AXIOMCONSULTANTS
A RUEKERT & MIELKE COMPANY

OPN ARCHITECTS

511 CAPITAL STREET BUILDING STABILIZATION PROJECT
PROJECT ADDRESS: 511 S CAPITAL ST. IOWA CITY, IA 52240
PERMITTING DOCUMENTS - 10/10/2025
AXIOM PROJECT #: 10271-10004

PROJECT DIRECTORY

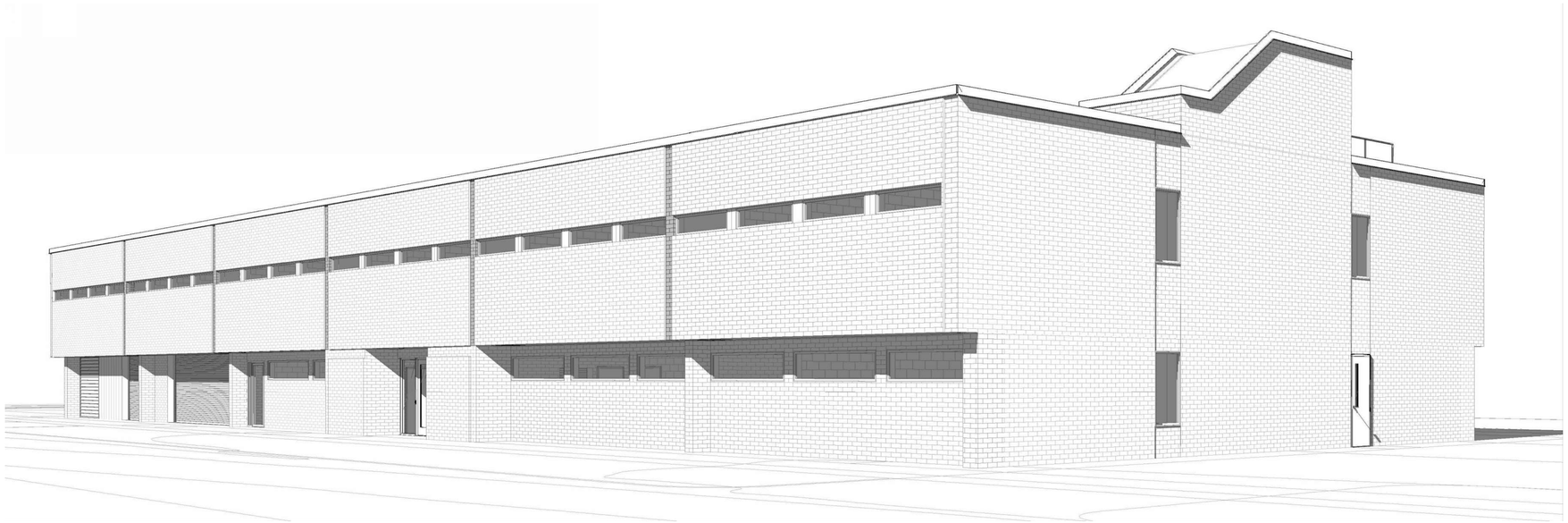
ENGINEER/OWNER'S REP.
ROB DECKER
AXIOM CONSULTANTS, LLC
300 S CLINTON ST. #200
IOWA CITY, IOWA 52240-3833
PHONE: 319-519-6220
RDECKER@AXIOM-CON.COM

ARCHITECT
ZACH WRITER
OPN ARCHITECTS
24 1/2 S. CLINTON ST., SUITE 1
IOWA CITY, IOWA 52240
PHONE: 319-248-5686
ZWRITER@OPNARCHITECTS.COM

APPLICABLE CODES

1. INTERNATIONAL BUILDING CODE (IBC) 2015
2. INTERNATIONAL MECHANICAL CODE (IMC) 2021
3. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2012
4. INTERNATIONAL FIRE CODE (IFC) 2015
5. UNIFORM PLUMBING CODE (UPC) 2021
6. NATIONAL FIRE PROTECTION ASSOCIATION
   - NFPA 54
   - NFPA 70 (NEC)
7. ANY IOWA STATE & LOCAL COUNTY CODES AND AMENDMENTS TO INTERNATION AND UNIFORM CODES

SHEET INDEX



PROJECT RENDERING

LICENSED PROFESSIONAL ENGINEER — JUSTINE SIGLIN 25333 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

JUSTINE SIGLIN, P.E. — 10/30/2025
LICENSE NUMBER 25333 — DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026

PAGES OR SHEETS COVERED BY THIS SEAL: STRUCTURAL 'S' SHEETS

LICENSED PROFESSIONAL ENGINEER — JOE C. LOMHEIM 24116 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

JOE C. LOMHEIM, P.E. — 10/30/2025
LICENSE NUMBER 24116 — DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026

PAGES OR SHEETS COVERED BY THIS SEAL: DEMO 'MD' SHEETS AND MECHANICAL 'M' SHEETS

LICENSED PROFESSIONAL ENGINEER — KEVIN D. MCLAUGHLIN 29142 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

KEVIN D. MCLAUGHLIN, P.E. — 10/30/2025
LICENSE NUMBER 29142. — DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025

PAGES OR SHEETS COVERED BY THIS SEAL: ELECTRICAL 'E' SHEETS AND TECHNOLOGY 'T' SHEETS

LICENSED PROFESSIONAL ARCHITECT — David J. Sorg 03658 — IOWA

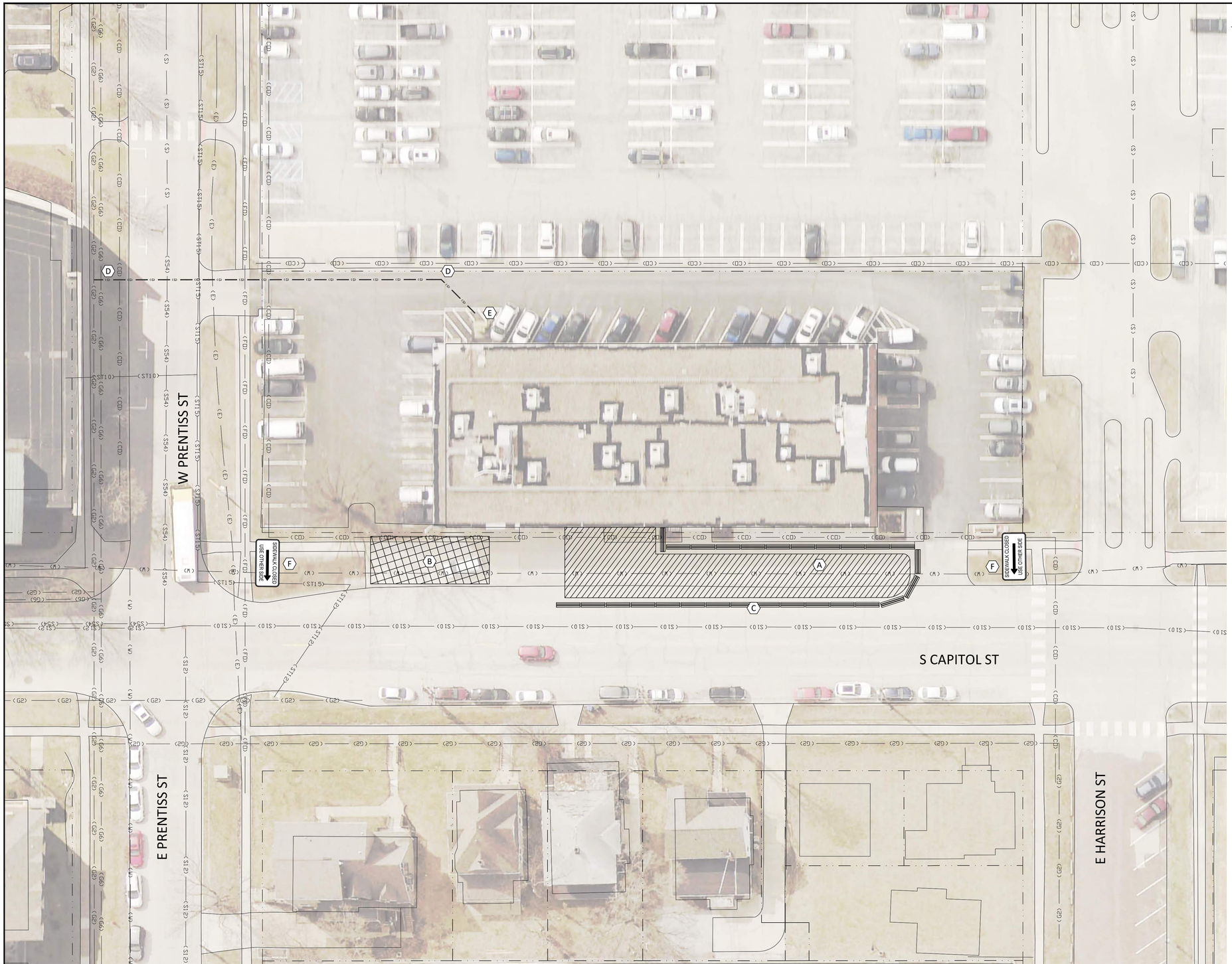
I HEREBY CERTIFY THAT THIS PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

DAVID J. SORG — 10/30/2025
LICENSE NUMBER 03658 — DATE

MY LICENSE RENEWAL DATE IS JUNE 30, 2027

PAGES OR SHEETS COVERED BY THIS SEAL: ARCHITECTURAL 'A' SHEETS

IOWA 811 ONE CALL SM



KEYNOTES

- (A) R LAYDOWN/WORK AREA
- (B) PROJECT TRAILER AND LAYDOWN
- (C) JERSEY BARRICADE
- (D) EXISTING GAS SERVICE TO BE ABANDONED AND REMOVED PER CITY OF IOWA CITY AND FRANCHISE MEANS AND METHODS. NEW GAS SERVICE TO BE INSTALLED BY MID-AMERICAN FROM MAIN TO METER. GAS SERVICE TO BE BORED, CONTRACTOR TO PROTECT EXISTING PAVEMENT, REMOVE AND REPLACE DAMAGE PAVEMENT DUE TO GAS SERVICE INSTALLATION EFFORTS.
- (E) MECHANICAL CONTRACTOR TO INSTALL PROPOSED GAS SERVICE FROM METER AS INSTALLED BY MID-AMERICAN.
- (F) TRAFFIC CONTROL (PER MUTCD)

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

0 10 20

511 CAPITOL ST BUILDING STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA 52240

ISSUED FOR
PERMIT DOCUMENTS
DATE 10/10/2025

DESCRIPTION	DATE

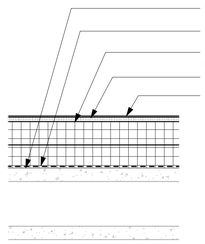
DRAWN BY
CHECKED BY
PROJECT NO. 10271-10004

SHEET NAME
SITE AND STAGING PLAN

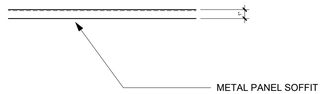
C100

NOT FOR CONSTRUCTION

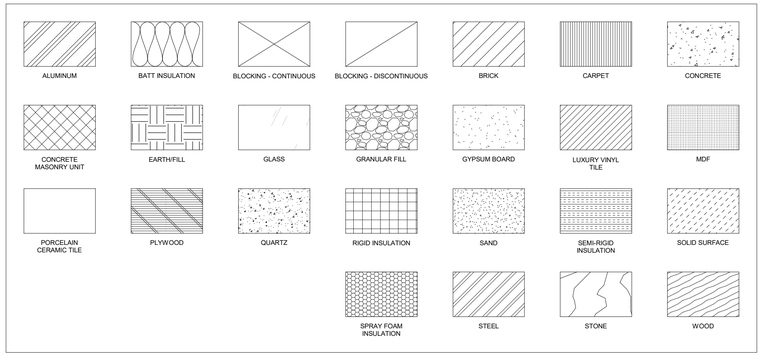
ROOF AND SOFFIT ASSEMBLIES



R1 ROOF ASSEMBLY

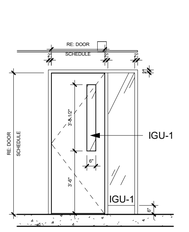


S1 SOFFIT

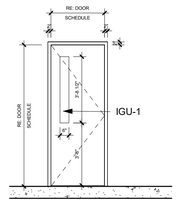


GENERAL INFORMATION - STANDARD ARCHITECTURAL MATERIAL DEFINITIONS

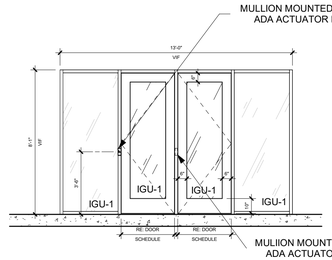
OPENING SCHEDULE



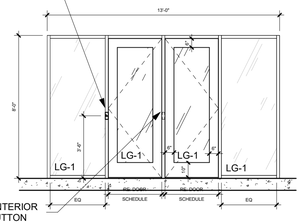
OPENING 1
HOLLOW METAL DOOR AND FRAME



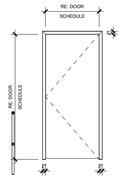
OPENING 2
HOLLOW METAL DOOR AND FRAME



OPENING 3
STOREFRONT WINDOW AND ENTRANCE



OPENING 4
STOREFRONT WINDOW AND ENTRANCE



OPENING 5
HOLLOW METAL DOOR AND FRAME

DOOR SCHEDULE

DOOR NUMBER	OPENING TYPE	PANEL				FRAME		REMARKS
		WIDTH	HEIGHT	PANEL MATERIAL	PANEL FINISH	MATERIAL	FINISH	
101	1	3'-0"	7'-11"	HM	PT	HM	PT	CR
125	2	3'-0"	7'-11"	HM	PT	HM	PT	CR
144-1	3	3'-0"	7'-11"	ALUM	ANOD	ALUM	ANOD	
144-2	3	3'-0"	7'-11"	ALUM	ANOD	ALUM	ANOD	AO
144-3	4	3'-0"	7'-10"	ALUM	ANOD	ALUM	ANOD	
144-4	4	3'-0"	7'-10"	ALUM	ANOD	ALUM	ANOD	AO
STB-1	5	3'-0"	7'-0"	HM	PT	HM	PT	

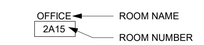
GENERAL NOTES

1. SEE FRAME PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONAL SIZES WITH MATERIALS OF FRAMES.
2. PREPARE DOOR AND FRAME FOR PAINT - BONDO DENTS AND SAND SCRATCHES SMOOTH.
3. PAINT HOLLOW METAL DOORS AND FRAMES.
4. ALL ALUMINUM FRAMES AND DOORS TO BE DARK BRONZE ANODIZED UNLESS OTHERWISE NOTED.

REMARKS
AO AUTO OPERATOR
CR CARD READER

GLAZING
IGU-1 CLEAR LAMINATED INSULATED GLAZING UNIT
LG-1 LAMINATED GLAZING UNIT

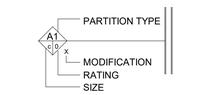
STANDARD SYMBOLS



ROOM IDENTIFICATION

DOOR IDENTIFICATION

CEILING IDENTIFICATION

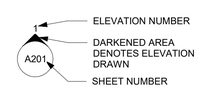


WALL IDENTIFICATION

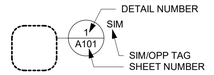
ROOF/FLOOR IDENTIFICATION

WINDOW IDENTIFICATION

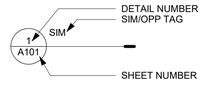
MATCH LINE



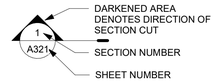
ELEVATION REFERENCE



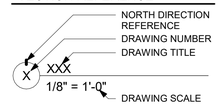
PLAN DETAIL REFERENCE



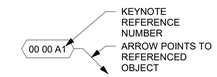
DETAIL REFERENCE



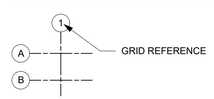
SECTION REFERENCE



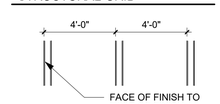
VIEW TITLE



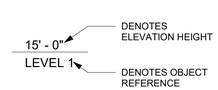
KEYNOTE REFERENCE



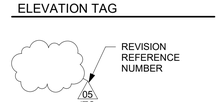
STRUCTURAL GRID



DIMENSIONS



ELEVATION TAG



DRAWING REVISION

NOT FOR CONSTRUCTION

AXIOM CONSULTANTS
WWW.AXIOM-CON.COM | (319) 519-6220

OPN ARCHITECTS

511 S CAPITOL ST.
IOWA CITY, IA 52240

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

ISSUED FOR
PERMITTIING DOCUMENTS

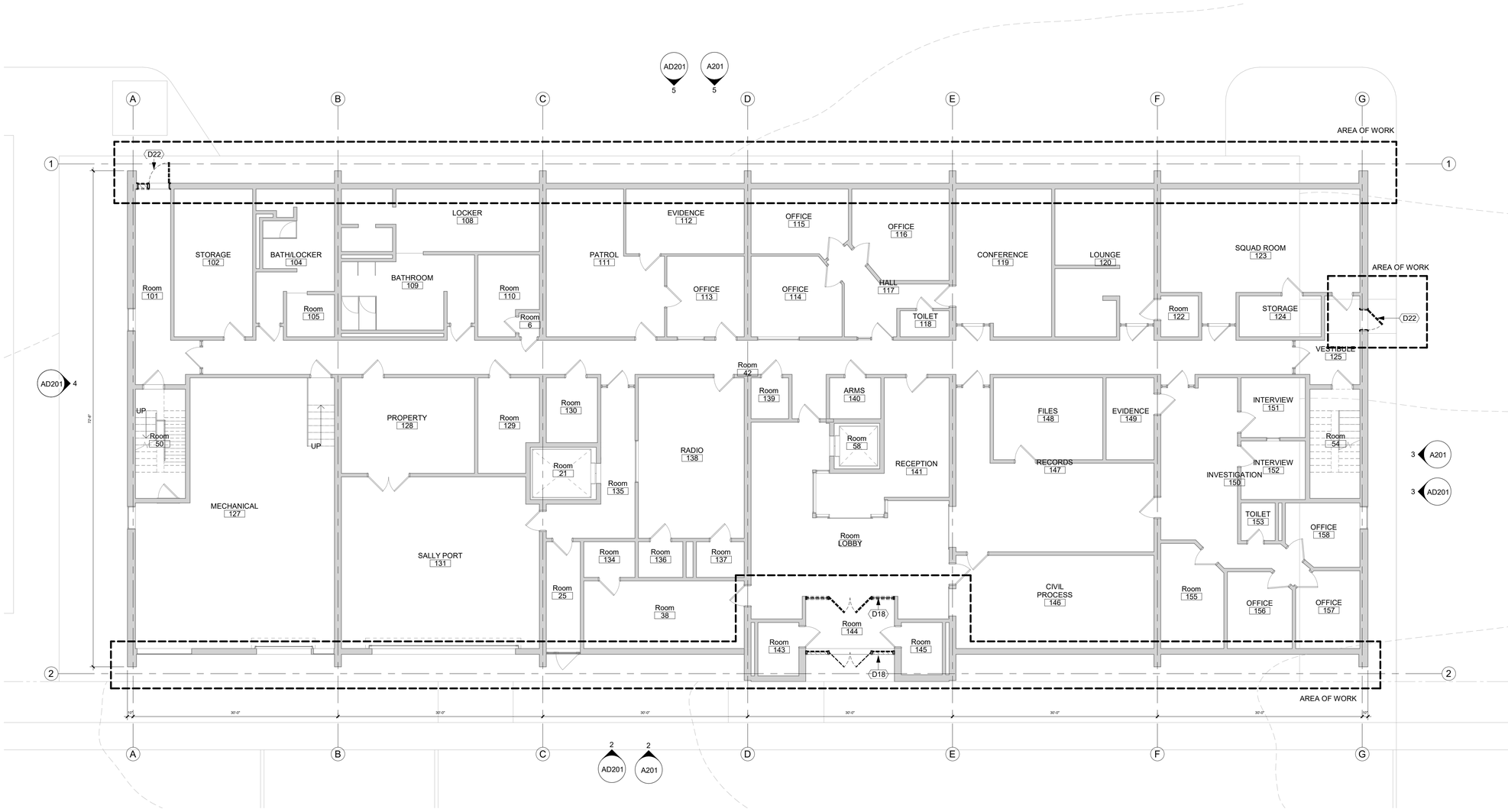
DATE	2025-10-10

DESCRIPTION	DATE

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	

SHEET NAME
GENERAL DRAWING INFORMATION

A000



1 LEVEL 1 FLOOR PLAN Copy 1
1/8" = 1'-0"

GENERAL NOTES

1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED.
7. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
8. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.

DEMOLITION LEGEND

DENOTES AREA OF COMPLETE REMOVAL OF AN EXISTING BUILDING ELEMENT

KEYNOTE LEGEND

D18 REMOVE HOLLOW METAL ENTRANCE SYSTEM COMPLETE

D22 REMOVE DOOR AND FRAME, PREP OPENING FOR INSTALLATION OF NEW DOOR AND FRAME

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OPN ARCHITECTS

511 CAPITOL STREET BUILDING
STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA 52240

ISSUED FOR
PERMITTIING DOCUMENTS

DATE	2025-10-10

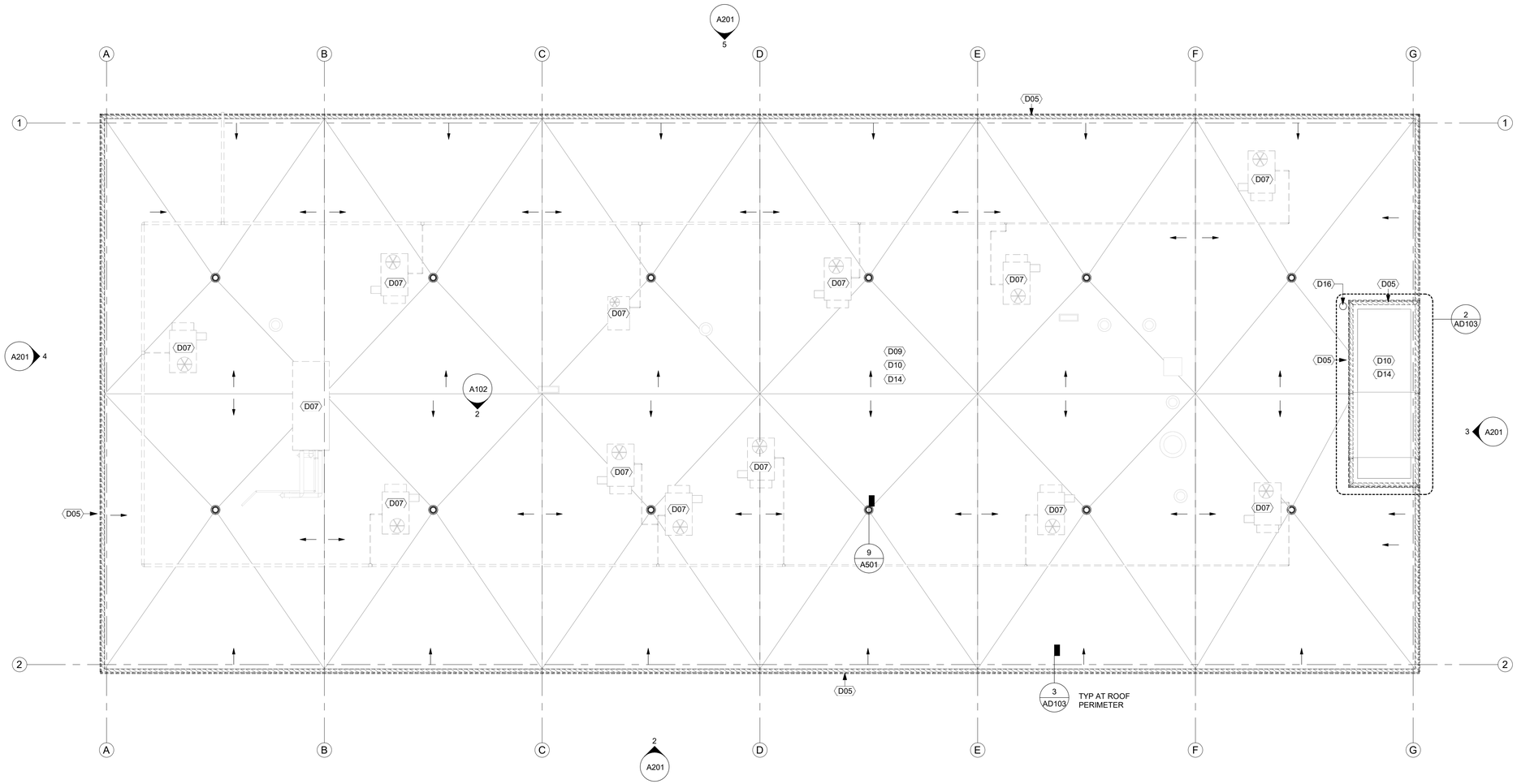
DESCRIPTION	DATE

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	

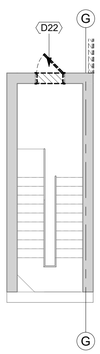
SHEET NAME
LEVEL 1 DEMO PLAN

NOT FOR CONSTRUCTION

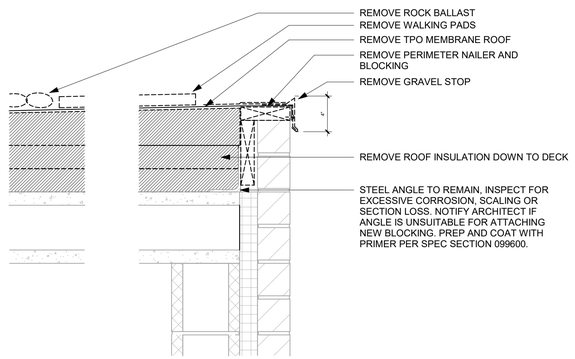
AD101



1 ROOF LEVEL PLAN
1/8" = 1'-0"



2 ROOF STAIR PLAN DEMO
1/8" = 1'-0"



3 TYPICAL ROOF EDGE DEMOLITION
1 1/2" = 1'-0"

GENERAL NOTES

1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE.
6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED.
7. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
8. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.

DEMOLITION LEGEND

DENOTES AREA OF COMPLETE REMOVAL OF AN EXISTING BUILDING ELEMENT

KEYNOTE LEGEND

D05	REMOVE METAL COPING COMPLETE.
D07	REMOVE MECHANICAL ROOF EQUIPMENT, EXISTING CURBS TO REMAIN, SEE MECHANICAL DRAWINGS
D09	REMOVE GRAVEL BALLAST COMPLETE
D10	REMOVE ADHERED UNDERLAYMENTS TO EXPOSE ROOF STRUCTURE.
D14	REMOVE EXISTING ROOFING SYSTEM, INCLUDING ROOF MEMBRANE, BASE FLASHING AND TERMINATION BARS, ROOF INSULATION AND ADHERED VAPOR BARRIERS
D16	REMOVE ANTENNA TOWER
D22	REMOVE DOOR AND FRAME, PREP OPENING FOR INSTALLATION OF NEW DOOR AND FRAME

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OPN ARCHITECTS

511 CAPITOL STREET BUILDING
STABILIZATION PROJECT
511 S CAPITOL ST.
IOWA CITY, IA 52240

ISSUED FOR
PERMITTIING DOCUMENTS

DATE	2025-10-10

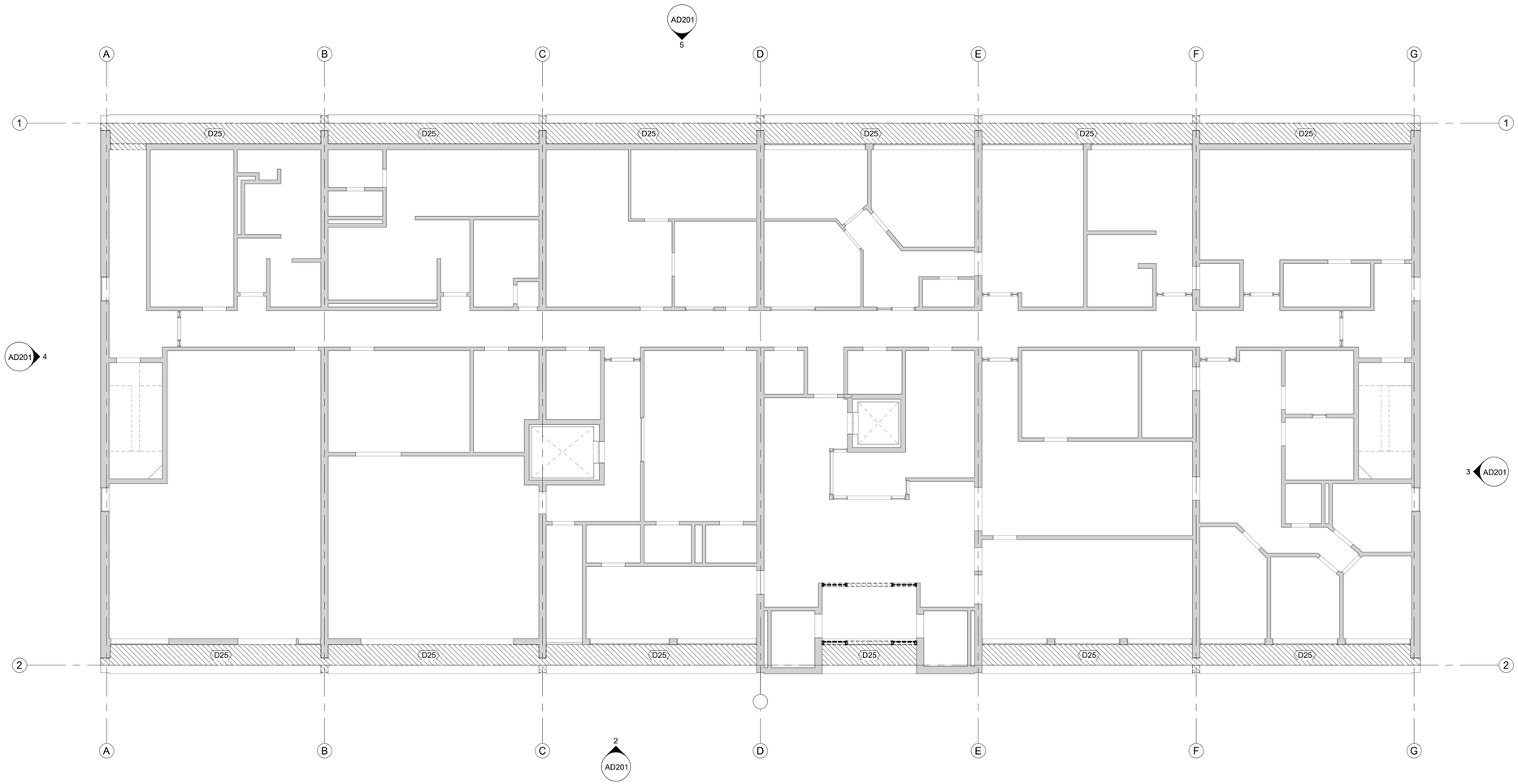
DESCRIPTION	DATE

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	

SHEET NAME
ROOF LEVEL DEMO FLOOR PLAN

NOT FOR CONSTRUCTION

AD103



1 LEVEL 1 SOFFIT DEMO PLAN
1/8" = 1'-0"

2 VIEW ABOVE SOFFIT
1 1/2" = 1'-0"

GENERAL NOTES

1. REMOVE AND SALAVGE ALL CEILING TILE AND LIGHTING FIXTURES FOR REINSTALLATION UNLESS NOTED OTHERWISE
2. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
3. REFER TO SPECIFICATION FOR RECYCLING, CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.
4. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
5. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
6. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
7. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED.
8. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
9. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
10. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.
11. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
12. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
13. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
14. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY

