

GENERAL NOTES

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- ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT ASBESTOS MATERIALS AND LEAD BASED PAINT. WHERE OBSERVED, THE MATERIALS ARE NOTED ON THE PLANS.
- ALL ASBESTOS AND LEAD BASED PAINT LOCATIONS AND TESTING RESULTS WERE SUPPLIED BY A THIRD PARTY ENTITY. PLEASE REFER TO "FINAL PROJECT DEFINITION REPORT, CULLUM HALL US MILITARY ACADEMY, WEST POINT, NY, 20 MAY 2019" FOR CLARIFICATION OR OTHER ASBESTOS OR LEAD BASED PAINT INFORMATION.

SYMBOL KEY

- ◇ - DESIGNATION FOR ASBESTOS CONTAINING MATERIALS
- - DESIGNATION FOR LEAD BASED PAINT CONTAINING MATERIALS. SEE ARCHITECTURAL DRAWINGS FOR LEVEL OF ABATEMENT.
- CA - DESIGNATION FOR LEAD BASED PAINT CONTAINING MATERIALS REQUIRING COMPLETE ABATEMENT (CA). SEE GENERAL NOTE 4.
- ▬ - EXIST WALLS, DOORS TO REMAIN (SHOWN SCREENED)
- - - - - DEMOLITION WALLS, DOORS TO BE DEMOLISHED (SHOWN DASHED)

ASBESTOS NOTES

- NOT ALL OF THE ACM'S DEPICTED ON THE DRAWINGS WILL REQUIRE ABATEMENT. REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL ITEMS THAT WILL REQUIRE REMOVAL.

ASBESTOS SAMPLE SYMBOLS

KEY	MATERIAL	EST. QTY.
A	Fire Doors (Assumed)	
B	Gray 12"x12" Floor Tile	25 SF
C	Black 12"x12" Floor Tile	373 SF
D	Black Tar Paper Under Gray 12"x12" Floor Tile	398 SF

LEAD BASED PAINT NOTES

- OSHA'S LEAD IN CONSTRUCTION STANDARD APPLIES TO ALL DISTURBANCES OF LEAD BASED PAINT. IN ADDITION, THE CONTRACTOR SHALL USE METHODS TO LIMIT THE AMOUNT OF DUST PRODUCED DURING DEMOLITION OF ANY WALL AND CEILINGS CONTAINING LEAD BASED PAINT. ICRA DUST CONTROLS SHALL BE UTILIZED AT ALL TIMES.

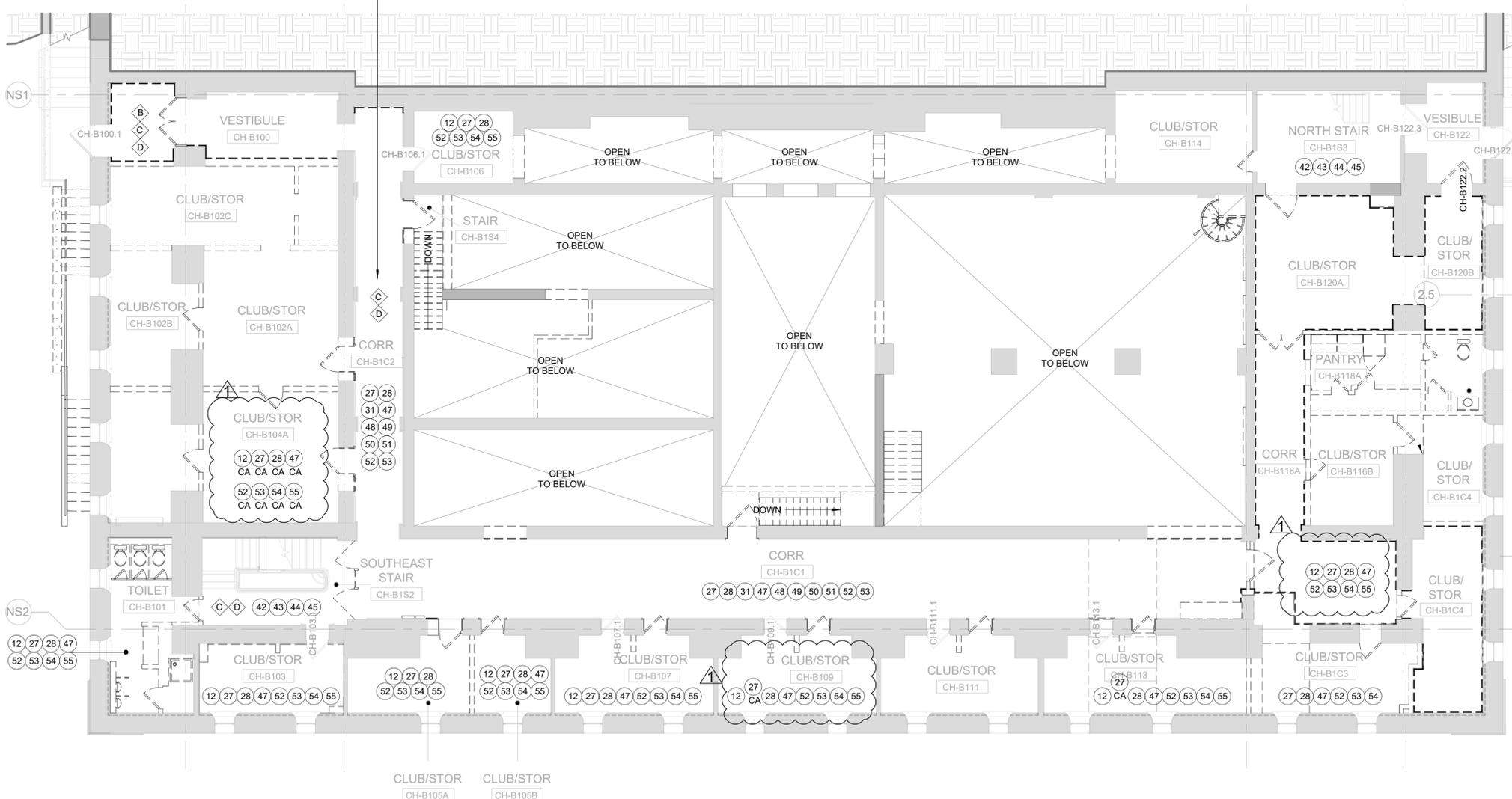
LEAD-BASED PAINT SAMPLE KEY

CODE	RECOMMENDATION
HR	It is recommended that these surfaces be periodically observed for chalking, peeling, or cracking. If the surface is chalking, it can be cleaned with a trisodium phosphate and repainted. If the surface is peeling or cracking, it should be repaired or abated.
AR	A strategy of abatement that entails the removal of the building components coated with lead-based paint and installation of new components free of lead-based paint.
A ENCP	"Encapsulant" means a coating rigid material that relies on adhesion to a lead-based paint surface and is not mechanically fastened to the substrate with a 20 year warranty. "Encapsulation" means a process to make a lead-based paint inaccessible by providing a barrier between the lead-based paint and the environment, where the primary means of attachment for the encapsulant is bonding of a product to the surface covered either by the product itself or through the use of an adhesive.
A ENCL	"Enclosure" means the installation of a rigid, durable, barrier that is mechanically attached to building components, with all the edges and seams sealed with caulk or other sealant having a design life of at least 20 years.
CA	A process designed whether to permanently eliminate lead-based paint hazards on a component and includes but is not limited to: The removal of lead-based paint and lead-contaminated dust.
OSHA	Any painted surface that has lead content should not be sanded, demolished, or disturbed without the proper engineering controls and work methods. As spelled out under OSHA's CFR Part 1926 Lead Exposure in Construction, Interim Rule. Improper disturbance of any paint with lead content can cause lead to become airborne.
NA	X-Ray Fluorescence Spectrometer (XRF) results indicated 0.0 or below, which indicates no lead detected by the XRF Spectrometer.

LEAD BASED PAINT SAMPLE SYMBOLS

KEY	COLOR / SUBSTRATE / COMPONENT	SURFACE / CONDITION	RECOMMENDATION CODE
1	Off White / Plaster / Wall	Non-Friction / Fair	HR, OSHA, A Encp
2	Off White / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA
3	Gray / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
4	Off White / Plaster / Column	Non-Friction / Intact	HR, OSHA
5	BROWN / Plaster / Column	Non-Friction / Intact	HR, OSHA
6	Off White / Plaster / Ceiling	Non-Friction / Intact	HR, OSHA
7	BROWN / Plaster / Picture Rail	Non-Friction / Intact	HR, OSHA
8	BROWN / Plaster / Crown Molding	Non-Friction / Intact	HR, OSHA
9	Off White / Wood / Window Sill	Non-Friction / Intact	HR, OSHA
10	Off White / Wood / Door	Friction / Intact	HR, OSHA
11	Off White / Wood / Door Jamb	Friction / Intact	HR, OSHA
12	White / Wood / Window Casing	Non-Friction / Intact	HR, OSHA, A Encp, CA
13	Green / Concrete / Baseboard	Non-Friction / Intact	HR, OSHA
14	Gray / Metal / Spindle	Non-Friction / Intact	HR, OSHA
15	Gray / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
16	Gray / Metal / Wall Cap	Non-Friction / Intact	HR, OSHA
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19	BROWN / Wood / Door	Friction / Intact	HR, OSHA
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21	Gray / Concrete / Floor	Friction / Intact	HR, OSHA
22	Gray / Concrete / Stair Tred	Friction / Intact	HR, OSHA
23	DARK Green / Metal / Hand Rail	Friction / Intact	HR, OSHA
24	DARK Green / Metal / Spindle	Non-Friction / Intact	HR, OSHA
25	DARK Green / Metal / Stair Riser	Non-Friction / Intact	HR, OSHA
26	DARK Gray / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
27	White / Wood / Door	Friction / Intact	HR, OSHA, A Encp, CA
28	White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA, A Encp, CA
29	Green / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
30	Green / Metal / Stair Spindle	Non-Friction / Intact	HR, OSHA
31	Gray / Metal / Heater	Non-Friction / Intact	HR, OSHA
32	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
33	Off White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
34	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
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37	White / Wood / Wall Molding	Non-Friction / Intact	HR, OSHA
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39	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
40	Off White / Wood / Pocket Doors	Friction / Intact	HR, OSHA
41	Off White / Wood / Pocket Door Casing	Non-Friction / Intact	HR, OSHA
42	LT. Green / Metal / Stair Spindle	Non-Friction / Intact	HR, OSHA
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56	White / Sheetrock / Wall	Non-Friction / Intact	HR, OSHA
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THIS AREA WAS NOT INCLUDED IN ORIGINAL SAMPLE DATA FOR ASBESTOS. SECONDARY SITE INVESTIGATION INDICATED SIMILAR FLOORING MATERIALS PREVIOUSLY TESTED AND RECOMMENDS ABATEMENT MEASURE BE INCLUDED FOR THIS AREA.



HAZMAT PLAN - BASEMENT LEVEL B1
SCALE: 1/8" = 1'-0"



US Army Corps of Engineers

ISSUE DATE: 2/11/2021

DESIGNED BY: [Redacted]

DRAWN BY: [Redacted]

ALIGNED BY: [Redacted]

CHECKED BY: [Redacted]

APPROVED BY: [Redacted]

PROJECT NO.: 20190494

DATE: 5/21/21

MARK: [Redacted]

WEST POINT, NY

USMA BUILDING 605 CULLUM HALL RENOVATION

HAZMAT PLAN - BASEMENT LEVEL B1

SHEET ID

H-1B1

JACOBS / EWING / COLE

A Joint Venture

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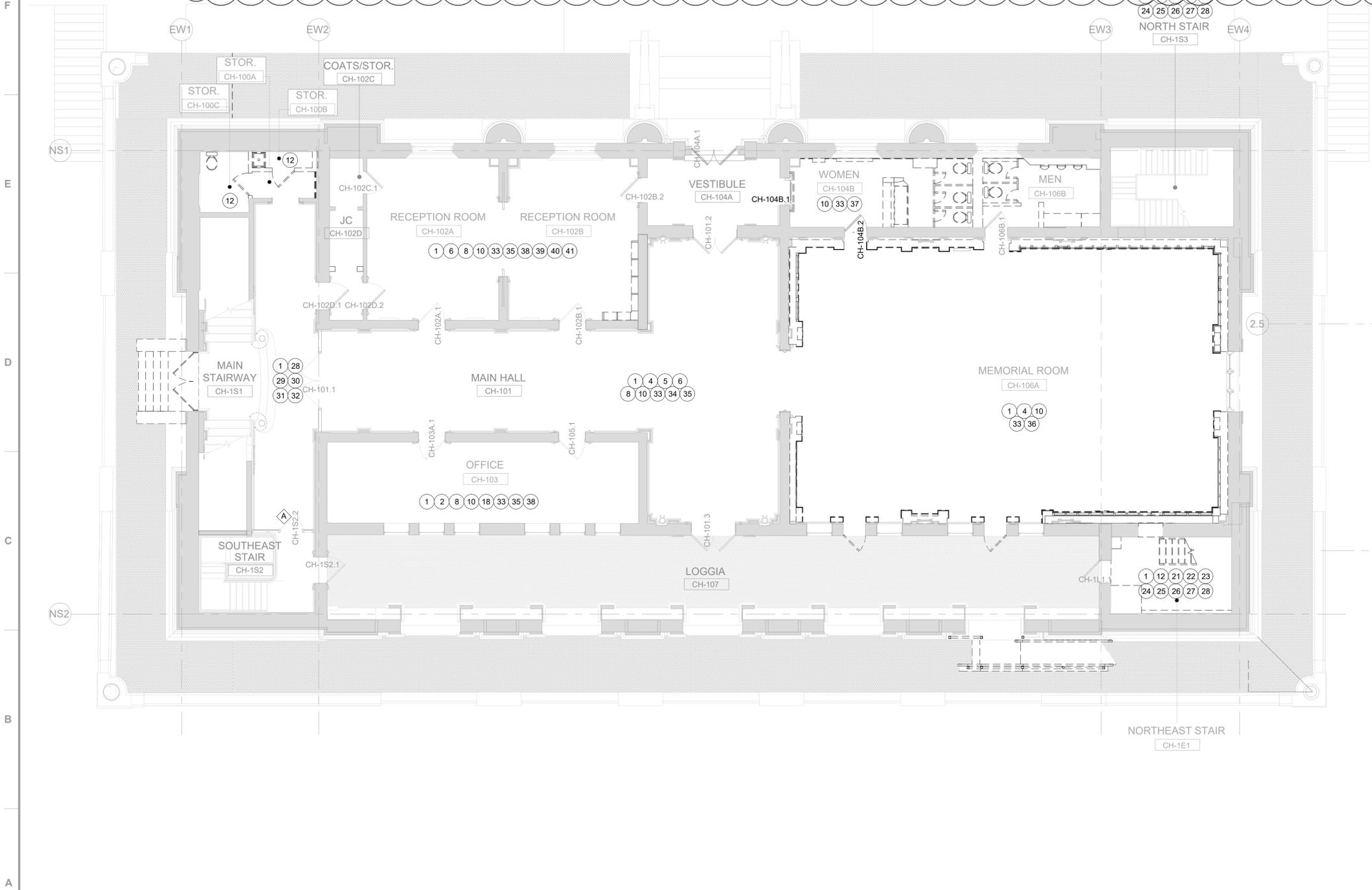
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HAZMAT PLAN - FIRST LEVEL
SCALE: 1/8" = 1'-0"





US Army Corps of Engineers

ISSUE DATE: 2/11/2021

DESIGNED BY: [Redacted]

DRAWN BY: [Redacted]

CHECKED BY: [Redacted]

