

NEW PORTABLE CLASSROOMS FOR

SPRINGVILLE ELEMENTARY SCHOOL

AND

MARGARET ELEMENTARY SCHOOL

ST. CLAIR COUNTY BOARD OF EDUCATION

BOARD MEMBERS

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OWNER: ST. CLAIR COUNTY BOARD OF EDUCATION
410 ROY DRIVE
ASHVILLE, ALABAMA 35953

ARCHITECT: LATHAN ASSOCIATES ARCHITECTS, P.C.
300 CHASE PARK SOUTH, SUITE 200
HOOVER, ALABAMA 35244
EMAIL:RFI@LATHANASSOCIATES.COM

ELECTRICAL: STEWART ENGINEERING, INC.
300 E 7TH STREET
ANNISTON, ALABAMA 36207
CONTACT: SHAWN CRAWFORD

DRAWING INDEX

(TOTAL SHEETS – 05 SHEETS)

ARCHITECTURAL DRAWINGS

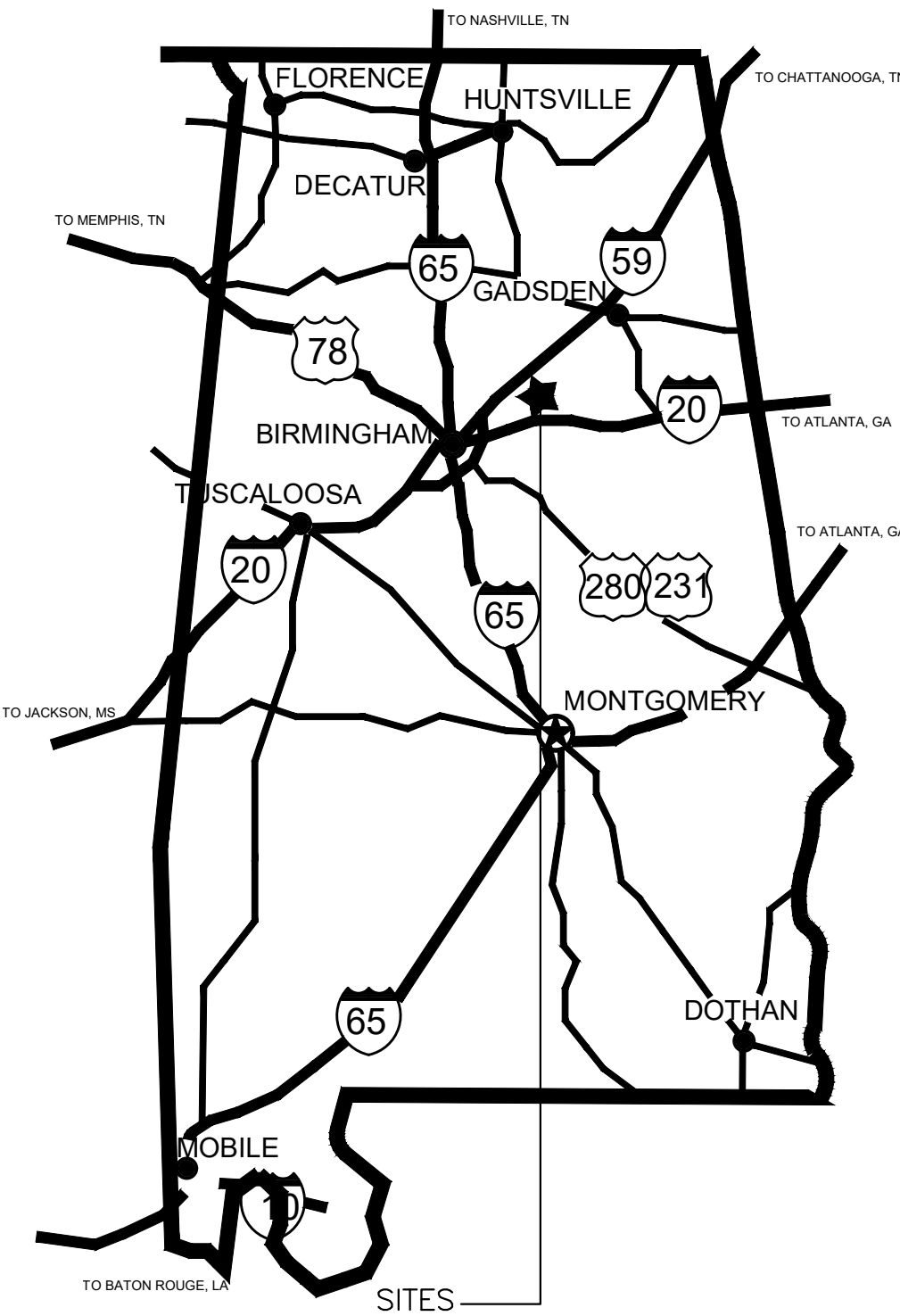
(3 SHEETS)

- T1 - TITLE AND INDEX
- A1 - SPRINGVILLE ELEMENTARY SCHOOL
- A2 - MARGARET ELEMENTARY SCHOOL

ELECTRICAL DRAWINGS

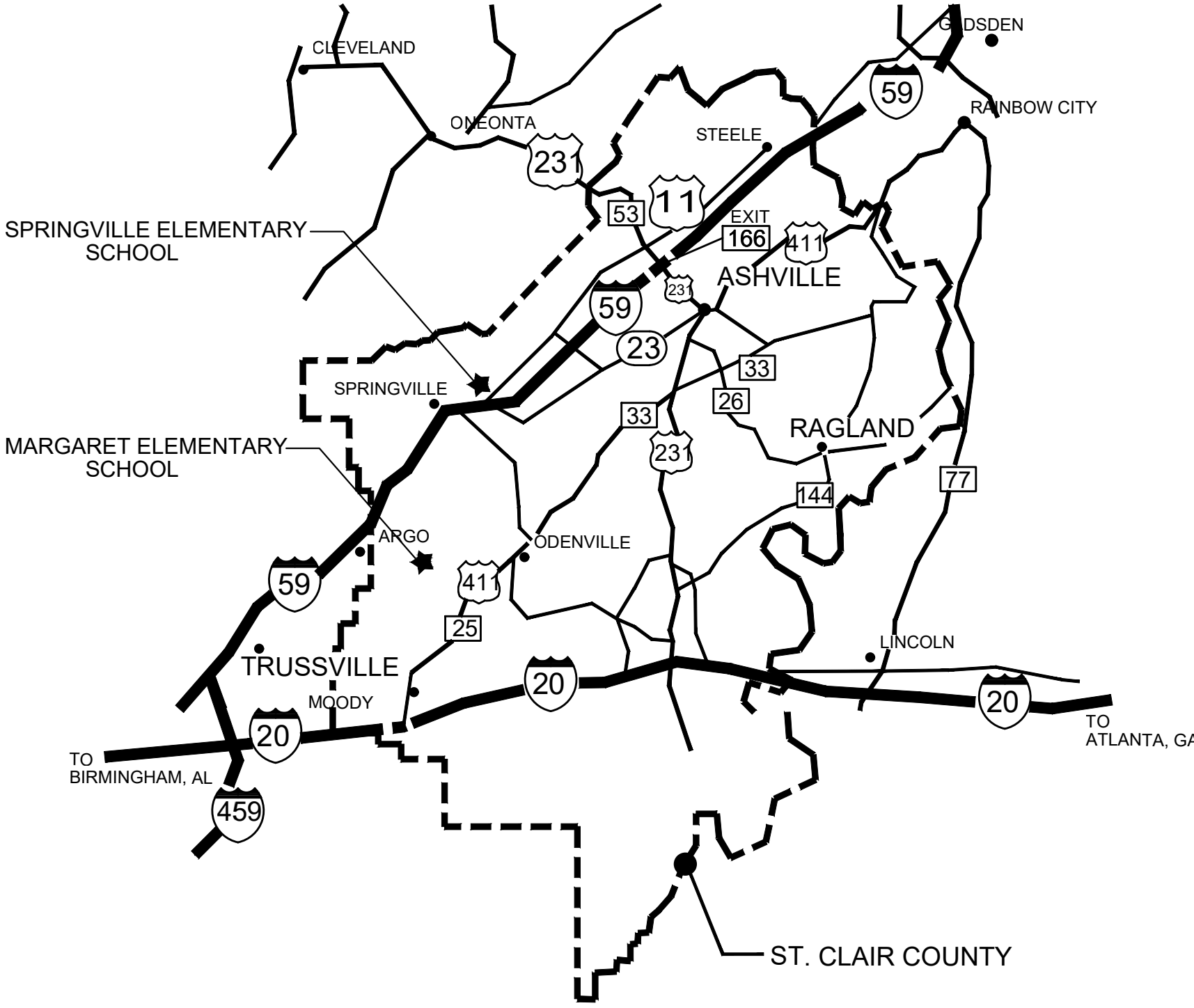
(2 SHEETS)