DEMOLITION LEGEND

DENOTES AREA OF COMPLETE REMOVAL OF AN EXISTING BUILDING ELEMENT

KEYNOTE LEGEND

D25	REMOVE STUCCO SOFFIT AND FRAMING COMPLETE, SEE STRUCTURAL, ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION

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OPN ARCHITECTS

511 CAPITOL STREET BUILDING
STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA 52240

ISSUED FOR
PERMITTIING DOCUMENTS

DATE	2025-10-10

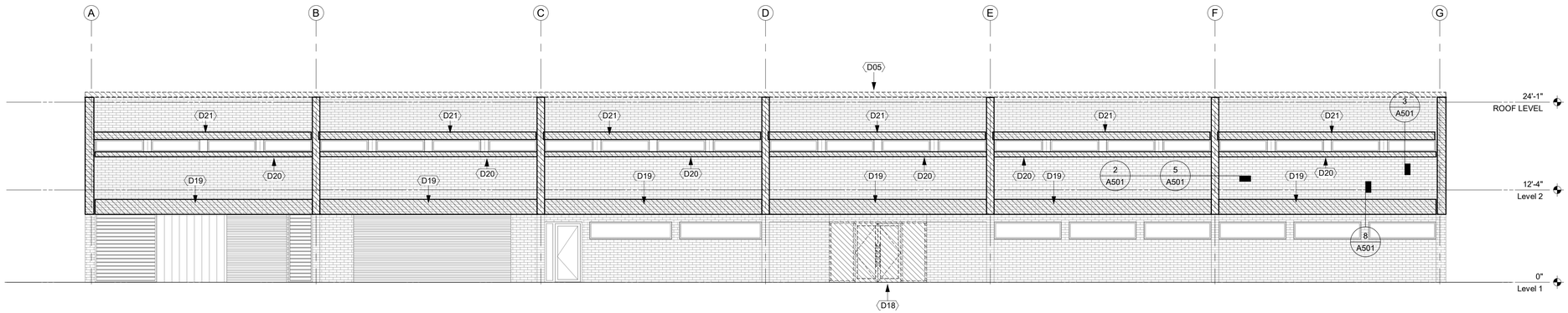
DESCRIPTION	DATE

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	

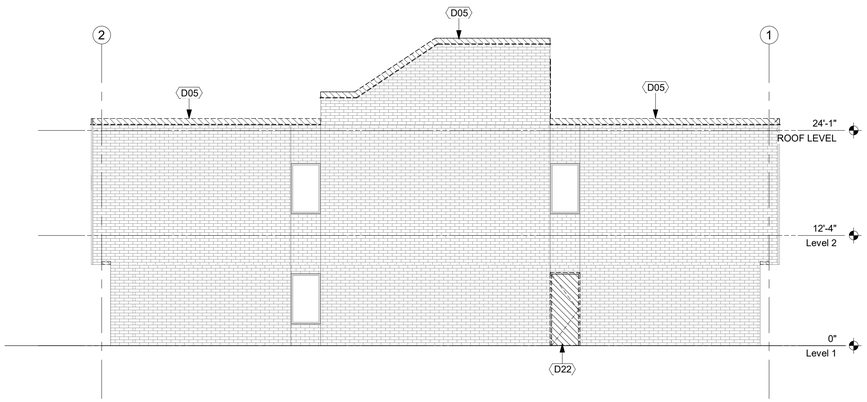
SHEET NAME
LEVEL 1 - DEMO SOFFIT PLAN

NOT FOR CONSTRUCTION

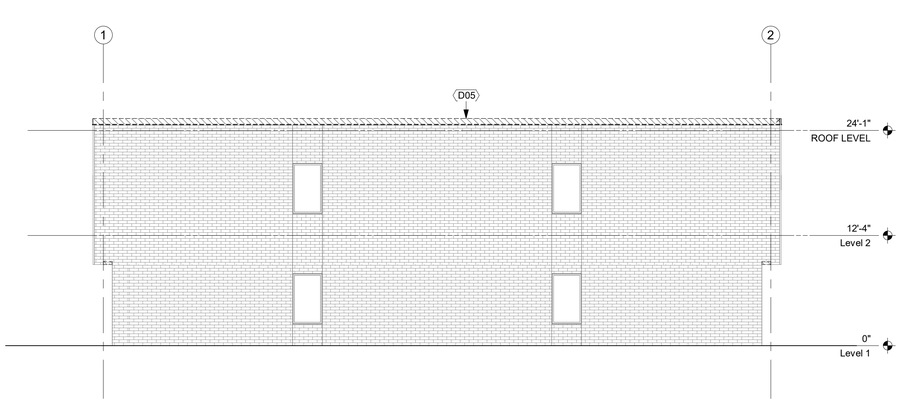
AD111



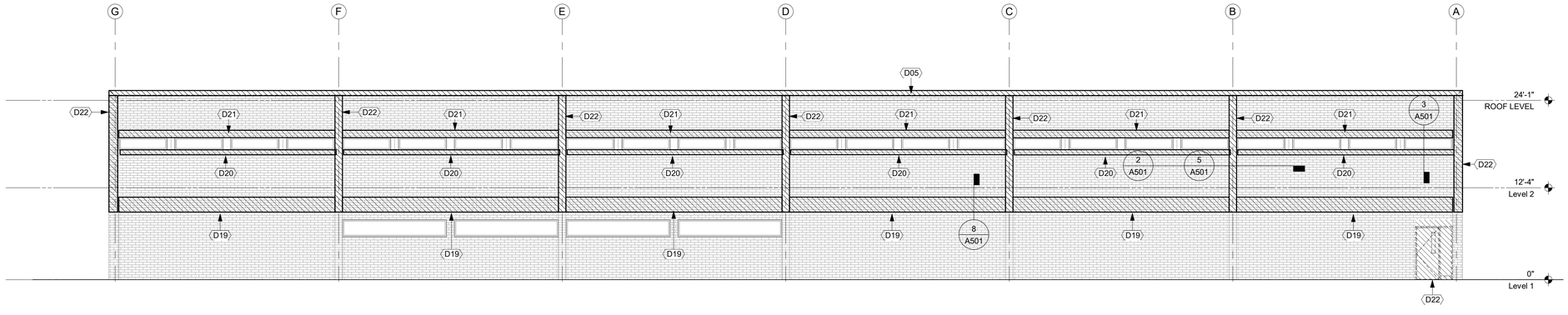
2 EAST ELEVATION - DEMO
1/8" = 1'-0"



3 NORTH ELEVATION - DEMO
1/8" = 1'-0"



4 SOUTH ELEVATION - DEMO
1/8" = 1'-0"



5 WEST ELEVATION - DEMO
1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. TEMPORARY SHORING DESIGN FOR MASONRY REPAIR, REMOVAL AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

DEMOLITION LEGEND

DENOTES AREA OF COMPLETE REMOVAL OF AN EXISTING BUILDING ELEMENT

KEYNOTE LEGEND

D05	REMOVE METAL COPING COMPLETE.
D18	REMOVE HOLLOW METAL ENTRANCE SYSTEM COMPLETE
D19	REMOVE SECTION OF BRICK TO ALLOW REPAIR OF STRUCTURAL SYSTEM, SHORE SECTIONS OF BRICK ABOVE AS REQUIRED. SHORING DESIGN SHALL BE RESPONSIBILITY OF THE CONTRACTOR
D20	REMOVE AND REPLACE SPALLING BRICK
D21	REMOVE SECTION OF BRICK TO ALLOW REPLACEMENT OF WINDOW HEAD FLASHING
D22	REMOVE DOOR AND FRAME, PREP OPENING FOR INSTALLATION OF NEW DOOR AND FRAME

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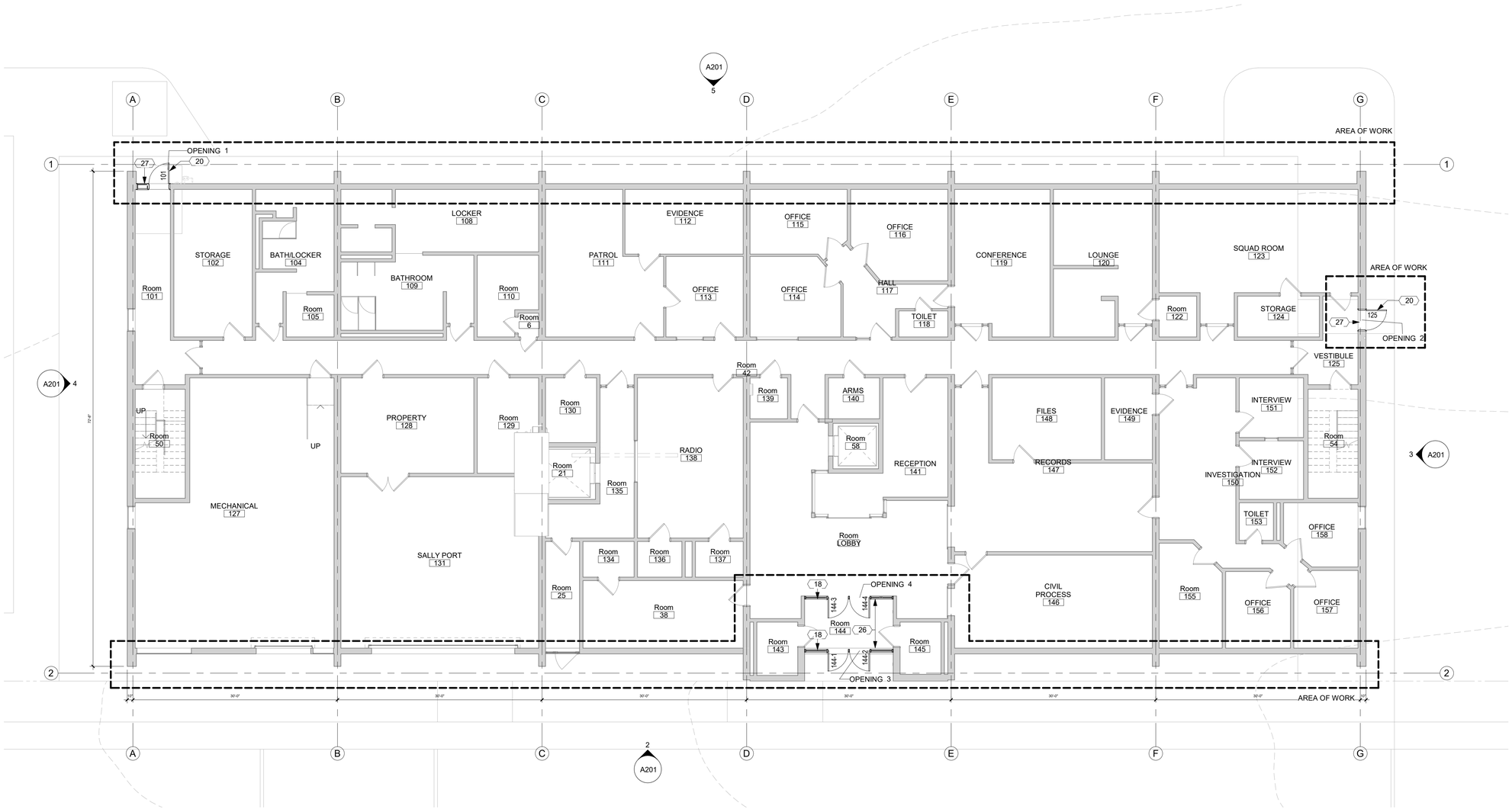
SHEET NAME
ELEVATIONS - DEMO

AD201



1 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. TEMPORARY SHORING DESIGN FOR MASONRY REPAIR, REMOVAL AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

KEYNOTE LEGEND

18	NEW STOREFRONT AND ENTRANCE SYSTEM
20	NEW EXTERIOR HOLLOW METAL DOOR AND FRAME
26	PATCH TILE AT SILL OF NEW STOREFRONT WINDOWS. MATCH EXISTING TILE. TOUCH UP WALL PAINT AROUND NEW FRAME TO MATCH EXISTING.
27	PATCH FLOORING AT SILL OF NEW HOLLOW METAL DOORS AS REQUIRED, MATCH EXISTING FLOORING. OUCH UP WALL PAINT AROUND NEW FRAME TO MATCH EXISTING.

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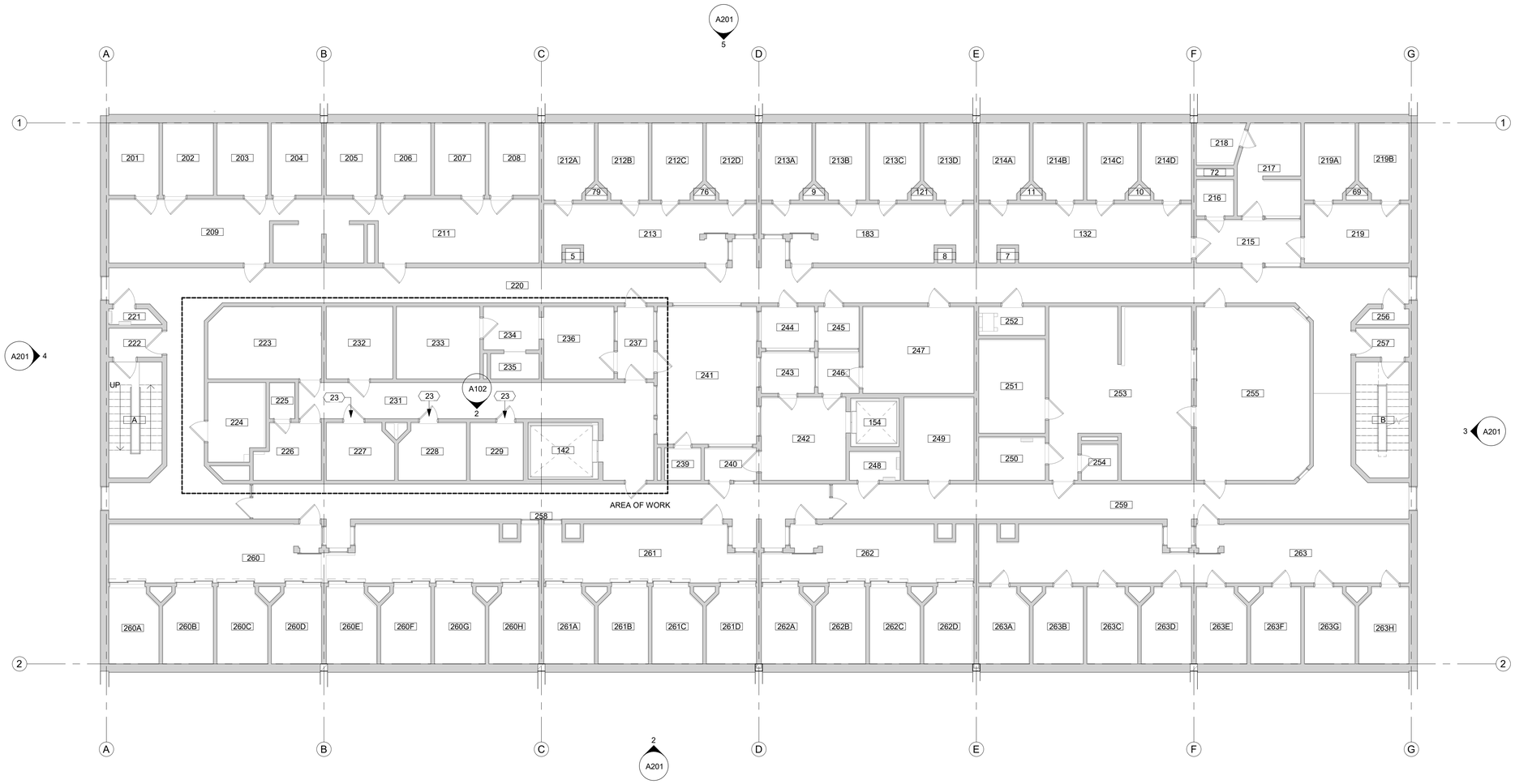
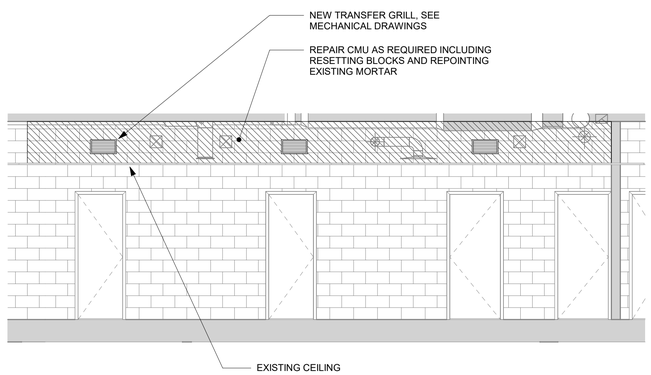
SHEET NAME
LEVEL 1 FLOOR PLAN

NOT FOR CONSTRUCTION

A101



1 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"



2 INTERIOR CMU REPAIR
1/4" = 1'-0"

GENERAL NOTES

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2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. TEMPORARY SHORING DESIGN FOR MASONRY REPAIR, REMOVAL AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

KEYNOTE LEGEND

23 REPAIR CMU ABOVE DOOR AND INSTALL NEW TRANSFER GRILL PER MECHANICAL DRAWINGS. SEE DETAIL 5/A501

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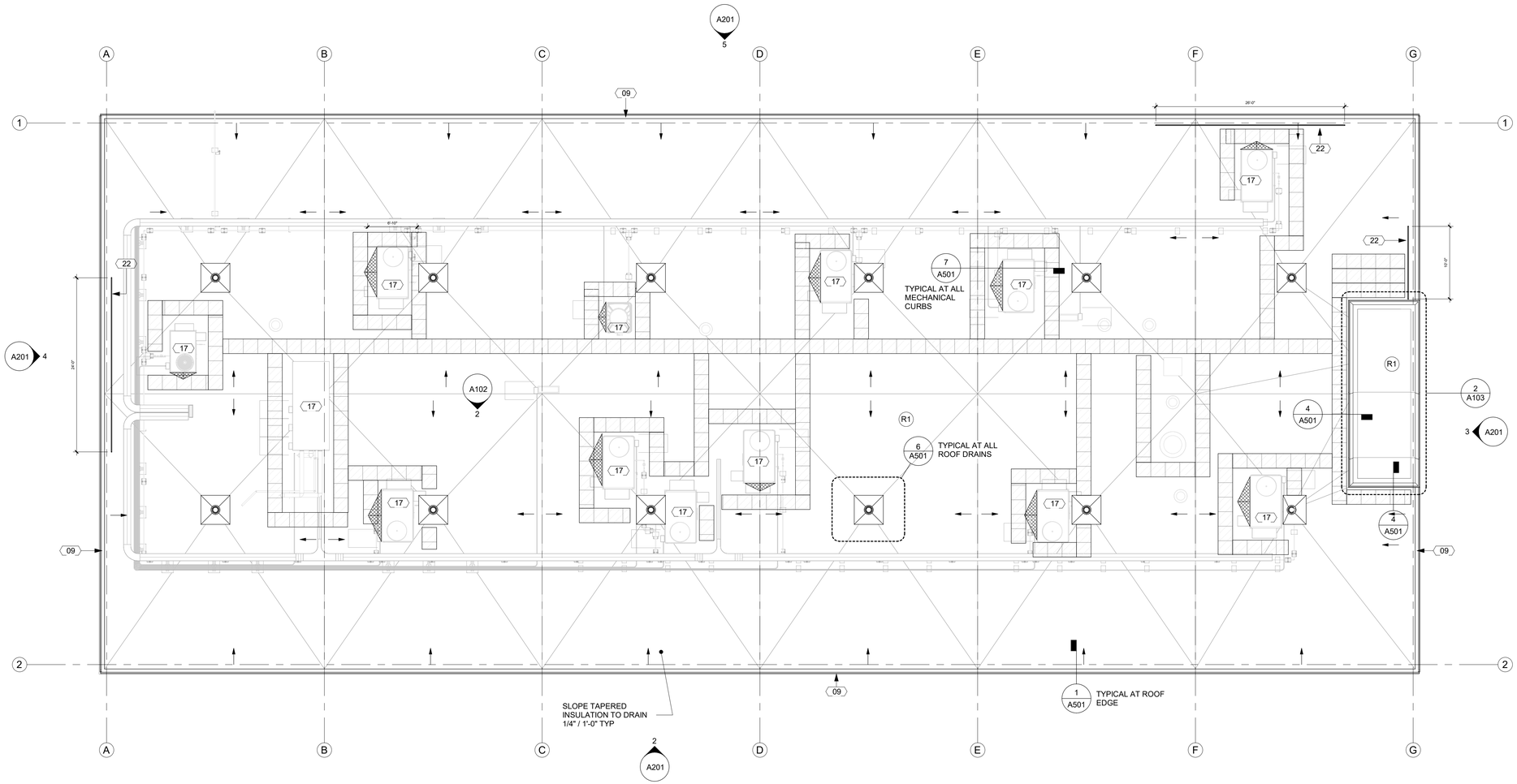
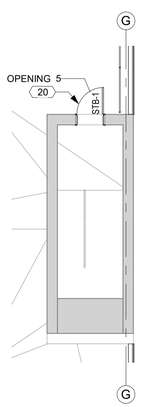
SHEET NAME
LEVEL 2 FLOOR PLAN

NOT FOR CONSTRUCTION

A102



1 ROOF LEVEL NEW PLAN
1/8" = 1'-0"



2 ROOF STAIR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. NOT ALL ROOF PENETRATIONS ARE SHOWN. VERIFY LOCATIONS OF ALL ROOF PENETRATIONS. PROVIDE BOOTS, FLASHING AND OTHER ACCESSORIES REQUIRED TO PROVIDE A COMPLETE, WATERTIGHT WARRANTED SYSTEM REFER TO INDIVIDUAL DISCIPLINES.
2. PATCH ALL ABANDONED PENETRATIONS IN ROOF STRUCTURE TO MATCH EXISTING CONSTRUCTION.
3. COORDINATE SLOPED STRUCTURE AND TAPERED INSULATION WITH STRUCTURAL DRAWINGS.
4. SLOPE ALL TAPERED INSULATION AT 1/4" : 1'-0" UNLESS NOTED OTHERWISE.
5. SLOPE ALL CRICKETS AT 1/2" : 1'-0" PERPENDICULAR TO VALLEY LINES UNLESS NOTED OTHERWISE.
6. INSTALL CRICKETS AT ALL UPSLOPE SIDES OF MECHANICAL CURBS.
7. PROTECT SECTIONS OF THE ROOF THAT HAVE ALREADY BEEN INSTALLED FROM DAMAGE. DO NOT USE THE ROOF FOR A STAGING AREA UNLESS ADEQUATE FACTORY, MUTUALLY APPROVED PROTECTION MEASURES ARE USED TO PROTECT THE ROOF.
8. LOCATIONS OF EXISTING ROOF EDGE AND ROOF TOP EQUIPMENT ARE APPROXIMATE.. FIELD VERIFY ALL EXISTING CONDITIONS.
9. PROVIDE TEMPORARY TERMINATION BARS, FLASHINGS, CURB FLASHING, COVERS, CAPS AND ROOFING MATERIAL AS NEEDED TO PROTECT ALL INTERIOR SPACES FROM WEATHER DURING ALL PHASES OF THE WORK.
10. ALL EXISTING PERIMETER WOOD BLOCKING SHALL BE REMOVED AND REPLACED WITH KILN DRIED AFTER TREATMENT (KDAT) LUMBER. NEW WOOD BLOCKING SHALL BE INSTALLED WITH NON-CORROSIVE FASTENERS TO MATCH NEW INSULATION HEIGHT.
11. ALL BASE TERMINATIONS SHALL HAVE COUNTERFLASHING AND TERMINATION BAR. BASE FLASHINGS SHALL BE A MINIMUM OF 12" ABOVE FINISHED ROOF SURFACE, UNLESS OTHERWISE AGREED TO BY THE ENGINEER. WHERE FEASIBLE, RAISE CURBS AND MODIFY EQUIPMENT AS NECESSARY TO PROVIDE A MINIMUM 12" FLASHING HEIGHT. IDENTIFY ALL LOCATIONS WHERE A 12" FLASHING HEIGHT ISN'T POSSIBLE AND NOTIFY ENGINEER IN ADVANCE.
12. COORDINATE INSULATION HEIGHTS AT EXISTING DOOR THRESHOLDS TO MAINTAIN MINIMUM DOOR OPERATING CLEARANCES.
13. SNAKE OUT AND VERIFY OPERATION OF ALL ROOF DRAINS AT THE COMPLETION OF THE PROJECT. PROVIDE WRITTEN DOCUMENTATION OF THE VERIFICATION PROCESS.

LEGEND

WALKING PADS

ROOF SLOPE DIRECTION
1/4" / 1'-0" TYP

ROOF CURB CRICKET,
SLOPE 1/2"/1'-0" MIN

KEYNOTE LEGEND

09	NEW PREFINISHED GRAVEL STOP
17	NEW ROOFTOP MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
20	NEW EXTERIOR HOLLOW METAL DOOR AND FRAME
22	ROOFTOP GUARDRAIL SYSTEM, SEE STRUCTURAL DRAWINGS

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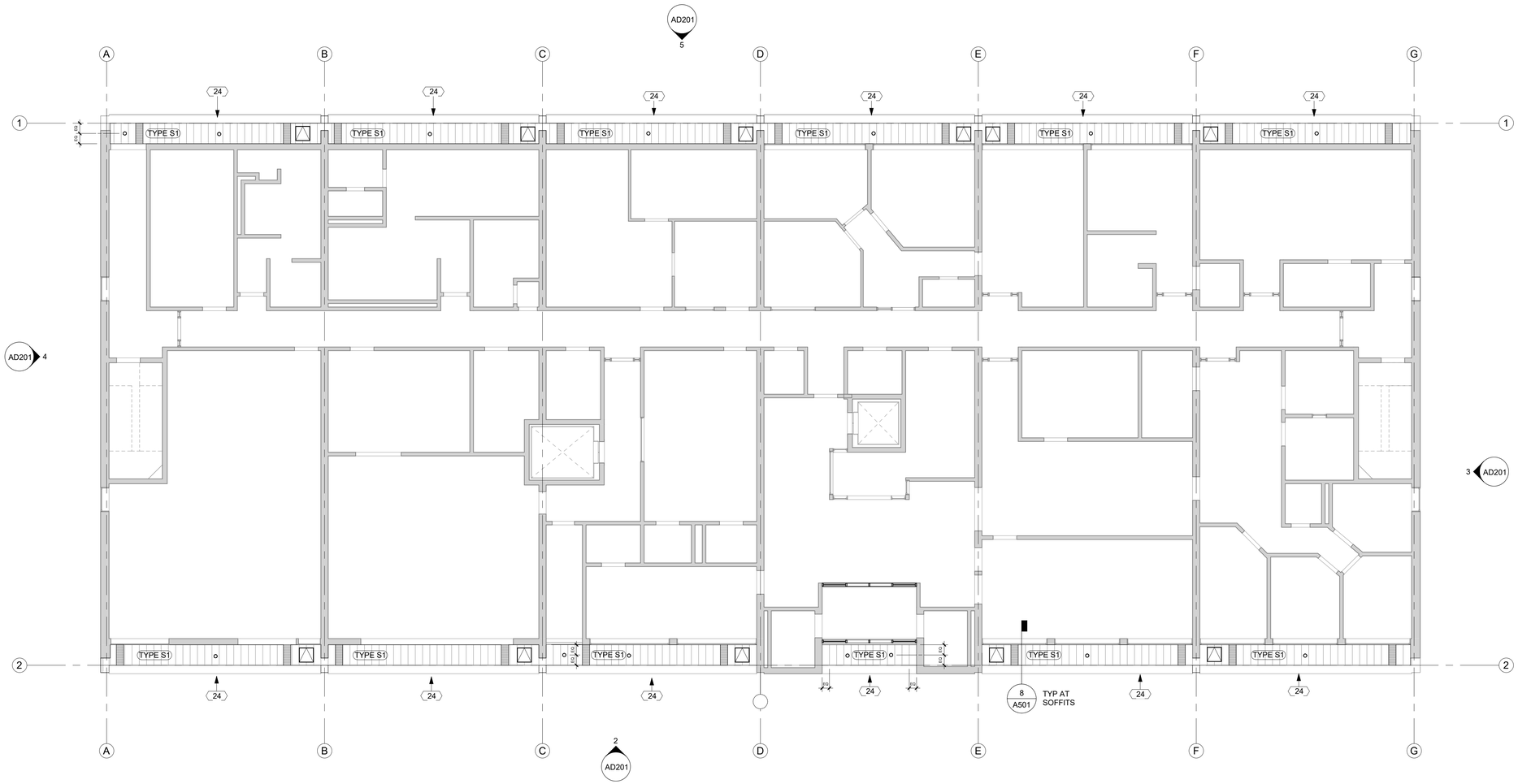
SHEET NAME
ROOF PLAN

A103



1 LEVEL 1 RCP
1/8" = 1'-0"

GENERAL NOTES

1. CEILINGS ARE TYPE A AND INSTALLED TO MATCH EXISTING ELEVATION (8'-2") UNLESS NOTED OTHERWISE
2. CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR GYPSUM BOARD SOFFITS AND EQUALLY SPACED UNLESS NOTED OTHERWISE
3. CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE.
4. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFIT/ACP UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS. IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
6. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
7. REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
8. PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.

KEYNOTE LEGEND

24 PAINT STEEL BRICK SUPPORT WITH HIGH PERFORMANCE COATING

CEILING LEGEND

ACCESS PANEL

DOWN LIGHTS, CENTER IN SOFFIT PANEL UON

VENTED SOFFIT PANEL

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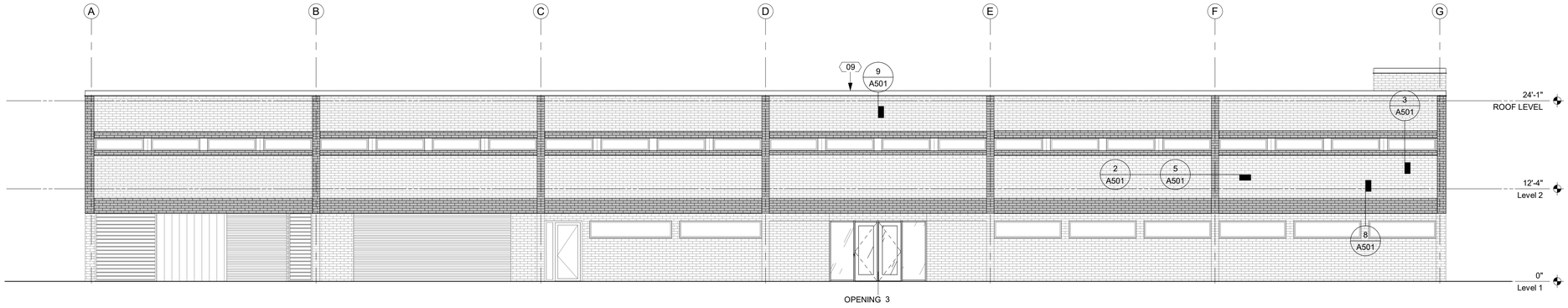
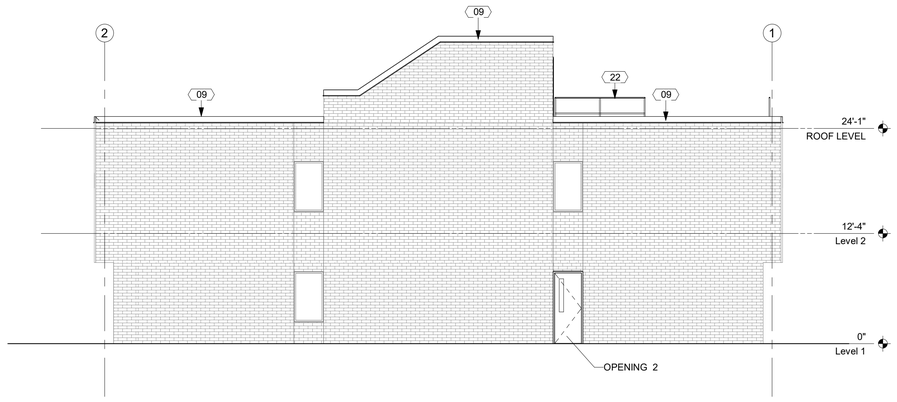
LEVEL 1 - SOFFIT PLAN

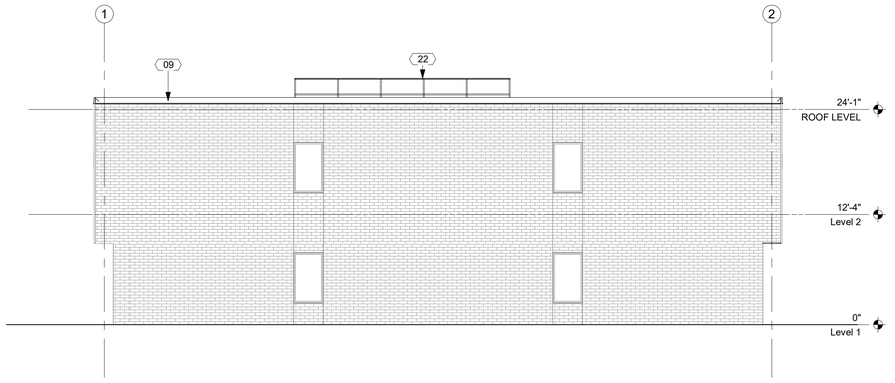
A111



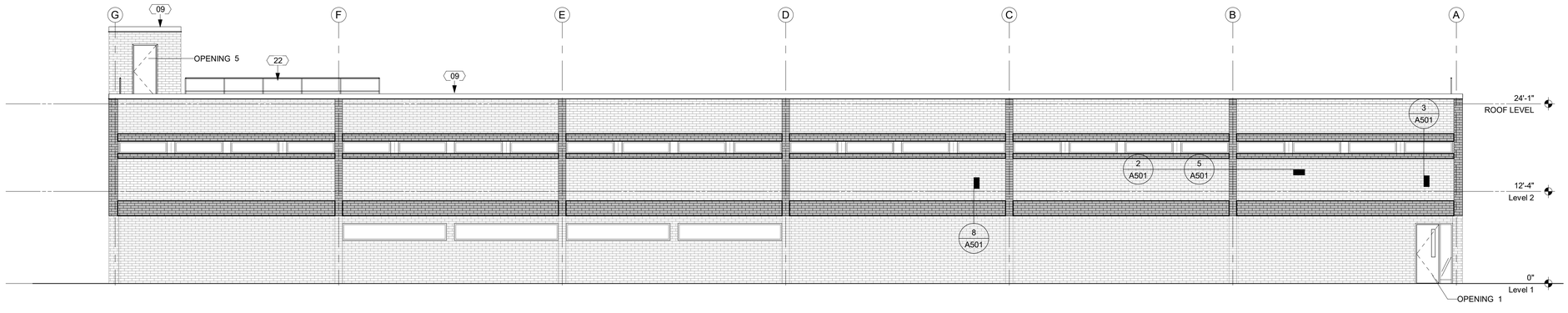
2 EAST ELEVATION
1/8" = 1'-0"



3 NORTH ELEVATION
1/8" = 1'-0"



4 SOUTH ELEVATION
1/8" = 1'-0"



5 WEST ELEVATION
1/8" = 1'-0"

GENERAL NOTES

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2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
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5. TEMPORARY SHORING DESIGN FOR MASONRY REPAIR, REMOVAL AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

