

Exhibit D
INVITATION TO BID 21-0938

**SPECIFICATIONS AND DRAWINGS FOR PROVISION
AND INSTALLATION OF RESTROOMS AND OTHER PRE-
CAST BUILDINGS**

LAKE COUNTY PARKS AND TRAILS

Table of Contents

Drawings and Specifications for Restrooms and other Pre-cast Buildings Lake County, Florida

Section 1. Finish Options

Section 2. Precast Concrete Buildings

Specifications for the Precast Concrete Building

Drawing 1: 10' x 12' x 8'h storage building layout and elevation

Drawing 2: 30' x 8' x 8'h dugout layout and elevation

Drawing 3: 31' x 8' x 8'h dugout with storage layout and elevation

Section 3. Precast Concrete Dry Vault Restrooms

Specifications for the Precast Concrete Dry Vault Restroom

Drawing 4: Blue Ridge Single Dry Vault Restroom

Drawing 5: Sierra Outback Double Dry Vault Restroom

Section 4. Precast Concrete Plumbed Restrooms

Specifications for the Precast Concrete Plumbed Restroom

Drawing 6: Logan Single Plumbed Restroom

Drawing 7: Carson Double Plumbed Restroom

Drawing 8: Sierra Outback Double Plumbed Restroom

Drawing 9: Northlake Triple Plumbed Restroom

Drawing 10: The Volusia 6 stall Plumbed Restroom

Drawing 11: 20' x 24' x 8'h Concession with Four Stall Restroom

Drawing 12: 24' x 30' x 8'h Concession with Eight Stall Restroom

Section 5. Site Assembled Precast Panelized Building

Specifications for the Site Assembled Precast Panelized Building

Drawing 13: 20' x 24' p.43

Drawing 14: 20' x 30' p.44

Section 1

Finish Options



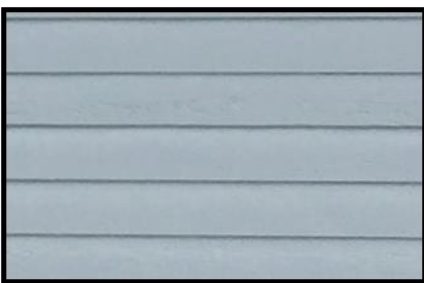
Split Face Block



Stucco



Barn Board



Lap Siding

SECTION 2

Precast Concrete Buildings

Specifications for the Precast Concrete Building

Drawing 1: 10' x 12' x 8'h storage building layout and elevation

Drawing 2: 30' x 8' x 8'h dugout layout and elevation

Drawing 3: 31' x 8' x 8'h dugout with storage layout and elevation

PRECAST CONCRETE BUILDING

SPECIFICATION SHEET

PART 1 – GENERAL

1.01 SUMMARY

Contractor or manufacturer to furnish a turn-key precast concrete building to be brought to the site in assembled modules or site assembled depending on size and set upon a level and compacted granular rock sub-base with up to a 100 ton crane, all included in the bid price. All site clearing and rough grading to within 6 inches of level are done by owner, excavation for sub-base to be done by contractor or manufacturer. To be an EasiSet/EasiSpan Building as manufactured by Leesburg Concrete Company Incorporated. Contractor or Manufacturer will pull all permits and connect to utilities, if any, that are stubbed no more than 25' from the desired install location; utilities located further than 25' will be individually negotiated.

1.02 QUALITY ASSURANCE

- A. Florida DBPR Insignia required, Section 553, Part I F.S.
- B. ACI-318-08, "Building Code Requirements for Reinforced Concrete". Concrete Reinforcing Institute, "Manual of Standard Practice".
- C. ANSI/ASCE-7-10 "Building Code Requirement for Minimum Design Loads in Buildings and Other Structures".
- D. Florida Building Code 2014
- E. IBC 2012
- F. Concrete Reinforcing Institute, "Manual of Standard Practice".
- G. UL-752 test method level 5 for bullet resistance on concrete surfaces, certified by an independent ballistic laboratory.
- H. Fabricator must be a certified producer/member of The National Precast Concrete Association (NPCA).
- I. No alternate building designs to the pre-engineered building as produced by Leesburg Concrete will be allowed unless pre-approved by the owner 10 days prior to the bid date.

1.03 DESIGN REQUIREMENTS

- A. Design Loads
 - 1. Seismic Design Category 'C', Importance Factor 1
 - 2. Standard Live Roof Load – 60 PSF
 - 3. Standard Floor Load – 250 PSF (if precast floor provided by building manufacturer)
 - 4. Standard Wind Loading – ASCE 7-10 conforming to geographic area.
- B. Roof: To be post tensioned. The roof shall extend 4" beyond the wall panel and have a turndown design which extends ½" below the top edge of the wall panels to prevent water migration into the building along the top of wall panels.
- C. Floor – The floor is provided with the precast building and the walls sit on top of the floor with the floor extending to the edge of the walls for additional strength. Floor should be a minimum of 5 inches thick

and have a looped post tension cable. Floor will have a ½" recessed keyway around the perimeter to accept the walls so as to form a physical water barrier.

1.04 SUBMITTALS

- A. Drawings and calculations sealed by a professional engineer, licensed to practice in the state where the project is located, shall be submitted for approval.
- B. Manufacturer to provide cut sheets on all attached fixtures.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Concrete: Steel-reinforced, 5000 PSI minimum 28-day compressive strength.
- B. Reinforcing Steel: ASTM A615, grade 60 unless otherwise specified.
- C. Post-tensioning Strand: Roof and floor shall be post-tensioned with a 41K polystrand CP50, .50", 270 KSI, 7-wire strand post tension cable, enclosed within a greased plastic sheath (ASTM A416).
- D. Caulking: All joints between panels shall be caulked on the exterior and interior surface of the joints. Caulking shall be SIKAFLEX-1A elastic sealant or equal. Exterior caulk joint to be 3/8" x 3/8" square so that sides of joint are parallel for correct caulk adhesion.
- E. Vents: Two screened aluminum vents to be cast in rear wall. Vents shall be SUNVENT 8"x16" with bug screen, or equal
- F. Panel Connections: All panel connections shall be welded together utilizing imbedded weld plates with Nelson anchors. Assembly shall be welded by a certified welder.

2.02 ACCESSORIES

Doors and Frames: Shall comply with Steel Door Institute "Recommended Specifications for Standard Steel Doors and Frames" (SDI-100), and as herein specified. The building may be equipped with double 3'-0" x 6'-8" x 1-3/4", 18-gauge galvanized/insulated CECO Imperial right hand reverse metal doors with 16-gauge galvanized frames, or equal. Doors and frames shall be bonderized and painted one coat of rust inhibitive primer and one finish coat of enamel paint.

A. Door Hardware:

1. Handle: Yale 8822 Mortise Lever Lockset
2. Hinges: PB-31/NRP/26D 4 ½" x 4 ½" (chrome-plated with non-removable hinge pins), 3 per door or equal.
3. Lock Set: PDQ Industries KR116 - 32D (stainless steel finish) or equal.
4. Surface Bolt, Upper: Cal-Royal 045901426D (satin chrome finish) or equal.
5. Surface Bolt, Lower: Cal-Royal 045901426D (satin chrome finish) or equal.
6. Removable Astragal: A4441/68R or equal, optional.
7. Threshold: National Guard 897V60 raised interior, extruded aluminum threshold with neoprene seal or equal.

8. Door Holder: Glynn-Johnson 904H US32D (stainless steel finish), overhead slide type surface mounted door holder or equal.
9. Drip Cap: National Guard 15D72 or equal.
10. Door Stop: Ives 445B26D (Inactive leaf only) or equal.

B. 1- Solatube 160 DS 10" skylight.

2.03 FINISHES

- A. Interior of Building: Smooth form finish on all interior panel surfaces.
- B. Exterior of Building shall be form lined finished in a pattern selected from the Lake County Building Finish Options page and noted on the drawings.
- C. Paint: 1 coat of Loxon primer and two coats of Duracraft paint in owner's choice of exterior color. Inside walls to be painted in white, floor to be painted in Sherwin Williams HC Silver Gray # 124.

PART 3 - EXECUTION

3.01 SITE PREPARATION

- A. Building shall bear fully on a bed of crushed 3/8" stone base that is at least one foot larger in all directions than the footprint of the building.
- B. Stone shall be a minimum of 4" thick or down to firm sub grade. 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 after the building is set.
- C. 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

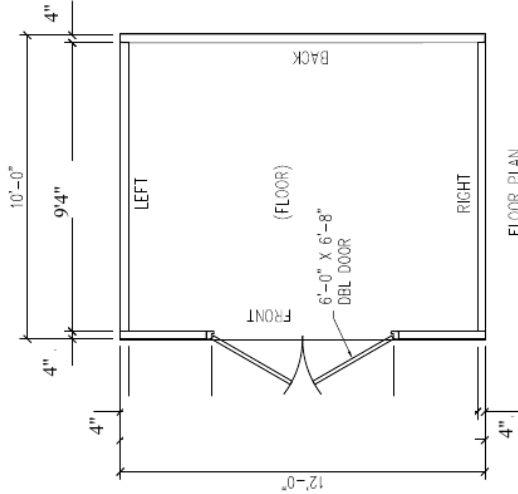
If building is placed on pavement or concrete slab, substrate below pavement or slab must have a vertical soil capacity of 1,500 pounds per square foot. Place stone or sand to 1" above highest point of area where building will be placed and at least 1'-0" wide all around the building footprint. Retain stone or sand with a perimeter form to prevent the material from washing out.

- D. Provide positive drainage for the fill, pad, or slab as required.
- E. Contractor or Manufacturer to haul off excess dirt from excavation for sub-base and sidewalk.

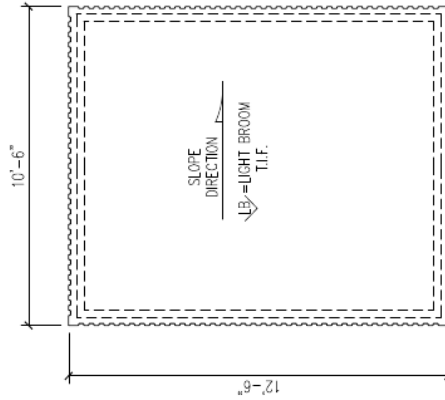
3.02 ACCESS

The contractor must provide for a level, unobstructed area large enough for a 100 ton 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 obstructions may be within 75' radius of center of pad. Firm roadbed with turns that allow 65' lowbed tractor-trailer must be provided directly to site. No building shall be placed closer than 2'-0" to an existing structure.

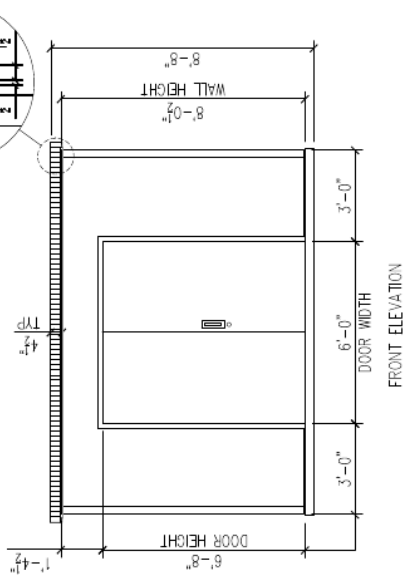
10' X 12' X 8' STORAGE BUILDING ITEM #1



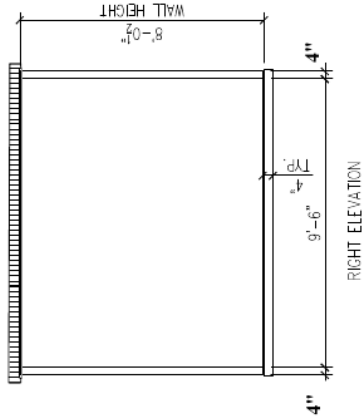
FLOOR PLAN



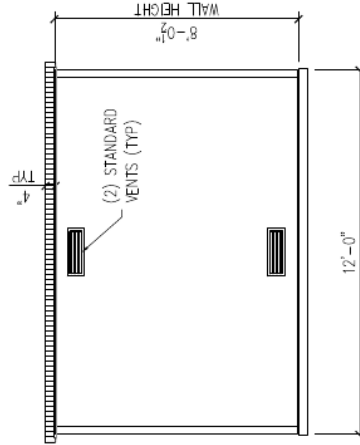
ROOF PLAN



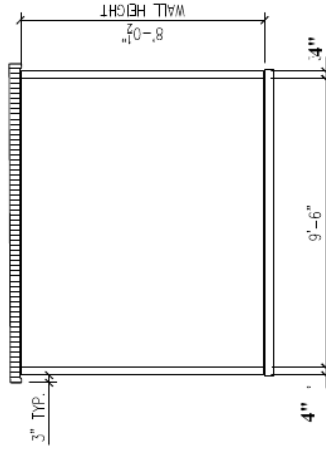
FRONT ELEVATION



RIGHT ELEVATION



REAR ELEVATION



LEFT ELEVATION

NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE

- EASI-BRICK
- EXPOSED AGGREGATE
- BROOM
- OTHER: _____

GENERAL NOTES:
 1. ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, DOWNS, ETC. MUST BE SIZED AND LOCATED BY OWNER ON THIS DRAWING. OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED IF THE FINISHES AND CONDITIONS OR REINFORCING ARE DIFFERENT FROM EXISTING.
 2. ALL MATERIALS MUST BE APPROVED BY THE ARCHITECT.
 3. A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY

