

1. BUILDING CODE - 2018 INTERNATIONAL BUILDING CODE
2. DESIGN LOADS:
- A. FLOOR LIVE LOADS
- a. FLOORS (NON-REDUCED) 40 PSF
- b. CORRIDORS, RAMPS, STAIRS & EXITWAYS 100 PSF
- c. STORAGE AREAS 125 PSF
- d. CONCENTRATED LOAD ON ELEVATED FLRS 2000 LBS
- e. CONCENTRATED LOAD ON STAIR TREADS 300 LBS
- B. WIND LOADS
- a. BASIC WIND SPEED (3 SECOND GUST) 105 MPH
- b. WIND IMPORTANCE FACTOR, I II
- c. OCCUPANCY CATEGORY II
- d. WIND EXPOSURE B
- e. INTERNAL PRESSURE COEFFICIENT +/- 0.18
- C. SEISMIC LOADS
- a. OCCUPANCY CATEGORY II
- b. SPECTRAL ACCELERATION $S_s = 0.482g$
 $S_1 = 0.167g$
- c. SEISMIC IMPORTANCE FACTOR, I 1.0
- d. SPECTRAL RESPONSE COEFFICIENTS
- SDS 0.420
- SD1 0.167
- e. SITE CLASS C
- f. SEISMIC DESIGN CATEGORY C
- g. BASIC SEISMIC-FORCE-RESISTING SYSTEM ORDINARY
- PLAIN MASONRY
- SHEAR WALLS
- 1 1/2
- 0.278
- 0.278W
- EQUIV. LAT. FORCE
- D. DEAD LOADS
- a. STRUCTURE 5 PSF
- b. MISC. UNDERHUNG MECHANICAL FLOOR STRUCTURE (INCLUDING UNDERHUNG) 105 PSF
- E. THE STRUCTURAL SYSTEMS SHOWN ON THESE DOCUMENTS HAVE BEEN DESIGNED FOR THE FINAL, IN PLACE USAGE OF THE STRUCTURE BASED ON THE INTENDED OCCUPANCY AND CODE REQUIREMENTS. WHILE GENERAL CONSTRUCTABILITY HAS BEEN CONSIDERED, THE STRUCTURAL SYSTEMS HAVE NOT BEEN DESIGNED TO ACCOMMODATE SPECIFIC CONSTRUCTION MEANS AND METHODS THAT MIGHT BE UTILIZED BY THE CONTRACTOR.
3. SPECIAL INSPECTIONS
- A. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE.
- a. REINFORCED CONCRETE CONSTRUCTION - LEVEL 1 INSPECTION
- b. CONCRETE DESIGN MIX
- c. PLACING OF REINFORCING STEEL
- d. FIBER REINFORCED POLIMER MATERIALS
- B. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.
4. STRUCTURAL ENGINEER SITE OBSERVATIONS
- A. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
- B. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF WALLACE DESIGN COLLECTIVE IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
5. REFERENCE THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
6. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OTHER PERTINENT INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED. THESE STRUCTURAL DRAWINGS ARE INTENDED TO BE INCLUDED IN A COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL DRAWINGS, CIVIL DRAWINGS, AND MECHANICAL/ ELECTRICAL/ PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY COORDINATION OF THESE DRAWINGS WITH CONTENTS OF ABOVE DRAWING SETS SPECIFIED AND ONLY PROCEED WITH BIDDING AND CONSTRUCTION AFTER SUCH HAS TAKEN PLACE.

