

**From:** [John Morris](#)  
**To:** [Mandy Mullins](#)  
**Cc:** [Kathi L. Shotwell](#)  
**Subject:** RE: RFQ Email Request.pdf POR 2022-00001660  
**Date:** Monday, March 28, 2022 10:39:21 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
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[county\\_news\\_150ppi\\_14250fe5-78c3-4aa5-b059-283cc85fd4ea.png](#)

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Sent to four vendors,  
Joyner Construction  
Bliss Products  
JE Decker Construction  
RJ Cameron

---

**From:** Mandy Mullins  
**Sent:** Monday, March 28, 2022 10:35 AM  
**To:** John Morris <jmorris@alachuacounty.us>  
**Cc:** Kathi L. Shotwell <kshotwell@alachuacounty.us>  
**Subject:** RE: RFQ Email Request.pdf POR 2022-00001660

This was sent to how many vendors?

Mandy

---

**From:** John Morris  
**Sent:** Monday, March 28, 2022 10:32 AM  
**To:** Mandy Mullins <[mmmullins@alachuacounty.us](mailto:mmmullins@alachuacounty.us)>  
**Cc:** Kathi L. Shotwell <[kshotwell@alachuacounty.us](mailto:kshotwell@alachuacounty.us)>  
**Subject:** RE: RFQ Email Request.pdf POR 2022-00001660

One response.

We did not have a site visit.



**John Morris, PMP**

Contracts and Project Coordinator  
Parks and Open Space  
5620 NW 120th Lane • Gainesville • FL • 32653  
352-548-1219 (office)



PLEASE NOTE: Florida has a very broad public records law (F.S.119).  
All e-mails to and from County Officials and County Staff are kept as public records. Your e-mail

communications, including your e-mail address, may be disclosed to the public and media at any time.

---

**From:** Mandy Mullins

**Sent:** Monday, March 28, 2022 10:31 AM

**To:** John Morris <[jmorris@alachuacounty.us](mailto:jmorris@alachuacounty.us)>

**Cc:** Kathi L. Shotwell <[kshotwell@alachuacounty.us](mailto:kshotwell@alachuacounty.us)>

**Subject:** RFQ Email Request.pdf POR 2022-00001660

**Importance:** High

John, how many responses did you receive? Did you have a site visit?

Mandy



**Mandy Mullins**

Procurement Agent 1

Procurement

12 SE 1st St. 3rd floor • Gainesville • Florida • 32601

352-384-3090 (office) • 491-4569 (fax)

352-384-3090 (Direct)



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## John Morris

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**From:** John Morris  
**Sent:** Monday, March 7, 2022 8:30 AM  
**To:** Richard Wagner; dewitt@blissproducts.com; Chris Decker (chrisd@jedeckerconstruction.com); randy@rjcameron.net  
**Cc:** John Sixbey; Jessica Allen; Jason Maurer; Mandy Mullins  
**Subject:** ADDENDUM ONE - Clarification / Addendum number ONE - RE: Request For Quote - Alachua County Parks and Open Space  
  
**Importance:** High

### Addendum Number One

The deadline shown in the RFQ document listed "2:00 pm, Monday March 9th, 2022."

The deadline is being moved to be : 2:00 pm, Wednesday March 16th, 2022."

**End of Addendum.**

John

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**From:** John Morris  
**Sent:** Wednesday, February 23, 2022 11:05 AM  
**To:** Richard Wagner <richardw@joyner-construction.net>; dewitt@blissproducts.com; Chris Decker (chrisd@jedeckerconstruction.com) <chrisd@jedeckerconstruction.com>; randy@rjcameron.net  
**Cc:** John Sixbey <johns@joyner-construction.net>; Jessica Allen <jessica@blissproducts.com>; Jason Maurer <jmaurer@alachuacounty.us>; Mandy Mullins <mmmullins@alachuacounty.us>  
**Subject:** Request For Quote - Alachua County Parks and Open Space

Hello, my name is John Morris and I am the Contracts and Project Coordinator for Alachua County Parks and Open Space. Please find attached a Request For Quotes, RFQ and associated documents for a project located at Santa Fe Lake Park, 24500 NE SR 26, Melrose, FL 32666.

Please direct any questions directly to myself at [jmorris@alachuacounty.us](mailto:jmorris@alachuacounty.us) . I will respond with either and addendum to all bidders or indication that the information provided via this email should be sufficient to answer your question.

I am requesting Lump Sum pricing from your company for Site work, permitting, septic system and coordination of delivery and connection of a pre-cast restroom building. This is being done for a prefabricated, site assembled concrete restroom at Santa Fe Lake Park that will be installed / assembled by Leesburg Concrete.

The building comes in sections on a flatbed and is assembled with the use of a crane, similar to tilt wall assembly. The building is by Leesburg Concrete and is in production and will be delivered and assembled on a rock bed per the attached plans. The building vendor advises me that the time to complete the building once it arrives on the prepared site is approximately four weeks.

Based on the attached plans the vendor shall get all required permits, handle site preparation and septic installation and coordinate with Sunshine Plumbing and Gibson electric on connections to the building footprint.

The water line from the water meter to the building footprint is being handled by Sunshine Plumbing. Vendor shall coordinate the water line to facilitate connection.

The electrical wiring connection from the power pole to the building footprint is being handled by Gibson Electric. Vendor shall coordinate the conduit to facilitate connection.

**John Morris, PMP**

Parks and Open Space

Contracts and Project Coordinator

[12 SE 1st Street, Gainesville 32601](#)

[352.548.1219](#)



**John Morris, PMP**

Contracts and Project Coordinator

Parks and Open Space

5620 NW 120th Lane • Gainesville • FL • 32653

352-548-1219 (office)



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## John Morris

---

**From:** John Morris  
**Sent:** Wednesday, February 23, 2022 11:05 AM  
**To:** Richard Wagner; dewitt@blissproducts.com; Chris Decker (chrisd@jedeckerconstruction.com); randy@rjcameron.net  
**Cc:** John Sixbey; Jessica Allen; Jason Maurer; Mandy Mullins  
**Subject:** Request For Quote - Alachua County Parks and Open Space  
**Attachments:** Restroom 6 user- Volusia County 10-7-21.pdf; Santa Fe Civil.pdf; Santa Fe Lake Park Map Links.docx; RFQ Template\_SF.doc

Hello, my name is John Morris and I am the Contracts and Project Coordinator for Alachua County Parks and Open Space. Please find attached a Request For Quotes, RFQ and associated documents for a project located at Santa Fe Lake Park, 24500 NE SR 26, Melrose, FL 32666.

Please direct any questions directly to myself at [jmorris@alachuacounty.us](mailto:jmorris@alachuacounty.us). I will respond with either an addendum to all bidders or indication that the information provided via this email should be sufficient to answer your question.

I am requesting Lump Sum pricing from your company for Site work, permitting, septic system and coordination of delivery and connection of a pre-cast restroom building. This is being done for a prefabricated, site assembled concrete restroom at Santa Fe Lake Park that will be installed / assembled by Leesburg Concrete.

The building comes in sections on a flatbed and is assembled with the use of a crane, similar to tilt wall assembly. The building is by Leesburg Concrete and is in production and will be delivered and assembled on a rock bed per the attached plans. The building vendor advises me that the time to complete the building once it arrives on the prepared site is approximately four weeks.

Based on the attached plans the vendor shall get all required permits, handle site preparation and septic installation and coordinate with Sunshine Plumbing and Gibson electric on connections to the building footprint.

The water line from the water meter to the building footprint is being handled by Sunshine Plumbing. Vendor shall coordinate the water line to facilitate connection.

The electrical wiring connection from the power pole to the building footprint is being handled by Gibson Electric. Vendor shall coordinate the conduit to facilitate connection.

John Morris, PMP  
Parks and Open Space  
Contracts and Project Coordinator  
[12 SE 1st Street, Gainesville 32601](#)  
[352.548.1219](#)



**John Morris, PMP**

Contracts and Project Coordinator  
Parks and Open Space  
5620 NW 120th Lane • Gainesville • FL • 32653  
352-548-1219 (office)



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From/Return:	John Morris, Contracts and Project Coordinator, Alachua County Parks and Open Space		
Date:	February 23 <sup>rd</sup> , 2022		
Phone #:	352-548-1219	E-Mail: jmorris@alachuacounty.us	

**REQUEST FOR QUOTATION (RFQ)**

**Summary of Work:** Site work, permitting, septic system and coordination of delivery and connection of a pre-cast restroom building provided by Leesburg Concrete based on attached documents.

**Location:** Santa Fe Lake Park, 24500 NE SR 26, Melrose, FL 32666

**Deadline:**

Please return this Request for Quote Form via email with a Lump Sum Price by **2:00 pm, Monday March 9th, 2022**. Also, review the below insurance requirements and submit them with you RFQ. If you have any additional questions, please do not hesitate to call or email me.

**Scope of Work:****Lump Sum/Unit Pricing:**

ITEM NO.	DESCRIPTION	EST QUANTITY	UNIT	AMOUNT QUOTE
1	Work per plans	1	LS	\$
<b>LUMP SUM TOTAL</b>				

**NOTE:** This for is for LUMP SUM COST of the entire project, unit prices are to establish pricing if additional work is required above or beyond the Lump Sum Base Price.

Vendor Name:			
Company:			
Phone #:		eMail:	
Signature:		Print Name:	

**TYPE “A” INSURANCE REQUIREMENTS  
“ARTISAN CONTRACTORS / SERVICE CONTACTS”**

**The Contractor shall procure and maintain for the duration of this contract insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the contractor/vendor, his agents, representatives, employees or subcontractors.**

**COMMERCIAL GENERAL LIABILITY**

Coverage must be afforded under a per occurrence form policy for limits not less than \$1,000,000 General Aggregate, \$1,000,000 Products / Completed Operations Aggregate, \$1,000,000 Personal and Advertising Injury Liability, \$1,000,000 each Occurrence, \$50,000 Fire Damage Liability and \$5,000 Medical Expense.

**AUTOMOBILE LIABILITY**

Coverage must be afforded including coverage for all Owned vehicles, Hired and Non-Owned vehicles for Bodily Injury and Property Damage of not less than \$1,000,000 combined single limit each accident.

**WORKERS COMPENSATION AND EMPLOYER’S LIABILITY**

Coverage to apply for all employees at STATUTORY Limits in compliance with applicable state and federal laws; if any operations are to be undertaken on or about navigable waters, coverage must be included for the USA Longshoremen & Harbor Workers Act.

Employer’s Liability limits for not less than \$100,000 each accident; \$500,000 disease policy limit and \$100,000 disease each employee must be included.

**BUILDER’S RISK / INSTALLATION FLOATERS (when applicable)**

When this contract or agreement includes the construction of and/or the addition to a permanent structure or building; including the installation of machinery and/or equipment, the following insurance coverage must be afforded:

Coverage Form: Completed Value, All Risk in an amount equal to 100% of the value upon completion or value of equipment to be installed.

When applicable: Waiver of Occupancy Clause or Cessation of Insurance clause. Flood Insurance as available under the National Flood Insurance Program.

**EMPLOYEE FIDELITY COVERAGE ( only applicable to vendors who’s employees handle funds )**

Employee Dishonesty coverage must be afforded for not less than \$500,000 Blanket all employees ISO Form



# 22'-6"x 21'-5"x 8'-0" RESTROOM 6 USER CUSTOM DRAWINGS - FIELD ASSEMBLY

CUSTOMER:

MANUFACTURER: **LEESBURG CONCRETE COMPANY INCORPORATED**  
1335 THOMAS AVE, LEESBURG FL 34748  
1-800-882-4177 Fax: 352-787-7935

## LEGEND

LAST PACKET REVISION: 9/9/21



DENOTES SECTION OR ELEVATION NO.



DENOTES SHEET NO.



DENOTES CONNECTION NO.



DENOTES DETAIL NO.

REINFORCEMENT TO BE 1/2" CLEAR FROM ALL PERIMETER EDGES AND IN CENTER OF PANEL THICKNESS

## ABBREVIATIONS

P.D. = PANEL DIMENSION  
R.O. = ROUGH OPENING  
M.O. = MASONRY OPENING  
B.I.F. = BOTTOM IN FORM  
T.I.F. = TOP IN FORM  
TYP. = TYPICAL

## BAR MARKS

EXAMPLE: 41206 (#4 12'-6")

## GENERAL NOTES

- SIGNED AND SEALED PLANS TO BE APPROVED BY FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
- PLAN REVIEW INSPECTION REQUIRED BY CHAPTER 633 F.S. SHALL BE DONE ON SITE BY LOCAL FORE SAFETY INSPECTOR
- FL PRODUCT APPROVAL:  
3.1 DOORS: FL 14482-R7
- REINFORCEMENT TO BE 1-1/2" CLEAR FROM ALL PERIMETER EDGES AND IN CENTER OF THICKNESS UNLESS SHOWN OTHERWISE
- WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR MAT

## SITE INSTALLED ITEMS (NOT BY LCCI)

- FOUNDATION SYSTEM
- MECHANICAL, ELECTRICAL SYSTEMS.
- FIRE ALARM SYSTEMS
- GUTTERS AND DOWNSPOUTS

REINFORCEMENT TO BE 1-1/2" CLEAR FROM ALL PERIMETER EDGES AND IN CENTER OF PANEL THICKNESS

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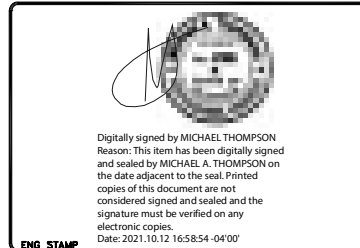
## DESIGN NOTES

- CODE/STANDARD REQUIREMENTS
  - 2020 FLORIDA BUILDING CODE 7th EDITION
  - 2020 FLORIDA BUILDING CODE 7th EDITION-2021 SUPPLEMENT
  - 2020 ACCESSIBILITY CODE (FLORIDA 7th EDITION)
  - 2020 MECHANICAL, PLUMBING CODE
  - 2020 FLORIDA FIRE PREVENTION CODE
  - 2017 NEC
  - ASCE 7-16
  - ACI 318-14
  - PCI 8TH ED
  - STEEL CONSTRUCTION MANUAL
  - FLORIDA ENERGY CONSERVATION C 101,4,2 AND C 101,4,3
  - FBC 101,4,9; 105,3,7; 458; (402,1,1 TO THE ENERGY CODE)
- LOADS
  - ROOF LIVE LOAD: 60 PSF
  - WIND LOADING 143 MPH(ASD)/ 185 MPH (ULTIMATE)
  - SEISMIC DESIGN CATEGORY A
- WIND DESIGN CRITERIA
  - RISK CATEGORY III
  - EXPOSURE CATEGORY C
- MATERIALS
  - CONCRETE
    - RELEASE= 2,500 PSI
    - 28 DAY= 5,000 PSI
    - REBAR: ASTM A615, GRADE 60
    - WELDED WIRE FABRIC: GRADE 60 ASTM A185 (WWR W4 X W4- 3"x3" GRID SPACING)
  - UTILITY
    - CONSTRUCTION TYPE II-B

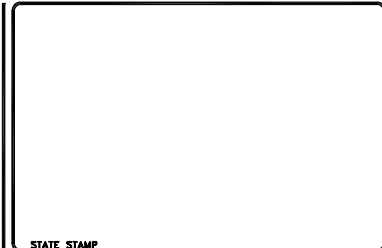
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ASSEMBLY DRAWINGS	
Sheet Number	Sheet Title
CVR	COVERSHEET
A1.00	NOTES
A1.01	
A2.01	ELEVATIONS
A3.01	FLOOR PLAN
A3.02	ROOF PLAN
A4.01	SECTIONS & DETAILS
E1.01	ELECTRICAL PLAN
E1.02	ELECTRICAL DETAILS
P1.01	PLUMBING PLAN & SECTIONS
P1.02	PLUMBING DETAILS
P1.02	FIXTURE DETAILS
A5.01	WELDED CONNECTIONS
A5.02	WELDED CONNECTIONS
A6.01	INSTALLATION
A6.02	POST TENSIONING INSTRUCTION
A6.03	POST TENSIONING DETAILS
A7.01	SHIPPING DETAILS & WEIGHTS

