DISCIPLINE DESIGNATION
G = GENERAL
H = HAZARDOUS MATERIALS
S = STRUCTURAL
A = ARCHITECTURAL
M = MECHANICAL
E = ELECTRICAL

SHEET TYPE
0 = GENERAL
1 = PLANS
2 = ELEVATIONS
3 = SECTIONS
5 = DETAILS

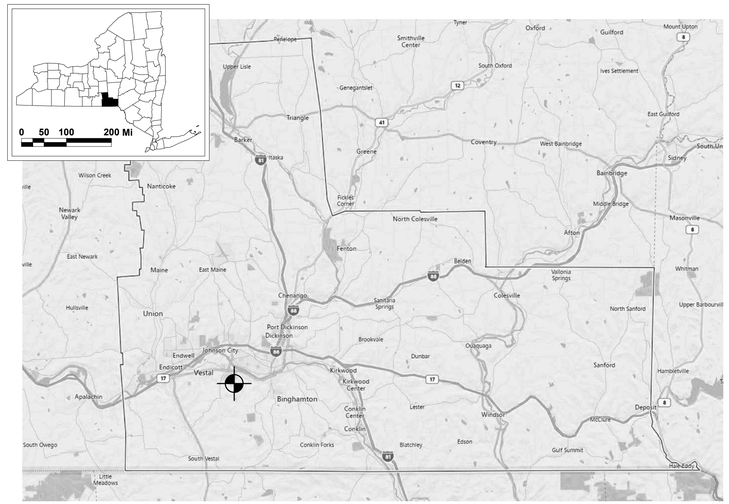
SHEET NUMBER: G - 0 0 1

NUMBERING CONVENTION

SHEET SEQUENCE NO.

DRAWING INDEX

NO.	SHEET TITLE
G-001	COVER
G-101	CODE DATA, WIND UPLIFT DESIGN CRITERIA, AND GENERAL NOTES
G-102	SITE PLAN AND STAGING
H-101	ADMINISTRATION BUILDING - HAZARDOUS MATERIALS ABATEMENT PLAN
H-102	HEALTH SERVICES BUILDING - HAZARDOUS MATERIALS ABATEMENT PLAN
S-001	ADMINISTRATION BUILDING - DESIGN DATA NOTES
S-002	ADMINISTRATION BUILDING - LOAD DIAGRAMS
S-003	ADMINISTRATION BUILDING - SPECIAL INSPECTION
S-011	HEALTH SERVICES BUILDING - DESIGN DATA NOTES
S-012	HEALTH SERVICES BUILDING - SPECIAL INSPECTION
S-110	HEALTH SERVICES BUILDING - PLANS
S-111	HEALTH SERVICES - PLANS CONT
S-300	ADMINISTRATION BUILDING - DETAILS
S-310	HEALTH SERVICES BUILDING - DETAILS
A-101	ADMINISTRATION BUILDING - LOWER ROOF PLAN
A-102	ADMINISTRATION BUILDING - LOWER ROOF TAPERED INSULATION PLAN
A-103	ADMINISTRATION BUILDING - TOWER ROOF PLANS
A-104	ADMINISTRATION BUILDING - REFLECTED CEILING PLANS AND DETAILS
A-105	HEALTH SERVICES BUILDING - ROOF PLANS
A-106	HEALTH SERVICES BUILDING - REFLECTED CEILING PLANS
A-201	ADMINISTRATION BUILDING - ELEVATIONS
A-301	ADMINISTRATION BUILDING - WALL SECTION
A-501	ADMINISTRATION BUILDING - DETAILS
A-502	ADMINISTRATION BUILDING - DETAILS
A-503	ADMINISTRATION BUILDING - DETAILS
A-504	ADMINISTRATION BUILDING - DETAILS
A-505	ADMINISTRATION BUILDING - DETAILS
A-506	HEALTH SERVICES BUILDING - MAIN ROOF DETAILS
A-507	HEALTH SERVICES BUILDING - PENTHOUSE DETAILS
A-508	HEALTH SERVICES BUILDING - PENTHOUSE DETAILS
A-509	HEALTH SERVICES BUILDING - DETAILS
A-510	HEALTH SERVICES BUILDING - DETAILS
M-001	MECHANICAL NOTES AND SYMBOLS
MD-101	MECHANICAL ADMINISTRATION BUILDING LOWER ROOF REMOVAL PLAN
MD-102	MECHANICAL ADMINISTRATION BUILDING TOWER ROOF REMOVAL PLAN
MD-103	MECHANICAL ADMINISTRATION BUILDING 2ND &TH FLOOR DEMOLITION PLAN
MD-104	MECHANICAL HEALTH SERVICES BUILDING ROOF REMOVAL PLAN
MD-105	MECHANICAL HEALTH SERVICES BUILDING MAIN LEVEL REMOVAL PLAN
M-101	MECHANICAL ADMINISTRATION BUILDING LOWER ROOF PLAN
M-102	MECHANICAL ADMINISTRATION BUILDING TOWER ROOF PLAN
M-103	MECHANICAL ADMINISTRATION BUILDING 2ND &TH FLOOR PLANS
M-104	MECHANICAL HEALTH SERVICES BUILDING ROOF PLAN
M-105	MECHANICAL HEALTH SERVICES BUILDING MAIN LEVEL PLAN
M-500	MECHANICAL DETAILS AND CONTROLS
M-600	MECHANICAL SCHEDULES
E-001	ELECTRICAL NOTES, ABBREVIATIONS, AND SYMBOLS
ED-101	ELECTRICAL ADMINISTRATION BUILDING LOWER ROOF REMOVAL PLAN
ED-102	ELECTRICAL ADMINISTRATION BUILDING TOWER ROOF REMOVAL PLAN
ED-103	ELECTRICAL ADMINISTRATION BUILDING 2ND FLOOR REMOVAL PLAN
ED-104	ELECTRICAL HEALTH SERVICES BUILDING ROOF REMOVAL PLAN
ED-105	ELECTRICAL HEALTH SERVICES BUILDING MAIN LEVEL REMOVAL PLAN
E-101	ELECTRICAL ADMINISTRATION BUILDING LOWER ROOF PLAN
E-102	ELECTRICAL ADMINISTRATION BUILDING TOWER ROOF PLAN
E-103	ELECTRICAL ADMINISTRATION BUILDING SECOND FLOOR PLAN
E-104	ELECTRICAL HEALTH SERVICES BUILDING ROOF PLAN
E-105	ELECTRICAL HEALTH SERVICES BUILDING MAIN LEVEL PLAN
E-500	ELECTRICAL DETAILS
E-600	ELECTRICAL SCHEDULES



PROJECT NORTH

LOCATION MAP



PROJECT NORTH

SITE PLAN

bell & spina
ARCHITECTS
215 Wyoming Street
Suite 201
Syracuse, NY 13204
Tel (315) 488 - 0377
Fax (315) 487 - 5947
1163 Pittsford-Victor Rd
Suite 200
Pittsford, NY 14534
Tel (585) 200 - 5038
Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

PROJECT#: 071108-00

BID DOCUMENTS

11/02/2026

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY

BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

SET NUMBER:

Ambient Environmental, Inc.
Building Science and EHS Solutions
828 Washington Avenue, Albany, NY 12203
PH: 518.482.0704 FX:518.482.0750
www.ambient-env.com

Company and Designer
Asbestos License

Ambient Environmental, Inc.
License No. 29608
Kevin A. Jones
Cert. No. 24-6LTTH-SHAB

POPLI DESIGN GROUP
450 West Kirkpatrick Street • Syracuse, NY 13204
main: 315.463.4540 • fax: 315.463.4573

STATE OF NEW YORK WILLIAM F. POPLI 085491 LICENSED PROFESSIONAL ENGINEER
Expires: 10/31/2028

RYAN BIGGS CLARK DAVIS
ENGINEERING, DPC
1326 New Seneca Turnpike, Suite B3
Skaneateles, NY 13152 p.315.685.4732
www.ryanbiggs.com

STATE OF NEW YORK AMY L. DAVIS 072958 LICENSED PROFESSIONAL ENGINEER

These plans and specifications were prepared by Bell & Spina P.C. Architects / Planners, Syracuse, New York 13204, and to the best of this Office's knowledge, information and belief, said plans and specifications meet the requirements of the 2025 New York State Uniform Building Code and 2025 New York State Energy Conservation Code (Title 19 NYCRR – NYS Uniform Fire Prevention and Building Code and NYS Energy Conservation Construction Code).

After visiting the site of the work and fully informing themselves as to all existing conditions and limitations, each bidder is required to notify the office of the Architect, in writing, prior to the bidding, of any existing conditions shown on the drawings that have been changed and would prevent the intended installation of new work.

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter on item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer and/or Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

To the best of my knowledge, information, and belief, the construction documents for this project are in conformance with the Building Code of New York State and Energy Conservation Construction Code and all other applicable Federal and State laws and regulations, all as currently amended.

REGISTERED ARCHITECT DOUGLAS K. AHEMA 032659 STATE OF NEW YORK
REGISTRATION EXPIRES: 08/31/2028

8/4/2026 2:13:27 PM

BUILDING CODE SUMMARY

APPLICABLE CODE STATEMENT: THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE (UNIFORM CODE). CONSTRUCTION SHALL CONFORM TO CURRENT EDITIONS OF THE 2025 BUILDING CODE OF NEW YORK STATE, THE 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AS WELL AS ALL OTHER CURRENT LOCAL, STATE AND FEDERAL CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONALS KNOWLEDGE INFORMATION, BELIEF AND PROFESSIONAL JUDGEMENT THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 UNIFORM CODE.

ADMINISTRATION BUILDING

GENERAL CODE INFORMATION					Reference
	Applicable Codes				
	2025 Building Code of New York State				BCNYS
	2025 Existing Building Code of New York State				EBCNYS
	2025 Plumbing Code of New York State				PCNYS
	2025 Mechanical Code of New York State				MCNYS
	2025 Fuel Gas Code Code of New York State				FGCNYS
	2025 Fire Code of New York State				FCNYS
	2025 Property Maintenance Code of New York State				PMCNYS
	2025 Energy Conservation Construction Code of New York State				ECCCNYS
	2025 ASHRAE 90.1				
1	**Occupancy Classification and Use**				**Reference**
	Business Group B				BCNYS 304
	- Includes offices and Conference rooms				
2	**General Building Heights and Areas**	**Required**	**Provided**		**Reference**
	Allowable Building Height (B Occupancy)	160'	89', NO CHANGE		BCNYS Table 504.3
	Allowable Number of Stories (B Occupancy)	11	9 STORIES, NO CHANGE		BCNYS Table 504.4
	Allowable Area	UNLIMTED	NO CHANGE		BCNYS 506.2.2
3	**Types of Construction**	**Required**	**Provided**		**Reference**
	Construction Classification		TYPE- IB		BCNYS 602
	Fire-resistance Rating Requirements for Building Elements - Hours				BCNYS Table 601
	Primary Structural Frame	NO CHANGE	NO CHANGE		
	Bearing Walls - Interior and Exterior	NO CHANGE	NO CHANGE		
	Nonbearing Walls - Interior and Exterior	NO CHANGE	NO CHANGE		
	Floor Construction	NO CHANGE	NO CHANGE		
	Roof Construction	NO CHANGE	NO CHANGE		
	Fire-Resistance Rating Requirements for Exterior Wall				
	Separation greater than 30'-0"	NO CHANGE	NO CHANGE		BCNYS Table 602
4	**Means of Egress**	**Required**	**Provided**		**Reference**
	Guards (Height)	NO CHANGE	NO CHANGE		BCNYS 1015.3

ENERGY CODE INFORMATION					Reference
	Applicable Codes				
	2025 Building Code of New York State				BCNYS
	2025 Energy Conservation Code of New York				ECCNYS
C3	**General Requirements**				**Reference**
	Climate Zone	BROOME COUNTY	5		ECCNYS Table C301.1 (1)
C4	**Commercial Energy Efficiency**		**Required**	**Provided**	**Reference**
	Opaque Thermal Envelope Requirements				
	Roof Assembly - Insulation entirely above Deck		R-33 ci	R-33 ci	ECCNYS Table C402.1.3
	Walls Above Grade - Mass		R-14ci	R-15 ci	ECCNYS Table C402.1.3
	Walls Above Grade - Metal Framed		N/A	N/A	
	Walls Above Grade - Wood Framed and Other		N/A	N/A	ECCNYS Table C402.1.3
	Unheated Slab on Grade		N/A	N/A	ECCNYS Table C402.1.3
	Heated Slab on Grade		N/A	N/A	
	Opaque Doors - Nonswinging		N/A	N/A	ECCNYS Table C402.1.3
	Fenestration Requirements				
	Maximum U-Factor - Fixed Fenestration		N/A	N/A	ECCNYS Table C402.5
	Maximum U-Factor - Operable Fenestration		N/A	N/A	ECCNYS Table C402.5
	Maximum U-Factor - Entrance Doors		0.63	0.35	ECCNYS Table C402.5
	SHGC - PF < 0.2		N/A	N/A	ECCNYS Table C402.5
	0.2 < or equal PF < 0.5		N/A	N/A	ECCNYS Table C402.5
	PF > or equal 0.5		N/A	N/A	ECCNYS Table C402.5
	Skylight - Maximum U-Factor		N/A	N/A	ECCNYS Table C402.5
	Skylight - SHGC		N/A	N/A	ECCNYS Table C402.5
	Air Leakage - Thermal Envelope				
	Air Barrier		-	-	ECCNYS C402.6.2.3.1
	Windows		N/A	N/A	ECCNYS Table C402.5.2
	Sliding Doors		N/A	N/A	ECCNYS Table C402.5.2
	Swinging Doors		0.20	-	ECCNYS Table C402.5.2
	Curtain Walls		N/A	N/A	ECCNYS Table C402.5.2
	Storefront Glazing		N/A	N/A	ECCNYS Table C402.5.2
	Commercially Glazed Entrance Doors		N/A	N/A	ECCNYS Table C402.5.2
	Garage Doors		N/A	N/A	ECCNYS Table C402.5.2
	Rolling Doors		N/A	N/A	ECCNYS Table C402.5.2

HEALTH SERVICES BUILDING

GENERAL CODE INFORMATION					Reference
	Applicable Codes				
	2025 Building Code of New York State				BCNYS
	2025 Existing Building Code of New York State				EBCNYS
	2025 Plumbing Code of New York State				PCNYS
	2025 Mechanical Code of New York State				MCNYS
	2025 Fuel Gas Code Code of New York State				FGCNYS
	2025 Fire Code of New York State				FCNYS
	2025 Property Maintenance Code of New York State				PMCNYS
	2025 Energy Conservation Construction Code of New York State				ECCCNYS
	2025 ASHRAE 90.1				
1	**Occupancy Classification and Use**				**Reference**
	Business Group B				BCNYS 304
	- Includes offices, patient rooms, storage and Conference room				
2	**General Building Heights and Areas**	**Required**	**Provided**		**Reference**
	Allowable Building Height (B Occupancy)	55'	40', NO CHANGE		BCNYS Table 504.3
	Allowable Number of Stories (B Occupancy)	4	3 STORIES, NO CHANGE		BCNYS Table 504.4
	Allowable Area	57,000 SF	21,837 SF		BCNYS 506.2.2
3	**Types of Construction**	**Required**	**Provided**		**Reference**
	Construction Classification		TYPE- IIIB		BCNYS 602
	Fire-resistance Rating Requirements for Building Elements - Hours				BCNYS Table 601
	Primary Structural Frame	NO CHANGE	NO CHANGE		
	Bearing Walls - Interior and Exterior	NO CHANGE	NO CHANGE		
	Nonbearing Walls - Interior and Exterior	NO CHANGE	NO CHANGE		
	Floor Construction	NO CHANGE	NO CHANGE		
	Roof Construction	NO CHANGE	NO CHANGE		
	Fire-Resistance Rating Requirements for Exterior Wall				
	Separation greater than 30'-0"	NO CHANGE	NO CHANGE		BCNYS Table 602
4	**Means of Egress**	**Required**	**Provided**		**Reference**
	Guards (Height)	NO CHANGE	NO CHANGE		BCNYS 1015.3

ENERGY CODE INFORMATION					Reference
	Applicable Codes				
	2025 Building Code of New York State				BCNYS
	2025 Energy Conservation Code of New York				ECCNYS
C3	**General Requirements**				**Reference**
	Climate Zone	BROOME COUNTY	5		ECCNYS Table C301.1 (1)
C4	**Commercial Energy Efficiency**		**Required**	**Provided**	**Reference**
	Opaque Thermal Envelope Requirements				
	Roof Assembly - Insulation entirely above Deck		R-33 ci	R-33 ci	ECCNYS Table C402.1.3
	Walls Above Grade - Mass		R-19 & R-5ci	R-21 & R-5 ci	ECCNYS Table C402.1.3
	Walls Above Grade - Metal Framed		N/A	N/A	
	Walls Above Grade - Wood Framed and Other		N/A	N/A	ECCNYS Table C402.1.3
	Unheated Slab on Grade		N/A	N/A	ECCNYS Table C402.1.3
	Heated Slab on Grade		N/A	N/A	
	Opaque Doors - Nonswinging		N/A	N/A	ECCNYS Table C402.1.3
	Fenestration Requirements				
	Maximum U-Factor - Fixed Fenestration		N/A	N/A	ECCNYS Table C402.5
	Maximum U-Factor - Operable Fenestration		N/A	N/A	ECCNYS Table C402.5
	Maximum U-Factor - Entrance Doors		N/A	N/A	ECCNYS Table C402.5
	SHGC - PF < 0.2		N/A	N/A	ECCNYS Table C402.5
	0.2 < or equal PF < 0.5		N/A	N/A	ECCNYS Table C402.5
	PF > or equal 0.5		N/A	N/A	ECCNYS Table C402.5
	Skylight - Maximum U-Factor		0.48	0.35	ECCNYS Table C402.5
	Skylight - SHGC		0.38	0.38	ECCNYS Table C402.5
	Air Leakage - Thermal Envelope				
	Air Barrier		-	-	ECCNYS C402.6.2.3.1
	Windows		N/A	N/A	ECCNYS Table C402.5.2
	Sliding Doors		N/A	N/A	ECCNYS Table C402.5.2
	Swinging Doors		N/A	N/A	ECCNYS Table C402.5.2
	Curtain Walls		N/A	N/A	ECCNYS Table C402.5.2
	Storefront Glazing		N/A	N/A	ECCNYS Table C402.5.2
	Commercially Glazed Entrance Doors		N/A	N/A	ECCNYS Table C402.5.2
	Garage Doors		N/A	N/A	ECCNYS Table C402.5.2
	Rolling Doors		N/A	N/A	ECCNYS Table C402.5.2
	Skylights w/ condenssation weepage control		0.20	-	ECCNYS Table C402.5.2

ADMINISTRATION BUILDING

COOLING TOWER SCOPE OF WORK

TRADE	DISCONNECT SCOPE	TEMPORARY MEASURES	RECONNECTION SCOPE
MECHANICAL	SHUT DOWN COOLING TOWER SYSTEM IN ACCORDANCE WITH OWNER'S REQUIREMENTS. DISCONNECT AND REMOVE ASSOCIATED PIPING WHERE INDICATED ON M0-102. DRAIN PIPING SECTIONS AS REQUIRED FOR DISCONNECTION.	CAP OPEN PIPING. PROVIDE TEMPORARY SUPPORTS FOR REMAINING PIPING. PROTECT EQUIPMENT FROM WEATHER AND DEBRIS.	RECONNECT EXISTING PIPING AND PROVIDE PIPING WHERE INDICATED ON M-102. REPLACE GASKETS, INSULATION, FITTINGS, AND SUPPORTS AS REQUIRED. REFILL SYSTEM, VENT AIR, BALANCE FLOWS AS REQUIRED, AND RETURN SYSTEM TO OPERATION.
ELECTRICAL	LOCKOUT/TAGOUT POWER TO COOLING TOWER AND ASSOCIATED EQUIPMENT. DISCONNECT CONDUIT, CONTROL WIRING, AND POWER WIRING REQUIRED FOR EQUIPMENT MOVEMENT OR PIPING REMOVAL.	SECURE DISCONNECTED CONDUCTORS AND WEATHERPROOF EXPOSED RACEWAYS	RECONNECT ALL POWER AND CONTROL WIRING. VERIFY PROPER AMPERAGE, VOLTAGE, CONTROLS, ALARMS, AND SAFETIES.
CONTROLS	TAG AND DISCONNECT LOW VOLTAGE CONTROL WIRING/CONDUIT AS REQUIRED TO ALLOW FOR DUNNAGE WORK SHOWN ON S-DWGS AND ROOFING WORK SHOWN ON A-DWGS.	MAINTAIN SYSTEM INTEGRITY AND DOCUMENT EXISTING SETTINGS.	RECONNECT AND EXTEND CONTROL WIRING RECONFIGURE FOR BUILDING PENETRATIONS DUE TO FLASHINGS AND INSULATION THICKNESS. TEST SYSTEM FOR PROPER OPERATION.
ROOFING	COORDINATE REQUIRED CLEARANCE DIMENSIONS WITH MECHANICAL CONTRACTOR. REMOVE EXISTING FLASHING AND WALL TERMINATION MATERIALS.	PROTECT ROOF SYSTEM FROM WEATHER DURING CONSTRUCTION.	INSTALL NEW BASE FLASHING AND COUNTER FLASHING AT INCREASED ELEVATION. RESTORE ROOF MEMBRANE AND SEAL ALL PENETRATIONS.
MASONRY	REMOVE AND REPLACE BRICK MASONRY TO INSTALL RAISED THRU-WALL FLASHING/RECEIVER REQUIRED TO ACCOMMODATE ROOF ASSEMBLY	PROTECT EXPOSED MASONRY	MORTAR REPAIRS
STRUCTURAL	STRUCTURAL SHORE COOLING TOWER AND REMOVE THE DETERIORATED SUPPORT BEAM	PREP AREA OF DETERIORATION AT INTERSECTING STRUCTURE	INSTALL THE NEW SUPPORT BEAM AND REMOVE SHORING
PAINTING	ERECT DUST CONTAINMENT ENCLOSURE. PREP EXISTING STRUCTURAL STEEL FOR NEW PAINT SYSTEM		COMPLETE APPLICATION OF PAINT NEW SYSTEM

* ALL COOLING WORK THAT REQUIRES SHUTDOWN SHALL BE COMPLETED DURING SHOULDER SEASONS OCTOBER 1ST TO MAY 31ST
** COOLING TOWER WORK EFFECTING OPERATION ONCE BEGUN MUST BE EXPEDITIOUSLY COMPLETED.
*** COORDINATE ALL SHUTDOWNS WITH THE CAMPUS AND PROVIDED 48 HRS ADVANCED NOTICE.

ROOF DESIGN WIND UPLIFT NOTES

1. DESIGN WIND UPLIFT PRESSURES ARE DERIVED IN ACCORDANCE WITH ASCE 7-22 AND/OR THE 2025 NYS UNIFORM FIRE PREVENTION AND BUILDING CODE.
2. WIND PRESSURES ARE CONSERVATIVELY BASED ON AN EFFECTIVE COMPONENT & CLADDING AREA OF 10 SQUARE FEET OR LESS. PRESSURES ARE APPLIED NORMAL TO THE SURFACE OF THE COMPONENT OR CLADDING.
3. THE ROOFING MANUFACTURER SHALL PROVIDE A TOTAL SYSTEM CAPABLE OF RESISTING THE WIND UPLIFT PRESSURES AT THE DEPICTED LOCATIONS, APPLYING A MINIMUM 2.0x FACTOR OF SAFETY.
4. THE MANUFACTURER OF METAL EDGE COMPONENTS FOR THE ROOF PERIMETER SHALL PROVIDE SYSTEMS CAPABLE OF RESISTING THE WIND UPLIFT PRESSURES AT THE DEPICTED LOCATIONS, APPLYING A MINIMUM 1.67x FACTOR OF SAFETY.
5. MISCELLANEOUS FASTENERS ANCILLARY TO THE PROPRIETARY SYSTEMS OF THE ROOFING AND METAL EDGE COMPONENT MANUFACTURERS SHALL BE CAPABLE OF RESISTING THE WIND UPLIFT PRESSURES AT THE DEPICTED LOCATIONS, APPLYING A MINIMUM 4.0x FACTOR OF SAFETY.
6. SEE S-SERIES DRAWINGS FOR WIND PRESSURES

bell & spina ARCHITECTS
215 Wyming Street, Suite 201, Syracuse, NY 13204, Tel (315) 488-0377, Fax (315) 487-5947
1163 Pittsford-Victor Rd, Suite 200, Pittsford, NY 14534, Tel (585) 200-5038, Fax (585) 487-9532
info@bellandspina.com
www.bellandspina.com

REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION
		BID DOCUMENTS

DRAWN	CHECKED
DRW	CHK
DATE	**SCALE**
11/02/2026	AS NOTED

SHEET TITLE
CODE DATA, WIND UPLIFT DESIGN CRITERIA, AND GENERAL NOTES

SHEET NUMBER
G-101

SHEET 2 OF 58

10/28/2026 1:40:07 PM ZACH HOOKER

SITE GENERAL NOTES:

1. CONTRACTOR PARKING:
   - 1.1. PARKING IS AVAILABLE ON SITE.
   - 1.2. ON-SITE CONTRACTOR PARKING IS LIMITED.
   - 1.3. CONTRACTOR PARKING IS AVAILABLE IN LOT G1 BY PERMIT. PERMITS ARE AVAILABLE FOR PURCHASE AT THE WELCOME CENTER LOCATED ON GLENN G. BARTLE DRIVE.

2. MATERIAL STAGING & LAYDOWN AREAS ARE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE FINAL CONTRACTOR STAGING AREA, ACCESS, PARKING, DELIVERY & STORAGE WITH OWNER'S REPRESENTATIVE PRIOR TO MOBILIZATION.
   - 2.1. CONTRACTOR TO PROVIDE A FLAGMAN TO DIRECT TRAFFIC WHEN ACCEPTING MATERIAL DELIVERIES OR EQUIPMENT MOVEMENT TO PROVIDE SAFE PASSAGE TO CONSTRUCTION AREAS. TEMPORARY ROAD CLOSURES MUST BE COORDINATED IN ADVANCE. MAINTAIN ROAD ACCESS WIDTH IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS BUT NOT LESS THAN 14'-0" WIDE.

3. CONTRACTOR SHALL BARRICADE, IN THE FORM OF A 8'-0" HIGH CHAIN LINK FENCE, THE PERIMETER OF ALL STAGING AREAS TO PREVENT PUBLIC ACCESS. THE BARRICADE SHALL HAVE A LOCKABLE 12'-0" WIDE DOUBLE GATE.
   - 3.1. PROVIDE TEMPORARY WAYFINDING AND CONSTRUCTION CAUTION SIGNAGE TO DIRECT PEDESTRIAN TRAFFIC AROUND BUILDING TO AVAILABLE ENTRANCES; SIGNAGE SIZE: 12"X 24", COROPLAST BOARD OR OTHER APPROVED MATERIAL MOUNTED TO TEMPORARY CONSTRUCTION FENCE WITH HEAVY DUTY NYLON CABLE TIES THROUGH (4) EYELETS AT CORNERS.
   - 3.2. PROVIDE INTERIOR SIGNAGE AND THROUGHOUT THE BUILDING DIRECTING PEDESTRIAN TRAFFIC AS NEEDED BASED ON TEMPORARY STAGING TO ALTERNATE EXIT LOCATIONS.
   - 3.3. PROVIDE RUBBER PARKING WHEEL BLOCKS AT ALL ADJACENT PARKING SPACES ABUTTING THE FENCING TO PROTECT FROM IMPACT.
   - 3.4. PROVIDE FENCE SCREENING MOUNTED ON THE INSIDE OF THE FENCE AROUND THE PERIMETER OF ALL STAGING AREAS AND TEMPORARY CONSTRUCTION FENCES. COLOR BLACK.
   - 3.5. FENCE POSTS LOCATED IN GRASS AREAS MAY BE DRILLED. POSTS AND BASE OF FENCE ON IMPERVIOUS SURFACES TO BE BALLASTED WITH OUTRIGGERS ADEQUATELY DESIGNED TO WITHSTAND WIND LOADS FROM OVERTURNING THE FENCE. CALL UFPO DIG SAFELY TO SURVEY AND MARK AREA FOR UTILITIES.

4. SITE PLAN INFORMATION IS BASED ON RECORD INFORMATION PROVIDED. NOT ALL EXISTING UTILITIES, TREES, LANDSCAPING, SIDEWALKS, PAVEMENTS, EQUIPMENT, FIXTURES AND TOPOGRAPHIC INFORMATION MAY BE SHOWN. CONTRACTOR SHALL FIELD VERIFY AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. REPAIR AND RESTORE ANY DAMAGE TO EXISTING CONSTRUCTION AND SITE WORK RESULTING FROM THE WORK OF THIS PROJECT INCLUDING BUT NOT LIMITED TO: GRASSED OR LANDSCAPED AREAS, CURBS, WALKWAYS, CATCH BASINS, PAVEMENT, ETC. CAUSED BY THE WORK OF THIS PROJECT. REPAIRS ARE TO MATCH ORIGINAL/ADJACENT SURFACES UNLESS NOTED OTHERWISE. CONTRACTOR TO TAKE PHOTOGRAPHS OF SITE PRIOR TO START OF WORK AND SUBMIT TO OWNER'S REPRESENTATIVE [DIRECTORS REPRESENTATIVE].

5. EXTERIOR EGRESS PATHS, WALKWAYS AND ENTRANCES SHALL REMAIN UNOBSTRUCTED AND PROTECTED. REFER TO CONSTRUCTION SAFEGUARD NOTES ON G-101. PROVIDE ALTERNATE CIRCULATION AS NEEDED TO ACCESS THE WORK.

CONSTRUCTION SAFEGUARDS NOTES:

1. PEDESTRIANS AND EGRESS PATHWAYS SHALL REMAIN UNOBSTRUCTED AND PROTECTED DURING THE WORK. COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:
   - 1.1. OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
   - 1.2. 2025 BUILDING CODE OF NYS, CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION
   - 1.3. 2025 EXISTING BUILDING CODE OF NYS, CHAPTER 15 CONSTRUCTION SAFEGUARDS.
   - 1.4. 2025 FIRE CODE OF NYS, CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

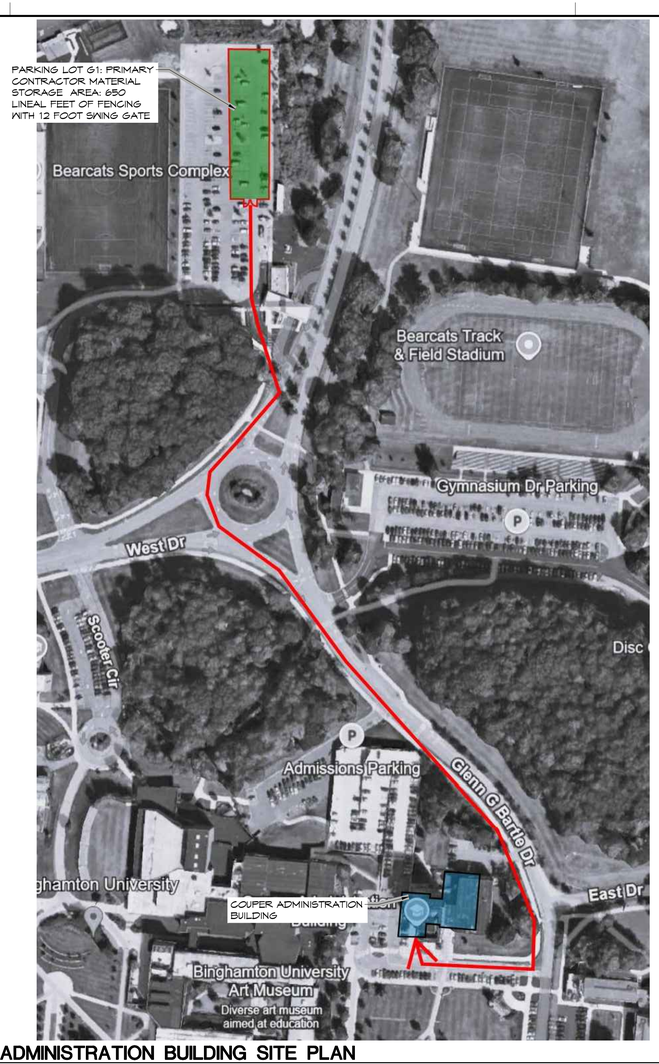
3. THE BUILDING WILL BE OCCUPIED DURING THE CONSTRUCTION PERIOD. PROVIDE OVERHEAD PROTECTION AT ALL INGRESS/ EGRESS DOORS (ENTRANCES, OVERHEAD DOORS AND EXIT DOORS) IN THE VICINITY OF THE WORK AREA AND MAINTAIN FOR THE DURATION OF THE WORK AS FOLLOWS:
   - A. PROVIDE APPROPRIATE OVERHEAD SCAFFOLDING/BRIDGING FOR OCCUPANTS ENTERING AND EXITING THE BUILDING TO PROTECT FROM FALLING DEBRIS DURING THE WORK. SUCH SCAFFOLDING MAY ALSO DOUBLE FOR CONTRACTOR ACCESS TO THE WORK. STORAGE OF MATERIALS ON SCAFFOLDING SHALL ONLY BE PERMITTED IF THE SYSTEM IS DESIGNED AND ENGINEERED FOR MATERIAL STORAGE.
   - B. CONSTRUCT SYSTEM IN ACCORDANCE WITH NYS UNIFORM FIRE PREVENTION AND BUILDING CODE AND OSHA REGULATIONS.
   - C. WHERE SUBJECT TO IMPACT FROM VEHICLES OR EQUIPMENT, PROVIDE BARRIERS TO PROTECT THE SYSTEMS FROM IMPACT.
   - D. POST TEMPORARY SIGNAGE ON THE PROTECTION COMPONENTS INDICATING ROOF CONSTRUCTION WORK.
   - E. PROVIDE A MINIMUM 1 FOOTCANDLE (Fc) TEMPORARY CONSTRUCTION LIGHTING AT DOOR LOCATIONS BELOW OVERHEAD PROTECTION SCAFFOLDING.
   - F. SUCH SYSTEMS SHALL BE PREPARED, DESIGNED AND STAMPED BY A NYS LICENSED PROFESSIONAL ENGINEER AND SUBMITTED FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE. INCLUDE THE OVERHEAD PROTECTION SYSTEM AS PART OF THE SUBMITTED SAFETY PLAN.
   - G. REPAIR/ RESTORE SYSTEM ANCHORAGE OR ATTACHMENT POINTS ON THE BUILDING.

2. PROVIDE TEMPORARY CONSTRUCTION BARRIERS AT OTHER AREAS AROUND THE WORK AREA TO PROTECT PEDESTRIANS IN ACCORDANCE WITH THE FOLLOWING:

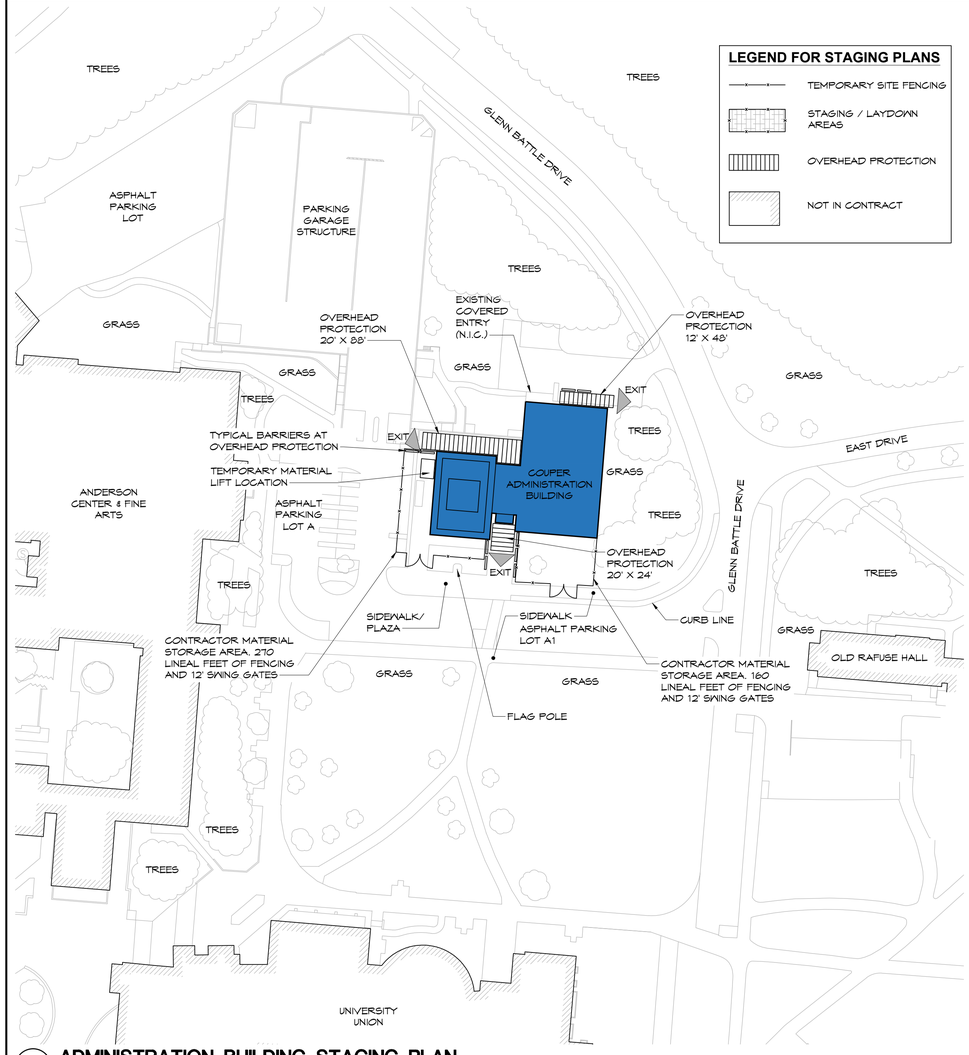
PROTECTION OF PEDESTRIANS

HEIGHT OF CONSTRUCTION	DISTANCE OF CONSTRUCTION TO LOT LINE OR WALKWAY	TYPE OF PROTECTION REQUIRED
MORE THAN 8 FEET	LESS THAN 5 FEET	BARRIER AND OVERHEAD PROTECTION
	5 FEET OR MORE, BUT NOT MORE THAN ONE-FOURTH THE HEIGHT OF CONSTRUCTION	BARRIER AND OVERHEAD PROTECTION
	5 FEET OR MORE, BUT BETWEEN ONE-FOURTH AND ONE-HALF THE HEIGHT OF CONSTRUCTION	BARRIER
	5 FEET OR MORE, BUT EXCEEDING ONE-HALF THE HEIGHT OF CONSTRUCTION	NONE (FENCE)

PROVIDE OVERHEAD PROTECTION AT ENTRANCE/ EXIT COMPLYING WITH BCNYS CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION AND EBCNYS CHAPTER 15 CONSTRUCTION SAFEGUARDS.



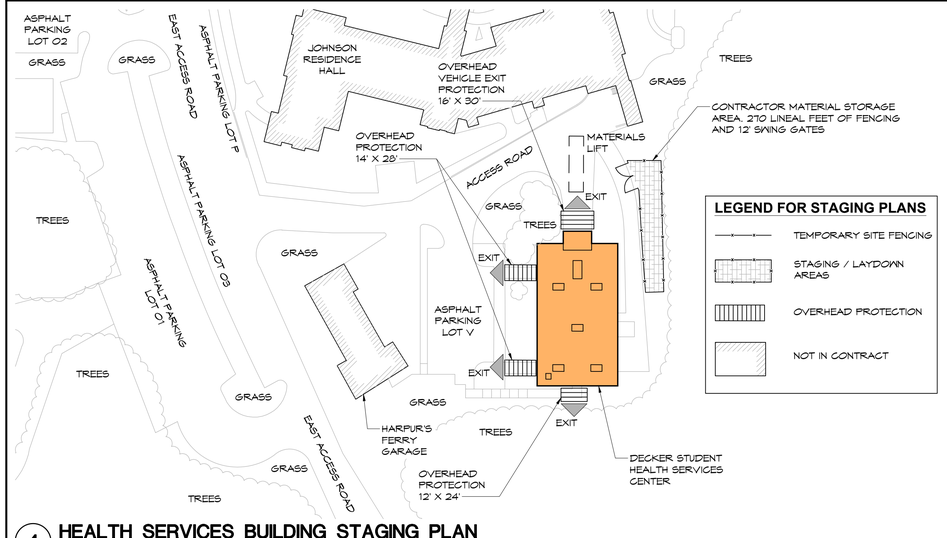
1 ADMINISTRATION BUILDING SITE PLAN
SCALE: NOT TO SCALE



2 ADMINISTRATION BUILDING STAGING PLAN
SCALE: 1/64" = 1'-0"



3 HEALTH SERVICES BUILDING SITE PLAN
SCALE: NOT TO SCALE



4 HEALTH SERVICES BUILDING STAGING PLAN
SCALE: 1/64" = 1'-0"

bell & spina ARCHITECTS
215 Wyoming Street, Syracuse, NY 13204
Tel (315) 488 - 0377 Fax (315) 487 - 5947
180-C Pittsford-Victor Rd, Pittsford, NY 14534
Tel (585) 203 - 3035 Fax (585) 487 - 5932
info@bellandspina.com
www.bellandspina.com

REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK
REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
SITE PLAN AND STAGING

SHEET NUMBER
G-102
SHEET 3 OF 58

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GENERAL NOTES:

1. THE PROJECT INVOLVES THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM) AND PCB CONTAINING MATERIALS FROM THE BINGHAMTON UNIVERSITY, ADMINISTRATION BUILDING AND HEALTH SERVICES ROOFS, BINGHAMTON, NY.

   THE FOLLOWING MATERIALS THAT ARE SCHEDULED FOR REMOVAL TESTED POSITIVE FOR ACM:
   WHITE WINDOW CAULK AT ADMINISTRATION BUILDING TOWER

   THE FOLLOWING MATERIALS THAT ARE SCHEDULED FOR REMOVAL ARE ASSUMED POSITIVE FOR ACM:
   ROOF DRAIN MUDDED FITTINGS AT ADMINISTRATION BUILDING

   THE FOLLOWING MATERIALS THAT ARE SCHEDULED FOR REMOVAL TESTED POSITIVE FOR PCB'S:
   GRAY PENTHOUSE LOUVER CAULK AT HEALTH SERVICES BUILDING
   BROWN PENTHOUSE WINDOW CAULK AT HEALTH SERVICES BUILDING

   REFER TO HAZARDOUS MATERIALS SURVEY REPORT DATED NOVEMBER 14, 2024 FOR SAMPLE LOCATIONS AND TEST RESULTS.

2. SEE SPECIFICATION SECTION 02 82 13 FOR ASBESTOS ABATEMENT.

3. SEE SPECIFICATION SECTION 02 84 13 FOR PCB CAULK REMOVAL.

4. LEAD BASED PAINT IS PRESENT ON PAINTED COMPONENTS INCLUDING, BUT NOT LIMITED TO, RED PAINT ON VENT LOCATED ON ADMINISTRATION BUILDING, AND BLACK LINTELS ON HEALTH SERVICES PENTHOUSE. SEE SPECIFICATION SECTION 02 83 13 FOR HANDLING OF LEAD CONTAINING MATERIALS.

5. THE HAZARDOUS MATERIALS SURVEY REPORT AND DRAWINGS LIST APPROXIMATE QUANTITIES FOR IDENTIFIED HAZARDOUS MATERIALS. THIS IS MEANT TO AID THE CONTRACTOR IN BIDDING BUT DOES NOT RELIEVE THE CONTRACTOR FROM PERFORMING THEIR OWN TAKE OFF AND FORMING THEIR OWN OPINION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ABATEMENT QUANTITIES INCLUDING, SIZES, LENGTHS, SQUARE FOOTAGES AND CONFIGURATIONS. ANY POTENTIAL DISCREPENCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID.

6. THIS FACILITY WILL BE OCCUPIED DURING CONSTRUCTION WORK.

7. SHUT DOWN AND ISOLATE EXISTING MECHANICAL EQUIPMENT SYSTEMS TO PREVENT CONTAMINATION AND DISPERSAL TO OTHER AREAS IN THE BUILDING. COORDINATE WITH THE OWNER'S REPRESENTATIVE.

8. ALL SCHEDULED ABATEMENT WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. FOLLOW ALL RULES AND REGULATIONS OF NYS ICR 56, EPA, OSHA AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS DURING THE ENTIRE PROJECT.

9. AFTER THE PRE-WORK CONFERENCE, PROVIDE A DETAILED ABATEMENT WORK PLAN FOR REVIEW.

10. CONTRACTOR IS RESPONSIBLE FOR ON-SITE SAFETY AND SECURITY OF HIS/HER EMPLOYEES DURING ALL HAZARDOUS REMOVAL ACTIVITIES. CONTRACTOR ALSO ASSUMES RESPONSIBILITY FOR PROCEEDING WITH THE WORK IN A MANNER THAT OFFERS THEIR EMPLOYEES A WORKPLACE FREE FROM HAZARDS CAUSING SERIOUS HEALTH, HARM OR INJURY.

11. PROVIDE TO THE OWNER'S REPRESENTATIVE ALL WASTE TRANSPORTER PERMITS, WASTE DISPOSAL RECEIPTS AND THE CONTRACTORS POST ABATEMENT REPORT. SEE THE CLOSEOUT SUBMITTAL SECTION IN EACH OF THE ABATEMENT SPECIFICATION SECTIONS FOR DETAILS.

12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LANDFILL DOES ACCEPT ALL OF THE TYPES OF HAZARDOUS MATERIALS WITHIN PROJECTS SCOPE OF WORK.

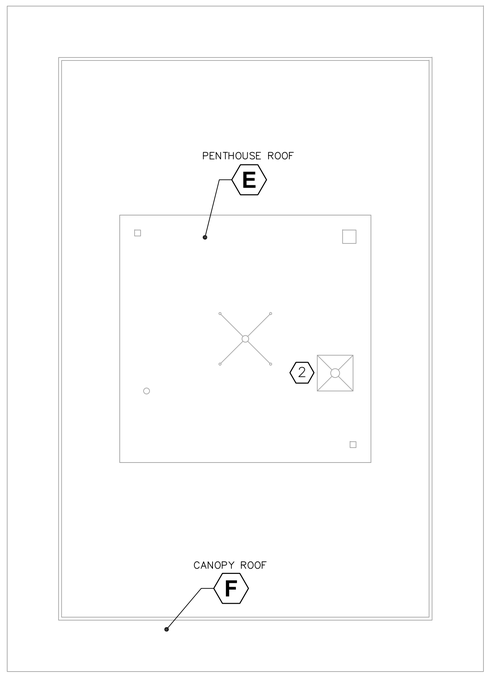
13. ANY REMOVAL WORK OR ANY OTHER WORK IN THESE AREAS SHALL COMMENCE ONLY AFTER THE HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETED AND ONLY AFTER THE NECESSARY CLEARANCES ARE OBTAINED.

14. UPON COMPLETION OF HAZARDOUS MATERIAL REMOVALS WORK, ANY EXISTING AREAS AND/OR FINISHES THAT HAVE BEEN DAMAGED THAT ARE NOT PART OF THE REMOVAL SCOPES OF WORK (INCLUDES AREAS AND/OR FINISHES AS A RESULT OF ANY TEMPORARY PARTITIONS AND WASTE DECON UNIT ENCLOSURES CONSTRUCTION) SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT CONTRACTORS EXPENSE. ORIGINAL CONDITION SHALL MEAN, AT A MINIMUM, THE CONDITION THAT EXISTED PRIOR TO THE START OF WORK BY THE CONTRACTOR OR NEW CONDITION WHERE REQUIRED. FINISH RESTORATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.

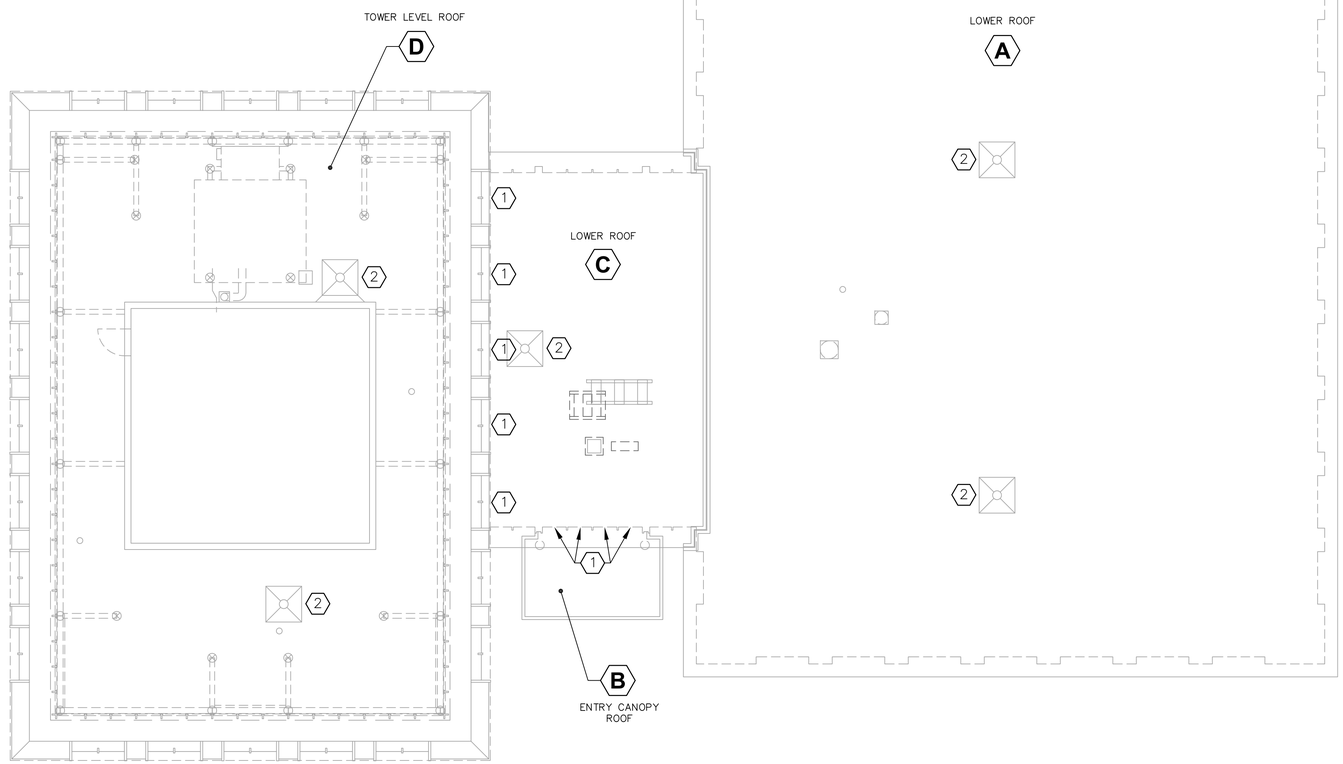
KEYED NOTES:

1. REMOVE THE ASBESTOS CONTAINING WHITE WINDOW CAULK FROM THE BOTTOM WINDOW PANEL AND ALL ADJACENT SURFACES IN THIS LOCATION.
2. REMOVE AND DISPOSE OF PRESUMED ASBESTOS CONTAINING MUDDED FITTING INSULATION AND 5 LINEAR FEET OF PIPE INSULATION FROM ROOF DRAIN BOWL AND ASSOCIATED PIPING AND ELBOWS IN THE BUILDING AT THIS LOCATION.

HAZARDOUS MATERIALS ABATEMENT SCHEDULE		
REMOVAL NOTES	**MATERIAL DESCRIPTION**	**ESTIMATED QUANTITY**
1	ACM WHITE WINDOW PANEL CAULK	100 LF OR 6.5 SF
2	ASSUMED ACM ROOF DRAIN MUDDED FITTING	7 EA



1 **ADMINISTRATION BUILDING - PENTHOUSE AND CANOPY ROOFS**
SCALE: 1/8" = 1'-0"



2 **ADMINISTRATION BUILDING - TOWER AND LOWER ROOFS**
SCALE: 1/8" = 1'-0"

10/27/2026 9:07:43 PM/KEVIN JONES

bell & spina ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204
Tel (315) 488-0377 Fax (315) 487-5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
Tel (585) 200-5038 Fax (585) 487-9532
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Kevin A. Jones
Cert. No. 25-4LTH-SHAB

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PROJECT NORTH

CONSULTANT
Ambient Environmental, Inc. Building Science and EHS Solutions 83 Washington Avenue Albany, NY 12205 PH 518.482.0056 FX 518.482.0750 www.ambient-env.com

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
KAJ	JMV
DATE	**SCALE**
11/02/2026	AS NOTED

SHEET TITLE
ADMINISTRATION BUILDING - HAZARDOUS MATERIALS ABATEMENT PLAN

SHEET NUMBER
H-101
SHEET 4 OF 58

KEYED NOTES:

1. REMOVE THE PCB CONTAINING GRAY CAULK FROM THE LOUVER/DOOR AND SURROUNDING BRICK IN THIS LOCATION. HAND CLEAN ALL ADJACENT SURFACES AND DISPOSE OF WATER AND CLEANING MATERIALS AS BULK PCB PRODUCT WASTE. ALL CAULK/SEALANTS, AND ANY MASONRY SCHEDULED FOR DEMOLITION WITHIN 6 INCHES OF PCB CONTAINING CAULKS/SEALANTS SHALL BE DISPOSED OF AS BULK PCB PRODUCT WASTE. SEAL EXISTING MASONRY THAT WAS IN CONTACT WITH CAULK WITH CLEAR ELASTOMERIC COATING TO ENCAPSULATE ANY PCB'S THAT HAVE LEACHED INTO MASONRY.

2. REMOVE THE PCB CONTAINING BROWN CAULK FROM THE WINDOW AND SURROUNDING BRICK IN THIS LOCATION. HAND CLEAN ALL ADJACENT SURFACES AND DISPOSE OF WATER AND CLEANING MATERIALS AS BULK PCB PRODUCT WASTE. ALL CAULK/SEALANTS, AND ANY MASONRY SCHEDULED FOR DEMOLITION WITHIN 6 INCHES OF PCB CONTAINING CAULKS/SEALANTS SHALL BE DISPOSED OF AS BULK PCB PRODUCT WASTE. SEAL EXISTING MASONRY THAT WAS IN CONTACT WITH CAULK WITH CLEAR ELASTOMERIC COATING TO ENCAPSULATE ANY PCB'S THAT HAVE LEACHED INTO MASONRY.

3. REMOVE THE ASSUMED ASBESTOS CONTAINING VERMICULITE PLASTER CEILING IN THIS AREA AND STABILIZE THE REMAINING METERIAL.

4. REMOVE THE ORIGINAL CEMENT ASBESTOS CLADDING LOCATED UNDER THE VISIBLE SHEETMETAL FROM ALL FOUR SIDES OF ROOF MONITOR OR VENTILATOR.

HAZARDOUS MATERIALS ABATEMENT SCHEDULE

REMOVAL NOTES	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
1	GRAY PCB LOUVER/DOOR CAULK	32 LF OR 2 SF
2	BROWN PCB WINDOW CAULK	16 LF OR 1 SF
3	ASSUMED VERMICULITE PLASTER	70 SF
4	CEMENT ASBESTOS CLADDING	420 SF

GENERAL NOTES:

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   THE FOLLOWING MATERIALS THAT ARE SCHEDULED FOR REMOVAL ARE ASSUMED POSITIVE FOR ACM:
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   THE FOLLOWING MATERIALS THAT ARE SCHEDULED FOR REMOVAL TESTED POSITIVE FOR PCB'S:
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   BROWN PENTHOUSE WINDOW CAULK AT HEALTH SERVICES BUILDING

   REFER TO HAZARDOUS MATERIALS SURVEY REPORT DATED NOVEMBER 14, 2024 FOR SAMPLE LOCATIONS AND TEST RESULTS.

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9. AFTER THE PRE-WORK CONFERENCE, PROVIDE A DETAILED ABATEMENT WORK PLAN FOR REVIEW.

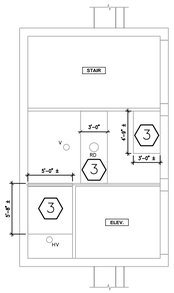
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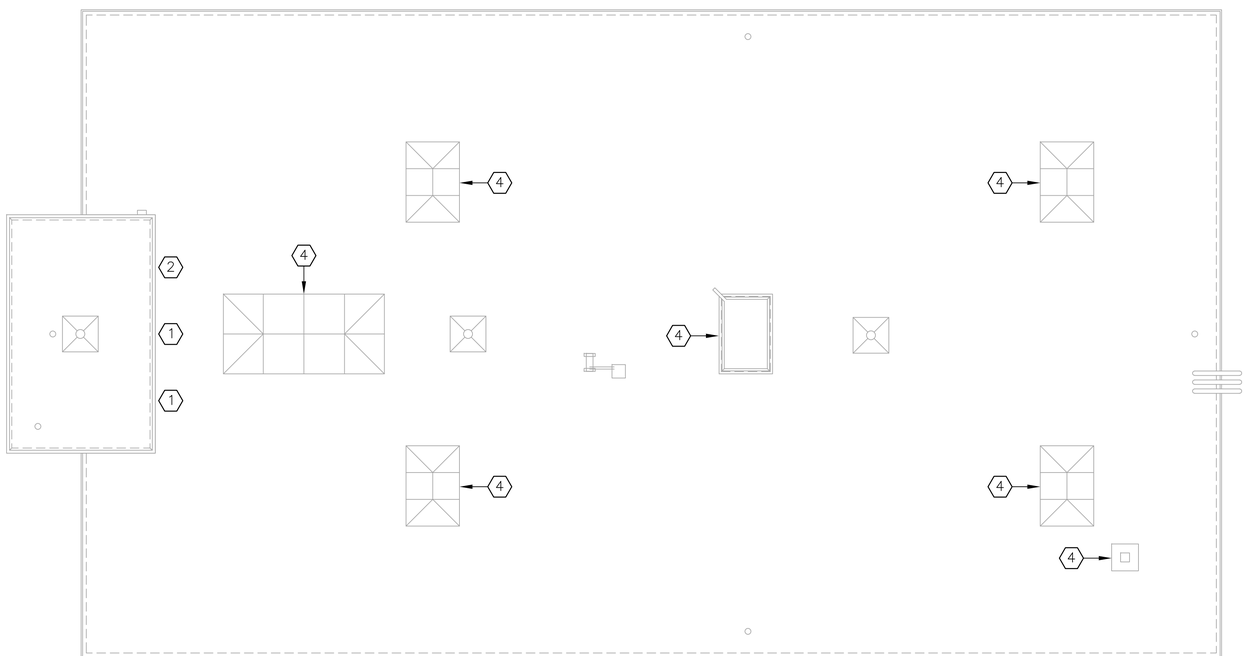
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2 HEALTH SERVICES BUILDING PENTHOUSE PLAN
SCALE: 1/8" = 1'-0"



1 HEALTH SERVICES BUILDING ROOF
SCALE: 1/8" = 1'-0"

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
KAJ	JMV

DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES BUILDING - HAZARDOUS MATERIALS ABATEMENT PLAN

SHEET NUMBER
H-102
SHEET 5 OF 58

10/27/2026 9:09:47 PM KEVIN.JONES

DESIGN DATA

DESIGN CODE:		2025 BUILDING CODE OF NEW YORK STATE (BCNYS)
RISK CATEGORY:		III
EXPOSURE CATEGORY:		C
SITE BASE ELEVATION:		1050 ft
SNOW & RAIN LOADS	GROUND SNOW LOAD (Pg):	77 psf (ULT), 54 psf (ASD)
	FLAT ROOF SNOW LOAD (Pf):	42 psf (ASD)
	EXPOSURE FACTOR (Ce):	1.0
	PRESUMED AVERAGE R VALUE (R):	34
	THERMAL FACTOR (Ct):	1.12
	RAIN LOAD (8.5 INCHES OF ACCUMULATION):	44 psf
	A CODE COMPLIANT SECONDARY DRAINAGE SYSTEM SHALL BE PROVIDED TO LIMIT THE ACCUMULATED DEPTH OF WATER TO AMOUNT NOTED OR LESS.	
	RAIN-ON-SNOW SURCHARGE LOAD:	NA
	DRIFTED, UNBALANCED, AND SLOPED ROOF SLIDING SNOW IN ACCORDANCE WITH ASCE 7-22. SEE S002 FOR SNOW LOADING DIAGRAM.	
WIND LOADS	MAIN WIND FORCE RESISTING SYSTEM HAS NOT BEEN EVALUATED. DESIGN DATA BELOW IN INTENDED SOLELY FOR DETERMINATION OF COMPONENT AND CLADDING LOADS FOR ROOFING AND ROOFTOP STRUCTURES.	
	ULTIMATE WIND SPEED (3-SECOND GUST) (Vult):	118 mph
	NOMINAL WIND SPEED (3-SECOND GUST) (Vasd):	71 mph
	TOPOGRAPHIC FACTOR (Kzt):	1.0
	HEIGHT OF MAIN ROOF:	LOW ROOF: AVG: 28', TOWER ROOF 106'
	SEE FOR ADDITIONAL WIND LOAD DATA FOR ROOFS, OVERHANGS, COMPONENTS AND CLADDING, ROOF-TOP STRUCTURES, CANOPIES, AND PARAPETS. NET UPLIFT LOAD ON ROOF FRAMING COMPONENTS SHALL BE DETERMINED BY DEDUCTING 25 psf DEAD LOAD FROM THE TABULATED ROOF WIND LOADS FOR COMPONENTS AND CLADDING. NET UPLIFT VALUE SHALL BE A MINIMUM OF 10 psf.	

CODE COMPLIANCE FOR EXISTING STRUCTURES

DESIGN CODE:	2025 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
COMPLIANCE METHOD:	WORK AREA
CLASSIFICATION OF WORK:	ALTERATION-LEVEL 1
EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENTS HAVE BEEN EVALUATED TO CARRY THE GRAVITY LOADS REQUIRED BY THE BCNYS FOR NEW STRUCTURES IF THE ALTERATION CAUSES AN INCREASE IN THE DESIGN DEAD, LIVE, OR SNOW LOAD, INCLUDING SNOW DRIFT EFFECTS, OF MORE THAN 5 PERCENT OR THE CAPACITY OF ANY EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENT IS DECREASED AS PART OF THE ALTERATION	
EXISTING LATERAL LOAD-CARRYING STRUCTURAL ELEMENTS ARE NO LESS CONFORMING TO THE PROVISIONS OF THE 2025 EBCNYS WITH RESPECT TO WIND AND SEISMIC DESIGN THAN THEY WERE PRIOR TO THIS WORK. THEREFORE, LATERAL LOADS HAVE NOT BEEN EVALUATED FOR THIS STRUCTURE.	

LOADING SCHEDULE

OCCUPANCY OR USE	SUPERIMPOSED DEAD LOAD (psf)	LIVE LOAD		LIVE LOAD REDUCTION
		UNIFORM (psf)	CONCENTRATED (lbs)	
METAL DECK ROOF	[16] (5)	20	300	NO
CONC SLAB ROOF	[16] (5)	20	300	NO

NOTES:
1. FLOORS HAVE BEEN DESIGNED TO SUPPORT THE UNIFORMLY DISTRIBUTED LIVE LOADS OR THE CONCENTRATED LIVE LOADS NOTED ABOVE, WHICHEVER PRODUCE THE GREATER LOAD EFFECTS.
2. CONCENTRATED LIVE LOAD: UNIFORMLY DISTRIBUTED OVER AN AREA 2.5 FEET SQUARE (6.25 SQUARE FEET) AND LOCATED SO AS TO PRODUCE THE MAXIMUM LOAD EFFECTS IN THE STRUCTURAL MEMBERS.
3. SUPERIMPOSED DEAD LOAD DOES NOT INCLUDE SELF-WEIGHT OF THE STRUCTURE (BEAMS, COLUMNS, SLABS, METAL DECK, ETC)
4. DO NOT SUSPEND CONCENTRATED LOADS FROM BARE METAL DECK OR EXISTING GYPSUM DECK.
5. SEE PLAN FOR LOCATIONS AND WEIGHTS OF LARGE EQUIPMENT. WEIGHT OF THIS EQUIPMENT IS IN ADDITION TO THE UNIFORM LOADS INDICATED ABOVE.

