

NAVAL STATION - NORFOLK, VIRGINIA



APPROVED

[Signature]

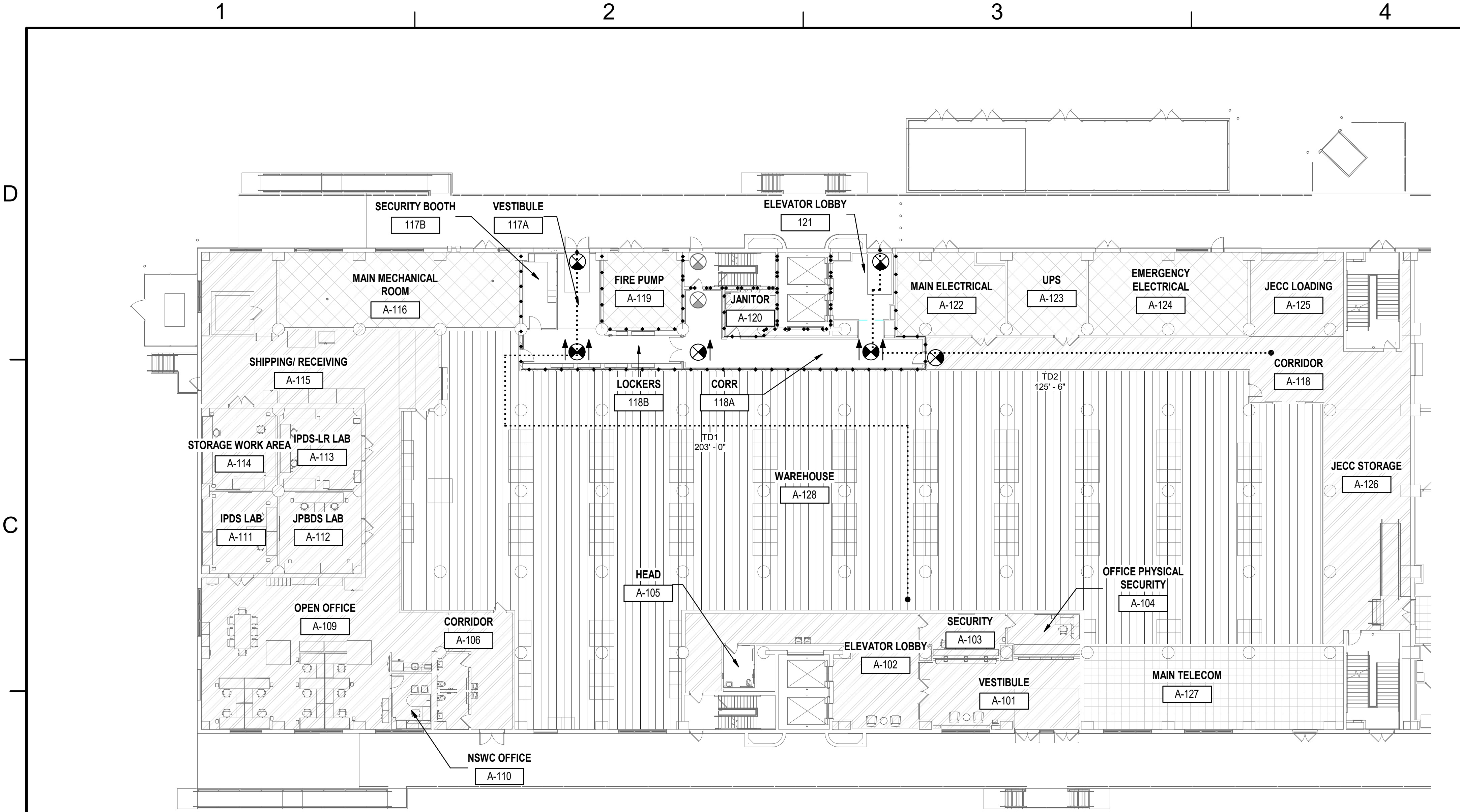
FOR COMMANDER NAVFAC 7-20-26

APPROVED BY Approved by Ron Couture, Program Manager, with MSC, via Email.			
SATISFACTORY TO DATE		07/14/2026	
DES	SAR	DRW	SAR
CHK	DAS		
W/DM		DAS/SAR	
BRANCH MANAGER		A. PILLO, RA	
CHIEF ENG/ARCH		J. MILLER, PE	
FIRE PROTECTION		HPN	

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDANT - ROICC NORFOLK	NORFOLK, VIRGINIA
NAVAL STATION	BUILDING X-132
	ENTRANCE AT NORTHEAST LOADING DOCK
	COVER SHEET

SCALE:	AS NOTED	
PROJECT NO.:	1845266	
CONSTR. CONTR. NO.	N/A	
AVFAC DRAWING NO.	12,950,948	
SHEET	1	OF 69
GI001		

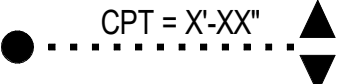
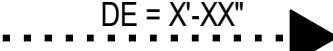
DRAWFORM REVISION: 14 SEP 2023



B1 FIRST FLOOR PLAN - LIFE SAFETY
SCALE: 1/16" = 1'-0"

OCCUPANCY/ USE GROUP KEY AND OCCUPANT LOAD FACTORS		
KEY	OCCUPANCY/ USE GROUP	OCCUPANT LOAD FACTOR (SF/PERSON)
NO HATCH	BUSINESS - UNCONCENTRATED	150 GROSS
	BUSINESS - CONCENTRATED	50 GROSS
	STORAGE	500 GROSS
	MECH./ ELECT./BUILDING EQUIPMENT	500 GROSS
	TELECOM.	300 GROSS



LIFE SAFETY LEGEND							
SYMBOL	DESCRIPTION						
	1 HOUR FIRE BARRIER						
	2 HOUR FIRE BARRIER						
	AREA NOT IN CONTRACT						
 CPT = X'-XX"	COMMON PATH OF TRAVEL						
 DE = X'-XX"	DEAD-END CORRIDOR						
 MTD = X'-XX"	MAXIMUM TRAVEL DISTANCE						
<table border="1" data-bbox="2386 1300 2430 1366"><tr><td colspan="2">N</td></tr><tr><td>W</td><td>P</td></tr><tr><td>C</td><td>A</td></tr></table>	N		W	P	C	A	N: EXIT NUMBER W: NET EXIT WIDTH (INCHES) C: CAPACITY (PEOPLE) P: EXIT WIDTH PER PERSON A: ACTUAL EGRESS (PEOPLE)
N							
W	P						
C	A						
OCCUPANCY, TYPE A - ASSEMBLY B - BUSINESS S - STORAGE	<table border="1" data-bbox="2526 1397 2616 1493"><tr><td colspan="2">1500 SF</td></tr><tr><td>B</td><td>150</td></tr><tr><td colspan="2">10</td></tr></table> ROOM / ZONE AREA OCCUPANT LOAD FACTOR OCCUPANT	1500 SF		B	150	10	
1500 SF							
B	150						
10							

KEY PLAN

GRAPHIC SCALE
1/16" = 1' - 0" 0 5' 10' 20' 30' 60'

DATE

DESCRIPTION

MARK

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
Approved by Ron Couture,
Program Manager, with
MSC, via Email.

SATISFACTORY TO DATE 07/14/2026

DES MWB | DRW DMH | CHK HPN

PMIDM DAS/SAR

BRANCH MANAGER HPN

CHIEF ENGINEER J. MILLER, PE

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MIDLAND - ROICC NORFOLK
NAVAL STATION - NORFOLK, VA
NORFOLK, VIRGINIA

BUILDING X-132
ENTRANCE AT NORTHEAST LOADING DOCK
FIRST FLOOR PLAN - LIFE SAFETY

SCALE: AS NOTED

PROJECT NO.: 1845266

CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,950.951

SHEET 4 OF 69

G1101

DRAWING REVISION: 14 SEP 2023

GENERAL NOTES

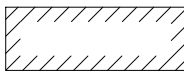
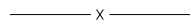
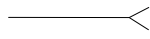
- A. A TOPOGRAPHIC SURVEY WAS PERFORMED BY NAVFAC MIDLANT CODE PRW21B6 IN JUNE 2026 AMENDED DATA WHICH HAS NOT BEEN FIELD VERIFIED. ALL EXISTING CONDITIONS INCLUDING UTILITIES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND NOTIFY THE CONTRACTING OFFICER OF ANY DEVIATIONS WHICH WILL IMPACT THE PROPOSED WORK.
- B. UTILITY INFORMATION ON THESE DRAWINGS IS FROM BEST AVAILABLE RECORDS AND SURFACE OBSERVATIONS AND DOES NOT GUARANTEE THE EXISTENCE/NON-EXISTENCE, SIZE, TYPE OR LOCATION OF UNDERGROUND UTILITIES. LOCATION OF ALL UTILITIES IS THE RESPONSIBILITY OF THIS CONTRACTOR.
- C. COMPLY WITH THE PROVISIONS OF THE "VIRGINIA UNDERGROUND UTILITY DAMAGE PREVENTION ACT" (SECTION 56-265.14 ET. SEQ., CODE OF VIRGINIA, 1950, AMENDED).
- D. ALL GRADE TRANSITIONS SHALL BE SMOOTH AND GRADUAL WITH NO SHARP OR ABRUPT CHANGES UNLESS OTHERWISE NOTED. SUBBASE DRAINAGE SHALL NOT BE RESTRICTED OR IMPEDED.
- E. ALL DISTURBED AND FINAL PAVED AREAS SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE.
- F. ALL PAVEMENT PATCHES AND REPLACEMENT CURB SHALL BE FLUSH WITH ABUTTING FACILITIES.
- G. SAWCUT PAVEMENT/SIDEWALKS FULL DEPTH ALONG STRAIGHT LINES PRIOR TO REMOVAL.
- H. RESTORE SURFACES DISTURBED DURING THE COURSE OF WORK TO MATCH EXISTING CONDITIONS.
- I. REFERENCE BENCHMARK DETAILS FOR HORIZONTAL AND VERTICAL DATUMS.
- J. REMOVE FREE WATER PRIOR TO STARTING FILL PLACEMENT.
- K. PLUG OR CAP ALL ENDS OR OPENINGS OF THE WATER MAIN BEING ABANDONED.
- L. PETROLEUM-CONTAMINATED SOIL OR GROUNDWATER ARE NOT ANTICIPATED ON THIS SITE, BUT IF ENCOUNTERED, COORDINATE DISPOSAL WITH NAVFAC MIDLANT ENVIRONMENTAL SERVICES (EV SERVICES) HAZMAT/WASTE DISPOSAL DEPARTMENT. ALL MATERIAL/WASTE TAKEN OFFSITE FOR DISPOSAL MUST HAVE A WASTE DETERMINATION PROFILE (BASED ON LABORATORY ANALYSIS) THAT HAS BEEN REVIEWED BY EV SERVICES HAZMAT/WASTE DISPOSAL.
- M. COORDINATE THE WORK OF ALL TRADE. VERIFY ALL FIELD CONDITIONS, QUANTITIES AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. REFER TO CIVIL PLANS SHEETS CD101 AND CS01 INFORMATION. ANY DISCREPANCY MUST BE PROMPTLY BROUGHT TO ATTENTION OF THE CONTRACTING OFFICER.
- N. PROVIDE ELECTROMAGNETIC INDUCTION (EM) USING EM31 AND EM61, AND GROUND PENETRATING RADAR (GPR) SURVEY WITHIN THE LIMITS OF THE PROJECT SITE IN COMPLIANCE UFC 1-300-09N, AND UFC 3-220-01. THIS SURVEY IS INTENDED TO IDENTIFY AND MITIGATE THE POTENTIAL IMPACTS TO THE PROPOSED PROJECT ACTIVITIES BY IDENTIFYING AND DOCUMENTING UNDERGROUND ACTIVE UTILITIES ENCOUNTERED WITHIN THE SEARCH AREA.
 - N.1 THE GEOPHYSICAL SURVEY TRAVERSES SHALL BE SPACED ON A TEN FOOT BY TEN-FOOT GRID OR SMALLER, UNLESS OTHERWISE APPROVED BY NAVFAC. ALL PROPOSED EXPLORATION METHODS AS WELL AS THE PROPOSED SPACING AND LAYOUT OF TRAVERSES SHALL BE REVIEWED WITH THE NAVFAC MIDLANT GEOTECHNICAL ENGINEER PRIOR TO CONDUCTING THE WORK.
 - N.2 THE GEOPHYSICAL SURVEY MUST BE CONDUCTED BY A REGISTERED GEOLOGIST, GEOSCIENTIST, OR PROFESSIONAL ENGINEER WITH AT LEAST FIVE (5) YEARS OF DEMONSTRATED EXPERIENCE WITH THESE GEOPHYSICAL SURVEY METHODS. THE SURVEY SHALL INCLUDE ALL NECESSARY GEOPHYSICAL EXPLORATION EQUIPMENT AND ANALYSIS NEEDED TO PROVIDE ACCURATE AND PERTINENT GEOPHYSICAL IMAGING AND INTERPRETATION TO BE INCLUDED AS REFERENCE INFORMATION WITHIN THE FUTURE PROJECT BID DOCUMENTS.



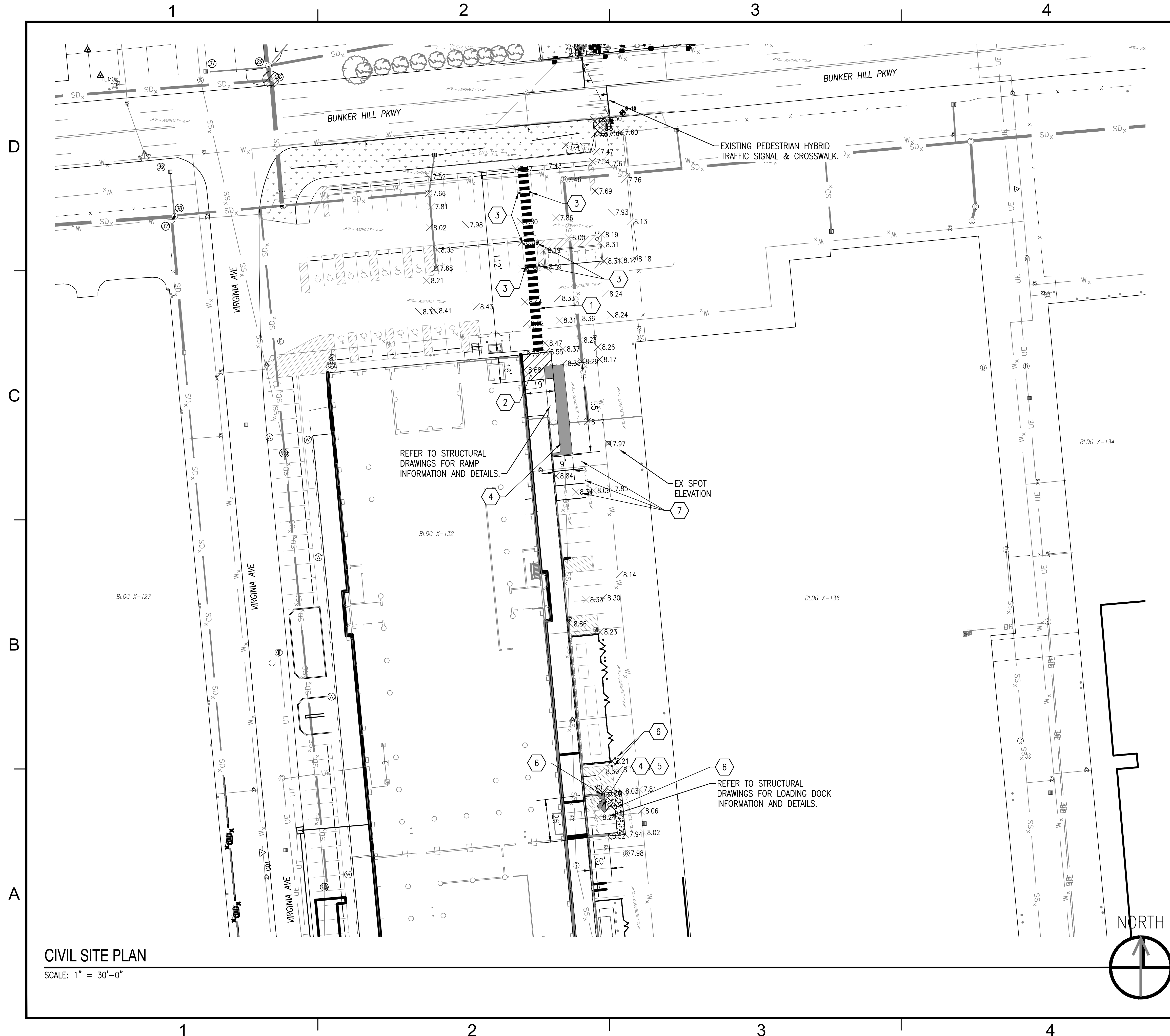
CIVIL ABBREVIATIONS

ABDN	ABANDON	INV	INVERT
AC	ACRE	IP	INLET PROTECTION
AFF	AQUEOUS FILM FORMING FOAM	LP	LIGHT POLE
APPROX	APPROXIMATE	MAX	MAXIMUM
ASPH	ASPHALT	MEG	MATCH EXISTING GRADE
AVE	AVENUE	MH	MANHOLE
A/C	ASBESTOS CEMENT	MIN	MINIMUM
AST	ABOVEGROUND STORAGE TANK	MON	MONITORING WELL
BC	BOTTOM OF CURB	(N.F.)	NOT FOUND
BOC	BACK OF CURB	NTS	NOT TO SCALE
BIT	BITUMINOUS	OE	OVERHEAD ELECTRIC
CB	CATCH BASIN	OP	OUTLET PROTECTION
CI	CURB INLET OR	ORN	ORNAMENTAL
CI	CAST IRON	OWWO	OILY-WASTE WASTE-OIL
CF	CUBIC FEET	PC	POINT OF CONNECTION
CL	CENTER LINE	PED.	PEDESTRIAN
CLF	CHAIN LINK FENCE	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PVMT	PAVEMENT
COMB.	COMBINATION	RAD	RADIUS
COMM	COMMUNICATION	RCP	REINFORCED CONCRETE PIPE
COND.	CONDUIT	RD	ROOF DRAIN
C/O	CLEAN OUT	REQ'D	REQUIRED
DCJ	DOWELED CONSTRUCTION JOINT	SS	SANITARY SEWER
DI	DROP INLET	SSCO	SANITARY SEWER CLEANOUT
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
DIA	DIAMETER	SCH	SCHEDULE
DS	DOWN SPOUT (STORMWATER)	SWM	STORM WATER MANAGEMENT
E	ELECTRICAL	SW	SWITCH PAD (ELECTRICAL)
ELEV	ELEVATION	STD.	STANDARD
EOP	EDGE OF PAVEMENT	STRC.	STRUCTURE
EQ.	EQUAL	S/W	SIDEWALK
ES	EMERGENCY SPILLWAY	TBM	TEMPORARY BENCH MARK
EX	EXISTING	TC	TOP OF CURB
FA	FIRE ALARM	TE	THICKENED-EDGE
FC	FACE OF CURB	TP	TREE PROTECTION
FDC	FIRE DEPARTMENT CONNECTION	TYP	TYPICAL
FF	FINISHED FLOOR	UG	UNDERGROUND
FG	FINISHED GRADE	UNK	UNKNOWN
FM	FORCE MAIN	UST	UNDERGROUND STORAGE TANK
GEN	GENERATOR	W	WATER
HDPE	HIGH DENSITY POLYETHYLENE	WV	WATER VALVE
HP	HIGH POINT	W/	WITH
HYD	HYDRANT	XFR	TRANSFORMER

CIVIL LEGEND

EXISTING	BITUMINOUS CONCRETE PAVEMENT
	BUILDING
	BOLLARD
	CONCRETE
	DEMOLITION
	LANDSCAPING AREA
	MAJOR CONTOUR
	MINOR CONTOUR
	CHAIN LINK FENCE
TBM XX 	TEMPORARY BENCH MARK (CONTROL POINTS)
	DROP INLET
AST 	ABOVE GROUND STORAGE TANK
KFR 	TRANSFORMER
S 	SANITARY MANHOLE
⊙ OR ⊗ 	STORM MANHOLE
V 	VALVE
U 	UTILITY POLE
* 	LIGHT POLE
FD 	FIRE HYDRANT
M 	METER
1111 	SPOT ELEVATION
W 	MONITORING WELL
	GUY WIRE
E 	ELECTRIC MANHOLE
CO 	SEWER CLEANOUT
T 	TELEPHONE MANHOLE
	MISCELLANEOUS SITE FEATURE / BOLLARD
	TREE / VEGETATION
	SIGN

[illegible]



GENERAL SHEET NOTES

- A. ALL WORK MUST BE IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS (RBS). SECTIONS NOTED ON DETAILS ARE REFERENCED FROM VDOT, RBS.
- B. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
- C. REFER TO STRUCTURAL SHEETS FOR RELATED INFORMATION AND DETAILS.
- D. ALL MATERIAL MUST BE SUBMITTED FOR GOVERNMENT APPROVAL.
- E. COORDINATE WITH THE ARCHITECTURE PLANS FOR LOCATION OF RAMP AND LOADING DOCK LOCATION.

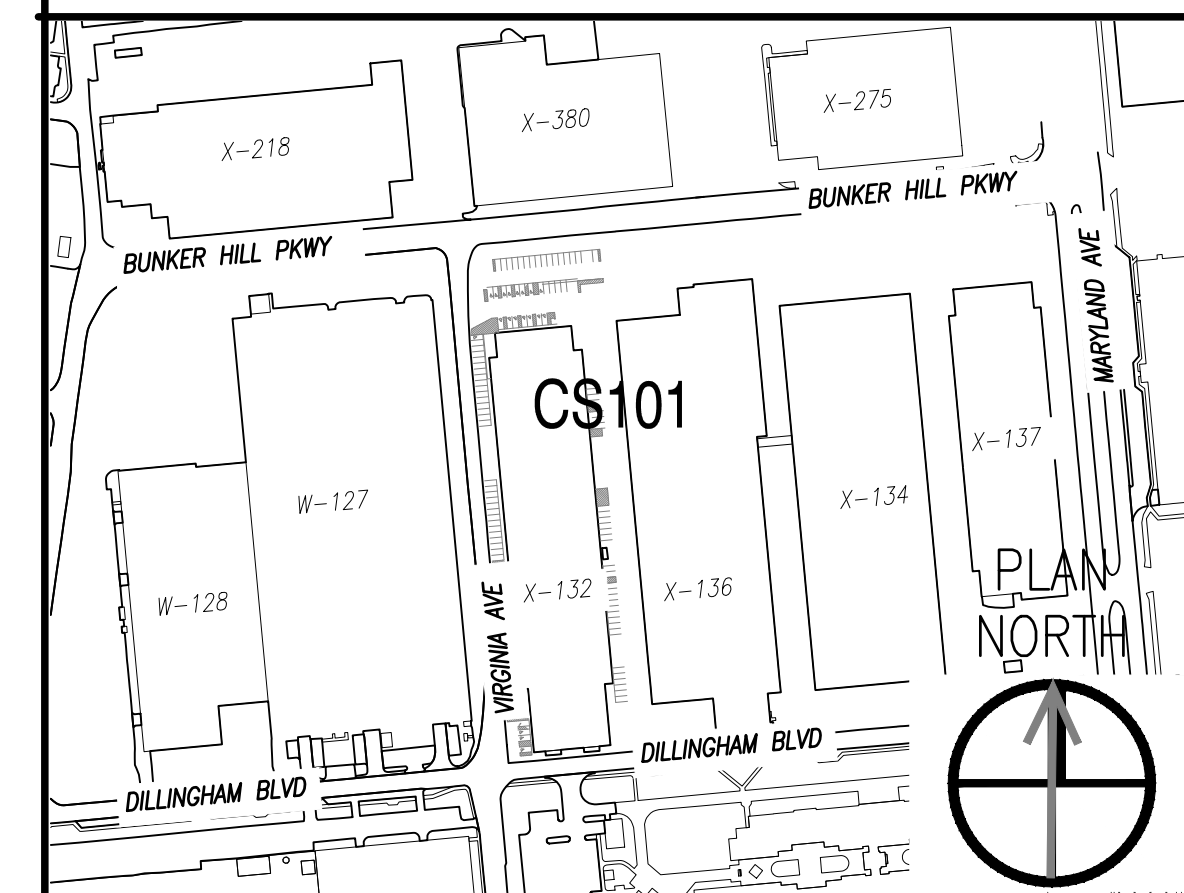
KEYNOTES

1. PROVIDE TYPICAL 6' WIDE CROSSWALK, REFER TO SHEET C-501 FOR DETAIL.
2. PROVIDE NO PARKING HATCHING, REFER TO SHEET C-501 FOR DETAILS.
3. PROVIDE TYPICAL BOLLARD, REFER TO SHEET C-501 FOR DETAIL.
4. PROVIDE FULL DEPTH BITUMINOUS CONCRETE REPAIR PATCH AS NEEDED. MATCH TO EXISTING GRADE. REFER TO SHEET C-502 FOR DETAILS.
5. PROVIDE FULL DEPTH CONCRETE REPAIR AS NEEDED. MATCH TO EXISTING GRADE. REFER TO SHEET C-502 FOR DETAILS AND A PARTIAL PLAN VIEW.
6. REFER TO ARCHITECTURE AND STRUCTURAL PLANS FOR PLACEMENT AND DETAILS FOR THESE BOLLARDS.
7. PROVIDE TYPICAL PARKING STALL, REFER TO SHEET C-501 FOR DETAIL.

[illegible]

A/E INFO			
 COMMANDER NAVFAC <u>7-20-76</u>			
Approved by Ron Couture, Program Manager, with MSC, via Email.			
FACTORY TO DATE 07/14/2026			
CEV	DRW	CEV	CHK WHW
DAS/SAR			
CH MANAGER W. WHITHAM, P.E.			
ENG/ARCH J. MILLER, PE			
PROTECTION HPN			

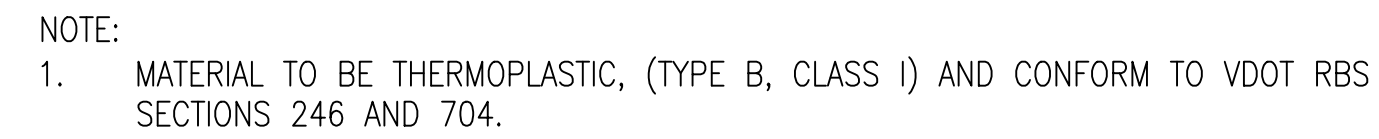
KEY MAP



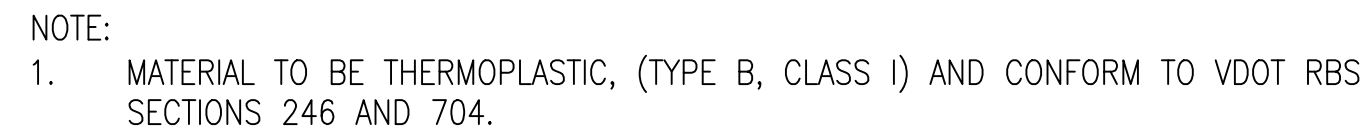
GRAPHIC SCALE



BUILDING X-132 ENTRANCE AT NORTH EAST LOADING DOCK		NORFOLK VIRGINIA NAVAL STATION - NORFOLK, VA	
NAVAL STATION CIVIL SITE PLAN			
AS NOTED 1845266			
N/A 12,950,954			
7 OF 69			
CS101			



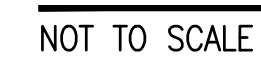
NOT TO SCALE



NOT TO SCALE



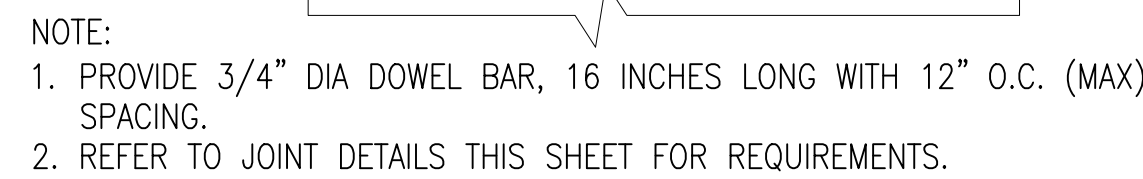
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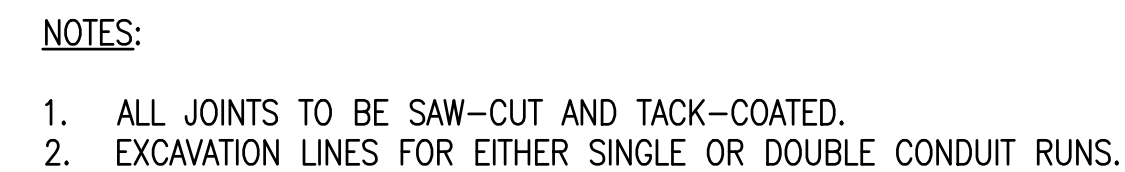
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NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



A1

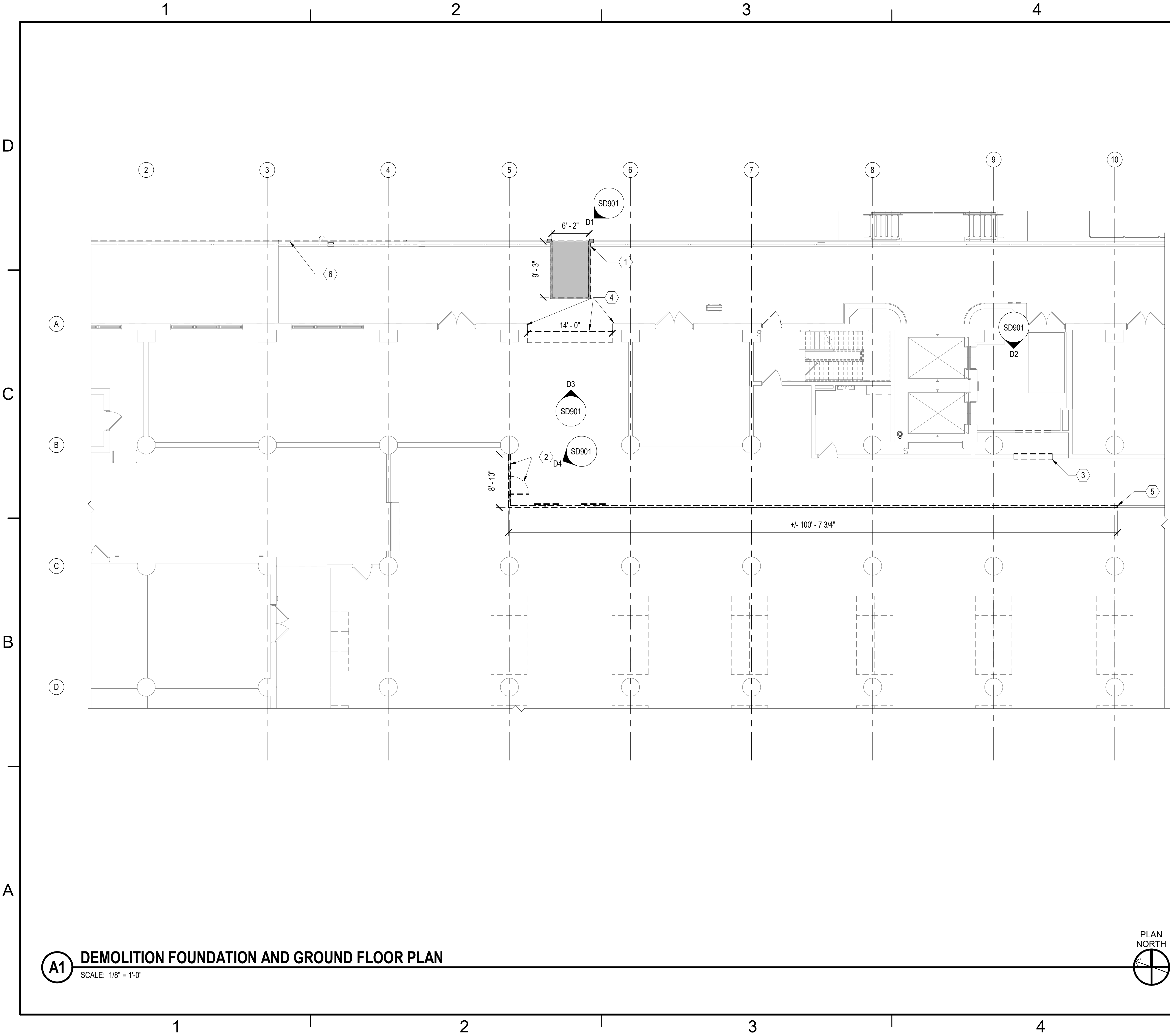
NOT TO SCALE



SCALE 1"=5'-0"

DRAWFORM REVISION: 14 SEP 2023

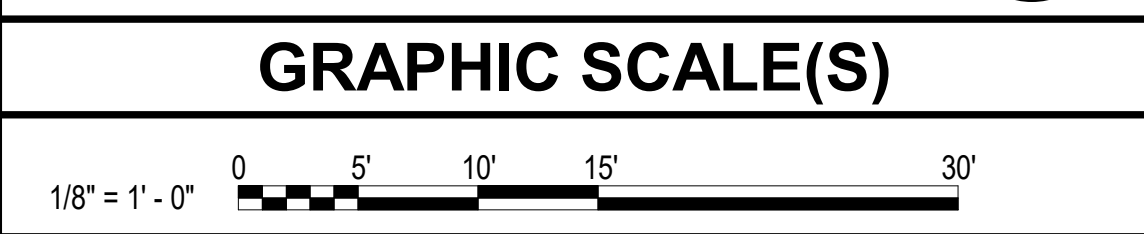
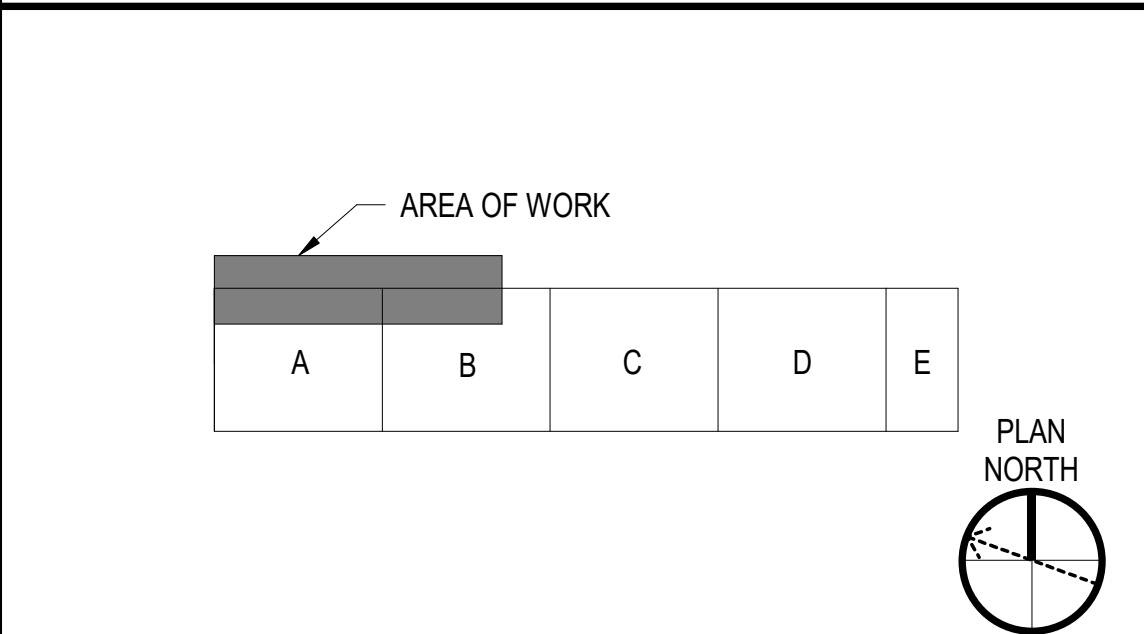
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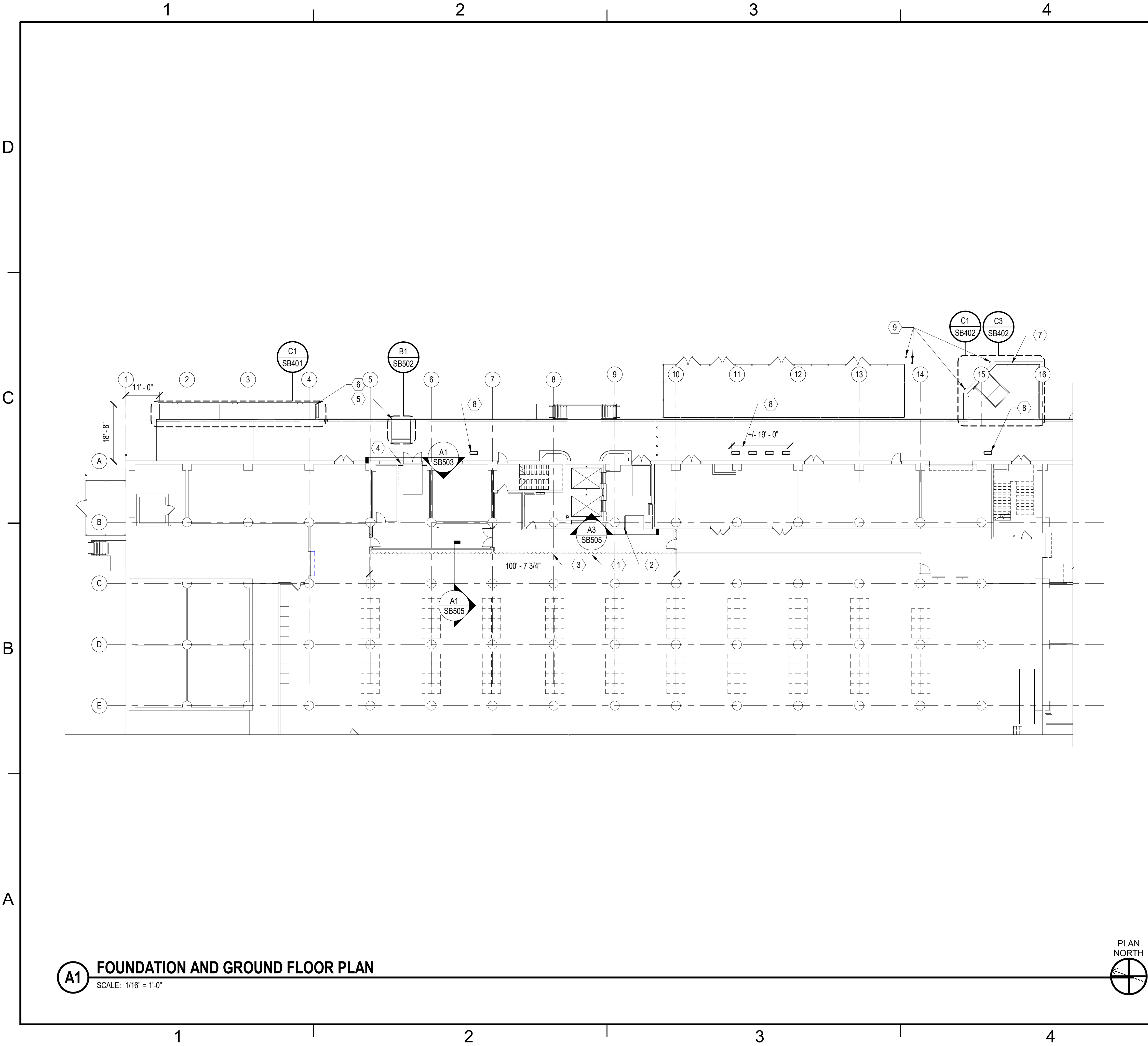
- ### GENERAL SHEET NOTES
- A REFER TO S-001 AND S-002 FOR GENERAL NOTES AND PLAN LEGEND.
- B REFER TO SD901 FOR STRUCTURAL DEMOLITION PHOTOS.
- C ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE RELATIVE TO A REFERENCE ELEVATION OF 0'-0" THAT CORRESPONDS TO A FINISHED FIRST FLOOR ELEVATION.

