

ENERGY DESIGN CRITERIA:

NOTE: UNLESS OTHERWISE NOTED, ALL CODE REFERENCES BELOW ARE FROM THE 2009 IECC

CLIMATE ZONES: 2A AS SHOWN IN TABLE 301.1
FOR BUILDINGS WITH OVERALL WINDOWS AND GLAZED DOOR OPENINGS
TOTALING 10% OR LESS OF THE GROSS ABOVE-GRADE WALL AREA.

HEATING DEGREE DAYS: 2110 COOLING DEGREE DAYS: 3146

R-VALUES BETWEEN FRAMING MEMBERS ARE FROM TABLE 502.2
ROOF: ALL WOOD JOIST / TRUSS: R-30
WALL: WOOD FRAMED: R-13
FLOOR: ALL WOOD JOIST / TRUSS: R-15 + R-11

U-FACTOR FOR WINDOWS: DUAL PANE/ LOW-E GLASS = 0.49
SHGC FOR WINDOWS: DUAL PANE/ LOW-E GLASS = 0.25
U-FACTOR FOR DOORS: STEEL DOOR = 0.20

LIGHTING CONTROLS: OCCUPANT SENSOR SWITCHING FOR OFFICE AND / OR CLASSROOM LIGHTING.
PHOTOCELL CONTROLS FOR EXTERIOR LIGHTING.

GENERAL LIGHTING: FLUORESCENT LIGHT WITH T-8 LAMPS & ELECTRONIC BALLAST
EXTERIOR LIGHTING: WALL MOUNTED TWIN TUBE FLUORESCENT LIGHT ON PHOTOCELL

HVAC EFFICIENCY: WALL HUNG ELECTRIC HVAC UNITS: MIN. 9.2 EER
PTAC UNIT - 11.7 EER

SYSTEM CONTROLS: PROGRAMMABLE THERMOSTAT WITH OCCUPANT OVERRIDE PER 503.2.4.1

OUTDOOR AIR VENTILATION RATE OF: 831 CFM PER EQUATION 4-1 AND TABLE 403.3 OF THE 2009 IMC

DUCT INSULATION: WHERE DUCTING IS USED, DUCTS SHALL BE SEPARATED FROM THE
BUILDING EXTERIOR BY A MINIMUM OF R-8 INSULATION.
(NOTE: DUCTING USED BY PALOMAR HAS A MINIMUM R-VALUE OF 5.6, AND
IS CONTAINED WITHIN THE BUILDING ENVELOPE.)

DUCT SEALING: DUCTS ARE TO BE SEALED IN ACCORDANCE WITH 503.2.7

NOTES:

DATA PLATE(S) TO BE INSTALLED ON THE COVER OF THE ELECTRICAL DISTRIBUTION PANEL AS NOTED ON SHEET A-2.

DECALS TO BE INSTALLED ON THE REAR END, ON THE LOWER LEFT-HAND CORNER OF MODULES WITH METAL SIDING.
BUILDINGS WITH SIDINGS WHICH ARE TO BE PAINTED AS A PART OF ROUTINE MAINTENANCE, THE DECALS ARE TO BE
LOCATED ON THE REAR END WALL OF THE MODULE, NEAR THE MATELINE, ABOVE THE SUSPENDED CEILING TILE.

SPRINKLER SYSTEM TO BE TESTED IN ACCORDANCE WITH NFPA 13.

FIRE ALARM SYSTEM TO BE TESTED IN ACCORDANCE WITH NFPA 72.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL

This document is approved pursuant to
the Industrialized Housing and Buildings
Act.

DRA No. 7 IBC X IRC

Date: 4/29/16

DRA Signature: *Suzanne M. Alvarado*



**SPECIAL CONDITIONS
AND / OR LIMITATIONS:**

NOTE:
MATERIALS WHICH EQUAL OR EXCEED THOSE SPECIFIED
MAY BE SUBSTITUTED.

NOTE:
BUILDING IS TO BE LOCATED A MINIMUM OF 10 FT.
FROM PROPERTY LINE OR ASSUMED PROPERTY LINE.

PORTABLE FIRE EXTINGUISHERS TO BE PROVIDED AND INSTALLED
BY OWNER

NOTE:
FIRE ALARM TO BE INSTALLED BY OTHERS.

NOTE:
ACCESSIBLE DRINKING FOUNTAIN WILL BE PROVIDED ON SITE
BY OWNER.

NOTE:
SERVICE SINK TO BE PROVIDED IN ADJACENT BLDG.

NOTE:
BUILDING MUST BE LOCATED WITH IN 500 FT. OF AN EXISTING
BUILDING PROVIDING TOILET FACILITIES CAPABLE OF SERVICING
THE COMBINED OCCUPANT LOAD OF THE EXISTING BUILDING(S)
IN ADDITION TO THIS BUILDING.

NOTE:
BUILDING IS TO BE PROVIDED WITH AN AUTOMATIC
SPRINKLER SYSTEM DESIGNED AND INSTALLED BY A
CONTRACTOR LICENSED BY THE :
TEXAS DEPTMEN OF INSURANCE:

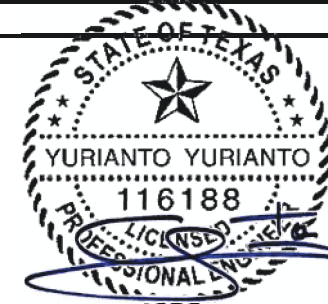
ACCESSIBILITY REQUIREMENTS:

NOTE:
HANDICAP ACCESSIBLE RAMP TO BE INSTALLED
BY OTHERS IN ACCORDANCE WITH THE A.D.A.
GUIDELINES.

DESIGN CRITERIA:

CODES: 2009 IBC
2009 IPC
2009 IMC
2011 NEC

2009 IECC
2012 TAS



OCCUPANCY CLASSIFICATION: B 4/21/16
OCCUPANCY CATEGORY: II
CONSTRUCTION TYPE: V-B
APPLIANCE FUEL TYPE: NONE

DESIGN LOADS:

ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 50 PSF
CONCENTRATED FLOOR LOAD: 2000 LBS

GROUND SNOW LOAD: 5 PSF
ROOF SNOW LOAD: 5 PSF
3 SECOND GUST WIND SPEED: 90 MPH
EXPOSURE: C

SEISMIC DESIGN CATEGORY: A
BUILDING AREA: 7175 S.F.
OCCUPANT LOAD: 80
OCCUPANT AGE GROUP: ADULT 18+ YEARS

DRAWING INDEX: SHEET

| | |
|------------------------------|--------|
| COVER SHEET / SPECIFICATIONS | A1-1 |
| FLOOR PLAN | A1-2 |
| DOOR & WINDOW SCHEDULES | A1-2.1 |
| EXTERIOR ELEVATIONS | A1-3 |
| CROSS-SECTION | A1-4 |
| INTERIOR ELEVATIONS | A1-5 |
| BLOCKING & TIE-DOWN LAYOUT | S1-1 |
| CHASSIS LAYOUT | S1-2 |
| FLOOR FRAMING LAYOUT | S1-3 |
| ROOF FRAMING LAYOUT | S1-4 |
| RAFTER DETAILS | S1-5 |
| RIDGE BEAM CONSTRUCTION | S1-6 |
| NOT USED | M1-1 |
| NOT USED | M1-2 |
| CEILING GRID / HVAC LAYOUT | M1-3 |
| LIGHTING SCHEMATIC | E1-1 |
| POWER DISTRIBUTION SCHEMATIC | E1-2 |
| ELECTRICAL LOAD CALCULATIONS | E1-3 |
| ALARM SYSTEM LAYOUT | E1-4 |

PROTECTION BUILDING

S/N:

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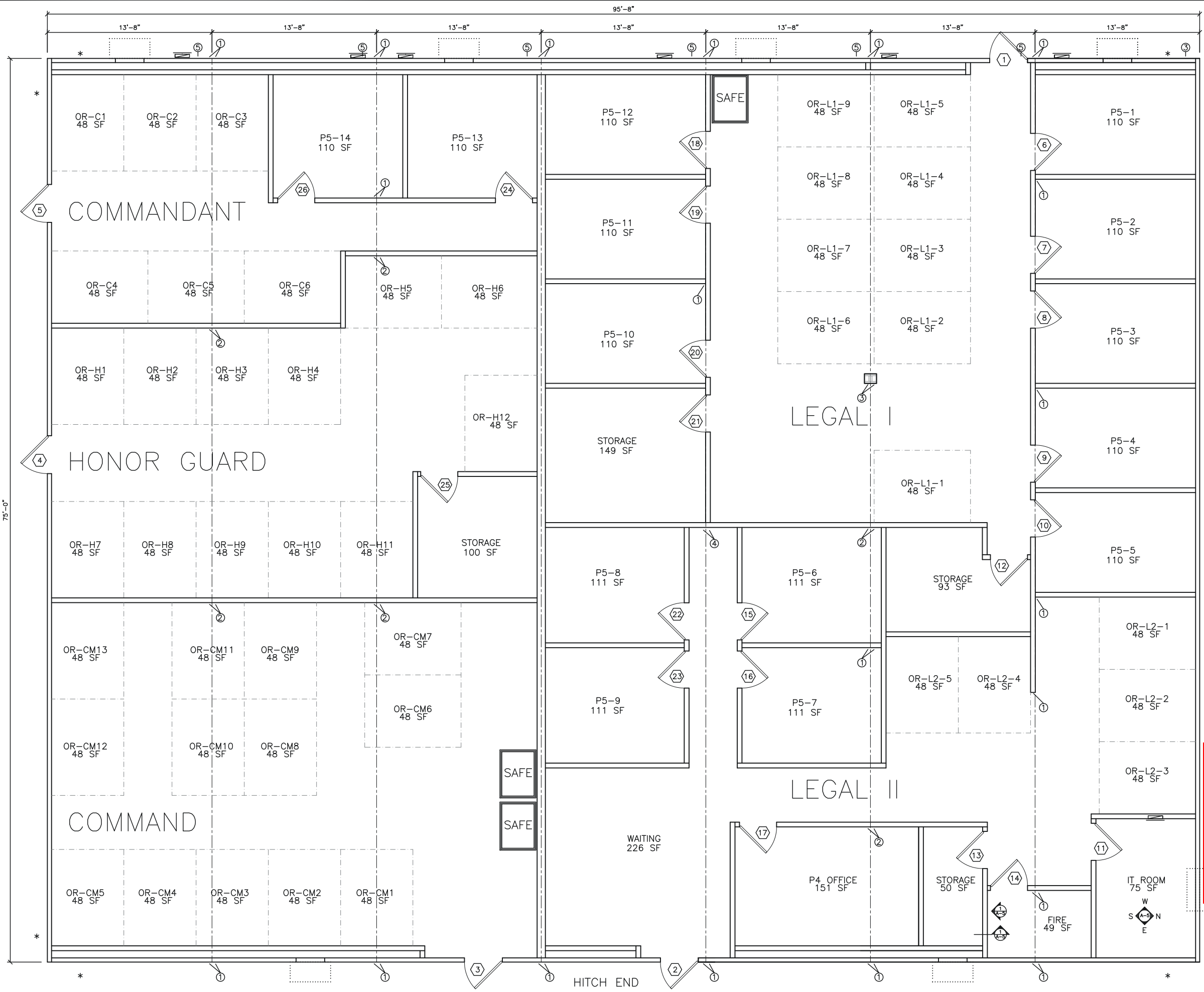
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DATE: 3/31/16
SCALE: N.T.S.
PLOT SCALE: N.T.S.
DRAWN BY: SGD
CHECK BY:

COVER SHEET / SPECIFICATIONS
PROTECTION BUILDING
FT. HOOD, TEXAS
Dwg No. 7596 PROTECT
S/N:

SHEET No.