7. CONCRETE:
- A. MINIMUM COMPRESSIVE STRENGTH (f_c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:
- a. INTERIOR SLABS-ON-GRADE 3000 PSI
- B. MAXIMUM WATER-CEMENT RATIO = 0.50 FOR SLABS-ON-GRADE
- C. SLUMP LIMITS = 5" +/- 1" (WITH ADMIXTURES = 8" +/- 1")
- D. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.
- E. CEMENTITIOUS MATERIALS CONTENT SHALL NOT BE LESS THAN 250 POUNDS PER CUBIC YARD. USE OF ANY FLY ASH IN FLOOR SLAB MIXES IS PROHIBITED.
- F. AGGREGATES SHALL COMPLY WITH ASTM C 33 AND SHALL BE FREE OF DELETERIOUS MATTER AND SHALL BE MADE OF COARSE LIMESTONE OR GRANITE AGGREGATES.
- G. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE. IF ADMIXTURES ARE UTILIZED, THEY SHALL BE COMPATIBLE WITH OTHER ADMIXTURES AND MUST NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE.
- H. REINFORCING STEEL SHALL MEET THE FOLLOWING:
- a. DEFORMED BARS A615, GRADE 60
- b. WELDABLE DEFORMED BARS A706, GRADE 60
- c. WELDED WIRE REINFORCEMENT A1094
- I. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
- J. REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING, FABRICATION, PLACEMENT AND SUPPORT PRACTICES, ACI 347 FOR FORMWORK, ACI 305 FOR HOT WEATHER CONCRETING, ACI 306 FOR COLD WEATHER CONCRETING, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE. PROVIDE CONCRETE COVER DIMENSIONS IN SHOP DRAWINGS FOR STRUCTURAL ENGINEER REVIEW.
- K. REINFORCING BAR SUPPORTS SHALL BE BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES TO HOLD REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FROM STEEL, PLASTIC OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" OF GREATER COMPRESSIVE STRENGTH THAN THE CONCRETE PLACED IN.
- L. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, OPENINGS, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHALL VERIFY WITH ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS FOR LOCATIONS OF REQUIRED COORDINATION ITEMS. CONTRACTOR SHALL CONTACT THE ARCHITECT OR ENGINEER IF AN ERROR OR OMISSION OCCURS AFTER CONCRETE PLACEMENT.
8. SUBMITTALS:
- A. CODE COMPLIANT STRUCTURAL DESIGN OF THE FOLLOWING ITEMS IS DEFERRED TO THE GENERAL CONTRACTOR.
- a. FIBER REINFORCED POLYMER (FRP) STRENGTHENING SYSTEM
- B. DEFERRED SUBMITTALS SHALL INCLUDE SUBSTANTIATING STRUCTURAL CALCULATIONS AND SHALL BEAR THE SIGNED WET STAMP OF A REGISTERED PROFESSIONAL ENGINEER WHO IS LEGALLY AUTHORIZED TO PRACTICE IN THE JURISDICTION WHERE PROJECT IS LOCATED AND WHO IS EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED. DEFERRED SUBMITTALS SHALL BEAR THE APPROVAL STAMP OF THE PROJECT ENGINEER OF RECORD.
- C. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS OR OMISSIONS IN THE SHOP DRAWINGS.
- D. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.
- E. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
- F. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING:
- a. CONCRETE MIX DESIGN AND MATERIALS
- b. CONCRETE REINFORCING STEEL
9. FRP REINFORCING OF CONCRETE
1. VERIFY AND DOCUMENT FIBER OR PREFABRICATED-CURED LAMINATE BATCH NUMBERS AND TYPE FOR COMPLIANCE WITH SPECIFIED MATERIALS AND APPROVED SUBMITTALS.
2. VERIFY AND DOCUMENT BATCH NUMBERS AND TYPES OF RESINS, INCLUDING PRIMERS, SATURANTS, ADHESIVES, AND COATINGS FOR COMPLIANCE WITH SPECIFIED MATERIALS AND APPROVED SUBMITTALS.
3. VERIFY ALL MATERIALS ARE STORED PER MANUFACTURER'S RECOMMENDATIONS.
4. VERIFY MIX RATIOS, MIXING TIMES, AND MIXED COLOR OF ALL RESINS, INCLUDING PRIMERS, SATURANTS, ADHESIVES, AND COATINGS MIXED FOR THE DAY.
5. VERIFY CORRECT PREPARATION OF TEST SAMPLES, FIELD TESTING AND RESULTS OF SPECIFIED FIELD TESTS FOR COMPLIANCE.
6. VISUAL INSPECTION AND DOCUMENTATION OF SURFACE PREPARATION PRIOR TO INSTALLATION OF LAMINATION STRIPS FOR:
- A. CORRECT LOCATION.
- B. AMBIENT TEMPERATURE, SURFACE TEMPERATURE AND SURFACE DRYNESS.
- C. SURFACE PROFILE OF CONCRETE SURFACE, SURFACE CLEANLINESS AND ROUNDING OF SHARP CORNERS.
- D. REPAIR AND INJECTION OF SIGNIFICANT CRACKS, PATCHING OF VOIDS AND REPAIR OF OTHER DEFECTS IN CONCRETE SURFACE.
7. CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTALLATION PROCEDURES DURING INSTALLATION INCLUDING:
- A. VERIFICATION OF FIBER ALIGNMENT, NUMBER OF LAYERS AND THE DIRECTIONS OF FIBERS OF EACH LAYER OF FABRIC.
- B. PROPER APPLICATION AND SATURATION OF RESIN TO FIBERS.
8. VERIFY PROPER CURING OF COMPOSITE SYSTEM.
9. VISUAL INSPECTION AND DOCUMENTATION AFTER INSTALLATION OF CURED LAMINATE FOR:
- A. LOCATION AND DIMENSIONS OF FRP REINFORCING.
- B. COMPLETENESS OF INSTALLATION INCLUDING NUMBER OF PILES.
- C. SATURATION OF STRIPS.
- D. ORIENTATION OF FABRIC.
- E. SOUNDING OF CURED LAMINATE STRIPS.
- F. IDENTIFY AND MAP LOCATIONS, SIZES AND GROUPINGS OF ANY DEFECTS, DELAMINATIONS, AIR VOIDS AND SUBSTANDARD AREAS IN CURED STRIPS.
10. INSPECT REPAIR OF ALL DEFECTS.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	LLH	LONG LEG HORIZONTAL
A.O.R.	ARCHITECT OF RECORD	LLV	LONG LEG VERTICAL
A.R.	ANCHOR RODS	LONG.	LONGITUDINAL
A.E.S.S.	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSL	LONG SLOT
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
B.L.	BLOCK LINTEL	MECH.	MECHANICAL
B.O.D.	BOTTOM OF DECK	MEP	MECHANICAL/ELECTRICAL/PLUMBING
B.O.S.	BOTTOM OF STEEL	MFR.	MANUFACTURER
B.P.	BASE PLATE	MIN.	MINIMUM
BAL.	BALANCE	MISC.	MISCELLANEOUS
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
BRG.	BEARING	N.S.	NEAR SIDE
C.J.	CONTRACTION JOINT	N.T.S.	NOT TO SCALE
C.L.	CENTER LINE	O.C.	ON CENTER
CLR.	CLEAR	O.D.	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	O.F.	OPPOSITE FACE
COL.	COLUMN	O.H.	OPPOSITE HAND
CONC.	CONCRETE	OPP.	OPPOSITE
CONST.	CONSTRUCTION	P.A.F.	POWDER/POWDER ACTUATED FASTENER
CONT.	CONTINUOUS	PCF	POUNDS PER CUBIC FOOT
D.B.A.	DEFORMED BAR ANCHOR	PEMB	PRE-ENGINEERED METAL BUILDING
D.B.E.	DECK BEARING ELEVATION	PLF	POUNDS PER LINEAR FOOT
DIA.	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DTL.	DETAIL	PSI	POUNDS PER SQUARE INCH
DWG.	DRAWING	R	RADIUS
E.F.	EACH FACE	R.O.	ROUGH OPENING
E.J.	EXPANSION JOINT	RE:	REFER
E.O.D.	EDGE OF DECK	REINF.	REINFORCING
E.O.R.	ENGINEER OF RECORD	REQD.	REQUIRED
E.O.S.	EDGE OF SLAB	RTU	ROOF TOP UNIT
E.W.	EACH WAY	S.D.S.	SELF-DRILLING SCREWS
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	S.S.	STAINLESS STEEL
ELEV.	ELEVATION	SCHED.	SCHEDULE
EQ.	EQUAL	SIM.	SIMILAR
EXIST.	EXISTING	SP.	SPACE/SPACING
F.F.E.	FINISHED FLOOR ELEVATION	SPECS.	SPECIFICATIONS
F.S.	FAR SIDE	SSL	SHORT SLOT
F.V.	FIELD VERIFY	STD.	STANDARD
FDN.	FOUNDATION	STL	STEEL
FT.	FOOT/FEET	T&B	TOP AND BOTTOM
FTG.	FOOTING	T.O.	TOP OF
G.B.	GRADE BEAM	T.O.C.	TOP OF CONCRETE
G.C.	GENERAL CONTRACTOR	T.O.M.	TOP OF MASONRY
GAGE	GAGE	T.O.P.	TOP OF PIER
GALV.	GALVANIZED	T.O.S.	TOP OF STEEL
H.S.A.	HEADED STUD ANCHOR	T.O.W.	TOP OF WALL
HORIZ.	HORIZONTAL	TRANS.	TRANSVERSE
I.F.	INSIDE FACE	TYP.	TYPICAL
IN.	INCH/INCHES	U.N.O.	UNLESS NOTED OTHERWISE
INFO.	INFORMATION	VERT.	VERTICAL
J.B.E.	JOIST BEARING ELEVATION	W.P.	WORK POINT
JT.	JOINT	W.S.	WATERSTOP
K	UNIT OF 1,000 POUNDS (KIP)	W.W.R.	WELDED WIRE REINFORCEMENT
KSI	KIPS PER SQUARE INCH	WT.	WEIGHT
LBS.	POUNDS		

ABBREVIATIONS

LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSL	LONG SLOT
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OPPOSITE FACE
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
P.A.F.	POWDER/POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.O.	ROUGH OPENING
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
RTU	ROOF TOP UNIT
S.D.S.	SELF-DRILLING SCREWS
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SIM.	SIMILAR
SP.	SPACE/SPACING
SPECS.	SPECIFICATIONS
SSL	SHORT SLOT
STD.	STANDARD
STL	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
W.S.	WATERSTOP
W.W.R.	WELDED WIRE REINFORCEMENT
WT.	WEIGHT



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02/28/2024

									APP'D
									BY
									Date
									Revision/Issue
									No.

PROJECT TITLE
**REPAIR (SUS) AIRMEN
DORMITORY BLDG 854**

SHEET TITLE
GENERAL NOTES

DRAWN BY AJG	SLANT DESIGNER AJG
DESIGN REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET
DATE 29 FEB. 2024	\$0.00
BY-ALL AS NOTED	10 of 100



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SPECIAL INSPECTION REQUIREMENTS

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.

IBC 2018 REQUIRED SPECIAL INSPECTIONS			FREQUENCY OF INSPECTION	
			CONTINUOUS	PERIODIC
CONCRETE CONSTRUCTION (IBC TABLE 1705.3)				
1.		INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X
2.		REINFORCING BAR WELDING:		
	A.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706:	---	X
	B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
	C.	INSPECT ALL OTHER WELDS	X	
3.		INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a)		
	A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
	B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4 A.		X
5.		VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.		INSPECT CONCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES.	X	---
8.		VERIFY MAINTENANCE OF SPECIFIED CUREING TEMPERATURE AND TECHNIQUES.	---	X
9.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS.		
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		



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							Revision/Issue
							No.

