

US Army Corps of Engineers® Mobile District

DEFINITIVE SUBMITTAL FOR REVIEW ONLY

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FUSELAGE TRAINER DEFINITIVE DESIGN (PROJECT NO. AMC140001-FUT) BASE X, CONUS

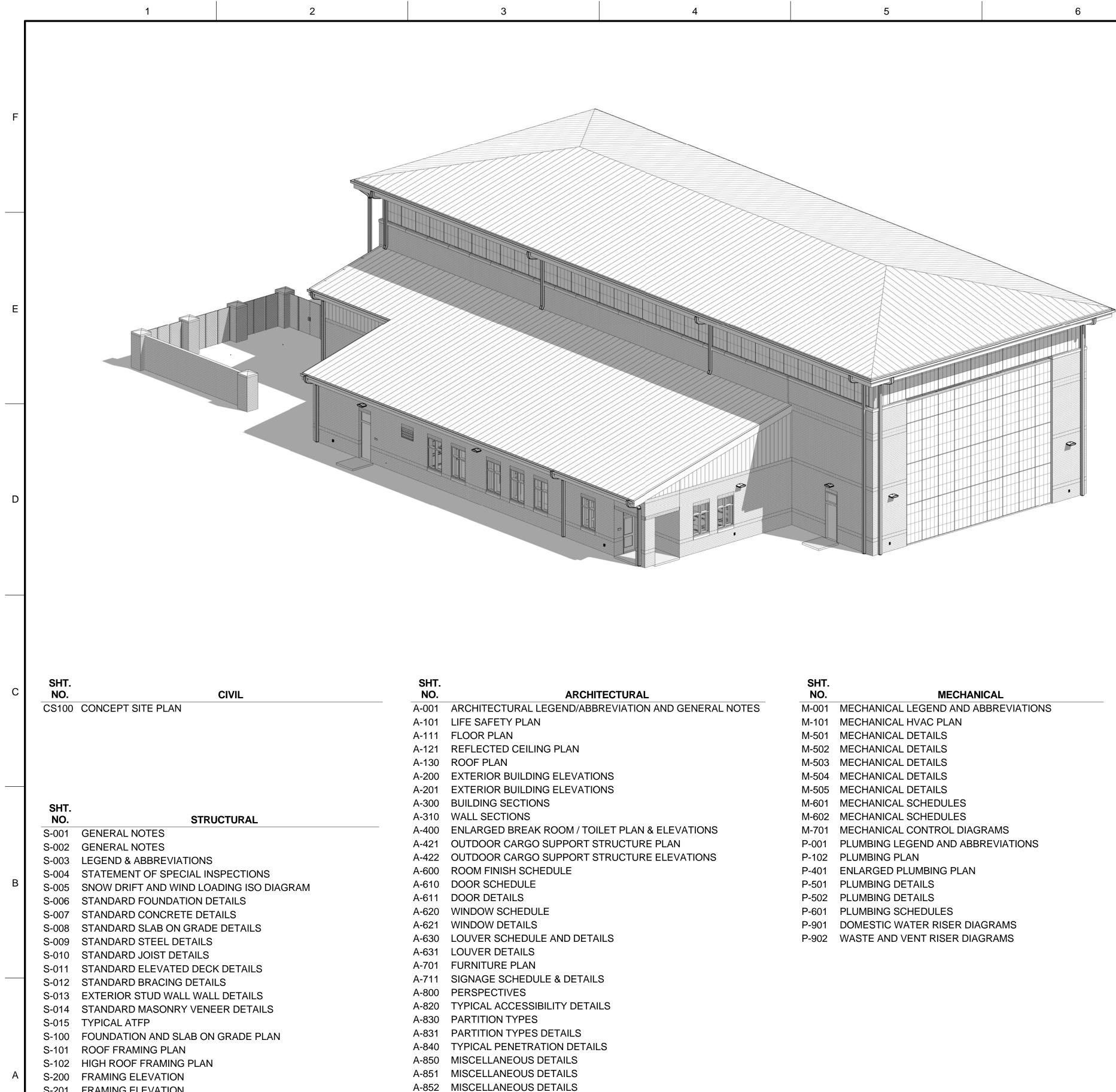
COUNTY STATE

SOLICITATION NO. (TO BE DETERMINED) CADD CODE: MB13EP14

APRIL 2013

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S-202 FRAMING ELEVATION S-300 FOUNDATION DETAILS

S-201 FRAMING ELEVATION

- S-400 OUTDOOR CARGO SUPPORT FOUNDATION AND SLAB PLAN
- S-500 FRAMING DETAILS

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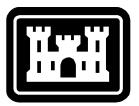
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NO.	FIRE PROTECTIO
FA-001	FIRE ALARM SYMBOLS, LEGEND AND ABI
FA-101	FIRE ALARM AND MASS NOTIFICATION PI
FA-501	FIRE ALARM DETAILS
FA-601	FIRE ALARM RISER
FA-602	FIRE ALARM MATRIX
FP-001	FIRE SUPPRESSION RISERS, NOTES AND
FP-101	FIRE SUPPRESSION PLAN

KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA

4/17/2013



US Army Corps of Engineers.

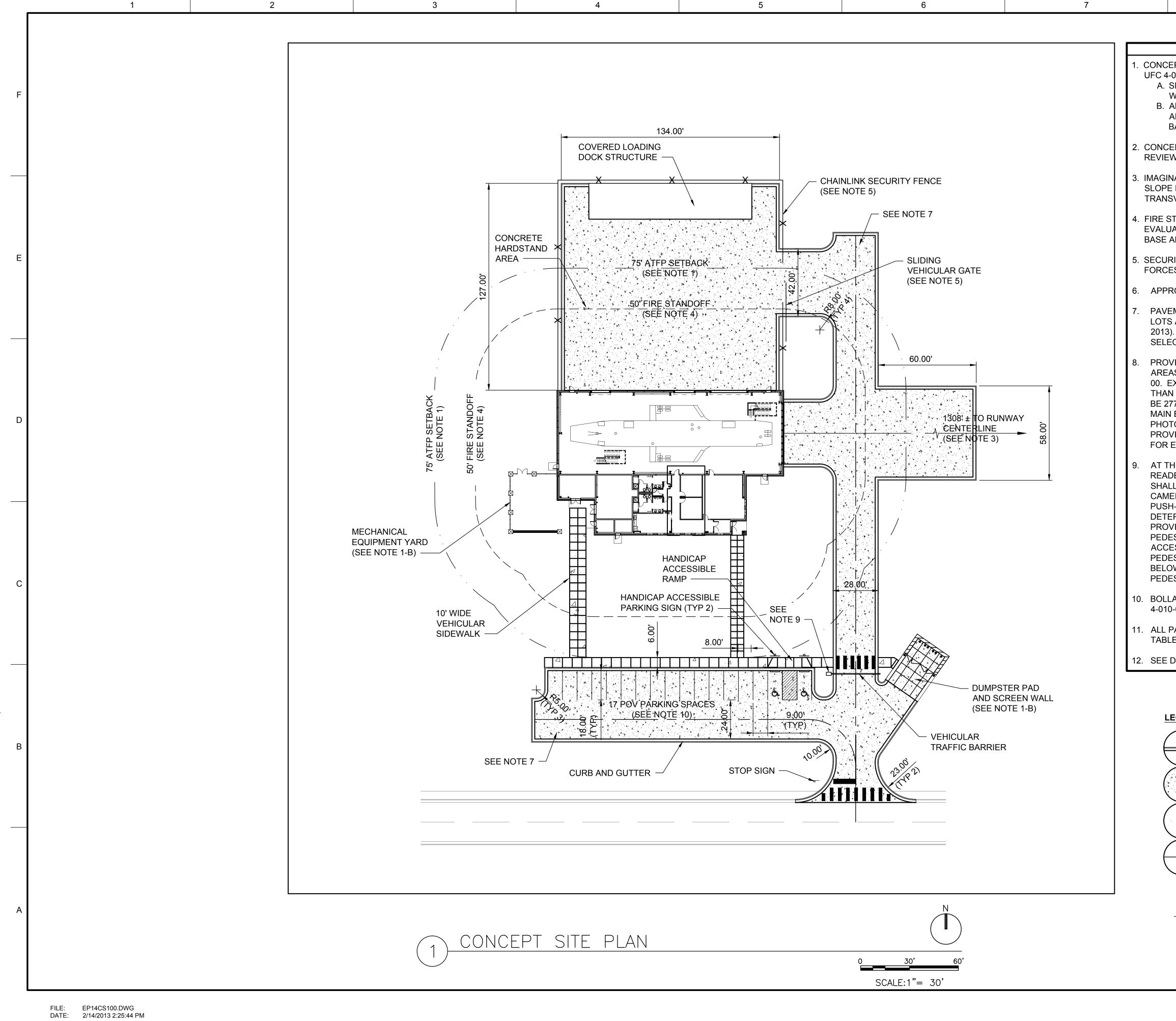


BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400

ON BREVIATIONS PLAN

ID SYMBOLS

NO.	ELECTRICAL
E-001	ELECTRICAL SYMBOLS LEGEND - 1 OF 2
E-002	ELECTRICAL SYMBOLS LEGEND - 2 OF 2
E-101	ELECTRICAL POWER PLAN FIRST FLOOR
E-111	ELECTRICAL LIGHTING PLAN FIRST FLOOR
E-421	CARGO SUPPORT STRUC. POWER & LIGHTING
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-611	LIGHT FIXTURE SCHEDULE
E-701	ELECTRICAL ONE-LINE DIAGRAM
T-001	TELECOMMUNICATIONS LEGEND
T-101	TELECOMMUNICATIONS PLAN FIRST FLOOR
T-501	TELECOMMUNICATIONS DETAILS
T-502	TELECOMMUNICATIONS DETAILS
T-701	TELECOMMUNICATIONS SCHEDULE/RISER



	II
	US ARMY CORPS OF ENGINEERS ®
EPTUAL SITE PLAN BASED UPON ATFP REQUIREMENTS DESCRIBED IN -010-01 (FEB 2012). SITE ATFP SETBACK IS BASED UPON A INHABITED GATHERING FACILITY WITH METAL STUDS/BRICK VENEER NON LOAD BEARING WALLS. ALL SCREEN WALLS OR FENCING IN MECHANICAL EQUIPMENT YARDS AND TRASH ENCLOSURES SHALL BE REVIEWED AND COORDINATED WITH BASE STANDARDS UPON SITE SELECTION.	
EPTUAL DOES NOT INCLUDE STORM WATER DETENTION. THIS SHALL BE WED AND COORDINATED UPON SITE SELECTION.	
NARY SURFACE DISTANCE BASED ON A 44' TALL BUILDING HEIGHT AT 7:1 E RATIO. 1000' FROM CLASS B RUNWAY CENTERLINE PER UFC 3-260-01, SVERSE SECTION: FIGURE 3-15 (NOV 2008).	
STANDOFF OF EXISTING BUILDING ADJACENT TO THE SITE MUST BE JATED AS PART OF THE SITE SELECTION PER UFC 3-600-01 (SEPT 2006). AHJ SHALL DETERMINE FINAL FIRE SETBACKS AND CLEARANCES.	ESCRIPTION
RITY FENCE LIMITS AND REQUIREMENTS SHALL BE BY BASE SECURITY ES.	DE
ROXIMATE 2.75 ACRE SITE FOOTPRINT.	
EMENT SHOWN AS PORTLAND CEMENT CONCRETE FOR ALL PARKING S AND ROADWAYS FOR HEAT ISLAND EFFECTS PER UFC 1-200-02 (MARCH b). FINAL PAVEMENT TYPE SHALL BE COORDINATED UPON SITE ECTION.	
VIDE EXTERIOR LED LIGHTING FOR ALL FACILITY PARKING AND VEHICLE AS IN ACCORDANCE WITH UFC 3-530-01, AFETL 12-15 AND SECTION 26 56 EXTERIOR LIGHTING POWER DENSITIES SHALL BE AT LEAST 30% LESS N REQUIRED BY ASHRAE 90.1 (PER EPACT 2005). EXTERIOR LIGHTS SHALL 77 VOLTS AND POWERED FROM A PANELBOARD INSIDE THE FIRST FLOOR N ELECTRICAL ROOM. EXTERIOR LIGHTING CIRCUITS SHALL BE TOCELL CONTROLLED VIA THE BUILDING RELAY CONTROL PANEL. VIDE 2-INCH MINIMUM PVC CONDUIT BURIED 18-INCHES BELOW GRADE EXTERIOR LIGHTING CIRCUITS.	DATE: 4/17/2013 SCALE: AS INDICATED DRAWING CODE: EP14CS100 EP14CS100 Date Signed HITECT DATE
THE TRAFFIC ARM, PROVIDE A PEDESTAL FOR INTERCOM AND CARD DER ON DRIVER SIDE OF ROADWAY. PEDESTAL INTERCOM STATION LL INCLUDE PUSH-TO-TALK BUTTON WITH MICROPHONE/SPEAKER AND IERA AT PEDESTAL. REMOTE INTERCOM STATION SHALL INCLUDE H-TO-TALK BUTTON WITH MICROPHONE/SPEAKER AND CAMERA DISPLAY. ERMINE REMOTE INTERCOM STATION LOCATION WITH BASE SECURITY. VIDE A CONDUIT FROM THE REMOTE INTERCOM STATION TO THE ESTAL INTERCOM STATION. PROVIDE A SEPARATE CONDUIT FROM THE ESS CONTROL PANEL LOCATION IN THE MAIN ELECTRICAL ROOM TO THE ESTAL. CONDUITS SHALL BE 1 1/2-INCH PVC CONDUIT BURIED 18-INCHES OW GRADE. ROUTE ALL CONDUITS TO COMMON HANDHOLE NEAR	DESIGNED BY: A. MASHEK A. MASHEK DRAWN BY: C. FRANZEN C. FRANZEN C. FRANZEN CHECKED BY: R. BARUTH R. BARUTH BSG PROJECT ENGINEER/ARCH
ESTAL. CONFIRM REQUIREMENTS WITH BASE SECURITY. LARDS AND BARRIERS SHALL MEET REQUIREMENTS DESCRIBED IN UFC 0-01 (FEB 2012).	ENGINEER DISTRICT S OF ENGINEERS ILE, ALABAMA BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 641 (816) 333-9400
PARKING SHALL MEET REQUIREMENTS DESCRIBED IN MIL-HDBK-1190, LE 3.1 (SEPT 1987).	 C ENGINEER DISTR S OF ENGINEERS BILE, ALABAMA BURNS & MCDOI 9400 WARD PAR (816) 333-9400
DESIGN ANALYSIS FOR ADDITIONAL DETAILS.	U.S. ARMY ENGI CORPS OF F MOBILE, / MOBILE, / BUF S40 S01 MOILEI (816
	U.S. <u>Burns</u> <u>McDon</u>
EGEND:	
CURB AND GUTTER	AN
CONCRETE PARKING LOT AND ROADWAY	AGE TRAINER E DESIGN CONUS SITE PLAN
CONCRETE SIDEWALK	tea fuselag Definitive i BASE X, CC CEPT S
CHAINLINK SECURITY FENCE	KC-46A FUSEL DEFINITIV BASE X, CONCEPT
REMOVABLE BOLLARD	
TRAFFIC SIGN	
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DEFINITIVE DESIGN

 GENERAL: A. THESE NOTES, AND OTHER DRAWING NOTES CONTAINED WITHIN, ARE PROVIDED TO MEET SPECIFIC REQUIREMENTS AND TO SUPPLEMENT THE CONTRACT SPECIFICATIONS. THESE NOTES NEITHER REPLACE NOR OVERRIDE THE PROVISIONS AND REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. A. SOURCE: ESTIMATED. B. SITE PREPARATION 1. EXCAVATION, FILL, AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS, DIVISION 31. 2. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER WHEN LOOSE 	
 B. Contributions & L. Condent and Status a	 JONIS LONIS

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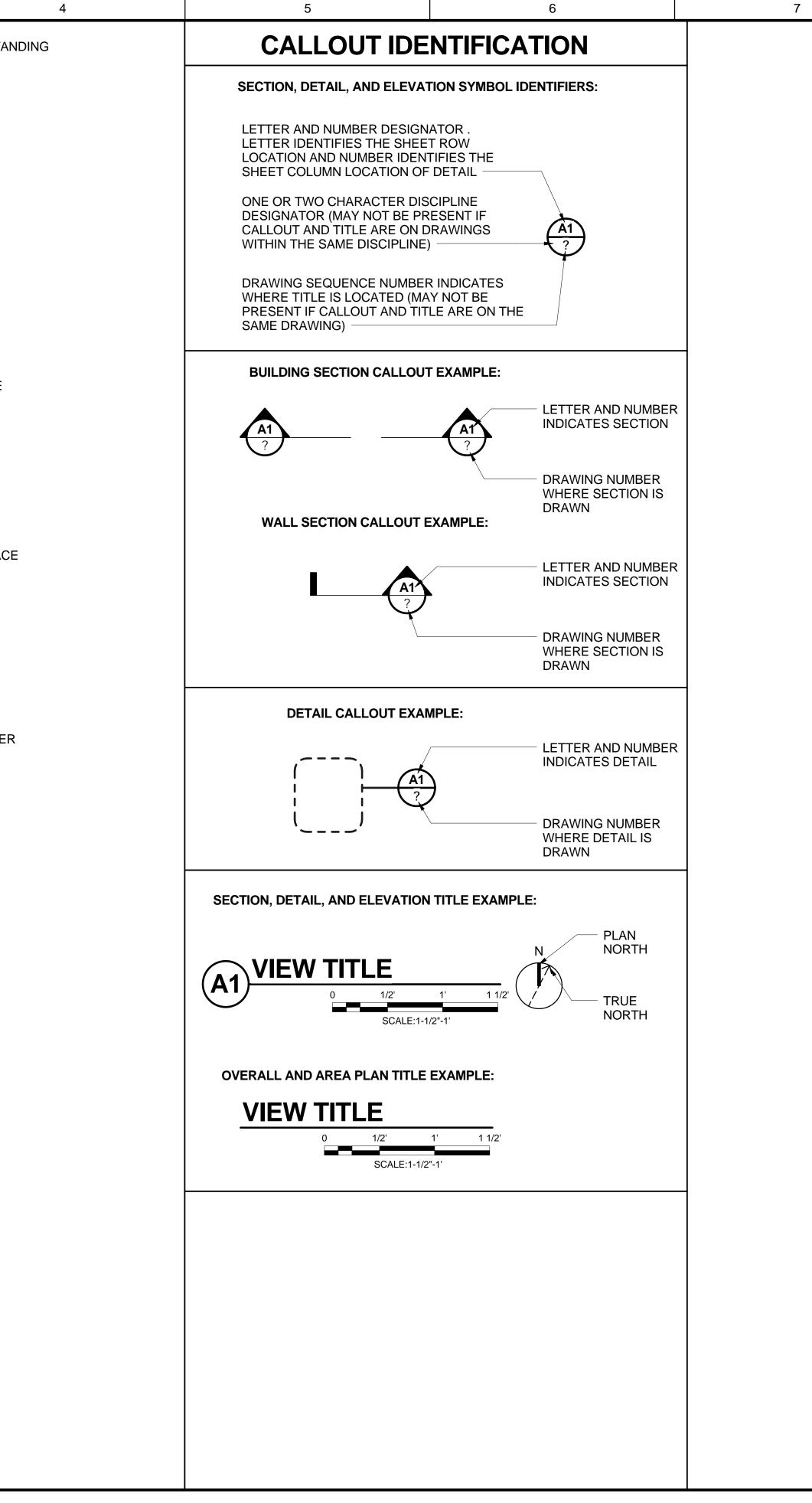
1 2 3	4 5 6	7 8 9	
 STRUCTURAL AND MISCELLANEOUS STEEL SECTIONS OF 200 AND 05 90 13 STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FARICATED AND ERRCTED IN ACCORRECTION AND ALL REAR STEEL CONSTRUCTION MANUAL, STRUCTURAL MOUTH AND ALL A	 F. STEEL DECK. SECTIONS 65 30 00 STEEL DECK. ATTACHMENTS, AND ACCESSORIES SHALL BE DESIGNED, FABRICATED, MADING TALLED IN ACCORRONACE WITH SOI MANUALS AND ASI COLD-FORMED STEEL DRIVERS () ROCE PECK. R. (172, 2) CAGE, WIDE DEEP RIB WITH Py = 33 KG1 Intin = 212 INVAFT, Smin = 243 INVAFT, CALVANZED CAO DIAPHRADA SHAR CF 350 PL. ALL TO DECK AND DECONT TE-KNEWTS SHALL BE CARGEST NO. THE WIND DIAPHRADA SHAR CF 350 PL. ALL STEEL DECK SHALL CROSS A MINIMUM OF TWO SPANS. MINIMUM LENGTH OF END LARS AND BEAR CF 350 PL. ALL STEEL DECK SHALL CROSS A MINIMUM OF TWO SPANS. MINIMUM LENGTH OF END LARS AND BEAR CF 350 PL. ALL STEEL DECK SHALL CROSS A MINIMUM OF TWO SPANS. MINIMUM LENGTH OF END LARS AND BEAR CF 350 PL. ALL STEEL DECK SHALL CROSS A MINIMUM OF TWO SPANS. MINIMUM LENGTH OF END LARS AND BEAR CF 350 PL. ADD MANS. ADDITIONAL UNCESS AND ACCUME OF OTHER TACATED SPANS. ADDITIONAL AND TARE CITU. ADDITIONAL SADDITIONAL UNCE SECURITY OF THE TRANSPORT CORMINS. ADDITIONAL UNCESS CONTACTOR AS AND ACCUME OF CONTRACT THE PLUCIE WELL SCIENCESS AND ACCUME TO PUBLICATIONS. ADDITIONAL AND TARE THAN THAN THAN AND AND TARE THAN B. SIDE LAP CONNECTIONS SHALL BE MADE AT 12 YO THER TRANSPORT B. UP SY DIMMETER PUDDLE WELLS CONTACTOR AS 2 PER SPAN. SIDE LAP CONNECTIONS SHALL BE MADE AT 12 YO NEET RANSULS (SK) PATTER PUBLICATIONS SHALL BE MADE AT 12 YO NEET RANSULS. ADD ROOF SUB PORTUPIES AND CROSS SHALL BE MADE AT 12 YO NEET RANSULS. AND ROOF SUB PUBLICATIONS AS APPLICABLE. COLD-FORMED STEEL DESIGN MANUAL AND SSINT TED WHERE WELLS AND CROSS SHALL BE MADE STEEL DESIGN MANUAL AND SSINT OF SUBLICATION SA PAPLICABLE. SI WAS AND AND SSINT THE OWNER AND THE ADDITION AND SSINT OF STEEL SI WAS CONTACT WITH AND CONTACT AND CHARGE AND THE ADDITION AND SSINT OF SUBLICATION SA PAPLICABLE. SI WAS AND SANDA STEEL SECONDARY STEEL BEAR MADE STEEL DESIGN MANUAL AND SSINT OF SUBLICATION SA SAPPLICABLE. SI WAS AND AND	 NETAL BUILDING SYSTEMS SECTION 13 ST 19 METAL BUILDING SYSTEMS AND LER PROVIDED AN AUMURACITY. BUILDING SYMEMER THE AURUNC SYSTEMS PARAL EN PROVIDED AS DULLEGATE ENGINEERED SYSTEM IN ACCEPTABLE 10 HE MANURACITURE. METAL BUILDING SYSTEM SAULD EN PROVIDED AS DULLEGATE ENGINEERED SYSTEM IN ACCEPTABLE 10 HE MANURACITURE. DERING AND AND AND AND AND AND AND AND AND AND	KC-46A FUSELAGE TRAINER U.S. ARMY ENGINEE BY: DATE: DEFINITIVE DESIGN U.S. ARMY ENGINEER DISTRICT BESIGNED BY: DATE: DEFINITIVE DESIGN U.S. ARMY ENGINEER DISTRICT BESIGNED BY: DATE: DEFINITIVE DESIGN U.S. ARMY ENGINEER DISTRICT BESIGNED BY: DATE: DEFINITIVE DESIGN U.S. ARMY ENGINEER DISTRICT BESIGNED BY: DATE: DEFINITIVE DESIGN MOBILE: ALBAMA RAWN BY: 24.17/2013 BASE X, CONUS MOBILE: ALBAMA C.MCGEE 34.17/2013 BASE X, CONUS BURNS & MEDONNELL A.17/2013 BYMBY: BASE X, CONUS BURNS & MEDONNELL A.17/2013 BYMBY: GENERAL NOTES BURNS & MEDONNELL BRETTRANN BASH MOBILE: ALBAMA MOBILE: ALBAMA A.17/2013 BYMBY: BASH DATE: DATE: DATE: DATE: BASH DATE: DATE:
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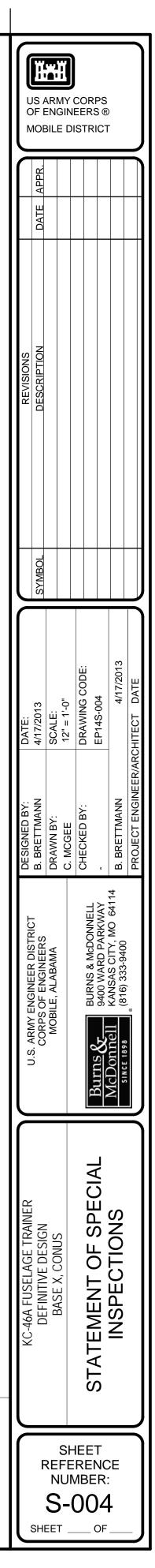
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F	ABBREVIATIONS:AA- ALUMINUM ASSOCIATIONAB- ANCHOR BOLTABT- ABOUTACI- AMERICAN CONCRETE INSTITUTEADH- ADHESIVEAGGR- AGGREGATEAHR- ANCHORAISI- AMERICAN IRON AND STEEL INSTITUTEAISC- AMERICAN INSTITUTE OF STEEL CONSTRUCTIONAL- ALUMINUMALTN- ALTERNATE ANSIANSI- AMERICAN NATIONAL DADDO INSTITUTE	GR - GRADE GRTG - GRATING H - SLAB THICKI HEF - HORIZONTAL FACE HEX - HEXAGON HG - HIGH HK - HOOK HR - HANDRAIL HPT - HIGH POINT HORIZ - HORIZONTAL HS - HIGH STREN IBC - INTERNATIO BUILDING CO ID - INSIDE DIAM IF - INSIDE FACE	LEACH SP SPEC SQ SST STD STL STIF L STIF IGTH STR NAL STRL DDE STRUG	 SHORT LEG OUTSTAN SLOPE SLEEVE SPACE SPECIFICATION SQUARE STAINLESS STEEL STANDARD STEEL STIFFENER STIRRUP STRAIGHT STRUCTURAL C STRUCTURE SOUTHWEST SYMMETRICAL
E	STANDARDS INSTITUTEAPPROX - APPROXIMATEARCH- ARCHITECTASTM- AMERICAN SOCIETY FOR TESTING OF MATERIALSAWS- AMERICAN WELDING SOCIETYBC- BOLT CIRCLEBETW- BETWEENBLDG- BUILDINGBM- BEAMBO- BOTTOM OFBOS- BOTTOM OFBOT- BASE OF PIERBRG- BEARINGBRKT- BRACKETCAP- CAPACITY	IJ - ISOLATION J IN - INCHES INTR - INTERIOR INVT - INVERT IR - INSIDE RADI JT - JOINT KB - KNEE BRACE KPL - KICK PLATE KSI - KIPS PER SQUARE INC L - ANGLE LAD - LADDER LB - POUND LD - DEVELOPME LG - LONG LL - LIVE LOAD LLH - LONG LEG H	IOINT T TEMP THK THRU US THD T/ E TOB T/C OF TOC TH TOG T/STL TOS T/P ENT LENGTH T&B TRD TYP IORIZONTAL UNO	- TON - TEMPORARY - THICK - THROUGH - THREAD - TOP OF - TOP OF BOLT - TOP OF BOLT - TOP OF CONCRETE - TOP OF GRATING OR - TOP OF STEEL - TOP OF PIER - TOP OF PIER - TOP OF PIER - TOP AND BOTTOM - TREAD - TYPICAL - UNLESS NOTED
D	C/C - CENTER TO CENTER CL - CENTER LINE CF - CUBIC FEET CHKR - CHECKER CIR - CIRCLE CJ - CONSTRUCTION JOINT CLR - CLEAR CLJ - CONTROL JOINT CMU - CONCRETE MASONRY UNIT CO - CONCRETE OPENING COMP - COMPRESSION CONC - CONCRETE CONT - CONTINUOUS CONT - CONTRACT COL - COLUMN CONN - CONNECTION COTR - CONTRACTING OFFICER COR - CORNER	LLV - LONG LEG V LONG - LONGITUDIN LPT - LOW POINT LNTL - LINTEL LS - LAP SPLICE MATL - MATERIAL MAX - MAXIMUM	IAL VERT VEF W WD W/ W/O NNECTION WP L JRER WS WT JRER WVF	OTHERWISE - VARIES - VERTICAL - VERTICAL EACH FACE - WEST - WIDE - WITH - WITHOUT - WORK POINT - WATERSTOP - WEIGHT - WELDED WIRE FABRIC - WIDTH - AT - AND - POUNDS OR NUMBER - PERCENT
С	COORD - COORDINATE COORD - COORDINATE CRSI - CONCRETE REINFORCING STEEL INSTITUTE CTR - CENTER CTRD - CENTERED CY - CUBIC YARD DBL - DOUBLE DET - DETAIL DIAG - DIAGONAL DIA - DIAMETER DIM - DIMENSION DK - DECKING DL - DEAD LOAD DN - DOWN DWL - DOWEL DWG - DRAWING E - EAST	NA - NOT APPLIC. NE - NORTHEAST NF - NEAR FACE NOM - NOMINAL NW - NORTHWEST NIC - NOT IN CONT NIC - NOT IN CONT NTS - NOT TO SCA NO - NUMBER NS - NEAR SIDE OC - ON CENTER OD - OUTSIDE DIA OF - OUTSIDE FA OPNG - OPENING OPP - OPPOSITE OSHA - OCCUPATIO	ABLE T TRACT LE AMETER CE	
В	EA- EACHED- EQUIPMENT DRAINEF- EACH FACEEJ- EXPANSION JOINTEL- ELEVATIONELEC- ELECTRICALELEV- ELEVATOREMBED- EMBEDMENTEQ- EQUALEQUIV- EQUIVALENTEQ SP- EQUILLY SPACEDEQUIP- EXISTINGEXP- EXPANSIONEXT- EXTERIOREW- EACH WAYFAB- FABRICATE	PED - PEDESTAL PEN - PENETRATE PEMP - PRE-ENGINE BUILDING PERP - PERPINDICU PJNT - PROJECTION PL - PLATE PLC - PLACES PREFAB - PREFABRICA PS - PIPE SUPPO PSF - POUNDS PEI PSI - POUNDS PEI PSI - POUNDS PEI PVC - POLYVINYL (R - RISER RAD - RADIUS RD - ROOF DRAIN	ERED METAL ILAR N ATED RT R SQUARE FOOT R SQUARE INCH CHLORIDE	
A	FD- FLOOR DRAINFDN- FOUNDATIONFTG- FOOTINGFF- FAR FACEFL- FLOORFLG- FLANGEFNSH- FINISHFS- FAR SIDEFT- FEETFUT- FUTUREGA- GAGEGALV- GALVANIZEGB- GROUND	REF - REFERENCE REINF - REINFORCE REQD - REQUIRED REV - REVISION RM - ROOM S - SOUTH SB - SHEAR BAR SCHED - SCHEDULE SE - SOUTHEAST SECT - SECTION SH - SHEET SIM - SIMILAR SF - SWAY FRAM		

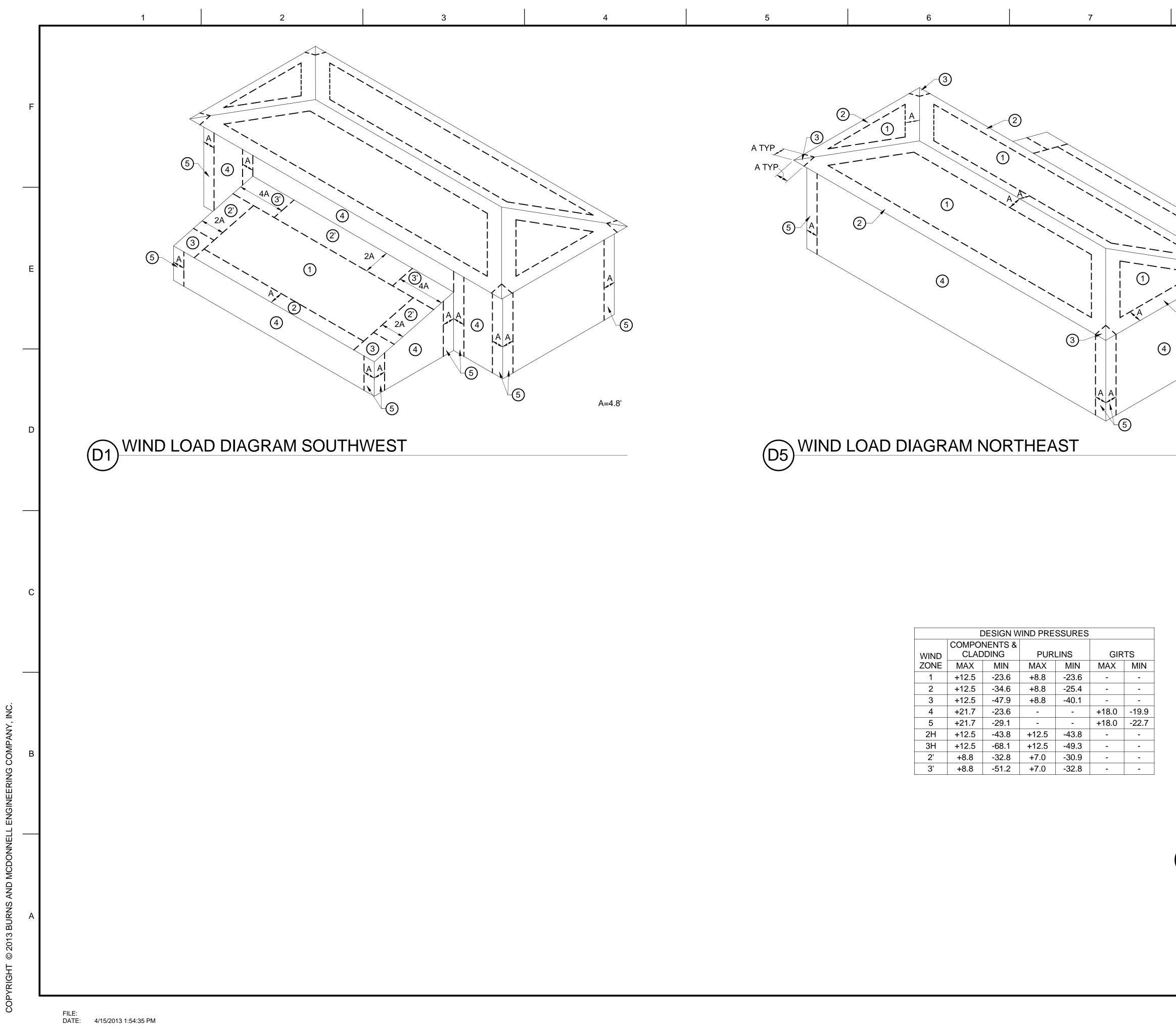


KC-46A FUSELAGE TRAINER	II S ABMY ENGINIEED DISTRICT	DESIGNED BY:	DATE:		REVISIONS		С
DEFINITIVE DESIGN	CORPS OF ENGINEERS	B. BRETTMANN	4/17/2013	SYMBOL	DESCRIPTION	DATE APPR.	JS A DF E 10E
	MOBILE, ALABAMA	DRAWN BY:	SCALE:				ΞN
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EGEND & ARREVIATIONS	BURNS & McDONNELL						ERS
	DUILLO 21 9400 WARD PARKWAY	1	EP14S-003				S®
	INICUONNEIL KANSAS CITY, MO 64114	B. BRETTMANN	4/17/2013				
	8	PROJECT ENGINEER/ARCHITECT DATE	ARCHITECT DATE				

				STATE	EMENT OF S	PECIAL INSPECTIONS					
	NOTES: 1. STATEMENT OF SPECIAL INSPECTIONS			2. TESTING REQUIRE	EMENTS						
	A. THIS "STATEMENT OF SPECIAL INSPECTIONS" HAS BEEN PREPARED IN ACCORDANC	,		704. A. CONTRACTOR	R SHALL EMPLOY ONE (OR MORE PRE-COORDINATED AND GOVERNMENT-APPROVED					
	B. CONTRACTOR SHALL EMPLOY ONE OR MORE PRE-COORDINATED AND GOVERNMEN INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION.	IT-APPROVED SPEC	CIAL			IE STRUCTURAL TESTING DURING CONSTRUCTION. EST RESULTS DURING CONSTRUCTION FOR VERIFICATION					
F	C. SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE C	, -		INCLUDING A	FINAL REPORT IN ACCO	ORDANCE WITH SECTION 1704.1.2 OF IBC 2009.					
	SATISFACTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE, FOR INSPECTION CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.	JN OF THE PARTICL	JLAR TYP	PE OF C. TABLE 1 (BEL	OW) IDENTIFIES THE ST	TRUCTURAL TESTS REQUIRED FOR THIS PROJECT.					
	D. SPECIAL INSPECTION AGENCY SHALL SUBMIT INSPECTION REPORTS DURING CONS	TRUCTION FOR VEI	RIFICATIC	DN,							
	INCLUDING FINAL REPORTS IN ACCORDANCE WITH SECTION 1704.1.2 OF IBC 2009. E. SPECIAL INSPECTOR SHALL USE THE LATEST ISSUE OF THE STRUCTURAL DRAWING	GS FOR THE INSPEC	CTION OF	THIS							
	STRUCTURE. SHOP FABRICATION DRAWINGS SHALL NOT BE USED FOR INSPECTION	N PURPOSES.									
	F. THE FOLLOWING TABLES INDENTIFY THE MATERIALS, SYSTEMS, AND COMPONENTS IS REQUIRED.	FOR WHICH SPECI	IAL INSPE	CTION							
	TABLE 1704.3 REQUIRED VERIFICATION AND INSP	PECTION OF STEEL (CONSTRU	ICTION		TABLE 1704.5.3 LEVEL 2 REQUIRED VERIFICATION AND	INSPECTION OF N	ASONRY CO	NSTRUCTION		
	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODI	C REFERENCED STANDARD ^a	IBC REFERENCE		FREQUENCY O		REFER	RENCE FOR CRITE	RIA
	1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:					VERIFICATION AND INSPECTION				TMS 402/ACI	TMS 602/ACI
	a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED	<u> </u>		AISC 360, SECTION A3.3			CONTINUOUS	PERIODIC	IBC	530/ASCE 5 ^a	530.1/ASCE 6 ^a
F	IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х	AND APPLICABLE ASTM		1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION		Х	_	_	ART. 1.5
-	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		V	MATERIAL STANDARDS		DOCUMENTS AND THE APPROVED SUBMITTALS.	+				
	2. INSPECTION OF HIGH-STRENGTH BOLTING:		^			 VERIFICATION OF f'm PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION. 	_	Х	-	_	ART. 1.4B
	a. SNUG-TIGHT JOINTS.		X			3. VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED	++				
	b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT W/		- •		4704.0.0	3. VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR AND GROUT AS DELIVERED TO THE SITE.	—	Х	-	—	ART. 1.5B
	MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR	_	Х	AISC 360, SECTION M2.5	1704.3.3	4. THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	· ·		•I		· · · · · · · · · · · · · · · · · · ·
	METHODS OF INSTALLATION.					a. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT.		Х	—		ART. 2.6A
	3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:	r	-			b. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.		X			ART. 3.3B
	a. FOR STRUCTURAL STEEL, INDENTIFICATION MARKINGS TO CONFORM TO AISC 360). —	Х	AISC 360, SECTION M5.5		c. PLACEMENT OF REINFORCEMENT.	1 – 1	Х	-	SEC. 1.15	ART. 3.4, 3.6A
	 b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. 		Х	APPLICABLE ASTM	_	d. GROUT SPACE PRIOR TO GROUTING.	Х	_	—		ART. 3.2D
	c. MANUFACTURERS' CERTIFIED TEST REPORTS.		X	MATERIAL STANDARDS		e. PLACEMENT OF GROUT.	Х	_			ART. 3.5
	4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		Λ			f. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		Х			ART. 3.3F
D	a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN			AISC 360, SECTION A3.5		g. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	X	—		SEC.1.2.2(e), 1.16.1	
	THE APPROVED CONSTRUCTION DOCUMENTS.	_	Х	AND APPLICABLE AWS A5 DOCUMENTS	_	h. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT AND ANCHOR BOLTS.		V		SEC.1.15	ART.2.4.3.4
	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		X			i. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING		٨	—	SEC.1.15	ART.2.4,3.4
	5. INSPECTION OF WELDING:		~			COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER		Х	SEC. 2104.3,	_	ART. 1.8C, 1.8D
	a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:					(TEMPERATURE ABOVE 90 DEGREES F).			2104.4		
	1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	Х				5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS AND/OR PRISMS SHALL	X	_	SEC. 2105.2.2,		ART. 1.4
	2) MULTIPASS FILLET WELDS AND SINGLE-PASS FILLET WELDS > 5/16".	X		AWS D1.1	1704.3.1	BE OBSERVED.			2105.3		
	3) SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE.		Х			FOR SI: °C = (°F) -32}/1.8, 1 SQUARE FOOT = 0.0929m ² . a. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CHAPTER 35 OF IBC 20	109				
	4) FLOOR AND ROOF DECK WELDS.	—	X	AWS D1.3							
	6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:					TABLE 1704.7 REQUIRED VERIFICATION A	ND INSPECTION C	F SOILS			
	a. DETAILS SUCH AS BRACING AND STIFFENING.		Х		1704.3.2	VERIFICATION AND INSPECTION TASK			CONTINU	OUS	PERIODIC
	b. MEMBER LOCATIONS.		<u>X</u>	_		1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE		CAPACITY.			X
С	c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION. a: SEE ALSO IBC 2009 SECTIONS 1705.3, 1707, AND 1708 FOR REQUIRED SPECIAL INSPECTION		X DAL TEST			2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROP	ER MATERIAL.				<u>X</u>
	a. SEE ALSO IDE 2009 SECTIONS 1703.3, 1707, AND 1708 FOR REQUIRED SPECIAL INSPECTIC	JNS AND STRUCTUR	NAL TEST	TING FOR SEISIMIC RESISTAN		 PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS. DENSITIES AND LIFT THICKNESSES DURING PLACE 					X
						COMPACTION OF COMPACTED FILL.			X		_
	TABLE 1704.4 REQUIRED VERIFICATION AND INSPECT					5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT	SITE HAS BEEN				
	VERIFICATION AND INSPECTION		PERIODI	C REFERENCED STANDARD	IBC REFERENCE	PREPARED PROPERLY.			_		X
	1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	—	X	ACI 318: 3.5, 7.1-7.7	1913.4						
	2. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING										
	PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED		—	ACI 318: 8.1.3, 21.2.8	1911.5, 1912.1	TABLE 1 SUMMARY OF REQUIRED					
į I	3. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		x	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1	TEST		S PERIODIO		STANDARD IB	
- -			<u> </u>		1904.2.2, 1913.2,	1. CONCRETE a. CYLINDER COMPRESSION TESTING	Y		٨٥٣٩	1 C39	SECTION 1905
	4. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3	a. CYLINDER COMPRESSION TESTING 2. MASONRY			ASTN		
	5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENG			ASTM C 172		a. HOLLOW UNIT BLOCK COMPRESSION TESTS (UNIT STRENGTH METHOD)	X		ASTN	1 C90 5	SECTION 2105
	TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPATURE OF THE CONCRETE.	<u>-</u> X		ASTM C 31 ACI 318: 5.6, 5.8	1913.10	b. PRISM COMPRESSION TESTS (PRISM TEST METHOD)	X		ASTM		SECTION 2105
	6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.				1913.6, 1913.7, 1913.8	3. POST-INSTALLED CONCRETE ANCHORS*					
	7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPATURE AND TECHNIQUES	S. —	Х	ACI 318: 5.11- 5.13	1913.9	a. EXPANSION ANCHORS	X		ICC-ES		SECTION 1912
	8. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF FORMS FRO	Эм _ МС	X	ACI 318: 6.2		b. ADHESIVE ANCHORS	X		ICC-ES	AC 193	SECTION 1912
	GRADE BEAMS AND STRUCTURAL SLABS.					*WHEN DIRECTED BY THE CONTRACT DOCUMENTS TO PROVIDE POST-INSTALLED ANCHOF GUIDELINES SHALL BE FOLLOWED:	RAGES THE FOLLO	DWING			
·	9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE		Х	ACI 318: 6.1.1		1. A REPRESENTATIVE OF THE ANCHOR MANUFACTURER OR PROJECT SPECIAL INSPEC	TOR SHALL BE ON	I SITE TO			
	MEMBER BEING FORMED.					OVERSEE THE INSTALLATION OF THE FIRST FOUR ANCHORS FOR EACH TYPE OF ANC MEASURE SHALL BE TAKEN FOR EACH INSTALLER OF THE ANCHORS. THIS SERVICE IS					
	a: EXCEPTIONS: ISOLATED SPREAD FOOTINGS, NONSTRUCTURAL SLABS ON GRADE. b: X - INDICATES TYPE OF INSPECTION REQUIRED.					FREE BY THE LOCAL ANCHOR REPRESENTATIVE.	STIFICALLI PRO	VIDED			
						 THE FIRST FOUR ANCHORS SHALL BE TENSION TESTED ONCE INSTALLATION IS COMP SERVICE LEVEL LOAD CAPACITY AS SPECIFIED BY THE MANUFACTURER. 	LETE FOR 200% C	OF THE			
2						SERVICE LEVEL LOAD CAPACITY AS SPECIFIED BY THE MANUFACTURER.					
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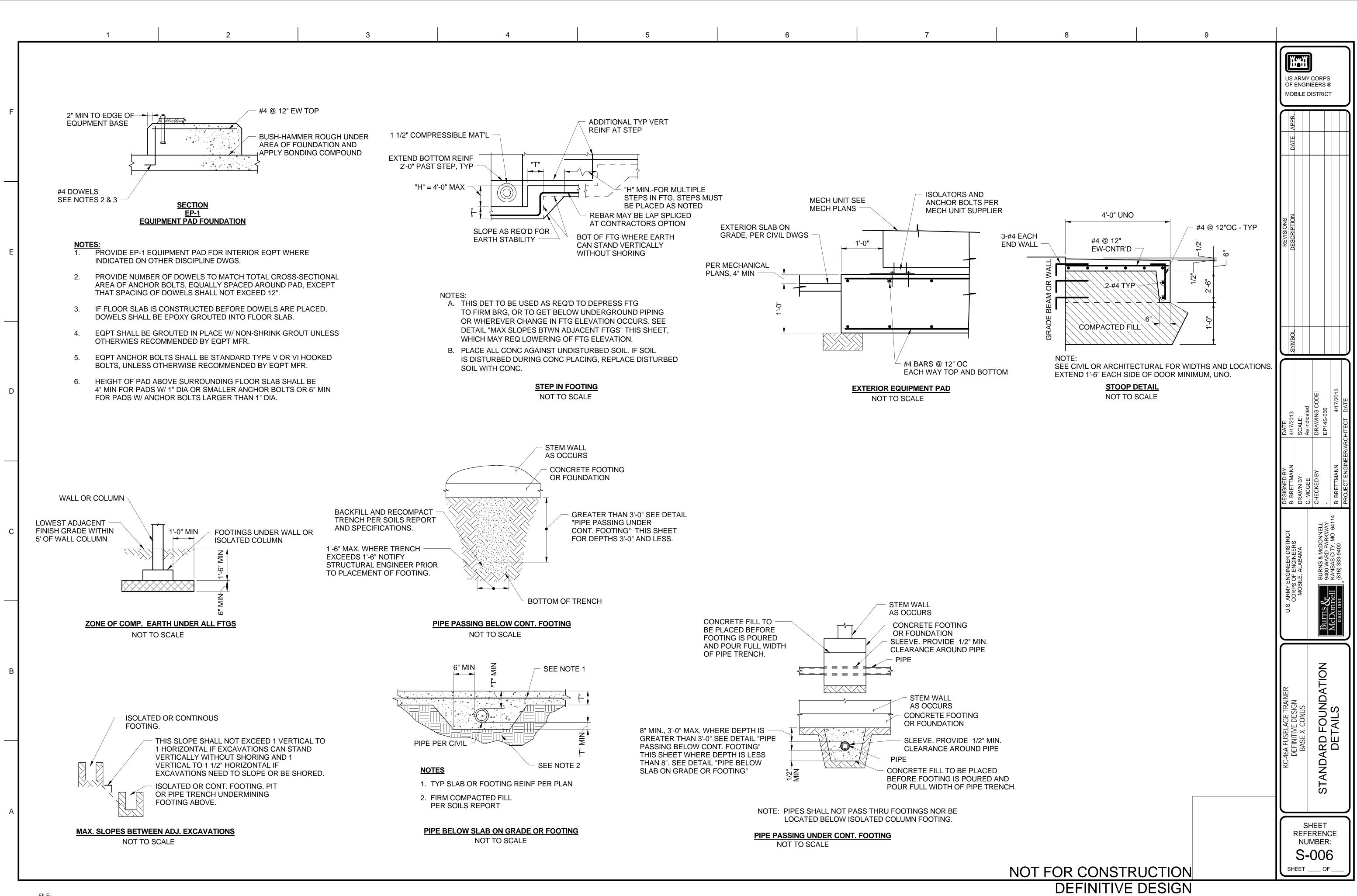
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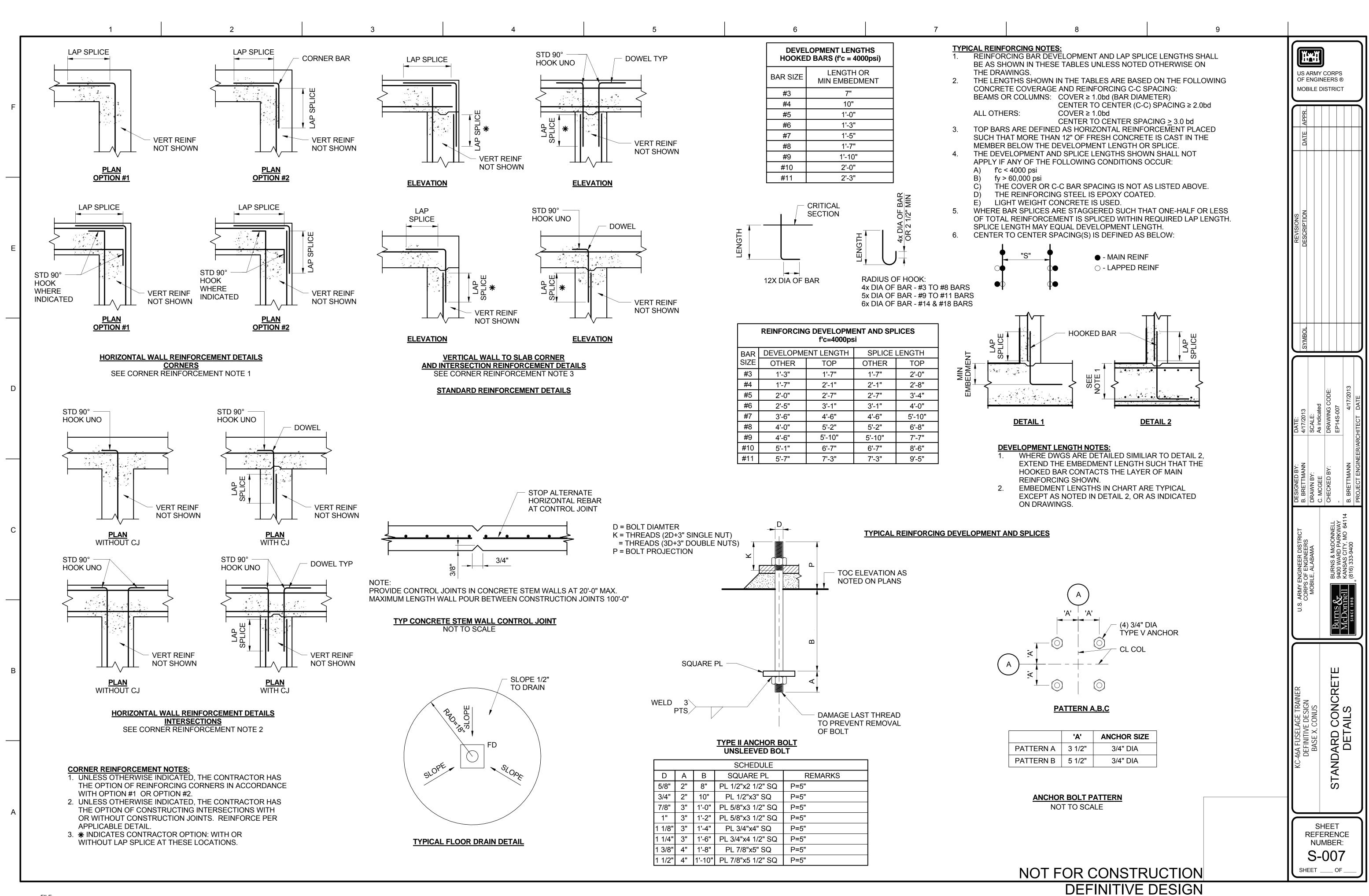
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2	+12.5	-34.6	+8.8	-25.4	-	-					
3	+12.5	-47.9	+8.8	-40.1	-	-					
4	+21.7	-23.6	-	-	+18.0	-19.9					
5	+21.7	-29.1	-	-	+18.0	-22.7					
2H	+12.5	-43.8	+12.5	-43.8	-	-					
ЗH	+12.5	-68.1	+12.5	-49.3	-	-					
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		DESIGNED BY: B. BRETTMANN DRAWN BY:	C. MCGEE CHECKED BY:	
OVERHANG 2H3P		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	BURNS & MCDONNELL 9400 WARD PARKWAY	McDonnell KANSAS CITY, MO 64114 since 1898 (816) 333-9400
APPLIED TO BOTH SIDES BUT		KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN RASE X CONITS	SNOW DRIFT AND WIND	LOADING ISO DIAGRAM
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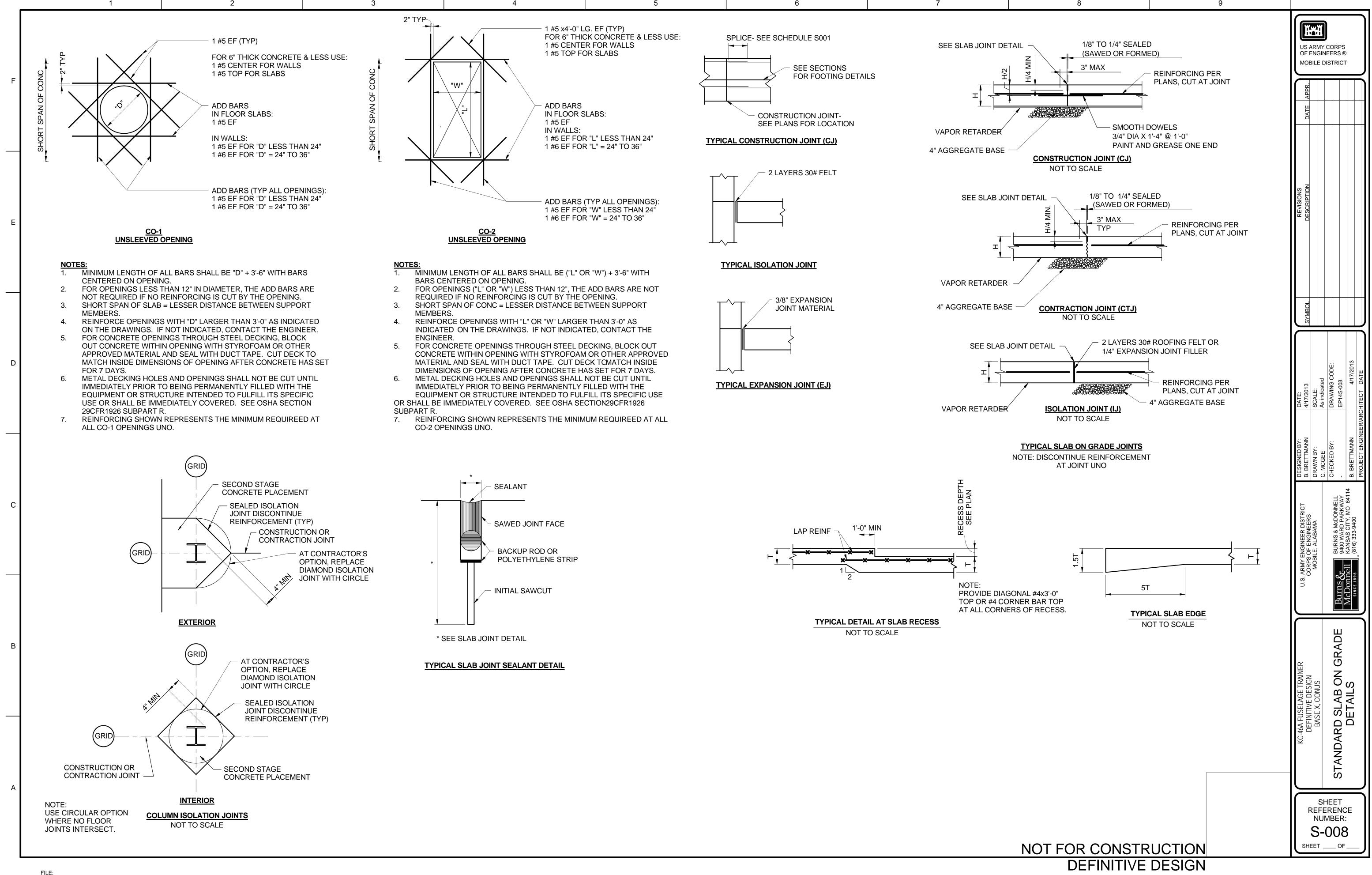
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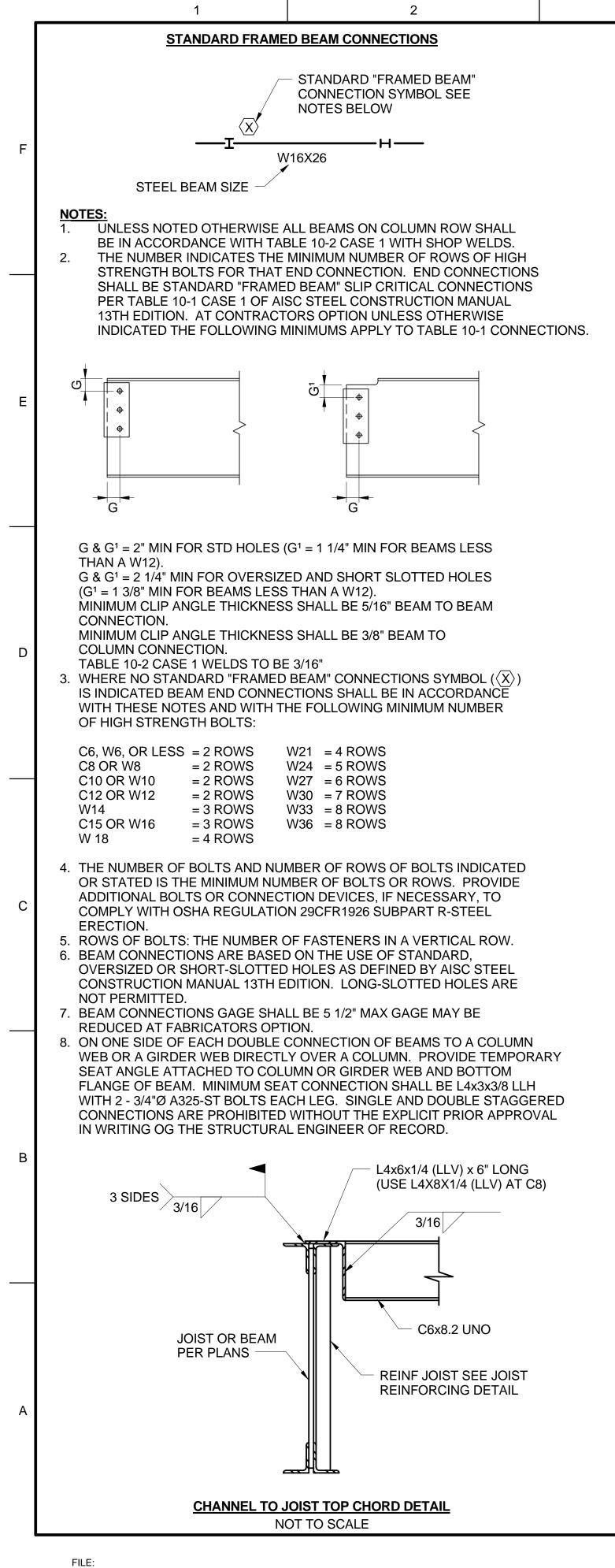
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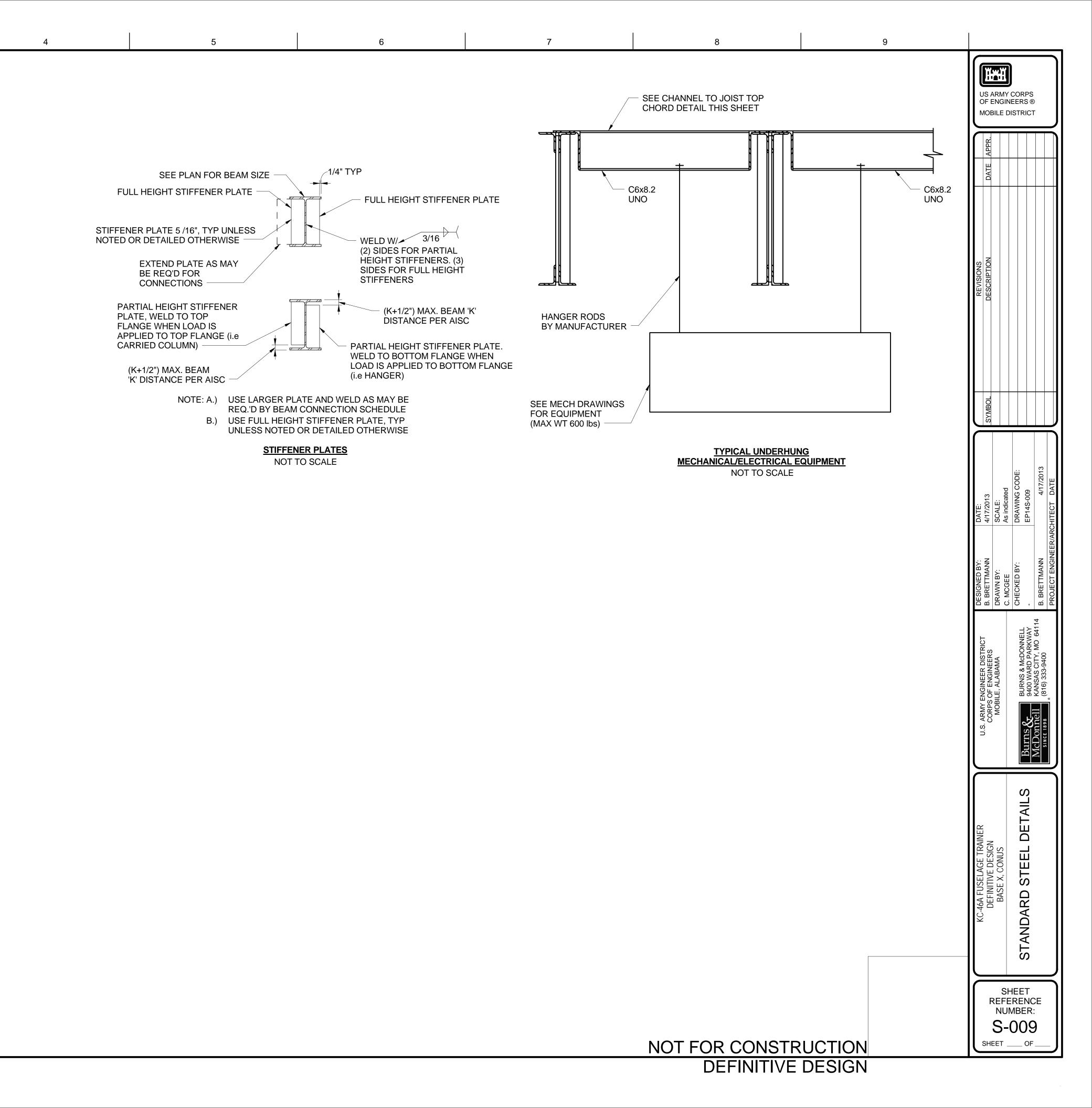
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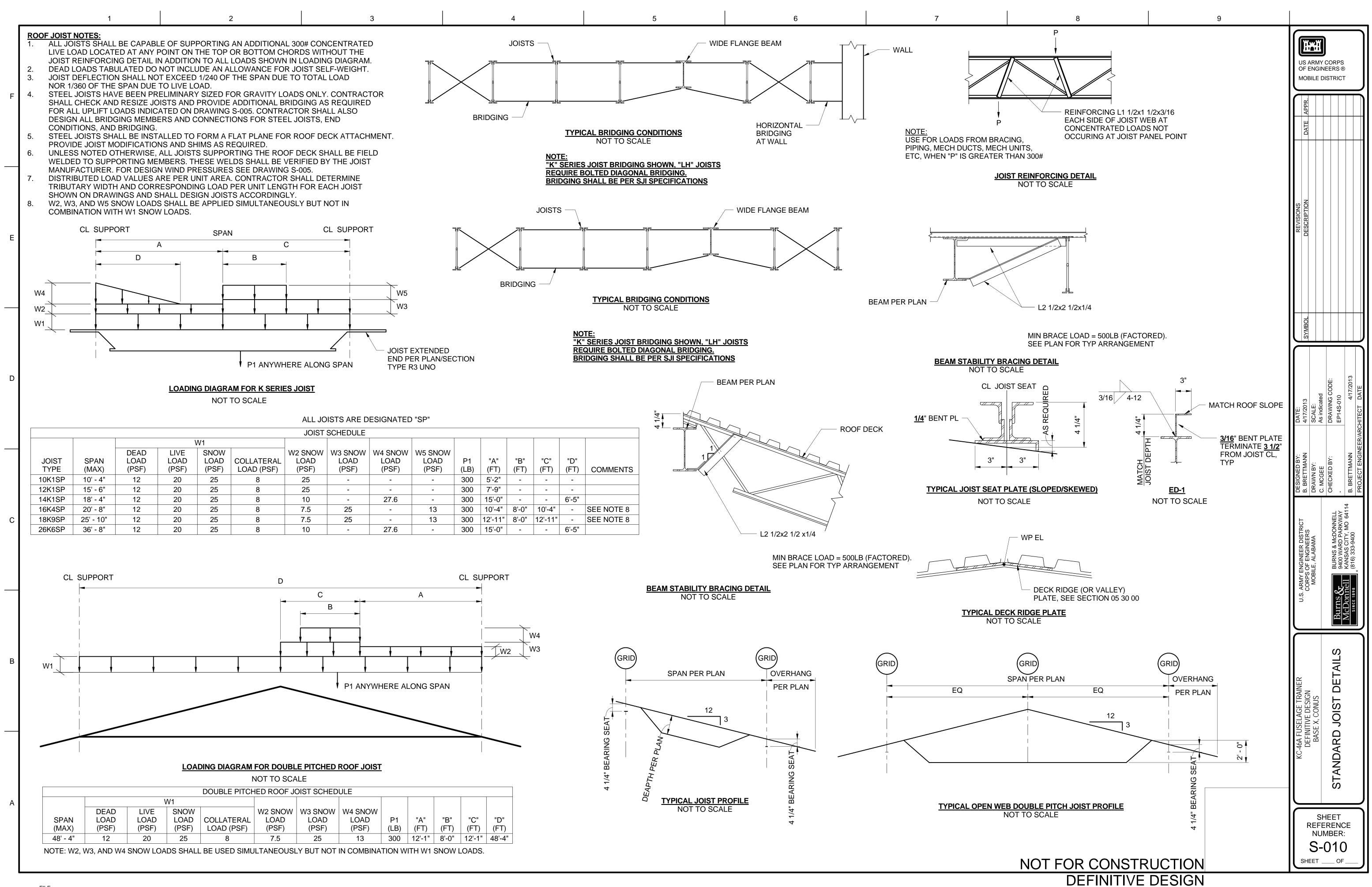
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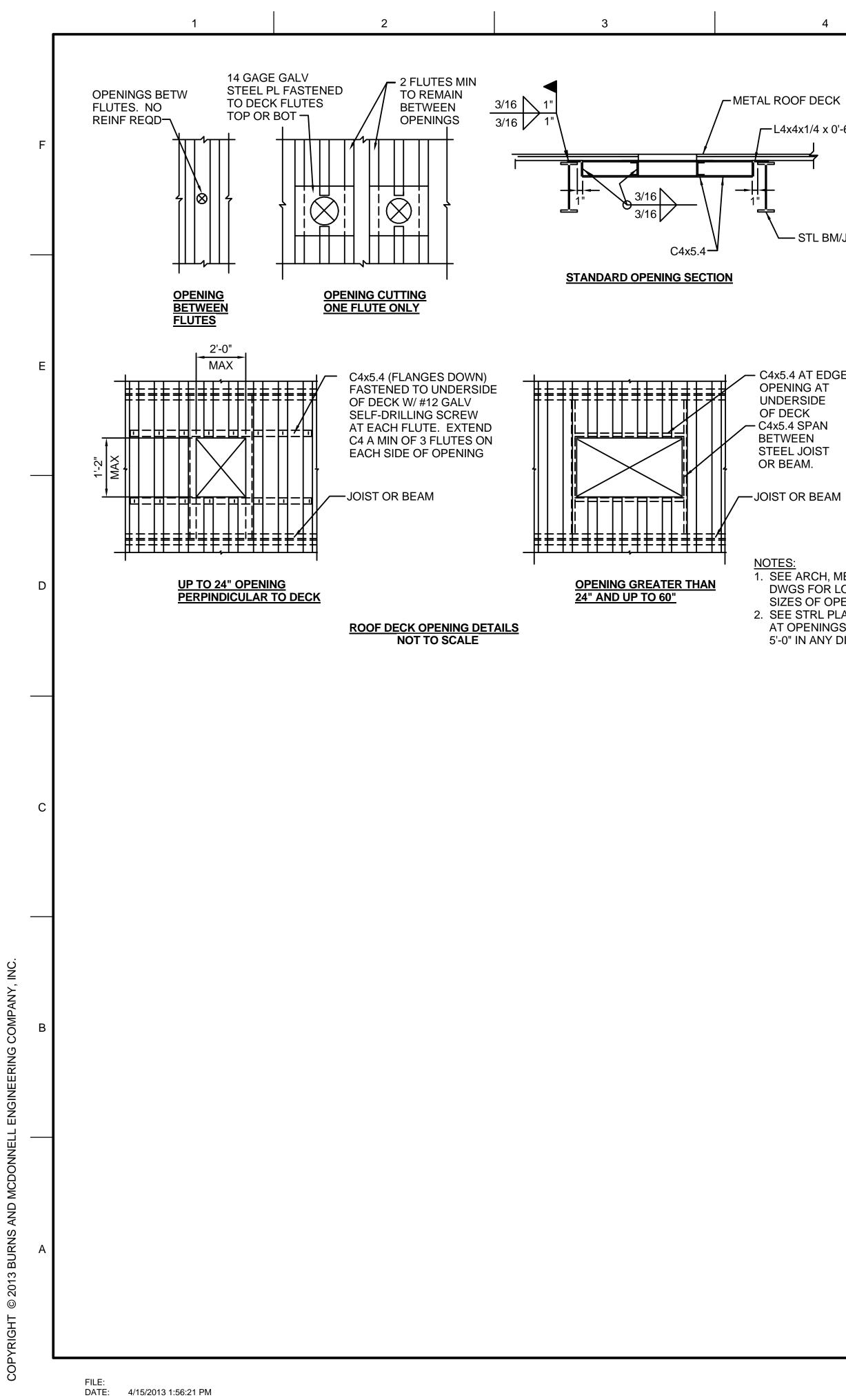






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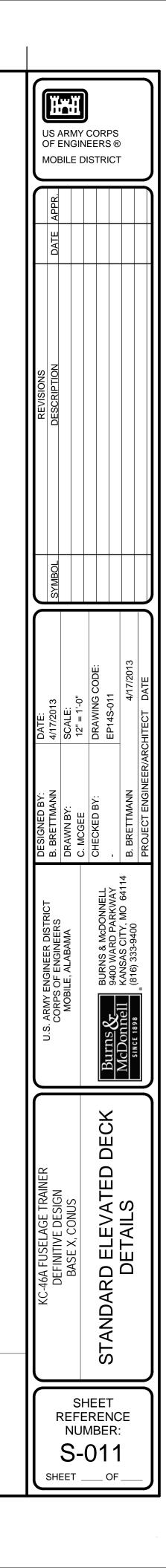
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L4x4x1/4 x 0'-6"

STL BM/JOIST

– C4x5.4 AT EDGE OF OPENING AT UNDERSIDE - C4x5.4 SPAN BETWEEN STEEL JOIST

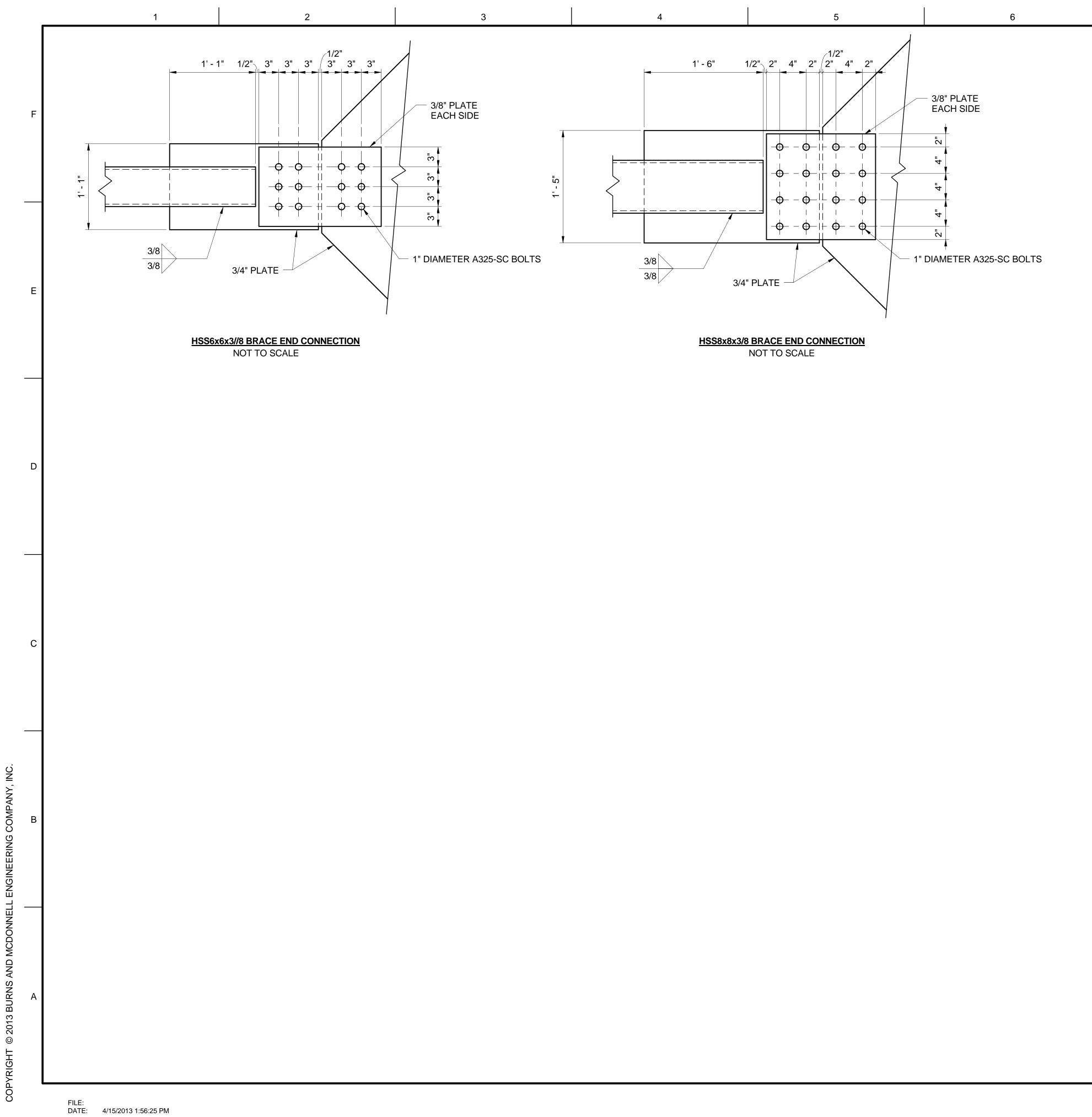
1. SEE ARCH, MECH, AND ELEC DWGS FOR LOCATIONS AND SIZES OF OPENINGS. 2. SEE STRL PLANS FOR FRAMING AT OPENINGS GREATER THAN 5'-0" IN ANY DIRECTION.



