



WEST POINT, NY



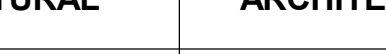




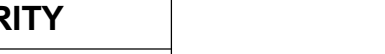

USMA BUILDING 607 LINCOLN HALL RENOVATION

D3296400



SOLICITATION NUMBER : W912DS-19-R-0014
CONTRACT NUMBER : W912DS-19-C-0031-L
ISSUE DATE: 01 MARCH 2023
VOLUME ONE



HAZMAT	CIVIL	LANDSCAPE	STRUCTURAL	ARCHITECTURE	INTERIORS	FIRE PROTECTION LIFE SAFETY	PLUMBING MECHANICAL	ELECTRICAL	TELECOM SECURITY
NO SEAL SHEETS ARE FOR BIDDING AND INFORMATION ONLY	 03/01/2023								

REVISED RTA SUBMISSION
03/01/2023



**US Army Corps
of Engineers ®**

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JACOBS / EWING		COLE		<i>A Joint Venture</i>	
US ARMY CORPS OF ENGINEERS		DESIGNED BY:		ISSUE DATE:	
LINCOLN HALL		DRAWN BY:		REVISED:	
WEST POINT, NEW YORK		A. FLORA		PROJECT NO. 23	
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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

COVER SHEET - VOLUME ONE

SHEET ID

G-011

D	NUMBER		DRAWING NAME	
	GENERAL			
	G-011	COVER SHEET - VOLUME ONE		
	G-012	INDEX OF DRAWINGS - VOLUME ONE AND TWO		
	G-013	INDEX OF DRAWINGS - VOLUME THREE AND FOUR		
	NUMBER		DRAWING NAME	
	LIFE SAFETY			
	LS001	LIFE SAFETY CODE SUMMARY		
	LS101	LEVEL B3 FLOOR PLAN - LIFE SAFETY		
LS102	LEVEL B2 FLOOR PLAN - LIFE SAFETY			
LS103	LEVEL B1 FLOOR PLAN - LIFE SAFETY			
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LS106	LEVEL 3 FLOOR PLAN - LIFE SAFETY			
LS107	LEVEL 4 FLOOR PLAN - LIFE SAFETY			
HAZARDOUS				
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H-102	LEVEL B2 HAZMAT PLAN			
H-103	LEVEL B1 HAZMAT PLAN			
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CIVIL				
C-001	GENERAL NOTES			
C-002	GENERAL NOTES, LEGEND, AND ABBREVIATIONS			
BB501	SOIL BORING LOG			
C-101	EXISTING CONDITIONS PLAN			
CD101	DEMOLITION PLAN			
CS101	SITE PLAN			
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CS103	CONSTRUCTION LOGISTICS PLAN			
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CU101	UTILITY PLAN			
C-201	DRAINAGE PROFILE			
C-501	CONSTRUCTION DETAILS			
C-502	CONSTRUCTION DETAILS			
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C-504	CONSTRUCTION DETAILS			
C-505	CONSTRUCTION DETAILS			
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LANDSCAPE				
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SD401	LARGE SCALE VIEWS			
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S-101	LEVEL B3 FLOOR PLAN			
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S-501	TYPICAL DETAILS - FOUNDATIONS, WALLS, SLABS-ON-GRADE, SLABS			
S-502	TYPICAL DETAILS - DEVELOPMENT LENGTHS, POST-INSTALLED ANCHORS, STEEL BEAMS			
S-503	TYPICAL DETAILS - STEEL BEAMS AND LINTELS			
S-504	TYPICAL DETAILS - STEEL BEAMS AND LINTELS			
S-505	TYPICAL DETAILS - STEEL DETAILS			

D

C	NUMBER		DRAWING NAME	
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	G-021	COVER SHEET - VOLUME TWO		
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AD104	LEVEL 1 DEMOLITION PLAN			
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AD107	LEVEL 4 DEMOLITION PLAN			
AD108	ROOF DEMOLITION PLAN			
A-101	LEVEL B3 FLOOR PLAN			
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A-111	LEVEL B3 REFLECTED CEILING PLAN			
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C

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	A-513	EXTERIOR DETAILS		
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	A-522	WINDOW DETAILS		
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A-532	ROOF DETAILS			
A-533	STAIR TOWER ATTIC ACCESS DETAILS			
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A-551	CEILING DETAILS			
A-552	TV STUDIO CEILING AND PARTITION DETAILS			
A-553	TV STUDIO CEILING DETAILS			
A-554	TV STUDIO CEILING DETAILS			
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A-564	MILLWORK DETAILS - TYPICAL			
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A-605	DOOR SCHEDULE AND DETAILS			
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A-607	DOOR DETAILS			
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A-609	EXTERIOR DOOR DETAILS			
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A-615	WINDOW TYPES AND SCHEDULE			
A-620	INTERIOR ALUMINUM FRAME SYSTEM			
A-621	INTERIOR ALUMINUM FRAME SYSTEM			
A-901	EXTERIOR RESTORATION ELEVATIONS			
A-902	EXTERIOR RESTORATION ELEVATIONS			
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A-905	EXTERIOR RESTORATION ELEVATIONS			
A-906	EXTERIOR RESTORATION ELEVATIONS			
A-907	EXTERIOR RESTORATION ELEVATIONS			
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AG102	LEVEL B2 FLOOR PLAN - SIGNAGE			
AG103	LEVEL B1 FLOOR PLAN - SIGNAGE			
AG104	LEVEL 1 FLOOR PLAN - SIGNAGE			
AG105	LEVEL 2 FLOOR PLAN - SIGNAGE			
AG106	LEVEL 3 FLOOR PLAN - SIGNAGE			
AG107	LEVEL 4 FLOOR PLAN - SIGNAGE			
AG201	SIGNAGE - EXTERIOR SIGN ELEVATIONS			
AG202	SIGNAGE - INTERIOR SIGN ELEVATIONS			
AG203	SIGNAGE - INTERIOR SIGN ELEVATIONS			
AG501	SIGNAGE LAYOUTS			
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INTERIOR				
I-101	LEVEL B3 FLOOR PLAN - FINISH			
I-102	LEVEL B2 FLOOR PLAN - FINISH			
I-103	LEVEL B1 FLOOR PLAN - FINISH			
I-104	LEVEL 1 FLOOR PLAN - FINISH			
I-105	LEVEL 2 FLOOR PLAN - FINISH			
I-106	LEVEL 3 FLOOR PLAN - FINISH			
I-107	LEVEL 4 FLOOR PLAN - FINISH			
I-111	LEVEL B3 FLOOR PLAN - FURNITURE			
I-112	LEVEL B2 FLOOR PLAN - FURNITURE			
I-113	LEVEL B1 FLOOR PLAN - FURNITURE			
I-114	LEVEL 1 FLOOR PLAN - FURNITURE			
I-115	LEVEL 2 FLOOR PLAN - FURNITURE			
I-116	LEVEL 3 FLOOR PLAN - FURNITURE			
I-117	LEVEL 4 FLOOR PLAN - FURNITURE			
I-400	ENLARGED FINISH FLOOR PLANS - CORRIDORS			
I-401	ENLARGED FINISH FLOOR PLANS - CORRIDORS, CAFE, RESTROOMS			
I-402	ENLARGED FINISH FLOOR PLANS - RETAIL STORE, CORRIDOR			
I-403	ENLARGED FINISH FLOOR PLANS - CORRIDORS			
I-404	ENLARGED FINISH FLOOR PLANS - CENTRAL STAIR			
I-405	ENLARGED FINISH FLOOR PLANS - CENTRAL STAIR, BREAK ROOMS			
I-406	ENLARGED FINISH FLOOR PLANS - PHOTO STUDIO			
I-500	INTERIOR DETAILS			
I-501	INTERIOR DETAILS			
I-600	COLOR MATERIAL LEGEND			
I-601	COLOR MATERIAL LEGEND			
I-602	FINISH MATERIAL SCHEDULE			
I-603	FINISH MATERIAL SCHEDULE			
I-604	FINISH MATERIAL SCHEDULE			

B

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S-505	TYPICAL DETAILS - STEEL DETAILS			

A

US ARMY CORPS OF ENGINEERS		DESIGNED BY: A. FLORA	ISSUE DATE: 01 MARCH 2023	FILE NAME: ANSI.D	MARK	DESCRIPTION	DATE
LINCOLN HALL WEST POINT, NEW YORK		DRAWN BY: J. L. COLE	SOLICITATION NO.: W912DS-19-R-0014				
		CHECKED BY: D. MANTY	PROJECT NO.: W912DS-19-R-0031-L				
		SUBMITTED BY:	FILE NUMBER:				
BUILDINGS 605/607 RENOVATION - LINCOLN HALL		JACOBS / EWING COLE A Joint Venture		INDEX OF DRAWINGS - VOLUME ONE AND TWO			
				SHEET ID			
				G-012			

D

CBA

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E-70
E-70

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G-013

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DESIGNED BY: J. MCLAUGHLIN	ISSUE DATE: 01 MARCH 2023
DRAWN BY: H. WANG	SOLICITATION NO.: W912DS-19-R-0014
CHECKED BY: J. BEALS	CONTRACT NO.: W912DS-19-C-0031-L
SUBMITTED BY:	FILE NUMBER:
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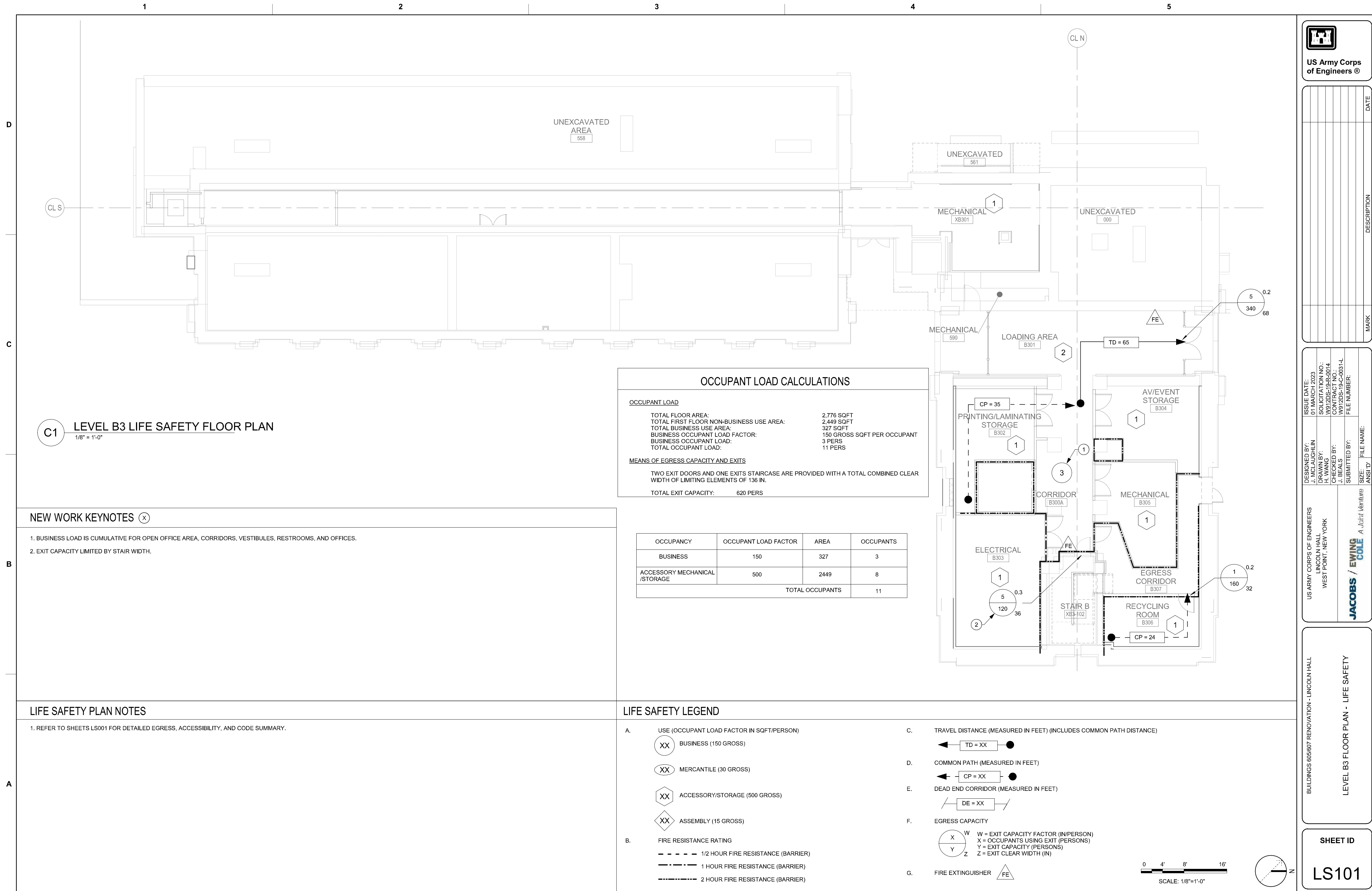
JACOBS / **EWING
COLE** *A Joint Venture*

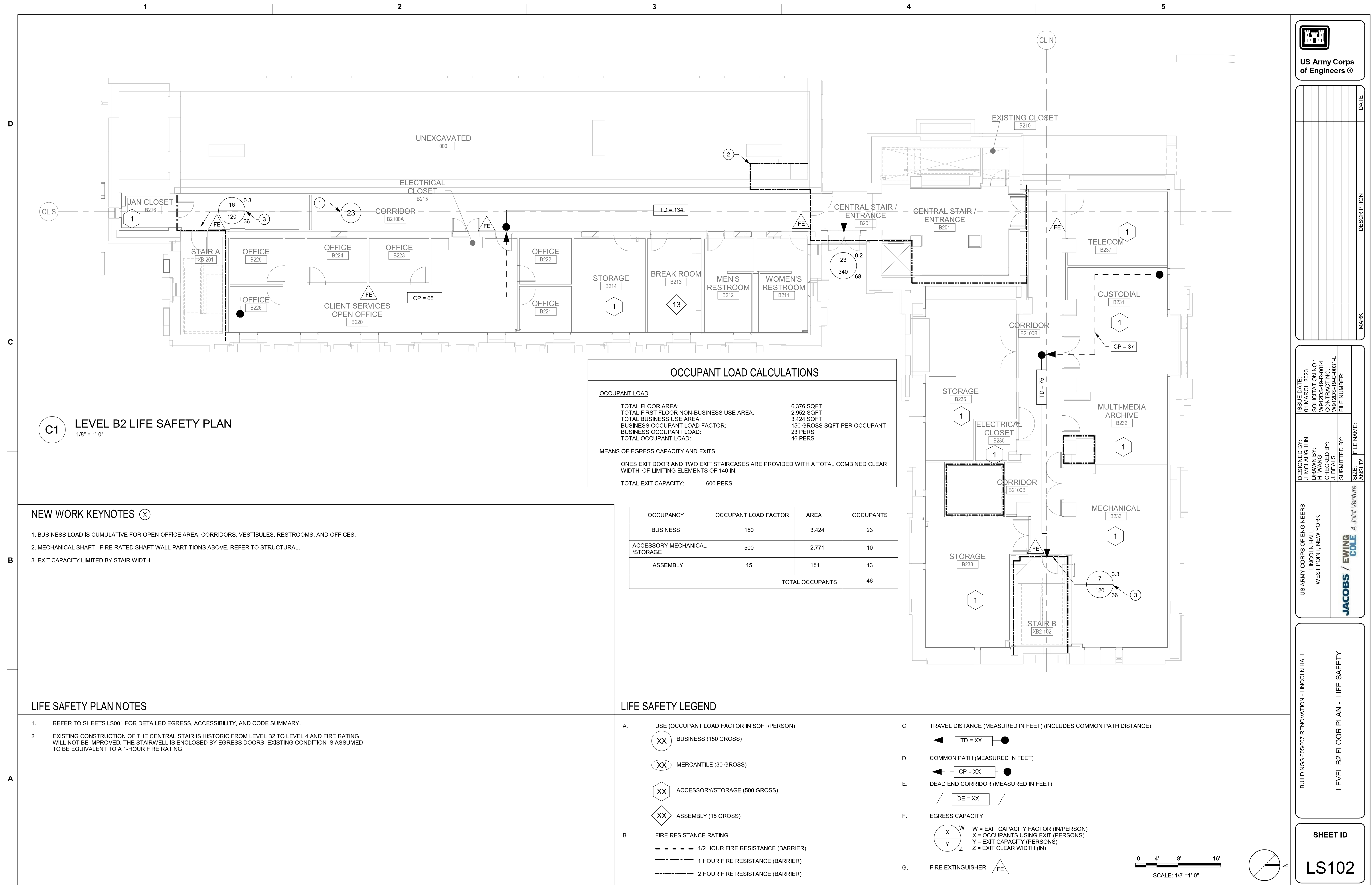
US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SHEET ID

LS101





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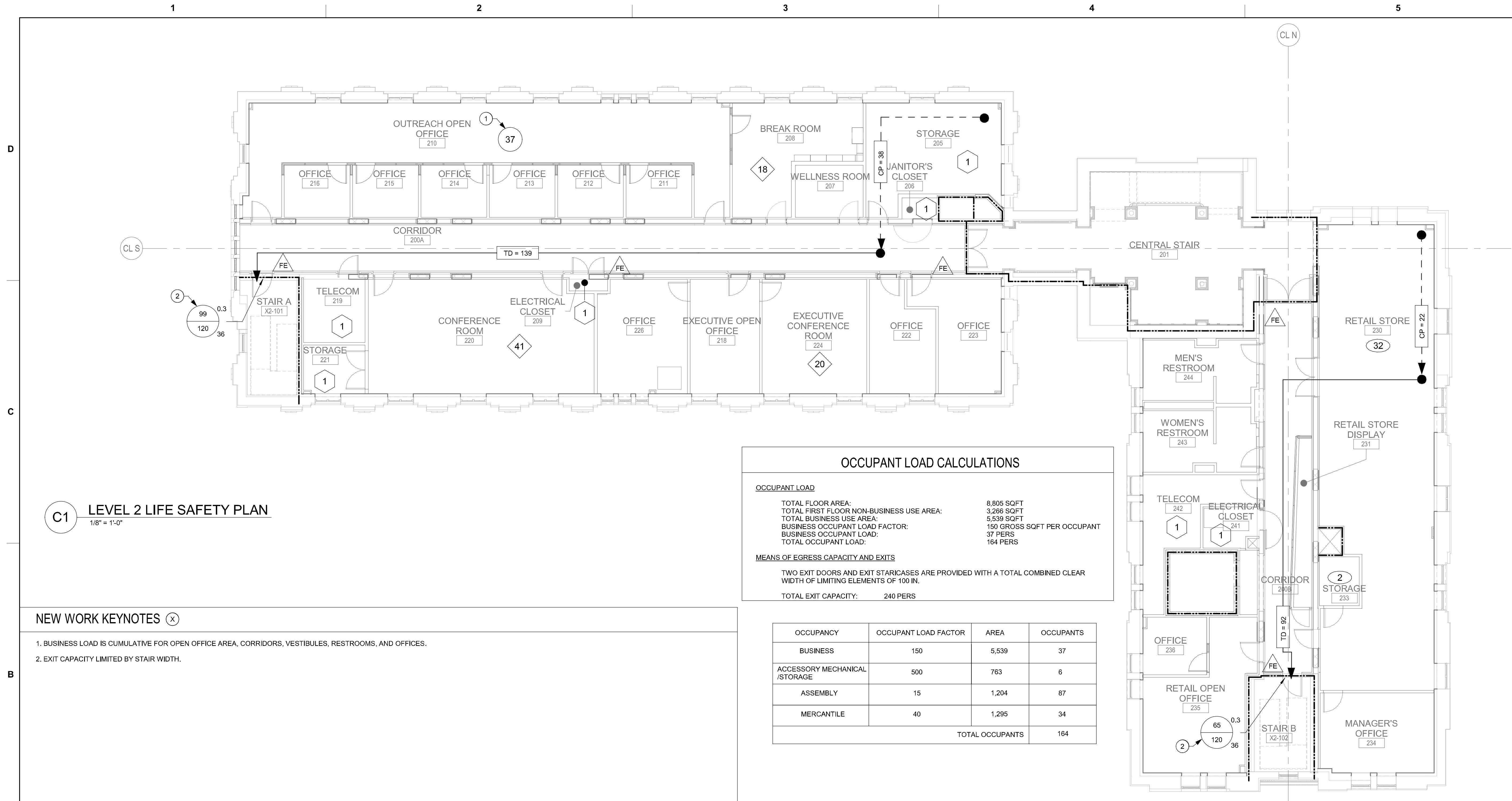
DESIGNED BY: J. MC LAUGHLIN	ISSUE DATE: 01 MARCH 2023
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COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SHEET ID

LS105



NEW WORK KEYNOTES (X)

1. BUSINESS LOAD IS CUMULATIVE FOR OPEN OFFICE AREA, CORRIDORS, VESTIBULES, RESTROOMS, AND OFFICES
2. EXIT CAPACITY LIMITED BY STAIR WIDTH.

LIFE SAFETY PLAN NOTES

1. REFER TO SHEETS LS001 FOR DETAILED EGRESS, ACCESSIBILITY, AND CODE SUMMARY.
2. EXISTING CONSTRUCTION OF THE CENTRAL STAIR IS HISTORIC FROM LEVEL B2 TO LEVEL 4 AND FIRE RATING WILL NOT BE IMPROVED. THE STAIRWELL IS ENCLOSED BY EGRESS DOORS. EXISTING CONDITION IS ASSUMED TO BE EQUIVALENT TO A 1-HOUR FIRE RATING.

OCCUPANT LOAD CALCULATIONS

OCCUPANT LOAD

TOTAL FLOOR AREA:	8,805 SQFT
TOTAL FIRST FLOOR NON-BUSINESS USE AREA:	3,266 SQFT
TOTAL BUSINESS USE AREA:	5,539 SQFT
BUSINESS OCCUPANT LOAD FACTOR:	150 GROSS SQFT PER OCCUPANT
BUSINESS OCCUPANT LOAD:	37 PERS
TOTAL OCCUPANT LOAD:	164 PERS





MEANS OF EGRESS CAPACITY AND EXITS

TWO EXIT DOORS AND EXIT STAIRCASES ARE PROVIDED WITH A TOTAL COMBINED CLEAR WIDTH OF LIMITING ELEMENTS OF 100 IN.


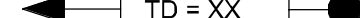

TOTAL EXIT CAPACITY: 240 PERS


OCCUPANCY	OCCUPANT LOAD FACTOR	AREA	OCCUPANTS
BUSINESS	150	5,539	37
ACCESSORY MECHANICAL /STORAGE	500	763	6
ASSEMBLY	15	1,204	87
MERCANTILE	40	1,295	34
TOTAL OCCUPANTS			164

LIFE SAFETY LEGEND

- A. USE (OCCUPANT LOAD FACTOR IN SQFT/PERSON)
-  BUSINESS (150 GROSS)
-  MERCANTILE (30 GROSS)
-  ACCESSORY/STORAGE (500 GROSS)
-  ASSEMBLY (15 GROSS)

- B. FIRE RESISTANCE RATING
- — — — — 1/2 HOUR FIRE RESISTANCE (BARRIER)
- · — · — 1 HOUR FIRE RESISTANCE (BARRIER)
- · — · — · — 2 HOUR FIRE RESISTANCE (BARRIER)

- C. TRAVEL DISTANCE (MEASURED IN FEET) (INCLUDES COMMON PATH DISTANCE)
- 
- D. COMMON PATH (MEASURED IN FEET)
- 
- E. DEAD END CORRIDOR (MEASURED IN FEET)
- 

- F. EGRESS CAPACITY
- 

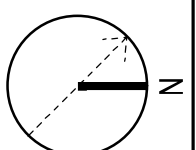
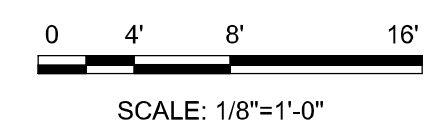
W = EXIT CAPACITY FACTOR (IN/PERSON)

X = OCCUPANTS USING EXIT (PERSONS)

Y = EXIT CAPACITY (PERSONS)

Z = EXIT CLEAR WIDTH (IN)

- G. FIRE EXTINGUISHER 



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LINCOLN HALL
WEST POINT, NEW YORK

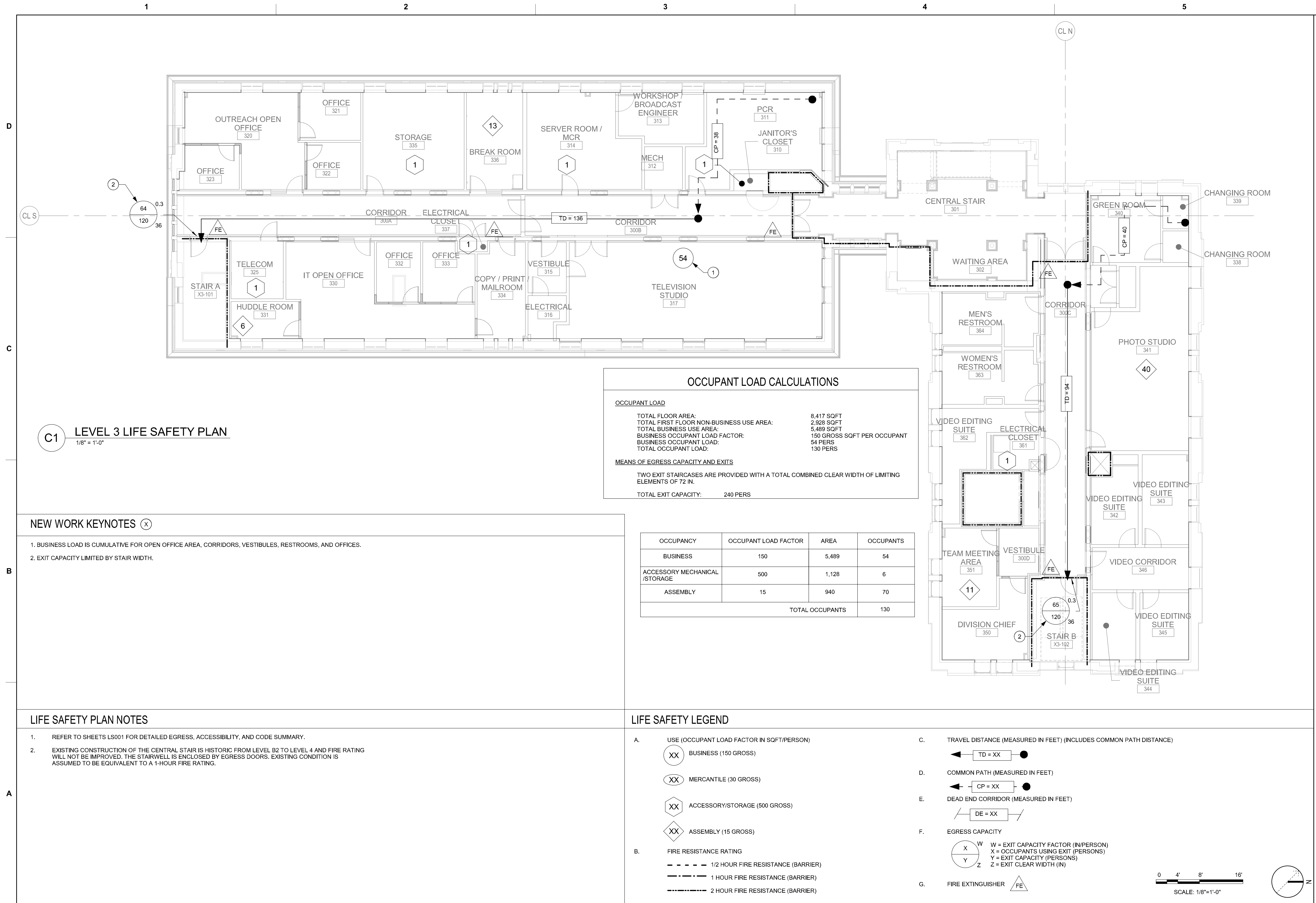
JACOBS / **EWING**
COLE
A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL


LEVEL 3 FLOOR PLAN - LIFE SAFETY

SHEET ID

LS106



[illegible]


JACOBS / **EWING**
COLE

US ARMY CORPS OF ENGINEERS
 LINCOLN HALL
 WEST POINT, NEW YORK

01 MARCH 2023
 J. MCALUGH, J.
 DRAWN BY:
 H. WANG
 CHECKED BY:
 J. BEALS
 FILE NUMBER:

SOLICITATION NO.:
 W912DS-19R-0014
 CONTRACT NO.:
 W912DS-19-C-0031-L

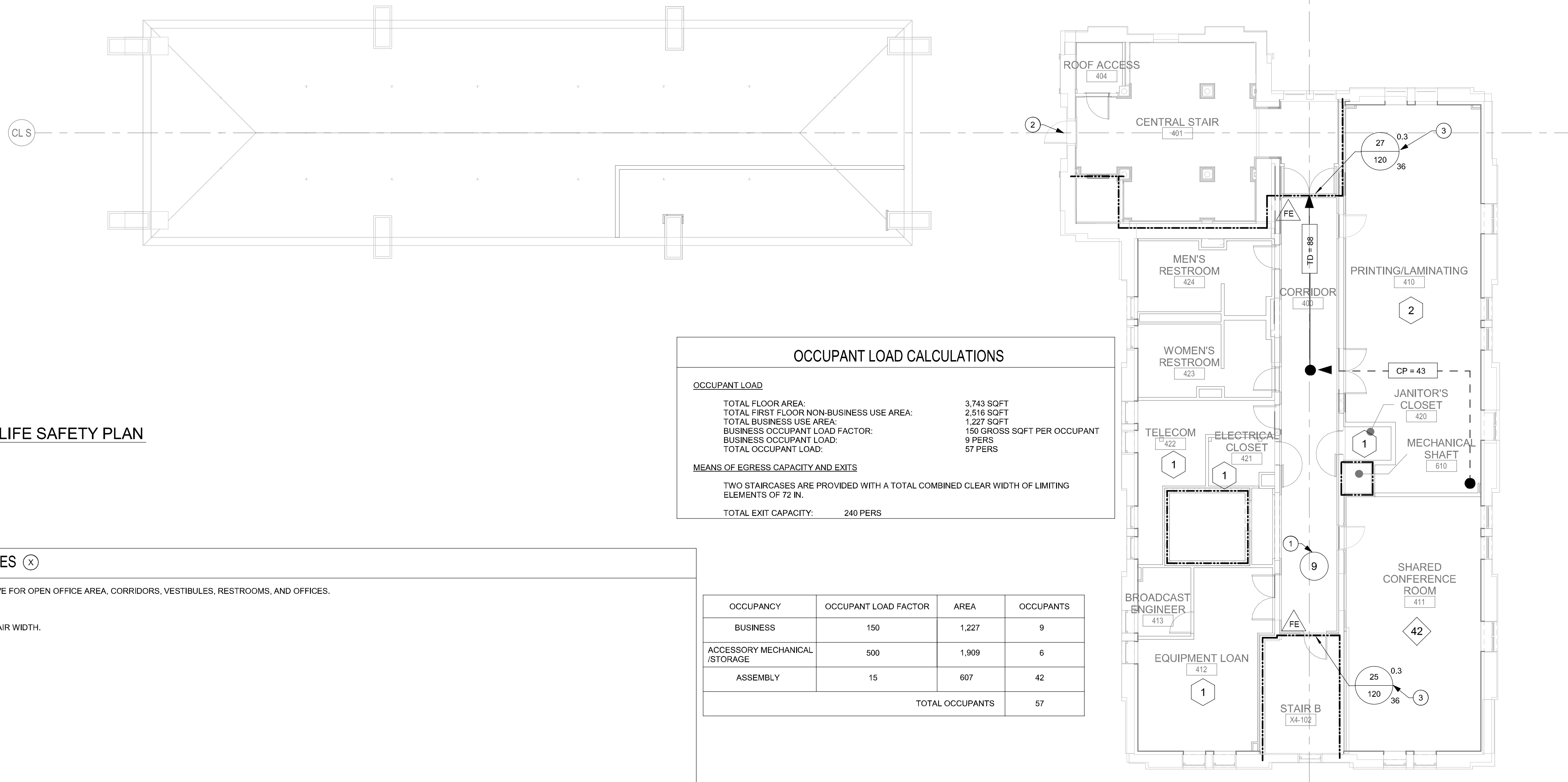
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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4 FLOOR PLAN - LIFE SAFETY

SHEET ID

LS107



NEW WORK KEYNOTES (X)

1. BUSINESS LOAD IS CUMULATIVE FOR OPEN OFFICE AREA, CORRIDORS, VESTIBULES, RESTROOMS, AND OFFICES
2. NOT AN EXIT DOOR.
3. EXIT CAPACITY LIMITED BY STAIR WIDTH.

LIFE SAFETY PLAN NOTES

1. REFER TO SHEETS LS001 FOR DETAILED EGRESS, ACCESSIBILITY, AND CODE SUMMARY.
2. EXISTING CONSTRUCTION OF THE CENTRAL STAIR IS HISTORIC FROM LEVEL B2 TO LEVEL 4 AND FIRE RATING WILL NOT BE IMPROVED. THE STAIRWELL IS ENCLOSED BY EGRESS DOORS. EXISTING CONDITION IS ASSUMED TO BE EQUIVALENT TO A 1-HOUR FIRE RATING.

OCCUPANT LOAD CALCULATIONS

OCCUPANT LOAD

TOTAL FLOOR AREA:	3,743 SQFT
TOTAL FIRST FLOOR NON-BUSINESS USE AREA:	2,516 SQFT
TOTAL BUSINESS USE AREA:	1,227 SQFT
BUSINESS OCCUPANT LOAD FACTOR:	150 GROSS SQFT PER OCCUPANT
BUSINESS OCCUPANT LOAD:	9 PERS
TOTAL OCCUPANT LOAD:	57 PERS

MEANS OF EGRESS CAPACITY AND EXITS

TWO STAIRCASES ARE PROVIDED WITH A TOTAL COMBINED CLEAR WIDTH OF LIMITING ELEMENTS OF 72 IN.