PROJECT TITLE
REPAIR (SUS) AIRMEN
DORMITORY BLDG 854

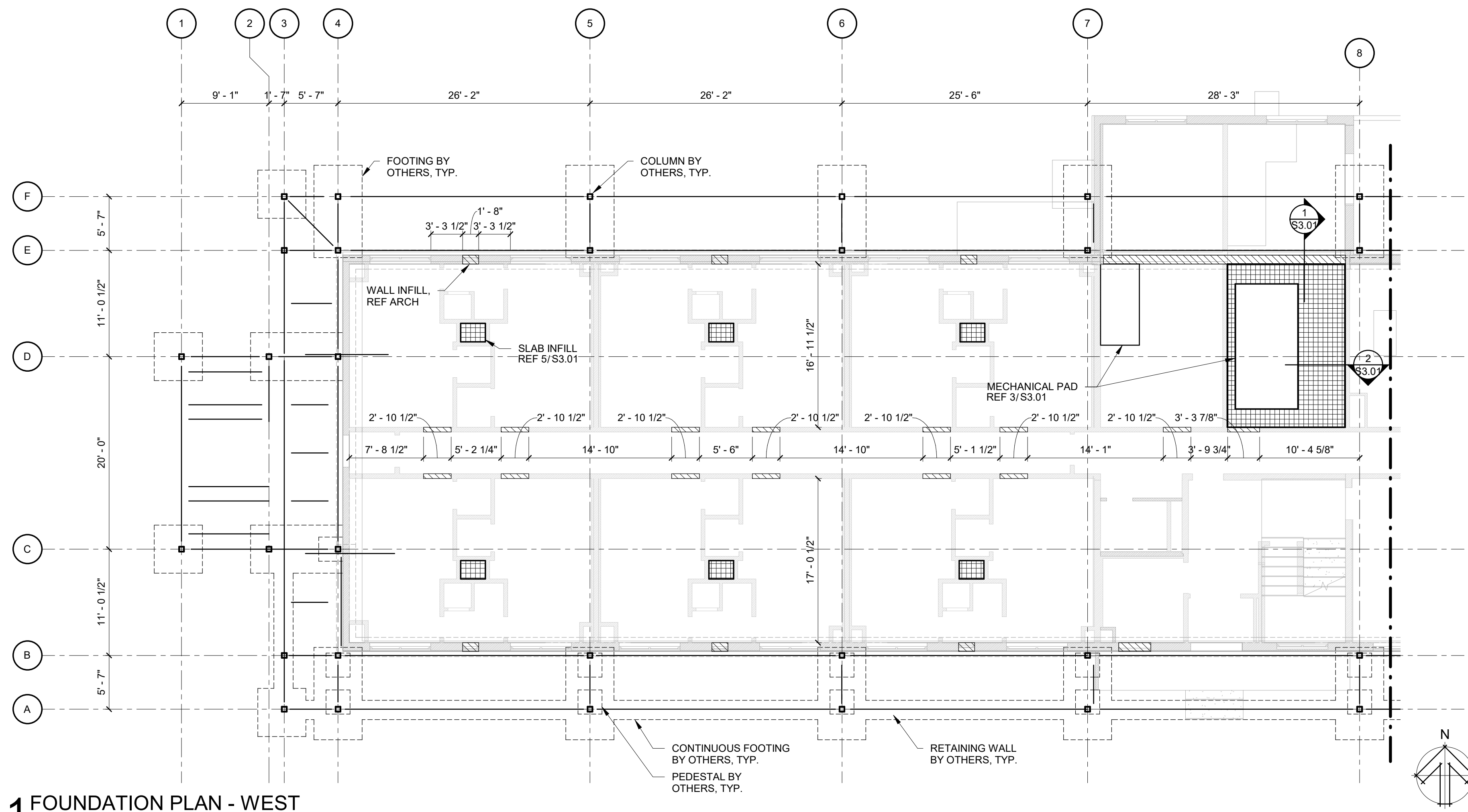
SHEET TITLE
STRUCTURAL SPECIAL
INSPECTIONS

DRAWN BY AJG	SEAL DESIGNER AJG
DESIGN REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET
DATE 29 FEB, 2024	S0.01
SCALE AS NOTED	11 OF 100

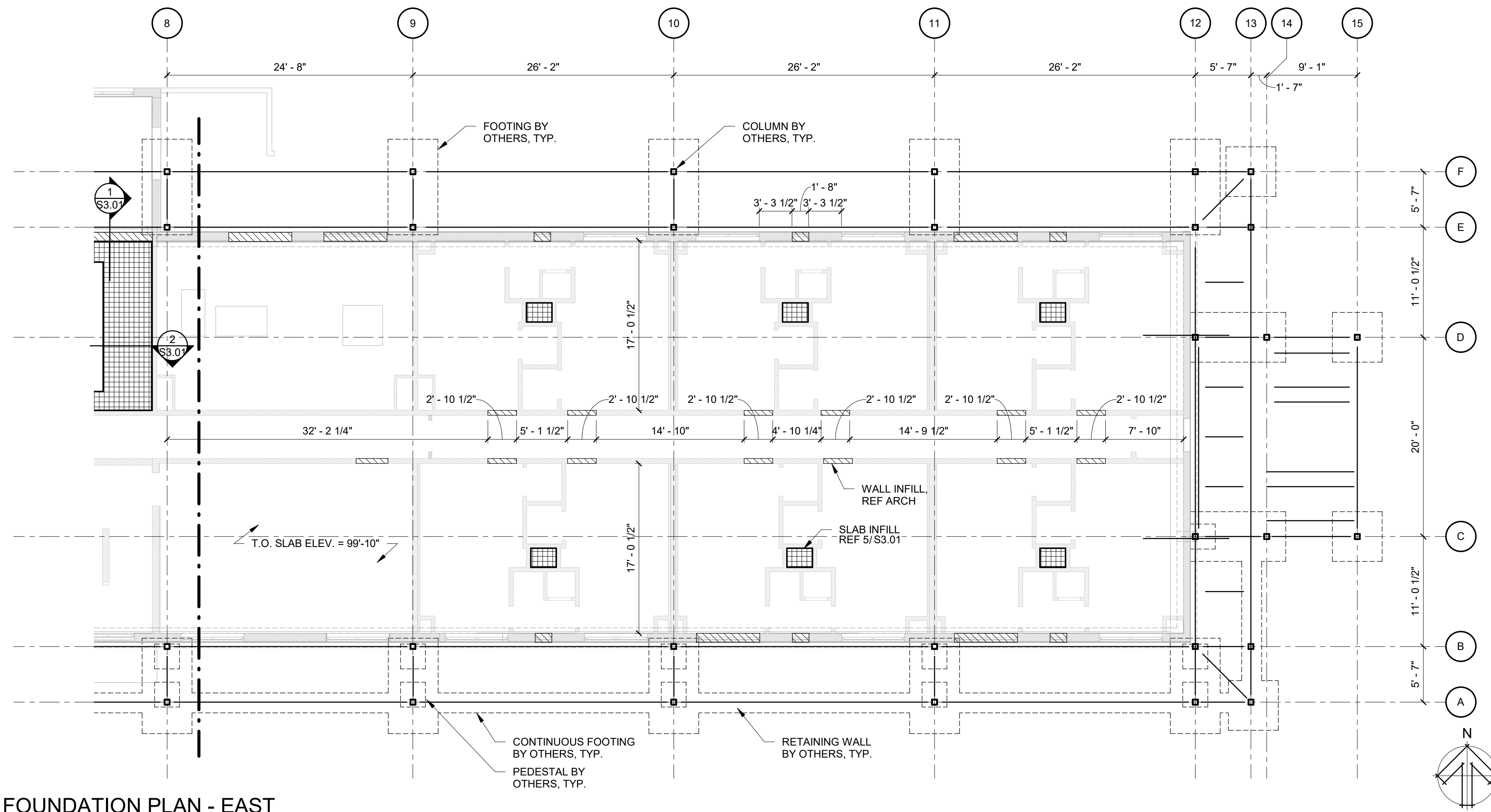


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1 FOUNDATION PLAN - WEST
1/8" = 1'-0"



2 FOUNDATION PLAN - EAST
1/8" = 1'-0"

- PLAN NOTES:**
1. TOP OF FINISHED FLOOR ELEVATION = 101'-4", U.N.O.
 2. CONTRACTOR SHALL NOT CUT, CORE, OR BORE HOLES IN EXISTING MEMBERS, INCLUDING MASONRY WALLS, HOLLOW CORE PLANKS, AND DECK, UNLESS APPROVED BY E.O.R.
 3. ALL MEMBERS SHOWN ON THIS PLAN ARE EXISTING, U.N.O.
 4. CONDITIONS, DIMENSIONS, AND MEMBER LOCATIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS AND SITE OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 5. FIELD VERIFY T.O. FINISH FLOOR ELEVATIONS, OPENING SIZES AND EXISTING REINFORCEMENT PRIOR TO FABRICATION AND CONSTRUCTION.
 6. EXISTING JAMB REINFORCEMENT SHALL BE FIELD VERIFIED. IF EXISTING CONDITIONS DIFFER FROM DETAILS ON SHEET S5.01, CONTACT E.O.R.

