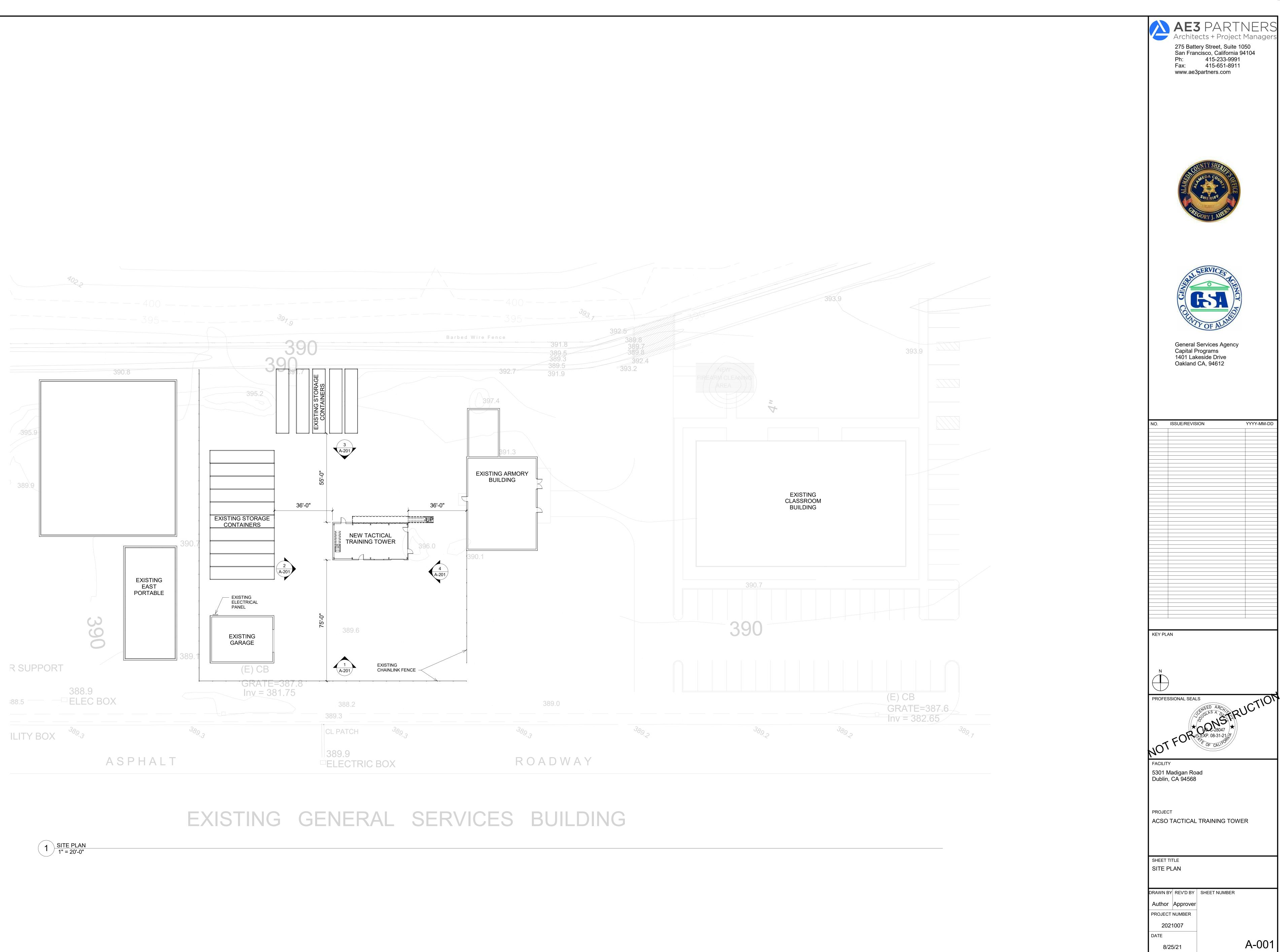
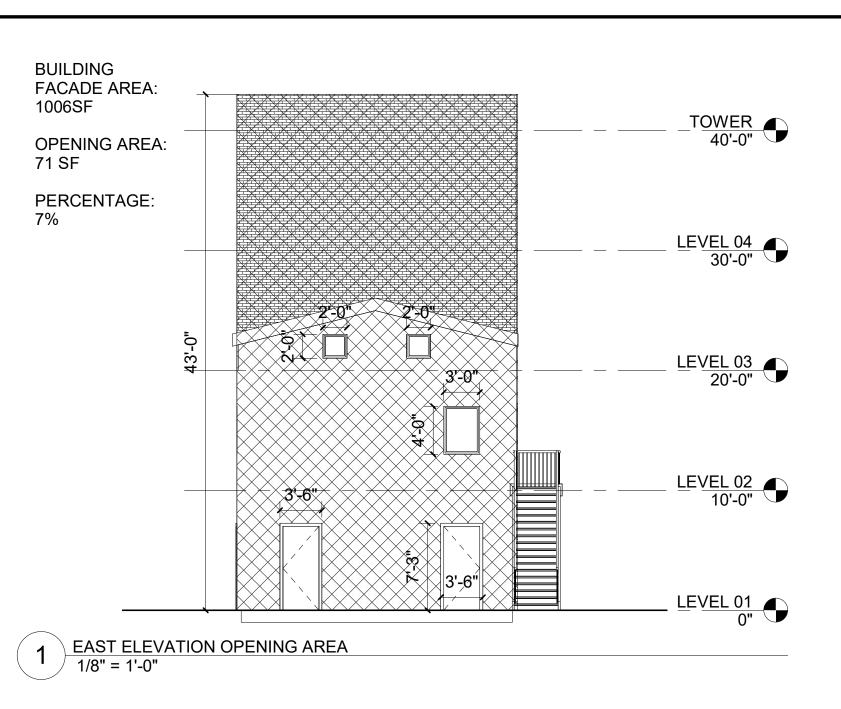
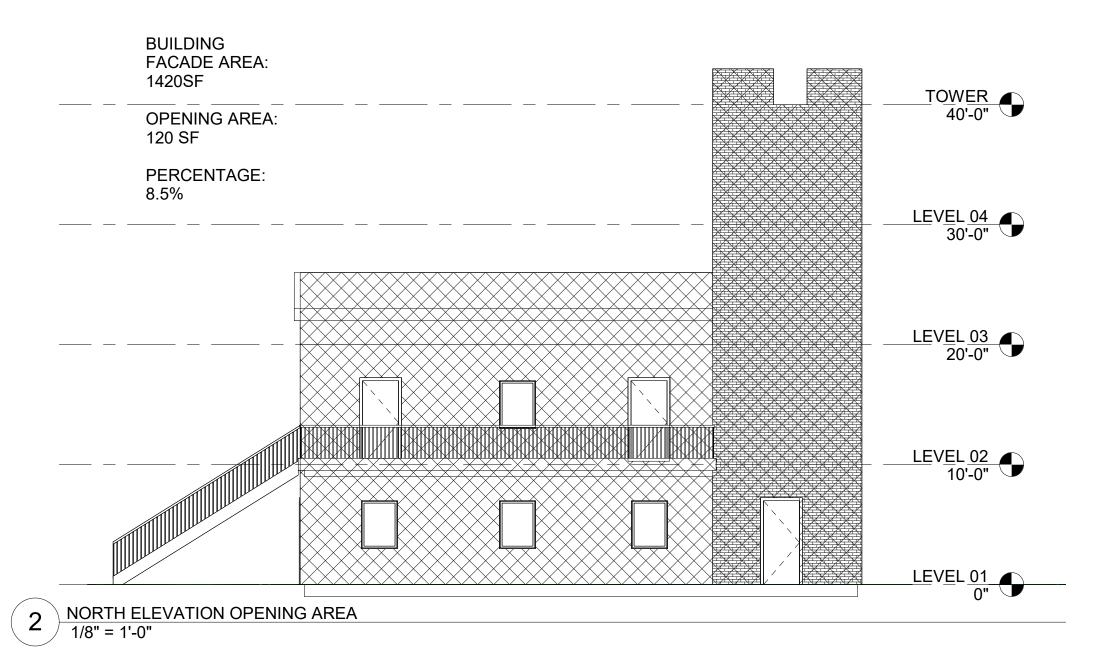
ABBREVIATIONS		SHEET INDEX	AE3 PARTNE
AND ANGLE ANGLE GALV GALVANIZED S&P SHELF AND CLOTHES POLE GB GRAB BAR SAD SEE ARCHITECTURAL DRAWINGS CENTERLINE GEN GENERAL CENTERLINE DEGREES (45 DEGREES) GFRC GLASS FIBER REINFORCED CONCRETE SCD DIAMETER OR ROUND GFRG GLASS FIBER REINFORCED FOUND OR NUMBER GYPSUM) PLASTER SCP SECURITY COMMUNICATION SYSTEM	BID SET - AUGUST 27, 2021	G-000 COVER G-002 GENERAL NOTES & SYMBOLS A-001 SITE PLAN A-201 SITE ELEVATIONS  00 TITLE PAGE 01 FLOOR PLANS 02 FLOOR PLANS CONT	Architects + Project Man  275 Battery Street, Suite 1050 San Francisco, California 94104 Ph: 415-233-9991 Fax: 415-651-8911 www.ae3partners.com
PROPERTY LINE  GFI GROUND FAULT INTERRUPTED  C LESS THAN  GI GALVANIZED IRON  GREATER THAN  GI GALVANIZED IRON  GROUND  SEC  SECTION  SOAP DISH OR DISPENSER  SED  SECTION  SOAP DISH OR DISPENSER  SECTION  SOAP DISH OR D	ACSO TRAINING TOWER	03 ELEVATIONS 04 ELEVATIONS CONT 05 ANCHOR BOLT PLAN 06 STRUCTURAL FRAMING PLAN 07 STRUCTURAL ELEVATIONS 08 STRUCTURAL ELEVATIONS CONT 09 STRUCTURAL SECTIONS 10 STRUCTURAL SECTIONS CONT	
ADA AMERICANS WITH DISABILITIES ACT H HIGH SHR SHOWER  ADJ ADJUSTABLE HB HOSE BIB SHT SHEET  AFF ABOVE FINISH FLOOR HC HOLLOW CORE SHTG SHEATHING  AGGR AGGREGATE HCP HANDICAPPED SIM SIMILAR  ALUM ALUMINUM HD HEAD SLAD SEE LANDSCAPE DRAWINGS  APPROX APPROXIMATE HDWD HARDWOOD SLTD SEE LIGHTING DRAWINGS  ARCH ARCHITECTURAL HDWE HARDWARE SMD SEE MECHANICAL DRAWINGS  ASPH ASPHALTIC HM HOLLOW METAL SMW SHEET METAL WATERPROOFING  AUTO AUTOMATIC HO HOPPER (WINDOW) SND SANITARY NAPKIN DISPENSER  AVG AVERAGE HORZ HORIZONTAL SNR SANITARY NAPKIN RECEPTACLE	5301 MADIGAN ROAD DUBLIN, CA 94568	12 JOIST PLAN CONT 13 STUD WALL ELEVATIONS AND DETAILS 14 STUD WALL ELEVATIONS AND DETAILS 15 PARAPET DETAILS WITHOUT NOVABRIK 16 NOVABRIK PARAPET DETAILS 17 NOVABRIK DETAILS 18 MISC DETAILS 19 MISC DETAILS 20 STAIR DETAILS 21 MOVABLE PARTITION SYSTEM DETAILS	SHERIFF SHERIFF
AV ACOUSTICAL VENT HP HIGH POINT SOG SLAB ON GRADE HR HOUR SP STANDPIPE BD BOARD HT HEIGHT SPEC SPECIFICATION BITUM BITUMINUOS HVAC HEATING VENTING & AIR CONDITIONING SPD SEE PLUMBING DRAWINGS BLDG BUILDING HWH HOT WATER HEATER SPO STANDPIPE OUTLET BLK BLOCK BLKG BLOCKING ID INSIDE DIAMETER SQ SQUARE BM BEAM INCAN INCANDESCENT SS STAINLESS STEEL BO BOTTOM OF INSUL INSULATION SSD SEE STRUCTURAL DRAWINGS BSMT BASEMENT INT INTERIOR STD STANDARD B/T BETWEEN		22 RAPPELING RAIL SYSTEM DETAILS 23 SMOKE DISTRIBUTION DETAILS S-001 TITLE PAGE S-101 GENERAL NOTES S-201 FOUNDATION PLAN S-301 FOUNDATION DETAILS E-100 ELECTRICAL FLOOR PLANS E-200 ELECTRICAL SITE PLAN	CREGORY J. AMERICA
B/T BETWEEN BUR BUILT-UP ROOF JAN JANITOR STN STAINLESS BUWP BUILT-UP WATERPROOFING JCT JUNCTION STOR STORAGE  CAB CABINET JOIST STRL STRUCTURAL  CB CATCH BASIN SV SHEET VINYL  CC CENTER TO CENTER OKIT KITCHEN SYM SYMMETRICAL  CEM CEMENT KHB KEYED HOSE BIB  CC CERAMIC  CC CORNER GUARD LAM LAMINATE T&B TOP AND BOTTOM  CI CAST IRON LAND LANDING T&G TONGUE AND GROOVE			GENTLES ALAMED
CIP CAST IN PLACE  CJ CONTROL JOINT  LCC LEAD COATED COPPER  TC TRASH COMPACTOR  TOUS TOWEL BAR  TO TRASH COMPACTOR  TO TRASH			General Services Agency Capital Programs 1401 Lakeside Drive Oakland CA, 94612
CO CLEAN OUT MAT MATERIAL THK THICK COL COLUMN MAX MAXIMUM THRSD THRESHOLD COMB COMBUSTION MB MACHINE BOLT TO TOP OF COMP COMPOSITION MBL MARBLE TOW TOP OF WALL CMU CONCRETE MASONRY UNIT MBX MAILBOX TPH TOILET PAPER HOLDER CONC CONCRETE MC MEDICINE CABINET TRASH TRASH RECEPTACLE CONN CONNECTION MD MEDIUM DENSITY TS TUBE STEEL CONSTR CONSTRUCTION MECH MECHANICAL TYP TYPICAL CONT CONTINUOUS MED MEDIUM CORR CORRIDOR MEMB MEMBRANE UL UNDERWRITERS LABORATORIES, INC. CPT CARPET METALOR METALOR METALLIC UNF UNFINISHED			NO. ISSUE/REVISION YY
CS CASEMENT (WINDOW) MFR MANUFACTURER UON UNLESS OTHERWISE NOTED CT CERAMIC TILE MH MANHOLE CTR CENTER MIN MINIMUM MIN	VICINITY MAP	PROJECT DIRECTORY	
DBL DOUBLE MW MICROWAVE WH WATER HEATER DEPT DEPARTMENT DF DRINKING FOUNTAIN (N) NEW WP WATERPROOF DFPT DOUGLAS FIR PRESSURE TREATED N NORTH WPM WATERPROOFING MEMBRANE DH DOUBLE HUNG (WINDOW) NA NOT APPLICABLE WR WATER RESISTANT DIA DIAMETER NIC NOT IN CONTRACT WS WEATHERSTRIPPING DIF DIFFUSER NO NUMBER WSCT WAINSCOT DIM DIMENSION NOM NOMINAL WSP WET STANDPIPE DIMP DIMENSION POINT NR NON RATED WT WEIGHT DISP DISPOSAL NTS NOT TO SCALE	SITE	CLIENT DSA 1401 LAKESIDE DRIVE OAKLAND CA, 94612 CONTACT: DAVID BARBA E:DAVID.BARBA@ACGOV.ORG	
DN DOWN DO DOOR OPENING DBS OBSURE (GLASS) DO DOOR OPENING DC ON CENTER DC OC ON CENTER DC DOWNSPOUT DC OD OUTSIDE DIAMETER DC OFD OVERFLOW DRAIN DET DETAIL DC OPER OPERABLE DW DISHWASHER DW DRAWING DC OPP OPPOSITE	Alameda County Fire Department Fire	ARCHITECTURE AE3 PARTNERS 315 MONTGOMERY ST., SUITE 1000 SAN FRANCISCO, CA 94111 CONTACT: DOUGLAS DAVIS T: 415.651.4592 E: DOUGD@AE3PARTNERS.COM	
PC PIECE OR PRECAST (E) EXISTING PERP PERPENDICULAR E EAST PKT POCKET (DOOR) EA EACH PL PLATE EFOS EXTERIOR FACE OF STUD PLAM PLASTIC LAMINATE EJ EXPANSION JOINT PLAS PLASTER	CityHealth CoVID-19 Testing - Dublin  Regional Training Center  Hall of Justice	STRUCTURAL KPFF 45 FREMONT ST., 28 <sup>th</sup> FLOOR SAN FRANCISCO, CA 94105 CONTACT: BRIAN BIEHL E: BRIAN.BIEHL@KPFF.COM	KEY PLAN
EL ELEVATION PLYWD PLYWOOD ELEC ELECTRICAL PNL PANEL ELEV ELEVATOR POL POLISH(ED) EMER EMERGENCY POLY POLYETHYLENE ENCL ENCLOSURE POS PER OWNER'S SELECTION EO EDGE OF PR PAIR EP ELECTRICAL PANEL PREFAB PREFABRICATED EQT EQUIPMENT PT POINT EWC ELECTRICAL WATER COOLER PTCL PARTICLE EXH EXHAUST PTDIS PAPER TOWEL DISPENSER EXP EXPANSION PTD PAINTED EXPO EXPOSED PTREC PAPER TOWEL RECEPTACLE	Gleason Dr	ELECTRICAL RANDALL LAMB ASSOCIATES, INC 500 WASHINGTON ST, SUITE 200 SAN FRANCISCO, CA 94111 CONTACT: AARON STRAUCH E: ASTRAUCH@RANDALLLAMB.COM	PROFESSIONAL SEALS  CENSED ARCHIVE  CHOCAS A. O. C.
PVC POLY VINYL CHLORIDE F FIXED POSITION (WINDOW) FA FIRE ALARM QT QUARRY TILE FAU FORCED AIR UNIT QTY QUANTITY	BUILDING INFORMATION  SCOPE OF WORK  LOCATION: 5301 MADIGAN ROAD DUBLIN, CA 94568  CONSTRUCTION TYPE: II-B NON-RATED  SCOPE OF WORK  ERECTING A TACTICAL TRAINING SYSTEM 4000 SERIES PER MANUFACTURER'S SHOP DRAWINGS	APPLICABLE CODES  ALL WORK SHALL FULLY COMPLY BUT NOT BE LIMITED TO:  A. 2019 CALIFORNIA BUILDING CODE (CBC) B. 2019 CALIFORNIA ELECTRICAL CODE (CEC)	FACILITY 5301 Madigan Road
FD FLOOR DRAIN QUAL QUALITY FDN FOUNDATION FE FIRE EXTINGUISHER (R) RELOCATED FEC FIRE EXTINGUISHER CABINET R RISER OR RADIUS FF FINISH FLOOR RAD RADIUS	NUMBER OF STORIES: FOUR  OCCUPANCY: U  All of the training towers, that are supplied by FFI, have been designated as a nonbuilding structure because of the unusual nature and use of this type of structure. The National Fire Protection Association (NFPA) has published a guide specifically for the design and construction of both tactical and fire training	C. 2019 CALIFORNIA MECHANICAL CODE (CMC) D. 2019 CALIFORNIA PLUMBING CODE (CPC) E. 2019 CALIFORNIA ENERGY CODE (CENC) F. 2019 CALIFORNIA FIRE CODE G. 2019 GREEN BUILDING STANDARDS CODE H. 2019 GREEN BUILDING STANDARDS CODE (CALGREEN) I. NFPA 13 SPRINKLER SYSTEM (NFPA 13-2019 EDITION)	Dublin, CA 94568  PROJECT  ACSO TACTICAL TRAINING TOWER
FHC FIRE HOSE CABINET RD ROOF DRAIN FHMS FLAT HEAD MACHINE SCREW REBAR REINFORCING BAR FIN FINISH REF REFERENCE FIXT FIXTURE REFL REFLECTED OR REFLECTIVE	FER TABLE 506.2 FOR A CONSTRUCTION TYPE V AND OCCUPANCY U  OCLASSIFICATION ALLOWARIE BUILDING AREA IS 5500 SE  facilities. NFPA 1402 (2019) section A.1.2.2 reads "Fire training structures are no occupied buildings. Building code requirements for many occupied building items, such as fire protection, HVAC, finishes, and accessibility per the ADA, do	J. NFPA 72 NATIONAL FIRE ALARM CODE (NFPA 72-2019 EDITION) K. 2019 TITLE 24 FROM THE CALIFORNIA CODES OF REGULATIONS (CCR)	AGGO TAGTIGAL TIVAINING TOWLK
FHC FIRE HOSE CABINET RD ROOF DRAIN FHMS FLAT HEAD MACHINE SCREW REBAR REINFORCING BAR FIN FINISH REF REFERENCE		IZ COMO TITLE DA EDOM THE CALLEODAHA CODEC OF DECLILATIONIC (COD)	SHEET TITLE COVER  DRAWN BY REV'D BY SHEET NUMBER

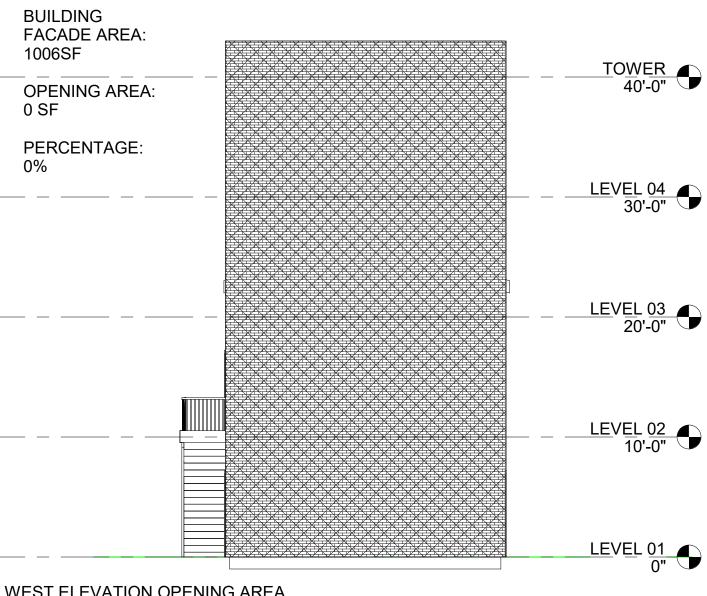


AE3 PARTNERS
Architects + Project Managers

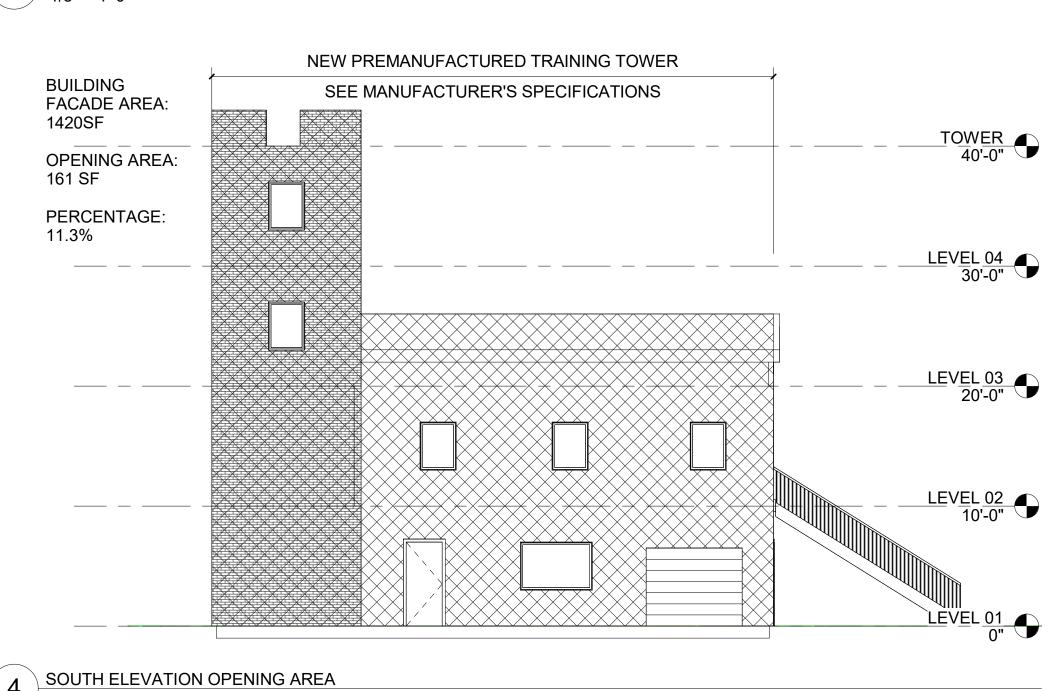
IO.	ISSUE/REVISION	YYYY-MM-DD
KEY P	LAN	
N		
$\stackrel{\circ}{\mathbf{T}}$		
	$\overline{}$	
DROE	ESSIONAL SEALS	FRUCTION
FROF		, CT10'
	CENSED ARCH	RUU
	<b>*</b> 0 <b>6</b> -28047	
	FOR CALIFO	
١Ó	OF CALIFO	
FACIL		
5301	Madigan Road	
וומטט	n, CA 94568	







3 WEST ELEVATION OPENING AREA 1/8" = 1'-0"



# GENERAL NOTES

A. THE CONTRACT DOCUMENTS INCLUDE THESE DRAWINGS, SPECIFICATIONS AND/OR PROJECT MANUAL, AND ANY OTHER DOCUMENTS PER AGREEMENT BETWEEN THE OWNER THE CONTRACTOR FOR CONSTRUCTION. THE CONTRACT DOCUMENTS CONTAIN INFORMATION THAT DESCRIBES THE DESIGN INTENT FOR THE SCOPE OF WORK. SUCH INFORMATION SHALL NOT BE CONSTRUED TO BE COMPREHENSIVE, EXHAUSTIVE, OR DESCRIBE ALL LABOR, MATERIALS AND ITEMS NECESSARY TO COMPLETE THE SCOPE OF WORK. INTERNAL REFERENCING WITHIN THE CONTRACT DOCUMENTS IS FOR CONVENIENCE ONLY AND IS NOT INTENDED TO LIMIT THE APPLICATION OF ANY DRAWINGS OR DETAIL. DETAILS NOT SHOWN ARE SIMILAR TO THOSE DETAILED ELSEWHERE.

B. THE DRAWINGS ARE ORGANIZED INTO DISCIPLINES AND SECTIONS FOR CONVENIENCE; HOWEVER THIS IS NOT INTENDED TO CONTROL THE DIVISION OF WORK OR THE CONTRACTOR'S ORGANIZATION OF TRADES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEWING THE WHOLE OF THE CONTRACT DOCUMENTS (DRAWINGS, SPECIFICATION AND OTHER DELIVERABLES) AND ENSURING THAT ALL TRADES ARE FULLY COORDINATED. ALL WORK SHALL CONFORM WITH ALL GOVERNING CODES AND ORDINANCES.

C. THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR MEANS AND METHODS IN COMPLETING THE WORK, CONDITION OF THE JOBSITE, THE SAFETY OF ALL PERSONS / PROPERTY LOCATED WITHIN THE JOB SITE AND SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM HAZARDOUS MATERIALS AND OTHER OCCUPATIONAL HAZARDS. SHOULD THE CONTRACTOR IDENTIFY OR DISCOVER ANY SUCH MATERIALS OR HAZARDS DURING ITS COURSE OF WORK, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.

D. THE CONTRACTOR, DURING ITS ENTIRE DURATION ON THE JOBSITE, IS RESPONSIBLE FOR PROTECTING ALL (N) WORK, MATERIAL, EQUIPMENT AND ALL PROPERTY FROM DIRT AND DAMAGE DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL (N) BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO HVAC, FIRE, SPRINKLER, TELEPHONE AND DATA SYSTEMS FROM DAMAGE, DUST AND DEBRIS DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO SURFACES AND EXISTING BUILDING SYSTEMS / COMPONENTS DUE TO CONSTRUCTION ACTIVITY TO THEIR ORIGINAL CONDITION.

E. THE CONTRACTOR SHALL ERECT SUITABLE BARRIERS TO SEPARATE THE JOBS SITE / WORK AREA FROM NON-WORK AREAS AND PROVIDE APPROPRIATE TRAFFIC AND PEDESTRIAN CONTROLS TO ROUTE PERSONS AND TRAFFIC AROUND THE SITE. EXCEPT AS OTHERWISE PERMITTED BY THE OWNER IN WRITING, THE CONTRACTOR SHALL KEEP THE GENERAL PUBLIC AND ALL NON-CONSTRUCTION PERSONNEL FROM THE WORK AREA. THE CONTRACTOR SHALL ENSURE THAT THE APPROPRIATE CODE REQUIRED EGRESS PATHS AND SIGNAGE ARE MAINTAINED FROM AND AROUND THE WORK AREA DURING THE DURATION OF CONSTRUCTION.

F. PRIOR TO COMMENCING WORK, THE CONTRACTOR, IN CONFERENCE WITH THE OWNER AND FACILITIES MANAGEMENT, SHALL PREPARE A LIST OF ITS ACTIVITIES THAT WILL IN ANYWAY EFFECT THE NORMAL OPERATIONS OF THE BUILDING, SITE AND ADJACENT PROPERTIES. PROTECTIVE MEASURES AND SCHEDULING SHALL BE ESTABLISHED TO MINIMIZE DISRUPTION AND PROTECT PROPERTY NOT RELATED TO THIS PROJECT. PROVIDE THE OWNER AND ARCHITECT WITH A COPY OF THE SCHEDULE AND DESCRIPTION OF PROTECTION FOR OWNER APPROVAL.

G. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT THE WORK IS BUILDABLE PRIOR TO PROCEEDING WITH ANY CONSTRUCTION. IF THE CONTRACTOR HAS ANY QUESTION OR ISSUES, THEY SHALL BE SUBMITTED IN WRITING AS A REQUEST FOR INFORMATION (RFI) TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK FOR QUESTION.

