

**I. PEC SKID MATERIAL**

FLOOR PLATE: 1/4 INCH HOT ROLLED STEEL PLATE  
 PERIMETER BEAM: ASTM A-36 MEMBER  
 SEE DRAWING: PEC12-30102029-0300-PB01 & -PB02  
 JOISTS: ASTM A-36 MEMBER  
 SEE DRAWING: PEC12-30102029-0300-PB01 & -PB02  
 GIRDERS: ASTM A-36 MEMBER  
 SEE DRAWING: PEC12-30102029-0300-PB01 & -PB02

**II. PEC WALL MATERIAL**

ROOF: 16 GAUGE G90-GALVANIZED STEEL  
 CEILING: 16 GAUGE G90-GALVANIZED STEEL  
 WALL PANELS: 14 GAUGE G90-GALVANIZED STEEL  
 LINERS: 16 GAUGE G90-GALVANIZED STEEL

**III. PEC PAINT SYSTEM - BASE**

SURFACE PREP: COMMERCIAL BLAST (SSPC-SP6)  
 PRIMER: DEVON DEVGUARD-PRIMER No. 4160  
 UNDERCOAT: BITUMINOUS EPOXY UNDERCOAT [MIN. 8.0 MILS]  
 INTERMEDIATE: NONE  
 FINISH (EXT. SKID): DEVOE TRU-GLAZE EPOXY BLACK [MIN. 1.5 - 2.0 MILS]  
 FINISH (FLOOR): DEVOE TRU-GLAZE ANTI-SKID EPOXY 4508, GRAY [MIN. 2.0 MILS]

**IV. PEC PAINT SYSTEM - WALLS & ROOF**

SURFACE PREP.: 3 STAGE WASH  
 PRIMER: PRIME COAT: K & L No. TRIPOLAR WHITE PRIMER [2.0-3.0 MILS]  
 FINISH (INTERIOR): HIGH YIELD POLYESTER POWDER COATING, COASTAL WHITE [MIN. 2.0-3.0 MILS.]  
 FINISH (EXTERIOR): HIGH YIELD POLYESTER POWDER COATING, RUST (PBR2-C0001) [MIN. 1.5-2.0 MILS.]  
 SEALANT: WALL SEAM SEALANT AFTER APPLICATION OF FINISH COAT  
 TOUCH UP PAINT: 1 QUART FLOOR PAINT  
 1 QUART INTERIOR/EXTERIOR PAINT

**V. PEC INSULATION**

ROOF: R-22.8 3 1/2" THERMAX INSULATION BOARD  
 WALLS: R-22.8 3 1/2" THERMAX INSULATION BOARD  
 FLOOR: R-13 2" POLYURETHANE SPRAY FOAM INSULATION

**VI. PEC SITE CONDITIONS**

LOCATION: AUGUSTA, MAINE  
 ELEVATION: <3300' ABOVE SEA LEVEL  
 HUMIDITY: % RELATIVE  
 DESIGN TEMPERATURE: -40°F MIN. TO 104°F MAX.  
 PRECIPITATION: INCHES ANNUAL RAIN FALL  
 WIND VELOCITY: 125 MPH  
 INSTALLATION: PIER MOUNTED  
 SEISMIC: ZONE 3  
 ROOF SNOW LOADING: 60 PSF (ASCE 7-05)

**VII. PEC AREA CLASSIFICATION**

CLASSIFICATION: NON HAZARDOUS  
 STANDARD: IBC 2006  
 OCCUPANCY GROUP: U  
 CONSTRUCTION TYPE: II B

**VIII. PEC DOORS**

NOTATION 1: (4) 3070 EXTERIOR DOOR W/ 10 X 10 POLYCARBONATE WINDOW  
 NOTATION 2: (18) DOOR SIGNS "DANGER HIGH VOLTAGE/KEEP OUT" GRAINGER: 5AK63  
 NOTATION 3: STANDARD STAINLESS STEEL EXTERIOR AND ALUMINUM INTERIOR DOOR HARDWARE  
 NOTATION 4:  
 NOTATION 5:

**IX. PEC WEIGHTS & LOADS**

ENCLOSURE WEIGHT (LBS): APPROX. 40,957 LBS  
 EQUIPMENT WEIGHT (LBS): APPROX. 26,400 LBS  
 TOTAL INSTALLED WEIGHT (LBS): APPROX. 67,357 LBS  
 HEAVIEST SHIPPING SECTION (LBS): APPROX. 33,679 LBS  
 ENCLOSURE SIZE: 23FT-0IN X 22FT-0IN  
 ROOF LIVE LOAD: 45 PSF  
 FLOOR LIVE LOAD: 250 PSF  
 WIND LOADING: 125 MPH  
 SEISMIC REQUIREMENT: ZONE 3

**X. PEC ENVIRONMENTAL CONTROL**

NOTATION 1: (2) 3 TON, 208/230/3/60, 9kW HEAT, BARD W36A1-B09XP1XXJ  
 NOTATION 2:  
 NOTATION 3:  
 NOTATION 4:  
 NOTATION 5:

**XI. PEC ELECTRICAL**

CONDUIT (INTERIOR): 3/4" EMT CONDUIT UNLESS OTHERWISE NOTED  
 CONDUIT (EXTERIOR):  
 WIRE: #12 AWG THHN, BLACK, WHITE OR GREEN UNLESS OTHERWISE NOTED.

**XII. PEC NOTES**

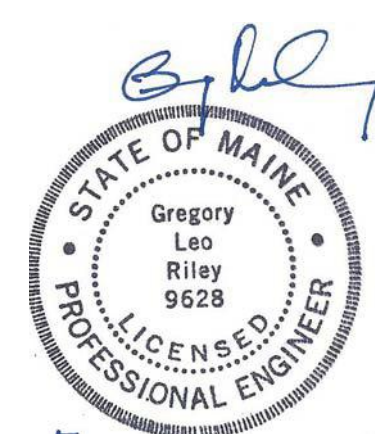
NOTATION 1: 6" X 6" PERIMETER WIREWAY  
 NOTATION 2: 1/4" X 2" GROUND BUS  
 NOTATION 3: FOUR (4) GROUND PADS  
 NOTATION 4: GROUNDING JUMPERS  
 NOTATION 5:  
 NOTATION 6:  
 NOTATION 7:  
 NOTATION 8:  
 NOTATION 9:  
 NOTATION 10:

**XIII. PEC SPECIAL REQUIREMENTS**

NOTATION 1: 18 DOOR SIGNS "DANGER HIGH VOLTAGE / KEEP OUT" GRAINGER 5AK63  
 NOTATION 2: WATER TEST ON PEC  
 NOTATION 3: 2 HOUR FIRE RATED INTERIOR WALL "BLAZE SHIELD" SPRAY FORM  
 NOTATION 4: 1 23FT PARTITION WALL  
 NOTATION 5: 2 AUDIBLE FIRE ALARMS  
 NOTATION 6: 4 PULL STATIONS  
 NOTATION 7: 4 PULL STATION IDENTIFICATION SIGNS  
 NOTATION 8: 2 SMOKE DETECTORS  
 NOTATION 9: 1 2412 EDWARDS (EQUIVALENT)FIRE ALARM CONTROL PANEL

