



Department of Building & Grounds  
 Architectural Services Division  
 City of Baton Rouge  
 Parish of East Baton Rouge  
 P.O. Box 1471  
 Baton Rouge, Louisiana 70821  
 225 389-4694 Voice  
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**ADDENDUM #2**

**March 12, 2024**

**TO ALL BIDDERS**

**PROJECT: EMS STATION NO. 9  
 CITY PARISH PROJECT NO. 21-ASC-CP-1495**

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

1. Please see attached Addendum from WTD ARCHITECTURE (97 Pages.)

TOTAL PAGES .....97 (SPECIFICATIONS)  
 TOTAL PAGES .....98 (INCLUDING THIS PAGE)

**FAILURE TO INDICATE RECEIPT OF THIS ADDENDUM ON BID FORM MAY BE CAUSE FOR THE BID TO BE REJECTED**

June Tran, AIA  
 Senior Architect  
 Architectural Services Division  
 1100 Laurel St Rm 231  
 Baton Rouge, LA 70802

## Addendum #2

### TO ALL CONTRACTORS:

This Addendum is hereby made a part of the Contract Documents dated 2-9-2024

**New EMS Station No. 9  
8850 Connell's Village Lane  
Baton Rouge, LA 70815**

**CITY PARISH PROJECT NO: 21-ASC-CP-1495**

The following items shall be considered part of the contract documents and shall be included in the same when Construction Contract is executed. Changes made by Addenda shall take precedence over Original Documents. Any changes, which may affect construction or proper installation of materials, equipment or fixtures, not specifically mentioned in this addendum, shall be brought to the attention of Designer before submitting bid. Otherwise, such conditions, if found later to exist, must be worked out in an acceptable manner without additional cost to the Owner. Prime Contractors are hereby advised to call attention of all subcontractors to changes, which may affect their work.

#### General:

- Incorporate "Add Alternate #1" as follows –
  - Provide pricing for removal of existing stored construction materials staged on existing project site and adjacent parking area. Materials shall be relocated to neighboring parking lot directly across the main drive, southwest of the project site. Refer to attached A-SK1 for an enlarged site aerial which indicates extents of existing materials and precise area of relocation. Additionally, a list of said materials is attached for quantification purposes. Bidders are strongly encouraged to review and verify scope of Alternate #1 on site prior to bid.
- All Utility Fees – The Owner will pay for the following fees directly: Permit Fees, Sewer Impact Fees and Traffic Impact Fees. Contractor shall be responsible for coordinating all connections to existing public utility systems with the appropriate agency/company having ownership of the respective utility system, and shall include all costs, fees, permits, etc. in bid.
- Fire Alarm Clarification: The Fire Alarm System shall be a horn/strobe system as indicated on the drawings. The remote annunciator shall be located in OPS 100 as directed by the Architect. Duct Detectors are not required as the condensing units are 4-ton and the AHU's are rated at 1600 CFM.
- Connections to the existing public sewer system shall be performed by a municipally-licensed plumber. Per Charles Burris with the Subdivision Engineering office, there is no known existing sewer wye at the proposed connection to the existing public sewer system. Obtain sewer wye permit from Jake Daigle (225-389-3198 ext. 5888 / [jdaigle@bria.gov](mailto:jdaigle@bria.gov)) before installing new sewer wye.
- Clarification: Project does not have sales tax exempt status.

#### Drawings:

- Sheet A1.01 – Floor Plan
  - Biohazard 118, Tank Room 117, and Supply 115 shall receive ¾" Fire Retardant Plywood Decking above ceiling framing
- Sheet A4.01 – Finish Plan & Finish Schedules
  - Finish Key
    - DP-1 Diamond Plate – Notes
      - Add "Diamond Plate wall covering shall be 18 GA. min. aluminum and shall include pre-formed inside corners and outside corner guards."

#### Specifications:

- Section 087100 – Door Hardware
  - 3.8 – Set 7.0
    - Door 117 Hardware Shall conform with requirements for 1 hour rated assembly
- Section 074113 – Metal Roof Panels

- 2.1.B.7
  - Delete “Finish to be selected from manufacturer’s standard color selection.” and replace with “Finish to be selected from manufacturer’s standard and metallic color options.”
- Section 042000 – Unit Masonry
  - 2.3.B Face Brick – Omit from specifications, replace with:
    - B. Face Brick: Modular Exterior Façade Face Brick shall be priced based on the Manufacturer’s Line listed. The final selection will be made after the Mock up is constructed. Provide Mock up with all masonry type at designated location.
      - a. Cloud Ceramics – Cloud Gray (Basis of Design)
      - b. Acme Brick
      - c. Hanson Brick
      - d. Boral Brick
      - e. Columbus Brick
      - f. Cherokee Brick and Tile Company
  - 2.4 Cast Stone Masonry Units: Omit from Specifications
- Section 064023 – Interior Architectural Woodwork
  - Remove entire specification section and replace with specification section attached to Addendum No. 2.
- Section 072100 – Building Insulation
  - Add the following part to the spec section:
    - 2.6 Cover board
      - A. High-Density Polyisocyanurate: ASTM C 1289, Type II, Class 4, Grade 3, High-density Polyisocyanurate technology bonded in-line to mineral-surfaced, fiber glass reinforced facers with greater than 140 lbs of compressive strength. Basis of design: Invinsa Roof Board
      - B. General: Preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.
      - C. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1 , Grade 2 (20 psi), Basis of design: ENRGY 3
        - 1. Provide insulation package with minimum thickness: 2 layers as required to achieve total insulation resistance value of R-25.
        - 2. Provide insulation package in multiple layers.
        - 3. Minimum Long-Term Thermal Resistance (LTTR): 5.7 per inch.
          - a. Determined in accordance with CAN/ULC S770 at 75°F (24°C)
- Section 093000 – Tiling
  - 2.6A – Omit
  - 2.6B- Omit – Replace with:

- A. Epoxy Grout (for floors and walls): ANSI A118.3, provide product capable of resisting continuous and intermittent exposure to temperatures of up to 140 deg F (60 deg C) and 212 deg F (100 deg C), respectfully, as certified by mortar manufacturer for intended use. Grout color as selected by Architect from manufacturer's full range of colors.
  - 1. Manufacturer:
    - a. Custom Building Products – 100% Epoxy Grout
    - b. Laticrete International, Inc. – SpectraLOCK
    - c. Or approved equal.

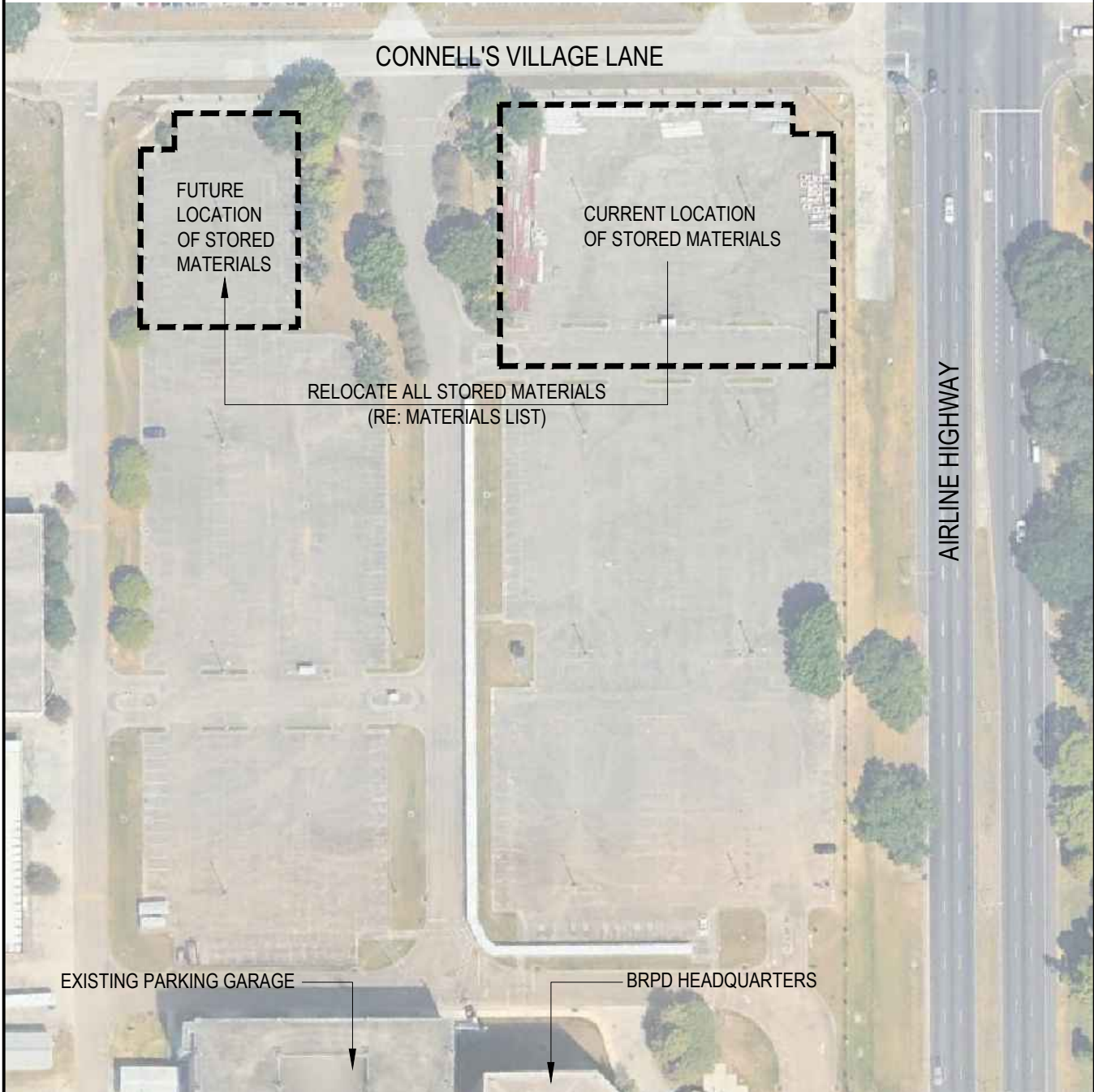
**Prior Approvals:**

The following manufacturers are considered equal to that specified in name brand only. However, neither the full effects of using them nor the compatibility with the entire project have been evaluated. Any required changes or modifications to the project resulting from substitution(s) will be the responsibility of the contractor.

<u>Item</u>	<u>Manufacturer</u>
Metal Roof Panels	Berridge
2 Stage Split System	Carrier
Ductless Mini Split Heat Pump	Carrier
Unit Masonry	Cloud Ceramics
Lighting	Lithonia
Lighting	EELP
Lighting Controls	Acuity

**END OF ADDENDUM NO. TWO**





# New EMS Station No. 9

CITY-PARISH PROJECT NO. 21-ASC-CP-1495  
Public Safety Complex  
8850 Connell's Village Lane  
Baton Rouge, LA 70815

**Description:**

STORED  
MATERIALS  
RELOCATION -  
ADD ALTERNATE #1

**Sketch #:**

# A-SK1

**Date:** 03-12-2024  
**Scale:** NTS



## Stored Material

SIENNA CONSTRUCTION LLC

Project No 21-ASC-CP-1286

Date: 8/31/2023

Project Name: EMS HEADQUARTERS PHASE II VEHICLE STORAGE AND MAINTENANCE

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### Stored Materials

Subcontractor/Vendor	Documentation	Breakdown Item	Location
<u>Building Insulation - Bay Insulation</u>	<u>Picking List Attached</u>	<u>001</u>	<u>Sienna Warehouse</u>
<u>Catch Basins - Gainey</u>	<u>Gainey Submittal</u>	<u>002</u>	<u>Connels Village Lane</u>
<u>Dock Leveler - Avallone</u>	<u>Avallone Submittal</u>	<u>003</u>	<u>Connels Village Lane</u>
<u>PEMB - American Steel</u>	<u>Part List, Construction set</u>	<u>004</u>	<u>Connels Village Lane</u>
<u>Shade Structure - Alliance</u>	<u>Shipper, Construction Set</u>	<u>005</u>	<u>Connels Village Lane</u>
<u>Interior Signage - Elkins Fontenot</u>	<u>Elkins Fontenot Submittal</u>	<u>006</u>	<u>Sienna Office</u>
<u>Electrical Fixture and Gear - TC Electric</u>	<u>TC Electrical Submittals</u>	<u>007</u>	<u>Connels Village Lane</u>
<u>HVAC Equipment and Gear - Comfort Contro</u>	<u>Comfort Control List</u>	<u>008</u>	<u>CC Warehouse</u>
<u>Doors and Frames - Allrite</u>	<u>All Rite List</u>	<u>009</u>	<u>All Rite WH</u>
<u>VCT Flooring and Adhesive - Paul Sita</u>	<u>Paul Sita Letter</u>	<u>010</u>	<u>Paul Sita WH</u>
<u>Metal Bollards</u>	<u>Four Star Letter</u>	<u>011</u>	<u>FourStar WH</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

**Up to Bottom**

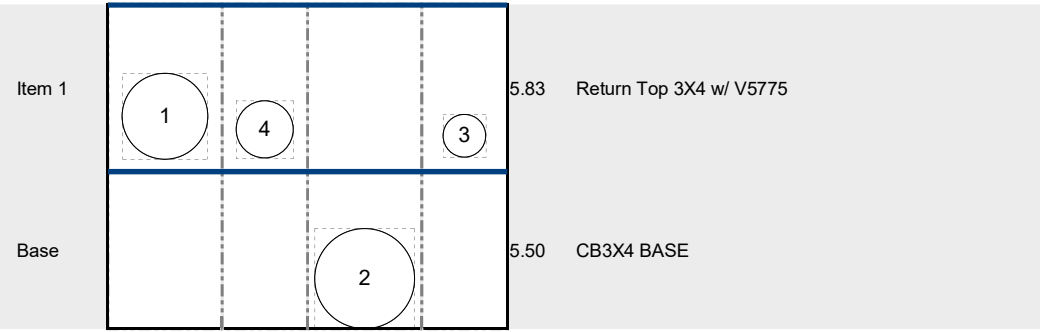
Structure Code: **A1** Type: **Storm**  
 Station: Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 70" w/ V5775	1.89	7.546
Base	CB3X4B	1	CB3X4 BASE x 66"	1.81	7.272
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>3.70</b>	<b>15,160</b>

**Inside Area View**

Rim to Invert	5.33'	Precast Height	11.33'	Wall	6.00"
Less Casting	5.33'	Floor	6.00"	Sump	0.00'
Invert to Floor	6.02'	Plus Floor	11.83'		
Adjustment (Brick/Mort.)	0.02				



**Elevations**

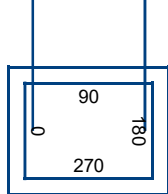
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	56.67	270	30 A2000	Hole:Ch,0	36	36	5	Item 1
(2)	50.94	90	30 RCP	HOLE:Ch,0	42	42	0	Base
(3)	56.67	0	15 A-2000	Hole:Ch,0	18	18	6	Item 1
(4)	56.67	180	18 A2000	Hole:Ch,0	24	24	5.5	Item 1
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 66"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

30 RCP/HOLE:Ch,0  
 H 42" / W 42.00"  
 L 3.00 / R 3.00  
 Up: 0" / Ang 90



---- Side 36.0" ----

---- Side 48.0" ----



SIENNA CONSTRUCTION LLC

By: Preston Thibodeaux

Date: 9/28/2021

- No Exceptions Taken       Make Corrections Noted  
 Revise & Resubmit       Rejected

Review is only for general compliance with the design concept and the information given in the contract documents. Any action shown is subject to the requirements of the contract documents for; dimension and quantities, which shall be confirmed and correlated at the job site; fabrication processes and techniques of all construction; coordination of his/her work and that of all other trades; and the satisfactory execution of the work.

**SHOP DRAWING REVIEW**

ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
No Exceptions Taken <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Resubmit <input type="checkbox"/>
Note Markings <input type="checkbox"/> Not Reviewed <input type="checkbox"/>	Resubmit For Records <input type="checkbox"/>

Engineer's review is for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures therefrom. The contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing his work in a safe manner.

By Lyle Tynes Date 10/4/21

**Ganey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **A2**  
 Station:

**Up to Bottom**

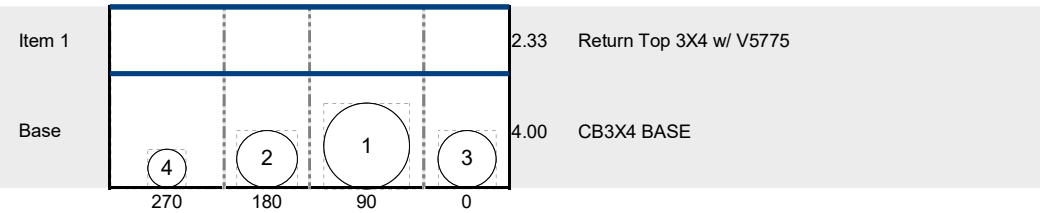
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 28" w/ V5775	1.07	4.296
Base	CB3X4B	1	CB3X4 BASE x 48"	1.29	5.137
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>2.36</b>	<b>9,775</b>

**Inside Area View**

Rim to Invert	6.30'	Precast Height	6.33'	Wall	6.00"
Less Casting	6.30'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	6.83'		
Adjustment (Brick/Mort.)	0.02				



**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	64.2							
(1)	57.9	90	30 A2000	Hole:Ch,0	36	36	-0.5	Base
(2)	57.9	200	18 A2000	Hole:Ch,0	24	24	0	Base
(3)	57.9	350	18 A2000	Hole:Ch,0	24	24	0	Base
(4)	57.9	270	12 A-2000	Hole:Ch,0	16	16	0	Base
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

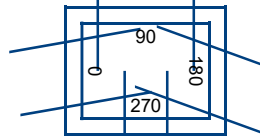
Description: **CB3X4 BASE x 48"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

30 A2000/Hole:Ch,0  
 H 36" / W 36.00"  
 L 6.00 / R 6.00  
 Up: -0.5" / Ang 90

18 A2000/Hole:Ch,0  
 H 24" / W 24.37"  
 L 6.05 / R 5.58  
 Up: 0" / Ang 350



18 A2000/Hole:Ch,0  
 H 24" / W 25.54"  
 L 5.37 / R 5.09  
 Up: 0" / Ang 200

12 A-2000/Hole:Ch,0  
 H 16" / W 16.00"  
 L 16.00 / R 16.00  
 Up: 0" / Ang 270

---- Side 48.0" ----

**Ganey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **A3**  
 Station:

**Up to Bottom**

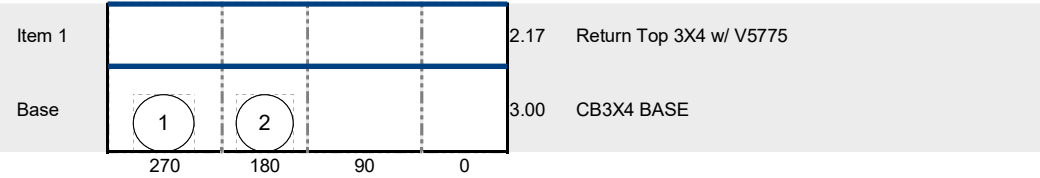
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 26" w/ V5775	1.03	4.104
Base	CB3X4B	1	CB3X4 BASE x 36"	1.15	4.618
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>2.18</b>	<b>9,064</b>

**Inside Area View**

Rim to Invert	5.15'	Precast Height	5.17'	Wall	6.00"
Less Casting	5.15'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	5.67'		
Adjustment (Brick/Mort.)	0.03				



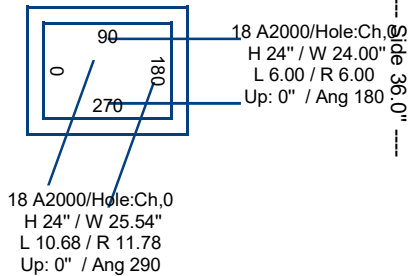
**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	63.5							
(1)	58.35	290	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	58.35	180	18 A2000	Hole:Ch,0	24	24	0	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 36"**

Product ID: **CB3X4B**

Item: **Base** Step Location:



---- Side 48.0" ----

**Ganey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **A4**  
 Station:

**Up to Bottom**

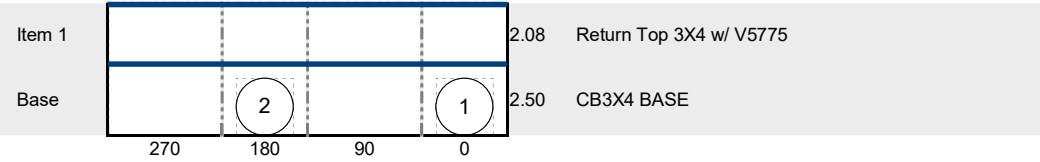
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 25" w/V5775	1.00	3.996
Base	CB3X4B	1	CB3X4 BASE x 30"	1.00	4.018
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>2.00</b>	<b>8,356</b>

**Inside Area View**

Rim to Invert	4.57'	Precast Height	4.58'	Wall	6.00"
Less Casting	4.57'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	5.08'		
Adjustment (Brick/Mort.)	0.04				



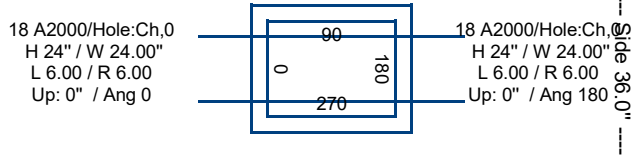
**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	63.5							
(1)	58.93	0	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	58.93	180	18 A2000	Hole:Ch,0	24	24	0	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 30"**

Product ID: **CB3X4B**

Item: **Base** Step Location:



**Ganey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **A5**  
 Station:

**Up to Bottom**

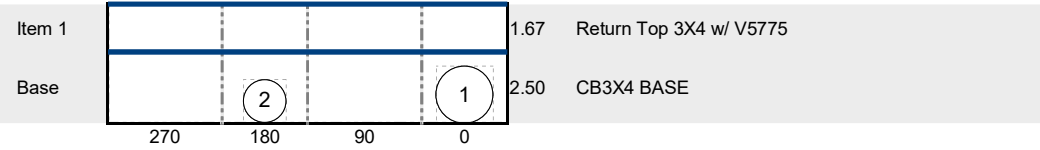
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 20" w/ V5775	0.88	3,504
Base	CB3X4B	1	CB3X4 BASE x 30"	1.03	4,126
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>1.91</b>	<b>7,972</b>

**Inside Area View**

Rim to Invert	4.11'	Precast Height	4.17'	Wall	6.00"
Less Casting	4.11'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	4.67'		
Adjustment (Brick/Mort.)	-0.01				