MATERIAL STRENGTHS TABLE

STRUCTURAL STEEL	
STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED, SEE SPECIFICATIONS. FOR CONNECTIONS PROVIDE HIGHER GRADE AS REQUIRED.	
ANCHOR RODS	ASTM F1554, GRADE 36 OR 55
HIGH-STRENGTH BOLTS	ASTM F3125, GRADE A325 OR A490, TYPE 1, PLAIN
ROLLED-STEEL ANGLES, S, M, ST AND MT SHAPES	ASTM A572 GRADE 50
ROLLED-STEEL PLATES AND BARS	ASTM A572 GRADE 50 [ASTM A36]
ROLLED-STEEL W, WT, C, MC SHAPES	ASTM A992
ROLLED-STEEL HP SHAPES	ASTM A572, GRADE 50
STEEL PIPE	ASTM A53, TYPE E OR S, GRADE B
HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE C
HEADED STUD ANCHOR	ASTM A108, TYPE B

GENERAL NOTES

1. THIS PROJECT INCLUDES STRUCTURAL MODIFICATIONS TO AN EXISTING BUILDING. EXISTING STRUCTURE REPRESENTED IN DRAWINGS IS BASED ON INFORMATION OBTAINED FROM AVAILABLE HISTORICAL DOCUMENTS OF ORIGINAL CONSTRUCTION , EXISTING STRUCTURE AND DIMENSIONS TO, OF, AND WITHIN THE EXISTING STRUCTURE SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS.
3. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
5. THE NOTES IN THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, SEQUENCE OF CONSTRUCTION, AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT TEMPORARY LOADS OCCURRING DURING CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN IN THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER.
8. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT OCCUR AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
9. DO NOT SUSPEND MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS FROM ROOF DECK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR HANGERS AND SUPPLEMENTAL FRAMING REQUIRED TO ATTACH THESE ITEMS TO THE MAIN ROOF FRAMING.
10. LOCATE REINFORCEMENT IN EXISTING STRUCTURAL CONCRETE SLABS AND WALLS USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING HOLES FOR PIPING AND CONDUIT. DO NOT DRILL INTO AND DAMAGE EXISTING REINFORCEMENT. COORDINATE QUANTITY AND LOCATION OF HOLES WITH PLUMBING AND ELECTRICAL DRAWINGS. REFER TO THESE DRAWINGS AND SPECIFICATIONS FOR SUPPLEMENTAL SUPPORTS AND SLEEVES. HOLES ARE NOT PERMITTED IN STRUCTURAL CONCRETE BEAMS, JOISTS, AND COLUMNS UNLESS SPECIFICALLY ALLOWED BY ENGINEER.
11. LOCATE REINFORCEMENT IN EXISTING STRUCTURAL CONCRETE SLABS, WALLS, BEAMS, JOISTS, AND COLUMNS USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING HOLES FOR POST-INSTALLED ANCHORS. DO NOT DRILL INTO AND DAMAGE EXISTING REINFORCEMENT. NOTIFY ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCEMENT.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

STRUCTURAL STEEL NOTES

1. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED IN STRUCTURAL DRAWINGS.
2. WHERE FILLET WELD SIZES ARE NOT SPECIFICALLY NOTED, THE FABRICATOR SHALL DETAIL A MINIMUM SIZE FILLET WELD IN ACCORDANCE WITH AWS STANDARDS OR AS REQUIRED TO PROVIDE REQUIRED CONNECTION CAPACITY FOR DELEGATED CONNECTION DESIGN. THE ACTUAL SIZES SHALL BE SHOWN IN THE SHOP DRAWINGS.
3. PROVIDE HOT-DIP GALVANIZED FASTENERS FOR GALVANIZED FRAMING CONNECTIONS AND STAINLESS-STEEL FASTENERS FOR STAINLESS STEEL FRAMING CONNECTIONS.
4. GALVANIZING WHERE NOTED IN THE DRAWINGS SHALL BE HOT-DIP GALVANIZING IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.

SPECIAL INSPECTION NOTES

1. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS AS NECESSARY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE BCNYS.
2. THE REGISTERED DESIGN PROFESSIONAL HAS PREPARED A STATEMENT OF SPECIAL INSPECTIONS, WHICH INCLUDES SPECIFICATION 014533, AND THE SCHEDULE OF SPECIAL INSPECTIONS. THESE DOCUMENTS WILL BE SUBMITTED WITH THE CONTRACT DOCUMENTS AND THE APPLICATION FOR BUILDING PERMIT TO THE CODE ENFORCEMENT OFFICIAL.
3. SPECIAL INSPECTIONS AND TESTING SHALL BE CONTINUOUS OR PERIODIC DURING PERFORMANCE OF THE WORK, AS NOTED.
4. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE REGISTERED DESIGN PROFESSIONAL, SPECIAL INSPECTOR, TESTING AGENCY, AND THEIR AFFECTED SUB-CONTRACTORS TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.
5. THE SPECIAL INSPECTOR SHALL SUBMIT INTERIM REPORTS AND, AT THE COMPLETION OF SPECIAL INSPECTIONS, A FINAL STATEMENT OF SPECIAL INSPECTIONS. REPORTS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.
6. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES. SUBSEQUENT REPORTS SHALL NOTE WHEN AND HOW DEFICIENCIES WERE CORRECTED. THE SPECIAL INSPECTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AND THE CODE ENFORCEMENT OFFICIAL OF DISCREPANCIES WHICH HAVE NOT BEEN CORRECTED.
7. THE CONTRACTOR SHALL COOPERATE WITH THE SPECIAL INSPECTOR INCLUDING ADVANCE NOTIFICATION OF REQUIRED INSPECTION OR TEST, INCIDENTAL LABOR OR SAFE ACCESS TO THE WORK AREAS, AND ACCESS TO CONTRACT DOCUMENTS SO THAT INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT INTERRUPTION.
8. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.
9. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

STRUCTURAL OBSERVATION NOTES

1. THE REGISTERED DESIGN PROFESSIONAL WILL MAKE VISITS TO THE SITE AT APPROPRIATE INTERVALS FOR THE PURPOSE OF OBSERVING THE CONSTRUCTION FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE FOLLOWING LIST INCLUDES SOME APPROPRIATE TIMES FOR VISITING THE SITE. THE CONTRACTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AT LEAST 48 HOURS PRIOR TO PERFORMING THESE ACTIVITIES SO THAT SITE VISITS CAN BE SCHEDULED.
   - COMPLETION OF THE STRUCTURAL SYSTEM.
   - OTHER TIMES AS REQUIRED DUE TO FIELD CONDITIONS OR SPECIAL CONSTRUCTION TYPES.
2. THE REGISTERED DESIGN PROFESSIONAL MAY VISIT THE SITE AT TIME OTHER THAN THOSE LISTED IN NOTE 1.
3. THE REGISTERED DESIGN PROFESSIONAL WILL PREPARE A FIELD OBSERVATION REPORT FOR EACH SITE VISIT MADE TO OBSERVE CONSTRUCTION. PART II OF EACH REPORT IS FOR CONTRACTOR VERIFICATION AND IS MANDATORY. PART II MUST BE COMPLETED (SIGNED BY THE CONTRACTOR VERIFYING THAT THE REQUIRED ACTION WAS TAKEN AND LISTING THE DATE COMPLETED) AND RETURNED TO THE ENGINEER IN A TIMELY MANNER.

ABBREVIATIONS LIST

AB	ANCHOR BOLT	EXIST	EXISTING	OF	OUTSIDE FACE
ACI	AMERICAN CONCRETE INSTITUTE	EXP	EXPANSION	OPNG	OPENING
		EXT	EXTERIOR	OPP	OPPOSITE
ACMU	ARCHITECTURAL CMU	FD	FLOOR DRAIN	OVS	OVERSIZED
ADDL	ADDITIONAL	FDN	FOUNDATION	PAF	POWER-ACTUATED FASTENER
ADJ	ADJACENT	FLG	FLANGE		
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FRP	FIBER REINFORCED POLYMER	PC	PRECAST OR PILE CAP
				PCF	POUNDS PER CUBIC FOOT
		FS	FAR SIDE		
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FT	FOOT OR FEET	PE	PROFESSIONAL ENGINNEER
		FTG	FOOTING		
		GA	GAUGE	PREFAB	PREFABRICATED
AHU	AIR HANDLING UNIT	GALV	GALVANIZE	PERP	PERPENDICULAR
ALT	ALTERNATE	GB	GRADE BEAM	PL	PLATE
ALUM	ALUMINUM	GR	GRADE	PLF	POUNDS PER LINEAR FOOT
ANC	ANCHOR	HAS	HEADED ANCHOR STUD		
APA	AMERICAN PLYWOOD ASSOCIATION			PS	PRESTRESSED
		HGR	HANGER	PSF	POUNDS PER SQUARE FOOT
APPROX	APPROXIMATE	HI	HIGH		
AR	ANCHOR ROD	HK	HOOK	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECT/ ARCHITECTURAL	HORIZ	HORIZONTAL		
		HP	HIGH POINT	PSL	PARALLEL STRAND LUMBER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HSS	HOLLOW STRUCTURAL SECTION	PT	POST-TENSIONED
				PTL	PRESSURE TREATED LUMBER
ASD	ALLOWABLE STRESS DESIGN	HT	HEIGHT		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HVAC	HEATING, VENTILATION, AIR CONDITIONING	QTY	QUANTITY
				R	RADIUS
				RD	ROOF DRAIN
AWS	AMERICAN WELDING SOCIETY	ID	INSIDE DIAMETER	RDP	REGISTERED DESIGN PROFESSIONAL
		IF	INSIDE FACE		
B/	BOTTOM OF	IN	INCH OR INCHES	REF	REFER TO OR REFERENCE
BF	BRACED FRAME	INFO	INFORMATION		
BLDG	BUILDING	INT	INTERIOR	REINF	REINFORCING OR REINFORCED
BM	BEAM	INV	INVERT		
BP	BASE PLATE	JT	JOINT	REQD	REQUIRED
BRG	BEARING	K	KIP(S)	REV	REVISED OR REVISION
BRDG	BRIDGING	KLF	KIPS PER LINEAR FOOT		
BTW	BETWEEN			RTU	ROOF TOP UNIT
C	CHANNEL	KSF	KIP PER SQUARE FOOT	RO	ROUGH OPENING
CANT	CANTILEVER			SC	SLIP-CRITICAL
CFMF	COLD-FORMED METAL FRAMING	KSI	KIPS PER SQUARE INCH	SCJ	SLAB CONTROL OR CONSTRUCTION JOINT
CIP	CAST-IN-PLACE	L	ANGLE SECTION		
CJ	CONTROL, CONSTRUCTION JOINT	LBS	POUNDS	SDI	STEEL DECK INSTITUTE
		LG	LONG		
		LL	LIVE LOAD	SJI	STEEL JOIST INSTITUTE
CJP	COMPLETE-JOINT-PENETRATION	LLH	LONG LEG HORIZONTAL		
				SF	SQUARE FEET
℄	CENTERLINE	LLV	LONG LEG VERTICAL	SI	SQUARE INCH
CLR	CLEAR	LO	LOW	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	LOC	LOCATION	SL	SNOW LOAD
		LONG	LONGITUDINAL	SOD	SLAB ON DECK
COL	COLUMN	LP	LOW POINT	SOG	SLAB ON GRADE
CONC	CONCRETE	LRFD	LOAD AND RESISTANCE FACTOR DESIGN	SPA	SPACE OR SPACING
CONT	CONTINUOUS			SPEC	SPECIFICATION
COORD	COORDINATE			SQ	SQUARE
CTR	CENTER(ED)	LSH	LONG SIDE HORIZONTAL	SS	STAINLESS STEEL
Ø	DIAMETER			STD	STANDARD
DBL	DOUBLE	LSV	LONG SIDE VERTICAL	STL	STEEL
DIAG	DIAGONAL	LW	LIGHTWEIGHT	STR	STRUCTURAL
DIM	DIMENSION	LWC	LIGHTWEIGHT CONCRETE	SW	SHEARWALL
DL	DEAD LOAD			T/	TOP OF
DN	DOWN	LVL	LEVEL OR LAMINATED VENEER LUMBER	T/F	TOP OF FOOTING
do	DITTO			T/S	TOP OF SHELF
DP	DRILLED PIER	MATL	MATERIAL	T/W	TOP OF WALL
DWG	DRAWING	MAX	MAXIMUM	T&B	TOP AND BOTTOM
DWL	DOWEL	MC	MISCELLANEOUS CHANNEL SECTION	TIM	THERMAL ISOLATION MATERIAL
(E)	EXISTING				
EA	EACH	MECH	MECHANICAL	TL	TOTAL LOAD
EC	EPOXY COATED	MEP	MECHANICAL/ ELECTRICAL/ PLUMBING	TYP	TYPICAL
EF	EACH FACE OR EXHAUST FAN			UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	MFR	MANUFACTURER	VERT	VERTICAL
EL	ELEVATION	MIN	MINIMUM	VIF	VERIFY IN FIELD
ELEC	ELECTRICAL	MISC	MISCELLANEOUS	W	WIDE FLANGE SECTION OR WIDTH
ELEV	ELEVATOR	MO	MASONRY OPENING		
EMBD	EMBEDDED OR EMBEDMENT	MTL	METAL	W/	WITH
		NA	NOT APPLICABLE	WP	WORK POINT
ENGR	ENGINEER	NIC	NOT IN CONTRACT	WT	WIDE FLANGE TEE SECTION
EOR	ENGINEER OF RECORD	NOM	NOMINAL		
		NS	NEAR SIDE	WWR	WELDED WIRE REINFORCEMENT
EOD	EDGE OF DECK	NTS	NOT TO SCALE		
EOS	EDGE OF SLAB	NW	NORMALWEIGHT	WCJ	WALL CONTROL OR CONSTRUCTION JOINT
EQ	EQUAL OR EQUALLY	NWC	NORMALWEIGHT CONCRETE		
EQUIP	EQUIPMENT				
ES	EACH SIDE	OC	ON CENTER		
EW	EACH WAY	OD	OUTSIDE DIAMETER		

bell & spina
ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204 Tel (315) 488 - 0377 Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534 Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK — JAMES L. DEMARCO — 027258 — LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: September 30,2027

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT NORTH

CONSULTANT

RYAN BIGGS CLARK DAVIS ENGINEERS, P.C.
1326 New Seneca Turnpike, Suite B3
Skaneateles, NY 13152 p. 315 685.4732
www.ryanbiggs.com
CERTIFICATE OF AUTHORITY #: 0023272

PROJECT

REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

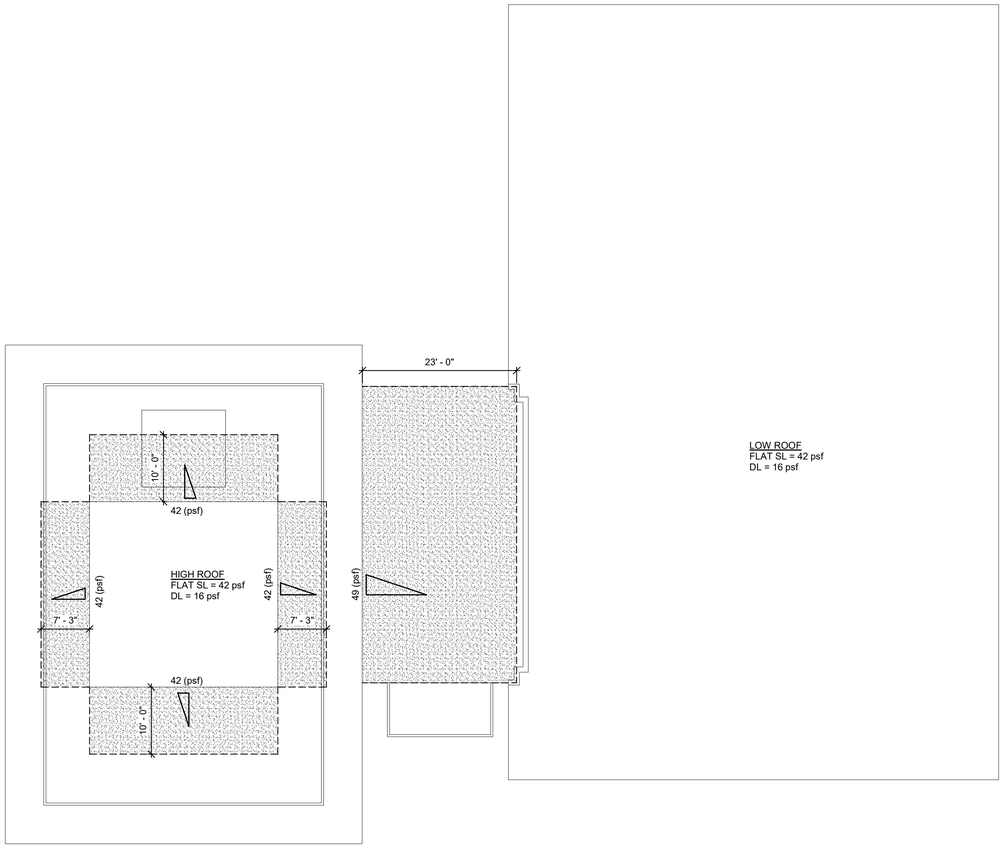
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KMR	JLD
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ADMINISTRATION BUILDING - DESIGN DATA NOTES

SHEET NUMBER
S001
SHEET 6 OF 58

14912

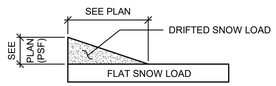
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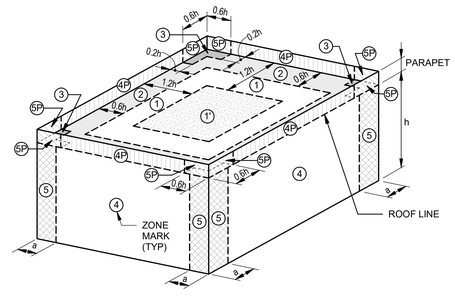
1 S002 ROOF SNOW LOADING PLAN

SCALE: 3/32" = 1'-0"

NOTES:

1. - DENOTES DRIFTED SNOW LOADS IN ADDITION TO FLAT SNOW LOADS SHOWN.
2. 

3. ALL LOADS SHOWN ARE ASD



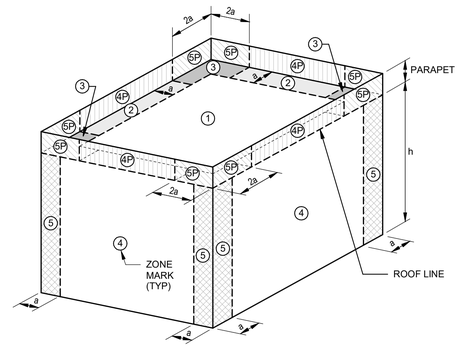
FLAT ROOF (Θ ≤ 7°; h ≤ 60'-0")

2 S002 LOW ROOF ZONE DESIGNATIONS FOR COMPONENTS AND CLADDING WIND PRESSURES

NOT TO SCALE

NOTES:

1. ZONE 1 IS INTERIOR ROOF AREA MORE THAN A DISTANCE "0.6h" FROM ROOF EDGES AND ZONE 1' IS INTERIOR ROOF AREA MORE THAN A DISTANCE "1.2h" FROM ROOF EDGES.
2. ZONE 2 (EDGE) EXTENDS A DISTANCE "a" IN FROM ROOF EDGE, TYPICAL AT ALL ROOF EDGES.
3. ZONE 3 (CORNER) EXTENDS A DISTANCE "0.6h" FROM CORNERS AND A DISTANCE "0.2h" IN FROM ROOF EDGE, TYPICAL AT ALL ROOF CORNERS.
4. ZONE 4 INCLUDES WALL AREAS BELOW THE ROOF LINE AND MORE THAN A DISTANCE "a" FROM CORNERS.
5. ZONE 4P INCLUDES PARAPET AREAS ABOVE THE ROOF LINE AND MORE THAN DISTANCE "0.6h" or "a" (WHICHEVER IS GREATER) FROM CORNERS.
6. ZONE 5 INCLUDES WALL AREAS BELOW THE ROOF LINE AND LESS THAN A DISTANCE "0.6" OR "a" (WHICHEVER IS GREATER) FROM CORNERS.
7. ZONE 5P INCLUDES PARAPET AREAS ABOVE THE ROOF LINE AND LESS THAN DISTANCE "0.6h" OR "a" (WHICHEVER IS GREATER) FROM CORNERS.
8. a = 7.4 ft, h = "HEIGHT OF ROOF" INDICATED IN THE DESIGN DATA TABLE.



FLAT ROOF (Θ ≤ 7°; h > 60'-0")

3 S002 HIGH ROOF ZONE DESIGNATIONS FOR COMPONENTS AND CLADDING WIND PRESSURES

NOT TO SCALE

NOTES:

1. ZONE 1 IS INTERIOR ROOF AREA MORE THAN A DISTANCE "a" FROM ROOF EDGES.
2. ZONE 2 (EDGE) EXTENDS A DISTANCE "a" IN FROM ROOF EDGE, TYPICAL AT ALL ROOF EDGES.
3. ZONE 3 (CORNER) EXTENDS A DISTANCE "2a" FROM CORNERS AND A DISTANCE "a" IN FROM ROOF EDGE, TYPICAL AT ALL ROOF CORNERS.
4. ZONE 4 INCLUDES WALL AREAS BELOW THE ROOF LINE AND MORE THAN A DISTANCE "a" FROM CORNERS.
5. ZONE 4P INCLUDES PARAPET AREAS ABOVE THE ROOF LINE AND MORE THAN DISTANCE "2a" FROM CORNERS.
6. ZONE 5 INCLUDES WALL AREAS BELOW THE ROOF LINE AND LESS THAN A DISTANCE "a" FROM CORNERS.
7. ZONE 5P INCLUDES PARAPET AREAS ABOVE THE ROOF LINE AND LESS THAN DISTANCE "2a" FROM CORNERS.
8. a = 7.5 ft, h = "HEIGHT OF ROOF" INDICATED IN THE DESIGN DATA TABLE.

DESIGN WIND PRESSURES FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS

SURFACE			EFFECTIVE WIND AREA (FT²) 10		20		50		100		200		500	
ROOFS	ZONE 1'		+16.0	-30.5	+16.0	-30.5	+16.0	-30.5	+16.0	-30.5	+16.0	-26.2	+16.0	-20.6
	ZONE 1			-53.0		-49.5		-44.9		-41.4		-37.9		-33.3
	ZONE 2			-69.9		-65.4		-59.5		-55.0		-50.5		-44.6
	ZONE 3			-95.3		-86.3		-74.4		-65.4		-56.4		-44.6
WALLS	ZONE 4		+33.3	-36.1	+31.8	-34.6	+29.8	-32.6	+28.3	-31.1	+26.8	-29.6	+24.8	-27.6
	ZONE 5			-44.6		-41.6		-37.6		-34.6		-31.6		-27.6
PARAPETS	ZONE 4P	EXTERIOR FACE	+32.5	-35.3	+31.0	-33.8	+29.1	-31.9	+27.6	-30.4	+26.2	-28.9	+24.2	-27.0
	ZONE 4P	INTERIOR FACE		-68.3		-63.9		-58.1		-53.7		-49.3		-43.5
	ZONE 5P	EXTERIOR FACE		-43.5		-40.6		-36.7		-33.8		-30.9		-27.0
	ZONE 5P	INTERIOR FACE		-93.1		-84.3		-72.7		-63.9		-55.2		-43.5

NOTES:
1. ULTIMATE DESIGN WIND PRESSURES ARE INDICATED (LRFD). MULTIPLY VALUES BY 0.6 FOR SERVICE (ASD) LEVEL WIND PRESSURES.
2. POSITIVE PRESSURES ACT TOWARDS THE SURFACE, NEGATIVE PRESSURES ACT AWAY FROM SURFACE.

DESIGN WIND PRESSURES FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS

SURFACE		EFFECTIVE WIND AREA (FT²) 10		20		50		100		200		500	
ROOFS	ZONE 1	+16.0	-58.2	+16.0	-55.2	+16.0	-50.8	+16.0	-47.1	+16.0	-43.4	+16.0	-39.7
	ZONE 1 INTERIOR OVERHANGS		-91.3		-88.3		-81.0		-74.7		-69.2		-61.8
	ZONE 2		-91.3		-86.9		-80.2		-75.8		-71.4		-65.5
	ZONE 3		-124.4		-118.1		-110.8		-105.3		-98.6		-91.3
WALLS	ZONE 4	+39.7	-39.7	+39.7	-39.7	+36.8	-37.9	+34.2	-36.1	+32.4	-34.6	+28.7	-32.4
	ZONE 5		-72.9		-72.9		-63.7		-58.2		-51.9		-43.4

NOTES:
1. ULTIMATE DESIGN WIND PRESSURES ARE INDICATED (LRFD). MULTIPLY VALUES BY 0.6 FOR SERVICE (ASD) LEVEL WIND PRESSURES.
2. POSITIVE PRESSURES ACT TOWARDS THE SURFACE, NEGATIVE PRESSURES ACT AWAY FROM SURFACE.

bell & spina
ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204
Tel (315) 488 - 0377 Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

EXPIRATION DATE: September 30,2027

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PROJECT NORTH

CONSULTANT

RYAN BIGGS CLARK DAVIS
ENGINEERS, PC
1326 New Seneca Turnpike, Suite B3
Skaneateles, NY 13152 p. 315 685.4732
www.ryanbiggs.com
CERTIFICATE OF AUTHORITY #. 0023272

PROJECT

REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

DRAWN	CHECKED
KMR	JLD
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE

ADMINISTRATION BUILDING - LOAD DIAGRAMS

SHEET NUMBER

S002

SHEET 7 OF 58

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SCHEDULE OF SPECIAL INSPECTIONS FOR BUILDING STRUCTURES

THE STATEMENT OF SPECIAL INSPECTIONS CONSISTS OF THIS SCHEDULE OF SPECIAL INSPECTIONS AND SPECIFICATION SECTION 014533. THESE DOCUMENTS MUST BE SUBMITTED FOR APPROVAL TO THE OWNER AND CODE ENFORCEMENT OFFICIAL AS A CONDITION OF OBTAINING A BUILDING PERMIT. THE AGENT WHO WILL BE PERFORMING SPECIAL INSPECTIONS HAVE NOT YET BEEN RETAINED BY THE OWNER. THE NAMES AND QUALIFICATIONS OF THE AGENTS MUST BE SUBMITTED TO THE CODE ENFORCEMENT OFFICIAL AND REGISTERED DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

INSPECTION AGENTS
1. SPECIAL INSPECTOR, P.E.
2. GEOTECHNICAL ENGINEERING/INSPECTOR
3. TESTING/INSPECTING AGENCY
4. TESTING/INSPECTING AGENCY

THE OWNER OR THE OWNER'S REPRESENTATIVE SHALL RETAIN A SPECIAL INSPECTOR WHO WILL PERFORM INSPECTIONS AND TESTING AND/OR OVERSEE THE WORK OF AN INSPECTION AND TESTING AGENCY. THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF BUILDINGS AND REGISTERED IN THE STATE OF NEW YORK.

THE CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK CANNOT RETAIN THE SPECIAL INSPECTOR. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE CODE ENFORCEMENT OFFICIAL PRIOR TO COMMENCING CONSTRUCTION.

THE NAMES AND QUALIFICATIONS OF AGENTS MUST BE SUBMITTED TO THE CODE ENFORCEMENT OFFICIAL AND REGISTERED DESIGN PROFESSIONAL PRIOR TO COMMENCING CONSTRUCTION. THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING INSPECTION AND TESING ACTIVITIES ARE SUBJECT TO APPROVAL BY THE CODE ENFORCEMENT OFFICIAL. MINIMUM QUALIFICATIONS OF THE TESTING AGENTS ARE INDICATED IN THE SCHEDULE.

KEY OF MINIMUM QUALIFICATIONS OF INSPECTION AGENTS (MQIA)	
PE	NEW YORK STATE REGISTERED PROFESSIONAL ENGINEER
RDP	NEW YORK STATE REGISTERED DESIGN PROFESSIONAL
EIT	ENGINEER IN TRAINING SUPERVISED BY A PE – INTERN ENGINEER
ACI-CCI	AMERICAN CONCRETE INSTITUTE CERTIFIED CONCRETE CONSTRUCTION INSPECTOR
ACI-CFTT	AMERICAN CONCRETE INSTITUTE CERTIFIED CONCRETE FIELD TESTING TECHNICIAN – GRADE 1
ICC-RCSI	ICC REINFORCED CONCRETE SPECIAL INSPECTOR
ICC-RCC	ICC REINFORCED CONCRETE CERTIFICATION
ICC-SMC	ICC STRUCTURAL MASONRY CERTIFICATION
ICC-SSWC	ICC STRUCTURAL STEEL AND WELDING CERTIFICATION
AWS-CWI	AMERICAN WELDING SOCIETY CERTIFIED WELDING INSPECTOR
ICC-SAFC	ICC SPRAY-APPLIED FIREPROOFING CERTIFICATION
ASNT	AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING – LEVEL II OR III
ICC-PCC	ICC PRESTRESSED CONCRETE CERTIFICATION

CATEGORY	MINIMUM QUALIFICATIONS OF INSPECTION AGENTS (MQIA)
A. REINFORCED CONCRETE	1. CURRENT ICC REINFORCED CONCRETE SPECIAL INSPECTOR OR ACI CONCRETE CONSTRUCTION INSPECTOR 2. CONCRETE FIELD TESTING CAN BE BY AN ACI CONCRETE FIELD TESTING TECHNICAL WITH GRADE 1 CERTIFICATION 3. INTERN ENGINEER WITH RELEVANT EXPERIENCE 4. NEW YORK STATE REGISTERED PROFESSIONAL ENGINEER (PE) WITH RELEVANT EXPERIENCE
B. PRE-STRESSED CONCRETE	1. CURRENT ICC REINFORCED CONCRETE CERTIFICATION AND ACI CONCRETE FIELD TESTING TECHNICAL WITH GRADE 1 CERTIFICATION PLUS ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
C. POST-TENSIONED CONCRETE	1. CURRENT POST-TENSIONING INSTITUTE (PTI) CERTIFICATION 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
D. WELDING	1. CURRENT AWS CERTIFIED WELDING INSPECTOR 2. CURRENT ICC STRUCTURAL STEEL AND WELDING CERTIFICATE PLUS ONE YEAR OF RELEVANT EXPERIENCE 3. CURRENT LEVEL II CERTIFICATION FROM THE AMERICAN SOCIETY FOR NON-DESTRUCTIVE TESTING (NDT) 4. CURRENT LEVEL III PROVIDED PREVIOUSLY CERTIFIED AS NDT LEVEL II
E. HIGH-STRENGTH BOLTING AND STEEL FRAME INSPECTION	1. CURRENT ICC STRUCTURAL STEEL AND WELDING CERTIFICATE PLUS ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
F. MASONRY	1. CURRENT ICC STRUCTURAL MASONRY AND ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. RDP OR PE WITH RELEVANT EXPERIENCE
G. SPRAYED FIRE-RESISTANT MATERIALS	1. CURRENT ICC SPRAY-APPLIED FIREPROOFING CERTIFICATION AND ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. RDP WITH RELEVANT EXPERIENCE
H. EXCAVATION AND FILLING VERIFICATION OF SOILS PILES AND DRILLED PIERS MODULAR RETAINING WALLS	1. CURRENT LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/CONSTRUCTION FROM THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
I. INSPECTION OF FABRICATORS	1. PRECAST: CURRENT ICC REINFORCED CONCRETE CERTIFICATION PLUS ONE YEAR OF RELEVANT EXPERIENCE 2. BAR JOISTS: SEE WELDING REQUIREMENTS 3. METAL BUILDINGS: SEE WELDING REQUIREMENTS 4. STRUCTURAL STEEL: SEE WELDING REQUIREMENTS
J. EXTERIOR AND INTERIOR ARCHITECTURAL WALL	1. INTERN ENGINEER WITH RELEVANT EXPERIENCE 2. RDP WITH RELEVANT EXPERIENCE
K. EXTERIOR INSULATION AND FINISH SYSTEM	1. INTERN ENGINEER WITH RELEVANT EXPERIENCE 2. RDP WITH RELEVANT EXPERIENCE
L. SMOKE CONTROL	1. EXPERTISE IN FIRE PROTECTION ENGINEERING, MECHANICAL ENGINEERING, AND CERTIFIED AS AN AIR BALANCER 2. THE RDP RESPONSIBLE FOR DESIGN
M. SEISMIC RESISTANCE	1 SEE APPLICABLE CATEGORIES IN THIS TABLE
N. GENERAL	1. QUALIFIED PERSON WITH ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. RDP OR PE WITH RELEVANT EXPERIENCE

STEEL CONSTRUCTION
(BCNYS SECTION 1705.2.1)

✓	TYPE	MQIA	CONT.	PERIODIC	REFERENCED STANDARD
✓	VERIFY STRUCTURAL STEEL MATERIALS (INCLUDING HIGH-STRENGTH BOLTS, NUTS, WASHERS, AND WELD FILLER MATERIALS) AND REVIEW MANUFACTURER'S CERTIFICATES OF COMPLIANCE:	E.1-E.3		X 100%	
✓	A. VERIFY MARKINGS CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.				
✓	B. REVIEW CERTIFIED MILL TEST REPORTS.				
✓	PERFORM MINIMUM INSPECTIONS PRIOR TO WELDING. VISUALLY INSPECT JOINT FIT-UP FOR FILLET WELDS AND PARTIAL AND COMPLETE PENETRATON GROOVE WELDS.	D.1, D.2, M.1	X		AISC 360 TABLE N5.4-1 AWS D1.1
✓	A. GENERAL		X 50%		
	B. TENSION MEMBERS, COLUMN SPLICES, AND MOMENT CONNECTIONS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.		X 100%		
✓	VERIFY WELDER QUALIFICATIONS ARE CURRENT AND APPROPRIATE FOR JOINT TYPE, WELDING POSITION, AND WELDING PROCESS TO BE USED.	D.1, D.2, M.1		X 100%	AISC 360 TABLE N5.4-1
✓	VERIFY ACCEPTED WELD PROCEDURE SPECIFICATIONS ARE AVAILABLE ON SITE.	D.1, D.2, M.1		X 100%	AISC 360 TABLE N5.4-1
✓	PERFORM MINIMUM INSPECTIONS DURING WELDING. INSPECT EACH PASS OF MULT-PASS FILLET WELDS AND PARTIAL AND COMPLETE PENETRATION GROOVE WELDS.	D.1, D.2, M.1	X		AISC 360 TABLE N5.4-2
✓	PERFORM MINIMUM INSPECTIONS AFTER WELDING.	D.1, D.2, M.1		X 100%	AISC 360 TABLE N5.4-3
✓	PERFORM ULTRASONIC TESTING (UT) OF PARTIAL AND COMPLETE PENETRATION GROOVE WELDS AS FOLLOWS:	D.1, D.2, M.1			AISC 360 N5.5b - N5.5f ASTM E 587
✓	A. GENERAL			X 50%	
	B. TENSION MEMBERS, COLUMN SPLICES, AND MOMENT CONNECTIONS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.			X 100%	
	C. COMPLETE PENETRATION GROOVE WELDS SUBJECTS TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, -T, AND CORNER JOINTS IN MATERIALS S/16 INCH THICK OR GREATER.			X 100%	
✓	PERFORM MAGNETIC PARTICLE INSPECTION OF FILLET WELDS.	D.1, D.2, M.1		X 10%	AISC 360 N5.5a ASTM E 709
✓	PERFORM MINIMUM INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING (NOT REQUIRED FOR SNUG-TIGHT JOINTS).	E.1, M.1	X		AISC 360 N6, TABLE N5.6-1
✓	A. TEST HIGH-STRENGTH BOLT ASSEMBLIES IN A TENSION MEASURING DEIVICE TO VERIFY MATERIAL CONFORMANCE PRIOR TO INSTALLATION.				AISC 360 SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, SECTION 7
✓	PERFORM MINIMUM INSPECTIONS DURING HIGH-STRENGTH BOLTING (NOT REQUIRED FOR SNUG-TIGHT JOINTS):	E.1, M.1			AISC 360 N6, TABLE N5.6-2
✓	A. TURN-OF-NUT WITH MATCH MARKING, DIRECT-TENSION-INDICATOR METHOD OR TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD.			X 100%	
✓	B. CALIBRATED WRENCH METHOD, TURN-OF-NUT METHOD WITHOUT MATCHMARKING.		X		
✓	PERFORM MINIMUM INSPECTIONS AFTER HIGH-STRENGTH BOLTING. USE OF CALIBRATED WRENCH METHOD NOT PERMITTED.	E.1, M.1		X 100%	AISC 360 N6, TABLE N5.6-3
✓	INSPECT FABRICATED AND ERECTED STEEL (INCLUDING CONNECTIONS) TO VERIFY COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. INSPECT BRACES, STIFFENERS, MEMBER LOCATIONS, AND JOINT DETAILS.	E.1, E.2, E.3, M.1		X 100%	AISC 360 N5.8
✓	INSPECTED ERECTED STEEL FOR DAMAGE.	E.1, E.2, E.3, M.1		X 100%	
	VERIFY COLUMN FITUP AND PLUMBNESS.	E.1		X 100%	AISC 360 M4, N2.3(f)
	INSPECT DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	A.1, A.2, A.3, A.4	X		AISC 360 N5.8
	PERFORM PULL-OUT TESTS ON DRILLED-IN, ADHESIVE, EXPANSION, AND SLEEVE ANCHORS:	E.1			ACI 318 17.8.2
	A. TEST ANCHORS BY PULLING WITH A CLAW HAMMER USING THE WEIGHT OF ONE MAN.			X 100%	
	B. TEST EACH ANCHOR TYPE (MINIMUM OF 2) USING A HYDRAULIC JACK AND APPLYING A TENSION LOAD OF 2000 LBS			X 10%	
	C. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.		X		ACI 318 17.8.2.4
	INSPECT WELDING OF STEEL-HEADED STUD ANCHORS. (SHEAR CONNECTORS)	D.1, D.2, M.1			AWS D1.1, SECTION 7
	A. OBSERVE BEND TESTS.		X		SPECIFICATION 053000, PART 3
	B. INSPECT EVERY SHEAR CONNECTOR BY STRIKING ONCE WITH A 10-POUND HAMMER. DIRECTION OF HAMMER SWING SHALL BE PARALLEL WITH MEMBER SPAN. (NOT A REPLACEMENT FOR BEND TESTS)			X 100%	
✓	COUPON TESTS: OBTAIN SAMPLES OF AN EXISTING COLUMN FLANGE AND BEAM FLANGE. TEST STEEL TO DETERMINE CARBON EQUIVALENT. SUBMIT RESULTS OF TESTING TO ENGINEER. PROVIDE PREHEAT AND LOW-HYDROGEN ELECTRODES FOR VALUES BETWEEN 0.40 AND 0.55. NOTIFY ENGINEER IF VALUES EXCEED 0.55.			X ONE COLUMN AND ONE BEAM	

SHOP INSPECTION OF STRUCTURAL STEEL

1. VERIFY FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES. REVIEW PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO CODE REQUIREMENTS.
2. IF FABRICATOR IS CERTIFIED THROUGH THE AISC QUALITY CERTIFICATION PROGRAM, SPECIAL INSPECTION OF SHOP-FABRICATED MEMBERS AND ASSEMBLIES IS ONLY REQUIRED FOR PARTIAL AND COMPLETE PENETRATION GROOVE WELDS AS FOLLOWS:
   A. 10% OF WELDS IN GENERAL.
   B. 100% OF WELDS FOR TENSION MEMBERS, COLUMN SPLICES, AND MOMENT CONNECTIONS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
3. IF FABRICATOR IS NOT CERTIFIED THROUGH THE AISC QUALITY CERTIFICATION PROGRAM, SPECIAL INSPECTION OF SHOP-FABRICATED MEMBERS AND ASSEMBLIES IS REQUIRE FOR 100 PERCENT OF PARTIAL AND COMPLETE PENETRATION GROOVE WELDS AS WELL AS 10 PERCENT OF FILLET WELDS. CONTRACTOR SHALL REIMBURSE OWNER FOR COST OF SHOP INSPECTIONS.
4. IN LIEU OF SPECIAL INSPECTION AT FABRICATOR'S SHOP, THE FABRICATOR MAY SUBMIT FOR CONSIDERATION, THE SUCF FABRICATOR'S CERTIFICATE OF COMPLIANCE FORM WITH THE SHOP DRAWINGS. IF APPROVED, THE SPECIAL INSPECTION AT FABRICATOR'S SHOP WILL BE WAIVED.

ADDITIONAL INSPECTION REQUIRED FOR NON-CONFORMING WORK

1. ADDITIONAL SPECIAL INSPECTIONS ARE REQUIRED FOR FIELD MODIFICATIONS PERFORMED BY THE CONTRACTOR AS A RESULT OF ERRORS IN SHOP DRAWINGS AND FABRICATION, OR AS A RESULT OF MISALIGNMENT OR IMPROPER ERECTION OF STRUCTURAL STEEL.
   A. PERFORM ULTRASONIC INSPECTION FOR 100 PERCENT OF PARTIAL AND COMPLETE PENETRATION WELDS.
   B. PERFORM MAGNETIC PARTICLE INSPECTION FOR 100 PERCENT OF FILLET WELDS.
   C. PERFORM PULL-OUT TESTS ON 100 PERCENT OF EACH TYPE OF ADHESIVE, EXPANSION, OR SLEEVE ANCHOR. TEST EACH ANCHOR USING A HYDRAULIC JACK AND APPLYING TENSION LOADS AS SPECIFIED IN THE SCHEDULE.
2. CONTRACTOR SHALL REIMBURSE OWNER FOR COST OF ADDITIONAL INSPECTIONS.

bell & spina ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204 Tel (315) 488-0377 Fax (315) 487-5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534 Tel (585) 200-5038 Fax (585) 487-9532
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STATE OF NEW YORK — KEVIN M. BELL — LICENSED PROFESSIONAL ENGINEER — No. 077235

EXPIRATION DATE: September 30,2027

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CODE COMPLIANCE FOR EXISTING STRUCTURES

DESIGN CODE:	2025 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
COMPLIANCE METHOD:	WORK AREA
CLASSIFICATION OF WORK:	ALTERATION-LEVEL 1

EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENTS HAVE BEEN EVALUATED TO CARRY THE GRAVITY LOADS REQUIRED BY THE BCNYS FOR NEW STRUCTURES IF THE ALTERATION CAUSES AN INCREASE IN THE DESIGN DEAD, LIVE, OR SNOW LOAD, INCLUDING SNOW DRIFT EFFECTS, OF MORE THAN 5 PERCENT OR THE CAPACITY OF ANY EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENT IS DECREASED AS PART OF THE ALTERATION

EXISTING LATERAL LOAD-CARRYING STRUCTURAL ELEMENTS ARE NO LESS CONFORMING TO THE PROVISIONS OF THE 2025 EBCNYS WITH RESPECT TO WIND AND SEISMIC DESIGN THAN THEY WERE PRIOR TO THIS WORK. THEREFORE, LATERAL LOADS HAVE NOT BEEN EVALUATED FOR THIS STRUCTURE.

DESIGN DATA

DESIGN CODE:		2025 BUILDING CODE OF NEW YORK STATE (BCNYS)
RISK CATEGORY:		II
EXPOSURE CATEGORY:		C
SITE BASE ELEVATION:		1050 ft
SNOW & RAIN LOADS	GROUND SNOW LOAD (Pg):	69 psf (ULT), 49 psf (ASD)
	FLAT ROOF SNOW LOAD (Pf):	38 psf (ASD)
	EXPOSURE FACTOR (Ce):	1.0
	PRESUMED AVERAGE R VALUE (R):	34
	THERMAL FACTOR (Ct):	1.12
	RAIN LOAD (7.5 INCHES OF ACCUMULATION):	40 psf
	A CODE COMPLIANT SECONDARY DRAINAGE SYSTEM SHALL BE PROVIDED TO LIMIT THE ACCUMULATED DEPTH OF WATER TO AMOUNT NOTED OR LESS.	
	RAIN-ON-SNOW SURCHARGE LOAD:	NA
	DRIFTED, UNBALANCED, AND SLOPED ROOF SLIDING SNOW IN ACCORDANCE WITH ASCE 7-22. SEE S011 FOR SNOW LOADING DIAGRAM.	
WIND LOADS	MAIN WIND FORCE RESISTING SYSTEM HAS NOT BEEN EVALUATED. DESIGN DATA BELOW IN INTENDED SOLELY FOR DETERMINATION OF COMPONENT AND CLADDING LOADS FOR ROOFING AND ROOFTOP STRUCTURES.	
	ULTIMATE WIND SPEED (3-SECOND GUST) (Vult):	111 mph
	NOMINAL WIND SPEED (3-SECOND GUST) (Vasd):	67 mph
	TOPOGRAPHIC FACTOR (Kzt):	1.0
	HEIGHT OF MAIN ROOF:	LOW ROOF: AVG: 33'-0", HIGH ROOF 39'-0"
	SEE ADDITIONAL WIND LOAD DATA FOR ROOFS, OVERHANGS, COMPONENTS AND CLADDING, ROOF-TOP STRUCTURES, CANOPIES, AND PARAPETS. NET UPLIFT LOAD ON ROOF FRAMING COMPONENTS SHALL BE DETERMINED BY DEDUCTING 25 psf DEAD LOAD FROM THE TABULATED ROOF WIND LOADS FOR COMPONENTS AND CLADDING. NET UPLIFT VALUE SHALL BE A MINIMUM OF 10 psf.	

LOADING SCHEDULE

OCCUPANCY OR USE	SUPERIMPOSED DEAD LOAD (psf)	LIVE LOAD		LIVE LOAD REDUCTION
		UNIFORM (psf)	CONCENTRATED (lbs)	
ROOF	[18] (5)	20	300	NO

NOTES:
1. FLOORS HAVE BEEN DESIGNED TO SUPPORT THE UNIFORMLY DISTRIBUTED LIVE LOADS OR THE CONCENTRATED LIVE LOADS NOTED ABOVE, WHICHEVER PRODUCE THE GREATER LOAD EFFECTS.
2. CONCENTRATED LIVE LOAD: UNIFORMLY DISTRIBUTED OVER AN AREA 2.5 FEET SQUARE (6.25 SQUARE FEET) AND LOCATED SO AS TO PRODUCE THE MAXIMUM LOAD EFFECTS IN THE STRUCTURAL MEMBERS.
3. SUPERIMPOSED DEAD LOAD DOES NOT INCLUDE SELF-WEIGHT OF THE STRUCTURE (BEAMS, COLUMNS, SLABS, METAL DECK, ETC)
4. DO NOT SUSPEND CONCENTRATED LOADS FROM BARE METAL DECK OR EXISTING GYPSUM DECK.
5. SEE PLAN FOR LOCATIONS AND WEIGHTS OF LARGE EQUIPMENT. WEIGHT OF THIS EQUIPMENT IS IN ADDITION TO THE UNIFORM LOADS INDICATED ABOVE.

MATERIAL STRENGTHS TABLE

STRUCTURAL STEEL	
STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED, SEE SPECIFICATIONS. FOR CONNECTIONS PROVIDE HIGHER GRADE AS REQUIRED.	
ANCHOR RODS	ASTM F1554, GRADE 36 OR 55
HIGH-STRENGTH BOLTS	ASTM F3125, GRADE A325 OR A490, TYPE 1, PLAIN
ROLLED-STEEL ANGLES, S, M, ST AND MT SHAPES	ASTM A572 GRADE 50
ROLLED-STEEL PLATES AND BARS	ASTM A572 GRADE 50 [ASTM A36]
ROLLED-STEEL W, WT, C, MC SHAPES	ASTM A992
ROLLED-STEEL HP SHAPES	ASTM A572, GRADE 50
STEEL PIPE	ASTM A53, TYPE E OR S, GRADE B
HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE C
HEADED STUD ANCHOR	ASTM A108, TYPE B

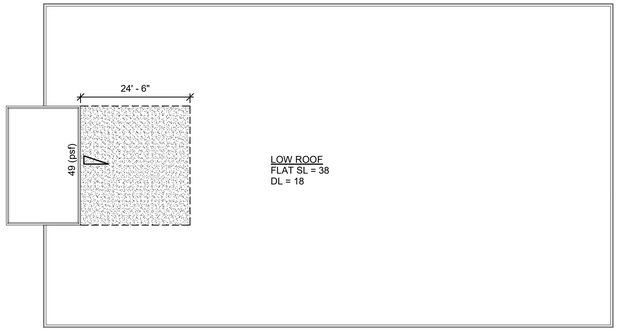
GENERAL NOTES

1. THIS PROJECT INCLUDES STRUCTURAL MODIFICATIONS TO AN EXISTING BUILDING. EXISTING STRUCTURE REPRESENTED IN DRAWINGS IS BASED ON INFORMATION OBTAINED FROM AVAILABLE HISTORICAL DOCUMENTS OF ORIGINAL CONSTRUCTION , EXISTING STRUCTURE AND DIMENSIONS TO, OF, AND WITHIN THE EXISTING STRUCTURE SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS.
3. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
5. THE NOTES IN THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, SEQUENCE OF CONSTRUCTION, AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT TEMPORARY LOADS OCCURRING DURING CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN IN THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER.
8. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT OCCUR AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
9. DO NOT SUSPEND MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS FROM ROOF DECK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR HANGERS AND SUPPLEMENTAL FRAMING REQUIRED TO ATTACH THESE ITEMS TO THE MAIN ROOF FRAMING.
10. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

STRUCTURAL STEEL NOTES
1. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED IN STRUCTURAL DRAWINGS.
2. WHERE FILLET WELD SIZES ARE NOT SPECIFICALLY NOTED, THE FABRICATOR SHALL DETAIL A MINIMUM SIZE FILLET WELD IN ACCORDANCE WITH AWS STANDARDS OR AS REQUIRED TO PROVIDE REQUIRED CONNECTION CAPACITY FOR DELEGATED CONNECTION DESIGN. THE ACTUAL SIZES SHALL BE SHOWN IN THE SHOP DRAWINGS.
3. PROVIDE HOT-DIP GALVANIZED FASTENERS FOR GALVANIZED FRAMING CONNECTIONS AND STAINLESS-STEEL FASTENERS FOR STAINLESS STEEL FRAMING CONNECTIONS.
4. GALVANIZING WHERE NOTED IN THE DRAWINGS SHALL BE HOT-DIP GALVANIZING IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.

SPECIAL INSPECTION NOTES
1. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS AS NECESSARY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE BCNYS.
2. THE REGISTERED DESIGN PROFESSIONAL HAS PREPARED A STATEMENT OF SPECIAL INSPECTIONS, WHICH INCLUDES SPECIFICATION 014533, AND THE SCHEDULE OF SPECIAL INSPECTIONS. THESE DOCUMENTS WILL BE SUBMITTED WITH THE CONTRACT DOCUMENTS AND THE APPLICATION FOR BUILDING PERMIT TO THE CODE ENFORCEMENT OFFICIAL.
3. SPECIAL INSPECTIONS AND TESTING SHALL BE CONTINUOUS OR PERIODIC DURING PERFORMANCE OF THE WORK, AS NOTED.
4. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE REGISTERED DESIGN PROFESSIONAL, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUB-CONTRACTORS TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.
5. THE SPECIAL INSPECTOR SHALL SUBMIT INTERIM REPORTS AND, AT THE COMPLETION OF SPECIAL INSPECTIONS, A FINAL STATEMENT OF SPECIAL INSPECTIONS. REPORTS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.
6. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES. SUBSEQUENT REPORTS SHALL NOTE WHEN AND HOW DEFICIENCIES WERE CORRECTED. THE SPECIAL INSPECTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AND THE CODE ENFORCEMENT OFFICIAL OF DISCREPANCIES WHICH HAVE NOT BEEN CORRECTED.
7. THE CONTRACTOR SHALL COOPERATE WITH THE SPECIAL INSPECTOR INCLUDING ADVANCE NOTIFICATION OF REQUIRED INSPECTION OR TEST, INCIDENTAL LABOR OR SAFE ACCESS TO THE WORK AREAS, AND ACCESS TO CONTRACT DOCUMENTS SO THAT INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT INTERRUPTION.
8. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.
9. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

STRUCTURAL OBSERVATION NOTES
1. THE REGISTERED DESIGN PROFESSIONAL WILL MAKE VISITS TO THE SITE AT APPROPRIATE INTERVALS FOR THE PURPOSE OF OBSERVING THE CONSTRUCTION FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE FOLLOWING LIST INCLUDES SOME APPROPRIATE TIMES FOR VISITING THE SITE. THE CONTRACTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AT LEAST 48 HOURS PRIOR TO PERFORMING THESE ACTIVITIES SO THAT SITE VISITS CAN BE SCHEDULED.
   - INITIAL ERECTION OF STRUCTURAL STEEL AND METAL DECK (PRIOR TO PLACEMENT OF SLABS).
   - COMPLETION OF THE STRUCTURAL SYSTEM.
   - OTHER TIMES AS REQUIRED DUE TO FIELD CONDITIONS OR SPECIAL CONSTRUCTION TYPES.
2. THE REGISTERED DESIGN PROFESSIONAL MAY VISIT THE SITE AT TIME OTHER THAN THOSE LISTED IN NOTE 1.
3. THE REGISTERED DESIGN PROFESSIONAL WILL PREPARE A FIELD OBSERVATION REPORT FOR EACH SITE VISIT MADE TO OBSERVE CONSTRUCTION. PART II OF EACH REPORT IS FOR CONTRACTOR VERIFICATION AND IS MANDATORY. PART II MUST BE COMPLETED (SIGNED BY THE CONTRACTOR VERIFYING THAT THE REQUIRED ACTION WAS TAKEN AND LISTING THE DATE COMPLETED) AND RETURNED TO THE ENGINEER IN A TIMELY MANNER.



1 S011 ROOF SNOW LOADING PLAN

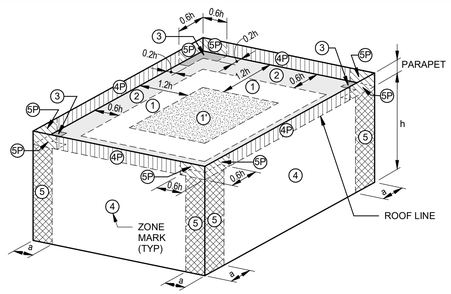
NOT TO SCALE

NOTES:
1. - DENOTES DRIFTED SNOW LOADS IN ADDITION TO FLAT SNOW LOADS SHOWN.
2. SEE PLAN, SEE PLAN (PSF), DRIFTED SNOW LOAD, FLAT SNOW LOAD
3. ALL LOADS SHOWN ARE ASD

DESIGN WIND PRESSURES FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS

SURFACE		EFFECTIVE WIND AREA (FT²) 10		20		50		100		200		500	
ROOFS	ZONE 1'	+16.0	-28.8	+16.0	-28.8	+16.0	-28.8	+16.0	-28.8	+16.0	-24.8	+16.0	-19.5
	ZONE 1		-50.2		-46.9		-42.5		-39.2		-35.9		-31.5
	ZONE 2		-66.2		-62.0		-56.3		-52.1		-47.8		-42.2
	ZONE 3		-90.2		-81.7		-70.5		-62.0		-53.4		-42.2
WALLS	ZONE 4	+31.5	-34.2	+30.1	-32.8	+28.2	-30.9	+26.8	-29.5	+25.4	-28.0	+23.5	-26.2
	ZONE 5		-42.2		-39.3		-35.6		-32.8		-29.9		-26.2
PARAPETS	ZONE 4P EXTERIOR FACE	+28.8	-31.2	+27.5	-29.9	+25.8	-28.2	+24.5	-26.9	+23.2	-25.6	+21.5	-23.9
	ZONE 4P INTERIOR FACE		-60.5		-56.6		-51.4		-47.6		-43.7		-38.5
	ZONE 5P EXTERIOR FACE		-38.5		-35.9		-32.5		-29.9		-27.3		-23.9
	ZONE 5P INTERIOR FACE		-82.4		-74.6		-64.4		-56.6		-48.8		-38.5

NOTES:
1. ULTIMATE DESIGN WIND PRESSURES ARE INDICATED (LRFD). MULTIPLY VALUES BY 0.6 FOR SERVICE (ASD) LEVEL WIND PRESSURES.
2. POSITIVE PRESSURES ACT TOWARDS THE SURFACE, NEGATIVE PRESSURES ACT AWAY FROM SURFACE.



FLAT ROOF (Θ ≤ 7°; h ≤ 60'-0")

ZONE DESIGNATIONS FOR COMPONENTS AND CLADDING WIND PRESSURES

NOT TO SCALE

NOTES:
1. ZONE 1 IS INTERIOR ROOF AREA MORE THAN A DISTANCE "0.6h" FROM ROOF EDGES AND ZONE 1' IS INTERIOR ROOF AREA MORE THAN A DISTANCE "1.2h" FROM ROOF EDGES.
2. ZONE 2 (EDGE) EXTENDS A DISTANCE "a" IN FROM ROOF EDGE, TYPICAL AT ALL ROOF EDGES.
3. ZONE 3 (CORNER) EXTENDS A DISTANCE "0.6h" FROM CORNERS AND A DISTANCE "0.2h" IN FROM ROOF EDGE, TYPICAL AT ALL ROOF CORNERS.
4. ZONE 4 INCLUDES WALL AREAS BELOW THE ROOF LINE AND MORE THAN A DISTANCE "a" FROM CORNERS.
5. ZONE 4P INCLUDES PARAPET AREAS ABOVE THE ROOF LINE AND MORE THAN DISTANCE "0.6h" or "a" (WHICHEVER IS GREATER) FROM CORNERS.
6. ZONE 5 INCLUDES WALL AREAS BELOW THE ROOF LINE AND LESS THAN A DISTANCE "0.6" OR "a" (WHICHEVER IS GREATER) FROM CORNERS.
7. ZONE 5P INCLUDES PARAPET AREAS ABOVE THE ROOF LINE AND LESS THAN DISTANCE "0.6h" OR "a" (WHICHEVER IS GREATER) FROM CORNERS.
8. a = 7.3 ft, h = "HEIGHT OF ROOF" INDICATED IN THE DESIGN DATA TABLE.

ABBREVIATIONS LIST

AB	ANCHOR BOLT	EXIST	EXISTING	OF	OUTSIDE FACE
ACI	AMERICAN CONCRETE INSTITUTE	EXP	EXPANSION	OPNG	OPENING
		EXT	EXTERIOR	OPP	OPPOSITE
ACMU	ARCHITECTURAL CMU	FD	FLOOR DRAIN	OVS	OVERSIZED
ADDL	ADDITIONAL	FDN	FOUNDATION	PAF	POWER-ACTUATED FASTENER
ADJ	ADJACENT	FLG	FLANGE		
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FRP	FIBER REINFORCED POLYMER	PC	PRECAST OR PILE CAP
		FS	FAR SIDE	PCF	POUNDS PER CUBIC FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FT	FOOT OR FEET	PE	PROFESSIONAL ENGINNEER
		FTG	FOOTING		
		GA	GAUGE	PREFAB	PREFABRICATED
AHU	AIR HANDLING UNIT	GALV	GALVANIZE	PERP	PERPENDICULAR
ALT	ALTERNATE	GB	GRADE BEAM	PL	PLATE
ALUM	ALUMINUM	GR	GRADE	PLF	POUNDS PER LINEAR FOOT
ANC	ANCHOR	HAS	HEADED ANCHOR STUD		
APA	AMERICAN PLYWOOD ASSOCIATION			PS	PRESTRESSED
		HGR	HANGER	PSF	POUNDS PER SQUARE FOOT
APPROX	APPROXIMATE	HI	HIGH		
AR	ANCHOR ROD	HK	HOOK	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECT/ ARCHITECTURAL	HORIZ	HORIZONTAL		
		HP	HIGH POINT	PSL	PARALLEL STRAND LUMBER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HSS	HOLLOW STRUCTURAL SECTION	PT	POST-TENSIONED
ASD	ALLOWABLE STRESS DESIGN			PTL	PRESSURE TREATED LUMBER
		HT	HEIGHT		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HVAC	HEATING, VENTILATION, AIR CONDITIONING	QTY	QUANTITY
				R	RADIUS
AWS	AMERICAN WELDING SOCIETY	ID	INSIDE DIAMETER	RD	ROOF DRAIN
		IF	INSIDE FACE	RDP	REGISTERED DESIGN PROFESSIONAL
B/	BOTTOM OF	IN	INCH OR INCHES	REF	REFER TO OR REFERENCE
BF	BRACED FRAME	INFO	INFORMATION		
BLDG	BUILDING	INT	INTERIOR	REINF	REINFORCING OR REINFORCED
BM	BEAM	INV	INVERT		
BP	BASE PLATE	JT	JOINT	REQD	REQUIRED
BRG	BEARING	K	KIP(S)	REV	REVISED OR REVISION
BRDG	BRIDGING	KLF	KIPS PER LINEAR FOOT		
BTW	BETWEEN			RTU	ROOF TOP UNIT
C	CHANNEL	KSF	KIP PER SQUARE FOOT	RO	ROUGH OPENING
CANT	CANTILEVER			SC	SLIP-CRITICAL
CFMF	COLD-FORMED METAL FRAMING	KSI	KIPS PER SQUARE INCH	SCJ	SLAB CONTROL OR CONSTRUCTION JOINT
CIP	CAST-IN-PLACE	L	ANGLE SECTION		
CJ	CONTROL, CONSTRUCTION JOINT	LBS	POUNDS	SDI	STEEL DECK INSTITUTE
		LG	LONG		
		LL	LIVE LOAD	SJI	STEEL JOIST INSTITUTE
CJP	COMPLETE-JOINT-PENETRATION	LLH	LONG LEG HORIZONTAL		
				SF	SQUARE FEET
℄	CENTERLINE	LLV	LONG LEG VERTICAL	SI	SQUARE INCH
CLR	CLEAR	LO	LOW	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	LOC	LOCATION	SL	SNOW LOAD
		LONG	LONGITUDINAL	SOD	SLAB ON DECK
COL	COLUMN	LP	LOW POINT	SOG	SLAB ON GRADE
CONC	CONCRETE	LRFD	LOAD AND RESISTANCE FACTOR DESIGN	SPA	SPACE OR SPACING
CONT	CONTINUOUS			SPEC	SPECIFICATION
COORD	COORDINATE			SQ	SQUARE
CTR	CENTER(ED)	LSH	LONG SIDE HORIZONTAL	SS	STAINLESS STEEL
Ø	DIAMETER			STD	STANDARD
DBL	DOUBLE	LSV	LONG SIDE VERTICAL	STL	STEEL
DIAG	DIAGONAL	LW	LIGHTWEIGHT	STR	STRUCTURAL
DIM	DIMENSION	LWC	LIGHTWEIGHT CONCRETE	SW	SHEARWALL
DL	DEAD LOAD			T/	TOP OF
DN	DOWN	LVL	LEVEL OR LAMINATED VENEER LUMBER	T/F	TOP OF FOOTING
do	DITTO			T/S	TOP OF SHELF
DP	DRILLED PIER	MATL	MATERIAL	T/W	TOP OF WALL
DWG	DRAWING	MAX	MAXIMUM	T&B	TOP AND BOTTOM
DWL	DOWEL	MC	MISCELLANEOUS CHANNEL SECTION	TIM	THERMAL ISOLATION MATERIAL
(E)	EXISTING				
EA	EACH	MECH	MECHANICAL	TL	TOTAL LOAD
EC	EPOXY COATED	MEP	MECHANICAL/ ELECTRICAL/ PLUMBING	TYP	TYPICAL
EF	EACH FACE OR EXHAUST FAN			UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	MFR	MANUFACTURER	VERT	VERTICAL
EL	ELEVATION	MIN	MINIMUM	VIF	VERIFY IN FIELD
ELEC	ELECTRICAL	MISC	MISCELLANEOUS	W	WIDE FLANGE SECTION OR WIDTH
ELEV	ELEVATOR	MO	MASONRY OPENING		
EMBD	EMBEDDED OR EMBEDMENT	MTL	METAL	W/	WITH
		NA	NOT APPLICABLE	WP	WORK POINT
ENGR	ENGINEER	NIC	NOT IN CONTRACT	WT	WIDE FLANGE TEE SECTION
EOR	ENGINEER OF RECORD	NOM	NOMINAL		
		NS	NEAR SIDE	WWR	WELDED WIRE REINFORCEMENT
EOD	EDGE OF DECK	NTS	NOT TO SCALE		
EOS	EDGE OF SLAB	NW	NORMALWEIGHT	WCJ	WALL CONTROL OR CONSTRUCTION JOINT
EQ	EQUAL OR EQUALLY	NWC	NORMALWEIGHT CONCRETE		
EQUIP	EQUIPMENT				
ES	EACH SIDE	OC	ON CENTER		
EW	EACH WAY	OD	OUTSIDE DIAMETER		

bell & spina ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204
Tel (315) 488 - 0377 Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK — JAMES C. BELL — LICENSED PROFESSIONAL ENGINEER — No. 072239

EXPIRATION DATE: September 30,2027

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT NORTH

CONSULTANT
RYAN BIGGS CLARK DAVIS ENGINEERS, P.C.
1326 New Seneca Turnpike, Suite B3
Skaneateles, NY 13152 p. 315 685.4732
www.ryanbiggs.com
CERTIFICATE OF AUTHORITY #: 0023272

PROJECT
REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER **071108-00**

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

DRAWN	CHECKED
KMR	JLD
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES - DESIGN DATA NOTES

SHEET NUMBER
S011
SHEET 9 OF 58

14912

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SCHEDULE OF SPECIAL INSPECTIONS FOR BUILDING STRUCTURES

THE STATEMENT OF SPECIAL INSPECTIONS CONSISTS OF THIS SCHEDULE OF SPECIAL INSPECTIONS AND SPECIFICATION SECTION 014533. THESE DOCUMENTS MUST BE SUBMITTED FOR APPROVAL TO THE OWNER AND CODE ENFORCEMENT OFFICIAL AS A CONDITION OF OBTAINING A BUILDING PERMIT. THE AGENT WHO WILL BE PERFORMING SPECIAL INSPECTIONS HAVE NOT YET BEEN RETAINED BY THE OWNER. THE NAMES AND QUALIFICATIONS OF THE AGENTS MUST BE SUBMITTED TO THE CODE ENFORCEMENT OFFICIAL AND REGISTERED DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

INSPECTION AGENTS
1. SPECIAL INSPECTOR, P.E.
2. GEOTECHNICAL ENGINEERING/INSPECTOR
3. TESTING/INSPECTING AGENCY
4. TESTING/INSPECTING AGENCY

THE OWNER OR THE OWNER'S REPRESENTATIVE SHALL RETAIN A SPECIAL INSPECTOR WHO WILL PERFORM INSPECTIONS AND TESTING AND/OR OVERSEE THE WORK OF AN INSPECTION AND TESTING AGENCY. THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF BUILDINGS AND REGISTERED IN THE STATE OF NEW YORK.