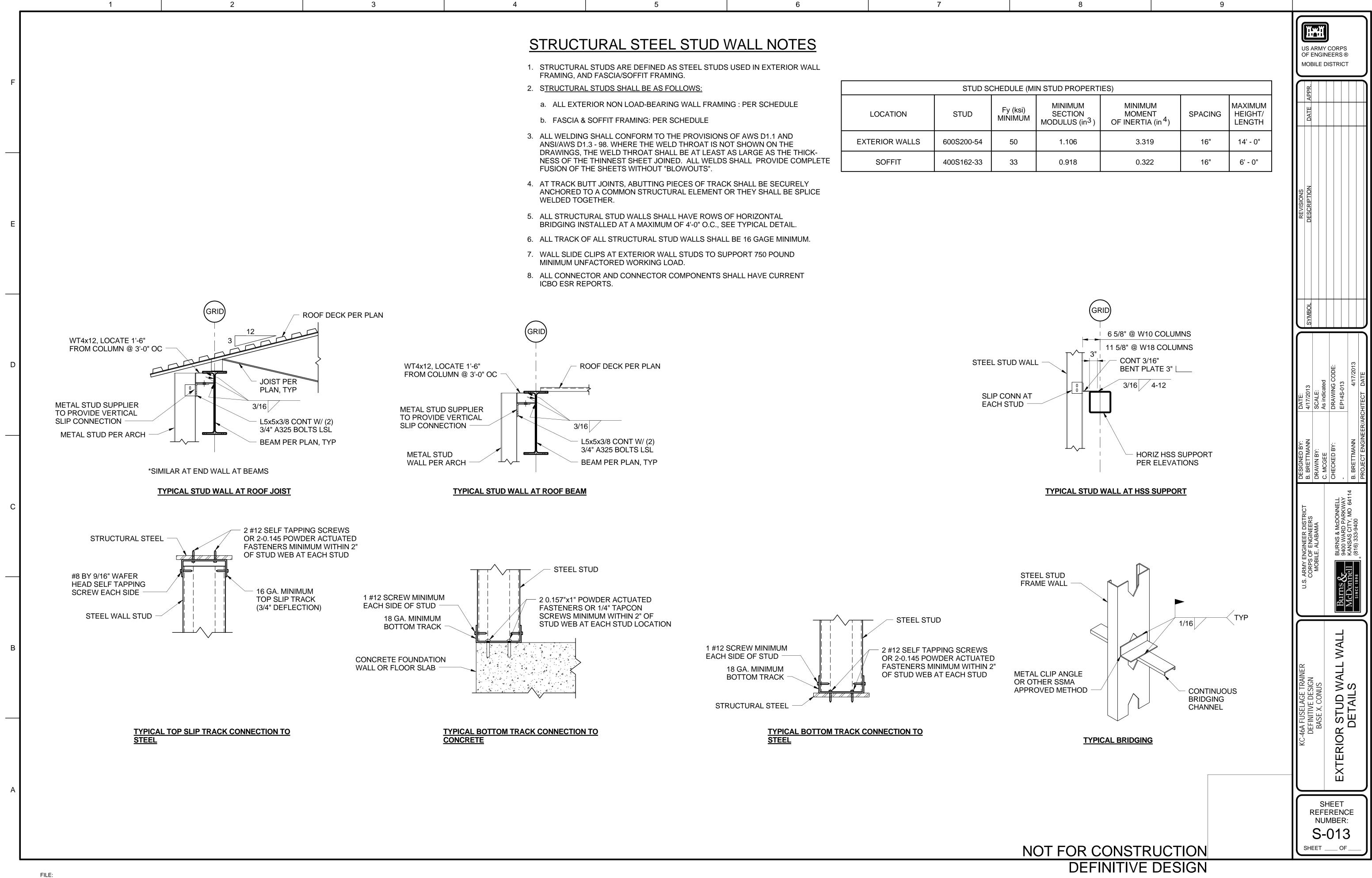
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	CORPS OF ENGINEER DISTRICT	MOBILE, ALABAMA			BURNS & MCDONNELL	9400 WARD PARKWAY	MICDONNEIL KANSAS CITY, MU 64114	8	
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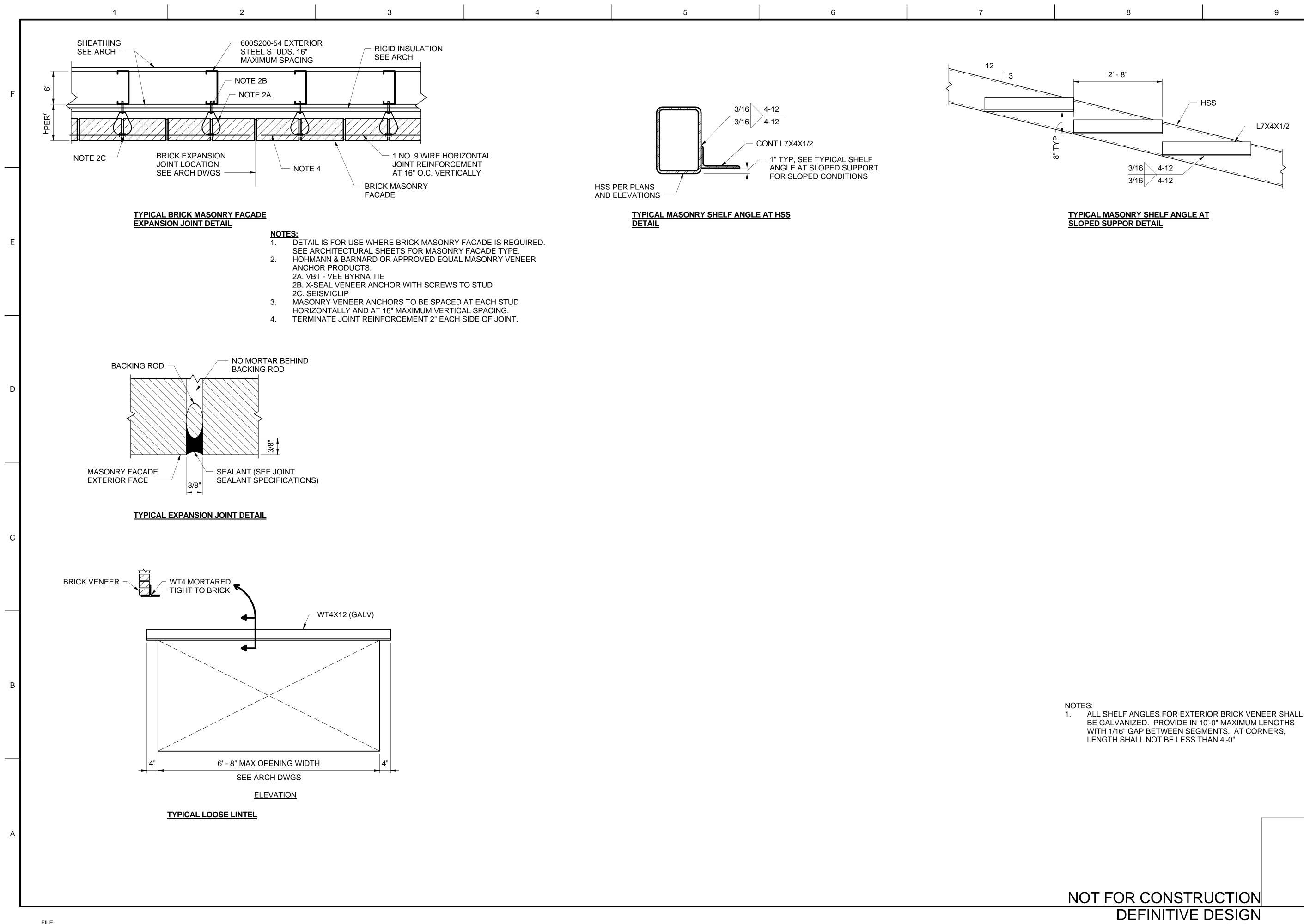
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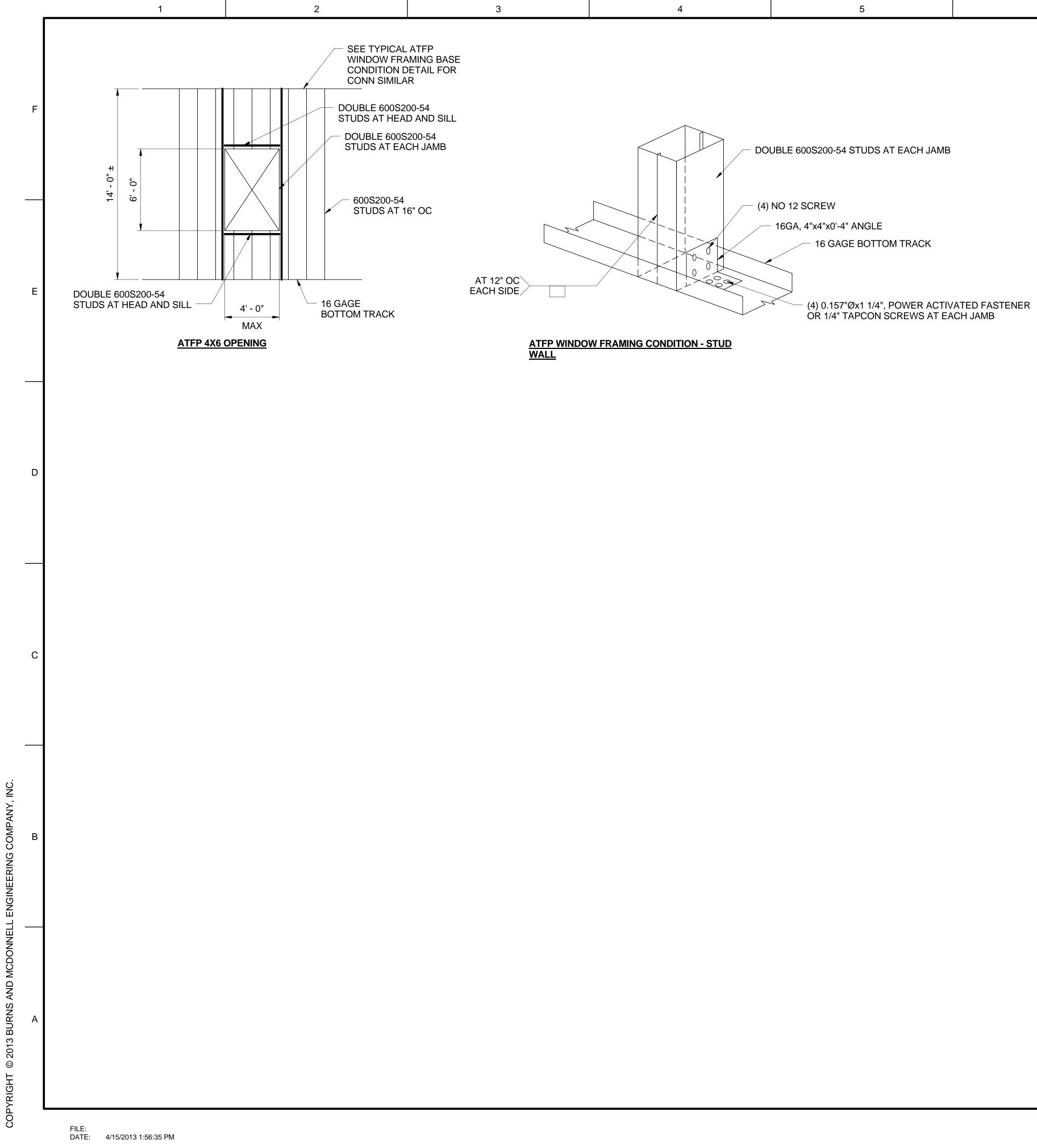
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		9400 WARD PARKWAY		EP14S-014					S®
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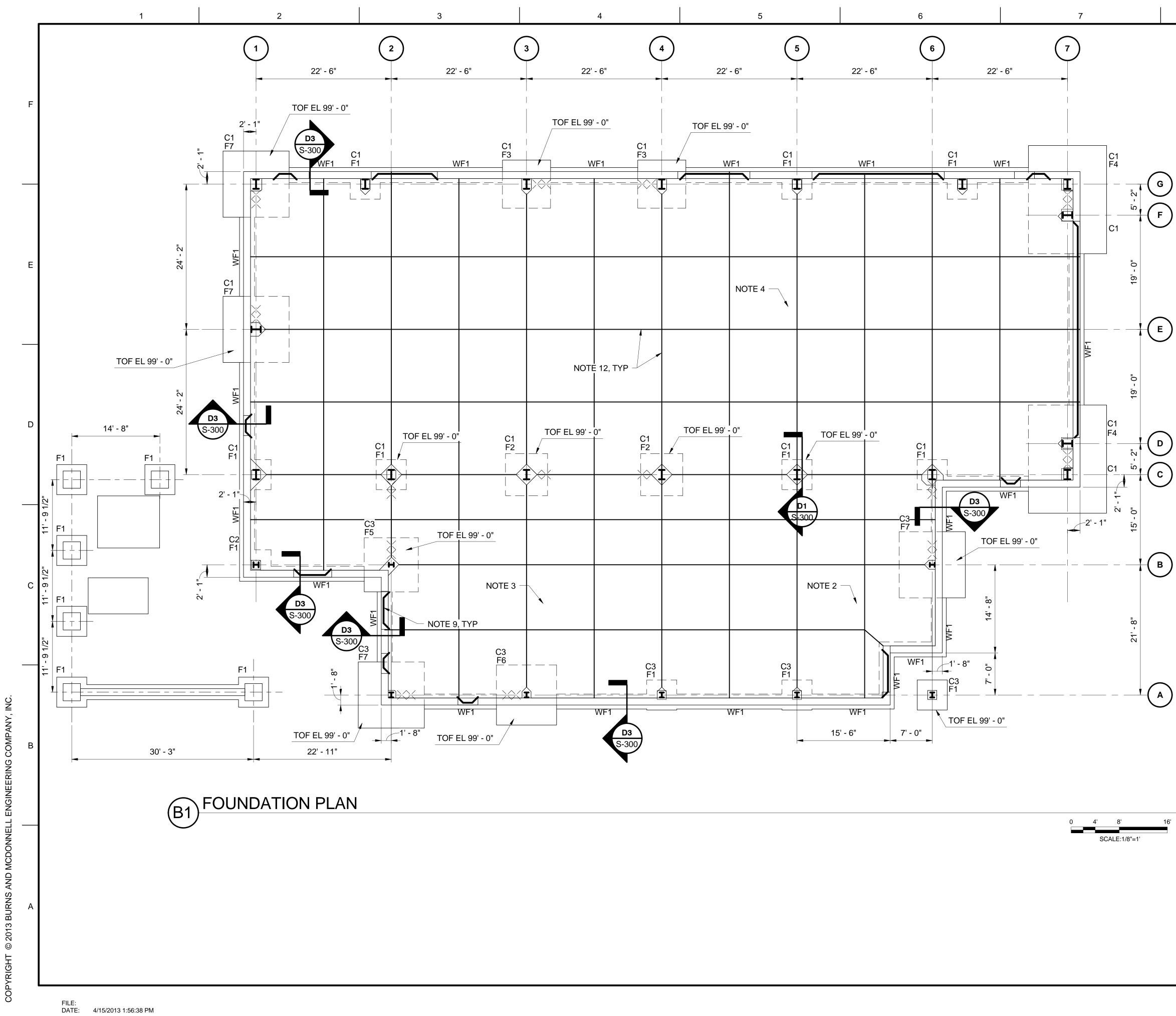


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DESIGNED BY: B. BRETTMANN DRAWN BY: C. MCGEE CHECKED BY: - B. BRETTMANN B. BRETTMANN PROJECT ENGINEE
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 816) 333-9400
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS TYPICAL ATFP
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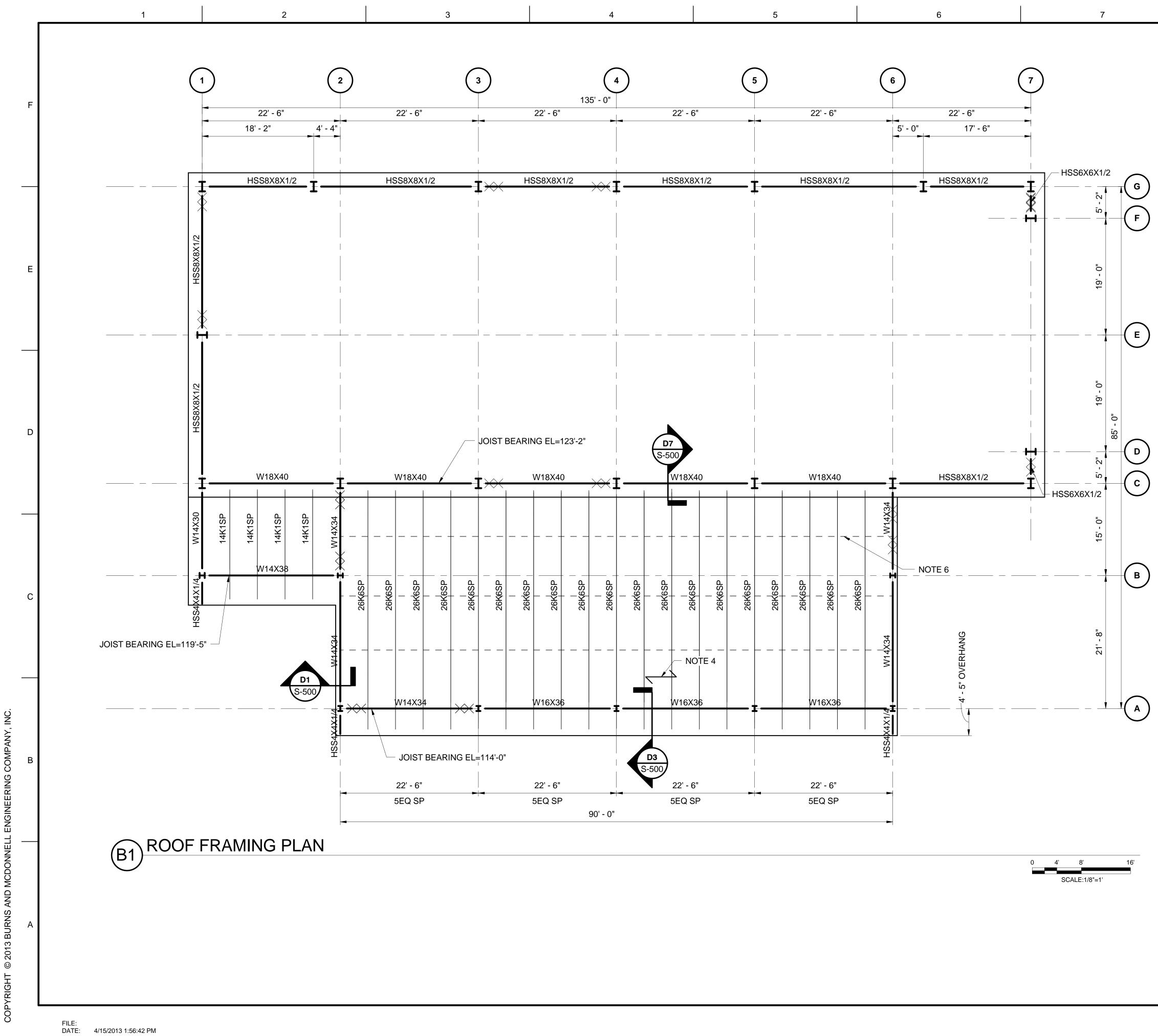


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	ID COLUMN SIZE ANCHORAGE BASE PLATE TYPE C1 W18X106	ISOLATED FOOTING SCHEDULE ID WIDTH LENGTH THICKNESS REINFORCING F1 5' - 0" 5' - 0" 1' - 0" 5-#7 EW BOTT F2 7' - 0" 7' - 0" 3' - 0" 7-#7 EW F3 8' - 0" 8' - 0" 3' - 0" 8-#7 EW BOTT F4 18' - 0" 13' - 0" 4' - 0" #7 @ 12" OC F5 9' - 0" 9' - 0" 3' - 0" 9-#7 EW F6 10' - 0" 10' - 0" 3' - 0" 10-#7 EW F7 11' - 0" 11' - 0" 3' - 0" 11-#7 EW	SEE DWG S-010 FOR TYPICAL JOIST DETAILS, SEE DWG S-011 FOR TYPICAL ELEVATED DECK DETAILS, SEE DWG S-012 FOR TYPICAL BRACING DETAILS. SEE DWG S-014 FOR TYPICAL METAL STUD DETAILS, SEE DWG S-015 FOR TYPICAL ATFP WINDOW DETAILS. SLAB ON GRADE AT OFFICE/CLASSROOM/COMPUTER ROOM SI BE 4 INCH THICK CONCRETE SLAB REINFORCED WITH 6X6:W2. WWF ON 10 MIL VAPOR BARRIER ON 4 INCH THICK AGGREGATI BASE COURSE. SLAB ON GRADE AT MECHANICAL/ELECTRICAL ROOMS ROOM SE 6 INCH THICK CONCRETE SLAB REINFORCED WITH 6X6:W2. WWF ON 10 MIL VAPOR BARRIER ON 4 INCH THICK AGGREGATI COURSE. FUSELAGE TRAINER ROOM. ROOM SHALL BE 8 INCH THICK CONCRETE SLAB REINFORCED WITH #4 BARS AT 18 INCHES OI CENTER EACH WAY ON 10 MIL VAPOR BARRIER ON 4 INCH THICK AGGREGATE BASE COURSE. XX INDICATES BRACES BAY LOCATIONS. SEE BUILDING ELEVA FOR GEOMETRY. F#, WF#, AND C# INDICATES FOOTING TYPE, WALL FOOTING TY AND COLUMN, SEE FOUNDATION SCHEDULES AND FOR COLUM SCHEDULE THIS DRAWING. GROUND FLOOR DATUM ELEVATION 100.00. TOP OF FOOTING ELEVATION 97'-6" TYPICAL UNO. PROVIDE #4 X 4'-0" CENTERED IN SLAB AT RE-ENTRANT CONRE AND DISCONTINUOUS JOINTS. AT EXTERIOR DOORS, USE #4 BARS SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR LOCATION SIZES OF EQUIPEMENT PADS, SEE DRAWING SFOR LOCATION SIZES OF EQUIPEMENT PADS	ES: SEE DWG S-001 AND S-002 FOR GENERAL STRUCTURAL NOTES SEE DWG S-003 FOR ABBREVIATIONS AND KEY, SEE DWG S-004 FOR SPECIAL INSPECTION REQUIREMENTS, SEE DWG S-005 FOR WIND AND SNOW ISO, SEE DWG S-006 FOR TYPICAL FOUNDATION DETAILS, SEE DWG S-007 FOR TYPICAL CONCRETE DETAILS, SEE DWG S-008 FOR TYPICAL SLAB ON GRADE DETAILS, SEE DWG S-009 FOR TYPICAL STEEL FRAMING DETAILS,
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REFE NUI	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	DESIGNED BY:DATE:REVISIONSB. BRETTMANN4/17/2013SYMBOLD/DRAWN BY:SCALE:As indicatedD/	US ARMY OF ENGIN MOBILE D
HEET ERENCE MBER: 100	FOUNDATION AND SLAB ON GRADE PLAN	BURNS & McDONNELL 9400 WARD PARKWAY McDonnell KANSAS CITY, MO 64114 818(5) 333-9400	CHECKED BY: DRAWING CODE: - EP14S-100 B. BRETTMANN 4/17/2013 PROJECT ENGINEER/ARCHITECT DATE	IEERS ®

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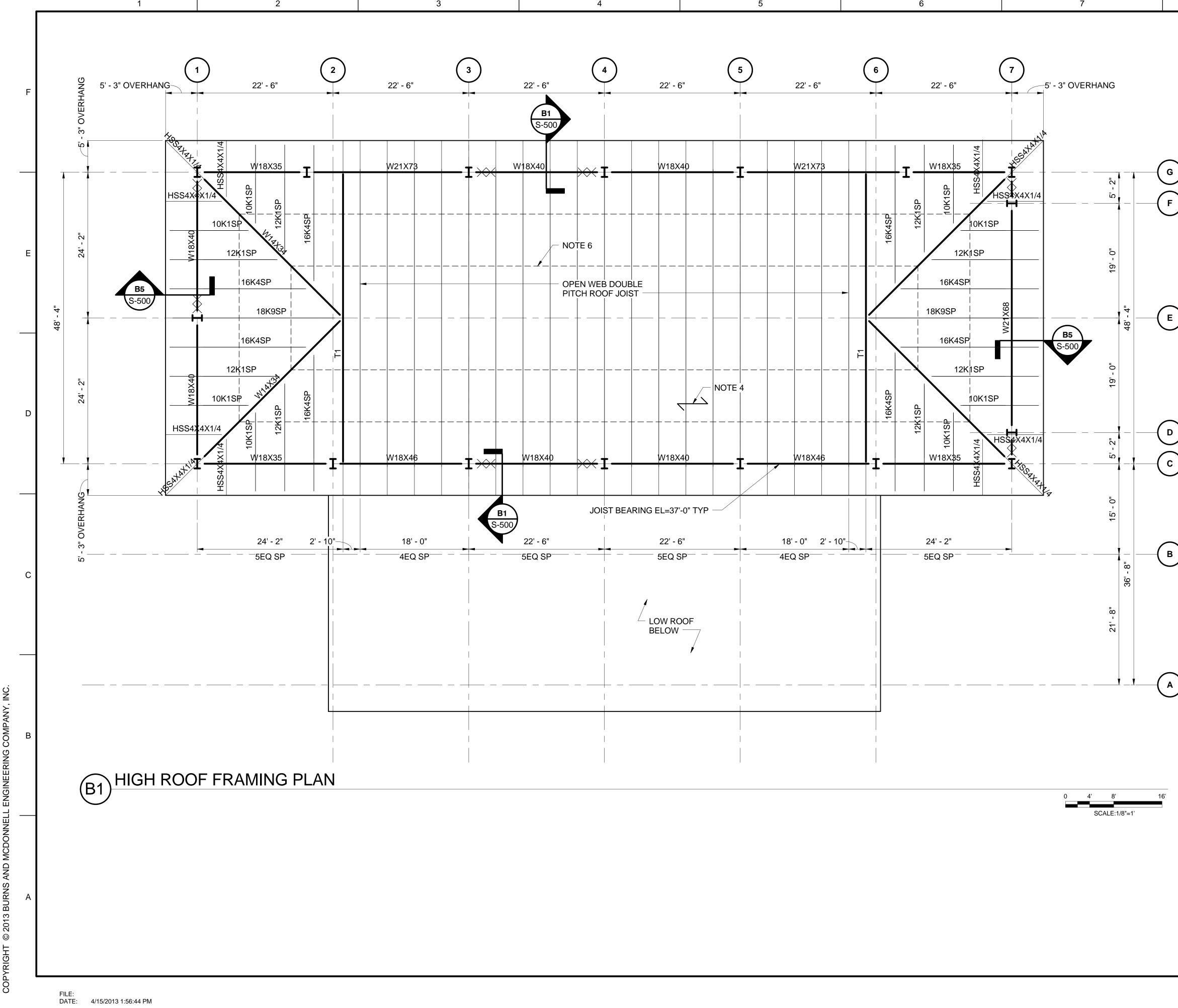
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NOTES 1. SEE DWG S-001 AND S-002 FOR GENERAL STRUCTURAL NOTES, SEE DWG S-003 FOR ABBREVIATIONS AND KEY, SEE DWG S-004 FOR SPECIAL INSPECTION REQUIREMENTS, SEE DWG S-005 FOR WIND AND SNOW ISO	OF ENG	Y CORPS NEERS ® DISTRICT
 SEE DWG S-005 FOR WIND AND SNOW ISO, SEE DWG S-006 FOR TYPICAL FOUNDATION DETAILS, SEE DWG S-007 FOR TYPICAL CONCRETE DETAILS, SEE DWG S-009 FOR TYPICAL SLAB ON GRADE DETAILS, SEE DWG S-010 FOR TYPICAL STEEL FRAMING DETAILS, SEE DWG S-011 FOR TYPICAL ELEVATED DECK DETAILS, SEE DWG S-012 FOR TYPICAL BRACING DETAILS. SEE DWG S-013 FOR TYPICAL METAL STUD DETAILS, SEE DWG S-014 FOR TYPICAL MASONRY VENEER DETAILS, SEE DWG S-015 FOR TYPICAL MASONRY VENEER DETAILS, SEE DWG S-015 FOR TYPICAL ATFP WINDOW DETAILS. GROUND FLOOR DATUM ELEVATION 100.000. TOP OF ROOF VARIES WITH SLOPE, SEE PLANS AND ELELVATIONS FOR JOIST BEARING AND STEEL ELEVATIONS. XX INDICATES BRACES BAY LOCATIONS. SEE BUILDING ELEVATIONS FOR GEOMETRY. ROOF DECK IS 1-1/2 INCH DEEP BY 20 GAGE TYPE B ROOF DECK, SEE GSN. SEE DRAWING S-011 FOR TYPICAL ROOF OPENING FRAMING. JOIST BRIDGING PER MANUFACTURERS REQUIREMENTS, TYPICAL. THE STEEL JOIST SUPPLIER SHALL PROVIDE ALL NECESSARY JOIST BRIDING AND MEANS OF ATTACHMENT. 	REVISIONS DESCRIPTION DATE APPR.	
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	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	BURNS & MCDONNELL BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 81NCE 1898 (816) 333-9400
	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	ROOF FRAMING PLAN
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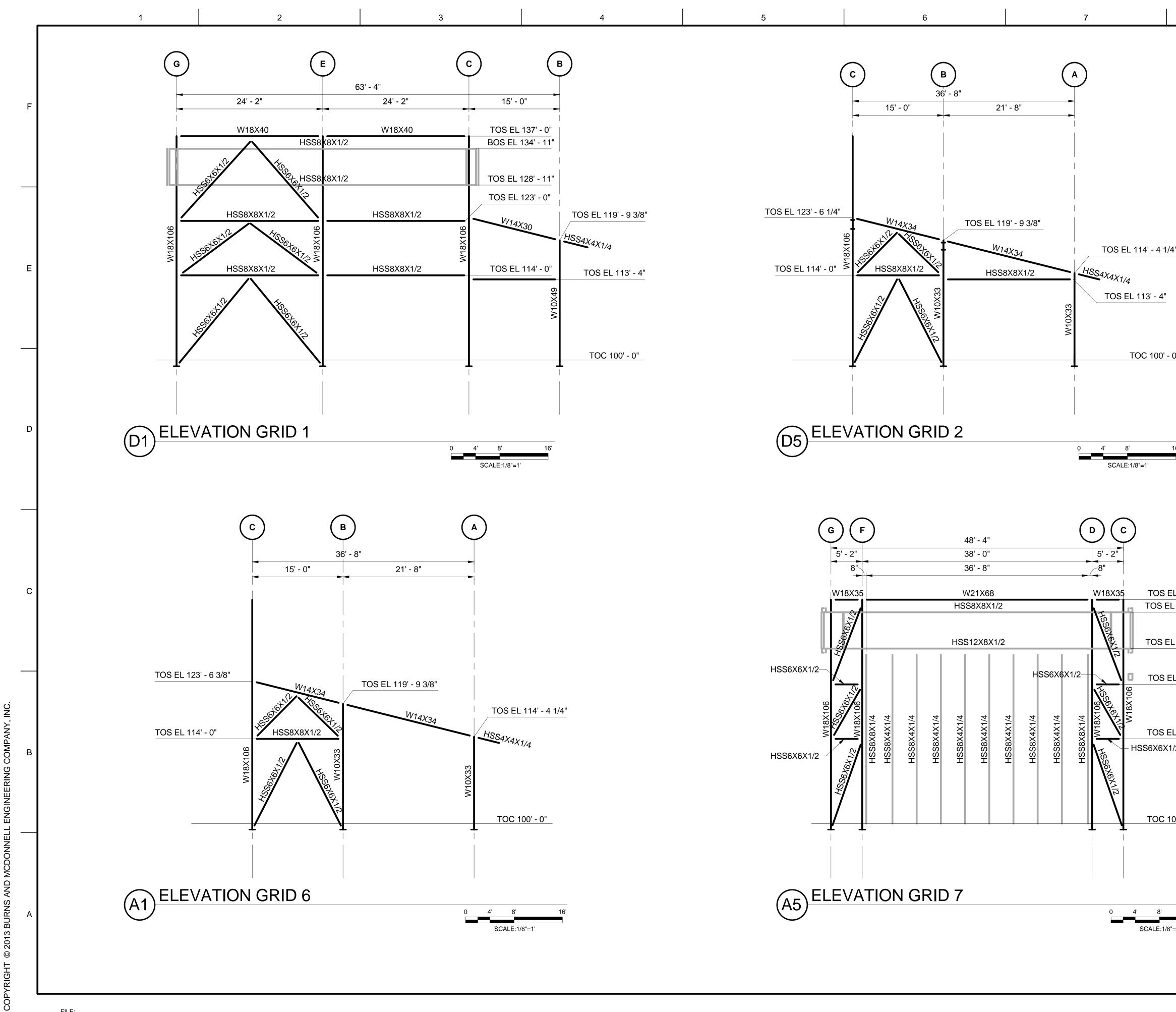
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	1.	SEE DWG S-001 AND S-002 FOR GENERAL STRUCTURAL NOTES, SEE DWG S-003 FOR ABBREVIATIONS AND KEY, SEE DWG S-004 FOR SPECIAL INSPECTION REQUIREMENTS, SEE DWG S-005 FOR WIND AND SNOW ISO, SEE DWG S-006 FOR TYPICAL FOUNDATION DETAILS,	US / OF	ENGI	CORP NEERS DISTRIC	®	
		SEE DWG S-006 FOR TYPICAL FOUNDATION DETAILS, SEE DWG S-007 FOR TYPICAL CONCRETE DETAILS, SEE DWG S-008 FOR TYPICAL SLAB ON GRADE DETAILS, SEE DWG S-009 FOR TYPICAL STEEL FRAMING DETAILS, SEE DWG S-010 FOR TYPICAL JOIST DETAILS,	TE APPR.				_
		SEE DWG S-011 FOR TYPICAL ELEVATED DECK DETAILS, SEE DWG S-012 FOR TYPICAL BRACING DETAILS. SEE DWG S-013 FOR TYPICAL METAL STUD DETAILS, SEE DWG S-014 FOR TYPICAL MASONRY VENEER DETAILS,	DATE				
)	2.	SEE DWG S-015 FOR TYPICAL ATFP WINDOW DETAILS. GROUND FLOOR DATUM ELEVATION 100.000. TOP OF ROOF VARIES WITH SLOPE, SEE PLANS AND ELELVATIONS FOR JOIST BEARING AND STEEL ELEVATIONS.					
)	3. 4.	XX INDICATES BRACES BAY LOCATIONS. SEE BUILDING ELEVATIONS FOR GEOMETRY. ROOF DECK IS 1-1/2 INCH DEEP BY 20 GAGE TYPE B ROOF	REVISIONS DESCRIPTION				
	5. 6.	DECK, SEE GSN. SEE DRAWING S-011 FOR TYPICAL ROOF OPENING FRAMING. JOIST BRIDGING PER MANUFACTURERS REQUIREMENTS,	REV				
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/			STRICT SS	2		9400 WARD FARNWAT KANSAS CITY, MO 64114 (816) 333-9400	,
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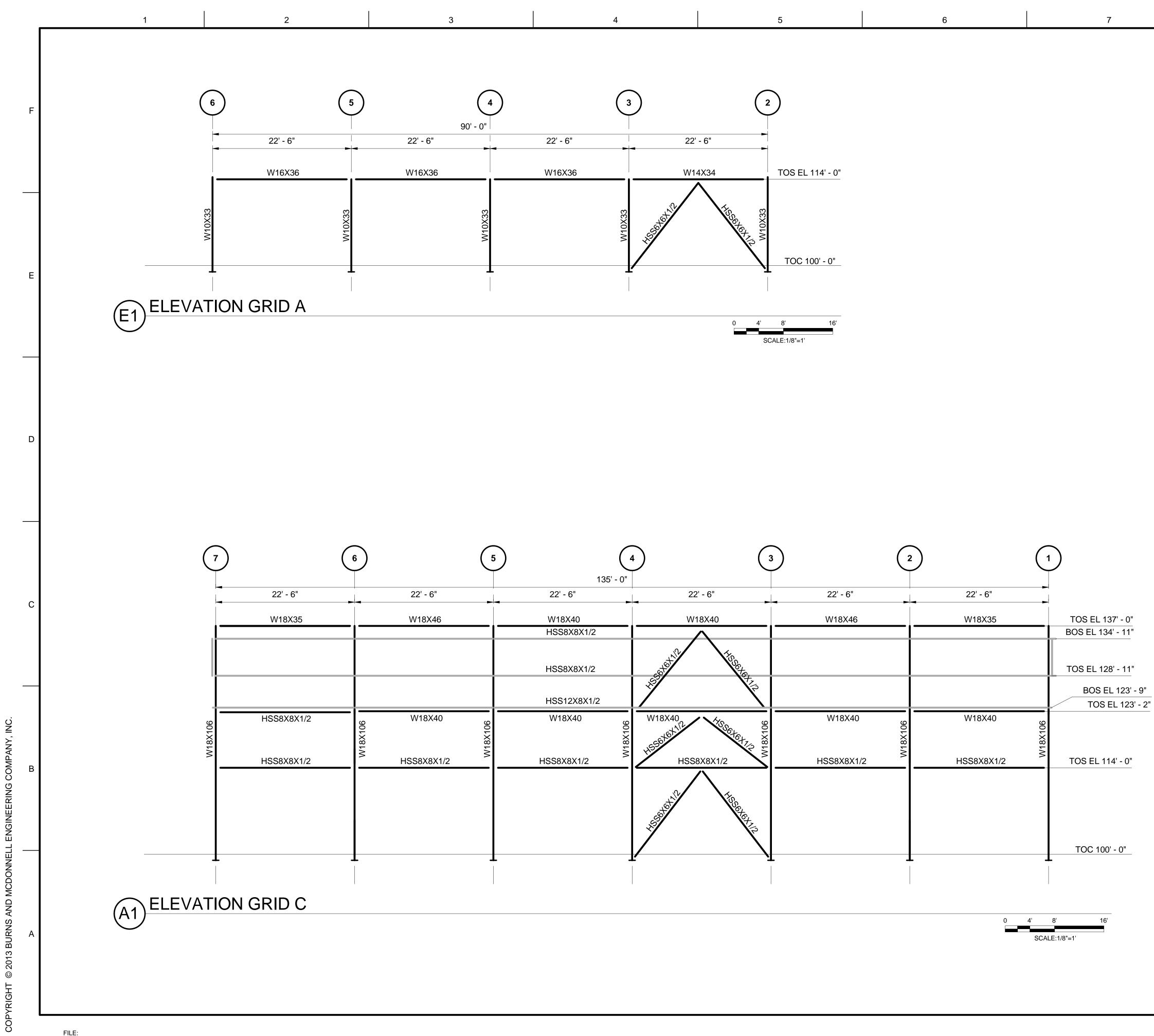


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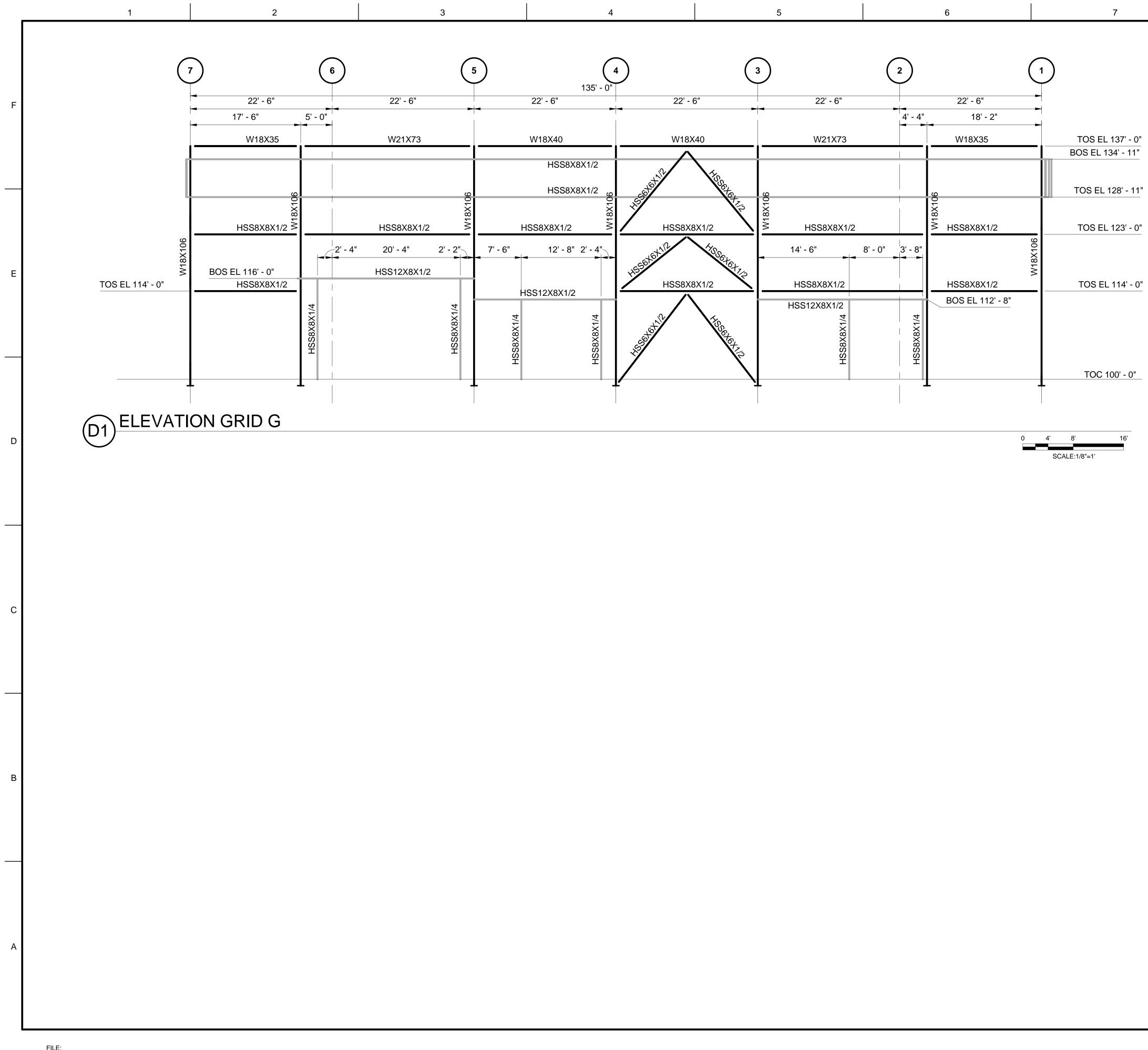
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U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA		BURNS & MCDONNELL 9400 WARD PARKWAY	MCDONNEIL KANSAS CITY, MO 64114 SINCE 1898 (816) 333-9400	8
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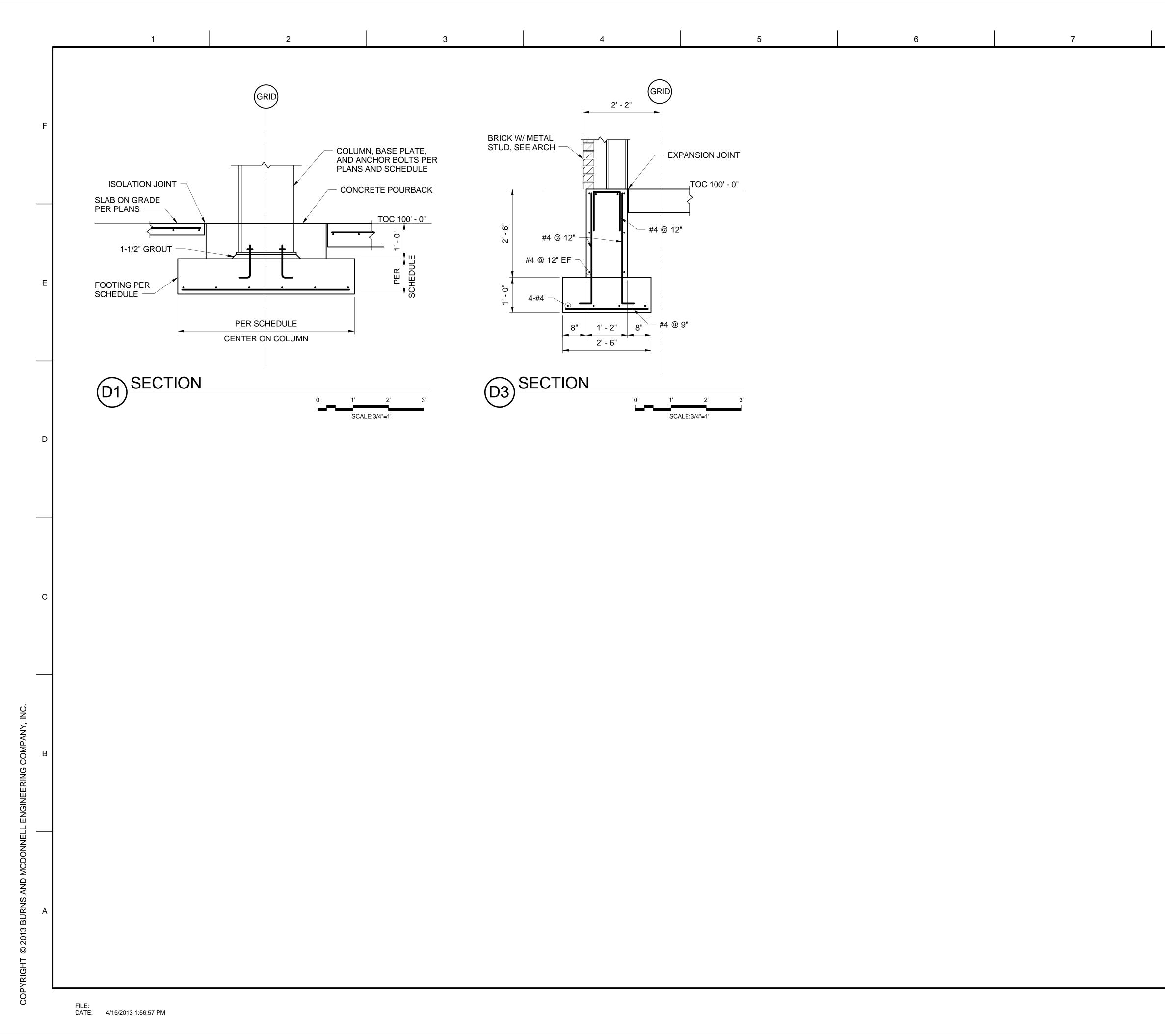
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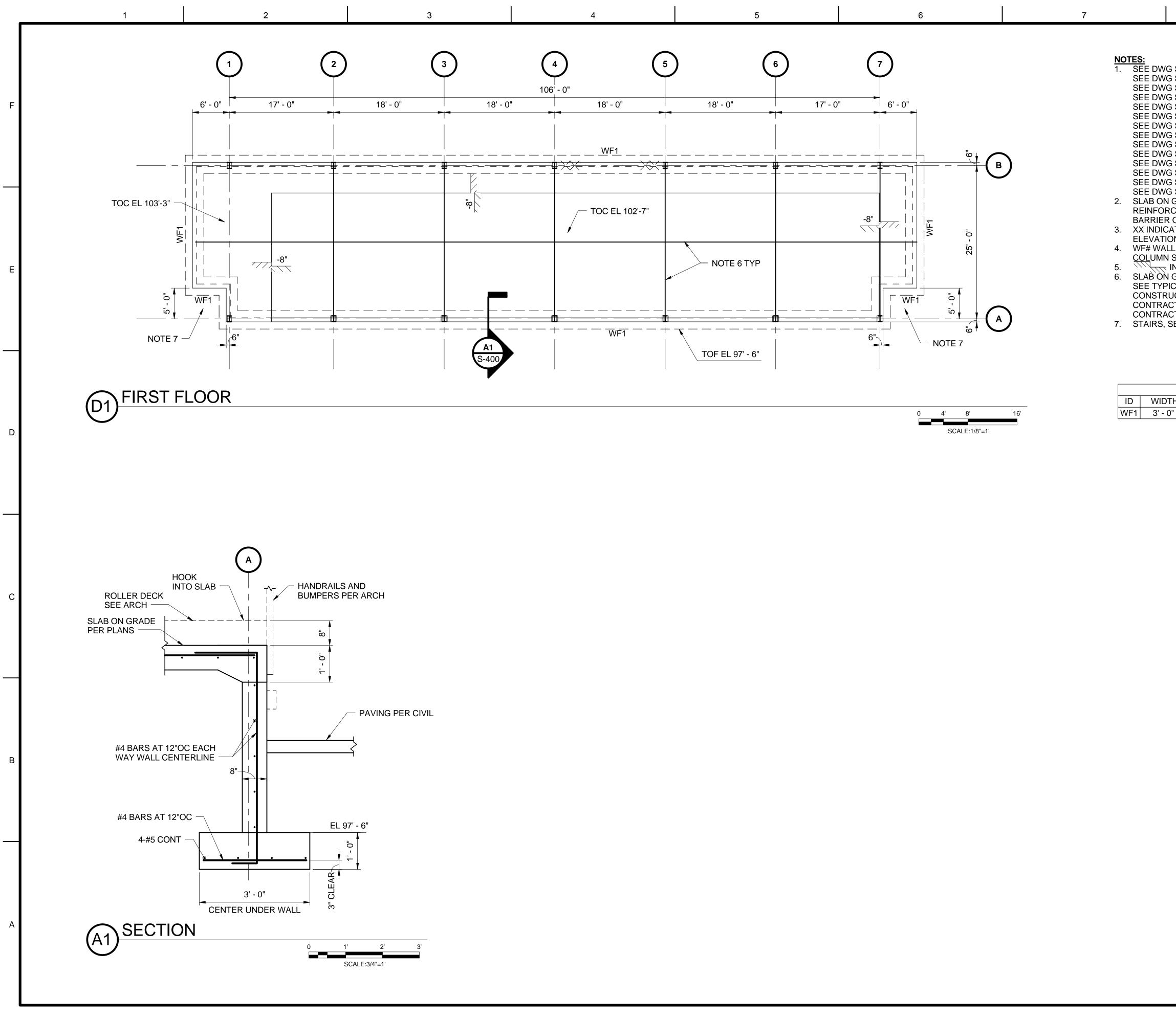
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DATE APPR.					
REVISIONS DESCRIPTION					
SYMBOL					
DATE: 4/17/2013	SCALE: 1/8" = 1'-0"	DRAWING CODE:	EP14S-202	4/17/2013	RCHITECT DATE
DESIGNED BY: B. BRETTMANN	DRAWN BY:	CHECKED BY:	ı	B. BRETTMANN	PROJECT ENGINEER/ARCHITECT DATE
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS	MOBILE, ALABAMA		BURDS & BURNS & MGDUNNEEL MAD MAD PARKWAY	INICUONNELL KANSAS CITY, MU 64114 since 1898 (816) 333-9400	8
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN	BASE X, CONUS		FRAMING ELEVATION		
	REF NU S-	MB	ENC ER:)2	_	



OF	ARM ¹ ENGI BILE	NEE	RS®		
REVISIONS					
SYMBOL					
DATE: 4/17/2013	SCALE: 3/4" = 1'.0"	DRAWING CODF.	EP14S-300	4/17/2013	CHITECT DATE
DESIGNED BY: B. BRETTMANN	DRAWN BY:	C. MUGEE CHECKED BY:		B. BRETTMANN	PROJECT ENGINEER/ARCHITECT DATE
U.S. ARMY ENGINEER DISTRICT	MOBILE, ALABAMA		BURNS & McDONNELL 9400 WARD PARKWAY	NICUONNEIL KANSAS CITY, MO 64114 SINCE 1898 (816) 333-9400	8
KC-46A FUSELAGE TRAINER	BASE X, CONUS		FOUNDATION DETAILS		
	REF NL S-	-3)	



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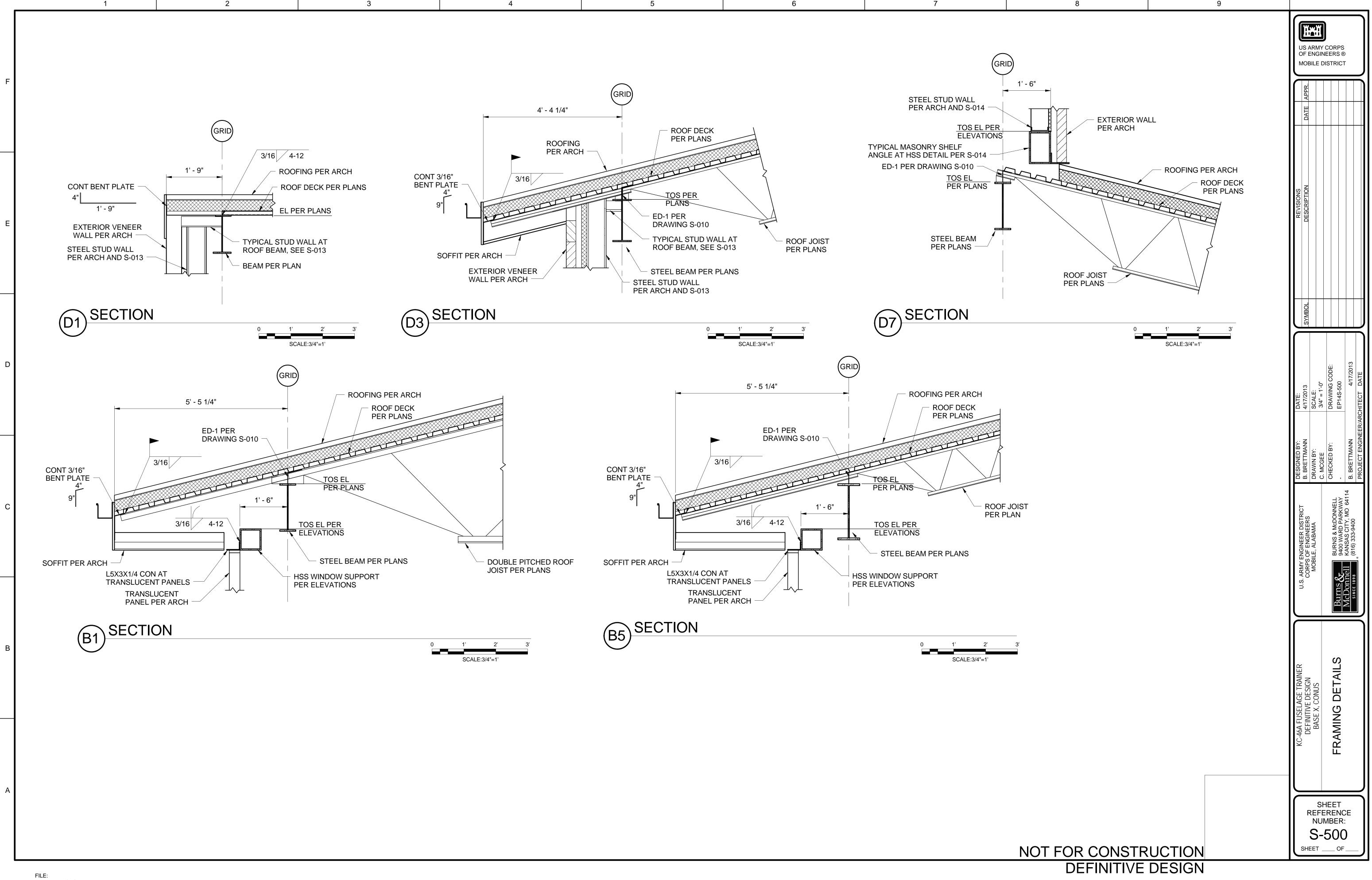
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	G S-003 FOR ABBREVIATIONS AND KEY, G S-004 FOR SPECIAL INSPECTION REQUIREMENTS, G S-005 FOR WIND AND SNOW ISO, G S-006 FOR TYPICAL FOUNDATION DETAILS, G S-007 FOR TYPICAL CONCRETE DETAILS, G S-008 FOR TYPICAL SLAB ON GRADE DETAILS, G S-009 FOR TYPICAL SLEEL FRAMING DETAILS, G S-009 FOR TYPICAL STEEL FRAMING DETAILS, G S-010 FOR TYPICAL STEEL FRAMING DETAILS, G S-010 FOR TYPICAL BIST DETAILS, G S-011 FOR TYPICAL ELEVATED SLAB DETAILS, G S-012 FOR TYPICAL BRACING DETAILS. G S-013 FOR TYPICAL METAL STUD DETAILS, G S-013 FOR TYPICAL MASONRY VENEER DETAILS, G S-015 FOR TYPICAL MASONRY VENEER DETAILS, G S-015 FOR TYPICAL ATFP WINDOW DETAILS. N GRADE SHALL BE 8 INCH THICK CONCRETE SLAB RCED WITH #4@12"OC EW ON 10 MIL VAPOR R ON 4 INCH THICK AGGREGATE BASE COURSE. CATES BRACES BAY LOCATIONS. SEE BUILDING IONS FOR GEOMETRY. LL FOOTING TYPE, SEE FOUNDATION SCHEDULE FOR N SCHEDULE THIS DWG. INDICATES ELEVATION CHANGE. N GRADE CONTROL JOINTS AND CONSTRUCTION JOINTS, PICAL DETAILS ON DWG S-006. SLAB ON GRADE RUCTION JOINT LAYOUTS TO BE DETERMINED BY THE ACTOR AND REVIEWED AND APPROVED BY THE ACTING OFFICER.	OF ENGIN MOBILE D NALA B U U U U U U U U U U U U U U U U U U	NEERS ®
	TH THICKNESS REINFORCING	SYMBOL	
NOT FOR CONSTRUCTION	<u>0 1-0 4-#3 CONT</u>	z	Z 7
SHEET REFERENCE NUMBER: S-400 SHEETOF		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	Rell **
NOT FOR CONSTRUCTION		KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	OUTDOOR CARGO SUPPORT FOUNDATION AND SLAB PLAN
		REFE NU S-	ERENCE MBER: 400



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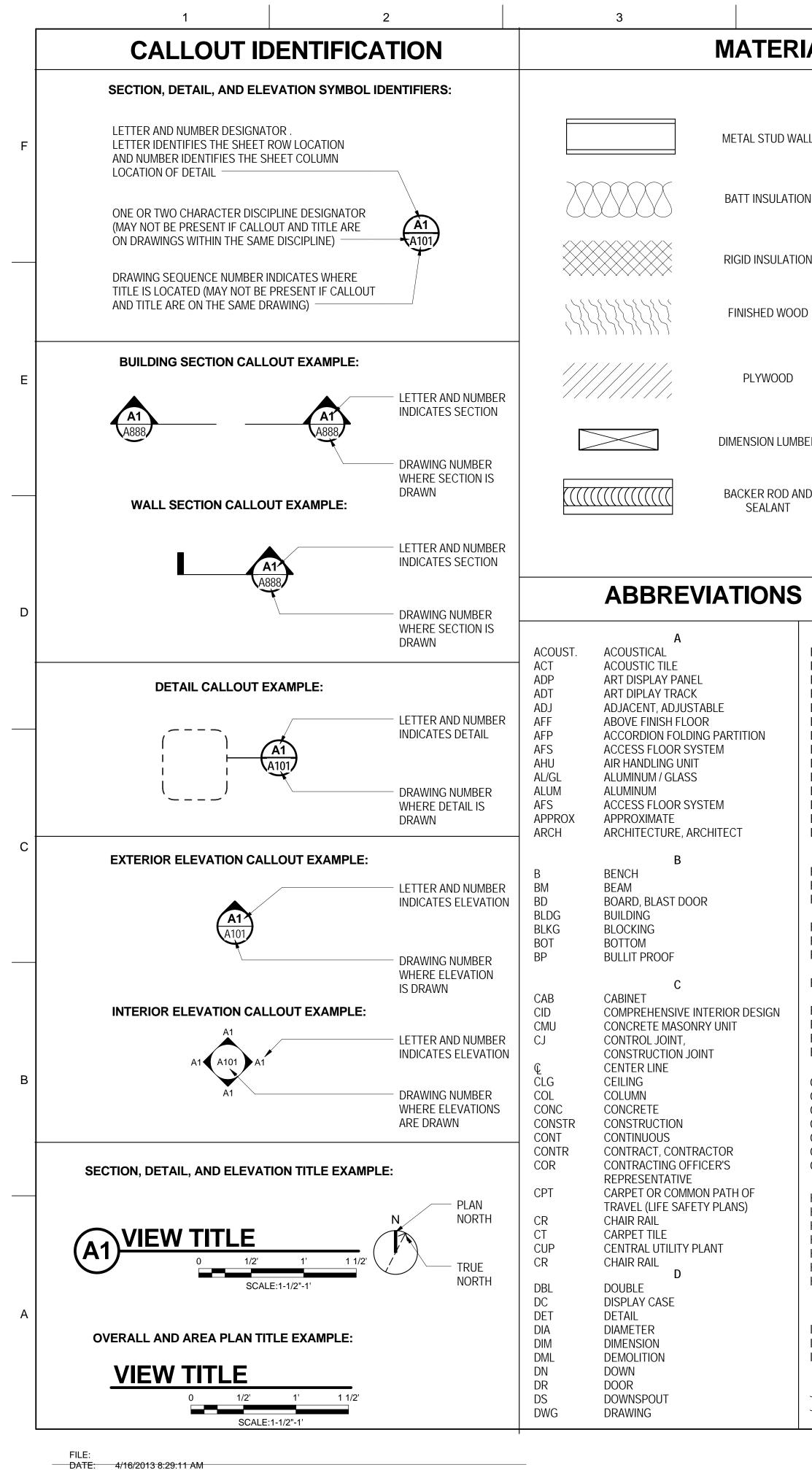
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RIAL	⁴ SYMBOLS	5		6	GENER	RAL
			_	E GENERAL NOTES SHALL APPLY TO ALL WORK A INGS IN THIS SET.	AND ALL	
VALL		CONCRETE MASONRY UNIT		ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND SAFETY PLAN AND LIFE SAFETY CRITERIA. THE CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO	COMPLY WITH ALL APPLICABLE CODES AND	17. A F 18. F
ΓΙΟΝ		CONCRETE		STANDARDS AS LISTED OR REFERENCED ON LIFE SAFETY PL. DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS SHALL GOVERN OVER SMALL SCALE DETAILS OR PLAN THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL AI ALARM SYSTEMS AND AUTOMATIC SPRINKLER SYSTEMS AS F ALL FLOORS SHALL BE INSPECTED FOR DAMAGE, WARPING O LEVELED PRIOR TO COVERING WITH FLOOR FINISHES, INSTAL	PLANS AND ELEVATIONS. LARGE SCALE DETAILS OR IS. LL EXIT SIGNS, EMERGENCY LIGHTING SYSTEMS, REQUIRED BY APPLICABLE CODES AND STANDARDS. OR OTHER NOTICEABLE DEVIATIONS AND PATCHED AND	19. (L 20. <i>F</i> <i>F</i> 21. F
TION		EARTH		AND INSTALLATION OF COLD-FORMED FRAMING IN THE ATTIC THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PF MAINTENANCE PROCEDURES AND SCHEDULES. ANY MANUFACTURER'S OR BRAND NAME PRODUCTS INDICAT	ROVIDING ALL MANUFACTURER'S RECOMMENDED	22. S A 23. S A 24. T
OOD		GRAVEL	8.	MINIMUM LEVEL OF QUALITY. ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUST MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCT SUBMIT A SIMILAR DETAIL FOR GUIDE AND APPROVAL. THE LETTERS I, O, AND Q ARE NOT USED TO INDICATE DETAIL	ION. IF A CONDITION IS NOT SPECIFICALLY DETAILED,	S T 25. A T 26. T
)		GROUT	10. 11.	PROVIDE PRESERVATIVE-TREATED WOOD AT ALL LOCATIONS CONCRETE OR MASONRY. PROVIDE 3/4" FIRE-RETARDANT TREATED PLYWOOD BACKING PANELS. PROVIDE FIRE-RESISTANT TREATED WOOD BLOCKING FOR SI RAILINGS, SUSPENDED ITEMS, DOOR-STOPS, GRAB-BARS, AN	WHERE WOOD IS IN DIRECT CONTACT WITH AT ALL ELECTRICAL, PHONE, AND SECURITY SYSTEM ECURE ANCHORAGE OF ALL SHELVES, RUNNING TRIM,	20. F F 27. T 28. F
MBER		STEEL		TIES, ACCESSORIES, FIXTURES, OR EQUIPMENT. PROVIDE CEMENT BOARD SHEATHING AT ALL AREAS WHERE WALL. PROVIDE WATER-RESISTANT GYPSUM BOARD AT ALL WET OR	R UNCONDITIONED AREAS INCLUDING, BUT NOT LIMITED	29. E 29. S
AND		GRATING		TO, PARTITIONS BEHIND SINKS. CONTRACTOR TO INSURE TH PAINT, STAIN, OR COAT ALL EXPOSED SURFACES OF CONSTR ARE PRE-FINISHED. ALL OPENING DIMENSIONS ARE NOMINAL. THE CONTRACTOR COORDINATE WITH THE APPROPRIATE SUPPLIER FOR ALL DO	RUCTION UNLESS NOTED OTHERWISE OR IF SURFACES	30. E <i>F</i>

