# OZARK 1 SINGLE FLUSH TOILET BUILDING

## NOTES

1. BUILDING IS DESIGNED TO COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC)

2. DESIGN COMPLIES WITH THE PROVISIONS OF THE 2012 IBC FOR THE FOLLOWING LOADS:
   GROUND SNOW LOAD = 250 PSF
   FLOOR LOAD = 400 PSF
   IBC DESIGN SPECTRAL RESPONSE $S_S$ = 0.411, $S_1$ = 0.132
   SITE CLASS D
   SEISMIC USE GROUP: II
   SEISMIC DESIGN CATEGORY: C
   BEARING WALL SYSTEM R = 4.0
   BASIC WIND SPEED = 150 MPH (3-SECOND GUST),
   WIND EXPOSURE C, I = 1.0

3. CONSTRUCTION TYPE: V-B
   OCCUPANCY: B
   EXTERIOR WALLS: 1-HR RATED PER IBC TABLE 721.1(2), ITEM 4-1.1
   MINIMUM FIRE SEPARATION DISTANCE: 10 FEET

4. CONCRETE STRENGTH f'ci = 2500 PSI INITIAL f'c = 5000 PSI
   FINAL AIR ENTRAINMENT 6% ± 1 1/2% IN PLASTIC CONCRETE.
   REINFORCING STEEL: GRADE 60 Fy=60 KSI
   MINIMUM LAP 18" AT SPLICES. TIE BARS DOUBLE ANNEALED 16 GA IRON WIRE. REINFORCING TO BE PLACED IN CENTER OF PANEL UNO.
   WELDED WIRE FABRIC(W.W.F.): 4x4xW8xW8, Fy=65 KSI (OR EQUIVAL). COMPLY WITH ASTM A82, SMOOTH WIRE, MIN. LAP 2 SQUARES.

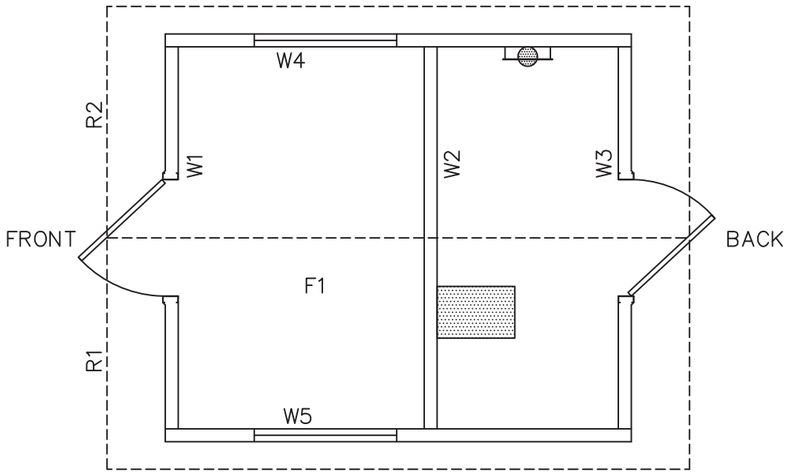
5. EMBEDDED ITEMS IDENTIFIED ON DRAWINGS(i.e. PS-2, R301) REFER TO CXT STANDARD EMBEDMENT CATALOG.

6. BACK OF PANELS TO HAVE SMOOTH TROWEL FINISH U.N.O. ALL SURFACES TO BE TEXTURED ARE NOTED ON PANEL DWG'S

7. REFER TO SEPARATE CXT INCORPORATED SPECIFICATIONS COVERING DESIGN, MATERIALS, PRODUCTION, AND INSTALLATION CRITERIA FOR SPECIFIC STYLE OF BUILDING.

8. ADEQUATE PLUMBING FACILITIES MUST BE PROVIDED IN ACCORDANCE WITH 2012 IBC SECTION 2902 (NOT BY CXT)

## PANEL MARK NO. KEY PLAN




## APPLICABLE CODES

GEORGIA STATE MINIMUM STANDARDS WITH AMENDMENTS (EFFECTIVE JAN 1, 2018)

2012 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2014, 2015, 2017 & 2018)
2012 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS (2014)
2012 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2014 & 2015)
2012 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2014 & 2015)
2012 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2014 & 2015)
2017 NATIONAL ELECTRIC CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA SUPPLEMENTS & AMENDMENTS (2011)(2012)

## RULES OF SAFETY FIRE COMMISSIONER

*NFPA LIFE SAFETY CODE 2012 EDITION WITH GEORGIA AMENDMENTS
*ACCESSIBILITY RULES 2010 EDITION

## SPECIAL CONDITIONS AND/OR LIMITATIONS

ACCESSIBILITY TO THIS BUILDING, INCLUDING PARKING IS TO BE PROVIDED BY OTHERS AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL BUILDING CODES

## INDEX OF DRAWINGS


| NO. | TITLE |
|---|---|
| OZ 1-01 | COVER SHEET |
| OZ 1-02 | BUILDING ELEVATIONS |
| OZ 1-03 | INTERIOR ELEVATIONS |
| OZ 1-04 | FLOOR PLAN |
| OZ 1-05 | FINISH DETAILS |
| OZ 1-06 | CASTING DETAILS |
| OZ 1-07 | FLOOR SLAB MARK F1 |
| OZ 1-08 | WALL PANEL MARK W1 |
| OZ 1-09 | WALL PANEL MARK W2 |
| OZ 1-10 | WALL PANEL MARK W3 |
| OZ 1-11 | WALL PANEL MARK W4 |
| OZ 1-12 | WALL PANEL MARK W5 |
| OZ 1-13 | ROOF SLAB MARK R1 |
| OZ 1-14 | ROOF SLAB MARK R2 |
| OZ 1-15 | RIGGING DETAILS |
| OZ 1-16 | PLUMBING PLAN, DIAGRAMS & SCHEDULES |
| OZ 1-17 | ELECTRICAL PLAN, DETAILS & SCHEDULES |
| OZ 1-18 | FLOOR DRAIN BLOCKOUTS & BELOW FLOOR PIPING |
| OZ 1-19 | FOUNDATION DETAIL |
| OZ 1-20 | MATERIAL LIST |


GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

**CASTING TOLERANCES**

OVERALL LENGTH OR WIDTH
10 FT OR UNDER = ± 1/8"
10 TO 20 FT = +1/8", -3/16"
20 TO 40 FT = ±1/4"
TOTAL THICKNESS = -1/8, +1/4
VARIATION FROM SQUARE = ±1/8 PER 6 FT OF DIAGONAL
LOCAL SMOOTHNESS = 1/4" IN 10 FT
SWEEP = ±1/4"
POSITION OF TENDONS = ±1/4"
POSITION OF BLOCKOUTS = ±1/4"
SIZE OF BLOCKOUTS = ±1/4"
POSITION OF EMBEDS = ±1/4"
TIPPING AND FLUSHNESS OF PLATES = +1/16, -1/4
BOWING = LENGTH/360
END SQUARENESS = ±1/8"

## GEORGIA STATE APPROVAL AND TAG REQUIRED

WALL TEXTURE: BOARD AND BATT / NAPA VALLEY
WALL COLOR: RICH EARTH
STONE COLOR: MOUNTAIN BLEND

ROOF TEXTURE: CEDAR SHAKE
ROOF COLOR: HUNTER GREEN

TRIM PAINT: DTM ALKYD ENAMEL BROWN

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019

GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

CXT Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232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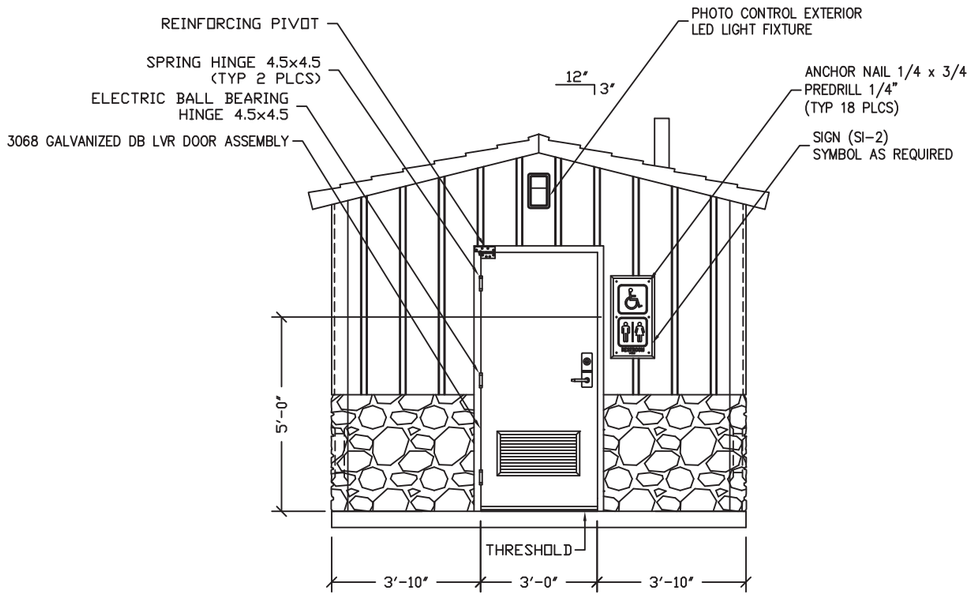
CXT Incorporated

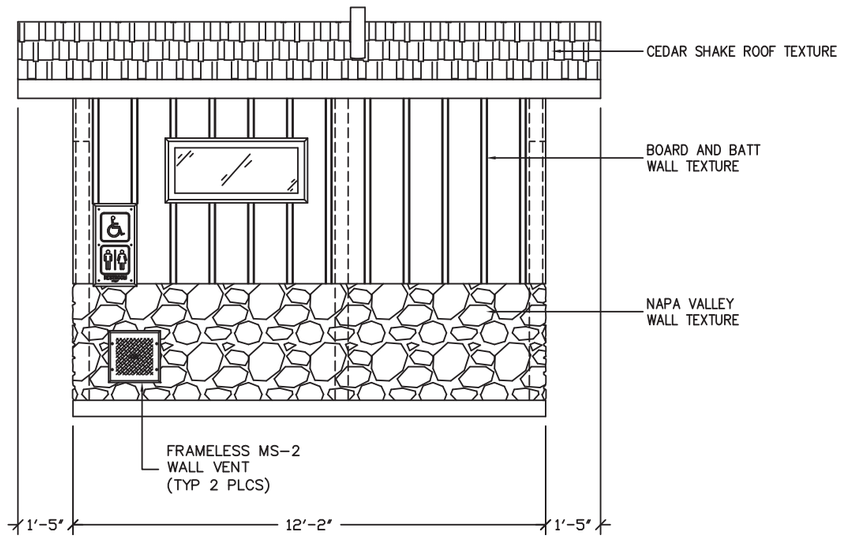

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/4"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 48 |

COVER SHEET

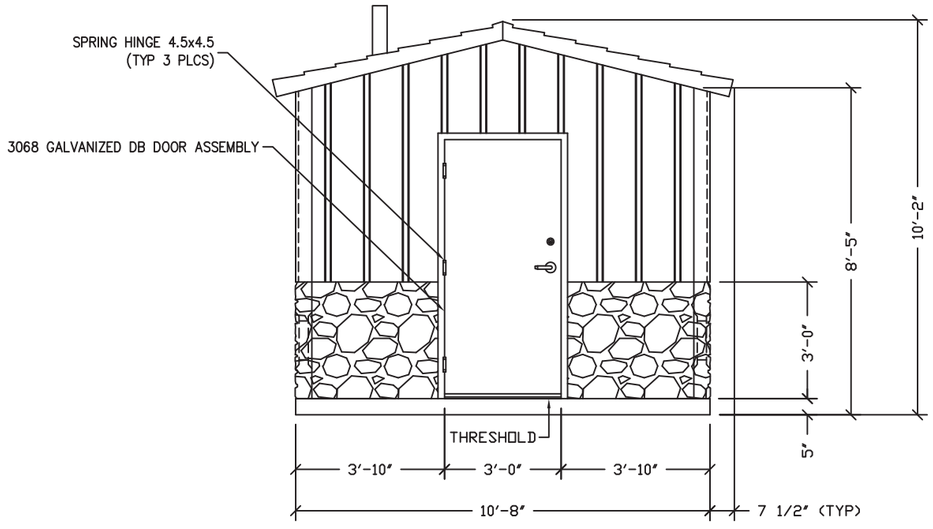
DWG NO. OZ 1-01 | SHEET 1/20 | REV.



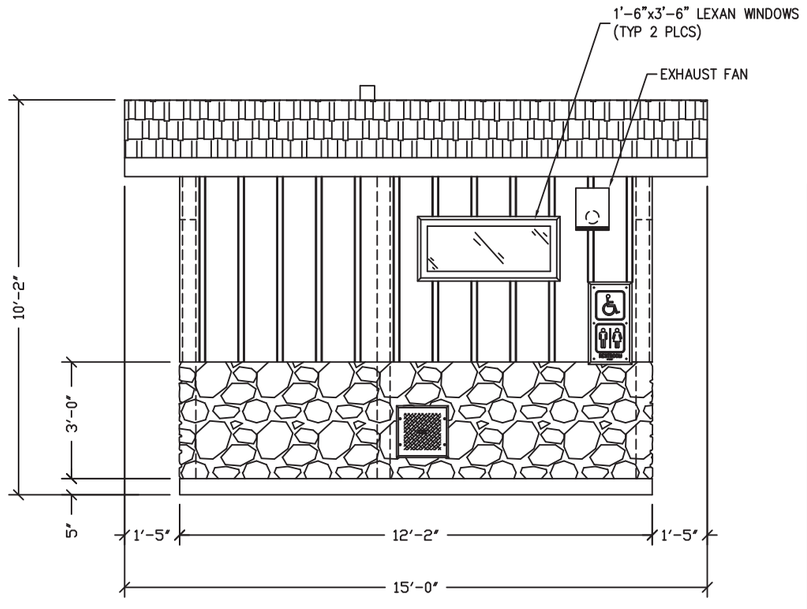

FRONT ELEVATION




RIGHT END ELEVATION




BACK ELEVATION




LEFT END ELEVATION

| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| SI-2 | 3 |
| ANCHOR NAIL 1/4x3/4 | 18 |
| 3068 DOOR ASSEMBLY | 2 |
| SPRING HINGE 4.5x4.5 | 5 |
| ELECTRIC BEARING HINGE | 1 |
| REINFORCING PIVOT | 1 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| | |