PROJECT NO: 20190494

DATE: 5/21/21

AMENDMENT 7

USMA BUILDING 605 CULLUM HALL RENOVATION

HAZMAT PLAN - FIRST LEVEL

JACOBS / EWING COLE A Joint Venture

SHEET ID

H-100

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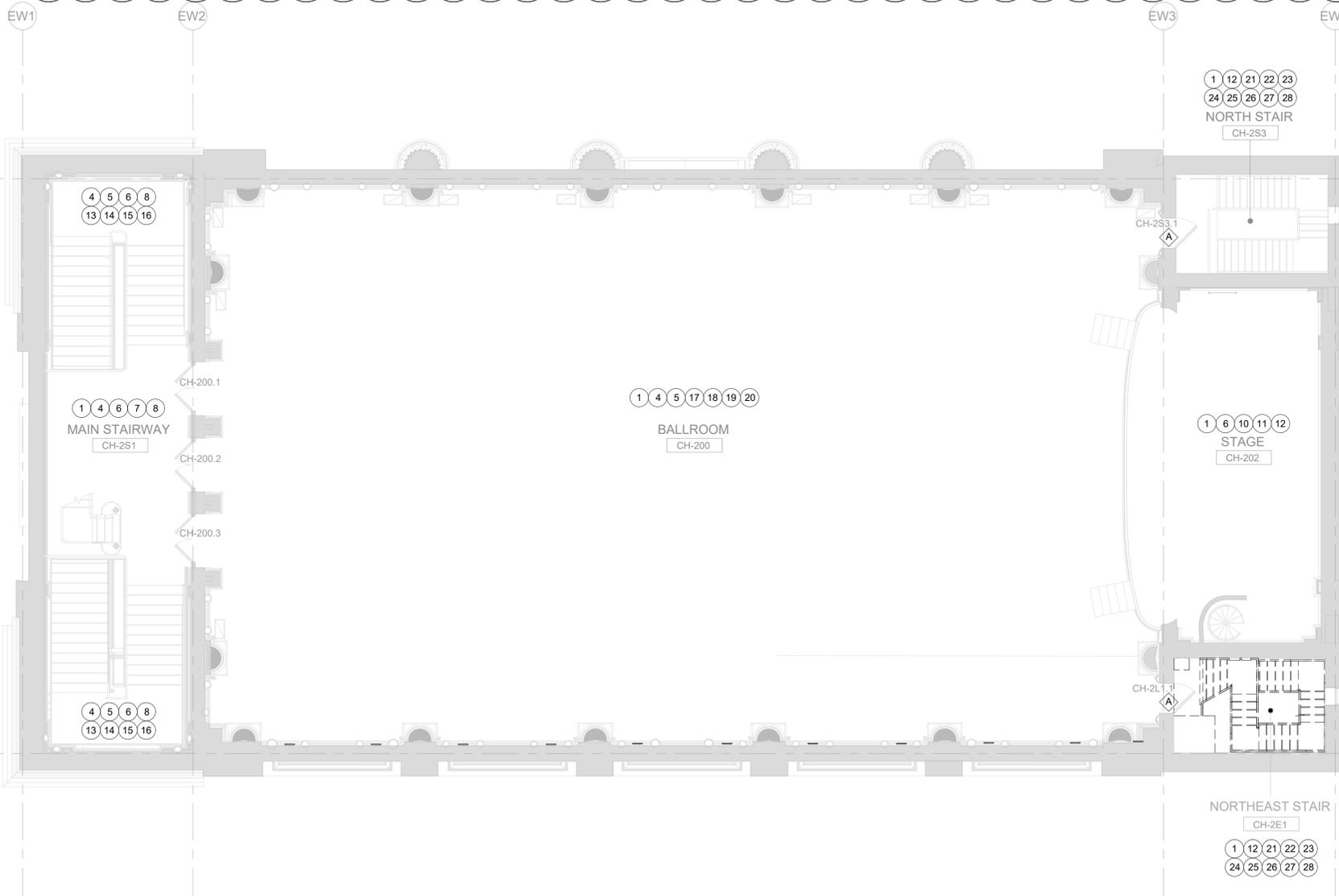
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24	DARK Green / Metal / Spindle	Non-Friction / Intact	HR, OSHA
25	DARK Green / Metal / Stair Riser	Non-Friction / Intact	HR, OSHA
26	DARK Gray / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
27	White / Wood / Door	Friction / Intact	HR, OSHA, A Encp, CA
28	White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA, A Encp, CA
29	Green / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
30	Green / Metal / Stair Spindle	Non-Friction / Intact	HR, OSHA
31	Gray / Metal / Heater	Non-Friction / Intact	HR, OSHA
32	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
33	Off White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
34	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
35	Off White / Plaster / Crown Molding	Non-Friction / Intact	HR, OSHA
36	Off White / Plaster / Baseboards	Non-Friction / Intact	HR, OSHA
37	White / Wood / Wall Molding	Non-Friction / Intact	HR, OSHA
10	Off White / Wood / Door	Friction / Intact	HR, OSHA
33	Off White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
38	Off White / Wood / Door Jamb	Friction / Intact	HR, OSHA
39	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
40	Off White / Wood / Pocket Doors	Friction / Intact	HR, OSHA
41	Off White / Wood / Pocket Door Casing	Non-Friction / Intact	HR, OSHA
42	LT. Green / Metal / Stair Spindle	Non-Friction / Intact	HR, OSHA
43	LT. Green / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
44	LT. Green / Metal / Wall Cap	Non-Friction / Intact	HR, OSHA
45	LT. Green / Wood / Baseboard	Non-Friction / Intact	HR, OSHA
46	LT. Green / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA
47	White / Plaster / Wall	Non-Friction / Intact	HR, OSHA, A Encp, CA
48	Gray / Wood / Baseboard	Non-Friction / Intact	HR, OSHA
49	Gray / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA
50	Gray / Wood / Door	Friction / Intact	HR, OSHA
51	Gray / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
52	White / Wood / Baseboard	Non-Friction / Intact	HR, OSHA, A Encp, CA
53	White / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA, A Encp, CA
54	White / Plaster / Ceiling	Non-Friction / Intact	HR, OSHA, A Encp, CA
55	White / Wood / Window Sill	Non-Friction / Intact	HR, OSHA, A Encp, CA
56	White / Sheetrock / Wall	Non-Friction / Intact	HR, OSHA
57	BLACK / Metal / Hand Rail	Friction / Intact	HR, OSHA
58	LT. Green / Concrete / Baseboard	Non-Friction / Intact	HR, OSHA
59	LT. Green / Metal / Door	Friction / Intact	HR, OSHA
60	LT. Green / Metal / Door Casing	Non-Friction / Intact	HR, OSHA
61	White / Metal / Hand Rail	Friction / Fair	HR, OSHA, A Encp
62	Yellow / Metal / Hand Rail	Friction / Fair	HR, OSHA, A Encp
63	DK Gray / Brick / Wall	Non-Friction / Fair	HR, OSHA, A Encp
64	Yellow / Metal / Duct	Non-Friction / Fair	HR, OSHA, A Encp
65	LT. Green / Wood / Door	Friction / Fair	HR, OSHA, A Encp
66	DK. Green / Brick / Column	Non-Friction / Fair	HR, OSHA, A Encp
67	Yellow / Metal / PIPE	Non-Friction / Intact	HR, OSHA, A Encp



A1 H-200 HAZMAT PLAN - SECOND LEVEL
SCALE: 1/8" = 1'-0"



US Army Corps of Engineers

ISSUE DATE: 2/11/2021

DESIGNED BY: A1

DRAWN BY: A1

CHECKED BY: KG

SUBMITTED BY: LRS

SOLICITATION NO.: W912DS-18-0031

CONTRACT NO.: W912DS-18-0031

PROJECT NO.: 20190494

SIZE: ANS/D

WEST POINT, NY

USMA BUILDING 605 CULLUM HALL RENOVATION

HAZMAT PLAN - SECOND LEVEL

US ARMY CORPS OF ENGINEERS

JACOBS / EWING COLE A Joint Venture

SHEET ID

H-200

GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC AND IS TO BE USED FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. SEE THE SPECIFICATIONS DOCUMENT FOR THE HAZARDOUS MITIGATION PLAN, DIVISION 02 ABATEMENT SPECIFICATIONS 02 82 00, 02 83 00, 02 84 10, AND 02 85 00 AND THE ASBESTOS CONTAINING MATERIALS SURVEY REPORT BY OAK GROUP FROM THE MASON AND HANGER PDR FOR MORE INFORMATION.
- ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT ASBESTOS MATERIALS AND LEAD BASED PAINT. WHERE OBSERVED, THE MATERIALS ARE NOTED ON THE PLANS.
- ALL ASBESTOS AND LEAD BASED PAINT LOCATIONS AND TESTING RESULTS WERE SUPPLIED BY A THIRD PARTY ENTITY. PLEASE REFER TO "FINAL PROJECT DEFINITION REPORT, CULLUM HALL US MILITARY ACADEMY, WEST POINT, NY, 20 MAY 2019" FOR CLARIFICATION OR OTHER ASBESTOS OR LEAD BASED PAINT INFORMATION.

SYMBOL KEY

- ◇ - DESIGNATION FOR ASBESTOS CONTAINING MATERIALS
- - DESIGNATION FOR LEAD BASED PAINT CONTAINING MATERIALS. SEE ARCHITECTURAL DRAWINGS FOR LEVEL OF ABATEMENT.
- CA - DESIGNATION FOR LEAD BASED PAINT CONTAINING MATERIALS REQUIRING COMPLETE ABATEMENT (CA). SEE GENERAL NOTE 4.
- ▬ - EXIST WALLS, DOORS TO REMAIN (SHOWN SCREENED)
- - - - - DEMOLITION WALLS, DOORS TO BE DEMOLISHED (SHOWN DASHED)

ASBESTOS NOTES

- NOT ALL OF THE ACM'S DEPICTED ON THE DRAWINGS WILL REQUIRE ABATEMENT. REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL ITEMS THAT WILL REQUIRE REMOVAL.

ASBESTOS SAMPLE SYMBOLS

KEY	MATERIAL	EST. QTY.
A	Fire Doors (Assumed)	
B	Gray 12"x12" Floor Tile	25 SF
C	Black 12"x12" Floor Tile	373 SF
D	Black Tar Paper Under Gray 12"x12" Floor Tile	398 SF

LEAD BASED PAINT NOTES

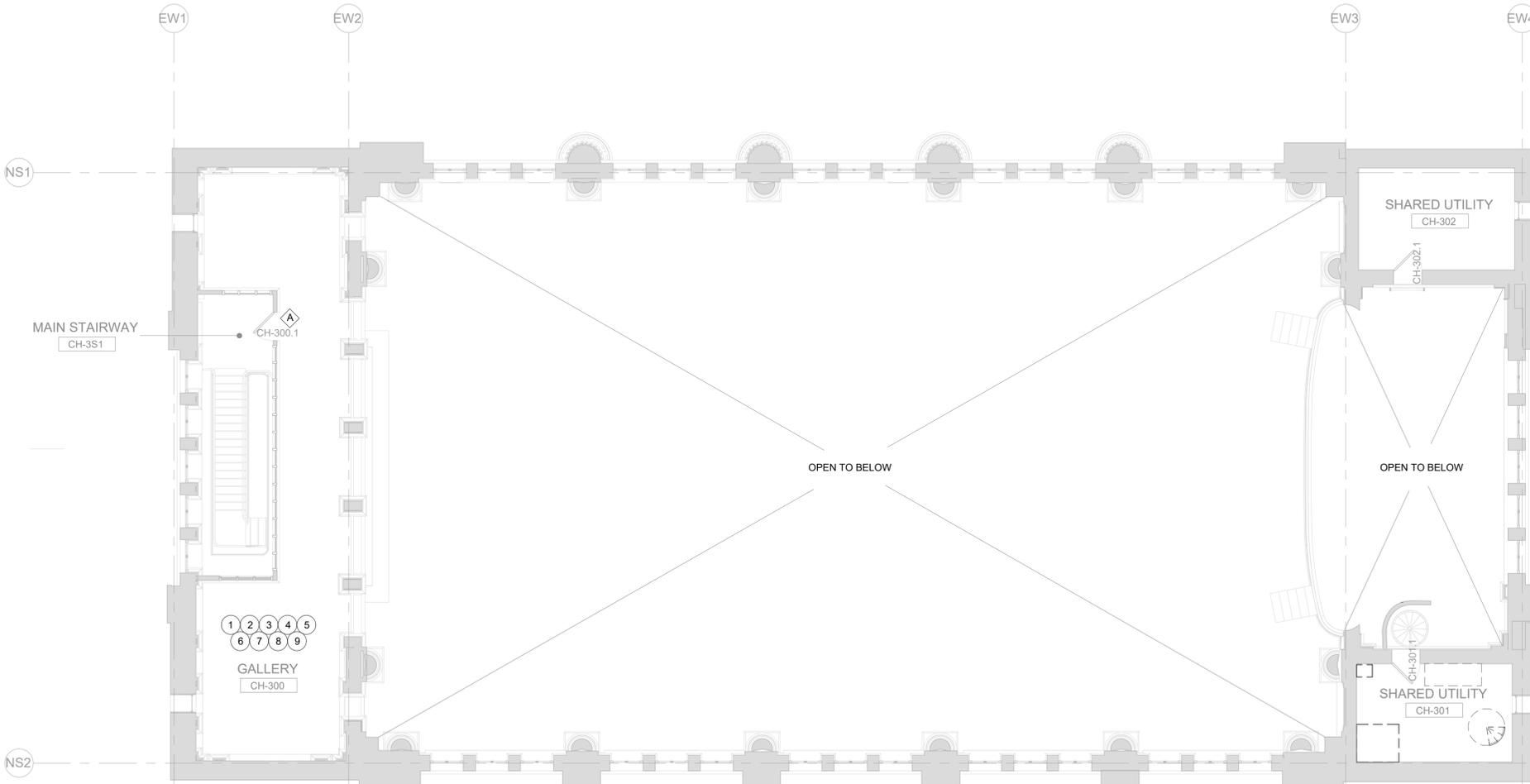
- OSHA'S LEAD IN CONSTRUCTION STANDARD APPLIES TO ALL DISTURBANCES OF LEAD BASED PAINT. IN ADDITION, THE CONTRACTOR SHALL USE METHODS TO LIMIT THE AMOUNT OF DUST PRODUCED DURING DEMOLITION OF ANY WALL AND CEILINGS CONTAINING LEAD BASED PAINT. ICRA DUST CONTROLS SHALL BE UTILIZED AT ALL TIMES.

LEAD-BASED PAINT SAMPLE KEY

CODE	RECOMMENDATION
HR	It is recommended that these surfaces be periodically observed for chalking, peeling, or cracking. If the surface is chalking, it can be cleaned with a trisodium phosphate and repainted. If the surface is peeling or cracking, it should be repaired or abated.
AR	A strategy of abatement that entails the removal of the building components coated with lead-based paint and installation of new components free of lead-based paint.
A ENCP	"Encapsulant" means a coating rigid material that relies on adhesion to a lead-based paint surface and is not mechanically fastened to the substrate with a 20 year warranty. "Encapsulation" means a process to make a lead-based paint inaccessible by providing a barrier between the lead-based paint and the environment, where the primary means of attachment for the encapsulant is bonding of a product to the surface covered either by the product itself or through the use of an adhesive.
A ENCL	"Enclosure" means the installation of a rigid, durable, barrier that is mechanically attached to building components, with all the edges and seams sealed with caulk or other sealant having a design life of at least 20 years.
CA	A process designed whether to permanently eliminate lead-based paint hazards on a component and includes but is not limited to: The removal of lead-based paint and lead-contaminated dust.
OSHA	Any painted surface that has lead content should not be sanded, demolished, or disturbed without the proper engineering controls and work methods. As spelled out under OSHA's CFR Part 1926 Lead Exposure in Construction, Interim Rule. Improper disturbance of any paint with lead content can cause lead to become airborne.
NA	X-Ray Fluorescence Spectrometer (XRF) results indicated 0.0 or below, which indicates no lead detected by the XRF Spectrometer.

LEAD BASED PAINT SAMPLE SYMBOLS

KEY	COLOR / SUBSTRATE / COMPONENT	SURFACE / CONDITION	RECOMMENDATION CODE
1	Off White / Plaster / Wall	Non-Friction / Fair	HR, OSHA, A Encp
2	Off White / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA
3	Gray / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
4	Off White / Plaster / Column	Non-Friction / Intact	HR, OSHA
5	BROWN / Plaster / Column	Non-Friction / Intact	HR, OSHA
6	Off White / Plaster / Ceiling	Non-Friction / Intact	HR, OSHA
7	BROWN / Plaster / Picture Rail	Non-Friction / Intact	HR, OSHA
8	BROWN / Plaster / Crown Molding	Non-Friction / Intact	HR, OSHA
9	Off White / Wood / Window Sill	Non-Friction / Intact	HR, OSHA
10	Off White / Wood / Door	Friction / Intact	HR, OSHA
11	Off White / Wood / Door Jamb	Friction / Intact	HR, OSHA
12	White / Wood / Window Casing	Non-Friction / Intact	HR, OSHA, A Encp, CA
13	Green / Concrete / Baseboard	Non-Friction / Intact	HR, OSHA
14	Gray / Metal / Spindle	Non-Friction / Intact	HR, OSHA
15	Gray / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
16	Gray / Metal / Wall Cap	Non-Friction / Intact	HR, OSHA
17	Green / Plaster / Column BASE	Non-Friction / Intact	HR, OSHA
18	Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
19	BROWN / Wood / Door	Friction / Intact	HR, OSHA
20	BROWN / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
21	Gray / Concrete / Floor	Friction / Intact	HR, OSHA
22	Gray / Concrete / Stair Tred	Friction / Intact	HR, OSHA
23	DARK Green / Metal / Hand Rail	Friction / Intact	HR, OSHA
24	DARK Green / Metal / Spindle	Non-Friction / Intact	HR, OSHA
25	DARK Green / Metal / Stair Riser	Non-Friction / Intact	HR, OSHA
26	DARK Gray / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
27	White / Wood / Door	Friction / Intact	HR, OSHA, A Encp, CA
28	White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA, A Encp, CA
29	Green / Metal / Stair Stringer	Non-Friction / Intact	HR, OSHA
30	Green / Metal / Stair Spindle	Non-Friction / Intact	HR, OSHA
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32	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
33	Off White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
34	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
35	Off White / Plaster / Crown Molding	Non-Friction / Intact	HR, OSHA
36	Off White / Plaster / Baseboards	Non-Friction / Intact	HR, OSHA
37	White / Wood / Wall Molding	Non-Friction / Intact	HR, OSHA
10	Off White / Wood / Door	Friction / Intact	HR, OSHA
33	Off White / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
38	Off White / Wood / Door Jamb	Friction / Intact	HR, OSHA
39	DK. Green / Plaster / Baseboard	Non-Friction / Intact	HR, OSHA
40	Off White / Wood / Pocket Doors	Friction / Intact	HR, OSHA
41	Off White / Wood / Pocket Door Casing	Non-Friction / Intact	HR, OSHA
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46	LT. Green / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA
47	White / Plaster / Wall	Non-Friction / Intact	HR, OSHA, A Encp, CA
48	Gray / Wood / Baseboard	Non-Friction / Intact	HR, OSHA
49	Gray / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA
50	Gray / Wood / Door	Friction / Intact	HR, OSHA
51	Gray / Wood / Door Casing	Non-Friction / Intact	HR, OSHA
52	White / Wood / Baseboard	Non-Friction / Intact	HR, OSHA, A Encp, CA
53	White / Wood / Chair Rail	Non-Friction / Intact	HR, OSHA, A Encp, CA
54	White / Plaster / Ceiling	Non-Friction / Intact	HR, OSHA, A Encp, CA
55	White / Wood / Window Sill	Non-Friction / Intact	HR, OSHA, A Encp, CA
56	White / Sheetrock / Wall	Non-Friction / Intact	HR, OSHA
57	BLACK / Metal / Hand Rail	Friction / Intact	HR, OSHA
58	LT. Green / Concrete / Baseboard	Non-Friction / Intact	HR, OSHA
59	LT. Green / Metal / Door	Friction / Intact	HR, OSHA
60	LT. Green / Metal / Door Casing	Non-Friction / Intact	HR, OSHA
61	White / Metal / Hand Rail	Friction / Fair	HR, OSHA, A Encp
62	Yellow / Metal / Hand Rail	Friction / Fair	HR, OSHA, A Encp
63	DK Gray / Brick / Wall	Non-Friction / Fair	HR, OSHA, A Encp
64	Yellow / Metal / Duct	Non-Friction / Fair	HR, OSHA, A Encp
65	LT. Green / Wood / Door	Friction / Fair	HR, OSHA, A Encp
66	DK. Green / Brick / Column	Non-Friction / Fair	HR, OSHA, A Encp
67	Yellow / Metal / PIPE	Non-Friction / Intact	HR, OSHA, A Encp



HAZMAT PLAN - THIRD LEVEL
SCALE: 1/8" = 1'-0"



US Army Corps of Engineers
of Engineers®

ISSUE DATE: 2/11/2021
DESIGNED BY: A
DRAWN BY: A
CHECKED BY: KG
SUBMITTED BY: LRS
PROJECT NO: 20190494
SIZE: ANS/D

US ARMY CORPS OF ENGINEERS
WEST POINT, NY
USMA BUILDING 605 CULLUM HALL RENOVATION
HAZMAT PLAN - THIRD FLOOR
JACOBS / EWING / COLE
A Joint Venture

SHEET ID
H-300

ABBREVIATIONS

Table of abbreviations including A.B. ANCHOR BOLT, ACI AMERICAN CONCRETE INSTITUTE, ADJMT. ADJUSTMENT, etc.