NOTE:

PAGES MAY BE OMITTED IF NOT NEEDED



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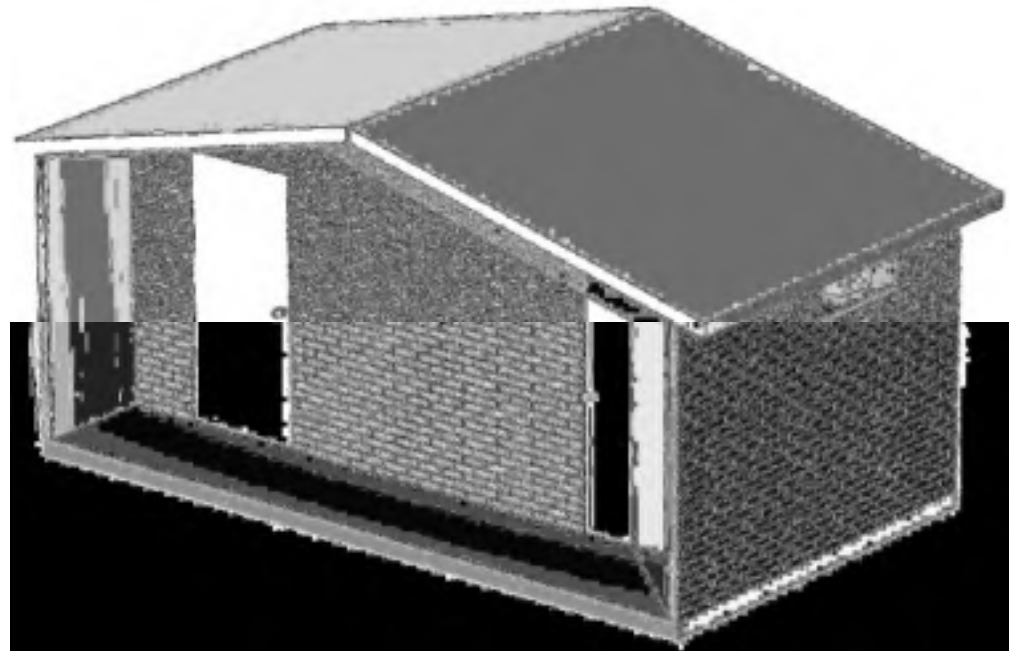
PROJECT: 22'-6" x 21'-5" x 8'  
SIX USER RESTROOM  
CONTRACTOR:

SCALE
DRAWN BY MCG
ISSUE DATE 9/9/21
SHEET NUMBER/ PIECE MARK CVR

## BUILDING NOTES

1. BUILDING IS DELIVERED AND ERECTED AS A SHELL ONLY- ALL INTERIOR FINISHES, MEP, FIRE ALARMS, LOW VOLTAGE SYSTEMS AND SO FORTH ARE NOT INCLUDED WITH THE PRECAST CONCRETE SCOPE

A) DOORS AND HARDWARE - OWNER CAN SPECIFY SPECIFIC HARDWARE USED IN THE DISTRICT WHICH MEETS THE APPROPRIATE FL APPROVAL CODES



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MICHAEL THOMPSON  
Reason: This item has  
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and sealed by MICHAEL  
A. THOMPSON on the  
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Printed copies of this  
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sealed and the signature  
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PROJECT: 22' - 6" x 21' - 5" x 8'  
SIX USER RESTROOM  
CONTRACTOR:

SCALE

DRAWN BY  
MCG

ISSUE DATE  
9/9/21

SHEET NUMBER/  
PIECE MARK  
A1.00



**STATE STAMP**



**Leeburg**  
**CONCRETE**  
COMPANY, INCORPORATED

DATE	DESCRIPTION	INTL. REV.
2/28/18	REVISED CODE REF. FAC61-41,004	MGG <input checked="" type="checkbox"/>
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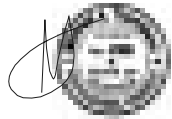
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**ELEVATION VIEWS**  
**LEESBURG CONCRETE INC.**  
**CONTRACTOR: LEESBURG, FL**

SCALE  
AS NOTED

**DRAWN BY**  
MCG

ISSUE DATE  
9/9/21

**SHEET NUMBER/  
PIECE MARK**  
A2.01



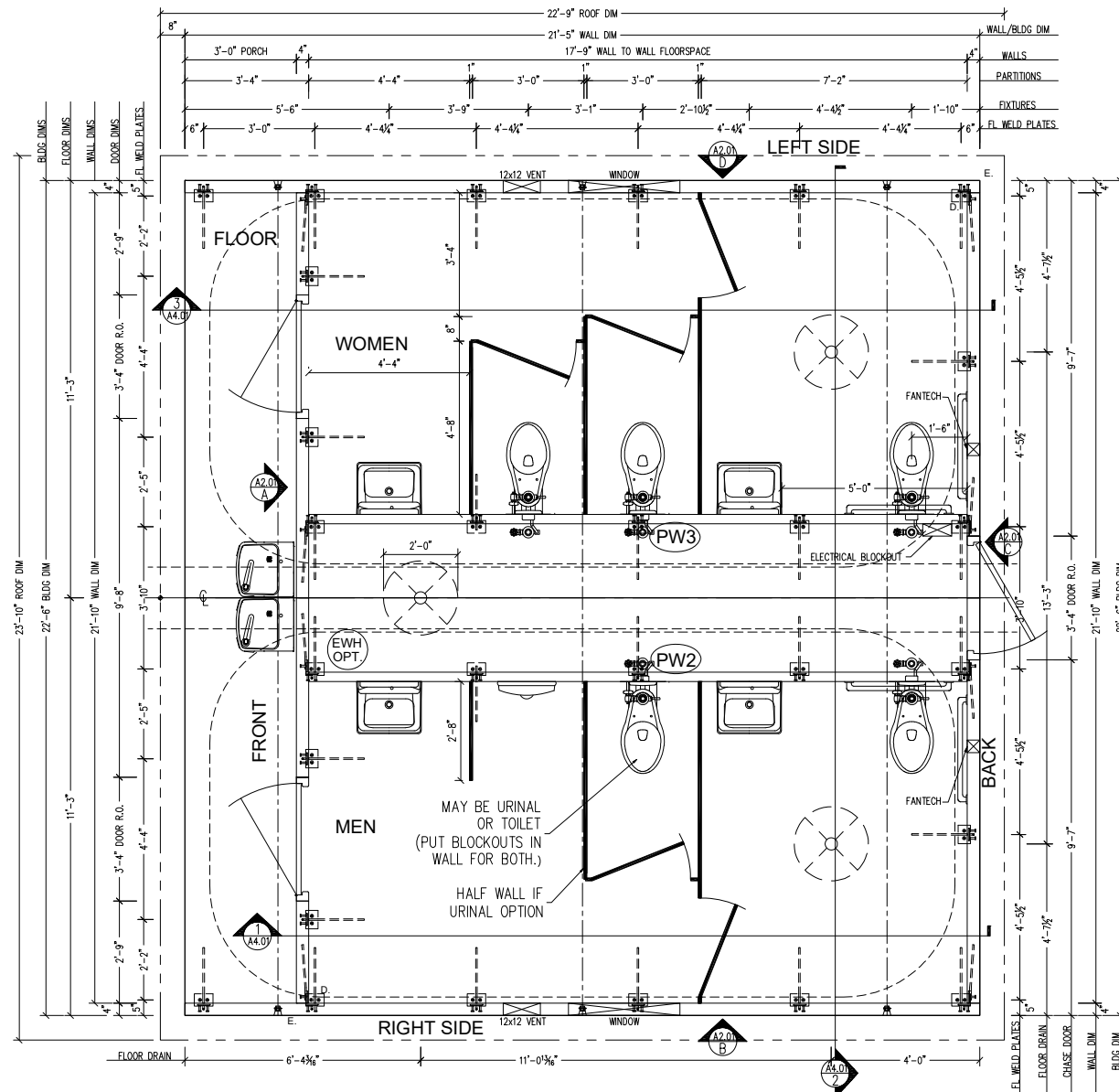
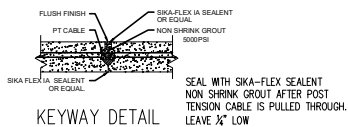
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and sealed by MICHAEL A. THOMPSON on  
the date adjacent to the seal. Printed copies  
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and sealed and the signature must be  
verified on any electronic copies.  
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RESTROOM DETAILS &  
FIXTURE SCHEDULE SEE  
PAGES P1.01 & P1.02

ACCESS CODE - 403.5.2  
PLUMBING CODE- 405.3.1  
AMBULATORY ACCESS CODE  
FIG 604.8.2



## FLOOR PLAN

22'-6" W. X 21'-5" L. X 8'-0" H.  
6 USER RESTROOM (ADA)

NOTES:  
FL-14482-R5 STEEL CRAFT DOOR & FRAMING, PRIMUS CORES, NO 70 RESTROOM, 4" THROAT  
SINGLE RABBIT, WELDED, TRIO E DOOR OUTSWING, REQUIRED 1120 LBF LATCH STRENGTH  
(ND85) KEYWAY LOCK SYSTEM (TYP.) PRIMUS FULL SIZE INTERCHANGEABLE CORE PROVIDED  
BY OTHERS.  
PLUMBING & ELECTRICAL KNOCKOUTS INFILL & SLOPE TO DRAIN NOT BY LCCI



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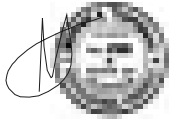
PROJECT: 22'-6" x 21'-5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

SCALE  
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DRAWN BY  
MCG

ISSUE DATE  
9/9/21

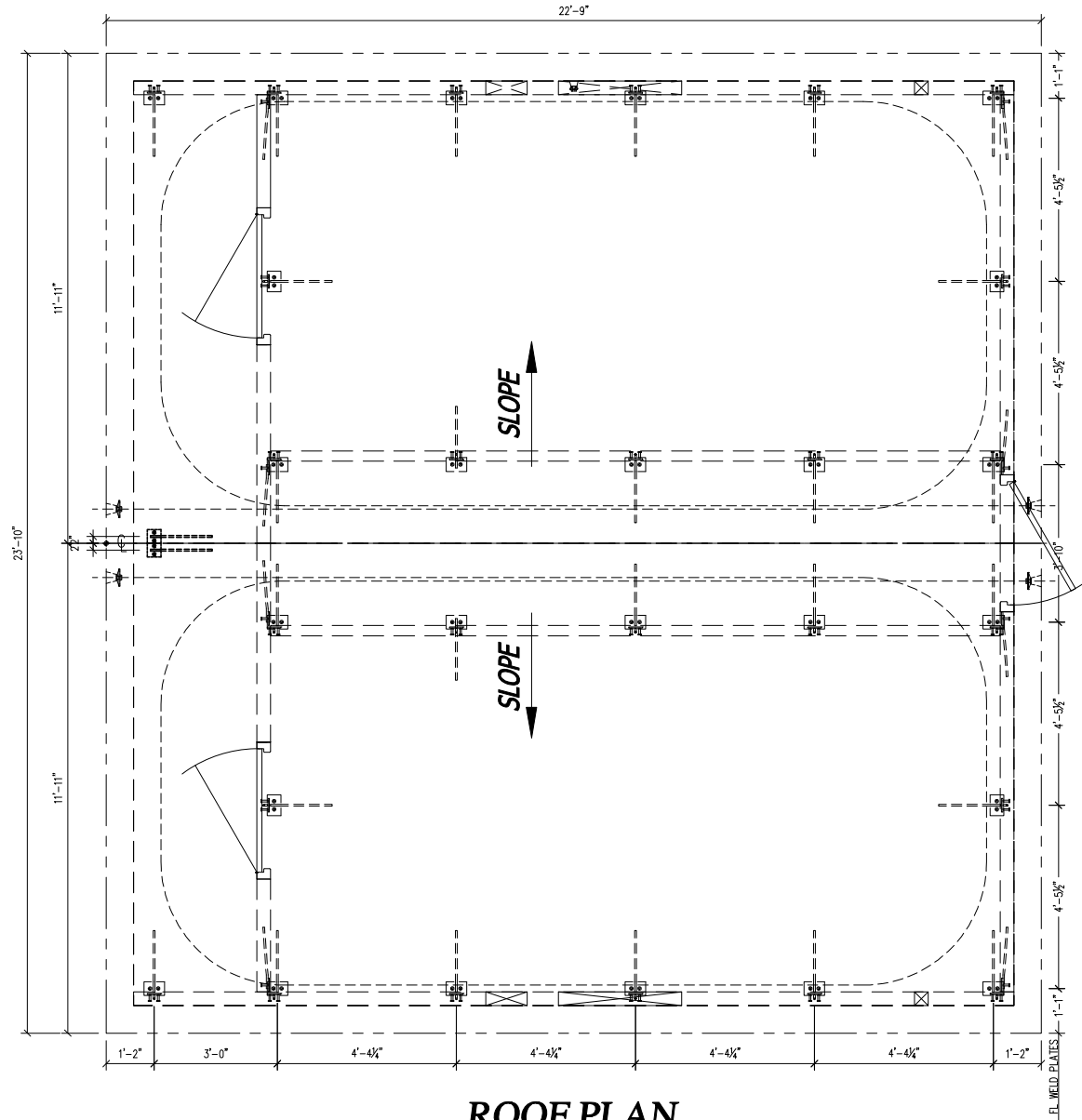
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PIECE MARK  
A3.01



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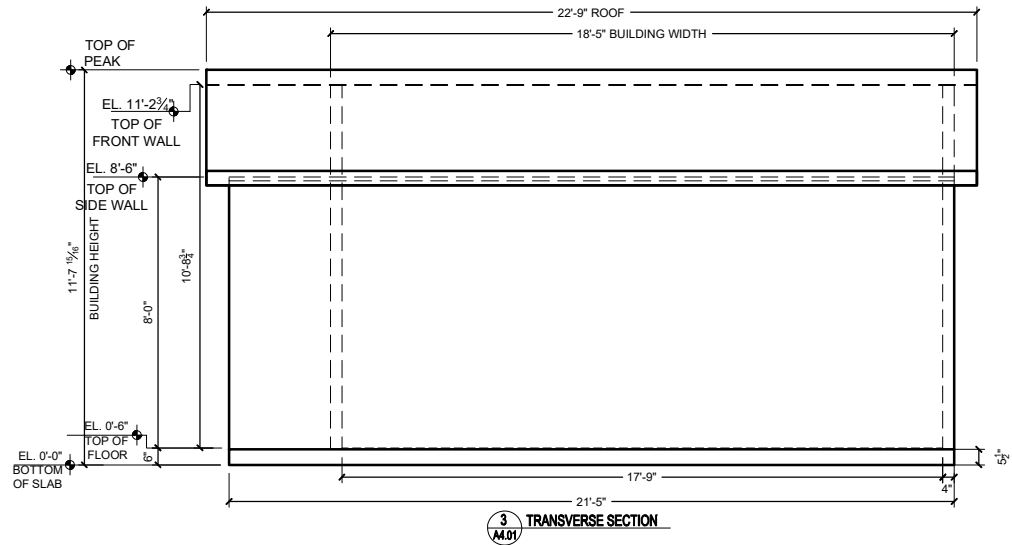
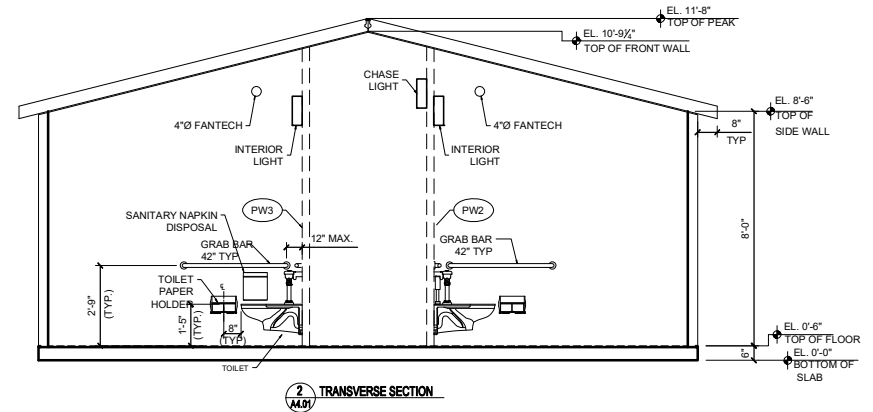
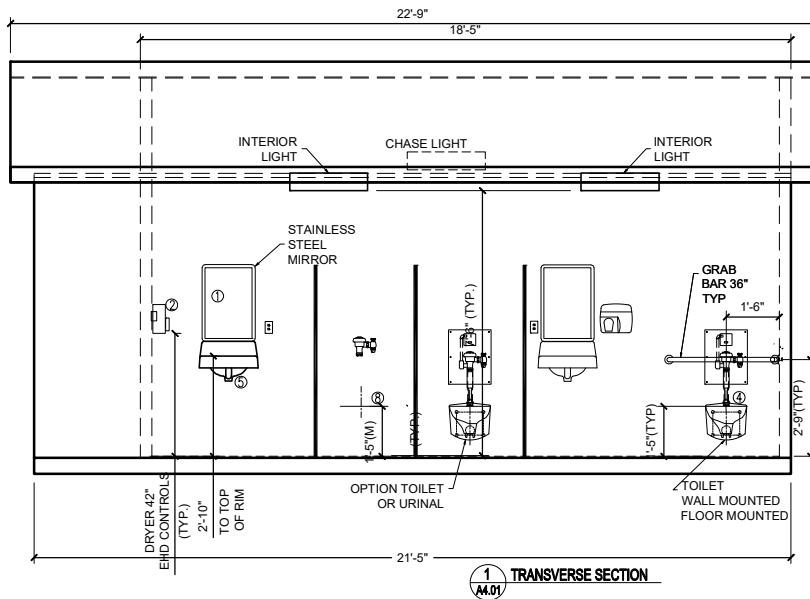
**ROOF PLAN**