- E1.1 - SPRINGVILLE ELEMENTARY SCHOOL - ELECTRICAL
- E2.1 - MARGARET ELEMENTARY SCHOOL - ELECTRICAL



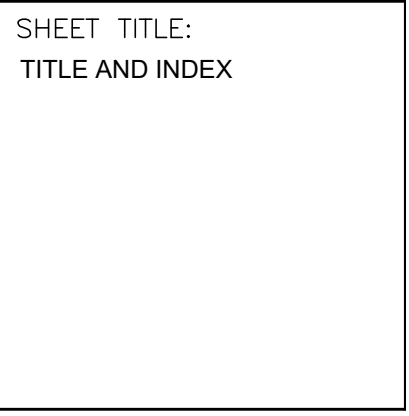
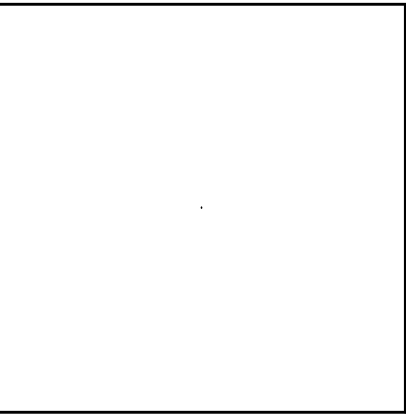
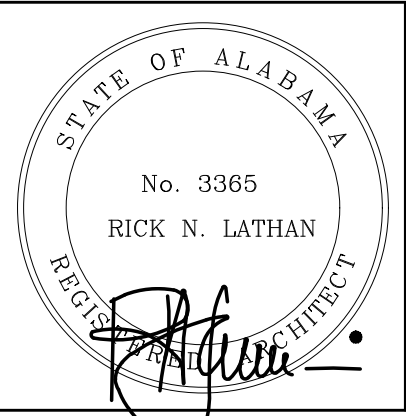
AREA MAP

STATE OF ALABAMA

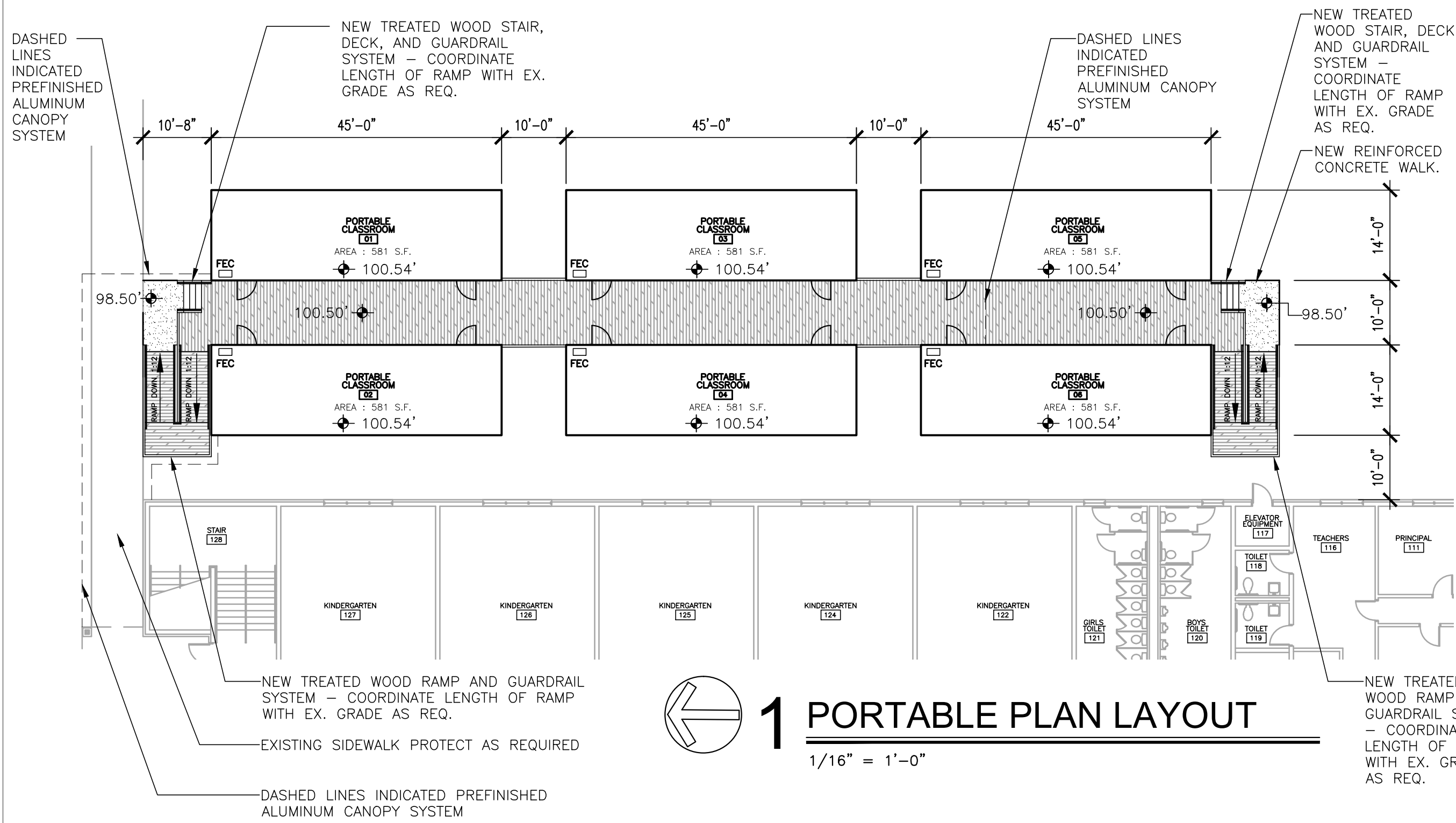


VICINITY MAP

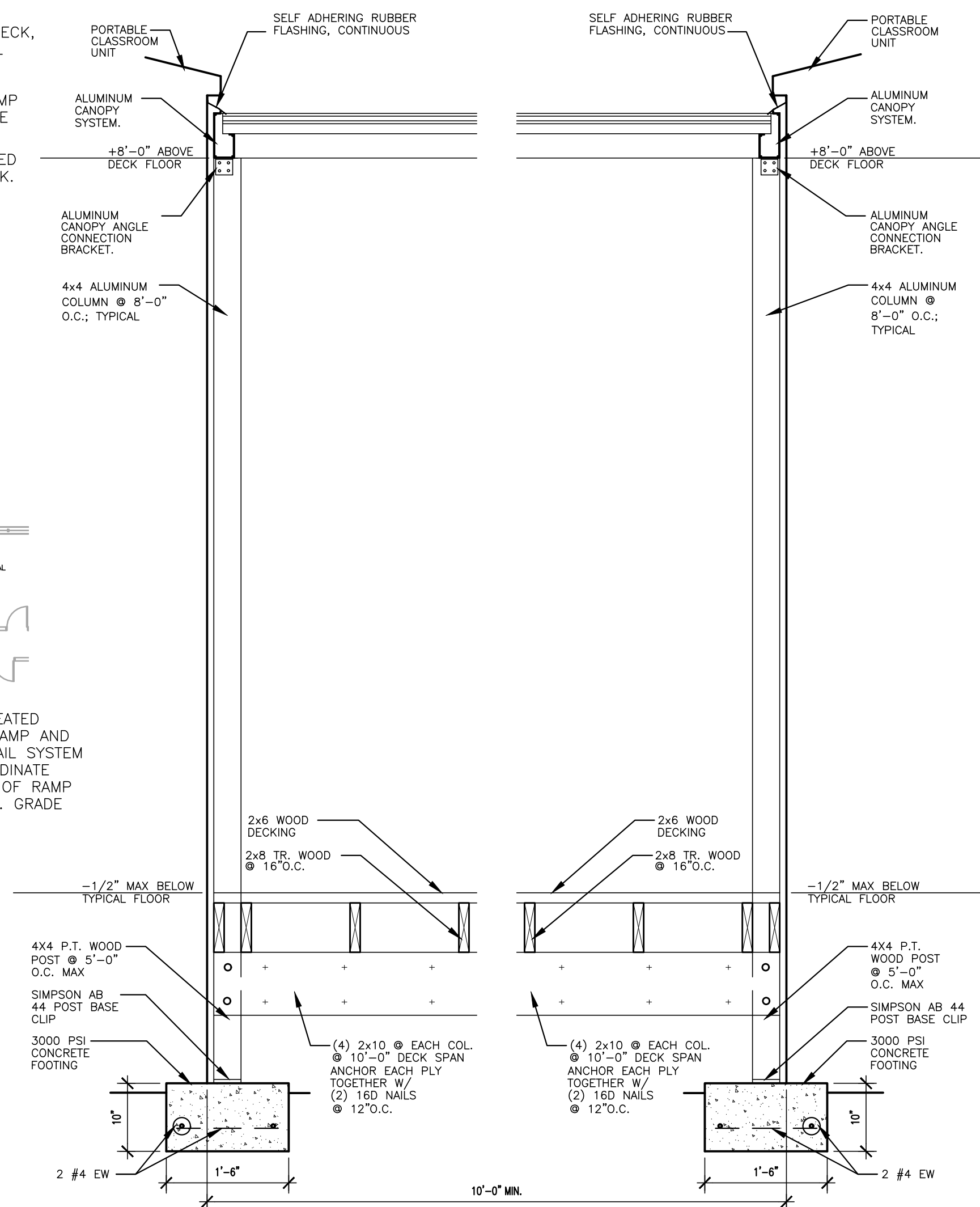
ST. CLAIR COUNTY, ALABAMA



PROJ. MGR.: S. WILSON
DRAWN:
DATE: JANUARY 12, 2023
REVISIONS



1 PORTABLE PLAN LAYOUT
1/16" = 1'-0"



2 TYPICAL WALK DETAIL
1" = 1'-0"



KEY PLAN
N.T.S.