THE CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK CANNOT RETAIN THE SPECIAL INSPECTOR. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE CODE ENFORCEMENT OFFICIAL PRIOR TO COMMENCING CONSTRUCTION.

THE NAMES AND QUALIFICATIONS OF AGENTS MUST BE SUBMITTED TO THE CODE ENFORCEMENT OFFICIAL AND REGISTERED DESIGN PROFESSIONAL PRIOR TO COMMENCING CONSTRUCTION. THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING INSPECTION AND TESING ACTIVITIES ARE SUBJECT TO APPROVAL BY THE CODE ENFORCEMENT OFFICIAL. MINIMUM QUALIFICATIONS OF THE TESTING AGENTS ARE INDICATED IN THE SCHEDULE.

KEY OF MINIMUM QUALIFICATIONS OF INSPECTION AGENTS (MQIA)	
PE	NEW YORK STATE REGISTERED PROFESSIONAL ENGINEER
RDP	NEW YORK STATE REGISTERED DESIGN PROFESSIONAL
EIT	ENGINEER IN TRAINING SUPERVISED BY A PE – INTERN ENGINEER
ACI-CCI	AMERICAN CONCRETE INSTITUTE CERTIFIED CONCRETE CONSTRUCTION INSPECTOR
ACI-CFTT	AMERICAN CONCRETE INSTITUTE CERTIFIED CONCRETE FIELD TESTING TECHNICIAN – GRADE 1
ICC-RCSI	ICC REINFORCED CONCRETE SPECIAL INSPECTOR
ICC-RCC	ICC REINFORCED CONCRETE CERTIFICATION
ICC-SMC	ICC STRUCTURAL MASONRY CERTIFICATION
ICC-SSWC	ICC STRUCTURAL STEEL AND WELDING CERTIFICATION
AWS-CWI	AMERICAN WELDING SOCIETY CERTIFIED WELDING INSPECTOR
ICC-SAFC	ICC SPRAY-APPLIED FIREPROOFING CERTIFICATION
ASNT	AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING – LEVEL II OR III
ICC-PCC	ICC PRESTRESSED CONCRETE CERTIFICATION

CATEGORY	MINIMUM QUALIFICATIONS OF INSPECTION AGENTS (MQIA)
A. REINFORCED CONCRETE	1. CURRENT ICC REINFORCED CONCRETE SPECIAL INSPECTOR OR ACI CONCRETE CONSTRUCTION INSPECTOR 2. CONCRETE FIELD TESTING CAN BE BY AN ACI CONCRETE FIELD TESTING TECHNICAL WITH GRADE 1 CERTIFICATION 3. INTERN ENGINEER WITH RELEVANT EXPERIENCE 4. NEW YORK STATE REGISTERED PROFESSIONAL ENGINEER (PE) WITH RELEVANT EXPERIENCE
B. PRE-STRESSED CONCRETE	1. CURRENT ICC REINFORCED CONCRETE CERTIFICATION AND ACI CONCRETE FIELD TESTING TECHNICAL WITH GRADE 1 CERTIFICATION PLUS ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
C. POST-TENSIONED CONCRETE	1. CURRENT POST-TENSIONING INSTITUTE (PTI) CERTIFICATION 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
D. WELDING	1. CURRENT AWS CERTIFIED WELDING INSPECTOR 2. CURRENT ICC STRUCTURAL STEEL AND WELDING CERTIFICATE PLUS ONE YEAR OF RELEVANT EXPERIENCE 3. CURRENT LEVEL II CERTIFICATION FROM THE AMERICAN SOCIETY FOR NON-DESTRUCTIVE TESTING (NDT) 4. CURRENT LEVEL III PROVIDED PREVIOUSLY CERTIFIED AS NDT LEVEL II
E. HIGH-STRENGTH BOLTING AND STEEL FRAME INSPECTION	1. CURRENT ICC STRUCTURAL STEEL AND WELDING CERTIFICATE PLUS ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
F. MASONRY	1. CURRENT ICC STRUCTURAL MASONRY AND ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. RDP OR PE WITH RELEVANT EXPERIENCE
G. SPRAYED FIRE-RESISTANT MATERIALS	1. CURRENT ICC SPRAY-APPLIED FIREPROOFING CERTIFICATION AND ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. RDP WITH RELEVANT EXPERIENCE
H. EXCAVATION AND FILLING VERIFICATION OF SOILS PILES AND DRILLED PIERS MODULAR RETAINING WALLS	1. CURRENT LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/CONSTRUCTION FROM THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. PE WITH RELEVANT EXPERIENCE
I. INSPECTION OF FABRICATORS	1. PRECAST: CURRENT ICC REINFORCED CONCRETE CERTIFICATION PLUS ONE YEAR OF RELEVANT EXPERIENCE 2. BAR JOISTS: SEE WELDING REQUIREMENTS 3. METAL BUILDINGS: SEE WELDING REQUIREMENTS 4. STRUCTURAL STEEL: SEE WELDING REQUIREMENTS
J. EXTERIOR AND INTERIOR ARCHITECTURAL WALL	1. INTERN ENGINEER WITH RELEVANT EXPERIENCE 2. RDP WITH RELEVANT EXPERIENCE
K. EXTERIOR INSULATION AND FINISH SYSTEM	1. INTERN ENGINEER WITH RELEVANT EXPERIENCE 2. RDP WITH RELEVANT EXPERIENCE
L. SMOKE CONTROL	1. EXPERTISE IN FIRE PROTECTION ENGINEERING, MECHANICAL ENGINEERING, AND CERTIFIED AS AN AIR BALANCER 2. THE RDP RESPONSIBLE FOR DESIGN
M. SEISMIC RESISTANCE	1 SEE APPLICABLE CATEGORIES IN THIS TABLE
N. GENERAL	1. QUALIFIED PERSON WITH ONE YEAR OF RELEVANT EXPERIENCE 2. INTERN ENGINEER WITH RELEVANT EXPERIENCE 3. RDP OR PE WITH RELEVANT EXPERIENCE

STEEL CONSTRUCTION
(BCNYS SECTION 1705.2.1)

✓	TYPE	MQIA	CONT.	PERIODIC	REFERENCED STANDARD
✓	VERIFY STRUCTURAL STEEL MATERIALS (INCLUDING HIGH-STRENGTH BOLTS, NUTS, WASHERS, AND WELD FILLER MATERIALS) AND REVIEW MANUFACTURER'S CERTIFICATES OF COMPLIANCE:	E.1-E.3		X 100%	
✓	A. VERIFY MARKINGS CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.				
✓	B. REVIEW CERTIFIED MILL TEST REPORTS.				
✓	PERFORM MINIMUM INSPECTIONS PRIOR TO WELDING. VISUALLY INSPECT JOINT FIT-UP FOR FILLET WELDS AND PARTIAL AND COMPLETE PENETRATON GROOVE WELDS.	D.1, D.2, M.1	X		AISC 360 TABLE N5.4-1 AWS D1.1
✓	A. GENERAL		X 50%		
	B. TENSION MEMBERS, COLUMN SPLICES, AND MOMENT CONNECTIONS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.		X 100%		
✓	VERIFY WELDER QUALIFICATIONS ARE CURRENT AND APPROPRIATE FOR JOINT TYPE, WELDING POSITION, AND WELDING PROCESS TO BE USED.	D.1, D.2, M.1		X 100%	AISC 360 TABLE N5.4-1
✓	VERIFY ACCEPTED WELD PROCEDURE SPECIFICATIONS ARE AVAILABLE ON SITE.	D.1, D.2, M.1		X 100%	AISC 360 TABLE N5.4-1
✓	PERFORM MINIMUM INSPECTIONS DURING WELDING. INSPECT EACH PASS OF MULT-PASS FILLET WELDS AND PARTIAL AND COMPLETE PENETRATION GROOVE WELDS.	D.1, D.2, M.1	X		AISC 360 TABLE N5.4-2
✓	PERFORM MINIMUM INSPECTIONS AFTER WELDING.	D.1, D.2, M.1		X 100%	AISC 360 TABLE N5.4-3
✓	PERFORM ULTRASONIC TESTING (UT) OF PARTIAL AND COMPLETE PENETRATION GROOVE WELDS AS FOLLOWS:	D.1, D.2, M.1			AISC 360 N5.5b - N5.5f ASTM E 587
✓	A. GENERAL			X 50%	
	B. TENSION MEMBERS, COLUMN SPLICES, AND MOMENT CONNECTIONS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.			X 100%	
	C. COMPLETE PENETRATION GROOVE WELDS SUBJECTS TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, -T, AND CORNER JOINTS IN MATERIALS 5/16 INCH THICK OR GREATER.			X 100%	
✓	PERFORM MAGNETIC PARTICLE INSPECTION OF FILLET WELDS.	D.1, D.2, M.1		X 10%	AISC 360 N5.5a ASTM E 709
✓	PERFORM MINIMUM INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING (NOT REQUIRED FOR SNUG-TIGHT JOINTS).	E.1, M.1	X		AISC 360 N6, TABLE N5.6-1
✓	A. TEST HIGH-STRENGTH BOLT ASSEMBLIES IN A TENSION MEASURING DEVICE TO VERIFY MATERIAL CONFORMANCE PRIOR TO INSTALLATION.				AISC 360 SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, SECTION 7
✓	PERFORM MINIMUM INSPECTIONS DURING HIGH-STRENGTH BOLTING (NOT REQUIRED FOR SNUG-TIGHT JOINTS):	E.1, M.1			AISC 360 N6, TABLE N5.6-2
✓	A. TURN-OF-NUT WITH MATCH MARKING, DIRECT-TENSION-INDICATOR METHOD OR TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD.			X 100%	
✓	B. CALIBRATED WRENCH METHOD, TURN-OF-NUT METHOD WITHOUT MATCHMARKING.		X		
✓	PERFORM MINIMUM INSPECTIONS AFTER HIGH-STRENGTH BOLTING. USE OF CALIBRATED WRENCH METHOD NOT PERMITTED.	E.1, M.1		X 100%	AISC 360 N6, TABLE N5.6-3
✓	INSPECT FABRICATED AND ERECTED STEEL (INCLUDING CONNECTIONS) TO VERIFY COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. INSPECT BRACES, STIFFENERS, MEMBER LOCATIONS, AND JOINT DETAILS.	E.1, E.2, E.3, M.1		X 100%	AISC 360 N5.8
✓	INSPECTED ERECTED STEEL FOR DAMAGE.	E.1, E.2, E.3, M.1		X 100%	
	VERIFY COLUMN FITUP AND PLUMBNESS.	E.1		X 100%	AISC 360 M4, N2.3(f)
	INSPECT DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	A.1, A.2, A.3, A.4	X		AISC 360 N5.8
	PERFORM PULL-OUT TESTS ON DRILLED-IN, ADHESIVE, EXPANSION, AND SLEEVE ANCHORS:	E.1			ACI 318 17.8.2
	A. TEST ANCHORS BY PULLING WITH A CLAW HAMMER USING THE WEIGHT OF ONE MAN.			X 100%	
	B. TEST EACH ANCHOR TYPE (MINIMUM OF 2) USING A HYDRAULIC JACK AND APPLYING A TENSION LOAD OF 2000 LBS			X 10%	
	C. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.		X		ACI 318 17.8.2.4
	INSPECT WELDING OF STEEL-HEADED STUD ANCHORS. (SHEAR CONNECTORS)	D.1, D.2, M.1			AWS D1.1, SECTION 7
	A. OBSERVE BEND TESTS.		X		SPECIFICATION 053000, PART 3
	B. INSPECT EVERY SHEAR CONNECTOR BY STRIKING ONCE WITH A 10-POUND HAMMER. DIRECTION OF HAMMER SWING SHALL BE PARALLEL WITH MEMBER SPAN. (NOT A REPLACEMENT FOR BEND TESTS)			X 100%	
✓	COUPON TESTS: OBTAIN SAMPLES OF AN EXISTING COLUMN FLANGE AND BEAM FLANGE. TEST STEEL TO DETERMINE CARBON EQUIVALENT. SUBMIT RESULTS OF TESTING TO ENGINEER. PROVIDE PREHEAT AND LOW-HYDROGEN ELECTRODES FOR VALUES BETWEEN 0.40 AND 0.55. NOTIFY ENGINEER IF VALUES EXCEED 0.55.			X ONE COLUMN AND ONE BEAM	

SHOP INSPECTION OF STRUCTURAL STEEL

1. VERIFY FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES. REVIEW PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO CODE REQUIREMENTS.
2. IF FABRICATOR IS CERTIFIED THROUGH THE AISC QUALITY CERTIFICATION PROGRAM, SPECIAL INSPECTION OF SHOP-FABRICATED MEMBERS AND ASSEMBLIES IS ONLY REQUIRED FOR PARTIAL AND COMPLETE PENETRATION GROOVE WELDS AS FOLLOWS:
   A. 10% OF WELDS IN GENERAL.
   B. 100% OF WELDS FOR TENSION MEMBERS, COLUMN SPLICES, AND MOMENT CONNECTIONS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
3. IF FABRICATOR IS NOT CERTIFIED THROUGH THE AISC QUALITY CERTIFICATION PROGRAM, SPECIAL INSPECTION OF SHOP-FABRICATED MEMBERS AND ASSEMBLIES IS REQUIRE FOR 100 PERCENT OF PARTIAL AND COMPLETE PENETRATION GROOVE WELDS AS WELL AS 10 PERCENT OF FILLET WELDS. CONTRACTOR SHALL REIMBURSE OWNER FOR COST OF SHOP INSPECTIONS.
4. IN LIEU OF SPECIAL INSPECTION AT FABRICATOR'S SHOP, THE FABRICATOR MAY SUBMIT FOR CONSIDERATION, THE SUCF FABRICATOR'S CERTIFICATE OF COMPLIANCE FORM WITH THE SHOP DRAWINGS. IF APPROVED, THE SPECIAL INSPECTION AT FABRICATOR'S SHOP WILL BE WAIVED.

ADDITIONAL INSPECTION REQUIRED FOR NON-CONFORMING WORK

1. ADDITIONAL SPECIAL INSPECTIONS ARE REQUIRED FOR FIELD MODIFICATIONS PERFORMED BY THE CONTRACTOR AS A RESULT OF ERRORS IN SHOP DRAWINGS AND FABRICATION, OR AS A RESULT OF MISALIGNMENT OR IMPROPER ERECTION OF STRUCTURAL STEEL.
   A. PERFORM ULTRASONIC INSPECTION FOR 100 PERCENT OF PARTIAL AND COMPLETE PENETRATION WELDS.
   B. PERFORM MAGNETIC PARTICLE INSPECTION FOR 100 PERCENT OF FILLET WELDS.
   C. PERFORM PULL-OUT TESTS ON 100 PERCENT OF EACH TYPE OF ADHESIVE, EXPANSION, OR SLEEVE ANCHOR. TEST EACH ANCHOR USING A HYDRAULIC JACK AND APPLYING TENSION LOADS AS SPECIFIED IN THE SCHEDULE.
2. CONTRACTOR SHALL REIMBURSE OWNER FOR COST OF ADDITIONAL INSPECTIONS.

bell & spina ARCHITECTS
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info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK — JAMES L. DAVIS — 077239 — LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: September 30,2027

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PROJECT NORTH

CONSULTANT

RYAN BIGGS CLARK DAVIS ENGINEERING, PC
1326 New Seneca Turnpike, Suite B3
Skaneateles, NY 13152 p. 315 685.4732
www.ryanbiggs.com
CERTIFICATE OF AUTHORITY #: 0023272

PROJECT

REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

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MARK	DATE	DESCRIPTION

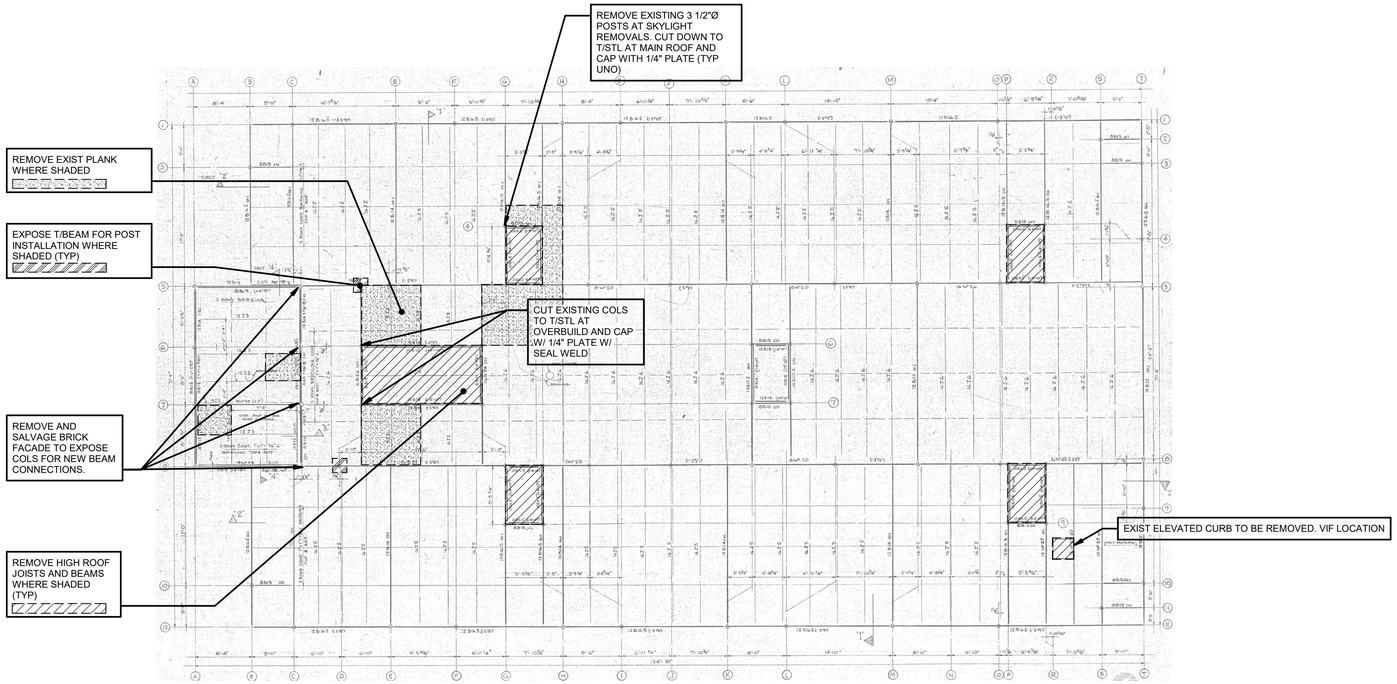
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KMR	JLD
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES - SPECIAL INSPECTION

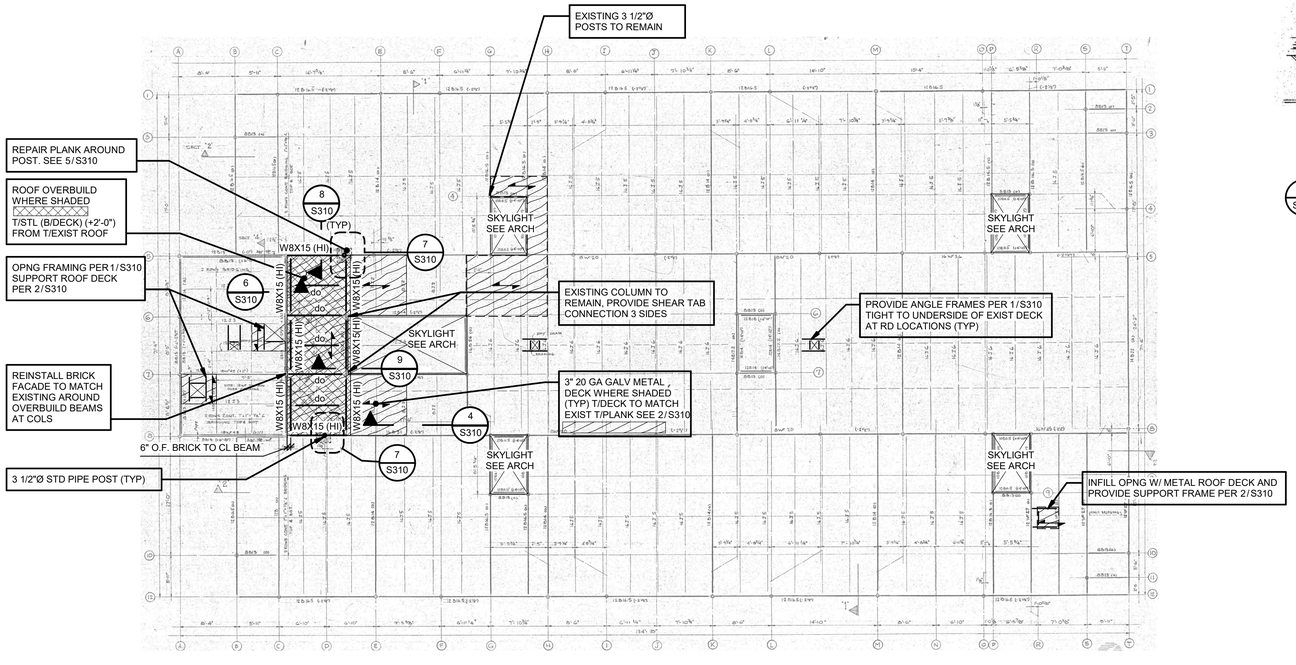
SHEET NUMBER
S012
SHEET 10 OF 58

14912

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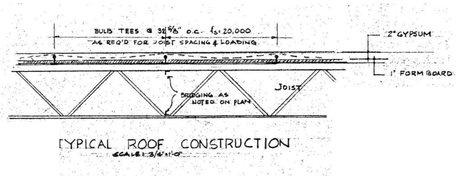


1 S110 ROOF FRAMING PLAN - REMOVALS
SCALE: 1" = 10'-0"



2 S110 ROOF FRAMING PLAN
NOT TO SCALE
NOTES:

1. PROVIDE STANDARD SHEAR CONNECTION AT EA BEAM END (TYP). PROVIDE MINIMUM (2) A-325 3/4"Ø BOLTS W/ 3/8" PLATES OR ANGLES.
2. COORD LOCATION AND SIZES OF ROOF OPNGS WITH ARCH AND MEP DRAWINGS.



3 S110 EXISTING ROOF STRUCTURE
SCALE: 3/4" = 1'-0"

THIS IS A MARKUP OF EXISTING DRAWINGS TO SHOW EXTENT OF WORK. DIMENSIONS MUST BE FIELD VERIFIED. CONDITIONS MAY VARY AND MUST BE CONFIRMED IN FIELD.

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PROJECT

REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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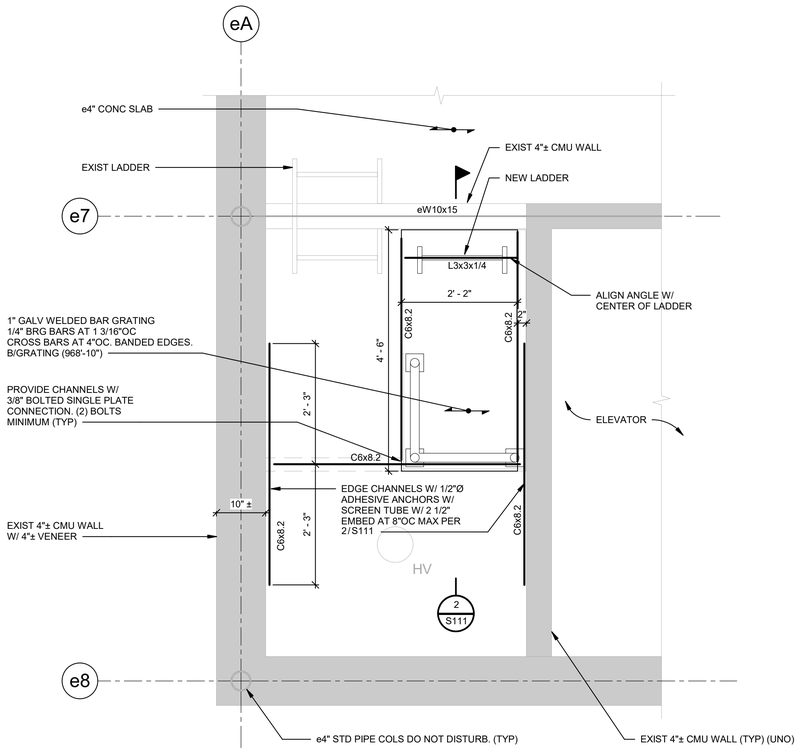
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KMR	JLD
DATE	**SCALE**
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES - PLANS

SHEET NUMBER
S110
SHEET 11 OF 58

14912

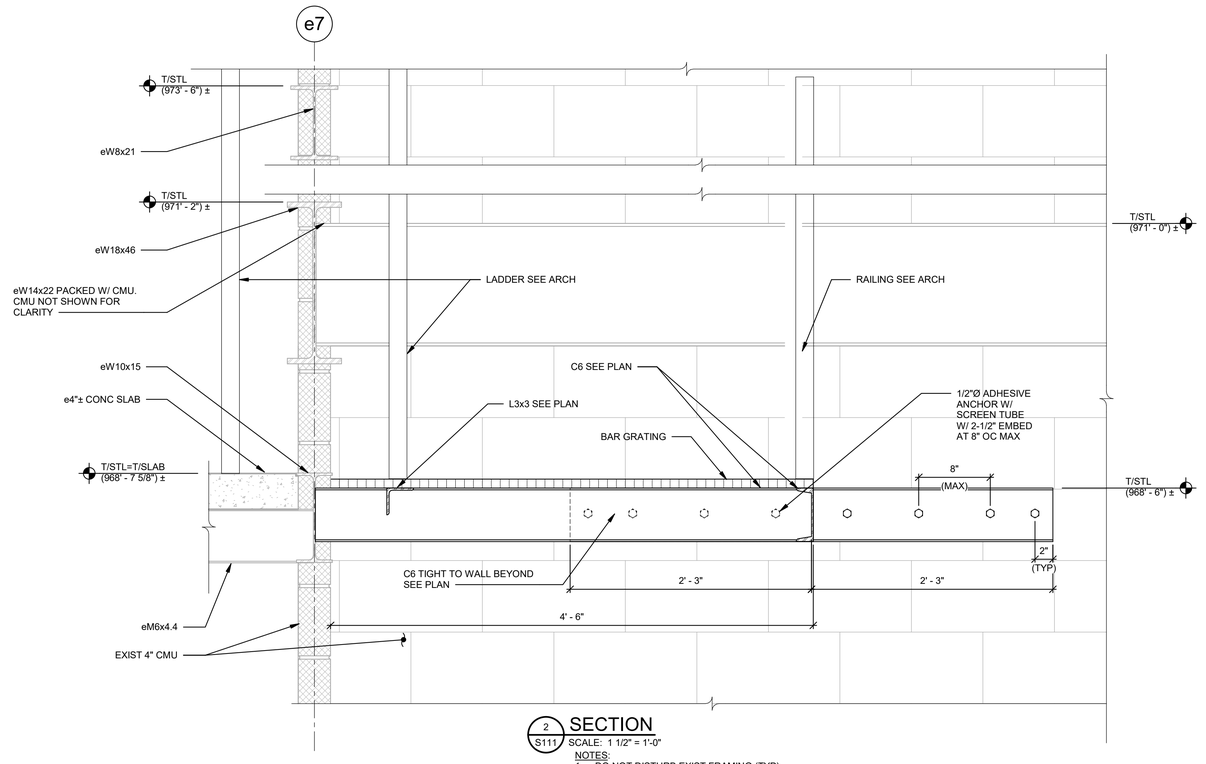
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1 S111 PLAN

SCALE: 3/4" = 1'-0"

NOTE:
T/STEEL = B/GRATING (968' - 6").



2 S111 SECTION

SCALE: 1 1/2" = 1'-0"

NOTES:
1. DO NOT DISTURB EXIST FRAMING (TYP).
2. COORDINATE LADDER AND RAILING LOCATIONS W/ ARCH DRAWINGS.
3. NEW AND EXISTING STEEL CONNECTIONS NOT SHOWN FOR CLARITY.

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STATE OF NEW YORK · JAMES L. DELLA SPINA · LICENSED PROFESSIONAL ENGINEER · No. 077223 · ARCHITECT

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CERTIFICATE OF AUTHORITY #. 0023272

PROJECT

REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
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KMR	JLD
DATE	**SCALE**
11/02/2026	AS NOTED

SHEET TITLE

HEALTH SERVICES - PLANS CONT

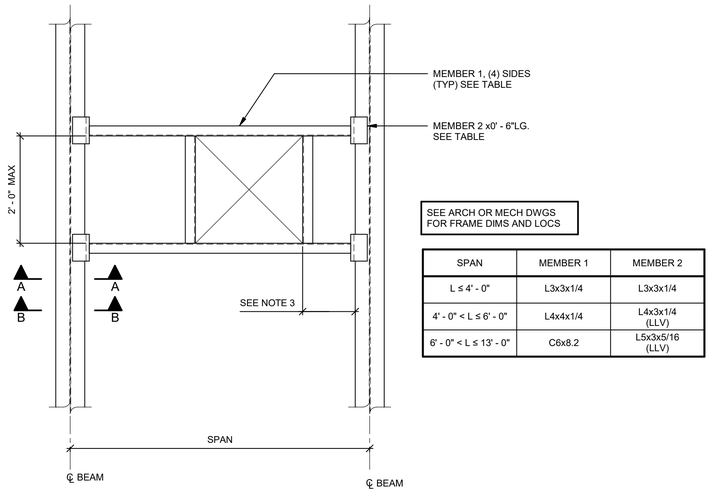
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SEE ARCH OR MECH DWGS
FOR FRAME DIMS AND LOCS

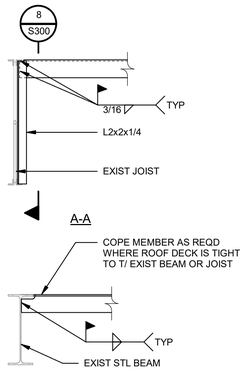
SPAN	MEMBER 1	MEMBER 2
L ≤ 4' - 0"	L3x3x1/4	L3x3x1/4
4' - 0" < L ≤ 6' - 0"	L4x4x1/4	L4x3x1/4 (LLV)
6' - 0" < L ≤ 13' - 0"	C6x8.2	L5x3x5/16 (LLV)

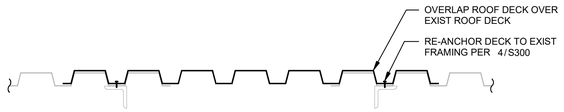
PLAN

1 S300 WELDED ANGLE FRAME DETAIL

SCALE: 3/4" = 1'-0"

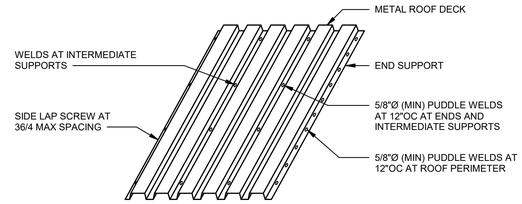
NOTES:
1. NOTIFY ENGINEER IF FRAME SUPPORTS MECHANICAL UNIT AND MECHANICAL UNIT WEIGHT EXCEEDS 300 POUNDS.
2. DETAIL SHOWS DIFFERENT ATTACHMENT METHODS TO DIFFERENT EXISTING FRAME MEMBERS. IF NOT NOTED IN PLAN, USE ATTACHMENT THAT WILL POSITION SUPPORT FRAME TIGHT TO EXISTING ROOF MEMBER. NOTIFY ENGINEER IF CONDITIONS ARE DIFFERENT THAN SHOWN IN SECTIONS A-A OR B - B.
3. WHERE DIMENSION IS LESS THAN 8", OMIT MEMBER 1 PARALLEL TO EXISTING BEAM OR JOIST.
4. COORDINATE LOCATIONS WITH ARCH AND MECHANICAL DRAWINGS.





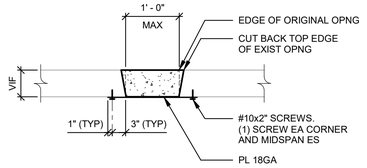
2 S300 ROOF INFILL DETAIL

SCALE: 1 1/2" = 1'-0"



4 S300 ROOF DECK ATTACHMENT DETAIL

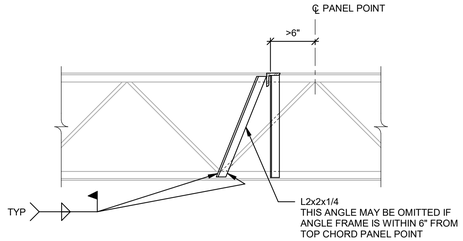
NOT TO SCALE



3 S300 SLAB INFILL DETAIL SMALL OPENINGS

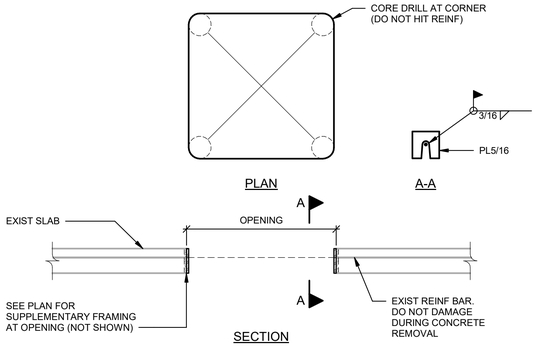
SCALE: 3/4" = 1'-0"

NOTES:
1. USE CAUTION NOT TO CUT OR DAMAGE EXISTING REINFORCEMENT.
2. APPLY BONDING AGENT TO EXISTING SURFACES BEFORE PLACING CONCRETE.
3. FOR SLEEVED OPENING ≤ 6" LEAVE SLEEVE IN PLACE AND DO NOT CUT BACK OPENING.
4. COORDINATE LOCATIONS PER ARCH AND MECH DRAWINGS.



8 S300 JOIST WEB REINFORCING

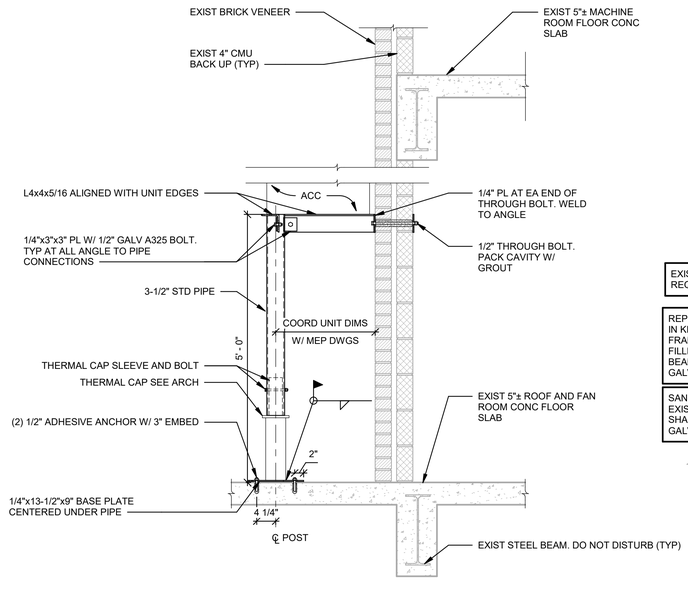
NOT TO SCALE



STEP 1: LOCATE REINFORCING WITH R-METER AND MARK ON SLAB.
STEP 2: INSTALL SUPPLEMENTARY FRAMING.
STEP 3: CORE DRILL EACH CORNER (6" MINIMUM DIAMETER).
STEP 4: SAWCUT TO TANGENT OF CORES. DO NOT CUT BARS, AND DO NOT OVER CUT CORNERS
STEP 5: REMOVE CONCRETE AROUND INDIVIDUAL REINFORCING BARS.
STEP 6: WELD 5/16" PLATE TO EXPOSED BARS.
STEP 7: GROUT BEHIND PLATES.
STEP 8: CUT BARS WITHIN PENETRATION.

5 S300 OPENING IN EXISTING SLAB

SCALE: 3/4" = 1'-0"

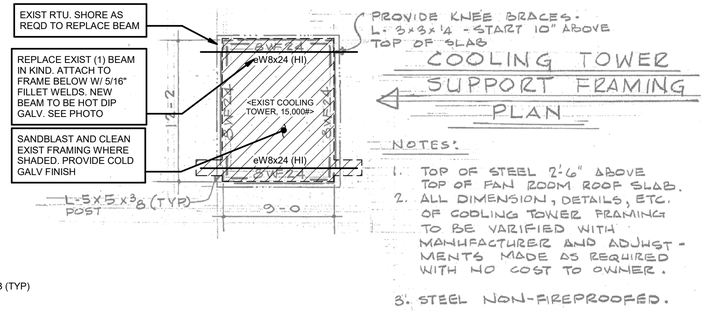


6 S300 SECTION AT RELOCATED RTU

SCALE: 3/4" = 1'-0"

NOTES:
1. ALL STEEL TO BE HOT DIP GALV, TYP.
2. SEE MECH AND ARCH DRAWINGS FOR LOCATIONS OF RELOCATED RTUS. COORD FRAMING DIMENSIONS WITH ARCH AND MECH DRAWINGS. FIELD VERIFY UNITS AND LOCATIONS PRIOR TO STEEL ERECTION.
3. SEE ARCH DWGS FOR FLASHING REQUIREMENTS.





7 S300 COOLING TOWER BEAM REPLACEMENT PLAN

NOT TO SCALE

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STATE OF NEW YORK — JAMES L. DEVERNA — LICENSED PROFESSIONAL ENGINEER — No. 072232

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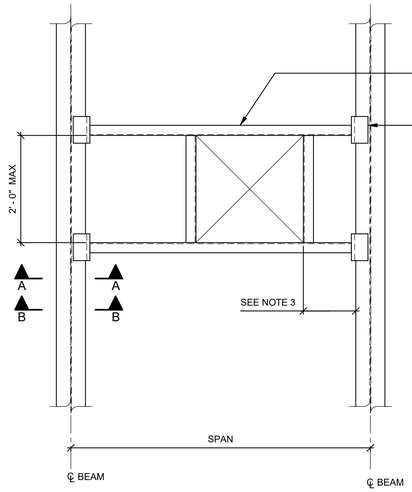
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KMR	JLD
DATE	SCALE
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SHEET TITLE
ADMINISTRATION BUILDING - DETAILS

SHEET NUMBER
S300
SHEET 13 OF 58

14912

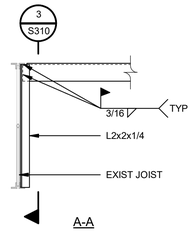
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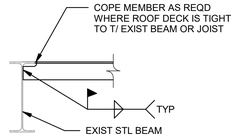
SEE ARCH OR MECH DWGS
FOR FRAME DIMS AND LOCS

SPAN	MEMBER 1	MEMBER 2
L ≤ 4' - 0"	L3x3x1/4	L3x3x1/4
4' - 0" < L ≤ 6' - 0"	L4x4x1/4	L4x3x1/4 (LLV)
6' - 0" < L ≤ 13' - 0"	C6x8.2	L5x3x5/16 (LLV)

PLAN



A-A

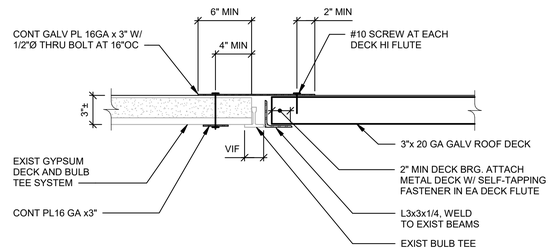


B-B

1 S310 WELDED ANGLE FRAME DETAIL

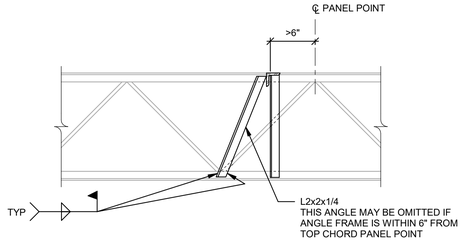
SCALE: 3/4" = 1'-0"

NOTES:
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3. WHERE DIMENSION IS LESS THAN 8", OMIT MEMBER 1 PARALLEL TO EXISTING BEAM OR JOIST.
4. COORDINATE LOCATIONS WITH ARCH AND MECHANICAL DRAWINGS.



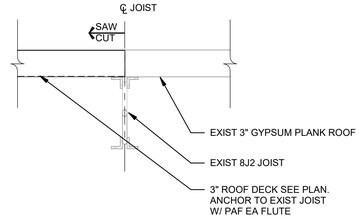
2 S310 ROOF SECTION AT BULB TEE

SCALE: 1 1/2" = 1'-0"



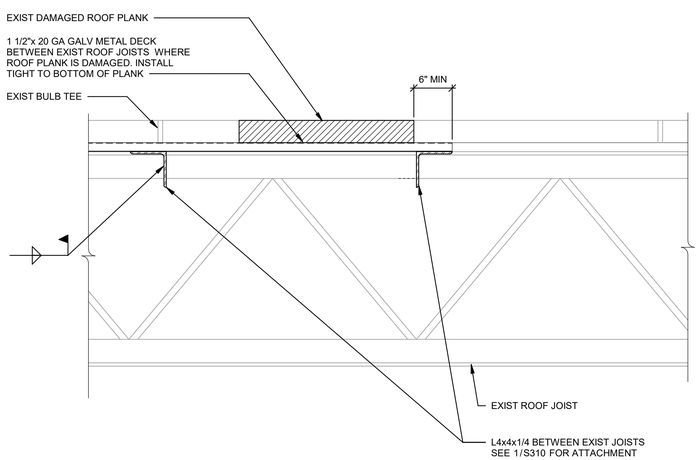
3 S310 JOIST WEB REINFORCING

NOT TO SCALE



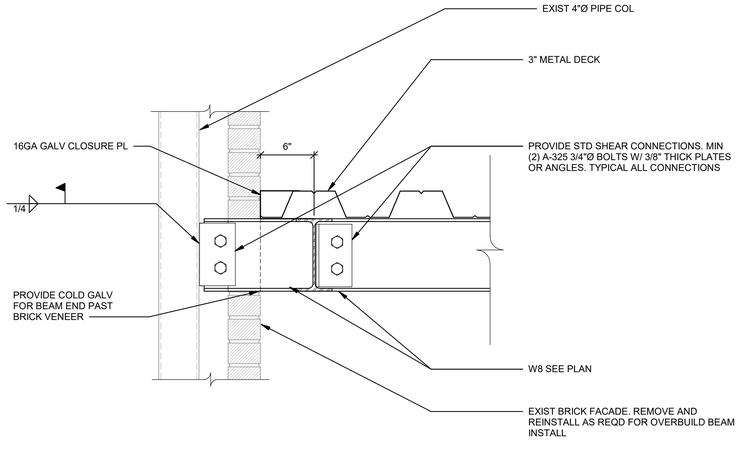
4 S310 SECTION

SCALE: 1 1/2" = 1'-0"



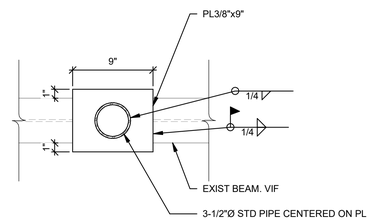
5 S310 ROOF PLANK REPAIR DETAIL

SCALE: 1 1/2" = 1'-0"



6 S310 SECTION

SCALE: 1 1/2" = 1'-0"

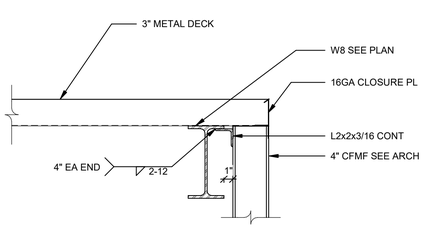


7 S310 SECTION

SCALE: 1 1/2" = 1'-0"

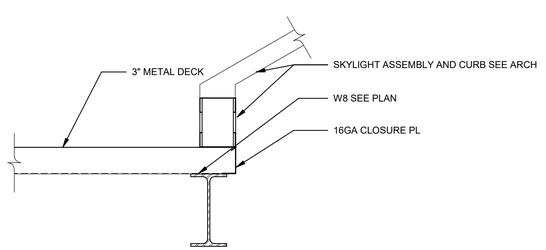
NOTE:

EXIST PLANK NOT SHOWN FOR CLARITY. REMOVE AS REQUIRED AND REPAIR PER 5/S310



8 S310 SECTION

SCALE: 1 1/2" = 1'-0"



9 S310 SECTION

SCALE: 1 1/2" = 1'-0"

NOTE:
LOW ROOF NOT SHOWN FOR CLARITY

bell & spina
ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204 Tel (315) 488 - 0377 Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534 Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK — JAMES L. DELLA — 027228 — LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: September 30,2027

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT NORTH

CONSULTANT

RYAN BIGGS CLARK DAVIS
ENGINEERS, PC
1326 New Seneca Turnpike, Suite B3
Skaneateles, NY 13152 p. 315 685.4732
www.ryanbiggs.com
CERTIFICATE OF AUTHORITY #. 0023272

PROJECT

REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

DRAWN	CHECKED
KMR	JLD
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES - DETAILS

SHEET NUMBER
S310
SHEET 14 OF 58

14912

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EXISTING ROOF SYSTEM DESCRIPTION (ADMINISTRATION BUILDING):

RC-1
- 0.60 EPDM (MECHANICALLY ATTACHED)
- ½" POLYISOCYANURATE INSULATION
- 2-PLY MODIFIED BITUMEN MEMBRANE
- 1" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- METAL DECK

RC-2
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1½" POLYISOCYANURATE INSULATION
- 3" POLYISOCYANURATE INSULATION
- 2-PLY MODIFIED BITUMEN MEMBRANE
- 1" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- METAL DECK

RC-3
- N/A

RC-4
- 0.60 EPDM (MECHANICALLY ATTACHED)
- ¾" POLYISOCYANURATE INSULATION
- BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

RC-5
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1½" POLYISOCYANURATE INSULATION
- BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

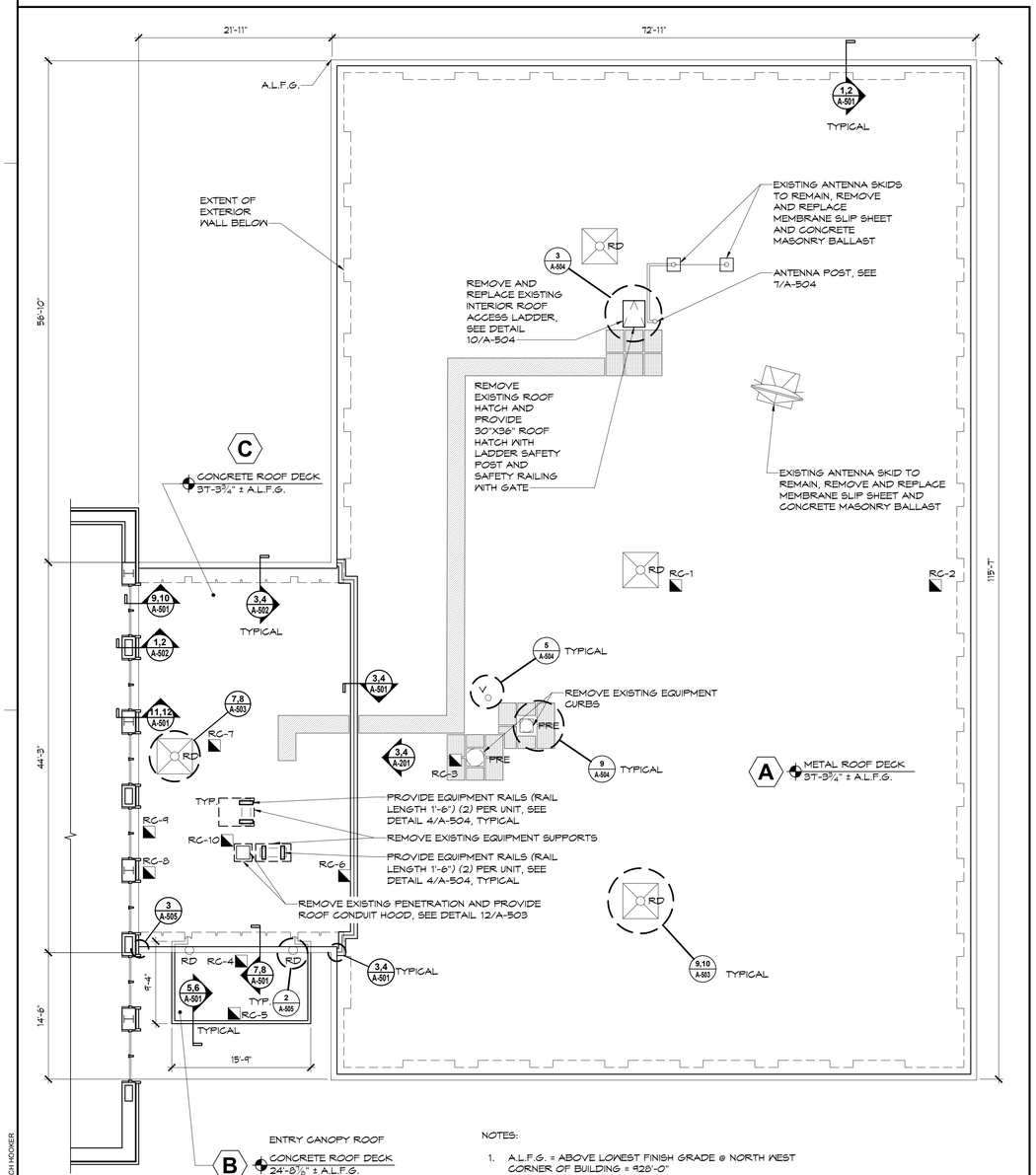
RC-6
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 3" POLYISOCYANURATE INSULATION (TAPERED)
- 2-PLY MODIFIED BITUMEN MEMBRANE
- 1" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- CONCRETE DECK

RC-7
- 0.60 EPDM (MECHANICALLY ATTACHED)
- ¾" POLYISOCYANURATE INSULATION
- 2-PLY MODIFIED BITUMEN MEMBRANE
- 1" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- CONCRETE DECK

RC-8
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1" POLYISOCYANURATE INSULATION
- 2-PLY MODIFIED BITUMEN MEMBRANE
- 1" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- CONCRETE DECK

RC-9
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1" POLYISOCYANURATE INSULATION
- 2-PLY MODIFIED BITUMEN MEMBRANE
- 1" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- CONCRETE DECK

RC-10
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1½" POLYISOCYANURATE INSULATION
- NO VAPOR RETARDER
- CONCRETE DECK



NOTES:
1. A.L.F.G. = ABOVE LOWEST FINISH GRADE @ NORTH WEST CORNER OF BUILDING = 928'-0"

1 ADMINISTRATION BUILDING - LOWER ROOF PLAN
SCALE: 1/8" = 1'-0"

NEW ROOF SYSTEM DESCRIPTION:

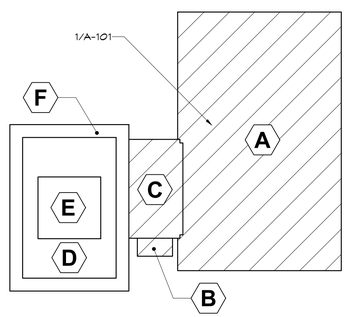
ROOF AREA A ROOF SYSTEM (METAL DECK) - ADMINISTRATION BUILDING
- ½" GYPSUM UNDERLAYMENT BOARD MECHANICALLY FASTENED TO EXISTING METAL DECK
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER OVER UNDERLAYMENT BOARD
- FULLY ADHERED TAPERED POLYISOCYANURATE INSULATION (6½" MINIMUM THICKNESS AT ROOF DRAIN)
- ½" GYPSUM COVERBOARD FULLY ADHERED
- 2 PLY TORCH APPLIED MODIFIED BITUMEN ROOF MEMBRANE

ROOF AREA B ROOF SYSTEM (CONCRETE DECK) - ADMINISTRATION BUILDING
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER FULLY ADHERED TAPERED POLYISOCYANURATE INSULATION (½" MINIMUM THICKNESS AT DRAIN)
- ½" GYPSUM COVERBOARD FULLY ADHERED
- 2 PLY TORCH APPLIED MODIFIED BITUMEN ROOF MEMBRANE

ROOF AREA C ROOF SYSTEM (CONCRETE DECK) - ADMINISTRATION BUILDING
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER
- FULLY ADHERED TAPERED POLYISOCYANURATE INSULATION (6½" MINIMUM THICKNESS AT ROOF DRAIN)
- ½" GYPSUM COVERBOARD FULLY ADHERED
- 2 PLY TORCH APPLIED MODIFIED BITUMEN ROOF MEMBRANE

ROOF GRAPHIC SYMBOLS LEGEND

- RC-# - ROOF CUT LOCATION
- DETAIL TAG
- DETAIL TAG
- ELEVATION TAG
- # - ROOF AREA TAG
- S X":12" - SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION
- CRICKET
- WALKWAY PAD (TYPE 1)
- WALKWAY PAD (TYPE 2)
- ROOF ELEVATION 0'-0"± A.L.F.G. - ROOF ELEVATION TAG WHERE A.L.F.G. = ABOVE LOWEST FINISH GRADE SEE 1/A-101
- CUTLINE



ADMINISTRATION BUILDING KEY PLAN

GENERAL ROOF NOTES (APPLIES TO ADMINISTRATION AND HEALTH SERVICES BUILDINGS):

1. MORE STRINGENT ARCHITECTURAL DETAILS SHALL GOVERN OVER MANUFACTURER'S DETAILS.
2. REMOVE EXISTING ROOF SYSTEM, IN ITS ENTIRETY, DOWN TO THE DECK, INCLUDING ALL METAL FLASHINGS, ROOF GRAVEL STOPS & WALL FLASHINGS UNLESS NOTED OTHERWISE. DECK TYPE AS NOTED ON PLANS. (SEE ROOF TEST CUTS FOR EXISTING ROOF SYSTEM INFORMATION.)
3. DIMENSIONS GIVEN ARE FOR REFERENCE ONLY. FIELD VERIFYING THE EXISTING BUILDING EXTENT AND MEASUREMENTS IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
4. ALL ROOF PENETRATIONS ARE TO BE FLASHED, WHETHER SHOWN OR NOT; ITEMS ARE SHOWN IN THEIR GENERAL LOCATIONS.
5. MINIMUM FINISHED FLASHING HEIGHTS, TOP OF MEMBRANE TO:
   -TOP OF NON-METALLIC FLASHINGS - 8"
   -TOP OF PLUMBING VENT - 18"
   -OR AS SHOWN ON DRAWINGS
6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND CONFIRM THAT DETAILS AS SHOWN WILL INTERFACE WITH THOSE CONDITIONS.
7. WATER DAMAGE NOTE:
   THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE BUILDING DRY DURING ROOFING OPERATIONS. ANY WATER OR DEBRIS ENTERING THE BUILDING CAUSED BY REROOFING WORK SHALL BE CLEANED UP BY THE CONTRACTOR. ANY DAMAGE TO THE BUILDING OR ITS CONTENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. IF WORK AFFECTS THE INTERIOR OF THE BUILDING, PRECAUTIONS SHALL BE TAKEN TO PROTECT THE BUILDING AND IT'S CONTENTS. FOR EXAMPLE: PROTECTION OF A GYM FLOOR.
8. PROVIDE TRAFFIC / WALKWAY PADS AT ALL ROOF ACCESS POINTS, TOP & BOTTOM OF ALL LADDERS, AROUND ALL POWERED ROOFTOP EQUIPMENT, AT ACCESS POINTS TO LARGE HVAC ROOFTOP UNITS, AT MECHANICAL ROOM DOORS AND WHERE SHOWN.
9. ABANDONED PENETRATIONS LESS THAN 12" IN EACH DIMENSION IN METAL ROOF DECKS TO BE COVERED w/ 20 GA. GALV. STEEL SHEET METAL MIN. 4" LARGER THAN OPENING IN ALL DIRECTIONS - FASTEN w/ #14 TEK SCREWS @ 6" O.C. MAX. AROUND PERIMETER OF NEW SHEET METAL. SEE "TYPICAL DECK PATCH DETAIL" FOR LARGER ABANDONED PENETRATIONS.
10. AT ALL ROOFTOP EQUIPMENT NEW & EXISTING (A/C UNITS, RTU'S, ETC.) THE WIRES, PIPES AND / OR CONDUIT SHALL BE INSTALLED IN A PRE-FABRICATED PIPE / CONDUIT CURB AS DETAILED / SPECIFIED, WHETHER SHOWN OR NOT. PITCH POCKETS ARE NOT ACCEPTABLE, UNLESS SHOWN OTHERWISE. REFER TO NOTE 11, E.
11. MECHANICAL
    A. REMOVE AND REINSTALL EXISTING MECHANICAL EQUIPMENT AS REQUIRED FOR INSTALLATION OF NEW ROOF SYSTEM & TO ACHIEVE SPECIFIED CLEARANCES, ie; RAISE AND / OR FLASH PER DETAILS, IF REQUIRED.
    B. DISCONNECT ANY POWER OR PNEUMATIC CONNECTIONS, RECONNECT THE SAME USING ADDITIONAL MATERIAL AS NECESSARY TO REINSTALL. PRIOR TO ROOF REPLACEMENT WORK, THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL UNITS w/ CONTRACTOR AND IDENTIFY ANY NON-OPERATING UNITS, WHICH SHALL BE RESTORED BY THE OWNER.
    C. COORDINATE ALL TEMPORARY ELECTRIC, GAS OR MECHANICAL UNIT etc. SHUTDOWNS WITH OWNER.
    D. PAINT NON-ALUMINUM/COPPER UNITS AND STEEL SUPPORT STRUCTURES WITH PRIME AND 2 FINISH COATS OF ENAMEL PAINT. IDENTIFY UNITS (STENCIL) PER OWNER'S IDENTIFICATION SCHEDULE.DISCONNECT / EXTEND
    E. REPLACE ANY EXTERIOR GAS, REFRIGERANT CONDUIT, CONTROL WIRING, ETC. AS REQUIRED TO ELIMINATE PITCH POCKETS. SERVICES TO BE INSTALLED IN PRE-FABRICATED PIPE/CONDUIT CURBS AS DETAILED / SPECIFIED.
12. ELECTRICAL
    A. REMOVE AND REPLACE EXISTING LIGHTNING PROTECTION SYSTEM.
    B. MOUNT CONDUCTORS TO BACK OF PARAPET AND OFF ROOF MEMBRANE. PER DETAIL ROOFER AND LIGHTNING PROTECTION - CONTRACTORS TO COORDINATE INSTALLATION.
    C. DISCONNECT ANY POWER CONNECTIONS, RECONNECT THE SAME USING ADDITIONAL MATERIAL AS NECESSARY TO REINSTALL. PRIOR TO ROOF REPLACEMENT WORK.
13. INSULATION
    A. INSTALL PRIMARY ('FLAT STOCK') LAYERS. THEN INSTALL TAPERED INSULATION AND MAJOR CRICKETS. STAGGER JOINTS BETWEEN INSULATION LAYERS.
    B. PROVIDE CRICKETS AT HIGH SIDE OF ALL ROOFTOP EQUIPMENT LARGER THAN 2'-0" WIDE OR AT ANY DOWNHILL WALL PROJECTION WHICH MAY POCKET WATER.
    C. FILL GAPS BETWEEN CUT INSULATION AND CURBS/WALLS/EDGE BLOCKING GREATER THAN ¼" WITH SPRAY FOAM INSULATION.
14. ROOF DRAINS
    A. ROOF DRAINS ARE TO BE ADDED OR REPLACED WHERE / IF SHOWN.
    B. USE OF DRAIN INSERTS WILL ONLY BE APPROVED ON A CASE BY CASE BASIS BASED ON FLOW CAPACITY AND CONDITION OF THE ROOF DRAIN BOWL.
    C. ROOF DRAINS TO REMAIN ARE TO HAVE ALL DRAIN BOWLS CLEANED. THE STRAINERS AND CLAMPING RINGS ARE TO BE REPLACED.
    D. AT COMPLETION OF ROOFING OPERATIONS CLEAN ALL ROOF DRAINS FROM ROOF TO LEADER.
    E. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING ROOF DRAINS FOR LEAKS AND FLOW UPON COMPLETION OF CONSTRUCTION. LEAK TEST: PLUG EACH ROOF DRAIN BELOW CONNECTION TO THE ROOF DRAIN LEADER. OBSERVE THE FLOW OF EACH LINE. PROVIDE A WRITTEN REPORT OF THE RESULTS TO THE ONSITE REPRESENTATIVE OR ARCHITECT.
15. WOOD
    A. ALL WOOD OR PLYWOOD INSTALLED IN DIRECT CONTACT WITH MASONRY OR CONCRETE, IS TO BE OF PRESSURE TREATED MATERIALS. ALL OTHER LUMBER TO BE NON-TREATED UNLESS NOTED OTHERWISE.
    B. ALL BLOCKING TO BE SOLID - NO VOIDS OR 'SKIP-FRAMING' ARE PERMITTED. IF WOOD DIMENSIONS ARE NOT GIVEN, STACKED WOOD HEIGHT (3 BOARDS OR LESS) SHALL BE 2x6 MINIMUM.
    C. ALL WOOD TO BE ANCHORED AS SPECIFIED, OR SHOWN. GENERALLY, FASTENER SPACING, NAILS OR SCREWS, NOT MORE THAN 12" O.C. AND ANCHOR BOLTS -⅜" O.D. MIN., NOT MORE THAN 36" O.C. AND FROM ENDS OF BOARDS - 9" MAXIMUM. SEE "TYPICAL BLOCKING FASTENING DETAIL" FOR ADDITIONAL INFORMATION.
    D. BLOCKING CONSIDERED FOR REUSE SHALL BE CHECKED FOR ADEQUATE ANCHORAGE VIA PULL TEST BY CONTRACTOR IN PRESENCE OF ARCHITECT. PROVIDE ADDITIONAL FASTENERS, IF REQUIRED TO ASSURE SOLID ANCHORING. INSTALL ADDITIONAL BLOCKING OVER THE EXISTING AS REQUIRED TO BRING HEIGHT INTO THE SAME PLANE WITH INSULATION HEIGHT. REFER TO NOTE 5 IN DESIGN WIND UPLIFT NOTES FOR PERFORMANCE REQUIREMENTS.
16. FASTENERS
    A. ALL FASTENERS TO BE NON-RUSTING TYPE (HOT DIPPED GALVANIZED, STAINLESS STEEL, CADMIUM PLATED) UNLESS NOTED OTHERWISE.
    B. ALL NAILS SHALL BE SPIRAL OR RING-SHANKED
    C. ALL FASTENERS (NAILS, SCREWS, BOLTS, ETC.) FASTENING OR PENETRATING PRESSURE-TREATED WOOD ARE TO BE OF AUSTENITIC STAINLESS STEEL, TYPE A304 OR A316
    D. FASTENERS IN METAL FLASHINGS - ALL TO BE COMPATIBLE WITH METAL USED; FASTENERS ALL OF STAINLESS STEEL UNLESS NOTED OTHERWISE. FASTENER SPACING, SCREWS, NOT MORE THAN 9" O.C., NAILS USED FOR CLEATING - 3" O.C. UNLESS NOTED OTHERWISE FROM ENDS OF UNITS - 3" MAXIMUM.
    E. POP-RIVETS IN METAL FLASHINGS/COPINGS ARE NOT PERMITTED.
17. MISCELLANEOUS;
    A. ANY METAL COPING OR FASCIA OVERLAPS, FOLDS, OR SEAMS ARE TO BE SOLIDLY BEDDED WITH SEALANT BETWEEN PIECES OF METAL.
    B. ALL FLASHINGS, COPINGS OR ROOF EDGES ETC. SHALL HAVE PREFABRICATED CORNERS. NO CAULKED CORNERS WILL BE ALLOWED.
    C. THE INTENT IS FOR METAL FLASHING HEIGHTS TO ALIGN.
    D. PROVIDE MEMBRANE SLIP SHEETS UNDER ALL BALLASTED GUARDRAIL SYSTEM POINTS OF CONTACT, SATELLITE DISH SKIDS, AND WALKWAY PADS (NOT MANUFACTURED/PROVIDED BY THE MEMBRANE MANUFACTURER)