DATE	DESCRIPTION	INTL. REV.
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		△
		△

PROJECT: 22'-6" x 21'-5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

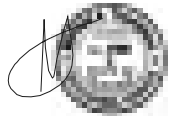
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DRAWN BY MCG
ISSUE DATE 9/9/21
SHEET NUMBER/ PIECE MARK A3.02



NOTES:

1. KETCHUM SSF 1824 STAINLESS STEEL MIRROR
2. SANIFLOW E88ACS ELECTRIC HAND DRYER (HEAT ELEMENT TO BE REMOVED)
3. GRAB BARS - 42" & 36" IN EACH TOILET ROOM
4. AMERICAN STANDARD 3690.001, OR 3695.128 W/SLOAN ROYAL 110 FLUSH VALVE
5. KOHLER K-2812 WALL-MOUNT LAVATORY (HC SCALD GUARD COVERS) DIMENSIONED FROM FINISH FLOOR TO TOP RIME OF LAVATORY.
6. SOAP DISPENSER, PAPER TOWEL DISPENSER, TOILET PAPER HOLDER, & SANITARY NAPKIN DISPOSAL BY OTHERS
7. AMERICAN STANDARD WALL HUNG URINAL
8. FIRE ALARMS, EMERGENCY LIGHTING AND FIRE EXTINGUISHERS AND LOCATIONS ARE BY OWNER

ACCESSIBLE ELEMENTS / FIXTURES INSTALLATION MEASUREMENTS MAY VARY DUE END USE REQUIREMENT BUY MUST COMPLY WITH 2017 6TH EDITION FLORIDA CODE REFERENCE FBC ACCESSIBILITY 104.1. SEE P1.03 FOR DETAILS



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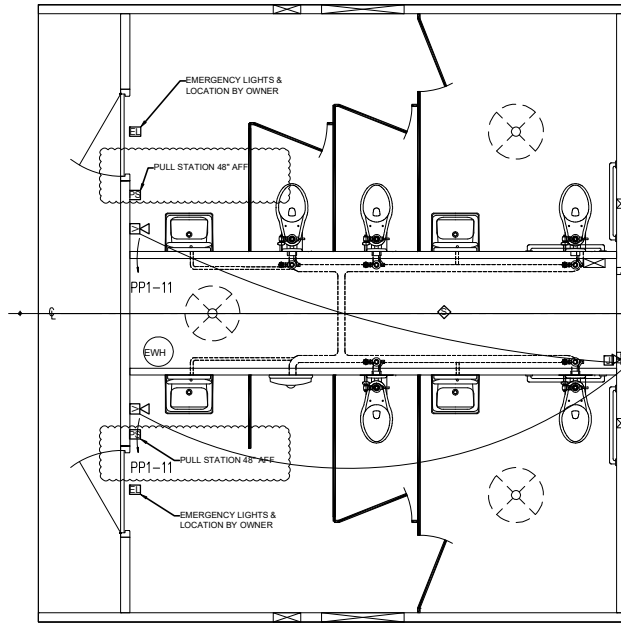
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SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

SCALE  
AS NOTED

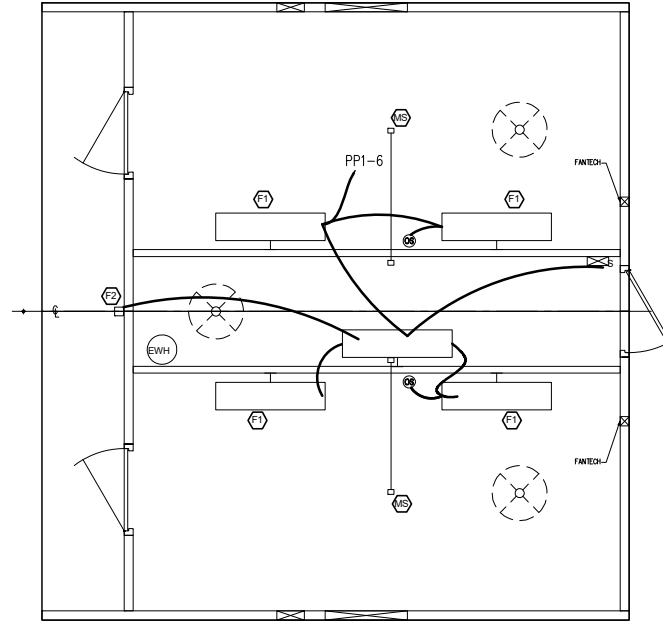
DRAWN BY  
MCG

ISSUE DATE  
9/9/21

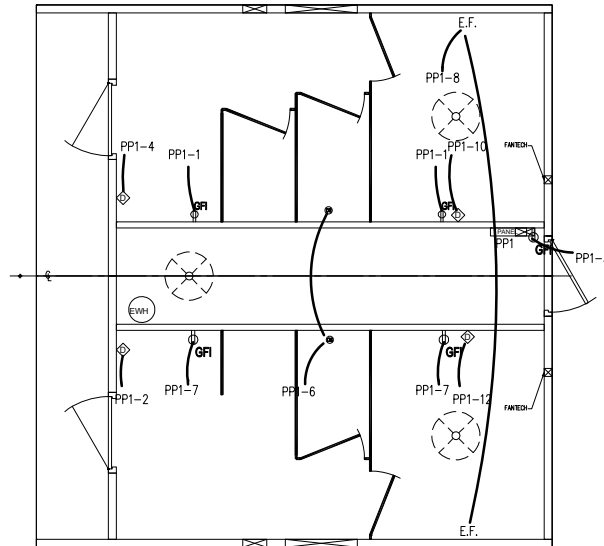
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PIECE MARK  
A4.01



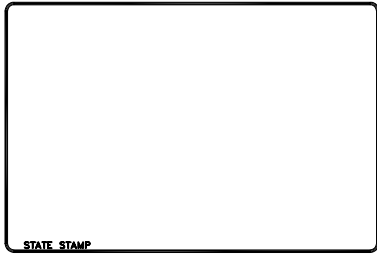
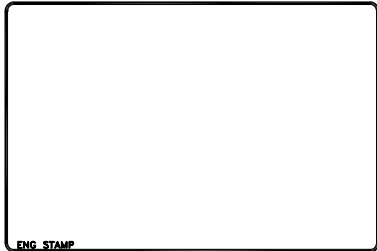
**FIRE ALARM NOTIFICATION PLAN**



**LIGHTING PLAN**



**POWER PLAN**



DATE	DESCRIPTION	INT.	REV.

PROJECT: 22'-6" x 21'-5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

SCALE  
AS NOTED

DRAWN BY  
MCG

ISSUE DATE  
9/9/21

SHEET NUMBER/  
PIECE MARK  
E1.01

### EQUIPMENT CONNECTION SCHEDULE

LABEL	DESCRIPTION	H.P. (FLA)	CIRCUIT	LOCATION	VOLTAGE / PHASE	WIRE AND CONDUIT	STARTER					DISCONNECT				NOTE	
							TYPE	NEM SIZE	BY	LOC.	NEM A ENCL.	AUX.	BY	LOC.	NEM A ENCL.		SWIT CH SIZE
D	HAND DRYER	16 FLA	2, 4	BATHROOM	120V/1PH	(1) 3/4" C, (2) #12, (1) #12G	-	-	-	-	-	-	-	-	-	-	-
HVAC	HVAC	TBD	SEE DRAWINGS	EXTERIOR	120V/1PH	(1) 1/2" c, (2) #12, (1) #12 G	-	-	-	-	-	-	-	-	-	-	-
WC	WATER COOLER	TBD	5	CLASSROOM	120V/1PH	(1) 1/2" c, (2) #12, (1) #12 G	-	-	-	-	-	-	-	-	-	-	-
WH	WATER HEATER	2.5 KW	9	UTILITY RM	120V/1PH	(1) 1/2" C, (2) #12, (1) #12 G NEC 216.24	-	-	-	-	-	-	-	-	-	-	-
EF	EXHAUST FAN	1/4 HP	8	BATHROOMS	120V/1PH	(1) 3/4" C, (2) #12, (1) #12G	-	-	-	-	-	-	MF G	UNIT	1	NA	-

NOTES:  
1 - MAKE CONNECTION TO MOTOR.  
2 - INSTALL MOTOR STARTER FURNISHED BY MANUFACTURER.  
3 - MAKE CONNECTIONS TO CONTROLS.  
4 - FIELD CONTROL WIRING TO BUILDING AUTOMATION SYSTEM.  
5 - RUN FEED THRU CONTRACTOR CONTROL FROM FAN SHUTDOWN RELAY.  
6 - FURNISH & INSTALL DUCT SMOKE DETECTORS.  
7 - PROVIDE G.F.I. OUTLET AT UNIT. CIRCUIT TO NEAREST 120V CIRCUIT.  
8 - WIRE THRU T-STAT THEN TO MOTOR.

STARTER AUX:  
A - START-STOP IN COVER.  
B - HAND-OFF-AUTO IN COVER.  
C - PILOT LIGHT IN COVER.  
D - AUXILIARY CONTACTS.  
E - CONTROL CIRCUIT TRANSFORMER.  
F - TWO SPEED MOTOR CONTROL.  
G - KEY OPERATED - UP/DOWN OR OPEN/CLOSE.

### LIGHTING LEGEND

EQUI P. TAG	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS		FIXTURE	
					QTY	DESC.	WAT T	VOLTA GE
E1		WALL MOUNTED 12"x48" LIGHT FIXTURE	COOPER: METALUX	MC-232T8A-UNV-EBT1	2	28W T8	60	120V
E2		WALL MOUNT HIGH PRESSURE SODIUM LIGHT FIXTURE	HUBBELL LIGHTING	NRG-301-PC	2	50W HPS	60	120V

### POWER LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	GROUND FAULT DUPLEX RECEPTACLE
	SINGLE POLE SWITCH
	OCCUPANCY SENSOR SWITCH
	WALL MOUNT TWO-POLE DUAL TECHNOLOGY OCCUPANCY SENSOR. ONE POLE TO OPERATE LIGHT. ONE POLE TO OPERATE EXHAUST FAN.

### WIRE LEGEND

SYMBOL	DESCRIPTION

### PANELBOARDS

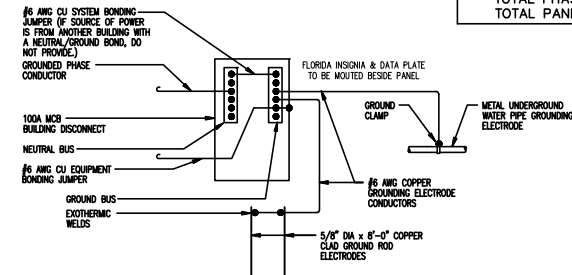
SYMBOL	DESCRIPTION
	SURFACE-MOUNTED PANELBOARDS

PANEL DESIGNATION: <u>PP1 (LOCKABLE)</u>				SERVICE: <u>120/240V.1Ø. 3W</u>					
LOCATION: <u>ELEC / PLUMB</u>				MAIN: <u>100 AMP MCB</u>					
EQUIPMENT/AREA SERVED	CKT. BRK. AMP	CKT. #	PHASE LOAD VOLT-AMPS		CKT. #	CKT. BRK. AMP	EQUIPMENT/AREA SERVED		
			A	B					
WOMENS ROOM RECEPTACLE	20	1	360	1920		2	20	MENS ROOM HAND DRYER	
CHASE RECEPTACLE GFI	20	3			180	1920	4	20	WOMENS ROOM HAND DRYER
WATER COOLER RECEPTACLE GFI OPTIONAL	20	5	372	240			6	20	LIGHTS
MENS ROOM RECEPTACLE	20	7			360	1920	8	20	EXHAUST FANS
WATER HEATER	30	9	2500	1920			10	20	HAND DRYER
FIRE SUPPRESSION SYSTEM	20	11			180	1920	12	20	HAND DRYER
TOTAL PHASE LOAD:			7312		6480		13792/240V		
TOTAL PANEL LOAD:			13792		PANEL AMPS		57.47		

### SPECIFICATIONS

- ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE, NFPA 70 - THE NATIONAL ELECTRICAL CODE (NEC) 2017.
- WIRING SHALL BE IN CONDUIT, MINIMUM SIZE 1/2" OR AS REQUIRED FOR CONDUCTOR NUMBER AND SIZE. USE ELECTRIC METALLIC TUBING, WHERE PVC CONDUIT WILL BE EXPOSED ON EXTERIOR, USE SCHEDULE 80. USE FLEXIBLE CONDUIT FOR FINAL EQUIPMENT CONNECTIONS.
- CONDUITS AND CABLE PASSING THRU FIRE RATED CONSTRUCTION SHALL NOT LESSEN THE RATING OF THE CONSTRUCTION. CONDUITS PENETRATING EXTERIOR WALLS SHALL BE COMPLETELY WATERTIGHT.
- SUPPORT CONDUIT AND CABLE DIRECTLY FROM THE BUILDING STRUCTURE AS PER NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS.
- CONDUCTORS SHALL BE COPPER, MINIMUM SIZE NO. 12 AWG OR AS REQUIRED FOR CIRCUIT. COLOR CODE IN ACCORDANCE WITH THE NEC. CONDUCTOR INSULATION SHALL BE TYPE THHN/THWN.
- BOXES SHALL BE SHEET STEEL TYPE, SIZED FOR NUMBER OF CONDUCTORS, FITTINGS AND DEVICES IN ACCORDANCE WITH CODE. COORDINATE PLACEMENT OF BOXES IN AND AROUND CASEWORK, KNEE SPACES, LAVATOIRES AND OTHER EQUIPMENT TO AVOID CONFLICTS WITH MIRRORS AND OTHER APPURTENANCES, REFER TO ARCHITECTURAL DRAWINGS. LOCATE LIGHTING CONTROL SWITCHES ON STRIKE SIDE OF DOOR. FIELD VERIFY FINAL DOOR SWINGS. BOXES CAST IN CONCRETE SHALL BE CAST IN PLACE GRADE BOXES AND SHALL BE CAST FLUSH WITH THE WALL SURFACE.
- WIRING DEVICES SHALL BE 20 AMPERE, SPECIFICATION GRADE TYPE. COVERPLATES SHALL BE HIGH-IMPACT PLASTIC OR NYLON. FINAL COLOR OF WIRING DEVICES AND COVERPLATES SHALL BE APPROVED BY THE OWNER AND ARCHITECT.
- OWNER NOTIFY POWER COMPANY AND ARRANGE FOR SERVICE. LABOR AND MATERIALS NOT COVERED BY THE POWER COMPANY SHALL BE PAID BY THE OWNER.
- PANELBOARDS SHALL HAVE MAXIMUM 20" WIDE LOCKABLE CABINETS AND COPPER BUS BARS. PANELS SHALL BE FULLY RATED OR HAVE A UL LISTED SERIES CONNECTED RATING OF A MINIMUM 22,000 AIC. IF THE ACTUAL AVAILABLE FAULT CURRENT EXCEEDS THE 22,000, CONTACT ENGINEER OF RECORD IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED. PANEL BOARD SHALL HAVE A MINIMUM 20% SPARE CAPACITY UPON COMPLETION OF PROJECT. OBTAIN FAULT CURRENT VERIFICATION LETTER FROM POWER COMPANY AND PROVIDE COPIES TO ARCHITECT, ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION.
- OWNER PROVIDE GROUNDING SYSTEM AS PER NEC ARTICLE 250 REQUIREMENTS.
- FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE WITH EQUAL TO OR LESS THAN 20% THD AND A 3 YEAR WARRANTY. FLUORESCENT TS LAMPS SHALL BE 3500K.
- OWNER OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED FOR WORK.
- DRAWINGS INDICATE DESIGN BASED EQUIPMENT. VERIFY EXACT LOCATION, CHARACTERISTICS AND CONFIGURATION OF CONNECTIONS REQUIRED FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT SPECIFIED UNDER OTHER DIVISIONS. IF ALTERNATE EQUIPMENT IS USED PROVIDE PROPER OVERCURRENT PROTECTION, DEVICES AND CIRCUIT REQUIRED. EQUIVALENT EQUIPMENT TO THAT SPECIFIED MAY BE SUBSTITUTED, HOWEVER, THE CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AND CHANGES REQUIRED TO ACCOMMODATE THE SUBSTITUTIONS AT NO COST TO THE OWNER. CONTRACTOR SHALL GUARANTEE EQUIVALENCE OF SUBSTITUTED EQUIPMENT.
- PROVIDE SHOP DRAWINGS, OPERATIONS AND MAINTENANCE MANUALS AND MAINTAIN RECORD DRAWINGS PER THE REQUIREMENTS OF THE ARCHITECT.

