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<b>CLARK KENNEKES EN</b> <b>SSSEA</b> U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS MOBILE AREA COMMAND DRAFTED BY: DAVID C. COOPER DATE: 09-26-2021 SHEET NO.: 1 SHEET SIZE: 28 of 442																																																																							
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**A** **B** **C** **D** **E** **F** **G** **H**

**A2** **TYPICAL ROOF DECK FASTENER SCHEDULE** **(NOT TO SCALE)**

**A4** **TYPICAL JOIST REINFORCEMENT** **(NOT TO SCALE)**

**C4** **TYPICAL REBAR LAP SPLICE SCHEDULE** **(NOT TO SCALE)**

BAR SIZE	EMBEDMENT LENGTH (in.)	TENSION LAP SPICE LENGTH (in.)	NOTES
#3	22"	17"	1. LENGTH INDICATED HERE ARE BASED ON ACI-318-14, 25.4.2 WITH MATERIAL PROPERTIES OF #600 KSL f <sub>c</sub> =3000 psi.
#4	29"	22"	2. TWO BARS ARE ANY HORIZONTAL BARS POSITIONED WHERE 12" OR MORE OF CONCRETE IS CAST BELOW.
#5	36"	28"	3. SLICE LENGTHS INDICATED ARE CLASS B TENSION LAP SPICES CLEAR SPACING.
#6	43"	33"	4. THESE LENGTHS ARE FOR SPACINGS AND STIRRUP SPACINGS THAT ARE STEPS UP TO 12" THROUGHOUT THE SLICE LENGTH. THEY ARE NOT LESS THAN TWO BAR DIAMETERS AND A CLEAR SPACING NOT LESS THAN TWO BAR DIAMETERS. LAP SPICE LENGTHS FOR BARS WITH CLOSER SPACING OR LESS CLEAR OVER-SHALL BE CALCULATED BY ACI-318-14, 25.4.2.2.
#7	53"	48"	
#8	72"	55"	

**C6** **TYPICAL SLAB-ON-GROUND REMOVAL & REPAIR DETAIL** **(NOT TO SCALE)**

STRUCTURAL ELEMENT	COVER	NOTES:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH #6 BARS OR SMALLER	3"	1. REMOVE EXISTING CONCRETE FOR INSTALLATION OF UTILITIES SHOWN ON MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. REMOVE OUTLINED AREA WHERE UTILITY LINE IS TO BE REMOVED AND/OR REINFORCED.
CONCRETE EXPOSED TO WEATHER #6 BARS OR SMALLER	2"	2. CONCRETE TO BE EXCAVATED MATERIAL WITH IMPORTED STRUCTURAL FILL OR FLOWABLE CONCRETE FILL IF REQUIRED.
CONCRETE NOT EXPOSED TO WEATHER OR CONTACT WITH GROUND	1 1/2"	3. ADD CAPILLARY WATER BARRIER, COAT WITH VAPOR BARRIER.
		4. COAT EXISTING SLAB EDGES WITH BONDING AGENT.
		5. DOWELS INTO EXISTING SLAB SHALL BE 44.8° @ 36" MAX. O.C. SET 4" IN EPOXY ADHESIVE.
		6. PLACE NEW CONCRETE, FILLING UNDERCUT.

**F2** **TYPICAL LARGE OPENING IN EXISTING ROOF DECK** **(NOT TO SCALE)**

**F4** **TYPICAL FRAMING AT NEW ROOF OPENING** **(NOT TO SCALE)**

**S2** **CLARKE NEXSEN**

U.S. ARMY ENGINEER BOARD'S MOBILE ALARMERS	DATA SHEET	DESIGNED BY	STRUCTURE	STRUCTURAL ENGINEER	DATE
ARM-C - 9640 REINNOVATION AL	06-28-2017	EE-101	EE-101	EE-101	06-28-2017

**S3** **TYPIAL DETAILS**

STRUCTURE	STRUCTURAL ENGINEER	DATE
STRUCTURE	EE-101	06-28-2017

**S4** **IDENTIFICATION**

**S-003**

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C:\Users\hooks\Documents\20002-S\adam.hooks@seasinc.com.vt

**US Army Corps of Engineers**  
Mobile Alameda

**CLARK KNEESEN**  
Design by: SSSA Date: 06-29-2021  
Reviewed by: SSSA Date: 07-22-2021  
Approved by: SSSA Date: 07-22-2021

**ARTC - B640 REINFORCEMENT AL**  
U.S. ARMY ENGINEER DISTRICT  
MOBILE ALABAMA  
SRR: 06-29-2021  
LSU: Sheet E8 Name: G-022