A1-1



- * - DENOTES SHEAR WALL LOCATION
- ① - DENOTES 3-EA. 2x4's AND 1-EA. 3" WIDE x 26ga. STRAP AT MATE-LINE FASTENED W/ 11 - 1 1/2" x 0.148 (10d) NAILS EACH END OF EACH STRAP.
- ② - DENOTES 3-EA. 2x4's AND 1-EA. SIMPSON MSTC28 STRAP AT MATE-LINE FASTENED W/ 18 - 3" x 0.148 (10d) NAILS EACH END OF EACH STRAP.
- ③ - DENOTES 3-EA. 2x6's AND 1-EA. SIMPSON MSTC28 STRAP AT MATE-LINE FASTENED W/ 18 - 3" x 0.148 (10d) NAILS EACH END OF EACH STRAP.
- ④ - DENOTES 4-EA. 2x4's AND 1-EA. SIMPSON MSTC28 STRAP AT MATE-LINE FASTENED W/ 18 - 3" x 0.148 (10d) NAILS EACH END OF EACH STRAP.
- ⑤ - DENOTES TDLR LABEL LOCATION

Texas Industrialized Building Code Council
 IBC IRC
 Approval Date: 4/29/16
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① **FLOOR PLAN**
 scale: 1/8" = 1'-0"

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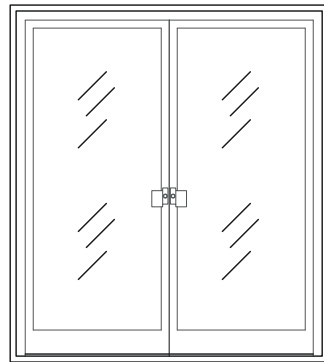
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| PROTECTION BUILDING | FT. HOOD, TEXAS |
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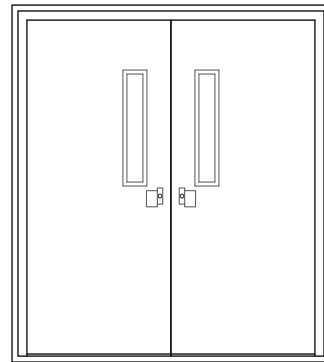
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EXTERIOR DOORS

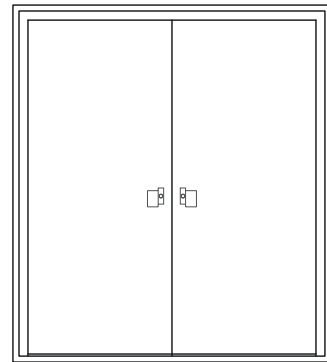
INTERIOR DOORS



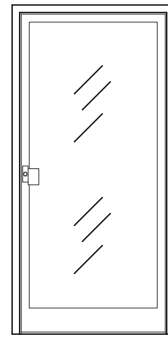
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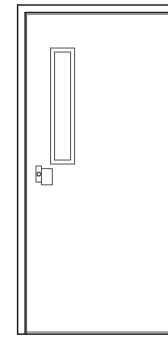
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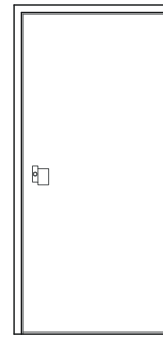
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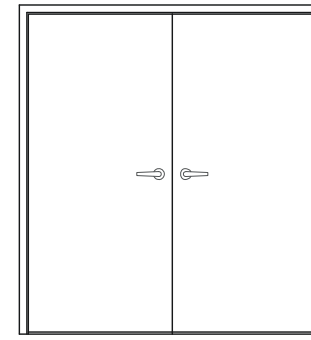
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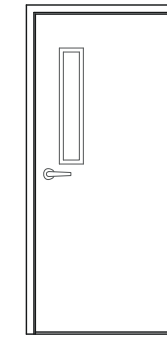
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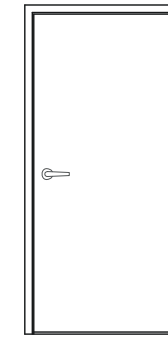
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I

| DOOR SCHEDULE | | | | | | | | | | | |
|---------------|-------|---------|---------------|---------------|-----------------|---------------|---------|-----------------------|---------------------------|---------------|--------|
| NUMBER | STYLE | SIZE | FRAME | FINISH | DOOR | FINISH | SPECIAL | HARDWARE | KEYING | GLAZING | NUMBER |
| 1 | E | 3/0x6/8 | KD 16ga HM | BRONZE | 18ga STEEL | PAINTED | NONE | PULL / PANIC / CLOSER | KEYED TO LEGAL I AREA | 6x27 TEMPERED | 1 |
| 2 | E | 3/0x6/8 | KD 16ga HM | PAINTED | 18ga STEEL | PAINTED | NONE | PULL / PANIC / CLOSER | KEYED TO LEGAL II AREA | 6x27 TEMPERED | 2 |
| 3 | E | 3/0x6/8 | KD 16ga HM | PAINTED | 18ga STEEL | PAINTED | NONE | PULL / PANIC / CLOSER | KEYED TO COMMANDANT AREA | 6x27 TEMPERED | 3 |
| 4 | E | 3/0x6/8 | KD 16ga HM | PAINTED | 18ga STEEL | PAINTED | NONE | PULL / PANIC / CLOSER | KEYED TO HONOR GUARD AREA | 6x27 TEMPERED | 4 |
| 5 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | PULL / PANIC / CLOSER | KEYED TO COMMANDANT AREA | 6x27 TEMPERED | 5 |
| 6 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 6 |
| 7 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 7 |
| 8 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 8 |
| 9 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 9 |
| 10 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 10 |
| 11 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 11 |
| 12 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 12 |
| 13 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 13 |
| 14 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 14 |
| 15 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 15 |
| 16 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 16 |
| 17 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 17 |
| 18 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 18 |
| 19 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 19 |
| 20 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 20 |
| 21 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL I AREA | NONE | 21 |
| 22 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 22 |
| 23 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO LEGAL II AREA | NONE | 23 |
| 24 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO COMMANDANT AREA | NONE | 24 |
| 25 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO HONOR GUARD AREA | NONE | 25 |
| 26 | I | 3/0x6/8 | KD 18ga STEEL | PF BRONZETONE | SOLID CORE WOOD | PREFIN. BIRCH | NONE | LEVER / KEYED | KEYED TO COMMANDANT AREA | NONE | 26 |



(Structural Aspects Only)

Texas Industrialized Building Code Council
 IBC IRC
 Approval Date: 4/29/16
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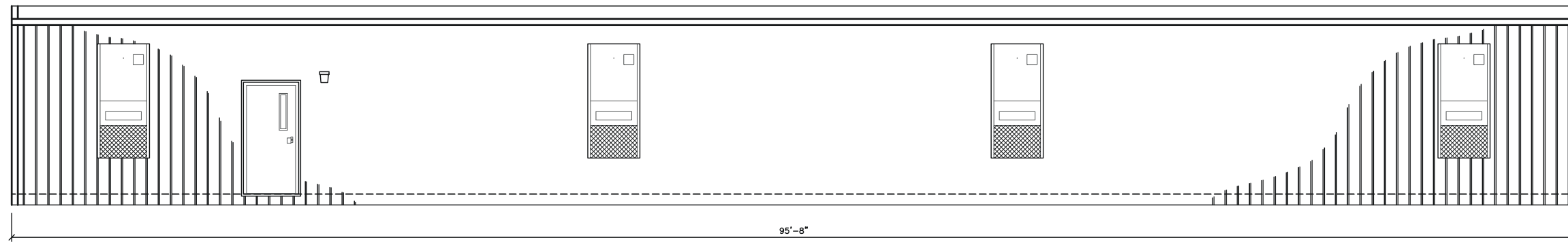
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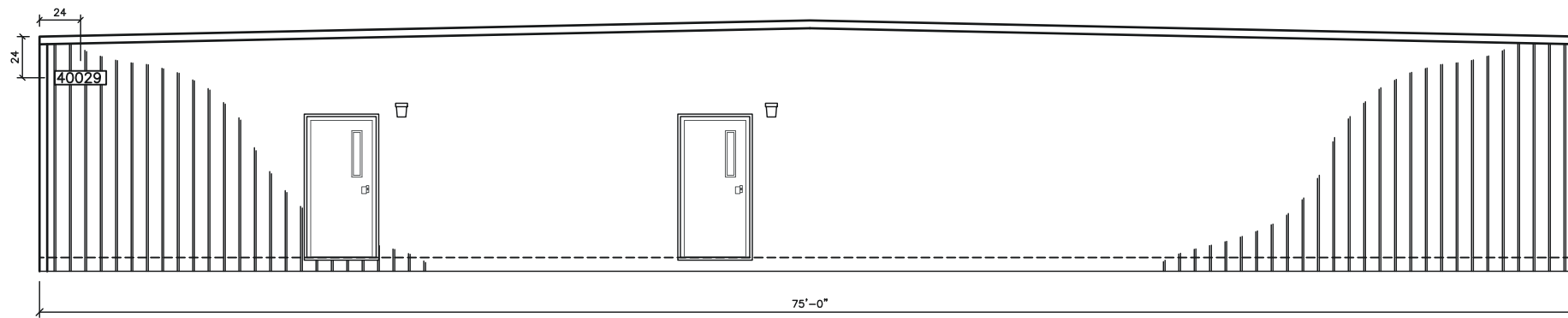
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PROTECTION BUILDING FT. HOOD, TEXAS SCHEDULES
 FILE: 7596 PROTECT
 SERIAL #: 0000

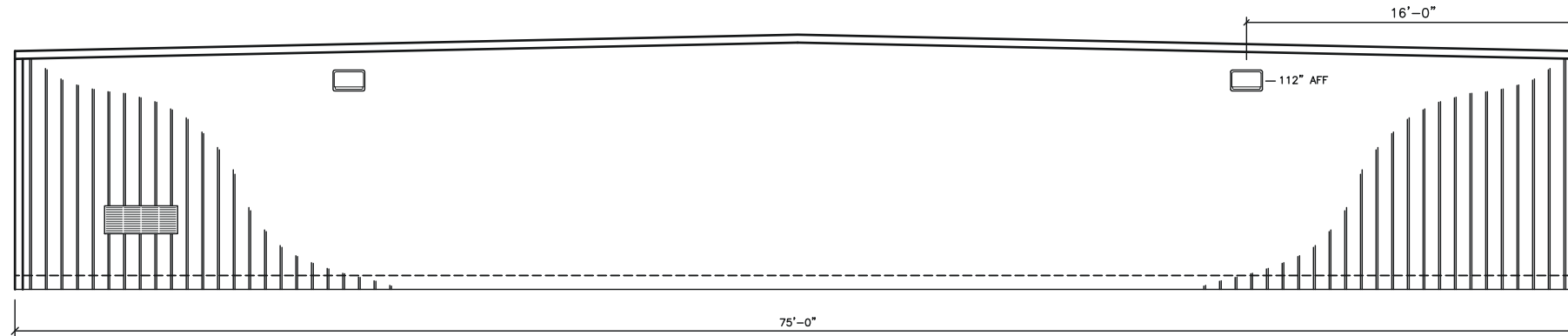
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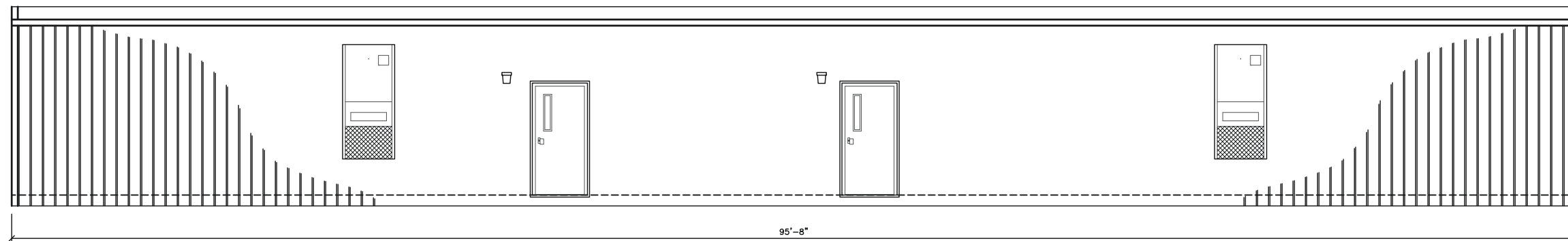
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2 SOUTH ELEVATION
scale: 1/8" = 1'-0"



1 NORTH ELEVATION
scale: 1/8" = 1'-0"



3 EAST ELEVATION
scale: 1/8" = 1'-0"

BUILDING IDENTIFICATION SIGNAGE NOTES:
 1) SIGN TO BE 8" HIGH x 30" WIDE
 2) LETTERS / NUMBERS TO BE 7" TALL
 3) LETTERS / NUMBERS TO BE HELVETICA FONT
 4) SIGN TO BE WHITE METAL WITH RED LETTERS / NUMBERS
 5) MOUNT SIGN ON SOUTHWEST CORNER OF SOUTH SIDE
 6) MOUNT SIGN 24" DOWN FROM EAVE, 24" IN FROM CORNER
 7) INSTALL ONE SIGN PER BUILDING

NOTES:
 1) STEEL SIDING PANELS ARE MIN. 0.0150" THICK BASE METAL CONFORMING TO TABLE 1405.2 OF THE 2009 IBC.
 2) THERMOSET SINGLE-PLY MEMBRANE ROOF CONFORMING TO SECTION 1507.12.