APPROXIMATE WEIGHT

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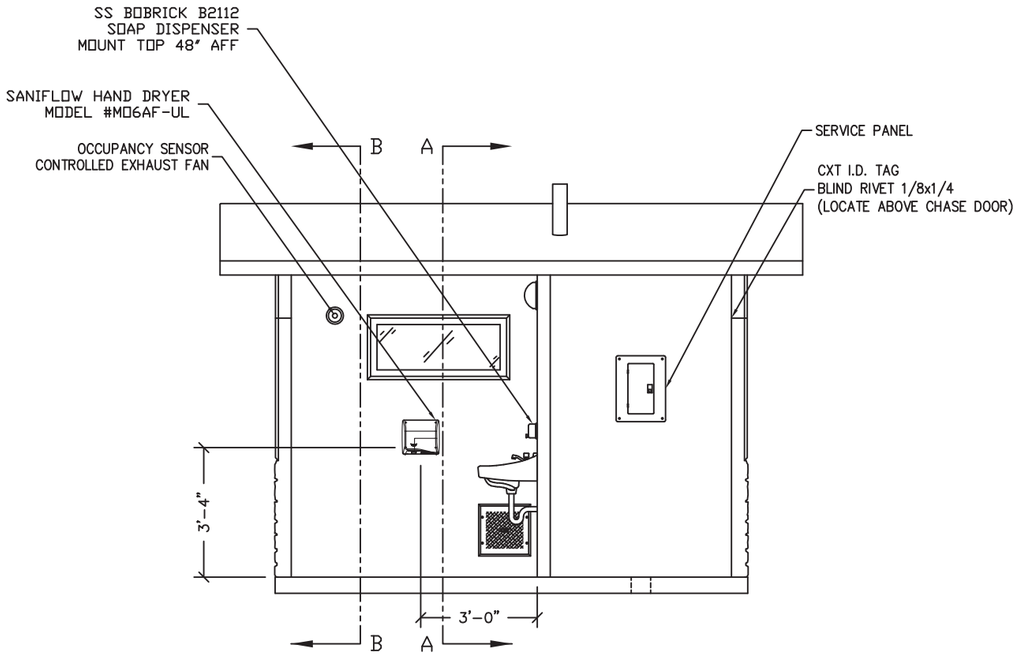
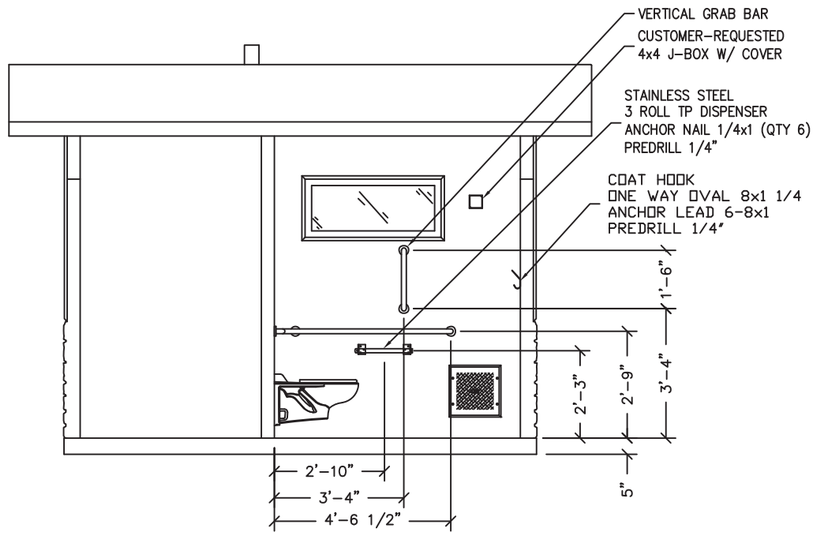
| CHECKED | RDW | PLOT | 48 |

BUILDING ELEVATIONS

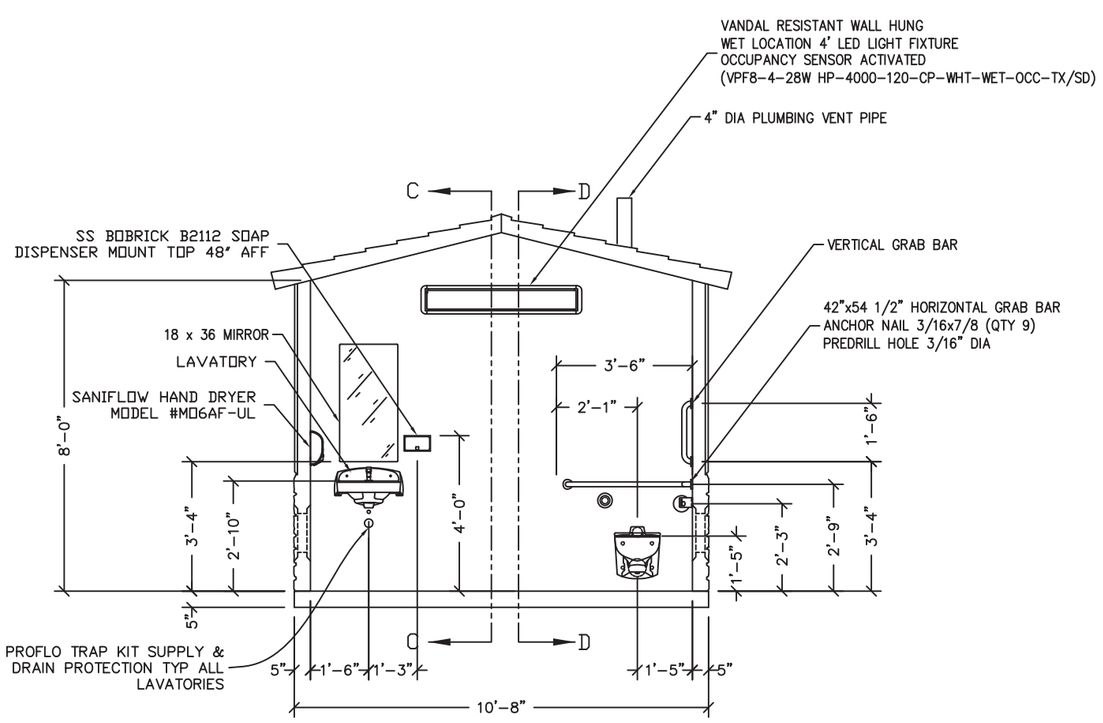
| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-02 | 2 / 20 | |



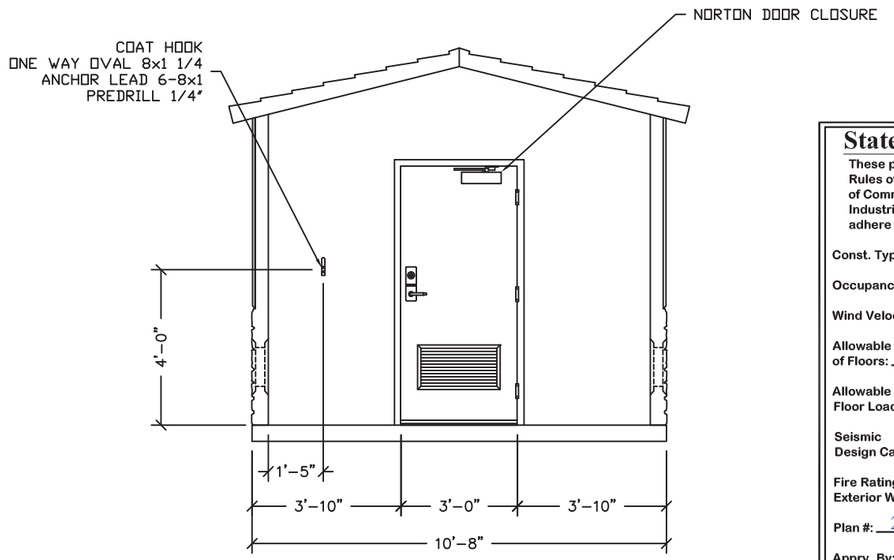

SECTION C – C




SECTION D – D




SECTION A – A




SECTION B – B

| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| GRAB BAR | 1 |
| TP DISPENSER | 1 |
| TOILET PAPER ROLL | 3 |
| COAT HOOK | 1 |
| DOOR STOP | 1 |
| VERTICAL GRAB BAR | 1 |
| CXT I.D. TAG | 1 |
| ANCHOR NAIL 1/4x1 | 6 |
| ANCHOR NAIL 1/4x3/4 | 12 |
| ANCHOR NAIL 3/16x7/8 | 9 |
| ONE WAY OVAL 8x1 1/4 | 2 |
| ANCHOR LEAD 6-8x1 | 2 |
| BLIND RIVET 1/8x1/4 | 2 |
| NORTON DOOR CLOSURE | 1 |
| BOBRICK SOAP DISPENSER | 1 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| | |

APPROXIMATE WEIGHT

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

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Fire Rating of Exterior Walls: 1 HRS

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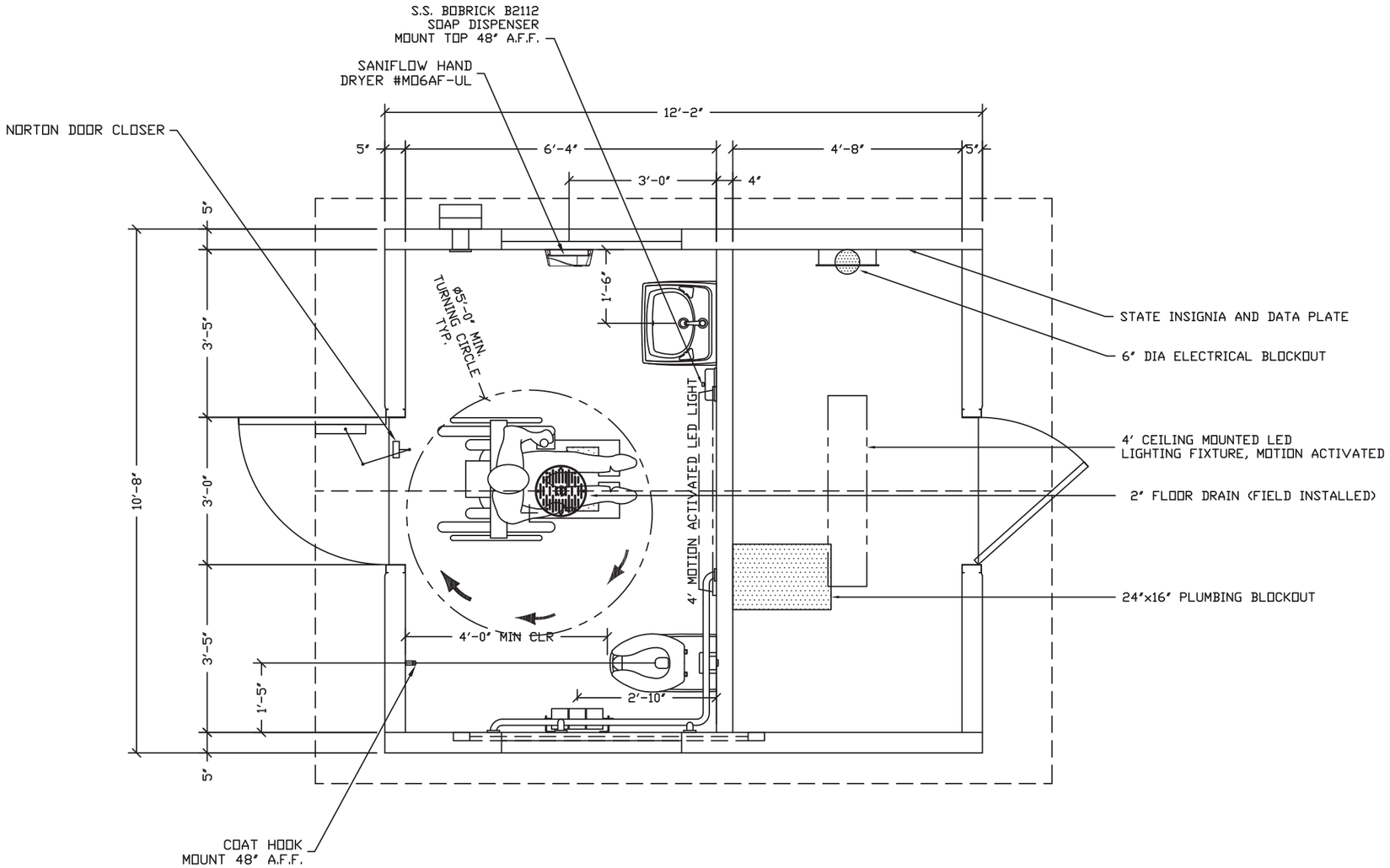
| SCALE | 1/4"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 48 |

INTERIOR ELEVATIONS

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-03 | 3 / 20 | |




FLOOR PLAN

NOTE:

ELECTRICAL AND PLUMBING COMPONENTS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. SEE SHEETS OZ 1-16 THRU OZ 1-19 FOR COMPLETE SYSTEM DESCRIPTIONS.

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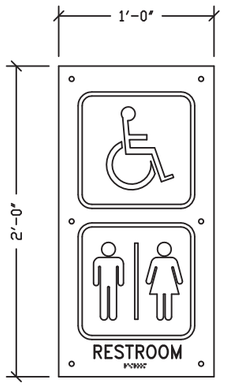
|---|---|---|---|
| SCALE | 3/8"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 32 |

FLOOR PLAN

DWG NO. OZ 1-04

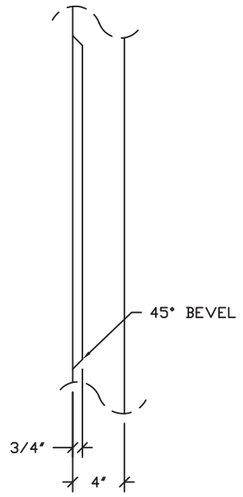
SHEET 4 / 20

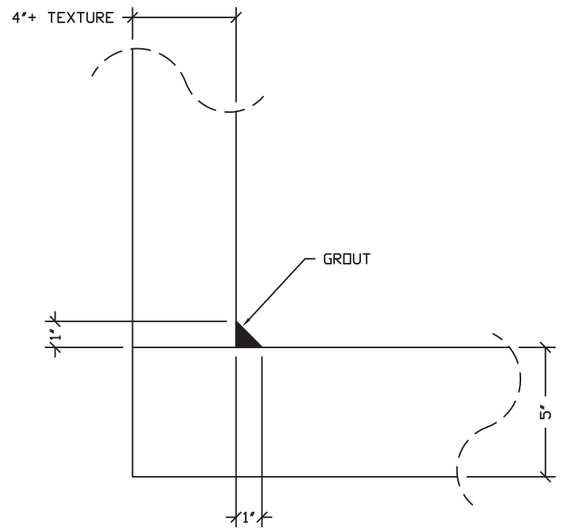
REV.



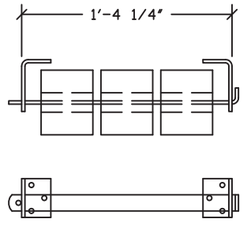

SI-2-U

SIGN SI-2 DETAIL




WALL JOINT DETAIL




DISPENSER DETAIL

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Allowable # of Floors: 1

Allowable Floor Load: 400 PSF

Seismic Design Category: C

Fire Rating of Exterior Walls: 1 HRS

Plan #: 2019-4264

Apprv. By: Ian Henderson

Apprv. Date: 05/20/2019

GA. DCA Approved Third Party

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GEORGIA
REGISTERED
No. 028067
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ENGINEER
WILLIAM RICHARD HEIDEN, III

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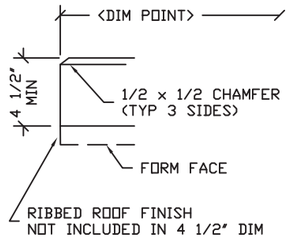
|---|---|---|---|
| SCALE | 1"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 12 |

FINISH DETAILS

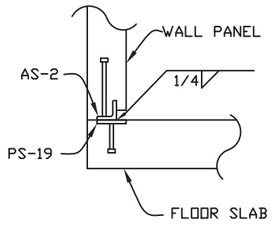
DWG NO. OZ 1-05

SHEET 5 / 20

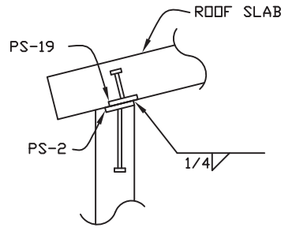
REV.