LEGEND

EXISTING BRICK

NEW BRICK

KEYNOTE LEGEND

09	NEW PREFINISHED GRAVEL STOP
22	ROOFTOP GUARDRAIL SYSTEM, SEE STRUCTURAL DRAWINGS

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ELEVATIONS

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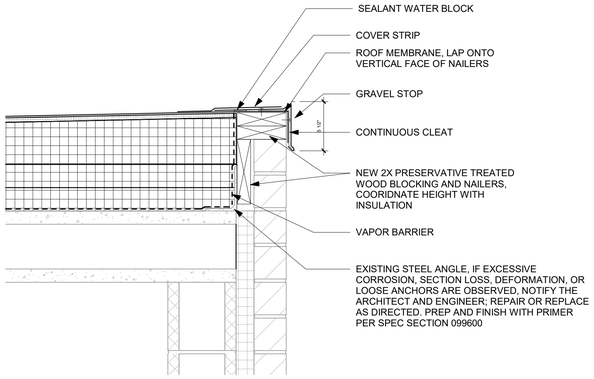
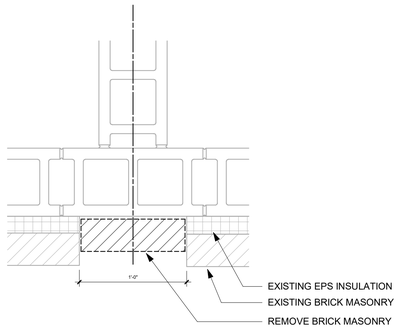
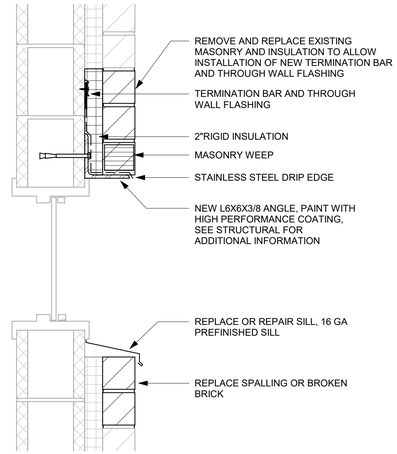
A201



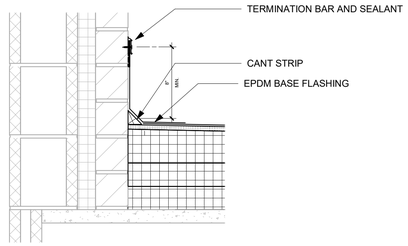
1 ROOF EDGE DETAIL
1 1/2" = 1'-0"



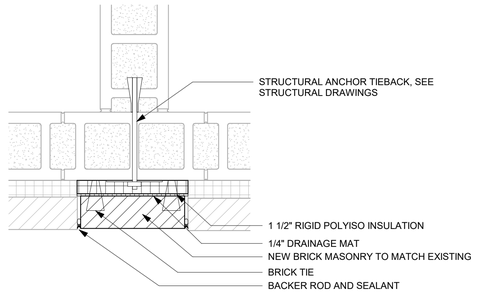
2 SECTION DETAIL AT REVEAL DEMO
1 1/2" = 1'-0"



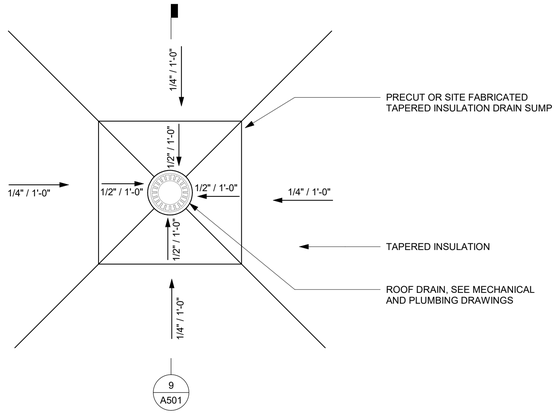
3 SECTION DETAIL UPPER WINDOW
1 1/2" = 1'-0"



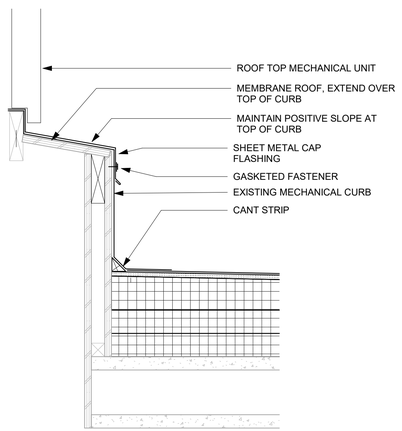
4 ROOF DETAIL - BASE OF WALL
1 1/2" = 1'-0"



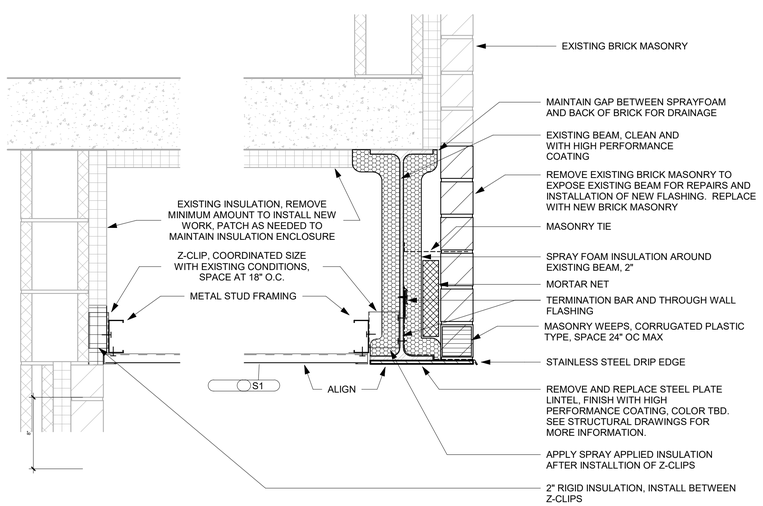
5 SECTION DETAIL AT REVEAL NEW
1 1/2" = 1'-0"



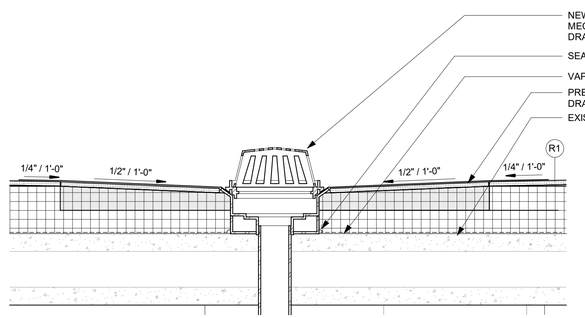
6 DRAIN SUMP DETAIL
1/2" = 1'-0"



7 ROOF DETAIL - MECHANICAL CURB DETAIL
1 1/2" = 1'-0"



8 DETAIL AT CANTILEVER EDGE AND SOFFIT
1 1/2" = 1'-0"



9 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

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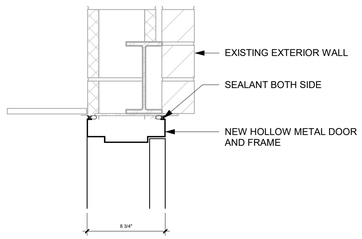
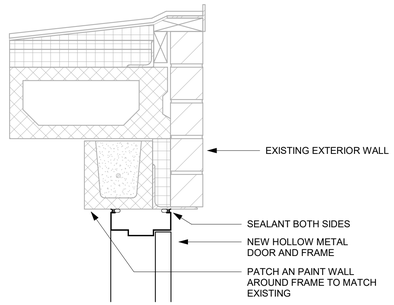
DETAILS

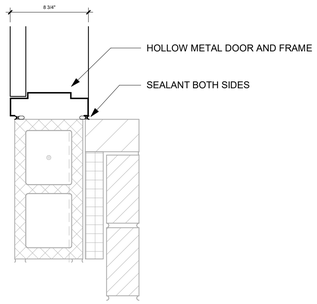
A501



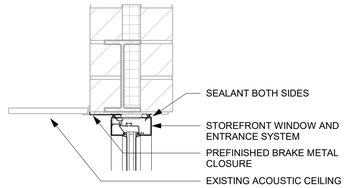
1 HOLLOW METAL HEAD DETAIL
1 1/2" = 1'-0"



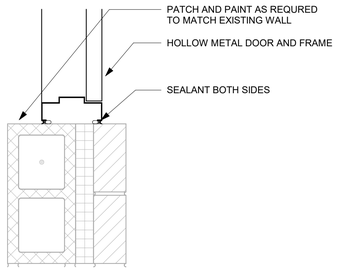
2 HOLLOW METAL HEAD ROOF DETAIL
1 1/2" = 1'-0"



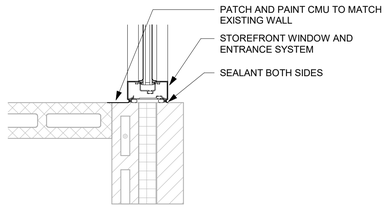
3 HOLLOW METAL JAMB DETAIL
1 1/2" = 1'-0"



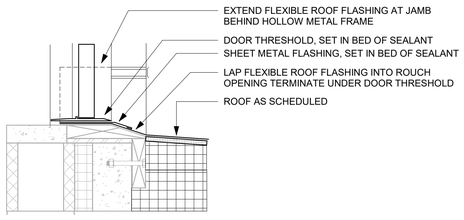
4 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0"



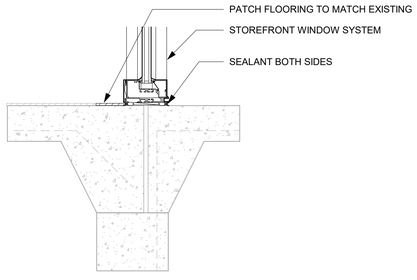
5 HOLLOW METAL JAMB DETAIL 2
1 1/2" = 1'-0"



6 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0"



7 HOLLOW METAL THRESHOLD DETAIL
1 1/2" = 1'-0"



8 STOREFRONT SILL DETAIL
1 1/2" = 1'-0"

NOT FOR CONSTRUCTION

AXIOM CONSULTANTS
WWW.AXIOM-CON.COM | (319) 519-6220

OPN ARCHITECTS

511 S CAPITOL ST.
IOWA CITY, IA 52240

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

ISSUED FOR

PERMITTIING DOCUMENTS

DATE	2025-10-10

DESCRIPTION	DATE

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	

SHEET NAME

DETAILS

A502

GENERAL NOTES:

1. ALL STRUCTURAL WORK TO BE COMPLETED PER THESE DOCUMENTS (INCLUDING THE SPECIFICATIONS) SHALL BE COORDINATED WITH ALL OTHER TRADES. THESE PAGES COMPRISE PART OF A COMPLETE DESIGN. THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR UNDERSTANDING THESE DOCUMENTS AND COORDINATING ALL WORK ACCORDINGLY.
2. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO SUPPLEMENT THE DRAWINGS AND SPECIFICATIONS. CONFLICTS OR PERCEIVED ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AND IN FORMAL (WRITTEN) FASHION IN ORDER TO TRACK CHANGES AND PROVIDE CLARITY FOR RESOLUTIONS.
3. THE INTENT OF THESE PLANS AND NOTES IS TO PRESENT THE PROJECT REQUIREMENTS. MAJOR DETAILS HAVE BEEN SHOWN ON THE DRAWINGS. HOWEVER CERTAIN MINOR DETAILS MUST BE WORKED OUT IN THE FIELD OR THE SHOP DRAWING PROCESS BY THE CONTRACTOR. UNLESS NOTED OTHERWISE, DETAILS SHOWN ON THE DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
4. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIAL, EQUIPMENT, LABOR, INSTALLATION, RESTORATION, UTILITY RELOCATION CHARGES, AND JOB SITE DELIVERY COSTS TO COMPLETE THE DESCRIBED OR ILLUSTRATED WORK.
5. EXCESS COST REQUIRED BY VARIATION IN THE STRUCTURE TO ACCOMMODATE AN ALTERNATE OR SUBSTITUTION FROM THE LISTED BASE OF DESIGN SHALL BE BORNE BY THE CONTRACTOR.
6. THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS AND OMISSIONS BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE BORNE BY THE RESPONSIBLE CONTRACTOR.
7. THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR NEGLIGENT ACTS OR ERRORS OF OMISSIONS OF ANY CONTRACTOR, ANY SUBCONTRACTOR, OR ANY OF THE CONTRACTOR'S SUBCONSULTANT'S AGENTS OR EMPLOYEES OR ANY OTHER PERSONS (EXCEPT ENGINEER'S OWN EMPLOYEES) AT THE PROJECT SITE OR OTHERWISE PERFORMING ANY OF THE WORK OF THE PROJECT. ANY CONTRACTOR OR SUBCONTRACTOR, AS WELL AS THE ENGINEER, WILL BE RESPONSIBLE FOR THEIR OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE ANY CONTRACTOR OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY PRECAUTIONS.
8. THE SCALES FOR DRAWINGS HAVE BEEN SET UNDER THE ASSUMPTION THAT THE DRAWINGS ARE PRINTED ON **24X36** SIZE PAPER. SCALES SHOWN ON DRAWINGS MAY BE USED ONLY IF DRAWINGS ARE PRINTED OR BEING VIEWED ON THE SPECIFIED PAPER SIZE.
9. ALL PLAN AND FIELD DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE FABRICATION OF ANY BUILDING ELEMENTS.
10. SOME COORDINATION ELEMENTS SUCH AS PENETRATION, BRACES, BRACKETS, OFFSETS, ET CETERA, MAY BE NEEDED TO COMPLETE THE PROJECT. THESE ITEMS MAY NOT BE SHOWN ON THE PLANS BUT THE CONTRACTOR SHALL ACCOUNT FOR THEM ACCORDINGLY.
11. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND COMPLY WITH THE REQUIREMENTS OF THE AHJ AND SHALL COODINATE THEIR WORK WITH THE WORK PERFORMED BY OTHERS FOR THE PROPOSED INSTALLATION.
12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL PUBLIC AND PRIVATE UTILITIES AS WELL AS CITY AND STATE AGENCIES.
13. THE CONTRACTOR SHALL PROVIDE APPROPRIATELY ENGINEERED DE-WATERING MEASURES, IF NECESSARY, TO ENSURE ALL WORK AREAS ARE MAINTAINED IN A DRY, WORKABLE STATE, AND IN ORDER TO MEET PROJECT DESIGN REQUIREMENTS.
14. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT UTILITIES, PEDESTRIANS, WORKERS, AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCES, BARRICADES, ETC. AS REQUIRED TO PROTECT ADJACENT PROPERTY AND THE PUBLIC DURING ALL PHASES OF CONTRUCTION.
15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICAEDS, SIGNAGE, WARNING LIGHTS, AND OTHER SAFETY DEVICES FOR ALL OPEN TRENCH LOCATIONS AND AT LOCATIONS WHICH DO NOT HAVE A FINISHED SURFACE.
16. STREETS AFFECTED BY EXCAVATION SHALL BE RESTORED PER LOCAL GOVERNING AGENCY'S SPECIFICATIONS.
17. EXISTING CONDITIONS:
    - A. THE CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT AND INFRASTRUCTURE AT THE SITE. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS OF EXISTING ELEMENTS AND COORDINATE THIS INFORMATION WITH THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
    - B. DURING CONSTRUCTION THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR VARY FROM PROJECT DOCUMENTATION. SUCH CONDITIONS MAY INTERFERE WITH THE NEW CONSTRUCTION OR REQUIRE PROTECTION AND/OR SUPPORT OF EXISTING WORK DURING CONSTRUCTION. IT MAY ALSO CONSIST OF DAMAGED OR DETERIORATED STRUCTURAL MATERIALS OR COMPONENTS WHICH COULD JEOPARDIZE THE STRUCTURAL INTEGRETY OF THE BUILDING(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL DISCOVERIES WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE WORK OR JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING(S) PRIOR TO PROCEEDING WITH THE WORK.
    - C. THE CONTRACTOR IS TO RESTORE ALL DAMAGED STRUCTURES AND UTILITIES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO COST TO THE OWNER.
    - D. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING PIPING, UTLITIES, EQUIPMENT, AND STRUCTURES WHICH COULD BE DAMAGED BY CONSTRUCTION ACTIVITIES. REPAIR OF DAMAGES SHALL BE AT THE CONTRACTOR'S EXPENSE.
18. ALL EXCAVATION WORK NEAR AND AROUND EXISTING UTILITIES SHALL BE BY HAND METHOD.
19. CONTRACTOR SHALL RECORD THE LOCATION AND ELEVATION OF ALL UTILITIES ENCOUNTERED, AND INSTALLATION OF NEW WORK, AS WORK PROGRESSES AND SHALL PREPARE RECORD DRAWINGS (RED-LINES) BASED ON THEIR RECORDS. THESE RECORDS TO BE SUPPLIED TO AXIOM CONSULTANTS AT THE COMPLETION OF THE WORK.
20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY REQUIRED BRACING, TEMPORARY FIXTURES, OR OTHER NECESSARY MEANS TO STABILIZE THE BUILDING DURING CONSTRUCTION AND ERECTION IN ORDER TO PROVIDE THE COMPLETED STRUCTUAL SYSTEM. EOR IS NOT RESPONSIBLE FOR THE STRUCTUAL STABILITY OF INCOMPLETE OR PARTIALLY CONSTRUCTED SYSTEMS.
21. CONTRACTOR'S CONSTRUCTION AND ERECTION SEQUENCE SHALL CONSIDER THE EFFECTS OF THERMAL MOVEMENT OF THE STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
22. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT EXISTS.
23. THESE PLANS COMBINED WITH THE SPECIFICATION MANUAL FORM A COMPREHENSIVE DESIGN. IN CASE OF CONFLICTING OR UNCLEAR INFORMATION, THE STRICTER SPECIFICATION AND/OR REQUIREMENT SHALL GOVERN FOR THIS CONTRACT.

DESIGN INFORMATION:

1. THE FOLLOWING INDUSTRY AND AUTHORITY STANDARDS ARE TO BE FOLLOWED (AT A MINIMUM) ON THIS PROJECT:
    - A. INTERNATIONAL BUILDING CODE (IBC): 2024 EDITION
    - B. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE): MINIMUM DESIGN LOADS FOR BUILDINGS (ASCE 7-22)
    - C. AMERICAN CONCRETE INSTITUTE (ACI): FIELD REFERENCE MANUAL (MNL-15(20))
    - D. AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)
    - E. CONCRETE REINFORCING STEEL INSTITUTE (CRSI): MANUAL OF STANDARD PRACTICE (NEWEST EDITION)
    - F. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC): CODE OF STANDARD PRACTICE (2016 EDITION)
    - G. AMERICAN WELDING SOCIETY (AWS): CERITIFIED WELDER PROGRAM (NEWEST EDITION)
    - H. AMERICAN WOOD COUNCIL (AWC) NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS-12)
    - I. AUTHORITY HAVING JURISDICTION CONSTRUCTION REQUIREMENTS: CITY OF IOWA CITY, IA
2. DESIGN LOADS PER ORIGINAL BUILDING DESIGN:
    - A. DEAD LOADS (LOADING FROM ORIGINAL BUILDING DOCUMENTS):
        - FLOOR SYSTEM 248 PSF
        - ROOFING SYSTEM 86 PSF
    - B. LIVE LOADS (LOADING FROM ORIGINAL BUILDING DOCUMENTS):
        - ROOF LIVE LOAD 30 PSF
        - CORRIDORS 100 PSF
        - ADDITIONAL FLOOR LIVE 40 PSF
    - C. WIND LOADS (IN ACCORDANCE WITH IBC 2024):
        - ULTIMATE WIND SPEED, Vult: 116 MPH
        - NOMINAL WIND SPEED, Valt: 90 MPH
        - WIND EXPOSURE C
        - INTERNAL PRESSURE COEFFICIENT, GCpi +/- 0.18
        - 2024 IBC RISK CATEGORY: III

CONCRETE (DIVISION 03):

1. ALL CONCRETE SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 301, ACI 305.1, ACI 306.1 ACI 315, AND ACI 318 UNLESS NOTED OTHERWISE. ALL REINFORCING BARS TO BE DETAILED AND PLACED IN ACCORDANCE WITH THE NEWEST EDITION OF ACI'S "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" SPECIFICATIONS AND THE CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICE".
2. DRAWINGS IN THIS DOCUMENT MAY NOT REFLECT THE EXACT LENGTH OR QUANITIES OF STEEL REINFORCING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED AMOUNTS AND SUBMIT SHOP REINFORCING DRAWINGS FOR APPROVAL. ALL REBAR PLACEMENT SHALL BE INSPECTED.
3. 28 DAY CONCRETE COMPRESSIVE STRENGTH (F'c):
    FOOTINGS – 4000 PSI
    FOUNDATION WALLS AND PIER – 4000 PSI
    SLAB ON GRADE – 4000 PSI
    COLUMNS – 4000 PSI
4. CONCRETE REINFORCEMENT STANDARDS:
    DEFORMED BARS – ASTM A615 – Fy = 60 KSI
    WELDED WIRE REINFORCEMENT (WWR) – ASTM A1064 – Fy = 65 KSI
    WELDABLE REINFORCING BARS – ASTM A706 – Fy = 60 KSI
    EPOXY COATED REINFORCING – ASTM A775 – Fy = 60 KSI
5. ALL WELDED WIRE FABRIC SHALL BE LAPPED 12" OR 48 WIRE DIAMETERS, WHICHEVER IS GREATER.
6. ALL CONCRETE SHALL BE STONE AGGREGATE UNLESS NOTED OTHERWISE. SUMBIT MIX DESIGN AND DOCUMENTATION FOR APPROVAL PER ACI 318.
7. EXPOSED EDGES OF STRUCTURAL CONCRETE SHALL REQUIRE A CHAMFER OR ROUND-OVER. UNLESS INDICATED, THE CONTRACTOR SHOULD INSTALL 3/4"-1" EDGES.
8. REINFORCEMENT PROTECTION:
    - A. CONCRETE PLACED AGAINST EARTH OR WATER – 3"
    - B. CONCRETE PLACED IN FORMS BUT EXPOSED TO EARTH AND WATER:
        1. BARS #4 AND SMALLER – 1 1/2"
        2. BARS LARGER THAN #4 – 2"
    - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
        1. SLABS, WALLS, AND JOISTS – 1 1/2"
        2. BEAMS AND COLUMNS – 1 1/2"
9. WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE, NUMBER, AND SPACING OF THE MAIN REINFORCING UNLESS NOTED OTHERWISE.
10. ALL SPLICES, STANDARD HOOKS, AND DEVELOPMENT LENGTHS TO BE PER THE REFERENCED EDITION OF ACI 318. MAKE BARS CONTINUOUS AROUND CORNERS. ALL SPLICES SHALL BE BY CONTACT LAP. ALL SPLICES SHALL BE A "CLASS B" TENSION SPLICE AS DEFINED IN ACI 318. PROVIDE LAP SPLICE LENGTHS AS FOLLOWS:

TENSION DEVELOPMENT AND SPLICE LENGTHS							
BAR SIZE	DEVELOPMENT		CLASS "B" SPLICE		STANDARD		
	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	EMBED	LEG LENGTH	BEND DIA.
#3	19	19	24	19	6	6	2.25
#4	25	25	32	25	7	8	3.0
#5	31	31	40	31	9	10	3.75
#6	37	37	48	37	10	12	4.5
#7	54	54	70	54	12	14	5.25
#8	62	62	80	62	14	16	6.0

    LAP SPLICE LENGTHS GIVEN ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS AND A MINIMUM CLEAR COVER OF 1 BAR DIAMETER. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" ON FRESH CONCRETE BENEATH THE BARS.
11. WALLS AND GRADE BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE, UNLESS APPROVED BY THE ENGINEER.
12. CONSTRUCTION JOINTS IN STRUCTURAL CONCRETE WORK MUST BE MADE AT CENTER OF SPAN OR AT CENTER OF SUPPORT WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS UNLESS OTHERWISE SHOWN.
13. PLACE ALL SLABS ON GRADE WITH AN APPROVED JOINT PATTERN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER (OR AS SHOWN ON THE DRAWINGS) THAT MEET THE FOLLOWING:
    - A. CONTROL JOINTS SHALL BE SAW CUT OR TOOLED.
    - B. LOCATE JOINTS ALONG COLUMN CENTER LINES WITH INTERMEDIATE JOINTS AT A SPACING OF 36 TIMES THE SLAB THICKNESS.
    - C. SLAB JOINT PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. DO NOT STAGGER OR OFFSET JOINTS.
    - D. PROVIDE ADDITIONAL JOINTS AT RE-ENTERANT CORNERS. REFER TO STANDARD FOUNDATION DETAILS FOR FURTHER REQUIREMENTS.
    - E. SEQUENCE OF CONSTRUCTION AND CONTROL JOINTS SHALL BE PLACED TO MINIMIZE SHRINKAGE CRACKS.
14. PROVIDE PVC WATERSTOPS IN ALL BELOW GRADE CONSTRUCTION JOINTS AND AT OTHER LOCATIONS AS SHOWN ENCLOSING INTERIOR SPACES.
15. THERE SHALL BE NO ADDITIONAL OPENINGS LARGER THAN 10" IN CONCRETE WALLS AND SLABS NOT SHOWN. REFER TO CONCRETE OPENING DETAIL FOR ADDITIONAL REINFORCEMENT AROUND OPENINGS.
16. REINFORCING STEEL SHALL BE SECURELY FASTENED INTO FORMS PRIOR TO POURING CONCRETE. WET SETTING OF REINFORCING STEEL WILL NOT BE ACCEPTED PER ACI. SYNTHETIC OR VINYL DIPPED CHAIRS SHALL BE UTILIZED FOR ALL EDGE CONDITIONS.
17. STRUCTURAL CONCRETE OF ANY TYPE SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED A MINIMUM OF 75% OF DESIGN STRENGTH AS INDICATED BY THE BREAKING OF FIELD CYLINDERS TAKEN AT THE TIME OF PLACEMENT. ALL LOADING SHOULD BE APPROVED BY THE EOR.
18. FORMWORK SHALL REMAIN IN PLACE A MINIMUM OF 3 DAYS WHILE STRUCTURAL CONCRETE CURES. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE EOR.
20. CALCIUM CHLORIDE IS NOT PERMITTED IN ANY CONCRETE MIX DESIGN.
21. ALL ADMIXTURES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO USE.
22. ALL CONCRETE PLACEMENTS SHALL BE TESTED FOR AIR CONTENT, SLUMP, TEST SAMPLES, AND TEMPERATURE IN ACCORDANCE WITH ASTM C172, ASTM C31, AND ACI 318. FOR EACH CONCRETE PLACEMENT. THE CONTRACTOR IS TO TAKE TESTS AS INDICATED IN THE SPECIAL INSPECTIONS CHART. READY MIX TRUCKS MUST PROVIDE TICKETS WHEN DELIVERING TO THE SITE. TICKETS SHALL INCLUDE RELEVANT BATCHING INFORMATION. ALL TICKETS SHALL BE GATHERED AT THE END OF EACH DAY BY THE CONTRACTOR AND COPIES OF THOSE TICKETS SHALL BE PROVIDED TO THE EOR.
23. CONCRETE FINISH REQUIREMENTS:
    - A. FOR SURFACES NOT EXPOSED TO PUBLIC VIEW, PROVIDE A ROUGH-FORMED FINISH. REPAIR AND PATCH DEFECTS IN CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL WITH TIE HOLES. REMOVE FINS AND OTHER PROJECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED SURFACE IRREGULARITIES.
    - B. FOR SURFACES EXPOSED TO PUBLIC VIEW, PROVIDE A SMOOTH-FORMED FINISH. REPAIR AND PATCH DEFECT IN CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL. REPAIRS SHOULD BE ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMUM NUMBER OF SEAMS. REPAIR AND PATCH TIE HOLES AND DEFECTS. REMOVE FINS AND OTHER PROJECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED-SURFACE IRREGULARITIES.
        1. FINISH QUALITY: SF-2.0 AS SPECIFIED IN ACI 301
           PATCH VOIDS LARGER THAN 3/4" WIDE OR 1/2" DEEP
           REMOVE PROJECTIONS LARGER THAN 1/4"
           PATCH TIE HOLES
           SURFACE TOLERANCE CLASS B AS SPECIFIED IN ACI 117
        2. PROVIDE A HAND-RUBBED GROUT FINISH USING CSI FINISHCRETE RUBBING COMPOUND OR EQUIVALENT TO REMOVE THE APPEARANCE OF BUG HOLES, DISCOLORATION AND OTHER SURFACE DEFECTS, IF SPECIFIED.

MASONRY (DIVISION 04):

1. ASTM C90 SHALL APPLY TO ALL WORK AND MATERIALS UNLESS NOTED OTHERWISE.
2. CONCRETE MASONRY UNIT STANDARDS AND COMPRESSIVE STRENGTHS ARE AS FOLLOWS:
    DESIGN ASSEMBLY STRENGTH, F'm, BY UNIT STRENGTH METHOD – 2500 PSI
    CONCRETE MASONRY UNITS (NORMAL WEIGHT) – ASTM C90 – 3250 PSI
    MASONRY GROUT – ASTM C476 – 2500 PSI
    MASONRY MOTAR, TYPE S – ASTM C270 – 1800 PSI
    REINFORCING FOR MASONRY – ASTM A615 – Fy = 60 KSI
    PLATE AND BENT BAR ANCHORS – ASTM A36
    WIRE MESH TIES – ASTM A185
    JOINT REINFORCMENT, LADDER TYPE, 1.7 (9 GA.) – ASTM A1064
    ANCHOR RODS FOR MASONRY – ASTM A307
3. ALL PLACEMENT IS RUNNING BOND PATTERN UNLESS NOTES OTHERWISE. ALL CMU INTERSECTING TO BE TOOTHED-IN UNLESS OTHERWISE NOTED.
4. THE LOAD BEARING CONCRETE MASONRY WALLS FOR THIS PROJECT WERE DESIGNED TO SPAN VERTICALLY AND BE BRACED BY THE ROOF AND FLOOR FRAMING ELEMENTS OF THE STRUCTURE DURING CONSTRUCTION. THE MASONRY CONTRACTOR SHALL PROVIDE LATERAL BRACING UNTIL THE ROOF STRUCTURE IS INSTALLED AS RECOMMENDED BY ACI 530 AND THE LATEST REVISION OF "STANDARD PRACTIVE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION', PREPARED BY THE COUNCIL FOR MASONRY WALL BRACING. THIS BRACING IS TO PREVENT UNNECESSARY STRESS OR DAMAGE TO THE MASONRY WALLS FROM LATERAL LOADS WHICH CAN OCCUR WHILE THE WALLS ARE NOT PROPERLY BRACED BY THE ROOF AND FLOOR STRUCTURE.
5. SPLICE REINFORCING USING CONTACT LAPS OF THE FOLLOWING LENGTHS:

MINIMUM LAP SLICE LENGTH				
BAR SIZE	6" CMU	8" CMU	10" CMU	12" CMU
#4	36	36	36	36
#5	45	45	45	45
#6	54	54	54	54
#7	NP	63	63	63
#8	NP	113	72	72

6. MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES AND RELATED COMMENTARIES (ACI 530/ASCE 6/TM 602) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, EXCEPT WHERE REQUIREMENTS ARE EXCEEDED BY THE CONTRACT DOCUMENTS.
7. THOROUGHLY MIX MORTAR AND GROUT INGREDIENTS IN ACCORDANCE WITH THE REFERENCED ASTM ABOVE IN QUANITIES NEEDED FOR IMMEDIATE USE. DO NOT USE ANTI-FREEZE COMPOUNDS TO LOWER THE FREEZING POINT.
8. ALL LOAD BEARING MASONRY WALLS SHALL HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS. LAY HOLLOW MASONRY UNITS WITH FACE SHELL BEDDING ON HEAD AND BED JOINTS.
9. HORIZONTAL JOINT REINFORCEMENT: ALL LOAD BEARING MASONRY WALLS SHALL BE CONSTRUCTED WITH GALVANIZED LADDER TYPE JOINT REINFORCEMENT AS FOLLOWS:
    - A. SPACED AT A MAXIMUM OF 16" O.C. IN WALL CONSTUCTION.
    - B. LAP JOINT REINFORCEMENT ENDS A MINIMUM OF 6".
    - C. PLACE HORIZONTAL JOINT REINFORCEMENT ONE ROW ABOVE AND ONE ROW BELOW ALL WALL OPENINGS.
    - D. PLACE CONTINUOUS JOINT REINFORCEMENT IN FIRST JOINT BELOW THE TOP OF THE WALL. DO NOT CONTINUE HORIZONTAL JOINT REINFORCEMENT ACROSS CONTRAL OR EXPANSION JOINTS.
10. ALL LOAD BEARING REINFORCED UNIT MASONRY WALLS SHALL HAVE (1) #5 BAR VERTICALLY IN GROUTED CELLS AT ALL CORNERS, ENDS OF WALLS, WALL INTERSECTIONS, AND IMMEDIATELY ADJACENT TO EACH SIDE OF CONTROL JOINTS AND WALL OPENINGS.
11. ALL CORNERS AND INTERSECTIONS SHOULD BE INTERLACED AND TOOTH-IN UNLESS NOTED OTHERWISE.
12. VERTICAL REINFORCING SHALL EXTEND INTO BOND BEAMS.
13. WHEN WALL REINFORCING IS NOT SPECIFIED PROVIDE #5 BARS @ 48" O.C. MINIMUM.
14. PROVIDE BOND BEAMS AT ALL WALLS SUPPORTING ROOF AND FLOOR SLABS.
15. CONCRETE MASONRY UNIT CORES SHALL BE PLACED WITH CELLS IN VERTICAL ALIGNMENT. ALL CORES CONTAINING REINFORCEMENT AND ANCHORS SHALL BE FILLED SOLID WITH GROUT. GROUT ALL CELLS TO RECEIVE ANCHORS. FULLY GROUT ALL BELOW GRADE BLOCKS.
16. PROVIDE A MINIMUM OF 1/2" OF GROUT BETWEEN THE MAIN REINFORCING AND THE MASONRY UNITS. ALL VERTICAL REINFORCEMENT SHALL BE CENTERED IN THE WALL UNLESS NOTED OTHERWISE.
17. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 25 FEET AS FOLLOWS:
    - A. CONTROL JOINTS SHALL NOT INTERFERE WITH BEAMS, JOISTS, OR LINTEL BEARING.
    - B. PROVIDE PREFORMED EXTRUDED RUBBER CONTROL JOINTS DESIGNED FOR MASONRY WALLS CONFORMING TO ASTM D2000 2AA-805.
    - C. SEAL JOINTS WITH SINGLE COMPONENT ELASTERMERIC POLYURETHANE SEALANT, COLOR TO MATCH MOTAR JOINTS.
18. DOWELS IN FOOTINGS SHALL BE PLACED TO ALIGN WITH CORES CONTAINING REINFORCING STEEL. COORDINATE PLACEMENT BEFORE CONSTRUCTION OF FOOTINGS BEGINS.
19. GROUT SOLID ALL CMU CORES BELOW ADJACENT GRADE OR BELOW SLAB OF GRADE CONSTRUCTION.
20. DURING CONSTRUCTION OF WALLS, COVER TOPS OF WALLS, PARTIALLY COMPLETED MASONRY AND ANY OPEN WALL CAVITIES AT SILLS OR HEADERS WITH WATERPROOF SHEETING AT THE END OF EACH DAY'S WORK.
21. MASONRY WALL CONSTRUCTION TOLERANCES:
    - A. MAXIMUM VARIATION FROM UNIT TO UNIT: 1/16"
    - B. MAXIMUM VARIATION FROM PLANE OF WALL: 1/4"
    - C. MAXIMUM VARIATION FROM PLUMB: 1/4"
    - D. MAXIMUM VARIATION FROM LEVEL COURSING: 1/8"
    - E. MAXIMUM VARIATION OF JOINT THICKNESS: 1/8"
    - F. MAXIMUM VARIATION FROM CROSS SECTIONAL THICKNESS OF WALL: 1/4"
22. REINFORCE ALL NON-LOAD BEARING MASONRY WALLS (SHOWN ON ARCHITECTURAL DRAWINGS) WITH #5 BARS AT 48" O.C. UNLESS NOTED OTHERWISE.
23. BEAM BEARING CONDITIONS: FILL BLOCK CELLS SOLID WITH GROUT A DISTANCE OF 24" BENEATH AND 12" EACH SIDE OF BEAM REACTIONS OR OTHER CONCENTRATED LOADS IF NOT OTHERWISE REINFORCED. ALL BEAM AND JOIST POCKETS SHALL BE GROUTED SOLID OR FILLED WITH CONCRETE MASONRY UNITS AFTER STEEL ERECTION IS COMPLETE.