**DRAWING LIST:**

DRAWING NO.	REV.	DESCRIPTION
PEC12-30102029-0300-GI01	6	PEC CONSTRUCTION NOTES
PEC12-30102029-0300-EV01	3	PEC ELEVATION 1
PEC12-30102029-0300-EV02	4	PEC ELEVATION 2
PEC12-30102029-0300-EV03	3	PEC ELEVATION 3
PEC12-30102029-0300-EV04	4	PEC ELEVATION 4
PEC12-30102029-0300-EV05	4	PEC PARTITION WALL DETAILS
PEC12-30102029-0300-PV01_1/4	4	PEC PLAN VIEW EQUIPMENT DETAILS
PEC12-30102029-0300-PV01_2/4	A	PEC PLAN VIEW ELECTRICAL DETAILS
PEC12-30102029-0300-PV01_3/4	A	PEC PLAN VIEW GROUNDING DETAILS
PEC12-30102029-0300-PV01_4/4	A	PEC PLAN VIEW CABLE TRAY DETAILS
PEC12-30102029-0300-PB01	5	PEC SKID "A" DETAILS
PEC12-30102029-0300-PB02	5	PEC SKID "B" DETAILS
PEC12-30102029-0300-PB03	1	PEC SKID "A" & "B" CONNECTION DETAILS
PEC12-30102029-0300-PF01	3	PEC CUTOUT SKID "A" DETAILS
PEC12-30102029-0300-PF02	4	PEC CUTOUT SKID "B" DETAILS
PEC12-30102029-0300-PA01	3	PEC ELEVATION SPLIT DETAILS
PEC12-30102029-0300-PL01	3	PEC LIFTING DETAILS
PEC12-30102029-0300-WP01	A	208V Panelboard LP-1
PEC12-30102029-0300-WU01	A	PEC Utilities



NOTES:

REV: 6 DATE: 07/17/2013 BY: KS APPR: GD  
 Updated dwg index  
 REV: 5 DATE: 04/29/2013 BY: KS APPR: GD  
 Updated dwg index  
 REV: 4 DATE: 03/16/2013 BY: KS APPR: GD  
 Updated dwg index  
 REV: 3 DATE: 07/19/2012 BY: KS APPR: GD  
 Updated dwg index  
 REV: 2 DATE: 06/26/2012 BY: KS APPR: GD  
 Updated dwg index  
 REV: 1 DATE: 06/25/2012 BY: KS APPR: GD  
 Updated dwg index  
 REV: 0 DATE: 06/21/2012 BY: KS APPR: GD  
 Changed exterior color and issued for Construction  
 REV: B DATE: 05/08/2012 BY: KS APPR: GD  
 Changed building color & updated dwg index  
 REV: A DATE: 04/04/2012 BY: KS APPR: CB  
 For Approval  
 REVISION INFORMATION:

**CONTROLLED**

Revised  
 PR - Preliminary  
 AP - For Approval  
 IN - For Inspection  
 FI - For Information Only  
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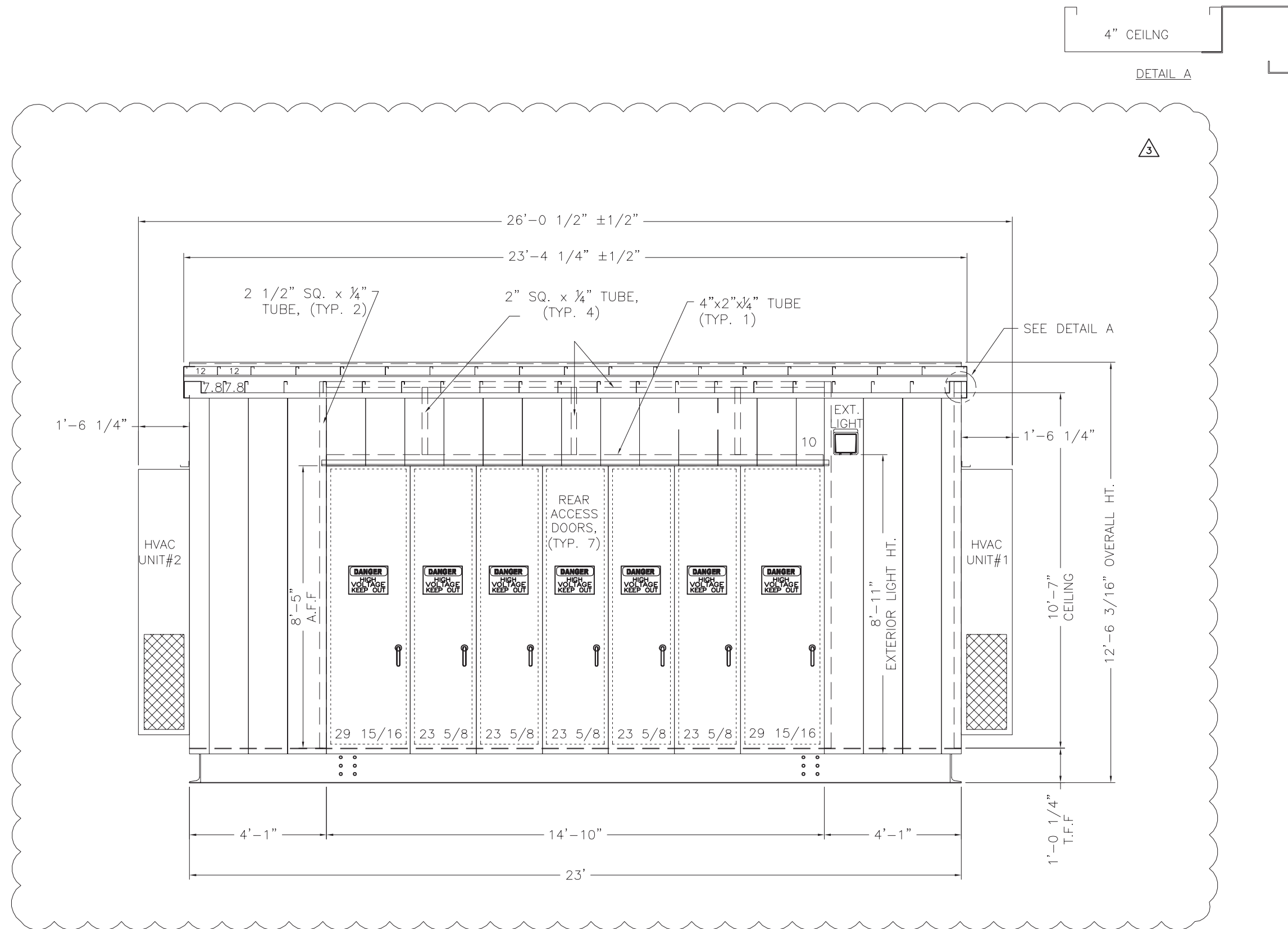
**SIEMENS**

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Central Maine Power Company  
 PO# 4500250330  
 Central Maine Power  
 Augusta, Maine  
 Union Street Substation  
 Power Equipment Center (PEC)  
 Union Street 34.5kV & 11kV SWGR Replacement

TITLE: PEC CONSTRUCTION NOTES  
 PROJ: 30102029 LE: CMB ED/SD: KS  
 DWG: PEC12-30102029-0300-GI01 SHEET: 1 OF: 1  
 PRINT REDUCTION SCALE: SCALE: 1" = 1"  
 0" 1" 2" 3"



Revision Information:

Rev: 3	Date: 07/05/2013	By: KS	Appr.: GD
Rev. wall and ceiling; added wall, ceiling, roof notes			
Rev: 2	Date: 04/26/2013	By: KS	Appr.: GD
Added more tubing supports.			
Rev: 1	Date: 07/19/2012	By: KS	Appr.: GD
Rev. line item#; rev. wall panels; added wireway note			
Rev: 0	Date: 06/20/2012	By: KS	Appr.: GD
For Construction			
Rev: A	Date: 04/03/2012	By: KS	Appr.: CB
For Approval			

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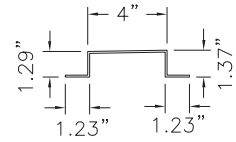
6510 Bourgeois Road  
Houston, Texas  
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Union Street 34.5kV & 11kV SWGR Replacement

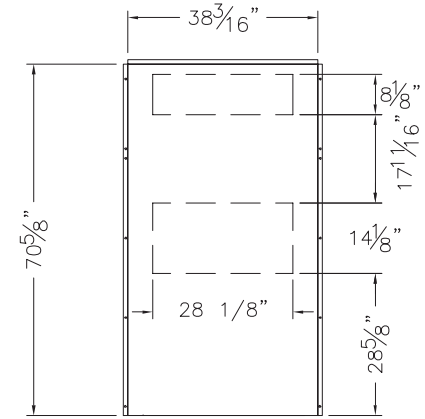
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Project: 30102029	LE: CMB	ED/SB: KS
Drawing: PEC12-30102029-0300-EV01	Sheet: 1	of: 1
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0"	1"	2"
		3"