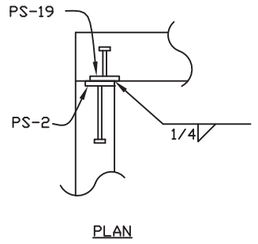

1 TYPICAL ROOF SLAB EDGE



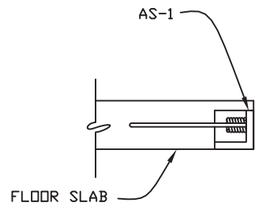

2 TYP. WALL TO FLOOR SLAB WELDED CONNECTION



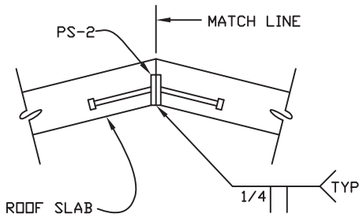

3 TYP. WALL TO ROOF SLAB WELDED CONNECTION



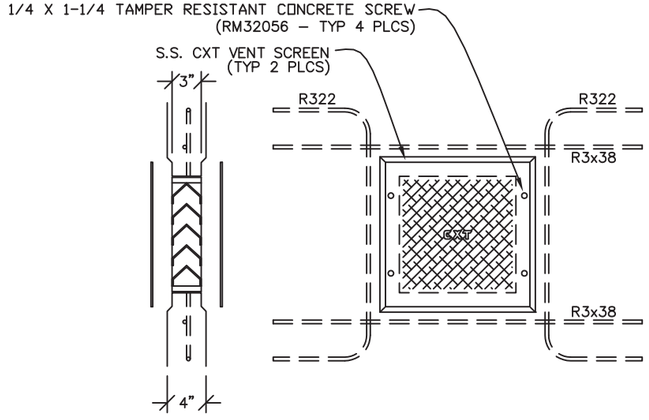

4 TYP. WALL TO WALL PANEL WELDED CONNECTION




5 FLOOR LIFT PLATE DETAIL




6 ROOF PEAK WELDMENT DETAIL




7 STANDARD FRAMELESS MS-2 WALL VENT DETAIL

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CXT Incorporated

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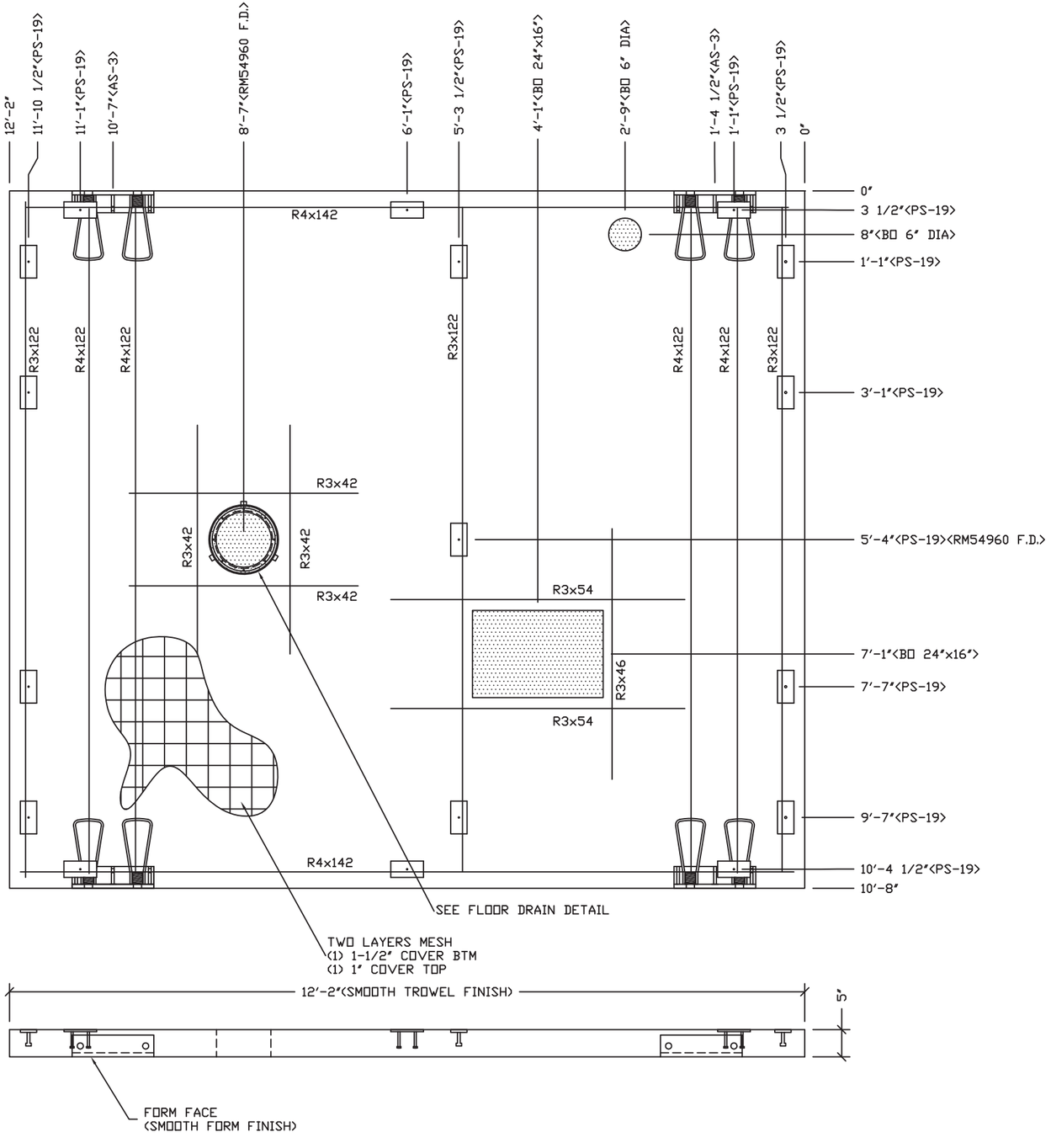
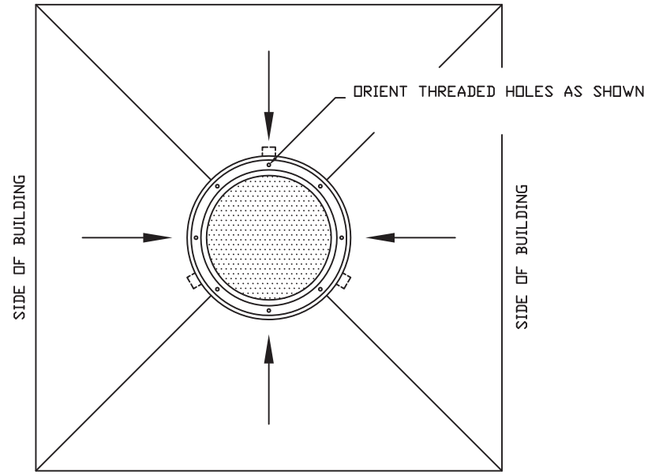
|---|---|---|---|
| | | | |

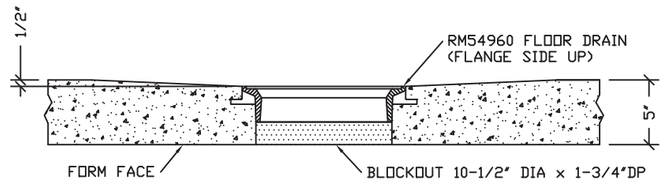
| | | | |
|---|---|---|---|
| SCALE | 3/4"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 16 |

CASTING DETAILS

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-06 | 6 / 20 | |




# FLOOR DRAIN BLOCKOUT DETAIL

| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| AS-3 | 4 |
| PS-19 | 17 |
| R4x122 | 4 |
| R4x140 | 2 |
| R3x42 | 8 |
| R3x46 | 2 |
| R3x54 | 4 |
| R3x122 | 6 |
| BLOCKOUT 6" DIA | 1 |
| BLOCKOUT 24"x16" | 1 |
| RM54960 F.D. | 1 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 52.6 (1.95) | 252 |

APPROXIMATE WEIGHT
7,890

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019

GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

NOTES:

1. FLOOR THICKNESS = 5".
2. SMOOTH TROWEL FINISH NEAR FACE, FORM FINISH ALL OTHER.
3. TWO LAYERS 4x4xW8xW8 MESH
4. R3x122, R3x54 & R3x46 TO BE PLACED IN PAIRS, ONE EACH FACE. 1" COVER TOP & 1 1/4" COVER BOT.
5. R4x122 TO BE PLACED AT BOT WITH 1 1/4" COVER.
6. ALL OTHER BARS TO BE CENTERED IN PANEL.
7. R4x140 TO BE PLACED AT TOP WITH 1" COVER.

CXT Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZI-232

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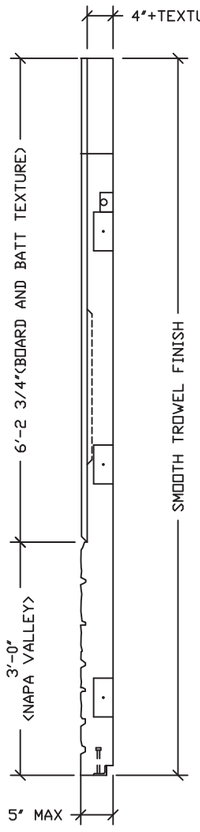
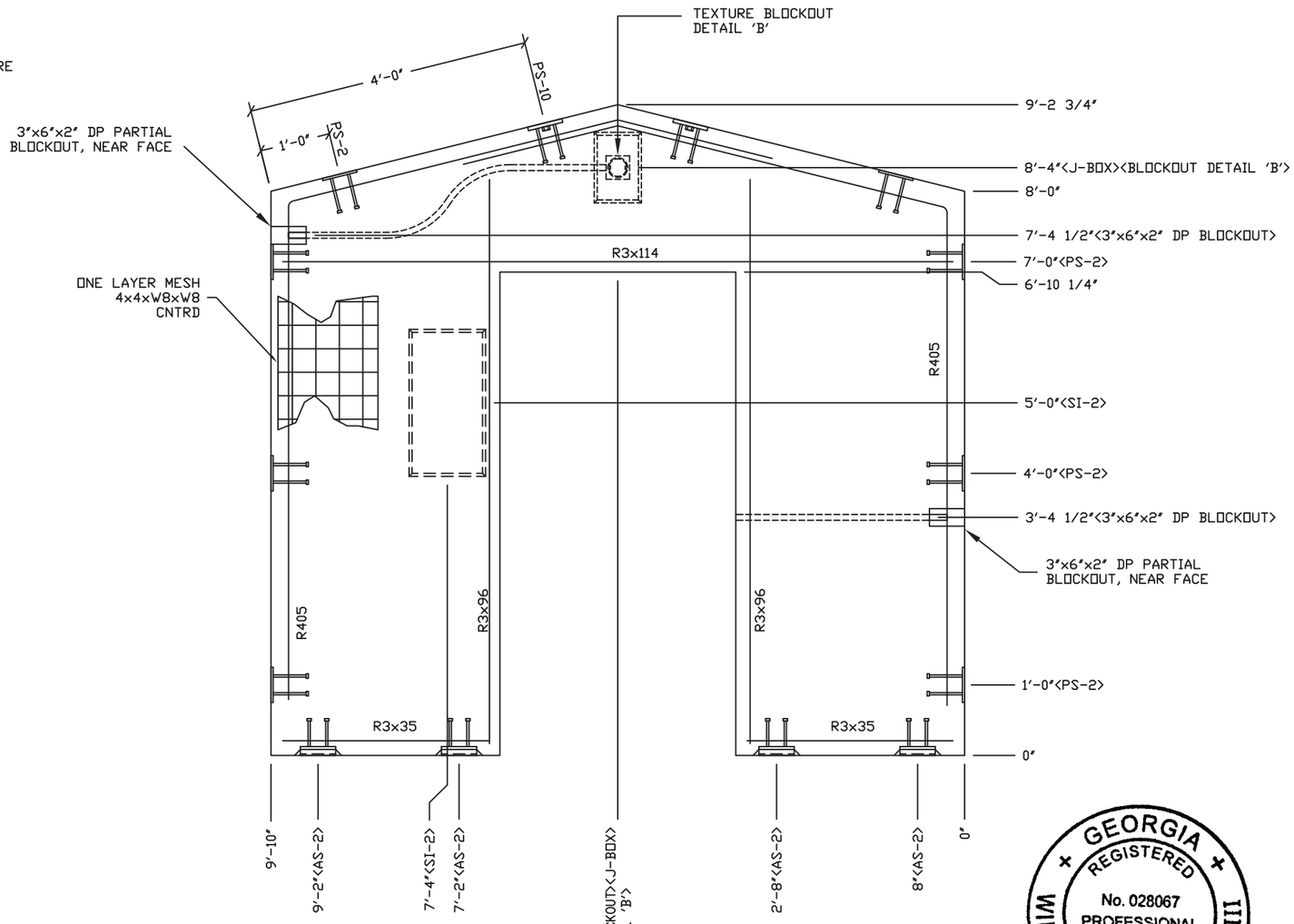
CXT Incorporated

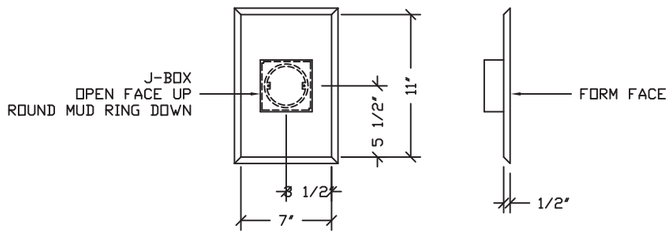
| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 24 |

FLOOR SLAB
MARK F1

DWG NO. OZ 1-07
SHEET 7/20
REV.




TEXTURE BLOCK OUT DETAIL 'B'

| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| PS-2 | 8 |
| PS-10 | 2 |
| R3x114 | 2 |
| R3x96 | 4 |
| R3x35 | 4 |
| R405 | 2 |
| AS-2 | 4 |
| SI-2 | 1 |
| 40 1/8" x 82 1/4" BO | 1 |
| 4x4 J-BOX | 1 |
| ROUND MUD RING | 1 |
| 3"x6"x2" DP BLOCKOUT | 2 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 22.5 (0.83) | 62 |

APPROXIMATE WEIGHT
3,375

NOTES:

1. WALL THICKNESS = 4"+TEXTURE.
2. ONE LAYER 4x4xW8xW8 MESH.
3. R3x35, R3x96 & R3x114 TO BE PLACE IN PAIRS ONE EA FACE W/ 3/4" CLEAR COVER.
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019
GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