H. THE ARCHITECT AND OWNER SHALL NOT CONSIDER CHANGE ORDERS OR ADDITIONAL CHARGES FOR THE CONTRACTORS FAILURE TO PROPERLY VERIFY FIELD DIMENSION AND EXISTING CONDITIONS PRIOR TO START OF WORK.

I. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN.

J. THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY DISCREPANCIES FOUND BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS SO THAT A CLARIFICATION CAN BE ISSUED. ALL MATERIALS, FIXTURES AND EQUIPMENT CALLED OUT IN THE DRAWING ARE NEW UNLESS OTHERWISE NOTED (UON) AS EXISTING. ALL WALL DIMENSIONS ARE FACE-OF-FINISH TO FACE-OF-FINISH UNLESS OTHERWISE NOTED.

J. THE CONTRACTOR SHALL ALWAYS PROVIDE FIRE STOP IN ALL WALLS, FURRED SPACES AND CEILING, ETC. AS REQUIRED BY CODE AND SHALL PROVIDE APPROPRIATE SMOKE/FIRE DAMPERS AT DUCTWORK THAT CROSSES THROUGH RATED ASSEMBLIES. ALL CLEAR DIMENSIONS ARE REQUIRED TO BE EXACT WITH 1/8" TOLERANCE ALONG FULL HEIGHT AND FULL WIDTH OF WALLS.

K. THE CONTRACTOR SHALL SAFE OFF ANY FIRE ALARM OR SPRINKLER SYSTEM DURING THE COURSE OF WORK. SPRINKLER HEADS SHALL BE PROTECTED DURING CONSTRUCTION.

L. CONTRACTOR SHALL HAVE ON HAND AT ALL TIMES DURING CONSTRUCTION A MEANS OF CONTAINING AN ACCIDENTAL DISCHARGE. FIRE ALARM COMPONENT SHALL BE PROTECTED AND OR REMOVED AS NEEDED TO PROTECT THEM IN THE COURSE OF CONSTRUCTION.

M. CONTRACTOR SHALL PROVIDE ALL STIFFENERS, BRACING, BLOCKING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, FIXTURE, PARTITIONS AND ALL MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT NOTED IN THE DRAWINGS. CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER THE PHYSICAL DIMENSIONS AND MOUNTING REQUIREMENT OF EQUIPMENT AND FIXTURES.

N. IF THE SPACE, MOUNTING OR OTHER INSTALLATION PROVISIONS PROVIDED IN CONTRACT DOCUMENTS IS INADEQUATE THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO THE START OF WORK.

O. ALL DOORS SHALL USE LEVER HARDWARE. ALL REQUIRED EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE TO OPERATE AND SHALL BE OPERABLE WITH A SINGLE EFFORT. ALL FIRE RATED EXIT DOORS SHALL BE FITTED WITH A CLOSER. THE MAXIMUM EFFORT TO OPEN DOORS SHALL NOT EXCEED 15 POUNDS FOR FIRE RATED EXIT DOORS AND 5 LBS FOR ALL OTHER DOORS.

P. UNLESS OTHERWISE NOTED, FINISHES INDICATED SHALL BE APPLIED TO THE ENTIRE EXTENT OF THE WALL, FLOOR, CEILING OR OTHER SURFACE SHOWN. PAINT FINISH SHALL BE LEVEL 5 UON.

Q. THE DRAWINGS ARE NOT SUITABLE FOR USE AS BASIS OF CALCULATING AREA FOR A LEASE, PURCHASE AGREEMENT OR OTHER REAL ESTATE PURPOSES. IT IS STRONGLY RECOMMENDED THAT PARTIES REQUIRING THIS INFORMATION RETAIN THE SEPARATE SERVICES OF A SURVEYOR OR APPROPRIATE PROFESSIONAL TO OBTAIN THIS INFORMATION.

# SYMBOLS

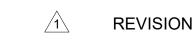
WORK/DATUM/CONTROL POINT

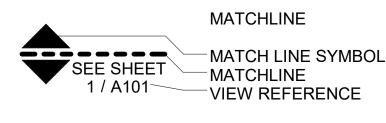
O

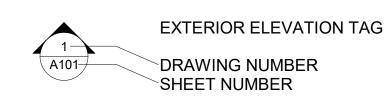
COLUMN GRID TAG / GRID LINE

+

0







BUILDING / WALL SECTION TAG

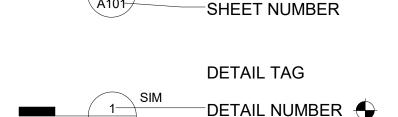
-DRAWING NUMBER

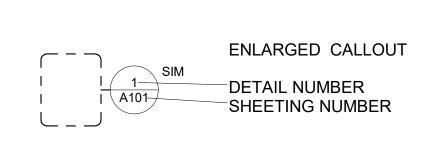
SHEET NUMBER

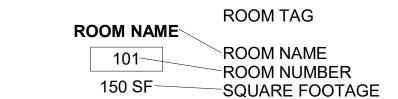
INTERIOR ELEVATION TAG

ELEVATION NUMBER

SHEET NUMBER







	ROOM OCCUPANCY TAG
ROOM NAME	ROOM NAME
OLF 150 SF OCCUEXITS	OCCUPANT LOAD FACTOR SQUARE FOOTAGE EXITS OCCUPANTS

101	DOOR TAG	

WINDOW / LOUVER TAG

<u>S1</u>	STOREFRONT TAG

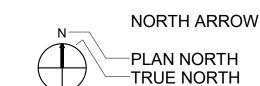
1EWA4.1 PARTITION TYPE TAG

(+/-11' - 0") CEILING HEIGHT TAG

SHEET NOTE TAG

CENTERLINE MARK

ALIGNMENT SYMBOL



SLOPE ARROW



**AE3** PARTNERS

Architects + Project Managers

275 Battery Street, Suite 1050

www.ae3partners.com

San Francisco, California 94104

415-233-9991

415-651-8911



General Services Agency Capital Programs 1401 Lakeside Drive Oakland CA, 94612

NO.	ISSUE/REVISION	YYYY-MM-DD
KEY PL	AN	
N		
PROFE	SSIONAL SEALS	10.
THOTE	SED ARCHI	OCTION
		50
	**************************************	
_	**************************************	
10 <sup>1</sup>	**************************************	
NOT	* CVQ-28047 *	
NOT FACILIT	* OF CALIFORNIA	
FACILIT 5301	Y Madigan Road	
FACILIT 5301	* OF CALIFORNIA  Y	
FACILIT 5301	Y Madigan Road	
FACILIT 5301	Y Madigan Road	

ACSO TACTICAL TRAINING TOWER

GENERAL NOTES & SYMBOLS

DRAWN BY REV'D BY SHEET NUMBER

G-002

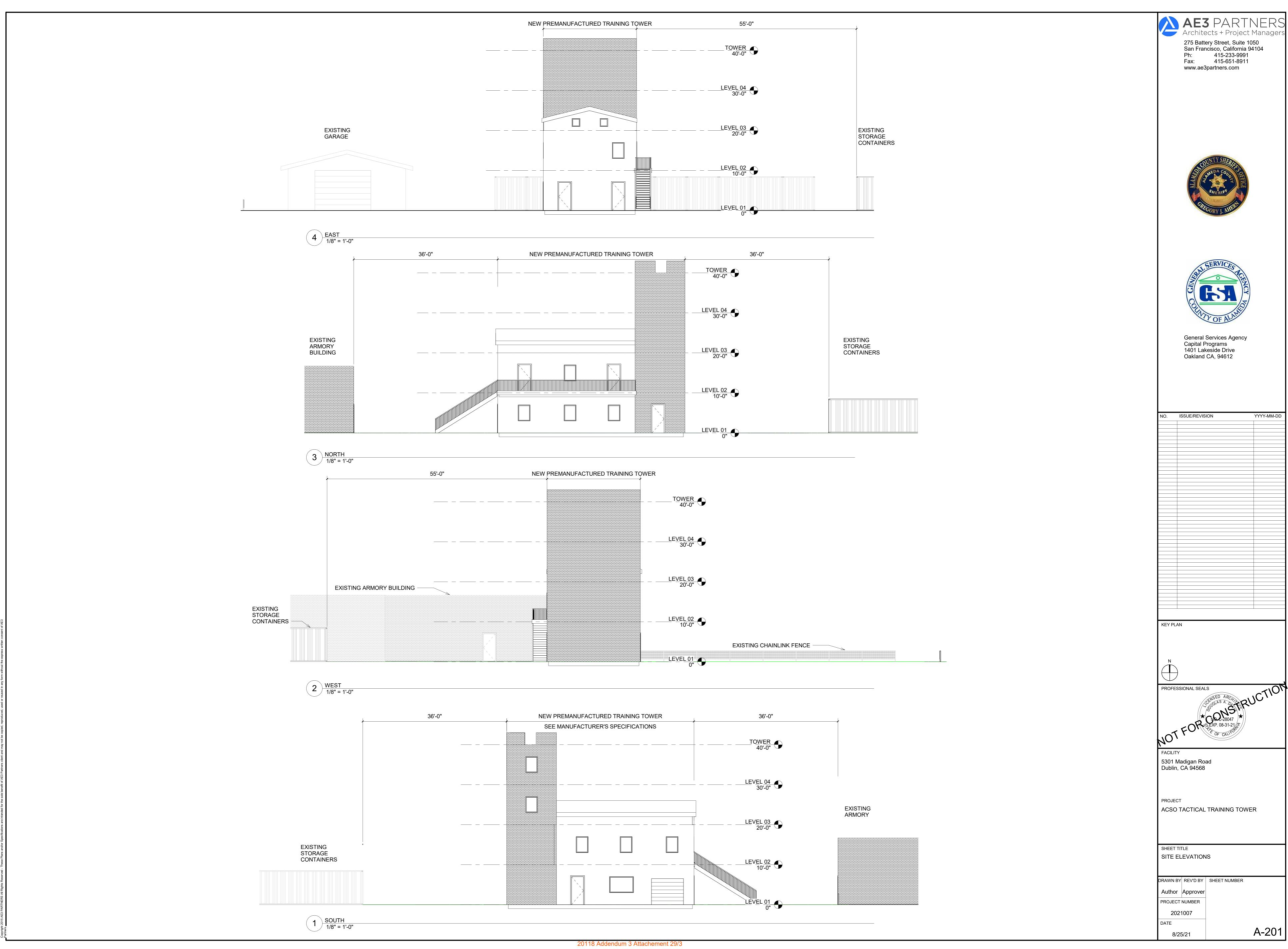
SHEET TITLE

Author Approver

PROJECT NUMBER

2021007

8/25/21



AE3 PARTNERS
Architects + Project Managers

).	ISSUE/REVISION	YYYY-MM-DD
EY Pl	_AN	
N	_	
+	)	
$\Box$	/	
ROFE	ESSIONAL SEALS	FRUCTION
	CENSED ARCHIT	ERUC.
		\ <b>\</b>
	EXP. 08-31-21	<b>X</b>
_	FOR UP EXP. 08-31-21,	
Q	FOR OF CALIFOR	
ACILI	I Y	
ACILI 301	Madigan Road n, CA 94568	

# **DRAWING INDEX**

**GENERAL DATA** 

Stories: 4

Allowable Area: N/A

Fire Sprinkler: N/A

Occupancy Group: Unoccupied fire training

simulator/nonbuilding structure Construction Type: Type II—B Area: 3300 sq. ft. Height: 40 ft

PAGE 01 - FLOOR PLANS PAGE 02 - FLOOR PLANS CONT. PAGE 03 - ELEVATIONS

PAGE 04 - ELEVATIONS CONT. PAGE 05 - ANCHOR BOLT PLAN

PAGE 06 - STRUCTURAL FRAMING PLAN PAGE 07 - STRUCTURAL ELEVATIONS

PAGE 08 - STRUCTURAL ELEVATIONS CONT.

PAGE 09 - STRUCTURAL SECTIONS

PAGE 10 - STRUCTURAL SECTIONS CONT. PAGE 11 - JOIST PLAN

PAGE 12 - JOIST PLAN CONT.

PAGE 13 - STUD WALL ELEVATIONS AND DETAILS

**COLORS SELECTED: BUILDING COLOR:** SLATE GRAY

**NOVABRIK COLOR**: DESERT SAND

WINDOW AND DOOR TRIM COLOR: ROYAL BLUE

**EXTERIOR DOOR OTHER THAN BURN DOORS: BRONZE** 

NOTE: Burn room doors and all shutters are Galvanized Steel

PAGE 14 - STUD WALL ELEVATIONS AND DETAILS CONT.

PAGE 15 - PARAPET DETAILS WITHOUT NOVABRIK PAGE 16 - NOVABRIK PARAPET DETAILS

PAGE 17 - NOVABRIK DETAILS

PAGE 18 - MISC. DETAILS

PAGE 19 - MISC. DETAILS CONT.

PAGE 20 - STAIR DETAILS

PAGE 21 - MOVABLE PARTITION SYSTEM DETAILS

PAGE 22 - RAPPELLING RAIL SYSTEM DETAILS

PAGE 23 - SMOKE DISTRIBUTION SYSTEM DETAILS

# DESIGN LOADS:

ROOF LIVE LOAD: 100 PSF

SEISMIC DESIGN CAT: D

DESIGN CODE: CBC 2019 AND NFPA 1402

NFPA 1402 is the Standard on Facilities for Fire Training and Associated Props. Chapters 1.2.2 and A.1.2.2 state the following 'Fire training structures are not occupied buildings. Building code requirements for many occupied building items, such as fire protection, HVAC, finishes, and accessibility per the ADA, do not apply to fire training

FLOOR LIVE LOAD: 100 PSF WIND LOAD: 92 MPH; RISK CAT II; EXP C

SITE CLASS: D

structures."

SERIES 4 CUSTOM DUBLIN, CA

AUGUST 13, 2021

Drawn by: Checked by: SPW Scale: SHOWN TTS-108/#238355

00 of 23

Sheet No.

**MATERIAL SPECIFICATIONS:** 

**W SHAPES**: ASTM A992 (Fy = 50 ksi). HSS: ASTM A500 (GRADE B).

PLATES: ASTM A36 OR ASTM A572 (GRADE 50).

**ANGLES**: ASTM A36. C SHAPES: ASTM A36.

**BOLTS**: ASTM A325N.

LIGHT GAUGE STEEL: ASTM A653 OR ASTM A924.

WELDS Field Welding Not Required; Shop Electrodes E71T-1

SPECIAL INSPECTIONS

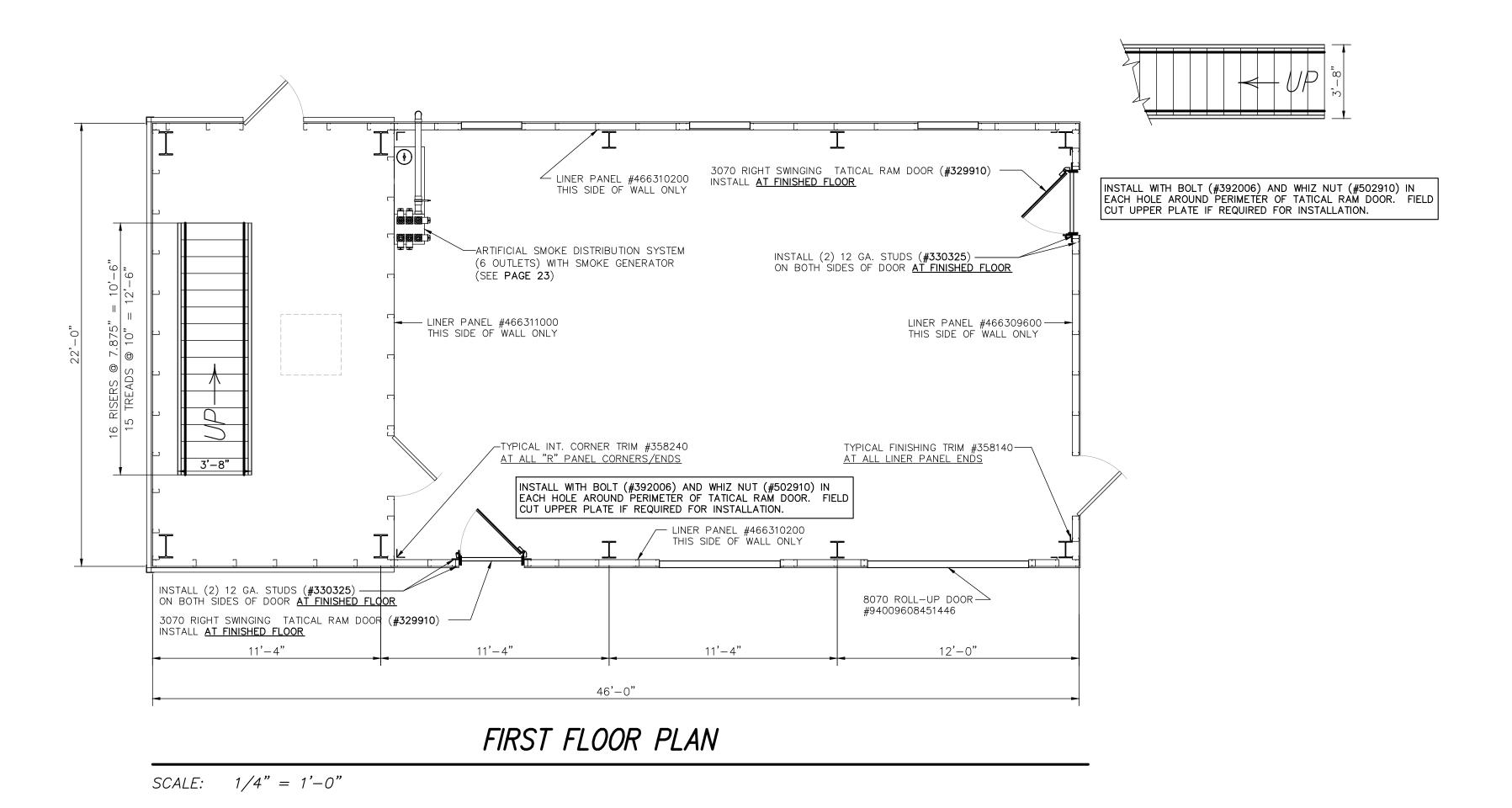
(cont. reports required for submittal to city inspector):

1. HIGH STRENGTH BOLTS

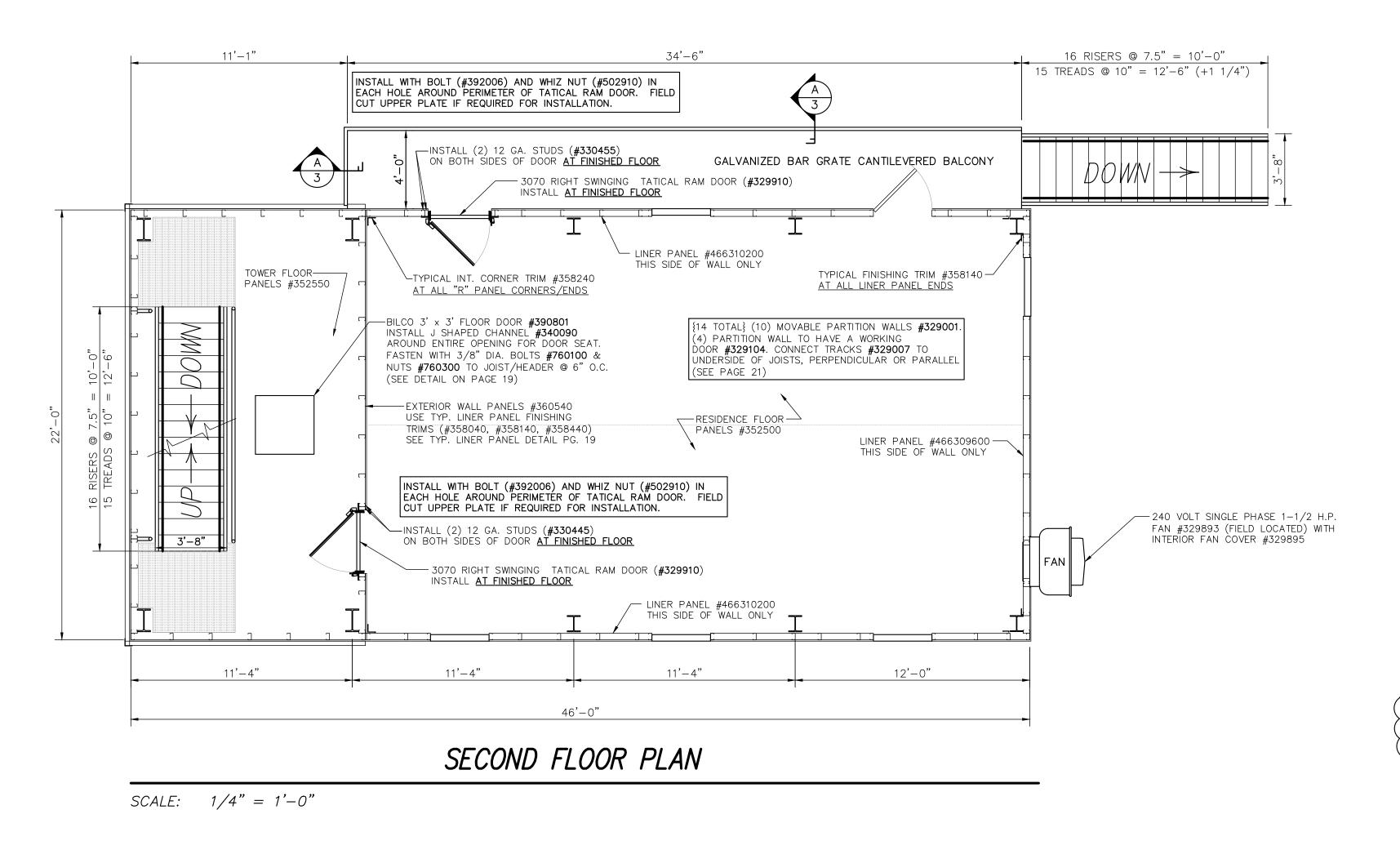
2. REINF. CONC W/ F'c > 2.5ksi

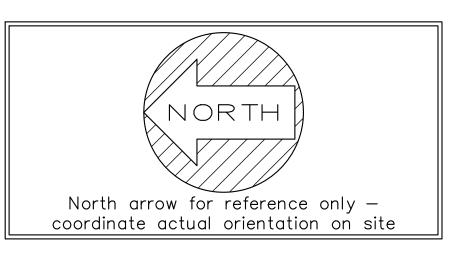
3. WELDING — NO FIELD WELDING REQUIRED

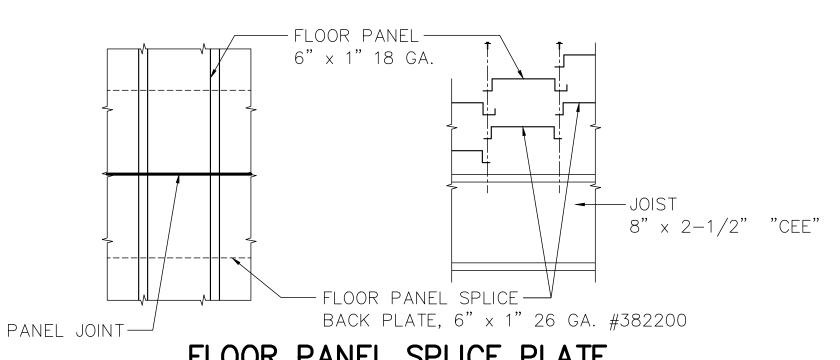
INSPECTIONS FOR REINF. CONCRETE SHALL TAKE PLACE PRIOR/DURING FOUNDATION CONSTRUCTION AND INSPECTIONS FOR HIGH STRENGTH BOLTS DURING SUPERSTRUCTURE PLACEMENT.



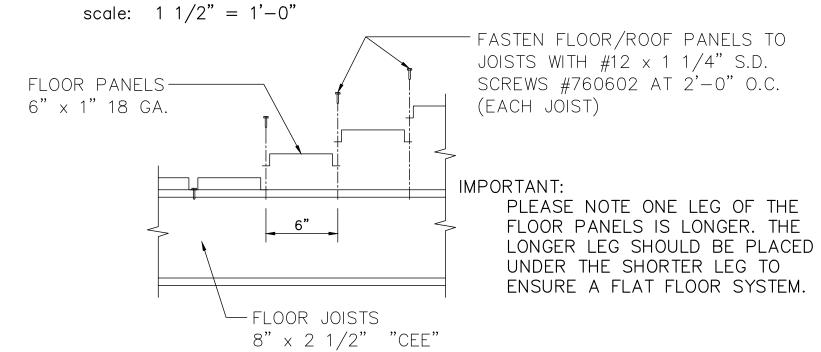
# NOTE: ALL SHUTTERS IN TOWER SWING IN, UNLESS OTHERWISE SHOWN ALL SHUTTERS IN ATTIC SWING OUT, UNLESS OTHERWISE SHOWN







# FLOOR PANEL SPLICE PLATE



# TYPICAL FLOOR PANEL FASTENING DETAIL

scale:  $1 \frac{1}{2} = 1'-0"$ 

scale:  $1 \frac{1}{2} = 1' - 0''$ 

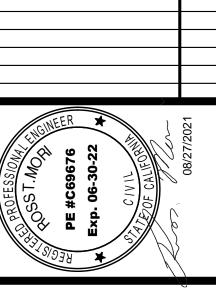
FASTEN TRIM TO STUDS WITH -- FASTEN TRIM TO PANELS  $\#12 \times 3/4$ " S.D. SCREWS WITH #12  $\times$  3/4" S.D. #760600 AT EACH STUD SCREWS #760600 AT 6" O.C. -FLOOR EDGE TRIM #380001 -FLOOR PANELS 🗧 6" x 1" 18 GA. WALL STUDS -4" x 2" 20 GA. "CEE" -FLOOR JOISTS  $8" \times 2-1/2"$  16 GA. "CEE"

# TYPICAL FLOOR EDGE TRIM DETAIL

- FASTEN TRIM TO PANELS FLOOR OPENING TOE -WITH  $\#8 \times 1/2$ " FLATHEAD ANGLE #399000 SCREWS #508672 AT 6" O.C. (INSTALL WITH HEMMED LEG UP) @ HANDRAIL LOCATIONS ONLY FASTEN ANGLE TO JOISTS WITH — I #12 x 3/4" S.D. SCREWS #760600 AT 2'-0" O.C. ---FLOOR PANELS IMPORTANT: - APROXIMATE FOLD LINE, 45 6" x 1" 18 GA. AT THE TOP AND BOTTOM OF STAIRS, - LEVEL OF THE OUTSIDE CORNERS OF TOE ANGLES SHALL BE FOLDED AT A 45° ANGLE TO FLOOR PANEL TO FLOOR PANEL -FLOOR JOISTS PREVENT SHARP EDGE SITUATION. 8" x 2 1/2" 16 GA. "CEE"