LEGEND:

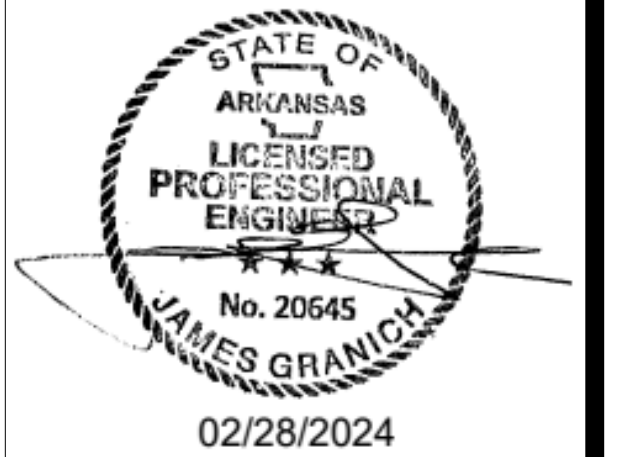
- ① OPENING IN MASONRY WALL PER ELEVATION PER SHEETS S1.02, S1.03, AND S1.04.
- ← ###k → SEISMIC IN-PLANE SHEARWALL LOAD (LRFD)



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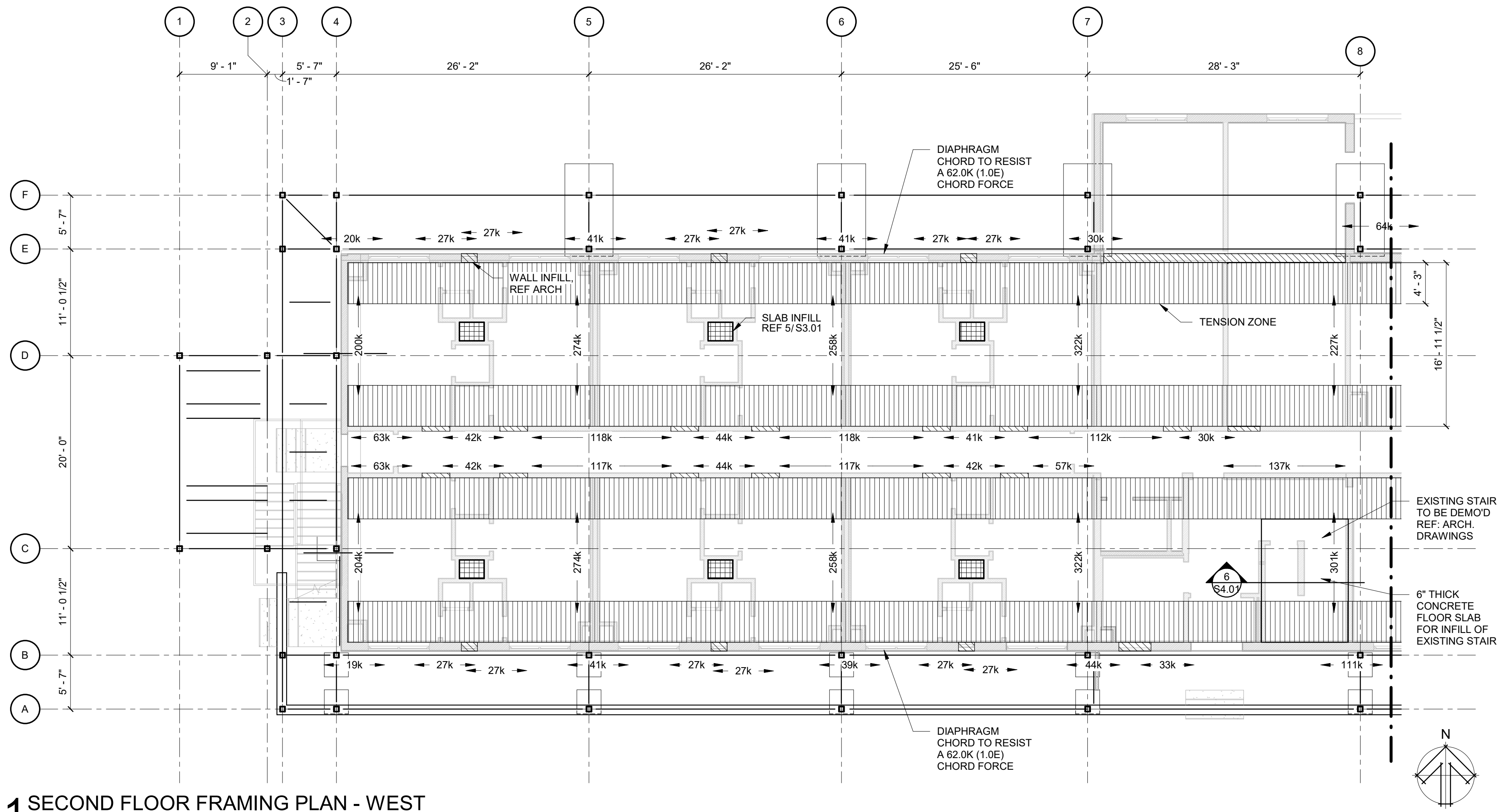
PROJECT TITLE
**REPAIR (SUS) AIRMEN
DORMITORY BLDG 854**

SHEET TITLE
FOUNDATION PLAN

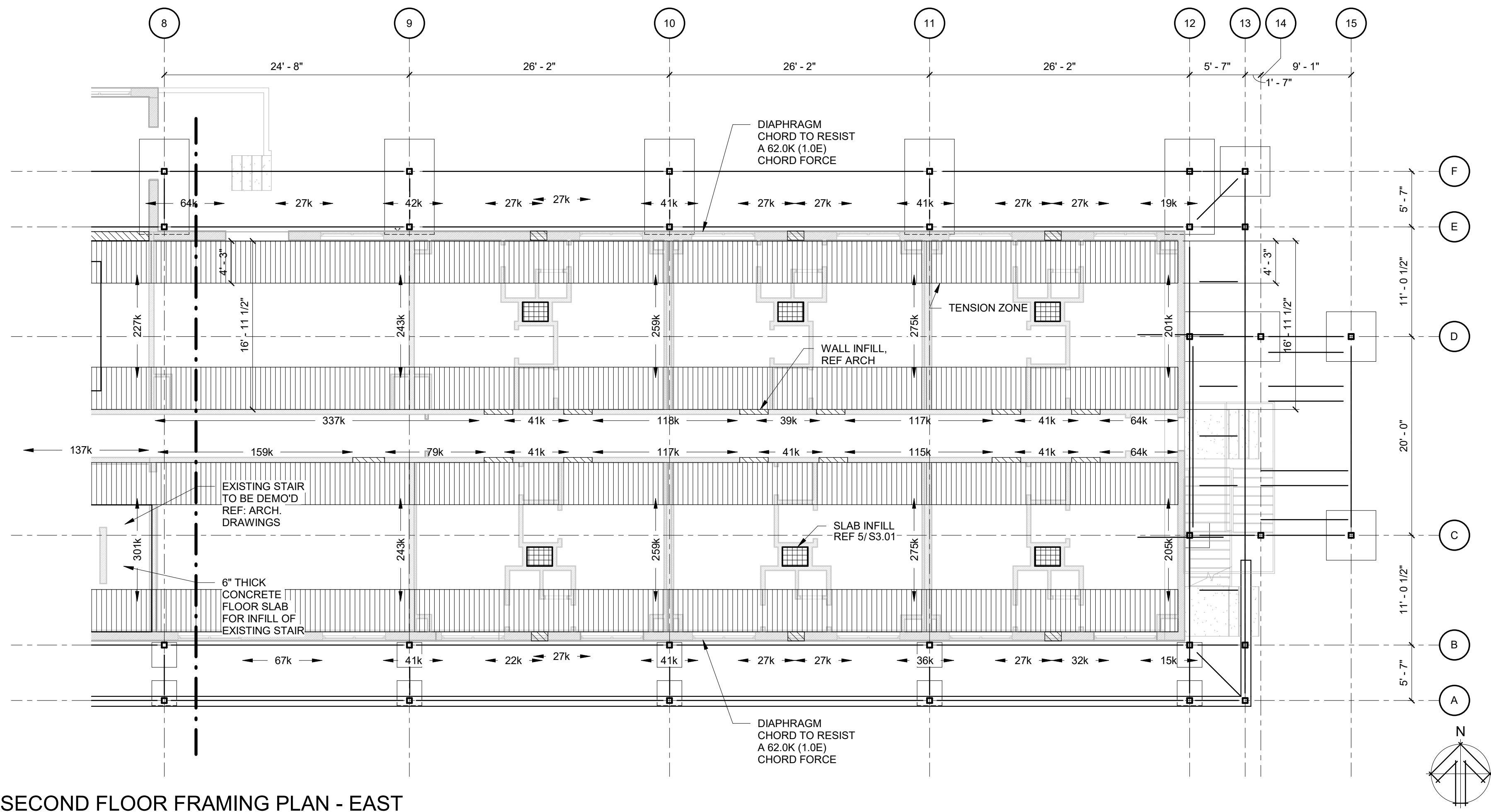


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DRAWN BY AJG	SLAB DESIGNER AJG
REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET
DATE 29 FEB, 2024	S1.01
SCALE AS NOTED	12 OF 100