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PERMITTING DOCUMENTS

DATE	10/10/2025
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CHECKED BY	JS
PROJECT NO.	240123

SHEET NAME

GENERAL NOTES

S-000

STRUCTURAL STEEL (DIVISION 05):

1. STRUCTURAL STEEL SHALL CONFORM TO THE REFERENCED EDITION OF THE AISC "CHAPTER 22: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL MATERIAL STANDARDS SHALL BE AS FOLLOWS:

WIDE FLANGE SECTIONS	ASTM A992	Fy = 50 KSI
ANGLES, CHANNELS, & PLATES	ASTM A36	Fy = 36 KSI
SQUARE AND RECTANGULAR HSS	ASTM A500, GR. C	Fy = 50 KSI
ROUND HSS	ASTM A500, GR. C	Fy = 46 KSI
STANDARD PIPE SECTIONS	ASTM A53, GR. B	Fy = 35 KSI
CAP AND BASE PLATES	ASTM A36	Fy = 36 KSI
GUSSET PLATES	ASTM A36	Fy = 36 KSI
STIFFENER PLATES	ASTM A36	Fy = 36 KSI
CONNECTION PLATES AND ANGLES	ASTM A36	Fy = 36 KSI

3. STRUCTURAL STEEL CONNECTION STANDARDS:

HIGH STRENGTH BOLTS	ASTM F3125	GRADE A325
HIGH STRENGTH BOLTS	ASTM F3125	GRADE A490
TENSION CONTROL BOLT/NUT/WASHER	ASTM F1852	
HEAVY HEX NUT	ASTM A563	
WASHERS	ASTM F436	
ANCHOR RODS	ASTM F1554	GRADE 36
THREADED RODS	ASTM 36	
STUDS	ASTM A108, TYPE B NELSON HEADED SHEAR STUD CONNECTOR OR EQUAL	
WELDING ELECTRODES (CARBON STEEL)	AWS 5.1, E70XX	

4. WELDING SHALL BE IN ACCORDANCE WITH STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION, AND SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY USING PROPER ELECTRODES FOR MATERIAL BEING WELDED. PROVIDE WELD SIZE IN ACCORDANCE WITH AISC SPECIFICATIONS, BUT NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS NOTED. WELDING TO LIGHT GAUGE STEEL SHALL ONLY BE ALLOWED PER THE MANUFACTURER'S RECOMMENDATIONS.
5. ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH RCSC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". SEE DRAWINGS FOR BOLT SIZES. USE 3/4" DIAMETER A325 BOLTS UNLESS NOTED OTHERWISE.
6. ALL BOLTED CONNECTIONS ARE BEARING TYPE, UNLESS INDICATED AS TENSION CONTROLLED (TC) OR SLIP CRITICAL (SC). PROVIDE STANDARD HOLES FOR BEARING TYPE CONNECTION WHICH ARE 1/16" WIDER DIAMETER THAN THE BOLT.
7. ALL EXTERIOR EXPOSURE STEEL FRAMING, STEEL LINTEL ASSEMBLIES, BRICK RELIEF ANGLES AND CONNECTORS SHALL BE HOT DIP GALVANIZED. ITEMS INDICATED TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED IN COMPLIANCE WITH ASTM A123.
8. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS. STEEL SHALL BE HAND TOOL CLEANED (SSPC-SP2) OR POWER TOOL CLEANED (SSPC-SP3).
9. ALL STRUCTURAL STEEL WILL HAVE ONE COAT OF FABRICATOR'S STANDARD LEAD AND CHROMATE-FREE RUST INHIBITIVE PRIMER APPLIED PRIOR TO DELIVERY TO THE JOB SITE UNLESS NOTED OTHERWISE. ALL AREAS OF STRUCTURAL STEEL MEMBERS IN WHICH THE PRIMER COATED SURFACE IS DAMAMGED DURING CONSTRUCTION SHALL BE TOUCHED UP WITH MATCHING PRIMER.
10. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
11. ALL MISCELLANEOUS STEEL AS SHOWN OR REFERENCED ON THE ARCHITECTURAL DRAWINGS SHALL BE FABRICATED AND INSTALLED AS PART OF THE STRUCTURAL STEEL.
12. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORES, GUYS, BRACES, AND OTHER SUPPORTS DURING ERECTION TO KEEP THE STRUCTURAL STEEL SECURE, PLUMB, AND IN ALIGNMENT AGAINST TEMPORARY CONSTRUCTION LOADS AND LOADS EQUAL TO DESIGN LOADS. REMOVE ALL TEMPORARY SUPPORTS WHEN PERMENANT STRUCTURAL STEEL FRAMING AND CONNECTIONS ARE COMPLETED.
13. MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL WITHIN AISC 303, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
14. DO NOT ENLARGE MISALIGNED BOLT HOLES BY BURNING OR THERMAL CUTTING. REAM HOLES THAT MUST BE ENLARGED TO INSTALL BOLTS.
15. THE SPLICING OF STEEL MEMBERS NOT SPECIFICALLY SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE EOR.
16. BEAMS SHALL BEAR 8" MINIMUM ON SUPPORTING CONCRETE OR MASONRY. PROVIDE 1/2" EMBED PLATES 8" LONG x 2" WIDER THAN THE BEAM WITH (4) 1/2" DIA. x 6" HAS, UNLESS NOTED OTHERWISE.
17. STEEL STAIRS:
    - A. DESIGN OF STEEL STAIRS SHOWN ON DRAWINGS IS THE RESPONSIBILITY OF THE FABRICATOR.
    - B. UNLESS NOTES OTHERWISE, TREADS AND LANDINGS SHALL BE FILLED WITH 2" OF CONCRETE MEETING THE MIX DESIGN REQUIREMENTS PREVIOUSLY SPECIFIED.
    - C. SUBMIT COMPLETE, SEALED, SHOP DRAWINGS INCLUDING ENGINEERING CALCULATIONS FOR EACH STAIR. DRAWINGS SHALL INCLUDE ALL MEMBERS AND CONNECTIONS, INCLUDING CONNECTIONS TO SUPPORTING STRUCTURE.
    - D. UNLESS NOTED, ALL CONNECTIONS TO STEEL STRUCTURE SHALL BE WELDED AND ALL CONNECTIONS TO CONCRETE OR MASONRY SHALL BE POST-INSTALLED ANCHORS (SCREW, EXPANSION, OR EPOXY TYPE). MASONRY CONNECTIONS SHALL ONLY BE TO GROUTED MASONRY. INDICATE CLEARLY IF ADDITIONAL GROUTING IS REQUIRED.
    - E. SUPPORTING MEMBERS HAVE BEEN DESIGNED FOR ALL LOADS IMPOSED BY THE STAIR SYSTEM. CHECK SUPPORTING MEMBERS FOR LOCAL EFFECTS AT CONNECTIONS AND PROVIDE STIFFENERS, DOUBLERS, ETC. AS NECESSARY.
    - F. DESIGN STAIRS FOR THE FOLLOWING LOADS:
        1. LIVE LOAD = 100 PSF OR 300 LB. POINT LOAD ON 4" SQUARE AREA
        2. DEAD LOAD = SELF WEIGHT PLUS 10 PSF SUPERIMPOSED DEAD LOAD
    - G. DESIGN STAIRS FOR THE FOLLOWING DEFLECTION CRITERIA:
        1. LIVE LOAD = L/480
        2. TOTAL LOAD = L/360

SPECIAL INSPECTIONS (DIVISION 01):

1. ALL SPECIAL INSPECTIONS SHALL BE COMPLETED IN COMPLIANCE WITH THE IBC EDITION LISTING IN THIS PLAN SET – CHAPTER 17.
2. ALL SPECIAL INSPECTIONS SHALL BE COORDINATED AND SCHEDULED BY THE CONTRACTOR REGARDLESS OF WHETHER CONTRACTED BY THE OWNER OR CONTRACTOR.
3. SPECIAL INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER, AOR, AND EOR WEEKLY (AT A MAXIMUM).
4. SPECIAL INSPECTIONS SHALL BE PROVIDED TO THE AHJ FOR COMPLIANCE.
5. ALL FAILING INSPECTION SHALL BE COORDINATED WITH THE AHJ AND EOR TO FACILITATE A TIMELY AND SATISFACTORY RESOLUTION.
6. COSTS FOR ADDITIONAL INSPECTIONS REQUIRED BECAUSE OF FAILING WORK COMPLETED BY THE CONTRACTOR MAY BE PASSED ONTO THE CONTRACTOR BY THE OWNER (ON OWNER-CONTRACTED PROJECTS) AT THE OWNER'S DISCRETION.
7. SPECIAL INSPECTIONS SCHEDULES FOR THE PROJECT ARE INCLUDED IN SECTION 01 4000 OF THE CONTRACT SPECIFICATIONS. IF NO SPECIFICATIONS ARE BEING UTILIZED FOR THE PROJECT, THOSE REQUIREMENTS WILL BE INDICATED BELOW:

A. STATEMENT OF COMPLIANCE:

A STATEMENT OF COMPLIANCE SHALL BE PREPARED BY THE SPECIAL INSPECTOR AT THE COMPLETION OF THE PROJECT INDICATING THAT ALL CONTRUCTION HAS BEEN INSPECTED PER THIS SECTION AND IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

B. STEEL CONSTRUCTION: STRUCTURAL STEEL FABRICATOR SHALL BE AISC CERTIFIED. THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUIDLING OFFICIAL STATING THAT WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS.

PERIODIC INSPECTIONS REQUIRED FOR:

- MATERIAL VERIFICATION. REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH STRENGTH BOLTS, NUTS, AND WELDING ELECTRODES.
- EMBEDMENTS: VERIFY DIAMETER, GRADE, TYPE, LENGTH, AND EMBEDMENT. SEE CONCRETE CONSTRUCTION FOR ANCHORS.
- VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS.
- STRUCTURAL STEEL WELDING: INSPECTION TASKS PRIOR TO WELDING FOR EACH WELDED JOINT OF MEMBER SPECIFIED IN AISC 360, TABLE N5.4-1, INSPECTION TASKS DURING WELDING FOR EACH WELDED JOINT OR MEMBER SPECIFIED IN AISC 360, TABLE N5.4-2, INSPECTION TASKS AFTER WELDING FOR EACH WELDED JOINT OR MEMBER SPCIFIED IN AISC 360, TABLE N5.4-3.
- NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS: COMPLETE PENETRATION WELDS WHEN REQUIRED BY AISC 360 N5.5B, WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360 APPENDIX 3 TABLE A3.2, FABRICATION'S NDT REPORTS WHEN FABRICATION PERFORMS NDT.
- STRUCTURAL STEEL BOLTING: INSPECTION TASKS PRIOR TO BOLTING SPECIFIED IN AISC 360 TABLE N5.6-1., INSPECTION TASKS AFTER BOLTING SPECIFIED IN AISC 360 TABLE N5.6-3.
- INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT: INSPECT SIZE, NUMBER, POSITIONING, AND WELDING OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH. PING TEST ALL SHEAR CONNECTORS WITH A 3 LB HAMMER, BEND TEST ALL QUESTIONABLE STUDS TO 15 DEGREES.
- MATERIAL VERIFICATION OF COLD FORMED STEEL DECK.
- CONNECTION OF COLD-FORMED STEEL DECK TO SUPPORTING STRUCTURE: INSPECT WELDING AND SIDE LAP FASTENING OF METAL ROOF AND FLOOR DECK IS IN CONFORMANCE WITH APPROVED SUBMITTAL.
- COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER: VERIFY TEMPORARY AND PERMENANT RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.
- OPEN-WEB STEEL JOIST: INSPECT INSTALLATION, FIELD WELDING, FIELD BOLTING, AND BRIDGING OF JOISTS IS IN CONFORMANCE WITH APPROVED SUBMITTAL.

CONTINUOUS INSPECTIONS REQUIRED FOR:

- INSPECTION TASKS DURING BOLTING SPECIFIED IN AISC 360 TABLE N5.6-2 INCLUDING: PRE-TENSIONED AND SLIP-CRITICAL JOINTS (TURN-OF-NUT WITH MATCHING MARKINGS, DIRECT TENSION INDICATOR, TWIST-OFF TYPE TENSION CONTROL BOLTS, TURN-OF-NUT WITHOUT MATCHING MARKINGS, CALIBRATED WRENCH), SNUG-TIGHT JOINTS.

C. CONCRETE CONSTRUCTION:

CONTRACTOR TO SUBMIT CERTIFIED MIX DESIGN IN ACCORDANCE WITH CONTRACT DOCUMENTS.

PERIODIC INSPECTIONS REQUIRED FOR:

- SIZE, SPACING, COVER, POSITIONING, AND GRADE OF REINFORCING STEEL AND PRESTRESSING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIAL. INSPECT BAR LAPS AND MECHANICAL SPLICES, VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.
- REINFORCING STEEL WELDING: VERIFICATION OF WELDABILITY OF STEEL OTHER THAN ASTM A706, SINGLE PASS FILLET WELDS < 5/16", ALL OTHER WELDS.
- SIZE, POSITIONING, AND EMBEDMENT OF ANCHOR RODS. INSPECT CONCRETE PLACEMENTS AND CONSOLIDATION AROUND ANCHORS.
- REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGNS. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
- INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
- FORMWORK FOR SHAPE, LINES, LOCATION, AND DIMENSIONS.
- CERIFTY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLAB.
- PERFORM FLOOR FLATNESS AND/OR LEVELNESS TESTING (ASTM E1155) FOR ALL SLAB-ON-GRADE AND ELEVATED SLAB PER SPECIFICATION.
- ANCHORS AND REINFORCING STEEL POST-INSTALLED IN HARDENED CONCRETE THAT ARE HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSION LOADS. INSPECTION REPORTS SHALL INCLUDE VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.
- TEST CONCRETE COMPRESSION STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR CONTENT (ASTM C231 OR C173) AND TEMPERATURE (ASTM C1064).
- PLACEMENT OF CONCRETE AND SHOTCRETE. VERIFY THAT CONCRETE THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.

ACCEPTABLE INSPECTION AGENTS: ACI-CCI, ICC-RCSI, ACI-CFTT, ACI-STT

D. MASONRY CONSTRUCTION:

PERIODIC INSPECTIONS REQUIRED FOR:

- COMPLIANCE WITH APPROVED SUMITTALS.
- VERIFICATION OF F'm PRIOR TO CONSTRUCTION
- PROPORTIONS OF SITE-MIXED MORTAR AND GROUT.
- GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES.
- CONSTRUCTION OF MORTAR JOINTS.
- PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES.
- GROUT SPACE PRIOR TO GROUTING.
- SIZE AND LOCATION OF STRUCTURAL MASONRY ELEMENTS.
- TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.
- PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGRESS).
- VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT.
- PLACEMENT OF GROUT.
- WELDING OF REINFORCEMENT.

ACCEPTABLE INSPECTION AGENTS: ICC-SMSI

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SPECIAL INSPECTIONS

S-001

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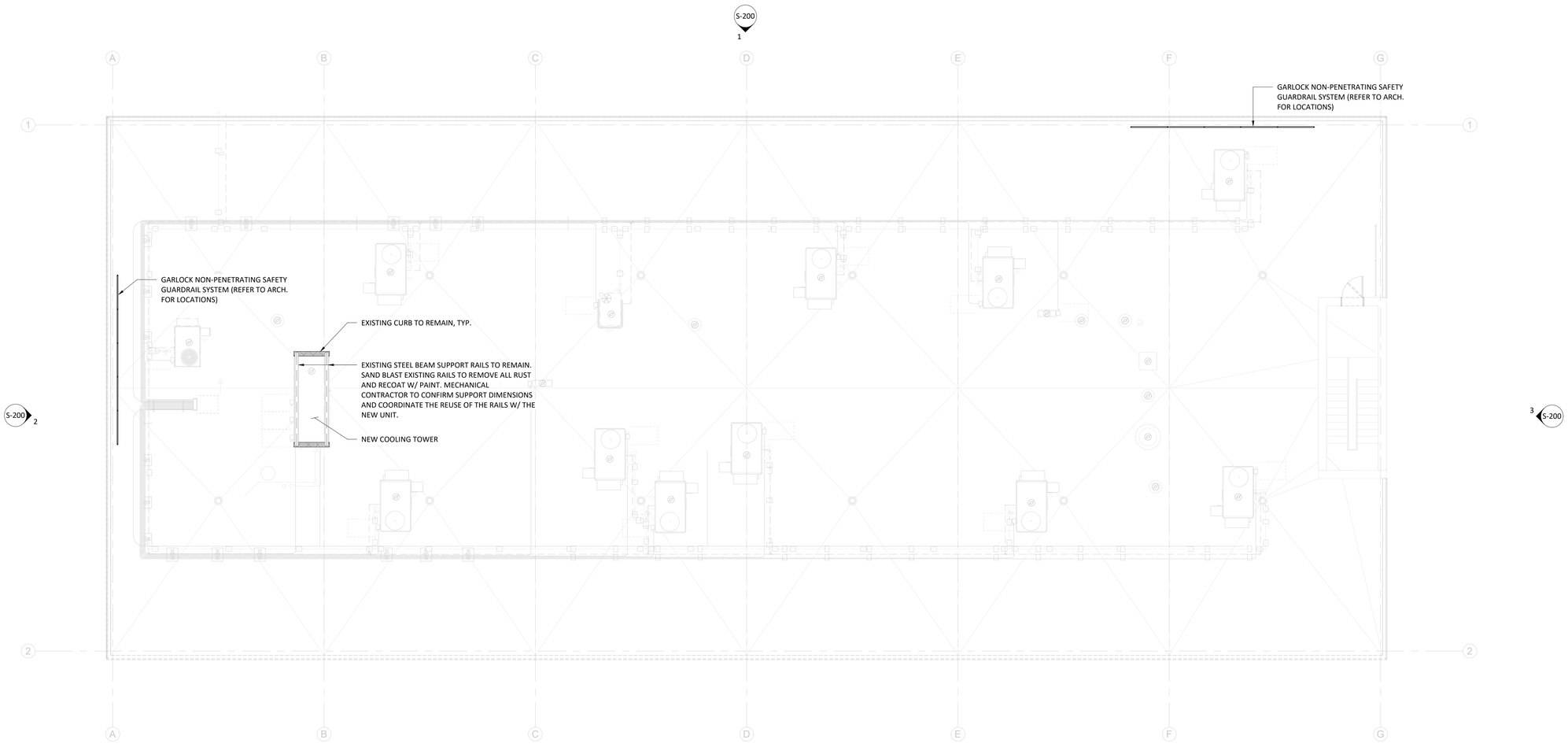

ROOF PLAN 1
1/8" = 1'-0" S-100

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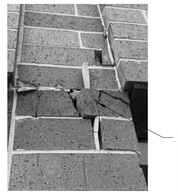
ROOF PLAN

S-100

COPE LINTEL PLATE TO BE FLUSH WITH NEW EXTERIOR FACE OF THE REVEAL FACADE.

LINTEL PLATE COPING 7 S-200
1 1/2" = 1'-0"

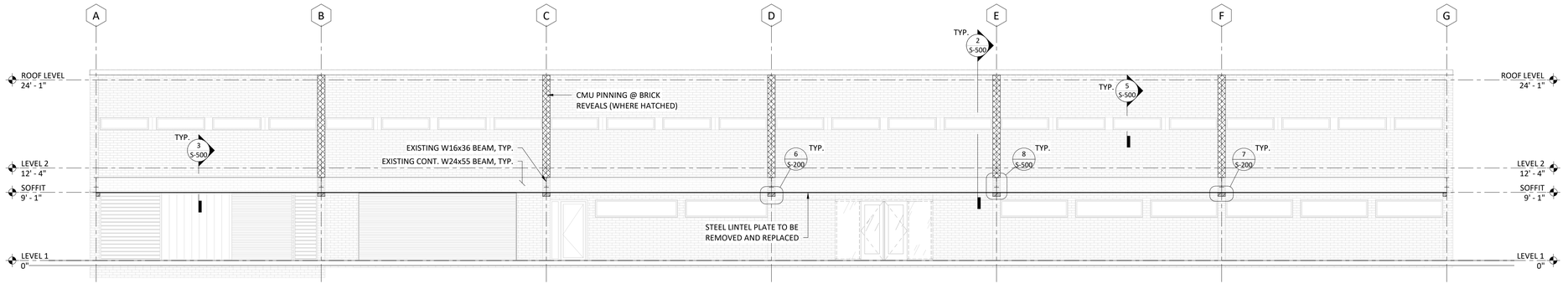


REMOVE SPALLED BRICK SECTIONS AND REPLACE. EXACT LOCATIONS OF REPLACEMENT TO BE FIELD DETERMINED. REFER TO DETAIL 8|S-500 FOR FURTHER REQUIREMENTS.

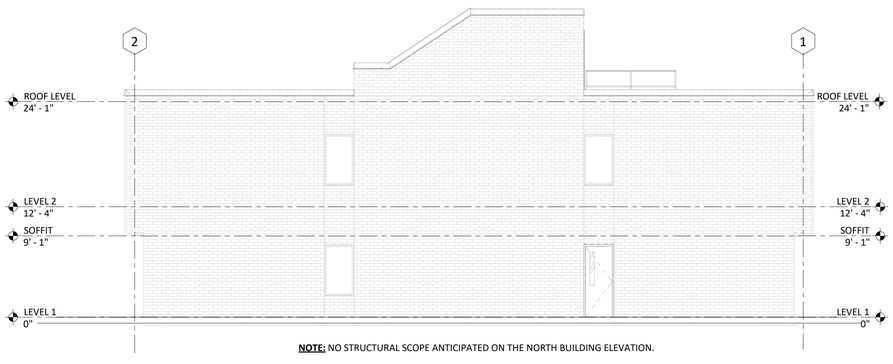
BRICK SPALLING @ BUILD-OUTS 6 S-200
1 1/2" = 1'-0"

REMOVE EXISTING STAIR RAIL AND REPLACE W/ (2) NEW RAILS, EACH SIDE OF STAIR. REFER TO DETAIL 6 | S-500 FOR BASE CONNECTION REQUIREMENTS

EXTG STAIR CONDITIONS 5 S-200
1" = 1'-0"

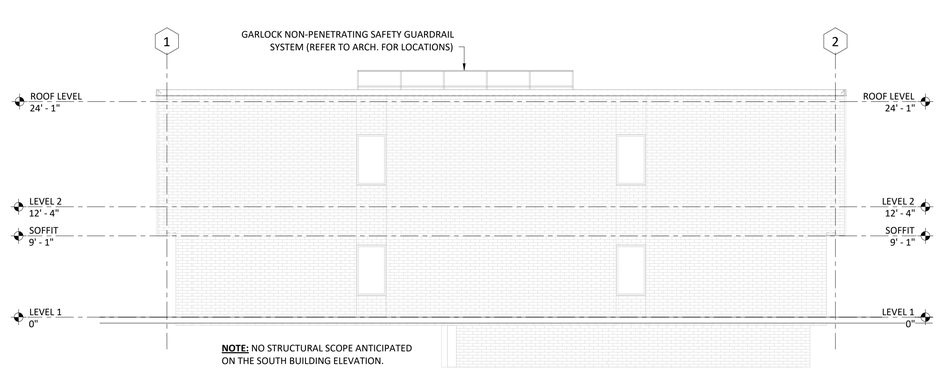


EAST ELEVATION 4 S-200
1/8" = 1'-0"



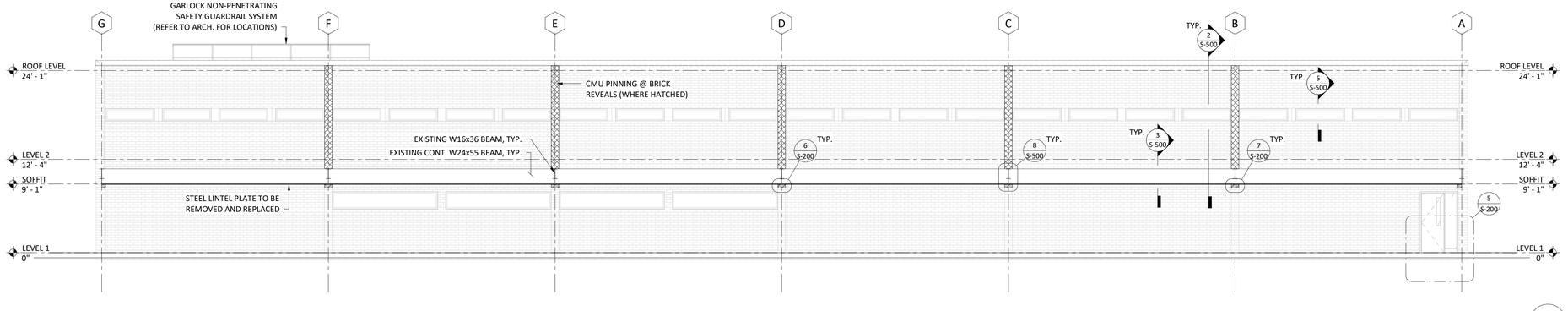
NOTE: NO STRUCTURAL SCOPE ANTICIPATED ON THE NORTH BUILDING ELEVATION.

NORTH ELEVATION 3 S-200
1/8" = 1'-0"



NOTE: NO STRUCTURAL SCOPE ANTICIPATED ON THE SOUTH BUILDING ELEVATION.

SOUTH ELEVATION 2 S-200
1/8" = 1'-0"



WEST ELEVATION 1 S-200
1/8" = 1'-0"

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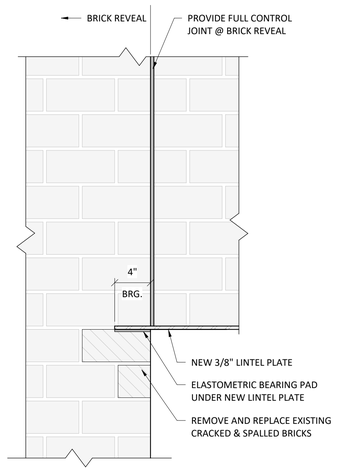
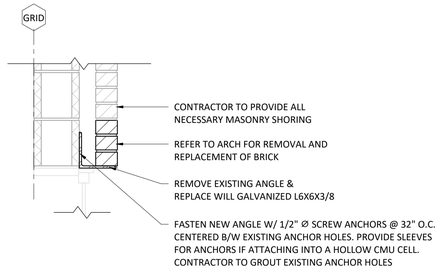
SHEET NAME
ELEVATIONS

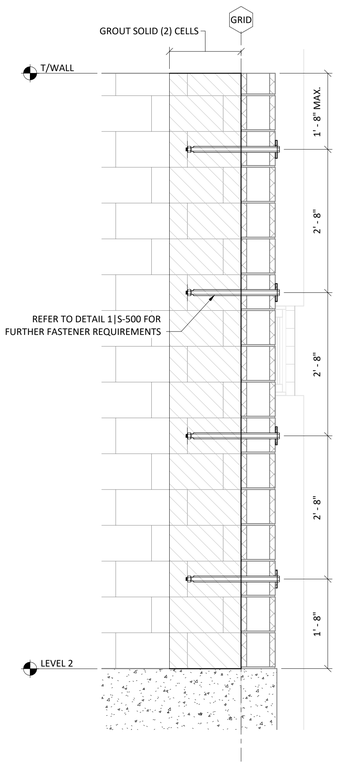
S-200



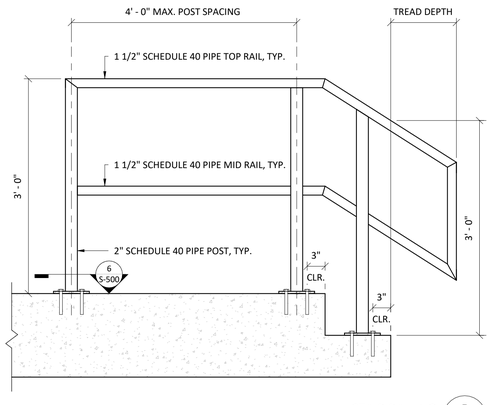
LINTEL PLATE BEARING — 8 / S-500
1 1/2" = 1'-0"



TYP. UPPER WINDOW LINTEL DETAIL — 5 / S-500
1" = 1'-0"

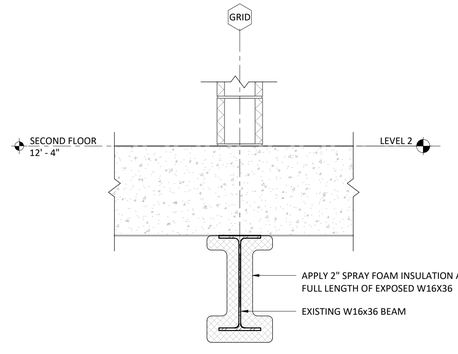


REVEAL ANCHOR SPACING DETAIL — 2 / S-500
3/4" = 1'-0"

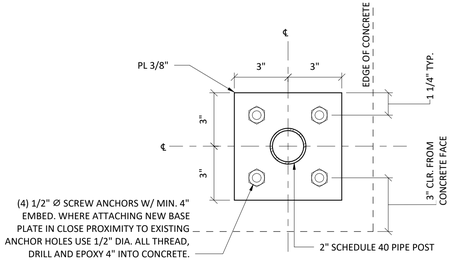


NOTE:
1. ALL HANDRAIL MATERIAL SHALL BE GALVANIZED WITH PAINTED FINISH.
2. CONTRACTOR TO FIELD VERIFY ALL RELEVANT EXISTING DIMENSIONS AND EXTENTS OF HANDRAIL.

STAIR RAILING — 7 / S-500
1" = 1'-0"



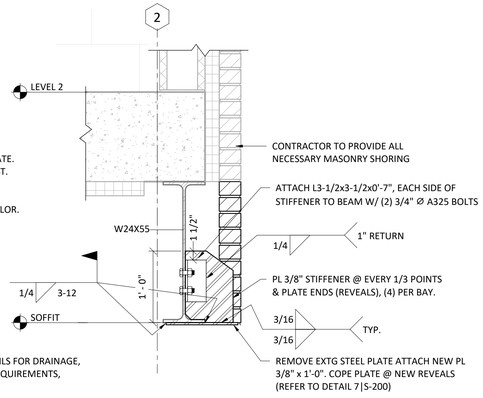
TYP. W16 INSULATION DETAIL — 4 / S-500
1" = 1'-0"



NOTE:
1. ALL HANDRAIL MATERIAL SHALL BE GALVANIZED WITH PAINTED FINISH.
2. SEAL ALL EXISTING ANCHOR HOLES IN EXISTING STOOP.