GENERAL NOTES

- GENERAL NOTES: 1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE BEFORE ORDERING ANY MATERIALS AND BEGINNING ANY WORK... 2. THE CONTRACTOR MUST BE RESPONSIBLE FOR ALL WORK AND COORDINATION INVOLVED TO PROVIDE ALL OPENINGS SHOWN ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS...

CONCRETE NOTES

- CONCRETE NOTES: 1. CONCRETE MUST HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: INTERIOR FOUNDATIONS, PIERS AND PEDESTALS 4000 PSI, EXTERIOR SLAB ON GRADE 4500 PSI, INTERIOR SLAB ON GRADE (NOTED S1 IN PLAN) 4000 PSI...

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL NOTES: 1. STRUCTURAL STEEL MUST CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS. WIDE FLANGE AND WT SHAPES ASTM A992/A992M GRADE 50, BASE PLATES, COLUMN CAPS, MOMENT PLATES, GUSSET PLATES, WEB PLATES, AND SPLICE PLATES ASTM A572/A572M GRADE 50...

METAL DECK NOTES

- METAL DECK NOTES: 1. METAL DECK MUST CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI). 2. COMPOSITE METAL FLOOR DECK SUPPORTING LIGHT WEIGHT CONCRETE SLAB MUST BE CONTINUOUS OVER A MINIMUM OF TWO OR MORE SPANS UNLESS INDICATED OTHERWISE.

STRUCTURAL DRAWING INDEX

Table with columns for drawing number, description, and revision status. Includes drawings S-001 through S-601.

DESIGN CRITERIA UFC 3-301-01 / ASCE 7-16 / IBC 2018

FLOOR DESIGN LIVE LOADS (SEE DIAGRAMS ON S-003). Table listing load types like CATWALKS / DUNNAGE PLATFORMS (AROUND EQUIPMENT) at 40 PSF, OFFICE PLUS PARTITIONS at 50 PSF+20 PSF, etc.

COLLATERAL LOADS (SUPERIMPOSED DEAD LOADS)*. Table listing loads like BALCONY/TERRACE at 125 PSF, LIBRARY STACK ROOMS at 45 PSF, EXISTING FLOORS at 15 PSF, etc.

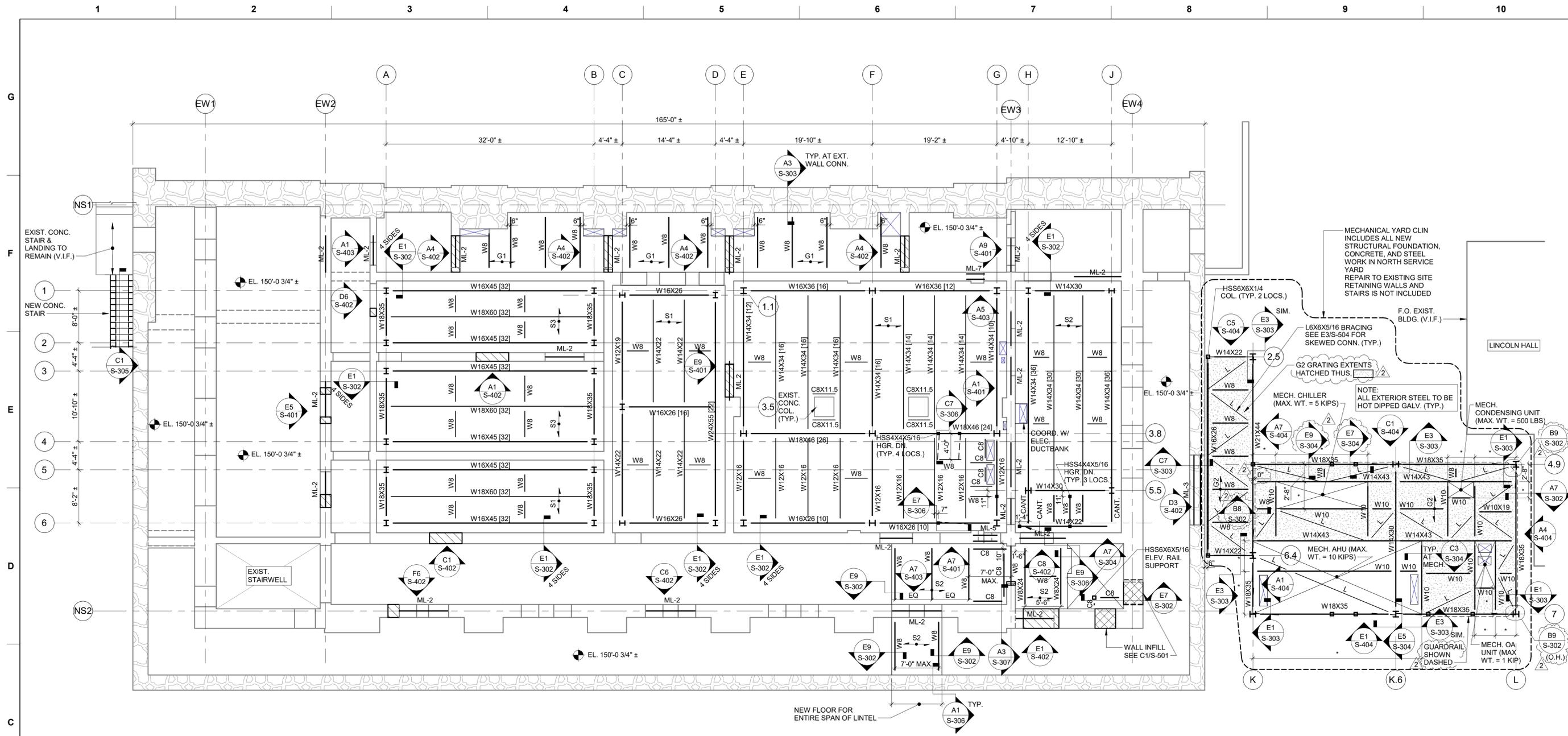
ROOF DESIGN LIVE LOADS. Table listing ROOF at 20 PSF. DEFLECTION CRITERIA: DEAD LOAD; EXISTING BUILDING DEAD LOAD DEFLECTIONS HAVE BEEN FULLY EXPERIENCED AND HAVE NOT BEEN CONSIDERED FOR DESIGN...

SNOW LOADS (CRITERIA IDENTIFIED IN STRUCTURAL LOAD DATA TOOL, HOSTED ON WHOLE BUILDING DESIGN GUIDE WEBSITE). Table listing GROUND SNOW LOAD, FLAT ROOF SNOW LOAD (USED FOR DESIGN) at Pg=30 PSF, MAXIMUM DRIFT LOAD (FOR AREAS OF SNOW BUILD UP)* at Pf=30 PSF*, etc.

LATERAL LOADS - WIND (CRITERIA IDENTIFIED IN STRUCTURAL LOAD DATA TOOL, HOSTED ON WHOLE BUILDING DESIGN GUIDE WEBSITE). Table listing WIND LOAD DESIGN PARAMETERS: BASIC WIND SPEED, V=122 MPH; WIND EXPOSURE, D; INTERNAL PRESSURE COEFFICIENT, GCpf=±0.18...

LATERAL LOADS - SEISMIC (CRITERIA IDENTIFIED IN STRUCTURAL LOAD DATA TOOL, HOSTED ON WHOLE BUILDING DESIGN GUIDE WEBSITE). Table listing RISK CATEGORY, III; SEISMIC IMPORTANCE FACTOR, I=1.25; SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, Ss=0.26g; 1-SECOND MAPPED SPECTRAL RESPONSE ACCELERATION, S1=0.06g; LONG PERIOD TRANSITION PERIOD, T1=6; SITE CLASS, C; SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT, Sps=0.226; 1-SECOND PERIOD SPECTRAL RESPONSE COEFFICIENT, Sp1=0.059; SEISMIC DESIGN CATEGORY, B; ANALYSIS PROCEDURE, EQUIV. LAT. FORCE; BASIC SEISMIC-FORCE-RESISTING SYSTEM, ORDINARY PLAIN MASONRY SHEAR WALLS; RESPONSE MODIFICATION FACTOR, R=1.5.

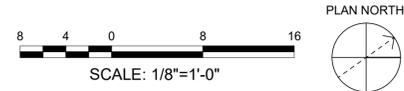
US Army Corps of Engineers logo and project information including ISSUE DATE: 02/11/2021, SOLICITATION NO.: W017ZDS-19-0031, CONTRACT NO.: W017ZDS-19-0031, PROJECT NO.: 20190454, and SHEET ID S-001.



C1 LEVEL B1 FRAMING PLAN
1/8" = 1'-0"

- LEVEL B1 / FRAMING PLAN LEGEND**
- DENOTES NEW OPENING OR EXISTING OPENING TO BE ENLARGED/MODIFIED IN EXISTING WALL.
 - DENOTES INFILL EXISTING WALL OPENING SEE DETAIL C1/S-501.
 - DENOTES EXISTING STONE WALL.
 - S1**
 DENOTES SPAN OF 3-1/4 INCH LIGHTWEIGHT CONCRETE SLAB ON 2-INCH BY 20-GAUGE GALVANIZED COMPOSITE METAL DECK. PROVIDE 2" LIGHT WEIGHT CONCRETE TOPPING SLAB ON STRUCTURAL SLAB ON DECK. (TOTAL SLAB THICKNESS = 5-1/4 INCHES STRUCTURAL SLAB + 2" TOPPING SLAB = 7-1/4 INCHES). BOTH SLABS ARE REINFORCED WITH 6x6-W1.4xW1.4 W.W.F. MAINTAIN WELDED WIRE MESH LEVEL TO ACHIEVE MINIMUM COVER. TOP OF TOPPING SLAB EL. 150'-0 3/4"± TO MATCH EXISTING ADJACENT TOP OF FINISHED FLOOR. TOP OF STRUCTURAL SLAB EL. 149'-10 3/4"±. TOP OF STEEL EL. = 149'-5 1/2"±.
 - S2**
 DENOTES SPAN OF 3-1/4 INCH LIGHTWEIGHT CONCRETE SLAB ON 2-INCH BY 20-GAUGE GALVANIZED COMPOSITE METAL DECK. REINFORCED WITH 6x6-W1.4xW1.4 W.W.F. (TOTAL SLAB THICKNESS = 5-1/4 INCHES). MAINTAIN WELDED WIRE MESH LEVEL TO ACHIEVE MINIMUM COVER. TOP OF SLAB EL. 150'-0 3/4"± TO MATCH EXISTING ADJACENT TOP OF FINISHED FLOOR. TOP OF STEEL EL. = 149'-7 1/2"±.
 - S3**
 DENOTES SPAN OF 3-1/4 INCH LIGHTWEIGHT CONCRETE SLAB ON 2-INCH BY 20-GAUGE GALVANIZED COMPOSITE METAL DECK. REINFORCED WITH 6x6-W1.4xW1.4 W.W.F. (TOTAL SLAB THICKNESS = 5-1/4 INCHES). MAINTAIN WELDED WIRE MESH LEVEL TO ACHIEVE MINIMUM COVER. TOP OF SLAB EL. 149'-10 3/4"± TO MATCH EXISTING ADJACENT TOP OF FINISHED FLOOR. TOP OF STEEL EL. = 149'-5 1/2"±.
 - G1**
 DENOTES SPAN OF 1-1/2"x3/16" BAR GRATING. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS. TOP OF GRATING EL. 150'-0 3/4"± TO MATCH EXISTING ADJACENT TOP OF FLOOR. TOP OF STEEL EL. 149'-11 1/4"±.
 - G2**
 DENOTES SPAN OF 1-1/2"x3/16" GALVANIZED BAR GRATING. TOP OF DUNNAGE STEEL EL. 147'-5".
 - DENOTES TOP OF EXISTING FINISHED FLOOR ELEVATION.

- LEVEL B1 NOTES:**
1. TOP OF EXISTING FINISHED FLOOR ELEVATIONS ARE NOTED IN PLAN. EXISTING FLOOR CONSISTS OF STRUCTURAL FLAT CLAY TILE ARCH CONSTRUCTION. THE FLAT TILE ARCH CONSTRUCTION IS ASSUMED TO BE SUPPORTED BY STEEL WIDE FLANGE BEAMS OF UNKNOWN SIZE AND SPACING. A CONCRETE TOPPING SLAB PROVIDES A SUBSTRATE FOR THE FLOORING. BEAMS SPAN TO MULTI-WYTHE BRICK AND STONE BEARING WALLS. EXISTING DEPTH OF STRUCTURE IS ESTIMATED TO BE 16". FLOOR CONSTRUCTION MUST BE VERIFIED IN FIELD. TAKE CARE NOT TO DAMAGE EXISTING CLAY TILE FLOOR CONSTRUCTION OR CONCRETE TOPPING DURING DEMOLITION OR CONSTRUCTION OPERATIONS.
 2. TEXT INDICATED THUS [] IN PLAN INDICATES THE NUMBER OF EQUALLY SPACED 3/4-INCH DIAMETER x 4-INCH TYP. LONG HEADED SHEAR STUDS WELDED TO THE TOP FLANGE ALONG CENTERLINE OF BEAMS. PROVIDE (2) ROWS OF EQUALLY SPACED STUDS CENTERED ON BEAM WHEN QUANTITY IS GREATER THAN ONE STUD PER DECK FLUTE. SEE A5/S-503 FOR MORE INFORMATION.
 3. COORDINATE SIZE AND LOCATION OF ALL FLOOR AND WALL OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND TYPICAL DETAILS. FRAME SLAB OPENINGS IN ACCORDANCE WITH TYPICAL DETAIL E7/S-503 AND DETAILS ON S-504. SEE S-401-S-403 AND RELATED SECTIONS FOR LINTELS AT WALL OPENINGS. REFER TO TYPICAL DETAILS FOR LINTELS NOT SPECIFICALLY SHOWN ON WALL ELEVATIONS. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.
 4. DESIGN BASIS DUNNAGE PLATFORM EQUIPMENT WEIGHTS ARE INDICATED ON PLAN. NOTIFY COR IF ACTUAL EQUIPMENT PURCHASED EXCEEDS THE DESIGN WEIGHTS.
 5. COORDINATE ALL DIMENSIONS INDICATED THUS (*) WITH EQUIPMENT MANUFACTURER.
 6. W8 DENOTES W8x18. W10 DENOTES W10x33. C8 DENOTES C8x11.5. L DENOTES L6x6x5/16 BRACING.
 7. IT IS PERMITTED TO SPLICE STEEL BEAMS AND COLUMNS TO INSTALL FRAMING AND CONSTRUCT NEW FLOOR INFILLS. SEE DETAILS ON DRAWING S-503 FOR MORE INFORMATION.
 8. IT IS NOT PERMITTED TO ANCHOR TO, OR SUPPORT FROM, THE EXISTING CLAY TILE ARCH FLOOR CONSTRUCTION. UTILITIES, DUCTWORK, LIGHTING, ARCHITECTURAL ELEMENTS, ETC. MUST BE SUPPORTED BY SECONDARY FRAMING, ATTACHED TO THE EXISTING PRIMARY STEEL FLOOR FRAMING. DESIGN OF SECONDARY FRAMING AND CONNECTIONS TO STEEL MUST BE PERFORMED BY THE CONTRACTOR'S LICENSED ENGINEER. REFER TO TYPICAL DETAIL E5/S-504 AND RELATED SPECIFICATIONS.
 9. SEE DRAWINGS S-001 AND S-002 FOR ADDITIONAL NOTES AND LINTEL SCHEDULE, S-601 FOR COLUMN SCHEDULE AND S-501 FOR TYPICAL DETAILS.