NEW ROOF SYSTEM 'R' VALUES:

ROOF AREAS A ROOF SYSTEM (METAL DECK) - ADMINISTRATION BUILDING

- OUTSIDE AIR	0.17
- MODIFIED BITUMEN MEMBRANE	0.34
- ½" COVERBOARD	0.56
- TAPERED INSULATION, MINIMUM THICKNESS 6½" AT DRAIN SUMP EDGE	33.0 ci
- RUBBERIZED ASPHALT VAPOR RETARDER	0.12
- ½" UNDERLAYMENT BOARD	0.56
- METAL DECK	0.00
- INSIDE AIR	0.92
TOTAL R VALUE	35.17

ROOF AREA B ROOF SYSTEM (CONCRETE DECK) - ADMINISTRATION BUILDING

- NON-CONDITIONED SPACE

ROOF AREA C ROOF SYSTEM (CONCRETE DECK) - ADMINISTRATION BUILDING

- OUTSIDE AIR	0.17
- MODIFIED BITUMEN MEMBRANE	0.34
- ½" COVERBOARD	0.56
- TAPERED INSULATION, MINIMUM THICKNESS 6½" AT DRAIN SUMP EDGE	33.0 ci
- RUBBERIZED ASPHALT VAPOR RETARDER	0.12
- CONCRETE DECK	0.00
- INSIDE AIR	0.92
TOTAL R VALUE	30.17

bell & spina ARCHITECTS
215 Wyming Street Suite 201 Syracuse, NY 13204
Tel (315) 488 - 0377
Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
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Fax (585) 487 - 5932
info@bellandspina.com
www.bellandspina.com

REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

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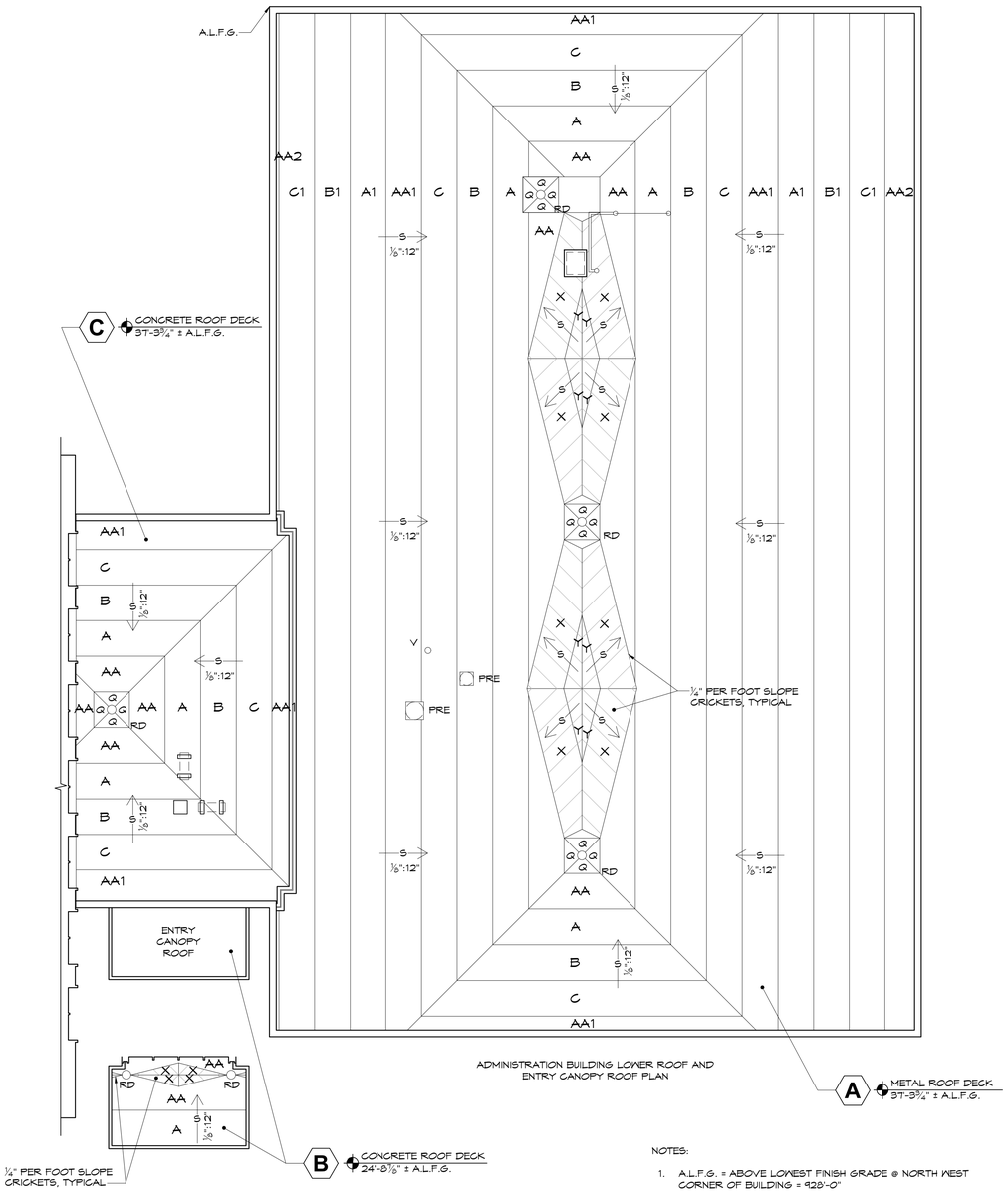
MARK	DATE	DESCRIPTION
		BID DOCUMENTS

DRAWN	CHECKED
TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ADMINISTRATION BUILDING - LOWER ROOF PLAN

SHEET NUMBER
A-101
SHEET 15 OF 58

10/28/2026 1:40:18 PM/ZACH HOOKER



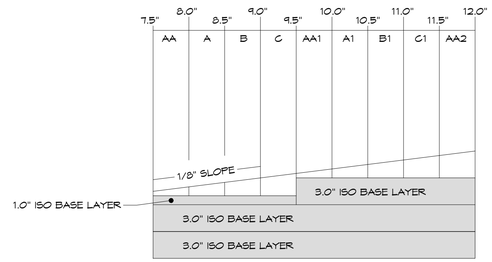
ADMINISTRATION BUILDING LOWER ROOF AND ENTRY CANOPY ROOF PLAN

NOTES:

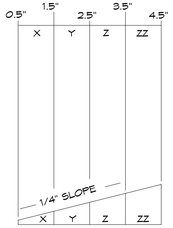
1. A.L.F.G. = ABOVE LOWEST FINISH GRADE @ NORTH WEST CORNER OF BUILDING = 928'-0"

1 ADMINISTRATION BUILDING - LOWER ROOF TAPERED INSULATION PLAN

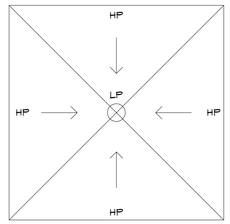
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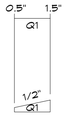
TAPER PROFILE: ⅛" / FT



CRICKET PROFILE: ¼" / FT



SUMP VIEW

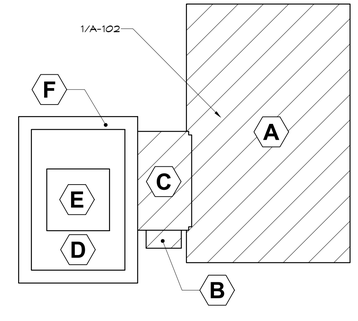


SUMP PROFILE

TARGET 4'X4' SUMP

ROOF GRAPHIC SYMBOLS LEGEND

- # - ROOF AREA TAG
- S X":12" - SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION
- CRICKET
- ROOF ELEVATION 0'-0" ± A.L.F.G. - ROOF ELEVATION TAG WHERE A.L.F.G. = ABOVE LOWEST FINISH GRADE SEE 1/A-102
- CUTLINE



ADMINISTRATION BUILDING KEY PLAN

10/28/2026 1:40:22 PM/ZACH HOOKER

bell & spina ARCHITECTS
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1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
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REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS

BINGHAMTON UNIVERSITY

4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

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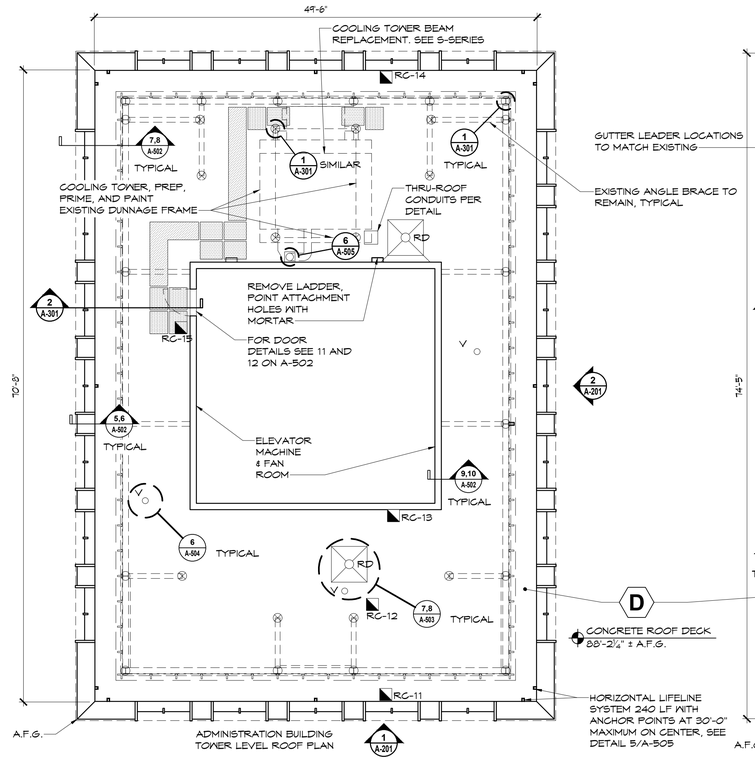
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TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

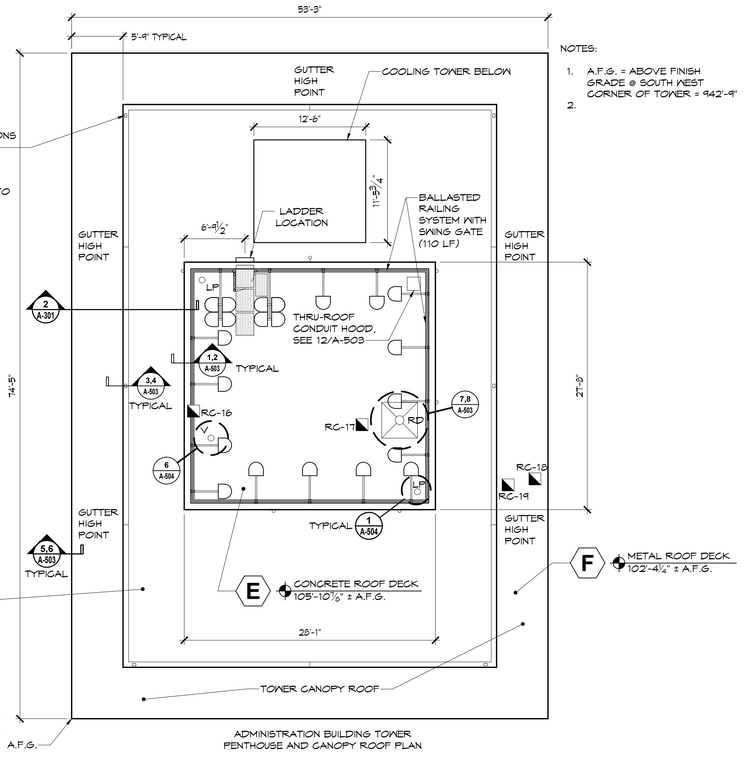
SHEET TITLE

ADMINISTRATION BUILDING - LOWER ROOF TAPERED INSULATION PLAN

SHEET NUMBER A-102

SHEET 16 OF 58





NOTES:

1. A.F.G. = ABOVE FINISH GRADE @ SOUTH WEST CORNER OF TOWER = 942'-9"
2.

1 ADMINISTRATION BUILDING - TOWER ROOF PLAN ROOF D

SCALE: 1/8" = 1'-0"

ADMINISTRATION BUILDING - TOWER ROOF PLAN ROOF E AND F

NEW ROOF SYSTEM DESCRIPTION:

ROOF AREAS D & E ROOF SYSTEM (CONCRETE DECK) - ADMINISTRATION BUILDING

- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER
- FULLY ADHERED TAPERED POLYISOCYANURATE INSULATION (6½" MINIMUM THICKNESS AT ROOF DRAIN)
- ½" COVERBOARD FULLY ADHERED
- 2 PLY TORCH APPLIED MODIFIED BITUMEN ROOF MEMBRANE

ROOF AREA F ROOF SYSTEM (METAL DECK) - ADMINISTRATION BUILDING

- ½" UNDERLAYMENT BOARD MECHANICALLY FASTENED TO EXISTING METAL DECK
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER OVER UNDERLAYMENT BOARD
- FULLY ADHERED TAPERED POLYISOCYANURATE INSULATION (½" MINIMUM THICKNESS AT GUTTER EDGE)
- ½" COVERBOARD FULLY ADHERED
- 2 PLY TORCH APPLIED MODIFIED BITUMEN ROOF MEMBRANE

NEW ROOF SYSTEM 'R' VALUES:

ROOF AREAS D & E ROOF SYSTEM (CONCRETE DECK) - ADMINISTRATION BUILDING	
- OUTSIDE AIR	0.17
- MODIFIED BITUMEN MEMBRANE	0.34
- ½" COVERBOARD	0.56
- TAPERED INSULATION, MINIMUM THICKNESS 6½" AT DRAIN SUMP EDGE	33.0 ci
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER	0.12
- CONCRETE DECK	0.00
- INSIDE AIR	0.92
TOTAL R VALUE	35.17

ROOF AREA F ROOF SYSTEM (METAL DECK) - ADMINISTRATION BUILDING

- NON-CONDITIONED SPACE

ROOF GRAPHIC SYMBOLS LEGEND

- RC-# - ROOF CUT LOCATION
- DETAIL TAG
- DETAIL TAG
- ELEVATION TAG
- # - ROOF AREA TAG
- S X":12" - SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION
- CRICKET
- WALKWAY PAD (TYPE 1)
- WALKWAY PAD (TYPE 2)
- ROOF ELEVATION 0'-0"± A.F.G. - ROOF ELEVATION TAG WHERE A.F.G. = ABOVE FINISH GRADE SEE 1/A-103 AND 2/A-103

EXISTING ROOF SYSTEM DESCRIPTION:

RC-11
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 4" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

RC-12
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 2" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

RC-13
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 2" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

RC-14
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 4" POLYISOCYANURATE INSULATION (2 LAYERS)
- ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

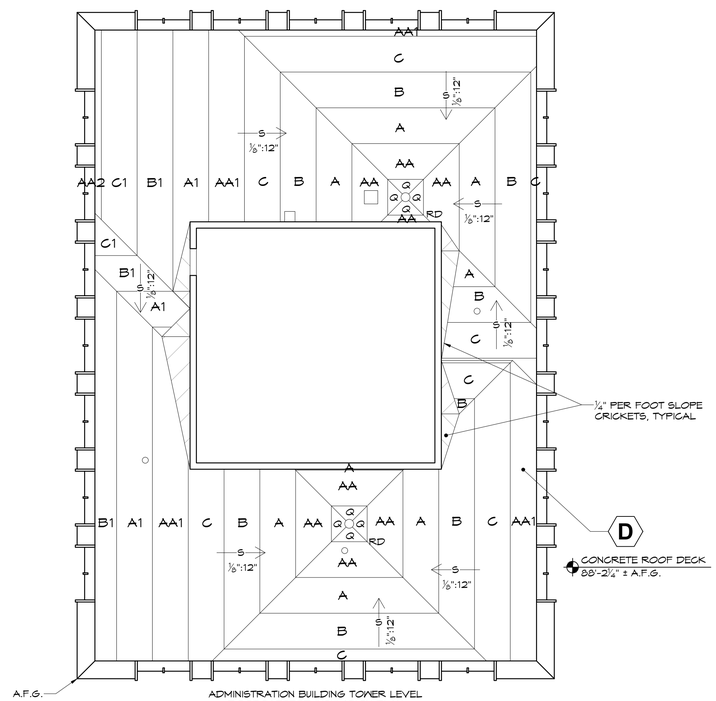
RC-15
- ROOF SPIKE - CONCRETE DECK TO TOP OF DOOR SILL 7½"

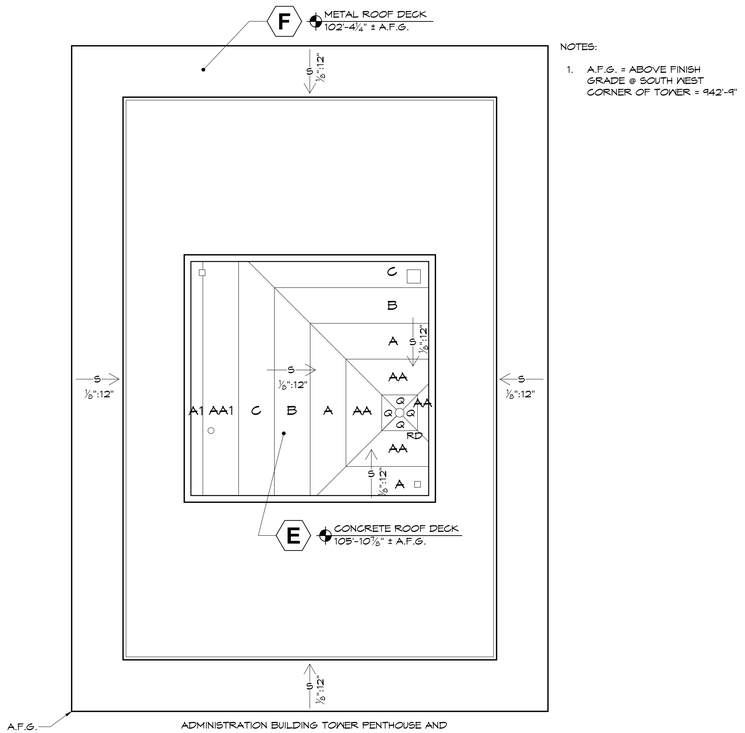
RC-16
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 4½" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

RC-17
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1½" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER ON
- CONCRETE DECK

RC-18
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1" POLYISOCYANURATE INSULATION (TAPERED AT EDGE)
- ASPHALTIC VAPOR RETARDER ON
- METAL DECK

RC-19
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER ON
- METAL DECK



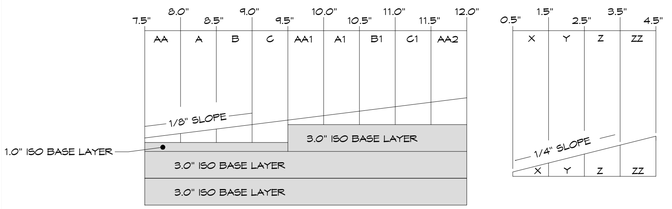


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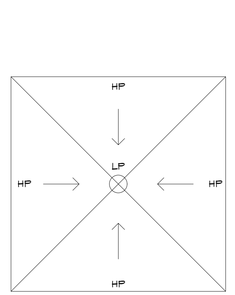
2 ADMINISTRATION BUILDING - TOWER ROOF TAPERED INSULATION PLANS

SCALE: 1/8" = 1'-0"

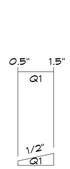


TAPER PROFILE: ⅛" / FT

CRICKET PROFILE: ¼" / FT

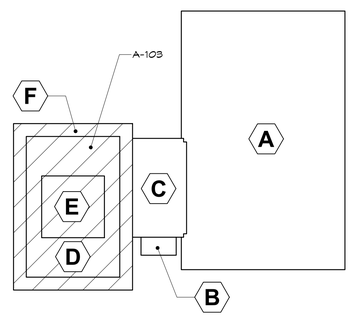


SUMP VIEW



SUMP PROFILE

TARGET 4'X4' SUMP



ADMINISTRATION BUILDING KEY PLAN

bell & spina ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204
Tel (315) 488 - 0377 Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
Tel (585) 200 - 5035 Fax (585) 487 - 5532
info@bellandspina.com
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CONSULTANT

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BINGHAMTON UNIVERSITY

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BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER **071108-00**

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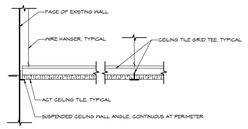
SHEET TITLE

ADMINISTRATION BUILDING - TOWER ROOF PLANS

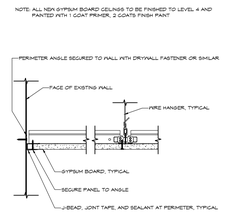
SHEET NUMBER **A-103**

SHEET 17 OF 58

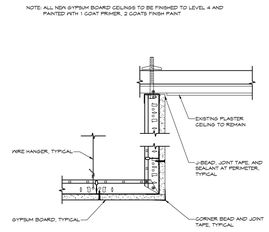
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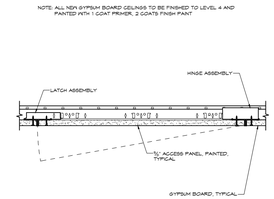
1 ACT CEILING PERIMETER DETAIL
SCALE: 1 1/2" = 1'-0"



2 GYPSUM CEILING PERIMETER DETAIL
SCALE: 1 1/2" = 1'-0"



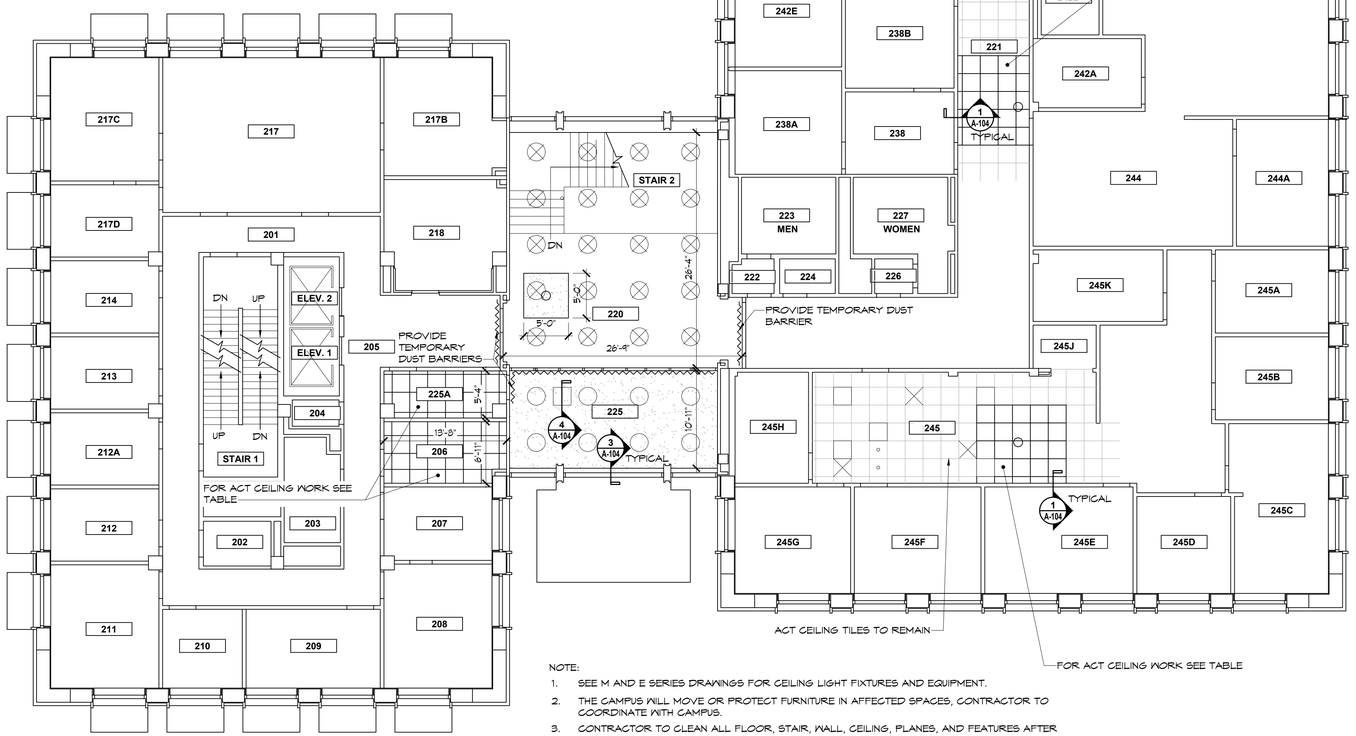
3 GYPSUM CEILING DETAIL AT WINDOWS
SCALE: 1 1/2" = 1'-0"



4 GYPSUM CEILING ACCESS PANEL DETAIL
SCALE: 1 1/2" = 1'-0"

ROOM FINISH SCHEDULE

SPACE	CEILING				GENERAL REMARKS
ROOM	MATERIAL	HEIGHT	FINISH	COLOR	
STAIR 3	PLASTER	13'-8"	PAINT	MATCH EXISTING	PATCH AND MATCH 25 SF PLASTER CEILING AROUND ROOF DRAIN, PREP AND PAINT ENTIRE CEILING
206	ACT CEILING	8'-7"	N/A	MATCH EXISTING	MAIN TEES TO REMAIN. REMOVE AND REINSTALL SUB TEES. REMOVE AND REPLACE ACT CEILING TILES AS SHOWN.
220/STAIR 2	PLASTER	8'-0"	PAINT	MATCH EXISTING	PATCH AND MATCH 25 SF PLASTER CEILING AROUND ROOF DRAIN, PREP AND PAINT ENTIRE CEILING
221	ACT CEILING	8'-0"	N/A	MATCH EXISTING	MAIN TEES TO REMAIN. REMOVE AND REINSTALL SUB TEES. REMOVE AND REPLACE ACT CEILING TILES AS SHOWN, 90 SF.
225	PLASTER	8'-7"	PAINT	MATCH EXISTING	REPLACE ENTIRE PLASTER CEILING, PREP AND PAINT ENTIRE CEILING
225A	ACT CEILING	8'-7"	N/A	MATCH EXISTING	MAIN TEES TO REMAIN. REMOVE AND REINSTALL SUB TEES. REMOVE AND REPLACE ACT CEILING TILES AS SHOWN.
245	ACT CEILING	8'-0"	N/A	MATCH EXISTING	MAIN TEES TO REMAIN. REMOVE AND REINSTALL SUB TEES. REMOVE AND REPLACE ACT CEILING TILES AS SHOWN, 100 SF.
805	ACT CEILING	8'-0"	N/A	MATCH EXISTING	MAIN TEES TO REMAIN. REMOVE AND REINSTALL SUB TEES. REMOVE AND REPLACE ACT CEILING TILES AS SHOWN.
809	ACT CEILING	8'-0"	N/A	MATCH EXISTING	MAIN TEES TO REMAIN. REMOVE AND REINSTALL SUB TEES. REMOVE AND REPLACE ACT CEILING TILES AS SHOWN.



NOTE:
1. SEE M AND E SERIES DRAWINGS FOR CEILING LIGHT FIXTURES AND EQUIPMENT.
2. THE CAMPUS WILL MOVE OR PROTECT FURNITURE IN AFFECTED SPACES, CONTRACTOR TO COORDINATE WITH CAMPUS.
3. CONTRACTOR TO CLEAN ALL FLOOR, STAIR, WALL, CEILING, PLANES, AND FEATURES AFTER COMPLETION OF WORK ON SECOND FLOOR AND FIRST FLOOR LOBBY SPACE BELOW.

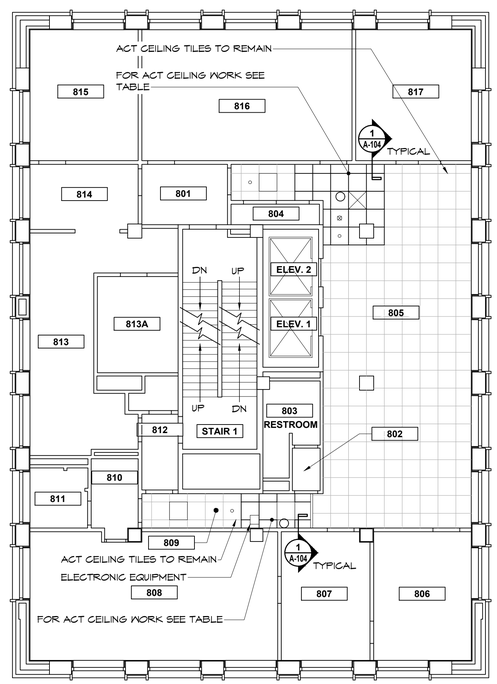
5 ADMINISTRATION BUILDING - SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND:

ALL LOCATIONS ARE APPROXIMATE

- 2' X 2' ACT
- 2' X 4' ACT
- GYPSUM DRYWALL
- 2' X 4' LIGHT
- 2' X 2' LIGHT
- AIR SUPPLY/RETURN
- DOWNLIGHTS
- SMOKE DETECTORS/SPRINKLERS
- ROOF DRAIN

NOTE: SEE M AND E SERIES DRAWINGS FOR CEILING LIGHT FIXTURES AND EQUIPMENT



6 ADMINISTRATION BUILDING - EIGHTH FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

10/28/2026 2:23:11 PM/ZACH HOOKER

bell & spina ARCHITECTS
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Tel (315) 488-0377 Fax (315) 487-5947
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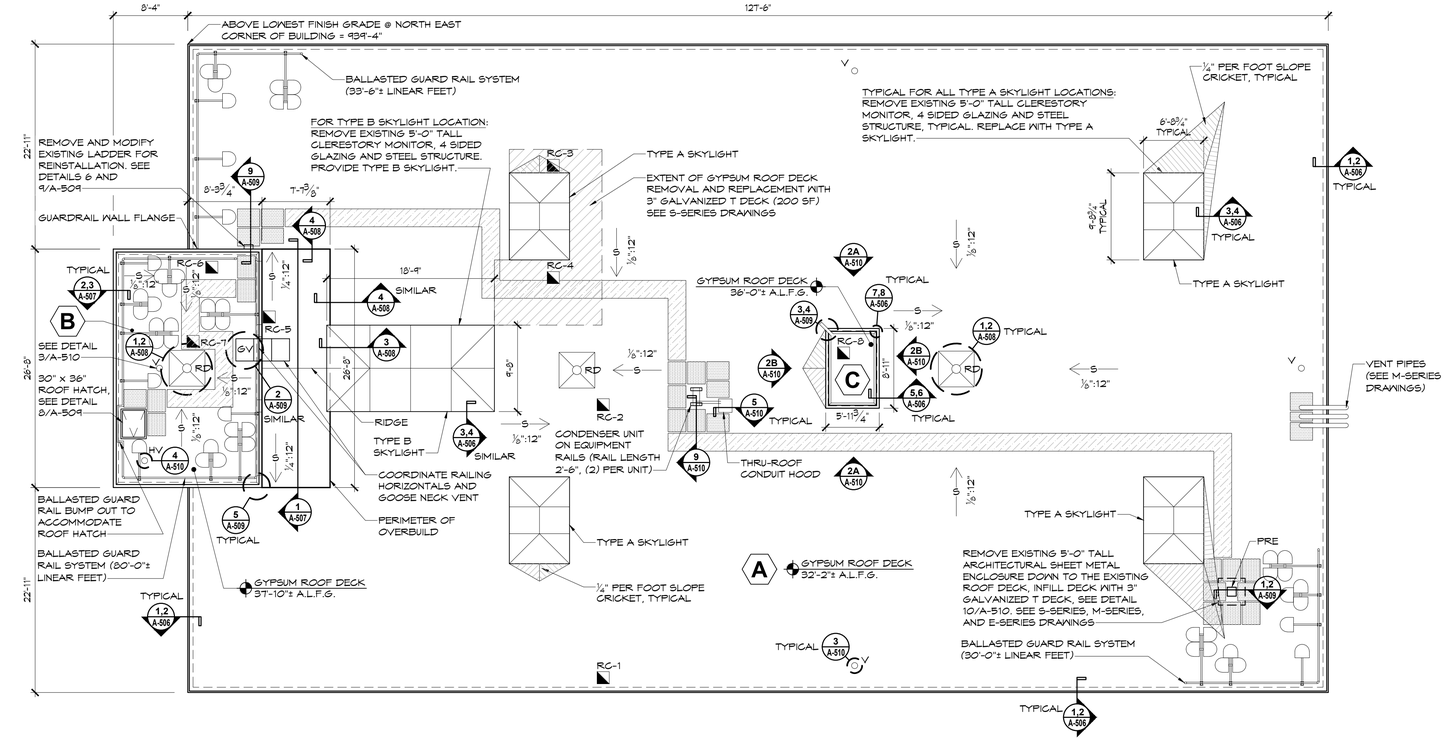
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DRAWN TJG | CHECKED JDT/DKA
DATE 11/02/2026 | SCALE AS NOTED

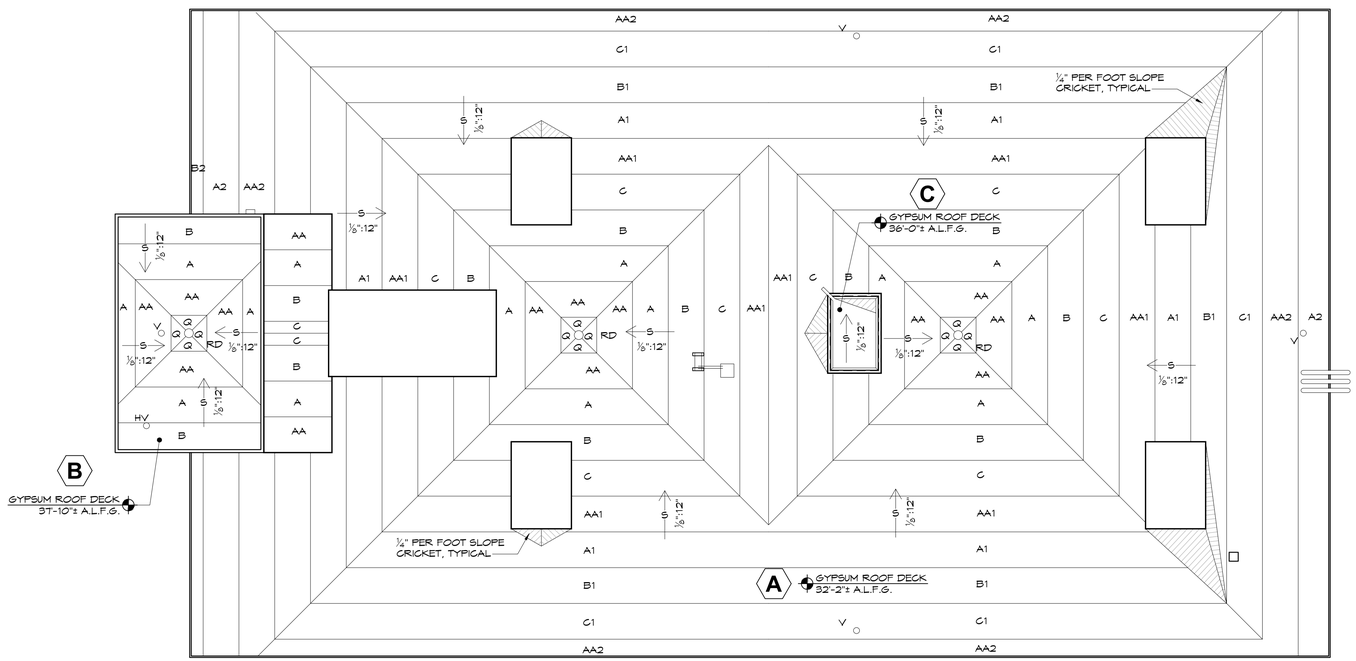
SHEET TITLE
ADMINISTRATION BUILDING - REFLECTED CEILING PLANS AND DETAILS

SHEET NUMBER A-104
SHEET 18 OF 58



1 HEALTH SERVICES BUILDING - ROOF PLAN

SCALE: 1/8" = 1'-0"



2 HEALTH SERVICES BUILDING - TAPERED INSULATION PLAN

SCALE: 1/8" = 1'-0"

NEW ROOF SYSTEM DESCRIPTION:

ROOF AREAS A-C ROOF SYSTEM (GYPSUM DECK) - HEALTH SERVICES BUILDING

- FULLY-ADHERED 60 MIL FLEECEBACK EPDM MEMBRANE
- ½" GYPSUM COVERBOARD FULLY ADHERED
- FULLY ADHERED TAPERED POLYISOCYANURATE INSULATION (6½" MINIMUM THICKNESS AT ROOF DRAIN)
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER OVER NAILED ASPHALT BASE SHEET ON
- EXISTING GYPSUM DECK

NEW ROOF SYSTEM 'R' VALUES

ROOF AREAS A, B, AND C:

- OUTSIDE AIR	0.17
- EPDM MEMBRANE	0.34
- ½" COVERBOARD	0.56
- TAPERED POLYISOCYANURATE INSULATION, MINIMUM THICKNESS 6½" AT DRAIN SUMP EDGE	33.0 ci
- TORCH APPLIED MODIFIED BITUMEN VAPOR RETARDER	0.12
- NAILED ASPHATIC BASE SHEET	0.12
- EXISTING GYPSUM DECK	0.92
- INSIDE AIR	0.92
TOTAL R VALUE	36.15

INSULATION MEETS OR EXCEEDS REQUIREMENTS IECC

ROOF GRAPHIC SYMBOLS LEGEND

- RC-# - ROOF CUT LOCATION
- - DETAIL TAG
- - DETAIL TAG
- - ELEVATION TAG
- # - ROOF AREA TAG
- S X":12" - SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION
- - CRICKET
- - WALKWAY PAD (TYPE 1)
- - WALKWAY PAD (TYPE 2)
- ROOF ELEVATION 0'-0"± A.L.F.G. - ROOF ELEVATION TAG WHERE A.L.F.G. = ABOVE LOWEST FINISH GRADE SEE 1/A-109

EXISTING ROOF SYSTEM DESCRIPTION:

RC-1
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 6¼" POLYISOCYANURATE INSULATION (3 LAYERS)
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK

RC-2
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 2" POLYISOCYANURATE INSULATION
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK

RC-3
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 5" POLYISOCYANURATE INSULATION (3 LAYERS)
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK

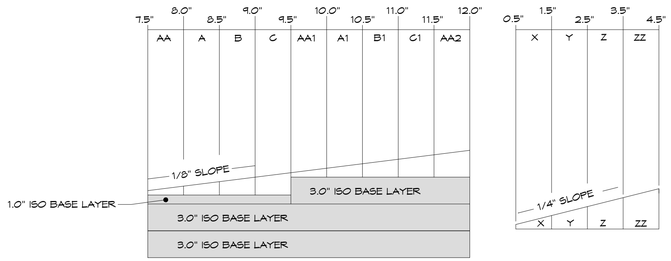
RC-4
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 4" POLYISOCYANURATE INSULATION (2 LAYERS)
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK

RC-5
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 7" POLYISOCYANURATE INSULATION (3 LAYERS)
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK

RC-6
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 4" POLYISOCYANURATE INSULATION (2 LAYERS)
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER
- EXTRA LAYER OF VAPOR RETARDER USED AT FLASHING
- GYPSUM DECK

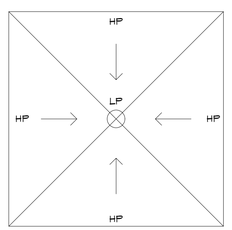
RC-7
- 0.60 EPDM (MECHANICALLY ATTACHED)
- 1½" POLYISOCYANURATE INSULATION
- 1" TAPERED " POLYISOCYANURATE INSULATION
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK

RC-8
- 0.60 EPDM (MECHANICALLY ATTACHED)
- WOOD FIBER TAPERED EDGE STRIP
- 1½" POLYISOCYANURATE INSULATION
- 2-PLY BUILT-UP ROOF ASPHALTIC VAPOR RETARDER ON GYPSUM DECK



TAPER PROFILE: ⅛" / FT

CRICKET PROFILE: ¼" / FT



SUMP VIEW



SUMP PROFILE

TARGET 4'X4' SUMP

bell & spina ARCHITECTS
215 Wyoming Street, Suite 201, Syracuse, NY 13204
1163 Pittsford-Victor Rd, Suite 200, Pittsford, NY 14534
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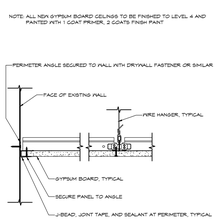
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DRAWN	CHECKED
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DATE	SCALE
11/02/2026	AS NOTED

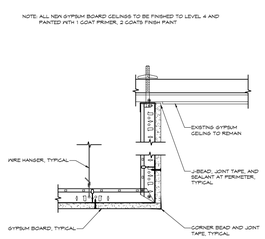
SHEET TITLE
HEALTH SERVICES BUILDING - ROOF PLANS

SHEET NUMBER
A-105
SHEET 19 OF 58

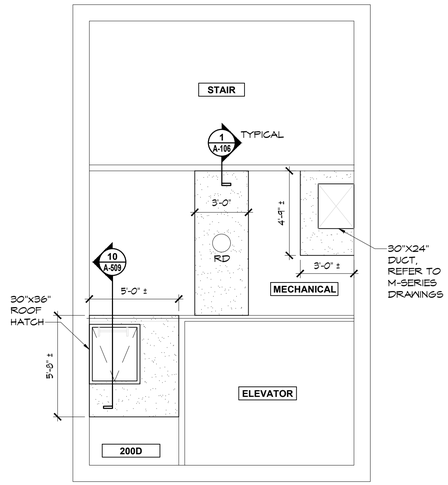
10/28/2026 1:42:56 PM ZACH HOOKER



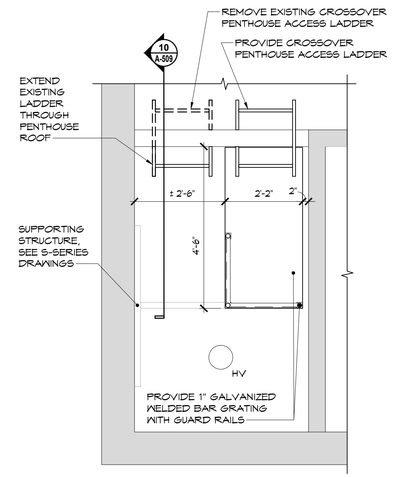
1 GYPSUM CEILING PERIMETER DETAIL
SCALE: 1 1/2" = 1'-0"



2 GYPSUM CEILING DETAIL AT SOFFITS
SCALE: 1 1/2" = 1'-0"



3 HEALTH SERVICES PENTHOUSE REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



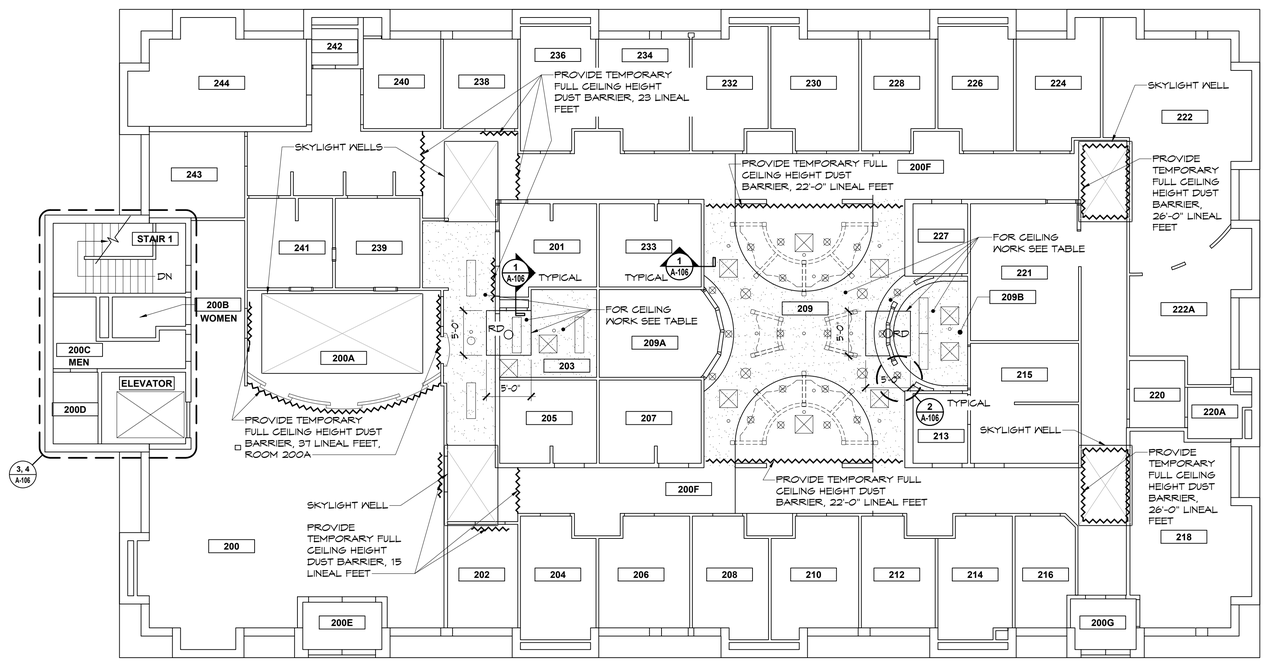
4 PARTIAL PENTHOUSE FLOOR PLAN
SCALE: 1/2" = 1'-0"

NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL SKYLIGHT WORK WITH THE CAMPUS AND THE FACILITY AND PROVIDE ONE WEEK NOTICE IN ADVANCE OF PLANNED WORK AFFECTING THE INTERIOR.
2. SEQUENCING OF INTERIOR SKYLIGHT WORK REQUIRING CORRIDOR CLOSURE SHALL NOT AT ANY TIME INVOLVE WORK AT MORE THEN ONE SKYLIGHT.
3. CONTRACTOR TO PROVIDE TEMPORARY EGRESS SIGNAGE TO DIRECT OCCUPANTS TO EXITS WHEN INTERIOR WORK IS ONGOING.
4. THE CAMPUS WILL MOVE OR PROTECT FURNITURE IN AFFECTED SPACES, CONTRACTOR TO COORDINATE WITH CAMPUS.

ROOM FINISH SCHEDULE

SPACE	CEILING				
ROOM	MATERIAL	HEIGHT	FINISH	COLOR	GENERAL REMARKS
200A SKYLIGHT WELL	GYPSUM BOARD	VARIES, 12'-1" MAX	PAINT	WHITE	SEE DETAIL 3/A-505 GYPSUM WALL BOARD AROUND ENTIRE SKYLIGHT WELL, 250 SF, TO MATCH EXISTING. PAINT ALL GYPSUM IN WELL DOWN TO WOOD SOFFIT TRIM, 400 SF
200F SKYLIGHT WELLS	GYPSUM BOARD	VARIES, 14'-2" MAX	PAINT	WHITE	ALL 4 TYPE A SKYLIGHT WELLS ARE COMBINED HERE. SEE DETAIL 4/A-506 GYPSUM WALL BOARD AROUND EACH SKYLIGHT WELL, 70 SF, TO MATCH EXISTING. PAINT ALL GYPSUM IN WELL DOWN TO HORIZONTAL CEILING, 150 SF
203/ HALLWAY	GYPSUM BOARD	8'-0"	PAINT	WHITE	PATCH AND MATCH GYPSUM WALL BOARD CEILING AT ROOF DRAIN. PAINT CEILING, 310 SF
209/209B	GYPSUM BOARD	T-9"/8'-0"	PAINT	WHITE/ PURPLE	PATCH AND MATCH GYPSUM WALL BOARD CEILING AND SOFFIT AT ROOF DRAIN. PAINT CEILING, 550 SF
200D & MECHANICAL	GYPSUM BOARD	VARIES, 15'-3" MAX	PAINT	WHITE	MECHANICAL SPACE WITHIN PENTHOUSE. PATCH AND MATCH GYPSUM WALL BOARD AND PAINT TO MATCH EXISTING CEILING, 3 LOCATIONS, TOTAL OF 80 SF



5 HEALTH SERVICES REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND:

ALL LOCATIONS ARE APPROXIMATE

- GYPSUM DRYWALL
- ROOF DRAIN
- DUST BARRIER
- AIR SUPPLY/RETURN
- CIRCULAR DOWNLIGHTS
- CIRCULAR DOWNLIGHTS
- SMOKE DETECTORS/SPRINKLERS

bell & spina ARCHITECTS
215 Wyoming Street Suite 201 Syracuse, NY 13204
Tel (315) 488 - 0377 Fax (315) 487 - 5947
1163 Pittsford-Victor Rd Suite 200 Pittsford, NY 14534
Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

REGISTERED ARCHITECT DOUGLAS K. ARENA 032659 STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.
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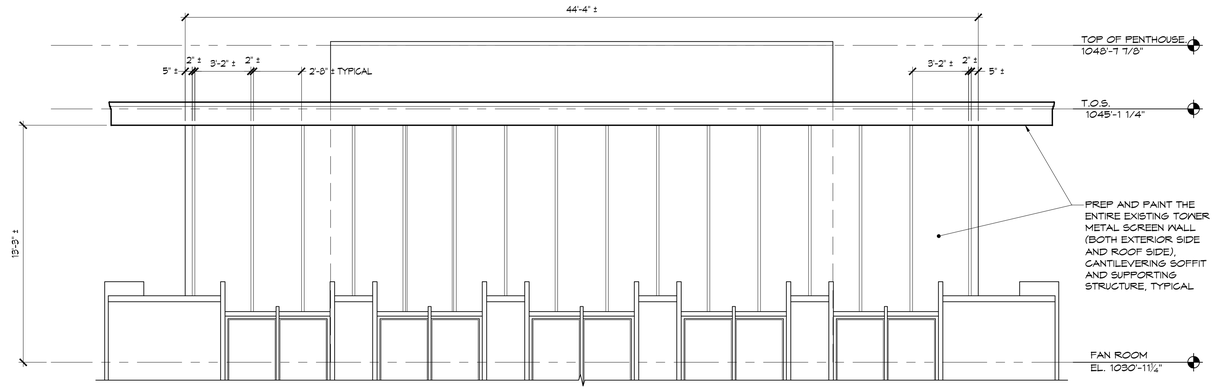
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		PRE-BID SUBMISSION

DRAWN	CHECKED
TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

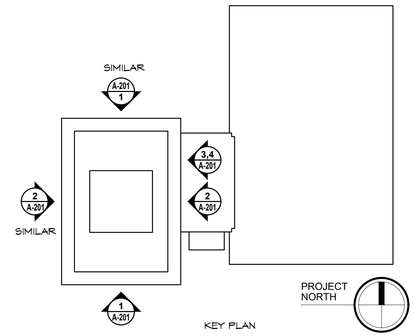
SHEET TITLE
HEALTH SERVICES BUILDING - REFLECTED CEILING PLAN

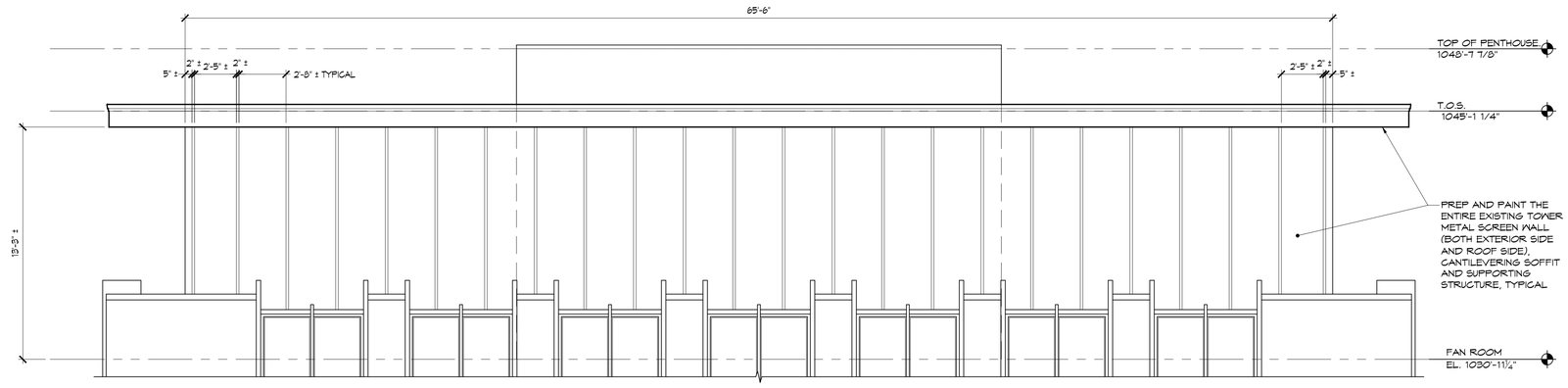
SHEET NUMBER
A-106
SHEET 20 OF 58

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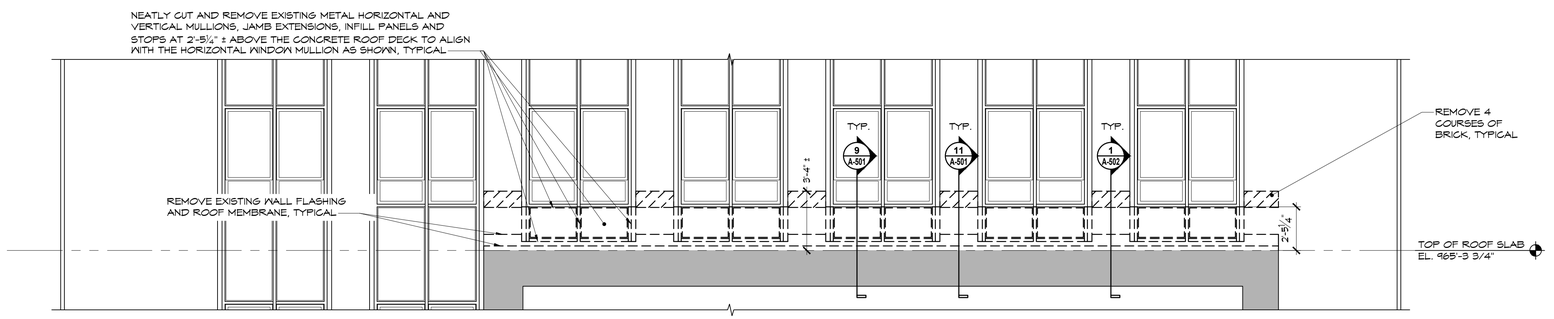


1 ADMINISTRATION BUILDING - TOWER ROOF SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

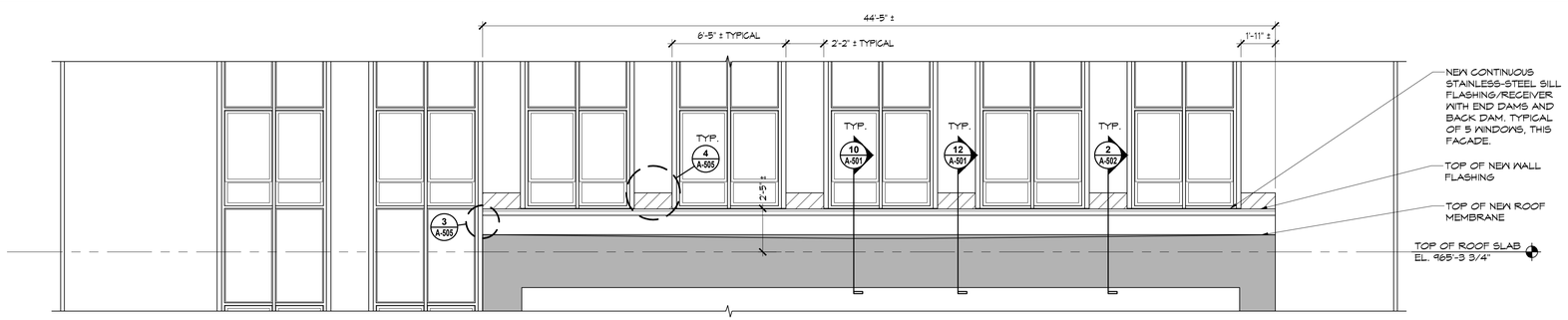




2 ADMINISTRATION BUILDING - TOWER ROOF EAST ELEVATION
SCALE: 1/4" = 1'-0"



3 ADMINISTRATION BUILDING - LOWER ROOF EAST ELEVATION - REMOVALS
SCALE: 1/4" = 1'-0"



4 LOWER ROOF EAST ELEVATION - NEW WORK
SCALE: 1/4" = 1'-0"

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ARCHITECTS
215 Wyoming Street
Suite 201
Syracuse, NY 13204
Tel (315) 488 - 0377
Fax (315) 487 - 5947
1163 Pittsford-Victor Rd
Suite 200
Pittsford, NY 14534
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Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

REGISTERED ARCHITECT
DOUGLAS K. ARENA
032669
STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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MARK	DATE	DESCRIPTION
		BID DOCUMENTS

DRAWN	CHECKED
TJG	JDT/DKA
DATE	**SCALE**
11/02/2026	AS NOTED

SHEET TITLE
ADMINISTRATION BUILDING - ELEVATIONS

SHEET NUMBER
A-201
SHEET 21 OF 58



PREP, PRIME, AND PAINT THE ENTIRE EXISTING METAL PARAPET WALL AS SHOWN AROUND THE FULL PERIMETER OF ROOF AREA D. COLOR TO MATCH EXISTING



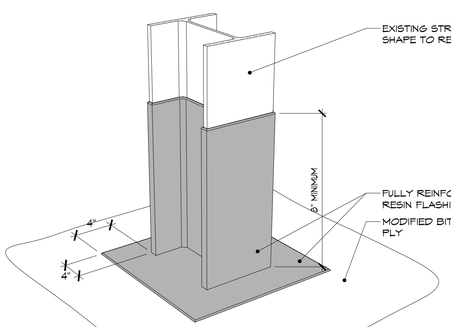
PREP, PRIME, AND PAINT THE ENTIRE EXISTING METAL SCREEN WALL (BOTH EXTERIOR SIDE AND ROOF SIDE), CANTILEVERING SOFFIT AND SUPPORTING STRUCTURE, TYPICAL



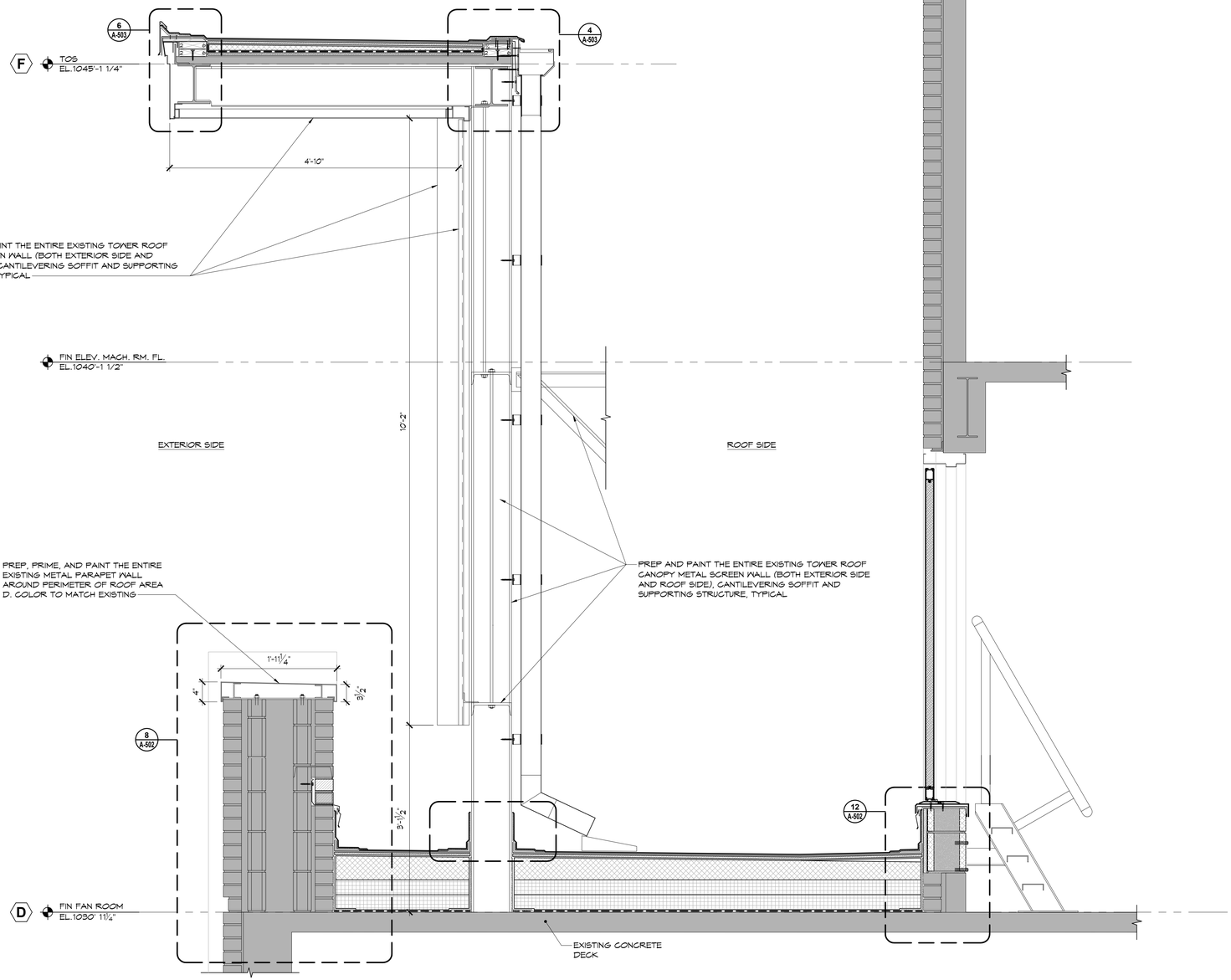
REMOVE EXISTING EXPANSION JOINT COVER PLATES. PREP, PRIME, PAINT, AND REINSTALL IN FULL BED OF SEALANT. SECURE WITH NEW STAINLESS-STEEL SHEET METAL SCREWS



PREP, PRIME, AND PAINT THE ENTIRE EXISTING METAL SCREEN WALL (BOTH EXTERIOR SIDE AND ROOF SIDE), CANTILEVERING SOFFIT AND SUPPORTING STRUCTURE, TYPICAL



1 LIQUID RESIN FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



2 WALL SECTION
SCALE: 1" = 1'-0"

10/28/2026 1:40:52 PM ZACH HOOKER

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ARCHITECTS
215 Wyoming Street, Suite 201, Syracuse, NY 13204
Tel (315) 488-0377 Fax (315) 487-5947
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REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK

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PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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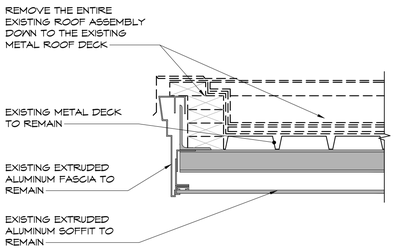
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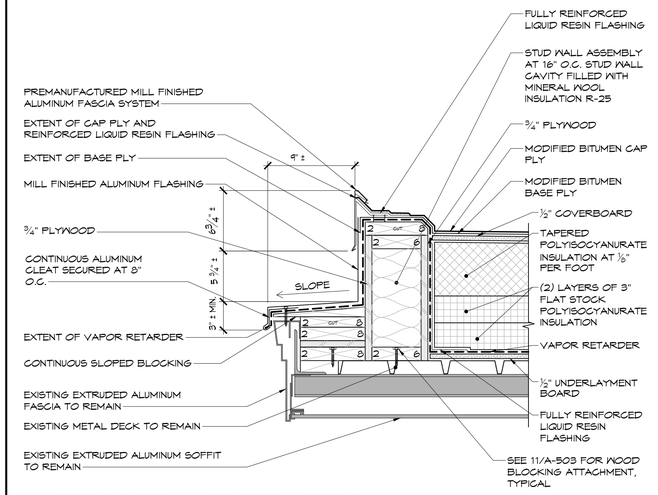
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HV	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ADMINISTRATION BUILDING - WALL SECTION

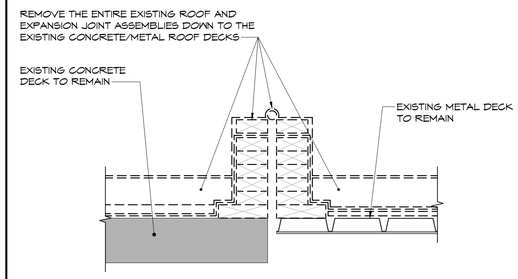
SHEET NUMBER
A-301
SHEET 22 OF 58



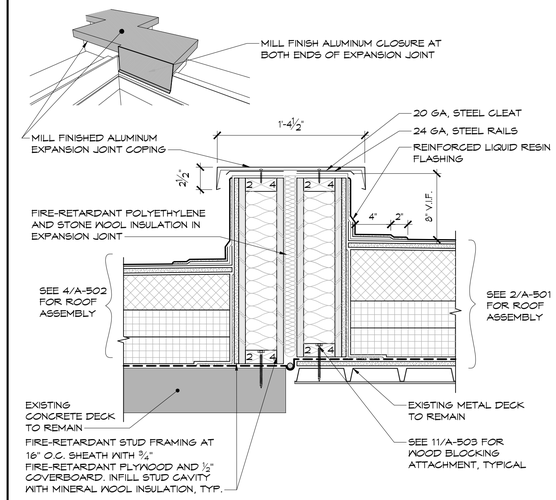
1 ROOF AREA A - EDGE FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



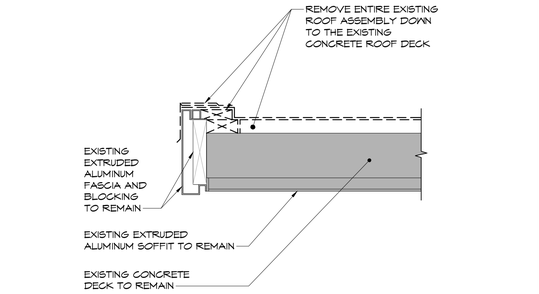
2 ROOF AREA A - EDGE FLASHING
SCALE: 1 1/2" = 1'-0"



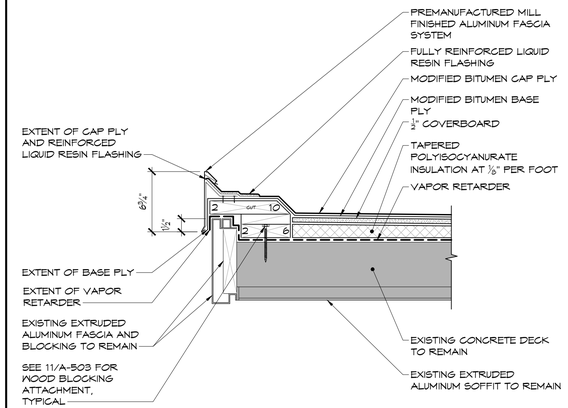
3 ROOF AREA A TO C - EXPANSION JOINT REMOVAL
SCALE: 1 1/2" = 1'-0"



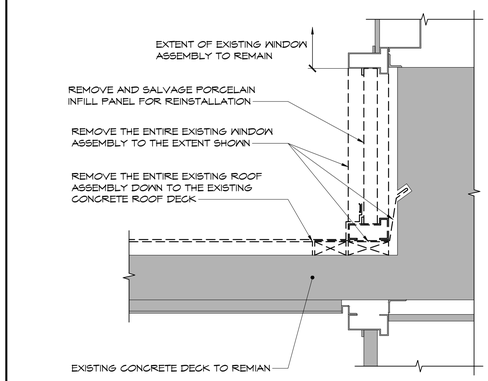
4 ROOF AREA A TO C - EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



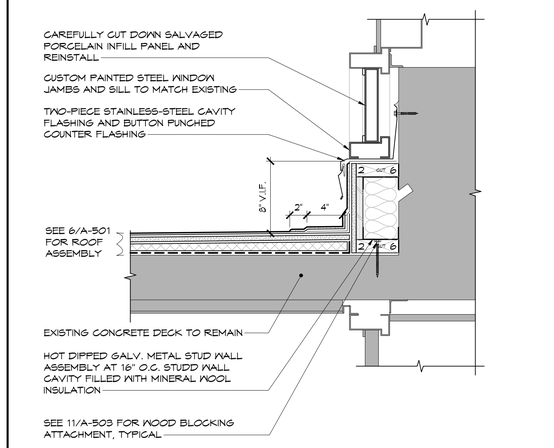
5 ROOF AREA B - EDGE FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



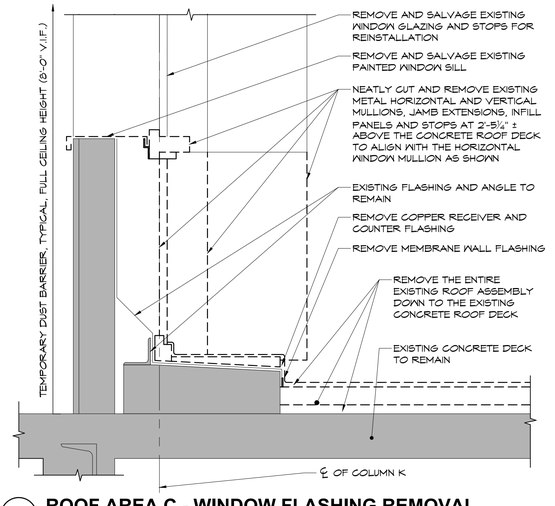
6 ROOF AREA B - EDGE FLASHING
SCALE: 1 1/2" = 1'-0"



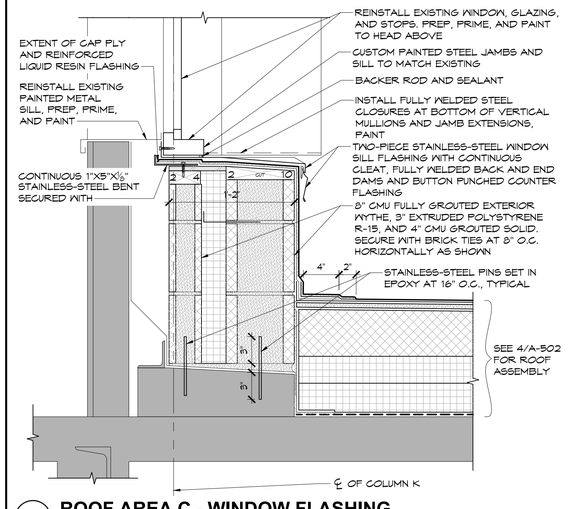
7 ROOF AREA B - ROOF TO WALL FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



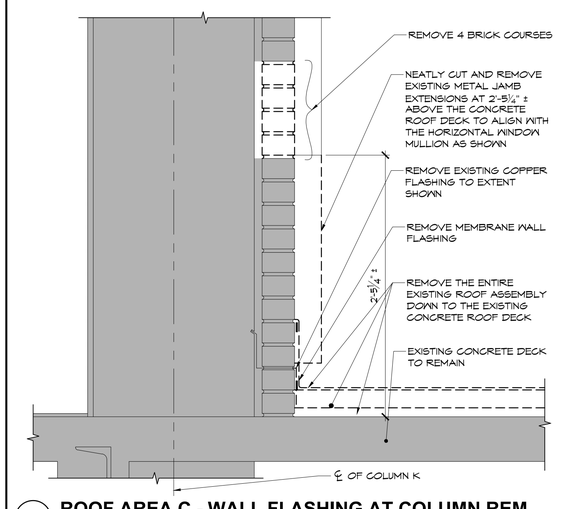
8 ROOF AREA B - ROOF TO WALL FLASHING
SCALE: 1 1/2" = 1'-0"



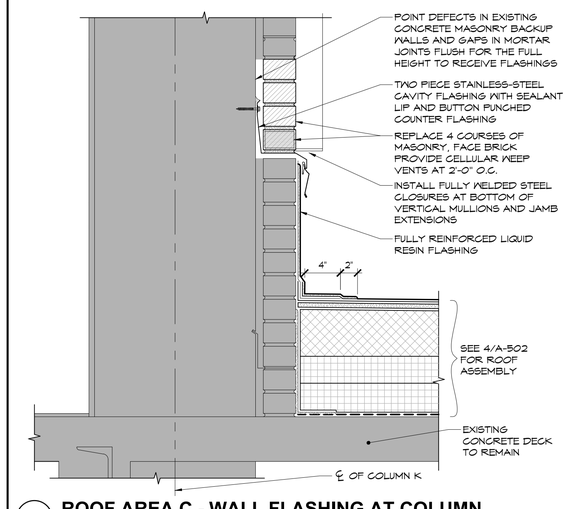
9 ROOF AREA C - WINDOW FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



10 ROOF AREA C - WINDOW FLASHING
SCALE: 1 1/2" = 1'-0"



11 ROOF AREA C - WALL FLASHING AT COLUMN REM.
SCALE: 1 1/2" = 1'-0"



12 ROOF AREA C - WALL FLASHING AT COLUMN
SCALE: 1 1/2" = 1'-0"

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PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
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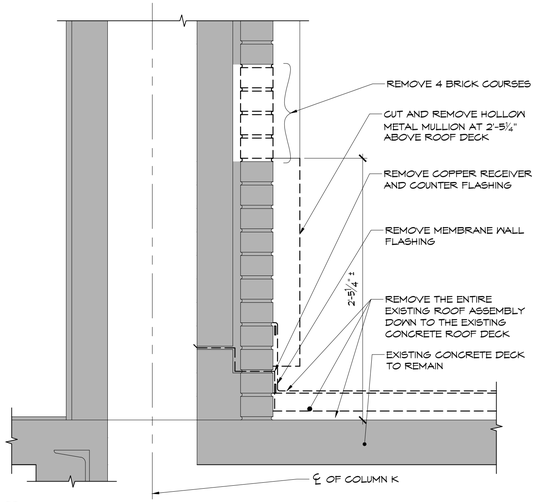
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		BID DOCUMENTS

DRAWN	CHECKED
TJG	JDT/DKA
DATE	**SCALE**
11/02/2026	AS NOTED

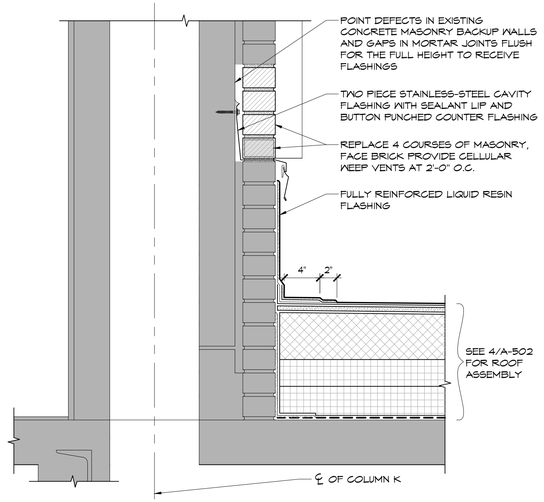
SHEET TITLE
ADMINISTRATION BUILDING - DETAILS

SHEET NUMBER
A-501
SHEET 23 OF 58

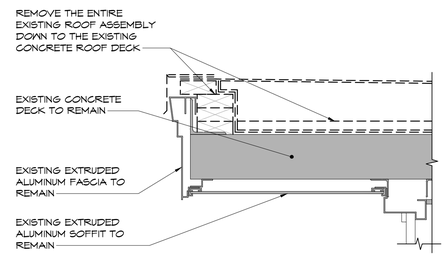
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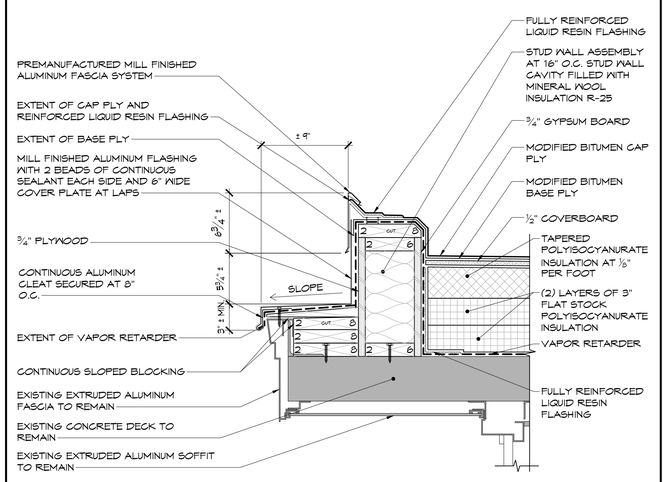
1 ROOF AREA C - WALL FLASHING AT PIPE CHASE REM.
SCALE: 1 1/2" = 1'-0"



2 ROOF AREA C - WALL FLASHING AT PIPE CHASE
SCALE: 1 1/2" = 1'-0"



3 ROOF AREA C - EDGE FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



4 ROOF AREA C - EDGE FLASHING
SCALE: 1 1/2" = 1'-0"

5 ROOF AREA D - COLUMN PARAPET FLASHING REM.
SCALE: 1 1/2" = 1'-0"

6 ROOF AREA D - COLUMN PARAPET FLASHING
SCALE: 1 1/2" = 1'-0"

7 ROOF AREA D - PARAPET FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"

8 ROOF AREA D - PARAPET FLASHING
SCALE: 1 1/2" = 1'-0"

9 ROOF AREA D - ROOF TO WALL FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"

10 ROOF AREA D - ROOF TO WALL FLASHING
SCALE: 1 1/2" = 1'-0"

11 ROOF AREA D - DOOR FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"

12 ROOF AREA D - DOOR FLASHING
SCALE: 1 1/2" = 1'-0"

10/28/2026 6:13:12 PM JAMES TREVETT

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CONSULTANT

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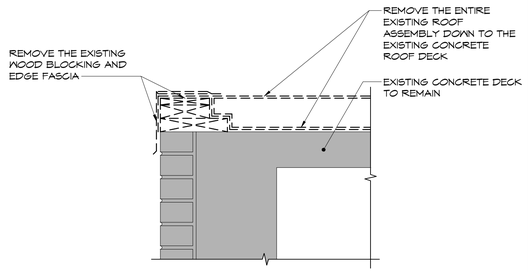
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		BID DOCUMENTS

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TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

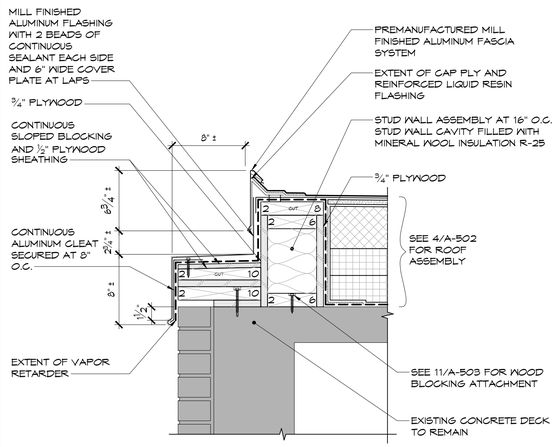
SHEET TITLE
ADMINISTRATION BUILDING - DETAILS

SHEET NUMBER
A-502

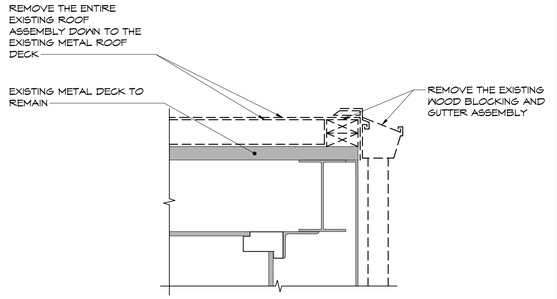
SHEET 24 OF 58



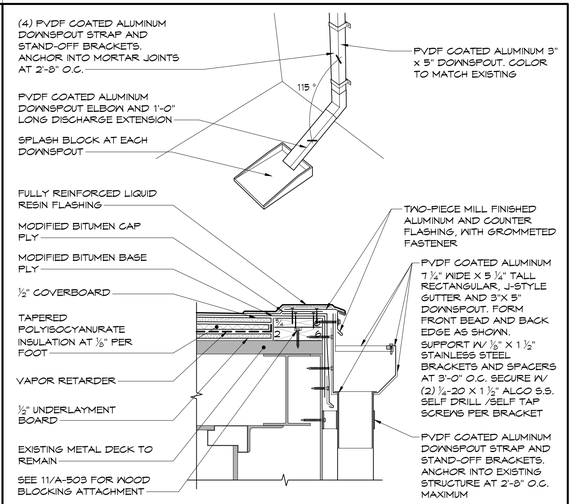
1 ROOF AREA E - EDGE FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



2 ROOF AREA E - EDGE FLASHING
SCALE: 1 1/2" = 1'-0"



3 ROOF AREA F - INTERIOR EDGE FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



4 ROOF AREA F - INTERIOR EDGE FLASHING
SCALE: 1 1/2" = 1'-0"

5 ROOF AREA F - EDGE FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"

6 ROOF AREA F - EDGE FLASHING
SCALE: 1 1/2" = 1'-0"

7 TYPICAL ROOF DRAIN REMOVAL - CONCRETE DECK
SCALE: 1 1/2" = 1'-0"

8 TYPICAL ROOF DRAIN - CONCRETE DECK
SCALE: 1 1/2" = 1'-0"

9 TYPICAL ROOF DRAIN REMOVAL - METAL DECK
SCALE: 1 1/2" = 1'-0"

10 TYPICAL ROOF DRAIN - METAL DECK
SCALE: 1 1/2" = 1'-0"

11 TYPICAL WOOD BLOCK FASTENING DETAIL
SCALE: 1 1/2" = 1'-0"

12 THRU-ROOF CONDUIT HOOD DETAIL (MANUF.)
SCALE: 1 1/2" = 1'-0"

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PROJECT NORTH

CONSULTANT

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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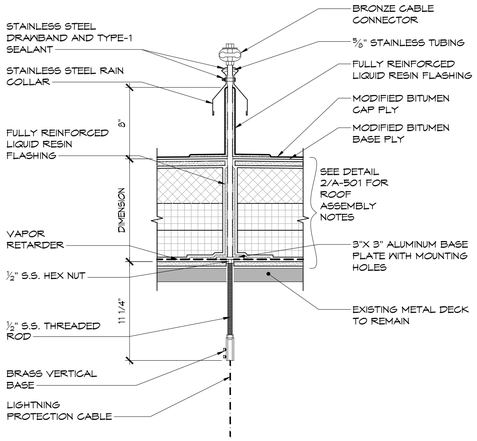
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		BID DOCUMENTS

DRAWN	CHECKED
TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

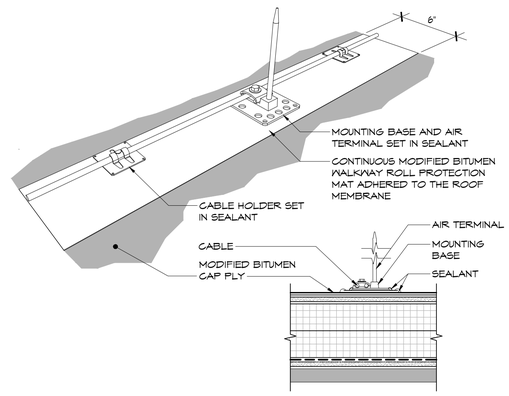
SHEET TITLE
ADMINISTRATION BUILDING - DETAILS

SHEET NUMBER
A-503
SHEET 25 OF 58

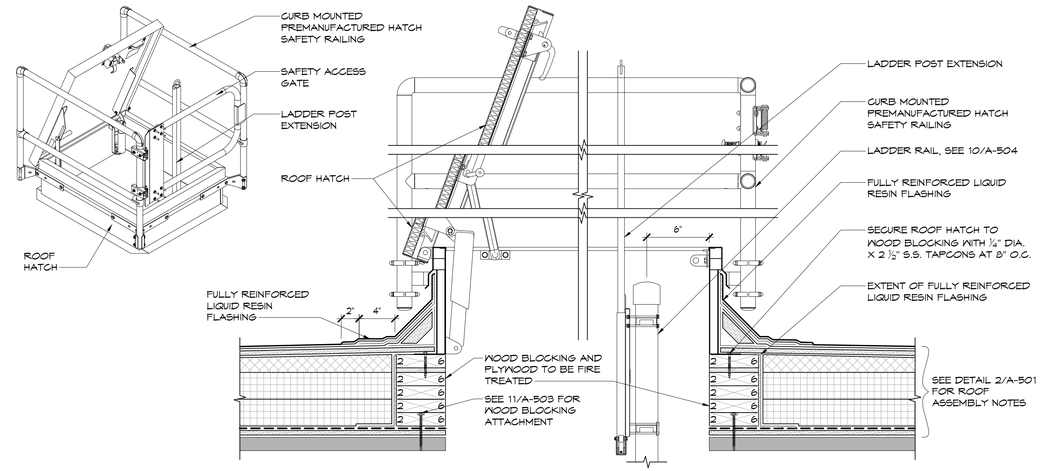
10/28/2026 6:13:22 PM JAMES TREVETT



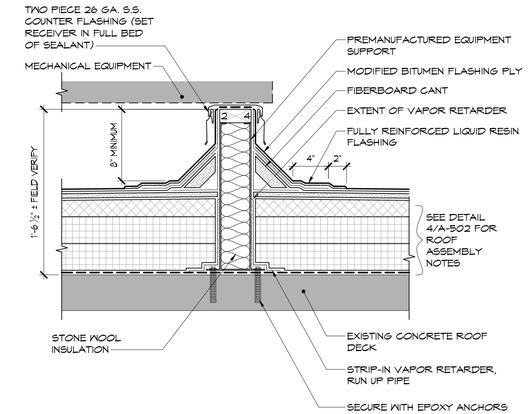
1 THRU-ROOF LIGHTNING PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0"



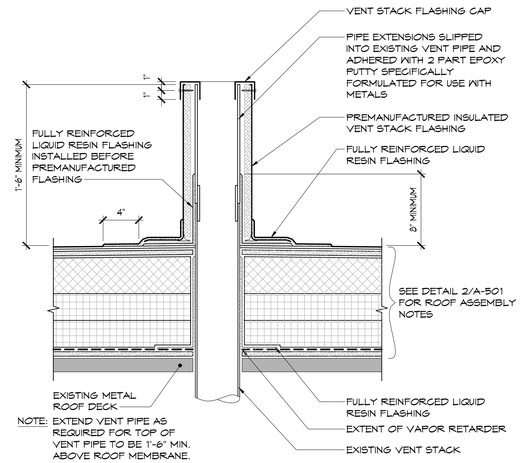
2 TYPICAL LIGHTNING PROTECTION SYSTEM
SCALE: 1 1/2" = 1'-0"



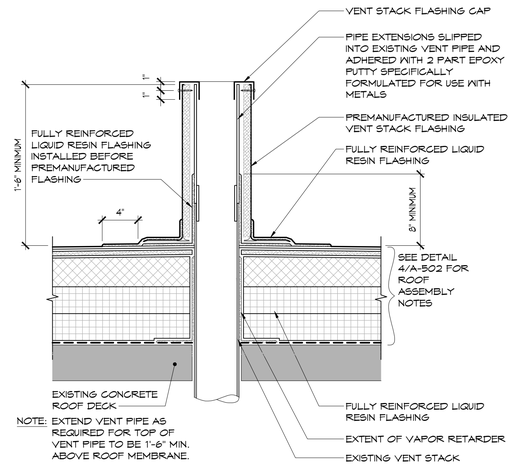
3 TYPICAL ROOF HATCH DETAIL AND ISOMETRIC
SCALE: 1 1/2" = 1'-0"



4 TYPICAL EQUIPMENT SUPPORT DETAIL - CONC. DECK
SCALE: 1 1/2" = 1'-0"

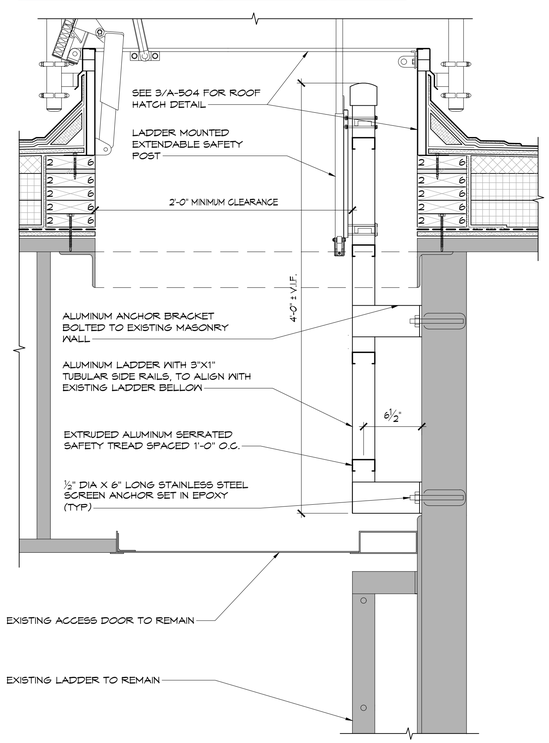


5 TYPICAL PLUMBING VENT (COLD) - METAL DECK
SCALE: 1 1/2" = 1'-0"

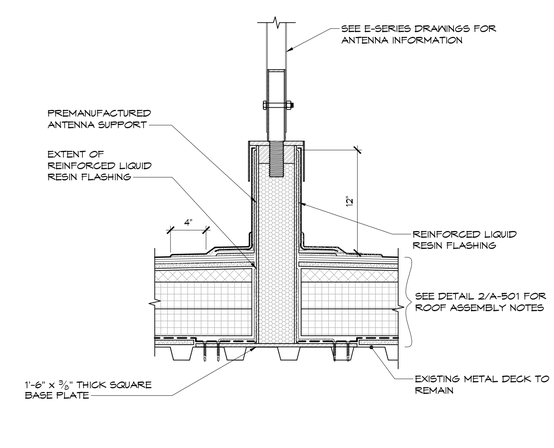


6 TYPICAL PLUMBING VENT (COLD) - CONC. DECK
SCALE: 1 1/2" = 1'-0"

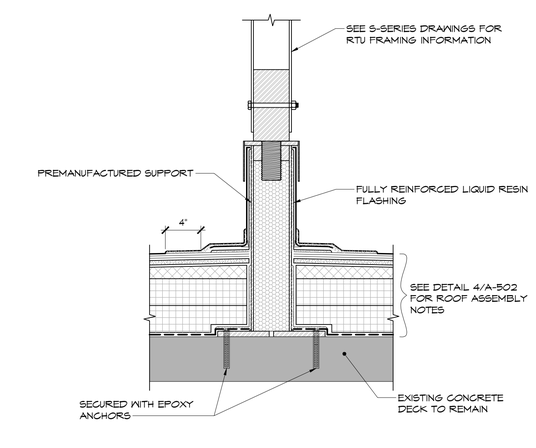

REMOVE EXISTING UPPER INTERIOR LADDER AND ATTACHMENT



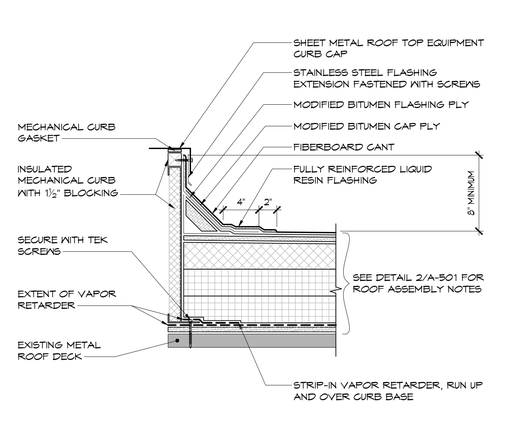
10 ROOF ACCESS LADDER DETAIL
SCALE: 1 1/2" = 1'-0"



7 TYPICAL ANTENNA ROOF SUPPORT - METAL DECK
SCALE: 1 1/2" = 1'-0"



8 TYPICAL ROOF MOUNTED SUPPORT - CONC. DECK
SCALE: 1 1/2" = 1'-0"



9 TYPICAL METAL CURB BASE FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"

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PROJECT NORTH

CONSULTANT

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REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
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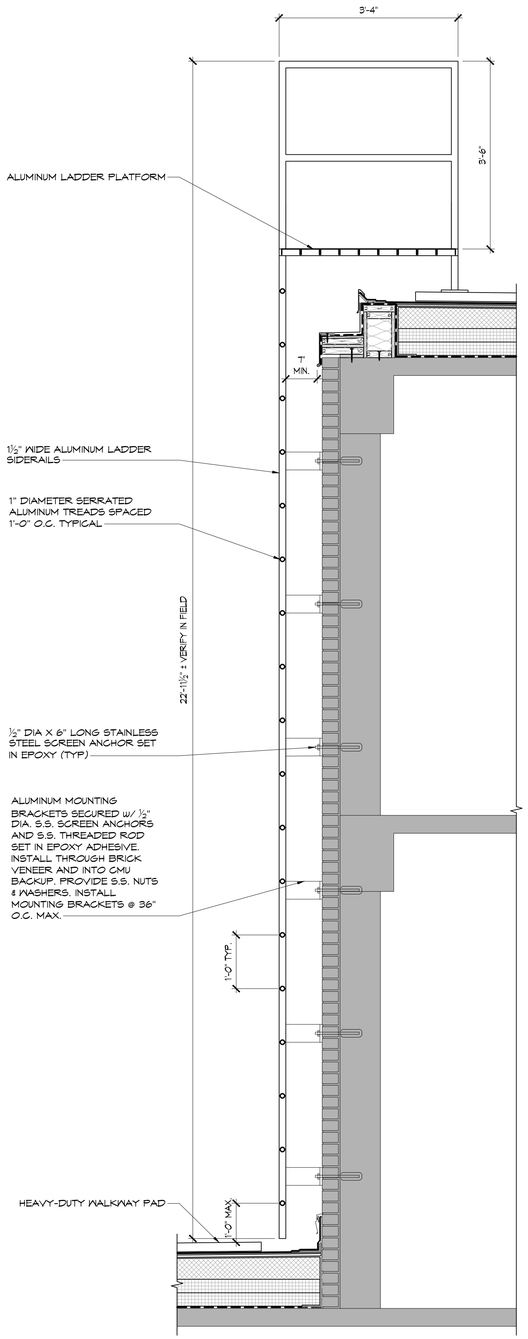
MARK	DATE	DESCRIPTION
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TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

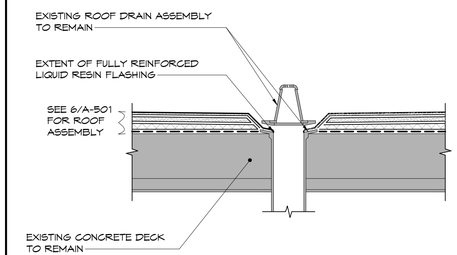
SHEET TITLE
ADMINISTRATION BUILDING - DETAILS

SHEET NUMBER
A-504
SHEET 26 OF 58

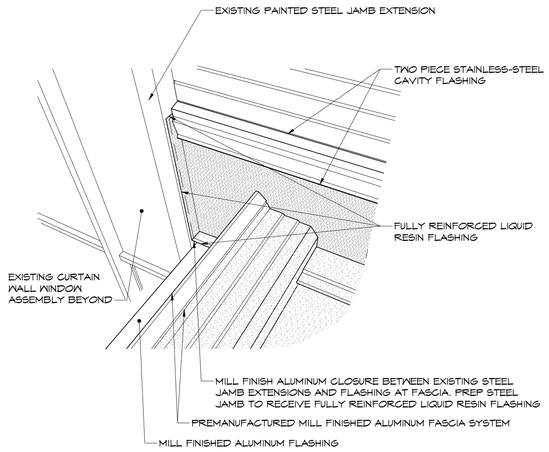
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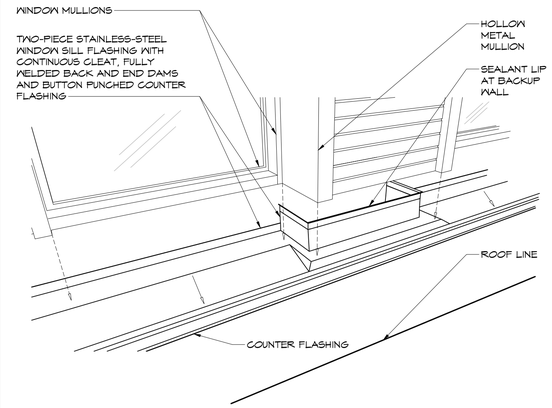
1 ROOF AREA D TO E - LADDER DETAIL
SCALE: 3/4" = 1'-0"



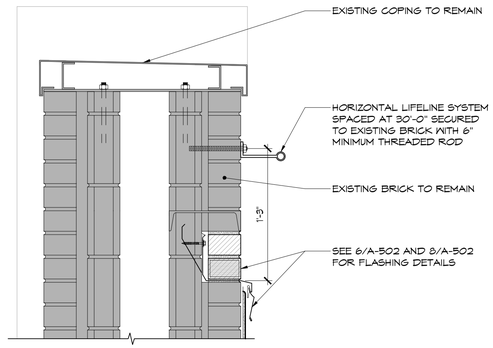
2 ROOF AREA B - ROOF DRAIN
SCALE: 1 1/2" = 1'-0"



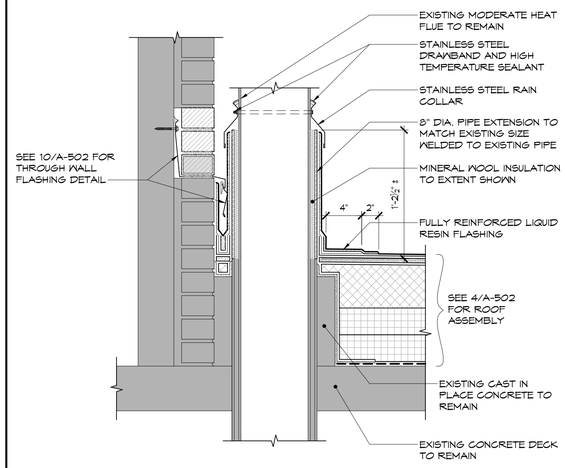
3 WALL FLASHING TERMINATION AT JAMB EXTENSION
SCALE: 1 1/2" = 1'-0"



4 WINDOW FLASHING AXONOMETRIC
SCALE: NOT TO SCALE



5 TYPICAL HORIZONTAL LIFELINE ATTACHMENT
SCALE: 1 1/2" = 1'-0"



6 ROOF AREA D - HOT VENT FLASHING
SCALE: 1 1/2" = 1'-0"

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PROJECT NORTH

CONSULTANT

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

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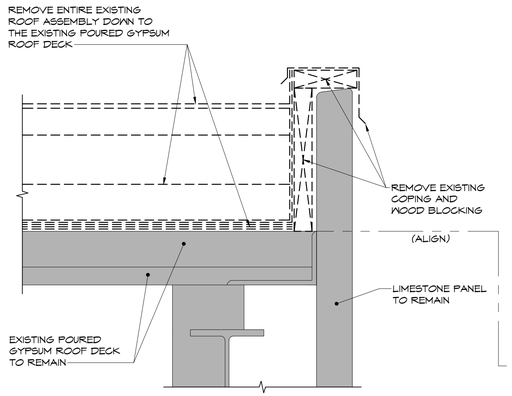
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TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

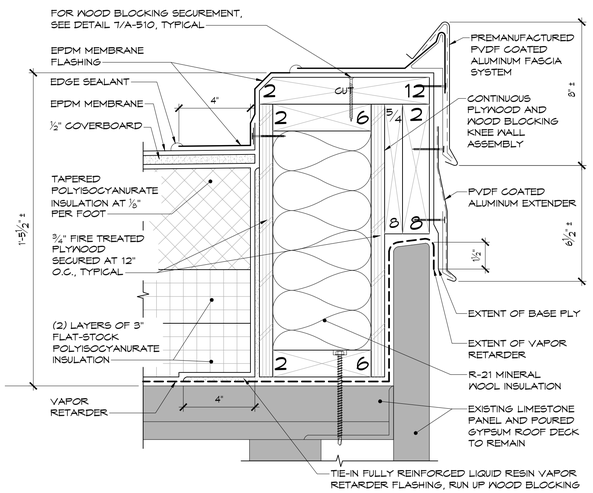
SHEET TITLE
ADMINISTRATION BUILDING - DETAILS

SHEET NUMBER
A-505
SHEET 27 OF 58

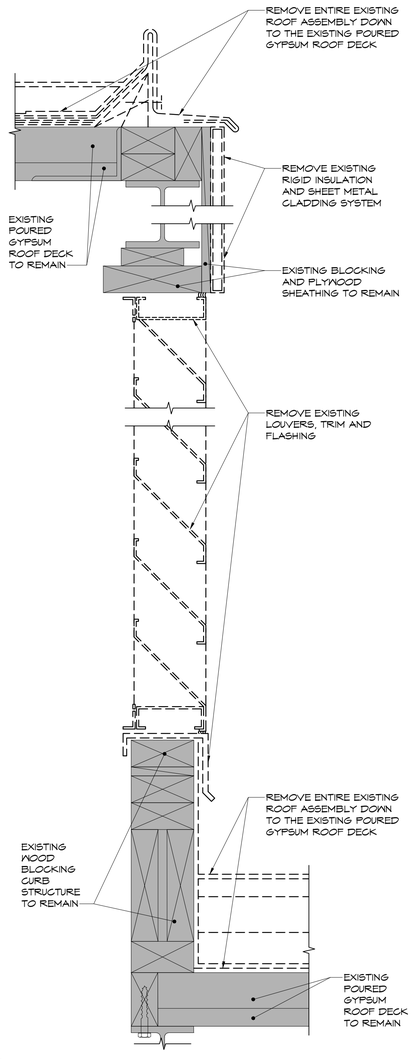
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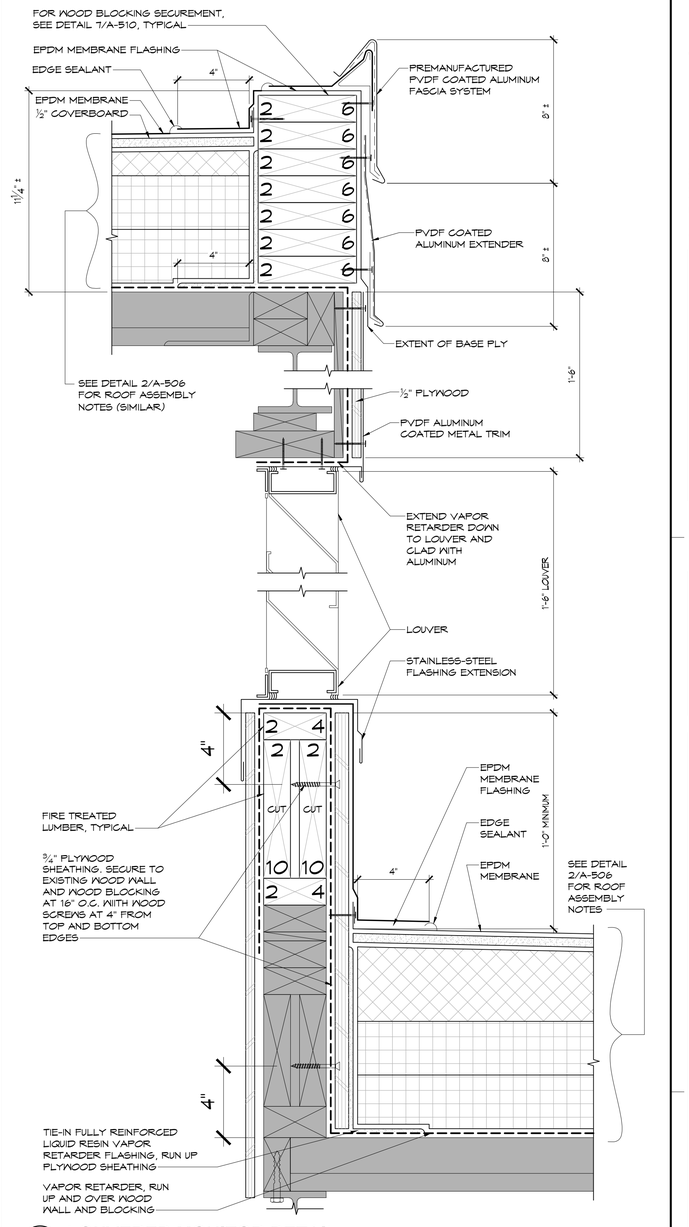
1 TYPICAL ROOF EDGE REMOVAL DETAIL
SCALE: 3" = 1'-0"



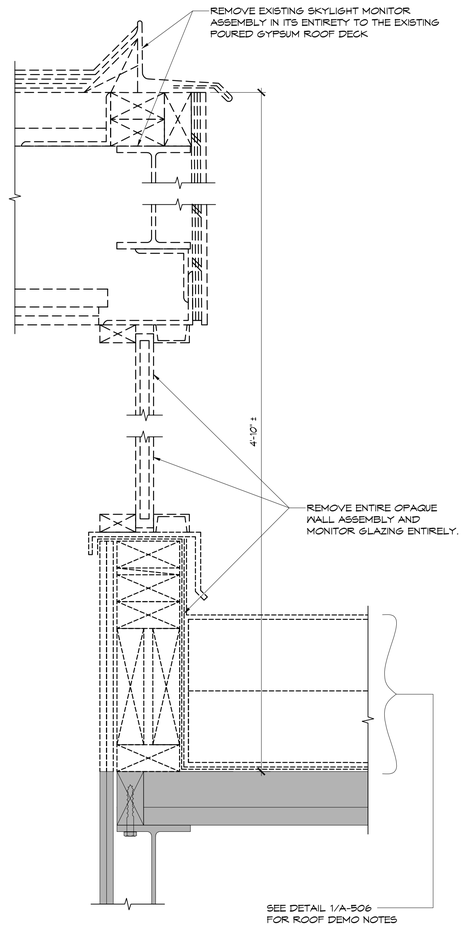
2 TYPICAL ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



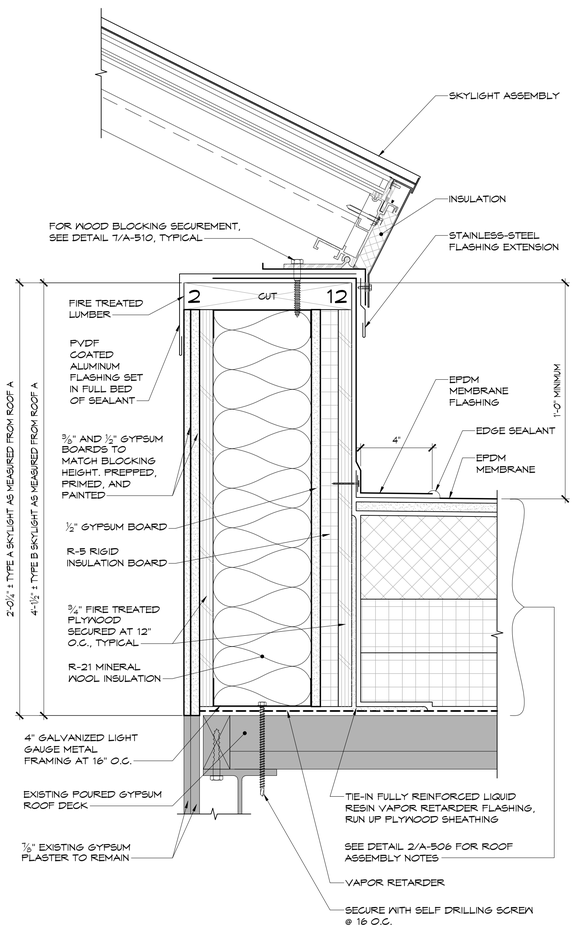
5 LOUVERED MONITOR REMOVAL DETAIL
SCALE: 3" = 1'-0"



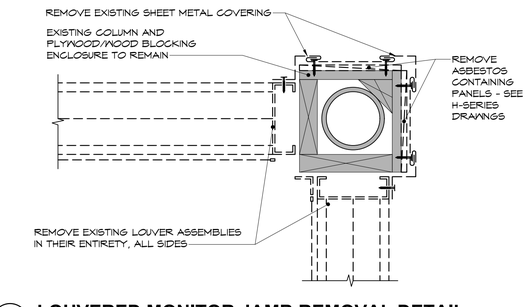
6 LOUVERED MONITOR DETAIL
SCALE: 3" = 1'-0"



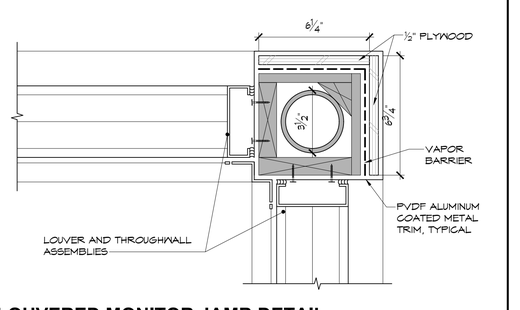
3 TYPICAL SKYLIGHT MONITOR REMOVALS
SCALE: 3" = 1'-0"



4 TYPICAL SKYLIGHT CURB DETAIL
SCALE: 3" = 1'-0"



7 LOUVERED MONITOR JAMB REMOVAL DETAIL
SCALE: 3" = 1'-0"



8 LOUVERED MONITOR JAMB DETAIL
SCALE: 3" = 1'-0"

10/28/2026 1:43:24 PM/ZACH HOOKER

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REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
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SUCF PROJECT NO. 071108-00

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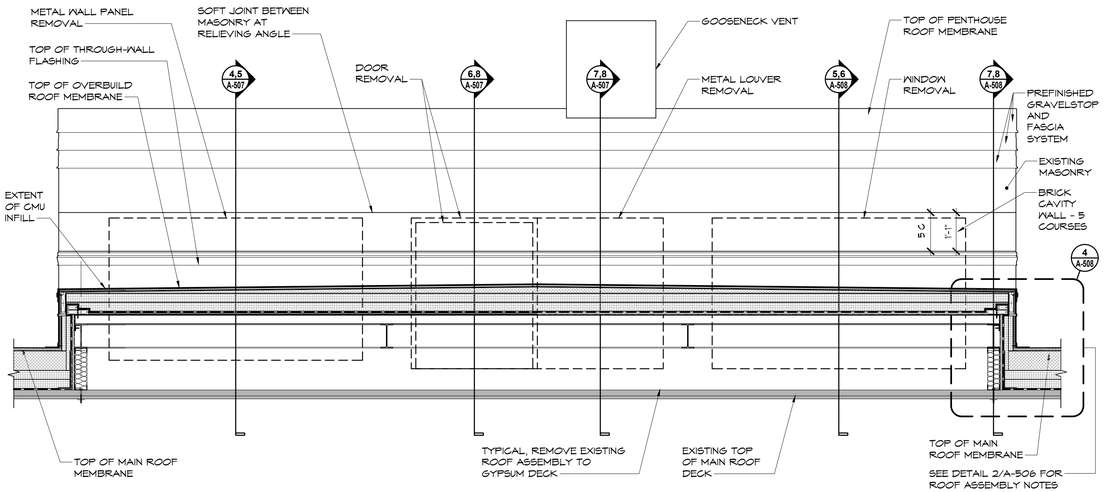
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MARK	DATE	DESCRIPTION
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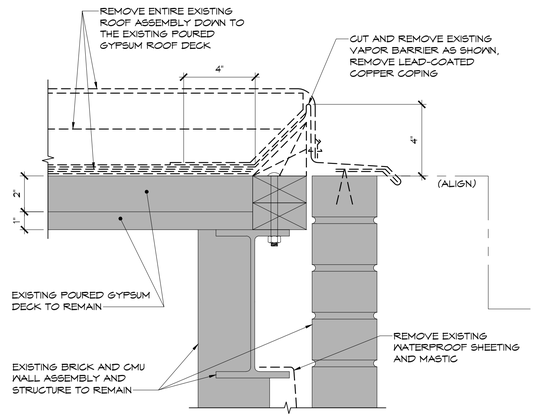
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EVM	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES BUILDING - MAIN ROOF DETAILS

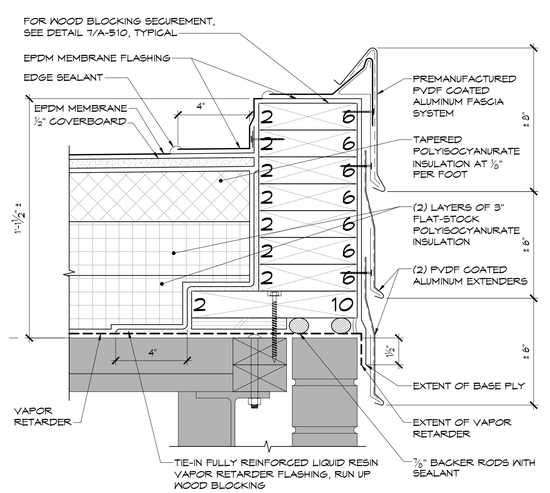
SHEET NUMBER
A-506
SHEET 28 OF 58



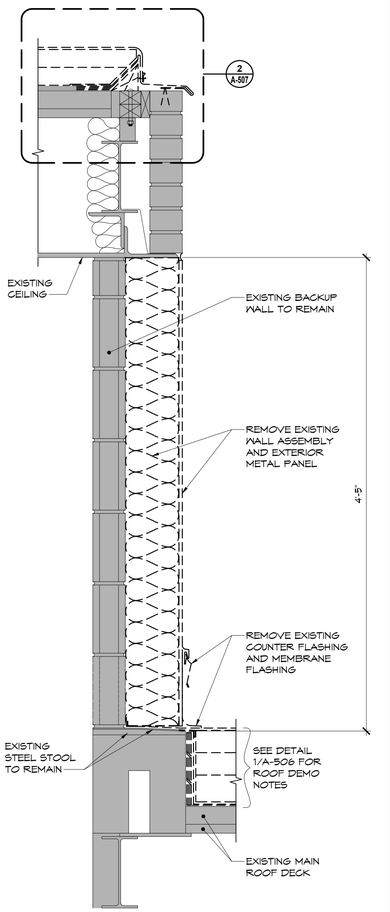
1 PENTHOUSE OVERBUILD SECTION AND ELEVATION
SCALE: 1/2" = 1'-0"



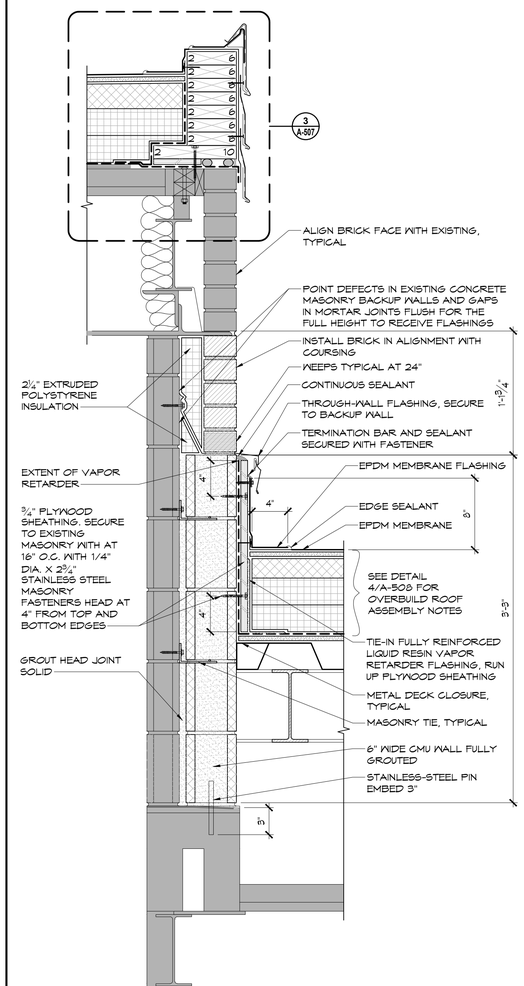
2 TYPICAL PENTHOUSE ROOF EDGE REMOVAL DETAIL
SCALE: 3" = 1'-0"



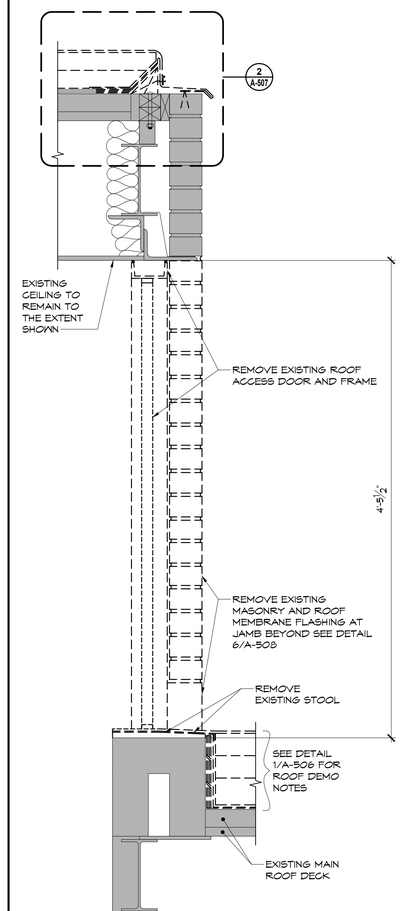
3 TYPICAL PENTHOUSE ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



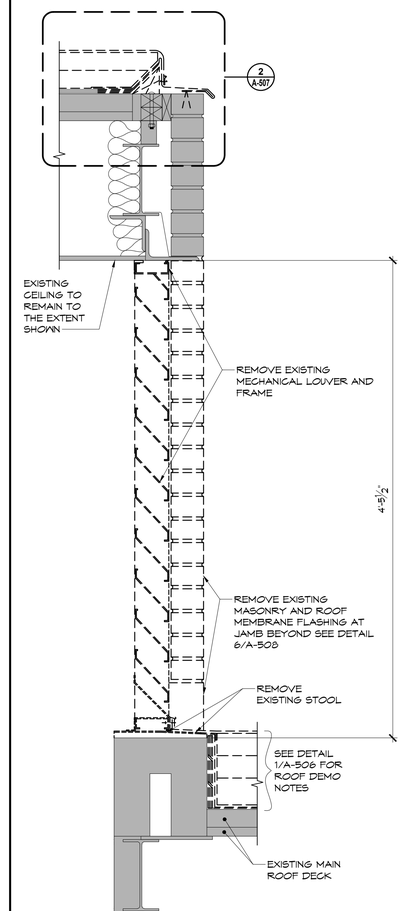
4 PENTHOUSE PANEL REMOVAL
SCALE: 1 1/2" = 1'-0"



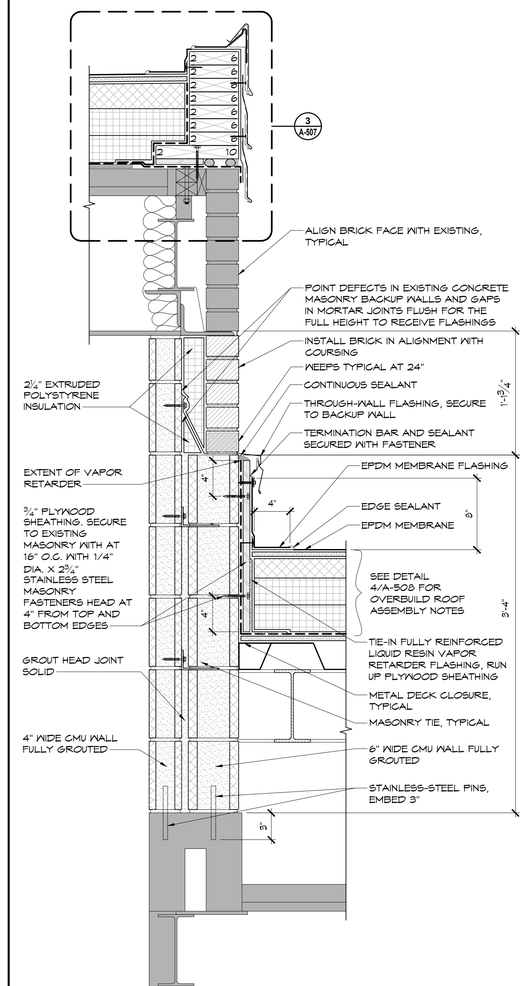
5 PENTHOUSE PANEL INFILL
SCALE: 1 1/2" = 1'-0"



6 PENTHOUSE DOOR REMOVAL
SCALE: 1 1/2" = 1'-0"



7 PENTHOUSE LOUVER REMOVAL
SCALE: 1 1/2" = 1'-0"



8 PENTHOUSE DOOR & LOUVER INFILL
SCALE: 1 1/2" = 1'-0"

10/28/2026 1:43:45 PM ZACH HOOKER

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www.bellandspina.com

REGISTERED ARCHITECT DOUGLAS K. ARENA 032669 STATE OF NEW YORK

REGISTRATION EXPIRES: 08/31/2028

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PROJECT NORTH

CONSULTANT

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

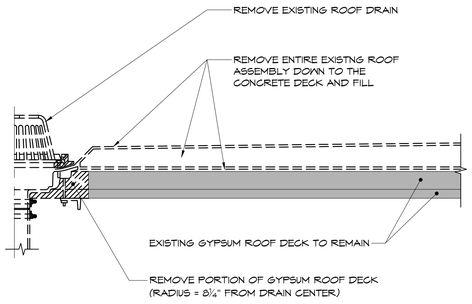
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MARK	DATE	DESCRIPTION
		PRE-BID SUBMISSION

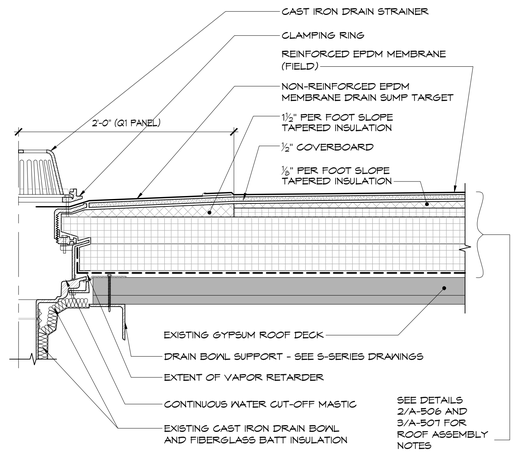
DRAWN	CHECKED
TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES BUILDING - PENTHOUSE DETAILS

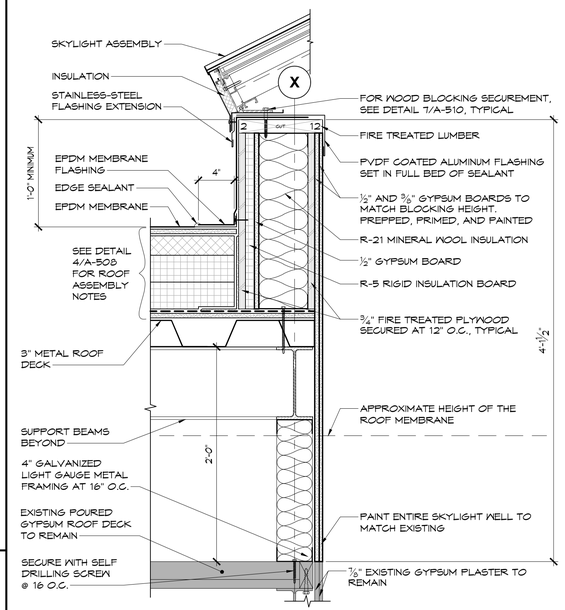
SHEET NUMBER
A-507
SHEET 29 OF 58



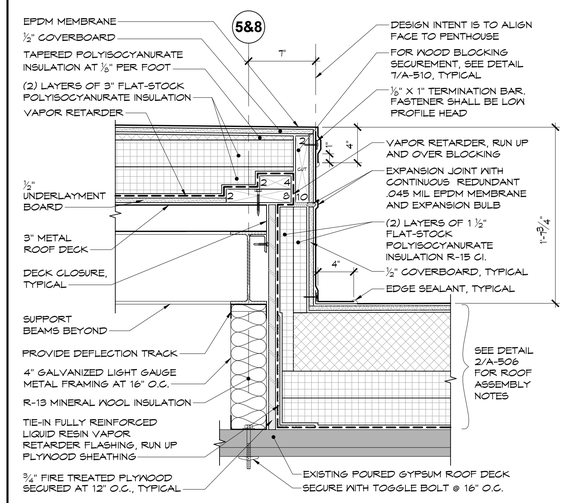
1 ROOF DRAIN REMOVAL
SCALE: 1 1/2" = 1'-0"



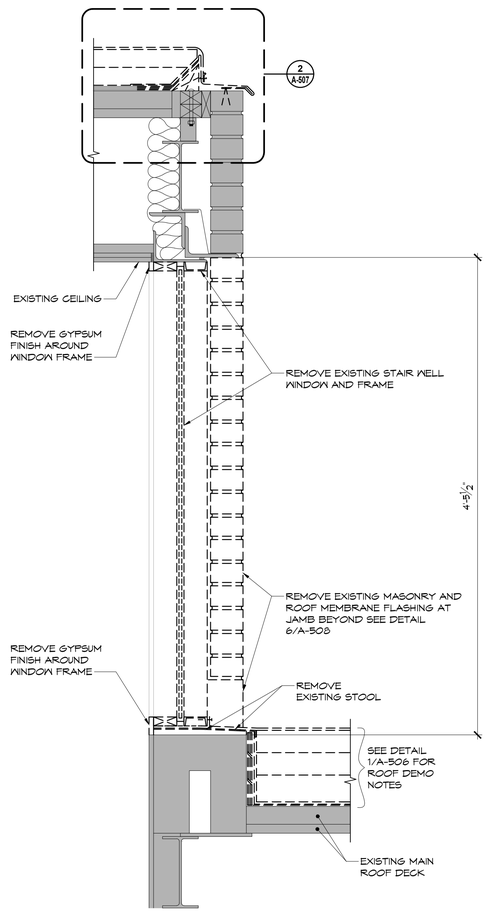
2 ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



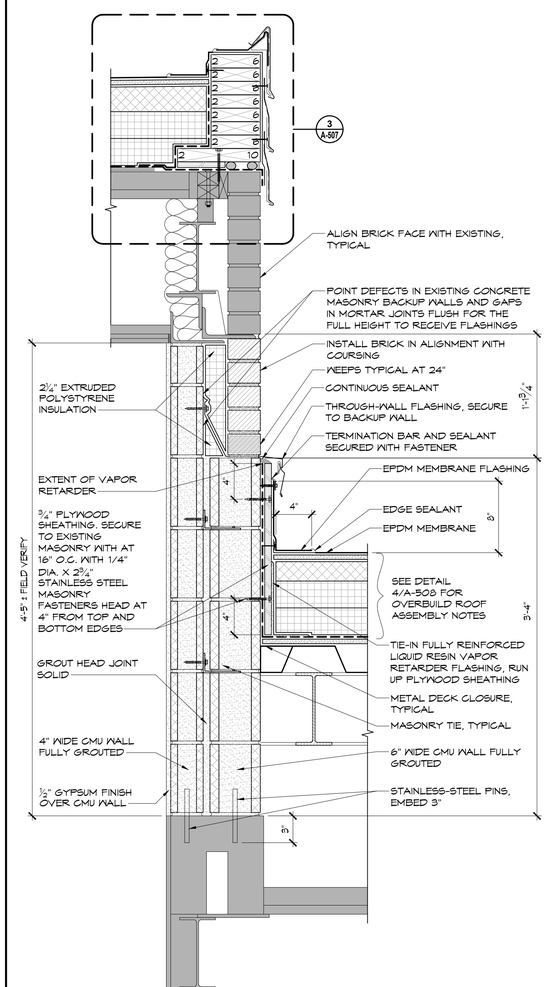
3 PENTHOUSE OVERBUILD ROOF EDGE TO SKYLIGHT B DETAIL
SCALE: 1 1/2" = 1'-0"