TOTAL EXIT CAPACITY: 240 PERS

OCCUPANCY	OCCUPANT LOAD FACTOR	AREA	OCCUPANTS
BUSINESS	150	1,227	9
ACCESSORY MECHANICAL /STORAGE	500	1,909	6
ASSEMBLY	15	607	42
TOTAL OCCUPANTS			57

LIFE SAFETY LEGEND

- A. USE (OCCUPANT LOAD FACTOR IN SQFT/PERSON)

XX BUSINESS (150 GROSS)

XX MERCANTILE (30 GROSS)

XX ACCESSORY/STORAGE (500 GROSS)

XX ASSEMBLY (15 GROSS)

- B. FIRE RESISTANCE RATING

— — — — — 1/2 HOUR FIRE RESISTANCE (BARRIER)

— • — • — 1 HOUR FIRE RESISTANCE (BARRIER)

----- 2 HOUR FIRE RESISTANCE (BARRIER)


- C. TRAVEL DISTANCE (MEASURED IN FEET) (INCLUDES COMMON PATH DISTANCE)

TD = XX

- D. COMMON PATH (MEASURED IN FEET)

CP = XX

- E. DEAD END CORRIDOR (MEASURED IN FEET)



DE = XX

- ## F. EGRESS CAPACITY

γ^W W = EXIT CAPACITY FACTOR (IN/PERSON)

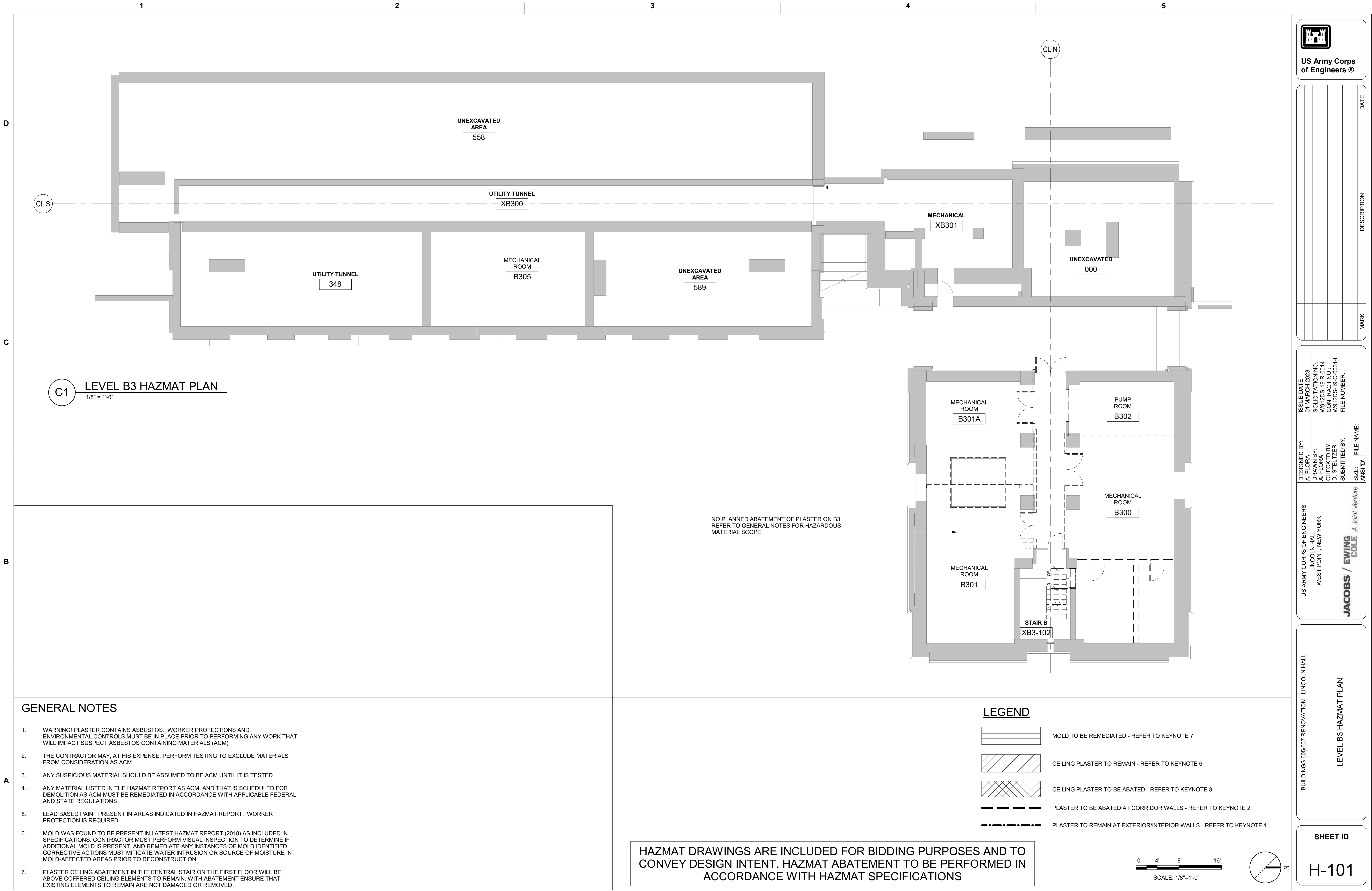
X = OCCUPANTS USING EXIT (PERSONS)
Y = EXIT CAPACITY (PERSONS)

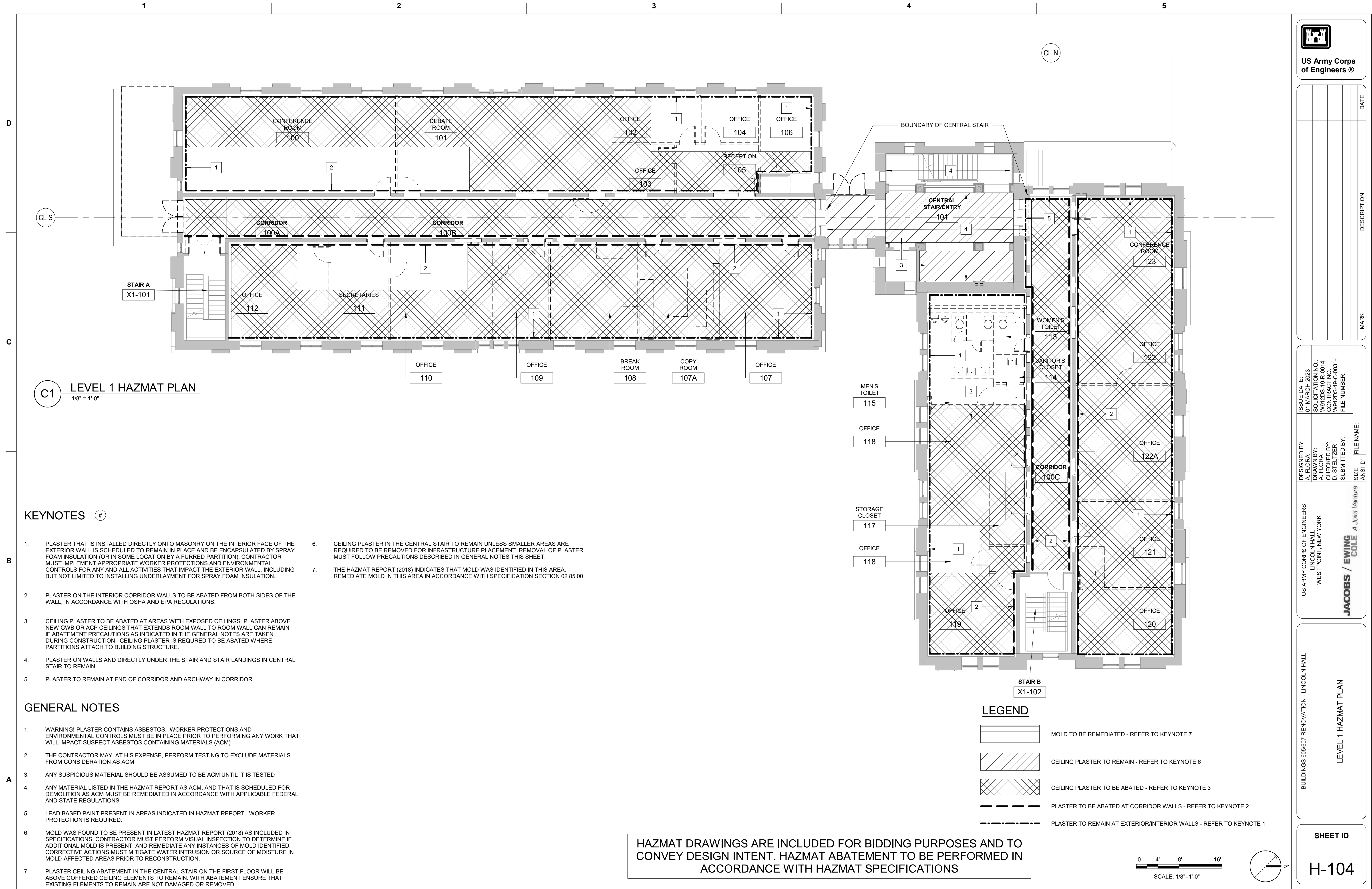
Y = EXIT CAPACITY (PERSONS)
Z = EXIT CLEAR WIDTH (IN)

- G. FIRE EXTINGUISHER 

0 4' 8' 16'

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







[illegible]

ISSUE DATE:	01 MARCH 2023
DESIGNED BY:	A. FLORA
DRAWN BY:	A. FLORA
CHECKED BY:	D. STELTZER
SUBMITTED BY:	
SIZE:	ANSI 'D'
FILE NAME:	
SOLICITATION NO.:	W912DS-19-R-0014
CONTRACT NO.:	W912DS-19-C-0031-L
FILE NUMBER:	

**JACOBS / EWING
COLE** *A Joint Venture*

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

BUILDINGS 905/607 RENOVATION - LINCOLN HALL

SHEET ID

H-107

KEYNOTES


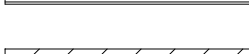
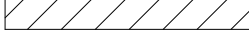


- | | | | |
|----|---|----|--|
| 1. | PLASTER THAT IS INSTALLED DIRECTLY ONTO MASONRY ON THE INTERIOR FACE OF THE EXTERIOR WALL IS SCHEDULED TO REMAIN IN PLACE AND BE ENCAPSULATED BY SPRAY FOAM INSULATION (OR IN SOME LOCATION BY A FURRED PARTITION). CONTRACTOR MUST IMPLEMENT APPROPRIATE WORKER PROTECTIONS AND ENVIRONMENTAL CONTROLS FOR ANY AND ALL ACTIVITIES THAT IMPACT THE EXTERIOR WALL, INCLUDING BUT NOT LIMITED TO INSTALLING UNDERLAYMENT FOR SPRAY FOAM INSULATION. | 6. | CEILING PLASTER IN THE CENTRAL STAIR TO REMAIN UNLESS SMALLER AREAS ARE REQUIRED TO BE REMOVED FOR INFRASTRUCTURE PLACEMENT. REMOVAL OF PLASTER MUST FOLLOW PRECAUTIONS DESCRIBED IN GENERAL NOTES THIS SHEET. |
| 2. | PLASTER ON THE INTERIOR CORRIDOR WALLS TO BE ABATED FROM BOTH SIDES OF THE WALL, IN ACCORDANCE WITH OSHA AND EPA REGULATIONS. | 7. | THE HAZMAT REPORT (2018) INDICATES THAT MOLD WAS IDENTIFIED IN THIS AREA. REMEDIATE MOLD IN THIS AREA IN ACCORDANCE WITH SPECIFICATION SECTION 02 85 00 |
| 3. | CEILING PLASTER TO BE ABATED AT AREAS WITH EXPOSED CEILINGS. PLASTER ABOVE NEW GWB OR ACP CEILINGS THAT EXTENDS ROOM WALL TO ROOM WALL CAN REMAIN IF ABATEMENT PRECAUTIONS AS INDICATED IN THE GENERAL NOTES ARE TAKEN DURING CONSTRUCTION. CEILING PLASTER IS REQUIRED TO BE ABATED WHERE PARTITIONS ATTACH TO BUILDING STRUCTURE. | | |
| 4. | PLASTER ON WALLS AND DIRECTLY UNDER THE STAIR AND STAIR LANDINGS IN CENTRAL STAIR TO REMAIN. | | |
| 5. | PLASTER TO REMAIN AT END OF CORRIDOR AND ARCHWAY IN CORRIDOR. | | |

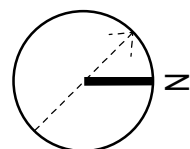
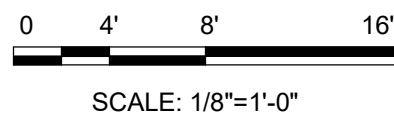
GENERAL NOTES

1. WARNING! PLASTER CONTAINS ASBESTOS. WORKER PROTECTIONS AND ENVIRONMENTAL CONTROLS MUST BE IN PLACE PRIOR TO PERFORMING ANY WORK THAT WILL IMPACT SUSPECT ASBESTOS CONTAINING MATERIALS (ACM)
2. THE CONTRACTOR MAY, AT HIS EXPENSE, PERFORM TESTING TO EXCLUDE MATERIALS FROM CONSIDERATION AS ACM
3. ANY SUSPICIOUS MATERIAL SHOULD BE ASSUMED TO BE ACM UNTIL IT IS TESTED
4. ANY MATERIAL LISTED IN THE HAZMAT REPORT AS ACM, AND THAT IS SCHEDULED FOR DEMOLITION AS ACM MUST BE REMEDIATED IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE REGULATIONS
5. LEAD BASED PAINT PRESENT IN AREAS INDICATED IN HAZMAT REPORT. WORKER PROTECTION IS REQUIRED.
6. MOLD WAS FOUND TO BE PRESENT IN LATEST HAZMAT REPORT (2018) AS INCLUDED IN SPECIFICATIONS. CONTRACTOR MUST PERFORM VISUAL INSPECTION TO DETERMINE IF ADDITIONAL MOLD IS PRESENT, AND REMEDIATE ANY INSTANCES OF MOLD IDENTIFIED. CORRECTIVE ACTIONS MUST MITIGATE WATER INTRUSION OR SOURCE OF MOISTURE IN MOLD-AFFECTED AREAS PRIOR TO RECONSTRUCTION.
7. PLASTER CEILING ABATEMENT IN THE CENTRAL STAIR ON THE FIRST FLOOR WILL BE ABOVE COFFERED CEILING ELEMENTS TO REMAIN. WITH ABATEMENT ENSURE THAT EXISTING ELEMENTS TO REMAIN ARE NOT DAMAGED OR REMOVED.

HAZMAT DRAWINGS ARE INCLUDED FOR BIDDING PURPOSES AND TO
CONVEY DESIGN INTENT. HAZMAT ABATEMENT TO BE PERFORMED IN
ACCORDANCE WITH HAZMAT SPECIFICATIONS

LEGEND

- | | |
|---|---|
|  | MOLD TO BE REMEDIATED - REFER TO KEYNOTE 7 |
|  | CEILING PLASTER TO REMAIN - REFER TO KEYNOTE 6 |
|  | CEILING PLASTER TO BE ABATED - REFER TO KEYNOTE 3 |
|  | PLASTER TO BE ABATED AT CORRIDOR WALLS - REFER TO KEYNOTE 2 |
|  | PLASTER TO REMAIN AT EXTERIOR/INTERIOR WALLS - REFER TO KEYNOTE 1 |



G

- F

ITEM

OLLARD

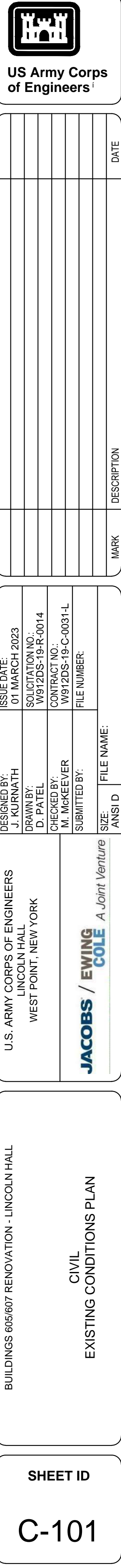
ABA	ARCHITECTURAL BARRIERS ACT
ABC	AGGREGATE BASE COURSE
AC	ACRES
ADA	AMERICAN WITH DISABILITIES ACT
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AW	AMERICAN WATER
BC	BOTTOM OF CURB
BIT.	BITUMINOUS
BLDG	BUILDING
CB	CATCH BASIN
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
COMM	COMMUNICATION
CONC	CONCRETE
CORS	CONTINUOUSLY OPERATING REFERENCE STATION
CW	CHILLED WATER
DC	DEPRESSED CURB
DGA	DENSE GRADED AGGREGATE
DIA.	DIAMETER
DIP	DUCTILE IRON PIPE
DIM.	DIMENSION
DMH	DRAINAGE MANHOLE
DPW	DIRECTORATE OF PUBLIC WORKS
DWG	DRAWING
EA	EACH
ELEC.	ELECTRIC
EL./ELEV.	ELEVATION
EM	ENGINEERS MANUAL
EOP	EDGE OF PAVEMENT
ETC	ET CETERA
EX./EXIST.	EXISTING
FES	FLARED END SECTION
FF	FINISHED FLOOR
GR	GRATE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
IN.	INCH
INV	INVERT
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PERF.	PERFORATED
PIV	POST INDICATOR VALVE
PROP.	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REIN.	REINFORCED
REQ'D	REQUIRED
SAN	SANITARY
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FEET
SMH	SANITARY MANHOLE
STA.	STATION
TBR	TO BE REMOVED
TC	TOP OF CURB
TP	TOP OF CONCRETE PAD
TW	TOP OF WALL
TYP.	TYPICAL
UFC	UNIFIED FACILITIES CRITERIA
USMA	UNITED STATES MILITARY ACADEMY
W/	WITH
WWF	WELDED WIRE FABRIC

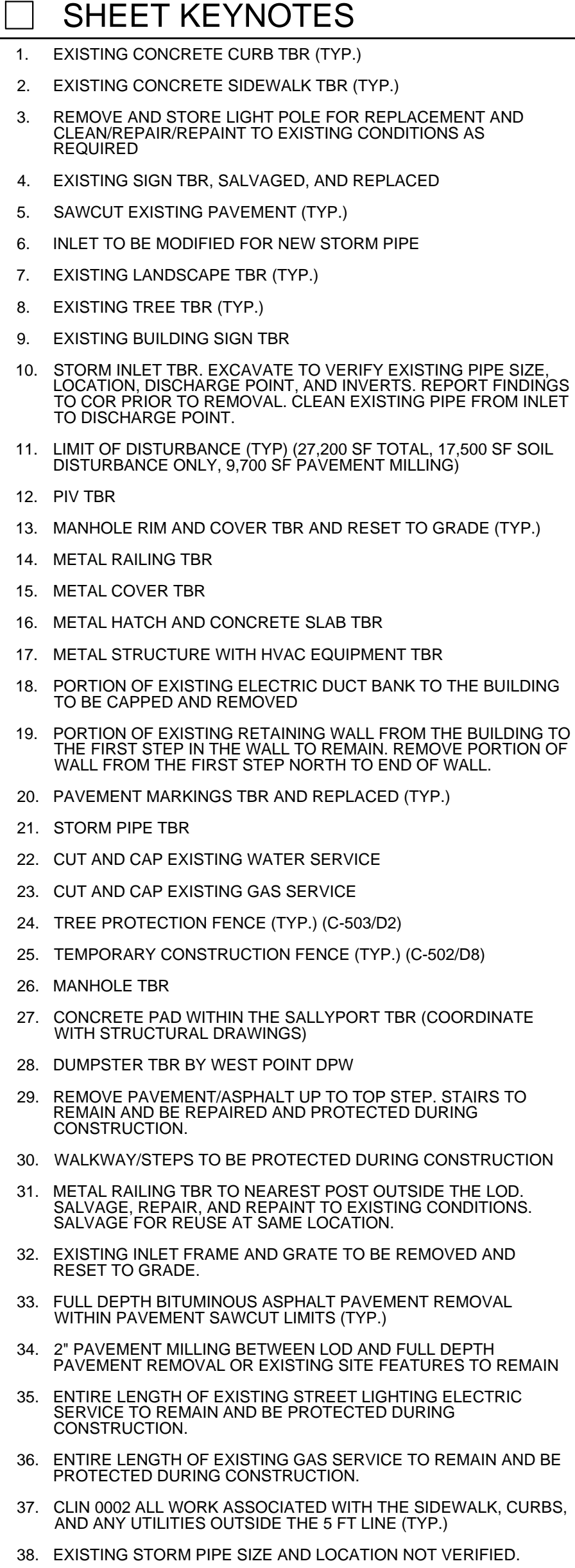


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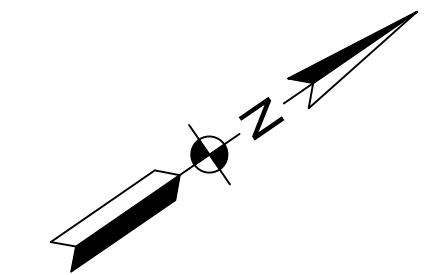
ARMY CORPS OF ENGINEERS
LINCOLN HALLBUILDINGS 605/607 RENOVATION - LINCOLN HALL

C-002







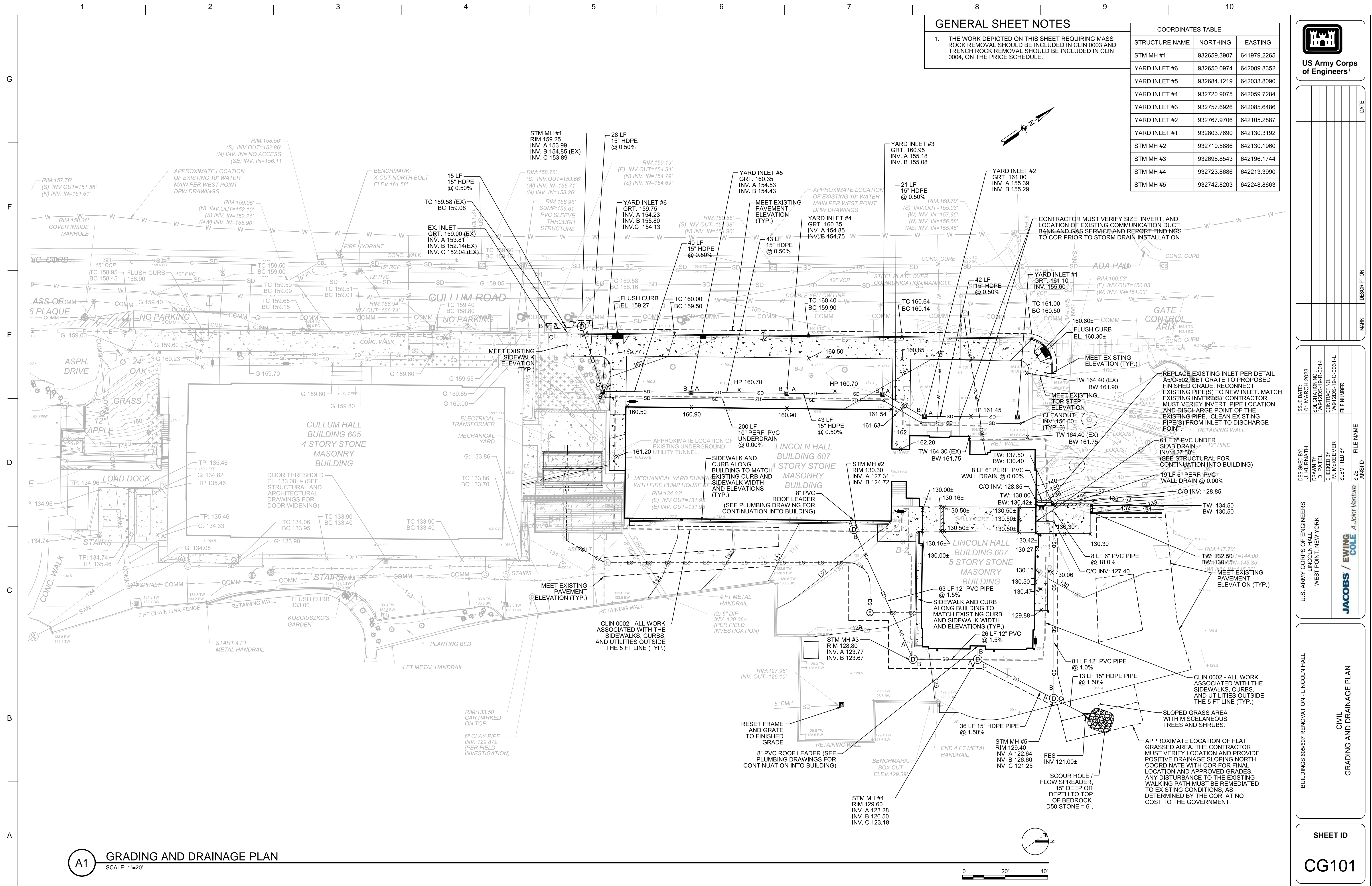
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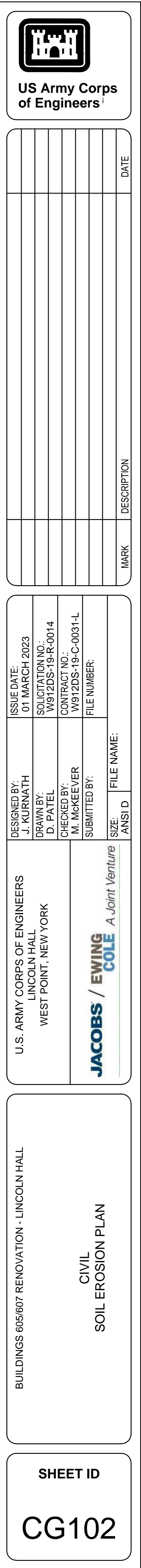
JACOBS / EWING COLE	A Joint Venture	
	SIZE: ANSI D	FILE NAME:
U.S. ARMY CORPS OF ENGINEERS LINCOLN HALL WEST POINT, NEW YORK	DRAWN BY: J. KURNATH	DATE: 01 MARCH 2023
	CHECKED BY: M. MCKEEVER	CONTRACT NO.: W91ZDS-19-C-0031-L
	SUBMITTED BY: FILE NUMBER:	SQUADATION NO.: W91ZDS-19-R-0014

CIVIL
CONSTRUCTION LOGISTICS PLAN

SHEET ID

CS103





CONTRACTION JOINT
NOTE: ALL DOWEL BARS TO BE #4 BARS

NOT TO SCALE



1. BACKFILL IN EMBEDMENT ZONE MUST BE PLACED BY HAND IN 6-INCH LIFTS ON BOTH SIDES OF PIPE TO PREVENT DISPLACEMENT. COMPACT TO 95% MAX. DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.
2. EXCAVATED MATERIAL CAN BE USED AS BACKFILL PROVIDED THE MATERIAL MEETS THE REQUIREMENTS WITHIN THE PROJECT SPECIFICATIONS.
3. PROVIDE NON-MAGNETIC WARNING TAPE FOR METAL PIPE AND MAGNETIC WARNING TAPE FOR PLASTIC OR NON-METAL PIPE.

NOT TO SCALE



1. CONCRETE SHALL BE 4,000 PSI MIN.
2. STRUCTURE SHALL BE PRECAST.
3. FRAME & GRATE TO BE EJ CO. V-5324-1 (DRAINS TO WATERWAYS) OR APPROVED EQUAL.
4. INLET SHALL BE DESIGNED FOR H-25 LOADING BY THE MANUFACTURER OR AN ENGINEER LICENSED IN THE STATE OF NEW YORK.

NOT TO SCALE



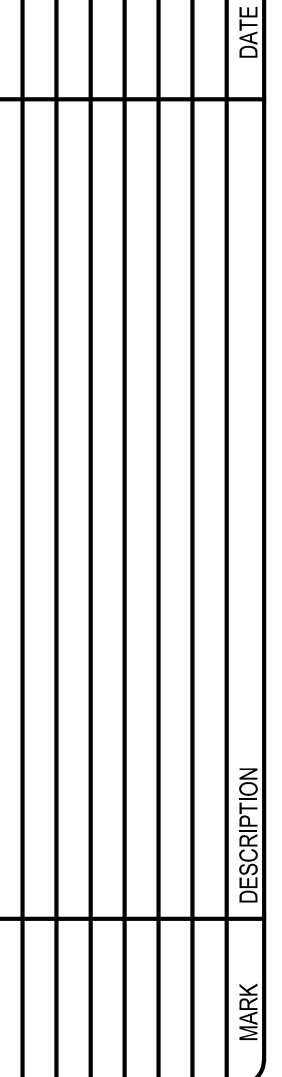
1. FENCE SECTIONS MUST BE 8' WIDE, 8' HIGH, AND ALL MATERIAL BLACK VINYL COATED GALVANIZED.
2. FENCE MUST CONFORM TO THE REQUIREMENTS OF ASTM A-392 UNLESS OTHERWISE SPECIFIED.
3. CONTRACTOR MUST PROVIDE FENCE AND FENCE MATERIAL SHOP DRAWINGS AND WIND/SNOW LOAD CALCULATIONS PRIOR TO CONSTRUCTION. FENCE CALCULATIONS MUST BE SIGNED AND SEALED BY AN ENGINEERING PROFESSIONAL LICENSED IN THE STATE OF NEW YORK.
4. THE FENCE SYSTEM, PANEL SECURING METHOD, AND SANDBAG QUANTITY MUST BE FINALIZED BY THE FENCE MANUFACTURER AND SUBMITTED TO THE COLOR REVIEW AND APPROVAL. ALL FENCE SECTIONS MUST BE PROPERLY SECURED AT ALL TIMES AS REQUIRED BY THE MANUFACTURER.
5. ADVERTISING SHALL NOT BE PERMITTED ON TEMPORARY CONSTRUCTION FENCE FABRIC WIRE MESH.
6. PRIVACY SCREENING IS NOT PERMITTED ON CHAIN LINK FENCES AND GATES.

D8



1. EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 20', AND AT ALL JUNCTIONS W/CONCRETE, MASONRY, OR METALS. JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, 1/2" THICK, CONFORMING TO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND FRONT OF THE CONCRETE CURB.
2. REFER TO "CIVIL CONCRETE AND REINFORCEMENT NOTES" ON DRAWING SHEET C-001 FOR CONCRETE REQUIREMENTS.

NOT TO SCALE



JACOBS / EWING COLE	A Joint Venture	
	LINCOLN HALL WEST POINT, NEW YORK	SIZE: 10,000 SQ. FT. FILE NAME:
D. PATEL M. McKEEVER	CONTRACT NO.: W912DS-19-C-0031-1 FILE NUMBER:	DATE: 01-MARCH-2023 DRAWING: W912DS-19-R-0014

CONSTRUCTION DETAILS

SHEET ID

C-502

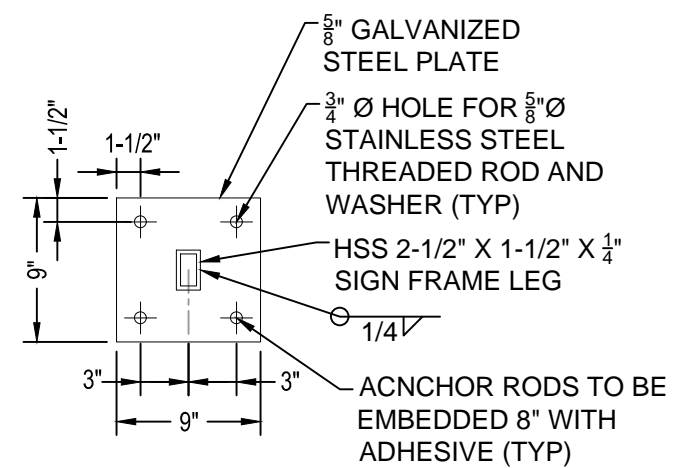
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JACOBS / EWING COLE <i>A Joint Venture</i>	WEST POINT, NEW YORK		DRAWN BY: D. PATEL	SOLICITATION NO.: W912DS-19-R-0014
			CHECKED BY: J. KORNATH	CONTRACT NO.: W912DS-19-C-0031-L
		SUBMITTED BY:	FILE NUMBER:	
		SITE: ANS/D	FILE NAME:	

CONSTRUCTION DETAILS

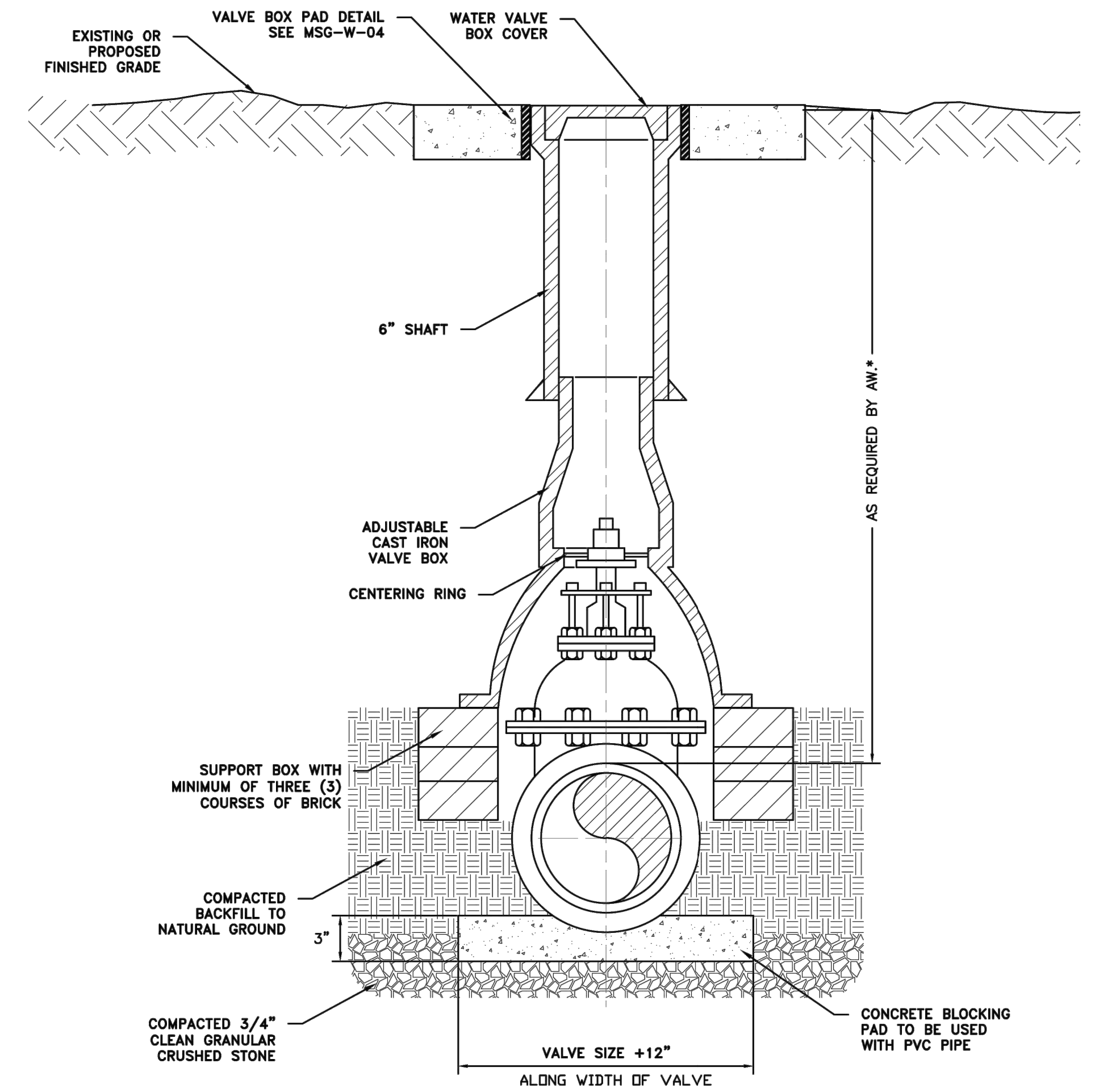
EET ID

C-505



NOTE:
REFER TO "CIVIL CONCRETE AND REINFORCEMENT NOTES" ON DRAWING SHEET C-001 FOR CONCRETE REQUIREMENTS.