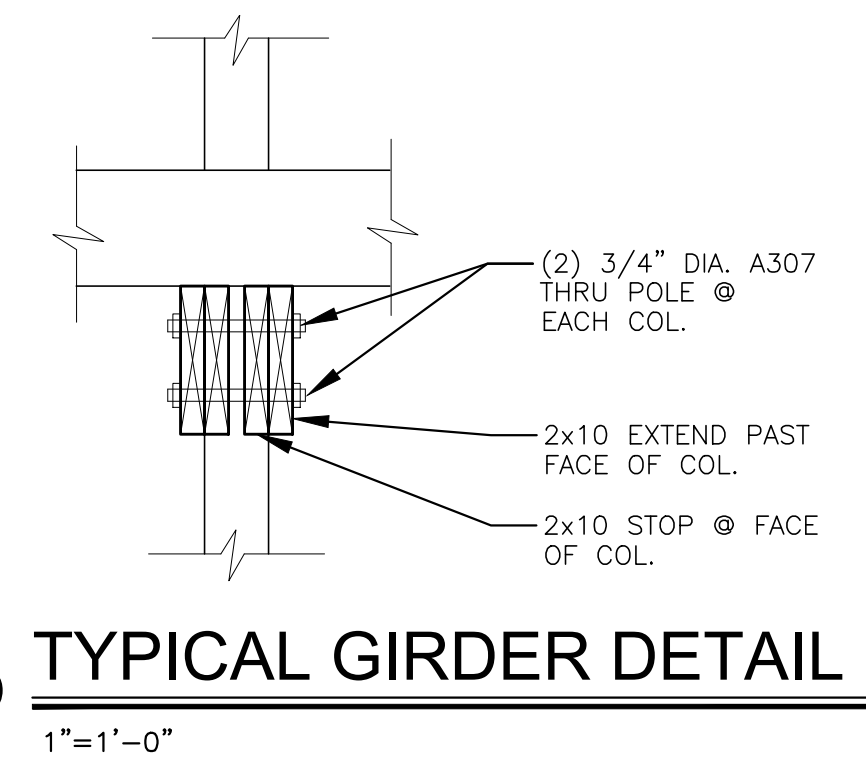
2021 INTERNATIONAL BUILDING CODE RESEARCH		
OCCUPANCY CLASSIFICATION:		GROUP E NS
TYPE OF CONSTRUCTION:		TYPE VB
AREA : SECTION 503.1.2		(6)(581) = 3,486 S.F.
TABLES: 504.4 & 506.2 ALLOWABLE STORIES AND AREA:		ALLOWABLE STORIES: 1 STORIES ALLOWABLE S.F.: 9,500 S.F.
TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:		CONSTRUCTION TYPE: VB STRUCTURAL FRAME: 0 BEARING WALLS: 0 T. 602 EXTERIOR: < 5' 1hr > 5' < 10' 1hr > 10' < 30' 0 > 30' 0 INTERIOR: 0 NONBEARING WALLS: < 5' 1hr T. 602 EXTERIOR: < 5' 1hr > 5' < 10' 1hr > 10' < 30' 0 > 30' 0 INTERIOR: 0 FLOOR CONSTRUCTION: 0 ROOF CONSTRUCTION: 0

CHAPTER 29 - PLUMBING SYSTEMS												EXISTING SCHOOL PLUS 6 PORTABLES	
OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINKS	
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL	
A3	45.30	1/125	.18	1/65	.35	1/200	.11	1/200	.11	1/500	.09		
B	30.60	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.61	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.61	1/40 FIRST 80 1/80 EXCEED 80.	.38	1/40 FIRST 80 1/80 EXCEED 80.	.38	1/100	.31	1	
E	2011.05	1/50	20.11	1/50	20.11	1/50	20.11	1/50	20.11	1/100	10.05		
REQUIRED TOTALS			20.9		21.07		21.6		21.6		10.45	1	
PROVIDED TOTALS			30		30		22		22		11	1	

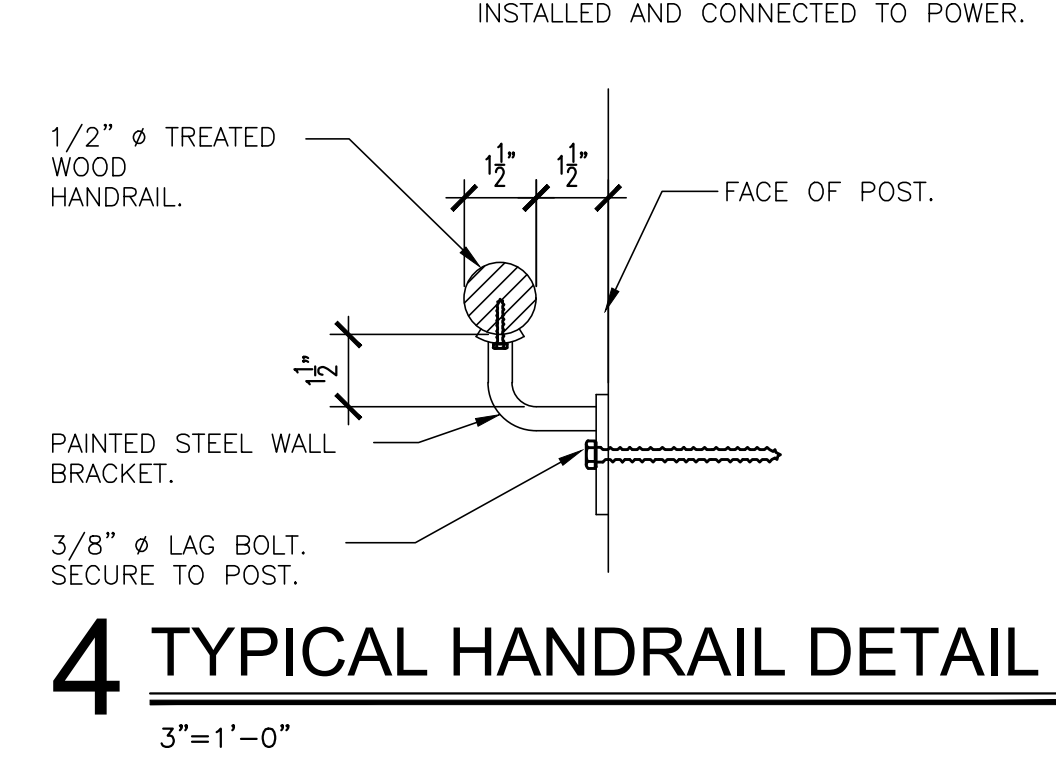
NOTE: EXISTING SCHOOL PLUS 6 PORTABLES. TOILETS PROVIDED IN EXISTING SCHOOL.

LIFE SAFETY LEGEND	
	FIRE EXTINGUISHER AND CABINET
	FEC (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)