BUILDING WEIGHT APPROX. 40,157 lbs

BUILDING LAYOUT



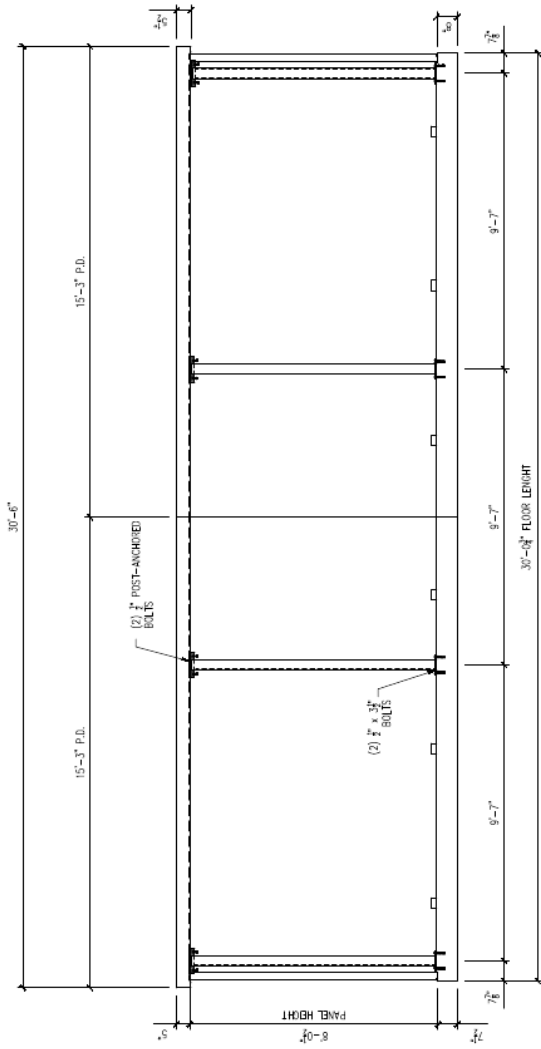
DATE	DESCRIPTION	INL	REV

PROJECT: 10'X12'X8' STD EASI-SET BUILDING
ADDRESS
CITY STATE
CONTRACTOR: CONTRACTOR

BUILDING LAYOUT
SCALE
DRAWN BY
CHECK BY
ISSUE DATE
SHEET
LAYOUT

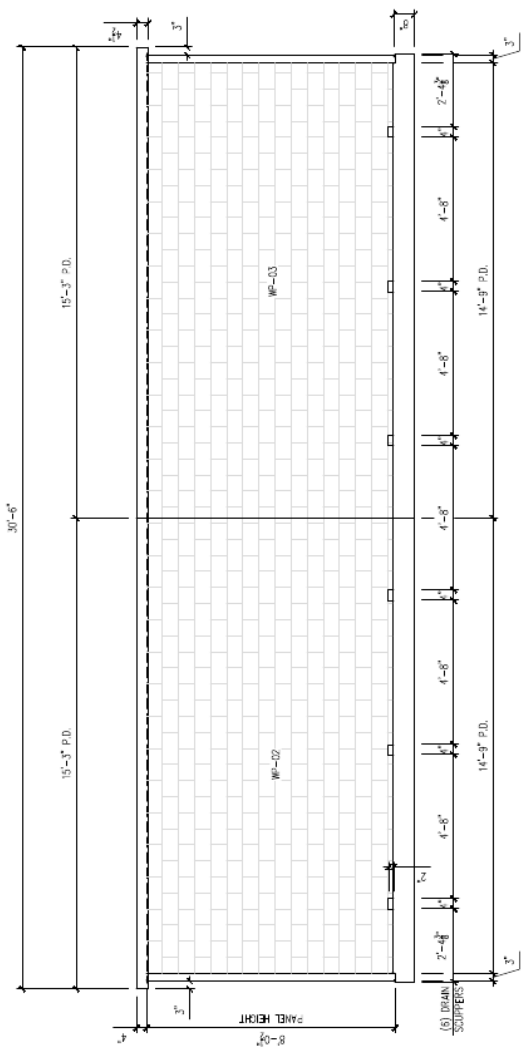
MESSAGE CENTER	TO BE SELECTED
BUILDING FINISH	-
BUILDING STAIN	-
DOOR COLOR	-
BUILDING WEIGHT	-
CUSTOMER APPROVAL	DATE
APPROVED BY:	DATE

30' X 8' X 8' DUGOUT ITEM #2



A FRONT ELEVATION

NOT FOR CONSTRUCTION DIMENSIONS ARE FOR REFERENCE ONLY



C REAR ELEVATION

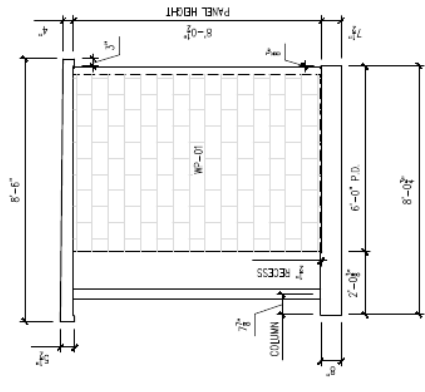
BUILDING WEIGHT IS APPROX. 56,962 lbs



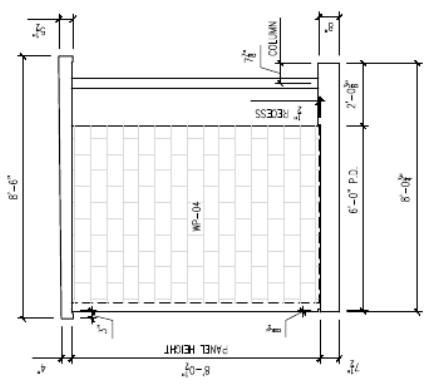
DATE	DESCRIPTION	INI.	REV.

PROJECT:	30'-0" X 8'-0" X 8'-0" EASY-SET DUGOUT
CONTRACTOR:	

ELEVATIONS	DUGOUT
JOB #	
DRAWN BY	
CHECK BY	
ISSUE DATE	12.01.14
SHEET	
ELEVATIONS	



B RIGHT ELEVATION



D LEFT ELEVATION

SECTION 3

Precast Concrete Dry Vault Restrooms

Specifications for the Precast Concrete Dry Vault Restroom

Drawing 4: Blue Ridge Single Dry Vault Restroom

Drawing 5: Sierra Outback Double Dry Vault Restroom

PRECAST CONCRETE DRY VAULT RESTROOM

SPECIFICATION SHEET

PART 1 – GENERAL

1.01 SUMMARY

Contractor or manufacturer to furnish a turn-key precast concrete dry vault restroom. Building to be brought to the site in assembled modules and set upon a level and compacted granular rock sub-base with up to a 100 ton crane, all included in the bid price. All site clearing and rough grading to within 6 inches of level are done by owner, excavation for restroom vaults to be done by contractor or manufacturer. To be an EasiSet/EasiSpan Building as manufactured by Leesburg Concrete Company Incorporated. Contractor or Manufacturer will pull all permits and connect to utilities, if any, that are stubbed no more than 25' from the desired install location; utilities located further than 25' will be individually negotiated.

1.02 QUALITY ASSURANCE

- A. Florida DBPR Insignia required, Section 553, Part I F.S.
- B. ACI-318-08, "Building Code Requirements for Reinforced Concrete". Concrete Reinforcing Institute, "Manual of Standard Practice".
- C. ANSI/ASCE-7-10 "Building Code Requirement for Minimum Design Loads in Buildings and Other Structures".
- D. Florida Building Code 2014
- E. IBC 2012
- F. Concrete Reinforcing Institute, "Manual of Standard Practice".
- G. UL-752 test method level 5 for bullet resistance on concrete surfaces certified by an independent ballistic laboratory.
- H. Fabricator must be a certified producer/member of The National Precast Concrete Association (NPCA).
- I. No alternate building designs to the pre-engineered building as produced by Leesburg Concrete will be allowed unless pre-approved by the owner 10 days prior to the bid date.

1.03 DESIGN REQUIREMENTS

A. Design Loads

- 1. Seismic Design Category 'C', Importance Factor 1
- 2. Standard Live Roof Load – 60 PSF
- 3. Standard Floor Load – 250 PSF (if precast floor provided by building manufacturer)
- 4. Standard Wind Loading – ASCE 7-10 conforming to geographic area.
- 5. Designed to meet the requirements of the Americans With Disabilities Act Requirements and Uniform Federal Accessibility Standard including as of the date of these specifications.
- 6. Incorporates all design aspects of Sweet Smelling Technology (SST) as outlined by Brian Cook for the U. S. Forest

Service. SST equals Fresh Air Naturally (FAN) by Easi-Set Industries. ("In Depth Design and Maintenance Manual for Vault Toilets" – July 1991 – Publication No. 9123 1601)

7. Has one or two, one-piece vault(s) unit(s) to support the entire building, with a one piece floor unit with a 150 p.s.f. load capacity.

- B. Roof: To be post tensioned. The roof shall extend 4" beyond the wall panel and have a turndown design which extends ½" below the top edge of the wall panels to prevent water migration into the building along the top of wall panels.

- C. Floor – The floor covers the entire footprint of the holding tanks and the walls sit on top of the floor with the floor extending to the edge of the walls for additional strength. Floor should be a minimum of 5 inches thick and have a looped post tension cable. Floor will have a ½" recessed keyway around the perimeter to accept the walls so as to form a physical water barrier.

- D. Vault - Precast Concrete Vault
 1. Plate for vault cleanout cover will be ¼" thick diamond plate steel. Lid will be configured so that it can be locked with a padlock. Lid will be designed to resist surface runoff penetration into the vault. A neoprene gasket will be provided around the entire perimeter of the lid to provide an airtight seal.

 2. Vault Coating - A USFS approved black Bituthene coatings as outlined in the ("In Depth Design and Maintenance Manual for Vault Toilets" – July 1991 – Publication No. 9123 1601) will be applied to the interior walls and the bottom of the building floor which prevents hydrogen sulfite gas from attacking the concrete.

 3. Sealant between vault and toilet floor to be 1"x1" Butyl Rubber Sealant. A septic tank grade neoprene gasket is also applied in between the holding tanks and floor to seal the joint.

1.04 SUBMITTALS

- A. Drawings and calculations sealed by a professional engineer, licensed to practice in the state where the project is located, shall be submitted for approval.
- B. Manufacturer to provide cut sheets on all attached fixtures.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Concrete: Steel-reinforced, 5000 PSI minimum 28-day compressive strength.

- B. Reinforcing Steel: ASTM A615, grade 60 unless otherwise specified.

- C. Post-tensioning Strand: Roof and floor shall be post-tensioned with a 41K polystrand CP50, .50", 270 KSI, 7-wire strand post tension cable, enclosed within a greased plastic sheath (ASTM A416).

- D. Caulking: All joints between panels shall be caulked on the exterior and interior surface of the joints. Caulking shall be SIKAFLEX-1A elastic sealant or equal. Exterior caulk joint to be 3/8" x 3/8" square so that sides of joint are parallel for correct caulk adhesion.

- E. Vents: Two screened aluminum vents to be cast in rear wall. Vents shall be SUNVENT 8"x16" with bug screen, or equal.

- F. Panel Connections: All panel connections shall be welded together utilizing imbedded weld plates with Nelson anchors. Assembly shall be welded by a certified welder.

2.02 ACCESSORIES

1. Doors and Frames: 16 gauge galvanized 3068 HM door and frame, 4 7/8" throat, Schlage ND series heavy duty grade 1 cylindrical lockset and LCN series 1 Closer surface mounted. All doors and frames are in accordance with NOA 10-0209.07
2. ADA Stainless Steel Mirror
3. Toilet tissue dispenser Bobrick model # BOB-2740
4. Grab bar 36" Bobrick model # B 5806.99x36.
5. Grab bar 42" Bobrick model # B 5806.99x42.
6. Soap Dispenser by Bobrick model # BOB B-2112
7. Wall mounted trash can by Bobrick model # BOB-279
8. Door signs by Hillman with Braille, Men, Women, Unisex
9. ADA Compliant pit type toilet riser by Romtec Engineering 18" high, white cross linked polyethylene with heavy duty seat.
10. Solatube 160 DS 10" skylight in each restroom.

2.03 FINISHES

- A. Interior of Building: Smooth form finish on all interior panel surfaces.
- B. Exterior of Building shall be form lined finished in a pattern selected from the Lake County Building Finish Options page and noted on the drawings.
- C. Paint: 1 coat of Loxon primer and two coats of Duracraft paint in owner's choice of exterior color. Inside walls to be painted in white, floor to be painted in Sherwin Williams HC Silver Gray # 124.

PART 3 – EXECUTION

3.01 SITE PREPARATION REQUIREMENTS

A. Excavation and Elevation

1. Comply with all applicable OSHA Standards for excavation.
2. The double vault toilet requires a hole that is 16ft wide and 16ft long as measured at the bottom. Depth should be 4'-9" below desired finished floor elevation.
3. Finish floor elevation will be 4-6 inches above natural grade measured at the front (entrance) of the exterior slab unless otherwise approved by the customer. The customer may specify a finish floor elevation for buildings at some sites. The contractor will install buildings at these sites with the floor elevation within ± 0.05 feet of the specified floor elevation. It is very important that the installation provides drainage away from the structure.

B. Bedding and Compaction

1. Compact the natural ground at the bottom of the vault excavation with a minimum of three passes with a whacker-type mechanical compactor or equivalent approved by the customer.
2. Install sand or aggregate bedding material for leveling course. Compact leveling course with one pass with a whacker-type mechanical tamper or equivalent approved by the customer. Grade leveling course so there will be no high spots in the middle of the vault bottom. Compact with a second pass with a whacker or approved equivalent tamper.
3. Set vault in place. Backfill around structure. Use excavation material for backfill except that rocks larger than six inches in maximum dimensions shall not be placed within six inches of the exterior vault walls.
4. Contractor or Manufacturer to haul off excess dirt from excavation for sub-base and sidewalk.

3.02 ACCESS

The contractor must provide for a level, unobstructed area large enough for a 100 ton 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 obstructions may be within 75' radius of center of pad. Firm roadbed with turns that allow 65' lowbed tractor-trailer must be provided directly to site. No building shall be placed closer than 2'-0" to an existing structure.