Texas Industrialized Building Code Council
 IBC IRC
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 DENTON, TEXAS 76115
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PROTECTION BUILDING
 FT. HOOD, TEXAS
 EXTERIOR ELEVATIONS
 FILE: 7596 PROTECT
 SERIAL #: 0000

SHEET No.
A1-3

- ① CMU BLOCK PIER ON 9" THICK CONCRETE SLAB
- ② M12x11.8 FRAME RAILS CONFORMING TO ASTM A529-50
- ③ WOVEN POLYETHYLENE BOTTOM BOARD
- ④ SKIRTING INSTALLED ON SITE AFTER UNIT ASSEMBLY
- ⑤ 2-2x8 #3 SYP MIN. FLOOR RIM JOISTS
- ⑥ 2x8 # 2 SYP MIN. FLOOR JOISTS AT 16"o.c.
- ⑦ R-15 + R-11 INSULATION IN FLOOR CAVITY
- ⑧ 3/4" T&G ADVANTECH DECKING
- ⑨ VINYL COMPOSITION FLOOR TILE
- ⑩ SIDEWALL STRAPPED TO FLOOR WITH 1 1/2" x 30ga GALV. STRAPS AT 48"o.c. FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP
- ⑪ 2x4 #3 SYP MIN. BOTTOM PLATE
- ⑫ R-13 INSULATION IN EXTERIOR WALLS
- ⑬ 7/16" RATED SHEATHING OSB UNDER A WEATHER-RESISTIVE BARRIER CONFORMING TO 1404.2 OF THE 2009 IBC FASTENED WITH 8d NAILS AT 6"o.c. AT EDGES, 12"o.c. IN THE FIELD
- ⑭ 2x4 #2 SYP MIN. STUDS AT 16"o.c.
- ⑮ STEEL SIDING PANELS COFORMING TO TABLE 1405.2 OF THE 2009 IBC
- ⑯ R-11 INSULATION IN INTERIOR WALLS
- ⑰ 2x4 #2 SYP MIN. AT 16"o.c. INTERIOR WALLS
- ⑱ 2-2x4 #3 SYP MIN. EXTERIOR WALL TOP PLATES
- ⑲ VINYL CLAD 5/8" TYPE 'X' GYPSUM WALLBOARD.
- ⑳ SUSPENDED GRID ACOUSTIC CEILING
- ㉑ POLY NETTING ON BOTTOM OF RAFTERS. INSTALL METAL MESH TO 9'-0" FROM EAVE END (OVERLAY).
- ㉒ 2-2x4 #3 SYP MIN. INTERIOR WALL TOP PLATES

- ㉓ ROOF STRAPPED TO SIDEWALL WITH 1 1/2" x 30ga GALV. STRAPS AT 48"o.c. FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP
- ㉔ 2x10 #2 SYP MIN. ROOF RIM JOIST
- ㉕ R-30 INSULATION IN RAFTER CAVITY
- ㉖ 2x10 #2 SYP MIN RAFTERS AT 24"o.c.
- ㉗ FOUR LAYER SOLID PLYWOOD RIDGE BEAM, EACH LAYER OF 3/4", 5-LAYER, 5-PLY GROUP 1 SPECIES PLYWOOD. BEAM IS CONSTRUCTED PER THE APA "DESIGN AND FABRICATION OF ALL-PLYWOOD BEAMS" SUPPLEMENT 5
- ㉘ RAFTERS STRAPPED TO RIDGE BEAM WITH 1 1/2" x 30ga STRAP FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP.
- ㉙ 5/8" FRC, CLASS "C" RATED SHEATHING, FASTENED WITH 8d NAILS AT 4"o.c. EDGES AND 8"o.c. FIELD
- ㉚ THERMOSET SINGLE-PLY MEMBRANE ROOF COMPLYING WITH 2009 IBC 1507.12. (ESR 1463)
- ㉛ 2x4 LEDGER FASTENED TO RIDGE BEAM W/3-16d NAILS EACH RAFTER LOCATION OR SIMPSON MMLU-26 JOIST HANGER FASTENED WITH 4-1 1/2" x 8d NAILS TO BEAM AND 2-1 1/2" x 8d NAILS TO RAFTER

NOTES:

1. CRAWL SPACE TO BE VENTILATED IN ACCORDANCE WITH 2009 INTERNATIONAL BUILDING CODE SECT. 1203.3.2. INSTALL SO AS TO PROVIDE CROSS-VENTILATION OF CRAWL SPACE. INSTALL MIN. 18" x 24" ACCESS PANEL IN SKIRTING.
2. BLOCK HEIGHTS SHOWN ARE TYPICAL. ANY BLOCK STACKS, OTHER THAN AT MATELINES, REQUIRING MORE THAN THREE 8" x 8" x 16" BLOCKS MUST BE DOUBLED. THIS DOES NOT CHANGE ANCHORING LOCATIONS OR QUANTITIES.
3. FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS) HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING. FRAME PAINT IS EMULSION BASE PAINT. OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN. OUTRIGGER SIZES: 11'-10" FLOOR - 7" x 16" OUTRIGGER
4. METAL ROOF AND WALL PANELS TO BE FASTENED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE APPROPRIATE WIND SPEED FOR THE BUILDINGS INSTALLATION LOCATION (SEE SHEET A-1).



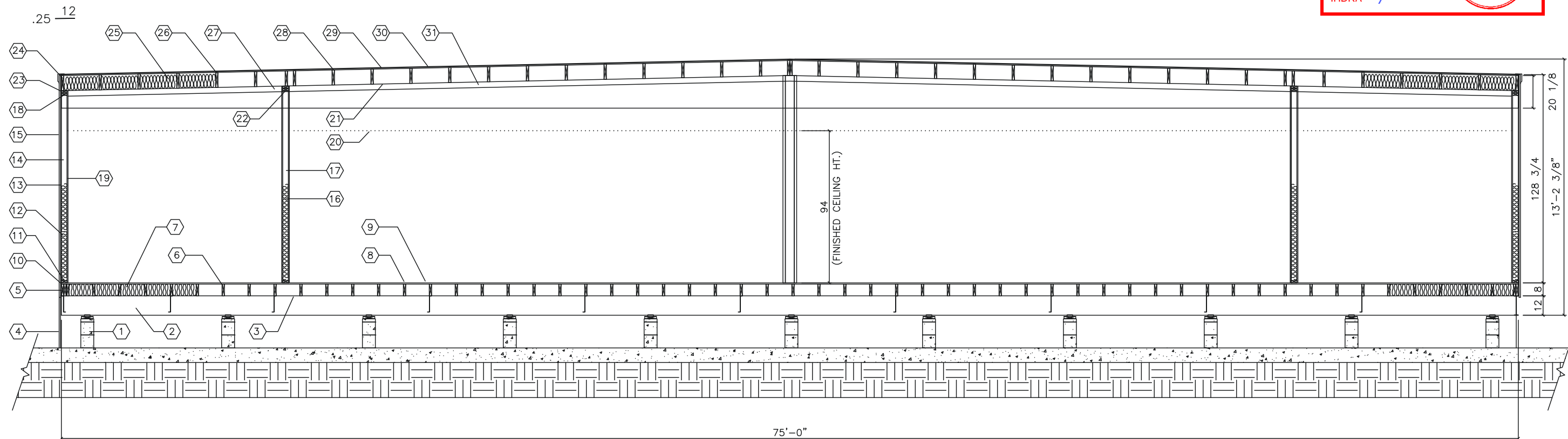
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Approval Date:
4/29/16

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PFS CORPORATION

IHdra- 7



PRODUCTION HEIGHT: 13'-9"
TRANSPORTATION HEIGHT: 14'-11"

1 CROSS SECTION
scale: 1/4" = 1'-0"

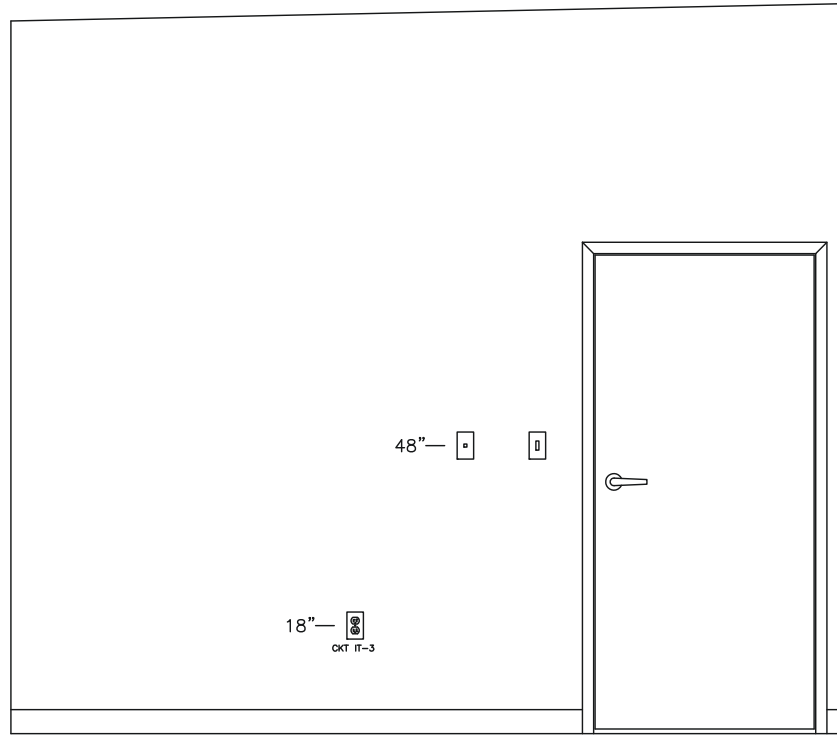
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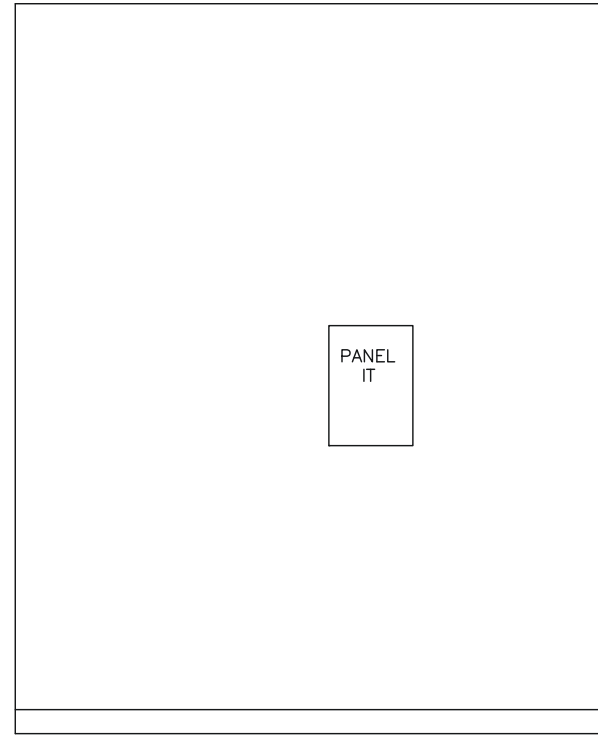
DATE: 12/29/2015
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 PLOT SCALE: 1:1
 DRAWN BY: SGD
 CHECKED BY:

PROTECTION BUILDING
 FT. HOOD, TEXAS
 CROSS SECTION
 FILE: 7596 PROTECT
 SERIAL #: 0000

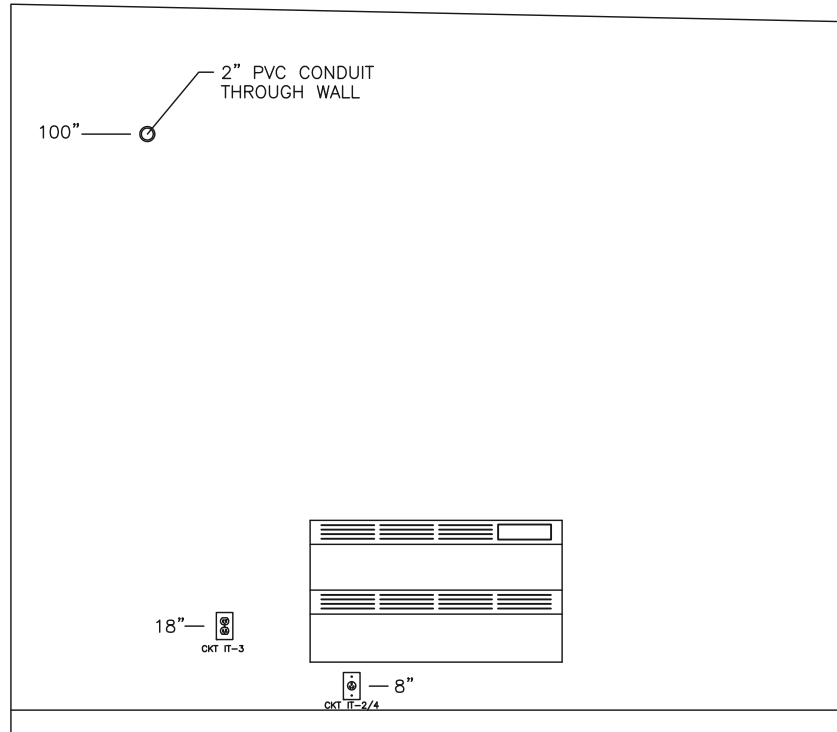
SHEET No.
A1-4



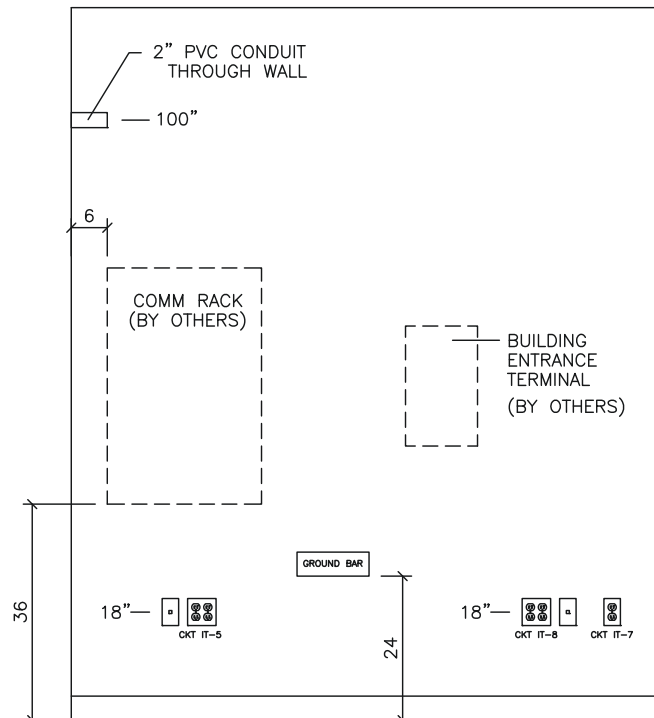
IT ROOM - SOUTH



IT ROOM - WEST



IT ROOM - NORTH



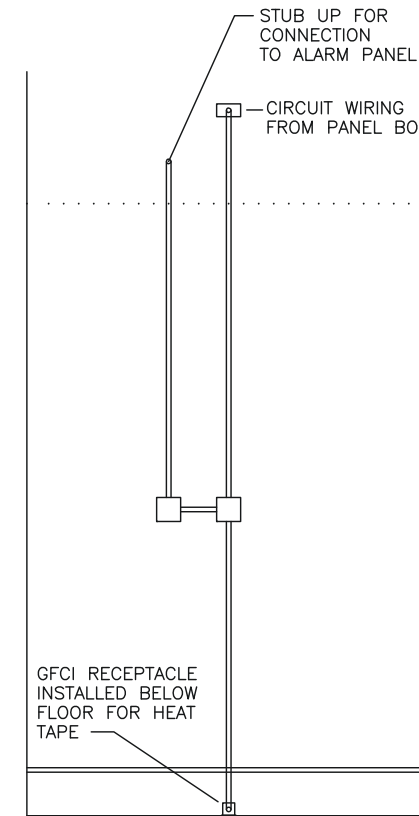
IT ROOM - EAST

REFERENCE DETAIL 1 ON SHEET T500 FOR TELECOMMUNICATION RACK WALL DETAIL



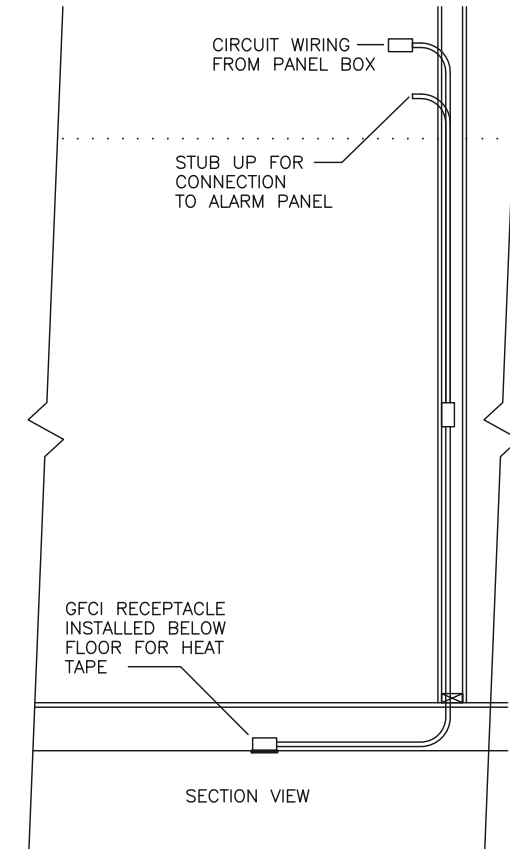
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ELEVATION VIEW

1 FIRE RISER ROOM - SOUTH WALL



SECTION VIEW

2 FIRE RISER ROOM - SOUTH WALL

1 INTERIOR ELEVATIONS
 scale: 3/8" = 1'-0"

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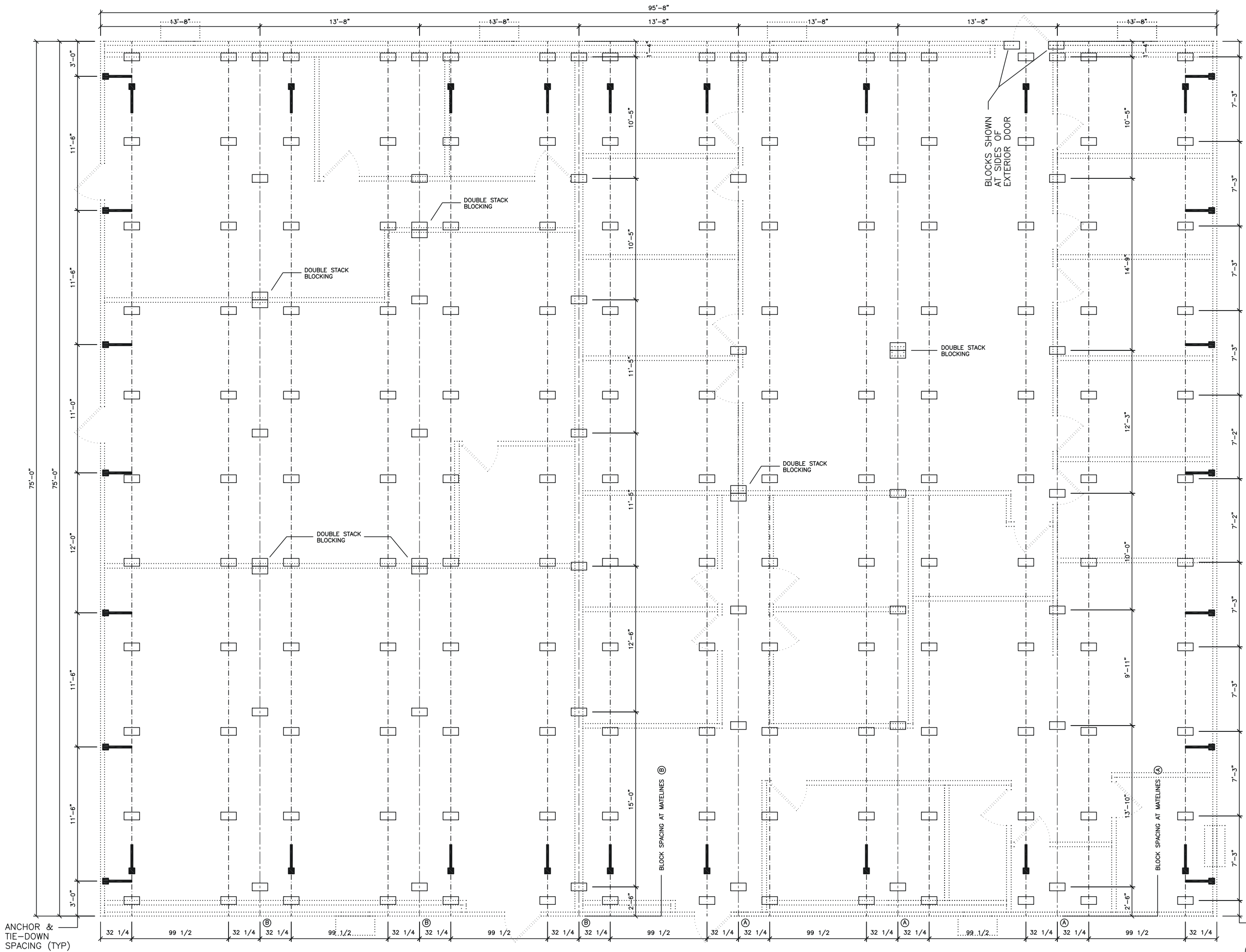
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DATE: 04/08/2016
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 PLOT SCALE: 1:1
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 INTERIOR ELEVATIONS
 FILE: 7596 PROTECT
 SERIAL #: 0000

SHEET No.
A1-5



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NOTES:

- BLOCK SPACING MAY VARY DUE TO AXLE HANGERS OR OTHER STRUCTURAL OBSTRUCTIONS.
- BUILDING IS TO BE SET ON 9" CONCRETE SLAB. BASE PADS ARE NOT REQUIRED.
- ADD BLOCKS AT SIDES OF DOOR AS NECESSARY FOR DOOR ALIGNMENT.
- SINGLE BLOCK STACKS ARE LIMITED TO THREE BLOCKS HIGH. ANY BLOCK STACK REQUIRING MORE THAN THREE 8" x 8" x 16" BLOCKS MUST BE DOUBLED AND CROSS-STACKED. THIS DOES NOT CHANGE ANCHORING LOCATIONS OR QUANTITIES.