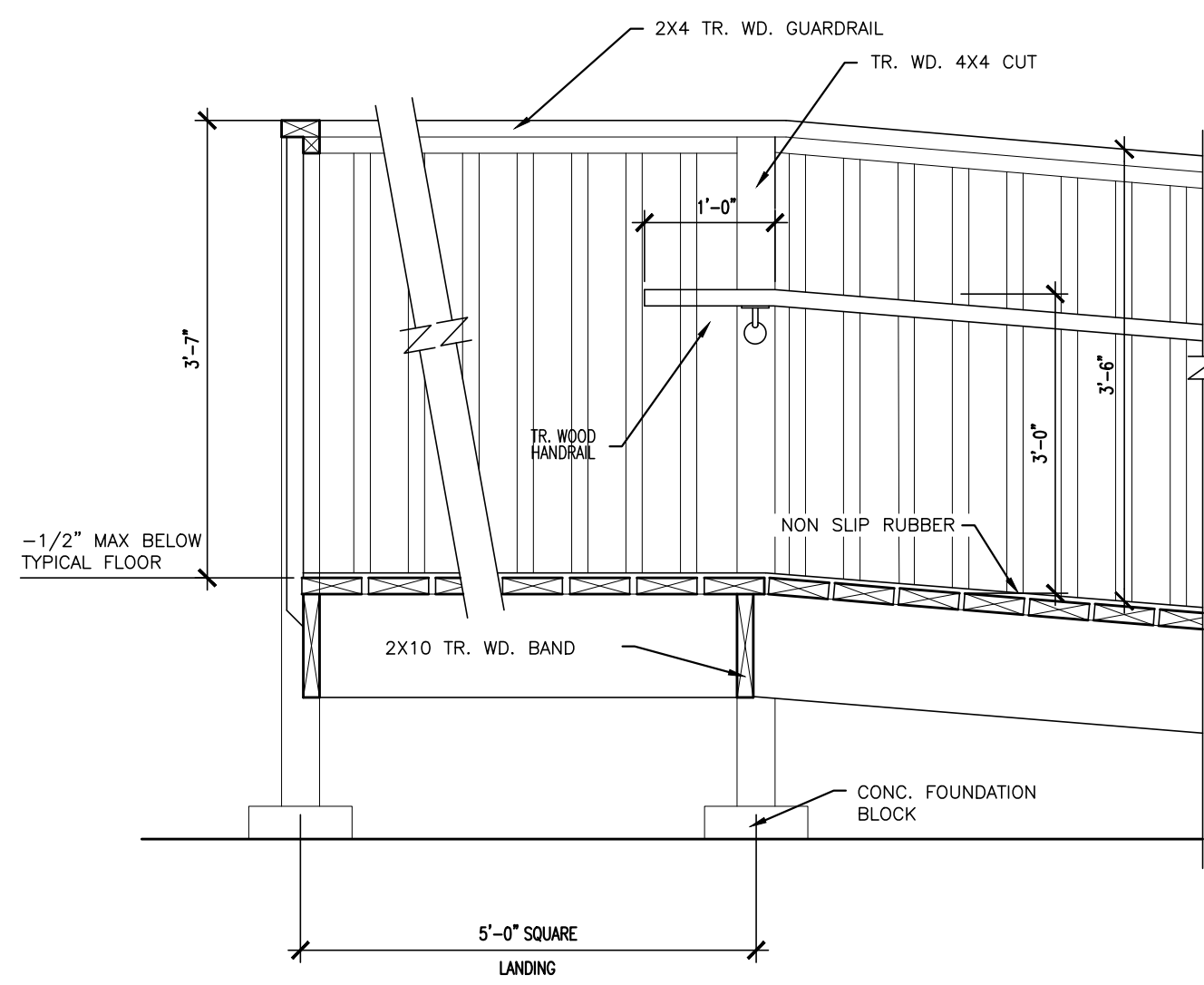
NOTE: PORTABLE CLASSROOM UNITS HAVE PREVIOUSLY BEEN USED FOR CLASSROOM UNITS. UNITS HAVE CAPABILITY OF FRESH AIR. MEASUREMENT AND DOCUMENTATION FOR THE AMOUNT OF OUTSIDE AIR AS WELL AS THE CO2 READINGS SHALL BE PRESENTED TO VERIFY PROPER INDOOR AIR QUALITY ONCE UNITS HAVE BEEN INSTALLED AND CONNECTED TO POWER.



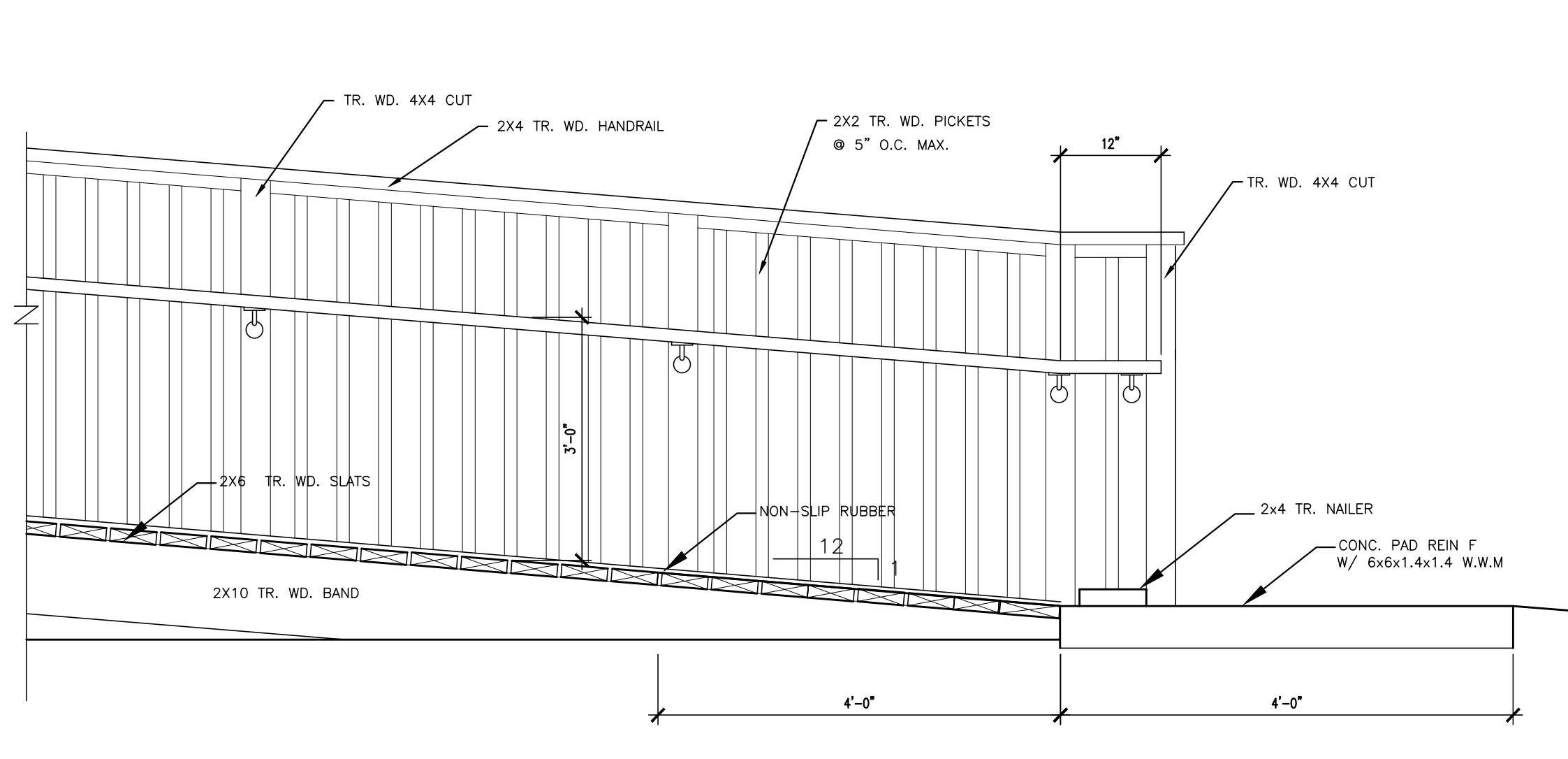
3 TYPICAL GIRDER DETAIL
1" = 1'-0"



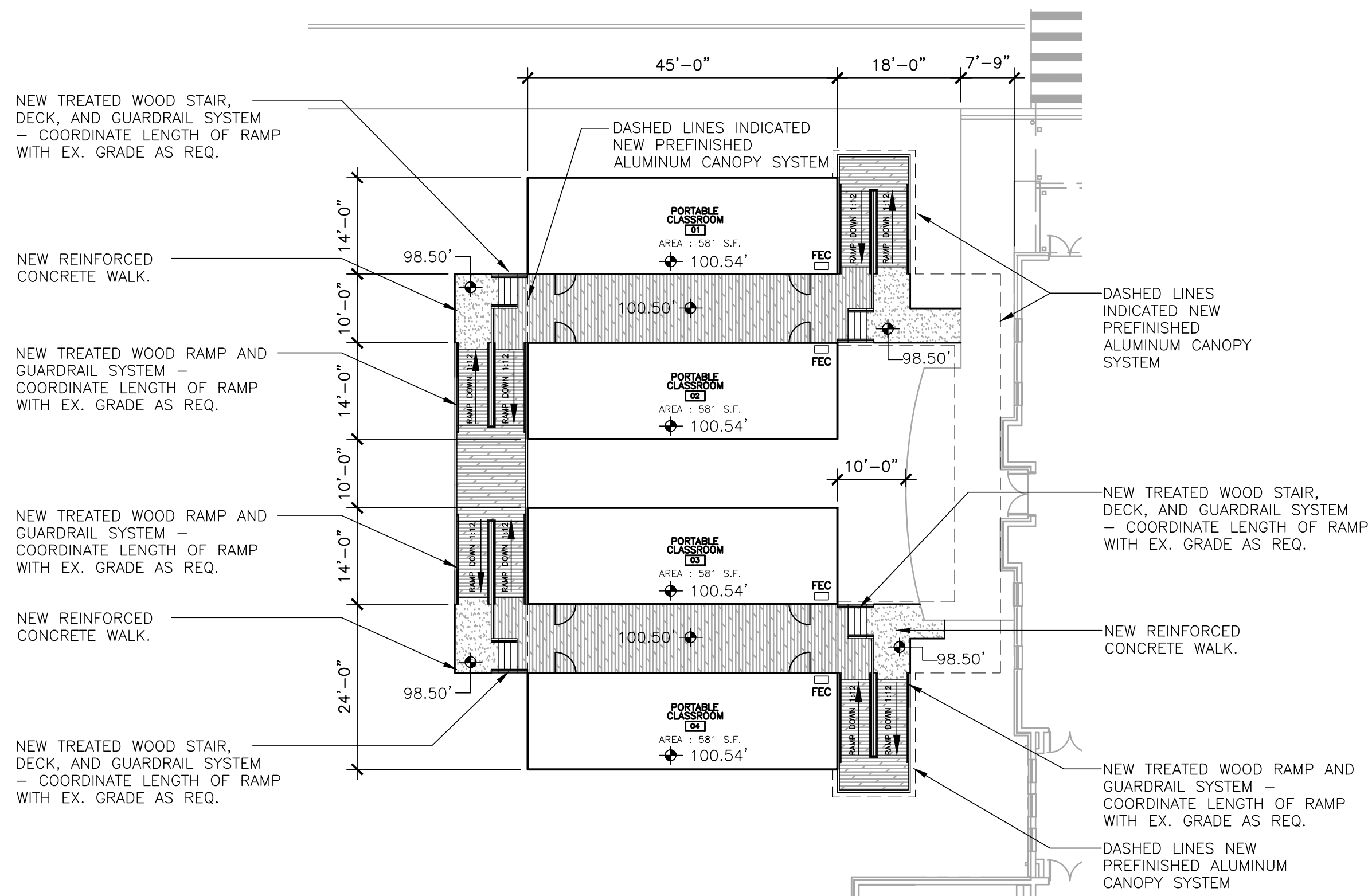
4 TYPICAL HANDRAIL DETAIL
3" = 1'-0"