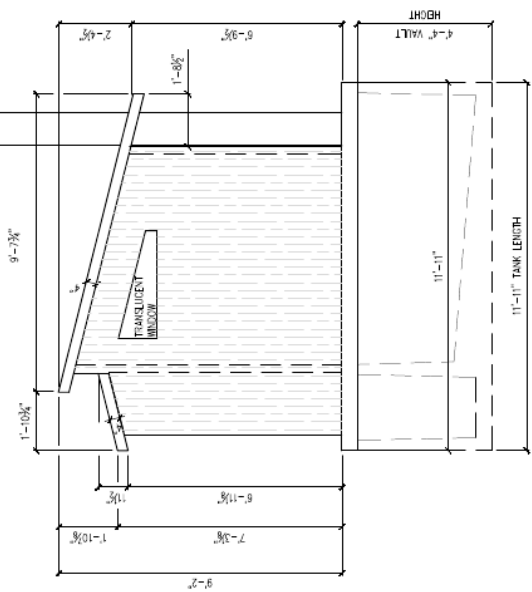
BLUE RIDGE SINGLE DRY RESTROOM ITEM #4



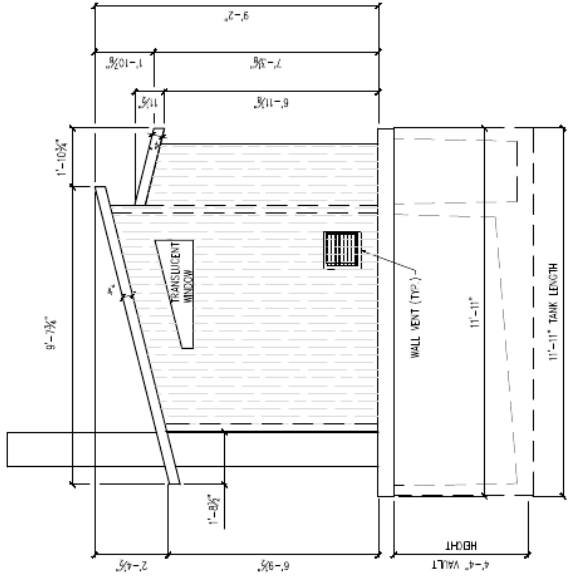
DATE	DESCRIPTION	INI.	REV

PROJECT: 7'-0" x 11'-11" x 9'-7" E49-SET
 CITY STATE
 CONTRACTOR/CONTRACTOR

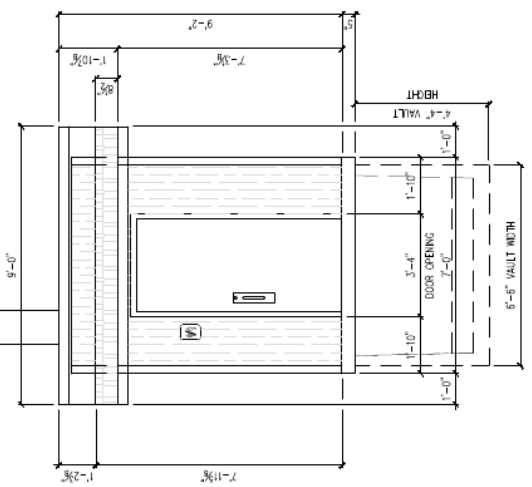
BUILDING LAYOUT
JOB #
DRAWN BY
CHECK BY
ISSUE DATE
ISSUE DATE
SHEET
LAYOUT



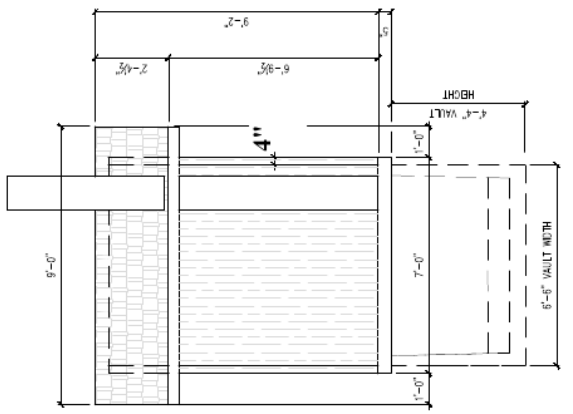
RIGHT ELEVATION



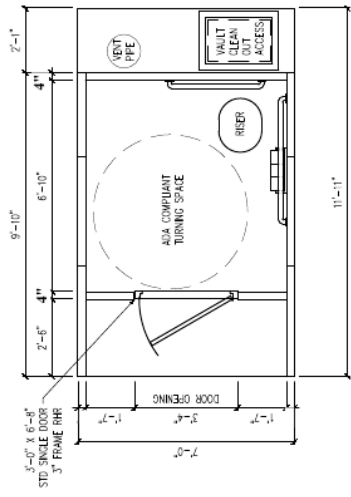
LEFT ELEVATION



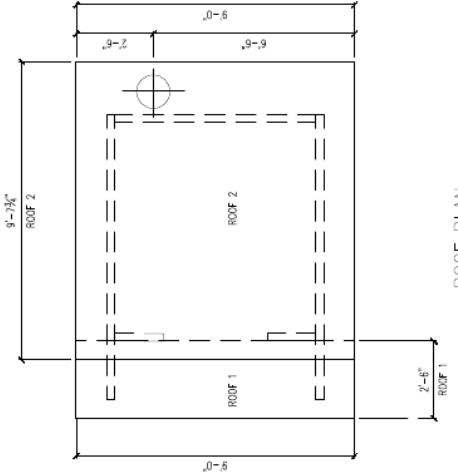
FRONT ELEVATION



BACK ELEVATION



FLOOR PLAN



ROOF PLAN

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY
BUILDING WEIGHT IS APPROX 32,369 TANK WEIGHS 17,803 LBS

- GENERAL NOTES:
 1. ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOUVERS, ETC. MUST BE SIZED AND LOCATED BY OWNER ON THIS DRAWING (OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED IF THERE ARE INTERFERENCES OR REINFORCING)
 2. ALL VENTS ARE FROM EXTERIOR.
 3. A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION

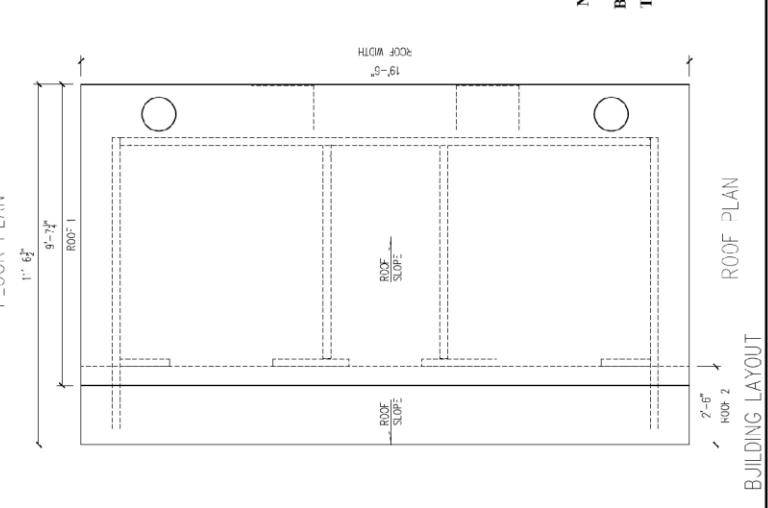
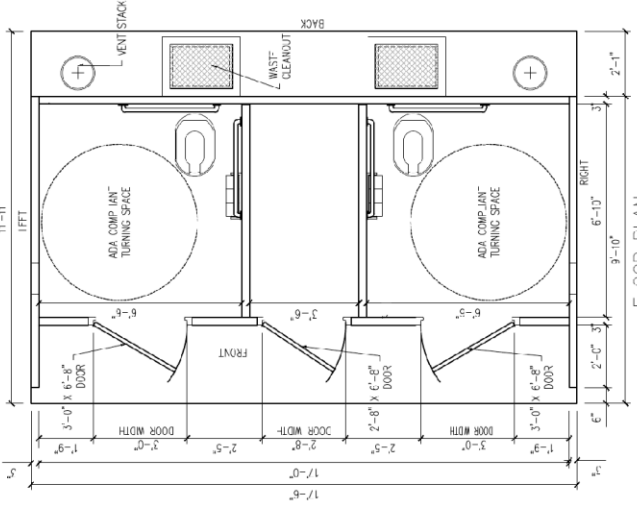
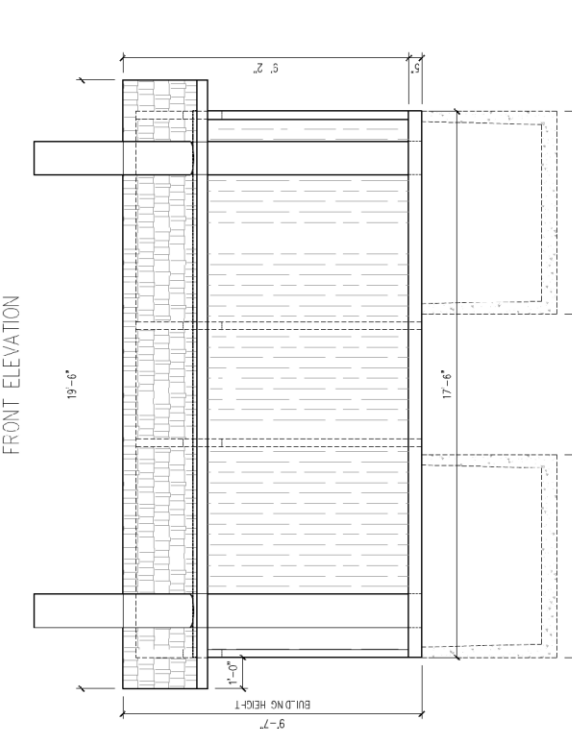
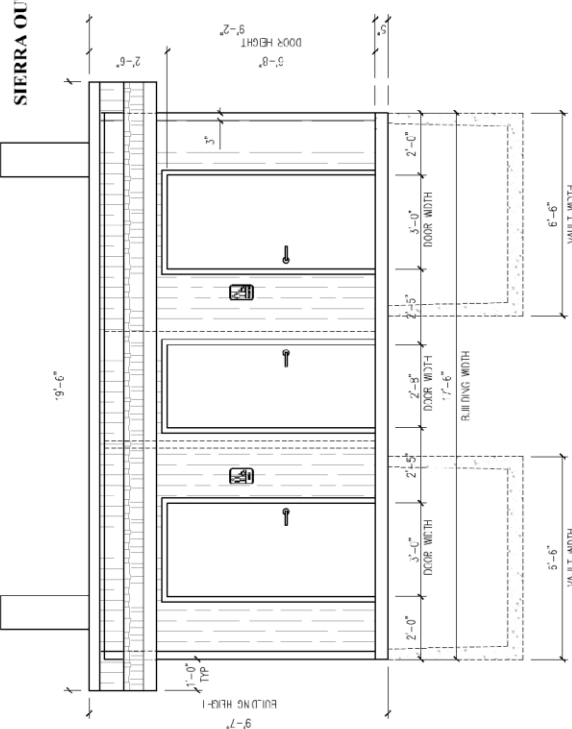
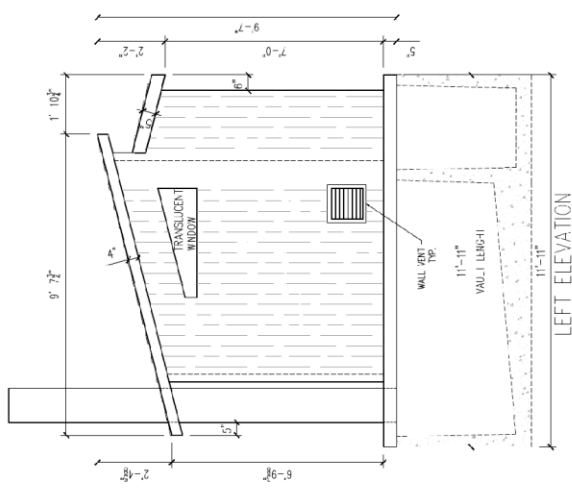
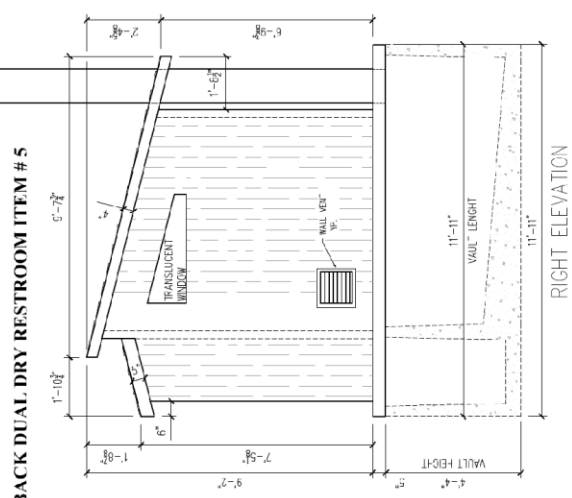
MESSAGE CENTER
BUILDING STAIN
DOOR COLOR
CUSTOMER APPROVAL
APPROVED BY:
DATE

BUILDING LAYOUT

NO.	DATE	DESCRIPTION	BY	CHKD	APP'D

PROJECT:	11'-1" x 17'-6" x 9'-7"
RESTROOM BUILDING	EAS-SET SIERRA VAULT
CONTRACTOR:	CONTRACTOR

BUILDING LAYOUT	
JOB #	
DRAWN BY	
CHECK BY	
ISSUE DATE	07.08.14
SHEET	
LAYOUT	



MESSAGE CENTER	
BUILDING FINISH	
BUILDING STAIN	
DOOR COLOR	
BUILDING WEIGHT	
CUSTOMER APPROVAL	
APPROVED BY:	
DATE:	

GENERAL NOTES:
 1. ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOADERS, ETC. MUST BE SIZED AND LOCATED BY BAYER ON THIS DRAWING (OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED IF THEY INTERFERE WITH CONNECTIONS OR REINFORCING)
 2. ALL VENTS ARE FROM EXTERIOR.
 3. ALL DIMENSIONS RETURNED BY BAYER BUILDING CAN BE RELEASED FOR PRODUCTION

NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE
 EASI-BRICK
 BARBOARD
 BROOM
 OTHER: _____

NOT FOR CONSTRUCTION DIMENSIONS ARE FOR REFERENCE ONLY
BUILDING WEIGHTS APPROX. 48,500
TANKS WEIGHT 35,606

SECTION 4

Precast Concrete Plumbed Restrooms

Specifications for the Precast Concrete Plumbed Restroom

Drawing 6: Logan Single Plumbed Restroom

Drawing 7: Carson Double Plumbed Restroom

Drawing 8: Sierra Outback Double Plumbed Restroom

Drawing 9: Northlake Triple Plumbed Restroom

Drawing 10: The Volusia 6 stall Plumbed Restroom

Drawing 11: 20' x 24' x 8'h Concession with Four Stall Restroom

Drawing 12: 24' x 30' x 8'h Concession with Eight Stall Restroom

PRECAST CONCRETE PLUMBED RESTROOM

SPECIFICATION SHEET

PART 1 – GENERAL

1.01 SUMMARY

Contractor or manufacturer to furnish a turn-key precast concrete plumbed restroom to be brought to the site in assembled modules or site assembled depending on size and set upon a level and compacted granular rock sub-base with up to a 100 ton crane, all included in the bid price. All site clearing and rough grading to within 6 inches of level are done by owner, excavation for restroom sub-base to be done by contractor or manufacturer. To be an EasiSet/EasiSpan Building as manufactured by Leesburg Concrete Company Incorporated. Contractor or Manufacturer will pull all permits and connect to utilities, if any, that are stubbed no more than 25' from the desired install location; utilities located further than 25' will be individually negotiated.

1.02 QUALITY ASSURANCE

- A. Florida DBPR Insignia required, Section 553, Part I F.S.
- B. ACI-318-08, "Building Code Requirements for Reinforced Concrete". Concrete Reinforcing Institute, "Manual of Standard Practice".
- C. ANSI/ASCE-7-10 "Building Code Requirement for Minimum Design Loads in Buildings and Other Structures".
- D. Florida Building Code 2014
- E. IBC 2012
- F. Concrete Reinforcing Institute, "Manual of Standard Practice".
- G. UL-752 test method level 5 for bullet resistance on concrete surfaces, certified by an independent ballistic laboratory.
- H. Fabricator must be a certified producer/member of The National Precast Concrete Association (NPCA).
- I. No alternate building designs to the pre-engineered building as produced by Leesburg Concrete will be allowed unless pre-approved by the owner 10 days prior to the bid date.

