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DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD (DDESB) APPROVAL NOTES:

DO NOT REMOVE THESE NOTES WHEN PREPARING CONSTRUCTION DRAWINGS FOR SITE ADAPTATION.

- THIS STANDARD IS APPROVED BY THE DEPARTMENT OF DEFENSE EXPLOSIVE SAFETY BOARD (DDESB) AS A 7-BAR EARTH COVERED MAGAZINE AND MAY BE SITED AS AN EXPOSED SITE MAGAZINE FROM OTHER POTENTIAL EXPLOSION SITES STORING UP TO 500,000 LBS HAZARD DIVISION 1.1 EXPLOSIVES.
- THE DESIGN AND DETAILING OF THIS STANDARD MAGAZINE FOR BLAST LOADING IS THE SOLE RESPONSIBILITY OF THE GOVERNMENT. THE GOVERNMENT IS THE ENGINEER OF RECORD FOR THE BLAST DOOR.
- ANY DEVIATION FROM THESE STANDARD DRAWINGS, EXCEPT FOR FOUNDATION MODIFICATIONS, WITHOUT THE WRITTEN APPROVAL FROM THE DEPARTMENT OF DEFENSE EXPLOSIVE SAFETY BOARD (DDESB) MAY REQUIRE THE MAGAZINE TO BE CONSIDERED AN UNDEFINED MAGAZINE AND MAY SEVERELY RESTRICT THE ALLOWABLE STORAGE CAPACITY.

THE SITE ADAPT ENGINEER IS THE ENGINEER OF RECORD FOR THE SITE ADAPT PROCESS.

DES JAF DRW SFF CHK TPH CONSTR. CONTR. NO. NAVFAC DRAWING NO. HEET **1** OF **62** G-001

AIR INTAKE SECTIONS AND DETAILS

12914737

	1	2		3	4	1 5		
1	GENERAL: 1. THESE CONSTRUCTION DOCUMENTS ARE CONSTRUCTION STANDARDS FOR THE NAVY CLWS DOUBLE BAY STANDARD MAGAZINES AND HAVE BEEN SITE ADAPTED BY THE DOR.	DESIGN CRITERIA (CONT.) 5. SNOW DESIGN DATA: A. GROUND SNOW LOAD: B. EXPOSURE FACTOR:	45 PSF	FOUNDATIONS (CONT.): 6. ALL FILLING, BACKFILLING AND COMPACTING MAGAZINE COMPACTION OF SOILS ON TOP OF MAGAZINE COMPACTION TOOLS ONLY.		CAST-IN-PLACE CONCRETE (CONT.): 11. ALL ROUGHENED SURFACES IN CONCRETE MUST BE MADE WITH A MINIMUM AMPLITUDE OF 1/4 INCH.		E APPR
2	2. ALL MATERIALS AND WORKMANSHIP MUST CONFORM TO THE DRAWINGS AND SPECIFICATIONS.	C. IMPORTANCE FACTOR: D. THERMAL FACTOR:	1.10 1.2	7. EXPANSIVE SOILS MUST NOT BE USED FOR B RETAINING WALLS MUST CONFORM TO THE PR		12. SEE SHEET S-003 FOR LIGHTWEIGHT CONCRETE MIX DESIGN FOR HIGH SECURITY MAGAZINE DOOR.		DA
	3. EQUIPMENT PENETRATION OPENINGS AND LOCATIONS WHEN INDICATED ON DRAWINGS ARE FOR INFORMATION ONLY AND MUST BE VERIFIED WITH THE APPROPRIATE DRAWING AND/OR EQUIPMENT SUPPLIER BEFORE CONSTRUCTION. A. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCT WORK, PIPES AND PIPE SLEEVES. B. OPENINGS OR POCKETS LARGER THAN 6 INCHES NOT INDICATED IN	3-340-02 2008. B. TRIANGULAR PULSE LOAD VALUES BASE TR-NAVFAC EXWC-SH-2202, BASIS OF	GUIDANCE IS PROVIDED BY UFC D ON NAVFAC EXWC TECHNICAL REPORT DESIGN FOR EXPLOSIVE SAFETY FOR	8. ALL EXCAVATIONS MUST BE PROPERLY BACKF RETAINING WALLS BEFORE CONCRETE HAS ATT CONTRACTOR MUST BRACE OR PROTECT ALL FROM LATERAL LOADS UNTIL ATTACHING FLOOI HAVE ATTAINED FULL STRENGTH. CONTRACTOR AND INSTALLATION OF SUCH BRACING.	AINED FULL DESIGN STRENGTH. BUILDING AND PIT WALLS BELOW GRADE RS ARE COMPLETELY IN PLACE AND	13. VERTICAL CONCRETE ELEMENTS, SUCH AS COLUMNS AND PILASTERS, AND HORIZONTAL CONCRETE ELEMENTS, SUCH AS HEADER BEAMS AND HEADWALL, ARE GOOD CANDIDATES FOR SELF CONSOLIDATING CONCRETE (SCC). THE CONTRACTOR SHALL CONSIDER THE USE OF SCC FOR THESE ELEMENTS AND/OR ADDITIONAL ELEMENTS IN WHICH REBAR CONGESTION OR ADEQUATE VIBRATORY CONSOLIDATION IS A CONCERN.		NO
	STRUCTURAL DRAWINGS MUST NOT BE PLACED WITHOUT WRITTEN NOTIFICATION OF THE CONTRACTING OFFICER. C. OPENINGS OR PENETRATIONS OF ANY SIZE IN BLAST-RESISTING STRUCTURAL COMPONENTS (BLAST DOOR, HEADER BEAM, HEADWALL, PILASTERS, INFILL WAL ROOF PANEL, SIDE WALLS, REAR WALL) THAT ARE UNPLANNED OR NOT SHOWN IN THE DRAWINGS ARE NOT PERMITTED TO BE CONSTRUCTED WITHOUT PRIOR	NAVY MODULAR MAGAZINE, DATED SEPT MEMBER PEAK PRESS LS, HEAD WALL AND DOOR 249 PSI	EMBER 2021:	 CONTRACTOR MUST PROVIDE FOR DE-WATERIN WATER, GROUND WATER AND SEEPAGE. CONTRACTOR MUST PROVIDE FOR DESIGN AND SHEETING, AND SHORING REQUIRED TO SAFEL 	INSTALLATION OF ALL CRIBBING,	STRUCTURAL STEEL: 1. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE "AISC		SYM DESCRIPTION
4	APPROVAL FROM THE CONTRACTING OFFICER. 4. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL SYSTEM. REFER TO OTHER DRAWINGS FOR ORNAMENTS, GROOVES, CLIPS, GROUNDS, SLAB DEPRESSIONS, CURBS, EQUIPMENT PADS, PENETRATIONS, NON—BEARING WALLS AND OTHER	C. APPROVED LOCATION AND STORAGE CADETERMINED BY THE SAFETY OFFICER RELATIVE TO NEARBY FACILITIES/MAGAZ	BASED ON ORIENTATION AND PROXIMITY NES.	11. EXCAVATION FOR FOUNDATIONS MUST BE APPERIOR TO PLACING THE REINFORCING AND CO12. SHALLOW FOOTING FOUNDATIONS MUST BE PL	NCRETE. ACED AND INSTALLED IN ACCORDANCE	SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITION. 2. CONTRACTOR MUST REVIEW AND APPROVE STRUCTURAL STEEL SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE CONTRACTING OFFICER. DO NOT BEGIN FABRICATION PRIOR TO THE		>
5	NON-STRUCTURAL ITEMS. 5. GENERAL NOTES AND STANDARD DETAILS MUST BE USED WHERE APPLICABLE, UNLESS NOTED OTHERWISE. NOTES AND DETAILS ON THE DRAWINGS MUST TAKE PRECEDENCE OVER GENERAL NOTES AND STANDARD DETAILS. WHERE CONFLICTS ARISE BETWEEN DRAWINGS AND SPECIFICATIONS, MOST STRINGENT WILL GOVERN. CONTACT THE CONTRACTING OFFICER IN WRITING FOR CLARIFICATION BEFORE PROCEEDING WITH WORL	1. THE CONTRACT STRUCTURAL DRAWINGS REPREDO NOT INDICATE THE MEANS OR METHOD OF MEASURES NECESSARY TO PROTECT THE STRUCTION. SUCH MEASURES MUSTRACING, SHORING FOR CONSTRUCTION EQUIPEORMS. SCAFFOLDING, PLANKING, SAFFTY NET	SENT THE FINISHED STRUCTURE. THEY CONSTRUCTION. PROVIDE ALL JCTURE, WORKERS OR OTHER PERSONS ST INCLUDE, BUT NOT BE LIMITED TO, MENT, SHORING FOR THE BUILDING,	WITH THE CONSTRUCTION DRAWINGS AND SPE PROJECT. 13. FOUNDATION BACKFILL AND UTILITY TRENCH B BE MECHANICALLY COMPACTED IN LAYERS PER APPROVAL OF THE CONTRACTING OFFICER. FLO	ACKFILL WITHIN BUILDING AREA MUST R THE SPECIFICATIONS TO THE	COMPLETION OF THE SHOP DRAWING REVIEW PROCESS. 3. FURNISH STRUCTURAL STEEL THAT IS NEW, CLEAN, STRAIGHT, AND CONFORMING TO THE FOLLOWING STANDARD SPECIFICATION, LATEST EDITION: A. STRUCTURAL STEEL WIDE FLANGE: ASTM A992 B. STRUCTURAL STEEL CHANNELS, ANGLES, S—SHAPES, AND PLATES: ASTM A992 OR ASTM A572, GRADE 50	NATA	C
6	6. ALL OMISSIONS AND/OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING BEFORE PROCEEDING WITH ANY WORK INVOLVED.	2. THE CONTRACTOR MUST ENGAGE PROPERLY OF WHERE AND HOW TEMPORARY PRECAUTIONARY CONSTRUCTION. THE CONTRACTOR MUST ALSO INSPECTOR TO REVIEW AND VERIFY INSTALLATION MEASURES.	MEASURES MUST BE USED DURING PROVIDE THEIR OWN THIRD-PARTY	14. NEW FOUNDATIONS MUST BEAR ON APPROVED SOILS OR ON PROPERLY COMPACTED AND AP DIRECTLY ABOVE APPROVED SUBGRADES AS IN AND SPECIFICATIONS.	PROVED FILL MATERIALS PLACED	C. HOLLOW STRUCTURAL STEEL SECTIONS: ASTM A500, GRADE C D. ANCHOR BOLTS: ASTM F1554 (GRADE SPECIFIED AS REQUIRED) E. HIGH STRENGTH BOLTS: ASTM F3125 GRADE A325 F. HEADED STUD ANCHORS: ASTM A29 (TYPE B) G. STAINLESS STEEL: ASTM A240, TYPE 304		SEAI
8	 DIMENSIONS MUST NOT BE SCALED FROM THE PLANS, SECTIONS AND/OR DETAILS OF THE STRUCTURAL DRAWINGS. COORDINATE WITH THE CONTRACTING OFFICER FOR PROCUREMENT AND INSTALLATION CONTRACTION OF INTERNAL LOCKING DEVICE (ILD), BOLTWORKS, AND THE DISTRIBUTION OF KEY SETS FOR EACH MAGAZINE DOOR. THE ILD MUST BE PROCURED WITH TWO UNIQUE KEYS IN ORDER TO OPERATE THE BOLTWORKS. 	3. THE CONTRACTOR MUST SUPERVISE AND DIRE RESPONSIBILITY FOR COORDINATING THE WORK OF ALL DIMENSIONS. ALL DISCREPANCIES MUST THE CONTRACTING OFFICER AND MUST BE RE	OF ALL TRADES AND THE CHECKING T BE CALLED TO THE ATTENTION OF	CAST-IN-PLACE CONCRETE: 1. THE DESIGN AND CONSTRUCTION OF REINFORM ACI BUILDING CODE (ACI 318) AND THE FOLL SPECIFICATIONS: A. CONCRETE MIXING: B. CONCRETE PLACEMENT:		H. SUBSTITUTIONS OF STEEL SHAPES IS NOT PERMITTED. 4. STRUCTURAL STEEL MUST CONFORM TO THE FOLLOWING PROPERTIES OR COATINGS: A. ALL WELDMENT AND EMBEDMENTS FABRICATED FOR THE DOOR JAMB, HEAD, LOCKING PILASTER, AND TRENCH MUST BE MADE OF TYPE 304 STAINLESS STEEL PER ASTM		
g	9. CONTACT THE DoD LOCK PROGRAM FOR DIRECTIONS ON HOW TO PROCURE THE INTERNAL LOCKING DEVICE (ILD), BOLTWORKS, AND A LIST OF RECOMMENDED MANUFACTURERS FOR MAGAZINE DOORS: A. DoD LOCK PROGRAM: https://navfac.navy.mil/go/locks B. EMAIL: ILD_Field_Support@navy.mil C. ILD SUPPORT HOTLINE: 805-982-5625. D. DoD LOCK PROGRAM TECHNICAL SUPPORT HOTLINE: 800-290-7607 OR	 THE CONTRACTOR MUST COMPLY WITH ALL AFFEDERAL, AND INTERNATIONAL LAWS, INCLUDING HEALTH ACT (OSHA) AND REGULATIONS ADOPT CONSTRUCTION LOADS INCLUDING MATERIALS LOAD. PROVIDE ADEQUATE SHORING, RESHORING FOUNDATIONS:	G THE OCCUPATIONAL SAFETY AND ED PURSUANT THERETO. MUST NOT EXCEED THE DESIGN LIVE	 MATERIAL MUST CONFORM TO ALL OF THE FOLITION: A. PORTLAND CEMENT: B. CONCRETE AGGREGATES: C. REINFORCING STEEL: ASTM A706 GRADE 60 IS NOT EQUIVALED. WELDED WIRE FABRIC (SHEET TYPE, RO 	ASTM C150, TYPE I OR II ASTM C33 ASTM A615 DEFORMED BARS (GRADE 60) ENT AND IS NOT ACCEPTABLE	B. ALL DOOR STRUCTURAL STEEL MUST BE PRIMED AND PAINTED AFTER FABRICATION. REFER TO DOOR COATINGS NOTES ON S-003. C. ALL OTHER STRUCTURAL STEEL INCLUDING CANOPY FRAMING MUST BE HOT DIP GALVANIZED PER ASTM A123 AND COATED A MINIMUM DRY FILM THICKNESS (DFT) OF 12 MILS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS: a. PRIMER COAT: SOLVENT-BASED TWO COMPONENT EPOXY ANTI-CORROSIVE PRIMEF (3-5 MILS), MPI (THE MASTER PAINTERS INSTITUTE) #101.		A/E IN
	805-982-1212. 10. COORDINATE WITH THE CONTRACTING OFFICER FOR THE CONNECTION OF THE BALANCE MAGNETIC SWITCH (BMS) ON THE DOOR AND THE ILD, WHICH MUST BE INSTALLED AND CONNECTED TO THE INTRUSION DETECTION SYSTEM (IDS) BY NAVAL INFORMATION WARFARE CENTER.	1 DEAD DILIC LIVE LOAD.	4,000 PSF R SEISMIC, TRANSIENT LOAD FACTOR = 5,300 PSF	TYPE NOT ACCEPTABLE): 3. CONCRETE MUST ATTAIN THE FOLLOWING 28-I OTHERWISE INDICATED: A. ALL STRUCTURAL CONCRETE: B. LEAN CONCRETE:	ASTM A1064 DAY COMPRESSIVE STRENGTHS, UNLESS 5,000 PSI 3,000 PSI	 b. INTERMEDIATE COAT: HIGH SOLIDS EPOXY COATING (3-5 MILS). MPI #108. c. TOP COAT: HIGH SOLIDS POLYURETHANE COATING (3-5 MILS). MPI #72. D. GALVANIZE STRUCTURAL STEEL AFTER FABRICATION WHERE PRACTICAL. REPAIR DAMAGED GALVANIZED COATING USING ASTM A780 ZINC-RICH PAINT. FIELD CUTTING OF ANY HOT-DIP GALVANIZED HARDWARE IS NOT PERMITTED. 	SATISFACTORY TO DATE DES JAF DRW SFF CHK PM/DM BRANCH MANAGER CHIEF ENG/ARCH FIRE PROTECTION	нк ТР - - -
1	 DESIGN CRITERIA: THE STRUCTURAL DESIGN AND CONSTRUCTION MUST COMPLY WITH THE FOLLOWING GOVERNMENT STANDARDS: UFC 1-200-01, "DESIGN: GENERAL BUILDING REQUIREMENTS" FC 1-300-09N, "NAVY AND MARINE CORPS DESIGN PROCEDURES" 	2. EARTH COVER MATERIAL TO BE USED AS MACE EMBANKMENT IS TO BE NON-EXPANSIVE, FRE THE FOLLOWING CHARACTERISTICS: A. ALLOWABLE WET SOIL DENSITY: B. ASTM D2487 CLASSIFICATION: SM, SM-S	SAZINE COVER AND WITHIN THE E OF DELETERIOUS MATERIAL AND MEET 110 - 120 PCF. C, SC.	 CHLORIDES OR CHLORIDE SALTS ARE NOT ALL ALL REINFORCING STEEL DETAILING AND PLACE DETAILING MANUAL PUBLICATION SP-66, "BUIL REINFORCED CONCRETE" ACI-318, AND THE "DETAILING REINFORCED CONCRETE STRUCTURE 	EMENT MUST CONFORM TO THE ACI DING CODE REQUIREMENTS FOR MANUAL OF STANDARD PRACTICE FOR	 REPAIR ABRADED AND RUSTED SHOP PAINT WITH SAME PAINT AS SPECIFIED IN STRUCTURAL STEEL NOTE 4C. WELDING MUST COMPLY WITH THE "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1) AND THE "STRUCTURAL WELDING CODE - STAINLESS STEEL" (AWS D1.6). WELD ELECTRODES 	NG SYSTEMS COMMAND 1 - ATLANTIC MPTON ROADS, VIRGINIA 3E DOUBLE ZINE	
2	2. DESIGN LOADS: THE FOLLOWING LOADS WERE USED AS BASIS OF DESIGN: A. DEAD LOADS: a. SOIL: B. LIVE LOADS: ACTUAL WEIGHT 110-120 PCF	C. ASTM D1140 MATERIAL FINER THAN #20 50%. D. MAXIMUM PARTICLE SIZE: E. ASTM D4318: MAX LIQUID LIMIT = 35, N F. REQUIREMENTS FOR EARTH COVER ECMS	1 INCH MAX PLASTICITY INDEX = 12. IN ACCORDANCE WITH DEFENSE	BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., ENTIRE LENGTH OF ALL REINFORCING. SECURE BOLTS AND OTHER CONCRETE INSERTS IN PO 6. WELDING OF REINFORCING STEEL IS PROHIBITI	TO MAINTAIN SPECIFIED COVER FOR THE ALL REINFORCING BARS, ANCHOR SITION PRIOR TO PLACING CONCRETE.	MUST BE E70XX FOR STEEL AND E308L FOR STAINLESS STEEL. PASSIVATION OF STAINLESS STEEL WELDS MUST BE PERFORMED PER ASTM A380. UNLESS OTHERWISE NOTED, MINIMUM WELD SIZE MUST BE 1/4 INCH CONTINUOUS FILLET WELD. 7. UNLESS OTHERWISE NOTED WELD ALL SHOP CONNECTIONS AND BOLT ALL FIELD	CILITIES ENGINEERI INS COMMAND HAI IS STORAC ED MAGAZ	
	a. CANOPY ROOF: b. ROOF: c. MAGAZINE FLOOR: 20 PSF 100 PSF 32K (HS 20-44 AXLE) 70.5K (SIDELOADER AXLE) 15K (FORKLIFT AXLE)	EXPLOSIVES SAFETY REGULATION (DESR) 3. RETAINING WALLS HAVE BEEN DESIGNED USIN A. PASSIVE EQUIVALENT FLUID PRESSURE: B. AT-REST LATERAL PRESSURE WITH/ 2:1	G THE FOLLOWING CRITERIA. 300 PSF/FT BACKFILL (RESTRAINED):	7. MINIMUM CONCRETE PROTECTION (COVER) FOR AS FOLLOWS UNLESS SPECIFICALLY CALLED O A. CONCRETE PLACED AGAINST EARTH: B. CONCRETE PLACED AGAINST FORM AND	R REINFORCEMENT MUST BE PROVIDED UT OTHERWISE IN PLANS AND DETAILS: 3 INCH LATER EXPOSED TO EARTH OR	CONNECTIONS. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS UNLESS OTHERWISE DETAILED. 8. DO NOT CUT OR BURN HOLES IN STRUCTURAL STEEL WITHOUT THE APPROVAL OF THE CONTRACTING OFFICER.	ENGINEERING SYSTEMS COMMAND - AT HAMPTO LONG WEAPONS STORAGE EARTH COVERED MAGAZIN	AI NOTES
	32K (CPS CONTAINER EACH) 2 STACKED CONTAINERS 1 IN CONCURRENCE WITH SIDE—LOADER 1,250 PSF (UNIFORM)	 WITHOUT SEISMIC: WITH SEISMIC: C. CANTILEVERED WALL LATERAL PRESSURE WITHOUT SEISMIC: WITH SEISMIC: 	40 PSF/ FT 102 PSF/ FT	WEATHER: C. COLUMNS AND BEAMS (FROM TIE OR S D. SLAB EXPOSED TO WEATHER OR GROUN E. SLABS AND WALLS (NOT EXPOSED TO N TO WEATHER FOR GROUND):	ND: 2 INCH	9. SPLICING OF STRUCTURAL STEEL IS NOT PERMITTED WITH THE EXCEPTION OF THE WT MEMBERS SUPPORTING THE TOP OF THE DOOR AND NON-BLAST RESISTING COMPONENTS OR FOR MEMBERS APPROVED IN WRITING BY THE CONTRACTING OFFICER.	VAL FACILITIES ENGININERIZED LONG	GFNFF
3	d. MECHANICAL ROOM FLOOR: 150 PSF (UNIFORM) 3. WIND DESIGN DATA: A. DESIGN WIND SPEED: 210 MPH	D. FRICTION FACTOR BETWEEN SOIL AND CO E. FRICTION FACTOR BETWEEN SOIL AND CO F. MINIMUM SOIL COHESIVE STRENGTH:		8. PROJECTING CORNERS OF BEAMS, WALLS, COI 3/4 INCH CHAMFER, UNLESS OTHERWISE NOT		10. GROUT BELOW BASE PLATES WITH NON-SHRINK GROUT WITH MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI		
4	B. WIND SPEED (ALLOWABLE STRESS DESIGN): 163 MPH C. EXPOSURE: "C" D. RISK CATEGORY: III 4. SEISMIC DESIGN DATA:	4. SAND MATERIAL USED AS A FREE-DRAINING I SURFACES AT THE ROOF PANEL, ENDWALL, AI REQUIREMENTS FOR ECMS IN ACCORDANCE WREGULATION (DESR) 6055.09.	ND SIDEWALLS MUST MEET MINIMUM	9. PROVIDE SLEEVES FOR ELECTRICAL OPENINGS NOT CUT ANY REINFORCING WHICH MAY CONF PERMITTED EXCEPT AS SHOWN. NOTIFY THE S OFFICER IN ADVANCE IF THE FIELD CONDITION SHOWN ON THE DRAWINGS.	LICT. CORING IN CONCRETE IS NOT TRUCTURAL ENGINEER AND CONTRACTING	 11. COAT ALL STRUCTURAL STEEL EXPOSED TO SOIL WITH TWO COATS OF COAL TAR EPOXY. EPOXY MUST MEET THE REQUIREMENTS OF PAINT SPECIFIC SSPC-PAINT 16. 12. BLAST DOOR AND COMPONENTS MUST MEET THE FOLLOWING TOLERANCES: A. BLAST DOOR MUST HAVE A TOTAL MAX FLATNESS TOLERANCE OF ±1/4" VERTICALLY 	SCALE: NONE EPROJECT NO.: 16448	
	A. RISK CATEGORY: III B. IMPORTANCE FACTOR: 1.25 C. SEISMIC DESIGN CATEGORY: D D. SITE SEISMICITY: $S_S = 2.79g$ $S_1 = 0.68g$	5. STRUCTURAL DRAWINGS INDICATE GENERAL SL PREPARATION. SEE PROJECT SPECIFICATIONS		10. CONDUIT OR PIPE SIZE (O.D.) MUST NOT EXC AND MUST BE PLACED BETWEEN THE TOP AN SPECIFICALLY DETAILED OTHERWISE. CONCENTE BE AVOIDED EXCEPT WHERE DETAILED OPENIN	D BOTTOM REINFORCING UNLESS RATIONS OF CONDUITS OR PIPES MUST	AND HORIZONTALLY. B. TRENCHES AND DOOR GUIDE RAIL MUST HAVE A $\pm 1/4$ " MAX DIFFERENTIAL TOLERANCE PER EVERY 37'-0". C. SECURITY PILASTER AND ALL OTHER VERTICAL AND HORIZONTAL DOOR BEARING	CONSTR. CONTR. NO. NAVFAC DRAWING NO. 12914697 SHEET 2 OF 6	62
	E. SITE CLASS: D	2		DE AVOIDED ENGLET WHERE DETAILED OPENIN	A	SURFACES MUST HAVE A ±1/4" MAX TOTAL TOLERANCE.	S-001 DRAWFORM REVISION: 25 AUGUST	

		SPECIAL INSPI	ECTION SCHEDULE/ VERIFICATION			SPECIAL INSPE	ECTION NOTES:		
ITEM	EXTENT OF INSPECTION ¹	REFERENCE		COMMENT/ SCOPE	1. INSPE	CTION INTERVALS ARE AS FOLLOWS:			
ETE CONSTRUCTION			INSPECT SIZE, SPACING, COVER, POSITIONING	AND GRADE OF RFINFORCING STEEL VERIF	C -	CONTINUOUS: THE FULL—TIME OBSERINSPECTION BY AN APPROVED SPECI WHERE THE WORK IS BEING PERFOR	AL INSPECTOR WHO IS PRES	S SPECIAL SENT IN THE AREA	
PRCING STEEL PLACEMENT	Р	ACI 318: 26.6.2	BARS ARE FREE OF FORM OIL OR OTHER DE SPLICES. VERIFY THAT BARS ARE ADEQUATELY	LETERIOUS MATERIALS. INSPECT BAR LAPS A	AND MECHANICAL P -	PERIODIC: THE PART-TIME OR INTER SPECIAL INSPECTION BY AN APPROVI	MITTENT OBSERVATION OF WO ED SPECIAL INSPECTOR WHO	IS PRESENT IN	
ETE PLACEMENT	С	AC1 318: 26.5.2	INSPECT PLACEMENT OF CONCRETE. VERIFY T SEGREGATION OR CONTAMINATION. VERIFY THA	HAT CONCRETE CONVEYANCE AND DEPOSITIN T CONCRETE IS PROPERLY CONSOLIDATED.		THE AREA WHERE THE WORK HAS B COMPLETION OF THE WORK. SUBMITTAL	EEN OR IS BEING PERFORME	ED AND AT THE	
NG AND TESTING OF CONCRETE	С	ASTM C 172 ASTM C 31 ACI 318: 26.12	TEST CONCRETE COMPRESSIVE STRENGTH, SL	UMP, AIR-CONTENT AND TEMPERATURE	2. STRU	CTURAL TEST AND SPECIAL INSPECTION 3-301-01 AND UFC 4-420-01.	NS ARE BASED ON CHAPTER	17 OF THE IBC,	
AND PROTECTION	Р	ACI 318: 26.5.3–26.5.5	INSPECT CURING, COLD WEATHER PROTECTION	IS AND HOT WEATHER PROTECTION PROCEDU	OURES. 3. CONT	RACTOR MUST HIRE A QUALIFIED INSP	ECTIONS AND TESTING AGENO	CY TO PERFORM	
RK	Р	ACI 318: 26.11	INSPECT FLATWORK FOR SHAPE, LOCATION AN	ND DIMENSIONS OF THE CONCRETE MEMBER	R BEING FORMED. REPO	AL INSPECTIONS AND TESTING IN ACC RTS TO THE CONTRACTING OFFICER FO NG ARE PERFORMED.	ORDANCE WITH THE IBC. SU OR EACH DAY SPECIAL INSPE	ECTIONS AND	
ONSTRUCTION						SPECIAL INSPECTIONS LISTED IN THIS		CONJUNCTION WITH	
OR CERTIFICATION/ QUALITY CONTROL JRES	S		REVIEW OF FABRICATOR'S QUALITY CONTROL F	PROCEDURES OR AISC CERTIFICATION.		PECIAL INSPECTION REQUIREMENTS P AL INSPECTIONS MUST BE PERFORME		D PARTY DURING	
TION INSPECTION	Р		INSPECT IN-PLACE FABRICATION, OR REVIEW REPORTS	FABRICATOR'S APPROVED INDEPENDENT INSF	PECTION AGENCY'S CONS REQU	RUCTION ON THE TYPES OF WORK L RING VERIFICATION AND INSPECTION.	ISTED UNDER SECTION 1705. THE CONTRACTING OFFICER N	OF THE IBC MUST ATTEND ALL	N/A/F
DEMONSTRATION	С		SEE BLAST DOOR NOTES		OBSE SECTI	RVATIONS. THESE INSPECTIONS ARE IN DN 110. THE INSPECTING AGENCY MU CTIONS DIRECTLY TO THE GOVERNMEN	N ADDITION TO THE INSPECTION JST PROVIDE REPORTS OF TH	ONS DEFINED IN	
ITEMS RELATED TO THE OTHER EXPLOS	SIVES SAFETY RELAT	L ED ITEMS				CTURAL ABBREVIATIONS:	•••		
ARADAY—SHIELD	P	DWG EG101;	INSPECT REINFORCING STEEL TO ENSURE ELE FOUNDATION THROUGH CRIMPED CONNECTIONS		ALLS, SLAB AND AND CONTINUITY TEST	ANCHOR BOLT	IF 	INSIDE FACE	
		L-301, L-304	ALL CRIMPED CONNECTIONS MUST BE INSPECT VISUALLY INSPECT TO ENSURE ECM FOUNDAT	CTED PRIOR TO CONCRETE PLACEMENT.	ADD L AFF	ADDITIONAL ABOVE FINISHED FLOOR	IN INTERM	INCH INTERMEDIATE	
DUNDING	P		PHOTOS.	TOTA TO DOTABLE TO THE GROUNDING STOLEN	M. DOCOMENT WITH ACI APPRO	ALTERNATE AMERICAN CONCRETE INSTI APPROXIMATE	TUTE JT IK	LOW POINT JOINT POUNDS	
NG SYSTEM	Р	E-501; E-504, DA	VISUALLY INSPECT GROUNDING SYSTEM CONDI- OCCURED TO THE CONDUCTORS DURING INST.		E, OR CORROSION HAS ARCH	ARCHITECTURAL BEAM BALANCED MAGNETIC SWITC		LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL	
L BONDS	Р	DA PAM 385-64,	INSPECT ALL BONDS FOR LOOSE CONNECTION	NS THAT MIGHT RESULT IN HIGH-RESISTANCE	BOT CI CIP CL	BOTTOM CAST IRON CAST—IN—PLACE CENTER LINE	MAX MECH MANUF, MFR MPH	MAXIMUM MECHANICAL MANUFACTURER MILES PER HOUR	
IPONENTS	Р	16-30. NFPA 780, 8.9 DA PAM 385-64, 16-30.	INSPECT LPS COMPONENTS FOR SECURE MOUDISPLACEMENT.	JNTING AND PROTECTION AGAINST ACCIDENTA		CONSTRUCTION JOINT CONTROL JOINT CLEAR (ANCE) COLUMN	MIN MISC MTL NIC	MINIMUM MISCELLANEOUS METAL NOT IN CONTRACT	APPROVED
ΓING	S	NFPA 780, 8.9 DA PAM 385-64,	PERFORM BONDING TEST ACROSS EACH BOND), AND AN EARTH ELECTRODE TEST OF THE	COL CONC CONN CJP	CONCRETE CONNECTION COMPLETE JOINT PENETRAT	NS NTS OC	NEAR SIDE NOT TO SCALE ON CENTER	FOR COMMANDER NAVFAC ACTIVITY
OVER	P	16-31. DWGS S-103	INSPECT DEPTH GAUGES ON ROOF PRIOR TO EARTH COVER DEPTH AND SLOPE TO ENSURE		STABILITY. INSPECT CONST	CONSTRUCTION CONTINUOUS	oz OF	OUNCES OUTSIDE FACE	SATISFACTORY TO DATE
ONTACT POINTS	C	DWGS S-205, S-507 AND S-508	INSPECT BEARING SURFACE AT TOP OF DOOR		RUCTURE. CONT'I	CONTINUED DEFORMED BAR ANCHOR	OH OPNG PJ	OPPOSITE HAND OPENING PANEL JOINT	DES JAF DRW SF PM/DM BRANCH MANAGER
ANEOUS EMBEDDED AND ATTACHED ITEN FRAMES, TRENCHES, ETC)	MS P	3 307 AND 3-300	INSPECT EMBEDDED AND ATTACHED ITEMS TO DOCUMENT WITH PHOTOS.			DOUBLE DEGREE DETAIL	PJP PL PN	PANEL JOINT PARTIAL JOINT PENETRATIONS PLATE PART NUMBER	CHIEF ENG/ARCH FIRE PROTECTION
NAL SPECIAL INSPECTIONS IN ACCORDAN	NCE WITH IBC CHAP	[ER 17			DIA DIM DIST	DIAMETER DIMENSION DISTANCE DRAWING	PCF PSF PSI	PART NUMBER POUNDS PER CUBIC FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	TEMS COMMAI ANTIC ROADS, VIRGII
CONSTRUCTION	Р	IBC SEC 1705.2			EA ECM	EACH EARTH COVERED MAGAZINE	RAD REF	RADIUS REFERENCE	MPTON F
E CONSTRUCTION	C	IBC SEC 1705.3			EF EJ	EACH FACE EXPANSION JOINT	REINF REQ'D SCH/SCHED	REINFORCEMENT REQUIRED SCHEDULE	MOINEER AMANE
	C	IBC SEC 1705.6			ELECT EOR	ELEVATION ELECTRICAL ENGINEER OF RECORD	SECT SHT	SECTION SHEET	AS CON
DEEP FOUNDATIONS	P	IBC SEC 1705.7				EQUAL EACH SIDE	SIM SOG SPA	SIMILAR SLAB-ON-GRADE	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - ATLA HAMPTON I
-PLACE DEEP FOUNDATIONS	P	IBC SEC 1705.8			EIC EXT FDN	ETCETERA EXTERIOR FOUNDATION	SPECS SQ	SPACE SPECIFICATIONS SQUARE	ERING:
PILE FOUNDATIONS	P	IBC SEC 1705.9			FL FIN FIN FL	FLOOR FINISH FINISH FLOOR	STL SS STD	STEEL STAINLESS STEEL STANDARD	
ED ITEMS	P	IBC SEC 1705.11			FIN FL FS FT	FINISH FLOOR FAR SIDE FOOT OR FEET	STIFF STRUCT	STIFFENER STRUCTURAL	
INSPECTIONS FOR WIND RESISTANCE		IBC SEC 1705.11			FTG GA	FOOTING GAUGE	T TBD TEMP	TOP TO BE DETERMINED	MENT OF THE NAVY NAVAL FACILITIES E
					GI GFCI HAS/H	GALVANIZED IRON GROUND—FAULT CIRCUIT IN HEADED, ANCHOR STUD	TEMP ITERRUPTERS THK THRU	TEMPERATURE STEEL THICK THROUGH	NAVAI
INSPECTIONS FOR SEISMIC RESISTANCE FOR SEISMIC RESISTANCE	<u>Г</u> Р	IBC SEC 1705.13			HAS/H HK HORIZ,	HOOK (H) HORIZONTAL	TOC TOS	TOP OF CONCRETE TOP OF SLAB, TOP OF STEEL TYPICAL	DEPARTME
AL CDECIAL INCDUCTIONS					HSS HSA IDS INFO	HOLLOW STRUCTURAL SECT HEADED STUD ANCHOR INTRUSION DETECTION SYS ^T INFORMATION	UFC	UNIFIED FACILITIES CRITERIA UNLESS NOTED OTHERWISE VERTICAL	SCALE: NC EPROJECT NO.: CONSTR. CONTR. NO.
AL SPECIAL INSPECTIONS CES		SEE SPECS			INTERM ILD IBC	INTERMEDIATE INTERNAL LOCKING DEVICE INTERNATIONAL BUILDING C	W/ WT	WITH WIDE FLANGE TEE SECTION	NAVFAC DRAWING NO. 129146 SHEET 3 OF