-SEE ADDITIONAL FINISH MATERIAL ABBREVIATIONS IN THE MATERIAL LEGEND, ON ROOM FINISH SCHEDULE

		T				—
	F				C	
	E				S	1
EA	EACH		L	SCHED.	SCHEDULE	
EEWS	EMERGENCY EYEWASH & SHOWER	LAM	LAMINATE	SCIF	SENSITIVE COMPARTMENTED	
EF	EXHAUST FAN	LAV	LAVATORY		INFORMATION FACILITY	
EJ	EXPANSION JOINT	LBL	LABEL	SECT	SECTION	
		LVR	LOUVER			2
EL	ELEVATION			SHT	SHEET	
ELEV	ELEVATOR	LVR LP	LOUVER LOW POINT	SID	STRUCTURAL INTERIOR DESIGN	3
EQUIP	EQUIPMENT	LP	LOW POINT	SIM	SIMILAR	
EQ.	EQUAL			SPEC	SPECIFICATION	
ETC	AND SO FORTH (ETCETERA)		Μ	SPS	SYNTHETIC PANEL SYSTEM	
EWC	ELECTRIC WATER COOLER	MACH	MACHINE	SS	STAINLESS STEEL	
		MAINT	MAINTENANCE			
EXIST	EXISTING	MANUF	MANUFACTURE	SSMA	STEEL STUD MANUFACTURERS	
EXP	EXPANSION				ASSOCIATION	
EJ	EXPANSION JOINT	MAS	MASONRY		WWW.SSMA.COM	
EXT	EXTERIOR	MAX	MAXIMUM	STC	SOUND TRANSMISSION	
		MECH	MECHANICAL		COEFFICIENT	2
	F	MIN	MINIMUM			
FD	FLOOR DRAIN	MISC	MISCELLANEOUS	STL	STEEL	. 1
				STOR	STORAGE	5
FDN	FOUNDATION	MO	MASONRY OPENING	STRUC	STRUCTURAL	
FEB	FIRE EXTINGUISHER	M.R.	MIRRORED	SUPP.	SUPPORT	6
	& WALL BRACKET	MTD	MOUNTED	SUSP	SUSPENDED	
FEC	FIRE EXTINGUISHER CABINET	MTL	METAL		T	1
FFL	FINISH FLOOR LEVEL		···- ··· · ·			7
			Ν	TD	TRAVEL DISTANCE	
FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT	TECH	TECHNICAL	
	(WITH EXSTINGUISHER & BRACKET)	NGVD	NATIONAL GEODETIC	THK	THICK	
FHR	FIRE HOSE REEL	NOVD		THRU	THROUGH	8
	(WITH EXSTINGUISHER & BRACKET)		VERTICAL DATUM	TLT	TOILET	
FIN	FINISHED, FINISH	NO	NUMBER			9
FFEL	FINISHED FLOOR ELEVATION	NTS	NOT TO SCALE	T & B	TOP & BOTTOM	
				T.O.P.	TOP OF PARAPET	
FLR	FLOOR		0	T.O.S.	TOP OF STEEL	
FO	FACE OF	0.C.	ON CENTER	TYP	TYPICAL	
	G	O.D.	OUTSIDE DIAMETER			
GA	GAUGE	OFF	OFFICE		U	10
GALV	GALVANIZED			U.N.O.	UNLESS NOTED OTHERWISE	10
		OPP	OPPOSITE	UL	UNDERWRITERS LABORATORY	
GEJ	GUTTER EXPANSION JOINT	OPP. HD.	OPPOSITE HAND			
GL	GRADE LINE, GLASS	OPNG	OPENING		V	
GRTG	GRATING	OTS	OPEN TO STRUCTURE	VENT	VENTILATE, VENTILATOR	
GYP	GYPSUM			VERT	VERTICAL	
GYP BD	GYPSUM BOARD		Р			
		Р	PAINT (e.g. P-1)	VOL	VOLUME	
	Н	PTD	PAINT (e.g. F-T)			
HD	HAND				101	
HDWR	HARDWARE	PLAS. LAM.	PLASTIC LAMINATE		W	
HM	HOLLOW METAL	Ρ.	PLATE	W	WIDTH	
		PNL	PANEL	W/	WITH	
HORIZ	HORIZONTAL	PR	PAIR	WD	WOOD	
HP	HIGH POINT	PLYWD	PLYWOOD	WT	WEIGHT	
HT.	HEIGHT					
HVAC	HEATING, VENTILATION & AIR		R			
	CONDITIONING	R OR RAD	RADIUS			
	CONDITIONING	RA	RETURN AIR			
	I					
I.D.	INSIDE DIAMETER	RCP	REFLECTIVE CEILING PLAN			
INSUL	INSULATION	RD	ROOF DRAIN			
INT	INTERIOR	RE:	REFERENCE			
		RECP	RECEPTACLE			
	I	REG	REGULAR			
	JANITOR'S CLOSET	REINF	REINFORCED			
JC						
JT	JOINT	REQ'D	REQUIRED			
		RGH	ROUGH			

_ NOTES

- ALL CONDUITS, PLUMBING, PIPING, DUCTWORK, AND OTHER EQUIPMENT EXPOSED TO VIEW SHALL BE LOCATED PARALLEL OR PERPENDICULAR TO THE STRUCTURAL FRAMING SYSTEM.
- PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS, WHERE REQUIRED.
- CERAMIC TILE TO BE INSTALLED UP TO 4'-0" ABOVE FINISH FLOOR AND 1'-0" TO EITHER SIDE AT ALL MOP SINK LOCATIONS. EXTENT OF TILE VARIES BY LOCATION.
- ARCHITECTURAL DETAILS ARE APPLICABLE WHERE INDICATED BY SECTION CUT, BY NOTE, OR BY DETAIL TITLE. PROVIDE SIMILAR DETAILS AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY REQUEST A CLARIFICATION IF REQUIRED, OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL. PROVIDE FIRE-STOPPING SYSTEMS AT TOP OF AND AT ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS.
- SEAL ALL EXTERIOR BUILDING JOINTS AT BOTH THE EXTERIOR AND INTERIOR SURFACES AGAINST MOISTURE AND AIR INFILTRATION. SEAL AROUND ALL DOOR AND WINDOW FRAMES, COUNTERTOPS, WALL-MOUNTED FIXTURES AND EQUIPMENT TO
- ADJACENT WALL SURFACES. THE CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED
- TO ENSURE EASE OF INSTALLATION. ALL WORK MUST BE OF GOOD QUALITY, FREE FROM DEFECTS, AND IN ACCORDANCE WITH THE REQUIREMENTS OF
- THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PENETRATIONS IN THE STRUCTURE FOR THE PROPER INSTALLATION OF THE WORK. REFER TO STRUCTURAL DRAWING FOR SECONDARY FRAMING AND OR
- REINFORCING REQUIRED AT PENETRATIONS IN STEEL, CONCRETE OR MASONRY. THE CONTRACTOR SHALL PROVIDE ACCESS DOORS OR PANELS AS REQUIRED FOR SERVICING OF PIPING.
- DUCTWORK, CABLE TRAYS, FIRE DAMPERS AND SIMILAR APPLICATIONS. ALL PROPOSED ACCESS DOOR LOCATIONS TO BE SUBMITTED FOR APPROVAL TO USCOE PRIOR TO INSTALLATION. PROVIDE ALL HVAC, PLUMBING, GAS OR ELECTRIC SERVICE CONNECTIONS TO CASEWORK, FIXTURES, SIGNAGE, OR
- EQUIPMENT INDICATED (WHETHER UNITS ARE INSTALLED BY CONTRACTOR OR BY OTHERS). BRACE PARTITIONS, SUSPENDED CEILINGS, SOFFITS, SUSPENDED ITEMS, ETC. ONLY TO STRUCTURAL ELEMENTS ABOVE. DO NOT ANCHOR TO ROOF DECK, PLUMBING / SPRINKLER PIPES, DUCTWORK, ELECTRICAL CONDUIT OR
- SIMILAR ELEMENTS. EXTEND ALL FLOORING AND WALL-BASE COMPLETELY INTO RECESSES, UNDER OPEN COUNTERTOPS, AND BEHIND ALL EQUIPMENT.

DEFINITIVE DESIGN NOTES

1. THIS DEFINITIVE DESIGN STANDARD IS TO DESIGN A NON-SITE SPECIFIC PROTOTYPICAL KC-46A TRAINING FACILITY THAT IS VERSATILE ENOUGH BE SITE ADAPTED AT ANY AIR FORCE, AIR GUARD, OR AIR RESERVE INSTALLATION ACROSS THE UNITED STATES.

2. THIS DEFINITIVE DESIGN STANDARD IS BASED ON THE AVAILABLE UFC'S DESIGN CRITERIA AS OF MARCH 2013.

3. ALL BUILDING SYSTEMS AND COMPONENTS SHALL BE REVIEWED AGAINST THE LOCAL CLIMATE, LOCAL BUILDING CODES AND ANY OTHER SPECIAL REQUIREMENTS UPON SITE SELECTION. SOME EXAMPLES OF BUILDING SYSTEMS INCLUDE R-VALUE OF INSULATION, VAPOR BARRIER LOCATION, NECESSITY OF PERIMETER INSULATION BELOW GRADE, GUTTER AND DOWNSPOUT DESIGN, STORM WATER DISCHARGE, SNOW GUARDS ON ROOF, AND EXTERIOR GLAZING LAY- UP. REFERENCE THE DRAWINGS, SPECIFICATIONS AND DESIGN NARRATIVE FOR FURTHER DIRECTION.

4. THE EXTERIOR WALL SYSTEM SHALL BE REVIEWED TO MEET "DOD MINIMU ANTITERRORISM STANDARDS FOR BUILDINGS" UPON SITE SELECTION. 5. THE NECESSITY OF A FIRE PUMP ROOM AND THE SIZE OF THE ROOM SHAI

BE REVIEWED AND REVISED UPON SITE SELECTION. 6. THE MECHANICAL YARD SCREEN WALL DESIGN AND LOCATION SHALL BE CONFIRMED UPON SITE SECTION.

7. THE ARCHITECTURAL DESIGN AND EXTERIOR WALL MATERIAL SHALL BE REVIEWED AGAINST THE SELECTED SITE "DESIGN STANDARD" AND NEIGHBORING FACILITIES.

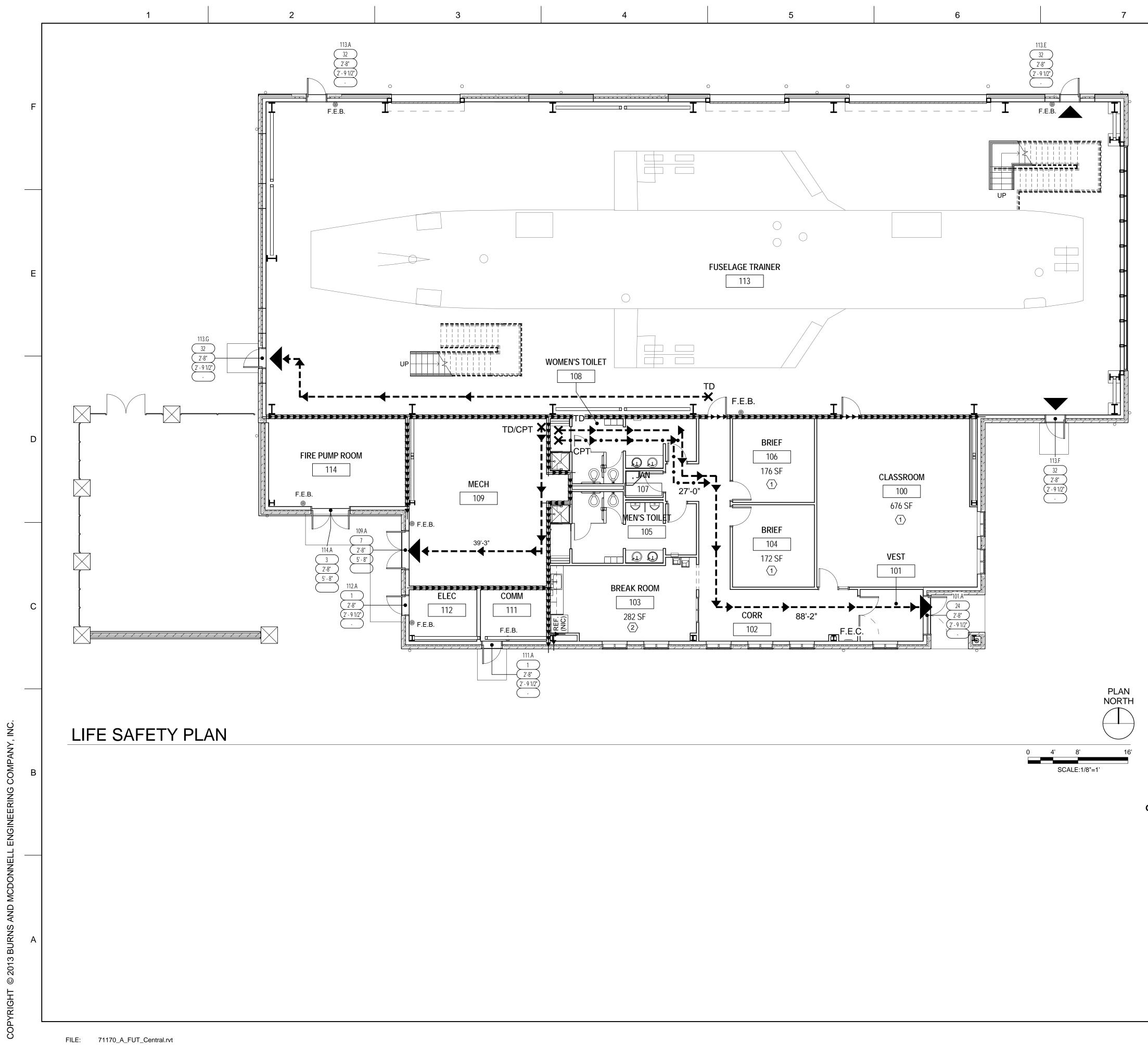
8. THE BUILDING SECURITY SYSTEM, INCLUDING DOOR HARDWARE SHALL BI **REVIEWED WITH THE SELECTED SITE SECURITY REQUIREMENTS.** 9. THE FINAL SPECIFICATION OF INTERIOR BUILDING FINISHES WILL BE

REVIEWED AND ALIGNED WITH THE SELECTED SITE DESIGN THEME. FURNITURE LAYOUTS HAVE BEEN PROVIDED FOR INFORMATION AND SHA BE VERIFIED. FINAL SELECTION OF FF&E AND DETAILED SPECIFICATIONS SHALL BE REVIEWED UPON SITE SELECTION.

10. REFERENCE THE DESIGN NARRATIVE FOR MORE INFORMATION.

NOT FOR CONSTRUCTION **DEFINITIVE DESIGN**

	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
	DATE APPR.
	DESCRIPTION
	SYMBOL
го	DATE: 4/17/2013 SCALE: 1" = 1'-0" DRAWING CODE: EP14A-001 4/17/2013 A/17/2013 CHITECT DATE
т ,	DESIGNED BY:DATE:TJ KIMA17/2013LM KIM4/17/2013DRAWN BY:A/17/2013M. POLLMANN1" = 1'-0"M. POLLMANN1" = 1'-0"M. POLLMANN1" = 1'-0"M. POLLMANN1" = 1'-0"TJ KIMEP14A-001TJ KIMEP14A-001TJ KIM4/17/2PROJECT ENGINEER/ARCHITECTDATE
UM .LL	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BURNS & MCDONNELL 9400 WARD PARKWAY MONELL KANSAS CITY, MO 64114 (816) 333-9400
ε	U.S. A C.C. Burns & McDonne since 1898
	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS ARCHITECTURAL LEGEND/ ABBREVIATIONS & GENERAL NOTES
	SHEET REFERENCE NUMBER: A-001



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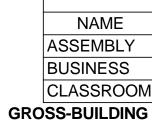
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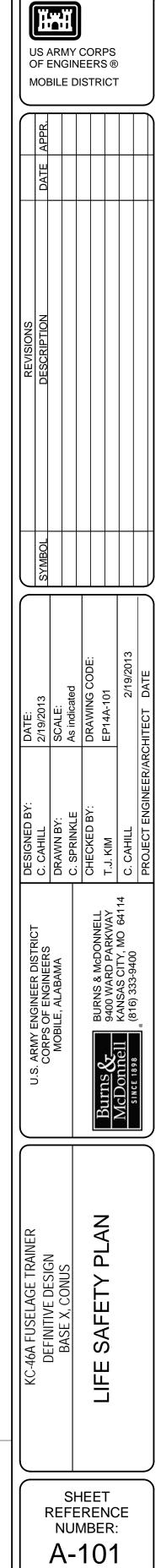
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<u>LIFE SAFETY LE</u>	<u>GEND</u>	
Room name	ROOM NAME	
101 150 SF -	AREA	
	DOOR NUMBER NUMBER OF OCCUPANTS	
	PROVIDED WIDTH	
	DOOR RATING	
CPT _(xx ' - xx")	COMMON PATH OF TRAVEL	
	DISTANCE	
X +	EXIT ACCESS TRAVEL DISTANCE	
	DISTANCE	
	EXIT DOOR WITH EXIT	
•	SIGN	
	SMOKE PARTITION	
	– 1 HR RATED FIRE	
	BARRIER	
\otimes	FIRE EXTINGUISHER	
F.E.B.	CLASS 4A:10B:C ON MOUNTING BRACKET	
	FIRE EXTINGUISHER	
F.E.C.	CLASS 4A:10B:C IN	
F.E.U.	SEMI-RECESSED CABINET	
DCCUPANT LOAD PER	NFPA 101	
THIS BUILDING IS CI	ASSIFIED AS A 'B - BUSINESS' OCCUI PERSON SHALL BE APPLIED, U.N.O.	ANT

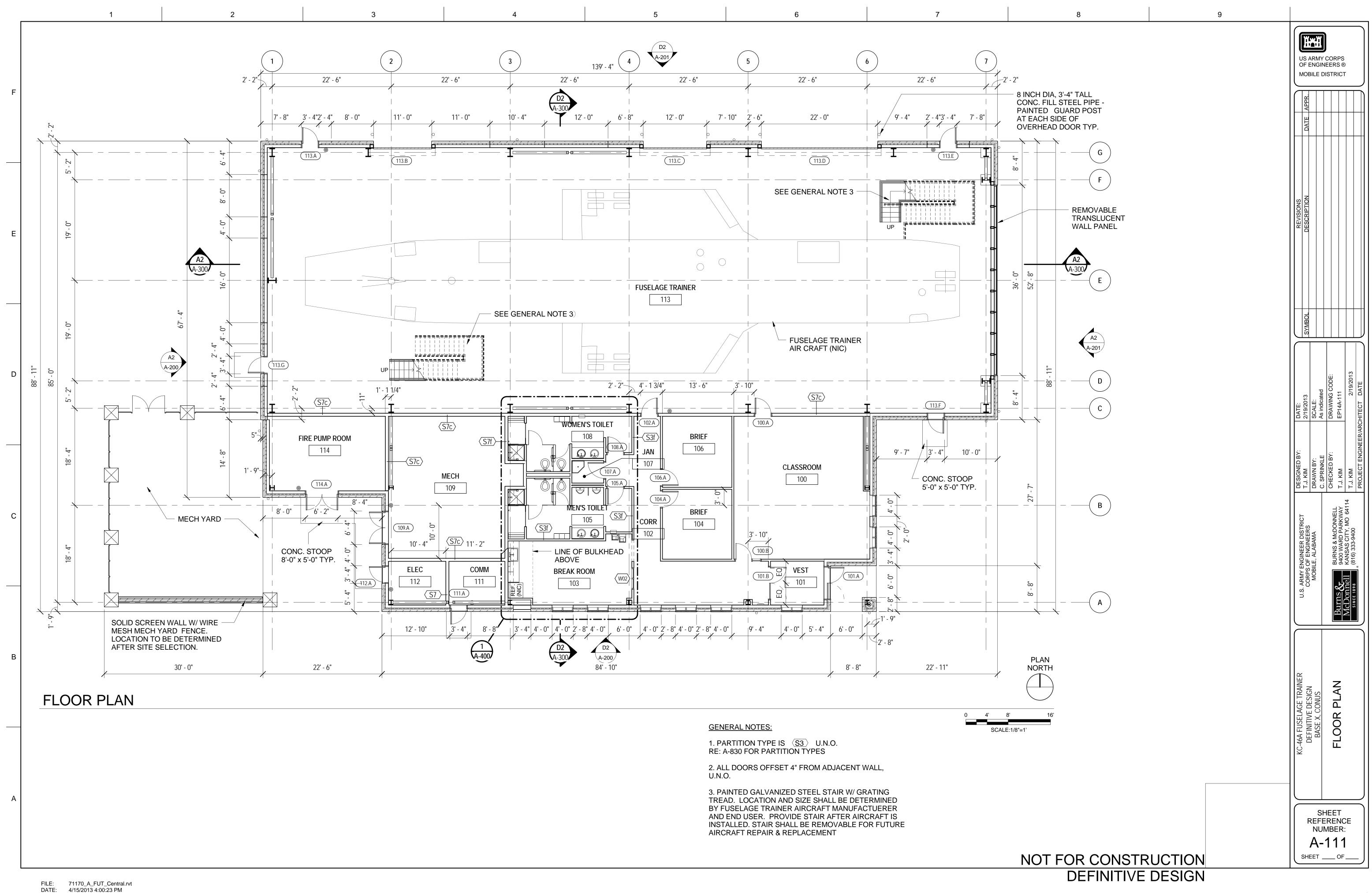
3. 2 OCCUPANT LOAD CALCULATED AT 15 SQ.FT. PER PERSON

	OCCUPANT LOAD-LEVEL 01					
	AREA	LOAD FACTOR SF/PERSON	NO. OF OCCUPANTS			
(282 SF	15	19			
	9684 SF	100	96			
DM	1042 SF	20	52			
١G	11008 SF		TOTAL OCCUPANTS 167			

NOT FOR CONSTRUCTION DEFINITIVE DESIGN



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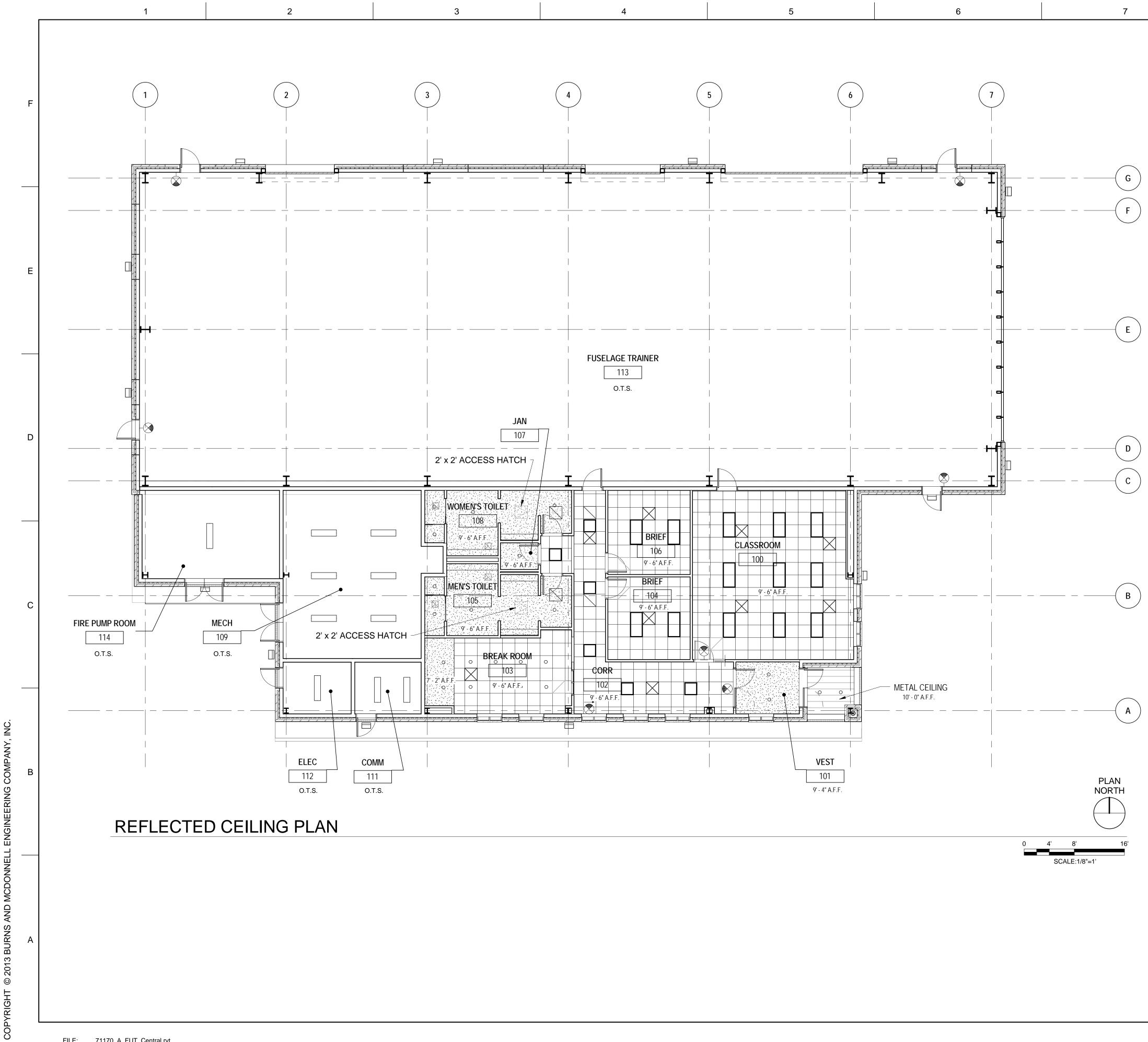
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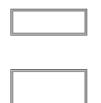
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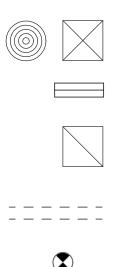
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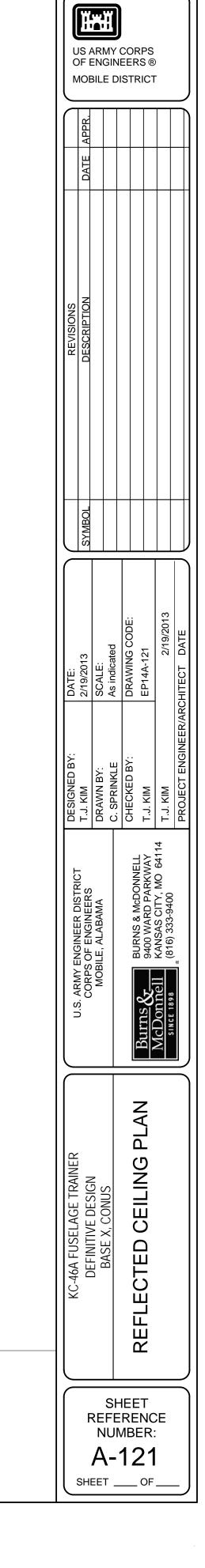


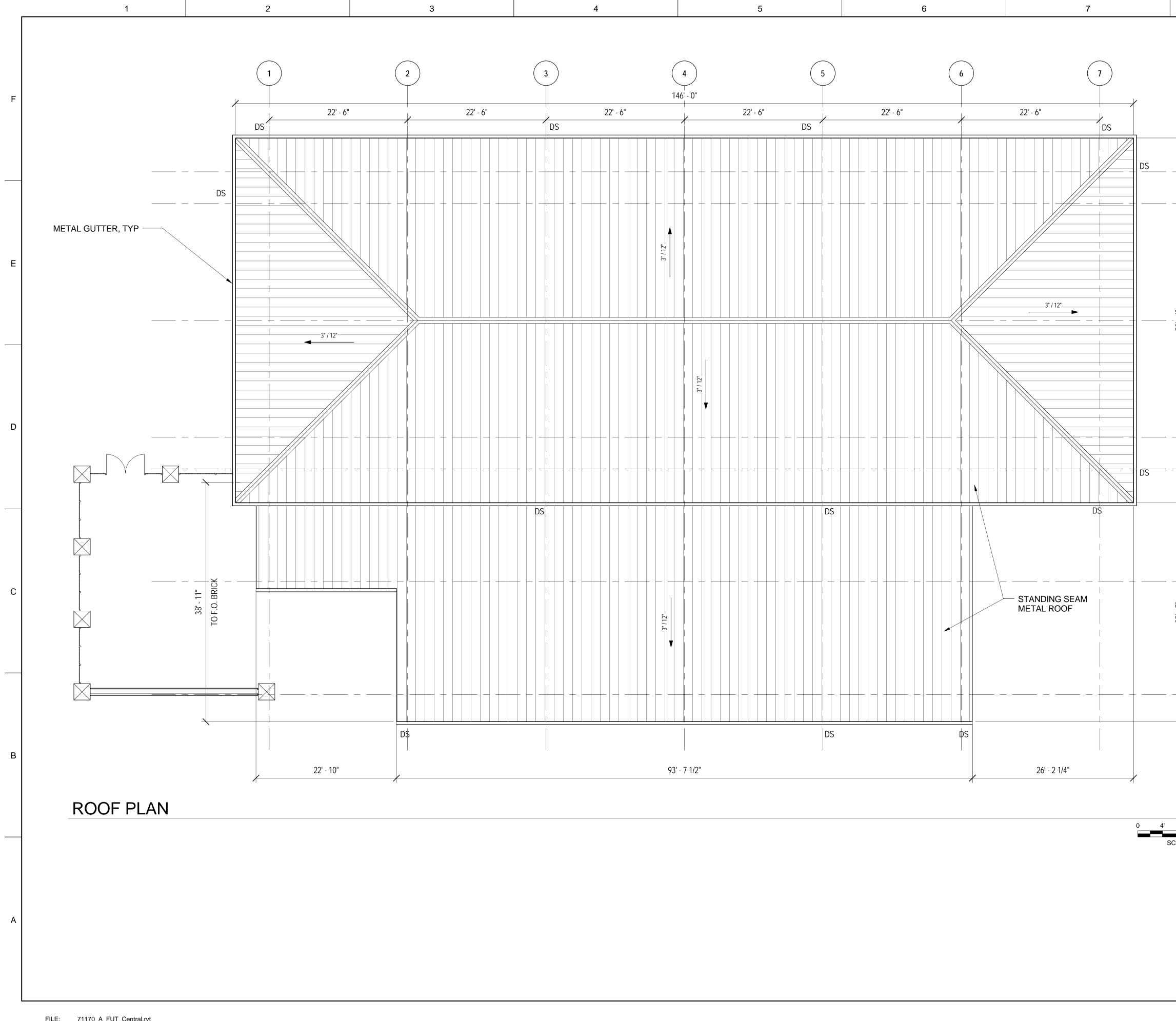






2' x 2' ACOUSTICAL CEILING TILE **GYPSUM BOARD CEILING - PAINT OPEN TO STRUCTURE - PAINTED** METAIL CEILING STRUCTURAL STEEL BEAM 1' x 4' FLUORESCENT FIXTURE - SUSPENDED 1' x 4' FLUORESCENT FIXTURE - RECESSED 2' x 4' FLUORESCENT FIXTURE - RECESSED RECESSED LIGHT CEILING HEIGHT ABOVE FINISH FLOOR HVAC AIR SUPPLY GRILLE HVAC LINEAR AIR SUPPLY GRILLE HVAC EXHAUST OR RETURN GRILLE CABLE TRAY EXIT SIGN





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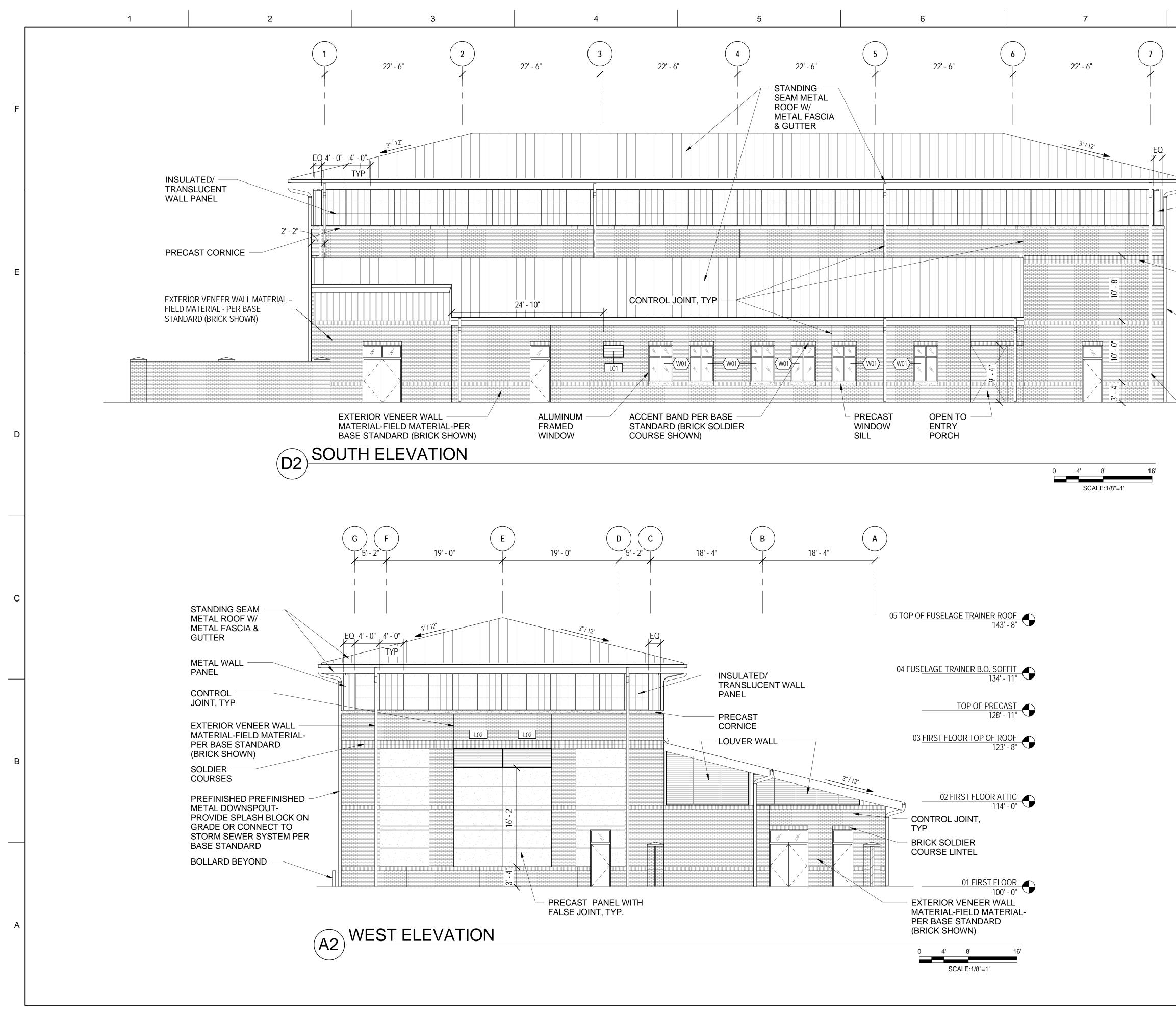
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				OF	ENGIN BILE D		0	
		- G F		REVISIONS				
59' - 4"		E						
	19' - 0"							
				DATE: 2/19/2013	SCALE: 1/8" = 1'-0"	DRAWING CODE: EP14A-130		ER/ARCHITECT DATE
X	18' - 4"			DESIGNED BY: T.J. KIM	DRAWN BY: C. SPRINKLE			PROJECT ENGINEER/ARCHITECT
35' - 7"	18' - 4"	—(B)		U.S. ARMY ENGINEER DISTRICT	MOBILE, ALABAMA	BURNS & MCDONNELL 9400 WARD PARKWAY		8
		— (A)				Burns &	MCDONNE SINCE 1898	
8' SCALE:1	N 16' /8"=1'			KC-46A FUSELAGE TRAINER	DEFINITIVE DESIGN BASE X, CONUS	ROOF PLAN		
N		OR CONSTR DEFINITIVE			REFE NUI A-	HEET REN(MBER 13(OF	:)	



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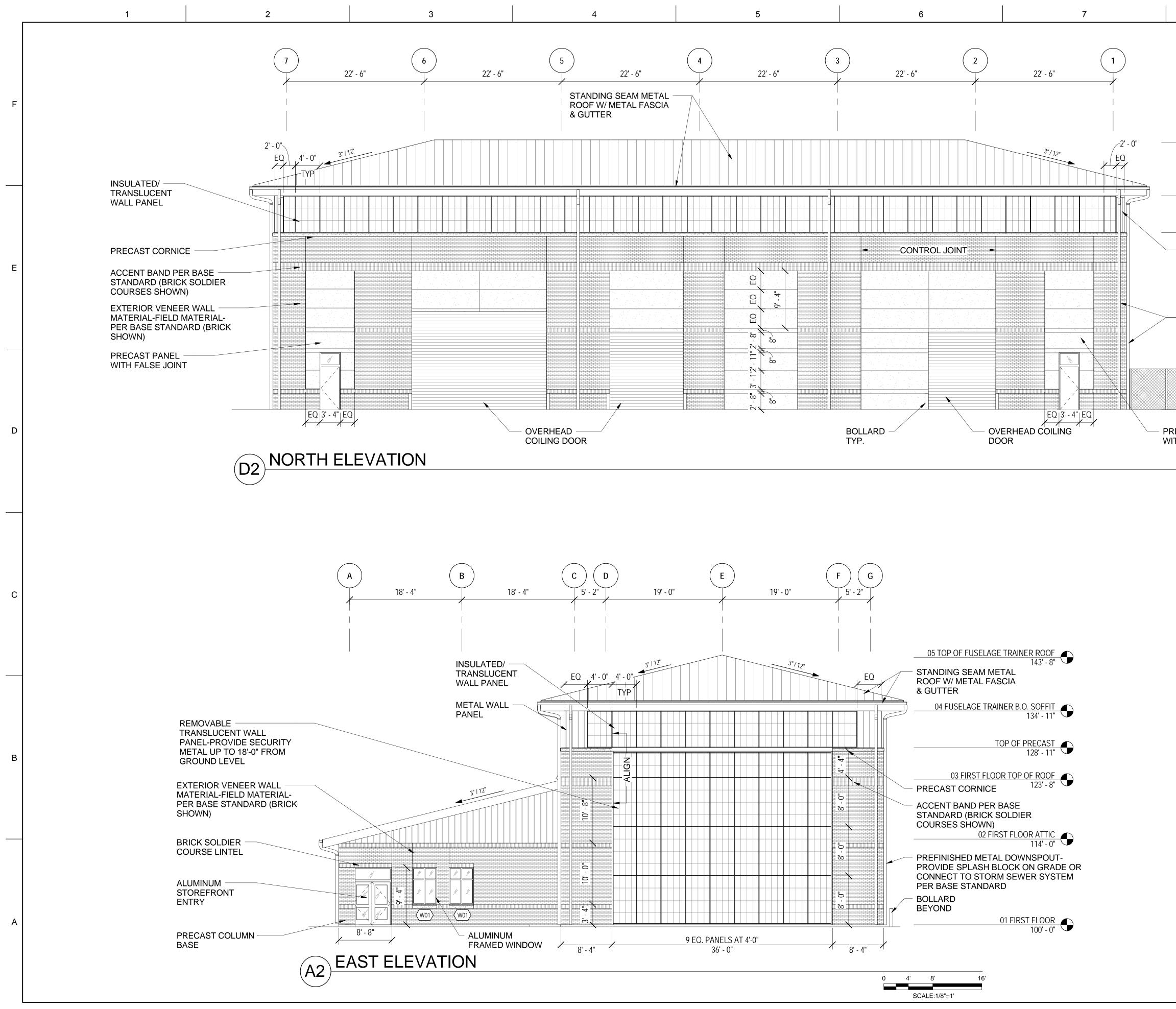
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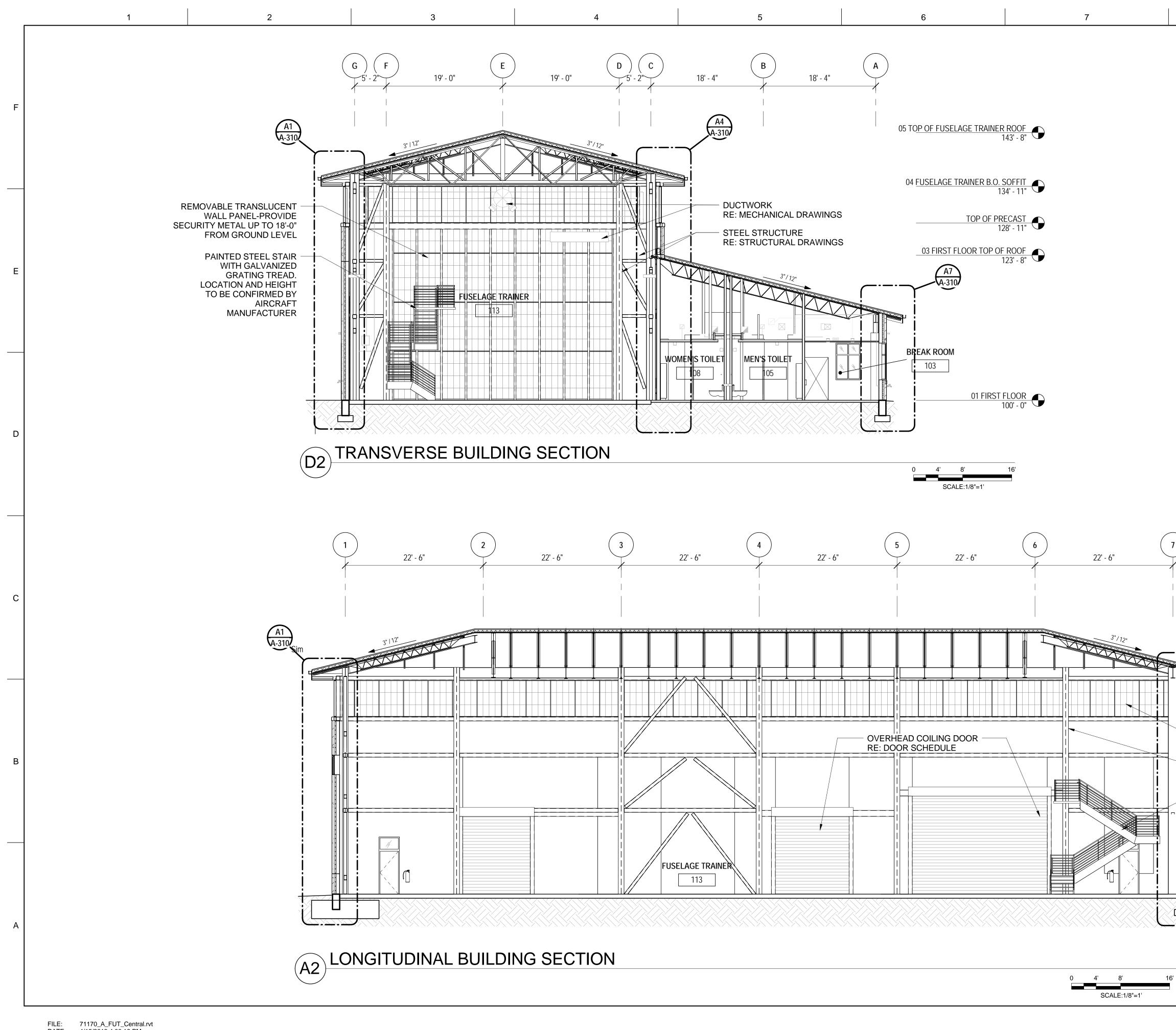
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			OF	ENGIN	CORPS EERS (ISTRIC	ર	
05 TOP OF FUSELAGE TRAINER 1 14	ROOF 43' - 8"		DATE APPR.				
04 FUSELAGE TRAINER B.O. Si 134 METAL WALL PANEL TOP OF PRE 128 03 FIRST FLOOR TOP OF I 12 ACCENT BAND PER BASE STANDARD (BRICK SOLD) COURSES SHOWN) 02 FIRST FLOOR 11 PREFINISHED PREFINISH METAL DOWNSPOUT-PRO SPLASH BLOCK ON GRAE CONNECT TO STORM SEV SYSTEM PER BASE STAN 01 FIRST FLOO 01 FIRST FLOO 01 FIRST FLOO 01 FIRST FLOO 01 FIRST FLOO 01 FIRST FLOO 10 01 FIRST FLOO 01 FIRST FLO	$\frac{CAST}{3' - 11''} \textcircled$		3 SYMBOL REVISIONS		IG CODE:	2/19/2013	DATE
			U.S. ARMY ENGINEER DISTRICT DESIGNED BY: DATE: CORPS OF ENGINEERS T.J. KIM 2/19/2013		BURNS & McDONNELL 9400 WARD PARKWAY	(816) 333-9400 64114 T.J. KIM	PROJECT ENGINEER/ARCHITECT
			KC-46A FUSELAGE TRAINER	BASE X, CONUS	EXTERIOR BUILDING	ELEVATIONS	
NOT FOR CONST DEFINITIVE				REFE NUM A-2	IEET REN(ИВЕR 20(:)	



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		OF	ARMY ENGIN PBILE D	EERS	R	
05 TOP OF FUSELAGE TRAINER ROOF 143' - 8"						
04 FUSELAGE TRAINER B.O. SOFFIT 134' - 11"						
TOP OF PRECAST 128' - 11" METAL WALL PANEL		REVISIONS				
PREFINISHED METAL DOWNSPOUT- PROVIDE SPLASH BLOCK ON GRADE OR CONNECT TO STORM SEWER SYSTEM PER BASE STANDARD			, ,			
01 FIRST FLOOR 100' - 0"						
PRECAST PANEL WITH FALSE JOINT		DATE: 2/19/2013	SCALE: 1/8" = 1'-0"	DRAWING CODE: EP14A-201	2/19/2013	ARCHITECT DATE
		DESIGNED BY:	DRAWN BY: C. SPRINKLE			PROJECT ENGINEER/ARCHITECT
		U.S. ARMY ENGINEER DISTRICT	MOBILE, ALABAMA		McDonnell Kansas City, MO 64114 (16) 333-9400	
		KC-46A FUSELAGE TRAINER	DEFINITIVE DESIGN BASE X, CONUS	EXTERIOR BUILDING	ELEVATIONS	
NOT FOR CONSTRUCTION			REFE	ивер 20	CE R: 1	
DEFINITIVE DESIGN						



FILE: 71170_A_FUT_Central.rvt DATE: 4/15/2013 4:00:19 PM

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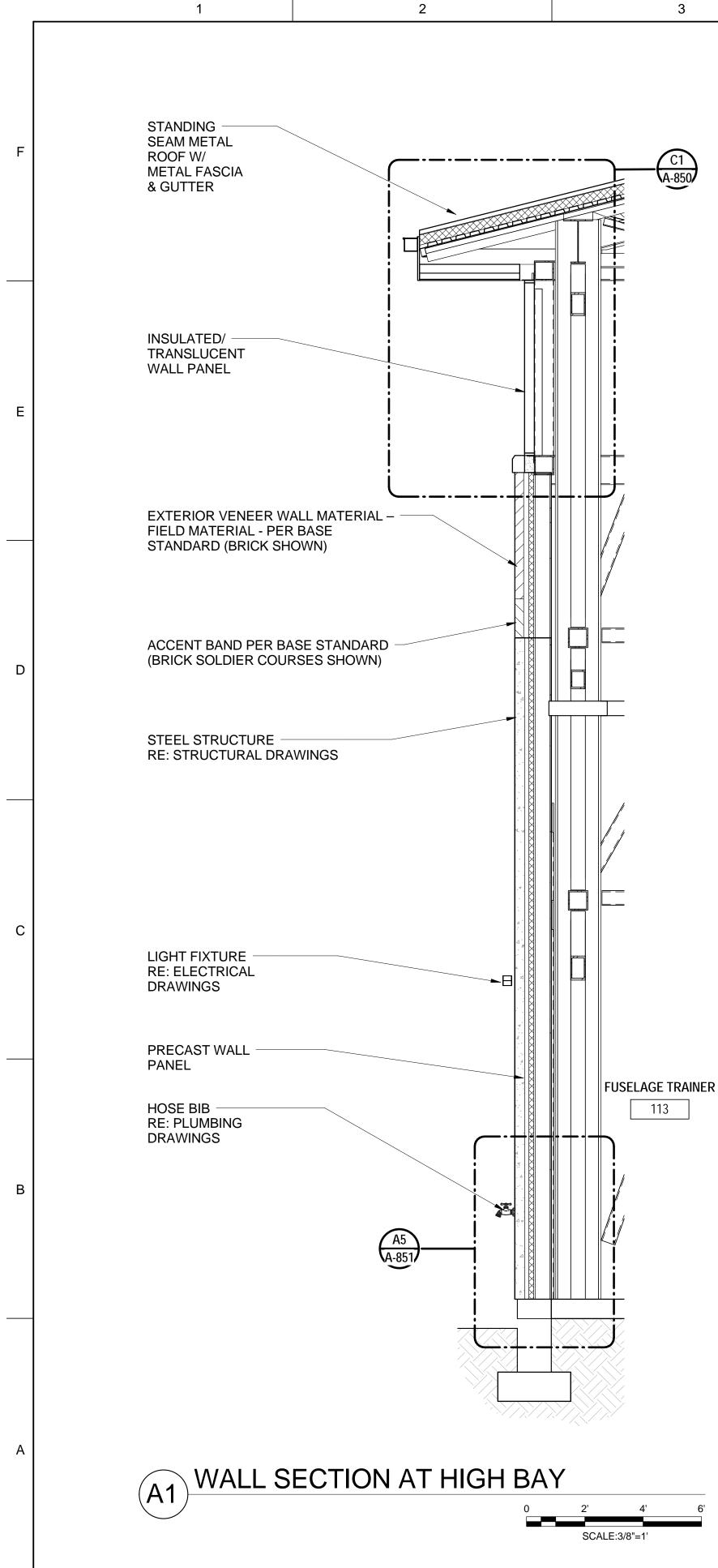
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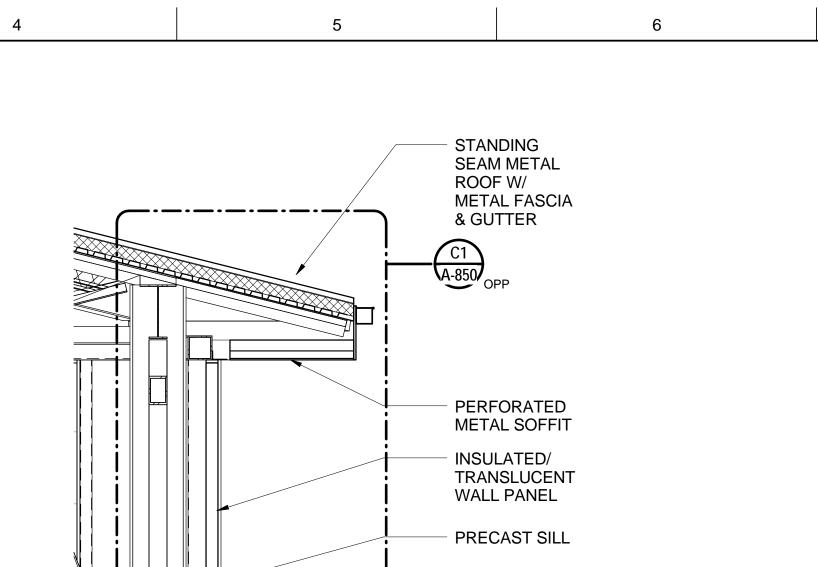
	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
	DATE APPR.
	REVISIONS DESCRIPTION
	SVMBOL
	DATE: DATE: 2/19/2013 SCALE: 1/8" = 1'-0" DRAWING CODE: EP14A-300 2/19/2013 2/19/2013 ER/ARCHITECT DATE
	DESIGNED BY:DATE:T.J. KIM2/19/20T.J. KIM2/19/20DRAWN BY:2/19/20C. SPRINKLE1/8" = -C. SPRINKLE1/8" = -CHECKED BY:DRAWIT.J. KIMEP14AT.J. KIMT.J. KIMPROJECT ENGINEER/ARCHITECT
05 TOP OF FUSELAGE TRAINER ROOF 143' - 8" A-310 SOPP 04 FUSELAGE TRAINER B.O. SOFFIT 134' - 11" TOP OF PRECAST 128' - 11" TRANSLUCENT/INSULATED	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA MOBILE, ALABAMA BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400
WALL PANEL WALL PANEL STEEL STRUCTURE RE: STRUCTURAL DRAWINGS PAINTED STEEL STAIR WITH GALVANIZED GRATING TREAD. LOCATION AND HEIGHT TO BE CONFIRMED BY AIRCRAFT MANUFACTURER 01 FIRST FLOOR 100'-0"	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS BUILDING SECTIONS
¹⁶ NOT FOR CONSTRUCTION DEFINITIVE DESIGN	SHEET REFERENCE NUMBER: A-300 SHEETOF

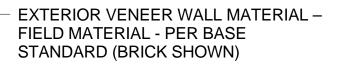
DEFINITIVE DESIGN



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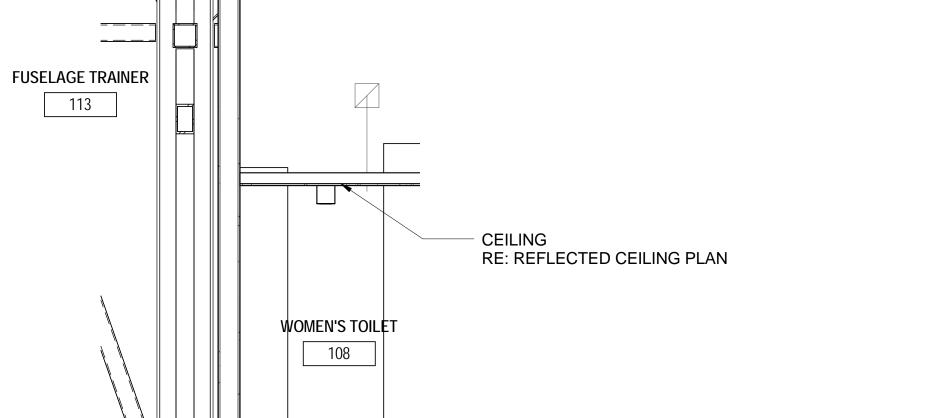
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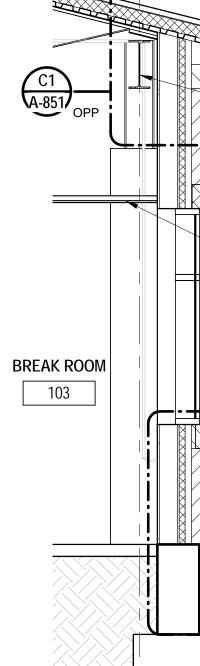




STANDING SEAM METAL ROOF W/ METAL FASCIA & GUTTER

- STEEL STRUCTURE RE: STRUCTURAL DRAWINGS



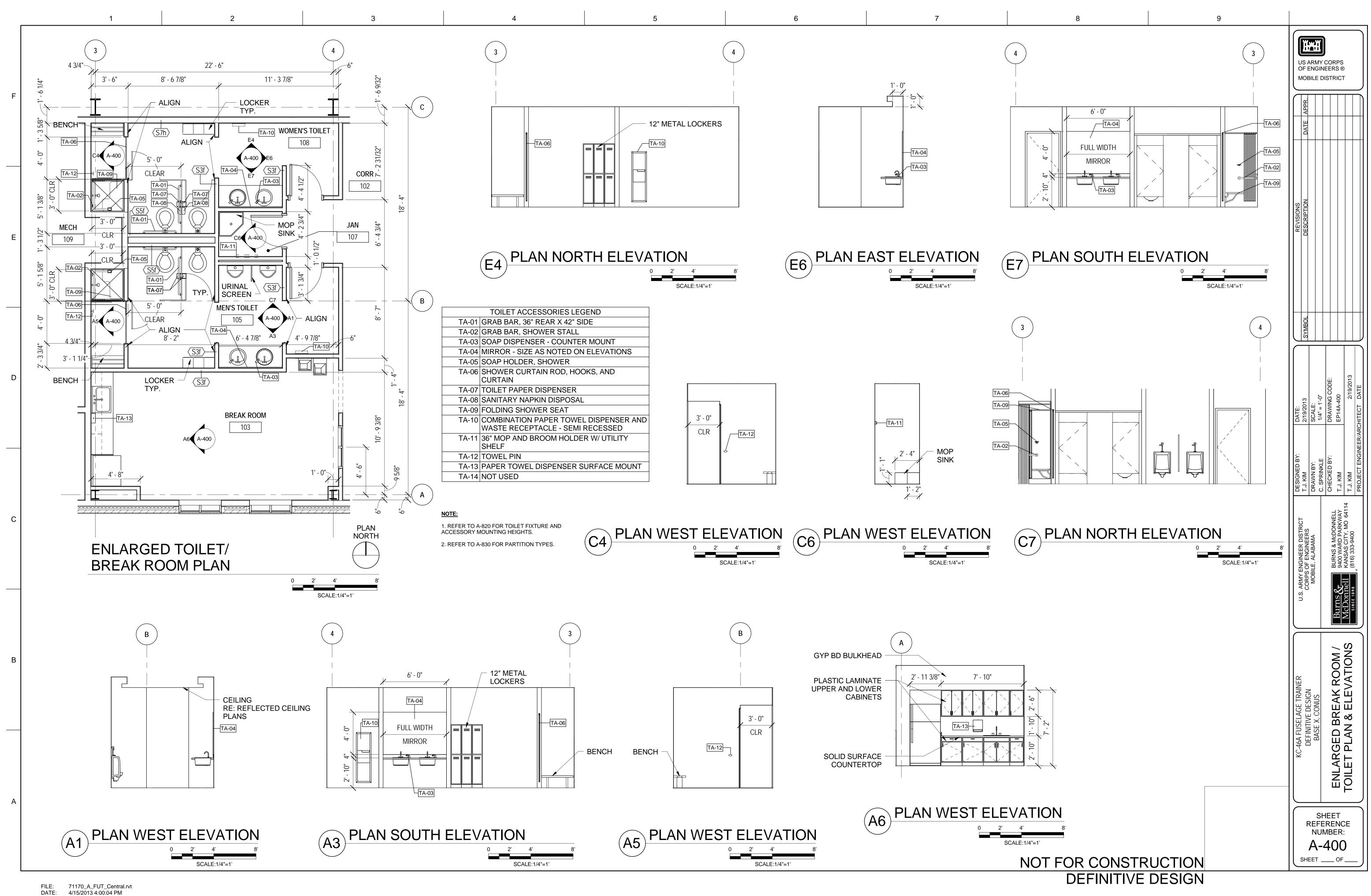


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			US ARMY OF ENGIN MOBILE D	EERS®
			REVISIONS DESCRIPTION	
			13 -0"	EP14A-310 2/19/2013 LTECT DATE
META META GUTT	DING SEAM L ROOF W/ L FASCIA & ER <u>FIRST FLOOR ATTIC</u> 114' - 0"		DESIGNED BY: DATE: T.J. KIM 2/19/2013 DRAWN BY: SCALE: C. SPRINKLE 3/8" = 1'-0"	CHECKED BY: T.J. KIM T.J. KIM PROJECT ENGINEER/ARCH
STEE RE: S LIGH RE: E SOLD HEAD CEILI RE: R CEILI	L STRUCTURE TRUCTURAL DRAWINGS FIXTURE LECTRICAL DRAWINGS IER COURSE ER	4	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	BURNS & MCDONNELL BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 81NCE 1898 (816) 333-9400
1" INS	SULATED GLASS AST SILL 01 FIRST FLOOR 100' - 0"		KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	WALL SECTIONS
	ROOF 2' 4' 6' SCALE:3/8"=1' NSTRUCTION ITIVE DESIGN		REFE NUN	HEET RENCE MBER: 310



DATE:

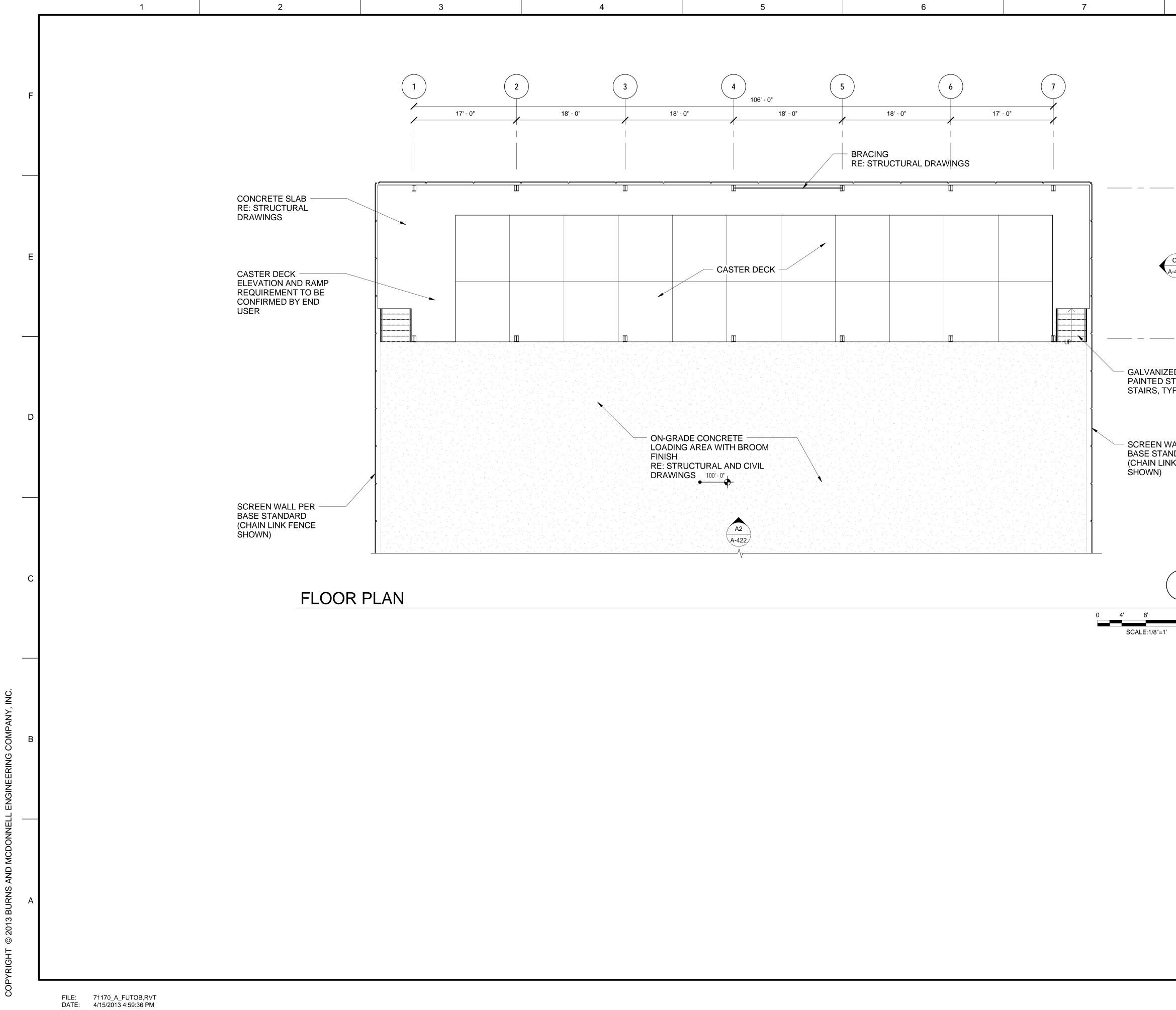
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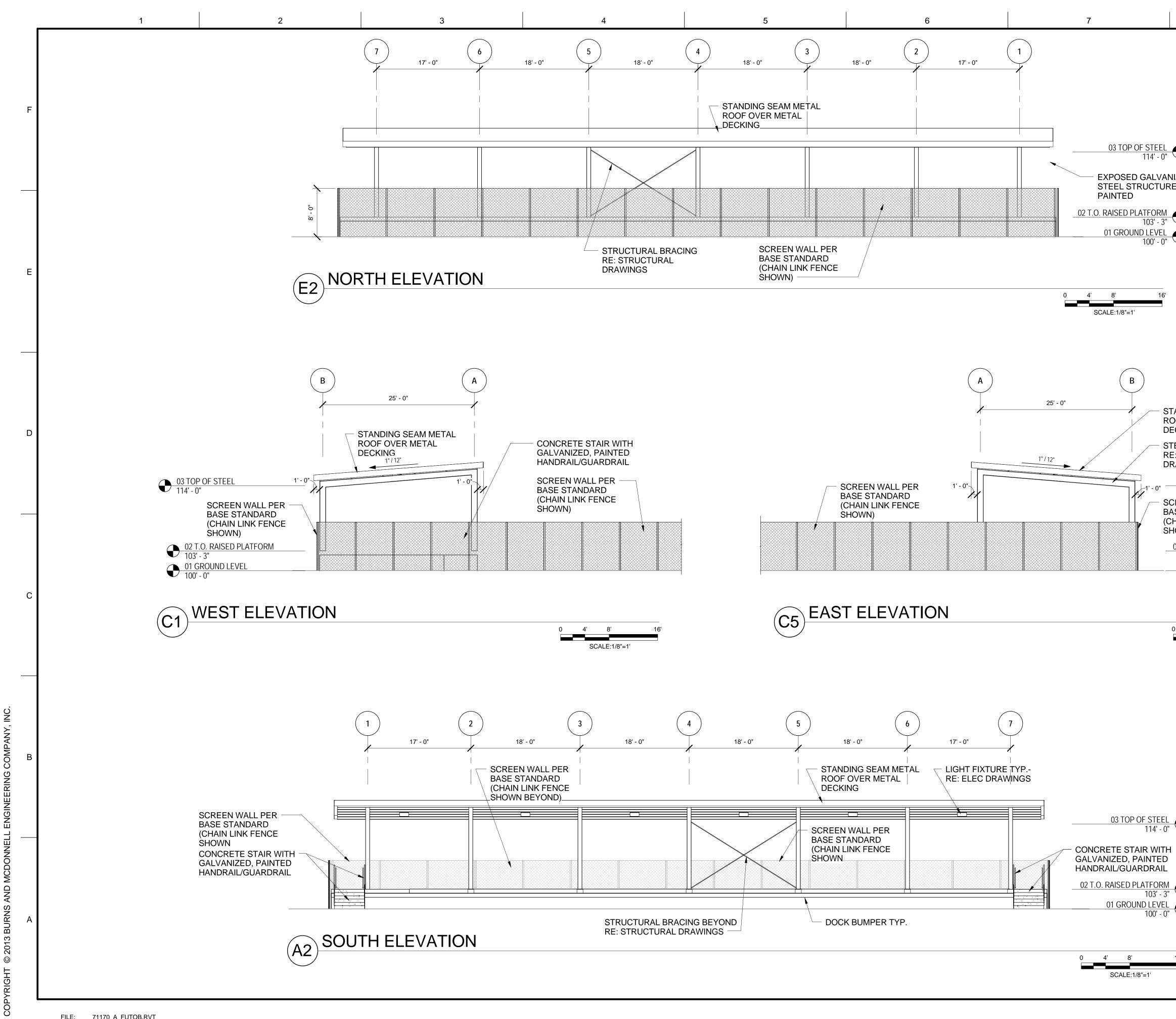
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		US ARMY OF ENGIN MOBILE D	
		DATE APPR.	
C5 A-422 K		REVISIONS DESCRIPTION	
ZED, STEEL YP		SYMBOL	
VALL PER NDARD NK FENCE		BY: DATE: 2/19/2013 	NEER/ARC
		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA C. SPRINK	Burns & McDonnell CHECKED BY: Burns & McDonnell 9400 WARD PARKWAY McDonnell 8400 WARD PARKWAY McDonnell 7.J. KIM since 1898 (816) 333-9400
		KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	OUTDOOR CARGO SUPPORT STRUCTURE PLAN
NOT FOR CONSTR DEFINITIVE		REFE NUI	HEET ERENCE MBER: 421



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				US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
				DATE APPR.
NIZED RE -				
				REVISIONS DESCRIPTION
				SYMBOL
STANDING SE ROOF OVER I DECKING				
STEEL STRUC RE: STRUCTL DRAWINGS	JRAL			DATE: 2/19/2013 SCALE: 1/8" = 1'-0" DRAWING CODE: EP14A-422 2/19/2013 :HITECT DATE
GCREEN WAL BASE STAND CHAIN LINK F SHOWN)	ARD			3Y: Y: VGINEER/ARC
	ED PLATFORM 103' - 3" ROUND LEVEL 100' - 0"			
0 4' SCAL	8' 16' 			U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400
				U.S. ARMY CORPS MOE MOE SINCE 1898
				KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS OUTDOOR CARGO SUPPORT STRUCTURE ELEVATIONS
L 				KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS UTDOOR CARGO SUPPOR STRUCTURE ELEVATIONS
				STR
16'				SHEET REFERENCE NUMBER: A-422
NOT				SHEET OF
	DEFINITI	VE DESIGN	l	

				NISH SCHED	UII E-Workin	a			
ROOM		FLOOR		ASE		-			
NUMBER			FINISH	HEIGHT	NORTH	EAST	SOUTH	WEST	
1 FIRST FLO									
	CLASSROOM	CPT-1	RESB-2	4"	PCS	PCS	PCS	PCS	
101	VEST	MAT-1	RESB-1	4"	PCS	GLZ	PCS	GLZ	3.
102	CORR	CPT-1 / TILEP-1	RESB-2/ TILEPB-1	4"	PCS	PCS	PCS	PCS	
103	BREAK ROOM	TILEP-1	TILEPB-1	4"	PCS	PCS	PCS	PCS	
104	BRIEF	CPT-1	RESB-2	4"	PCS	PCS	PCS	PCS	
105	MEN'S TOILET	TILEP-1	TILEPB-1	4"	TILEP-1	TILEP-1	TILEP-1	TILEP-1	2.
106	BRIEF	CPT-1	RESB-2	4"	PCS	PCS	PCS	PCS	
107	JAN	RESVC-1	RESB-1	4"	PCS	PCS	TILEC-1	TILEC-1	2.
108	WOMEN'S TOILET	TILEP-1	TILEPB-1	4"	TILEP-1	TILEP-1	TILEP-1	TILEP-1	2.
	MECH	CS	RESB-1	4"	PCS-2	PCS-2	PCS-2	PCS-2	3, 4, 5
	COMM	CS	RESB-1	4"	PCS	PCS	PCS	PCS	
	ELEC	CS	RESB-1	4"	PCS-2	PCS-2	PCS-2	PCS-2	3, 4, 5
	FUSELAGE TRAINER	EF-1	EFB-1	8"	PCS-2	PCS-2	PCS-2	PCS-2	1.
114	FIRE PUMP ROOM	CS	RESB-1	4"	PCS-2	PCS-2	PCS-2	PCS-2	3, 4, 5
Specif Of the Produ	OR AND EXTERIOR FINISH MA TICATION SECTION 09 06 90 C FINISH CODES SHOWN ON F ICT OR EQUIVALENT.	SENERAL NOTE ATERIALS AND COLORS SHALL BE AS OLOR SCHEDULE. SPECIFICATION PF FINISH LEGEND AND FINISH SCHEDU	REFERENCEE ROVIDES DETA LE AS THE BAS	AILED INFORMA					

- 4. ALL HULLOW METAL DOURS AND FRAMES TO BE PAINTED (PCS-)
- 5. WINDOW SILLS TO BE SOLID SURFACE MATERIAL (SSF-).
- 6. PROVIDE HORIZONTAL METAL BLINDS (HB-1) ON ALL WINDOWS TYPES W_, W_, & W_. REFERENCE A-111, A-200 THRU 201, AND A-620.