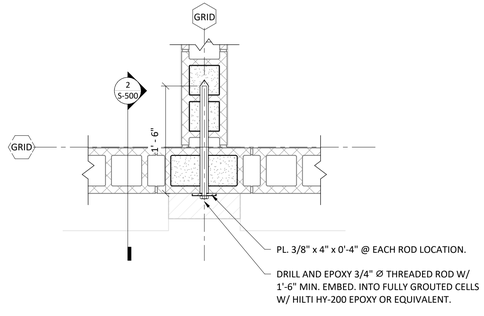
HANDRAIL BASEPLATE DETAIL — 6 / S-500
3" = 1'-0"

WORK TO BE COMPLETED:
1. CONTRACTOR TO REMOVE EXISTING LINTEL PLATE.
2. SANDBLAST BEAM TO REMOVE ALL VISIBLE RUST.
3. ATTACHED NEW LINTEL PLATE.
4. APPLY HIGH PERFORMANCE PRIMER TO ALL UNPAINTED STEEL. REFER TO ARCH FOR PAINT COLOR.
5. APPLY 2" SPRAY FOAM AROUND ENTIRE BEAM.



NOTE: REFER TO ARCH DETAILS FOR DRAINAGE, FLASHING, & INSULATION REQUIREMENTS,

TYP. CANTILEVER EDGE DETAIL — 3 / S-500
1" = 1'-0"



NOTE:
1. CONTRACTOR TO VERIFY IF CMU CELLS INDICATED ABOVE ARE GROUTED PRIOR TO EPOXY AND THREADED ROD INSTALLATION.
2. REFER TO DETAIL 5|A-501 FOR REVEAL FINISH REQUIREMENTS.

TYP. ANCHOR TIEBACK DETAIL @ REVEAL — 1 / S-500
1" = 1'-0"

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AXIOM CONSULTANTS
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Iowa City, IA 52240

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITAL ST.
IOWA CITY, IA 52240

ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/2025

DESCRIPTION	DATE

DRAWN BY	CS
CHECKED BY	JS
PROJECT NO.	240123

SHEET NAME
STRUCTURAL DETAILS

S-500

CONTRACTOR ABBREVIATION KEY

G.C.	GENERAL CONTRACTOR	F.P.C.	FIRE PROTECTION CONTRACTOR
M.C.	MECHANICAL CONTRACTOR	FDC	FIRE DEPARTMENT CONNECTION
P.C.	PLUMBING CONTRACTOR	L.C.	LANDSCAPE CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR	F.S.C.	FOOD SERVICE CONTRACTOR
C.C.	CIVIL CONTRACTOR		

ABBREVIATIONS

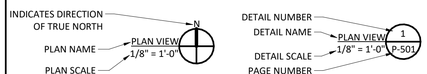
Ø	ROUND	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AFF	ABOVE FINISHED FLOOR	MBH	ONE THOUSAND BTU PER HOUR
AP	ACCESS PANEL	MFR	MANUFACTURER
BTUH	BRITISH THERMAL UNITS PER HOUR	MIN	MINIMUM
CD	CEILING DIFFUSER	MUA	MAKE-UP/AIR
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CLG	CEILING	NO	NORMALLY OPEN
DB	DRY BULB	NTS	NOT TO SCALE
DN	DOWN	OA	OUTSIDE AIR
EAT	ENTERING AIR TEMPERATURE	PD	PRESSURE DROP
EG	EXHAUST GRILLE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
EA	EXHAUST AIR	RA	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FD	FIRE DAMPER	RG	RETURN GRILLE
FPM	FEET PER MINUTE	RH	RELATIVE HUMIDITY
FS	FLOOR SINK	RLA	RELIEF AIR
FT	FOOT/FEET	SF	SQUARE FOOT
GAL	GALLON	SA	SUPPLY AIR
GC	GENERAL CONTRACTOR	SD	SMOKE DAMPER
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
HP	HORSE POWER	T	THERMOSTAT
IN	INCH	TG	TRANSFER GRILLE
LB	POUND	TYP	TYPICAL
LAT	LEAVING AIR TEMPERATURE	VAV	VARIABLE AIR VOLUME
LP	LOW PRESSURE	WB	WET BULB
LPG	LIQUEFIED PETROLEUM GAS		

EQUIPMENT ABBREVIATIONS

AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	HWP	HEATING WATER PUMP
B	BOILER	ERV	ENERGY RECOVERY UNIT
CH	CHILLER	HRU	HEAT RECOVERY UNIT
CT	COOLING TOWER	PRV	POWER ROOF VENTILATOR
CUH	CABINET UNIT HEATER	RF/EF	RETURN/EXHAUST FAN
EF	EXHAUST FAN	RTU	ROOFTOP UNIT
EDC	ELECTRIC DUCT COIL	SP	SUMP PUMP
ET	EXPANSION TANK	UH	UNIT HEATER

GENERAL VIEW SYMBOLS & KEY

- 1 / ITC — REVISION NUMBER / REVISION DESCRIPTOR - REFER TO REVISION LOG FOR FULL DESCRIPTION
- POINT WHERE NEW CONNECTS TO EXISTING
- 1 — KEYNOTE
- BREAK/CONTINUATION LINE
- DEMOLITION HATCH
- EQUIPMENT TO BE RELOCATED HATCH



PIPING SYSTEM ABBREV.

CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CD	CONDENSATE DRAIN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
WWS	WELL WATER SUPPLY
WWR	WELL WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HPLR	HEAT PUMP LOOP RETURN
G	NATURAL GAS
PG	PROPANE GAS
RL	REFRIGERANT LIQUID
RG	REFRIGERANT GAS
HPS	HIGH PRESSURE STEAM
LPS	LOW PRESSURE STEAM

DUCT SYMBOLS

- 18X12 — RECTANGULAR DUCT SIZE TAG (WIDTH X HEIGHT)
- 18/12 — OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
- 18"ø — ROUND DUCT SIZE TAG (DIAMETER)
- DUCT SIZE — EXISTING DUCT
- 18X12 SA — SUPPLY AIR (SA)
- 18X12 RA — RETURN AIR (RA)
- 18X12 OA — OUTSIDE AIR (OA)
- 18X12 EA — EXHAUST AIR (EA)
- 18X12 GEA — GREASE EXHAUST AIR (GEA)
- 16X12 — ACOUSTICAL LINING DUCT DIMENSIONS FOR NET FREE AREA
- FLEX DUCT
- HIDDEN DUCT - DASHED DUCT BELOW SOLID DUCT
- DUCT TAP WITH BOOT AND MANUAL VOLUME DAMPER
- 45° MANUAL VOLUME DAMPER (MVD)
- BDD — BACKDRAFT DAMPER
- FD/SD — FIRE DAMPER (FD); SMOKE DAMPER (SD); COMBINATION FIRE/SMOKE DAMPER (FD/SD)
- M — MOTOR OPERATED DAMPER
- AP / AD — DUCT ACCESS PANEL (AP) SIDEWALL DUCT ACCESS DOOR (AD)
- DUCT ELBOW WITH TURNING VANES
- RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISER
- RECTANGULAR SUPPLY/OUTSIDE AIR DUCT DROP
- ROUND SUPPLY/OUTSIDE AIR DUCT RISER
- ROUND SUPPLY/OUTSIDE AIR DUCT DROP
- RECTANGULAR RETURN AIR DUCT RISER
- RECTANGULAR RETURN AIR DUCT DROP
- ROUND RETURN AIR DUCT RISER
- ROUND RETURN AIR DUCT DROP
- RECTANGULAR EXHAUST AIR DUCT RISER
- RECTANGULAR EXHAUST AIR DUCT DROP
- ROUND EXHAUST AIR DUCT RISER
- ROUND EXHAUST AIR DUCT DROP
- S / R — STANDARD BRANCH FOR SUPPLY & RETURN - 45°
- R — INCLINED RISE (R) OR DROP (D) ARROW IN DIRECTION OF AIRFLOW
- R / W — RADIUSED ELBOW - R ≥ 1.5 x W
- GRILLE OR DIFFUSER ON SIDE OF DUCT
- GRILLE OR DIFFUSER BELOW DUCT
- A / 3A — TRANSITION PIECE

PIPING SYMBOLS

- MANUAL ISOLATION VALVE
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- ANGLE GATE VALVE
- BALANCING VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- CIRCUIT SETTER
- BALL VALVE
- BUTTERFLY VALVE
- STRAINER
- UNION
- CHECK VALVE
- CAP
- PLUG VALVE
- FLEXIBLE PIPE CONNECTION
- DUCT SOUND ATTENUATOR
- PIPE RISER
- PIPE DROP
- INLINE PUMP
- PIPE FLOW DIRECTION ARROW
- FLOW DIRECTION IN PIPE
- FLEXIBLE CONNECTION
- PRESSURE/TEMPERATURE (P/T) TEST PLUG
- M — METER
- PRESSURE GAUGE
- AUTOMATIC AIR VENT
- MANUAL AIR VENT W/ VALVE
- DRAIN W/ HOSE CONNECTION, CAP, & VALVE
- P — PRESSURE SENSOR W/ WELL
- T — TEMPERATURE SENSOR W/ WELL
- THERMOMETER W/ WELL (FILLED TYPE)
- DP — DIFFERENTIAL PRESSURE SENSOR
- UNION / FLANGE
- SHUTOFF VALVE, NORMALLY OPEN
- SHUTOFF VALVE, NORMALLY CLOSED
- BALANCING VALVE
- CONTROL VALVE, TWO-WAY
- CHECK VALVE
- SAFETY RELIEF VALVE
- "WYE" STRAINER W/ SHUTOFF VALVE AND HOSE CONNECTION CAP UNION / FLANGE.
- ELECTRICAL PANEL SHOWN FOR COORDINATION

HVAC SYMBOLS

- T — THERMOSTAT
- TS — TEMPERATURE SENSOR
- H — HUMIDISTAT
- SD — SMOKE DETECTOR
- CO_2 — CARBON DIOXIDE (CO_2) SENSOR
- CEILING SUPPLY DIFFUSER
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE
- LINEAR SLOT DIFFUSER WITH BOOT

DIFFUSERS, REGISTERS, AND GRILLES TAG

- CD-1 — DIFFUSER TYPE SEE SCHEDULE
- 10/350 — AIRFLOW (CFM)
- DUCT CONNECTION SIZE
- RG-1 — DIFFUSER TYPE SEE SCHEDULE
- 12X10/250 — AIRFLOW (CFM)
- DUCT CONNECTION SIZE
- LD-1 — DIFFUSER TYPE SEE SCHEDULE
- 12X10/250 — AIRFLOW (CFM)
- DUCT CONNECTION SIZE

AIR TERMINAL UNIT (VAV BOX) TAG

- VAV-X-Y
- "Y" REPRESENTS ROOM VAV SERVES / IS INSTALLED
- "X" REPRESENTS CAPACITY/TYPE

HVAC GENERAL NOTES

1. DIFFUSERS, REGISTERS AND GRILLE LOCATIONS SHALL BE COORDINATED WITH LOCATIONS OF LIGHTS, SPRINKLER HEADS, ARCHITECTURAL FEATURES, STRUCTURAL ELEMENTS, ETC.
2. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
3. CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" AFF UNLESS NOTED OTHERWISE.
4. ALIGN THERMOSTATS WITH LIGHT SWITCHES WHEN IN CLOSE PROXIMITY TO EACH OTHER.
5. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
6. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
7. MANUAL VOLUME DAMPERS SHALL BE PROVIDED ON ALL SUPPLY, RETURN AND EXHAUST BRANCH DUCTS.
8. ALL DUCTWORK, UNLESS OTHERWISE NOTED, SHALL BE 1/2" PRESSURE CLASS PER SMACNA.
9. SUPPORT ALL DUCTWORK IN ACCORDANCE WITH **2021 INTERNATIONAL MECHANICAL CODE, IMC 2021.** ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE.
10. SUPPORT ALL PIPING IN ACCORDANCE WITH **2021 INTERNATIONAL MECHANICAL CODE, IMC 2021.** ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE.
11. ALL DUCTWORK INSTALLED IN UNCONDITIONED SPACE MUST BE INSULATED PER **IECC 2012** REQUIREMENTS. CONCEALED DUCTWORK MAY BE EXTERNALLY INSULATED WITH FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH ACOUSTICAL DUCT LINING.
12. ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS, RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAXIMUM LENGTH OF FLEXIBLE DUCT PER RUNOUT TO BE 5'-0", UNLESS OTHERWISE NOTED.
13. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
14. PROVIDE A MIN. 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT, SUCH AS AIR HANDLING UNITS, PUMPS, AND BOILERS. PAD SHALL EXTEND MIN. 6" BEYOND ALL SIDES OF EQUIPMENT.
15. MC SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH LIST.
16. INSTALL, SUPPORT, AND BRACE ALL HVAC DUCTWORK AND ACCESSORIES PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSI/SMACNA 006-2006 AND "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" BY SMACNA, ANSI/SMACNA 001-2008.
17. MAINTAIN MINIMUM SEPARATION BETWEEN OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING AND OTHER ELEMENTS AS REQUIRED AND AS FOLLOWS:
    A. PLUMBING VENTS AND EXHAUST OUTLETS: 10'-0" SEPARATION
    B. ENVIRONMENTAL AIR OUTLETS AND DOMESTIC DRYER VENTS: 3'-0" SEPARATION
18. CONDENSATE FROM COOLING COILS SHALL BE ROUTED TO NEAREST FLOOR DRAIN OR OTHER ACCEPTABLE TERMINATION. REFER TO PLANS FOR SIZING AND LOCATION OF THE TERMINATION FOR THE CONDENSATE DRAIN.
19. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR PLUMBING AND MECHANICAL PIPING WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
20. REFRIGERANT PIPING FOR COOLING COIL SHALL BE INSULATED PER **IECC 2012** STANDARDS.
21. PROVIDE MANUAL SHUT-OFF VALVE FOR NATURAL GAS PIPING, IN AN ACCESSIBLE LOCATION.
22. PROVIDE DIRT LEG IN NATURAL GAS PIPING CONNECTION TO EQUIPMENT. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
23. PROVIDE PRESSURE REGULATING VALVE FOR ALL GAS-FIRED EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

PROJECT GENERAL NOTES

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN SPACE AND WITHIN CLOSE PROXIMITY OF SPACE.
5. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE OWNERSHIP CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY, AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE LAYOUT OF EQUIPMENT, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN MINIMUM 3'-0" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS.
16. DO NOT ROUTE DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6-INCH BEYOND ALL SIDES OF EQUIPMENT.
18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
19. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
20. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
21. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
22. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE **INTERNATIONAL BUILDING CODE** AND **INTERNATIONAL MECHANICAL CODE**.
23. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.
24. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
25. LOCATE DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.
26. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AND SHALL BE U.L. LISTED.
27. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
28. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
29. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
30. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
31. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
32. LOCATIONS OF PIPING, DUCTWORK, AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
33. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
34. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

APPLICABLE CODES

1. INTERNATIONAL BUILDING CODE 2024, IBC-2024
2. INTERNATIONAL MECHANICAL CODE 2024, IMC-2024
3. INTERNATIONAL ENERGY CONSERVATION CODE 2012, IECC-2012
4. NATIONAL ELECTRICAL CODE 2020, NEC-2020
5. UNIFORM PLUMBING CODE 2024, UPC-2024
6. NFPA 90A - STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
7. ANY AND ALL AMENDMENTS TO THE CODE BY THE STATE OF IOWA AND THE LOCAL AHJ

NOT FOR CONSTRUCTION

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA, 52240

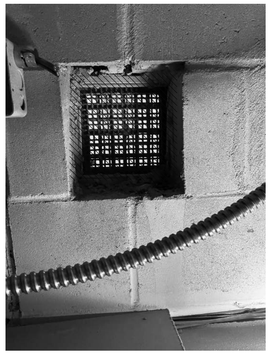
ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/25
DESCRIPTION	DATE

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	10271-10004

SHEET NAME
MECHANICAL NOTES & SYMBOLS

M-000



ISOLATION TRANSFER GRILLE DEMO DETAIL
NTS

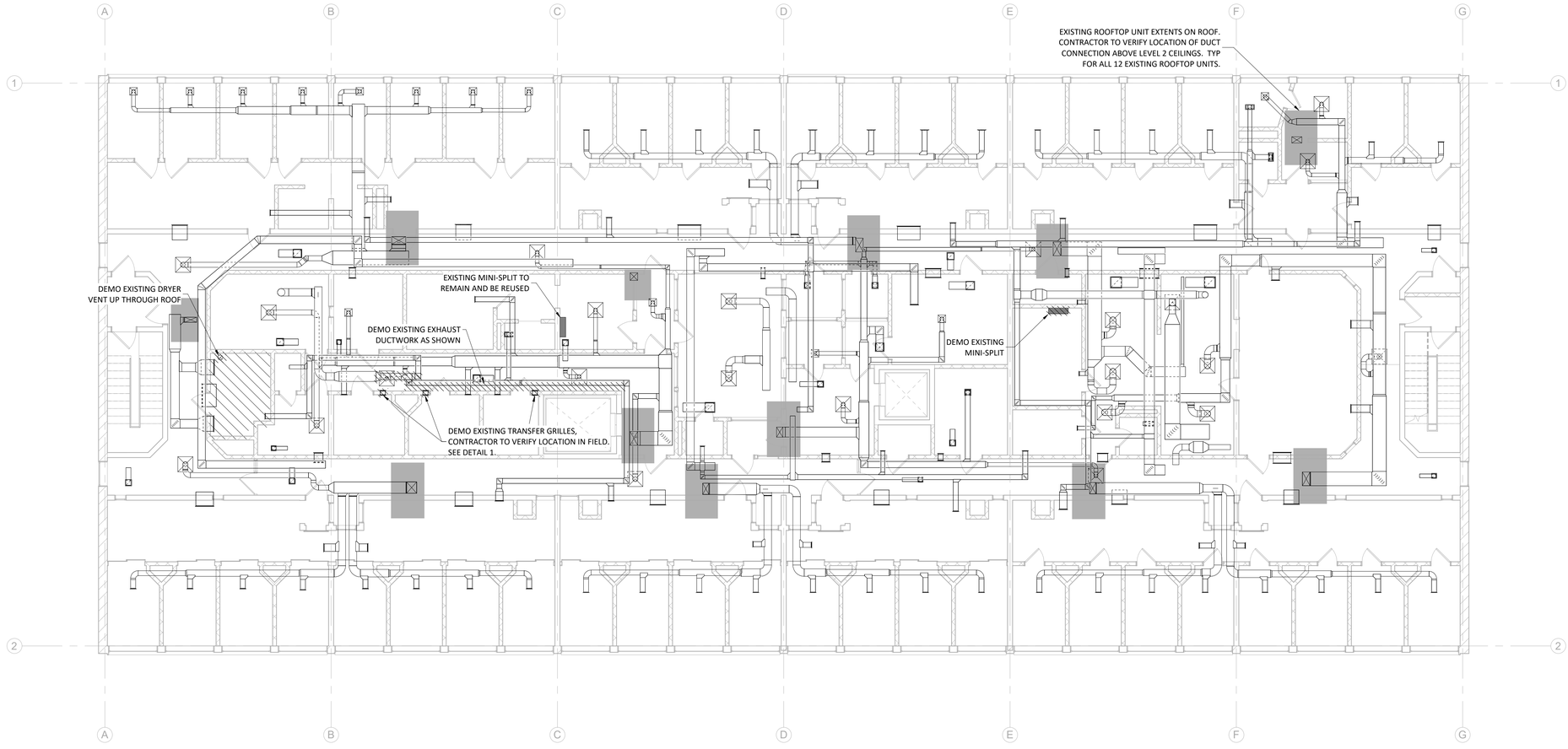
1
MD101

GENERAL MECHANICAL NOTES:

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. EXISTING SYSTEM COMPONENTS AND DUCTWORK SHOWN FOR COORDINATION PURPOSES.
3. THE PLANS INDICATE ONLY AFFECTED EQUIPMENT IN THE DESIGNATED DEMOLITION AREAS OF THIS PROJECT ALTHOUGH NOT EVERY ITEM MAY HAVE BEEN SHOWN. REMOVE NECESSARY ITEMS AS REQUIRED BY THIS DEMOLITION WHETHER SHOWN ON PLANS OR NOT.
4. DEMO ALL EXISTING ROOFTOP UNIT CONTROLS (TSTATS) AND ASSOCIATED WIRING.
5. DEMO OF EXISTING MINI-SPLIT SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, ALL PIPING AND INSULATION (REFRIGERANT AND CONDENSATE), POWER CONNECTIONS AND ASSOCIATED WIRING, CONTROLS (TSTATS) AND ASSOCIATED WIRING.
6. DEMO OF EXISTING DRYER VENT SHALL BE FROM THE CONNECTION TO THE DRYER UP THROUGH THE ROOF.

MECHANICAL KEYNOTES:

XXXX



LEVEL 2 MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

N

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AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

AXIOM CONSULTANTS
300 S. CLINTON ST. #200
IOWA CITY, IOWA 52240

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/25

DESCRIPTION	DATE

DRAWN BY	LM
CHECKED BY	Checker
PROJECT NO.	10271-10004

SHEET NAME
LEVEL 2 MECHANICAL DEMOLITION PLAN

MD101

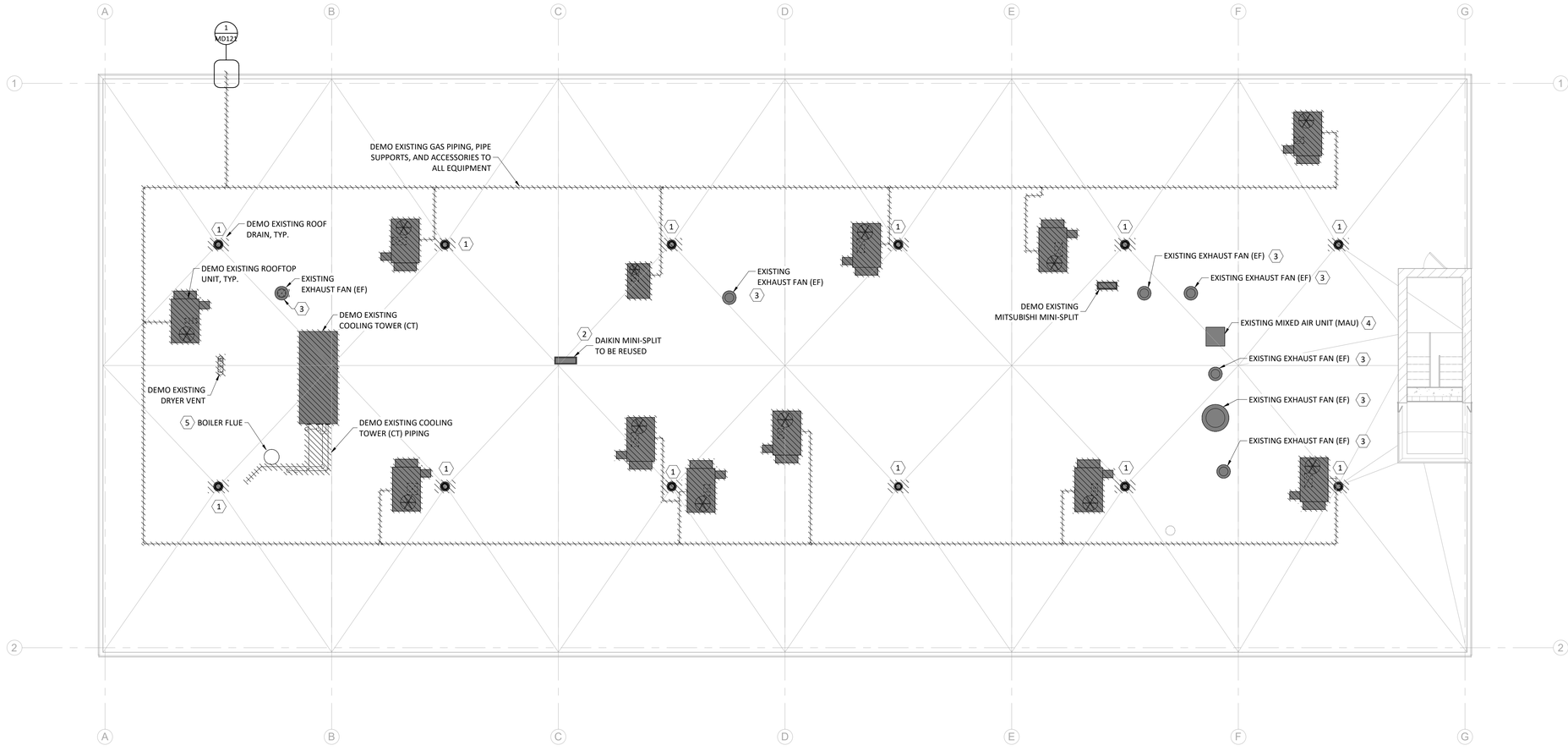
EXISTING METER PIPING DEMO DETAIL 1 MD121
NTS

GENERAL MECHANICAL DEMOLITION NOTES:

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. EXISTING SYSTEM COMPONENTS AND DUCTWORK SHOWN FOR COORDINATION PURPOSES.
3. THE PLANS INDICATE ONLY AFFECTED EQUIPMENT IN THE DESIGNATED DEMOLITION AREAS OF THIS PROJECT ALTHOUGH NOT EVERY ITEM MAY HAVE BEEN SHOWN. REMOVE NECESSARY ITEMS AS REQUIRED BY THIS DEMOLITION WHETHER SHOWN ON PLANS OR NOT.
4. DEMO OF EXISTING ROOFTOP UNITS SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, CURBS, PIPING CONNECTIONS, POWER AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.
5. DEMO OF EXISTING MINI-SPLIT SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, EQUIPMENT SUPPORTS, ALL PIPING AND INSULATION (REFRIGERANT AND CONDENSATE), POWER CONNECTIONS AND ASSOCIATED WIRING, CONTROLS (TSTATS) AND ASSOCIATED WIRING.
6. DEMO OF EXISTING DRYER VENT SHALL BE FROM THE CONNECTION TO THE DRYER UP THROUGH THE ROOF.
7. DEMO OF EXISTING COOLING TOWER (EVAPORATIVE COOLER) SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, ALL EQUIPMENT SUPPORTS, ALL PIPING AND INSULATION, POWER CONNECTIONS AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.
8. NOTE ON DEMO OF ROOF DRAINS.
9. NOTE ON DEMO OF NATURAL GAS PIPING AND SUPPORTS.

MECHANICAL KEYNOTES:

1. DEMO EXISTING ROOF DRAINS. CONTRACTOR SHALL PROTECT STORM PIPING FROM DEBRIS DURING CONSTRUCTION
2. EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REUSED. REMOVE CU AND ANY PIPING, POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
3. EXISTING ROOF EXHAUST FANS (EF) TO BE REUSED. REMOVE EF AND POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
4. EXISTING MAKUP AIR UNIT (MAU) TO BE REUSED. REMOVE MAU AND POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
5. EXISTING BOILER FLUE AND WEATHER CAP TO BE REUSED. PROTECT FLUE AND CAP DURING ROOF REPLACEMENT.



ROOF MECHANICAL DEMO PLAN
1/8" = 1'-0"

N

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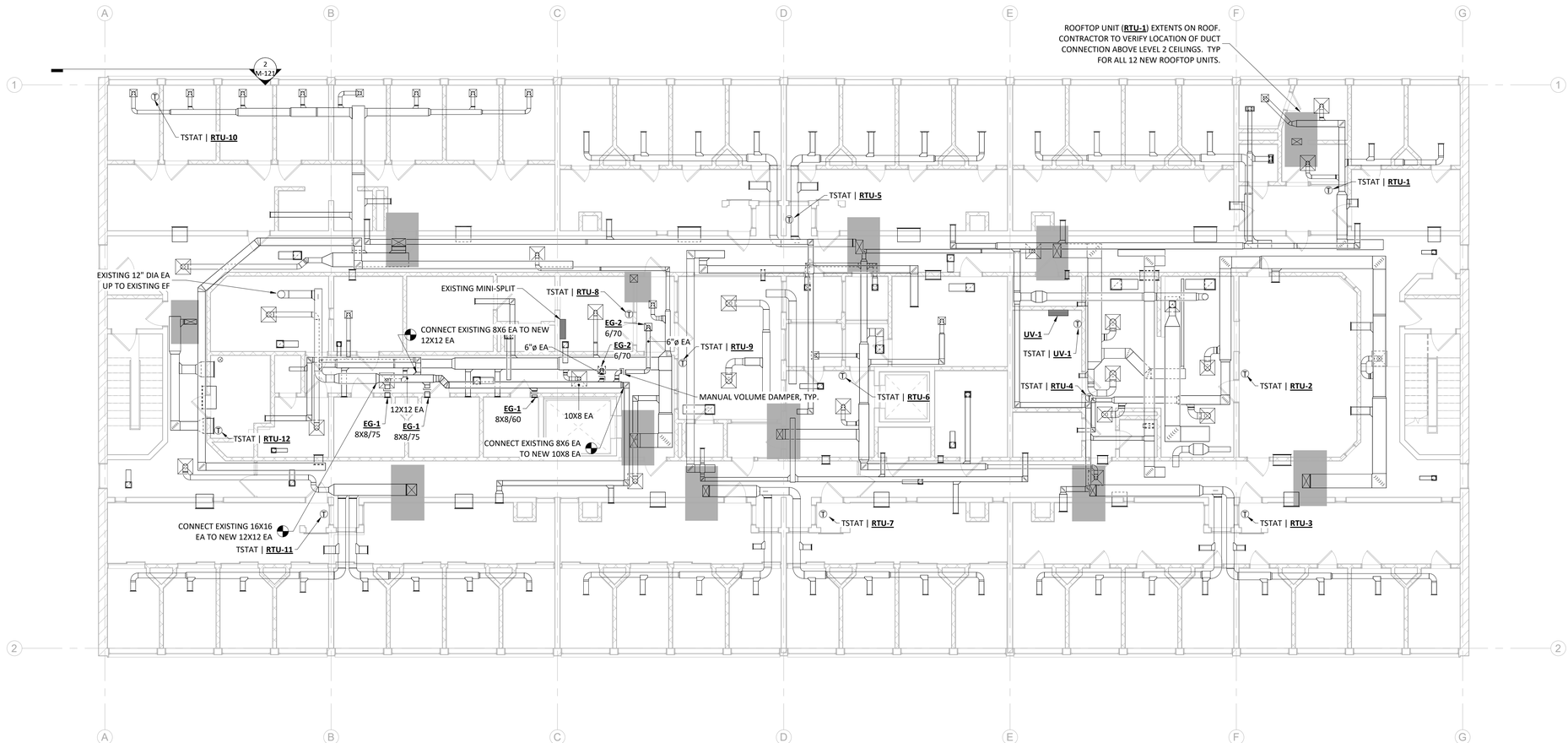
ROOF MECHANICAL DEMOLITION PLAN

MD121

GENERAL MECHANICAL NOTES:

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. COORDINATE ALL DUCTWORK AND PIPE ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCE SPACE.
3. MAINATAIN SERVICE CLEARANCE REQUIREMENTS AROUND ALL MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR DUCTWORK IN CLEARANCE SPACE.
4. M.C. COORDINATE REFRIGERANT LINE ROUTING FROM CONDENSING UNITS TO THE RESPECTIVE INDOOR UNITS.
5. MANUAL VOLUME DAMPERS SHALL BE PROVIDED ON ALL NEW ADDED SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS.
6. M.C. SHALL COORDINATE ANY AREA WHERE ACCESS TO EQUIPMENT OR HVAC COMPONENTS ARE REQUIRED TO ALLOW ACCESS FOR MAINTENANCE OR INSPECTION WITH G.C.
7. COORDINATE NEW ROOFTOP UNIT (RTU) LOCATION WITH EXISTING OPENINGS THROUGH ROOF. NEW RTUS SHALL BE PROVIDED WITH CURB ADAPTERS, AS NECESSARY, TO ACCOMMODATE THE EXISTING OPENINGS.



LEVEL 2 MECHANICAL PLAN
1/8" = 1'-0"

N

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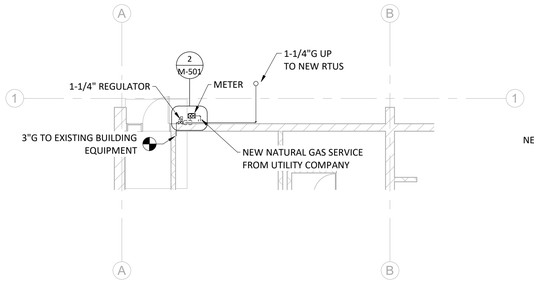
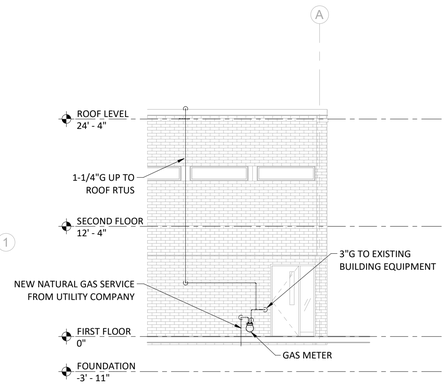
SHEET NAME
LEVEL 2 MECHANICAL PLAN

M-102





GAS PIPING SUPPORT

SCHED 40 STEEL PIPE SIZE ("Ø)	MAXIMUM ALLOWED SUPPORT SPACING (FT)
1/2"	≤ 6 FEET
3/4" TO 1"	≤ 8 FEET
≥ 1-1/4" (HORIZONTAL)	≤ 10 FEET
≥ 1-1/4" (VERTICAL)	EVERY LEVEL

1. NFPA 54, 7.2.6.2
2. INTERIOR HUNG PIPING SHALL BE SUSPENDED FROM STRUCTURE.
3. EXTERIOR PIPING ON GRADE SHALL BE SUPPORTED WITH APPROVED FIXED BLOCKING APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

GENERAL NATURAL GAS PIPING NOTES:

1. NATURAL GAS PIPING SIZED PER UNIFORM PLUMBING CODE 2024, UPC 2024 (TABLE 1215.2(4): INLET PRESSURE 2.0 PSI | PRESSURE DROP 1 PSI.
   A. ASSUMED DEVELOPED LENGTH OF PIPING = 300 FEET.
   B. NEW HVAC EQUIPMENT NATURAL GAS LOAD = 1,209 CFH.
   C. TOTAL BUILDING NATURAL GAS LOAD (EXISTING + NEW) = 2,380 CFH.
      a. HEATING VALUE OF NG ASSUMED TO BE: 1,100 BTU/HOUR = 1 CFH.
2. PROVIDE EACH NATURAL GAS-FIRED EQUIPMENT WITH MANUAL GAS SHUTOFF VALVE AND PRESSURE REGULATOR.
3. NATURAL GAS PRESSURE REGULATORS SHALL BE VENTED TO THE EXTERIOR PER MANUFACTURER'S REQUIREMENTS.
4. GAS PIPING THAT CROSSES THE WALK-PATH SHALL BE WRAPPED WITH HIGH-VISIBILITY TAPE TO ALERT STAFF.
5. GAS PIPING SHALL BE SUPPORTED AS SHOWN IN INCLUDED TABLE.