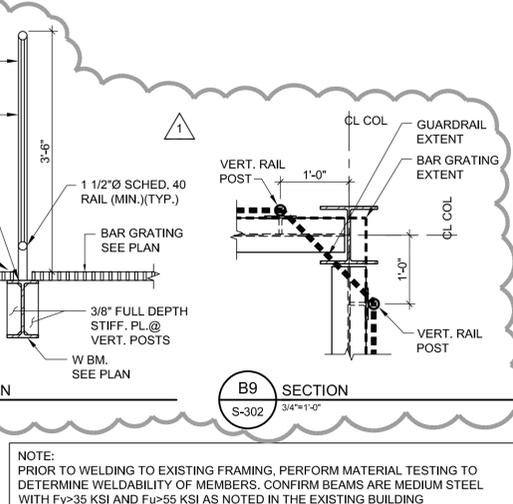
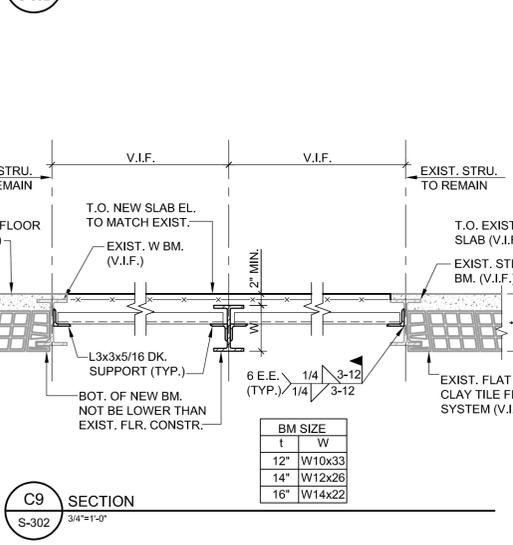
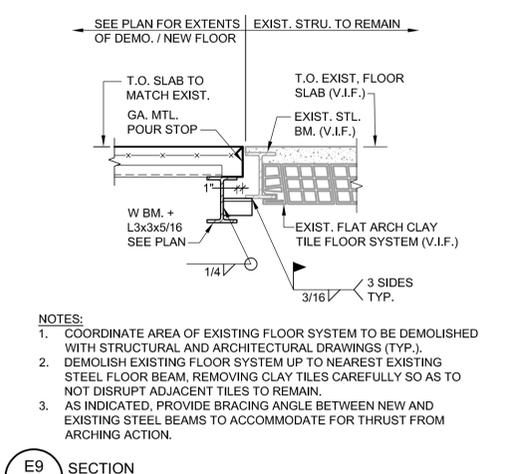
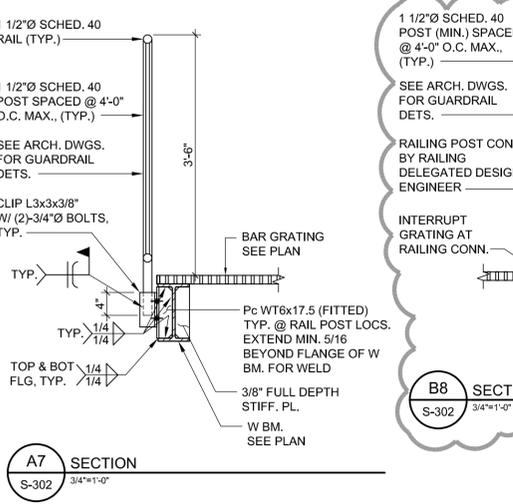
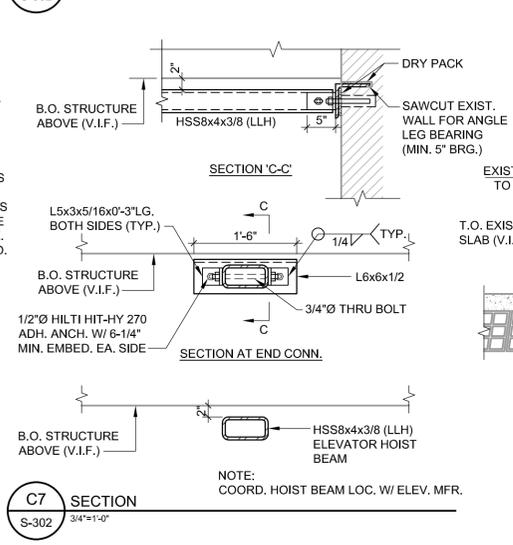
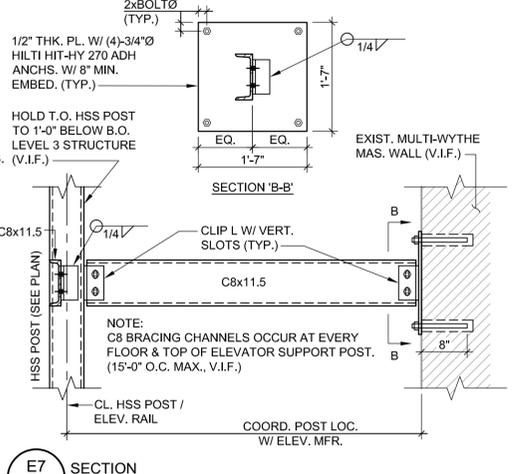
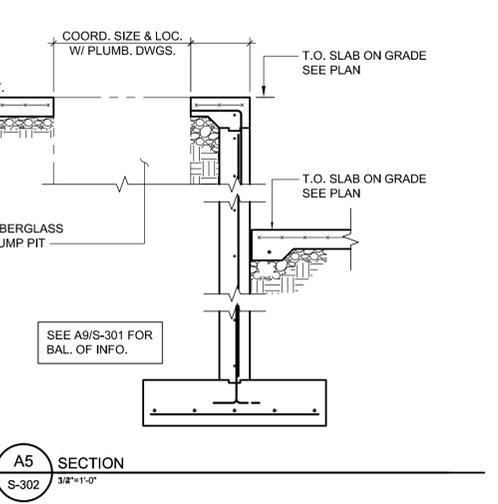
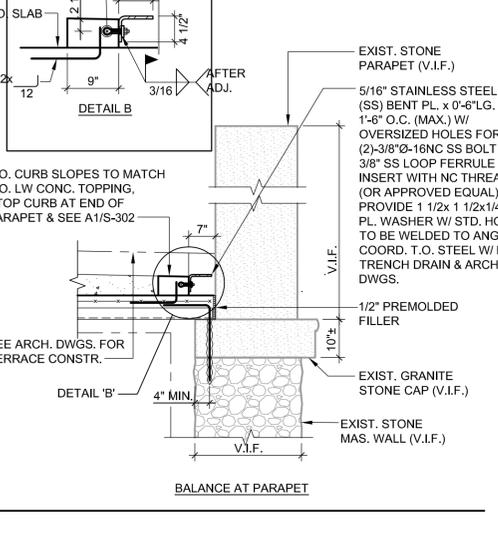
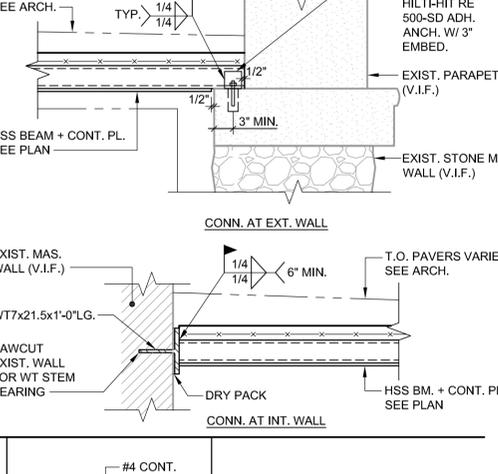
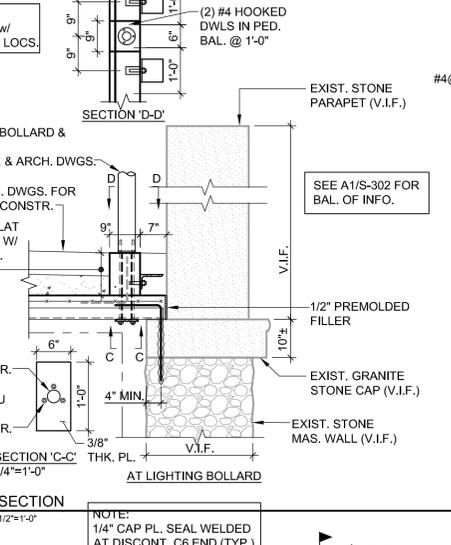
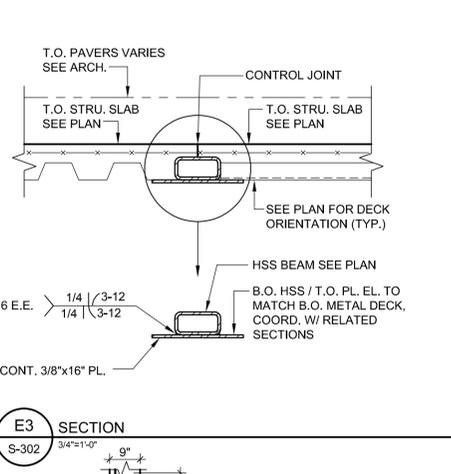
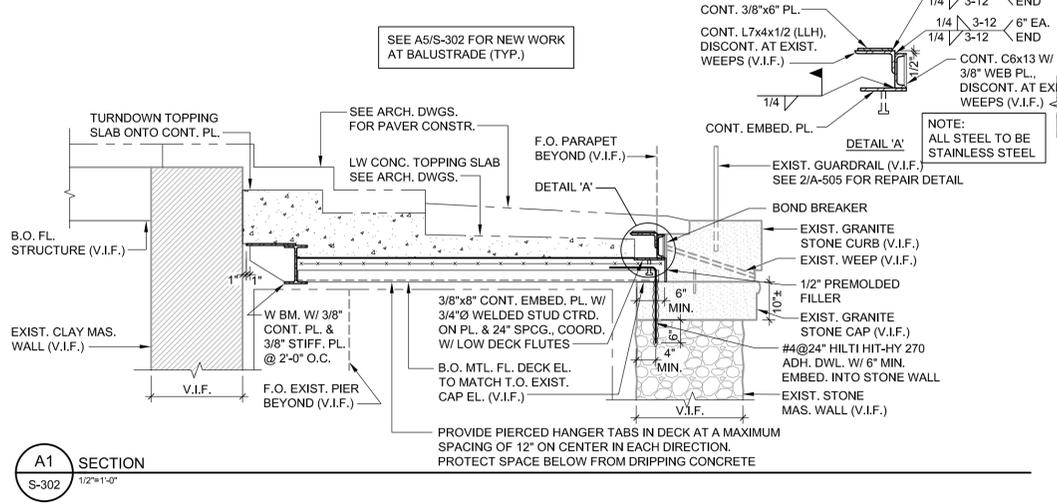
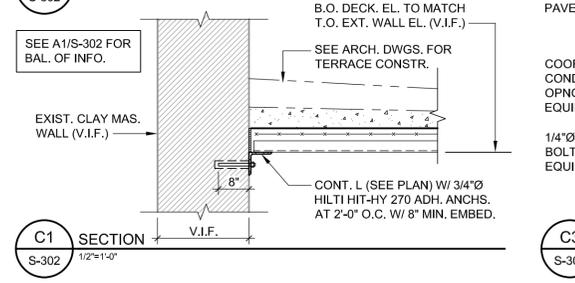
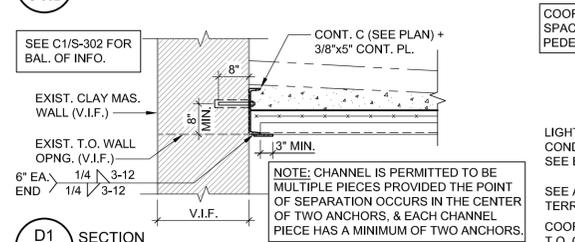
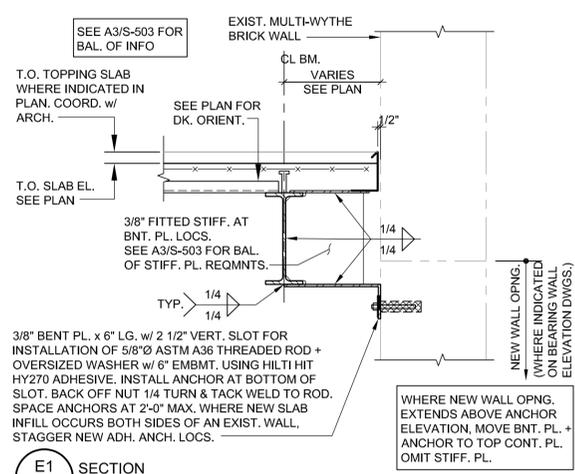
ISSUE DATE:	ISSUE DESCRIPTION:	DATE
02/11/2021	RTA SUBMISSION	2/11/2021
02/11/2021	AMENDMENT 7	2/11/2021

DESIGNED BY:	ISSUE DATE:
CHKD BY:	02/11/2021
APP'D BY:	NO. OF REVISIONS:
PC	4
PC	CONTRACT NO.:
PC	W912DS-19-C0031
PC	PROJECT NO.:
PC	20190494
PC	SIZE:
ANSI	ANSI

USMA BUILDING 605 CULLUM HALL RENOVATION
LEVEL B1 FLOOR FRAMING PLAN

SHEET ID
S-102

G
F
E
D
C
B
A



NOTES:
PRIOR TO WELDING TO EXISTING FRAMING, PERFORM MATERIAL TESTING TO DETERMINE WELDABILITY OF MEMBERS. CONFIRM BEAMS ARE MEDIUM STEEL WITH F_y ≥ 35 KSI AND F_u ≥ 55 KSI AS NOTED IN THE EXISTING BUILDING SPECIFICATIONS (ATTACHED TO DESIGN ANALYSIS HANDBOOK IN VOLUME 8.)
TEXT IN EXISTING SPECIFICATIONS IS WRITTEN THUS, "ALL ROLLED OR RIVETED GIRDERS, BEAMS, ROOF TRUSSES, RATERS, PURLINS, FURRING FOR CEILINGS, OR OTHER STRUCTURAL WORK, UNLESS OTHERWISE DIRECTED OR SHOWN ON PLANS, TO BE MADE TO DIMENSIONS GIVEN, OF MEDIUM STEEL OF SUCH QUALITY AS WILL FILL THE REQUIREMENTS GIVEN BELOW: ULTIMATE TENSILE STRENGTH 55,000 TO 65,000 LBS. PER SQUARE INCH. ELASTIC LIMIT NOT LESS THAN 35,000 LBS. PER SQUARE INCH."

US Army Corps of Engineers

ISSUE DATE: 02/11/2021
 SOLICITATION NO.: W17J20Z1
 DRAWN BY: KMK
 CHECKED BY: AP
 PROJECT NO.: W17JDS-19-C0031
 SUBMITTED BY: PC
 PROJECT NO.: 20190494

DESIGNED BY: KMK
 DRAWN BY: KMK
 CHECKED BY: AP
 SUBMITTED BY: PC

US ARMY CORPS OF ENGINEERS

WEST POINT, NY
 USMA BUILDING 605 CULLUM HALL RENOVATION

SECTIONS

SHEET ID
S-302

RTA SUBMISSION 02/11/2021

THIS DRAWING IS FOR MOUNTING LOCATION INFORMATION ONLY. SOME ITEMS OR CONDITIONS MAY BE SHOWN WHICH ARE NOT INCLUDED IN THIS PROJECT. THEY MAY BE DISREGARDED.

IF WITHIN THE DOCUMENTS THERE ARE CONDITIONS OR STATEMENTS WHICH CONFLICT WITH THESE GUIDELINES, NOTIFY THE ARCHITECTURAL REPRESENTATIVE IMMEDIATELY FOR FURTHER DIRECTIONS.

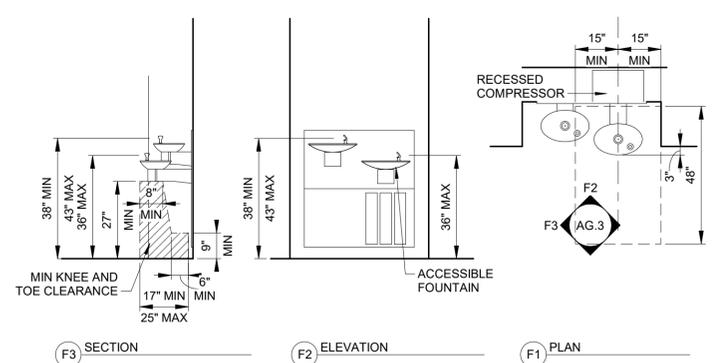
G

ACCESSORY LEGEND

- TA-1 SURFACE TOILET TISSUE DISPENSER ROLL TYPE
- TA-2 **NOT USED**
- TA-3 SURFACE PAPER TOWEL DISPENSER C FOLD - LARGE
- TA-4 **NOT USED**
- TA-5 **NOT USED**
- TA-6 ELECTRIC HAND DRYER
- TA-7 **NOT USED**
- TA-8 SURFACE NAPKIN / TAMPON VENDOR
- TA-9 **NOT USED**
- TA-10 SURFACE NAPKIN DISPOSAL
- TA-11 **NOT USED**
- TA-12 **NOT USED**
- TA-13 SURFACE SOAP DISPENSER
- TA-14 **NOT USED**
- TA-15 **NOT USED**
- TA-16 SURFACE SEAT COVER DISPENSER
- TA-17 **NOT USED**
- TA-18 **NOT USED**
- TA-19 MOP STRIP (TAG NOT SHOWN, PROVIDE AT ALL MOP SINKS.)
- TA-20 FRAMED MIRROR
- TA-21 **NOT USED**
- TA-22 **NOT USED**
- TA-23 SURFACE BABY CHANGING STATION HORIZONTAL
- TA-24 **NOT USED**
- TA-25 **NOT USED**
- TA-26 **NOT USED**
- TA-27 **NOT USED**
- TA-28 GRAB BAR STRAIGHT HORIZONTAL
- TA-29 GRAB BAR STRAIGHT VERTICAL
- TA-30 **NOT USED**
- TA-31 **NOT USED**

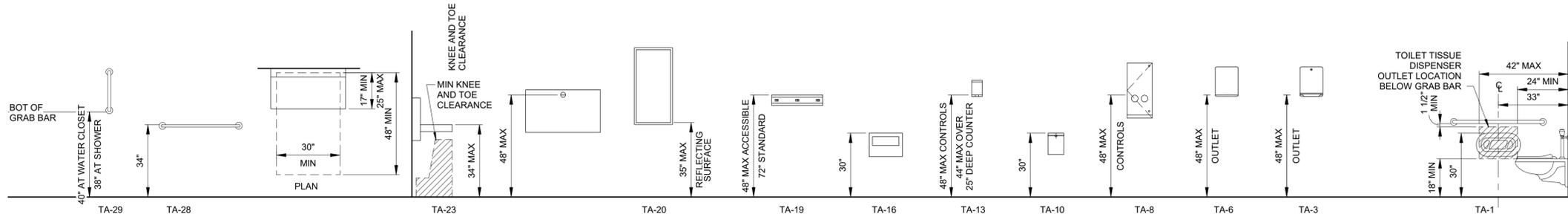
NOTES:
 1. DIMENSIONS ARE TO FACE OF WALL FINISH.
 2. WARM AIR DRYERS ARE LISTED SEPARATELY