REMARKS

- 1. PROVIDE HIGH IMPACT RESISTENT/WATER RESISTENT GYPSUM WALL BOARD UP TO 8'-0" ABOVE FINISH FLOOR LEVEL. PROVIDE WATER RESISTENT GYPSUM WALL BOARD 8'-0" ABOVE FINISH FLOOR LEVEL TO BOTTOM OF STRUCTURE.
- 2. PROVIDE WATER RESISTENT GYPSUM WALL BOARD.
- 3. PROVIDE FULL HEIGHT GLASS MATT GYPSUM WALL BOARD.
- 4. PROVIDE VAPOR BARRIER BETWEEN ADJACENT CONDITIONED SPACE. VAPOR BARRIER LOCATION TO BE CONFIRMED UPON SITE SELECTION.
- 5. ADD BATT INSULATION (R-18 MIN) AT WALL BETWEEN ADJACENT CONDITIONED SPACE.

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FINISH LEGEND - BASES									
MATL	DESCRIPTION								
EPOXY									
EFB-1	EPOXY BASE - INTEGRAL 4" H								
RUBBER									
RESB-1	RUBBER BASE - TOED 4" H								
RESB-2	RUBBER BASE - STRAIGHT 4" H								
TILE									
TILECB-1	CERAMIC TILE BASE - 6" H								
TILEPB-1	PORCELAIN TILE BASE - 4" H								

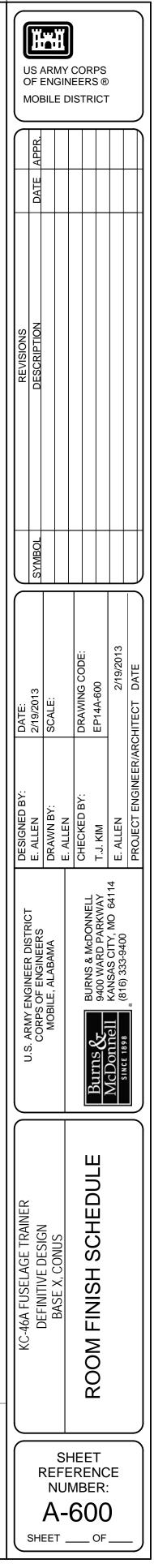
FINISH LEGEND - CEILINGS									
MATL	DESCRIPTION								
ACOUSTICA	AL								
ACT	ACOUSTICAL TILE 2x2 -OFFICE								
PAINT									
PCS	EXPOSED CEILING PAINT								
PCS-1	GYPBOARD CEILING PAINT								

	FINISH LEGEND - FLOORS									
MATL	DESCRIPTION									
ACCESS FL	OORING									
AF-1	RESILIENT INTEGRAL FACE									
CARPET TI	LE									
CPT-1	CARPET TILE									
CONCRETE										
CS	SEALED									
EPOXY										
EF-1	EPOXY FLOOR SYSTEM									
RESILIENT	FLOORING									
RESVC-1	VINYL COMPOSITION TILE									
TILE										
TILEP-1	PORCELAIN TILE									
WALK-OFF	MAT									
MAT-1	WALK OFF MAT: (RECESSED ENTRY MAT SYSTEM)									

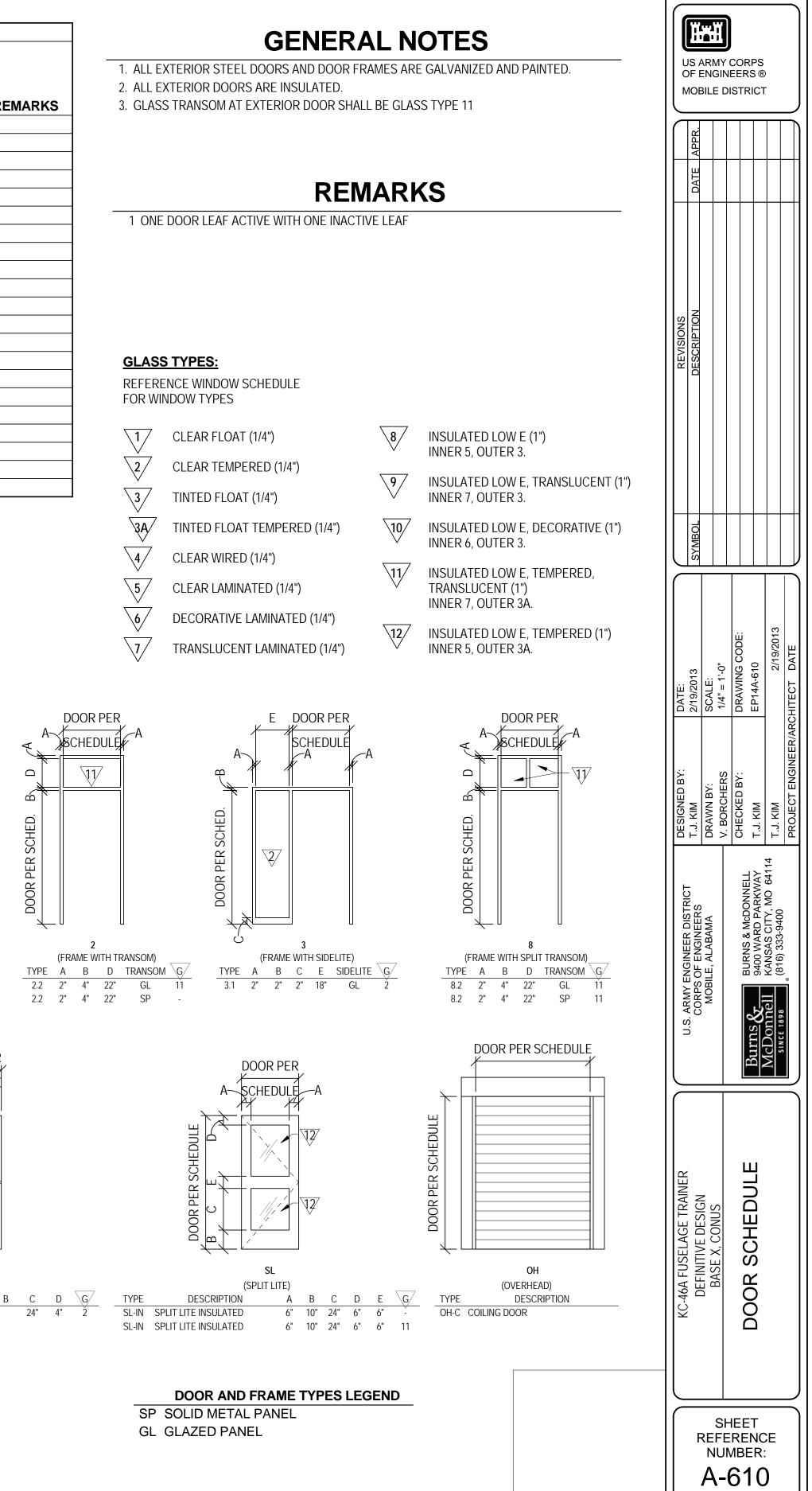
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FINISH LEGEND - WALLS									
DESCRIPTION									
ACOUSTICAL FABRIC									
ACOUSTICAL FABRIC PANEL									
CURTIAN WALL GLAZING									
GRAPHIC PANEL									
PAINT									
EPOXY WALL PAINT									
CERAMIC									
PORCELAIN									

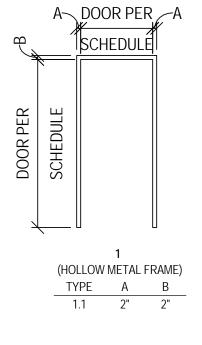
FINISH LEGEND - MISCELLANEOUS								
MATL	DESCRIPTION							
CORNER G	JARD							
CG-1	CORNER GUARD - METAL							
CG-2	CORNER GUARD - ACROVYN							
LAMINATE								
PLAM-1	PLASTIC LAMINATE							
PLAM-2	PLASTIC LAMINATE							
SURFACES								
SSF-1	SOLID SURFACE							

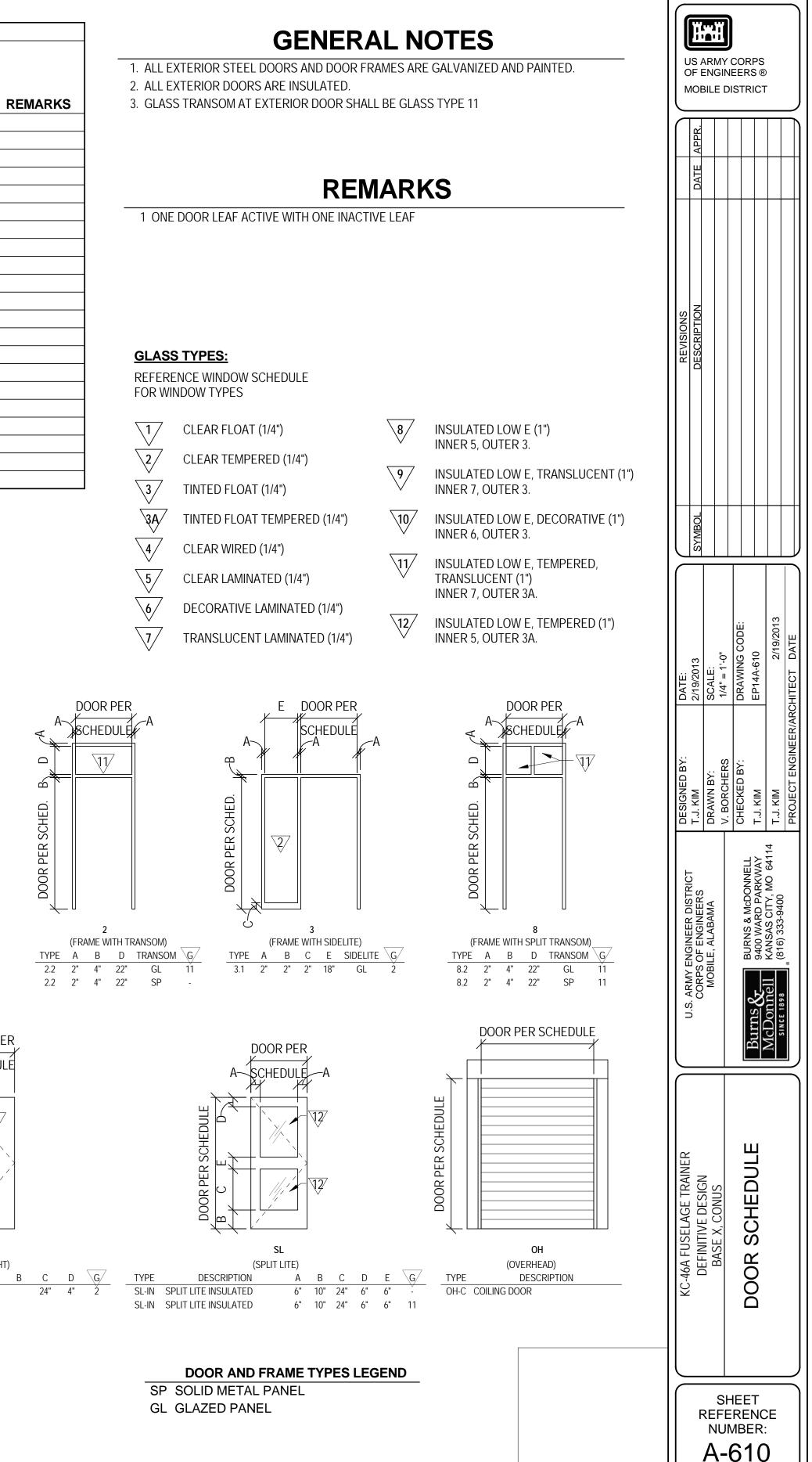


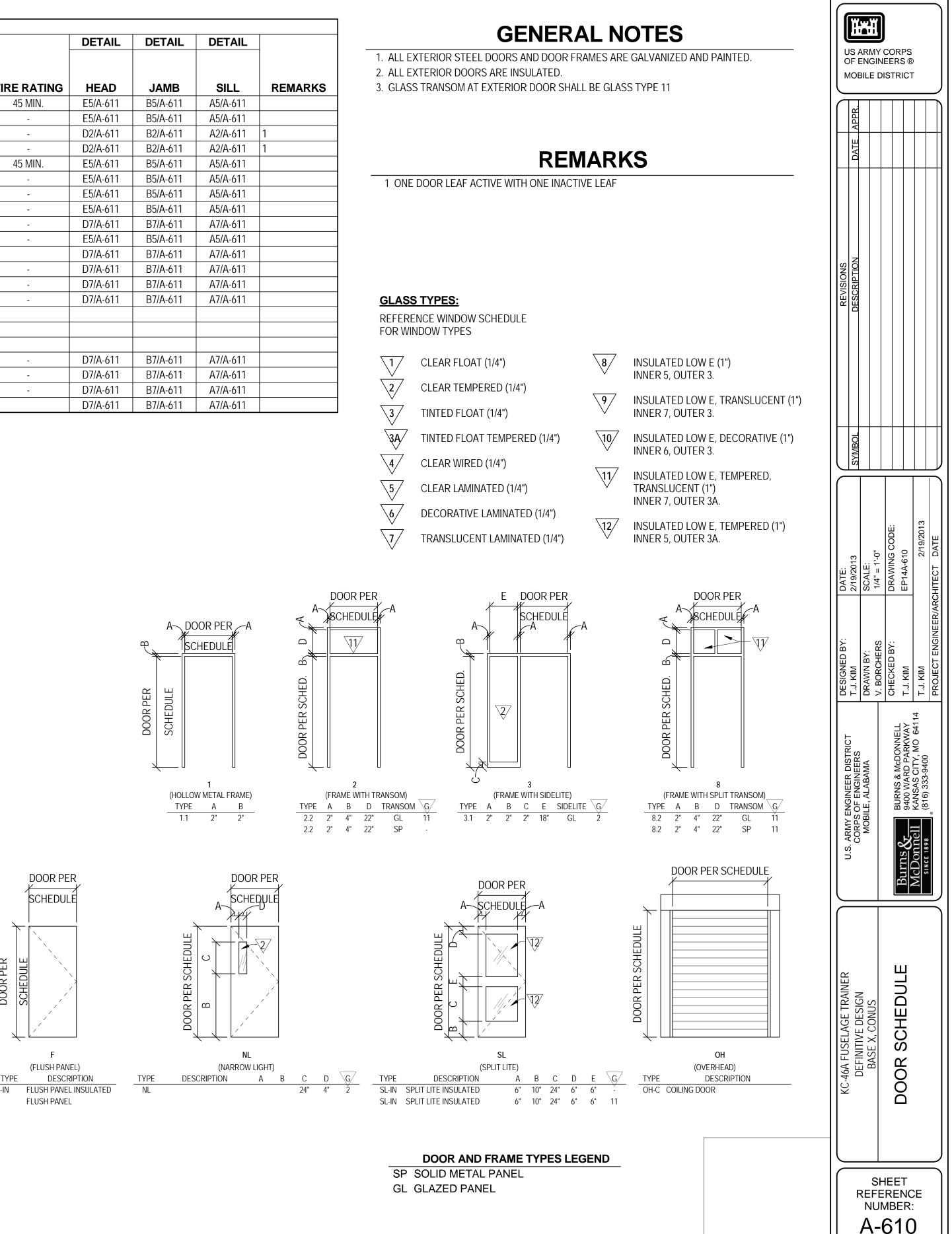
								DOOR SCH						
					DOOR			FRAME	-		DETAIL	DETAIL	DETAIL	
		DOOR	SIZE		SIZE									
		NUMBER 100.A		WIDTH 3' - 0"	HEIGHT 7' - 0"	TYPE NL	HM	TYPE 1.1	HM	FIRE RATING 45 MIN.	HEAD E5/A-611	JAMB B5/A-611	SILL A5/A-611	REMARKS
		100.B 101.A	- PR.	3' - 0" 6' - 0"	7' - 0" 7' - 0"	NL SL-IN	HM AL/GL	3.1 2.2	HM	-	E5/A-611 D2/A-611	B5/A-611 B2/A-611	A5/A-611 A2/A-611	1
		101.B	PR.	6' - 0"	7' - 0"	SL-IN	AL/GL	2.2	AL	-	D2/A-611	B2/A-611	A2/A-611	1
		102.A 104.A	-	3' - 0" 3' - 0"	7' - 0" 7' - 0"	NL NL	HM	1.1 1.1	HM WD	45 MIN. -	E5/A-611 E5/A-611	B5/A-611 B5/A-611	A5/A-611 A5/A-611	
		105.A 106.A		3' - 0" 3' - 0"	7' - 0" 7' - 0"	F NL	HM HM	1.1 1.1	WD WD	-	E5/A-611 E5/A-611	B5/A-611 B5/A-611	A5/A-611 A5/A-611	
		107.A 108.A		3' - 0" 3' - 0"	7' - 0" 7' - 0"	F	HM HM	1.1 1.1	WD WD	-	D7/A-611 E5/A-611	B7/A-611 B5/A-611	A7/A-611 A5/A-611	
		109.A 111.A	PR.	6' - 0" 3' - 0"	7' - 0" 7' - 0"	F-IN F-IN	HM	8.2	HM		D7/A-611	B7/A-611	A7/A-611 A7/A-611	
		112.A	-	3' - 0"	7' - 0"	F-IN	HM HM	2.2	HM HM	-	D7/A-611 D7/A-611	B7/A-611 B7/A-611	A7/A-611	
		113.A 113.B	-	3' - 0" 11' - 0"	7' - 0" 12' - 8"	F-IN OH-C	HM HM	2.2 0	HM HM	-	D7/A-611	B7/A-611	A7/A-611	
		113.C 113.D		12' - 0" 22' - 0"	12' - 8" 16' - 0"	OH-C OH-C	HM HM	0	HM HM					
		113.E	-	3' - 0"	7' - 0"	F-IN	HM	2.2	HM	-	D7/A-611	B7/A-611	A7/A-611	
		113.F 113.G	-	3' - 0" 3' - 0"	7' - 0" 7' - 0"	F-IN F-IN	HM HM	2.2 2.2	HM HM	-	D7/A-611 D7/A-611	B7/A-611 B7/A-611	A7/A-611 A7/A-611	
		114.A	PR.	6' - 0"	7' - 0"	F-IN	HM	8.2	HM		D7/A-611	B7/A-611	A7/A-611	
												J.	DOR PER - A	A SCHE
												J.	DOR PER A	
														SCHED. B D
												J.		OR PER SCHED. B. D. A.
														PER SCHED. B. D. A.
												DOOR PER B SCHEDULE	<u>CHEDULE</u>	DOOR PER SCHED. B. D. A.
												DOOR PER SCHEDULE	CHEDULE 1 W METAL FRAME)	FRAME TYPE A B
												DOOR PER SCHEDULE	<u>CHEDULE</u>	DOOR PER SCHED. B. D. P.
												DOOR PER SCHEDULE	CHEDULE 1 W METAL FRAME)	FRAME TYPE A B
										DOOR PE	.R	DOOR PER SCHEDULE	CHEDULE 1 W METAL FRAME)	(FRAME TYPE A B 2.2 2" 4"
										DOOR PE SCHEDUL	\prec	DOOR PER SCHEDULE	1 DW METAL FRAME) A B 2" 2"	(FRAME TYPE A B 2.2 2" 4"
										X	\prec	DOOR PER SCHEDULE	1 DW METAL FRAME) A B 2" 2"	(FRAME TYPE A B 2.2 2" 4"
										X	\prec	(HOLLO TYPE 1.1	1 DW METAL FRAME) A B 2" 2"	(FRAME TYPE A B 2.2 2" 4"
										SCHEDUL	\prec	EDULE	1 DW METAL FRAME) A B 2" 2"	(FRAME TYPE A B 2.2 2" 4"
										SCHEDUL	\prec	DULE DULE	1 DW METAL FRAME) A B 2" 2"	(FRAME TYPE A B 2.2 2" 4"
										SCHEDUL	\prec	SCHEDULE BOOR PER BUILT SCHEDULE	1 DW METAL FRAME) A B 2" 2"	(FRAME TYPE A B 2.2 2" 4"
										SCHEDUL	\prec	PER SCHEDULE	1 DW METAL FRAME) A 2" 2" DOOR	(FRAME TYPE A B 2.2 2" 4"
										DOOR PER SCHEDULE SCHEDULE	E	PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI	PER DULE
										SCHEDUL SCHEDUL BOOK BEK F (FLUSH PAN TYPE DESCR	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G
										SCHEDUL SCHEDUL SCHEDUL SCHEDUL SCHEDUL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DUE (FRAME 2.2 2" 4"
										SCHEDUL SCHEDUL J J J SCHEDUL SCHEDUL F (FLUSH PAN TYPE DESCR F-IN FLUSH PANEL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G
										SCHEDUL SCHEDUL J J J SCHEDUL SCHEDUL F (FLUSH PAN TYPE DESCR F-IN FLUSH PANEL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G
										SCHEDUL SCHEDUL J J J SCHEDUL SCHEDUL F (FLUSH PAN TYPE DESCR F-IN FLUSH PANEL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G
										SCHEDUL SCHEDUL J J J SCHEDUL SCHEDUL F (FLUSH PAN TYPE DESCR F-IN FLUSH PANEL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G
										SCHEDUL SCHEDUL J J J SCHEDUL SCHEDUL F (FLUSH PAN TYPE DESCR F-IN FLUSH PANEL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G
										SCHEDUL SCHEDUL J J J SCHEDUL SCHEDUL F (FLUSH PAN TYPE DESCR F-IN FLUSH PANEL	EL) RIPTION	DOOR PER SCHEDULE	1 W METAL FRAME) A B 2" 2" DOOR A SCHEI CHEI MI (NARROW L	PER DULE PER DULE C MGHT) A B C D G



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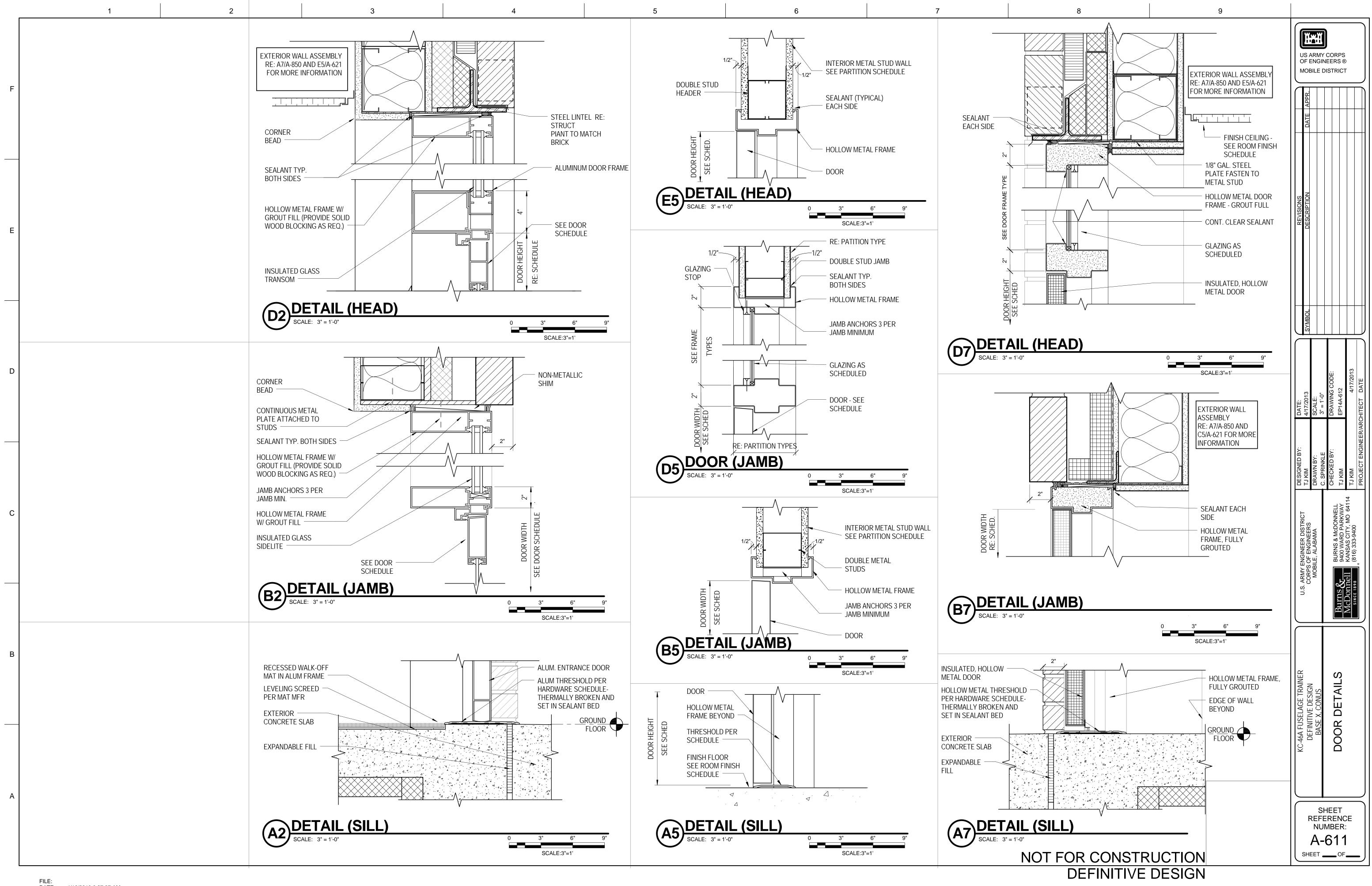




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NOT FOR CONSTRUCTION **DEFINITIVE DESIGN**

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										ARMY		
	S	IZE	WINI HEAD	DOW SCHEI SILL	DULE	DETAILS	5				NEERS ®	
TYPE	WIDTH	HEIGHT	HEIGHT	HEIGHT	HEAD		SILL	REMARKS				
W01 W02	4' - 0" 4' - 0"	6' - 0" 6' - 0"	9' - 4" 9' - 4"	3' - 4" 3' - 4"	E5/A-621 E7/A-621	C5/A-621 D7/A-621	A5/A621 B7/A-621		APPR			$\left \right $
									DATE			
		0 0. 8	4' - 0" 7 8 8 8	1					REVISIONS			
		RE: SCHEI	(W01)		RE: SCHEI	W02			SYMBOI			
	REFERE	S TYPES: ENCE WINDOW NDOW TYPES CLEAR FLOAT			0 / INSI	LATED LOW E (1	1 n/		DATE: 2/19/2013	SCALE: 1/4" = 1'-0"	DRAWING CODE: EP14A-620	T.J. KIM 2/19/2013
	2	CLEAR TEMP			✓ INNE	R 5, OUTER 3.			D/ 2/1	S ≿	E E	
	3	TINTED FLOA	T (1/4")			LATED LOW E, T R 7, OUTER 3.	RANSLUCENT	(1")	37:		BY:	
	$\overline{4}$	TINTED FLOA	T TEMPERED ($(1/4'')$	1/4")		LATED LOW E, E R 6, OUTER 3.	DECORATIVE (1'	')	DESIGNED BY: T.J. KIM	DRAWN BY: C. SPRINKI F	CHECKED E T.J. KIM	T.J. KIM
	\4 _5	CLEAR LAMIN		\sum	✓ TRAI	LATED LOW E, T ISLUCENT (1")	TEMPERED,		DE			4 .L.
	6	DECORATIVE	LAMINATED (1/			R 7, OUTER 3A. LATED LOW E, 1	FMPERED (1")		ICT		UNELL KWAY	MO 6411
	7	TRANSLUCEN	IT LAMINATED			R 5, OUTER 3A.			LEER DISTRICT	ABAMA	VS & McDONNELL WARD PARKWAY	SAS CITY, N 333-9400
				GENERAL				<u> </u>	ARMY ENGINE	BILE, AL	BURN 9400 \	KANS (816)
	GLAS SITE 2. PRO WIND	SS SPECIFICA SELECTION. VIDE SECURI	ATION AND G TY METAL M EN STORAGE	BLAZING LAY	YUP SHAL	EL AT ALL EX L BE CONFIRI DE OF GLASS E.Y. DRAWIN	MED UPON PANEL AT A	LL	U.S. ARM	WO	Burns &	McDonñell since 1898
	3. PRO 1221		FOR ALL EX		NDOWS. R	E: SPECIFICA	TION SECTION	N				
											Ш	
									VINER	2	SCHEDULE	
									KC-46A FUSELAGE TRAINER	DEFINITIVE DESIGN BASE X, CONUS	CHE	
									FUSELA	<u>INTIVE</u> <u>\SE X, C</u>	V S(
									KC-46A	UEF B/	WINDOW	
											MI	

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									ARMY	CORF	2S	
S	IZE			JLE	DETAILS					NEERS DISTRIO		
NIDTH	HEIGHT	HEAD HEIGHT	SILL HEIGHT	HEAD	JAMB	SILL	REMARKS					
4' - 0"	6' - 0"	9' - 4"	3' - 4" E	E5/A-621	C5/A-621	A5/A621		APPR				
4' - 0"	6' - 0"	9' - 4"	3' - 4" E	E7/A-621	D7/A-621	B7/A-621		DATE				
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	ENCE WINDOW S NDOW TYPES CLEAR FLOAT		8/		ATED LOW E (1")		DATE: 2/19/2013	SCALE: 1/4" = 1'-0"	DRAWING CODE: EP140-620	2/19/2013	
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3 3A	TINTED FLOA	r (1/4") r tempered (1/4")	7 insula	7, OUTER 3. ATED LOW E, DI 6, OUTER 3.	ECORATIVE (1"))	DESIGNED BY: T.J. KIM	DRAWN BY: C. SPRINKLE	KED BY:	> >	PROJECT ENGINEER/ARCHITECT
4 5	CLEAR WIRED		11	7 insula	ATED LOW E, TE LUCENT (1")	EMPERED,		DESIGN T.J. KIM	DRAWN BY: C. SPRINKL	CHECKED		PROJE
√ √6∕	DECORATIVE		/4")		7, OUTER 3A.						ИАҮ 64114	
$\sqrt{7}$	TRANSLUCEN	T LAMINATED	(1/4")	/ INSULA INNER	ATED LOW E, TE 5, OUTER 3A.	EMPERED (1")		GINEER DISTRICT	, ALABAMA	JRNS & McDONNEL	8400 WAKU PAKKWAY KANSAS CITY, MO 64	10) 333-9400
GLAS SITE 2. PROV WIND STOP	SS SPECIFICA SELECTION. /IDE SECURI OWS AT OPE RAGE BOUND /IDE BLINDS	TION AND G TY METAL M N STORAGE ARY.	GENERAL N MINATED GLA GLAZING LAYU ESH AT INTEI E AREA. REFI TERIOR WINE	ASS PANEL JP SHALL I RIOR SIDE ERENCE E	BE CONFIRM OF GLASS F Y. DRAWING	IED UPON PANEL AT AL GS FOR OPE	L N	U.S. ARMY ENGINE	MOBILE		<u>nell</u>	SINCE 1898
								KC-46A FUSELAGE TRAINER	BASE X, CONUS	WINDOW SCHEDULE		

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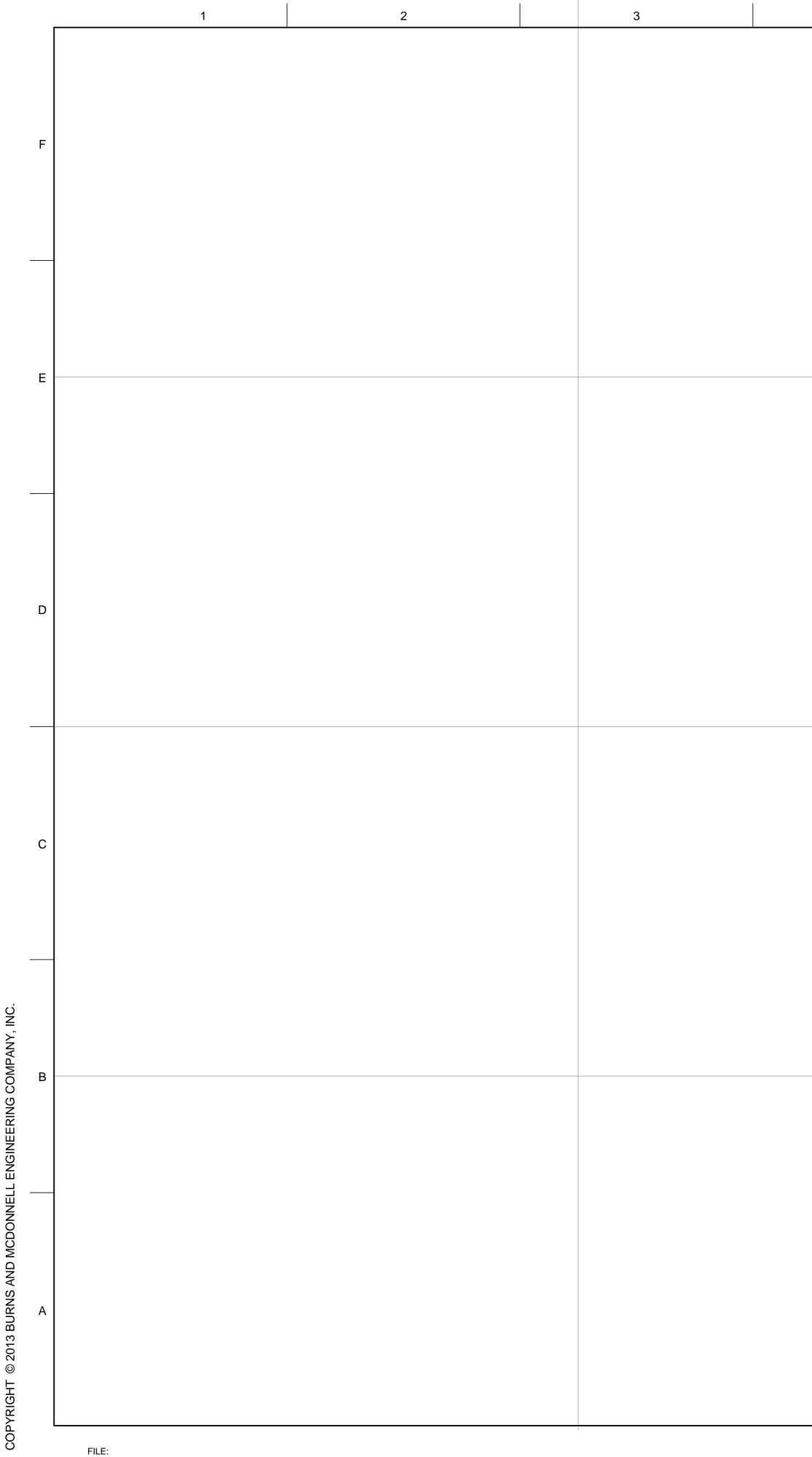
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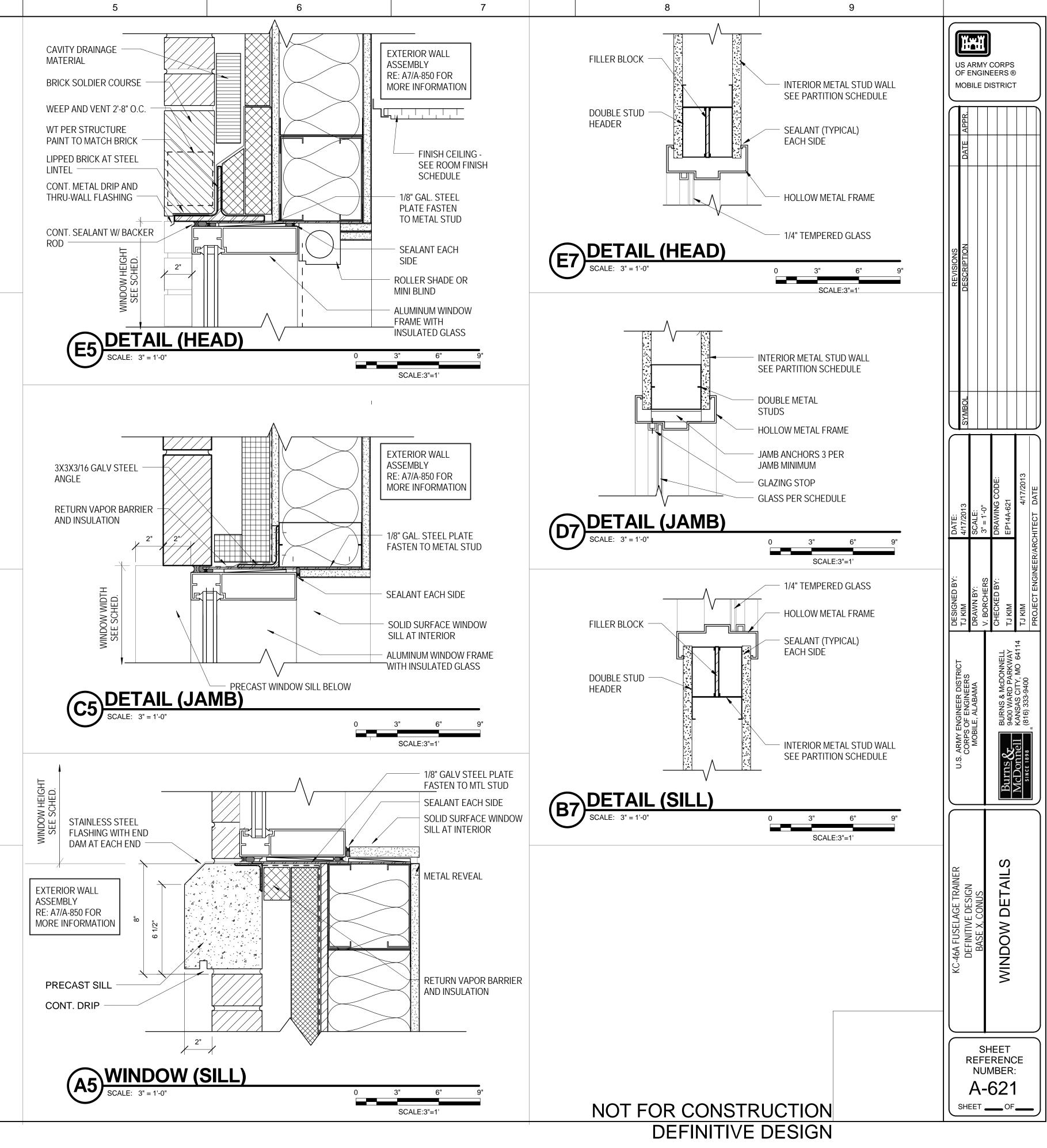
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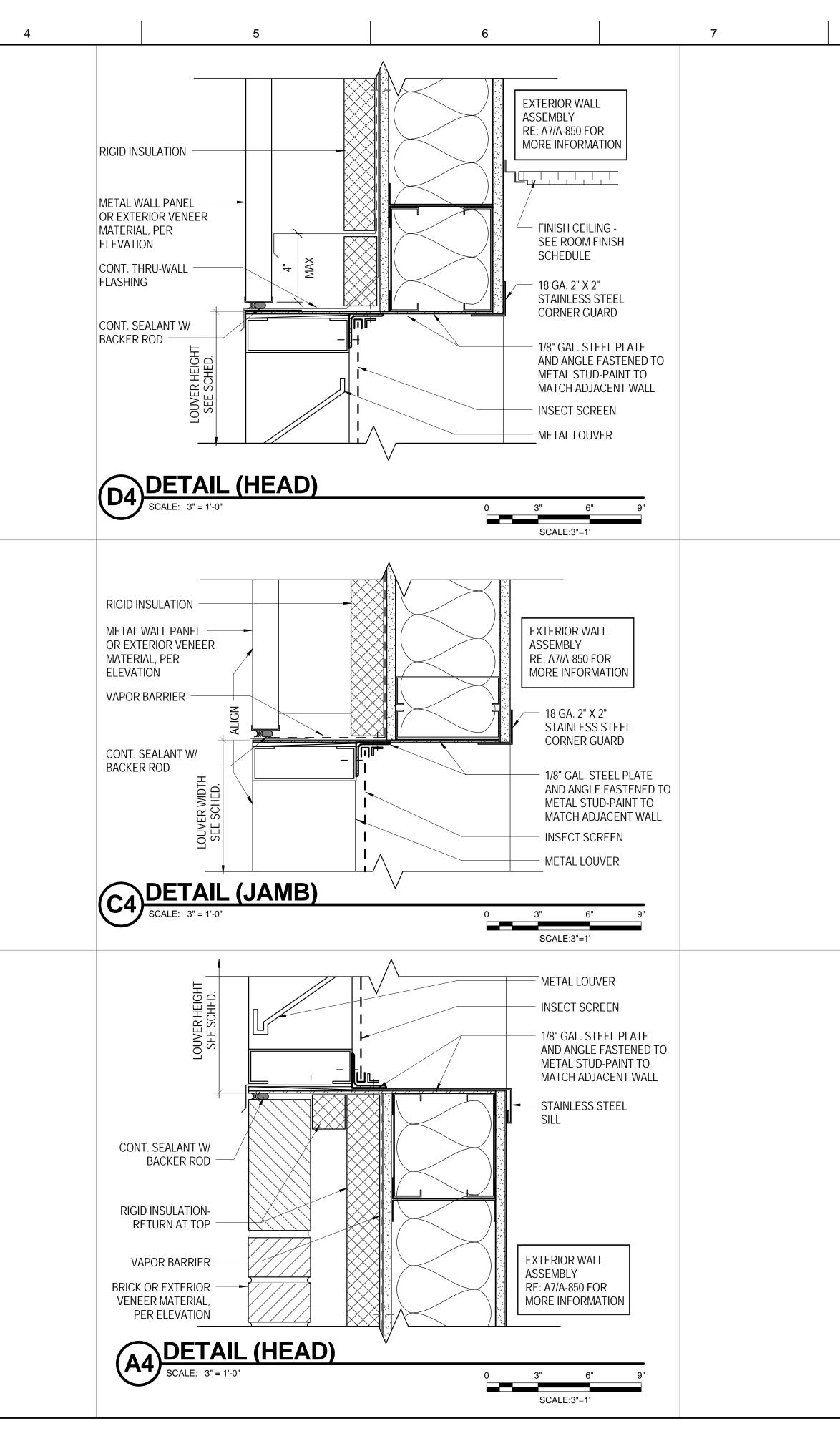
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			SIZE TYPE WIDTH HEIGHT L01 3' - 4" 2' - 0"	LOUVER SCHEDULEHEAD HEIGHTSILL HEIGHTHEA9' - 4"7' - 4"D4/A-631		REMARKS	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
			L02 16' - 0" 3' - 2" L03 13' - 6" VARIES L04 17' - 6" VARIES	22' - 8" 19' - 6" D4/A-631 VARIES 13' - 4" D4/A-631 VARIES 13' - 4" D4/A-631	C4/A-631 A4/A-631 C4/A-631 A4/A-631		DATE APPR
			13' - 6"				REVISIONS DESCRIPTION
3' - 4"	8' - 0"	9 ⁻ - 1 ⁻		5' - 5 1/2"	17' - 6"		
SCHEDULE 2'- 0"	SCHEDULE 3	RE: SCHEDULE		SCHEDULE			DE:
 [L01]	يز [L02]	¥	[L03]	Ш Ч	[L04]		DATE: 2/19/2013 2/19/2013 SCALE: 1/4" = 1'-0" DRAWING CODE: EP14A-630 EP14A-630 2/19/2013 XEER/ARCHITECT DATE
							L DESIGNED BY: T.J. KIM DRAWN BY: C. SPRINKLE CHECKED BY: T.J. KIM T.J. KIM PROJECT ENGINEER/
							U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA MOBILE, ALABAMA BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400
							C-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS ER SCHEDULE AND DETAILS
							KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS LOUVER SCHEDULE DETAILS
							SHEET REFERENCE NUMBER: A-630

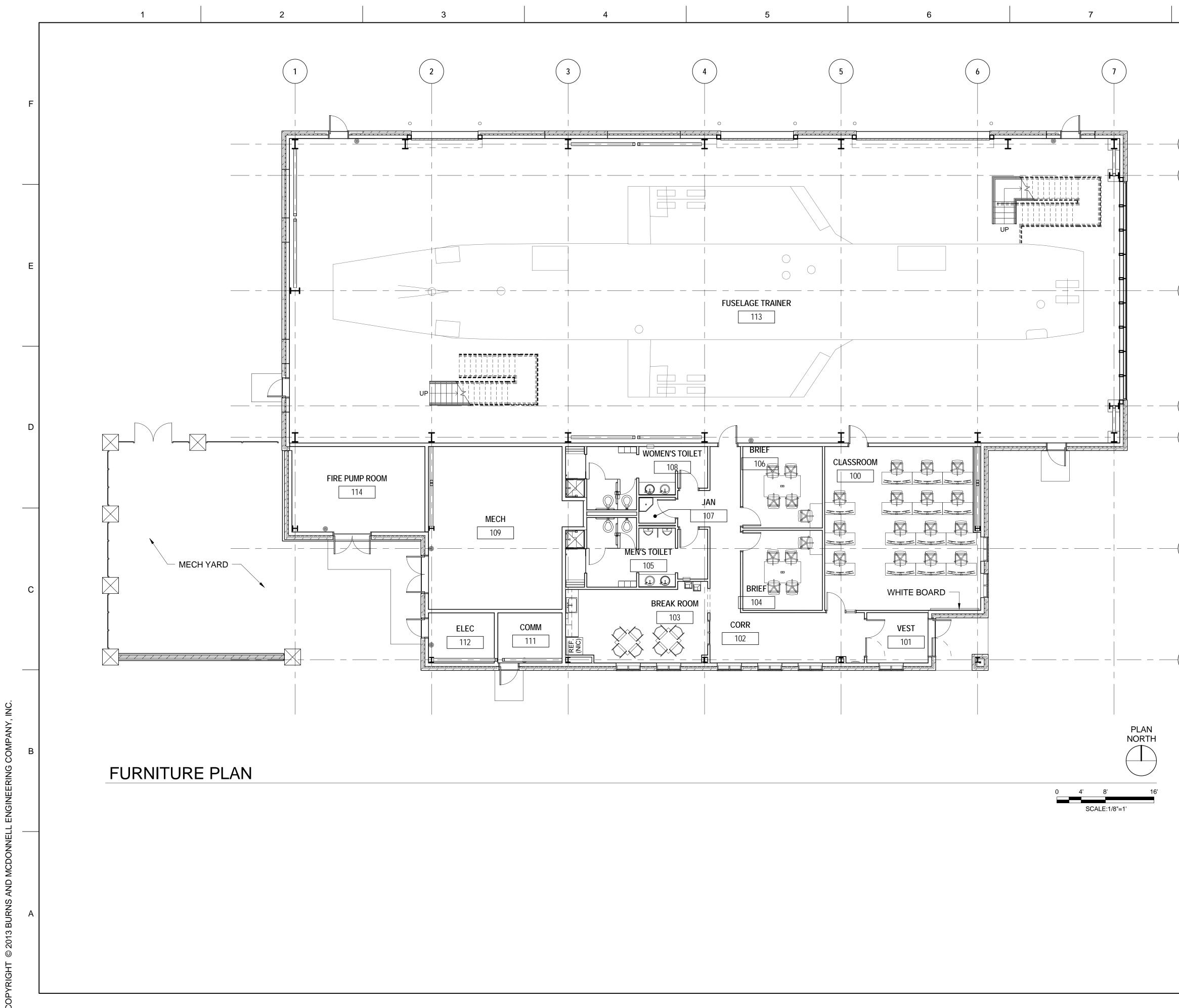
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		US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
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		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BUTINS BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 8106 1898 (816) 333-9400
		KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS LOUVER DETAILS
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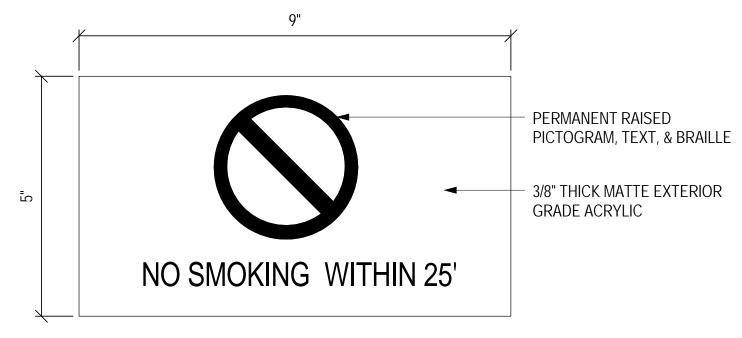
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B			DESIGNED BY: E. ALLEN	AA DRAWN BY: E. ALLEN	BURNS & McDONNELL 9400 WARD PARKWAY T.J. KIM	
A			U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS	MOBILE, ALABAN	BURNS & M 9400 WARE	
			KC-46A FUSELAGE TRAINER	BASE X, CONUS	FURNITURE PLAN	
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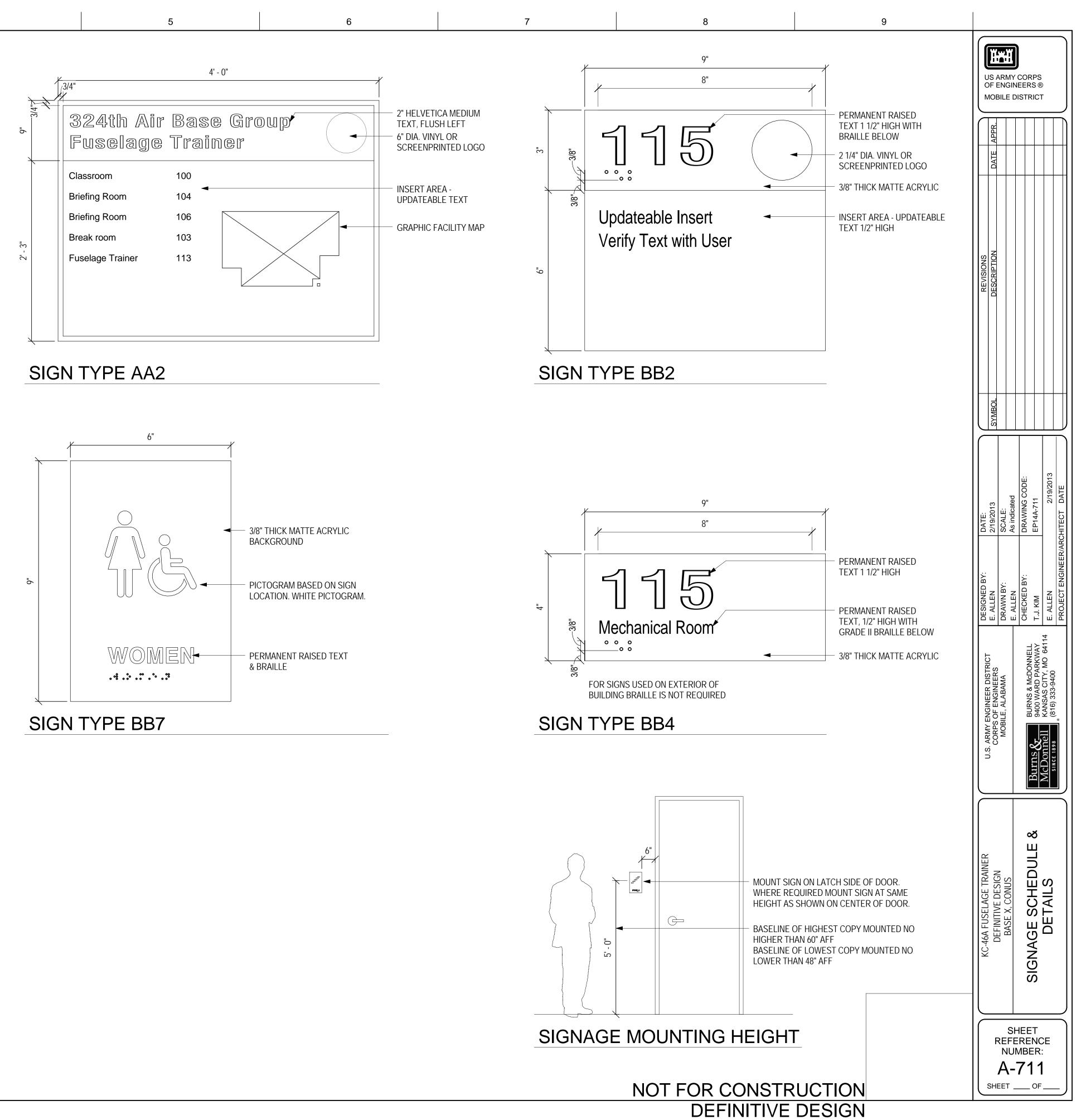
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SI	GN				MESSAGE	
TAG	TYPE	DOOR NUMBER	ROOM NUMBER	SIGN NUMBER	TEXT	COMMENTS
G100.1	BB2	100.A	100	100	CLASSROOM	
G100.2	BB2	100.B	100	100	CLASSROOM	
G101	DD	101.A	EXT	-	NO SMOKING WITHIN 25'	
G102	AA2	-	102	-	"DIRECTORY"	
G102.A	BB2	102.A	102	113	FUSELAGE TRAINING BAY	
G102.B	BB2	102A	113	102	TO BRIEFING ROOMS	
G103	BB2	103.A	103	103	BREAK ROOM	
G104	BB2	104.A	104	104	BRIEFING ROOM	
G105	BB7	105.A	105	-	MEN	
G106	BB2	106.A	106	106	BRIEFING ROOM	
G107	BB2	107.A	107	107	JANITOR	
G108	BB7	108.A	108	-	WOMEN	
G109	BB4	109.A	109	109	MECHANICAL	
G111	BB4	111.A	111	111	COMMUNICATIONS	
G112	BB4	112.A	112	112	ELECTRICAL	
G114	BB4	114.A	114	114	FIRE PUMP ROOM	

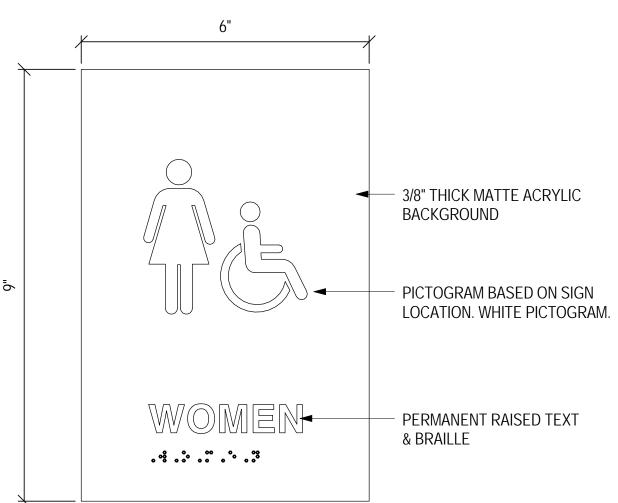


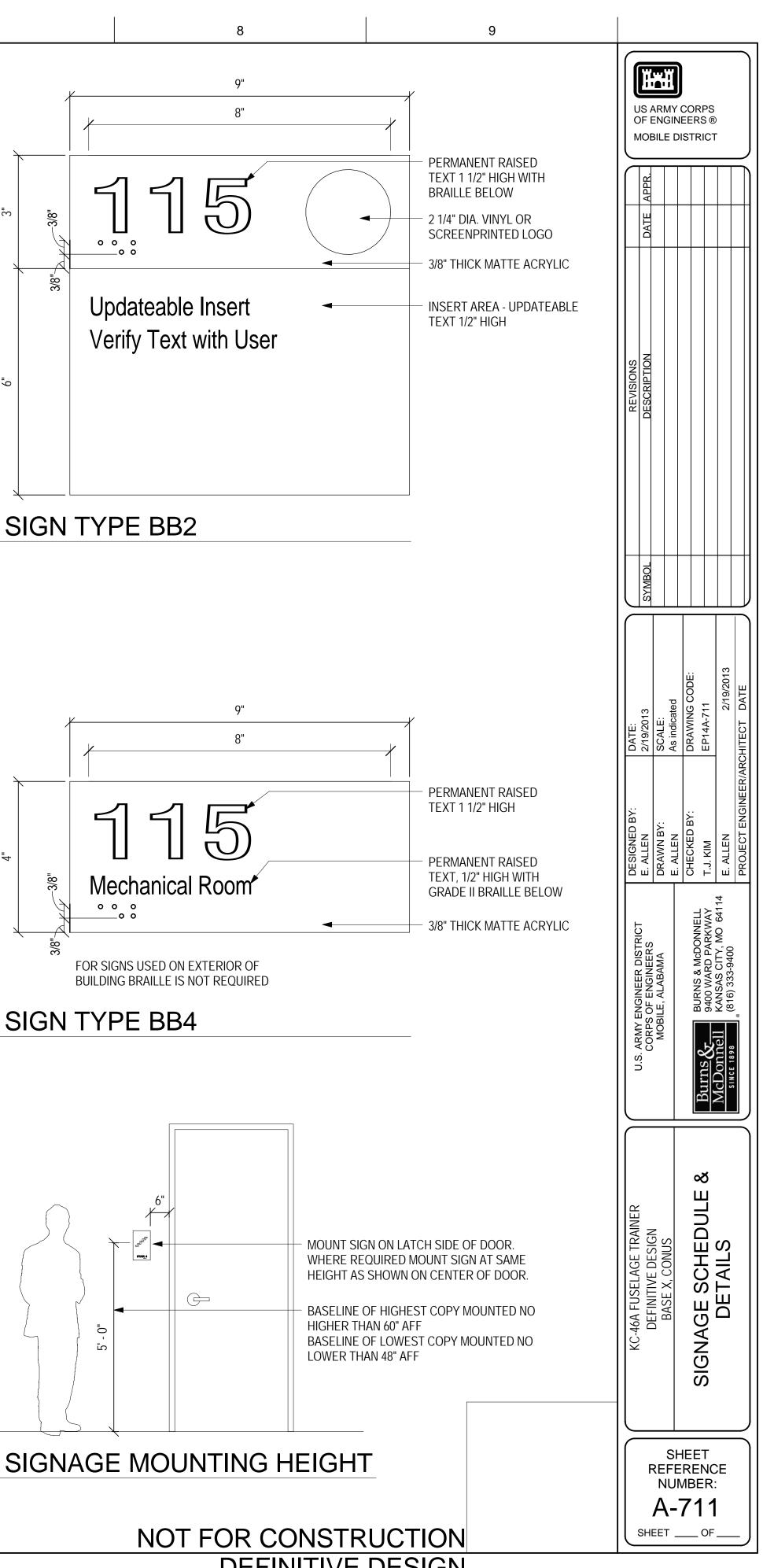
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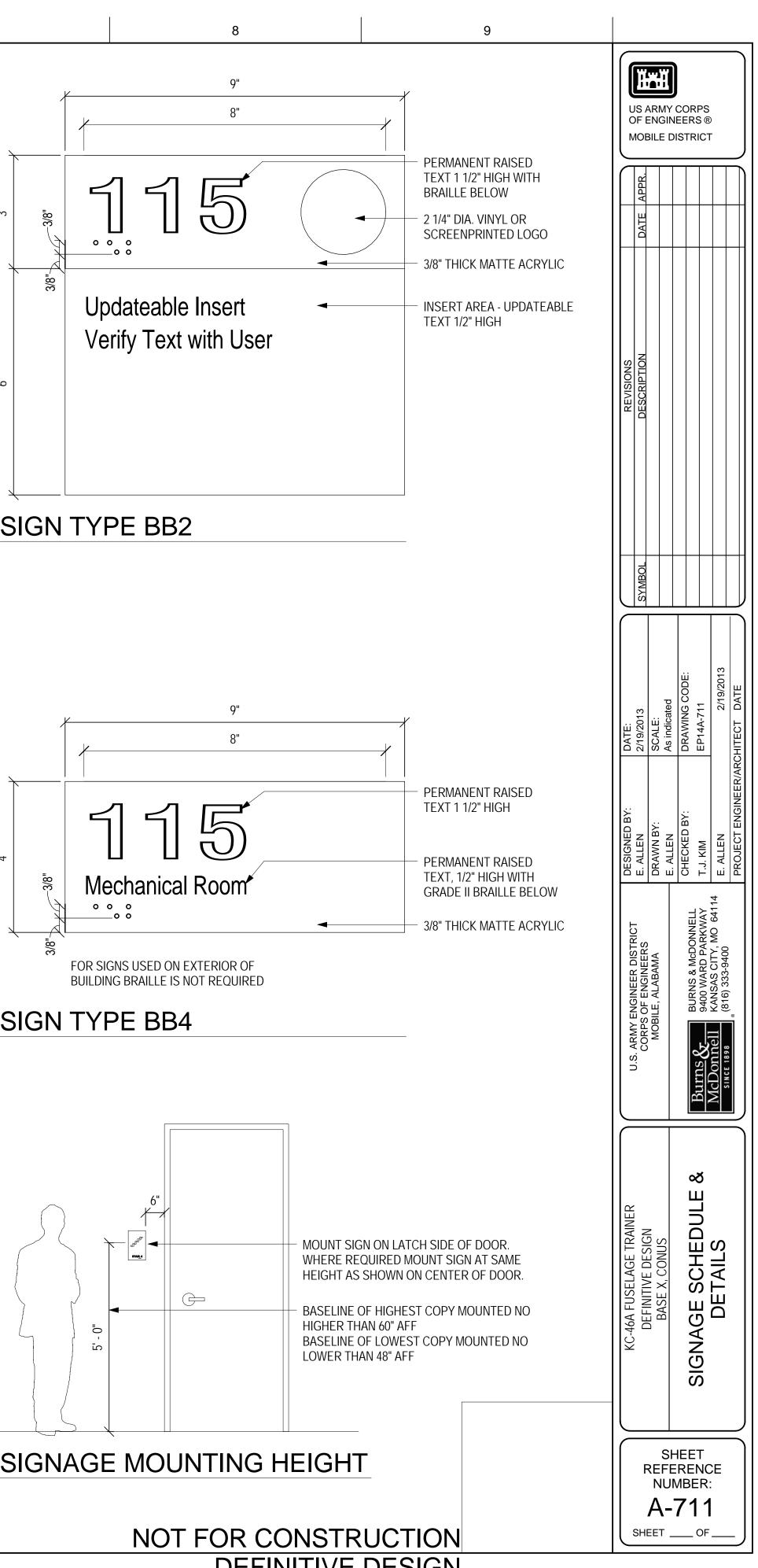