NOTE: ELECTRICAL SERVICE NOT BY LCCI



1  
E-02 SERVICE GROUNDING DETAIL  
GROUNDING & FINAL CONNECTIONS BY OTHERS

ENG. STAMP

STATE STAMP



DATE	DESCRIPTION	INTL. REV.
		Δ
		Δ
		Δ

PROJECT: 22' - 6" x 21' - 5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

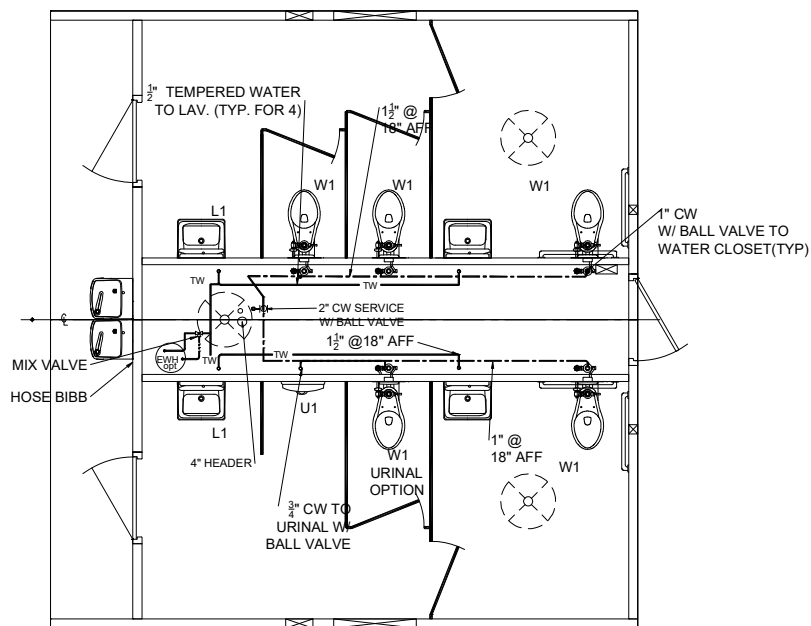
SCALE  
AS NOTED

DRAWN BY  
MCG

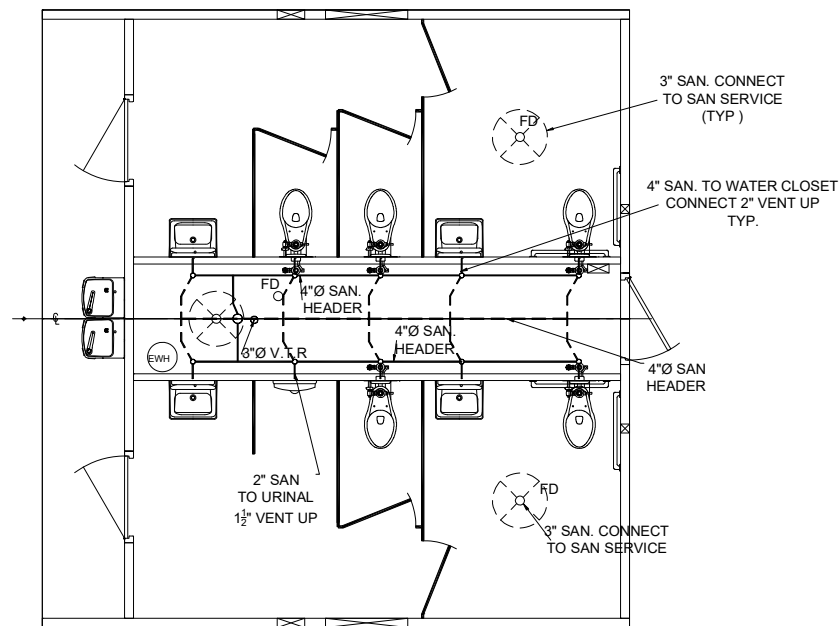
ISSUE DATE  
9/9/21

SHEET NUMBER/  
PIECE MARK  
E1.02

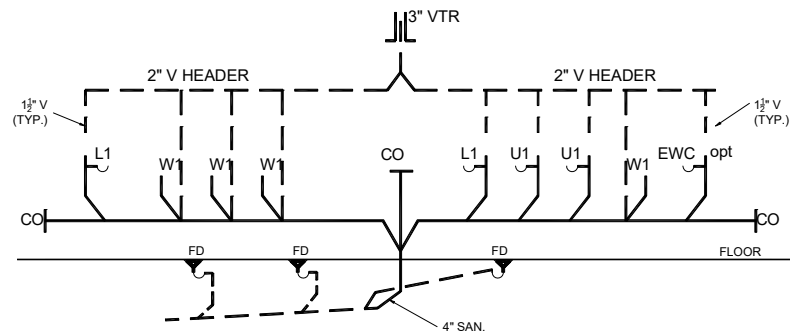
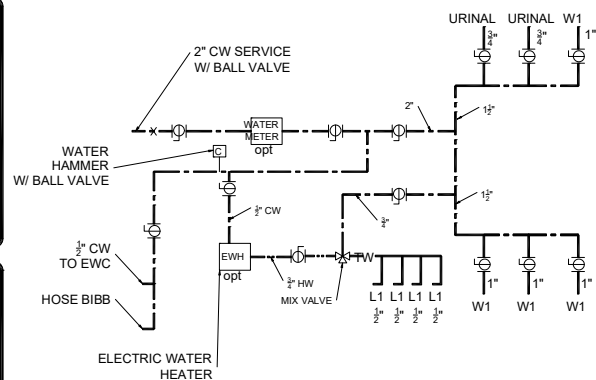




## WATER PLAN



## SANTARY PLAN



## PLUMBING DETAILS

SOME FIXTURES AND  
ACCESSORIES MAY BE OPTIONAL  
AND NOT BY LCCI

DATE	DESCRIPTION	INTL. REV.
		△
		△
		△
		△

**PROJECT: 22'-6" x 21'-5" x 8'**  
**SIX USER RESTROOM**  
**CONTRACTOR: LEESBURG CONCRETE INC**  
**LEESBURG, FL**

**SCALE**  
**AS NOTED**

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MCG

ISSUE DATE  
9/9/21

SHEET NUMBER  
PIECE MARK  
P1.01

## PLUMBING SPECIFICATIONS

## 1. GENERAL

## 1.1 DESCRIPTION OF WORK:

- A. ALL FIXTURES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED TO PROVIDE COMPLETE, COORDINATED, AND FULLY FUNCTIONAL PLUMBING SYSTEMS GENERALLY AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
1. SANITARY SEWER/VENT
  2. DOMESTIC WATER

## 1.2 RELATED DOCUMENTS:

- A. THE REQUIREMENTS OF THE CIVIL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL APPLY TO AND BE CONSIDERED A PART OF THE PLUMBING WORK IN-SO-FAR AS THEY APPLY TO THE PLUMBING WORK AND ARE REQUIRED FOR COORDINATION.

## 1.3 JOB CONDITIONS:

- A. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF THE WORK DESCRIBED AND INDICATED.

- B. PROVIDE FITTINGS, OFFSETS, TRANSITIONS, AND ACCESSORIES REQUIRED TO MEET CONDITIONS OF THE PROJECT.

- C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, AND SPECIALTIES.

- D. PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND FINISHED SURFACES.

## 1.4 CONFORMANCE TO REGULATIONS:

- A. WORK SHALL CONFORM WITH THE CURRENT FLORIDA STATE REQ. FOR EDUCATION FACILITIES

## 1.5 QUALITY ASSURANCE:

- A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS SHOWN HEREIN FOR INSTALLATION OF EQUIPMENT.

## 1.6 MATERIALS AND EQUIPMENT:

- A. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE EQUIVALENT TO PRODUCTS SPECIFIED.

- B. CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT SUBSTITUTED PRODUCT INTO THE PROJECT.

- C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.

- D. PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.

## 1.7 UTILITIES AND CONNECTIONS:

- A. OWNER WILL PAY FOR ALL WATER AND SEWER UTILITY CONNECTION FEES.

- B. COORDINATE CONNECTIONS WITH SITE UTILITY DRAWINGS. WORK TO LOCATIONS AND INVERTS INDICATED ON SITE DRAWINGS. PROVIDE TRANSITIONS IN SIZE AND MATERIAL AT POINT OF CONNECTION.

## 1.8 SUBMITTALS:

- A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR FIXTURES AND EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS. SHOP DRAWINGS AND PRODUCT DATA SHALL BE IDENTIFIED PER INDICATIONS ON DRAWINGS, SHALL BE MARKED TO INDICATED SPECIFIC ITEM BE PROPOSED, AND SHALL BE ORGANIZED IN AN ORDERLY MANNER. SUBMIT SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT.

- B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT WARRANTIES IN MANUAL.

## 1.9 PROJECT CLOSEOUT:

- A. REPLACE OR REPAIR DAMAGED EQUIPMENT AND CLEAN ALL EXPOSED SURFACES.

- B. TOUCH-UP SHOP APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.

- C. INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT.

## 2. PRODUCTS

## 2.1 PIPING SYSTEMS:

- A. DOMESTIC WATER PIPING - COPPER TYPE "L" SOLDERED FITTINGS
- B. SANITARY DRAINAGE - SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.
- C. VENT PIPING - SCHEDULE 40 PVC W/ SOLVENT WELD FITTINGS.

## LEGEND

	SOIL OR WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	TEMPERED WATER
	BALL OR GATE VALVE
	CHECK VALVE
	DROP IN PIPING
	SHOCK ARRESTOR

## ABBREVIATIONS

AFG	ABOVE FINISHED GRADE
VTR	VENT THRU ROOF
EWB	ELECTRIC WATER HEATER
CW	COLD WATER
HW	HOT WATER
TW	TEMPERED WATER
DN	DOWN
WC	WATER CLOSET
UR	URINAL
LAV	LAVATORY
FD	FLOOR DRAIN

## PLUMBING FIXTURE SCHEDULE

NO.	DESCRIPTION	W	V	CW	7W	MFR. MODEL		ACCESS.	NTS
						FIXTURE	FITTINGS		
WI	ACCESSIBLE FLUSH VALVE WATER CLOS.	3	1.5	1	---	AMERICAN STANDARD WHEEL CHAIR ACCESSIBLE 3695.12B 17" HEIGHT (WALL MOUNT) 3690.01 17" HEIGHT (FLOOR MOUNT)		ROYAL FLUSH 111	1,2
L1	ACCESSIBLE WALL HUNG LAVATORY	1.5	1.5	---	1/2	KOHLER K-2812		MVP FAUCETS 807-665PSHABCP	1,2,3
SA	WATER HAMMER ARRESTOR	---	---	X	---	WADE SHOKSTOPS			
FD	FLOOR DRAIN	3	1.5	---	---	WADE 1103STD6-27		TRAP PRIMER ON SITE BY OTHERS	
EWB	ELEC. WATER COOLER	---	---	1/2	1/2	OASIS P8ACSL		OPTIONAL	
EWB	ELEC. WATER HEATER	---	---	3/4	3/4	A.O. SMITH EJCS-20	2500 WATTS 120V	OPTIONAL	
BIBB	KEYED HANDLE HOSE BIBB	1/2	1/2	3/4	---	AMERICAN STANDARD 6561.017		ROYAL FLUSH 186	1,2

## NOTES:

1. INSTALL FIXTURES IN ACCORDANCE WITH APPLICABLE STANDARDS.
2. PROVIDE PROPER ACCESSORIES FOR WALL THICKNESS & CONSTRUCTION.
3. INSTANT HOT ELECTRIC WATER HEATER IS OPTIONAL IF USED, PROVIDE TEMPERING VALVE
4. SIZE PER MANUFACTURER'S RECOMMENDATIONS FOR NUMBER OF FIXTURES SERVED.
5. WATER HEATER IS TO BE INSTALLED ON SITE BY OTHERS
6. TRAP PRIMER IS TO BE INSTALLED ON SITE BY OTHERS TRAP PRIMER ROUGH IN TO FLOOR DRAIN PROVIDED AT SITE PREPARATION.  
REFERENCE : FPC 1002.4.1 TRAP SEALS

(309.4) FAUCET NO MORE THAN 5LBS. FORCE TO OPERATE

ENG. STAMP

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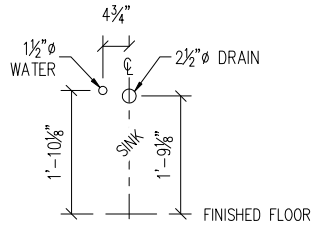


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2/28/18	UPDATED NOTE					

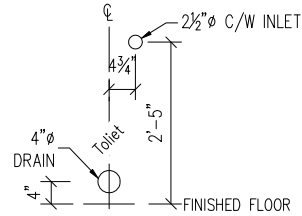
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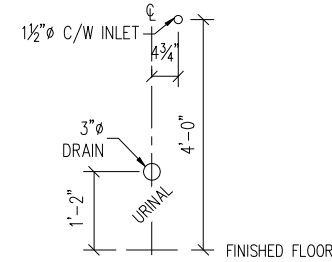
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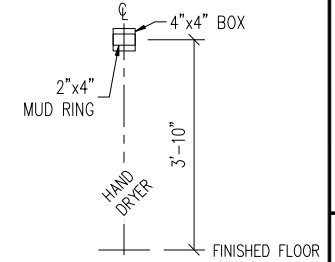
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(MENS & WOMEN)**  
AS VIEW FROM CHASE SIDE



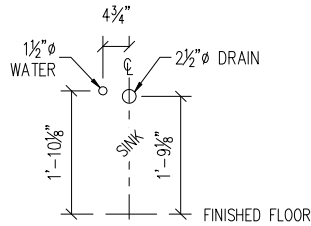
**TOILET  
(MENS & WOMEN)**  
AS VIEW FROM CHASE SIDE