A4 EXTERIOR SIGN FOUNDATION DETAIL
NOT TO SCALE



A9 AW - GATE VALVE AND VALVE BOX DETAIL
NOT TO SCALE

D

C

B

A

DESIGN CRITERIA
THE STRUCTURAL DESIGN CONFORMS TO THE FOLLOWING CODES/STANDARDS:
1. UFC 1-200-01 GENERAL BUILDING REQUIREMENTS (8 OCT 2019)
2. UFC 3-301-01 STRUCTURAL ENGINEERING (1 OCT 2019). WIND, SNOW AND SEISMIC LOAD PARAMETERS ARE FROM THE WEBSITE REFERENCED BY UFC 3-301-01 (https://www.wbdg.org/additional-resources/tools/ufcsldt)
3. ASCE/SEI 7-16 MINIMUM DESIGN LOADS AND CRITERIA FOR BUILDINGS AND OTHER STRUCTURES, AS MODIFIED BY THE UFC
4. 2018 INTERNATIONAL BUILDING CODE, AS MODIFIED BY THE UFC
5. 2018 INTERNATIONAL EXISTING BUILDING CODE, AS MODIFIED BY THE UFC

DRAWING ORGANIZATION
1. ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS ARE RELATIVE TO TOP OF FIRST/GROUND FLOOR SLAB. SEE CIVIL FOR ACTUAL TOP OF FIRST/GROUND FLOOR ELEVATION (MEAN SEA LEVEL DATUM).
2. DETAILS LABELED "TYPICAL DETAILS" OR DETAILS ON "TYPICAL DETAILS" SHEETS APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS AND DIMENSIONS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION.
3. SLOPING DECK PLANES ARE USUALLY DEFINED BY A WORK POINT ELEVATION AND A SLOPE. STEEL MEMBERS SUPPORTING A SLOPING DECK PLANE HAVE THEIR TOP OF STEEL COINCIDENT WITH THE BOTTOM OF DECK. EXCEPTIONS TO THIS ARE STEEL BEAMS THAT SUPPORT JOISTS THAT SUPPORT SLOPING DECK--IN THIS CASE, THE STEEL BEAMS ARE OFFSET DOWNWARD BY THE JOIST SEAT DEPTH.

CONSTRUCTION REQUIREMENTS
1. REVIEW AND VERIFY AS-BUILT CONDITIONS AND ACTUAL EQUIPMENT DIMENSIONS USING APPROVED MANUFACTURER/ VENDOR DRAWINGS PRIOR TO SUBMISSION OF SHOP DRAWINGS.
2. REVIEW AND VERIFY LOCATION OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS. COORDINATE WITH OTHER DISCIPLINE SHEETS.
3. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
4. DO NOT STORE OR STACK CONSTRUCTION MATERIALS ON FLOORS/ROOFS IN EXCESS OF 80 PERCENT OF LIVE LOAD.
5. PROVIDE BRACING AND SHORING TO MAINTAIN THE STABILITY OF, AND TO AVOID OVER-LOADING THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURE IS DESIGNED FOR THE COMPLETED CONDITION ONLY. PROVIDE TEMPORARY SUPPORT TO MAINTAIN STABILITY/AVOID OVER-LOADING BEFORE COMPLETION. THE CONTRACTOR FOR THIS WORK MUST EMPLOY A PROFESSIONAL STRUCTURAL ENGINEER, LICENSED IN THE STATE OF NEW YORK, TO DESIGN TEMPORARY SHORING, BRACING, GUYS, AND PROTECTION OF THE EXISTING STRUCTURE, UNDERPINNING AND SHEETING DURING INSTALLATION OF THE NEW WORK. THESE SHORING SYSTEMS MUST BE PART OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. THE ENGINEER EMPLOYED BY THIS CONTRACTOR MUST DEVELOP THE SPECIFIC SEQUENCE OF INSTALLATION OF EACH COMPONENT INCLUDING STEEL LINTEL ELEMENTS. THE CONTRACTOR'S ENGINEER MUST BE PRESENT DURING INSTALLATION TO ENSURE THE OPERATION IS IN COMPLIANCE WITH HIS DESIGN INTENT.
6. CUT NO HOLES IN STRUCTURAL MEMBERS WITHOUT APPROVAL FROM THE COR.

DESIGN LOADS
1. FLOOR LIVE LOAD
A. FLOOR LIVE LOAD: SEE LOAD PLANS
2. ROOF LIVE LOAD
A. ROOF LIVE LOAD: 20 PSF
3. COLLATERAL LOAD
A. CEILING, LIGHTS, PIPING, DUCTS: 10 PSF
B. EXISTING FLOOR SUBSTRATES AND FINISHES: 40 PSF
4. SNOW
A. GROUND SNOW LOAD: 30 PSF
B. FLAT-ROOF SNOW LOAD: 17 PSF
C. MINIMUM SNOW LOAD: 20 PSF
D. SLOPED ROOF SNOW LOAD: 13.1 PSF
E. SNOW LOAD IMPORTANCE FACTOR: 1.0
F. THERMAL FACTOR: 1.0
5. WIND
A. ULTIMATE DESIGN WIND SPEED: 113 MPH
B. RISK CATEGORY: II
C. WIND EXPOSURE: D
D. INTERNAL PRESSURE COEFFICIENT: +/-0.18
6. EARTHQUAKE
A. RISK CATEGORY: II
B. SEISMIC IMPORTANCE FACTOR: 1.0
C. S_s: 0.261g S₁: 0.059g
D. SITE CLASS: C
E. S_{0s}: 0.208g S₀₁: 0.067g
F. SEISMIC DESIGN CATEGORY: B
G. AS IS ALLOWABLE BY APPLICABLE CODES, THE SEISMIC FORCE-RESISTING SYSTEM WAS NOT EVALUATED DUE TO SEISMIC LOADS NOT INCREASING BY MORE THAN 10%.
H. DESIGN BASE SHEAR: NOT APPLICABLE
I. SEISMIC RESPONSE COEFFICIENT, C_s: NOT APPLICABLE
J. RESPONSE MODIFICATION COEFFICIENT, R: NOT APPLICABLE
K. ANALYSIS PROCEDURE USED: NOT APPLICABLE
7. FROST PENETRATION: 54 INCHES

GEOTECHNICAL
1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON, ENTITLED "GEOTECHNICAL ENGINEERING REPORT - CULLUM AND LINCOLN HALL", DATED 14 JAN 2020. THE REPORT RECOMMENDS:
A. 3000 PSF ALLOWABLE BEARING CAPACITY FOR FOOTINGS BEARING ON FILL.
2. BELOW SLABS-ON-GRADE PROVIDE: TEMPORARY AND PERMANENT SUBDRAINAGE.
3. CONCRETE-SOIL COEFFICIENT OF FRICTION: 0.35

CONCRETE
1. CONCRETE DESIGN CONFORMS TO ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AS MODIFIED BY THE UFC.
2. REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED.
3. MINIMUM 28-DAY COMPRESSIVE STRENGTHS:
A. FOOTINGS: 4000 PSI
B. FOUNDATION WALLS: 5000 PSI
C. SLABS-ON-GRADE: 3500 PSI
D. ELEVATED SLABS: 4000 PSI
E. TOPPING SLAB: 5000 PSI
F. CONCRETE FILLED METAL DECK: 3000 PSI LIGHTWEIGHT
4. COVER FOR CONCRETE REINFORCEMENT:
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
B. EXPOSED TO EARTH OR WEATHER WHERE FORMS ARE USED: #6 AND LARGER, 2 INCHES; #5 AND SMALLER 1-1/2 INCHES.
C. NOT EXPOSED TO EARTH OR WEATHER:
1. SLABS AND WALLS: #14 AND LARGER, 1-1/2 INCHES; #11 AND SMALLER, 1 INCH.
2. BEAMS, GIRDERS AND COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS: 1-1/2 INCHES.
5. UNLESS NOTED OTHERWISE, PROVIDE WWR 6x6-W4.5xW4.5 WITH 3/4" TOP COVER IN CONCRETE FILLED METAL DECKS. WWR MUST CONFORM WITH ASTM A1064.
6. WELDED WIRE REINFORCEMENT SHALL BE ASTM A 185 (65 KSI YIELD STRESS) 6x6-W1.4xW1.4 WITH 3/4" TOP COVER.

MASONRY
1. MASONRY DESIGN CONFORMS TO TMS 402-2016 BUILDING CODE FOR MASONRY STRUCTURES, AS MODIFIED BY THE UFC.
2. MASONRY NET AREA COMPRESSIVE STRENGTH AT 28-DAYS: 1500 PSI.
3. REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
GROUT: PROVIDE GROUT CONFORMING TO ASTM C476, FINE. PROVIDE MINIMUM GROUT STRENGTH OF 2000 PSI AT 28 DAYS, AS TESTED IN ACCORDANCE ASTM C1019.
5. MORTAR: PROVIDE TYPE N OR S MORTAR FOR NON-LOAD-BEARING, NON-SHEAR-WALL INTERIOR MASONRY. PROVIDE TYPE N UNLESS SPECIFIED OTHERWISE.
6. UNLESS NOTED OTHERWISE, MASONRY BOND BEAMS MUST BE 8" DEEP WITH 1#5.
7. MASONRY WALL OPENINGS: PROVIDE MINIMUM OF 0.2IN*2 VERTICAL REINFORCEMENT AT CORNERS WITH A MAXIMUM SPACING OF 16 IN UNLESS REINFORCEMENT IS INTERRUPTED. HORIZONTAL REINFORCEMENT IS REQUIRED AT THE TOP AND BOTTOM OF WALL OPENINGS AND SHALL EXTEND AT LEAST 24 IN BUT NOT LESS THAN 40 BAR DIAMETERS PAST THE OPENING. VERTICAL AND HORIZONTAL REINFORCEMENT NEED NOT BE REQUIRED FOR OPENINGS SMALLER THAN 16 IN.

STRUCTURAL STEEL
1. STRUCTURAL STEEL DESIGN CONFORMS TO AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AS MODIFIED BY THE UFC.
2. STRUCTURAL STEEL MATERIALS:
A. W-SHAPES: ASTM A992, GRADE 50
B. CHANNELS: ASTM A 36
C. PLATE AND BAR: ASTM A572, GRADE 50
D. COLD-FORMED HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE C
E. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B
F. WELDING ELECTRODES: COMPLY WITH AWS REQUIREMENTS. PROVIDE FILLER METAL WITH A MINIMUM TENSILE STRENGTH OF 70 KSI.
3. BOLTS, CONNECTORS AND ANCHORS:
A. HIGH-STRENGTH BOLTS: ASTM A325, TYPE 1, HEAVY-HEX STRUCTURAL STEEL BOLTS
B. NUTS: ASTM A563, GRADE C, HEAVY-HEX CARBON STEEL NUTS
C. WASHERS: ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS; ALL WITH PLAIN FINISH
D. THREADED RODS: ASTM A36
E. TENSION-CONTROL, HIGH-STRENGTH BOLT-NUT-WASHER ASSEMBLIES: ASTM F1852, TYPE 1, CONSISTING OF STEEL STRUCTURAL BOLTS WITH SPLINED ENDS, HEAVY-HEX CARBON-STEEL NUTS, AND HARDENED CARBON-STEEL WASHERS.
F. FOR THE BOLTED CONNECTIONS DESIGNED AND DETAILED ON THESE DRAWINGS, BOLTS ARE A325N, SNUG TIGHTENED, UNLESS NOTED OTHERWISE.
4. DESIGN ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS, UNLESS REACTIONS ARE INDICATED ON THE DRAWINGS, PROVIDE SHEAR CONNECTIONS WITH A FACTORED CAPACITY OF AT LEAST 30 KIPS. IN ADDITION TO THE REQUIREMENTS ABOVE, USE AT LEAST THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHOWN IN THE FOLLOWING TABLE:

NOMINAL BEAM DEPTH	MINIMUM BOLT ROWS
8, 10, 12	2
14, 16, 18	3
21, 24	4
27, 30	5

FIREPROOFING
1. THE EXISTING STEEL BEAMS ON PLAN SHOULD BE ENTIRELY FIREPROOFED. IF UPON INSPECTION FIREPROOFING IS DAMAGED, REPAIR WITH SIMILAR FIREPROOFING MATERIAL. IF FIREPROOFING IS NON-EXISTENT, PROVIDE CEMENTITIOUS FIREPROOFING.
2. THE ATTIC SPACE OF THE SOUTH WING CONSISTS OF ROOF TRUSSES. THESE ROOF TRUSSES SHOULD BE FIREPROOFED. IF THEY ARE NOT FIREPROOFED PROVIDE CEMENTITIOUS FIREPROOFING. IF UPON INSPECTION FIREPROOFING IS DAMAGED, REPAIR WITH SIMILAR FIREPROOFING MATERIAL.
3. THE SOUTH WING ROOF TRUSS AREA THAT IS ABOVE THE TV STUDIO IN THE SOUTH WING IS TO BE FIREPROOFED WITH CEMENTITIOUS FIREPROOFING. IF CEMENTITIOUS FIREPROOFING EXISTS, INSPECT AND REPAIR AS NEEDED. IF ANY OTHER TYPE OF FIREPROOFING EXISTS, REMOVE AND REPLACE WITH CEMENTITIOUS FIREPROOFING. REFER TO ARCH FOR THE SOUTH WING TV STUDIO AREA.
4. REFER TO ARCH FOR AREAS OF INTUMESCENT FIREPROOFING.

STEEL JOIST FRAMING
1. SJI 100-15 44TH EDITION STANDARD SPECIFICATION LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS K-SERIES, LH-SERIES, DLH-SERIES, JOIST GIRDERS, AS MODIFIED BY THE UFC.
2. PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS.


STEEL DECKING
1. NONCOMPOSITE DECK DESIGN CONFORMS WITH SDI NC-2017 STANDARD FOR NONCOMPOSITE STEEL FLOOR DECK, AS MODIFIED BY THE UFC
2. ROOF DECK DESIGN CONFORMS WITH SDI RD-2017 STANDARD FOR STEEL ROOF DECK, AS MODIFIED BY THE UFC
3. COMPOSITE DECK DESIGN CONFORMS WITH SDI-C-2017 STANDARD FOR COMPOSITE STEEL FLOOR DECK SLABS, AS MODIFIED BY THE UFC.

COLD-FORMED METAL FRAMING
1. COLD-FORMED METAL FRAMING DESIGN MUST CONFORM TO AISI S100-16 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AS MODIFIED BY THE UFC.

POST-INSTALLED ANCHORS
1. MATERIALS:
A. CARBON STEEL WEDGE ANCHOR STUDS: ASTM A 510 OR ASTM A 108.
B. NUT & WASHER: COMPATIBLE WITH STUD MATERIAL & FINISH.
C. CARBON STEEL THREADED ROD: ISO 898 CLASS 5.8.
D. CONCRETE REINFORCING DOWELS: ASTM A 615, GRADE 60
E. MESH SCREEN TUBE: CYLINDRICAL SHAPE WITH ONE END CLOSED MANUFACTURED FROM ZINC PLATED LOW CARBON STEEL OR STAINLESS STEEL. MESH SIZE, DIAMETER, AND LENGTH AS SPECIFIED BY ADHESIVE MANUFACTURER.
2. MECHANICAL ANCHORS AND THREADED INSERTS MUST BE CARBON STEEL WITH ZINC PLATING IN ACCORDANCE WITH ASTM B 633,TYPE III Fe/Zn 5 (SC1), UNLESS NOTED OTHERWISE.
3. POST-INSTALLED ANCHORS MANUFACTURED BY HILTI, INC. ARE SPECIFIED AS A BASIS OF DESIGN AND TO ESTABLISH THE DESIRED QUALITY AND PERFORMANCE OF THE WORK. OTHER APPROVED MANUFACTURERS ARE:
A. SIMPSON STRONG TIE.
B. POWERS FASTENERS.
4. ANCHORING TO CONCRETE: TYPE AND SIZE AS INDICATED.
A. MECHANICAL ANCHORS:
a. MECHANICAL ANCHORS USED IN CONCRETE MUST HAVE BEEN TESTED AND PREQUALIFIED FOR PERFORMANCE IN CRACKED AND UNCRACKED CONCRETE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193, INCLUDING SEISMIC SHEAR AND TENSION.
b. EXPANSION ANCHORS: WEDGE TYPE, TORQUE CONTROLLED ANCHORS.
B. ADHESIVE ANCHORS:
a. ANCHORS CONSISTING OF AN INSERT AND CARTRIDGE TYPE, TWO COMPONENT, EPOXY OR HYBRID ADHESIVE DISPENSED AND MIXED THROUGH A STATIC MIXING NOZZLE PROVIDED BY THE ADHESIVE MANUFACTURER.
b. ADHESIVE MUST HAVE BEEN TESTED AND PREQUALIFIED FOR PERFORMANCE IN CRACKED AND UNCRACKED CONCRETE IN ACCORDANCE WITH ICC-ES AC308, INCLUDING SEISMIC SHEAR & TENSION, HORIZONTAL AND OVERHEAD INSTALLATIONS, AND LONG TERM CREEP.
5. ANCHORING TO GROUTED FILLED CONCRETE MASONRY: TYPE AND SIZE AS INDICATED.
A. EXPANSION ANCHORS MUST BE WEDGE TYPE, TORQUE CONTROLLED ANCHORS AND SHALL HAVE BEEN TESTED AND PREQUALIFIED IN ACCORDANCE WITH ICC-ES AC01, INCLUDING SEISMIC SHEAR AND TENSION.
B. SCREW ANCHORS USED IN GROUT FILLED CONCRETE MASONRY MUST HAVE BEEN TESTED AND PREQUALIFIED IN ACCORDANCE WITH ICC-ES AC106, INCLUDING SEISMIC SHEAR AND TENSION.
C. ADHESIVE ANCHORS:
a. ANCHORS CONSISTING OF AN INSERT AND CARTRIDGE TYPE, TWO COMPONENT, EPOXY OR HYBRID ADHESIVE DISPENSED AND MIXED THROUGH A STATIC MIXING NOZZLE PROVIDED BY THE ADHESIVE MANUFACTURER.
b. ADHESIVE MUST HAVE BEEN TESTED AND PREQUALIFIED IN ACCORDANCE WITH ICC-ES AC58, INCLUDING SEISMIC SHEAR AND TENSION, FREEZE-THAW CONDITIONS, CRITICAL AND MINIMUM EDGE DISTANCE AND SPACING, AND LONG TERM CREEP.
6. ANCHORING TO HOLLOW CONCRETE MASONRY: TYPE AND SIZE AS INDICATED.
A. ADHESIVE ANCHORS:
a. ANCHORS CONSISTING OF AN INSERT AND CARTRIDGE TYPE, TWO COMPONENT, EPOXY OR HYBRID ADHESIVE DISPENSED AND MIXED THROUGH A STATIC MIXING NOZZLE PROVIDED BY THE ADHESIVE MANUFACTURER.
b. PROVIDE A MESH SCREEN TUBE WHEN ANCHORING TO HOLLOW CONCRETE MASONRY.
c. ADHESIVE MUST HAVE BEEN TESTED AND PREQUALIFIED IN ACCORDANCE WITH ICC-ES AC58, INCLUDING FREEZE-THAW CONDITIONS, CRITICAL AND MINIMUM EDGE DISTANCE AND SPACING, AND LONG TERM CREEP.
7. IDENTIFY POSITION OF REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO DRILLING HOLES FOR ANCHORS. EXERCISE CARE IN DRILLING TO AVOID DAMAGING EXISTING REINFORCING OR EMBEDDED ITEMS. STOP DRILLING AND NOTIFY THE COR IF REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED DURING DRILLING.
8. INSTALL ANCHORS IN DRY HOLES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. EMBED ANCHORS INTO THE SUBSTRATE AS INDICATED IN THE POST-INSTALLED ANCHOR SCHEDULE UON.

DEFERRED SUBMITTALS
1. STRUCTURAL STEEL CONNECTIONS

STRUCTURAL TESTS AND INSPECTIONS
1. STRUCTURAL TESTS AND INSPECTIONS SHALL COMPLY WITH THE REQUIREMENTS OF UFC 3-301-01, IBC 2018, CHAPTER 17, AND PROJECT SPECIFICATIONS.

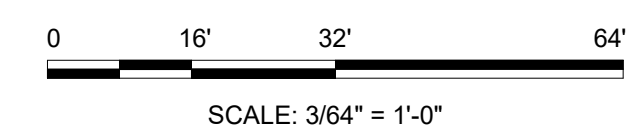


US Army Corps
of Engineers ®

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1. LIVE LOADS TO SLABS-ON-GRADE ARE NOT SHOWN.

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JACOBS / EWING COLE	<i>A Joint Venture</i>		SIZE:	FILE NAME:
	ANSI:	D:	FILE NUMBER:	01 MARCH 2023
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LOAD PLANS

S-010



1" = 20'-0"



B



1" = 20'-0"

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C

- 2.



PARAPETS



FILE

ISSUE DATE:
01 MARCH 2023

US ARMY CORPS OF ENGINEERS

JACOBS / EWING
COLE

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SNOW AND WIND LOADING PLANS

SHEET ID

S-011

5



SD101

REVISÉD RTA SUBMISSION 3/1/2023

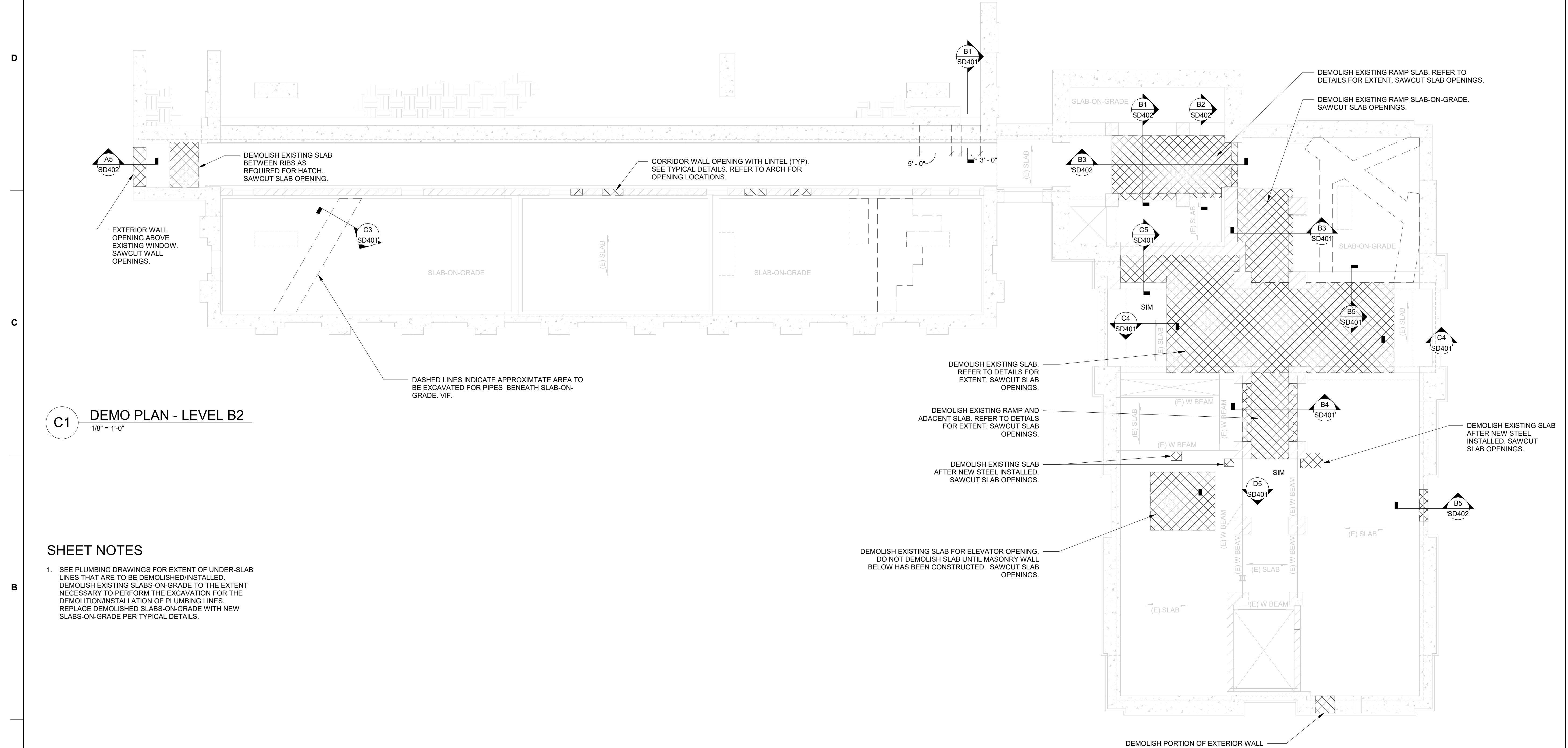
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DESIGNED BY: B. BAUMSTARK	ISSUE DATE: 01 MARCH 2023
DRAWN BY: J. GALLAGHER	SOLICITATION NO.: W912DS-19-R-0014
CHECKED BY: K. LEIBOWITZ	CONTRACT NO.: W912DS-19-C-0031-L
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**JACOBS / EWING
COLE** A Joint Venture

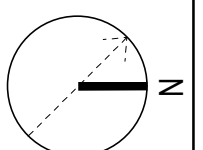
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

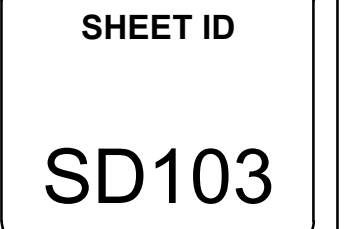
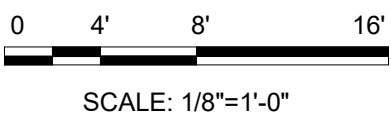
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0 4' 8' 16'

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





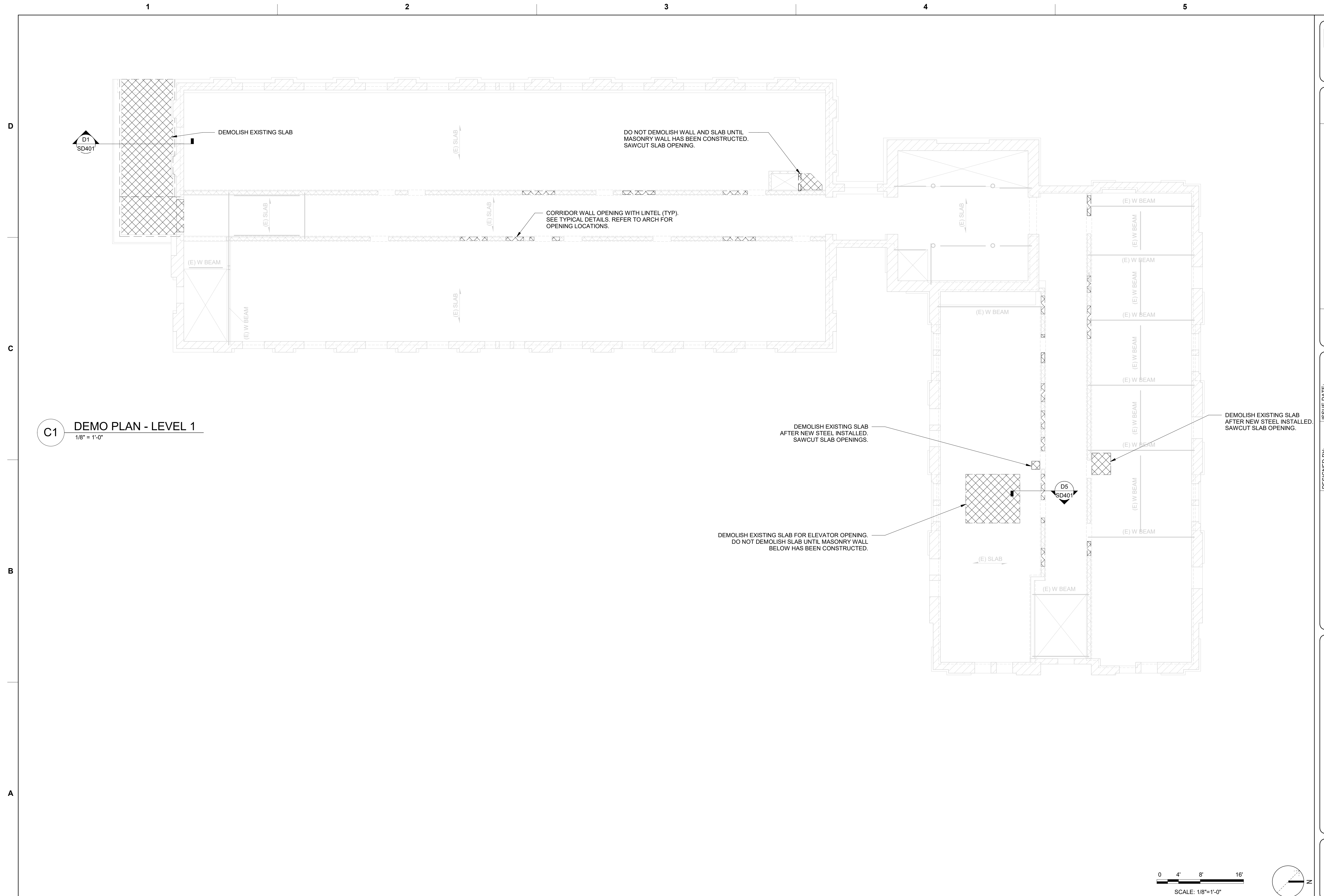
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			CHECKED BY: J. GALLAGHER	CONTRACT NO. W912DS-19-R-0033-L	
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		SIZE ANSI "D"	FILE NAME:		

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SHEET ID

SD104



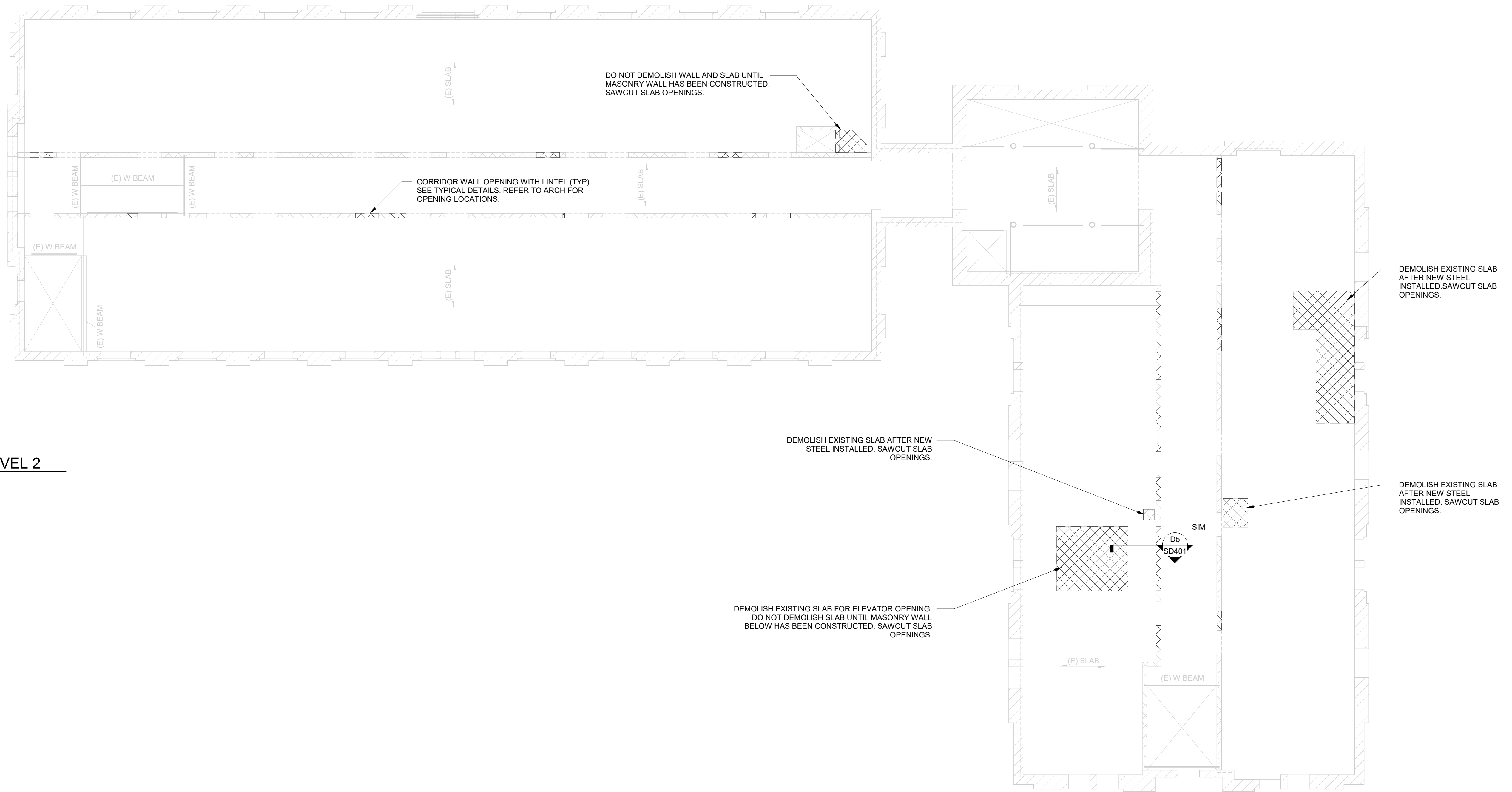
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B. J. MARKSTARK		SUBMITTED BY:	FILE NUMBER:
DRAWN BY: J. GALLAGHER		CHECKED BY:	SOLICITATION NO.: W912DS-19-R-0014
DATE: 01/23/2023		DATE: 01/23/2023	CONTRACT NO.: W912DS-19-R-0014