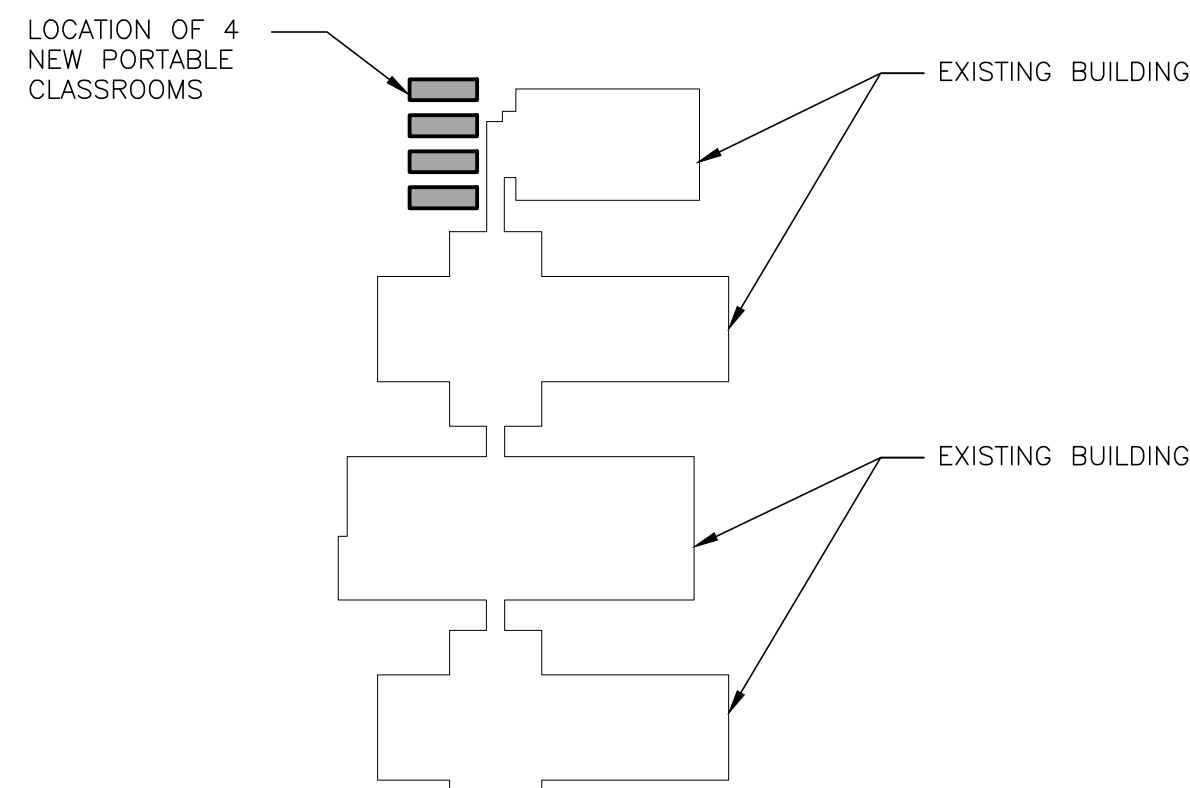
5 TYPICAL RAMP DETAILS
3/4" = 1'-0"



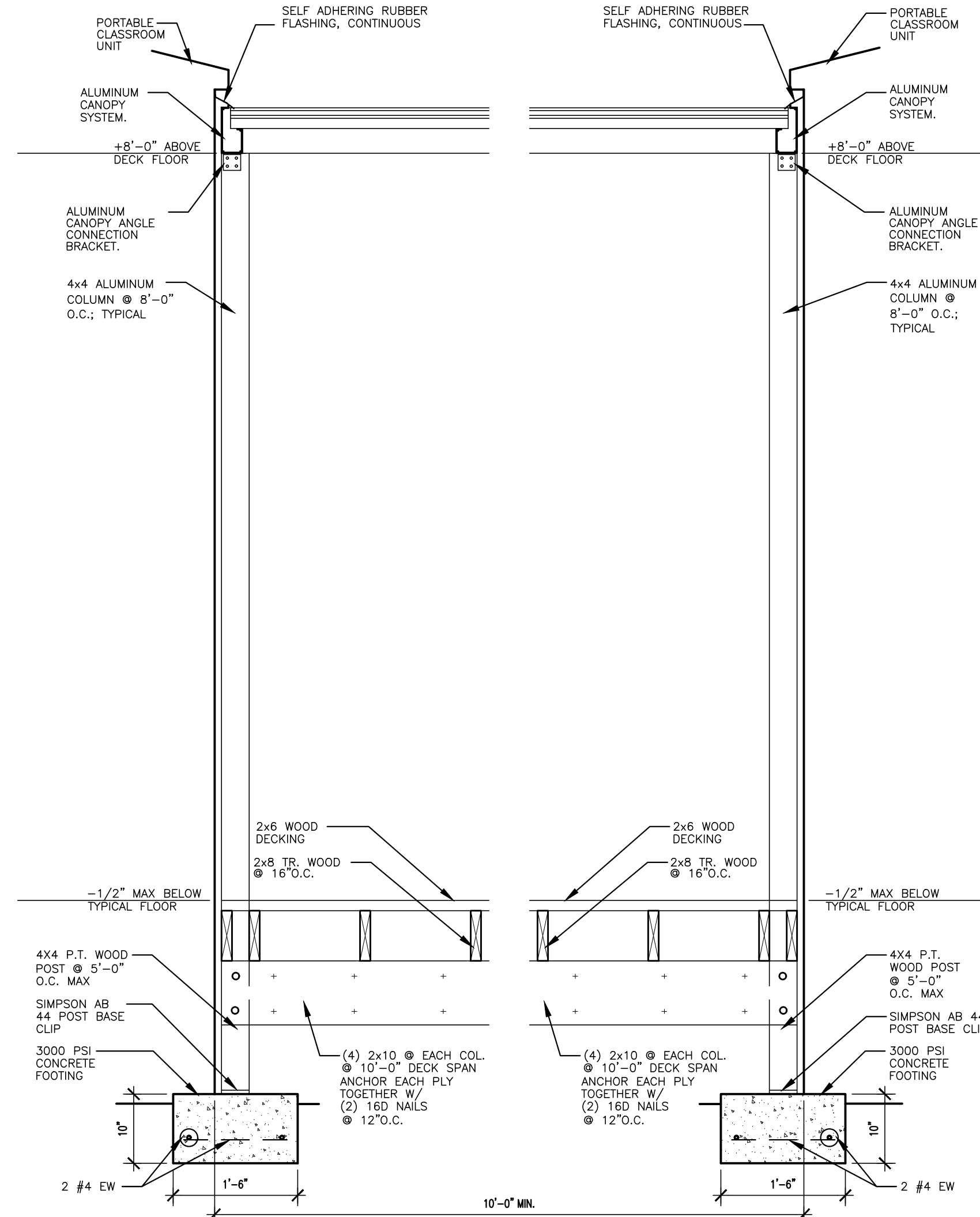
6 TYPICAL STAIR DETAILS
3/4" = 1'-0"



1 PORTABLE PLAN LAYOUT
1/16" = 1'-0"



KEY PLAN
N.T.S.