**TYPICAL DETAILS**

**SHEET 30 of 442**

**IDENTIFICATION**  
**S-004**

**A** **B** **C** **D** **E** **F** **G** **H**

**1** **2** **3** **4** **5** **6**

**(A2) TYPICAL SLAB ON GROUND** **(NOT TO SCALE)**

**(C2) TYPICAL DEPRESSED SLAB ON GROUND** **(NOT TO SCALE)**

**(F2) TYPICAL HOUSEKEEPING PAD** **(NOT TO SCALE)**

**NOTES:**  
1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SPECIFIC LOCATION FOR HOUSEKEEPING PADS.

**(G6) TYPICAL JOINT AT CHANGE IN SLAB THICKNESS** **(NOT TO SCALE)**

**NOTE:**  
1. THESE JOINTS ARE LABELED "C" ON PLANS. CONTRACTOR SHALL ESTABLISH CONSTRUCTION JOINTS BASED ON THE LENGTH OF CONCRETE ELEMENT, UNLESS INDICATED OTHERWISE.  
2. REMOVE ALL JOINT FORMWORK PRIOR TO SECOND CONCRETE PLACEMENT.

**(C6) TYPICAL SLAB ON GROUND JOINTS** **(NOT TO SCALE)**

**NOTES:**  
1. VERTICAL SURFACE SUCH AS COLUMN, FEETSTAL, FOUNDATION WALLS, GRADE BEAMS OR WHERE INDICATED, PREBOLTED JOINT FILLER STRIP.  
2. FOR A WIDTH 1/2" WIDE, 3/4" DEEP WOOD STRIPE REMOVE, THEN PLACE SEALING COMPOUND.

SHEET 31 of 442

1		NOT TO SCALE
2	<u>TYPICAL BED JOINT REINFORCEMENT AT CMU WALL CORNER</u>	
3		
4		
5		
6		

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darmbooks@seasite.com.tw

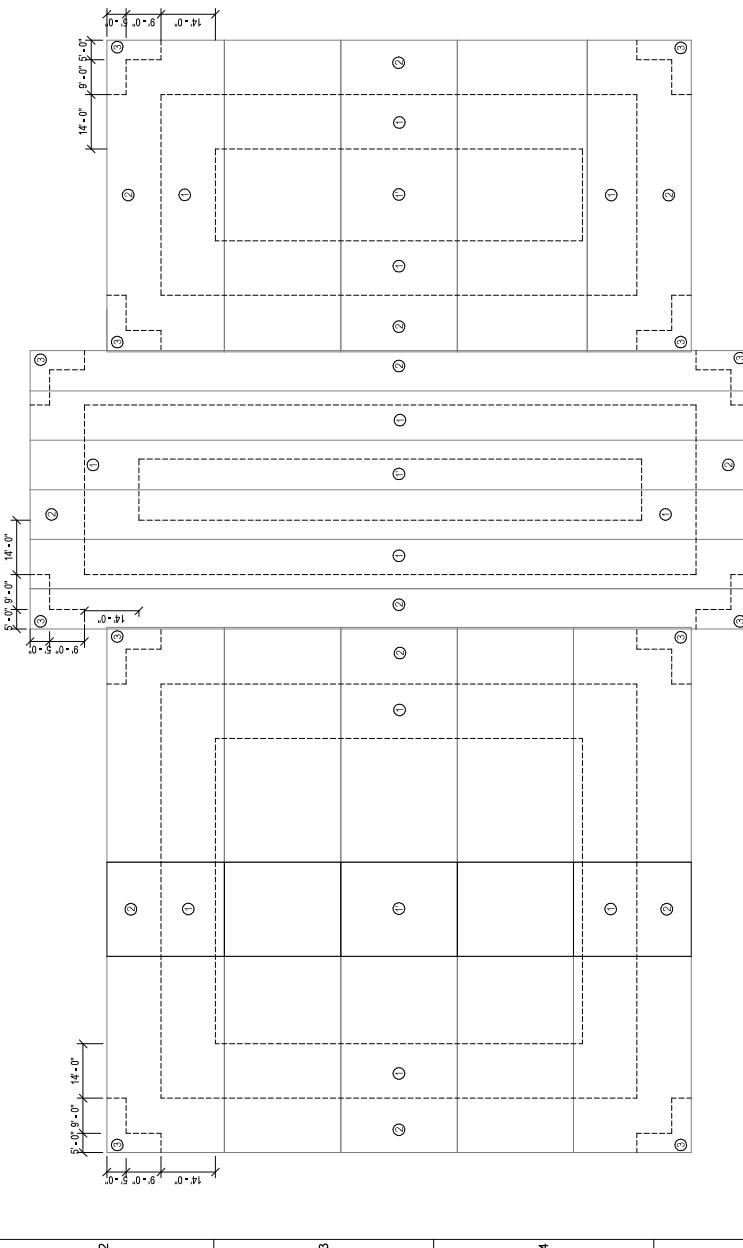


US Army Corps  
of Engineers  
Mobile District

A circular stamp with a decorative border containing the text "PROFESSIONAL ENGINEER" at the top and "DAVID C. COLLIER" at the bottom. The date "06/29/98" is stamped in the center. A large, handwritten signature "David C. Collier" is written across the center of the stamp.