GENERAL MECHANICAL NOTES:

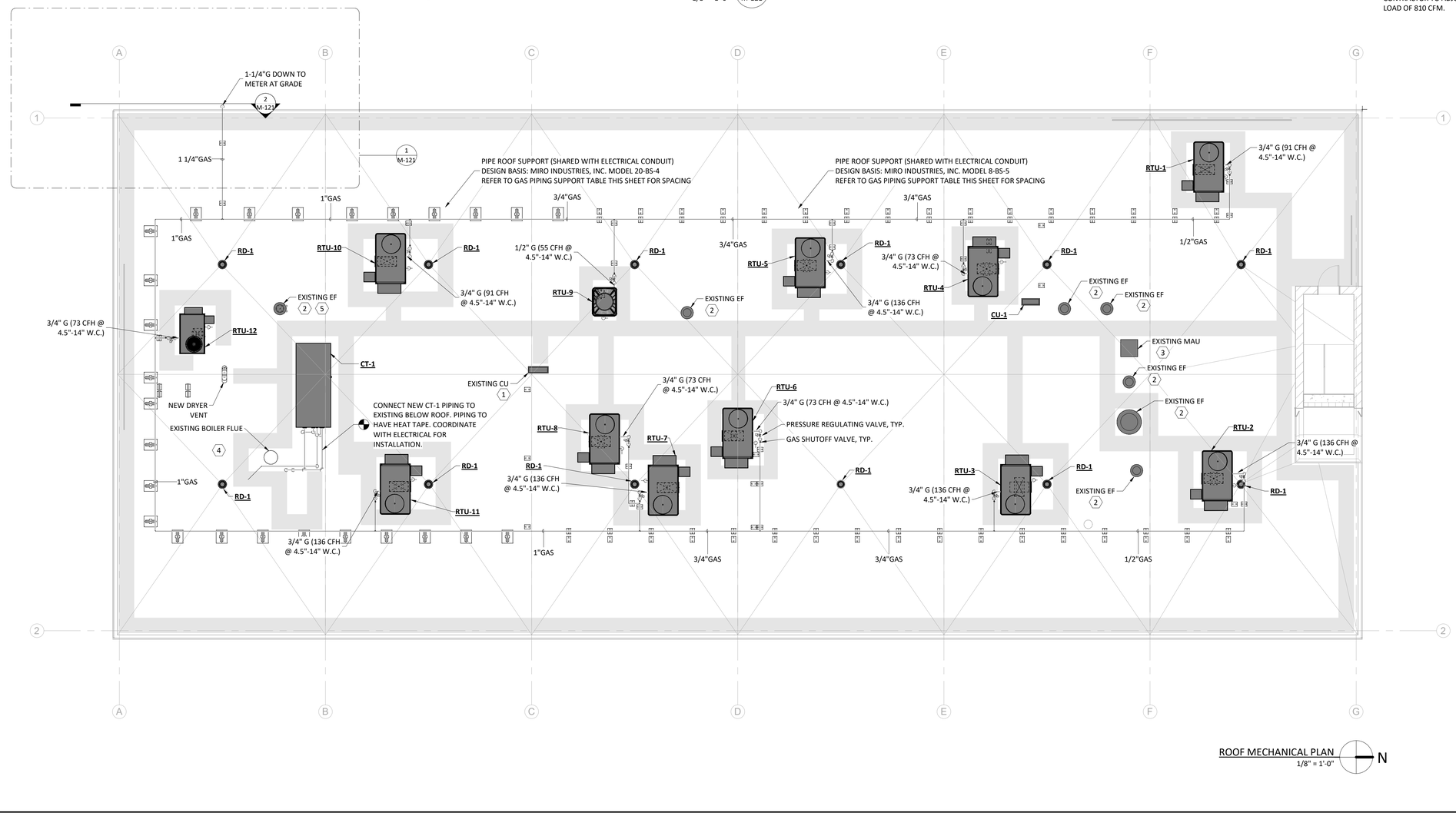
1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. COORDINATE ALL DUCTWORK AND PIPE ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCE SPACE.
3. MAINTAIN SERVICE CLEARANCE REQUIREMENTS AROUND ALL MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR DUCTWORK IN CLEARANCE SPACE.
4. M.C. COORDINATE REFRIGERANT LINE ROUTING FROM CONDENSING UNITS TO THE RESPECTIVE UNITS.
5. M.C. SHALL COORDINATE ANY AREA WHERE ACCESS TO EQUIPMENT OR HVAC COMPONENTS ARE REQUIRED TO ALLOW ACCESS FOR MAINTENANCE OR INSPECTION WITH G.C.
6. COORDINATE NEW RTU LOCATION WITH EXISTING OPENINGS THROUGH ROOF. NEW RTUS SHALL BE PROVIDED WITH CURB ADAPTERS, AS NECESSARY, TO ACCOMMODATE THE EXISTING OPENINGS.
7. COORDINATE LOCATION OF ROOFTOP EQUIPMENT WITH ALL VENTS.
8. ROOFTOP EQUIPMENT SHALL BE INSTALLED TO NOT BLOCK ROOF ACCESS DOORS WITH EQUIPMENT.
9. MAINTAIN 10'-0" CLEARANCE BETWEEN ALL ROOFTOP UNITS, VENTILATION AIR INTAKE, AND ANY SOURCE OF VENT OR EXHAUST.

MECHANICAL KEYNOTES:

1. EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REINSTALLED PRIOR TO THE ROOF REPLACEMENT. PROVIDE NEW CONDENSING UNIT SUPPORT RACK THAT IS INSTALLED PRIOR TO EPDM ROOFING.
2. EXISTING ROOF EXHAUST FANS (EF) TO BE REINSTALLED PRIOR TO THE ROOF REPLACEMENT. CONTRACTOR TO VERIFY IF NEW ROOF CURB IS REQUIRED.
3. EXISTING MAKEUP AIR UNIT (MAU) TO BE REINSTALLED PRIOR TO THE NEW ROOF REPLACEMENT. CONTRACTOR TO VERIFY IF NEW ROOF CURB IS REQUIRED.
4. EXISTING BOILER FLUE AND WEATHER CAP TO BE REINSTALLED PRIOR TO THE ROOF REPLACEMENT.
5. EXISTING EXHAUST FAN ADJUSTED TO HANDLE ADDITIONAL EXHAUST CFM. CONTRACTOR TO ADJUST FAN SPEED AND BALANCE AIRFLOW FOR AN EXHAUST LOAD OF 810 CFM.

LEVEL 1 MECHANICAL PLAN - GAS METER LOCATION (1 / M-121)
1/8" = 1'-0"

GAS METER VIEW DETAIL (2 / M-121)
1/8" = 1'-0"



ROOF MECHANICAL PLAN
1/8" = 1'-0"

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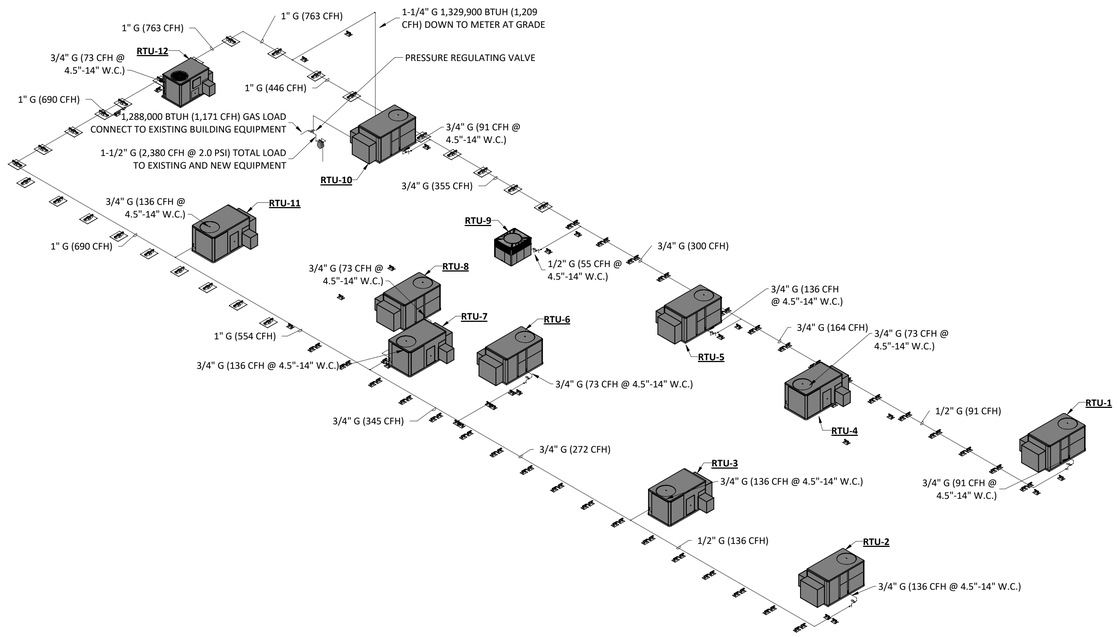
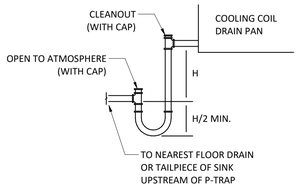
ROOF MECHANICAL PLAN

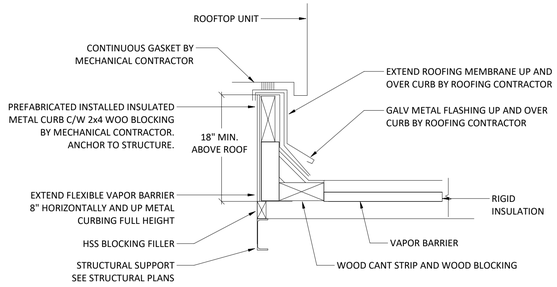
M-121



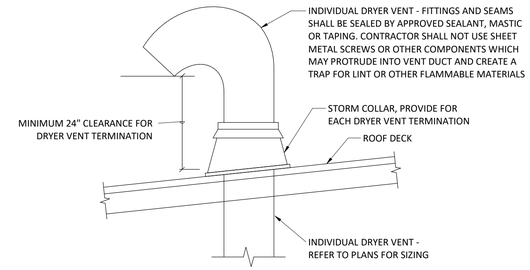
NATURAL GAS FLOW ISOMETRIC DIAGRAM 7 / M-501 (NTS)



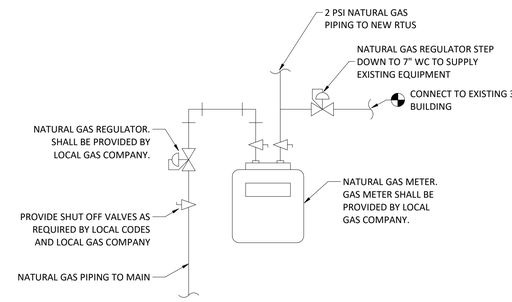
COOLING COIL CONDENSATE DRAIN DETAIL 4 / M-501 (NTS)



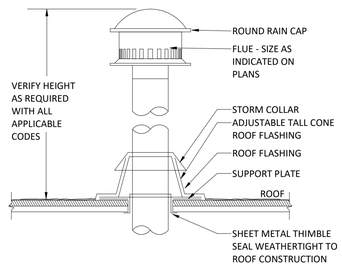
ROOF CURB DETAIL 3 / M-501 (NTS)



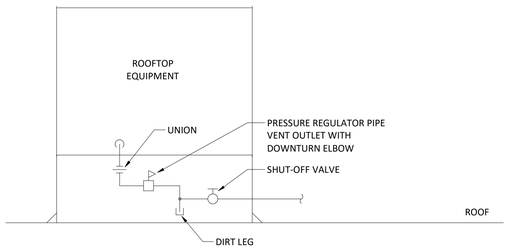
GOOSE NECK VENT TERMINATION DETAIL 8 / M-501 (NTS)



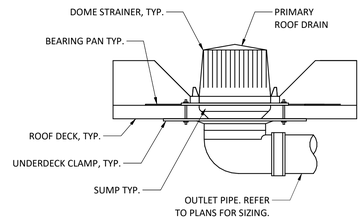
NATURAL GAS METER DETAIL 2 / M-501 (NTS)



FLUE VENT AND FLASHING DETAIL 6 / M-501 (NTS)



GAS PIPING CONNECTION FOR ROOFTOP UNIT DETAIL 5 / M-501 (NTS)



PRIMARY ROOF DRAIN DETAIL 1 / M-501 (NTS)

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MECHANICAL DETAILS

M-501

ROOFTOP UNIT | NATURAL GAS-FIRED SCHEDULE

PLAN MARK	SUPPLY AIRFLOW (CFM)	OA AIRFLOW (CFM)	EXTERNAL SP (IN. W.G.)	TOTAL SP (IN. W.G.)	COOLING LOADS			COOLING AIR CONDITIONS		DX COOLING COIL REFRIGERANT	MINIMUM EFFICIENCY (EER)	HEATING		HEATING AIR CONDITIONS		HEAT EXCHANGER MATERIAL	FUEL - NATURAL GAS			ELECTRICAL				DIMENSIONS (INCH)			WEIGHT (LBS.)	AREA SERVED	MANUFACTURER | MODEL	NOTES
					SENSIBLE (MBH)	LATENT (MBH)	TOTAL (MBH)	EAT DB/WB	LAT DB/WB			INPUT (MBH)	OUTPUT (MBH)	EAT (DEG. F)	LAT (DEG. F)		AFUE	GAS SIZE (ø)	MIN.-MAX. INLET PRESSURE	HP	AMPS (FLA)	VOLTAGE	ø	LENGTH	WIDTH	HEIGHT (NOTE 15)				
RTU-1	1,840	766	0.67	0.81	46.8	16.0	62.8	83/68	56/56	R-454B	13.0	100.0	81.0	60	100	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,090	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-2	2,000	393	0.56	0.72	47.8	12.4	60.2	79/65	54/54	R-454B	13.0	150.0	121.5	50	105	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,105	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-3	2,000	866	0.75	0.91	47.8	12.8	60.2	79/65	54/54	R-454B	13.0	150.0	121.5	60	115	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,105	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-4	1,600	393	0.49	0.55	33.1	14.3	47.4	82/67	52/52	R-454B	13.0	80.0	64.8	60	109	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	28	208	3	88.1	53.3	50.9	1,055	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK048	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-5	2,000	1,059	0.65	0.81	65.6	18.2	83.8	86/69	56/56	R-454B	12.2	150.0	121.5	70	125	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	34	208	3	88.1	53.3	50.9	1,189	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK072	1,2,3,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-6	1,285	260	0.96	1.03	33.3	12.9	46.2	79/65	51/51	R-454B	13.0	80.0	64.8	60	106	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	28	208	3	88.1	53.3	50.9	1,055	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK048	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-7	2,000	1,105	0.71	0.87	65.6	18.2	83.8	86/69	56/56	R-454B	12.2	150.0	121.5	60	115	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	34	208	3	88.1	53.3	50.9	1,189	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK072	1,2,3,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-8	1,580	337	0.44	0.54	39.4	8.7	48.1	80/65	54/54	R-454B	13.0	80.0	64.8	70	107	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	28	208	3	88.1	53.3	50.9	1,055	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK048	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-9	770	50	0.51	0.51	-	-	24.0	77/64	54/54	R-454B	11.5	60.0	48.0	60	70	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	1/2	5	208	1	52.0	45.0	46.0	374	SEE PLANS	TRANE ROOFTOP UNIT MODEL 5YCZ5024	1,2,4,7,9,10,1 1,12,13,15,16
RTU-10	1,600	658	0.50	0..61	42.8	18.3	61.1	83/68	54/54	R-454B	13.0	100.0	81.0	60	106	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,090	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-11	1,600	866	0.53	0.65	46.2	16.0	62.2	86/69	55/55	R-454B	13.0	150.0	121.5	60	129	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,105	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-12	1,000	190	0.29	0.49	27.0	9.0	36.0	79/65	52/52	R-454B	13.0	80.0	64.8	70	129	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3/4	20	208	3	69.4	44.3	46.9	809	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK036	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16

1. REFER TO MECHANICAL CONTROL SEQUENCES. REFER TO FLOOR PLANS FOR T-STAT & SENSOR LOCATIONS.
2. PROVIDE FACTORY INSTALLED STAND-ALONE CONTROLS.
3. PROVIDE MODULATING GAS VALVE.
4. PROVIDE STAGED GAS VALVE. RTU SHALL PROVIDE MIN. 2-STAGES OF HEATING.
5. PROVIDE UNITS ECONOMIZER WITH BAROMETRIC RELIEF, BASED ON DRY BULB TEMPERATURE.
6. PROVIDE UNITS WITH POWERED EXHAUST FOR BUILDING PRESSURIZATION CONTROL.
7. SUPPLY FAN IS DIRECT DRIVE, VARIABLE SPEED, BC PLENUM.
8. PROVIDE HOT GAS RE-HEAT (HGRH) FOR DEHUMIDIFICATION.
9. PROVIDE BIRD SCREENS FOR OUTSIDE AIR INLET.
10. PROVIDE 2" MERV13 AIR FILTERS.
11. PROVIDE CLOGGED FILTER SWITCH.
12. PROVIDE FACTORY WIRED 115V CONVENIENCE OUTLET.
13. PROVIDE UNIT MOUNTED NON-FUSED DISCONNECT SWITCH.
14. PROVIDE DUCT MOUNTED RA SMOKE DETECTORS FOR RTUS WITH AIRFLOWS OF 2,000 CFM AND LESS. PROVIDE RA & SA SMOKE DETECTORS FOR RTUS WITH AIRFLOWS GREATER THAN 4,000 CFM. SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLATED BY THE FIRE ALARM (FA) CONTRACTOR.
15. PROVIDE ROOF CURB. CURB SHALL MAINTAIN MINIMUM 18" CLEAR ABOVE ROOF AND INSULATION FINISHED ELEVATION. REFER TO ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS FOR ROOF AND INSULATION REQUIREMENTS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
16. OUTSIDE AIR CONDITIONS USED FOR HEATING, COOLING AND MIXED AIR:
    SUMMER: 95°F/75°F DB/WB.
    WINTER: -10°F DB.

DIFFUSER/REGISTER/GRILLE (DRG) SCHEDULE

PLAN MARK	FACE SIZE	INLET SIZE	BLADE DEFLECTION	INSTALLATION / MOUNTING	MATERIAL	COLOR / FINISH	MANUFACTURER/ MODEL	NOTES
EG-1	INLET SIZE + 2"	SEE PLANS	0°	SIDE/WALL MOUNT	STEEL	WHITE (4)	GREENHECK SECURITY GRILLE | MODEL XG-SGLF-50	1, 2, 3, 4, 5, & 6
EG-2	12" X 12"	SEE PLANS	N/A	CEILING	STEEL	WHITE (4)	GREENHECK EXHAUST GRILLE | MODEL RGPF-S	1, 2, 3, 4, & 5

1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DETAILS FOR FINISH AND DESIRED LOOK.
4. CONFIRM COLOR AND FINISH WITH ARCHITECT TO ENSURE DESIGN INTENT IS ACHEIVED FOR EACH SPACE.
5. ALL DIFFUSERS/REGISTERS/GRILLES SHALL BE PROVIDED WITH INTEGRAL DAMPER OR MEANS FOR ADJUSTING AIRFLOW AT THE OUTLET.
6. GRILLE TO BE SECURITY RATED/TAMPER PROOF.

CLOSED CIRCUIT COOLER SCHEDULE

PLAN MARK	LOCATION	MOTORS					COOLING EFFECT							DIMENSIONAL DATA			OPERATING WEIGHT (LBS.)	ELECTRICAL			MANUFACTURER/ MODEL
		FAN			SPRAY PUMP		AIR SUPPLY		WATER SUPPLY					LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		AMPS (FLA)	VOLTS (V)	PH	
		QTY	POWER (HP)	AIRFLOW (CFM)	QTY	POWER (HP)	EAT (DB)	EAT (WB)	FLOW (GPM)	EWT (DB)	LWT (DB)	PD (PSI)	EWR (GPM)								
CT-1	ROOF	1	7.5	12,500	1	0.5	95	79	100	103	90	6.8	1.04	122.0	41.0	88.0	4,960	23	208	3	EVAPCO CLOSED CIRCUIT COOLER MODEL LRWB 3-4H6-Z-H

PLUMBING FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION	MANUFACTURER/MODEL
RD-1	PRIMARY ROOF DRAIN - CAST IRON BODY, SECURED LOW SILHOUETTE CAST IRON DOME, 15-INCH ROUND ROOF DRAIN. COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS.	ZURN (Z100)

MINI-SPLIT AIR-CONDITIONER SCHEDULE

PLAN MARK	SUPPLY AIRFLOW (CFM)	COOLING CAPACITY - MIN. / MAX (MBH)	REFRIGERANT TYPE	SEER	HEATING CAPACITY (MBH)	HSPF	ELECTRICAL			DIMENSIONS (INCH)			MAX. REFRIG. TOTAL LENGTH // QUANTITY (LBS/1000 FT²)	WEIGHT (LBS.)	MANUFACTURER/MODEL	NOTES
							AMP (MCA)	VOLT	PHASE	WIDTH	DEPTH	HEIGHT				
UNIT VENTILATOR																
UV-1	317	--	(4)	--	--	10.2	2.5	208	1	35-7/16	28-7/8	9-7/8	--	58	MITSUBISHI MINI-SPLIT UNIT MODEL PEAD-A12AA9	1, 2, 3, 4, & 5
HEAT PUMP (CONDENSING UNIT)																
CU-1	--	4.8 / 12.0	(4)	21.8	--	--	11.0	208	1	31-13/16	11-13/16	24-13/16	165.0 // 3.1	92	MITSUBISHI CONDENSING UNIT MODEL PUY-A12NKA7	3, 4, 5, 6, 7, & 8

1. UNIT VENTILATOR SHALL BE EQUIPPED WITH CONDENSATE LIFT MECHANISM. ROUTE 3/4" CONDENSATE TO MOP SINK IN ADJACENT JANITOR CLOSET. DIVISION 26 CONTRACTOR SHALL WIRE THE CONDENSATE LIFT MECHANISM (PUMP).
2. PROVIDE UNIT VENTILATOR WITH WIRELESS REMOTE CONTROLLER.
3. REFRIGERANT LINESETS SHALL BE ROUTED IN MOST EFFICIENT PATH AND MINIMAL REFRIGERANT PIPE SHALL BE EXPOSED. ALL REFRIGERANT LINESET SHALL BE INSULATED PER ENERGY CODE REQUIREMENTS. PRE-INSULATED LINESETES ARE ACCEPTABLE.
4. MINI-SPLIT MANUFACTURER SHALL PROVIDE REFRIGERANT TYPE THAT MEETS ALL NEW FEDERAL REQUIREMENTS. REFER TO INTERNATIONAL MECHANICAL CODE, CHAPTER 11 REFRIGERANTS FOR MAXIMUM ALLOWABLE QUANTITY FOR SUBMITTED REFRIGERANT.
5. REFER TO SUBMITTED MANUFACTURER PIPING LENGTH RESTRICTIONS.
6. PROVIDE HAIL GUARD FOR CONDENSING UNIT CU-1
7. PROVIDE WIND BAFFLE FOR LOW AMBIENT COOLING.
8. INSTALL CONDENSING UNIT, CU-1 ON MOUNTING STAND - 12-INCH HEIGHT.

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

511 CAPITOL STREET BUILDING
STABILIZATION PROJECT
511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/25

DESCRIPTION	DATE

DRAWN BY	LM
CHECKED BY	Checker
PROJECT NO.	10271-10004

SHEET NAME
MECHANICAL SCHEDULES

M-502

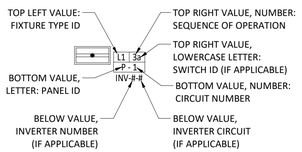
NOT FOR CONSTRUCTION

ELECTRICAL ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)
AF	AMP FRAME
ALT	ALTERNATE
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CP	CIRCULATING PUMP
CT	CURRENT TRANSFORMER
CU	COPPER
DET	DETAIL
DISC	DISCONNECT
DIST	DISTRIBUTION
DT	DOUBLE THROW
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FU	FUSE
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
HP	HORSEPOWER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MSBD	MAIN SWITCHBOARD
MTS	MANUAL TRANSFER SWITCH
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
RCPT	RECEPTACLE
RM	ROOM
SPEC	SPECIFICATION
STD	STANDARD
SWBD	SWITCHBOARD
TL	TWIST LOCK
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
V	VOLT
VA	VOLT-AMPERES
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
AFF	ABOVE FINISHED FLOOR
AFI	ARC FAULT CIRCUIT INTERRUPTER
AL	ALUMINUM
VFD	VARIABLE FREQUENCY DRIVE
@	AT
'	FEET
"	INCHES
#	NUMBER

ELECTRICAL ANNOTATIONS

LIGHTING TAGS

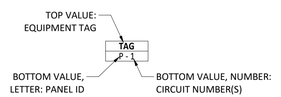


ABSENCE OF A SWITCH DESIGNATION ON A LIGHTING FIXTURE INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. AN "X" IN PLACE OF THE SWITCH DESIGNATION INDICATES UNSWITCHED.

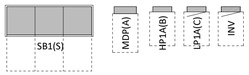
1a — SWITCH ID NUMBER CORRESPONDS TO SWITCH TYPE. SEE LIGHT SWITCH ID DETAIL.

a $ — SWITCH ID INDICATED BY A LOWERCASE LETTER. SWITCH IDS ARE UNIQUE PER SPACE. A SWITCH WITH AN ID "a" CONTROLS ALL DEVICES WITHIN THE SPACE IN WHICH IT IS LOCATED TAGGED WITH "a". A SWITCH WITHOUT A TAGGED ID CONTROLS ALL LIGHTING FIXTURES WITHIN A SPACE. ID TAGS MAY BE USED ON CONTROL DEVICES OTHER THAN SWITCHES, SUCH AS OCCUPANCY SENSORS OR CONTACTORS.

EQUIPMENT TAGS



POWER DISTRIBUTION EQUIPMENT



SOLID FILL INDICATES PROPOSED SWITCHBORAD, DISTRIBUTION, BRANCH PANEL OR LOAD CENTER.
DASHED BOX INDICATES CODE-REQUIRED CLEARANCE (WIDTH AND DEPTH).
DOOR INDICATES FRONT OF RECESSED PANEL.
HATCHED FILL INDICATES EMERGENCY PANEL OR INVERTER.

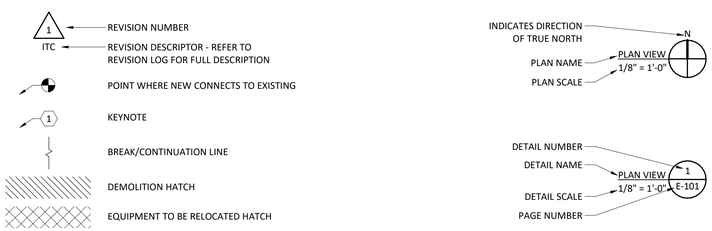
PANELBOARDS ARE ASSIGNED AN ABBREVIATED INDICATOR (OR PANEL ID) FOR USE WITH CIRCUIT NUMBERS. PANEL ID IS LISTED WITHIN THE PANEL SCHEDULE AND IN THE PANEL ABBREVIATION SCHEDULE.

EQUIPMENT IS TAGGED WITH PANEL NAME AND WITH PANEL ID IN PARENTHESES. PANEL ID IS INTENDED AS A DESIGN DOCUMENTATION AID ONLY. DO NOT INCLUDE PANEL ID IN FIELD-APPLIED CIRCUIT DIRECTORIES OR LABELS.

DEVICES AND FIXTURES ARE TAGGED WITH PANEL ID AND CIRCUIT NUMBER. FOR EXAMPLE, A DEVICE TAGGED WITH "A1" INDICATES THE DEVICE IS CIRCUITED TO PANEL DESIGNATED "A," CIRCUIT NUMBER 1. THE PANEL SCHEDULE CIRCUIT NUMBER CONTAINS BOTH THE PANEL ABBREVIATION AND THE CIRCUIT NUMBER.

T1 — TRANSFORMER: TYPICALLY TRANSFORMER NAMES BEGIN WITH OR CONTAIN THE LETTER "T". SEE SINGLE-LINE DIAGRAM FOR DESCRIPTION AND REQUIREMENTS.

GENERAL VIEW SYMBOLS & KEY



ELECTRICAL SYMBOL LEGEND

LIGHTING SYMBOLS

- LIGHTING FIXTURES, TYPICAL, RECTANGULAR (VARIOUS SYMBOLS)
  FILLED CIRCLES INDICATE RECESSED.
  OPEN CIRCLES INDICATE SURFACE-MOUNTED.
  DIAGONAL LINE INDICATES LENSED.
  OUTER DOTS INDICATE SUSPENDED.
- LIGHTING FIXTURES, TYPICAL, ROUND (VARIOUS SYMBOLS)
  CENTER DOT INDICATES PENDANT.
  DIAGONAL LINE INDICATES LENSED.
  CHEVRON INDICATES WALL WASH.
- WALL-MOUNTED FIXTURES, TYPICAL (VARIOUS SYMBOLS)
- STRIP FIXTURE
- DIRECTIONAL LIGHT, TRACK LIGHT, FLOOD LIGHT
- LINEAR LIGHT, TAPE LIGHT
- EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY
- EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY
- EXIT LIGHT, CEILING-MOUNTED.
  SHADING AND ARROWS INDICATE FACES AND DIRECTIONAL CHEVRONS.
- EXIT LIGHT, WALL-MOUNTED.
  SHADING AND ARROWS INDICATE FACES AND DIRECTIONAL CHEVRONS.
- EXIT/ELU COMBO
- POLE/AREA LIGHTS
- POST-TOP AREA LIGHT
- BOLLARD LIGHT
- PROPOSED LIGHT FIXTURE
- DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT.
- $ — LINE VOLTAGE SWITCH
- LOW VOLTAGE SWITCH

SWITCH MODIFIERS:

3: 3-WAY	OS: OCCUPANCY SENSOR
4: 4-WAY	VS: VACANCY SENSOR
K: KEYED	M: MOTOR-RATED
D: DIMMING	3M: 3 PHASE MOTOR-RATED
T: TIMER	SP: SPECIAL SWITCH, TYPE AS
V: VOLUME	INDICATED

FOR LOW VOLTAGE SWITCH TYPES, SEE LIGHTING CONTROL SHEET

- LC — LIGHTING CONTACTOR
- LIGHTING CONTROL PANEL (LCP)
- OS — OCCUPANCY SENSOR
- DL — DAYLIGHT HARVESTING SENSOR
- PC — PHOTOCELL
- TC — TIMECLOCK
- DAYLIGHTING ZONE

POWER SYMBOLS

WALL CEILING FLOOR

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE
- SPECIAL RECEPTACLE, TYPE AS INDICATED

RECEPTACLE MODIFIERS:
##": HEIGHT AFF OC
AC: ABOVE COUNTER
GFI: GROUND-FAULT CIRCUIT INTERRUPTER
WP: WEATHERPROOF IN-USE COVER
M: MULLION MOUNTED

- HALF SHADING INDICATES SPLIT (TYPICALLY SWITCHED)
- OUTSIDE SHADING INDICATES EMERGENCY CIRCUIT
- CENTER SHADING INDICATES ISOLATED GROUND
- MULTIOUTLET ASSEMBLY
  FILLED SQUARES INDICATE 120V OUTLET
  OPEN SQUARES INDICATE WITH USB
- CORD REEL, DEVICE VARIES
- DROP CORD, DEVICE VARIES
- J — JUNCTION BOX
- F1 — FLOOR BOX, SEE SCHEDULE FOR TYPE
- DO — DOOR OPERATOR (MAN DOOR)
- OD — OVERHEAD DOOR OPERATOR (GARAGE DOOR)
- HC — ADA PUSH BUTTON
- M — POWER METER
- SAFETY SWITCH, (ELEC PROVIDED)
- SAFETY SWITCH, (PROVIDED W/ EQUIPMENT)
- MOTOR STARTER
- COMBINATION STARTER/DISCONNECT
- CONTACTOR
- EPO — EMERGENCY PUSH BUTTON

POWER DEVICE AND EQUIPMENT TAGS

- a — ELECTRICAL DEVICE TAGS: UPPERCASE LETTER(S) INDICATES PANEL ID AND CIRCUIT NUMBER. LOWERCASE LETTER INDICATES DESIGNATION OF CONTROLLING SWITCH (WHERE APPLICABLE).
- MOTOR CONNECTION
- E — EQUIPMENT CONNECTION

WIRING

- SOLID, ARCED LINES CONNECTING EQUIPMENT, DEVICES, OR FIXTURES INDICATE UNSWITCHED POWER CIRCUITING. WIRES ARE ONLY INTENDED TO INDICATE TO WHAT CIRCUIT DEVICES ARE CONNECTED. ACTUAL CONNECTIONS, CIRCUIT ROUTING, INSTALLATION, JUNCTION BOXES, ETC. SHALL BE FIELD-DETERMINED BY THE CONTRACTOR.
- DASHED, ARCED LINES CONNECTING EQUIPMENT, DEVICES.
- HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE EQUIPMENT NAME AND CIRCUIT NUMBER(S) ARE INDICATED, SEPARATED BY A HYPHEN. HOMERUNS ARE ONLY INTENDED TO INDICATE PANEL AND CIRCUIT NUMBER. ACTUAL HOMERUN LOCATION SHALL BE FIELD-DETERMINED BY THE CONTRACTOR.