LIGHTWEIGHT CONCRETE:

. THE FOLLOWING MIX DESIGN AND CONCRETE MATERIAL PROPERTIES MUST BE USED FOR THE LIGHTWEIGHT CONCRETE LAYER IN THE HIGH SECURITY DOOR:

LIGHTWEIGHT CONCRETE MIX DESIGN							
MATERIAL	AMOUNT	UNIT	SPECIFIC GRAVITY	ASTM			
LIGHTWEIGHT AGGREGATE	1530	lb	1.38	C331			
CEMENT TYPE II	721	lb	3.15	C150			
WATER	315	lb	1	C1602			
SILICA FUME	82	lb	2.2	C1240			
SUPERPLASTICIZER – TYPE A	8	oz*	1.27	C494			
SYNTHETIC FIBERS - TYPE III	0.70	lb	0.855	C1116			
TOTAL VOLUME	27	ft ³					
oz*/ 100lb OF CEMENTITIOUS MATERIAL							

LIGHTWEIGHT CONCRETE MATERIAL PROPERTY REQUIREMENTS							
PROPERTY AMOUNT UNIT ASTM							
SLUMP	2 1/4"	in	C143				
MINIMUM DENSITY - UNIT WEIGHT	115	lb/ ft ³	C138				
STRENGTH (28 DAY MINIMUM)	4000	psi	C39				

- LIGHTWEIGHT AGGREGATES MUST BE DRY.
- 3. ADJUST WATER AMOUNT TO $\pm/-$ 0.5 Ib SO THAT MIX HOLDS SHAPE WHEN FORMED INTO A BALL IN THE HAND.
- MIX CAN BE SPLIT FOR VOLUME NEEDED.
- MIX PROCEDURE:
 - A. WEIGH OUT ALL MATERIALS.
 - B. IN A SEPARATE CONTAINER, COMBINE AND MIX HALF OF WATER, PLASTICIZER AND ALL FIBERS.
 - C. IN ANOTHER SEPARATE CONTAINER, COMBINE AND MIX SILICA FUME AND CEMENT.
 - D. POUR WATER WITH PLASTICIZER AND ALL FIBERS INTO MIXER.
 - E. POUR LIGHTWEIGHT FINE AGGREGATE INTO MIXER.
 - F. SLOWLY ADD SILICA FUME AND CEMENT TO MIXER.
 - G. ADD REMAINING WATER ADJUSTING AS NECESSARY (NOTE 3).
 - H. ALLOW TO MIX FOR AT LEAST 10 MINUTES.
 - I. WHEN MIX IS READY, POUR INTO DOOR CAVITIES OVER REBAR, TO PRESCRIBED DEPTH, ENSURE MIX FILLS ALL AREAS BEHIND REBAR, INTERNAL VIBRATE AS NECESSARY, NO VOIDS ALLOWED.
- 6. ALLOW CONCRETE TO CURE FOR 14 DAYS BEFORE MOVING DOOR. THE 4X RED OAK AND EXTERIOR PLATES SHALL NOT BE INSTALLED OVER THE CONCRETE UNTIL TWO OF THE FOLLOWING THREE CONDITIONS OCCUR.
 - A. THE MOISTURE CONTENT ON THE SURFACE OF THE CONCRETE IS LESS THAN OR EQUAL TO 4.0 PERCENT AS MEASURED BY AN IMPEDANCE TEST PER ASTM F2659.
 - B. THE IN-SITU RELATIVE HUMIDITY INSIDE THE CONCRETE IS LESS THAN OR EQUAL TO 75.0 PERCENT AS MEASURED PER ASTM F2170.
- C. 28 DAYS HAVE PASSED SINCE POURING THE CONCRETE.
- QUESTIONS CAN BE REFERRED TO NAVFAC EXWC DOD LOCK PROGRAM, AND SECURITY, FNGINFFRING DIV SH22.

STEEL DECK:

- THE DESIGN, FABRICATION, ERECTION OF METAL DECKING MUST BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND THE SDI DIAPHRAGM MANUAL
- STEEL ROOF DECK AND SIDING IS 1 1/2" x 18 GAUGE FACTORY-FINISHED DESIGNED FOR THE DEAD AND LIVE LOADS INDICATED.
- 3. STEEL ROOF DECK AND SIDING MUST BE ATTACHED TO SUPPORTS WITH #14 STAINLESS STEEL SCREWS AT EA VALLEY (MINIMUM 5 PER PANEL) PROVIDE AISI 304 STAINLESS STEEL SEALING CAPS WITH BONDED NEOPRENE WASHER OVER EACH FASTENER. USE 1/4-INCH BUTYL TAPE TO SEAL LAPS.
- 4. THE PLANS INDICATE DECK SPAN DIRECTION.
- 5. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, AND OTHER UTILITIES MUST NOT BE SUPPORTED FROM THE STEEL DECK.
- 6. STEEL DECK MUST CONFORM TO THE COATINGS FOR STRUCTURAL STEEL PROVIDED ON SHEET

MECHANICAL MATERIALS

- 1. LOUVERS MUST BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL WITH 4" DEEP FRAME. BLADES MUST BE 16 GAGE GALVANIZED STEEL POSITIONED AT APPROXIMATELY 37.5 DEGREES DOWN FROM THE HORIZONTAL AND SPACED APPROXIMATELY 6" ON CENTER. SCREEN MUST BE 19 GAUGE GALVANIZED 1/4" MESH. APPROXIMATELY 50% FREE AREA.
- 2. VENTILATORS MUST BE CONSTRUCTED OF MINIMUM 24 GAUGE GALVANIZED STEEL AND MUST BE DESIGNED FOR A SUSTAINED WIND SPEED OF 132 MPH.
- 3. FIRE DAMPER FUSIBLE LINKS MUST HAVE A MELTING POINT OF 160 TO 165 DEGREES FAHRENHEIT. BREAKING STRENGTH MUST BE SUITABLE FOR LOADS IMPOSED BY COUNTERWEIGHTS.
- 4. PIPE FLANGE GASKETS MUST BE OF NON-ASBESTOS MATERIAL IN ACCORDANCE WITH ASME B16.21. GASKETS MUST BE FLAT, 1/16 INCH THICK, AND CONTAIN ARAMID FIBERS BONDED WITH STYRENE BUTADIENE RUBBER. FLANGE FASTENERS MUST BE TYPE 316 STAINLESS STEEL
- 5. PROVIDE A DIELETRIC INSULATOR WHEREVER DISSIMILAR METALS CONTACT EACH OTHER.
- 6. PIPES UTILIZED FOR AIR MOVEMENT BETWEEN THE MECHANICAL ROOM AND MAGAZINE MUST BE ASTM A312 TP316 STAINLESS STEEL. PIPE FLANGES MUST BE IN ACCORDANCE WITH ASTM B16.5 AND ASTM A182 F316 STAINLESS STEEL
- 7. DUCTWORK SHALL BE G90 GALVANIZED SHEET METAL CONSTRUCTED TO THE LATEST VERSION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS — METAL AND FLEXIBLE, 4TH EDITION, FOR PRESSURE CLASS +2.0 INCHES OF WATER COLUMN AND SEAL CLASS A.

DOOR COATINGS:

- 1. ALL COATINGS AND INSTALLATION OF COATINGS MUST COMPLY WITH: A. UFGS - 09 97 13.27.

 - B. SHOP COATINGS: SSPC (THE SOCIETY OF PROTECTIVE COATINGS) QP3.
- C. FIELD COATINGS: SSPC QP1 + QS1.
- D. COLOR: LIGHT GRAY.
- SURFACE PREPARATION:
 - A. REMOVE SLAG FROM ALL WELDING SURFACES PRIOR TO CLEANING IN ACCORDANCE WITH NACE SP0178.
 - B. SOLVENT CLEAN SURFACE TO BE COATED PRIOR TO ABRASIVE BLASTING IN ACCORDANCE WITH SSPC SP1.
 - C. DRY ABRASIVE BLAST TO NEAR WHITE FINISH IN ACCORDANCE WITH SSPC SP10. BLAST PROFILE MUST BE 1-3 MILS TOOTH HEIGHT.
- 3. PAINT SYSTEMS:
- A. TOTAL COATING DRY FILM THICKNESS (DFT): 12 MILS.
- B. PRIMER COAT: ABRASION RESISTANT INORGANIC ZINC SILICATE PRIMER (3-5 MILS). SSPC PAINT 20, TYPE IC, LEVEL 1, WITH AT LEAST 85% ZINC IN DRY FILM.
- C. INTERMEDIATE COAT: HIGH SOLIDS EPOXY COATING (3-5 MILS). MPI #108.
- D. TOP COAT: HIGH SOLIDS POLYURETHANE COATING (3-5 MILS). MPI #72.
- OF ALL DOOR COMPONENTS MUST BE SOLVENT CLEANED, DRY ABRASIVE BLASTED, AND ZINC RICH PRIMER COATED. PRIOR TO FULLY ASSEMBLING OR FABRICATING DOOR, CLEAN AND PRIMER SURFACES THAT WILL BECOME INACCESSIBLE AFTER DOOR IS ASSEMBLED. THE DOOR MUST NOT BE GALVANIZED. EPOXY INTERMEDIATE AND POLYURETHANE TOP COATS MUST BE APPLIED TO ALL EXTERIOR SURFACES OF THE FULLY-ASSEMBLED DOOR.

ELECTRICAL BONDING & GROUNDING

- 1. ALL STEEL LOUVERS, VENTILATORS, GUARDRAILS DOORS AND FRAMES MUST BE ELECTRICALLY BONDED TO THE MAGAZINE REINFORCING CAGE.
- 2. ALL STRUCTURAL AND MISCELLANEOUS ITEMS EMBEDDED IN CONCRETE MUST BE ELECTRICALLY BONDED TO THE REINFORCING CAGE BY WIRE TIES.
- 3. THE REINFORCING CAGE MUST BE MADE ELECTRICALLY CONTINUOUS BY WIRE TIES AT A MINIMUM OF 48 INCH ON CENTERS IN EVERY DIRECTION, REFER TO DETAIL A1 ON DRAWING E-504
- 4. ALL WALLS AND CONSTRUCTION JOINTS MUST BE ELECTRICALLY BONDED. SEE THE ELECTRICAL DRAWINGS FOR DETAILS.
- 5. ALL STRUCTURAL STEEL AND REINFORCING STEEL MUST BE GROUNDED TO THE SECONDARY GROUND. SEE THE ELECTRICAL DRAWINGS FOR DETAILS.
- 6. BURIED OR EMBEDDED ITEMS MUST BE DOCUMENTED WITH PHOTOS AT INTERVALS OF 20 FEET.

PLUMBING MATERIALS

- 1. FLOOR DRAIN FIXTURES MUST CONSIST OF A CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND STRAINER. FLASHING COLLAR. SURFACE MEMBRANE CLAMP. PROVIDE WITH DEEP SEAL TRAP AND BARRIER-TYPE TRAP SEAL PROTECTION DEVICE CONFORMING TO ASSE 1072 WHERE CONNECTING TO SANITARY SEWER SYSTEM.
- 2. UNDERGROUND DRAINAGE PIPING MUST CONSIST ASTM D2665 SCH 40 PVC SOLID CORE PIPING WITH DWV PATTERN FITTINGS. PERFORATED DRAIN PIPING MUST INCLUDE 1/2" DIAMETER HOLES SPACED 5" O.C. IN TWO ROWS 120 DEGREES APART PER ASTM D2729. ALL PERFORATED DRAIN PIPING MUST BE INSTALLED WITH HOLES FACING DOWN.
- 3. PREFABRICATED TRENCH DRAINS MUST BE 6" WIDE, SHALLOW, PRECAST POLYESTER CONCRETE CHANNEL OF INTERLOCKING DESIGN. 3" OUTLETS. DUCTILE IRON EDGE RAIL AND EXTRA HEAVY DUTY, DIN19580 LOAD CLASS E DUCTILE IRON SLOTTED TOP GRATE FASTENED TO RAIL. GRATE SLOTS MUST BE NO WIDER THAN 1/4" OR PROVIDE STAINLESS STEEL MESH SCREEN FASTENED TO BOTTOM OF GRATES. MESH OPENINGS MUST BE NO LARGER THAN 1/4" TO MITIGATE RODENT ENTRY.

BLAST DOOR NOTES:

1. THE BLAST DOOR MANUFACTURER MUST BE SOLELY RESPONSIBLE FOR INSTALLATION AND ERECTION OF THE BLAST DOOR

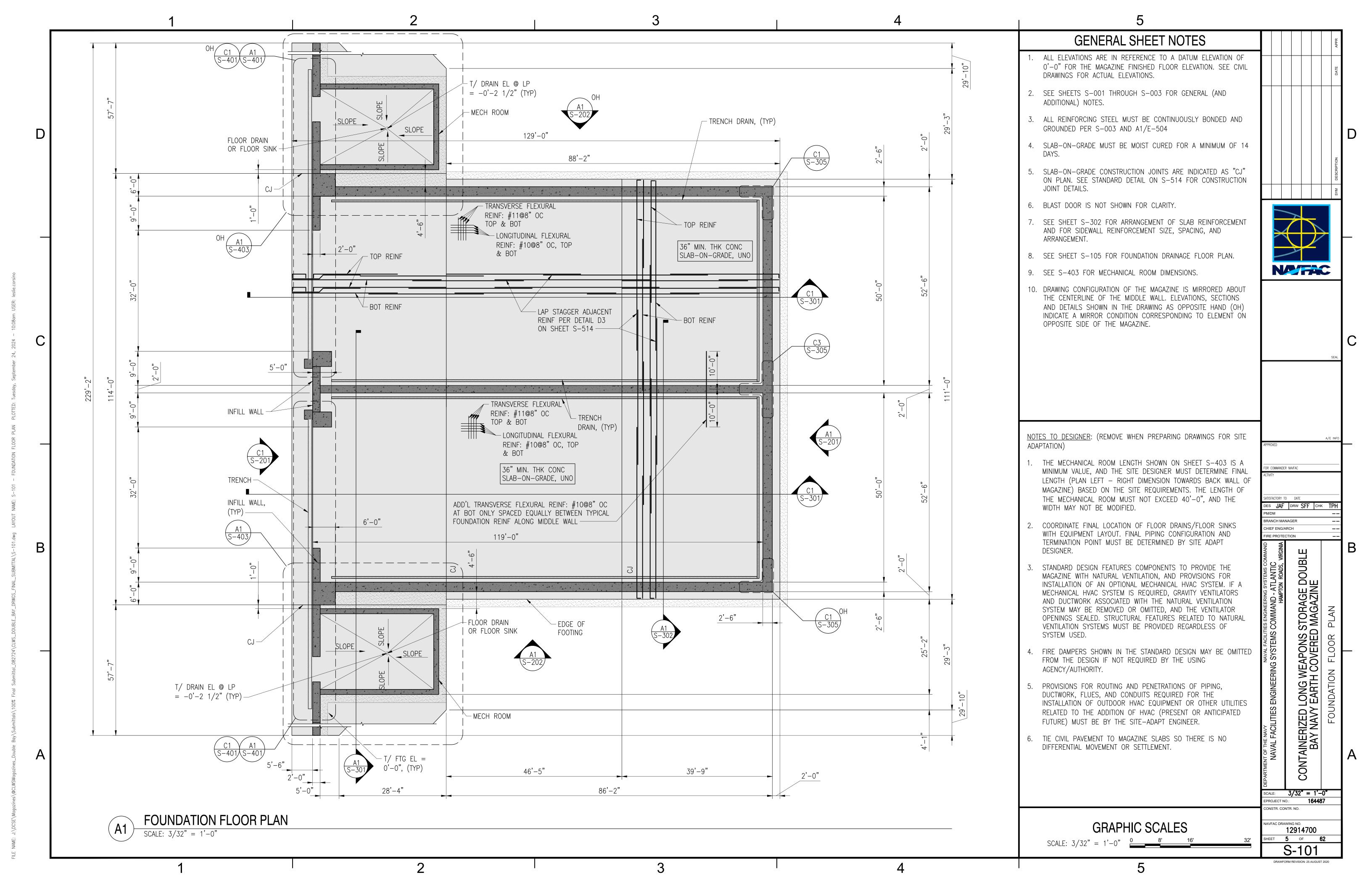
- 2. THE DOOR MANUFACTURER MUST COMMENCE A SHOP DEMONSTRATION OF EACH DOOR IN THE PRESENCE OF A GOVERNMENT OFFICIAL, CONSISTING OF A SUCCESSFUL CYCLE OF OPENING AND CLOSING THE DOOR BY CONTROLS, OPENING AND CLOSING OF TRENCH PLATES BY DOOR PLOWS AND ALIGNMENT OF DOOR IN SECURITY PILASTER. DEMONSTRATION MUST BE A MINIMUM OF HALF THE LENGTH OF THE DOOR TRAVEL. DEMONSTRATION MUST ALSO INCLUDE MANUAL OPERATION OF BLAST DOOR IN BOTH DIRECTIONS. UPON SATISFACTION OF THE GOVERNMENT OFFICIAL REVIEWING THE DOOR DEMONSTRATION(S) AND RECEIPT OF GOVERNMENT APPROVAL LETTER, THE MANUFACTURER WILL BE RELEASED FROM DEMONSTRATING ADDITIONAL DOORS.
- 3. THE DOOR MANUFACTURER MUST COMMENCE A FIELD DEMONSTRATION OF EACH DOOR IN THE PRESENCE OF A GOVERNMENT OFFICIAL, CONSISTING OF A SUCCESSFUL CYCLE OF OPENING AND CLOSING THE DOOR BY CONTROLS, OPENING AND CLOSING OF TRENCH PLATES BY DOOR PLOWS. LOCKING AND UNLOCKING DOOR. AND ALIGNMENT OF DOOR IN SECURITY PILASTER.
- 4. THE BLAST DOOR MANUFACTURER MUST HAVE A MINIMUM OF 10 YEARS OF EXPERIENCE IN THE DESIGN, CONSTRUCTION AND INSTALLATION OF DOORS WEIGHING A MINIMUM OF 30 KIPS, CONSISTING OF BOTTOM ROLLING DOORS AND LARGE HEAVY DOORS SUCH AS MAGAZINE BLAST DOORS AND/OR NUCLEAR CONTAINMENT DOORS. THE BLAST DOOR MANUFACTURER MUST SUBMIT PROOF OF EXPERIENCE TO THE CONTRACTING OFFICER FOR APPROVAL BY NAVFAC EXWC AND NAVFAC ATLANTIC. A MINIMUM OF 5 EXAMPLES MUST BE SUBMITTED.
- 5. PROVIDE STEEL PLATE BOTTOM WHEELS HAVING A MINIMUM TREAD DIAMETER AS REQUIRED FOR THE ACTUAL WHEEL LOADING. CONSTRUCTION WHEEL ASSEMBLES TO PERMIT REMOVAL OF THE WHEEL WITHOUT REMOVING THE DOOR LEAF FOR ITS POSITION ON THE RAIL.
- 6. THE GENERAL CONTRACTOR MUST SELECT A SINGLE SUPPLIER TO PROVIDE A COMPLETE BLAST DOOR SYSTEM INCLUDING BUT NOT LIMITED TO THE BLAST DOOR AND ALL OF ITS ASSOCIATED COMPONENTS AND HARDWARE, RAIL, TRENCH, TRENCH COVER ASSEMBLY. PLOW AND EMBEDDED PLATES.
- 7. PROVIDE A HAND RELEASE ON THE DESIGNED BRAKING SYSTEM TO RELEASE THE BRAKE WHEN IT BECOMES NECESSARY TO MANUALLY MOVE THE DOOR. PROVIDE AN AUTOMATIC RESET TYPE HAND RELEASE SO THAT THE BRAKE WILL BE OPERABLE DURING SUBSEQUENT ELECTRICAL OPERATIONS OF THE DOOR.
- 8. BLAST DOOR MANUFACTURER MUST PROVIDE A COMPLETE BLAST DOOR MANUAL THAT INCLUDES MAINTENANCE AND STEP BY STEP INSTRUCTIONS OF WHEEL REMOVAL.
- 9. THE PLOW/TRENCH COVER ASSEMBLY ALONG WITH THE WHEEL/MOTOR ASSEMBLY ARE NOTIONAL AND SHOWN FOR BIDDING PURPOSES AND MAY VARY BASED ON THE DOOR MANUFACTURER'S APPROVED DESIGN.

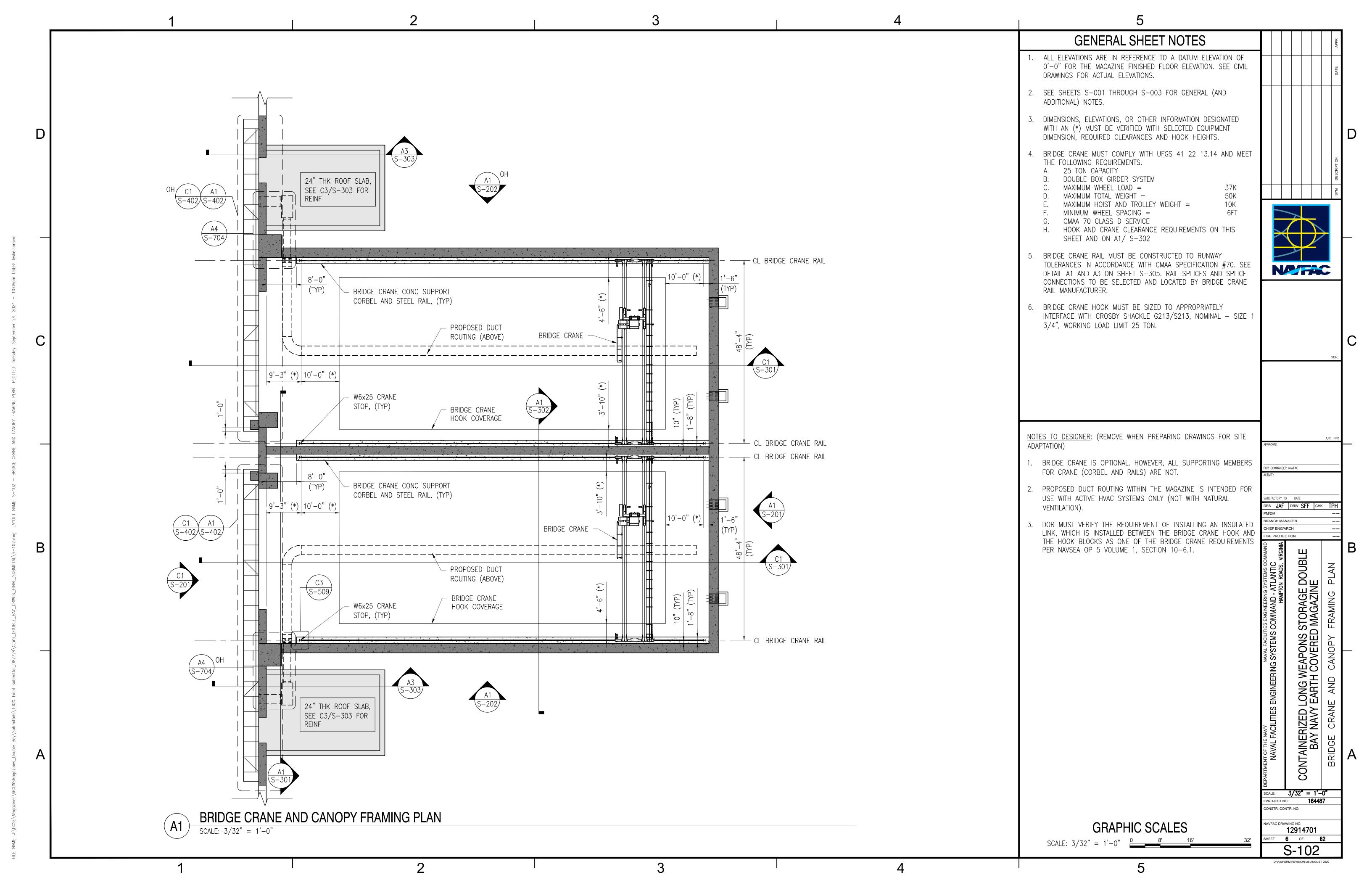
NOTES TO DESIGNER - REMOVE THESE NOTES WHEN PREPARING CONSTRUCTION DRAWINGS FOR SITE ADAPTION:

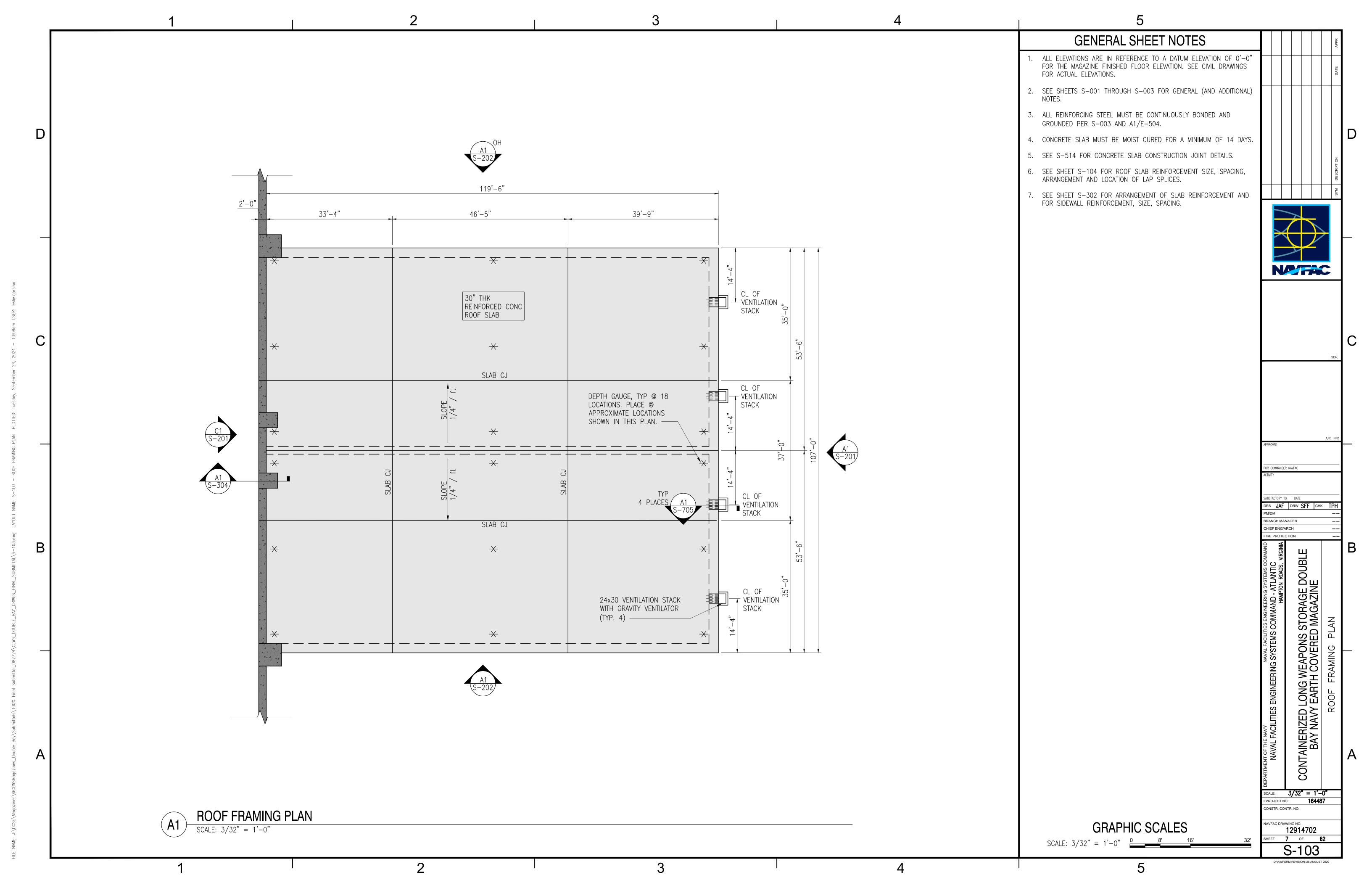
- EDIT UFGS 01 45 35 "SPECIAL INSPECTIONS" IN ACCORDANCE WITH UFC 3-301-01 "STRUCTURAL ENGINEERING" AND INCORPORATE ADDITIONAL ITEMS IDENTIFIED IN APPENDIX C OF UFC 4-420-01.
- SITE PARAMETERS FOR WIND AND SEISMIC LOADS INDICATED IN THE DESIGN CRITERIA NOTES SECTION OF SHEET S-001 ARE BASED ON A SITE LOCATION OF GUAM. IF THE LOCAL CONDITIONS FOR THE PROJECT SITE REQUIRE MORE STRINGENT WIND AND/OR SEISMIC PARAMETERS. THE DESIGN CRITERIA AND STRUCTURAL DESIGN MUST BE REVISED ACCORDINGLY.
- THESE DRAWINGS ARE TO BE UTILIZED IN CONJUNCTION WITH ALL DOD REQUIREMENTS FOR SITE ADAPTATIONS. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, PHYSICAL SECURITY, CIVIL, FOUNDATIONS, AND SPECIFICATIONS. ANY DEVIATION FROM THE STANDARD DRAWINGS FOR THE MAGAZINE STRUCTURE ITSELF (ROOF, WALLS, EARTH COVER, HEADER BEAM, PILASTER, BLAST DOOR, ETC) WITHOUT THE WRITTEN APPROVAL FROM THE DEPARTMENT OF DEFENSE EXPLOSIVE SAFETY BOARD (DDESB) MAY RESULT IN THE MAGAZINE TO BE CONSIDERED AN UNDEFINED MAGAZINE AND MAY SEVERELY RESTRICT STORAGE CAPACITY.
- \cdot . NEW SHEETS MUST BE ADDED AS NECESSARY BY THE SITE ADAPT ENGINEER FOR LANGUAGE TRANSLATIONS.
- THE MAGAZINE ROOF SLAB, SIDE/REAR WALLS, AND RETAINING WALLS IN THIS STANDARD DESIGN HAVE BEEN DESIGNED FOR THE BACKFILL SOIL PARAMETERS AND SOIL TYPES INDICATED IN THE FOUNDATIONS SECTION OF THE GENERAL NOTES ON SHEET S-001. AVAILABLE SOILS FOR A GIVEN PROJECT SITE MAY VARY. THE SITE-ADAPT ENGINEER MUST SPECIFY BACKFILL SOIL MATERIALS THAT WILL MEET FOUNDATION CRITERIA INDICATED IN THE GENERAL NOTES WHENEVER POSSIBLE. IF LOCAL SOILS MEETING SPECIFIED REQUIREMENTS ARE NOT AVAILABLE, SEE NOTES TO DESIGNER #8.
- THE DESIGNER OF RECORD MUST PERFORM A GEOTECHNICAL INVESTIGATION ON SITE TO CONFIRM THE SOIL CONDITION PRIOR TO COMMENCING FOUNDATION WORK. THE FOUNDATION DESIGN AND CRITERIA MUST BE MODIFIED TO REFLECT SOIL CONDITIONS AND SITE SPECIFIC SOIL CONDITIONS AND ALLOWABLE BEARING PRESSURE AS DETERMINED BY THE SITE ADAPTATION GEOTECHNICAL REPORT.
- THE SITE ADAPT ENGINEER MUST CONDUCT A SITE-SPECIFIC GEOTECHNICAL INVESTIGATION FOR EACH MAGAZINE INSTALLATION. THE SITE ADAPT ENGINEER MUST COORDINATE THE FOUNDATION SYSTEMS, SELECTION OF FILL, SUBGRADE PREPARATION, AND COMPACTION REQUIREMENTS SHOWN IN THE STANDARD DRAWINGS WITH THE RECOMMENDATIONS FROM THE GEOTECHNICAL RFPORT AND IMPLEMENT THEM INTO THE DRAWINGS AND SPECIFICATIONS.
- SPECIFIED EARTH COVER MATERIALS IN THE FOUNDATION GENERAL NOTES ON SHEET S-001 ARE MORE STRINGENT THAN WHAT IS REQUIRED BY DESR 6055.09 AND WHAT HAS BEEN SPECIFIED FOR PREVIOUS MAGAZINE DESIGNS. THE SITE ADAPT ENGINEER MUST EVALUATE THE LOCAL AVAILABILITY OF SPECIFIED EARTH COVER MATERIALS. THE SITE ADAPT ENGINEER MAY SELECT ALTERNATIVE EARTH COVER MATERIALS, BUT THE MATERIAL MUST AT LEAST MEET REQUIREMENTS OF DESR 6055.09 AND THE MAGAZINE STRUCTURE MUST BE EVALUATED AS PART OF THE SITE ADAPT DESIGN FOR SPECIFIC SOIL PROPERTIES. THE ALTERNATIVE EARTH COVER MATERIAL SELECTED BY THE SITE ADAPT ENGINEER MUST STILL FALL IN THE 110-120 PCF DENSITY RANGE.
- THE MAGAZINE SIDE WALLS AND RETAINING WALLS AND CONNECTIONS HAVE BEEN DESIGNED FOR 2:1 SLOPE. THIS SLOPE CANNOT BE CHANGED UNLESS CALCULATIONS ARE PERFORMED TO ANALYZE ALL AFFECTED ELEMENTS. IF ANY ELEMENT IS MODIFIED, ENDORSEMENTS AND APPROVAL ARE REQUIRED FROM NAVFAC ATLANTIC, NAVFAC EXWC, NOSSA, AND DDESB.
- 10. PROVIDE WEATHERSTRIPPING SYSTEM AT PERIMETER OF BLAST DOOR REGARDLESS OF WHETHER OR NOT MAGAZINE IS TO BE EQUIPPED WITH ENVIRONMENTAL CONTROLS.
- 1. FOR THE GROUNDING REEL AND CABLE ASSEMBLY THE DOR MUST PROVIDE SPECIFICATIONS. THE GROUNDING CABLE MUST MOVE WITH THE DOOR AND MUST NOT HAVE INTERFERENCES WHILE TRAVELING. THE DOR MUST REQUIRE THE CONTRACTOR TO PROVIDE A DELEGATED DESIGN WITH SHOP DRAWINGS AND CALCULATIONS SUBMITTAL PACKAGES.
- 12. PROVIDE BOTH LEADING AND TRAILING EDGE DOOR BUMPERS. THE BUMPERS ARE TO BE A DELEGATED DESIGN.
- 13. FLOOR FLATNESS AND FLOOR LEVELNESS MUST BE SPECIFIED IN THE CONCRETE SPECIFICATION. AT A MINIMUM, SPECIFY: FLOOR FLATNESS (FF) 35 MINIMUM; FLOOR LEVELNESS (FL) 25 MINIMUM. HOWEVER, DOR MUST DECIDE IF A MORE STRINGENT VALUE IS NEEDED.