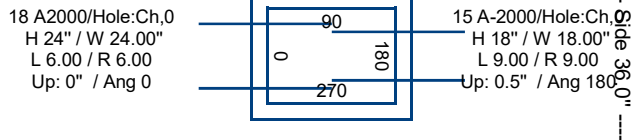
**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	63.5							
(1)	59.39	0	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	59.39	180	15 A-2000	Hole:Ch,0	18	18	0.5	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 30"**

Product ID: **CB3X4B**

Item: **Base** Step Location:



---- Side 48.0" ----

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **A6**  
 Station:

**Up to Bottom**

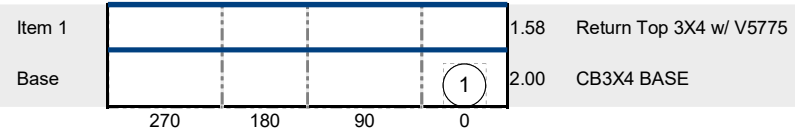
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 19" w/ V5775	0.85	3.396
Base	CB3X4B	1	CB3X4 BASE x 24"	0.95	3.767
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>1.80</b>	<b>7,505</b>

**Inside Area View**

Rim to Invert	3.56'	Precast Height	3.58'	Wall	6.00"
Less Casting	3.56'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.03'	Plus Floor	4.08'		
Adjustment (Brick/Mort.)	0.01				



**Elevations**

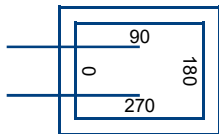
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	63.5							
(1)	59.94	0	15 A-2000	Hole:Ch,0	18	18	0	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 24"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

15 A-2000/Hole:Ch,0  
 H 18" / W 18.00"  
 L 9.00 / R 9.00  
 Up: 0" / Ang 0



---- Side 36.0" ----

---- Side 48.0" ----



**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

**Up to Bottom**

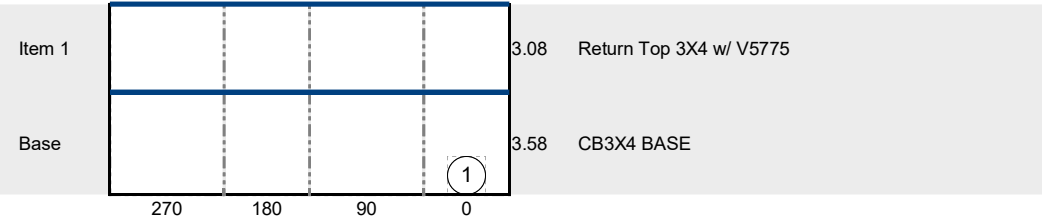
Structure Code: **A11** Type: **Storm**  
 Station: Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 37" w/ V5775	1.30	5.196
Base	CB3X4B	1	CB3X4 BASE x 43"	1.42	5.691
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
	<b>Structure Totals</b>				<b>2.72</b>

**Inside Area View**

Rim to Invert	6.62'	Precast Height	6.66'	Wall	6.00"
Less Casting	6.62'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.03'	Plus Floor	7.16'		
Adjustment (Brick/Mort.)	-0.01				



**Elevations**

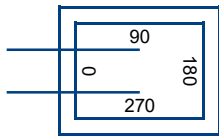
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	64.7							
(1)	58.08	0	12 A-2000	Hole:Ch,0	16	16	0	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 43"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

12 A-2000/Hole:Ch,0  
 H 16" / W 16.00"  
 L 10.00 / R 10.00  
 Up: 0" / Ang 0



---- Side 36.0" ----

---- Side 48.0" ----

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

**Up to Bottom**

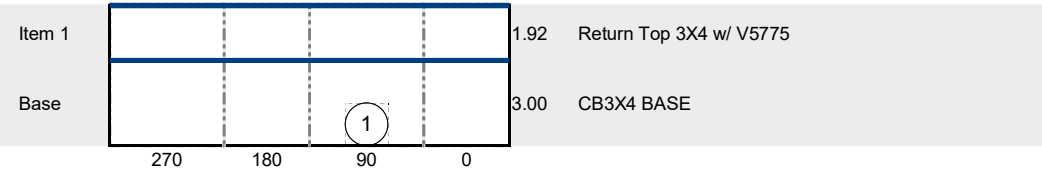
Structure Code: **A12** Type: **Storm**  
 Station: Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 23" w/ V5775	0.95	3.804
Base	CB3X4B	1	CB3X4 BASE x 36"	1.24	4.967
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>2.19</b>	<b>9,113</b>

**Inside Area View**

Rim to Invert	4.93'	Precast Height	4.92'	Wall	6.00"
Less Casting	4.93'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.03'	Plus Floor	5.42'		
Adjustment (Brick/Mort.)	0.04				



**Elevations**

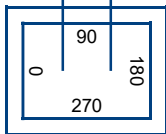
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	57.07	90	15 A-2000	Hole:Ch,0	18	18	0	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 36"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

15 A-2000/Hole:Ch,0  
 H 18" / W 18.00"  
 L 15.00 / R 15.00  
 Up: 0" / Ang 90



---- Side 36.0" ----

---- Side 48.0" ----

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

**Up to Bottom**

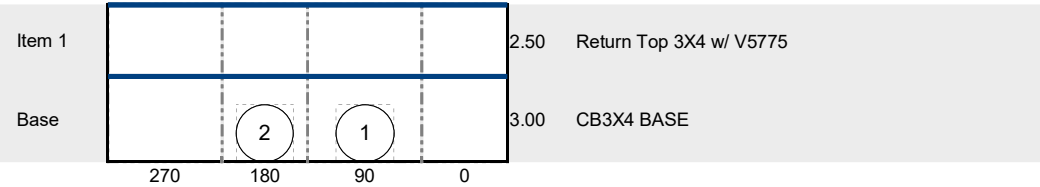
Structure Code: **B1** Type: **Storm**  
 Station: Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 30" w/ V5775	1.12	4.500
Base	CB3X4B	1	CB3X4 BASE x 36"	1.15	4.618
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>2.27</b>	<b>9,460</b>

**Inside Area View**

Rim to Invert	5.47'	Precast Height	5.50'	Wall	6.00"
Less Casting	5.47'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	6.00'		
Adjustment (Brick/Mort.)	0.02				



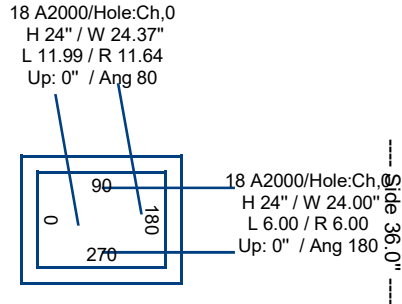
**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	63.8							
(1)	58.33	80	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	58.33	180	18 A2000	Hole:Ch,0	24	24	0	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 36"**

Product ID: **CB3X4B**

Item: **Base** Step Location:



---- Side 48.0" ----

**Ganey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **B2**  
 Station:

**Up to Bottom**

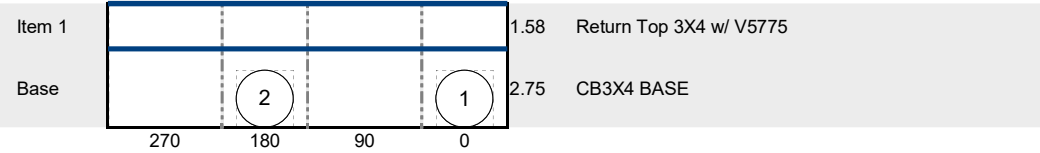
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 19" w/ V5775	0.85	3.396
Base	CB3X4B	1	CB3X4 BASE x 33"	1.08	4.318
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>1.93</b>	<b>8,056</b>

**Inside Area View**

Rim to Invert	4.29'	Precast Height	4.33'	Wall	6.00"
Less Casting	4.29'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	4.83'		
Adjustment (Brick/Mort.)	0.01				



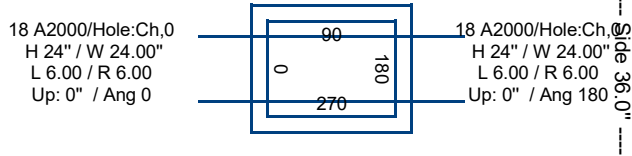
**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	58.71	0	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	58.71	180	18 A2000	Hole:Ch,0	24	24	0	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 33"**

Product ID: **CB3X4B**

Item: **Base** Step Location:



---- Side 48.0" ----

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **B3**  
 Station:

**Up to Bottom**

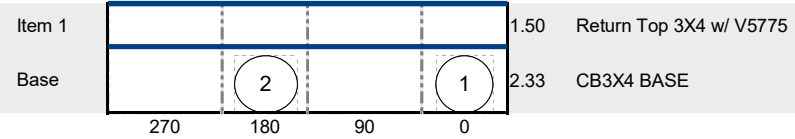
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 18" w/ V5775	0.82	3.300
Base	CB3X4B	1	CB3X4 BASE x 28"	0.95	3.814
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>1.77</b>	<b>7,456</b>

**Inside Area View**

Rim to Invert	3.79'	Precast Height	3.83'	Wall	6.00"
Less Casting	3.79'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	4.33'		
Adjustment (Brick/Mort.)	0.01				



**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	59.21	0	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	59.21	155	18 A2000	Hole:Ch,0	24	24	0	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

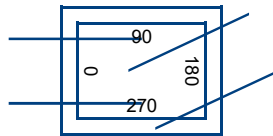
Description: **CB3X4 BASE x 28"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

18 A2000/Hole:Ch,0  
 H 24" / W 26.48"  
 L 5.31 / R 4.21  
 Up: 0" / Ang 155

18 A2000/Hole:Ch,0  
 H 24" / W 24.00"  
 L 6.00 / R 6.00  
 Up: 0" / Ang 0



---- Side 36.0" ----

---- Side 48.0" ----

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **B4**  
 Station:

**Up to Bottom**

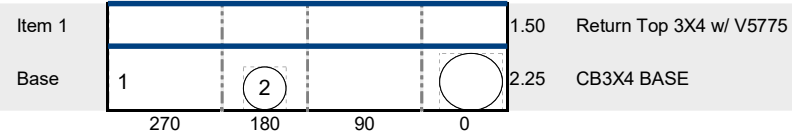
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 18" w/ V5775	0.82	3.300
Base	CB3X4B	1	CB3X4 BASE x 27"	0.96	3.826
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>1.78</b>	<b>7,468</b>

**Inside Area View**

Rim to Invert	3.70'	Precast Height	3.75'	Wall	6.00"
Less Casting	3.70'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.05'	Plus Floor	4.25'		
Adjustment (Brick/Mort.)	0.00				



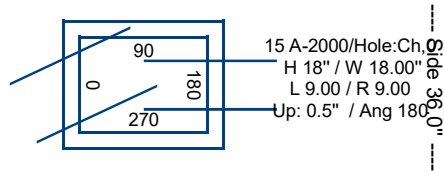
**Elevations**

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	63.2							
(1)	59.5	335	18 A2000	Hole:Ch,0	24	24	0	Base
(2)	59.5	180	15 A-2000	Hole:Ch,0	18	18	0.5	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 27"**

Product ID: **CB3X4B**

Item: **Base** Step Location:



18 A2000/Hole:Ch,0  
 H 24" / W 26.48"  
 L 5.31 / R 4.21  
 Up: 0" / Ang 335

---- Side 48.0" ----

**Gainey's Concrete Products**

Job: **21-1474** Customer: **Siema Construction, LLC**  
 Job Name: **EMS HQ Phase 2**

Structure Code: **B5**  
 Station:

**Up to Bottom**

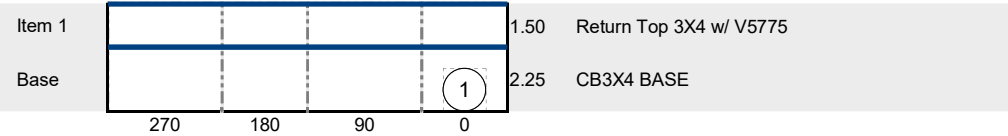
Type: **Storm**  
 Description: **Precast Drain Inlets (702-20 Type 3)**

**Structure Product Detail**

Item	Product	Qty	Product Description	Yards	Weight
Item 1	RT3X4	1	Return Top 3X4 x 18" w/ V5775	0.82	3.300
Base	CB3X4B	1	CB3X4 BASE x 27"	1.02	4.067
	V5775 F	1	V5775 Frame	0.00	85
	V5775 G	1	V5775 Grate	0.00	257
	1 1/4 TS	2	1 1/4" Tarseal	0.00	0
<b>Structure Totals</b>				<b>1.84</b>	<b>7,709</b>

**Inside Area View**

Rim to Invert	3.75'	Precast Height	3.75'	Wall	6.00"
Less Casting	3.75'	Floor	6.00"	Sump	0.00'
Invert to Floor	0.03'	Plus Floor	4.25'		
Adjustment (Brick/Mort.)	0.03				



**Elevations**

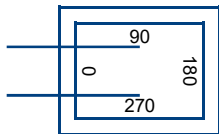
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	63.8							
(1)	60.05	0	15 A-2000	Hole:Ch,0	18	18	0	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: **CB3X4 BASE x 27"**

Product ID: **CB3X4B**

Item: **Base** Step Location:

15 A-2000/Hole:Ch,0  
 H 18" / W 18.00"  
 L 9.00 / R 9.00  
 Up: 0" / Ang 0



---- Side 36.0" ----

---- Side 48.0" ----



PO Box 338  
 Spring Hill, TN 37174  
 1.800.251.3382  
 Fax: 931.486.0316

# Model: P6H1018

**Model: P6H1018**

Size

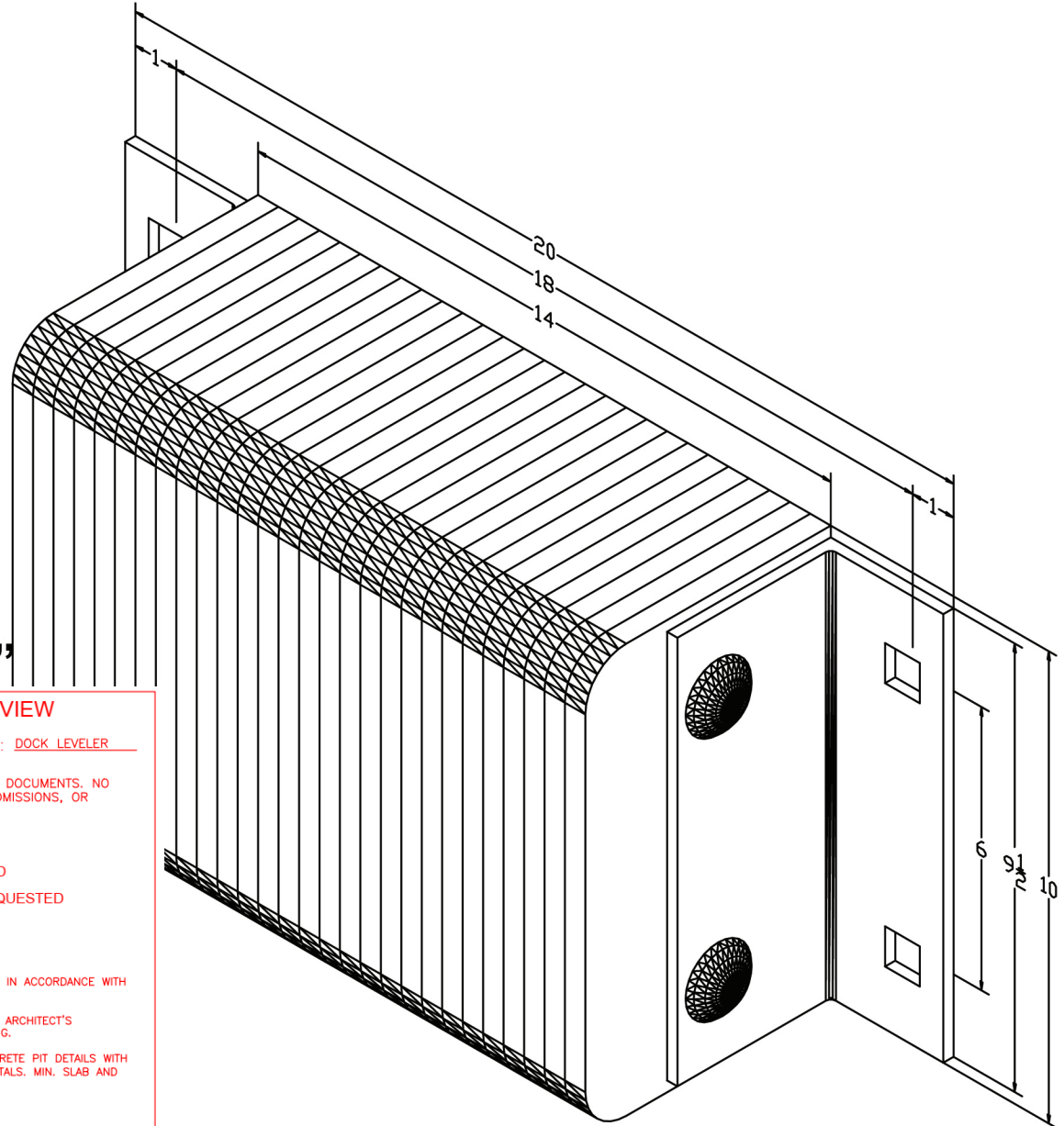
**Projection 6"**  
**Height 10"**

Length:

**- Overall 20"**  
**- Anchor Holes 18"**  
**- Rubber 14"**  
**Angle Size (2) 1/4"x3"x4"x9-1/2"**

**Date: 02/26/07**

**All measurements are +/- 1/8"**



**SHOP DRAWING REVIEW**

PROJECT: EMS - PHASE II SUBMITTAL: DOCK LEVELER

REVIEW IS FOR COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR ERRORS, OMISSIONS, OR CORRECTNESS OF DIMENSIONS OR DETAILS.

NO EXCEPTIONS TAKEN  
 MAKE CORRECTIONS NOTED  
 PROVIDE INFORMATION REQUESTED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

1) INSTALL LEVELER PIT AND ALL APPURTENANCES IN ACCORDANCE WITH MFR'S REQUIREMENTS.

2) FINISH OF ALL EXPOSED STEEL SHALL BE PER ARCHITECT'S REQUIREMENTS. TOUCH UP AS NEC. AFTER WELDING.

3) SUPPLY SHOP DRAWING WITH PROPOSED CONCRETE PIT DETAILS WITH RE-STEEL SUBMITTALS AND/OR CONCRETE SUBMITTALS. MIN. SLAB AND WALLS TO BE 8" THICK AND REINFORCED.

**STAPLES ENGINEERING & CONSULTING, L.L.C.**  
 PHONE: (337) 446-1071 ADDRESS: PO BOX 1314, YOUNGSVILLE, LA, 70592

DATE: 8/9/21 REVIEWER: CHANDLER STAPLES



# “M” Series Submittal Drawing

## “M” SERIES MECHANICAL DOCK LEVELER MODEL SPECIFICATIONS

MODEL	LIP*	DECK**	NOMINAL LENGTH	WIDTH	HINGE CF1045	SEAMLESS HINGE TUBE	OPERATING RANGE
M6625,30/M7625,30	1/2" x 16"	1/4"	6'	72"/83"	1" diameter	1 5/8" dia. O.D.	+12"-12"
M6825,30/M7825,30	1/2" x 16"	1/4"	8'	72"/83"	1" diameter	1 5/8" dia. O.D.	+12"-12"
M6635,40,45/M7635,40,45	5/8" x 16"	1/4"	6'	72"/83"	1 1/8" diameter	2" dia. O.D.	+12"-12"
M6835,40,45/M7835,40,45	5/8" x 16"	1/4"	8'	72"/83"	1 1/8" diameter	2" dia. O.D.	+12"-12"
M61025,30/M71025,30	1/2" x 16"	1/4"	10'	72"/83"	1" diameter	1 5/8" dia. O.D.	+16"-16"
M61035,40,45	5/8" x 16"	1/4"	10'	72"	1 1/8" diameter	2" dia. O.D.	+16"-16"
M71035,40,45	5/8" x 16"	1/4"	10'	83"	1 1/8" diameter	2" dia. O.D.	+16"-16"
M6650/M7650	3/4" x 16"	1/4"	6'	72"/83"	1 1/8" diameter	2 3/4" dia. O.D.	+12"-12"
M6850/M7850	3/4" x 16"	1/4"	8'	72"/83"	1 1/8" diameter	2 3/4" dia. O.D.	+12"-12"
M61050/M71050	3/4" x 16"	1/4"	10'	72"/83"	1 1/8" diameter	2 3/4" dia. O.D.	+16"-16"

### INSERT SPECIFIC JOB REQUIREMENTS FROM CHART

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#### STANDARD CAPACITY

#### A.N.S.I. CAPACITY

--	--

\* Reinforced lip hinge. \*\*\*Lip and deck, 55,000 lb. minimum yield steel; \*\*\*Models with deck width of 78" (6 1/2') are available upon request. WARRANTY: 3 years on structural members & main springs; 1 year on mechanical & misc. parts (includes materials, labor & freight).

#### STANDARD FEATURES

- (2) Laminated Bumpers
- Lip 16"
- Grease Fittings
- Working Range Toe Guards
- Dual Safety Legs
- Lip Keeper/Night Locks
- Maintenance Strut
- Automatic “Cant” Feature
- Direct Extension Spring Counter Balance (no moving parts)
- Full Length Structural “C” Channel Deck Support
- Yellow & Black Diagonal Safety Stripe on Toe Guards
- Hydra-Lip (lip is yieldable)

#### OPTIONAL FEATURES

- Lip 18"
- Lip 20"
- Abrasive Deck
- Below Dock Control
- Hot Dip Galvanized
- Guardian Lip
- Deep Pit Kit
- Weather Seals (side & rear)
- Foam Insulation
- Full Range Toe Guards (Powder Coat Yellow)
- Laminated Bumpers size \_\_\_\_\_
- Three Wheel Forklift

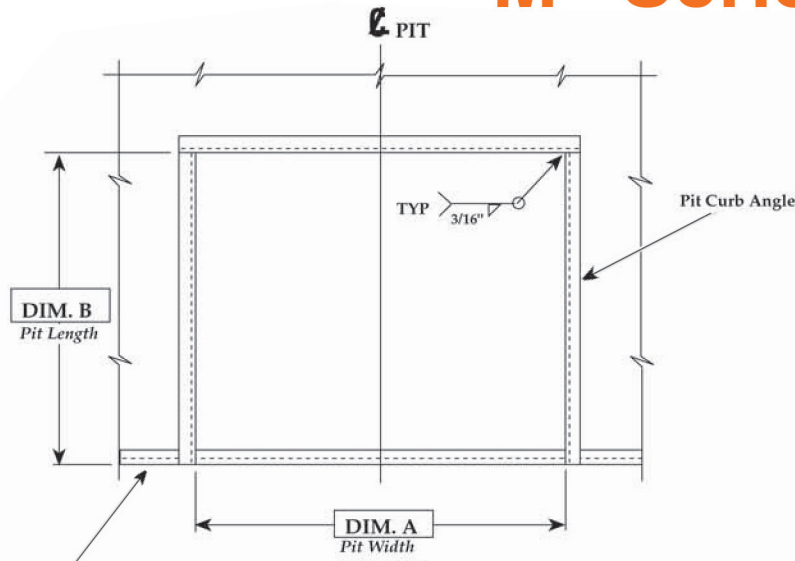


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 www.pioneerleveler.com

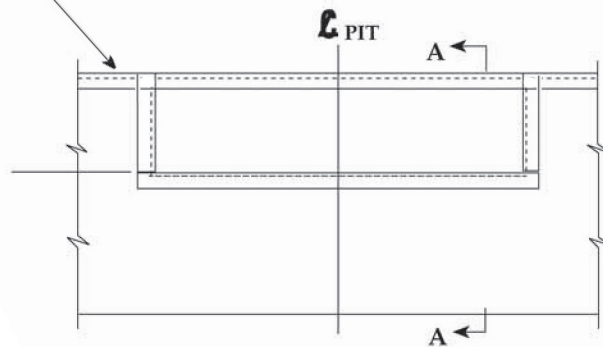
<b>JOB</b>
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Pioneer reserves the right to make product improvement at any time without prior notice.