**Precast Products**

901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZI-232

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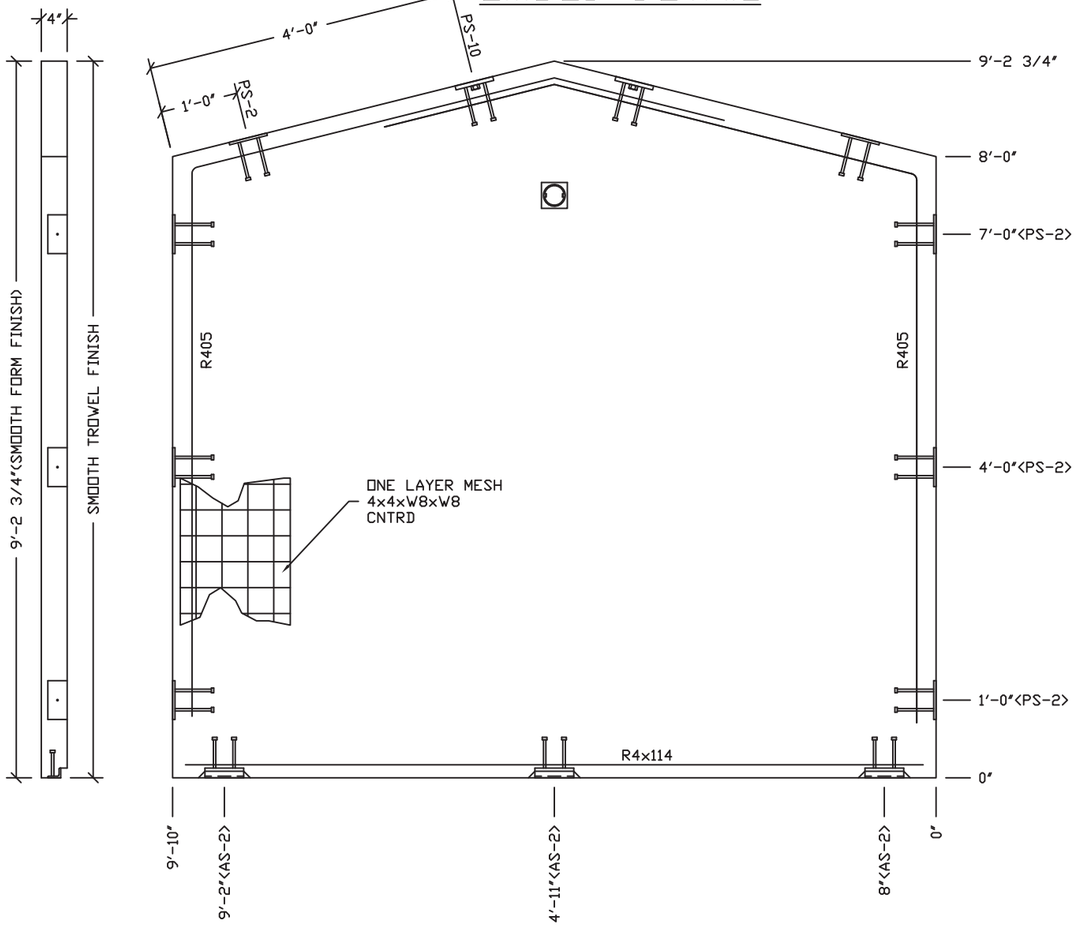
CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 24 |

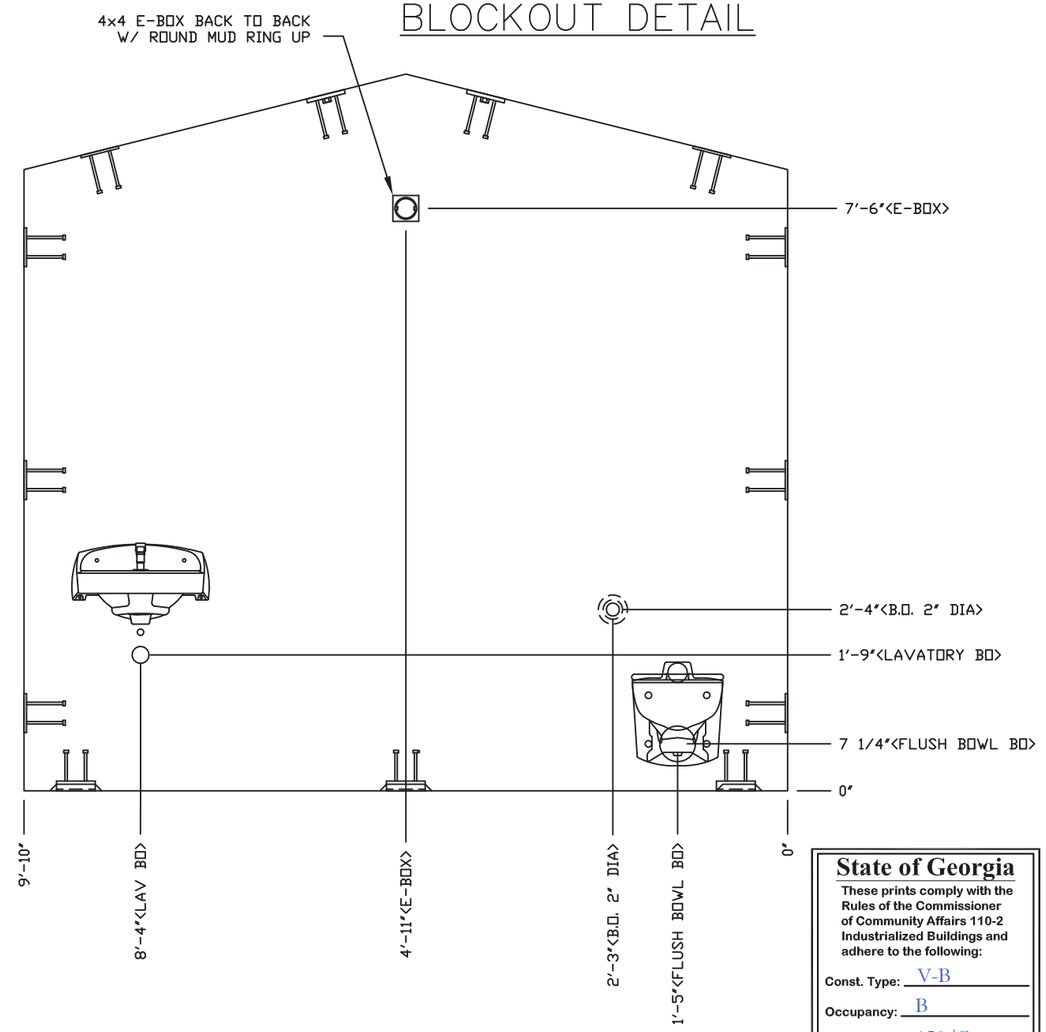
WALL PANEL
MARK W1

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-08 | 8 / 20 | |

# EMBED DETAIL




# BLOCKOUT DETAIL

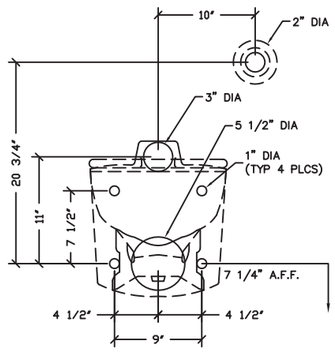



| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| AS-2 | 3 |
| PS-2 | 8 |
| PS-10 | 2 |
| R405 | 2 |
| R4x114 | 1 |
| 4x4 E-BOX | 2 |
| LAVATORY BLOCKOUT | 1 |
| B.O. 2" DIA | 1 |
| FLUSH BOWL BLOCKOUT | 1 |
| ROUND MUD RING | 1 |

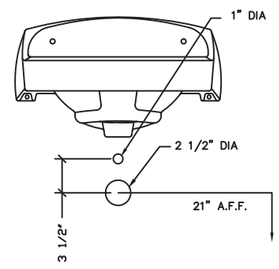
| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 28.2 (1.04) | 80 |

APPROXIMATE WEIGHT
4,230

BLOCKOUT DETAIL — FLUSH VALVE BOWL DETAIL
AMERICAN STANDARD 2634.101




BLOCKOUT DETAIL — LAVATORY DETAIL
AMERICAN STANDARD 0356.421




**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019
GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

NOTES:

1. WALL THICKNESS = 4".
2. ONE LAYER 4x4xW8xW8 MESH.
3. REBAR TO BE CENTERED IN PANEL.

Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

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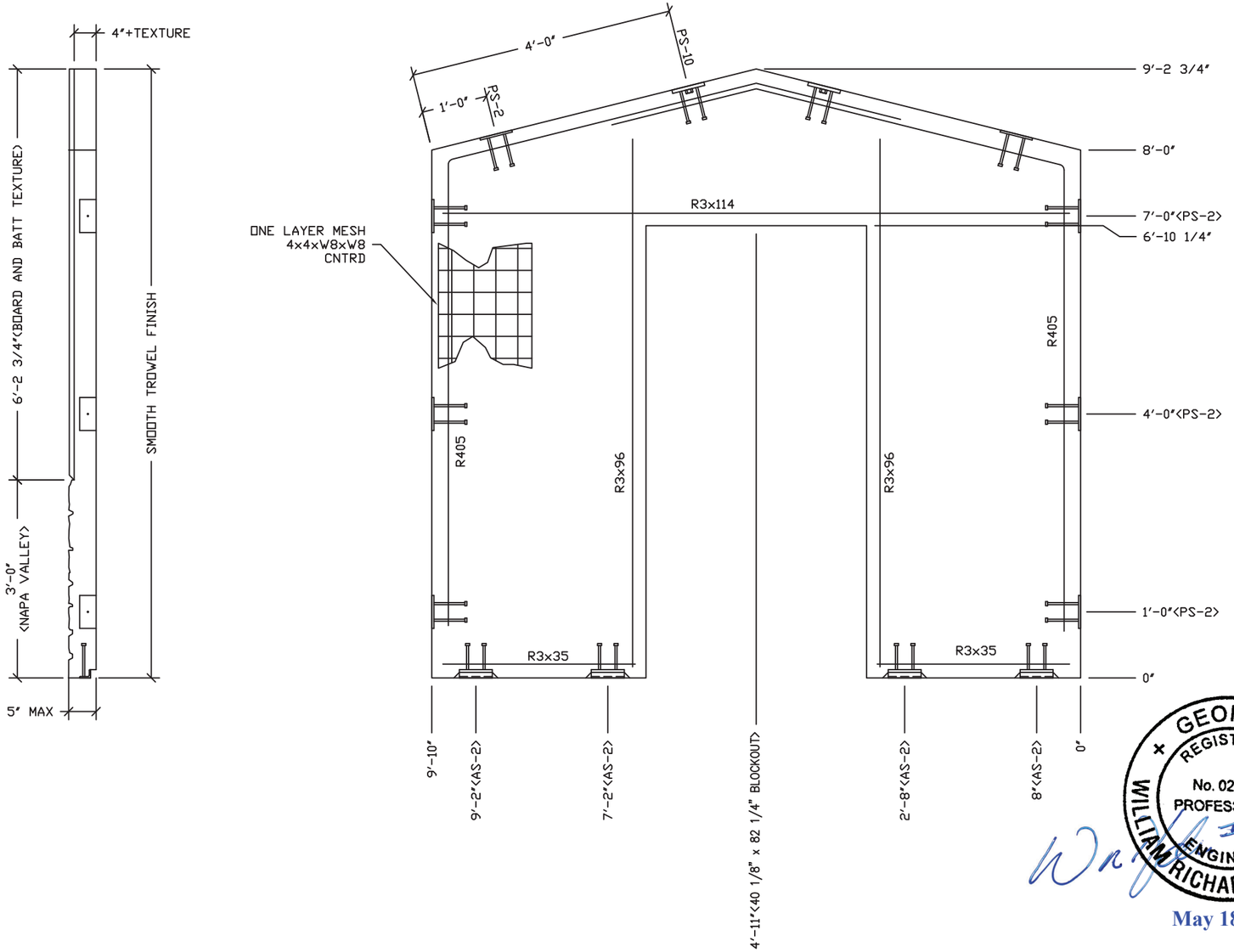
CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 24 |

WALL PANEL
MARK W2

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-09 | 9 / 20 | |




| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| PS-2 | 8 |
| PS-10 | 2 |
| R3x114 | 2 |
| R3x96 | 4 |
| R3x35 | 4 |
| R405 | 2 |
| AS-2 | 4 |
| 40 1/8" x 82 1/4" BO | 1 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 22.5 (0.83) | 62 |

APPROXIMATE WEIGHT
3,375

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019

GA. DCA Approved Third Party
*Progressive Engineering Inc.*
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

GEORGIA
REGISTERED
No. 028067
PROFESSIONAL
ENGINEER
WILLIAM RICHARD HEIDEN, III

May 18, 2019

NOTES:

1. WALL THICKNESS = 4"+TEXTURE.
2. ONE LAYER 4x4xW8xW8 MESH.
3. R3x35, R3x96 & R3x114 TO BE PLACE IN PAIRS ONE EA FACE W/ 3/4" CLEAR COVER.
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

**Precast Products**

901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

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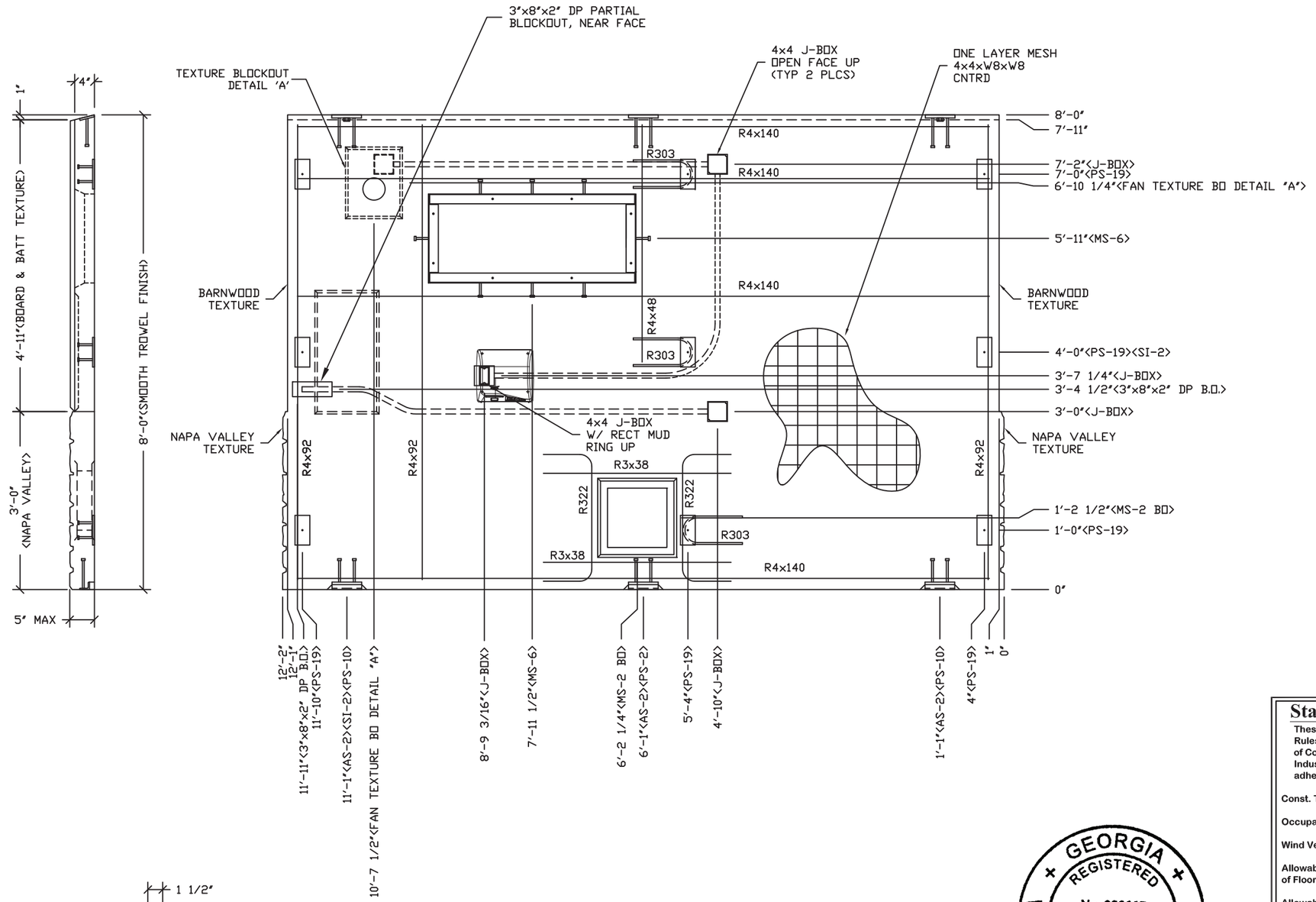
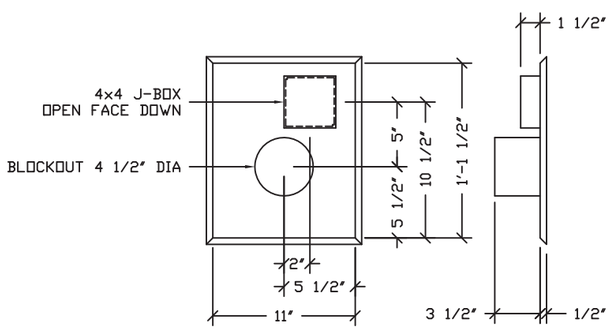
CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 24 |