TYPICAL FLOOR OPENING TRIM DETAIL

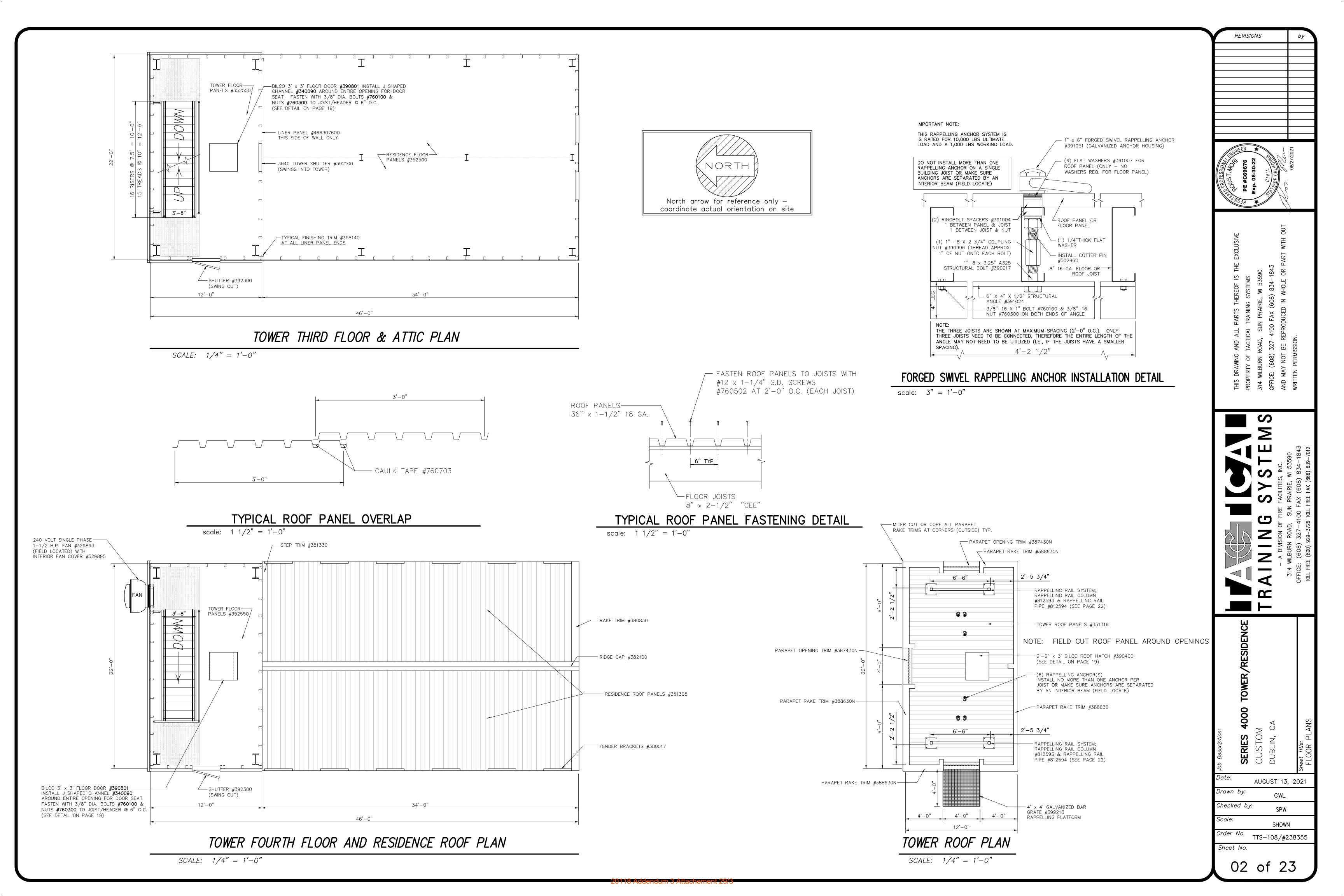
scale:  $1 \frac{1}{2} = 1' - 0''$ 

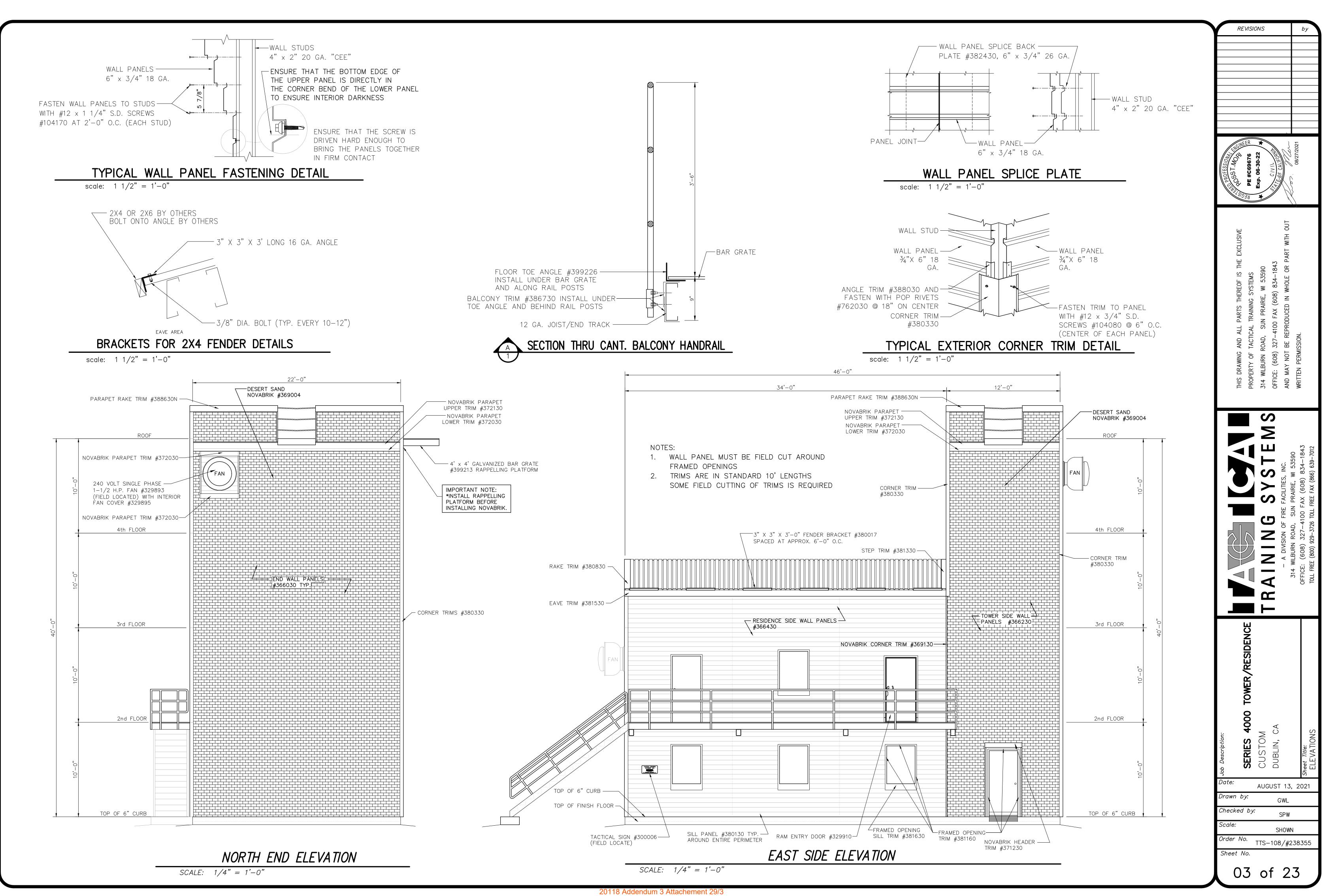


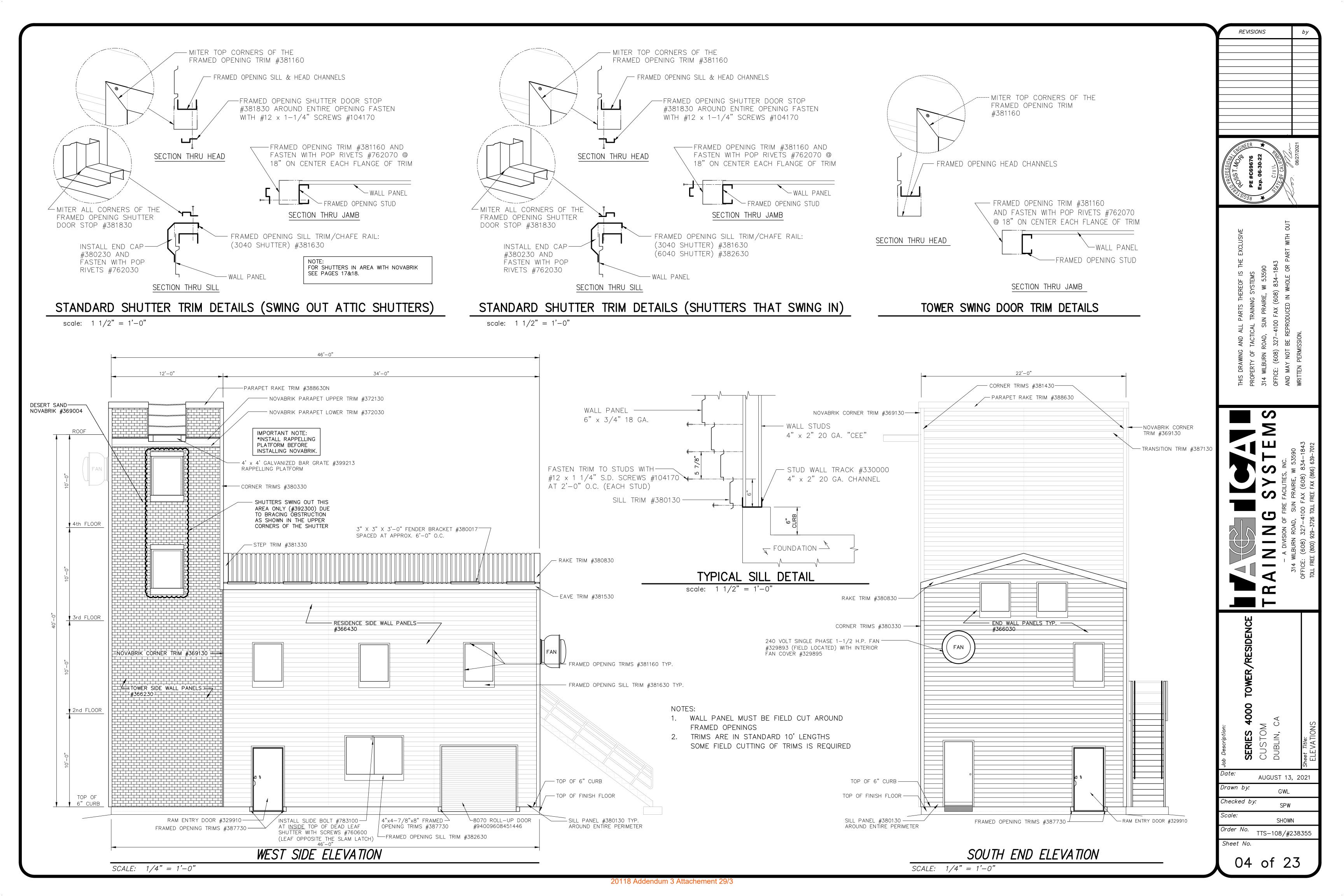
SERIES 46 CUSTOM DUBLIN, CA

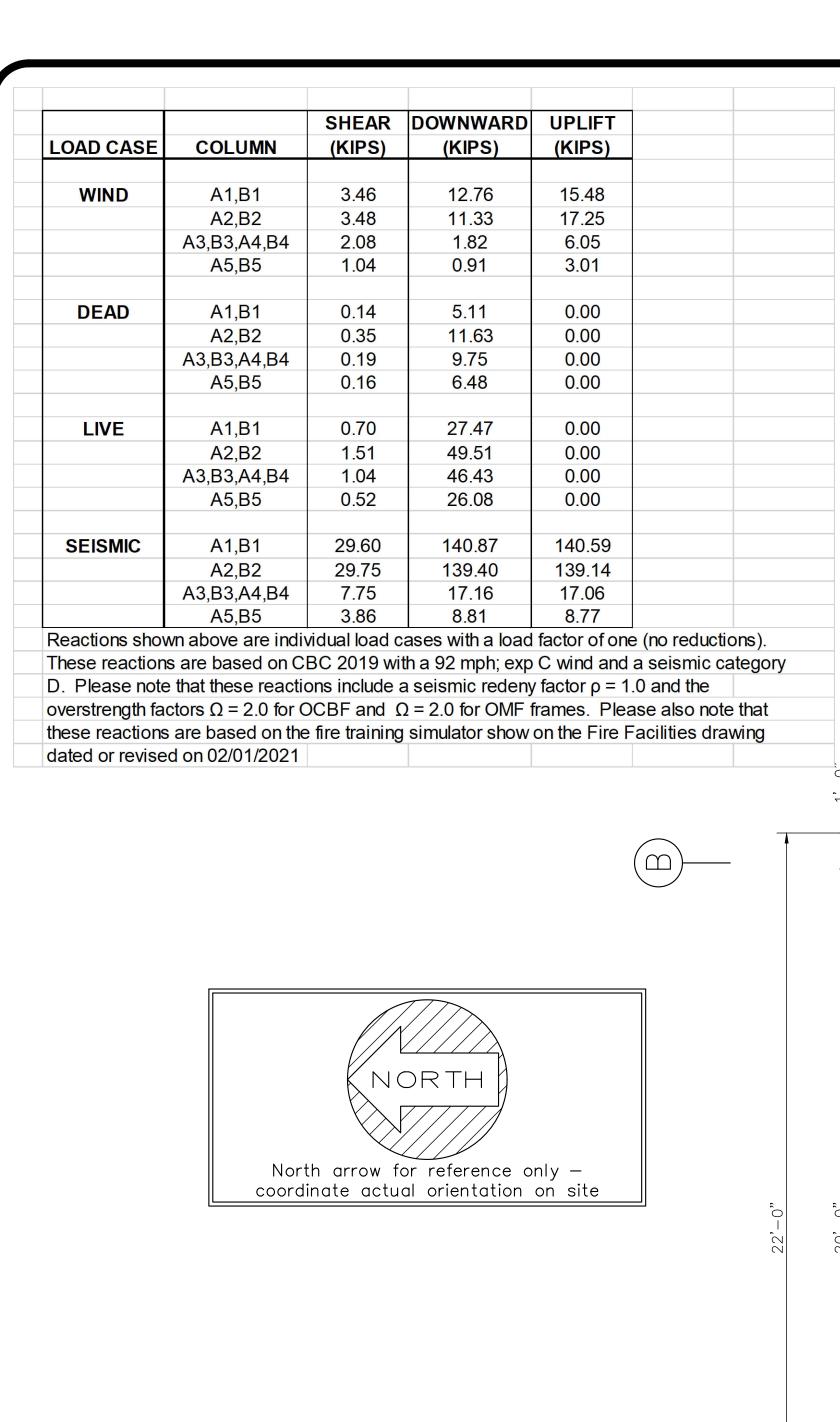
AUGUST 13, 2021 Drawn by: GWL Checked by: SPW Scale: SHOWN

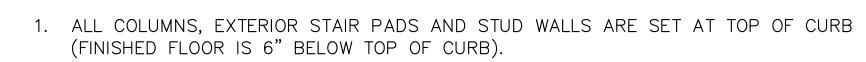
TTS-108/#238355 Sheet No.









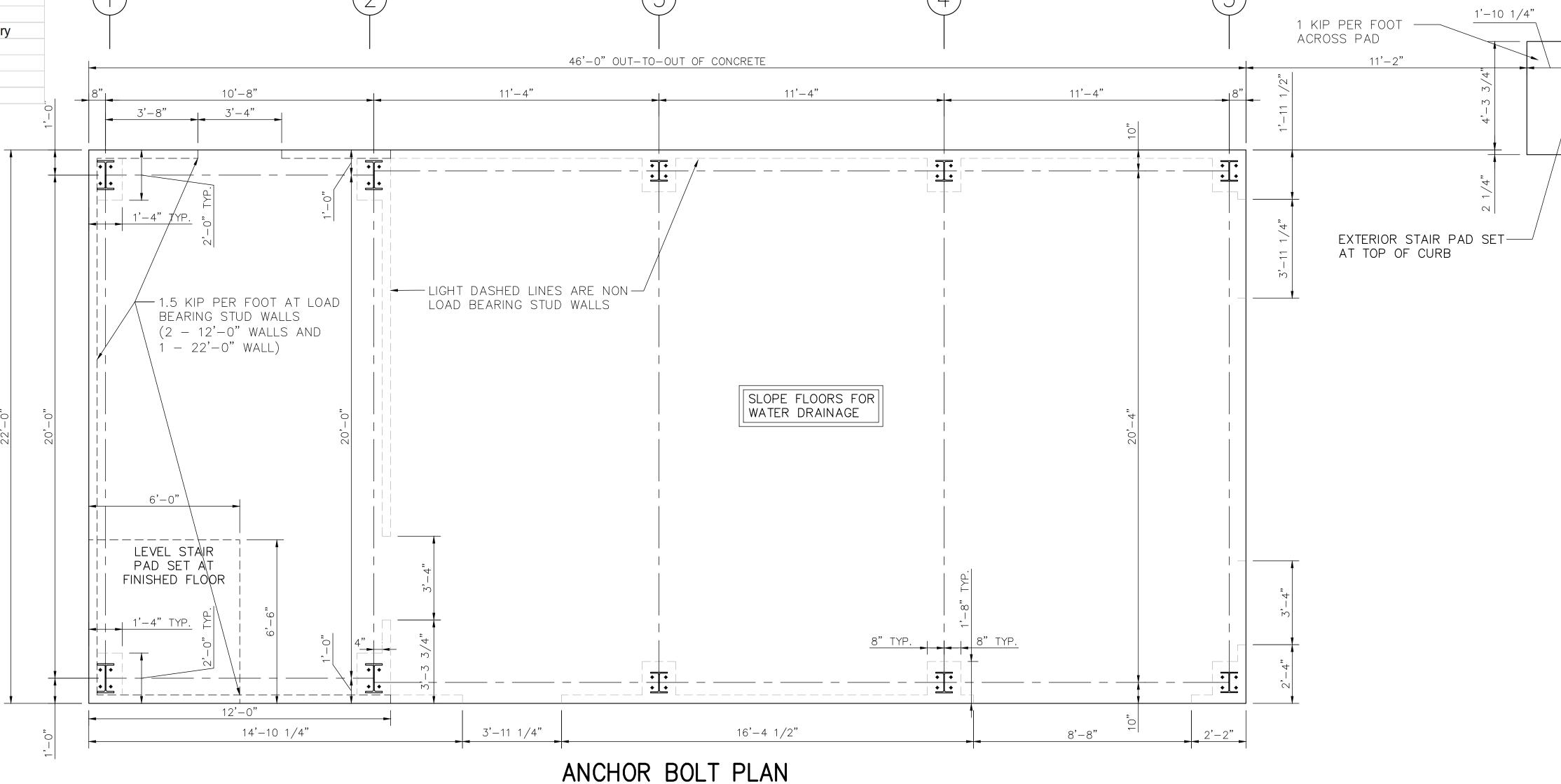


- 2. ALL PADS OUTSIDE OF EXTERIOR DOORS SHOULD BE SET AT FINISHED FLOOR (IF APPLICABLE).
- 3. ALL DOOR OPENINGS THAT ARE DIMENSIONED SHOULD BE HELD EXACT (DOOR LOCATIONS NOT DIMENSIONED CAN BE FIELD LOCATED).

#### NOTE:

EXCLUDES ANY AND ALL PREPARATIONS INVOLVED IN PROVIDING SUITABLE CONCRETE PADS AND/OR FOUNDATIONS

ALSO EXCLUDES ANY ANCHORS REQUIRED TO SECURE THE BUILDING TO THE FOUNDATION.



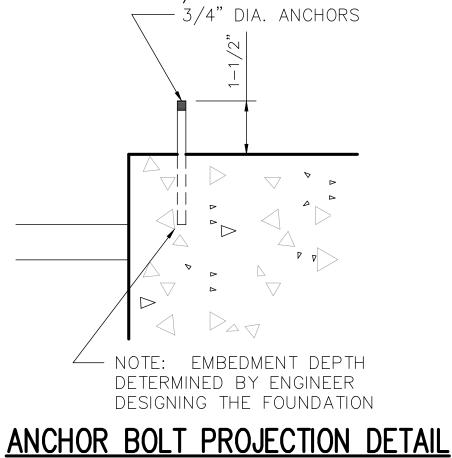


 $\sim$  1-1/4" DIA. ANCHORS

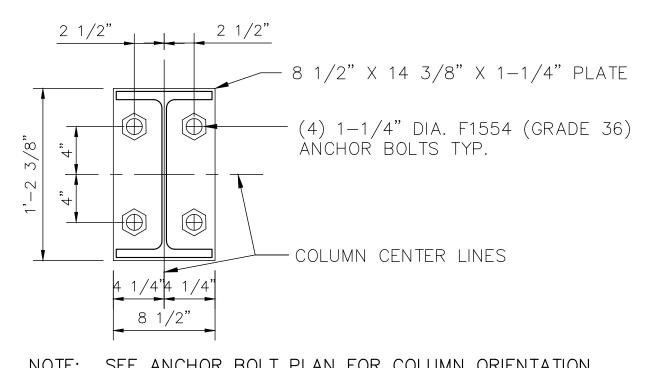
DETERMINED BY ENGINEER

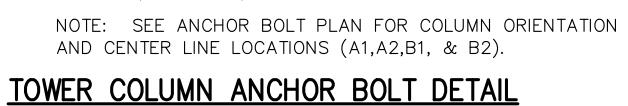
ANCHOR BOLT PROJECTION DETAIL

DESIGNING THE FOUNDATION

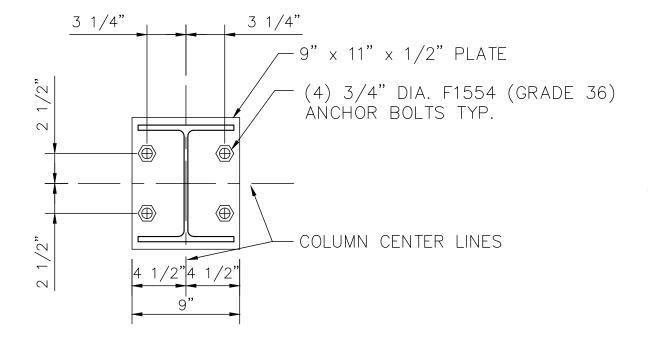


SCALE: 3/8" = 1'-0"



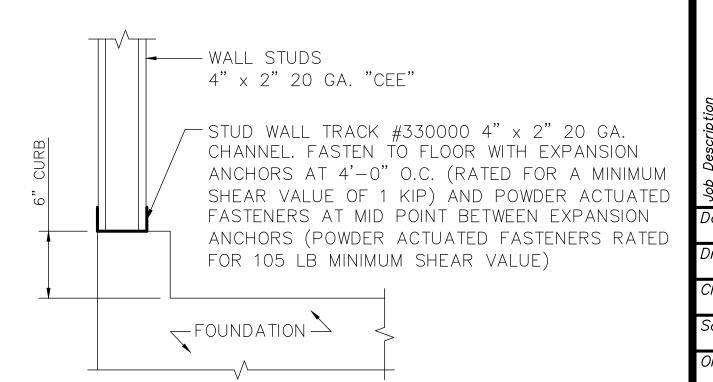


scale:  $1 \frac{1}{2} = 1'-0"$ 



NOTE: SEE ANCHOR BOLT PLAN FOR COLUMN ORIENTATION AND CENTER LINE LOCATIONS (A3,A4,A5,B3,B4, & B5).

RESIDENCE COLUMN ANCHOR BOLT DETAIL scale:  $1 \frac{1}{2} = 1'-0"$ 



TYPICAL STUD WALL BASE DETAIL
scale: 1 1/2" = 1'-0"

PROFESSION

Exp. 06-30-22

CIVIL

BXP. 06-30-22

CONTROP

REVISIONS

PERTY OF TACTICAL TRAINING SYSTEMS
WILBURN ROAD, SUN PRAIRIE, WI 53590
ICE: (608) 327-4100 FAX (608) 834-1843
MAY NOT BE REPRODUCED IN WHOLE OR PART WITH C

INING SYSTEM

- A DIVISION OF FIRE FACILITIES, INC.

SERIES 4000 TOWER/RESIDENCE
CUSTOM
DUBLIN, CA

Date
AUGUST 13, 2021

Drawn by
GWL

Checked by
SPW

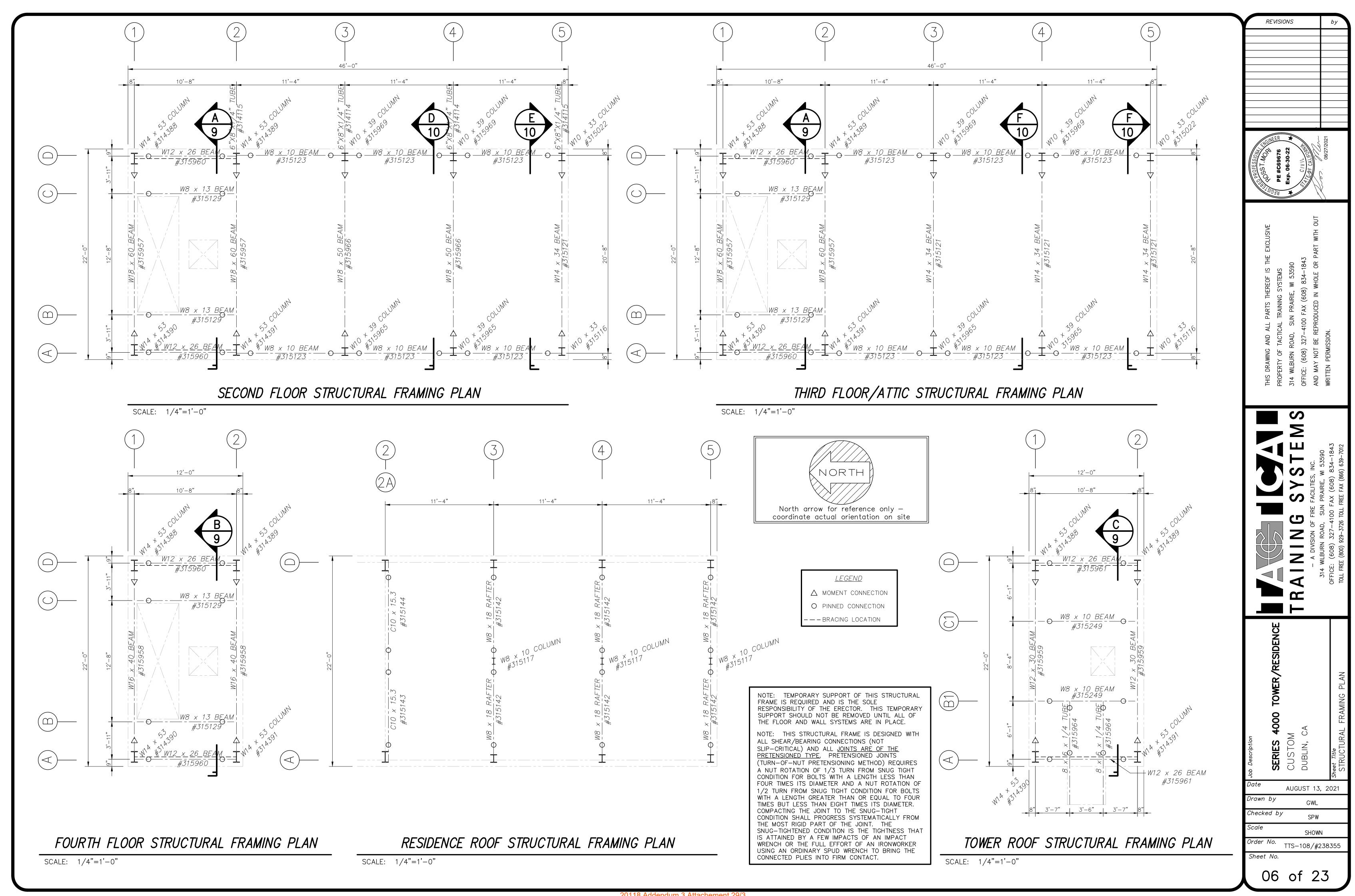
Scale
SHOWN

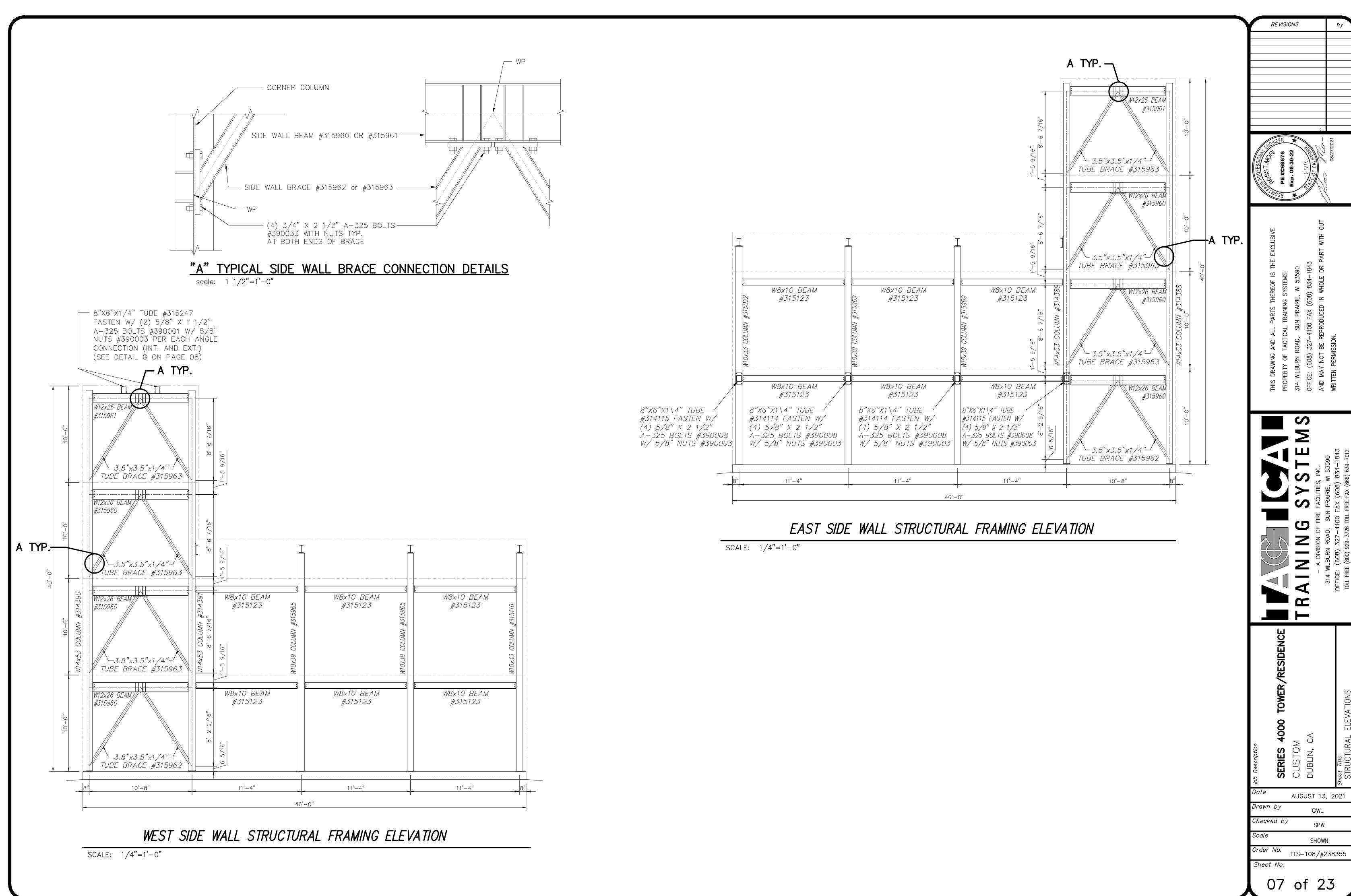
SHOWN

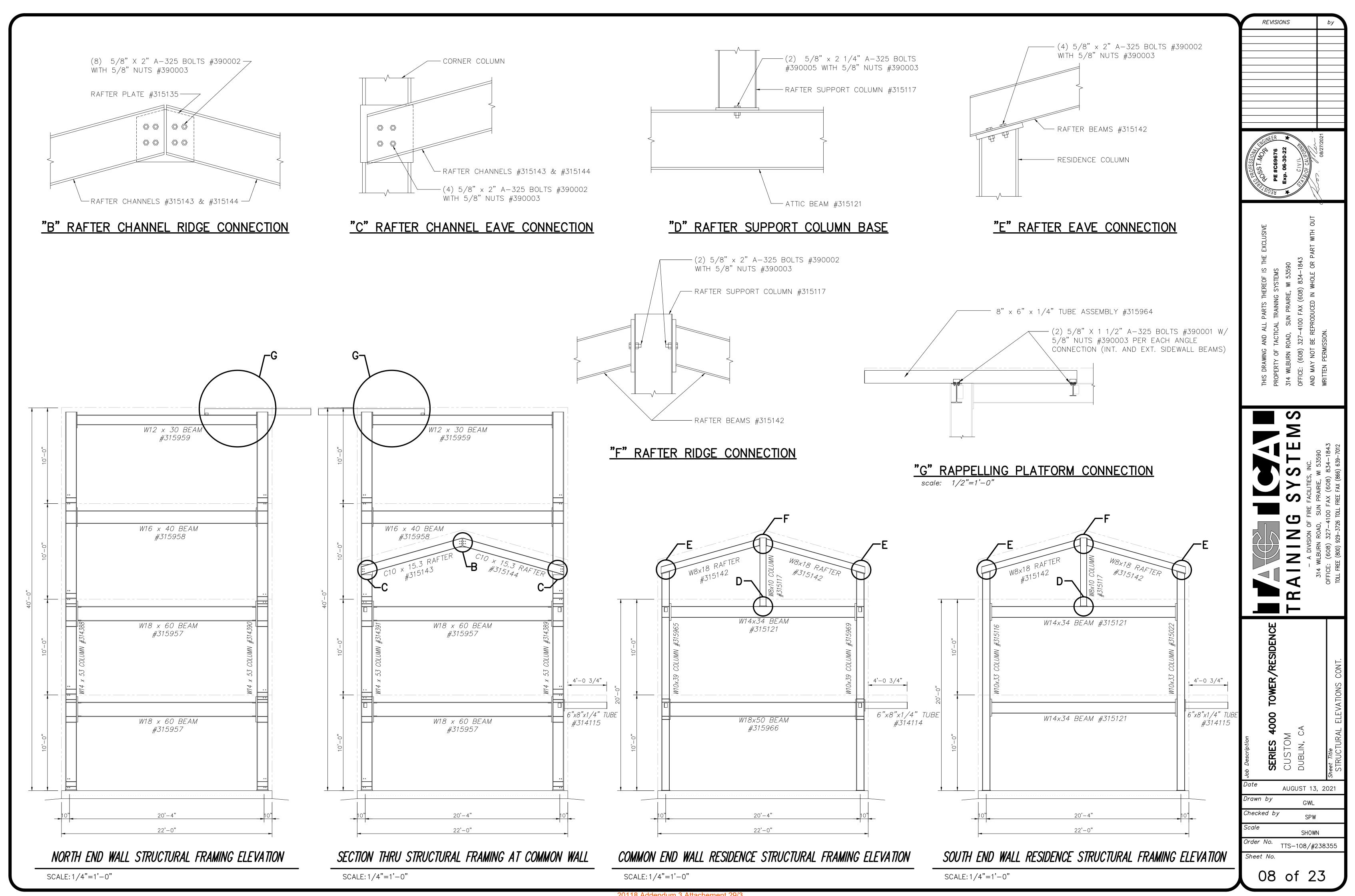
Order No.