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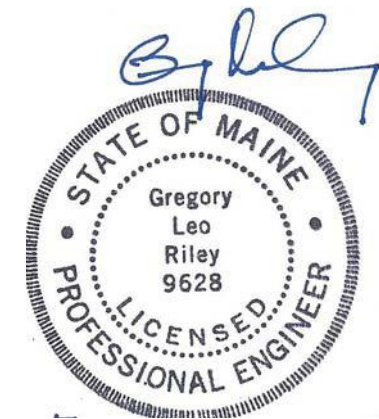
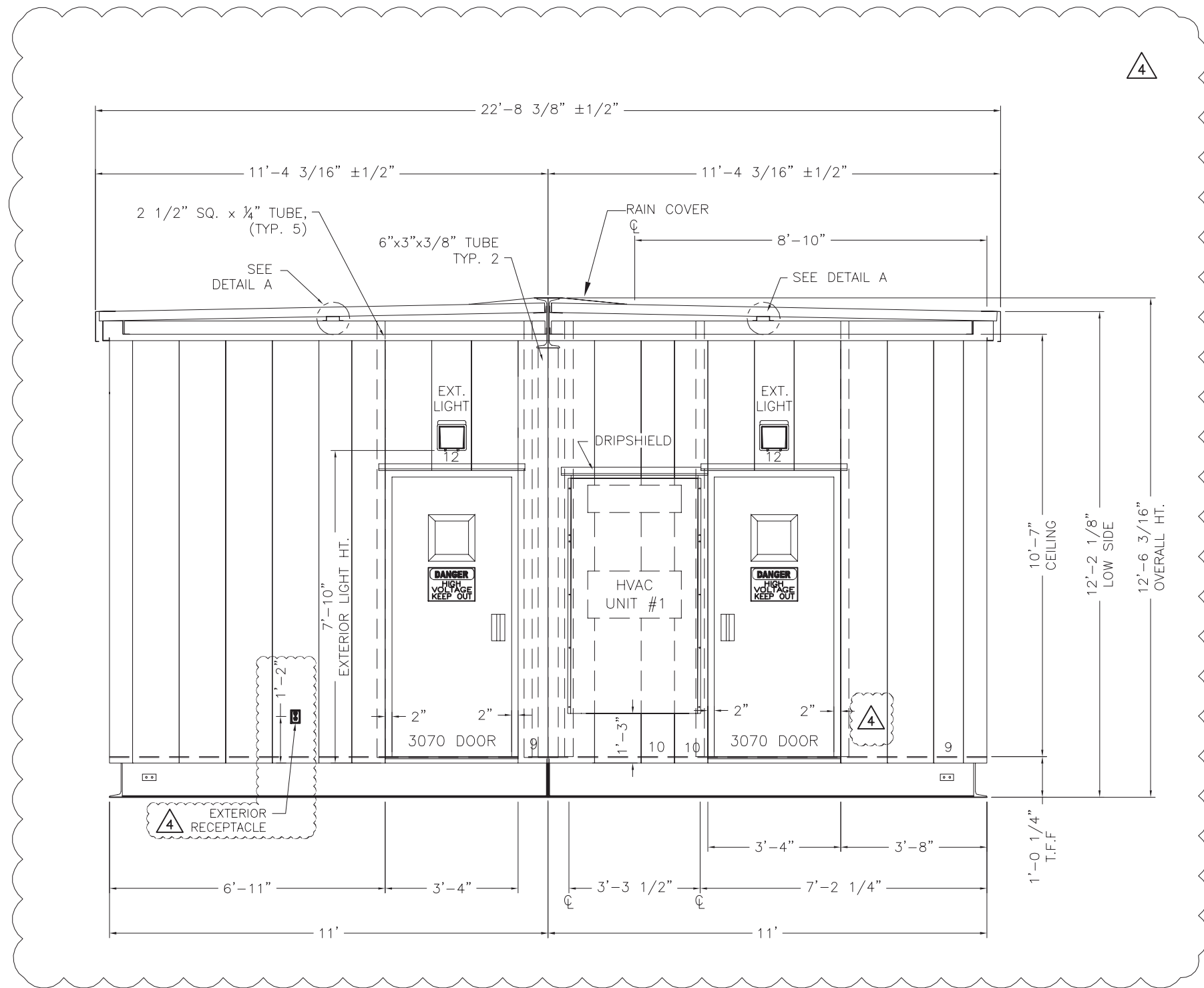
1. WALL PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
2. WALL CORNER: 7" X 7" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
3. CEILING PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
4. ROOF PANELS: 16" WIDE (UNLESS OTHERWISE NOTED) WITH 3" RIBS



DETAIL "A"  
(MAT'L: 12GA GALV.)  
QTY: 2



HVAC CUTOUT DETAIL



Rev: 4	Date: 07/05/2013	By: AMD/KS	Appr.: GD
Deleted exterior receptacle; rev. walls and ceilings; added wall ceiling, roof notes, deleted removable end wall			
Rev: 3	Date: 05/02/2013	By: KS	Appr.: GD
Added ac dripshield, added reser details, added danger sign Added removable end wall details			
Rev: 2	Date: 03/16/2013	By: KS	Appr.: GD
Rev. HVAC detail			
Rev: 1	Date: 06/25/2012	By: KS	Appr.: GD
Rev. Line Item#			
Rev: 0	Date: 06/20/2012	By: KS	Appr.: GD
For Construction			
Rev: A	Date: 04/03/2012	By: KS	Appr.: CB
For Approval			

Revision Information:

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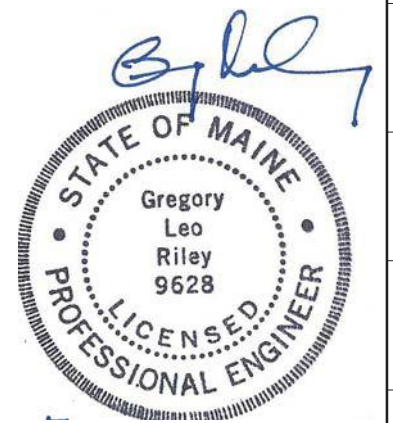
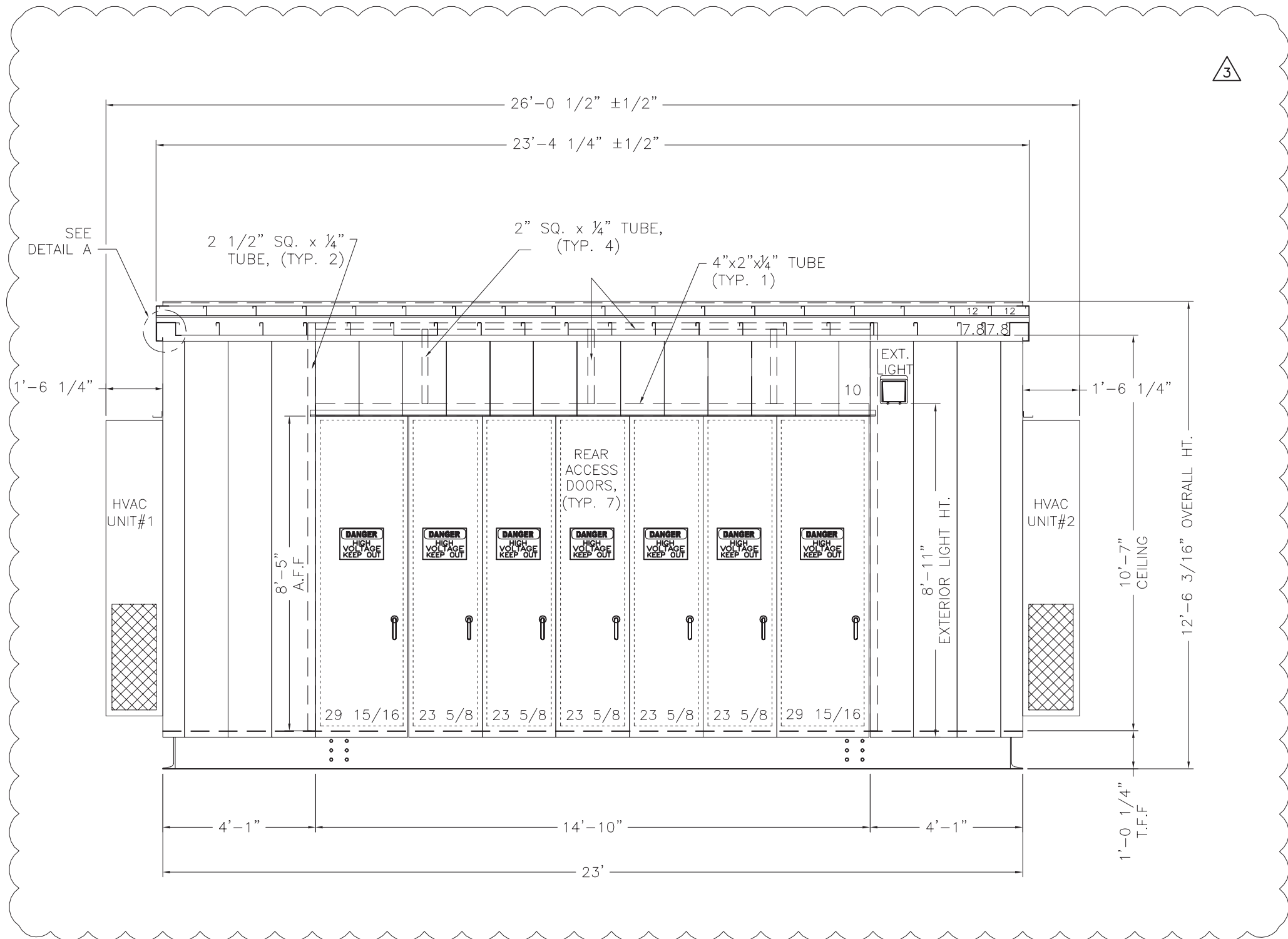
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Union Street 34.5kV & 11kV SWGR Replacement

Title: PEC ELEVATION 2		
Project: 30102029	LE: CMB	Ed/Sd: KS
Drawing: PEC12-30102029-0300-EV02	Sheet: 1 of 1	
Print reduction scale: 0"	Scale: 18	

**NOTE:**

1. WALL PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
2. WALL CORNER: 7" X 7" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
3. CEILING PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
4. ROOF PANELS: 16" WIDE (UNLESS OTHERWISE NOTED) WITH 3" RIBS



Notes:

Rev: 3	Date: 07/05/2013	By: KS	Appr.: GD
Rev: 2	Date: 04/26/2013	By: KS	Appr.: CB
Rev: 1	Date: 07/19/2012	By: KS	Appr.: CB
Rev: 0	Date: 06/20/2012	By: KS	Appr.: CB
Rev: A	Date: 04/03/2012	By: KS	Appr.: CB

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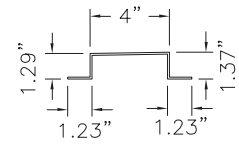
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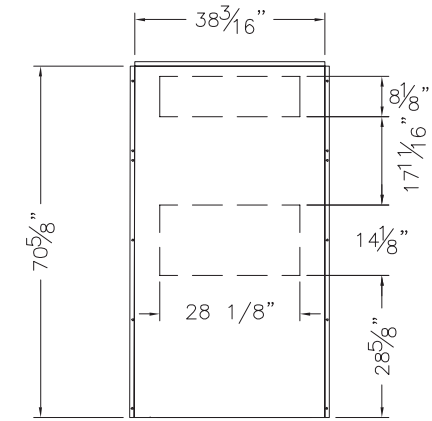
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Project: 30102029 LE: CMB Ed/Sb: KS  
Drawing: PEC12-30102029-0300-EV03 Sheet: 1 of 1  
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**NOTE:**

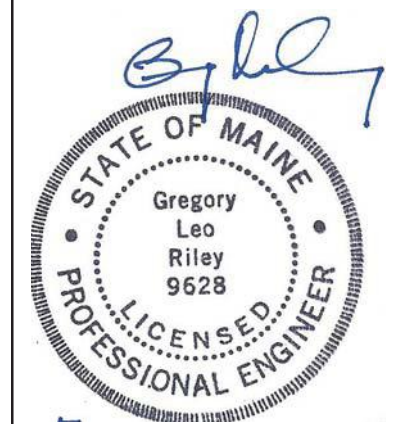
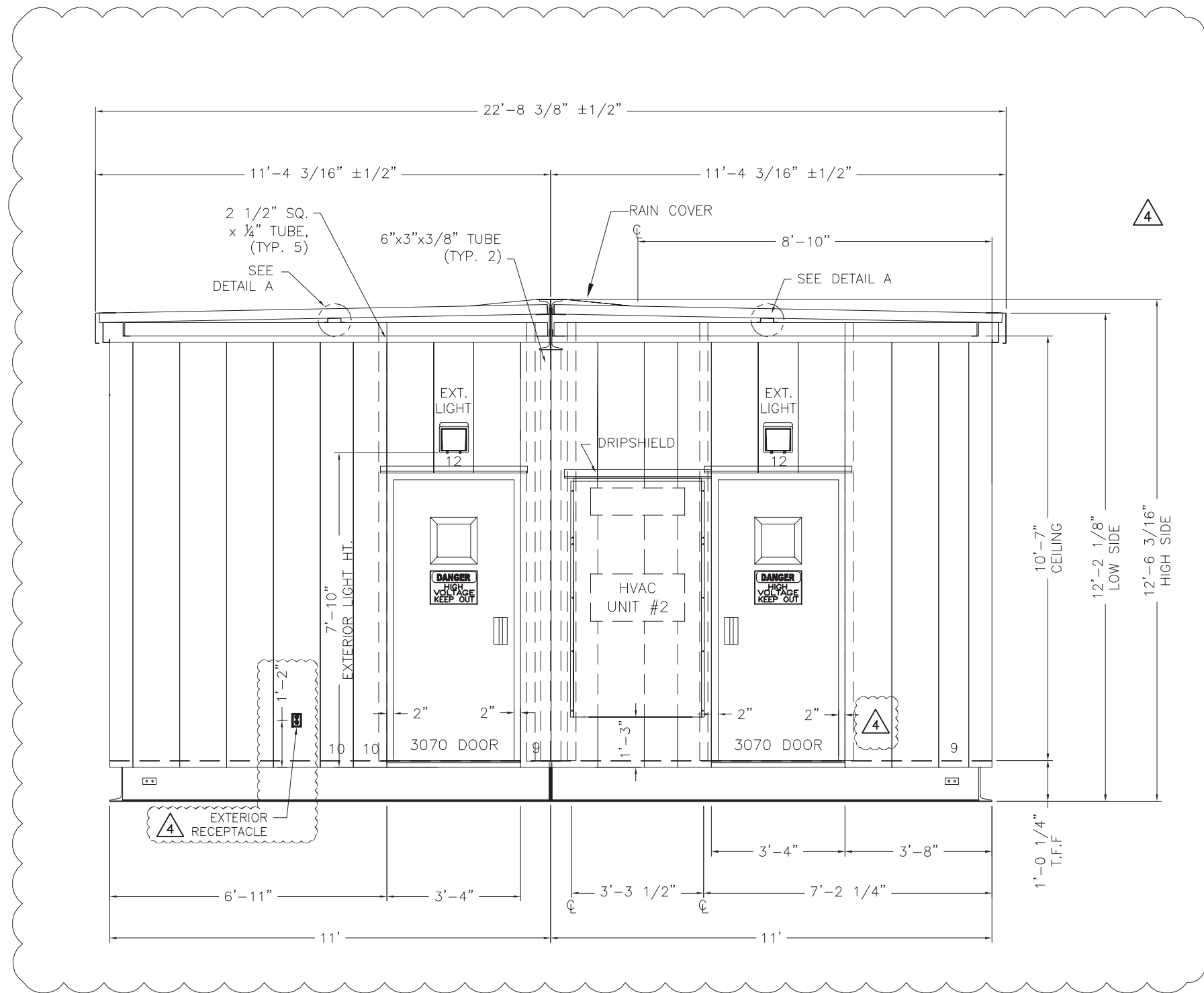
1. WALL PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
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3. CEILING PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
4. ROOF PANELS: 16" WIDE (UNLESS OTHERWISE NOTED) WITH 3" RIBS