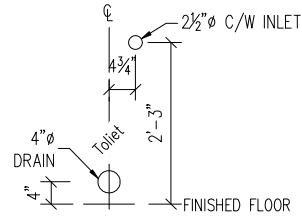
**URINAL  
(MENS)**  
AS VIEW FROM CHASE SIDE



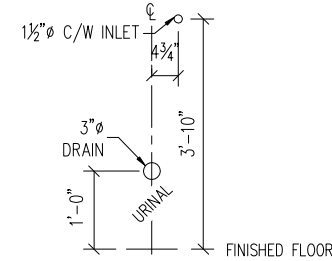
**HAND DRYER  
(MENS & WOMEN)**  
AS VIEW FROM CHASE SIDE



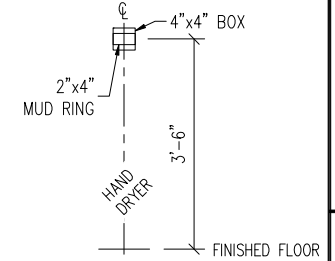
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(BOYS & GIRLS)**  
AS VIEW FROM CHASE SIDE



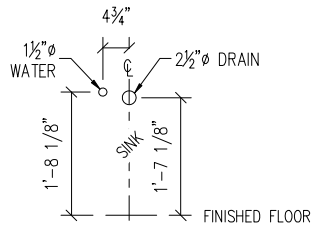
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(BOYS & GIRLS)**  
AS VIEW FROM CHASE SIDE



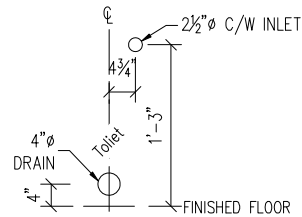
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(BOYS)**  
AS VIEW FROM CHASE SIDE



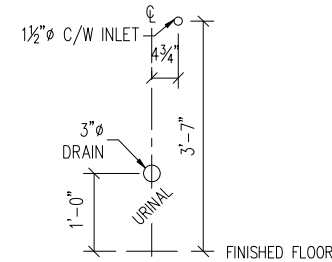
**HAND DRYER  
(BOYS & GIRLS)**  
AS VIEW FROM CHASE SIDE



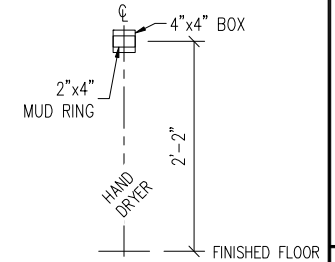
**SINK  
(K BOYS & K GIRLS)**  
AS VIEW FROM CHASE SIDE



**TOILET  
(K BOYS & K GIRLS)**  
AS VIEW FROM CHASE SIDE



**URINAL  
(K BOYS)**  
AS VIEW FROM CHASE SIDE



**HAND DRYER  
(K BOYS & K GIRLS)**  
AS VIEW FROM CHASE SIDE

ENG STAMP

STATE STAMP

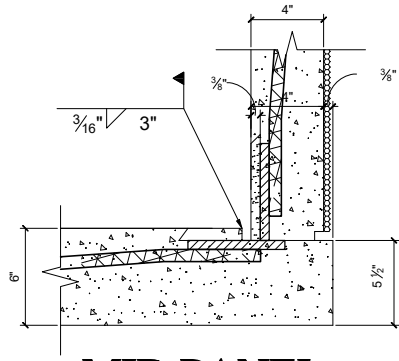


DATE	DESCRIPTION	INT. REV.
2/28/18	ADDED PAGE FOR DETAILS	MCG

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LEESBURG, FL

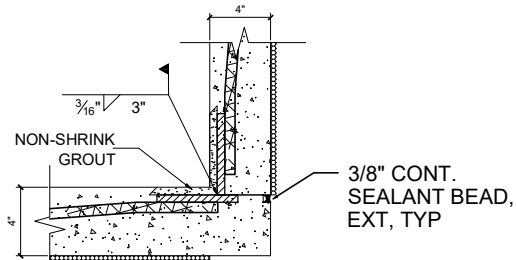
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ISSUE DATE 9/9/21
SHEET NUMBER/ PIECE MARK P1.03

# WELDED CONNECTIONS



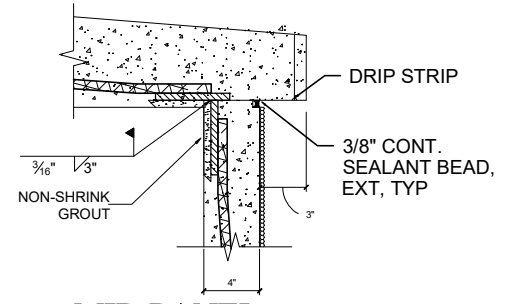
**- MID PANEL -  
FLOOR - WALL DETAIL**

5  
A5.01



**- MID PANEL -  
WALL - WALL DETAIL**

3  
A5.01



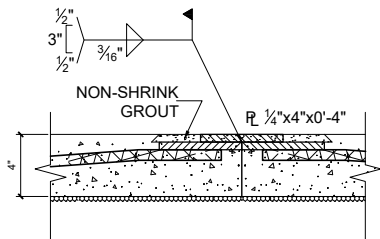
**- MID PANEL -  
ROOF - WALL DETAIL**  
tapered roof

1  
A5.01

Digitally signed by  
MICHAEL THOMPSON  
Reason: This item has  
been digitally signed  
and sealed by MICHAEL  
A. THOMPSON on the  
date adjacent to the  
seal. Printed copies of  
this document are not  
considered signed and  
sealed and the  
signature must be  
verified on any  
electronic copies.  
Date: 2021.10.12  
17:11:19 -04'00'

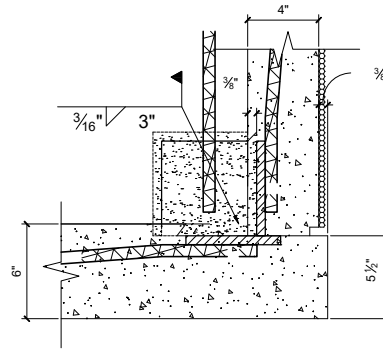
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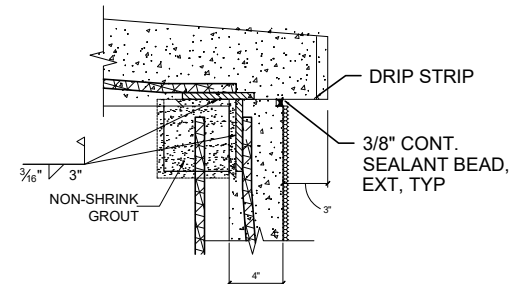
**WALL - WALL DETAIL**

6  
A5.01



**- CORNER PANEL -  
FLOOR - WALL DETAIL**

4  
A5.01



**- CORNER PANEL -  
ROOF - WALL DETAIL**  
tapered roof

2  
A5.01



DATE	DESCRIPTION	INT. REV.	DATE	DESCRIPTION	INT. REV.

PROJECT: 22'-6" x 21'-5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

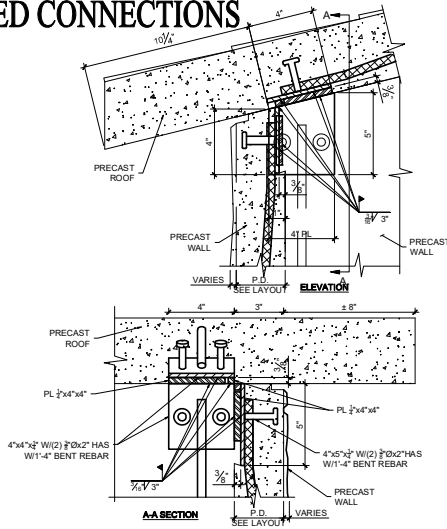
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MCG

ISSUE DATE  
9/9/21

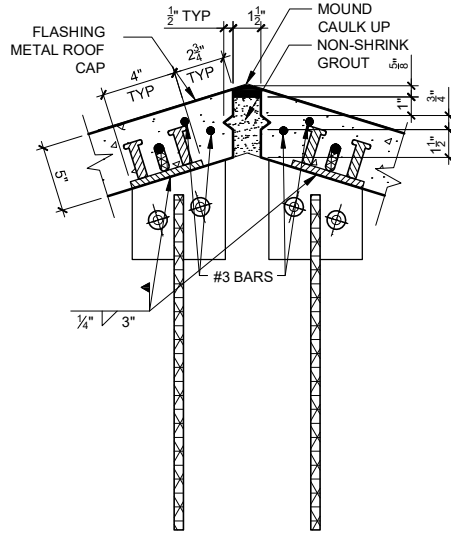
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PIECE MARK  
A5.01

# WELDED CONNECTIONS



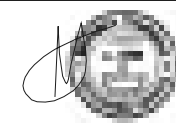
**R** -CORNER PANEL-  
ROOF - PEAK DETAIL  
gabled roof

5  
A5.02



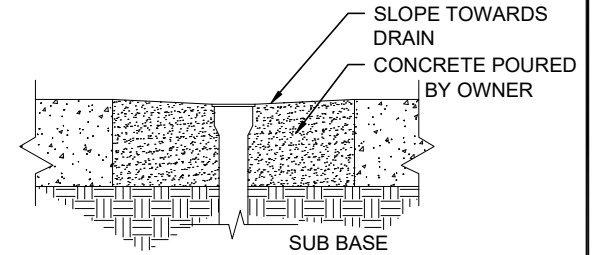
**P** ROOF - PEAK DETAIL  
gabled roof

3  
A5.02



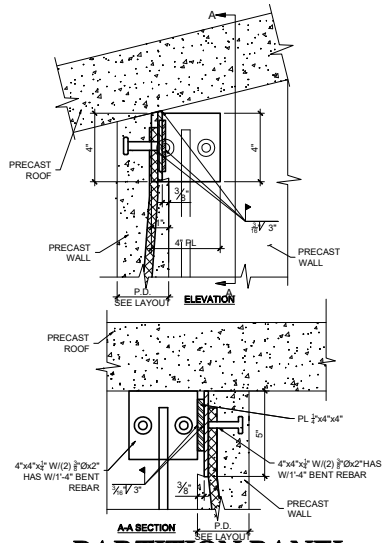
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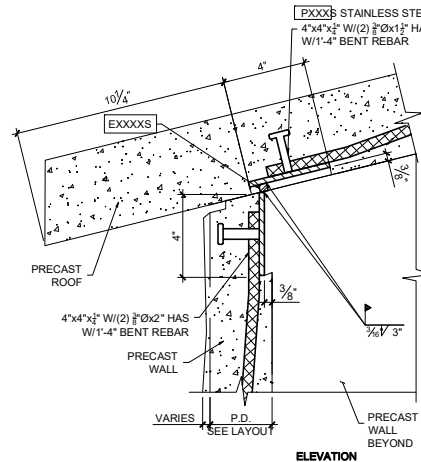
**M** NOT BY LCCI  
FLOOR DRAIN DETAIL

1  
A5.02



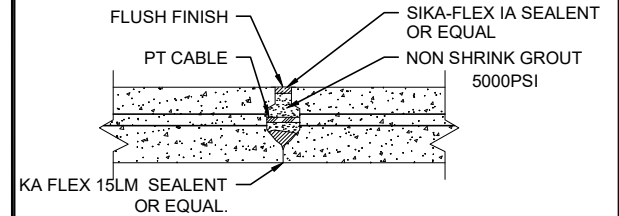
**S** -PARTITION PANEL-  
WALL - WALL DETAIL  
gabled roof

6  
A5.02

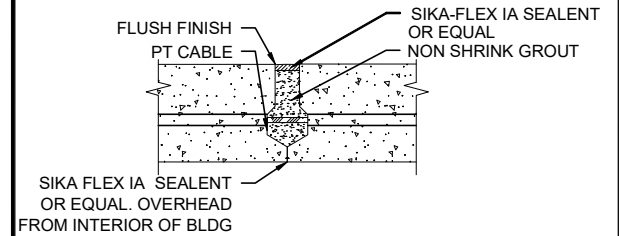


**Q** -MID PANEL-  
ROOF - WALL DETAIL  
gabled roof

4  
A5.02



**N** -KEYWAY-  
FLOOR - JOINT DETAIL



**O** -KEYWAY-  
ROOF - JOINT DETAIL

2  
A5.02



DATE	DESCRIPTION	INT. REV.	REV.

PROJECT: 22' - 6" x 21' - 5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

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# FOUNDATION REQUIREMENTS FOR TRANSPORTABLE PRECAST CONCRETE BUILDINGS

## BUILDING DESIGN

TRANSPORTABLE PRECAST CONCRETE BUILDINGS HAVE BEEN DESIGNED TO ELIMINATE THE NEED FOR FOUNDATIONS OR FOOTINGS FOR VIRTUALLY ALL INSTALLATIONS. THE BUILT-IN FLOOR OF THE BUILDINGS ARE DESIGNED FOR USE ON FLOATING FOUNDATIONS COMPRISED OF 4"-6" OF CRUSHED STONE OR SAND. THIS DESIGN, AND THE USE OF APPROPRIATE FLOATING FOUNDATIONS OF STONE OR SAND, HAVE PROVEN TO BE EFFECTIVE AND PROBLEM FREE IN THE FIELD FOR A WIDE VARIETY OF INSTALLATIONS. THE EFFECTIVENESS OF THE DESIGN HAS NOT BEEN ADVERSELY AFFECTED BY THE SIZE OF THE BUILDING.

## CAVEATS

THE FLOATING FOUNDATION OF CRUSHED STONE OR SAND SHOULD BE PLACED ON A WELL-DRAINED AND GRADED AREA, TO PRECLUDE THE RETENTION OF STANDING WATER. ON A WELL-DRAINED AND PROPERLY GRADED SITE, ANY GROUND SWELL SHOULD BE MINIMAL AND LINEAR, WITH NO DAMAGE TO THE BUILDING OR ITS CONTENTS.

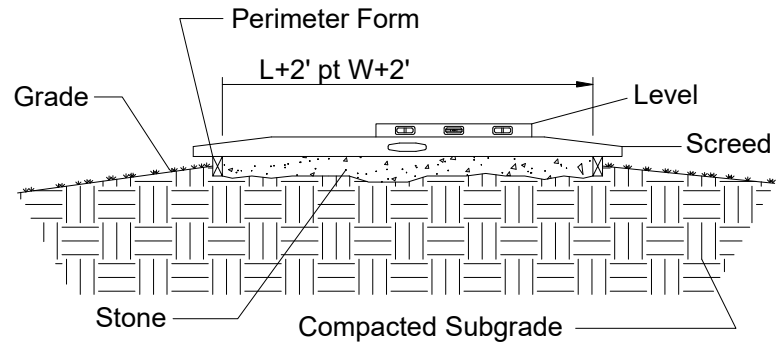
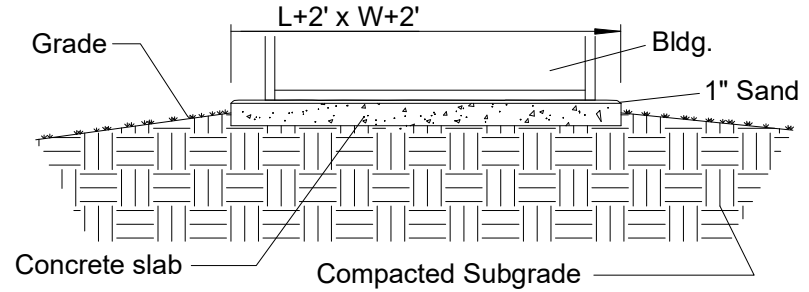
IT IS IMPORTANT TO NOTE THAT THE DESIGN OF THE BUILDING ENABLES THE TRANSPORTATION OF THE BUILDING, WHICH MAXIMIZES THE FLEXIBILITY AND LONG-TERM USEFULNESS OF THE STRUCTURE. FURTHERMORE, THE ELIMINATION OF FOUNDATIONS AND FOOTINGS MINIMIZES THE IMPACT ON, AND DAMAGE TO, THE ENVIRONMENT OF THE BUILDING SITE. THE USE OF STANDARD FOUNDATIONS OR FOOTINGS WOULD COUNTER SOME OF THE SIGNIFICANT BENEFITS, WHICH CAN BE ACHIEVED BY INSTALLING TRANSPORTABLE BUILDINGS. IN THOSE AREAS WHERE LOCAL BUILDING CODES MAY NOT ACCOMMODATE THE USE OF A FLOATING FOUNDATION FOR AN TRANSPORTABLE BUILDING, A VARIANCE TO SUCH CODES MAY BE AVAILABLE.