WALL PANEL
MARK W3

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-10 | 10 / 20 | |




TEXTURE BLOCK OUT DETAIL 'A'
RVF4XL

| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 2 |
| R4x140 | 4 |
| R4x92 | 6 |
| MS-6 | 1 |
| R303 | 3 |
| AS-2 | 3 |
| R4x48 | 2 |
| R322 | 2 |
| R3x38 | 2 |
| MS-2 BO | 1 |
| B.O. 4 1/2" DIA | 1 |
| 4x4 J-BOX | 4 |
| SI-2 MOLD | 1 |
| 3" x 8" x 2" DP BLOCKOUT | 1 |
| RECT MUD RING | 1 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 33.8 (1.25) | 95 |

APPROXIMATE WEIGHT
5,070

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019
GA. DCA Approved Third Party

Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

NOTES:

1. WALL THICKNESS = 4"+TEXTURE
2. ONE LAYER 4x4xW8xW8 MESH, CNTRD
3. R4x48 & R4x92 TO BE PLACED IN PAIRS, ONE EACH FACE W/ 3/4" COVER
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

CXT Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

NOTICE
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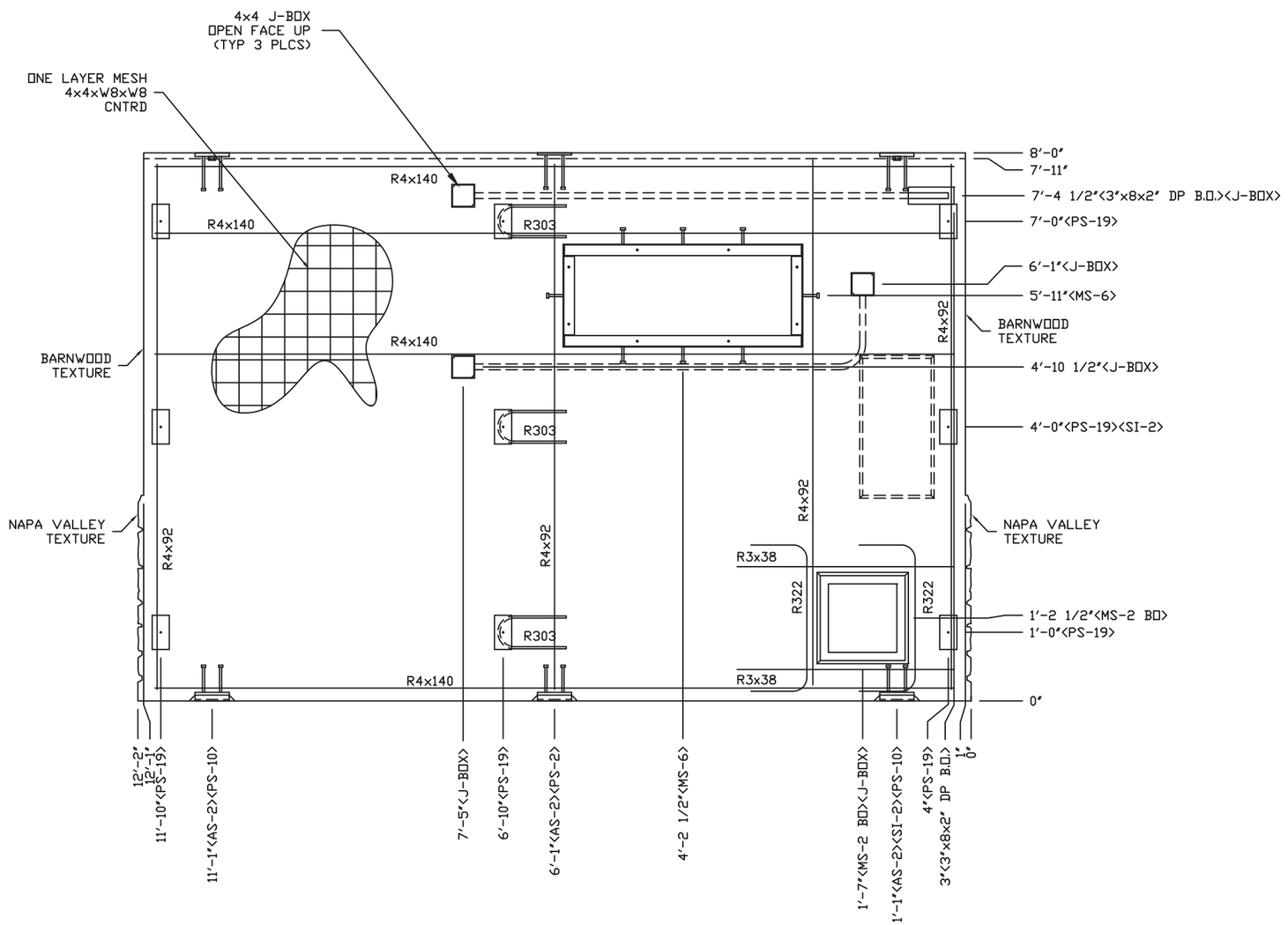
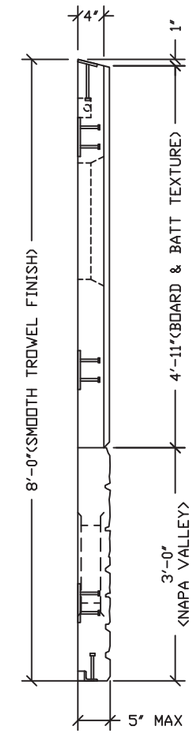
| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 24 |

WALL PANEL
MARK W4

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-11 | 11 / 20 | |




| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 2 |
| R4x140 | 4 |
| R4x92 | 8 |
| AS-2 | 3 |
| R303 | 3 |
| MS-6 | 1 |
| R322 | 2 |
| R3x38 | 2 |
| MS-2 BO | 1 |
| SI-2 MOLD | 1 |
| 3"x8x2" DP B.O. | 1 |
| 4x4 J-BOX | 3 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 33.8 (1.25) | 95 |

APPROXIMATE WEIGHT
5,070

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

NOTES:

1. WALL THICKNESS = 4"+TEXTURE
2. ONE LAYER 4x4xW8xW8 MESH, CNTRD
3. R4x92 TO BE PLACED IN PAIRS, ONE EACH FACE W/ 3/4" COVER
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B

Occupancy: B

Wind Velocity: 150/C MPH

Allowable # of Floors: 1

Allowable Floor Load: 400 PSF

Seismic Design Category: C

Fire Rating of Exterior Walls: 1 HRS

Plan #: 2019-4264

Apprv. By: Ian Henderson

Apprv. Date: 05/20/2019

GA. DCA Approved Third Party

Progressive Engineering Inc.

58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

CXT Precast Products

901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

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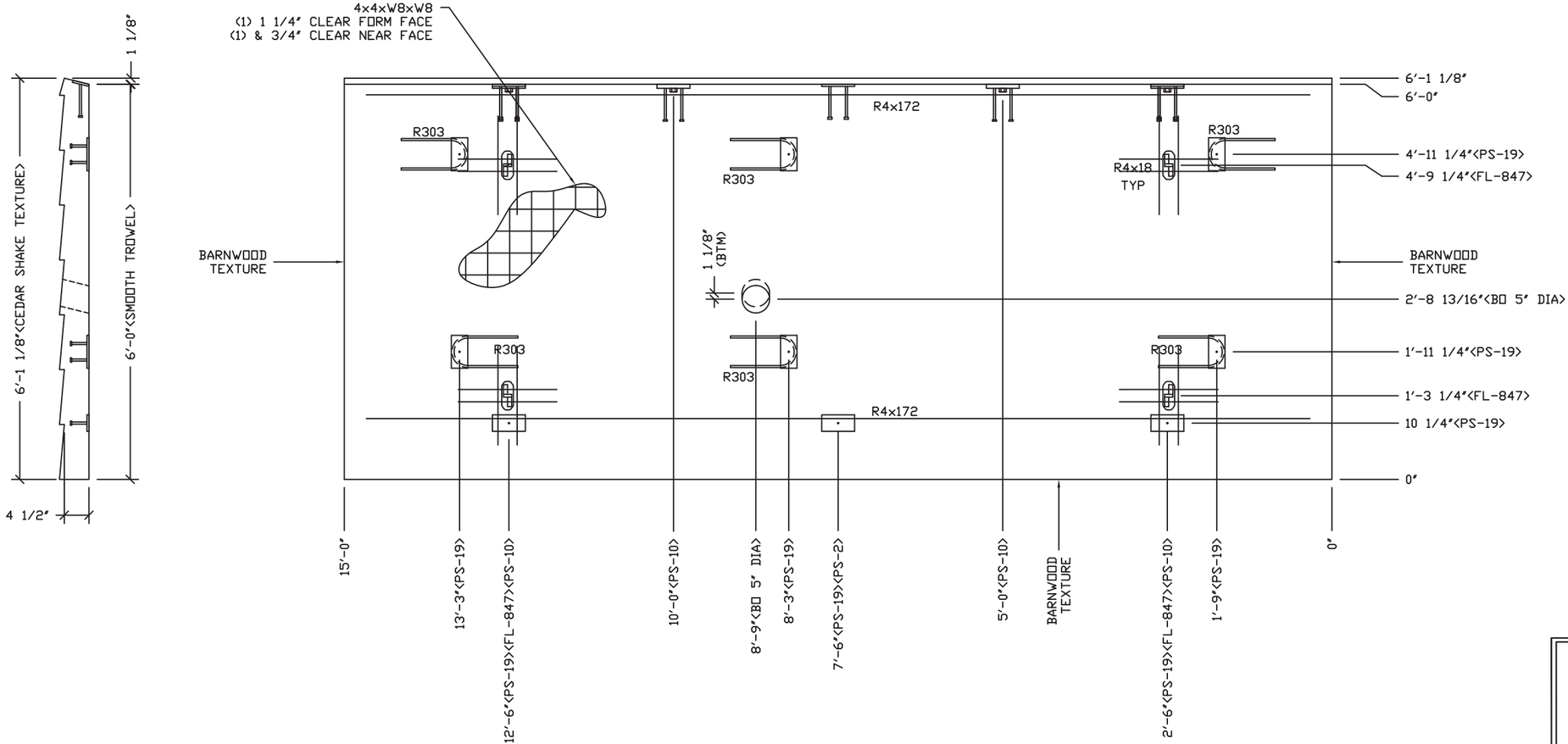
CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 24 |

WALL PANEL
MARK W5

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-12 | 12 / 20 | |




| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 4 |
| R4x172 | 4 |
| R303 | 6 |
| R4x18 | 16 |
| FL-847 | 4 |
| BLOCKOUT 5" DIA | 1 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 37.3 (1.38) | 182 |

APPROXIMATE WEIGHT
5,595

GEORGIA
REGISTERED
No. 028067
PROFESSIONAL
ENGINEER
WILLIAM RICHARD HEIDEN, III

May 18, 2019

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019
GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

NOTES:

1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
2. TWO LAYERS 4x4xW8xW8 MESH.
3. REINFORCING BARS R4x172 TO BE PLACED IN PAIRS. ONE AT EACH FACE WITH 1 1/4" COVER @ FORM FACE & 3/4" COVER @ NEAR FACE
4. R4x18 BARS TO BE PLACED W/ 1" COVER NEAR FACE.
5. ALL OTHER BARS TO BE CENTERED IN PANEL.

CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

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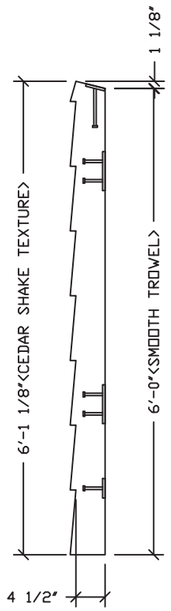
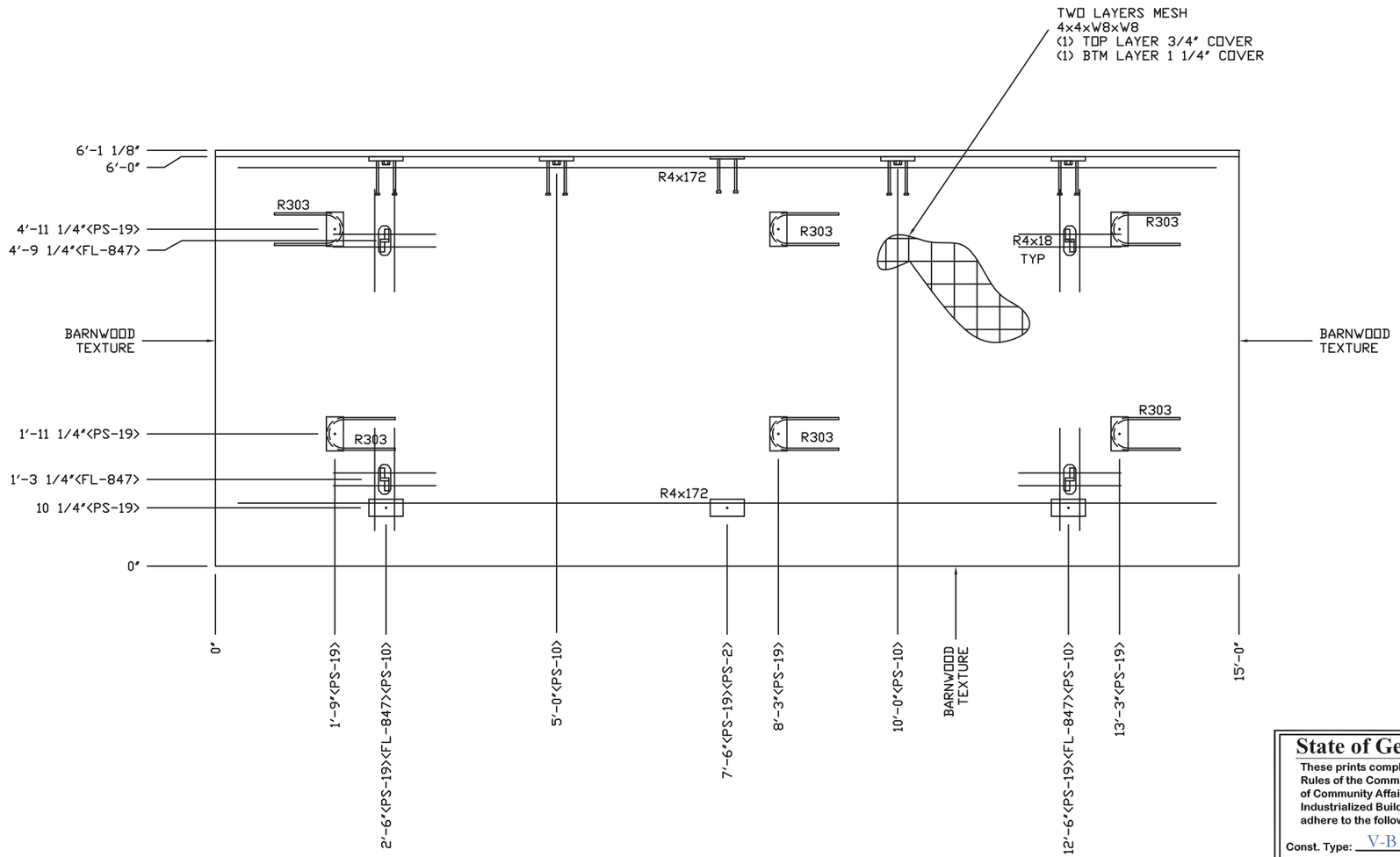
CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 24 |

ROOF SLAB
MARK R1

DWG NO. OZ 1-13
SHEET 13/20
REV.




| EMBEDDED MATERIALS | |
|---|---|
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 4 |
| R4x172 | 4 |
| R303 | 6 |
| R4x18 | 16 |
| FL-847 | 4 |

| CU. FT. CONC. | SQ. FT. W.W.F. |
|---|---|
| 37.3 (1.38) | 182 |

APPROXIMATE WEIGHT
5,595

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

NOTES:

1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
2. TWO LAYERS 4x4xW8xW8 MESH.
3. REINFORCING BARS R4x68 & R4x172 TO BE PLACED IN PAIRS. ONE AT EACH FACE WITH 1 1/4" COVER @ FORM FACE & 3/4" COVER @ NEAR FACE
4. R4x18 BARS TO BE PLACED W/ 1" COVER NEAR FACE.
5. ALL OTHER BARS TO BE CENTERED IN PANEL.