DETAIL "A"  
(MAT'L: 12GA GALV.)  
QTY: 2



HVAC CUTOUT DETAIL



Notes:

Rev: 4	Date: 07/05/2013	By: AMD/KS	Appr.: GD
Deleted exterior receptacle; rev. walls and ceilings; added wall ceiling, roof notes, deleted removable end wall			
Rev: 3	Date: 05/02/2013	By: KS	Appr.: CB
Added ac dripshield, added reser details, added danger sign			
Added removable end wall details			
Rev: 2	Date: 03/16/2013	By: KS	Appr.: CB
Rev. HVAC detail			
Rev: 1	Date: 06/25/2012	By: KS	Appr.: CB
Rev. Line Item#			
Rev: 0	Date: 06/20/2012	By: KS	Appr.: CB
For Construction			
Rev: A	Date: 04/03/2012	By: KS	Appr.: CB
For Approval			

Revision Information:

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Union Street 34.5kV & 11kV SWGR Replacement

Title: PEC ELEVATION 4		
Project: 30102029	LE: CMB	ED/SD: KS
Drawing: PEC12-30102029-0300-EV04	Sheet: 1	of: 1
Print reduction scale: 0"	1"	2"
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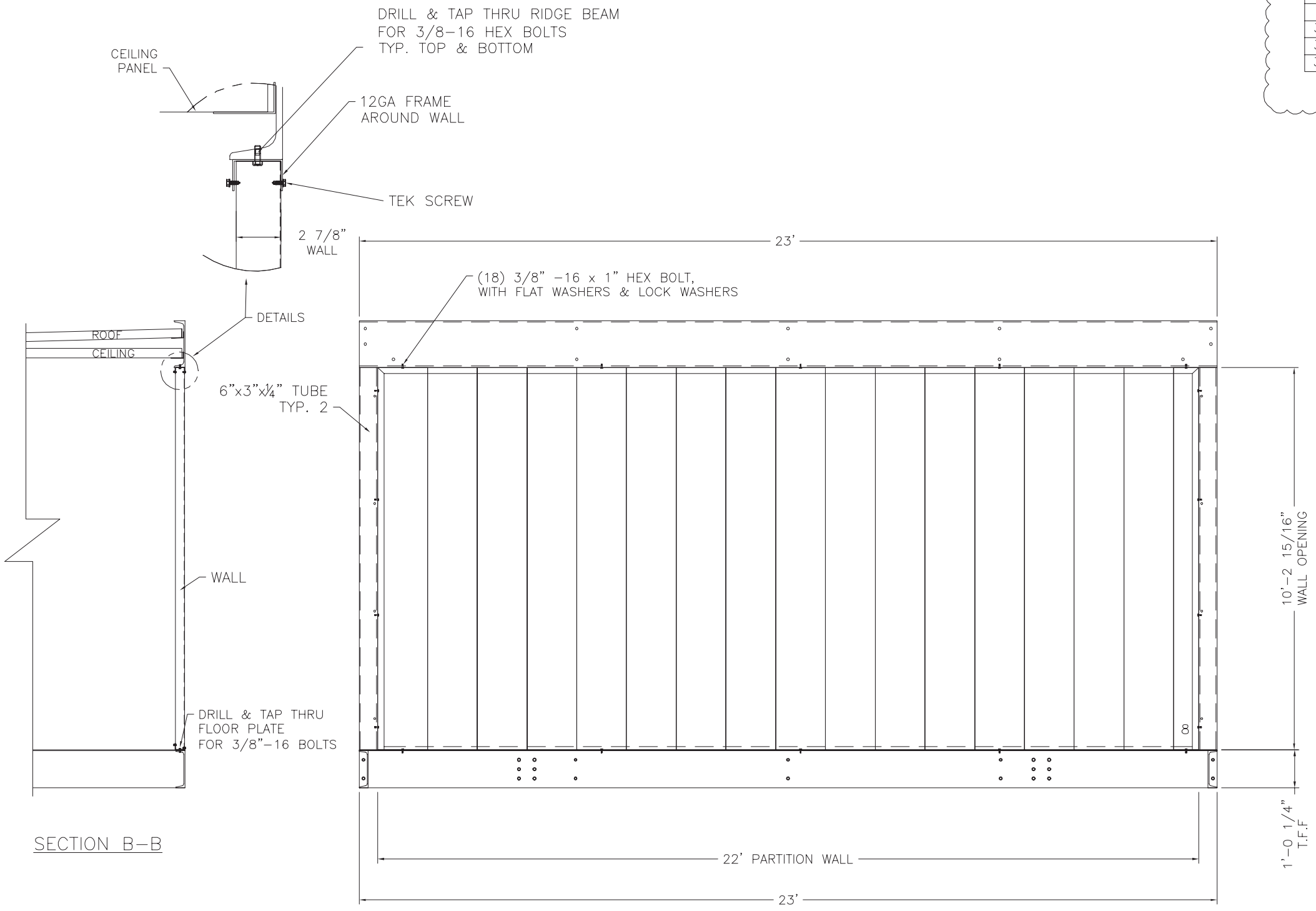
**NOTE:**

1. WALL PANELS: 14" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
2. WALL CORNER: 7" X 7" WIDE (UNLESS OTHERWISE NOTED) WITH 4" RIBS
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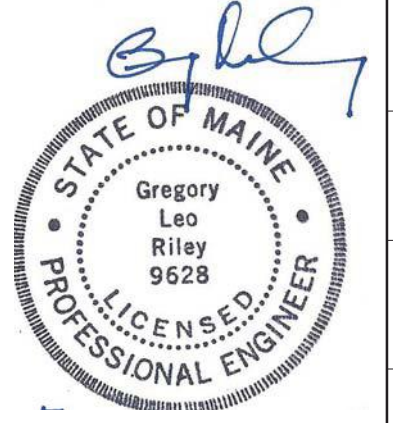
Notes:

PARTITION WALL HARDWARE	
DESCRIPTION	QTY
3/8-16 X 1 HEX BOLT	18
3/8" FLAT WASHER	18
3/8" LOCK WASHER	18



SECTION B-B

SECTION A-A  
(PARTITION WALL DETAIL)  
REFERENCE DRAWING#  
PEC12-30102029-0100-PV01



Revision Information:

Rev: 4	Date: 06/04/2013	By: KS	Appr.: GD
Rev. hardware table			
Rev: 3	Date: 05/02/2013	By: KS	Appr.: GD
Updated detail B, removed label of removable wall and replaced it with partition wall label			
Rev: 2	Date: 06/25/2012	By: KS	Appr.: GD
Rev. line items			
Rev: 1	Date: 06/23/2012	By: KS	Appr.: GD
Rev. hardware list			
Rev: 0	Date: 06/20/2012	By: KS	Appr.: GD
For Construction			