F



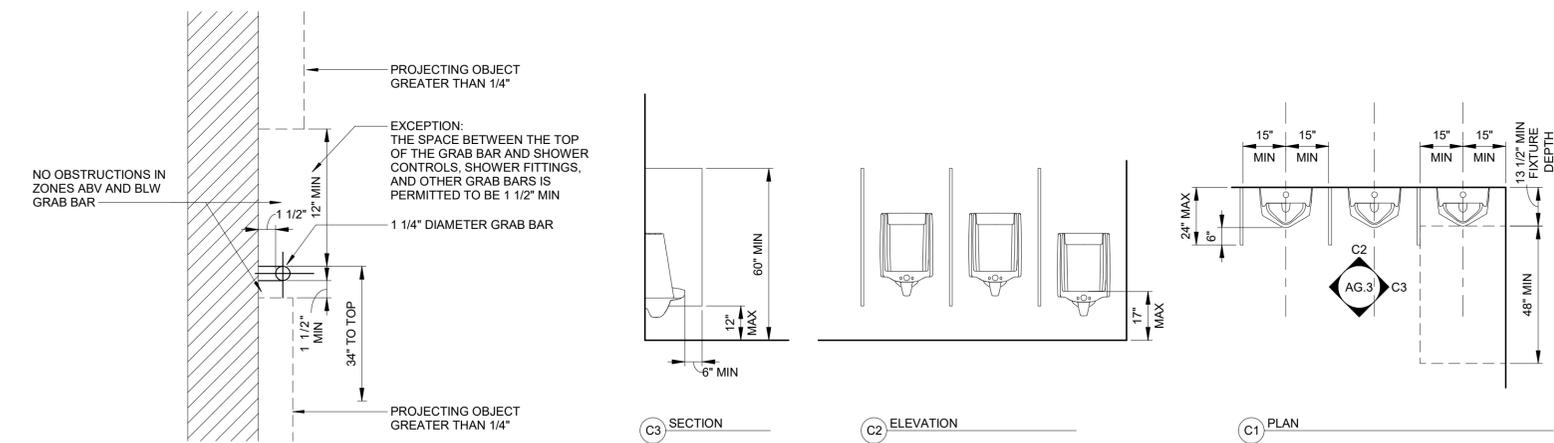
F ACCESSIBLE AND NON-ACCESSIBLE RECESSED DRINKING FOUNTAIN
 SCALE: 3/8" = 1'-0"

E



E ACCESSORY MOUNTING HEIGHTS
 SCALE: 3/8" = 1'-0"
 1. 48" MAX HEIGHT IS FOR UNOBSTRUCTED FORWARD REACH. 2. ALL OF AN OPERABLE PART IS TO BE WITHIN MOUNTING HEIGHT. 3. RECESSED FIXTURES SHOULD NOT BE LOCATED IN FIRE RATED PARTITIONS.
 4. FOR SURFACE MOUNTED ACCESSORIES AND RECESSED ACCESSORIES PROJECTING MORE THAN 1/4" MAX, COORDINATE CLEARANCE AROUND GRAB BARS. SEE DETAIL G.

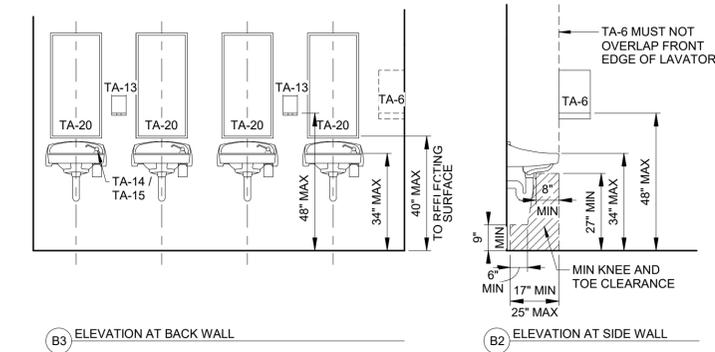
D



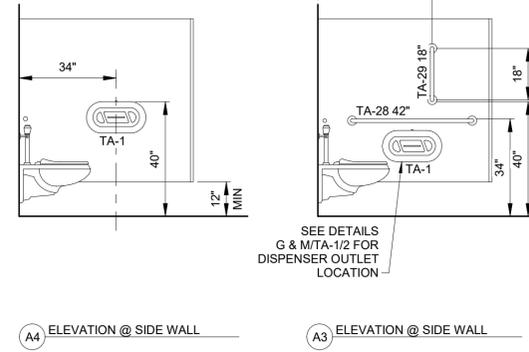
D GRAB BAR SPACING
 SCALE: 1/2" = 1'-0"

C ACCESSIBLE AND NON-ACCESSIBLE URINALS
 SCALE: 3/8" = 1'-0"

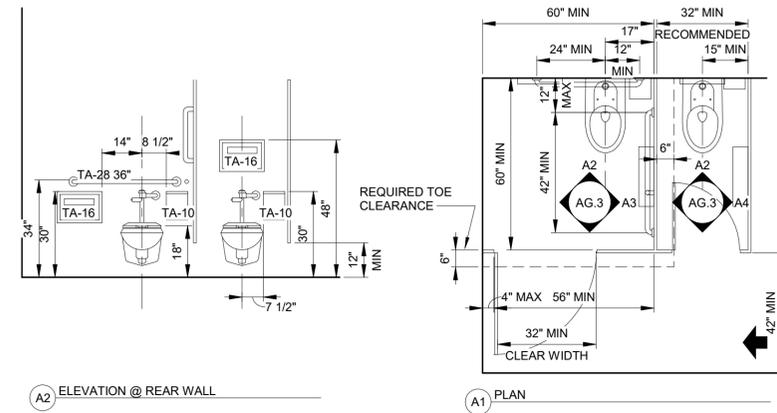
B



B ACCESSIBLE AND NON-ACCESSIBLE LAVATORIES
 SCALE: 3/8" = 1'-0"



A ACCESSIBLE AND NON-ACCESSIBLE TOILET COMPARTMENTS
 SCALE: 3/8" = 1'-0"



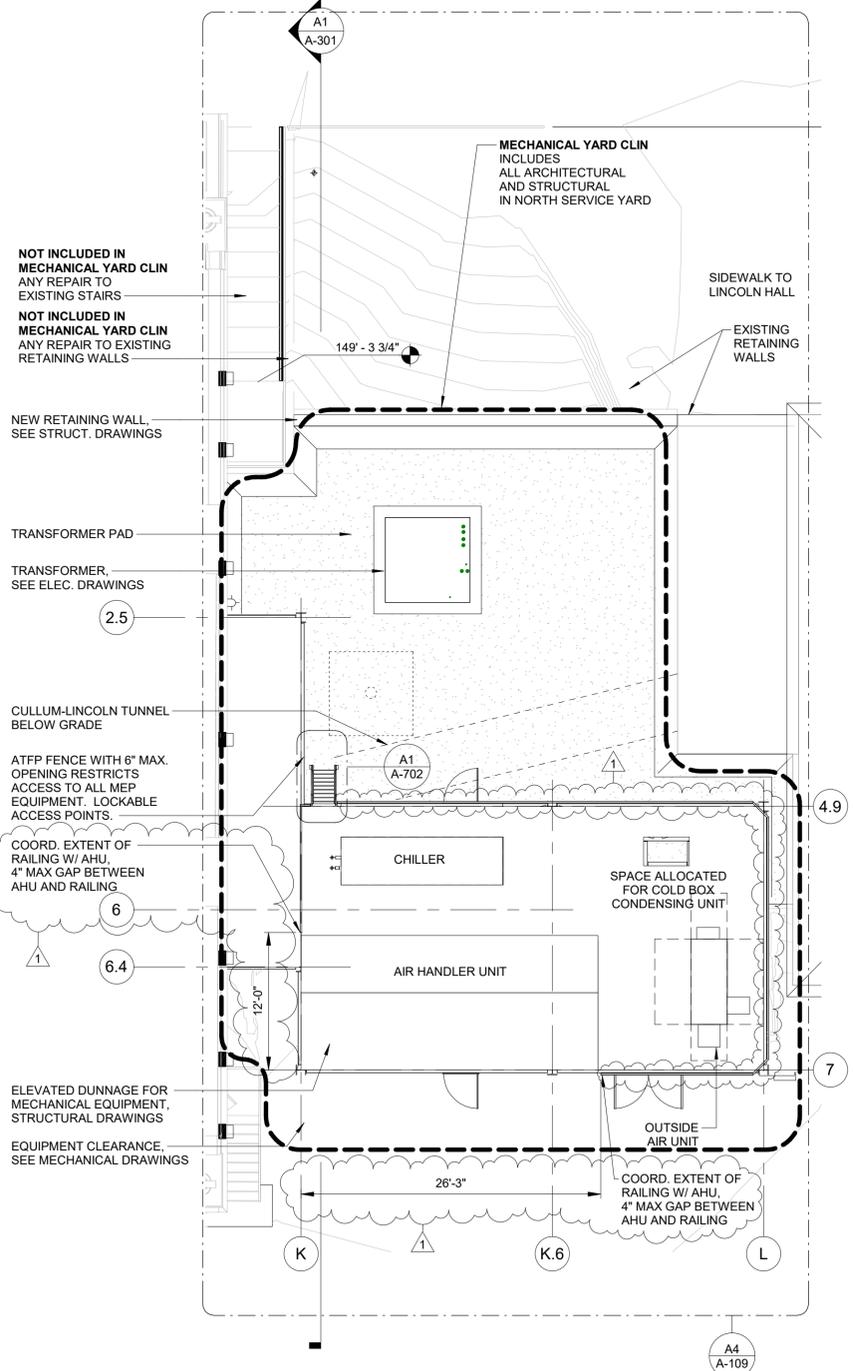
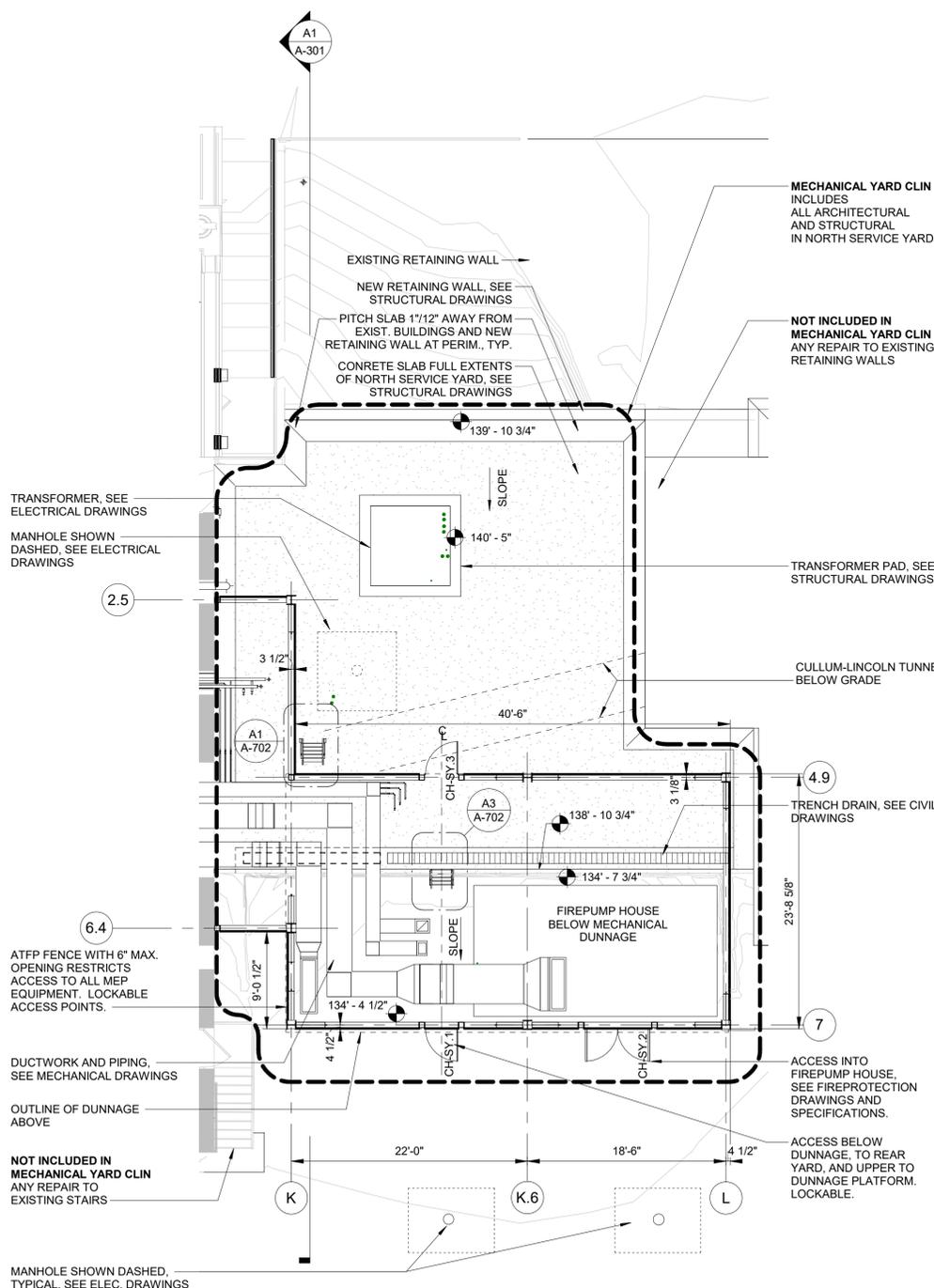
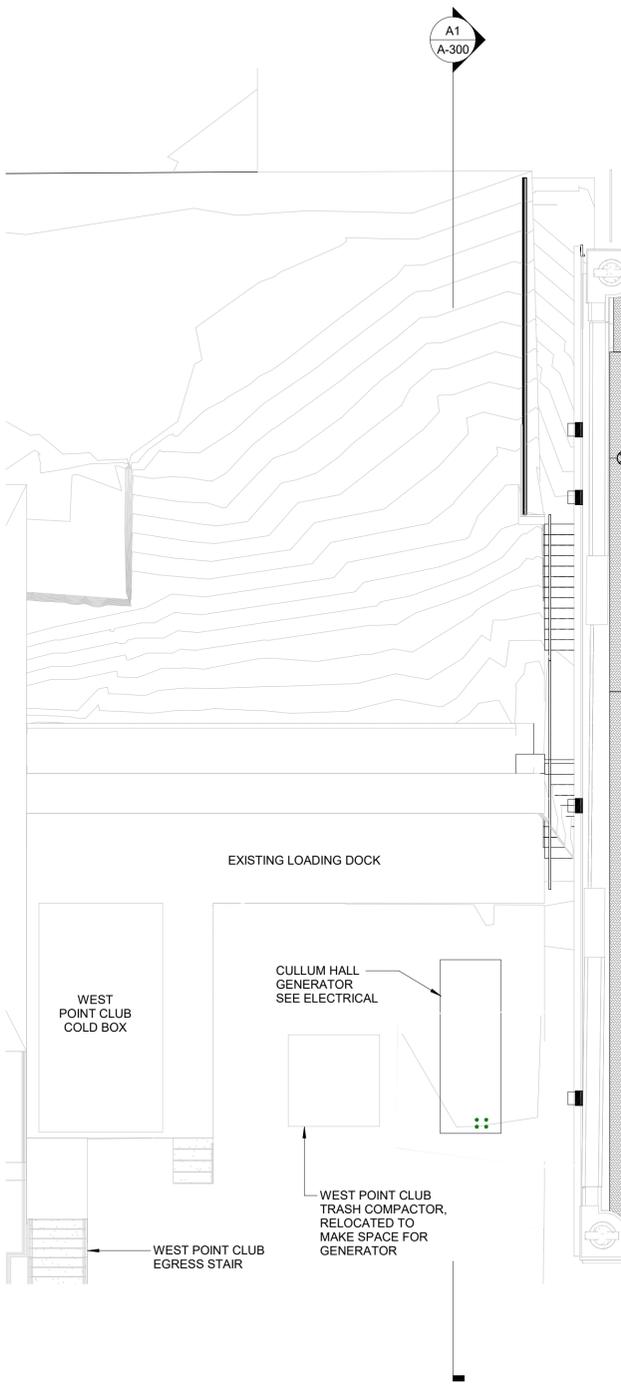
ISSUE DATE:	2/11/2021	DATE
DESIGNED BY:	LEB	MARK
DRAWN BY:	DRM	
CHECKED BY:	RW	
SUBMITTED BY:	BK	
SCALE:	AS SHOWN	
PROJECT NO.:	19-C0031	
CONTRACT NO.:	W912DS-19-C0031	
SOLUTION NO.:	19-0014	
AMENDMENT:	7	
RTA SUBMISSION:	0	
DESCRIPTION:		

US ARMY CORPS OF ENGINEERS
 WEST POINT, NY
 USMA BUILDING 605 CULLUM HALL RENOVATION
 MOUNTING HEIGHTS & CLEARANCES
 A Joint Venture
JACOBS / EWING COLE

WEST POINT, NY
 USMA BUILDING 605 CULLUM HALL RENOVATION
 MOUNTING HEIGHTS & CLEARANCES

SHEET ID
A-003

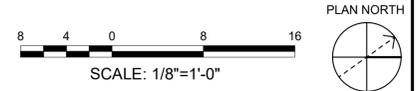
- GENERAL NOTES**
- SEE A-005 HISTORIC DIAGRAMS FOR NOTES ON THE DESIGN APPROACH FOR RENOVATION IN HISTORIC SPACES.
 - ELEVATIONS ARE FINISH FLOOR ELEVATIONS AND ARE SET TO MATCH EXISTING FINISH FLOOR ELEVATIONS.
 - VERIFY ALL EXISTING TO REMAIN FINISH FLOOR ELEVATIONS IN MULTIPLE LOCATIONS.
 - COORDINATE EXISTING TO REMAIN WORK WITH NEW WORK AT ALL LOCATIONS INCLUDING THRESHOLDS, SILLS, AND FLOOR TRANSITIONS. SEE EXTERIOR DOOR DETAILS AND INTERIOR THRESHOLD DETAILS.
 - SEE EXTERIOR ELEVATION SHEETS FOR EXTERIOR ELEVATION SCOPE.
 - SEE SHEET A-111 FOR TERRACE SCOPE.
 - SEE SHEET A-501 FOR EXISTING TO REMAIN HISTORIC STONE STAIRS.
 - SEE STRUCTURAL DRAWINGS NEW FOUNDATIONS, UNDERSLAB DRAINAGE, NEW CONCRETE SLABS, DUNNAGE, AND SITE WALL IN THE NORTH SERVICE YARD.
 - SEE CIVIL DRAWINGS FOR SITE UTILITIES.
 - SEE LANDSCAPE DRAWINGS FOR LANDSCAPING.