**State of Georgia**

These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:

Const. Type: V-B
Occupancy: B
Wind Velocity: 150/C MPH
Allowable # of Floors: 1
Allowable Floor Load: 400 PSF
Seismic Design Category: C
Fire Rating of Exterior Walls: 1 HRS
Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019

GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337


CXT Precast Products
901 N. Highway 77 Hillsboro, TX 76645


PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232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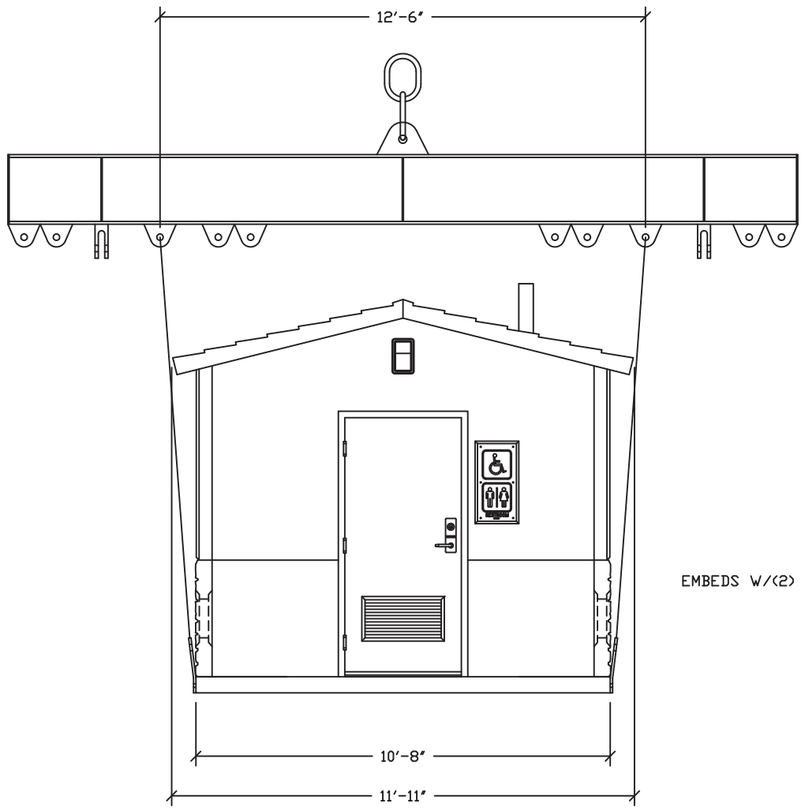
CXT Incorporated

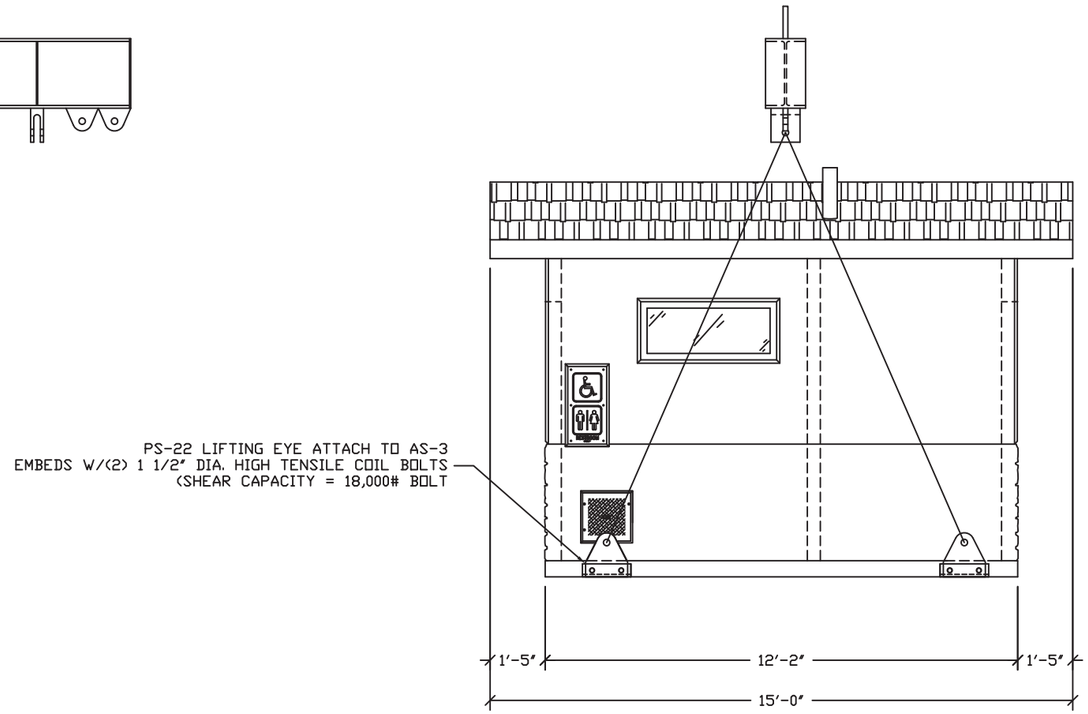

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| | | | |

| | | | |
|---|---|---|---|
| SCALE | 1/2"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 24 |

ROOF SLAB
MARK R2

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-14 | 14 / 20 | |




| SHIPPING WEIGHTS AND DIMENSIONS OZ1-232 | | | | |
|---|---|---|---|---|
| SECTION | WEIGHT | LENGTH | WIDTH | HEIGHT |
| A | 40,400 | 15'-0" | 11'-11" | 10'-2" |

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

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Wind Velocity: 150/C MPH

Allowable # of Floors: 1

Allowable Floor Load: 400 PSF

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Fire Rating of Exterior Walls: 1 HRS

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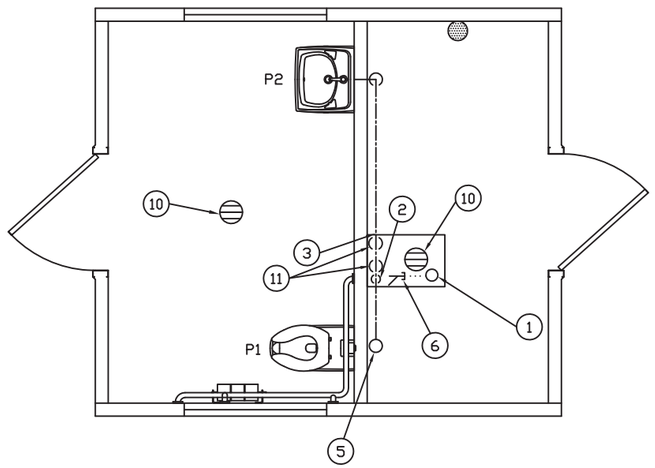
|---|---|---|---|
| SCALE | 1/4"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 48 |

RIGGING DETAILS

DWG NO. OZ 1-15

SHEET 15/20

REV.




PLUMBING FLOOR PLAN

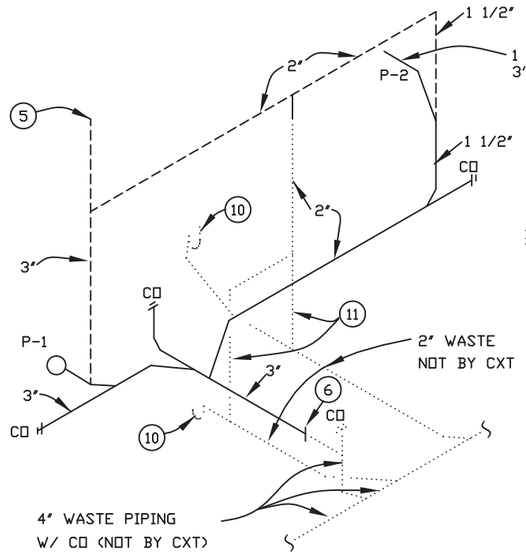
1/4" = 1'-0"

## PIPING LEGEND

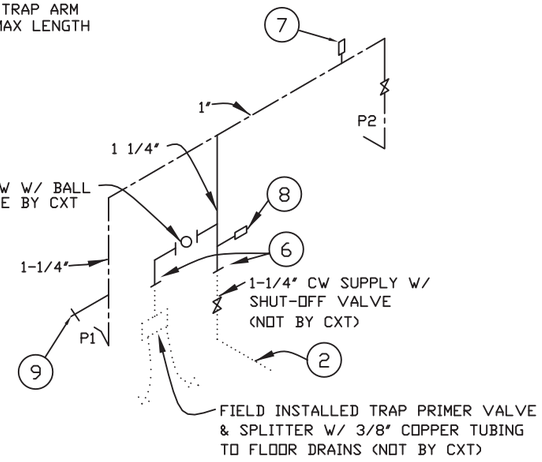
- HOT WATER
- COLD WATER
- VENT
- WASTE
- FIELD INSTALLED (NOT BY CXT)
- SHUT-OFF VALVE

WASTE PIPE:
PVC ASTM D2661, SCHED. 40

PROVIDE BACKFLOW PREVENTER ONLY IF SPECIFICALLY REQUIRED BY LOCAL JURISDICTION




WASTE & VENT RISER DIAGRAM




WATER PIPING DIAGRAM

## WATER PIPE - KEY NOTES

1. 4" WASTE THRU FLOOR, NOT BY CXT. SEE WASTE & VENT DIAGRAM
2. 1-1/4" COLD WATER THRU FLOOR, NOT BY CXT.
3. VENT, CW, & WASTE ALONG WALL SEE WASTE & VENT AND WATER DIAGRAMS.
4. NOT USED.
5. 3" VENT THROUGH ROOF
6. TO THIS POINT BY CXT.
7. ASSE 1010 WATER HAMMER ARRESTOR SIOUX CHIEF HYDRA-RESTOR #654-C OR EQUAL
8. 1/2" AIR QUICK CONNECTION W/ BALL VALVE FOR BLOWING OUT WATER PIPING.
9. 3/4" HOSE BIBB W/ SCREW ON VACUUM BREAKER
10. FLOOR DRAIN, FIELD INSTALLED (NOT BY CXT)
11. 2" VENTS FOR FLOOR DRAIN

## PLUMBING FIXTURE SCHEDULE

| SYM | DESCRIPTION | MANUFACTURER | MODEL # | FLUSH VALVE/FAUCET | TRAP | ACTUATOR | DRAIN | HW | CW | WASTE | VENT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-1 | WATER CLOSET | AMERICAN STANDARD | 2634.101 (W.C.) 5905.100 (W.C. SEAT) | SLOAN ROYAL #952-1.6 L-3 W=4" | - | SLOAN HY33A | - | - | 1-1/4" | 3" | 2" | 1,3 |
| P-2 | LAVATORY | AMERICAN STANDARD | 0356.421 (LAV.) | SYMMONS SLS-7000 | OFFSET 1.5x17GA.CP | | CHROME STRAINER | - | 1/2" | 1-1/2" | 1-1/2" | 2,4 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| P-5 | FLOOR DRAIN | TRAVIS | RM54960 (RESTROOM - QTY 1) | | | | | | | | | 5 |
| | | SIOUX CHIEF | 840-2A (CHASE - QTY 1) | | | | | | | | | |

NOTES:
1. OFFSET FLUSH VALVE TAILPIECE PER ADA, RIGHT OR LEFT HAND, AS REQUIRED. PROVIDE FLUSH VALVE FOR 4" WALL THICKNESS.
2. HAMMER ARRESTOR JRS520-T-C, FLOOR DRAIN S2005A025NBLP, TRAP PRIMER - MIFAB MM5500, DISTR UNIT - MIFAB
3. MOUNT RIM AT 17" ABOVE FLOOR.
4. 1/2X15 COMP ANG LAV BSCR1915AC,
5. TRAP PRIMER- MIFAB MM500, DISTR UNIT- MIFAB

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

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Plan #: 2019-4264
Apprv. By: Ian Henderson
Apprv. Date: 05/20/2019
GA. DCA Approved Third Party
Progressive Engineering Inc.
58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

CXT Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

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CXT Incorporated

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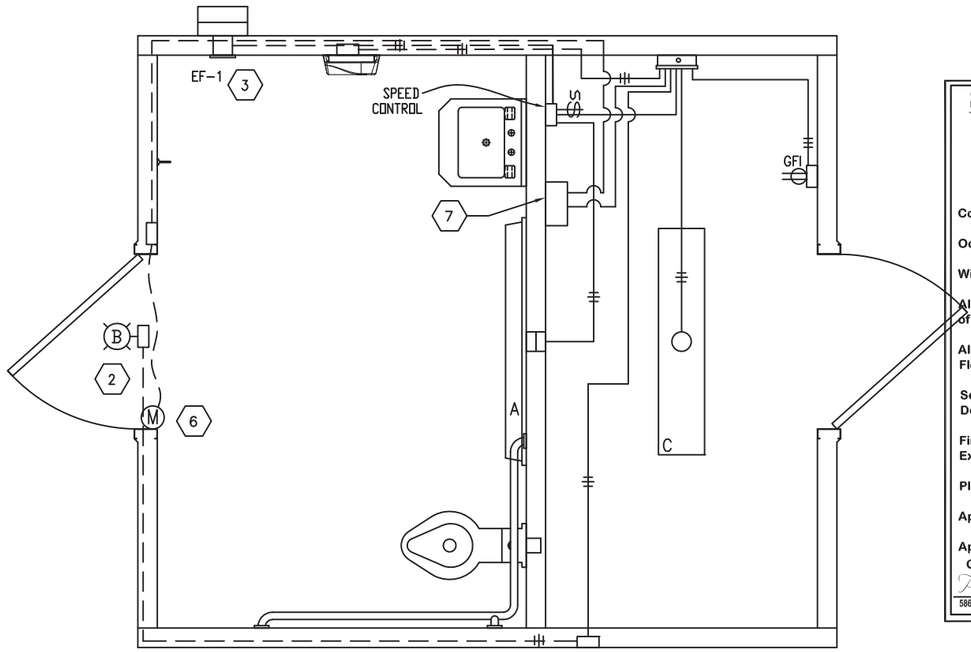
|---|---|---|---|
| SCALE | 1/4"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 48 |

PLUMBING PLAN, DIAGRAMS & SCHEDULES

DWG NO. OZ 1-16
SHEET 16/20
REV.