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DATE: 12/30/2015
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 PLOT SCALE: 1:1
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PROTECTION BUILDING
 FT. HOOD, TEXAS
 BLOCKING & TIE-DOWN LAYOUT
 FILE: 7596 PROTECT
 SERIAL #: 0000

SHEET No.
S1-1

1 BLOCKING & TIE-DOWN LAYOUT
 scale: 1/8" = 1'-0"

ANCHOR & TIE-DOWN SPACING (TYP)

BLOCK SPACING AT I-BEAMS (TYP)

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Approval Date:
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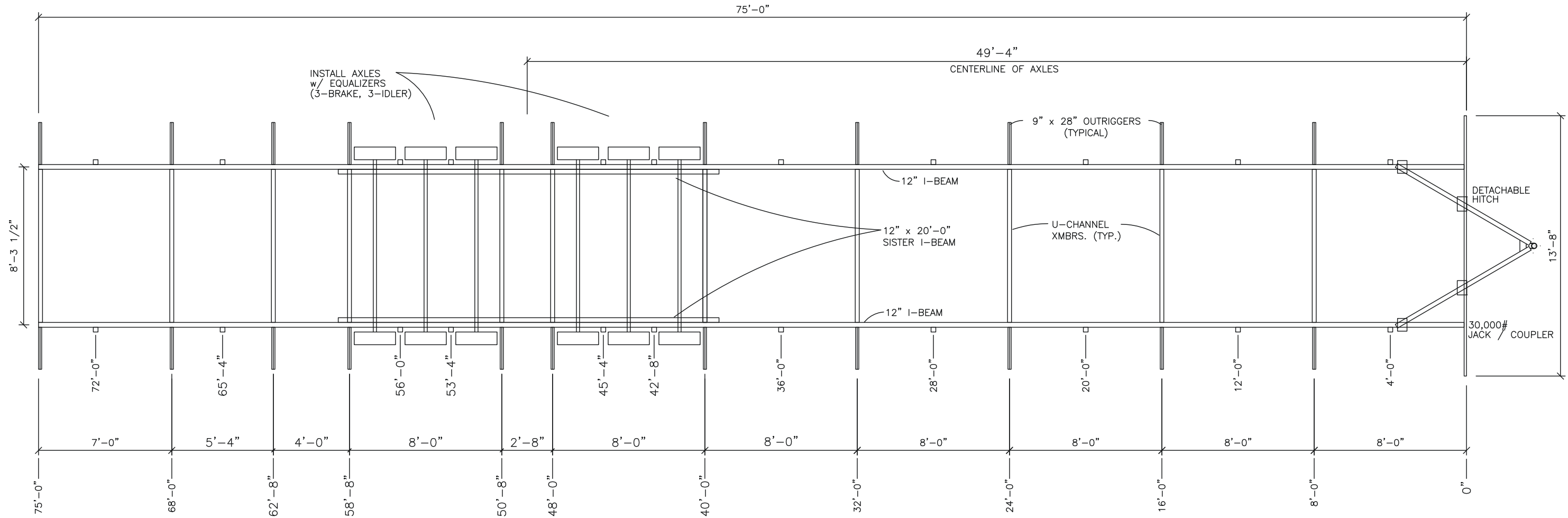
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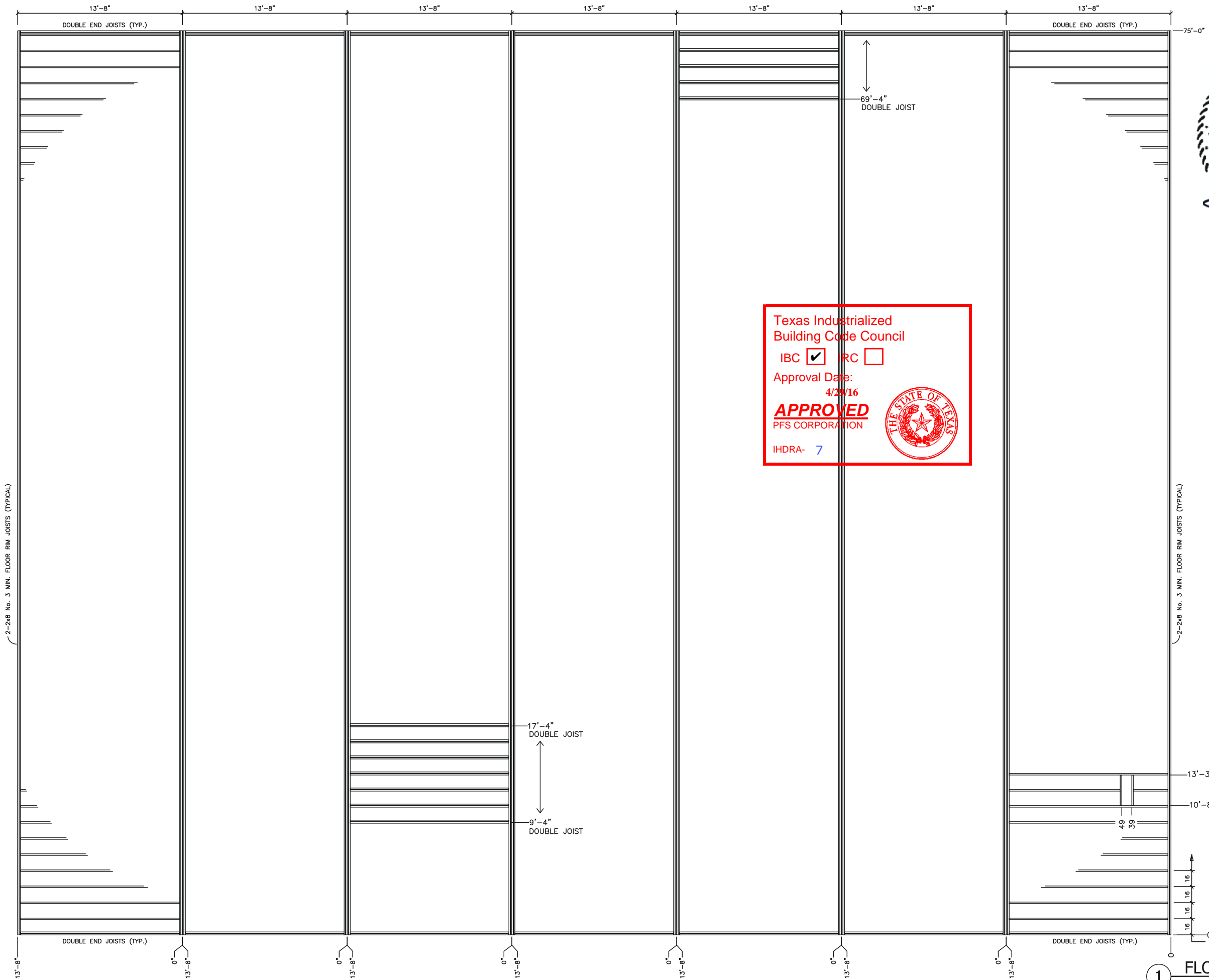


NOTES:
FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS)
HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED
TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING
FRAME PAINT IS EMULSION BASED
OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN.

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| DATE: | 02/22/2016 |
| SCALE: | 3/16" = 1'-0" |
| PLOT SCALE: | 1:1 |
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PROTECTION BUILDING
FT. HOOD, TEXAS
CHASSIS LAYOUT
FILE: 7596 PROTECT
SERIAL #: 0000



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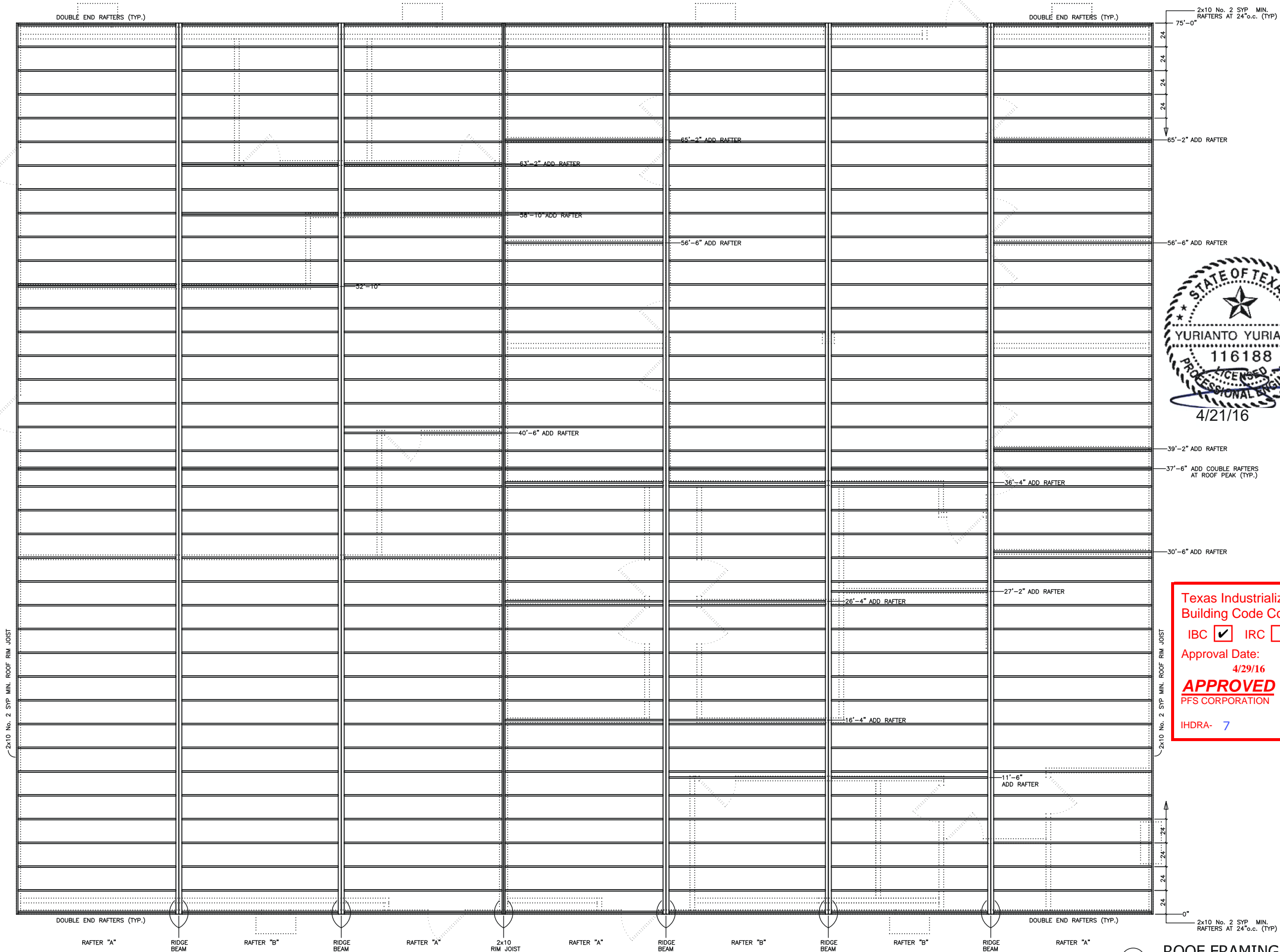
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| DATE: | 02/22/2016 |
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PROTECTION BUILDING
 FT. HOOD, TEXAS
 FLOOR FRAMING LAYOUT
 FILE: 7596 PROTECT
 SERIAL #: 0000

SHEET No.
S1-3

1 FLOOR FRAMING LAYOUT
 scale: 1/8" = 1'-0"



2x10 No. 2 SYP MIN. ROOF RIM JOIST

2x10 No. 2 SYP MIN. RAFTERS AT 24" o.c. (TYP.)