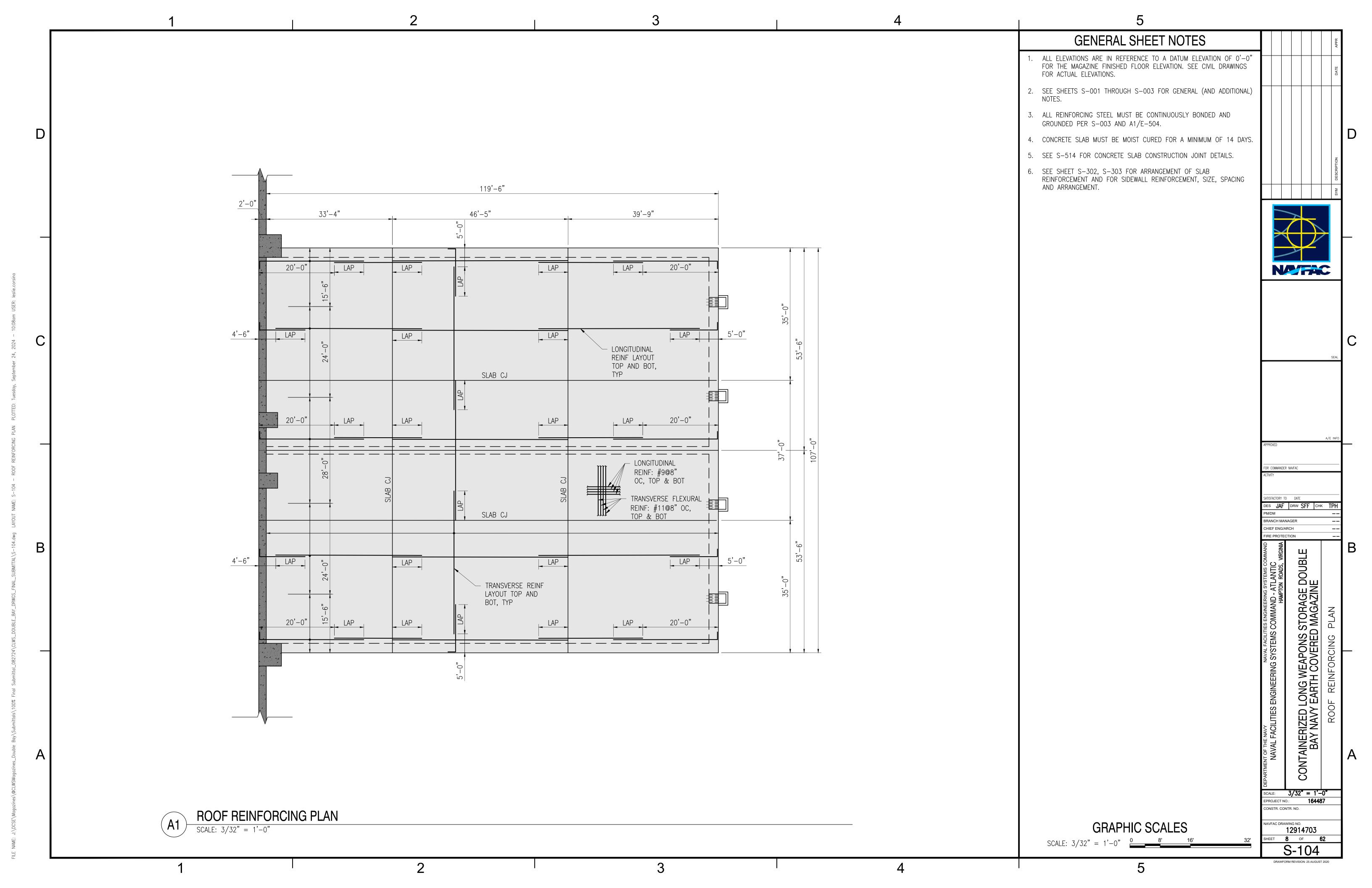
NATAC FOR COMMANDER NAVFAC ATISFACTORY TO DATE es **JAF I**drw **SFF I**chk **TPH** BRANCH MANAGER HIEF ENG/ARCH FIRE PROTECTION CONTAINERIZED LONG WEAPONS STORAGE DOUBLE BAY NAVY EARTH COVERED MAGAZINE 164487 CONSTR. CONTR. NO. NAVEAC DRAWING NO 12914699 ET **4** OF **62**

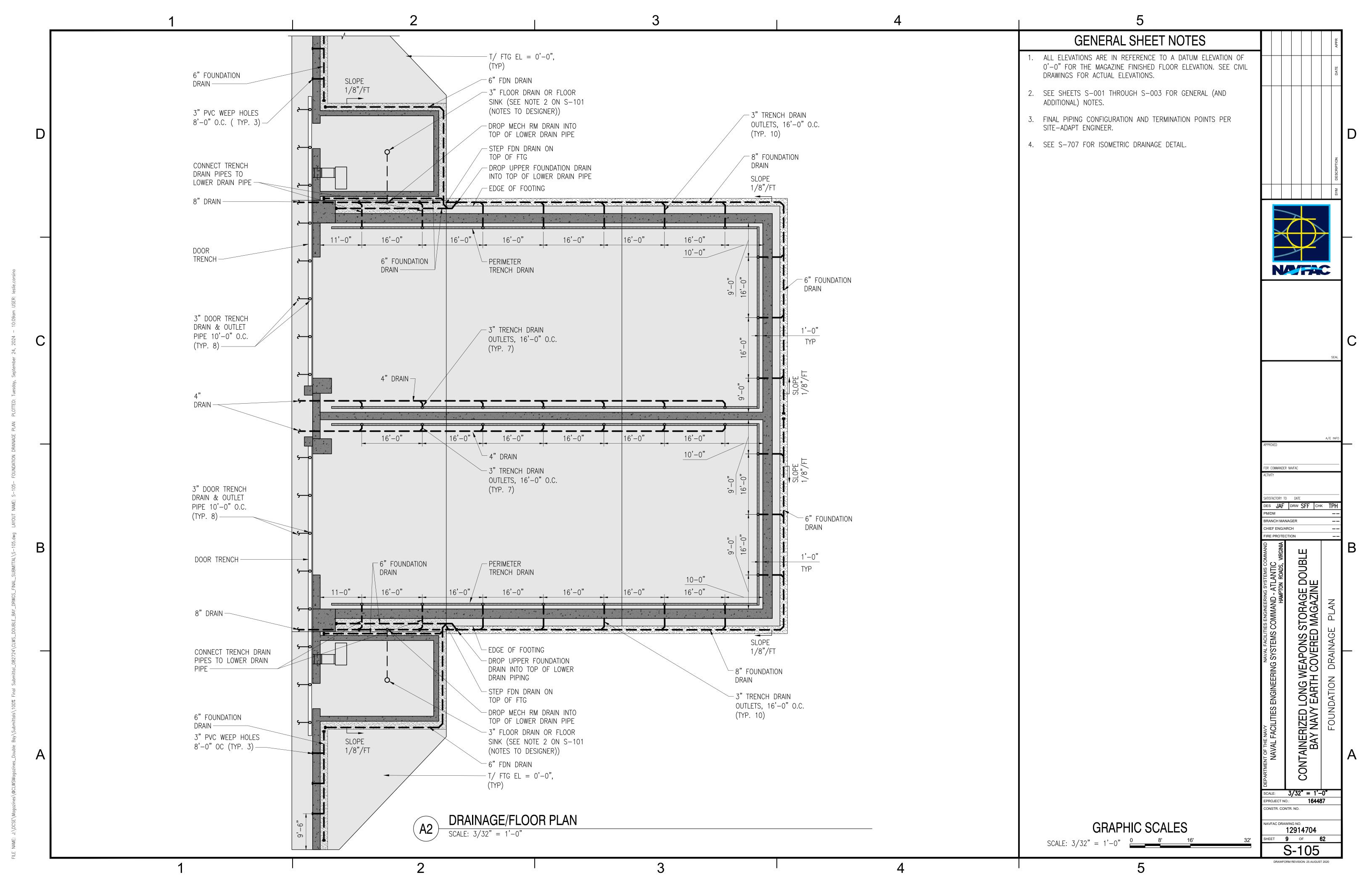
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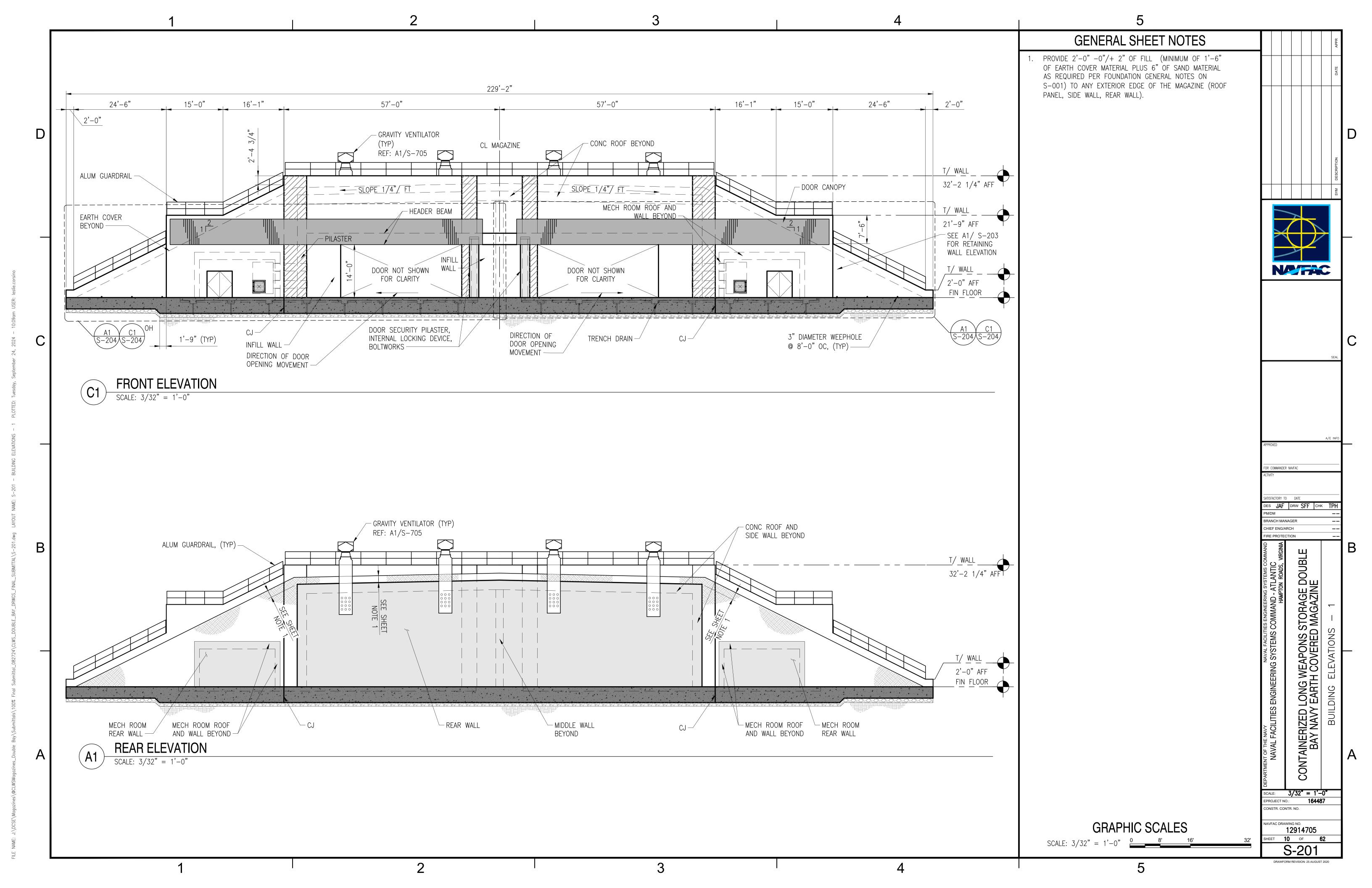