A1 A-109
 SOUTH SERVICE YARD EQUIPMENT PLAN
 SCALE: 1/8" = 1'-0"
 REF SHEET: A-108

A4 A-109
 NORTH SERVICE YARD EQUIPMENT PLAN - LOWER ELEVATION
 SCALE: 1/8" = 1'-0"
 REF SHEET: A-1B2

A8 A-109
 NORTH SERVICE YARD EQUIPMENT PLAN - UPPER ELEVATION
 SCALE: 1/8" = 1'-0"
 REF SHEET: A-1B1



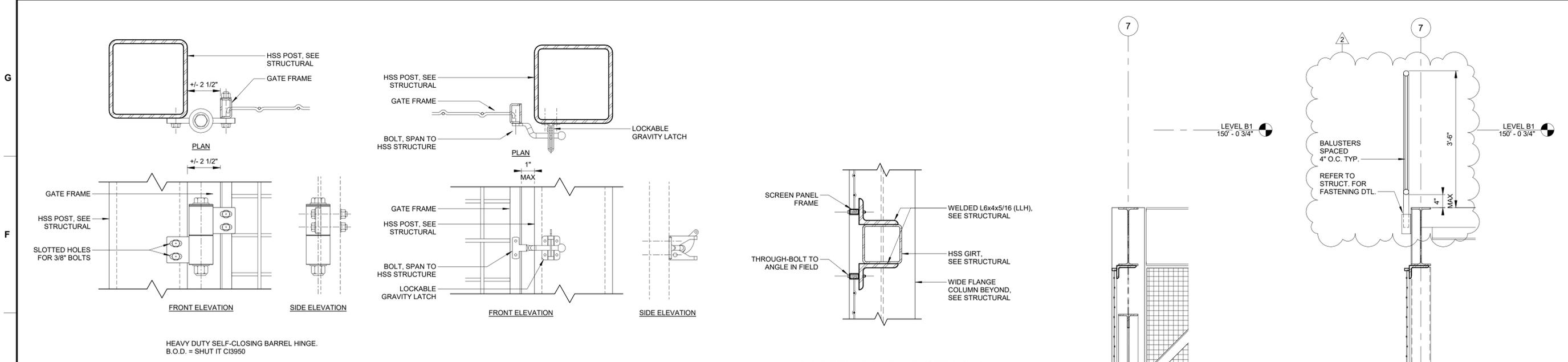
DATE	DESCRIPTION	MARK
5/21/2021	RTA SUBMISSION	0
2/11/2021	AMENDMENT 7	1

DESIGNED BY:	ISSUE DATE:
DRAWN BY:	2/11/2021
CHECKED BY:	SOLUTION NO.:
SUBMITTED BY:	W912DS-19-20031
ANS/D	PROJECT NO.:
	20190494

USMA BUILDING 605 CULLUM HALL RENOVATION
 ENLARGED SITE PLANS - SERVICE YARDS

SHEET ID
A-109

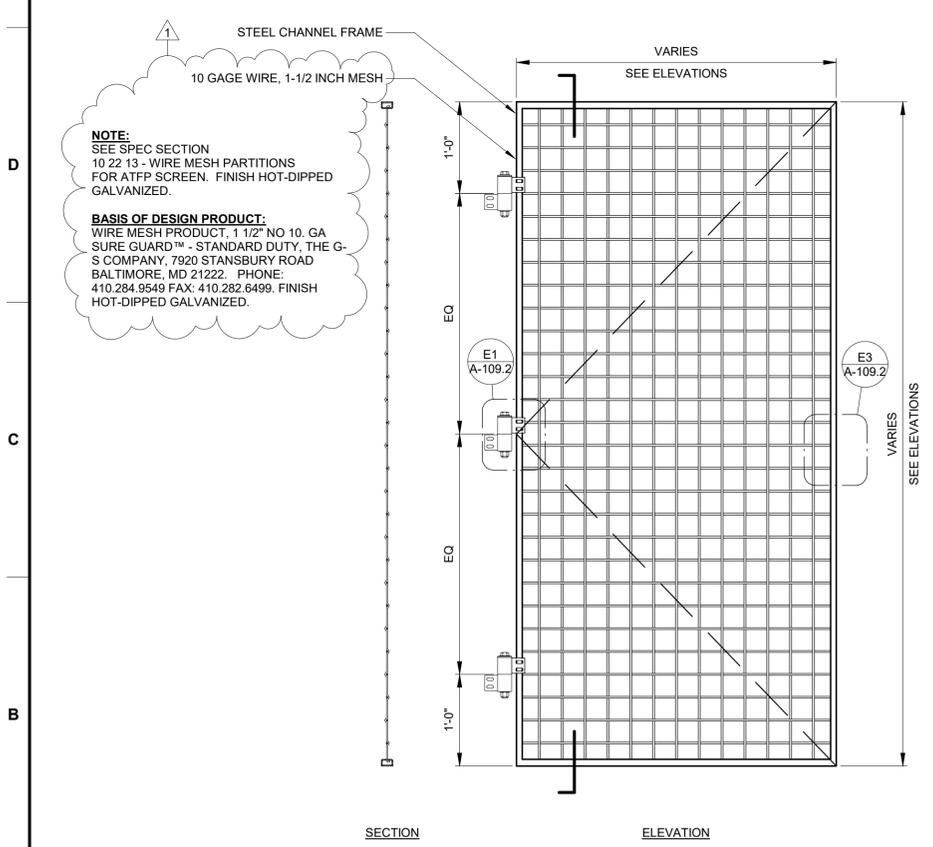
1 2 3 4 5 6 7 8 9 10



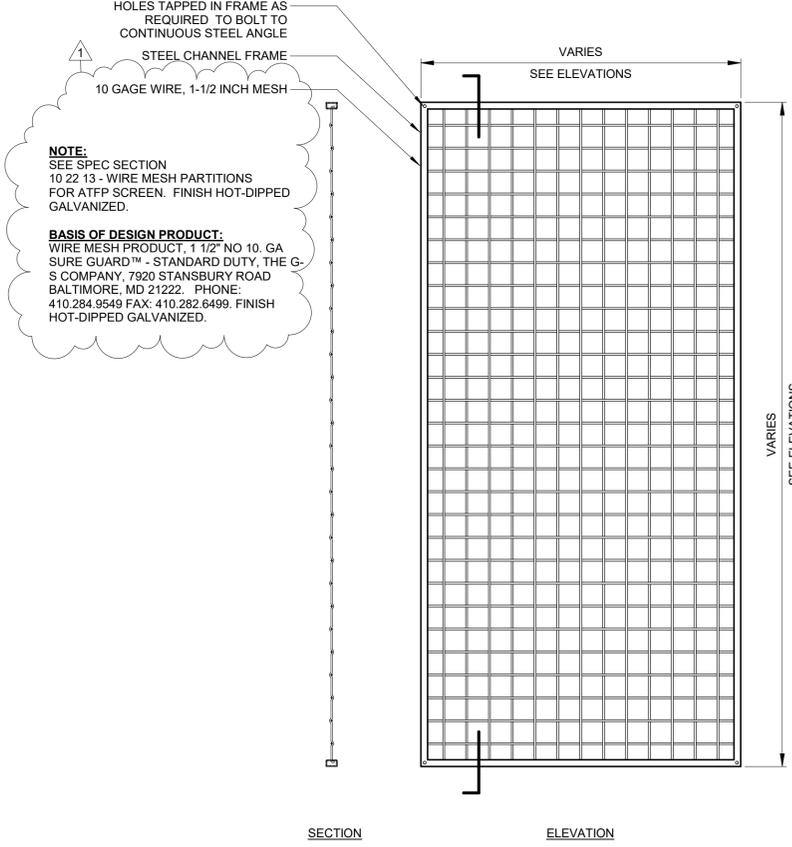
E1
A-109.2
GATE HINGE DETAILS
SCALE: 3" = 1'-0"
REF SHEET: A-109.2

E3
A-109.2
GATE LATCH DETAILS
SCALE: 3" = 1'-0"
REF SHEET: A-109.2

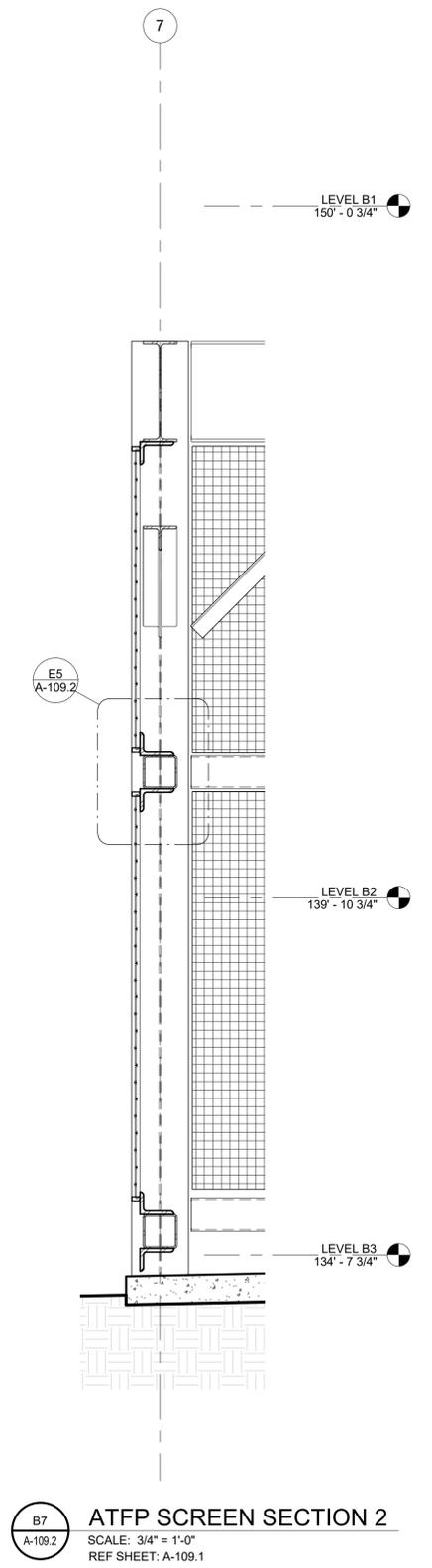
E5
A-109.2
SCREEN PANEL FASTENING CONNECTION
SCALE: 1 1/2" = 1'-0"
REF SHEET: A-109.2



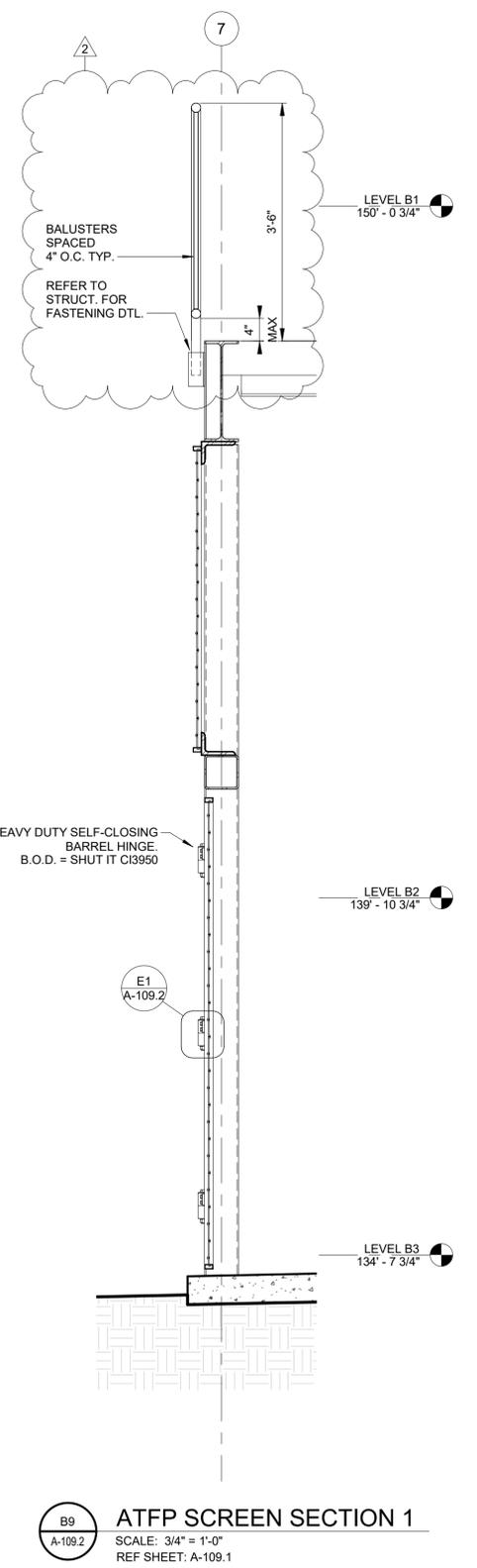
A2
A-109.2
ATFP SCREEN GATE PANEL
SCALE: 1" = 1'-0"
REF SHEET: A-109.1



A5
A-109.2
ATFP SCREEN STANDARD PANEL
SCALE: 1" = 1'-0"
REF SHEET: A-109.1

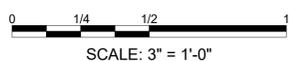


B7
A-109.2
ATFP SCREEN SECTION 2
SCALE: 3/4" = 1'-0"
REF SHEET: A-109.1



B9
A-109.2
ATFP SCREEN SECTION 1
SCALE: 3/4" = 1'-0"
REF SHEET: A-109.1

**MECHANICAL YARD CLIN
INCLUDES ALL
ARCHITECTURAL AND
STRUCTURAL IN
NORTH SERVICE YARD**

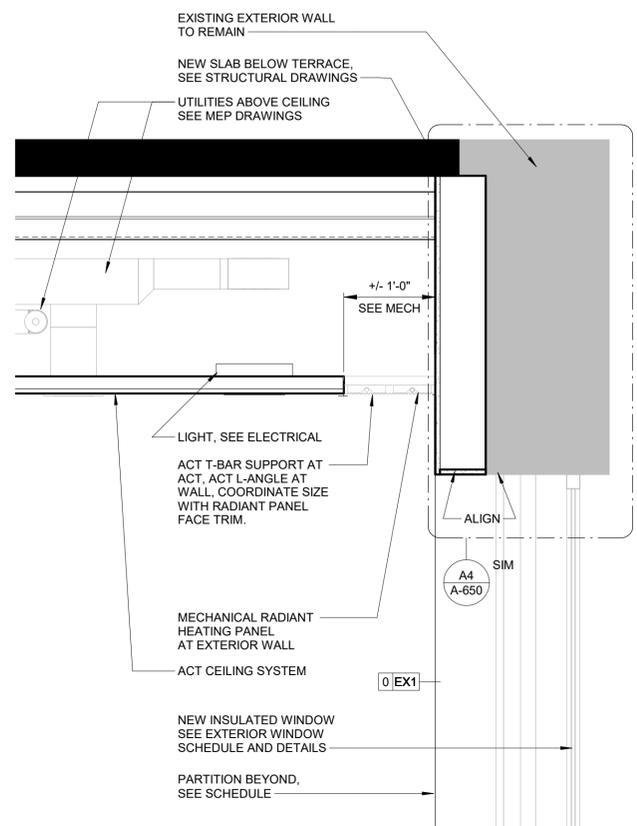


DATE	DESCRIPTION	MARK
5/21/2021	AMENDMENT 7	2
5/12/2021	AMENDMENT 4	1
2/11/2021	RTA SUBMISSION	0

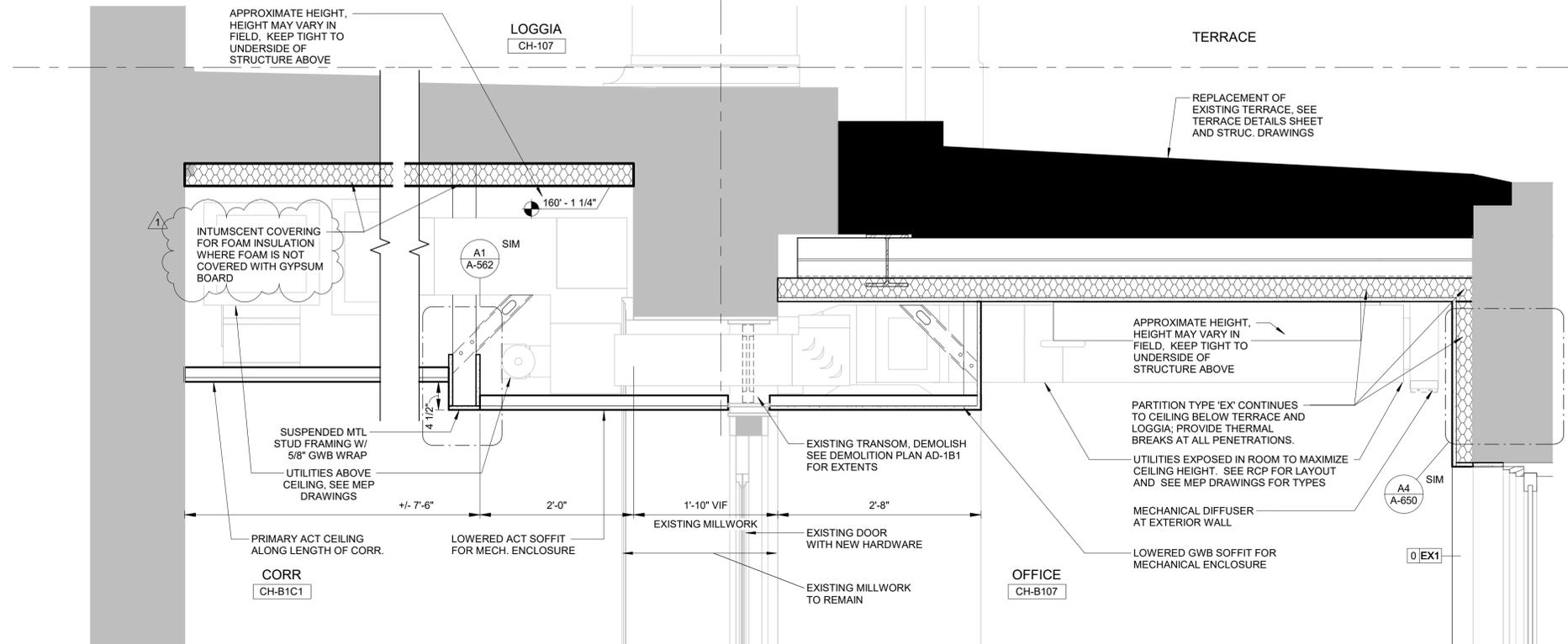
ISSUE DATE:	2/11/2021
DESIGNED BY:	LEB
DRAWN BY:	RM
CHECKED BY:	RM
SUBMITTED BY:	BK
SIZE:	A
ANSI:	1
PROJECT NO.:	20190494
CONTRACT NO.:	W912DS-19-C0031
SOLUTION NO.:	10/14
ISSUE NO.:	1