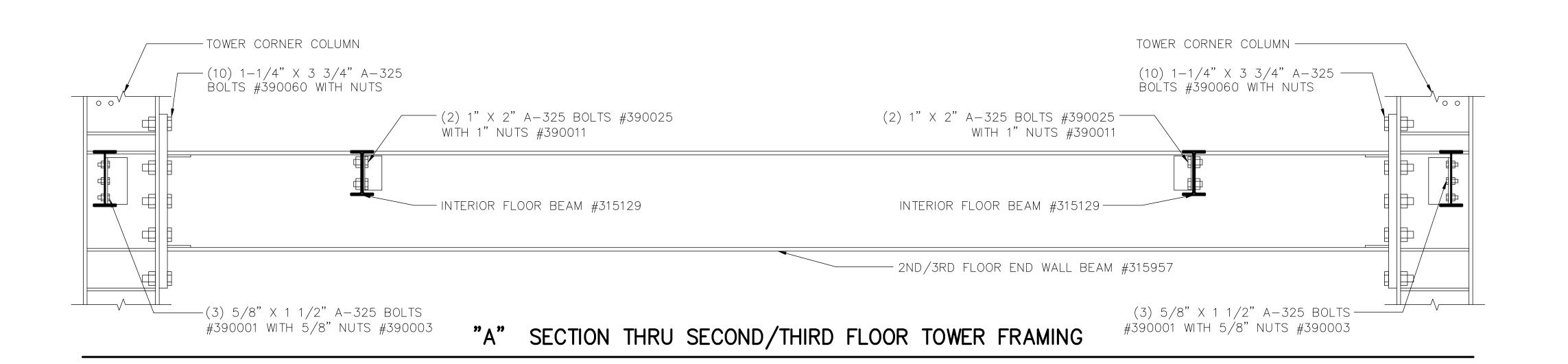
TTS-108/#238355

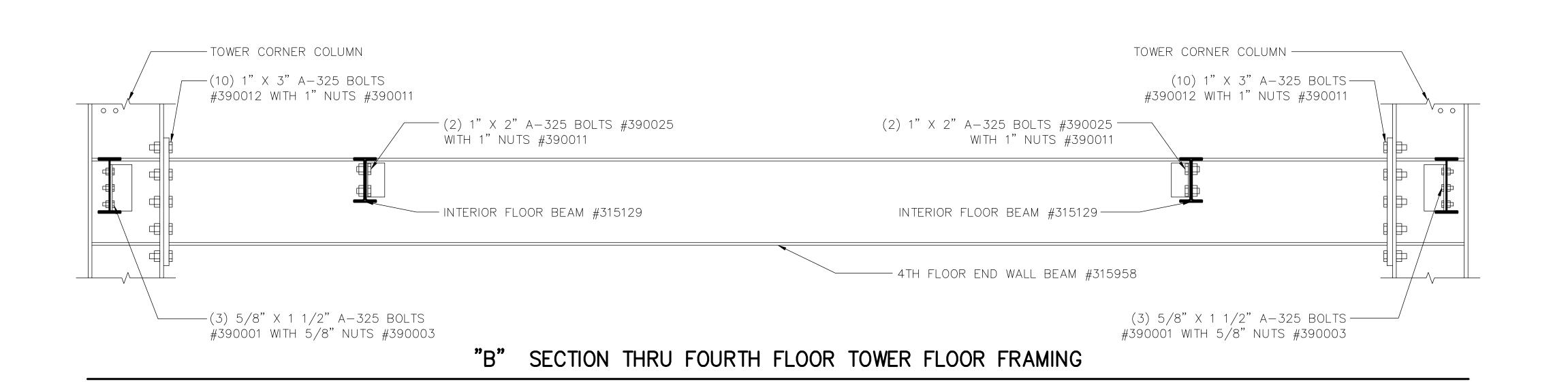
Sheet No.