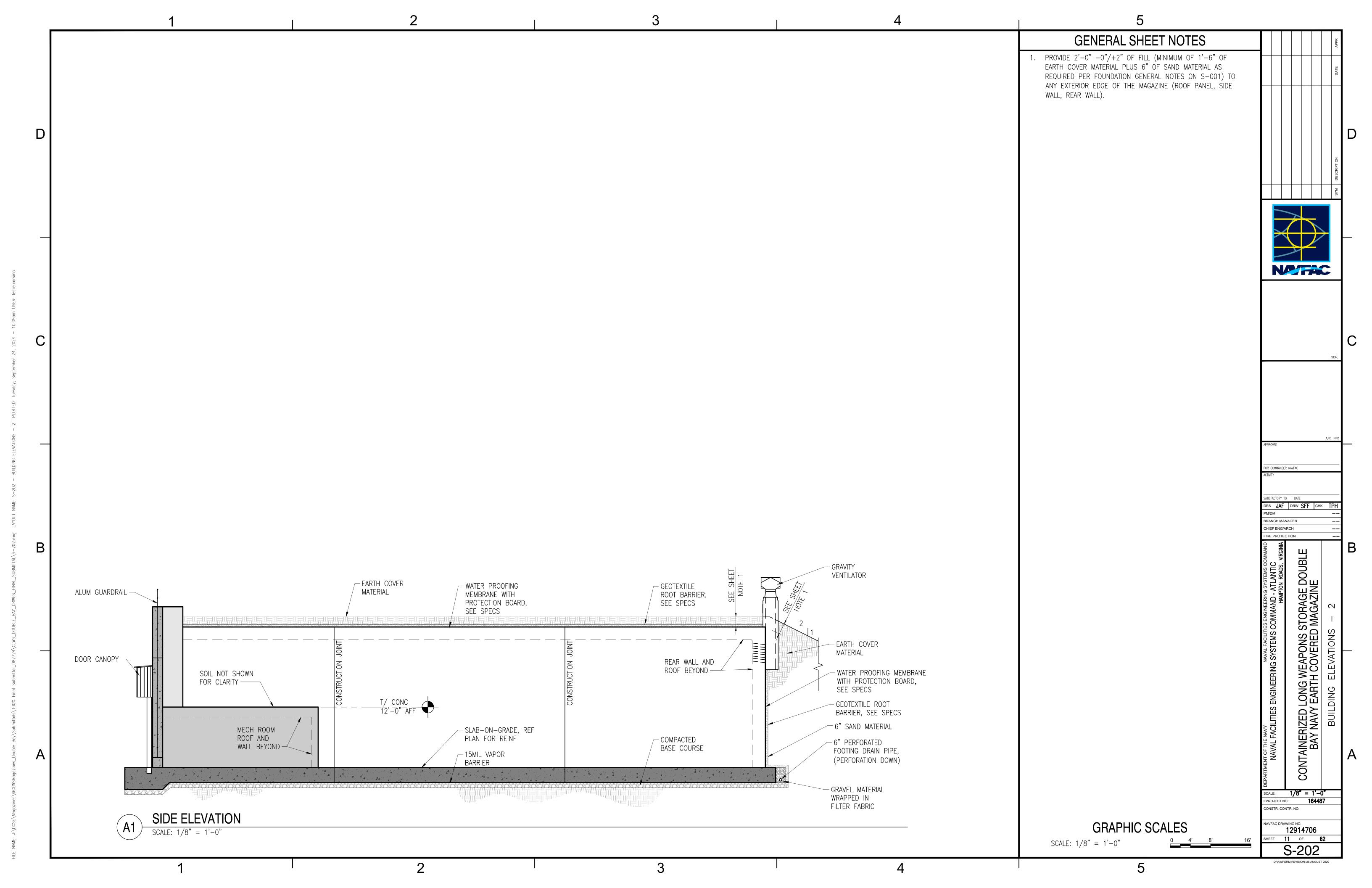


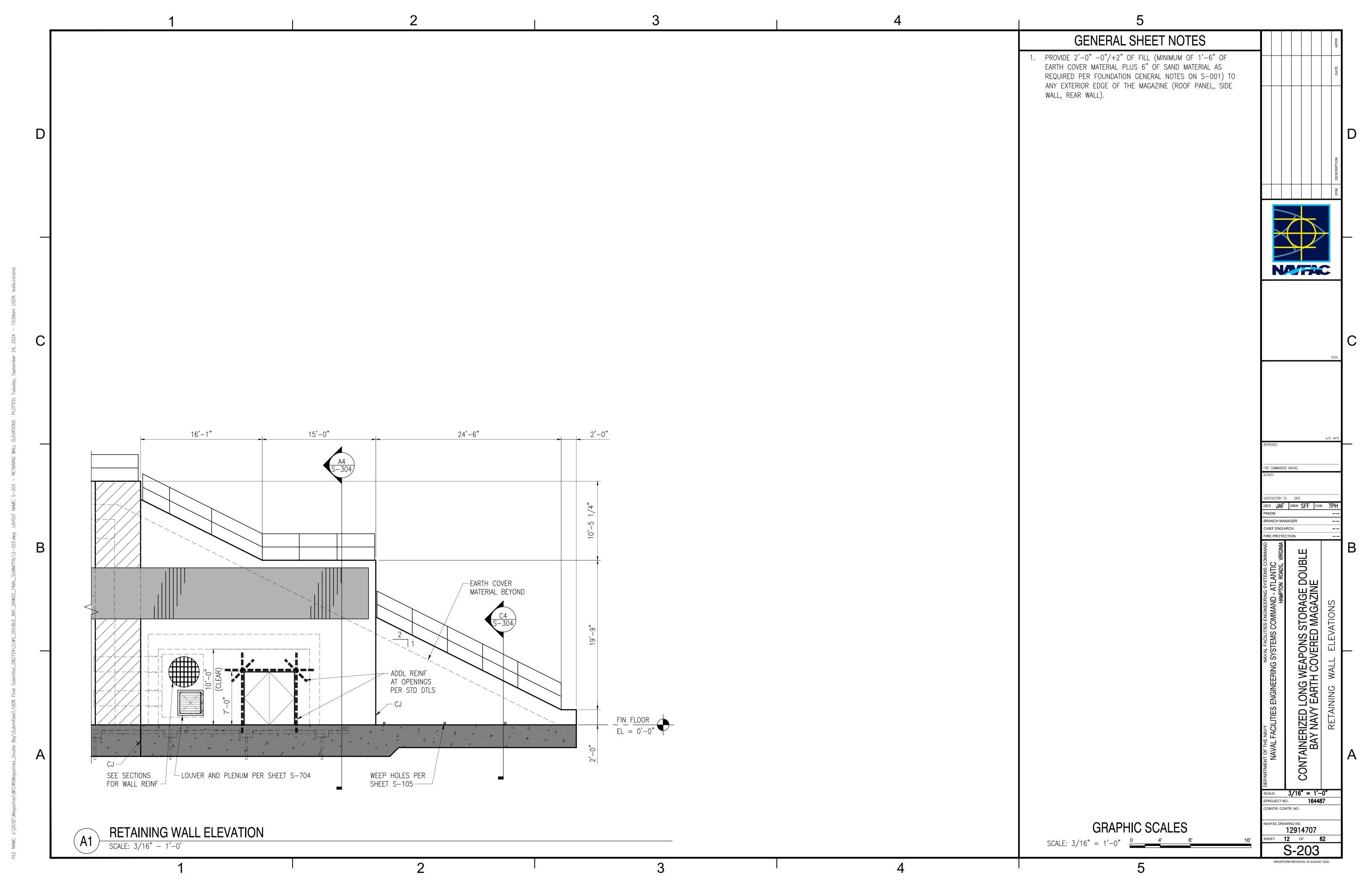


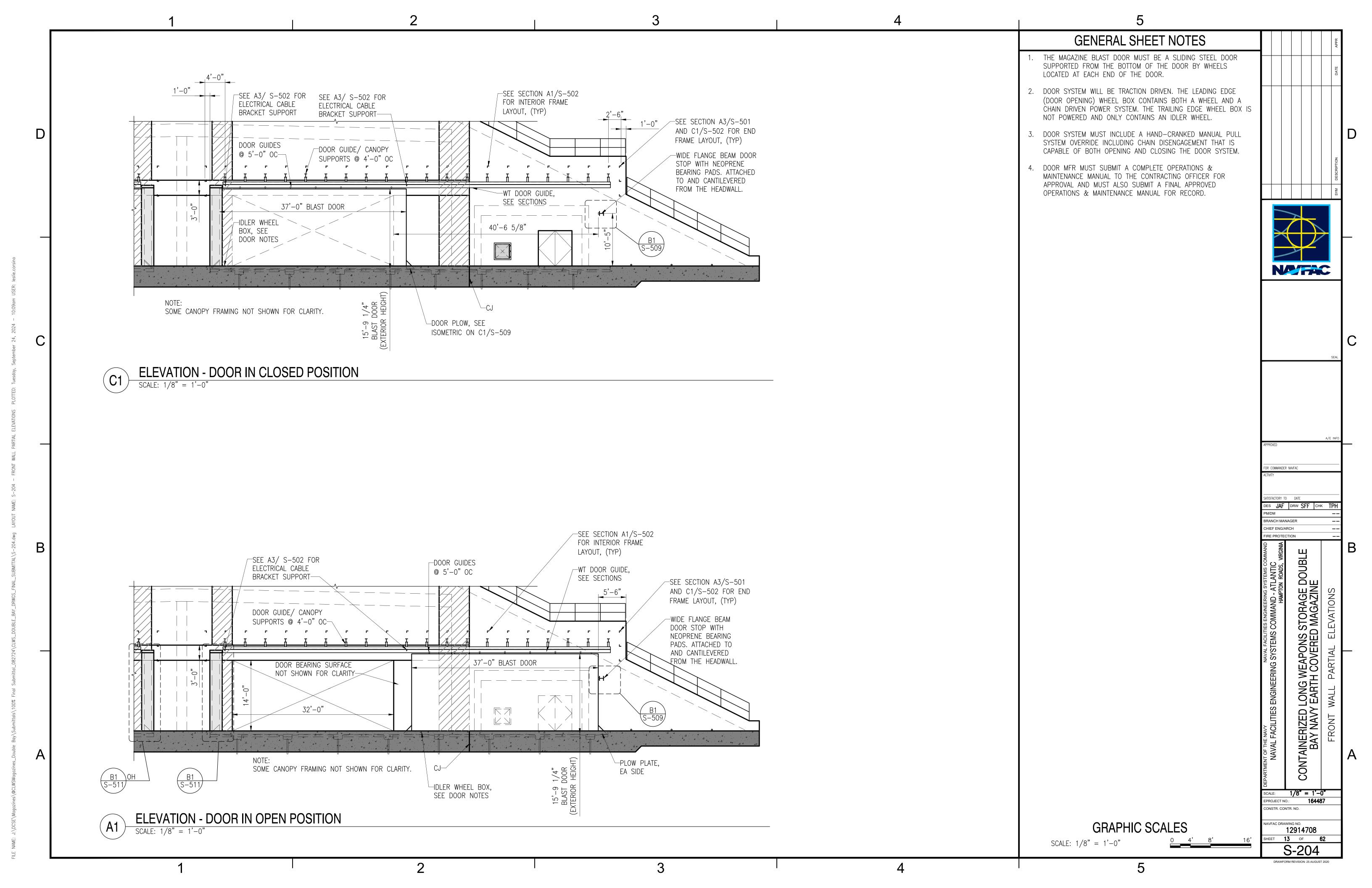


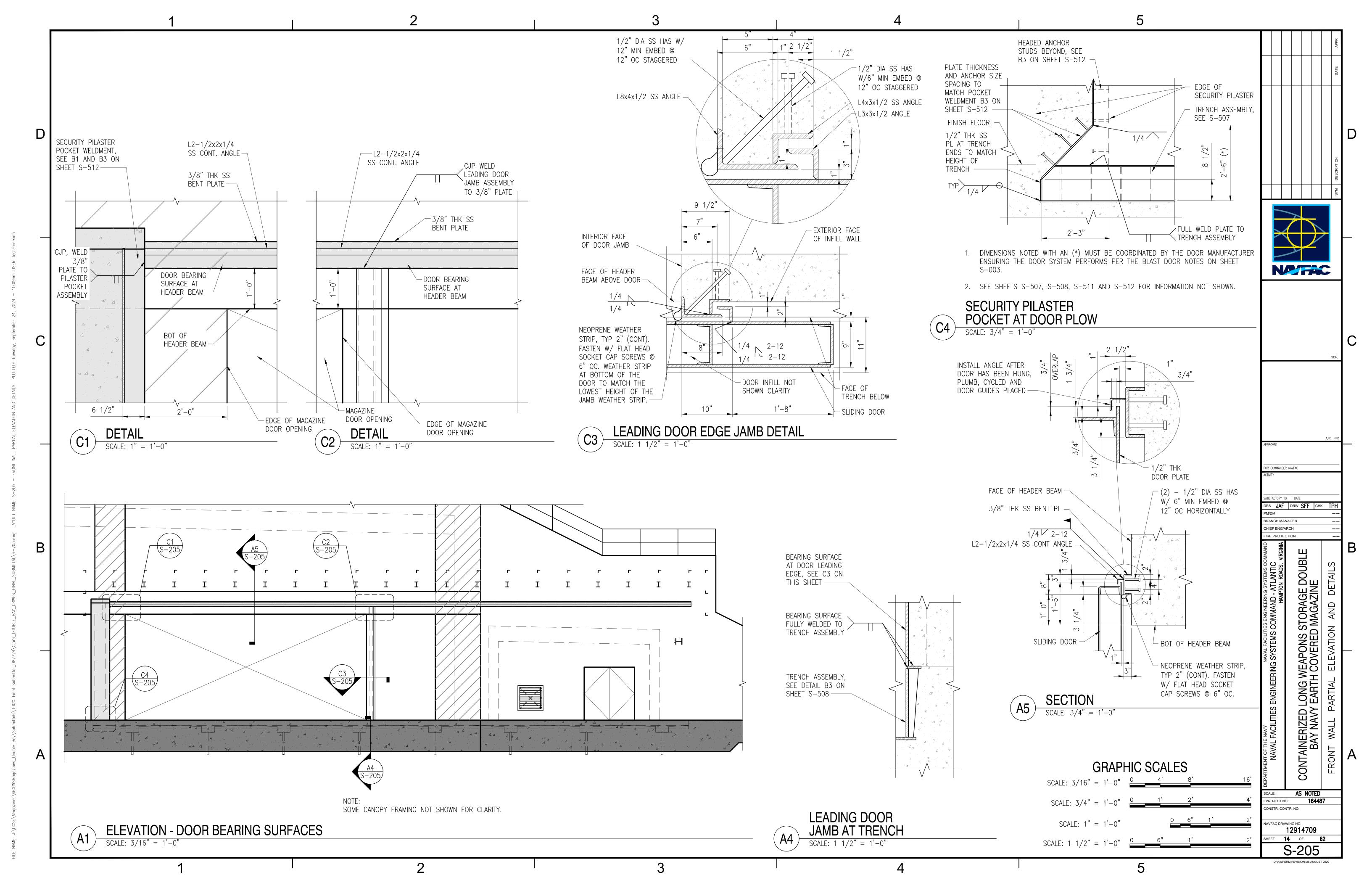


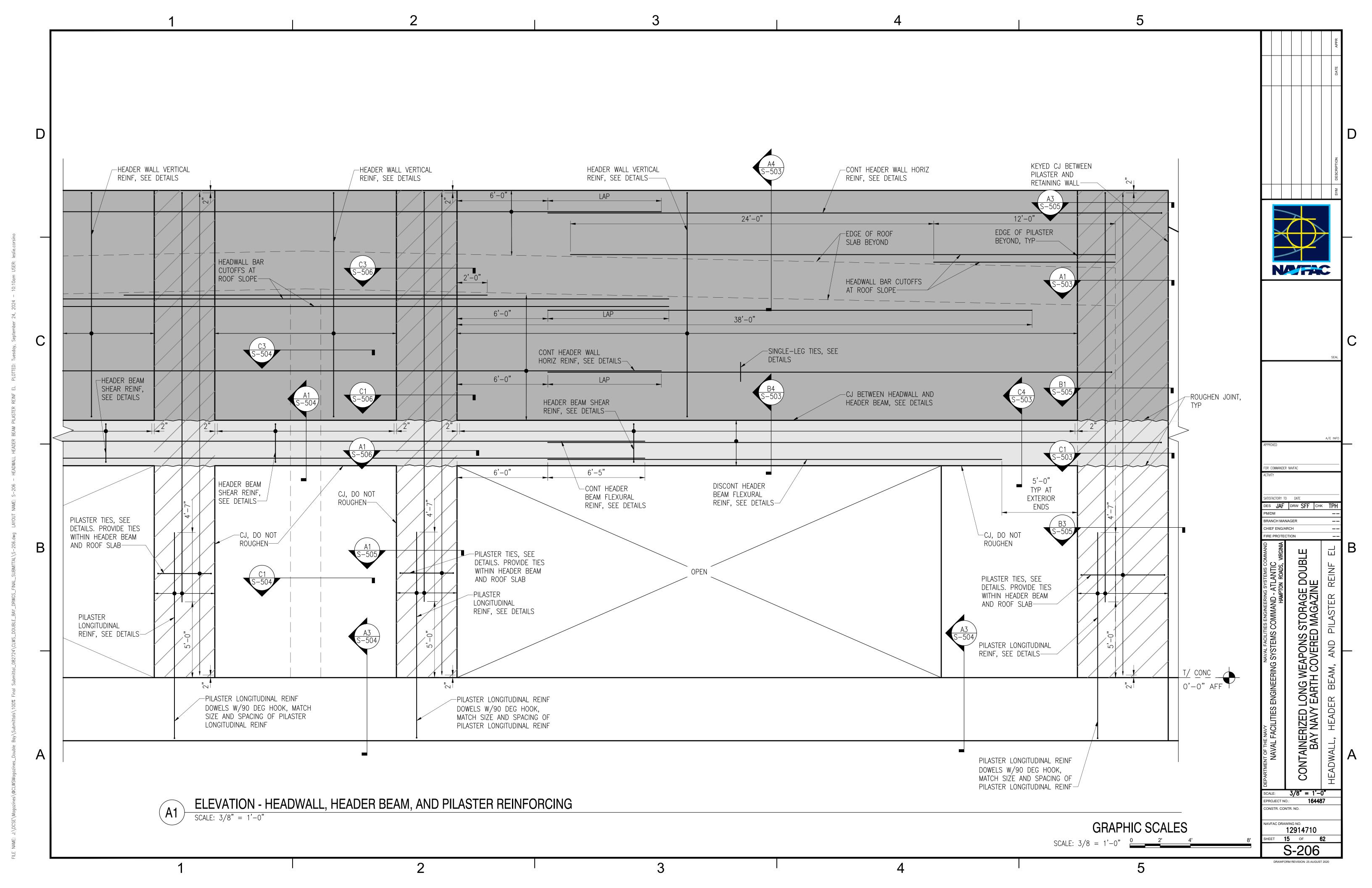


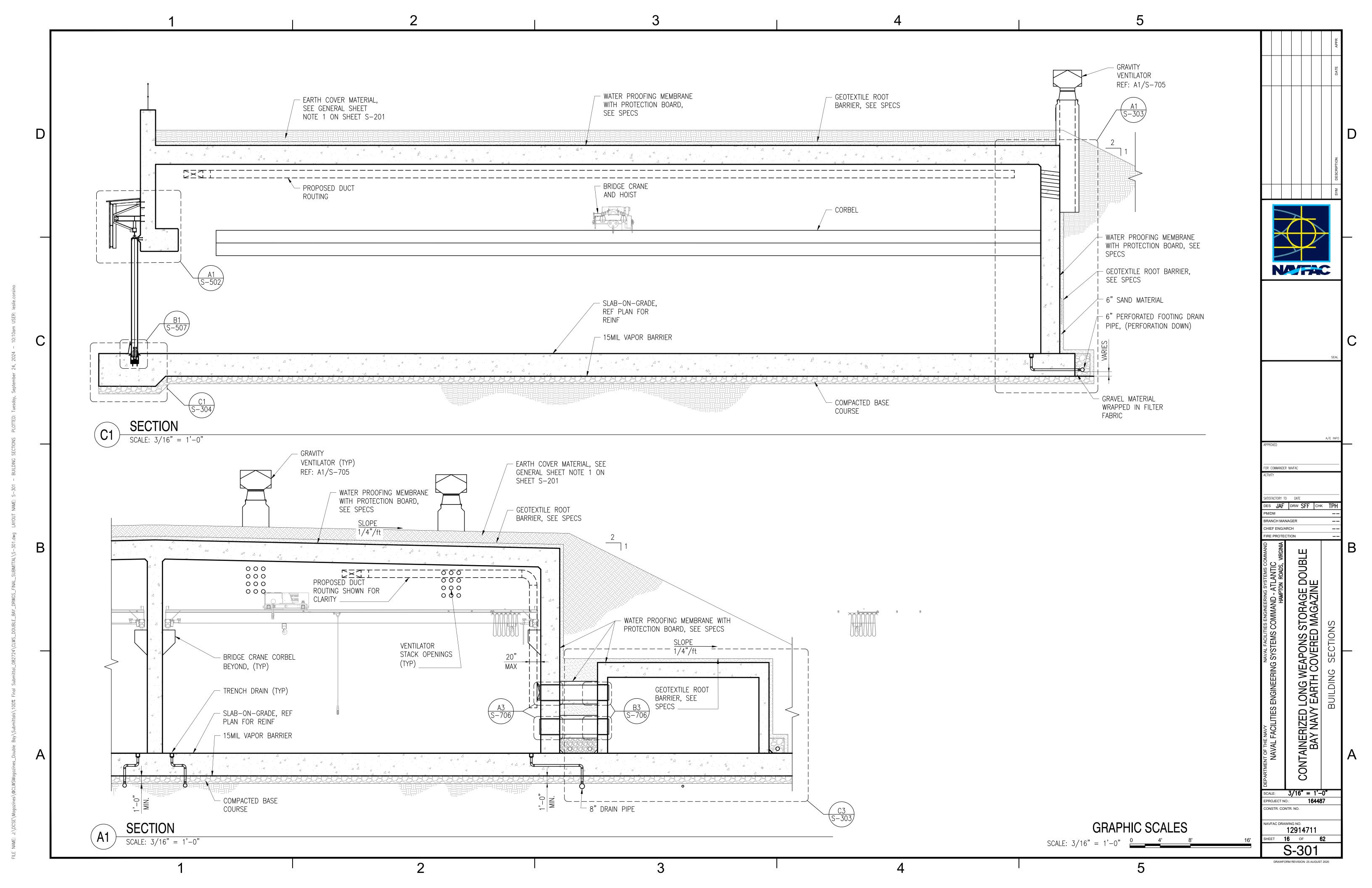


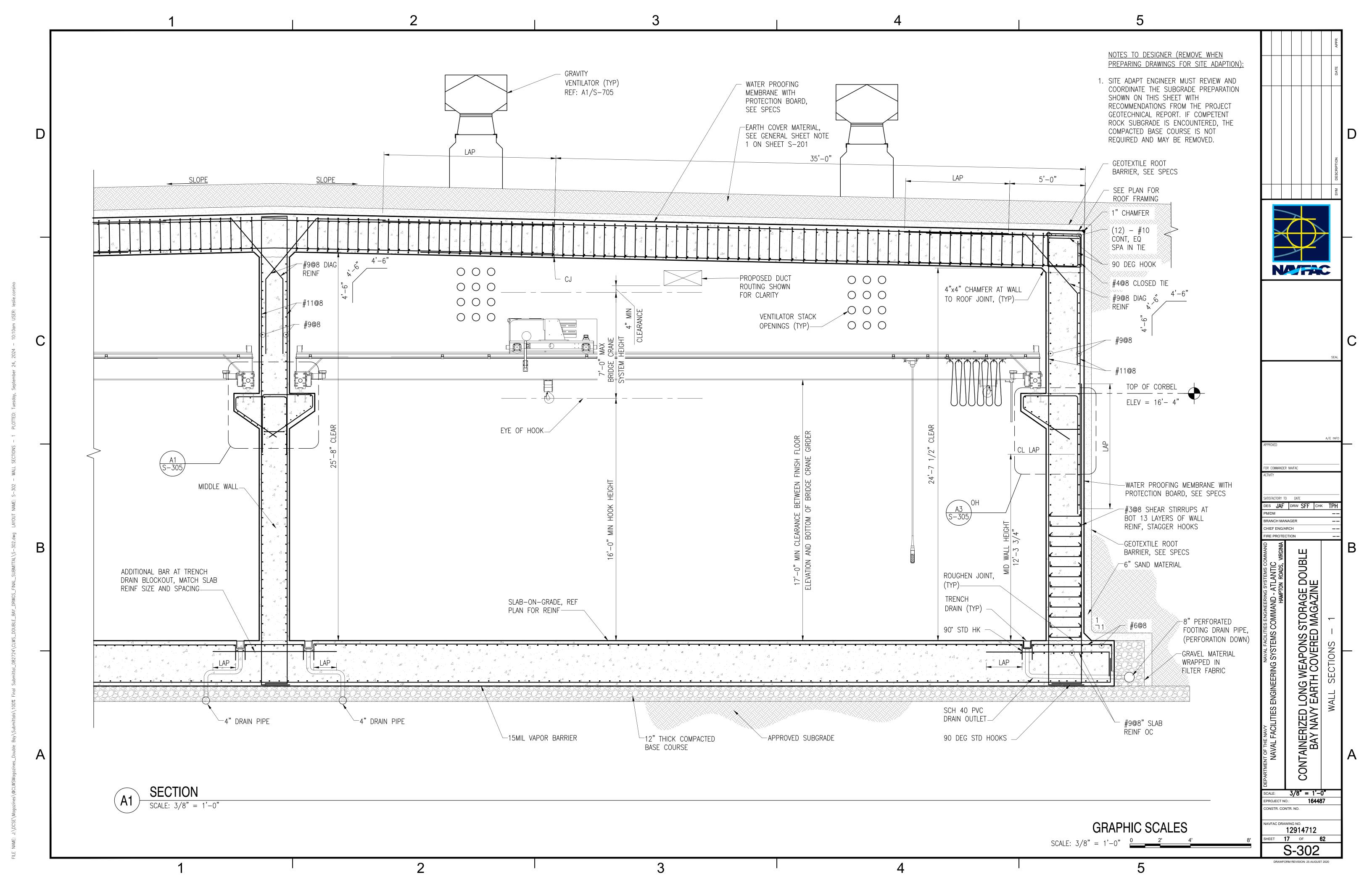


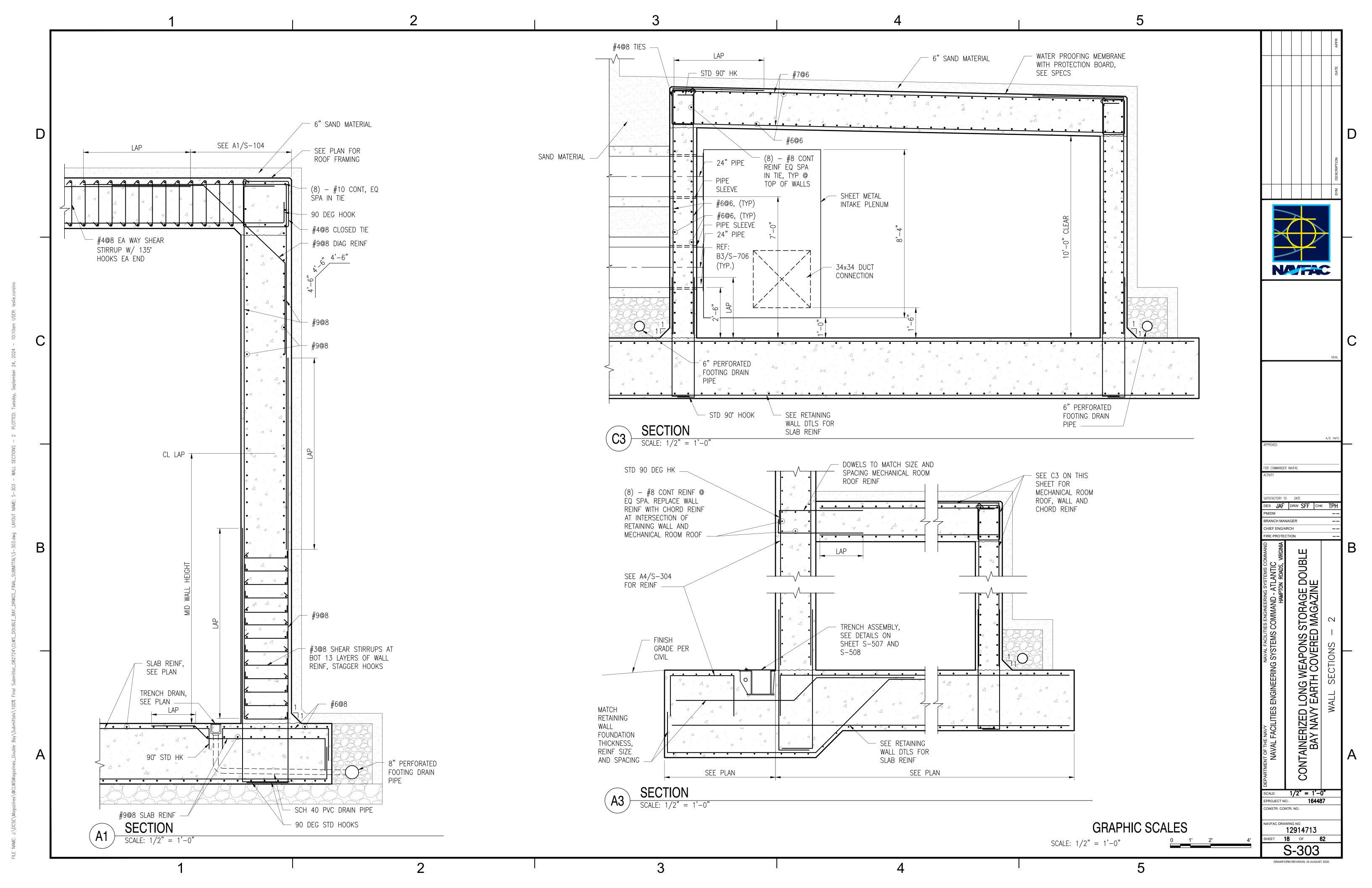


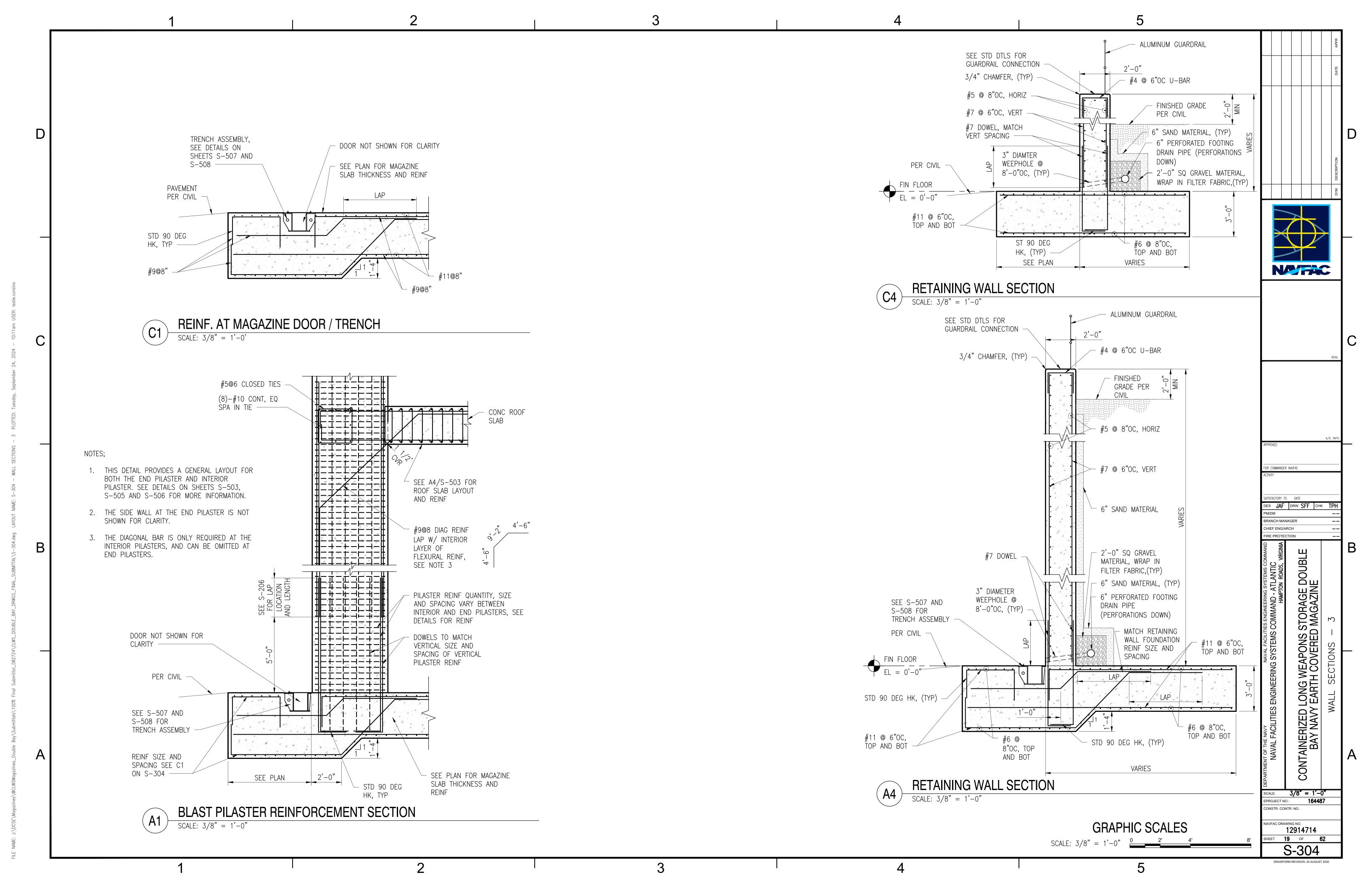


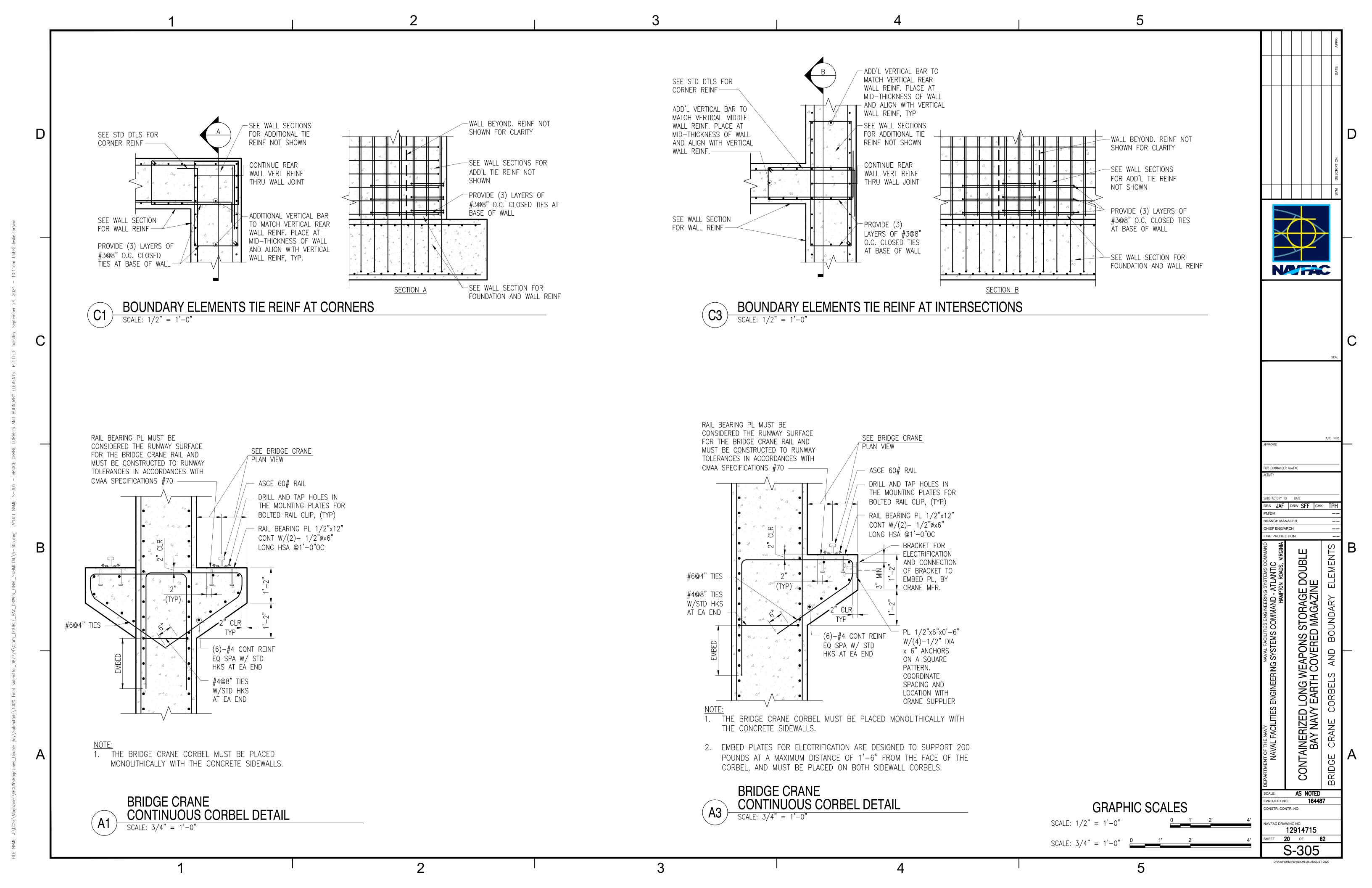


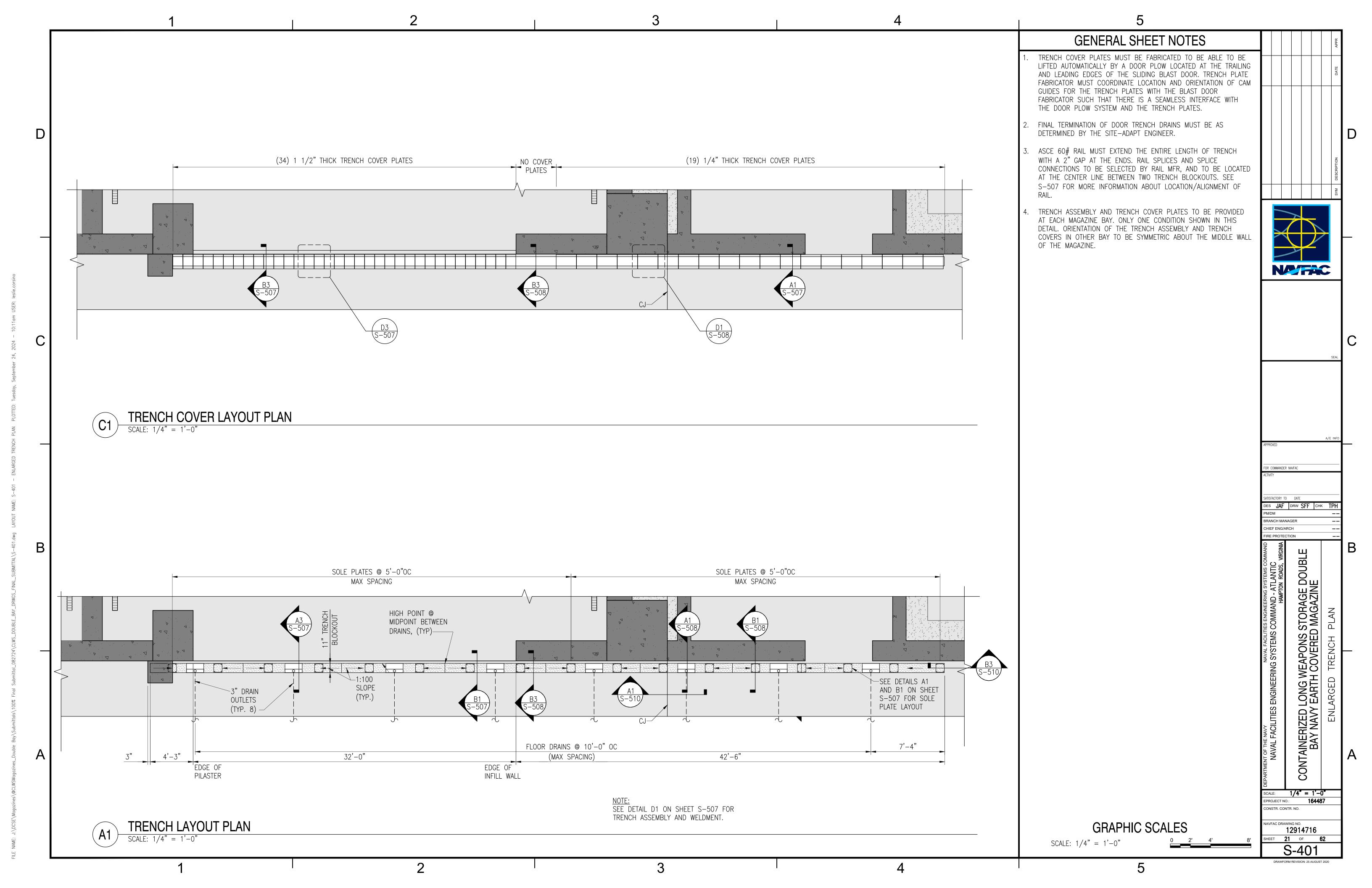


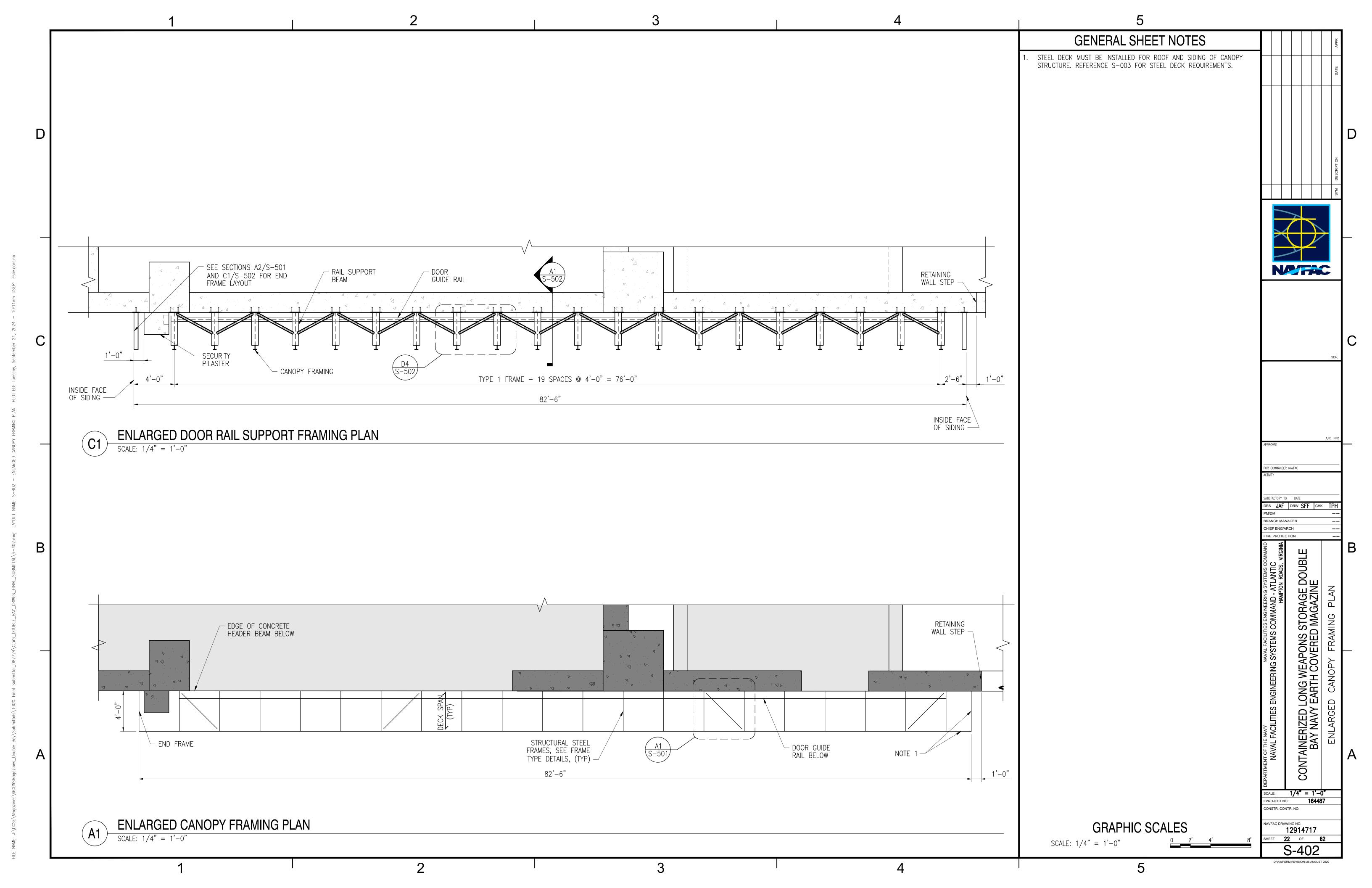


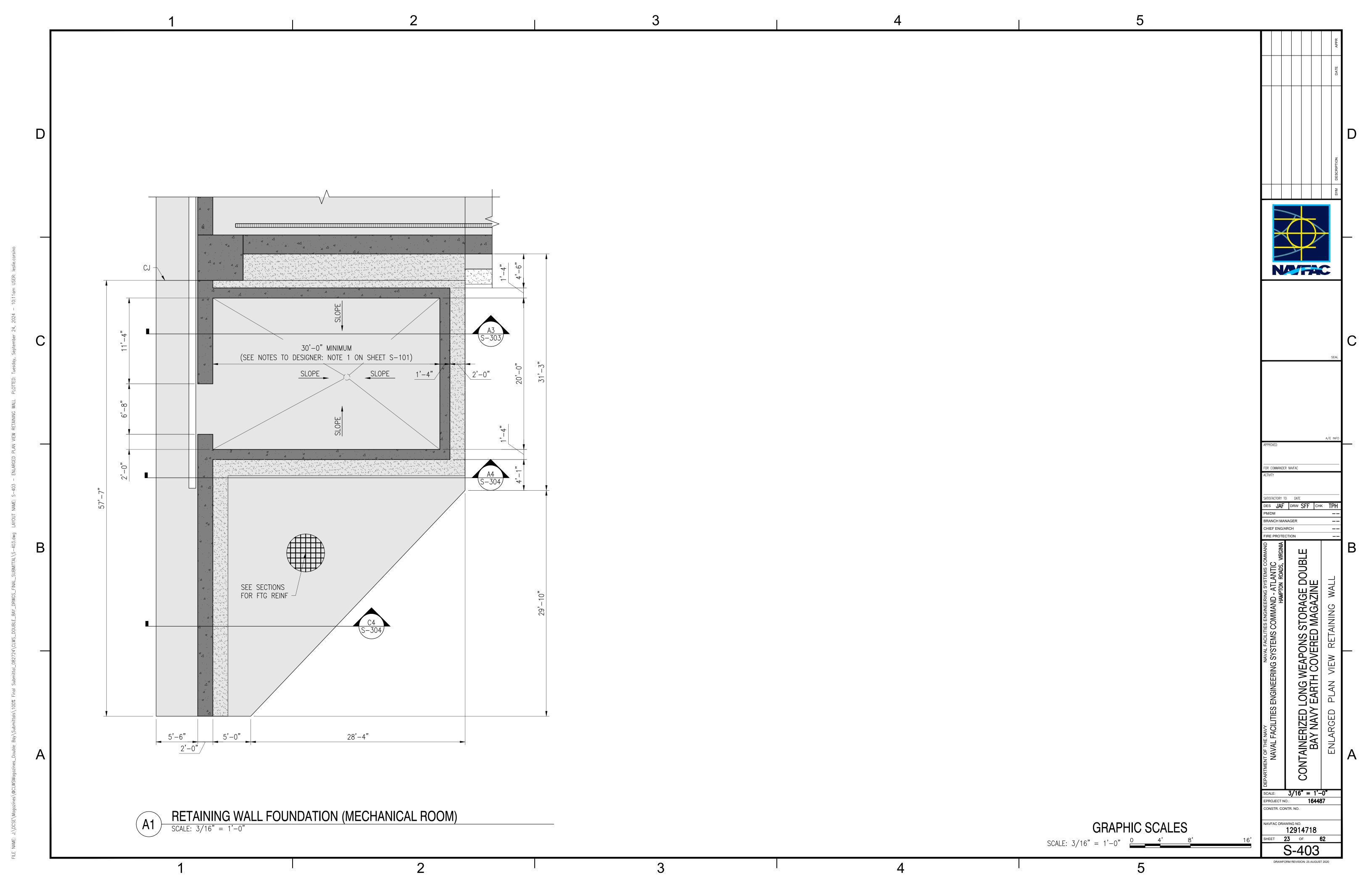


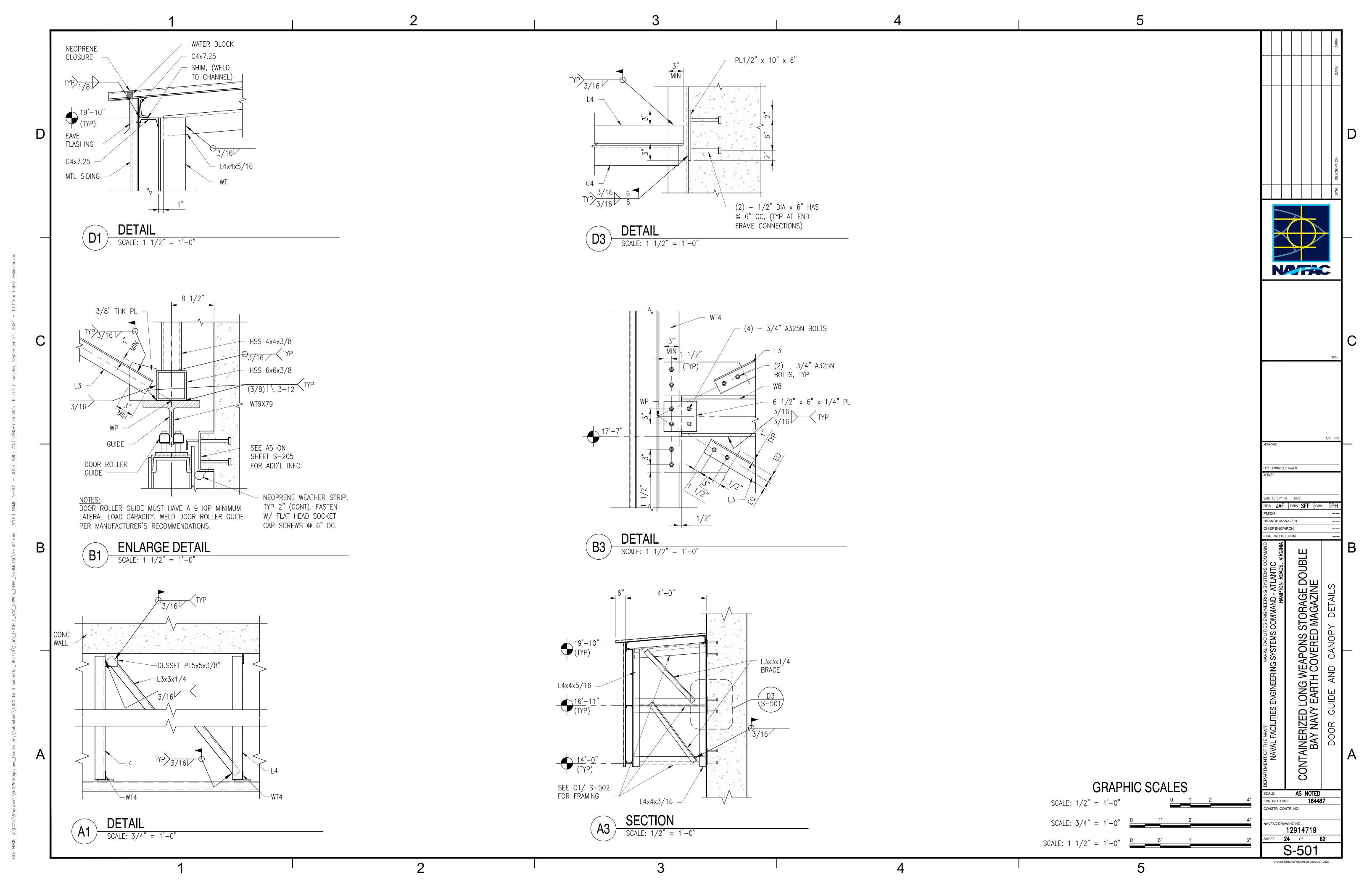


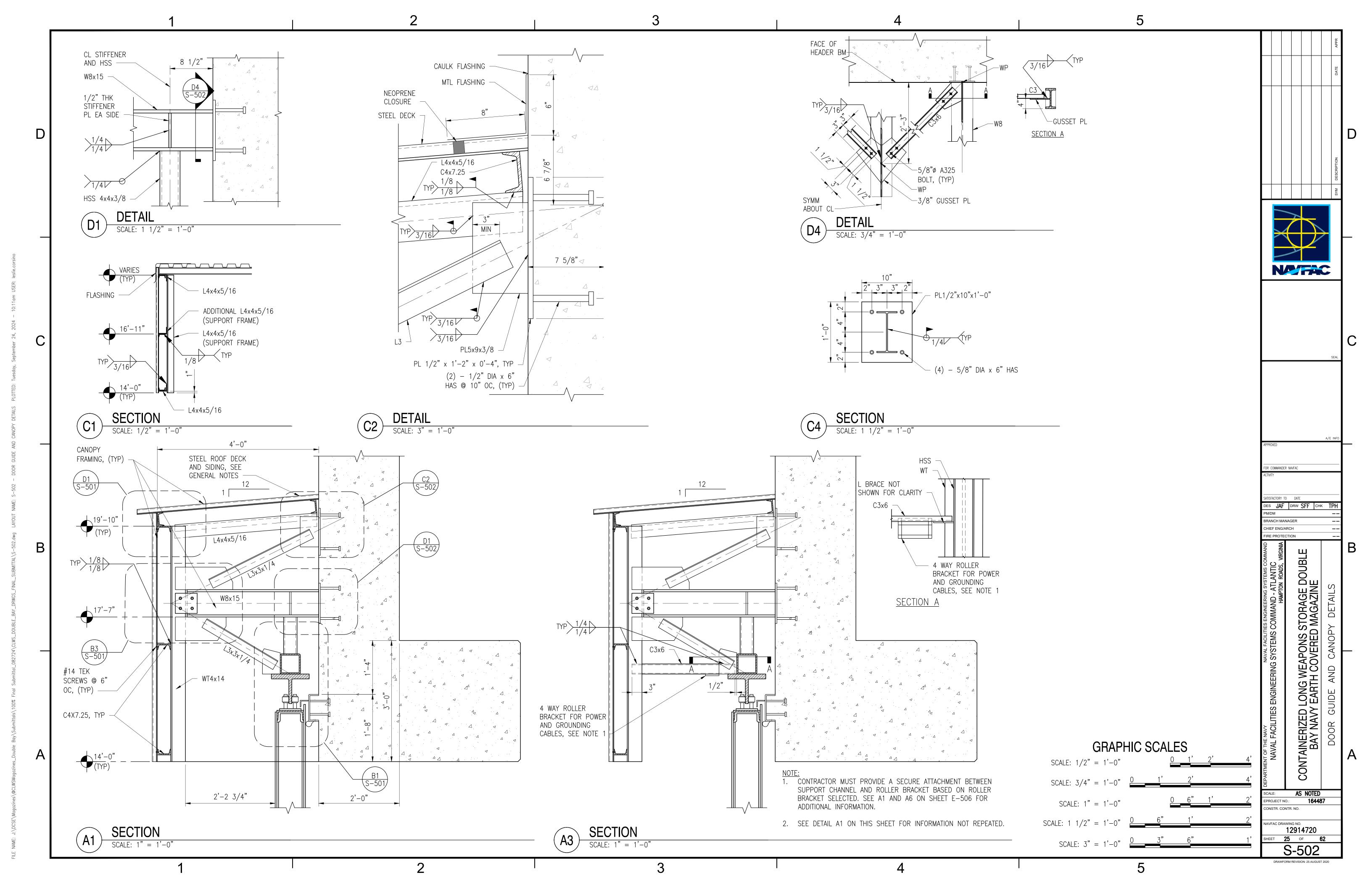


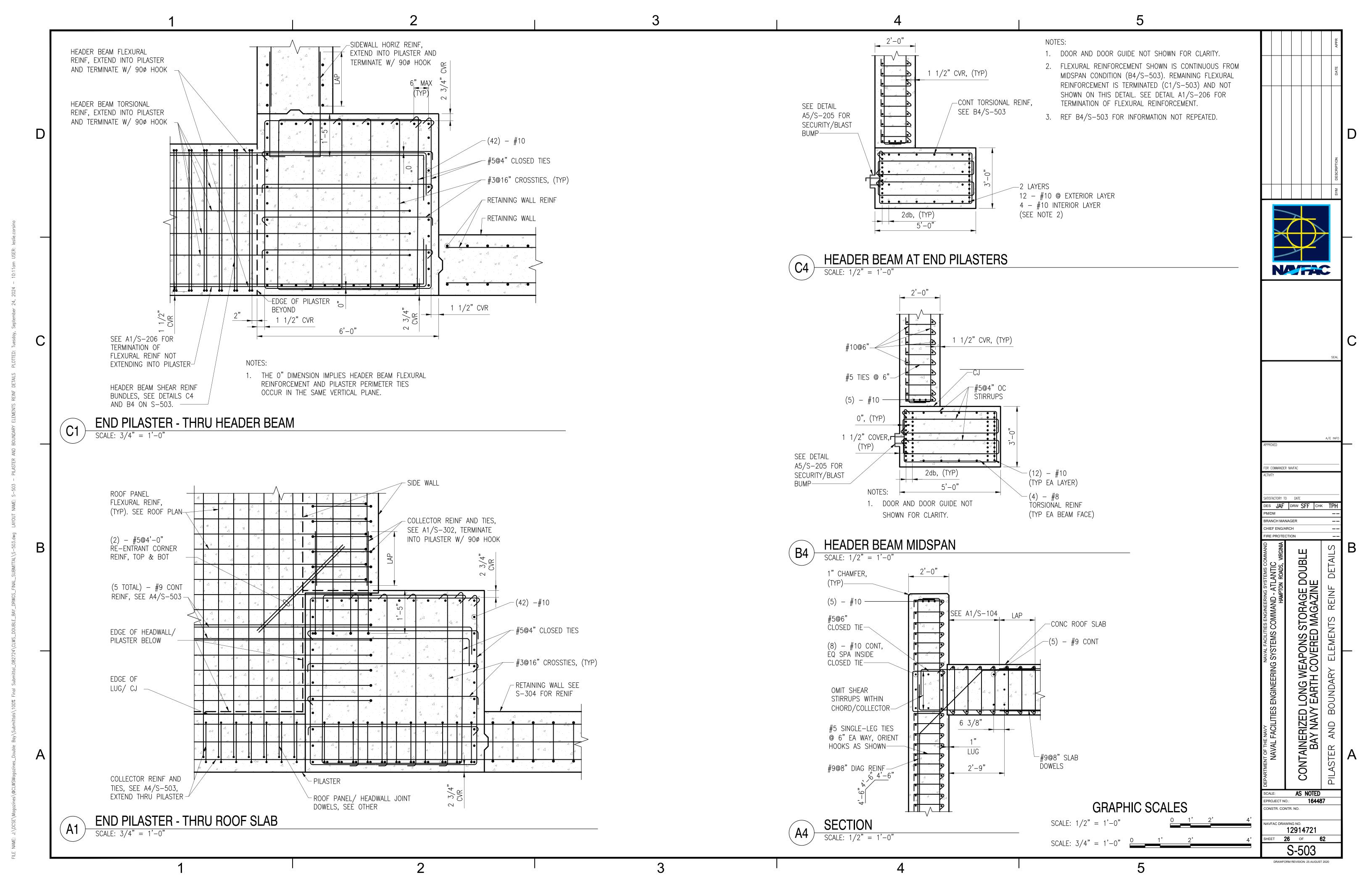


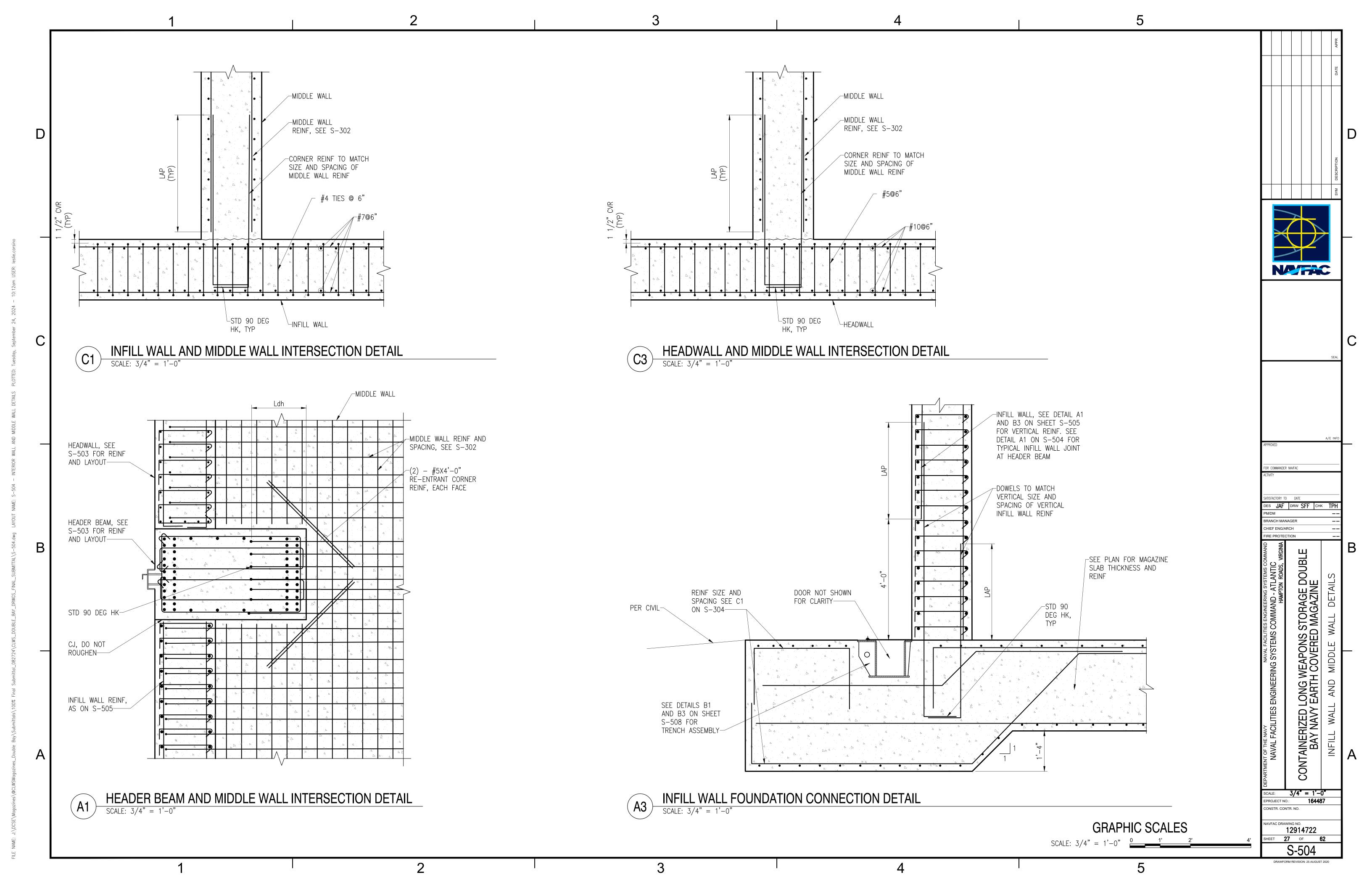


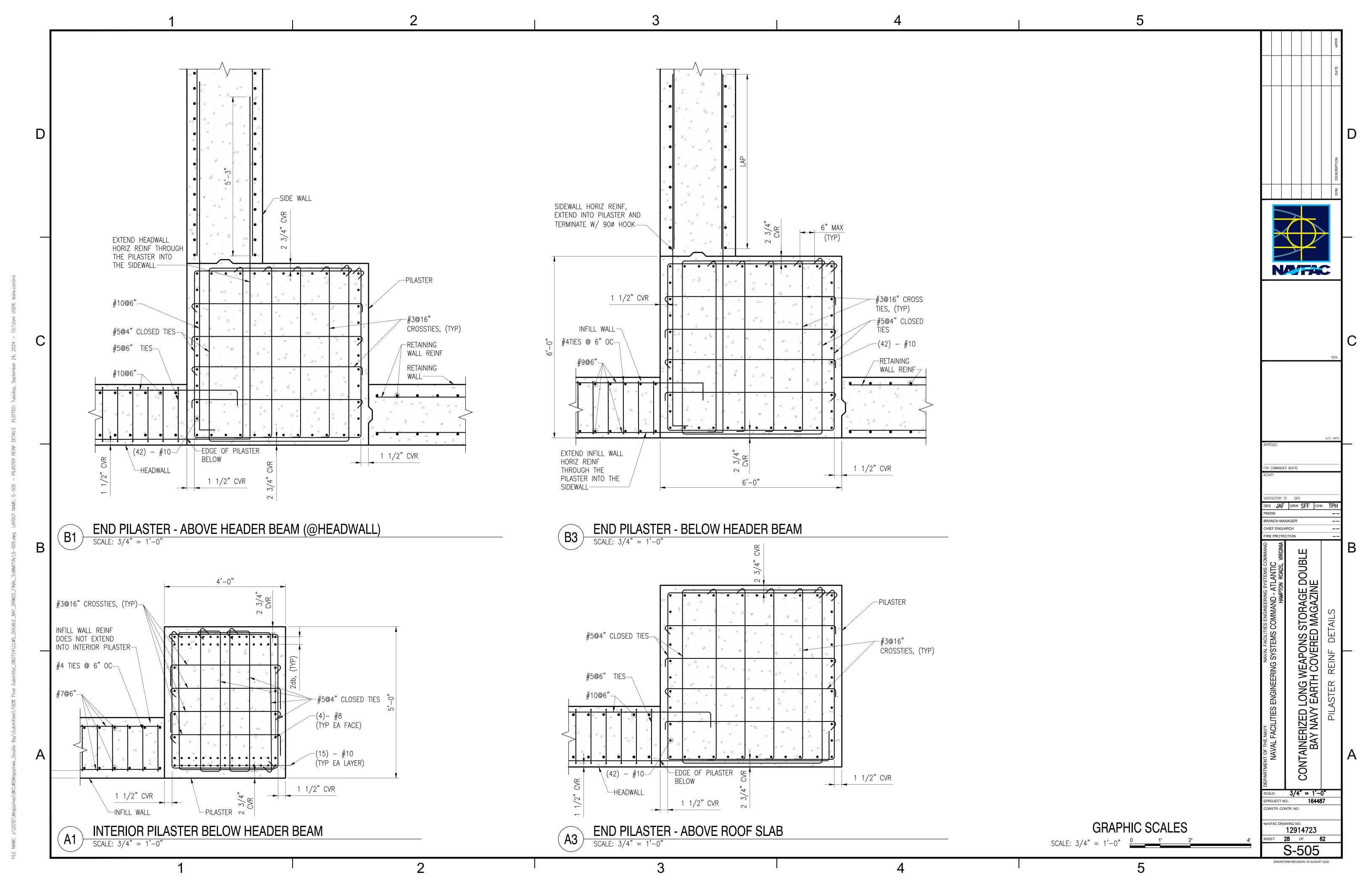


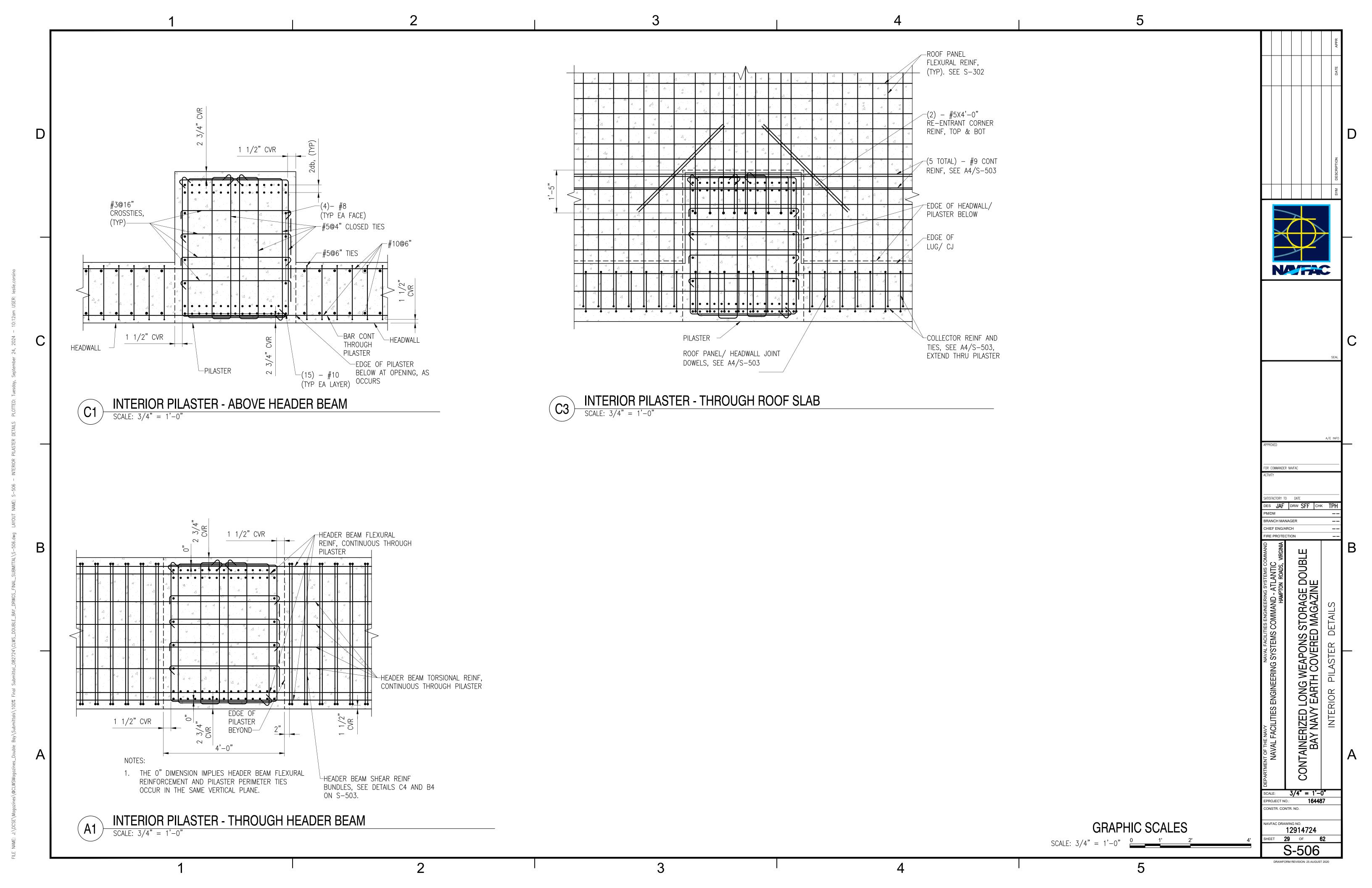


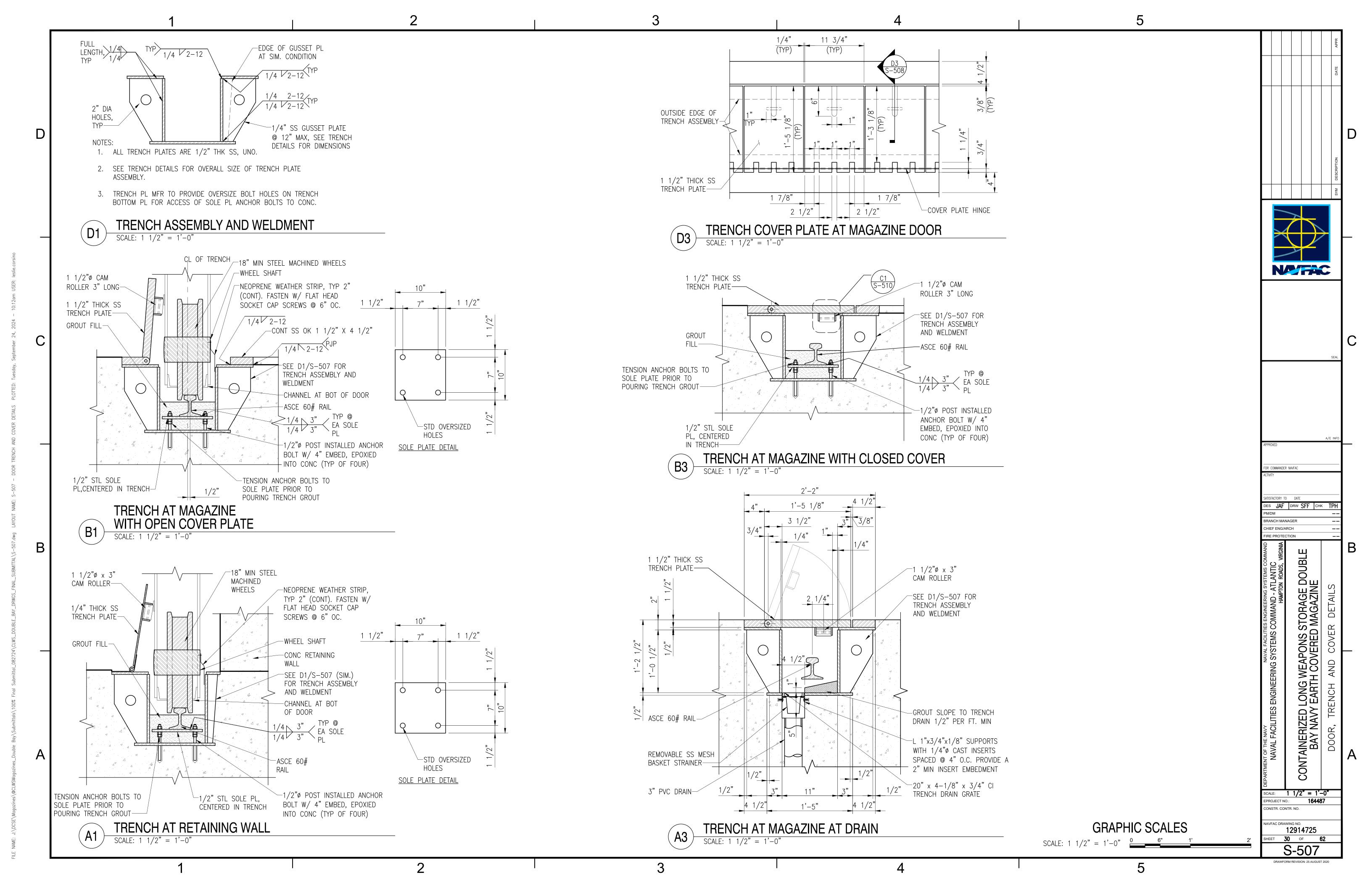


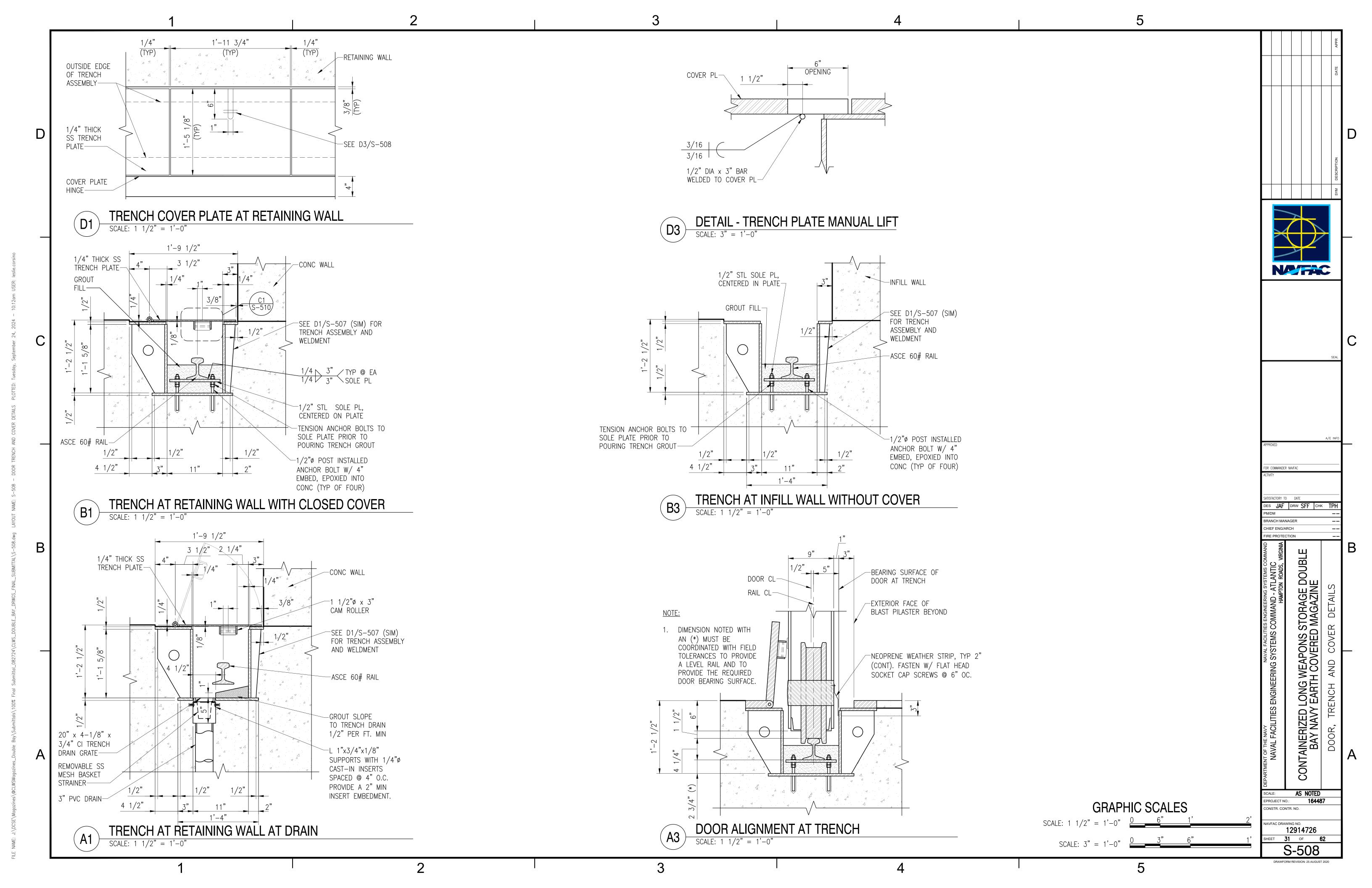


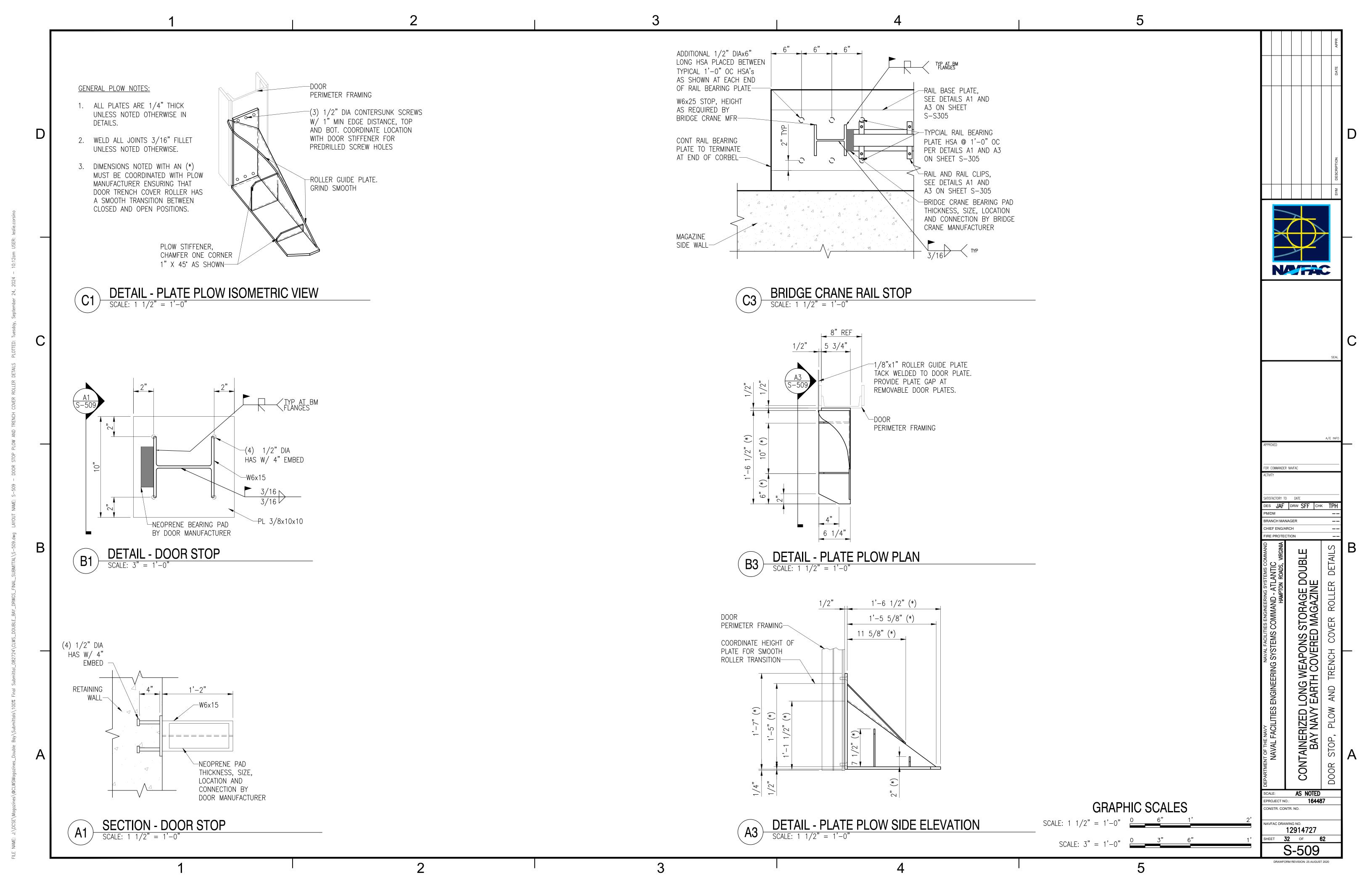


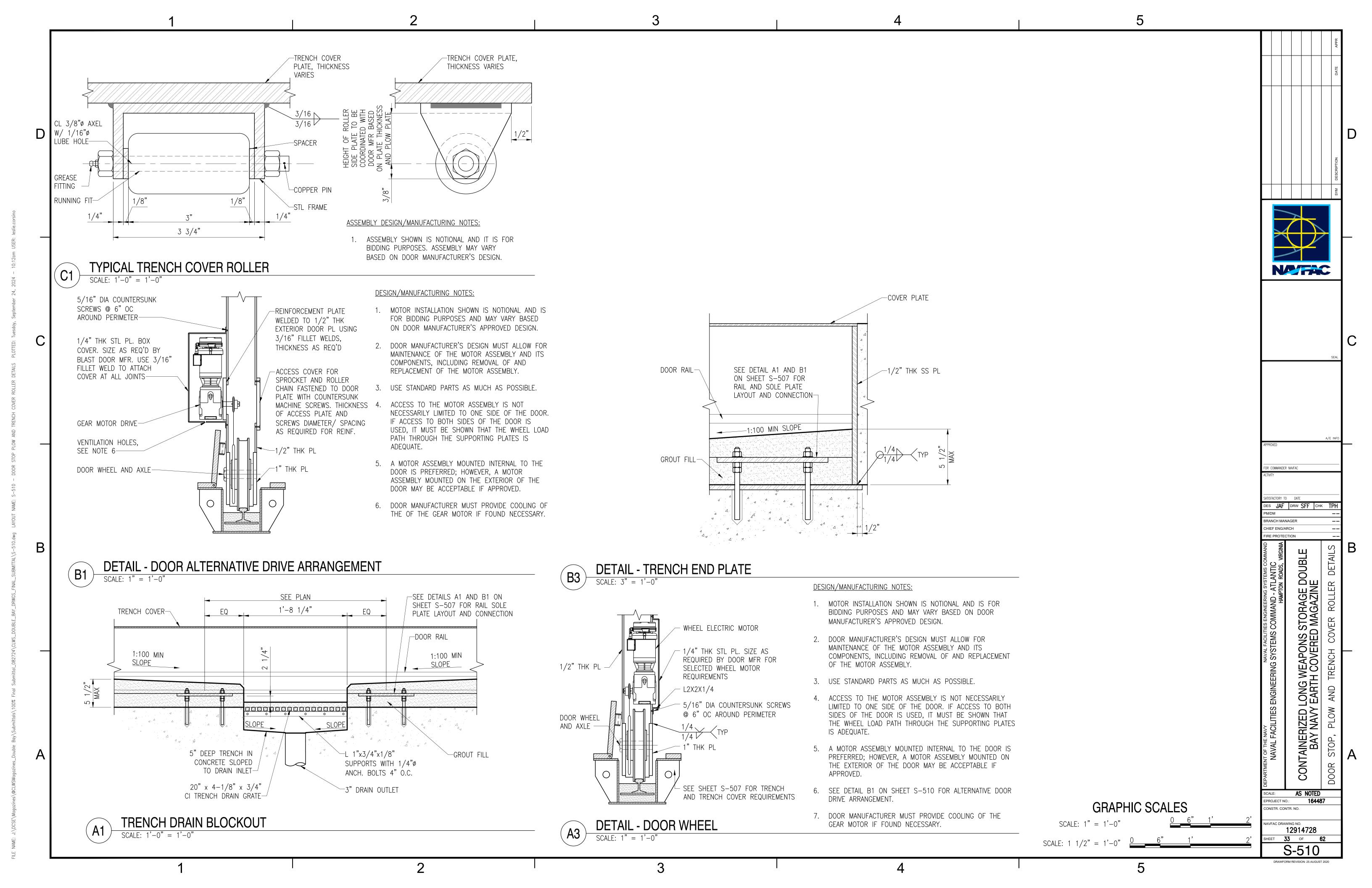


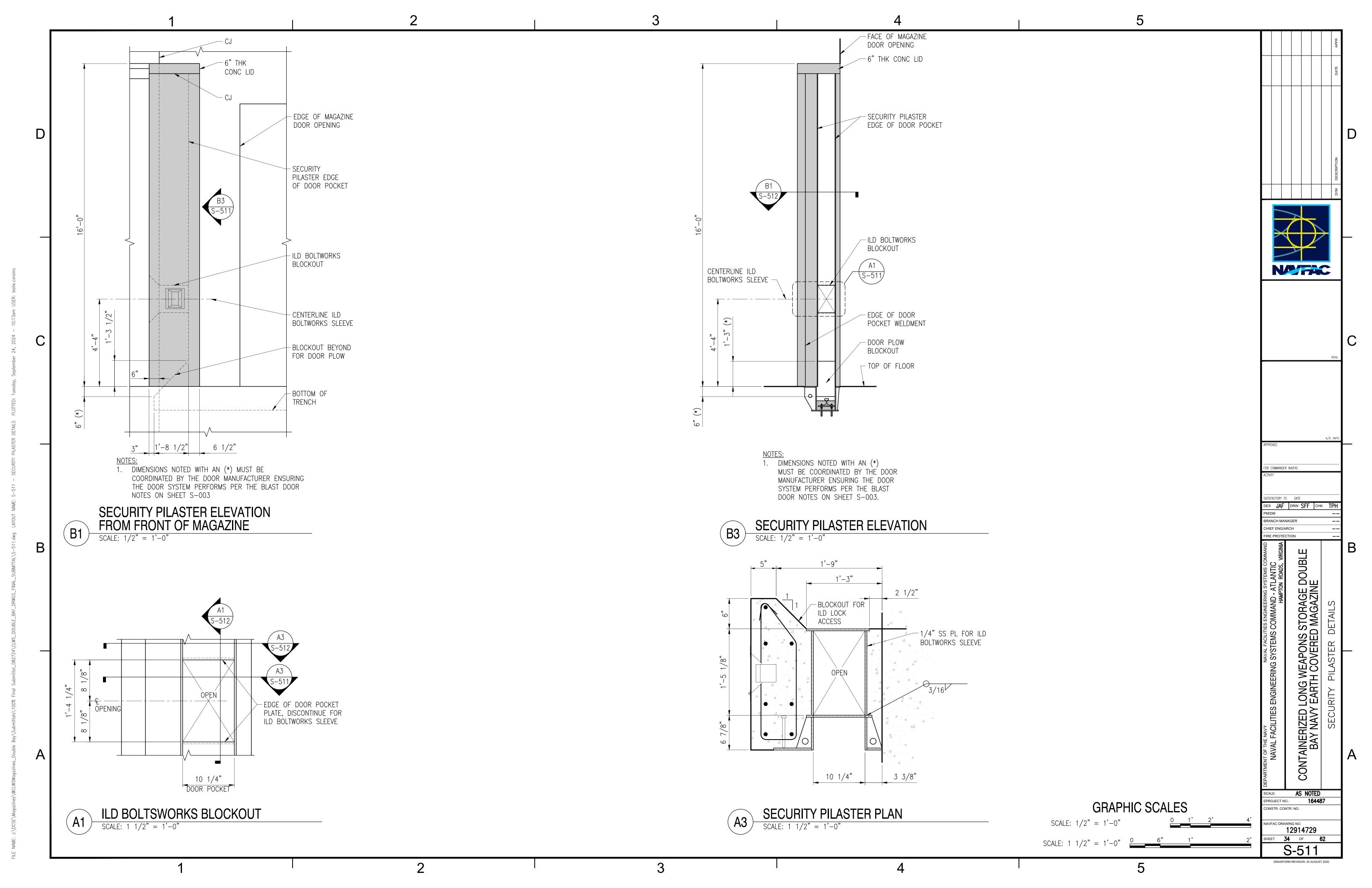


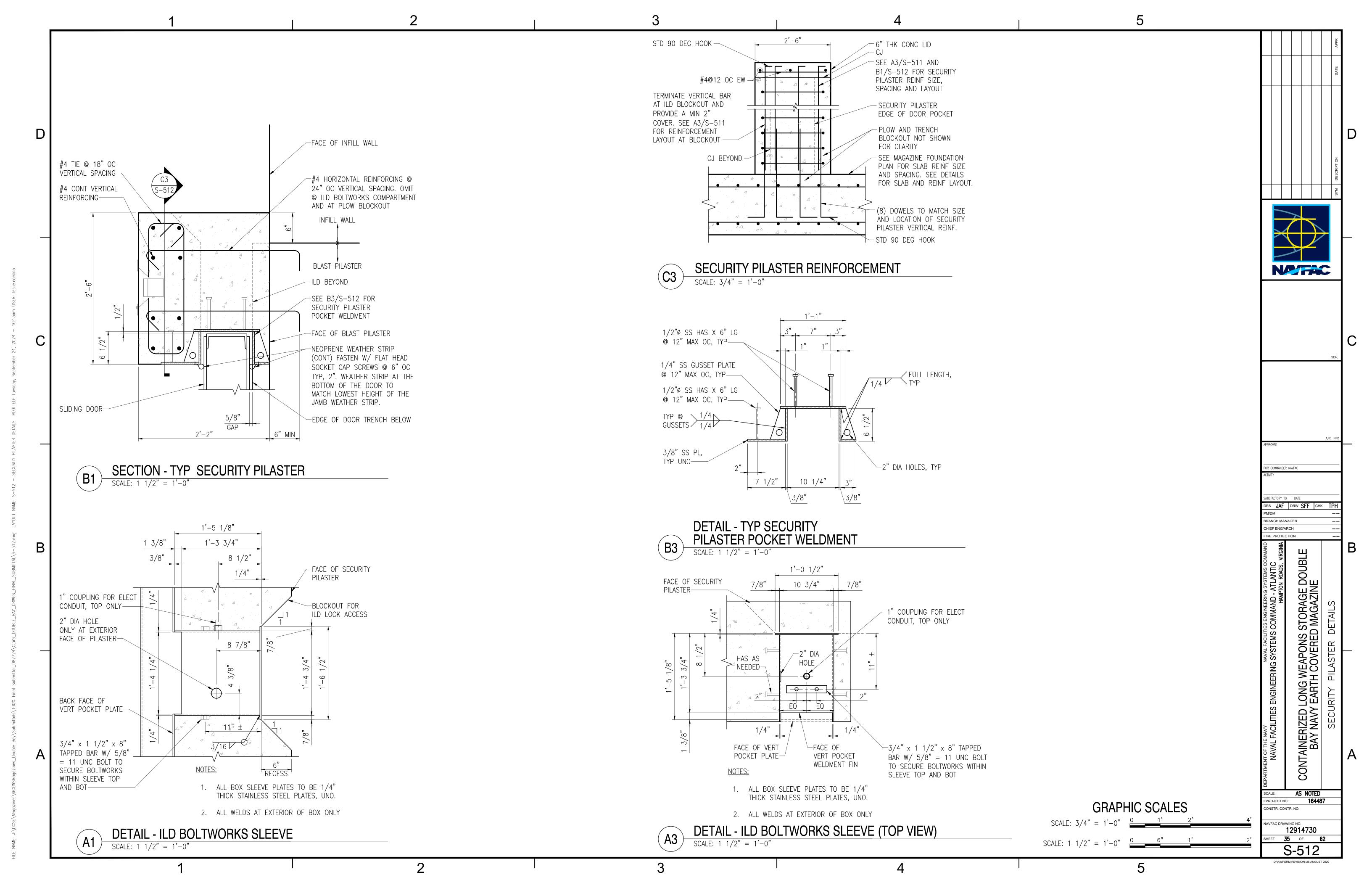


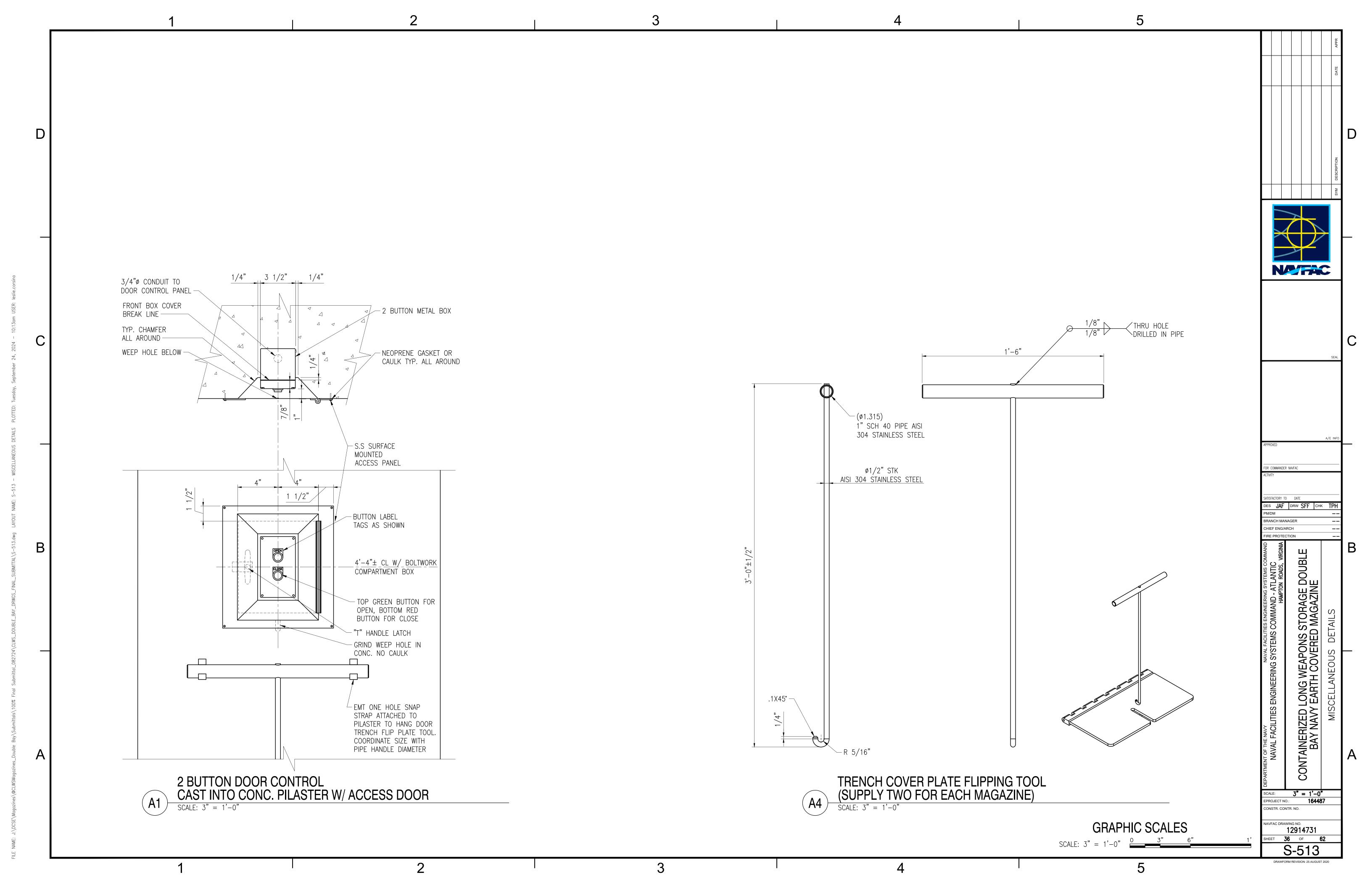


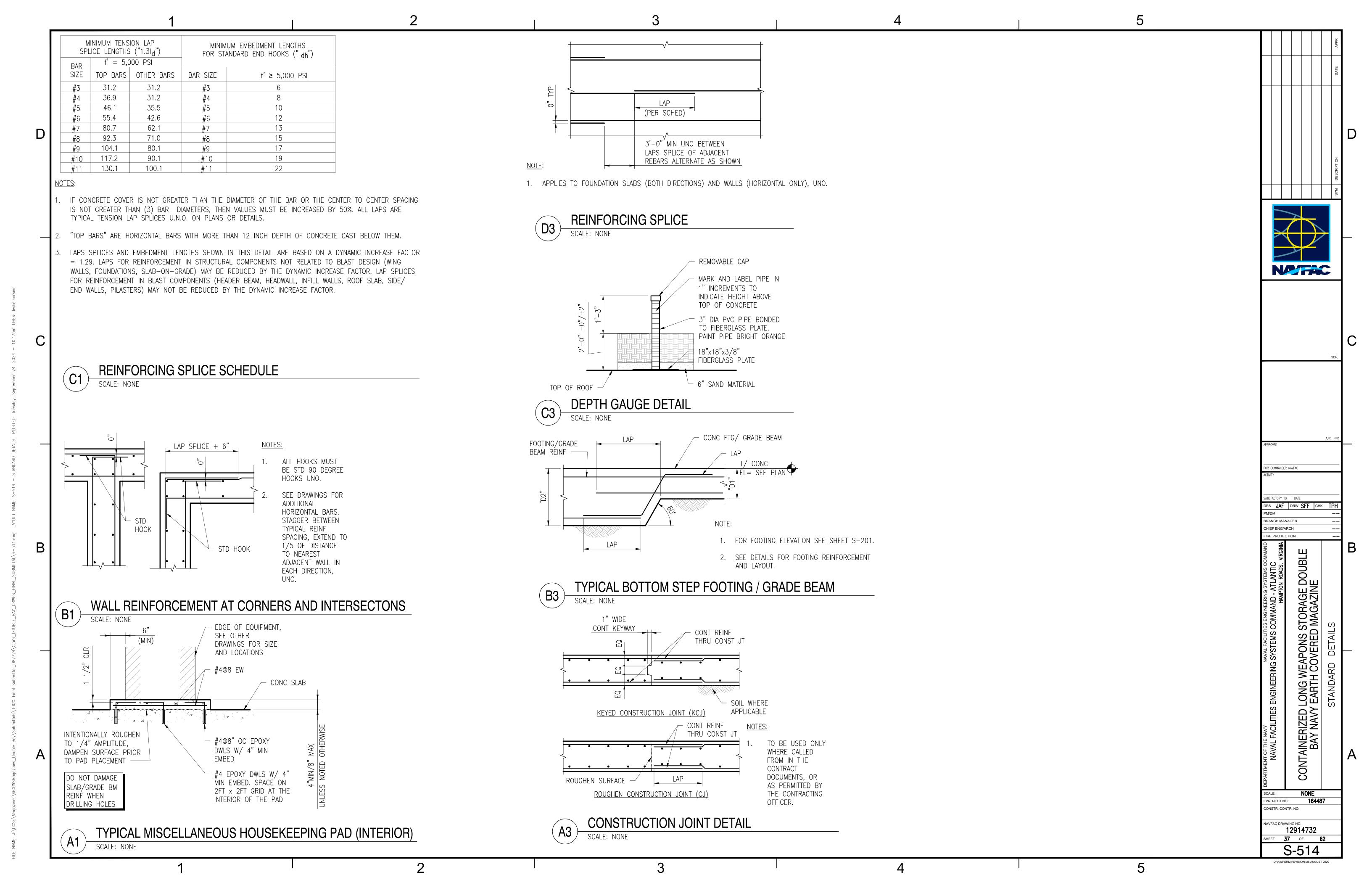


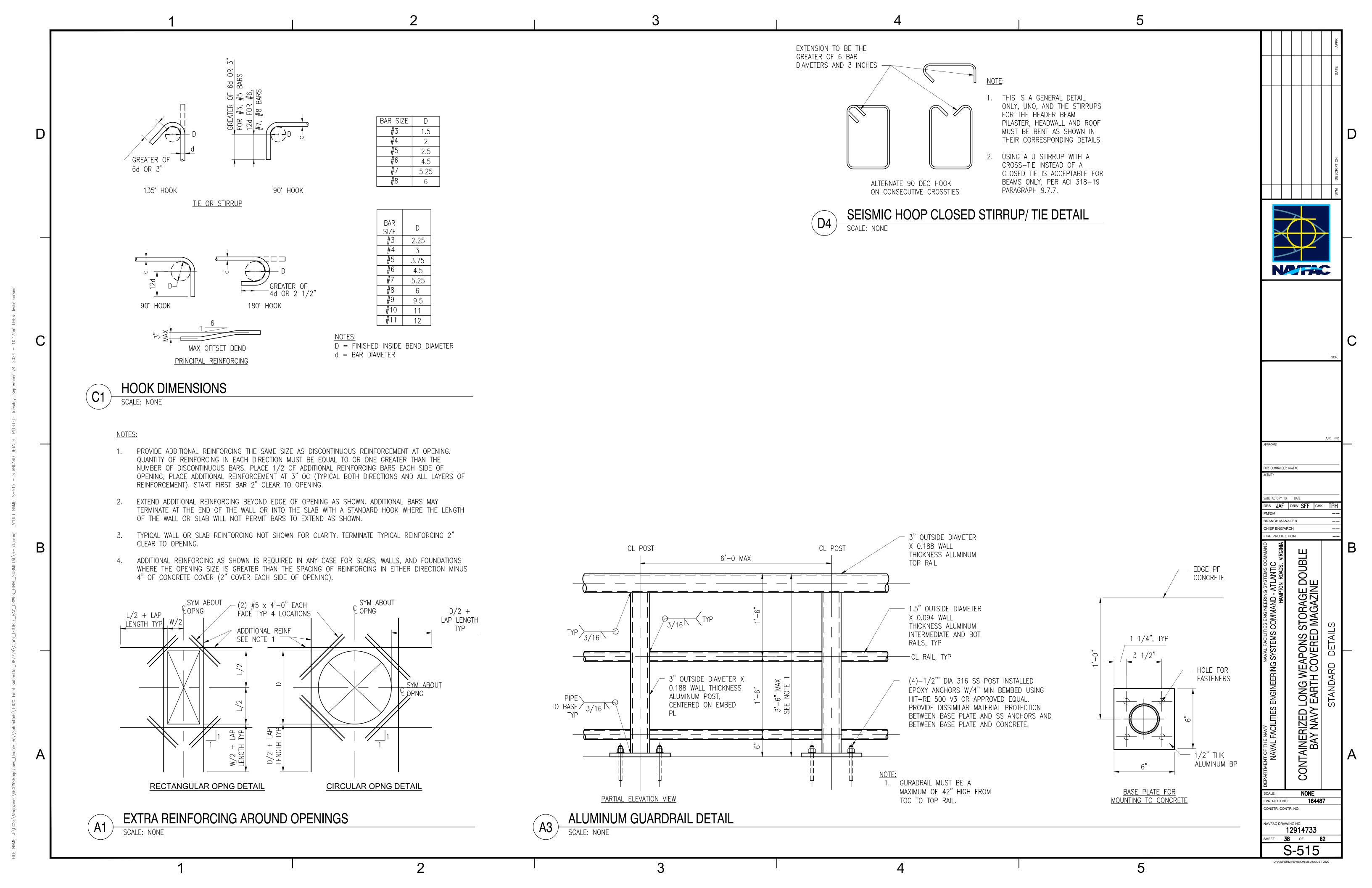


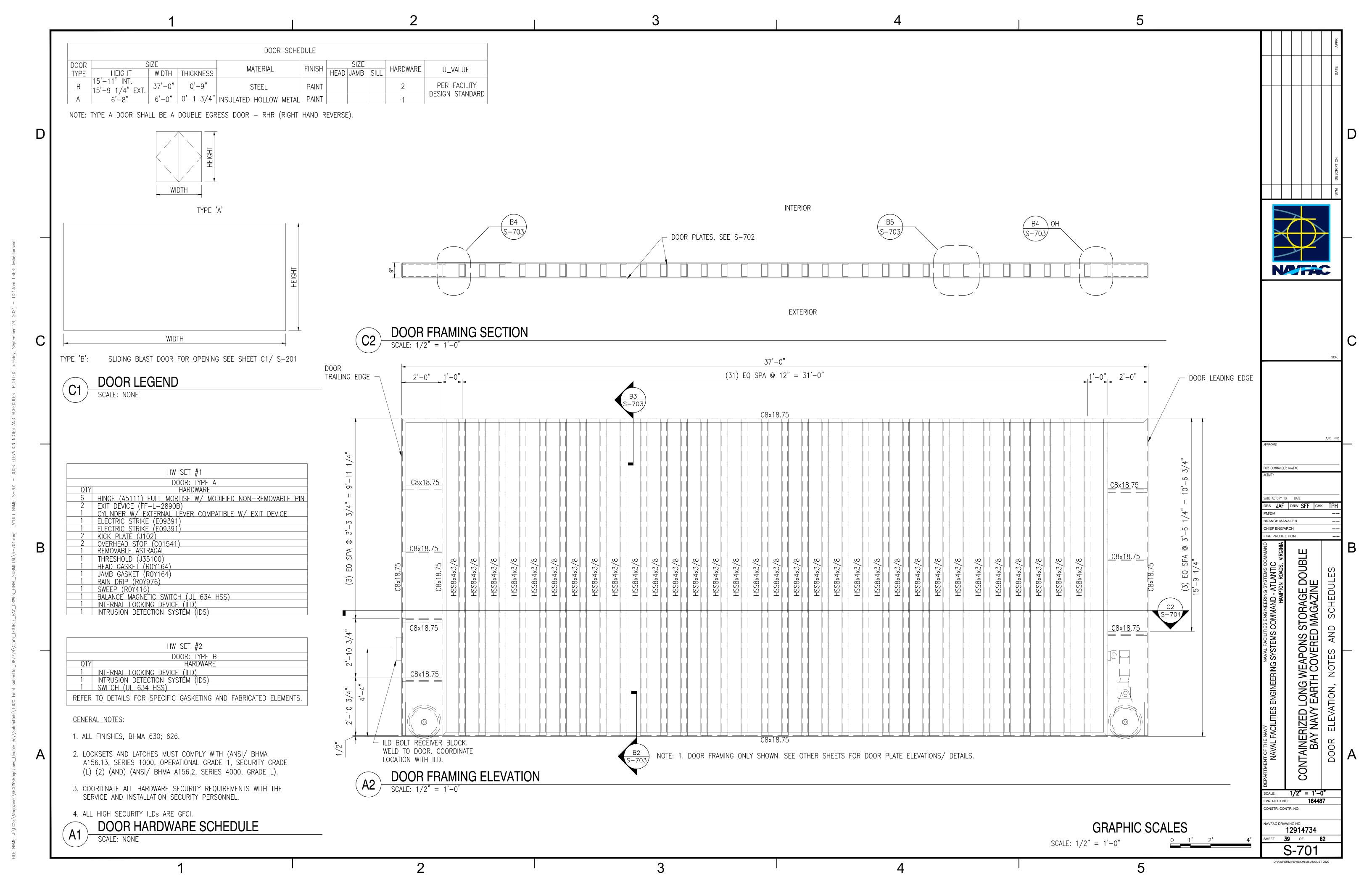


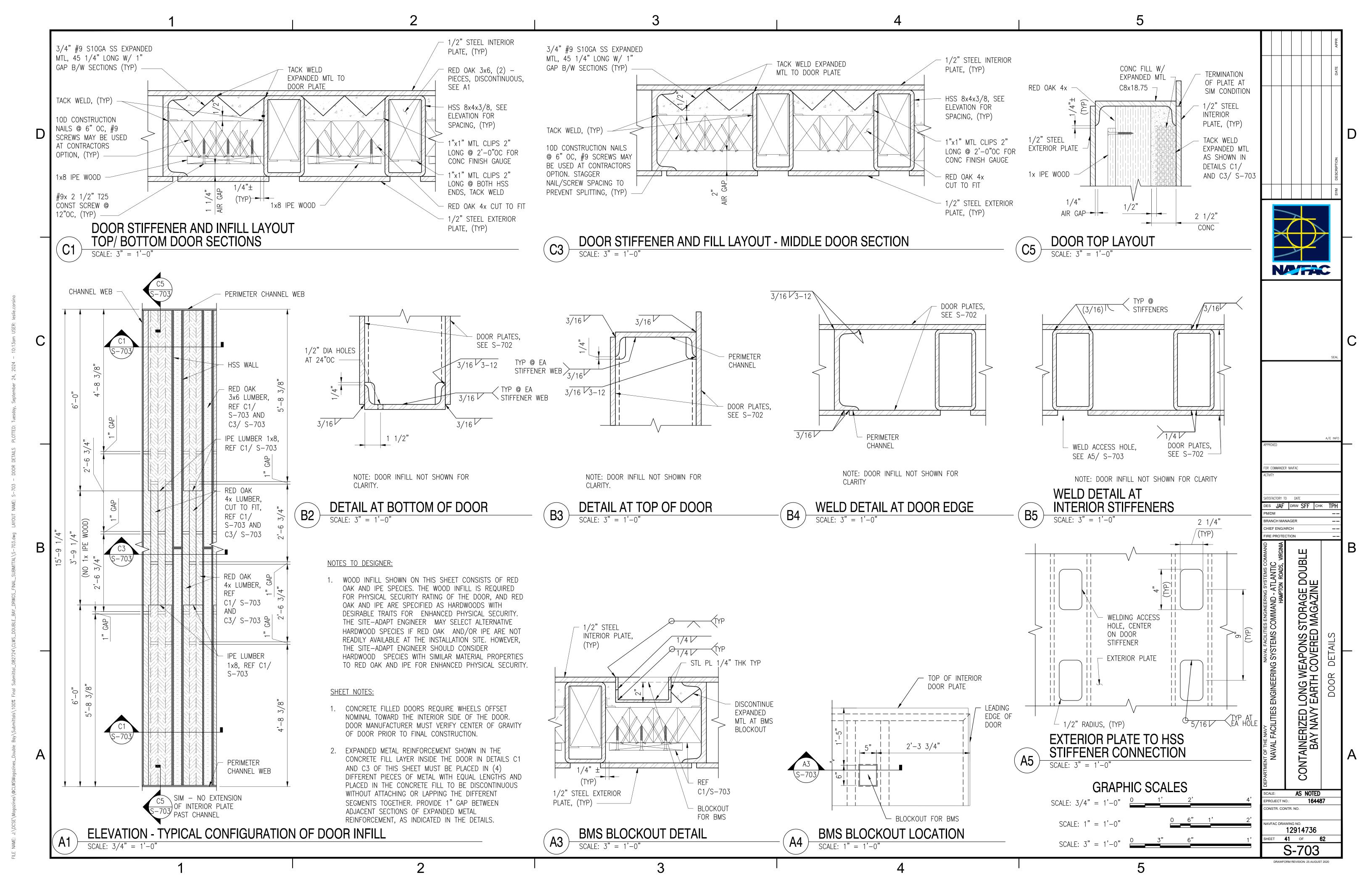


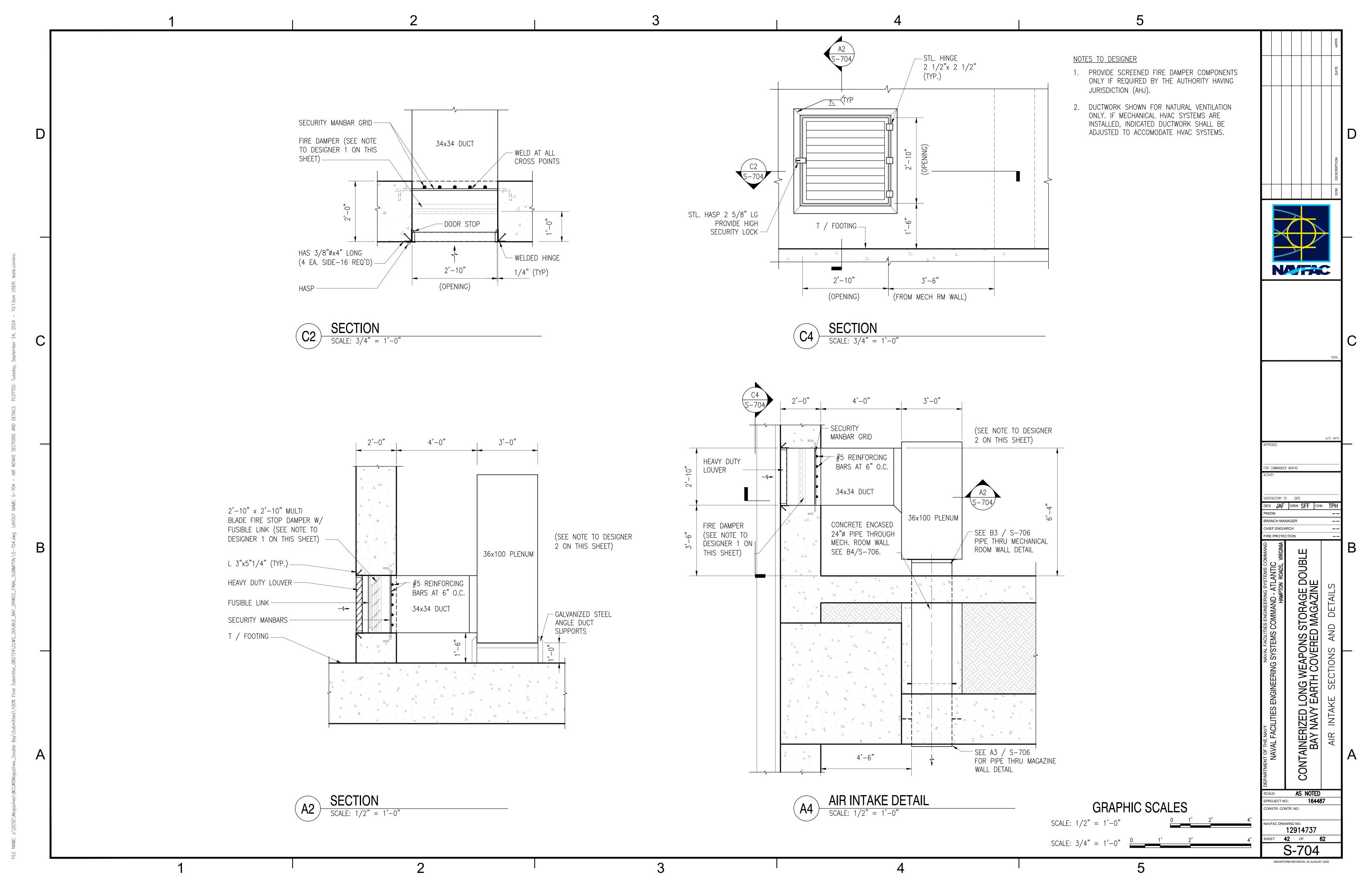


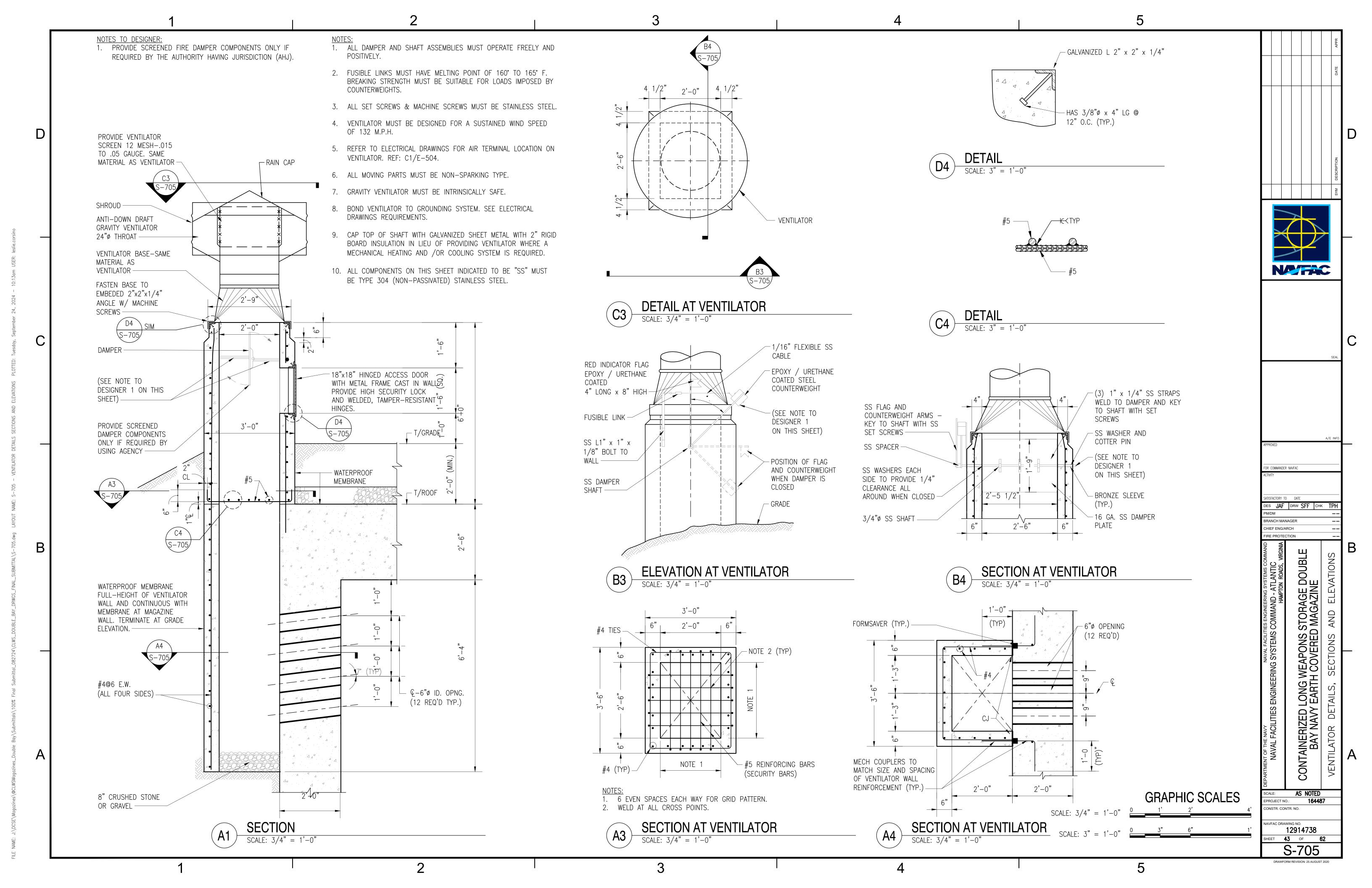


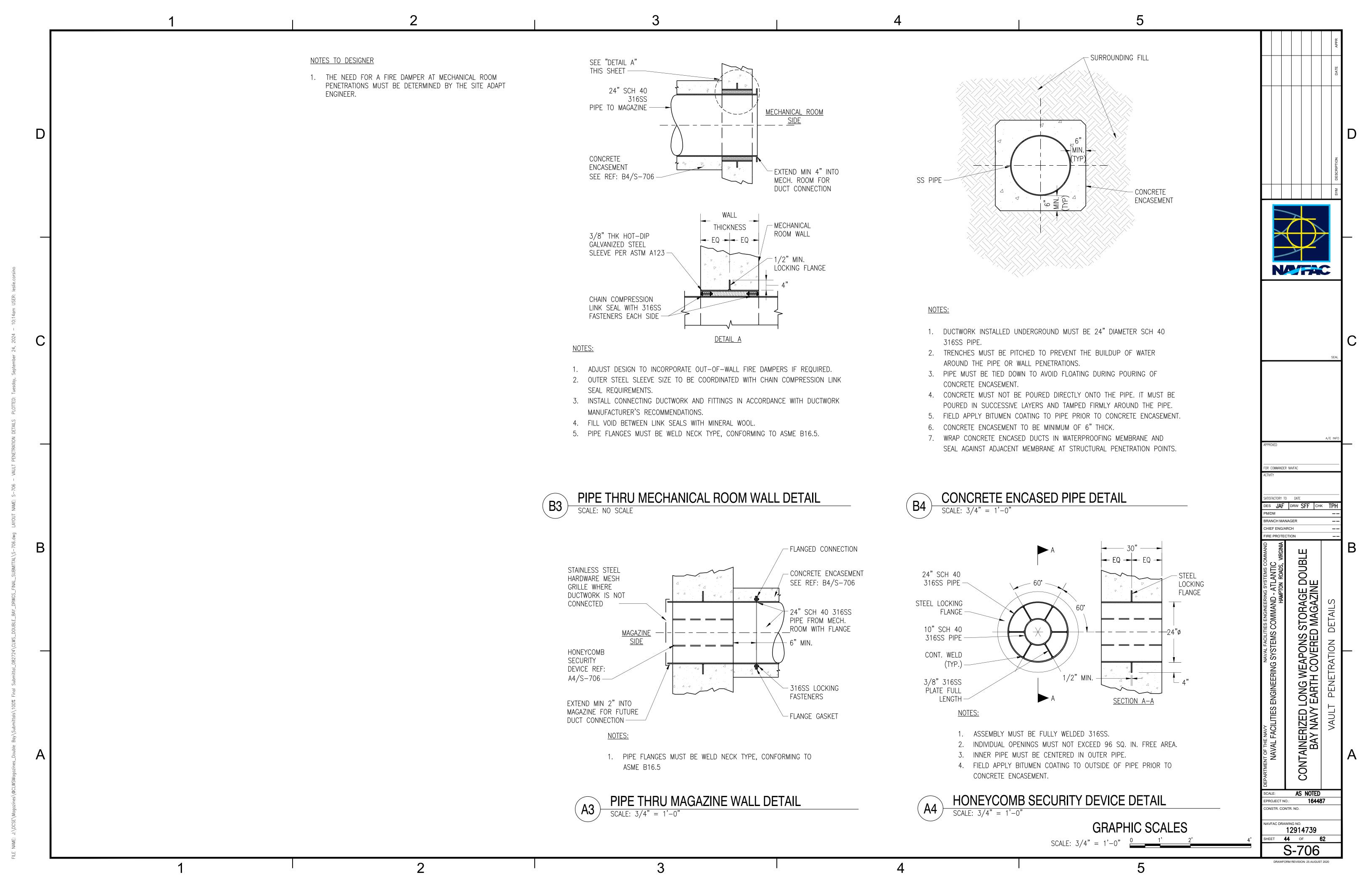


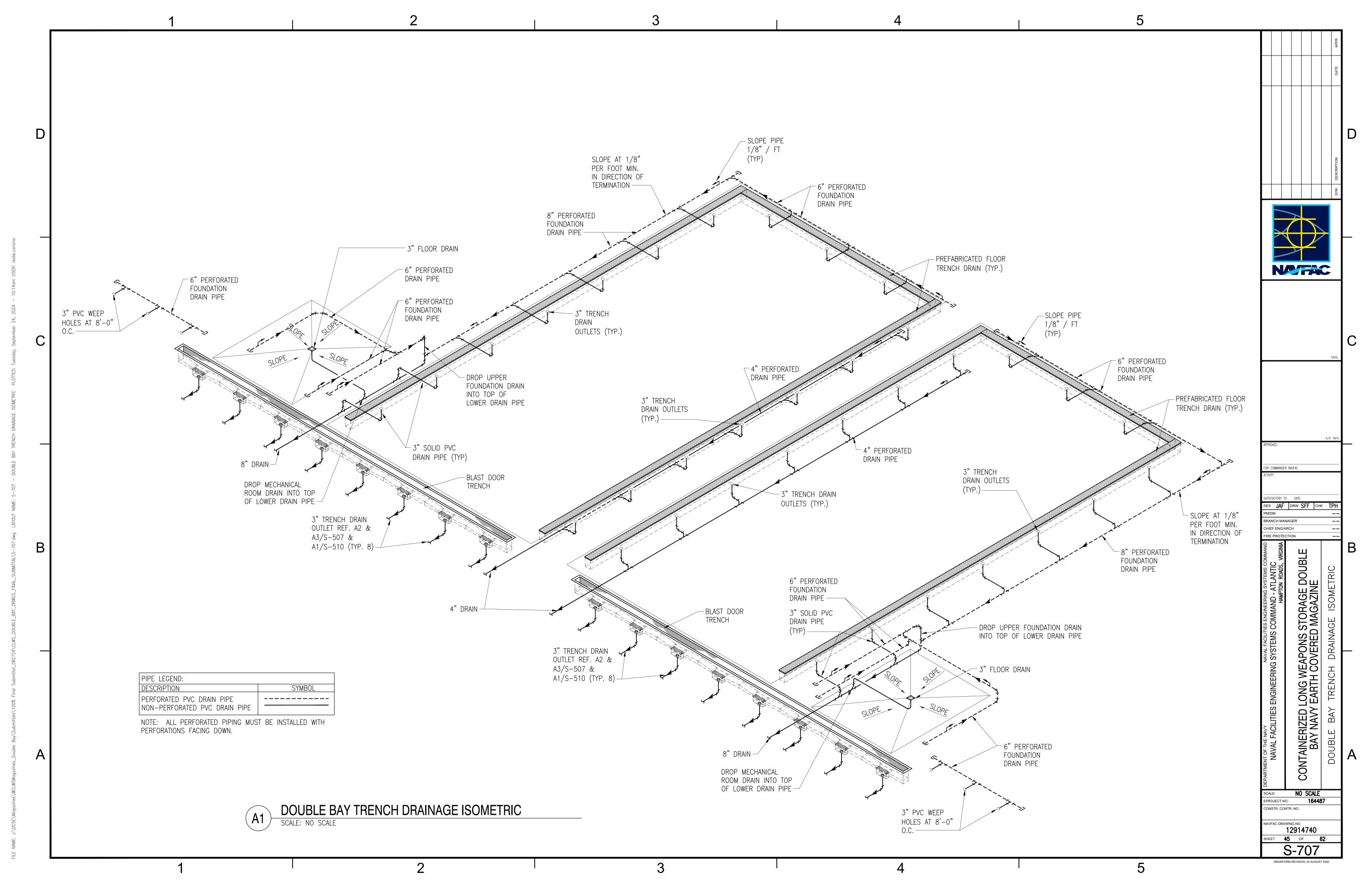


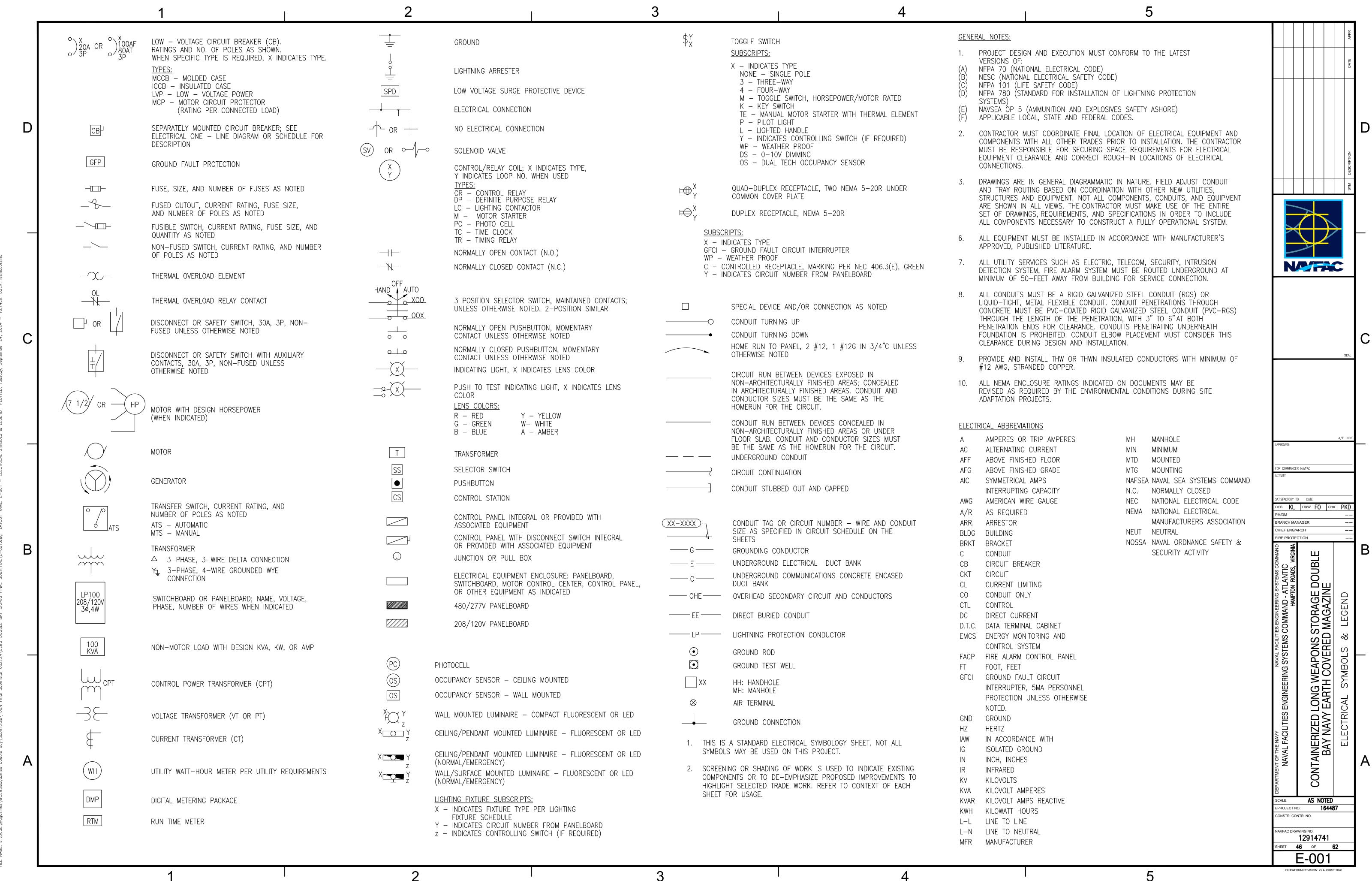


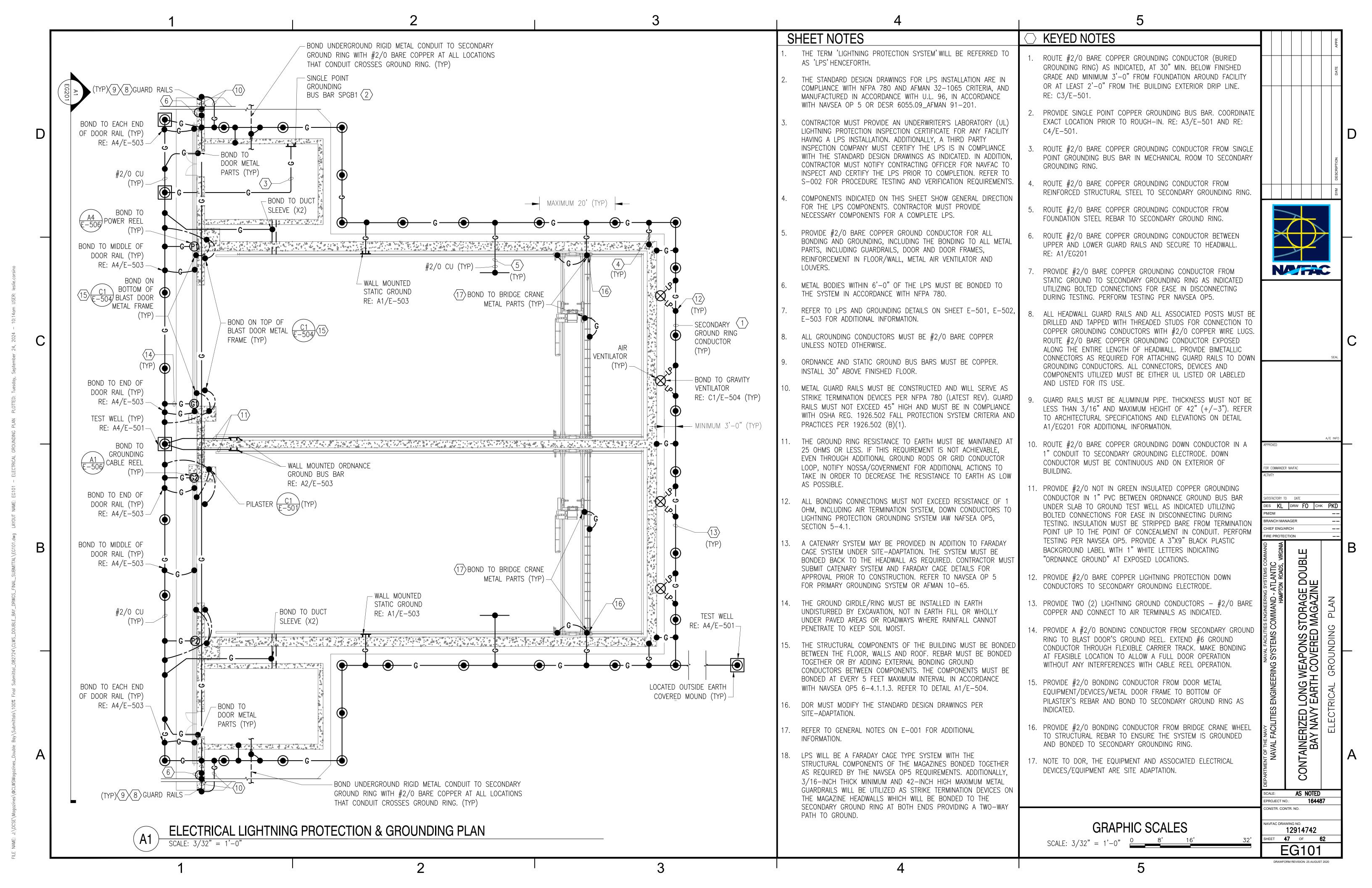


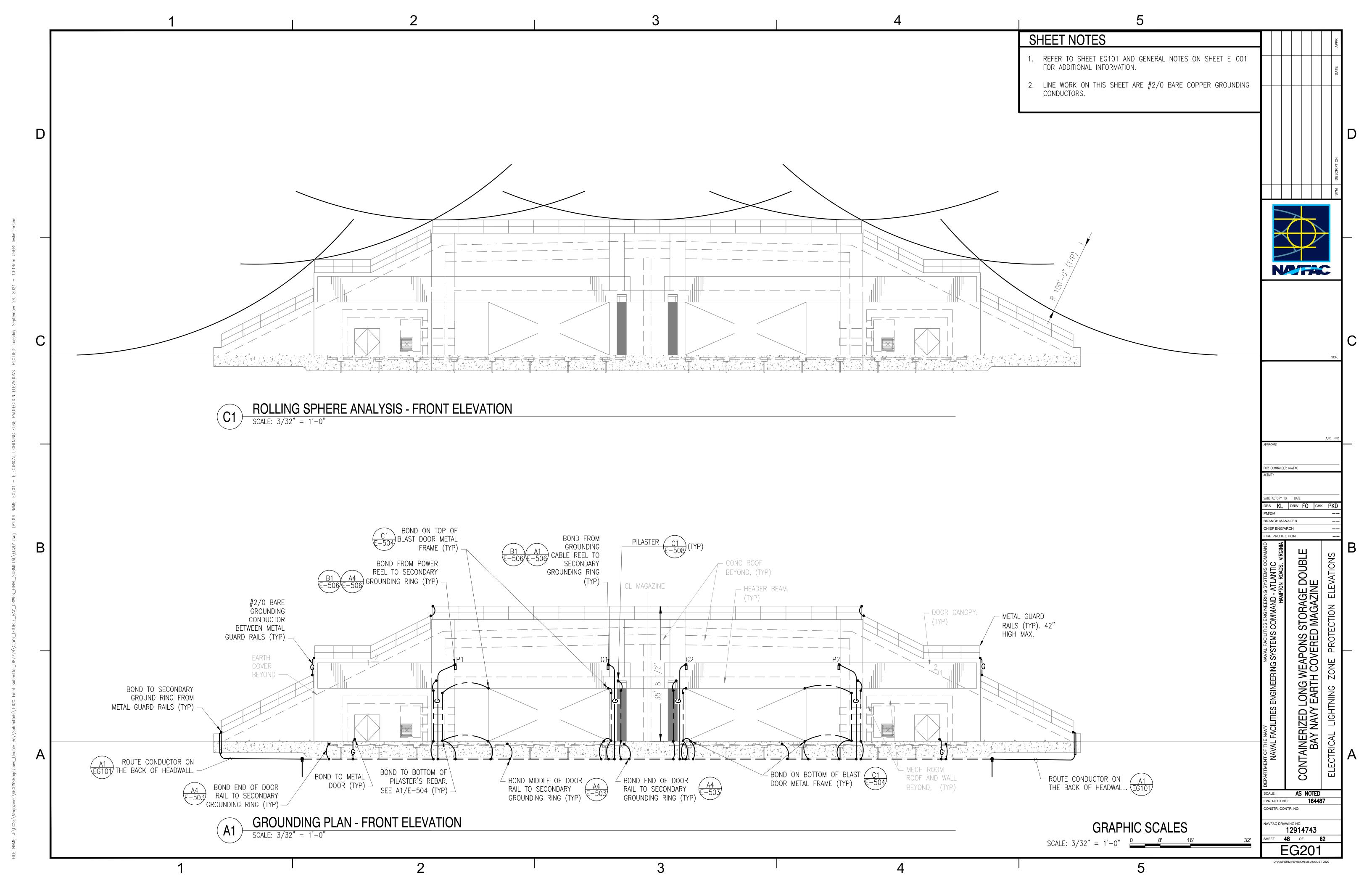


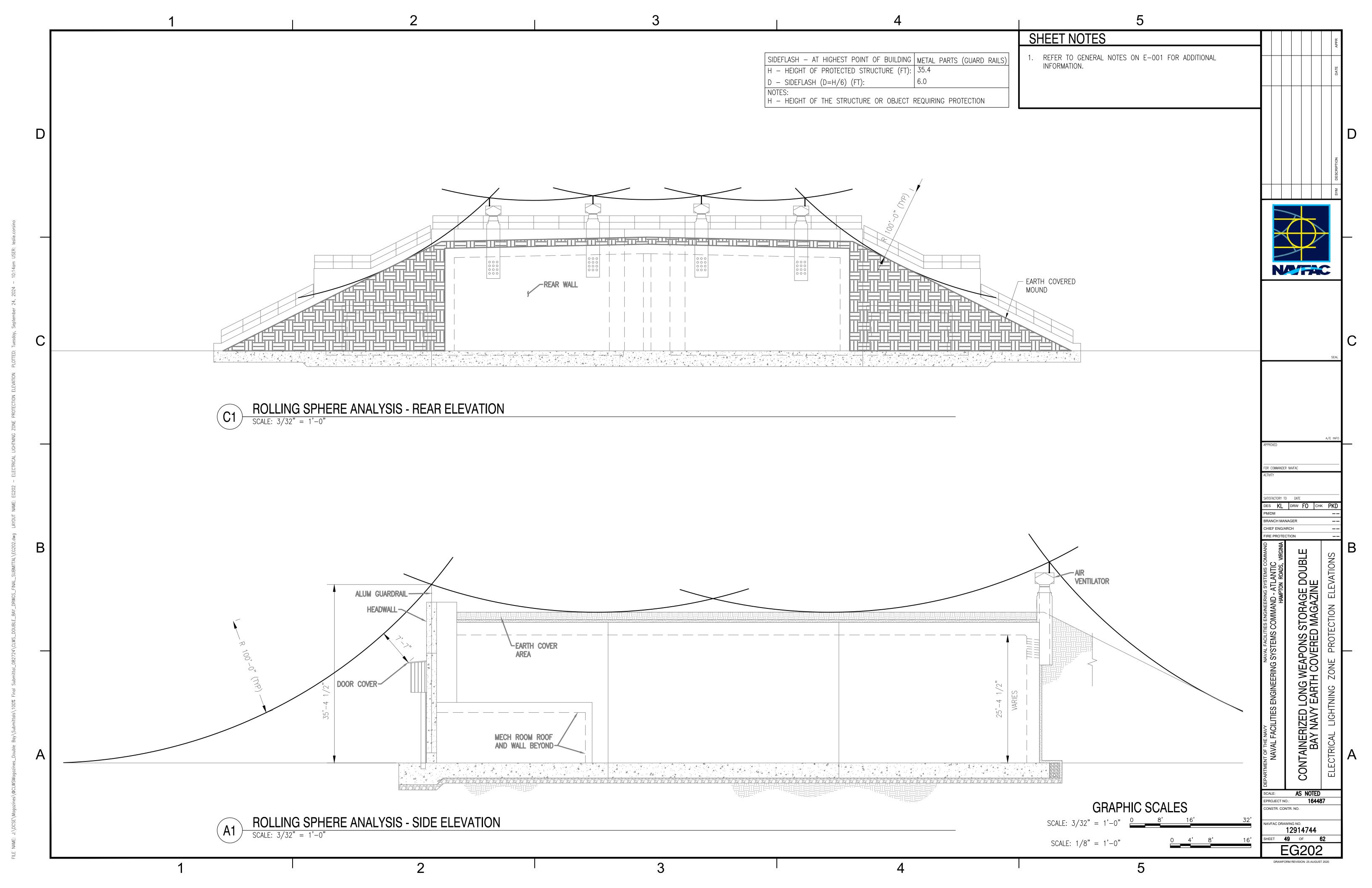


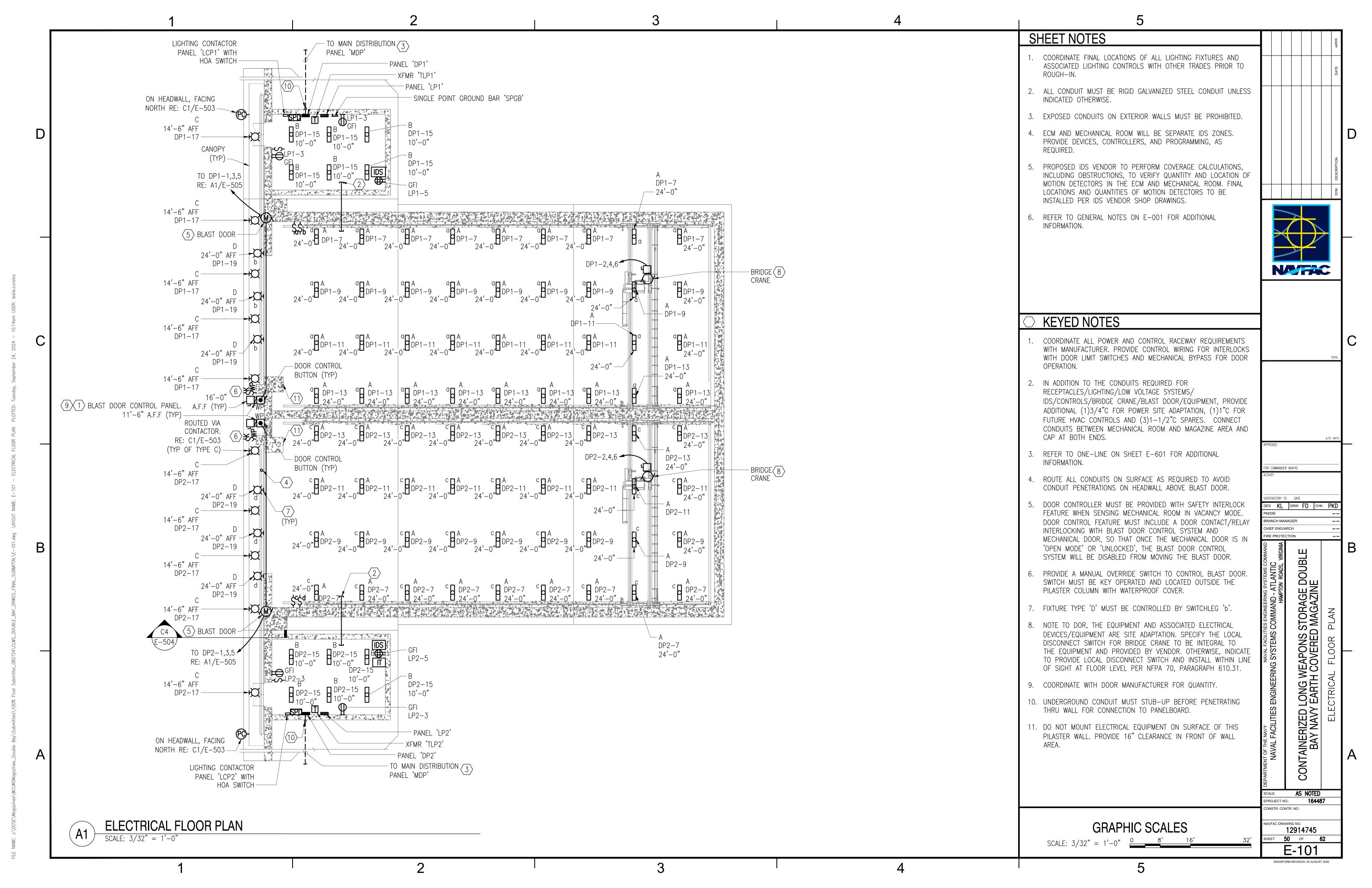


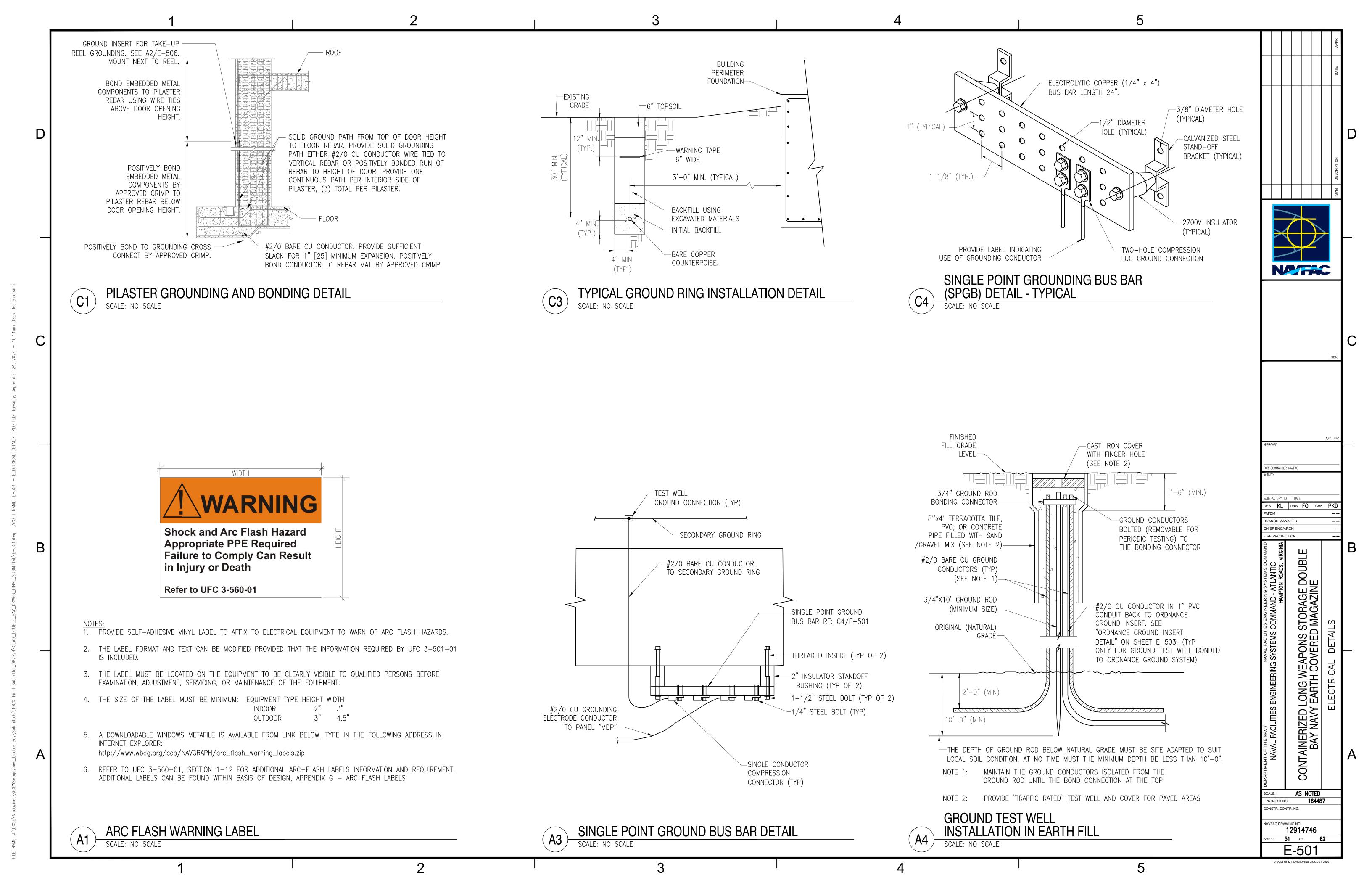


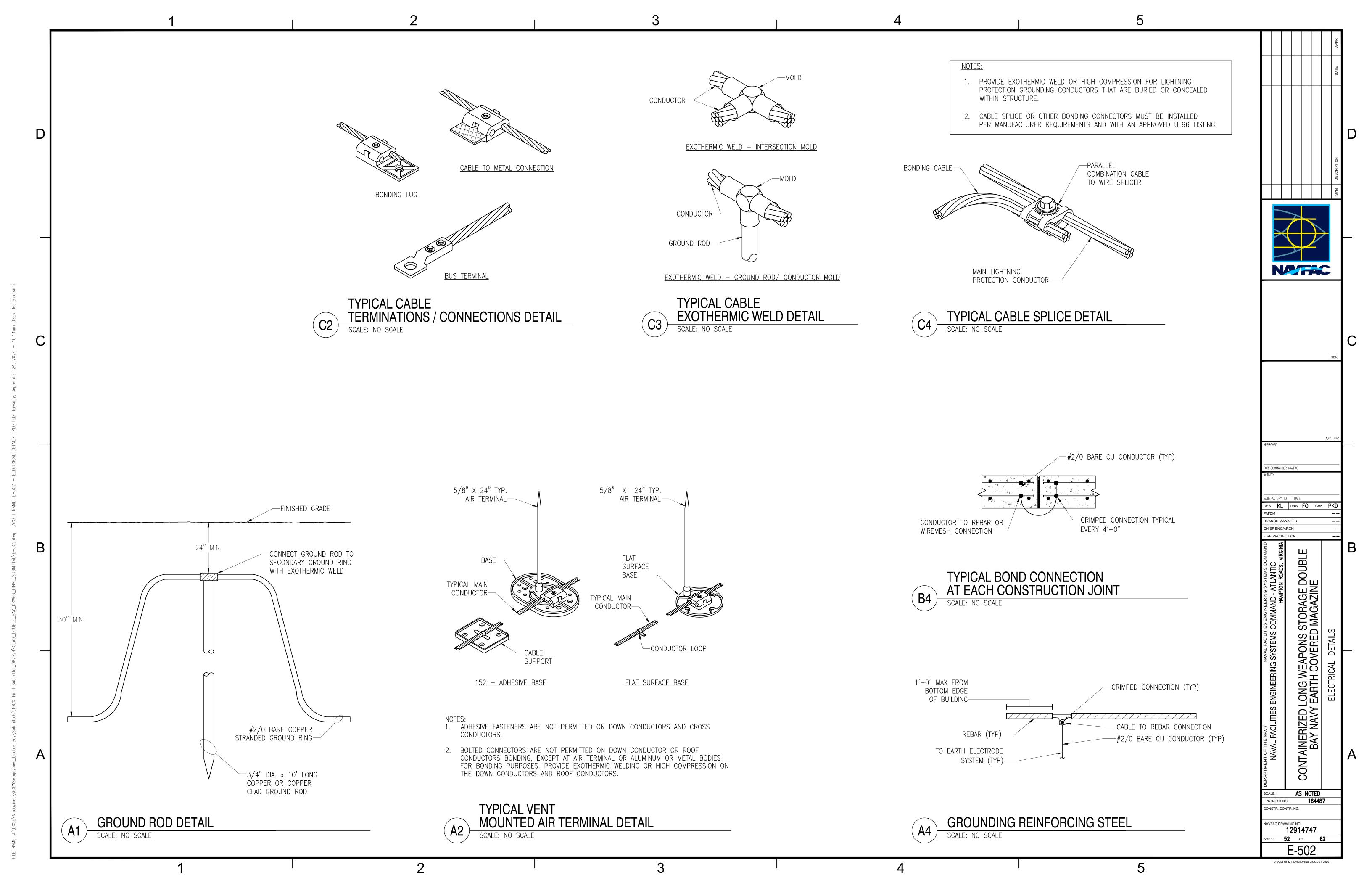


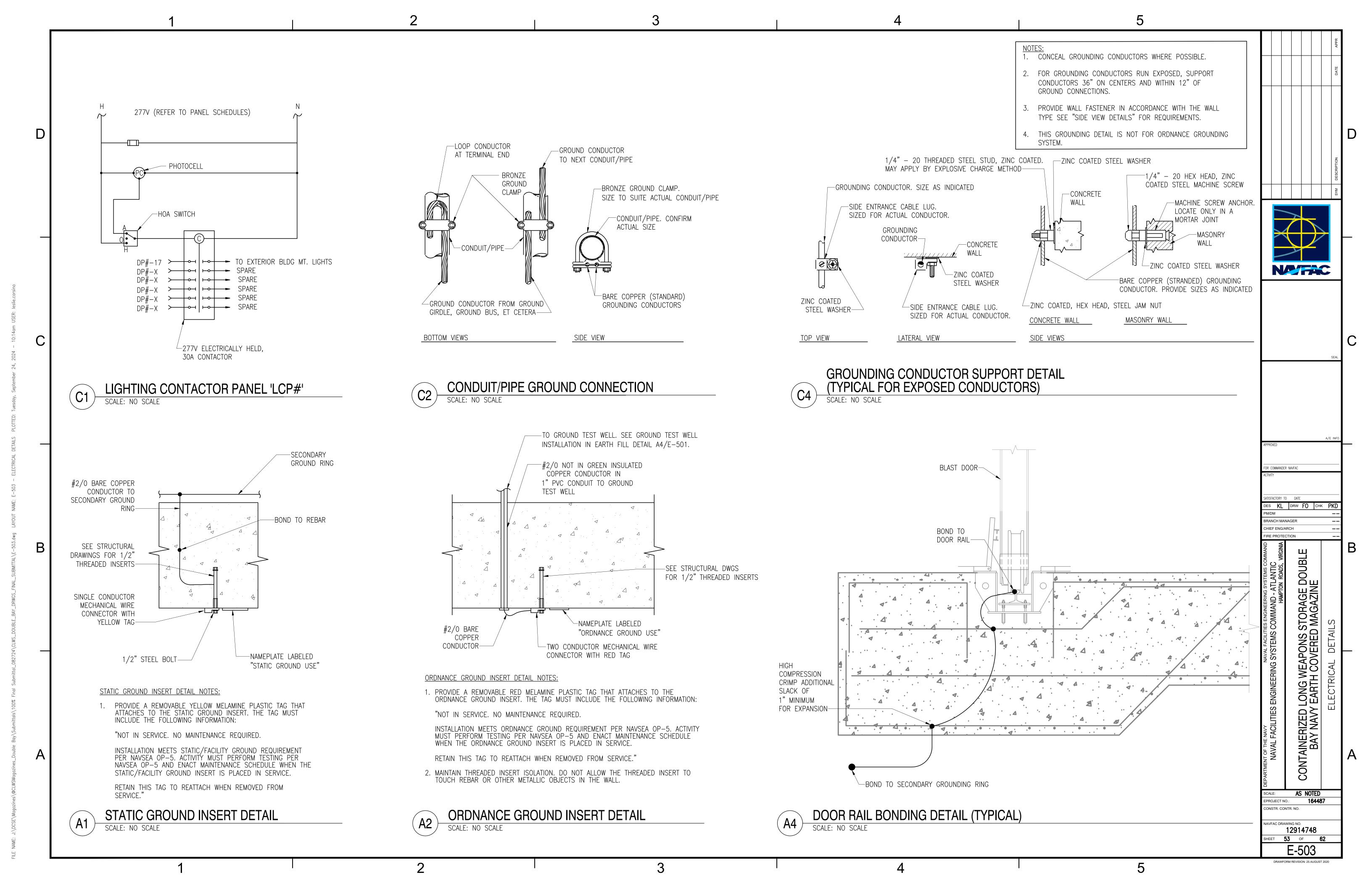


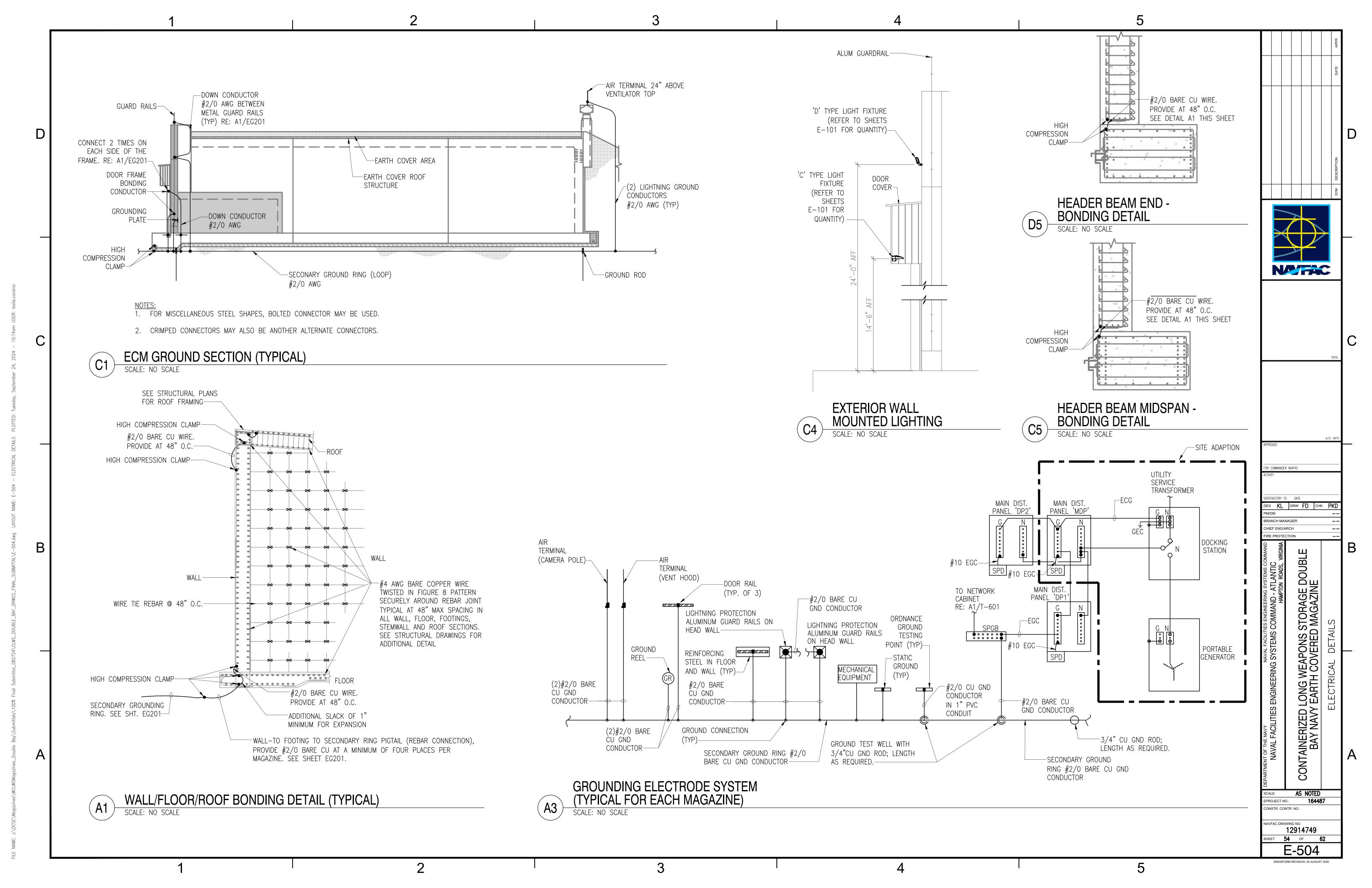


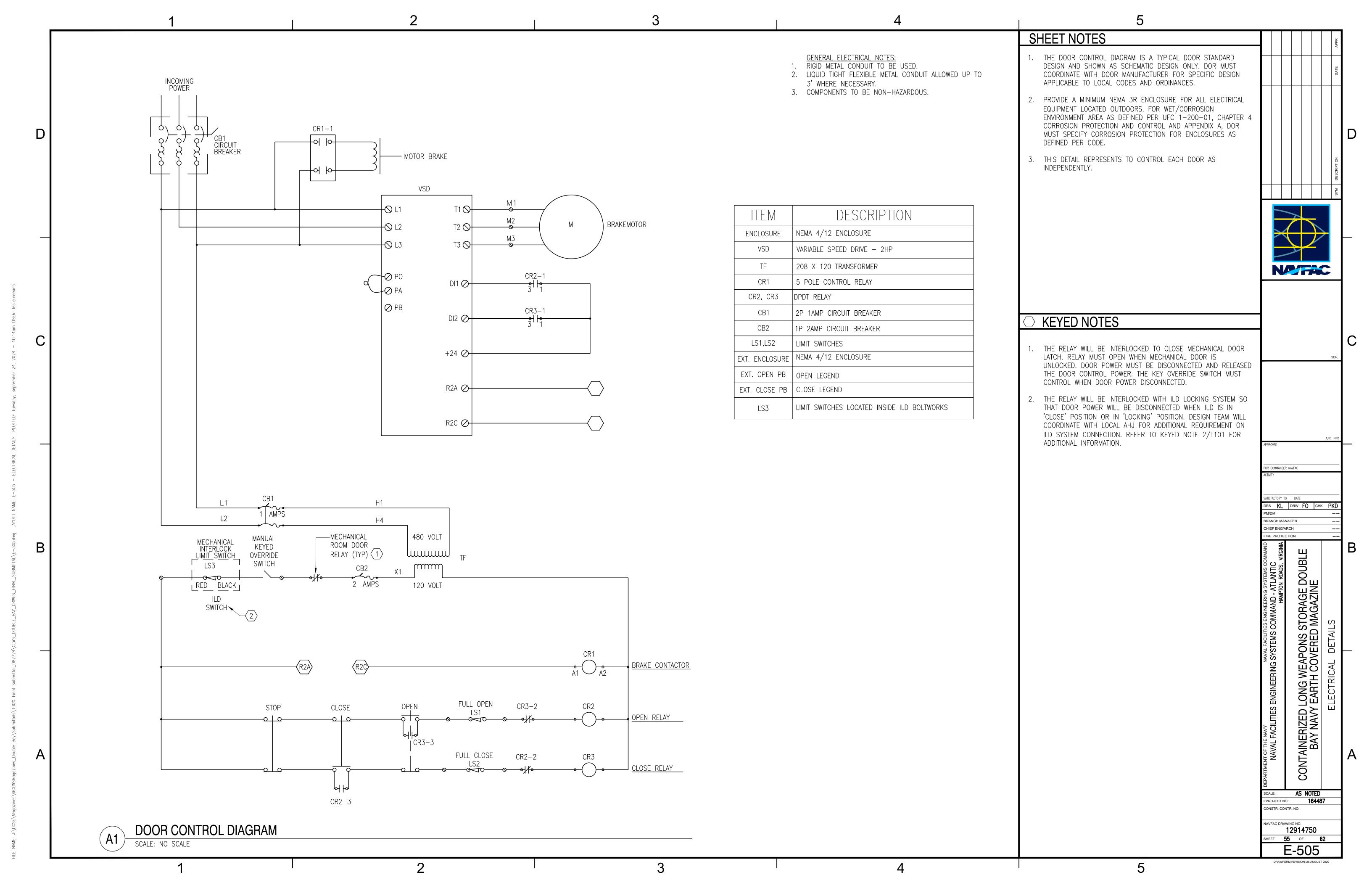


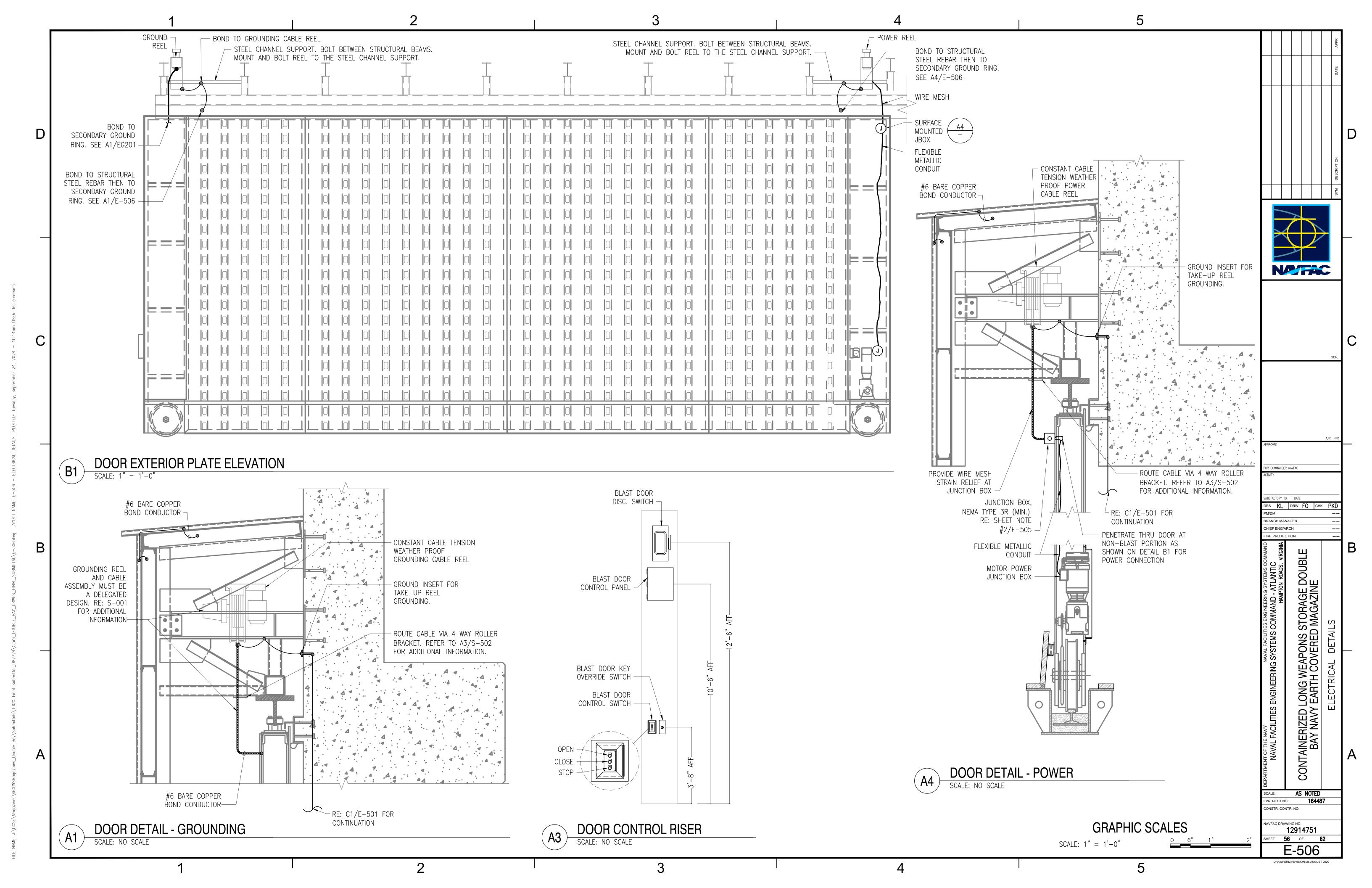


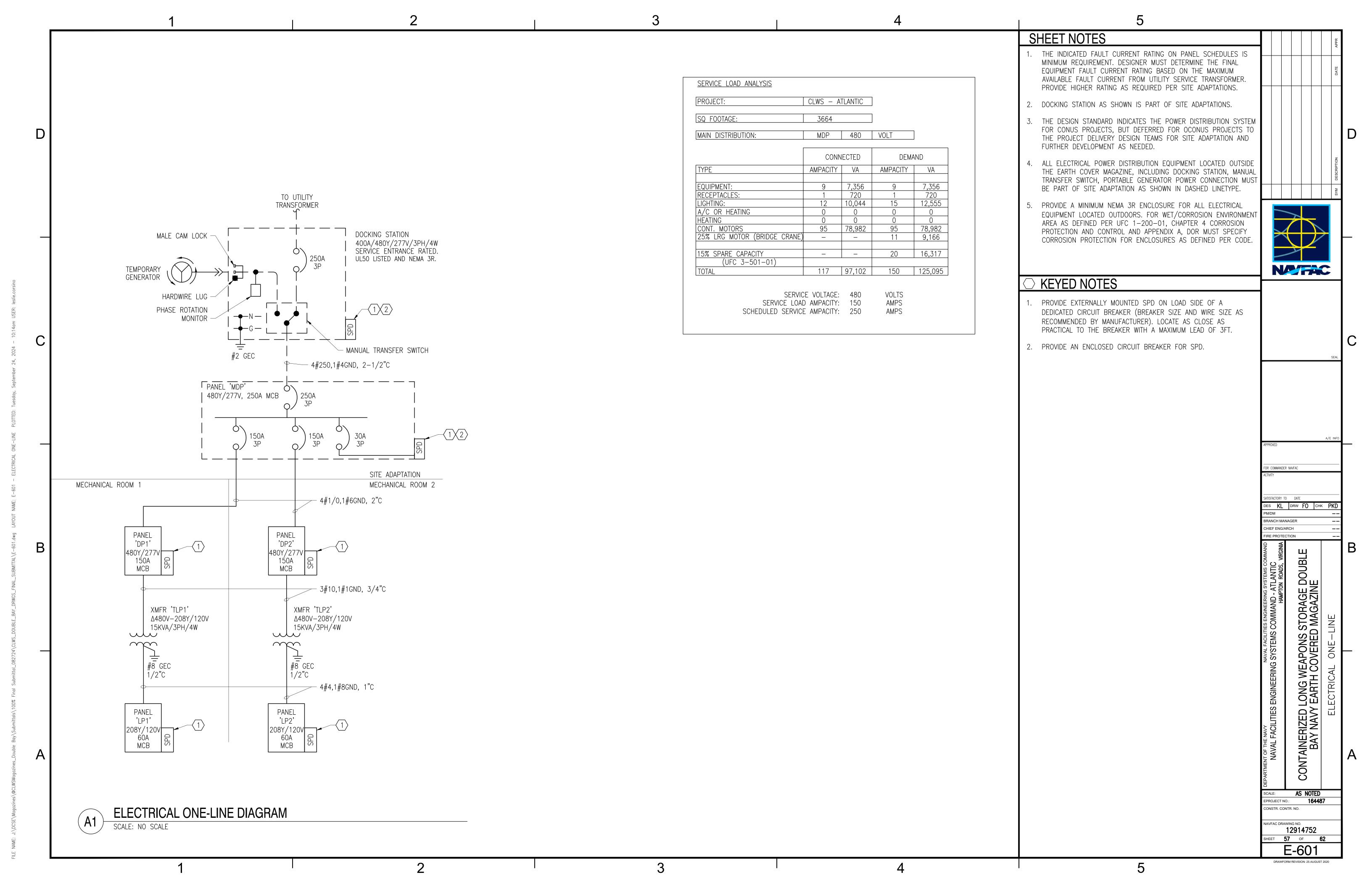












	LIGHTING FIXTURE SCHEDULE							