1 SECOND FLOOR FRAMING PLAN - WEST
1/8" = 1'-0"



2 SECOND FLOOR FRAMING PLAN - EAST
1/8" = 1'-0"

- PLAN NOTES:**
1. TOP OF FINISHED FLOOR ELEVATION = 111'-6 1/2" U.N.O.
 2. CONTRACTOR SHALL NOT CUT, CORE, OR BORE HOLES IN EXISTING MEMBERS, INCLUDING MASONRY WALLS, HOLLOW CORE PLANKS, AND DECK, UNLESS APPROVED BY E.O.R.
 3. ALL MEMBERS SHOWN ON THIS PLAN ARE EXISTING, U.N.O.
 4. CONDITIONS, DIMENSIONS, AND MEMBER LOCATIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS AND SITE OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 5. FIELD VERIFY T.O. FINISH FLOOR ELEVATIONS, OPENING SIZES AND EXISTING REINFORCEMENT PRIOR TO FABRICATION AND CONSTRUCTION.
 6. EXISTING JAMB REINFORCEMENT SHALL BE FIELD VERIFIED. IF EXISTING CONDITIONS DIFFER FROM DETAILS ON SHEET S.501, CONTACT E.O.R.

PLAN REFERENCE NOTES:

- A. VERIFY OPENING SIZE WITH MEP AND ARCH.
- B. COORDINATE LOCATION WITH MEP/ARCH. OPENING LOCATION CAN MOVE ALONG EXTERIOR WALL TO A LIMITED EXTENT. VERIFY FINAL OPENING LOCATION IS ACCEPTABLE TO ALL PARTIES.
- C. FRP SUBCONTRACTOR SHALL PROVIDE CALCS AND DRAWINGS WET STAMPED BY REGISTERED PROFESSIONAL ENGINEER WHO IS LEGALLY AUTHORIZED TO PRACTICE IN THE UNITED STATES AND WHO IS EXPERIENCED IN FRP DESIGN.
- D. THE ENGINEER OF RECORD WILL REVIEW THE CALCS AND SHOP DRAWINGS BUT THE REVIEW IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS.

LEGEND:

1. OPENING IN MASONRY WALL PER ELEVATION PER SHEETS S1.02, S1.03, AND S1.04.

← ###k → SEISMIC IN-PLANE SHEARWALL LOAD (LRFD)



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No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
**REPAIR (SUS) AIRMEN
DORMITORY BLDG 854**

SHEET TITLE
**SECOND FLOOR FRAMING
PLAN**

DRAWN BY AJG	SLAB DESIGNER AJG
TECH REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET S1.02
DATE 29 FEB, 2024	SCALE 13 OF 100
AS NOTED	

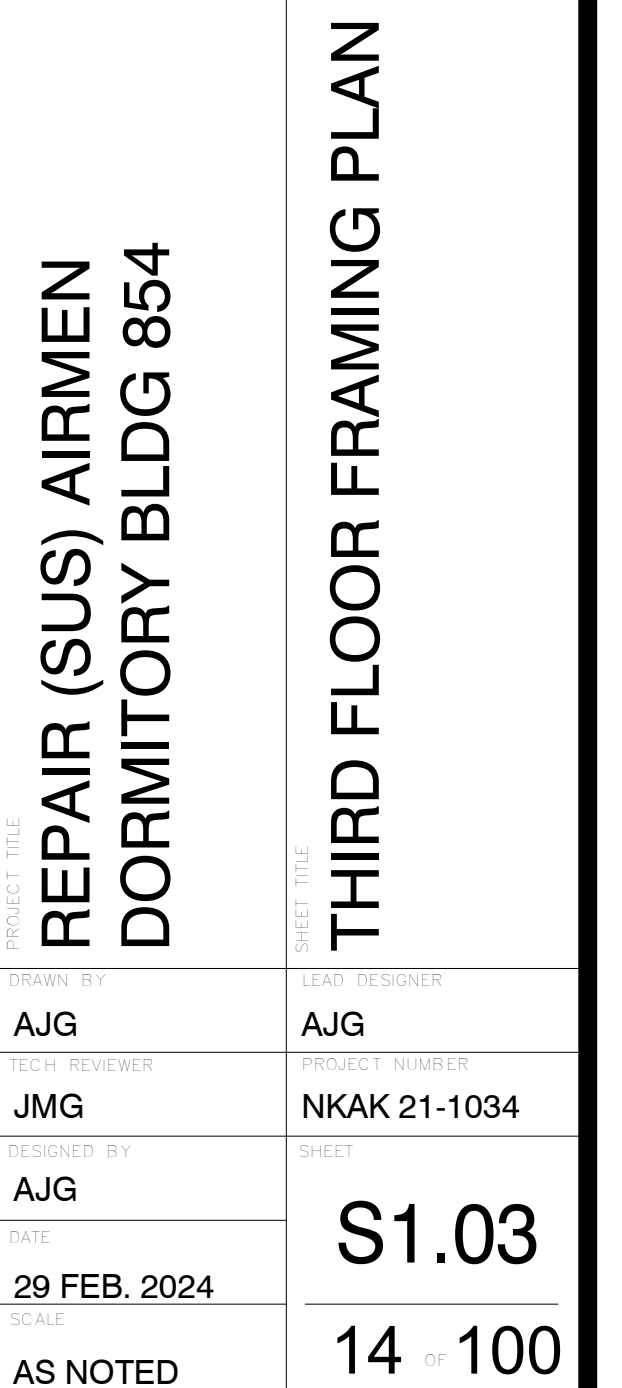


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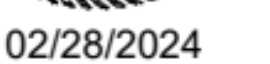
SEISMIC IN-PLANE SHEARWALL
LOAD (LRFD)



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- SEISMIC IN-PLANE SHEARWALL
LOAD (LRFD)



DRAWN BY AJG	LEAD DESIGNER AJG
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DESIGNED BY AJG	SHEET
DATE 29 FEB. 2024	S1.04
SCALE AS NOTED	15 OF 100





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TECH. REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET S1.05
DATE 29 FEB. 2024	
SCALE AS NOTED	16 OF 100



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					Revision/Issue
					No.

PROJECT TITLE
REPAIR (SUS) AIRMEN
DORMITORY BLDG 854

SHEET TITLE
FOUNDATION DETAILS

DRAWN BY AJG	SLAB DESIGNER AJG
TECH. REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET
DATE 29 FEB, 2024	S3.01
SCALE AS NOTED	17 OF 100