- ### KEYNOTES
- 1 DEMO EXIST HYDRAULIC RAMP LEVELER, BUMPERS, AND ANGLES, COMPLETE.
- 2 DEMO EXIST CHAIN LINK FENCE AND DOOR COMPLETE. FOR EXTENTS, SEE ARCH DWGS.
- 3 SAWCUT AND DEMO EXIST CMU WALL. SEE ARCH DWGS FOR SIZE AND LOCATION.
- 4 DEMO EXIST ROLL UP DOOR, COMPLETE INCLUDING ANGLE CORNER GUARDS EMBEDDED IN CONCRETE WALL.
- 5 DEMO EXIST CHAIN LINK FENCE AND DOOR COMPLETE TO THE NEAREST POST. POST TO REMAIN FOR EXTENTS, SEE ARCH DWGS.
- 6 SAWCUT AND DEMO EXISTING CHANNEL AND CONCRETE LIP AT DOCK EDGE, FULL LENGTH OF NEW RAMP. FOR BIDDING PURPOSES USE 52'.

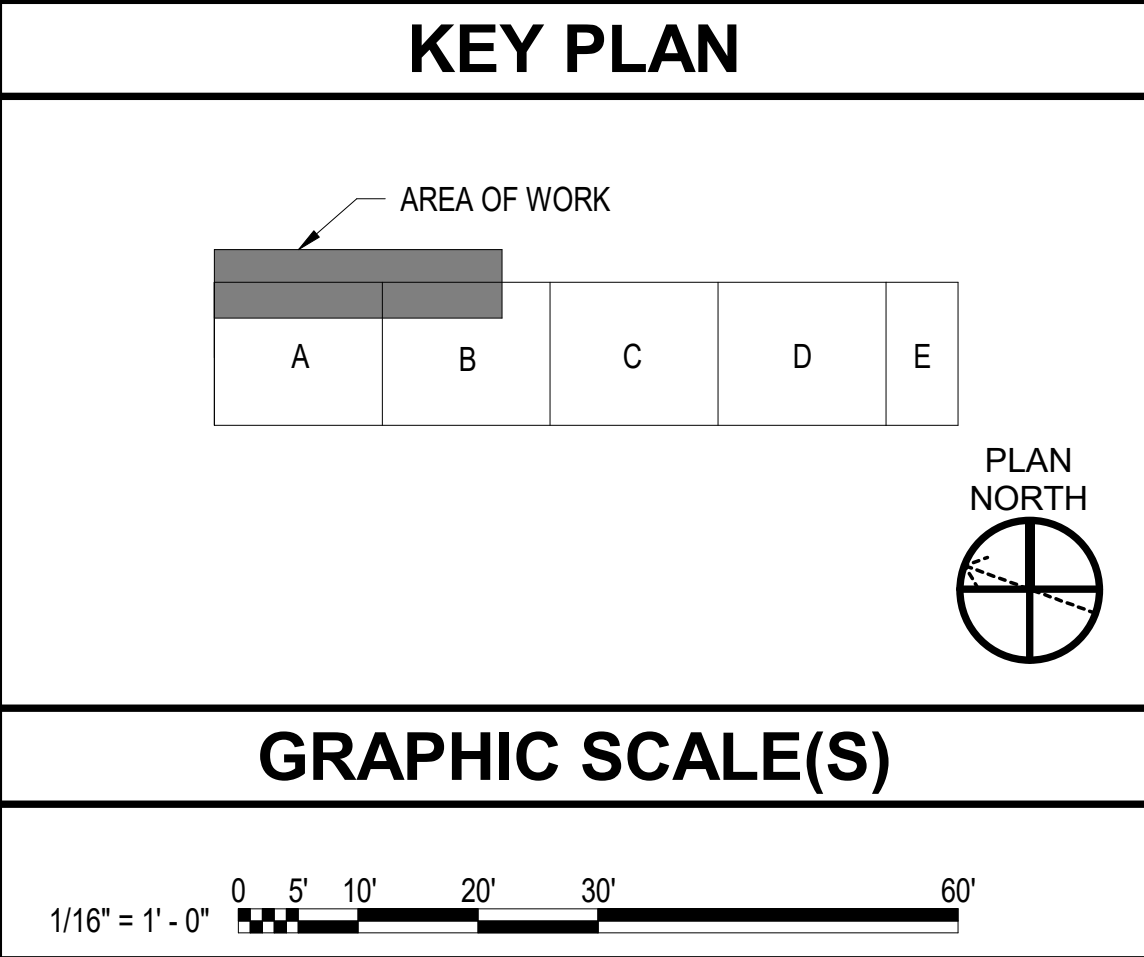
KEY PLAN



DATE	
DESCRIPTION	
MARK	
SEAL	
A/E INFO	
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FOR COMMANDER NAVFAC	
ACTIVITY	Approved by Ron Couture, Program Manager, with MSC, via Email.
SATISFACTORY TO DATE	07/14/2026
DES CAH	DRW CAH
CHK ADB	
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BRANCH MANAGER	JMS
CHIEF ENGINEER	J. MILLER, PE
FIRE PROTECTION	HPN
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	NAVAL STATION - NORFOLK, VA
MID-ATLANTIC - ROICC NORFOLK	NORFOLK, VIRGINIA
NAVAL STATION	BUILDING X-132
	ENTRANCE AT NORTHEAST LOADING DOCK
	DEMOLITION FOUNDATION AND GROUND FLOOR PLAN
SCALE:	AS NOTED
PROJECT NO.	1845266
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12.950.959
SHEET	12 OF 69
SD101	
DRAWING REVISION: 14 SEP 2023	



- ### GENERAL SHEET NOTES
- A REFER TO S-001 AND S-002 FOR GENERAL NOTES AND PLAN LEGEND
- B ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE RELATIVE TO A REFERENCE ELEVATION OF 0' - 0" AT FINISH FIRST FLOOR
- ### KEYNOTES
- 1 PROVIDE FULLY GROUTED, REINFORCED, 8" CMU WALL 8' - 0" HEIGHT. SEE A1/SB505 FOR DETAILS.
- 2 CMU OPENING W/ PRECAST LINTEL, SEE A3/SB505
- 3 METAL STUD WALL, SEE ARCH DRAWING AE601/A2 FOR DETAILS.
- 4 PROVIDE CONCRETE INFILL AT OH DOOR OPENING. SEE A1/SB503
- 5 PROVIDE CONCRETE INFILL AT DOCK LEVELER OPENING.
- 6 PROVIDE CONCRETE RAMP. SEE SB401 FOR DETAILS.
- 7 PROVIDE CONCRETE DOCK, AND DOCK LEVELER. SEE SB402 FOR DETAILS.
- 8 PROVIDE CEILING SUPPORT W/ STRUT CHANNELS, HOT DIP GALVANIZED, HUNG FROM EXISTING CONCRETE OVERHANG, ABOVE EXISTING LOCATION, SEE DETAIL A2/SB506.
- 9 6" BOLLARD, SEE SB506/A3 FOR BOLLARD DETAIL AND ARCH DETAIL AE102/A3 FOR LOCATION.



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NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	NAVAL STATION - NORFOLK, VA
MIDLANT - ROICC NORFOLK	NORFOLK, VIRGINIA
NAVAL STATION	BUILDING X-132
	ENTRANCE AT NORTHEAST LOADING DOCK
	FOUNDATION AND GROUND FLOOR PLAN
SCALE:	AS NOTED
PROJECT NO.	1845266
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,950,961
SHEET	14 OF 69
SB101	
DRAWING REVISION: 14 SEP 2023	

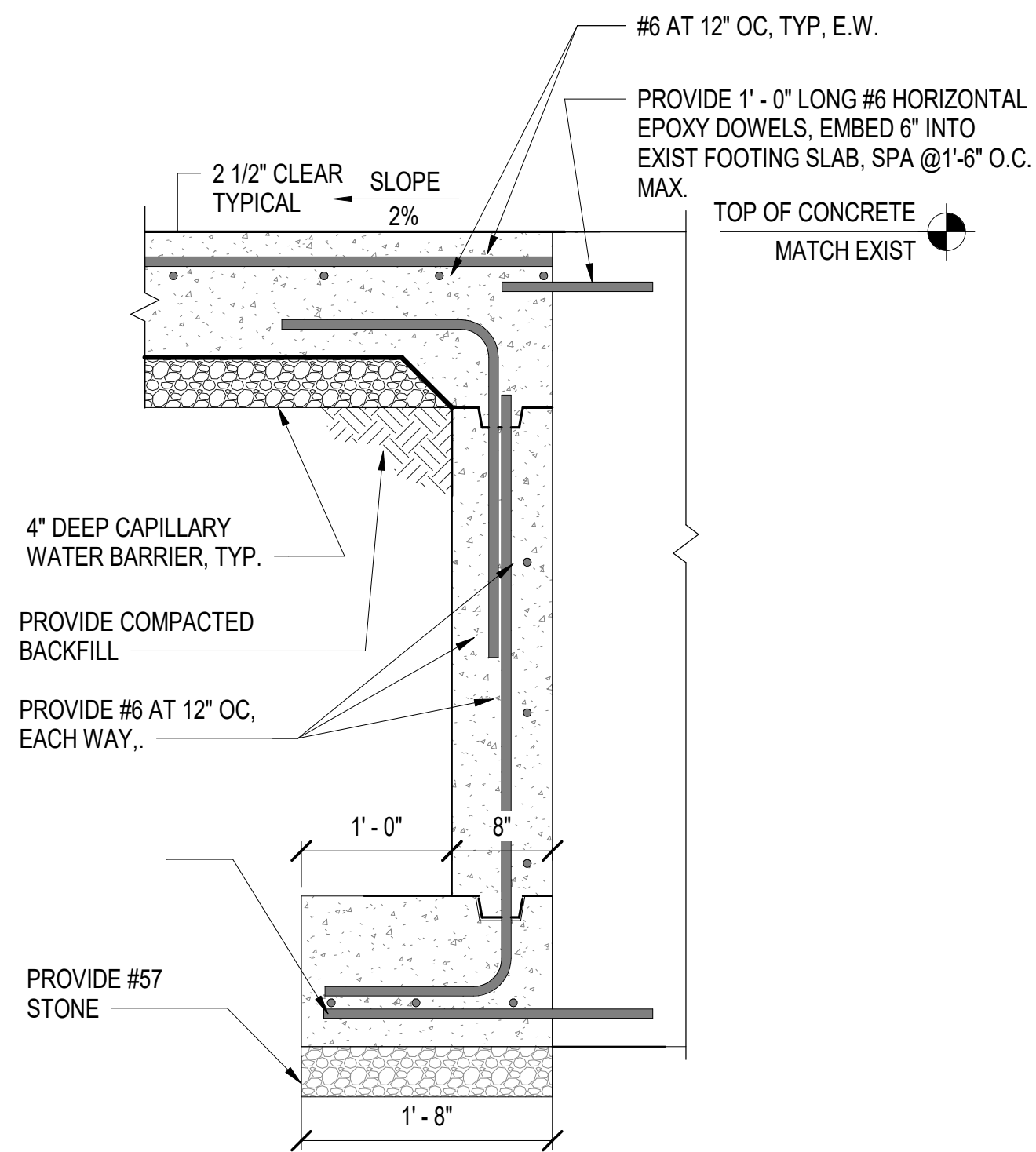
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2

3

4

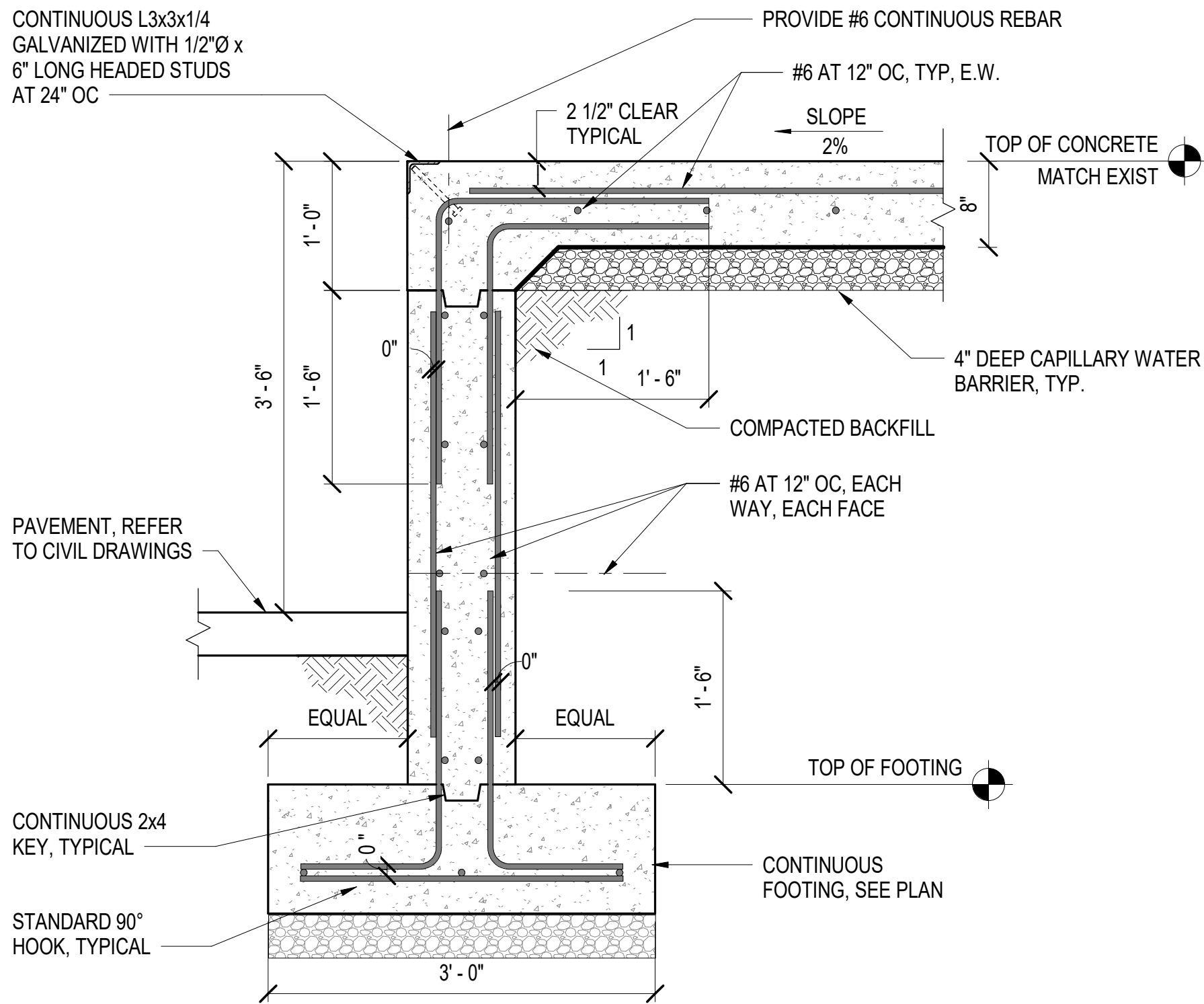
5



C1
SB402

C1 DETAIL - LOADING DOCK EXTENSION WALL AT EXISTING.

SCALE: 1" = 1'-0"



C3
SB402

A1 DETAIL - LOADING DOCK EXTENSION, TYP.

SCALE: 1" = 1'-0"

ASPHALT, COORD W/ CIVIL
DWGS FOR ELEVATION.

COORD W/ LEVELER MFR.

VARIES

2' - 0"

10"

SLOPE
2%

#6 AT 6" O.C., E.W., TYP

10"

2' - 5"

1' - 1"

10"

1' - 1"

4"

1' - 0"

3"

10"

CONTINUOUS L3x3x1/4
GALVANIZED WITH 1/2"Ø x
6" LONG HEADED STUDS
AT 24" O.C.

PROVIDE #6 REBAR CONTINUOUS

#6 AT 12" OC, TYP, E.W.

T.O. LOADING DOCK
-0' - 1"

4" DEEP CAPILLARY
WATER BARRIER, TYP.

COMPACTED BACKFILL

CONTINUOUS 2x4
KEY, TYPICAL

FINISH GRADE
-3' - 1"

#6 STANDARD 90°
HOOK, AT 12",
TYPICAL

T.O. FOOTING
-4' - 4 1/2"

(4) #6 CONT (LONG)
#4 @ 18" O.C.

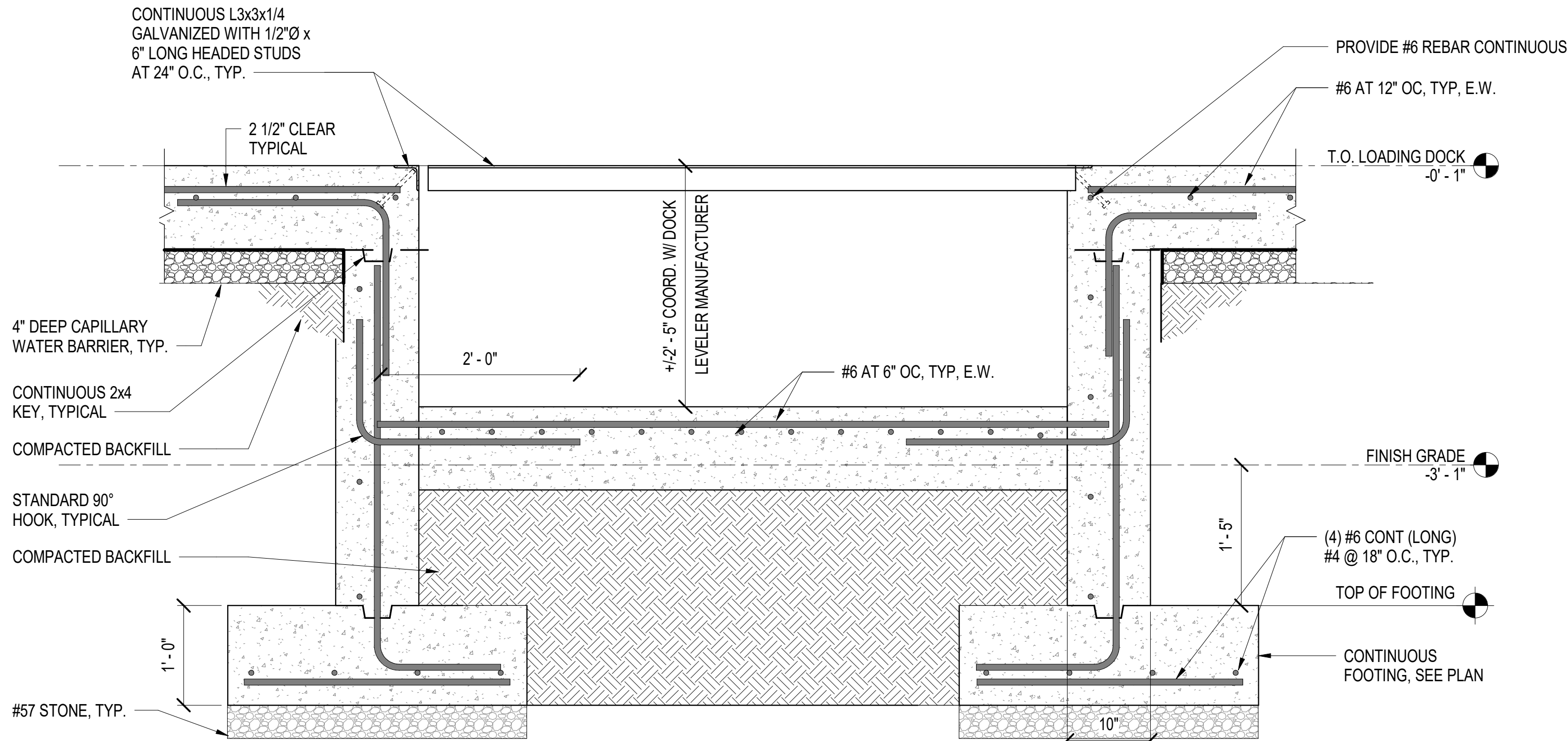
CONTINUOUS
FOOTING, SEE PLAN

PROVIDE #57
STONE

C1
SB402

C3 SECTION - LONGITUD. LEVELER AT DOCK EXTENSION

SCALE: 1" = 1'-0"



C1
SB402

A3 SECTION - LEVELER AT DOCK EXTENSION

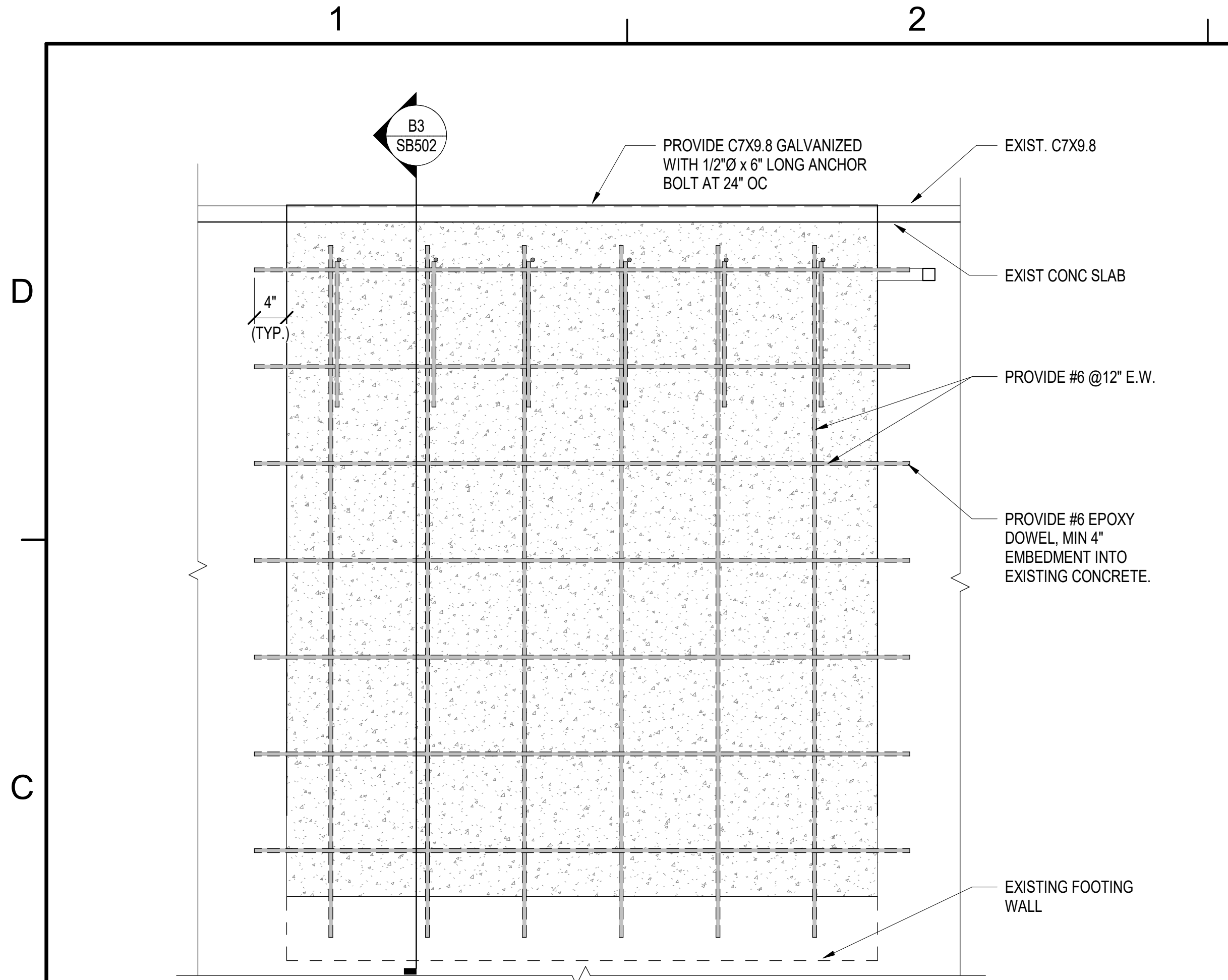
SCALE: 1" = 1'-0"

GRAPHIC SCALE(S)

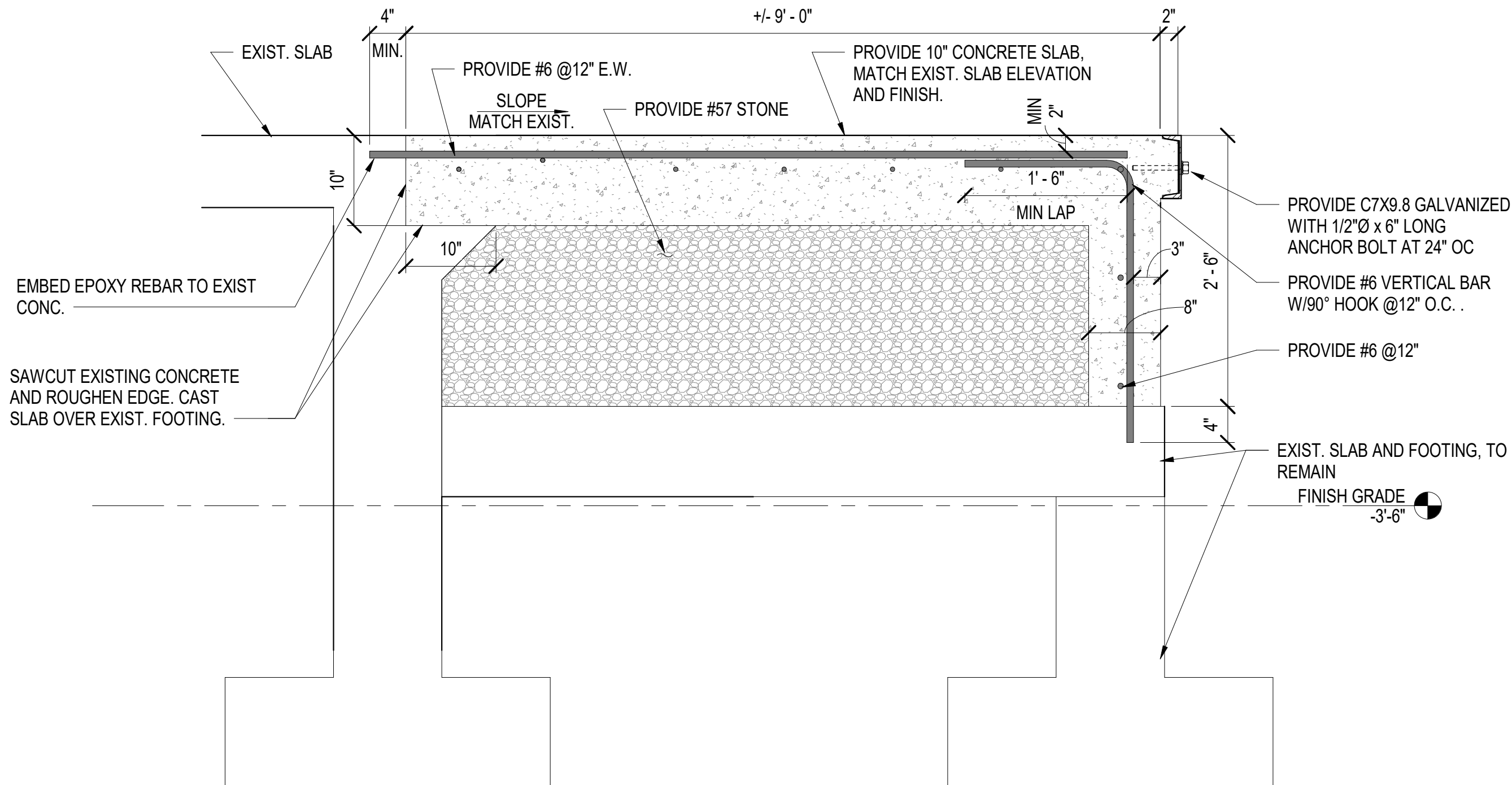
1" = 1' - 0"

0' 6" 1' 2'

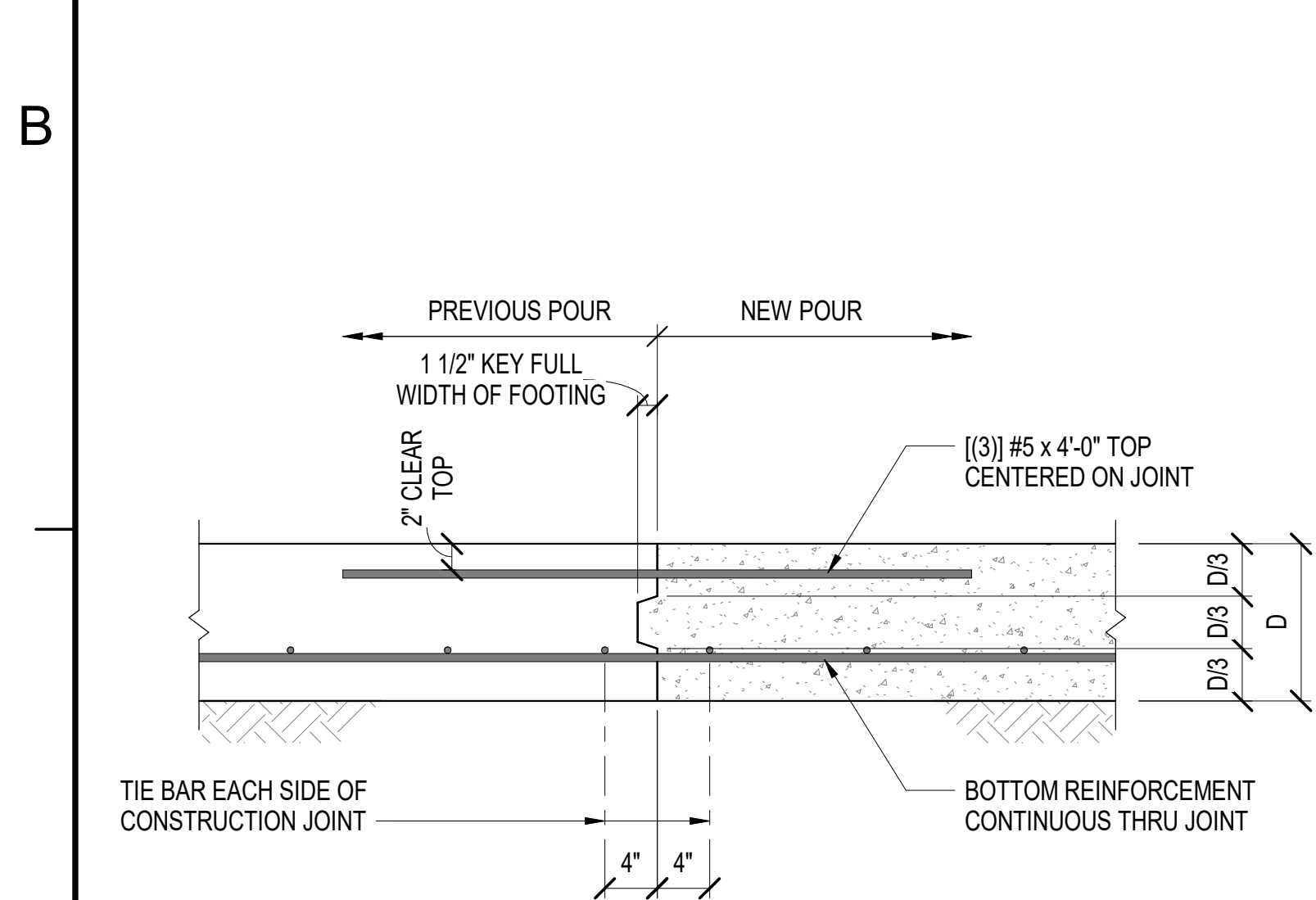
DATE	
MARK	DESCRIPTION
SEAL	
A/E INFO	
APPROVED	<i>[Signature]</i>
FOR COMMANDER NAVFAC	7-20-22
ACTIVITY	Approved by Ron Couture, Program Manager, with MSC, via Email.
SATISFACTORY TO DATE	07/14/2026
DES CAH	DRW CAH
PMIDM	DAS/SAR
BRANCH MANAGER	JMS
CHIEF ENGINEER	J. MILLER, PE
FIRE PROTECTION	HPN
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	NORFOLK, VIRGINIA
MID-ATLANTIC - ROICC NORFOLK	NORFOLK, VIRGINIA
NAVAL STATION	BUILDING X-132
	ENTRANCE AT NORTHEAST LOADING DOCK
	LOADING DOCK EXTENSION - DETAILS
SCALE:	AS NOTED
PROJECT NO.	1845266
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12.950.964
SHEET	17 OF 69
SB501	
DRAWING REVISION: 14 SEP 2023	



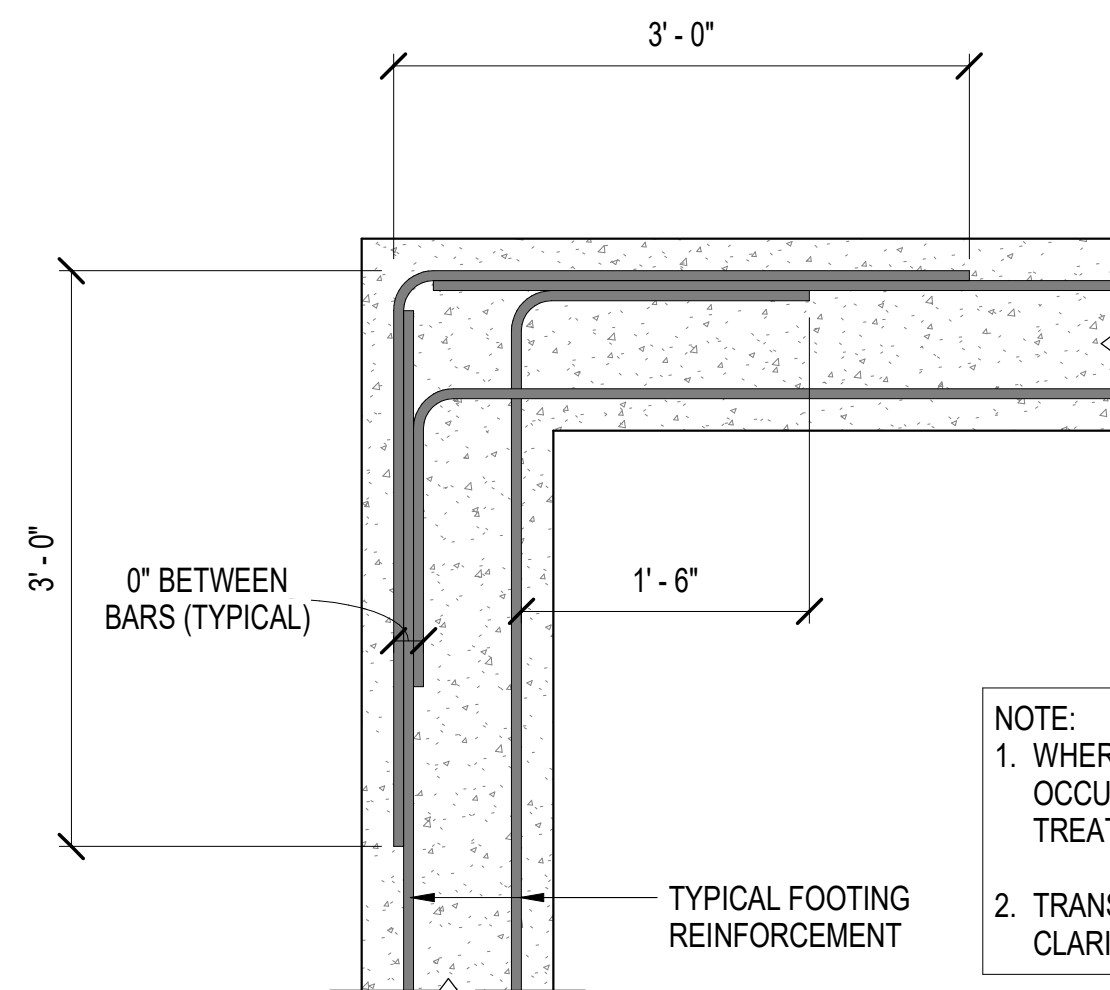
B1 PLAN - EXIST. DOCK LEVELER INFILL
SCALE: 1" = 1'-0"



B3 SECTION - EXIST DOCK LEVELER INFILL
SCALE: 1" = 1'-0"

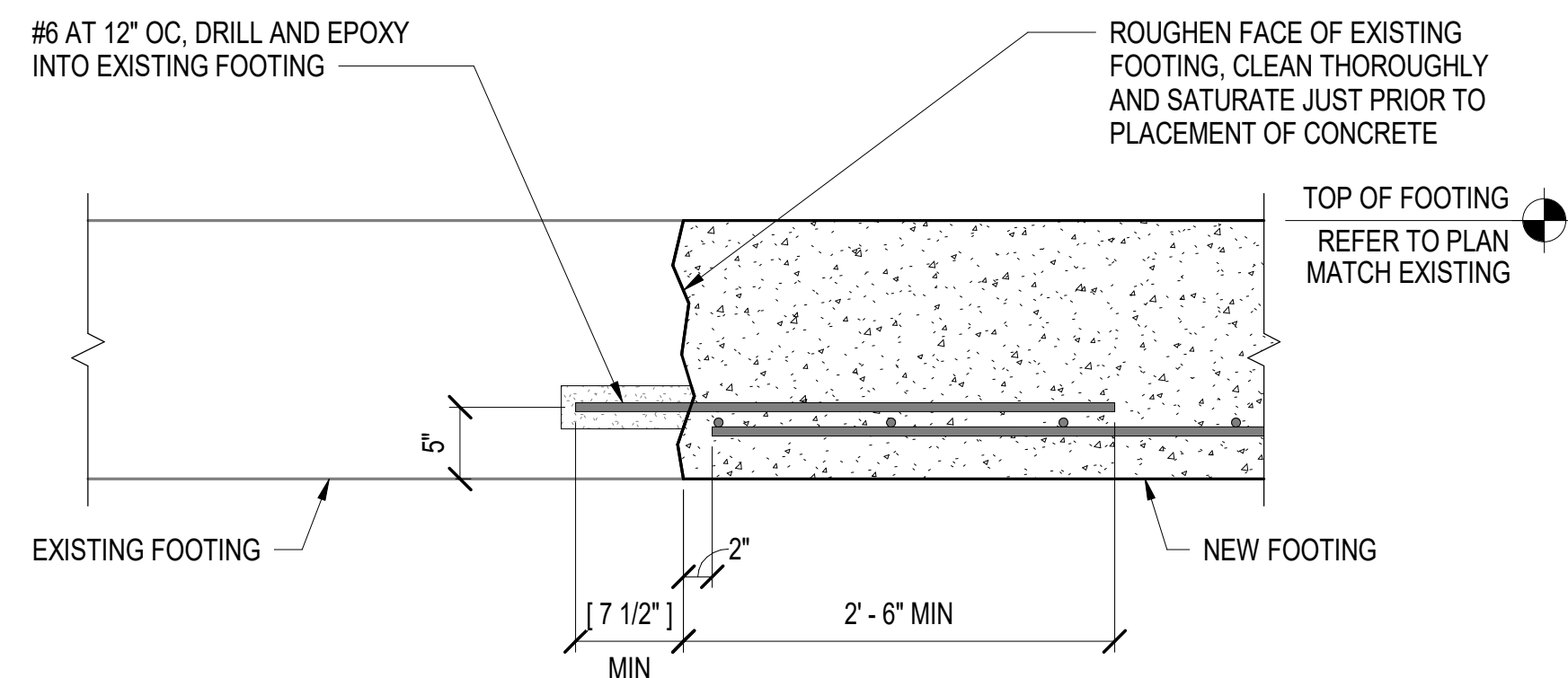


CONTINUOUS FOOTING CONSTRUCTION JOINT



NOTE:
1. WHERE THREE OR MORE BARS OCCUR, MIDDLE BAR(S) MUST BE TREATED AS INNER FACE BAR.
2. TRANSVERSE BARS NOT SHOWN FOR CLARITY.