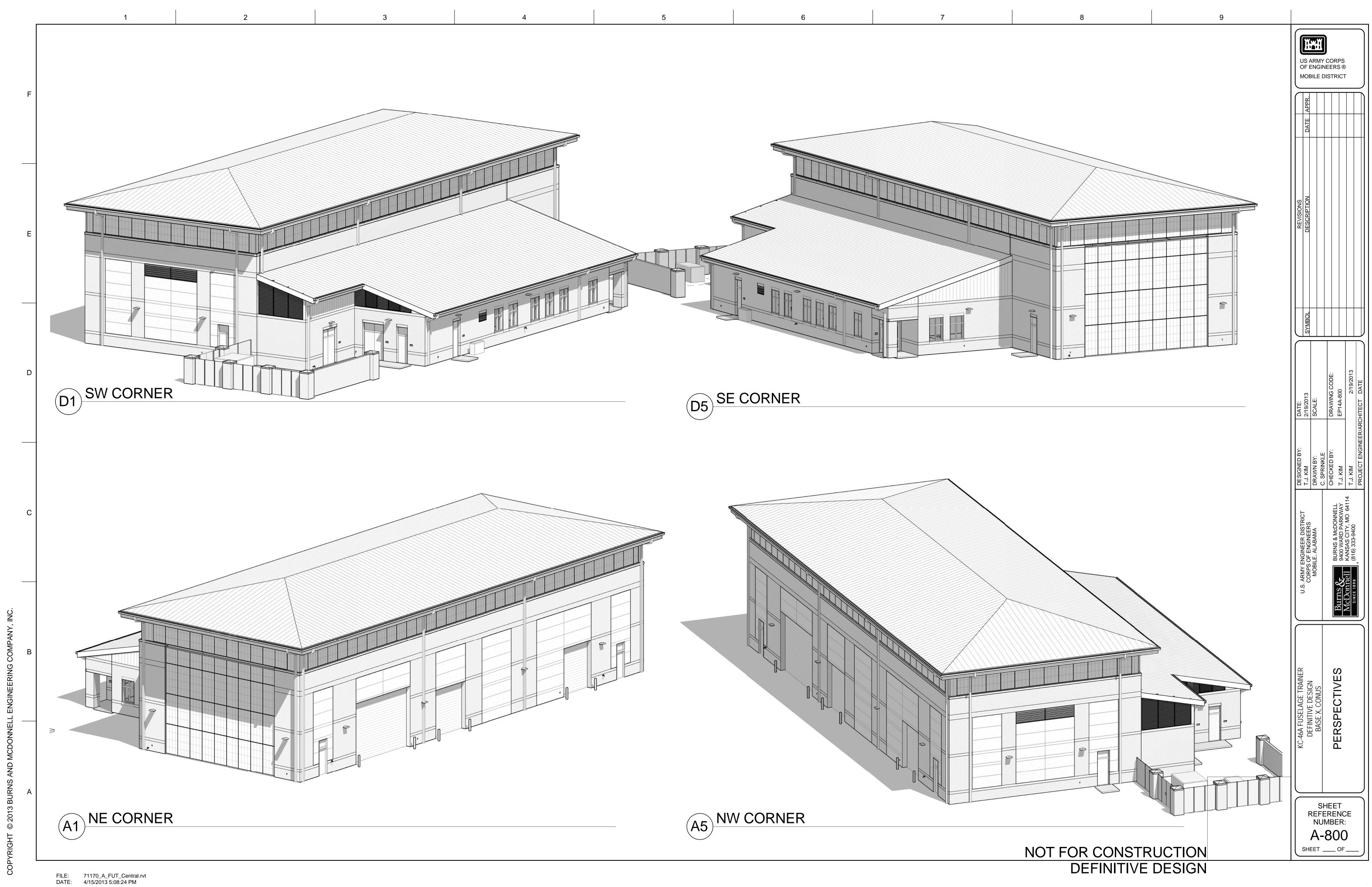
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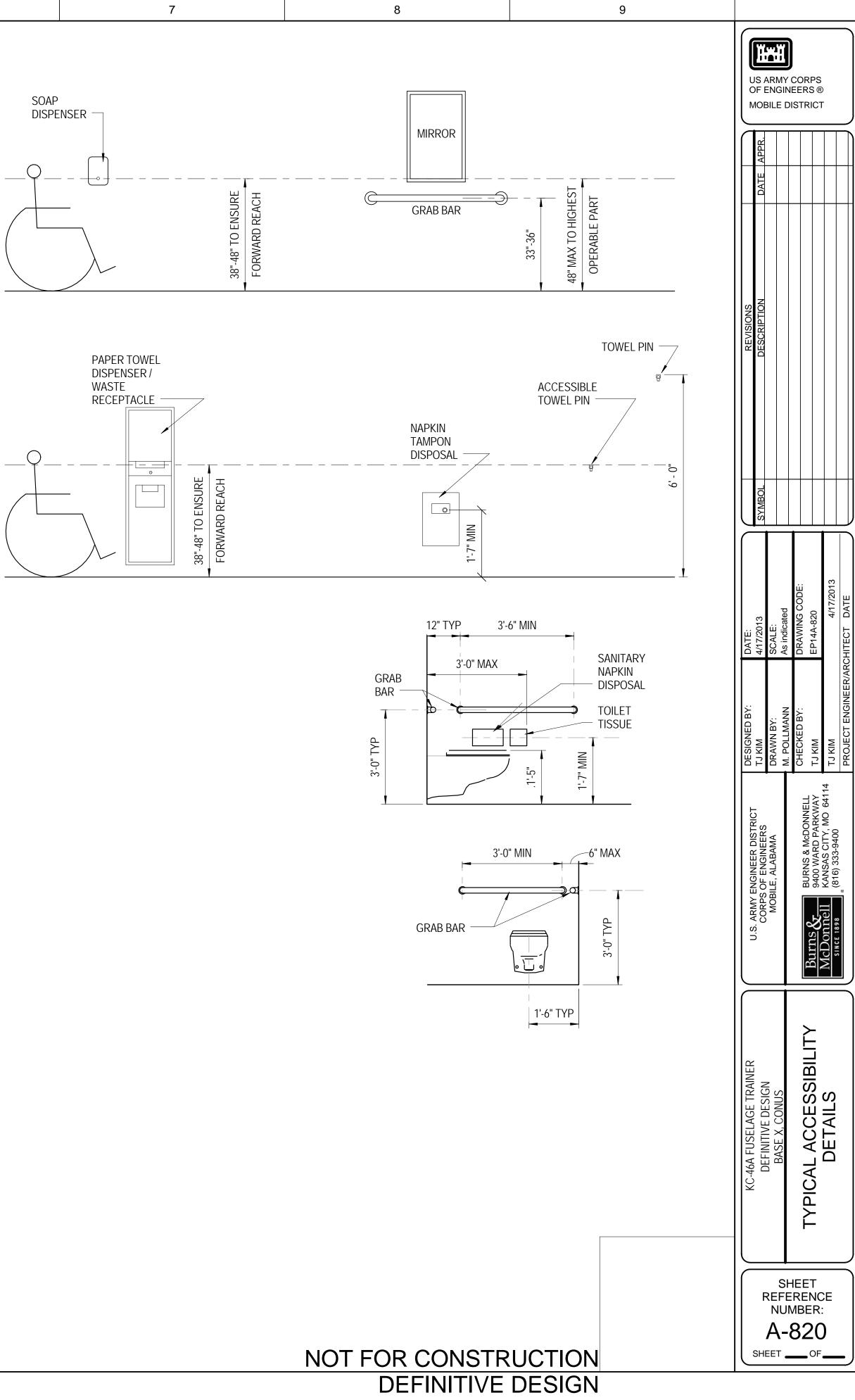
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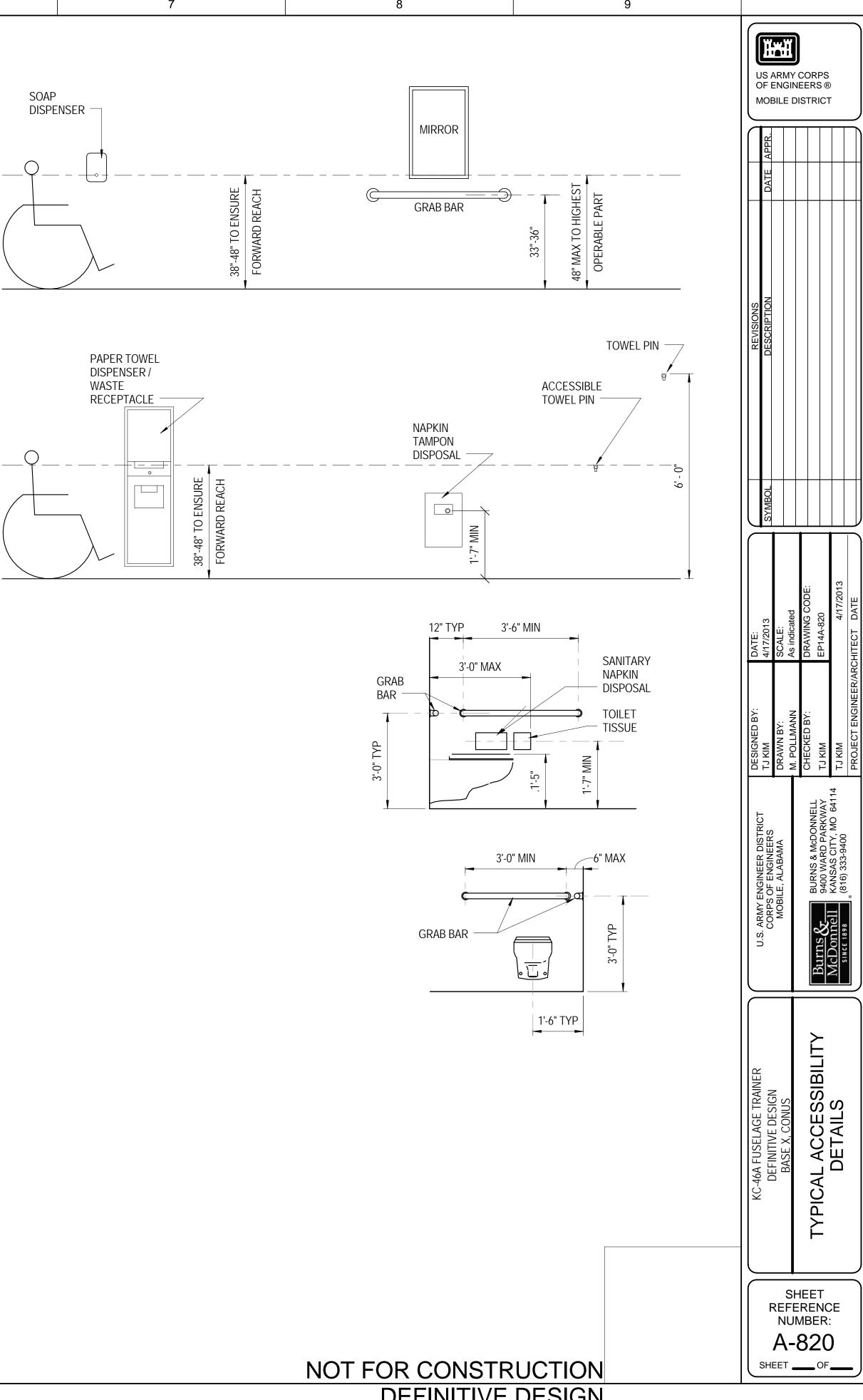
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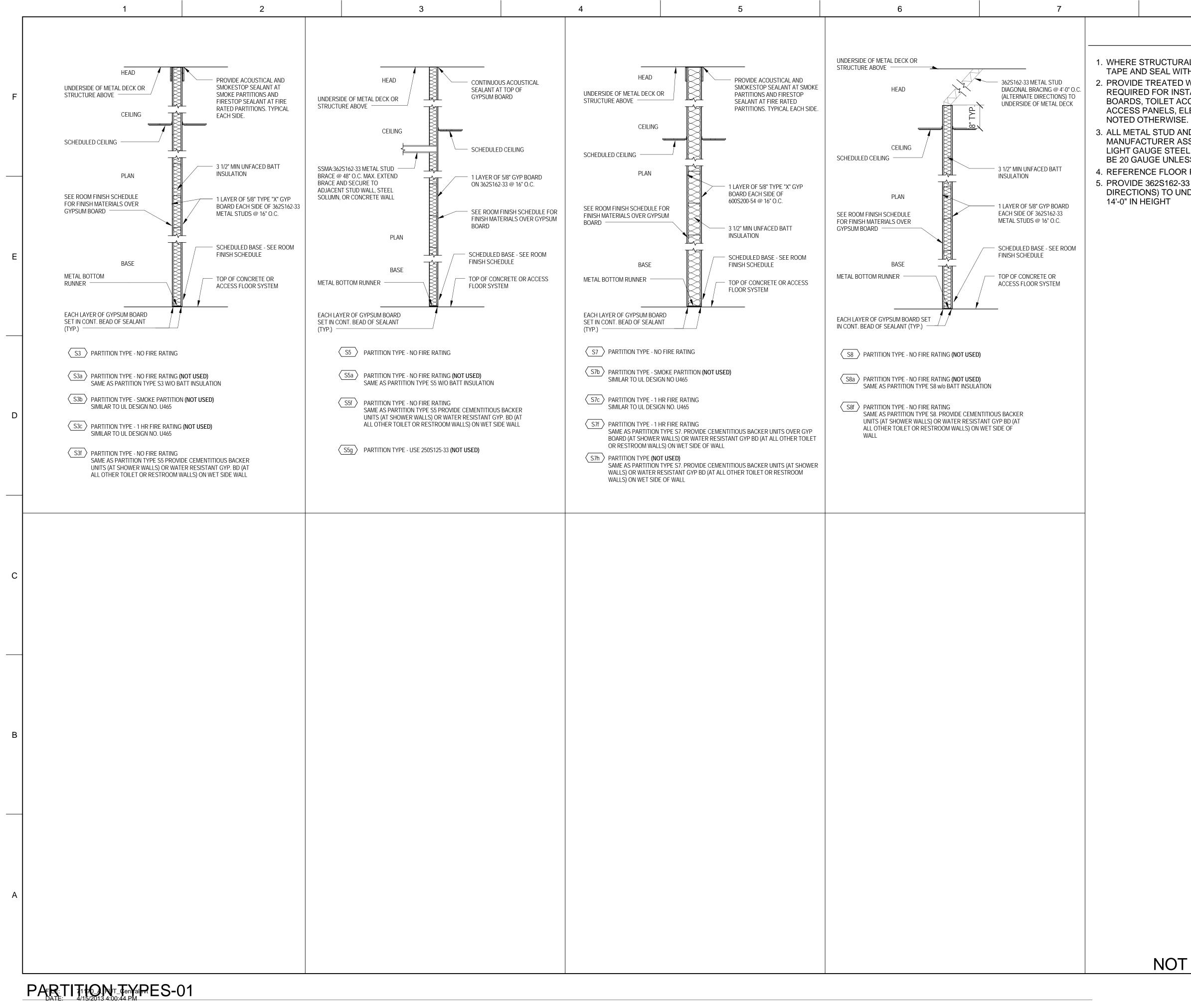
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OPYRIGHT © 2013 BURNS AND MCDONNELL ENGINEERING COMPANY, IN

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1. WHERE STRUCTURAL MEMBERS PENETRATE FIRE-RATED GYPSUM BOARD WALLS, TAPE AND SEAL WITH FIRE STOPPING SEALANT.

2. PROVIDE TREATED WOOD BLOCKING OR MINIMUM 20 GAUGE METAL BACKING AS REQUIRED FOR INSTALLATION OF FIRE EXTINGUISHER CABINETS. MESSAGE BOARDS, TOILET ACCESSORIES, TOILET PARTITIONS, WALL AND BASE CABINETS, ACCESS PANELS, ELECTRICAL AND FIRE PROTECTION SYSTEM PANELS, UNLESS

3. ALL METAL STUD AND FURRING DESIGNATIONS ARE THE STEEL STUD

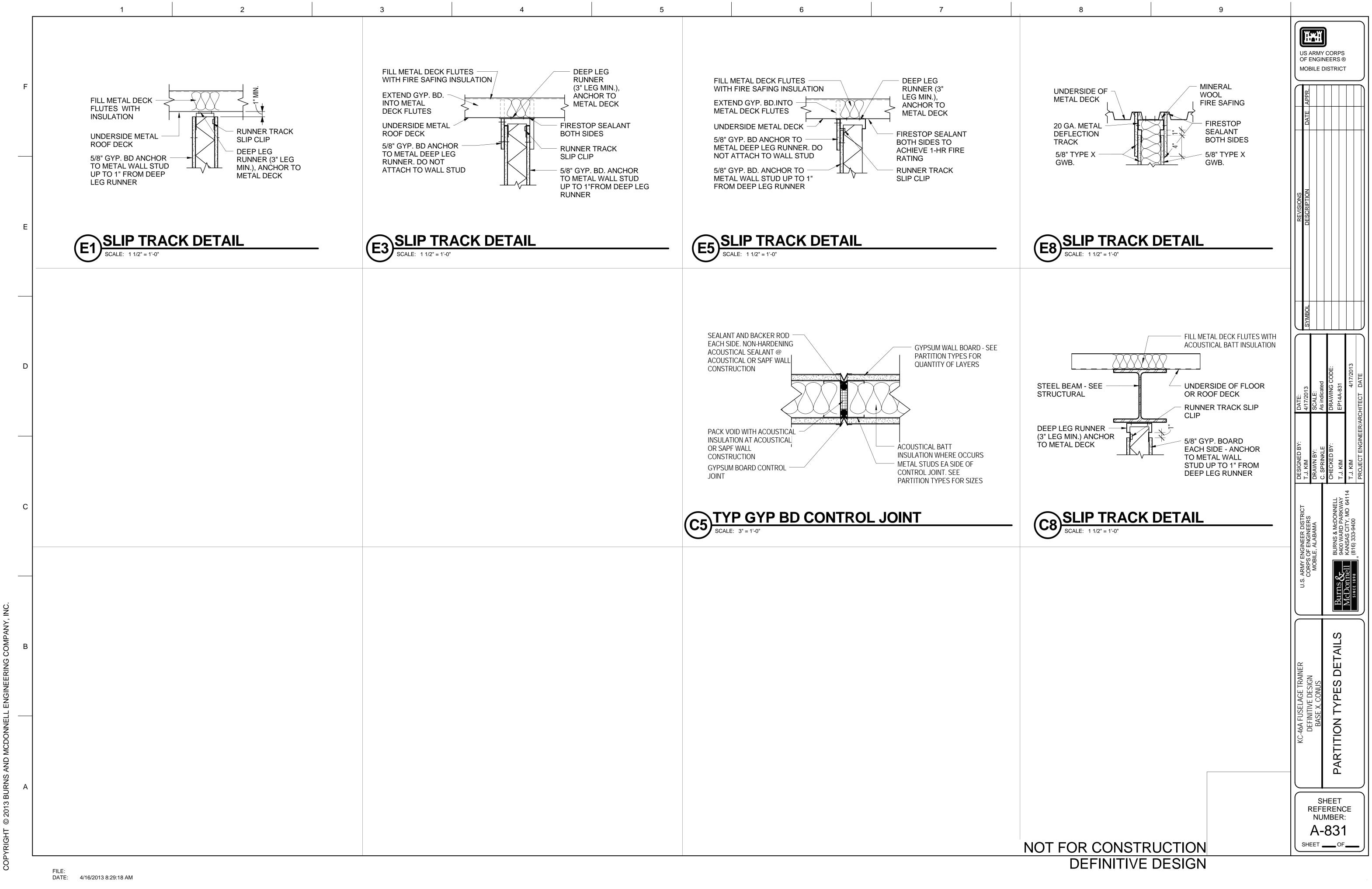
MANUFACTURER ASSOCIATIONS (SSMA) UNIVERSAL DESIGNATOR SYSTEM FOR LIGHT GAUGE STEEL FRAMING MEMBERS. ALL METAL STUDS AND BRACING SHALL BE 20 GAUGE UNLESS NOTED OTHERWISE.

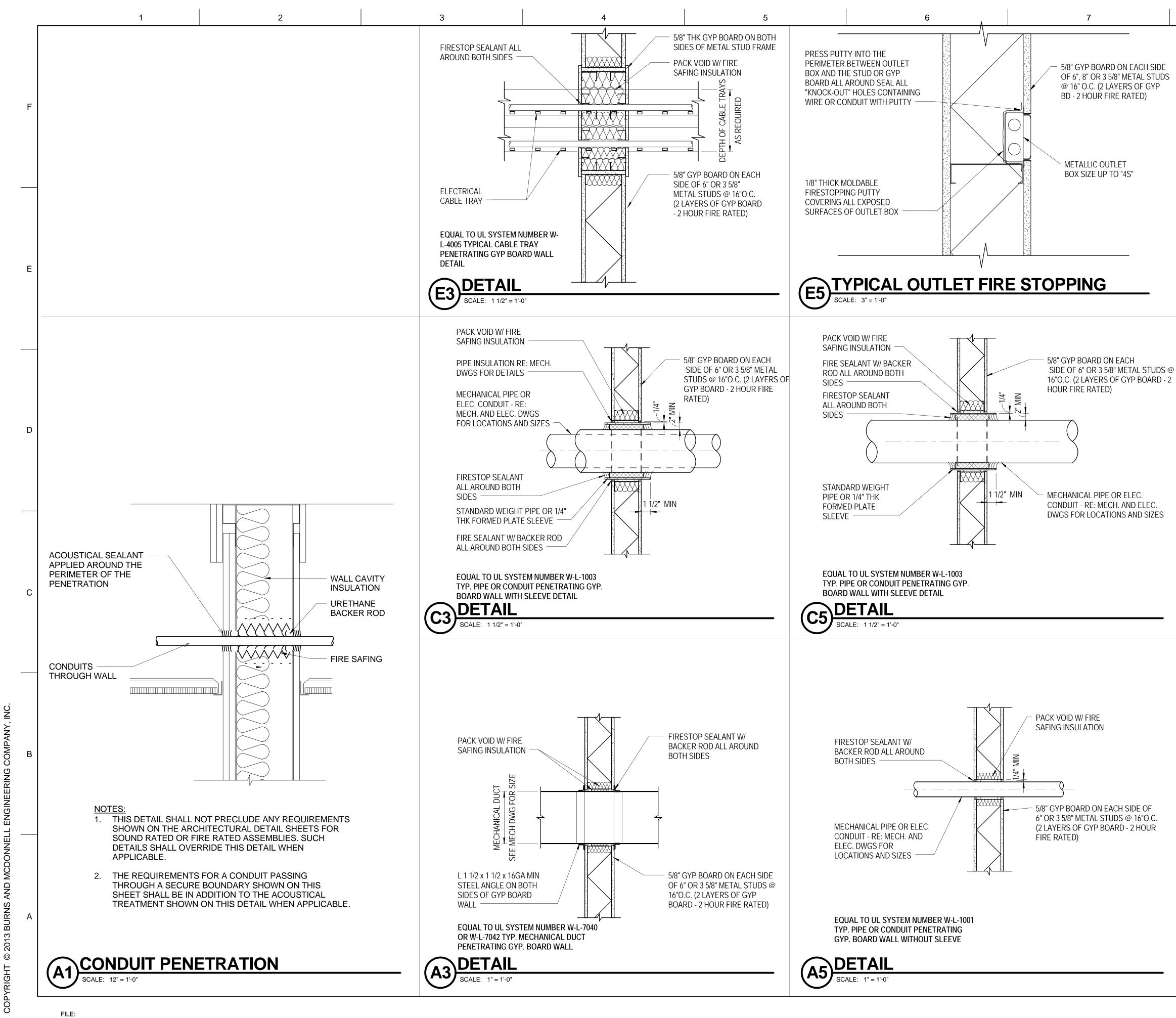
4. REFERENCE FLOOR PLANS FOR PARTITION TYPE LOCATIONS.

5. PROVIDE 362S162-33 METAL STUD DIAGONAL BRACING @ 4'-0" O.C. (ALTERNATE DIRECTIONS) TO UNDERSIDE OF METAL DECK FOR ALL WALLS GREATER THAN 14'-0" IN HEIGHT

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REVISIONS	DESCRIPTION								
	SYMBOL								
DATE:	13						EP14A-830	2/19/2013	
DESIGNED BY:							T.J. KIM	T.J. KIM	
IIS ABMY ENGINEED DISTRICT	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA DRA					BURNS & MCDONNELL	9400 WARD PARKWAY	NICDONNEIL KANSAS CITY, MO 64114	
KC-46A FUSELAGE TRAINER	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS								
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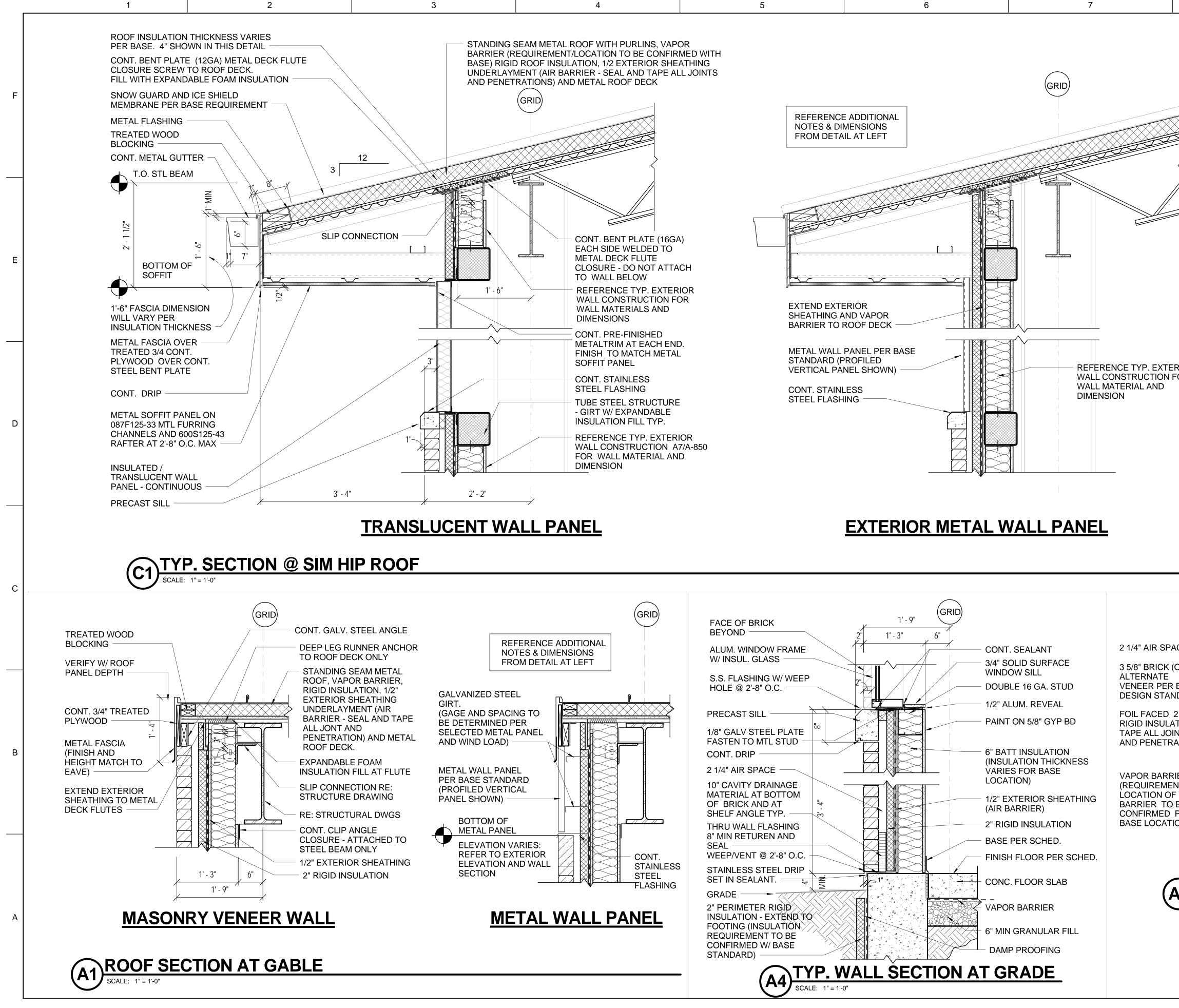
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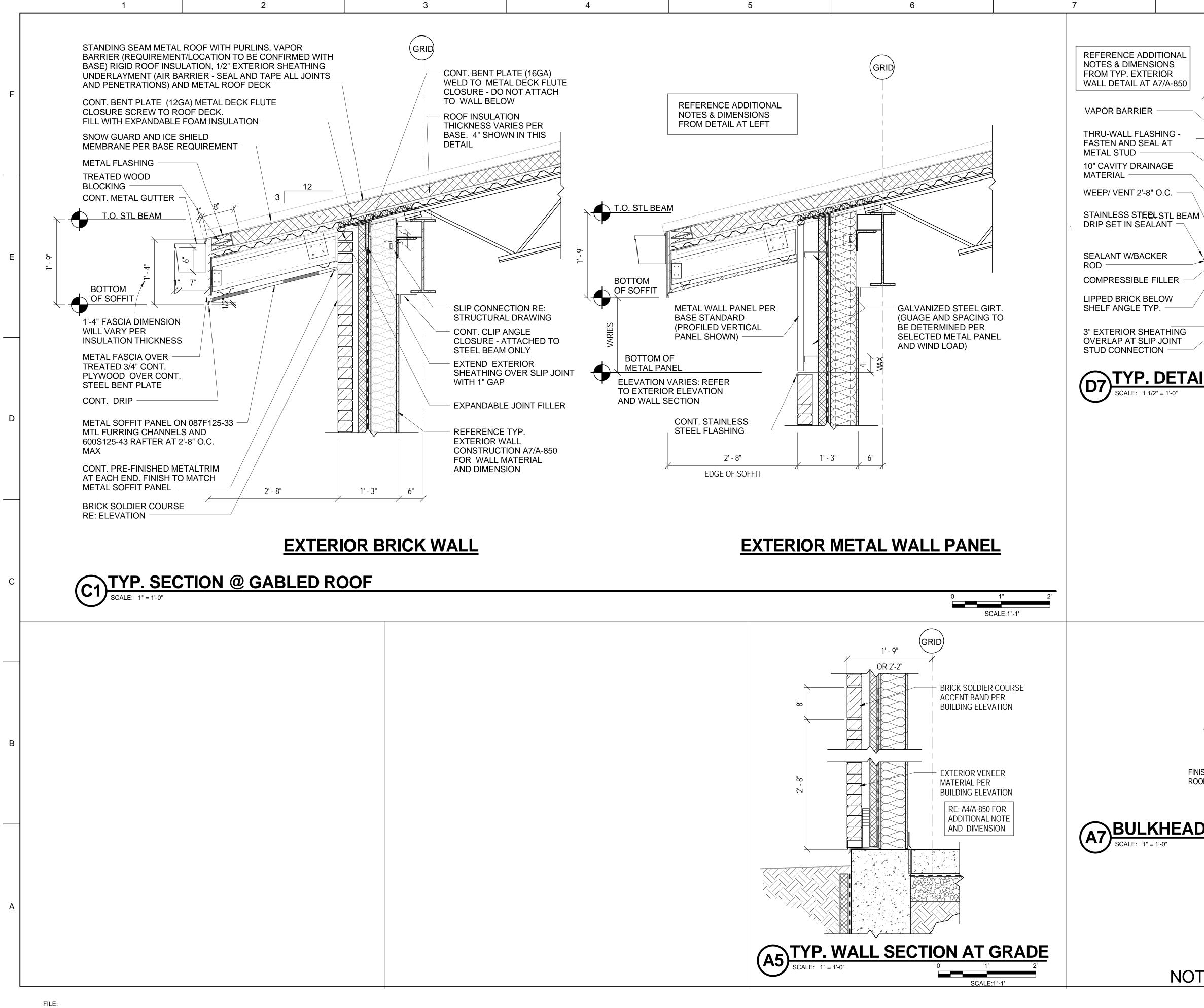


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GENERAL NOTES	
1. CAUTION: THE PURPOSE OF THIS SHEET IS TO DESCRIBE TYPICAL DETAILS USED IN CONJUNCTION WITH THE METAL FRAMED PARTITION SYSTEM. AS A DRAWING INTENDED TO ILLUSTRATE AN OVERALL SYSTEM OF CONSTRUCTION, THIS SHEET MAY SHOW DETAILS WICH DO NOT APPLY TO THE WORK OF THIS PROJECT. REFER TO THE FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, AND DETAILS TO DETERMINE WHICH CONDITIONS EXIST AND WHICH DETAILS APPLY. NOT ALL DETAILS SHOWN ARE USED.	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
 THE "PRIORITY" OF PARTITIONS OF DIFFERENT TYPES IS DETERMINED AS FOLLOWS: FIRE-RATED PARTITIONS HAVE PRIORITY OVER NON-RATED PARTITIONS. PARTITIONS WITH GREATER FIRE-RATINGS HAVE PRIORITY OVER PARTITIONS WITH LESSER FIRE-RATINGS. PROVIDE OUTLET BOX MOLDARIE EIDERTOPPING RUTTY MULLERE 	DATE
3. PROVIDE OUTLET BOX MOLDABLE FIRESTOPPING PUTTY WHERE: AGGREGATE SURFACE AREA OF OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF CONTINUOUS WALL SURFACE. OUTLET BOXES ON OPPOSITE SIDES OF PARTITION SHALL BE SEPARATED (HORIZ DIM) BY LESS THAN 24 INCHES.	DESCRIPTION
	SYMBOL
	DATE: DATE: 4/17/2013 SCALE: As indicated DRAWING CODE: EP14A-840 A/17/2013 ARCHITECT DATE
	DESIGNED BY: DATE: TJ KIM 4/17/20 A/17/20 4/17/20 DRAWN BY: A/17/20 A: BERKE As indic A. BERKE As indic A: BERKE As indic A: BERKE As indic A: BERKE Brawi B: B: B: Brawi B: B: B: B: B: B: B: B: B: B: B: B:
	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400
	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS TYPICAL PENETRATION DETAILS
JOT FOR CONSTRUCTION	SHEET REFERENCE NUMBER: A-840 SHEETOF
DEFINITIVE DESIGN	



GRID GRID				
PACE (OR R BASE NDARD) 2.2 ATON DATON DET PL EXT WALL CONSTRUCTION THE STRUCTURE RETAID DE DER DER TON DET PL EXT WALL CONSTRUCTION NOT FOR CONSTRUCTION			OF ENGIN MOBILE I	NEERS ®
A COR SING	FRIOR		3Y: DATE: 4/17/2013 SCALE: 1" = 1'-0"	ED BY: DRAWING EP14A-8 CT ENGINEER/ARCHITECT
ATION OINT RATION PROVIDE COLUMN COVER WHERE FINISH CEILING IS PROVIDED - 5/8" GYP. BD ON SSMA: 2505125-33 METAL STUD AT 16" ON CENTER NO GYP. BD BEHIND COLUMN IF COLUMN COVER IS PROVIDED. 1/2" EXTERIOR SHEATHING (AIR BARRIER - SEAL AND TAPE ALL JOINT AND PENETRATION) SCALE: 1"=1'0" NOT FOR CONSTRUCTION	PACE (OR E R BASE ANDARD)	INSULATION (INSULATION THICKNESS VARIES PER BASE LOCATION) - 5/8" GYPSUM WALL BOARD - STEEL STRUCTURE	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	& nell
NOT FOR CONSTRUCTION	ATION OINT RATION RRIER IENT AND OF VAPOR O BE D PER TION) 1'-3" 6" (TYP) 11" (AT SIM BAY)	 WHERE FINISH CEILING IS PROVIDED - 5/8" GYP. BD ON SSMA: 250S125-33 METAL STUD AT 16" ON CENTER NO GYP.BD BEHIND COLUMN IF COLUMN COVER IS PROVIDED. 1/2" EXTERIOR SHEATHING (AIR BARRIER - SEAL AND TAPE ALL JOINT AND PENETRATION) 	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	MISCELLANEOUS DETAILS
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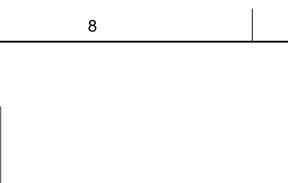
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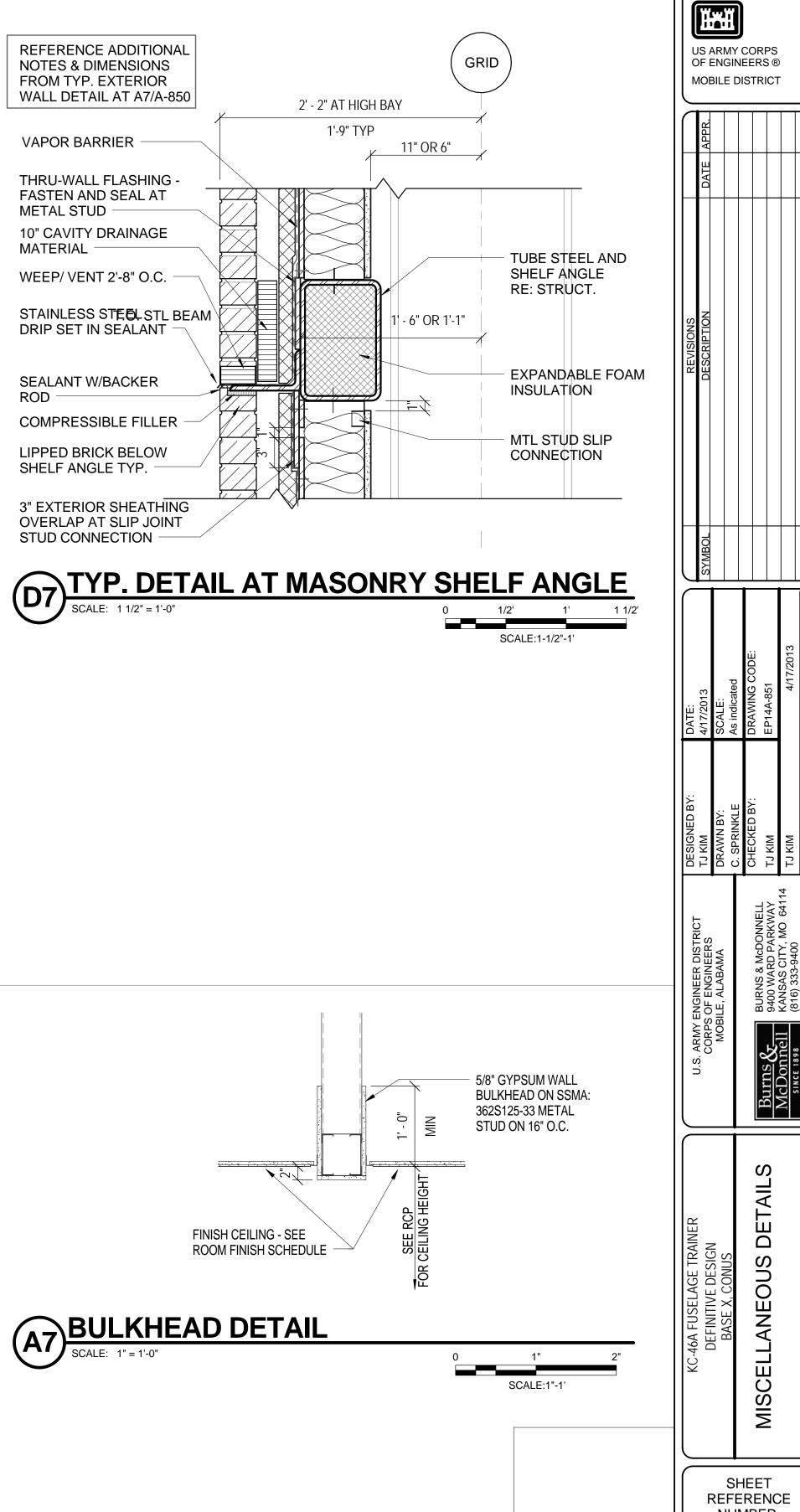
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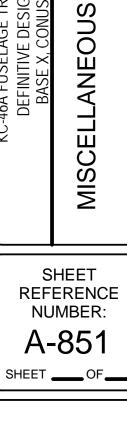
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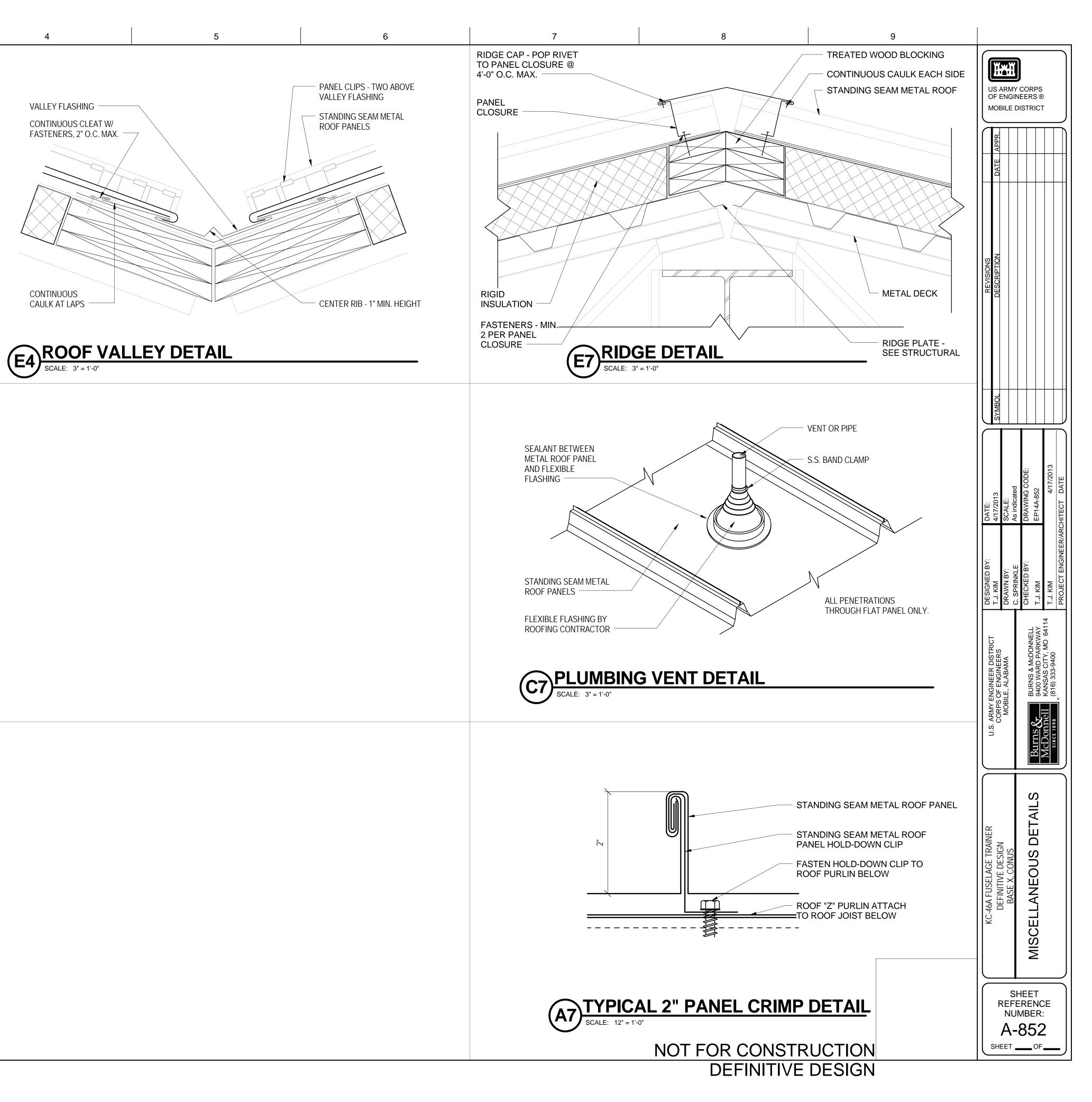




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	\boxtimes	SQUARE OR	RECT. SUPPL	Y DIFFUSER			MECHANICAL
в	\square	RETURN AIR	DIFFUSER		24x12 RE	ECTANGUI AR III	JCT DIMENSION (I
	\triangleright	EXHAUST AI	R DIFFUSER		24x12 FO FL 12"Ø R0	AT OVAL DUCT I	DIMENSION (INCH ENSION
	T	THERMOSTA	λT		AHU AI	BOVE FINISHED F	IT
	¢O2	CARBON DIC	DXIDE MONITO	DR	CUH C/	OTTOM OF DUCT ABINET UNIT HEA OWN	
	H	HUMIDISTAT	-		EL EL	_EVATION _BOW	
		LINEAR SLO	T SUPPLY DIFI	FUSER	EA E> EG E>	KHAUST AIR KHAUST GRILLE	
	VAV-	VARIABLE AI	IR VOLUME TE	ERMINAL BOX	F FA	KHAUST REGISTE AN	ĒR
А	(3'-0")	FINNED TUB	E RADIATION.	LENGTH OF	FF FL	AN COIL UNIT .AT FACED .AT OVAL	
	۶-[]-۶		HOWN IN PARE		FOB FL	AT ON BOTTOM	
	ESS	EMERGENC	Y SHUT-OFF S'	WITCH	HHWS HE HHWR HE	EATING HOT WAT EATING HOT WAT	FER RETURN
	Μ	MOTOR				OT WATER BOILE OT WATER PUMP	

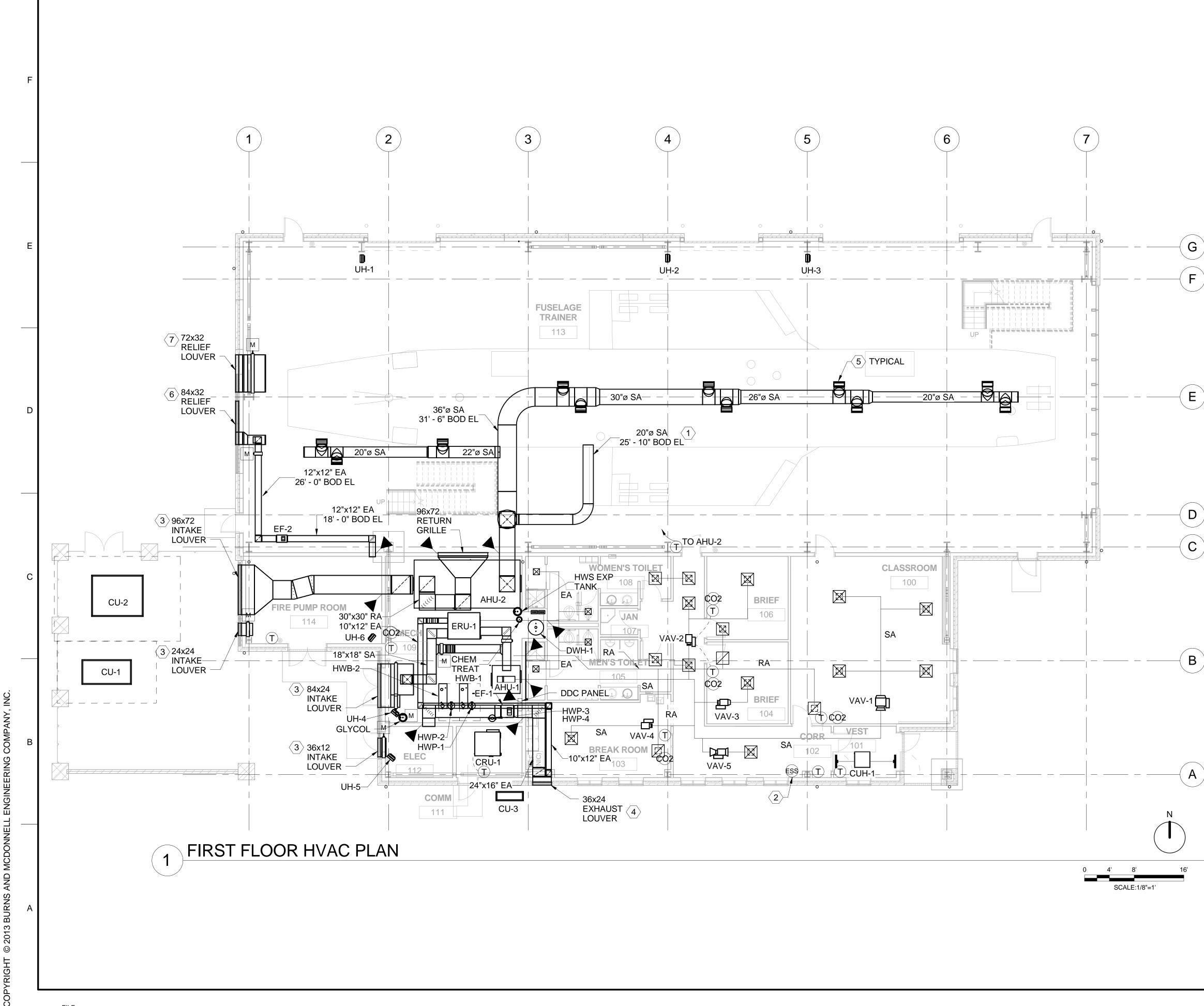
PPELIALACCESSORES	4		5	6	7	8
Control C	PIPE LINE ACCESS		THERMOMETER BACKFLOW PREVENTION ASSEMBLY SELF CONTAINED PRESSURE REDUCING (REGULATING) VALVE PRESSURE GAUGE Y-TYPE STRAINER REMOVABLE CAP REDUCER (CONCENTRIC) REDUCER (ECCENTRIC) UNION BLIND FLANGE TEST CONNECTION COMPONENTS TO BE FURNISHED WITH EQUIPMENT	DEFINITIVE DE ASSUMPTIONS 1. REDUND 2. MULTIPL TONS, BU BASIS OF DESIG 1. REFER TO DESIGN. 2. THE DEFIN COOLING FINAL SYS 3. ESTIMATE ARE TO BE 4. GEOGRAP SYSTEMS LOADS FR 5. POTENTIA a. b. c. d.	S: DANT SYSTEMS FOR HEATING AND C LE SYSTEMS ARE USED FOR COMPU- BUT ARE NOT REDUNDANT. GN: D THE DESIGN ANALYSIS FOR APPLIC NITIVE MECHANICAL DESIGN IS BASE PROVIDED BY CONDENSING UNITS A STEM DETERMINATION ON RESULTS ED LOADS HAVE BEEN USED FOR THI E SUBSTITUTED. PHICAL LOCATION, SCHEDULE OF BU S DEPICTED ARE BASED ON AN ASSU ROM CLIMATE ZONE 7. AL MECHANICAL SYSTEMS FOR CONS VARIABLE AIR VOLUME (VAV) i. ENERGY RECOVERY ii. DEMAND CONTROL VE DEDICATED OUTDOOR AIR (DOAS) GROUND SOURCE HEAT PUMPS CHILLED WATER (AIR COOLED CHI HOT WATER HEATING	COOLING THE BUILDING ARE NOT REQU TER ROOMS AND COMM EQUIPMENT F CABLE STANDARDS AND CODES USED ED UPON A VARIABLE AIR VOLUME AIR AND HEATING FROM HOT WATER BOIL OF A LIFE CYCLE COST ANALYSIS. E COMM ROOM EQUIPMENT. ACTUAL L JILDING OPERATIONS, UTILITY RATES / IMED POPULATION AND USE PRELIMIN SIDERATION IN LIFE CYCLE COST ANAL ENTILATION)
MECHANICAL ABBREVIATIONS L LOUVER 0F FANS AND VAV BOXES TO HAVE 1.0 IN. W.C. POSITIVE PRESSURE AND DUCTS (1.0 IN. W.C. NEGATIVE PRESSURE CLASSIFICATIONS. DUCTS ON OUTLET SIDE OF 3 PRESSURE CLASSIFICATIONS. DUCTS ON OUTLET SIDE OF 3 PRESSURE CLASS DUCT. JOT DIMENSION (INCHES) MA MIXED AIR 11. LOCATE TRANSFER AIR DUCTS AND OPENINGS 24" ABOVE HIGHEST CEILING ELEV DIMENSION (INCHES) MA MIXED AIR 11. LOCATE TRANSFER AIR DUCTS AND OPENINGS 24" ABOVE HIGHEST CEILING ELEV DIMENSION (INCHES) NO NORMALLY OPEN (FAIL POSITION) 12. COORDINATE AILL AND ROOF PENETRATIONS WITH STRUCTURAL AND ARCH FLOOR FLOOR NO NORMALLY OPEN (FAIL POSITION) 13. INSTALL TEMPERATURE CONTROLS AT 48" ABOVE FINISHED FLOOR AND COORDIN WALLS. COORDINATE WITH ARCHITECTURAL WALL FINISHES. ATER PB PARALLEL BLADE 13. INSTALL TEMPERATURE CONTROLS AT 48" ABOVE FINISHED FLOOR AND COORDIN WALLS. COORDINATE WITH ARCHITECTURAL WALL FINISHES. ATER PB PARALLEL BLADE 14. PROVIDE STRUCTURAL EQUIPMENT PADS IN ACCORDANCE WITH DETAIL IN STRUCTURAL PSIA POUNDS PER SQUARE INCH GAS DISCHARGE ER SCH SCH SCHEDULE SR SUPPLY REGISTER TOD 14. PROVIDE STRUCTURAL EQUIPMENT PADS IN ACCORDANCE WITH DETAIL IN STRUCTURAL PROVIDE STRUCTURAL EQUIPMENT PADS IN ACCORDANCE WITH DETAIL IN STRUCTURAL PROVIDE STRUCTURAL EQUIPMENT PADS IN ACCORDANCE WITH DETAIL IN STRUCTURAL PROVIDE STRUCTURAL EQUIPMENT PADS IN ACCORDANCE WITH DETAIL IN STRUCTURAL PROVIDE STRUCTURAL EQUIP			A 175 CFM AIR FLOW NOTE: NECK SIZE AS INDICATED ON TAIL/SECTION CALLOUT SYMBOL INDICATES LIMITS OF DETAIL/SECTION INDICATES PERSPECTIVE OF DETAIL/SECTION DETAIL/SECTION DETAIL/SECTION DETAIL/SECTION DESIGNATOR DRAWING WHERE DETAIL/SECTION IS	GENERAL NOTE 1. LEGEND IS SPECIFIC S 2. PROVIDE A COMPLETE CODE. 2. PROVIDE A COMPLETE CODE. 3. INSTALL AL RECOMMENT 4. COORDINA OTHER COM 5. MAINTAIN A IN MECHAN 6. LOCATE AL OTHERWIS 7. VERIFY DIN OTHERWIS 8. ALL ELEVA OTHERWIS 9. DUCT DIME DIMENSION AIR OPENIN	ECONOMIZER (AIR SIDE AND WATH ES: S GENERAL IN NATURE AND MAY INDI- SYMBOLS AND ABBREVIATIONS. ALL MATERIALS, VALVES, HANGERS, E AND OPERABLE MECHANICAL SYST LL MECHANICAL EQUIPMENT AND AP ENDATIONS, CONTRACT DOCUMENTS ATE CONSTRUCTION OF ALL MECHAN DATIONS, CONTRACT DOCUMENTS ATE CONSTRUCTION OF ALL MECHAN NTRACT DOCUMENT DRAWINGS. A MINIMUM OF 6'-8" CLEARANCE TO UN NICAL ROOMS. LL MECHANICAL EQUIPMENT FOR UN MENSIONS AND CONNECTION SIZE WA ATIONS ARE ABOVE FINISHED FLOOR SE. ENSIONS INDICATED REFER TO SHEE N PLUS THE THICKNESS OF ACOUST NG SIZE AND SHEET METAL SIZE SH/	ICATE MORE INFORMATION THAN IS A ETC. AND EQUIPMENT AND PERFORM TEMS AS INDICATED ON THE DRAWING PPURTENANCES IN ACCORDANCE WITH S, AND APPLICABLE CODES AND REGU NICAL WORK WITH STRUCTURAL, CIVIL UNDERSIDE OF PIPES, CONDUITS, ETC NOBSTRUCTED ACCESS TO UNIT ACCE VITH FURNISHED EQUIPMENT. & TO BOTTOM OF DUCT, PIPE, OR PIPE ET METAL DIMENSIONS. SHEET METAI ICAL LINER WHERE LINER IS INSTALLE ALL BE THE SAME.
R	JCT DIMENSION (INCHES) DIMENSION (INCHES) ENSION FLOOR IT ATER ER ER	L MA NC NO OA OB PB PSIA PSIG RA PSIG RA RG SCH SA SR TOC TOD TOS UH V	MIXED AIR NORMALLY CLOSED (FAIL POSITION) NORMALLY OPEN (FAIL POSITION) OUTSIDE AIR OPPOSED BLADE PARALLEL BLADE POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE RETURN AIR REFRIGERAT HOT GAS DISCHARGE SCHEDULE SUPPLY AIR SUPPLY REGISTER TOP OF CONCRETE TOP OF DUCT TOP OF STEEL UNIT HEATER VENT	OF FANS A 1.0 IN. W.C. PRESSURE 11. LOCATE TR 12. COORDINA 13. INSTALL TE WALLS. CO	AND VAV BOXES TO HAVE 1.0 IN. W.C. E. NEGATIVE PRESSURE CLASSIFICAT E CLASS DUCT. RANSFER AIR DUCTS AND OPENINGS ATE ALL WALL AND ROOF PENETRATI EMPERATURE CONTROLS AT 48" ABC OORDINATE WITH ARCHITECTURAL V	. POSITIVE PRESSURE AND DUCTS ON TIONS. DUCTS ON OUTLET SIDE OF AH S 24" ABOVE HIGHEST CEILING ELEVAT TIONS WITH STRUCTURAL AND ARCHIT OVE FINISHED FLOOR AND COORDINAT

IG THE BUILDING ARE NOT REQUIRED. OOMS AND COMM EQUIPMENT ROOMS THAT HAVE A HEAT LOAD OF OVER 5	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
STANDARDS AND CODES USED IN THE DEVELOPMENT OF THIS DEFINITIVE ON A VARIABLE AIR VOLUME AIR SIDE SYSTEM FOR THE BUILDING WITH EATING FROM HOT WATER BOILERS. MECHANICAL DESIGNER SHALL BASE LIFE CYCLE COST ANALYSIS. IM ROOM EQUIPMENT. ACTUAL LOADS FROM THE EQUIPMENT PROVIDER G OPERATIONS, UTILITY RATES AND FINAL OCCUPANCY ARE UNKNOWN. THE POPULATION AND USE PRELIMINARY HEATING AND COOLING EQUIPMENT ATION IN LIFE CYCLE COST ANALYSIS: S)	REVISIONS SYMBOL DESCRIPTION DATE APPR. Image: I
MORE INFORMATION THAN IS APPLICABLE TO PROJECT. SEE PLANS FOR AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY ENANCES IN ACCORDANCE WITH MANUFACTURERS APPLICABLE CODES AND REGULATIONS. WORK WITH STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON RSIDE OF PIPES, CONDUITS, ETC., THROUGHOUT ACCESS ROUTES AND RUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING. URNISHED EQUIPMENT. DTTOM OF DUCT, PIPE, OR PIPE INSULATION UNLESS NOTED TAL DIMENSIONS. SHEET METAL SIZE SHALL BE AIR OPENING INER WHERE LINER IS INSTALLED. WHERE LINER IS NOT INSTALLED, THE SAME. OTHERWISE INDICATED, CONSTRUCT DUCTS ON THE DISCHARGE SIDE	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMADESIGNED BY: T. KARREDATE: A/17/2013U.S. ARMY ENGINEERS CORPS OF ENGINEERS MOBILE, ALABAMADESIGNED BY: T. KARREDATE: A/17/2013MOBILE, ALABAMA MOBILE, ALABAMAT. KARREA/17/2013MOBILE, ALABAMA MOBILE, ALABAMADRAWN BY: T. KARREDATE: A/17/2013BURNS & MCDONNELL 9400 WARD PARKWAY MCDONABURNS & MCDONNELL (B16) 333-9400DATE: A/17/2013BURNS & MCDONNELL 9400 WARD PARKWAY (B16) 333-9400DESIGNED BY: T. KARREDATE: A/17/2013BURNS & MCDONNELL 9400 WARD PARKWAY (B16) 333-9400DESIGNED BY: T. KARREDATE: A/17/2013
TIVE PRESSURE AND DUCTS ON THE INLET SIDE OF EQUIPMENT TO HAVE DUCTS ON OUTLET SIDE OF AHU'S SHALL HAVE 3.0 INCH POSITIVE BOVE HIGHEST CEILING ELEVATION UNLESS OTHERWISE NOTED. WITH STRUCTURAL AND ARCHITECTURAL PLANS. NISHED FLOOR AND COORDINATE WITH OTHER DEVICES LOCATED ON FINISHES. DANCE WITH DETAIL IN STRUCTURAL DRAWINGS.	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS MECHANICAL LEGEND AND ABBREVIATIONS
NOT FOR CONSTRUCTION	SHEET REFERENCE NUMBER: M-001 Sheet of

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DEFINITIVE DESIGN

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Ν	OT	<u>ES:</u>

- SEE DRAWING M-001 FOR GENERAL NOTES, 1. LEGEND AND ABBREVIATIONS.
- SEE DEFINITIVE DESIGN NOTES ON M-001 FOR 2. DESIGNER INSTRUCTIONS AND NOTES FOR HOW TO USE THIS DRAWING.
- INDIVIDUAL ROOM AIRFLOWS TO BE 3. DETERMINED AFTER SITE SELECTION. DUCTWORK SIZES SHOWN ARE PRELIMINARY.
- FUSELAGE WITH EQUIPMENT PROVIDED.
- $\langle 2 \rangle$ HVAC EMEGENCY SHUTDOWN SWITCH.
- 3 BLANK OFF UNUSED LOUVER WITH INSULATED METAL PANEL.
- $\langle 4 \rangle$ CONNECT 24"x24" SECTION OF LOUVER TO DUCT FROM EF-1. CONNECT 12"x24" SECTION OF LOUVER TO DUCT FROM ERU-1.
- $\langle 5 \rangle$ SUPPLY AIR REGISTER ANGLED DOWNWARD.
- $\langle 6 \rangle$ CONNECT 24"x32" SECTION OF LOUVER TO EXHAUST DUCT FROM EF-2. 48"x32" SECTION OF LOUVER SHALL BE CONNECTED TO RELIEF DAMPER. SEE DETAIL A6 ON SHEET M-502 FOR RELIEF LOUVER WITH BOOT.
- $\langle 7 \rangle$ CONNECT 72"x32" SECTION OF LOUVER TO RELIEF DAMPER. SEE DETAIL A6 ON SHEET M-502 FOR RELIEF LOUVER WITH BOOT.