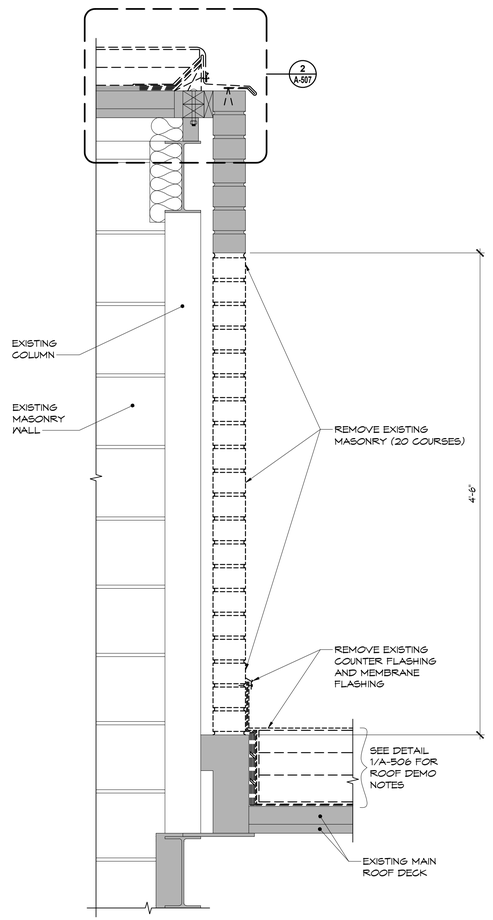
4 PENTHOUSE OVERBUILD ROOF EDGE
SCALE: 1 1/2" = 1'-0"



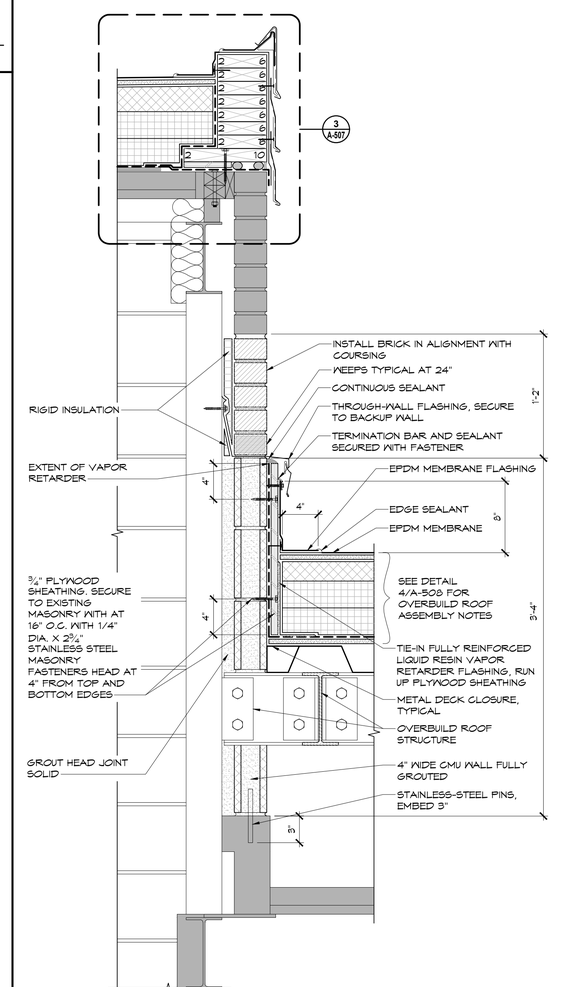
5 PENTHOUSE STAIR WINDOW REMOVAL
SCALE: 1 1/2" = 1'-0"



6 PENTHOUSE STAIR WINDOW INFILL
SCALE: 1 1/2" = 1'-0"



7 PENTHOUSE COLUMN BRICK REMOVAL
SCALE: 1 1/2" = 1'-0"



8 PENTHOUSE COLUMN BRICK INFILL
SCALE: 1 1/2" = 1'-0"

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215 Wyoming Street Suite 201 Syracuse, NY 13204
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11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES BUILDING - PENTHOUSE DETAILS

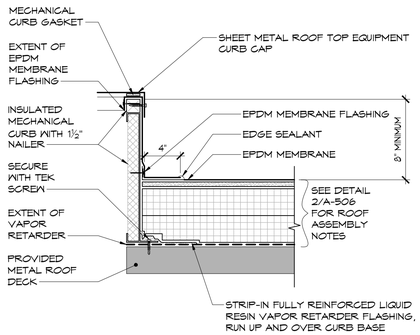
SHEET NUMBER
A-508
SHEET 30 OF 58

10/28/2026 1:44:09 PM ZACH HOOKER

ROOF AREA A



1 POWERED ROOF EXHAUST REMOVAL DETAIL
SCALE: 1 1/2" = 1'-0"

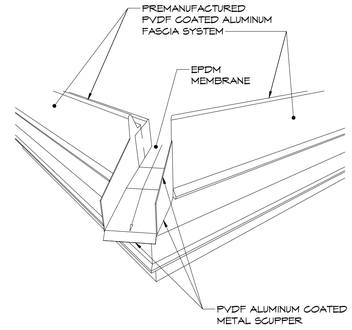


2 P.R.E. METAL CURB BASE FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"

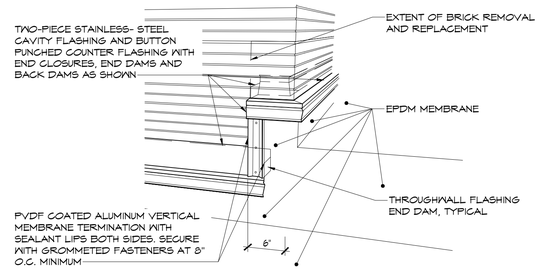
ROOF AREA A



3 SCUPPER REMOVAL DETAIL
SCALE: 1 1/2" = 1'-0"

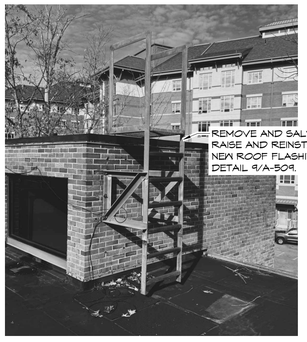


4 LOUVERED MONITOR DRAINAGE DETAIL
SCALE: 1 1/2" = 1'-0"



5 PENTHOUSE CORNER DETAIL
SCALE: 1 1/2" = 1'-0"

ROOF AREA A TO ROOF AREA B

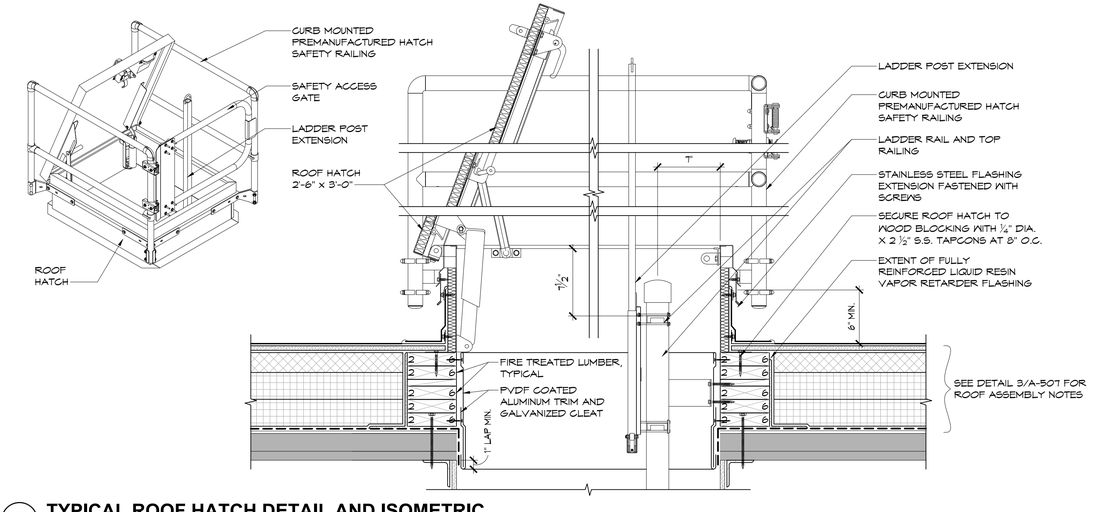


6 EXTERIOR PENTHOUSE LADDER REMOVAL DETAIL
SCALE: 1 1/2" = 1'-0"

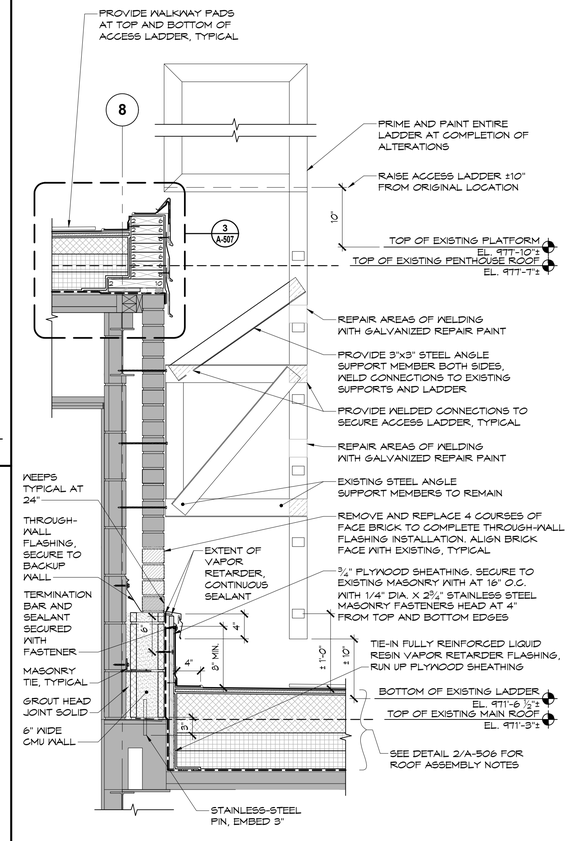
MECHANICAL EQUIPMENT ROOM 205



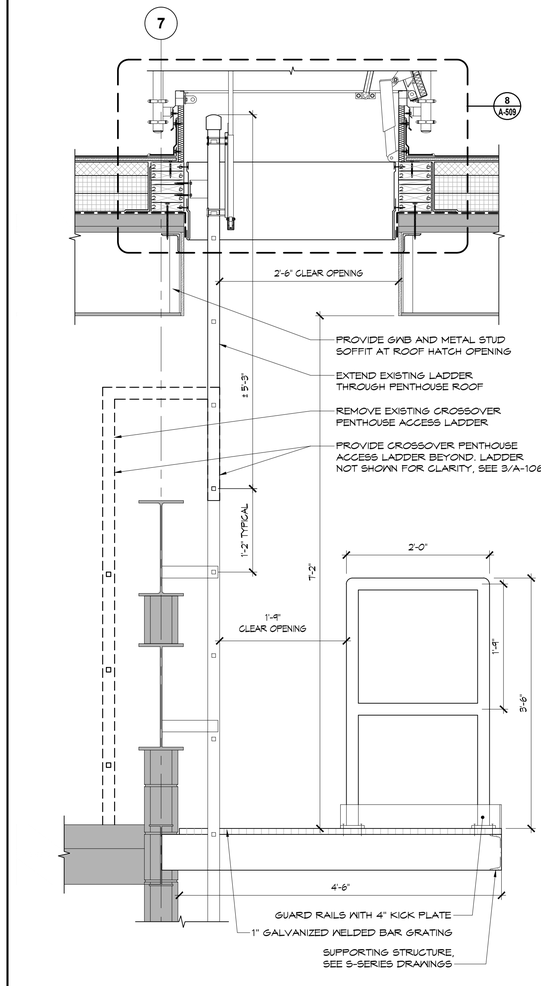
7 INTERIOR PENTHOUSE LADDER REMOVAL DETAIL
SCALE: 1 1/2" = 1'-0"



8 TYPICAL ROOF HATCH DETAIL AND ISOMETRIC
SCALE: 1 1/2" = 1'-0"



9 EXTERIOR PENTHOUSE ACCESS LADDER DETAIL
SCALE: 1" = 1'-0"



10 INTERIOR PENTHOUSE ACCESS LADDER DETAIL
SCALE: 1" = 1'-0"

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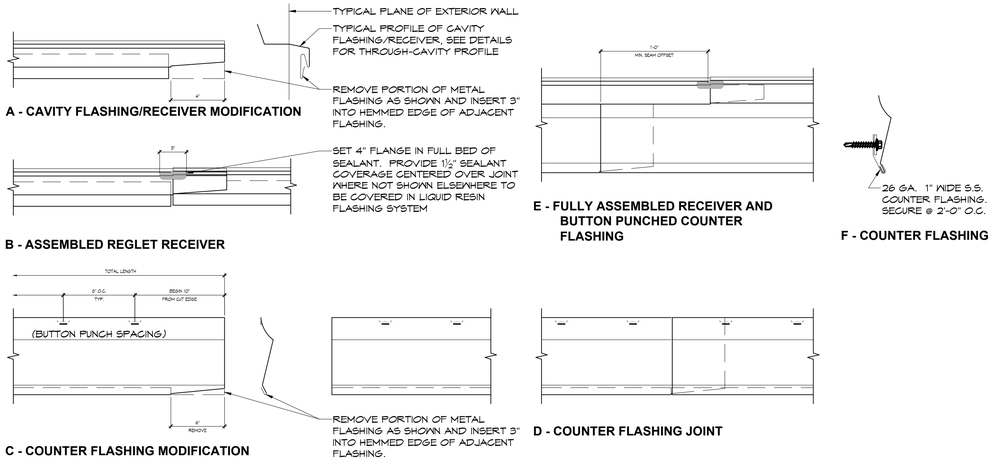
MARK	DATE	DESCRIPTION
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DRAWN	CHECKED
TJG	JDT/DKA
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
HEALTH SERVICES BUILDING - DETAILS

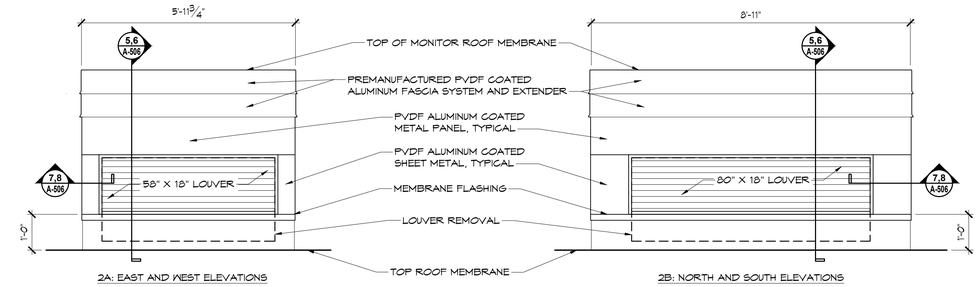
SHEET NUMBER
A-509
SHEET 31 OF 58

10/28/2026 1:44:33 PM/ZACH HOOKER



1 TYPICAL RECEIVER AND COUNTER FLASHING DETAIL (FOR BOTH ADMINISTRATION AND HEALTH SERVICES BUILDINGS)

SCALE: 1 1/2" = 1'-0"

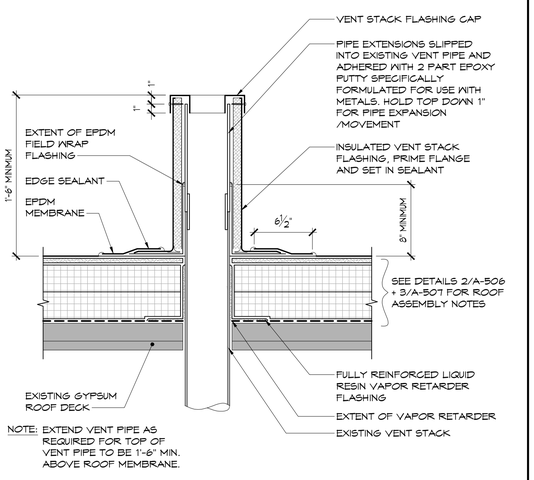


2A: EAST AND WEST ELEVATIONS

2B: NORTH AND SOUTH ELEVATIONS

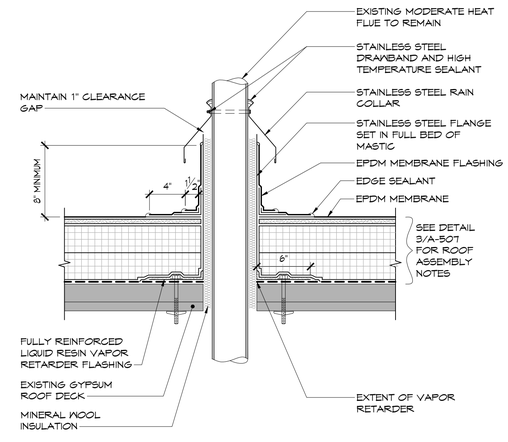
2 LOUVERED MONITOR ELEVATIONS

SCALE: 1/2" = 1'-0"



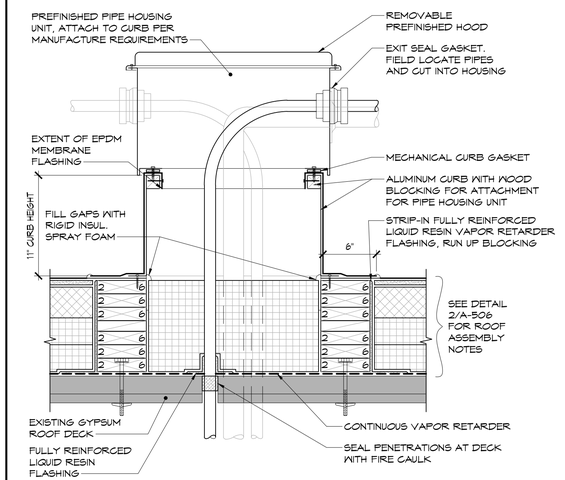
3 TYPICAL PLUMBING VENT DETAIL (COLD)

SCALE: 1 1/2" = 1'-0"



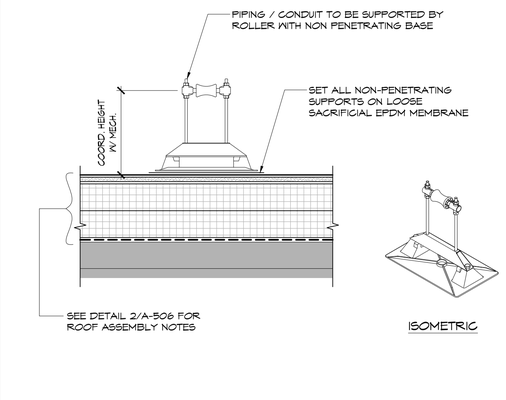
4 TYPICAL PLUMBING VENT DETAIL (HOT)

SCALE: 1 1/2" = 1'-0"



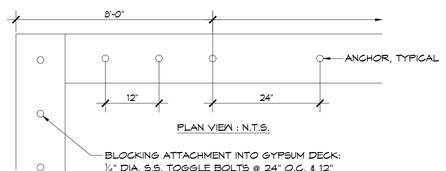
5 THRU-ROOF CONDUIT HOOD DETAIL

SCALE: 1 1/2" = 1'-0"



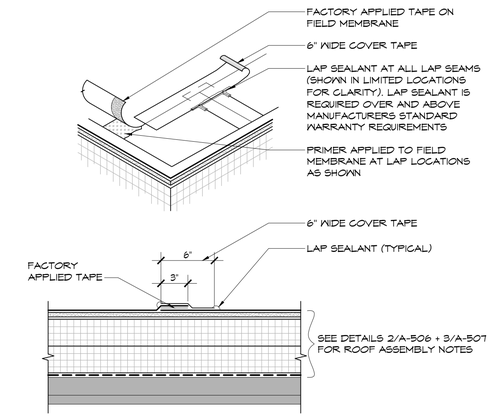
6 PIPING AND CONDUIT SUPPORT DETAIL

SCALE: 1 1/2" = 1'-0"



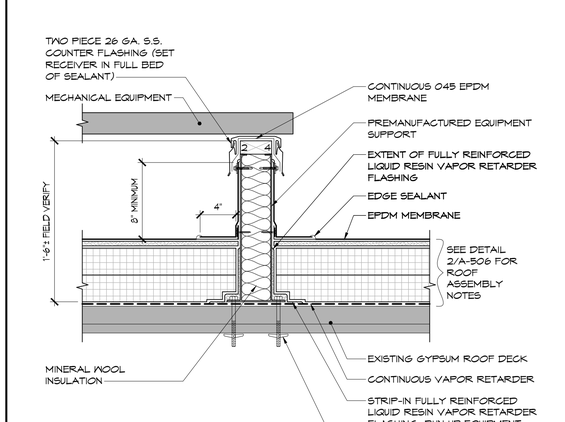
7 TYPICAL WOOD BLOCKING FASTENING DETAIL

SCALE: 1 1/2" = 1'-0"



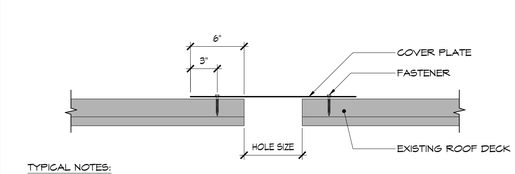
8 TYPICAL EPDM MEMBRANE SEAM LAP DETAIL

SCALE: 1 1/2" = 1'-0"



9 TYPICAL EQUIPMENT SUPPORT DETAIL

SCALE: 1 1/2" = 1'-0"



TYPICAL NOTES:

1. COVER HOLES IN DECK SMALLER THAN 12" X 12" WITH 18 GA. GALVANIZED STEEL PLATE.
2. COVER HOLES IN DECK BETWEEN 12" X 12" AND 24" X 24" WITH ½" GALVANIZED STEEL PLATE.
3. COVER HOLES IN DECK BETWEEN 24" X 24" AND 42" X 42" WITH ¼" GALVANIZED STEEL PLATE.
4. EXTEND PATCH MATERIAL A MINIMUM OF 6" PAST THE OPENING. FASTENERS 3" FROM EDGE OF PLATE AND SPACED EVENLY AROUND PERIMETER OF PATCH.
5. WHEN PATCHING HOLES LARGER THAN 42" X 42", CONSULT WITH ARCHITECT FOR PATCH METHOD.

FASTENER SCHEDULE									
DECK TYPE	18 GA. GALV PLATE			⅛" GALV. STEEL PLATE			¼" GALV. STEEL PLATE		
	QTTY	SIZE	TYPE	QTTY	SIZE	TYPE	QTTY	SIZE	TYPE
METAL	4	#10	TEK	8	#12	TEK	16	#14	TEK
GYPSUM	4	¼" DIA.	TOGGLE	8	5/16" DIA.	TOGGLE	16	⅜" DIA.	TOGGLE

10 TYPICAL DECK COVER PLATE DETAIL

SCALE: 1 1/2" = 1'-0"

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DATE 11/02/2026 | SCALE AS NOTED

SHEET TITLE

HEALTH SERVICES BUILDING - DETAILS

SHEET NUMBER **A-510**

SHEET 32 OF 58

10/29/2026 1:44:56 PM ZACH HOOKER

MECHANICAL SYMBOL LIST

- 12/8 — DUCT (FIRST FIGURE, SIDE SHOWN, DIMENSIONS IN INCHES)
- DUCT SECTION - SUPPLY
- DUCT SECTION - RETURN
- DUCT SECTION -EXHAUST
- 14Ø — 14" ROUND DUCT
- 24/12 — 24" x 12" FLAT OVAL DUCT
- VOLUME DAMPER - MANUAL OPERATION
- TURNING VANES
- VERTICAL BLADE POSITION / HORIZONTAL BLADE POSITION
- AD — FIRE DAMPER
- ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
- SD / AD — SMOKE DAMPER
- ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
- F/S / AD — COMBINATION FIRE / SMOKE DAMPER
- ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
- T — THERMOSTAT
- T — PNEUMATIC THERMOSTAT
- S — SENSOR
- 1 / 123 — REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; BOTTOM NUMBER REPRESENTS CFM.
- A / 123 — DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE; NUMBER REPRESENTS CFM.
- 12 — ROOM NUMBER
- CD — CONDENSATE DRAIN
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- RS — REFRIGERANT SUCTION
- RL — REFRIGERANT LIQUID
- PIPING TO BE PROVIDED
- ST — STORM DRAINAGE (ST)
- ST (UIS) — STORM DRAINAGE UNDER SLAB (ST)
- W — WASTE (W)
- EXISTING EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED
- NEW CONNECTION TO EXISTING
- REMOVE TO THIS POINT
- X / XX — BUILDING SECTION
- X / XX — DETAIL NUMBER
- X — KEYNOTE
- X — REMOVAL KEYNOTE
- PIPE TURNED UP
- PIPE TURNED DOWN
- BRANCH OFF BOTTOM OF PIPE
- BRANCH OFF TOP OF PIPE
- PIPE BREAK
- UPRIGHT SPRINKLER HEAD
- PENDANT SPRINKLER HEAD
- C — CONCEALED PENDANT SPRINKLER HEAD

ENERGY CODE NOTE

TO THE BEST OF THE ARCHITECT/ENGINEER'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS.

UNIFORM CODE NOTE

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CODE SUMMARY TABLE

2025 MECHANICAL CODE OF NYS

2025 PLUMBING CODE OF NYS

2025 ENERGY CONSERVATION CODE OF NYS

2025 BUILDING CODE OF NEW YORK STATE

NEW YORK STATE EXISTING BUILDING CODE 2025

MECHANICAL ABBREVIATIONS

%	PERCENT
AC	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AVG	AVERAGE
BDD BF	BACKDRAFT DAMPER BOILER FEED PIPING
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CLR	CLEAR
CMPR	COMPRESSOR
COL	COLUMN
COMB	COMBUSTION
CONC	CONCRETE
COND	CONDENS (-ATE, -ATION, -ER, -ING)
CONN	CONNECTION
CONT	CONTINUOUS
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	VALVE FLOW COEFFICIENT
DB	DRY BULB
dB	DECIBEL
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DIA	DIAMETER
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
ELEV	ELEVATION
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ED, -ING, -OR)
EWT	ENTERING WATER TEMPERATURE
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPERES
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FOOT
FUT	FUTURE
FV	FACE VELOCITY
G	GLYCOL
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HZ	HERTZ / FREQUENCY
ID	DIAMETER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
KW	KILOWATT
KWH	KILOWATT-HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS

MECHANICAL ABBREVIATIONS

LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPERES
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPERES
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OC	ON CENTER
OD	DIAMETER, OUTSIDE
ODWH	ON DEMAND WATER HEATER
OPG	OPENING
OPP	OPPOSITE HAND
OS	OPEN SITE
OT	OFF TOP
OZ	OUNCE
PC	PLUMBING CONTRACTOR
PH	PHASE (ELECTRICAL)
PLBG	PLUMBING
PPM	PARTS PER MILLION
PR	PAIR
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
R	THERMAL RESISTANCE
R12, R22	REFRIGERANT (12, 22, ETC)
RA	RETURN AIR
RAD	RADIATION
RCVR	RECEIVER
RECIRC	RECIRCULATION
REF	REFERENCE
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPERES
RM	ROOM
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SCFM	CFM, STANDARD CONDITIONS
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
ST	STEEL
STD	STANDARD
SUCT	SUCTION
T'STAT	THERMOSTAT
TA	THROW AWAY
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TO	TOP OF
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UNO	UNLESS OTHERWISE NOTED
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENTILATION, VENT
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W/	WITH
W/O	WITHOUT
WB	WET BULB
WBT	WET BULB TEMPERATURE
WH	WHITE
WPD	WATER PRESSURE DROP
WT	WEIGHT
WTD	WATER TEMPERATURE DROP

GENERAL NOTES

1). ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO 2025 NYS MECHANICAL CODE, 2025 PLUMBING CODE OF NYS, 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS, 2025 NYS BUILDING CODE, OSHA AND THE AUTHORITY HAVING JURISDICTION.

2). ALL EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF THE 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS. ALL SUBMITTALS FOR EQUIPMENT COVERED BY THE CODE SHALL INCLUDE THE MANUFACTURER'S STATEMENT OF CONFORMANCE TO THE CODE.

3). FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION. FIELD VERIFY EXACT LOCATION, DEPTH, COMPOSITION AND CONDITION OF ALL PIPING, VALVES AND SYSTEMS AS REQUIRED FOR WORK OF THE CONTRACT. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.

4.) PROVIDE CUTTING, CORING AND PATCHING OF ALL WALLS, SLABS AND DECKS AS REQUIRED FOR WORK SHOWN. COORDINATE ALL WORK WITH OWNER.

5). SEAL ALL MECHANICAL PENETRATIONS (PIPING, DUCTWORK, ETC) IN ACCORDANCE WITH THE 2025 NYS BUILDING CODE AND WHERE SHOWN OR SPECIFIED.

6). ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVES DIRECTIONS.

7). INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC, WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE, AND DURABLE SYSTEM.

8). DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR ELEVATION; UNLESS INDICATED OTHERWISE.

9). SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.

10). WELD ALL STEEL ANGLE JOINTS UNLESS OTHERWISE SHOWN.

11). PROVIDE NECESSARY BY-PASSES AND BALANCING MEANS AS REQUIRED TO ASSURE PROPER SYSTEM OPERATION.

12). ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.

13). PROVIDE ACCESS DOORS AND CLEARANCES FOR EASY ACCESS TO ALL FIRE DAMPERS, CONTROL DAMPERS, LOUVERS, FILTERS, COILS, AND FANS.

14). PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED.

15). VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS IN THE FIELD PRIOR TO BID. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

16). PRIOR TO CUTTING THROUGH FLOORS AND WALLS THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS, PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.

17). REMOVE DUCTWORK BACK TO A POINT WHICH WILL ALLOW THE INSTALLATION OF SUPPORT STEEL THAT IS REQUIRED / RELATED TO THE HVAC EQUIPMENT (IE RTU INSTALLATION).

18). INSTALL ALL NEW DUCT AND PIPE WITHIN EXISTING OPENINGS SUCH THAT IT ALLOWS AS MUCH SPACE AS POSSIBLE TO ONE SIDE WHICH MAY ALLOW PASSAGE.

19). IF ANY EQUIPMENT IS DAMAGED DURING REMOVAL OR INSTALLATION, IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE WITH NEW. ALL EQUIPMENT TO BE REINSTALLED AFTER ROOF REPLACEMENT SHALL BE IN THE SAME CONDITION AS IT WAS WHEN REMOVED.

20). DO NOT SHUT DOWN ANY PLUMBING, NATURAL GAS, OR RELATED SYSTEMS WITHOUT BUILDING OWNER'S PRIOR WRITTEN APPROVAL. FOLLOW ALL OWNER REQUIREMENTS AND SHUT DOWN PROCEDURES AS WELL AS ALL REQUIREMENTS OF THIS PROJECT.

21). PITCH ALL STORM PIPING AS FOLLOWS: PIPING 3" AND SMALLER, PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM, PIPING 4" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.

22). REFER TO ARCHITECTURAL DRAWINGS AND THE PROJECT SPECIFICATIONS FOR ANY PROJECT PHASING REQUIREMENTS.

23). THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

24). THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.

25). CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.

26). ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE STATE AND LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS.

27). ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.

28). THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY STATE AND LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.

29). MEASURE AND REPORT EXISTING AIR FLOWS OF EQUIPMENT TO BE REMOVED PRIOR TO THE START OF WORK. ONCE WORK IS COMPLETED, REBALANCE EQUIPMENT TO THE VALUES MEASURED.

bell & spina ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534
Tel (315) 488 - 0377 Fax (315) 487 - 5947
Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK — JOSEPH MICHAEL PANEPINTO — 089553 — LICENSED PROFESSIONAL ENGINEER

EXPIRES: 12/2028

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PROJECT NORTH

CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
GS	JP
DATE	SCALE
11/02/2026	AS NOTED

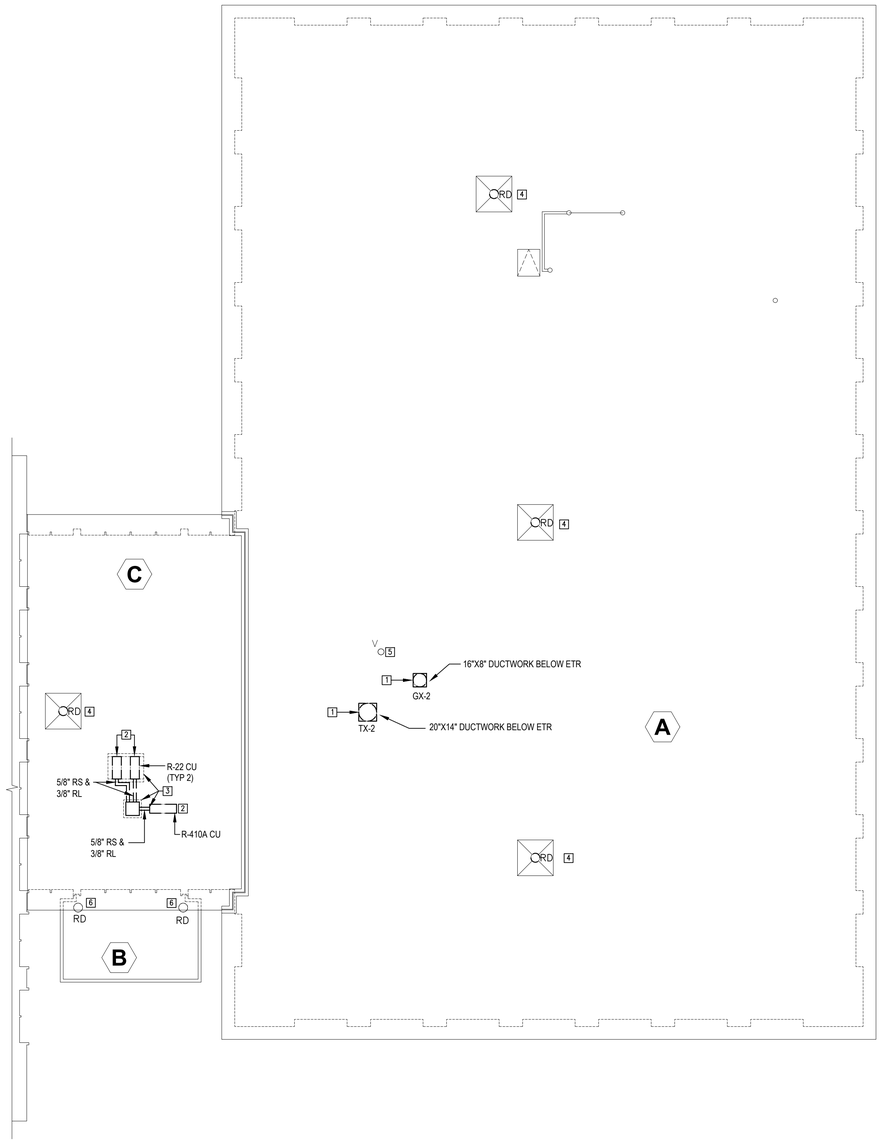
SHEET TITLE: MECHANICAL NOTES AND SYMBOLS

SHEET NUMBER: M-001

SHEET 33 OF 58

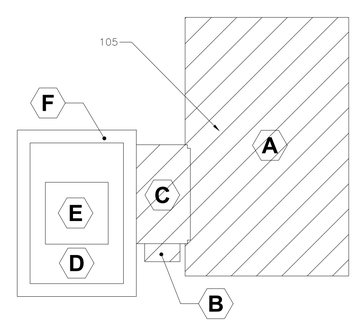
KEYNOTES:

1. DISCONNECT AND REMOVE EXHAUST FAN. EXISTING CONTROLS TO REMAIN. REFER TO DWG A-101 FOR REMOVAL OF ASSOCIATED EQUIPMENT CURB.
2. DISCONNECT AND REMOVE EXISTING CONDENSING UNIT, ASSOCIATED REFRIGERANT TUBING, AND CONTROL WIRING/CONDUIT INTO BUILDING. EVACUATE, RECOVER, AND DISPOSE OF REFRIGERANT PER EPA GUIDELINES USING EPA-CERTIFIED TECHNICIANS. DOCUMENT EQUIPMENT TAGS, REFRIGERANT QUANTITIES, REFRIGERANT TYPE, NAME OF TECHNICIAN, AND ASSOCIATED EPA CERTIFICATION TO PROVIDE TO CAMPUS. COORDINATE WITH CAMPUS FOR ADDITIONAL GUIDELINES AND DOCUMENTATION REQUIREMENTS.
3. REFER TO DWG A-101 FOR REMOVAL OF EXISTING ROOFTOP EQUIPMENT PAD AND PIPE CURB.
4. EXISTING ROOF DRAIN, REFER TO DWG A-101 FOR REMOVAL. REFER TO 1/MD-103 FOR ASSOCIATED STORM PIPING REMOVAL.
5. EXISTING VENT THROUGH ROOF, REFER TO DWG A-101 FOR ASSOCIATED WORK.
6. EXISTING TO REMAIN ROOF DRAIN. REFER TO DWG A-101 FOR ASSOCIATED WORK.



1 ADMINISTRATION BUILDING LOWER ROOF REMOVAL PLAN
SCALE: 1/8"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



KEY PLAN

bell & spina
ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1165-C Pittsford-Victor Rd Pittsford, NY 14534
Tel (315) 488-0377 Fax (315) 487-5947
Tel (585) 200-5038 Fax (585) 487-9532
info@bellandspina.com
www.bellandspina.com

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089553
LICENSED PROFESSIONAL ENGINEER
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PDG
POPLI DESIGN GROUP
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4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
MECHANICAL ADMINISTRATION BUILDING LOWER ROOF REMOVAL PLAN

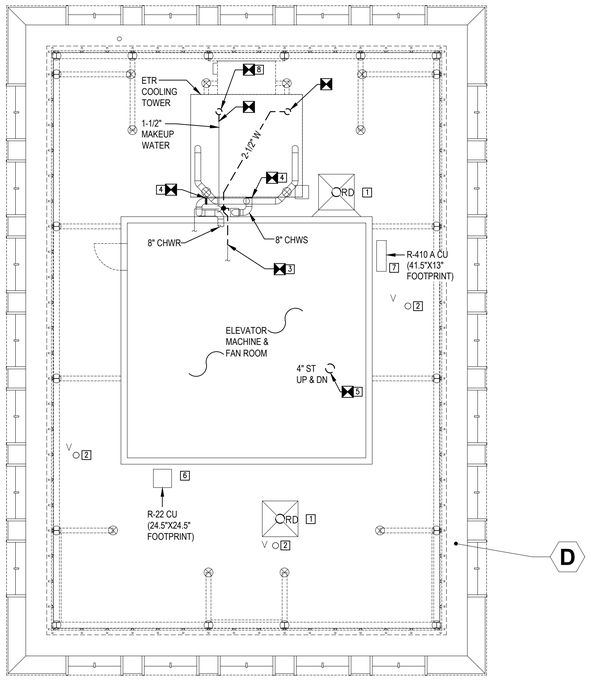
SHEET NUMBER
MD-101
SHEET 34 OF 58

GENERAL NOTES:

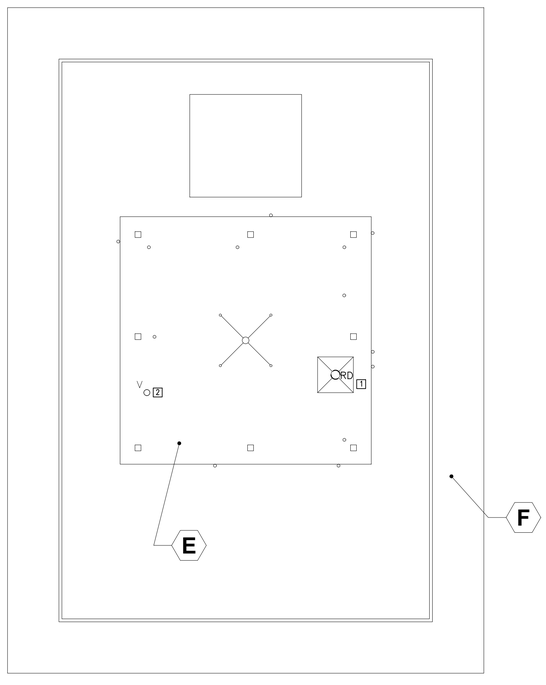
1. DISCONNECTING THE COOLING TOWER MAY BE REQUIRED IN ORDER FOR STRUCTURAL WORK TO BE PERFORMED ON THE ASSOCIATED DUNNAGE. THE WORK SHOWN ON THE M-DWGS ASSUMES THAT THE TOWER WILL NEED TO BE SLIGHTLY RAISED OR SHIMMED UP FOR THE PERFORMANCE OF STRUCTURAL WORK AS SHOWN ON THE S-DWGS. IF DETERMINED THAT THE TOWER DOES NOT NEED TO BE RAISED FOR STRUCTURAL WORK, THE TOWER MAY REMAIN CONNECTED TO THE 8" CHWS/R PIPING AND THE ONLY WORK REQUIRED WOULD BE THE 2-1/2" WASTE AND 1-1/2" MAKE UP WATER PIPING WORK SHOWN. THIS WORK IS REQUIRED TO ALLOW FOR THE INSTALLATION OF THE NEW ROOF SHOWN ON THE A-DWGS.

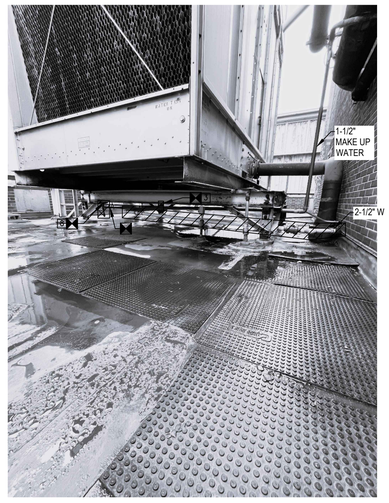
KEYNOTES:

1. EXISTING ROOF DRAIN, REFER TO DWG A-103 FOR REMOVAL. REFER TO 2/MD-103 FOR ASSOCIATED STORM PIPING REMOVAL.
2. EXISTING VENT THROUGH ROOF, REFER TO A-103 FOR ASSOCIATED WORK.
3. DISCONNECT AND REMOVE 2-1/2" WASTE PIPING BACK TO POINT SHOWN. EXISTING SHUT OFF VALVE TO BE REMOVED. PATCH AND SEAL WALL PENETRATION WATERTIGHT IN LOCATION OF PIPE REMOVAL.
4. DISCONNECT 8" CHWS/R PIPING AT FLANGE FOR COOLING TOWER DUNNAGE WORK SHOWN ON 7/S-300.
5. DISCONNECT AND REMOVE APPROXIMATELY FOUR (4) FEET OF STORM PIPING, COORDINATE WITH INSULATION REMOVALS SHOWN ON DWG H-101 AND ROOF DRAIN REMOVALS SHOWN ON A-103. REFER TO A-104 FOR TEMPORARY REMOVALS REQUIRED FOR ACCESS TO PIPING AND DRAIN BODY.
6. EXISTING TO REMAIN R-22 CONDENSING UNIT. PROVIDE TEMPORARY SUPPORT FOR CONDENSING UNIT AND REMOVE EXISTING WALL SUPPORT BRACKET. REFER TO 6/S-300 FOR NEW MOUNTING DETAILS. ONCE NEW MOUNT IS INSTALLED, PROVIDE OVER UNIT STRAPS TO SECURE UNIT TO MOUNTING SYSTEM. MAINTAIN MINIMUM 6" OF CLEARANCE BETWEEN UNIT AND WALL.
7. EXISTING TO REMAIN R-410A CONDENSING UNIT. PROVIDE TEMPORARY SUPPORT FOR CONDENSING UNIT AND REMOVE EXISTING WALL SUPPORT BRACKET. REFER TO 6/S-300 FOR NEW MOUNTING DETAILS. ONCE NEW MOUNT IS INSTALLED, PROVIDE FASTENERS TO SECURE UNIT FEET TO MOUNTING SYSTEM. MAINTAIN MINIMUM 6" OF CLEARANCE BETWEEN UNIT AND WALL.
8. DISCONNECT AND REMOVE 1-1/2" MAKE UP WATER PIPING FROM COOLING TOWER BACK TO POINT SHOWN. EXISTING DRAIN VALVE TO BE REMOVED.

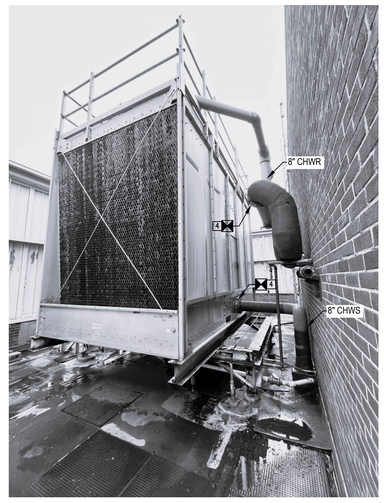


1 ADMINISTRATION BUILDING TOWER ROOF REMOVAL PLAN
SCALE: 1/8"=1'-0"



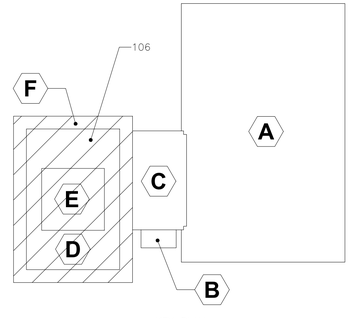


2 COOLING TOWER MAKEUP WATER AND WASTE PIPING REMOVALS
SCALE: NTS



3 COOLING TOWER CHWS/R PIPING REMOVALS
SCALE: NTS

0 4' 8' 16'
SCALE: 1/8"=1'-0"



KEY PLAN

bell & spina
ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534
Tel (315) 488 - 0377 Fax (315) 487 - 5947
Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
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STATE OF NEW YORK JOSEPH MICHAEL PAPPAS 089553 LICENSED PROFESSIONAL ENGINEER
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PROJECT NORTH

CONSULTANT
PDG
POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
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SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

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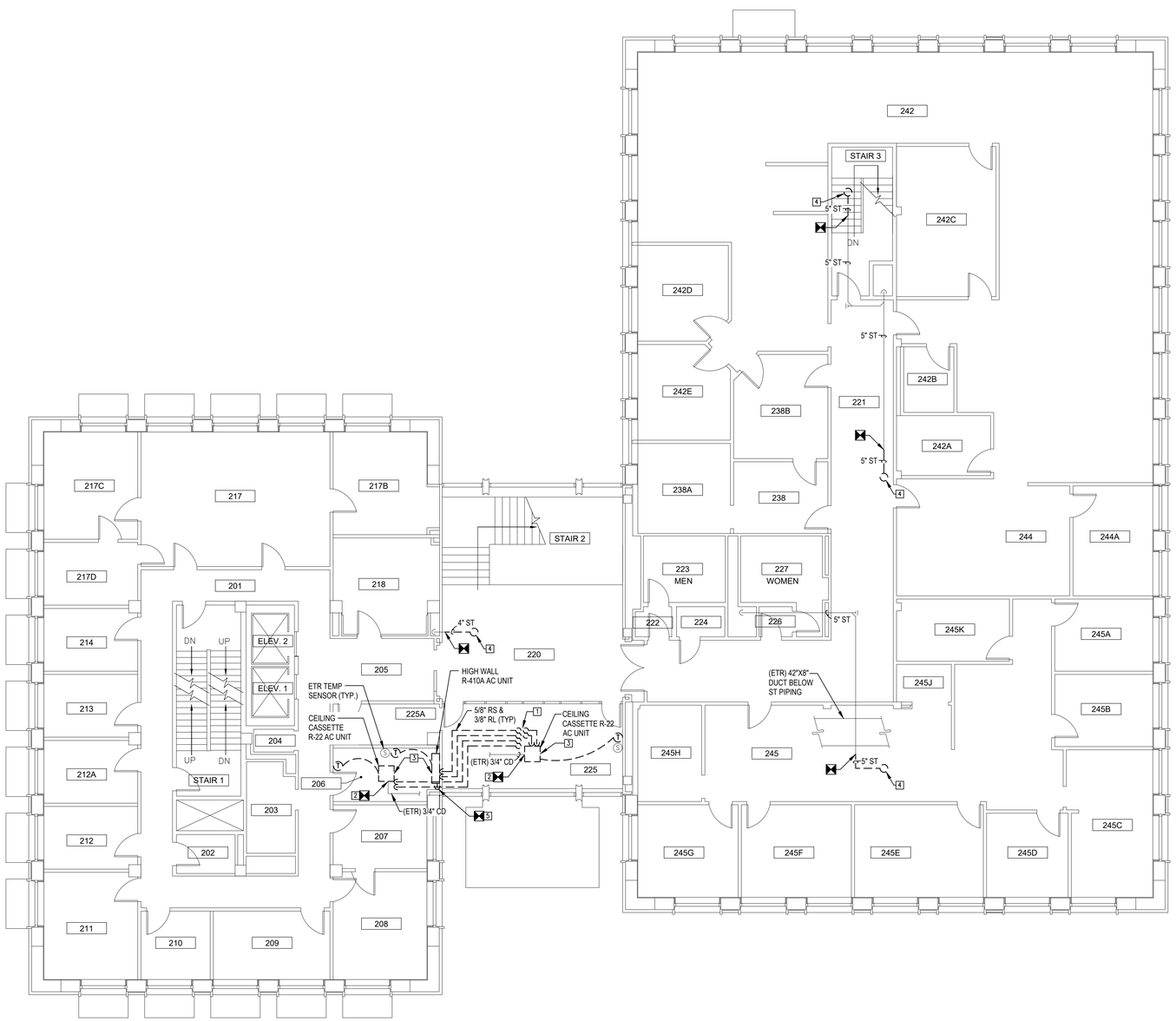
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GS	JP
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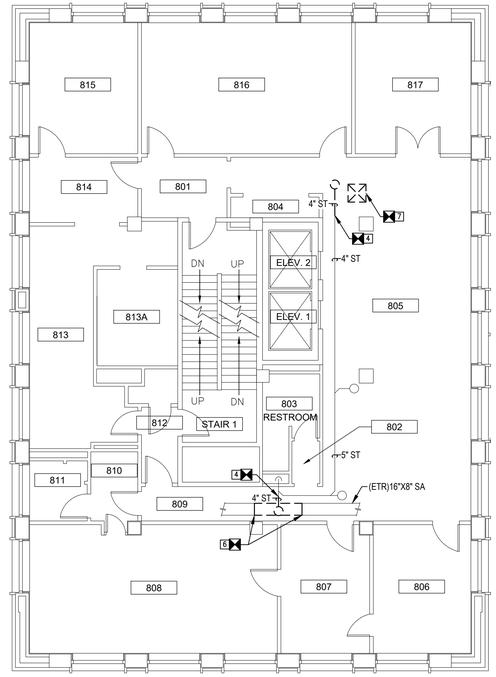
SHEET TITLE
MECHANICAL ADMINISTRATION BUILDING TOWER ROOF REMOVAL PLAN

SHEET NUMBER
MD-102
SHEET 35 OF 58

KEYNOTES:

1. REFRIGERANT PIPING UP THROUGH ROOF. REFER TO MD-101 FOR CONTINUATION.
2. DISCONNECT 3/4" CD LINE FROM AC UNIT. FIELD VERIFY EXISTING CONDENSATE DRAIN LOCATION. 3/4" CD LINE TO REMAIN FOR NEW CONNECTION.
3. DISCONNECT AND REMOVE AC UNIT. REMOVE ASSOCIATED REFRIGERANT PIPING, WALL MOUNTED THERMOSTAT AND CONTROL WIRING/CONDUIT. PATCH WALL IN LOCATION OF REMOVED THERMOSTAT. REFER TO DWG A-104 FOR CEILING REMOVAL.
4. DISCONNECT AND REMOVE APPROXIMATELY FOUR (4) FEET OF STORM PIPING, COORDINATE WITH INSULATION REMOVALS SHOWN ON DWG H-101 AND ROOF DRAIN REMOVALS SHOWN ON DWG A-101. REFER TO DWG A-104 FOR TEMPORARY CEILING REMOVALS REQUIRED FOR ACCESS TO PIPING AND DRAIN BODY.
5. DISCONNECT AND REMOVE CONDENSATE PUMP, 3/4" CD LINE, AND CLEAR CD TUBING ASSOCIATED WITH WALL MOUNTED AC UNIT.
6. DISCONNECT AND REMOVE SECTION OF 16"X8" DUCT TO PROVIDE ACCESS TO ROOF DRAIN ABOVE.
7. DISCONNECT AND REMOVE 24"X24" AIR GRILLE, TAG AND STORE TO ALLOW FOR CEILING REMOVAL SHOWN ON DWG A-104.





0 4' 8' 16'

SCALE: 1/8"=1'-0"

1 ADMINISTRATION BUILDING 2ND FLOOR DEMO PLAN
SCALE: 1/8"=1'-0"

2 ADMINISTRATION BUILDING 8TH FLOOR DEMO PLAN
SCALE: 1/8"=1'-0"

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ARCHITECTS
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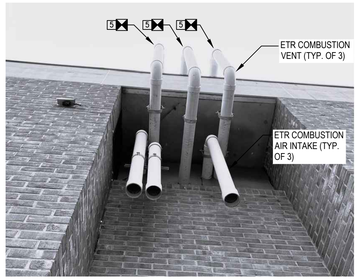
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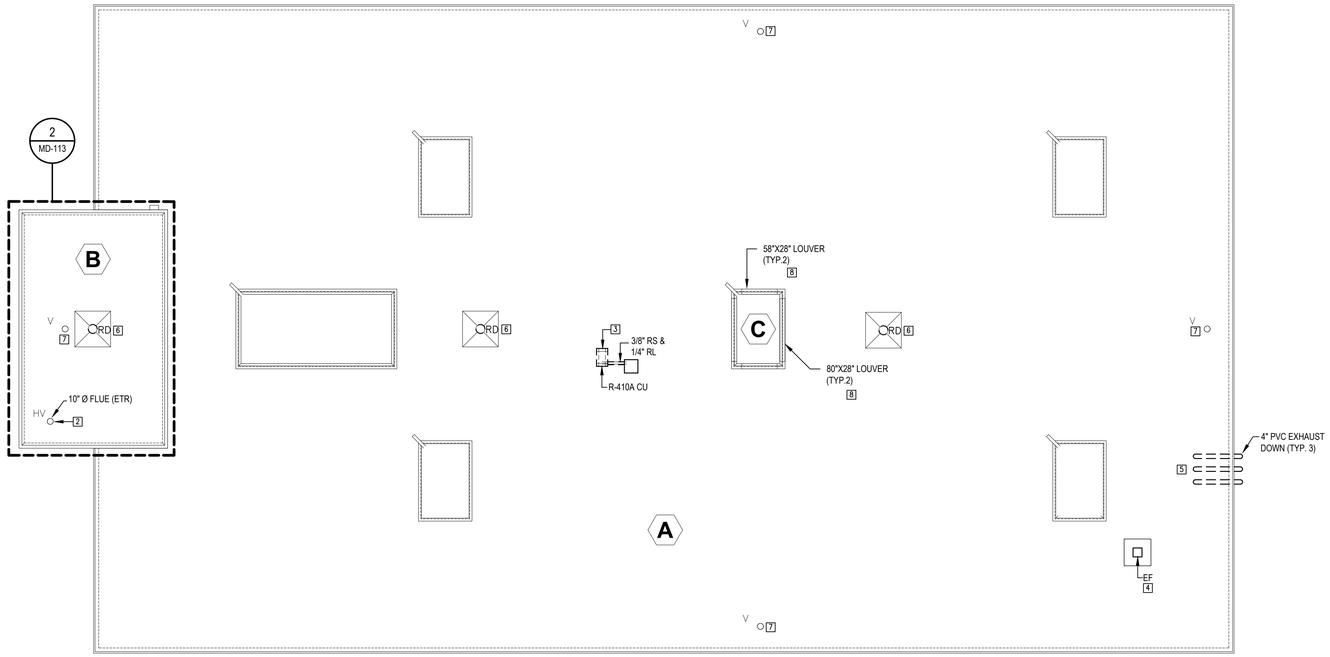
SHEET TITLE
MECHANICAL ADMINISTRATION BUILDING 2ND 8TH FLOOR DEMOLITION PLANS

SHEET NUMBER
MD-103

SHEET 36 OF 58



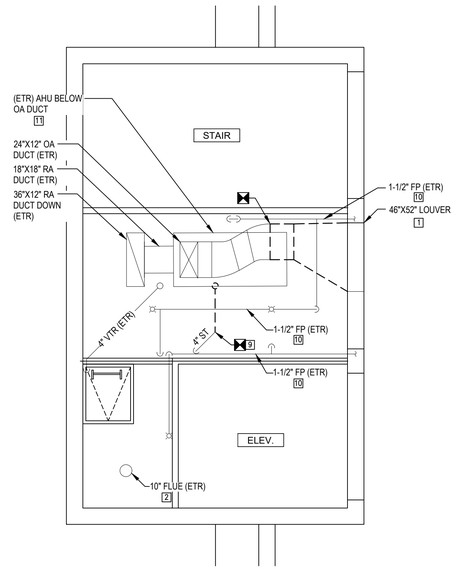
1 PVC EXHAUST & INTAKE VENTS
SCALE: NTS



2 HEALTH SERVICES BUILDING ROOF REMOVAL PLAN
SCALE: 1/8"=1'-0"

KEYNOTES: 7

1. EXISTING LOUVER, REFER TO DWG A-105 FOR REMOVAL. REMOVE DUCTWORK ASSOCIATED WITH LOUVER BACK TO POINT SHOWN. COORDINATE THE ASSOCIATED AIR HANDLING UNIT DOWN TIMES WITH FACILITY PRIOR TO PERFORMING WORK SHOWN.
2. EXISTING 10" CONCRETE LINED FLUE TO REMAIN.
3. DISCONNECT AND REMOVE EXISTING CONDENSING UNIT, EQUIPMENT STAND, ASSOCIATED REFRIGERANT TUBING, AND CONTROL WIRING/CONDUIT INTO BUILDING. EVACUATE, RECOVER, AND DISPOSE OF REFRIGERANT PER EPA GUIDELINES USING EPA-CERTIFIED TECHNICIANS. DOCUMENT EQUIPMENT TAGS, REFRIGERANT QUANTITIES, REFRIGERANT TYPE, NAME OF TECHNICIAN, AND ASSOCIATED EPA CERTIFICATION TO PROVIDE TO CAMPUS. COORDINATE WITH CAMPUS FOR ADDITIONAL GUIDELINES AND DOCUMENTATION REQUIREMENTS. REFER TO DWG A-105 FOR REMOVAL OF ASSOCIATED PIPE CURB.
4. DISCONNECT AND TEMPORARILY REMOVE EXHAUST FAN, TAG LOCATION. PROTECT AND STORE FOR RE-USE. REFER TO DWG A-105 FOR REMOVAL OF ASSOCIATED EQUIPMENT CURB. REFER TO DWG ED-103 FOR POWER REMOVAL.
5. DISCONNECT, TAG, AND STORE EXISTING PVC EXHAUST VENTS FOR RE-USE. REFER TO POINT OF DISCONNECT SHOWN ON 1/MD-104.
6. EXISTING ROOF DRAIN, REFER TO DWG A-105 FOR REMOVAL. REFER TO 3/MD-104 FOR ASSOCIATED STORM PIPING REMOVAL.
7. EXISTING VENT THROUGH ROOF, REFER TO DWG A-105 FOR ASSOCIATED WORK.
8. EXISTING LOUVER, REFER TO DWG A-105 FOR REMOVAL.
9. DISCONNECT AND REMOVE APPROXIMATELY FOUR (4) FEET OF STORM PIPING, COORDINATE WITH ROOF DRAIN REMOVALS SHOWN ON DWG A-105. REFER TO DWG A-106 FOR TEMPORARY CEILING REMOVALS REQUIRED FOR ACCESS TO PIPING AND DRAIN BODY.
10. EXISTING TO REMAIN SPRINKLER PIPING. PROTECT SPRINKLER PIPING AND UPRIGHT SPRINKLER HEADS THROUGHOUT DURATION OF PENTHOUSE CEILING WORK SHOWN ON DWG A-106.
11. EXISTING TO REMAIN AIR HANDLING UNIT. PROTECT ASSOCIATED HYDRONIC PIPING AND PIPING ACCESSORIES THROUGHOUT DURATION OF PENTHOUSE CEILING WORK SHOWN ON DWG A-106.



3 HEALTH SERVICES BUILDING PENTHOUSE REMOVAL PLAN
SCALE: 1/4"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

0 2' 4' 8'
SCALE: 1/4"=1'-0"

bell & spina ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534
Tel (315) 488 - 0377 Fax (315) 487 - 5947
Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

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EXPIRES: 12/2028

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PROJECT NORTH

CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
GS	JP
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
MECHANICAL
HEALTH SERVICES
BUILDING
ROOF REMOVAL
PLAN

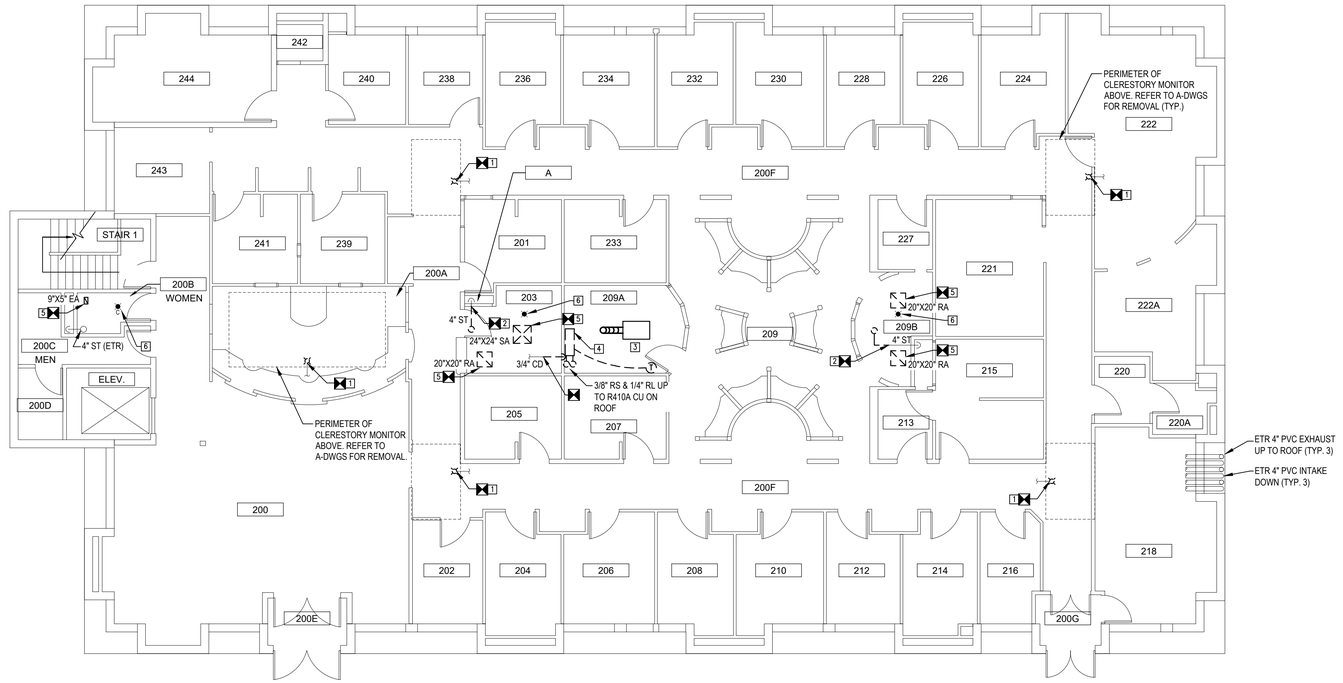
SHEET NUMBER
MD-104
SHEET 37 OF 58

TEMPORARY COOLING NOTES:

1. PORTABLE A/C UNIT SHALL BE PROVIDED IN CAPACITY AVAILABLE WITH 120V PLUG-IN POWER, COORDINATE WITH CAMPUS FOR RECEPTACLE LOCATIONS AND BRANCH CIRCUIT CAPACITIES. DESIGN INTENT IS TO PROVIDE SUPPLEMENTAL COOLING, NOT FULL CAPACITY. COORDINATE WITH CAMPUS FOR EQUIPMENT LOCATIONS AND MOVEMENT OF SPACE FURNISHINGS.
7. PORTABLE A/C UNIT TO BE CONTROLLED VIA INTEGRAL LCD DISPLAY, SETPOINTS TO BE DETERMINED BY CAMPUS AND SPACE OCCUPANTS IN ORDER TO PROVIDE SUPPLEMENTAL COOLING TO THE SPACE.
8. CAMPUS TO PROVIDE SAFETY MEASURES TO PREVENT OCCUPANT INTERACTION WITH TEMPORARY COOLING EQUIPMENT.
9. CAMPUS SHALL PROVIDE FOR MONITORING AND REMOVAL OF COOLING COIL CONDENSATE FROM TANKS.
10. CAMPUS RECOGNIZES THAT PORTABLE A/C UNITS PRODUCE NOISE; USAGE SHALL BE LIMITED DURING OCCUPIED PERIODS AS NEEDED.
11. COORDINATE WITH ROOFING WORK SCHEDULE AND PROVIDE WRITTEN PLAN DENOTING QUANTITY AND CAPACITY OF PORTABLE A/C UNITS AND ESTIMATED DURATION OF TIME REQUIRED FOR EACH SPACE. PLAN SHALL BE REVIEWED AND ACCEPTED BY CAMPUS PRIOR TO ORDERING EQUIPMENT.
12. AT CONCLUSION OF PROJECT, PORTABLE A/C UNIT SHALL BE TURNED OVER TO CAMPUS FOR THEIR INVENTORY.