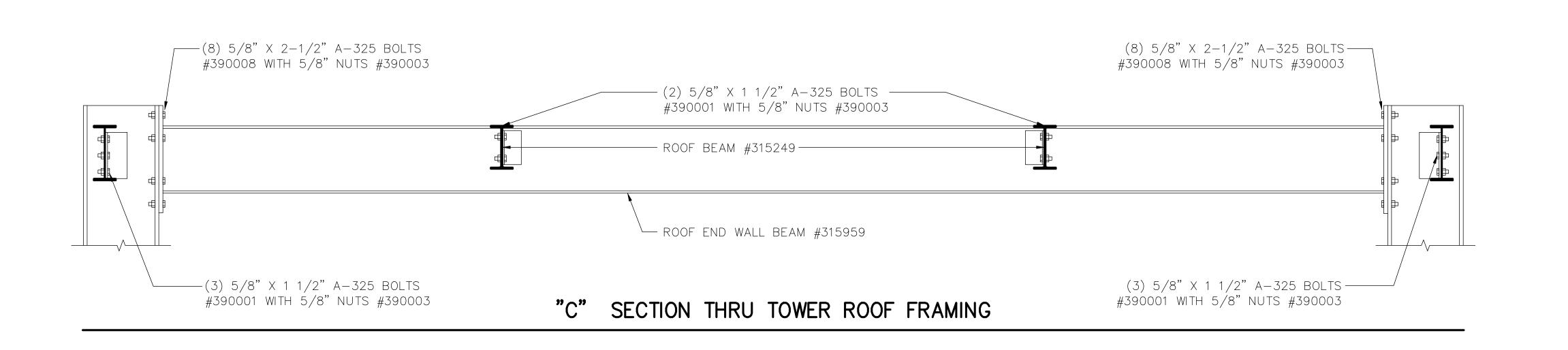


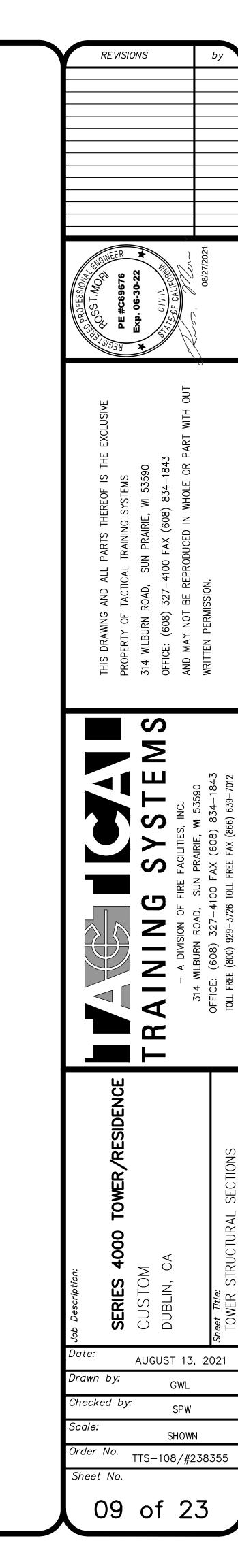


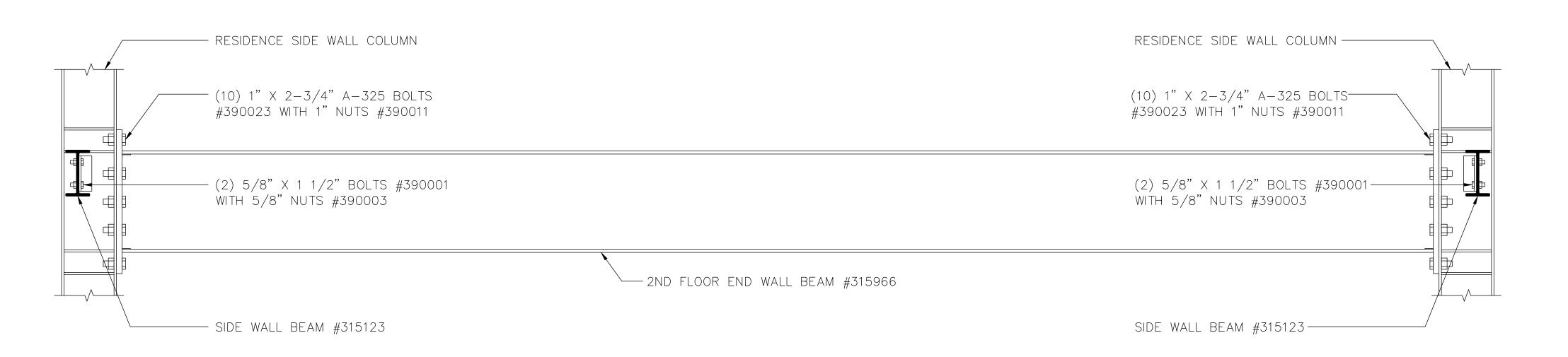




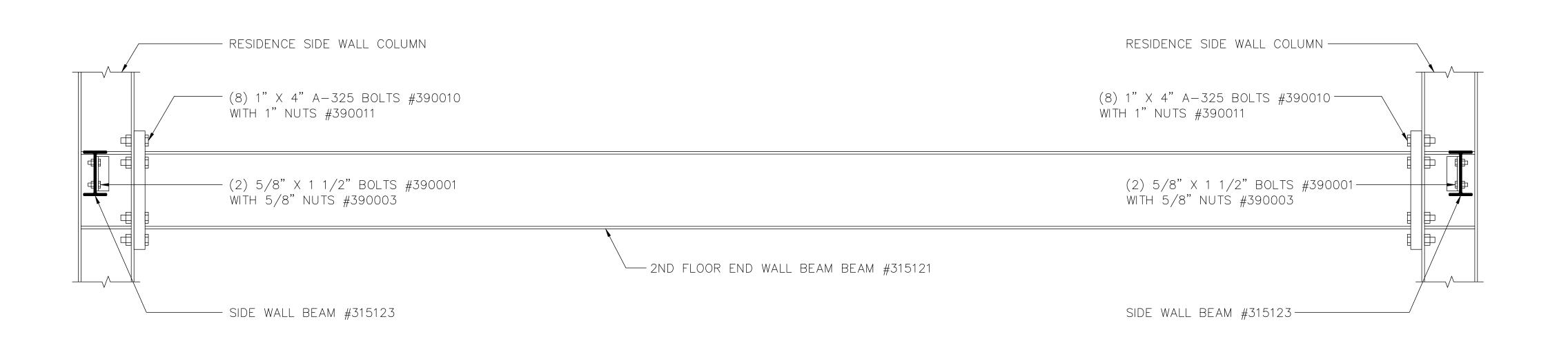




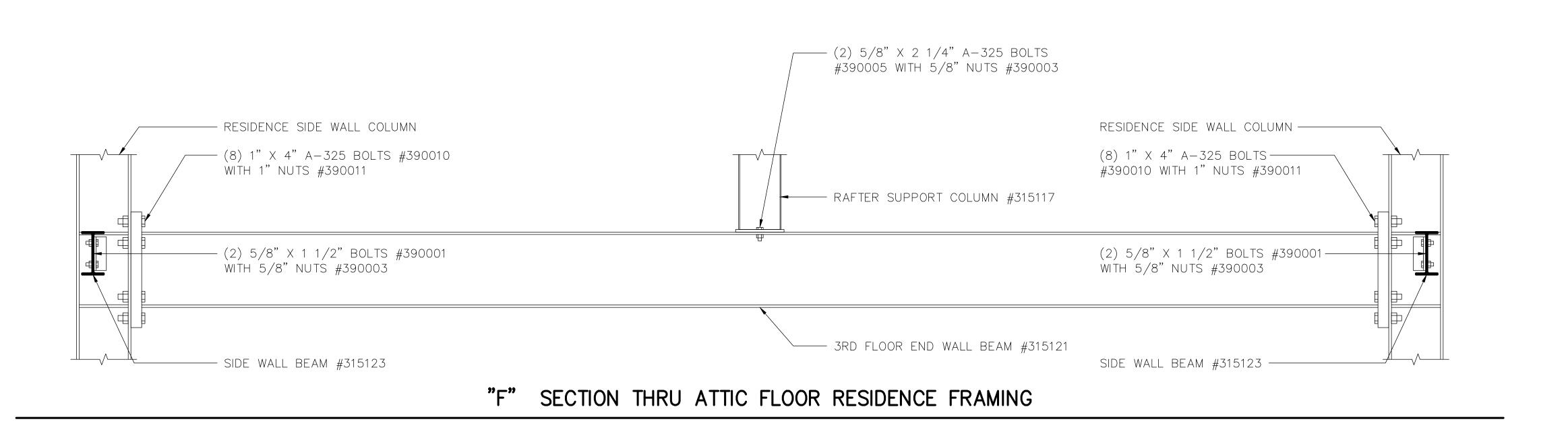


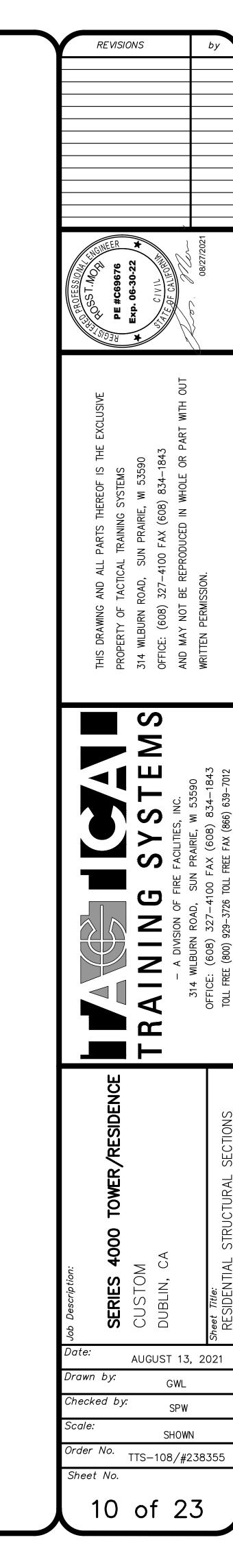


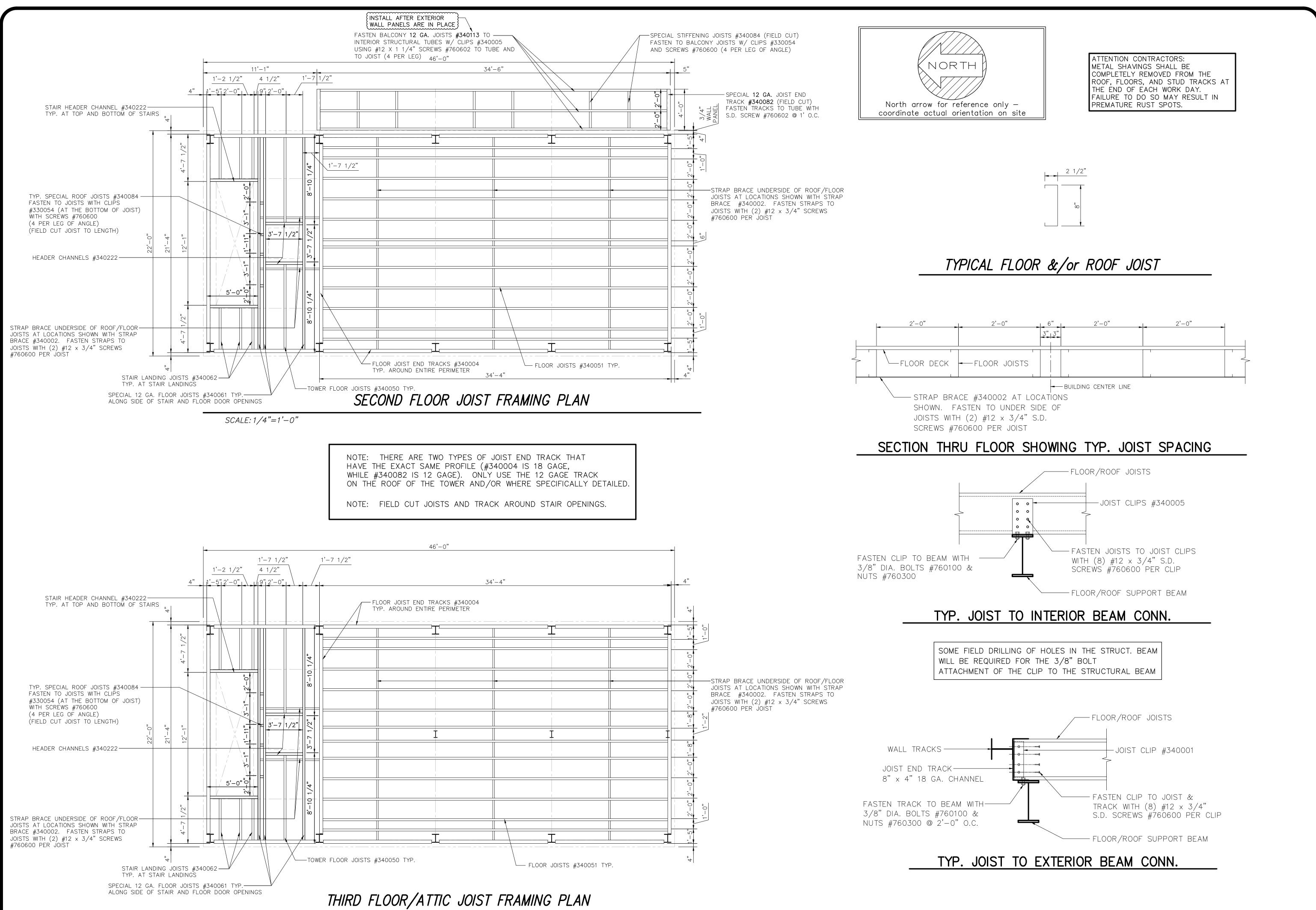
# "D" SECTION THRU INTERIOR SECOND FLOOR RESIDENCE FRAMING



# "E" SECTION THRU SECOND FLOOR END RESIDENCE FRAMING



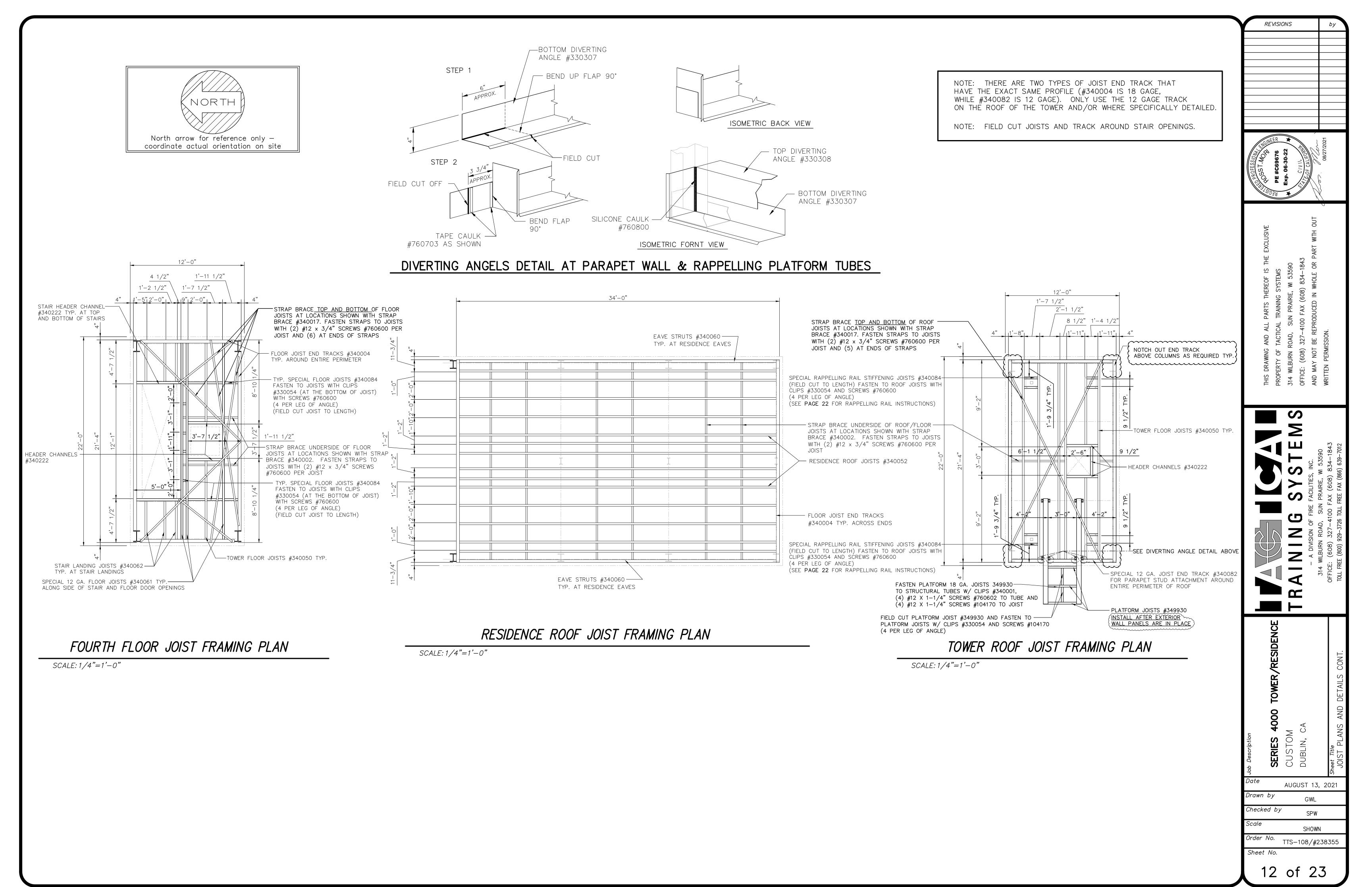


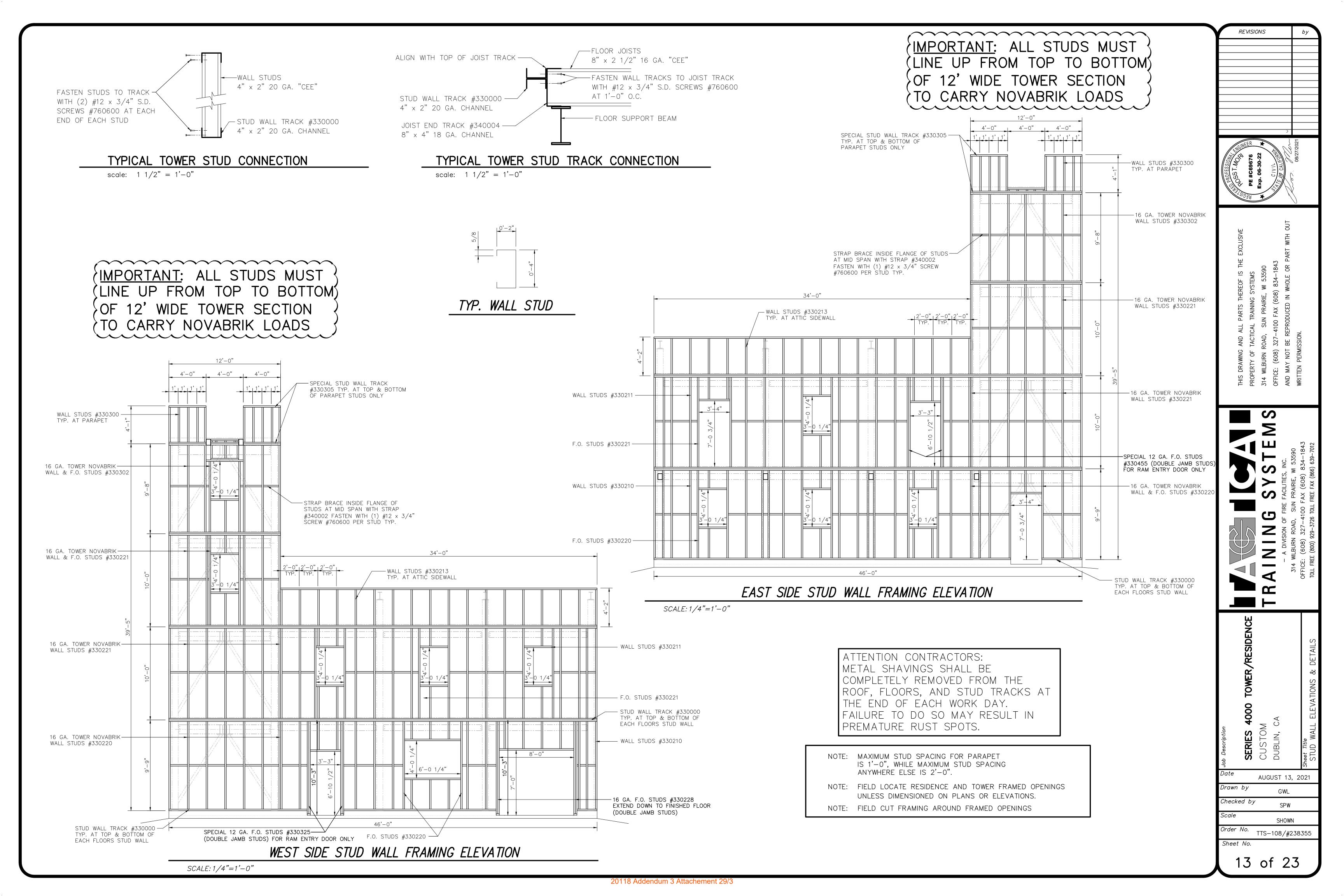


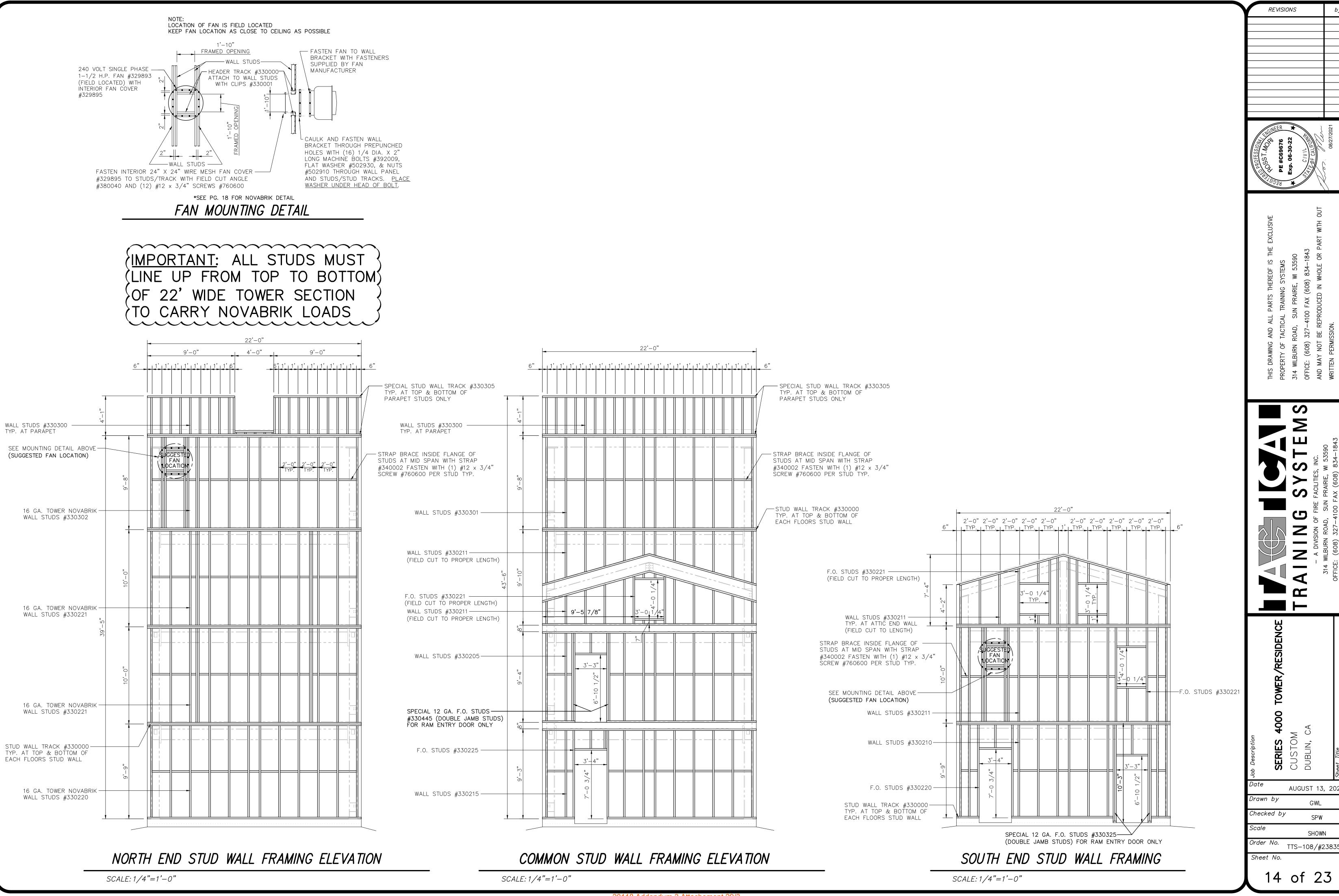
11 of 23

REVISIONS

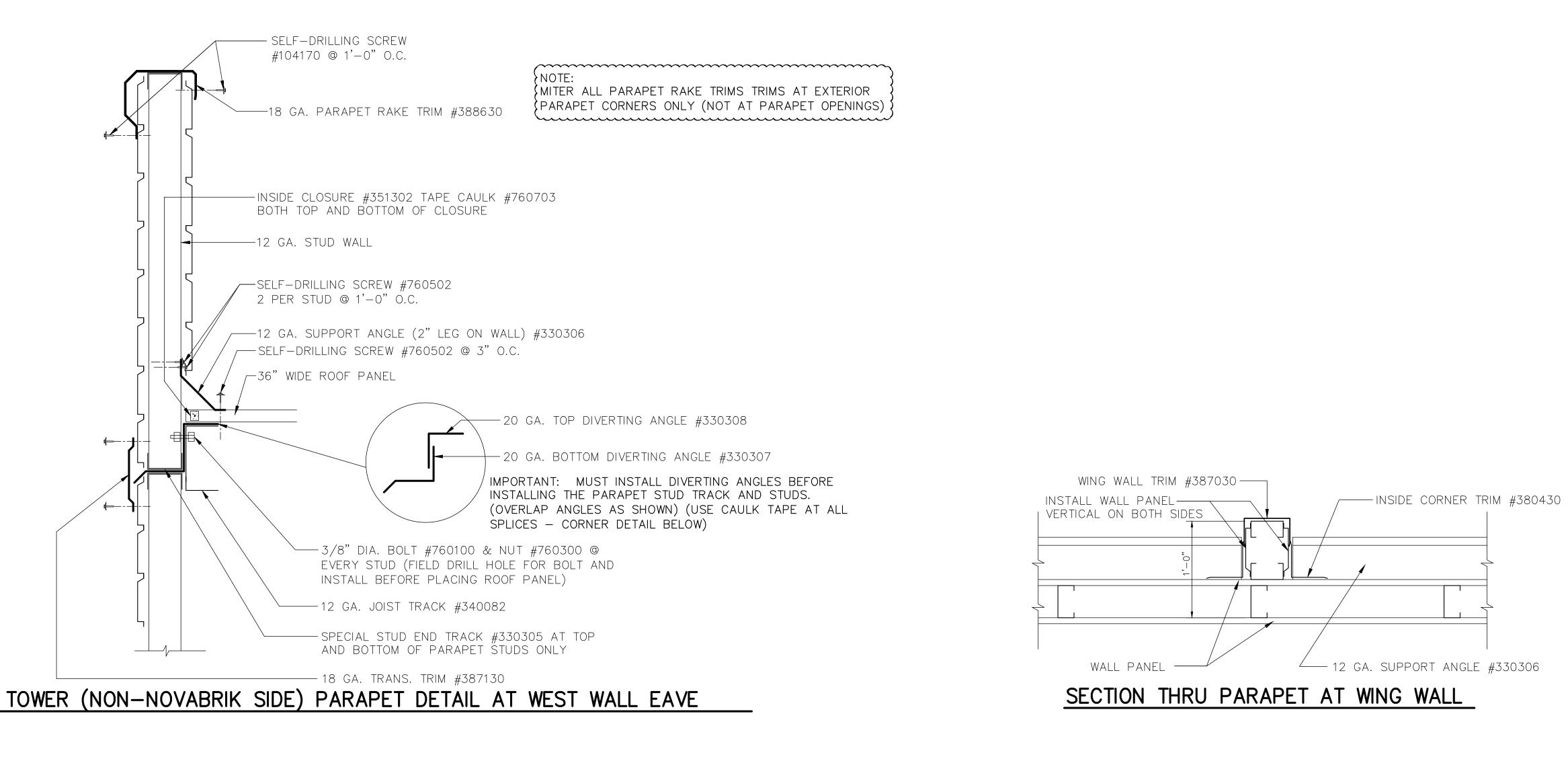
SCALE: 1/4"=1'-0"

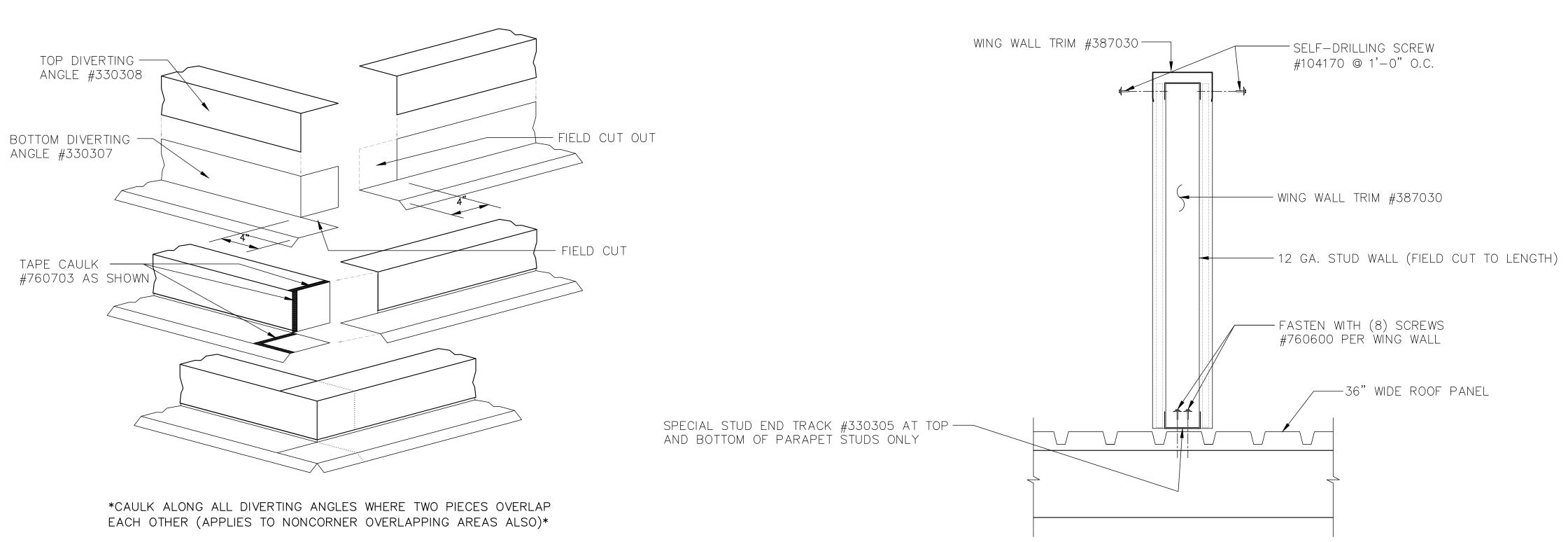






AUGUST 13, 2021 GWL SPW SHOWN TTS-108/#238355





DIVERTING ANGELS/CAULK TAPE DETAIL AT CORNER OF BUILDING

0118 Addendum 3 Attachement 29/3

PARAPET WING WALL DETAIL AT END

E EXCLUSIVE

EXCLUSIVE

EXP. 06-30-22

EXP. 06-30-22

EXP. 06-30-22

EXP. 06-30-22

EXP. 08/27/2021

REVISIONS

THIS DRAWING AND AI PROPERTY OF TACTIC.

SYSTEMS

ACILITIES, INC.

AND MAY NOT BE REI

TRAINING SUN PRAIRIE, WI 5358

OFFICE: (608) 327-4100 FAX (608) 834-7

SERIES 4000 TOWER/RESIDENCE
CUSTOM
DUBLIN, CA

Date:
AUGUST 13, 2021

Drawn by:
GWL

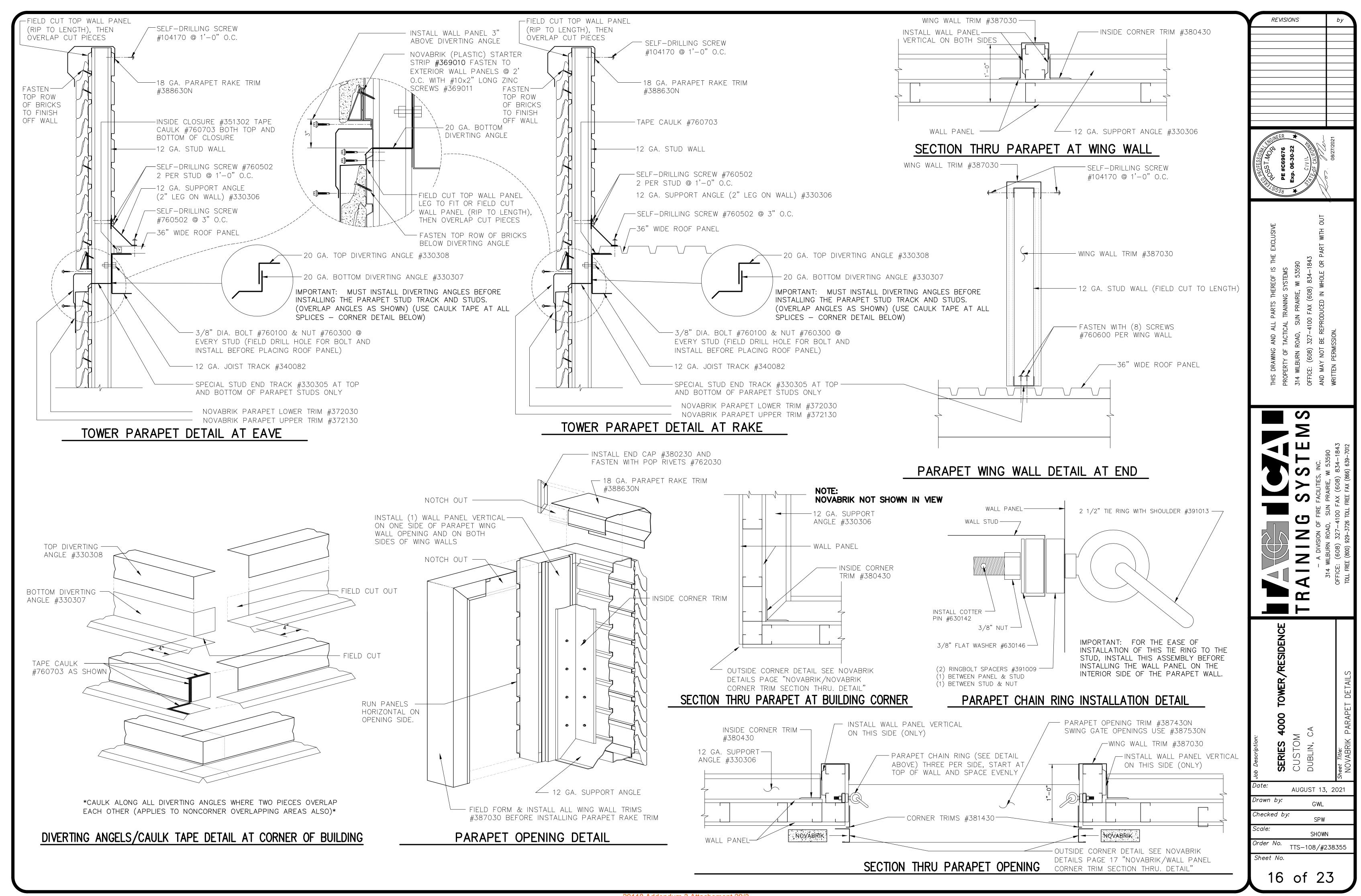
Checked by:
SPW

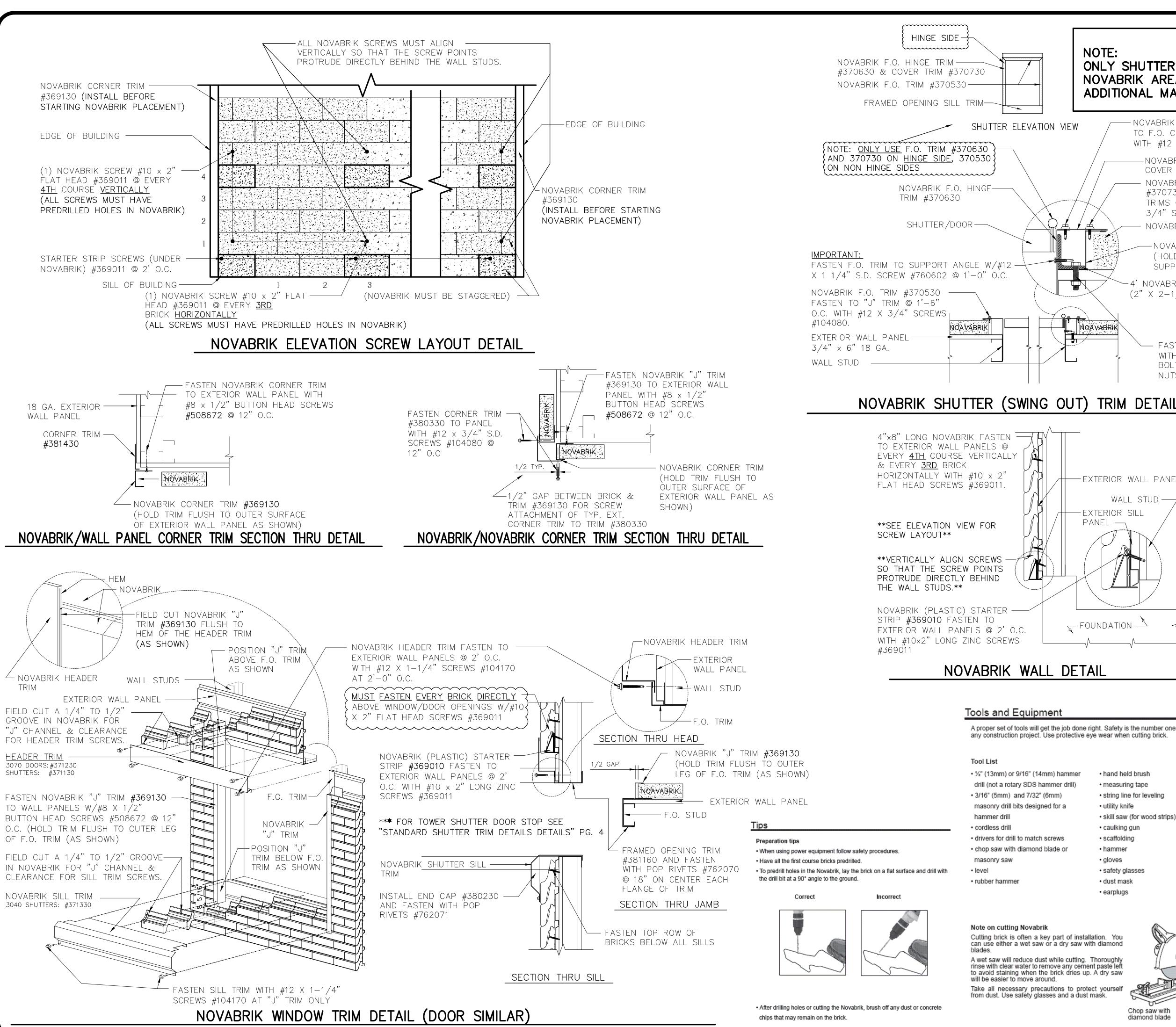
 Scale:
 SHOWN

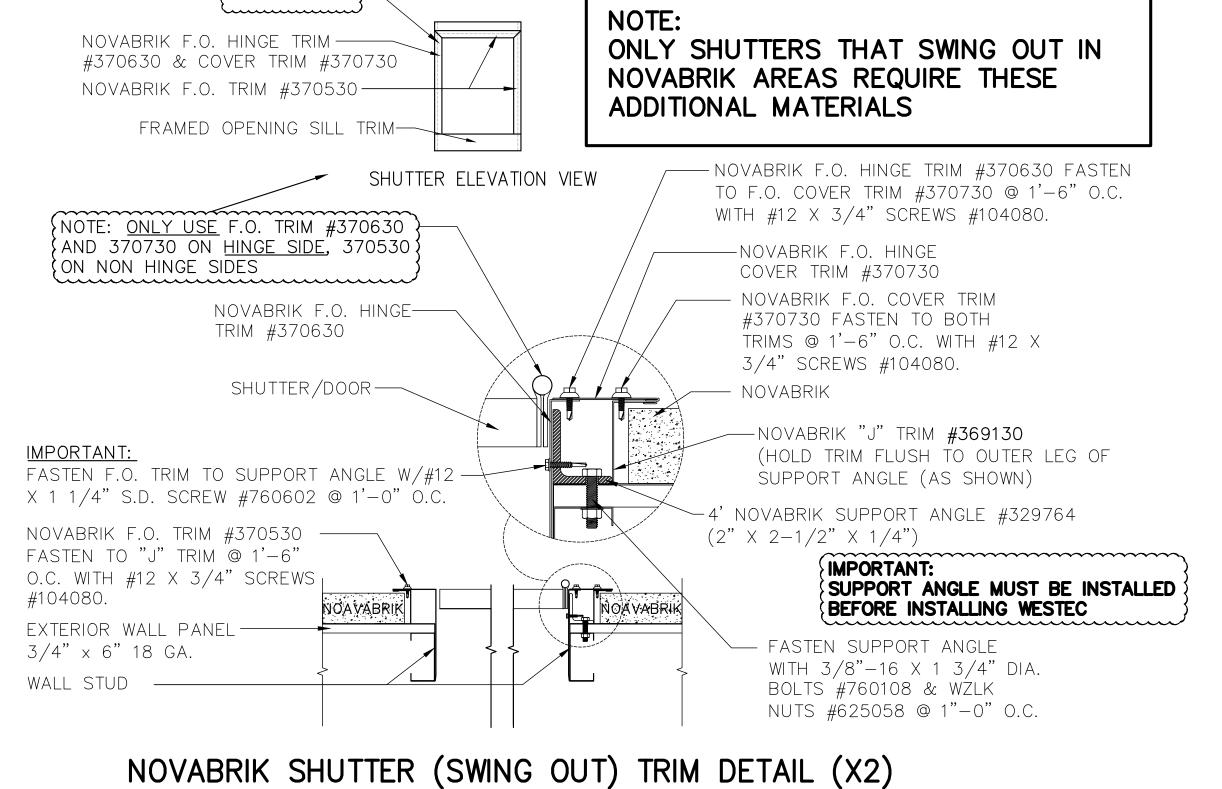
 Order No.
 TTS-108/#238355

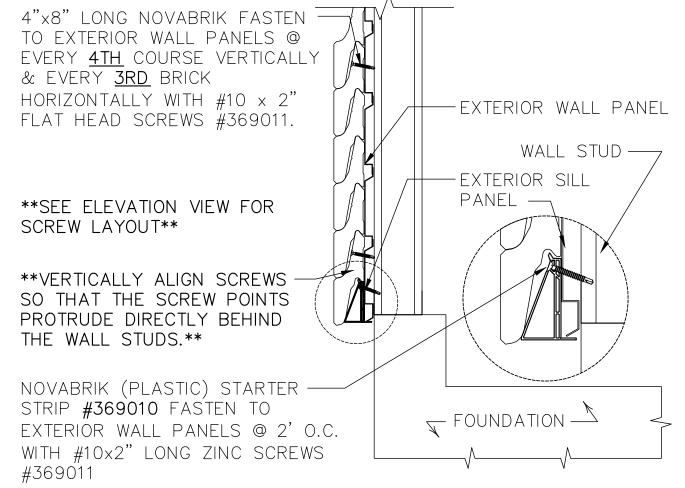
15 of 23

Sheet No.









A proper set of tools will get the job done right. Safety is the number one item on

Chop saw with diamond blade

INSTALLING THE NOVABRIK

WITH ALL THE PREP WORK COMPLETED, YOU ARE READY

-SLOPED ROOF SYSTEMS WILL REQUIRE THE NOVABRIK TO BE INSTALLED BEFORE THE ROOF PANELS.

-INSTALL THE NOVABRIK ON THE STARTER STRIP. AT EVERY FURRING STRIP, HOLD DOWN THE FACE OF THE BRICK AND DRILL HOLES AT A DOWNWARD ANGLE (AROUND 30°).

-HOLD THE BRICK FLAT ON THE WALL AND ANCHOR IT WITH A #10 X 2" (64MM) SCREW AT A SLIGHT DOWNWARD ANGLE UNTIL THE HEAD TOUCHES THE BRICK. DO NOT OVER-TIGHTEN. -BE SURE TO MIX NOVABRIK FROM DIFFERENT PALLETS AS YOU STACK AND INSTALL. THIS WILL BLEND THE

-CHECK THE LEVELING AT EVERY FOURTH COURSE BEFORE FASTENING AND MAKE ADJUSTMENTS IF NECESSARY. A LONG LEVEL OR STRAIGHT EDGE CAN

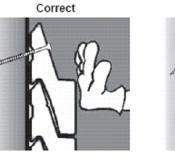
TO TAP THE BRICKS IN PLACE AND BRUSH DOWN WITH A SMALL BROOM TO REMOVE DIRT AND DUST.

#### <u>More Tips</u>

Installation tips

NOVABRIK TOGETHER.

 Give a firm rubber hammer strike down on a 2" x 4" setting on the bricks, before fastening the bricks and tap the face of the bricks. This will set and level the brick before fastening.



Hold down the face of the brick when fastening the Novabrik. This will

prevent the it from kicking out during this procedure. Cut and install the Novabrik in a way that the shinny side of the brick (the cut side) is less appearent. Do the same for window sills, i.e.: the cut side into the

middle of the opening.

A 14" blade will allow you to cut two bricks at once.

Use two separate drills, one for screwing and the other for drilling into the

. Have a good pair of snips to cut the trim.

REVISIONS S

AUGUST 13, 2021

GWL

SHOWN

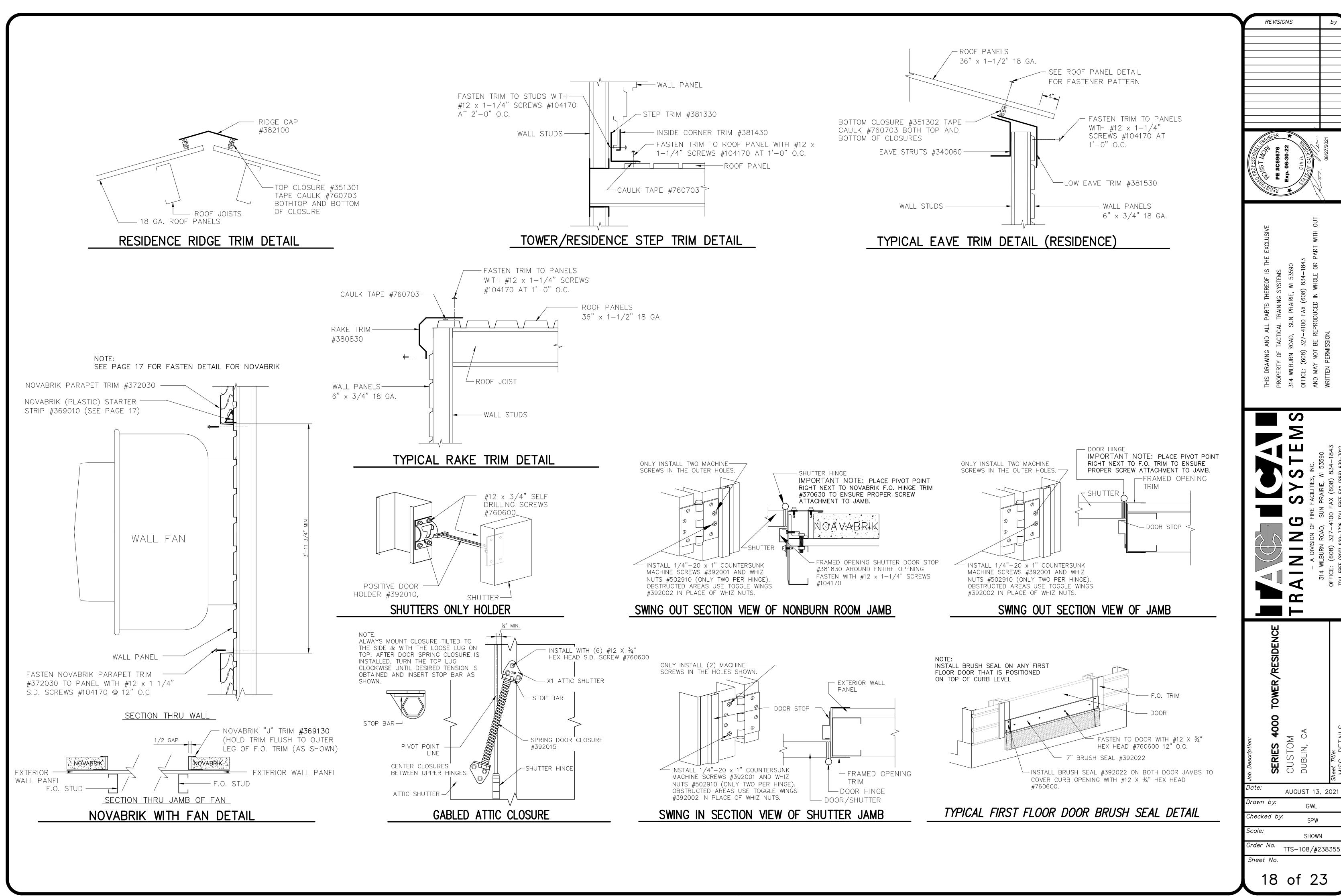
TTS-108/#238355

17 of 23

Drawn by:

Checked by:

Sheet No.