1.03 DESIGN REQUIREMENTS

A. Design Loads

- 1. Seismic Design Category 'C', Importance Factor 1
 - 2. Standard Live Roof Load – 60 PSF
 - 3. Standard Floor Load – 250 PSF (if precast floor provided by building manufacturer)
 - 4. Standard Wind Loading – ASCE 7-10 conforming to geographic area.
 - 5. Designed to meet the requirements of the Americans With Disabilities Act Requirements and Uniform Federal Accessibility Standard including as of the date of these specifications.
- B. Roof: To be post tensioned. The roof shall extend 4" beyond the wall panel and have a turndown design which extends ½" below the top edge of the wall panels to prevent water migration into the building along the top of wall panels.

- C. Floor – The floor is provided and the walls sit on top of the floor with the floor extending to the edge of the walls for additional strength. Floor should be a minimum of 5 inches thick and have a looped post tension cable. Floor will have a 1/2" recessed keyway around the perimeter to accept the walls so as to form a physical water barrier.

1.04 SUBMITTALS

- A. Drawings and calculations sealed by a professional engineer, licensed to practice in the state where the project is located, shall be submitted for approval.
- B. Manufacturer to provide cut sheets on all attached fixtures.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Concrete: Steel-reinforced, 5000 PSI minimum 28-day compressive strength.
- B. Reinforcing Steel: ASTM A615, grade 60 unless otherwise specified.
- C. Post-tensioning Strand: Roof and floor shall be post-tensioned with a 41K polystrand CP50, .50", 270 KSI, 7-wire strand post tension cable, enclosed within a greased plastic sheath (ASTM A416).
- D. Caulking: All joints between panels shall be caulked on the exterior and interior surface of the joints. Caulking shall be SIKAFLEX-1A elastic sealant or equal. Exterior caulk joint to be 3/8" x 3/8" square so that sides of joint are parallel for correct caulk adhesion.
- E. Vents: Two screened aluminum vents to be cast in rear wall. Vents shall be SUNVENT 8"x16" with bug screen, or equal
- F. Panel Connections: All panel connections shall be welded together utilizing imbedded weld plates with Nelson anchors. Assembly shall be welded by a certified welder.

2.02 ACCESSORIES

1. Doors and Frames: 16 gauge galvanized 3068 HM door and frame, 4 7/8" throat, Schlage ND series heavy duty grade 1 cylindrical lockset and LCN series 1 Closer surface mounted. All doors and frames are in accordance with NOA 10-0209.07
2. ADA Stainless Steel Mirror
3. Toilet tissue dispenser Bobrick model # BOB-2740
4. Grab bar 36" Bobrick model # B 5806.99x36.
5. Grab bar 42" Bobrick model # B 5806.99x42.
6. Soap Dispenser by Bobrick model # BOB B-2112
7. Wall mounted trash can by Bobrick model # BOB-279
8. Door signs by Hillman with Braille, Men, Women, Family
9. Stainless steel Acorn Engineering wall mounted rectangular lavatory sink 20" x 22" model # 1953-LC-09 without valves.
10. Chicago Faucet model number 857-E12-665PSHABCP.
11. Stainless steel Acorn Engineering wall mounted rear discharge toilet model # 1675
12. Sloan Royal Flushometer manual flush valve.
13. Solatube 160 DS 10" skylight in each restroom.

2.03 FINISHES

- A. Interior of Building: Smooth form finish on all interior panel surfaces.
- B. Exterior of Building shall be form lined finished in a pattern selected from the Lake County Building Finish Options page and noted on the drawings.

- C. Paint: 1 coat of Loxon primer and two coats of Duracraft paint in owner's choice of exterior color. Inside walls to be painted in white, floor to be painted in Sherwin Williams HC Silver Gray # 124.

PART 3 – EXECUTION

3.01 SITE PREPARATION

- A. Contractor or Manufacturer to bring all necessary utilities to a determined centralized point so as to align with an opening in the chase floor as called out in the manufacturer's provided plans.
- B. Building shall bear fully on a bed of crushed 3/8" stone base that is at least one foot larger in all directions than the footprint of the building.
- C. Stone shall be a minimum of 4" thick or down to firm sub grade. 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 after the building is set.
- D. 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

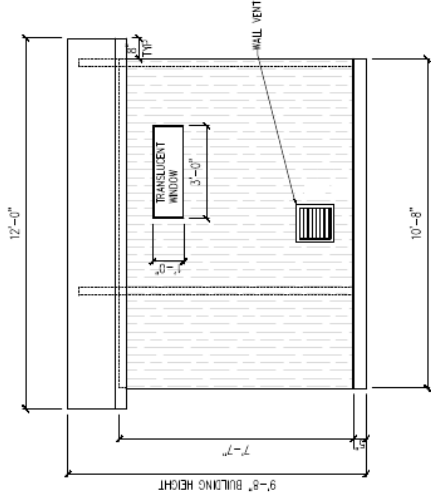
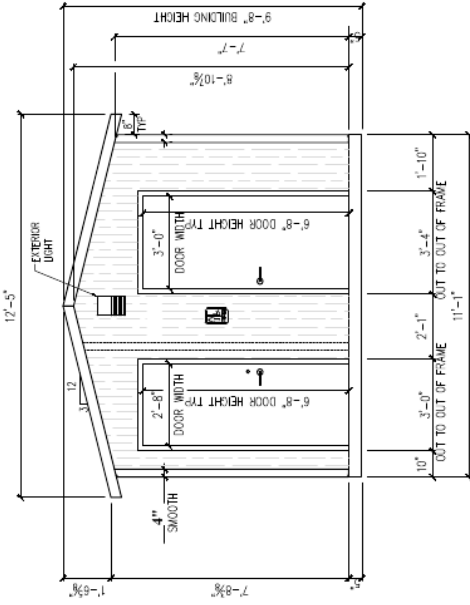
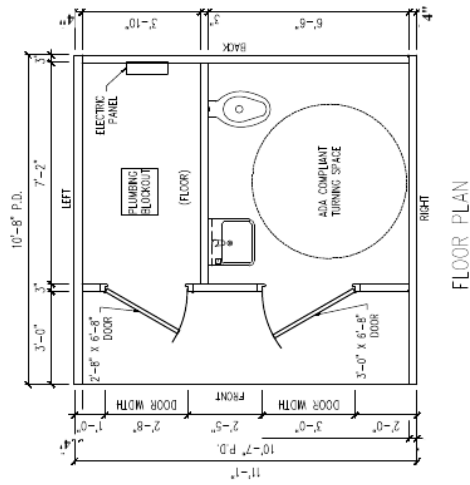
If building is placed on pavement or concrete slab, substrate below pavement or slab must have a vertical soil capacity of 1,500 pounds per square foot. Place stone or sand to 1" above highest point of area where building will be placed and at least 1'-0" wide all around the building footprint. Retain stone or sand with a perimeter form to prevent the material from washing out.

- E. Provide positive drainage for the fill, pad, or slab as required.
- F. Contractor or Manufacturer to haul off excess dirt from excavation for sub-base and sidewalk.

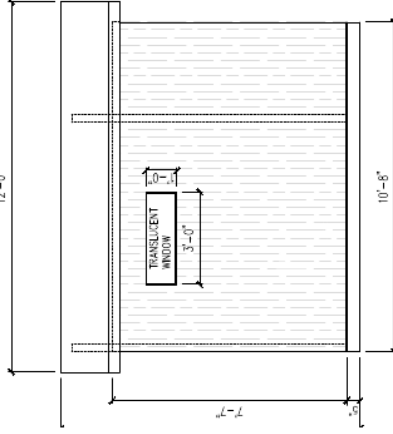
3.02 ACCESS

The contractor must provide for a level, unobstructed area large enough for a 100 ton 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 obstructions may be within 75' radius of center of pad. Firm roadbed with turns that allow 65' lowbed tractor-trailer must be provided directly to site. No building shall be placed closer than 2'-0" to an existing structure.

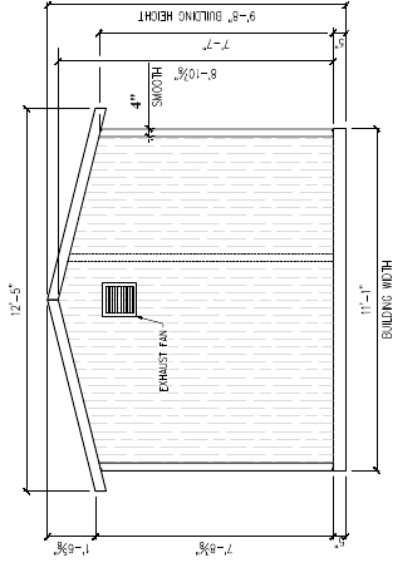
LOGAN SINGLE PLUMBED RESTROOM ITEM #6



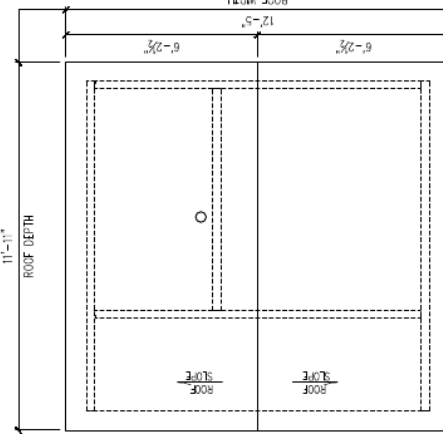
RIGHT ELEVATION



LEFT ELEVATION



REAR ELEVATION



ROOF PLAN

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY

BUILDING WEIGHT IS APPROX. 33,000 lbs.

NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE

- EASI-BRICK
 - BARNBOARD
 - BROOM
 - OTHER: _____
- GENERAL NOTES:
- ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOUVERS, ETC. MUST BE SIZED AND LOCATED BY BONEY ON THIS DRAWING. (OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED IF ANY CHANGES OR REVISIONS TO THIS DRAWING ARE MADE.)
 - ALL VENTS ARE FROM EXTERIOR.
 - A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

MESSAGE CENTER	
BUILDING FINISH	
BUILDING STAIN	
DOOR COLOR	
BUILDING WEIGHT	
CUSTOMER APPROVAL	
APPROVED BY:	DATE

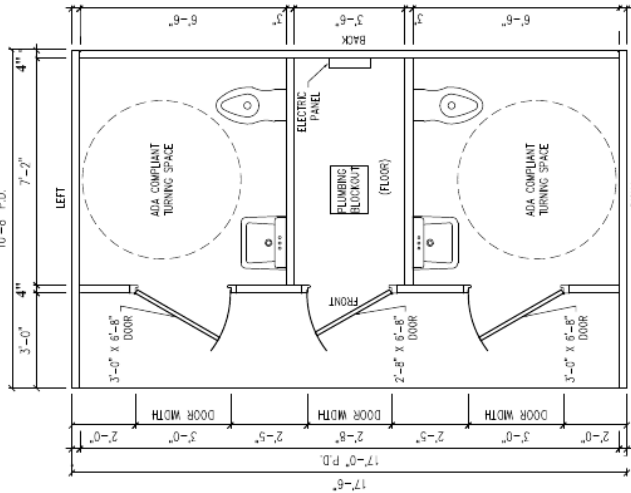
DATE	DESCRIPTION	REV

PROJECT:	10'-8" x 11'-1" x 9'-8" EAST-SET LOGAN FLUSH RESTROOM BUILDING
CONTRACTOR:	CONTRACTOR

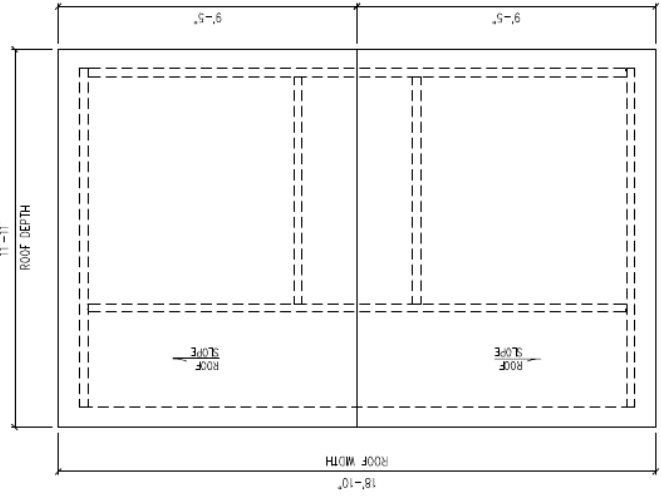
BUILDING LAYOUT
JOB #
DRAWN BY
CHECK BY
ISSUE DATE
SHEET
LAYOUT



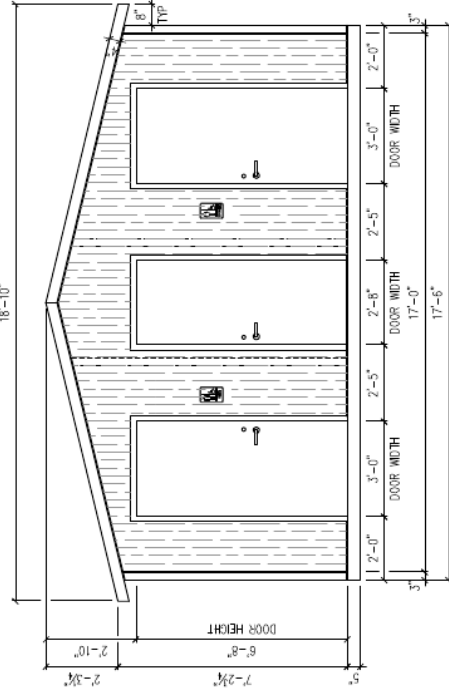
CARSON DOUBLE PLUMBED RESTROOM ITEM # 7



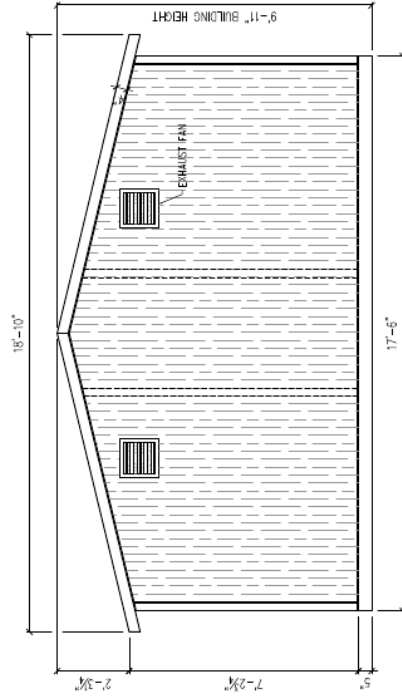
FLOOR PLAN



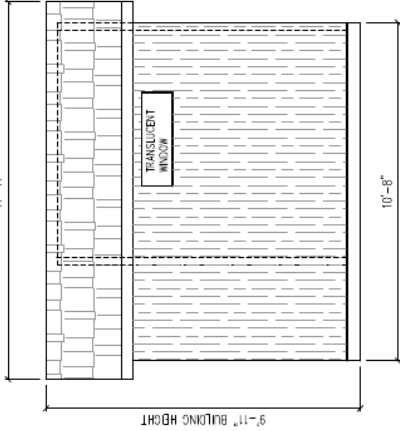
ROOF PLAN



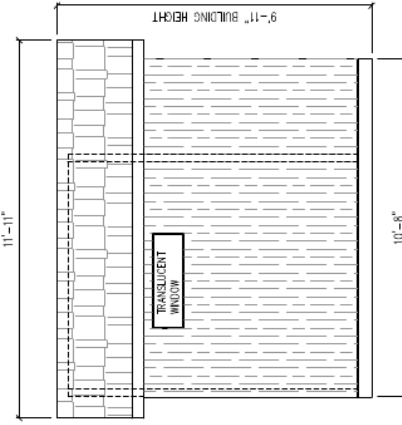
FRONT ELEVATION



BACK ELEVATION



RIGHT ELEVATION



LEFT ELEVATION

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY

NOTE: FINISH OPTIONAL VARIOUS FINISHES ARE AVAILABLE

- EASI-BRICK
- BARNBOARD
- BROOM
- OTHER: _____

- GENERAL NOTES:
- ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, DOWNS, ETC. MUST BE SIZED AND LOCATED BY OWNER OR HIS DRAWING CONTRACTOR. ALL OPENINGS MUST BE SIZED AND SLOTTED IF THEY INTERFERE WITH CONNECTIONS OR REINFORCING.
 - ALL MEAS. ARE FROM EXTERIOR.
 - A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