# "M" Series Pit Detail



**\*NOTE: 1**

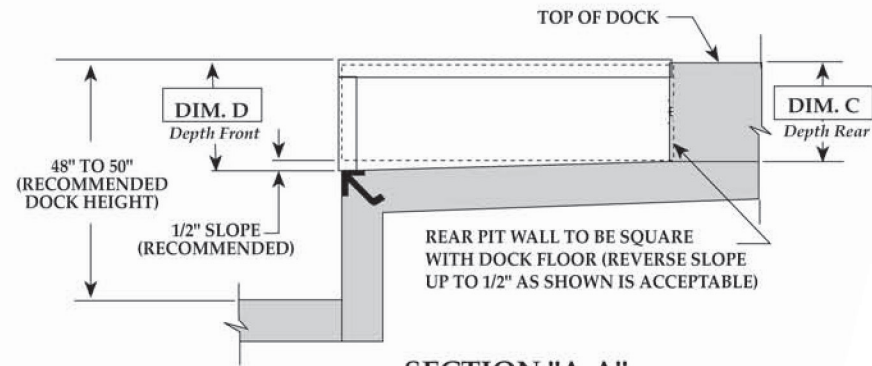


**\*NOTE 1:** Angle 3"x3"x1/4"x20"  
Minimum Length or Run  
Continuous Pit to Pit  
(Supplied By Others)

VARIABLE DIMENSIONS				
MODEL	"A"	"B"	"C"	"D"
6'W x 6'L	74"	63"	19 1/2"	20"
6'W x 8'L	74"	87"	19 1/2"	20"
6'-6"W x 6'L	80"	63"	19 1/2"	20"
6'-6"W x 8'L	80"	87"	19 1/2"	20"
7'W x 6'L	85"	63"	19 1/2"	20"
7'W x 8'L	85"	87"	19 1/2"	20"
6'W x 10'L	74"	111"	23 1/2"	24"
6'-6"W x 10'L	80"	111"	23 1/2"	24"
7'W x 10'L	85"	111"	23 1/2"	24"

INSERT SPECIFIC JOB DIMENSIONS FROM CHART

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DRAWN:	SCALE:	DATE:	DRAWING NUMBER:
D.E.A.	AS NOTED	9/30/94	PMI-2014-R1

TOLERANCES:		
Inch Dimension =	Decimal Dimension =	Angles =
1/16"	±.005	° 1



PO Box 338 • Spring Hill, Tennessee 37174  
931.486.2296 • 800.251.3382 • Fax: 931.486.0316  
www.pioneerleveler.com

**JOB**

Pioneer reserves the right to make product improvement at any time without prior notice.



# M Series

## Mechanical Leveler

25,000; 30,000; 35,000; 40,000; 45,000; and  
50,000 lb. Dynamic Capacities

6', 6'6", and 7' Widths  
6', 8' and 10' Lengths  
(Custom Sizes Available)

### Dependable PIONEER Levelers Keep Working for You.

Offering a wide variety of dynamic capacities, the M Series Leveler provides 18" and 20" lip options, in addition to many other custom features. Dual 60,000 lb. safety legs provide additional strength and support. Deck and lip are constructed of 55,000 lb. minimum yield steel tread plate. Lip keepers serve as night locks for security and provide safe cross-traffic support when unit is stored. Dock bumpers and grease fittings on lip hinge are standard with each unit.

### Warranty

PIONEER offers a 5-year warranty on structural members. A 1-year warranty is provided on mechanical and miscellaneous parts (including materials, and labor).

### Guarantee

PIONEER will provide our standard warranty or match any documented competitive warranty in the industry for comparable models. There is no fine print.



PIONEER's solid steel **Structural "C" Channel** offers matchless deck support - providing a 39% greater resistance to elastic bending moments than other industry designs.



Fully mechanical, single-handed **Pull-chain Operation** means **NO LIFTING** or **STRAINING**.



**Positive Hold-down Device** allows up and down float when in service.



The M Series's simple, **Direct Extension Spring Design** has no moving parts - nothing to service!

**Quality Dock Levelers**

**Long Lasting**

**Easy to Install and Operate**

**Safe**



Rugged. Dependable. PIONEER.



# M Series

## Features & Specifications

All PIONEER Levelers meet or exceed the performance requirements of CS202-56., O.S.H.A., and A.N.S.I. MH14.1 - 1984

### Durability

- Deck and lip are constructed of **55,000 lb. Minimum Yield Steel Tread Plate**.
- All PIONEER M Series Levelers are exclusively equipped with **Solid Steel Structural "C" Channel** for maximum deck support. Each beam is fully welded to a **Full-width Header Plate** at the front of the Leveler.
- **Direct Extension Spring Design** has no moving parts - nothing to service!
- **Extra Heavy Rear Angle** with **Strategically Placed Gussets** provides maximum structural support and frame strength.
- **Laminated Bumpers** included to protect dock face and Leveler from truck damage.
- **Continuous Hinge Design** with **Grease Fittings** included as standard.

### Easy Installation

- Front and rear **Forklift Slots** provide easy access for maneuvering and installation. **Side Ports** allow unit to be suspended and lowered into pit from dock floor.
- Custom engineered **Rear Angle** is two inches wider than the Leveler, providing extra area to weld at both ends.

### Simple Operation

- Conveniently located **Pull-chain** provides easy activation of deck and lip.
- Direct extension **Spring Counterbalance** provides easy walk-down.
- **Operating Range** of 12" above and 12" below dock allows Leveler to be recycled with the truck in position.
- **Automatic**, positive lip extension with yieldable lip (Hydra-Lip) standard.

### Safety

- **Maintenance Struts** are a standard feature on all M Series Levelers.
- **Positive Hold-down Device** allows up and down float when in service.
- PIONEER's **Counterbalance System** operates on simple, **Direct Extension Spring Design** with *no moving parts*. **Adjustment Nut** is located at the front of the Leveler for safe, easy access.
- **Lip Keepers** serve as night locks for security, and provide safe **Cross-traffic Support** when unit is stored. Deck tilts to a maximum of 4" from side to side to compensate for unlevel trucks.
- **Safety Legs** automatically provide below dock support in event of premature truck departure.
- **Toe Guards** protect workers from injury during loading and unloading.



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P.O. Box • Spring Hill, Tennessee 37174  
Phone: 931.486.2296 • Fax: 931.486.0316  
www.pioneerleveler.com

PIONEER offers a complete line of finely crafted, technologically advanced loading dock equipment, including **Hydraulic, Air Operated and Mechanical Pit Levelers, Edge-of-Dock and Hydraulic Top of Dock Levelers, Portable Dock boards, Vehicle Restraints, Dock Seals & Shelters, High Speed Fabric Roll-Up Doors, HVLS Fans, and other quality accessories**. Just call us toll free for personal, professional customer assistance and responses to all of your product needs.

toll free  
**1.800.251.3382**



Conveniently located pull-chain provides easy activation of deck and lip.

Direct extension spring counterbalance provides easy walk-down.



Adjustment nut is located at the front of the Leveler for safe, easy access.

### Dealer Locations

PIONEER Dock Equipment is available nationwide. For the location of your nearest PIONEER Dealer call us toll free at **1.800.251.3382**.

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:28:11 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF  
**Engineer:** HAE

**Job Number:** T21V0558A  
**Primer Color:** HD  
**Secondary Primer Color:** GZ

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
3	3.00	CXB200 [RCB-200]	HD	COLUMN - BUILT-UP	170.94	0.000	225.90	677.70	NBS/NBSTX/B	08A
9	9.00	FBL01	HD	FLANGE BRACE CLIP W/ LINER	6.00	0.188	1.92	17.26	NBS/NBSTX/B	07A
2	2.00	RD05-301 [RD05-301]	HD	ROD BRACE - 5/8"	301.00	0.000	21.19	42.38	NBS/NBSTX/B	07A
2	2.00	RD05-370 [RD05-370]	HD	ROD BRACE - 5/8"	370.00	0.000	26.05	52.10	NBS/NBSTX/B	07A
3	3.00	RXB200 [RRB-200]	HD	RAFTER - BUILT-UP	258.25	0.000	326.86	980.58	NBS/NBSTX/B	08A

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
4	4.00	80C-001 [80C-1] [J]	RP	8" - "C"	179.69	0.089	63.72	254.88	NBS/NBSTX/B	01A
4	4.00	80C-002 [80C-2] [H]	RP	8" - "C"	168.00	0.060	40.16	160.65	NBS/NBSTX/B	01A
4	4.00	80C-003 [80C-3] [J]	RP	8" - "C"	179.69	0.075	53.70	214.79	NBS/NBSTX/B	01A
4	4.00	80C-004 [80C-4] [J]	RP	8" - "C"	85.69	0.060	20.49	81.94	NBS/NBSTX/B	01A
1	1.00	80C-005 [80C-5] [G]	RP	8" - "C"	250.00	0.075	74.71	74.71	NBS/NBSTX/B	01A
2	2.00	80C-006 [80C-6] [J]	RP	8" - "C"	169.69	0.075	50.71	101.42	NBS/NBSTX/B	01A
1	1.00	80C-007 [80C-7] [H]	RP	8" - "C"	120.00	0.060	28.69	28.69	NBS/NBSTX/B	01A
1	1.00	80C-008 [80C-8] [G]	RP	8" - "C"	149.75	0.060	35.80	35.80	NBS/NBSTX/B	01A
4	4.00	80C-009 [80C-9] [J]	RP	8" - "C"	114.69	0.060	27.42	109.67	NBS/NBSTX/B	01A
2	2.00	80C-010 [80C-10] [H]	RP	8" - "C"	36.00	0.060	8.61	17.21	NBS/NBSTX/B	01A
1	1.00	80C-011 [80C-11] [G]	RP	8" - "C"	264.50	0.060	63.23	63.23	NBS/NBSTX/B	01A
1	1.00	80C-012 [80C-12] [G]	RP	8" - "C"	211.25	0.060	50.50	50.50	NBS/NBSTX/B	01A
2	2.00	80C-014 [80C-14] [H]	RP	8" - "C"	36.00	0.060	8.61	17.21	NBS/NBSTX/B	01A
1	1.00	80C-017 [80C-17] [P]	RP	8" - "C"	254.88	0.105	106.63	106.63	NBS/NBSTX/B	01A
10	10.00	80C-018 [80C-18] [J]	RP	8" - "C"	85.69	0.060	20.49	204.85	NBS/NBSTX/B	01A
1	1.00	80C-023 [80C-23] [G]	RP	8" - "C"	250.00	0.075	74.71	74.71	NBS/NBSTX/B	01A
1	1.00	80E1-001 [80E1-1] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	287.13	0.060	81.76	81.76	NBS/NBSTX/B	01C
1	1.00	80E1-002 [80E1-2] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	287.13	0.060	81.76	81.76	NBS/NBSTX/B	01C
1	1.00	80E1-003 [80E1-3] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	287.13	0.060	81.76	81.76	NBS/NBSTX/B	01C
3	3.00	80E1-004 [80E1-4] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	281.75	0.060	80.23	240.68	NBS/NBSTX/B	01C
2	2.00	80E1-005 [80E1-5] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	281.75	0.060	80.23	160.46	NBS/NBSTX/B	01C
1	1.00	80E1-006 [80E1-6] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	281.75	0.060	80.23	80.23	NBS/NBSTX/B	01C
1	1.00	80E1-007 [80E1-7] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	287.13	0.060	81.76	81.76	NBS/NBSTX/B	01C
1	1.00	80E1-008 [80E1-8] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	287.13	0.060	81.76	81.76	NBS/NBSTX/B	01C
1	1.00	80E1-009 [80E1-9] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	287.13	0.060	81.76	81.76	NBS/NBSTX/B	01C
1	1.00	80E1-010 [80E1-10] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	250.63	0.060	71.37	71.37	NBS/NBSTX/B	01C
1	1.00	80E1-011 [80E1-11] [E]	RP	EAVE STRUT 8" EQ LEG - 1:12	250.63	0.060	71.37	71.37	NBS/NBSTX/B	01C
1	1.00	80Z-001 [80Z-1] [G]	RP	8" - "Z"	99.25	0.060	23.73	23.73	NBS/NBSTX/B	01A
1	1.00	80Z-002 [80Z-2] [G]	RP	8" - "Z"	108.75	0.060	26.00	26.00	NBS/NBSTX/B	01A



# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
2	2.00	80Z-003 [80Z-3] [G]	RP	8" - "Z"	36.00	0.060	8.61	17.21	NBS/NBSTX/B	01A
4	4.00	80Z-004 [80Z-4] [G]	RP	8" - "Z"	188.00	0.089	66.67	266.67	NBS/NBSTX/B	01A
3	3.00	80Z-005 [80Z-5] [G]	RP	8" - "Z"	205.00	0.089	72.70	218.09	NBS/NBSTX/B	01A
2	2.00	80Z-006 [80Z-6] [G]	RP	8" - "Z"	188.00	0.075	56.18	112.36	NBS/NBSTX/B	01A
4	4.00	80Z-007 [80Z-7] [G]	RP	8" - "Z"	36.00	0.060	8.61	34.43	NBS/NBSTX/B	01A
2	2.00	80Z-008 [80Z-8] [G]	RP	8" - "Z"	285.50	0.099	112.62	225.24	NBS/NBSTX/B	01A
1	1.00	80Z-009 [80Z-9] [G]	RP	8" - "Z"	285.50	0.089	101.24	101.24	NBS/NBSTX/B	01A
2	2.00	80Z-011 [80Z-11] [G]	RP	8" - "Z"	212.50	0.099	83.82	167.64	NBS/NBSTX/B	01A
1	1.00	80Z-013 [80Z-13] [G]	RP	8" - "Z"	280.75	0.060	67.12	67.12	NBS/NBSTX/B	01A
1	1.00	80Z-014 [80Z-14] [G]	RP	8" - "Z"	280.75	0.089	99.56	99.56	NBS/NBSTX/B	01A
1	1.00	80Z-015 [80Z-15] [G]	RP	8" - "Z"	280.75	0.099	110.74	110.74	NBS/NBSTX/B	01A
1	1.00	80Z-016 [80Z-16] [G]	RP	8" - "Z"	280.75	0.099	110.74	110.74	NBS/NBSTX/B	01A
2	2.00	80Z-017 [80Z-17] [G]	RP	8" - "Z"	280.75	0.075	83.90	167.80	NBS/NBSTX/B	01A
2	2.00	80Z-018 [80Z-18] [G]	RP	8" - "Z"	280.75	0.099	110.74	221.49	NBS/NBSTX/B	01A
1	1.00	80Z-019 [80Z-19] [G]	RP	8" - "Z"	280.75	0.089	99.56	99.56	NBS/NBSTX/B	01A
2	2.00	80Z-020 [80Z-20] [G]	RP	8" - "Z"	280.75	0.089	99.56	199.12	NBS/NBSTX/B	01A
1	1.00	80Z-021 [80Z-21] [G]	RP	8" - "Z"	323.25	0.089	114.63	114.63	NBS/NBSTX/B	01A
1	1.00	80Z-022 [80Z-22] [G]	RP	8" - "Z"	323.25	0.075	96.60	96.60	NBS/NBSTX/B	01A
16	16.00	80Z-023 [80Z-23] [P]	RP	8" - "Z"	329.25	0.089	116.76	1868.12	NBS/NBSTX/B	01A
16	16.00	80Z-024 [80Z-24] [P]	RP	8" - "Z"	329.25	0.089	116.76	1868.12	NBS/NBSTX/B	01A
21	21.00	80Z-025 [80Z-25] [P]	RP	8" - "Z"	339.00	0.060	81.04	1701.92	NBS/NBSTX/B	01A
21	21.00	80Z-026 [80Z-26] [P]	RP	8" - "Z"	339.00	0.060	81.04	1701.92	NBS/NBSTX/B	01A
1	1.00	80Z-027 [80Z-27] [P]	RP	8" - "Z"	339.00	0.075	101.30	101.30	NBS/NBSTX/B	01A
4	4.00	80Z-028 [80Z-28] [G]	RP	8" - "Z"	354.00	0.060	84.63	338.52	NBS/NBSTX/B	01A
13	13.00	80Z-029 [80Z-29] [G]	RP	8" - "Z"	269.00	0.089	95.39	1240.10	NBS/NBSTX/B	01A
5	5.00	80Z-030 [80Z-30] [G]	RP	8" - "Z"	99.00	0.060	23.67	118.34	NBS/NBSTX/B	01A
1	1.00	80Z-031 [80Z-31] [G]	RP	8" - "Z"	269.00	0.060	64.31	64.31	NBS/NBSTX/B	01A
1	1.00	80Z-032 [80Z-32] [G]	RP	8" - "Z"	269.00	0.105	112.54	112.54	NBS/NBSTX/B	01A
1	1.00	80Z-033 [80Z-33] [P]	RP	8" - "Z"	339.00	0.075	101.30	101.30	NBS/NBSTX/B	01A

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
5	5.00	80Z-034 [80Z-34] [G]	RP	8" - "Z"	157.00	0.060	37.53	187.67	NBS/NBSTX/B	01A
6	6.00	80Z-035 [80Z-35] [P]	RP	8" - "Z"	329.25	0.075	98.39	590.35	NBS/NBSTX/B	01A
6	6.00	80Z-036 [80Z-36] [P]	RP	8" - "Z"	329.25	0.075	98.39	590.35	NBS/NBSTX/B	01A
1	1.00	80Z-037 [80Z-37] [G]	RP	8" - "Z"	323.25	0.089	114.63	114.63	NBS/NBSTX/B	01A
1	1.00	80Z-038 [80Z-38] [G]	RP	8" - "Z"	323.25	0.075	96.60	96.60	NBS/NBSTX/B	01A
1	1.00	80Z-040 [80Z-40] [G]	RP	8" - "Z"	258.50	0.060	61.80	61.80	NBS/NBSTX/B	01A
1	1.00	80Z-043 [80Z-43] [G]	RP	8" - "Z"	258.50	0.089	91.67	91.67	NBS/NBSTX/B	01A
3	3.00	80Z-044 [80Z-44] [G]	RP	8" - "Z"	258.50	0.089	91.67	275.01	NBS/NBSTX/B	01A
2	2.00	80Z-045 [80Z-45] [G]	RP	8" - "Z"	258.50	0.067	69.01	138.02	NBS/NBSTX/B	01A
3	3.00	80Z-046 [80Z-46] [G]	RP	8" - "Z"	258.50	0.060	61.80	185.40	NBS/NBSTX/B	01A
2	2.00	80Z-047 [80Z-47] [G]	RP	8" - "Z"	258.50	0.105	108.15	216.30	NBS/NBSTX/B	01A
2	2.00	80Z-048 [80Z-48] [G]	RP	8" - "Z"	36.00	0.060	8.61	17.21	NBS/NBSTX/B	01A
2	2.00	80Z-049 [80Z-49] [G]	RP	8" - "Z"	76.75	0.060	18.35	36.70	NBS/NBSTX/B	01A
1	1.00	80Z-050 [80Z-50] [G]	RP	8" - "Z"	211.25	0.067	56.39	56.39	NBS/NBSTX/B	01A
2	2.00	80Z-052 [80Z-52] [G]	RP	8" - "Z"	264.50	0.067	70.61	141.22	NBS/NBSTX/B	01A
1	1.00	80Z-053 [80Z-53] [G]	RP	8" - "Z"	149.75	0.060	35.80	35.80	NBS/NBSTX/B	01A
2	2.00	80Z-054 [80Z-54] [G]	RP	8" - "Z"	212.50	0.067	56.73	113.46	NBS/NBSTX/B	01A
2	2.00	80Z-056 [80Z-56] [G]	RP	8" - "Z"	253.50	0.099	100.00	199.99	NBS/NBSTX/B	01A
1	1.00	80Z-057 [80Z-57] [G]	RP	8" - "Z"	253.50	0.089	89.90	89.90	NBS/NBSTX/B	01A
3	3.00	80Z-058 [80Z-58] [G]	RP	8" - "Z"	36.00	0.060	8.61	25.82	NBS/NBSTX/B	01A
1	1.00	80Z-061 [80Z-61] [G]	RP	8" - "Z"	36.00	0.089	12.77	12.77	NBS/NBSTX/B	01A
2	2.00	80Z-063 [80Z-63] [G]	RP	8" - "Z"	222.00	0.060	53.07	106.15	NBS/NBSTX/B	01A
1	1.00	80Z-064 [80Z-64] [G]	RP	8" - "Z"	222.00	0.105	92.88	92.88	NBS/NBSTX/B	01A
11	11.00	80Z-065 [80Z-65] [P]	RP	8" - "Z"	286.75	0.060	68.55	754.08	NBS/NBSTX/B	01A
1	1.00	80Z-066 [80Z-66] [P]	RP	8" - "Z"	286.75	0.060	68.55	68.55	NBS/NBSTX/B	01A
10	10.00	80Z-067 [80Z-67] [P]	RP	8" - "Z"	286.75	0.060	68.55	685.52	NBS/NBSTX/B	01A
1	1.00	80Z-068 [80Z-68] [P]	RP	8" - "Z"	286.75	0.067	76.55	76.55	NBS/NBSTX/B	01A
1	1.00	80Z-069 [80Z-69] [P]	RP	8" - "Z"	286.75	0.060	68.55	68.55	NBS/NBSTX/B	01A
2	2.00	80Z-070 [80Z-70] [G]	RP	8" - "Z"	219.38	0.067	58.56	117.13	NBS/NBSTX/B	01A



# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
2	2.00	80Z-071 [80Z-71] [G]	RP	8" - "Z"	219.38	0.060	52.45	104.89	NBS/NBSTX/B	01A
1	1.00	80Z-073 [80Z-73] [G]	RP	8" - "Z"	108.75	0.060	26.00	26.00	NBS/NBSTX/B	01A
28	28.00	B8C01	RP	MISC CHANNEL - BASE - 8"	240.00	0.060	57.38	1606.54	NBS/NBSTX/B	01A
4	4.00	BCS07	RP	BRACE CLEVIS SMALL - 5/8" ROD-R	0.00	0.000	4.52	18.08	NBS/NBSTX/E	07A
2	2.00	CSR07	RP	COL RAFT CLIP-9/16-8" TALL - 3"	0.00	0.000	9.48	18.96	NBS/NBSTX/C	07A
1	1.00	CXB01 [ECB-1]	RP	COLUMN - BUILT-UP	142.63	0.000	247.85	247.85	NBS/NBSTX/B	08A
1	1.00	CXB02 [ECB-2]	RP	COLUMN - BUILT-UP	150.69	0.000	178.22	178.22	NBS/NBSTX/B	08A
1	1.00	CXB03 [ECB-3]	RP	COLUMN - BUILT-UP	172.63	0.000	199.00	199.00	NBS/NBSTX/B	08A
1	1.00	CXB04 [ECB-4]	RP	COLUMN - BUILT-UP	196.25	0.000	291.08	291.08	NBS/NBSTX/B	08A
1	1.00	CXB05 [PCB-1]	RP	COLUMN - BUILT-UP	196.13	0.000	287.62	287.62	NBS/NBSTX/B	08A
1	1.00	CXB06 [PCB-2]	RP	COLUMN - BUILT-UP	142.63	0.000	199.15	199.15	NBS/NBSTX/B	08A
3	3.00	CXB07 [RCB-1]	RP	COLUMN - BUILT-UP	260.63	0.000	577.25	1731.75	NBS/NBSTX/B	08A
3	3.00	CXB08 [RCB-2]	RP	COLUMN - BUILT-UP	260.63	0.000	578.37	1735.11	NBS/NBSTX/B	08A
1	1.00	CXB09 [RCB-3]	RP	COLUMN - BUILT-UP	260.63	0.000	576.16	576.16	NBS/NBSTX/B	08A
1	1.00	CXB10 [RCB-4]	RP	COLUMN - BUILT-UP	260.63	0.000	576.25	576.25	NBS/NBSTX/B	08A
1	1.00	CXB11 [RCB-5]	RP	COLUMN - BUILT-UP	151.63	0.000	223.29	223.29	NBS/NBSTX/B	08A
1	1.00	CXB12 [RCB-6]	RP	COLUMN - BUILT-UP	209.31	0.000	521.51	521.51	NBS/NBSTX/B	08A
1	1.00	CXB13 [RCB-7]	RP	COLUMN - BUILT-UP	152.56	0.000	408.35	408.35	NBS/NBSTX/B	08A
1	1.00	CXB14 [RCB-8]	RP	COLUMN - BUILT-UP	209.31	0.000	282.59	282.59	NBS/NBSTX/B	08A
3	3.00	CXB15 [RCB-9]	RP	COLUMN - BUILT-UP	214.06	0.000	284.40	853.20	NBS/NBSTX/B	08A
1	1.00	CXP01 [RCP-1]	RP	COLUMN - PIPE STEEL	171.06	0.000	206.02	206.02	NBS/NBSTX/B	09B
1	1.00	CXP02 [RCP-2]	RP	COLUMN - PIPE STEEL	149.69	0.000	184.62	184.62	NBS/NBSTX/B	09B
1	1.00	CXW01 [ECW-1]	RP	COLUMN - WIDE FLANGE	206.06	0.000	333.08	333.08	NBS/NBSTX/B	09B
1	1.00	CXW02 [ECW-10]	RP	COLUMN - WIDE FLANGE	263.19	0.000	551.99	551.99	NBS/NBSTX/B	09B
1	1.00	CXW03 [ECW-11]	RP	COLUMN - WIDE FLANGE	268.31	0.000	562.28	562.28	NBS/NBSTX/B	09B
1	1.00	CXW04 [ECW-2]	RP	COLUMN - WIDE FLANGE	224.81	0.000	367.69	367.69	NBS/NBSTX/B	09B
1	1.00	CXW05 [ECW-3]	RP	COLUMN - WIDE FLANGE	249.69	0.000	409.19	409.19	NBS/NBSTX/B	09B
1	1.00	CXW06 [ECW-4]	RP	COLUMN - WIDE FLANGE	266.44	0.000	423.21	423.21	NBS/NBSTX/B	09B
1	1.00	CXW07 [ECW-5]	RP	COLUMN - WIDE FLANGE	266.50	0.000	423.22	423.22	NBS/NBSTX/B	09B

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
1	1.00	CXW08 [ECW-6]	RP	COLUMN - WIDE FLANGE	249.75	0.000	402.64	402.64	NBS/NBSTX/B	09B
1	1.00	CXW09 [ECW-7]	RP	COLUMN - WIDE FLANGE	205.81	0.000	332.71	332.71	NBS/NBSTX/B	09B
1	1.00	CXW10 [ECW-8]	RP	COLUMN - WIDE FLANGE	224.56	0.000	367.32	367.32	NBS/NBSTX/B	09B
1	1.00	CXW11 [ECW-9]	RP	COLUMN - WIDE FLANGE	246.81	0.000	398.26	398.26	NBS/NBSTX/B	09B
1	1.00	CXW12 [MCW-1]	RP	COLUMN - WIDE FLANGE	257.00	0.000	425.64	425.64	NBS/NBSTX/B	09B
5	5.00	EPA03	GZ	SHORT EAVE PLATE	108.00	18	5.49	27.43	NBS/NBSTX/B	05A
27	27.00	EPB03	GZ	TALL EAVE PLATE	108.00	18	6.95	187.59	NBS/NBSTX/B	05A
62	56.00	ESW01	NP	EAVE STRUT PLATE WASHER	2.13	0.135	0.12	7.56	NBS/NBSTX/B	13C
2	2.00	FBC20	RP	FLANGE BRACE TYPE "C"	20.00	0.105	2.90	5.80	NBS/NBSTX/A	07B
1	1.00	FBC24	RP	FLANGE BRACE TYPE "C"	24.00	0.105	3.48	3.48	NBS/NBSTX/A	07B
18	18.00	FBC30	RP	FLANGE BRACE TYPE "C"	30.00	0.105	4.35	78.32	NBS/NBSTX/A	07B
25	25.00	FBC32	RP	FLANGE BRACE TYPE "C"	32.00	0.105	4.64	116.02	NBS/NBSTX/A	07B
78	78.00	FBC42	RP	FLANGE BRACE TYPE "C"	42.00	0.105	6.09	475.11	NBS/NBSTX/A	07B
5	5.00	FBC42	RP	FLANGE BRACE TYPE "C"	42.00	0.105	6.09	30.46	NBS/NBSTX/A	07B
31	31.00	FBC44	RP	FLANGE BRACE TYPE "C"	44.00	0.105	6.38	197.82	NBS/NBSTX/A	07B
13	13.00	FBC46	RP	FLANGE BRACE TYPE "C"	46.00	0.105	6.67	86.73	NBS/NBSTX/A	07B
12	12.00	FBC48	RP	FLANGE BRACE TYPE "C"	48.00	0.105	6.96	83.54	NBS/NBSTX/A	07B
4	4.00	FBK30	RP	FLANGE BRACE TYPE "K"	30.00	0.000	12.25	49.00	NBS/NBSTX/B	07A
3	3.00	FBK32	RP	FLANGE BRACE TYPE "K"	32.00	0.000	13.07	39.21	NBS/NBSTX/B	07A
4	4.00	FBK42	RP	FLANGE BRACE TYPE "K"	42.00	0.000	17.15	68.60	NBS/NBSTX/B	07A
2	2.00	FBK44	RP	FLANGE BRACE TYPE "K"	44.00	0.000	17.97	35.94	NBS/NBSTX/B	07A
2	2.00	FBK46	RP	FLANGE BRACE TYPE "K"	46.00	0.000	18.78	37.56	NBS/NBSTX/B	07A
192	192.00	FBL01	RP	FLANGE BRACE CLIP W/ LINER	6.00	0.188	1.92	368.18	NBS/NBSTX/B	07A
5	5.00	FBL01	RP	FLANGE BRACE CLIP W/ LINER	6.00	0.188	1.92	9.59	NBS/NBSTX/B	07A
192	192.00	FBN01	RP	FLANGE BRACE CLIP W/ LINER	8.75	0.130	2.09	402.22	NBS/NBSTX/A	13A
5	5.00	FBN01	RP	FLANGE BRACE CLIP W/ LINER	8.75	0.130	2.09	10.47	NBS/NBSTX/A	13A
44	44.00	FOC94	RP	8"/9 1/2" GIRTS OR HEADERS TO 8"/9 1/2" CEE JA	8.00	0.188	2.56	112.50	ABC/NBSTX/B	07A
13	13.00	GCA01	RP	WELDED FLUSH/INSET GIRT ANGLE	13.75	0.105	2.05	26.59	NBS/NBSTX/B	07A
6	6.00	GCB09	RP	ROTATED EW COL. GIRT CLIP	7.50	0.188	2.00	11.99	NBS/NBSTX/C	07A

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
1	1.00	GCC02	RP	GIRT CORNER PLATE	6.25	0.188	2.00	2.00	NBS/NBSTX/D	07A
4	4.00	GCC03	RP	GIRT CORNER CLIP	0.00	0.000	5.99	23.96	NBS/NBSTX/B	07A
2,665	2,490.00	H0200 [1/2 WASHER]	BK	FLAT WASHER 1/2 A307	0.00	0.000	0.04	102.60	NBS/NBSTX/A	13A
32	28.00	H0200	BK	FLAT WASHER 1/2 A307	0.00	0.000	0.04	1.23	NBS/NBSTX/A	13A
68	64.00	H0210	BK	FLAT WASHER 5/8 GR. 8	0.00	0.000	0.08	5.23	NBS/NBSTX/A	13A
1,045	1,024.00	H0300 [1/2 HVHX NUT]	BK	NUT 1/2 A325	0.00	0.000	0.06	62.70	NBS/NBSTX/A	13A
46	42.00	H0300	BK	NUT 1/2 A325	0.00	0.000	0.06	2.76	NBS/NBSTX/A	13A
76	72.00	H0310 [5/8 HVHX NUT]	BK	NUT 5/8 A325	0.00	0.000	0.12	8.82	NBS/NBSTX/A	13A
249	244.00	H0320 [3/4 HVHX NUT]	BK	NUT 3/4 A325	0.00	0.000	0.18	45.32	NBS/NBSTX/A	13A
8	4.00	H0330 [1 HVHX NUT]	BK	NUT 1 A325	0.00	0.000	0.41	3.25	NBS/NBSTX/A	13A
1,744	1,709.00	H0400 [1/2 A307 NUT]	BK	NUT 1/2 A307	0.00	0.000	0.03	59.30	NBS/NBSTX/A	13A
24	20.00	H0400	BK	NUT 1/2 A307	0.00	0.000	0.03	0.82	NBS/NBSTX/A	13A
1,505	1,475.00	H0500 [1/2X1 1/4 A307]	BK	BOLT 1/2 X 1 1/4 A307	0.00	0.000	0.11	165.55	NBS/NBSTX/A	13A
24	20.00	H0500	BK	BOLT 1/2 X 1 1/4 A307	0.00	0.000	0.11	2.64	NBS/NBSTX/A	13A
239	234.00	H0510	ZI	BOLT 1/2 X 1 1/4 BUTTON HEAD	0.00	0.000	0.10	23.90	NBS/NBSTX/A	13A
1,241	1,216.00	H0603 [1/2X2 A325T]	BK	BOLT 1/2 X 2 A325	0.00	0.000	0.15	179.95	NBS/NBSTX/A	13A
51	47.00	H0603	BK	BOLT 1/2 X 2 A325	0.00	0.000	0.15	7.40	NBS/NBSTX/A	13A
12	8.00	H0610 [5/8X2 1/4 A325T]	BK	BOLT 5/8 X 2 1/4 A325	0.00	0.000	0.35	4.20	NBS/NBSTX/A	13A
249	244.00	H0633 [3/4X3 A325T]	BK	BOLT 3/4 X 3 A325	0.00	0.000	0.55	137.20	NBS/NBSTX/A	13A
8	4.00	H0640 [1X3 1/4 A325T]	BK	BOLT 1 X 3 1/4 A325	0.00	0.000	0.96	7.68	NBS/NBSTX/A	13A
4	4.00	H0810	BK	COUPLING NUT 5/8	0.00	0.000	0.18	0.72	NBS/NBSTX/A	13A
64	64.00	H0930	BK	HILLSIDE WASHER 7/8	0.00	0.000	1.17	74.88	NBS/NBSTX/A	13A
50	21.00	H1000	NP	17-14 x 1" W/WASHER (GOOF SCREW)	0.00	0.000	0.02	0.89	NBS/NBSTX/D	13A
1,500	1,376.00	H1020	NP	RF 1/4-14 X 1 1/4 TCP3 WO WASHER	0.00	0.000	0.02	23.85	NBS/NBSTX/B	13A
6,250	5,844.00	H1020	NP	RF 1/4-14 X 1 1/4 TCP3 WO WASHER	0.00	0.000	0.02	99.38	NBS/NBSTX/B	13A
2,250	1,968.00	H1030	RF	RF 12-14 X 1 1/4 TCP2 W/WASHER	0.00	0.000	0.02	42.30	NBS/NBSTX/C	13A
250	139.00	H1030	NP	RF 12-14 X 1 1/4 TCP2 W/WASHER	0.00	0.000	0.02	4.70	NBS/NBSTX/C	13A
1,000	918.00	H1030	WW	RF 12-14 X 1 1/4 TCP2 W/WASHER	0.00	0.000	0.02	18.80	NBS/NBSTX/C	13A
5,750	5,420.00	H1040	WW	WF 12-14 X 1 1/4 TCP2 W/O WASHER	0.00	0.000	0.01	67.85	NBS/NBSTX/C	13A

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
250	5.00	H1040	NP	WF 12-14 X 1 1/4 TCP2 W/O WASHER	0.00	0.000	0.01	2.95	NBS/NBSTX/C	13A
1,750	1,493.00	H1050	RF	RF 1/4-14 X 7/8" TCP1 W/WASHER	0.00	0.000	0.02	31.33	NBS/NBSTX/C	13A
750	499.00	H1050	WW	RF 1/4-14 X 7/8" TCP1 W/WASHER	0.00	0.000	0.02	13.43	NBS/NBSTX/C	13A
3,000	2,678.00	H1060	WW	WF 1/4-14 X 7/8" TCP1 W/O WASHER	0.00	0.000	0.01	30.30	NBS/NBSTX/C	13A
500	320.00	H1070	WW	F 12-24 X 1 1/2 TCP5 W/O WASHER	0.00	0.000	0.02	7.55	NBS/NBSTX/C	13A
1,000	729.00	H1100	WW	POP RIVET 1/8	0.00	0.000	0.00	2.90	NBS/NBSTX/B	13C
13	10.00	H2041	NP	CFR RAKE CLIP (SHORT)	0.00	0.000	0.46	5.98	NBS/NBSTX/C	13C
73	70.00	H2051	NP	CFR RAKE CLIP (TALL)	0.00	0.000	0.56	40.88	NBS/NBSTX/C	13C
600	511.00	H2200	NP	INSULATION RETAINER WASHER	0.00	0.000	0.03	18.00	NBS/NBSTX/B	13A
109	104.00	H2520	NP	CFR SLIDING CLIP (SHORT)	0.00	0.000	0.37	40.33	NBS/NBSTX/B	13C
1,376	1,362.00	H2530	NP	CFR SLIDING CLIP (TALL)	0.00	0.000	0.41	564.16	NBS/NBSTX/B	13C
141	139.00	H2600	RF	CFR END DAM	0.00	0.000	1.12	158.29	NBS/NBSTX/C	13C
144	139.00	H2630	NP	CFR VOID CLOSURE	0.00	0.000	0.08	12.07	NBS/NBSTX/A	13C
141	139.00	H2640	RF	CFR GUTTER HANGER	0.00	0.000	0.76	107.16	NBS/NBSTX/B	13C
213	210.00	H2650	NP	CFR 12 1/2" BACK-UP PLATE	0.00	0.000	5.10	1086.30	NBS/NBSTX/A	13C
29	27.28	H3000	NP	TM 1/5" X 3/4" X 25'-0" DB	300.00	0.000	2.05	59.45	NBS/NBSTX/B	13C
20	18.65	H3001	NP	TAPE MASTIC 1/8 X 1 1/2 X 30'-0	0.00	0.000	3.80	76.00	NBS/NBSTX/A	13C
7	5.53	H3010	NP	TAPE MASTIC 3/32 X 1/2 X 50'-0	0.00	0.000	1.69	11.83	NBS/NBSTX/A	13C
20	18.08	H3020	NP	TAPE MASTIC 2 1/4" X 20'-0	0.00	0.000	4.58	91.60	NBS/NBSTX/A	13C
23	19.95	H3151	NP	NON-SKINNING BUTYL TUBE CAULK	0.00	0.000	0.81	18.63	NBS/NBSTX/B	13C
14	11.87	H3152	NP	POLYURETHANE TUBE CAULK SEALANT	0.00	0.000	0.81	11.34	NBS/NBSTX/A	13C
1,411	1,397.00	H3300	NP	THERMAL BLOCK 13/16"	0.00	0.000	0.05	70.55	NBS/NBSTX/B	13C
5	4.14	H3310	NP	EPS FOAM SPACER X 50'-0	0.00	0.000	0.62	3.10	NBS/NBSTX/B	13C
210	198.00	H3400	NP	CLASSIC OUTSIDE CLOSURE	0.00	0.000	0.04	8.19	NBS/NBSTX/A	13C
230	219.00	H3410	NP	CLASSIC INSIDE CLOSURE	0.00	0.000	0.01	2.53	NBS/NBSTX/B	13C
345	324.00	H3640	NP	TAPE MASTIC PRE-CUT 8"	0.00	0.000	0.09	29.98	NBS/NBSTX/A	13C
232	218.73	H3650	NP	TAPE MASTIC PRE-CUT 27"	0.00	0.000	0.39	90.48	NBS/NBSTX/B	13C
1	1.00	H8000	NP	STANDUP CFR HAND CRIMPER VL SEAM	0.00	0.000	18.00	18.00	NBS/NBSTX/A	13C
1	1.00	H8260	NP	OEM CFR ROOF SHT MANUAL	0.00	0.000	0.00	0.00	NBS/NBSTX/A	13A

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
1	1.00	H8400	NP	OEM CFR SEAMING MANUAL	0.00	0.000	0.00	0.00	NBS/NBSTX/A	13A
1	1.00	H9010	RP	PRIMER 1 QT. CAN	0.00	0.000	3.18	3.18	NBS/NBSTX/A	13A
1	1.00	H9400	NP	ERECTION DRAWINGS (1 SET)	0.00	0.000	0.00	0.00	NBS/NBSTX/A	13A
1	1.00	H9451	NP	METAL BLDG MSDS MAN.	0.00	0.000	0.00	0.00	NBS/NBSTX/A	13A
46	46.00	H9451	RP	8" HEADER CLIP - JAMB	4.13	0.188	1.32	60.64	NBS/NBSTX/D	07A
6	6.00	HW801 [HW8-1]	GZ	8" HEADER WRAP	40.00	0.060	16.32	97.92	NBS/NBSTX/A	05A
1	1.00	HW802 [HW8-2]	GZ	8" HEADER WRAP	76.00	0.060	31.01	31.01	NBS/NBSTX/A	05A
24	24.00	JCT01	RP	JAMB CLIP TOP - GIRT	0.00	0.000	3.86	92.64	NBS/NBSTX/C	07A
4	4.00	JCT02	RP	JAMB CLIP TOP/BOTTOM EXTENDED	7.88	0.164	2.20	8.78	NBS/NBSTX/C	07A
179	179.00	MAG01	GZ	MISC ANGLE GIRT - 1'-0	12.00	18	0.57	101.82	NBS/NBSTX/C	05A
6	6.00	MAG02	GZ	MISC ANGLE GIRT - 2'-0	24.00	18	1.14	6.83	NBS/NBSTX/C	05A
10	10.00	MAG02	GZ	MISC ANGLE GIRT - 2'-0	24.00	18	1.14	11.38	NBS/NBSTX/C	05A
35	35.00	MAL01	GZ	LINER LOW EAVE ANGLE 1/4-1:12	120.00	18	22.35	782.12	NBS/NBSTX/B	05A
11	11.00	MAP01	GZ	MISC ANGLE - RAKE PARAPET	120.00	0.060	28.56	314.16	NBS/NBSTX/B	05A
29	29.00	MAR01	GZ	MISC ANGLE - RAKE	242.00	0.060	32.91	954.44	NBS/NBSTX/A	05A
35	34.50	MAR02	GZ	C.F.R. RAKE ANGLE	242.00	0.060	20.57	719.94	NBS/NBSTX/A	05A
3	3.00	MTB01	GZ	CFR MODULARITY TOOL X 2'-3	27.00	0.060	1.38	4.13	NBS/NBSTX/A	13C
20	20.00	NS4-26950 [NS4-7]	RF	CFR PANEL	269.50	24	55.32	1106.43	NBS/NBSTX/B	04A
1	1.00	NS4-27062 [NS4-4]	RF	CFR PANEL	270.62	24	55.55	55.55	NBS/NBSTX/B	04A
48	48.00	NS4-27287 [NS4-2]	RF	CFR PANEL	272.87	24	56.01	2688.64	NBS/NBSTX/B	04A
22	22.00	NS4-27412 [NS4-5]	RF	CFR PANEL	274.12	24	56.27	1237.94	NBS/NBSTX/B	04A
48	48.00	NS4-32700 [NS4-3]	RF	CFR PANEL	327.00	24	67.12	3222.00	NBS/NBSTX/B	04A
22	22.00	NS4-39150 [NS4-6]	RF	CFR PANEL	391.50	24	80.37	1768.03	NBS/NBSTX/B	04A
51	51.00	NS4-58400 [NS4-1]	RF	CFR PANEL	584.00	24	119.88	6113.91	NBS/NBSTX/B	04A
24	24.00	PB839	GZ	PURLIN BRACE (8") 3'-3" SPACE	41.63	0.060	1.42	33.96	NBS/NBSTX/A	05B
4	4.00	PB851	GZ	PURLIN BRACE (8") 4'-3" SPACE	53.56	0.060	1.82	7.28	NBS/NBSTX/A	05B
200	200.00	PB854	GZ	PURLIN BRACE (8") 4'-6" SPACE	56.56	0.060	1.92	384.62	NBS/NBSTX/A	05B
8	8.00	PBX-001 [PBX-1]	GZ	PURLIN BRACE SPECIAL LENGTH	42.13	0.060	1.43	11.46	NBS/NBSTX/A	05B
16	16.00	PBX-005 [PBX-5]	GZ	PURLIN BRACE SPECIAL LENGTH	44.25	0.060	1.50	24.07	NBS/NBSTX/A	05B