US ARMY CORPS OF ENGINEERS
WEST POINT, NY
USMA BUILDING 605 CULLUM HALL RENOVATION
ATFP SCREEN DETAILS

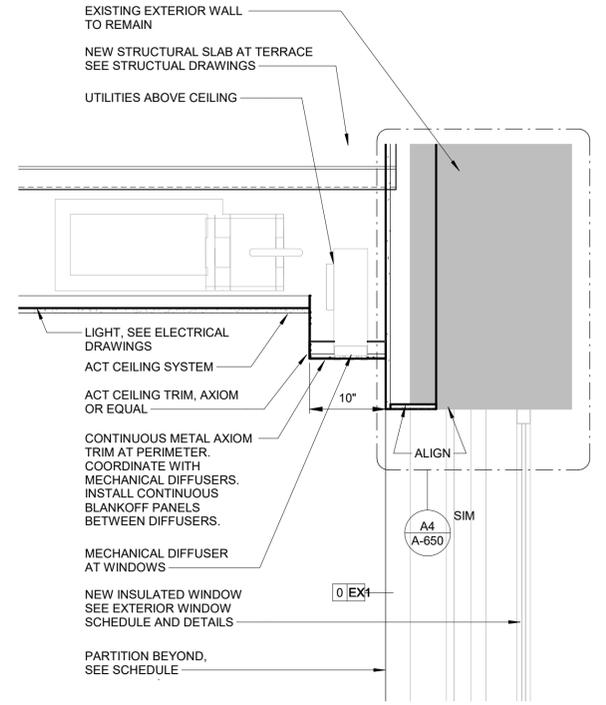
SHEET ID
A-109.2



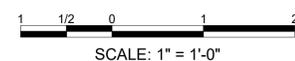
D1 RCP DETAIL @ B1 AND B2 BATHROOM
SCALE: 1" = 1'-0"



D4 RCP DETAIL @ B1 PERIMETER OFFICES
SCALE: 1" = 1'-0"



A1 RCP DETAIL @ B1 CORRIDOR
SCALE: 1" = 1'-0"



ISSUE DATE:	2/11/2021
DESIGNED BY:	LEB
DRAWN BY:	DB
CHECKED BY:	RW
SUBMITTED BY:	BK
PROJECT NO.:	20190494
CONTRACT NO.:	W91ZDS-19-C-0031
SOLUTION NO.:	10/14
AMENDMENT 7	0
RTA SUBMISSION	0
DATE	2/11/2021
MARK	DESCRIPTION

US ARMY CORPS OF ENGINEERS

WEST POINT, NY

USMA BUILDING 605 CULLUM HALL RENOVATION

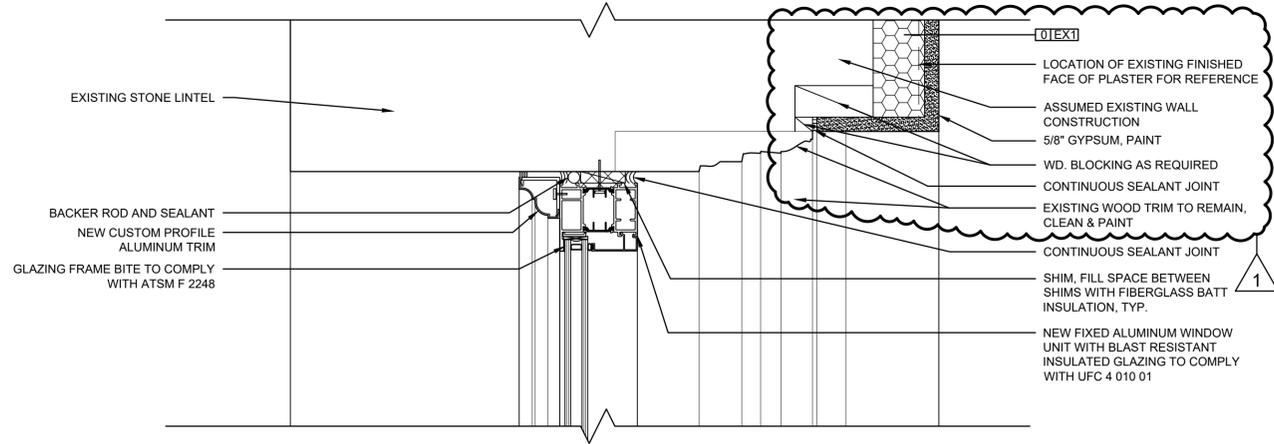
RCP DETAILS - BASEMENT FLOORS (PERIMETER)

JACOBS / EWING COLE A Joint Venture

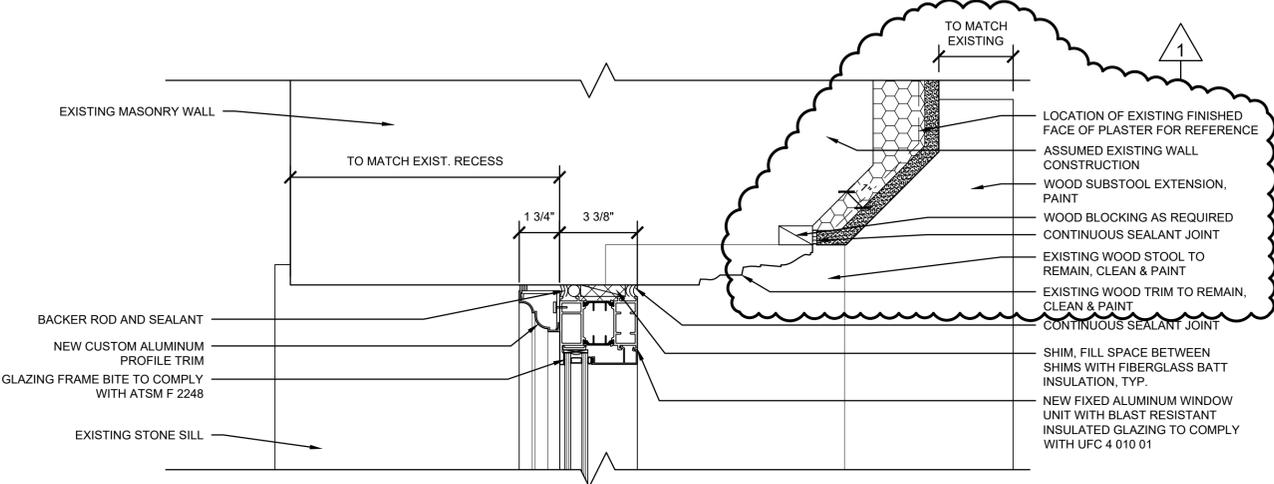
SHEET ID

A-560

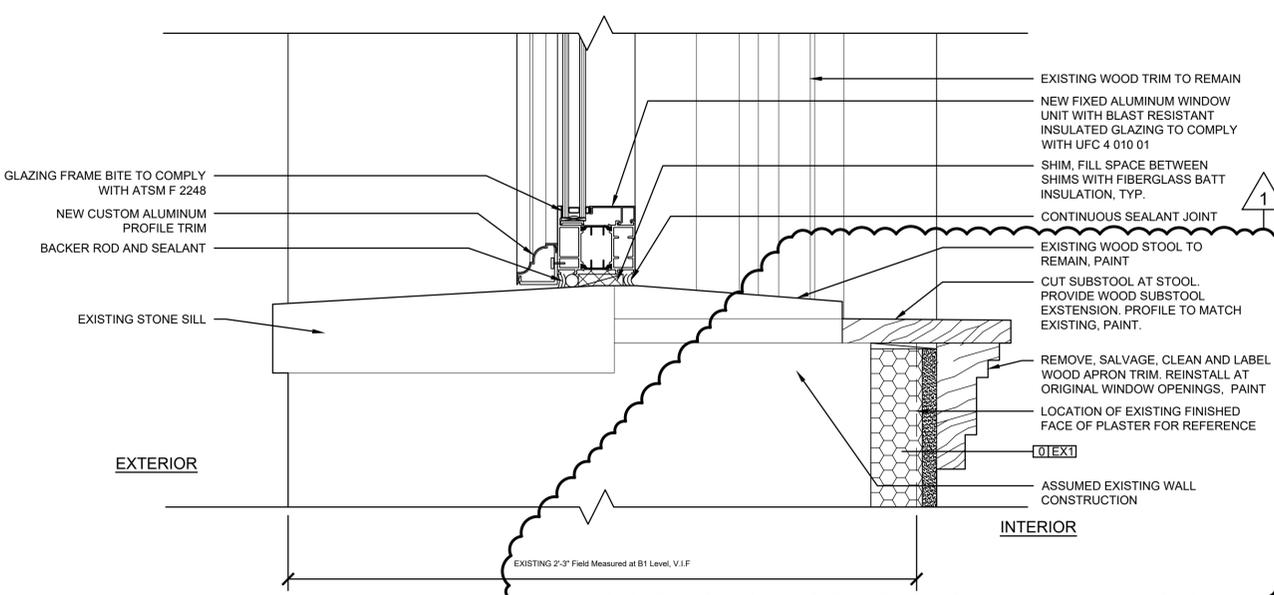
G
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3 WINDOW HEAD
3" = 1'-0"

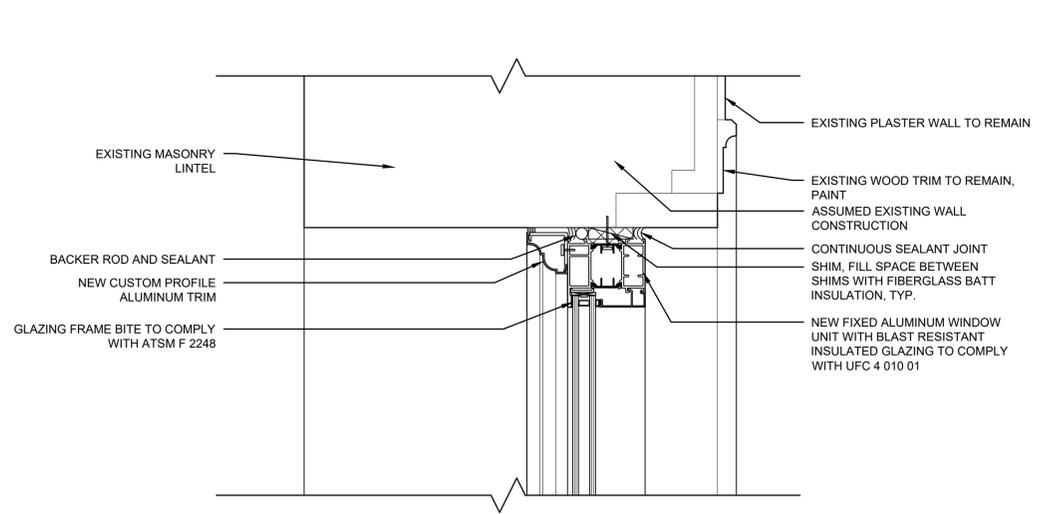


2 WINDOW JAMB
3" = 1'-0"

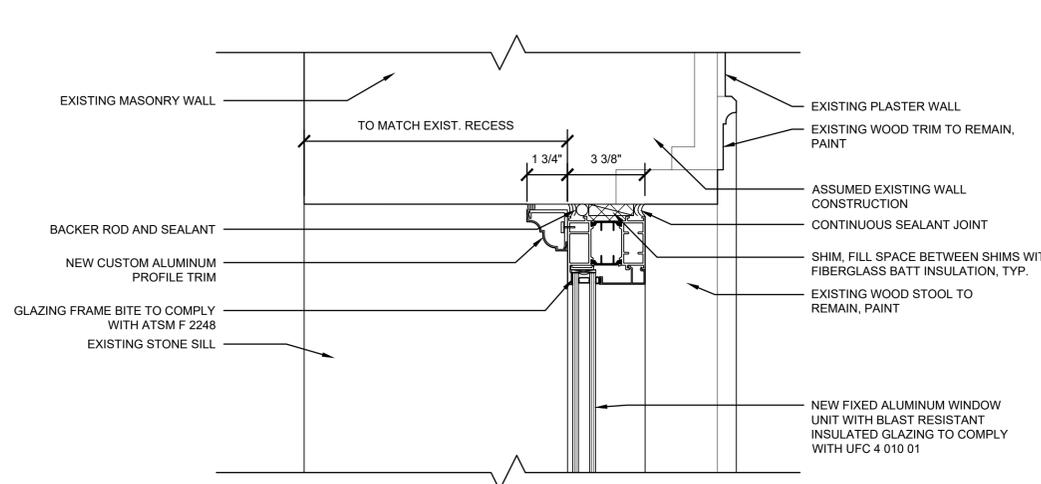


1 WINDOW SILL
3" = 1'-0"

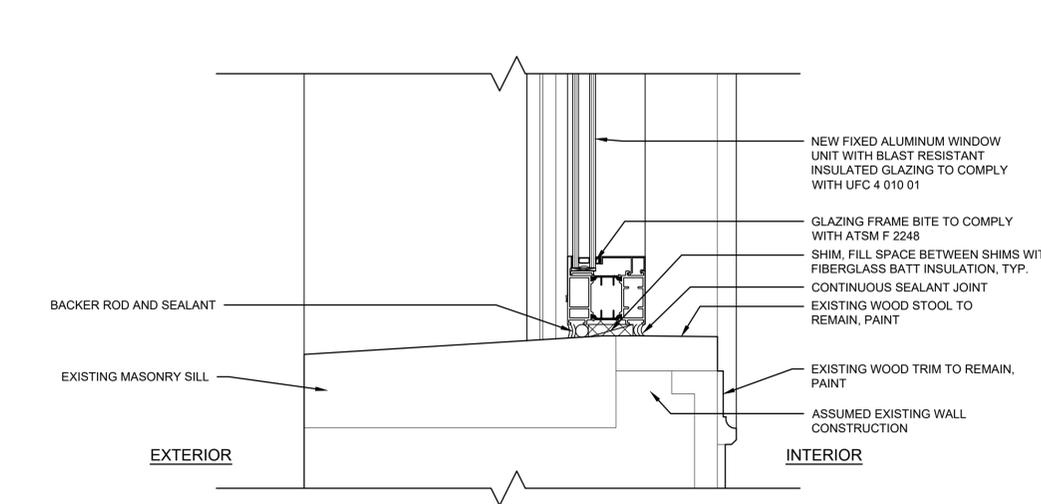
B1 & B2 LEVEL WINDOWS



6 WINDOW HEAD
3" = 1'-0"

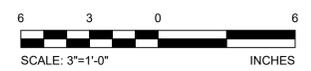


5 WINDOW JAMB
3" = 1'-0"



4 WINDOW SILL
3" = 1'-0"

NORTH AND SOUTH FIXED WINDOWS



US Army Corps of Engineers

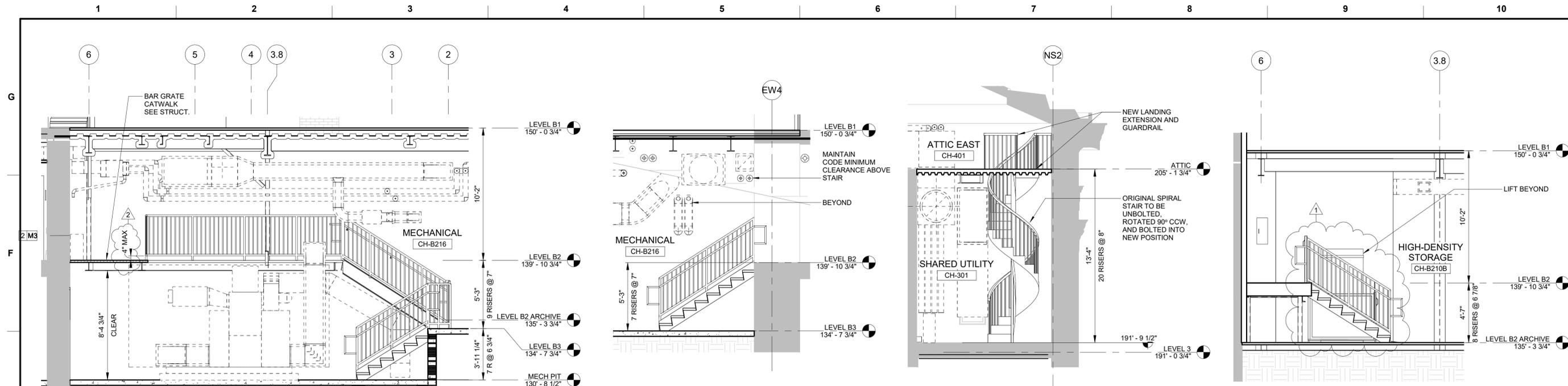
DESIGNED BY: JIN DRAWN BY: JIN CHECKED BY: JIN SUBMITTED BY: JIN	ISSUE DATE: 2/11/2021 SOLICITATION NO.: W912DS-18-R-0014 CONTRACT NO.: W912DS-18-R-0014 PROJECT NO.: 20190494
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JACOBS / EWING COLE A Joint Venture