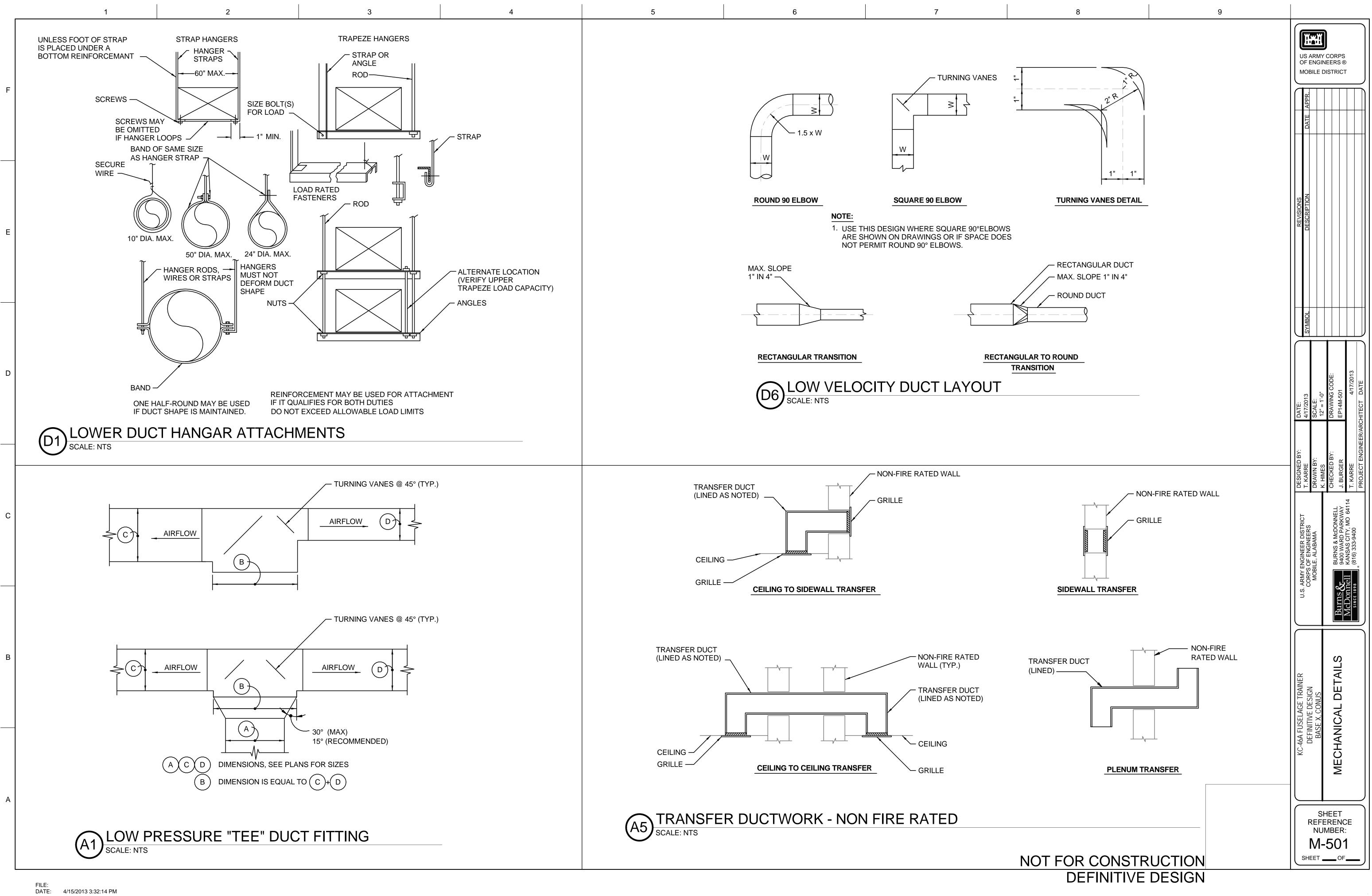
US ARMY OF ENGINE MOBILE DI	EERS®
APPR.	
DATE	
REVISIONS DESCRIPTION	
SYMBOL	
DATE: 4/17/2013 SCALE: 1/8" = 1'-0"	DRAWING CODE: 4/17/2013 CCHITECT DATE
DESIGNED BY: T. KARRE DRAWN BY: K. HIMES	CHECKED BY: DRAWING COD J. BURGER T. KARRE 4/17/2 PROJECT ENGINEER/ARCHITECT DATE
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA	Burns & Burns & McDonnell 9400 WARD PARKWAY McDonnell KANSAS CITY, MO 64114 since 1898
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	MECHANICAL HVAC PLAN

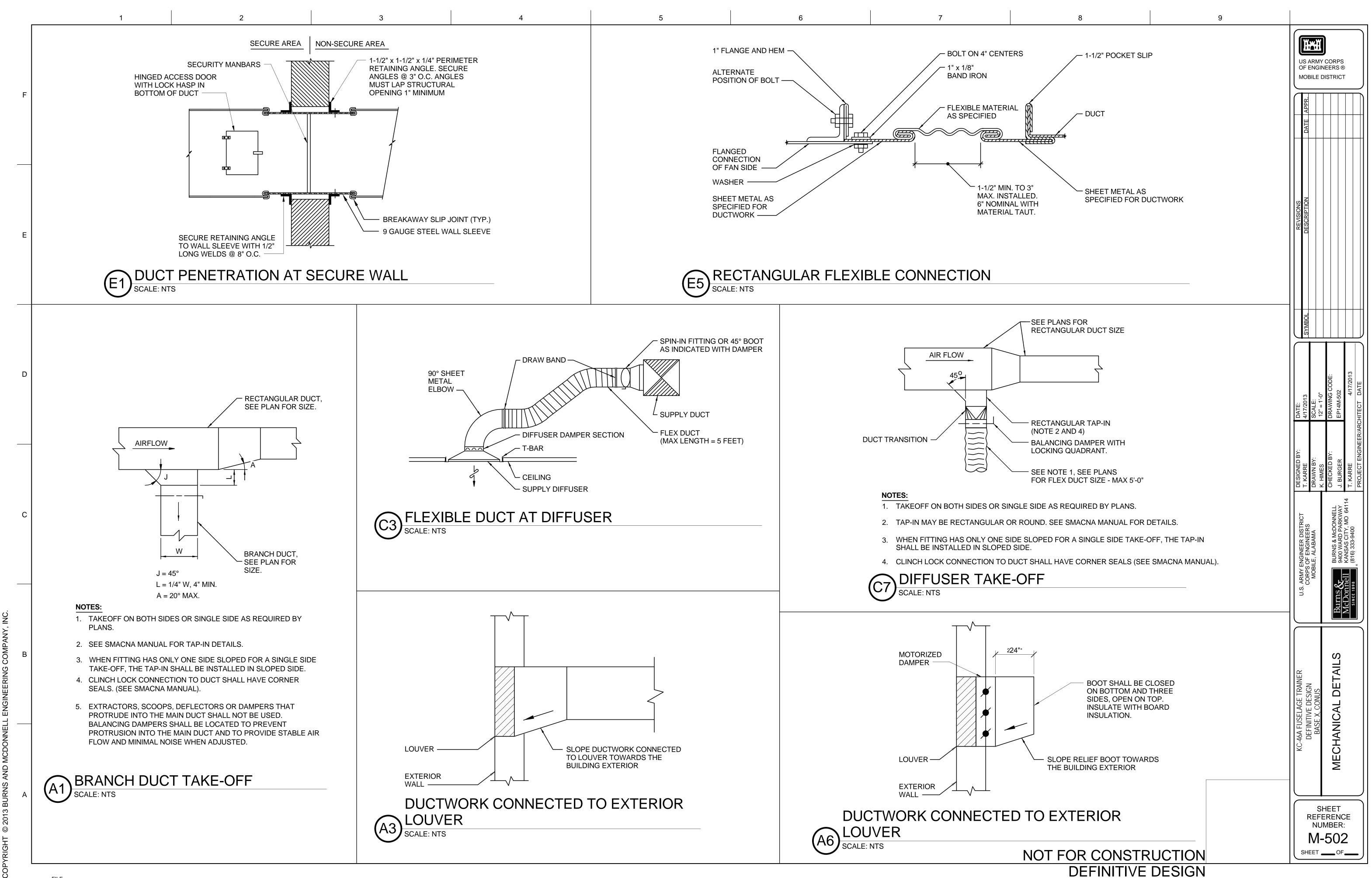
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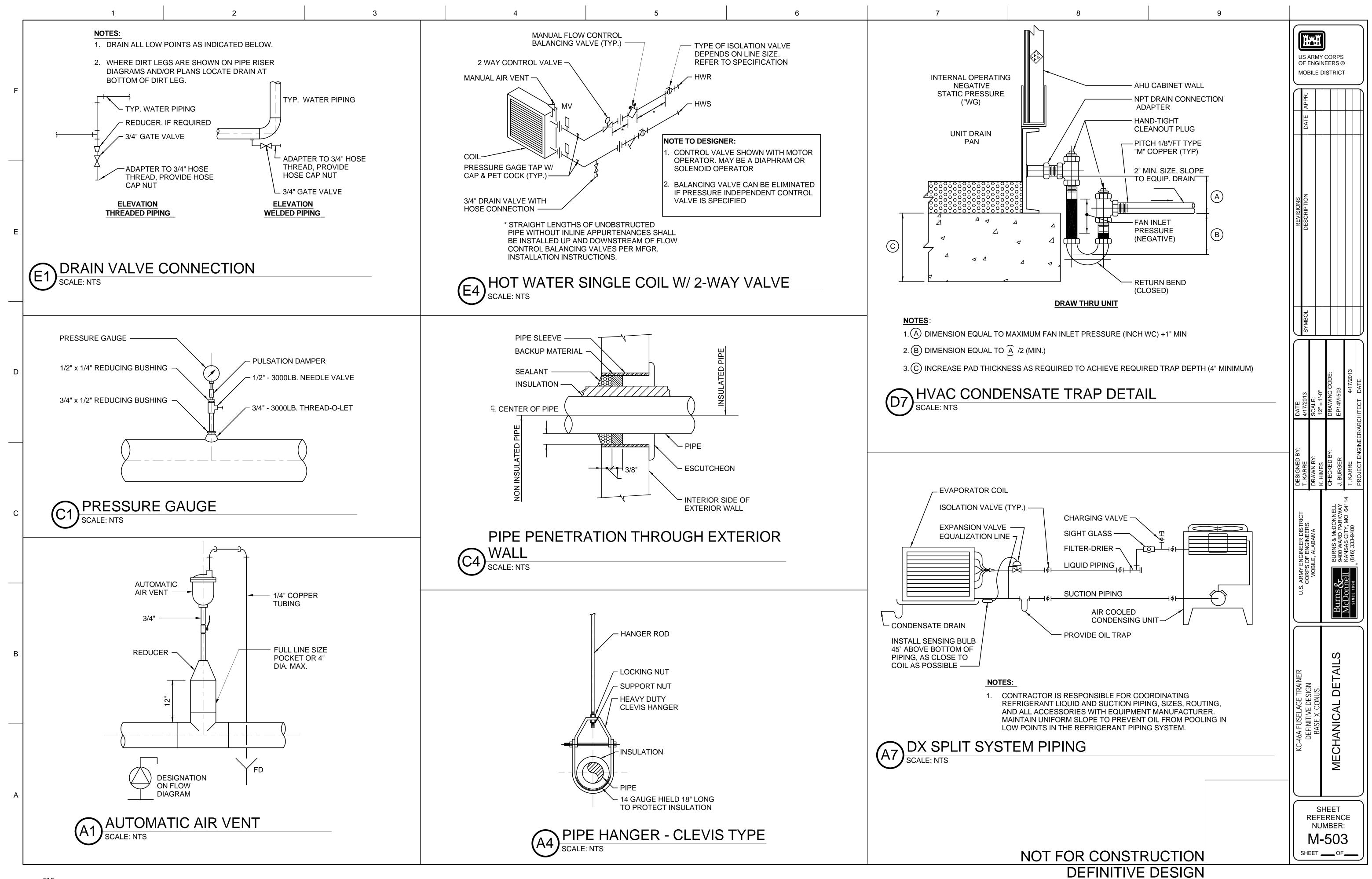
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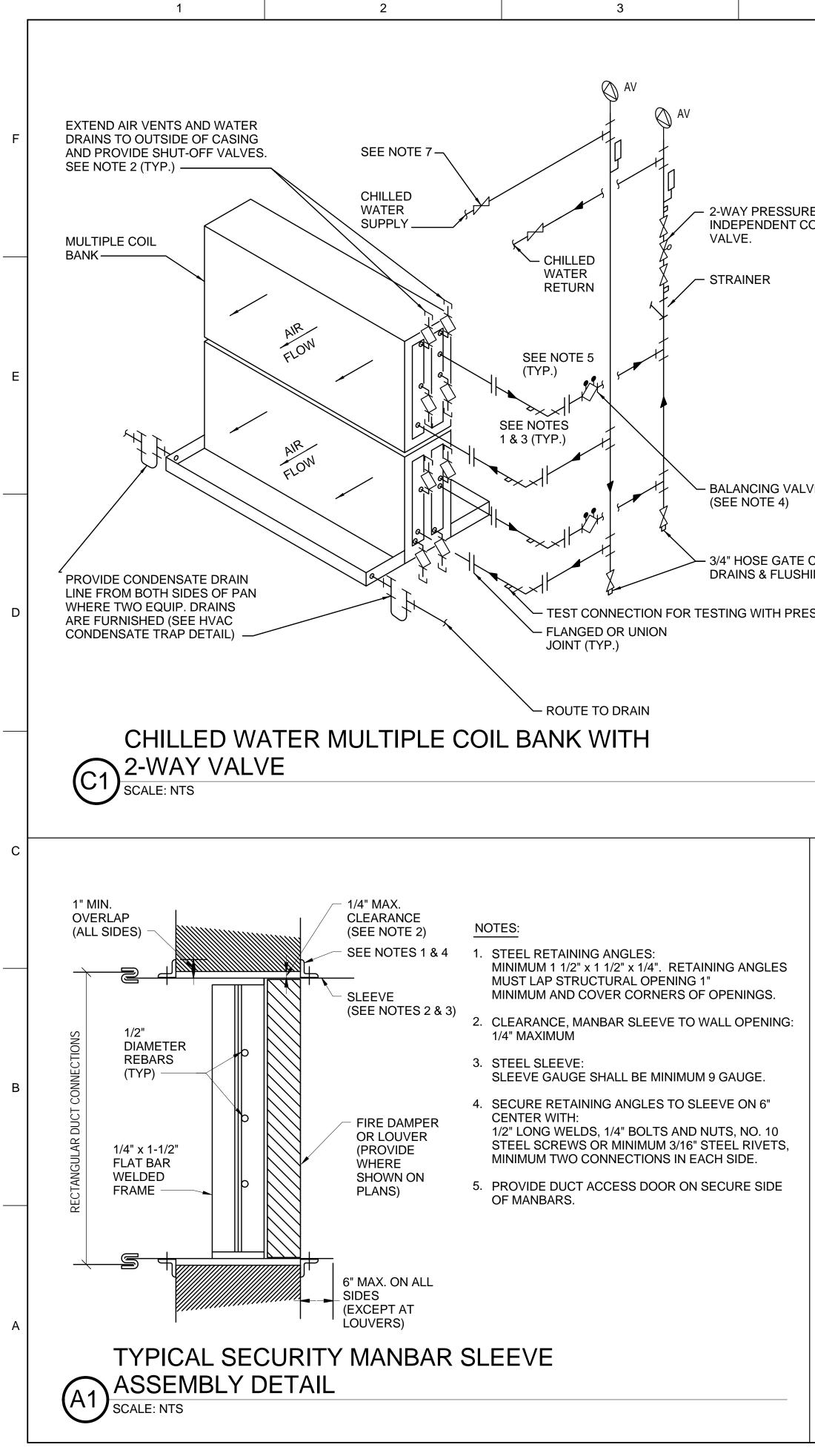






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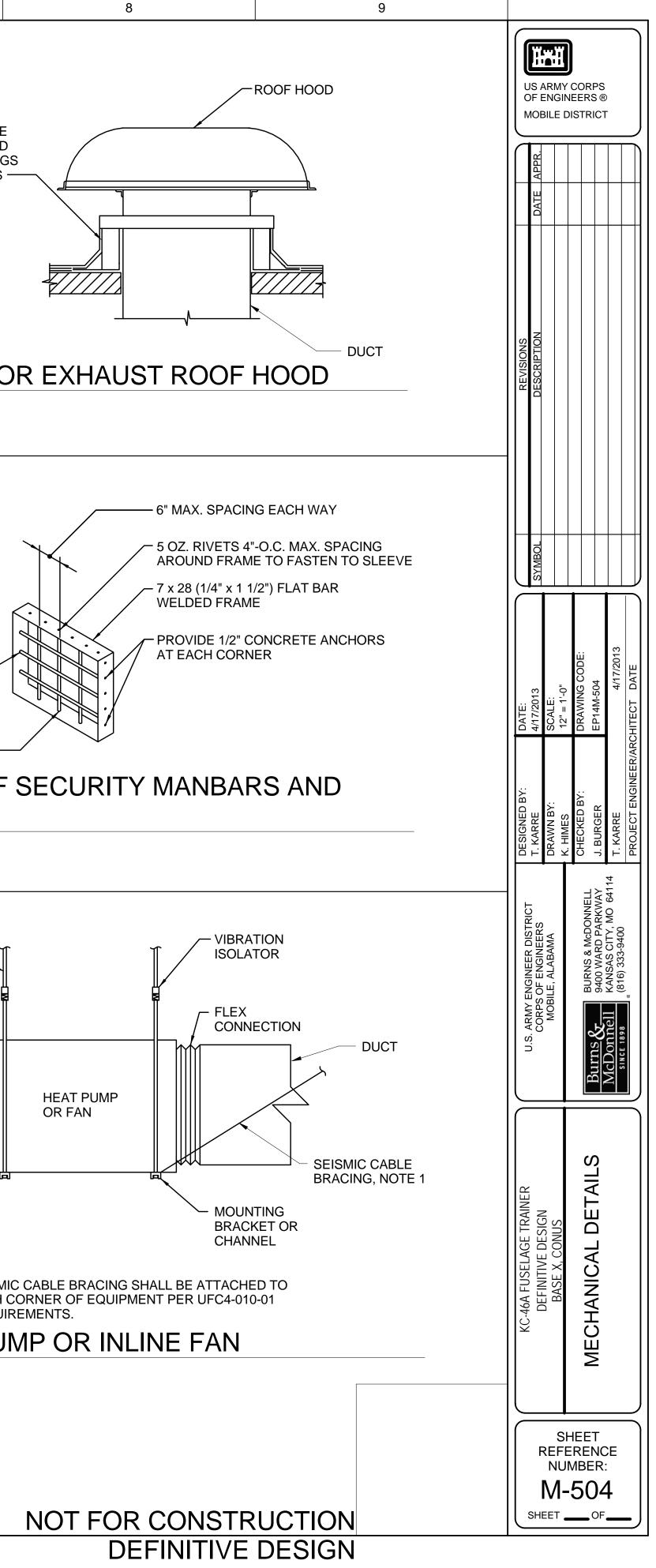
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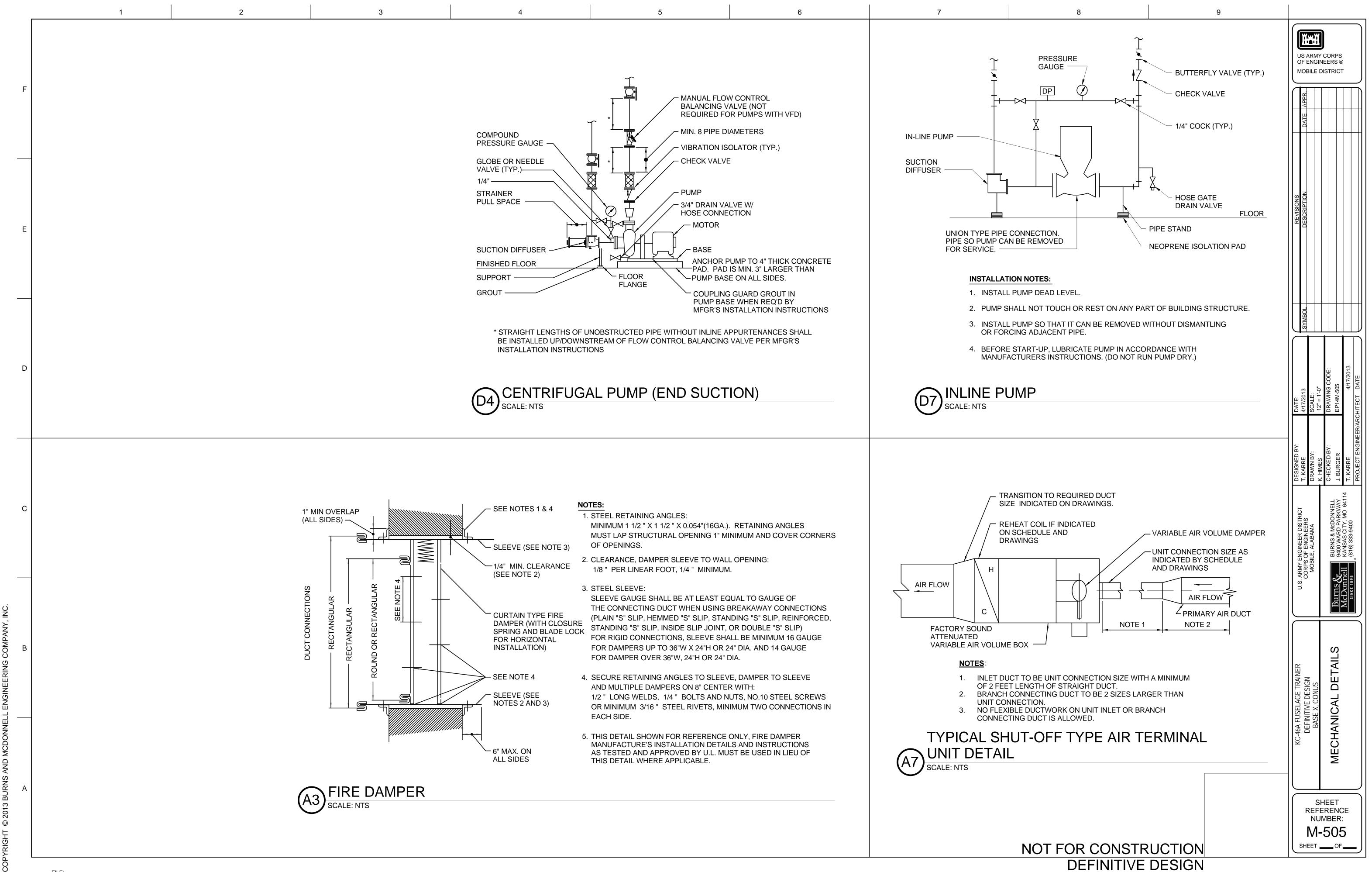
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	4	5		6	7	
RI	E DNTROL	 NOTES: 1. ALL COOLING COILS SHALL FLOW ARRANGEMENT. (CH NEAREST COIL FACE WHE 2. ALL COIL DRAIN AND VENT INSTALLED THROUGH HVA COMPLETE DRAINAGE AND OUTSIDE OF UNIT. 3. LOCATE VALVES & FLANGE DISCONNECTED AND COIL 	HILLED WATER ENTERS RE COLD AIR LEAVES.) CONNECTIONS TO BE C UNIT CASING TO PER O VENTING OF COILS FR	MIT OM	ROOF CURB, COORDINA W/EQUIPMENT FURNISH SEE ARCHITECTURAL D FOR ROOF CURB DETAI	HED DWGS
		 COIL BANKS WITH A SINGL INDIVIDUAL COIL BALANCII INDIVIDUAL COIL BALANCII INDIVIDUAL LINES TO EACI CONDENSATE DRAIN PIPIN THE DRAIN PAN CONNECT TRAPS AS INDICATED. TYPE OF ISOLATION VALVI TO SPECIFICATIONS. 	E COIL DO NOT REQUIR NG VALVE. H COIL SHALL BE SAME NG SIZE SHALL BE EQUA ION SIZE AND HAVE LOO	SIZE. IL TO DP SEAL	E7 INTAKE SCALE: NTS	Ō
_V	Έ (ΤΥΡ.)					
HI	CHS & CHR NG CONNECTIONS SSURE GAUGES & THERMO	METER (TYP.)			TYP. WELD THRU OUT 3/16 1/2" DIA. RE-BARS TYP. DETAIL O FRAME SCALE: NTS	
	APPROX.	APPROX. 10"	+0 3/4" TO P 3/4" BALL 3/4" TO P 3/4" BALL 1/2" HOS	PUMP DISCHARGE - VALVE E BIB CONCRETE	EAG	
	A4 SHOT F SCALE: NTS	EEDER				
- I						





			NITIVE							MINIMUM		L INTERNA			DULE (AHU) MAX		SUPPLY FA	N				SUPPLY	FAN MOTOR	
				EQUIPMEN TAG AHU-1	SERVICE ADMIN AREAS	LOCATION MECH ROOM	(FT) 0	MAX. AIRFLOW (CFM) 1700	MIN. AIRFLOW (CFM) 1000	OUTSIDE / AIRFLOW (CFM) 900	E STATIC	STATIC E PRESSUI	C STATIC RE PRESSURE	MAX BHP 1.25	OUTLET VELOCITY (FPM) 0	1255 /	TYPE DIA BI AIRFOIL	18	CLASS I	VOLUME ON CONTROL VFD	_ / MIN. VFD 2.3	RPM 2600	ECM 40	DLTS 160
				AHU-2	TRAINER BAY	MECH ROOM	0	12000	4000	800	0	0	0	13	0	1410 /		25		VFD	15	1750	ODP 46	60
																	AIR HA	ANDLING U		COIL				N
													TAG AHU-1	IT QUANTITY (CFM) 1700	EAT DB (DEG. F.) 0	EAT WB (DEG. F.) 0	LAT DB (DEG. F) 55	LAT WB (DEG. F.) 54	CAPACITY	SENSIBLE CAPACITY (MBH) 0	VELOCITY RE (FPM) 500	EFRIGERAN TYPE R-410A	MIN. ROWS / MAX. FPI 6	
													AHU-2	12000		(AHU) 3/3	55	54	0	0	500	R-410A	6	
							HEATING	6		TOTAL	HEATING C			A	IR MAX	. WATER	P	RE-FILTER	PRESSURE		FINAL FILTER		DIRTY FILTER PRESSUR	
					EQUIPMEN TAG AHU-1	IT HEATING COIL TYPE HOT	AIRFLOW	/ EAT (DEG. F.) 0	LAT (DEG. F.)	CAPACIT	Y EWT	LWT F (DEG. F.)	LOWRATE RO	DWS / DRO	P (IN. DR .G.) \	OP (FT. N.C.) ⁻	TYPE RTRIDGE	FFICIENCY (MERV) 8		TYPE CARTRIDGE	EFFICIENCY (MERV) 13			N.
					AHU-2 NOTES:	WATER HOT WATER	12000	0	0	0	180	160	35	1 (0	0.00 CAF	RTRIDGE	8	0	CARTRIDGE	13	0	0	
					1. AIRFLOW	75, LUADS, AN		NFURMATIC	ו אוכ PREL	IIVIIINARY AN	NU SHALL BE \	ALIDATED B	Y THE DESIGNE	K OF KECORI	ש.									
													ELECTRIC HEAT		HUMIDIFIE	HORIZONT SUSPENDI COMPUTER R R		0 88 SCHEDULE	5 CFM 0 E (CRU) 2/2 FILTER PRESSUR		DA 22	(MBH) 22 ELECTRIC	AL FULL LOAD	
										N	TAG NO. CRU-1 ELI	TYPE (ECTRIC	PACITY HEAT KW) CONTR 4.7 SCR MOTOR INFORM	ROL TYPE ELECTR	RIC 4.3	IR) KW 1.5	TYPE FLAT	EFFICIENC (MERV) 8 D BY THE D	W.C.) 0.35	DROP (IN. 1		S PHASE 1	AMPS (AMPS) 34.2	R
																			ENSING UNITS	6				
													TAO				FFICIENCY						FULL LOAD	
													TAG CU-1 CU-2	SERVICE AHU-1 AHU-2	(MBH) 73 300	NUMBER 2 4	(EER) 11.1 10.6	QUANTT 2 4	Y MOTOR HP 0.75 1	R-410A R-410A	460	E PHASE 3 3	40 85	
														CRU-1	22	1	0	1	0.2	R-410A	208	1	13.4	
					MINIMUM OA	MINIMUM		REHEAT CO	DIL				TOTAL	EXTE		E AIR FAN			FILTEF		DIRTY FILTER	ELEC	FRICAL	
TAO	MECH E	TYPE ORIENT NERGY INDC WHEEL SUSPE	OR, 675 CFN	OUTSIDE ST AIR EF W AIRFLOW	SUMMER FECTIVENESS (%) 60	WINTER	R NESS TY		(W) C(OLUME ONTROL IN ONSTANT	P	STATIC	STATIC I PRESSURE MC (IN WC)	MIN STA OTOR PRES HP (IN)	ATIC ST SURE PRE	TATIC M SSURE MO NWC) H				RESSURE P DROP (IN AL	PRESSURE	/OLTAGE F 208	PHASE MCA 1 26.3	
TAG ERU-1					II BE VALIDAT	ED BY THE DE	ESIGNER OF	F RECORD.																
ERU-1 NOTES		AND MOTOR INFOR	MATION IS PRELI	IMINARY AND SHA																				

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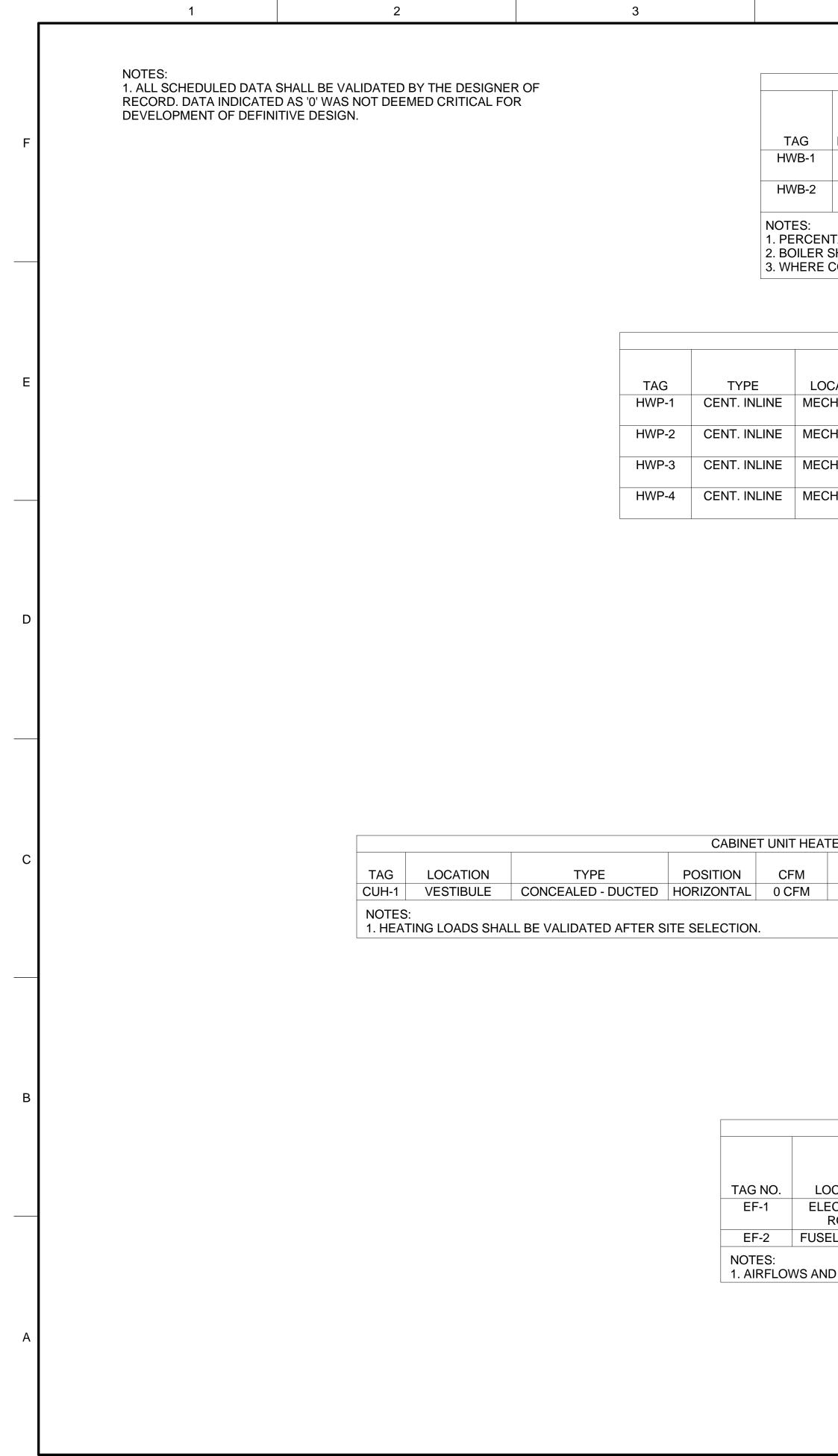
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DEFINITIVE DESIGN

OF E APPR.	ARM' ENGI BILE	NE	ERS	®		
SYMBOL DESCRIPTION						
DESIGNED BY: DATE: T. KARRE 4/17/2013	DRAWN BY: SCALE:			J. BURGER	T. KARRE 4/17/2013	PROJECT ENGINEER/ARCHITECT DATE
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS	MOBILE, ALABAMA		BURNS & MCDONNELL		IVICDUILIEIL KANSAS CITY, MU 64114	8
KC-46A FUSELAGE TRAINER DFFINITIVE DESIGN	BASE X, CONUS		MECHANICAL SCHEDLILES			
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	LOCATION	TYPE	FLUID	MINIMUM GROSS OUTPUT (MBH)	BURNER INPUT (CFH @ 1000 BTU/CF)	PRESSURE RATING (PSIG)	LVG. WATER TEMP (DEG. F.)	ENT. WATER TEMP (DEG. F.)	FLOWRATE (GPM)	PRESS LOSS (FT)	FUEL SOURCE	MIN. EFFICIENCY (%)	TURNDOWN	VOLTS	PHASE	REMARKS
	MECH ROOM	TBD	NOTE 1	415	500	125	180	160	40	20	NATURAL GAS	88	5:1	120	1	2, 3
2	MECH ROOM	TBD	NOTE 1	415	500	125	180	160	40	20	NATURAL GAS	88	5:1	120	1	2, 3

2. BOILER SHOWN FOR SPACE PLANNING PURPOSES. BOILER HAS BEEN SIZED BASED ON ESTIMATED LOADS. DESIGNER TO RESIZE BASED UPON ACTUAL GEOGRAPHIC LOCATION. 3. WHERE CONDENSING BOILERS ARE USED, PROVIDE ACID NUETRALIZATION FOR BOILER CONDENSATE.

					HVAC F	VMP SCHE	DULE								
						CUCTION		MOTOD	MOTOD	MOTOD	STARTER / DISCONNECT	SPEED CONTROL	ELECT	RICAL	
LOCATION	SERVICE	MAXIMUM FLUID TEMP DEG. F.	MINIMUM FLUID TEMP DEG. F.	CAPACITY - GPM	PUMP HEAD (FT)	SUCTION SIZE - IN.	DISCHARGE SIZE - IN.	MOTOR - RPM	MOTOR - HP	MOTOR TYPE	PROVIDED BY	TYPE	VOLTS	PHASE	REMARKS
IECH ROOM	HWS - PRIMARY	180	50	40	30	1.5	1.5	1750	1	ODP	DIV 26	CONSTANT	460	3	
IECH ROOM	HWS - PRIMARY	180	50	40	30	1.5	1.5	1750	1	ODP	DIV 26	CONSTANT	460	3	
IECH ROOM	HWS - SECONDARY	180	50	80	70	2	2	1750	5	ODP	DIV 26	VFD	460	3	
IECH ROOM	HWS - SECONDARY	180	50	80	70	2	2	1750	5	ODP	DIV 26	VFD	460	3	

					VARIABL	E AIR VOLU	ME BOXES S	CHEDULE						
				MIN INLET					REHEAT			ELEC	TRICAL	
			INLET	STATIC	MAX	MIN	VAV BOX		COIL	HEATING	CONN			
			SIZE	PRESSURE	DESIGN	DESIGN	HEATING	HEATING	CAPACITY	WATER	PIPE SIZE			
TAG	LOCATION	TYPE	(INCHES)	(IN WC)	AIRFLOW	AIRFLOW	AIRFLOW	COIL TYPE	(BTUH)	FLOW	(IN)	VOLTS	PHASE	REMARKS
VAV-1	CLASSROOM	A	8	0	700	420	420	HOT WATER	0	0	1/2	24	1	1
VAV-2	BRIEFING ROOM	A	4	0	175	140	140	HOT WATER	0	0	1/2	24	1	1
VAV-3	BRIEFING ROOM	A	4	0	175	90	90	HOT WATER	0	0	1/2	24	1	1
VAV-4	BREAK ROOM	A	6	0.75	400	125	120	HOT WATER	0	0	1/2	24	1	1
VAV-5	LOBBY/CORRIDOR	A	6	0.75	250	150	50	HOT WATER	0	0	1/2	24	1	1

NOTES: 1. AIRFLOWS ARE PRELIMINARY AND SHALL BE VALIDATED BY THE DESIGNER OF RECORD. HEATING LOADS SHALL BE DETERMINED AFTER SITE SELECTION.

VAV TYPES: A - STANDARD SHUTOFF BOX; B - PARALLEL FAN POWERED BOX, HEAT ON INLET.

AT	ER SCHEDULE					
	HEAT TYPE	HEAT LOAD (MBH)	VOLTS	PHASE	WEIGHT (LBS)	REMARKS
	HOT WATER	10	120	1		1

				HEAT LOAD			WEIGHT	
TAG	LOCATION	POSITION AND TYPE	CFM	(MBH)	VOLTS	PHASE	(lbs)	REMARKS
UH-1	FUSELAGE TRAINER 113	SUSPENDED/HOT WATER	0 CFM	20	120	1		1, 2
UH-2	FUSELAGE TRAINER 113	SUSPENDED/HOT WATER	0 CFM	20	120	1		1, 2
UH-3	FUSELAGE TRAINER 113	SUSPENDED/HOT WATER	0 CFM	40	120	1		1, 2
UH-4	MECHANICAL ROOM 109	SUSPENDED/HOT WATER	0 CFM	15	120	1		1, 2
UH-5	ELECTRICAL ROOM 112	SUSPENDED/ELECTRIC	0 CFM	4	240	1		1, 2
UH-6	FIRE PUMP ROOM 114	SUSPENDED/HOT WATER	0 CFM	10	120	1		1, 2

2. HEATING LOADS SHALL BE VALIDATED AFTER SITE SELECTION.

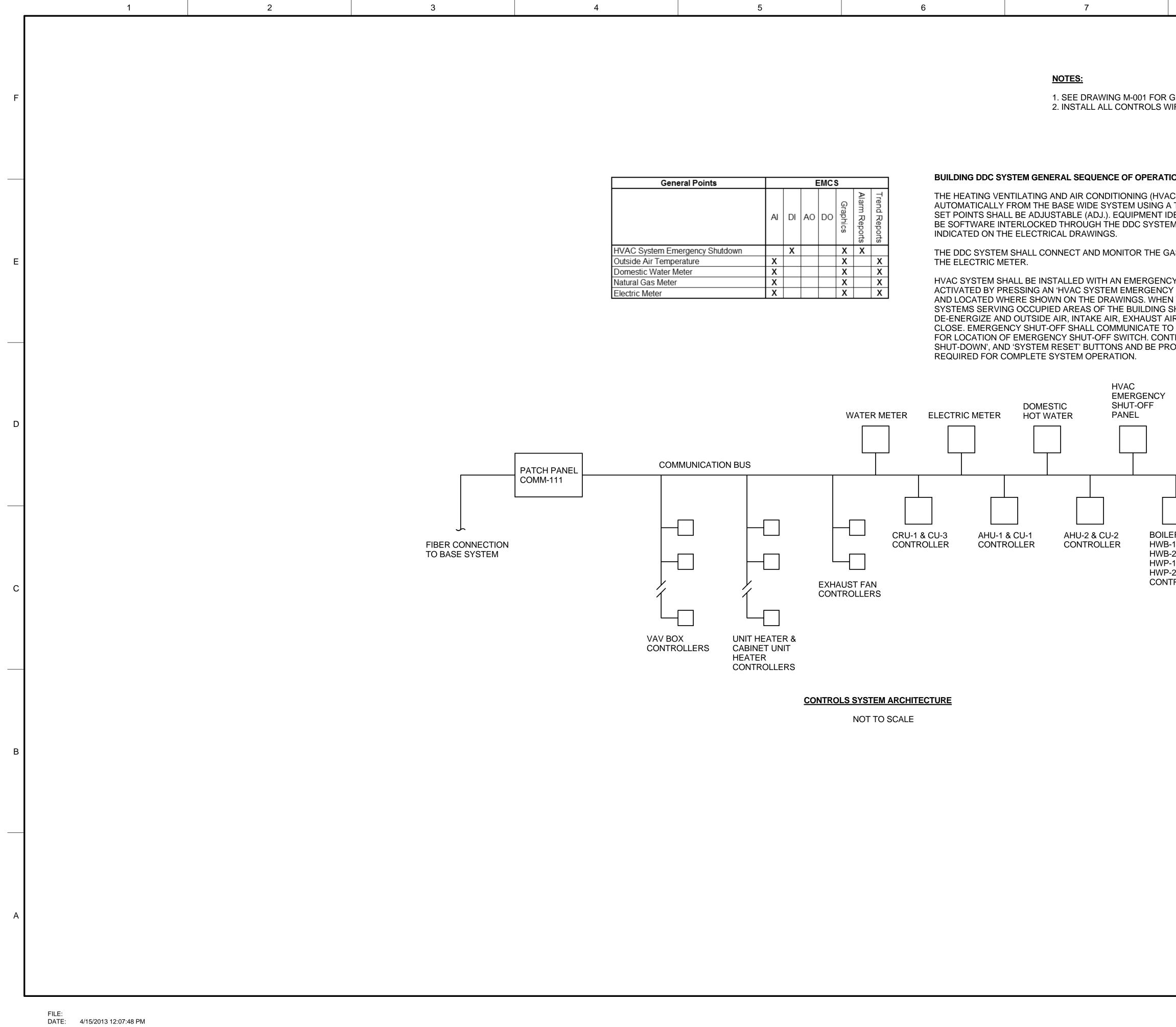
							FAN SC	HEDULE									
						EXTERNAL				ELECTR	ICAL DATA						
				FAN		STATIC	SOUND	MIN.			STARTER /						
			AIRFLOW	SPEED	FAN SPEED	PRESSURE	LEVEL	MOTOR	OPERATING	MOTOR	DISCONNECT			INTERLOCK	DRIVE	WEIGHT	
LOCATION	SERVICE	FAN TYPE	(CFM)	(RPM)	CONTROL	(IN. W.G.)	(dba)	HP	BHP	TYPE	PROVIDED BY	VOLTS	PHASE	WITH	TYPE	(LBS)	REMARKS
ELECTRICAL ROOM	EXHAUST	INLINE CENT.	2200	0	CONSTANT	0		0.5	0	ODP	DIV 26	120	1		BELT	0	1
JSELAGE BAY	EXHAUST	INLINE CENT.	1000	0	CONSTANT	0		0.25	0	ODP	DIV 26	120	1		BELT	0	1

1. AIRFLOWS AND MOTOR INFORMATION IS PRELIMINARY AND SHALL BE VALIDATED BY THE DESIGNER OF RECORD.

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DATE: 4/17/2013	SCALE:		DRAWING CODE:		4/17/2013	ARCHITECT DATE
DESIGNED BY: T. KARRE	DRAWN BY:	R. HINES	CHECKED BY:	J. BURGER	T. KARRE	PROJECT ENGINEER/ARCHITECT DATE
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS	MOBILE, ALABAMA		BLIRNS & MCDONNELL	Burns & 9400 WARD PARKWAY	MCDONNEIL KANSAS CITY, MO 64114	8
KC-46A FUSELAGE TRAINER	BASE X, CONUS			MECHANICAL SCHEDULES		
	REF	E JN	1BI	NC ER:		



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US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT ERU-1 GAS METER CONTROLLER 12" 200 12" 08/ BOILERS HWP-3 HWP-4 HWB-1 CONTROLLER CONTROLLER HWB-2 ס צ ב HWP-1 HWP-2 4 BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 6411 (816) 333-9400 CONTROLLER Burns & McDonnell since 1898 MECHANICAL CONTROI DIAGRAMS

1. SEE DRAWING M-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS. 2. INSTALL ALL CONTROLS WIRING AND CABLES IN CONDUIT PER SPECIFICATION 262000.

BUILDING DDC SYSTEM GENERAL SEQUENCE OF OPERATION: THE HEATING VENTILATING AND AIR CONDITIONING (HVAC) SYSTEMS SHALL BE CONTROLLED AUTOMATICALLY FROM THE BASE WIDE SYSTEM USING A TEMPERATURE CONTROL SYSTEM. ALL SET POINTS SHALL BE ADJUSTABLE (ADJ.). EQUIPMENT IDENTIFIED AS BEING INTERLOCKED SHALL BE SOFTWARE INTERLOCKED THROUGH THE DDC SYSTEM UNLESS NOTED OTHERWISE OR THE DDC SYSTEM SHALL CONNECT AND MONITOR THE GAS METER, DOMESTIC WATER METER, AND HVAC SYSTEM SHALL BE INSTALLED WITH AN EMERGENCY SHUT-DOWN SYSTEM. SYSTEM SHALL BE ACTIVATED BY PRESSING AN 'HVAC SYSTEM EMERGENCY SHUT-DOWN BUTTON' CLEARLY LABELED AND LOCATED WHERE SHOWN ON THE DRAWINGS. WHEN THE BUTTON IS PRESSED, ALL HVAC SYSTEMS SERVING OCCUPIED AREAS OF THE BUILDING SHALL GO INTO OFF MODE; FANS SHALL DE-ENERGIZE AND OUTSIDE AIR, INTAKE AIR, EXHAUST AIR, AND RELIEF AIR DAMPERS SHALL CLOSE. EMERGENCY SHUT-OFF SHALL COMMUNICATE TO ALL DEVICES. REFER TO DRAWING M-101 FOR LOCATION OF EMERGENCY SHUT-OFF SWITCH. CONTROL PANEL SHALL CONTAIN 'EMERGENCY SHUT-DOWN', AND 'SYSTEM RESET' BUTTONS AND BE PROVIDED WITH ALL RELAYS AND CONTACTS

General Points			E	EMCS	5		
	AI	DI	AO	DO	Graphics	Alarm Reports	Trend Reports
HVAC System Emergency Shutdown		Х			Х	Х	
Outside Air Temperature	Х				Х		Х
Domestic Water Meter	Х				Х		Х
Natural Gas Meter	Х				Х		Х
Electric Meter	Х				Х		Х

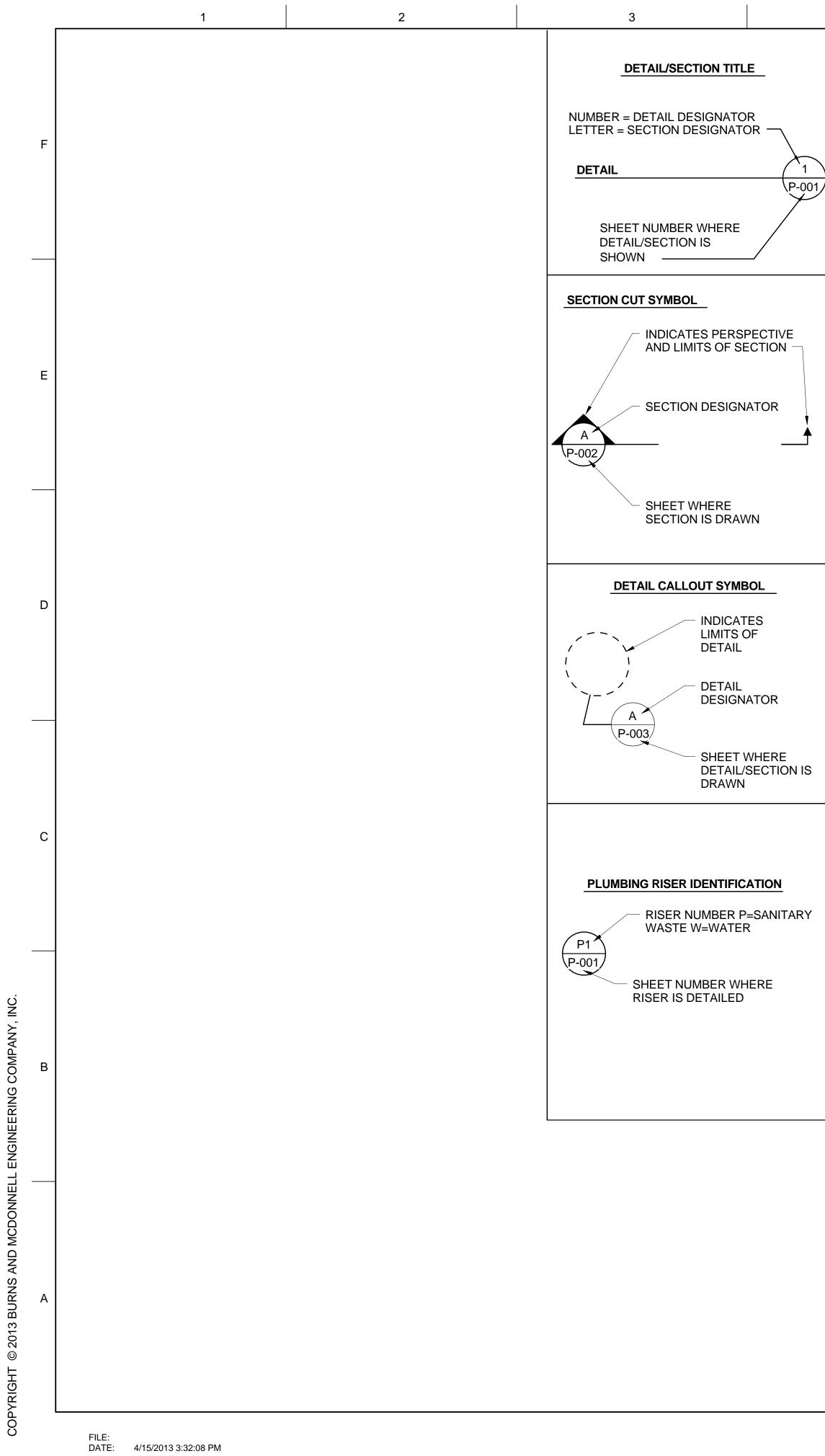
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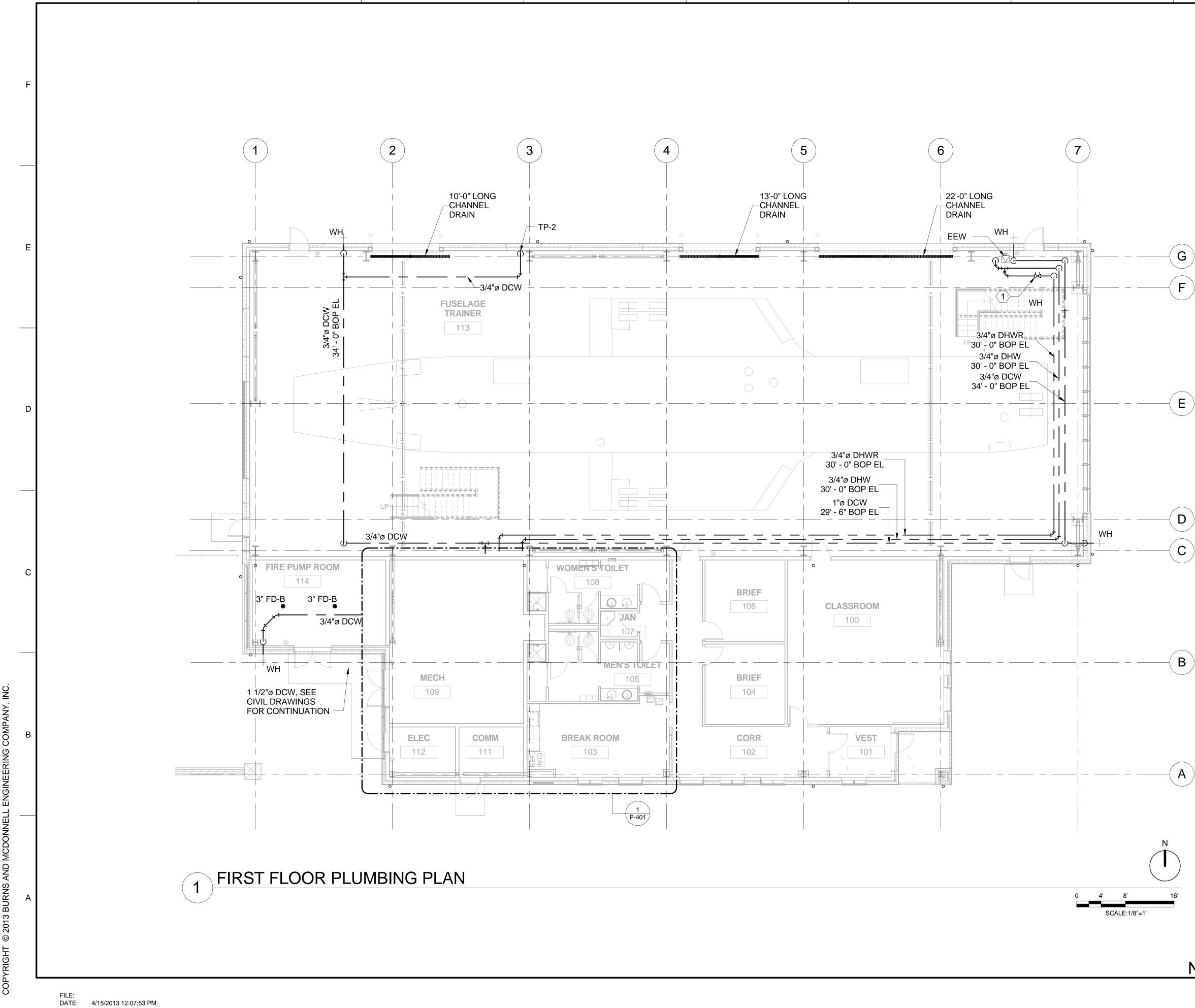


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TITLE ATOR NATOR P-001 RE RE	PIPE LINE DESI ?" V ?" DCW ?" DHW ?" DHWR ?" SS ?" COND ?" NG BP M DX NXL	IGNATIONS VENT DOMESTIC COLD WATER (DCW) DOMESTIC HOT WATER (DHW) DOMESTIC HOT WATER RECIRCULATION (DH SANITARY SEWER (ABOVE GRADE) SANITARY SEWER (BELOW GRADE) CONDENSATE DRAIN NATURAL GAS BACKFLOW PREVENTION ASSEMBLY WATER METER BACKFLOW PREVENTION ASSEMBLY	1. REFER TO PIPING SIZ 2. LOSSES H WR) UNDERGR 3. 4. PUMP ROC 5. SYSTEM S THE LCCA DEMAND S	SIGN NOTES: AND INSTRUCTIONS: THE DESIGN ANALYSIS FOR APPLICABLE STANDAR ES ARE BASED ON AVAILABLE PRESSURE OF 35 PS AVE BEEN DEDUCTED. OUND PIPING NOT SHOWN AND TO BE COMPLETED INATION OF FLOOR DRAINS, AND DESIGN OF ASSO OMS TO BE COMPLETED BY DESIGNER OF RECORD CLE COST ANALYSIS (LCCA) SHALL BE PERFORMED ELECTION AND TO DEMONSTRATE COMPLIANCE W AS SPECIFIED IN UFC 1-200-02. IF LIFE CYCLE COST HALL BE MET THROUGH THE INSTALLATION AND U SUCH AS HEAT PUMP WATER HEATERS OR UTILIZIN	SIG AFTER METE D BY DESIGNER CIATED SANITA AFTER FINAL S DURING THE D ITH EISA 2007 E FEFECTIVE, A SE OF SOLAR H	ER, BACKFLOW PREVENTER AND STATIC LIFT OF RECORD AFTER SITE SELECTION. RY AND VENT PIPING IN MECHANICAL AND FIL ELECTION OF EQUIPMENT. ESIGN PHASE FOR DOMESTIC HOT WATER NERGY REDUCTION REQUIREMENTS. PERFO MINIMUM 30 PERCENT OF THE HOT WATER OT WATER HEATERS. ALSO CONSIDER		DISTRICT
	CO WCO FCO NOTE: QUESTION MARKS (?) WIL	CLEANOUT IN RISER CLEANOUT IN WALL CLEANOUT IN FLOOR L BE REPLACED BY A PIPE SIZE ON DRAWINGS	PLU ● WC-1 ● WC-2 □ U-1 □ U-2		AG AFF AC ARV BF BOP	MBING ABBREVIATIONS AIR GAP ABOVE FINISHED FLOOR AIR COCK AIR RELEASE VALVE BLIND FLANGE BOTTOM OF PIPE		
SYMBOL ICATES ITS OF TAIL TAIL SIGNATOR EET WHERE TAIL/SECTION IS AWN	<pre></pre>	MAGRAM LEGEND CLEANOUT (CO) IN RISER CLEANOUT (FCO) IN FLOOR VENT THRU ROOF (VTR) FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN/EQUIPMENT DRAIN PRESSURE GAUGE WATER HAMMER ARRESTOR - SPEC. TYPE CLEANOUT (WCO) IN WALL RWISE, THE CIVIL AND MECHANICAL INTERFACE E SLEEVE REQUIREMENTS WITH FOUNDATION SU NICAL ROOM FLOOR DRAINS WITH ACTUAL EQUIP	IBCONTRACTOR. MENT LOCATIONS AND D	A LAVATORY, WALL MOUNTED MOP BASIN SINK DUAL ELECTRIC WATER COOLER EMERGENCY EYEWASH SIZE - FLOOR DRAIN - SPEC. TYPE PRESSURE/TEMPERATURE RELIEF VALVE HOSE BIBB WALL HYDRANT BALL VALVE BALANCING VALVE	CH OP CPVC CONC DN D ELL FOB FOT FOV FD FM FS HD I.E. LC LO NRS PSIA PSIG PVC RD SCH TOC TOP TOG TOS TD VTR	CHAIN WHEEL OPERATOR CHLORINATED POLYVINYL CHLORIDE CONCENTRIC DOWN DRAIN DUCTILE IRON ELBOW FLAT ON BOTTOM FLAT ON BOTTOM FLAT ON TOP FLOAT OPERATED VALVE FLOOR DRAIN FLOW METER FORGED STEEL HUB DRAIN INVERT ELEVATION LOCK CLOSED LOCK OPEN NON-RISING STEM POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE POLYVINYL CHLORIDE ROOF DRAIN SCHEDULE TOP OF CONCRETE TOP OF GRATING TOP OF STEEL TRENCH DRAIN VENT THROUGH ROOF	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA DRAWN BY: SCALE: CONDUCT DESIGNED BY: A/17/2013 SCALE: CONDUCT DESIGNED BY: A/17/2013 SCALE: CONDUCT DESIGNED BY: CONDUCT DESIGNED BY: CONDUCT DESIGNET D	K. HIMES I.2" = 1'-0" BURNS & MCDONNELL K. HIMES I.2" = 1'-0" BURNS & MCDONNELL CHECKED BY: DRAWING CODE: BURNS & MCDONNELL J. BURGER EP14P-001 MCDOnnell KANSAS CITY, MO 64114 T. KARE 4/17/2013 Since 1898 (816) 333-9400 T. KARE 4/17/2013
	5. INSTALL SANITARY PIE DOWNWARD TOWARD	PING WITH 2% SLOPE DOWNWARD IN DIRECTION		PIPING WITH 1% SLOPE			KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS	PLUMBING LEGEND AND ABBREVIATIONS
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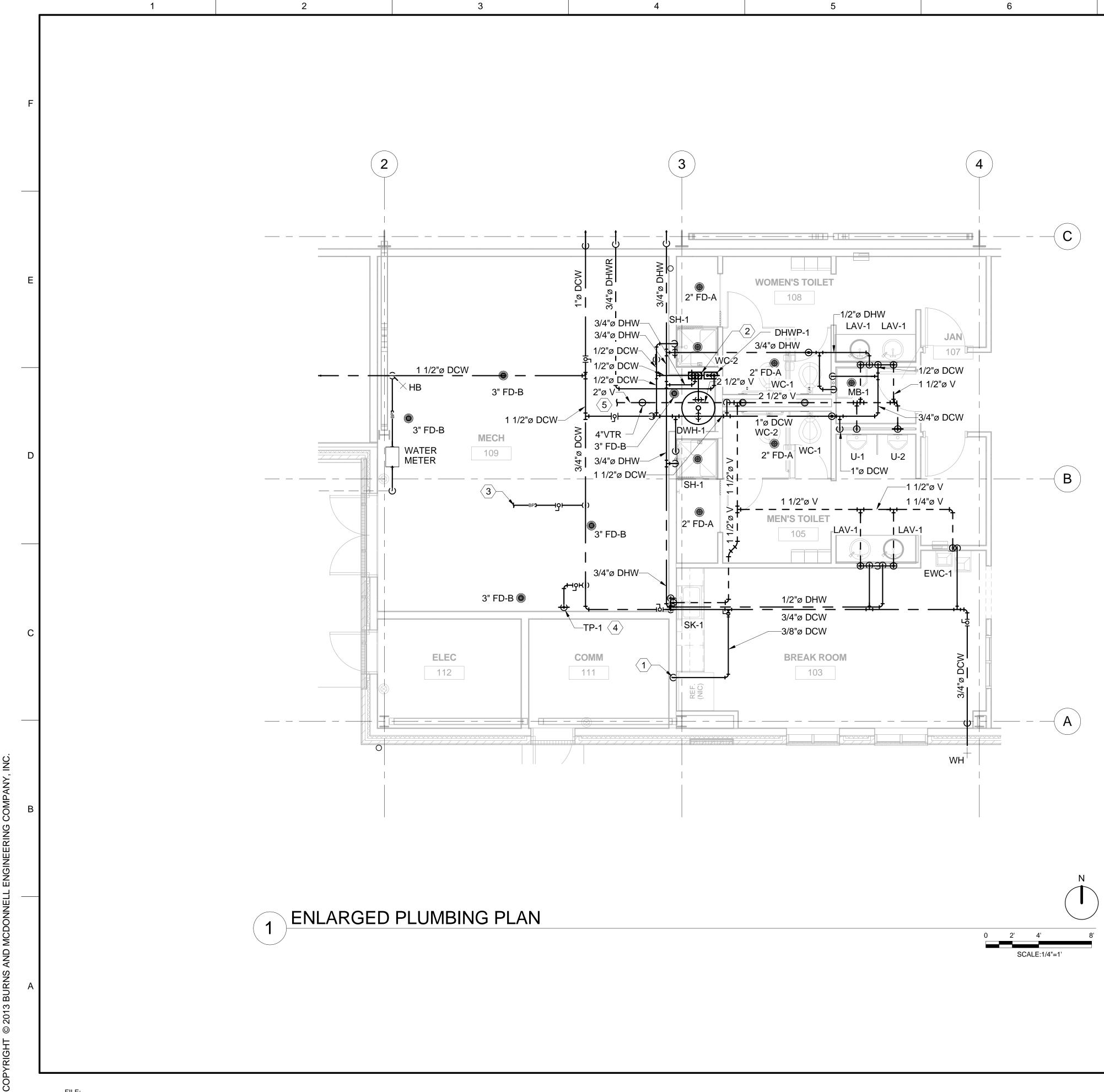
NOTES:

- 1. SEE DRAWING P-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- 2. FOR CONNECTION SIZES TO INDIVIDUAL FIXTURES SEE PLUMBING FIXTURE SCHEDULE ON P-601
- 3. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTIONS.
- 4. SEE RISER DIAGRAMS FOR PIPING SIZES AND ROUTING NOT SHOWN ON PLAN DRAWINGS.
- 5. PROVIDE TRAPS AND TRAP PRIMER CONNECTIONS FOR CHANNEL DRAINS.

KEYED NOTES:

(1) INSTALL CALIBRATED BALANCING VALVE ON WALL AT 8'-0" AFF. SET VALVE TO 1 GPM.

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DESIGNED BY:	T. KARRE	DRAWN BY:					J. BURGER	T. KARRE		
ILS ADMY ENGINEED DISTRICT	CORPS OF ENGINEERS	MOBILE, ALABAMA				BURNS & MCDONNELL	9400 WARD PARKWAY	INCUONTIELL KANSAS CITY, MU 64114	8	
KC-46A FUSELAGE TRAINER	DEFINITIVE DESIGN		DAJE A, CUIVUJ							
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NOTES:

- 1. SEE DRAWING P-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- 2. FOR CONNECTION SIZES TO INDIVIDUAL FIXTURES SEE PLUMBING FIXTURE SCHEDULE ON P-601
- 3. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTIONS.
- 4. SEE RISER DIAGRAMS FOR PIPING SIZES AND ROUTING NOT SHOWN ON PLAN DRAWINGS.
- 5. COORDINATE FLOOR DRAIN LOCATIONS WITH FINAL MECHANICAL & PLUMBING EQUIPMENT LOCATIONS.

KEYED NOTES:

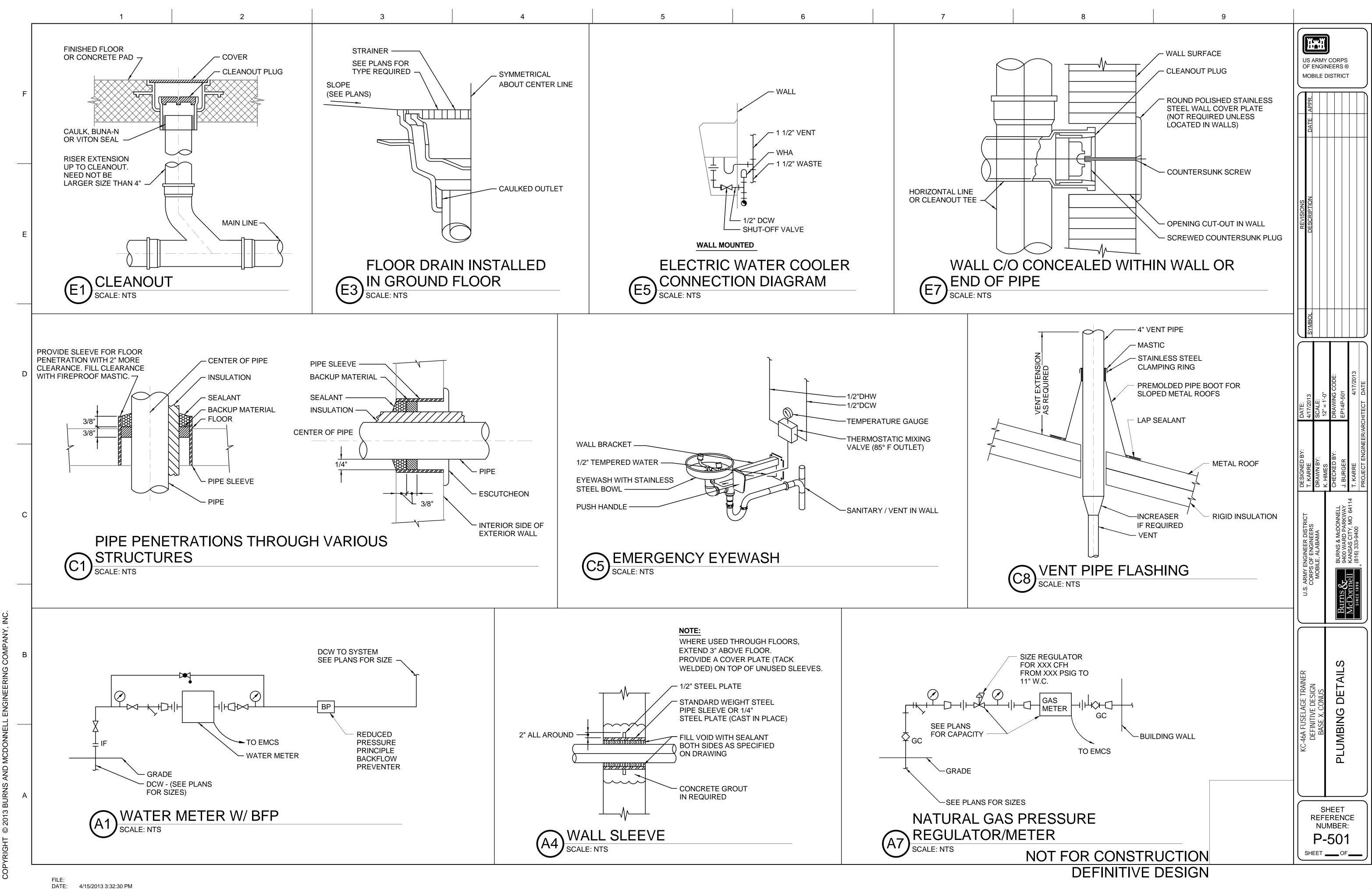
- 1 INSTALL ICE MAKER OUTLET BOX IN WALL AT 2'-0" AFF.
- $\langle 2 \rangle$ THERMOSTATIC MIXING VALVE.
- 3 1"ø DCW TO HEATING WATER SYSTEM MAKE-UP CONNECTIONS. SEE MECHANICAL DRAWINGS FOR CONTINUATION.
- $\langle 4 \rangle$ ROUTE 3/4"ø DCW TO TRAP PRIMER TP-1.
- 5 SANITARY AND VENT SYSTEM IN MECHANICAL AND FIRE PUMP ROOMS TO BE DEVELOPED AFTER SITE SELECTION.

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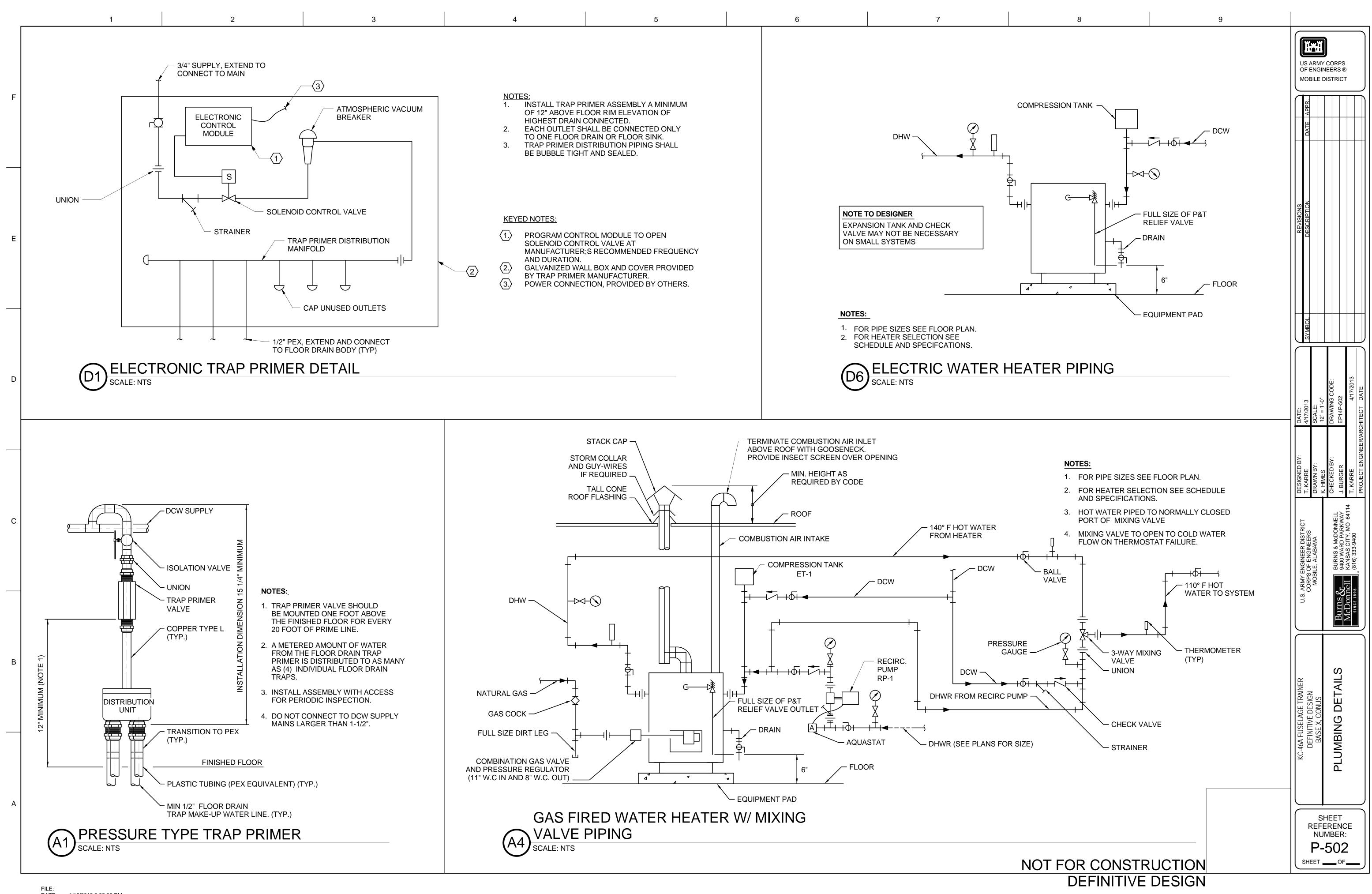
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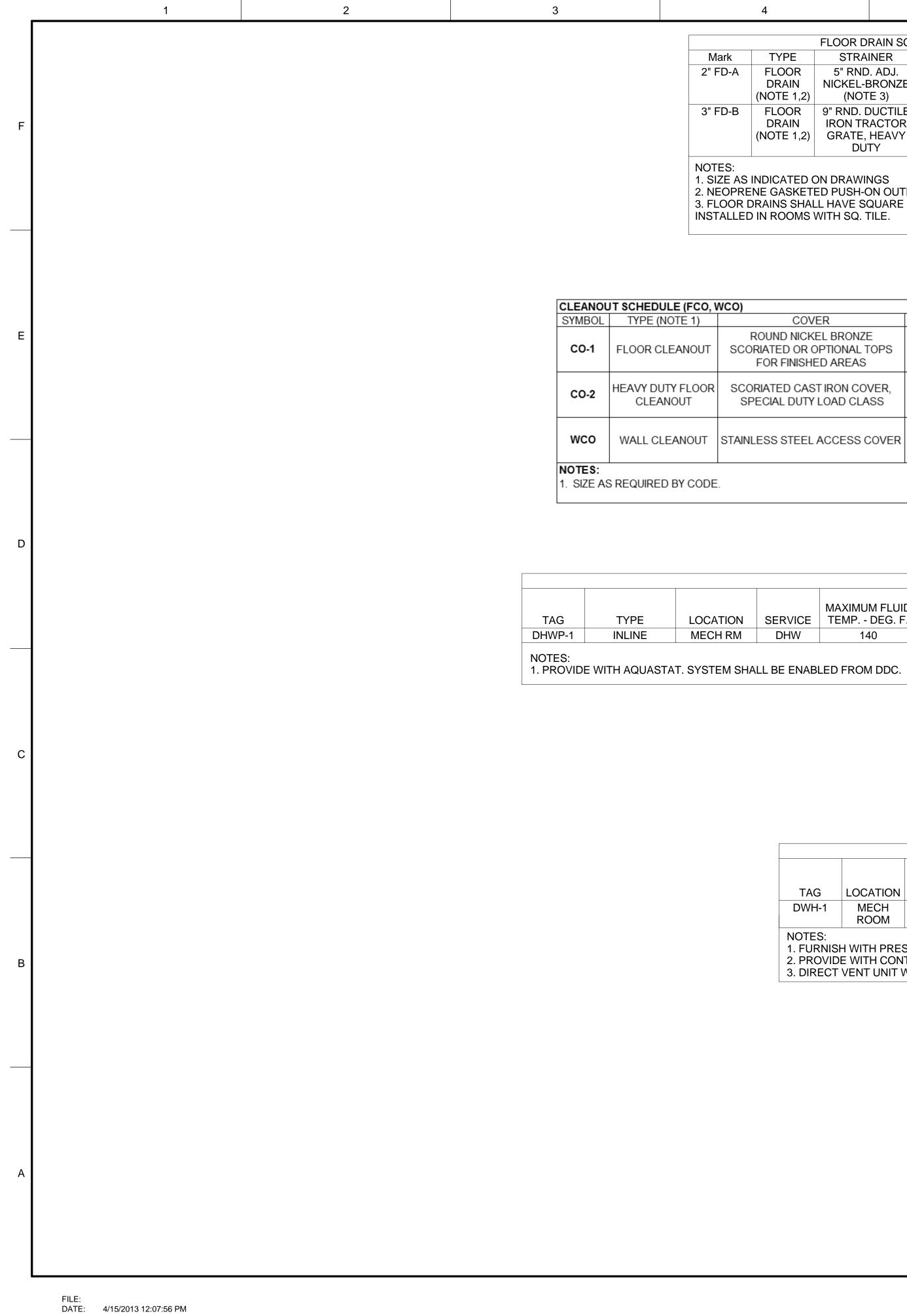
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		FLOOR DRAIN SCH	IEDULE		PLUMBING FIXT	URE SCHE
ark	TYPE	STRAINER	REMARKS		FLOW OR FLUSHRATE	

ark	TYPE	STRAINER	REMARKS									
D-A	FLOOR DRAIN (NOTE 1,2)	5" RND. ADJ. NICKEL-BRONZE (NOTE 3)	CAST IRON, TWO PIECE BODY INTEGRAL CLAMPING COLLAR, TRAP PRIMER CONNECTION									
D-B	FLOOR DRAIN (NOTE 1,2)	9" RND. DUCTILE IRON TRACTOR GRATE, HEAVY DUTY	CAST IRON, INTEGRAL CLAMPING COLLAR, PROVIDE WITH DEEP SEAL TRAP									
ES: ZE AS												

2. NEOPRENE GASKETED PUSH-ON OUTLET 3. FLOOR DRAINS SHALL HAVE SQUARE GRATE WHERE

INSTALLED IN ROOMS WITH SQ. TILE.

١	WCO)	
	COVER	REMARKS
	ROUND NICKEL BRONZE SCORIATED OR OPTIONAL TOPS FOR FINISHED AREAS	CAST IRON, THREADED BRASS COUNTERSUNK PLUG, ADJUSTABLE HOUSING (NOTE 1)
	SCORIATED CAST IRON COVER, SPECIAL DUTY LOAD CLASS	CAST IRON, THREADED BRASS COUNTERSUNK PLUG, ADJUSTABLE HOUSING (NOTE 1)
	STAINLESS STEEL ACCESS COVER	CAST IRON, THREADED BRASS COUNTERSUNK PLUG (NOTE 1)

		F	PLUMBING FIX	TURE SCHEDULE				
		FLOW OR	FLUSHRATE		CONN	IECTION S	IZES (IN	CHES)
TAG	DESCRIPTION			MOUNTING HEIGHT	COLD WATER	HOT WATER	VENT	WASTE
EEW	EMERGENCY EYEWASH	6	GPM	33 INCHES AFF	0.5	0.5	1.5	1.25
EWC-1	ELECTRIC WATER COOLER	8	GPH	ORIFICE HEIGHT: 38-3/8" UPPER, 32-7/8" LOWER	0.5	N/A	1.25	1.5
HB	HOSE BIBB	5	GPM	36 INCHES AFF	0.5	N/A	N/A	N/A
LAV-1	COUNTER MOUNTED LAVATORY	0.5	GPM	SET BY COUNTER HEIGHT	0.5	0.5	1.25	1.5
MB-1	MOP BASIN	2.5	GPM	FLOOR MOUNTED	0.75	0.75	N/A	3
SH-1	ACCESSIBLE SHOWER	1.5	GPM	TOP OF HAND SPRAY BAR AT 66" ABOVE FLOOR	0.5	0.5	1.25	1.5
SK-1	BREAK ROOM SINK	1.5	GPM	SET BY COUNTER HEIGHT	0.5	0.5	1.25	1.5
U-1	URINAL	0.125	GPF	24 INCHES AFF RIM HEIGHT	0.75	N/A	1.5	2
U-2	ACCESSIBLE URINAL	0.125	GPF	17 INCHES AFF RIM HEIGHT - ACCESSIBLE	0.75	N/A	1.5	2
WC-1	WATER CLOSET	1.28	GPF	15 INCHES AFF RIM HEIGHT	1	N/A	2	4
WC-2	ACCESSIBLE WATER CLOSET	1.28	GPF	17 INCHES AFF RIM HEIGHT - ACCESSIBLE	1	N/A	2	4
WH	WALL HYDRANT	5	GPM	24 INCHES AFF	0.75	N/A	N/A	N/A

	TRAP PRIMER SCHEDULE												
	TRAP			TRAP PRIMER ROOM	NUMBER OF		MIN. DIFF. PRESSUR						
TAG NO.	PRIMER TYPE	VOLTAGE	PHASE	LOCATION	DRAINS	PIPE SIZE	E (PSIG)	REMARKS					
TP-1	AUTOMATIC	120	1	MECHANICAL ROOM 109	11	0.75	NA	1					
TP-2	AUTOMATIC	120	1	FUSELAGE TRAINER 113	3	0.75	NA	1					
NOTES:						·							

1. 1/2 INCH PEX SUPPLY TUBING TO EACH DRAIN TRAP.