## ELECTRICAL PLAN

NTS

## KEY NOTES

1. MOTION CONTROLLED INTERIOR LIGHT. WIRE SECOND ISOLATED CONTACT IN SERIES WITH EXHAUST FAN SPEED SWITCH FOR FAN MOTOR CONTROL.
2. EXTERIOR LIGHT TO BE CONTROLLED BY PHOTOCELL.
3. CIRCUIT AS NEEDED FOR THE LOAD OF THE EXHAUST FAN. WIRE THRU SPEED SWITCH (IN CHASE) AND OCCUPANCY SENSOR ISOLATED CONTACT.
4. PROVIDE CIRCUIT BREAKER LOCKOUTS FOR EACH HAND DRYER.
5. NOT USED.
6. TOWNSTEEL ELECTRIFIED MORTISE LOCK, SENTINEL LEVER, 626 FINISH WITH ADA THUMBTURN AND PRIVACY INDICATOR. POWER SUPPLY TO BE ROUTED INSIDE DOOR FRAME AND THROUGH MIDDLE HINGE PER MANUFACTER RECOMMENDATIONS.
7. TME-E-L-A7912P-SENTINEL-26D-ADA: 12V POWER SUPPLY, 24HR ELECTROMECHANICAL TIMER AND 12V BACK UP BATTERY.

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Allowable # of Floors: 1
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## SYMBOLS LEGEND

- (X) NOTE REFERENCE
- COMBINATION SWITCH AND DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE ( x = BREAKER # IF SHOWN)
- GFI DUPLEX RECEPTACLE ( x = BREAKER # IF SHOWN)
- ON / OFF SWITCH
- SPEED SWITCH
- JUNCTION BOX
- RECESSED JUNCTION BOX
- SURFACE MOUNTED CONDUIT, CROSSHATCH OR SLASH AND NUMBER DENOTES WIRES, (ALL #12AWG UNO, UNLESS NOTED) ONE WIRE TO BE GROUND
- CONCEALED CONDUIT
- LOAD CENTER "A"
- WALL MOUNTED FLUORESCENT FIXTURE
- CEILING MOUNTED FLUORESCENT FIXTURE
- HAND DRYER WITH
- HAND DRYER WITH DISCONNECT SWITCH
- WH — WATER HEATER
- OS — OCCUPANCY SENSOR WITH RECESSED JUNCTION BOX
- D — SAFETY DISCONNECT
- (X) — PANEL OR DEVICE AS NOTED
- T — THERMOSTAT
- HEATER

## GENERAL ELECTRICAL NOTES

1. RECESSED JUNCTION BOXES FOR SINGLE DEVICES SHALL HAVE SINGLE GANG MUD RINGS CAST IN CONCRETE WALLS.
2. ALL RECEPTACLES SHALL BE GFCI PROTECTED BY CIRCUIT BREAKERS OR BY OTHER GFCI RECEPTACLES.
3. ALL CONDUIT SHALL BE 1/2" MINIMUM, EXPOSED CONDUIT SHALL BE EMT, RECESSED SHALL BE PVC.

| WIRE SIZE | 1/2" EMT | 3/4" EMT | 1/2" ENT | 3/4" ENT | 1/2" FMC | 3/4" FMC |
|---|---|---|---|---|---|---|
| #14 THHN | 12 | 22 | 11 | 21 | 13 | 22 |
| #12 THHN | 9 | 16 | 8 | 15 | 9 | 16 |
| #10 THHN | 5 | 10 | 5 | 9 | 6 | 10 |

4. INSTALL ALL WIRING IN CONDUIT OR RELATED ENCLOSURES.
5. ALL ELECTRICAL INSTALLATIONS SHALL MEET THE 2017 VERSION OF THE NATIONAL ELECTRICAL CODE.
6. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER, THHN INSULATION UNLESS NOTED OTHERWISE.
7. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.
8. PROVIDE SPEED SWITCH FOR FAN CONTROL LOCATED IN CHASE.
9. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW EXACT LOCATIONS OF DEVICES, REFER TO WALL PANEL AND OTHER DRAWINGS FOR EXACT LOCATIONS OF J-BOXES, ETC.

## PANEL SCHEDULE

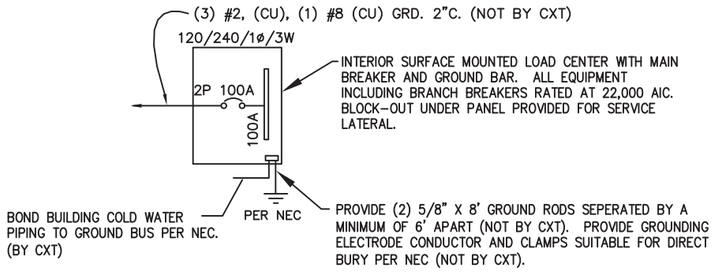
AMP 100
SURFACE MOUNT
PANEL 120/240V, 1P, 3W
TOTAL CONNECTED VA LOAD 1,647
TOTAL CALCULATED VA LOAD 1,936

| CIRCUIT NO. | DESCRIPTION | OCP | LOAD TYPE | (VA) | (A) | PH |
|---|---|---|---|---|---|---|
| 1 | PHOTO CONTROLLED EXTERIOR LIGHT | 1P/20A | C | 14 | 0.2 | A |
| 3 | CHASE LIGHT | 1P/20A | N | 28 | 0.3 | B |
| 5 | ELECTRIFIED DOOR LOCKS & TIME CLOCK | 1P/20A | R | 156 | 1.3 | A |
| 7 | | | | | | B |
| 9 | | | | | | A |
| 11 | | | | | | B |
| 13 | | | | | | A |
| 15 | | | | | | B |
| 17 | | | | | | A |
| 19 | | | | | | B |

| CIRCUIT NO. | DESCRIPTION | OCP | LOAD TYPE | (VA) | (A) |
|---|---|---|---|---|---|
| 2 | CHASE RECEPTACLE | 1P/20A | R | 180 | 1.5 |
| 4 | RESTROOM LIGHT & EXHAUST FAN | 1P/20A | N | 129 | 1.1 |
| 6 | HAND DRYER | 1P/20A | L | 1,140 | 9.5 |
| 8 | | | | | |
| 10 | | | | | |
| 12 | | | | | |
| 14 | | | | | |
| 16 | | | | | |
| 18 | | | | | |
| 20 | | | | | |

NOTE: MAXIMUM ALLOWABLE AIC IS 22K AMPS, PANEL MODIFICATIONS WILL BE REQUIRED (NOT BY CXT) IF TRANSFORMER CAPACITY EXCEEDS 175 KVA.

| LOAD | CONNECTED | CALCULATED |
|---|---|---|
| (C)ONTINUOUS | 14 X 1.25 | 18 VA |
| (R)EC (1ST 10KVA) | 336 X 1.00 | 336 VA |
| (N)ON-CONTINUOUS | 157 X 1.00 | 157 VA |
| (L)ARGEST MOTOR | 1,140 X 1.25 | 1,425 VA |
| TOTAL LOAD | 1,647 VA | 1,936 VA |
| | | 8.1 AMPS |




## ONE-LINE POWER DIAGRAM

NTS

| FIXTURE NUMBER | VOLTAGE | WATTS | DESCRIPTION |
|---|---|---|---|
| A | 120 | 28 | LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8-4-28W HP-4000K-120-CP-WHT-WET-DCC-TX/SD SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROUND LENS, LOW TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENSOR ACTIVATED W/ ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTROL |
| B | 120 | 14 | SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC EXTERIOR, VANDAL RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRISMATIC LENS, BUILT IN PHOTOELECTRIC CONTROL |
| C | 120 | 28 | LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8-4-28W HP-4000K-120-CP-WHT-WET-DCC-TX/SD SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROUND LENS, LOW TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENSOR ACTIVATED |

NOTE : THE SOURCE OF EFFICACY OF EXTERIOR LIGHTING IS TO BE A MINIMUM OF 45 LUMENS PER WATT.

| SYM | MFR | MODEL # | CFM | SONES | VOLTS | AMPS | NTS. |
|---|---|---|---|---|---|---|---|
| EF-1 | FANTECH | RVF-4XL | 193 | 6.0 | 120 | 0.84 | 1,2 |

NOTE 1. WITH SPEED CONTROL MOUNTED IN CHASE.
2. FANS LISTED FOR WET LOCATION, CONTROL VIA OCCUPANCY SENSOR. LOCATE OPEN FACE J-BOX ON EXTERIOR SIDE OF PANEL.

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

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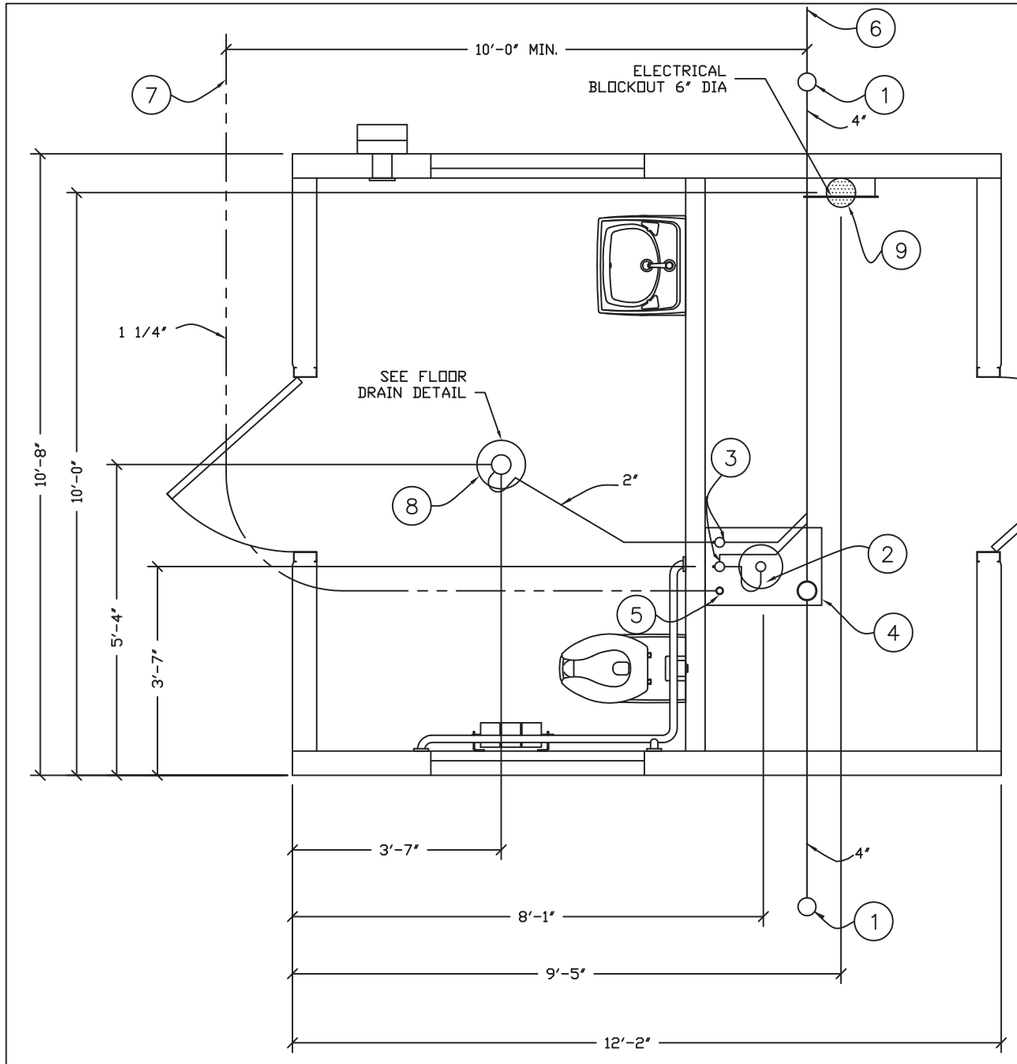
|---|---|---|---|
| SCALE | 3/8"=1'-0" | DATE | 05-07-19 |
| DRAWN | DANA B | FILE NO. | OZI-232 |
| CHECKED | RDW | PLOT | 32 |

ELECTRICAL PLAN, DETAILS & SCHEDULES

DWG NO. OZ 1-17
SHEET 17 / 20
REV.




## BELOW FLOOR PIPING - KEY NOTES

1. 4" CLEAN OUT TO GRADE.
2. 2" FLOOR DRAIN. FIELD INSTALLED W/ TRAP PRIMER SYSTEM IF OPTION IS ACCEPTED, INSTALL AS SHOWN W/ VENT & WASTE PIPE. (24"x16" BLOCKOUT)
3. 2" VENT EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, (1 FOR EA FLOOR DRAIN IF FLOOR DRAIN OPTION ACCEPTED) PROVIDE TEST PLUG. (24"x16" BLOCKOUT)
4. 4" WASTE PIPE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (24"x16" BLOCKOUT)
5. 1 1/4" TYPE K ANNEALED 'SOFT' COPPER WATER SERVICE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST CAP AT END. (24"x16" BLOCKOUT)
6. 30" MIN. BURY, PROVIDE TRACER TAPE.
7. MIN. BURY PER LOCAL REQUIREMENTS TO PROTECT AGAINST FREEZING AND DAMAGE.
8. 2" FLOOR DRAIN. FIELD INSTALLED W/ TRAP PRIMER SYSTEM IF OPTION IS ACCEPTED, INSTALL AS SHOWN W/ VENT & WASTE PIPE. (10" DIA BLOCKOUT)
9. ELECTRICAL STUB UP, (6" DIA BLOCKOUT)

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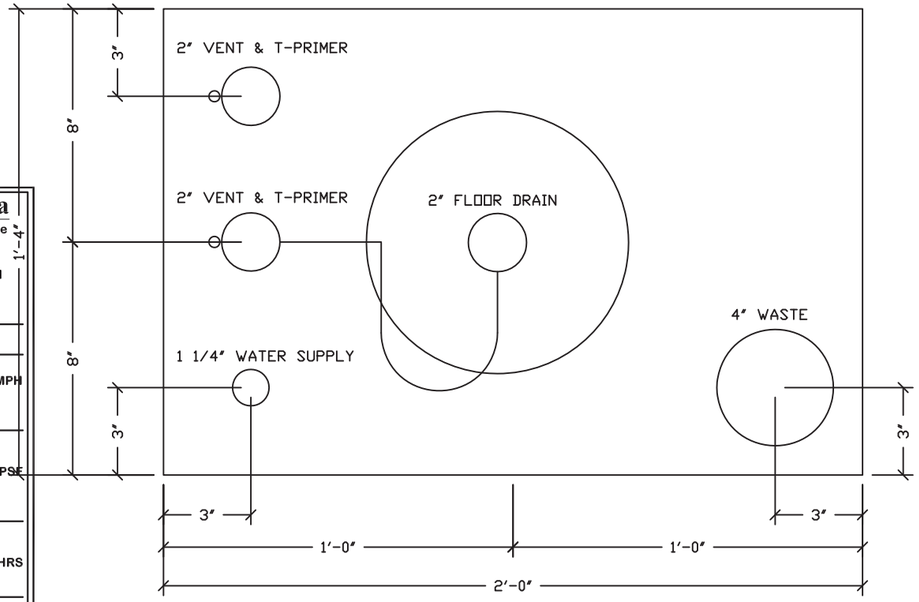