KEYNOTES: [1]

1. REMOVE UPRIGHT SPRINKLER HEAD. REMOVE ASSOCIATED 1" SPRINKLER PIPE BACK TO ELBOW FITTING AS SHOWN ON 2/MD-105. CLOSE SYSTEM CONTROL VALVE AND DRAIN SYSTEM PRIOR TO WORK. PROVIDE FIRE WATCH THROUGHOUT DURATION OF WORK. COORDINATE FIRE PROTECTION SYSTEM SHUTDOWN WITH CAMPUS PRIOR TO WORK.
2. DISCONNECT AND REMOVE APPROXIMATELY FOUR (4) FEET OF STORM PIPING, COORDINATE WITH ROOF DRAIN REMOVALS SHOWN ON DWG A-105. REFER TO DWG A-106 FOR CEILING REMOVALS REQUIRED FOR ACCESS TO PIPING AND DRAIN BODY.
3. PROVIDE PORTABLE 1.1 TON A/C UNIT WITH MANUFACTURER'S AIR CHUTES WITH FLEX DUCT AND CONDENSATE TANK. DUCT CONDENSER AIR TO EXHAUST AIR PLENUM IN CEILING, COORDINATE WITH CAMPUS FOR TEMPORARY EXHAUST AIR GRILLE REMOVAL. REFER TO TEMPORARY COOLING NOTES SHOWN ON THIS DRAWING.
4. DISCONNECT AND REMOVE R-410A AC UNIT. REMOVE ASSOCIATED REFRIGERANT PIPING, WALL MOUNTED THERMOSTAT AND CONTROL WIRING/CONDUIT. FIELD VERIFY EXISTING CONDENSATE DRAIN LOCATIONS. EXISTING CONDENSATE PIPING TO REMAIN. REFER TO DWG A-106 FOR CEILING REMOVAL.
5. DISCONNECT AND REMOVE AIR GRILLE, TAG AND STORE TO ALLOW FOR CEILING REMOVAL SHOWN ON DWG A-106. ASSOCIATED DUCTWORK TO REMAIN FOR RECONNECTION.
6. EXISTING TO REMAIN SPRINKLER HEAD. PROTECT SPRINKLER HEAD FOR THE DURATION OF THE CEILING REMOVAL AND PATCHING WORK SHOWN ON DWG A-106.



1 HEALTH SERVICES BUILDING MAIN LEVEL REMOVAL PLAN
SCALE: 1/8"=1'-0"



2 SPRINKLER REMOVALS (TYP.)
SCALE: NTS

0 4' 8' 16'
SCALE: 1/8"=1'-0"

bell & spina ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534
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Tel (585) 200 - 5038 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

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PROJECT NORTH

CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
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BINGHAMTON, NY 13902
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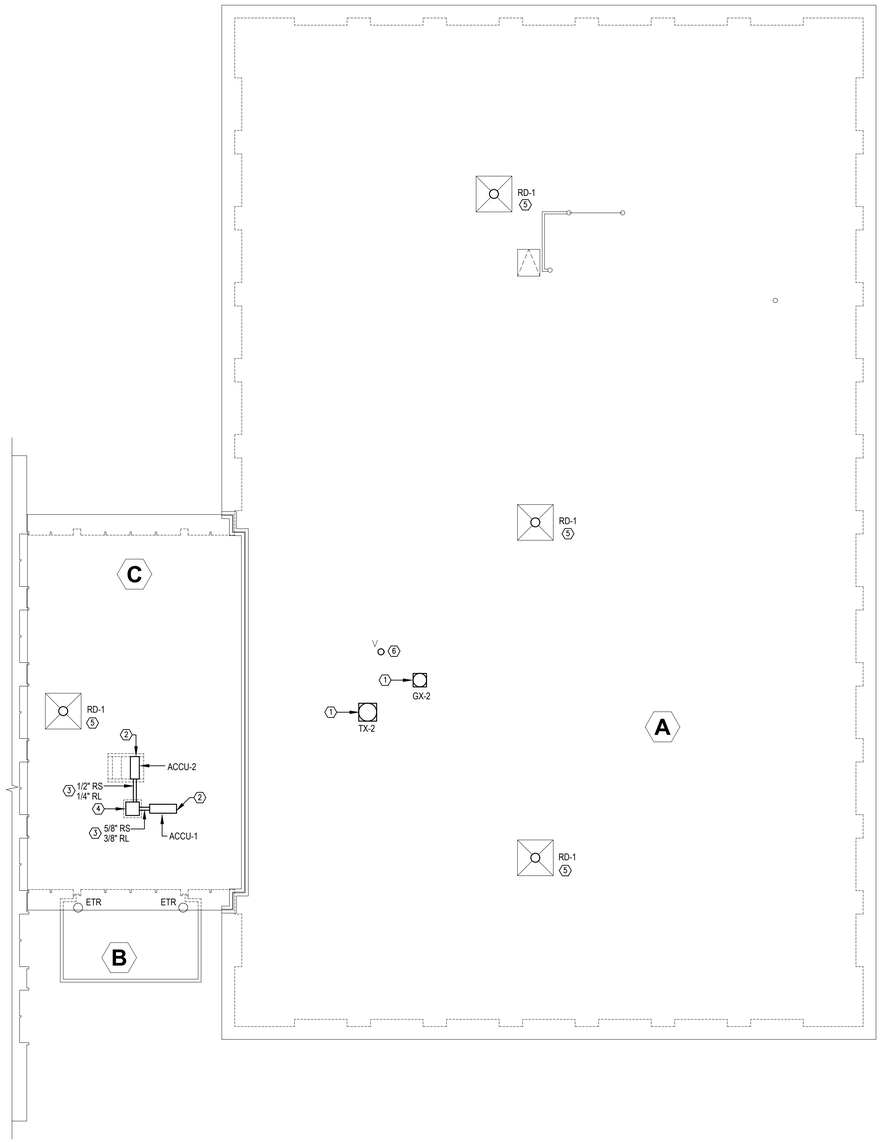
SHEET TITLE
MECHANICAL
HEALTH SERVICES
BUILDING
MAIN LEVEL
REMOVAL PLAN

SHEET NUMBER
MD-105
SHEET 38 OF 58

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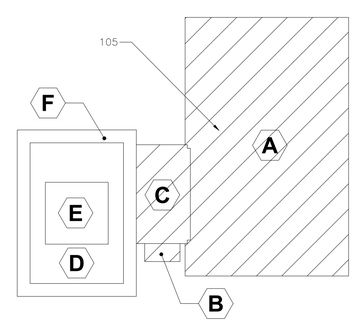
KEYNOTES: ⟨1⟩

1. PROVIDE EXHAUST FAN AND GRAVITY BACK DRAFT DAMPER ONCE CURB INSTALLATION AND FLASHING ARE COMPLETE. REFER TO DWG A-101 FOR ROOF CURB INSTALLATION. SECURELY FASTEN EXHAUST FAN TO CURB. PROVIDE WIRING TO EXISTING CONTROLS.
2. PROVIDE CONDENSING UNIT. PROVIDE FASNTERS TO SECURE CONDENSING UNIT FEET TO EQUIPMENT RAILS SHOWN ON DWG A-101.
3. PROVIDE RS/RL PIPING AND LOW VOLTAGE CONTROL WIRING FROM CONDENSING UNIT DOWN TO EVAPORATOR UNIT ON SECOND FLOOR. REFER TO M-103 FOR CONTINUATION OF PIPING.
4. REFER TO 12/A-503 FOR PIPE CURB INSTALLATION.
5. FURNISH ROOF DRAIN FOR INSTALLATION SHOWN ON DWG A-101. REFER TO DWG M-103 FOR ASSOCIATED STORM PIPING WORK.
6. EXISTING VENT THROUGH ROOF, REFER TO DWG A-105 FOR ASSOCIATED WORK.



1 ADMINISTRATION BUILDING LOWER ROOF PLAN
SCALE: 1/8"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



KEY PLAN

bell & spina
ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534
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www.bellandspina.com

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JOSEPH MICHAEL PAPPAS
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POPLI DESIGN GROUP
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SHEET TITLE
MECHANICAL ADMINISTRATION BUILDING LOWER ROOF PLAN

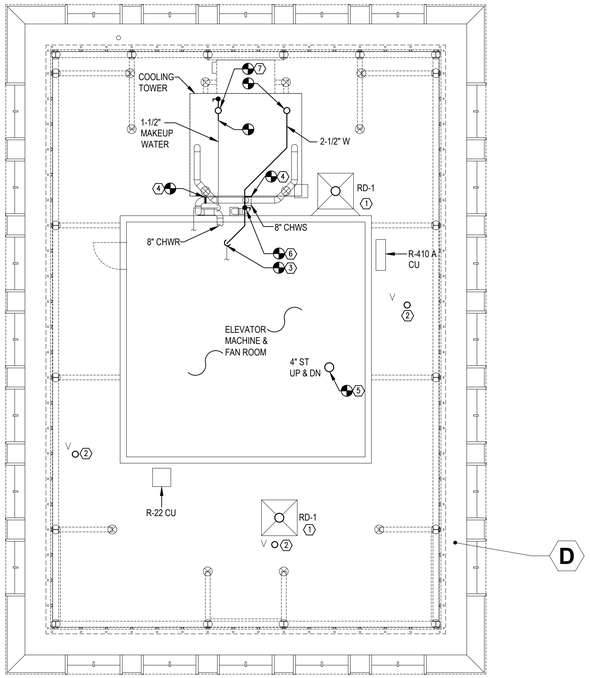
SHEET NUMBER
M-101
SHEET 39 OF 58

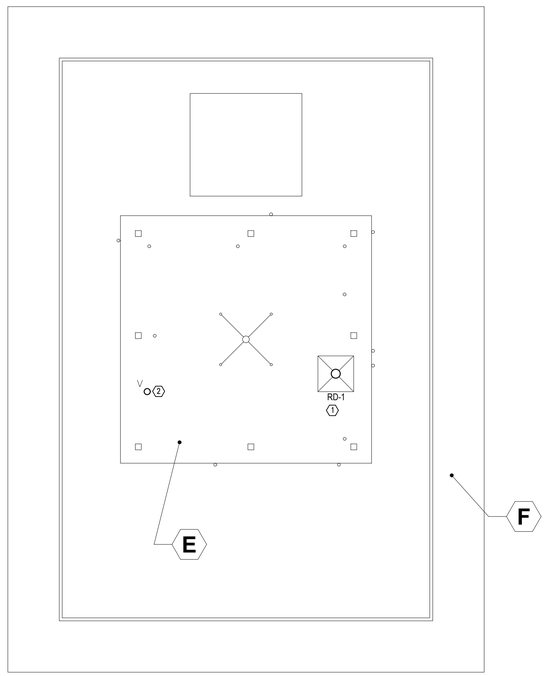
GENERAL NOTES:

1. DISCONNECTING THE COOLING TOWER MAY BE REQUIRED IN ORDER FOR STRUCTURAL WORK TO BE PERFORMED ON THE ASSOCIATED DUNNAGE. THE WORK SHOWN ON THE M-DWGS ASSUMES THAT THE TOWER WILL NEED TO BE SLIGHTLY RAISED OR SHIMMED UP FOR THE PERFORMANCE OF STRUCTURAL WORK AS SHOWN ON THE S-DWGS. IF DETERMINED THAT THE TOWER DOES NOT NEED TO BE RAISED FOR STRUCTURAL WORK, THE TOWER MAY REMAIN CONNECTED TO THE 8" CHWS/R PIPING AND THE ONLY WORK REQUIRED WOULD BE THE 2-1/2" WASTE AND 1-1/2" MAKE UP WATER PIPING WORK SHOWN. THIS WORK IS REQUIRED TO ALLOW FOR THE INSTALLATION OF THE NEW ROOF SHOWN ON THE A-DWGS.

KEYNOTES: (#)

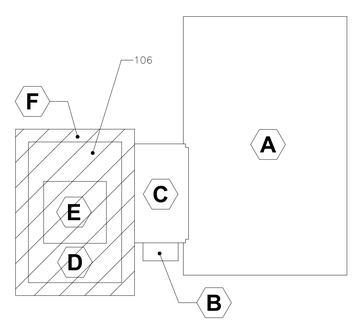
1. FURNISH ROOF DRAIN FOR INSTALLATION SHOWN ON DWG A-103. REFER TO DWG M-103 FOR ASSOCIATED STORM PIPING WORK.
2. EXISTING VENT THROUGH ROOF. REFER TO DWG A-103 FOR ASSOCIATED WORK.
3. PROVIDE 2-1/2" WASTE PIPING FROM COOLING TOWER DRAIN AND CONNECT TO EXISTING PIPING WHERE SHOWN. PIPING TO BE 12" MIN. ABOVE FINISHED ROOF.
4. RECONNECT 8" CHWS/R PIPING AT FLANGE UPON COMPLETION OF COOLING TOWER DUNNAGE WORK SHOWN ON 7/S-300.
5. PROVIDE 4" STORM PIPING TO CONNECT EXISTING PIPING TO NEW ROOF DRAIN. INSULATE DRAIN BODY AND PIPING BACK TO REMOVAL POINT SHOWN ON H-101.
6. PROVIDE 2-1/2" PVC QUARTER TURN BALL VALVE WITH SOCKET ENDS IN WASTE PIPING, SPEARS PVC TRUE UNION, HAYWARD TB SERIES, OR GF PIPING SYSTEMS TYPE 546.
7. PROVIDE 1-1/2" MAKEUP WATER PIPING TO RECONNECT EXISTING PIPING TO COOLING TOWER. MAINTAIN EXISTING PIPING SLOPE AND PROVIDE 1-1/2" BRONZE QUARTER TURN BALL VALVE WITH 3/4" HOSE CONNECTION, WATTS LFB6081G2, APOLLO 70 SERIES OR NIBCO T-585-70-HC.





0 4' 8' 16'

SCALE: 1/8"=1'-0"



KEY PLAN

1 ADMINISTRATION BUILDING TOWER ROOF PLAN
SCALE: 1/8"=1'-0"

bell & spina ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534
Tel (315) 488 - 0377 Fax (315) 487 - 5947
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JOSEPH MICHAEL PANEPINTO 089553 LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

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CONSULTANT

PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS

BINGHAMTON UNIVERSITY

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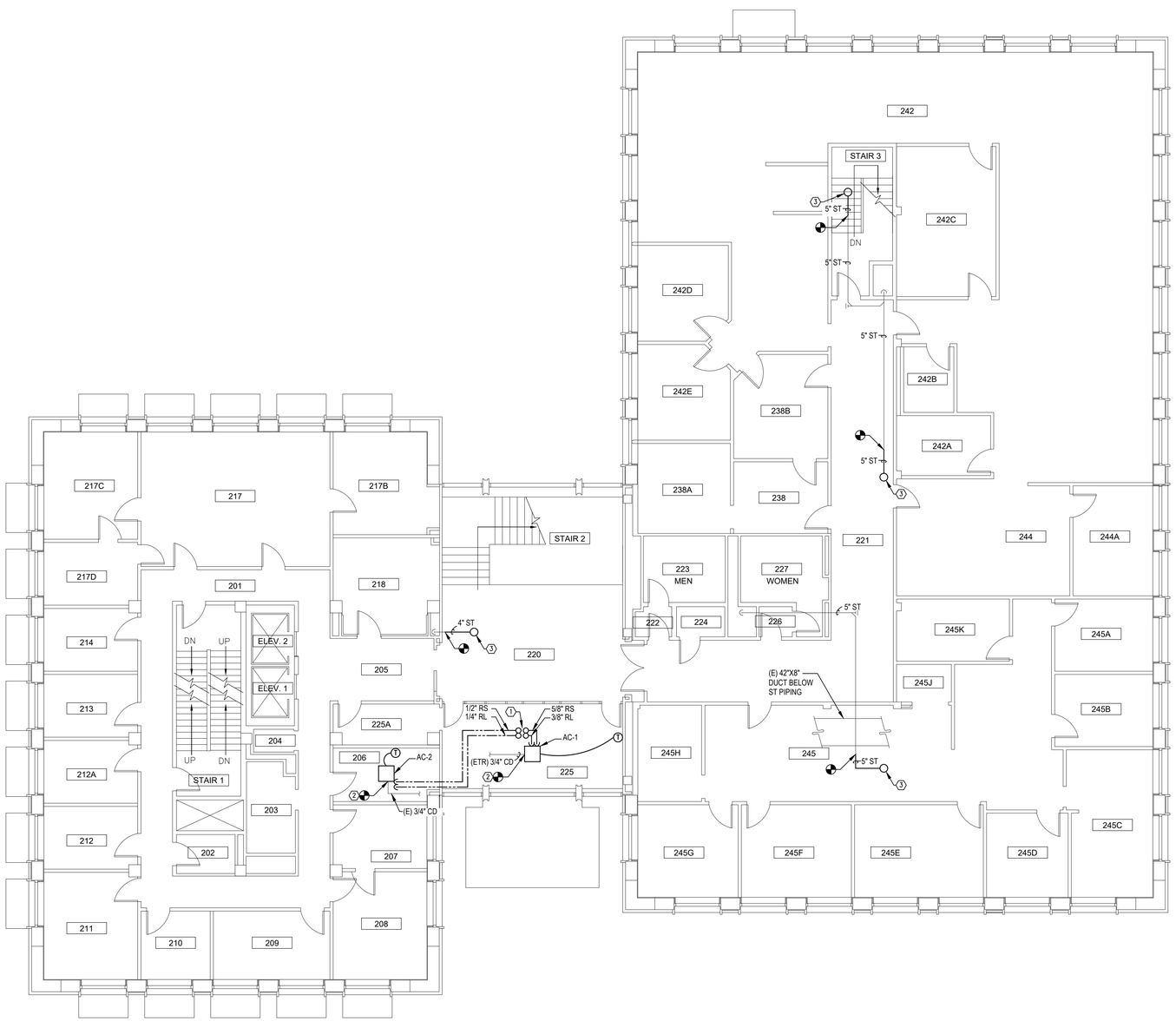
SHEET TITLE

MECHANICAL ADMINISTRATION BUILDING TOWER ROOF PLAN

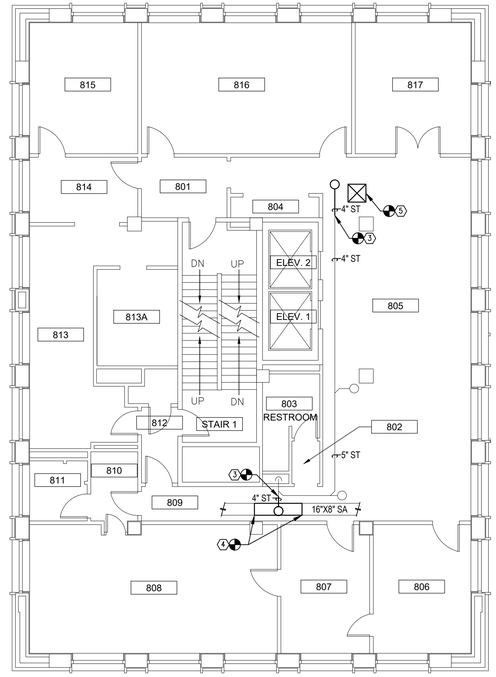
SHEET NUMBER
M-102
SHEET 40 OF 58

KEYNOTES: (1)

1. REFRIGERANT PIPING UP THROUGH ROOF. REFER TO M-110 FOR CONTINUATION.
2. PROVIDE AC UNIT, WALL MOUNTED THERMOSTAT, LOW VOLTAGE CONTROL WIRING AND REFRIGERANT PIPING. CUT AND PATCH WALL AS REQUIRED FOR INSTALLATION OF THERMOSTAT. PROVIDE 3/4" CD TO CONNECT AC UNIT TO EXISTING CD DRAIN LINE. LOCATION OF EXISTING DRAIN LINE TO BE VERIFIED IN FIELD.
3. PROVIDE STORM PIPING TO CONNECT EXISTING TO NEW ROOF DRAIN. INSULATE DRAIN BODY AND PIPING BACK TO REMOVAL POINT SHOWN ON H-DWGS. REFER TO A-DWGS FOR CEILING RE-INSTALLATION.
4. ONCE ROOF DRAIN WORK IS COMPLETE, PROVIDE 16"X8" SA DUCT TO RECONNECT EXISTING SUPPLY AIR DUCT.
5. REINSTALL EXISTING AIR GRILLE IN CEILING UPON COMPLETION OF ROOF DRAIN WORK.



1 ADMINISTRATION BUILDING 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



2 ADMINISTRATION BUILDING 8TH FLOOR PLAN
SCALE: 1/8"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

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089553
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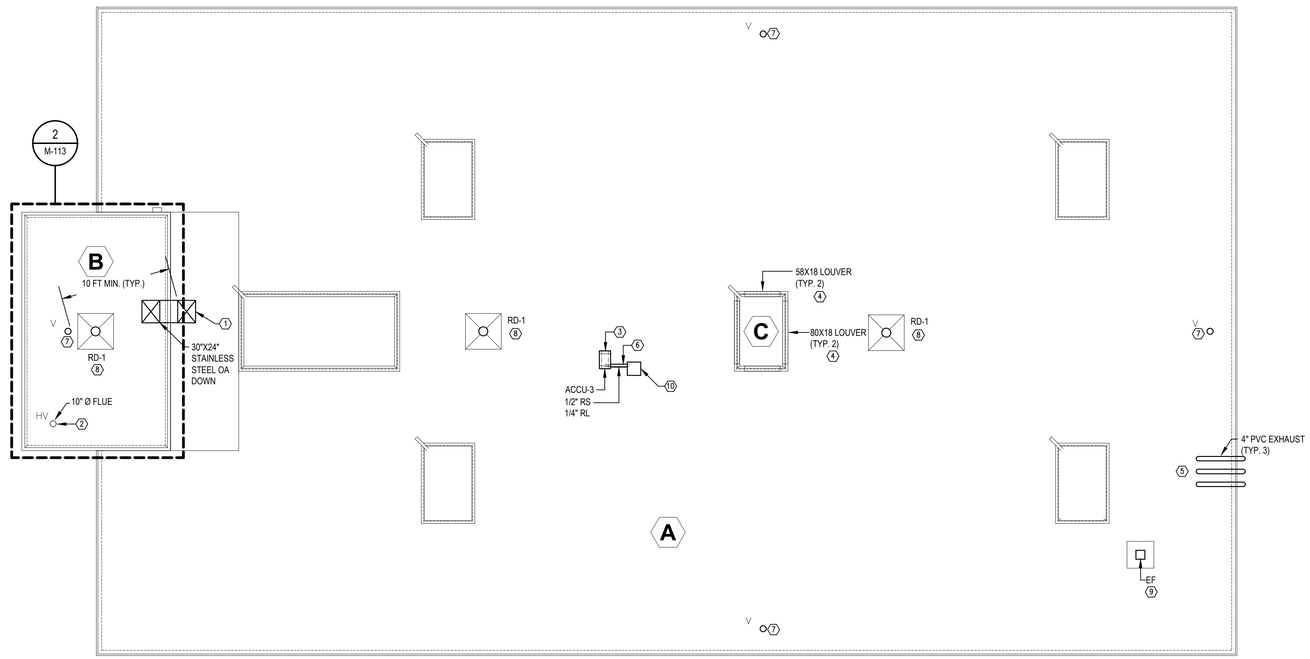
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DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
MECHANICAL ADMINISTRATION BUILDING 2ND 8TH FLOOR PLANS

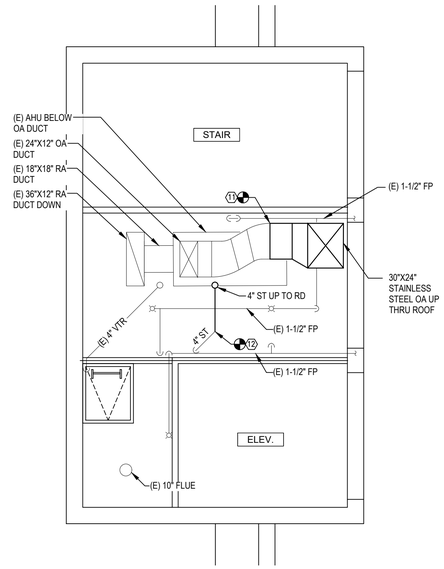
SHEET NUMBER
M-103
SHEET 41 OF 58

KEYNOTES:

1. PROVIDE 30"X24" STAINLESS STEEL OA DUCT UP THROUGH ROOF AND TERMINATE WITH GOOSENECK. PROVIDE POWDER COAT FINISH WITH UV RESISTANCE FOR GOOSENECK WITH COLOR FROM MANUFACTURER'S STANDARD COLOR PALETTE AS SELECTED BY ARCHITECT (TIGER SEALKOR, AXALTA ALESTA SD, OR PPG ENVIROCRON). MAINTAIN 10 FT MINIMUM DISTANCE FROM GOOSENECK INLET TO ALL VENTS AND EXHAUST AIR OUTLETS.
2. EXISTING 10" CONCRETE LINED FLUE. REFER TO DWG A-105 FOR FLASHING DETAILS.
3. PROVIDE CONDENSING UNIT. BOLT TO EQUIPMENT RAILS SHOWN ON DWG A-105.
4. REFER TO DWG A-105 FOR LOUVER.
5. PROVIDE 4" PVC PIPING TO EXTEND VERTICAL PORTION OF EXHAUST VENT. REINSTALL EXISTING VENT PIPING ONTO EXTENSION. VERTICAL PORTION OF PIPING TO BE EXTENDED SO THAT REINSTALLED VENT PIPING IS A MINIMUM OF 24" FROM BOTTOM OF PIPE TO FINISHED ROOF SURFACE. PROVIDE ROOFTOP PIPE SUPPORTS.
6. PROVIDE RS/RL PIPING AND LOW VOLTAGE CONTROL WIRING FROM CONDENSING UNIT DOWN TO EVAPORATOR UNIT ON SECOND FLOOR. REFER TO DWG M-105 FOR CONTINUATION OF PIPING.
7. EXISTING VENT THROUGH ROOF, REFER TO DWG A-105 FOR ASSOCIATED WORK.
8. FURNISH ROOF DRAIN FOR INSTALLATION SHOWN ON DWG A-105. REFER TO DWG M-105 FOR ASSOCIATED STORM PIPING WORK.
9. REINSTALL EXISTING EXHAUST FAN WHEN CURB INSTALLATION AND FLASHING ARE COMPLETE. REFER TO DWG A-105 FOR ROOF CURB INSTALLATION. PROVIDE EXTENSION OF EXISTING DUCTWORK TO RECONNECT FAN.
10. REFER TO 12/A-503 FOR PIPE CURB INSTALLATION.
11. PROVIDE 24"X12" STAINLESS STEEL OA DUCT AND CONNECT TO EXISTING 24"X12"GALVANIZED STEEL DUCT. PROVIDE FLANGES WITH A LAYER OF DIELECTRIC TAPE ON EACH SIDE FOR CONNECTION.
12. PROVIDE STORM PIPING TO CONNECT EXISTING TO NEW ROOF DRAIN. INSULATE DRAIN BODY AND PIPING. REFER TO DWG A-106 FOR CEILING RE-INSTALLATION.



1 HEALTH SERVICES BUILDING ROOF PLAN
SCALE: 1/8"=1'-0"



2 HEALTH SERVICES BUILDING PENTHOUSE PLAN
SCALE: 1/4"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

0 2' 4' 8'
SCALE: 1/4"=1'-0"

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089553
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PROJECT NORTH

CONSULTANT
PDG
POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
GS	JP
DATE	SCALE
11/02/2026	AS NOTED

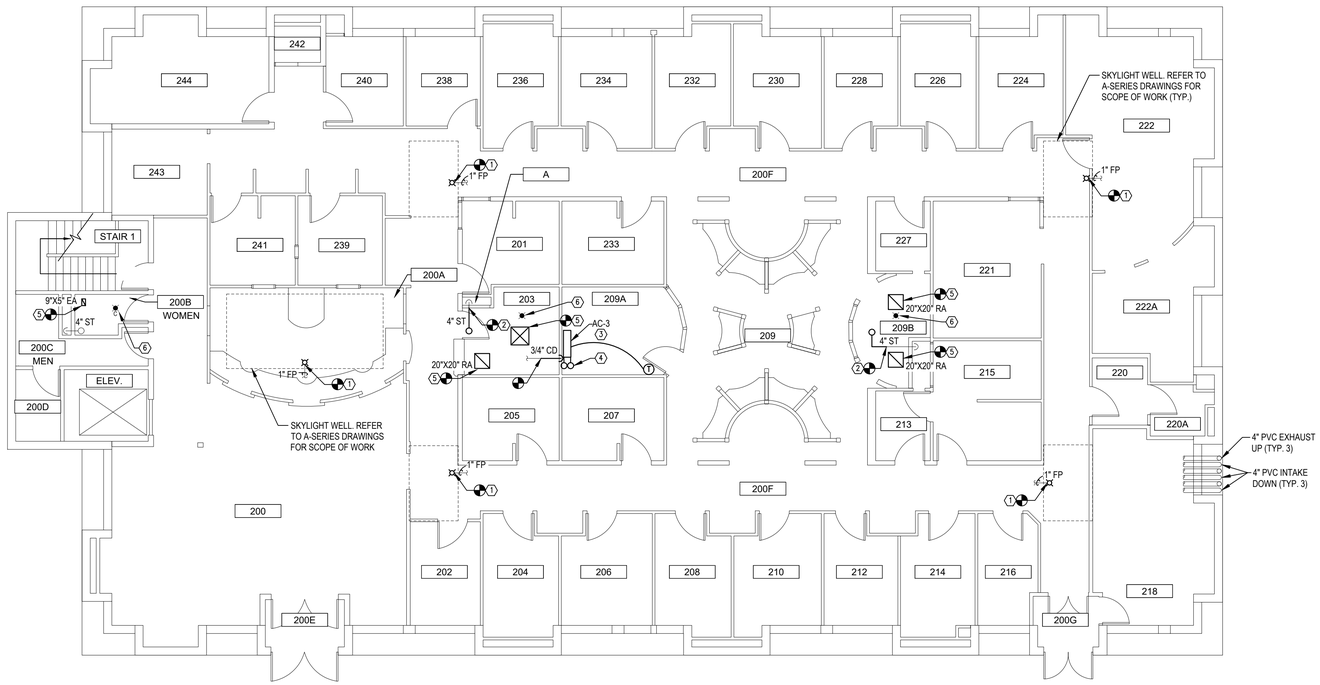
SHEET TITLE
MECHANICAL
HEALTH SERVICES
BUILDING
ROOF PLAN

SHEET NUMBER
M-104
SHEET 42 OF 58

12/02/2025 2:08:41 PM

KEYNOTES:

1. PROVIDE ONE FOOT OF 1" FP PIPE UP FROM EXISTING ELBOW AND PROVIDE UPRIGHT SPRINKLER HEAD. PRESSURE TEST FOR LEAKS AND REFILL WET PIPE SPRINKLER SYSTEM UPON COMPLETION OF WORK. PAINT PIPING TO MATCH EXISTING.
2. PROVIDE STORM PIPING TO CONNECT EXISTING TO NEW ROOF DRAIN. INSULATE DRAIN BODY AND PIPING. REFER TO DWG A-106 FOR CEILING RE-INSTALLATION.
3. PROVIDE AC UNIT AND WALL MOUNT 7'-0" AFF. COORDINATE MOUNTING HEIGHT AND LOCATION WITH EXISTING SPACE. PROVIDE WALL MOUNTED THERMOSTAT, LOW VOLTAGE CONTROL WIRING AND REFRIGERANT PIPING. PROVIDE 3/4" CD TO CONNECT AC UNIT TO EXISTING CD DRAIN LINE. LOCATION OF EXISTING DRAIN LINE TO BE VERIFIED IN FIELD.
4. PROVIDE 1/2" RS AND 1/4" RL PIPING UP THROUGH ROOF. REFER TO M-104 FOR CONTINUATION.
5. REINSTALL EXISTING AIR GRILLE IN NEW CEILING AND RECONNECT TO EXISTING DUCTWORK.
6. EXISTING SPRINKLER HEAD. REFER TO 1/MD-105 FOR PROTECTION OF HEAD DURING CEILING WORK.



0 4' 8' 16'

SCALE: 1/8"=1'-0"

1 HEALTH SERVICES BUILDING MAIN LEVEL PLAN

SCALE: 1/8"=1'-0"

bell & spina ARCHITECTS

215 Wyoming Street Syracuse, NY 13204
1160-C Pittsford-Victor Rd Pittsford, NY 14534

Tel (315) 488 - 0377 Fax (315) 487 - 5947
Tel (585) 200 - 5038 Fax (585) 487 - 9532

info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK JOSEPH MICHAEL PAPPAS 089553 LICENSED PROFESSIONAL ENGINEER

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CONSULTANT

PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

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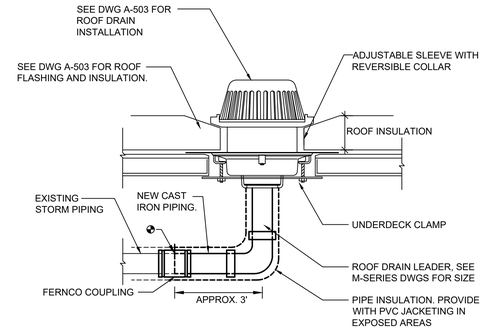
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SHEET TITLE

MECHANICAL
HEALTH SERVICES
BUILDING
MAIN LEVEL PLAN

SHEET NUMBER M-105

SHEET 43 OF 58



NOTES

1. CUT EXISTING STORM PIPE TO ALLOW FOR NEW PIPING INSTALLATION SHOWN ON DETAIL.

④ ROOF DRAIN LEADER CONNECTION DETAIL
N.T.S.

1. SPLIT SYSTEM AC UNITS SHALL OPERATE UTILIZING THEIR MANUFACTURER PROVIDED CONTROLS.
2. THE SYSTEMS' INTEGRAL CONTROLS SHALL AUTOMATICALLY CYCLE THE INDOOR AND OUTDOOR UNITS AS REQUIRED TO MAINTAIN THE FOLLOWING SPACE TEMPERATURE ADJUSTABLE SETPOINTS:

   COOLING MODE: 75 DEG F

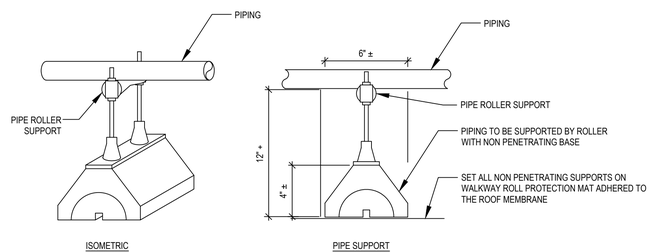
   HEATING MODE: 72 DEG F

3. THE SYSTEM SHALL BE PROVIDED WITH A LOCAL THERMOSTAT CONTROLLER FOR ADJUSTMENT OF THE TEMPERATURE SETPOINT AND OPERATING MODE.

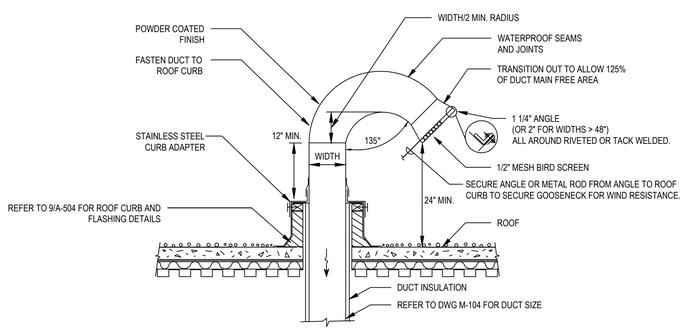
⑥ SPLIT SYSTEM CONTROL SEQUENCE
N.T.S.

PIPING SUPPORT SPACING		
PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FT)	MAXIMUM VERTICAL SPACING (FT)
COPPER OR COPPER-ALLOY PIPE	12	10
STEEL PIPE	12	15

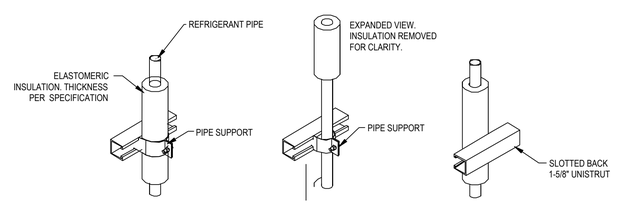
③ PIPING SUPPORT SPACING SCHEDULE
N.T.S.



② TYPICAL ROOF PIPE SUPPORT DETAIL
N.T.S.



⑤ GOOSENECK DUCT INTAKE DETAIL
N.T.S.



① VERTICAL REFRIGERATION PIPING SUPPORT DETAIL
N.T.S.

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SHEET TITLE
MECHANICAL DETAILS AND CONTROLS

SHEET NUMBER
M-500
SHEET 44 OF 58

REFRIGERANT SYSTEM CHARGE LIMITS

UNIT NO. (INDOOR, OUTDOOR)	INDOOR UNIT LOCATION	SYSTEM CHARGE LIMITS ($m_s \leq$ EDVC, EDVC = $M_{def} \times F_{LFL} \times F_{OCC}$)						
		REFRIGERANT TYPE	RELEASABLE REFRIGERANT CHARGE (m_s) (LB)	REFRIGERANT CHARGE LIMIT (M_{def}) (LB)	LOWER FLAMMABILITY LIMIT CONVERSION (F_{LFL})	OCCUPANCY ADJUSTMENT FACTOR (F_{OCC})	EFFECTIVE DISPERSAL VOLUME CHARGE (EDVC) (LB)	$m_s \leq$ EDVC
AC-1, ACCU-1	ADMIN 225	R454B	7.69	14.8	0.96	1	14.21	YES
AC-2, ACCU-2	ADMIN 206	R454B	4.38	12.4	0.96	1	6.75	YES
AC-3, ACCU-3	HEALTH 209A	R454B	4.38	16.2	0.96	1	15.5	YES

PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	ADA	CONNECTION SIZE (INCHES)						BASIS OF DESIGN	NOTES
			STORM	VENT	CW	HW	SAN	TRAP		
RD-1	ROOF DRAIN	----	VARIES, REFER TO PLANS	----	----	----	----	----	JAY R. SMITH 1015 E	WITH SUMP PAN

SPLIT SYSTEM HEAT PUMP (DX) SCHEDULE

UNIT NO. (INDOOR, OUTDOOR)	LOCATION	COOLING DATA		HEATING DATA			REFR. TYPE	INDOOR UNIT			OUTDOOR UNIT				BASIS OF DESIGN		NOTES
		CAP. MBH	EER2/SEER2	CAP. MBH @ 47 °F	CAP. MBH @ 5 °F	HSPF2		CFM (HIGH/LOW)	WEIGHT (LB)	TYPE	V/PH/HZ	MOCP	MCA	WEIGHT	MANUFACTURER	MODEL NO. (OUTDOOR, INDOOR)	
AC-1, ACCU-1	ADMIN 225	24	13.2/22.6	31.6	11.5	9.8	R454B	810/530	57	CEILING CASSETTE	208-230/1/60	25	22	155	MITSUBISHI	PUZ-AH24NL, PLA-AE24NL	2,3
AC-2, ACCU-2	ADMIN 206	12	17.1/24.8	20.0	8.8	10.9	R454B	530/370	46	CEILING CASSETTE	208-230/1/60	20	16	100	MITSUBISHI	PUZ-AK12NL, PLA-AE12NL	2,3
AC-3, ACCU-3	HEALTH 209A	12	14.8/21.1	18.0	8.0	10.1	R454B	375/215	32	WALL MOUNTED	208-230/1/60	20	16	100	MITSUBISHI	PUZ-AK12NL; PKA-AL12NL	1,3

NOTES:
1. PROVIDE WITH CONDENSATE PUMP RATED FOR A MINIMUM FLOW OF 1.3 GPH @ 16 FT HD (BLUE DIAMOND "MICROBLUE", ASPEN "SILENT+ MINI AQUA", REFCO "VAMP-F", OR EQUAL).
2. PROVIDE INDOOR UNIT WITH MANUFACTURER'S BUILT IN CONDENSATE LIFT MECHANISM.
3. PROVIDE WITH MANUFACTURER'S WALL MOUNTED WIRED THERMOSTAT.

EXHAUST FAN SCHEDULE

UNIT	LOCATION	SERVICE	TYPE	CFM	ESP (IN WG)	FAN RPM	FAN DRIVE	MOTOR DATA		ELECTRICAL				MAX. SONES	WEIGHT (LBS)	BASIS OF DESIGN		NOTES
								HP	BHP	V/PH/HZ	MCA	MOCP	FLA			MANUFACTURER	MODEL NO.	
GX-2	ADMIN ROOF A	ADMIN 121 & 224	DOWNBLAST CENTRIFUGAL	750	0.50	1282	DIRECT	1/4	0.12	115/1/60	4.8	15	3.8	6.3	54	GREENHECK	G-100-VG	ALL
TX-2	ADMIN ROOF A	ADMIN 120, 124, 223 & 227	UPBLAST CENTRIFUGAL	1900	0.50	919	DIRECT	1/2	0.29	115/1/60	8.2	15	6.6	10.2	93	GREENHECK	CUE-160-VG	ALL

NOTES:
1. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.

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SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M-600
SHEET 45 OF 58

Substitute Color As

GENERAL NOTES

1. THESE CONTRACT DOCUMENTS ARE SCHEMATIC IN NATURE. FINAL DETAILS OF WORK SHALL BE PROVIDED BY THE CONTRACTOR TO COMPLY WITH PROJECT REQUIREMENTS AND TO INSTALL A COMPLETE SYSTEM. LOCATIONS OF DEVICES AND EQUIPMENT SHOW A GENERAL ARRANGEMENT AND/OR INTENDED FUNCTION. ALL COMPONENTS TO BE INSTALLED ARE NOT SHOWN ON ALL DRAWINGS OR DETAILS, BUT SHALL BE INCLUDED AS NECESSARY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL EQUIPMENT.

2. THE CONTRACT SPECIFICATIONS FOR THIS PROJECT ARE AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS AND SHALL BE CONSIDERED PART OF AND COMPLEMENTARY TO THE INFORMATION IN THESE CONTRACT DRAWINGS. WHEN THE CONTRACT DRAWINGS AND SPECIFICATIONS APPEAR TO BE IN CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL BE FOLLOWED. HOWEVER, THE DIRECTION OF THE ARCHITECT/ENGINEER SHALL SUPERSEDE THIS PRECEDENCE.

3. ALL REFERENCES TO THE CONTRACTOR REFERS TO THE CONTRACTOR OR CONTRACTORS RESPONSIBLE FOR ANY AND ALL WORK SHOWN ON THESE ELECTRICAL CONTRACT DOCUMENTS.

4. ALL MATERIAL AND EQUIPMENT SHALL BE UL LISTED AS APPROPRIATE FOR THE APPLICATION.

5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR SHOP FABRICATION. REQUIRED CHANGES TO THE WORK AS SHOWN ON THESE CONTRACT DOCUMENTS SHALL BE APPROVED AND ACKNOWLEDGED BY THE ENGINEER, OTHER TRADES, AND OWNER, IN WRITING, PRIOR TO ANY CONSTRUCTION. BEFORE INSTALLATION OR FABRICATION OF WORK, THE CONTRACTOR SHALL CHECK FOR ALL REQUIRED CLEARANCES, INCLUDING DOOR SWINGS AND ELEVATIONS, TO AVOID INTERFERENCE WITH OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COORDINATING WITH ALL CONTRACT DOCUMENTS, SHOP DRAWINGS, CONTRACTOR SUBMITTALS AND EQUIPMENT CONTRACT DOCUMENTS.

6. COORDINATE THE WORK ON THESE DRAWINGS WITH THE WORK OF ALL OTHER DRAWINGS, CONTRACTS AND ANY OTHER PROJECTS IN THE AFFECTED AND/OR ADJACENT AREAS. COORDINATE SHUTDOWN OF EXISTING SYSTEMS WITH OWNER AND OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR DISABLING EXISTING SYSTEMS AS REQUIRED, AND IS RESPONSIBLE FOR PERFORMING ALL WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF THE LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES AND AGENCIES WITH LAWFUL JURISDICTION.

7. PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2023 AND THE CONTRACT DOCUMENTS. ALL CONDUCTORS SHALL BE COPPER UNLESS INDICATED OTHERWISE. ALL FEEDERS, BRANCH CIRCUITS, AND OTHER WIRING SYSTEMS SHALL HAVE A SEPARATE DEDICATED INSULATED GROUND WIRE EXCEPT AS SPECIFICALLY NOTED. ELECTRICALLY CONDUCTIVE MATERIALS ASSOCIATED WITH THE PROJECT SHALL BE CONNECTED TOGETHER IN A MANNER THAT CREATES A PERMANENT, LOW IMPEDANCE PATH FOR GROUND FAULT CURRENT. ALL BRANCH CIRCUITS REQUIRING A NEUTRAL SHALL HAVE SEPARATE DEDICATED FULL SIZE NEUTRAL CONDUCTORS OR AS INDICATED OTHERWISE.

8. PROVIDE ELECTRICAL CONNECTION FOR EVERY FIXTURE, ITEM OR ANY EQUIPMENT REQUIRING ANY ELECTRICAL CONNECTION WHICH IS SHOWN ON ANY CONTRACT DRAWING OR NOTED IN ANY TECHNICAL SPECIFICATION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND CONDITIONS FOR WARRANTY AND GUARANTEE. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION READY FOR CONTINUOUS USE.

9. EXISTING CIRCUITS, AND DEVICES, WHICH ARE PRESENT OR PASS THROUGH AFFECTED AREAS, SHALL BE MAINTAINED OPERATIONAL, AS REQUIRED, AND AS DIRECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING, IF POSSIBLE, THESE CIRCUITS AND DEVICES. IF DISTURBED, UNLESS OTHERWISE APPROVED CIRCUITS AND DEVICES, SHALL BE REPAIRED, OR REPLACED, AND MADE OPERATIONAL AS SOON AS POSSIBLE AND AT THE CONTRACTORS EXPENSE. ALL INTERRUPTIONS TO LIFE SAFETY SYSTEMS INCLUDING MONITORING AND ALARM SYSTEMS SHALL BE KEPT TO A MINIMUM AND SHALL BE RESTORED AS SOON AS POSSIBLE.

10. THE CONTRACTOR IS RESPONSIBLE FOR ANY EQUIPMENT OR WORK THAT MAY BE REQUIRED TO BE TEMPORARILY DISCONNECTED, REMOVED AND/OR RELOCATED AS PART OF THE CONTRACTORS WORK OR THE WORK OF OTHER TRADES. THE EQUIPMENT SHALL BE PROTECTED FROM DAMAGE. THE CONTRACTOR IS RESPONSIBLE TO RECONNECT AND MAKE ELECTRICALLY OPERATIONAL ALL EQUIPMENT THAT IS DISCONNECTED AND/OR RELOCATED AS PART OF THE WORK.

11. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. ALL WIRING SHALL BE RUN IN RACEWAY UNLESS SPECIFIED OTHERWISE.

12. ALL RACEWAYS THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS. CUT AND PATCH BUILDING STRUCTURE AS REQUIRED. PROVIDE UL LISTED FIRE STOP METHODS FOR PENETRATIONS OF FIRE-RATED BUILDING COMPONENTS OR BARRIERS PER CONTRACT SPECIFICATIONS. WATERPROOF ALL EXTERIOR OUTDOOR PENETRATIONS.

13. ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES. COORDINATE ALL WORK ON EXISTING BUILDING COMPONENTS WITH OWNER AND OTHER TRADES.

14. CONTRACTOR SHALL PROVIDE NECESSARY SUPPORT FRAMING, STIFFENERS, BRACING, AND HANGERS TO ENSURE A COMPLETE AND DURABLE SYSTEM. SUPPORTS MAY VARY FROM THOSE SHOWN IN DETAILS AND AS REQUIRED FOR EQUIPMENT TO BE FURNISHED OR FOR EXISTING FIELD CONDITIONS. DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE APPROVED BY THE ENGINEER.

15. 15A & 20A CIRCUITS SHALL BE FED WITH #12AWG CONDUCTORS AND A #12AWG GROUND MINIMUM, UNLESS STATED OTHERWISE. CIRCUITS PROTECTED AT GREATER THAN 20A, UP TO AND INCLUDING 30A, SHALL BE FED WITH #10AWG CONDUCTORS AND A #10AWG GROUND, UNLESS STATED OTHERWISE. CIRCUITS PROTECTED AT GREATER THAN 30A, SHALL BE FED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE AND REGULATIONS, IF NOT INDICATED.

16. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE SHOWING CHANGES MADE DUE TO FIELD CONDITIONS OR ENGINEER APPROVED CHANGES. THE RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED. RECORD AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AT THE END OF THE PROJECT. ELECTRONIC VERSIONS, AS APPROVED BY THE ENGINEER, ARE ACCEPTABLE.

17. REMOVAL NOTES:
    - A. REMOVE ALL EXISTING ELECTRICAL ITEMS SHOWN ON THE REMOVAL DRAWINGS UNLESS NOTED OTHERWISE.
    - B. COORDINATE ALL REMOVALS WITH OWNER AND OTHER TRADES. REFER TO AND COORDINATE WITH ABATEMENT AND ARCHITECTURE DRAWINGS FOR DETAILS.
    - C. ELECTRICAL CIRCUITS AND CONDUITS CONNECTED TO ANY EQUIPMENT THAT IS SHOWN TO BE DEMOLISHED AND/OR REMOVED SHALL BE REMOVED BACK TO THE SOURCE INCLUDING ALL ASSOCIATED RACEWAYS, BOXES AND WIRING UNLESS NOTED OTHERWISE. RACEWAYS CONTAINED AND CONCEALED IN FLOORS, CEILINGS OR WALLS THAT ARE NOT TO BE AFFECTED BY ANY CONTRACT OR BY ANY TRADE WILL BE LEFT/ABANDONED IN PLACE AND CAPPED AT EACH END.
    - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING ALL WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, INCLUDING OSHA 29 CFR 1926.62 (LEAD IN CONSTRUCTION STANDARD), AND FOR TAKING PRECAUTIONS TO ENSURE THAT WORKERS ARE NOT EXPOSED TO LEAD IN EXCESS OF THE PERMISSIBLE EXPOSURE LIMIT.
    - E. DEMOLITION WORK MAY INVOLVE ASBESTOS ABATEMENT. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND EXACT LOCATIONS. ANY REMOVAL WORK OR ANY OTHER WORK SHALL COMMENCE ONLY AFTER HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETE AND NECESSARY AND REQUISITE CLEARANCES HAVE BEEN OBTAINED FROM THE ENVIRONMENTAL/ABATEMENT CONSULTANT/MONITOR.

GENERAL NOTES FOR LIGHTNING PROTECTION

1. LIGHTNING PROTECTION SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 780, UL 96 AND LPI-175 STANDARDS.
2. ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL LOCATIONS. VERIFY CHANGE WITH ENGINEER.
3. NO BEND OF CONDUCTORS SHALL FORM AN ANGLE OF LESS THAN 90 DEG NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8". BARE COPPER MATERIAL SHALL NOT BE INSTALLED ON ALUMINUM SURFACES AND ALUMINUM MATERIAL SHALL NOT BE INSTALLED ON COPPER SURFACES.
4. PROVIDE NEW AIR TERMINALS AND CONDUCTORS AT LOCATIONS INDICATED ON THE DRAWINGS. FINAL AIR TERMIMAL SPACING AND PLACEMENT SHALL COMPLY WITH NFPA 780 AND UL 96 FOR THE ATUAL ROOF CONDITIONS.
5. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED AND SECURED EVERY 3'-0" MAXIMUM.
6. BOND ALL METAL BODIES ASSOCIATED WITH THE WORK AND LOCATED WITHIN THE ZONE OF PROTECTION OF THE LIGHTNING PROTECTION SYSTEM, INCLUDING EQUIPMENT, LADDERS, RAILINGS, ANTENNAS, AND OTHER METAL ITEMS AS REQUIRED BY NFPA 780. RE-BOND EXISTING MECHANICAL OR ELECTRICAL EQUIPMENT AFFECTED BY THIS WORK.
7. ADHESIVE COMPOUNDS AND ATTACHMENT METHODS SHALL BE COMPATIBLE WITH THE ROOFING SYSTEM AND APPROVED FOR THE APPLICATION. REUSE EXISTING ROOF PENETRATION LOCATIONS WHERE INDICATED. COORDINATE ALL ROOF PENETRATIONS AND ATTACHMENT METHODS WITH THE ROOFING CONTRACTOR.

WIRING DEVICE SYMBOLS

- DUPLEX RECEPTACLE
  X: G=GROUND FAULT CIRCUIT INTERRUPTING TYPE
  Y: WP=WEATHER PROOF COVER
- UNFUSED DISCONNECT SWITCH
- OCCUPANCY SENSOR

ANNOTATION SYMBOLS

- EQUIPMENT & DEVICES TO BE REMOVED
- EXISTING EQUIPMENT & DEVICES TO REMAIN
- EQUIPMENT AND DEVICES TO BE PROVIDED
- KEYNOTE
- REMOVAL KEYNOTE

LIGHTING EQUIPMENT SYMBOLS

- LIGHT FIXTURE
- 2'X2' LIGHT FIXTURE
- LIGHT FIXTURE

FIRE ALARM SYSTEM SYMBOLS

- SMOKE DETECTOR

ABBREVIATIONS

#	NUMBER OR WIRE GAGE
(E)	EXISTING ITEM TO REMAIN - SHOWN FOR REFERENCE ONLY
AT	AIR TERMINAL
CB	CIRCUIT BREAKER
FLA	FULL LOAD AMPERES
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND, G	GROUND
KW	KILOWATTS
MCA	MAXIMUM CIRCUIT AMPERE RATING
NTS	NOT TO SCALE
TYP	TYPICAL
WP	WEATHER PROOF WHILE IN USE

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CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL NOTES, ABBREVIATIONS, AND SYMBOLS

SHEET NUMBER
E-001
SHEET 46 OF 58

PLOTTED: 11/2/2026 8:58:58 AM



PHOTO 1

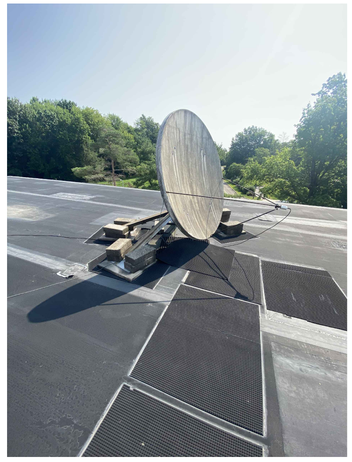


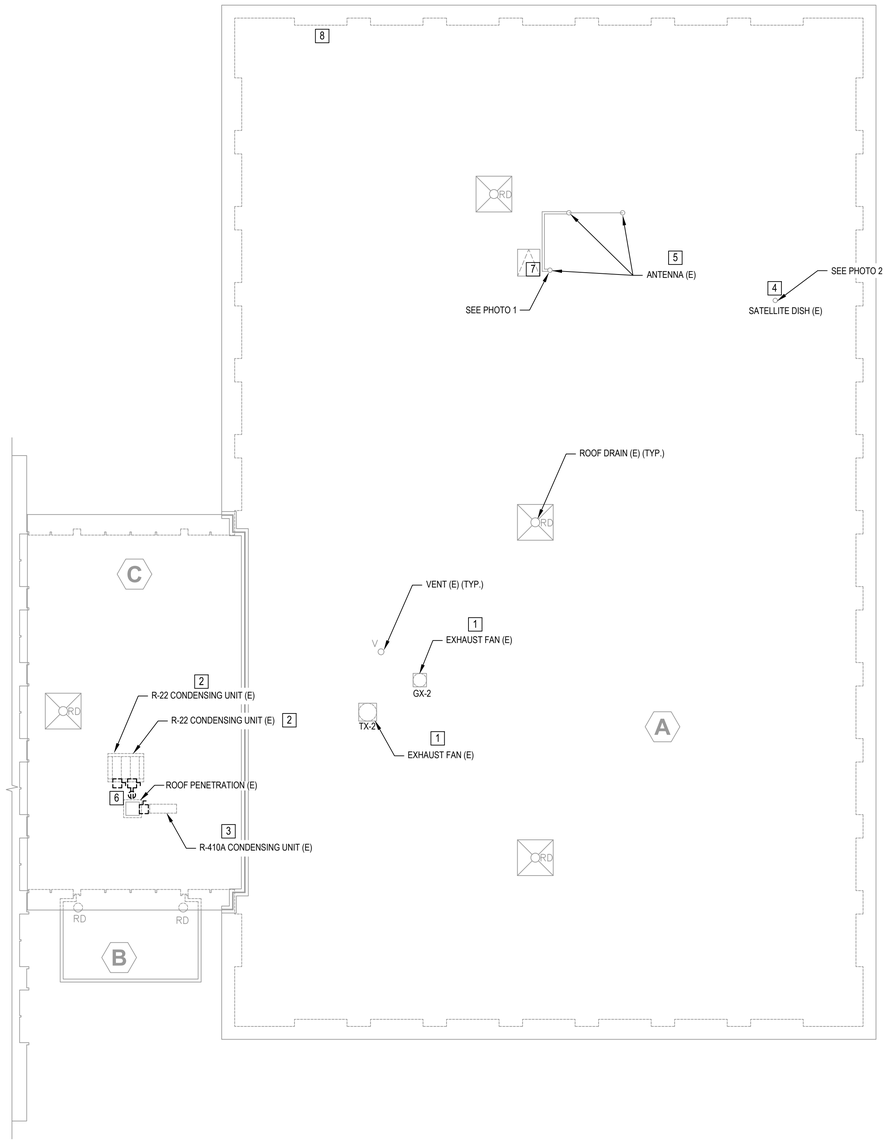
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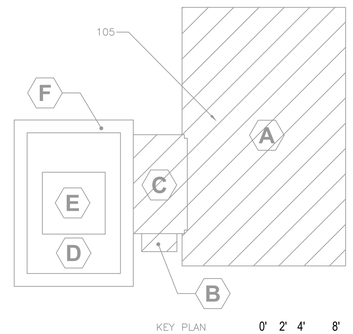
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY THE SOURCE PANELS AND/OR DISCONNECTING MEANS SERVING ALL ELECTRICAL EQUIPMENT AND CIRCUITS ASSOCIATED WITH THE WORK. PRIOR TO START OF REMOVAL OR MODIFICATION WORK, CONTRACTOR SHALL DE-ENERGIZE, LOCK OUT, AND TAG OUT ALL ASSOCIATED BRANCH CIRCUITS AND FEEDERS AT THE IDENTIFIED SOURCE.

REMOVAL NOTES:

1. DISCONNECT AND REMOVE CONDUIT AND CABLING FROM EXISTING EXHAUST FAN BACK TO NEAREST JUNCTION BOX BELOW ROOF.
2. DISCONNECT AND REMOVE EXISTING 30A DISCONNECT SWITCH, CONDUIT AND ASSOCIATED CABLING FROM EXISTING R-22 CONDENSING UNIT BACK TO NEAREST JUNCTION BOX BELOW ROOF. DISCARD 30A DISCONNECT SWITCH.
3. DISCONNECT AND REMOVE EXISTING 60A DISCONNECT SWITCH, CONDUIT AND ASSOCIATED CABLING FROM EXISTING R-410A CONDENSING UNIT BACK TO NEAREST JUNCTION BOX BELOW ROOF. DISCARD 60A DISCONNECT SWITCH.
4. PRIOR TO DISTURBING THE EXISTING SATELLITE DISH, THE CONTRACTOR'S QUALIFIED COMMUNICATIONS CONTRACTOR, GOOSETOWN COMMUNICATIONS OR APPROVED EQUAL, SHALL TRACE THE SYSTEM AND VERIFY ITS STATUS IN COORDINATION WITH THE OWNER. IF CONFIRMED ABANDONED, DISCONNECT AND REMOVE THE SATELLITE DISH, SUPPORT, AND ASSOCIATED CABLING BACK TO SOURCE. IF ACTIVE, DISCONNECT AND TEMPORARILY REMOVE THE SATELLITE DISH AND ASSOCIATED CABLING AS REQUIRED FOR ROOFING WORK. PROTECT EQUIPMENT AND CABLING FOR REINSTALLATION. COORDINATE REQUIRED OUTAGES WITH THE OWNER. REFER TO SECTION 274133.
5. PRIOR TO DISTURBING THE EXISTING ANTENNA, THE CONTRACTOR'S QUALIFIED COMMUNICATIONS CONTRACTOR, GOOSETOWN COMMUNICATIONS OR APPROVED EQUAL, SHALL TRACE THE SYSTEM AND VERIFY ITS STATUS IN COORDINATION WITH THE OWNER. IF CONFIRMED ABANDONED, DISCONNECT AND REMOVE THE ANTENNA, SUPPORT, AND ASSOCIATED CABLING BACK TO SOURCE. IF ACTIVE, DISCONNECT AND TEMPORARILY REMOVE THE ANTENNA AND AND ASSOCIATED CABLING AS REQUIRED FOR ROOFING WORK. PROTECT EQUIPMENT AND CABLING FOR REINSTALLATION. COORDINATE REQUIRED OUTAGES WITH THE OWNER. REFER TO SECTION 274133.
6. DISCONNECT AND REMOVE CONDUIT AND CABLING FROM EXISTING GFCI RECEPTACLE BACK TO NEAREST JUNCTION BOX BELOW ROOF. DISCARD GFCI RECEPTACLE.
7. DISCONNECT AND REMOVE EXISTING ABANDONED UNIVERSITY POLICE ANTENNA AND ASSOCIATED CABLING BACK TO SOURCE. CONFIRM ABANDONED STATUS WITH THE OWNER BEFORE REMOVAL. REFER TO SECTION 274133.
8. DISCONNECT AND REMOVE EXISTING ABANDONED CAT5 AND OTHER COMMUNICATIONS CABLING FROM THE ROOF BACK TO SOURCE OR NEAREST ACCESSIBLE LOCATION APPROVED BY THE OWNER. REFER TO SECTION 274133.