MESSAGE CENTER	
BUILDING FINISH	-
BUILDING STAIN	-
DOOR COLOR	-
BUILDING WEIGHT	-
CUSTOMER APPROVAL	
APPROVED BY:	DATE:

DATE	DESCRIPTION	IN	REV

PROJECT: 10'-8" x 17'-6" x 9'-11"
RESTROOM BUILDING
EASI-SET CARSON FLUSH
CONTRACTOR: CONTRACTOR

BUILDING LAYOUT
JOB #
DRAWN BY
CHECK BY
ISSUE DATE
SHEET
LAYOUT

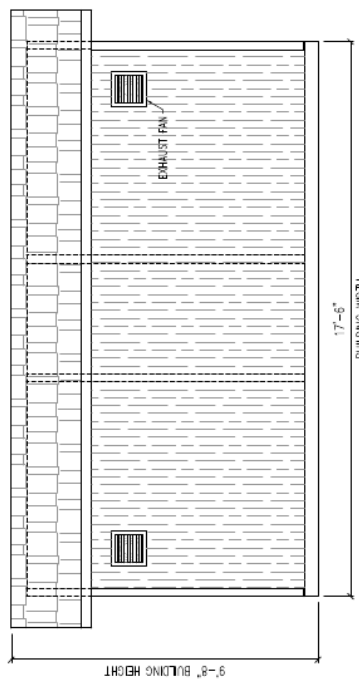
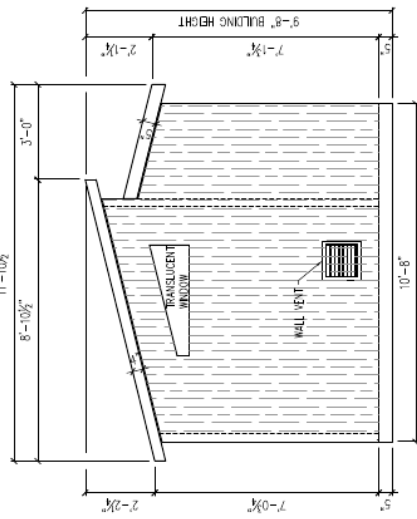
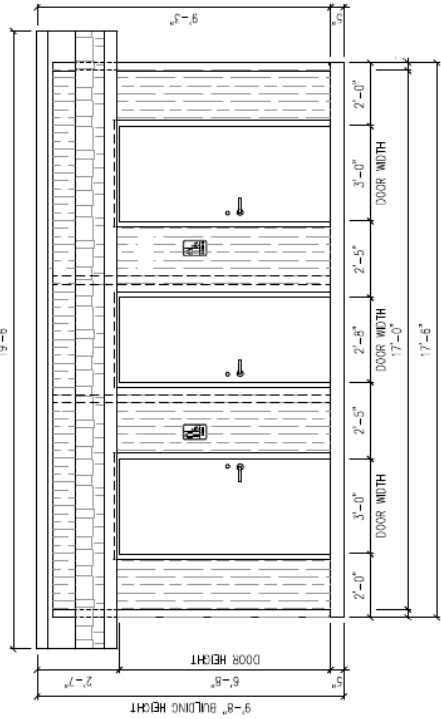
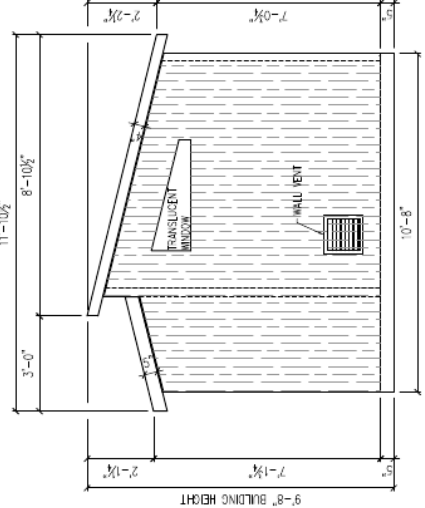
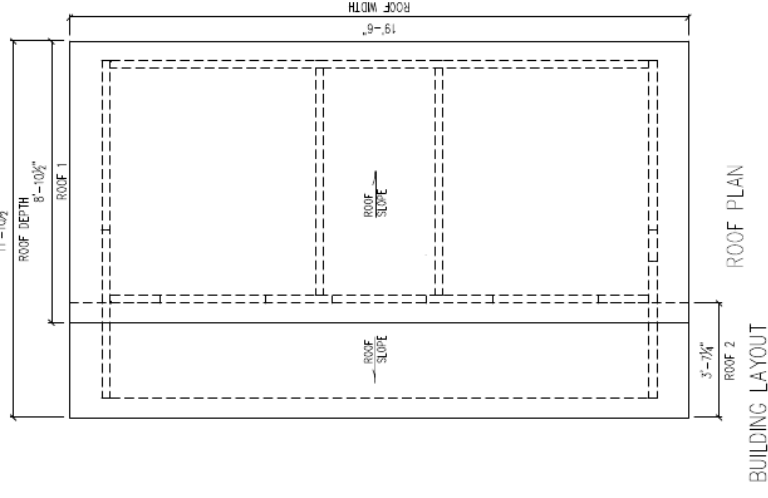
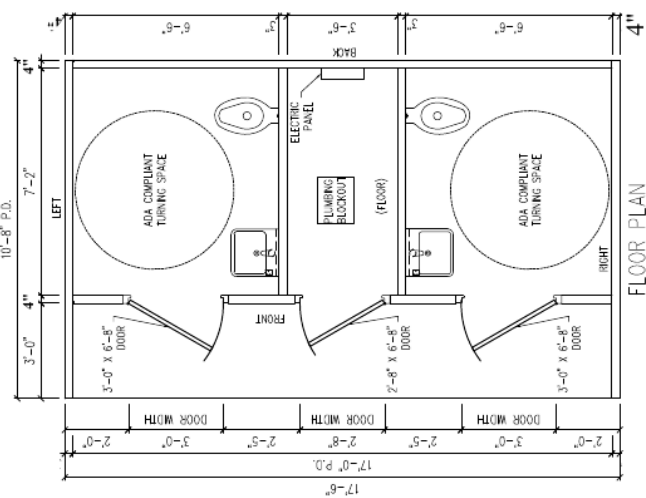
SIERRA OUTBACK DUAL WET RESTROOM ITEM # 8



DATE	DESCRIPTION	INITIALS	REV

PROJECT: 10'-8" x 17'-6" x 9'-8"
 RESTROOM BUILDING
 EASY-SET SIERRA FLUSH
 CONTRACTOR: CONTRACTOR

BUILDING LAYOUT
JOB #
DRAWN BY
CHECK BY
ISSUE DATE
DATE
SHEET
LAYOUT



NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY
BUILDING WEIGHT IS APPROX 60,841

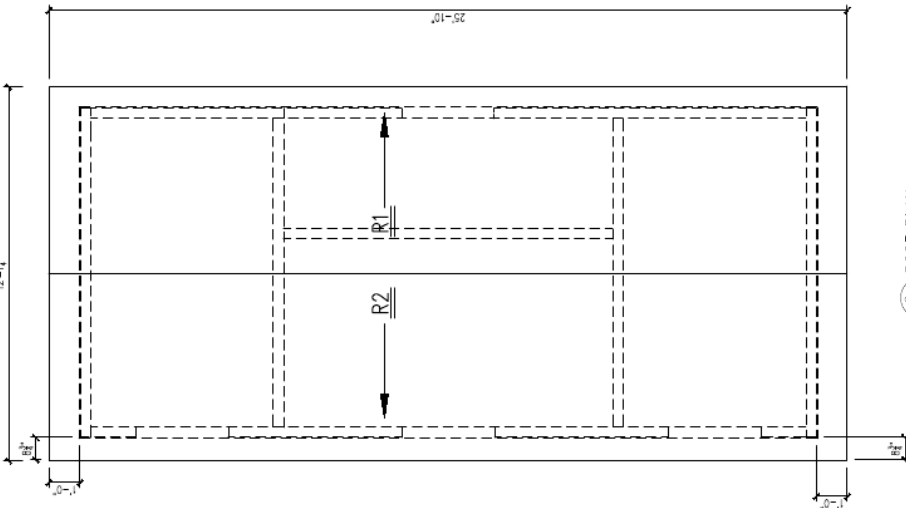
NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE

- EASY-BRICK
- BARNBOARD
- BROOM
- OTHER: _____

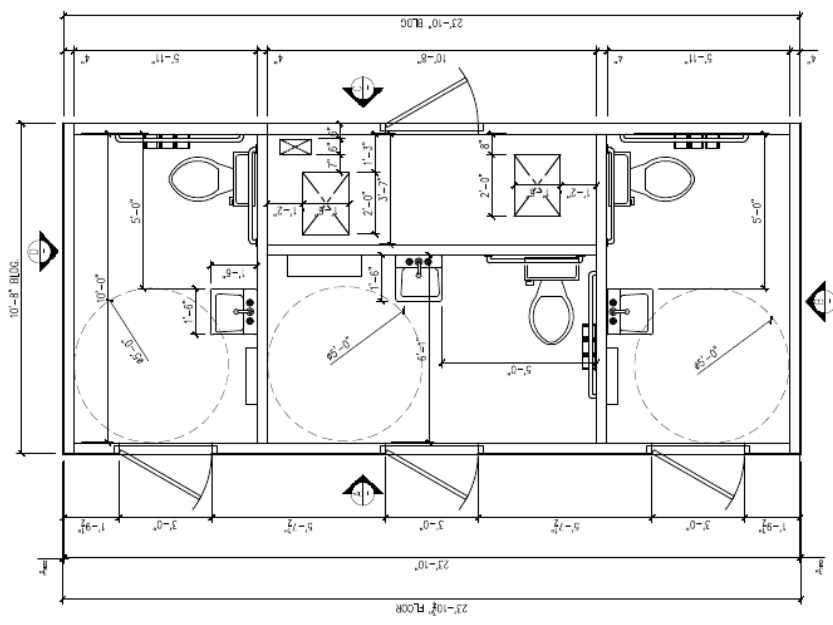
- GENERAL NOTES:
- ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOUVERS, ETC. MUST BE SIZED AND LOCATED BY OWNER ON THIS DRAWING. (OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED IF THEY INTERFERE WITH CONNECTIONS OR REINFORCING)
 - ALL ELECTRICAL CONNECTIONS MUST BE MADE BY A LICENSED ELECTRICIAN.
 - A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

MESSAGE CENTER	
BUILDING FINISH	
BUILDING STAIN	
DOOR COLOR	
BUILDING WEIGHT	
CUSTOMER APPROVAL	
APPROVED BY:	
DATE:	

NORTHLAKE TRIPLE PLUMBED RESTROOM ITEM # 9 p.1 OF 2



2 ROOF PLAN



1 FLOOR PLAN

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY

BUILDING WEIGHT IS APPROX 74,590 lbs

NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE

- EASI-BRICK
- BARNBOARD
- BROOM
- OTHER: _____

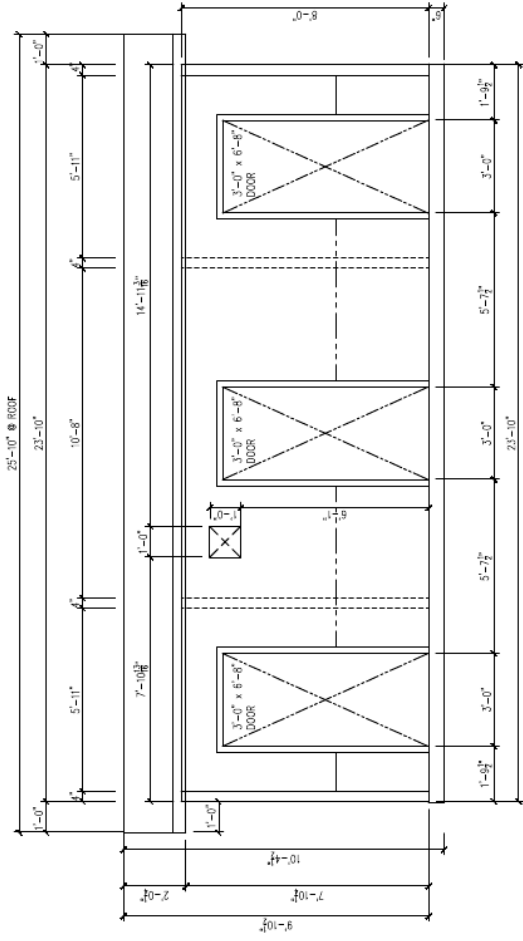
GENERAL NOTES:
 1. ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOUVERS, AND VENTILATION SHALL BE MADE TO THE BUILDING EXTERIOR. LOCATIONS SHALL NOT BE ALTERED IF THEY INTERFERE WITH CONNECTIONS OR REINFORCING.
 2. ALL VIEWS ARE FROM EXTERIOR.
 3. A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