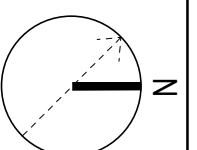
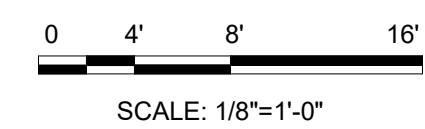
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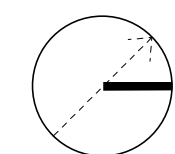
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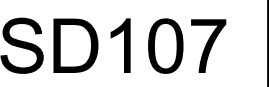
C1 DEMO PLAN - LEVEL 2
1/8" = 1'-0"



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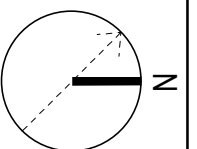
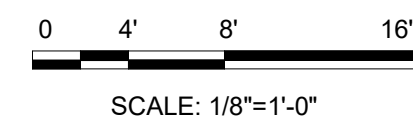
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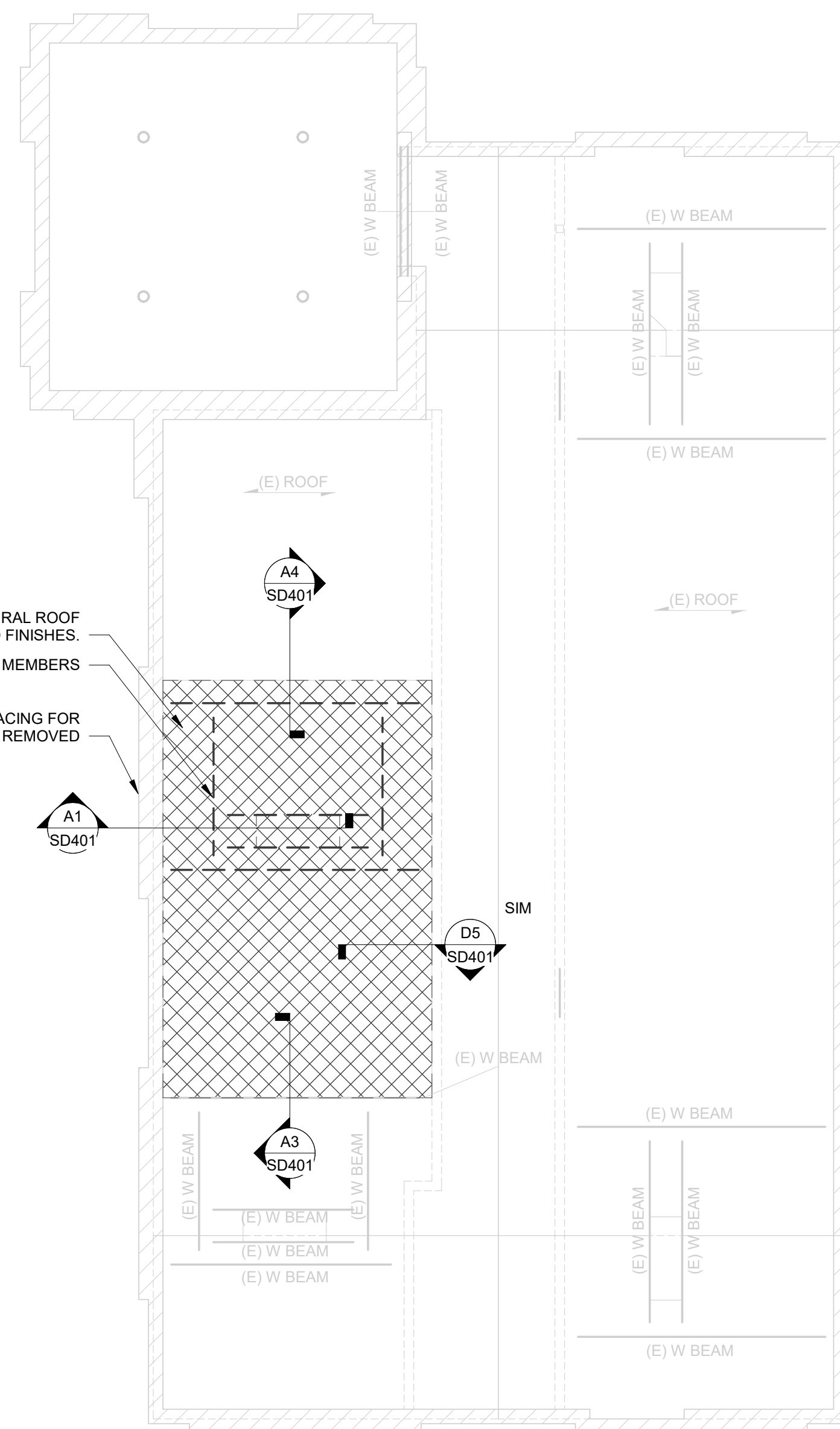


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C1 DEMO PLAN - LEVEL 4/ROOF OF SOUTH WING
1/8" = 1'-0"



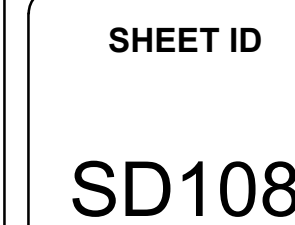
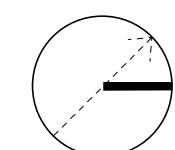
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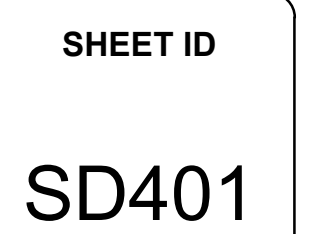
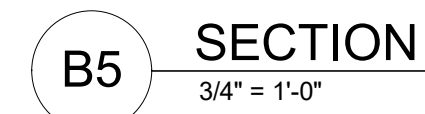
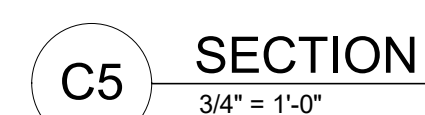
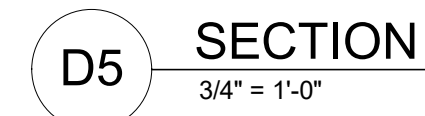
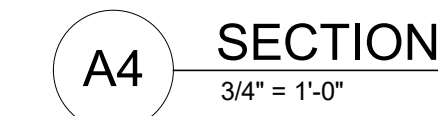
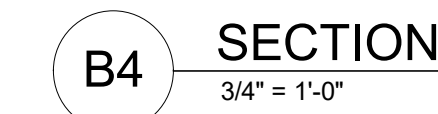
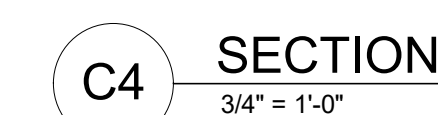
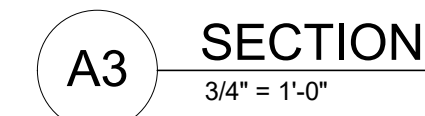
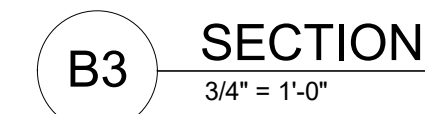
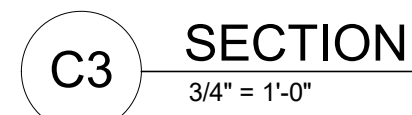
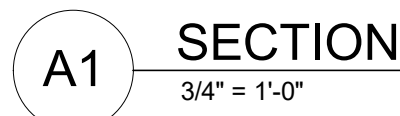
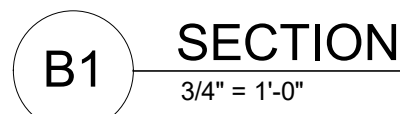
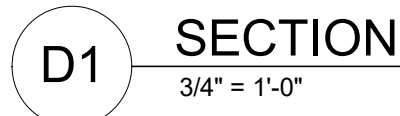


DEMOLISH EXISTING STRUCTURAL ROOF
SLAB AND FINISHES.

DEMOLISH EXISTING STEEL MEMBERS

PROVIDE TEMPORARY BRACING FOR
EXTERIOR WALL WHILE ROOF IS REMOVED

[illegible]



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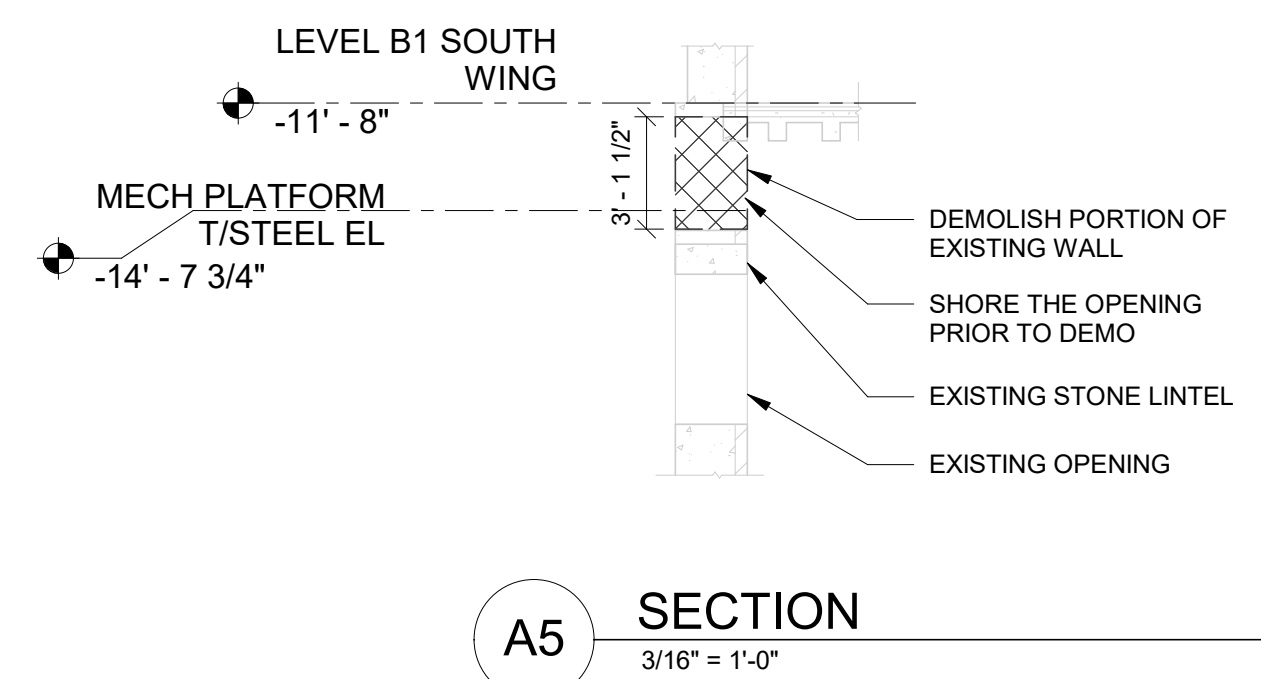
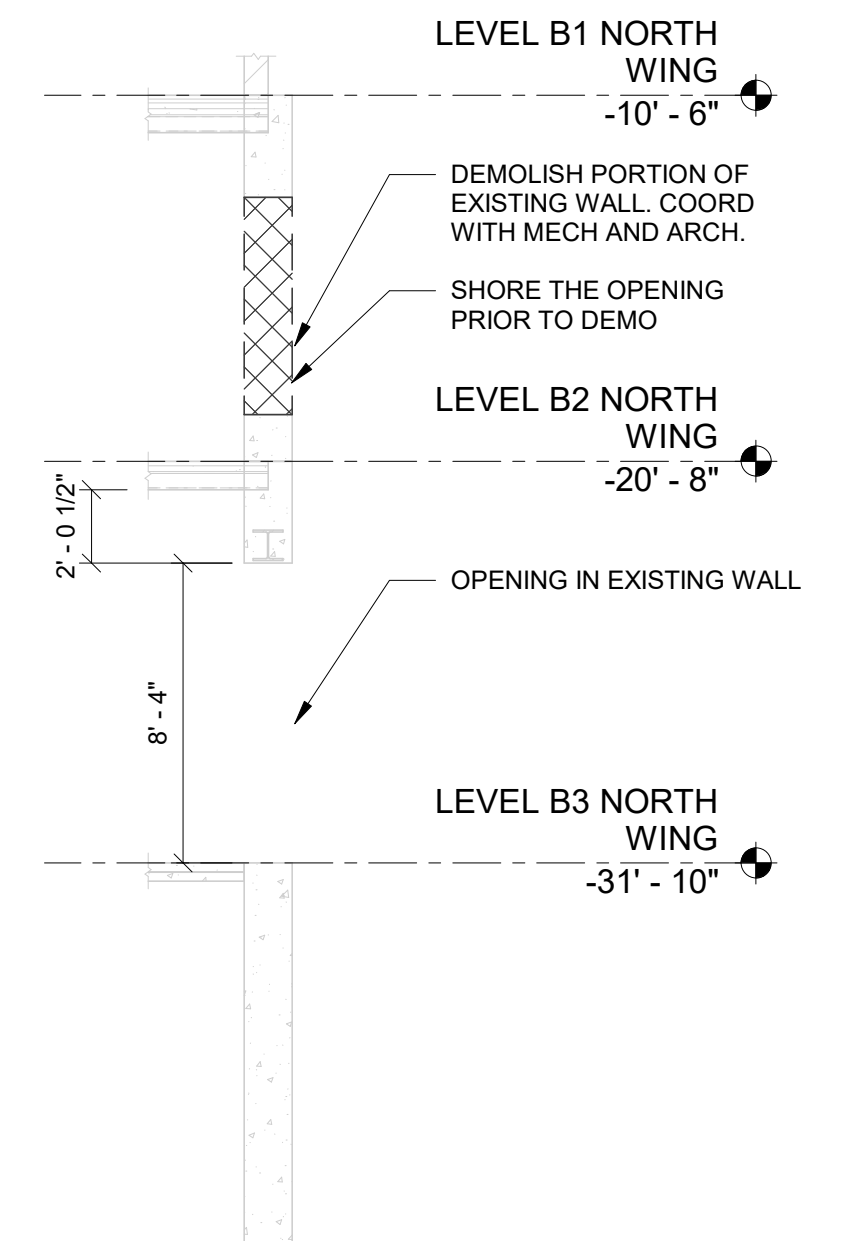
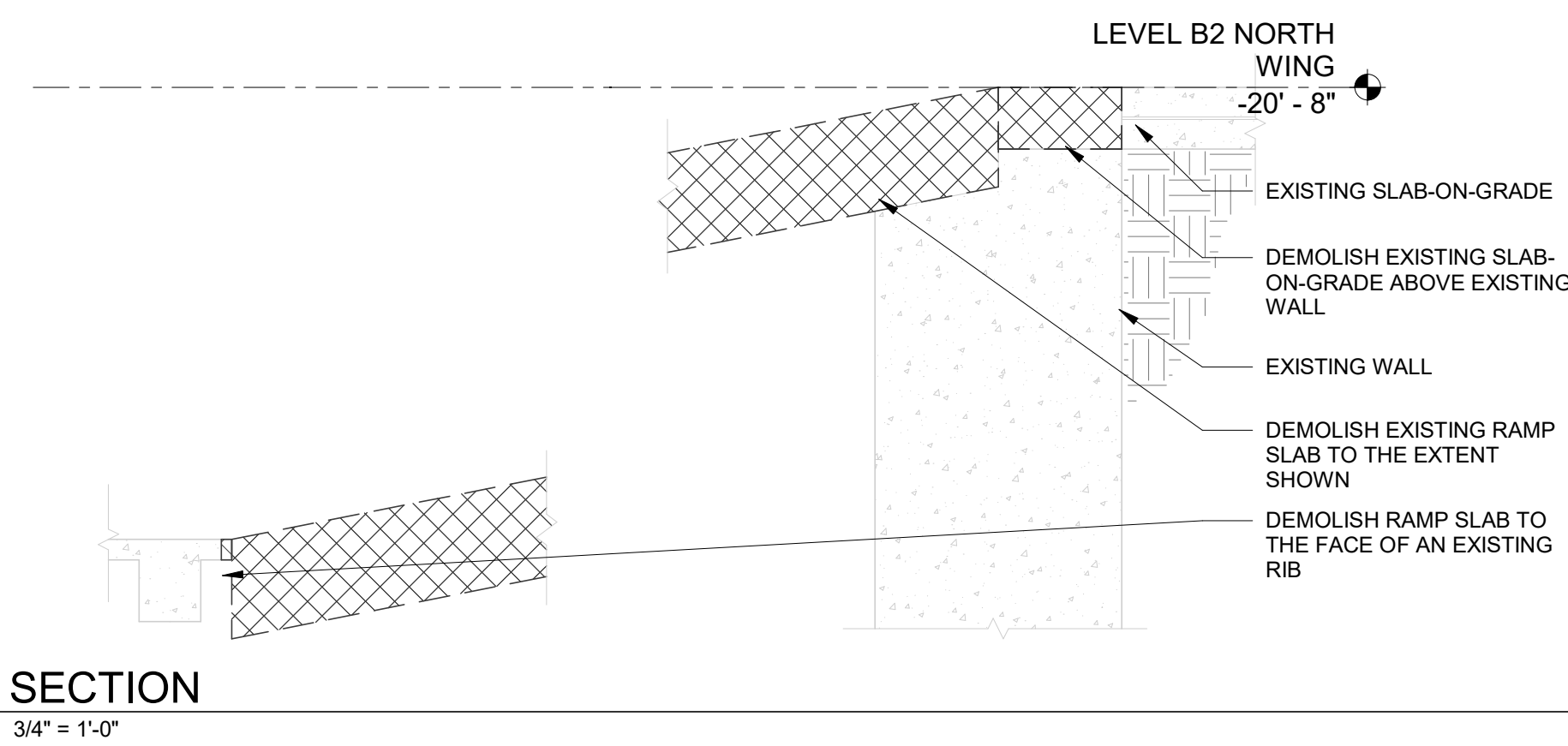
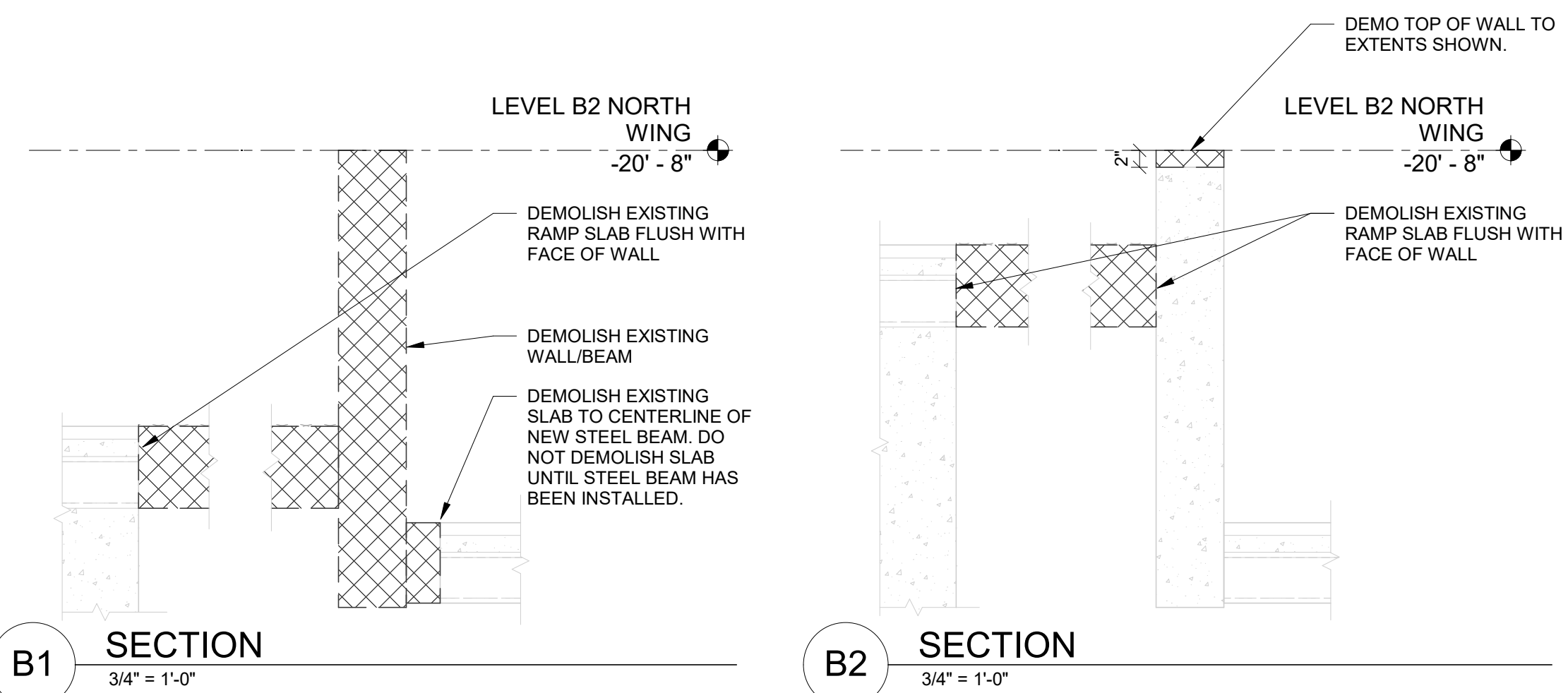
JACOBS / EWING COLE <i>A Joint Venture</i>	US ARMY CORPS OF ENGINEERS LINCOLN HALL WEST POINT, NEW YORK		DRAWN BY: B. BAUMSTARK	SOLICITATION NO.: W91293-19-R-0014
			CHECKED BY: J. GALLAGHER	CONTRACT NO.: W91293-19-R-0014
			SUBMITTED BY:	FILE NUMBER: W91293-19-R-0014-L
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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

CONCLUSIONS

SHEET ID

SD402



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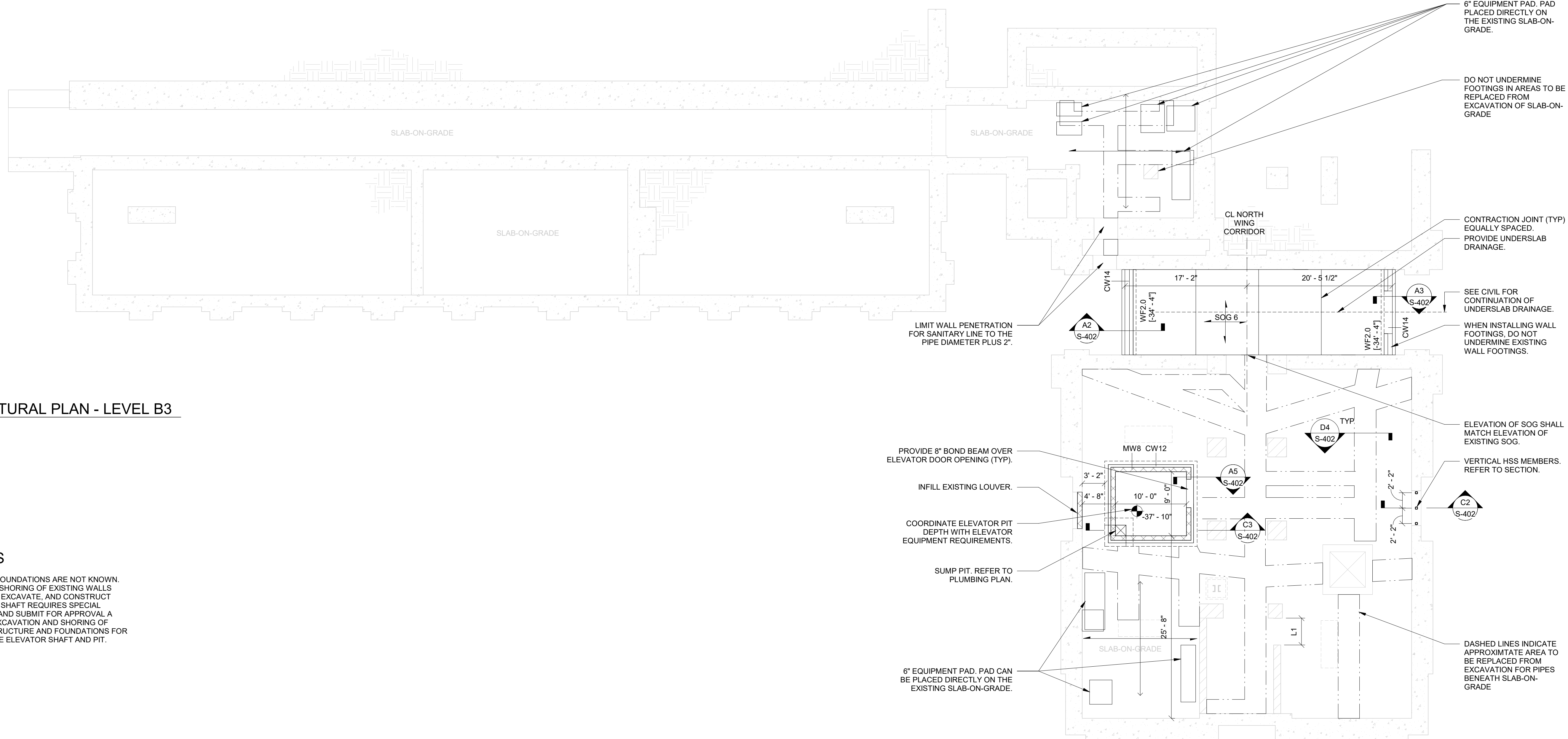
DESIGNED BY:	B. BAUMSTARK	ISSUE DATE:	01 MARCH 2023
DRAWN BY:	J. GALLAGHER	SOLICITATION NO.:	W912DS-19-R-0014
CHECKED BY:	K. LEIBOWITZ	CONTRACT NO.:	W912DS-19-C-0031-L
SUBMITTED BY:		FILE NUMBER:	
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JACOBS / **EWING
COLE** *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

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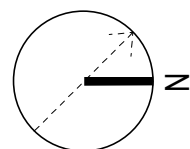
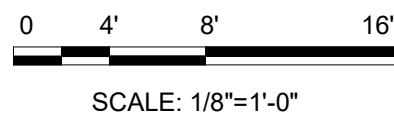


FOR

CONCRETE WALL SCHEDULE _____	B3 / S-501
STEEL DECKING SCHEDULE SEE _____	A2 / S-504
CONCRETE SLAB-ON-GRADE SCHEDULE _____	B3 / S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1 / S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3 / S-501
STEEL LINTEL SCHEDULE _____	B2 / S-504
MASONRY WALL SCHEDULE _____	C3 / S-501
BEAM CONNECTION PLATE _____	B1 / S-505

SEE

CONCRETE WALL SCHEDULE _____	B3 / S-501
STEEL DECKING SCHEDULE SEE _____	A2 / S-504
CONCRETE SLAB-ON-GRADE SCHEDULE _____	B3 / S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1 / S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3 / S-501
STEEL LINTEL SCHEDULE _____	B2 / S-504
MASONRY WALL SCHEDULE _____	C3 / S-501
BEAM CONNECTION PLATE _____	B1 / S-505



[illegible]

DESIGNED BY: B. BAUMSTARK	ISSUE DATE: 01 MARCH 2023
DRAWN BY: J. GALLAGHER	SOLICITATION NO.: W912DS-19-R-0014
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SUBMITTED BY:	FILE NUMBER:
SIZE: ANSI 'D'	FILE NAME:

JACOBS / EWING
COLE

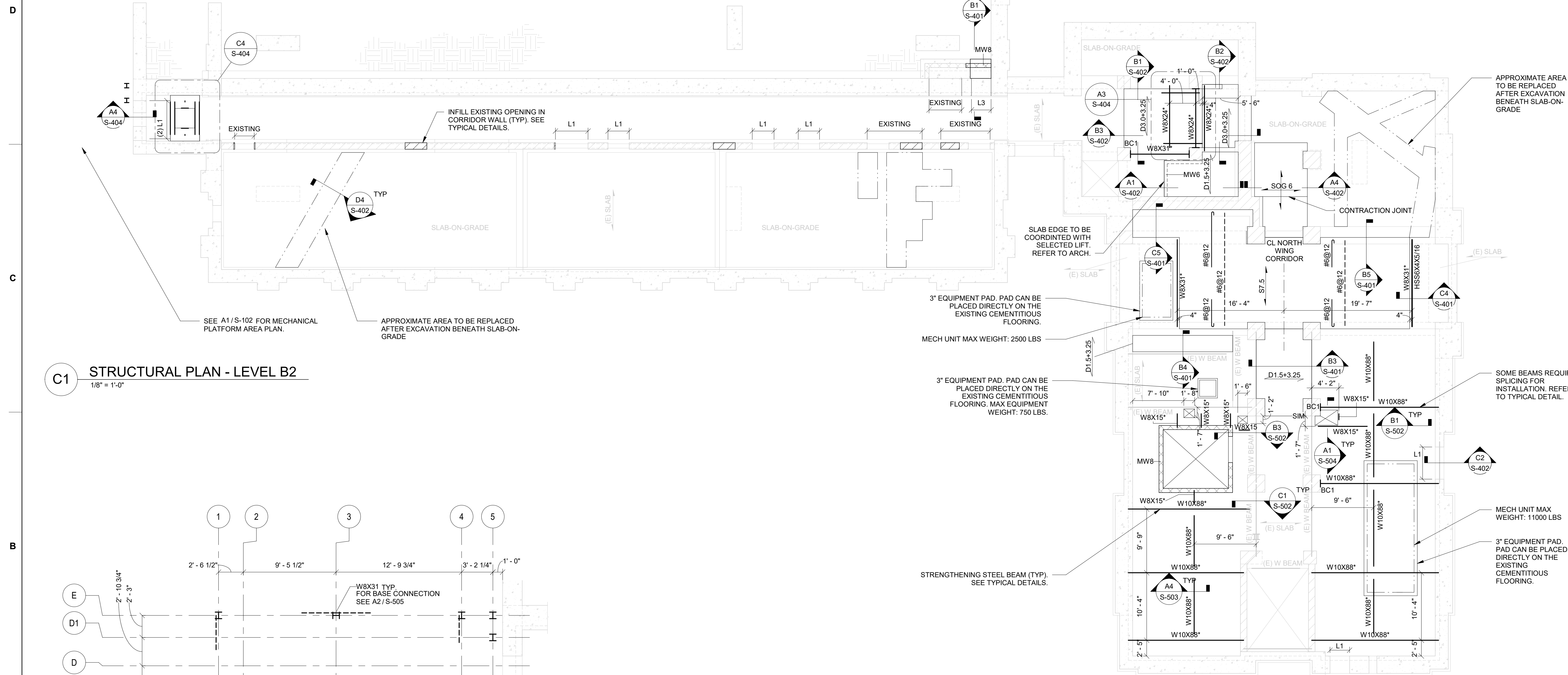
A Joint Venture

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

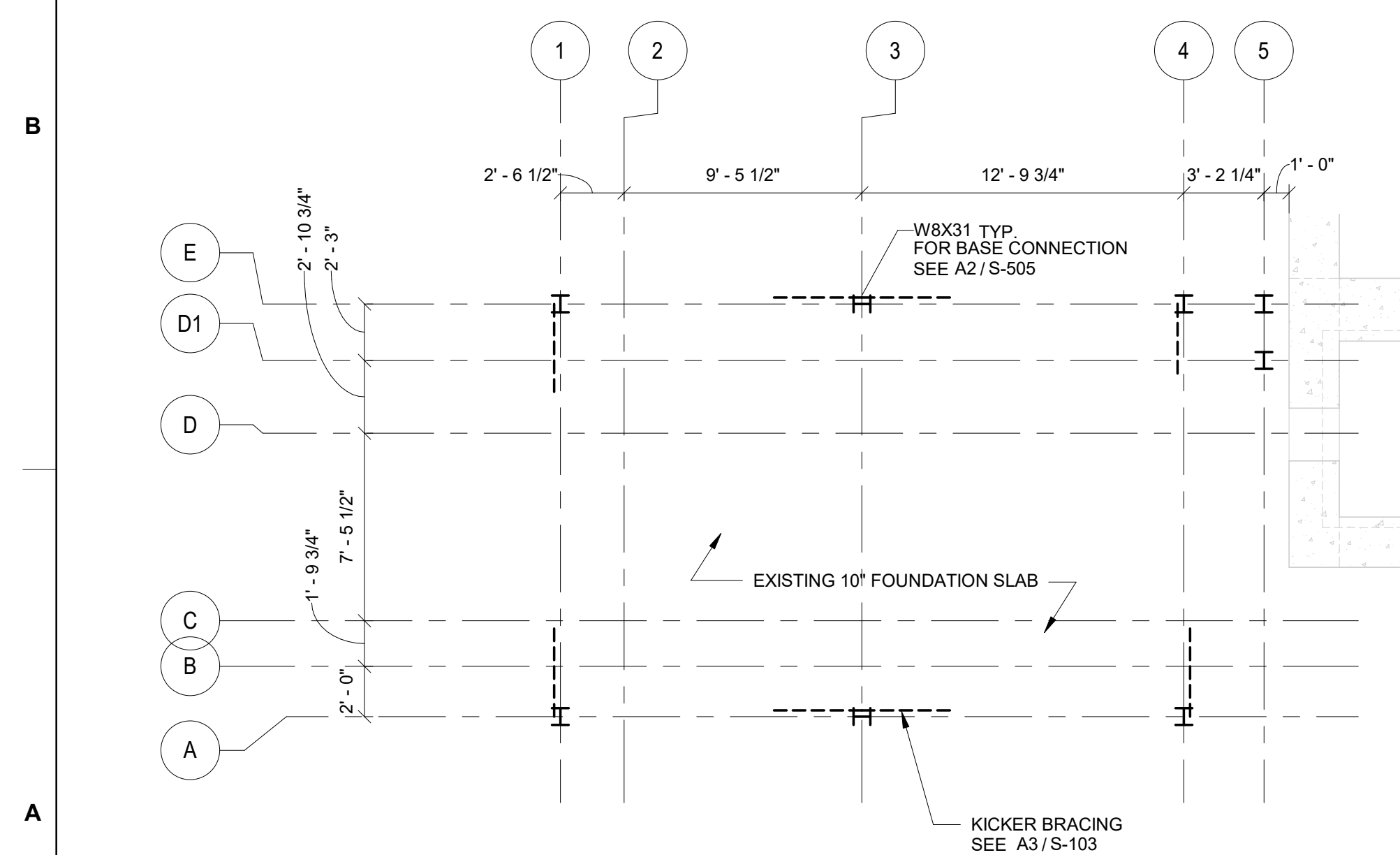
LEVEL B2 FLOOR PLAN

SHEET ID

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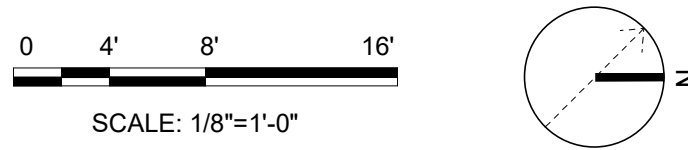