MARK	DESCRIPTION	MOUNTING TYPE/HEIGHT (RE: E-101)	LAMP TYPE	INPUT VA	COLOR TEMPERATURE	CRI	VOLTAGE	LUMINAIRE PLATE NUMBER
А	LED FROSTED POLYCARBONATE ENCLOSURE 15000LM	STEM	LED	116 VA	3500 K	80	MVOLT	NL-11
В	LED FROSTED POLYCARBONATE ENCLOSURE 6000LM	SURFACE	LED	50 VA	3500 K	80	MVOLT	NL-11
С	LED WALL FIXTURE TWO-PIECE DIE-CAST ALUMINUM HOUSING 7000LM	SURFACE	LED	40 VA	3000 K	70	MVOLT	XL-17
D	LED FLOOD LIGHT DIE-CAST ALUMINUM HOUSING 12000LM	WALL	LED	102 VA	3000 K	70	MVOLT	XL-21



| | LUMINAIRE REQUIREMENT:

- 1. HOUSING FIBERGLASS OR FIBERGLASS—REINFORCED POLYESTER OUTER HOUSING, WITH ALUMINUM COMPONENT TRAY AND HEAT SINK. OPTIONAL LENGTHS OF 4FT OR 8FT.
- 2. LENS IMPACT—RESISTANT ACRYLIC OR OPTIONAL POLYCARBONATE, WITH CONTINUOUS CLOSED—CELL POLYURETHANE GASKET, SECURED WITH STAINLESS STEEL OR POLYCARBONATE LATCHES.
- 3. LIGHT SOURCE SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4—STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 100 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
- 4. DRIVER REPLACEABLE, INTEGRAL, HIGH—EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120—277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON—OFF CONTROL, STEP—DIMMABLE OR FULLY DIMMABLE AS INDICATED.
- 5. CERTIFICATION UL 1598, WET LOCATION (IP65, IP66, IP67), DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK—UP.
- 6. MOUNTING SURFACE-MOUNTED OR SUSPENDED FROM CEILING.
- 7. OPTIONS EMERGENCY BACK-UP.
- 8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED ENCLOSED AND GASKETED

REVISED: APRIL 2016 LIGHTING PLATE: NL-11



LUMINAIRE REQUIREMENTS

- 1. HOUSING DIE—CAST OR EXTRUDED ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM. HEAT SINK MUST BE INCORPORATED DIRECTLY INTO HOUSING OR DRIVER COMPARTMENT TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
- 2. FINISH MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH MUST PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. STANDARD FINISH IS DARK BRONZE, WITH OTHER CUSTOM COLORS AVAILABLE.