MESSAGE CENTER	
BUILDING FINISH	_____
BUILDING STAIN	_____
DOOR COLOR	_____
BUILDING WEIGHT	_____
CUSTOMER APPROVAL	
APPROVED BY:	_____
DATE:	_____

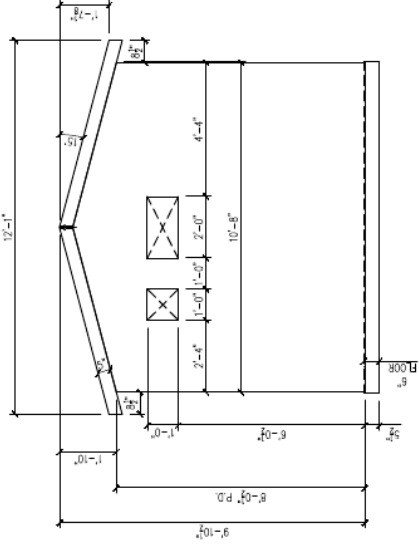
PROJECT:	10'-8" x 23'-10"
CONTRACTOR:	EASI-SET FLUSH RESTROOM
CONTRACTOR:	CONTRACTOR
DATE:	_____
DESCRIPTION:	_____
REV:	_____
INI:	_____
REV:	_____

BUILDING LAYOUT	_____
JOB #	_____
DRAWN BY	_____
CHECK BY	_____
ISSUE DATE	03-22-2015
SHEET	_____
LAYOUT	_____

NORTHLAKE TRIPLE PLUMBED RESTROOM ITEM #9 p.2 of 2

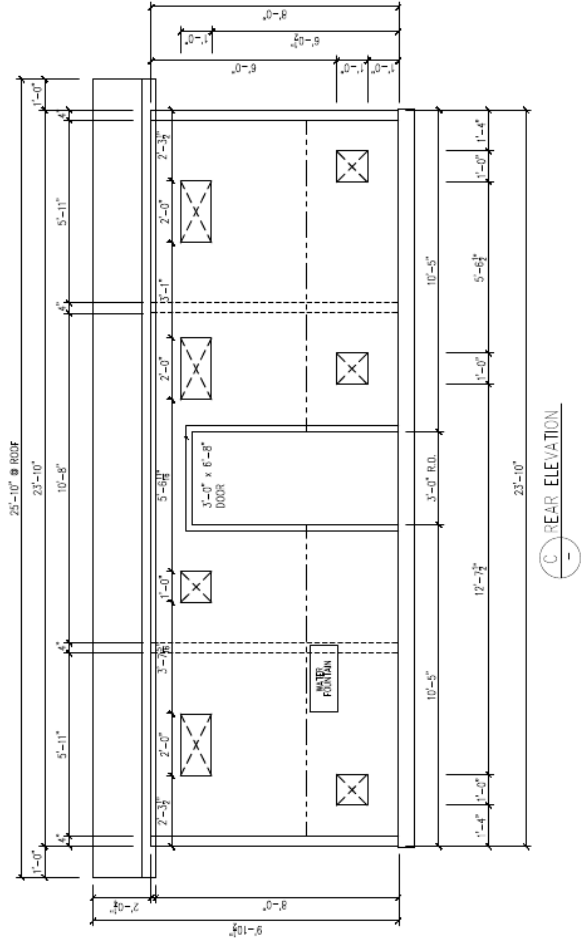


A FRONT ELEVATION

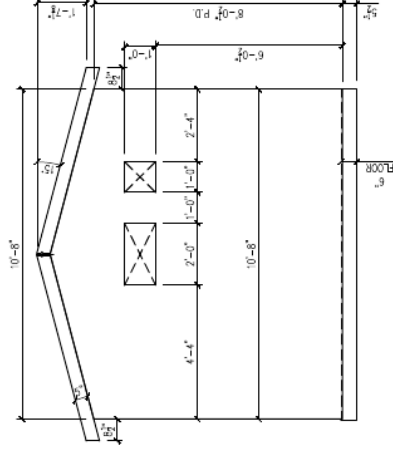


B RIGHT ELEVATION

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY



C REAR ELEVATION



D LEFT ELEVATION

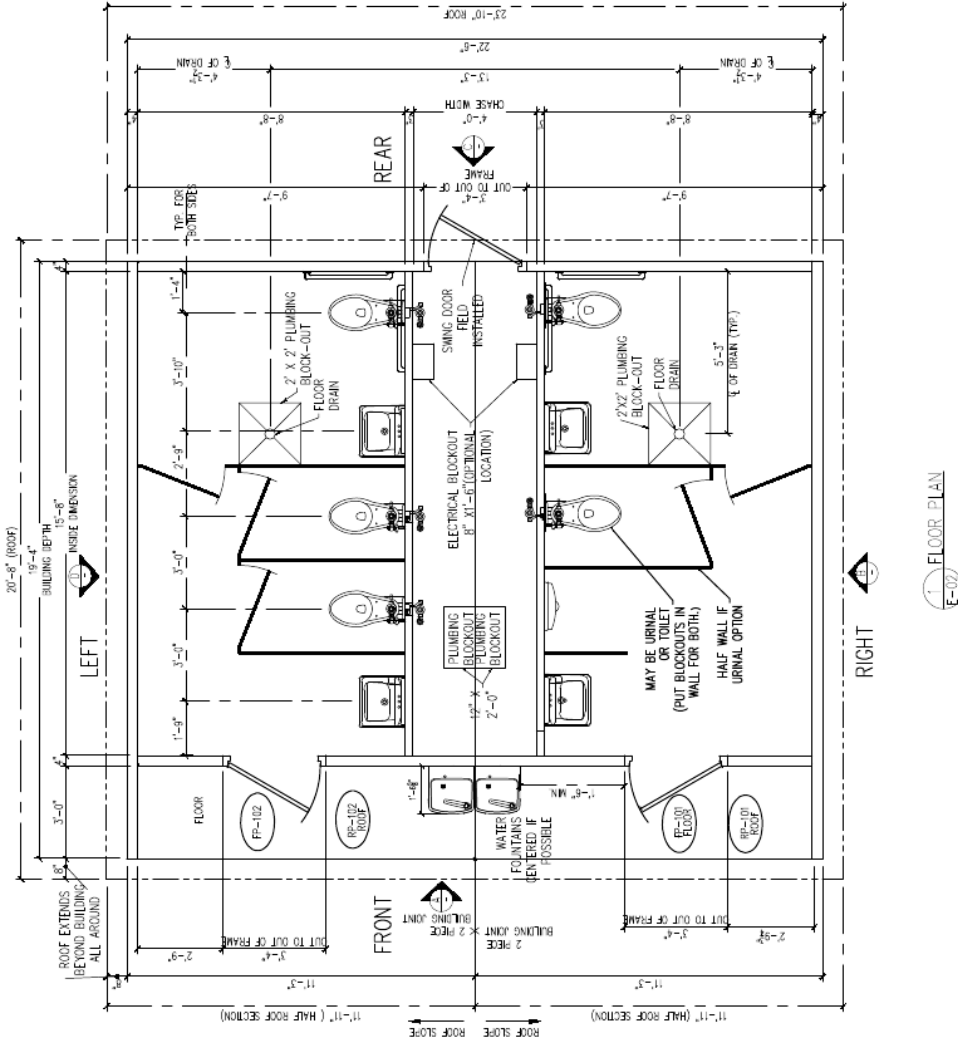


DATE	DESCRIPTION	INI.	REV.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

PROJECT: 10'-8" x 23'-10" EASY-SET FLUSH RESTROOM	CONTRACTOR: CONTRACTOR
---	------------------------

BUILDING ELEVATIONS	#
DRAWN BY	
CHECK BY	
ISSUE DATE	03/23/15
SHEET	
ELEVATIONS	

THE VOLUSIA 6 STALL PLUMBED RESTROOM ITEM #10 p. 1 of 2



NOT FOR CONSTRUCTION DIMENSIONS ARE FOR REFERENCE ONLY

BUILDING WEIGHS APPROX 108,000 lbs

NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE

- EASI-BRICK
- BARNBOARD
- BROOM
- OTHER: _____

- GENERAL NOTES:
- ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOUVERS, PIPING, ETC. MUST BE MADE PRIOR TO SETTING THE FOUNDATION. FINISHES, LOCATIONS, AND SIZES MUST BE LABELED IF THEY INTERFERE WITH CONNECTIONS OR REPAIRING.
 - ALL VIEWS ARE FROM EXTERIOR.
 - A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

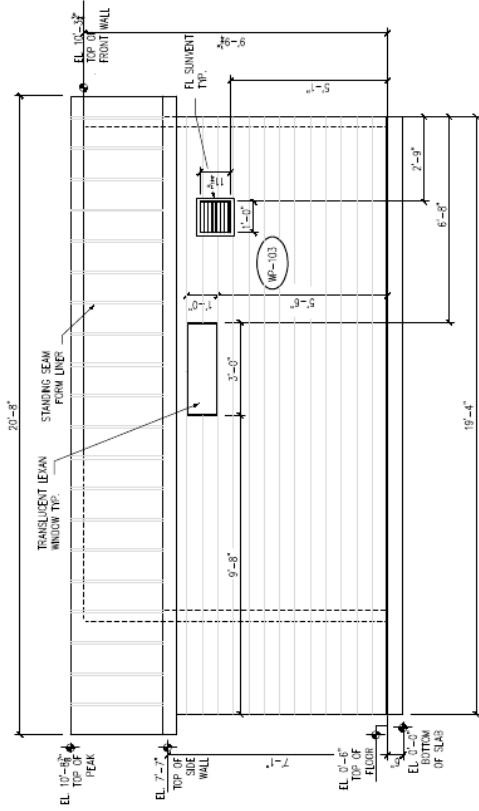
MESSAGE CENTER	
BUILDING FINISH	_____
BUILDING STAIN	_____
DOOR COLOR	_____
BUILDING WEIGHT	_____
CUSTOMER APPROVAL	_____
APPROVED BY:	_____
DATE:	_____

PROJECT:	19'-6" x 22'-6" x 7'-1"
CONTRACTOR:	EASI-SET FLUSH RESTROOM
CONTRACTOR:	CONTRACTOR
DATE	_____
DESCRIPTION	_____
INL.	_____
REV	_____

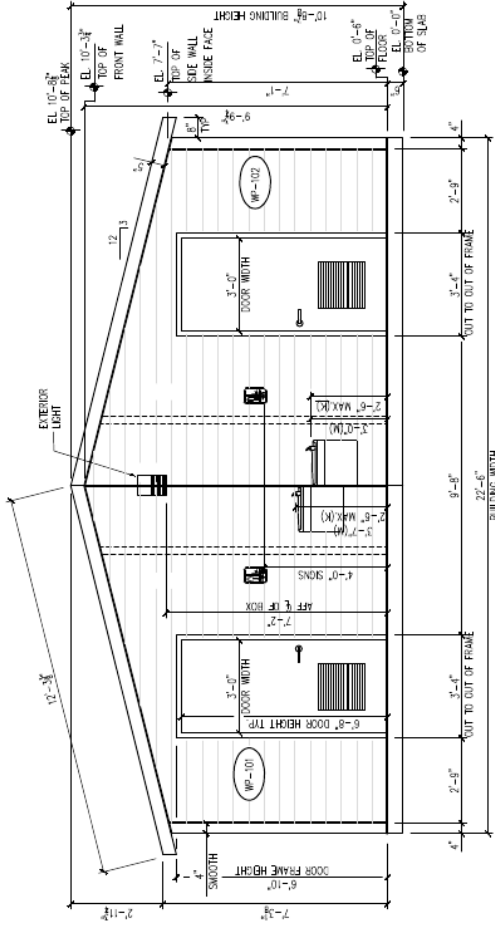
BUILDING LAYOUT	_____
4. 90'	_____
DRAWN BY	_____
CHECK BY	_____
ISSUE DATE	03/22/15
SHEET	_____
LAYOUT	_____