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
16	16.00	PBX-006 [PBX-6]	GZ	PURLIN BRACE SPECIAL LENGTH	43.88	0.060	1.49	23.87	NBS/NBSTX/A	05B
8	8.00	PBX-009 [PBX-9]	GZ	PURLIN BRACE SPECIAL LENGTH	55.56	0.060	1.89	15.11	NBS/NBSTX/A	05B
4	4.00	PBX-011 [PBX-11]	GZ	PURLIN BRACE SPECIAL LENGTH	52.94	0.060	1.80	7.20	NBS/NBSTX/A	05B
16	16.00	PBX-013 [PBX-13]	GZ	PURLIN BRACE SPECIAL LENGTH	33.94	0.060	1.15	18.46	NBS/NBSTX/A	05B
2	2.00	PFC03	RP	TEXAS PORTAL FRAME STUB	0.00	0.000	15.24	30.48	NBS/NBSTX/B	07A
2	2.00	PWA30	RP	EXP EW PLATE WASHER (3")	3.00	0.375	1.59	3.19	NBS/NBSTX/B	07A
2	2.00	RD05-001 [RD05-1]	RP	ROD BRACE - 5/8"	344.00	0.000	24.22	48.44	NBS/NBSTX/B	07A
4	4.00	RD05-002 [RD05-2]	RP	ROD BRACE - 5/8"	306.00	0.000	21.54	86.17	NBS/NBSTX/B	07A
2	2.00	RD05-003 [RD05-3]	RP	ROD BRACE - 5/8"	353.00	0.000	24.85	49.70	NBS/NBSTX/B	07A
4	4.00	RD05-004 [RD05-4]	RP	ROD BRACE - 5/8"	380.00	0.000	26.75	107.01	NBS/NBSTX/B	07A
2	2.00	RD05-005 [RD05-5]	RP	ROD BRACE - 5/8"	396.00	0.000	27.88	55.76	NBS/NBSTX/B	07A
4	4.00	RD05-008 [RD05-8]	RP	ROD BRACE - 5/8"	355.00	0.000	24.99	99.97	NBS/NBSTX/B	07A
6	6.00	RD05-009 [RD05-9]	RP	ROD BRACE - 5/8"	356.00	0.000	25.06	150.37	NBS/NBSTX/B	07A
1	1.00	RD05-011 [RD05-11]	RP	ROD BRACE - 5/8"	204.00	0.000	14.36	14.36	NBS/NBSTX/B	07A
1	1.00	RD05-012 [RD05-12]	RP	ROD BRACE - 5/8"	210.00	0.000	14.78	14.78	NBS/NBSTX/B	07A
1	1.00	RD05-013 [RD05-13]	RP	ROD BRACE - 5/8"	236.00	0.000	16.61	16.61	NBS/NBSTX/B	07A
1	1.00	RD05-014 [RD05-14]	RP	ROD BRACE - 5/8"	242.00	0.000	17.04	17.04	NBS/NBSTX/B	07A
1	1.00	RD05-015 [RD05-15]	RP	ROD BRACE - 5/8"	358.00	0.000	25.20	25.20	NBS/NBSTX/B	07A
2	2.00	RD05-016 [RD05-16]	RP	ROD BRACE - 5/8"	397.00	0.000	27.95	55.90	NBS/NBSTX/B	07A
1	1.00	RD05-017 [RD05-17]	RP	ROD BRACE - 5/8"	367.00	0.000	25.84	25.84	NBS/NBSTX/B	07A
2	2.00	RD05-018 [RD05-18]	RP	ROD BRACE - 5/8"	279.00	0.000	19.64	39.28	NBS/NBSTX/B	07A
1	1.00	RXB01 [PRB-1]	RP	RAFTER - BUILT-UP	220.75	0.000	347.07	347.07	NBS/NBSTX/B	08A
1	1.00	RXB02 [PRB-2]	RP	RAFTER - BUILT-UP	220.75	0.000	284.29	284.29	NBS/NBSTX/B	08A
3	3.00	RXB03 [RRB-1]	RP	RAFTER - BUILT-UP	304.63	0.000	575.30	1725.90	NBS/NBSTX/B	08A
3	3.00	RXB04 [RRB-10]	RP	RAFTER - BUILT-UP	506.63	0.000	831.56	2494.68	NBS/NBSTX/B	08A
3	3.00	RXB05 [RRB-2]	RP	RAFTER - BUILT-UP	304.63	0.000	576.43	1729.29	NBS/NBSTX/B	08A
1	1.00	RXB06 [RRB-3]	RP	RAFTER - BUILT-UP	304.63	0.000	575.34	575.34	NBS/NBSTX/B	08A
1	1.00	RXB07 [RRB-4]	RP	RAFTER - BUILT-UP	304.63	0.000	575.34	575.34	NBS/NBSTX/B	08A
1	1.00	RXB08 [RRB-5]	RP	RAFTER - BUILT-UP	266.19	0.000	363.86	363.86	NBS/NBSTX/B	08A

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:27:29 AM -6

**Detailer:** DBO/BTW  
**Checker:** TJF/RR  
**Engineer:** HAE

**Job Number:** T21V0558B  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
1	1.00	RXB09 [RRB-6]	RP	RAFTER - BUILT-UP	221.38	0.000	308.67	308.67	NBS/NBSTX/B	08A
1	1.00	RXB10 [RRB-7]	RP	RAFTER - BUILT-UP	142.06	0.000	196.57	196.57	NBS/NBSTX/B	08A
1	1.00	RXB11 [RRB-8]	RP	RAFTER - BUILT-UP	122.25	0.000	256.31	256.31	NBS/NBSTX/B	08A
1	1.00	RXB12 [RRB-9]	RP	RAFTER - BUILT-UP	486.13	0.000	751.79	751.79	NBS/NBSTX/B	08A
1	1.00	RXW01 [ERW-1]	RP	RAFTER - WIDE FLANGE	312.69	0.000	295.47	295.47	NBS/NBSTX/B	09B
1	1.00	RXW02 [ERW-2]	RP	RAFTER - WIDE FLANGE	270.00	0.000	258.33	258.33	NBS/NBSTX/B	09B
1	1.00	RXW03 [ERW-3]	RP	RAFTER - WIDE FLANGE	270.06	0.000	257.26	257.26	NBS/NBSTX/B	09B
1	1.00	RXW04 [ERW-4]	RP	RAFTER - WIDE FLANGE	326.94	0.000	307.42	307.42	NBS/NBSTX/B	09B
1	1.00	RXW05 [ERW-5]	RP	RAFTER - WIDE FLANGE	522.81	0.000	811.23	811.23	NBS/NBSTX/B	09B
1	1.00	RXW06 [ERW-6]	RP	RAFTER - WIDE FLANGE	418.38	0.000	660.96	660.96	NBS/NBSTX/B	09B
1	1.00	RXW07 [ERW-7]	RP	RAFTER - WIDE FLANGE	234.94	0.000	376.34	376.34	NBS/NBSTX/B	09B
2	2.00	WBP01	RP	AUX. WIND BRACING PLATE	18.50	0.313	9.84	19.69	NBS/NBSTX/B	07A

# Summarized Parts List Report

Project Name: EMS - Phase II  
 Printed: 1/18/2022 11:26:08 AM -6

Detailer: DBO/BTW  
 Checker: TJF  
 Engineer: HAE

Job Number: T21V0558C  
 Primer Color: HD  
 Secondary Primer Color: GZ

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
1	1.00	80C-013 [80C-13] [G]	GZ	8" - "C"	302.50	0.067	80.75	80.75	NBS/NBSTX/B	01A
1	1.00	80C-024 [80C-24] [G]	GZ	8" - "C"	180.50	0.067	48.19	48.19	NBS/NBSTX/B	01A
1	1.00	80E1-200 [80E1-200] [E]	GZ	EAVE STRUT 8" EQ LEG - 1:12	181.13	0.060	51.58	51.58	NBS/NBSTX/B	01C
1	1.00	80E1-201 [80E1-201] [E]	GZ	EAVE STRUT 8" EQ LEG - 1:12	303.13	0.060	86.31	86.31	NBS/NBSTX/B	01C
5	5.00	80Z-200 [80Z-200] [P]	GZ	8" - "Z"	217.25	0.060	51.94	259.69	NBS/NBSTX/B	01A
5	5.00	80Z-201 [80Z-201] [P]	GZ	8" - "Z"	339.25	0.075	101.38	506.90	NBS/NBSTX/B	01A
12	8.00	ESW01	NP	EAVE STRUT PLATE WASHER	2.13	0.135	0.12	1.46	NBS/NBSTX/B	13C
9	9.00	FBC42	GZ	FLANGE BRACE TYPE "C"	42.00	0.105	6.09	54.82	NBS/NBSTX/A	07B
9	9.00	FBN01	GZ	FLANGE BRACE CLIP W/ LINER	8.75	0.130	2.09	18.85	NBS/NBSTX/A	13A
95	88.00	H0200 [1/2 WASHER]	GZ	FLAT WASHER 1/2 A307	0.00	0.000	0.04	3.66	NBS/NBSTX/A	13A
12	8.00	H0210	GZ	FLAT WASHER 5/8 GR. 8	0.00	0.000	0.08	0.92	NBS/NBSTX/A	13A
60	56.00	H0300 [1/2 HVHX NUT]	GZ	NUT 1/2 A325	0.00	0.000	0.06	3.60	NBS/NBSTX/A	13A
12	8.00	H0310 [5/8 HVHX NUT]	GZ	NUT 5/8 A325	0.00	0.000	0.12	1.39	NBS/NBSTX/A	13A
28	24.00	H0320 [3/4 HVHX NUT]	GZ	NUT 3/4 A325	0.00	0.000	0.18	5.10	NBS/NBSTX/A	13A
84	80.00	H0400 [1/2 A307 NUT]	GZ	NUT 1/2 A307	0.00	0.000	0.03	2.86	NBS/NBSTX/A	13A
84	80.00	H0500 [1/2X1 1/4 A307]	GZ	BOLT 1/2 X 1 1/4 A307	0.00	0.000	0.11	9.24	NBS/NBSTX/A	13A
69	65.00	H0603 [1/2X2 A325T]	GZ	BOLT 1/2 X 2 A325	0.00	0.000	0.15	10.01	NBS/NBSTX/A	13A
28	24.00	H0633 [3/4X3 A325T]	GZ	BOLT 3/4 X 3 A325	0.00	0.000	0.55	15.43	NBS/NBSTX/A	13A
8	8.00	H0930	GZ	HILLSIDE WASHER 7/8	0.00	0.000	1.17	9.36	NBS/NBSTX/A	13A
250	80.00	H1020	NP	RF 1/4-14 X 1 1/4 TCP3 WO WASHER	0.00	0.000	0.02	3.98	NBS/NBSTX/B	13A
24	24.00	PB854	GZ	PURLIN BRACE (8") 4'-6" SPACE	56.56	0.060	1.92	46.15	NBS/NBSTX/A	05B
4	4.00	PBX-201 [PBX-201]	GZ	PURLIN BRACE SPECIAL LENGTH	40.63	0.060	1.38	5.52	NBS/NBSTX/A	05B
4	4.00	PBX-202 [PBX-202]	GZ	PURLIN BRACE SPECIAL LENGTH	40.19	0.060	1.37	5.47	NBS/NBSTX/A	05B



# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:25:15 AM -6

**Detailer:** DBO  
**Checker:** RR  
**Engineer:** HAE

**Job Number:** T21V0558D  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
36	36.00	BSB01	WW	BASE TRIM X 10'-2	122.00	26	5.91	212.79	NBS/NBSTX/C	05A
1	1.00	CCA121	WW	8" CEE CHANNEL COVER X 10'-1	121.00	26	9.85	9.85	NBS/NBSTX/B	05A
2	2.00	CCA145	WW	8" CEE CHANNEL COVER X 12'-1	145.00	26	11.81	23.61	NBS/NBSTX/B	05A
12	12.00	CCA169	WW	8" CEE CHANNEL COVER X 14'-1	169.00	26	13.76	165.12	NBS/NBSTX/B	05A
1	1.00	CW4-05387 [L3P24-42]	WW	CLASSIC PANEL	53.87	24	15.66	15.66	NBS/NBSTX/B	04C
13	13.00	CW4-05462 [L3P24-39]	WW	CLASSIC PANEL	54.62	24	15.88	206.41	NBS/NBSTX/B	04C
2	2.00	CW4-05787 [L3P24-2]	WW	CLASSIC PANEL	57.87	24	16.82	33.65	NBS/NBSTX/B	04C
1	1.00	CW4-05987 [L3P24-3]	WW	CLASSIC PANEL	59.87	24	17.40	17.40	NBS/NBSTX/B	04C
2	2.00	CW4-06087 [L3P24-3]	WW	CLASSIC PANEL	60.87	24	17.69	35.39	NBS/NBSTX/B	04C
2	2.00	CW4-06387 [L3P24-4]	WW	CLASSIC PANEL	63.87	24	18.57	37.13	NBS/NBSTX/B	04C
1	1.00	CW4-06587 [L3P24-5]	WW	CLASSIC PANEL	65.87	24	19.15	19.15	NBS/NBSTX/B	04C
2	2.00	CW4-06687 [L3P24-5]	WW	CLASSIC PANEL	66.87	24	19.44	38.88	NBS/NBSTX/B	04C
1	1.00	CW4-07187 [L3P24-43]	WW	CLASSIC PANEL	71.87	24	20.89	20.89	NBS/NBSTX/B	04C
2	2.00	CW4-07587 [L3P24-8]	WW	CLASSIC PANEL	75.87	24	22.06	44.11	NBS/NBSTX/B	04C
1	1.00	CW4-07787 [L3P24-9]	WW	CLASSIC PANEL	77.87	24	22.64	22.64	NBS/NBSTX/B	04C
2	2.00	CW4-07887 [L3P24-9]	WW	CLASSIC PANEL	78.87	24	22.93	45.86	NBS/NBSTX/B	04C
2	2.00	CW4-08187 [L3P24-10]	WW	CLASSIC PANEL	81.87	24	23.80	47.60	NBS/NBSTX/B	04C
1	1.00	CW4-08387 [L3P24-44]	WW	CLASSIC PANEL	83.87	24	24.38	24.38	NBS/NBSTX/B	04C
1	1.00	CW4-08987 [L3P24-45]	WW	CLASSIC PANEL	89.87	24	26.13	26.13	NBS/NBSTX/B	04C
1	1.00	CW4-09587 [L3P24-46]	WW	CLASSIC PANEL	95.87	24	27.87	27.87	NBS/NBSTX/B	04C
10	10.00	CW4-10250 [L3P24-47]	WW	CLASSIC PANEL	102.50	24	29.80	297.97	NBS/NBSTX/B	04C
14	14.00	CW4-15500 [L3P24-48]	WW	CLASSIC PANEL	155.00	24	45.06	630.82	NBS/NBSTX/B	04C
1	1.00	CW4-15650 [L3P24-52]	WW	CLASSIC PANEL	156.50	24	45.49	45.49	NBS/NBSTX/B	04C
1	1.00	CW4-15950 [L3P24-51]	WW	CLASSIC PANEL	159.50	24	46.37	46.37	NBS/NBSTX/B	04C
1	1.00	CW4-16250 [L3P24-50]	WW	CLASSIC PANEL	162.50	24	47.24	47.24	NBS/NBSTX/B	04C
1	1.00	CW4-16450 [L3P24-49]	WW	CLASSIC PANEL	164.50	24	47.82	47.82	NBS/NBSTX/B	04C
13	13.00	CW4-20537 [L3P24-38]	WW	CLASSIC PANEL	205.37	24	59.70	776.11	NBS/NBSTX/B	04C
32	32.00	CW4-21937 [L3P24-36]	WW	CLASSIC PANEL	219.37	24	63.77	2040.67	NBS/NBSTX/B	04C
2	2.00	CW4-22087 [L3P24-35]	WW	CLASSIC PANEL	220.87	24	64.21	128.41	NBS/NBSTX/B	04C

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:25:15 AM -6

**Detailer:** DBO  
**Checker:** RR  
**Engineer:** HAE

**Job Number:** T21V0558D  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
2	2.00	CW4-22387 [L3P24-1]	WW	CLASSIC PANEL	223.87	24	65.08	130.16	NBS/NBSTX/B	04C
2	2.00	CW4-23887 [L3P24-6]	WW	CLASSIC PANEL	238.87	24	69.44	138.88	NBS/NBSTX/B	04C
2	2.00	CW4-24187 [L3P24-7]	WW	CLASSIC PANEL	241.87	24	70.31	140.62	NBS/NBSTX/B	04C
2	2.00	CW4-25387 [L3P24-11]	WW	CLASSIC PANEL	253.87	24	73.80	147.60	NBS/NBSTX/B	04C
2	2.00	CW4-25687 [L3P24-13]	WW	CLASSIC PANEL	256.87	24	74.67	149.34	NBS/NBSTX/B	04C
2	2.00	CW4-25987 [L3P24-14]	WW	CLASSIC PANEL	259.87	24	75.54	151.09	NBS/NBSTX/B	04C
32	32.00	CW4-26200 [L3P24-34]	WW	CLASSIC PANEL	262.00	24	76.16	2437.23	NBS/NBSTX/B	04C
2	2.00	CW4-26287 [L3P24-41]	WW	CLASSIC PANEL	262.87	24	76.42	152.83	NBS/NBSTX/B	04C
19	19.00	CW4-26300 [L3P24-37]	WW	CLASSIC PANEL	263.00	24	76.45	1452.63	NBS/NBSTX/B	04C
1	1.00	CW4-26450 [L3P24-33]	WW	CLASSIC PANEL	264.50	24	76.89	76.89	NBS/NBSTX/B	04C
1	1.00	CW4-26587 [L3P24-16]	WW	CLASSIC PANEL	265.87	24	77.29	77.29	NBS/NBSTX/B	04C
1	1.00	CW4-26750 [L3P24-32]	WW	CLASSIC PANEL	267.50	24	77.76	77.76	NBS/NBSTX/B	04C
1	1.00	CW4-26887 [L3P24-17]	WW	CLASSIC PANEL	268.87	24	78.16	78.16	NBS/NBSTX/B	04C
1	1.00	CW4-27050 [L3P24-31]	WW	CLASSIC PANEL	270.50	24	78.63	78.63	NBS/NBSTX/B	04C
1	1.00	CW4-27187 [L3P24-18]	WW	CLASSIC PANEL	271.87	24	79.03	79.03	NBS/NBSTX/B	04C
1	1.00	CW4-27350 [L3P24-30]	WW	CLASSIC PANEL	273.50	24	79.51	79.51	NBS/NBSTX/B	04C
1	1.00	CW4-27487 [L3P24-19]	WW	CLASSIC PANEL	274.87	24	79.90	79.90	NBS/NBSTX/B	04C
1	1.00	CW4-27650 [L3P24-29]	WW	CLASSIC PANEL	276.50	24	80.38	80.38	NBS/NBSTX/B	04C
1	1.00	CW4-27787 [L3P24-20]	WW	CLASSIC PANEL	277.87	24	80.78	80.78	NBS/NBSTX/B	04C
1	1.00	CW4-27950 [L3P24-28]	WW	CLASSIC PANEL	279.50	24	81.25	81.25	NBS/NBSTX/B	04C
1	1.00	CW4-28087 [L3P24-21]	WW	CLASSIC PANEL	280.87	24	81.65	81.65	NBS/NBSTX/B	04C
1	1.00	CW4-28250 [L3P24-27]	WW	CLASSIC PANEL	282.50	24	82.12	82.12	NBS/NBSTX/B	04C
1	1.00	CW4-28387 [L3P24-22]	WW	CLASSIC PANEL	283.87	24	82.52	82.52	NBS/NBSTX/B	04C
1	1.00	CW4-28550 [L3P24-26]	WW	CLASSIC PANEL	285.50	24	82.99	82.99	NBS/NBSTX/B	04C
1	1.00	CW4-28687 [L3P24-23]	WW	CLASSIC PANEL	286.87	24	83.39	83.39	NBS/NBSTX/B	04C
1	1.00	CW4-28850 [L3P24-25]	WW	CLASSIC PANEL	288.50	24	83.87	83.87	NBS/NBSTX/B	04C
4	4.00	CW4-28887 [L3P24-24]	WW	CLASSIC PANEL	288.87	24	83.97	335.90	NBS/NBSTX/B	04C
6	6.00	DBA01	WW	DOWNSPOUT STRAP BRACKET	6.50	26	0.04	0.21	NBS/NBSTX/B	05C
45	45.00	DPA01	WW	DOWNSPOUT STRAP	10.25	26	0.08	3.73	NBS/NBSTX/B	05C

# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:25:15 AM -6

**Detailer:** DBO  
**Checker:** RR  
**Engineer:** HAE

**Job Number:** T21V0558D  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
1	1.00	ERA01	WW	EAVE/RAKE CAP - SIMPLE EAVE	10.06	26	0.46	0.46	NBS/NBSTX/C	05C
14	14.00	FSA04	WW	FLAT STOCK	121.00	26	16.73	234.26	NBS/NBSTX/C	05A
7	7.00	GRA01	WW	GUTTER/RAKE TRIM	8.00	26	0.34	2.41	NBS/NBSTX/B	05C
2	2.00	GTA01	WW	GUTTER X 10'-1	121.00	26	16.73	33.46	NBS/NBSTX/B	05B
14	14.00	GTA02	WW	GUTTER X 20'-2	242.00	26	33.46	468.50	NBS/NBSTX/B	05B
23	22.50	H2305	WW	DOWNSPOUT 4 X 5 X 10'-0	120.00	0.000	11.34	260.82	NBS/NBSTX/B	05C
13	13.00	H2320	WW	DOWNSPOUT "S" 4 X 5 (3-1/2" OFFSET)	0.00	0.000	1.80	23.40	NBS/NBSTX/B	05C
13	13.00	H2330	WW	DOWNSPOUT ELBOW 4 X 5	0.00	0.000	1.80	23.40	NBS/NBSTX/B	05C
14	14.00	H4000	WW	CORNER/END CAP	0.00	26	0.50	7.00	NBS/NBSTX/B	05C
4	4.00	H4200	WW	OUTSIDE CORNER - BSB_ _	0.00	26	0.33	1.32	NBS/NBSTX/B	05C
11	11.00	H4220	PW	PLASTIC DOOR END CLOSURE (PAIR)	0.00	0.000	0.04	0.44	NBS/NBSTX/C	05C
1	1.00	HEB01	WW	HIGH EAVE CFR X 10'-1	121.00	26	16.73	16.73	NBS/NBSTX/B	05B
5	5.00	HPE01	RF	HE PAR CFR 1/4-1:12 X 10'-1	121.00	26	13.03	65.14	NBS/NBSTX/C	05A
8	8.00	HTA044	WW	HEAD TRIM X 3'-8	44.00	26	2.13	17.05	NBS/NBSTX/B	05A
1	1.00	HTA080	WW	HEAD TRIM X 6'-8	80.00	26	3.88	3.88	NBS/NBSTX/B	05A
1	1.00	HTA124	WW	HEAD TRIM X 10'-4	124.00	26	6.01	6.01	NBS/NBSTX/B	05A
4	4.00	HTA172	WW	HEAD TRIM X 14'-4	172.00	26	8.33	33.33	NBS/NBSTX/B	05A
14	14.00	HTD096	WW	LINER PANEL J TRIM X 8'-0	96.00	26	2.58	36.18	NBS/NBSTX/B	05B
14	14.00	JTA087	WW	JAMB TRIM X 7'-3	87.00	26	2.34	32.78	NBS/NBSTX/C	05B
4	4.00	JTA097	WW	JAMB TRIM X 8'-1	97.00	26	2.61	10.44	NBS/NBSTX/C	05B
9	9.00	JTA121	WW	JAMB TRIM X 10'-1	121.00	26	3.26	29.31	NBS/NBSTX/C	05B
2	2.00	JTA145	WW	JAMB TRIM X 12'-1	145.00	26	3.90	7.81	NBS/NBSTX/C	05B
8	8.00	JTA169	WW	JAMB TRIM X 14'-1	169.00	26	4.55	36.39	NBS/NBSTX/C	05B
35	35.00	LEA01	WW	LOW EAVE TRIM X 10'-2	122.00	26	5.91	206.88	NBS/NBSTX/C	05A
6	6.00	LEE09	WW	RAKE AT OPEN WALL W/8" PURLINS	121.00	26	9.85	59.11	NBS/NBSTX/B	05A
2	2.00	M0601	PW	METAL PEAK -Canam- (1:12)	0.00	0.000	3.15	6.30	NBS/NBSTX/A	05C
5	5.00	MFB01	WW	MISC FILLER TRIM CLASSIC X 10'-1	121.00	26	7.98	39.90	NBS/NBSTX/B	05A
2	2.00	MPP01	PW	PEAK PLATE 1:12	0.00	0.000	0.40	0.80	NBS/NBSTX/A	05C
5	5.00	OCA01	WW	OUTSIDE CORNER TRIM X 20'-2	242.00	26	21.98	109.92	NBS/NBSTX/B	05B


# Summarized Parts List Report

**Project Name:** EMS - Phase II  
**Printed:** 1/18/2022 11:25:15 AM -6

**Detailer:** DBO  
**Checker:** RR  
**Engineer:** HAE


**Job Number:** T21V0558D  
**Primer Color:** RP  
**Secondary Primer Color:** RP

Total Qty.	Quantity	Name [OEM] [MT]	Color	Description	Length	Gauge	Lbs./Part	Total Lbs.	Brand/Div/Vin	LRC
5	5.00	PFD01	WW	PARTITION TERM. FLASH (8"/10")	121.00	26	11.85	59.23	NBS/NBSTX/B	05A
5	4.50	PFE01	WW	PARTITION TERM. FLASH (12")	121.00	26	12.50	62.49	NBS/NBSTX/B	05A
5	5.00	RCA01	WW	RAKE CAP - LEFT	9.25	26	0.31	1.56	NBS/NBSTX/B	05C
5	5.00	RCA02	WW	RAKE CAP - RIGHT	9.25	26	0.31	1.56	NBS/NBSTX/B	05C
1	1.00	RCB01	RF	RAKE PARAPET CAP - LEFT	10.81	26	0.55	0.55	NBS/NBSTX/C	05C
1	1.00	RCB02	WW	RAKE PARAPET CAP - RIGHT	10.81	26	0.55	0.55	NBS/NBSTX/C	05C
2	2.00	RGB01	RF	RIDGE CAP X 10'-1 - (<=2:12)	121.00	24	24.84	49.68	NBS/NBSTX/B	05A
4	4.00	RGB02	RF	RIDGE CAP X 20'-2" - (<=2:12)	242.00	24	49.68	198.70	NBS/NBSTX/B	05A
6	6.00	RPA01	RF	RAKE PARAPET TRIM X 10'-1	121.00	26	9.12	54.72	NBS/NBSTX/D	05A
30	30.00	RRA01	WW	RAKE RETAINER CFR X 10'-1	121.00	26	3.26	97.71	NBS/NBSTX/C	05A
4	4.00	RTA01	WW	RAKE TRIM X 10'-1	121.00	26	16.73	66.93	NBS/NBSTX/B	05B
13	13.00	RTA02	WW	RAKE TRIM X 20'-2	242.00	26	33.46	435.04	NBS/NBSTX/B	05B
2	2.00	STA040	WW	SILL TRIM X 3'-4	40.00	26	1.94	3.88	NBS/NBSTX/C	05A

<p align="center"><b>Shop Work Order</b></p>  <p align="center"><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 1 of 11
	BY:	HPR	DATE:	09/15/2021
	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		


**Primary Framing (3-Plate) for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
2	RF1-1	BU COLUMN (Built-Up)	10'-8 13/16"	0	0	HDG	852.00
9	RF2-1	BU COLUMN (Built-Up)	10'-8 13/16"	0	0	HDG	3835.00
2	WF-1	BU COLUMN (Built-Up)	12'-4 7/8"	8	0	HDG	421.00
1	WF-3	BU COLUMN (Built-Up)	12'-4 7/8"	8	0	HDG	210.00
1	WF-4	BU COLUMN (Built-Up)	12'-4 7/8"	8	0	HDG	210.00
1	RF1-2	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	701.00
1	RF1-3	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	701.00
1	RF2-2	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	701.00
1	RF2-3	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	697.00
2	RF2-4	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	1395.00
1	RF2-5	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	697.00
1	RF2-6	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	697.00
1	RF2-7	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	697.00
1	RF2-8	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	697.00
1	RF2-9	BU RAFTER (Built-Up)	28'-2 3/16"	0	0	HDG	701.00
2	WF-2	BU RAFTER (Built-Up)	20'-11 1/2"	8	0	HDG	655.00
4	BKT-1	BRACKET (Built-Up)	0'-10"	9	0	HDG	79.00
<b>32</b>	Sub Total Weight For Primary Framing (3-Plate):						<b>13946</b>

 <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 2 of 11
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	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		


**Secondary Framing (Structural Members and Special Plates) for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
11	FB-1	FLANGE BRACE L2X2X1/8	2'-9 13/16"	0	0	HDG	51.00
11	FB-2	FLANGE BRACE L2X2X1/8	2'-7 7/8"	0	0	HDG	48.00
11	FB-3	FLANGE BRACE L2X2X1/8	2'-9 1/4"	0	0	HDG	50.00
11	FB-4	FLANGE BRACE L2X2X1/8	3'-0 1/2"	0	0	HDG	55.00
<b>44</b>	Sub Total Weight For Secondary Framing (Structural Members and Special Plates):						<b>204</b>

 <p><b>Shop Work Order</b></p> <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 3 of 11
	BY:	HPR	DATE:	09/15/2021
	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		

**Cold Form Roll Form for Phase: 0**


Qty	Mark	Description	Length	GA	Flat	Color	Weight
4	3P-1	(8x25Z16)	29' 5 1/2"	16	13.9375	Galv	334.20
2	3P-2	(8x25Z16)	29' 5 1/2"	16	13.9375	Galv	167.10
24	3P-3	(8x25Z16)	28' 5 1/2"	16	13.9375	Galv	1937.04
9	3P-4	(8x25Z16)	28' 5 1/2"	16	13.9375	Galv	726.39
1	3P-5	(8x25Z16)	28' 5 1/2"	16	13.9375	Galv	80.71
2	3P-6	(8x25Z16)	28' 5 1/2"	16	13.9375	Galv	161.42
5	3P-7	(8x25Z16)	29' 5 1/2"	16	13.9375	Galv	417.75
1	3P-8	(8x25Z16)	29' 5 1/2"	16	13.9375	Galv	83.55
2	4P-1	(8x25Z14)	26' 3 1/2"	14	13.9375	Galv	186.28
4	4P-2	(8x25Z14)	29' 2 1/2"	14	13.9375	Galv	413.92
2	4P-3	(8x25Z14)	29' 2 1/2"	14	13.9375	Galv	206.96
4	4P-4	(8x25Z14)	29' 2 1/2"	14	13.9375	Galv	413.92
1	4P-5	(8x25Z14)	29' 2 1/2"	14	13.9375	Galv	103.48
1	4P-6	(8x25Z14)	29' 2 1/2"	14	13.9375	Galv	103.48
2	4P-7	(8x25Z14)	26' 3 1/2"	14	13.9375	Galv	186.28
1	1ES-1	(8ES14)	25' 11 1/2"	14	17.9375	Galv	118.36
8	1ES-2	(8ES14)	23' 11 1/2"	14	17.9375	Galv	873.92
1	1ES-3	(8ES14)	25' 11 1/2"	14	17.9375	Galv	118.36
1	2ES-1	(8ES14)	25' 11 1/2"	14	17.9375	Galv	118.36
8	2ES-2	(8ES14)	23' 11 1/2"	14	17.9375	Galv	873.92
1	2ES-3	(8ES14)	25' 11 1/2"	14	17.9375	Galv	118.36
3	RC08-2	RAKE CHANNEL ( 8 1/8 C X 2 15/16 +/- X 14 GA) ( OPEN FACE )	20'-0"	14	0	Galv	212.56
<b>87</b>	Sub Total Weight For Cold Form Roll Form:						<b>7956.32</b>

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	BY:	HPR	DATE:	09/15/2021
	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		

**Screw Down Panels for Phase: 0**


Qty	Mark	Description	Length	GA	Flat	Color	Weight
82	R24-1	'PBR' ROOF PANELS (UL-90)	28'-4 3/4"	24	38.28	KYNAR-AMND	8475.59
<b>82</b>		Sub Total Weight For Screw Down Panels:					<b>8475.59</b>



 <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 5 of 11
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	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		


**Standard Trim for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
123	T45-1	GUTTER STRAP/STD	0'-8"	26	3	KYNAR-AMND	40.59
1	T14BL-1	GUTTER END STOP/STD/LEFT ( 1 : 12 )		26	7.4375	KYNAR-AMND	0.82
1	T14BR-1	GUTTER END STOP/STD/RIGHT ( 1 : 12 )		26	7.4375	KYNAR-AMND	0.82
12	T11B-1	EAVE CLOSURE TRIM ( 1 : 12 )	20'-6"	26	8.75	KYNAR-AMND	135.30
1	T11B-2	EAVE CLOSURE TRIM ( 1 : 12 )	10'-0"	26	8.75	KYNAR-AMND	5.50
1	T43BL-1	HIGHSIDE CORNER BOX/LEFT ( 1 : 12 )		26	19	KYNAR-AMND	2.09
1	T43BR-1	HIGHSIDE CORNER BOX/RIGHT ( 1 : 12 )		26	19	KYNAR-AMND	2.09
2	T01-1	GABLE TRIM/STD	20'-6"	26	20.625	KYNAR-AMND	93.07
2	T01-2	GABLE TRIM/STD	15'-0"	26	20.625	KYNAR-AMND	68.10
12	T10B-1	EAVE GUTTER/STD ( 1 : 12 )	20'-6"	26	21.1875	KYNAR-AMND	573.18
1	T10B-2	EAVE GUTTER/STD ( 1 : 12 )	10'-0"	26	21.1875	KYNAR-AMND	23.30
12	T06B-1	HIGHSIDE EAVE TRIM/STD ( 1 : 12 ) (B =85.24° )	20'-6"	26	21.625	KYNAR-AMND	585.48
1	T06B-2	HIGHSIDE EAVE TRIM/STD ( 1 : 12 ) (B =85.24° )	10'-0"	26	21.625	KYNAR-AMND	23.80
1	T40BL-1	GABLE CORNER BOX/STD/LEFT ( 1 : 12 )		26	23	KYNAR-AMND	2.53
1	T40BR-1	GABLE CORNER BOX/STD/RIGHT ( 1 : 12 )		26	23	KYNAR-AMND	2.53
<b>172</b>	Sub Total Weight For Standard Trim:						<b>1559.2</b>

 <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 6 of 11
	BY:	HPR	DATE:	09/15/2021
	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		


**Special Trim for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
12	T05H08-3	H.S. EAVE/SPACER TRIM ( A =94.76° ), ( D = 6 1/2 ) ( 8" PURLINS )	20'-6"	26	0	KYNAR-AMND	209.77
1	T05H08-4	H.S. EAVE/SPACER TRIM ( A =94.76° ), ( D = 6 1/2 ) ( 8" PURLINS )	10'-0"	26	0	KYNAR-AMND	8.53
12	T05L08-1	EAVE SPACER TRIM ( B =85.24° ), ( D = 6 1/2 ) ( 8" PURLINS )	20'-6"	26	0	KYNAR-AMND	209.77
1	T05L08-2	EAVE SPACER TRIM ( B =85.24° ), ( D = 6 1/2 ) ( 8" PURLINS )	10'-0"	26	0	KYNAR-AMND	8.53
2	T05L08-5	GABLE SPACER TRIM ( B =90° ), ( D = 6 1/2 ) ( 8" PURLINS )	20'-6"	26	0	KYNAR-AMND	34.96
2	T05L08-6	GABLE SPACER TRIM ( B =90° ), ( D = 6 1/2 ) ( 8" PURLINS )	15'-0"	26	0	KYNAR-AMND	25.58
<b>30</b>		Sub Total Weight For Special Trim:					<b>497.14</b>

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	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		


**Fluted Downspouts for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
11	DS5405-1	DOWNSPOUT RETURN - IN		26	19.5625	KYNAR-AMND	23.65
11	DSS54	DOWNSPOUT SLEEVE		26	19.5625	GALVME	15.95
<b>22</b>		Sub Total Weight For Fluted Downspouts:					<b>39.6</b>

 <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 8 of 11
	BY:	HPR	DATE:	09/15/2021
	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		


**Hardware (Sealant, Screws, Pop Rivets, Standing Seam HW) for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
800	BR1-1	1/8" x 3/16" Grip Blind Rivet SS ( TRIM )		0	0	KYNAR-AMND	1.60
2700	RF3-1	14 X 7/8" SD, HH, with Washer, ZAC ( ROOF / TRIM )		0	0	ZAC -AMND	48.60
1300	WF1-1	#12 X 1 1/4" U Seal SDS T-3 ( TRIM )		0	0	KYNAR-AMND	20.15
500	WF2-1	#14 X 7/8" U Seal STS T-3 Lap ( TRIM )		0	0	KYNAR-AMND	8.00
100	CF2-1	#10 - 12 x 1" PHILLIPS DRIVE, PAN-HEAD SCREW		0	0	PLN	0.08
81	LS400	ROLL SEALANT 3/32" x 3/4" ( 45'-0" ROLL )		0	0	UNPT	145.80
2800	RF2-1	#12-14 X 1 1/4" SD, HH, with Washer, ZAC ( ROOF )		0	0	ZAC -AMND	44.80
8	TCTB-1	TUBE CAULK ( 50'-0" / TUBE )		0	0	UNPT	16.00
<b>8289</b>	Sub Total Weight For Hardware (Sealant, Screws, Pop Rivets, Standing Seam HW):						<b>285.03</b>

 <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 1) Ttl. 9 of 11
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	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
	CUSTOMER:	Sienna Construction LLC		

**Hardware (Bolts-Washers-Strapping-Closures) for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
57	PN50100	1/2" X 1" A307 PAN-HEAD BOLTS W/NUTS		0	0	ZNC	5.70
87	CLORI-1	3'-0" INSIDE CLOSURE ( TYPE = R )		0	0	UNPT	0.13
87	CLORO-1	3'-0" OUTSIDE CLOSURE ( TYPE = R )		0	0	UNPT	0.13
18	H63150	5/8" X 1 1/2" A325 HIGH STRENGTH BOLTS W/NUTS		0	0	Galv	5.96
50	H63200	5/8" X 2" A325 HIGH STRENGTH BOLTS W/NUTS		0	0	Galv	18.70
92	H75250	3/4" X 2 1/2" A325 HIGH STRENGTH BOLTS W/NUTS		0	0	Galv	59.80
570	M50100	1/2" X 1" A307 STANDARD BOLTS W/NUTS		0	0	ZNC	74.10
<b>961</b>		Sub Total Weight For Hardware (Bolts-Washers-Strapping-Closures):					<b>164.52</b>

 <p><b>STEEL BUILDING SYSTEMS</b> 3333 S. Council Rd. Oklahoma City, OK 73179 (405) 745-7500 fax (405) 261-0690</p>	JOB NO:	21-349	SHT NO:	(Dpt. 1 of 2) Ttl. 10 of 11
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	CK'D:		DATE:	
	JOB LOCATION:	Baton Rouge, LA		
CUSTOMER:		Sienna Construction LLC		

**Rod Bracing for Phase: 0**

Qty	Mark	Description	Length	GA	Flat	Color	Weight
4	RD50-1	1/2" ROD (ROD Assembly w/Hardware)	26'-1"	0	0	HDG	73.03
4	RD50-2	1/2" ROD (ROD Assembly w/Hardware)	31'-4"	0	0	HDG	87.73
<b>8</b>		Sub Total Weight For Rod Bracing:					<b>160.76</b>

# Shop Work Order



**STEEL BUILDING SYSTEMS**

3333 S. Council Rd. Oklahoma City, OK 73179  
(405) 745-7500 fax (405) 261-0690

JOB NO:	21-349	SHT NO:	(Dpt. 2 of 2) Ttl. 11 of 11
BY:	HPR	DATE:	09/15/2021
CK'D:		DATE:	
JOB LOCATION:	Baton Rouge, LA		
CUSTOMER:	Sienna Construction LLC		





# SUBMITTAL REVIEW COMMENTS



PROJECT NAME: BR EMS – Phase II  
ADG #: 20-187 SHEET #: 1 OF 42  
RECEIVED DATE: 8.25.21 REVIEWED DATE: 8.27.21  
REVIEWED BY: Salvatore Culotta  
SUBMITTAL: 26 Electrical Gear

NO EXCEPTION TAKEN     MAKE CORRECTIONS NOTED     REJECTED  
 REVISE AND RESUBMIT     SUBMIT SPECIFIC ITEM

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the jobsite; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work.

BY: Salvatore Culotta DATE: 8.27.21

**The following comments refer to submittals on the above referenced projects:**

1. Branch circuit breakers were not reviewed; contractor shall verify.
2. Breakers for the SPD shall be installed as close as possible to the SPD. See Detail 6 on sheet E9 for more information.

**END OF COMMENT**

**CONTRACTOR:  
TC ELECTRIC**

**PROJECT NAME:  
EMS PHASE 2**

**SUBMITTAL FOR  
APPROVAL:  
GEAR**

 SIENNA CONSTRUCTION LLC	By: <u>Preston Thibodeaux</u> Date: <u>8/26/2021</u>
<input checked="" type="checkbox"/> No Exceptions Taken	<input type="checkbox"/> Make Corrections Noted
<input type="checkbox"/> Revise & Resubmit	<input type="checkbox"/> Rejected
Review is only for general compliance with the design concept and the information given in the contract documents. Any action shown is subject to the requirements of the contract documents for; dimension and quantities, which shall be confirmed and correlated at the job site; fabrication processes and techniques of all construction; coordination of his/her work and that of all other trades; and the satisfactory execution of the work.	