C1 STRUCTURAL PLAN - LEVEL B2
1/8" = 1'-0"



A1 MECHANICAL PLATFORM - FOUNDATION PLAN
3/16" = 1'-0"

<u>FOR</u>	<u>SEE</u>
CONCRETE WALL SCHEDULE _____	B3 / S-501
STEEL DECKING SCHEDULE SEE _____	A2 / S-504
CONCRETE SLAB-ON-GRADE SCHEDULE _____	D3 / S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1 / S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3 / S-501
STEEL LINTEL SCHEDULE _____	B2 / S-504
MASONRY WALL SCHEDULE _____	C3 / S-501
BEAM CONNECTION PLATE _____	B1 / S-505



[illegible]

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING

COLE

A Joint Venture

ANSI "D" FILE NAME:

SIZE

SUBMITTED BY:

FILE NUMBER:

CONTRACT NO.:

CHECKED BY:

W912DS-19-R-0014

DATE:

01 MARCH 2023

DRAWN BY:

B. BAUMSTARK

PROJECT NO.:

W912DS-19-R-0014

CONTRACT NO.:

W912DS-19-R-0014

DATE:

01 MARCH 2023

FILE NAME:

SIZE

SUBMITTED BY:

FILE NUMBER:

CONTRACT NO.:

CHECKED BY:

W912DS-19-R-0014

DATE:

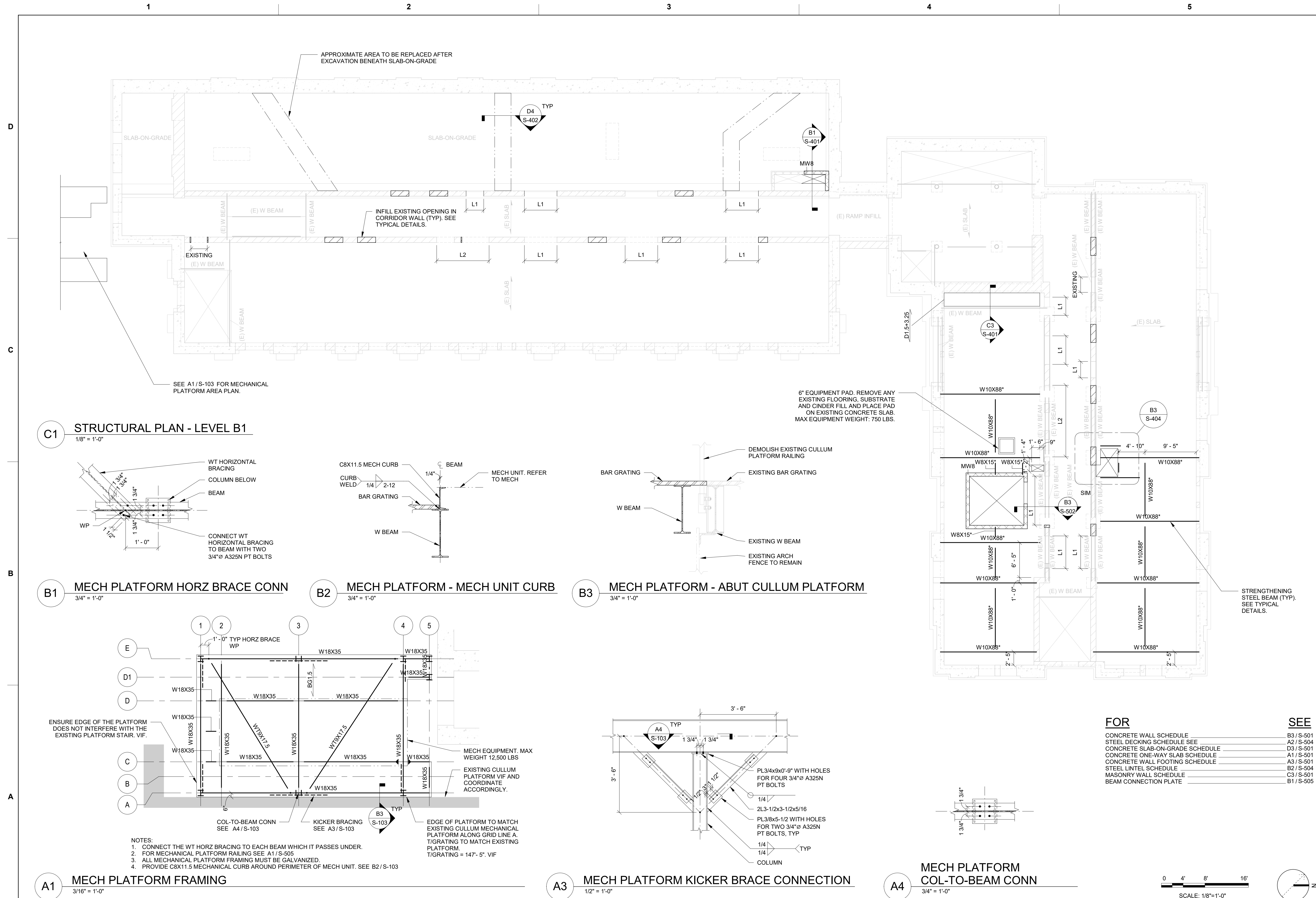
01 MARCH 2023

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 FLOOR PLAN

SHEET ID

S-103





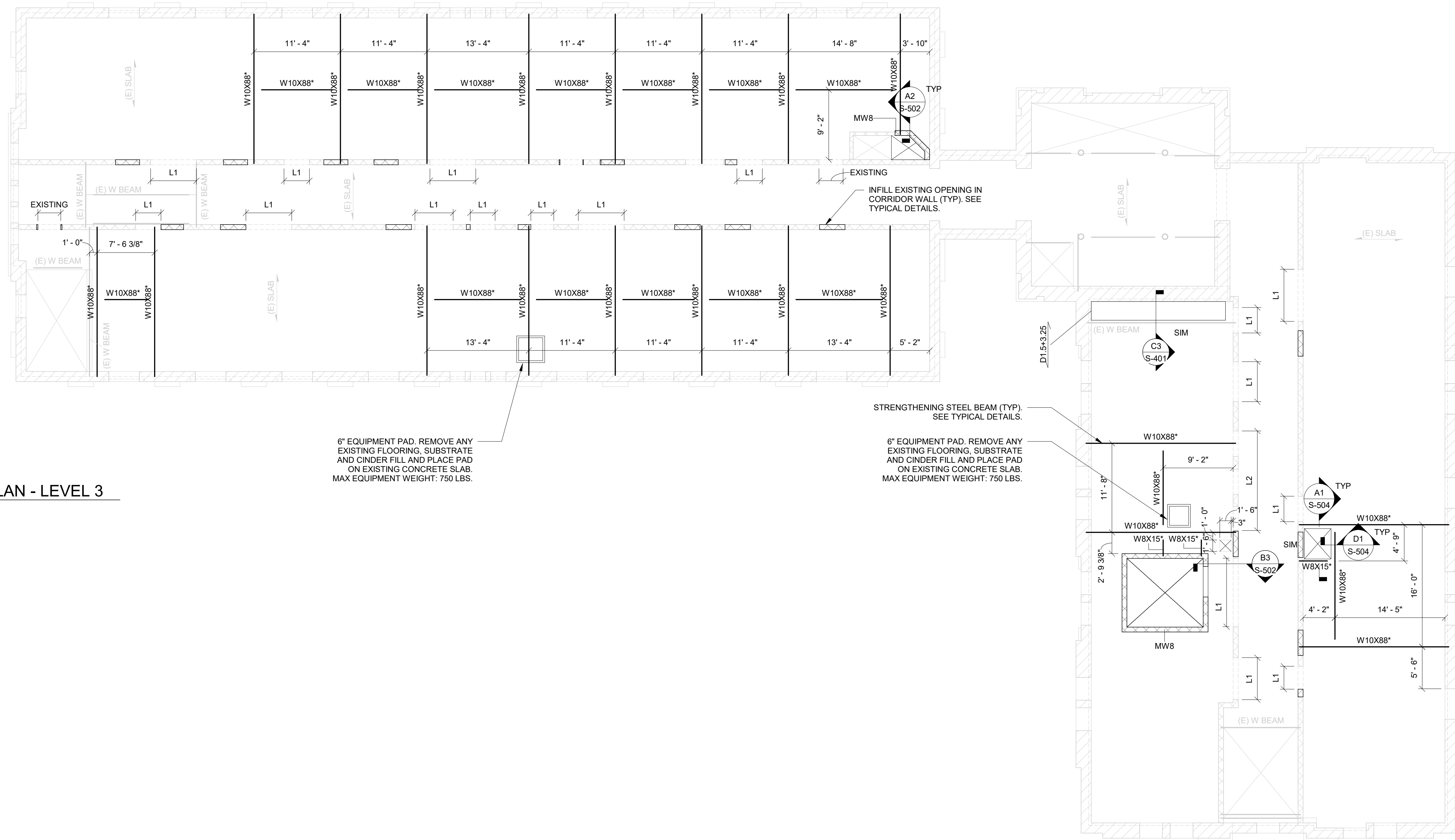
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JACOBS / EWING COLE A Joint Venture
 US ARMY CORPS OF ENGINEERS
 LINCOLN HALL
 WEST POINT, NEW YORK
 DRAWN BY: B. BAUMSTARK
 CHECKED BY: J. GALLAGHER
 CONTRACT NO.: W912DS-19-R-0014
 SUBMITTED BY: FILE NUMBER: W912DS-19-R-0031-L
 SIZE: FILE NAME:
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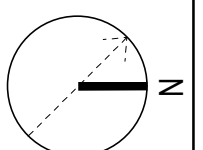
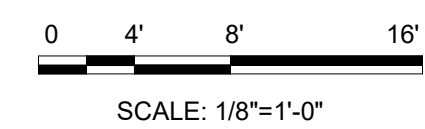
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SHEET ID

S-106



FOR	<u>SEE</u>
CONCRETE WALL SCHEDULE _____	B3/S-501
STEEL DECKING SCHEDULE SEE _____	A2/S-504
CONCRETE SLAB-ON-GRADE SCHEDULE _____	D3/S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1/S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3/S-501
STEEL LINTEL SCHEDULE _____	B2/S-504
MASONRY WALL SCHEDULE _____	C3/S-501
BEAM CONNECTION PLATE _____	B1/S-505



[illegible]

DESIGNED BY: B. BAUMSTARK	ISSUE DATE: 01 MARCH 2023
DRAWN BY: J. GALLAGHER	SOLICITATION NO.: W912DS-19-R-0014
CHECKED BY: K. LEIBOWITZ	CONTRACT NO.: W912DS-19-C-0031-L
SUBMITTED BY:	FILE NUMBER:
SIZE: ANSI 'D'	FILE NAME:

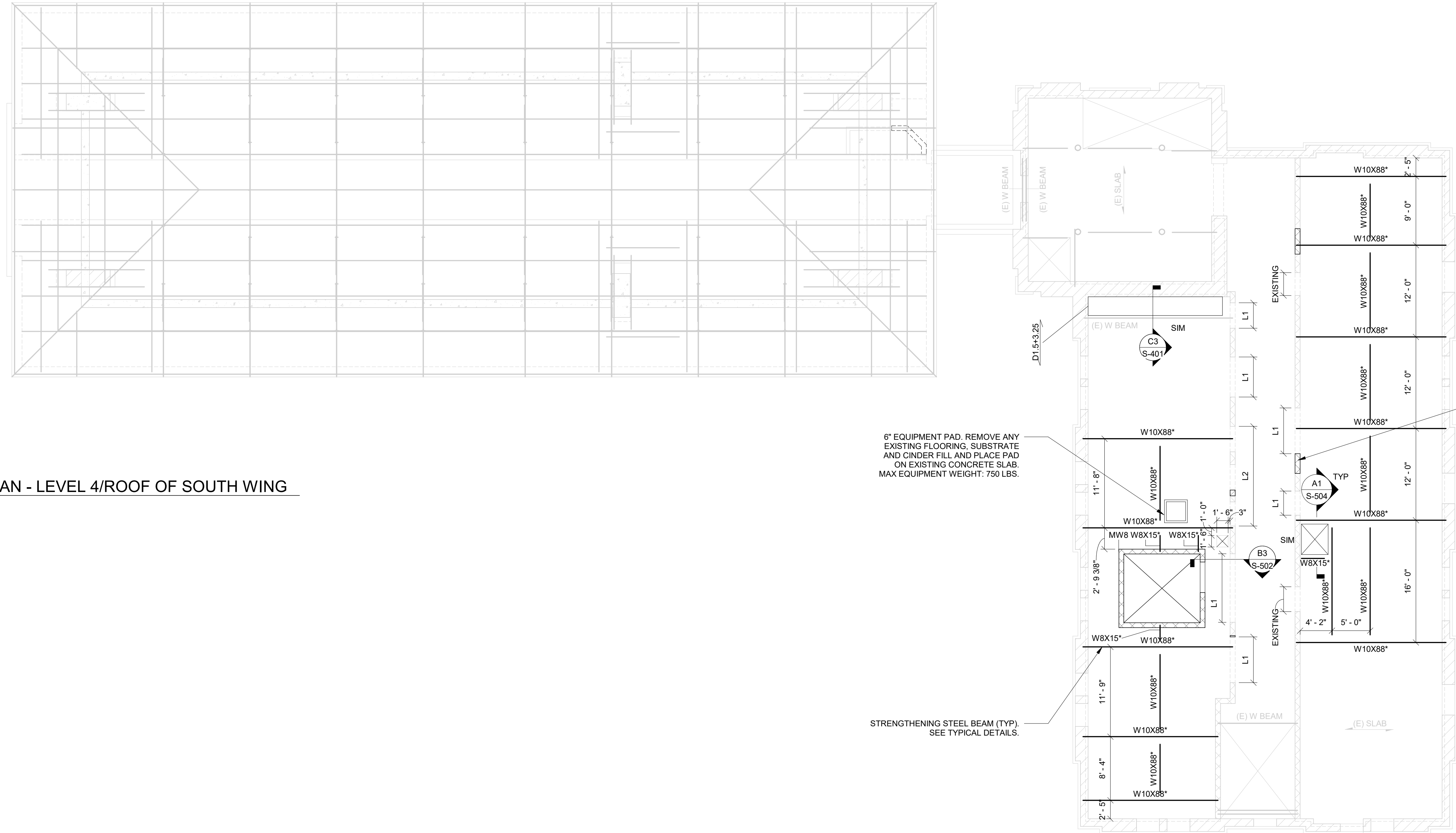
US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4/ROOF PLAN - SOUTH WING

SHEET ID

S-107



INFILL EXISTING OPENING IN
CORRIDOR WALL (TYP). SEE
TYPICAL DETAILS.

(C1

STRUCTURAL PLAN - LEVEL 4/ROOF OF SOUTH WING

1/8" = 1'-0"

6" EQUIPMENT PAD. REMOVE ANY EXISTING FLOORING, SUBSTRATE AND CINDER FILL AND PLACE PAD ON EXISTING CONCRETE SLAB. MAX EQUIPMENT WEIGHT: 750 LBS.

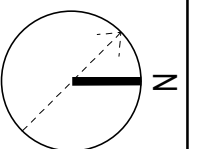
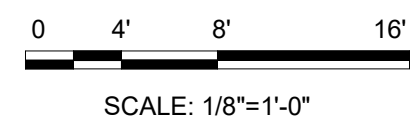
STRENGTHENING STEEL BEAM (TYP).
SEE TYPICAL DETAILS.

FOR

CONCRETE WALL SCHEDULE _____	B3/S-501
STEEL DECKING SCHEDULE SEE _____	A2/S-504
CONCRETE SLAB-ON-GRADE SCHEDULE _____	D3/S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1/S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3/S-501
STEEL LINTEL SCHEDULE _____	B2/S-504
MASONRY WALL SCHEDULE _____	C3/S-501
BEAM CONNECTION PLATE _____	B1/S-505

SEE

CONCRETE WALL SCHEDULE _____	B3/S-501
STEEL DECKING SCHEDULE SEE _____	A2/S-504
CONCRETE SLAB-ON-GRADE SCHEDULE _____	D3/S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1/S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3/S-501
STEEL LINTEL SCHEDULE _____	B2/S-504
MASONRY WALL SCHEDULE _____	C3/S-501
BEAM CONNECTION PLATE _____	B1/S-505



[illegible]

DESIGNED BY:	B. BAUMSTARK	ISSUE DATE:	01 MARCH 2023
DRAWN BY:	J. GALLAGHER	SOLICITATION NO.:	W912DS-19-R-0014
CHECKED BY:	K. LEIBOWITZ	CONTRACT NO.:	W912DS-19-C-0031-L
SUBMITTED BY:		FILE NUMBER:	
SIZE:	ANSI 'D'	FILE NAME:	

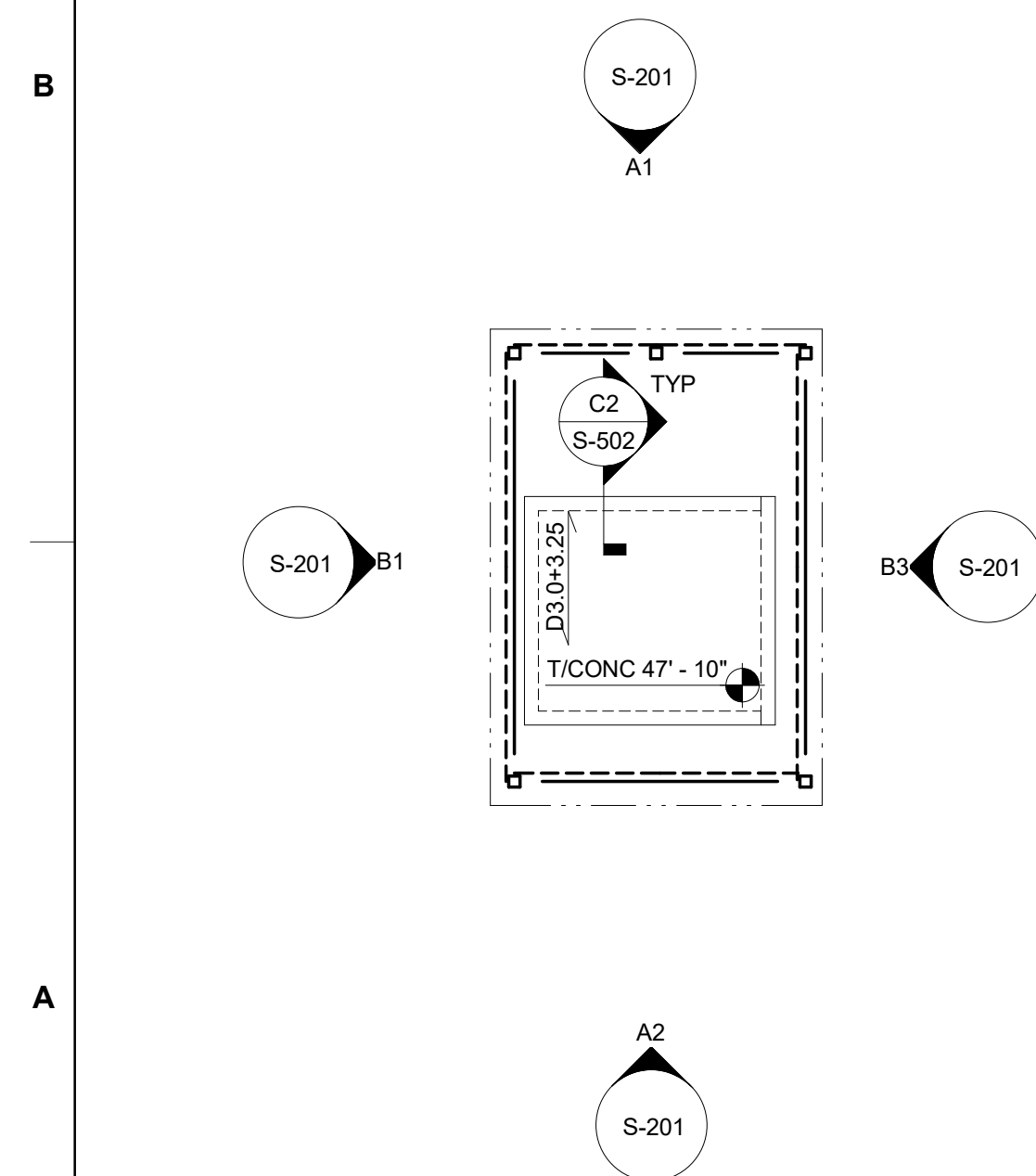
US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

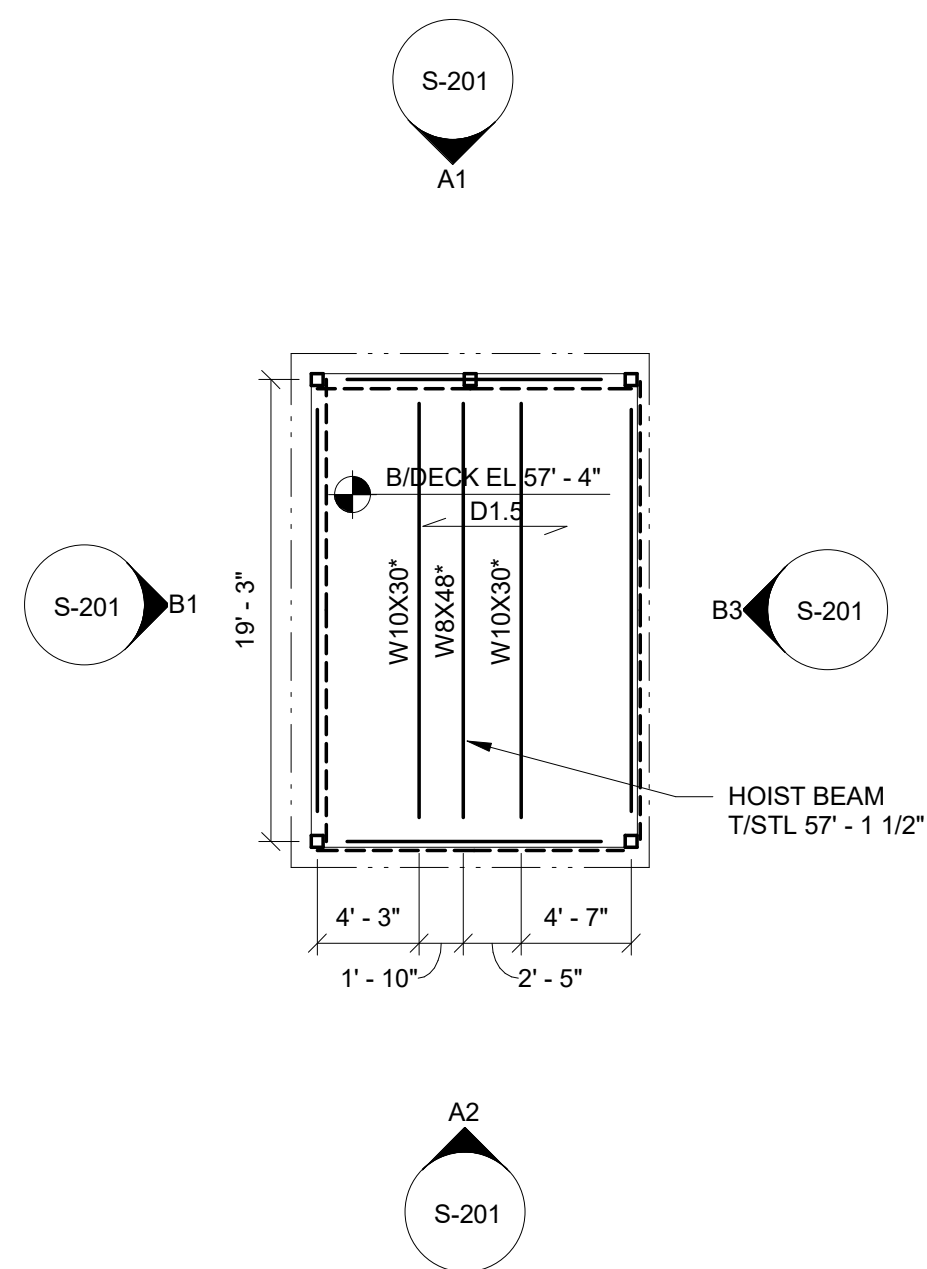
SHEET ID

S-108

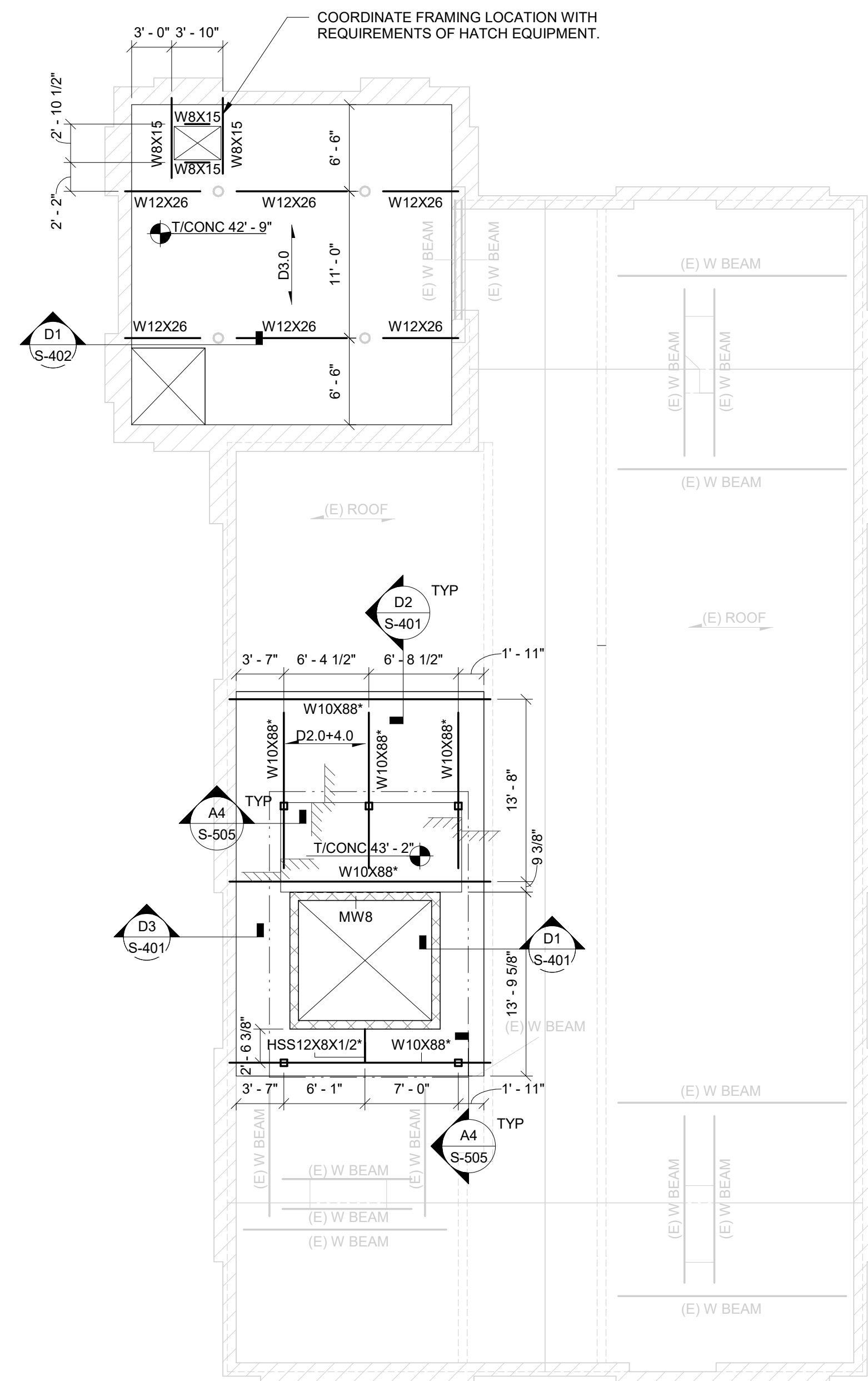
C1 STRUCTURAL PLAN - ROOF OF NORTH WING
1/8" = 1'-0"



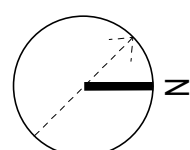
A1 STRUCTURAL PLAN - ELEVATOR MACHINE ROOM
1/8" = 1'-0"

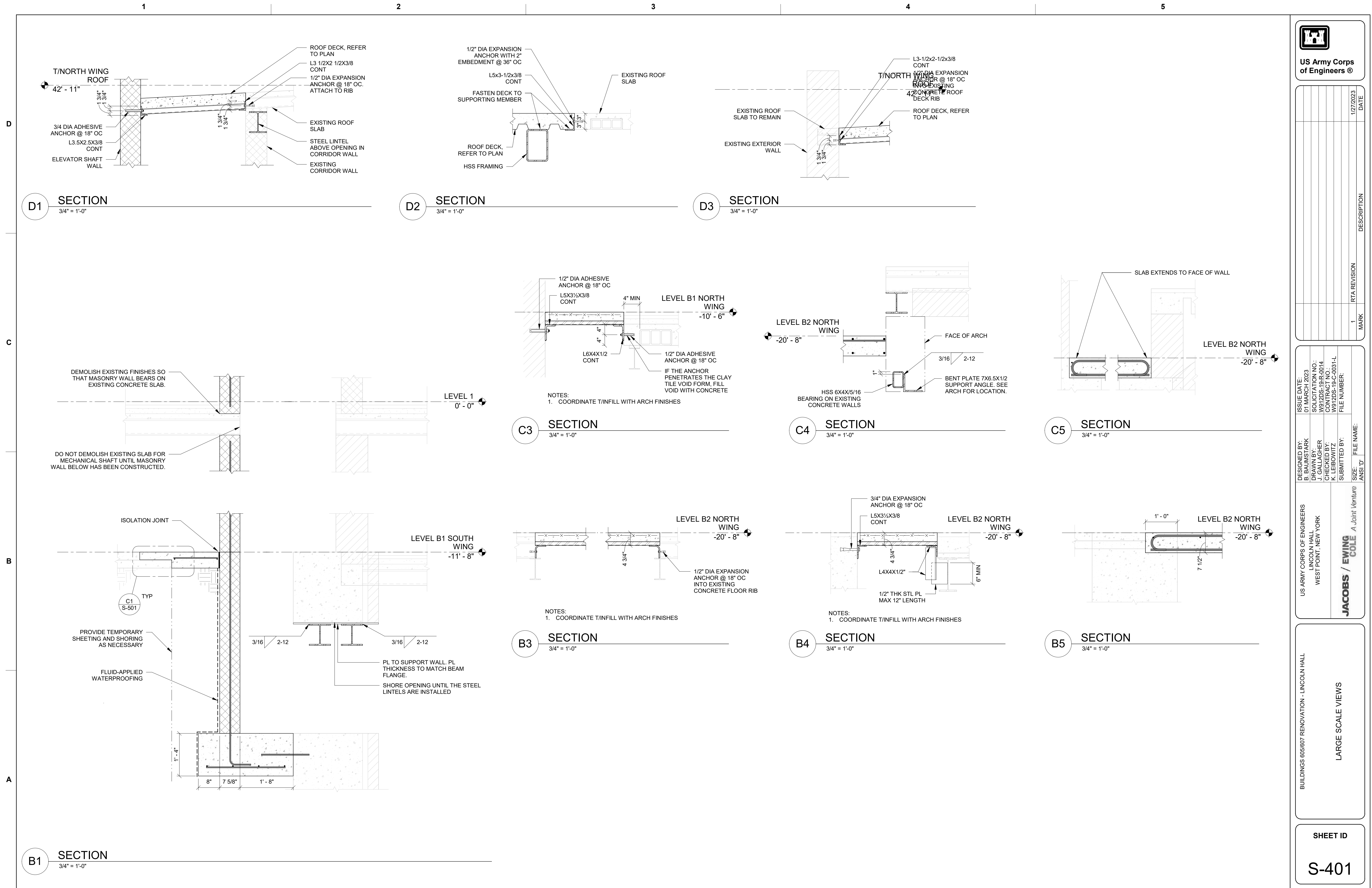



A2 STRUCTURAL PLAN - PENTHOUSE ROOF
1/8" = 1'-0"