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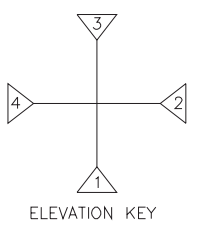
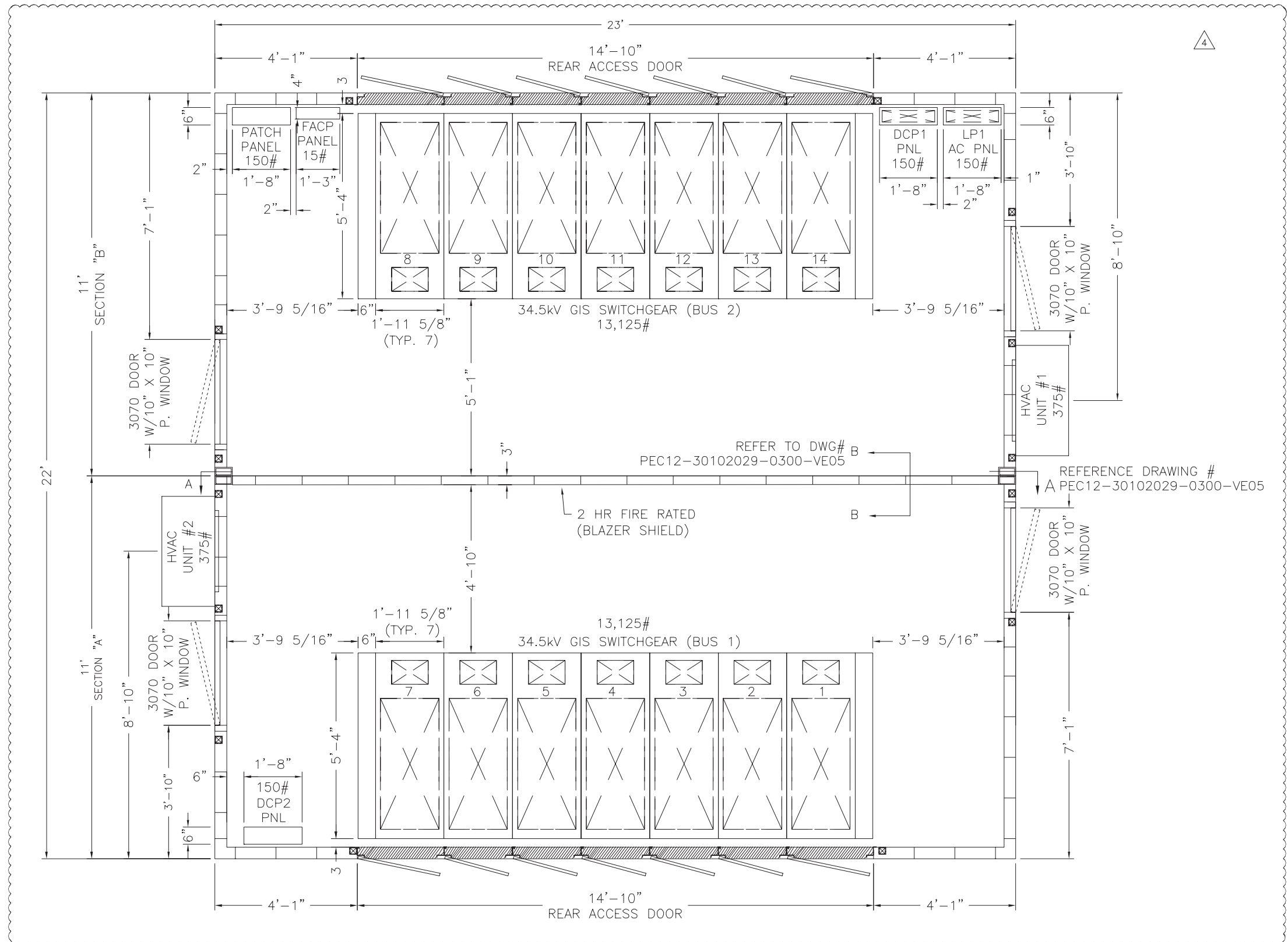
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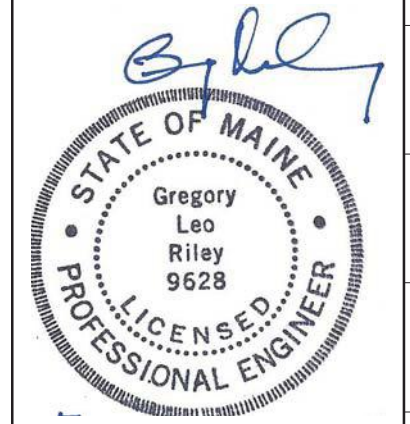
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Augusta, Maine  
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Power Equipment Center (PEC)  
Union Street 34.5kV & 11kV SWGR Replacement

Title: PEC PARTITION WALL DETAILS	
Project: 30102029	ED/SO: KS
LE: CMB	Sheet: 1 of 1
Drawing: PEC12-30102029-0300-EV05	Scale: 18
Print reduction scale:	0" 1" 2" 3"



Notes:  
1. ALL WALL TO BE 4" THICK UNLESS NOTED OTHERWISE.



Revision Information:

Rev: 4	Date: 07/05/2013	By: AMD/KS	Appr.: GD
Added Patch, FACP, DCP1 & 2/Deleted removable end wall, Revised perimeter walls thickness from 3" to 4".			
Rev: 3	Date: 05/02/2013	By: KS	Appr.: SR
Added wall mnt pull station and fire rated wall detail, and Removable end wall			
Rev: 2	Date: 03/15/2013	By: KS	Appr.: CB
Added cable entry to ac panel per spec.			
Rev: 1	Date: 06/26/2012	By: KS	Appr.: GD
Rev. line item#, enlarged GIS floor cutouts per customer req.			
Rev: 0	Date: 06/20/2012	By: KS	Appr.: GD
For Construction			
Rev: B	Date: 05/08/2012	By: KS	Appr.: CB
Added floor cutouts			
Rev: A	Date: 04/03/2012	By: KS	Appr.: CB
For Approval			

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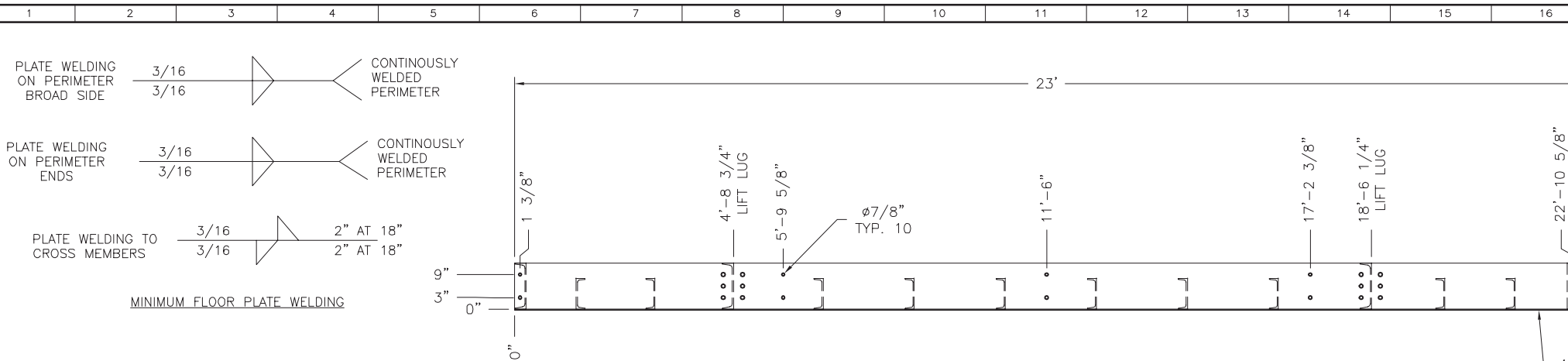
Central Maine Power Company  
PO# 4500250330  
Central Maine Power  
Augusta, Maine  
Union Street Substation  
Power Equipment Center (PEC)  
Union Street 34.5kV & 11kV SWGR Replacement