KEY PLAN

0' 2' 4' 8' 16'

SCALE: 1/8" = 1'-0"

1 ADMINISTRATION BUILDING LOWER ROOF REMOVAL PLAN
SCALE: 1/8"=1'-0"

bell & spina ARCHITECTS
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1165-C Pittsford-Victor Rd Pittsford, NY 14534
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STATE OF NEW YORK
WILLIAM E. FLEISCHMAN
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LICENSED PROFESSIONAL ENGINEER
Expires: 10/31/2028

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PROJECT NORTH

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SHEET TITLE
ELECTRICAL ADMINISTRATION BUILDING LOWER ROOF REMOVAL PLAN

SHEET NUMBER
ED-101
SHEET 47 OF 58

PLOTTED: 11/25/2025 2:46 PM



PHOTO 3



PHOTO 4



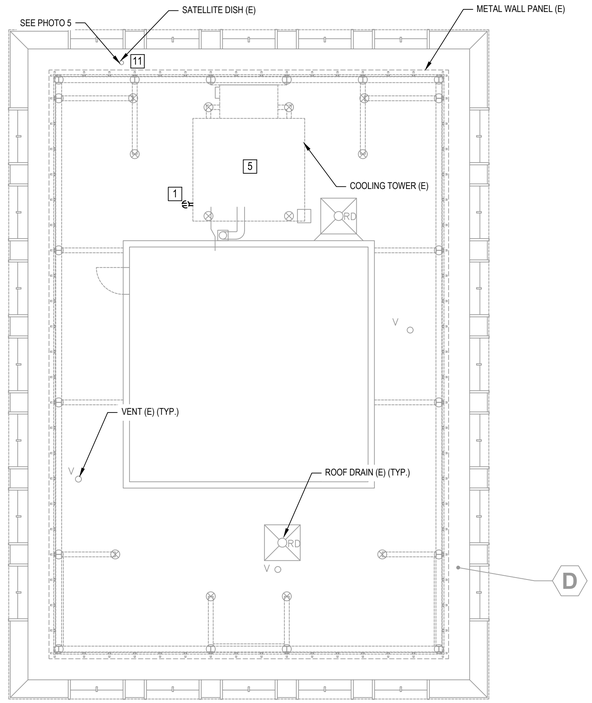
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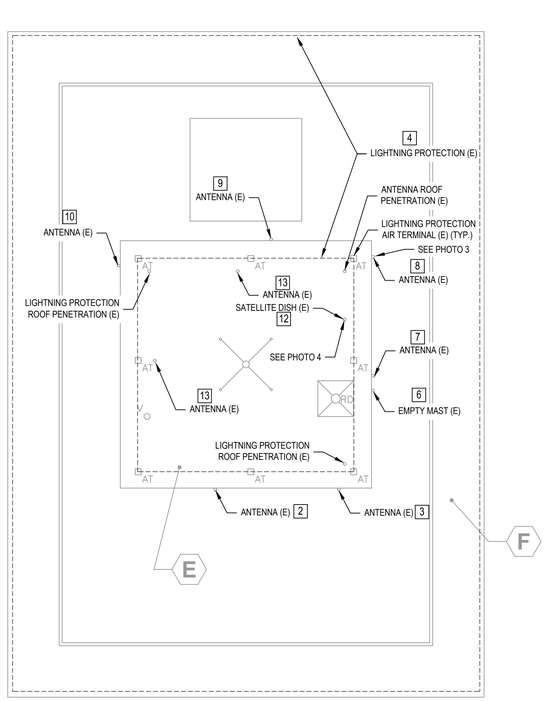
GENERAL NOTES:

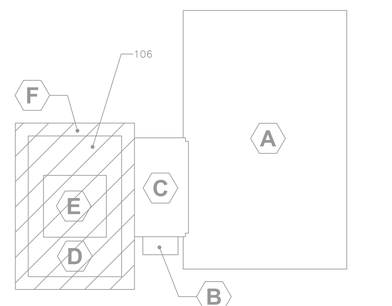
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2. REFER TO SECTION 274133 FOR ADDITIONAL INFORMATION ON ANTENNA AND SATELLITE DISH.

REMOVAL NOTES:

1. DISCONNECT AND REMOVE CONDUIT AND CABLING FROM EXISTING GFCI RECEPTACLE BACK TO NEAREST JUNCTION BOX BELOW ROOF. DISCARD GFCI RECEPTACLE.
2. DISCONNECT CABLING SERVING EXISTING OFFICE OF EMERGENCY MANAGEMENT UHF ANTENNA. EXISTING WALL-MOUNTED ANTENNA AND MAST SHALL REMAIN IN PLACE. PROTECT CABLING FOR RECONNECTION.
3. DISCONNECT CABLING SERVING EXISTING OFFICE OF EMERGENCY MANAGEMENT VHF ANTENNA. EXISTING WALL-MOUNTED ANTENNA AND MAST SHALL REMAIN IN PLACE. PROTECT CABLING FOR RECONNECTION.
4. PRIOR TO REMOVAL, FIELD VERIFY AND DOCUMENT THE EXISTING LIGHTNING PROTECTION SYSTEM COMPONENTS, BONDING POINTS, ROOF PENETRATION LOCATIONS, AND DOWN CONDUCTOR LOCATIONS. REMOVE AND DISCARD EXISTING AIR TERMINALS AND ROOF CONDUCTORS. PROTECT EXISTING DOWN CONDUCTORS AND ROOF PENETRATION LOCATIONS FOR REUSE.
5. DISCONNECT AND TEMPORARILY REMOVE EXISTING ELECTRICAL CONDUIT, CABLING, AND CONNECTIONS SERVING THE EXISTING COOLING TOWER AS REQUIRED FOR STRUCTURAL SHIMMING WORK TO NEAREST JUNCTION BOX BELOW ROOF. EXACT EXTENT OF REMOVAL SHALL BE FIELD COORDINATED WITH STRUCTURAL AND MECHANICAL PRIOR TO SHUTDOWN.
6. REMOVE AND DISCARD EXISTING ABANDONED EMPTY MAST.
7. PRIOR TO DISCONNECTING CABLING SERVING THE EXISTING ACTIVE HAM RADIO ANTENNA, COORDINATE REQUIRED DOWNTIME WITH OWNER. EXISTING WALL-MOUNTED ANTENNA AND MAST SHALL REMAIN IN PLACE. PROTECT CABLING FOR RECONNECTION.
8. PRIOR TO DISCONNECTING CABLING SERVING THE EXISTING MICROWAVE BACKUP ANTENNA FOR PUBLIC SAFETY, COORDINATE REQUIRED DOWNTIME WITH OWNER. EXISTING WALL-MOUNTED ANTENNA AND MAST SHALL REMAIN IN PLACE. PROTECT CABLING FOR RECONNECTION.
9. DISCONNECT, REMOVE, AND DISCARD EXISTING ABANDONED VHF ANTENNA, MAST, AND ASSOCIATED CABLING BACK TO SOURCE. COORDINATE REMOVAL WITH OWNER.
10. EXISTING UHF ANTENNA FUNCTION IS UNKNOWN. CONTRACTOR'S QUALIFIED COMMUNICATIONS CONTRACTOR, GOOSETOWN COMMUNICATIONS OR APPROVED EQUAL SHALL TRACE AND IDENTIFY THE ASSOCIATED CABLING IN COORDINATION WITH THE OWNER. IF ABANDONED, REMOVE ANTENNA AND ASSOCIATED CABLING BACK TO SOURCE. IF ACTIVE, DISCONNECT CABLING ONLY AND PROTECT FOR RECONNECTION. EXISTING WALL-MOUNTED MAST SHALL REMAIN. COORDINATE DOWNTIME BEFORE DISCONNECTION.
11. DISCONNECT, REMOVE AND DISCARD EXISTING ABANDONED SATELLITE DISH WITH CUT CABLING. SEE PHOTO 5 FOR ADDITIONAL INFORMATION.
12. EXISTING ANTENNA WITH SMALL DISH POINTING TOWARD THE LIBRARY SHALL BE TRACED AND IDENTIFIED BY THE CONTRACTOR'S QUALIFIED COMMUNICATIONS CONTRACTOR, GOOSETOWN COMMUNICATIONS OR APPROVED EQUAL, IN COORDINATION WITH THE OWNER. IF ABANDONED, REMOVE EQUIPMENT AND ASSOCIATED CABLING BACK TO SOURCE. IF ACTIVE, DISCONNECT CABLING AND TEMPORARILY RELOCATE THE BALLAST MOUNTED ASSEMBLY AS REQUIRED FOR ROOF WORK. COORDINATE DOWNTIME BEFORE DISCONNECTION. PROTECT EQUIPMENT FOR REINSTALLATION.
13. EXISTING BALLAST-MOUNTED UHF ANTENNA SHALL BE TRACED AND IDENTIFIED BY THE CONTRACTOR'S QUALIFIED COMMUNICATIONS CONTRACTOR, GOOSETOWN COMMUNICATIONS OR APPROVED EQUAL, IN COORDINATION WITH THE OWNER. IF ABANDONED, REMOVE EQUIPMENT AND ASSOCIATED CABLING BACK TO SOURCE. IF ACTIVE, DISCONNECT CABLING AND TEMPORARILY RELOCATE THE ASSEMBLY AS REQUIRED FOR ROOF WORK. COORDINATE DOWNTIME BEFORE DISCONNECTION. PROTECT EQUIPMENT FOR REINSTALLATION.







0' 2' 4' 8' 16'

SCALE: 1/8" = 1'-0"

1 ADMINISTRATION BUILDING TOWER ROOF REMOVAL PLAN
SCALE: 1/8"=1'-0"

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STATE OF NEW YORK · WILLIAM F. SPINA · 085491 · LICENSED PROFESSIONAL ENGINEER

Expires: 10/31/2028

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SHEET TITLE
ELECTRICAL ADMINISTRATION BUILDING TOWER ROOF REMOVAL PLAN

SHEET NUMBER
ED-102

SHEET 48 OF 58

2/11/2026 8:08:03 AM

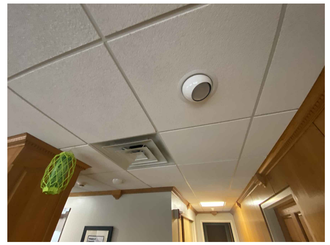


PHOTO 6

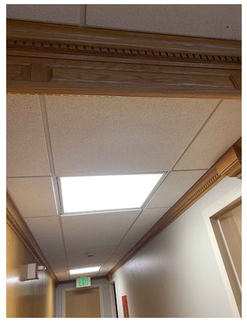


PHOTO 7



PHOTO 8

GENERAL NOTES:

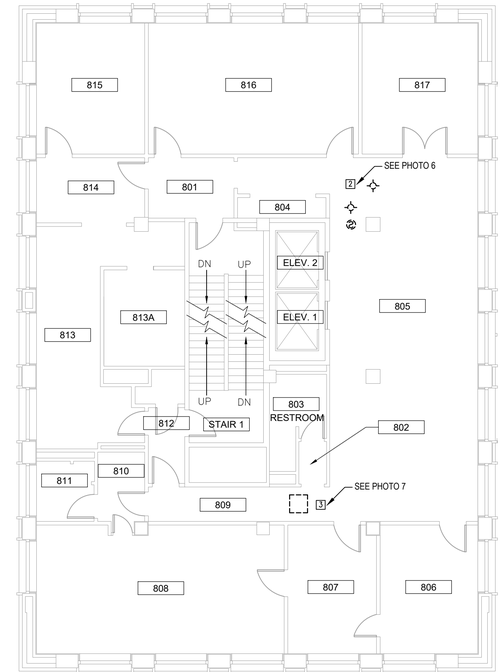
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REMOVAL NOTES:

1. DISCONNECT AND REMOVE CONDUIT AND CABLING FROM EXISTING AC UNITS BACK TO SOURCE.
2. DISCONNECT AND TEMPORARILY REMOVE EXISTING CEILING-MOUNTED LIGHT FIXTURES, SMOKE DETECTOR AND ASSOCIATED CONDUIT AND CABLING BACK TO THE NEAREST EXISTING JUNCTION BOX ABOVE THE CEILING TO ACCOMMODATE THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 8. PROTECT REMOVED DEVICES, CONDUIT, AND CABLING FOR REUSE.
3. DISCONNECT AND TEMPORARILY REMOVE EXISTING CEILING-MOUNTED LIGHT FIXTURE AND ASSOCIATED CONDUIT AND CABLING BACK TO THE NEAREST EXISTING JUNCTION BOX ABOVE THE CEILING TO ACCOMMODATE THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 8. PROTECT REMOVED LIGHT FIXTURE, CONDUIT, AND CABLING FOR REUSE.
4. DISCONNECT AND TEMPORARILY REMOVE EXISTING CEILING-MOUNTED LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSOR AND ASSOCIATED CONDUIT AND CABLING BACK TO THE NEAREST EXISTING JUNCTION BOX ABOVE THE CEILING TO ACCOMMODATE THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 7. PROTECT REMOVED DEVICES, CONDUIT, AND CABLING FOR REUSE.
5. DISCONNECT AND TEMPORARILY REMOVE EXISTING CEILING-MOUNTED LIGHT FIXTURE AND ASSOCIATED CONDUIT AND CABLING BACK TO THE NEAREST EXISTING JUNCTION BOX ABOVE THE CEILING TO ACCOMMODATE THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 7. PROTECT REMOVED LIGHT FIXTURE, CONDUIT, AND CABLING FOR REUSE.



1 ADMINISTRATION BUILDING 2ND FLOOR DEMO PLAN
SCALE: 1/8"=1'-0"



0' 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"

2 ADMINISTRATION BUILDING 8TH FLOOR DEMO PLAN
SCALE: 1/8"=1'-0"

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SHEET TITLE
ELECTRICAL ADMINISTRATION BUILDING 2ND FLOOR REMOVAL PLAN

SHEET NUMBER
ED-103
SHEET 49 OF 58

Syracuse Local #3

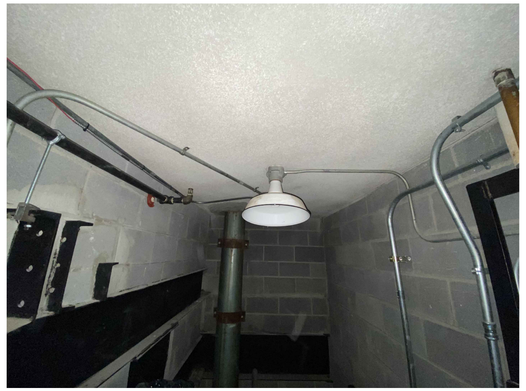


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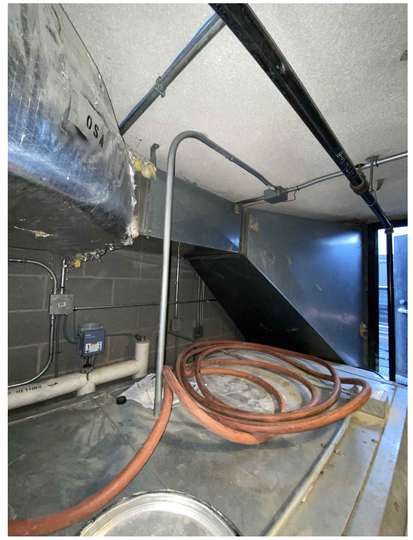


PHOTO 10



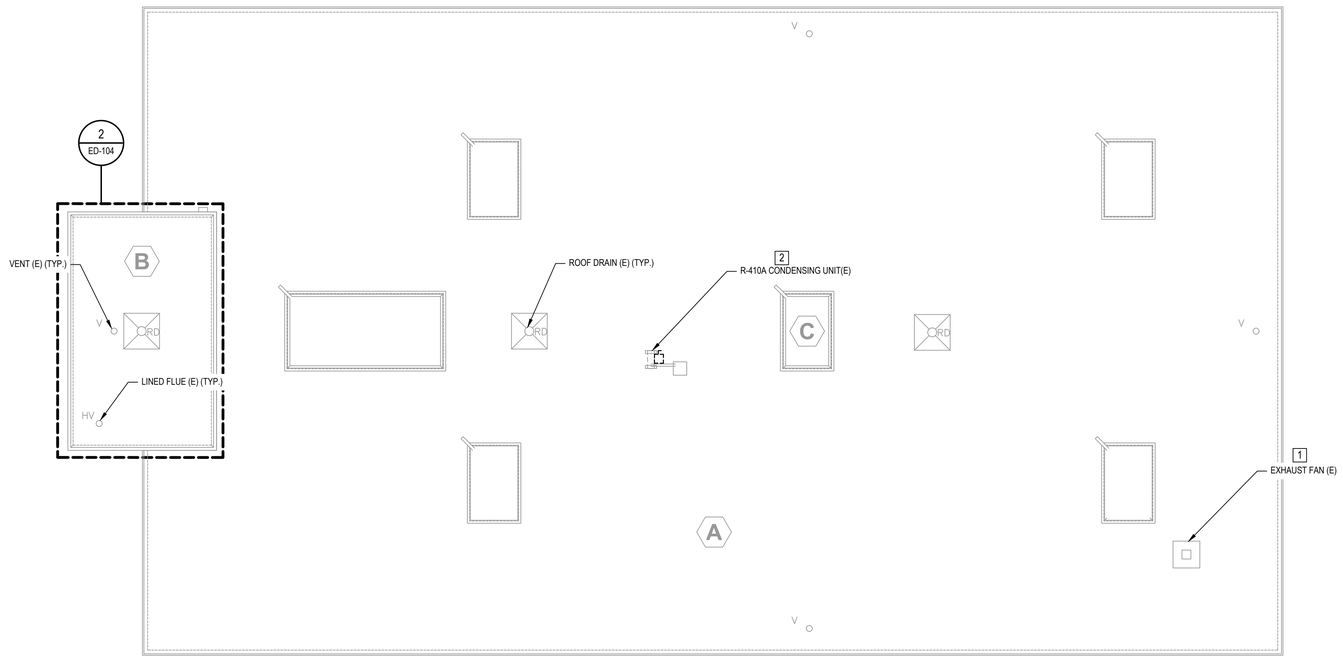
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GENERAL NOTES:

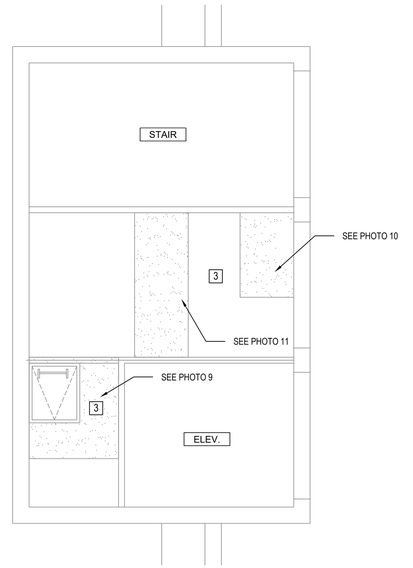
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REMOVAL NOTES:

1. DISCONNECT AND REMOVE CONDUIT AND CABLING FROM EXISTING EXHAUST FAN BACK TO NEAREST JUNCTION BOX BELOW ROOF.
2. DISCONNECT AND REMOVE EXISTING 30A DISCONNECT SWITCH, CONDUIT AND ASSOCIATED CABLING FROM EXISTING R-410A CONDENSING UNIT BACK TO NEAREST JUNCTION BOX BELOW ROOF. DISCARD 30A DISCONNECT SWITCH.
3. WITHIN THE PENTHOUSE, DISCONNECT AND REMOVE PORTIONS OF EXISTING CEILING-MOUNTED CONDUITS AND CABLING, INCLUDING THOSE ASSOCIATED WITH THE AIR-HANDLING UNIT POWER AND CONTROLS, LIGHTING, AND OTHER ELECTRICAL SYSTEMS, BACK TO THE NEAREST EXISTING JUNCTION BOXES, AS REQUIRED TO ACCOMMODATE THE PENTHOUSE CEILING WORK SHOWN ON A-106 DETAIL 2. PROTECT EXISTING EQUIPMENT, JUNCTION BOXES, AND CONDUITS AND CABLING TO REMAIN FOR REUSE.



1 HEALTH SERVICES BUILDING ROOF REMOVAL PLAN
SCALE: 1/8"=1'-0"



2 HEALTH SERVICES BUILDING PENTHOUSE REMOVAL PLAN
SCALE: 1/4"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

0 2' 4' 8'
SCALE: 1/4"=1'-0"

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SHEET TITLE
ELECTRICAL
HEALTH SERVICES
BUILDING
ROOF REMOVAL
PLAN

SHEET NUMBER
ED-104
SHEET 50 OF 58

DRAWING SCALE: FULL

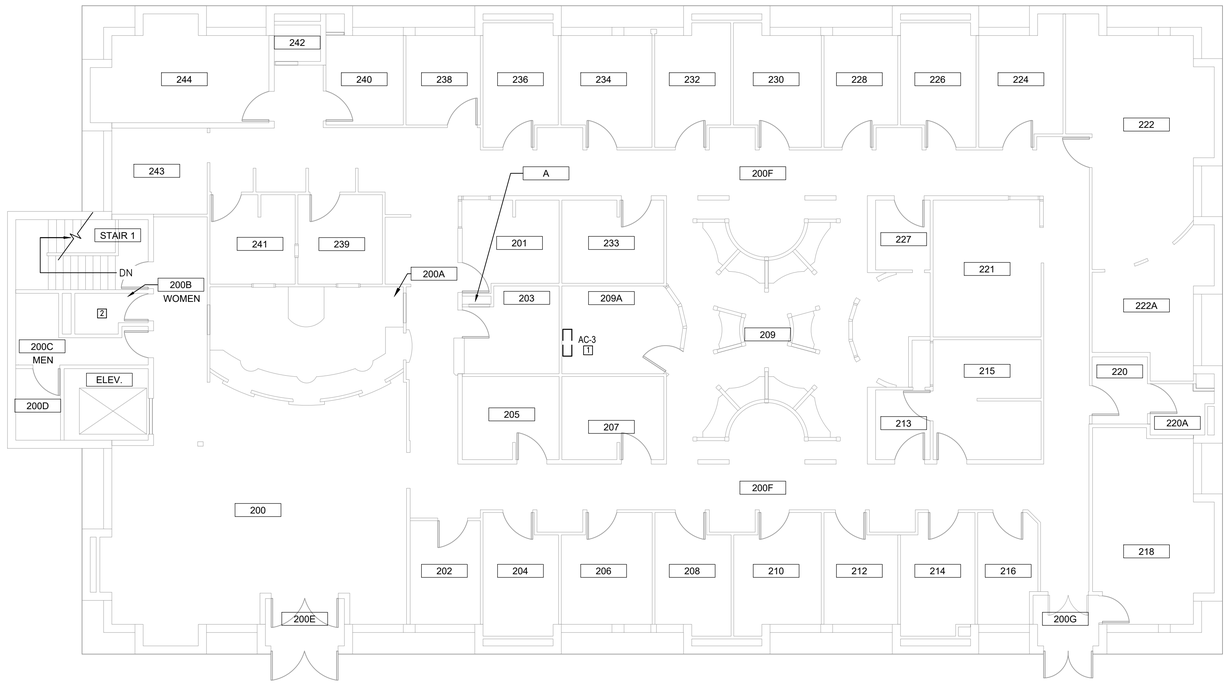
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REMOVAL NOTES: E

1. DISCONNECT AND REMOVE CONDUIT AND CABLING FROM EXISTING AC UNIT BACK TO SOURCE.

2. DISCONNECT AND TEMPORARILY REMOVE EXISTING CEILING-MOUNTED DEVICES, INCLUDING (2) DOWNLIGHTS AND (1) FIRE-ALARM STROBE, IN WOMEN'S ROOM 200B TO ACCOMMODATE THE CEILING WORK SHOWN ON A-106 DETAIL 1. DISCONNECT CONDUIT AND CABLING BACK TO NEAREST JUNCTION BOX. PROTECT EXISTING CEILING-MOUNTED DEVICES, CONDUIT, AND CABLING DURING CONSTRUCTION FOR REUSE.



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SCALE: 1/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
Expires: 10/31/2028

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PROJECT NORTH

CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

DRAWN	CHECKED
JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL
HEALTH SERVICES
BUILDING
MAIN LEVEL
REMOVAL PLAN

SHEET NUMBER
ED-105
SHEET 51 OF 58

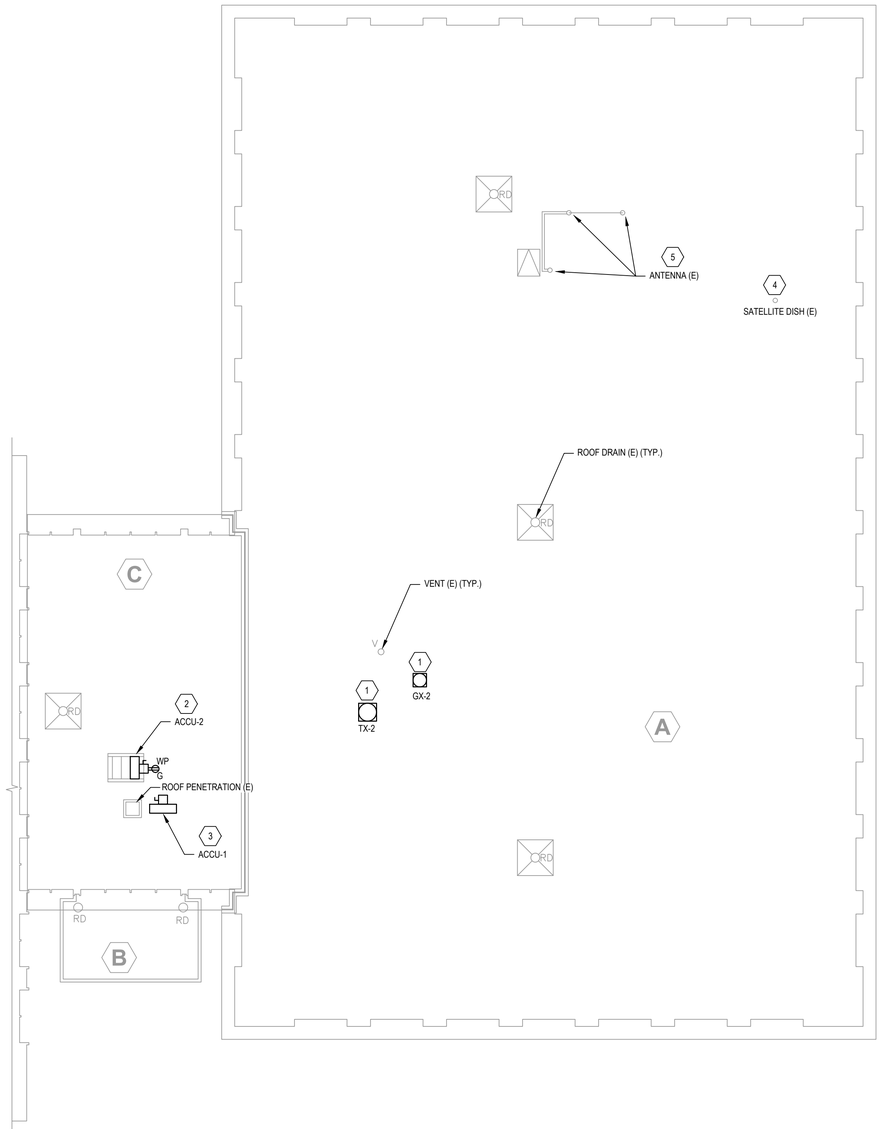
PLOT DATE 11/2/2026 AM

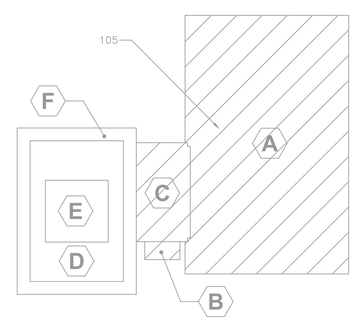
GENERAL NOTES:

1. REFER TO E-500 FOR ELECTRICAL DETAILS.
2. REFER TO E-600 FOR ELECTRICAL SCHEDULES.

KEYED NOTES: ⟨#⟩

1. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM EXISTING JUNCTION BOX IDENTIFIED DURING CONSTRUCTION TO NEW EXHAUST FAN.
2. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM EXISTING JUNCTION BOX IDENTIFIED DURING CONSTRUCTION TO NEW CONDENSING UNIT. PROVIDE NEMA3R, 30A, NON-FUSED DISCONNECT SWITCH AND WEATHERPROOF, GFCI RECEPTACLE ADJACENT TO UNIT. DISCONNECT SWITCH AND GFCI RECEPTACLE SHALL BE MOUNTED ON STRUCTURAL SUPPORT FRAMING PROVIDED AS PART OF THE EQUIPMENT INSTALLATION OR ON THE EQUIPMENT SUPPORT CURB/STAND, AS APPLICABLE. CONTRACTOR SHALL VERIFY THAT EXISTING UPSTREAM CABLING, CONDUIT, AND OVERCURRENT PROTECTION SERVING THIS JUNCTION BOX PRIOR TO RECONNECTION. NOTIFY ARCHITECT AND ENGINEER IF EXISTING UPSTREAM COMPONENTS ARE NOT SUITABLE FOR THE SCHEDULED EQUIPMENT LOAD PRIOR TO PROCEEDING.
3. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM EXISTING JUNCTION BOX IDENTIFIED DURING CONSTRUCTION TO NEW CONDENSING UNIT. PROVIDE NEMA3R, 30A, NON-FUSED DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE MOUNTED ON STRUCTURAL SUPPORT FRAMING PROVIDED AS PART OF THE EQUIPMENT INSTALLATION OR ON THE EQUIPMENT SUPPORT CURB/STAND, AS APPLICABLE. CONTRACTOR SHALL VERIFY THAT EXISTING UPSTREAM CABLING, CONDUIT, AND OVERCURRENT PROTECTION SERVING THIS JUNCTION BOX PRIOR TO RECONNECTION. NOTIFY ARCHITECT AND ENGINEER IF EXISTING UPSTREAM COMPONENTS ARE NOT SUITABLE FOR THE SCHEDULED EQUIPMENT LOAD PRIOR TO PROCEEDING.
4. FOR EXISTING SATELLITE DISH CONFIRMED ACTIVE DURING REMOVAL WORK, REINSTALL AT ITS DOCUMENTED LOCATION AND ORIENTATION. RECONNECT ASSOCIATED CABLING AND EXTEND CABLING AS NECESSARY. REALIGN AND TEST THE SYSTEM TO VERIFY OPERATION EQUAL TO ITS DOCUMENTED PRECONSTRUCTION CONDITION. COORDINATE WITH THE OWNER. REFER TO SECTION 274133.
5. FOR EXISTING ANTENNA CONFIRMED ACTIVE DURING REMOVAL WORK, REINSTALL AT ITS DOCUMENTED LOCATION AND ORIENTATION. RECONNECT ASSOCIATED CABLING AND EXTEND CABLING AS NECESSARY. REALIGN AND TEST THE SYSTEM TO VERIFY OPERATION EQUAL TO ITS DOCUMENTED PRECONSTRUCTION CONDITION. COORDINATE WITH THE OWNER. REFER TO SECTION 274133.





KEY PLAN

0' 2' 4' 8' 16'

SCALE: 1/8" = 1'-0"

1 ADMINISTRATION BUILDING LOWER ROOF PLAN
SCALE: 1/8"=1'-0"

bell & spina ARCHITECTS
215 Wyoming Street 1165-C Pittsford-Victor Rd
Syracuse, NY 13204 Pittsford, NY 14534
Tel (315) 488 - 0377 Tel (585) 200 - 5038
Fax (315) 487 - 5947 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK · WILLIAM F. FLEISCHER · 085491 · LICENSED PROFESSIONAL ENGINEER

Expires: 10/31/2028

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PROJECT NORTH

CONSULTANT

PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT

REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL ADMINISTRATION BUILDING LOWER ROOF PLAN

SHEET NUMBER
E-101

SHEET 52 OF 58

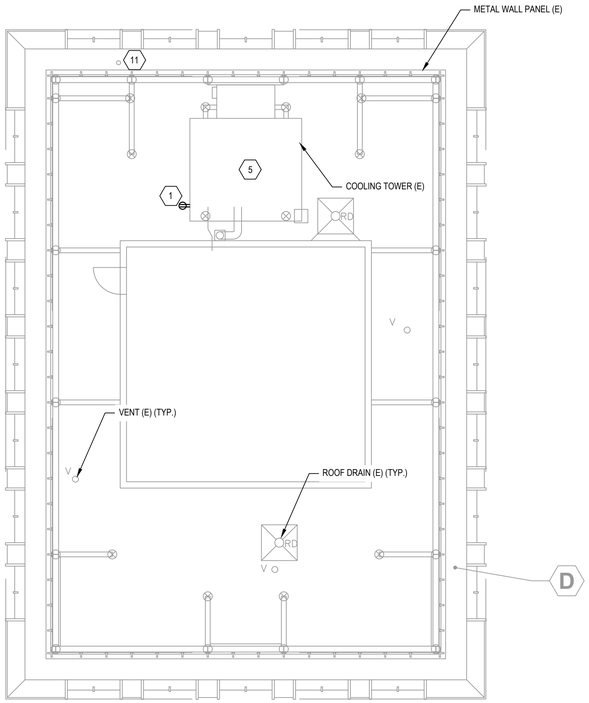
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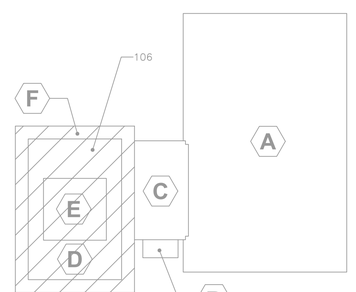
GENERAL NOTES:

1. REFER TO E-500 FOR ELECTRICAL DETAILS.
2. REFER TO SECTION 274133 FOR ADDITIONAL INFORMATION ON ANTENNA AND SATELLITE DISH.

KEYED NOTES: (#)

1. PROVIDE A WEATHERPROOF GFCI RECEPTACLE. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM EXISTING JUNCTION BOX IDENTIFIED DURING CONSTRUCTION TO THE WEATHERPROOF GFCI RECEPTACLE. GFCI RECEPTACLE SHALL BE MOUNTED ON STRUCTURAL SUPPORT FRAMING PROVIDED AS PART OF THE EQUIPMENT INSTALLATION OR ON THE EQUIPMENT SUPPORT CURB/STAND, AS APPLICABLE.
2. RECONNECT CABLING SERVING EXISTING OFFICE OF EMERGENCY MANAGEMENT UHF ANTENNA AFTER COMPLETION OF ROOF WORK. VERIFY PROPER CONNECTION.
3. RECONNECT CABLING SERVING EXISTING OFFICE OF EMERGENCY MANAGEMENT VHF ANTENNA AFTER COMPLETION OF ROOF WORK. VERIFY PROPER CONNECTION.
4. INSTALL NEW LIGHTNING PROTECTION AIR TERMINALS, ROOF CONDUCTORS, BONDING CONNECTIONS, THROUGH ROOF CONNECTORS, AND RELATED COMPONENTS. REUSE EXISTING ROOF PENETRATION AND DOWN CONDUCTOR LOCATIONS. BOND ALL MECHANICAL EQUIPMENT, METAL BODIES, AND RELATED ROOF MOUNTED ITEMS AS REQUIRED. AFTER INSTALLATION IS COMPLETE, TEST THE LIGHTNING PROTECTION SYSTEM FOR CONTINUITY AND COMPLIANCE WITH NFPA 780.
5. RECONNECT EXISTING ELECTRICAL CONDUIT AND CABLING SERVING THE EXISTING COOLING TOWER FOLLOWING STRUCTURAL SHIMMING WORK. EXTEND CONDUIT AND CABLING AS NECESSARY. MAKE FINAL TERMINATIONS TO THE COOLING TOWER. SEQUENCE WORK TO MINIMIZE DOWNTIME.
6. EXISTING EMPTY MAST REMOVED UNDER ED-102, REMOVAL NOTE 6. NO NEW WORK REQUIRED AT THIS LOCATION.
7. RECONNECT CABLING SERVING EXISTING HAM RADIO ANTENNA AFTER COMPLETION OF ROOF WORK. COORDINATE RESTORATION OF SERVICE WITH OWNER AND VERIFY PROPER OPERATION.
8. RECONNECT CABLING SERVING EXISTING MICROWAVE BACKUP ANTENNA FOR PUBLIC SAFETY AFTER COMPLETION OF ROOF WORK. COORDINATE RESTORATION OF SERVICE WITH OWNER AND VERIFY PROPER OPERATION.
9. EXISTING ABANDONED VHF ANTENNA, MAST, AND CABLING REMOVED UNDER ED-102, REMOVAL NOTE 9. NO NEW WORK REQUIRED AT THIS LOCATION.
10. IF THE EXISTING UHF ANTENNA IS DETERMINED TO BE ACTIVE, RECONNECT PROTECTED CABLING AFTER COMPLETION OF ROOF WORK AND VERIFY PROPER OPERATION. EXISTING WALL-MOUNTED ANTENNA AND MAST SHALL REMAIN IN PLACE.
11. EXISTING ABANDONED SATELLITE DISH REMOVED UNDER ED-102, REMOVAL NOTE 11. NO NEW WORK REQUIRED AT THIS LOCATION.
12. IF THE EXISTING ANTENNA WITH SMALL DISH IS DETERMINED TO BE ACTIVE, RETURN THE BALLAST-MOUNTED ASSEMBLY TO ITS DOCUMENTED ORIGINAL LOCATION, RECONNECT CABLING, REALIGN THE ANTENNA AND DISH TO THEIR ORIGINAL ORIENTATION, AND VERIFY PROPER OPERATION.
13. IF THE EXISTING BALLAST-MOUNTED UHF ANTENNA IS DETERMINED TO BE ACTIVE, RETURN THE ASSEMBLY TO ITS DOCUMENTED ORIGINAL LOCATION, RECONNECT CABLING, REALIGN THE ANTENNA TO ITS ORIGINAL ORIENTATION, AND VERIFY PROPER OPERATION.





0' 2' 4' 8' 16'

SCALE: 1/8" = 1'-0"

1 ADMINISTRATION BUILDING TOWER ROOF PLAN
SCALE: 1/8"=1'-0"

bell & spina ARCHITECTS
215 Wyoming Street Syracuse, NY 13204
1165-C Pittsford-Victor Rd Pittsford, NY 14534
Tel (315) 488-0377 Fax (315) 487-5947
Tel (585) 200-5038 Fax (585) 487-9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK
WILLIAM E. FLECKENSTEIN
085491
LICENSED PROFESSIONAL ENGINEER
Expires: 10/31/2028

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PROJECT NORTH

CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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MARK	DATE	DESCRIPTION

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JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL ADMINISTRATION BUILDING TOWER ROOF PLAN

SHEET NUMBER
E-102

SHEET 53 OF 58

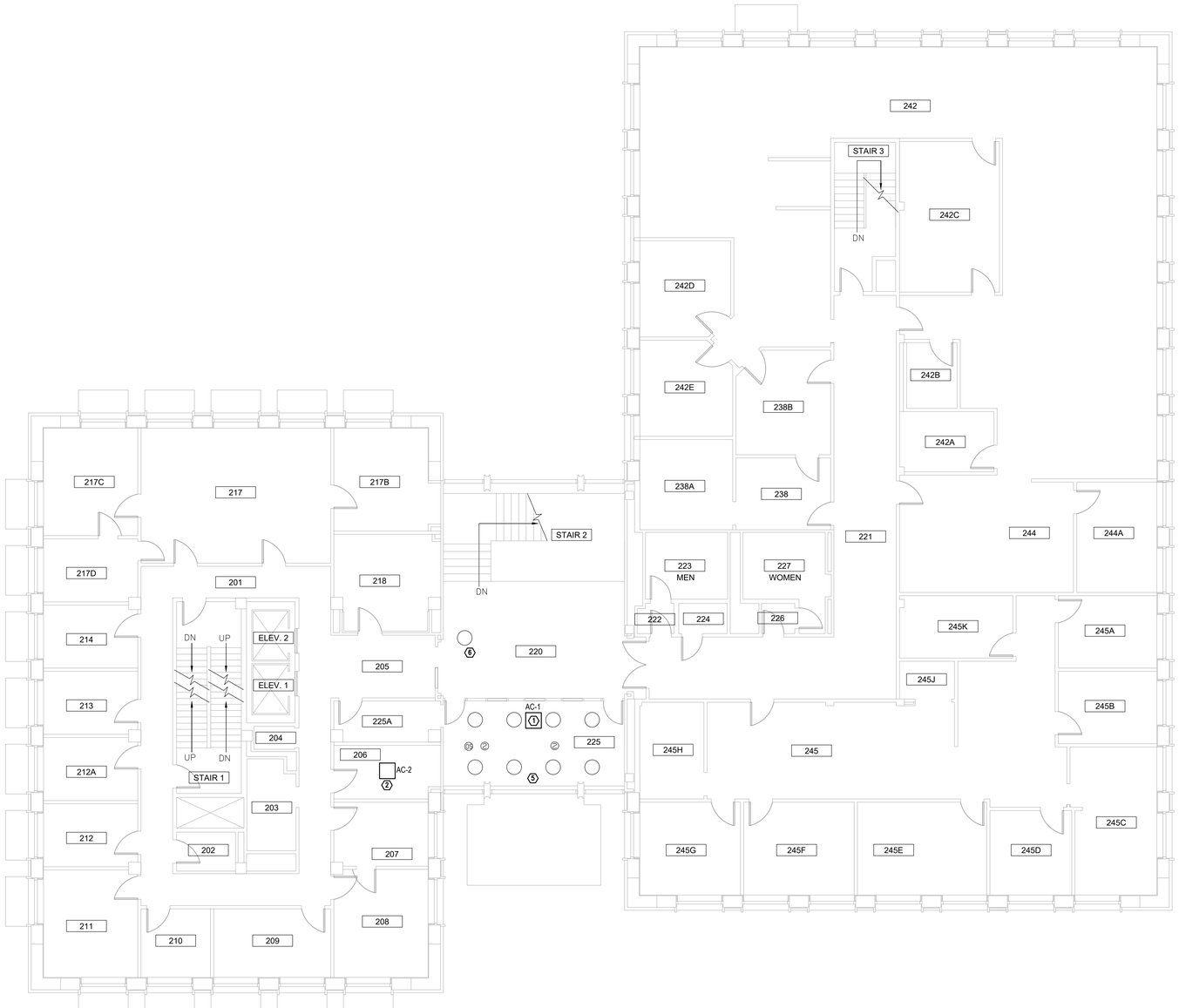
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GENERAL NOTES:

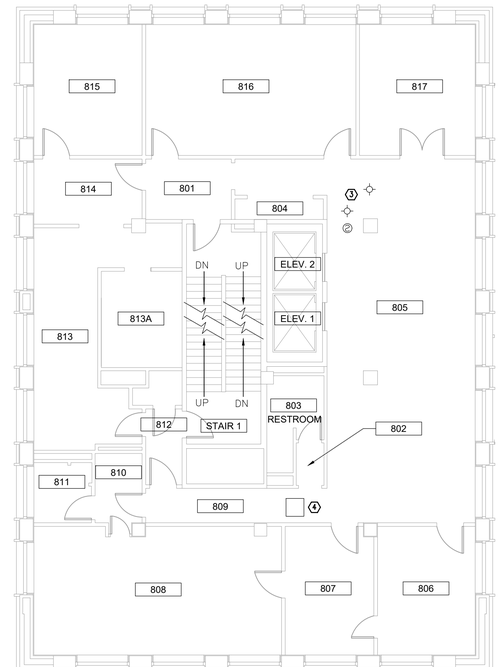
1. REFER TO E-600 FOR ELECTRICAL SCHEDULES.

KEYED NOTES: (#)

1. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM ACCU-1 TO AC-1.
2. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM ACCU-2 TO AC-2.
3. REINSTALL AND RECONNECT EXISTING CEILING-MOUNTED LIGHT FIXTURES, SMOKE DETECTOR, AND ASSOCIATED CONDUIT AND CABLING BACK TO THE NEAREST EXISTING JUNCTION BOX ABOVE THE CEILING UPON COMPLETION OF THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 8. MAINTAIN CONTINUITY OF ALL AFFECTED CIRCUITS. FUNCTIONALLY TEST EACH RECONNECTED SMOKE DETECTOR AND VERIFY PROPER SYSTEM OPERATION.
4. REINSTALL AND RECONNECT EXISTING CEILING-MOUNTED LIGHT FIXTURE AND ASSOCIATED CONDUIT AND CABLING FROM THE EXISTING JUNCTION BOX ABOVE THE CEILING UPON COMPLETION OF THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 8. MAINTAIN CONTINUITY OF ALL AFFECTED CIRCUITS AND VERIFY PROPER OPERATION.
5. REINSTALL AND RECONNECT EXISTING CEILING-MOUNTED LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSOR AND ASSOCIATED CONDUIT AND CABLING BACK TO THE NEAREST EXISTING JUNCTION BOX ABOVE THE CEILING UPON COMPLETION OF THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 7. MAINTAIN CONTINUITY OF ALL AFFECTED CIRCUITS. FUNCTIONALLY TEST EACH RECONNECTED SMOKE DETECTORS AND VERIFY PROPER SYSTEM OPERATION.
6. REINSTALL AND RECONNECT EXISTING CEILING-MOUNTED LIGHT FIXTURE AND ASSOCIATED CONDUIT AND CABLING FROM THE EXISTING JUNCTION BOX ABOVE THE CEILING UPON COMPLETION OF THE ARCHITECTURAL WORK SHOWN ON A-104 DETAIL 8. MAINTAIN CONTINUITY OF ALL AFFECTED CIRCUITS AND VERIFY PROPER OPERATION.



1 ADMINISTRATION BUILDING 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



2 ADMINISTRATION BUILDING 8TH FLOOR PLAN
SCALE: 1/8"=1'-0"

0' 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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STATE OF NEW YORK · WILLIAM E. FREDERICK · 085491 · LICENSED PROFESSIONAL ENGINEER
Expires: 10/31/2028

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PROJECT NORTH

CONSULTANT
PDG POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER 071108-00

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MARK	DATE	DESCRIPTION

DRAWN	CHECKED
JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL ADMINISTRATION BUILDING SECOND FLOOR PLAN

SHEET NUMBER
E-103
SHEET 54 OF 58

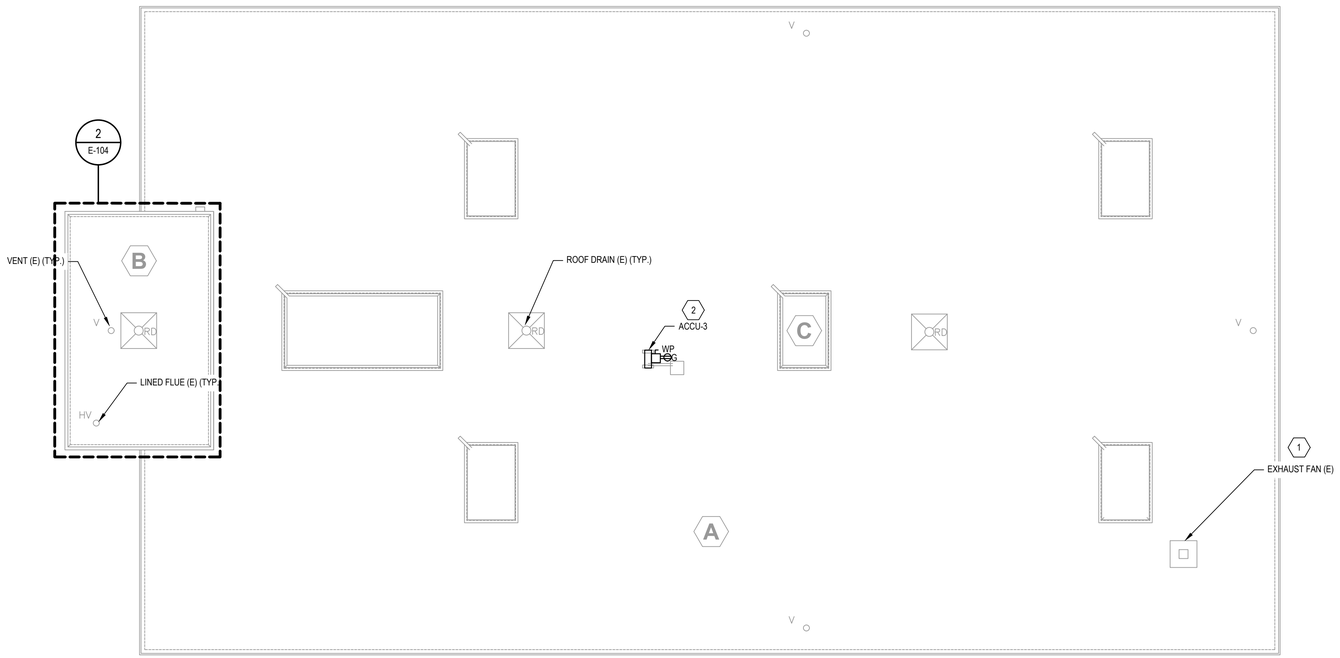
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GENERAL NOTES:

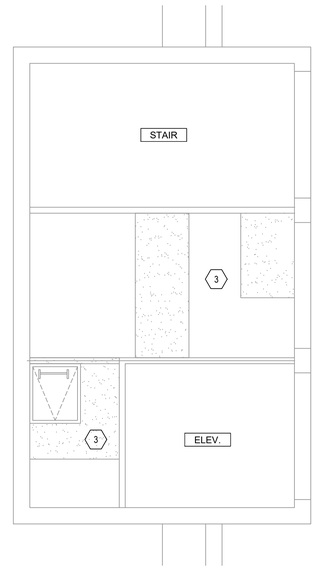
1. REFER TO E-500 FOR ELECTRICAL DETAILS.

KEYED NOTES: (#)

1. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM EXISTING JUNCTION BOX IDENTIFIED DURING CONSTRUCTION TO EXISTING EXHAUST FAN.
2. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM EXISTING JUNCTION BOX IDENTIFIED DURING CONSTRUCTION TO NEW CONDENSING UNIT. PROVIDE NEMA3R, 30A, NON-FUSED DISCONNECT SWITCH AND WEATHERPROOF, GFCI RECEPTACLE ADJACENT TO UNIT. DISCONNECT SWITCH AND GFCI RECEPTACLE SHALL BE MOUNTED ON STRUCTURAL SUPPORT FRAMING PROVIDED AS PART OF THE EQUIPMENT INSTALLATION OR ON THE EQUIPMENT SUPPORT CURB/STAND, AS APPLICABLE. CONTRACTOR SHALL VERIFY THAT EXISTING UPSTREAM CABLING, CONDUIT, AND OVERCURRENT PROTECTION SERVING THIS JUNCTION BOX PRIOR TO RECONNECTION. NOTIFY ARCHITECT AND ENGINEER IF EXISTING UPSTREAM COMPONENTS ARE NOT SUITABLE FOR THE SCHEDULED EQUIPMENT LOAD PRIOR TO PROCEEDING.
3. WITHIN THE PENTHOUSE, REINSTALL EXISTING CEILING-MOUNTED CONDUITS AND CABLING REMOVED DURING CONSTRUCTION, AS REQUIRED TO RECONNECT THE AIR-HANDLING UNIT POWER AND CONTROLS, LIGHTING, AND OTHER AFFECTED ELECTRICAL SYSTEMS. MAINTAIN CONTINUITY OF ALL AFFECTED CIRCUITS AND COORDINATE THE REINSTALLATION WITH THE PENTHOUSE CEILING WORK SHOWN ON A-106 DETAIL 2.



1 HEALTH SERVICES BUILDING ROOF PLAN
SCALE: 1/8"=1'-0"



2 HEALTH SERVICES BUILDING PENTHOUSE PLAN
SCALE: 1/4"=1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

0 2' 4' 8'
SCALE: 1/4"=1'-0"

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PROJECT NORTH

CONSULTANT
PDG
POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - WEST GYM, ADMINISTRATION, HEALTH SERVICES
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL
HEALTH SERVICES
BUILDING
ROOF PLAN

SHEET NUMBER
E-104
SHEET 55 OF 58

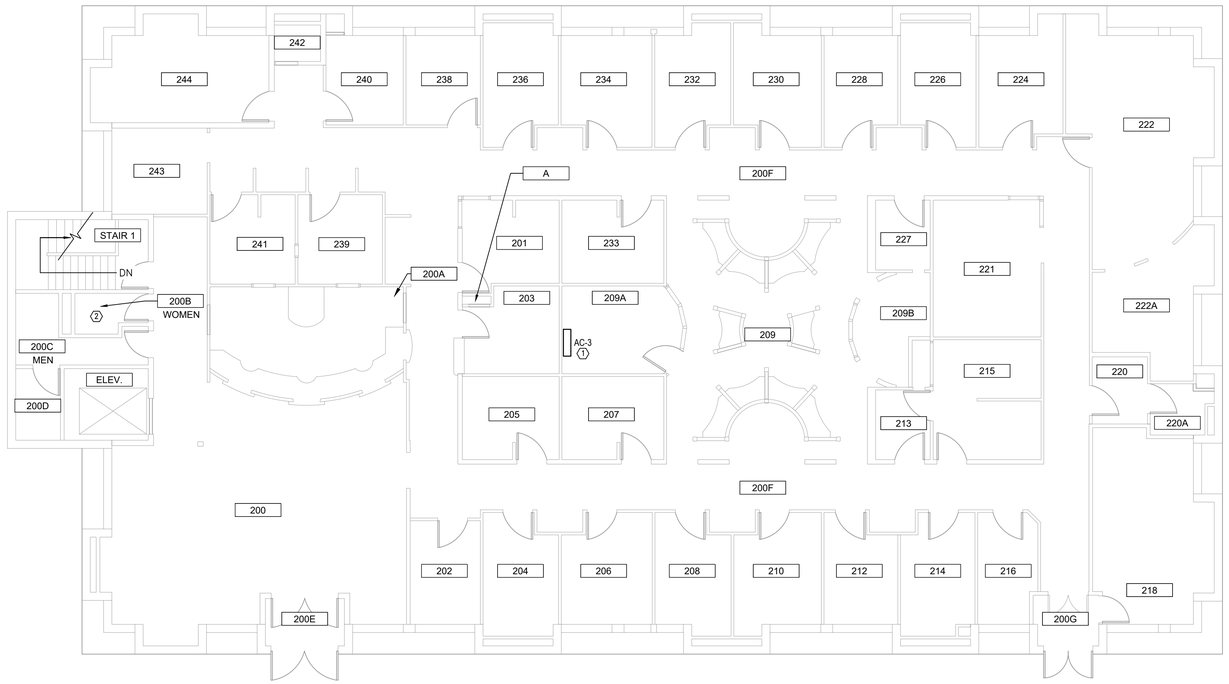
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GENERAL NOTES:

1. REFER TO E-600 FOR ELECTRICAL SCHEDULES.

KEYED NOTES: (#)

1. PROVIDE CONDUIT AND CABLING FOR POWER CONNECTION FROM ACCU-3 TO AC-3.
2. REINSTALL AND RECONNECT (2) EXISTING DOWNLIGHTS AND (1) EXISTING FIRE-ALARM STROBE IN WOMEN'S ROOM 200B USING THE EXISTING JUNCTION BOX, CONDUIT, AND CABLING RETAINED DURING REMOVAL. COORDINATE FINAL DEVICE LOCATIONS WITH THE CEILING WORK SHOWN ON A-106 DETAIL 1.



1 HEALTH SERVICES BUILDING MAIN LEVEL PLAN
SCALE: 1/8"=1'-0"

0' 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"

bell & spina
ARCHITECTS
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SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

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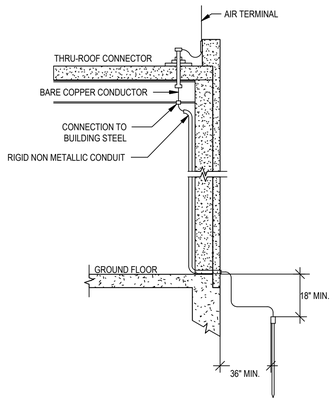
MARK	DATE	DESCRIPTION

DRAWN	CHECKED
JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

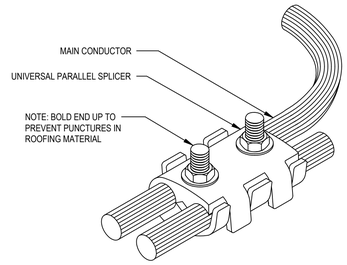
SHEET TITLE
ELECTRICAL
HEALTH SERVICES
BUILDING
MAIN LEVEL PLAN

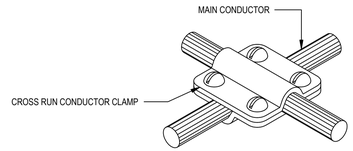
SHEET NUMBER
E-105
SHEET 56 OF 58

Drawings & Specs Property of

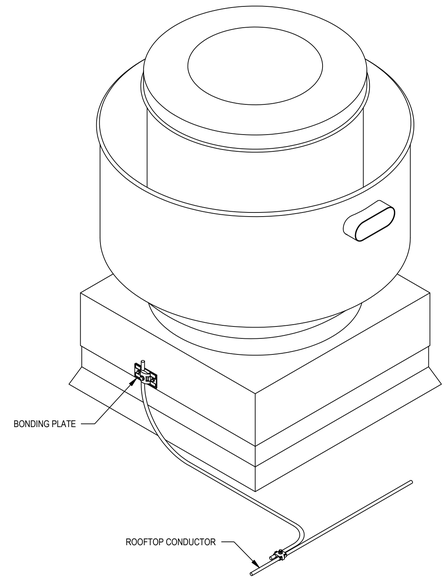


3 LIGHTNING PROTECTION TYPICAL DOWNLEAD ROUTING
SCALE: N.T.S.

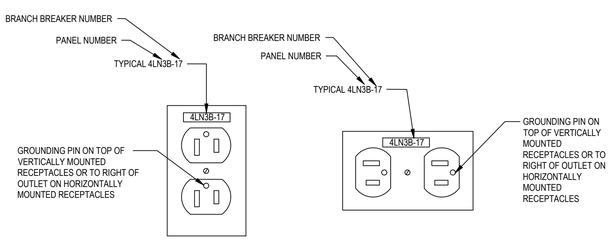




LIGHTNING PROTECTION CONDUCTOR CROSSING CONNECTIONS DETAIL



LIGHTNING PROTECTION FAN/MECHANICAL EQUIPMENT ASSEMBLY BONDING DETAIL (TYPICAL)

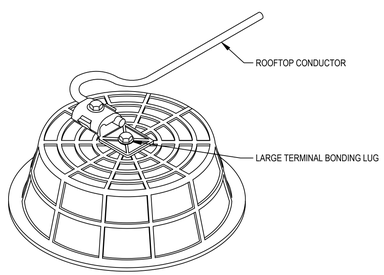


GENERAL NOTES:

A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS.

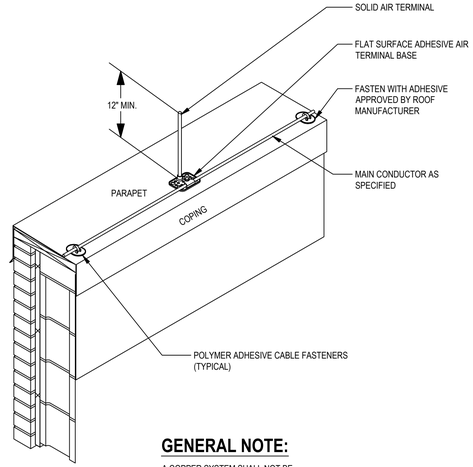
B. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF GFCI WITH WEATHERPROOF WHILE IN USE COVERS.

2 RECEPTACLE INSTALLATION DETAIL (TYPICAL)
SCALE: N.T.S.



PRIMARY BONDING

LIGHTNING PROTECTION DRAIN BONDING DETAIL

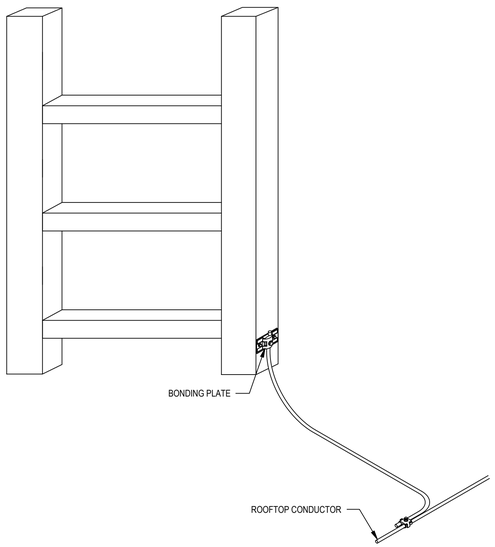


GENERAL NOTE:

A COPPER SYSTEM SHALL NOT BE FASTENED TO AN ALUMINUM OR GALVANIZED COPING OR FLASHING.

LIGHTNING PROTECTION AIR TERMINAL INSTALLATION DETAIL

1 LIGHTNING PROTECTION DETAILS
SCALE: N.T.S.



LIGHTNING PROTECTION STEEL LADDER BONDING DETAIL (TYPICAL)

bell & spina
ARCHITECTS
215 Wyoming Street 1165-C Pittsford-Victor Rd
Syracuse, NY 13204 Pittsford, NY 14534
Tel (315) 488 - 0377 Tel (585) 200 - 5038
Fax (315) 487 - 5947 Fax (585) 487 - 9532
info@bellandspina.com
www.bellandspina.com

STATE OF NEW YORK
WILLIAM E. FLECK
085491
LICENSED PROFESSIONAL ENGINEER
Expires: 10/31/2028

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT NORTH

CONSULTANT
PDG
POPLI DESIGN GROUP
CERTIFICATE OF AUTHORIZATION: 021331

PROJECT
REPLACE ROOFS - ADMINISTRATION AND HEALTH SERVICES BUILDINGS
BINGHAMTON UNIVERSITY
4400 VESTAL PKWY E
BINGHAMTON, NY 13902
SUCF PROJECT NO. 071108-00

PROJECT NUMBER
071108-00

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

DRAWN	CHECKED
JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-500
SHEET 57 OF 58

Drawings valid for 90 days

ELECTRICAL EQUIPMENT SCHEDULE

TAG	EQUIPMENT DESCRIPTION	LOCATION	VOLTS	PHASE	HP.	KW	FLA/(MCA)	SOURCE	CB(AT)	CONDUIT & CONDUCTORS	CONTROLLER/LOCAL DEVICE						
											TYPE	ENCL.	FRAME (AF)	OCP (AT)	POLES	CONDUIT & CONDUCTORS.	NOTES.
AC-1/ ACCU-1	SPLIT SYSTEM	ADMINISTRATION BUILDING	208	1	-	-	(22)	-	25	(2)#10 & (1)#10G IN 3/4"C	DISCONNECT	NEMA 3R	30	-	2	(2)#10 & (1)#10G IN 3/4"C	1,3,6
AC-2/ ACCU-2	SPLIT SYSTEM	ADMINISTRATION BUILDING	208	1	-	-	(16)	-	20	(2)#12 & (1)#12G IN 3/4"C	DISCONNECT	NEMA 3R	30	-	2	(2)#12 & (1)#12G IN 3/4"C	1,4,6
AC-3/ ACCU-3	SPLIT SYSTEM	HEALTH SERVICES BUILDING	208	1	-	-	(16)	-	20	(2)#12 & (1)#12G IN 3/4"C	DISCONNECT	NEMA 3R	30	-	2	(2)#12 & (1)#12G IN 3/4"C	1,5,6
GX-2	EXHAUST FAN	ADMINISTRATION BUILDING	120	1	-	-	(4.8)	-	15	(2)#12 & (1)#12G IN 3/4"C	DISCONNECT	-	-	-	-	-	2,6
TX-2	EXHAUST FAN	ADMINISTRATION BUILDING	120	1	-	-	(8.2)	-	15	(2)#12 & (1)#12G IN 3/4"C	DISCONNECT	-	-	-	-	-	2,6

NOTES:

1. PROVIDE DISCONNECT SWITCH.
2. DISCONNECT PROVIDED ON EQUIPMENT, SINGLE POINT POWER CONNECTION. REFER TO DRAWING M-600.
3. THE CONTRACTOR SHALL PROVIDE CONDUIT AND CABLING FROM OUTDOOR UNIT ACCU-1 TO INDOOR UNIT AC-1 FOR POWER CONNECTION. CONDUIT AND CABLING SHALL BE ROUTED WITH THE MECHANICAL PIPING.
4. THE CONTRACTOR SHALL PROVIDE CONDUIT AND CABLING FROM OUTDOOR UNIT ACCU-2 TO INDOOR UNIT AC-2 FOR POWER CONNECTION. CONDUIT AND CABLING SHALL BE ROUTED WITH THE MECHANICAL PIPING.
5. THE CONTRACTOR SHALL PROVIDE CONDUIT AND CABLING FROM OUTDOOR UNIT ACCU-3 TO INDOOR UNIT AC-3 FOR POWER CONNECTION. CONDUIT AND CABLING SHALL BE ROUTED WITH THE MECHANICAL PIPING.
6. CONDUIT AND CONDUCTOR SIZES INDICATED ARE BASED ON ASSUMED EXISTING CONDITIONS AND SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION.

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JIK	WEF
DATE	SCALE
11/02/2026	AS NOTED

SHEET TITLE
ELECTRICAL SCHEDULES

SHEET NUMBER
E-600
SHEET 58 OF 58

Drawing Scales Set