75'-0" RAFTERS AT 24" o.c. (TYP.)

65'-2" ADD RAFTER

56'-6" ADD RAFTER

40'-6" ADD RAFTER

39'-2" ADD RAFTER

37'-6" ADD COUBLE RAFTERS AT ROOF PEAK (TYP.)

36'-4" ADD RAFTER

30'-6" ADD RAFTER

27'-2" ADD RAFTER

26'-4" ADD RAFTER

16'-4" ADD RAFTER

11'-6" ADD RAFTER

2x10 No. 2 SYP MIN. ROOF RIM JOIST

2x10 No. 2 SYP MIN. RAFTERS AT 24" o.c. (TYP.)

DOUBLE END RAFTERS (TYP.)

DOUBLE END RAFTERS (TYP.)

DOUBLE END RAFTERS (TYP.)

DOUBLE END RAFTERS (TYP.)

RAFTERS "A" RIDGE BEAM RAFTERS "B" RIDGE BEAM RAFTERS "A" 2x10 RIM JOIST RAFTERS "A" RIDGE BEAM RAFTERS "B" RIDGE BEAM RAFTERS "B" RIDGE BEAM RAFTERS "A"



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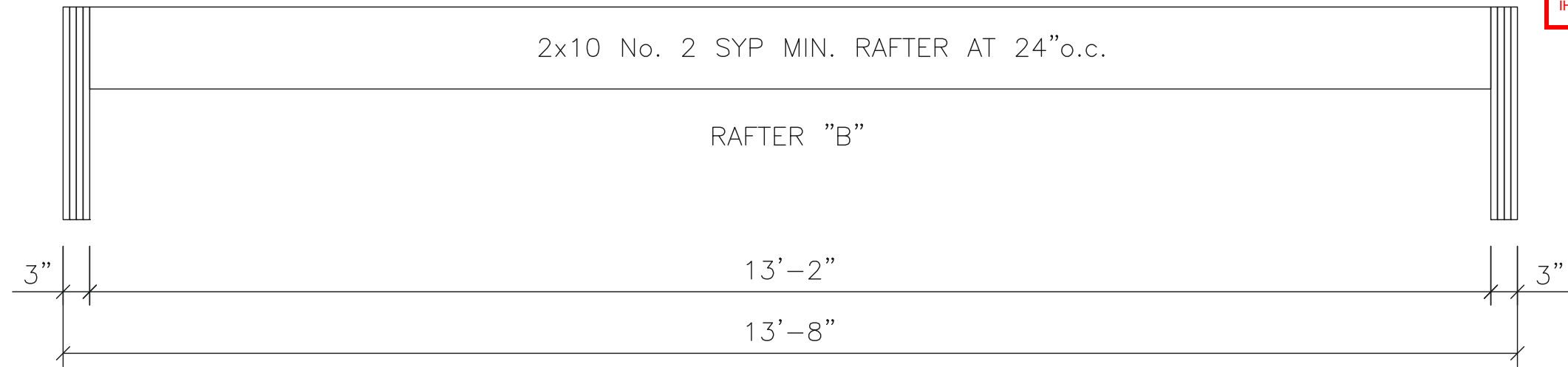
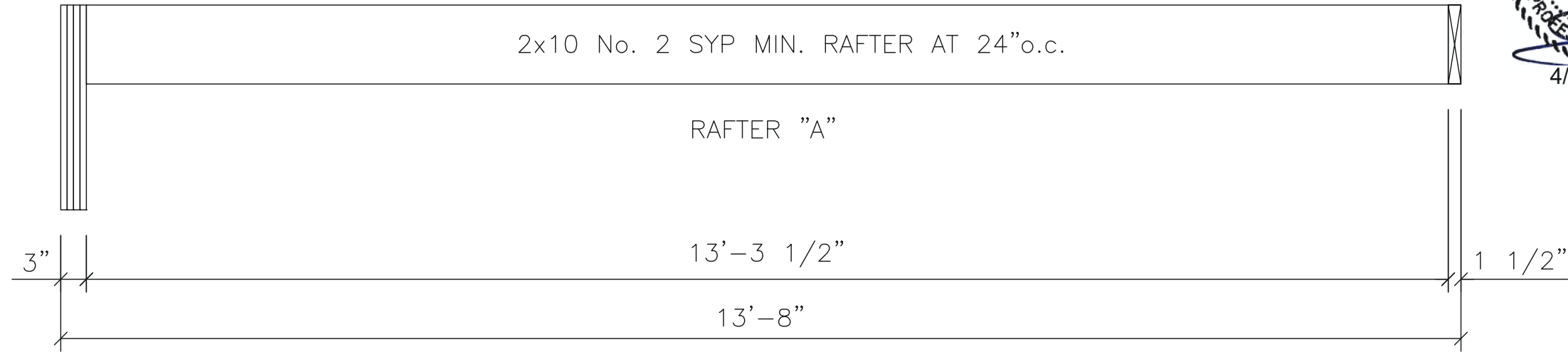
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| PLOT SCALE: | 1:1 |
| DRAWN BY: | SGD |
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PROTECTION BUILDING
FT. HOOD, TEXAS
ROOF FRAMING LAYOUT
FILE: 7596 PROTECT
SERIAL #: 0000

SHEET No.
S1-4




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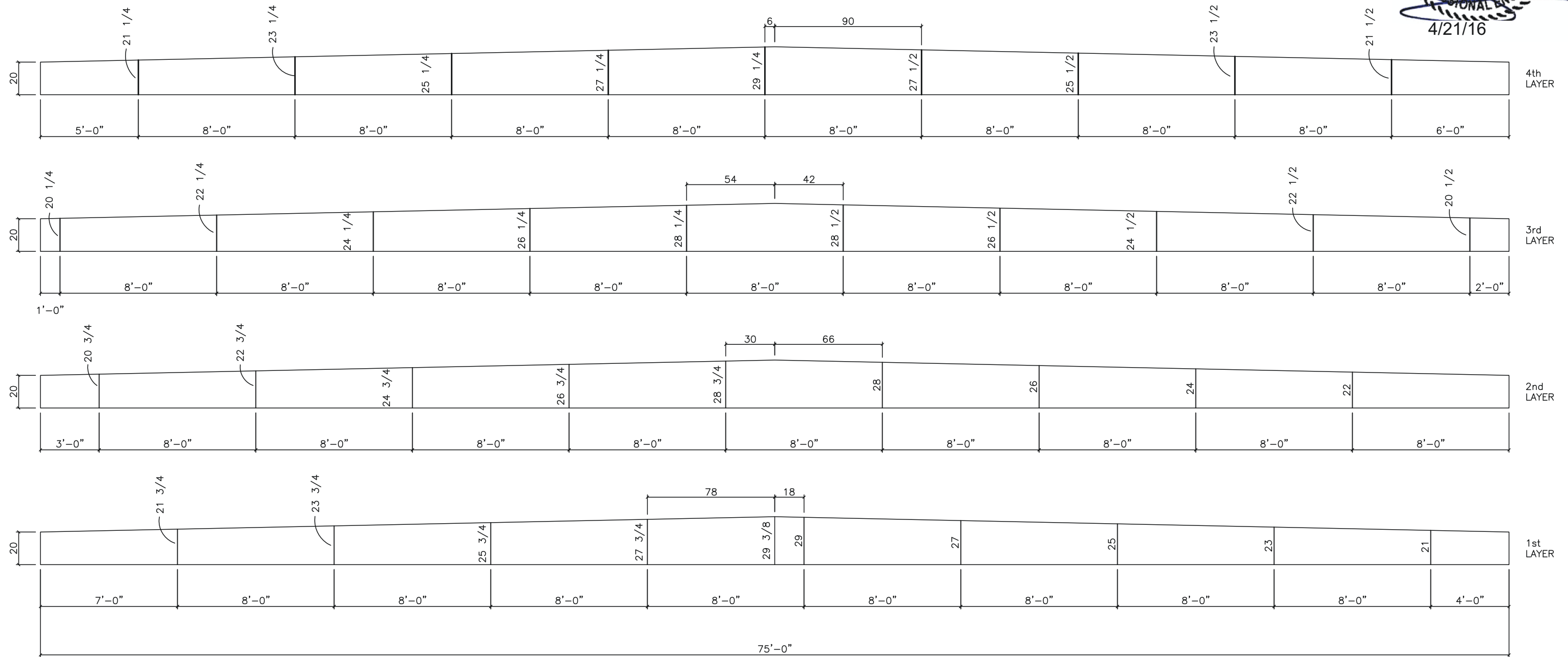
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| DATE: | 02/22/2016 |
| SCALE: | 1/2" = 1'-0" |
| PLOT SCALE: | 1:1 |
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PROTECTION BUILDING
FT. HOOD, TEXAS
RAFTER DETAILS
FILE: 7596 PROTECT
SERIAL #: 0000



NOTES:

1. RIDGE BEAM CONSTRUCTION IS SAME FOR BOTH HALVES (MIRRORED)
2. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL.
3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.

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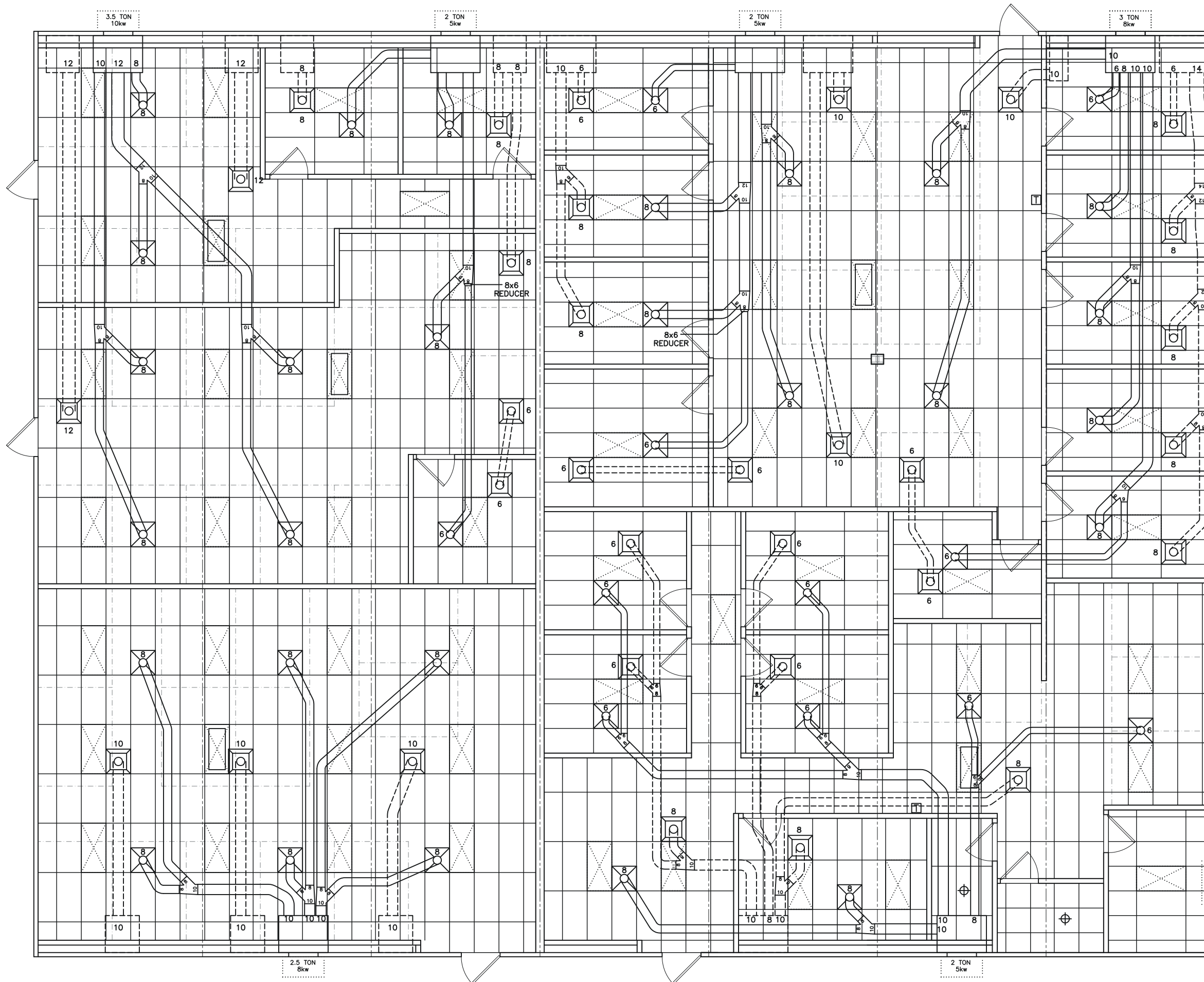
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| DATE: | 02/22/2016 |
| SCALE: | 3/16" = 1'-0" |
| PLOT SCALE: | 1:1 |
| DRAWN BY: | SGD |
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| PROTECTION BUILDING | FT. HOOD, TEXAS |
| RIDGE BEAM CONSTRUCTION | FILE: 7596 PROTECT |
| SERIAL #: | 0000 |