CONSTRUCTION PHASING

OS $ — EXISTING TO REMAIN	EXISTING TO REMAIN
OS $ — EXISTING TO BE DEMOLISHED	EXISTING TO BE DEMOLISHED
OS $ — NEW	NEW

ELECTRICAL SYSTEM ABBREV.

E — ELECTRICAL CONDUIT	E — EXISTING ELECTRICAL CONDUIT
OH — OVERHEAD LINES	OH — EXISTING OVERHEAD LINES
FO — FIBER OPTIC	FO — EXISTING FIBER OPTIC
LV — LOW VOLTAGE	LV — EXISTING LOW VOLTAGE

ELECTRICAL GENERAL NOTES

1. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
2. PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING, UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP ON BRANCH CIRCUITS AND 2%ON FEEDERS PER ENERGY CODE.
3. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BUT NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.
4. COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.
5. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS, AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT, AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
6. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.
7. FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.
8. ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.
9. MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNLESS NOTED OTHERWISE.
10. PROVIDE COMPLETE OPERATION & MAINTENANCE MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTY INFORMATION FOR PRODUCT SUPPLIED, AND MANUFACTURES OPERATION AND MAINTENANCE INSTRUCTIONS.
11. DATA OUTLETS SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
12. MATERIALS AND INSTALLATION, AT A MINIMUM, ARE TO CONFORM WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, THE LATEST EDITION OF N. F.P. A, AND THE LATEST EDITION OF THE LOCAL CODES AND ORDINANCES. INCLUDING ALL AMENDMENTS TO THE N.E.C. EQUIPMENT, WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITERS LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES.
13. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
14. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
15. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
16. CONTRACTOR TO PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTING.
17. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
18. AT PROJECT COMPLETION AND BEFORE THE FINAL OBSERVATION OF THE WORK, PROVIDE TO THE OWNER WRITTEN, ORAL AND HANDS-ON DEMONSTRATION OF THE OPERATION, FUNCTION AND MAINTENANCE OF EACH PIECE OF EQUIPMENT PROVIDED UNDER THE CONTRACT. INSTRUCTION TO THE OWNER SHALL BE SUFFICIENT FOR THE OWNER TO COMPLETELY UNDERSTAND THE OPERATION AND MAINTENANCE FOR EACH PIECE OF EQUIPMENT.
19. ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORTS FOR ALL ELECTRICAL EQUIPMENT. EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURAL MEMBERS. DO NOT ATTACH EQUIPMENT TO HVAC DUCTWORK, CEILING GRIDS AND CEILING SUPPORT MEMBERS, PIPING OR OTHER EQUIPMENT. GROUND OR SLAB MOUNTED EQUIPMENT SHALL BE MOUNTED ON A SEPARATE FOUR INCH HIGH CONCRETE SLAB.
20. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR REQUIRED BY THE ARCHITECT, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY:

TOGGLE SWITCHES	4'-0" TO CENTER
RECEPTACLES, DATA AND TELEPHONE OUTLETS	1'-3" TO BOTTOM
PANELBOARDS	6'-6" MAXIMUM TO TOP
MOTOR CONTROL EQUIPMENT, DISCONNECT SWITCHES	5'-0" MAXIMUM TO CENTERLINE
WIREWAYS, TOP FEED (ADJUSTABLE)	4'-0" MAXIMUM TO BOTTOM
WIREWAYS, BOTTOM FEED (ADJUSTABLE)	5'-6" MAXIMUM TO BOTTOM
WIRING DEVICES ABOVE COUNTERS, BENCHES	0'-8" ABOVE TOP TO BOTTOM OF DEVICE

21. ALL MOUNTING HEIGHTS MAY BE ADJUSTED IN THE FIELD. COORDINATE HEIGHTS OF ALL EQUIPMENT WITH SCREEN WALLS, FENCING, OTHER EQUIPMENT, ETC., WITH ARCHITECT BEFORE ROUGH-IN. THIS WILL INCLUDE WALL AND RACK MOUNTED EQUIPMENT INSIDE OR OUTSIDE.
22. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE THE TEMPORARY AND PERMANENT POWER WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE. THE COST FOR THESE SERVICES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
23. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, RIGID GALVANIZED METAL OR SCHEDULE 40 P.V.C. TYPE 'NM', 'MC' ELECTRICAL NON-METALLIC TUBING, AND FLEXIBLE METAL CONDUIT ARE ACCEPTABLE BASED ON CONSTRUCTION TYPE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN COMMON CONDUIT SHALL BE SIX (6). THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL.
24. ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 OR 80 PVC. UNDERGROUND SERVICE CONDUITS/RACEWAYS ENTERING BUILDING OR STRUCTURE FROM OUTSIDE TO INSIDE SHALL BE SEALED, INCLUDING SPARE CONDUITS. SEALANT SHALL BE SUITABLE FOR THIS USE.
25. OUTLET BOXES INSTALLED BETWEEN STUDS SHALL UTILIZE METAL TELESCOPIC MOUNTING BRACKETS.
26. LOAD DATA IS BASED ON INFORMATION GIVEN TO ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
27. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING AND CONNECTIONS OF HVAC SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS. TEMPERATURE CONTROLS SHALL BE UNDER DIVISION 23 WORK.
28. THE DISCONNECT SWITCH, FUSE SIZES, BREAKER SIZES, CONDUIT AND WIRE SHOWN FOR ALL HVAC ARE SIZED PER THE MANUFACTURER, AND MODEL NUMBER LISTED ON THESE PLANS, OR OTHER MANUFACTURER MECHANICAL PLANS. THE GENERAL CONTRACTOR SHALL BARE ANY ADDITIONAL COST INCURRED IF THE ELECTRICAL EQUIPMENT IS NOT EQUAL TO SPECIFICATIONS.
29. ALL SWITCHGEAR, PANELS, STARTERS, CONTACTORS ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
31. THE ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD OF THE COMPLETED PROJECT SUCH THAT NO PANELBOARD OR DISTRIBUTION DEVICE IS OVERLOADED, AND SO THAT THE LOAD BETWEEN PHASES IS WITHIN 15% OF EACH OTHER.
32. EXCAVATING AND BACKFILLING FOR INSTALLATION OF UNDERGROUND AND UNDERSLAB ELECTRICAL FACILITIES SHALL BE BY THE ELECTRICAL CONTRACTOR. REFER TO ARTICLE 300.5 OF THE NEC FOR REQUIREMENTS.
33. THE LOCATION OF FIXTURES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED IN THE FIELD WITH THE LOCATION OF PIPES, VENTILATION DUCTS, AND MECHANCIAL EQUIPMENT TO AVOID INTERFERENCES. ANY CONFLICTS DERIVING FROM EQUIPMENT INSTALLATION SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.
34. FIXTURE APERTURE/TRIM COLOR, REFLECTOR FLANGE, AND FINISH TO BE DETERMINED BY ARCHITECT AND OWNER.

NOT FOR CONSTRUCTION

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

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STABILIZATION PROJECT
511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/25

DESCRIPTION	DATE

DRAWN BY	SMF
CHECKED BY	KDM
PROJECT NO.	10271-10004

SHEET NAME
ELECTRICAL SYMBOLS & NOTES

EG001

SOFFIT CONDUIT EXAMPLE — 1 / ED101
3" = 1'-0"

ELECTRICAL DEMO NOTES

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. EXISTING SYSTEM COMPONENTS SHOWN FOR COORDINATION PURPOSES.
3. ELECTRICAL CIRCUIT REMOVAL REQUIRES REMOVING ALL WIRING/CONDUIT BACK TO SOURCE. IF THERE ARE OTHER DEVICES BEING SERVED BY THE SAME CIRCUIT IN ANOTHER AREA, CONTRACTOR SHALL EXTEND THE WIRING/CONDUIT TO THE NEXT DEVICE IN LINE TO MAINTAIN CONTINUITY. NOTE THAT NOT ALL CIRCUITS MAY BE INDICATED ON THESE PLANS. COORDINATE EXACT CIRCUITS IN THE FIELD.
4. EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES WHICH EXTEND BEYOND THE BOUNDARIES OF THE WORK AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF DEMOLITION AREA SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER. ANY CIRCUITS AFFECTED BY THIS DEMOLITION, WHICH ARE SCHEDULED TO REMAIN, SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES.
5. COMPLETE CIRCUITS AFFECTED BY THIS DEMOLITION SHALL HAVE ALL WIRING REMOVED TOTALLY BACK TO THEIR RESPECTIVE PANEL AND THE CIRCUIT BREAKER POSITION MARKED "SPARE".
6. ANY SPARES OR HEAVILY VACATED CIRCUITS MAY BE REUSED FOR INSTALLATION OF NEW CIRCUITS OR ADDITIONAL LOADS.
7. ANY ELECTRICAL EQUIPMENT REMOVED SHALL BE TURNED OVER TO THE OWNER OR DISPOSED OF OFF SITE AT THE OWNER'S DISCRETION.
8. THE PLANS INDICATE ONLY AFFECTED EQUIPMENT IN THE DESIGNATED DEMOLITION AREAS OF THIS PROJECT ALTHOUGH NOT EVERY ITEM MAY HAVE BEEN SHOWN. REMOVE NECESSARY ITEMS AS REQUIRED BY THIS DEMOLITION WHETHER SHOWN ON PLANS OR NOT.

ELECTRICAL DEMOLITION KEYED NOTES

E1	REMOVE EXTERIOR CONDUIT, JUNCTION BOXES, CAMERAS, AND ANY OTHER COMPONENTS AFFECTED BY SOFFIT REPLACEMENT DEMOLITION. COORDINATE WITH OTHER TRADES TO AVOID DISRUPTIONS AND DOWNTIME. CARE SHALL BE TAKEN TO REINSTALL COMPONENTS TO THEIR INITIAL WORKING CONDITION. OWNER MUST BE NOTIFIED OF ANY DISRUPTION TO CAMERAS AND POTENTIAL DOWNTIME OF ANY SECURITY DEVICES. SEE DETAIL 2	ED101 FOR AN EXAMPLE OF EXTERIOR ROUTED CONDUIT. BRING ANY OTHER POTENTIAL CONFLICTS TO THE ATTENTION OF ENGINEER PRIOR TO WORK.
E2	REMOVE EXISTING DOWNLIGHTS IN SOFFIT. EXISTING CONDUCTORS SHALL BE RE-USED. REPLACE WITH NEW FIXTURE AS SHOWN ON SHEET E-110.
E3	REMOVE EXISTING CARD READER AND TURN OVER TO OWNER. PROTECT WIRING FROM ELEMENTS UNTIL NEW READER IS INSTALLED.

FIRST FLOOR ELECTRICAL PLAN DEMO
1/8" = 1'-0"

N

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

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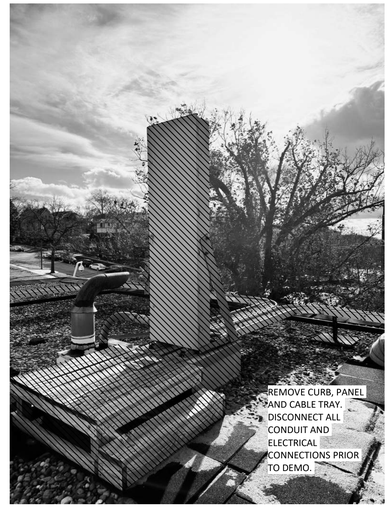
SHEET NAME
LEVEL 1 ELECTRICAL DEMOLITION PLAN

ED101

NOT FOR CONSTRUCTION

SATELLITE ANTENNA TOWER DEMO 2 ED121
3/4" = 1'-0"



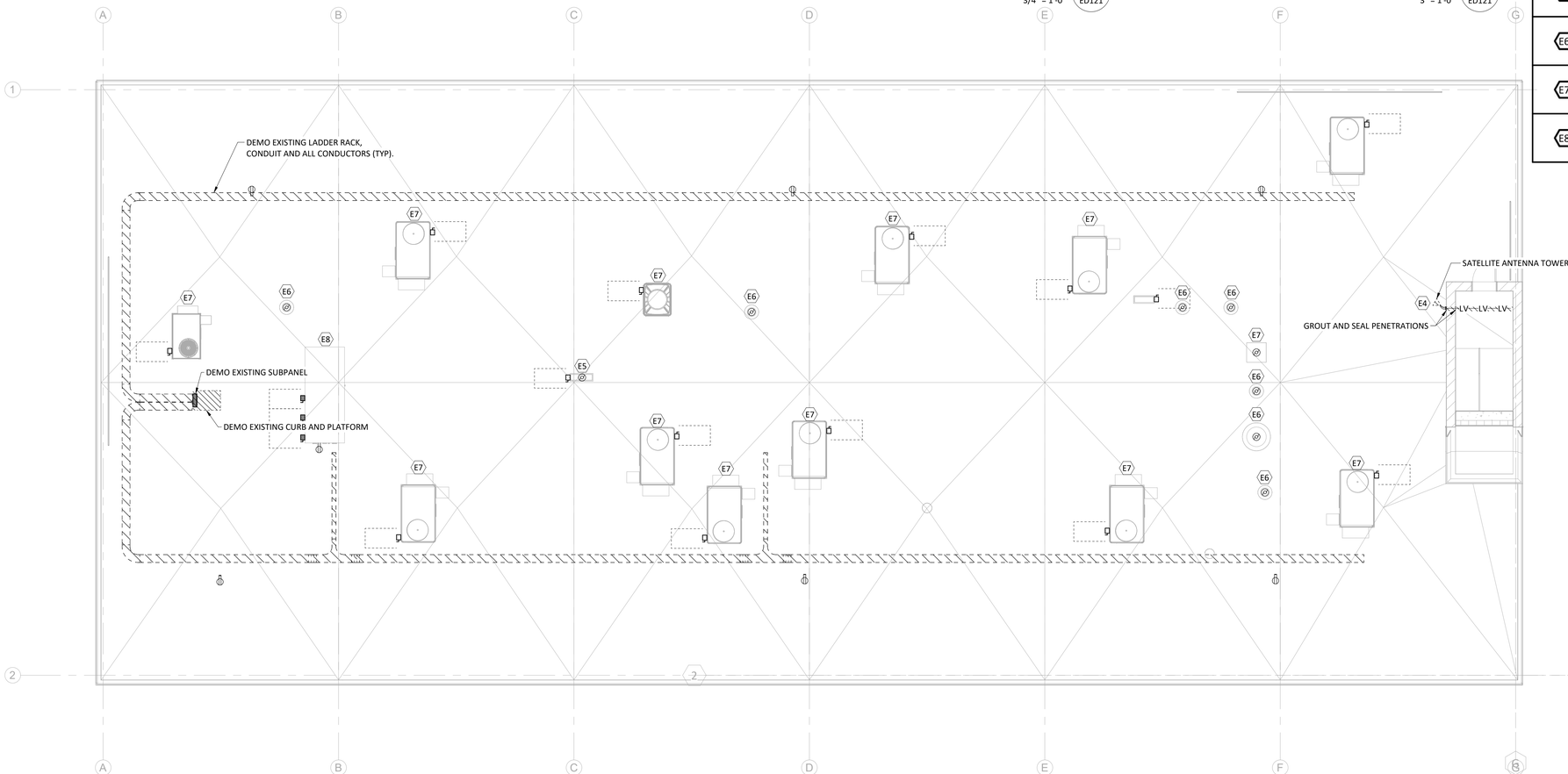
ROOF PANEL DEMO 1 ED121
3" = 1'-0"

ELECTRICAL DEMO NOTES

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. EXISTING SYSTEM COMPONENTS SHOWN FOR COORDINATION PURPOSES.
3. IN GENERAL, ALL ELECTRICAL COMPONENTS SHALL BE REMOVED FROM ROOF PRIOR TO ROOF DEMOLITION AND REINSTALLATION. THIS INCLUDES ALL DISCONNECTS, CONDUIT AND CONDUCTORS SERVING EQUIPMENT.
4. EXISTING BRANCH CIRCUITS SERVING EXHAUST FANS AND CONDENSING UNITS SHALL BE RETAINED. PROVIDE AND INSTALL NEW CONDUIT FROM EACH ROOF PENETRATION TO THE CORRESPONDING EQUIPMENT. EXISTING CONDUCTORS SHALL BE PULLED THROUGH THE NEW CONDUIT INSTALLATIONS. COORDINATE ALL ROOF PENETRATION LOCATIONS WITH THE ROOFING CONTRACTOR PRIOR TO COMMENCEMENT OF ROOF REPLACEMENT TO ENSURE COMPATABILITY WITH THE ROOFING SYSTEM AND MAINTAIN WEATHERPROOF INTEGRITY.
5. ELECTRICAL CIRCUIT REMOVAL REQUIRES REMOVING ALL WIRING/CONDUIT BACK TO SOURCE. IF THERE ARE OTHER DEVICES BEING SERVED BY THE SAME CIRCUIT IN ANOTHER AREA, CONTRACTOR SHALL EXTEND THE WIRING/CONDUIT TO THE NEXT DEVICE IN LINE TO MAINTAIN CONTINUITY. NOTE THAT NOT ALL CIRCUITS MAY BE INDICATED ON THESE PLANS. COORDINATE EXACT CIRCUITS IN THE FIELD.
6. EXTREME CARE SHALL BE TAKEN NOT TO DISRUPT ANY ELECTRICAL SERVICES WHICH EXTEND BEYOND THE BOUNDARIES OF THE WORK AREA AND ARE TO REMAIN DURING DEMOLITION. POWER TO EQUIPMENT OUTSIDE OF DEMOLITION AREA SHALL NOT BE TURNED OFF WITHOUT PROPER PERMISSION FROM OWNER. ANY CIRCUITS AFFECTED BY THIS DEMOLITION, WHICH ARE SCHEDULED TO REMAIN, SHALL BE PROPERLY REWIRED TO MAINTAIN SERVICE AND COMPLIANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES.
7. ANY SPARES OR HEAVILY VACATED CIRCUITS MAY BE REUSED FOR INSTALLATION OF NEW CIRCUITS OR ADDITIONAL LOADS.
8. ANY ELECTRICAL EQUIPMENT REMOVED SHALL BE TURNED OVER TO THE OWNER OR DISPOSED OF OFF SITE AT THE OWNER'S DISCRETION.
9. THE PLANS INDICATE ONLY AFFECTED EQUIPMENT IN THE DESIGNATED DEMOLITION AREAS OF THIS PROJECT ALTHOUGH NOT EVERY ITEM MAY HAVE BEEN SHOWN. REMOVE NECESSARY ITEMS AS REQUIRED BY THIS DEMOLITION WHETHER SHOWN ON PLANS OR NOT.

ELECTRICAL DEMOLITION KEYED NOTES

E4	DEMO EXISTING SATELLITE ANTENNA TOWER AND ALL ASSOCIATED CABLING AND POWER INJECTORS CONNECTED TO IT. CONTRACTOR TO SEAL ALL PENETRATIONS AFTER TOTAL REMOVAL OF WIRING.
E5	EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REUSED. REMOVE CU AND ANY PIPING, POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E6	EXISTING ROOF EXHAUST FANS (EF) TO BE REUSED. REMOVE EF AND POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E7	DEMO OF EXISITING ROOFTOP UNITS SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, CURBS, PIPING CONNECTIONS, POWER AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.
E8	DEMO OF EXISTING COOLING TOWER (EVAPORATIVE COOLER) SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, ALL EQUIPMENT SUPPORTS, ALL PIPING AND INSULATION, POWER CONNECTIONS AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.



ROOF FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

N

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SHEET NAME
ROOF ELECTRICAL DEMOLITION PLAN

ED121

NORTH ENTRANCE (DOOR 125) 11 ED501
NTS

SOFFIT NORTHWEST 10 ED501
NTS

SOFFIT WEST 9 ED501
NTS

SOFFIT WEST 8 ED501
NTS

SOFFIT SOUTHWEST 7 ED501
NTS

WEST EMPLOYEE ENTRANCE 6 ED501
NTS

SOFFIT SOUTHEAST 5 ED501
NTS

SOFFIT SOUTHEAST 4 ED501
NTS

SOFFIT EAST ENTRANCE 3 ED501
NTS

SOFFIT EAST 2 ED501
NTS

SOFFIT NORTHEAST 1 ED501
NTS

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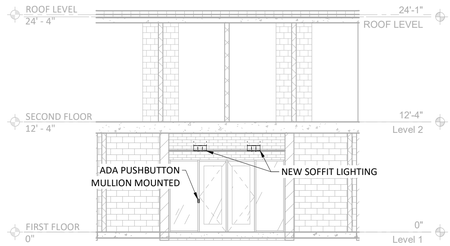
SHEET NAME
ELECTRICAL DEMO PHOTOS

ED501



MAIN ENTRANCE ELEVATION 2
1/8" = 1'-0" E-101

FIRST FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

N

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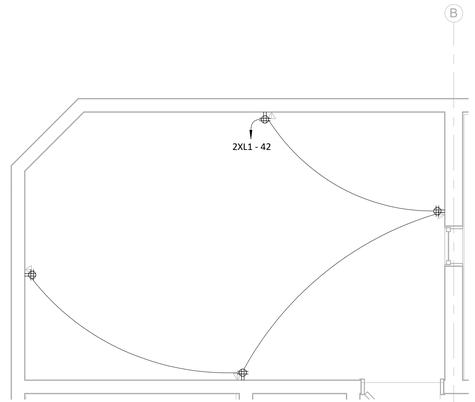
SHEET NAME
LEVEL 1 ELECTRICAL PLAN

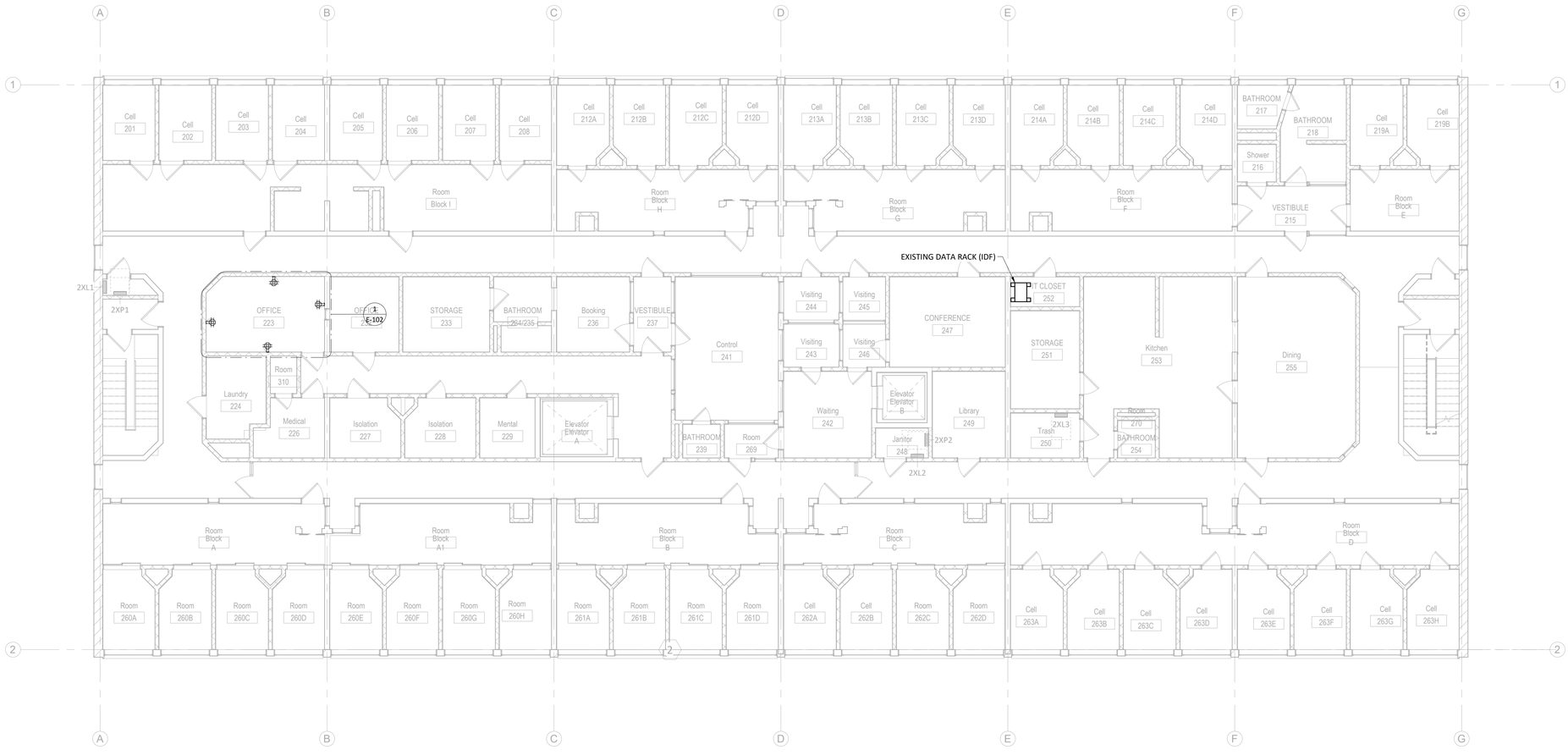
E-101



OFFICE ENLARGED ELECTRICAL PLAN (1 / E-102)
3/8" = 1'-0"

ELECTRICAL NOTES

1. INSTALL LINE AND LOW-VOLTAGE CABLING IN SURFACE MOUNTED WIREMOLD IN OFFICE 223. PAINT OR PROVIDE WIREMOLD THAT MATCHES EXISTING WALL FINISH.
2. COORDINATE FINAL LOCATION OF RECEPTACLES WITH OWNER PRIOR TO INSTALLATION.
3. DATA RECEPTACLES SHALL BE WIRED WITH CAT6 CABLE BACK TO DATA RACK (IDF) LOCATED IN ROOM 252. TERMINATE CABLES AND PROVIDE 20' OF SLACK IN ROOM 252.



SECOND FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

N

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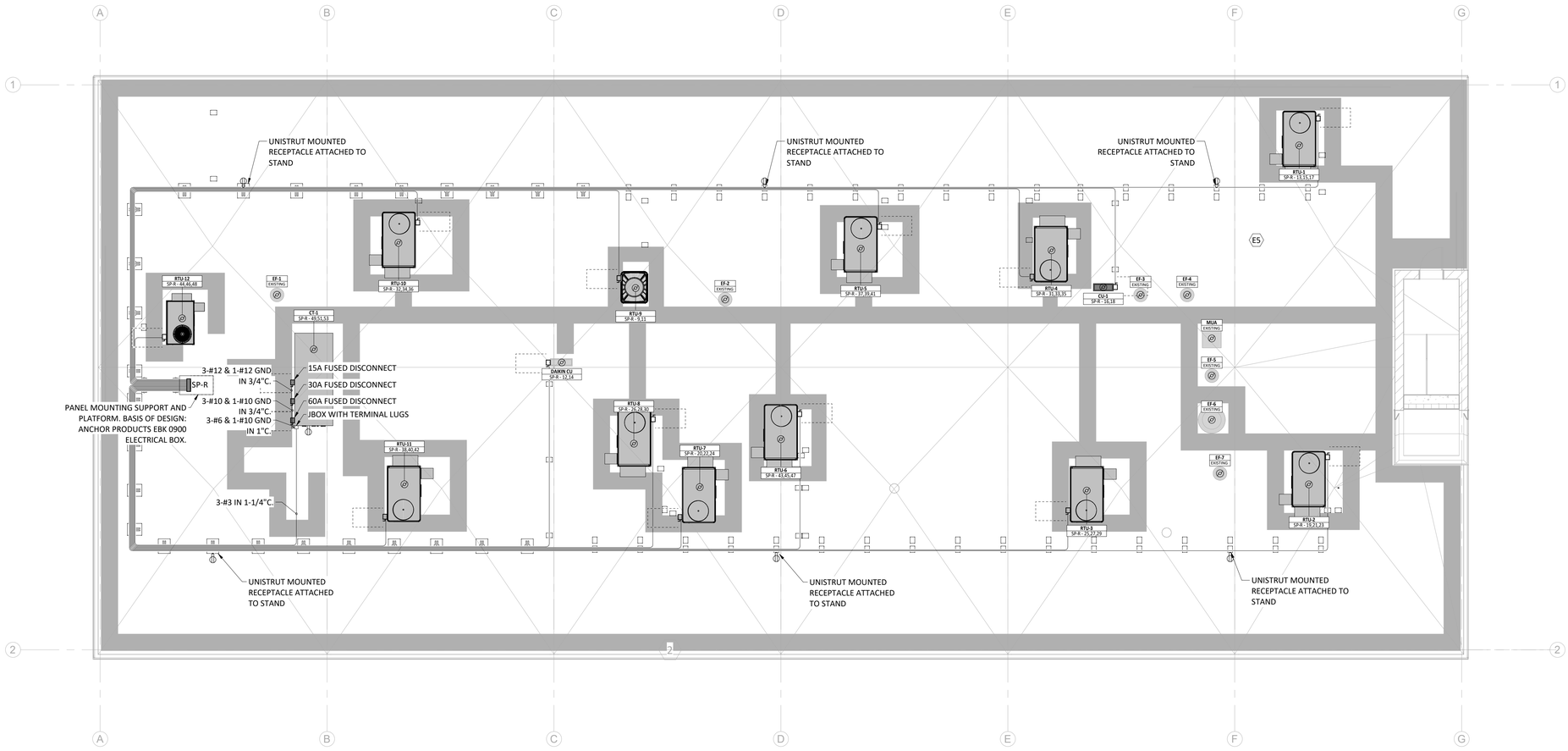
SHEET NAME
LEVEL 2 ELECTRICAL PLAN

E-102

ELECTRICAL NOTES	
1	CONDUIT ROUTED ACROSS ROOF SHALL BE SUPPORTED USING CONDUIT STANDS. FOR SUPPORTING FIVE CONDUITS OR LESS USE MIRO INDUSTRIES 8-BASE STRUT-5. FOR MORE THAN FIVE CONDUITS USE MIRO INDUSTRIES 20-BASE STRUT-4.
2	PROVIDE TWO (2) SETS OF 100' HEAT TAPE FOR COOLING TOWER PIPING. BASIS OF DESIGN: VEVOR 100FT SELF-REGULATING PIPE HEATING CABLE.