BUILDING LAYOUT

THE VOLUSIA 6 STALL PLUMBED RESTROOM ITEM #10 p. 2 of 2

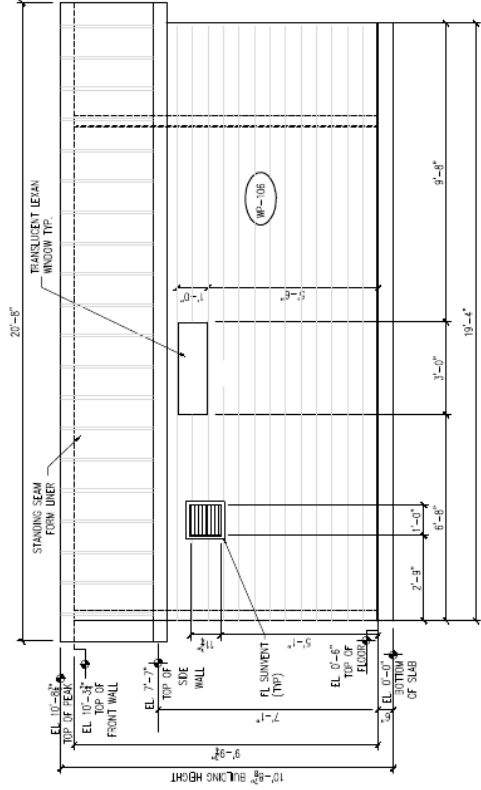


B RIGHT ELEVATION

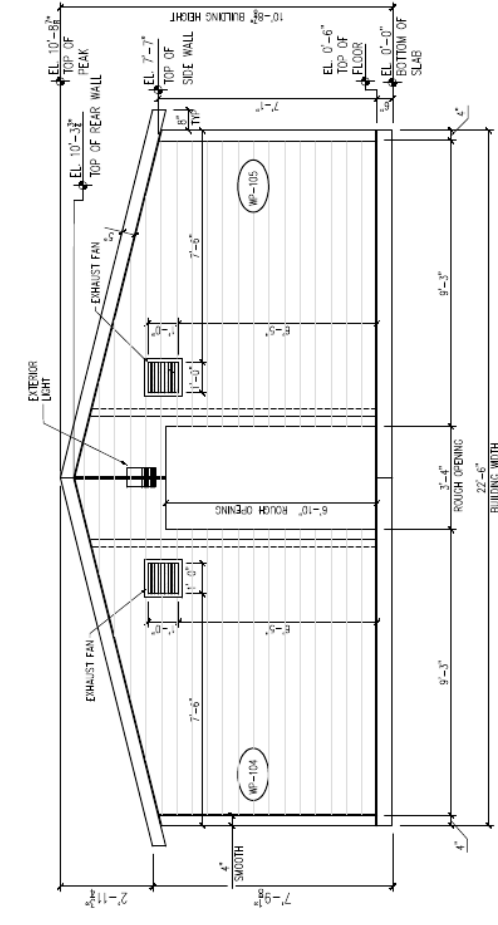


A FRONT ELEVATION

NOT FOR CONSTRUCTION DIMENSIONS ARE FOR REFERENCE ONLY



D LEFT ELEVATION



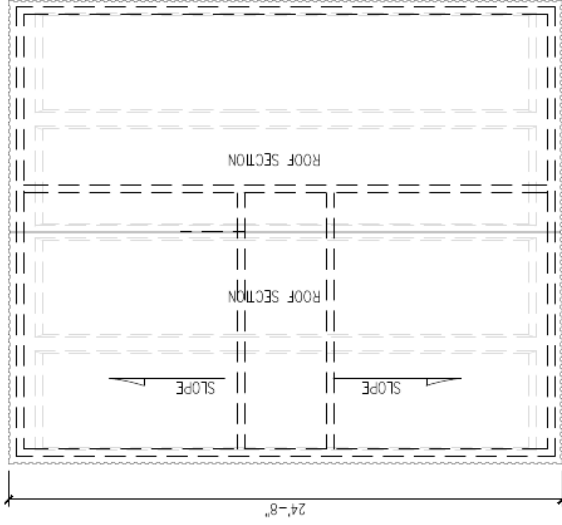
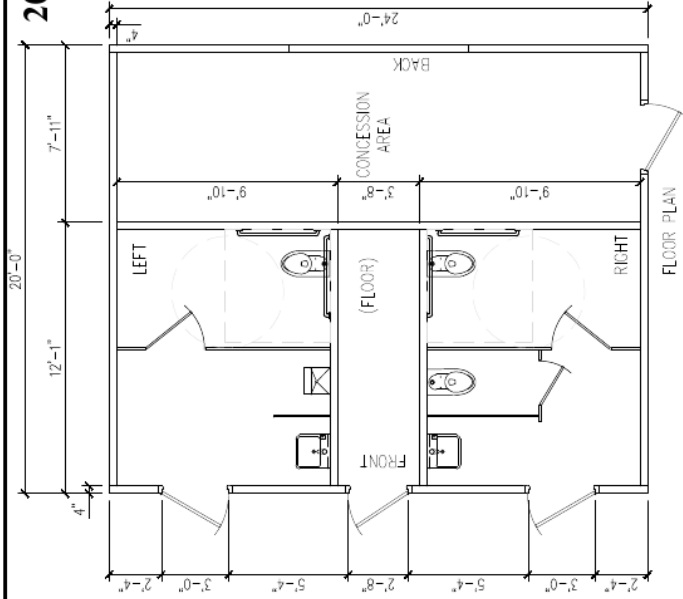
C REAR ELEVATION

DATE	DESCRIPTION	INITIALS	REV

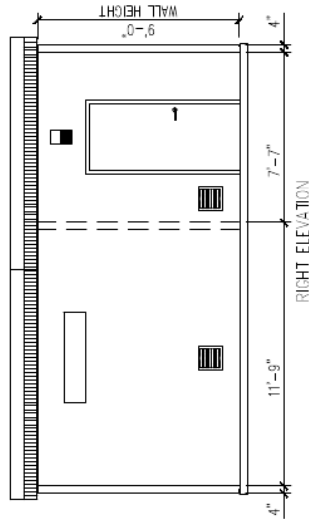
PROJECT: 19'-4" x 22'-6" x 7'-1"
 EASY-SET FLUSH RESTROOM
 CONTRACTOR: CONTRACTOR

BUILDING ELEVATIONS
JOB #
DRAWN BY
CHECK BY
ISSUE DATE
02/22/15
SHEET
ELEVATIONS

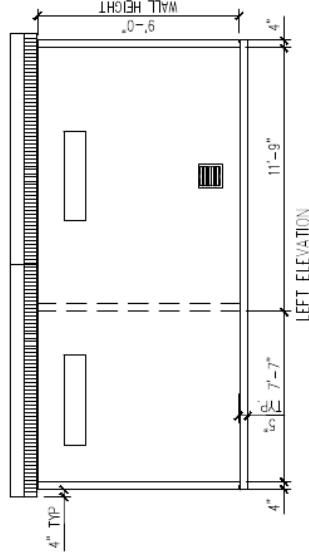
20' X 24' X 8' CONCESSION WITH 4 STALL RESTROOM ITEM # 11



NOT FOR CONSTRUCTION DIMENSIONS ARE FOR REFERENCE ONLY

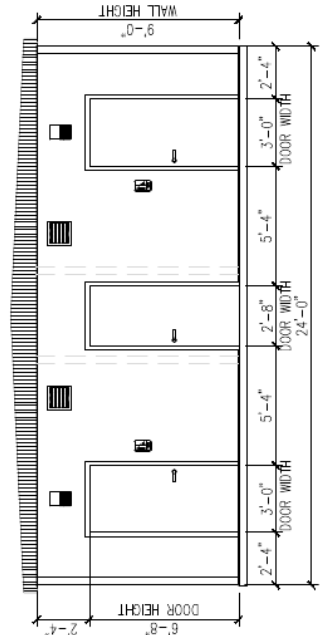


RIGHT ELEVATION

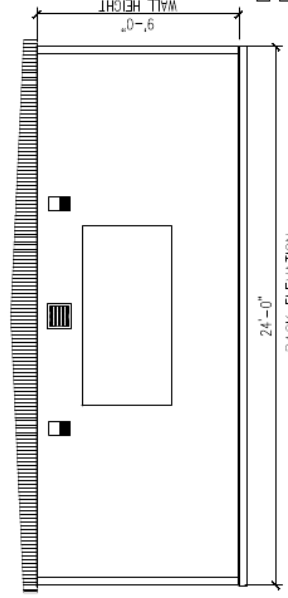


LEFT ELEVATION

BUILDING WEIGHT IS APPROX. 115, 200 lbs



FRONT ELEVATION



BACK ELEVATION

- NOTE: FINISH OPTIONAL, VARIOUS FINISHES ARE AVAILABLE
- EASH-BRICK
 - BARNBOARD
 - BROOM
 - OTHER:

- GENERAL NOTES:
- ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, DUCTS, ETC. MUST BE SIZED AND LOCATED BY OWNER ON THIS DRAWING. OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED TO ACCOMMODATE WITH CONNECTIONS OR REVISIONS.
 - ALL VIEWS ARE FROM EXTERIOR.
 - A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION.

MESSAGE CENTER

BUILDING FINISH TO BE SELECTED _____

BUILDING STAIN _____

DOOR COLOR _____

BUILDING WEIGHT _____

CUSTOMER APPROVAL _____

APPROVED BY: _____ DATE: _____

PROJECT: 24'X20'X8' EASH-SPAN	RESTROOM/CONCESSION BUILDING	CITY: STATE	CONTRACTOR: CONTRACTOR
IN. REV	DESCRIPTION	DATE	

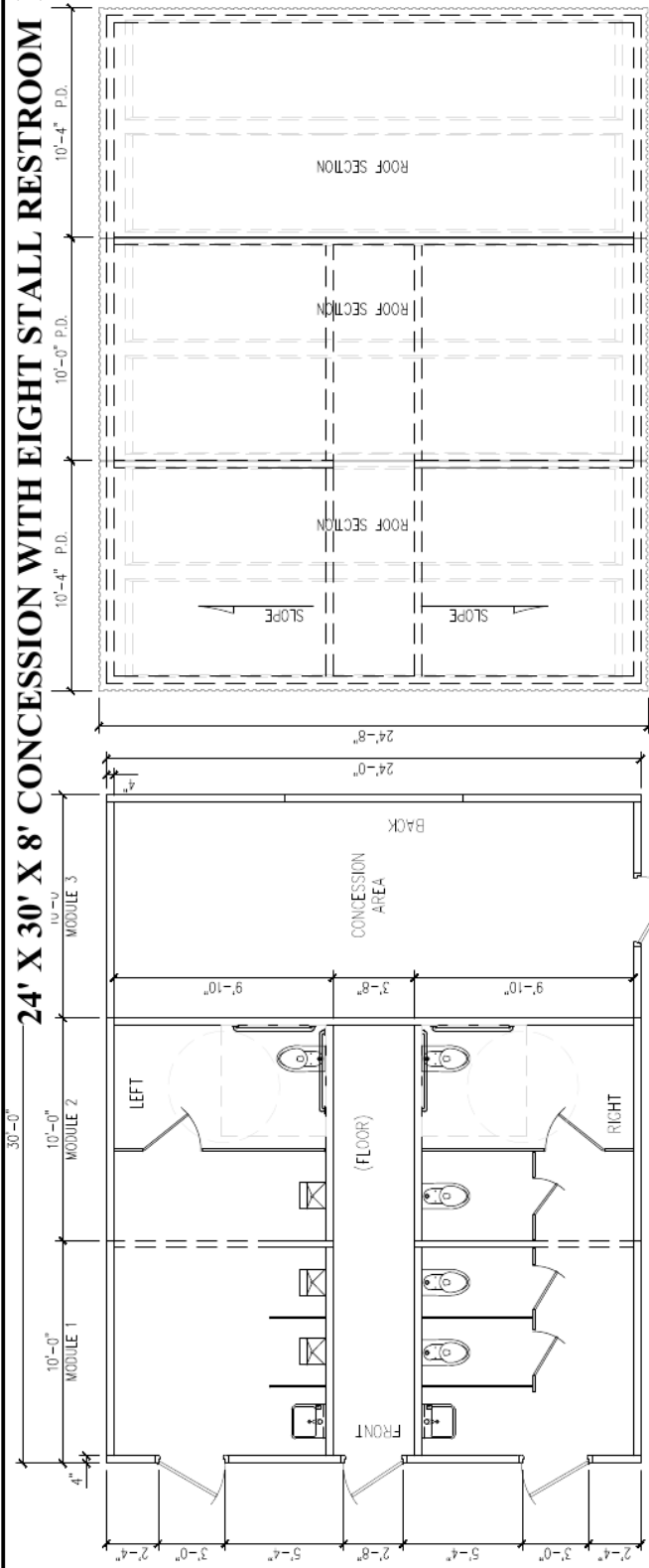
24' X 30' X 8' CONCESSION WITH EIGHT STALL RESTROOM ITEM #12



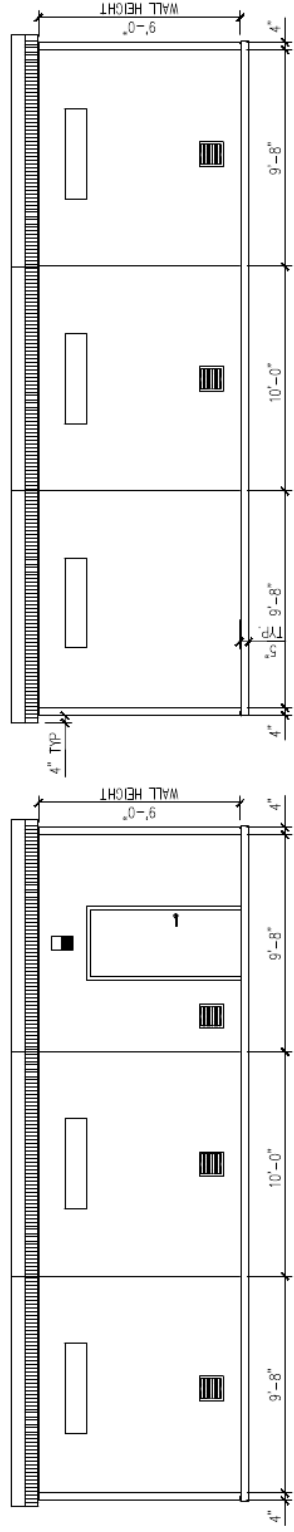
CONTRACTOR: CONTRACTOR	DATE
QTY STATE	DESCRIPTION
PROJECT: 24'X30'X8' EAS-SPAN	NI. REV

BUILDING LAYOUT
JOB #
DRAWN BY
CHECK BY
ISSUE DATE
DATE

MESSAGE CENTER	APPROVED BY:	DATE
BUILDING FINISH TO BE SELECTED		
BUILDING STAIN		
DOOR COLOR		
BUILDING WEIGHT		
CUSTOMER APPROVAL		

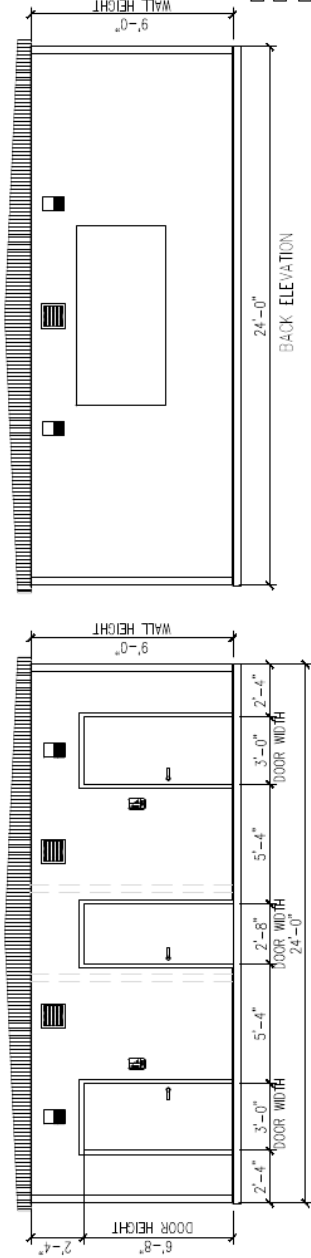


BUILDING WEIGHS APPROX 126,559 lbs



- GENERAL NOTES:**
- ALL REQUIRED OPENINGS FOR ELECTRIC, MECHANICAL, LOUVERS, ETC. MUST BE SIZED AND LOCATED BY OWNER ON THIS DRAWING (OPENING SIZES AND LOCATIONS MAY HAVE TO BE ALTERED IF THEY INTERFERE WITH CONNECTIONS OR
 - ALL WORK DONE FROM EXTERIOR
 - A SIGNED COPY MUST BE RETURNED BEFORE BUILDING CAN BE RELEASED FOR PRODUCTION

NOT FOR CONSTRUCTION DIMENSIONS FOR REFERENCE ONLY



- NOTE: FINISH OPTIONAL VARIOUS FINISHES ARE AVAILABLE**
- EAS-BRICK
 - BARNBOARD
 - BRCCM
 - OTHER:

BUILDING LAYOUT

SECTION 5

Site Assembled Precast Panelized Building

Specifications for the Site Assembled Precast Panelized Building

Drawing 13: 20' x 24' p.43

Drawing 14: 20' x 30' p.44

SITE ASSEMBLED PRECAST CONCRETE BUILDING

SPECIFICATION SHEET

PART 1 – GENERAL

1.01 SUMMARY

Contractor or Manufacturer to furnish a turn-key site assembled precast concrete building and set it upon a level and compacted granular rock sub-base with up to a 100 ton crane, all included in the bid price. All site clearing and rough grading to within 6 inches of level are done by owner, excavation for sub-base to be done by contractor or manufacturer. To be an EasiSet/EasiSpan Building as manufactured by Leesburg Concrete Company Incorporated. Contractor or Manufacturer will pull all permits and connect to utilities, if any, that are stubbed no more than 25' from the desired install location; utilities located further than 25' will be individually negotiated.