- 3. POWER SUPPLY/LED DRIVER CLASS 1 DRIVER MUST OPERATE AT 120/277
 VOLTS, 50/60 HZ, WITH OTHER VOLTAGES OPTIONAL; POWER FACTOR GREATER
 THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY MUST
 BE 60 LM/W AT MAXIMUM 600mA OPERATING CURRENT.
- 4. LED OPTICAL ASSEMBLY PRECISION MOLDED ACRYLIC LENS PROVIDED FOR MULTIPLE HIGH—POWERED LEDS PRODUCING NEMA TYPE III DISTRIBUTION OR AS OTHERWISE INDICATED. BUG UPLIGHT RATING OF UO, WITH GLARE RATING AS DETERMINED BY LIGHTING ZONE INSTALLED. MINIMUM COLOR RENDERING INDEX (CRI) MUST BE 70 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000—4500 DEGREES K.
- 5. CERTIFICATION UL AND/OR ETL LISTED FOR DAMP OR WET LOCATIONS AS INDICATED, AND ROHS COMPLIANT.
- 6. OPTIONS VARIOUS LUMEN OUTPUT RATING AS INDICATED, AND 0-10 VOLT DIMMING DRIVER.
- 7. OTHER THE ABOVE SKETCH IS A NON—PROPRIETY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER. MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

LED WALL PACK

REVISED: MARCH 2013 LUMINAIRE PLATE: XL-17



LUMINAIRE REQUIREMENTS

- 1. HOUSING DIE CAST ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM.

 HEAT SINK MUST BE INCORPORATED DIRECTLY INTO HOUSING TO ENSURE

 MAXIMUM HEAT TRANSFER AND DISSIPATION
- 2. FINISH MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH MUST PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. DARK BRONZE FINISH COLOR IS STANDARD.
- 3. POWER SUPPLY/LED DRIVER CLASS 1 ELECTRONIC DRIVER MUST OPERATE AT 120/277 VOLTS, 50/60 HZ, WITH OTHER VOLTAGES OPTIONAL. POWER FACTOR MUST BE GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY MUST BE 60 LM/W AT MAXIMUM 600mA OPERATING CURRENT.
- 4. LED OPTICAL ASSEMBLY MULTI-LED ARRAY OPTIMIZED FOR SPECIFIC DISTRIBUTION PATTERN AS INDICATED. MINIMUM COLOR RENDERING INDEX (CRI) OF 70 FOR CORRELEATED COLOR TEMPERATURE OF 4000-4500 DEGREES K.
- 5. LENS TEMPERED GLASS IN DIE-CAST ALUMINUM FRAME WITH SILICONE GASKET.
- 6. SURGE PROTECTION 6 KV MINIMUM, COMPLIANT WITH ANSI C62.41.2.