The logo consists of the words "PLAN NORTH" stacked vertically next to a circular arrow icon.



ZONE	SERVICE WIND PRESSURES
①	-15 PSF
①	-25 PSF
②	-35 PSF
③	-45 PSF

THIS DIAGRAM IS INTENDED FOR USE BY THE ROOFING SYSTEM SUPPLIER TO DETERMINE THE ATTACHMENT OF THE ROOFING ASSEMBLY, INCLUDING ALL MATERIALS ABOVE THE STEEL STRUCTURAL DECK. DASHED LINES SHOW ZONE BOUNDARIES. INDICATED PRESSURES ARE FREE SERVICE LOADS, CALCULATED PER ASCE 7-16, CHAPTER 30, FOR AN ULTIMATE DESIGN WIND SPEED OF 107 MPH PER UFC 3-01-Q WITH COEFFICIENT APPLIED. INDICATED PRESSURES ARE FROM LOAD COMBINATION 0.8W.

**A6** WIND UPLIFT PRESSURES AT ROOF  
NOT TO SCALE

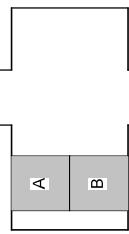
WIND UP  
A6

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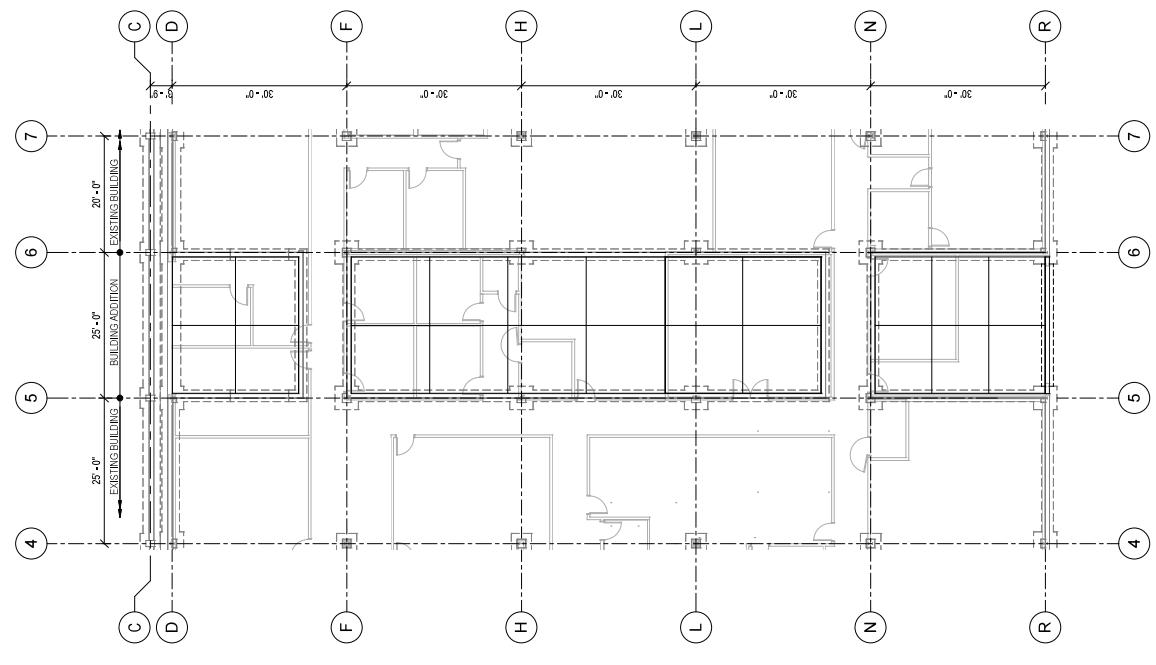
FOUNDATION AND SLAB ON GROUND  
PLAN - COMPOSITE

**S-111**



FOUNDATION AND SLAB KEY PLAN

SCALE:  $3/32 = 1-0'$



(A6) FOUNDATION AND SLAB ON GROUND PLAN - COMPOSITE  
 SCALE: 36'0" = 1'-0"

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6/29/2021 2:11:01 PM