FOR	SEE
CONCRETE WALL SCHEDULE _____	B3 / S-501
STEEL DECKING SCHEDULE SEE _____	A2 / S-504
CONCRETE SLAB-IN GRADE SCHEDULE _____	D3 / S-501
CONCRETE ONE-WAY SLAB SCHEDULE _____	A1 / S-501
CONCRETE WALL FOOTING SCHEDULE _____	A3 / S-501
STEEL LINTEL SCHEDULE _____	B2 / S-504
MASONRY WALL SCHEDULE _____	C3 / S-501
BEAM CONNECTION PLATE _____	B1 / S-505







US Army Corps of Engineers®

DATE	DESCRIPTION	MARK	RTA REVISION
1/27/2023		1	

DESIGNED BY:	ISSUE DATE:	FILE NAME:
B. BAUMSTARK	01 MARCH 2023	ANSI'D
DRAWN BY:	SOLICITATION NO.:	
K. LEIBOWITZ	W91ZDS-19-C-0014	
CHECKED BY:	W91ZDS-19-C-0031-L	
SUBMITTED BY:	FILE NUMBER:	

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

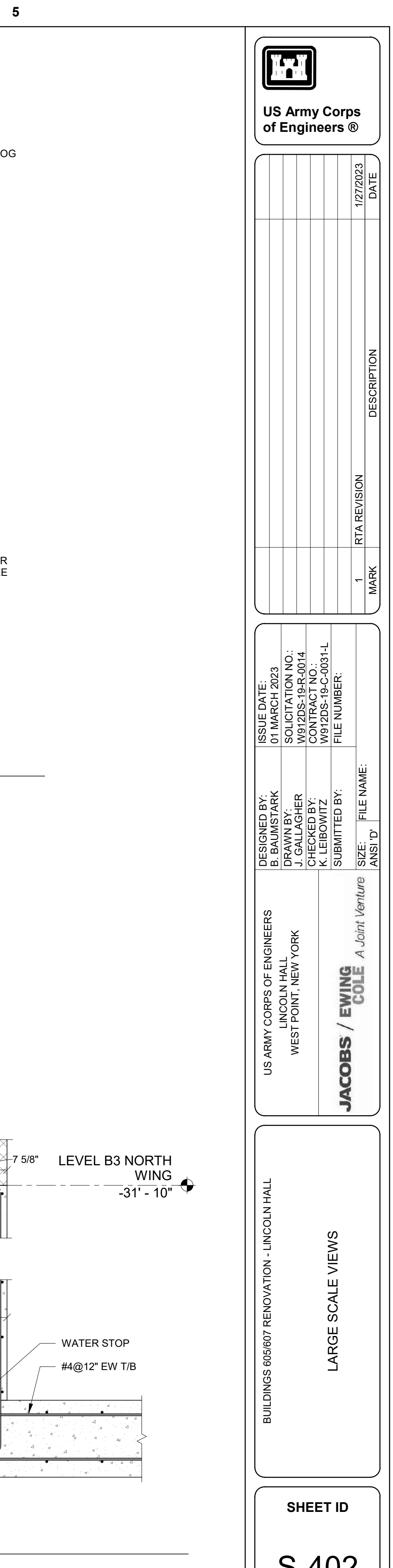
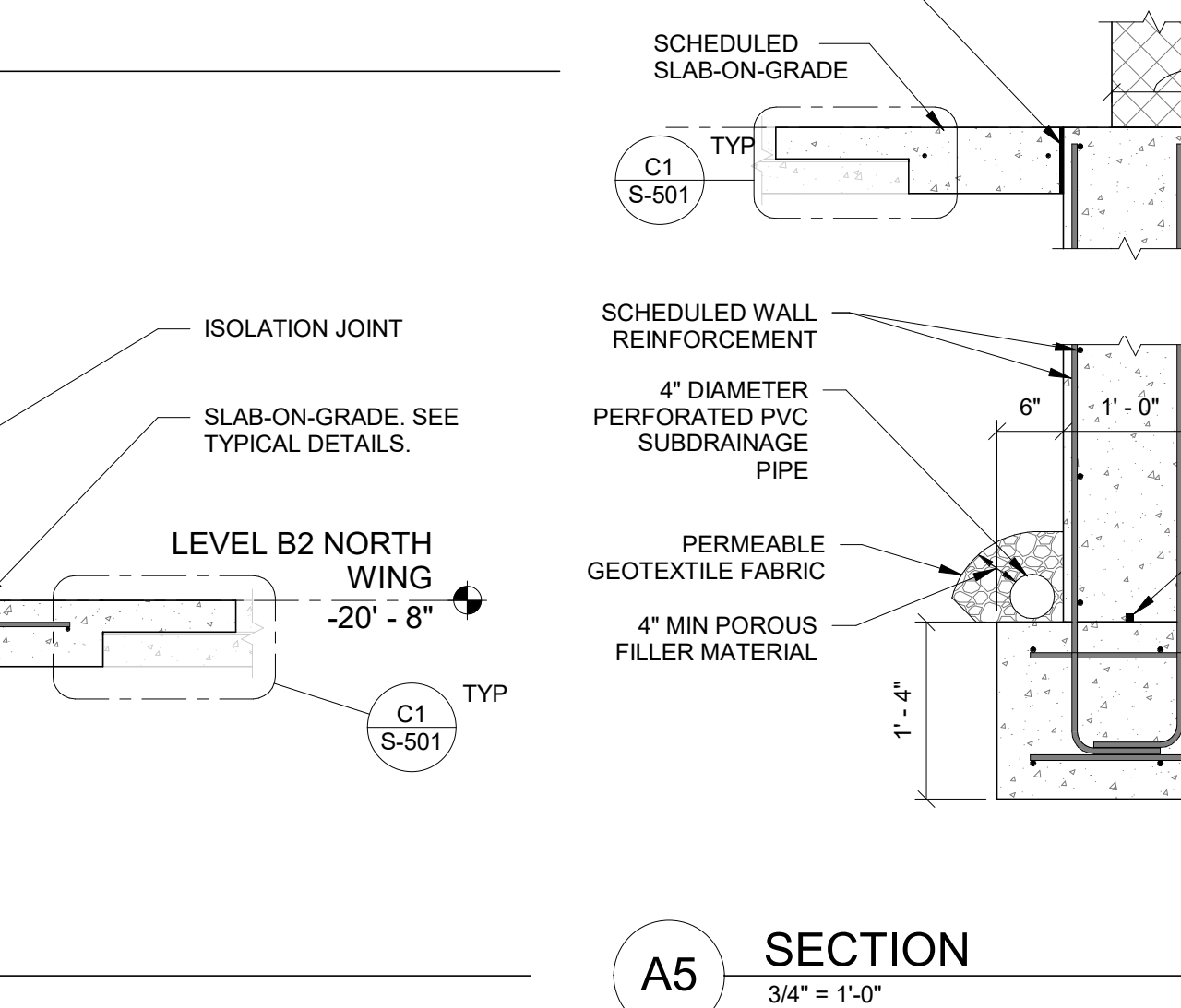
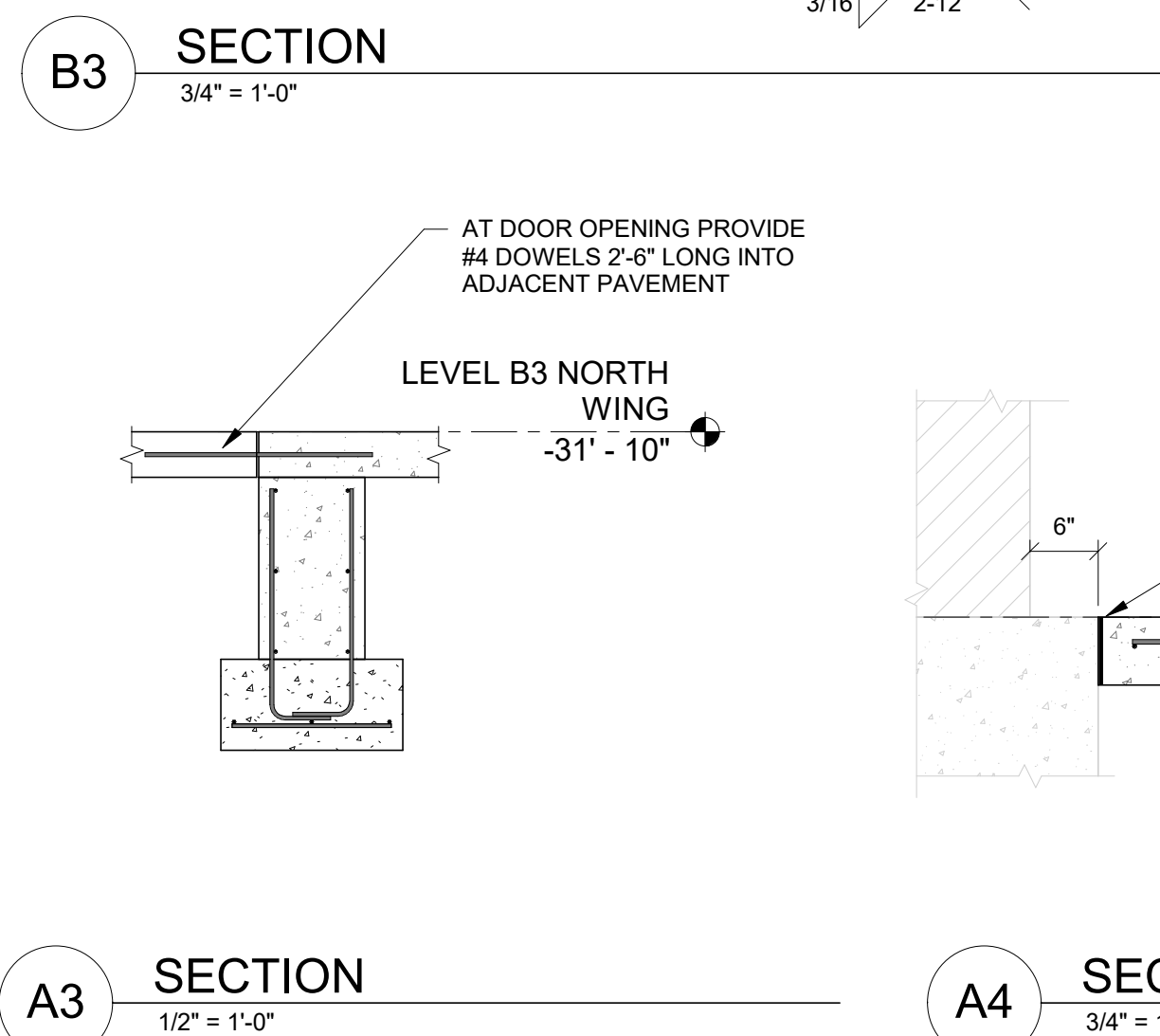
JACOBS / EWING COLE
A Joint Venture

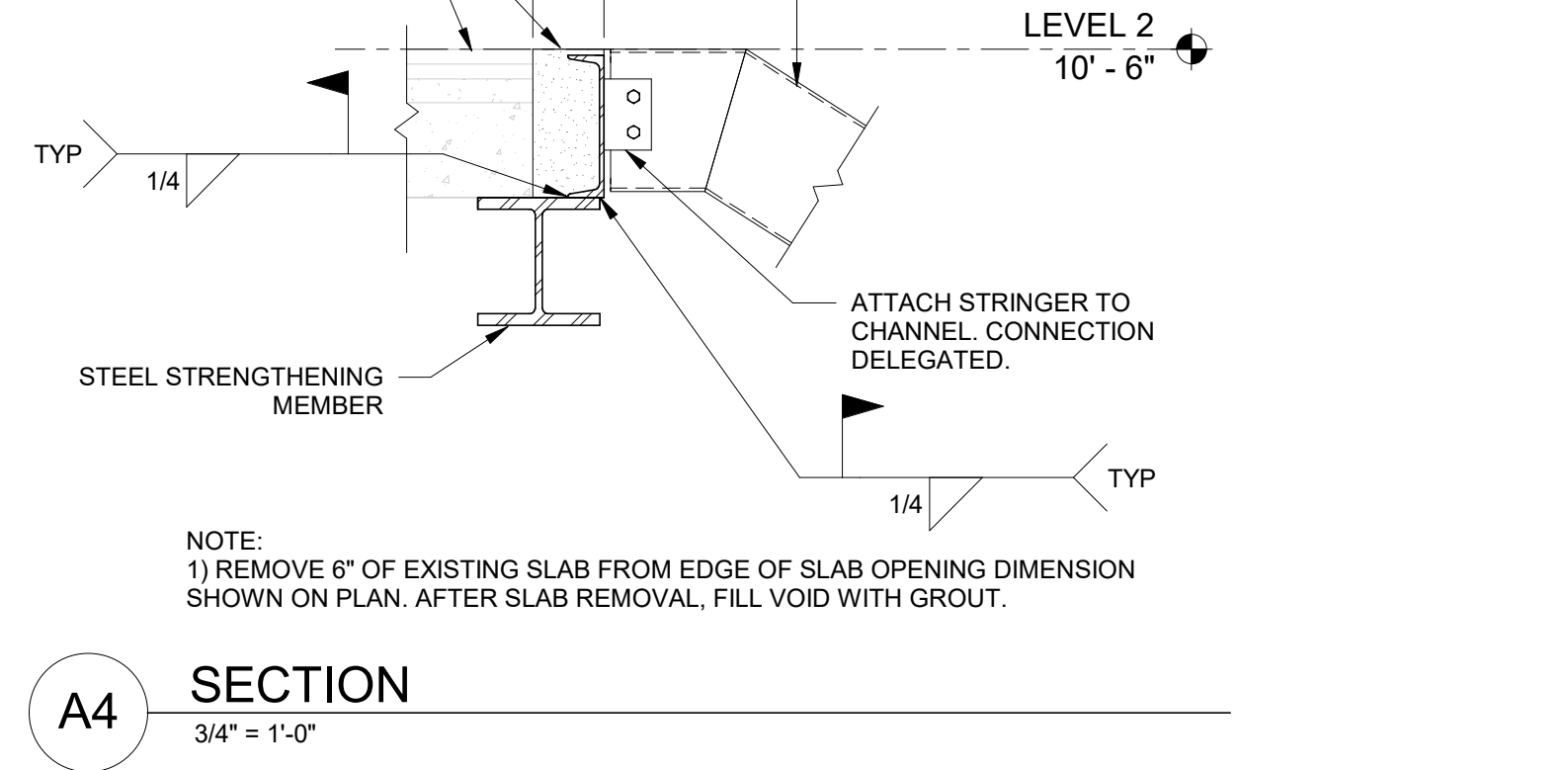
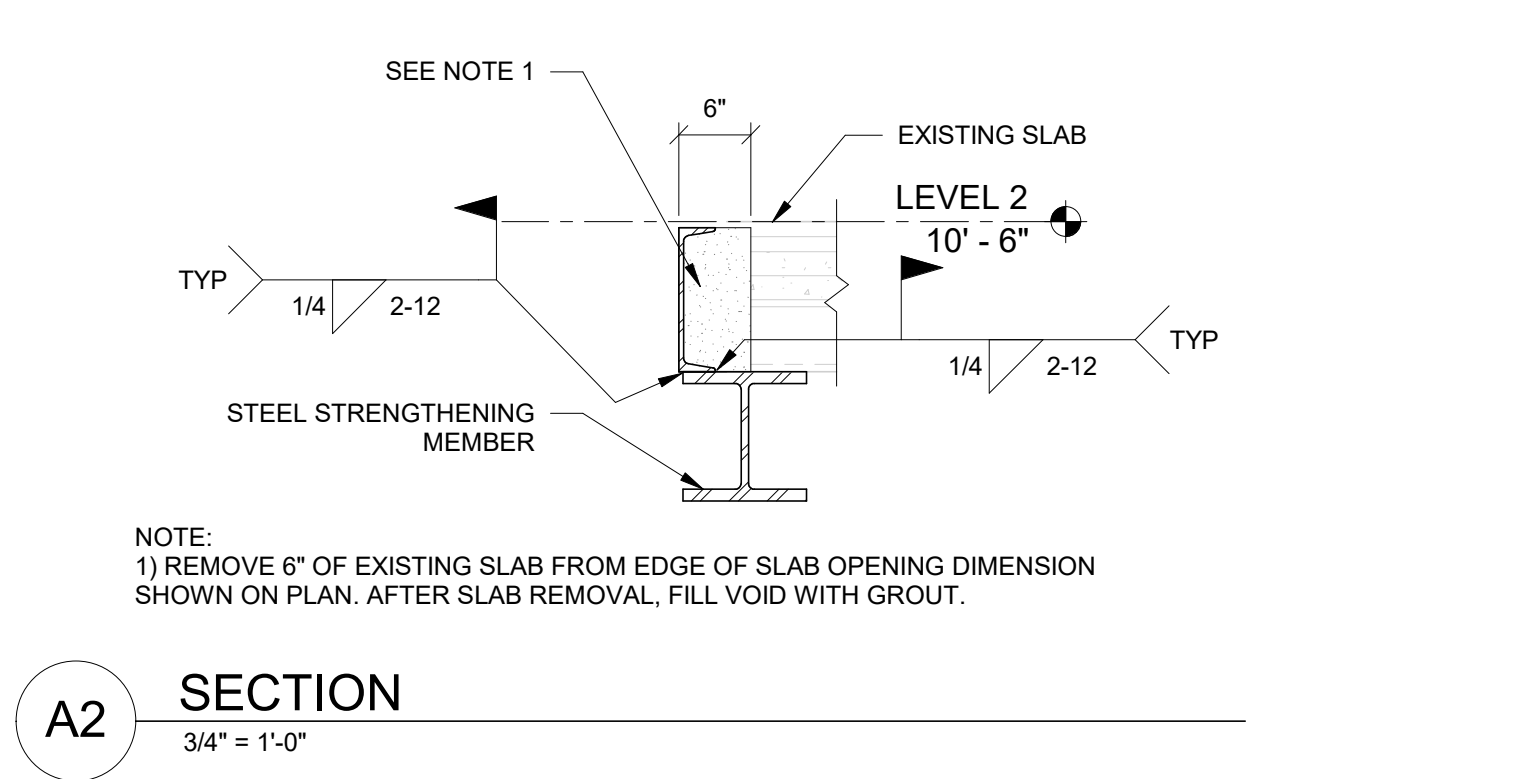
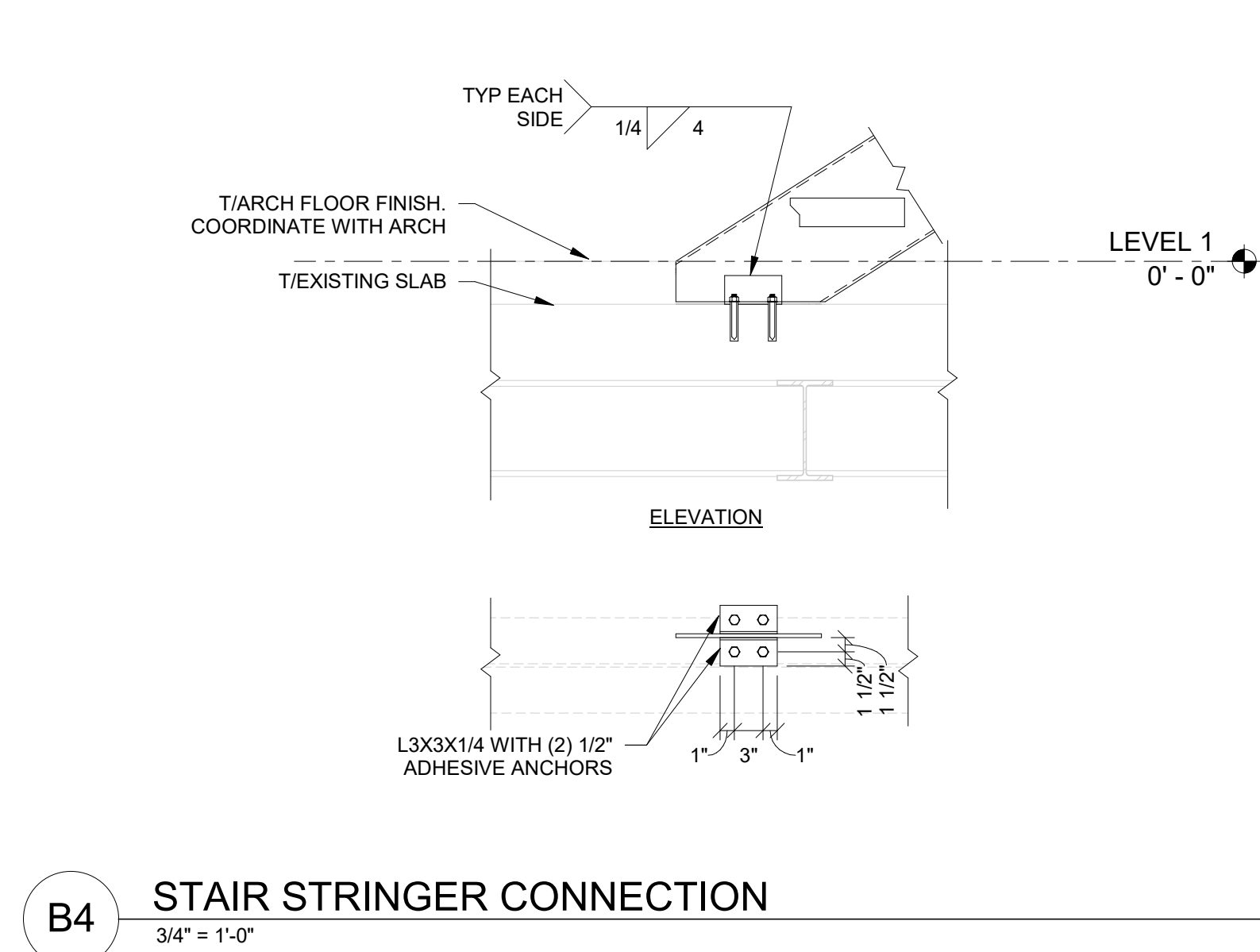
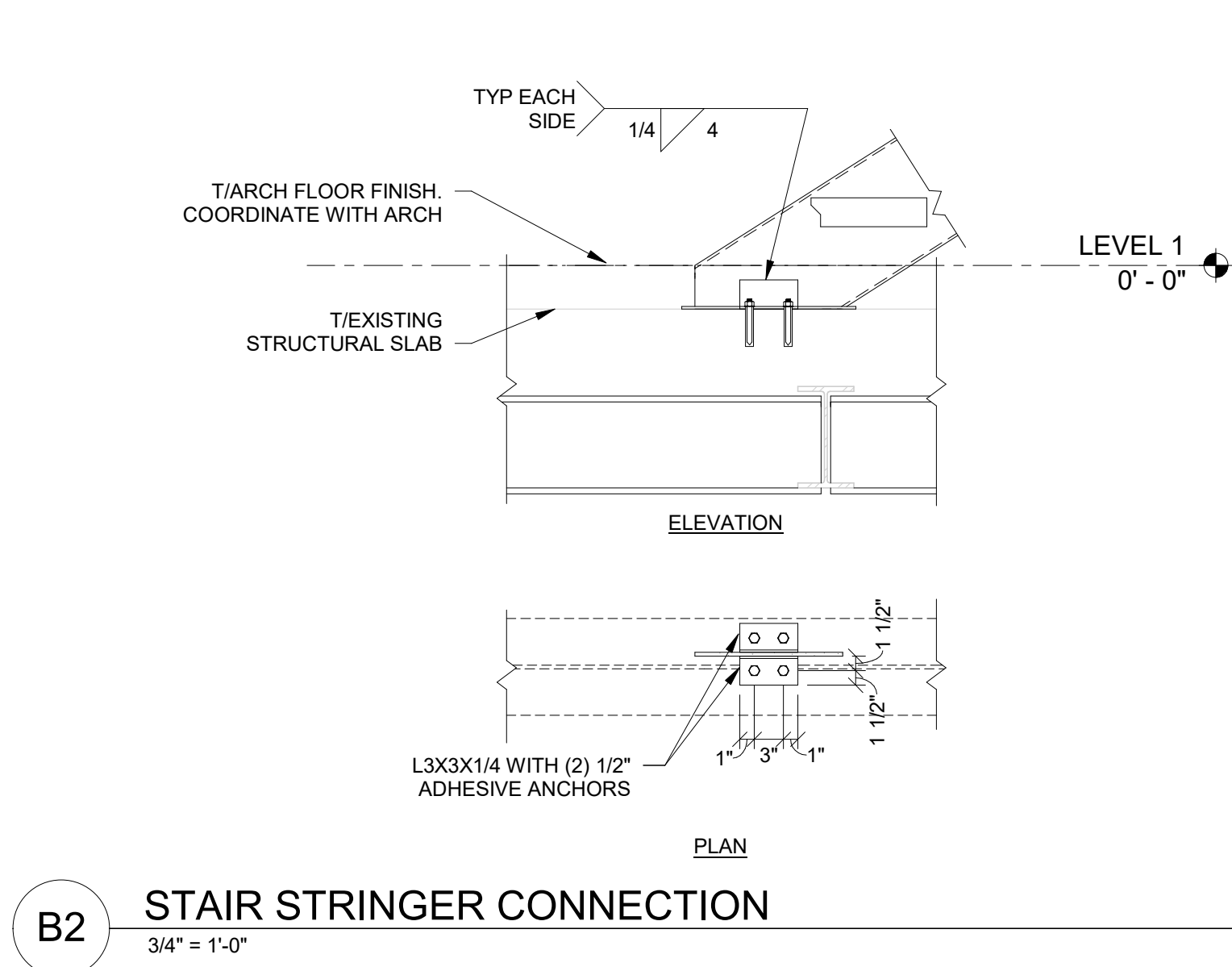
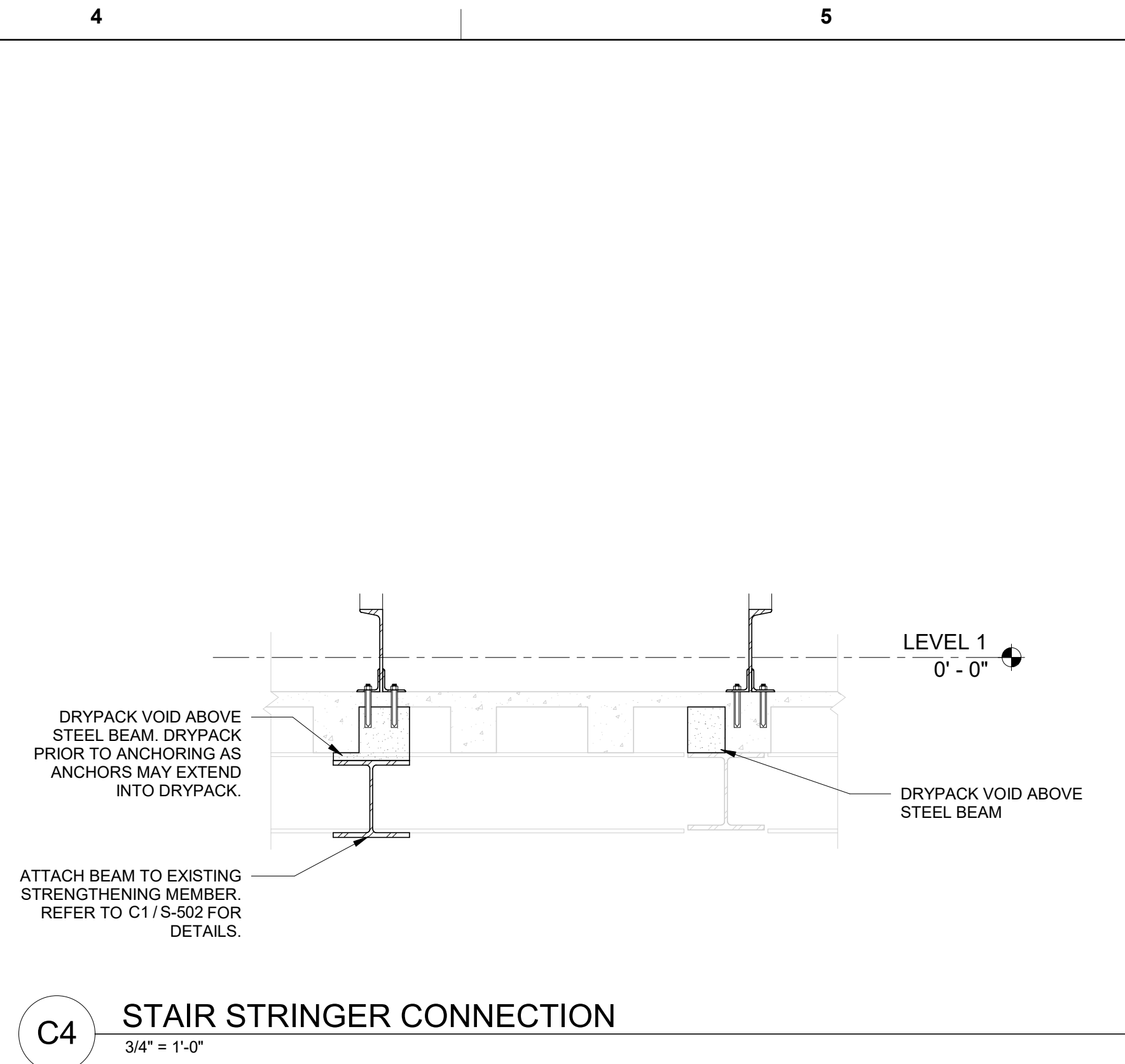
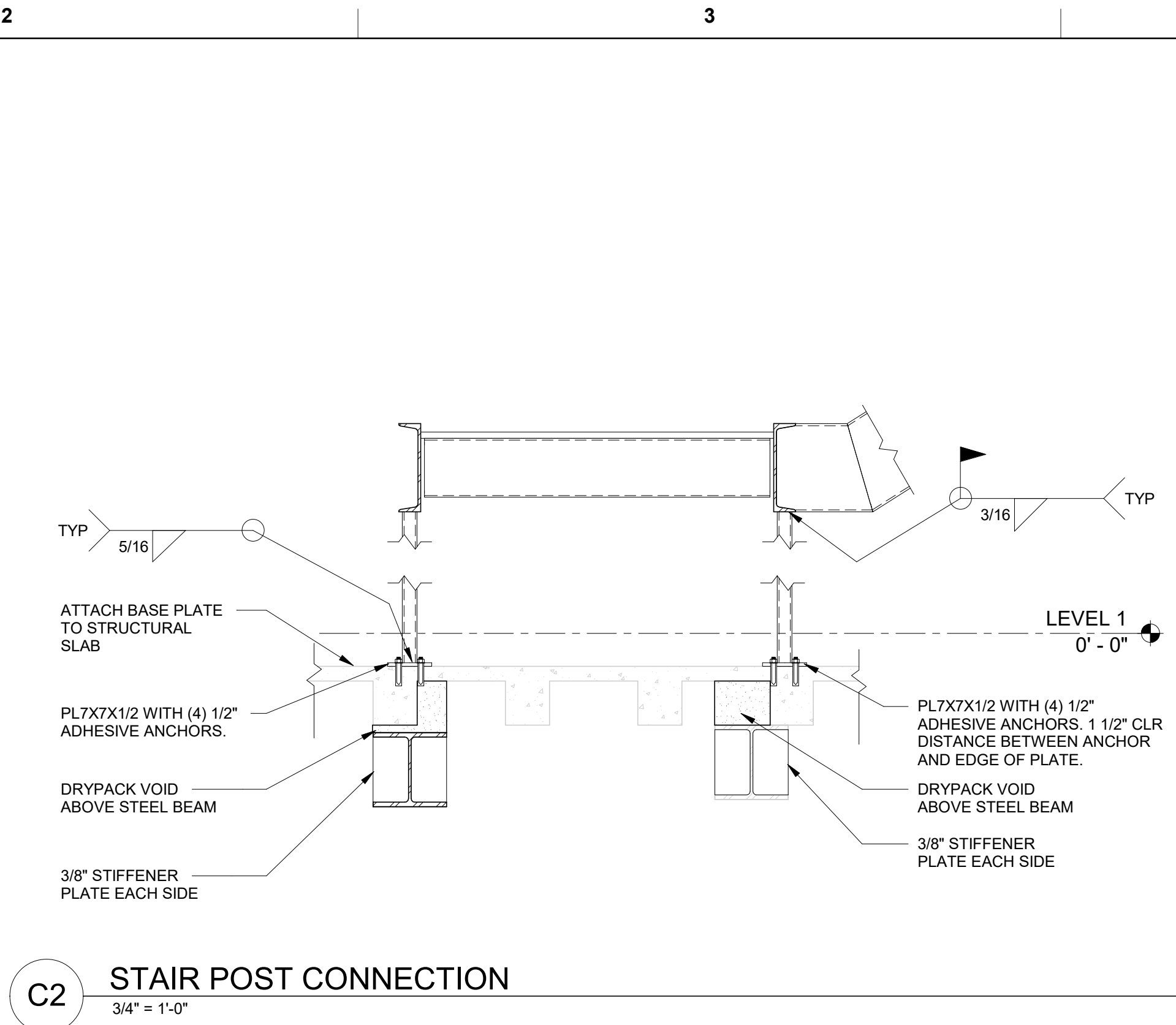
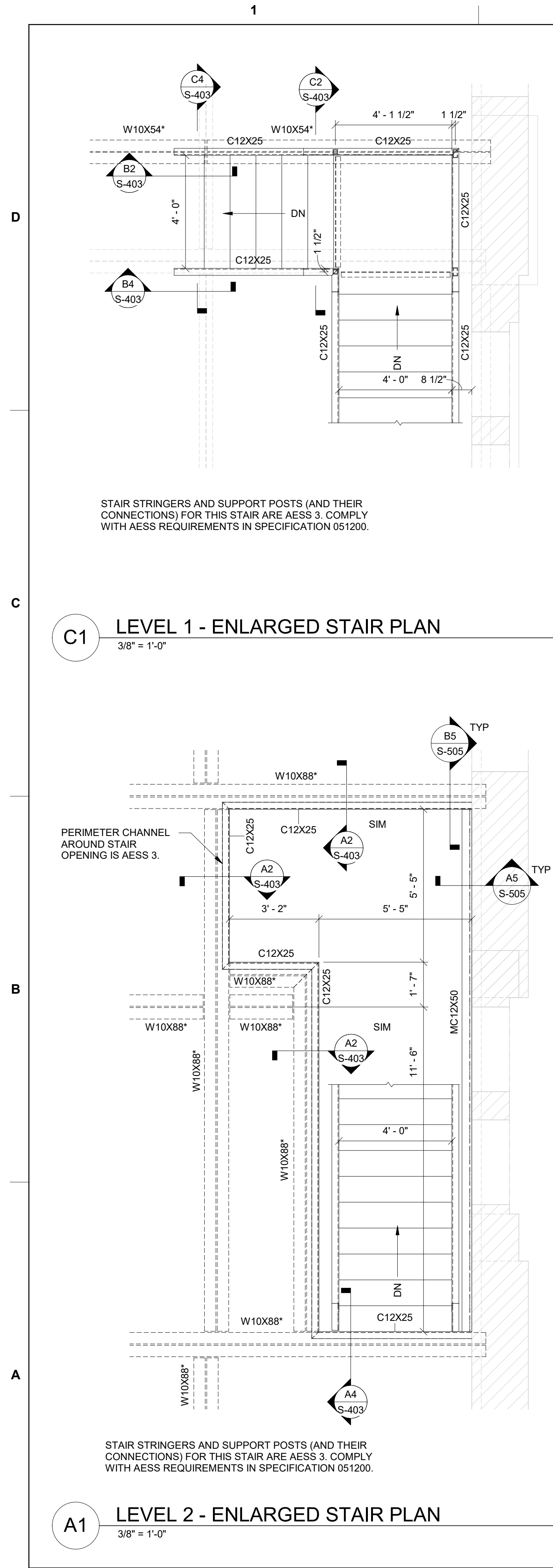
BUILDINGS 603/607 RENOVATION - LINCOLN HALL