1.02 QUALITY ASSURANCE

- A. ACI-318-08, "Building Code Requirements for Reinforced Concrete". Concrete Reinforcing Institute, "Manual of Standard Practice".
- B. ANSI/ASCE-7-10 "Building Code Requirement for Minimum Design Loads in Buildings and Other Structures".
- C. Florida Building Code 2014
- D. IBC 2012
- E. Concrete Reinforcing Institute, "Manual of Standard Practice".
- F. UL-752 test method level 5 for bullet resistance on concrete surfaces, certified by an independent ballistic laboratory.
- G. Fabricator must be a certified producer/member of The National Precast Concrete Association (NPCA).
- H. No alternate building designs to the pre-engineered building as produced by Leesburg Concrete will be allowed unless pre-approved by the owner 10 days prior to the bid date.

1.03 DESIGN REQUIREMENTS

Easi-Span roof and floor sections are fabricated in 10' widths and 20 or 24 foot lengths using a tri-beam post tensioning system.

- A. Design Loads
 - 1. Seismic Design Category 'C', Importance Factor 1
 - 2. Standard Live Roof Load – 60 PSF
 - 3. Standard Floor Load – 250 PSF (if precast floor provided by building manufacturer)
 - 4. Standard Wind Loading – ASCE 7-10 conforming to geographic area.
- B. Roof: Roof panel incorporates a tri-beam post tensioned system that has a minimum of 8" slope from peak to edge. Each panel to be post tensioned. The roof shall extend 4" beyond the wall panel and have a turndown design which extends ½" below the top edge of the wall panels to prevent water migration into the building along top of wall panels. Roof shall also have an integral architectural ribbed edge.
 - 1. Option: If indicated on contract drawings, building can be made expandable with a removable ribbed fascia panel. End wall and roof must have imbeds to allow post-tensioning of additional

sections onto existing structure without de-tensioning the existing structure. Roof slabs must be designed to span the free area without internal support for intermediate modules without end walls.

- C. Keyway Roof and Floor Joints: Grout in keyways above cast in rubber Durajoint water stop with SikaFlex Floor panel or contractor supplied C.I.P slab must have a 1/2" step-down around the entire perimeter to prevent water migration into the building along the bottom of wall panels.

1.04 SUBMITTALS

- A. Drawings and calculations sealed by a professional engineer, licensed to practice in the state where the project is located, shall be submitted for approval.
- B. Manufacturer to provide cut sheets on all attached fixtures.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Concrete: Steel-reinforced, 5000 PSI minimum 28-day compressive strength.
- B. Reinforcing Steel: ASTM A615, grade 60 unless otherwise specified.
- C. Post-tensioning cable shall be 41K polystrand CP50, .50", 270 KSI, 7-wire strand, enclosed within a greased plastic sheath (ASTM A416). There will be a minimum of three post-tensioning cables connecting roofs and floors together to provide a watertight monolithic diaphragm.
- D. Caulking: All joints between panels shall be caulked on the exterior and interior surface of the joints. Caulking shall be SIKAFLEX-1A elastic sealant or equal. Exterior caulk joint to be 3/8" x 3/8" square so that sides of joint are parallel for correct caulk adhesion.
- E. Optional Vents: Two screened aluminum vents to be cast in rear wall. Vents shall be SUNVENT 8"x16" with bug screen, or equal
- F. Panel Connections: All panel connections shall be welded together utilizing imbedded weld plates with Nelson anchors. Assembly shall be welded by a certified welder.

2.02 ACCESSORIES

- A. Doors and Frames: Shall comply with Steel Door Institute "Recommended Specifications for Standard Steel Doors and Frames" (SDI-100), and as herein specified. The building may be equipped with double 3'-0" x 6'-8" x 1-3/4", 18-gauge galvanized/insulated CECO Imperial right hand reverse metal doors with 16-gauge galvanized frames, or equal. Doors and frames shall be bonderized and painted one coat of rust inhibitive primer and one finish coat of enamel paint.
- B. Door Hardware:
 - 1. Handle: Yale 8822 Mortise Lever Lockset
 - 2. Hinges: PB-31/NRP/26D 4 1/2" x 4 1/2" (chrome-plated with non-removable hinge pins), 3 per door or equal.
 - 3. Lock Set: PDQ Industries KR116 - 32D (stainless steel finish) or equal.
 - 4. Surface Bolt, Upper: Cal-Royal 045901426D (satin chrome finish) or equal.
 - 5. Surface Bolt, Lower: Cal-Royal 045901426D (satin chrome finish) or equal.

6. Removable Astragal: A4441/68R or equal, optional.
7. Threshold: National Guard 897V60 raised interior, extruded aluminum threshold with neoprene seal or equal.
8. Door Holder: Glynn-Johnson 904H US32D (stainless steel finish), overhead slide type surface mounted door holder or equal.
9. Drip Cap: National Guard 15D72 or equal.
10. Door Stop: Ives 445B26D (Inactive leaf only) or equal.

C. (1) Solatube 160 DS 10" skylight.

2.03 FINISHES

- A. Interior of Building: Smooth form finish on all interior panel surfaces.
- B. Exterior of Building shall be form lined finished in a pattern selected from the Lake County Building Finish Options page and noted on the drawings.
- C. Paint: 1 coat of Loxon primer and two coats of Duracraft paint in owner's choice of exterior color. Inside walls to be painted in white, floor to be painted in Sherwin Williams HC Silver Gray # 124.

PART 3 - EXECUTION

3.01 SITE PREPARATION REQUIREMENTS (Field assembled on cast-in-place floor)

OPTIONAL: Slab on grade to be designed by Engineer of Record and poured by others to a minimum 6" thick and 4,000 psi steel reinforced concrete. Slab to be level within 1/8" in both directions and capable of supporting loads imposed by the structure, with a 1/2" step-down along the perimeter edge.

3.02 SITE PREPARATION (Field assembled on precast floor system)

- A. EASI-SPAN® building shall bear fully on a crushed stone base that is at least one foot larger in all directions than the footprint of the building.
- B. Stone shall be a minimum of 4" thick or down to firm sub grade. 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 after the building is set.
- C. 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

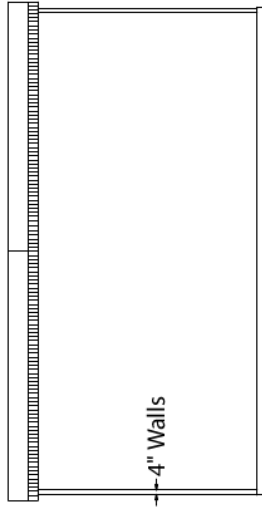
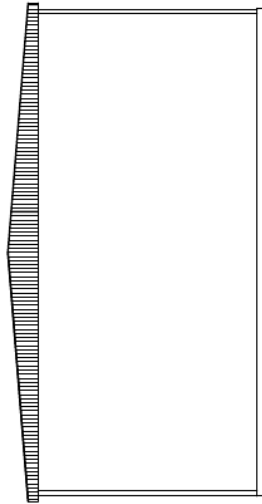
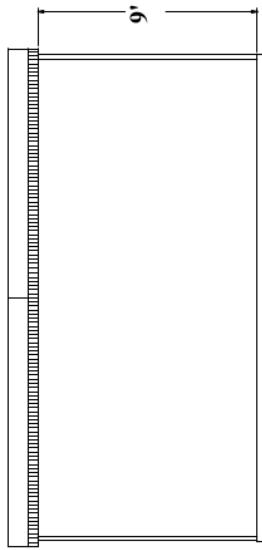
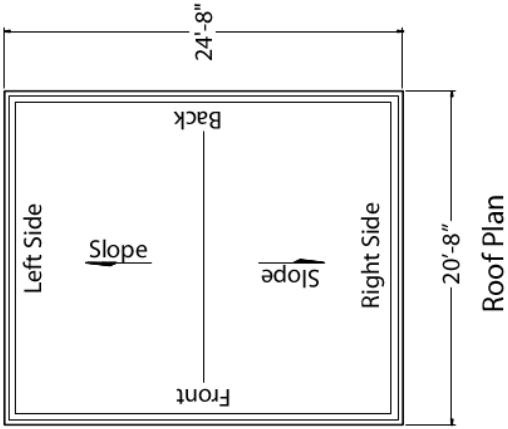
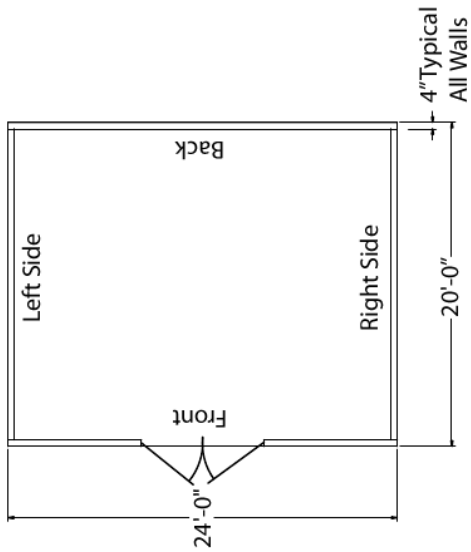
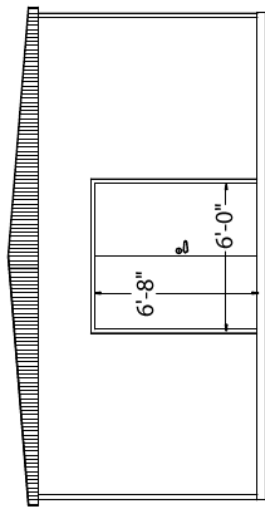
If building is placed on pavement or concrete slab, substrate below pavement or slab must have a vertical soil capacity of 1,500 pounds per square foot. Place stone or sand to 1" above highest point of area where building will be placed and at least 1'-0" wide all around the building footprint. Retain stone or sand with a perimeter form to prevent the material from washing out.

- D. Provide positive drainage for the fill, pad, or slab as required.
- E. Contractor or Manufacturer to haul off excess dirt from excavation for sub-base and sidewalk.

3.03 ACCESS

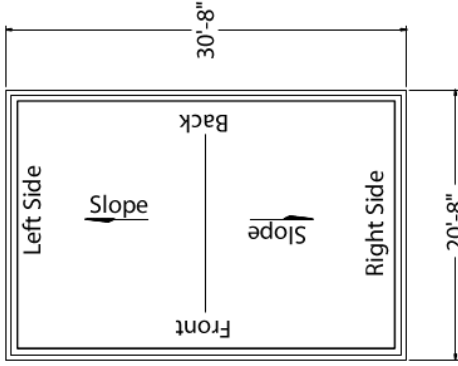
The contractor must provide for a level unobstructed area large enough for a 100 ton crane and a tractor-trailer to park adjacent to the pad. Crane must be able to place outriggers within 5'-0" of edge of pad, and truck and crane must be able to get side by side under their own power. No overhead lines may be within 75' radius of center of pad. Firm roadbed with turns that allow 65' lowbed tractor-trailer must be provided directly to site. No building shall be placed closer than 2'-0" to an existing structure.

Typical 20' x 24' Easi-Span Building 20' X 24' SITE ASSEMBLED PRECAST CONCRETE BUILDING ITEM #13

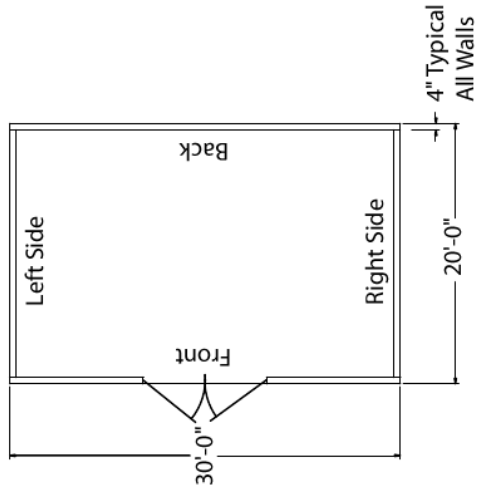


Typical 20' x 30' Easi-Span Building

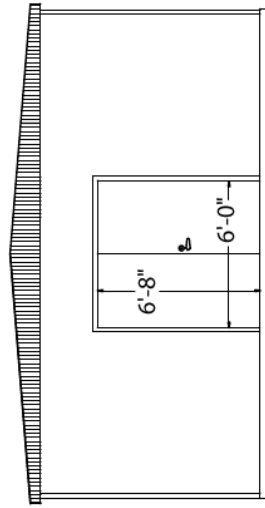
20' X 30' SITE ASSEMBLED PRECAST CONCRETE BUILDING ITEM #14



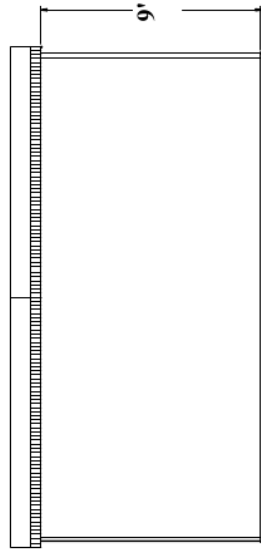
Roof Plan



Floor Plan

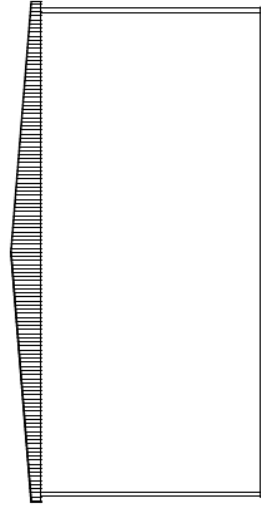


Front

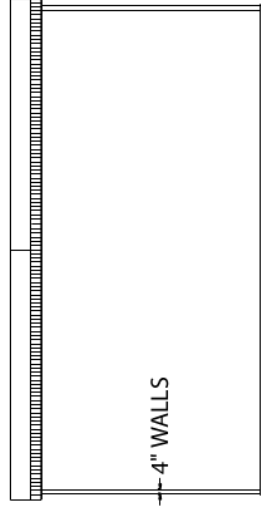


Right Side

H = 9'



Back



Left Side



SHEET NO. _____ OF _____
NAME _____ JOB NO. _____