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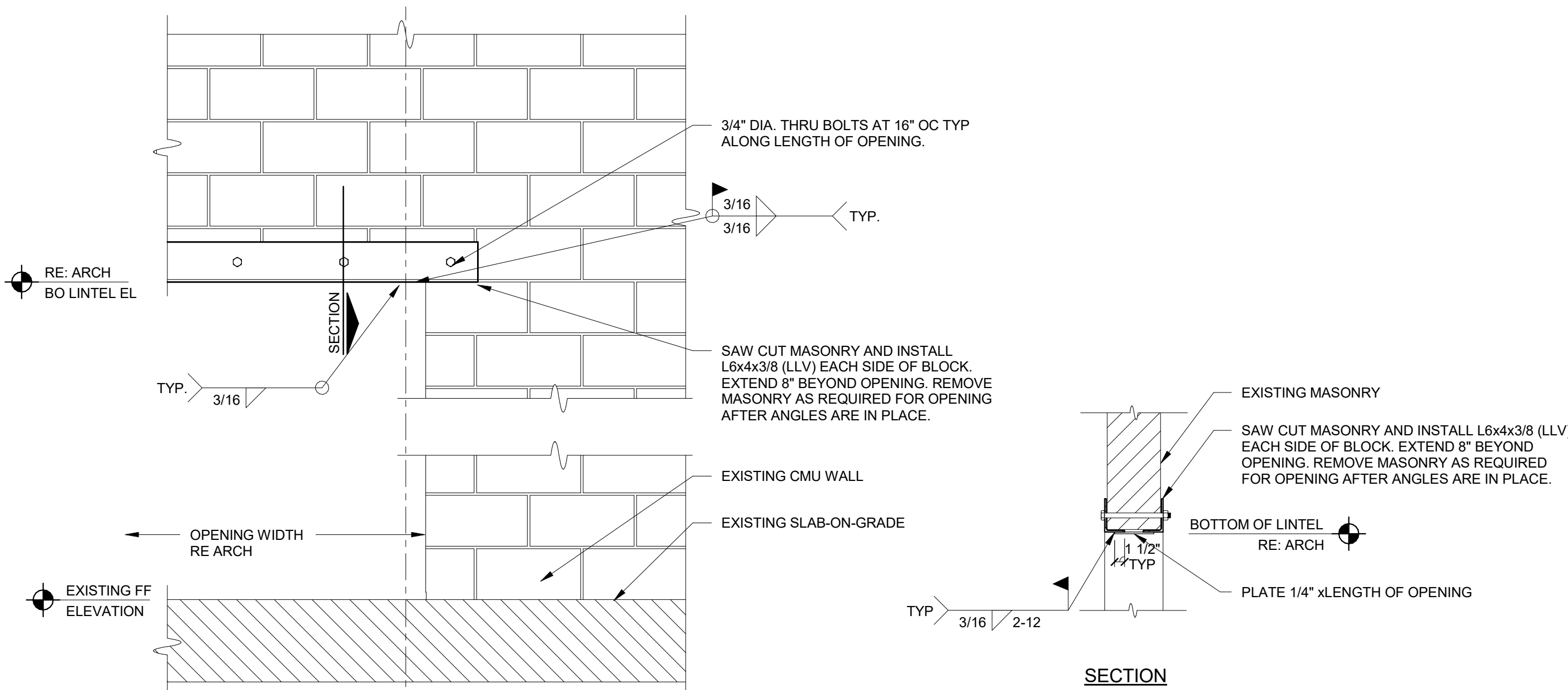
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CONCRETE REINFORCING LAP LENGTH SCHEDULE										
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (fc)									
	3000psi		4000psi		4500psi		5000psi		7000psi	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"	22"	17"	19"	14"
#4	38"	29"	33"	25"	31"	24"	29"	23"	25"	19"
#5	47"	36"	41"	31"	38"	30"	36"	28"	31"	24"
#6	56"	43"	49"	37"	46"	35"	44"	34"	37"	28"
#7	81"	63"	71"	54"	67"	51"	63"	49"	54"	41"
#8	93"	72"	81"	62"	76"	59"	72"	56"	61"	47"
#9	105"	81"	91"	70"	86"	66"	81"	63"	69"	53"
#10	118"	91"	102"	79"	96"	74"	92"	71"	77"	60"

NOTES:
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES
OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.

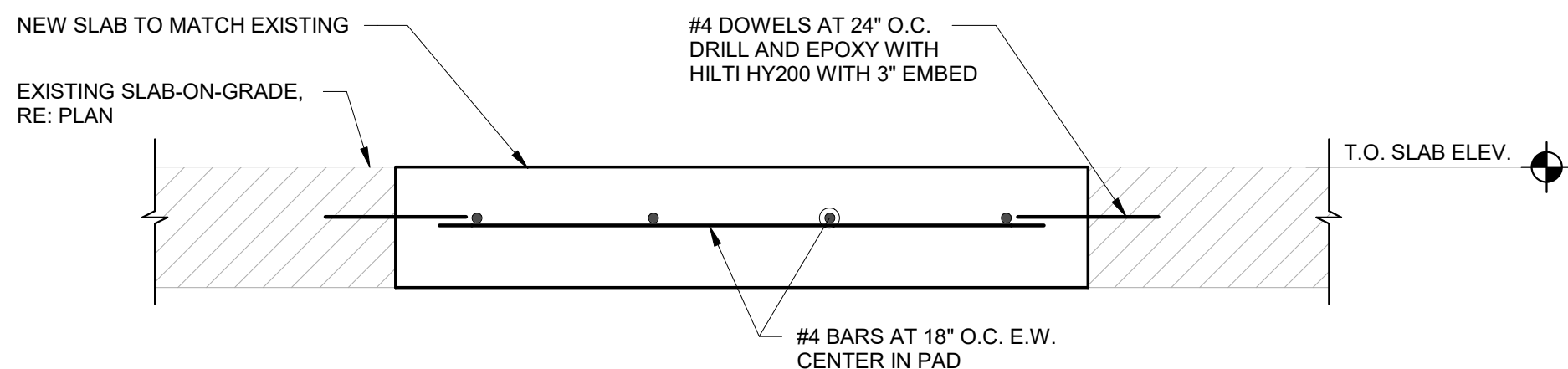
6 CONCRETE REINFORCING LAP SCHEDULE

3/4" = 1'-0"



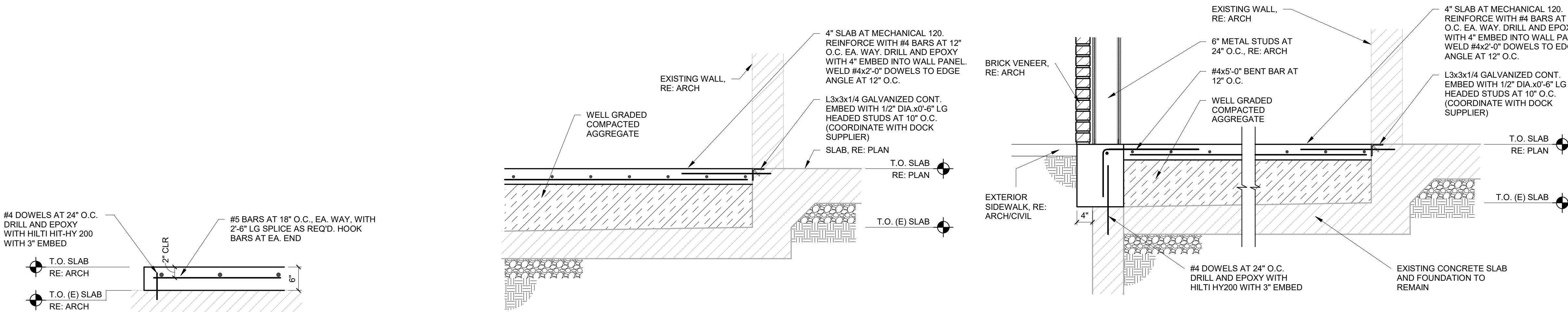
4 NEW OPENING IN EXISTING WALL

3/4" = 1'-0"