											STARTER /	ELECT	RICAL	
		MAXIMUM FLUID	MINIMUM FLUID		PUMP	SUCTION	DISCHARGE	MOTOR -	MOTOR -	MOTOR	DISCONNECT			
ATION	SERVICE	TEMP DEG. F.	TEMP DEG. F.	CAPACITY - GPM	HEAD (FT)	SIZE - IN.	SIZE - IN.	RPM	HP	TYPE	PROVIDED BY	VOLTS	PHASE	REMARKS
HRM	DHW	140	100	1 GPM	13	0.75	0.75	3150	0.083	ODP	DIV 26	120	1	1

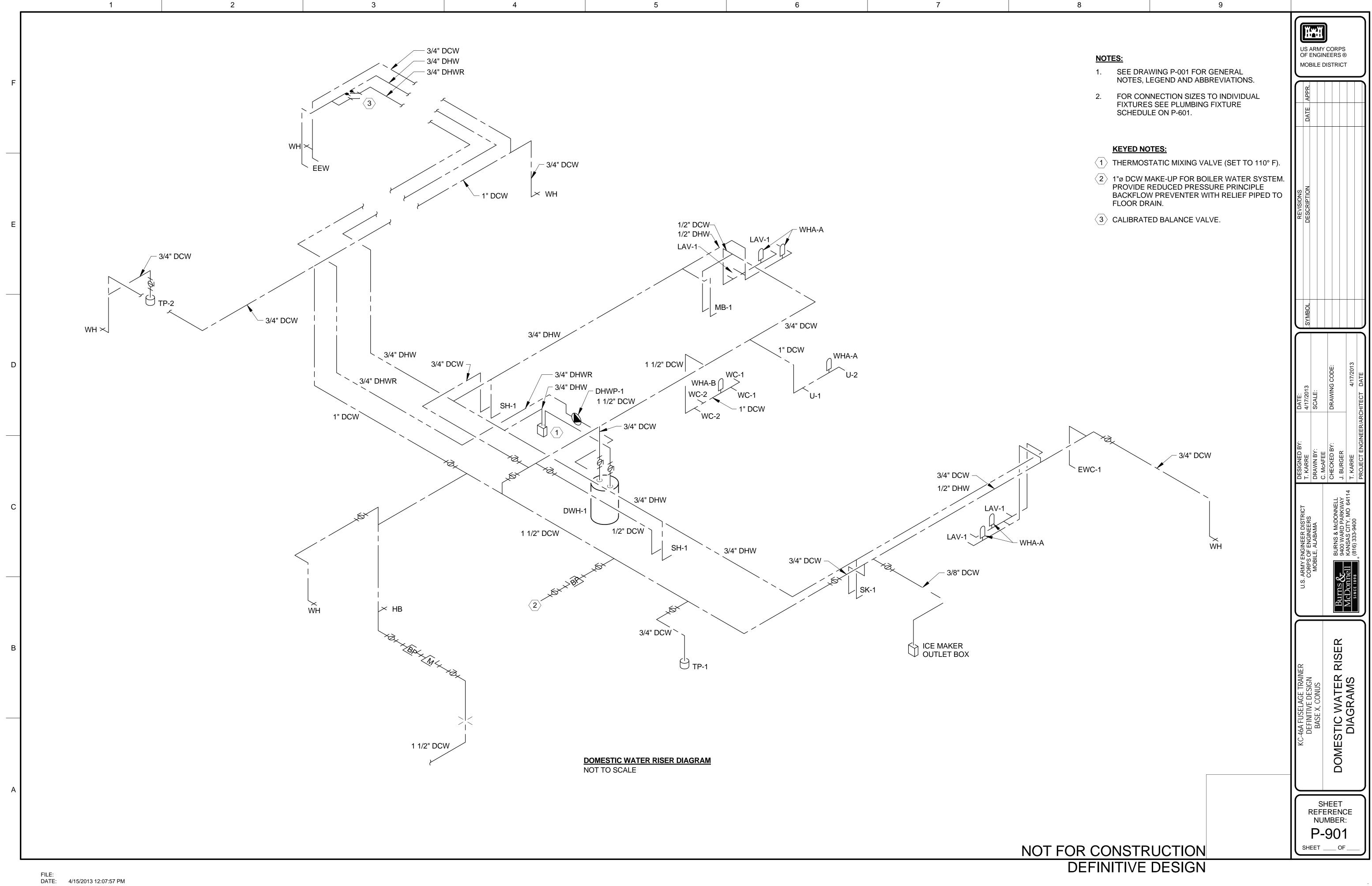
	WATER HAMMER ARRESTOR SCHEDULE (WHA)													
		SUPPLY												
		FIXTURE			MODEL		MODEL		MODEL					
TAG	PIPE SIZE	UNITS	MATERIAL	MANUFACTURER - 1	NO 1	MANUFACTURER - 2	NO 2	MANUFACTURER - 3	NO 3					
WHA-A	3/4"	1 TO 11	STAINLESS STEEL	J.R. SMITH	5005	WADE	W-5	SIOUX CHIEF	652-A					
WHA-B	1"	12 TO 32	STAINLESS STEEL	J.R.SMITH	5010	WADE	W-10	SIOUX CHIEF	653-B					

						DOMESTIC	WATER HEA	ATER SCHED	ULE					
				HEATING	INPUT	THERMAL EFFICIENCY	CAPACITY	RECOVER	HOT WATER TEMP SETTING	WATER CONNECTION	GAS CONNECTI	ELECTRIC AL	ELECTRIC AL	
TAG	LOCATION	TYPE	SERVICE	SOURCE	(MBH)	(%)	(GAL)	Y (GAL/HR)	(F)	SIZE (IN)	ON SIZE	VOLTS	PHASE	REMARKS
DWH-1	MECH ROOM	GAS FIRED STORAGE	DOMESTIC HW	NATURAL GAS	70	88	70	40	140	0.75	0.75	120	1	1,2,3
NOTES: 1. FURNISH WITH PRESSURE AND TEMPERATURE RELIEF VALVE. 2. PROVIDE WITH CONTROL MODULE TO CONNECT TO BUILDING DDC SYSTEM.														

PROVIDE WITH CONTROL MODULE TO CONNECT TO BUILDING DDC SYSTEM.
 DIRECT VENT UNIT WITH SEALED COMBUSTION.



	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT											
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	DESIGNED BY:	T. KARRE	DRAWN BY:					J. BURGER	T. KARRE			
	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA					BURNS & McDONNELL BURNS & McDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400						
	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS				PLUMBING SCHEDULES							
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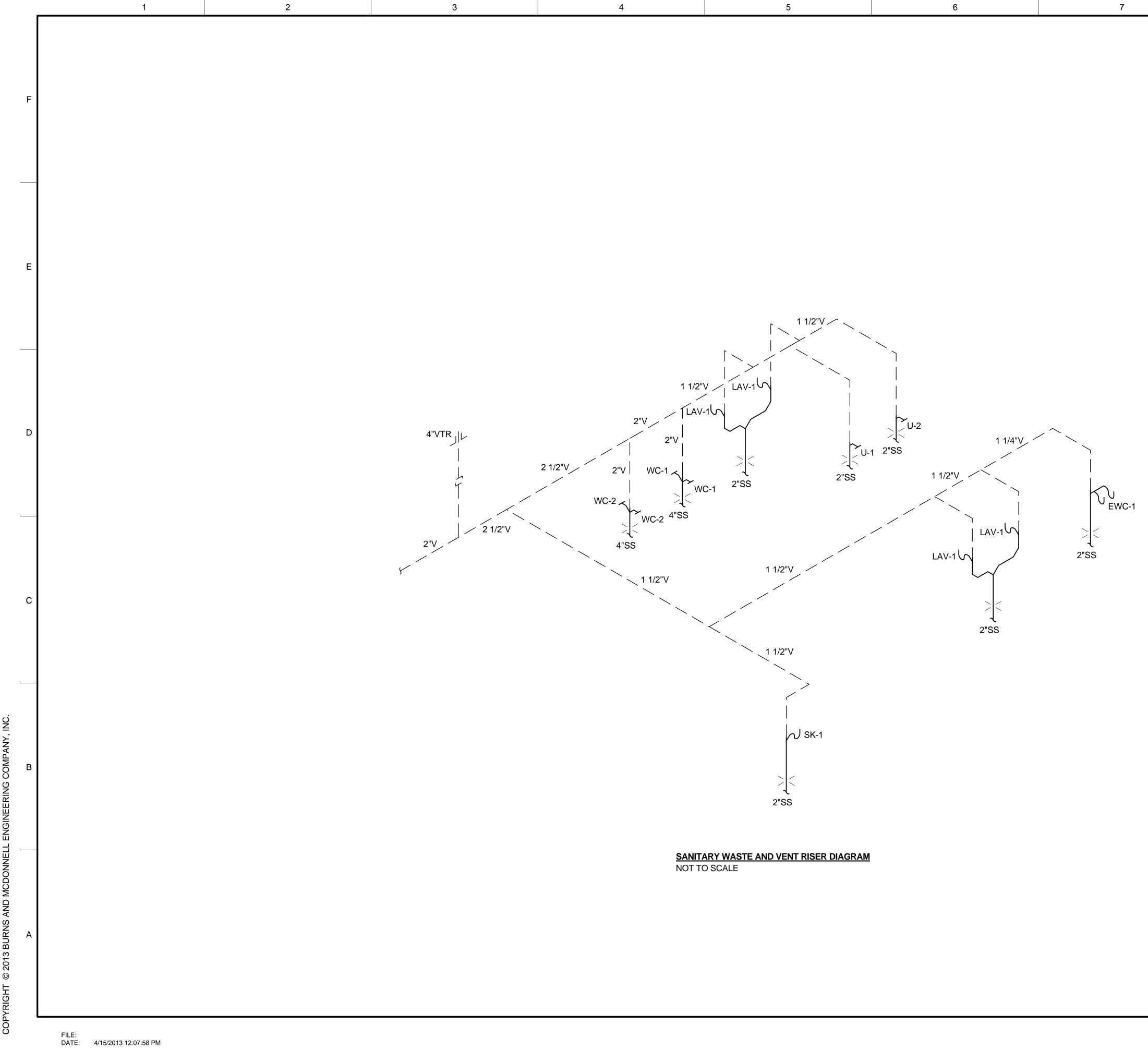
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	SEE DRAWING P-001			OF	ARMY ENGIN BILE D	IEER	S®		
2.	NOTES, LEGEND ANI FOR CONNECTION S FIXTURES SEE PLUM SCHEDULE ON P-601	SIZES TO INDIVIDUAL //BING FIXTURE		DATE APPR.					
3.	DESIGNER OF RECO DESIGN INCLUDING	ORD TO COMPLETE UNDERGROUND INS, MOP BASINS, ANI	D	REVISIONS DESCRIPTION DA					
				SYMBOL					
				DATE: 4/17/2013	SCALE:	DRAWING CODE:		4/17/2013	ARCHITECT DATE
				DESIGNED BY: T. KARRE	DRAWN BY: C. MCAFFF		J. BURGER	T. KARRE	PROJECT ENGINEER/ARCHITECT
				U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINFERS	MOBILE, ALABAMA	c	McDonell KANSAS CITY MC 6411		
				KC-46A FUSELAGE TRAINER	BASE X, CONUS	WASTE AND VENT DISED		DIAGRAMS	
	TRUCTION				SI REFE NU P-	мве 90	:R:)2		

	I / MASS NOTIFICATION LEGEND	ABBREVIATIONS:	DEFINITIVE DESIGN NOTES DESIGN CRITERIA:	
FACP	FIRE ALARM CONTROL PANEL	ABBREVIATIONS.	<u>DEGION ONTENA.</u>	
FTR MNS		AHJ AUTHORITY HAVING JURISDICTION CFM CUBIC FEET PER MINUTE IDC INITIATING DEVICE CIRCUIT	1. AUDIBLE NOTIFICATION SHALL BE PROV ROOMS THROUGHOUT THE FACILITY. T	HE FOLLOWING DESIGN
MNS	MASS NOTIFICATION CONTROL PANEL	MNS MASS NOTIFICATION SYSTEM NAC NOTIFICATION APPLIANCE CIRCUIT	CRITERIA SHALL BE ACCOMPLISHED W AND WINDOWS CLOSED. WHERE THIS D	ESIGN CRITERIA IS NOT
FPC	FIRE PUMP CONTROL (BY DIVISION 21)	NEC NATIONAL ELECTRICAL CODE SLC SIGNALING LINE CIRCUIT	ACCOMPLISHED DURING COMMISSIONI PROVIDE ADDITIONAL DEVICES TO MEE	T THE MINIMUM DESIGN
MIC	MICROPHONE	TYP TYPICAL UL UNDERWRITERS LABORATORIES	CRITERIA REQUIREMENTS AT NO ADDI DRAWINGS SHALL DEMONSTRATE THE	ADDITIONAL DEVICES AN
LOC	LOCAL OPERATIONS CONSOLE		MODIFICATIONS TO THE INSTALLED DE LIMITATIONS OF THE FACP, NAC BOOST	ER PANEL, OR AMP BOO
Р	MANUAL FIRE ALARM PULL STATION		PANEL (PLUS ANY ADDITIONAL SAFETY	
PS	PRESSURE SWITCH (BY DIVISION 23)	DETAIL/SECTION TITLE	2. A SPEAKER/HORN IS NOT REQUIRED IN SPEAKER PERFORMANCE MUST ADHEF	,
NAC	NOTIFICATION APPLIANCE CIRCUIT BOOSTER POWER SUPPLY		INTELLIGIBILITY CRITERIA WITHIN THE S DRAWINGS, NFPA 72, AND UFC 4-021-01	,
BATT	SECONDARY POWER SUPPLY (BATTERY)	SECTION, DETAIL OR ELEVATION IDENTIFICATION MARK	3. THE SOUND POWER OF THE AUDIBLE N	OTIFICATION SHALL BE
AMP	AMPLIFIER	SECTION, DETAIL OR ELEVATION TITLE	MINIMUM OF 70 DBA AND 15 DBA OVER THE MOST REMOTE LOCATION WITHIN	THE AMBIENT CONDITIC
WF	WATER FLOW SWITCH		SOUND POWER SHALL BE MEASURED (PROCEEDING EACH VOICE MESSAGE. 1	OFF THE TEMPORAL PAT
VS	TAMPER SWTICH	PLATE NUMBER WHERE SECTION, DETAIL OR ELEVATION IS TAKEN	SHALL BE UTILIZED FOR REVIEW AND A THE ACTUAL PERFORMANCE AT FINIAL	PPROVAL OF SHOP DRA
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	DETAIL OR ELEVATION IS TAKEN	SYSTEM ACCEPTANCE.	
PACP	PREACTION RELEASING PANEL		A. THE SOUND POWER SHALL BE RE THE DISTANCE BETWEEN THE AP	
ASFP	AIR SAMPLING CONTROL DETECTOR PANEL		DOUBLED. STARTING DISTANCE I DATASHEET. TYPICALLY 10 FT.	
ESR	ELEVATOR SYSTEM RECALL PANEL (BY DIVISION 14)		B. THE SOUND POWER SHALL BE RE	DUCED IN ACCORDANC
SIM	SIMULATOR CONTROL SYSTEM		WITH THE MANUFACTURER'S DAT POWER DISTRIBUTION NOT PERP	ASHEET FOR SOUND
SOL	SOLENOID		SPEAKER FACE. REFER TO MANU OUTPUT DISTRIBUTION DIAGRAM	FACTURER'S TYPICAL S
	SUPERVISED DISCONNECT		C. A 15 DBA LOSS SHALL BE ASSUM	ED THROUGH A STANDA
1			CLOSED DOOR.	
$\langle \mathbf{\tilde{C}}_{R} \rangle$	IN-DUCT PHOTOELECTRIC SMOKE DETECTOR R = RETURN		4. INTELLIGIBILITY SHALL MEET THE FOLL	
$\langle \mathbf{V}_{P} \rangle$	S = SUPPLY CEILING MOUNTED SMOKE DETECTOR		A. NORMALLY UNOCCUPIED ROOMS STORAGE ROOMS, MECHANICAL	ROOMS, RISER ROOMS,
∖ ⊡ ∕ P	P = PHOTOELECTRIC		ELECTRICAL ROOMS, JANITOR RO CLOSETS, ELEVATOR MACHINE R SHALL BE CONSIDERED NORMAL	OOMS. ALL OTHER ROO
	VALL MOUNTED LOUD SPEAKER		B. IN ROOMS WITH ACOUSTICAL CE	LINGS, A CIS SCORE OF
	WP = WEATHER PROOF		SHALL BE ACHIEVED IN THE MOS AT 5 FT ABOVE FINISHED FLOOR.	REMOTE AREA OF THE
Ľ	SPEAKER / HORN		C. IN NORMALLY OCCUPIED ROOMS	
\bigtriangledown			WALLS, AN OCCUPANT MAY TRAV UNRESTRICTED ACCESS TO REA	
∇	SPEAKER / HORN STROBE COMBINATION		D. IN NORMALLY UNOCCUPIED ROO	
$\mathbf{\hat{O}}$	STROBE		UP TO 50 FT THROUGH UNRESTR AREA OF 0.80 CIS.	ICTED ACCESS TO REAC
F	M = MASS NOTIFICATION, AMBER LABELED "ALERT"		5. PROVIDE ON THE EXTERIOR WEATHER	
	F = FIRE ALARM NOTIFICATION, CLEAR, LABELED "FIRE"		EXTERIOR COMMON AREAS SUCH AS C SMOKING AREA, SIDEWALKS LEADING T SDEAKERS SHALL MEET A MINIMUM OF	O A PUBLIC STREET. EX
\mathbb{V}	ANTENNA		SPEAKERS SHALL MEET A MINIMUM OF AVERAGE AMBIENT CONDITIONS, WITH FROM THE DOOR.	
\bigcirc	ADDRESSABLE INPUT MODULE		6. LOCATE SMOKE DETECTOR OVER FACE	P, NAC, AMP, FTR AND P
	ADDRESSABLE OUTPUT MODULE		PANEL.	
<∕ AOM	ADDRESSADLE OUTPUT MODULE			
Ŧ	GROUND			



FINITIVE DESIGN NOTES ERAL FIRE ALARM AND MASS NOTIFICATION NOTES:

SYSTEM SHALL BE A COMBINED FIRE ALARM / MASS NOTIFICATION TEM.

FIRE ALARM / MASS NOTIFICATION DRAWINGS ARE SCHEMATIC IN URE AND SHOW A MINIMAL QUANTITY OF DEVICES. CONTRACTOR ILL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN CORDANCE WITH THE SPECIFICATIONS, CONTRACT DRAWINGS, AND IUFACTURER'S WRITTEN RECOMMENDATIONS TO BE COMPLIANT WITH APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE OVIDED FOR A FULLY FUNCTIONING FIRE ALARM SYSTEM AS REQUIRED NFPA 72, UFC 3-600-01, UFC 4-021-01, AFI 91-203.

SYSTEMS WHICH REQUIRE COORDINATION BETWEEN TRADES SHALL TO THE SATISFACTION OF THE CONTRACTING OFFICER AND AHJ. ANY ICIENCIES, INCONSISTENCIES, AND POORLY COORDINATED FALLATIONS SHALL BE CORRECTED BY THE CONTRACTOR.

ER TO FIRE SUPPRESSION DRAWINGS FOR ADDITIONAL INFORMATION COORDINATION OF TAMPER SWITCHES, FLOW SWITCHES, PRESSURE TCHES, LEVEL SWITCHES, ETC...

ER TO LIFE SAFETY PLAN FOR LOCATION OF FIRE RATED BARRIERS LOCATION OF DOORS ON HOLD OPENS. WHERE HOLD OPEN DOORS NOTED ON THE LIFE SAFETY PLANS, PROVIDE SMOKE DETECTION AND OR RELEASE IN ACCORDANCE WITH NFPA 72.

HANDLING UNITS OVER 2,000 CFM SHALL BE PROVIDED WITH SUPPLY RETURN DUCT SMOKE DETECTORS. EXHAUST FANS DO NOT REQUIRE T SMOKE DETECTORS. REFER TO MECHANICAL PLANS FOR ADDITIONAL QUIREMENTS AND LOCATIONS.

ELECTRICAL WORK SHALL COMPLY WITH SPECIFICATIONS, CONTRACT WINGS, NEC (NFPA 70), NFPA 72, NFPA 101, AND APPLICABLE CODES STANDARDS. ALL GROUNDING SHALL COMPLY WITH NEC ARTICLE 250.

CONDUITS SHALL BE CONCEALED IN WALLS, FLOOR SLABS OR LINGS UNLESS OTHERWISE INDICATED. EXCEPTION: CONDUIT SHALL BE OWED TO BE SURFACE MOUNTED ON BLOCK WALLS IN UNFINISHED AS (E.G. MECHANICAL ROOM, ELECTRICAL ROOM, RISER ROOM).

NDUIT SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH THE NEC 5.10 FT INTERVALS AND 3 FT FROM TERMINATION). TENSION ONLY IGERS ARE NOT PERMITTED (E.G. BATWINGS). TYPE OF CONDUIT IZED SHALL BE IN ACCORDANCE WITH THE ELECTRICAL CIFICATIONS UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT IS ONLY MITTED FOR TERMINATION AT DEVICES MOUNTED ON PIPING OR SJECTED TO REMOVAL (E.G. FLOW SWITCHES, TAMPER SWITCHES, AKERS AND STROBES MOUNTED IN REMOVABLE CEILINGS).

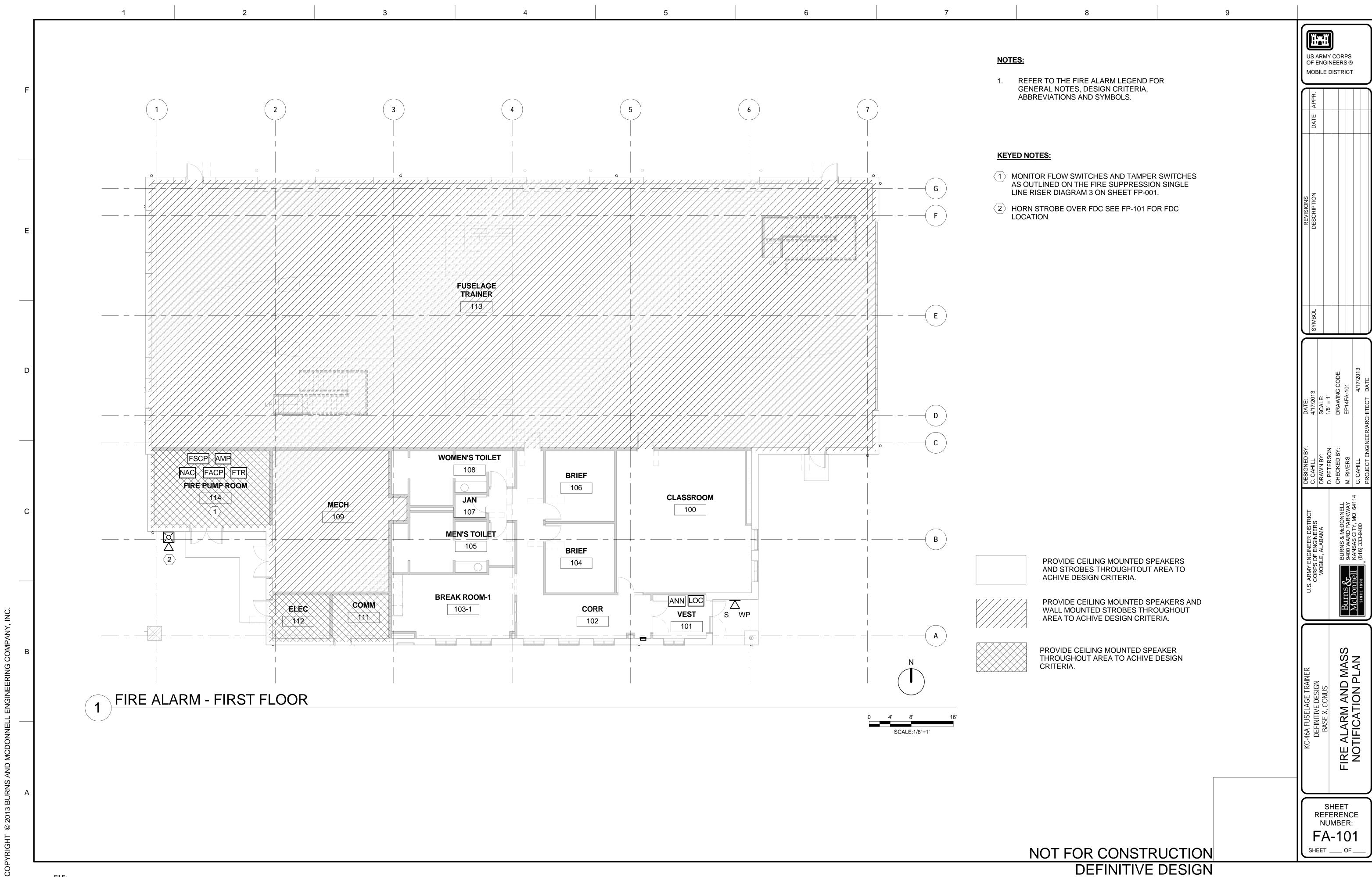
CONDUCTORS SHALL BE CONSISTENTLY COLOR COORDINATED OUGH THE SYSTEM IN RELATION TO DEVICES THEY FEED (E.G. SLC -CK/RED, STROBE - YELLOW/BLUE, SPEAKER - BLACK/BROWN). ELDING SHALL BE GROUNDED AT ONE END OF THE CIRCUIT. ALL CUITS SHALL BE PROVIDED WITH LABELING AT POINT OF TERMINATION.

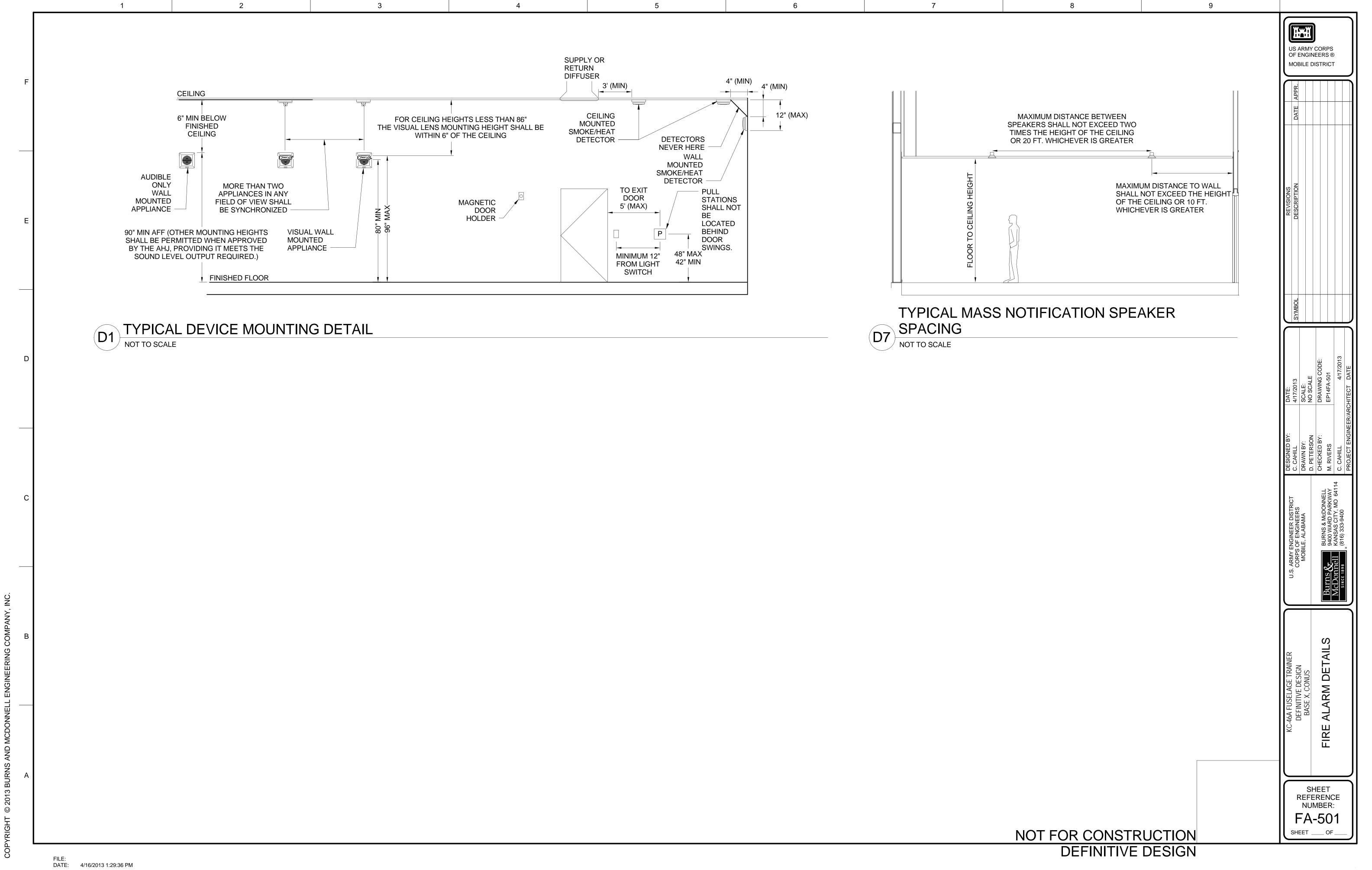
E ALARM EQUIPMENT PANELS SHALL NOT BE USED AS RACEWAY FOR JTING POWER WIRING OR LOW VOLTAGE WIRING. ONLY WIRING MINATING WITH THE PANEL SHALL BE ROUTED INTO THE PANEL. VER WIRING AND POWER LIMITED WIRING SHALL BE SEPARATED BY A IMUM OF TWO INCHES WITHIN THE EQUIPMENT PANELS.

JNTING DEVICES IN THE FACP, FSCP, NAC BOOSTER PANELS, AMP OSTER PANELS, AND TRANSCEIVER PANELS WHICH ARE NOT UL LISTED PART OF THE PANEL IS PROHIBITED (E.G. MOUNTING AN ADDRESSABLE JT MODULE IN A FACP IS NOT PERMITTED.)

POWER SUPPLIES TO FACP, FSCP, NAC BOOSTER PANELS, AMP STER PANELS, AND TRANSCEIVER PANELS SHALL BE PROVIDED WITH S. ALL SLC, NAC, OR IDC CIRCUITS ENTERING OR LEAVING THE BUILDING LL BE PROVIDED WITH TVSS. EXCEPTION: CIRCUITS TO DEVICES JNTED DIRECTLY ON THE EXTERIOR OF THE BUILDING DO NOT REQUIRE S (E.G. EXTERIOR ALARM BELL). TVSS SHALL BE MOUNTED IN A ARATE ENCLOSURE (E.G. MOUNTING THE TVSS IN THE FACP LOSURE IS NOT PERMITTED).

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	KC-46A FUSELAGE TRAINER	II S ARMY ENGINEER DISTRICT	DESIGNED BY:	DATE:		REVISIONS		C
	DEFINITIVE DESIGN	CORPS OF ENGINEERS	C. CAHILL	4/17/2013	SYMBOL	DESCRIPTION	DATE APPR.	is A DF e 10e
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E BE		DURNS & MCDONNELL						R
		BUITNS X- 9400 WARD PARKWAY	M. RIVERS	EP14FA-001				S
נ:) 1		MeDonall kanese city and 64114						R
		T	C. CAHILL	4/17/2013				





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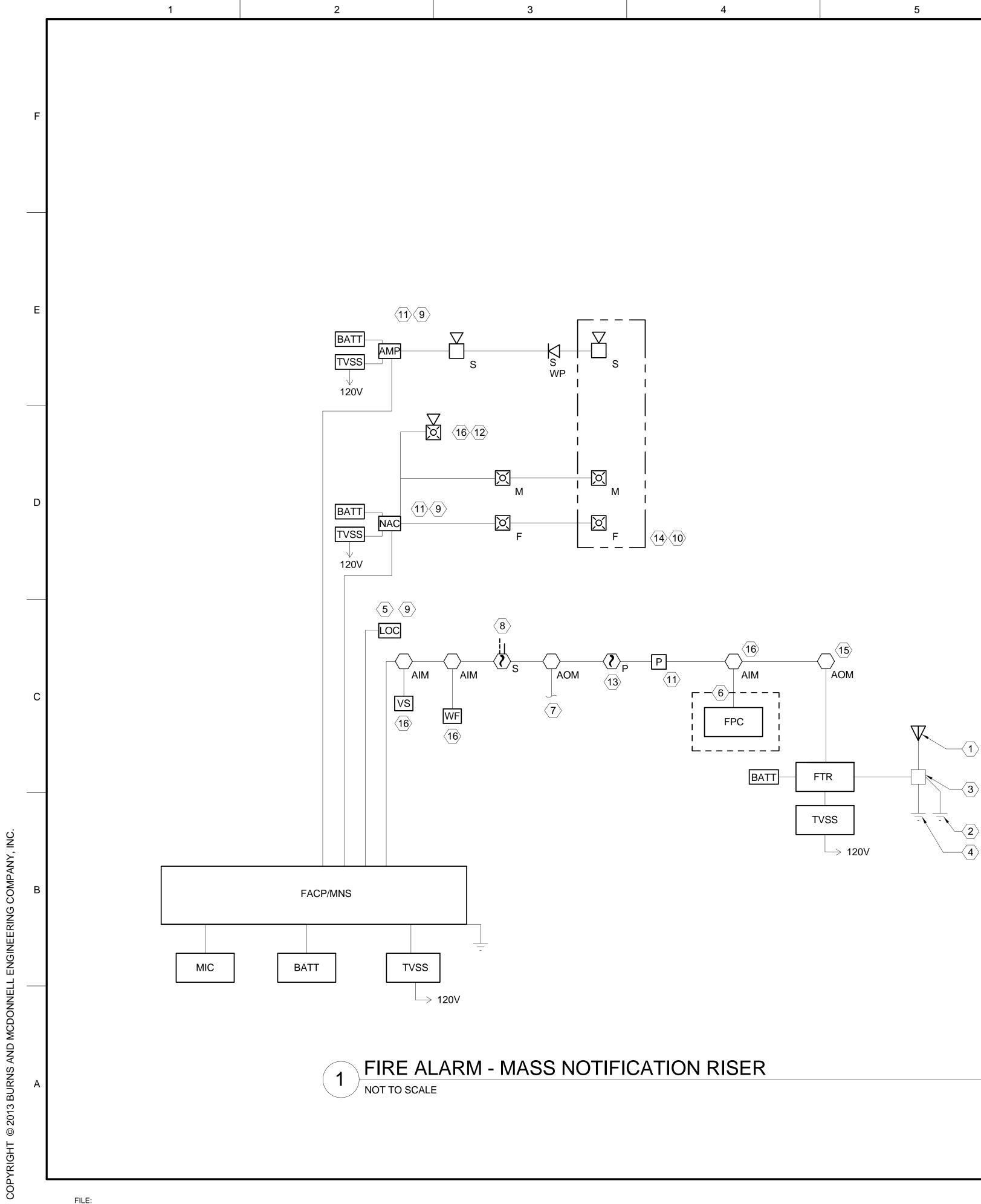
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NOTES:

- 1. REFER TO THE FIRE ALARM LEGEND FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS, AND SYMBOLS.
- 2. THE FIRE ALARM RISER SHOWS THE INTENT OF THE FIRE ALARM INFRASTRUCTURE. NOT ALL DEVICES ARE SHOWN. CONTRACTOR SHALL PROVIDE THE QUANTITY OF DEVICES AS REQUIRED TO COMPLY WITH NFPA 72, UFC 3-600-01, UFC 4-021-01 AND CONTRACT DOCUMENTS.
- 3. EACH FLOW AND TAMPER SWITCH SHALL REPORT BACK TO THE ALARM CONTROL PANEL WITH A SEPARATE ADDRESS. GROUPED SWITCHES ON ONE ADDRESS ARE NOT ACCEPTABLE.

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KE	YED NOTES:	
$\langle 1 \rangle$	MOUNT RADIO TRANSCEIVER ANTENNA PER MANUFACTURERS RECOMMENDATION	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
$\langle 2 \rangle$	COORDINATE GROUNDING METHOD WITH ELECTRICAL ENGINEER	
3	LIGHTNING ARRESTOR KIT	APPR
4	PROVIDE #6 AWD TO BUILDING COUNTERPOISE	DATE
5	PROVIDE LOC PANEL AS SHOWN ON DRAWINGS	
6	PROVIDED BY PUMP CONTRACTOR IF PUMP IS REQUIRED	
$\langle 7 \rangle$	PROVIDE DIRECT SHUTDOWN OF AIR HANDLING EQUIPMENT	7
8	PROVIDE SUPPLY AND RETURN SMOKE DETECTORS IN AIR HANDLING UNITS GREATER THAN 2000 CFM	DESCRIPTION
9	REFER TO FIRE ALARM PLANS FOR QUANTITY AND/OR LOCATION	DES
$\langle 10 \rangle$ $\langle 11 \rangle$	PROVIDED BY TRAINER CONTRACTOR QUANTITY AND/OR LOCATION PER CONTRACTOR DESIGN TO MEET DESIGN CRITERIA	
(12)	HORN STROBE OVER SPRINKLER FDC	
(13)	SMOKE DETECTION AT ALL AMP, NAC, FACP, AND FTR.	
	TO TRAINER FIRE ALARM NOTIFICATION DEVICES	SYMBOL
(15)	FINAL QUANTITY IN ACCORDANCE WITH FIRE ALARM MATRIX	
(16)	REFER TO FIRE SUPPRESSION DRAWINGS FOR LOCATIONS	
		DESIGNED BY:DATE:C. CAHILLA/17/2013C. CAHILL4/17/2013DRAWN BY:SCALE:D. PETERSONNO SCALE:D. PETERSONNO SCALE:M. RIVERSDRAWING CODE:M. RIVERSEP14FA-601C. CAHILL4/17/2013PROJECT ENGINEER/ARCHITECTDATE
		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400 (816) 333-9400
		KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS FIRE ALARM RISER
NOT	FOR CONSTRUCTION	SHEET REFERENCE NUMBER: FA-601 SHEET OF

DEFINITIVE DESIGN

1	2	3	4	5	
					FIRE ALARM
					ALARM CC
					SMOKE DET
					IN-DUCT SM MANUAL PL
					FLOW SWIT
					MASS NOTI
					TROUBLE AC POWER
					LOW BATTE
					OPEN CIRC GROUND F
					NOTIFICATI
					AMPLIFIER COMPONEN
					SUPERVIS
					SPRINKLE
					PUMP RUN PUMP LOS
					PUMP PHA
					PUMP ROO NOTIFICAT
					AMPLIFIER COMPONE
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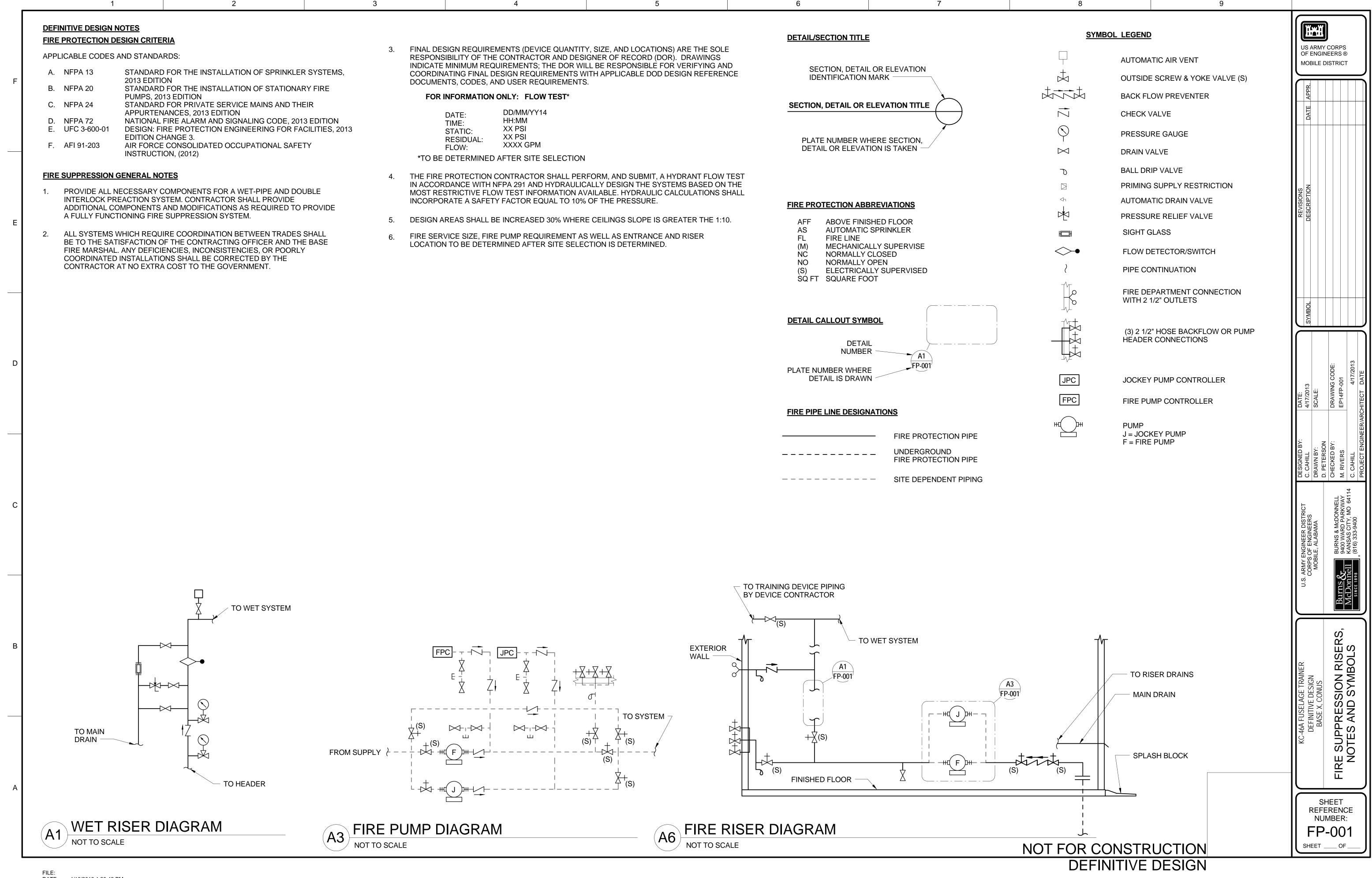
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	ZONE		IUNCIAT OCAL PA			NC	DTIFICA					AUXILIARY FUNCTION
ALARM CONDITIONS	UNIQUE ZONE COUNT TO BE TRANSMITTED THROUGH MONACO SYSTEM	AUDIO-VISUAL FIRE ALARM INDICATION BY DEVICE/ZONE	AUDIO-VISUAL TROUBLE INDICATION BY DEVICE\ZONE	AUDIO-VISUAL SUPERVISORY INDICATION BY DEVICE\ZONE	COMMON ALARM SIGNAL TO FIRE DEPARTMENT	COMMON TROUBLE CONDITION TO FIRE DEPARTMENT	COMMON SUPERVISORY SIGNAL TO FIRE DEPARTMENT	FACILITY FIRE ALARM AUDIO-VISUAL SIGNAL	ACTIVATE FDC HORN/STROBE	OVER RIDE FIRE ALARM AUDIO-VISUAL SIGNAL	MASS NOTIFICATION ANNOUNCEMENT	SHUT-DOWN ASSOCIATED AIR HANDLING EQUIPMENT
SMOKE DETECTOR OVER PANELS	1	Х			Х			Х				
IN-DUCT SMOKE DETECTOR	3			Х			Х					Х
MANUAL PULL STATION	1	Х			Х			Х				
FLOW SWITCH - WET-PIPE SYSTEM	1	Х			Х			Х	Х			
MASS NOTIFICATION INPUT	3			Х						Х	Х	
TROUBLE CONDITIONS AC POWER FAILURE	2		x			Х						
LOW BATTERY	2		X			 Х						
OPEN CIRCUIT FAULT	2		X			X						ļ
GROUND FAULT	2		X			X						
NOTIFICATION APPLIANCE COMMON TROUBLE	2		X			X						
AMPLIFIER COMMON TROUBLE	2		X			X						
COMPONENT COMMON TROUBLE	2		X			X						
SUPERVISORY SIGNALS												
SPRINKLER SYSTEM TAMPER SWITCH	3			Х			Х					
PUMP RUNNING*	3		1	Х			Х					
PUMP LOSS OF POWER*	3			Х			Х					
PUMP PHASE REVERSAL*	3			Х			Х					
PUMP ROOM TEMPERATURE MONITORING*	3			Х			Х					
NOTIFICATION APPLIANCE COMMON SUPERVISORY	3			Х			Х					
AMPLIFIER COMMON SUPERVISORY	3			Х			Х					
COMPONENT COMMON SUPERVISORY	3			Х			Х					



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DATE APPR.					
REVISIONS DESCRIPTION					
SYMBOL					
DATE: 4/17/2013	SCALE: NO SCALE	DRAWING CODE:	EP14FA-602	4/17/2013	PROJECT ENGINEER/ARCHITECT DATE
DESIGNED BY: C. CAHILL	DRAWN BY: D. PETERSON		M. RIVERS	C. CAHILL	
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS	MOBILE, ALABAMA	BURNS & McDONNELL	MCDCCCCI 9400 WARD PARKWAY	INTOUTILIEIL NANSAS CITT, MO 04114 since 1898 (816) 333-9400	
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN	BASE X, CONUS	FIRE ALARM MATRIX			
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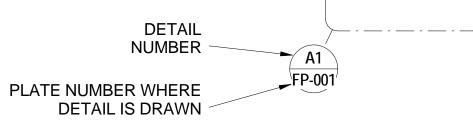
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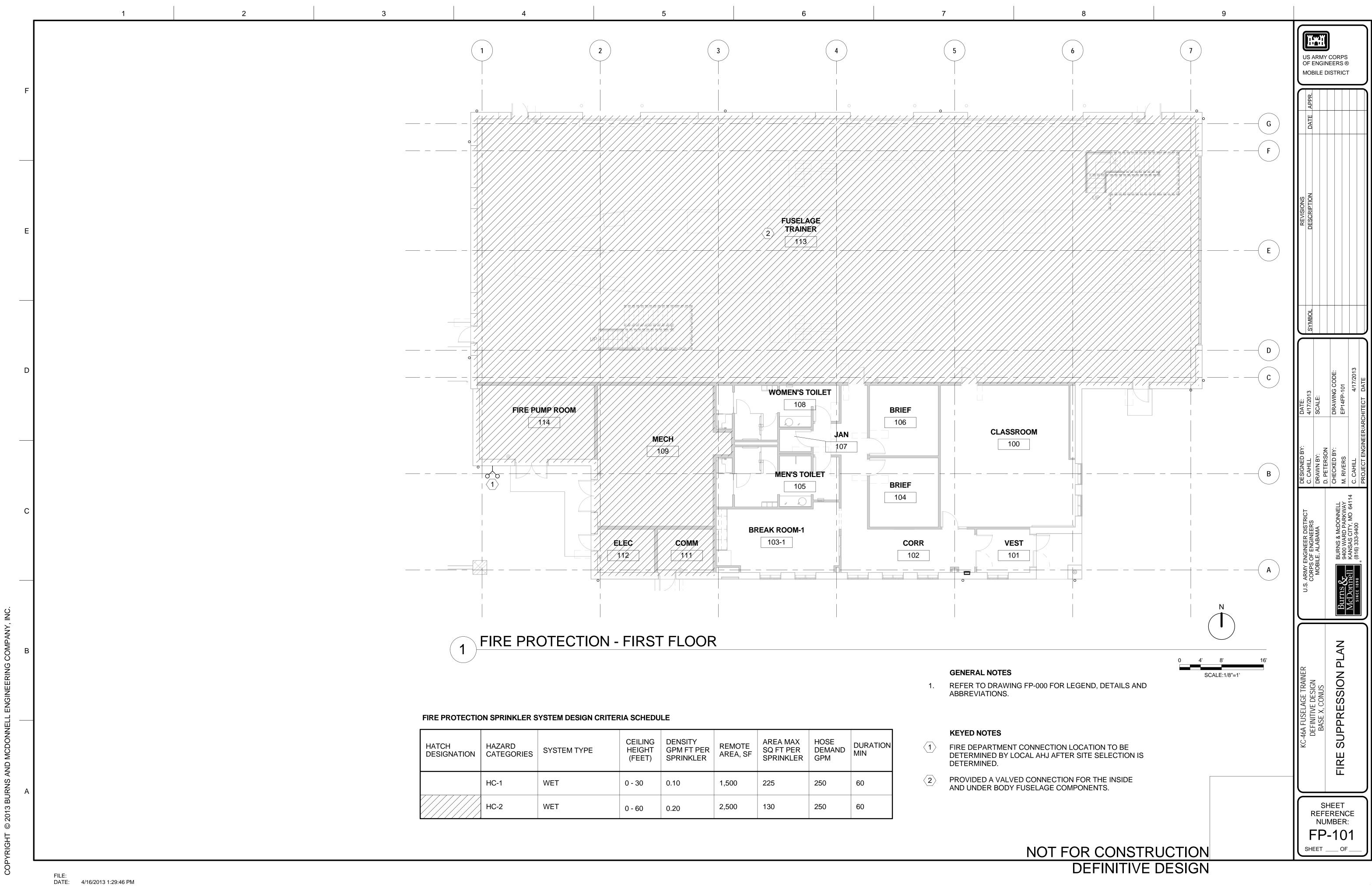
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 FIRE PROTECTION PIPE
 UNDERGROUND FIRE PROTECTION PIPE
 SITE DEPENDENT PIPING



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HAZARD CATEGORIES	SYSTEM TYPE	CEILING HEIGHT (FEET)	DENSITY GPM FT PER SPRINKLER	REMOTE AREA, SF	AREA MAX SQ FT PER SPRINKLER	HOSE DEMAND GPM	DURATION MIN
HC-1	WET	0 - 30	0.10	1,500	225	250	60
HC-2	WET	0 - 60	0.20	2,500	130	250	60

3	
SYMBOLS - LIGHTING PLAN	
CLASSROOM - ROOM / SPACE TAG	

		WIRE IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALL (WHEN INDICATED)
-		WIRE IN CONDUIT, ROUTE EXPOSED (WHEN INDICATED)
		WIRE IN CONDUIT ROUTE BELOW GRADE OR FLOOR SLAB
		EXISTING WIRE IN CONDUIT TO BE DEMOLISHED AND REPLACED WITH NEW
	—— E ——	ELECTRICAL DUCTBANK
	—_C—_	COMMUNICATIONS DUCTBANK

SYMBOL N

С EP OR E F GFI IG Ρ W WPIU

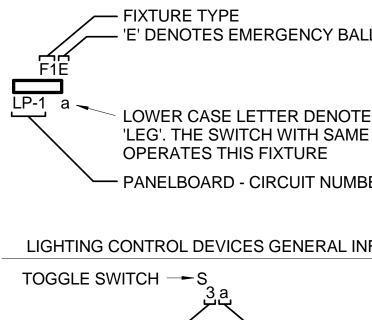
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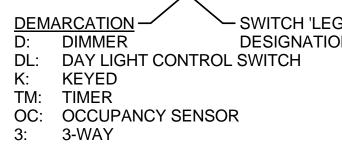
CONDUIT

MODIFIERS						
EXP	RECESSED IN CEILING EXPLOSION PROOF RECESSED IN FLOOR GROUND FAULT CIRCUIT INTERRUPTER ISOLATED GROUND PILOT LIGHT (INDICATING SWITCH IS ON WALL MOUNTED, 48" AFF WEATHERPROOF IN USE					

MATRIX OF RESPONSIBILITIES							
		GFGI	CFCI	ELECTRIC UTILITY (SUB TO GC OR ES)			
<u>POWER</u>							
SERVICE TI CONCRETE	RANSFORMER AND PAD		х				
MANHOLES	AND HANDHOLES		х				
PRIMARY C	ABLES AND TERMINATIONS		х				
PRIMARY A DUCTBANK	ND SECONDARY S		Х				
SECONDAR TERMINATI	Y CABLES AND ONS		X				
<u>NOTES</u>							
1. NOT ALL SYSTEM COMPONENTS ARE LISTED ABOVE. CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER COMPONENTS AS INDICATED ON DRAWINGS AND IN SPECIFICATIONS. ONLY SYSTEM COMPONENTS WHICH COMMONLY REQUIRE CLARIFICATION ARE LISTED ABOVE.							
ABBREVIAT	IONS						
GFGI GOVERNMENT-FURNISHED, GOVERNMENT-INSTALLED CFCI CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED ES ELECTRICAL SUBCONTRACTOR GC GENERAL CONTRACTOR							

LIGHTING FIXTURES (REFER TO DRAWINGS LIGHTING FIXTURE SHAPES VARY ON DRA REFER TO FIXTURE SCHEDULE FOR FIXTURE T LINEAR FLUORESCENT FIXTURE EXTERIOR WALL-MOUNTED FIXTURE DOWNLIGHT OR PENDANT FIXTURE 0 •Ò EXTERIOR POLE-MTD FIXTURE EXIT SIGNS, CEILING: ARROW INDICAT H**⊉**H⊗, ' EXIT SIGNS, WALL: ARROW INDICATES FIXTURE GENERAL INFORMATION