2 TYPICAL WALK DETAIL
1" = 1'-0"

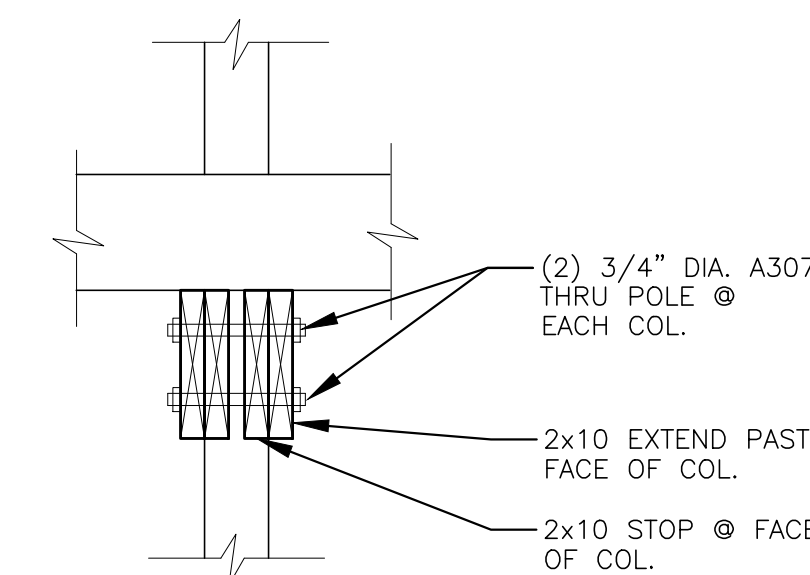
2021 INTERNATIONAL BUILDING CODE RESEARCH		
OCCUPANCY CLASSIFICATION:		GROUP E NS
TYPE OF CONSTRUCTION:		TYPE VB
AREA : SECTION 503.1.2		(4)(581) = 2,324 S.F
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TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:		CONSTRUCTION TYPE: VB STRUCTURAL FRAME: 0 BEARING WALLS: 0 T. 602 EXTERIOR: < 5' 1hr > 5' < 10' 1hr > 10' < 30' 0 > 30' 0 INTERIOR: 0 NONBEARING WALLS: < 5' 1hr > 5' < 10' 1hr > 10' < 30' 0 > 30' 0 INTERIOR: 0 FLOOR CONSTRUCTION: 0 ROOF CONSTRUCTION: 0

CHAPTER 29 - PLUMBING SYSTEMS												EXISTING SCHOOL PLUS 4 PORTABLES	
OCCUPANCY		WATERCLOSETS			LAVATORIES			DRINKING FOUNTAINS		SERVICE SINKS			
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL	
A2	301.33	1/75	2.01	1/75	2.01	1/200	0.75	1/200	0.75	1/500	0.60		
A3	481.87	1/125	1.93	1/65	16.26	1/200	5.27	1/200	5.27	1/500	0.96		
B	41.09	1/25 FIRST 50 1/50 REMANDER EXCEEDING 50.	0.82	1/25 FIRST 50 1/50 REMANDER EXCEEDING 50.	0.82	1/40 FIRST 80 1/80 EXCEED 80.	0.51	1/40 FIRST 80 1/80 EXCEED 80.	0.51	1/100	0.41	1	
E	1477.45	1/50	14.77	1/50	14.77	1/50	14.77	1/50	14.77	1/100	7.39		
REQUIRED TOTALS			19.53		21.3		17.24		17.24		9.36	1	
PROVIDED TOTALS			20		21		20		21		10	1	

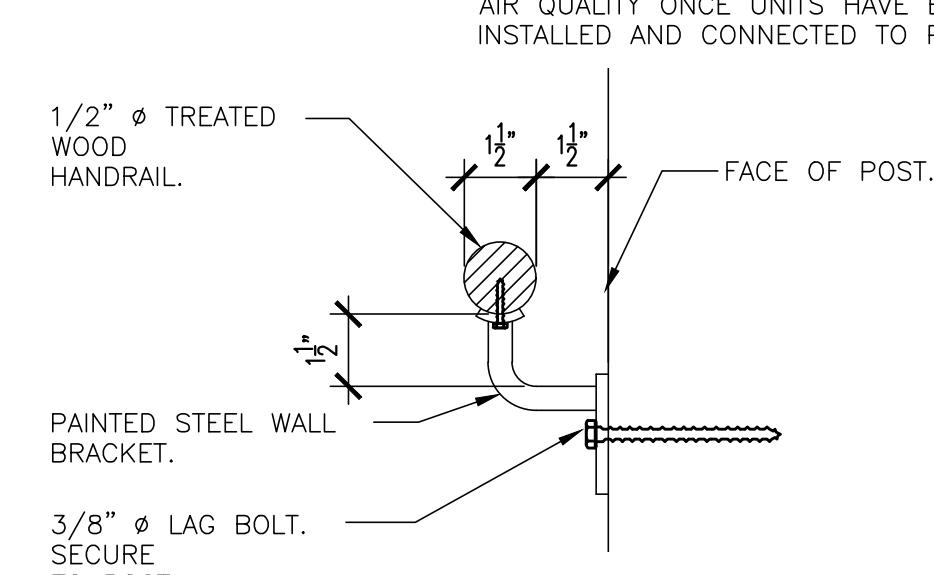
NOTE: EXISTING SCHOOL PLUS 4 PORTABLES. TOILETS ARE PROVIDED IN EXISTING SCHOOL.

LIFE SAFETY LEGEND	
	FIRE EXTINGUISHER AND CABINET
FEC	(PROVIDE FIRE RATED CABINETS IN RATED WALLS.)

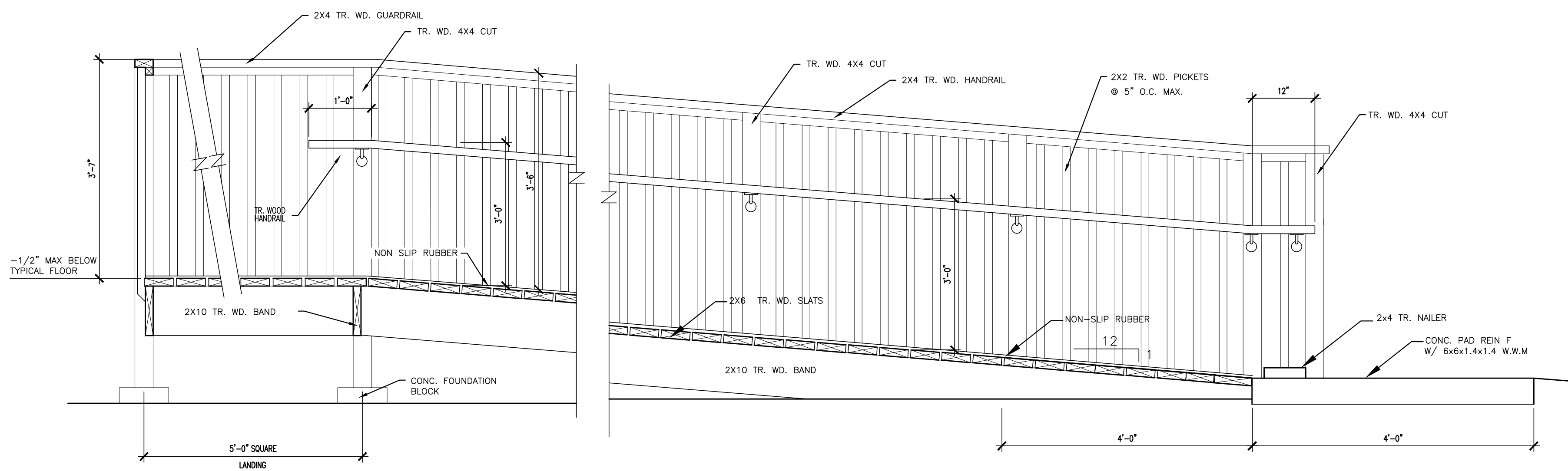
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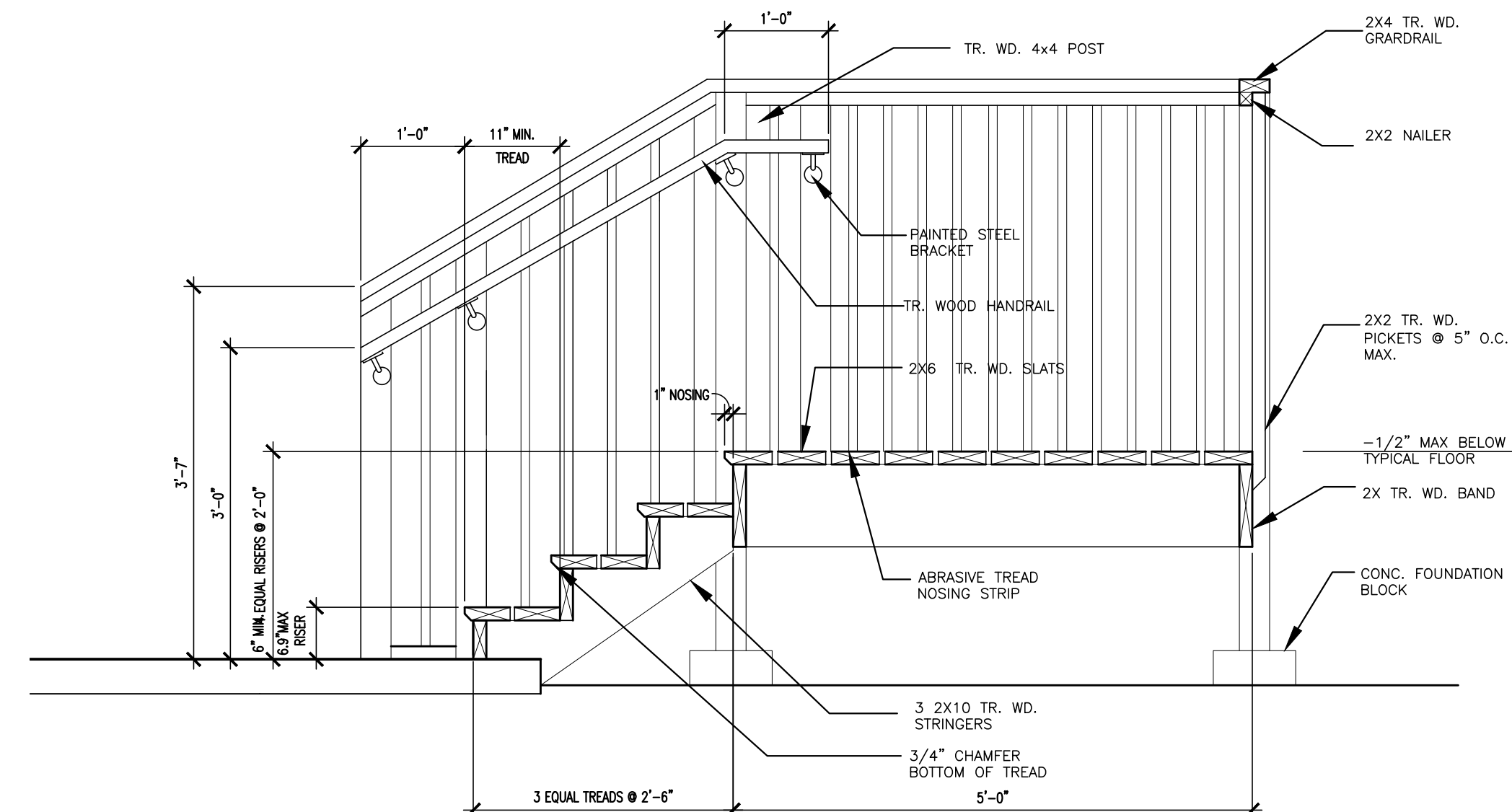
3 TYPICAL GIRDER DETAIL
1" = 1'-0"