2'-0" x 1'-4" BLOCKOUT DETAIL

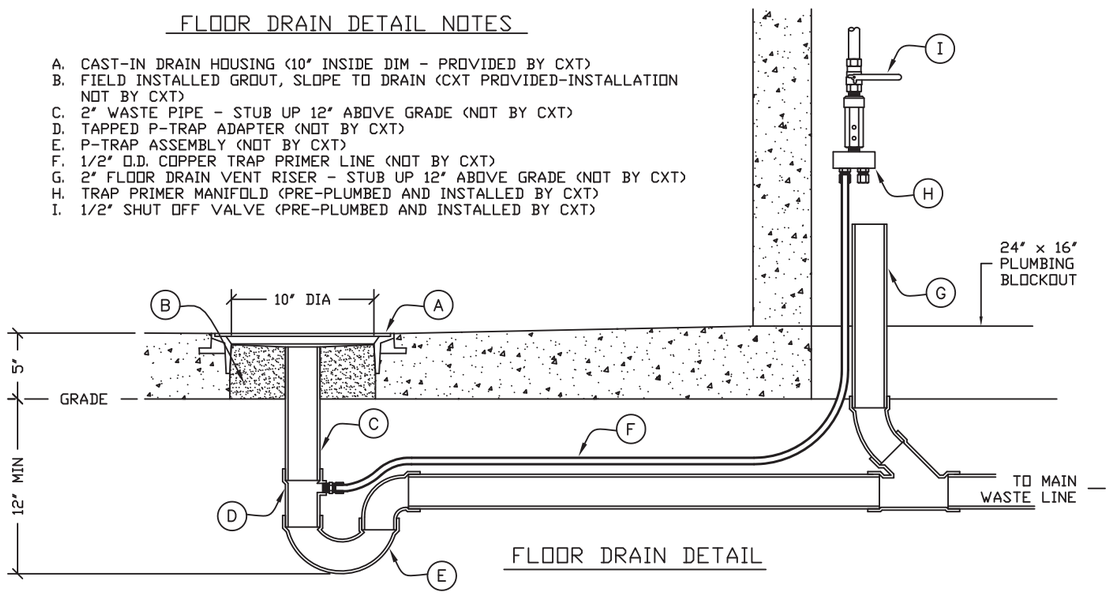
## PIPING LEGEND

- 1-1/4" TYPE "K" ANNEALED "SOFT" COPPER WATER SERVICE
- BELOW FLOOR WASTE PIPING SCH 40 PVC TYPE DWV
- BELOW FLOOR VENT PIPING SCH 40 PVC TYPE DWV

ALL PIPING INDICATED ON THIS SHEET IS NOT BY CXT

## FLOOR DRAIN DETAIL NOTES

A. CAST-IN DRAIN HOUSING (10" INSIDE DIM - PROVIDED BY CXT)
B. FIELD INSTALLED GROUT, SLOPE TO DRAIN (CXT PROVIDED-INSTALLATION NOT BY CXT)
C. 2" WASTE PIPE - STUB UP 12" ABOVE GRADE (NOT BY CXT)
D. TAPPED P-TRAP ADAPTER (NOT BY CXT)
E. P-TRAP ASSEMBLY (NOT BY CXT)
F. 1/2" O.D. COPPER TRAP PRIMER LINE (NOT BY CXT)
G. 2" FLOOR DRAIN VENT RISER - STUB UP 12" ABOVE GRADE (NOT BY CXT)
H. TRAP PRIMER MANIFOLD (PRE-PLUMBED AND INSTALLED BY CXT)
I. 1/2" SHUT OFF VALVE (PRE-PLUMBED AND INSTALLED BY CXT)




FLOOR DRAIN DETAIL

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
OZARK 1
BUILDING NUMBER OZ1-232

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| DRAWN | DANA B | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | 32 |

FLOOR DRAIN BLOCKOUTS & BELOW FLOOR PIPING

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1-18 | 18 / 20 | |

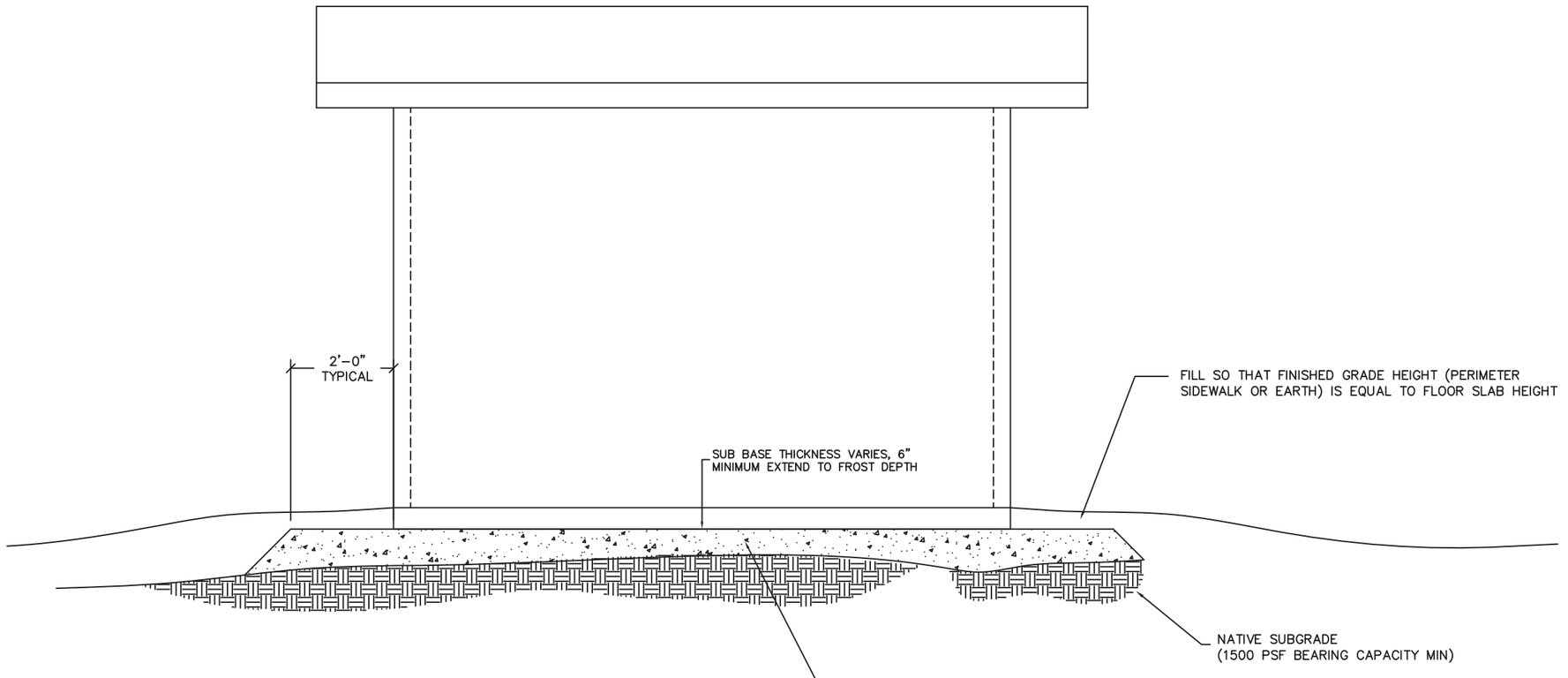
NOTE:

THIS FACTORY ASSEMBLED BUILDING, AS CONSTRUCTED, PROVIDES A RIGID BOX TYPE STRUCTURAL SYSTEM. VERTICAL LOADS ARE TRANSFERRED PRIMARILY THROUGH BEARING WALLS TO THE STRUCTURAL SLAB FLOOR OF THE BUILDING. THE VERTICAL LOADS ARE THEN DISTRIBUTED THROUGH THE REINFORCED CONCRETE FLOOR TO THE PREPARED GRANULAR, NON–FROST SUSCEPTIBLE (NFS) SUB–BASE WHICH DISTRIBUTES THE VERTICAL LOADS IN RELATIVELY UNIFORM FASHION TO THE NATIVE SUB–GRADE. AS WITH MOST CONSTRUCTION, THIS DOES REQUIRE THE NATIVE SUB–GRADE TO BE STRIPPED OF VEGETATION AND TOP SOIL PRIOR TO PLACEMENT OF THE PREPARED GRANULAR SUB–BASE. DUE TO THE INHERENT STIFFNESS OF THE BUILDING, IT WILL REMAIN SAFE AND STRUCTURALLY SOUND IN THE UNLIKELY EVENT OF FREEZING ACTION BELOW THE BUILDING REGARDLESS OF NATURAL FREEZE/ THAW CYCLES ANTICIPATED TO BE ENCOUNTERED IN THE STATE OF GEORGIA.

LATERAL LOADS ARE TRANSFERRED TO THE GROUND THROUGH FRICTIONAL RESISTANCE WITHOUT SLIDING OR SHIFTING BETWEEN THE BUILDING FLOOR SLAB AND THE PREPARED SOIL AND GRAVEL SUB–BASE ON WHICH THE BUILDING RESTS. SEISMIC ANALYSES ARE BASED ON LOADS DETERMINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE USING PARAMETERS, WHICH MEET OR EXCEED THE CODE PRESCRIBED REQUIREMENTS FOR THIS INSTALLATION.

THIS BUILDING AS DESIGNED, RESTING ON A PROPERLY PREPARED GRANULAR SUB–BASE WILL BE SAFE AND STRUCTURALLY SOUND FOR VERTICAL AND LATERAL LOADS AS DISCUSSED ABOVE. A FULL DEPTH FOUNDATION WALL AT THE BUILDING PERIMETER AND AN ANCHORAGE SYSTEM, TYPICAL FOR OTHER TYPES OF BUILDING CONSTRUCTION, ARE NOT REQUIRED FOR THIS BUILDING.

THE "FOUNDATION" FOR THIS STRUCTURE IS ESSENTIALLY THE COMBINATION OF THE COMPACTED SUB–BASE MATERIAL AND THE BUILDING'S REINFORCED SLAB. THE COMBINATION OF THE COMPACTED SUB–BASE MATERIAL AND THE BUILDING'S REINFORCED SLAB NEED TO BE AT LEAST 12" THICK AND THE COMPACTED SUB–BASE MATERIAL SHALL EXTEND BELOW THE LOCAL FROST DEPTH




PRIOR TO PLACEMENT OF BUILDING A PROPERLY PREPARED SUB–BASE SHALL BE PROVIDED. SUB–BASE SHALL BE A MINIMUM OF 6" THICK AND CONSIST OF ¾" MINUS CRUSHED ROCK (ROAD BASE MATERIAL) COMPACTED TO 95% OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557. FINISHED SURFACE OF SUB–BASE SHALL BE FLAT AND LEVEL, WITH A MAXIMUM DEVIATION OF -½", +0" FROM A TRUE HORIZONTAL PLANE. REFER TO BUILDING HANDLING SHEET FOR SUB–BASE REQUIREMENTS DURING BUILDING PLACEMENT. (PREPARED SUB–BASE NOT BY CXT).

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

**State of Georgia**

**These prints comply with the Rules of the Commissioner of Community Affairs 110-2 Industrialized Buildings and adhere to the following:**

Const. Type: V-B

Occupancy: B

Wind Velocity: 150/C MPH

Allowable # of Floors: 1

Allowable Floor Load: 400 PSF

Seismic Design Category: C

Fire Rating of Exterior Walls: 1 HRS

Plan #: 2019-4264

Apprv. By: Ian Henderson

Apprv. Date: 05/20/2019

GA. DCA Approved Third Party

Progressive Engineering Inc.

58640 State Road 15 Goshen, IN 46528 Ph: (574) 533-0337

CXT

**Precast Products**

901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE

OZARK 1

BUILDING NUMBER OZ1–232

NOTICE

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CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | 3/8"=1'–0" | DATE | 05–07–19 |
| DRAWN | DANA B | FILE NO. | OZ1–232 |
| CHECKED | RDW | PLOT | 32 |

FOUNDATION DETAIL

| DWG NO. | SHEET | REV. |
|---|---|---|
| OZ 1–19 | 19 / 20 | |

| WALL PANEL W1 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| PS-2 | 8 |
| PS-10 | 2 |
| R3x114 | 2 |
| R3x96 | 4 |
| R3x35 | 4 |
| R405 | 2 |
| AS-2 | 4 |
| SI-2 | 1 |
| 40 1/8" x 82 1/4" BO | 1 |
| 4x4 J-BOX | 1 |
| ROUND MUD RING | 1 |
| 3"x6"x2" DP BLOCKOUT | 2 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 22.5 (0.83) | 62 |
| APPROXIMATE WEIGHT | |
| 3,375 | |

| WALL PANEL W2 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| AS-2 | 3 |
| PS-2 | 8 |
| PS-10 | 2 |
| R405 | 2 |
| R4x114 | 1 |
| 4x4 E-BOX | 2 |
| LAVATORY BLOCKOUT | 1 |
| B.O. 2" DIA | 1 |
| FLUSH BOWL BLOCKOUT | 1 |
| ROUND MUD RING | 1 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 28.2 (1.04) | 80 |
| APPROXIMATE WEIGHT | |
| 4,230 | |

| WALL PANEL W3 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| PS-2 | 8 |
| PS-10 | 2 |
| R3x114 | 2 |
| R3x96 | 4 |
| R3x35 | 4 |
| R405 | 2 |
| AS-2 | 4 |
| 40 1/8" x 82 1/4" BO | 1 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 22.5 (0.83) | 62 |
| APPROXIMATE WEIGHT | |
| 3,375 | |

| WALL PANEL W4 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 2 |
| R4x140 | 4 |
| R4x92 | 6 |
| MS-6 | 1 |
| R303 | 3 |
| AS-2 | 3 |
| R4x48 | 2 |
| R322 | 2 |
| R3x38 | 2 |
| MS-2 BO | 1 |
| B.O. 4 1/2" DIA | 1 |
| 4x4 J-BOX | 4 |
| SI-2 MOLD | 1 |
| 3" x 8" x 2" DP BLOCKOUT | 1 |
| RECT MUD RING | 1 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 33.8 (1.25) | 95 |
| APPROXIMATE WEIGHT | |
| 5,070 | |

| WALL PANEL W5 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 2 |
| R4x140 | 4 |
| R4x92 | 8 |
| AS-2 | 3 |
| R303 | 3 |
| MS-6 | 1 |
| R322 | 2 |
| R3x38 | 2 |
| MS-2 BO | 1 |
| SI-2 MOLD | 1 |
| 3"x8x2" DP B.O. | 1 |
| 4x4 J-BOX | 3 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 33.8 (1.25) | 95 |
| APPROXIMATE WEIGHT | |
| 5,070 | |

| FLOOR SLAB F1 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| AS-3 | 4 |
| PS-19 | 17 |
| R4x122 | 4 |
| R4x140 | 2 |
| R3x42 | 8 |
| R3x46 | 2 |
| R3x54 | 4 |
| R3x122 | 6 |
| BLOCKOUT 6" DIA | 1 |
| BLOCKOUT 24"x16" | 1 |
| RM54960 F.D. | 1 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 52.6 (1.95) | 252 |
| APPROXIMATE WEIGHT | |
| 7,890 | |

| ROOF SLAB R1 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 4 |
| R4x172 | 4 |
| R303 | 6 |
| R4x18 | 16 |
| FL-847 | 4 |
| BLOCKOUT 5" DIA | 1 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 37.3 (1.38) | 182 |
| APPROXIMATE WEIGHT | |
| 5,595 | |

| ROOF SLAB R2 | |
|---|---|
| EMBEDDED MATERIALS | |
| ITEM | QTY |
| PS-19 | 9 |
| PS-2 | 1 |
| PS-10 | 4 |
| R4x172 | 4 |
| R303 | 6 |
| R4x18 | 16 |
| FL-847 | 4 |
| CU. FT. CONC. | SQ. FT. W.W.F. |
| 37.3 (1.38) | 182 |
| APPROXIMATE WEIGHT | |
| 5,595 | |

GEORGIA REGISTERED No. 028067 PROFESSIONAL ENGINEER WILLIAM RICHARD HEIDEN, III

May 18, 2019

**State of Georgia**

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OZARK 1

BUILDING NUMBER OZ1-232

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CXT Incorporated

| REV. | DESCRIPTION | APPROVAL | DATE |
|---|---|---|---|
| SCALE | NTS | DATE | 05-07-19 |
| DRAWN | 05-07-19 | FILE NO. | OZ1-232 |
| CHECKED | RDW | PLOT | – |

MATERIAL LIST

DWG NO. OZ 1-20

SHEET 20/20

REV.