3: 3-	-WAY
4: 4-	-WAY

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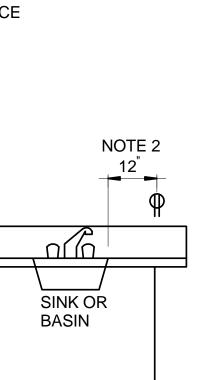
SYMBOLS - LIGHTING PLAN	5 6 YMBOLS - POWER PLAN	SYMBOLS - ONE-LINE DIAGRAM	, ,
CLASSROOM - ROOM / SPACE TAG	START/STOP, MOMENTARY CONTACT PUSHBUTTON SWITCH		US ARMY CORPS OF ENGINEERS ®
CTRL: LC <u>LIGHTING CONTROL TYPE DESIGNATIONS</u> LC0: LOCAL ON/OFF SWITCH CONTROL ONLY. LC1: LOCAL OCCUPANCY SENSOR CONTROL WITH ON/OFF SWITCH OVERRIDE.		SEPARABLE CONNECTOR OR CONNECTION FOR DRAWOUT ASSEMBLIES	
LC2: LOCAL OCCUPANCY SENSOR CONTROL WITH FULL-RANGE DIMMING.	RECEPTACLES (NEMA 5-20R UON)	MH MANHOLE	APP
LC3: OCCUPANCY SENSOR WITH SENSOR CONNECTED TO RELAY PANEL.	Φ RECESSED SIMPLEX	FUSED DISCONNECT SWITCH	DATE
LC4: DAYLIGHT SENSOR CONTROL WITH MULTI-LEVEL SWITCHING AND ON/OFF.AUTO SWITCH CONTROL.	RECESSED DUPLEX TV=COORDINATE WITH TV LOCATION		
LC5: ALWAYS ON, CONTROLLED BY CIRCUIT BREAKER ONLY.			
	\oplus DUPLEX, CEILING MTD	GROUND - GROUND	
LIGHTING FIXTURES (REFER TO DRAWINGS FOR SIZES)	SPECIAL (REFER TO DRAWINGS FOR NEMA CONFIGURATION)	Δ Y DELTA - WYE TRANSFORMER CONNECTION	NOITON
LIGHTING FIXTURE SHAPES VARY ON DRAWINGS REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE DIMENSIONS	FLOORBOX: QUAD RECEPT. / COMM	DM DIGITAL METER SPD SURGE PROTECTION DEVICE	REVIS
	(REFER TO COMM DETAILS FOR FACEPLATE TYPE)	VFD VARIABLE FREQUENCY DRIVE	
	SURFACE SIMPLEX	ST SHUNT TRIP	
EXTERIOR WALL-MOUNTED FIXTURE	SURFACE DUPLEX	KILOWATT HOUR METER	
O DOWNLIGHT OR PENDANT FIXTURE	SURFACE QUAD	VOLTMETER SELECTOR SWITCH	
• EXTERIOR POLE-MTD FIXTURE		AS AMMETER SELECTOR SWITCH	
	JUNCTION BOXES	VOLTMETER VOLTMETER	SYME
EXIT SIGNS, CEILING: ARROW INDICATES	RECESSED JBOX, WALL MTD	AMMETER	
EGRESS EXIT SIGNS, WALL: ARROW INDICATES EGRESS	SURFACE JBOX, WALL MTD	CIRCUIT BREAKER	
	JBOX RECESSED IN FLOOR	SWITCH	CODE:
FIXTURE TYPE 'E' DENOTES EMERGENCY BALLAST	D: INDICATES DOGHOUSE	DISCONNECT SWITCH	E: 2013 4/- 4/- 4/-
F1E	JBOX MTD ABOVE CEILING (UNLESS OTHERWISE INDICATED)	SPECIAL RECEPTACLE	DAT 4/17/ SCA DRA DRA EP14
LP-1 a LOWER CASE LETTER DENOTES SWITCH 'LEG'. THE SWITCH WITH SAME LETTER	M MECHANICAL EQUIPMENT CONNECTION	PANELBOARD (PANELBOARD NAMED 'P11') P11	
OPERATES THIS FIXTURE	DISCONNECT SWITCHES (NEMA 1, 30A/3P, 480V UON)	NAMING CONVENTION:	BBY: SON SBY:
PANELBOARD - CIRCUIT NUMBER	FUSED DISCONNECT SWITCH	P11 └── EQUIPMENT NUMBER	SIGNEI SIGNEI AWN B AWN B ECKEL
LIGHTING CONTROL DEVICES GENERAL INFORMATION	COMBO MOTOR STARTER/DISCONNECT	EQUIPMENT TYPE:	
	SM MOTOR-RATED SWITCH (120V ONLY)	H 480Y/277V GENERAL	NNELL SICT SKWAY VIO 64114
DEMARCATION	POWER DEVICES GENERAL INFORMATION	P 208Y/120V GENERAL T TRANSFORMER	ERS PARKV 00
D: DIMMER DESIGNATION DL: DAY LIGHT CONTROL SWITCH		MDP MAIN DISTRIBUTION PANEL	EER DI ABAME 333-94 CIT
K: KEYED TM: TIMER	<u>[EF-x]</u>		BURN (816) 8 OF EN 8 ANS 8 (816)
OC: OCCUPANCY SENSOR 3: 3-WAY 4: 4-WAY	EQUIPMENT IDENTIFICATION (JBOXES ONLY)	$\rightarrow \circ \neg _{i}$ LIGHTNING ARRESTOR	ARMY
NOTE: NO DEMARCATION OR SWITCH 'LEG'	LINDICATED)		U.S. ARM CORF MCDonnell SINCE 1898
INDICATES THAT THE SWITCH CONTROLS ALL OF THE FIXTURES WITHIN THE SAME ROOM	AMPACITY TYPE (D=DISCONNECT, S=STARTER, MS=MOTOR RATED SW)		
	_GROUNDING DEVICES GENERAL INFORMATION		
	GROUND ROD		L S L
	EXOTHERMIC WELD		RAINER IGN OF 2
			LAGE TRAINER FE DESIGN CONUS 0 - 1 OF 2
	GROUND BUSBAR		D - COL
	GROUND TEST WELL		KC-46A FUSEL DEFINITIVE BASE X, (LEGEND
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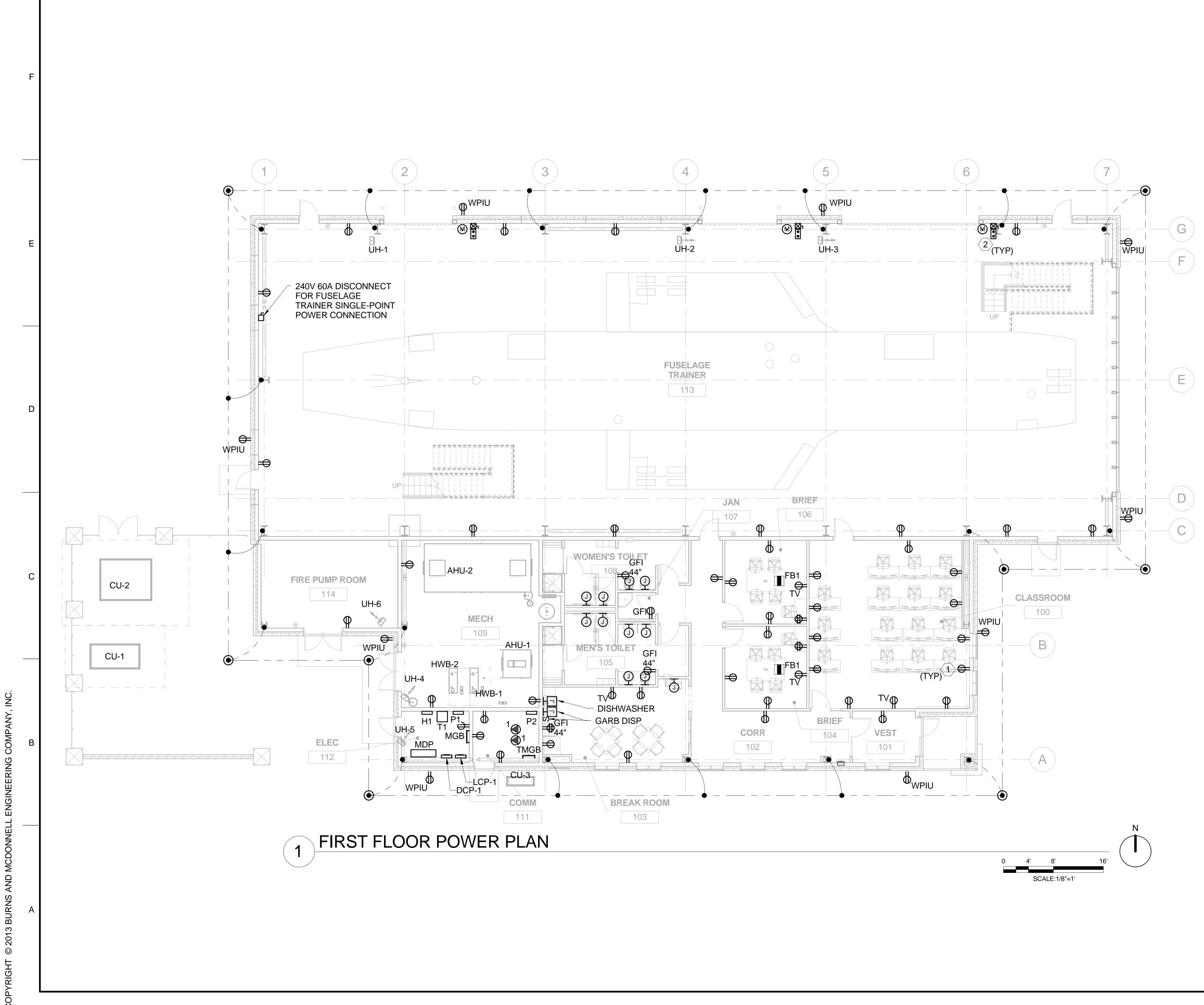
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ALL CONTRACTOR NO. CONTRACTOR NO. CONTRACTOR NO. A MARKED A MARKE		ABBREVIATIONS		DEFINITIVE DESIGN NOTES	=
 TYPICAL DEVICE MOUNTING DETAIL TYPICAL FIRE ALANIM TYPICAL FIRE ALANIMA <li< th=""><th>CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL EXISTING AND NEW SWITCHBOARDS AND PANELBOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARD IN ACCORDANCE WITH NFPA 70 AND 70E. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR REGARDING ELECTRICAL REQUIREMENTS OF ACTUAL EQUIPMENT PROVIDED. MOUNTING HEIGHT FOR LIGHT FIXTURES SHALL BE FROM THE BOTTOM OF FIXTURES TO THE FINISHED FLOOR. ALL SYSTEMS THAT REQUIRE COORDINATION BETWEEN TRADES SHALL BE TO THE SATISFACTION OF THE CONTRACTING OFFICER. ANY DEFICIENCIES, INCONSISTENCIES, OR POORLY COORDINATED INSTALLATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXTRA COST TO THE GOVERNMENT. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC (NFPA 70), NFPA 72, NFPA 101, AND APPLICABLE MILITARY CODES OR TECHNICAL LETTERS, IN ADDITION TO LOCAL CODES AND ORDINANCES. ALL GROUNDING SHALL COMPLY WITH NFPA 70, ART. 250 AND AFI 32-1065. PROVIDE A GREEN CONTINUOUS INSULATED EQUIPMENT GROUNDING CONDUCTOR TO ALL ELECTRICAL, TELECOMMUNICATIONS AND SECURITY EQUIPMENT</th><th>ACALTERNATING CURRENTAFFABOVE FINISHED FLOORAICAMPERES INTERRUPTING CAPACITYAVAUDIO/VIDEOAWGAMERICAN WIRE GAUGEBASBUILDING AUTOMATION SYSTEMCCONDUITCATCATEGORYCATVCABLE TELEVISIONCBPCOPPER BACKBONE PATCH PANELCCNCLASSIFIED NETWORK (FIBER) FOR OTHERSCCTVCLOSED CIRCUIT TELEVISIONCLCENTERLINECOMMCOMMUNICATIONSCPPCOPPER HORIZONTAL PATCH PANELCTCABLE TRAYCUCOPPERDCDIRECT CURRENTECEQUIPMENT GROUNDING CONDUCTOREIAELECTRONICS INDUSTRIES ASSOCIATIONSEMTELECTRICAL METALLIC TUBINGEPOEMREGENCY POWER OFFEX OR EXPEXPLOSION PROOFFAAPFIRE ALARM CONTROL PANELFACPFIRE ALARM ANNUNCIATOR PANELFACPFIRE ALARM CONTROL PANELFACPFIBER OPTICFPDFIBER OPTICFPDFIBER OPTIC PATCH PANELFTFEET OR FOOTGBGROUND FAULT NTERRUPTERG OR GNDGOVERNMENT FURNISHED AND INSTALLEDGFIGROUND FAULT PROTECTIONGRSGALVANIZED RIGID STEEL CONDUITHIDHIGH INTENSITY DISCHARGEHZHERTZIDSINTRUSION DETECTION SYSTEMIGISOLATED GROUNDKKLIOKUHKULOVALT AMPERESKWHKILOVALT HOURS<th>MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL MGB MAIN GROUND BUS MH MANHOLE MLO MAIN LUGS ONLY MM MULTIMODE MNPA MASS NOTIFICATION/PUBLIC ADDRESS MTD MOUNTED N NEUTRAL CONDUCTOR NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NIC NOT IN CONTRACT NIPR NON-CLASSIFIED INTERNET PROTOCOL ROUTIN NO NORMALLY OPEN NTS NOT TO SCALE OC ON CENTER PDU POWER DISTRIBUTION UNIT PIV POST INDICATOR VALVE PR PAIR PVC POLYVINYL CHLORIDE RGS RIGID GALVANIZED STEEL CONDUIT RMC RIGID METAL CONDUIT SCR SIGID GALVANIZED STEEL CONDUIT RMC RIGID METAL CONDUIT SCR SIGID GALVANIZED TO PAIR SIPR SECRET INTERNET PROTOCOL ROUTING</th><th> INCLUDE DESIGN ASSUMPTIONS AND CONSIDERATIONS WHICH ARE AFFECTED BY THE SELECTED SITE LOCATION FOR THE FACILITY. 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ALL EXISTING AND NEW SWITCHBOARDS AND PANELBOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARD IN ACCORDANCE WITH NFPA 70 AND 70E. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR REGARDING ELECTRICAL REQUIREMENTS OF ACTUAL EQUIPMENT PROVIDED. MOUNTING HEIGHT FOR LIGHT FIXTURES SHALL BE FROM THE BOTTOM OF FIXTURES TO THE FINISHED FLOOR. ALL SYSTEMS THAT REQUIRE COORDINATION BETWEEN TRADES SHALL BE TO THE SATISFACTION OF THE CONTRACTING OFFICER. ANY DEFICIENCIES, INCONSISTENCIES, OR POORLY COORDINATED INSTALLATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXTRA COST TO THE GOVERNMENT. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC (NFPA 70), NFPA 72, NFPA 101, AND APPLICABLE MILITARY CODES OR TECHNICAL LETTERS, IN ADDITION TO LOCAL CODES AND ORDINANCES. ALL GROUNDING SHALL COMPLY WITH NFPA 70, ART. 250 AND AFI 32-1065. 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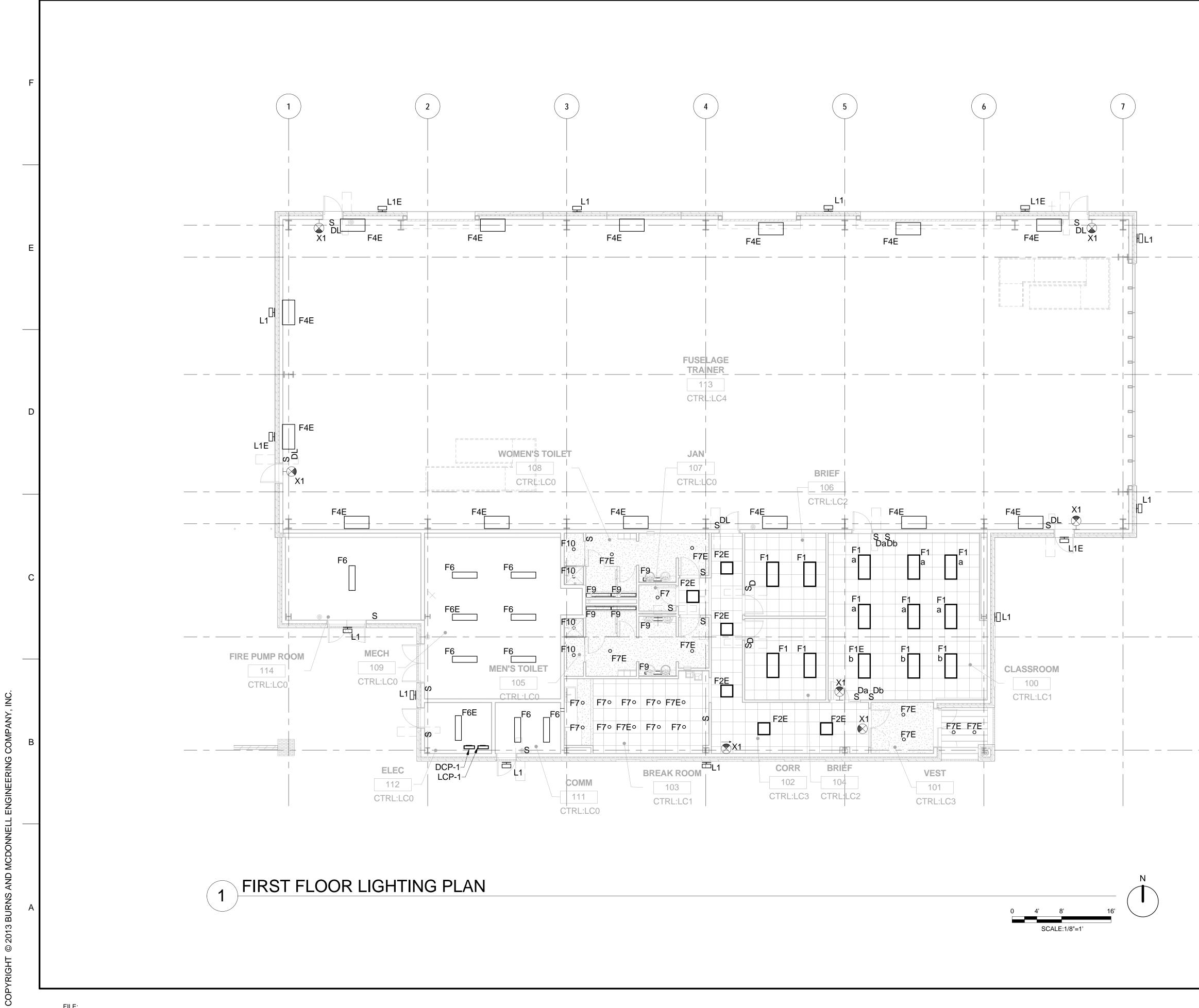
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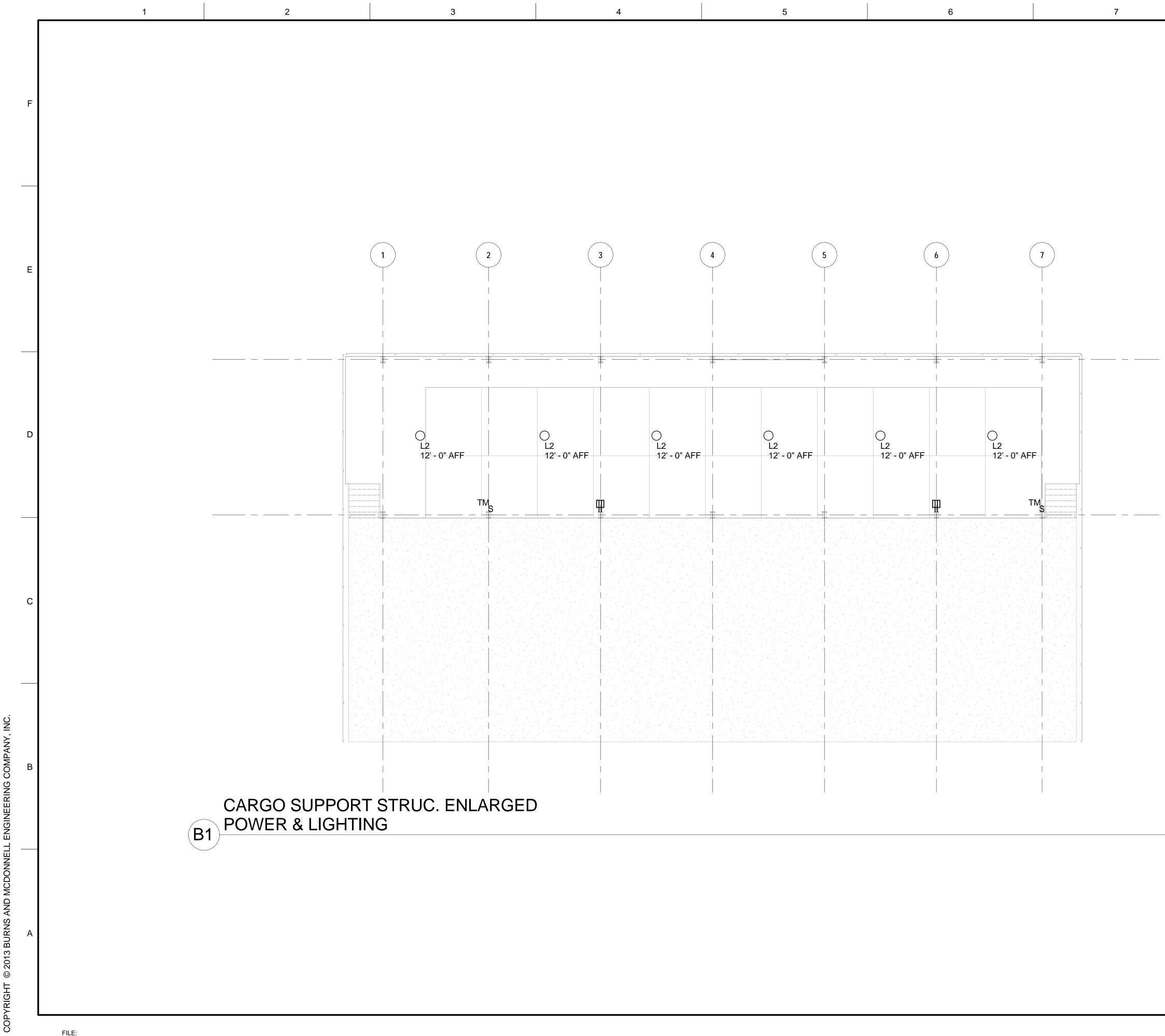
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DESIGNED BY:	C. SANBORN	DRAWN BY:					T. TOD	C. SANBORN		
II S ARMY ENGINEER DISTRICT	CORPS OF ENGINEERS	MOBILE, ALABAMA				BURNS & MCDONNELL	9400 WARD PARKWAY	INICUONNEIL KANSAS CITY, MO 64114		
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS								POWER & LIGHTING		
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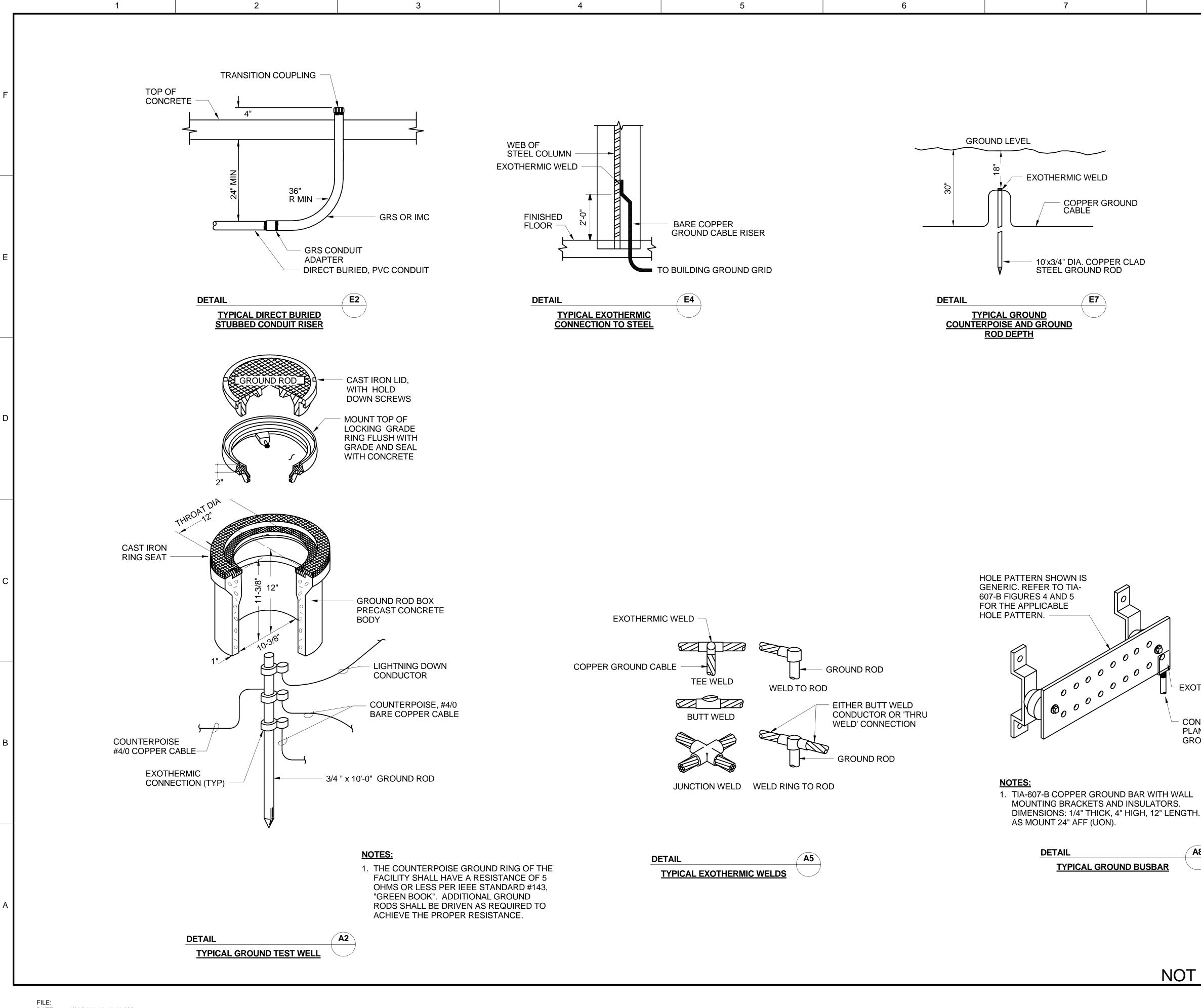
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U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA DRA						BURNS & MCDONNELL		MCDONNEIL KANSAS CITY, MO 64114	
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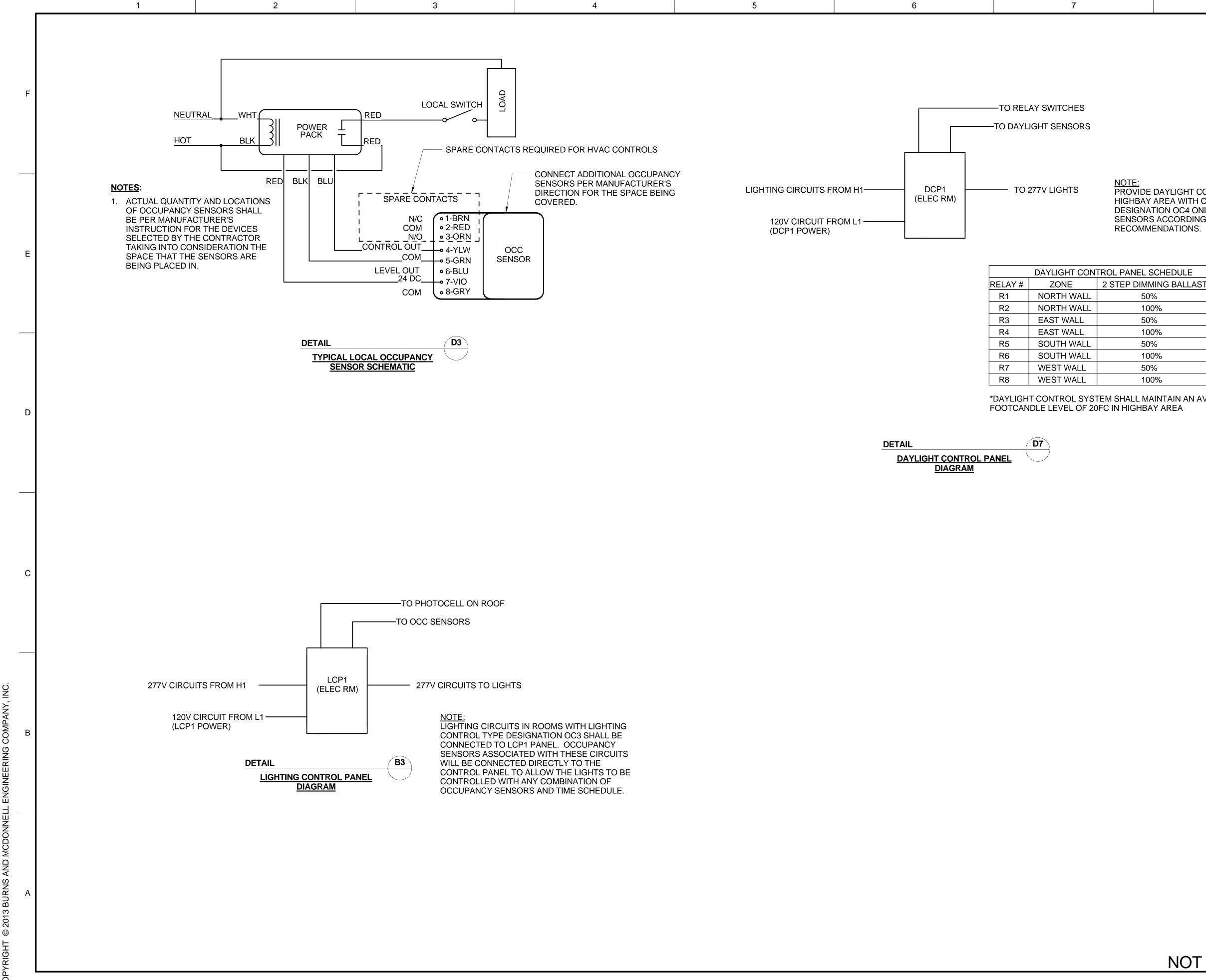
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*DAYLIGHT CONTROL SYSTEM SHALL MAINTAIN AN AVERAGE FOOTCANDLE LEVEL OF 20FC IN HIGHBAY AREA

	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT
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	DATE: 4/17/2013 SCALE: 12" = 1'-0" 12" = 1'-0" DRAWING CODE: EP14E-502 4/17/2013 X/ARCHITECT
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	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BURNS & MCDONNELL 9400 WARD PARKWAY MCDOMEL 8105 333-9400 (816) 333-9400
	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS LECTRICAL DETAILS

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NOTE: PROVIDE DAYLIGHT CONTROL SYSTEM FOR HIGHBAY AREA WITH CONTROL TYPE DESIGNATION OC4 ONLY. LAYOUT DAYLIGH SENSORS ACCORDING TO MANUFACTURER

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FIXTURE		LAMP INFC	RMATION			FIXTURE INFORMATION								
TYPE	TYPE QTY WATT	WATTAGE	TYPE	COLOR TEMP	VOLTAGE	WATTAGE	LOAD	DESCRIPTION	MOUNTING	MANUFACTURER				
F1	2	28	T5	3500 K	277 V	56 W	59 VA	2'X4' FLUORESCENT RECESSED INDIRECT	CEILING-RECESSED	LITHONIA (2RT5 28T5)				
F2E	2	14	T5	3500 K	277 V	28 W	30 VA	2'X2' FLUORESCENT RECESSED INDIRECT	CEILING, RECESSED	LITHONIA (2RT5 14T5)				
F4	6	54	T5HO	3500 K	277 V	324 W	342 VA	FLOURESCENT HIGH BAY (SEE NOTE 2 BELOW)	WALL-KNUCKLE-ARM-ANGLE	LITHONIA (IBZ 654L)				
F6	2	28	T5	3500 K	277 V	56 W	59 VA	1'X4" FLUORESCENT INDUSTRIAL	PENDANT	HEWILLIAMS (84 SERIES)				
F7	1	26	CFL	3500 K	277 V	26 W	28 VA	6" FLUORESCENT DOWNLIGHT, HORIZONTAL LAMP, LOW IRRID REFL, BLACK BAFFLE	CEILING-RECESSED	CAPRI (CM6 F126 H65B)				
F9	1	32	T8	3500 K	277 V	32 W	34 VA	FLUORESCENT STRIP (COVE IN RESTROOMS)	COVE	LITHONIA (C)				
F10	1	26	CFL	3500 K	277 V	26 W	28 VA	6" FLUORESCENT SHOWER DOWNLIGHT (LENSED, NON-CONDUCTIVE)	CEILING-RECESSED	GOTHAM (LGFLP)				
L1	20	0	LED	4000 K	277 V	26 W	33 VA	EXTERIOR WALL-MOUNTED LED FIXTURE (BUILDING PERIMETER)	WALL-SURFACE	BETA (SEC-EDG-2M-WM)				
L2	60	75	LED	4000 K	277 V	75 W	79 VA	LED SURFACE MOUNT FIXTURE (CARGO STRUCTURE)	SURFACE ANGLE BRACE	KIM LIGHTING (PGL7-LED-60L-4K)				
X1	1	0	LED	3200 K	277 V			EXIT SIGN (INTEGRAL BATTERY) CHLORIDE #E (SYMMETRY II) DUALLITE #LX (LITEFORMS)	WALL, SURFACE, CEILING	LITHONIA (LQM)				



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LIGHT FIXTURE SCHEDULE

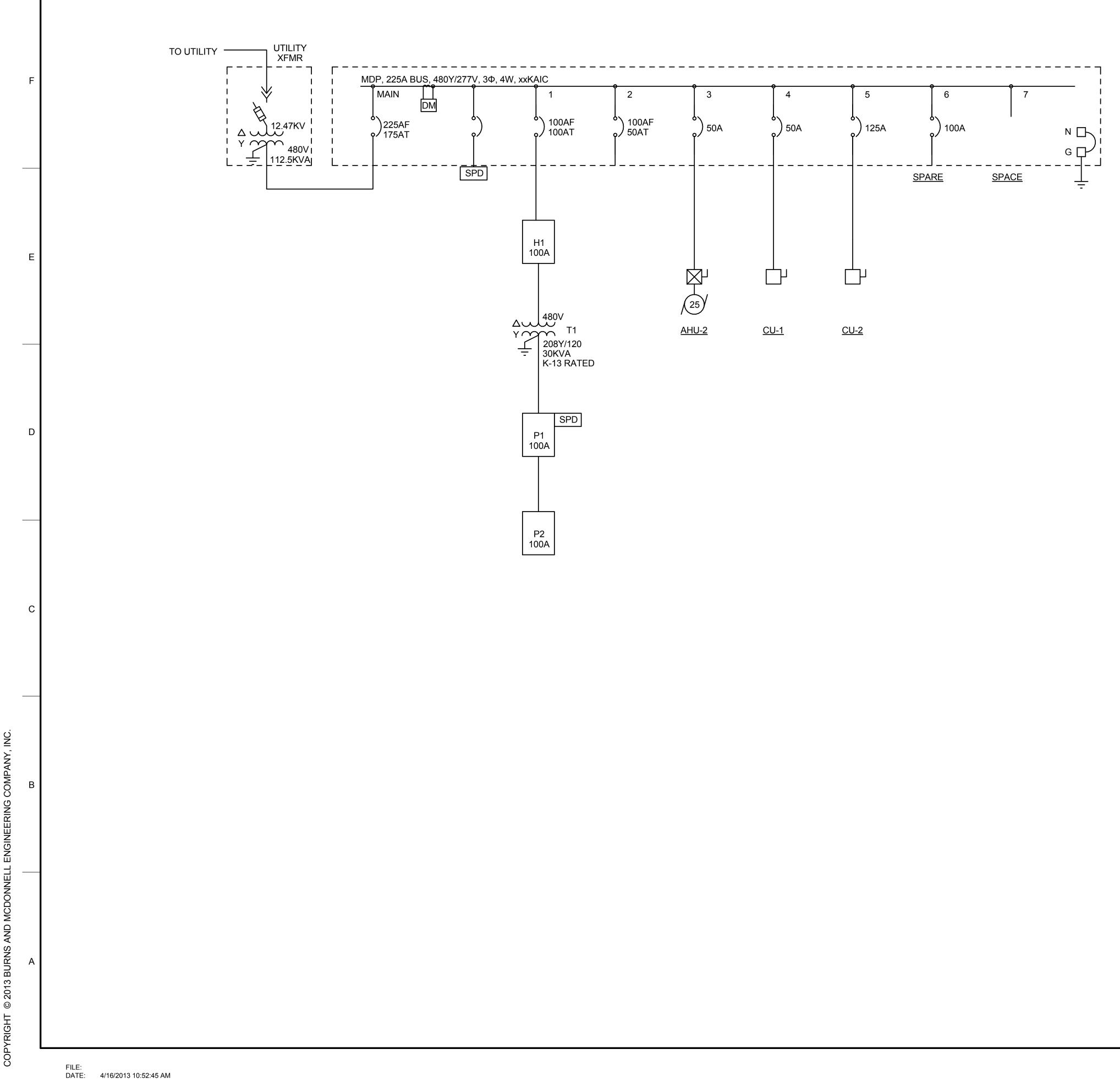
NOTES:

- 1. MANUFACTURER AND MODEL SHOWN ARE THE BASIS OF DESIGN. SUBSTITUTIONS ARE ALLOWED. ALL SUBSTITUTIONS SHALL HAVE THE SAME FEATURES, RATINGS, AND STYLE AS THE MODEL LISTED. ANY DEVIATIONS FROM FIXTURE RATINGS, INCLUDING INPUT VA AND LUMEN OUTPUT, SHALL REQUIRE THE CONTRACTOR TO PERFORM A LIGHTING ANALYSIS TO DETERMINE IF THE INSTALLATION MEETS THE DESIGN INTENT.
- 2. THIS PROJECT IS BEING LEED CERTIFIED. ALL FIXTURES HAVE BEEN SELECTED BASED ON THE CRITERIA REQUIRED TO MEET LEED. DEVIATIONS FROM THE SALIENT FEATURES OF THE BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. THE CALCULATED VA RATINGS FOR THE FIXTURES ARE BASED ON COMMONLY AVAILABLE BALLAST ANSI INPUT WATTS.
- 4. SEE DRAWING E-001 FOR LEGEND AND GENERAL NOTES.
- 5. WHERE DIMMERS ARE SHOWN ON PLAN, PROVIDE A COMPATIBLE DIMMING BALLAST IN EACH LIGHT FIXTURE ASSOCIATED WITH THE DIMMER.
- 6. WHERE EMERGENCY LIGHTS ARE INDICATED ON PLAN, PROVIDE AN EMERGENCY BATTERY BALLAST WHICH ALLOWS THE FIXTURE TO BE NORMALLY SWITCHED. PROVIDE A SECOND PHASE CONDUCTOR TO THE FIXTURE. UPON LOSS OF NORMAL POWER, THE FIXTURE SHALL BE POWERED BY THE EMERGENCY BATTERY BALLAST REGARDLESS OF SWITCH POSITION.
- 7. TYPE F4 FIXTURES SHALL INCLUDE 2-STEP DIMMING BALLASTS AND SHALL BE KNUCKLE-WALL-MOUNT TO ALLOW THE FIXTURE TO BE ANGLED (DIRECTLY DOWN TO 90 DEGREES HORIZONTAL) TO THROW LIGHT TOWARDS THE CENTER OF THE ROOM. WHERE STRUCTURAL STEEL OBSTRUCTS LIGHT FIXTURE DISTRIBUTION, PROVIDE A 1'-0" MOUNTING ARM TO EXTEND FIXTURE BEYOND OBSTRUCTION. FIXTURES SHALL BE MOUNTED AT 20'-0" AFF UON. FIXTURES ARE MOUNTED LOW AROUND PERIMETER TO ALLOW EASY RELAMPING AND REPLACEMENT OF EMERGENCY BATTERY BALLASTS.

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DESIGNED BY:	C. SANBORN	DRAWN BY:	K. I HOMPSON	CHECKED RV.		T. TOD	C. SANBORN	PRO.IFCT FNGINFF	
IIS ARMY ENGINEER DISTRICT	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA DR/				BURNS & MCDONNELL	9400 WARD PARKWAY	INICUONNELL KANSAS CITY, MO 64114	8	
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS									
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E-611

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NO	TES:	

- 1. SEE ELECTRICAL LEGEND AND ABBREVIATIONS ON SHEETS E-001 AND E-002.
- 2. FEEDER SCHEDULE IS NOT INCLUDED IN DEFINITIVE DESIGN. EQUIPMENT AND CONDUCTOR SIZING WILL VARY BASED ON OUTDOOR AMBIENT TEMPERATURE, FINAL HVAC SYSTEM DESIGN LOAD AND FINAL FUSELAGE DESIGN LOAD.

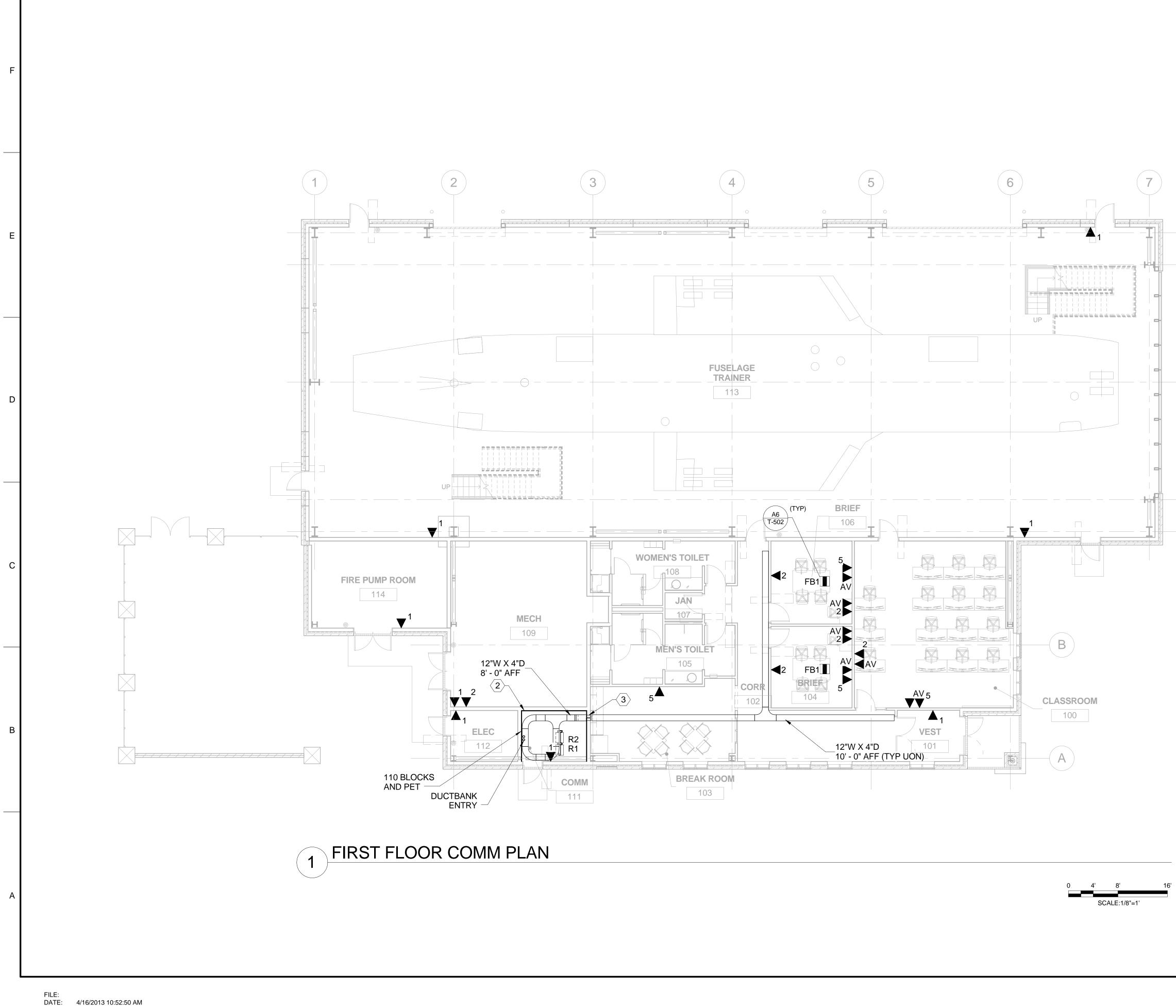
C	JS A DF E 10E	ΞN	GII	N	EE	R	S®				
	DATE APPR.										
REVISIONS	DESCRIPTION										
	SYMBOL										
DATE:	3								EP14E-701	4/17/2013	
DESIGNED BY:	C. SANBORN	DRAWN BY:			CHECKED BV.		T. TOD	C. SANBORN			
	U.S. ARMY ENGINEER DISTRICT DES CORPS OF ENGINEERS MOBILE, ALABAMA DRA					BURNS & MCDONNELL		IVICUONNEIL KANSAS CITY, MO 64114			
KC-46A FUSEI AGE TRAINER	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS							DIAGRAM			
	F		-	N	/1E	E E BE	R				

	PLAN SYMBOLS - COMMUNICATION	ABBREVIATIONS	ABBREVIATIONS - CONTINUED	PROJECT OUTSIDE PLANT GENERAL NOTES - CONTINUED:			
		A AMPERES	SCCR SHORT CIRCUIT CURRENT RATING	11. FIBER AND COPPER SPLICES ARE ONLY ALLOWED WHERE			
	WIRE IN CONDUIT, RUN CONCEALED ABOVE CEILING	AC ALTERNATING CURRENT AFF ABOVE FINISHED FLOOR	SCI SENSITIVE COMPARTMENTALIZED INFORMATION	INDICATED. ADDITIONAL SPLICES ARE NOT ALLOWED WITHOUT WRITTEN DIRECTION FROM COR.	MATRIX OF RESPONSIB		US ARMY C
	OR IN WALL.	AIC AMPERES INTERRUPTING CAPACITY AV AUDIO/VIDEO	ScTP SHIELDED TWISTED PAIR SIPR SECRET INTERNET PROTOCOL ROUTING	12. PROVIDE PULL STRINGS IN ALL NEW AND EXISTING			
	WIRE IN CONDUIT ROUTE BELOW GRADE OR FLOOR	AWG AMERICAN WIRE GAUGE	SM SINGLE MODE	CONDUITS, INCLUDING CONDUITS WHERE MULTICELL			
	SLAB.	BASBUILDING AUTOMATION SYSTEMBOTBOTTOM OF CABLE TRAY	SPECS CONTRACT SPECIFICATIONS SPST SINGLE POLE SINGLE THROW	INNERDUCTS ARE TO BE INSTALLED.			ЪР В.
C	COMMUNICATION DUCTBANK	C CONDUIT CAT CATEGORY	SRG STATIC REFERENCE GRID STR STRAND	13. MULTICELL INNERDUCTS SHALL BE INSTALLED IN CONDUITS WHERE INDICATED AND TERMINATED IN		TO G	Щ. Ц.
—E——	ELECTRICAL DUCTBANK	CATV CABLE TELEVISION	SW SWITCH	MANHOLES/HANDHOLES PER MANUFACTURER INSTRUCTIONS			DAT
-	COMMUNICATIONS OUTLET. NUMBER INDICATES	CBPCOPPER BACKBONE PATCH PANELCCNCONTRACTOR CLASSIFIED NETWORK (FIBER)	SWBD SWITCHBOARD SYM SYMMETRICAL	AND RECOMMENDATIONS.		BLE S	
	OUTLET TYPE. MOUNT 18" AFF UON. SEE T-500 SERIES SHEETS FOR DETAILS.	CCTV CLOSED CIRCUIT TELEVISION CH CHILLED WATER	TB TELEPHONE BACKBOARD TR TELECOMMUNICATIONS ROOM	14. CONTRACTOR SHALL PROVIDE THREE 3" 3-CELL INNERDUCTS		CAE	
<u></u>	CATV OUTLET. SEE T-500 SERIES SHEETS FOR	COMM COMMUNICATIONS COR CONTRACTING OFFICER'S REPRESENTATIVE	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION TYP TYPICAL	IN ALL NEW 4" CONDUITS. IN ADDITION, CONTRACTOR SHALL INSTALL INNERDUCTS IN EXISTING CONDUITS WHERE		ROV	
\vee	DETAILS.	CPP COPPER HORIZONTAL PATCH PANEL	UL UNDERWRITERS' LABORATORIES	INDICATED.			
	WALL MOUNTED COMMUNICATIONS SYSTEM	CRACCOMPUTER ROOM AIR CONDITIONING UNIT CT CABLE TRAY	um MICROMETER UON UNLESS OTHERWISE NOTED		VOICE/DATA		
	FURNITURE FEED, MOUNTED 18" AFF. SEE DETAIL _ ON T-50x. CABLING FOR COMMUNICATION OUTLETS	CU COPPER CUCNCONTRACTOR UNCLASSIFIED NETWORK (COPPER)	UTP UNSHIELDED TWISTED PAIR V VOLTS	PROJECT INTERIOR GENERAL NOTES:	ACTIVE EQUIPMENT (SERVERS, SWITCHES, RACK-MOUNTED UPS'S,		/ISION
DН	SHOWN SHALL BE ROUTED THROUGH FURNITURE FEED. CABLING SHALL BE ROUTED THROUGH	CUN CONTRACTOR UNCLASSIFIED NETWORK (FIBER	R) VA VOLT AMPERES		ETC.)	x	REV
	SYSTEMS FURNITURE CABLE WIRE MANAGEMENT TO	CWCONDENSER WATERDCDIRECT CURRENT	VFD VARIABLE FREQUENCY DRIVE W WIRE OR WATT	1. BACKBONE CABLING SHALL BE INSTALLED IN CONDUITS SHOWN. BACKBONE CABLING SHALL NOT BE INSTALLED USING	PASSIVE EQUIPMENT (RACKS,		
	OUTLET LOCATION ON SYSTEMS FURNITURE.	EC EMPTY CONDUIT EGC EQUIPMENT GROUNDING CONDUCTOR	XFMR TRANSFORMER Z IMPEDANCE	J-HOOKS OR ANY OTHER METHOD.	CABINETS, CABLE MANAGEMENT,		
	CABLE TRAY. TYPE AND MOUNTING HEIGHT (TO	EIA ELECTRONICS INDUSTRIES ASSOCIATIONS EMT ELECTRICAL METALLIC TUBING	PROJECT OUTSIDE PLANT GENERAL NOTES:		PATCH PANELS, PET'S, 110 BLOCKS, WALL PLATES, JACKS, CONNECTORS,		
	BOTTOM OF TRAY) AS INDICATED ON	EPO EMERGENCY POWER OFF		2. COMMUNICATION ROOMS HAVE BEEN LOCATED TO ENSURE THE HORIZONTAL CABLING THROUGHOUT THE FACILITY DOES	RACEWAYS, BOXES, ETC.)	X	
4"W X 12"D BT	COMMUNICATION PLANS. "BT" INDICATES TRAY TYPE.	FAAPFIRE ALARM ANNUNCIATOR PANELFACPFIRE ALARM CONTROL PANEL	1. THIS PROJECT REQUIRES UNDERGROUND WORK INCLUDING A LARGE PORTION OF THE WORK BEING PERFORMED IN EXISTIN	A NOT EXCEED 295 FEET TO MEET EIA/TIA. CONTRACTOR SHALL	INTERIOR CABLING	X X	
11'-0" AFF	BT = BASKET TRAY CR = CABLE RUNWAY	FBO FURNISHED BY OTHERS FMS FULL MOTION SIMULATOR	ROADWAYS AND PAVEMENTS. THE CONTRACTOR SHALL REP	AIR NOT EXCEEDED. CONTACTOR SHALL NOTIFY COR PRIOR TO	CROSS-CONNECTS AND PATCH		
ЪЧ	JUNCTION BOX, WALL MOUNTED 18" AFF, UON.	FO FIBER OPTIC FPD FLAT PANEL DISPLAY	ALL EXISTING ROADWAYS AND PAVEMENTS TO MATCH EXISTI	WHERE THE EXPECTED DISTANCE MAY BE EXCEEDED.			
J		FPP FIBER OPTIC PATCH PANEL	THE UNDERGROUND WORK FOR THIS PROJECT REQUIRES CL 2. COORDINATION WITH EXISTING UTILITIES. THE CONTRACTOR		UNDERGROUND DUCTBANKS	X	
\bigcirc	JUNCTION BOX, MOUNTED ABOVE CEILING, UON.	FSCP FIRE SYSTEM CONTROL PANEL FT FEET OR FOOT	SHALL VERIFY AND COORDINATE ALL NEW WORK WITH ALL	COMMUNICATIONS OUTLETS SHALL BE ROUTED FROM	OSP CABLING	X	
	RECESSED STEEL FLOOR BOX, COMBINATION VOICE/DATA/POWER, 4-COMPARTMENT, HINGED LID	GFGI GOVERNMENT FURNISHED AND INSTALLED G OR GND GROUND	EXISTING UTILITIES, EXISTING EQUIPMENT, AND EXISTING CONDITIONS.	COMMUNICATIONS OUTLET IN MINIMUM 1" CONDUIT FROM EACH COMMUNICATIONS OUTLET TO AREA CABLE TRAY, AND			
└ ■ ┘FB1	(BLACK), FLOORING FLANGE KIT, PROVIDE (2) 1-INCH	GFE GOVERNMENT FURNISHED EQUIPMENT	PRIOR TO DIGGING, THE CONTRACTOR SHALL OBTAIN ALL	IN AREA CABLE TRAY TO DESIGNATED COMMUNICATION ROOM. ROUTE CONDUITS IN FINISHED AREAS CONCEALED IN WALL.	CATV		
	GRS CONDUITS TO BOX (POWER TO SOURCE, COMM TO CABLE TRAY)	GFR GROUND FAULT RELAY GFP GROUND FAULT PROTECTION	3. APPLICABLE DIGGING PERMITS. ALL UNDERGROUND UTILITIES THE WORK AREA MUST BE POSITIVELY IDENTIFIED BY A PRIVA	S IN WHERE COMMUNICATION OUTLETS ARE INSTALLED IN	ACTIVE EQUIPMENT (SATELLITE, CABLE BOX, AMPLIFIERS, ETC.)		- - - -
	FB1 = (4) NEMA 5-20R OUTLETS, (4) DATA FB2 = (4) NEMA 5-20R OUTLETS, (8) DATA, (1)	GRS GALVANIZED RIGID STEEL CONDUIT H HOT CONDUCTOR	UTILITY LOCATING SERVICE IN ADDITION TO APPLICABLE BAS	E MOUNTED. CONDUITS ROUTED EXPOSED SHALL BE PAINTED		X	ATE: 17/20 CALE 2" = 1
	VOICE AND (1) VIDEO COMPARTMENT FB3=RAISED ACCES FLOOR BOX WITH (2) NEMA	HID HIGH INTENSITY DISCHARGE	LOCATING SERVICE AND COORDINATED WITH THE BASE UTILI DEPARTMENT. ALL MARKINGS MADE DURING THE UTILITY	TY TO MATCH ADJACENT SURFACES.	OSP CABLING TO DEMARCATION	<u> </u>	- <u>040</u>
	5-20R OUTLETS	IDS INTRUSION DETECTION SYSTEM	INVESTIGATION MUST BE MAINTAINED THROUGHOUT THE CONTRACT.	DEFINITIVE DESIGN NOTES:		X	
	SYMBOL MODIFIERS	IG ISOLATED GROUND IN INCH OR INCHES	THE CONTRACTOR SHALL PHYSICALLY VERIFY UNDERGROUN		INTERIOR CABLING, CONNECTORS, WALL PLATES, BOXES AND CONDUIT	x	∺ z
AV A	AUDIO/VIDEO	K KILO KCMIL THOUSAND CIRCULAR MILS	4. UTILITY LOCATIONS BY HAND DIGGING AND/OR POT-HOLING	1. THE FOLLOWING ARE DEFINITIVE DESIGN NOTES WHICH INCLUDE DESIGN ASSUMPTIONS AND CONSIDERATIONS			NED I JBORI N BY: MPSC
-	RECESSED IN CEILING EXPLOSION PROOF	KV KILOVOLT AMPERES KWH KILOWATT HOURS	USING WOOD OR FIBERGLASS HANDLED TOOLS WHEN ANY ADJACENT CONSTRUCTION WORK IS EXPECTED TO COME	WHICH ARE AFFECTED BY THE SELECTED SITE LOCATION FOR THE FACILITY.	AUDIO/VIDEO		DESIG S. SAN RAW RAW
F R	RECESSED IN FLOOR GROUND FAULT CIRCUIT INTERRUPTER	LC LIGHTING CONTACTOR	WITHIN 3 FEET OF THE UNDERGROUND SYSTEM. DIGGING WIT 2 FEET OF A KNOWN UTILITY SHALL NOT BE PERFORMED BY	ΓΗΙΝ	ACTIVE EQUIPMENT (SWITCHES,		
IG IS	SOLATED GROUND	LW LOCKABLE WIREWAY MAX MAXIMUM	MEANS OF MECHANICAL EQUIPMENT; HAND DIGGING SHALL B	BASE COMMUNICATIONS STANDARDS AND PREFERENCES	DISPLAYS, SMARTBOARDS,		
	PILOT LIGHT (INDICATING SWITCH IS ON) WALL MOUNTED, 48" AFF UON	MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL	USED. IF CONSTRUCTION IS PARALLEL TO AN EXISTING UTILIT EXPOSE THE UTILITY BY HAND DIGGING EVERY 100 FEET IF	Y WHICH MAY VARY FROM THE DEFINITIVE DESIGN.	PROJECTORS, VTC EQUIPMENT, ETC.)	X	
WP W	NEATHERPROOF NEATHERPROOF IN USE	MH MANHOLE	PARALLEL WITHIN 5 FEET OF THE EXCAVATION.	3. SEISMIC REQUIREMENTS ARE NOT INCLUDED IN THE DEFINITIVE DESIGN. SEISMIC REQUIREMENTS WILL VARY	PASSIVE EQUIPMENT (RACKS,		L ' ENGINEER DIST S OF ENGINEERS BILE, ALABAMA
VVFIO VV	LEGEND NOTES	MLO MAIN LUGS ONLY MM MULTIMODE	5. CONTRACTOR SHALL COORDINATE ACCESS TO MANHOLES, HANDHOLES, AND BUILDINGS WITH COR.	BASED UPON SITE LOCATION. INCLUDE EQUIPMENT BRACING	CABINETS, CABLE MANAGEMENT, RACEWAYS, BOXES, WALL PLATES,		NEER ENGIN
		MN/PA MASS NOTIFICATION/PUBLIC ADDRESS MTD MOUNTED		AND SEISMIC CONSTRUCTION WHERE REQUIRED.	ETC.)	X	ENGI S OF E
	NT IDENTIFIERS, MATCHING THOSE IN NT SCHEDULES, ARE DISPLAYED INSIDE OF	N NEUTRAL CONDUCTOR N.C. NORMALLY CLOSED	6. PRIOR TO INSTALLATION OF NEW CABLES IN EXISTING DUCTBANKS, THE CONTRACTOR SHALL COORDINATE WITH TH	4. ENVIRONMENTAL REQUIREMENTS WILL VARY BASED UPON SITE LOCATION.	CABLING AND CONNECTORS	X	MOE MOE
BRACKETS	,	NEC NATIONAL ELECTRICAL CODE	COR TO DETERMINE WHICH DUCT(S) SHALL BE USED. THE CONTACTOR SHALL FIELD VERIFY (ROD & MANDREL) EACH		NOTES		U.S. ⊢
	DRIENTATION DOES NOT IMPLY DEVICE OR	NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	PATHWAY INDENTIFIED TO ENSURE IT IS ADEQUATE FOR CAB INSTALLATION. CONTRACTOR SHALL NOTIFY COR IF AN EXIST	RESPONSIBILITIES WHICH INDICATES CONTRACTOR AND	1. NOT ALL SYSTEM COMPONENTS ARE L CONTRACTOR SHALL FURNISH AND INST		
	NT ORIENTATION. UNLESS NOTED AS SUCH. ECTED CEILING PLANS FOR LIGHT FIXTURE	NIC NOT IN CONTRACT NIPR NON-CLASSIFIED INTERNET PROTOCOL	DUCT IDENTIFIED TO BE USED IS NOT ADEQUATE FOR NEW	GOVERNMENT RESPONSIBILITIES WITH RESPECT TO EACH SYSTEM. THESE RESPONSIBILITIES WILL VARY BASED UPON	COMPONENTS AS INDICATED ON DRAWIN	NGS AND IN	
POSITIONS	S AND ORIENTATIONS.	ROUTING	CABLE INSTALLATION.	SITE LOCATION AND BASE STANDARDS. COORDINATE WITH THE BASE FOR ALL RESPONSIBILITIES TO ENSURE THE	SPECIFICATIONS. ONLY SYSTEM COMPO COMMONLY REQUIRE CLARIFICATION AR		
SYMBOL SI	SIZE DOES NOT IMPLY EQUIPMENT SIZE, UON.	N.O.NORMALLY OPENNTSNOT TO SCALE	7. IN MANHOLES/HANDHOLES WHERE FIBER OR COPPER CABLE ARE TO BE SPLICED. PROVIDE MINIMUM 25' OF SLACK ON EITH	S PROJECT IS ESTIMATED AND BID CORRECTLY			
	G HEIGHT INDICATED IN LEGEND AND ON THE	OC ON CENTER PDS PROTECTIVE DISTRIBUTION SYSTEM	SIDE OF SPLICE CLOSURE FOR EACH FIBER AND COPPER	6. SPECIFICATIONS INCLUDED WITH THE DEFINITIVE DESIGN ARE	ABBREVIATIONS		
	S SHALL BE THE DISTANCE MEASURED E CENTER OF THE DEVICE TO THE FINISHED	PDU POWER DISTRIBUTION UNIT PIV POST INDICATOR VALVE	CABLE. WHERE NEW FIBER OR COPPER CABLES ARE TO BE SPLICED WITH EXISTING FIBER OR COPPER CABLES, LEAVE	PARTIALLY EDITED BASED ON DEFINITIVE DESIGN ASSUMPTIONS. SPECIFICATIONS MUST BE ADDED AND EDITED			
FLOOR.		PR PAIR	MINIMUM 25' OF EXISTING FIBER AND COPPER CABLES.	AS REQUIRED TO INCORPORATE FINAL DESIGN BASED UPON	CATV CABLE TELEVISION CFCI CONTRACTOR-FURNISHED,		RAIN IGN S
	SYMBOLS INDICATED ON THIS SHEET ARE	PVCPOLYVINYL CHLORIDEQAQUALITY ASSURANCE	8. IN MANHOLES/HANDHOLES WHERE CABLES ARE TO BE ROUTE	ED SITE LOCATION.	CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED		
	HIS PROJECT.	RAD REFRIGERATED AIR DRYER RGS RIGID GALVANIZED STEEL CONDUIT	THROUGH BUT NOT SPLICED, PROVIDE A MINIMUM OF 50' OF SLACK FOR EACH FIBER AND COPPER CABLE.		GC GENERAL CONTRACTOR		SELA TIVE
REFER TO DRAWINGS	TYPICAL DETAILS ON T-500 SERIES S.	RM ROOM	9. FIBER AND COPPER CABLES SHALL BE INSTALLED IN NEW ANI	D	GFGI GOVERNMENT-FURNISHED,		A FU EFINI BASE
2.0.000000		RMCRIGID METAL CONDUITRMSROOT MEAN SQUARE	EXISTING MANHOLES/HANDHOLES USING CABLE RACKS AND RACK HOOKS.		GOVERNMENT-INSTALLED		DI
			10. FIBER AND COPPER SPLICE CLOSURES SHALL BE SECURELY		OSP OUTSIDE PLANT		
			FASTENED TO MANHOLE/HANDHOLE CABLE RACKS AND RACK HOOKS USING ADJUSTABLE STAINLESS STEEL STRAPS.		PET PROTECTED ENTRANCE TER	MINALS	_
							REFE
					T FOR CONSTRUCTION		

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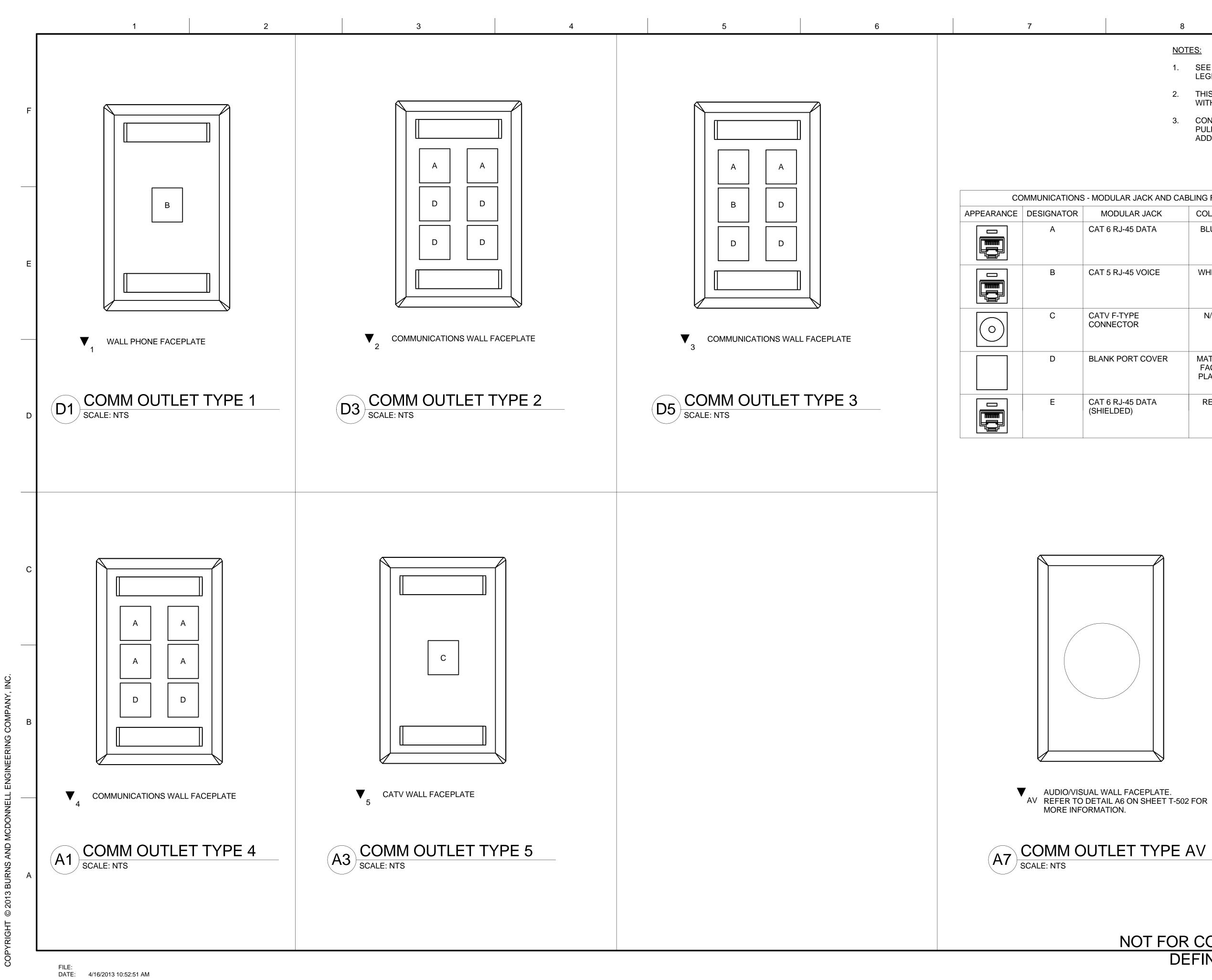
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	NO	TES:							
	1.	SEE SHEET T- ABBREVIATIO MATRIX OF RE	NS, PROJECT	GENERAL N	•	OF	ENGIN	CORPS EERS ®)
	2.	SEE T-500 SEI TELECOMMUN							\square
	3.	SEE SHEET T- SCHEDULE AM		COMMUNIC	ATIONS	DATE APPR			
	4.	PROVIDE FLO ACCORDING 1 ARCHITECTUR	O PENETRAT	ION DETAILS					
	5.	ALL HORIZON INCH MINIMUN CABLE TRAY I ROOM.	I EMT CONDU	IIT FROM OU	ITLET TO				
	<u>KEYE</u>	ED NOTES:				REVISIONS			
G		PROVIDE 2" EM AV WALLPLATE IN ROOM.				REVI			
F	2	COVER THREE FIXED, 3/4-INCH BACKBOARD. E VOID-FREE, FIR RETARDANT PA EXTEND FROM	A-C PLYWOO ACKBOARD S E-RATED (NO INT) AND SHA	D HALL BE FIRE- LL					
	3	4-4" DIAMETER	SLEEVES			SYMBOL			
E									
						DATE: 4/17/2013	SCALE: As indicated	DRAWING CODE: EP14T-101	4/17/2013 CT DATE
						DATE: 4/17/20	SCALE: As indic	DRA EP1	RN ENGINEER/ARCHITECT
D						DESIGNED BY: C. SANBORN	DRAWN BY: R.THOMPSON	CHECKED BY: T. TOD	C. SANBORN PROJECT ENGIN
								BURNS & McDONNELL 9400 WARD PARKWAY	
						U.S. ARMY ENGINEER DISTRICT	MOBILE, ALABAMA		_
						n.s		Burns &	INICLONINE SINCE 1898
						AINER	2	TELECOMMUNICATIONS PLAN	R
						KC-46A FUSELAGE TRAINER	BASE X, CONUS	IUNICATI	FIRST FLOOR
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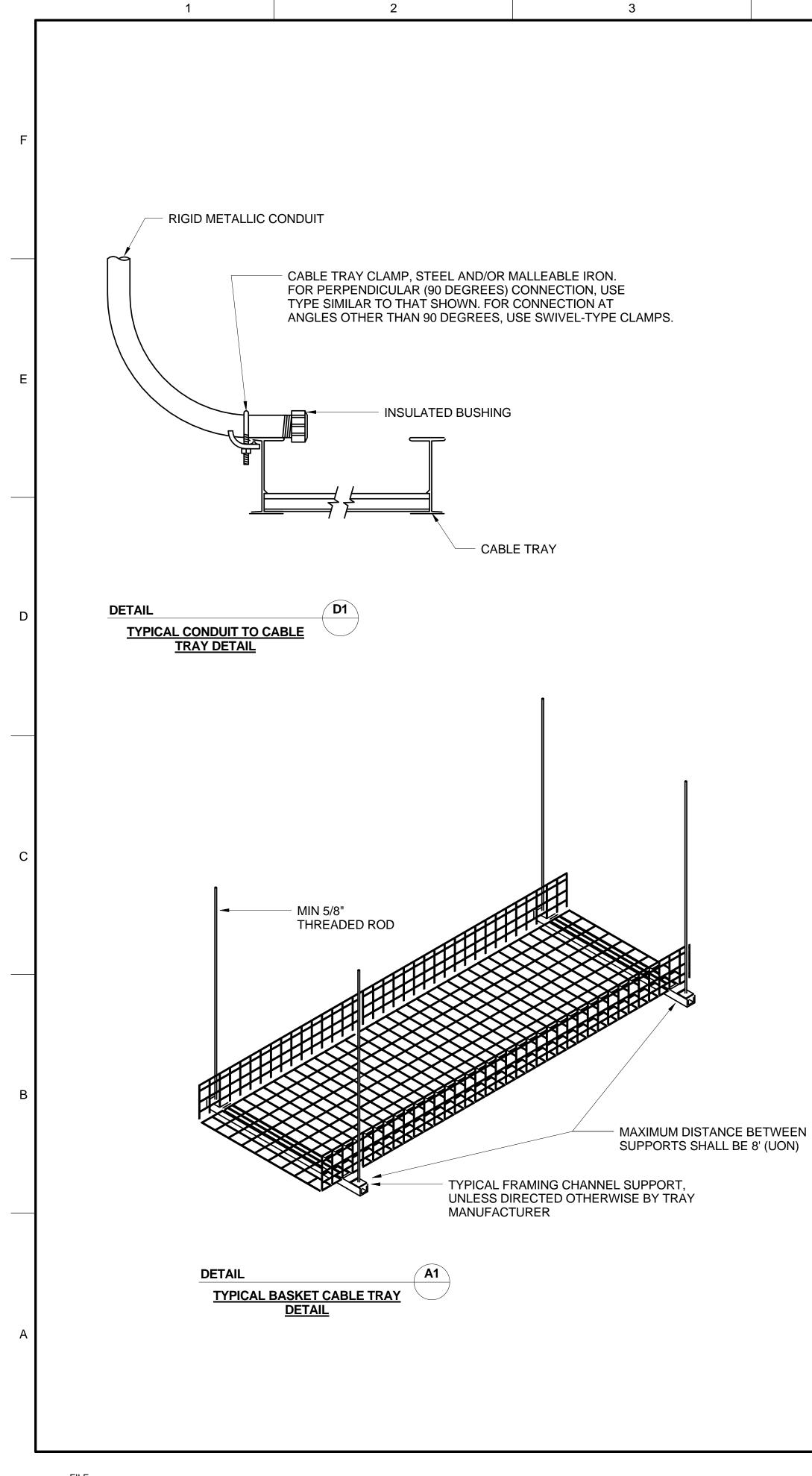


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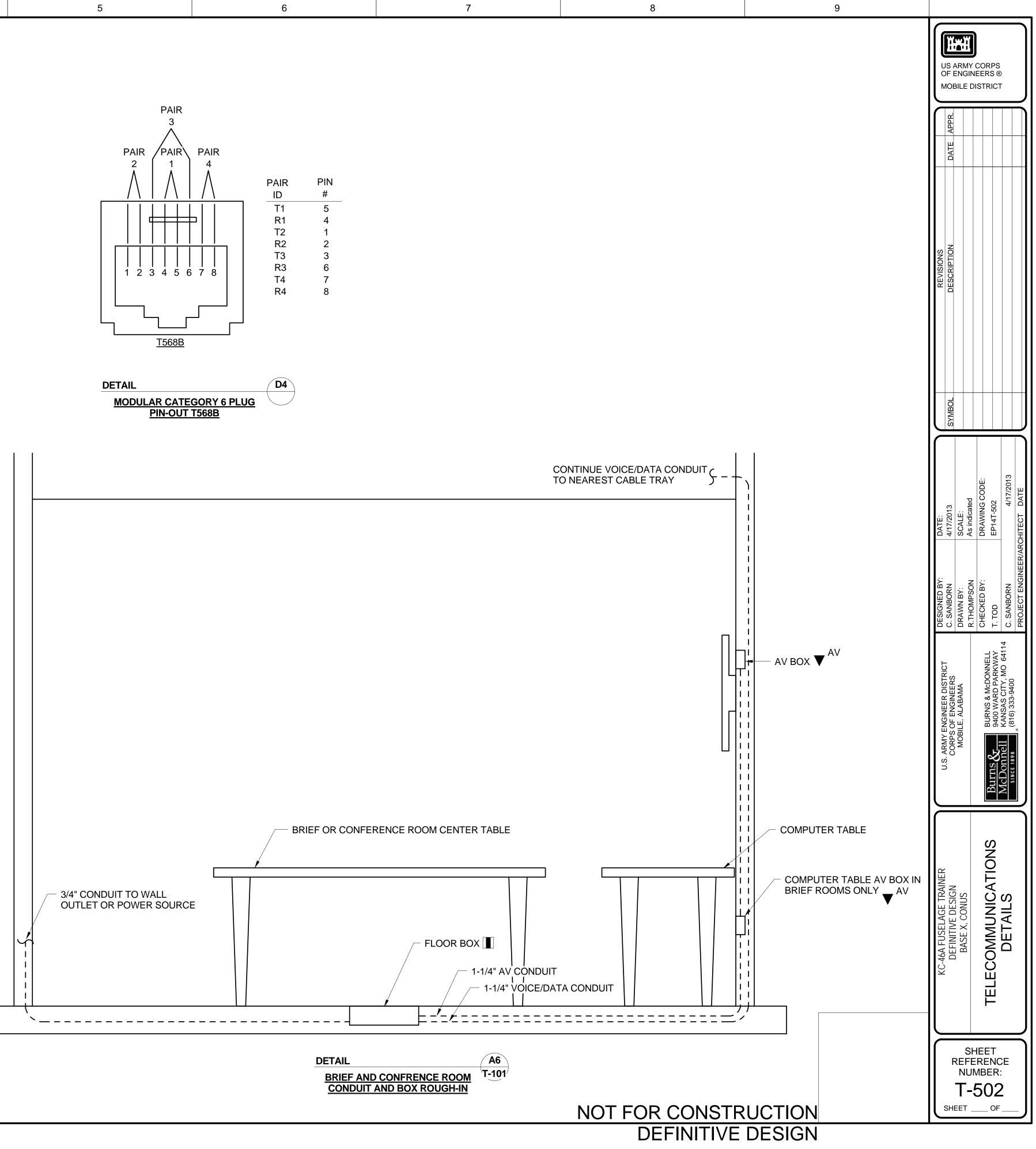
- 1. SEE DRAWING T-001 FOR COMMUNICATIONS LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL INSTALL ALL CONDUITS WITH PULL STRINGS TO FACILITATE FUTRE CABLE ADDITIONS.

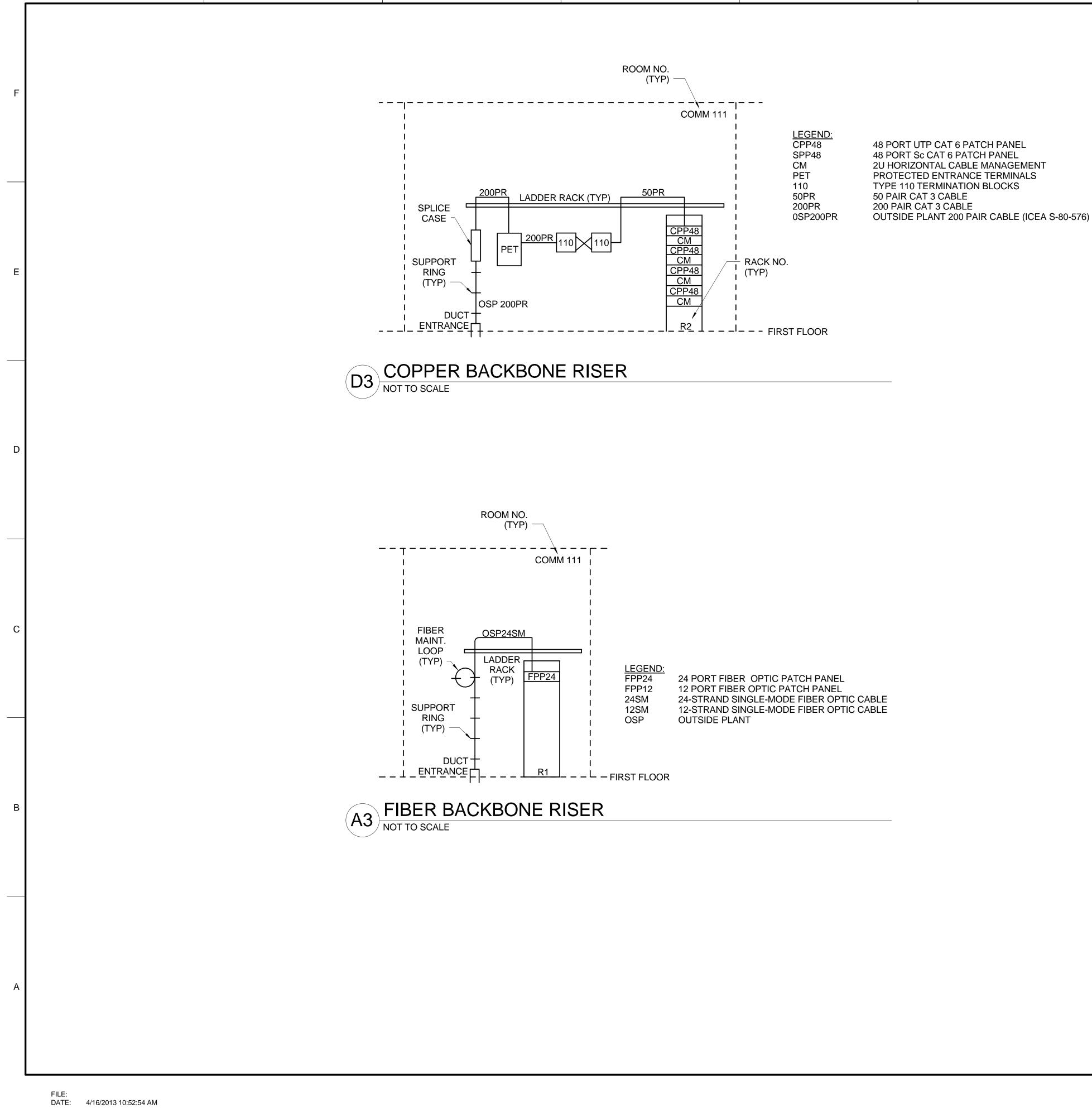
LING FACE	PLATE INFORMATION SCHEDU	JLE
COLOR	CABLING	COLOR
BLUE	4-PAIR CATEGORY 6 UTP	BLUE
WHITE	4-PAIR CATEGORY 5 UTP	WHITE
N/A	RG-6 COAX CABLING	BLACK
MATCH FACE PLATE	N/A	N/A
RED	4-PAIR CATEGORY 6 (FOIL SHIELDED-TWISTED PAIR)	RED
	COLOR BLUE WHITE N/A MATCH FACE PLATE	BLUE4-PAIR CATEGORY 6 UTPWHITE4-PAIR CATEGORY 5 UTPWHITE4-PAIR CATEGORY 5 UTPN/ARG-6 COAX CABLINGMATCH FACE PLATEN/ARED4-PAIR CATEGORY 6 (FOIL SHIELDED-TWISTED

C	US ARMY CORPS OF ENGINEERS ® MOBILE DISTRICT									
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	DATE A									
REVISIONS	DESCRIPTION									
	SYMBOL									
DATE:	4/17/2013	SCALE:	12" = 1'-0"	,	DRAWING CODE.		EP141-501	4/17/2013		
DESIGNED BY:	C. SANBORN	DRAWN BY:					T. TOD	C. SANBORN		
	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA					RULANS & MCDONNELL	9400 WARD PARKWAY	MCUONNEIL KANSAS CITY, MO 64114		
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS								DETAILS		
SHEET REFERENCE NUMBER: T-501 Sheet OF										



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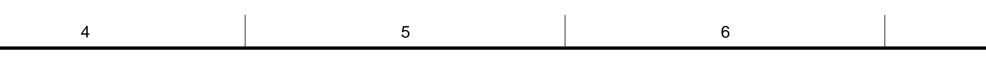


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COMM ROO	M 111 OUTLE	ET SCHEDUL	.E
		OUTLET	
ROOM NAME	ROOM NO.	TYPE	COUNT
CLASSROOM	100	2	1
VEST	101	1	1
BRIEF	104	2	2
BRIEF	104	FB1	1
BRIEF	106	2	2
BRIEF	106	FB1	1
MECH	109	1	1
MECH	109	2	1
COMM	111	1	1
ELEC	112	1	1
FUSELAGE TRAINER	113	1	3
FIRE PUMP ROOM	114	1	1

CABLE TV OUTLET SCHEDULE								
ROOM NAME	ROOM NO.	OUTLET TYPE	COUNT					
CLASSROOM	100	5	1					
BREAK ROOM	103	5	1					
BRIEF	104	5	1					
BRIEF	106	5	1					

NOTE: PROVIDE RG-6 COAXIAL CABLE IN 1-INCH EMT CONDUIT FROM EACH OUTLET BACK TO COMM 107 AND TERMINATE AT CABLE TV SERVICE PROVIDER DEMARCATION POINT.

	US ARMY CORPS OF ENGINEERS ®								
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APPR.									
DATE									
REVISIONS DESCRIPTION									
SYMBOL									
DATE: 4/17/2013	SCALE: 12" = 1'-0"		DRAWING CODE: EP14T-701		EP141-701	4/17/2013			
DESIGNED BY: C. SANBORN			CHECKED RV.		T. TOD	C. SANBORN	PRO IECT ENGINEER/ARCHITECT DATE		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE, ALABAMA BUTTS BURNS & MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 (816) 333-9400 (816) 333-9400								
KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN	KC-46A FUSELAGE TRAINER DEFINITIVE DESIGN BASE X, CONUS TELECOMMUNICATIONS SCHEDULE/RISER								
SHEET REFERENCE NUMBER: T-701 Sheet of									