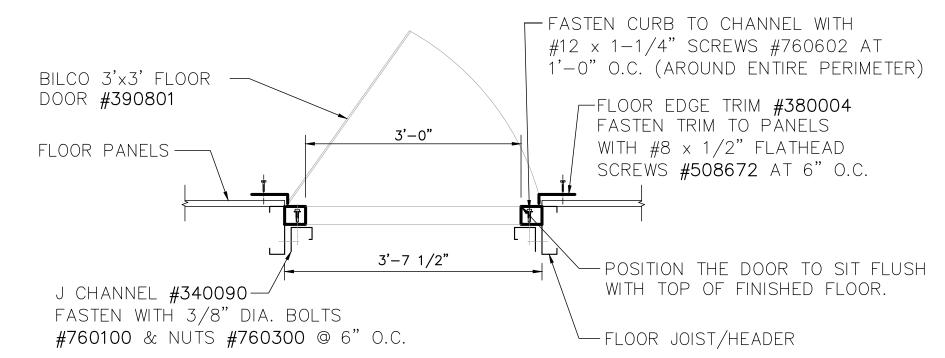


# NOTE: FRAMED OPENING FRAMING WILL REQUIRE SOME FIELD CUTTING WALL TRACK #330000 4" x 2" 20 GA. CHANNELS WALL TRACK #330000 4" x 2" 20 GA. CHANNELS

-F.O. TRACK #330000 (4" x 2" 20 GA. CHANNEL) ATTACH TO SHUTTER JAMBS -F.O. TRACK #330000 WITH CLIPS #330001 (4" x 2" 20 GA. CHANNEL) ATTACH TO DOOR JAMBS WITH CLIPS #330001 - JAMB SUPPORTS (SAME AS SWING DOOR) 4" x 2" "CEE" GA. VARIES BY FLOOR — SWING DOOR JAMB SUPPORTS 4" x 2" "CEE" GA. VARIES BY FLOOR 3'-0 1/4" -----WALL STUDS ---- WALL STUDS 4" x 2" "CEE" GA. VARIES BY FLOOR 4" x 2" "CEE" GA. VARIES BY FLOOR ABOVE HIGHEST POINT OF EITHER THE METAL/CONCRETE FINISHED FLOOR OR ABOVE HIGHEST POINT OF EITHER THE CURB (NOT NECESSARILY TO THE METAL/CONCRETE FINISHED FLOOR OR BOTTOM OF THE STUD TRACK) CURB (NOT NECESSARILY TO THE BOTTOM OF THE STUD TRACK)

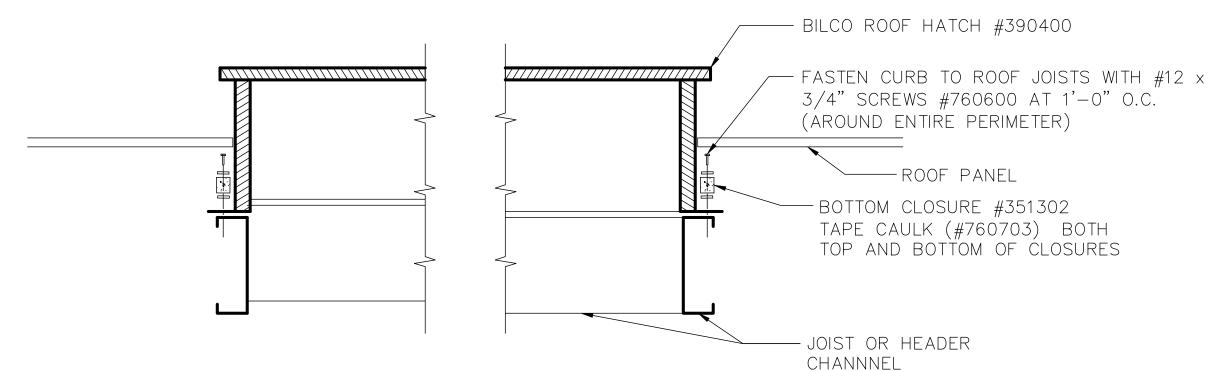
TYPICAL TOWER SWING DOOR FRAMED OPENING ELEVATION

TYPICAL TOWER WINDOW/SHUTTER FRAMED OPENING ELEVATION

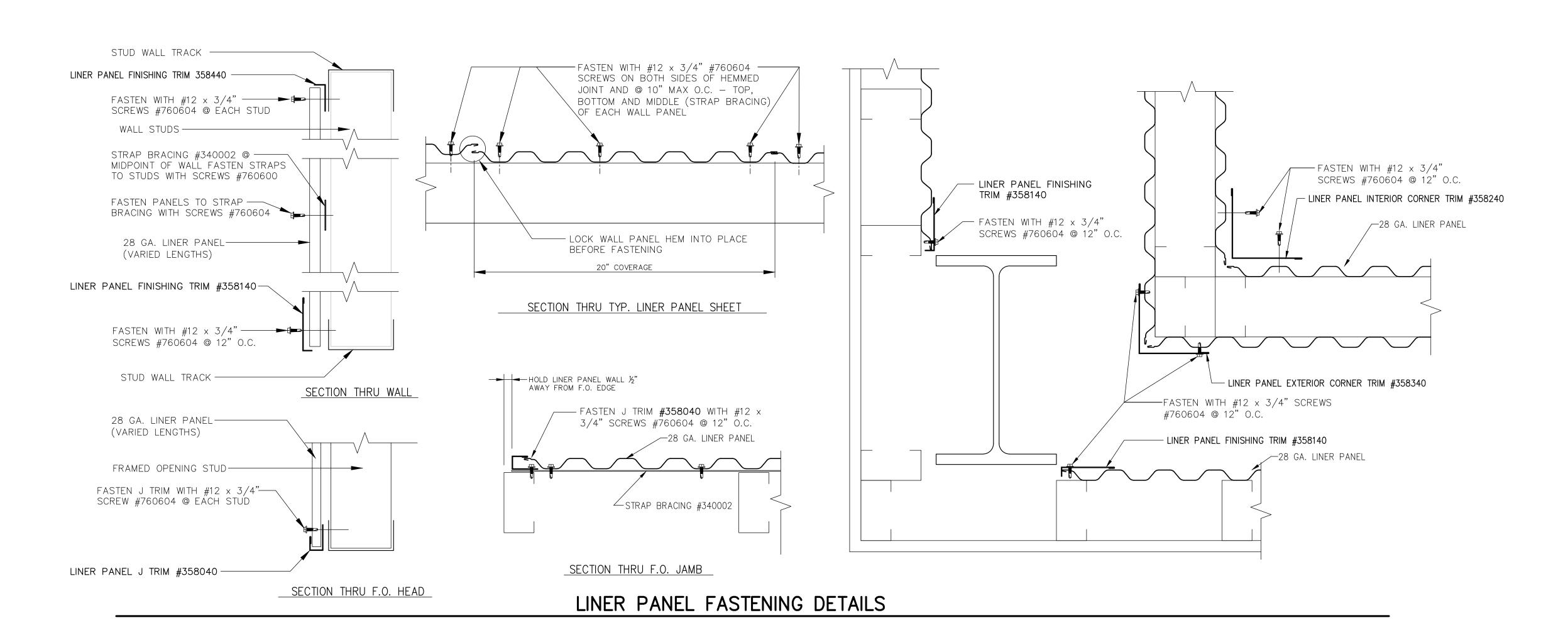


3'x3' BILCO FLOOR DOOR DETAIL (X3)

scale: 3/4" = 1'-0"



BILCO ROOF HATCH INSTALLATION DETAIL



PERTY OF TACTICAL TRAINING SYSTEMS
WILBURN ROAD, SUN PRAIRIE, WI 53590
ICE: (608) 327-4100 FAX (608) 834-1843
MAY NOT BE REPRODUCED IN WHOLE OR PART WITH OUT

RAINING SYSTEMS

- A DIVISION OF FIRE FACILITIES, INC.

SERIES 4000 TOWER/RESIDENCE
CUSTOM
DUBLIN, CA

Drawn by:

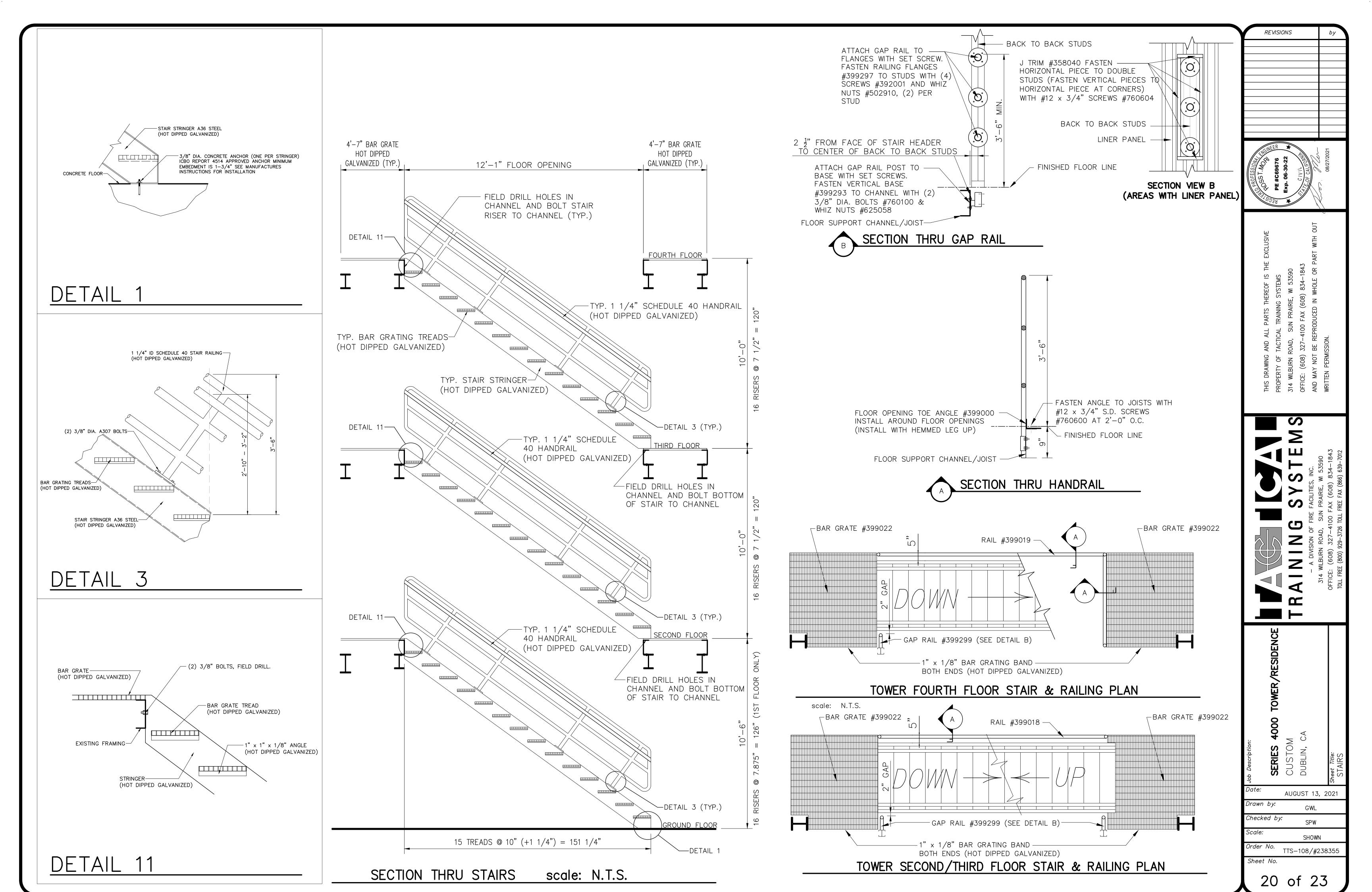
Checked by:

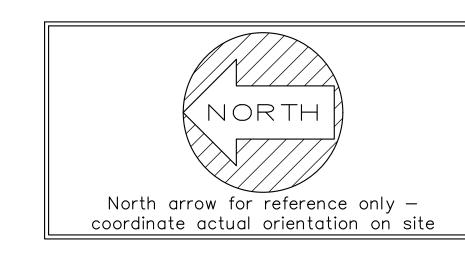
SPW

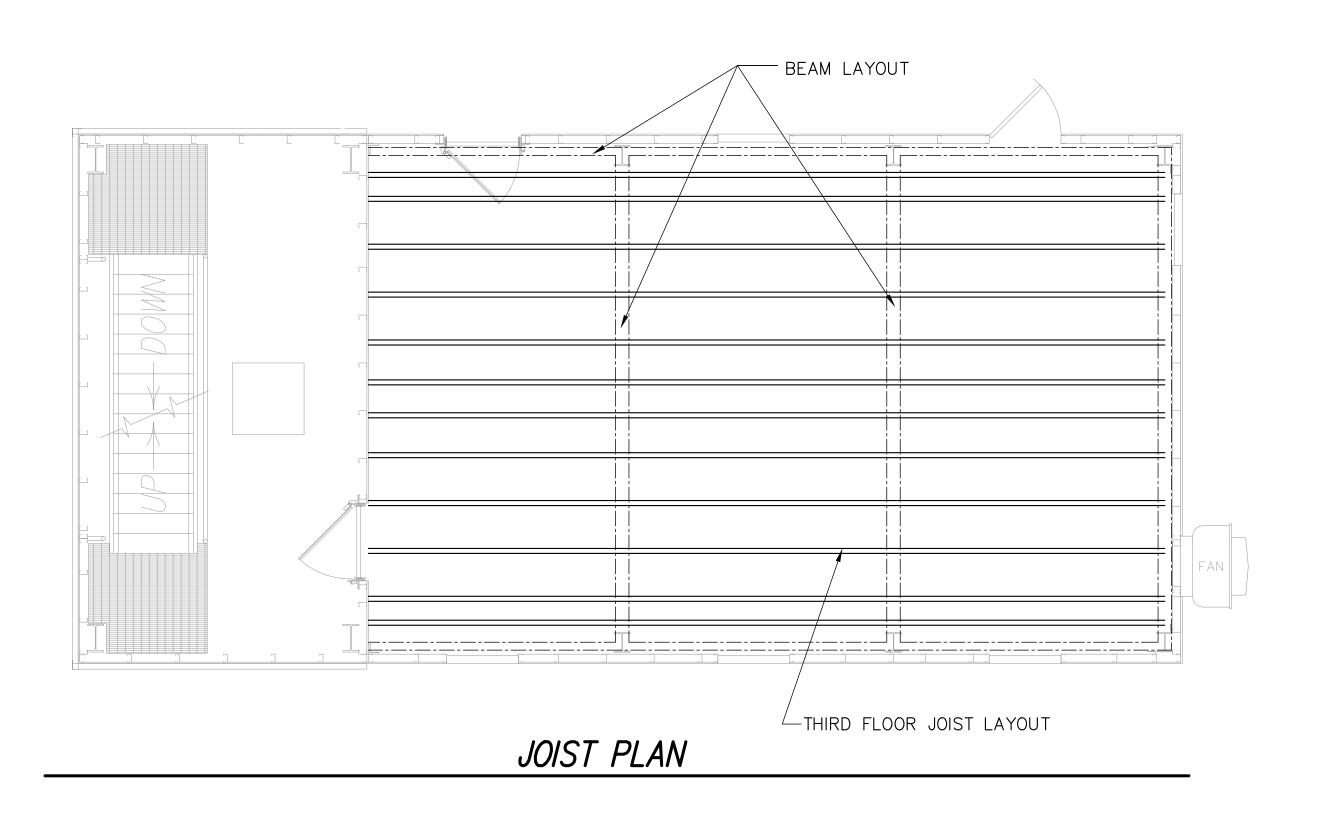
SHOWN

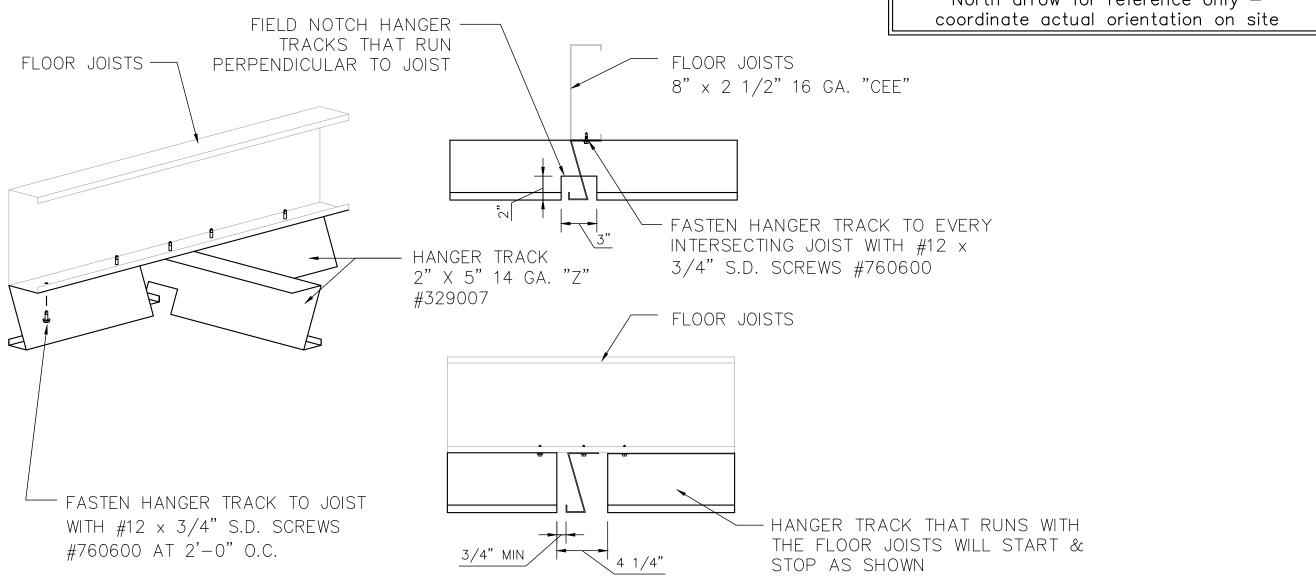
Order No. TTS-108/#238355

Sheet No.





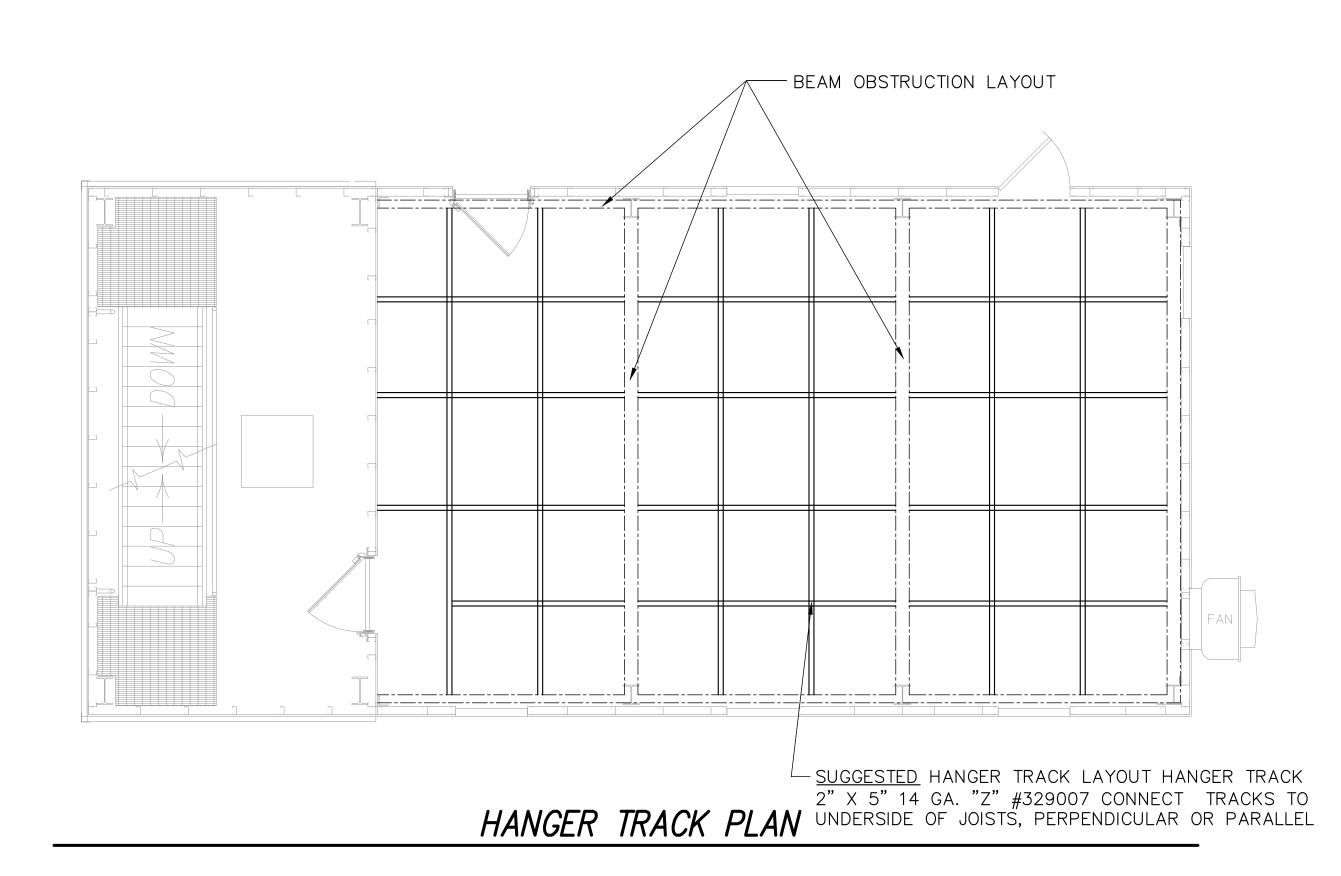


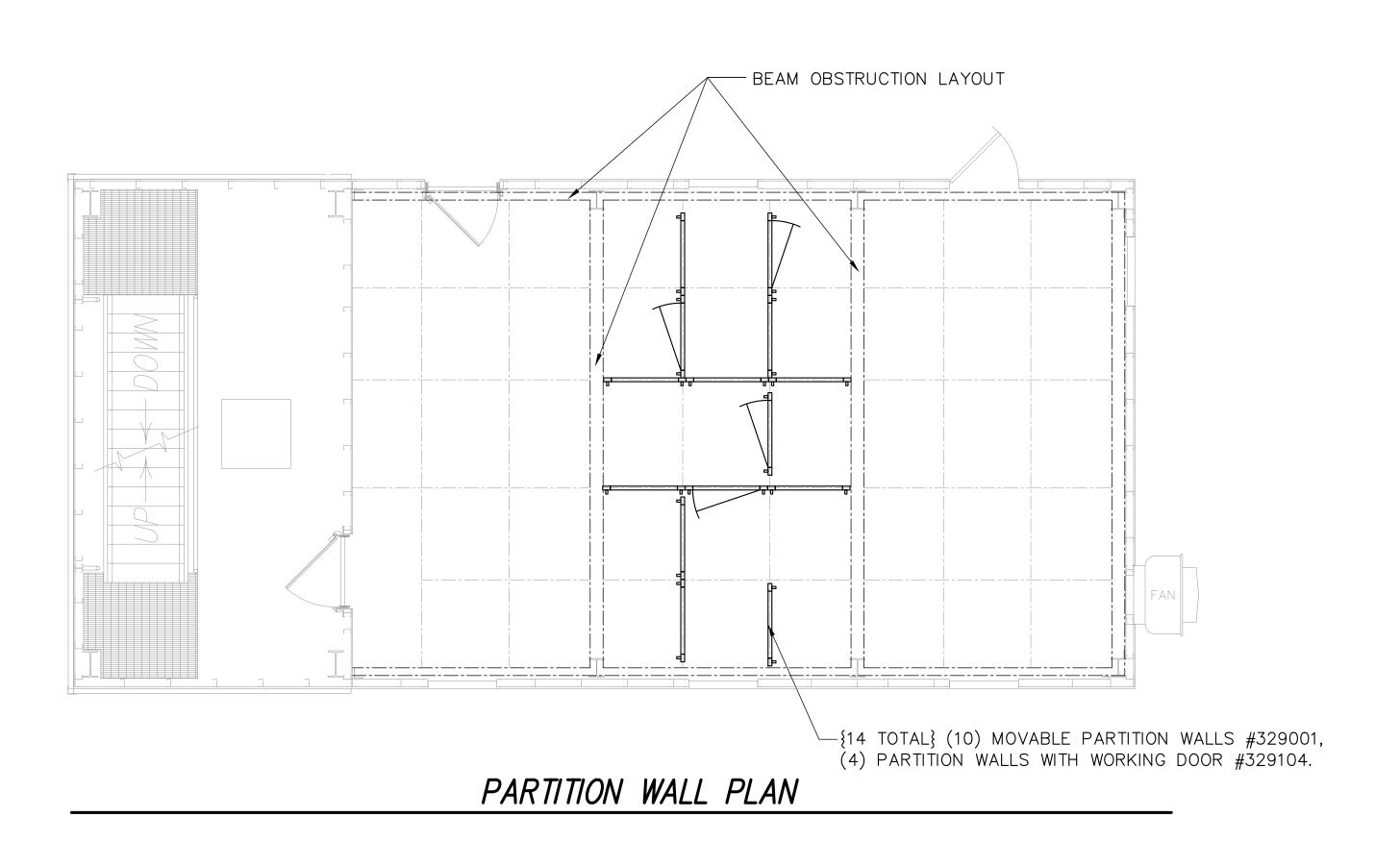


NOTE: LOCATIONS OF HANGER TRACKS AND PARTITION WALLS IS A SUGGESTION ONLY ERECTOR SHOULD COORDINATE FINAL PATTERNS WITH CUSTOMER.

TYPICAL HANGER TRACK INTERSECTION DETAIL

# NOTE: LOCATIONS OF HANGER TRACKS AND PARTITION WALLS IS A SUGGESTION ONLY





SECOND FLOOR HANGER TRACK/PARTITION WALL LAYOUT

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

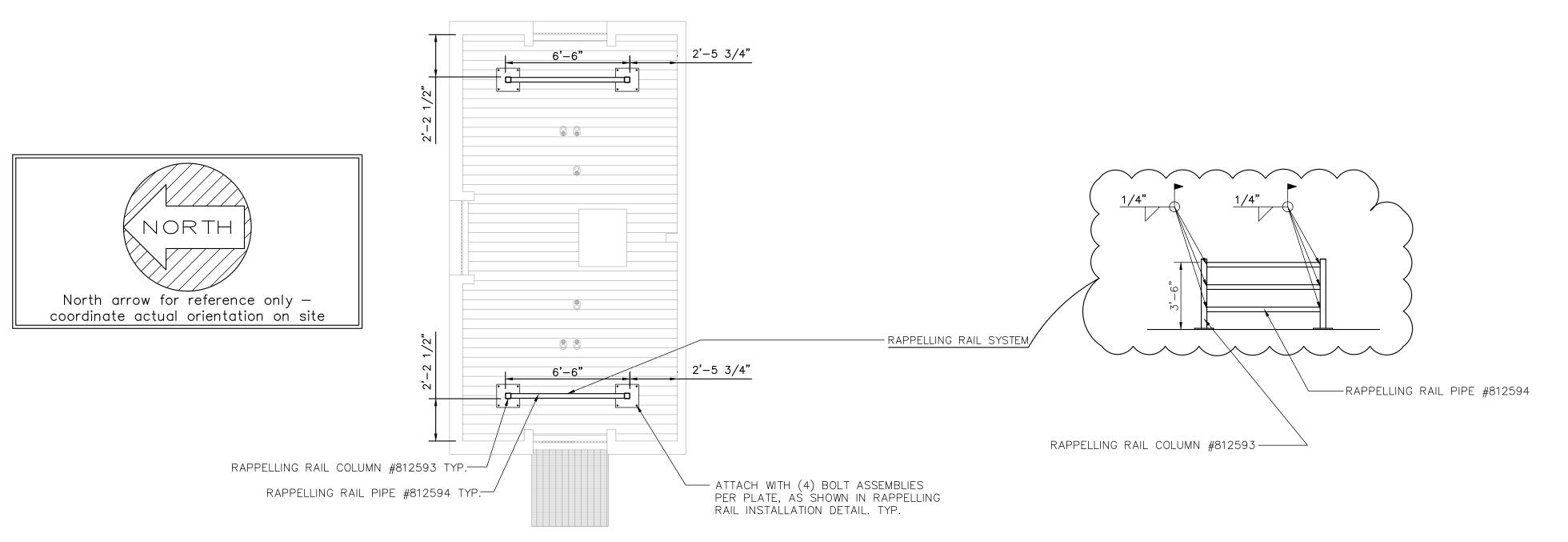
REVISIONS

AUGUST 13, 2021 Drawn by: GWL

Checked by:

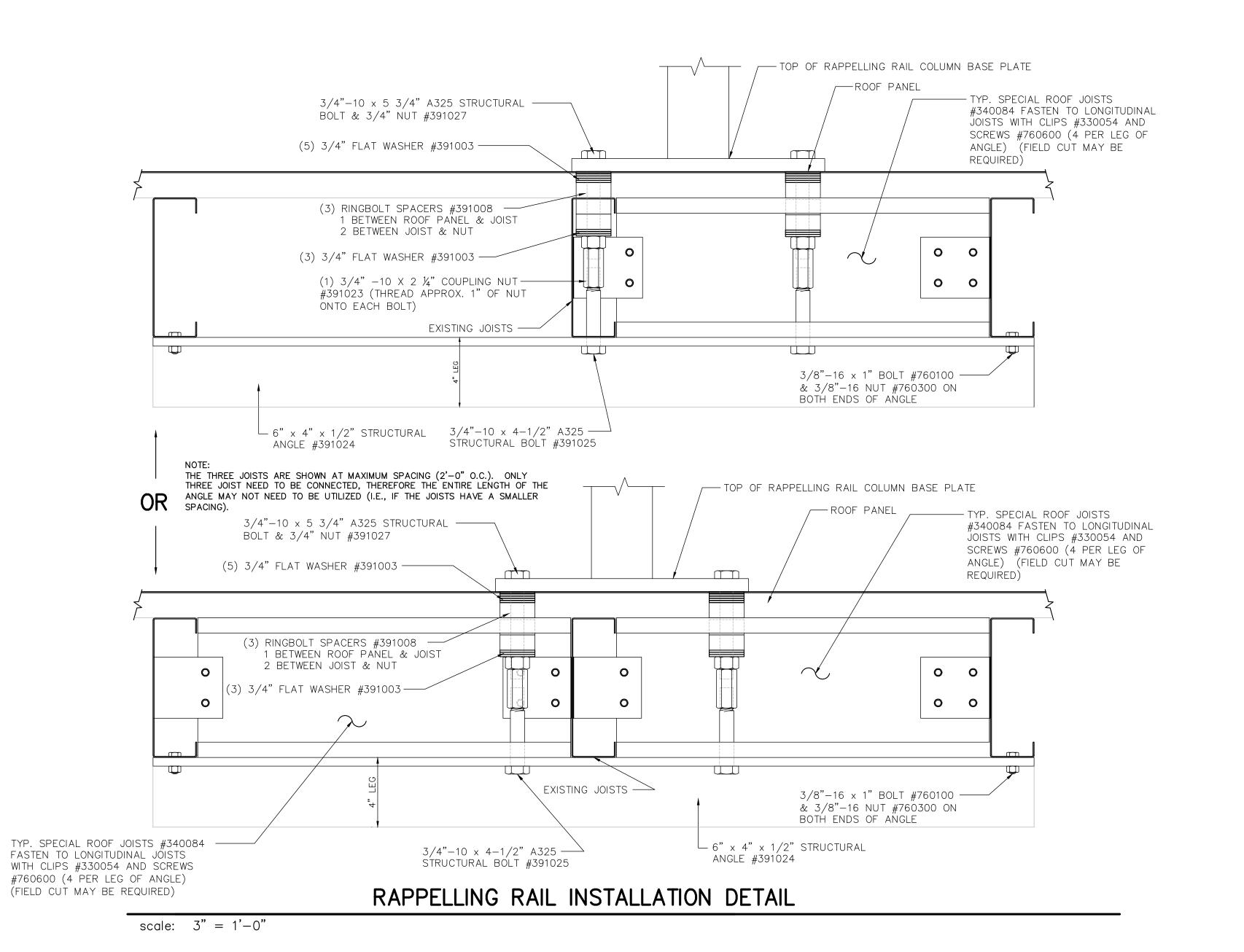
TTS-108/#238355

Sheet No. 21 of 23



# TOWER ROOF PLAN (RAPPELLING RAIL)

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

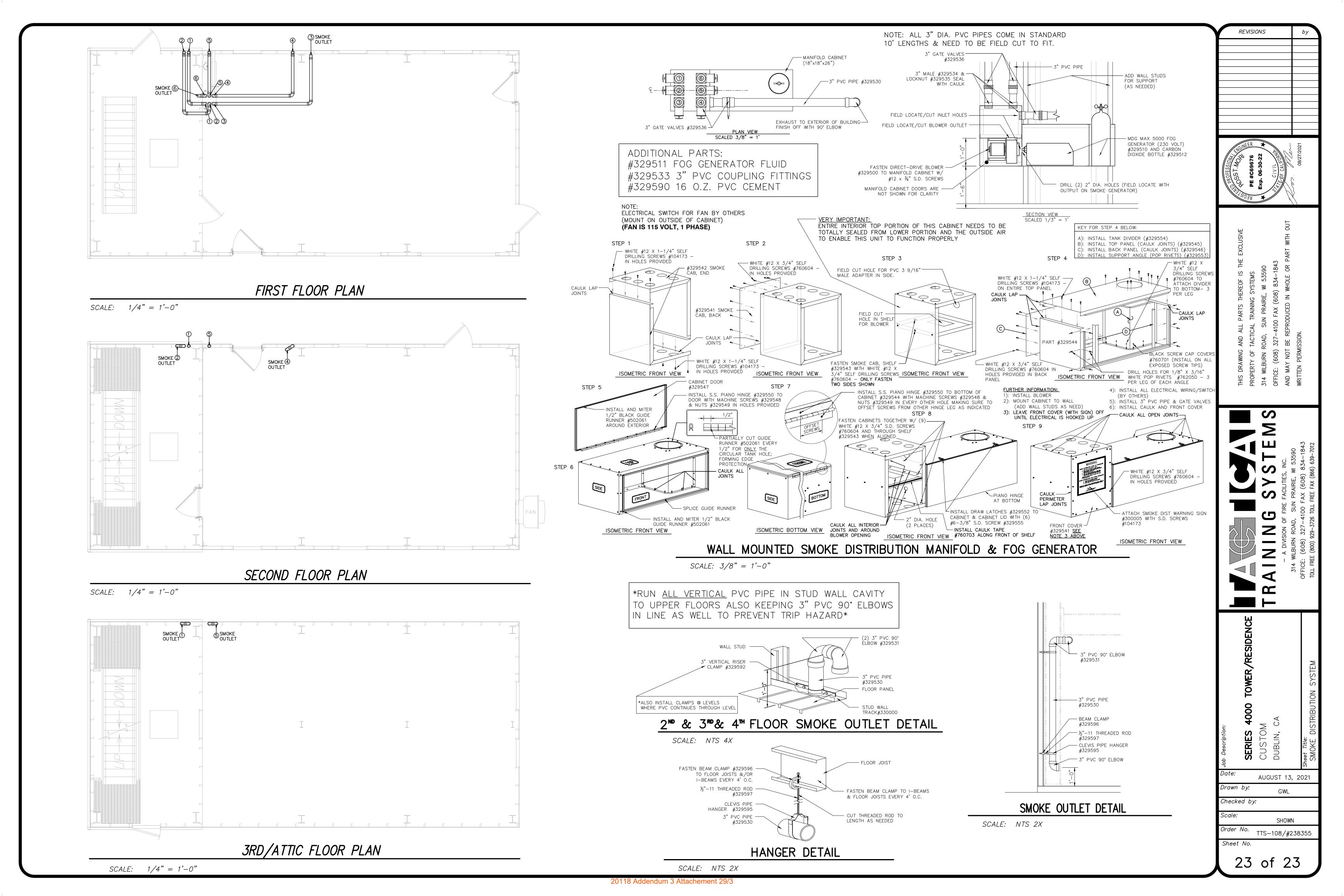


SERIES 4000 CUSTOM DUBLIN, CA

AUGUST 13, 2021 Drawn by:

Checked by: SHOWN

TTS-108/#238355 Sheet No.