## SITE PREPARATION REQUIREMENTS (MANUFACTURER'S RECOMMENDATION)

- BUILDING SHALL BEAR FULLY ON A CRUSHED STONE BASE THAT IS AT LEAST TWO FEET LARGER THAN THE LENGTH AND WIDTH OF BUILDING.
- STONE SHALL BE A MINIMUM OF 4" THICK OR DOWN TO FIRM SUBGRADE. THE VERTICAL SOIL CAPACITY UNDER STONE SHALL BE COMPACTED TO HAVE MINIMUM BEARING OF 1,500 POUNDS PER SQUARE FOOT. STONE SHALL BE 3/8" OR SMALLER AND MUST BE SCREEDED LEVEL WITHIN 1/4" IN BOTH DIRECTIONS. STONE SHALL BE PLACED WITHIN A PERIMETER FORM WITH FLAT AND LEVEL TOP EDGE FOR SCREEDING. FORMING MATERIAL SHALL REMAIN AROUND STONE UNTIL AFTER THE BUILDING IS SET.
- THE CRUSHED STONE BASE SHALL BE KEPT WITHIN THE CONFINES OF THE SOIL OR PERIMETER FORM. DO NOT ALLOW THE BASE TO BECOME UNCONFINED SO THAT IT MAY WASH, ERODE, OR OTHERWISE BE UNDERMINED.  
OR  
IF BUILDING IS PLACED ON PAVEMENT OR A CONCRETE SLAB, SUBSTRATE BELOW PAVEMENT OR SLAB MUST HAVE A VERTICAL SOIL CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. PLACE STONE OR SAND TO 1" ABOVE HIGHEST POINT OF AREA WHERE BUILDING WILL BE PLACED AND AT LEAST 1'-0" WIDE ALL AROUND THE BUILDING FOOTPRINT. RETAIN STONE OR SAND WITH A PERIMETER FORM TO PREVENT THE MATERIAL FROM WASHING OUT.
- PROVIDE POSITIVE DRAINAGE FOR THE FILL, PAD, OR SLAB AS REQUIRED.

## ACCESS

- CONTRACTOR MUST PROVIDE LEVEL UNOBSTRUCTED AREA LARGE ENOUGH FOR A CRANE AND A TRACTOR-TRAILER TO PARK ADJACENT TO THE PAD. CRANE MUST BE ABLE TO PLACE OUTRIGGERS WITHIN 5'-0" OF EDGE OF PAD AND TRUCK AND CRANE MUST BE ABLE TO GET SIDE BY SIDE UNDER THEIR OWN POWER. NO OVERHEAD LINES MAY BE WITHIN 75' RADIUS OF CENTER OF PAD. A MINIMUM OF 24" CLEARANCE IS REQUIRED BETWEEN THIS BUILDING AND ADJACENT BUILDINGS.



## SITE PREPARATION

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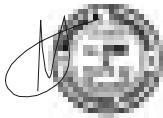
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SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

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9/9/21

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A6.01



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## 5.0 Building Production

### 5.10 STRESSING PROCEDURES For Roofs and Floors - Model 1012 & 1220

1. Remove form rails. Verify concrete strength with Schmidt Hammer or cylinder breaks. Concrete shall be a minimum of 3,750 PSI before cable can be stressed.
2. Remove recessed plastic pocket-formers at the post-tensioning anchor.
3. Remove the plastic sheath from the strand all the way from the base of the anchor to the end of the strand. Clean off grease from exposed portion of cable. Use a suitable solvent. Never heat or use flame on the cable.
4. Insure that the tapered holes in the anchors are cleaned and free of any debris or cement paste, which might interfere with proper wedge seating.
5. Install wedge sets around the strand at each anchor. Press the wedges in with the fingers evenly. Tap wedges in securely. Make sure the ends of the wedges are even with each other so that the stress will be evenly distributed over the wires of the strand.
6. Slide the wedge-setter over the cable and place against the wedges installed in the cast-in anchors (see drawing #1 on sheet A1.08).
7. Install the temporary reusable anchor on the strand. The plates of the jack will push against this anchor to elongate and, therefore, stress the strand. Set the temporary stressing anchor approximately 5" beyond the rear of the wedge-setter (see Drawing #1 on A1.08).
8. Install the plates of the twin ram stressing jack over the strand between the wedge-setter and the reusable stressing anchor.
9. Standing back from the jack, using a remote switch for the pump, stress the strands until the pump pressure gauge indicates a pressure listed on the calibration chart of your stressing pump, that corresponds to 33 K required tension on the  $\frac{1}{2}$ " cable. Whenever stressing be sure to observe safety precautions and operator positioning in anticipation of unexpected failures. NOTE: As a double-check to insure proper elongation of the strand, measure the distance the jack has stretched the cable. This dimension should be in accordance with the following formula:  
Length of total cable x .0795 = the length of cable elongation.
10. Release pump pressure slowly and remove the jacking system and temporary stressing anchor. Your post release tension on the cable will be 28.5 K.
11. Repeat stressing operation at other end of cable. To insure that cable is fully tensioned. Line friction may result in lower stress of total length of cable if this procedure is not done.
12. Release pump pressure slowly and remove jack system and temporary anchor.
12. Cut off strand tails at 1" from the wedge and pack the holes with permanent grout.

#### SAFETY INSTRUCTIONS:

- NOTE: Stressing units are calibrated against load cells to determine the gauge pressures for a particular unit which will produce the desired engineering force. Gauge pressure versus actual load calibration should be checked every six months against a load cell. The sample table on A1.08 lists the current equipment in service. Never use equipment which has not been tested in the last 6 months. The Quality Control Department has the responsibility to insure the stressing unit is calibrated semi-annually. See the following sample calibration chart A1.08. The calibration chart of your stressing jack is likely to vary from the sample table on A1.08.
- ROOF AND FLOOR POST-TENSIONING Stressing System Safety Instructions**
- This equipment is designed and built to provide safety during equipment operation. It must be operated and maintained by personnel who are trained in and follow safe procedures. Since the forces involved in tendon stressing are in the order of 33 to 46 kips, it is obvious that failure from any cause could be damaging to personnel and property. Accordingly, stressing equipment operators are expected to observe all applicable safety precautions including the following:
1. Before activating the pump, visually check all elastomeric tubing for nicks, cracks, or other damage and repair or replace if required.
  2. See that all tubing joints are tightly connected.
  3. Be sure that pump is supported in a stable manner and positioned to avoid strain on connection lines.
  4. Be sure that protective dunnage and appropriate safety barriers are erected to protect the operator and any others in the area.
  5. Observe the gauge pressure that will develop the required tensile force as marked on the tag attached to the pump. Locate this reading on gauge face.
  6. Be certain that tensioning twin-rams are positively engaged and correctly aligned.
  7. Activate pump and observe gauge. If pressure does not build up promptly, check system for leakage and make sure that anchors and wedges on both ends of the POLYSTRAND® tendons are properly engaged. When pressure reaches approximately 1000 PSI, stop and check for alignment. Make sure that the strand is at the top of the slot provided in the tension jack cylinder connector plates.
  8. Continue pumping until final pressure is attained. When stressing long tendons, multiple strokes and resetting the temporary anchor will be required. — CAUTION — pressure will build extremely fast if rams are fully extended. Monitor ram extension and gauge readings continuously.
  9. When the correct force has been applied to the tendon, stop the pump motor and release the pressure on the pack by opening the hydraulic valve.
  10. Use care in moving and storing equipment to insure that gauge and tubing are not damaged.
  11. Observe site rules pertaining to frequency of gauge calibration.



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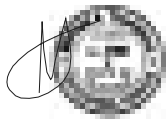
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SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

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MCG

ISSUE DATE  
9/9/21

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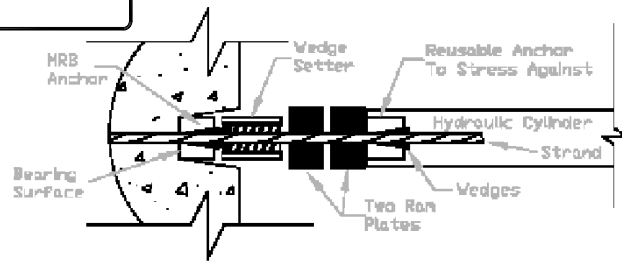
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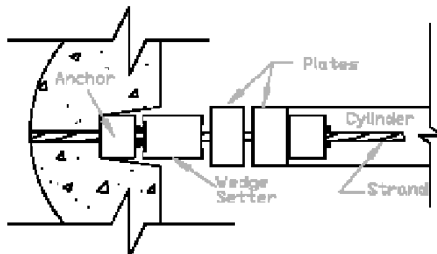
**NOTE:**

*The charts are provided as samples only and that the views may differ from your actual machinery. Always refer to your manufacturer's operation manual and the certified calibration chart provided at time of certification. Tension machinery should be calibrated at least once per year by authorized and certified testing companies and pressure charts updated. Follow all recommended safety instructions and procedures during the operation of tensioning machinery.*

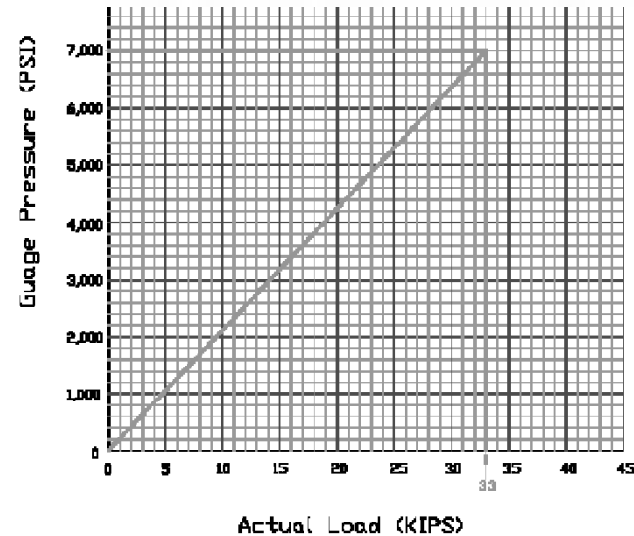
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Cross Section



Plan



Ram Calibration Curve  
Ram #: VSL-228-00661  
Gauge #: VSL-228-00661



8006 Route Court  
Springfield, Virginia 22150  
Phone Number: (703) 458-4300  
Fax Number: (703) 451-0862



DATE	DESCRIPTION	INT.	REV.
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			2
			3
			4

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SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

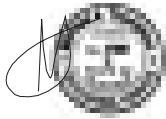
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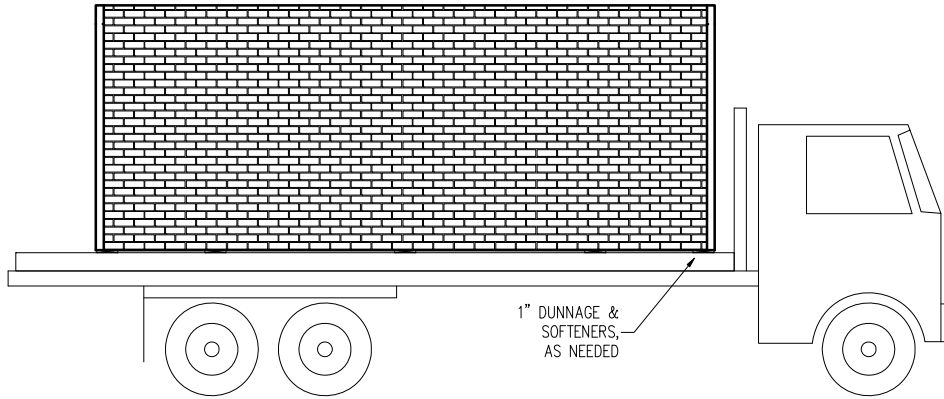


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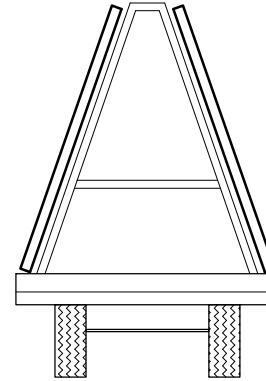
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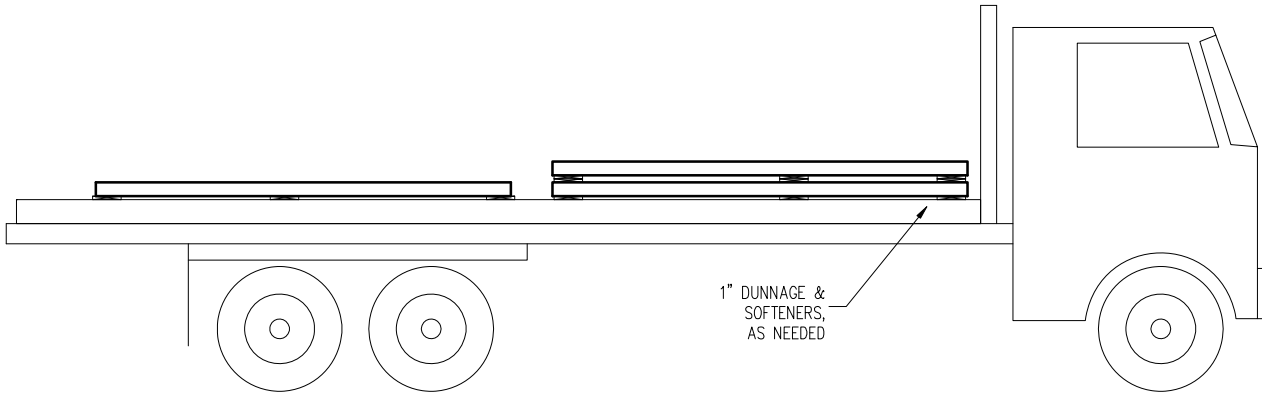
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1" DUNNAGE &  
SOFTENERS,  
AS NEEDED



4 PANELS  
PER TRUCK



1" DUNNAGE &  
SOFTENERS,  
AS NEEDED

SLAB	WEIGHT
FLOOR (2)	20,117 LB.
FRONT WALL	8,870 LB.
BACK WALL	8,870 LB.
LEFT WALL	7,160 LB.
RIGHT WALL	7,160 LB.
ROOF (2)	21,584 LB.
PW1	7,500LB.
PW2	6,050LB.
PW3	6,050LB.
<b>TOTAL</b>	<b>135,062 LB.</b>

DATE	DESCRIPTION	INL	REV

PROJECT: 22' - 6" x 21' - 5" x 8'  
SIX USER RESTROOM  
CONTRACTOR: LEESBURG CONCRETE INC  
LEESBURG, FL

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ISSUE DATE  
9/9/21

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PIECE MARK  
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## RL-4 TECH ERECTION ANCHOR W/ SHEAR PLATE 2-TON, 4-TON, 8-TON

The RL-4 Tech Erection Anchor with Shear Plate is specifically designed for horizontal to vertical edge pulls and the sheer rotation of thin-walled units. Two steel protrusions or "ears" on the head of the anchor provide added protection against spalling. These protrusions hug either side of the ring clutch, restricting its rotation during lateral pulls. As a result, lateral forces are transmitted directly to the edges of the anchor instead of the concrete. The shear plate of this RL-4 Tech Erection Anchor is positioned to resist shear loads for spill-free rotation. No shear reinforcement is required.

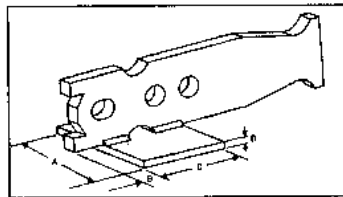
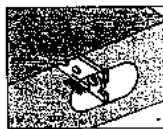
### Reinforcement

The stress caused by the sheer lift of a thin panel is resisted by the shear plate.

While the panel is being rotated on its edge, the load can usually be factored by 0.5. During this phase of the lift, the anchors are not bearing the full weight of the panel. The rated loads and minimum panel thicknesses can be found in the accompanying table on page 31.