- 7. CERTIFICATION UL AND/OR ETL LISTED FOR WET LOCATIONS AND 2G VIBRATION STANDARD PER ANSI C136.32. OPTICAL ASSEMBLY MUST BE MINIMUM IP65 PER ANSI/IEC 60529.
- 8. OPTIONS FINISH COLOR, OUTPUT DISTRIBUTION TYPE AND TRUNNION OR SLIPFITTER TYPE MOUNTING.
- 9. OTHER THE ABOVE SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

LED FLOOD LUMINAIRE

REVISED: MARCH 2013 LUMINAIRE PLATE: XL-21

DES KL DRW FO CHK PKD BRANCH MANAGER FIRE PROTECTION CONTAINERIZED LONG WEAPONS STORAGE DOUBLE BAY NAVY EARTH COVERED MAGAZINE AS NOTED 164487 CONSTR. CONTR. NO. NAVFAC DRAWING NO. 12914753 ET **58** OF **62** E-602

2

3

4

5

LOCATION: MECHANICAL ROOM 1 V MOUNTING: SURFACE ENCLOSURE: NEMA 1 SYTLE: NF E BRKR MTG: BOLT-ON (REF: SQUARE D) BREAKERS: 75 DEGREE TERMINALS	PANEL 'DP1' VOLTAGE: 480/277 V KAIC: 14 BUSSING SHALL BE PHASE: 3 P/ 4W CODES: 0=EQPT, 1=RCPT, 2=LTG, 3=A/C, 4=H BUSSING: 150 A S=CONTINUOUS MOTORS, 6=LRGST M MCB: 150 A ACCESSORIES: GROUND BUS, 42 SPACE MLO: A CKT LOAD A B C LOAD CKT CIRCUIT USE	MOUNTING: SURFACE	BUSSING: 150 A 5=CONTI	BUSSING SHALL BE FULLY RATED 1=RCPT, 2=LTG, 3=A/C, 4=HEAT INUOUS MOTORS, 6=LRGST MOTOR, 7=PANEL IS 42 SPACE	
2 20/1	1 942 X 12,221 2 3 942 X 12,221 4 5 942 X 12,221 6 7 1,044 X 913 8 9 1,044 X 913 10 11 1,044 X 913 12 13 1,044 X 913 12 15 300 X - 14 SPARE 15 300 X - 16 SPARE 17 162 X - 18 SPARE 19 204 X - 20 SPARE 21 180 X - 22 SPARE 23 - X - 24 SPARE 25 - X - 28 SPARE 27 - X - 32 SPACE 33 - X	BRKR CODE SPARE CIRCUIT USE	3 942 X 12,221 4 5 942 X 12,221 6 7 1,044 X 913 10 11 1,044 X 913 12 13 1,044 X 913 12 13 1,044 X - 14 15 300 X - 16 17 162 X - 18 19 204 X - 20 21 180 X - 22 23 - X - 24 25 - X - 28 29 - X - 30 31 - X - 32 33 - X - 34 35 - X - 38 39 360 X - 40 41 400 X - 42	CIRCUIT USE R - BRIDGE CRANE (25 TON) (NOTE 1) AIR CURTAIN (5HP) SPARE SPACE SPAC	