# ALAMEDA COUNTY TACTICAL TRAINING TOWER FOUNDATION

DUBLIN, CA



08-06-2021

SYMBOLS

A.B.	Anchor Bolt	F.O. STUD	Face of Stud	PLF	Pounds per Linear Foot
ACI	American Concrete Institute	FRMG	Framing	PLY	Plywood
A.D.	Area Drain	F.S.	Far Side	PLYWD	Plywood
ADDL	Additional	FT	Foot or Feet	P.J.P.	Partial Joint Penetration
ADJ	Adjacent	FTG	Footing	PSF	Pounds per Square Foot
A.F.F.	Above Finish Floor			PSI	Pounds per Square Inch
AISC	American Institute of Steel Construction	GA	Gage	PSL.	Parallel Strand Lumber
ALT	Alternate	GALV	Galvanized	P/T	Post - Tensioned
APPROX	Approximately	G.B.	Grade Beam	P.T.	Pressure Treated
ARCH	Architect or Architectural	GLB	Glued Laminated Beam	P.T.D.F.	Pressure Treated Douglas Fir
ASPH ASTM	Asphalt	GLC GR	Glued Laminated Column Grade	R	Radius
ASTIVI A.C.	American Society for Testing and Materials	GYP		R.D.	Roof Drain
A.O.	Asphaltic Concrete, Air Condition	GIF	Gypsum	RDWD	Redwood
BAL	Balance	HDR	Header	REF	Reference
B.L.	Bottom Lower	HGR	Hanger	REINF	Reinforcing
BLDG	Building	HK	Hook	REQD	Required
BLK	Block	HORIZ	Horizontal	REV	Revision
BLKG	Blocking	H.P.	High Point	RF	Roof
BM	Beam	H.R.	Hard Rock	RM	Room
B.O.	Bottom of	HSS	Hollow Structural Section	R.O.	Rough Opening
BOT	Bottom	HT	Height		
B.P.	Break Point			S	Section Modulus
BRD	Board	1	Moment of Inertia	S.A.D.	See Architectural Drawings
BRG	Bearing	I.D.	Inside Diameter	S.C.D.	See Civil Drawings
BRKT	Bracket	I.F.	Inside Face	SCHED	Schedule
BTWN	Between	INFO	Information	S.E.D.	See Electrical Drawings
B.U.	Bottom Upper	INSUL	Insulation	SF	Square Feet
0	Charried	INT	Interior	SHT	Sheet
C CBC	Channel Colifornia Building Code	JST	laiat	SHTG SIM	Sheathing
C.I.P.	California Building Code Cast In Place	JT	Joist Joint	S.J.	Similar Shrinkage Joint, Seismic Joint or Slip Joint
C.J.	Construction or Control Joint	01	Joint	S.L.D.	See Landscape Drawings
CLG	Ceiling	KIPS	1000 Pounds	S.M.D.	See Mechanical Drawings
CL	Center Line	KSF	KIPS Per Square Foot	S.M.F.	Special Moment Frames
CLR	Clear		· ··· · · · · · · · · · · · · · · · ·	S.M.S.	Sheet Metal Screw
CMU	Concrete Masonry Unit	L	Angle	S.O.G.	Slab On Grade
COL	Column	LBS	Pounds	SP	Space or Spacing
CONC	Concrete	LL	Live Load	S.P.D.	See Plumbing Drawings
CONN	Connection	LLH	Long Leg Horizontal	SPEC	Specification
CONSTR	Construction	LLV	Long Leg Vertical	SQ.	Square
CONTIN	Continuous	LONGIT	Longitudinal	S.S.D.	See Structural Drawings
C.J.P.	Complete Joint Penetration	L.P.	Low Point	STAGG	Staggered
CTR	Center	L.S.	Low Shrinkage	STD	Standard
CTRONIC	Centered	LSL	Laminated Strand Lumber	STIFF	Stiffener
CTRSNK	Countersink	LT	Light	STL	Steel
٦	Donny weight	LVL LTWT	Laminated Veneer Lumber	STRUCT	Structural
d DBL	Penny weight Double	LIVVI	Light Weight	SYM	Symmetric
DEPR	Depression	MACH	Machine	Т & В	Top and Bottom
D.F.	Douglas Fir	MAS	Masonry	T & G	Tongue and Groove
DIA or	Diameter	MATL	Material	T.B.	Tie Beam
DIAG	Diagonal	MAX	Maximum	THK	Thick
DIM	Dimension	M.B.	Machine Bolt	THRU	Through
DL	Dead Load	MC	Miscellaneous Channel	T.L.	Top Lower
DN	Down	M.D.	Mid - depth	T.O.	Top Of
do	Ditto	MECH	Mechanical	T.O.T.S.	Top of Topping Slab
D.W.F.	Deformed Wire Fabric	M.F.	Moment Frame	T.O. CONC	Top of Concrete
DWG	Drawing	MFR	Manufacturer	T.O. PAR	Top of Parapet

Not Applicable

No Profile

Near Side

Not To Scale

On Center

Parapet

Precast

Outside Face

Opposite Hand

Oriented Strand Board

Open Web Steel Girder

Pound per Cubic Foot

Powder Driven Fastener

Property Line or Plate

Powder Driven Pin

Open Web Steel Joist

N.S.

O.W.S.J.

Not In Contract

T.O. SLAB

VENT

VERT

Tube Steel

Top Upper

Vapor Barrier

Verify In Field

With

Without

Wide Flange

Work Point

Weakened Plane Joint

Weight or Structural T

Welded Wire Fabric

Uniform Building Code

Unless Noted Otherwise

**ABBREVIATIONS** 

Each

Each Face

Elevation

Embedment Edge Nail

Enclosure

Edge of

Each Way

Expansion

Foundation

Face of

F.O. CONC Face of Concrete

F.O. MAS Face of Masonry

Finish Floor

Exterior

E.O. SLAB Edge of Slab

Edge of Masonry

**ENGR** 

E.O. PL

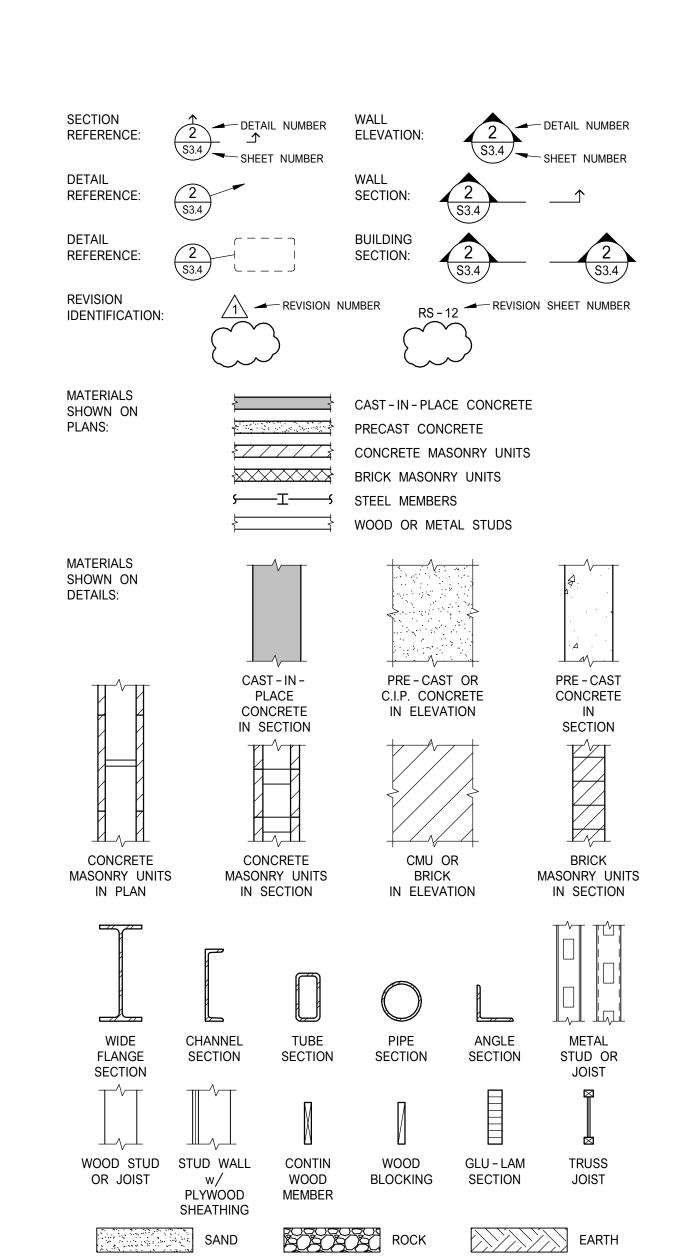
E.O.

EQPT E.W.

EXT

FDN

FLR



#### <u>GENERAL</u>

Dimensions refer to rough concrete surfaces, face of studs, face of concrete block, top of sheathing, or top of slab, unless otherwise indicated. The Contractor shall verify all dimensions prior to the start of construction. The Architect shall be notified of any discrepancies or inconsistencies.

All drawings are considered to be a part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the Architect prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any code requirements shall be corrected by the Contractor at his own expense and at no expense to the owner or Architect.

Notes and details on the structural drawings shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar

All work shall conform to the minimum standards of the following codes:

2019 California Building Code, which comprises Title 24, Part 2 of the California Code of Regulations, as adopted by the California Building Standards Commission referred to here as "The California Building Code, 2019 Edition" or "the code", and any other regulating agencies which have authority over any portion of the work, including the State of California Division of Industrial Safety, and those additional codes and standards including, but not limited to, the following incorporated codes listed below, and in these structural notes and specifications.

American Society of Civil Engineers: ASCE 7-16 Minimum Design Loads for Buildings and Other Structures including Supplement No. 1 and 2.

American Concrete Institute (ACI): ACI 318-14 Bldg. Code Requirements for Structural Concrete and Requirements for Structural Concrete and Commentary

American Institute of Steel Construction (AISC): Steel Construction Manual 15th Edition

American Institute of Steel Construction (AISC): AISC 341-16 Seismic Provisions for Structural Steel Buildings

American Institute of Steel Construction (AISC): AISC 360-16 Specification for Structural Steel Buildings

American Welding Society: AWS D1.1:2015 Structural Welding Code - Steel

American Welding Society: AWS D1.3:2008 Structural Welding Code - Sheet Steel

American Welding Society: AWS D1.4:2017 Structural Welding Code - Reinforcing

American Welding Society: AWS D1.8:2016 Structural Welding Code - Seismic Supplement ASTM specifications on the structural drawings shall be of the latest version, unless

Refer to the architectural drawings for the following:

otherwise noted.

Dimensions not shown on the structural drawings.

Size and location of all floor and roof openings, except as noted.
Size and location of all interior and exterior non-bearing partitions.
Size and location of all door and window openings, except as noted.
Size and location of inserts for cladding or ornamentation.

Size and location of all concrete curbs, equipment pads, pits, floor drains, slopes, depressed areas, change in level, chamfers, grooves, inserts, etc. Floor and roof finishes.

Refer to the mechanical, plumbing, and electrical drawings for the following:

Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc., except as noted.

Electrical conduit runs, boxes, and outlets in walls and slabs.

Concrete inserts for electrical, mechanical, or plumbing fixtures. Size and location of machine or equipment bases or anchor bolts for motor mounts.

The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing and shoring for loads due to construction equipment, etc. Observation visits to the site by the Engineer shall not include inspection of the aforementioned items.

Contractor shall investigate the site, during clearing and earthwork operations, for filled excavations or buried structures, such as cesspools, cisterns, foundations, etc. If any such structures are found, the Engineer shall be notified immediately.

Openings, pockets, etc., larger than 6" shall not be placed in concrete slabs, decks, or walls, unless specifically detailed on the structural drawings. Notify the Engineer when drawings by others show openings, pockets, etc., larger than 6" not shown on the structural drawings, but which are located in structural members. For any further restrictions on openings in structural elements, see applicable sections below.

Construction material shall be spread out if placed on framed roof or floor. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where the structure has not attained the design strength.

Specifications and detailing of all waterproofing and drainage items, although sometimes indicated on the structural drawings for general information purposes only, are solely the design responsibility of others.

Shop drawings, special inspections, and material sampling and testing, when required, are specified in their respective tables in the general notes and in the specifications.

# <u>DESIGN</u>

Design conforms to the California Building Code, 2019 Edition

Live loads: Roof (flat) ...... 100 psf

Wind Analysis:

 Basic wind speed, V3S
 (CBC Figure 1609)
 VULT = 92 mph

 Exposure
 (CBC Section 1609.4.3)
 = C

 Internal Pressure Coefficient, GCPI
 (ASCE Table 26.13-1)
 GCPI = ±0.18

 Seismic Analysis:
 Seismic Importance Factor, I
 (ASCE Table 1.5-2)
 I = 1.0

 Risk Category
 (CBC Table 1604.5)
 = II

 Site Location, Latitude
 38.6990°

 Site Location, Longitude
 -122.8368°

 Spectra Accel., Short Period, SS
 (CBC Figure 1613.2.1(1))
 SS = 1.614 g

 Spectra Accel., Long Period, S1
 (CBC Figure 1613.2.1(2))
 S1 = 0.60 g

Site Classification  $\dots$  (CBC Section 1613.2.2) = D

Design Response, Short Period, SDS..... (CBC Section 1613.2) SDS = 1.076 g
Design Response, Long Period, SD1 ..... (CBC Section 1613.2) SD1 = NULL

Response Modification Factor, ...... R = 3.5 System Overstrength Factor, .....  $\Omega$ 0 = 3 Deflection Amplification Factor ..... Cd = 3

Lateral System (ASCE Table 12.2-1).... Building Frame System Steel Ordinary Concentric Braced Frame Response Modification Factor, ...... R=3.25

#### **FOUNDATIONS**

Passive earth pressure

Foundations conform to the recommendations of the Geotechnical Report entitled: "ASCO RTC Tower Project 5301 Madigan Road Dublin, California" prepared by Cal Engineering & Geology, dated December 2nd, 2019.

Maximum soil pressure = 4500 psf DL + LL

= 6000 psf DL + LL + Lateral

Coefficient of friction = 0.32

Refer to the Geotechnical Report for additional recommendations not listed below. All site grading, excavations, fills, and soil preparation shall conform to the Geotechnical Report and all work shall be done under the observation of the Geotechnical Engineer.

= 350 pcf

The Contractor shall provide for the design and installation of all cribbing, sheathing, and shoring required and shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all national, state, and local safety ordinances.

#### Footings

Footings shall extend to such depth as to bear upon firm, undisturbed native soil or engineered fill. All abandoned footings, utilities, etc. shall be removed. All footings shall be founded at a depth at least 24 inches below the lowest adjacent grade. Footing depths shown on the structural drawings are minimum depths. Footings may be poured in neat excavated trenches.

Excavations for footings shall be observed by the Geotechnical Engineer prior to placing reinforcing and concrete. The Contractor shall notify the Geotechnical Engineer when the excavations are ready for observation.

#### Engineered Fill

Engineered fill below footings shall be compacted to 90% relative compaction as determined by the ASTM D1557 compaction test method and under the observation of the Geotechnical Engineer.

#### <u>Slabs On Grade</u>

For the sub capillary break materials under concrete slabs on grade, refer to the Geotechnical Report. Provide a 15 mil vapor barrier complying with ASTM E1745 Class A with a WVTR less than or equal to 0.008 per ASTM E96, placed in accordance with ASTM E1643 over 4" rock course under slabs on grade. Rock course shall be rolled to a smooth surface.

#### <u>Backfill</u>

All excavations shall be properly backfilled. Do not place backfill behind retaining walls before the concrete or grout has attained full design strength. The Contractor shall brace or protect all building and pit walls below grade from lateral loads until the attaching floors are completely in place and have attained full strength. The Contractor shall provide for the design, permits, and installation of such bracing.

Footing backfill and utility trench backfill within the building area shall be mechanically compacted in layers in accordance with the Geotechnical Report and observed by the Geotechnical Engineer or Inspector. Flooding will not be permitted.

#### Geotechnical Engineer Observation Letter

The Geotechnical Engineer shall prepare a letter for the Building Department giving an opinion regarding conformance of the footing excavations, engineered fill compaction, subgrade preparation, and backfilling with the requirements contained in the Geotechnical

#### REINFORCING STEEL

Reinforcing Steel detailing, fabrication, and placement shall conform to the "California Building Code", Chapter 19; the "Manual of Standard Practice of the Concrete Reinforcing Steel Institute", latest edition; and the "Building Code Requirements for Structural Concrete and Commentary", ACI 318-14; unless otherwise noted.

#### <u>Standards:</u> Reinforcing steel shall conform to the following standards:

Deformed Bars, #3 ......ASTM A615, Grade 40 Deformed Bars, #4 and larger ......ASTM A615, Grade 60

Placing: All steel reinforcement shall be securely tied in place so as to maintain their exact position before and during the placement of concrete. Reinforcing steel shall be securely tied in place with #16 annealed iron wire. Bars in beams and slabs shall be supported on well-cured concrete blocks or approved plastic tipped metal chairs, as specified by CRSI Manual of Standard Practice, MSP-1. Accessories for epoxy-coated reinforcing, where shown on plans, shall be as noted in the Specifications. Wire fabric in slabs shall be securely fastened to supporting devices to maintain their position during concrete placement.

Lap bars 58 diameters, laps shall be staggered, for #3 to #6 bars unless otherwise noted

Lap bars 72 diameters, laps shall be staggered, for #7 to #11 bars unless otherwise noted

Mechanical splices: Where noted on plans, provide threaded couplers capable of developing at least 125% of the specified yield strength of the reinforcing steel. Couplers shall be Type 2, as per ACI 318-14 Section 18.2.7. Threaded Couplers shall be as manufactured by Erico Company, or approved equal with a current evaluation report from an approved source.

Headed Reinforcement: Where noted on plans, provide rebar terminators capable of developing the tensile strength of the reinforcing steel. Rebar terminators shall be as manufactured by Erico Inc (IAPMO ES ER-0188) or approved equal with a current evaluation report from an approved source.

Form Saver: Form savers are to be used where noted on the drawings. In addition, form savers may be substituted in lieu of dowels at construction joints. Where substituted, contractor to submit for review prior to construction. Form savers shall be capable of developing at least 125% of the specified yield strength of the reinforcing steel. Form savers shall be Type 2, as per ACI 318-14 Section 18.2.7. Form Savers shall be as manufactured by Erico Inc (IAPMO ES ER-0129) or approved equal with a current evaluation report from an approved source.

Welding: Where welding of reinforcing bars is approved by the Engineer, it shall be done by AWS certified welders using E80XX or approved electrodes. Welding procedures shall conform to the requirements of the "Structural Welding Code - Reinforcing Steel", AWS-D1.4

Clear distances, steel to forms, unless noted otherwise:

Shop drawings shall be submitted to the Architect for review prior to fabrication. Shop drawings shall include elevations of all beams and columns showing bar and lap locations. See Shop Drawing Submittal Requirements elsewhere in General Notes. Submit mill certificates for reinforcing steel prior to rebar placement.

#### CONCRETE WORK

Forms shall be properly constructed conforming to concrete surfaces as shown on the drawings, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed to support the concrete. Forms for exposed concrete shall be plywood, using sheets as large as possible, with all joints tightly fitted and blocked, and shall produce a finished concrete surface which is smooth, true, and free from blemishes according to accepted standards for architectural concrete.

Refer to architectural, electrical, and mechanical drawings for details at door and window openings, floor type hinges, etc., and for location of sleeves, pipes, and other embedded items. Openings through slabs or walls not shown on the structural drawings which would interrupt reinforcing bars shall not be made without approval of the Architect.

Debris should be entirely removed from forms prior to concrete placement.

Horizontal construction joints shall be located as shown on the structural drawings, and the hardened concrete surfaces shall be cleaned by sand-blasting or other approved means to expose firmly embedded aggregates prior to pouring additional concrete in contact with these surfaces. Vertical construction joints through beams or slabs shall be located only as shown on structural drawings.

Forms and shoring shall not be removed until the concrete has attained sufficient strength to withstand all loads to be imposed without excessive stress, creep, or deflection. See specifications for shoring requirements.

Concrete shall be ready mixed conforming to ASTM C94. Cement shall be Portland Cement Type II, conforming to ASTM C150. All hardrock (H.R.) concrete used in suspended slabs and slabs on grade shall be designed for low shrinkage (L.S.). Acceptable coarse aggregates for low shrinkage concrete include Kaiser Clayton, Granite Rock, Limestone, Sechelt, or Orcas aggregates. Fine aggregates acceptable for low shrinkage concrete include Sechelt, Orcas, or Granite Rock sands. Alternative aggregates may be submitted provided they provide a concrete mix with a shrinkage limitation of 0.040% after 28 days of drying. Submit test data to Architect for review.

#### Use maximum size aggregate as noted below.

Use 3/8" maximum aggregate where necessary for proper placing, such as in thin or congested sections, etc. Superplasticizers may be used to improve workability in thin or congested sections. Incorporate superplasticizers into concrete mix designs.

Flyash shall consist of pozzolanic admixtures conforming to ASTM C618, Class F, and shall be used in quantities noted below. See specifications for additional requirements.

Ground Granulated Blast Furnace Slag (GGBFS) shall conform to ASTM C989 for slag cement and be used in quantities noted below. See specifications for additional requirements. Carbon Sequestration shall consist of post-industrial, recycled CO2, sourced from an emitter and chemically mineralized into the mix. See specifications for additional requirements.

Admixtures used in concrete shall conform to the following ASTM standards, shall be used in dosages recommended by the manufacturer, and shall not contain more chloride than is found in the municipal drinking water supply. Liquid volume in ASTM C494, Type C admixtures shall be added to water content and water cement ratio calculations.

ASTM C494, Type A Mid-range water reducers ASTM C494, Type A/F High-range water reducers ASTM C494, Type F Hydration Stabilizers (Retarders) ASTM C494, Type B and D Accelerators ASTM C494, Type C Air Entraining Agents ASTM C260 Corrosion Inhibitors ASTM C494, Type C Shrinkage Reducing Admixtures ASTM C494, Type F Viscosity Modifying Admixtures ASTM C494, Type S Silica Fume ASTM C1240 Crystalline Waterproofing No ASTM standard Post-Industrial, recycled CO<sub>2</sub> ASTM C494, Type S

Cementitious Material (CM) content includes all cement and Supplemental Cementitious Materials (SCM)

Contractor shall submit for review of the Architect the concrete mixes proposed for use, designed by the concrete supplier and reviewed by an approved testing laboratory.

# Concrete shall have the following characteristics: (Mix with GGBFS and 56 day strengths, 50% SCM)

Concrete Location	Max Aggregate	Strength @ 56 days (psi)		MIII CM	GGBFS Content <sup>5</sup> Min, Max (%)	Content <sup>5</sup>	SCM Content	Concent	Cement
Foundations <sup>4</sup>	1"x#4 HR	3000	4	5.0	40,50	20,30	70	34	0.50
Slab on grade <sup>4</sup>	1"x#4 HR-LS	3000	3.5	5.0	40,50		70	33	0.45

- NOTES:
  <sup>1</sup> Slump shall be the minimum consistent with proper placing. Achieve slump with water
- reducing admixtures (ASTM C-494 Type A, F, or A/F) for desired workability.  $^{2}$  Use high range water reducing admixture (superplasticizer) as needed.
- Use water reducing admixtures or mid-range water reducing admixtures for desired workability.
   Use recycled carbon dioxide (CO2) sourced from an emitter, chemically mineralized into
- concrete mix. Use 2.0% 4.0% CO2 by weight of cement (not cementitious).

  <sup>5</sup> Percentages of GGBFS and Flyash may be individually adjusted within the limits provided in order to maintain total SCM content

Pipes other than electrical conduits shall not be embedded in structural concrete except where specifically approved by the Engineer. Electrical conduits embedded in concrete shall not exceed 1-1/4" 0.D., without approval of the Engineer.

Conduit, when embedded in concrete slabs, shall be spaced with one conduit diameter clear (larger conduit) or 1 inch clear, whichever is greater, between adjacent conduits or rebar. Conduit shall not be located directly over and parallel to rebar. Embedded conduit can be tied to rebar when oriented perpendicular to them, provided the location of rebar is not affected by the conduit. Conduit without clearance noted above shall be submitted to the architect for review prior to installation. Added trim reinforcement will be required where clearances cannot be met, such as electric panel rooms.

Sleeves, when installed in concrete, shall be spaced with one sleeve diameter (larger sleeve) clear between adjacent sleeves, rebar, or 1 inch, whichever is greater. Sleeves may not touch rebar or other support hardware. Provide clearance between sleeves and reinforcing for typical slab edge conditions. Added trim reinforcement is required per the typical slab opening detail when sleeves exceed 12" diameter or are placed in groups where the out-to-out dimension exceeds 12" in any direction. Sleeve placement shall not interfere with the rebar placement without the approval of the Engineer.

A Sleeve/Penetration Slab Shop drawing shall be submitted for review prior to fabrication. Shop drawings shall include all concrete sleeves, penetrations, and openings, from all disciplines, coordinated, dimensioned and located on plan. See Shop Drawing Submittal Requirements elsewhere in General Notes.

The Contractor shall inform the Architect at least 3 days prior to pouring any structural concrete so that the Architect may have the opportunity of reviewing the work prior to concrete placement.

All concrete except slabs on grade 6" thick or less shall be mechanically vibrated so as to completely fill the forms without causing undue segregation.

For 56 day strengths and 4" diameter x 8" long cylinders:

For mild reinforced concrete, 6 test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, one at 28 days for information, and three at 56 days for acceptance, and one held in reserve.

## For 56 day strengths and 6" diameter x 12" long cylinders:

For mild reinforced concrete, 5 test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, one at 28 days for information, and two at 56 days for acceptance, and one held in reserve.

The Contractor shall remove and replace any concrete which fails to attain specified strength in 56 days if so directed by the Architect. Any defects in the hardened concrete shall be replaced.

#### STRUCTURAL STEEL AND MISCELLANEOUS IRON

#### <u>Anchor Bolts</u>

Unless otherwise noted, all steel to steel bolted connections shall be bolted with high strength bolts per the "Specification for Structural Joints Using ASTM A325 or A490 Bolts", by the Research Council on Structural Connections (RCSC).

1. Unless noted otherwise, anchor bolts and/or anchor rods shall conform to ASTM F1554 Grade

#### PREFABRICATED STRUCTURE

The prefabricated structural design shall be prepared in conformance with CBC requirements and signed by a Civil or Structural Engineer licensed in the State of California.

#### LOW VELOCITY PINS (L.V.P.)

Provide Powder Actuated Fasteners with low velocity charges of size and spacing shown, where L.V.P. is noted on the drawings. The fasteners shall be Hilti X-U as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-2269) or approved equal with a current evaluation report from an approved source.

#### EPOXY FOR CONCRETE

Epoxy shall be HIT-HY 200 as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-3187). All drilled holes shall be sized according to the manufacturer's recommendations.

#### EXPANSION ANCHORS

Expansion Anchors shall be KB-TZ2 as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-4266) or approved equal with a current ICC report. All drilled holes shall be sized according to the manufacturer's recommendations.