During rotation, it is recommended that the sling angle be perpendicular to the surface.

Once the panel has been rotated to vertical, the tension lift is initiated. During the tension phase of the lift, the RL-4 Tech Erection Anchor with Shear Plate will work like the Spread Anchor or the Two-Hole Anchor. A glance at the accompanying table on page 34 will show that there are two sets of data. If the higher loads are desired, additional reinforcement should be placed through the lower hole of the anchor. Consult the reinforcement charts for rebar length, diameter, and bend angle.



- RL-4 Tech Erection Anchors with Shear Plate eliminate the need for sheer bars, making them easier to install.
- RL-4 Tech Erection Anchors with Shear Plate can be placed in thinner panels than the Tech Erection Anchors with Shear Bars.
- No special ring clutch or recessing members required.

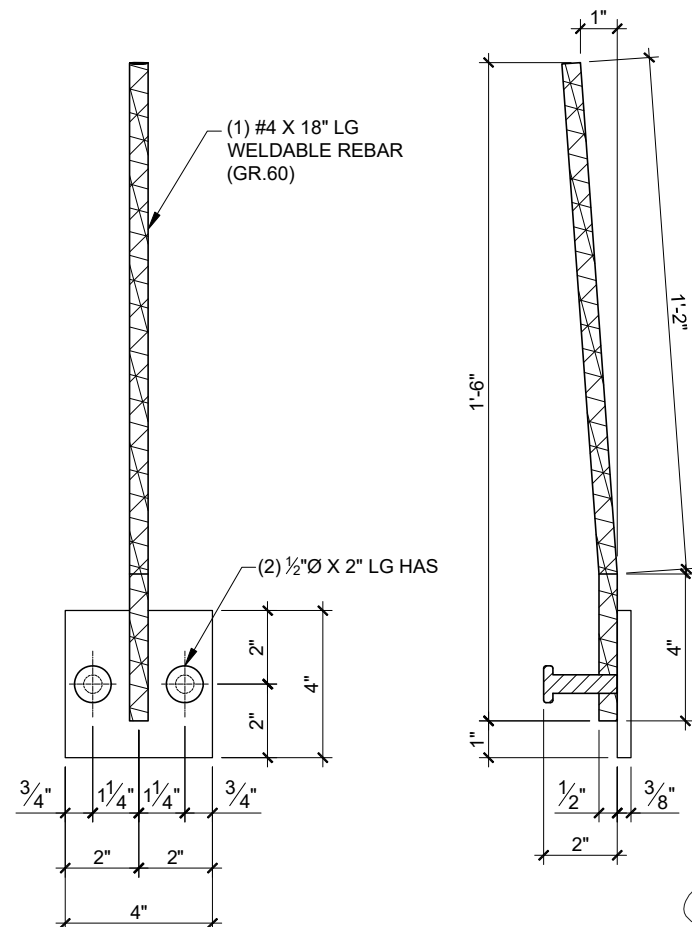
Ring Clutch System	Clutch I.D.	Item Number	A	B	C	D	Weight (lbs.)	Minimum Panel Thickness
2-Ton	2.5T	795279P	2-1/2"	3/4"	3"	1/4"	2.12	3-1/2"
4-Ton	5"	795438P	2-1/2"	1-1/4"	3"	3/8"	4.53	4"
8-Ton	10T	795696P	3"	1-5/8"	3-1/2"	3/8"	10.33	7"

See standard RL-3 Tech Erection Anchor for all other dimensions.  
Note: RL-4 Tech Erection Anchor with double shear plates available special order.

10-04

MEADOW BURKE PRODUCTS

30



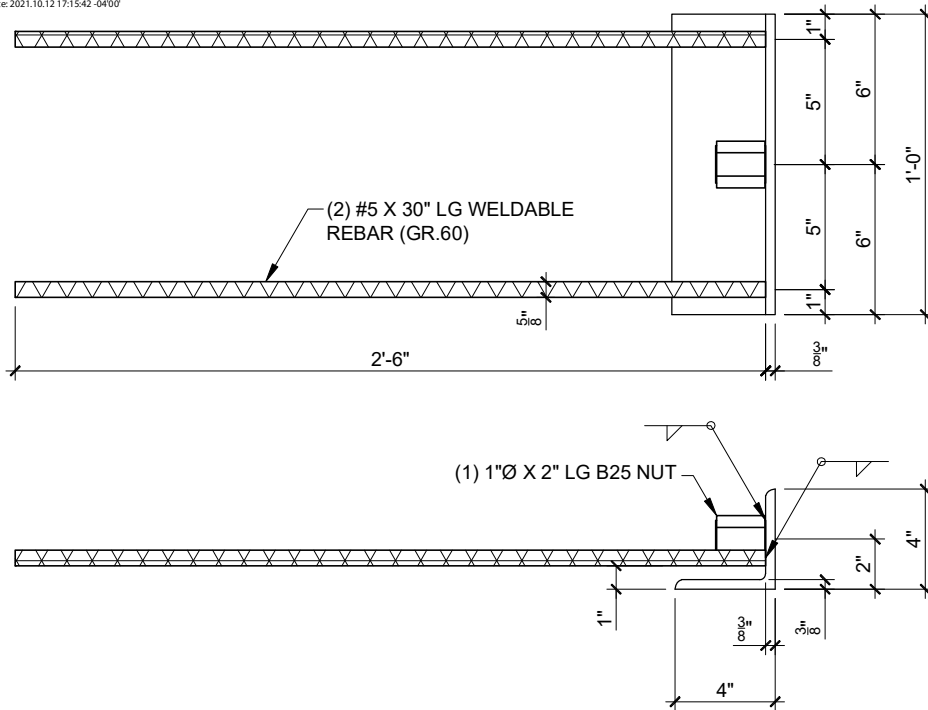
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HARDWARE INFORMATION		MATERIAL REQUISITIONS					JOB NO:	
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DRAWN BY								
CHECKED BY							MARK NUMBER	
PRODUCT TYPE								
USED WHERE ON BUILDING							PART NUMBER P101	

HARDWARE INFORMATION		MATERIAL REQUISITIONS					JOB NO:	
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CHECKED BY							MARK NUMBER	
PRODUCT TYPE								
USED WHERE ON BUILDING							PAGE NUMBER H.01	
							PART NUMBER P102	



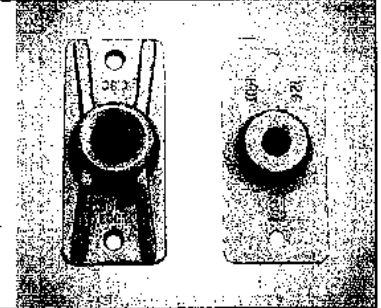
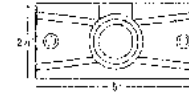
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## Patterson PT Anchorage System

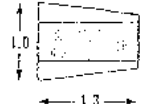
### U-5 Anchor

Patterson Universal U-5 Anchor is manufactured to ASTM A-536 and Post Tension specifications for A. L. Patterson. They are designed to be used on live stressing end or dead-end locations. The anchors attach easily and quickly to form work to allow for proper placement of the mono strand.



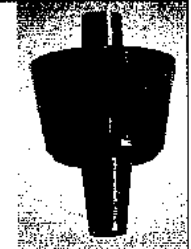
### U-5 Steel Wedges

Patterson U-5 Wedges are available in two- or three-piece Wedges sets designed to fit U-5 Anchors. They are manufactured of case hardened steel to precise specifications to insure quality results.



### Plastic Pocket Formers

Patterson Plastic Pocket Formers are available to pre-form stressing voids to allow for proper Post-Tensioning Procedures.



#### HARDWARE INFORMATION

FINISH  
DRAWN BY  
CHECKED BY  
PRODUCT TYPE  
USED WHERE  
ON BUILDING

#### MATERIAL REQUISITIONS

REQUISITION # OR REVISION	DATE	QTY TO BE ORDERED	TOTAL QTY TO DATE	MATERIAL TO BE USED FOR

JOB NO:

JOB NAME:

MARK NUMBER

PART NUMBER  
P103

#### HARDWARE INFORMATION

FINISH  
DRAWN BY  
CHECKED BY  
PRODUCT TYPE  
USED WHERE  
ON BUILDING

#### MATERIAL REQUISITIONS

REQUISITION # OR REVISION	DATE	QTY TO BE ORDERED	TOTAL QTY TO DATE	MATERIAL TO BE USED FOR

JOB NO:

JOB NAME:

MARK NUMBER

PAGE NUMBER  
H.02

PART NUMBER  
P104

Lifting/Handling Inserts  
and Accessories



F-63 Flared Thin Slab Coil Insert

The Dayton Superior F-63 Flared Thin Slab Coil Insert is designed for use in easy lift-in-place or other conditions where a longer insert cannot be used. Inserts should be set back 1/2" from the surface of the concrete, reinforcing at least 3/4" of concrete below the inserts. Minimum spacing between inserts is twice the minimum corner distance.

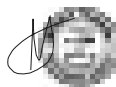


F-63 Flared Thin Slab  
Coil Insert

Minimum  
Insert Height (H) equals (B) half diameter,  
minimum 1/2"

Example:  
200, F-63 Flared Thin Slab Coil Inserts, 1" dia. x 4-1/2"  
plain finish.