SYMBOL LEGEND

| | |
|--|---|
| | 2' x 4' FLUORESCENT LIGHT WITH 4 x 32 WATT LAMPS & ELECTRONIC BALLAST (112 WATTS) |
| | TYPE IC RECESSED COMPACT FLUORESCENT LIGHT (26 WATT) |
| | 24" x 24" SUPPLY DIFFUSER |
| | 24" x 24" RETURN AIR GRILL |
| | 6" x 12" SUPPLY REGISTER |
| | PROGRAMMABLE THERMOSTAT |

NOTE:
DUCTING IS CLASS 1, U.L. 181 LISTED FLEXIBLE FIBERGLASS DUCTING.



(Structural Aspects Only)


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Approval Date: 4/29/16

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1 CEILING GRID & HVAC LAYOUT
scale: 1/8" = 1'-0"

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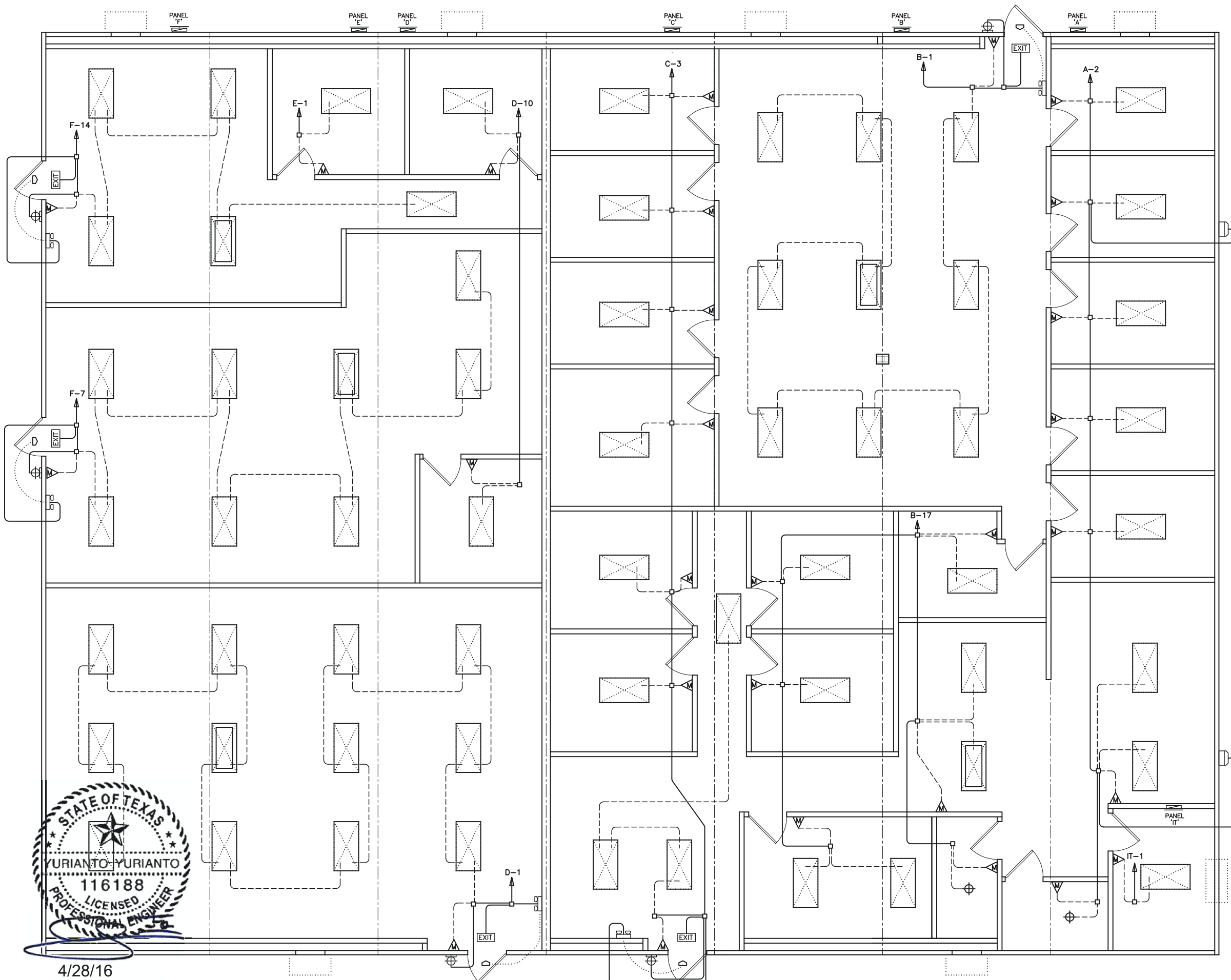
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| DATE: | 02/24/2016 |
| SCALE: | 1/8" = 1'-0" |
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| CHECKED BY: | |

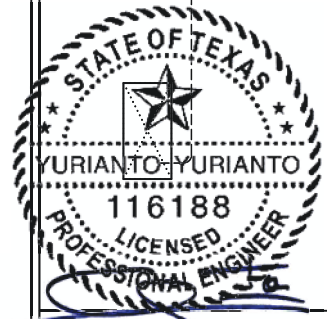
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| PROTECTION BUILDING FT. HOOD, TEXAS |
| CEILING GRID / HVAC LAYOUT |
| FILE: 7596 PROTECT |
| SERIAL #: 0000 |

SHEET No. **M1-3**



| ELECTRICAL SYMBOL LEGEND | |
|--------------------------|--|
| | 48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & ELECTRONIC BALLAST (112w) |
| | 48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & 1 EMERGENCY BALLAST (112w) (52w IN EMERGENCY MODE) |
| | RECESS MOUNTED TYPE IC COMPACT FLUOR. LIGHT (26w) |
| | VANDAL-PROOF EXTERIOR COMPACT FLUORESCENT LIGHT ON PHOTOCELL (26w) |
| | WALL MOUNTED CFL LIGHT ON PHOTOCELL (84w) |
| | EXHAUST FAN, CFM AS NOTED AT FIXTURE |
| | 80CFM EXHAUST FAN / COMPACT FLUORESCENT LIGHT COMBINATION (26w) |
| | 240v RECEPTACLE |
| | RECEPTACLE |
| | GFI RECEPTACLE |
| | TAMPER-RESISTANT RECEPTACLE |
| | WEATHER-PROOF GFI RECEPTACLE |
| | DEDICATED RECEPTACLE |
| | CEILING TILE MOUNTED TWIST-LOCK RECEPTACLE |
| | RECEPTACLE INSTALLED FLOOR ON A GFCI AREA |
| | QUAD RECEPTACLE |
| | CEILING MOUNTED J-BOX WITH POWER FOR CUBICLES |
| | 7-DAY PROGRAMMABLE THERMOSTAT / OVERRIDE |
| | SWITCH |
| | 3-WAY SWITCH |
| | OCCUPANCY SENSOR SWITCH |
| | FLOOR MOUNTED RECEPTACLE |
| | FLOOR MOUNT PHONE STUB-IN |
| | TWO PORT TELECOM OUTLET (4 11/16" SQUARE x 2 1/8" DEEP BOX W/ SINGLE GANG RING INSTALLED AT 18" AFF) |
| | PHONE OUTLET (4 11/16" SQUARE x 2 1/8" DEEP BOX W/ SINGLE GANG RING INSTALLED AT 48" AFF) |
| | JUNCTION BOX |
| | ELECTRICAL DIST. PANEL |
| | LED EXIT LIGHT w/ BATTERY BACK-UP |
| | EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD |
| | EXTERIOR REMOTE HEAD |
| | FIRE EXTINGUISHER LOCATION |

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 Approval Date: 4/29/16
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4/28/16

(Structural Aspects Only)

NOTE:
 BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
 ELECTRICAL CONDUIT: ELECTRICAL NON-METALLIC TUBING
 ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND
 GROUNDING ON SITE: PER 2011 NEC ARTICLE 250-50

1 LIGHTING SCHEMATIC
 scale: 1/8" = 1'-0"

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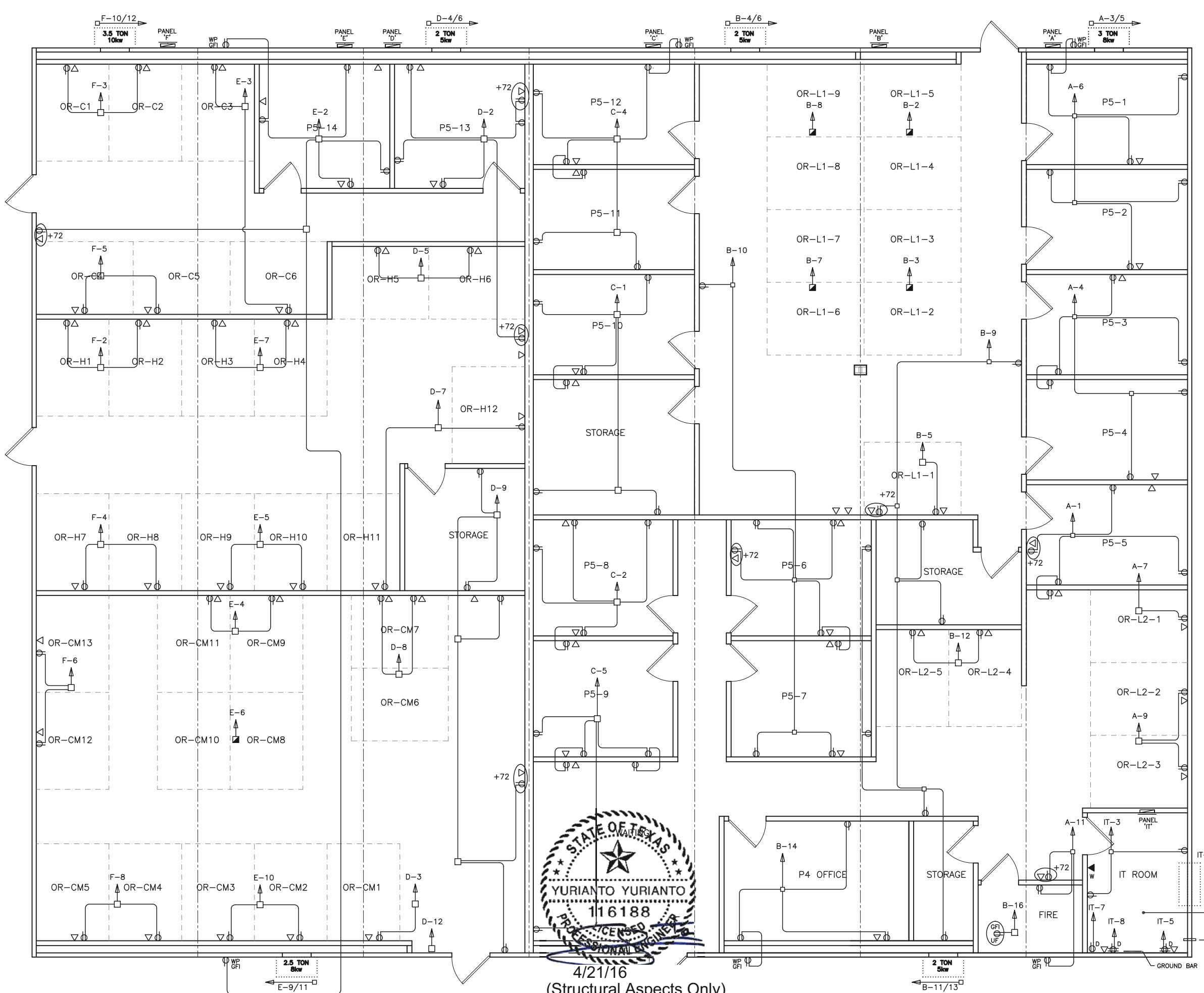
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| DATE: 04/08/2016 | SCALE: 1/8" = 1'-0" |
| PLOT SCALE: 1:1 | DRAWN BY: SGD |
| CHECKED BY: | |