**DATE:  
8/25/2021**



- 1 - 3VA Mechanical (1)#14-3/0 AL / CU Lug
- 1 - Catalog #: 3VA41206ED140AA0
- 3 - GB PROVISION
- 1 - 3VA526X PROVISION
- 1 - 175A /3P-3VA52-HFAS
  - 1 - Mechanical (1)#6 AWG- 350 KCMIL AL / CU Lug
  - 1 - Lug Catalog #: 3VA92330JB12
  - 1 - Catalog #: 3VA52176EC310AA0
- Enclosure, Catalog Number PB90
- 1 - P4 BOX 32WX10DX90H

21000

1

## LA--PANELBOARD P4

- 1 - SECTION  
P4C90JD400ETS, System Voltage: 208Y/120 3Ø 4W Wye AC, IR @ 22,000  
AIC, Top Feed, Surface Mount, Bus Rating: 400A, Bus Material: Copper,  
Plating: Silver, NEMA 1 INDOOR.
- 1 - INTERIOR W/ 400A /3P-JXD2 MAIN BREAKER
  - 1 - (2)3/0-500Kcmil Cu/ 4/0-500 Al
  - 1 - Std Stl/Al Gnd Connector
  - 1 - Master NP Secured -Adhesive
  - 1 - Feed Thru Lug
  - 1 - Card Holder-Std Plastic Sleeve
  - 1 - Certification - UL
  - 1 - Special Front Door in Door
  - 1 - Catalog #: JXD23B400
- 2 - 20A /3P-BLH
  - 1 - Catalog #: B320H
- 2 - 20A /2P-BLH
  - 1 - Catalog #: B220H
- 25 - 20A /1P-BLH
  - 1 - Catalog #: B120H
- 1 - 30A /2P-BLH
  - 1 - Catalog #: B230H
- 3 - 35A /2P-BLH
  - 1 - Catalog #: B235H
- 1 - 20A /1P-BLHF2-GFCI
  - 1 - Catalog #: BF120AH
- 20 - 50A /1P-BLH
  - 1 - Catalog #: B150H
- 2 - BL/BQD PROVISION  
Enclosure, Catalog Number PB90
  - 2 - P4 BOX 32WX10DX90H
- 1 - SECTION 2  
P4C90ML400EBS, System Voltage: 208Y/120 3Ø 4W Wye AC, IR @ 22,000  
AIC, Bottom Feed, Surface Mount, Bus Rating: 400A, Bus Material: Copper,  
Plating: Silver, NEMA 1 INDOOR.
- 8 - 20A /3P-BLH
  - 1 - Catalog #: B320H
- 1 - 30A /3P-BLH
  - 1 - Catalog #: B330H

- 1 - 20A /2P-BLH
  - 1 - Catalog #: B220H
- 37 - 20A /1P-BLH
  - 1 - Catalog #: B120H
- 1 - 25A /2P-BLH
  - 1 - Catalog #: B225H
- 6 - 50A /1P-BLH
  - 1 - Catalog #: B150H
- 4 - BL/BQD PROVISION
- 1 - SPD
  - 1 - 100kA Distribution TPS3 SPD
  - 1 - SPD Surge Counter
  - 1 - Catalog #: US2:TPS3C0510X2
- 1 - INTERIOR W/ 400A MAIN LUG
  - 1 - (1)250-500Kcmil
  - 1 - Std Stl/Al Gnd Connector
  - 1 - Card Holder-Std Plastic Sleeve
  - 1 - Master NP Secured -Adhesive
  - 1 - Certification - UL
  - 1 - Special Front Door in Door

- 22000            1            CA--PANELBOARD P2
- 1 - SECTION
 

P2C30BL100FTS, System Voltage: 208Y/120 3Ø 4W Wye AC, IR @ 10,000 AIC, Top Feed, Surface Mount, Bus Rating: 250A, Bus Material: Copper, Plating: Tin, NEMA 1 INDOOR.
  - 1 - INTERIOR W/ 100A /3P-BL MAIN BREAKER
    - 1 - (1)#4-#1/0 Cu / #2-#1/0 Al
    - 1 - Master NP Secured -Adhesive
    - 1 - Card Holder-Std Plastic Sleeve
    - 1 - Certification - UL
    - 1 - Std Al/Cu Gnd Connector
    - 1 - Catalog #: B3100
  - 1 - 30A /3P-BL
    - 1 - Catalog #: B330
  - 27 - 20A /1P-BL
    - 1 - Catalog #: B120
  - 1 - SPD
    - 1 - Bus Connected SPD
    - 1 - 100kA Panelboard TPS3 SPD
    - 1 - SPD Surge Counter
    - 1 - Catalog #: US2:TPS3C0110X002

Enclosure, Catalog Number B44

    - 1 - 20W TYPE 1 BOX W/O GROUND BUS, 44H X 20W

Front, Catalog Number S44D

    - 1 - DOOR-N-DOOR FRONT ASSY 20W 44H, SURFACE

- 1100            1            TLA--3F3YXXXCD16 -112.5KVA SERIES H
- Standard Dry Type, 3 Phase, 112.5 KVA, 480 Primary Voltage, 208Y/120 Secondary

Voltage, Transformer Core: Copper-Wound, 6 - 2.5% (2 FCAN 4 FCBN) Taps, 150C, Ventilated, Copper Windings (C), Drip Shield Kit: Provided With Transformer, Seismic Rated: SEISMIC REQUIRES FLOOR MOUNT, Primary Lugs - Cable Range: (3) #6 - 350 KCMIL, Secondary Lugs - Cable Range: (8) #6 - 350 KCMIL.  
Catalog No.: A6X30105229

1 - XFMR LUG KIT, THREE PHASE, 112.5 KVA - TLK34Q

1200	1	CA--3F3YXXCD16 -30KVA SERIES H Standard Dry Type, 3 Phase, 30 KVA, 480 Primary Voltage, 208Y/120 Secondary Voltage, Transformer Core: Copper-Wound, 6 - 2.5% (2 FCAN 4 FCBN) Taps, 150C, Ventilated, Copper Windings (C), Drip Shield Kit: Provided With Transformer, Wall Bracket Kit: PROVIDED, Seismic Rated: SEISMIC REQUIRES FLOOR MOUNT. Catalog No.: A6X30104993
13	5	Standard Product--30A 3P 600V 3W NON FUSED HD TYPE 1 Catalog No.: HNF361
14	3	Standard Product--60A 3P 600V 3W NON FUSED HD TYPE 1 Catalog No.: HNF362
15	5	Standard Product--HD SAFTEY SWITCH NF 3P3W 600V 30A N3R Catalog No.: HNF361R
16	5	Standard Product--30A 3P 600V 3W NON FUSED HD TYPE 1 Catalog No.: HNF361

#### Global Notes:

#### Important Update:

As a result of the global Covid-19 Virus outbreak, temporary delays in delivery, labor or services from Siemens and its sub-suppliers or subcontractors may occur. Among other factors, Siemens' delivery is subject to the correct and punctual supply from sub-suppliers or subcontractors, and Siemens reserves the right to make partial deliveries or modify its labor or services. While Siemens shall make every commercially reasonable effort to meet the delivery or service or completion date mentioned above, such date is subject to change and buyer shall not be entitled to any damages resulting from such delays

#### Cancellation Schedule:

In the event that Buyer cancels the purchase order, or portions of the purchase order in writing, the following charges, as a percentage of the total purchase order price for the order, or application portions thereof, will apply:

After receipt of order or before approval drawings are completed	15%
After approval drawing completion, but before release to manufacturing	30%
Before start of fabrication, but after major component purchase	60%
After start of fabrication, but before start of assembly	80%
After assembly has started	100%

# SIEMENS

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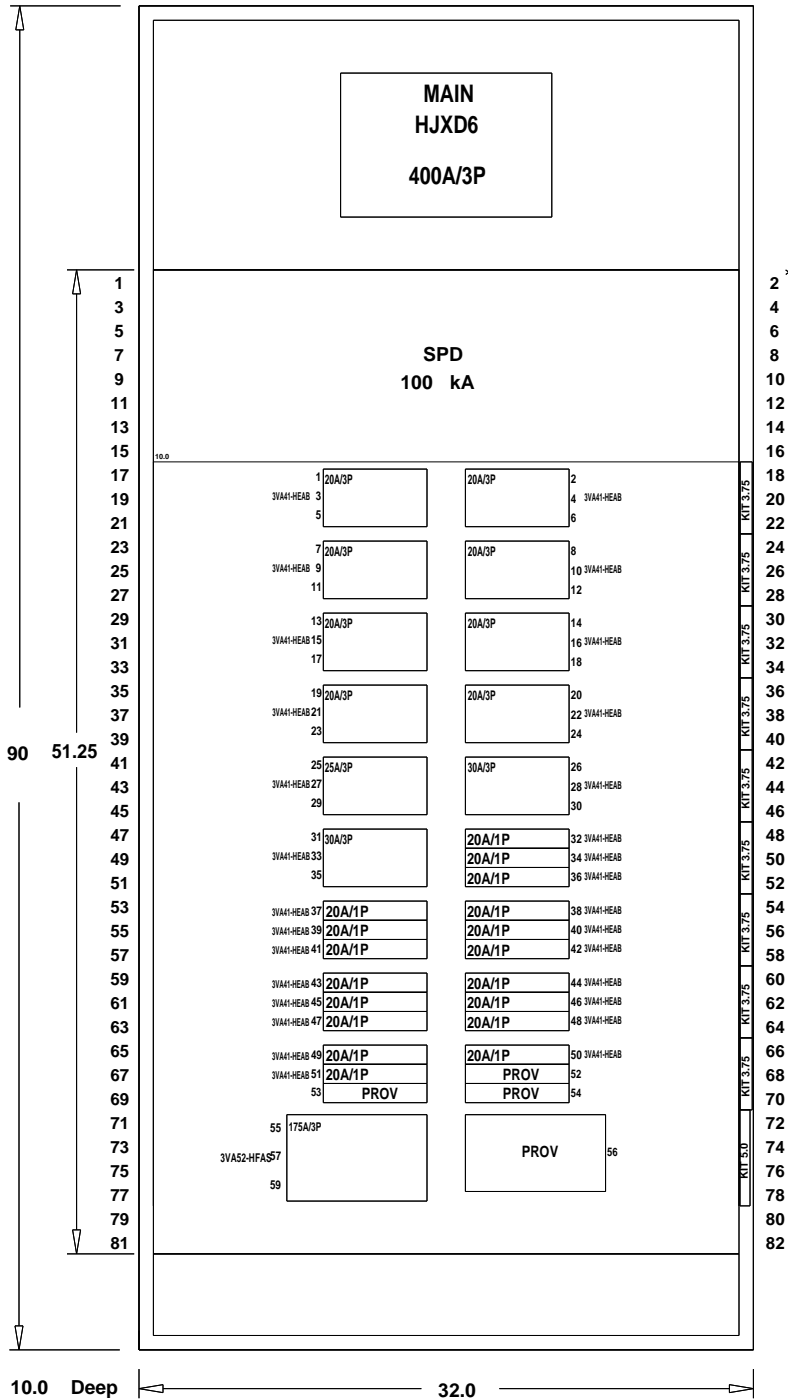
Project Name: EMS\_TC  
Quote #: pigljm10c\_03222100\_00\_09\_M00

Product Family: Panelboards

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CONTENTS: TYZ:PANELBOARD TYZ:PANELBOARD

SECTION :1 OF 1  
 PANEL TYPE :P4  
 CATALOG NUMBER :P4E90H5400ETS  
 ENCLOSURE :1 Indoor  
 SYSTEM VOLTAGE :480Y/277 3Ø 4W Wye AC  
 IR RATING :42 K AIC  
 MAIN BUS :400 A  
 BUS MATERIAL :Silver Plated Copper  
 FEED :Top  
 MOUNTING :Surface  
 SE LABEL :No  
 SERIES RATED :No  
 CONDUIT AREA :30.000 x 8.00  
 \*INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



**PANELBOARD COMPONENTS**

- Main :**  
 1 - 400A /3P-HJXD6 MAIN BREAKER  
 1-(2)3/0-500Kcmil Cu/ 4/0-500 Al
- Branches :**  
 8 - 20A /3P-3VA41-HEAB  
 1-3VA Mechanical (1)#14-3/0 AL Lug  
 1 - 25A /3P-3VA41-HEAB  
 1-3VA Mechanical (1)#14-3/0 AL Lug  
 2 - 30A /3P-3VA41-HEAB  
 1-3VA Mechanical (1)#14-3/0 AL Lug  
 18 - 20A /1P-3VA41-HEAB  
 1-3VA Mechanical (1)#14-3/0 AL Lug  
 3 - GB PROVISION  
 1 - 3VA526X PROVISION  
 1 - 175A /3P-3VA52-HFAS  
 1-Mechanical (1)#6 AWG- 350 KCMIL AL Lug  
 1-Lug Catalog #: 3VA92330JB12
- Options :**  
 1-Std Stl/Al Gnd Connector  
 1-Master NP Secured -Adhesive  
 1-Card Holder-Std Plastic Sleeve  
 1-Certification - UL  
 1-Special Front Door in Door  
 1-100kA Distribution TPS3 SPD  
 1-SPD Surge Counter

				JOB <b>EMS</b>			
				P.O. -		CUST. <b>CRAWFORD ELECTRIC SUPPLYCOMPANY INC</b>	
				CONTR -		CONSULT -	
				TIE -		BY <b>piqljm10c</b>	
				S.O. -		DATE <b>4-14-2021</b>	
				DWG. NO.		DESIGNATION <b>HA</b>	
				<b>Siemens Industry, Inc.</b>			
				APP. -		MFG. LOC. -	
				APP. -		DWG. FILE -	
				SHEET <b>1</b> OF <b>5</b>			
				REV. <b>1</b>			
				Norcross, Georgia			

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NO.	REVISIONS	DRAWN BY	DATE





## CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
1/3/5	9	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
7/9/11	12	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
13/15/17	15	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
19/21/23	18	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
25/27/29	21	25	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
31/33/35	24	30	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
37	29	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
39	31	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
41	33	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
43	36	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
45	38	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
47	40	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
49	43	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
51	45	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
53	47	-	1	VLG-PROV	-	-	-	-	-
55/57/59	50	175	3	3VA52-HFAS	65,000	N/A	-	(1)#6 AWG - 350 KCMIL CU/AL	-
2/4/6	10	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
8/10/12	13	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
14/16/18	16	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
20/22/24	19	20	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
26/28/30	22	30	3	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
32	25	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
34	26	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
36	27	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
38	30	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
40	32	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
42	34	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
44	37	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
46	39	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
48	41	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
50	44	20	1	3VA41-HEAB	65,000	N/A	-	(1)#14-3/0 AL	-
52	46	-	1	VLG-PROV	-	-	-	-	-
54	48	-	1	VLG-PROV	-	-	-	-	-
56/58/60	51	-	3	3VA526X-PROV	-	-	-	-	-

<b>JOB</b>			
<b>EMS</b>			
P.O. -		CUST. CRAWFORD ELECTRIC SUPPLYCOMPANY INC	
CONTR. -		CONSULT -	
TIE -		BY pigljm10c	ENG. LOC. -
S.O. -		DATE 4-14-2021	DESIGNATION HA
DWG. NO. pigljm10c_03222100_00_09_M00-20000-3			
<b>Siemens Industry, Inc.</b>			
APP. -	MFG. LOC. -	REV. -	
APP. -	DWG. FILE -	SHEET 3 OF 5	
Norcross, Georgia			1

# TPS3 05

## Type 1 / 2 Surge Protection Device (SPD) for P4 & P5 Panelboards and Distribution Switchboards

### Features:

- Mounts internal to:
  - P4 & P5 panelboards and distribution switchboards
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Recognized Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA  $I_n$  (most models)
- 200 kA SCCR (most models)
- All UL required OCP & safety coordination included
  - Type 1 SPDs intended for Line or Load side of Main Disconnect
  - Type 2 SPDs intended for Load side of Main Disconnect
- UL96A Lightning Protection Master Label compliant (@20kA  $I_n$ )
- Designed, manufactured and tested consistent with:
  - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2007 & CSA C22.2 No. 269.1 and .2
  - 1992/2000 NEMA LS-1
  - NEC Article 285
  - IEC 61643, CE
- 10 year warranty

- Panelboard
  - Copper or aluminum bus
  - MB or MLO
- SPD Specifications
  - Directly connected discrete protection elements between all possible modes providing true 10 mode protection
  - Surge Current Rating Per Phase
 

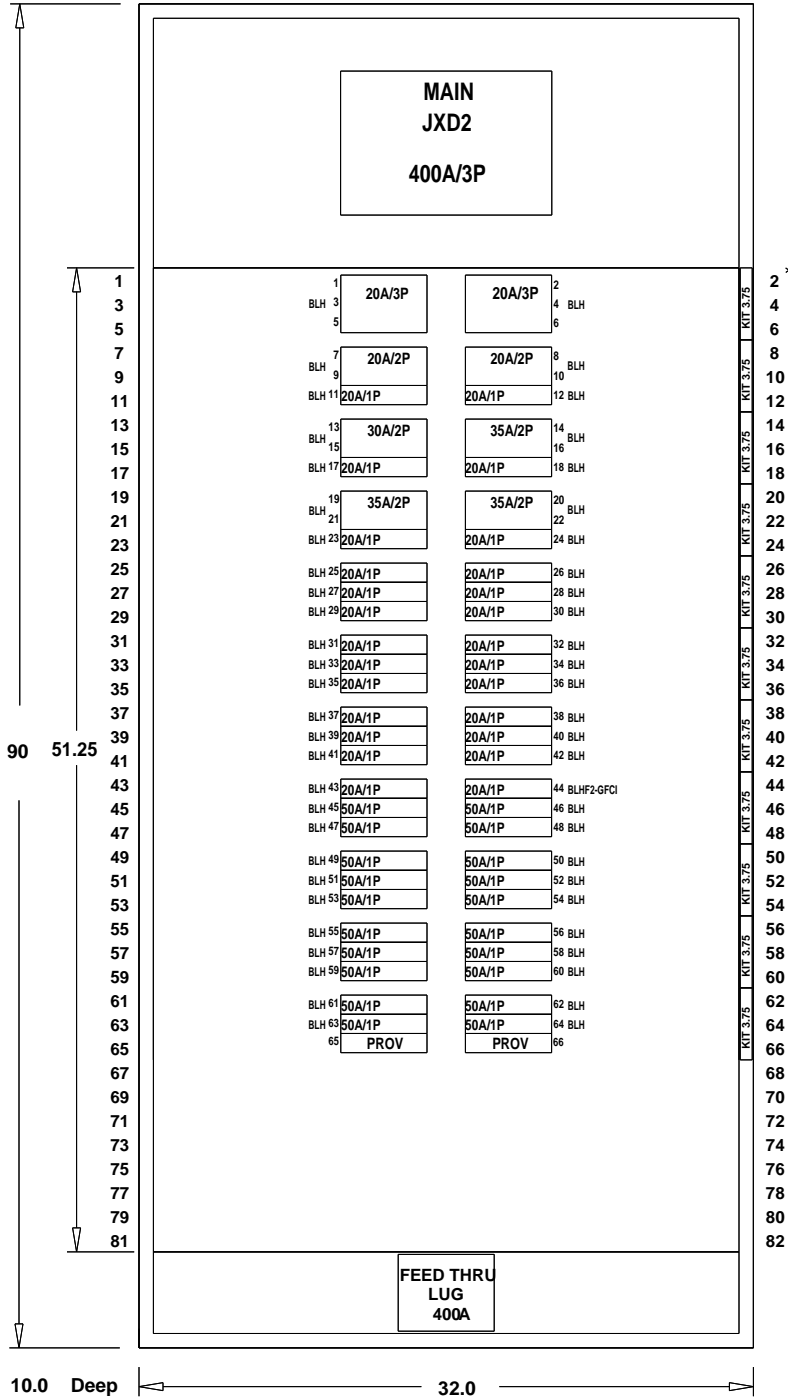
Per Phase	L-N	L-G	N-G
100 kA	50 kA	50 kA	50 kA
150 kA	100 kA	50 kA	50 kA
200 kA	100 kA	100 kA	100 kA
250 kA	150 kA	100 kA	100 kA
300 kA	150 kA	150 kA	150 kA
  - 100% monitoring (Every MOV is monitored, incl. N-G)
  - EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)
  - Repetitive impulse: 5,000 hits
  - Less than 1/2 nanosecond response time
  - Relative humidity range: 1-95% non-condensing
  - Operating frequency: 47-63 Hz
  - Operating temperature: -25°C (-15°F) to +60°C (140°F)

- Switchboard Features
  - Copper or aluminum bus
  - 200% rated neutral bus for harmonic-rich applications
  - CSA, UL 891, UL 67 and NEMA PB-2





SECTION :1 OF 2  
 PANEL TYPE :P4  
 CATALOG NUMBER :P4C90JD400ETS  
 ENCLOSURE :1 Indoor  
 SYSTEM VOLTAGE :208Y/120 3Ø 4W Wye AC  
 IR RATING :22 K AIC  
 MAIN BUS :400 A  
 BUS MATERIAL :Silver Plated Copper  
 FEED :Top  
 MOUNTING :Surface  
 SE LABEL :No  
 SERIES RATED :No  
 CONDUIT AREA :30.000 x 8.00  
 \*INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



**PANELBOARD COMPONENTS**

**Main :**  
 1 - 400A /3P-JXD2 MAIN BREAKER  
 1-(2)3/0-500Kcmil Cu/ 4/0-500 Al

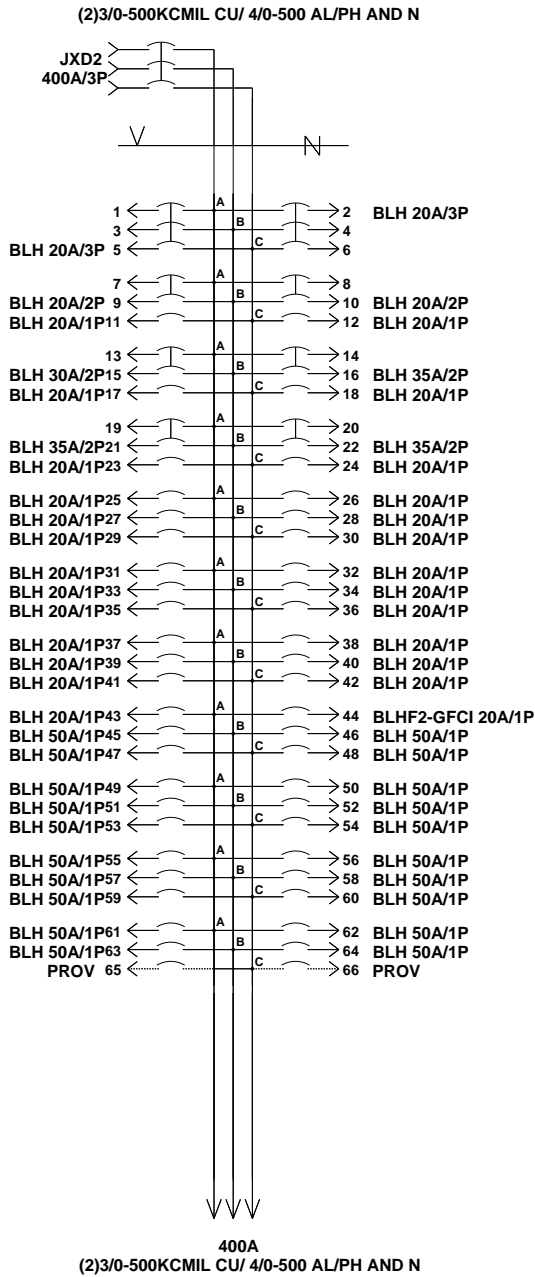
**Branches :**  
 2 - 20A /3P-BLH  
 2 - 20A /2P-BLH  
 25 - 20A /1P-BLH  
 1 - 30A /2P-BLH  
 3 - 35A /2P-BLH  
 1 - 20A /1P-BLHF2-GFCI  
 20 - 50A /1P-BLH  
 2 - BL/BQD PROVISION

**Options :**  
 1-Std Stl/Al Gnd Connector  
 1-Master NP Secured -Adhesive  
 1-Feed Thru Lug  
 1-Card Holder-Std Plastic Sleeve  
 1-Certification - UL  
 1-Special Front Door in Door

				<b>EMS</b>			
				P.O. -		CUST. CRAWFORD ELECTRIC SUPPLYCOMPANY INC	
				CONTR -		CONSLT -	
				TIE -		BY pigljm10c	
				S.O. -		DATE 8-25-2021	
						DESIGNATION LA	
				DWG. NO. pigljm10c_03222100_00_09_M00-21000-1			
				<b>Siemens Industry, Inc.</b>			
				Norcross, Georgia		APP. MFG. LOC.	
				APP. DWG. FILE		SHEET 1 of 12	
						REV. 1	
1	0	0	0	0	0	0	0
NO.	REVISIONS		DRAWN BY	DATE			