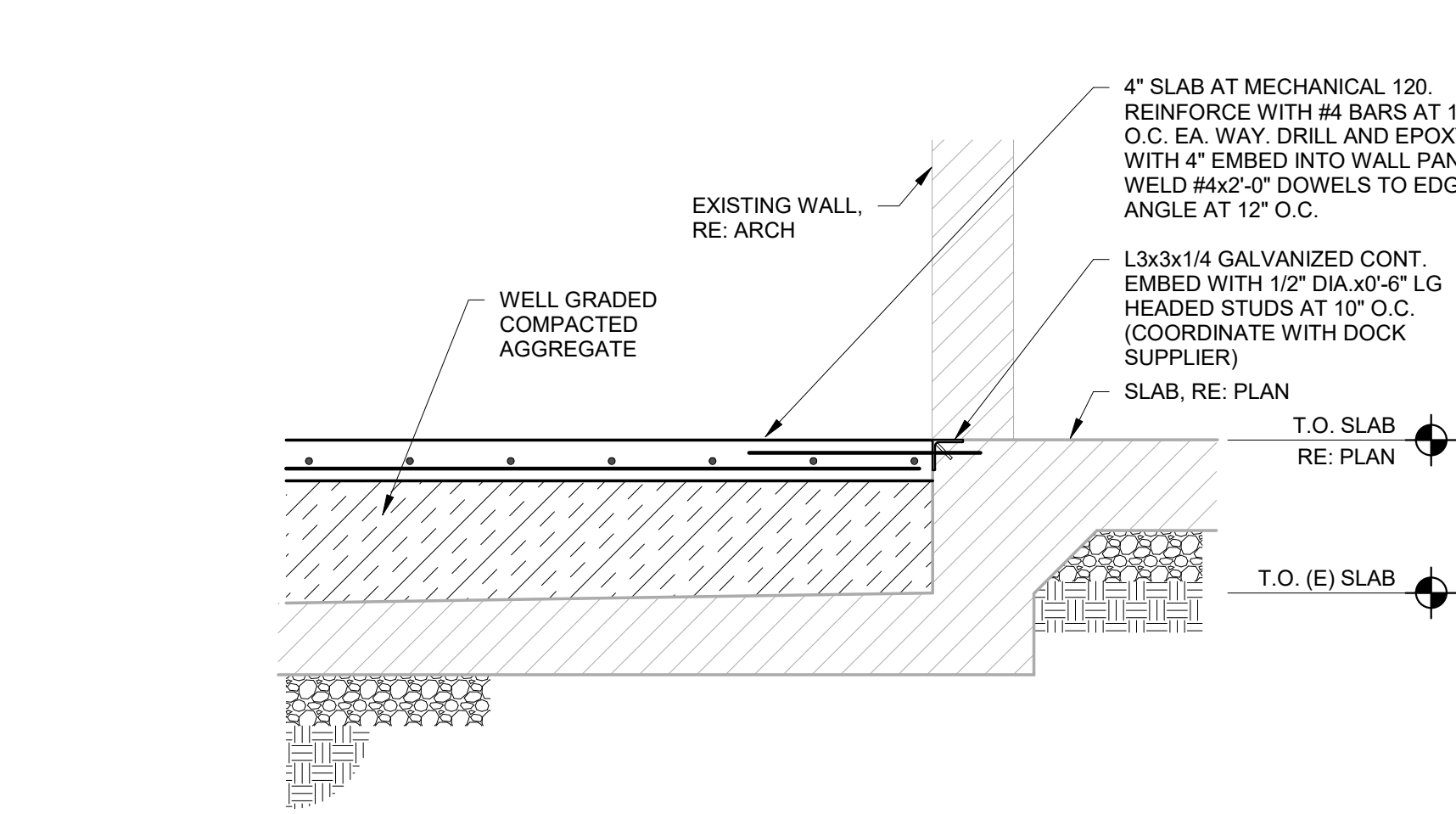
5 SLAB INFILL DETAIL

3/4" = 1'-0"



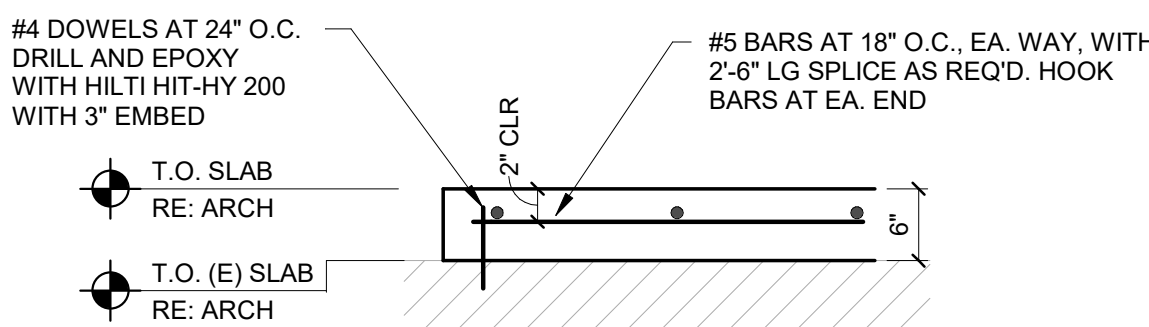
1 FOUNDATION SECTION

3/4" = 1'-0"



2 FOUNDATION SECTION

3/4" = 1'-0"



3 MECHANICAL PAD DETAIL

3/4" = 1'-0"

FRP REACTION SCHEDULE				
WALL LOCATION		OUT-OF-PLANE LOAD (PSF)	AXIAL LOAD (DL/LL)(PLF)	IN-PLANE LOAD (PLF)
1st - 2nd	INTERIOR	5.0	3295/1140	AS SHOWN ON PLAN
	EXTERIOR	20.2	2715/890	
2nd - 3rd	INTERIOR	5.0	2105/685	
	EXTERIOR	20.2	1785/535	
3rd - ROOF	INTERIOR	5.0	285/230	
	EXTERIOR	20.2	225/180	

EXISTING WALL TESTING VALUES						
WALL LOCATION		WALL TYPE*	BRICK DIMENSIONS*	COMPRESSIVE STRENGTH*	FLEXURAL BOND STRENGTH*	SHEAR STRENGTH*
1st - 2nd	INTERIOR	HOLLOW CORE CLAY BLOCK	6"	1,655 PSI	24.8-31.7 PSI	----
	EXTERIOR	CLAY BRICK	4"	6,630 PSI	17.9 PSI	178-595 PSI
2nd - 3rd	INTERIOR	HOLLOW CORE CLAY BLOCK	6"	1,230 PSI	48.1 PSI	196-247 PSI
	EXTERIOR	CLAY BRICK	4"	6,950 - 7,620 PSI	----	233 PSI
3rd - ROOF	INTERIOR	HOLLOW CORE CLAY BLOCK	6"	1,555 - 3,990 PSI	19.0 PSI	61 PSI
	EXTERIOR	CLAY BRICK	4"	6,425 PSI	20.0 PSI	177 PSI