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| PROTECTION BUILDING FT. HOOD, TEXAS | LIGHTING SCHEMATIC |
| FILE: 7596 PROTECT | SERIAL #: 0000 |

SHEET No. **E1-1**



| ELECTRICAL SYMBOL LEGEND | |
|--------------------------|---|
| | 48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & ELECTRONIC BALLAST (112w) |
| | 48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & 1 EMERGENCY BALLAST (112w) (52w IN EMERGENCY MODE) |
| | RECESS MOUNTED TYPE IC COMPACT FLUOR. LIGHT (26w) |
| | VANDAL-PROOF EXTERIOR COMPACT FLUORESCENT LIGHT ON PHOTOCELL (26w) |
| | WALL MOUNTED CFL LIGHT ON PHOTOCELL (84w) |
| | EXHAUST FAN, CFM AS NOTED AT FIXTURE |
| | 80CFM EXHAUST FAN / COMPACT FLUORESCENT LIGHT COMBINATION (26w) |
| | 240v RECEPTACLE |
| | RECEPTACLE |
| | GFI RECEPTACLE |
| | TAMPER-RESISTANT RECEPTACLE |
| | WEATHER-PROOF GFI RECEPTACLE |
| | DEDICATED RECEPTACLE |
| | CEILING TILE MOUNTED TWIST-LOCK RECEPTACLE |
| | RECEPTACLE INSTALLED BELOW FLOOR ON A GFI BREAKER |
| | QUAD RECEPTACLE |
| | CEILING MOUNTED J-BOX WITH POWER FOR CUBICLES |
| | 7-DAY PROGRAMMABLE THERMOSTAT w/ OVERRIDE |
| | SWITCH |
| | 3-WAY SWITCH |
| | OCCUPANCY SENSOR SWITCH |
| | FLOOR MOUNTED RECEPTACLE |
| | FLOOR MOUNT PHONE STUB-IN |
| | TWO PORT TELECOM OUTLET (4 1/16" SQUARE x 2 1/8" DEEP BOX W/ SINGLE GANG RING INSTALLED AT 18" AFF) |
| | PHONE OUTLET (4 1/16" SQUARE x 2 1/8" DEEP BOX W/ SINGLE GANG RING INSTALLED AT 48" AFF) |
| | JUNCTION BOX |
| | ELECTRICAL DIST. PANEL |
| | LED EXIT LIGHT w/ BATTERY BACK-UP |
| | EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD |
| | EXTERIOR REMOTE HEAD |
| | FIRE EXTINGUISHER LOCATION |

NOTE: BUILDING IS: 120/240v 3-WIRE SINGLE PHASE ELECTRICAL CONDUIT: ELECTRICAL NON-METALLIC TUBING ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND GROUNDING ON SITE: PER 2011 NEC ARTICLE 250-50

SEE SHEET A1-5 FOR DETAILS

POWER DISTRIBUTION SCHEMATIC
scale: 1/8" = 1'-0"

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Approval Date: 4/29/16
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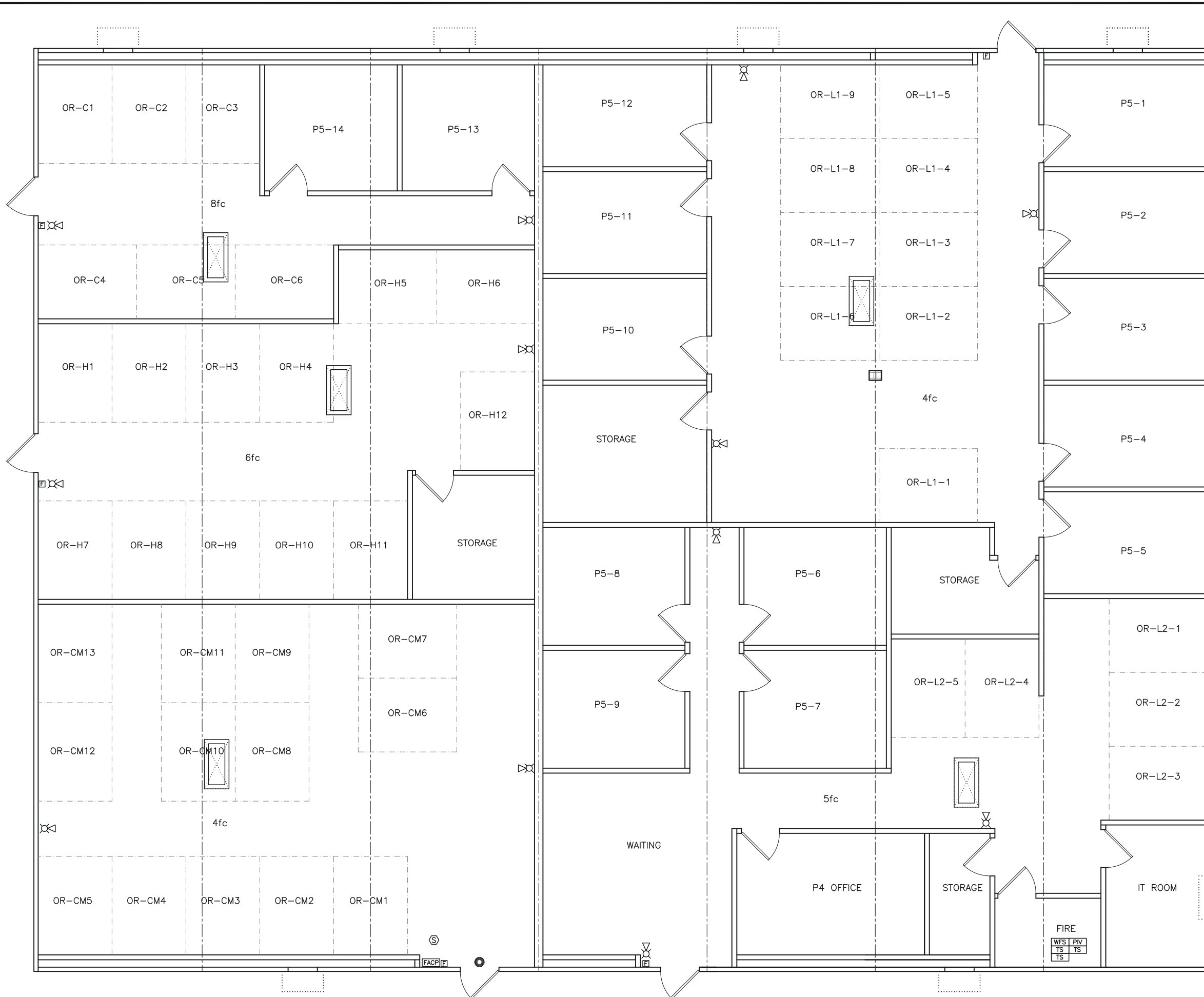
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| 03/31/2016 | | |
| 1/8" = 1'-0" | | |
| PLOT SCALE: 1:1 | | |
| DRAWN BY: SGD | | |
| CHECKED BY: | | |

PROTECTION BUILDING FT. HOOD, TEXAS
POWER DISTRIBUTION SCHEMATIC
FILE: 7596 PROTECT
SERIAL #: 0000

SHEET No. **E1-2**



4/21/16
(Structural Aspects Only)

| SYMBOL LEGEND | |
|---------------|---|
| | MANUAL PULL STATION MOUNT AT 48" AFF. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG MUD RING |
| | WALL COMBINATION ALARM HORN / STROBE. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG MUD RING. |
| | WALL MOUNTED STROBE. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG MUD |
| | WALL MOUNTED HORN. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG RING |
| | SMOKE DETECTOR. INSTALL 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG RING |
| | FIRE ALARM CONTROL PANEL. PROVIDE A DEDICATED 120V POWER CIRCUIT |
| | WATER FLOW SWITCH. INSTALL 4 11/16" x 2 1/8" DEEP BOX AT WALL NEAR SPRINKLER RISER W/ PIECE OF FLEX CONDUIT FOR CONNECTION TO SWITCH |
| | TAMPER SWITCH. INSTALL 4 11/16" x 2 1/8" DEEP BOX AT WALL NEAR SPRINKLER RISER W/ PIECE OF FLEX CONDUIT FOR CONNECTION TO SWITCH |
| | POST INDICATOR VALVE CONNECTION |
| | MONACO RADIO TRANSMITTER PANEL. PROVIDE WITH 120V DEDICATED POWER CIRCUIT |
| | EXTERIOR, WEATHER-PROOF |
| | 3/4" CONDUIT STUBBED THROUGH ROOF FOR CONTRACTOR INSTALLED RED STROBE FOR FIRE DEPARTMENT NOTIFICATION WHEN AN ALARM PANEL GOES INTO TROUBLE MODE |
| | 2' x 4" FLUORESCENT LIGHT WITH 4 EACH T-8 LAMPS, ONE ELECTRONIC BALLAST AND ONE EMERGENCY BALLST DRIVING TWO LAMPS IN FIXTURE IN EMERGENCY MODE |

NOTE:
FOR A 94" FINISHED CEILING HEIGHT, WALL MOUNTED NOTIFICATION APPLIANCES ARE TO BE INSTALLED AT A MAXIMUM OF 80" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APPLIANCE.
ALL DEVICES TO HAVE 3/4" CONDUIT STUBBED TO ABOVE THE SUSPENDED CEILING

Texas Industrialized Building Code Council
IBC IRC
Approval Date: 4/29/16
APPROVED
PFS CORPORATION
IHdra- 7

1 ALARM SYSTEM LAYOUT
scale: 1/8" = 1'-0"

MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, TEXAS 75025-5833
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DESBORO, TEXAS 79115
PH: 469-727-0727

| No. | DESCRIPTION | BY | DATE |
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|-------------|--------------|
| DATE: | 04/15/2016 |
| SCALE: | 1/8" = 1'-0" |
| PLOT SCALE: | 1:1 |
| DRAWN BY: | SGD |
| CHECKED BY: | |

PROTECTION BUILDING FT. HOOD, TEXAS
ALARM SYSTEM LAYOUT
FILE: 7596 PROTECT
SERIAL #: 0000

SHEET No.
E1-4