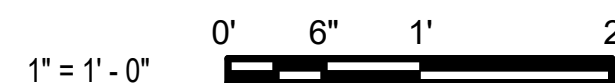
CONTINUOUS FOOTING REINFORCEMENT



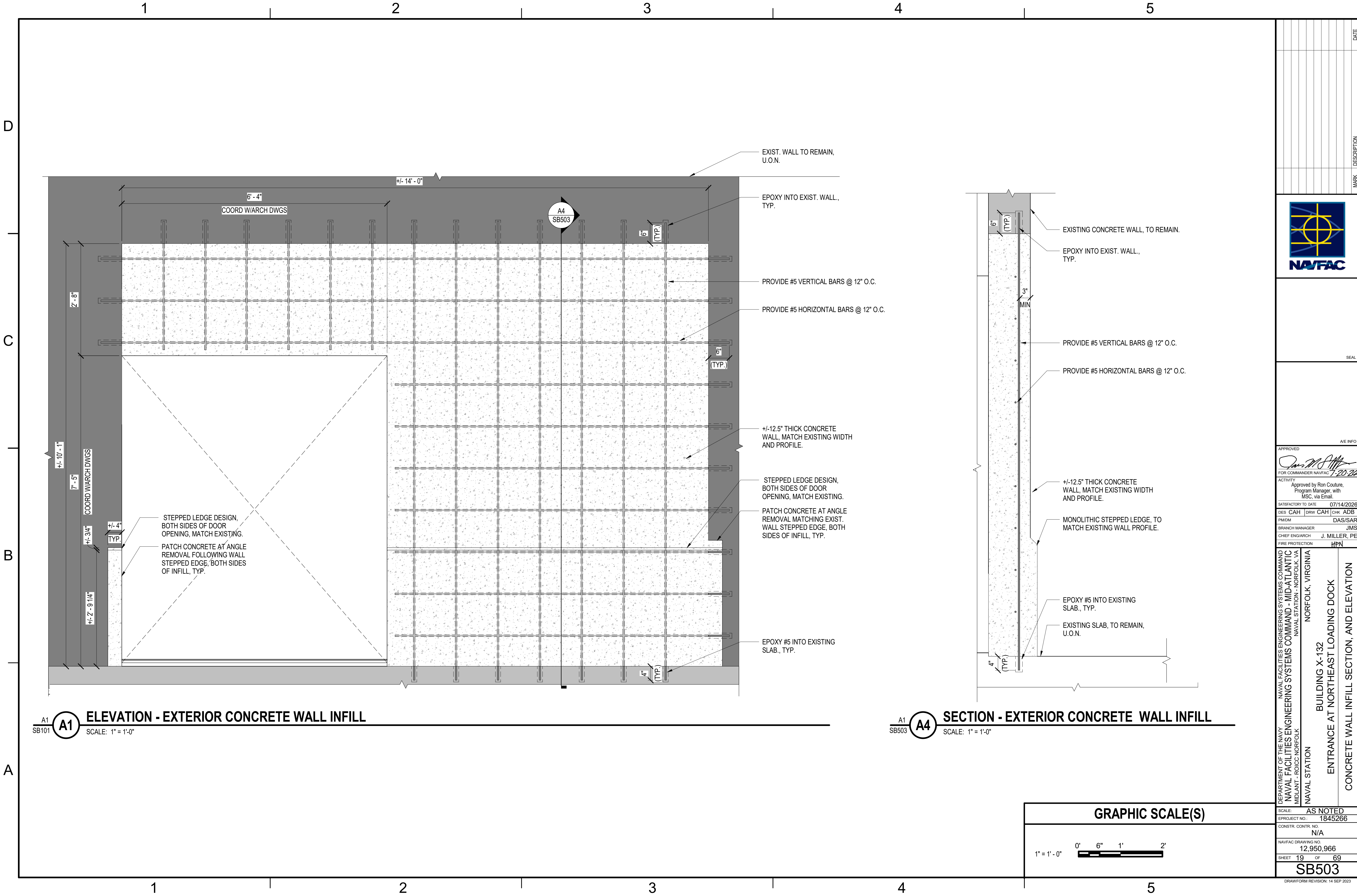
A4 TYPICAL NEW TO EXISTING FOOTING CONNECTION
SCALE: 1" = 1'-0"

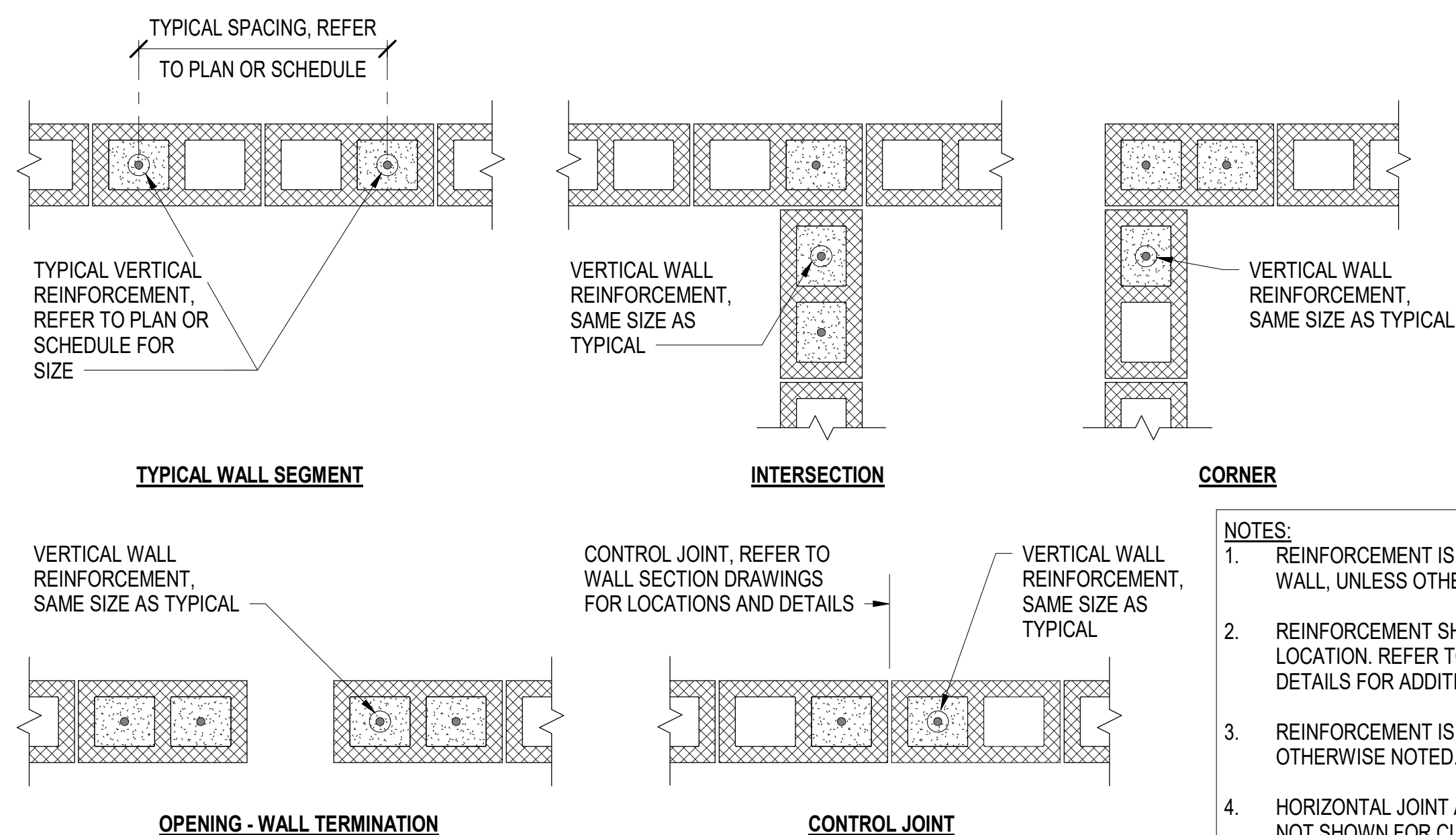
A1 TYPICAL FOOTING DETAILS
SCALE: 1" = 1'-0"

GRAPHIC SCALE(S)



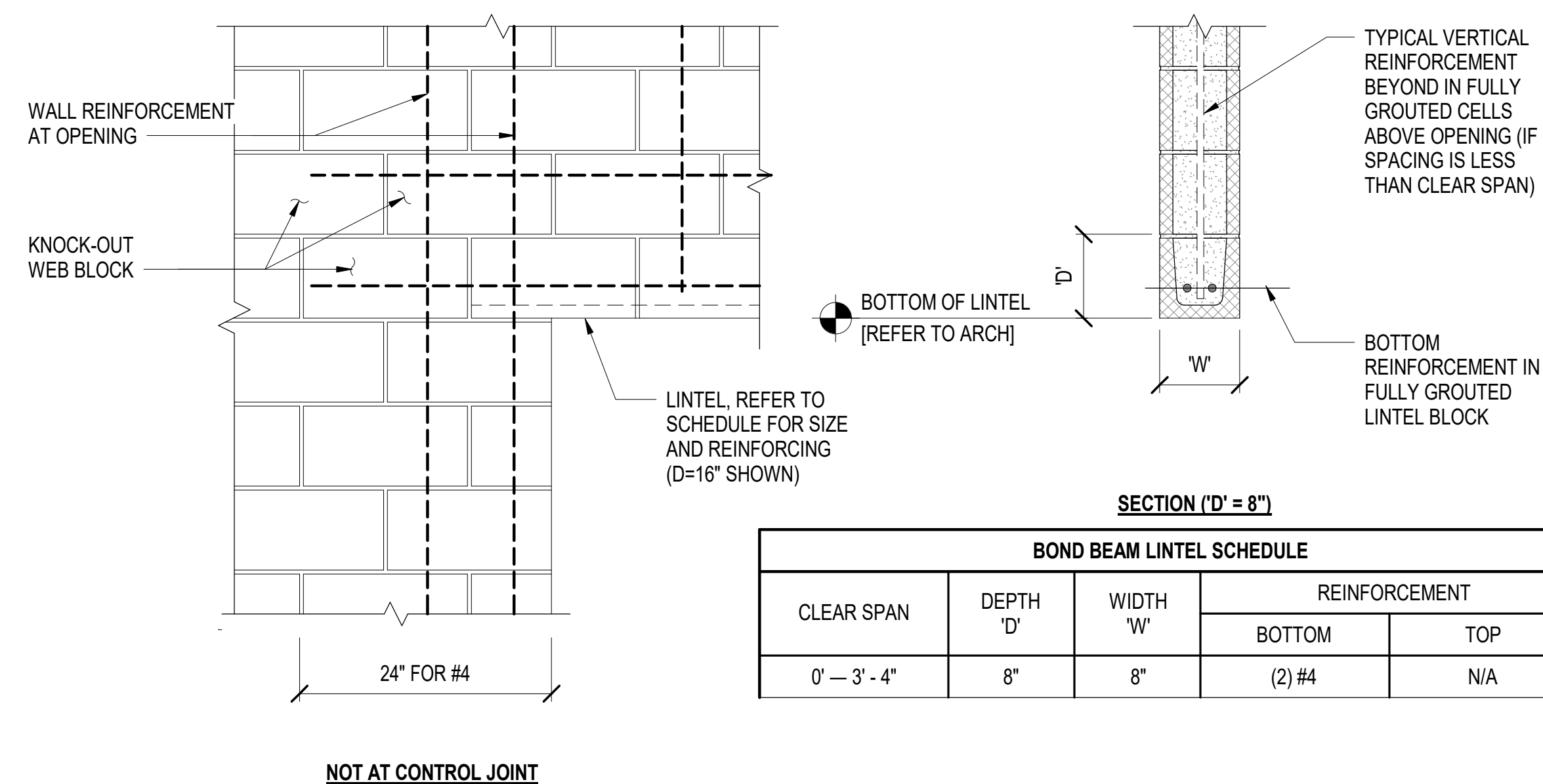
DATE	
DESCRIPTION	
MARK	
SEAL	
A/E INFO	
APPROVED FOR COMMANDER NAVFAC 7-20-26	
ACTIVITY Approved by Ron Couture, Program Manager, with MSC, via Email.	
SATISFACTORY TO DATE 07/14/2026 DES CAH DRW CAH CHK ADB	
PMDM DAS/SAR	
BRANCH MANAGER JMS	
CHIEF ENGINEER J. MILLER, PE	
FIRE PROTECTION HPN	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDLANT - ROICC NORFOLK NAVAL STATION	NORFOLK, VIRGINIA BUILDING X-132 ENTRANCE AT NORTHEAST LOADING DOCK INFILL DOCK LEVELER PLAN AND SECTION, TYPICAL FOOTING DETAILS
SCALE: AS NOTED EPROJECT NO.: 1845266 CONSTR. CONTR. NO. N/A NAVFAC DRAWING NO. 12.950.965 SHEET 18 OF 69 SB502	
DRAWING REVISION: 14 SEP 2023	





A1 **TYPICAL CONCRETE MASONRY WALL VERTICAL REINFORCEMENT**
SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



A3 TYPICAL CONCRETE MASONRY BOND BEAM LINTEL
SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"

MASONRY WALL REINFORCING SCHEDULE			
WALL MARK	NOMINAL BLOCK SIZE	REINFORCING	
		VERTICAL	HORIZONTAL
W1	8"	#4 @ 48" OC	CONTINUOUS BOND BEAMS @ TOP AND BOTTOM REINFORCE WITH {2}-#4

GRAPHIC SCALE(S)

1" = 1' - 0"



A horizontal graphic scale bar with four segments. Above the bar, the labels 0', 6", 1', and 2' are positioned at the start of each segment. The bar is divided into three equal parts, with the first part labeled 0' to 6", the second 6" to 1', and the third 1' to 2'.

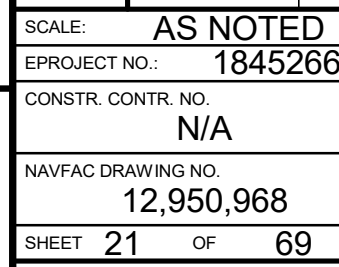
SCALE:	AS NOTED
EPROJECT NO.:	1845266
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,950,967
SHEET	20 OF 60



SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

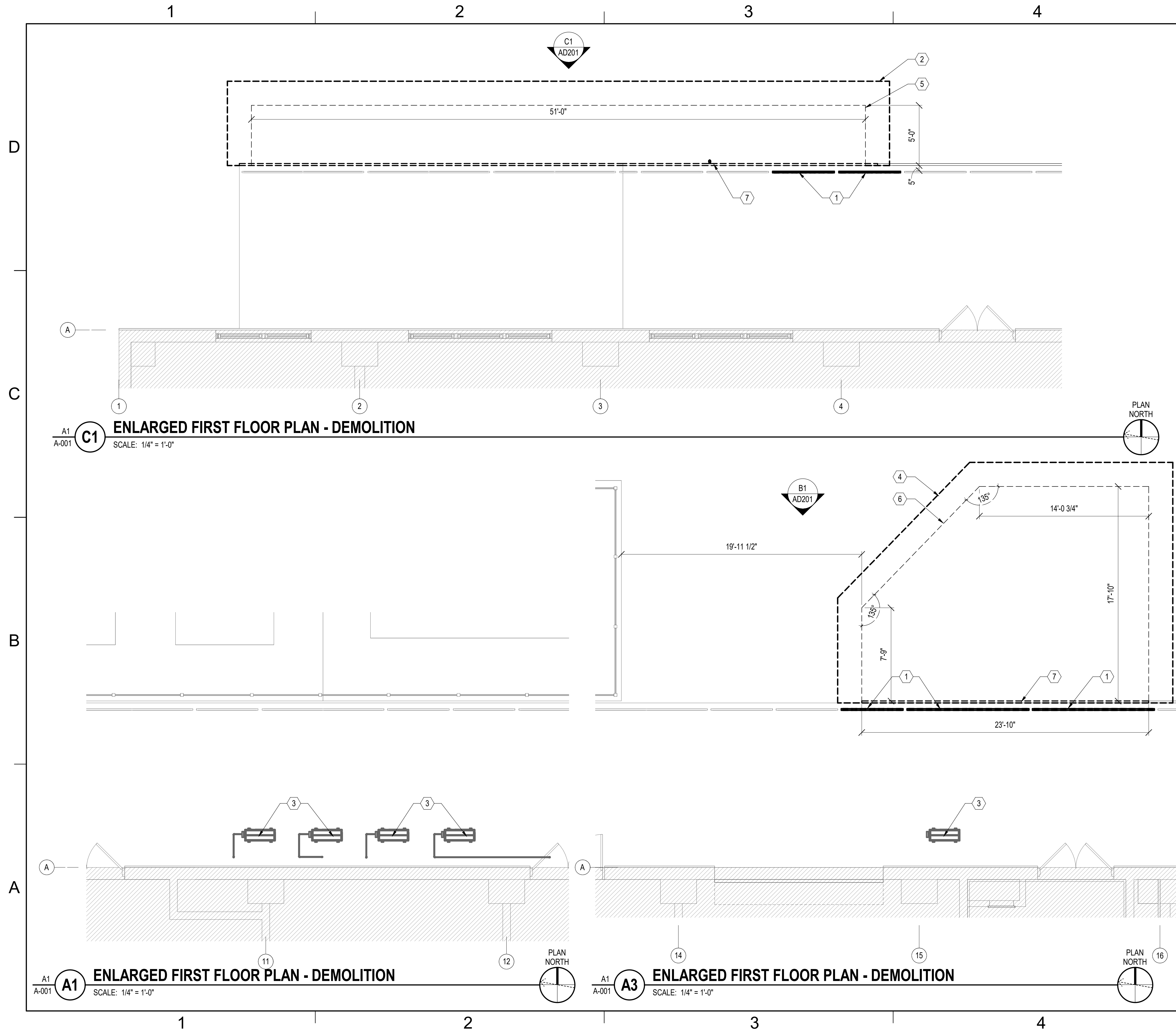


SEAL

A/E INFO

APPROVED			
 FOR COMMANDER NAVFAC 7-20-26			
ACTIVITY			
Approved by Ron Couture, Program Manager at MSC, via Email.			
SATISFACTORY TO DATE		07/14/2026	
DES CAH	DRW CAH	CHK	ADB
PM/DM		DAS/SAR	
BRANCH MANAGER		JMS	
CHIEF ENG/ARCH		J. MILLER, PE	
FIRE PROTECTION		HPN	

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDLANT - ROICC NORFOLK NAVAL STATION - NORFOLK, VA NORFOLK, VIRGINIA	BUILDING X-132 ENTRANCE AT NORTHEAST LOADING DOCK MASONRY DETAILS
--	---



GENERAL SHEET NOTES

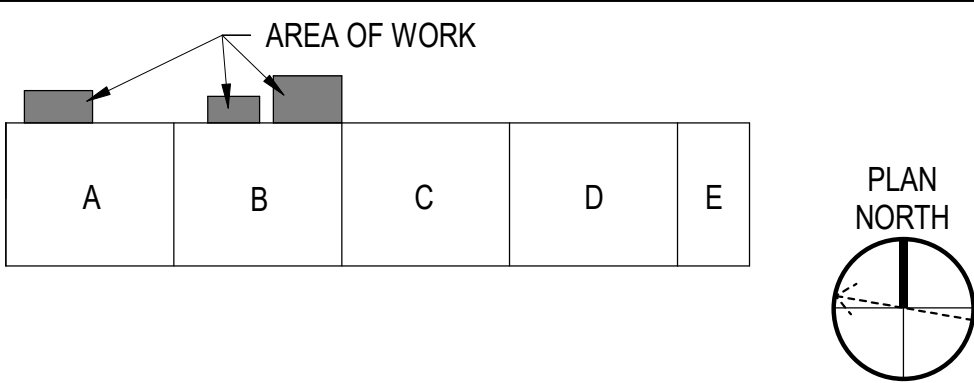
- A. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL ARCHITECTURAL NOTES.
- B. THE WORK INCLUDES THE DEMOLITION AND REMOVAL OF ALL CONSTRUCTION INDICATED, NOTED, OR NECESSARY TO ACCOMPLISH THE WORK AS INDICATED OR SPECIFIED. IT IS THE GENERAL INTENT OF THE DEMOLITION WORK TO COMPLETELY REMOVE ALL ITEMS OF EXISTING CONSTRUCTION, WHERE NOTED OR INDICATED ON THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: ANCHORS, FASTENERS, BRACKETS, CLIPS, RODS, HANGERS, AND SUPPORTS COMPLETE.
- C. EXISTING DIMENSIONS ARE BASED ON EXISTING DRAWINGS AND FIELD WORK. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY WORK.
- D. DEMOLITION OF CIVIL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, ELECTRICAL, AND TELECOMMUNICATION ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS IS NOT INTENDED TO INCLUDE ALL NECESSARY DEMOLITION WORK FOR THESE ITEMS. REFER TO INTERIOR DESIGN, FIRE PROTECTION, MECHANICAL, ELECTRICAL, AND TELECOMMUNICATION DRAWINGS FOR ADDITIONAL INFORMATION.



(THIS SHEET ONLY) **KEYNOTES**

- 1 DEMOLISH EXISTING REMOVABLE GUARDRAILS COMPLETE. PREPARE GUARDRAIL PIPE HOLES FOR INFILL WORK.
- 2 DEMOLISH EXISTING ASPHALT AND CONCRETE CONSTRUCTION AS REQUIRED FOR CONSTRUCTION OF ACCESSIBLE RAMP. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 DISCONNECT AND SALVAGE EXISTING MINI SPLIT OUTDOOR UNIT AND PREPARE FOR RELOCATION. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS.
- 4 DEMOLISH EXISTING ASPHALT AND CONCRETE CONSTRUCTION AS REQUIRED FOR CONSTRUCTION OF LOADING DOCK PLATFORM. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 EXTENTS OF ACCESSIBLE RAMP. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 EXTENTS OF LOADING DOCK PLATFORM SUBSTRUCTURE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 7 DEMOLISH EXISTING CONCRETE RAMP EDGE COMPLETE TO EXTENTS SHOWN.

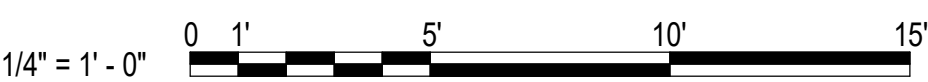
KEY PLAN

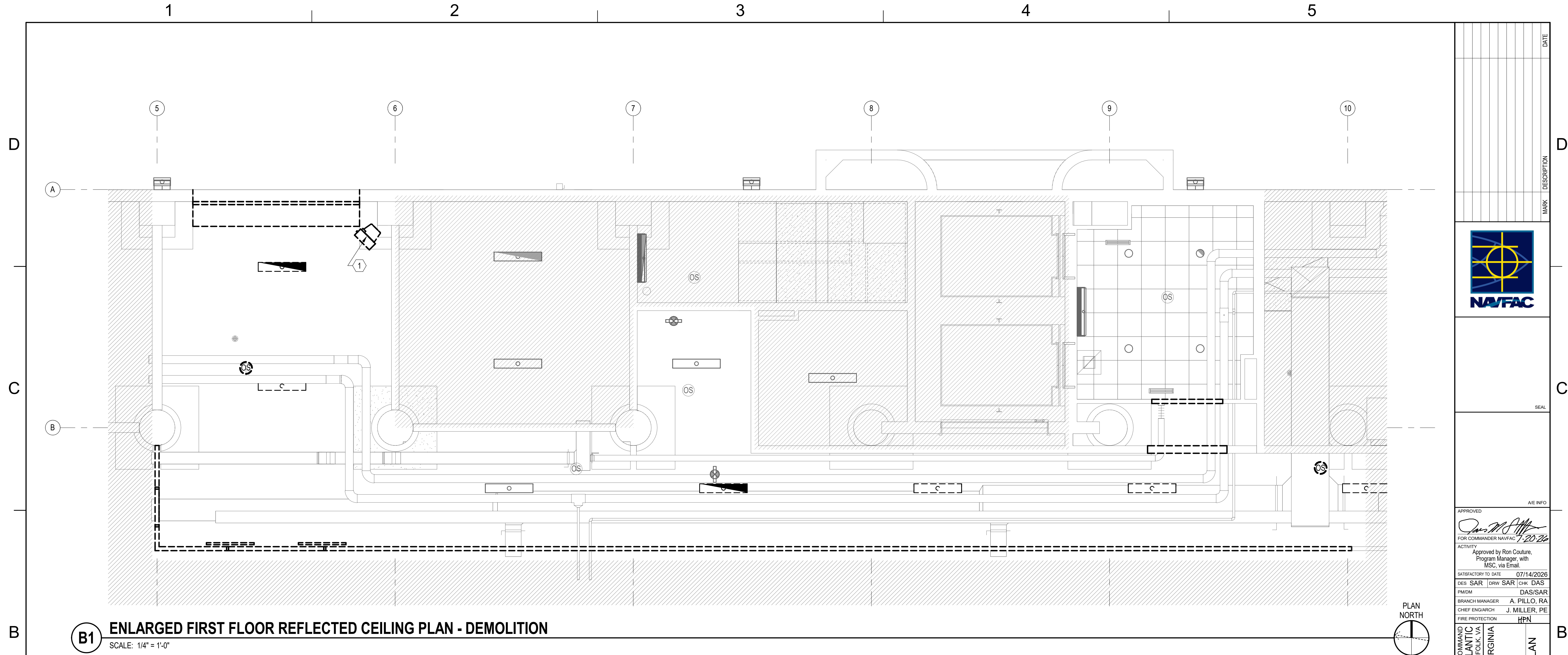


LEGEND

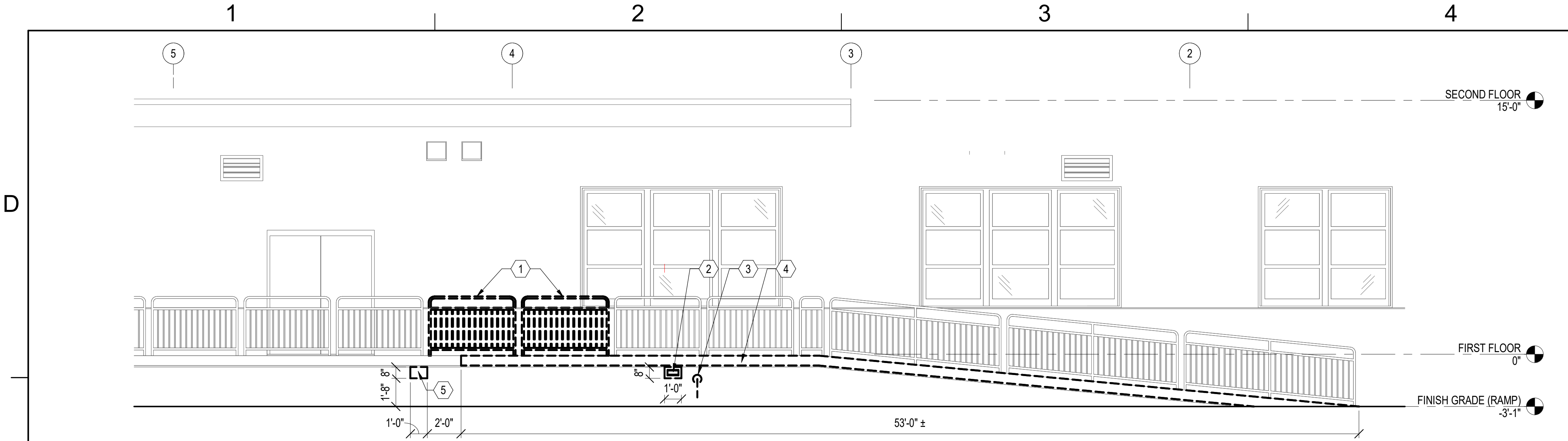
SYMBOL	DESCRIPTION
	AREA NOT IN CONTRACT.

GRAPHIC SCALE

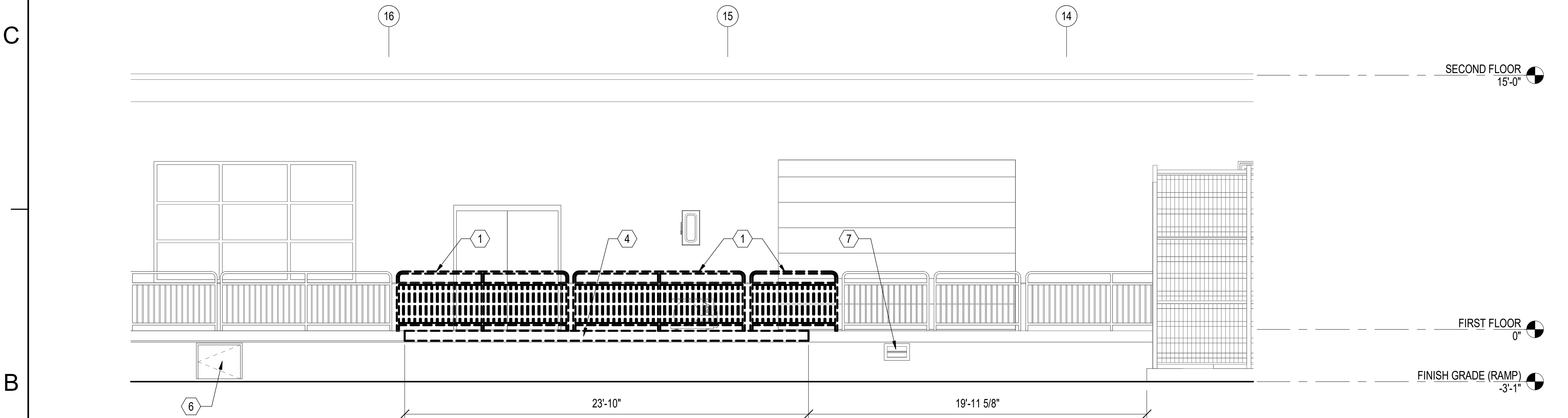
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GENERAL SHEET NOTES		# (THIS SHEET ONLY)	KEYNOTES	KEY PLAN	
A.	REFER TO SHEET A-001 FOR ADDITIONAL GENERAL ARCHITECTURAL NOTES.	1	DEMOLISH EXISTING UNIT HEATER. REFER TO MECHANICAL DRAWINGS.		
B.	THE WORK INCLUDES THE DEMOLITION AND REMOVAL OF ALL CONSTRUCTION INDICATED, NOTED, OR NECESSARY TO ACCOMPLISH THE WORK AS INDICATED OR SPECIFIED. IT IS THE GENERAL INTENT OF THE DEMOLITION WORK TO COMPLETELY REMOVE ALL ITEMS OF EXISTING CONSTRUCTION, WHERE NOTED OR INDICATED ON THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: ANCHORS, FASTENERS, BRACKETS, CLIPS, RODS, HANGERS, AND SUPPORTS COMPLETE.				
C.	EXISTING DIMENSIONS ARE BASED ON EXISTING DRAWINGS AND FIELD WORK. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY WORK.				
D.	DEMOLITION OF CIVIL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, ELECTRICAL, AND TELECOMMUNICATION ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS IS NOT INTENDED TO INCLUDE ALL NECESSARY DEMOLITION WORK FOR THESE ITEMS. REFER TO INTERIOR DESIGN, FIRE PROTECTION, MECHANICAL, ELECTRICAL, AND TELECOMMUNICATION DRAWINGS FOR ADDITIONAL INFORMATION.				
				<	

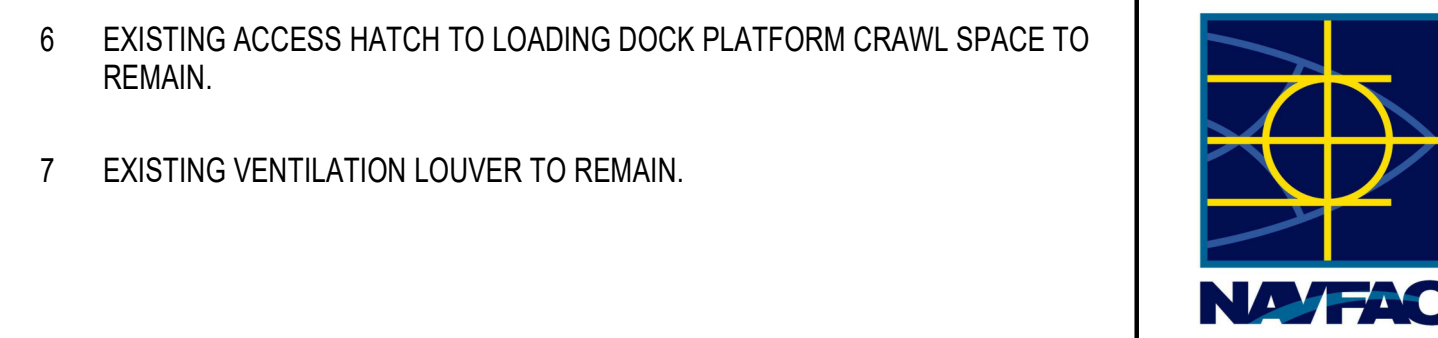


C1 PARTIAL EXTERIOR ELEVATION - DEMOLITION
SCALE: 1/4" = 1'-0"



B1 PARTIAL EXTERIOR ELEVATION - DEMOLITION
SCALE: 1/4" = 1'-0"

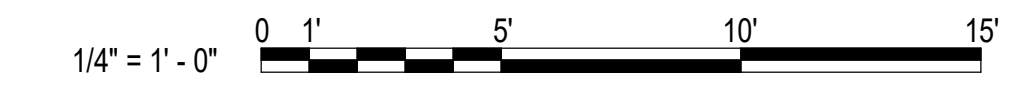
- # (THIS SHEET ONLY) KEYNOTES
- DEMOLISH EXISTING REMOVABLE GUARDRAILS COMPLETE. INFILL UNUSED HOLES LEFT BY REMOVAL OF EXISTING GUARDRAIL WITH EPOXY FILLER TO MATCH EXISTING ADJACENT CONCRETE COLOR AND FINISH.
 - REMOVE EXISTING VENTILATION LOUVER AND SALVAGE FOR REINSTALLATION. INFILL OPENING WITH CONCRETE CONSTRUCTION TO MATCH EXISTING.
 - PARTIALLY DEMOLISH EXISTING CONDENSATION LINE DOWN TO WALL SURFACE AND PREPARE FOR REROUTING.
 - DEMOLISH EXISTING CONCRETE RAMP EDGE COMPLETE TO EXTENTS SHOWN.
 - PARTIALLY DEMOLISH EXISTING CONCRETE WALL TO EXTENTS SHOWN AND PREPARE OPENING FOR VENTILATION LOUVER REINSTALLATION.
 - EXISTING ACCESS HATCH TO LOADING DOCK PLATFORM CRAWL SPACE TO REMAIN.
 - EXISTING VENTILATION LOUVER TO REMAIN.