LARGE SCALE VIEWS

SHEET ID

S-401





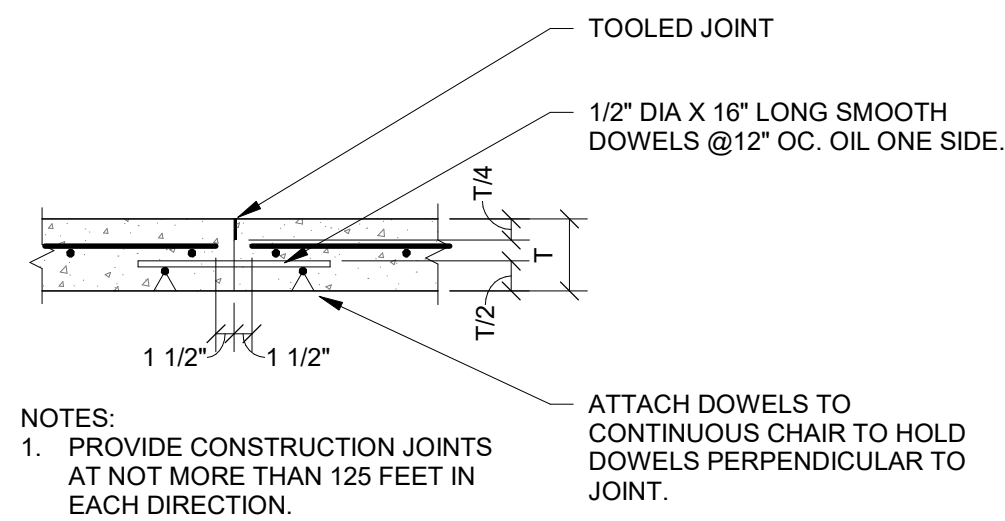
US Army Corps of Engineers®	
DATE	MARK
DESCRIPTION	
ISSUE DATE: 01 MARCH 2023	
DESIGNED BY: B. BAUMSTARK	
DRAWN BY: J. BAUMSTARK	
CHECKED BY: K. LEIBOWITZ	
SUBMITTED BY: J. BAUMSTARK	
SOLICITATION NO.: W91ZDS-19-C-0014	
FILE NUMBER: W91ZDS-19-C-0031-L	
SIZE: 11x17	
FILE NAME: A Joint Venture	
US ARMY CORPS OF ENGINEERS LINCOLN HALL WEST POINT, NEW YORK	
JACOBS / EWING COLE A Joint Venture	
BUILDINGS 603/607 RENOVATION - LINCOLN HALL	
LARGE SCALE VIEWS	
SHEET ID	
S-403	

JACOBS / EWING COLE	A Joint Venture	
	SIZE	FILE NAME:
ANSI 'D'	SUBMITTED BY:	FILE NUMBER:
DRAWING BY:	CHECKED BY:	SOLICITATION NO.:
D. BAUMSTARK	J. GALLAGHER	W912DS-19-R-0014
LINCOLN HALL WEST POINT, NEW YORK	CONTRACT NO.:	W912DS-19-R-0031-L

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

S-404

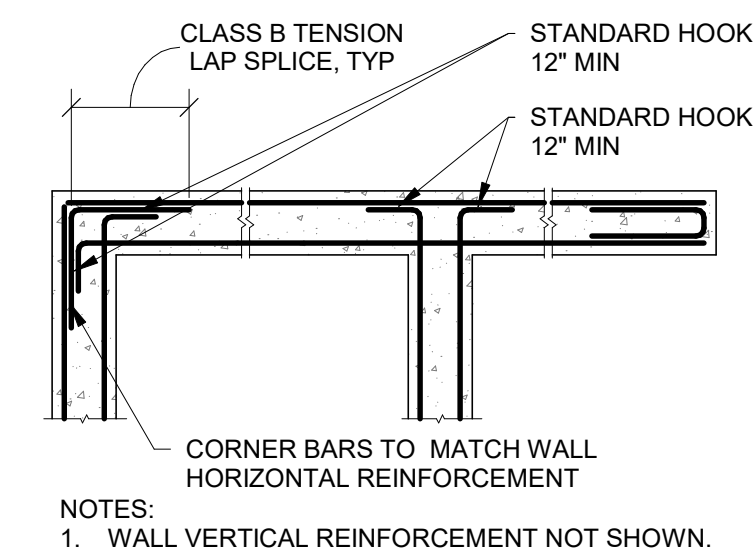




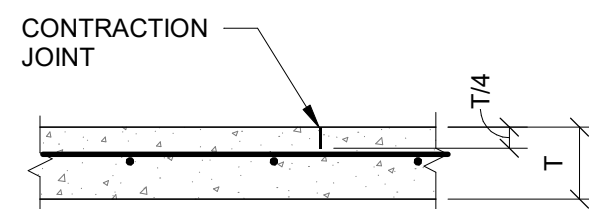
D1 SLAB-ON-GRADE ABUTS
EXISTING WALL
NTS

D2 SLAB-ON-GRADE
CONSTRUCTION JOINT

SLAB-ON-GRADE SCHEDULE				
MARK	THICKNESS (IN)	REINF EACH WAY	TOP COVER (IN)	REMARKS
SOG6	6	#3@18" OC	2	-



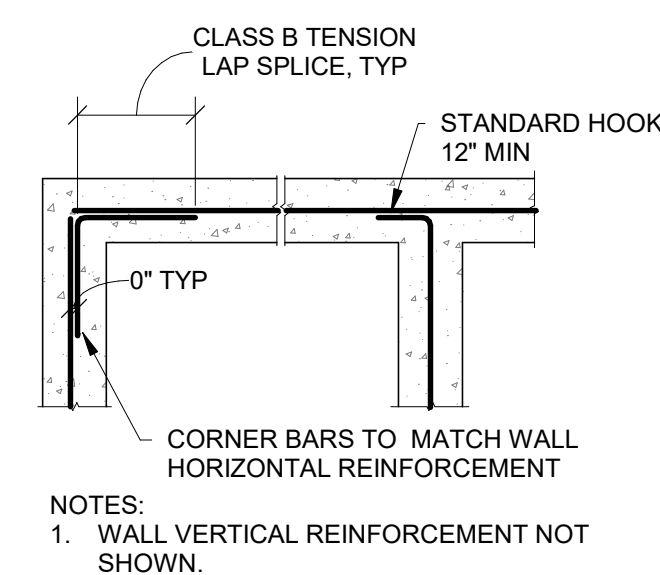
D5 CONCRETE WALL CORNER
REINFORCEMENT - TWO LAYERS
NTS



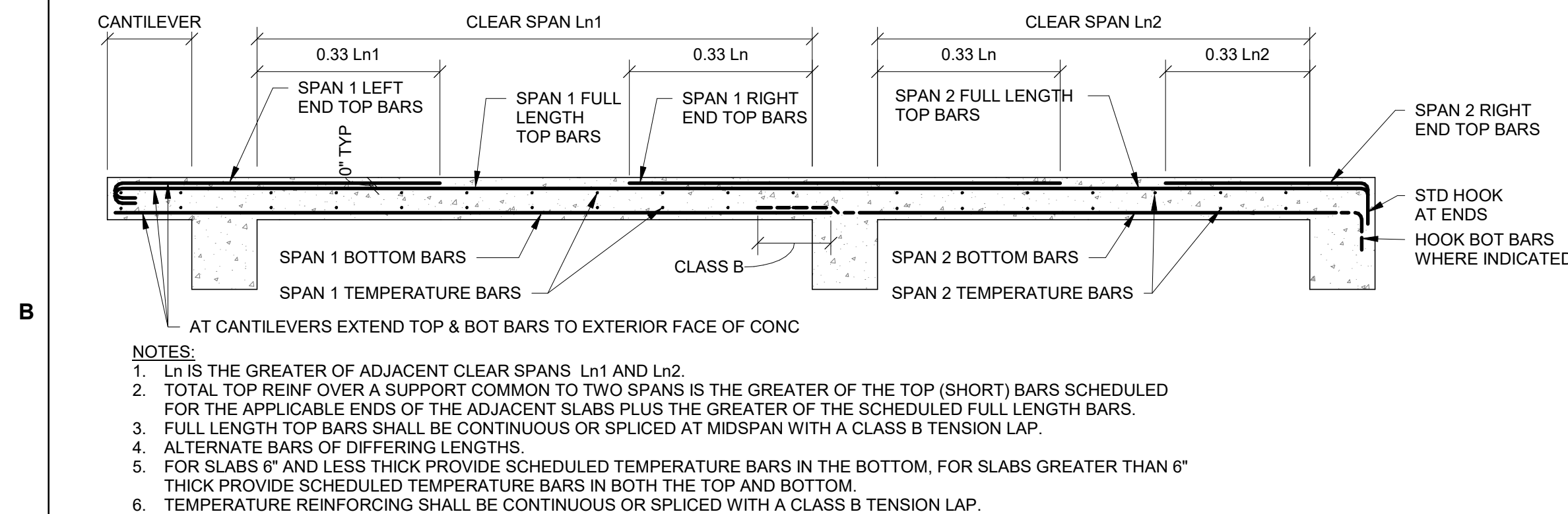
C1 SLAB-ON-GRADE ABUTS
EXISTING SLAB-ON-GRADE
NTS

C2 SLAB-ON-GRADE CONTRACTION JOINT

MASONRY WALL SCHEDULE			
MARK	NOMINAL THICKNESS (IN)	REINF VERTICAL	REMARKS
MW8	8	#5@32	-
MW6	6	#5@32	-

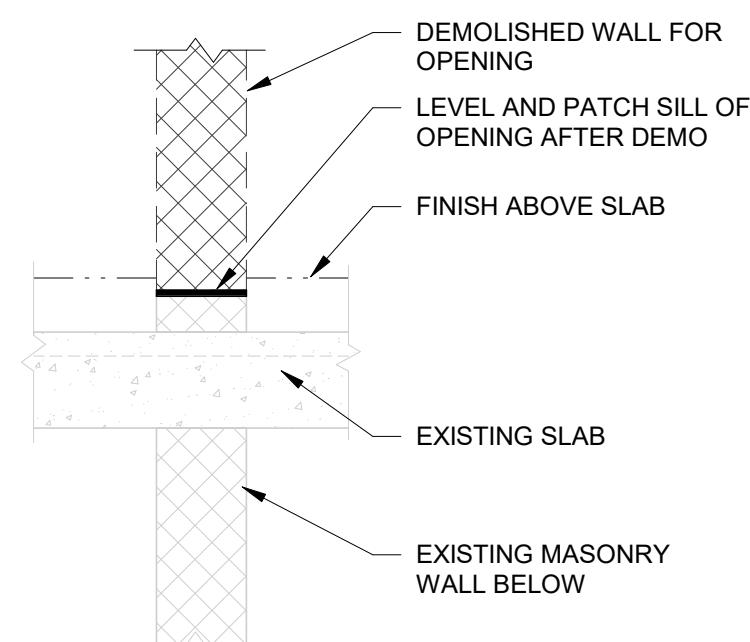


C5 CONCRETE WALL CORNER
REINFORCEMENT - ONE LAYER



B1 CONCRETE ONE-WAY SLAB REINFORCEMENT

ONE-WAY CONCRETE SLAB - TEMPERATURE BARS			
MARK	SLAB THK (in)	TEMP BARS	REMARKS
S7.5	7.5	#4@18	-
S8	8	#4@12	-



A1 CONCRETE ONE-WAY SLAB REINFORCEMENT

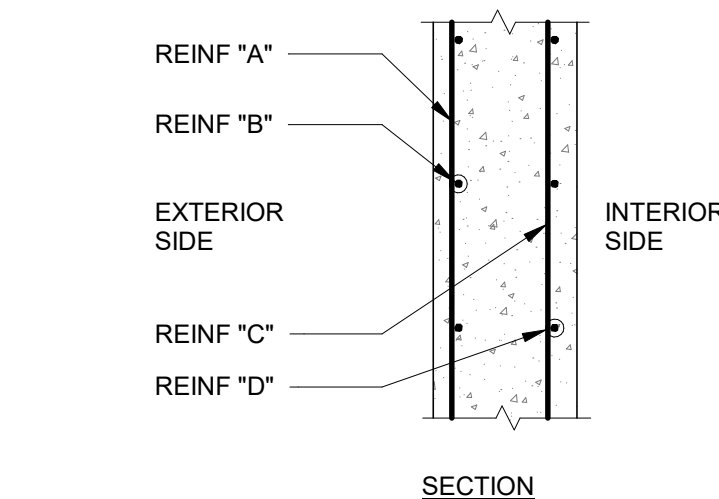
A2 PATCH SILL AT NEW OPENING
3/4" = 1'-0"

CONCRETE WALL SCHEDULE						
MARK	THICKNESS (IN)	REINF "A"	REINF "B"	REINF "C"	REINF "D"	REMARKS
CW8	8	#5@12	#5@12	NONE	NONE	REINF IS AT CENTER OF WALL
CW12	12	#4@12	#4@12	#4@12	#4@12	-
CW14	14	#4@12	#4@12	#4@12	#4@12	-

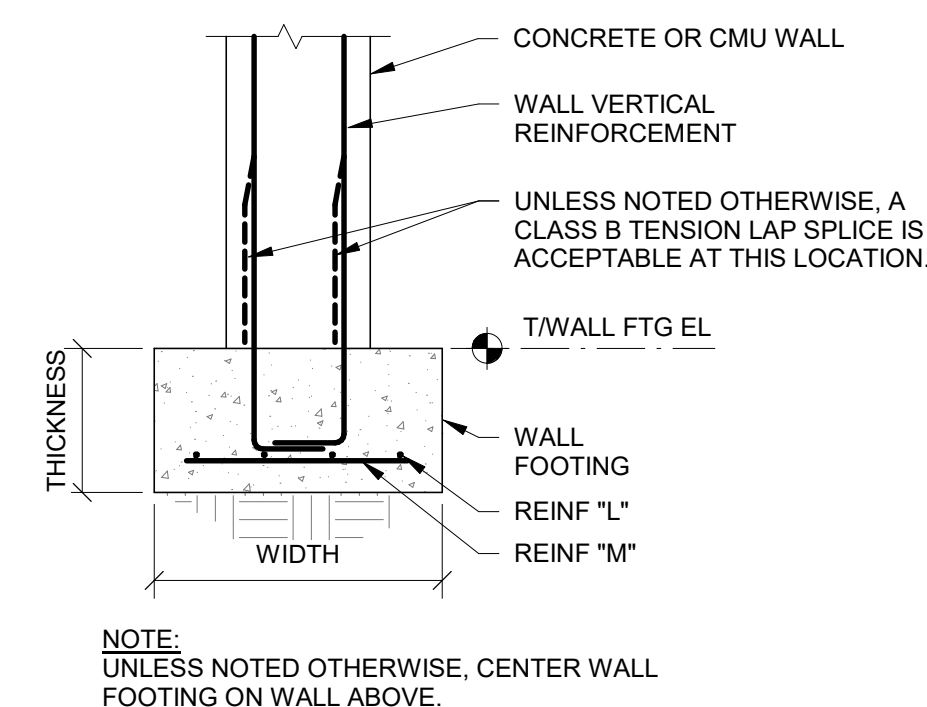
B3 CONCRETE WALL SCHEDULE

CONCRETE WALL FOOTING SCHEDULE					
MARK	THICKNESS (IN)	WIDTH (IN)	REINF "L"	REINF "M"	REMARKS
WF1x1.5	12	18	2#4 CONT	#4@12	-
WF2	12	24	3#4 CONT	#4@12	-

A3 CONCRETE WALL FOOTING SCHEDULE



B5 CONCRETE WALL REINFORCEMENT



A5 WALL FOOTING REINFORCEMENT

[illegible]

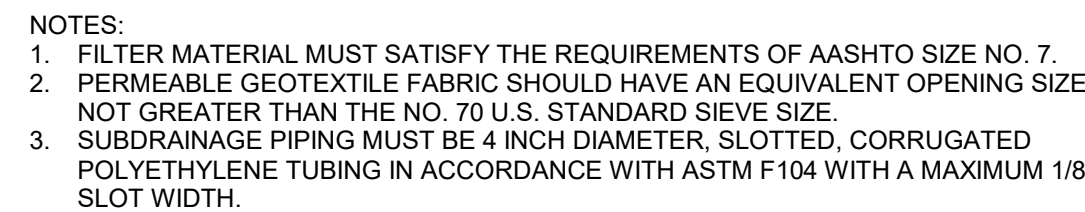
US ARMY CORPS OF ENGINEERS LINCOLN HALL WEST POINT, NEW YORK	DESIGNED BY: B. BAUMSTARK	ISSUE DATE: 01 MARCH 2023
	DRAWN BY: A. GAUGHNER	SOLICITATION NO.: W912D5-19-R-0014
	CHECKED BY: K. LEIBOWITZ	PROJECT NO.: W912D5-19-C-0031-1
	SUBMITTED BY:	FILE NUMBER:
JACOBS / EWING COLE	SIZE: ANSI D	FILE NAME:

B3BUILDINGS 605/607 RENOVATION - LINCOLN HALL

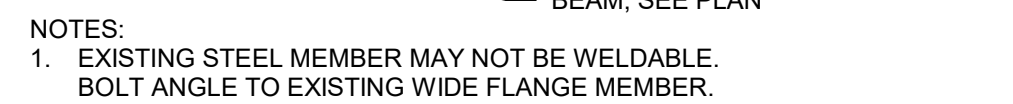
TYPICAL DETAILS - FOUNDATIONS, WALLS, SLABS-ON-GRADE, SLABS

SHEET ID

S-501

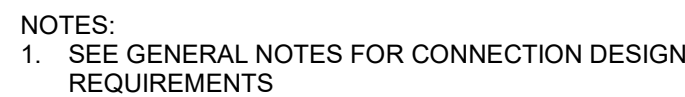
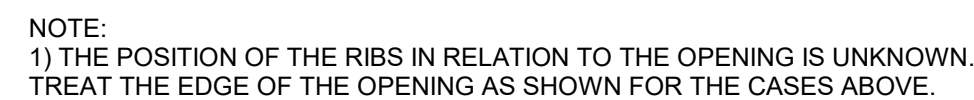
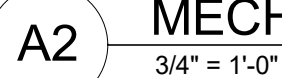


D1 — DRAIN
3/4" = 1'-0"

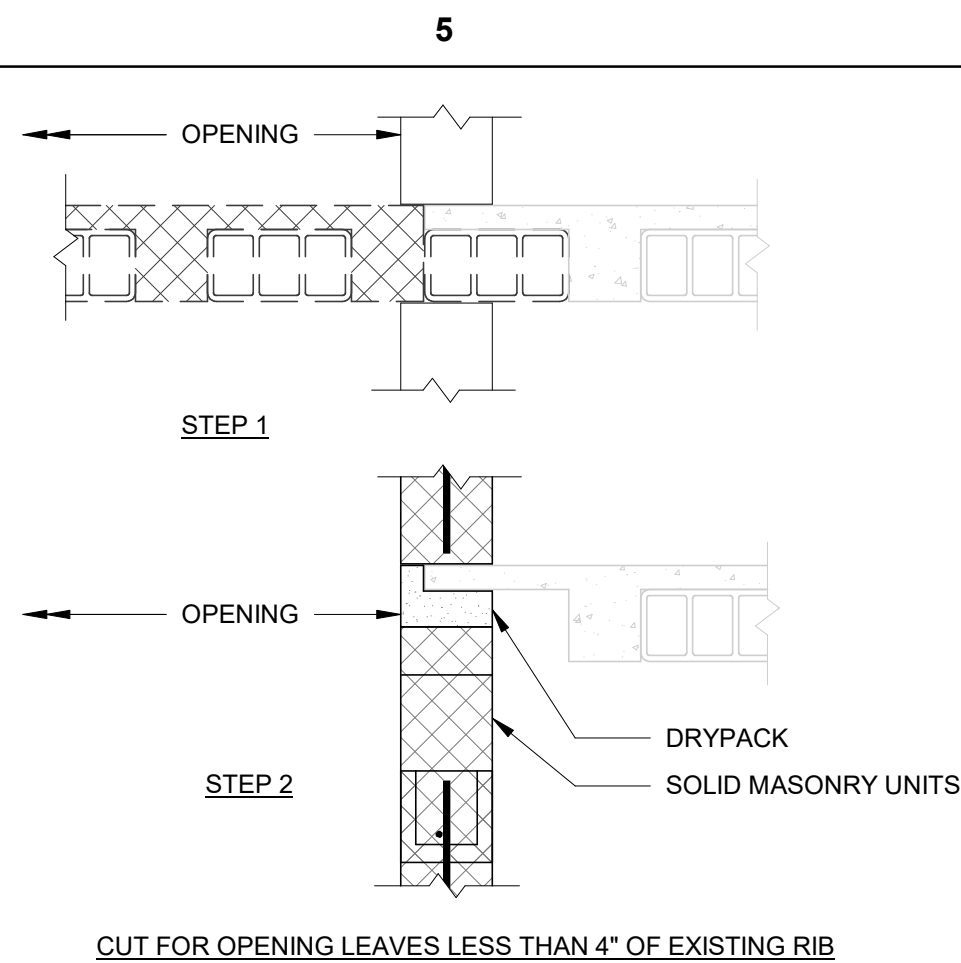


$$3/4'' = 1'-0''$$

$$3/4'' = 1'-0''$$


$$1'' = 1'-0'$$

$$\frac{3}{4}'' = 1'-0''$$


3/4" = 1'-0"



$3/4'' = 1'-0''$

NOTES:

1. MINIMUM EFFECTIVE EMBEDMENT IS APPLIED TO POST INSTALLED ANCHORS UNLESS OTHERWISE NOTED IN THE DETAIL.
2. REQUIRED SHEAR CAPACITY IS AN UNFACTORED LOAD.

NTS



NTS

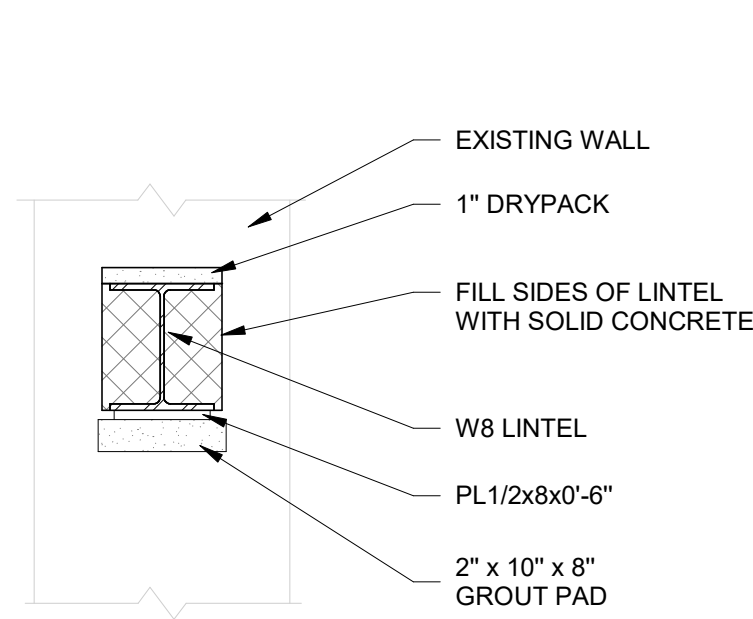
NOTES:

1. CASE 1 IS DEFINED AS BARS WITH CLEAR SPACING OF AT LEAST $2 \times d_b$ AND WITH CLEAR COVER AT LEAST d_b .
2. CASE 2 IS DEFINED AS BARS THAT DO NOT SATISFY THE REQUIREMENTS OF CASE 1.
3. FOR BARS CAST WITH 12" OR MORE OF FRESH CONCRETE BELOW, MULTIPLY THE VALUES BY 1.3.
4. FOR LAP SPLICES, MULTIPLY THE VALUES BY 1.3.
5. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE VALUES BY 1.34.

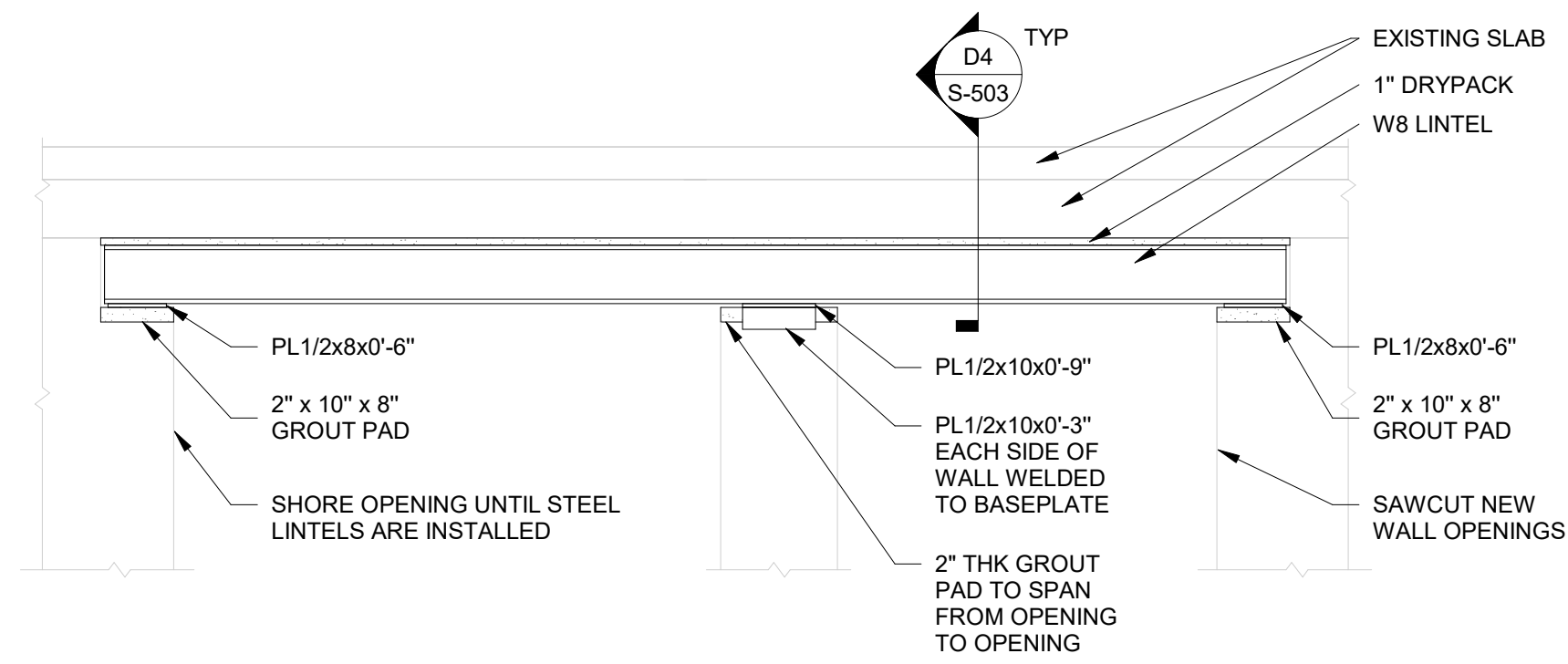
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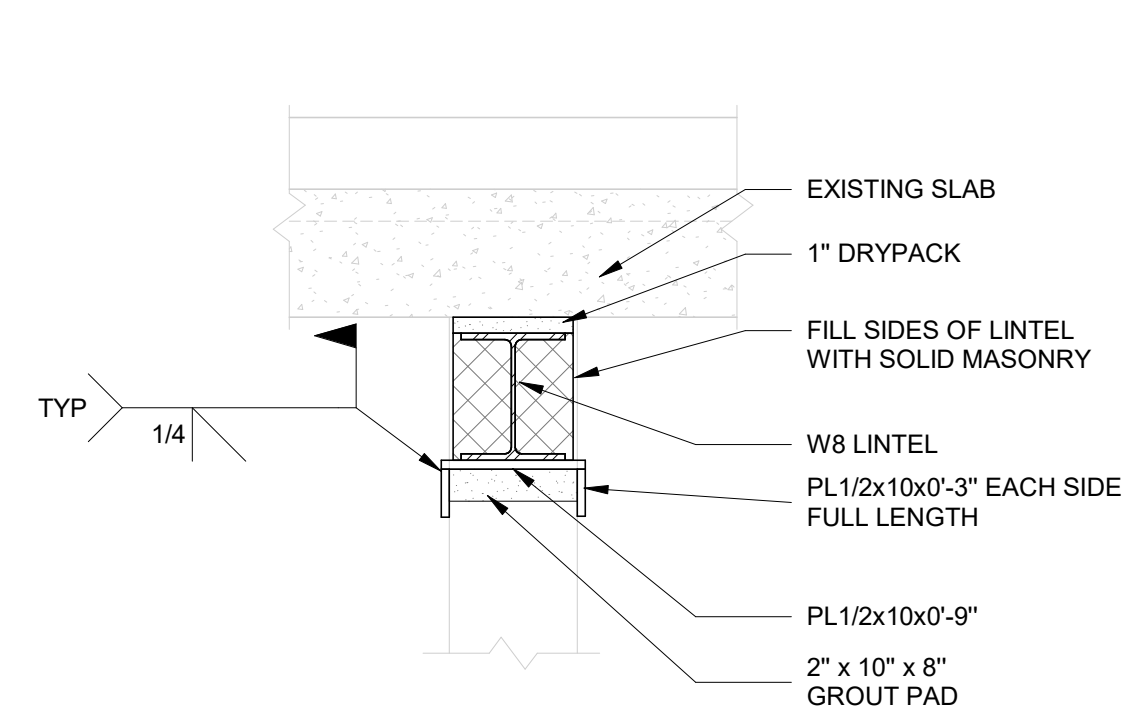
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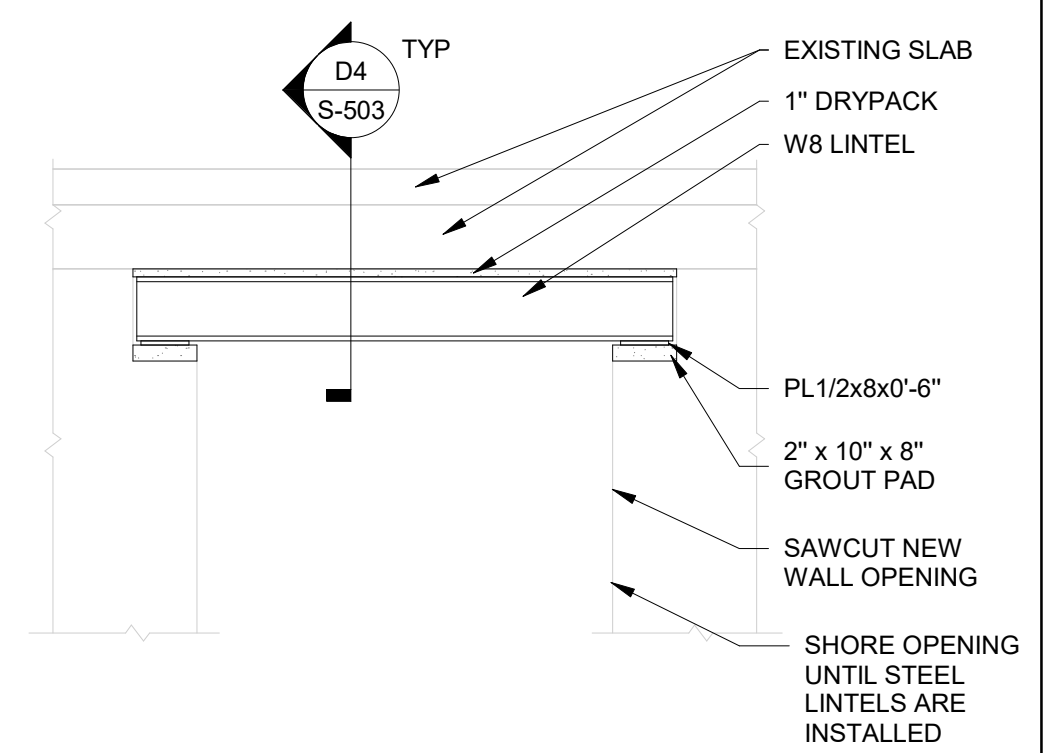
D1 EXTERIOR WALL OPENING
WITH LINTEL - SECTION
1" = 1'-0"