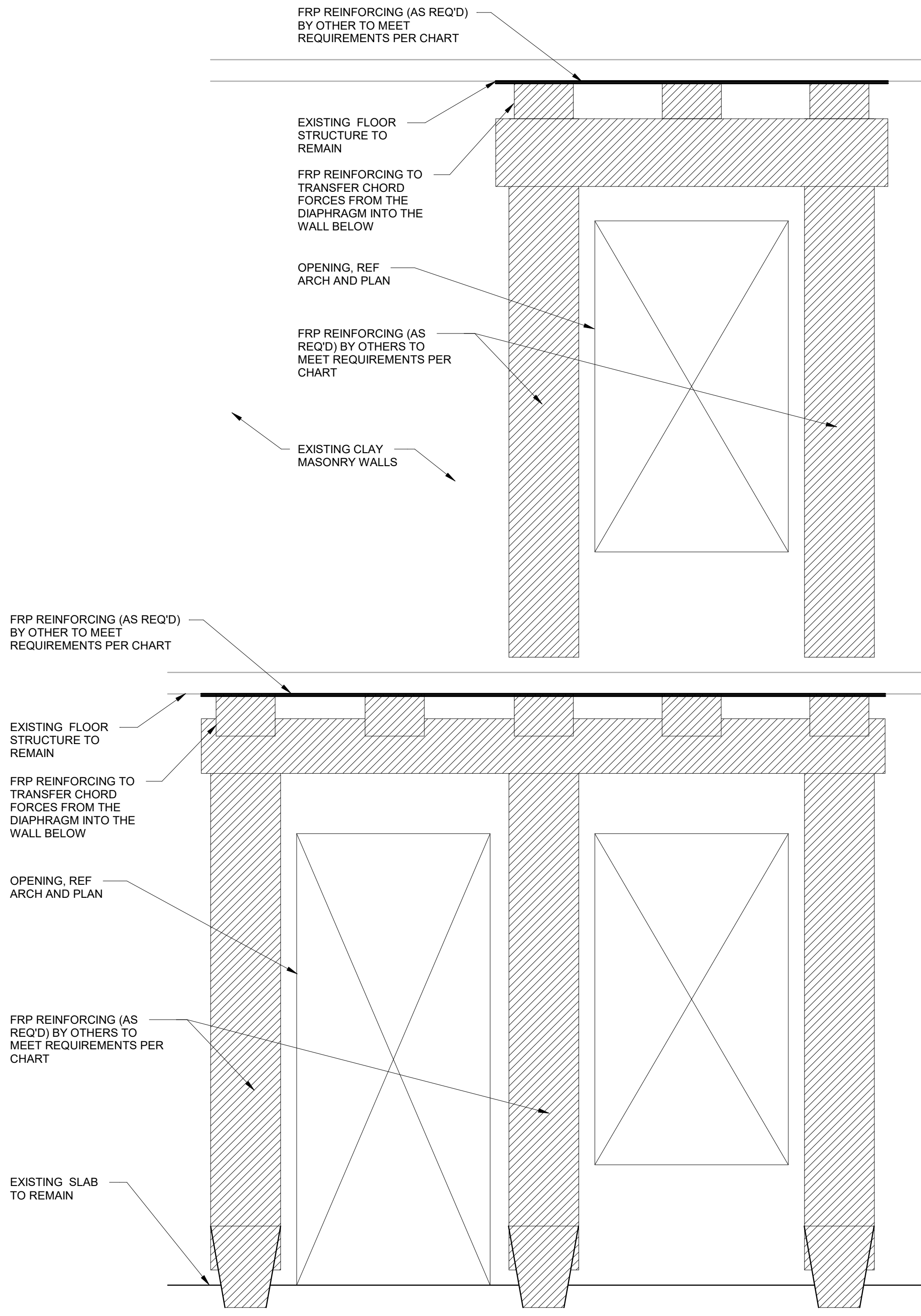
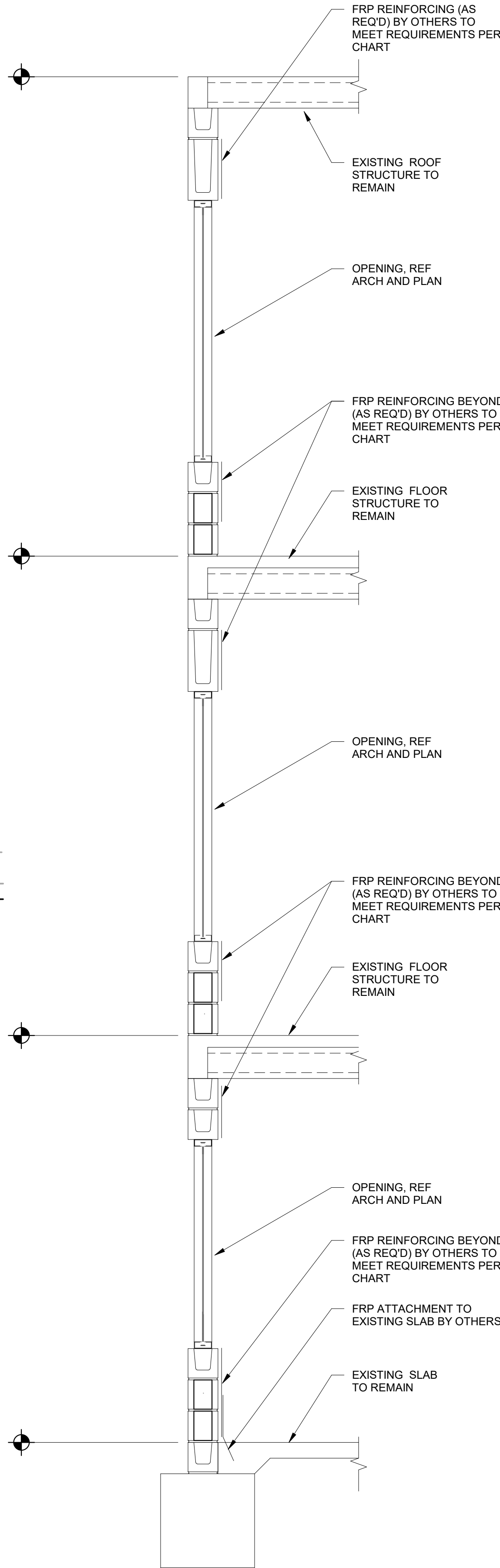
* - PROPERTIES TO BE TESTED ON-SITE. FOLLOW ASTM GUIDELINES

EXISTING WALL DESIGN VALUES				
WALL TYPE	BRICK DIMENSIONS	COMPRESSIVE STRENGTH	FLEXURAL BOND STRENGTH	SHEAR STRENGTH
HOLLOW CORE CLAY BLOCK	6"	1,035 PSI	13.0 PSI	132 PSI
CLAY BRICK	4"	5,860 PSI	16.0 PSI	172 PSI



EXTERNALLY BONDED CARBON FIBER (CFRP) SHEAR STRENGTHENING INSTALLATION:

- INSTALLING CONTRACTOR SHALL PROVIDE EVIDENCE OF TRAINING AND PREVIOUS EXPERIENCE WITH THE INSTALLATION PROCEDURES DEVELOPED BY THE CFRP SYSTEM MANUFACTURER.
- THE CONCRETE DOUBLE TEE SUBSTRATE SHALL BE PROPERLY REPAIRED AND PREPARED ACCORDING TO THE INSTALLATION PROCEDURES DEVELOPED BY THE CFRP SYSTEM MANUFACTURER.
- SURFACE SHALL BE CLEANED, REPAIRED, VOIDS FILLED WITH RESIN BASED PUTTY, AND ROUGHENED PER ACI 440 AND THE INSTALLATION PROCEDURES. THE BOTTOM CORNERS OF THE TEE SHALL BE ROUNDED AT THE CORNERS TO A 0.5 IN. RADIUS. THE SURFACE SHALL BE DRY PRIOR TO BONDING CFRP WRAP TO CONCRETE. THE SURFACE OF THE CONCRETE SHALL BE PREPARED TO PROMOTE CONTINUOUS CONTACT BETWEEN THE CONCRETE SURFACE AND CFRP WRAP.
- THE CFRP SYSTEM INSTALLER SHALL SUBMIT INFORMATION ON CFRP WRAP AND ADHESIVE. THE SUBMITTAL SHALL INCLUDE THE INSTALLATION, CURING AND QUALITY CONTROL PROCEDURES WITH THE INSTALLER QUALIFICATIONS PRIOR TO INSTALLATION.
- THE CFRP WRAP SYSTEM SHALL BE A SYSTEM WITH THE FIBERS ORIENTED TRANSVERSE TO THE AXIS OF THE MEMBER FOR SHEAR STRENGTHENING.
- THE CFRP WRAP SHALL MEET THE FOLLOWING MINIMUM DESIGN PROPERTIES:
 - THICKNESS = 0.015 IN. MIN.
 - TENSILE STRENGTH = 104 KSI
 - TENSILE MODULUS OF ELASTICITY = 8855 KSI
 - TENSILE % ELONGATION = 1.09 %
- INSTALLER SHALL FOLLOW AND DOCUMENT QUALITY CONTROL PROCEDURES AS PROVIDED BY MANUFACTURER OR AS DESIGNATED IN THE ICC EVALUATION SERVICES, INC. ACCEPTANCE CRITERIA DOCUMENT AC178.
- RESIN TESTS SHALL BE PROVIDED PER ASTM D3218. TWO RANDOM BATCHES OF RESINS, INCLUDING PRIMERS, SATURANTS, ADHESIVES, AND COATINGS MIXED EACH DAY SHALL BE TESTED TO ASSURE PROPER MIX RATIO.
- FIELD PULL-OFF TESTS SHALL BE PROVIDED PER ASTM D4541 OR ACI 503R. FIELD PULL-OFF TESTS SHALL BE PERFORMED ON A MINIMUM OF 1 TEST PANEL PER DAY, FOR EACH NEW BATCH OF RESIN OR FABRIC, AND AS A MINIMUM 1 TEST EVERY 75 CURED LAMINATE STRIPS INSTALLED OR EVERY 6 PRECAST TEE STEMS REINFORCED.
- SPECIAL INSPECTIONS AND FIELD VISUAL INSPECTIONS SHALL BE PERFORMED BY A TESTING COMPANY TRAINED IN FRP INSTALLATION AND INSPECTION OR AN ENGINEER PER ACI 440.2 AND AC178.



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PROJECT TITLE
**REPAIR (SUS) AIRMEN
DORMITORY BLDG 854**

SHEET TITLE
FRAMING DETAILS

DRAWN BY AJG	SLAB DESIGNER AJG
TECH REVIEWER JMG	PROJECT NUMBER NKAK 21-1034
DESIGNED BY AJG	SHEET
DATE 29 FEB, 2024	S4.02
SCALE AS NOTED	19 OF 100



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1 FRP ELEVATION
3/4" = 1'-0"