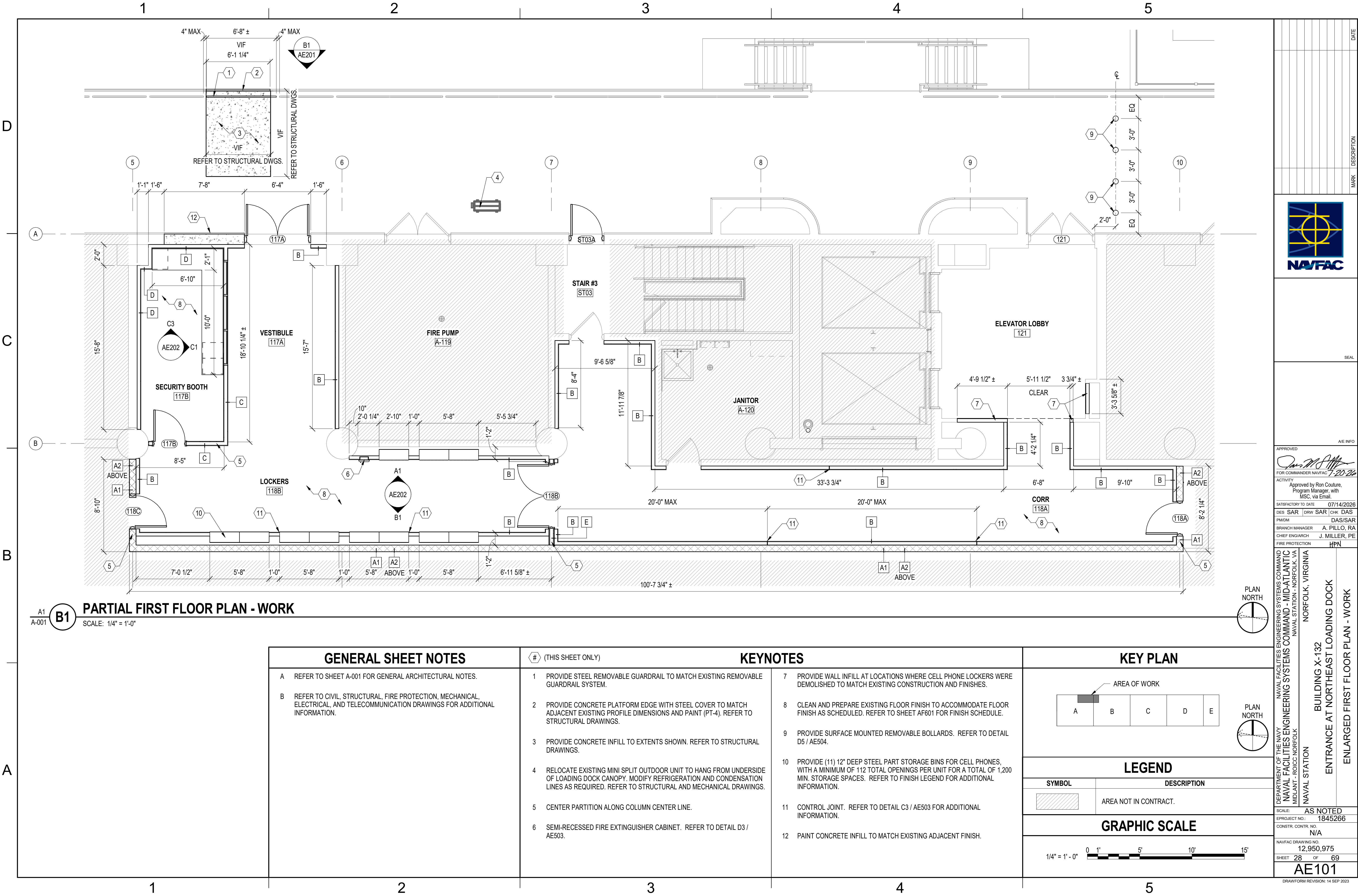


APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
Approved by Ron Couture,
Program Manager, with
MSC, via Email.
SATISFACTORY TO DATE 07/14/2026
DES SAR | DRW SAR | CHK DAS
PMIDM DAS/SAR
BRANCH MANAGER A. PILLO, RA
CHIEF ENGINEER J. MILLER, PE
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL STATION
BUILDING X-132
ENTRANCE AT NORTHEAST LOADING DOCK
PARTIAL ELEVATIONS - DEMOLITION
NORFOLK, VIRGINIA

SCALE: AS NOTED
EPROJECT NO.: 1845266
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12.950.974
SHEET 27 OF 69
AD201





B1 PARTIAL FIRST FLOOR PLAN - WORK
SCALE: 1/4" = 1'-0"

DATE	DESCRIPTION	MARK	SEAL	A/E INFO

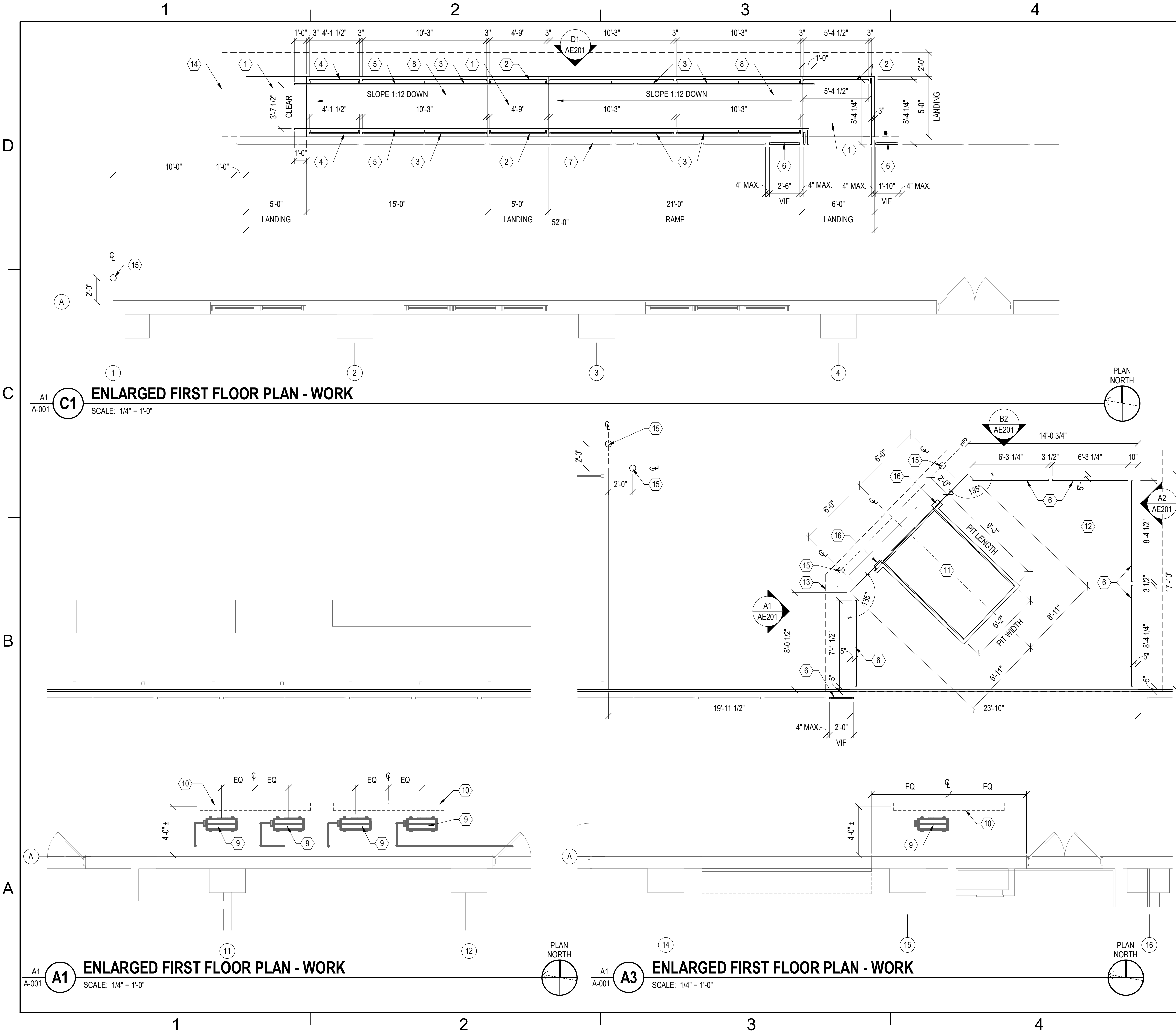
NAVFAC

APPROVED	ACTIVITY	SATISFACTORY TO DATE	DES	SAR	DRW	SAR	CHK	DAS
	Approved by Ron Couture, Program Manager, with MSC, via Email.	07/14/2026	DES	SAR	DRW	SAR	CHK	DAS
BRANCH MANAGER		A. PILLO, RA						
CHIEF ENGINEER		J. MILLER, PE						
FIRE PROTECTION		HPN						

NAVFAC ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
NORFOLK, VIRGINIA

BUILDING X-132
ENTRANCE AT NORTHEAST LOADING DOCK
ENLARGED FIRST FLOOR PLAN - WORK

NAVFAC DRAWING NO. 12.950.975
SHEET 28 OF 69
AE101
DRAWING REVISION: 14 SEP 2023



GENERAL SHEET NOTES

- REFER TO A-001 FOR ADDITIONAL GENERAL ARCHITECTURAL NOTES.
- REFER TO STRUCTURAL DRAWINGS FOR RAMP AND LOADING DOCK PLATFORM STRUCTURE INFORMATION.
- VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION WORK.

KEYNOTES

(THIS SHEET ONLY)

- CONCRETE LANDING. REFER TO STRUCTURAL DRAWINGS.
- STEEL PIPE RAILING - TYPE 1, REFER TO DETAIL C1 / AE201.
- STEEL PIPE RAILING - TYPE 2, REFER TO DETAIL C2 / AE201.
- STEEL PIPE RAILING - TYPE 3, REFER TO DETAIL C4 / AE201.
- CONTINUOUS STEEL PIPE HANDRAIL. REFER TO DETAIL A3 / AE201.
- 1 1/2" DIAMETER STEEL PIPE REMOVABLE GUARDRAIL TO MATCH EXISTING.
- EXISTING REMOVABLE STEEL GUARDRAILS TO REMAIN, TYPICAL.
- CONCRETE RAMP. REFER TO STRUCTURAL DRAWINGS.
- RELOCATE EXISTING MINI SPLIT OUTDOOR UNIT TO HANG FROM UNDERSIDE OF LOADING DOCK CANOPY. MODIFY REFRIGERATION AND CONDENSATION LINES AS REQUIRED. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS.
- PROVIDE OVERHEAD CLEARANCE BAR SUSPENDED FROM CANOPY ABOVE. REFER TO DETAIL D2 / AE504.
- PROVIDE 6' x 10' ELECTRO-HYDRAULIC, PUT STYLE, DOCK LEVELER AND ASSOCIATED COMPONENTS AND PROVIDE POWER CONNECTIVITY. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS. REFER TO DETAIL D4 / AE504 FOR EDGE OF DOCK DETAIL.
- PROVIDE CONCRETE DOCK LOADING PLATFORM. REFER TO STRUCTURAL DRAWINGS.
- PROVIDE ASPHALT AND CONCRETE CONSTRUCTION REPAIR AS REQUIRED BY LOADING DOCK PLATFORM CONSTRUCTION. REFER TO CIVIL AND STRUCTURAL DRAWINGS.
- PROVIDE ASPHALT CONSTRUCTION REPAIR AS REQUIRED BY ACCESSIBLE RAMP CONSTRUCTION. REFER TO CIVIL AND STRUCTURAL DRAWINGS.
- PIPE BOLLARD, REFER TO CIVIL DRAWINGS FOR DETAIL.
- PROVIDE 10" H x 18" L x 4" D LOADING DOCK BUMPERS.

KEY PLAN

GRAPHIC SCALE

1/4" = 1' - 0"

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Ron Couture, Program Manager, with MSC, via Email.

SATISFACTORY TO DATE

DES SAR | DRW SAR | CHK DAS

PMIDM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

07/14/2026

A. PILLO, RA

J. MILLER, PE

HPN

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC

NAVAL STATION - NORFOLK, VA

NORFOLK, VIRGINIA

BUILDING X-132

ENTRANCE AT NORTHEAST LOADING DOCK

ENLARGED FIRST FLOOR PLANS - WORK

AS NOTED

1845266

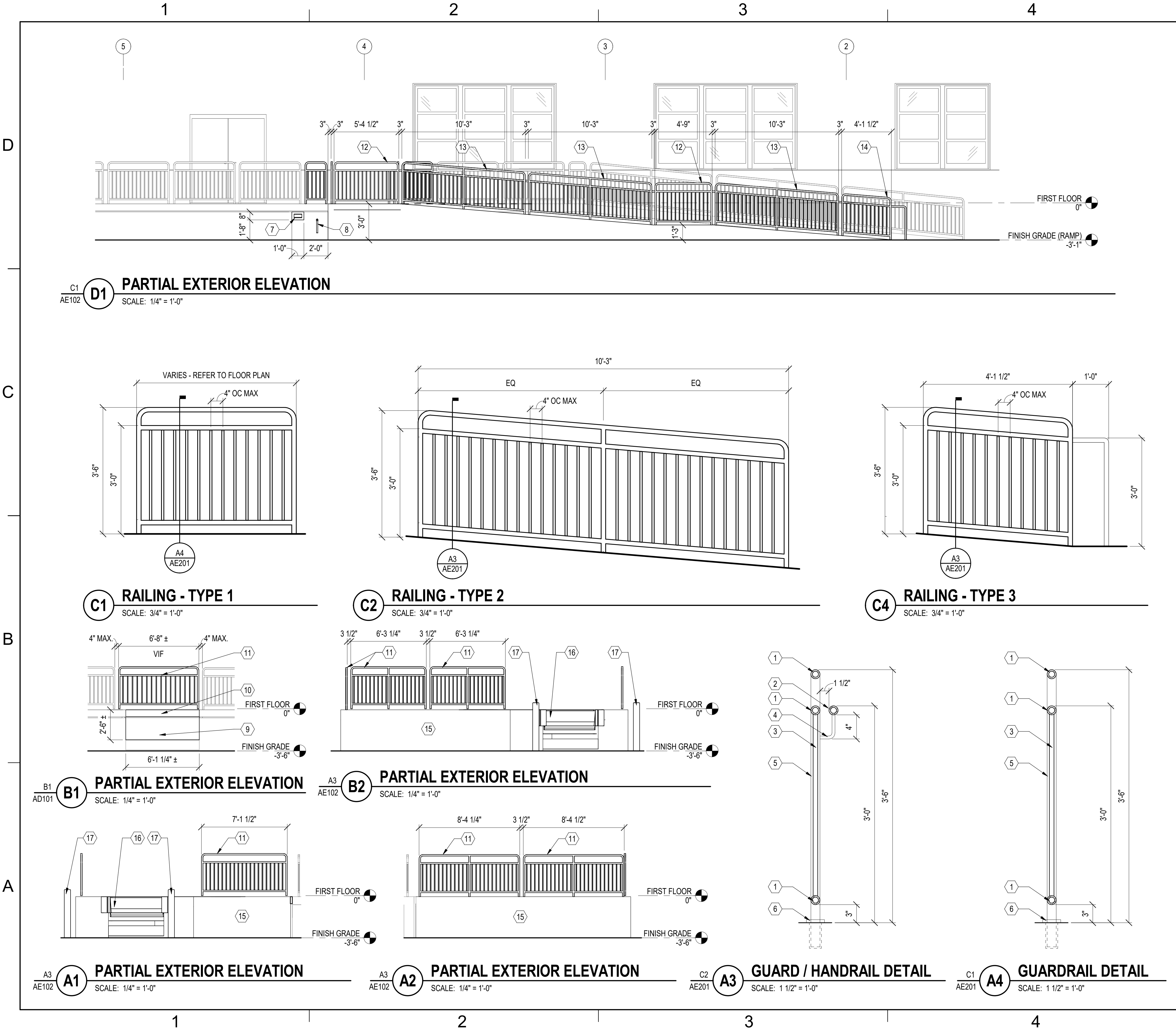
N/A

12.950.976

29 OF 69

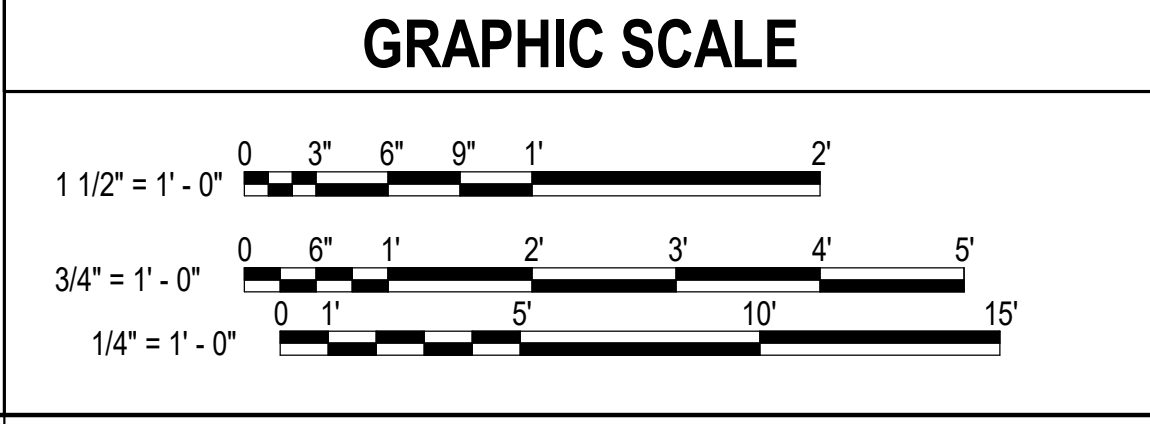
AE102

DRAWING REVISION: 14 SEP 2023

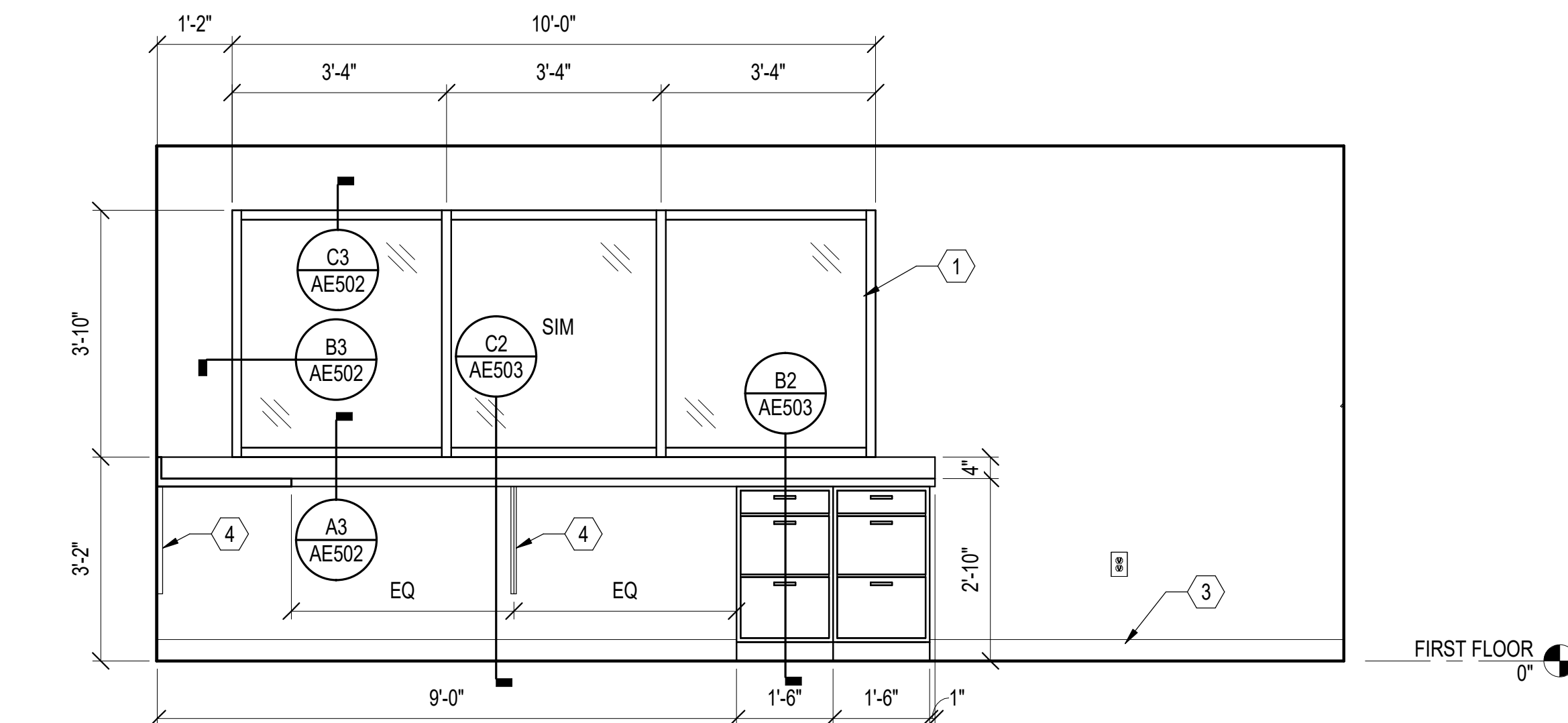


- # (THIS SHEET ONLY) **KEYNOTES**
- 1-1/2" Ø GALVANIZED STEEL PIPE GUARDRAIL.
 - 1-1/2" Ø GALVANIZED STEEL PIPE HANDRAIL.
 - 3/4" Ø GALVANIZED STEEL PICKETS EQUALLY SPACED 4" OC MAX.
 - 1/2" Ø GALVANIZED STEEL PIPE HANDRAIL SUPPORT.
 - 1-1/2" Ø GALVANIZED STEEL PIPE POST.
 - STEEL PIPE SLEEVE IN NON SHRINK GROUT, UON.
 - REINSTALL SALVAGED VENTILATION LOUVER.
 - REROUTE CONDENSING LINE FROM PREVIOUS LOCATION TO APPROXIMATE LOCATION SHOWN ON ELEVATION. MAINTAIN NEGATIVE SLOPE FOR PROPER DRAINAGE.
 - PROVIDE CONCRETE INFILL TO EXTENTS SHOWN. REFER TO STRUCTURAL DRAWINGS.
 - PROVIDE CONCRETE PLATFORM EDGE WITH STEEL COVER TO MATCH ADJACENT EXISTING PROFILE DIMENSIONS AND PAINT (PT-4), REFER TO STRUCTURAL DRAWINGS.
 - PROVIDE STEEL REMOVABLE GUARDRAIL TO MATCH EXISTING REMOVABLE GUARDRAIL SYSTEM.
 - STEEL PIPE RAILING - TYPE 1, REFER TO DETAIL C1 / AE201.
 - STEEL PIPE RAILING - TYPE 2, REFER TO DETAIL C2 / AE201.
 - STEEL PIPE RAILING - TYPE 3, REFER TO DETAIL C4 / AE201.
 - PROVIDE CONCRETE DOCK LOADING PLATFORM. REFER TO STRUCTURAL DRAWINGS.
 - PROVIDE 6' x 10' ELECTRO-HYDRAULIC, PUT STYLE, DOCK LEVELER AND ASSOCIATED COMPONENTS AND PROVIDE POWER CONNECTIVITY. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS.
 - PROVIDE 6' x 10' ELECTRO-HYDRAULIC, PUT STYLE, DOCK LEVELER AND ASSOCIATED COMPONENTS AND PROVIDE POWER CONNECTIVITY. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS.

APPROVED				A/E INFO
FOR COMMANDER NAVFAC				
ACTIVITY				
Approved by Ron Couture, Program Manager, with MSC, via Email.				
SATISFACTORY TO DATE				07/14/2026
DES	SAR	DRW	SAR	CHK: DAS
PMIDM				DAS/SAR
BRANCH MANAGER				A. PILLO, RA
CHIEF ENGINEER				J. MILLER, PE
FIRE PROTECTION				HPN



DATE		DESCRIPTION	
MARK		SEAL	
A/E INFO		APPROVED	
FOR COMMANDER NAVFAC		ACTIVITY	
Approved by Ron Couture, Program Manager, with MSC, via Email.		SATISFACTORY TO DATE	
DES		SAR	
PMIDM		DAS/SAR	
BRANCH MANAGER		A. PILLO, RA	
CHIEF ENGINEER		J. MILLER, PE	
FIRE PROTECTION		HPN	
DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND	
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC		NAVAL STATION - NORFOLK, VA	
MID-ATLANTIC - ROICC NORFOLK		NORFOLK, VIRGINIA	
NAVAL STATION		BUILDING X-132	
ENTRANCE AT NORTHEAST LOADING DOCK		ELEVATIONS - WORK	
SCALE:		AS NOTED	
PROJECT NO.:		1845266	
CONSTR. CONTR. NO.		N/A	
NAVFAC DRAWING NO.		12,950,978	
SHEET		31 OF 69	
AE201		DRAWING REVISION: 14 SEP 2023	

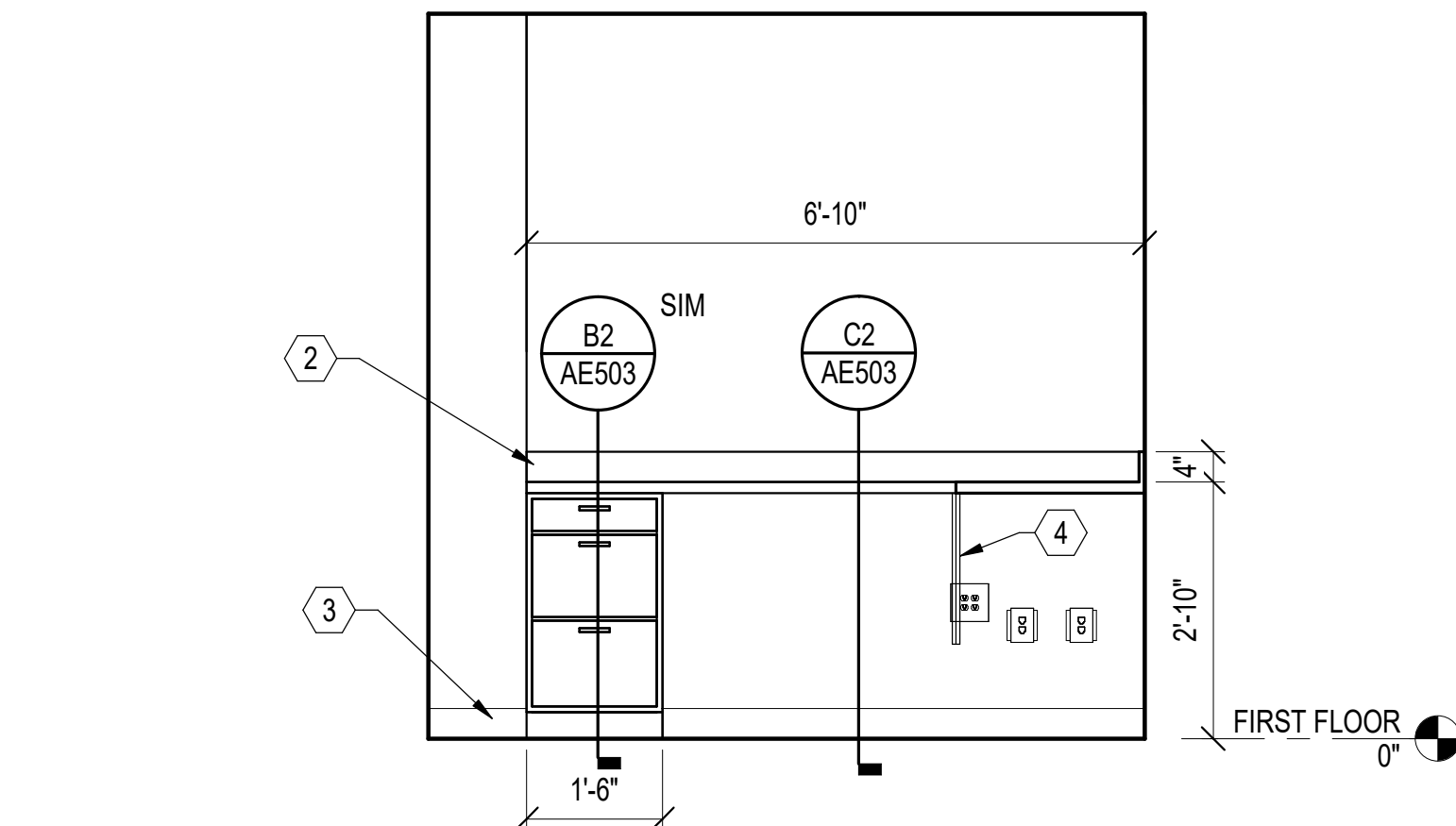


B1
AE101

C1

INTERIOR ELEVATION - SECURITY BOOTH 117B

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

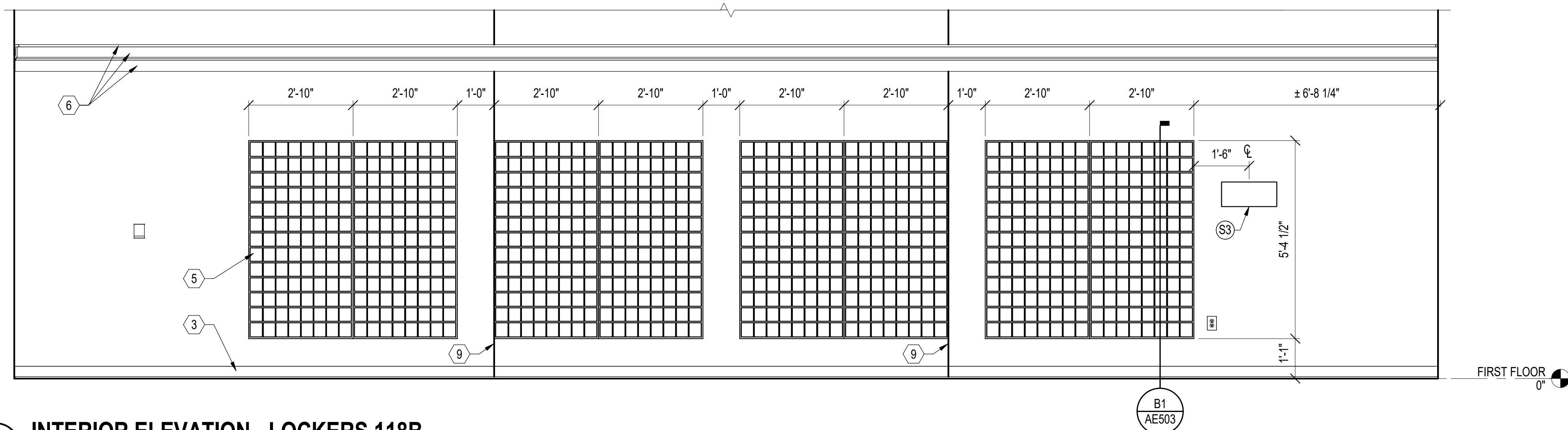


B1
AE101

C3

INTERIOR ELEVATION - SECURITY BOOTH 117B

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

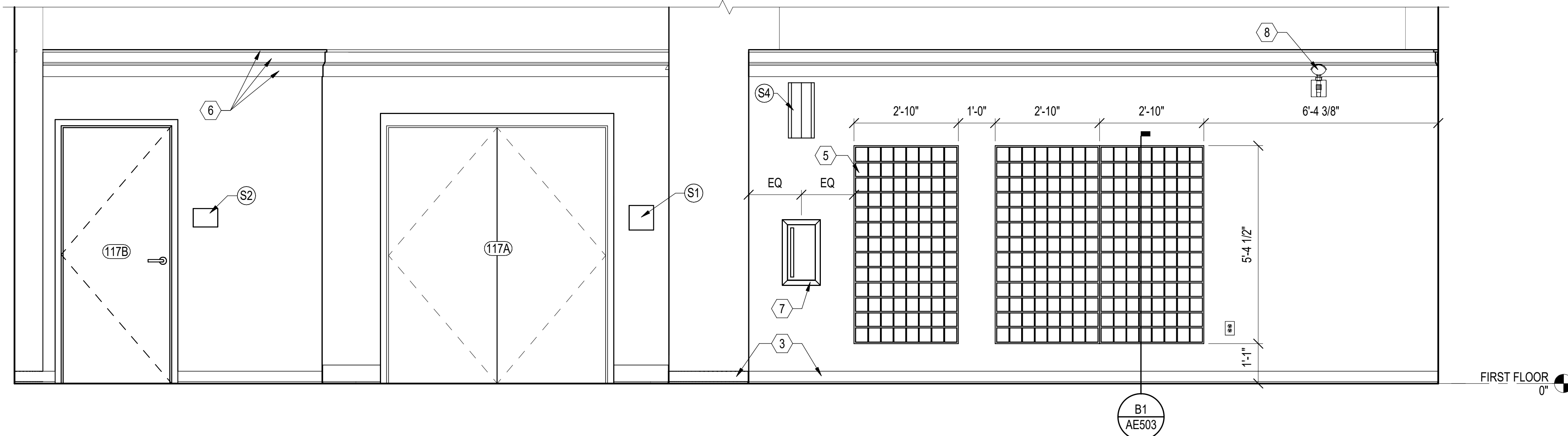


B1
AE101

B1

INTERIOR ELEVATION - LOCKERS 118B

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



B1
AE101

A1

INTERIOR ELEVATION - LOCKERS 118B

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

(THIS SHEET ONLY) KEYNOTES

- 1 PROVIDE ALUMINUM STOREFRONT WINDOW.
- 2 PROVIDE SOLID SURFACE (SS-1) END SPLASH.
- 3 PROVIDE BASE AS SCHEDULED. REFER TO FINISH SCHEDULE.
- 4 PROVIDE FRONT MOUNTING "L" SHAPED BRACKET COUNTERTOP SUPPORTS
CENTERED 24" OC MAXIMUM.
- 5 PROVIDE (11) 12" DEEP STEEL PART STORAGE BINS FOR CELL PHONES, WITH
A MINIMUM OF 112 TOTAL OPENINGS PER UNIT FOR A TOTAL OF 1,200 MIN.
STORAGE SPACES. REFER TO FINISH LEGEND FOR ADDITIONAL
INFORMATION.
- 6 PROVIDE WOOD TRIM AS SHOWN PER PARTITION TYPE AND STAIN (ST-1).
REFER TO PARTITION TYPES AND FINISH SCHEDULE.
- 7 SEMI-RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAIL D3 /
AE503.
- 8 SECURITY CAMERA. REFER TO TELECOMMUNICATION DRAWINGS.
- 9 CONTROL JOINT. REFER TO DETAIL C3 / AE503 FOR ADDITIONAL
INFORMATION.



APPROVED		A/E INF	
			
FOR COMMANDER NAVFAC		7-20-2	
ACTIVITY			
Approved by Ron Couture, Program Manager, with MSC, via Email.			
SATISFACTORY TO DATE		07/14/2007	
DES	SAR	DRW	SAR
CHK	DAS		
PMD/M			DAS/SAR
BRANCH MANAGER		A. PILLO, F	
CHIEF ENG/ARCH		J. MILLER, F	
FIRE PROTECTION		HPN	

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	NAVAL STATION - NORFOLK, VA
MIDLANT - ROICC-NORFOLK	
NAVAL STATION	NORFOLK, VIRGINIA
BUILDING X-132	
ENTRANCE AT NORTHEAST LOADING DOCK	
ELEVATIONS - WORK	

GRAPHIC SCALE

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

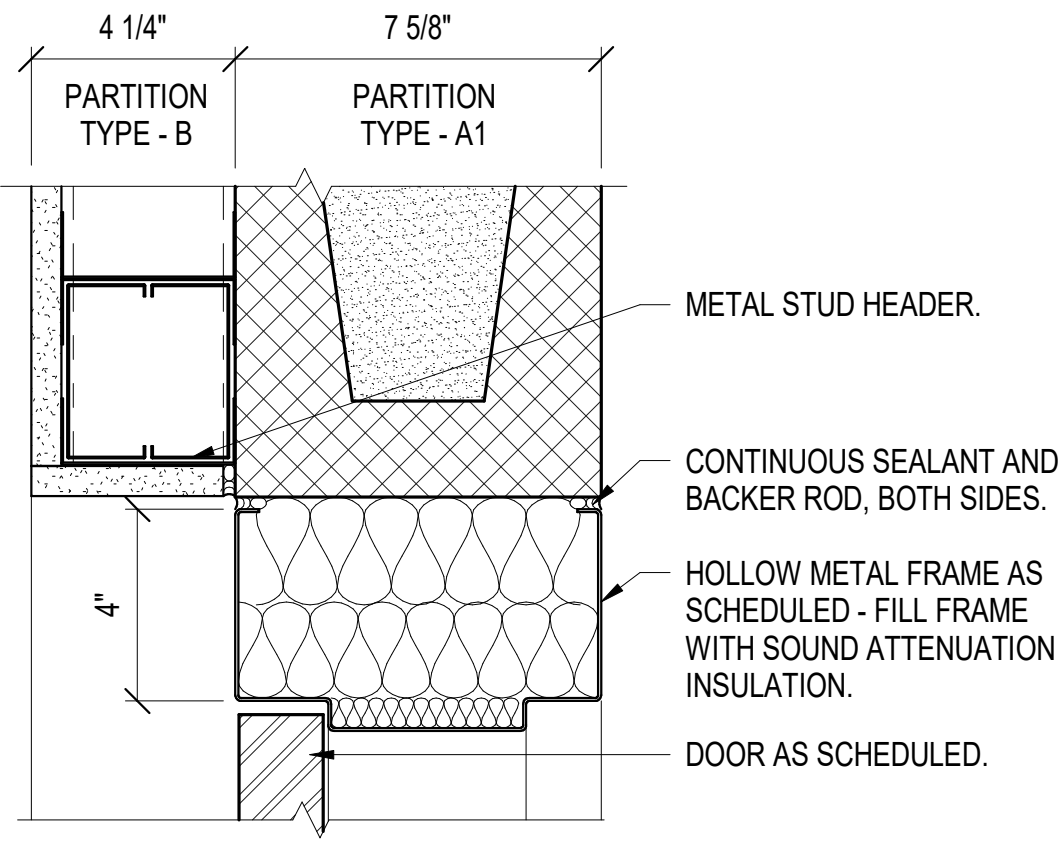
A horizontal graphic scale bar with alternating black and white segments. Above the bar, the markings are labeled: 0, 6", 1', 2', 3', and 4'. The bar represents a total length of 4 feet.