#### <u>HIGH STRENGTH SCREW ANCHORS</u>

High-Strength Screw Anchors shall be Titen HD as manufactured by Simpson Strong Tie, Inc. (ICC Evaluation Report ESR-2713) or approved equal with a current ICC report. All drilled holes shall be sized according to the manufacturer's recommendations.

#### SHOP DRAWING SUBMITTALS

When indicated with a "X", the following items shall have either a) shop drawings or b) certificates of conformance or c) shop drawings, calculations, and details submitted to the architect for review and approval prior to fabrication. When shop drawings, calculations, and details are required, submittals (drawings and calculations) must be signed and stamped by a Civil or Structural Engineer registered in the State of California. For additional information on the contents of the submittals, refer to the project specifications and the specific general notes sections. Submit two prints or an electronic (PDF copy) of calculations (where indicated) and shop drawings to the Architect for review.

	Shop	Certificate¹	Shop Dwgs, calcs, and	
Item	Drawings		Details	Remarks
Concrete reinforcing	Х			
Concrete, mixes	Х			
Concrete, cement		Х		
Concrete, fine aggregates		Х		
Concrete, coarse aggregates		Х		
Concrete, admixtures		Х		
Weaken Plane Joint Layout	Х			
Shrinkage Joint Layout	Х			
Construction Joint Layout	Х			
Concrete Penetration Plan	X			Plan with sleeves /blockouts coordinated, dimensioned, 8
Expansion Anchors	Х			located
Epoxy for Bolts or Rebar	Х			
Screw Anchors	Х			
Low Velocity Pins, L.V.P.	Х			

(1) Certificates shall be dated within 3 months of the submittal.

## MATERIAL SAMPLING AND TESTING

When indicated with a "X", the following materials shall be sampled and/or tested by a certified inspector from an established testing agency in accordance with the project specifications, general notes, or prevailing building code, whichever is more stringent. All material sampling and testing shall be performed in accordance with ASTM requirements. For additional information on material sampling and testing, refer to the project specifications and the specific general notes sections. The testing agency shall send copies of all structural testing reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Concrete, reinforcing	Х	Mill certificate in lie of samples
Concrete, cylinders	Х	

# SPECIAL INSPECTION

When indicated with a "X", the following items shall be inspected in accordance with CBC Section 1705 by a certified special inspector from an established testing agency. All inspection shall be continuous, unless otherwise noted. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications, and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item		Required	Remarks
Rebar Placement		Χ	Periodic
Concrete Placement		Χ	Continuous
	•		



275 Battery Street, Suite 1050 San Francisco, California 94104 Ph: 415-233-9991 Fax: 415-651-8911 www.ae3partners.com



San Francisco, CA 94105
415.989.1004 | kpff.com

david.rossi@kpff.com

brian.biehl@kpff.com

Day-to-Day Contact:



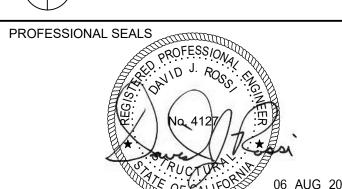


General Services Agency Capital Programs 1401 Lakeside Drive Oakland CA, 94612

YYYY-MM-DD

NO. ISSUE/REVISION

REY PLAIN



	No. 412	
	OF CALIFORNIA	06 AUG 2 DATE SIGN
FACILITY		

PROJECT
ALAMEDA COUNTY TACTICAL TRAINING
TOWER FOUNDATION

DRAWN BY REV'D BY SHEET NUMBER

KA BB

PROJECT NUMBER

2100123.00

DATE

08-06-2021

SHEET TITLE

**GENERAL NOTES** 

S-101

			T	
LOAD CASE	COLUMN	SHEAR (KIPS)	DOWNWARD (KIPS)	UPLIFT (KIPS)
	A1,B1	3.46	12.76	15.48
14//15	A2,B2	3.48	11.33	17.25
WIND	A3,B3,A4,B4	2.08	1.82	6.05
	A5,B5	1.04	0.91	3.01
	A1,B1	0.14	5.11	0.00
DEAD	A2,B2	0.35	11.63	0.00
DEAD	A3,B3,A4,B4	0.19	9.75	0.00
	A5,B5	0.16	6.48	0.00
	A1,B1	0.70	27.47	0.00
LIVE	A2,B2	1.51	49.51	0.00
LIVE	A3,B3,A4,B4	1.04	46.43	0.00
	A5,B5	0.52	26.08	0.00
	A1,B1	29.60	140.87	140.59
SEISMIC	A2,B2	29.75	139.40	139.14
SEIGIVIIO	A3,B3,A4,B4	7.75	17.16	17.06
	A5,B5	3.86	8.81	8.77

REACTIONS SHOWN ABOVE ARE INDIVIDUAL LOAD CASES WITH A LOAD FACTOR OF ONE (NO REDUCTIONS). THESE REACTIONS ARE BASED ON CBC 2019 WITH A BASIC WIND SPEED OF 92 MPH, EXPOSURE CLASS C, AND SEISMIC DESIGN CATEGORY D. PLEASE NOTE THAT THESE REACTIONS INCLUDE A SEISMIC REDUNDANCY FACTOR  $\rho\!=\!1.0$  AND OVERSTRENGTH FACTORS  $\Omega\!=\!2.0$  FOR OCBF AND  $\Omega\!=\!2.0$  FOR OMF. PLEASE ALSO NOTE THAT THESE REACTIONS ARE BASED ON THE FIRE TRAINING SIMULATOR SHOWN ON THE FIRE FACILITIES DRAWING DATED OR REVISED ON 02/01/2021.

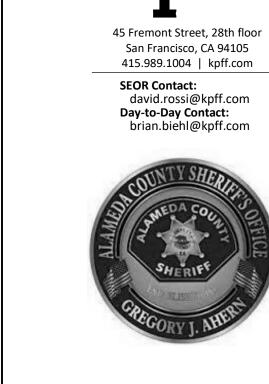
#### N/

- 1. FOR SYMBOLS AND ABBREVIATIONS, REFER TO SHEET S-001 FOR GENERAL NOTES, REFER TO SHEET S-101 FOR FOUNDATION DETAILS, REFER TO SHEET S-301
- 2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO
- START OF CONSTRUCTION.

  3. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL
- INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.

4. FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.

- 5. SHORING AND UNDERPINNING OF ADJACENT PROPERTY, WHEN REQUIRED, SHALL BE DESIGNED BY OTHERS.
- 6. TOP OF CONCRETE S.O.G. EL. = 0'-0", U.N.O.
- 7. F-1  $\leftarrow$  INDICATES FOOTING TYPE, SEE 5/S-301  $\leftarrow$  INDICATES TOP OF FOOTING ELEVATION, RELATIVE TO FINISHED FLOOR = 0'-0"
- 8. 'S.J.' INDICATES SHRINKAGE JOINT IN S.O.G., SEE 9/S-301 'W.P.J.' INDICATES WEAKENED PLANE JOINT IN S.O.G., SEE 9/S-301
- 9. 'GB-1' INDICATES GRADE BEAM, SEE SCHEDULE 8/S-301
- 10. 'BP-1' INDICATES BASE PLATE, SEE 14/S-301 & 15/S-301



AE3 PARTNERS
Architects + Project Managers

275 Battery Street, Suite 1050 San Francisco, California 94104

Ph: 415-233-9991

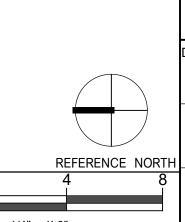
Fax: 415-651-8911

www.ae3partners.com



General Services Agency Capital Programs 1401 Lakeside Drive Oakland CA, 94612

NO.	ISSUE/REVISION	YYYY-M
KEY P	I AN	
	<b>-</b>	
z	<del>                                     </del>	
DBOE	ESSIONAL SEALS	
FRUF	ESSIONAL SEALS	IIIn
	PROFESSION LED IND J. ROS	ALUD
	Ext. NO " ROS	S. T. C.
	A.S. 10'	フ : !! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !



DRAWN BY REV'D BY SHEET NUMBER

KA BB

PROJECT NUMBER

2100123.00

DATE

08-06-2021

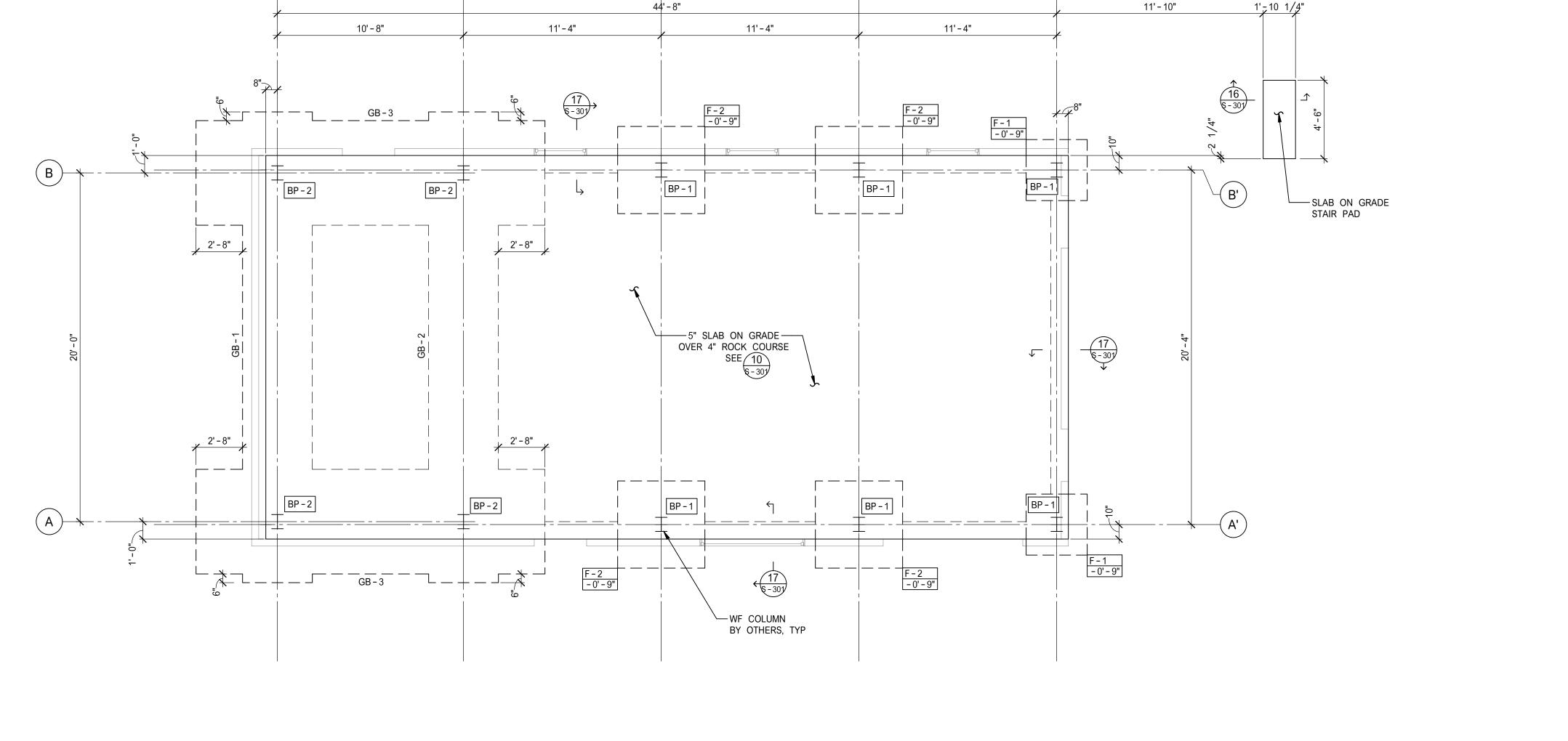
S-201

ALAMEDA COUNTY TACTICAL TRAINING TOWER FOUNDATION

PROJECT

SHEET TITLE

FOUNDATION PLAN

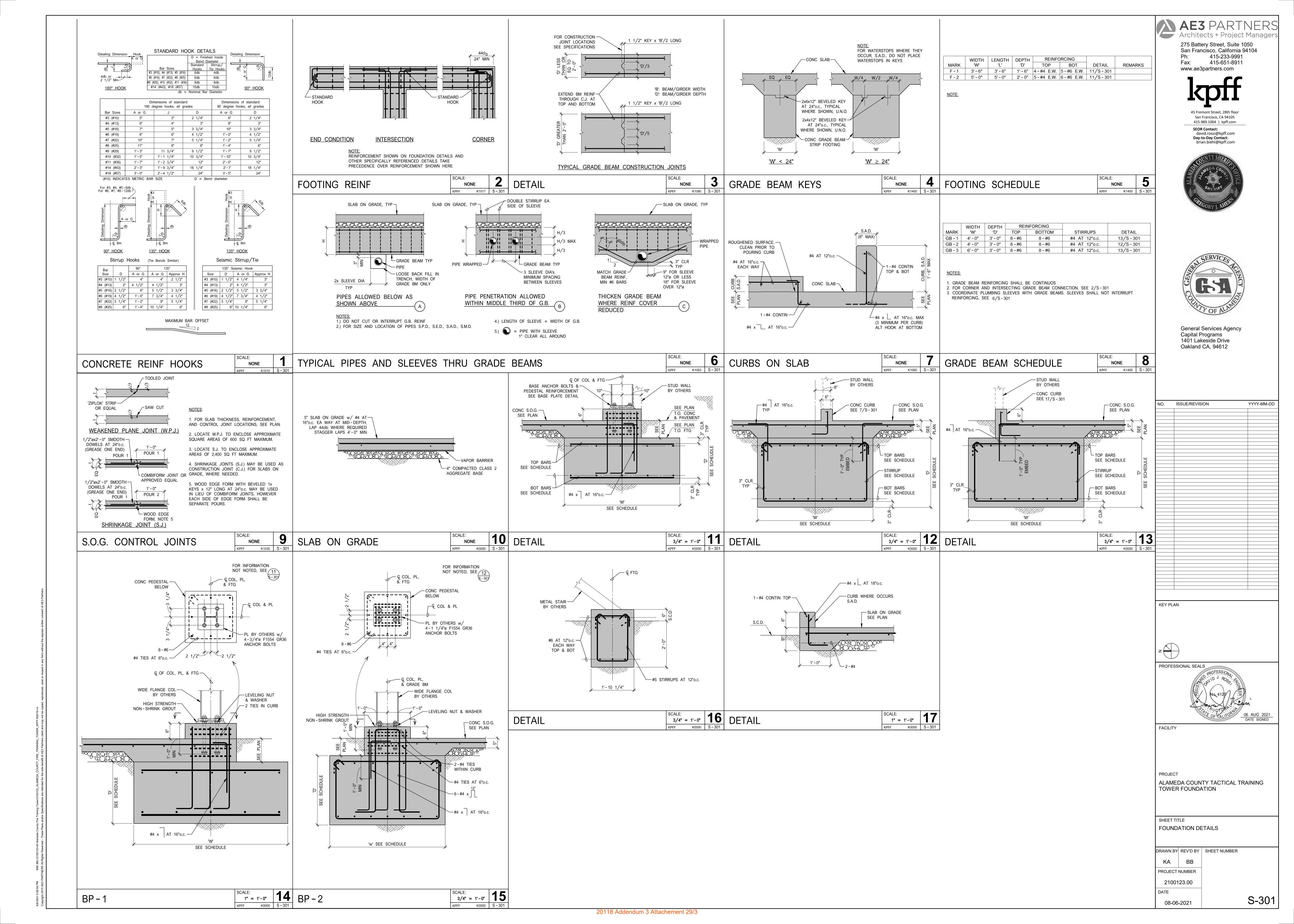


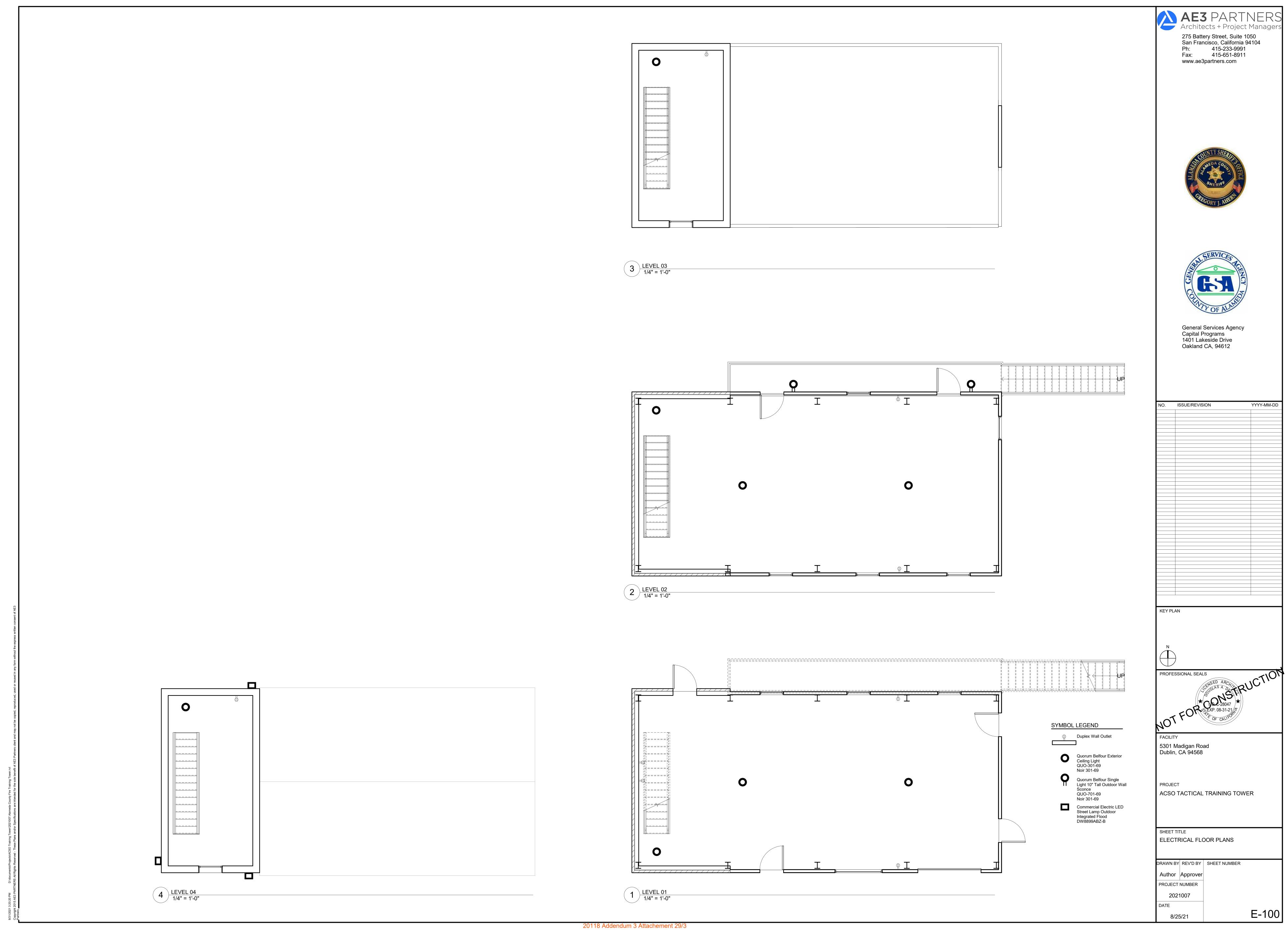
123-00 Alameda County Fire Training Tower/2100123\_ALAMEDA\_COUNTY\_FIRE\_TRAINING\_T Reserved - These Plans and/or Specifications are intended for the sole benefit of AE3 Partners

FOUNDATION PLAN

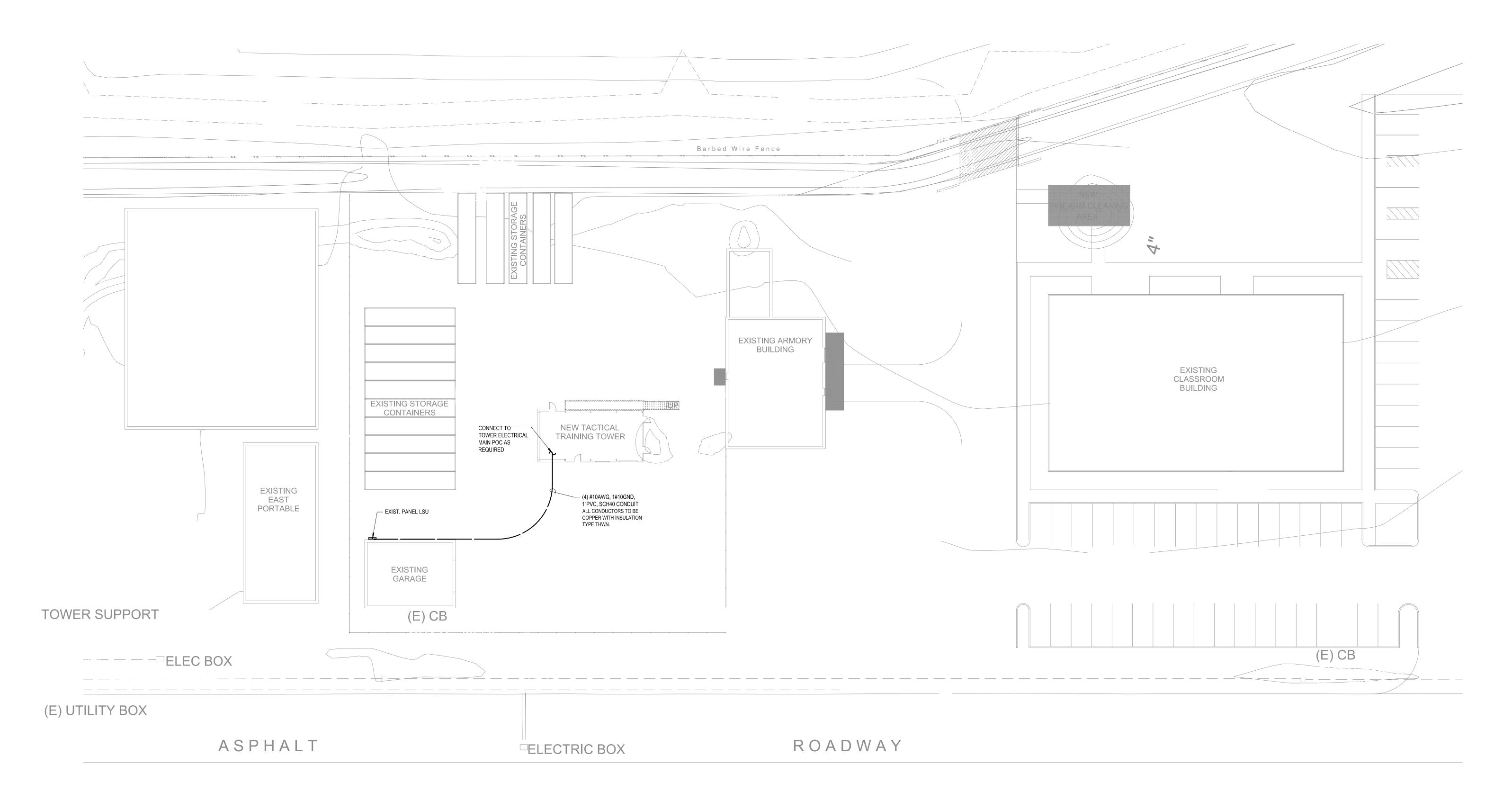
SCALE: 1/4" = 1'-0"

KPFF K0000 S-201





NO.	ISSUE/REVISION	YYYY-MM-E
KEY P	LAN	
N	_	
PROF	ESSIONAL SEALS	ERUCTIC
	CENSED ARCHI	CTIC
	CENSED ARCHI	ROU
	× Cyb.2-28047	
	EXP. 08-31-21	
	T FOI FOR CALIFOR	
νÓ	•	
NO		
<u> </u>		
FACILI	TY	
FACILI 5301	TY Madigan Road	
FACILI 5301	TY	



# EXISTING GENERAL SERVICES BUILDING

1 ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

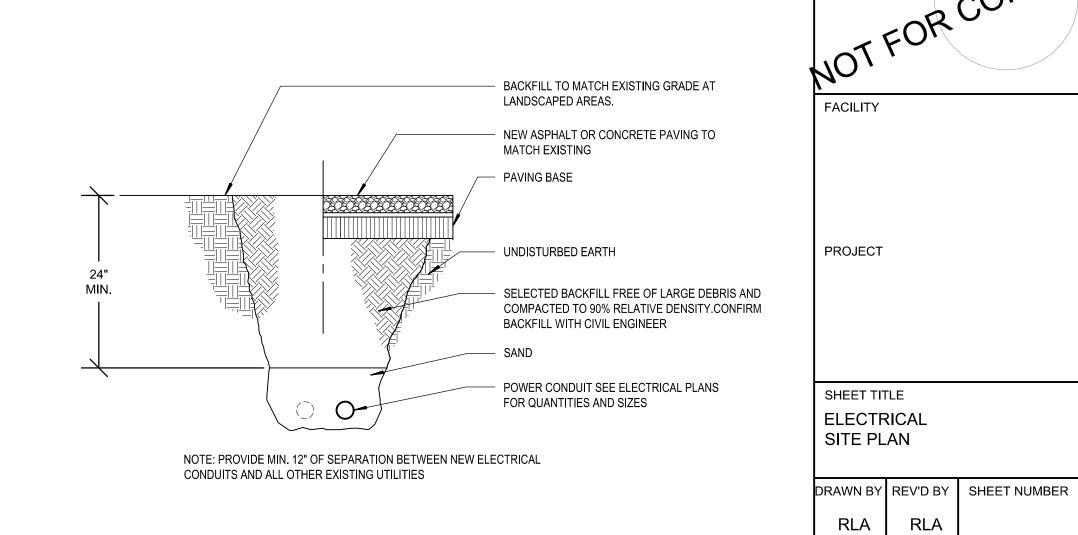
BRANCH CIRCUIT CONDUIT, CONCEALED IN FLOOR OR UNDERGROUND.

SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.

1.	ALL WORK SHOWN IS NEW UNLESS NOTED EXISTING.
2.	REMOVE ALL CONDUCTORS, DEVICES, AND CONDUIT RENDERED UNUSED BY THIS PROJECT.
3.	VERIFY CIRCUITRY OF EXISTING DEVICES TO BE REMOVED PRIOR TO DEMOLITION AND PERFORM SPLICES AS REQUIRED TO MAINTAIN CONTINUITY OF CIRCUITS TO EXISTING DEVICES TO REMAIN.
4.	SEAL ALL CONDUIT PENETRATIONS OF FLOORS AND FIRE RATED ASSEMBLIES WITH U.L. APPROVED MATERIALS AND METHODS TO MAINTAIN FIRE RATING.
5.	PROVIDE NEW TYPEWRITTEN DIRECTORIES REFLECTING WORK PERFORMED FOR ALL EXISTING PANELBOARDS MODIFIED BY THIS PROJECT.
6.	PROTECT ALL OPENINGS FOR STEEL ELECTRICAL BOXES IN FIRE RATED WALLS WITH U.L. APPROVED MATERIALS AND METHODS TO MAINTAIN THE FIRE INTEGRITY. (CBC 712.4.1.2).

IOUN	ITING	SURF	ACE		I	A	T	L	L		LO	O		-	10,0	000	A.I.C.	SYM
208/	120	VOLTS	3 PHASE	4	_ W	RE			M	AIN		100	A C		-		BUS	100 A
V	OLT AM	PS		R	L T	O L	B K	C I		C I	B K	O L	L T	R E		V	OLT AM	PS
ØΑ	ØB	ØС	DESCRIPTION	N C			R	R		R	R	E	G	C	DESCRIPTION	ØA	ØB	ØС
			Main			3	100	1	A	2	20	1		6	Ex. Lights & Plugs	1330		
						-	-	3	В	4	30	1			Ex. Siren		500	
						-	-	5	C	6	20	1						
750			Ex. Lights			1	20	7	A	8	30	2			AC Unit	1560		
	1080		Ex. Recepts	6		1	20	9	В	10		-					1560	
		1080	Ex. Recepts	6		1	20	11	C	12	20	1			Ex. Storage Cont.			500
			Ex. Spare			1	20	13	A	14	20	1			Ex. Storage Cont.	500		
			Ex. Spare			1	20	15	В	16	20	1			Ex. Storage Cont.		500	
			Ex. Spare			1	20	17	C	18	25	2			EF			1144
			Ex. Spare			1	20	19	A	20	-	-			1-1/2 HP	1144		
			Ex. Spare			1	20	21	В	22	20	1			Smoke machine		500	
			Ex. Spare			1	20	23	C	24	20	1			Ex. Spare			
			Ex. Spare			1	20	25	A	26	20	1			Ex. Spare			
			Ex. Spare			1	20	27	В	28	20	1			Ex. Spare			
			Ex. Spare			1	20	29	C	30	20	1			Ex. Spare			
750	1080	1080							A/LIN	Œ						4534	3060	1644
∂ A=	5284		Ø B= 4140										Ø C=	2724				
		CONT. LO	ADS										UOU	S LO	DADS			
2378	x0.25 =	594				kVA	32	40	X	1.00=	32	40	-					
RECEPTA															OTHER	7908	x1.00	7908
1000	x1.25=					_			0	).50=			-					
		TC	TAL DESIGN	kVA	=	13		T	OTA	L D	ESI	GN .	AM	PS=	48			

20118 Addendum 3 Attachement 29/3





AE3 PARTNERS
Architects + Project Managers

275 Battery Street, Suite 1050
San Francisco, California 94104
Ph: 415-233-9991
Fax: 415-651-8911
www.ae3partners.com

RANDALL LAMB
Integrated Services - MEP Engineering | Technical Services | Building Sciences |
SAN DIEGO - SAN FRANCISCO

500 Washington Street, Suite 200
San Francisco, CA 94111

Main (415) 512-9771

General Services Agency

Capital Programs
1401 Lakeside Drive

Oakland CA, 94612

ISSUE/REVISION

PROJECT NUMBER

08/06/2021

SF14268.00

Z