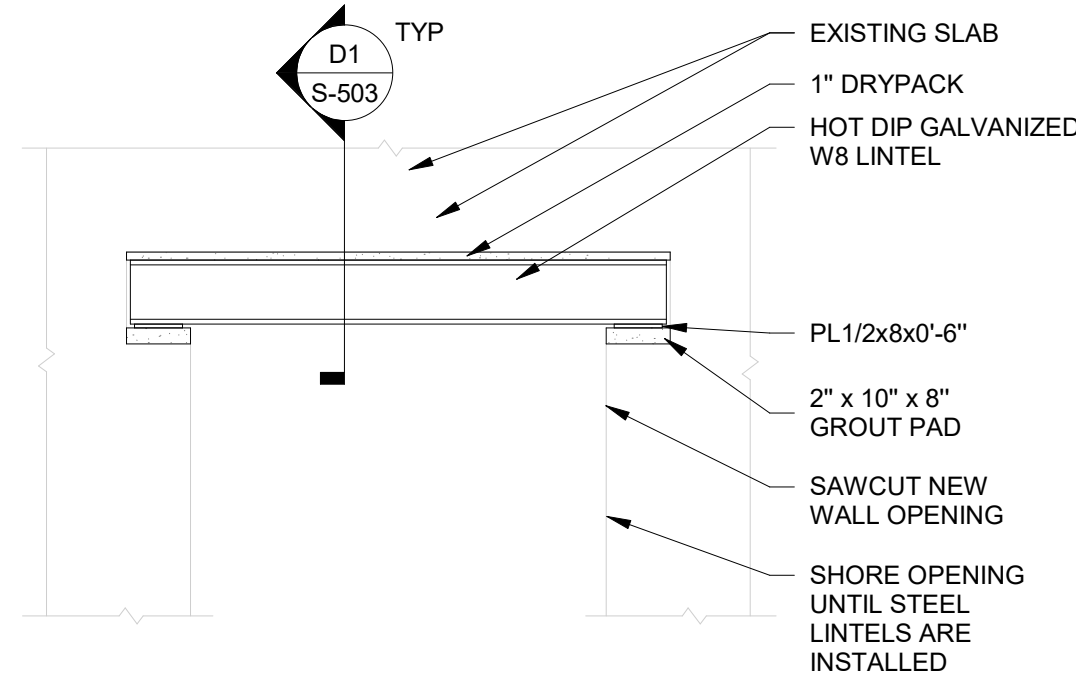
D2 CORRIDOR WALL MULTIPLE OPENINGS WITH LINTEL - ELEVATION



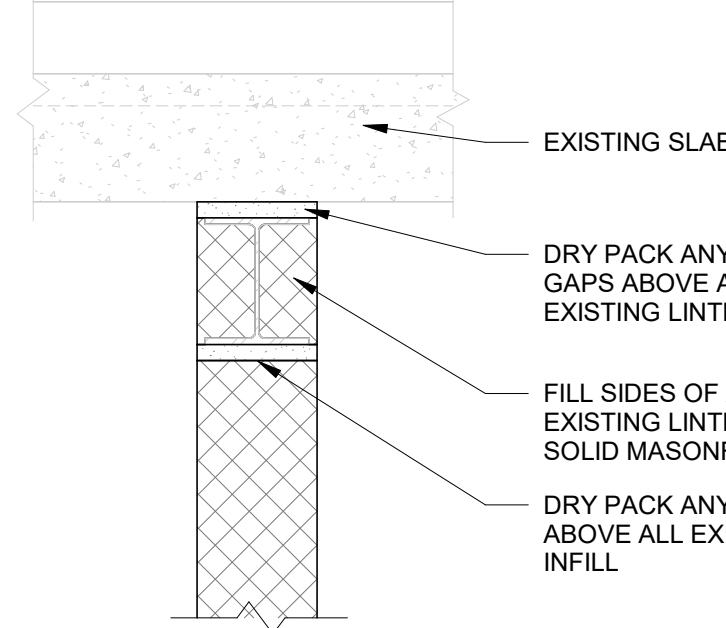
D4 COORIDOR WALL OPENING
WITH LINTEL - SECTION



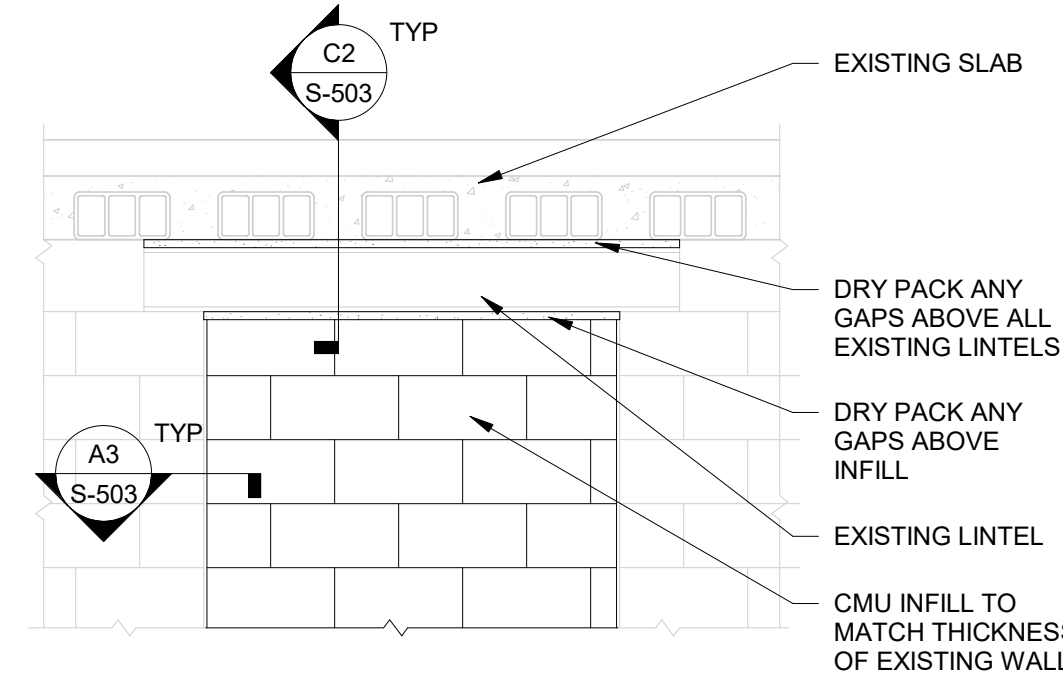
D5 CORRIDOR WALL OPENING
WITH LINTEL - ELEVATION
NTS



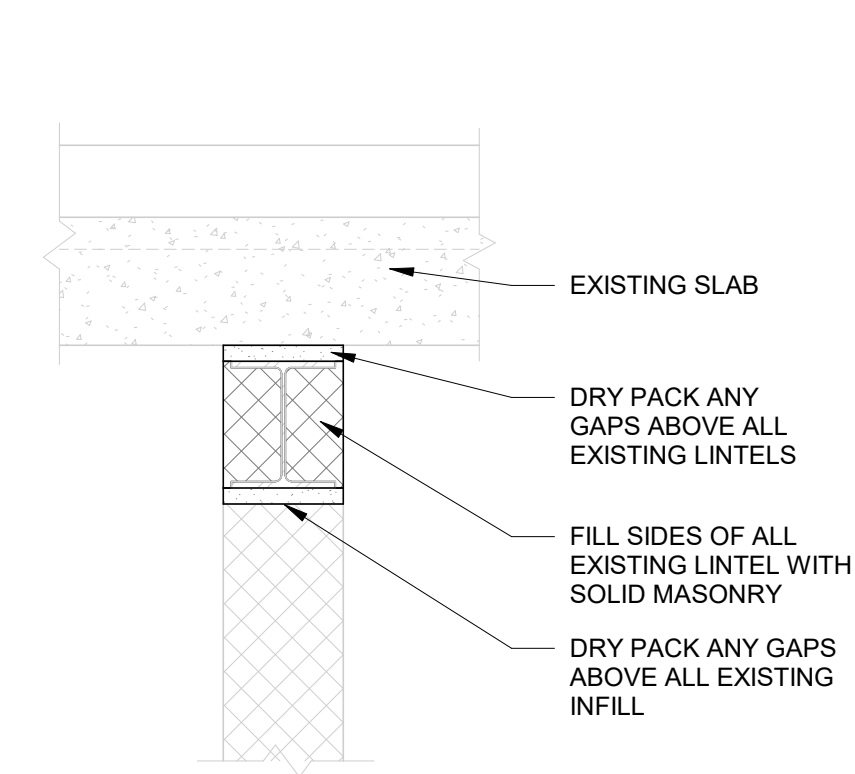
C1 EXTERIOR WALL OPENING
WITH LINTEL - ELEVATION
1/2" = 1'-0"



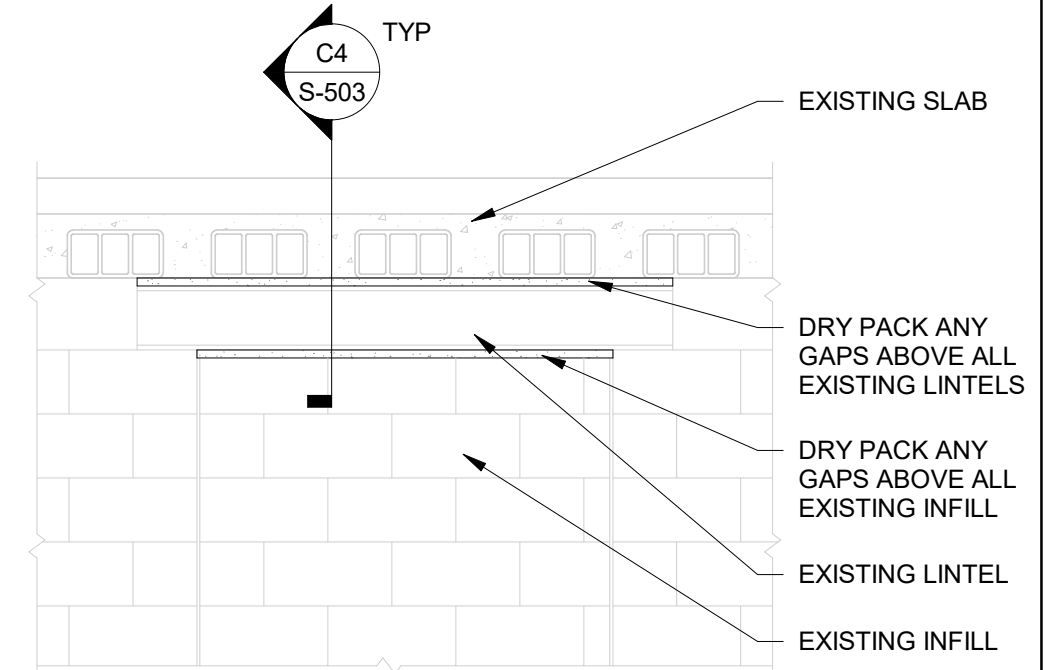
C2 INFILL EXISTING OPENING IN
COORIDOR WALL - SECTION
NTS



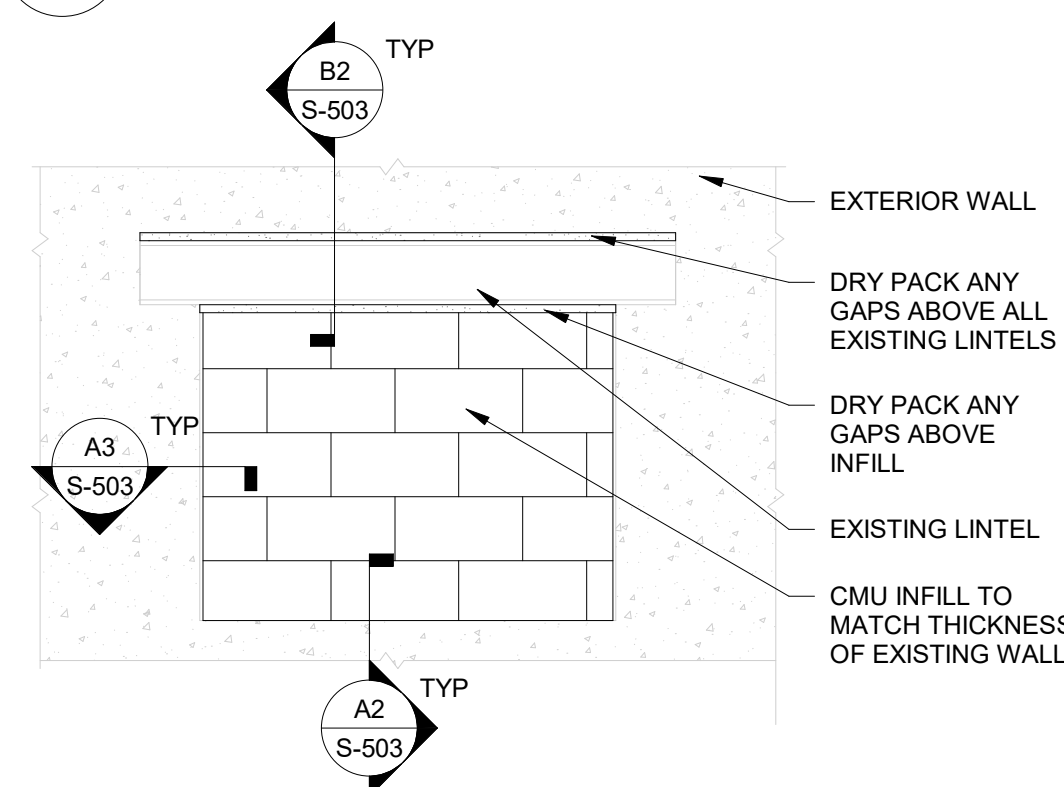
C3 INFILL EXISTING OPENING IN
CORRIDOR WALL - ELEVATION
NTS



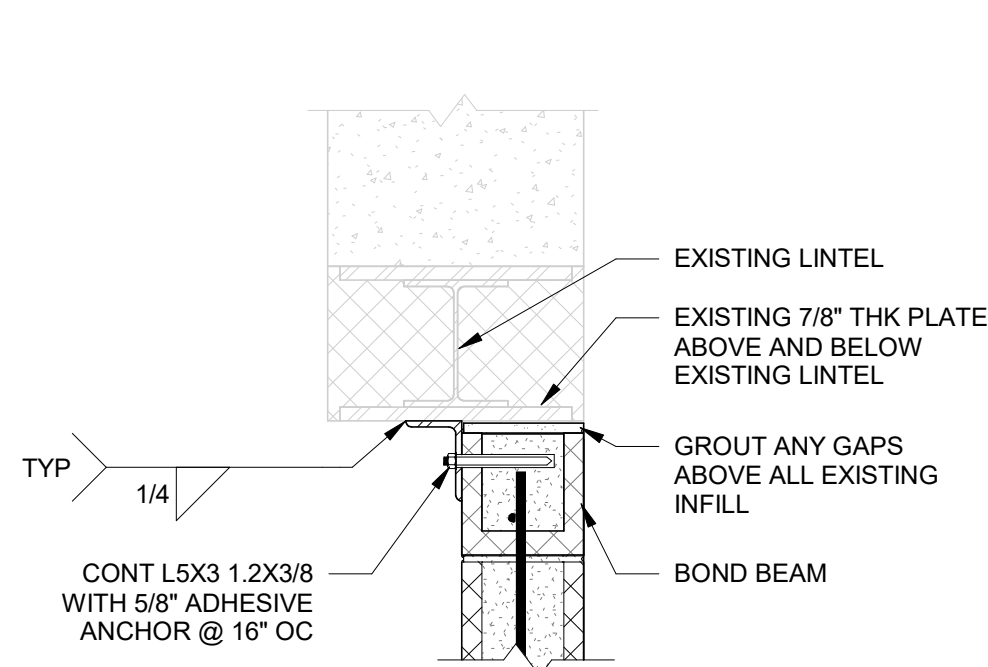
C4 EXISTING INFILLED OPENING IN
COORDOR WALL - SECTION



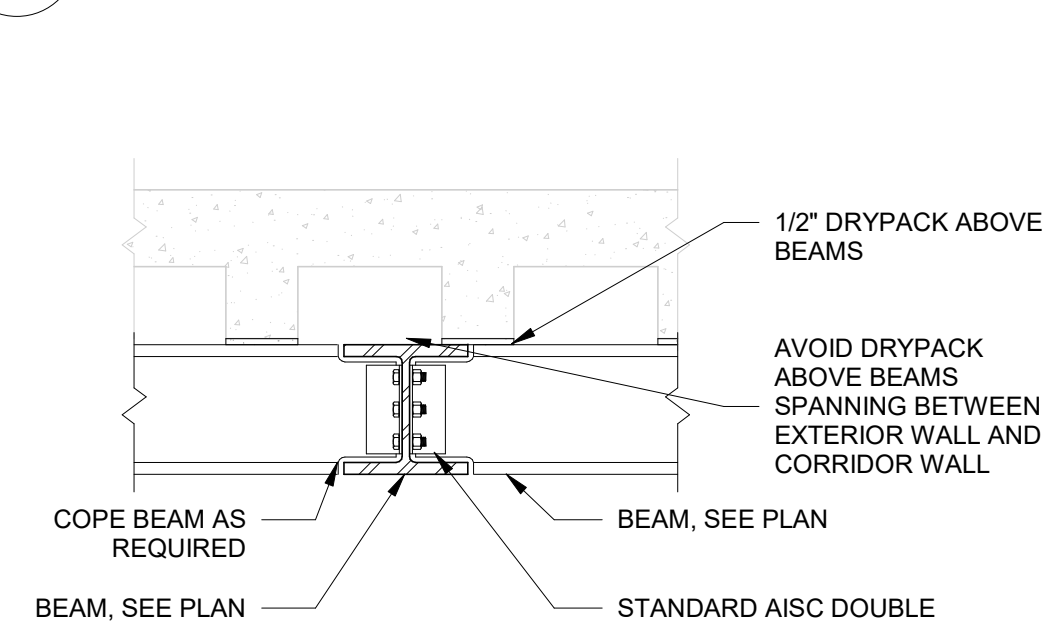
C5 EXISTING INFILLED OPENING IN
CORRIDOR WALL - ELEVATION



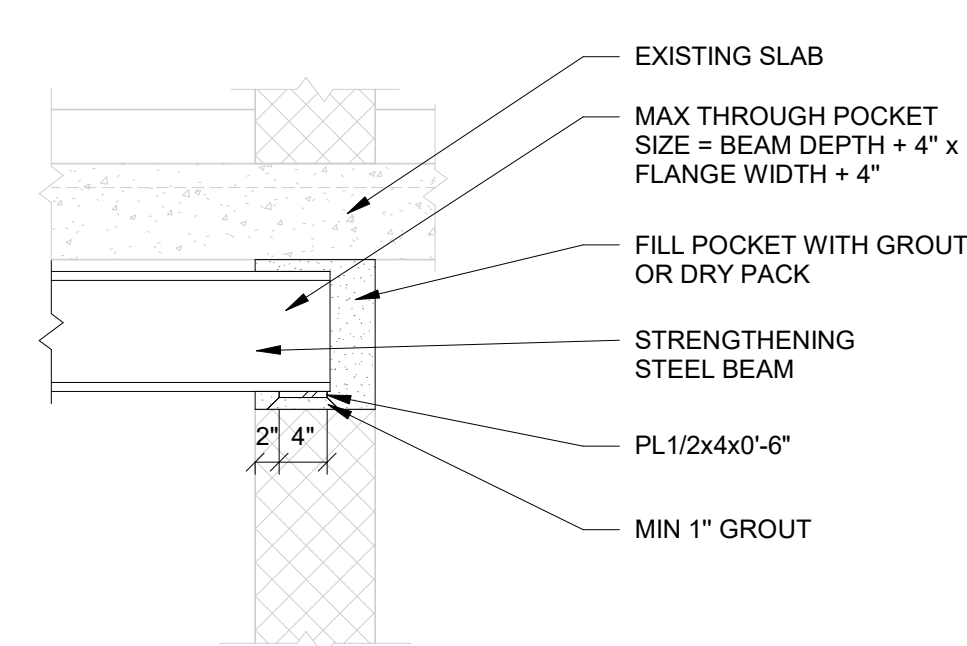
B1 INFILL EXISTING OPENING IN
EXTERIOR WALL - ELEVATION
1/2" = 1'-0"



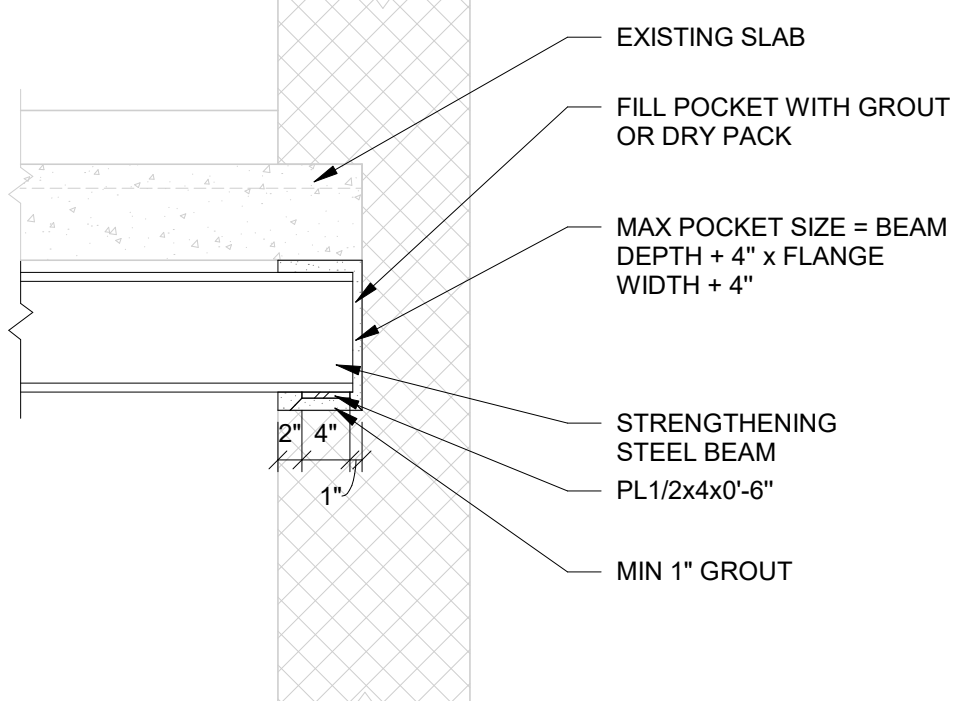
B2 INFILL EXISTING OPENING IN
EXTERIOR WALL - SECTION
1" = 1'-0"



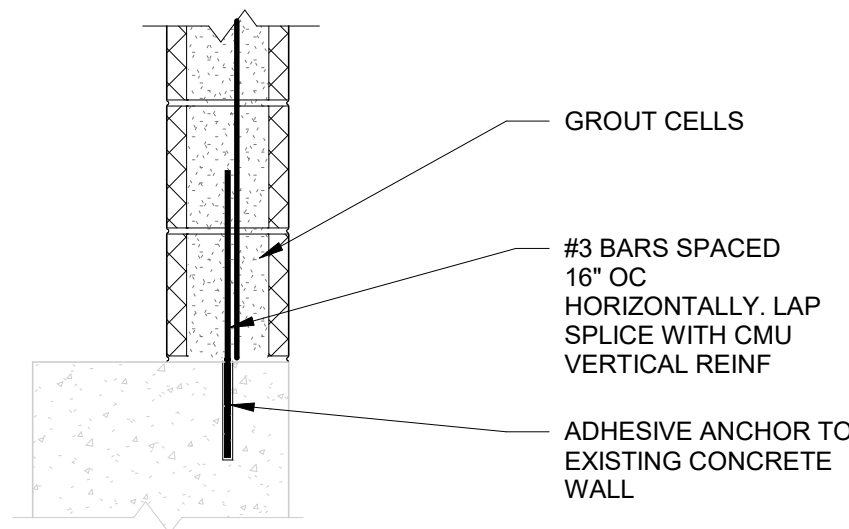
B3 BEAM TO GIRDER DETAIL -TYPICAL
3/4" = 1'-0"



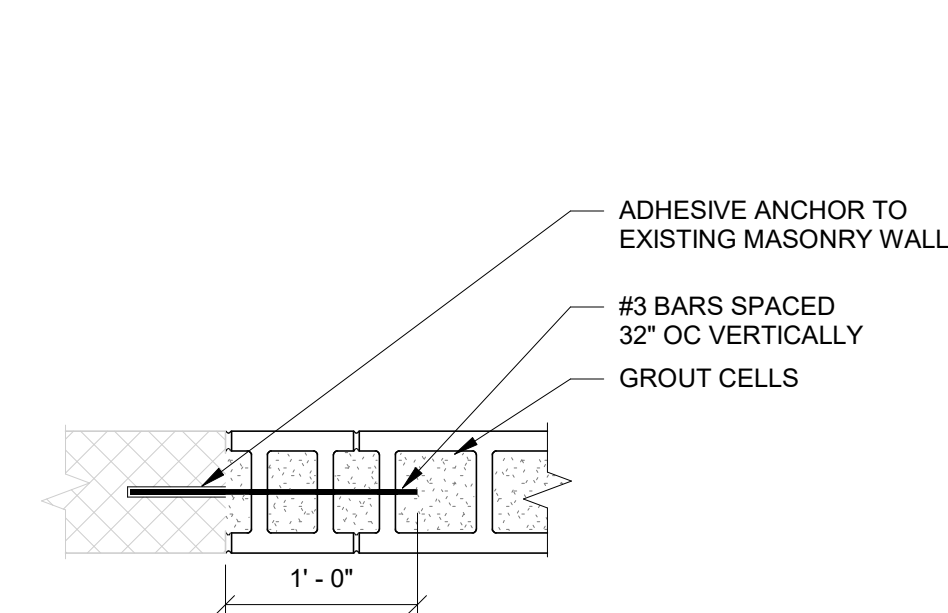
B4 STEEL BEAM BEARING ON
CORRIDOR WALL
NTS



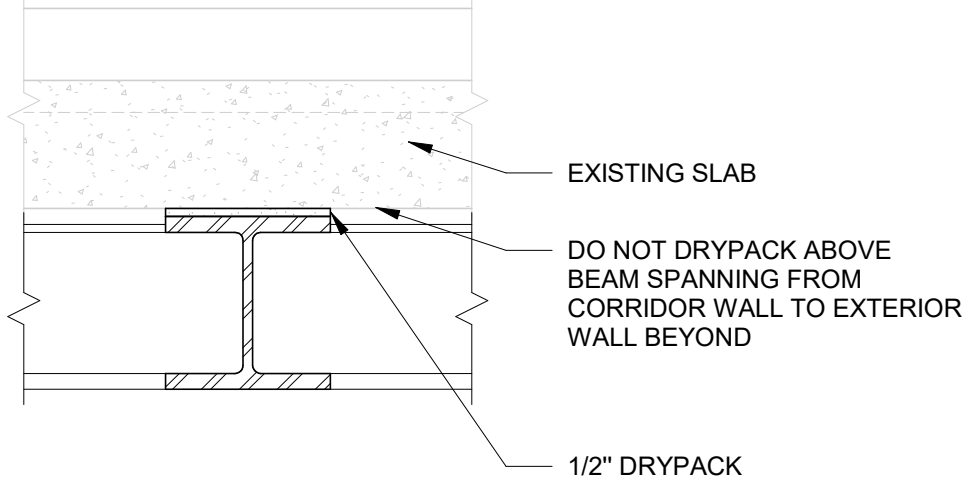
B5 STEEL BEAM BEARING
ON EXTERIOR WALL



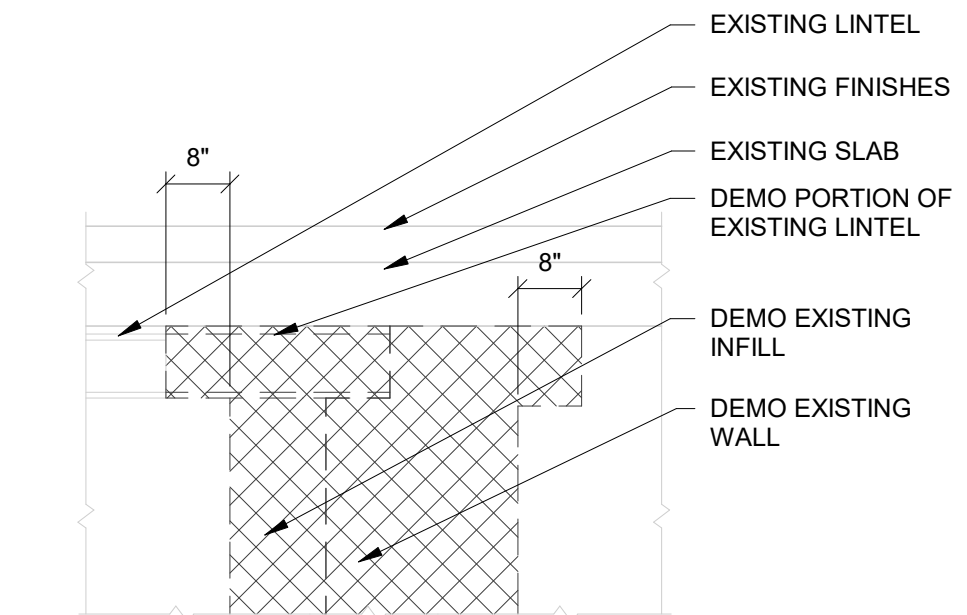
A2 INFILL EXISTING OPENING IN EXTERIOR WALL - SECTION
1" = 1'-0"



A3 SECTION
1" = 1'-0"

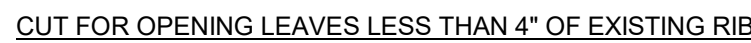


A4 STEEL BEAM STRENGTHENING



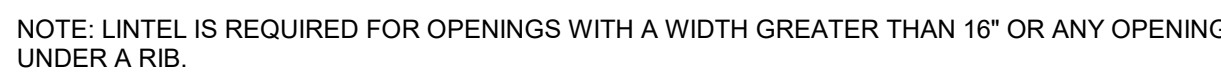
A5 CORRIDOR WALL OPENING OVERLAPS
EXISTING INFILLED OPENING
NTS


$$\frac{3}{4}'' = 1'-0''$$

$$\frac{3}{4}'' = 1'-0''$$


NOTE:

1) THE POSITION OF THE RIBS IN RELATION TO THE OPENING IS UNKNOWN. TREAT THE EDGE OF THE OPENING AS SHOWN FOR THE CASES ABOVE



C2 PARTIAL CORRIDOR WALL OPENING WITH LINTEL - ELEVATION

$$1/2'' = 1'-0''$$

B3 STEEL LINTEL SCHEDULE

NTS

NOTES

1. THE ORIENTATION OF THE MARK ON THE PLAN INDICATES THE DIRECTION OF THE DECK SPAN.
2. CONCRETE TOPPING THICKNESS IS THICKNESS ABOVE TOP OF DECKING.
3. DECKS THAT RECIEVE CONCRETE TOPPING MUST BE COMPOSITE DECKS.

A2 STEEL DECKING SCHEDULE

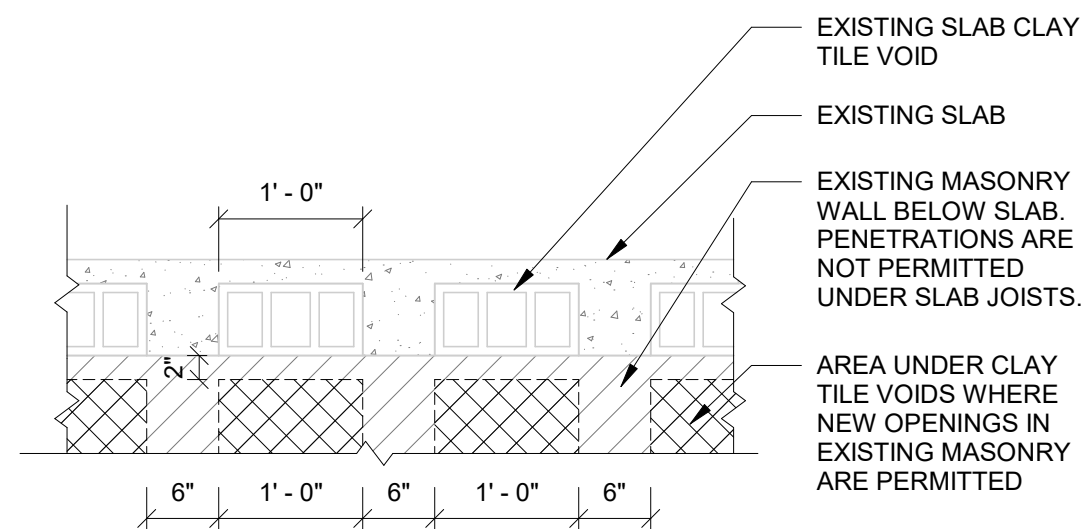
NTS

A1 INFILL ABOVE STRENGTHENING ADJACENT TO OPENING - SECTION

3/4" = 1'-0"

C4 STEEL GRATING SCHEDULE

12" = 1'-0"



B4 OPENINGS IN EXISTING MASORY WALL BELOW SLAB

3/4" = 1'-0"