SCALE:	AS NOTED	
EPROJECT NO.:	184526	
CONSTR. CONTR. NO.	N/A	
NAVFAC DRAWING NO.	12,950,979	
SHEET	32	OF 69
AE202		

DRAWFORM REVISION: 14 SEP 2011

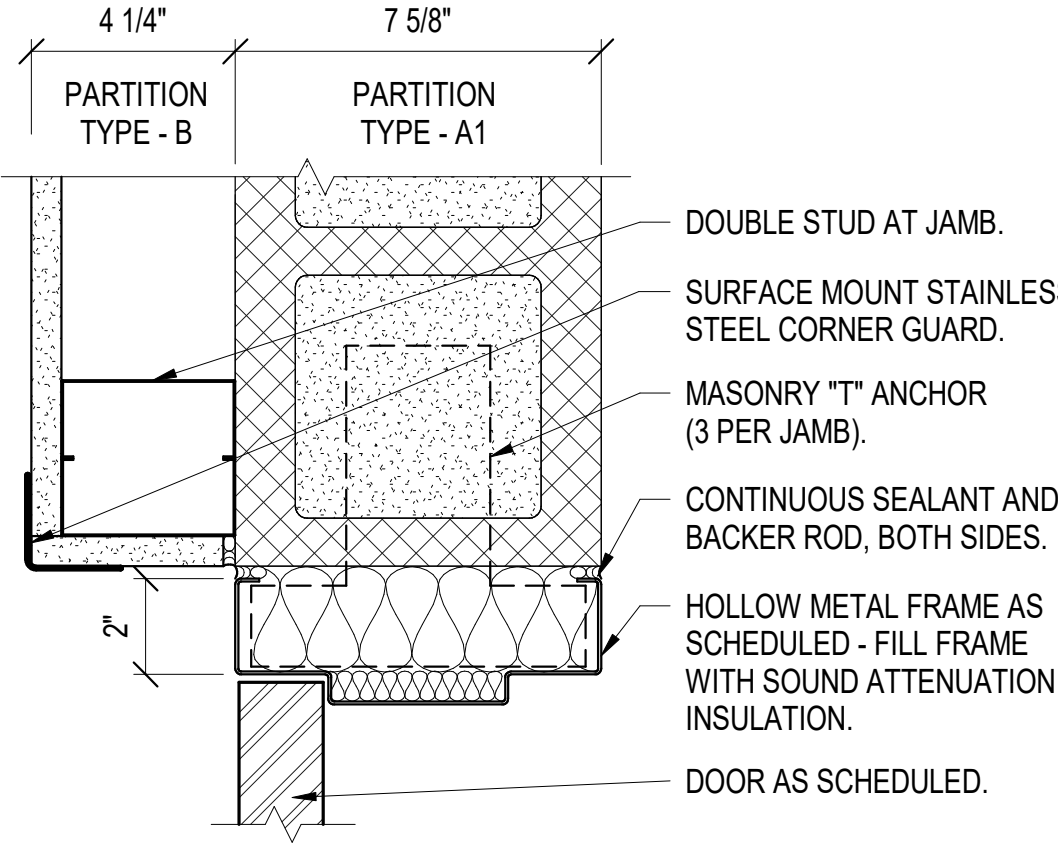
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C
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D
C
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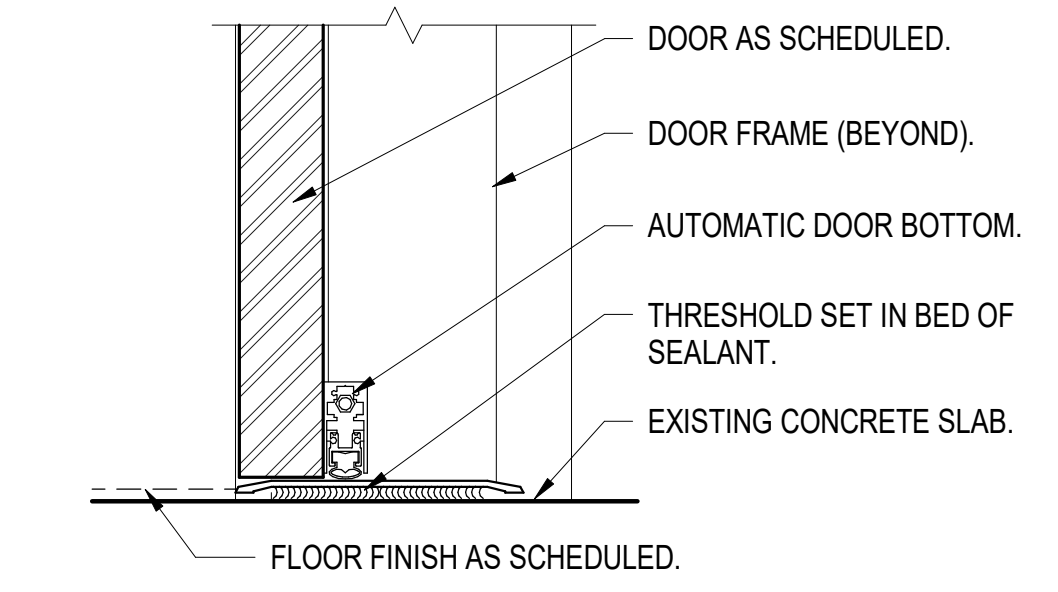
D1 DOOR HEAD - CMU

SCALE: 3" = 1'-0"



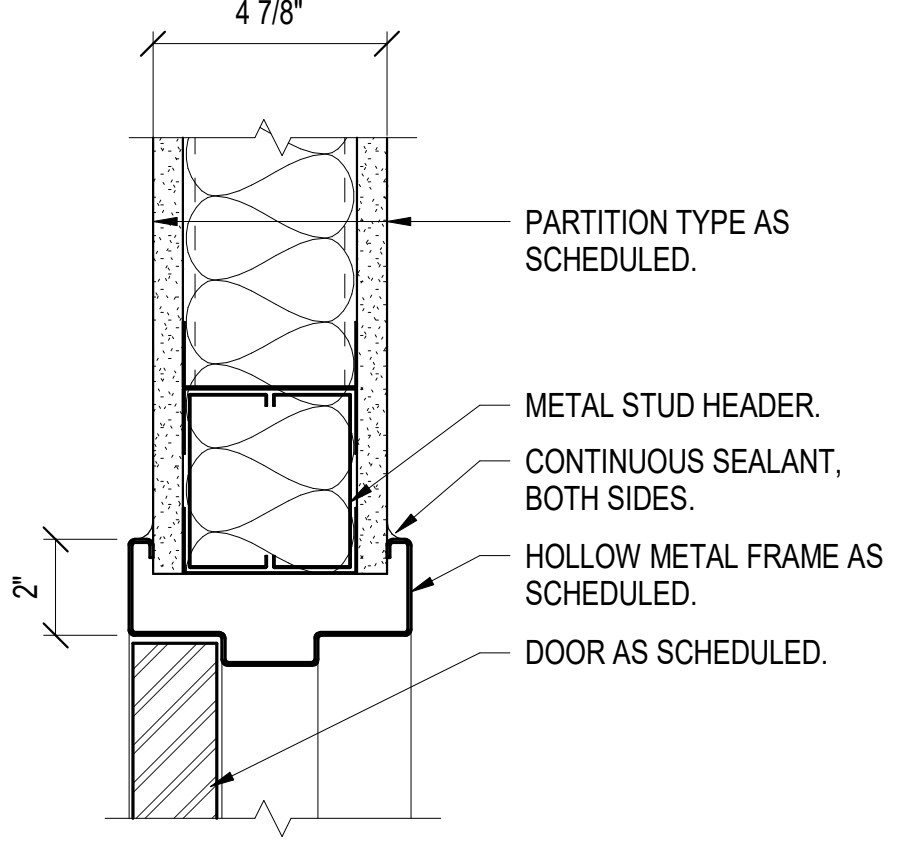
C1 DOOR JAMB - CMU

SCALE: 3" = 1'-0"



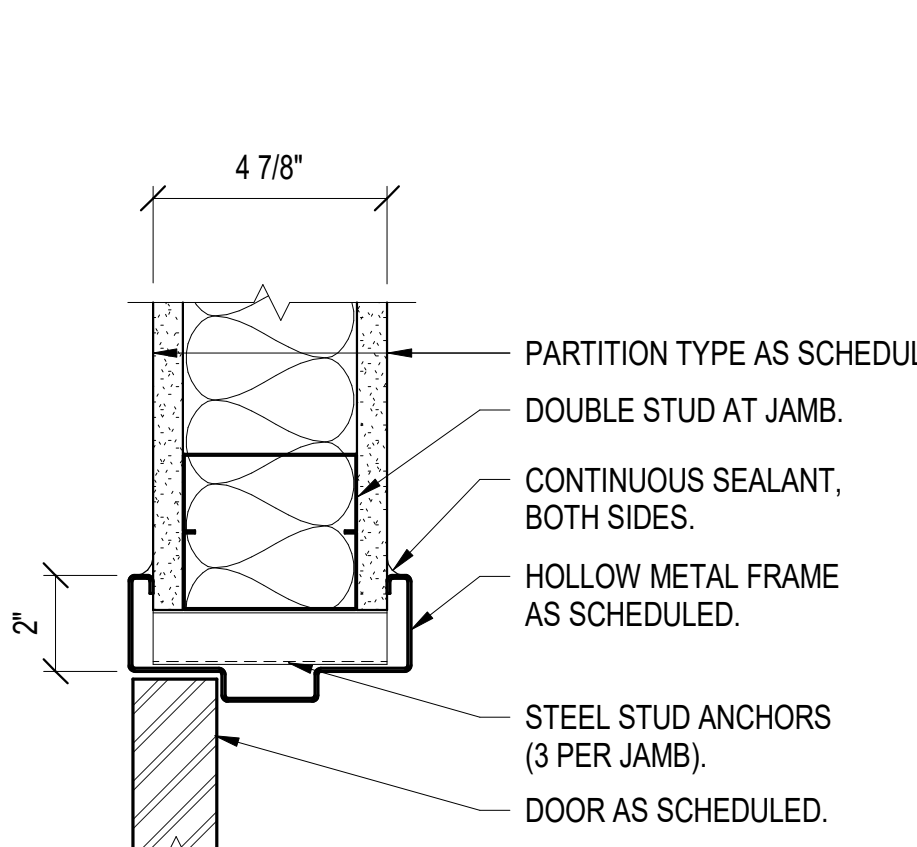
B1 DOOR SILL

SCALE: 3" = 1'-0"



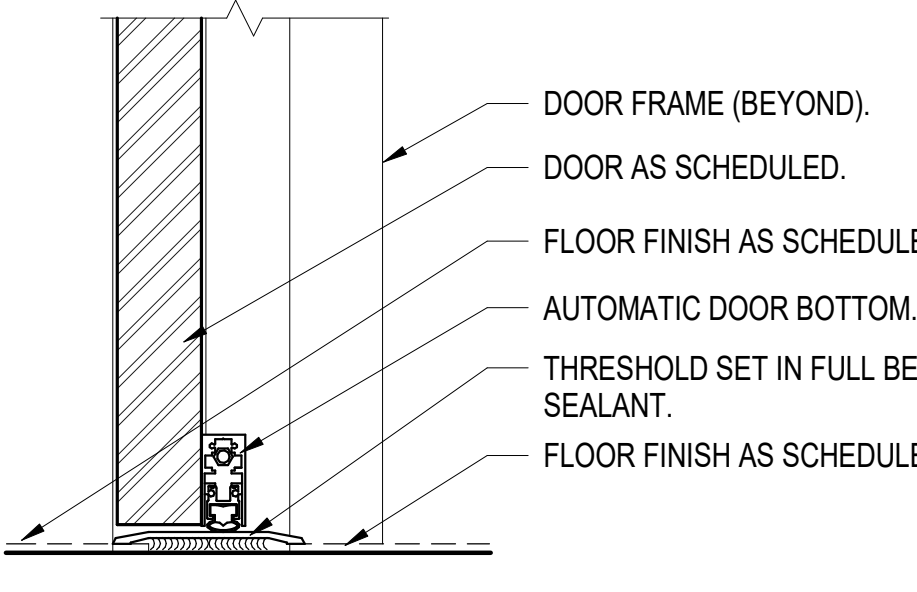
D2 DOOR HEAD - GWB

SCALE: 3" = 1'-0"



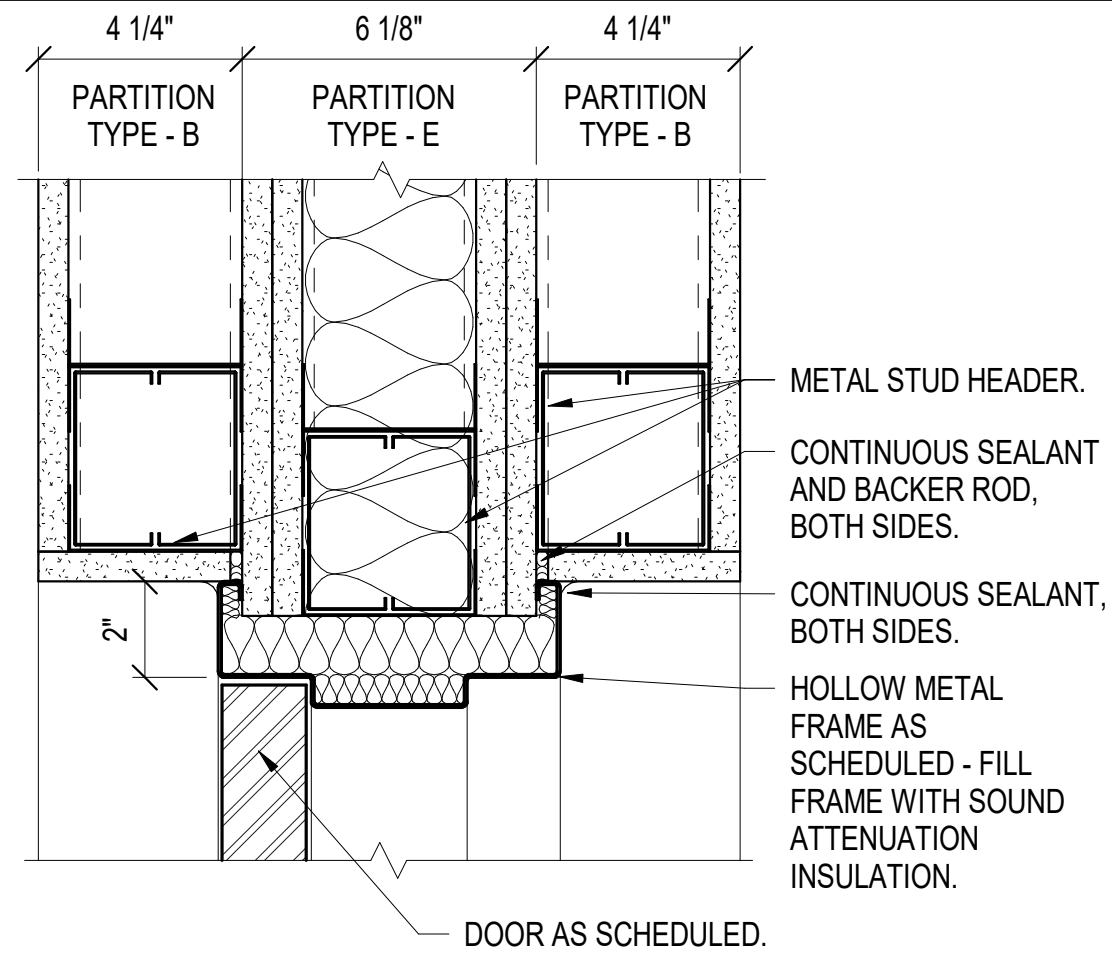
C2 DOOR JAMB - GWB

SCALE: 3" = 1'-0"



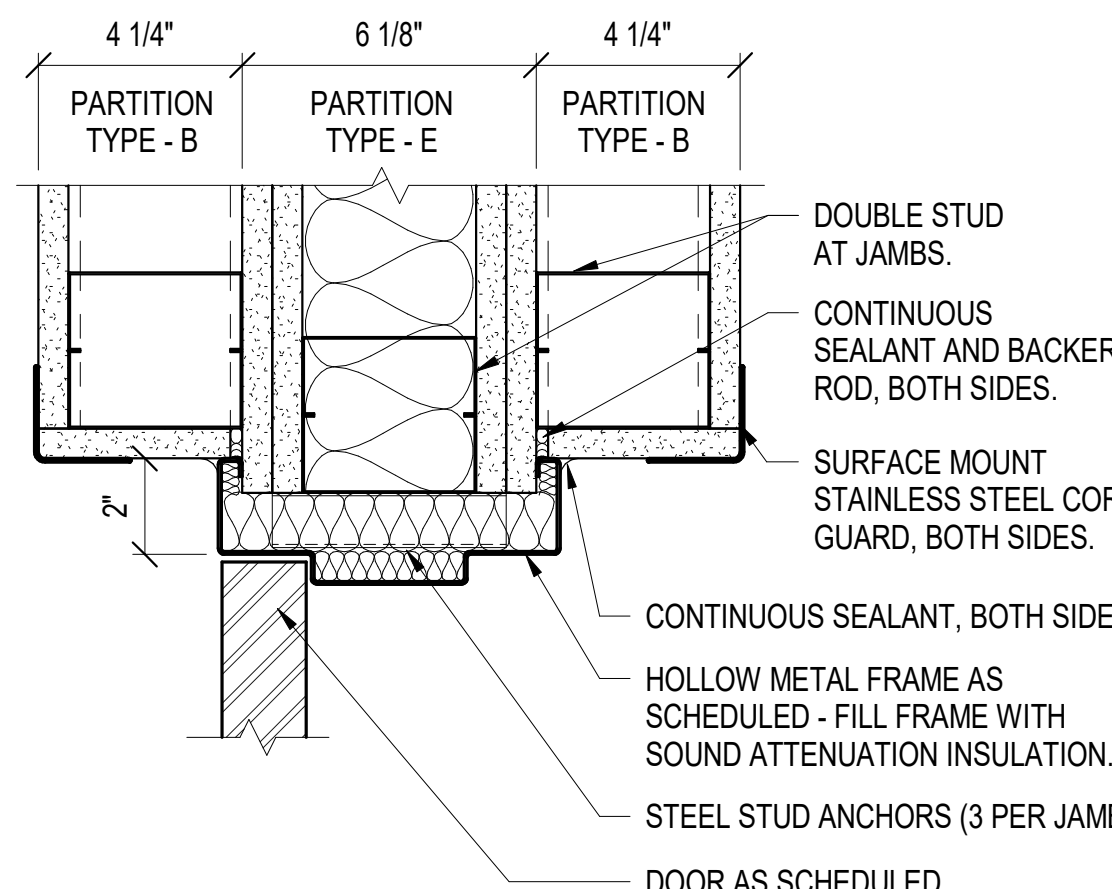
B2 DOOR SILL

SCALE: 3" = 1'-0"



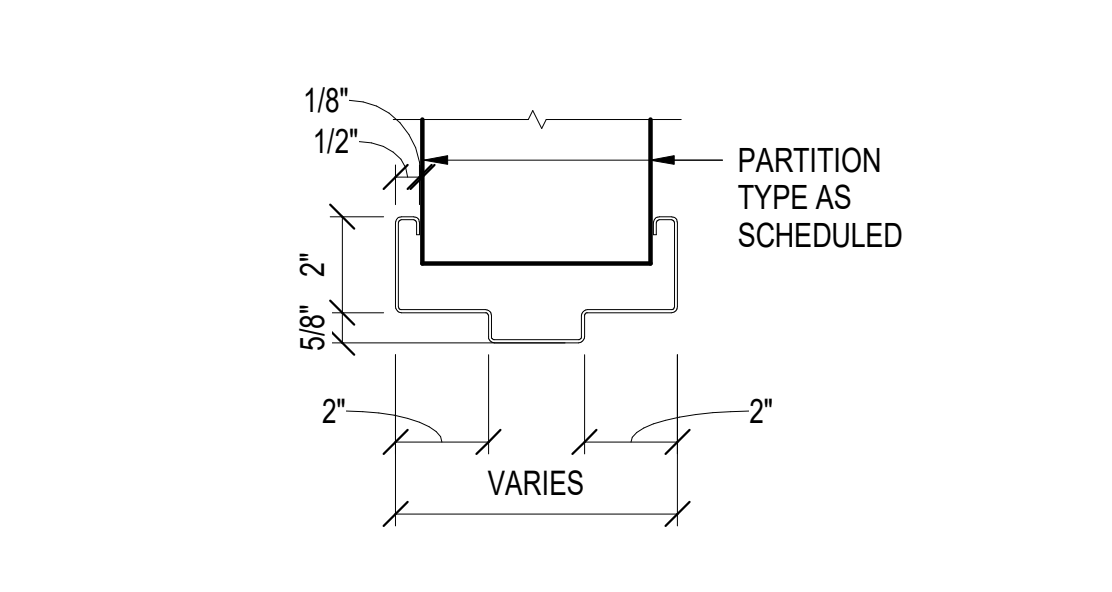
D3 DOOR HEAD - STC RATED

SCALE: 3" = 1'-0"



C3 DOOR JAMB - STC RATED

SCALE: 3" = 1'-0"



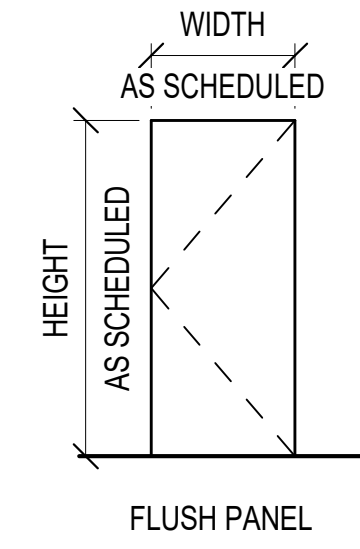
B3 HM WELDED FRAME PROFILE

SCALE: 3" = 1'-0"

DOOR SCHEDULE														
DOOR NO.	DOOR					FRAME					FIRE RATING	HARDWARE SET NO.	STC RATING	REMARKS
	TYPE	SIZE			MATERIAL	TYPE	MATERIAL	DETAILS ON THIS SHEET UON						
		WIDTH	HEIGHT	THICKNESS				HEAD	JAMB	SILL				
117A	A	6'-0"	7'-0"	1 3/4"	HM	F-1	HM	D4/AE502	C4/AE502	B4/AE502	-	1	-	1, 4, 5
117B	A	3'-0"	7'-0"	1 3/4"	HM	F-1	HM	D2	C2	B2	-	2	-	1, 2
118A	A	3'-0"	7'-0"	1 3/4"	HM	F-2	HM	D1	C1	B1	45 MIN	3	50	1, 2, 3
118B	A	6'-0"	7'-0"	1 3/4"	HM	F-1	HM	D3	C3	B1	-	4	50	1, 2
118C	A	3'-0"	7'-0"	1 3/4"	HM	F-2	HM	D1	C1	B1	45 MIN	3	-	1, 2, 3
ST03A	A	3'-0"	7'-0"	1 3/4"	HM	F-1	HM	D4/AE502 (SIM)	C4/AE502 (SIM)	B4/AE502	90 MIN	5	-	1, 4, 5

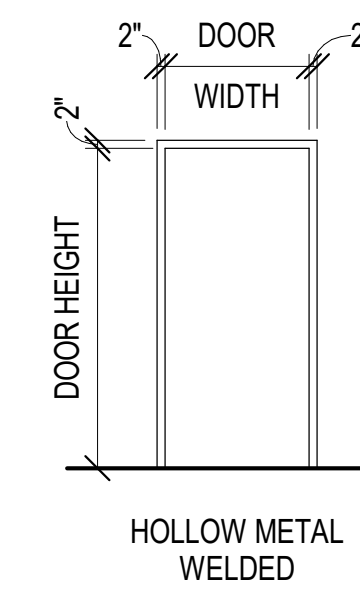
DOOR SCHEDULE REMARKS

- REFER TO SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INFORMATION.
- PAIN (PT-7) DOOR AND FRAME AS SCHEDULED.
- PROVIDE DOOR FRAME, SOUND ATTENUATION GASKETING, AND DOOR HARDWARE AS RECOMMENDED BY DOOR MANUFACTURER.
- EXTERIOR DOOR MUST MEET ANTI TERRORISM / FORCE PROTECTION (ATFP) REQUIREMENTS PER UFC 4-010-01 AND SPECIFICATION SECTION 08 39 54.
- PAIN (PT-7) DOOR AND FRAME AS SCHEDULED ON INTERIOR SIDE. PAIN EXTERIOR SIDE TO MATCH EXISTING ADJACENT EXTERIOR DOORS.



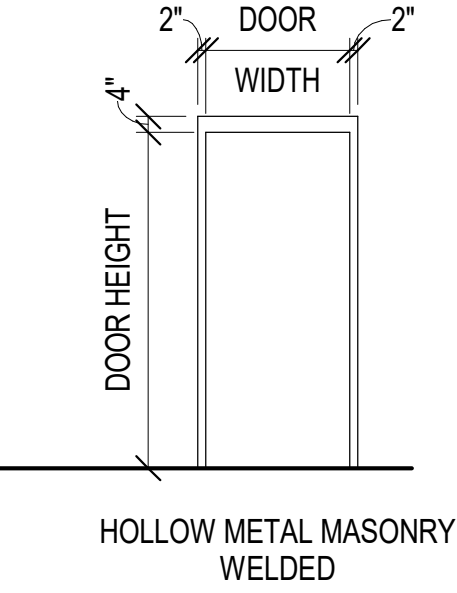
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REFER TO DETAIL FOR TYP HM WELDED FRAME PROFILE



F-1

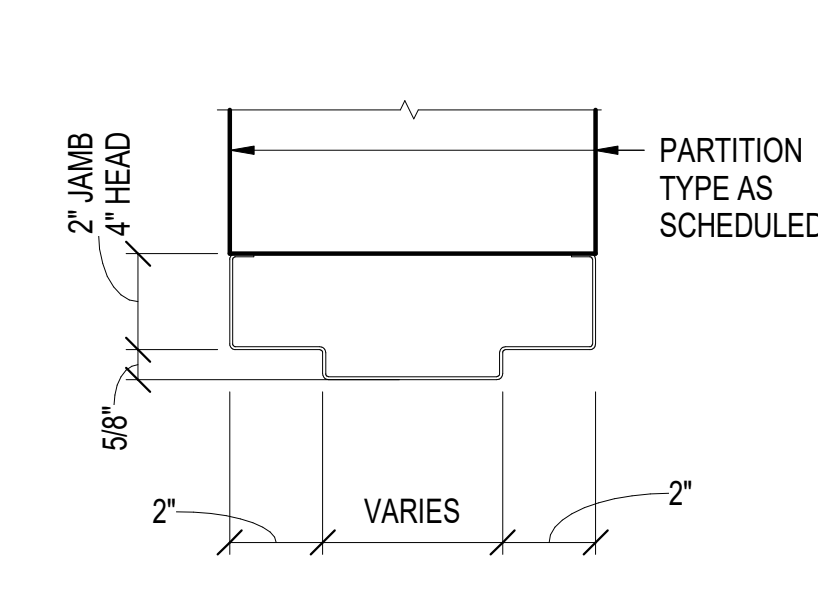
REFER TO DETAIL FOR TYP HM WELDED MASONRY FRAME PROFILE



F-2

C4 DOOR TYPES

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

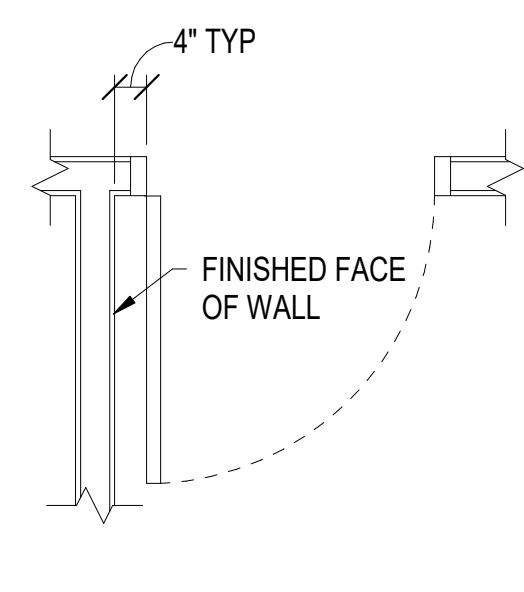


B4 HM MASONRY FRAME PROFILE

SCALE: 3" = 1'-0"

C5 FRAME TYPES

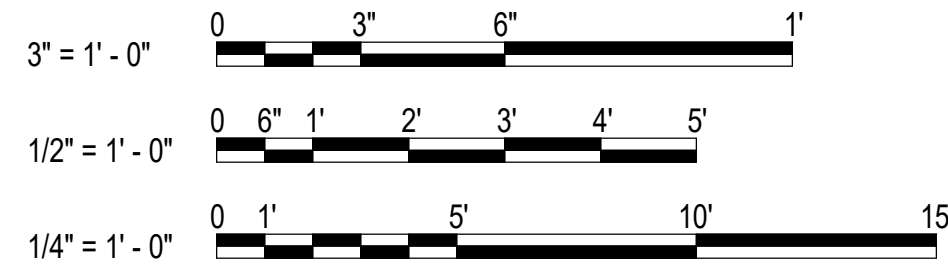
SCALE: 1/4" = 1'-0"



B5 TYPICAL DOOR LOCATION

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

GRAPHIC SCALES



DATE

DESCRIPTION

MARK

APPROVED

FOR COMMANDER NAVFAC 1-20-26
ACTIVITY
Approved by Ron Couture,
Program Manager, with
MSC, via Email.
SATISFACTORY TO DATE 07/14/2026
DES SAR | DRW SAR | CHK DAS
PMIDM DAS/SAR
BRANCH MANAGER A. PILLO, RA
CHIEF ENGINEER J. MILLER, PE
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL STATION
NORFOLK, VIRGINIA
BUILDING X-132
ENTRANCE AT NORTHEAST LOADING DOCK
DOOR SCHEDULE AND DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1845266
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12.950.980
SHEET 33 OF 69
AE501
DRAWING REVISION: 14 SEP 2023

1

2

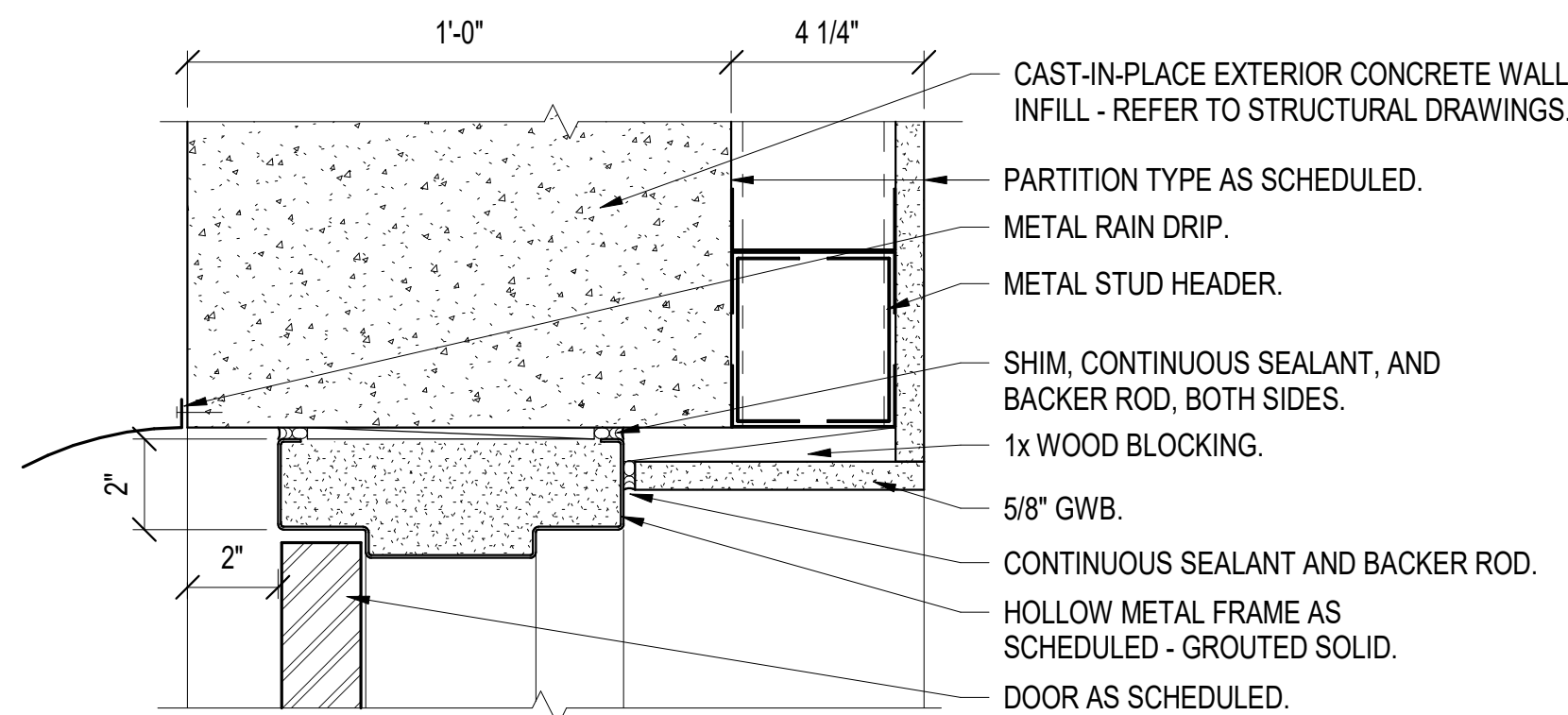
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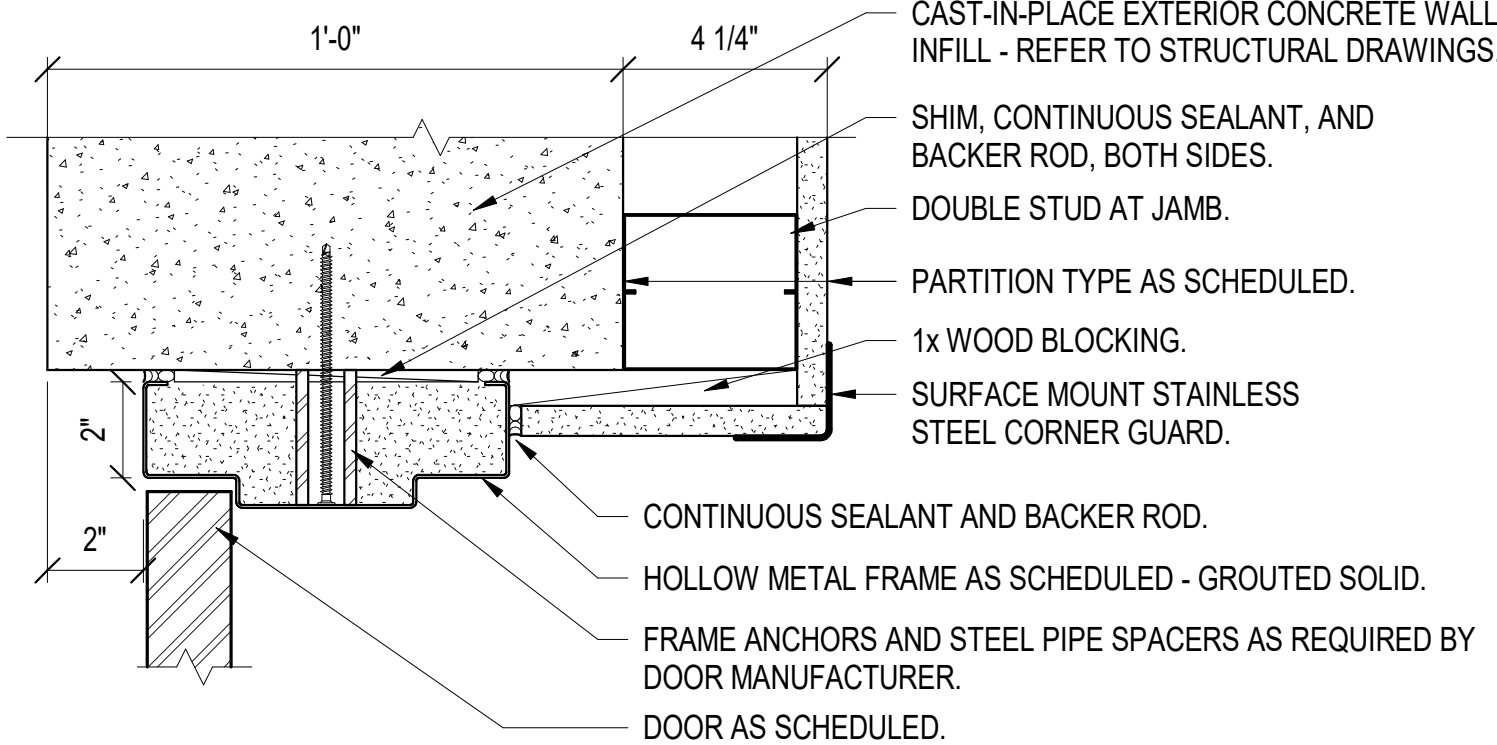
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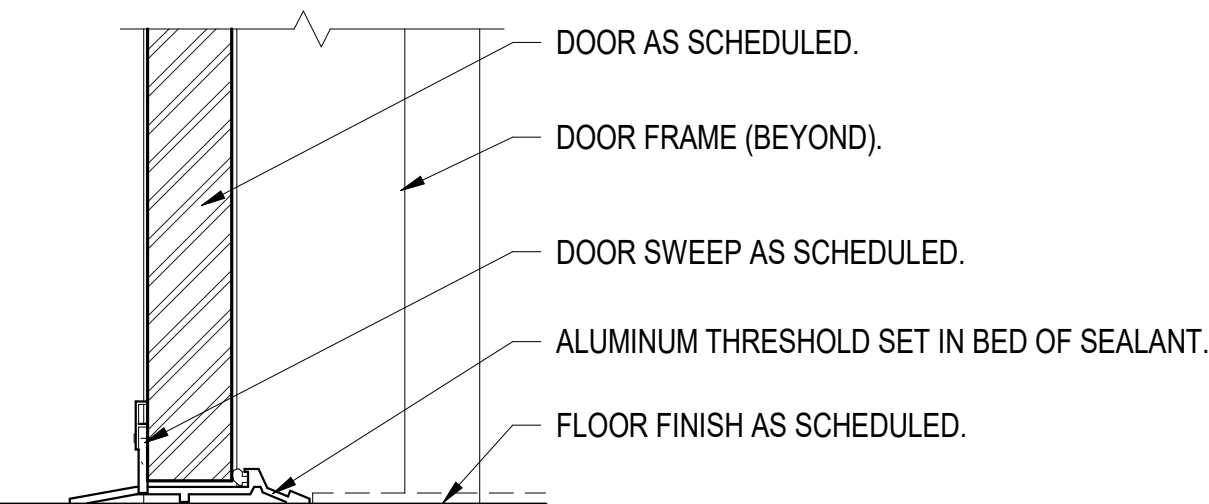
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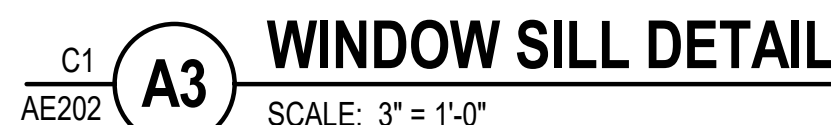
SCALE: 3" = 1'-0"



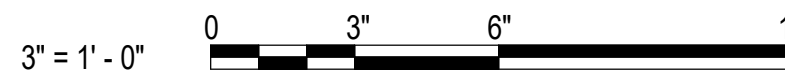
SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"



GRAPHIC SCALE

[illegible]

A

5

A

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



A

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



202 (CZ) SCALE: 1 1/2" = 1'-0"



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



E303 SCALE: 6" = 1'-0"



E303 SCALE: 6" = 1'-0"



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



SCALE: 3" = 1'-0"



B3 SCALE: 1 1/2" = 1'-0"



SCALE: 3" = 1'-0"