4 TYPICAL HANDRAIL DETAIL
3" = 1'-0"



5 TYPICAL RAMP DETAILS
3/4" = 1'-0"



6 TYPICAL STAIR DETAILS
3/4" = 1'-0"

LATHAN ARCHITECTS

LATHAN • BRYANT • CALMA

NEW PORTABLE CLASSROOMS FOR
SPRINGVILLE ELEMENTARY SCHOOL
AND MARGARET ELEMENTARY SCHOOL
ST. CLAIR COUNTY BOARD OF EDUCATION

STATE OF ALABAMA

No. 3385

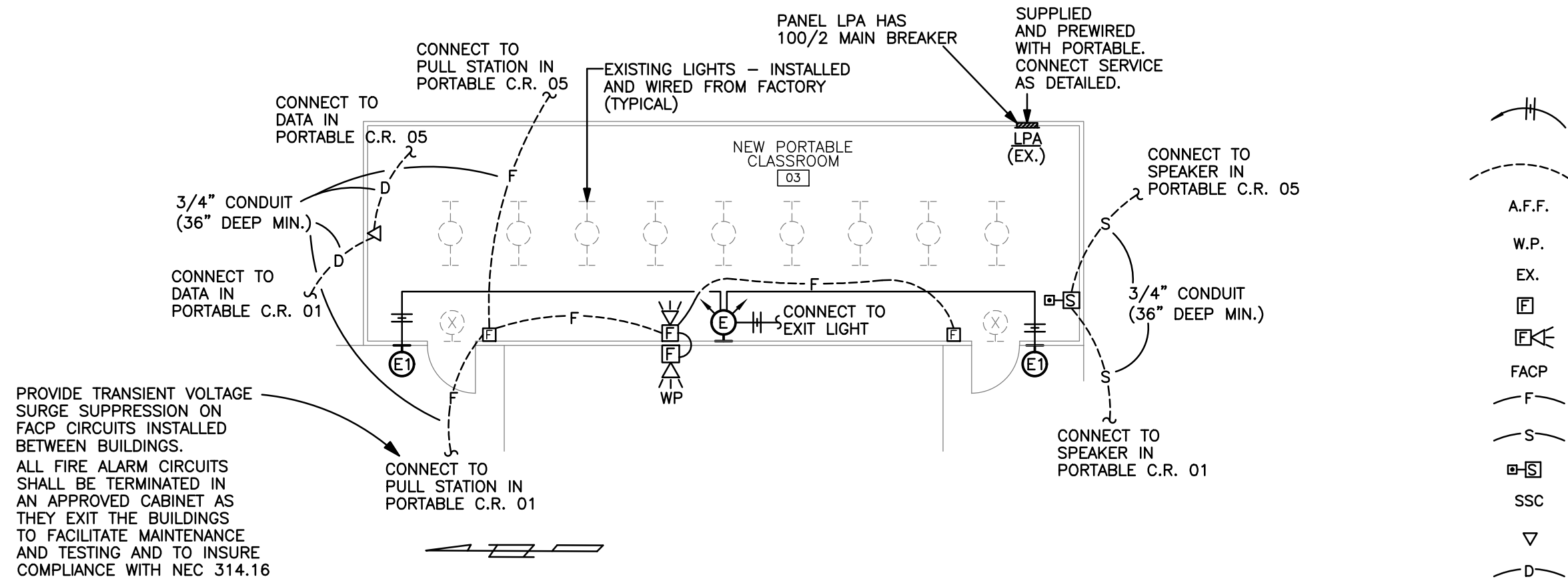
RICK N. LATHAN

REGISTERED ARCHITECT

SHEET TITLE:
MARGARET ELEMENTARY
SCHOOL

PROJ. MGR.: S. WILSON
DRAWN:
DATE: JANUARY 12, 2023
REVISIONS

JOB NO. 22-68
SHEET NO:
A2
3 OF 3
0 1" 2'



CLASSROOM TRAILER FLOOR PLAN

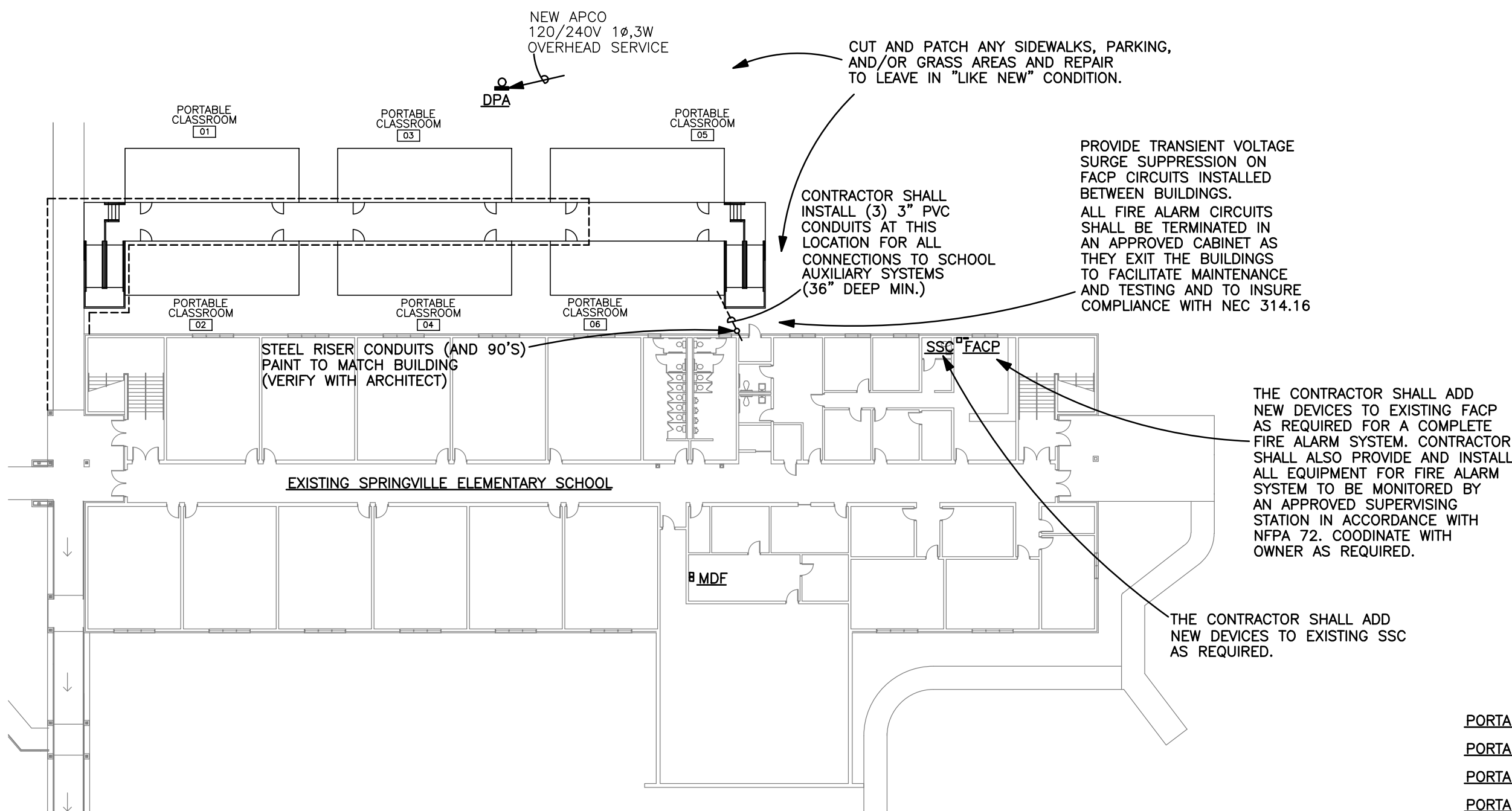
SCALE: 1/8" = 1'-0"