Title: PEC PLAN VIEW

Project: 30102029 LE: CMB ED/SD: KS

Drawing: PEC12-30102029-0300-PV01 Sheet: 1 of 4

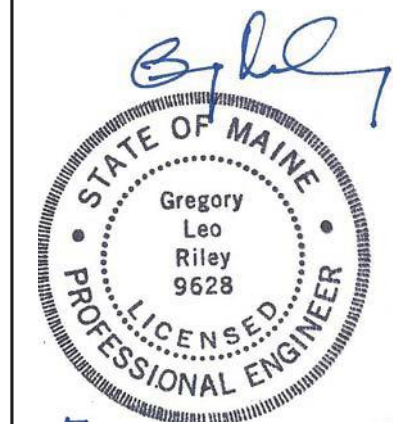
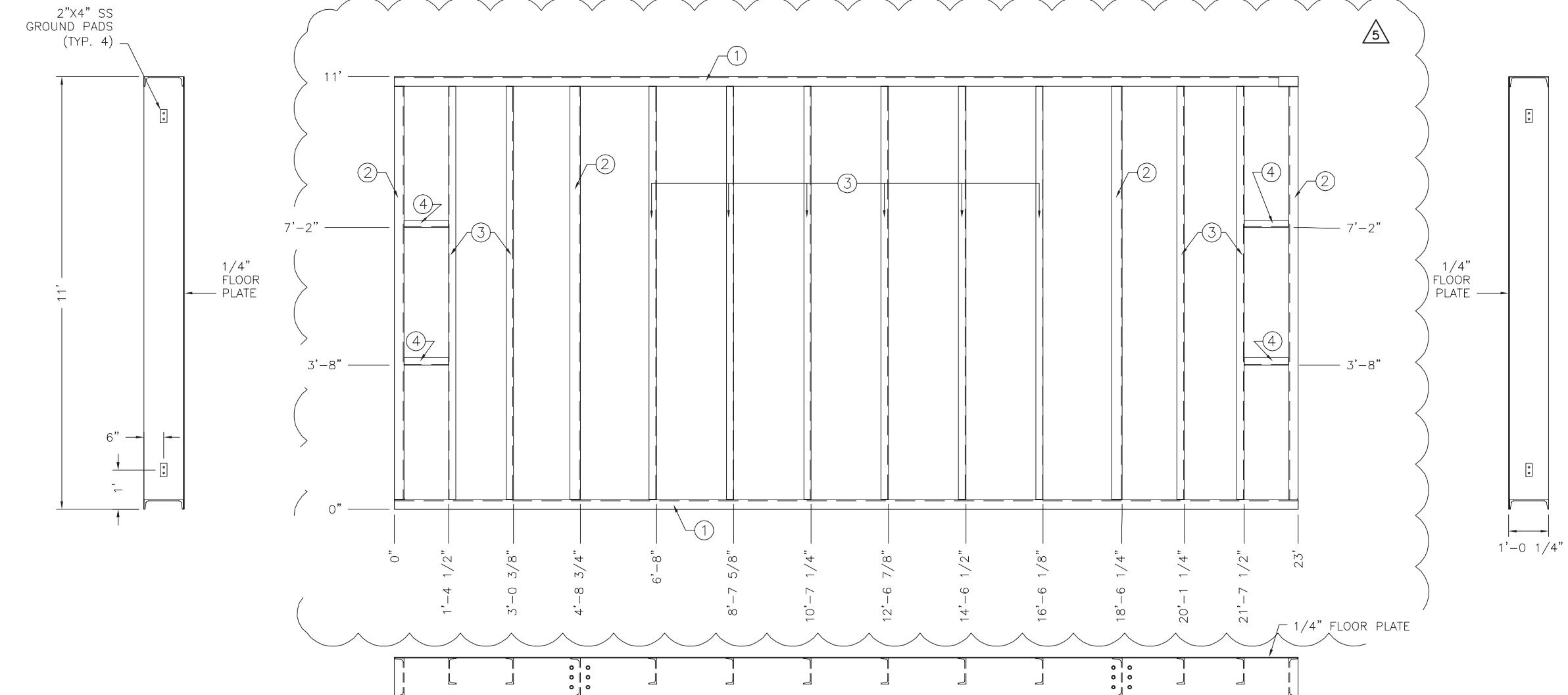
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STRUCTURAL CUT LIST			
ITEM	DESCRIPTION	CUT LENGTH	QTY
1	C12 x 20.7#	23'-0"	2
2	C12 x 20.7#	10'-8 13/16"	4
3	C8 x 11.5#	10'-8 13/16"	10
4	C8 x 11.5#	1'-1 9/16"	4

Notes:

DESCRIPTION		QTY
LIFTING HARDWARE		
7/8-9 X 3 A325 HEX BOLT		24
7/8-9 WELD NUT		24
7/8 FLAT WASHER		24
7/8 LOCK WASHER		24
DESCRIPTION		QTY
BASE HARDWARE		
3/4-10 X 3 HEX BOLT		10
3/4-10 HEX NUT		10
3/4 FLAT WASHER		20
3/4 LOCK WASHER		10



Rev: 5 Date: 05/16/2013 By: KS Appr.: GD  
 Removed bill pan per PM email, rem. soft access cutouts  
 Rev: 4 Date: 04/26/2013 By: KS Appr.: GD  
 Rev. Lifting lug details  
 Rev: 3 Date: 03/15/2013 By: KS Appr.: GD  
 Added structural cutlist and labels  
 Rev: 2 Date: 06/26/2012 By: KS Appr.: GD  
 Rev. Line item#, enlarge GIS switch floor cutouts  
 Rev: 1 Date: 06/23/2012 By: KS Appr.: GD  
 Added hardware list, rev. welding note  
 Rev: 0 Date: 06/20/2012 By: KS Appr.: GD  
 For Construction  
 Rev: B Date: 05/08/2012 By: KS Appr.: CB  
 Added cutouts and bely pan  
 Rev: A Date: 04/03/2012 By: KS Appr.: CB  
 For Approval

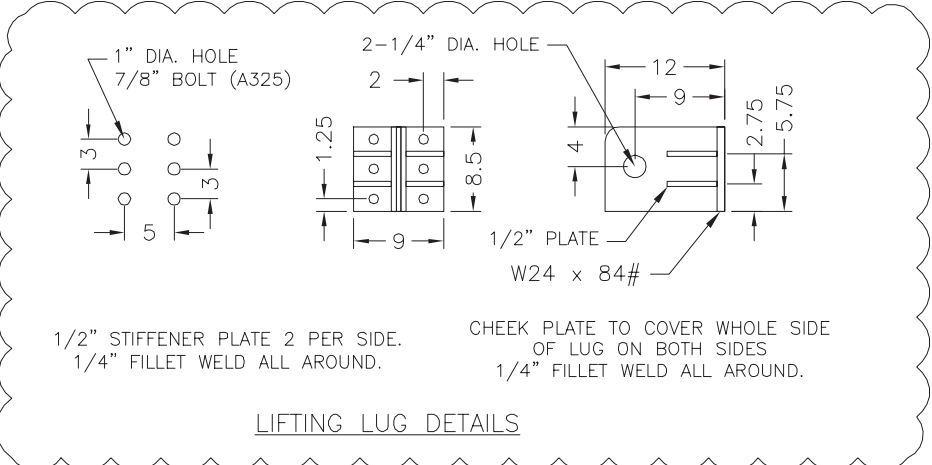
Revision Information:

CONTROLLED	
<input type="checkbox"/> Revised	<input type="checkbox"/> FI - For Information Only
<input type="checkbox"/> PR - Preliminary	<input type="checkbox"/> CC - For Construction
<input type="checkbox"/> AP - For Approval	<input type="checkbox"/> AS - Certified "AS BUILT"
<input type="checkbox"/> IN - For Inspection	