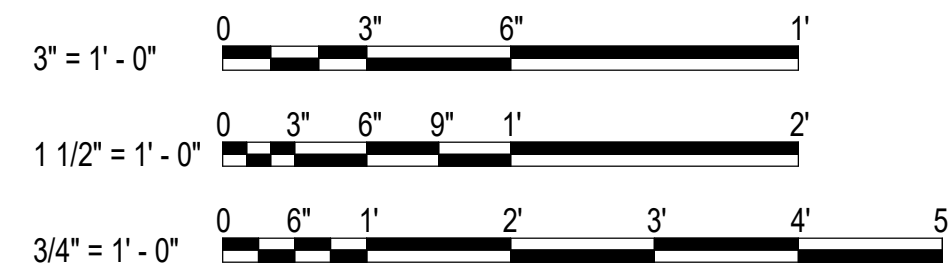
C4 SCALE: 1 1/2" = 1'-0"



SECTION

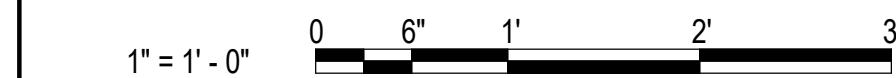
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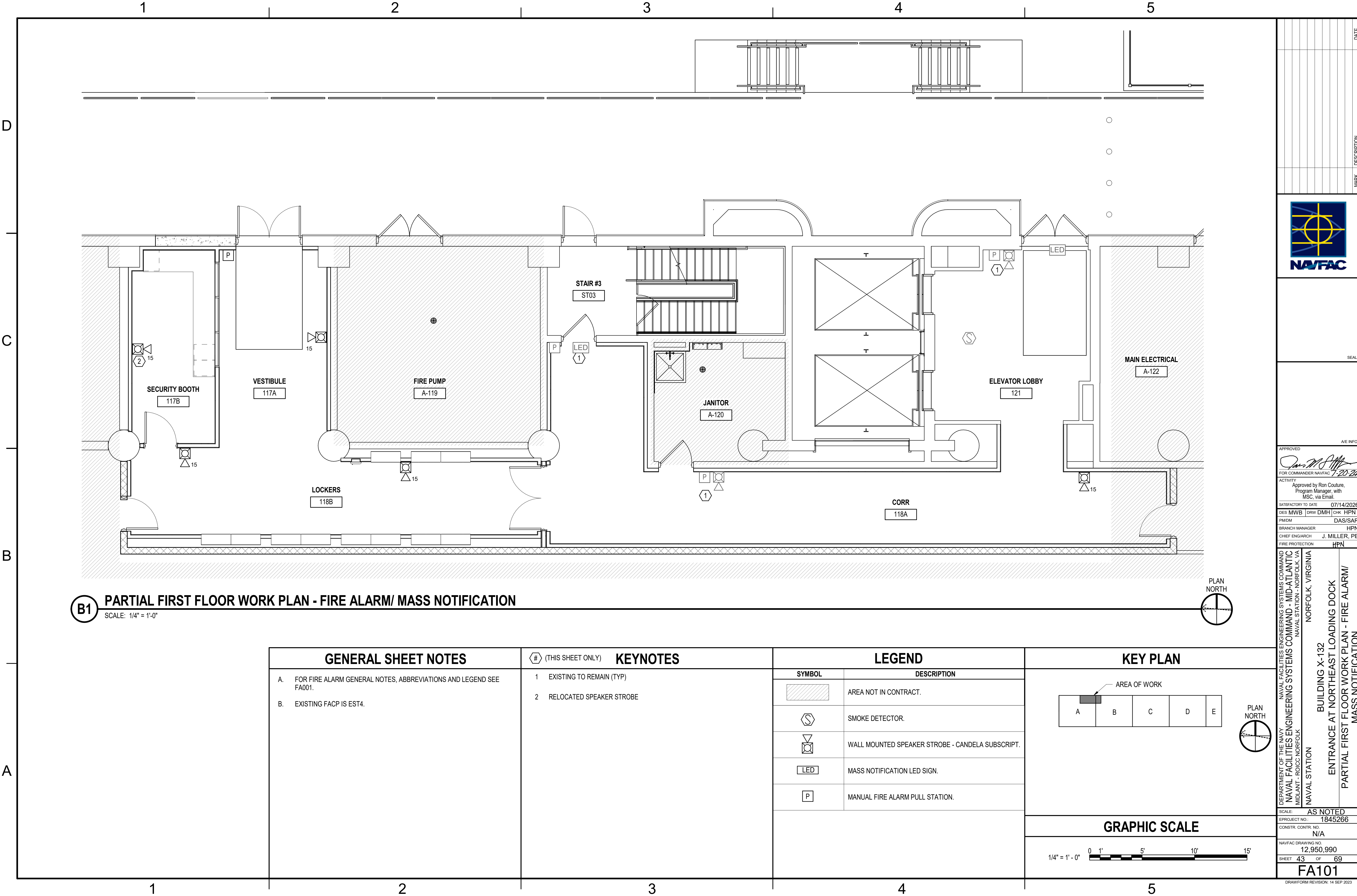
DRAWFORM REVISION: 14 SEP 2023

5

[illegible]

DRAWFORM REVISION: 14 SEP 202

	1	2	3	4	5					
D			GENERAL FIRE ALARM SYSTEM NOTES			DATE				
			1. PROVIDE AN ANALOG/ADDRESSABLE FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE.	17. ALTHOUGH AUDIBLE NOTIFICATION APPLIANCES ARE NOT REQUIRED IN EVERY ROOM, PERFORMANCE MUST ADHERE TO THE AUDIBILITY AND INTELLIGIBILITY CRITERIA WITHIN THE CONTRACT DOCUMENTS.	31. THE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW A MINIMAL QUANTITY OF DEVICES. THEY DO NOT SHOW THE EXACT LOCATION OF COMPONENTS NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR MUST DETERMINE THE FINAL QUANTITY AND LOCATION OF DEVICES/COMPONENTS IN ACCORDANCE WITH THE SPECIFICATIONS, CONTRACT DRAWINGS, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS TO BE COMPLIANT WITH ALL APPLICABLE CODES AND STANDARDS. PROVIDE ADDITIONAL DEVICES FOR A FULLY FUNCTIONING FIRE ALARM SYSTEM, SUBJECT TO APPROVAL BY THE NAVFAC DESIGNATED FIRE PROTECTION ENGINEER (DFPE).					
							2. ALL ANNEX AND ADVISORY MATERIAL OF NFPA 72 MUST BE CONSIDERED MANDATORY.	18. PROVIDE WEATHERPROOF NOTIFICATION APPLIANCES IN AREAS OF SHOWERS, DAMP LOCATIONS, DRYING AREAS, POTENTIALLY CORROSIVE ENVIRONMENTS, UNCONDITIONED AREAS IN SALT AIR ENVIRONMENTS, AND AREAS WITH EXTREME TEMPERATURE CONDITIONS.		
									3. PROVIDE ADDRESSABLE CLASS B SIGNALING LINE CIRCUITS (SLC), CLASS B NOTIFICATION APPLIANCE CIRCUITS (NAC), AND CLASS B INITIATING DEVICE CIRCUITS (IDC).	19. THE SOUND PRESSURE LEVEL OF THE AUDIBLE NOTIFICATION MUST BE A MINIMUM OF 70 DBA AND 15 DBA OVER THE AMBIENT CONDITIONS AT THE MOST REMOTE LOCATION WITHIN THE ROOM OR AREA. THE SOUND PRESSURE LEVEL MUST BE MEASURED OFF THE TEMPORAL TONE PROCEEDING EACH VOICE MESSAGE. THE FOLLOWING CRITERIA MUST BE UTILIZED FOR REVIEW AND APPROVAL OF SHOP DRAWINGS.
5. FIRE ALARM CONTROL PANELS AND EQUIPMENT MUST NOT BE INTERNET PROTOCOL (IP) ENABLED.	21. INTELLIGIBILITY MUST MEET THE FOLLOWING CRITERIA:									
C			6. LOCATE CONTROL PANELS IN A YEAR-ROUND ENVIRONMENTALLY CONDITIONED SPACE THAT COMPLIES WITH THE TEMPERATURE AND HUMIDITY RANGES OF THE PANEL'S UL LISTING.	A. THE SOUND PRESSURE LEVEL MUST BE REDUCED BY 6 DBA EACH TIME THE DISTANCE BETWEEN THE APPLIANCE AND THE LISTENER IS DOUBLED. STARTING DISTANCE IS PER MANUFACTURER'S DATA SHEET, TYPICALLY 10 FT.	MARK					
			7. CIRCUITS/WIRING MUST BE IN CONDUIT (MINIMUM ¾" EMT). VERTICAL DROPS DIRECTLY TO A SINGLE DEVICE/APPLIANCE MAY BE ½". CONDUIT MUST BE CONCEALED IN WALLS, FLOOR SLABS OR CEILINGS UNLESS OTHERWISE INDICATED. EXCEPTION: CONDUIT MAY BE SURFACE MOUNTED ON WALLS AND CEILINGS IN UNFINISHED AREAS (E.G., MECHANICAL ROOM, ELECTRICAL ROOM, RISER ROOM). WHERE CONDUIT SERVES DEVICES NOT MOUNTED DIRECTLY ON THE WALL OR CEILING, THE CONDUIT MUST BE ROUTED AS A SINGLE PENDENT TYPE DROP TO EACH DEVICE.	B. THE SOUND PRESSURE LEVEL MUST BE REDUCED IN ACCORDANCE WITH THE MANUFACTURER'S DATA SHEET FOR SOUND PRESSURE LEVEL DISTRIBUTION NOT PERPENDICULAR TO THE HORN / SPEAKER FACE. REFER TO MANUFACTURER'S TYPICAL SOUND OUTPUT DISTRIBUTION DIAGRAM.						
			8. FIRE ALARM CONDUIT AND JUNCTION BOXES IN UNFINISHED AREAS (INCLUDING AREAS ABOVE CEILINGS) MUST BE PRE-PAINTED RED FROM THE FACTORY. CONDUIT AND JUNCTION BOXES EXPOSED IN FINISHED AREAS MUST BE PAINTED TO MATCH ADJACENT FINISHES. JUNCTION BOXES MUST HAVE A PERMANENT, MACHINE PRINTED LABEL STATING "FIRE ALARM CIRCUIT" ON THE INSIDE COVER.	C. A MINIMUM 15 DBA LOSS MUST BE ASSUMED THROUGH A STANDARD CLOSED DOOR. LOSSES FOR DOORS WITH STC RATINGS GREATER THAN STANDARD DOORS MUST BE CONSIDERED BASED ON THE STC RATING.						
			9. WIRING, CABLES, BOXES, TROUGHS, RACEWAYS, AND OTHER RELATED EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH NFPA 70, NATIONAL ELECTRICAL CODE (NEC). CONDUIT MUST BE SUPPORTED IN STRICT ACCORDANCE WITH THE NEC (E.G., 10 FT INTERVALS AND 3 FT FROM TERMINATION). TENSION ONLY HANGERS ARE NOT PERMITTED (E.G., BATWINGS). TYPE OF CONDUIT UTILIZED MUST BE IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT IS ONLY PERMITTED FOR TERMINATION AT DEVICES MOUNTED ON PIPING OR SUBJECT TO REMOVAL (E.G., FLOW SWITCHES, TAMPER SWITCHES, AUDIO/VISUAL NOTIFICATION APPLIANCES MOUNTED IN REMOVABLE CEILINGS). WHERE PERMITTED, FLEXIBLE CONDUIT MUST BE 6 FEET MAXIMUM IN LENGTH.	D. NORMALLY UNOCCUPIED AREAS OF THE BUILDING ARE PERMITTED TO HAVE A CIS SCORE LESS THAN THE MINIMUM REQUIRED VALUE IF PERSONNEL CAN DETERMINE A VOICE SIGNAL IS BEING BROADCAST AND THEY MUST WALK NO MORE THAN 50 FT TO A LOCATION WITH AT LEAST THE MINIMUM REQUIRED CIS VALUE.						
			10. CONDUCTORS MUST RUN FROM DEVICE TO DEVICE WITHOUT SPLICES. WIRE NUTS AND CRIMPED CONNECTORS ARE PROHIBITED. TERMINAL STRIPS MUST BE UTILIZED WHERE CONDUCTORS CANNOT BE DIRECTLY TERMINATED AT THE DEVICE (E.G., PIGTAILS OFF A HEAT DETECTOR).	22. STROBE SPACING FOR THE FIRE ALARM NOTIFICATION SYSTEM MUST BE IN ACCORDANCE WITH NFPA 72. IN AREAS WITH CEILINGS, PROVIDE CEILING-MOUNTED AUDIOVISUAL NOTIFICATION APPLIANCES. IN AREAS WITHOUT CEILINGS, PROVIDE SUSPENDED OR WALL-MOUNTED AUDIOVISUAL NOTIFICATION APPLIANCES.						
B			11. FIRE ALARM EQUIPMENT PANELS MUST NOT BE USED AS RACEWAY FOR ROUTING POWER WIRING OR LOW VOLTAGE WIRING. ONLY WIRING TERMINATING WITHIN THE PANEL MUST BE ROUTED INTO THE PANEL. POWER WIRING AND POWER LIMITED WIRING MUST BE SEPARATED BY A MINIMUM OF TWO INCHES WITHIN THE EQUIPMENT PANELS.	23. PROVIDE VISUAL NOTIFICATION APPLIANCES IN ALL NORMALLY OCCUPIED, PUBLIC AND COMMON USE AREAS. PROVIDE VISUAL NOTIFICATION APPLIANCES IN NORMALLY UNOCCUPIED AREAS (SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, JANITOR ROOMS, STORAGE AREAS, COMMUNICATION CLOSETS OR OTHER SIMILAR SPACES) GREATER THAN 900 SQ.FT.	SEAL					
			12. POWER SUPPLIES TO FACP, NAC BOOSTER PANELS, AMP BOOSTER PANELS, AND TRANSCEIVER PANELS MUST BE PROVIDED WITH SURGE PROTECTION DEVICES (SPD). SLC, NAC, OR IDC THAT PENETRATE AN EXTERIOR WALL MUST BE PROVIDED WITH SPD. EXCEPTION: CIRCUITS TO DEVICES MOUNTED DIRECTLY ON THE EXTERIOR OF THE BUILDING DO NOT REQUIRE SPD (E.G., EXTERIOR ALARM BELL). SPD MUST BE MOUNTED IN A SEPARATE ENCLOSURE.	24. PROVIDE VISUAL NOTIFICATION IN NORMALLY UNOCCUPIED AREAS WHERE THE AMBIENT NOISE IS LOUD ENOUGH TO REQUIRE HEARING PROTECTION.						
			13. PROVIDE WALL-MOUNTED VISUAL NOTIFICATION APPLIANCES 6 INCHES BELOW FINISHED CEILING OR 80 INCHES AFF, WHICHEVER IS LOWER, TO THE BOTTOM OF THE LENS. PROVIDE WALL-MOUNTED AUDIBLE NOTIFICATION APPLIANCES 80" AFF MINIMUM MEASURED TO THE BOTTOM OF THE DEVICE AND 96" AFF MAXIMUM MEASURED TO THE TOP OF THE DEVICE. MOUNT INTERFACE MODULES, MONITOR MODULES, CONTROL MODULES AND REMOTE TEST SWITCHES NO HIGHER THAN 6 FEET AFF.	25. PROVIDE VISUAL NOTIFICATION IN OFFICES DESIGNED FOR, OR MAY CONTAIN, MORE THAN FOUR PERSONS AT ANY ONE TIME. THIS IS DETERMINED BY THE FURNITURE PLAN AND CHAIRS WITH WORK SURFACES.						
			14. PENETRATIONS OF FIRE RESISTANCE RATED BARRIERS, WALLS, AND SHAFT ENCLOSURES MUST BE CORE-DRILLED AND SEALED WITH APPROVED UL LISTED FIRESTOPPING ASSEMBLIES. COORDINATE WITH FIRESTOPPING CONTRACTOR IN SPECIFICATION DIVISION 7.	26. CARBON MONOXIDE DETECTION MUST COMPLY WITH NFPA 720. CARBON MONOXIDE DETECTORS MUST BE INSTALLED AFTER CLEANUP OF ALL OTHER CONSTRUCTION TRADES.						
			15. COORDINATE WITH ELECTRICAL CONTRACTOR TO INTERFACE WITH THE LIGHTING CONTROL SYSTEM TO TURN ON DESIGNATED OCCUPANCY SENSOR CONTROLLED MEANS OF EGRESS LIGHTING UPON A FIRE ALARM CONDITION. COORDINATE WITH THE NAVFAC DFPE TO IDENTIFY DESIGNATED MEANS OF EGRESS. THIS IS A LIFE SAFETY CODE REQUIREMENT NOT TO BE CONFUSED WITH EMERGENCY LIGHTING.	27. MULTI-CRITERIA DETECTORS ARE PROHIBITED.						
A			16. PROVIDE AUDIBLE NOTIFICATION FOR ALL AREAS AND ROOMS THROUGHOUT THE FACILITY. THE AUDIBLE REQUIREMENTS MUST BE ACCOMPLISHED WITH ALL DOORS, FIRE SHUTTERS, MOVEABLE PARTITIONS, WINDOWS, AND SIMILAR ELEMENTS CLOSED. WHERE THE AUDIBLE REQUIREMENTS ARE NOT ACHIEVED DURING SYSTEM TESTING, PROVIDE ADDITIONAL APPLIANCES TO MEET THE MINIMUM DESIGN CRITERIA REQUIREMENTS AT NO ADDITIONAL COST. AS-BUILT DRAWINGS MUST DEMONSTRATE THAT THE ADDITIONAL DEVICES AND OR MODIFICATIONS DO NOT EXCEED THE LIMITATIONS OF THE FACP, SNAC BOOSTER PANEL, OR AMP BOOSTER PANEL (INCLUSIVE OF SAFETY FACTORS AND REQUIRED SPARE CAPACITY).	28. MANUAL STATIONS MUST BE PROVIDED AT ALL EXITS. THE 200 FOOT TRAVEL DISTANCE REQUIRED BY NFPA 101 DOES NOT APPLY.	A/E INFO					
			17. PROVIDE WEATHERPROOF NOTIFICATION APPLIANCES IN AREAS OF SHOWERS, DAMP LOCATIONS, DRYING AREAS, POTENTIALLY CORROSIVE ENVIRONMENTS, UNCONDITIONED AREAS IN SALT AIR ENVIRONMENTS, AND AREAS WITH EXTREME TEMPERATURE CONDITIONS.	29. PROVIDE A SEPARATE ADDRESS FOR EACH SPRINKLER WATERFLOW SWITCH.						
			18. PROVIDE ADDRESSABLE CLASS B SIGNALING LINE CIRCUITS (SLC), CLASS B NOTIFICATION APPLIANCE CIRCUITS (NAC), AND CLASS B INITIATING DEVICE CIRCUITS (IDC).	30. NO MORE THAN FIVE ADJACENT VALVE TAMPER SWITCHES WITHIN THE SAME ROOM MAY BE MONITORED BY THE SAME ADDRESSABLE DEVICE OR SUPERVISORY CIRCUIT.						
			19. THE SOUND PRESSURE LEVEL OF THE AUDIBLE NOTIFICATION MUST BE A MINIMUM OF 70 DBA AND 15 DBA OVER THE AMBIENT CONDITIONS AT THE MOST REMOTE LOCATION WITHIN THE ROOM OR AREA. THE SOUND PRESSURE LEVEL MUST BE MEASURED OFF THE TEMPORAL TONE PROCEEDING EACH VOICE MESSAGE. THE FOLLOWING CRITERIA MUST BE UTILIZED FOR REVIEW AND APPROVAL OF SHOP DRAWINGS.							
			20. SOUND PRESSURE LEVEL MUST NOT EXCEED 110 DBA IN OCCUPIABLE AREAS.							
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDLANT - ROICC NORFOLK NAVAL STATION BUILDING X-132 ENTRANCE AT NORTHEAST LOADING DOCK FIRE ALARM AND MASS NOTIFICATION SYSTEM NOTES										
APPROVED FOR COMMANDER NAVFAC 7-20-26 ACTIVITY Approved by Ron Couture, Program Manager, with MSC, via Email. SATISFACTORY TO DATE 07/14/2026 DES MWB DRW DMH CHK HPN PMIDM DAS/SAR BRANCH MANAGER HPN CHIEF ENGINEER J. MILLER, PE FIRE PROTECTION HPN										
SCALE: AS NOTED EPROJECT NO.: 1845266 CONSTR. CONTR. NO. N/A NAVFAC DRAWING NO. 12,950,988 SHEET 41 OF 69 FA001										
DRAW/FORM REVISION: 14 SEP 2023										



B1 PARTIAL FIRST FLOOR WORK PLAN - FIRE ALARM/ MASS NOTIFICATION
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES		# (THIS SHEET ONLY) KEYNOTES	LEGEND		KEY PLAN
A. FOR FIRE ALARM GENERAL NOTES, ABBREVIATIONS AND LEGEND SEE FA001. B. EXISTING FACP IS EST4.		1 EXISTING TO REMAIN (TYP) 2 RELOCATED SPEAKER STROBE	SYMBOL	DESCRIPTION	AREA OF WORK A B C D E PLAN NORTH
				AREA NOT IN CONTRACT.	
				SMOKE DETECTOR.	GRAPHIC SCALE 1/4" = 1' - 0"
				WALL MOUNTED SPEAKER STROBE - CANDELA SUBSCRIPT.	
				MASS NOTIFICATION LED SIGN.	
				MANUAL FIRE ALARM PULL STATION.	

DATE

DESCRIPTION

MARK

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Ron Couture, Program Manager, with MSC, via Email.

SATISFACTORY TO DATE

07/14/2026

DES

MWB

DRW

DMH

CHK

HPN

PMIDM

DAS/SAR

BRANCH MANAGER

HPN

CHIEF ENGINEER

J. MILLER, PE

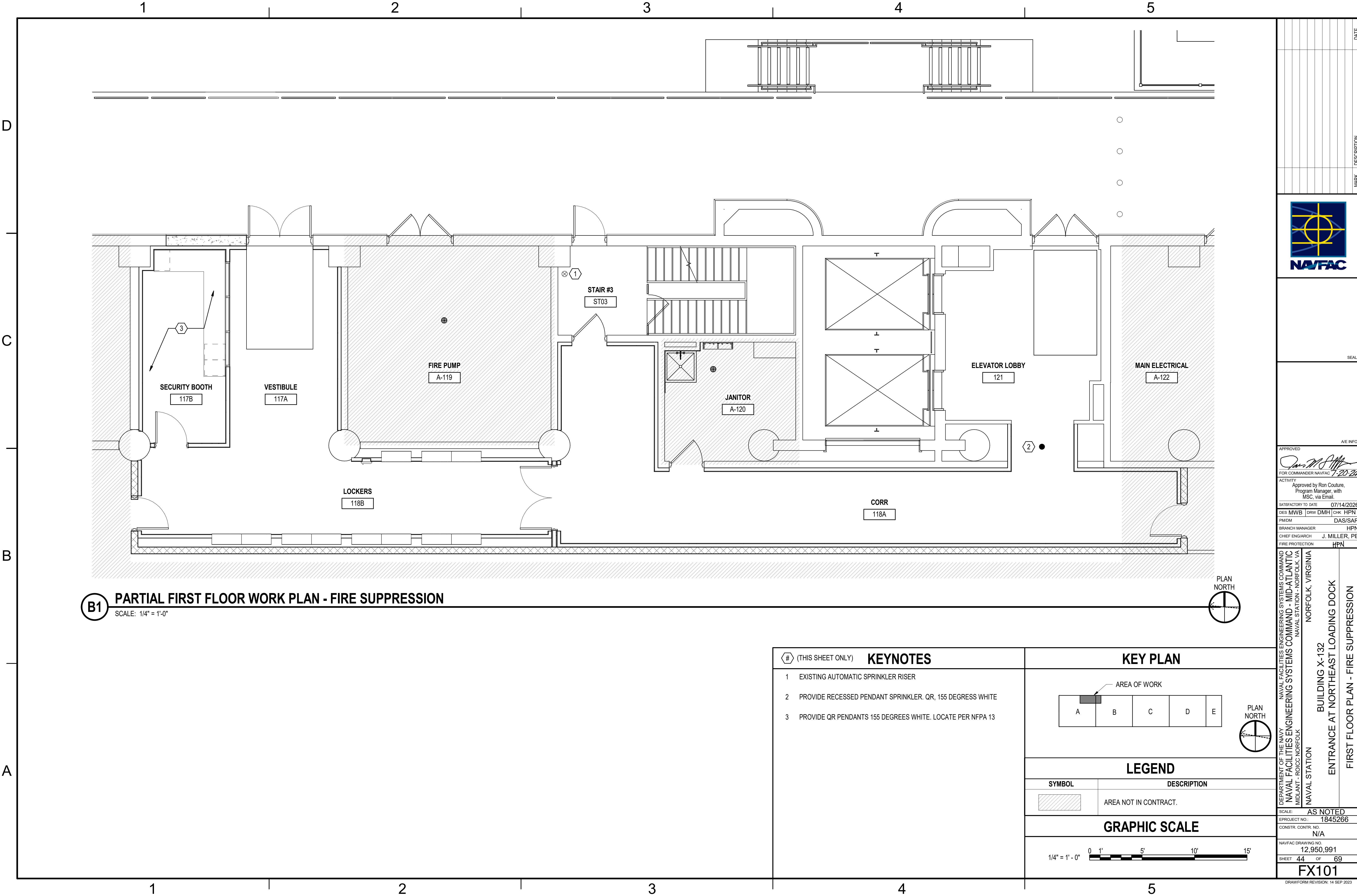
FIRE PROTECTION

HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL STATION
NORFOLK, VIRGINIA

BUILDING X-132
ENTRANCE AT NORTHEAST LOADING DOCK
PARTIAL FIRST FLOOR WORK PLAN - FIRE ALARM/
MASS NOTIFICATION

SCALE: AS NOTED
PROJECT NO.: 1845266
CONSTR. CONTR. NO.: N/A
NAVFAC DRAWING NO.: 12,950,990
SHEET 43 OF 69
FA101
DRAWING REVISION: 14 SEP 2023



B1 PARTIAL FIRST FLOOR WORK PLAN - FIRE SUPPRESSION
SCALE: 1/4" = 1'-0"

# (THIS SHEET ONLY) KEYNOTES		KEY PLAN	
1 EXISTING AUTOMATIC SPRINKLER RISER		AREA OF WORK	
2 PROVIDE RECESSED PENDANT SPRINKLER. QR, 155 DEGRESS WHITE		PLAN NORTH	
3 PROVIDE QR PENDANTS 155 DEGREES WHITE. LOCATE PER NFPA 13			
LEGEND			
SYMBOL	DESCRIPTION		
	AREA NOT IN CONTRACT.		
GRAPHIC SCALE			
1/4" = 1' - 0" 0 1' 5' 10' 15'			

DATE	
MARK	
DESCRIPTION	
SEAL	
A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
Satisfactory to Date	
DESIGNED BY	
CHECKED BY	
PROJECT NO.	
CONTRACT NO.	
DRAWING NO.	
SHEET	
OF	
FX101	
DRAWING REVISION: 14 SEP 2023	

NAVAC

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC

MID-ATLANTIC - ROICC NORFOLK

NAVAL STATION

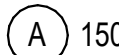
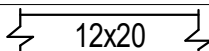
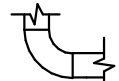
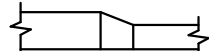
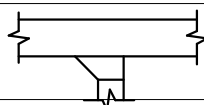
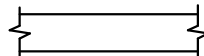
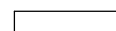
NORFOLK, VIRGINIA

BUILDING X-132

ENTRANCE AT NORTHEAST LOADING DOCK

FIRST FLOOR PLAN - FIRE SUPPRESSION

MECHANICAL LEGEND

*REFER TO GENERAL SHEETS FOR GENERAL SYMBOLS		PIPE LINE TYPES	
	EXISTING ITEMS (SOLID, LIGHT)		CONDENSATE DRAIN
	ITEMS TO BE DEMOLISHED (DASHED)		CHILLED WATER RETURN
	ITEMS TO BE PROVIDED, NEW WORK (SOLID)		CHILLED WATER SUPPLY
	AIR TERMINAL TAG WITH AIR FLOW (CFM)		CONDENSER WATER RETURN
	THERMOSTAT		DROP / RISE IN PIPING
<u>DUCTWORK</u>			
	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN		
	ELBOW		
	ELBOW WITH TURNING VANES		
	DUCT WITH ROUND ELBOW 1.5Ø" TURNING RADIUS MIN.		
	DUCT W/ TRANSITION		
	DUCT BRANCH TAKE-OFF		
	DUCT BREAK (CONTINUATION)		
	SUPPLY DIFFUSER		
	RETURN GRILLE		
<u>DUCT DAMPERS</u>			
	BALANCE VOLUME DAMPER		

GENERAL MECHANICAL NOTES

- A THESE GENERAL MECHANICAL NOTES APPLY TO ALL MECHANICAL DRAWINGS IN THIS SET. SHEET SPECIFIC NOTES ARE INDICATED ON EACH SHEET UNDER GENERAL SHEET NOTES.
- B PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- C INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, APPLICABLE CODES, AND REGULATIONS.
- D EXISTING DUCT AND PIPING SIZES INDICATED ARE APPROXIMATE. FIELD VERIFY ALL EXISTING CONDITIONS.
- E PATCH ALL HOLES FROM REMOVAL OF PIPING, DUCTWORK, OR EQUIPMENT TO MATCH ADJACENT CONSTRUCTION.
- F CONCEAL ALL DUCTWORK AND PIPING ABOVE SUSPENDED CEILINGS AND IN WALLS, UNLESS OTHERWISE NOTED.
- G PROVIDE VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT AND PIPING TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- H ALL 90 DEGREE RECTANGULAR MITERED DUCT ELBOWS IN SUPPLY AND RETURN DUCTWORK SHALL HAVE TURNING VANES. PROVIDE AN ACCESS DOOR UPSTREAM OF ELBOW FOR TURNING VANE INSPECTION AND CLEANING.
- I PROVIDE P-TRAPS IN CONDENSATE DRAIN PIPING AT EACH AC UNIT UNLESS THE RTU IS EQUIPPED WITH AN INTERNAL TRAP.
- J CONDENSATE DRAIN PIPING CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH. COMBINATION WYE AND 1/8 BENDS SHALL BE USED IN LIEU OF TEES, UNLESS OTHERWISE INDICATED ALL CONDENSATE LINES SHALL SLOPE DOWNWARD AND BE GRAVITY FED.
- K MOUNT THERMOSTATS 48 INCHES ABOVE THE FINISHED FLOOR AND RECESSED, FLUSH WITH WALL SURFACE, WHERE POSSIBLE UNLESS OTHERWISE NOTED. SEE ELECTRICAL DRAWINGS FOR COORDINATION WITH LIGHT SWITCHES.
- L MECHANICAL EQUIPMENT, WHICH IS PROVIDED WITH MANUFACTURER'S INSTALLED CONTROLS, SHALL BE STARTED UP BY THE MANUFACTURER'S REPRESENTATIVE IN CONJUNCTION WITH THE CONTROLS CONTRACTOR (NOT MECHANICAL CONTRACTOR). TRAINING AND MANUALS FOR THE MANUFACTURER'S INSTALLED CONTROLS SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER'S REPRESENTATIVE. CONTROLS CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MANUFACTURER'S REPRESENTATIVE FOR THE COMMUNICATION OF THE DDC SYSTEM TO THE MANUFACTURER'S INSTALLED CONTROLS.
- M COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY A LIGHT SWITCH. DO NOT INSTALL THERMOSTATS IN THE CENTER OF WALL.

MECHANICAL ABBREVIATIONS

AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AV	ANALOG VALUE
BAS	BUILDING AUTOMATIC SYSTEM (DDC)
BD	BALANCING DAMPER
BHP	BRAKE HORSEPOWER
BI	BINARY INPUT
BO	BINARY OUTPUT
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BINARY VALUE
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
DCW	DOMESTIC COLD WATER (POTABLE)
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA	DIAMETER
DOAS	DEDICATED OUTSIDE AIR UNIT
DWGS	DRAWINGS
DX	DIRECT EXPANSION
E	EXISTING TO REMAIN
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFECTIVENESS / EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FT	FEET
FT WG	FEET WATER GAUGE
GPM	GALLONS PER MINUTE
IWG	INCHES WATER GAUGE
LWT	LEAVING WATER TEMPERATURE
MBH	1,000 BTUH
MCA	MAXIMUM CIRCUIT AMPS
MIN	MINIMUM
NC	NORMALLY CLOSED, NOISE CRITERIA
NO	NUMBER, NORMALLY OPEN
OA	OUTSIDE AIR
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
UH	UNIT HEATER
V	VOLTS
WB	WET BULB
WPD	WATER PRESSURE DROP
°	DEGREES
Ø	DIAMETER

DESIGN CONDITIONS

	WINTER					SUMMER					
	INDOOR		OUTDOOR			INDOOR		OUTDOOR (1% DB)		OUTDOOR (1% WB)	
	DB (°F)	RH	DB (°F)	WB (°F)		DB (°F)	RH	DB (°F)	WB (°F)	DB (°F)	WB (°F)
CONDITIONED	68	-	27	25		78	50	91	77	87	79
CONDITIONED SETBACK	55	-	27	25		85	50	91	77	87	79
NON-OCCUPIED	55	-	27	25		-	-	91	77	87	79

[illegible]

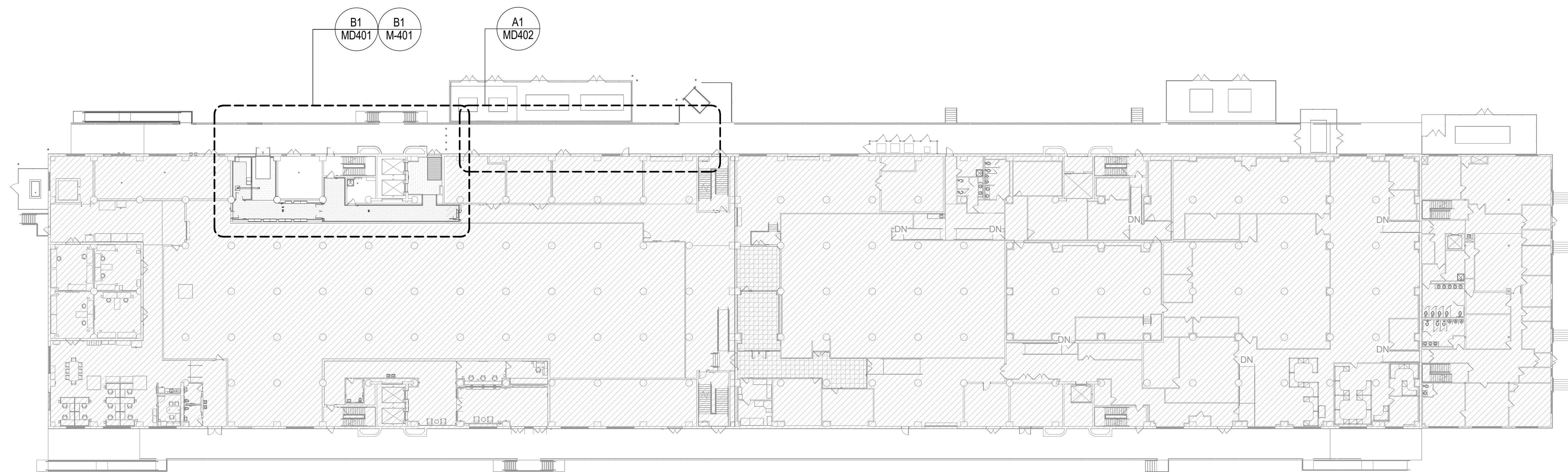
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A/E INFO

APPROVED			
			
FOR COMMANDER NAVFAC 7-20-26			
ACTIVITY			
Approved by Ron Couture, Program Manager, with MSC, via Email.			
SATISFACTORY TO DATE		07/14/2026	
DES WJW	DRW WJW	CHK	OSA
PM/DM		DAS/SAR	
BRANCH MANAGER		ALG	
CHIEF ENG/ARCH		J. MILLER, PE	
FIRE PROTECTION		HPN	

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDLANT - ROICC NORFOLK	NORFOLK, VIRGINIA
NAVAL STATION	BUILDING X-132
	ENTRANCE AT NORTHEAST LOADING DOCK
MECHANICAL LEGEND, ABBREVIATIONS AND NOTES	

SCALE:	AS NOTED	
EPROJECT NO.:	1845266	
CONSTR. CONTR. NO.	N/A	
NAVFAC DRAWING NO.	12,950,992	
SHEET	45	OF 69
M-001		



B1 **OVERALL FIRST FLOOR PLAN**
SCALE: 1" = 30'-0"

[illegible]