ROOF FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

N

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SHEET NAME
ROOF ELECTRICAL PLAN

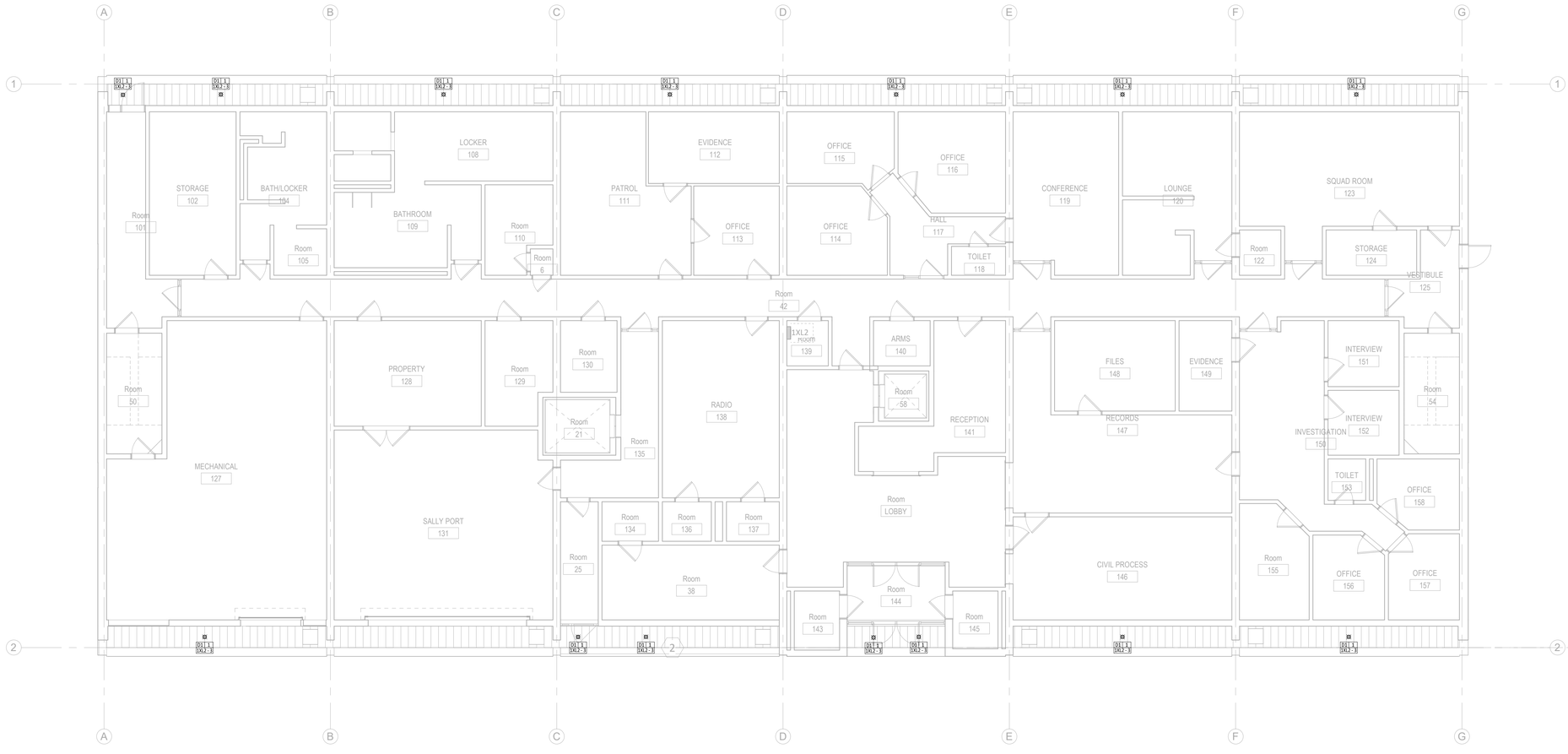
E-103

LIGHTING SCHEDULE

TAG	SYMBOL	MANUFACTURER	MODEL NUMBER	DESCRIPTION	MOUNTING	TOTAL LUMENS	CCT	CRI	VOLTAGE	WATTS	EMERGENCY COMPONENT	NOTES
D1		LITHONIA	LDN6 ALO1 (1000LM) SWW1 (5000K) AR LD WD 80CRI	6" DOWNLIGHT	CEILING | 9'	500/750/1000 lm	3500/4000/5000 K	80	120 V	13 W		LUMENS AND COLOR TEMP ARE SWITCHABLE. INSTALL AT 750LM AND 4000K

LIGHTING CONTROL SEQUENCE OF OPERATION

OPERATION SEQUENCE	ROOM TYPE	TIME DELAY	LIGHTING SEQUENCE			RECEPTACLE SEQUENCE	HVAC SEQUENCE	DESCRIPTION
			POWER ON	DAY LIGHT CONTROLS	POWER OFF			
1	SOFFIT LIGHTS	N/A	PHOTOCELL	N/A	PHOTOCELL	N/A	N/A	FIXTURES WIRED TO PHOTOCELL CONTROLLED RELAY FOR DUSK TO DAWN OPERATION.



LIGHTING PLAN 1/8" = 1'-0" (1 / E-110)

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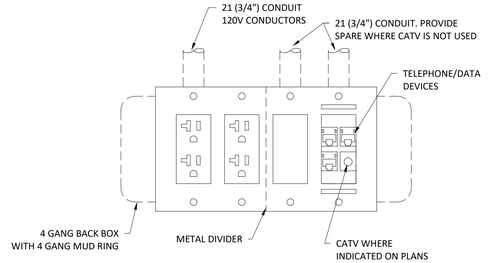
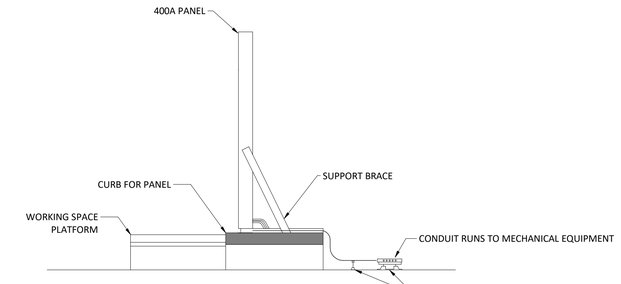
SHEET NAME
LEVEL 1 LIGHTING PLAN

E-110

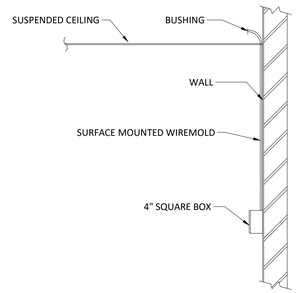


MULTI-SERVICE BOX AND DEVICES 4 PORT
NTS
3 / E-501

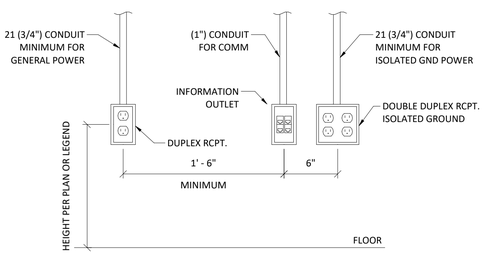


NOTE:
ELECTED CURB AND PLATFORM SOLUTION MAY DIFFER FROM WHAT IS SHOWN. THIS IS FOR DIAGRAMMATIC PURPOSES ONLY.

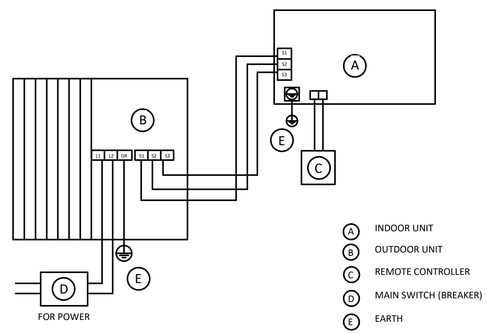
ROOF TOP ELECTRICAL PANEL
1/2" = 1'-0"
2 / E-501

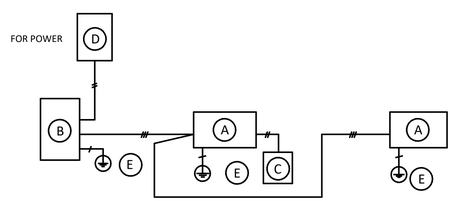


TELEPHONE/COMPUTER STUB UP DETAIL
NTS
5 / E-501



TYPICAL OUTLET INSTALLATION DETAIL
NTS
4 / E-501





CU-1 / UV-1 WIRING DIAGRAM
3/16" = 1'-0"
1 / E-501

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SHEET NAME
ELECTRICAL DETAILS

E-501

Panelboard: SP-R

Location: ROOF
Supply:
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 400 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MCB
Mains Rating: 400 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A...		Phase B...		Phase C...		FN/Note	Poles	Trip (A)	Description	Ckt
1					--	--									2
3	SPACE	--	3	--			--	--			--	3	--	SPACE	4
5									--	--					6
7	*SPACE*	--	1	--	--	--					--	1	--	*SPACE*	8
9	RTU-9	25	2				1560	--			--	1	--	*CIRCUIT 2*	10
11									1560	1040		2	15	*DAIKIN-CU*	12
13					3603	1040									14
15	RTU-1	50	3				3603	1144				2	25	CU-1/UV-1	16
17									3603	1144					18
19					3603	4119						3	50	RTU-7	20
21	RTU-2	50	3				3603	4119							22
23									3603	4119					24
25					3603	3350						3	50	RTU-8	26
27	RTU-3	50	3				3603	3350							28
29									3603	3350					30
31					3350	3603						3	50	RTU-10	32
33	RTU-4	50	3				3350	3603							34
35									3350	3603					36
37					4119	3603						3	50	RTU-11	38
39	RTU-5	50	3				4119	3603							40
41									4119	3603					42
43					3350	2438						3	35	RTU-12	44
45	RTU-6	50	3				3350	2438							46
47									3350	2438					48
49					4072	540						1	20	**RECPT EAST**	50
51	CT-1	100	3				4072	540				1	20	**RECPT WEST**	52
53									4072	180		1	20	**HEAT TAPE**	54
				Connected Load:	44 kVA		46 kVA		47 kVA						
				Connected Current:	369 A		385 A		391 A						

Load Classification	Connected	Factor	Demand
Other	135927 VA	100.00%	135927 VA
Receptacle - General	1260 VA	100.00%	1260 VA

Panel Totals	
Connected Load:	137 kVA
Connected Current:	380 A
Demand Load:	137 kVA
Demand Current:	380 A

Notes:
1. NOT ALL CIRCUITS COULD BE IDENTIFIED BY VISUAL INSPECTION OR PANEL SCHEDULE. EC TO TRACE EXISTING CIRCUITS, REWIRE TO PANEL AND CREATE UPDATED PANEL SCHEDULE.

MOTOR AND EQUIPMENT SCHEDULE

KEY NOTES:
A. START-STOP PUSH BUTTON
B. AUTO-OFF-HAND SELECTOR SWITCH ON DOOR
C TWO SPEED SELECTOR SWITCH 'HI-OFF-LO'
TWO SPEED STARTER
D. OFF-AUTO SELECTOR SWITCH ON DOOR
G. GREEN PILOT LIGHT ON DOOR
R. RED PILOT LIGHT ON DOOR
FT. CONTROL CIRCUIT TRANSFORMER

EQUIP TAG	NOTES: EQUIPMENT TAGS NOTED AS ##/## ARE WIRED TO SAME CIRCUIT. AMPACITY SHOWN IS TOTAL CIRCUIT AMPS.								STARTER/DISCONNECT E-FURNISHED BY ELECTRICAL CONTRACTOR M-FURNISHED BY MECHANICAL CONTRACTOR						
	DESCRIPTION	AMP	VOLTAGE	# OF POLES	WIRE SIZE	CONDUIT	PANEL/MCC	MOCP	STR	DISC	SW AMPS	FUSE AMPS	NEMA SIZE	KEY NOTES	REMARKS
CT-1	CHILLER TOWER HEATER, SUPPLY FAN AND SPRAY PUMP	34 A	208 V	3	3-#1, 1-#8	1 1/4''	SP-R	100 A		E		60, 30 & 15			NEMA 3R JUNCTION BOX AND DISCONNECTS. THREE ELECTRICAL CONNECTIONS MADE BY TAPPING OFF MAIN FEEDER TO SERVE HEATING ELEMENT, SPRAYER PUMP, AND FAN.
CU-1/UV-1	CONDENSING UNIT	11 A	208 V	2	2-#10, 1-#10	3/4''	SP-R	25 A		E	30				NEMA 3R RATED DISCONNECT
DAIKIN-CU	EXISTING CONDENSING UNIT	10 A	208 V	2	2-#14, 1-#14	3/4''	SP-R	15 A		E	30				NEMA 3R RATED DISCONNECT
DO-2/4	DOOR OPENERS	0 A	120 V	1	1-#12, 1-#12, 1-#12	3/4''	1XL2	20 A							
RTU-1	ROOFTOP UNIT	30 A	208 V	3	3-#4, 1-#6	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-2	ROOFTOP UNIT	30 A	208 V	3	3-#4, 1-#6	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-3	ROOFTOP UNIT	30 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-4	ROOFTOP UNIT	28 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-5	ROOFTOP UNIT	34 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-6	ROOFTOP UNIT	28 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-7	ROOFTOP UNIT	34 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-8	ROOFTOP UNIT	28 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-9	ROOFTOP UNIT	15 A	208 V	2	2-#10, 1-#10	3/4''	SP-R	25 A		M					PROVIDED W/ EQUIPMENT
RTU-10	ROOFTOP UNIT	30 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-11	ROOFTOP UNIT	30 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-12	ROOFTOP UNIT	20 A	208 V	3	3-#8, 1-#10	1''	SP-R	35 A		M					PROVIDED W/ EQUIPMENT

ELECTRICAL KEYED NOTES (MASTER)

E1	REMOVE EXTERIOR CONDUIT, JUNCTION BOXES, CAMERAS, AND ANY OTHER COMPONENTS AFFECTED BY SOFFIT REPLACEMENT DEMOLITION. COORDINATE WITH OTHER TRADES TO AVOID DISRUPTIONS AND DOWNTIME. CARE SHALL BE TAKEN TO REINSTALL COMPONENTS TO THEIR INITIAL WORKING CONDITION. OWNER MUST BE NOTIFIED OF ANY DISRUPTION TO CAMERAS AND POTENTIAL DOWNTIME OF ANY SECURITY DEVICES. SEE DETAIL 2|ED101 FOR AN EXAMPLE OF EXTERIOR ROUTED CONDUIT. BRING ANY OTHER POTENTIAL CONFLICTS TO THE ATTENTION OF ENGINEER PRIOR TO WORK.
E2	REMOVE EXISTING DOWNLIGHTS IN SOFFIT. EXISTING CONDUCTORS SHALL BE RE-USED. REPLACE WITH NEW FIXTURE AS SHOWN ON SHEET E-110.
E3	REMOVE EXISTING CARD READER AND TURN OVER TO OWNER. PROTECT WIRING FROM ELEMENTS UNTIL NEW READER IS INSTALLED.
E4	DEMO EXISTING SATELLITE ANTENNA TOWER AND ALL ASSOCIATED CABLING AND POWER INJECTORS CONNECTED TO IT. CONTRACTOR TO SEAL ALL PENETRATIONS AFTER TOTAL REMOVAL OF WIRING.
E5	EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REUSED. REMOVE CU AND ANY PIPING, POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E6	EXISTING ROOF EXHAUST FANS (EF) TO BE REUSED. REMOVE EF AND POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E7	DEMO OF EXISITING ROOFTOP UNITS SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, CURBS, PIPING CONNECTIONS, POWER AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.
E8	DEMO OF EXISTING COOLING TOWER (EVAPORATIVE COOLER) SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, ALL EQUIPMENT SUPPORTS, ALL PIPING AND INSULATION, POWER CONNECTIONS AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.

BREAKER FUNCTION SCHEDULE

#	FOR ANY NUMBER, SEE PANEL SCHEDULE FOOTER NOTE
A	ARC-FAULT INTERRUPTER (AFCI) PROTECTION
AR	ARC ENERGY REDUCTION MAINTENANCE SWITCH
D	DEMOLISHED CIRCUIT (NOW SPARE OR SPACE) {FORMER CIRCUIT IN BRACKETS}
E	EXISTING TO REMAIN CIRCUIT
EM	PROVIDE IDENTIFICATION PER NEC 700.12(I)(2)(4)
G	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION (5 mA)
GE	GROUND-FAULT PROTECTION FOR EQUIPMENT (30 mA)
GF	ADJUSTABLE GROUND-FAULT PROTECTION FOR EQUIPMENT
H	BREAKER HASP TO PREVENT UNINTENTIONAL OPENING
L	LOCKABLE OPEN ACCORDING TO NEC 110.25 (FIRE ALARM OCP TO BE RED)
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS AND GROUND-FAULT ADJUSTMENTS
N	NEW CIRCUIT (IN EXISTING PANEL, PREVIOUSLY SPARE OR SPACE)
NB	NEW BREAKER TO REPLACE EXISTING BREAKER OR SPACE (NEW TRIP RATING SHOWN)
NR	NEW CIRCUIT TO REPLACE EXISTING CIRCUIT {FORMER CIRCUIT IN BRACKETS}
R	RELOCATED CIRCUIT
S	SWITCH-RATED PER NEC 240.83(D)
SH	SHUNT TRIP BREAKER

COPPER FEEDER & BRANCH CIRCUIT SCHEDULE

RATING (SEE NOTE A)	PHASE CONDUCTORS & NEUTRAL	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT SIZE FOR 4W	CONDUIT SIZE FOR 2W OR 3W
15	12	12	3/4"	3/4"
20	12	12	3/4"	3/4"
25	10	10	3/4"	3/4"
30	10	10	3/4"	3/4"
35	8	10	1	3/4"
40	8	10	1	3/4"
45	8	10	1	3/4"
50	8	10	1	3/4"
60	6	10	1	1
70	4	8	1 1/4"	1
80	4	8	1 1/4"	1
90	3	8	1 1/4"	1 1/4"
100	3	8	1 1/4"	1 1/4"
110	2	6	1 1/2"	1 1/4"
125	1	6	2"	1 1/2"
150	1/0	6	2"	1 1/2"
175	2/0	6	2"	2"
200	3/0	6	2 1/2"	2"

COPPER FEEDER & BRANCH CIRCUIT SCHEDULE NOTES:

A. UNLESS SPECIFICALLY NOTED OTHERWISE, THIS SCHEDULE APPLIES TO ALL ONE-LINE DIAGRAMS, PANEL SCHEDULES, AND EQUIPMENT CONNECTIONS SCHEDULES. A FEEDER OR BRANCH CIRCUIT RATING SHALL BE EQUAL TO THE SPECIFIED RATING OF ITS CORRESPONDING OCPD (OVERCURRENT PROTECTION DEVICE), UNLESS SPECIFICALLY NOTED OTHERWISE. RATINGS FOR EQUIPMENT CONNECTIONS SCHEDULES ARE NOTED IN THE "FEEDER RATING" COLUMN. THE TERM "RATING" IS NOT NECESSARILY SYNONYMOUS WITH "CURRENT-CARRYING CAPACITY" AND IS INTENDED SOLELY TO IDENTIFY PARTICULAR FEEDER SPECIFICATIONS.

B. VALUES IN PARENTHESES INDICATE THE QUANTITY OF PARALLEL SETS IN SEPARATE CONDUITS.

C. IF A FEEDER OR BRANCH CIRCUIT RATING EXCEEDS THAT OF IT CORRESPONDING OCPD, THEN ITS EQUIPMENT GROUNDING CONDUCTOR MUST BE INCREASED PROPORTIONALLY CROSS-SECTIONAL AREA TO THAT OF THE PHASE CONDUCTORS. THEREFORE, THE EQUIPMENT GROUNDING CONDUCTOR SIZE INDICATED IN THIS SCHEDULE SHALL APPLY ONLY IF IT IS NOT SPECIFICALLY NOTED OTHERWISE ON THE PLANS, ONE-LINE DIAGRAMS, OR EQUIPMENT CONNECTIONS SCHEDULES.

D. A FEEDER RATING CAN BE SPECIFIED LESS THAN ITS ASSOCIATED OCPD WHEN IT SERVES A MOTOR LOAD WITH DEDICATED OVERLOAD PROTECTION AND ITS BREAKER IS "OVERSIZED" TO ALLOW FOR INCREASED STARTING CAPACITY (IN RUSH CURRENT).

E. WIRE SIZES ARE BASED ON N.E.C. TABLE 310.15(8)(16) FOR COPPER. THHN/THWN. 75-DEG C.CONDUIT SIZES ARE BASED ON TABLES IN N.E.C; "ANNEX C" THAT ARE APPLICABLE FOR RACEWAY TYPES SPECIFIED UNDER SECTION 260533 "RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS".

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511 S CAPITOL ST.
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PERMITTING DOCUMENTS

DATE	10/10/25
DESCRIPTION	DATE

DRAWN BY	DMS
CHECKED BY	KDM
PROJECT NO.	10271-10004

SHEET NAME
ELECTRICAL SCHEDULES

E-601

NOT FOR CONSTRUCTION

TECHNOLOGY SYMBOL LEGEND

AUDIO VISUAL SYMBOLS

DEVICE SYMBOLS	DESCRIPTION
S X	SPEAKER OUTLET - CEILING MOUNTED X - INDICATED PLAN MARK OF SPEAKER DEVICE, SEE AV SCHEDULE
S X	SPEAKER OUTLET - CEILING MOUNTED X - INDICATED PLAN MARK OF SPEAKER DEVICE, SEE AV SCHEDULE
M	MICROPHONE OUTLET - CEILING/FLOOR MOUNTED (XLR ONLY)
M X	MICROPHONE OUTLET - WALL MOUNTED (XLR ONLY)
V	VOLUME CONTROL - WALL MOUNTED
P	PROJECTOR - CEILING MOUNTED
P	PROJECTOR - WALL MOUNTED
M	PROJECTION SCREEN - CEILING MOUNTED M - INDICATES MOTORIZED SCREEN
M	PROJECTION SCREEN - WALL MOUNTED M - INDICATES MOTORIZED SCREEN
A/V	AUDIO VIDEO DEVICE
A/V	AUDIO VIDEO DEVICE - WALL MOUNTED
AV-1	HDMI/USB WALL PLATE FOR CLASSROOM PROJECTOR SYSTEMS

TECHNOLOGY SYMBOLS

DEVICE SYMBOLS	DESCRIPTION
C X	CLOCK - CEILING MOUNTED (SEE CLOCK SCHEDULE) X- INDICATES PLAN MARK OF CLOCK DEVICE
C X	CLOCK - WALL MOUNTED (SEE CLOCK SCHEDULE) A - INDICATES 12" SINGLE FACE CLOCK B - INDICATES 12" DUAL FACE CLOCK C - INDICATES 16" SINGLE FACE CLOCK
I X	INTERCOM DEVICE - WALL MOUNTED X - INDICATES PLAN MARK OF INTERCOM DEVICE, SEE INTERCOM SCHEDULE
I X	INTERCOM SPEAKER - CEILING MOUNTED X - INDICATES PLAN MARK OF INTERCOM DEVICE, SEE INTERCOM SCHEDULE
I X	INTERCOM SPEAKER - WALL MOUNTED X - INDICATES PLAN MARK OF INTERCOM DEVICE, SEE INTERCOM SCHEDULE
R	RADIO FREQUENCY REPEATER - SURFACE MOUNTED
R	RADIO FREQUENCY REPEATER - WALL MOUNTED
V	VAPE DETECTOR - CEILING MOUNTED
V	VAPE DETECTOR - WALL MOUNTED
A	DAS COVERAGE UNITS
	SPECIAL CABINET AS NOTED - SURFACE MOUNT
	SPECIAL CABINET AS NOTED - RECESSED MOUNT

TELECOM SYMBOLS

DEVICE SYMBOLS	DESCRIPTION
WALL CEILING FLOOR	
	DATA OUTLET
	TELEPHONE OUTLET
	DATA/TELEPHONE OUTLET OUTLET MODIFIERS: ##": HEIGHT AFF OC AC: ABOVE COUNTER
WAP	WIRELESS ACCESS POINT
WAP	WIRELESS ACCESS POINT
TV	TV OUTLET
	INFORMATION JACK FOR VOICE OR DATA USE, MATCH RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED
	-INDICATED DUAL JACK
	-INDICATES QUAD JACK

SECURITY / ACCESS CONTROL SYMBOLS

DEVICE SYMBOLS	DESCRIPTION
	SECURITY CAMERA PTZ: PAN/TILT/ZOOM
CR	CARD READER
CR M	CARD READER, MULLION
CR L	CARD READER, LONG RANGE READER
A V	VIDEO DOOR STATION
CK	CARD READER WITH KEYPAD
TV CC	CLOSED CIRCUIT TV OUTLET
DC	DOOR CONTACT
ES	ELECTRIC STRIKE
ML	MAGNETIC LOCK
RX	REQUEST TO EXIT BUTTON
REX	REQUEST TO EXIT SENSOR
MD	MOTION DETECTOR
XXX	SECURITY CONTROL UNIT SCP: SECURITY CONTROL PANEL SPS: SECURITY POWER SUPPLY UNIT ACP: ACCESS CONTROL PANEL
L	LOCKOUT BUTTON, LOCK ALL ELECTRIFIED DOORS
D A	VIDEO DOOR DESKTOP STATION (AI PHONE)
O	BUZZ DOOR OPEN BUTTON

CONSTRUCTION PHASING

DEVICE SYMBOLS	CONSTRUCTION PHASING
	(TYPICAL ALL SYMBOLS AND EQUIPMENT)
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	NEW
	EXISTING TO BE DEMOLISHED

MISCELLANEOUS

	AREA NOT IN CONTRACT
#	KEYNOTE
X X-XXX	CALLOUT: TOP VALUE: DETAIL NUMBER ON SHEET BOTTOM VALUE: SHEET NUMBER OF DETAIL
ROOM XXX	ROOM NAME AND NUMBER

FIRE ALARM SYMBOLS

DEVICE SYMBOLS	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER, FIRE, WALL
F	HORN, CEILING, FIRE
	STROBE, WALL, FIRE
A	STROBE, WALL, AMBER
	STROBE, CEILING, FIRE
A	STROBE, CEILING, AMBER
	SPEAKER/STROBE, WALL, FIRE
A	SPEAKER/STROBE, WALL, AMBER
	SPEAKER/STROBE, CEILING, FIRE
A	SPEAKER/STROBE, CEILING, AMBER
	REMOTE INDICATOR W/ TEST SWITCH, WALL
	REMOTE INDICATE W/ TEST SWITCH, CEILING
	SMOKE DETECTOR
	HEAT DETECTOR
R S	FAN SHUT DOWN / CONTROL RELAY
CO	CARBON MONOXIDE DETECTOR
T	BEAM DETECTOR T: TRANSMITTER R: RECEIVER
CO	COMBINATION DETECTOR (UP TO THREE)
	DUCT SMOKE DETECTOR
	SMOKE DAMPER
DH	DOOR HOLDER
DCL	DOOR CLOSER
	AREA OF REFUGE (2-WAY COMM)
XXX	ADDRESSABLE MODULE AIM: ADDRESSABLE INPUT MODULE AOM:ADDRESSABLE OUTPUT CONTROL MODULE AIO: ADDRESSABLE INPUT/OUTPUT MODULE
XXXX	FIRE ALARM CONTROL UNIT EVAC: VOICE EVACUATION CONTROL PANEL FAA: FIRE ALARM ANNUNCIATOR FACP: FIRE ALARM CONTROL PANEL FATC: FIRE ALARM TERMINAL CABINET NACP: NOTIFICATION APPLIANCE CIRCUIT PANEL FAMN: FIRE ALARM MASS NOTIFICATION CONTROL PANEL
XX	SUPERVISORY OR INTERFACE DEVICE PIV: POST INDICATOR VALVE SUPERVISORY PS: PRESSURE SWITCH R: NON-ADDRESSABLE RELAY VS: VALVE SUPERVISORY SWITCH WF: WATER FLOW SWITCH

NOT ALL DEVICES SHOWN MAY BE IN USE. WALL MOUNT MAY BE USED IN PLACE OF CEILING AS NEEDED.

TECHNOLOGY GENERAL NOTES

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. COORDINATION ALL CONDUIT ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCE SPACE.
3. DATA DROPS TO EQUIPMENT ARE LOCATED IN THE GENERAL AREA OF TERMINATION POINT. COORDINATE EXACT LOCATION WITH OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
4. EQUIPMENT SHOWN ARE LOCATED IN THE GENERAL AREA WHERE THEY WILL BE INSTALLED. COORDINATE WITH OWNER FOR FINAL LOCATION.
5. CAT 6 CABLING SHOULD BE UTILIZED WITH A STANDARD OF 2 PORTS PER NETWORK DROP LOCATION (PLACED IN ACCORDANCE WITH FURNITURE AND CASEWORK UNLESS OTHERWISE NOTED.)
6. ALL DATA OUTLETS TO BE WIRED BACK TO DATA RACK USING CAT6 CABLE.
7. LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLE SHALL BE PLENUM RATED IN PLENUM SPACES.

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SHEET NAME
TECHNOLOGY SYMBOLS

T000

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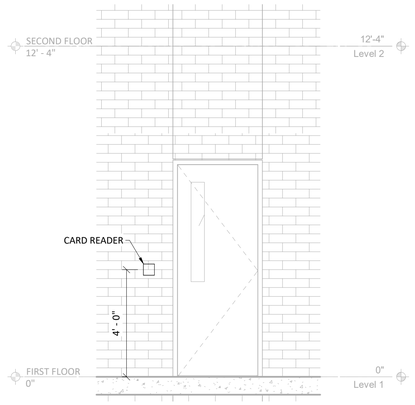
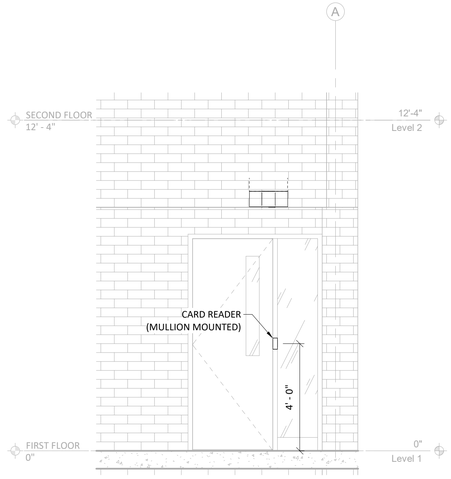


NORTH EMPLOYEE ENTRANCE ELEVATION 2 / T-101
3/8" = 1'-0"



WEST EMPLOYEE ENTRANCE ELEVATION 1 / T-101
3/8" = 1'-0"

TECHNOLOGY NOTES	
1	COORDINATE ALL CONDUIT ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCE SPACE.
2	DATA DROPS ARE LOCATED IN THE GENERAL AREA OF TERMINATION POINT. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
3	INSTALL LINE AND LOW VOLTAGE CABLING IN SURFACE MOUNTED WIREMOLD IN OFFICE 223. PAINT OR PROVIDE WIREMOLD THAT MATCHES EXISTING WALL FINISH.
4	COORDINATE FINAL LOCATION OF RECEPTACLES WITH OWNER PRIOR TO INSTALLATION.
5	DATA RECEPTACLES SHALL BE WIRED WITH CAT6 CABLE BACK TO DATA RACK (IDF) LOCATED IN ROOM 252 AND TERMINATE CABLE. PROVIDE 20' OF SLACK IN ROOM 252, OWNER TO CONNECT CABLE TO PATCH PANEL OR SWITCH.

TECHNOLOGY NOTES	
1	FURNISH AND INSTALL NEW HID SIGNO CARD READERS AT THE LOCATIONS INDICATED ON THIS SHEET. ENSURE PROPER INTEGRATION WITH EXISTING ACCESS CONTROL SYSTEM AND VERIFY FUNCTIONALITY UPON COMPLETION. EXISTING LV WIRING TO BE RE-USED.

TECHNOLOGY PLAN
1/8" = 1'-0"

N

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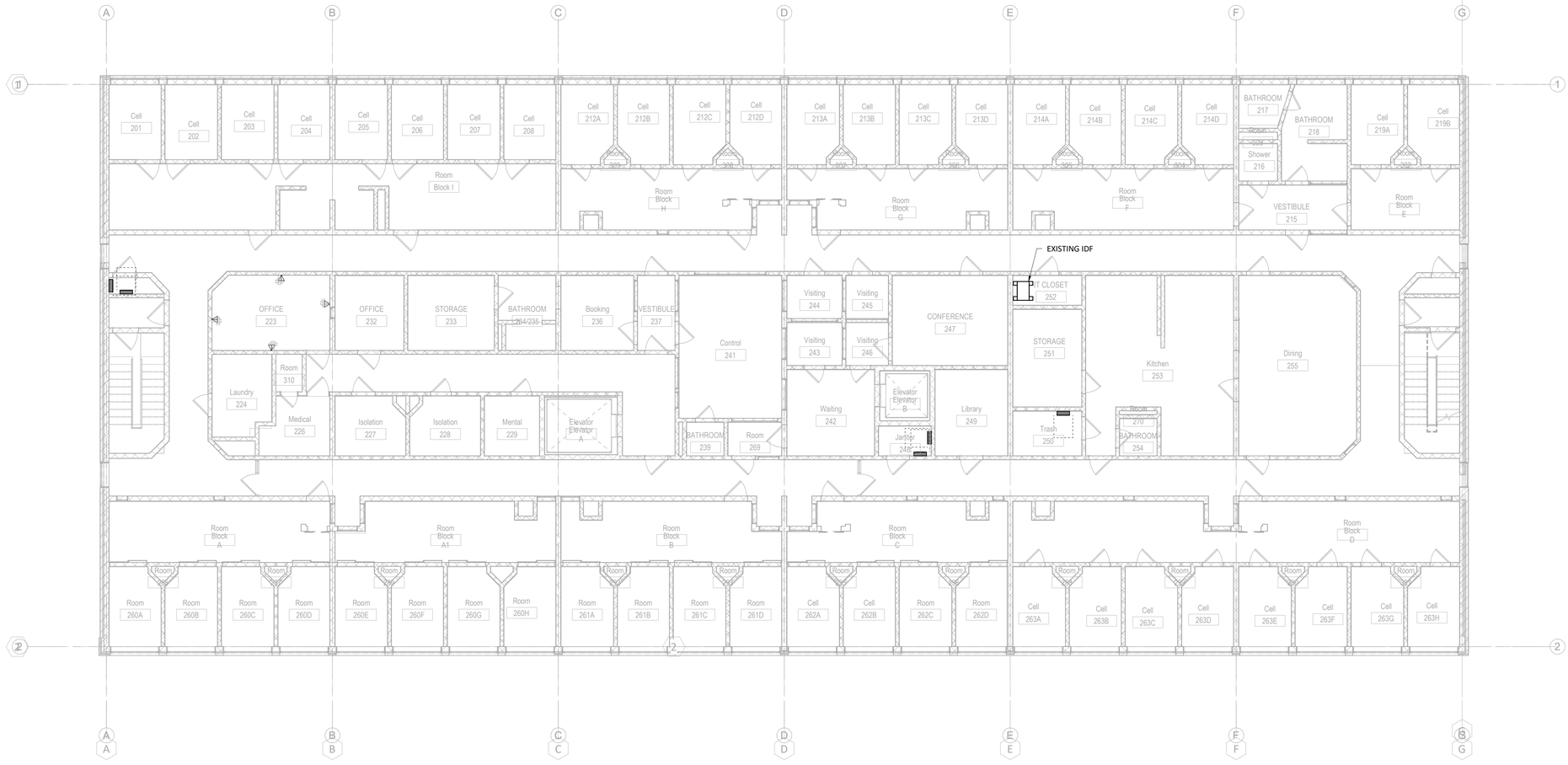
SHEET NAME
LEVEL 1 TECHNOLOGY PLAN

T-101



SECOND FLOOR TECHNOLOGY PLAN
1/8" = 1'-0"

N

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SHEET NAME
LEVEL 2 TECHNOLOGY PLAN

T-102