**SIEMENS**

6510 Bourgeois Road  
 Houston, Texas  
 77066-3111

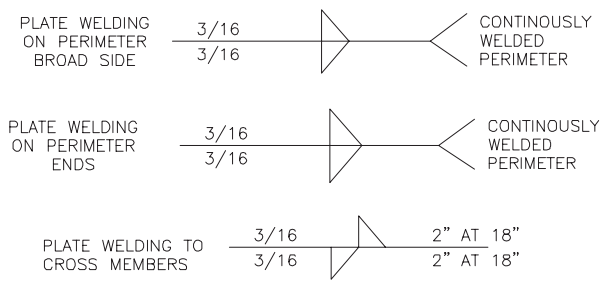
Central Maine Power Company  
 PO# 4500250330  
 Central Maine Power  
 Augusta, Maine  
 Union Street Substation  
 Power Equipment Center (PEC)  
 Union Street 34.5kV & 11kV SWGR Replacement



SKID "A"  
 (SECTION "A")

Title: PEC SKID "A" DETAILS  
 Project: 30102029 LE: CMB ED/SD: KS  
 Drawing: PEC12-30102029-0300-PB01 Sheet: 1 of 1  
 Print reduction scale: Scale: 18  
 0" 1" 2" 3"



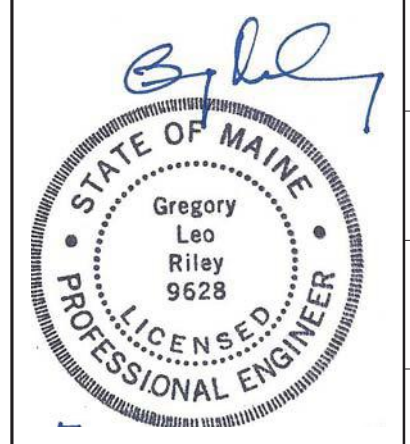
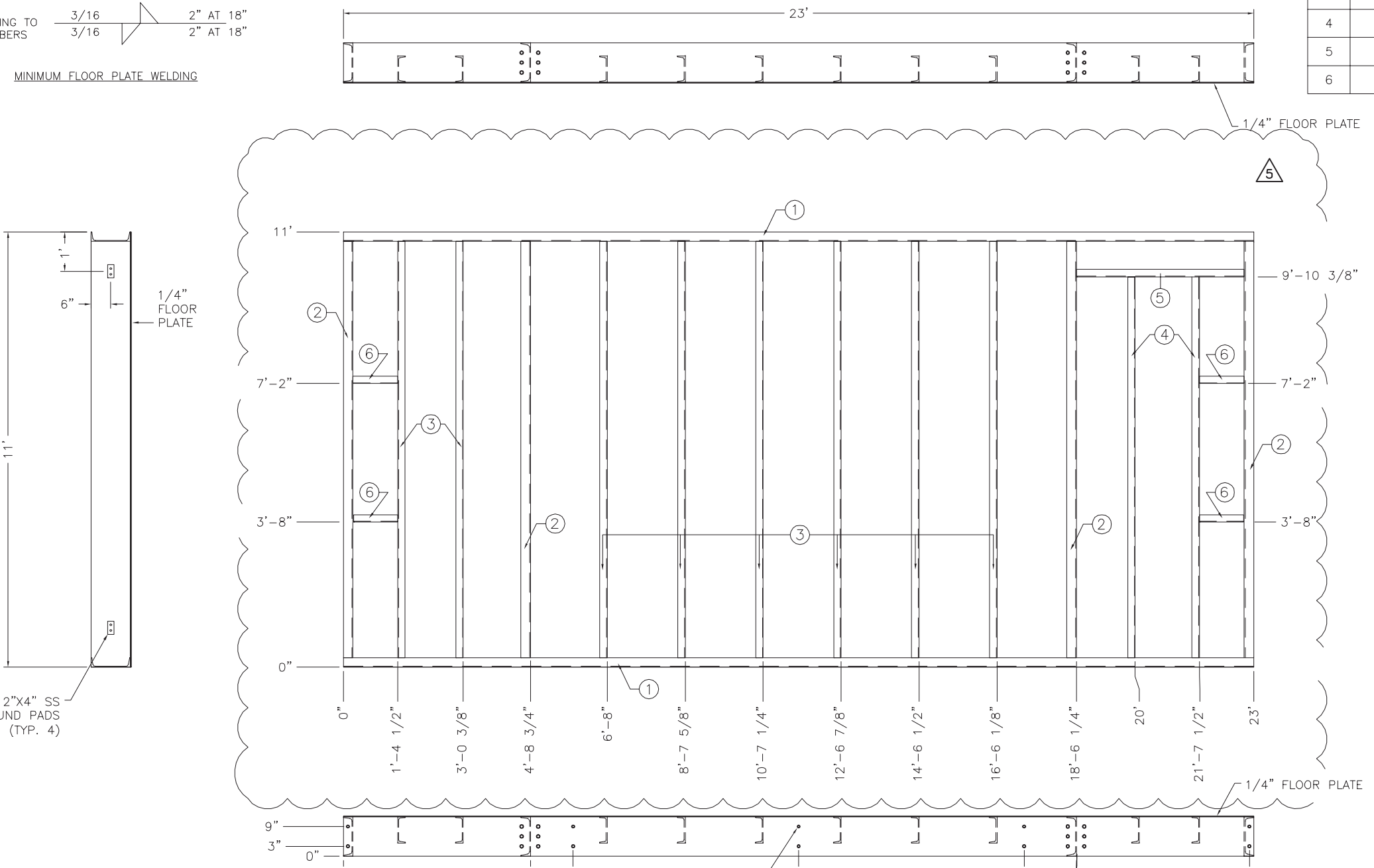


STRUCTURAL CUT LIST			
ITEM	DESCRIPTION	CUT LENGTH	QTY
1	C12 x 20.7#	23'-0"	2
2	C12 x 20.7#	10'-8 13/16"	4
3	C8 x 11.5#	10'-8 13/16"	8
4	C8 x 11.5#	9'-10 1/8"	2
5	C8 x 11.5#	4'-2 13/16"	1
6	C8 x 11.5#	1'-1 9/16"	4

Notes:

DESCRIPTION		QTY
LIFTING HARDWARE		
7/8-9 X 3 A325 HEX BOLT		24
7/8-9 WELD NUT		24
7/8" FLAT WASHER		24
7/8" LOCK WASHER		24

BASE HARDWARES REFER TO DWG# PEC12-30102029-0100-PB01



Revision Information:

Rev: 5	Date: 05/08/2013	By: KS	Appr.: GD
Removed Billy pan, added ac panel cutouts			
Rev: 4	Date: 04/26/2013	By: KS	Appr.: GD
Rev. lifting lug details			
Rev: 3	Date: 03/15/2013	By: KS	Appr.: GD
Added floor cutout, added structural cutlist, labeled			
Rev: 2	Date: 06/26/2012	By: KS	Appr.: GD
Rev. line item#, enlarge GIS switchgear cutouts			
Rev: 1	Date: 06/23/2012	By: KS	Appr.: GD
Rev. welding note			
Rev: 0	Date: 06/20/2012	By: KS	Appr.: GD
For Construction			
Rev: B	Date: 05/08/2012	By: KS	Appr.: CB
Added cutouts and billy pan			
Rev: A	Date: 04/03/2012	By: KS	Appr.: CB
For Approval			

CONTROLLED	
<input type="checkbox"/> Revised	<input type="checkbox"/> FI - For Information Only
<input type="checkbox"/> PR - Preliminary	<input type="checkbox"/> AP - For Approval
<input type="checkbox"/> AP - For Approval	<input type="checkbox"/> CC - For Construction
<input type="checkbox"/> IN - For Inspection	<input type="checkbox"/> AS - Certified "AS BUILT"

**SIEMENS**

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PO# 4500250330  
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Union Street Substation  
Power Equipment Center (PEC)  
Union Street 34.5kV & 11kV SWGR Replacement

Title: PEC SKID "B" DETAILS	
Project: 30102029	LE: CMB
Drawing: PEC12-30102029-0300-PB02	Sheet: 1 of 1
Print reduction scale: 0" = 1" = 2" = 3"	Scale: 18