SEA

A/F INF

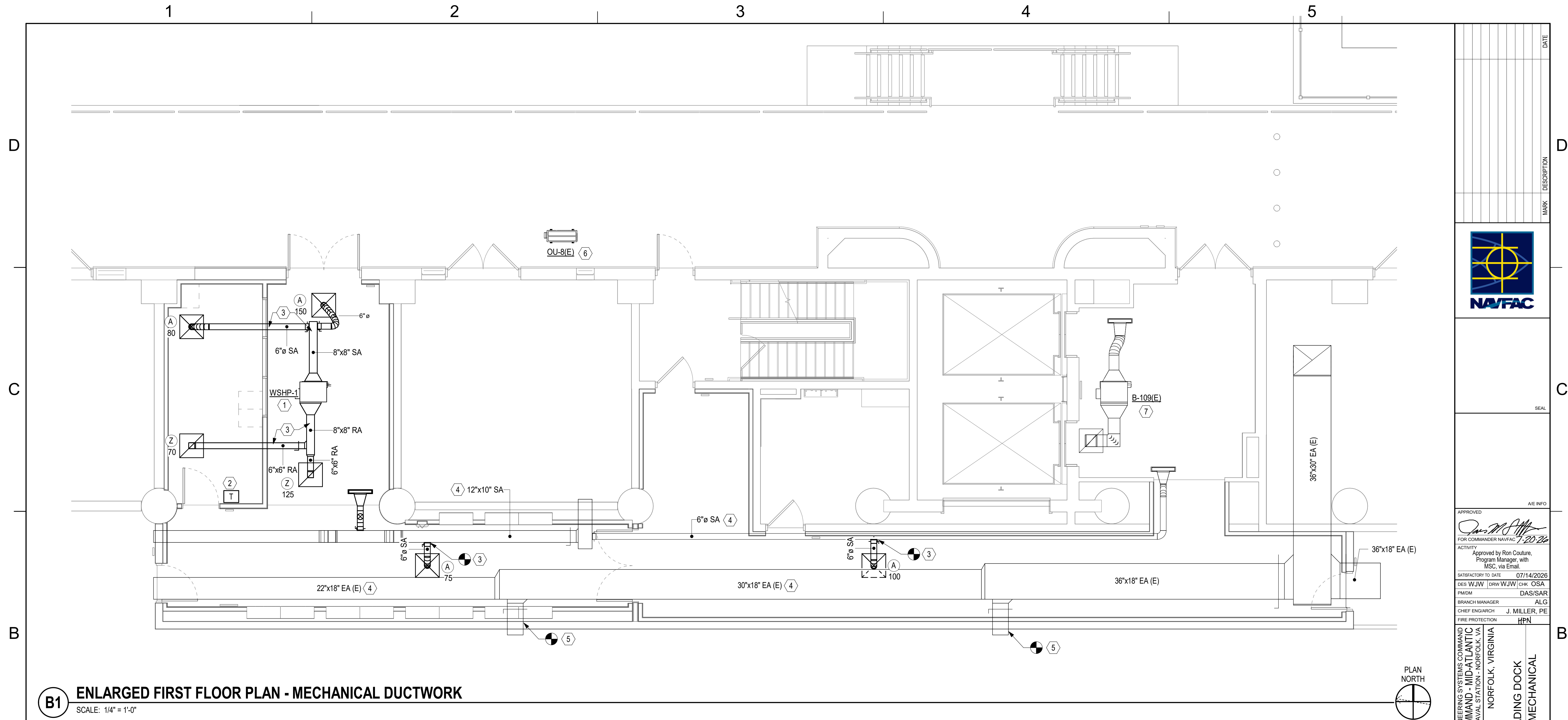
APPROVED	
	
FOR COMMANDER NAVFAC <u>7-20-26</u>	
ACTIVITY	
Approved by Ron Couture, Program Manager, with MSC, via Email.	
SATISFACTORY TO DATE	
07/14/2026	
DES	WJW
DRW	WJW
CHK	OSA
PM/DM	DAS/SAR
BRANCH/MANAGER	ALG
CHIEF ENG/ARCH	J. MILLER, PE
FIRE PROTECTION	HPN

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL STATION
NORFOLK, VIRGINIA

BUILDING X-132

OVERALL FIRST FLOOR PLAN - MECHANICAL

SCALE:	AS NOTED	
EPROJECT NO.:	1845266	
CONSTR. CONTR. NO.	N/A	
NAVFAC DRAWING NO.	12,950,993	
SHEET	46	OF 69
M-100		

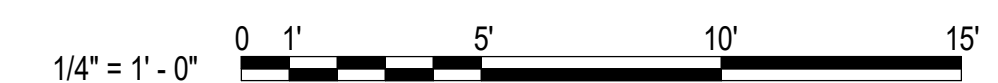


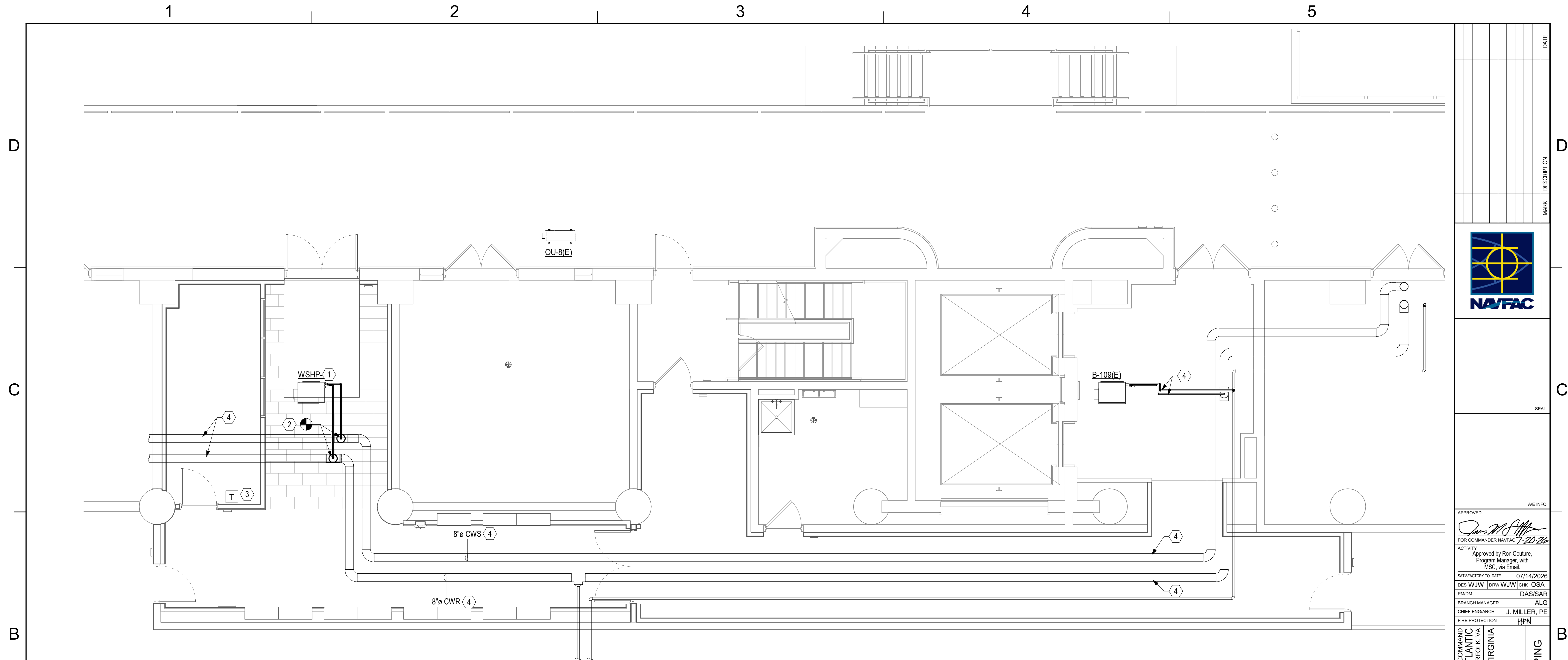
(B1) ENLARGED FIRST FLOOR PLAN - MECHANICAL DUCTWORK

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

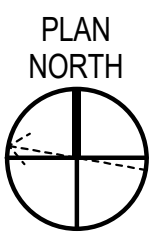
GENERAL SHEET NOTES	KEY NOTES	KEY PLAN
1 REFER TO DETAIL A1 FOR ALL DUCTWORK CONNECTIONS TYPICAL. 2 THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION AND NEW WORK.	# 1 PROVIDE A WATER SOURCE HEAT PUMP. REFER TO DETAILS B2, B4 AND A2 FOR SUPPORTING THE WATER SOURCE HEAT PUMP. 2 PROVIDE A WALL MOUNTED THERMOSTAT. MOUNT 48" ABOVE FINISHED FLOOR. 3 CONNECT NEW DUCTWORK TO THE EXISTING DUCTWORK. ALL EXPOSED DUCTWORK MUST BE PAINTED TO MATCH EXISTING. 4 EXISTING DUCTWORK MUST REMAIN. 5 EXTENDED EXISTING DUCTWORK THROUGH WALL INTO THE WEARHOUSE SPACE. 6 EXISTING DUCTLESS SPLIT SYSTEM OUTDOOR UNIT MUST BE MOUNTED ON STRUCTURAL SUPPORTS A MINIMUM OF 8'-0" ABOVE FINISHED FLOOR. THE CONTRACTOR MUST PROVIDE TEMPORARY COOLING FOR THE SPACES EFFECTED BY THE DOWN TIME OF THE SPLIT SYSTEM. 7 EXISTING WATER SOURCE HEAT PUMP MUST REMAIN IN SERVICE INCLUDING ALL CONTROLS.	PLAN NORTH

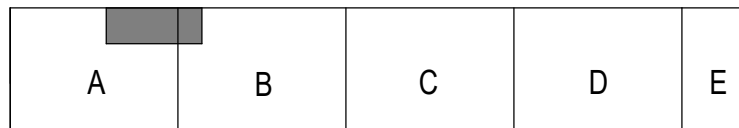
GRAPHIC SCALE

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B1 **ENLARGED FIRST FLOOR PLAN - MECHANICAL PIPING**
SCALE: 1/4" = 1'-0"



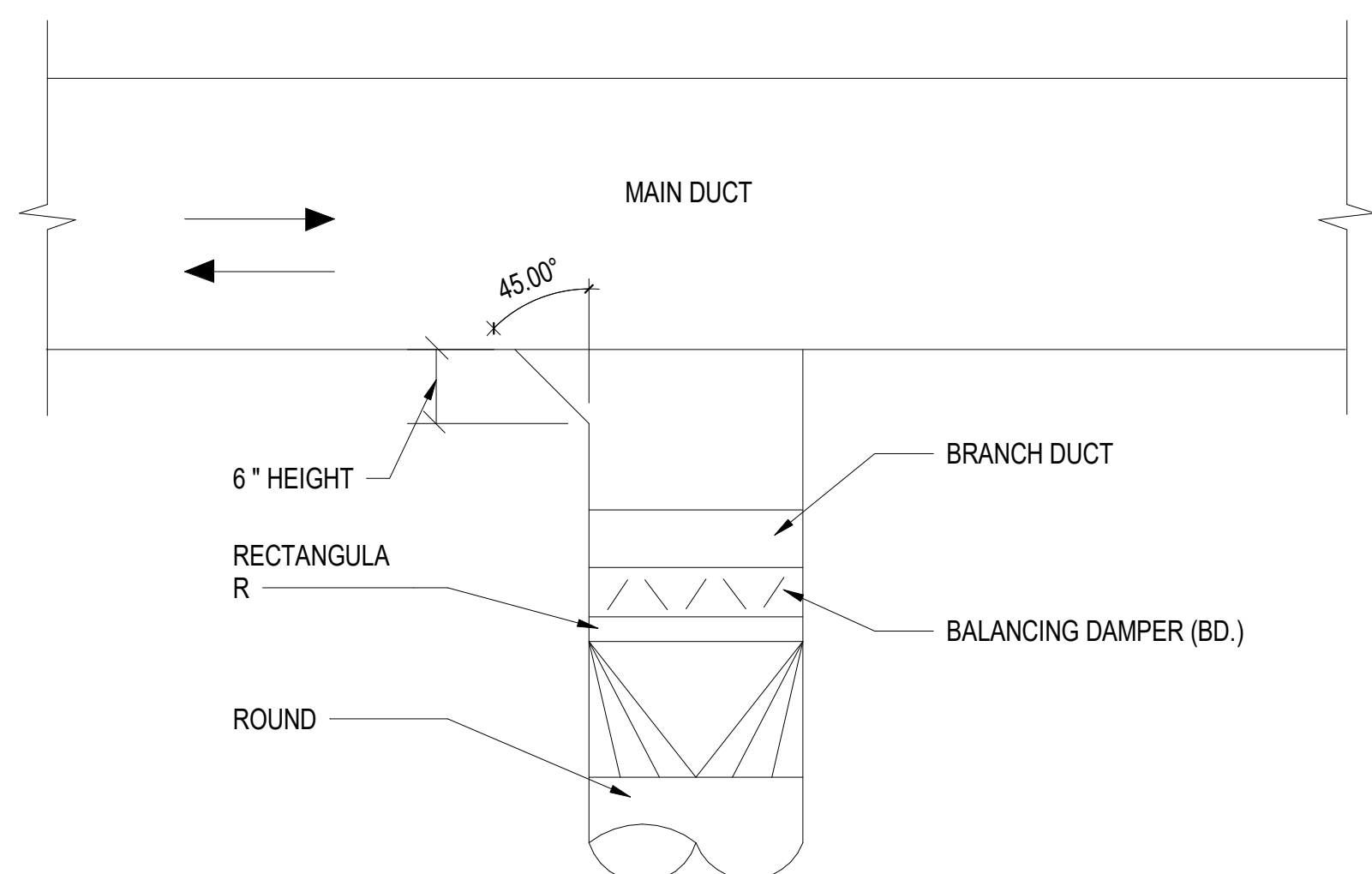
#	KEY NOTES	KEY PLAN
3	1 PROVIDE WATER SOURCE HEAT PUMP. 2 PROVIDE CHILLED WATER SUPPLY AND RETURN PIPING FOR NEW WATER SOURCE HEAT PUMP. CONNECT TO EXISTING CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING. 3 PROVIDE WALL MOUNTED THERMOSTAT. MOUNT 48" ABOVE FINISHED FLOOR. 4 EXISTING PIPING MUST REMAIN.	

PLAN
NORTH


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


GRAPHIC SCALE

[illegible]



A1 **DETAIL - BRANCH CONNECTION**
SCALE: NOT TO SCALE

[illegible]

WATER SOURCE HEAT PUMP SCHEDULE

MARK	QUANTITY			TYPE	FAN DATA		CONDENSER WATER DATA				COOLING DATA (EAT = 78.0°F DB / 63.4°F WB)					HEATING DATA (EAT = 68.°F DB)				ELECTRICAL DATA			NOTES
	WITH FILTER RACK	WITHOUT FILTER RACK	TOTAL		TOTAL AIRFLOW (CFM)	ESP (IN. WC)	FLOW (GPM)	MAX PD (FT. HD.)	RUNOUT PIPE SIZE (IN)	CONNECTION PIPE SIZE (IN)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EWT (°F)	LWT (°F)	MIN EER	CAPACITY (MBH)	EWT (°F)	LWT (°F)	MIN COP	VOLTS/PHASE/HZ	MCA	MOCp	
WSPH-1	80	17	97	HORIZONTAL CONCEALED	230	0.5	1.5	2' - 0"	3/4	1/2	5.8	4.4	85	95.0	12.2	7.1	65	51.3	4.64	265/1/60	4.0	15	1.2
GENERAL NOTES:																							
A. PROVIDE SELF-CONTAINED, ASHRAE 90.1 COMPLIANT UNIT.																							
B. PROVIDE CONDENSATE OVERFLOW SHUT-OFF SWITCH INTERLOCKED WITH UNIT OPERATION.																							
C. PROVIDE INTERNAL VIBRATION ISOLATION ON COMPRESSORS AND FANS.																							
D. PROVIDE WITH VIBRATION ISOLATION HANGERS AND ATFP BRACING.																							
E. PROVIDE CONCEALED UNITS LOCATED ABOVE CEILINGS WITH MANUFACTURER'S STANDARD FILTER RACK (MERV 8 FILTERS), HIGH MERV FILTER SEAL, RETURN DUCT FLANGE, AND ACCESS PANEL.																							
F. PROVIDE EXPOSED UNITS LOCATED IN SPACE WITH RETURN DUCT FLANGE AND WITHOUT MANUFACTURER'S FILTER RACK (FILTRATION VIA MERV 8 FILTER GRILLES).																							
G. PROVIDE WITH WALL MOUNTED 7-DAY PROGRAMMABLE DIGITAL THERMOSTAT AND SUPPLY AIR TEMPERATURE SENSOR.																							
H. PROVIDE WITH MANUFACTURER'S VALVE KIT, INCLUDING BUT NOT LIMITED TO, 2-WAY CONTROL VALVE, PURGING BY-PASS, AND OTHER REQUIRED CONNECTION COMPONENTS.																							
I. PROVIDE MANUFACTURER'S CONTROLLER AND BACNET SUPERVISORY CONTROLLER FOR ADDITIONAL POINTS NOT AVAILABLE BY MANUFACTURER'S CONTROLLER AND INTEGRATE INTO BUILDING BACNET DIRECT DIGITAL CONTROLS (DDC) SYSTEM.																							
J. OTHER MANUFACTURERS MAY BE SUBMITTED FOR APPROVAL.																							
NOTES:																							
1. PROVIDE WITH (1) ROTARY ON/OFF COMPRESSOR AND R-410A REFRIGERANT.																							
2. PROVIDE WITH (1) ECM DIRECT DRIVE BACKWARD CURVED PLENUM SUPPLY FAN.																							

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

MARK	TYPE	SERVICE	NECK SIZE	AIRFLOW RANGE (CFM)	MAX. NC	MAX. PD (IN WG)	NOTES
A	LOUVERED FACE GRILLE	SUPPLY	24"x24"	20-200	25	0.1	1
Z	LOUVERED FACE FILTER GRILLE	RETURN	24"x24"	20-200	-	0.1	2

GENERAL NOTES:

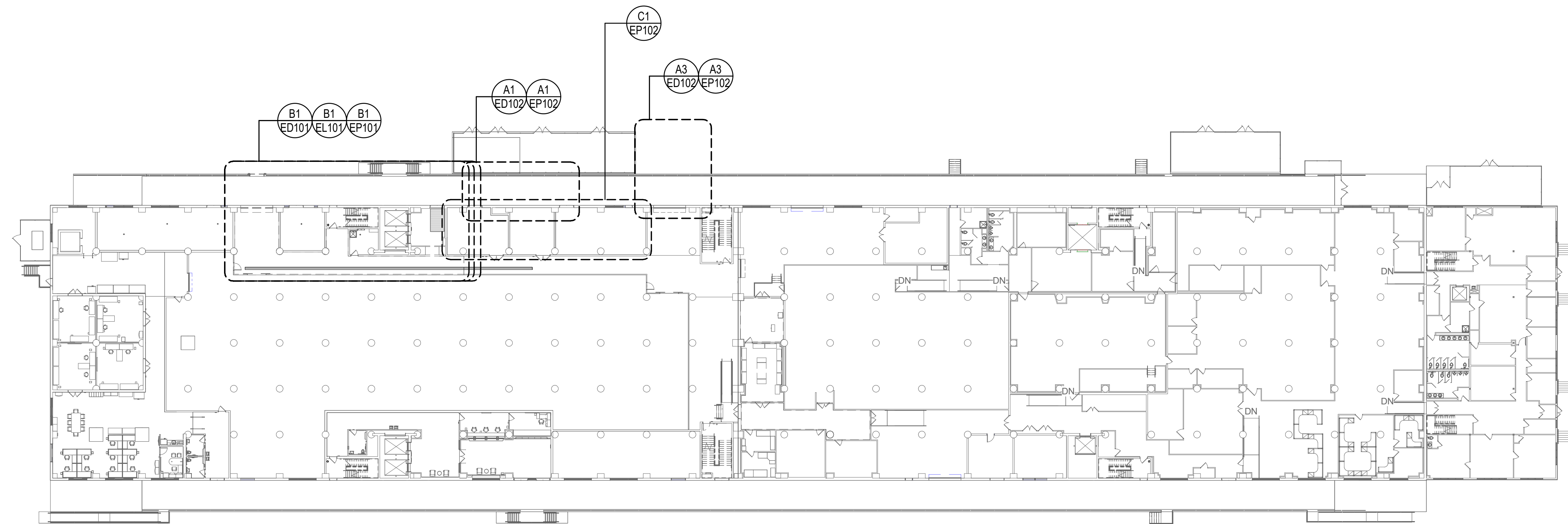
- PROVIDE WITH ALUMINUM CONSTRUCTION: COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING (BAKED WHITE INCLUDING SCREWS).
- CEILING WITH 24"x24" LAY-IN BORDER TYPE AND MOUNTING COMPONENTS FOR MOUNTING IN HARD CEILING/WALL; COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- OTHER MANUFACTURERS MAY BE SUBMITTED FOR APPROVAL.

NOTES:

- PROVIDE WITH 35" BLADE SINGLE DEFLECTION, 3/4" BLADE SPACING, AND BLADES PARALLEL WITH LONG DIMENSION.
- PROVIDE WITH 35" BLADE SINGLE DEFLECTION, 3/4" BLADE SPACING, BLADES PARALLEL WITH LONG DIMENSION, 2" FILTER FRAME, HINGED FACE, KNURLED KNOB, AND 2" MERV-8 FILTER.

[illegible]

[illegible]

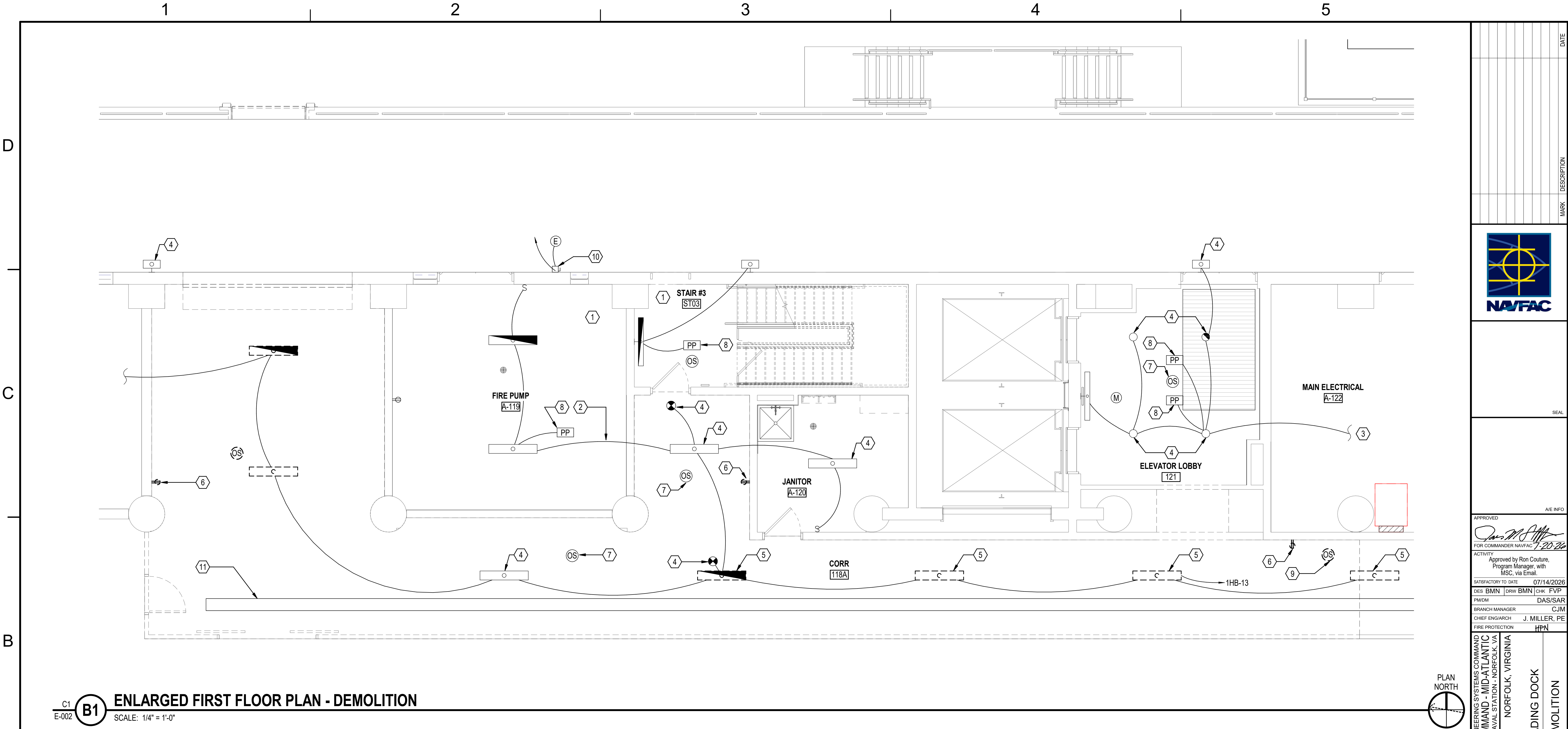
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APPROVED	
	
FOR COMMANDER NAVFAC 7-202	
ACTIVITY	
Approved by Ron Couture, Program Manager, with MSC, via Email.	
SATISFACTORY TO DATE 07/14/2012	
DES BMN	DRW BMN CHK FVR
PM/DM	DAS/SA
BRANCH MANAGER C.J.	
CHIEF ENG/ARCH J. MILLER, F	
FIRE PROTECTION HPN	

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	
MIDANT - ROICC NORFOLK	NAVAL STATION - NORFOLK, VA
NAVAL STATION	NORFOLK, VIRGINIA
BUILDING X-132	
ENTRANCE AT NORTHEAST LOADING DOCK	
OVERALL FIRST FLOOR PLAN	

SCALE:	AS NOTED	
EPROJECT NO.:	1845266	
CONSTR. CONTR. NO.	N/A	
NAVFAC DRAWING NO.	12,951,002	
SHEET	55	OF 69
E-002		

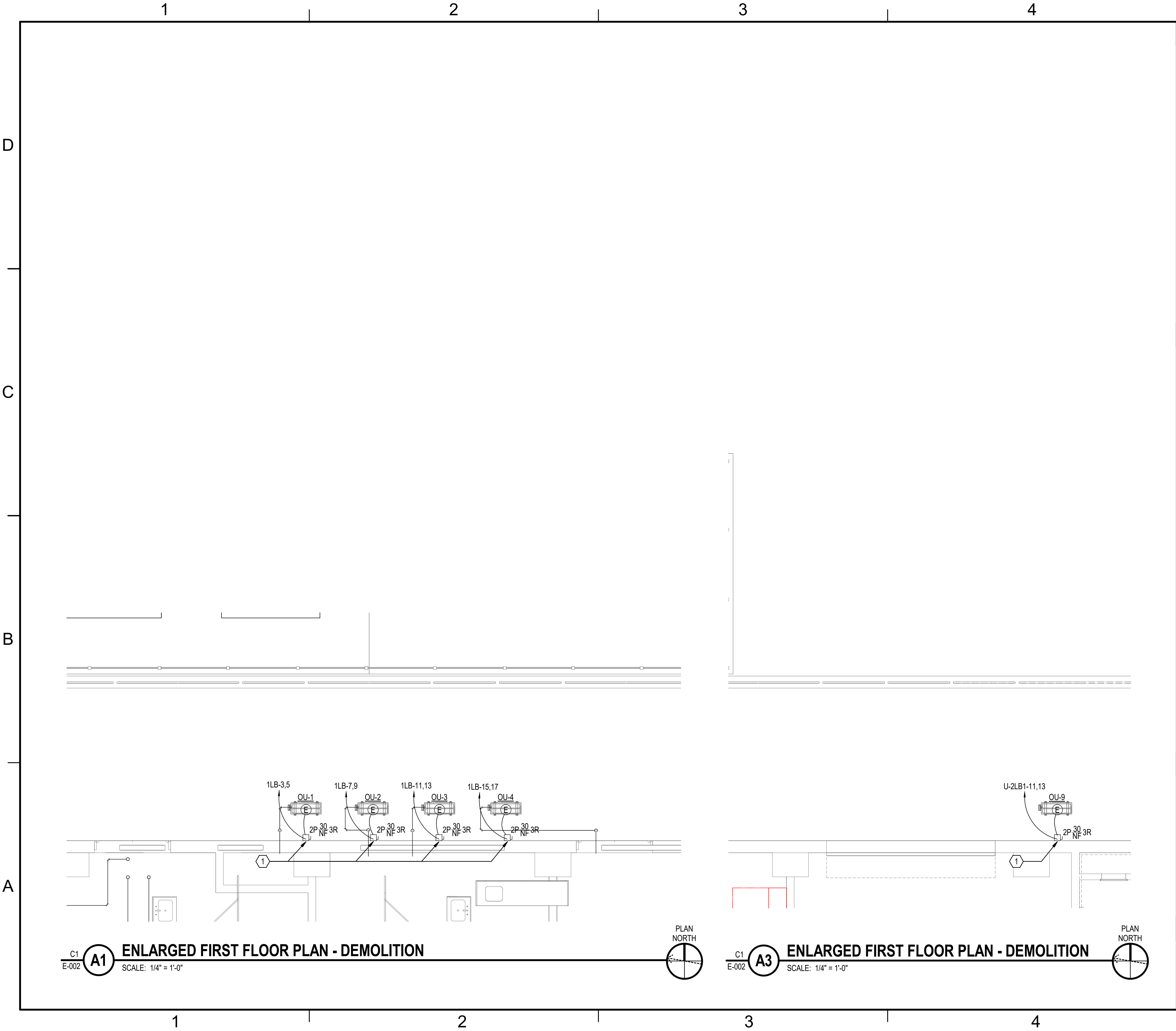
DRAWFORM REVISION: 14 SEP 2023



GENERAL SHEET NOTES		# (THIS SHEET ONLY)	KEYNOTES	KEY PLAN
A	A	REFER TO SHEET E-001 FOR GENERAL ELECTRICAL NOTES.	1	AREA OF WORK PLAN NORTH LEGEND SYMBOL DESCRIPTION AREA NOT IN CONTRACT. GRAPHIC SCALE 1/4" = 1' - 0"
	B	PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. REROUTE AND RECONNECT CIRCUITS (POWER AND TELECOMMUNICATIONS) THAT WILL REMAIN IN USE, BUT INTERFERES WITH NEW CONSTRUCTION. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND DISCONNECT FROM ALL POWER SOURCES.	2	
	C	ALL EXISTING CONDUITS THAT WILL NOT BE REUSED MUST BE REMOVED. ONLY CONDUITS IN WALLS THAT ARE TO REMAIN AND THAT DO NOT INTERFERE WITH NEW WORK MAY BE ABANDONED IN PLACE.	3	
	D	ALL MATERIALS REMOVED UNDER DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED COMPLETELY OFF SITE.	4	
	E	CIRCUITS SHOWN ARE BASED ON FIELD AND DRAWING INVESTIGATIONS. VERIFY ALL CIRCUITS PRIOR TO DEMOLITION.	5	
	F	REFER TO ARCHITECTURAL SHEETS FOR EACH ROOM UNIT TYPE.	6	
	G	CONDUIT AND WIRING FEEDING DEVICES, LIGHTING FIXTURES, AND EQUIPMENT CONNECTIONS LOCATED OUTSIDE OF SECURE BOUNDARY MUST NOT BE RUN THROUGH SECURE BOUNDARY. ROUTE CONDUIT AND CABLES AROUND SECURE BOUNDARY FROM SOURCE PANEL.	7	
			8	
			9	
			10	
			11	

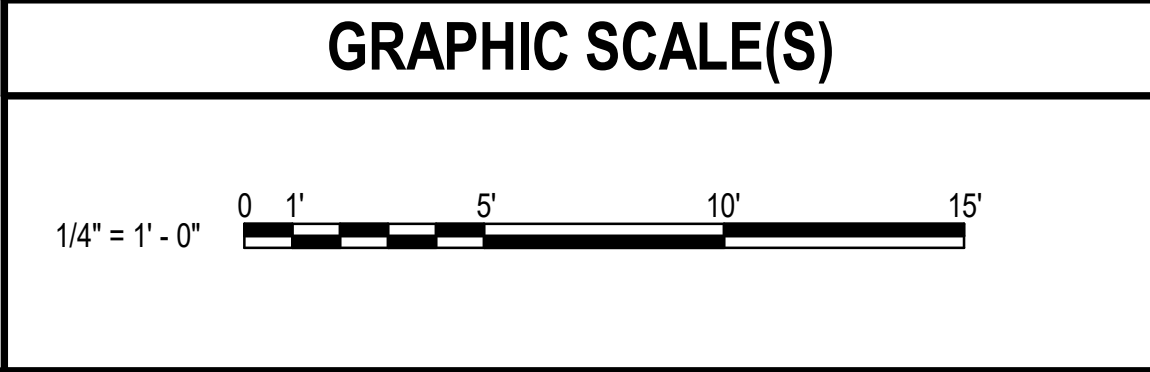
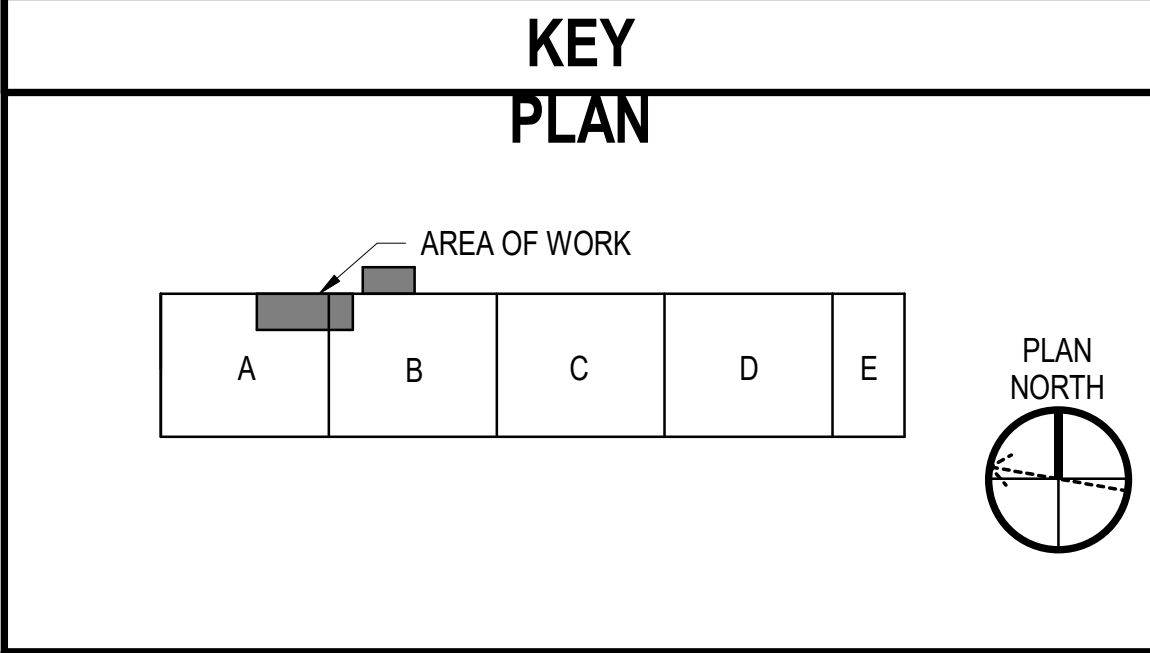
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DATE	
DESCRIPTION	
MARK	
SEAL	
A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	Approved by Ron Couture, Program Manager, with MSC, via Email.
SATISFACTORY TO DATE	07/14/2026
DES	BMN
DRW	BMN
CHK	FVP
PM/DM	DAS/SAR
BRANCH MANAGER	CJM
CHIEF ENGINEER	J. MILLER, PE
FIRE PROTECTION	HPN
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	
MIDLAND - ROICC NORFOLK	
NAVAL STATION - NORFOLK, VA	
NORFOLK, VIRGINIA	
NAVAL STATION	
BUILDING X-132	
ENTRANCE AT NORTHEAST LOADING DOCK	
ENLARGED FLOOR PLAN - DEMOLITION	
SCALE	AS NOTED
PROJECT NO.	1845266
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12.951.003
SHEET	56 OF 69
ED101	
DRAWING REVISION: 14 SEP 2023	

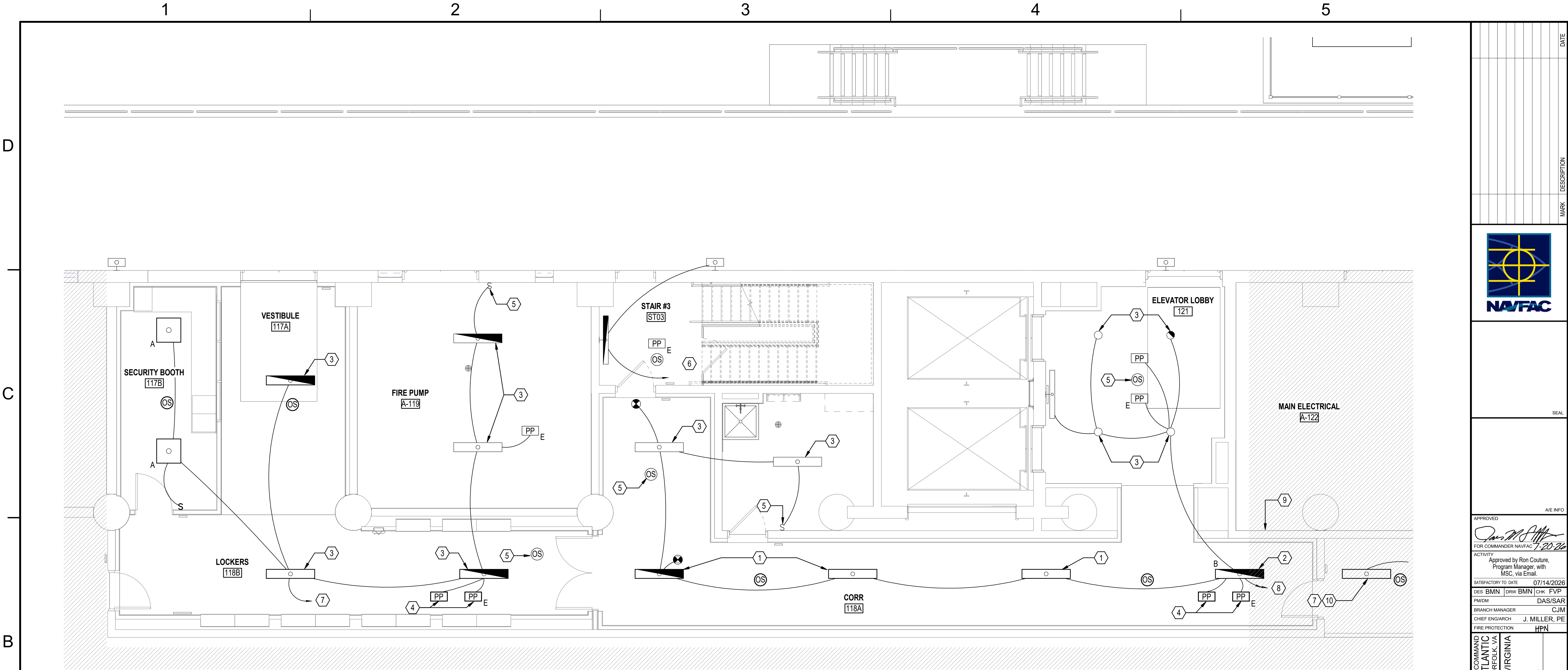


GENERAL SHEET	
NOTES	
A	EQUIPMENT SHOWN WITH IN MUST BE REMOVED, UON.
B	WIRING TO EQUIPMENT MUST BE REMOVED, UON.
C	CONDUIT MUST BE REMOVED, UON.
D	CONDUIT CONCEALED IN WALLS AND SLABS MUST BE BLANKED OFF AND ABANDONED IN PLACE. PATCH WALLS AND SLABS AFTER DEMOLITION IS COMPLETE.
E	BOXES DISCONTINUED MUST BE BLANKED OFF OR REMOVED AND DEVICES REMOVED.
F	EXISTING ELECTRICAL EQUIPMENT NOT INDICATED ON DEMOLITION PLAN MUST REMAIN CONNECTED FOR CONTINUED USE.
G	RECONNECT EXISTING CIRCUIT(S) (INTERRUPTED BY REMOVAL OF EXISTING DEVICE) TO THE REMAINING ELECTRICAL EQUIPMENT LOCATED DOWNSTREAM FROM THE POINT OF INTERRUPTION.