F-63 Flared Thin Slab Coil Insert Selection Chart								
Soil Diameter	Insert Height	Minimum Edge Distance	Minimum Corner Distance	Safe Working Load Tension	Safe Working Load Shear	A	B	C
1/2"	1-3/4"	6"	6"	1,520 lbs	1,060 lbs	1-3/4"	4-1/8"	6-223"
3/4"	2-1/4"	8"	8"	2,040 lbs	1,410 lbs	2-1/4"	5-1/4"	8-223"
1"	3"	10"	10"	2,560 lbs	1,760 lbs	3"	6-1/4"	10-223"
1-1/8"	3-1/2"	12"	12"	3,080 lbs	2,110 lbs	3-1/2"	7-1/4"	12-223"
1-1/4"	4"	14"	14"	3,600 lbs	2,460 lbs	4"	8-1/4"	14-223"
1-3/8"	4-1/2"	16"	16"	4,120 lbs	2,810 lbs	4-1/2"	9-1/4"	16-223"
1-3/4"	5"	18"	18"	4,640 lbs	3,160 lbs	5"	10-1/4"	18-223"
2"	6"	24"	24"	6,160 lbs	4,220 lbs	6"	12-1/4"	24-223"
2-1/4"	7"	30"	30"	7,680 lbs	5,280 lbs	7"	15-1/4"	30-223"
2-3/4"	8"	36"	36"	9,200 lbs	6,340 lbs	8"	18-1/4"	36-223"
3"	9"	42"	42"	10,720 lbs	7,400 lbs	9"	21-1/4"	42-223"
3-1/4"	10"	48"	48"	12,240 lbs	8,460 lbs	10"	24-1/4"	48-223"
3-1/2"	11"	54"	54"	13,760 lbs	9,520 lbs	11"	27-1/4"	54-223"
3-3/4"	12"	60"	60"	15,280 lbs	10,580 lbs	12"	30-1/4"	60-223"
4"	14"	72"	72"	18,400 lbs	12,740 lbs	14"	36-1/4"	72-223"
4-1/2"	16"	84"	84"	21,520 lbs	14,900 lbs	16"	42-1/4"	84-223"
5"	18"	96"	96"	24,640 lbs	17,060 lbs	18"	48-1/4"	96-223"
5-1/4"	20"	108"	108"	27,760 lbs	19,220 lbs	20"	54-1/4"	108-223"
5-1/2"	22"	120"	120"	30,880 lbs	21,380 lbs	22"	60-1/4"	120-223"
5-3/4"	24"	132"	132"	34,000 lbs	23,540 lbs	24"	66-1/4"	132-223"
6"	26"	144"	144"	37,120 lbs	25,700 lbs	26"	72-1/4"	144-223"
6-1/4"	28"	156"	156"	40,240 lbs	27,860 lbs	28"	78-1/4"	156-223"
6-1/2"	30"	168"	168"	43,360 lbs	30,020 lbs	30"	84-1/4"	168-223"
6-3/4"	32"	180"	180"	46,480 lbs	32,180 lbs	32"	90-1/4"	180-223"
7"	34"	192"	192"	49,600 lbs	34,340 lbs	34"	96-1/4"	192-223"
7-1/4"	36"	204"	204"	52,720 lbs	36,500 lbs	36"	102-1/4"	204-223"
7-1/2"	38"	216"	216"	55,840 lbs	38,660 lbs	38"	108-1/4"	216-223"
7-3/4"	40"	228"	228"	58,960 lbs	40,820 lbs	40"	114-1/4"	228-223"
8"	42"	240"	240"	62,080 lbs	42,980 lbs	42"	120-1/4"	240-223"
8-1/4"	44"	252"	252"	65,200 lbs	45,140 lbs	44"	126-1/4"	252-223"
8-1/2"	46"	264"	264"	68,320 lbs	47,300 lbs	46"	132-1/4"	264-223"
8-3/4"	48"	276"	276"	71,440 lbs	49,460 lbs	48"	138-1/4"	276-223"
9"	50"	288"	288"	74,560 lbs	51,620 lbs	50"	144-1/4"	288-223"
9-1/4"	52"	300"	300"	77,680 lbs	53,780 lbs	52"	150-1/4"	300-223"
9-1/2"	54"	312"	312"	80,800 lbs	55,940 lbs	54"	156-1/4"	312-223"
9-3/4"	56"	324"	324"	83,920 lbs	58,100 lbs	56"	162-1/4"	324-223"
10"	58"	336"	336"	87,040 lbs	60,260 lbs	58"	168-1/4"	336-223"
10-1/4"	60"	348"	348"	90,160 lbs	62,420 lbs	60"	174-1/4"	348-223"
10-1/2"	62"	360"	360"	93,280 lbs	64,580 lbs	62"	180-1/4"	360-223"
10-3/4"	64"	372"	372"	96,400 lbs	66,740 lbs	64"	186-1/4"	372-223"
11"	66"	384"	384"	99,520 lbs	68,900 lbs	66"	192-1/4"	384-223"
11-1/4"	68"	396"	396"	102,640 lbs	71,060 lbs	68"	198-1/4"	396-223"
11-1/2"	70"	408"	408"	105,760 lbs	73,220 lbs	70"	204-1/4"	408-223"
11-3/4"	72"	420"	420"	108,880 lbs	75,380 lbs	72"	210-1/4"	420-223"
12"	74"	432"	432"	112,000 lbs	77,540 lbs	74"	216-1/4"	432-223"
12-1/4"	76"	444"	444"	115,120 lbs	79,700 lbs	76"	222-1/4"	444-223"
12-1/2"	78"	456"	456"	118,240 lbs	81,860 lbs	78"	228-1/4"	456-223"
12-3/4"	80"	468"	468"	121,360 lbs	84,020 lbs	80"	234-1/4"	468-223"
13"	82"	480"	480"	124,480 lbs	86,180 lbs	82"	240-1/4"	480-223"
13-1/4"	84"	492"	492"	127,600 lbs	88,340 lbs	84"	246-1/4"	492-223"
13-1/2"	86"	504"	504"	130,720 lbs	90,500 lbs	86"	252-1/4"	504-223"
13-3/4"	88"	516"	516"	133,840 lbs	92,660 lbs	88"	258-1/4"	516-223"
14"	90"	528"	528"	136,960 lbs	94,820 lbs	90"	264-1/4"	528-223"
14-1/4"	92"	540"	540"	140,080 lbs	96,980 lbs	92"	270-1/4"	540-223"
14-1/2"	94"	552"	552"	143,200 lbs	99,140 lbs	94"	276-1/4"	552-223"
14-3/4"	96"	564"	564"	146,320 lbs	101,300 lbs	96"	282-1/4"	564-223"
15"	98"	576"	576"	149,440 lbs	103,460 lbs	98"	288-1/4"	576-223"
15-1/4"	100"	588"	588"	152,560 lbs	105,620 lbs	100"	294-1/4"	588-223"
15-1/2"	102"	600"	600"	155,680 lbs	107,780 lbs	102"	300-1/4"	600-223"
15-3/4"	104"	612"	612"	158,800 lbs	109,940 lbs	104"	306-1/4"	612-223"
16"	106"	624"	624"	161,920 lbs	112,100 lbs	106"	312-1/4"	624-223"
16-1/4"	108"	636"	636"	165,040 lbs	114,260 lbs	108"	318-1/4"	636-223"
16-1/2"	110"	648"	648"	168,160 lbs	116,420 lbs	110"	324-1/4"	648-223"
16-3/4"	112"	660"	660"	171,280 lbs	118,580 lbs	112"	330-1/4"	660-223"
17"	114"	672"	672"	174,400 lbs	120,740 lbs	114"	336-1/4"	672-223"
17-1/4"	116"	684"	684"	177,520 lbs	122,900 lbs	116"	342-1/4"	684-223"
17-1/2"	118"	696"	696"	180,640 lbs	125,060 lbs	118"	348-1/4"	696-223"
17-3/4"	120"	708"	708"	183,760 lbs	127,220 lbs	120"	354-1/4"	708-223"
18"	122"	720"	720"	186,880 lbs	129,380 lbs	122"	360-1/4"	720-223"
18-1/4"	124"	732"	732"	189,920 lbs	131,540 lbs	124"	366-1/4"	732-223"
18-1/2"	126"	744"	744"	193,040 lbs	133,700 lbs	126"	372-1/4"	744-223"
18-3/4"	128"	756"	756"	196,160 lbs	135,860 lbs	128"	378-1/4"	756-223"
19"	130"	768"	768"	199,280 lbs	138,020 lbs	130"	384-1/4"	768-223"
19-1/4"	132"	780"	780"	202,400 lbs	140,180 lbs	132"	390-1/4"	780-223"
19-1/2"	134"	792"	792"	205,520 lbs	142,340 lbs	134"	396-1/4"	792-223"
19-3/4"	136"	804"	804"	208,640 lbs	144,500 lbs	136"	402-1/4"	804-223"
20"	138"	816"	816"	211,760 lbs	146,660 lbs	138"	408-1/4"	816-223"
20-1/4"	140"	828"	828"	214,880 lbs	148,820 lbs	140"	414-1/4"	828-223"
20-1/2"	142"	840"	840"	218,000 lbs	150,980 lbs	142"	420-1/4"	840-223"
20-3/4"	144"	852"	852"	221,120 lbs	153,140 lbs	144"	426-1/4"	852-223"
21"	146"	864"	864"	224,240 lbs	155,300 lbs	146"	432-1/4"	864-223"
21-1/4"	148"	876"	876"	227,360 lbs	157,460 lbs	148"	438-1/4"	876-223"
21-1/2"	150"	888"	888"	230,480 lbs	159,620 lbs	150"	444-1/4"	888-223"
21-3/4"	152"	900"	900"	233,600 lbs	161,780 lbs	152"	450-1/4"	900-223"
22"	154"	912"	912"	236,720 lbs	163,940 lbs	154"	456-1/4"	912-223"
22-1/4"	156"	924"	924"	239,840 lbs	166,100 lbs	156"	462-1/4"	924-223"
22-1/2"	158"	936"	936"	242,960 lbs	168,260 lbs	158"	468-1/4"	936-223"
22-3/4"	160"	948"	948"	246,080 lbs	170,420 lbs	160"	474-1/4"	948-223"
23"	162"	960"	960"	249,200 lbs	172,580 lbs	162"	480-1/4"	960-223"
23-1/4"	164"	972"	972"	252,320 lbs	174,740 lbs	164"	486-1/4"	972-223"
23-1/2"	166"	984"	984"	255,440 lbs	176,900 lbs	166"	492-1/4"	984-223"
23-3/4"	168"	996"	996"	258,560 lbs	179,060 lbs	168"	498-1/4"	996-223"
24"	170"	1008"	1008"	261,680 lbs	181,220 lbs	170"	504-1/4"	1008-223"
24-1/4"	172"	1020"	1020"	264,800 lbs	183,380 lbs	172"	510-1/4"	1020-223"
24-1/2"	174"	1032"	1032"	267,920 lbs	185,540 lbs	174"	516-1/4"	1032-223"
24-3/4"	176"	1044"	1044"	271,040 lbs	187,700 lbs	176"	522-1/4"	1044-223"
25"	178"	1056"	1056"	274,160 lbs	189,860 lbs	178"	528-1/4"	1056-223"
25-1/4"	180"	1068"	1068"	277,280 lbs	192,020 lbs	180"	534-1/4"	1068-223"
25-1/2"	182"	1080"	1080"	280,400 lbs	194,180 lbs	182"	540-1/4"	1080-223"
25-3/4"	184"	1092"	1092"	283,520 lbs	196,340 lbs	184"	546-1/4"	1092-223"
26"	186"	1104"	1104"	286,640 lbs	198,500 lbs	186"	552-1/4"	1104-223"
26-1/4"	188"	1116"	1116"	289,760 lbs	200,660 lbs	188"	558-1/4"	1116-223"
26-1/2"	190"	1128"	1128"	292,880 lbs	202,820 lbs	190"	564-1/4"	1128-223"
26-3/4"	192"	1140"	1140"	296,000 lbs	204,980 lbs	192"	570-1/4"	1140-223"
27"	194"	1152"	1152"	299,120 lbs	207,140 lbs	194"	576-1/4"	1152-223"
27-1/4"	196"	1164"	1164"	302,240 lbs	209,300 lbs	196"	582-1/4"	1164-223"
27-1/2"	198"	1176"	1176"	305,360 lbs	211,460 lbs	198"	588-1/4"	1176-223"
27-3/4"	200"	1188"	1188"	308,480 lbs	213,620 lbs	200"	594-1/4"	1188-223"
28"	202"	1200"	1200"	311,600 lbs	215,780 lbs	202"	600-1/4"	1200-223"
28-1/4"	204"	1212"	1212"	314,720 lbs	217,940 lbs	204"	606-1/4"	1212-223"
28-1/2"	206"	1224"	1224"	317,840 lbs	220,100 lbs	206"	612-1/4"	1224-223"
28-3/4"	208"	1236"	1236"	320,960 lbs	222,260 lbs	208"	618-1/4"	1236-223"
29"	210"	1248"	1248"	324,080 lbs	224,420 lbs	210"	624-1/4"	1248-223"
29-1/4"	212"	1260"	1260"	327,200 lbs	226,580 lbs	212"	630-1/4"	1260-223"
29-1/2"	214"	1272"	1272"	330,320 lbs	228,740 lbs	214"	636-1/4"	1272-223"
29-3/4"	216"	1284"	1284"	333,440 lbs	230,900 lbs	216"	642-1/4"	1284-223"
30"	218"	1296"	1296"	336,560 lbs	233,060 lbs	218"	648-1/4"	1296-223"
30-1/4"	220"	1308"	1308"	339,680 lbs	235,220 lbs	220"	654-1/4"	1308-223"
30-1/2"	222"	1320"	1320"	342,800 lbs	237,380 lbs	222"	660-1/4"	1320-223"
30-3/4"	224"	1332"	1332"	345,920 lbs	239,540 lbs	224"	666-1/4"	1332-223"
31"	226"	1344"	1344"	349,040 lbs	241,700 lbs	226"	672-1/4"	1344-223"
31-1/4"	228"	1356"	1356"	352,160 lbs	243,860 lbs	228"	678-1/4"	1356-223"
31-1/2"	230"	1368"	1368"	355,280 lbs	246,020 lbs	230"	684-1/4"	1368-223"
31-3/4"	232"	1380"	1380"	358,400 lbs	248,180 lbs	232"	690-1/4"	1380-223"
32"	234"	1392"	1392"	361,520 lbs	250,340 lbs	234"	696-1/4"	1392-22



Digitally signed by MICHAEL THOMPSON  
Reason: This item has been digitally signed and sealed by MICHAEL A. THOMPSON on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.  
Date: 2023.10.12 17:17:28 -0400

## RL-21 FLAT FOOT ANCHOR

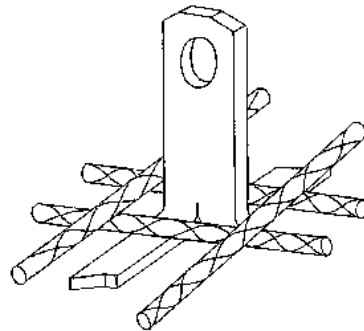
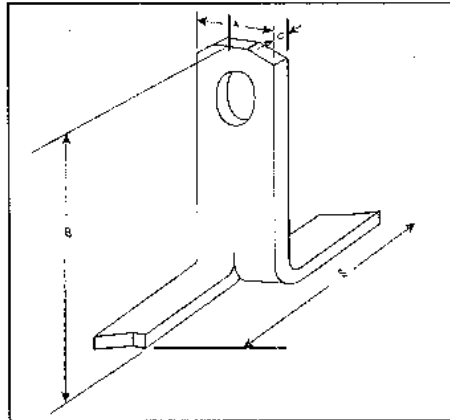
The RL-21 Flat Foot Anchor is used for backstripping and for lifting thin-walled units. Its advantage over the RL-24 Plate Anchor; also used for thin-walled units, is that it is somewhat less expensive.

The "legs" of the RL-21 Flat Foot Anchor extend 4" or more to accommodate the recommended reinforcing.

### Reinforcement

Using #4 rebar cut to a length of 18", simply crisscross the legs of the anchor as shown in the accompanying diagram. Maintain a minimum cover below the feet or 3/4" of concrete to obtain listed working loads.

**Note:** The RL-21 Flat Foot Anchor has allowable face shear loads that are equal to or greater than unreinforced face tension loads for anchors located in a panel or concrete unit at a distance of at least  $2B + A$  from the edges.



### RL-21 FLAT FOOT ANCHOR DATA

Ring Clutch System	Clutch ID	Item Number	A	B	C	S	Allowable Unreinforced Tension Load 4.0:1 SF	Allowable Reinforced Tension Load <sup>a</sup> 4.0:1 SF	Ultimate Mechanical Load Tension	Weight Per Piece
2T	2.5T	79352	1-1/4"	2-3/4"	3/16"	4"	1325 lbs.	2000 lbs.	8000 lbs.	0.32 lbs.
1T	1.5T	79353	1-1/4"	2-3/4"	3/16"	1"	1000 lbs.	2000 lbs.	8000 lbs.	0.28 lbs.

### MATERIAL REQUISITIONS

FINISH	REQUISITION # OR REVISION	DATE	QTY TO BE ORDERED	TOTAL QTY TO DATE	MATERIAL TO BE USED FOR
DRAWN BY					
CHECKED BY					
PRODUCT TYPE					
USED WHERE ON BUILDING					

JOB NO:

JOB NAME:

MARK NUMBER

PART NUMBER  
P107

Product Data Sheet  
Edition 5.13.2018  
Sikaflex-15 LM

## Sikaflex®-15 LM

### High-performance, low-modulus elastomeric sealant

<b>Description</b>	Sikaflex-15 LM is a low-modulus, high-performance, 1-component, polyurethane-based, non-sag elastomeric sealant. Sikaflex-15 LM conforms to TT-S-00230C, Type S, Class A; ASTM C-430, Type S, Grade N/B, Class 100/50; and T. M. G. A. C. M. Federal Specification for adhesives - TT-S-001543 A, Type non-sag. Tested in accordance with ASTM C-1382 for use in EPS systems.
<b>Where to use</b>	<ul style="list-style-type: none"><li>Excellent for moving joints in vertical applications.</li><li>Suitable for use between similar as well as dissimilar materials.</li><li>Typical applications include joints in concrete panel and wall systems, around windows and door frames, reglets, flashing, common roofing detail applications, etc.</li><li>Exceptional sealant choice for high-rise and flexible applications where high movement capability is required.</li><li>2- and 3-hour UL Fire Rated Joint Systems Nos. FF-S-0007, FF-S-0007, FF-S-0015, FF-S-0018, WW-S-0015, WW-S-0015, WW-S-0011 and WW-S-0010.</li><li>An effective sealant for use in Exterior Insulation Finishes Systems (EIFS).</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>Low modulus of elasticity.</li><li>Easy and ready to use.</li><li>Eliminates time, effort, waste, and equipment clean-up.</li><li>Comes to a durable, flexible consistency.</li><li>Exceptional cut and tear resistance.</li><li>Stress relaxation properties.</li><li>Excellent adhesion.</li><li>Bonds to most construction materials without a primer.</li><li>Compatible with water-, oil- and rubber based paints.</li><li>Excellent resistance to aging, weathering.</li><li>Jet fuel resistant.</li><li>Proven in tough climates around the world.</li><li>Non-leaching.</li><li>Capable of +100% / -50% joint movement.</li></ul>
<b>Chemical Resistance</b>	Good resistance to water, diluted acids, and diluted alkalis. Not normally for fully immersed conditions. Consult Technical Service for specific data.
<b>Packaging Coverage</b>	15.1 lb. sz. (330 mL), 20 lb. sz. (891 mL), 4.3 gal (TP L) or 4.9 gal (TP L) or 4.9 gal (TP L) in a 55 gal drum

### Typical Data (material and curing conditions @ 77°F (25°C) and 50% RH)

all data are based on test results from laboratory tests. Actual performance may vary depending on application, environmental conditions, and substrate. For more information, contact your local Sika representative.

Shelf Life: 12 months (in sealed containers), 6 months (open containers), 3 months (open containers).

PRICING TO EACH USER OF ANY SIKAPRODUCT, THE USER MUST ACQUIRE THE NEAREST SIKAPRODUCT AND THE USER MUST ACQUIRE THE NEAREST SIKAPRODUCT DATA SHEET, PRODUCT LABEL, AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM](http://usa.sika.com) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.851.7452. NOTHING CONTAINED IN ANY SIKAPRODUCT OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT TO OBTAIN OR FOLLOW THE INSTRUCTIONS AND PRECAUTIONS FOR EACH SIKAPRODUCT AS SET FORTH IN THE CORRESPONDING PRODUCT DATA SHEET, PRODUCT LABEL, AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.



### MATERIAL REQUISITIONS

FINISH	REQUISITION # OR REVISION	DATE	QTY TO BE ORDERED	TOTAL QTY TO DATE	MATERIAL TO BE USED FOR
DRAWN BY					
CHECKED BY					
PRODUCT TYPE					
USED WHERE ON BUILDING					

JOB NO:

JOB NAME:

MARK NUMBER

PAGE NUMBER  
H.04

PART NUMBER  
--

**Santa Fe Lake Park** Map Links  
24500 NE SR 26, Melrose, FL 32666

A 25 acre special use resource park with a 2-lane boat ramp on the Santa Fe River.

**MapQuest Map:**

<http://www.mapquest.com/maps?city=Melrose&state=FL&address=24500+NE+State+Road+26&zipcode=32666-6102&country=US&latitude=29.708477&longitude=-82.063992&geocode=ADDRESS>

**Yahoo Map:**

<http://maps.yahoo.com/#mvt=m&lat=29.708627&lon=-82.06401&zoom=16&q1=24500%20NE%20sr%2026%2C%20Melrose%2C%20Alachua%2C%20Florida%2032666>

**Google Map:**

[http://maps.google.com/maps?f=q&source=s\\_q&hl=en&q=Florida+26+%26+County+Boat+Ramp+Rd,+Melrose,+Alachua,+Florida+32666&sll=29.734123,-82.060661&sspn=0.086753,0.113125&ie=UTF8&cd=1&geocode=FTdRxQEdkNEb-w&split=0&hq=&hnear=Florida+26+%26+County+Boat+Ramp+Rd,+Melrose,+Alachua,+Florida+32666&ll=29.708351,-82.062957&spn=0.011313,0.014141&z=16](http://maps.google.com/maps?f=q&source=s_q&hl=en&q=Florida+26+%26+County+Boat+Ramp+Rd,+Melrose,+Alachua,+Florida+32666&sll=29.734123,-82.060661&sspn=0.086753,0.113125&ie=UTF8&cd=1&geocode=FTdRxQEdkNEb-w&split=0&hq=&hnear=Florida+26+%26+County+Boat+Ramp+Rd,+Melrose,+Alachua,+Florida+32666&ll=29.708351,-82.062957&spn=0.011313,0.014141&z=16)