NOTE:

PORTABLE CLASSROOMS 01 THRU 06 ARE SIMILAR

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	REMARKS
			NO.	WATTS	TYPE			
E	LITHONIA	ELM-SD-120	FURNISHED WITH FIXTURE			+8' A.F.F.	BRACKET	CONNECT TO UNSWITCHED HOT LEG AS SHOWN
E1	LITHONIA	ELA-T-QWP-120	FURNISHED WITH FIXTURE			+8' A.F.F.	BRACKET	CONNECT TO UNSWITCHED HOT LEG AS SHOWN



SITE PLAN

SCALE: 1" = 30'

ELECTRICAL SYMBOLS

HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT.
3 # 12 & 1 # 12(G) - 3/4" CONDUIT. 4 # 12 & 1 # 12(G) - 3/4" CONDUIT.

CONDUIT OR CABLE CONCEALED IN FLOOR OR GROUND

ABOVE FINISHED FLOOR.

WEATHER PROOF

EXISTING

FIRE ALARM - MANUAL PULL STATION - SEE SPEC.

FIRE ALARM - STROBE LIGHT/HORN - SEE SPEC.

FIRE ALARM CONTROL PANEL - EXISTING

FIRE ALARM SYSTEM - WIRING IN 3/4" CONDUIT - SEE SPEC.

SOUND SYSTEM - WIRING IN 3/4" CONDUIT - SEE SPEC.

SOUND SYSTEM - COMBINATION SPEAKER WITH CALL-IN SWITCH BY DUKANE - SEE SPEC.

SOUND SYSTEM CONSOLE - EXISTING

COMPUTER SWITCH - CONTRACTOR TO INSTALL COMPUTER SWITCH (CONNECT WITH FIBER CABLE)

COMPUTER FIBER CABLE - CABLING IN 3/4" CONDUIT - ALL SUPPLIED AND INSTALLED BY CONTRACTOR

PANELBOARD SCHEDULE

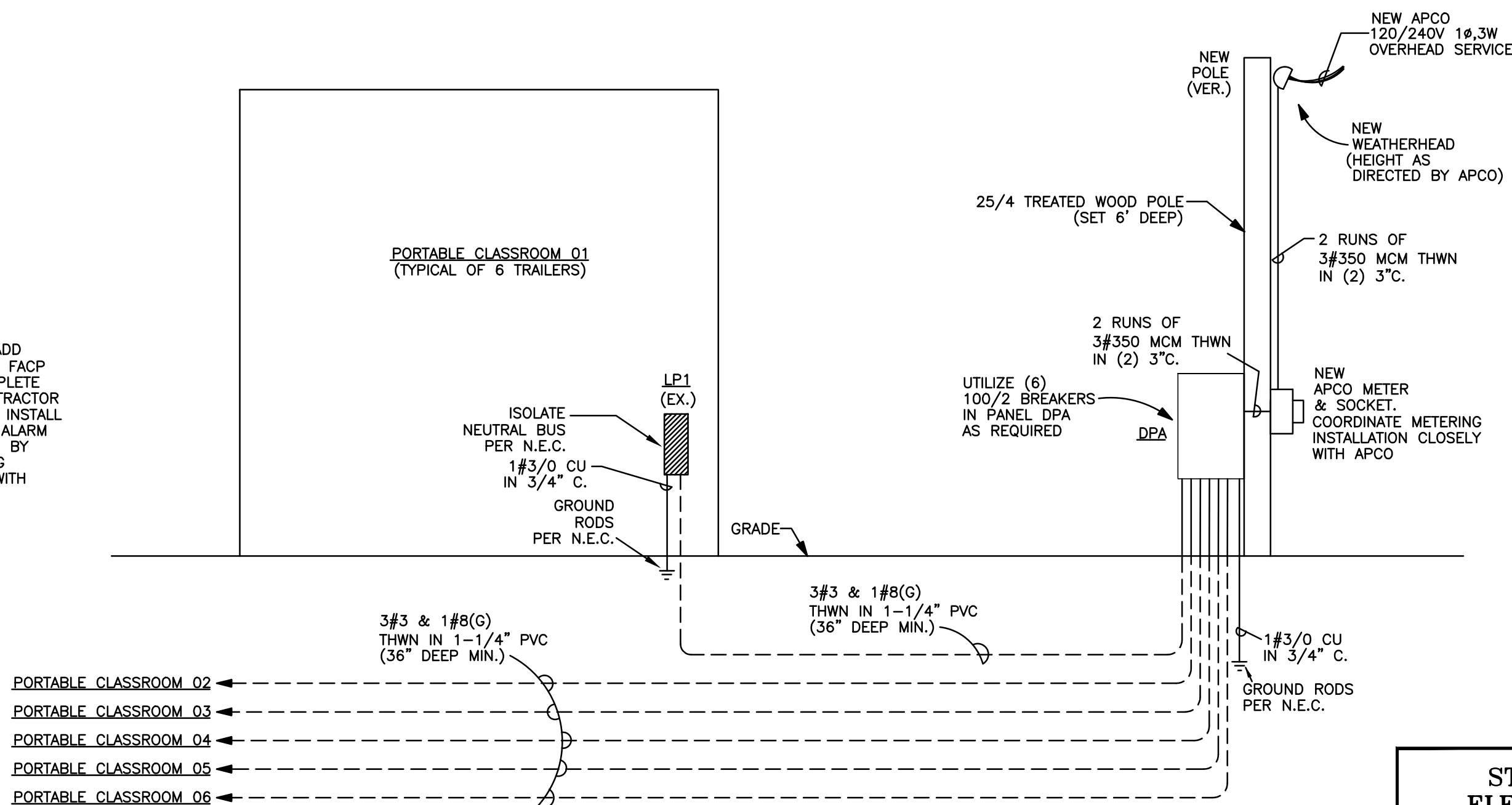
MARK	TYPE	MAINS			BRANCHES					LVG LOCATION	TYPE MOUNTING	AREA PANEL LOCATED	AVAILABLE FAULT CURRENT	REMARKS
		TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES					
DPA	I-LINE	M/B	600	120/240V 1ø, 3W		6-100		6-20/1	6-2PS	TOP	SURFACE	EXTERIOR	10,000	SEE NOTE 1, 2, 3, & 4 NEMA 3R

NOTES:

- ALL PANELBOARDS SHALL BE CAPABLE OF WITHSTANDING AND INTERRUPTING THE AVAILABLE FAULT CURRENTS AS LISTED ABOVE.
- ALL PANELBOARDS SHALL HAVE MICARTA LABELS SHOWING PANELBOARD DESIGNATION, AND OPERATING VOLTAGE. I-LINE PANELBOARDS SHALL ALSO HAVE MICARTA LABELS AT EACH BREAKER.
- SHALL BE RATED FOR SERVICE ENTRANCE EQUIPMENT.
- NO SERIES RATING WILL BE ALLOWED ON ANY PANELBOARDS.

PANELBOARD NOTES:

- MANUFACTURER OF SWITCHBOARDS AND/OR PANELBOARDS SHALL PERFORM FAULT CURRENT CALCULATIONS, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS, AND LABEL ALL SWITCHBOARDS AND/OR PANELBOARDS, IN ACCORDANCE WITH NFPA 70E-2009 (ARTICLE 130) AND NFPA 70-2008 (ARTICLE 110.16).
- CONTRACTOR SHALL FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT PER NEC 110.24.
- CONTRACTOR SHALL FIELD MARK ELECTRICAL EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES WHERE EACH PANEL IS SERVED FROM (I.E. PANEL PPA IS FED FROM PANEL MPD) AS PER NEC 408.4(B).

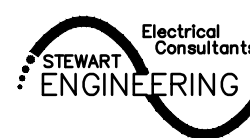


ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.

STEWART ENGINEERING ELECTRICAL CONSULTANTS

P.O. Box 2233 (36202)
300 East 7th Street (36207)
Anniston, Alabama
Phone: 256/237-0891
Fax No.: 256/237-1077
Email: services@stewartengineering.org



Engineer:

J. Lance Junkin, P.E.
Alabama Reg. 14817

Project Number:

2281

SHEET TITLE:

SPRINGVILLE ELEMENTARY
SCHOOL - ELECTRICAL

PROJ. MGR.: LANCE JUNKIN

DRAWN: SEC

DATE: JANUARY 12, 2023

REVISIONS

JOB NO. 22-68

SHEET NO:

E1.1

1 OF 2