# (THIS SHEET ONLY) KEYNOTE	
1	DISCONNECT EXISTING DISCONNECT SWITCH AND PRESERVE FOR NEW WORK. DEMO CONDUIT AND WIRING BETWEEN DISCONNECT SWITCH AND MECHANICAL UNIT. PRESERVE CKT FOR RECONNECTION IN NEW WORK.



DATE	
DESCRIPTION	
MARK	
SEAL	
A/E INFO	
APPROVED FOR COMMANDER NAVFAC 7-20-26 ACTIVITY Approved by Ron Couture, Program Manager, with MSC, via Email. SATISFACTORY TO DATE 07/14/2026 DES BMN DRW BMN CHK FVP PMIDM DAS/SAR BRANCH MANAGER CJM CHIEF ENGINEER J. MILLER, PE FIRE PROTECTION HPN	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDLAND - ROICC NORFOLK NAVAL STATION NORFOLK, VIRGINIA BUILDING X-132 ENTRANCE AT NORTHEAST LOADING DOCK ENLARGED FLOOR PLANS - DEMOLITION	
SCALE: AS NOTED PROJECT NO.: 1845266 CONSTR. CONTR. NO.: N/A NAVFAC DRAWING NO.: 12.951.004 SHEET 57 OF 69 ED102 DRAWING REVISION: 14 SEP 2023	



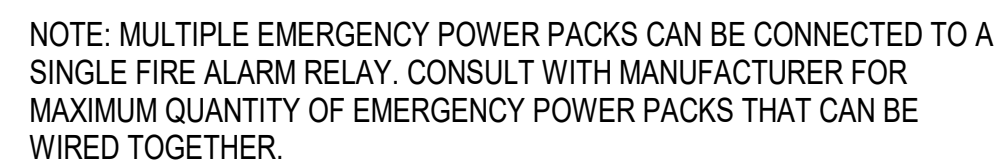
C1
E-002

B1 ENLARGED FIRST FLOOR PLAN - LIGHTING

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

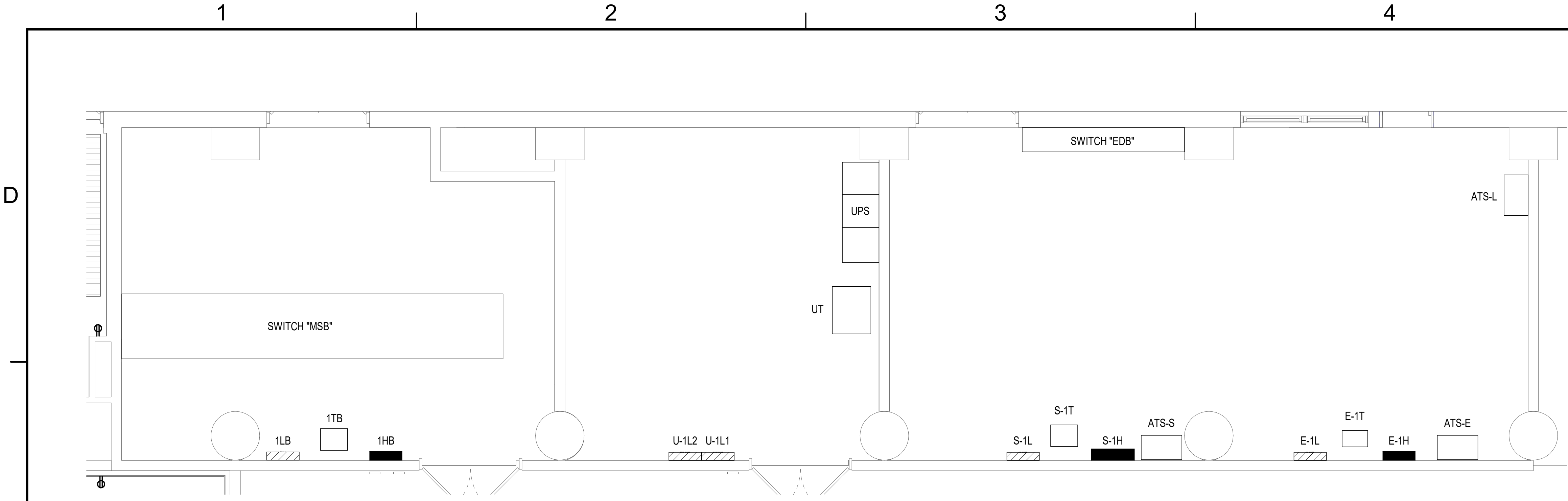
A	GENERAL SHEET NOTES		# (THIS SHEET ONLY)		KEYNOTES		KEY PLAN					
	A	REFER TO SHEET E-001 FOR GENERAL ELECTRICAL NOTES.	G	CONDUIT AND WIRING FEEDING DEVICES, LIGHTING FIXTURES, AND EQUIPMENT CONNECTIONS LOCATED OUTSIDE OF SECURE BOUNDARY MUST NOT BE RUN THROUGH SECURE BOUNDARY. ROUTE CONDUIT AND CABLES AROUND SECURE BOUNDARY FROM SOURCE PANEL.	1	RELOCATE EXISTING FIXTURE PRESERVED DURING DEMOLITION. PROVIDE CIRCUIT INDICATED.	7	NORMAL POWER FOR FIXTURES IN UNSECURED SPACE IS FED FROM PANEL 1HB, CKT 7. EMERGENCY POWER FOR FIXTURES IN UNSECURED SPACE IS FED FROM E-1H, CKT 10. PROVIDE CONDUIT AND WIRING TO RECONNECT EXISTING FIXTURES SALVAGED DURING DEMOLITION. PROVIDE WIRE AND CONDUIT TO RECONNECT LIGHTING CONTROLS. FEEDERS FOR FIXTURES MUST NOT BE RUN IN SECURE AREA AND MUST BE ROUTED OUTSIDE OF SECURE BOUNDARY.				
	B	PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. REROUTE AND RECONNECT CIRCUITS (POWER AND TELECOMMUNICATIONS) THAT WILL REMAIN IN USE, BUT INTERFERES WITH NEW CONSTRUCTION. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND DISCONNECT FROM ALL POWER SOURCES.			2	PROVIDE FIXTURE TO MATCH EXISTING FIXTURE TYPE INDICATED.		AREA OF WORK A B C D E PLAN NORTH				
	C	ALL EXISTING CONDUITS THAT WILL NOT BE REUSED MUST BE REMOVED. ONLY CONDUITS IN WALLS THAT ARE TO REMAIN AND THAT DO NOT INTERFERE WITH NEW WORK MAY BE ABANDONED IN PLACE.			3	EXISTING FIXTURE PRESERVED DURING DEMOLITION. PROVIDE WIRING AND CONDUIT TO RECONNECT TO CIRCUIT INDICATED.	8	NORMAL POWER FOR FIXTURES IN SECURE SPACES FED FROM PANEL 1HB, CKT 13. EMERGENCY POWER FOR FIXTURES IN SECURED AREA FED FROM PANEL E-1H, CKT 26. PROVIDE CONDUIT AND WIRING TO RECONNECT EXISTING FIXTURES PRESERVED DURING DEMOLITION. PROVIDE WIRE AND CONDUIT TO RECONNECT LIGHTING CONTROLS. FEEDERS PROVIDING POWER IN SECURE AREA MUST ONLY SERVE SECURED AREA.				
	D	ALL MATERIALS REMOVED UNDER DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED COMPLETELY OFF SITE.			4	PROVIDE POWER PACK AND EMERGENCY POWER PACK FOR LIGHTING CONTROLS. CONNECT EMERGENCY POWER PACK TO FIRE ALARM RELAY PER MANUFACTURER'S REQUIREMENTS. SEE "EMERGENCY POWER PACK WIRING DIAGRAM ON SHEET EL501 FOR ADDITIONAL DETAIL.	9	ROUTE ALL PENETRATIONS THROUGH SECURE BOUNDARY FOR POWER TO LIGHTING IN THIS LOCATION. PROVIDE DIELECTRIC BREAK FOR CONDUIT ON SECURE SIDE. SEE SHEET EP501 FOR ELECTRICAL DETAILS.				
	E	CIRCUITS SHOWN ARE BASED ON FIELD AND DRAWING INVESTIGATIONS. VERIFY ALL CIRCUITS PRIOR TO DEMOLITION.			5	EXISTING LIGHTING CONTROLS PRESERVED DURING DEMOLITION. RECONNECT AS INDICATED.	LEGEND <table><tr><th>SYMBOL</th><th>DESCRIPTION</th></tr><tr><td> </td><td>AREA NOT IN CONTRACT.</td></tr></table>		SYMBOL	DESCRIPTION		AREA NOT IN CONTRACT.
	SYMBOL	DESCRIPTION										
	AREA NOT IN CONTRACT.											
F	REFER TO ARCHITECTURAL SHEETS FOR EACH ROOM UNIT TYPE.			6	EXISTING FIXTURES, CONTROLS, AND CKT PRESERVED DURING DEMOLITION. PROVIDE WIRE AND CONDUIT TO EXTEND CKT AS NECESSARY TO ROUTE CKT FEED OUTSIDE OF SECURE AREA.	GRAPHIC SCALE 1/4" = 1' - 0" 0 1' 5' 10' 15'						

DATE	
DESCRIPTION	
MARK	
SEAL	
A/E INFO	
APPROVED FOR COMMANDER NAVAC 7-20-26	
ACTIVITY Approved by Ron Couture, Program Manager, with MSC, via Email.	
SATISFACTORY TO DATE 07/14/2026	
DES BMN	DRW BMN
PMIDM	DAS/SAR
BRANCH MANAGER	CJM
CHIEF ENGINEER	J. MILLER, PE
FIRE PROTECTION	HPN
NAVAC STATION - NORFOLK, VIRGINIA	
BUILDING X-132	
ENTRANCE AT NORTHEAST LOADING DOCK	
FLOOR PLAN - LIGHTING	
EL101	
DRAWING NO. 12,951,005	
SHEET 58 OF 69	
DRAWING REVISION: 14 SEP 2023	



SCALE: NOT TO SCALE

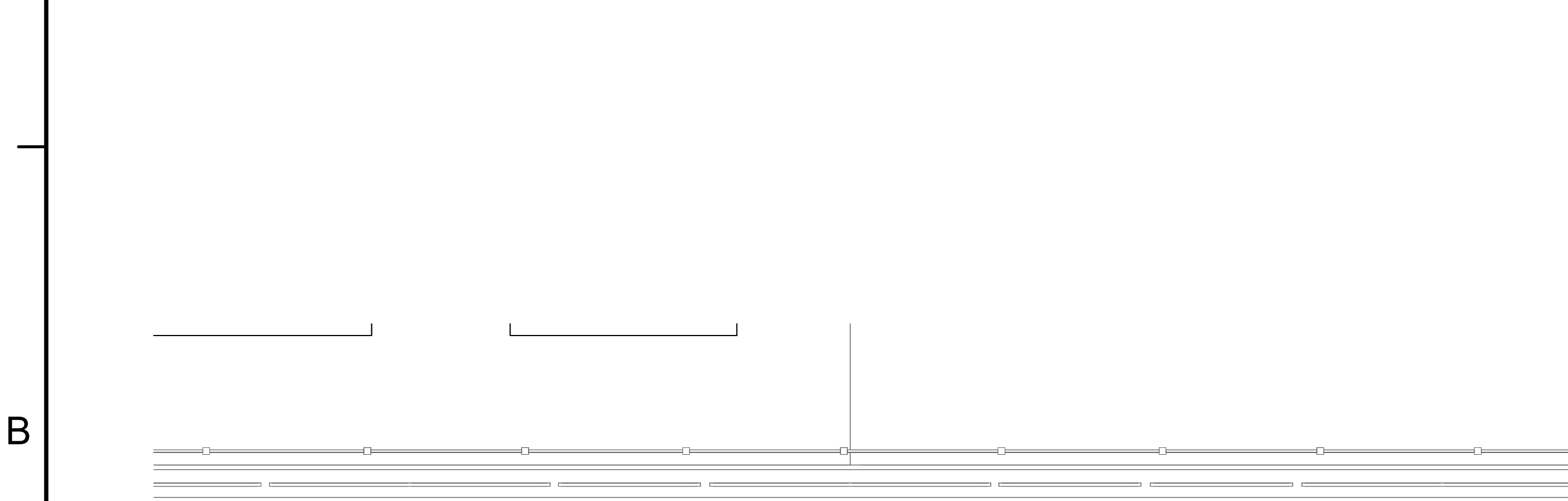
DRAWFORM REVISION: 14 SEP 2023



C1
E-002

C1 ENLARGED ELECTRICAL ROOM PLAN

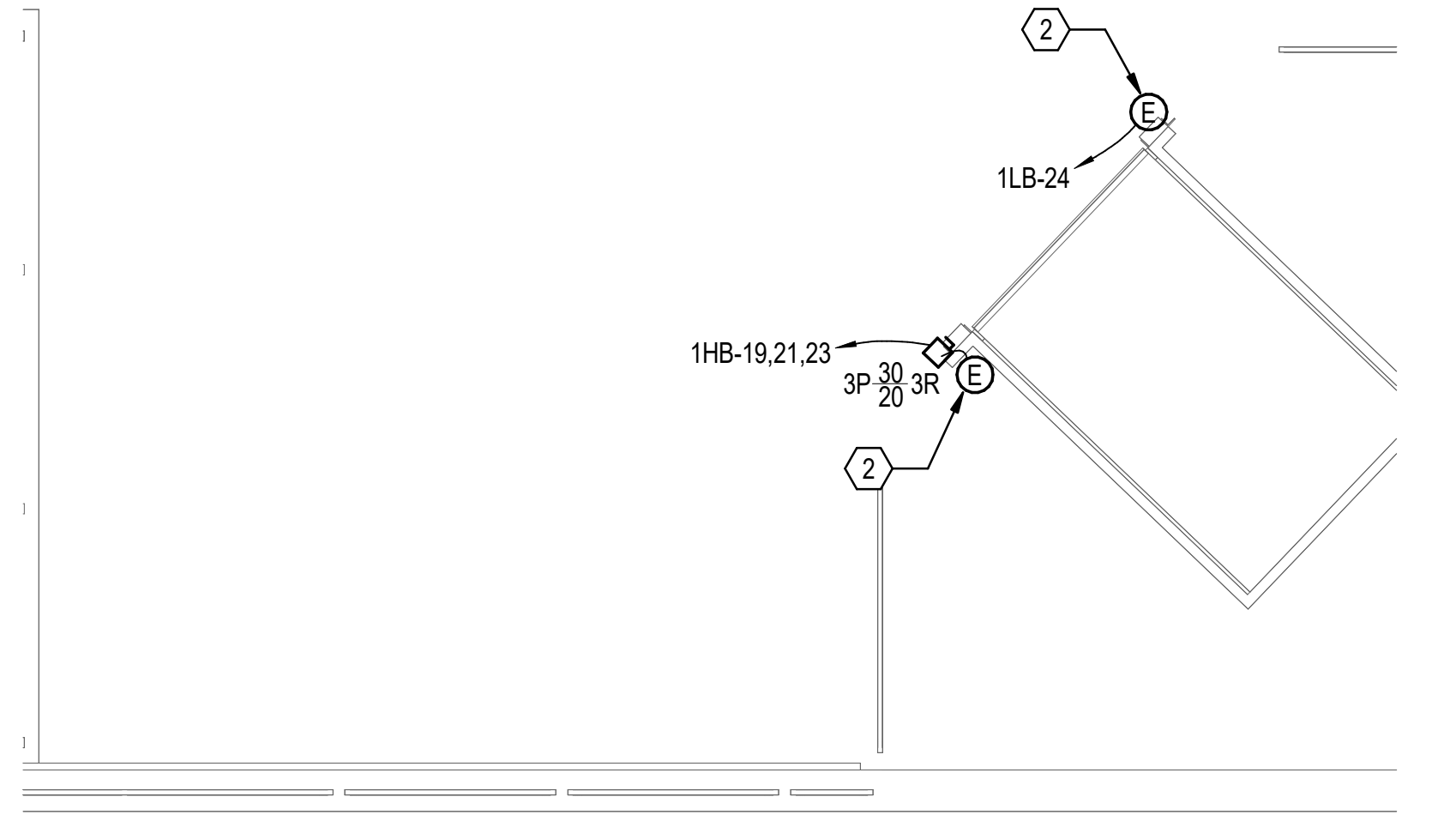
SCALE: 1/4" = 1'-0"



C1
E-002

A1 ENLARGED FIRST FLOOR PLAN - POWER

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



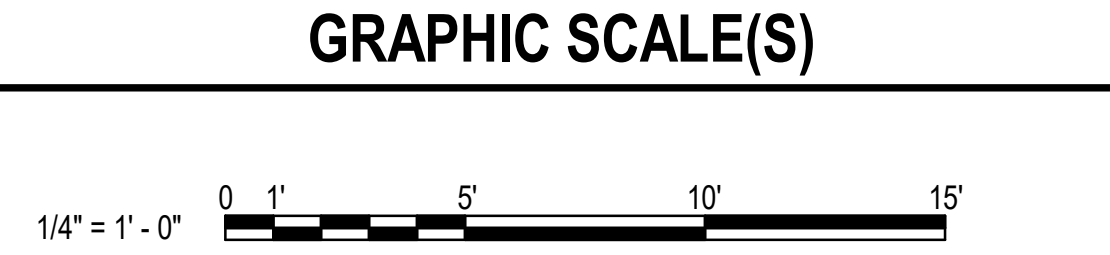
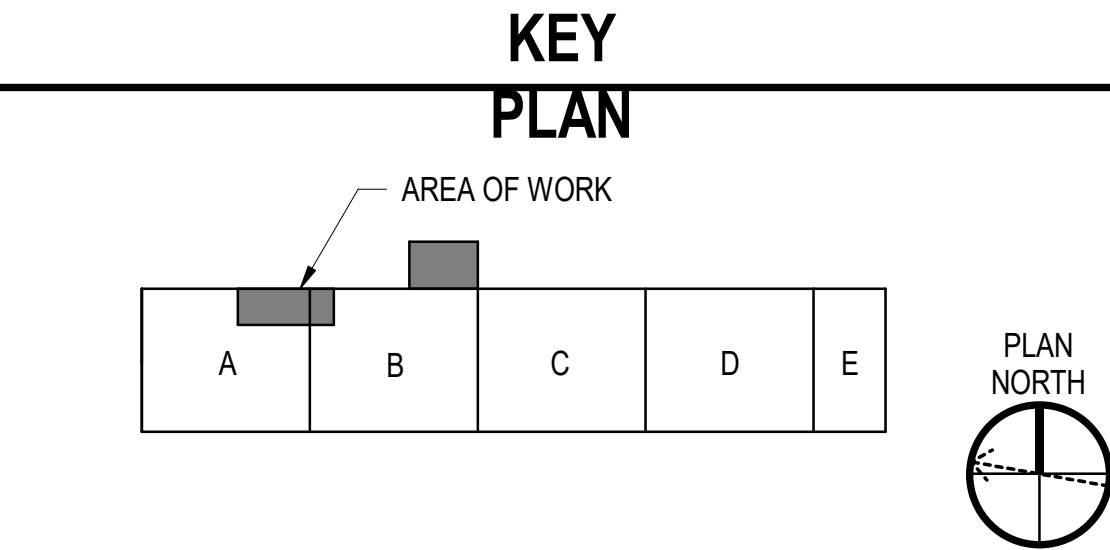
C1
E-002

A3 ENLARGED FIRST FLOOR PLAN - POWER

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

- ### GENERAL SHEET
- #### NOTES
- A REFER TO SHEET E-001 FOR GENERAL ELECTRICAL NOTES.
 - B PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. REROUTE AND RECONNECT CIRCUITS (POWER AND TELECOMMUNICATIONS) THAT WILL REMAIN IN USE, BUT INTERFERES WITH NEW CONSTRUCTION. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND DISCONNECT FROM ALL POWER SOURCES.
 - C ALL EXISTING CONDUITS THAT WILL NOT BE REUSED MUST BE REMOVED. ONLY CONDUITS IN WALLS THAT ARE TO REMAIN AND THAT DO NOT INTERFERE WITH NEW WORK MAY BE ABANDONED IN PLACE.
 - D ALL MATERIALS REMOVED UNDER DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED COMPLETELY OFF SITE.
 - E CIRCUITS SHOWN ARE BASED ON FIELD AND DRAWING INVESTIGATIONS. VERIFY ALL CIRCUITS PRIOR TO DEMOLITION.
 - F REFER TO ARCHITECTURAL SHEETS FOR EACH ROOM UNIT TYPE.
 - G CONDUIT AND WIRING FEEDING DEVICES, LIGHTING FIXTURES, AND EQUIPMENT CONNECTIONS LOCATED OUTSIDE OF SECURE BOUNDARY MUST NOT BE RUN THROUGH SECURE BOUNDARY. ROUTE CONDUIT AND CABLES AROUND SECURE BOUNDARY FROM SOURCE PANEL.

- ### KEYNOTE
- 1 EXISTING DISCONNECT SWITCH PRESERVED DURING DEMOLITION. PROVIDE 2-#10 AWG AND 1-#10 G IN 1/2" RIGID STEEL CONDUIT FROM DISCONNECT SWITCH TO RELOCATED MECHANICAL UNIT ON INDICATED CKT PRESERVED DURING DEMOLITION.
 - 2 PROVIDE ELECTRICAL CONNECTION TO DOCK LEVELER AND LEVELER CONTROLS. PROVIDE 4-#10 AWG & 1-#10G IN 1/2" RIGID STEEL CONDUIT FROM PANEL 1HB-19,21,23 FOR LEVELER AND 2-#12 & 1-#12G IN 1/2" RIGID STEEL CONDUIT FROM 1LB-24. RUN CONDUIT THROUGH LOADING DOCK CRAWLSPACE. COORDINATE WITH STRUCTURAL PLANS.



DATE	
DESCRIPTION	
MARK	
SEAL	
A/E INFO	
APPROVED FOR COMMANDER NAVFAC 7-20-26	
ACTIVITY Approved by Ron Couture, Program Manager, with MSC, via Email.	
SATISFACTORY TO DATE 07/14/2026	
DES BMN	DRW BMN
CHK FVP	
PMIDM	DAS/SAR
BRANCH MANAGER	CJM
CHIEF ENGINEER	J. MILLER, PE
FIRE PROTECTION	HPN
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MIDLAND - ROICC NORFOLK NAVAL STATION NORFOLK, VIRGINIA	
BUILDING X-132 ENTRANCE AT NORTHEAST LOADING DOCK ENLARGED FLOOR PLANS - POWER	
SCALE: AS NOTED	
PROJECT NO.: 1845266	
CONSTR. CONTR. NO. N/A	
NAVFAC DRAWING NO. 12,951,009	
SHEET 62 OF 69	
EP102	
DRAWING REVISION: 14 SEP 2023	

GENERAL SHEET

NOTES

- A** REFER TO SHEET E-001 FOR ALL ELECTRICAL NOTES.
- B** PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. REROUTE AND RECONNECT CIRCUITS (POWER AND TELECOMMUNICATIONS) THAT WILL REMAIN IN USE, BUT INTERFERES WITH NEW CONSTRUCTION. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND DISCONNECT FROM ALL POWER SOURCES.
- C** ALL EXISTING CONDUITS THAT WILL NOT BE REUSED MUST BE REMOVED. ONLY CONDUITS IN WALLS THAT ARE TO REMAIN AND THAT DO NOT INTERFERE WITH NEW WORK MAY BE ABANDONED IN PLACE.
- D** ALL MATERIALS REMOVED UNDER DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED COMPLETELY OFF SITE.
- E** CIRCUITS SHOWN ARE BASED ON FIELD AND DRAWING INVESTIGATIONS. VERIFY ALL CIRCUITS PRIOR TO DEMOLITION.
- F** REFER TO ARCHITECTURAL SHEETS FOR EACH ROOM UNIT TYPE.
- G** CONDUIT AND WIRING FEEDING DEVICES, LIGHTING FIXTURES, AND EQUIPMENT CONNECTIONS LOCATED OUTSIDE OF SECURE BOUNDARY MUST NOT BE RUN THROUGH SECURE BOUNDARY. ROUTE CONDUIT AND CABLES AROUND SECURE BOUNDARY FROM SOURCE PANEL.

(THIS SHEET ONLY) **KEYNOTE**

- 1 CIRCUIT PRESERVED DURING DEMOLITION AND RECONNECTED IN NEW WORK. SEE DEMOLITION, LIGHTING, AND POWER PLANS FOR DETAILS. PROVIDE CONDUIT AND WIRE TO MATCH EXISTING IN ACCORDANCE WITH NEC.
- 2 CIRCUIT DISCONNECTED DURING DEMOLITION AND RECONFIGURED DURING NEW WORK. SEE DEMOLITION, LIGHTING, AND POWER PLANS FOR DETAILS. PROVIDE CONDUIT AND WIRE SIZED TO MATCH EXISTING IN ACCORDANCE WITH NEC.
- 3 PROVIDE CIRCUIT FOR POWER/LIGHTING AS INDICATED. PROVIDE CONDUIT AND WIRING AS INDICATED. SEE LIGHTING AND POWER PLANS FOR DETAILS.



A/E INFO

APPROVED

7.1

() ~~MTAA~~

John D. Miller

FOR COMMANDER NAVFAC 7-20-24

ACTIVITY

Approved by Ron Couture,
Regional Manager

Program Manager, with
MSC via Email

MSC, Via Email.

SATISFACTORY TO DATE 07/14/2026

DES	BMN	DRW	BMN	CHK	FVP
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PM/DM DAS/SAR

BRANCH MANAGER	CIM
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SWEETENED L MULLER BE

CHIEF ENG/ARCH J. MILLER, PE

FIRE PROTECTION HPN

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MEMORANDUM FOR THE RECORD

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	INITIALS
1/1/20	DEPOSIT	100.00		CHASE	
1/15/20	PAYROLL	50.00	101	CHASE	
1/31/20	RENT	25.00	102	CHASE	
2/1/20	DEPOSIT	150.00		CHASE	
2/15/20	PAYROLL	50.00	103	CHASE	
2/28/20	RENT	25.00	104	CHASE	
3/1/20	DEPOSIT	200.00		CHASE	
3/15/20	PAYROLL	50.00	105	CHASE	
3/31/20	RENT	25.00	106	CHASE	
4/1/20	DEPOSIT	250.00		CHASE	
4/15/20	PAYROLL	50.00	107	CHASE	
4/30/20	RENT	25.00	108	CHASE	
5/1/20	DEPOSIT	300.00		CHASE	
5/15/20	PAYROLL	50.00	109	CHASE	
5/31/20	RENT	25.00	110	CHASE	
6/1/20	DEPOSIT	350.00		CHASE	
6/15/20	PAYROLL	50.00	111	CHASE	
6/30/20	RENT	25.00	112	CHASE	
7/1/20	DEPOSIT	400.00		CHASE	
7/15/20	PAYROLL	50.00	113	CHASE	
7/31/20	RENT	25.00	114	CHASE	
8/1/20	DEPOSIT	450.00		CHASE	
8/15/20	PAYROLL	50.00	115	CHASE	
8/31/20	RENT	25.00	116	CHASE	
9/1/20	DEPOSIT	500.00		CHASE	
9/15/20	PAYROLL	50.00	117	CHASE	
9/30/20	RENT	25.00	118	CHASE	
10/1/20	DEPOSIT	550.00		CHASE	
10/15/20	PAYROLL	50.00	119	CHASE	
10/31/20	RENT	25.00	120	CHASE	
11/1/20	DEPOSIT	600.00		CHASE	
11/15/20	PAYROLL	50.00	121	CHASE	
11/30/20	RENT	25.00	122	CHASE	
12/1/20	DEPOSIT	650.00		CHASE	
12/15/20	PAYROLL	50.00	123	CHASE	
12/31/20	RENT	25.00	124	CHASE	
TOTAL		5000.00			

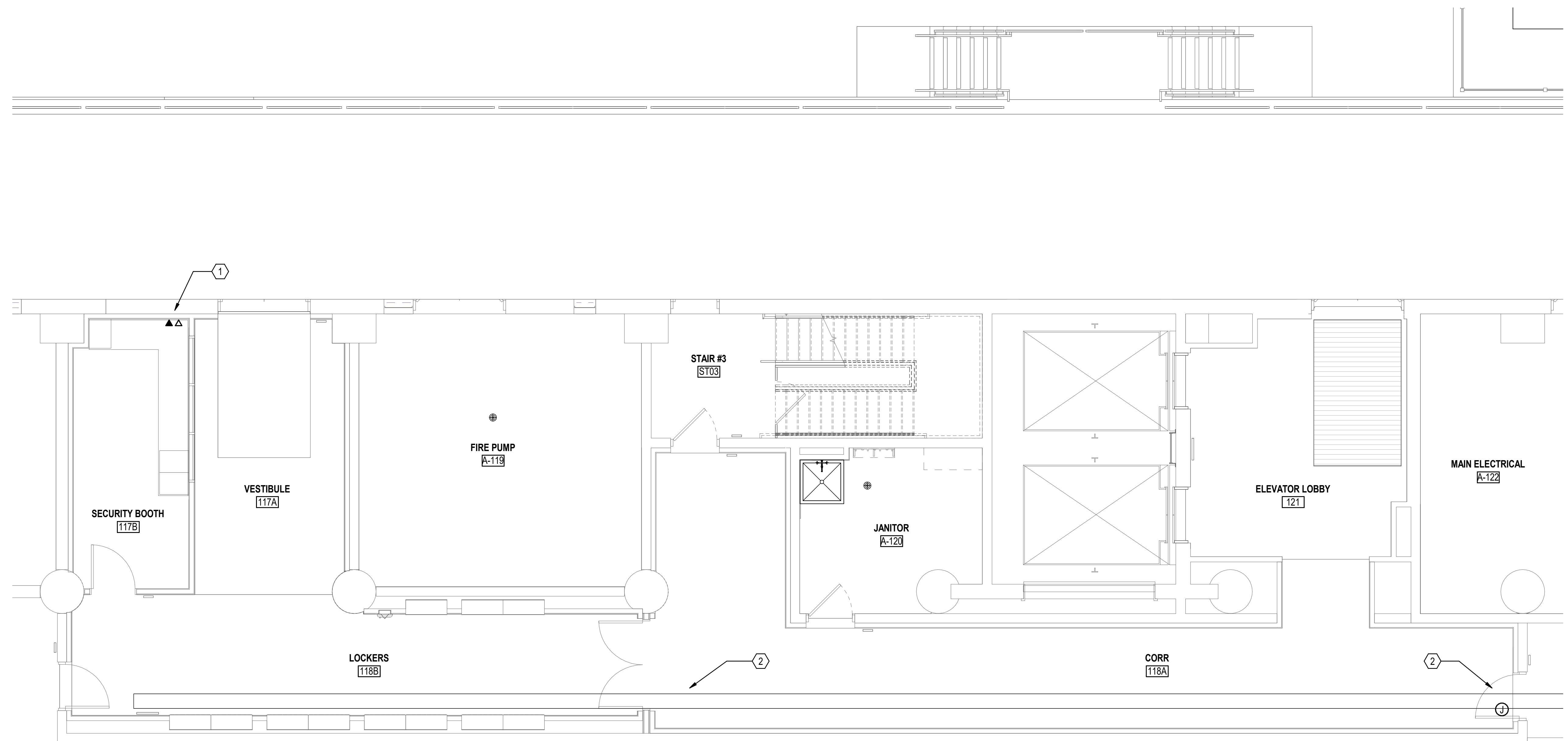
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ITEM	QTY	UNIT	PRICE	TOTAL
1	1	EA	100.00	100.00
2	1	EA	200.00	200.00
3	1	EA	300.00	300.00
4	1	EA	400.00	400.00
5	1	EA	500.00	500.00
6	1	EA	600.00	600.00
7	1	EA	700.00	700.00
8	1	EA	800.00	800.00
9	1	EA	900.00	900.00
10	1	EA	1000.00	1000.00
11	1	EA	1100.00	1100.00
12	1	EA	1200.00	1200.00
13	1	EA	1300.00	1300.00
14	1	EA	1400.00	1400.00
15	1	EA	1500.00	1500.00
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47	1	EA	4700.00	4700.00
48	1	EA	4800.00	4800.00
49	1	EA	4900.00	4900.00
50	1	EA	5000.00	5000.00
51	1	EA	5100.00	5100.00
52	1	EA	5200.00	5200.00
53	1	EA	5300.00	5300.00
54	1	EA	5400.00	5400.00
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56	1	EA	5600.00	5600.00
57	1	EA	5700.00	5700.00
58	1	EA	5800.00	5800.00
59	1	EA	5900.00	5900.00
60	1	EA	6000.00	6000.00
61	1	EA	6100.00	6100.00
62	1	EA	6200.00	6200.00
63	1	EA	6300.00	6300.00
64	1	EA	6400.00	6400.00
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66	1	EA	6600.00	6600.00
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69	1	EA	6900.00	6900.00
70	1	EA	7000.00	7000.00
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72	1	EA	7200.00	7200.00
73	1	EA	7300.00	7300.00
74	1	EA	7400.00	7400.00

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INFO

APPROVED

FOR COMMANDER NAVFAC 7-20-26

Approved by Ron Couture,
Program Manager, with
MSC, via Email.

SATISFACTORY TO DATE 07/14/2026

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4/DM	DAS/SAR
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WDM	DAS/SAR
	3.44

RANCH MANAGER CJM

CHIEF ENG/ARCH J. MILLER, PE

AND - MID-ATLANTIC AL STATION - NORFOLK, VA	
NORFOLK, VIRGINIA	
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DATE:	AS NOTED
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PROJECT NO.:	1845266
CONSTR. CONTR. NO.	

N/A

12,951,013

SHEET 66 OF 69

TT101

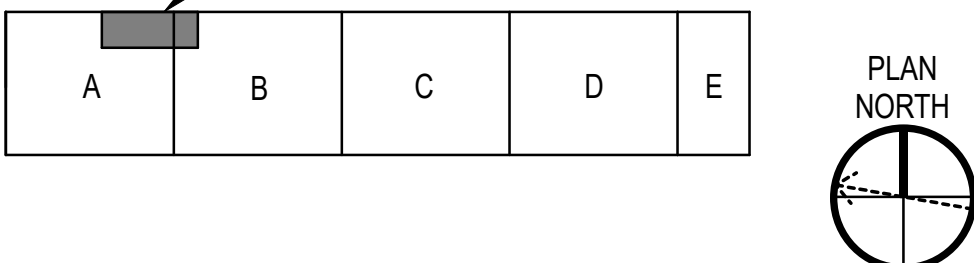
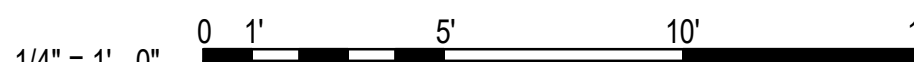
DRAWFORM REVISION: 14 SEP 2023

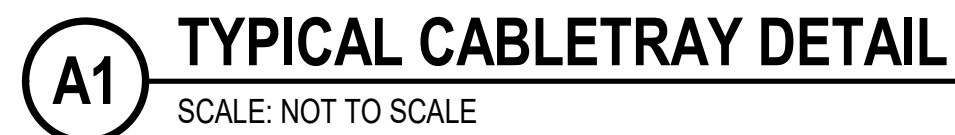
C1
T-002

B1

ENLARGED FIRST FLOOR PLAN - TELECOMMUNICATIONS

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

GENERAL SHEET NOTES		# (THIS SHEET ONLY)	KEYNOTES	KEY PLAN	
A REFER TO SHEET T-001 FOR GENERAL TELECOMMUNICATION NOTES.	G ALL SECURITY DEVICES SHOWN ARE FOR REFERENCE PURPOSES ONLY AND PROVIDED TO SHOW APPROXIMATE LOCATIONS OF EQUIPMENT TO BE PROVIDED BY OTHER. PROVIDE ROUGH-IN FOR SECURITY DEVICES, INCLUDING JUNCTION BOXES, CONDUIT, AND PULL STRING NECESSARY TO INSTALL EQUIPMENT SHOWN. COORDINATE EXACT LOCATIONS OF EQUIPMENT ROUGH-INS WITH CM PRIOR TO INSTALLATION. EQUIPMENT ROUGH-INS FED FROM RM 127 ON FIRST FLOOR. SEE SHEET T002 FOR RM 127 LOCATION.	1 PROVIDE DATA DROPS, CONDUIT AND PULL STRING TO RELOCATED UNCLASSIFIED CABLE TRAY. PROVIDE PULL STRING FROM WALL OUTLET TO MAIN IT ROOM 127, SHOWN ON T-002.		KEY PLAN	
B REFER TO SHEET T-501 FOR TELECOMMUNICATION DETAILS.	H ALL SECURITY AND DATA CONDUIT INFRASTRUCTURE MUST BE RUN TO EXISTING CABLE TRAY. ALL SECURITY AND DATA CONDUIT WITHIN SECURE BOUNDARY MUST BE RUN IN RIGID STEEL CONDUIT TO PULL BOX LOCATED WITHIN SECURE AREA.	2 PROVIDE SECURE-RATED CABLE TRAY ENCLOSURE FOR LENGTH OF EXISTING CABLE TRAY LOCATED WITHIN SECURE BOUNDARY. GROUND CABLE TRAY AND CONNECT TO EXISTING TELECOMMUNICATIONS GROUNDING BUS BAR IN MAIN TELECOM ROOM, AS INDICATED ON SHEET T-002.		LEGEND	
C COORDINATE TELECOMMUNICATION EQUIPMENT LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.				SYMBOL DESCRIPTION	
D VERIFY CABLE/JACK COLOR AND TYPE PRIOR TO ORDERING MATERIAL.				 AREA NOT IN CONTRACT.	
E ALL TELEPHONE/DATA WORK MUST BE COORDINATED WITH LOCAL IT GROUP AND ACTIVITY VIA THE CONTRACTING OFFICER PRIOR TO ORDERING MATERIALS. COORDINATE TELECOMMUNICATION OUTLET NOMENCLATURE WITH ACTIVITY VIA CONTRACTING OFFICER.				GRAPHIC SCALE	
F PROVIDE A MINIMUM OF 1" BUSHED CONDUITS FOR ALL DATA, SECURITY, AND TELEPHONE SYSTEMS.					
				SCALE: AS NOTED	
				EPROJECT NO.: 1845266	
				CONSTR. CONTR. NO. N/A	
				NAVFAC DRAWING NO. 12,951,013	
				SHEET 66 OF 69	
				TT101	
				DRAWING REVISION: 14 SEP 2023	

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