WEST POINT, NY
USMA BUILDING 605 CULLUM HALL RENOVATION

EXTERIOR WINDOW DETAILS

SHEET ID
A-611

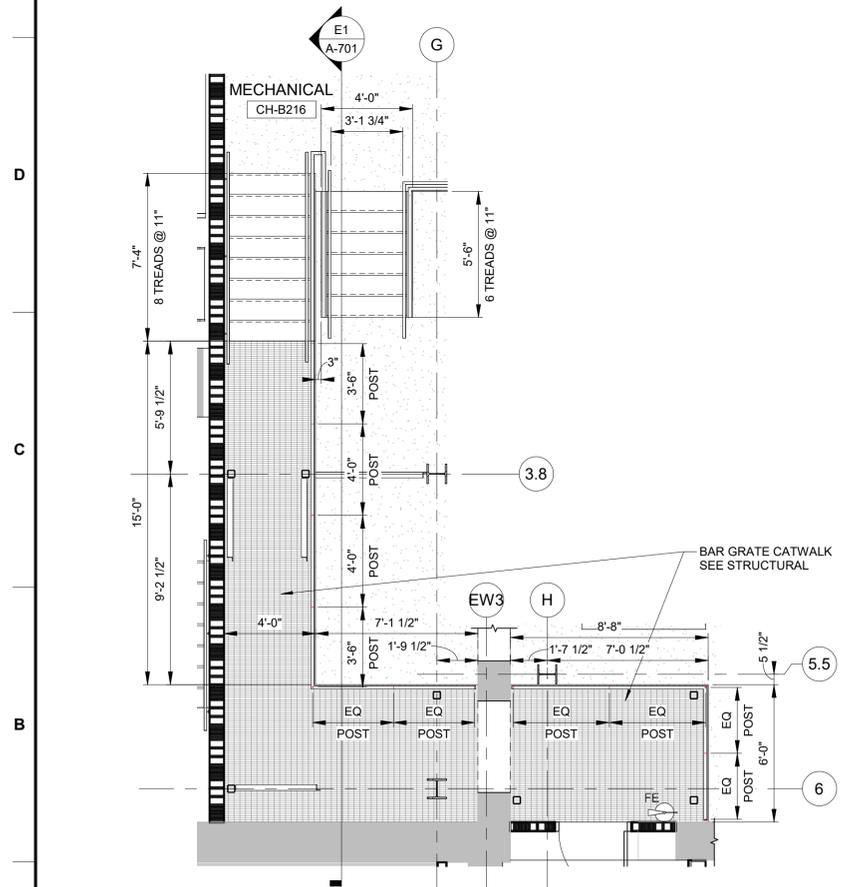


E1 MECH ROOM SOUTH STAIR SECTION
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-701

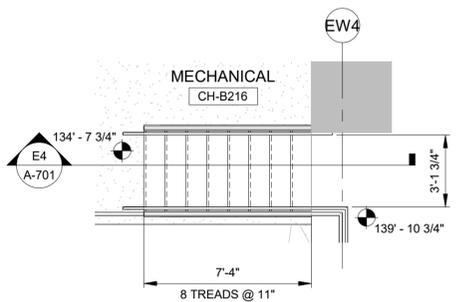
E4 MECH ROOM NORTH STAIR SECTION
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-701

E6 SPIRAL STAIR SECTION
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-701

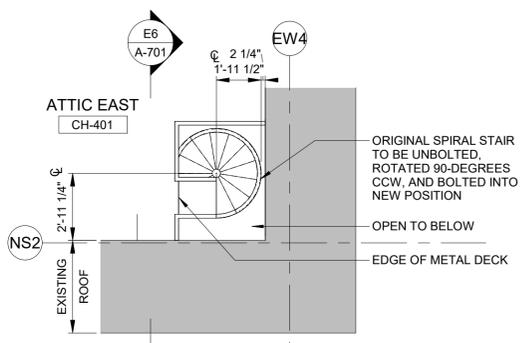
E8 STAIR & LIFT SECTION - ARCHIVE
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-701



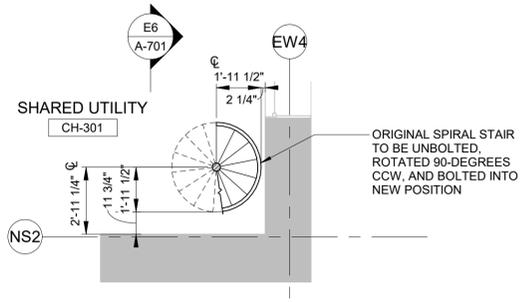
A1 MECH ROOM SOUTH STAIR PLAN
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-1B2



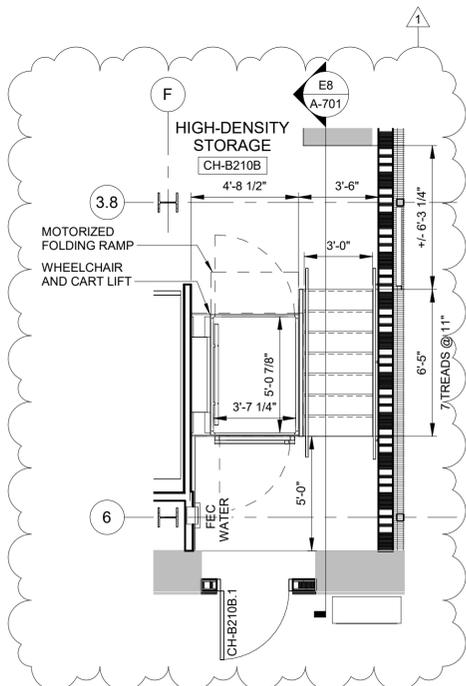
A4 MECH ROOM NORTH STAIR PLAN
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-1B2



C6 SPIRAL STAIR PLAN - ATTIC
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-140



A6 SPIRAL STAIR PLAN - THIRD FLOOR
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-130



A8 STAIR & LIFT PLAN - ARCHIVE
 SCALE: 1/4" = 1'-0"
 REF SHEET: A-1B2



ISSUE DATE:	2/11/2021
DESIGNED BY:	LEB
DRAWN BY:	DR
CHECKED BY:	RM
SUBMITTED BY:	BK
SCALE:	AS SHOWN
MARK:	0
AMENDMENT:	7
RTA SUBMISSION:	0
DATE:	5/21/2021
DESCRIPTION:	

US ARMY CORPS OF ENGINEERS	JACOBS / EWING COLE
WEST POINT, NY	A Joint Venture
USMA BUILDING 605 CULLUM HALL RENOVATION	
VERTICAL CIRCULATION - STAIRS	

SHEET ID	A-701
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MECHANICAL / PLUMBING EQUIPMENT COORDINATION SCHEDULE																											
EQUIPMENT IDENTIFICATION				ELECTRICAL				LOCAL DISCONNECT DEVICE				STARTER								REMARKS							
EQUIPMENT TAG	DESCRIPTION	PHYSICAL LOCATION	AREA / SPACE SERVED	ELECTRICAL PANEL/SOURCE	HP	FLA	KW	VOLTS-Ø	UNFUSED SWITCH	FUSED SWITCH	FHP MAN. MOTOR SWITCH	PROVIDED BY	MAN.	MAG.	VFD	MCP	SW UNF	SW FU	ON/OFF SW	PB	HOA SW	PILOT	PROVIDED BY	(E.G. SKID MOUNTED, PACKAGED, ETC.)			
AHU-1	SUPPLY FANS	BASEMENT MER	LEVELS B1 & B2 - ARCHIVES	DP-OS	(4) 5	30		460/3							X								DIV 23	EMERGENCY POWER			
AHU-2	SUPPLY FANS	NORTH SERVICE YARD	LEVELS B1 & B2 - BUFFER ZONES	DP-M-1	(4) 5	30		460/3							X								DIV 23				
AHU-3	RETURN FANS	NORTH SERVICE YARD	LEVELS B1 & B2 - BUFFER ZONES	DP-M-1	(4) 3	19		460/3							X								DIV 23				
AHU-3	SUPPLY FANS	ABOVE STAGE	LEVELS 1 & 2 - BALL ROOM & MEMORIAL ROOM	DP-M-2	(4) 7.5	44		460/3							X								DIV 23				
B-1	BOILER	BASEMENT MER	EMERGENCY HEATING	AP-OS-B1			1.7	120/1																EMERGENCY POWER / CP BY DIV 23			
CH-1	AIR-COOLED CHILLER	NORTH SERVICE YARD	EMERGENCY COOLING	DP-OS			31.86	460/3							X								DIV 23	EMERGENCY POWER			
CP-1	CONDENSATE PUMP	SEE DRAWINGS	FCU 2M-1 & FCU B3-1 & FCU B3-2				1/5	0.6	120/1																		
CUH-1-1	CABINET UNIT HEATER	CH-103A	CH-103A	AP-M-B2	0.25		0.48	120/1	X			DIV 23															
CUH-1-2	CABINET UNIT HEATER	CH-105	CH-105	AP-M-B2	0.25		0.48	120/1	X			DIV 23															
CUH-B2-1	CABINET UNIT HEATER	B205	B205	AP-M-B2	0.13		0.3	120/1	X			DIV 23															
CUH-B2-2	CABINET UNIT HEATER	B217	B217	AP-M-B2	0.13		0.3	120/1	X			DIV 23															
CUH-B1-1	CABINET UNIT HEATER	B100	B100	AP-M-B2	0.13		0.3	120/1	X			DIV 23															
CUH-B1-2	CABINET UNIT HEATER	B122	B122	AP-M-B2	0.13		0.3	120/1	X			DIV 23															
CUH-B1-3	CABINET UNIT HEATER	NW STAIR	NW STAIR	AP-M-B2	0.13		0.3	120/1	X			DIV 23															
CR-1	CONDENSATE RECEIVER	BASEMENT MER	CULLUM CONDENSATE RETURN	DP-M-1	(2) 0.5	2		460/3	X			DIV 23	X								X		DIV 23	CP BY DIV 23			
CR-2	CONDENSATE RECEIVER	TUNNEL	CULLUM/LINCOLN CONDENSATE RETURN	DP-M-1	(2) 0.5	2		460/3	X			DIV 23	X								X		DIV 23	CP BY DIV 23			
CRU-B1-1	COMPUTER ROOM UNIT	MAIN TELECOM	MAIN TELECOM	AP-OS-B1			30	208/1	X			DIV 26													EMERGENCY POWER		
CRU-B1-2	COMPUTER ROOM UNIT	MAIN TELECOM	MAIN TELECOM	AP-OS-B1			30	208/1	X			DIV 26														EMERGENCY POWER	
DHU-1	DEHUMIDIFIER	BASEMENT MER	ARCHIVES	DP-OS		5		460/3	X			DIV 26														EMERGENCY POWER	
DHU-2	DEHUMIDIFIER	BASEMENT MER	COLD STORAGE	AP-OS-B1		2.35		208/1	X			DIV 26														EMERGENCY POWER	
EF-1	EXHAUST FAN	TUNNEL (EAST)	GENERAL EXHAUST	DP-M-1	1.5	3		460/3	X			DIV 23															
EWH-1	ELECTRIC WATER HEATER	SEE DRAWINGS	RESTROOM SINKS	AP-M-B2			3.5	120/1				DIV 26															
EWH-2	ELECTRIC WATER HEATER	SEE DRAWINGS	GENERAL HOT WATER	AP-M-B2			1.5	120/1			X	DIV 26															
FCU-B3-1	FAN COIL UNIT	TUNNEL NE	TUNNEL NE	AP-M-B2	0.03		0.5	208/1	X			DIV 23															
FCU-B3-2	FAN COIL UNIT	TUNNEL SE	TUNNEL SE	AP-M-B2	0.03		0.5	208/1	X			DIV 23															
FCU-B2-1	FAN COIL UNIT	B219	B219	AP-M-B2	0.23		0.6	208/1	X			DIV 23															
FCU-B1-1	FAN COIL UNIT	B120	B120	AP-M-B2	0.16		0.6	208/1	X			DIV 23															
FCU-B1-2	FAN COIL UNIT	B118	B118	AP-M-B2	0.23		0.6	208/1	X			DIV 23															
FCU-B1-3	FAN COIL UNIT	B118	B118	AP-M-B2	0.23		0.6	208/1	X			DIV 23															
FCU-1-1	FAN COIL UNIT	CH-100	CH-100	AP-M-B2	0.16		0.6	208/1	X			DIV 23															
FCU-1-2	FAN COIL UNIT	CH-1S1	CH-1S1	AP-M-B2	0.04		0.3	208/1	X			DIV 23															
FCU-1-3	FAN COIL UNIT	CH-1S1	CH-1S1	AP-M-B2	0.04		0.3	208/1	X			DIV 23															
FCU-1-4	FAN COIL UNIT	CH-102A	CH-102A	AP-M-B2	0.22		0.6	208/1	X			DIV 23															
FCU-1-5	FAN COIL UNIT	CH-102B	CH-102B	AP-M-B2	0.22		0.6	208/1	X			DIV 23															
FCU-1-6	FAN COIL UNIT	CH-104B	CH-104B, CH-106B	AP-M-B2	0.24		0.6	208/1	X			DIV 23															
FCU-1-7	FAN COIL UNIT	CH-103A	CH-101	AP-M-B2	0.09		0.6	208/1	X			DIV 23															
FCU-2-1	FAN COIL UNIT	ATTIC SOUTH	CH-2S1, CH-3S1	AP-M-B2	0.32		0.6	208/1	X			DIV 23															
FCU-2M-1	FAN COIL UNIT	ATTIC SOUTH	CH-300	AP-M-B2	0.24		0.6	208/1	X			DIV 23															
FCU-3-1	FAN COIL UNIT	CH-301	CH-301	AP-M-B2	0.08		0.6	208/1	X			DIV 23															
FCU-3-2	FAN COIL UNIT	CH-302	CH-302	AP-M-B2	0.16		0.6	208/1	X			DIV 23															
FZP-2A	CHW FREEZE PROTECTION PUMP	AHU-2 SERVICE VESTIBULE	AHU-2 SYSTEM	DP-M-1	1.5	3		460/3																			
FZP-2B	HW FREEZE PROTECTION PUMP	AHU-2 SERVICE VESTIBULE	AHU-2 SYSTEM	AP-M-B2	0.5	4		120/1																			
FZP-3	HW FREEZE PROTECTION PUMP	ATTIC NORTH	AHU-3 SYSTEM	AP-M-B2	0.5	4		120/1																			
GFT-1	GLYCOL FILL STATION	BASEMENT MER	EMERGENCY CHILLED WATER SYSTEM	DP-OS	3/4	2		460/3	X																		EMERGENCY POWER
HUM-1-1	HUMIDIFIER	BASEMENT MER	AHU-1 SYSTEM	DP-OS			56.1	460/3		X		DIV 23															EMERGENCY POWER
HUM-2-1	HUMIDIFIER	BASEMENT MER	VAV 2-2	DP-M-1			3.7	460/1		X		DIV 23															
HUM-2-2	HUMIDIFIER	TUNNEL	VAV 2-5	DP-M-1			7.5	460/3		X		DIV 23															
HUM-2-3	HUMIDIFIER	TUNNEL	VAV 2-17	DP-M-1			7.5	460/3		X		DIV 23															
OAU-1	OUTSIDE AIR UNIT	NORTH SERVICE YARD	AHU-1 SYSTEM	DP-OS		9.5		460/3	X			DIV 23															EMERGENCY POWER
P-1	CHILLED WATER PUMP	BASEMENT MER	CHILLED WATER SYSTEM	DP-OS	7.5	11		460/3						X									DIV 23	EMERGENCY POWER			
P-2	CHILLED WATER PUMP	BASEMENT MER	CHILLED WATER SYSTEM	DP-OS	7.5	11		460/3						X									DIV 23	EMERGENCY POWER			
P-3	HOT WATER PUMP	BASEMENT MER	HOT WATER SYSTEM	DP-OS	5	8		460/3						X									DIV 23	EMERGENCY POWER			
P-4	HOT WATER PUMP	BASEMENT MER	HOT WATER SYSTEM	DP-OS	5	8		460/3						X									DIV 23	EMERGENCY POWER			
SP-1	SUMP PUMP	ELEVATOR PIT	ELEVATOR	AP-OS-B1	3/10	1.2		120/1																			EMERGENCY POWER
SP-2	DUPLEX SUMP PUMP	MECH SERVICE																									
RF-1	RETURN FAN (AHU-1)	BASEMENT MER	AHU-1 SYSTEM	DP-OS	7.5	11		460/3						X									DIV 23	EMERGENCY POWER			
RF-3A	RETURN FAN (AHU-3)	CH-302	AHU-3 SYSTEM	DP-M-2	7.5	11		460/3						X									DIV 23				
RF-3B	RETURN FAN (AHU-3)	CH-301	AHU-3 SYSTEM	DP-M-2	7.5	11		460/3						X									DIV 23				
UH-B2-1	UNIT HEATER	BASEMENT MER	BASEMENT MER	AP-M-B2			16W	120/1	X			DIV 23															
UH-B1-1	UNIT HEATER	AHU-2 SERVICE VESTIBULE	AHU-2 SERVICE VESTIBULE	AP-M-B2			16W	120/1	X			DIV 23															
VAV-X-X	VARIABLE AIR VOLUME CONTROL BOX	REFER TO DRAWINGS	REFER TO DRAWINGS				0.1	120/1																			
VF-B3-1	VENTILATION FAN	TUNNEL (NORTH)	TUNNEL (NORTH)	AP-M-B2	0.5	4		120/1	X			DIV 23															
VF-B3-2	VENTILATION FAN	TUNNEL (SOUTH)	TUNNEL (SOUTH)	AP-M-B2	0.5	4		120/1	X			DIV 23															