VOLTAGE/PHASE, DEMAND LOAD, OVERCURRENT PROTECTION DEVICES A PROVIDED SHOP DRAWINGS/DATA INFORMATION PER SITE ADAPTATION. LOCATION: MECHANICAL ROOM 1 V MOUNTING: SURFACE ENCLOSURE: NEMA 1 SYTLE: NQOD E BRKR MTG: BOLT-ON (REF: SQUARE D) BREAKERS: 75 DEGREE TERMINALS CODE BRKR CIRCUIT USE 0 20/1 IDS SYSTEM PANEL 1 20/1 RECPT - MECH ROOM 0 20/1 SPARE 20/1 SPARE	PANEL 'LP1' VOLTAGE: 120/208 V KAIC: 22 BUSSING SHALL BE PHASE: 3 P/ 4W CODES: 0=EQPT, 1=RCPT, 2=LTG, 3=A/C, 4=HBUSSING: 100 A 5=CONTINUOUS MOTORS, 6=LRGST MMCB: 60 A ACCESSORIES: GROUND BUS, 42 SPACE MLO: A CKT LOAD A B C LOAD CKT CIRCUIT USE 1 360 X 180 2 BLAST DOOR CONTROL PANEL 3 360 X - 4 SPARE 5 400 X - 8 SPARE 7 - X - 8 SPARE 9 - X - 10 SPARE	RESERVE KVA: 11.94 DESIGN KVA: 71.61 NOTE: *1. THE BRIDGE CRANE IS NOT A STANDARD FEATURE OF THE VOLTAGE/PHASE, DEMAND LOAD, OVERCURRENT PROTECTION DI PROVIDED SHOP DRAWINGS/DATA INFORMATION PER SITE ADAP LOCATION: MECHANICAL ROOM 1 MOUNTING: SURFACE ENCLOSURE: NEMA 1 SYTLE: NQOD BRKR MTG: BOLT-ON (REF: SQUARE D) BREAKERS: 75 DEGREE TERMINALS CODE BRKR CODE 20/1 0 20/1 IDS SYSTEM PANEL 1 20/1 RECPT - MECH ROOM 0 20/1 SPARE 20/1 SPARE	BUSSING: 100 A 5=CONTI) MCB: 60 A ACCESSORIES: GROUND BU	TY: 11 AMPS ITY: 83 AMPS O.R. MUST UPDATE AND/OR VENDOR'S DDES. BUSSING SHALL BE FULLY RATED 1=RCPT, 2=LTG, 3=A/C, 4=HEAT INUOUS MOTORS, 6=LRGST MOTOR, 7=PANEL JS, 42 SPACE CIRCUIT USE AST DOOR CONTROL PANEL SPARE SPARE 20/1	APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES KL DRW FO CHK PK PM/DM - BRANCH MANAGER - CHIEF ENG/ARCH - FIRE PROTECTION - FIRE PROTECTION -
20/1 SPARE SPACE SPACE	11 - X - 12 SPARE 13 - X - 14 SPARE 15 - X - 16 SPARE 17 - X - 18 SPARE 19 - X - 20 SPARE 21 - X - 22 SPARE 23 - X - 24 SPARE 25 - X - 26 SPARE 27 - X - 28 SPARE 29 - X - 30 SPARE 31 - X - 32 SPACE 33 - X - 34 SPACE 35 - X - 36 SPACE 37 - X - 36 SPACE 37 - X -	20/1 20/1 SPARE SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE SPARE 20/1 SPARE SPARE SPACE SP	0 0 540 0 0 360 0 0 400 0 0 1300 PANEL DEMAND AMPACITY	SPARE 20/1 SPACE 20/1 SPACE 20/1 SPACE 30/3 PANEL VA PHASE AMP 540 5 360 3 400 3 1300 400 Y: 4 AMPS TY: 1	CONTAINERIZED LONG WEAPONS STORAGE D BAY NAVY EARTH COVERED MAGAZINE