**PANELBOARD NOTES**

SECTION :1 OF 2  
 PANEL TYPE :P4  
 CATALOG NUMBER :P4C90JD400ETS  
 ENCLOSURE :1 Indoor  
 SYSTEM VOLTAGE :208Y/120 3Ø 4W Wye AC  
 IR RATING :22 K AIC  
 MAIN BUS :400 A  
 BUS MATERIAL :Silver Plated Copper  
 FEED :Top  
 MOUNTING :Surface  
 SE LABEL :No  
 SERIES RATED :No  
 CONDUIT AREA :30.000 x 8.00  
 \*INDICATES POSITIONING NUMBERS TO HELP WITH THE  
 MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



**ABBREVIATIONS**

'MLO' MAIN LUGS ONLY  
 'SPD' SURGE PROTECTIVE DEVICE

JOB <b>EMS</b>			
P.O. -	CUST. <b>CRAWFORD ELECTRIC SUPPLYCOMPANY INC</b>		
CONTR -	CONSULT -		
TIE -	BY <b>piqljm10c</b>	ENG. LOC. -	DESIGNATION <b>LA</b>
S.O. -	DATE <b>8-25-2021</b>		
DWG. NO. <b>piqljm10c_03222100_00_09_M00-21000-2</b>			
<b>Siemens Industry, Inc.</b>			
APP. -	MFG. LOC. -	REV. 1	
APP. -	DWG. FILE	SHEET <b>2</b> OF <b>12</b>	
Norcross, Georgia			

## CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
1/3/5	320	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
7/9	323	20	2	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
11	325	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
13/15	328	30	2	BLH	22,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
17	330	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
19/21	333	35	2	BLH	22,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
23	335	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
25	338	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
27	340	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
29	342	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
31	345	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
33	347	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
35	349	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
37	352	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
39	354	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
41	356	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
43	359	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
45	361	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
47	363	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
49	366	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
51	368	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
53	370	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
55	373	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
57	375	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
59	377	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
61	380	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
63	382	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
65	384	-	1	B-PROV	-	-	-	-	-
2/4/6	321	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
8/10	324	20	2	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
12	326	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
14/16	329	35	2	BLH	22,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
18	331	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
20/22	334	35	2	BLH	22,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
24	336	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
26	339	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
28	341	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
30	343	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
32	346	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
34	348	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
36	350	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
38	353	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
40	355	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
42	357	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
44	360	20	1	BLHF2-GFCI	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
46	362	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
48	364	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
50	367	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-

<b>JOB</b>			
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P.O.	-		
CUST.	CRAWFORD ELECTRIC SUPPLYCOMPANY INC		
CONTR.	-		
CONSLT	-		
TITLE	BY	ENG. LOC.	DESIGNATION
-	piqljm10c	-	LA
S.O.	DATE		
-	8-25-2021		
DWG. NO.			
piqljm10c_03222100_00_09_M00-21000-3			
<b>Siemens Industry, Inc.</b>			
APP.	MFG. LOC.		
APP.	DWG. FILE	SHEET 3 OF 12	
Norcross, Georgia			REV. 1

## CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
52	369	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
54	371	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
56	374	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
58	376	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
60	378	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
62	381	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
64	383	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
66	385	-	1	B-PROV	-	-	-	-	-

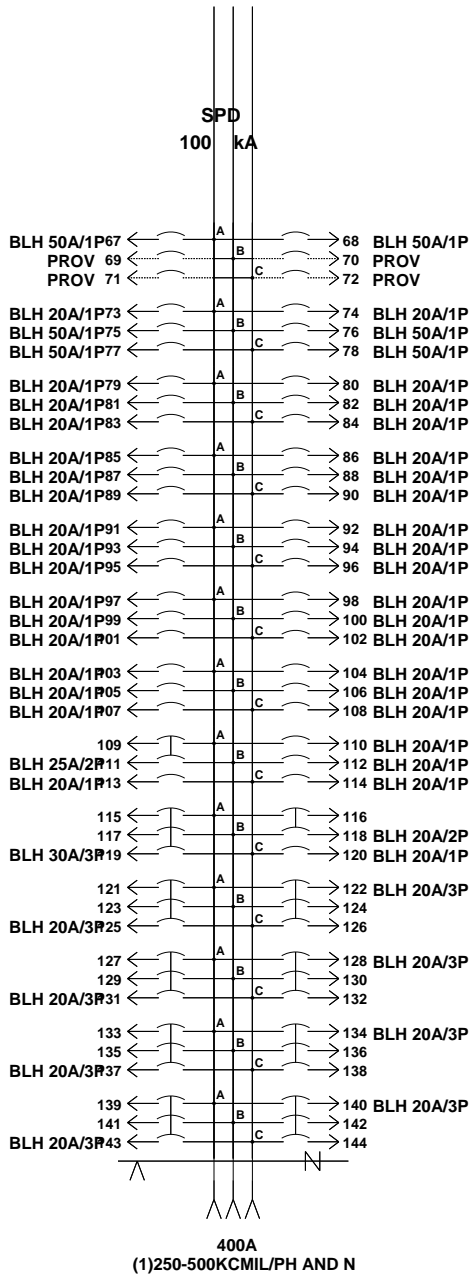
<b>JOB</b>			
<b>EMS</b>			
P.O.	-	CUST.	CRAWFORD ELECTRIC SUPPLYCOMPANY INC
CONTR	-	CONSLT	-
TIE	-	BY	ENG. LOC.
S.O.	-	DATE	DESIGNATION
		8-25-2021	LA
Siemens Industry, Inc.		DWG. NO.	
Norcross, Georgia		pigljm10c_03222100_00_09_M00-21000-4	
APP.	MFG. LOC.	APP.	REV.
		DWG. FILE	1
SHEET 4 OF 12			





**PANELBOARD NOTES**

SECTION :2 OF 2  
 PANEL TYPE :P4  
 CATALOG NUMBER :P4C90ML400EBS  
 ENCLOSURE :1 Indoor  
 SYSTEM VOLTAGE :208Y/120 3Ø 4W Wye AC  
 IR RATING :22 K AIC  
 MAIN BUS :400 A  
 BUS MATERIAL :Silver Plated Copper  
 FEED :Bottom  
 MOUNTING :Surface  
 SE LABEL :No  
 SERIES RATED :No  
 CONDUIT AREA :30.000 x 8.00  
 \*INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



**ABBREVIATIONS**

'MLO' MAIN LUGS ONLY  
 'SPD' SURGE PROTECTIVE DEVICE

JOB <b>EMS</b>			
P.O. -	CUST. <b>CRAWFORD ELECTRIC SUPPLYCOMPANY INC</b>		
CONTR -	CONSULT -		
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S.O. -	DATE <b>8-25-2021</b>		
DWG. NO. <b>piqljm10c_03222100_00_09_M00-21000-8</b>			
<b>Siemens Industry, Inc.</b>			
APP. -	MFG. LOC. -	REV. 1	
APP. -	DWG. FILE	SHEET <b>8</b> OF <b>12</b>	
Norcross, Georgia			

## CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
67	458	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
69	460	-	1	B-PROV	-	-	-	-	-
71	462	-	1	B-PROV	-	-	-	-	-
73	451	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
75	453	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
77	455	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
79	444	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
81	446	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
83	448	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
85	437	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
87	439	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
89	441	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
91	430	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
93	432	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
95	434	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
97	423	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
99	425	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
101	427	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
103	416	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
105	418	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
107	420	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
109/111	410	25	2	BLH	22,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
113	413	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
115/117/119	406	30	3	BLH	22,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
121/123/125	403	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
127/129/131	400	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
133/135/137	397	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
139/141/143	394	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
68	459	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
70	461	-	1	B-PROV	-	-	-	-	-
72	463	-	1	B-PROV	-	-	-	-	-
74	452	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
76	454	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
78	456	50	1	BLH	22,000	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
80	445	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
82	447	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
84	449	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
86	438	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
88	440	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
90	442	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
92	431	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
94	433	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
96	435	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
98	424	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
100	426	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
102	428	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
104	417	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-

<b>JOB</b>			
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P.O.	-		
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CONTR.	-		
CONSLT	-		
TIE	-		
BY	pigljm10c		
ENG. LOC.	-		
DESIGNATION	LA		
S.O.	-		
DATE	8-25-2021		
DWG. NO.	pigljm10c_03222100_00_09_M00-21000-9		
<b>Siemens Industry, Inc.</b>			
APP.	MFG. LOC.		REV.
APP.	DWG. FILE		1
Norcross, Georgia			SHEET 9 of 12

## CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
106	419	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
108	421	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
110	411	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
112	412	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
114	414	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
116/118	407	20	2	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
120	408	20	1	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
122/124/126	404	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
128/130/132	401	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
134/136/138	398	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
140/142/144	395	20	3	BLH	22,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-

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CONTR.	CONSULT		
TIE	BY <b>piqljm10c</b>	ENG. LOC.	DESIGNATION
S.O.	DATE <b>8-25-2021</b>		<b>LA</b>
Siemens Industry, Inc.		DWG. NO. <b>piqljm10c_03222100_00_09_M00-21000-10</b>	
APP.	MFG. LOC.	APP.	REV.
		DWG. FILE	SHEET <b>10</b> OF <b>12</b>
Norcross, Georgia			<b>1</b>

# TPS3 05

## Surge Protection Device (SPD) for P4 & P5 Panelboards and Distribution Switchboards

### Features:

- Mounts internal to:
  - P4 & P5 panelboards and distribution switchboards
- UL 1449 3rd Edition – 2009, cUL
- UL 1283
- Type 1 SPD (Type 2 cUL)
- Large block, individually fused, thermally protected, 50kA MOV's
- 20kA  $I_{nT}$  (most models)
- 200kA SCCR (most models)
- All UL-required OCP & safety coordination included
- UL96A Lightning Protection Master Label compliant (@20kA  $I_{nT}$ )
  
- Panelboard Features
  - Copper or aluminum bus
  - MB or MLO
  
- Switchboard Features
  - Copper or aluminum bus
  - 200% rated neutral bus for harmonic-rich applications
  - CSA, UL 891, UL 67 and NEMA PB-2
  
- Applications
  - Provides main service or downstream protection for sensitive computer and electronic loads
    - Standard redundancy use: 100kA per phase
    - Increased redundancy use: 200kA per phase
    - Maximum redundancy use: 300kA per phase
  
- SPD Specifications
  - Surge Current Rating Per Phase

Per Phase	L-N	L-G	N-G
100kA	50kA	50kA	50kA
150kA	100kA	50kA	50kA
200kA	100kA	100kA	100kA
250kA	150kA	100kA	100kA
300kA	150kA	150kA	150kA
  - 100% monitoring – every MOV is monitored, incl. N-G
  - EMI/RFI filtering: Active tracking up to -50db from 10kHz to 100MHz
  - Repetitive impulse: 5,000 hits
  - Less than 1/2 nanosecond response time
  - Relative humidity range: 1-95% non-condensing
  - Operating frequency: 47-63Hz
  - Operating temperature: -25°C (-15°F) to +60°C (140°F)



UL 1449 3rd Edition SPD

SIEMENS

- SPD Features
  - UL 1449 3rd Edition effective September 2009
  - Designed, manufactured & tested consistent with:
    - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, and C62.45-2002
    - 1992/2000 NEMA LS-1
    - NEC Article 285
    - IEC 61643, CE
  - Large block, individually fused, thermally protected, 50kA MOV's
  - 10 year warranty

- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Internal rotary disconnect switch

- Available Options
  - Surge counter

- Key Bid Specifications
  - UL 1449 3rd Edition - 2009, cUL
  - UL 1283
  - Type 1 SPD ❶
  - Audible alarm with silence switch and test button
  - Dry contacts
  - EMI/RFI filtering
  - Protection modes on L-N, L-G, L-L, N-G
  - I<sub>n</sub> Rating - 20kA
  - Short Circuit Current Rating - 200kA
  - Surge Current Rating
    - Per Phase = L-N + L-G
    - 100kA      50kA      50kA

Ordering Information

Catalog #

TPS3    05         

Voltage Code

A = 120/240V, 1Ø, 3W (Fig 1)

B = 120/240V, 3Ø, 4W (Fig 3)

**C = 120/208V, 3Ø, 4W (Fig 2)**

D = 240V, 3Ø, 3W (Fig 4)

E = 277/480V, 3Ø, 4W (Fig 2)

F = 480V, 3Ø, 3W (Fig 4)

G = 600V, 3Ø, 3W (Fig 4) ❷

K = 380/220V, 3Ø, 4W (Fig 2)

L = 600/347V, 3Ø, 4W (Fig 2)

S = 400/230V, 3Ø, 4W (Fig 2)

Surge Current (kA)

**10 = 100kA per phase**

15 = 150kA per phase

20 = 200kA per phase

25 = 250kA per phase

30 = 300kA per phase

Options

**X = Surge counter**

- Example: TPS3C0530X = SPD for a 208/120V power panel with a surge current capacity of 300kA per phase and a surge counter option

- When an option is not selected, include a zero (0) in the field

Available Accessories: Ordered Separately

- RMSIE - Remote monitor

UL 1449 3rd Edition - 2009 Test Data Summary									
Voltage Protection Rating (VPR - 6kV, 3kA)									
Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	Type	In	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	800	700	700	1200	Type 1	20kA	100kA	150
B	120/240V, 3Ø, 4W (Fig 3)	800 / 1500	700 / 1200	700	1800 / 1800	Type 1	20kA	200kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	800	700	700	1200	Type 1	20kA	200kA	150
D	240V, 3Ø, 3W (Fig 4)		1200		1500	Type 1	20kA	200kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1500	1200	1200	2500	Type 1	20kA	200kA	320
F	480V, 3Ø, 3W (Fig 4)		1800		1800	Type 1	10kA	200kA	552
G	600V, 3Ø, 3W (Fig 4)		2500		2500	Type 1	10kA	200kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1500	1200	1200	2500	Type 1	20kA	200kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	Type 1	10kA	200kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1500	1200	1200	2500	Type 1	20kA	200kA	320

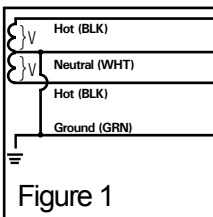


Figure 1

Split  
2 Hots, 1 Neu, 1 Gmd

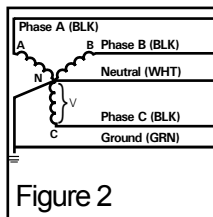


Figure 2

Wye  
3 Hots, 1 Neu, 1 Gmd

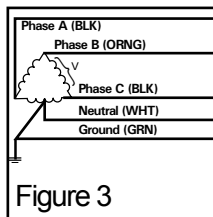


Figure 3

Hi-Leg Delta (B High)  
3 Hots, (B High),  
1 Neu, 1 Gmd

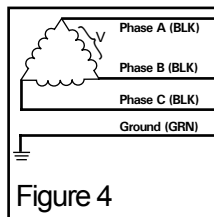


Figure 4

Delta & HRG Wye  
3 Hots, 1 Gmd

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Building Technologies Division  
5400 Triangle Parkway  
Norcross, GA 30092

888-333-3545  
info.us@siemens.com

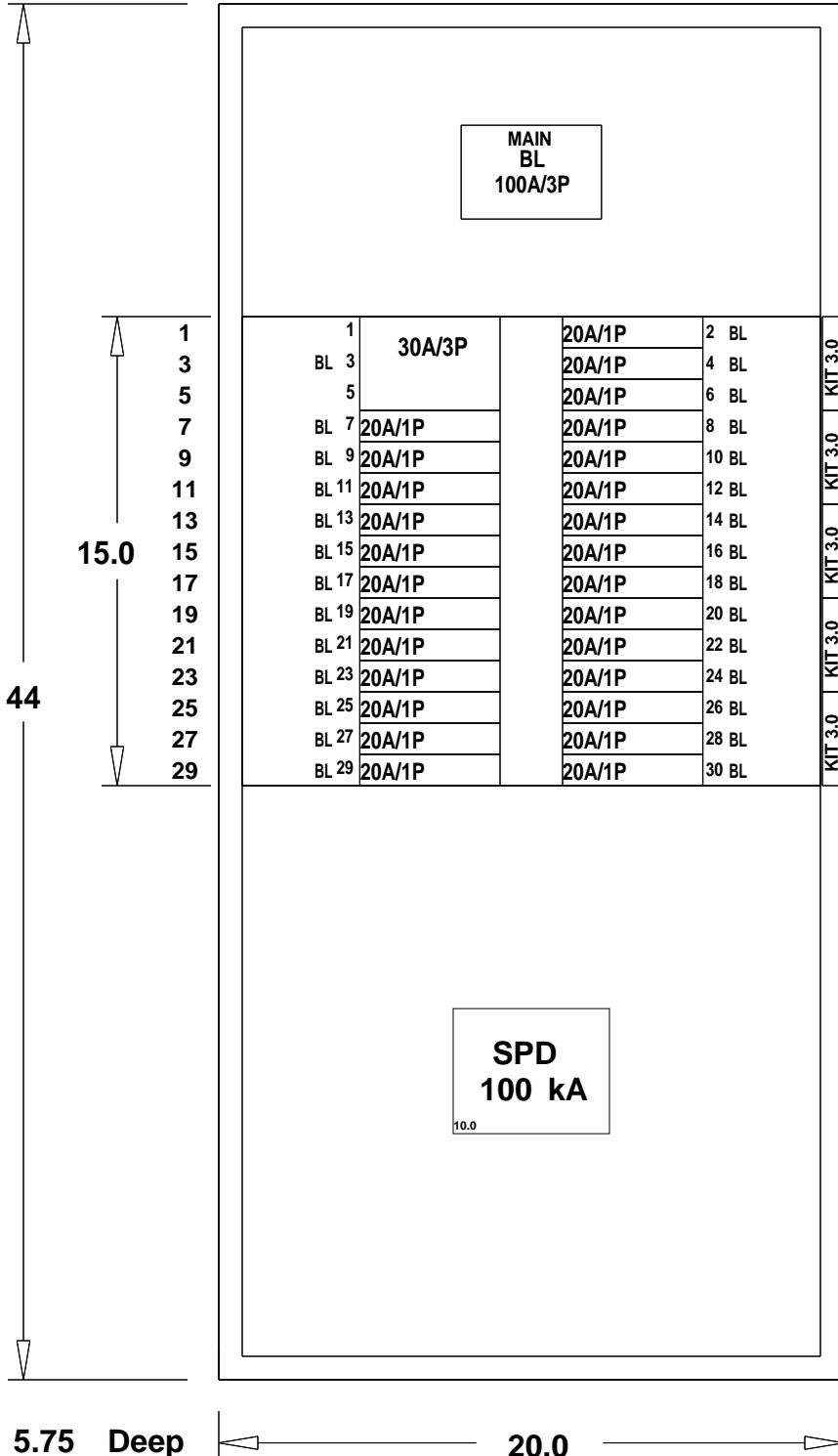
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www.usa.siemens.com/spd

Notes:

- ❶ Type 2 cUL
- ❷ Available 100kA & 150kA only

SECTION :1 OF 1  
 PANEL TYPE :P2  
 CATALOG NUMBER :P2C30BL100FTS  
 ENCLOSURE :1 Indoor  
 SYSTEM VOLTAGE :208Y/120 3Ø 4W Wye AC  
 IR RATING :10 K AIC  
 MAIN BUS :100 A  
 BUS MATERIAL :Tin Plated Copper  
 FEED :Top  
 MOUNTING :Surface  
 SE LABEL :No  
 SERIES RATED :No  
 CONDUIT AREA :N/A  
 \*INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



PANELBOARD COMPONENTS

Main :  
 1 - 100A /3P-BL MAIN BREAKER  
 1-(1)#4-#1/0 Cu / #2-#1/0 Al

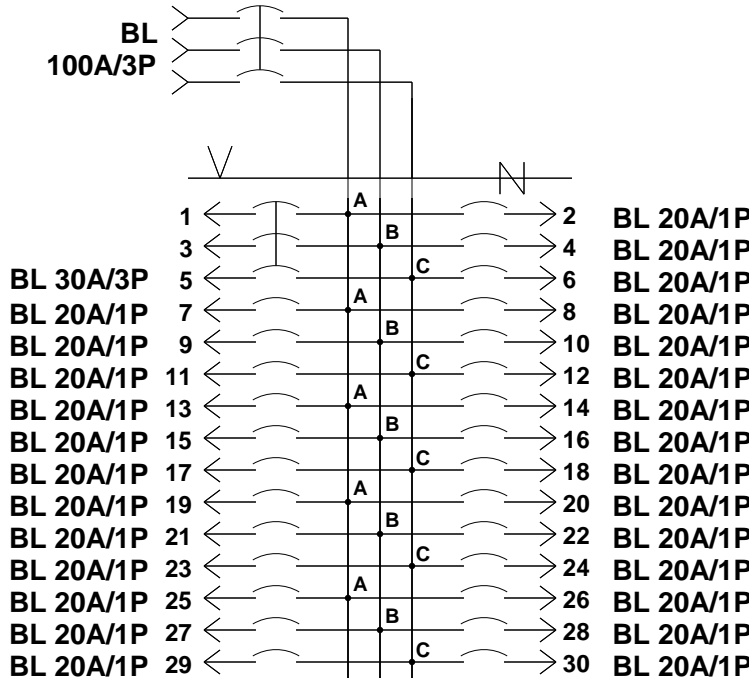
Branches :  
 1 - 30A /3P-BL  
 27 - 20A /1P-BL

Options :  
 1-Master NP Secured -Adhesive  
 1-Card Holder-Std Plastic Sleeve  
 1-Certification - UL  
 1-Std Al/Cu Gnd Connector  
 1-100kA Panelboard TPS3 SPD  
 1-SPD Surge Counter

				JOB <b>EMS</b>	
				P.O.	CUST. <b>CRAWFORD ELECTRIC SUPPLYCOMPANY INC</b>
				CONTR	CONSLT
				TIE	BY <b>pijlm10c</b>
				S.O.	DATE <b>8-25-2021</b>
				DWG. NO.	DESIGNATION <b>CA</b>
				DWG. NO. <b>03222100_00_09_M00-22000-1</b>	
1	0	pijlm10c082421	8-25-2021	<b>Siemens Industry, Inc.</b>	
NO.	REVISIONS	DRAWN BY	DATE	APP.	REV.
				APP.	1
				DWG. FILE	SHEET 1 OF 5
				Norcross, Georgia	

SECTION :1 OF 1  
 PANEL TYPE :P2  
 CATALOG NUMBER :P2C30BL100FTS  
 ENCLOSURE :1 Indoor  
 SYSTEM VOLTAGE :208Y/120 3Ø 4W Wye AC  
 IR RATING :10 K AIC  
 MAIN BUS :100 A  
 BUS MATERIAL :Tin Plated Copper  
 FEED :Top  
 MOUNTING :Surface  
 SE LABEL :No  
 SERIES RATED :No  
 CONDUIT AREA :N/A  
 \*INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW

(1)#4-#1/0 CU / #2-#1/0 AL/PH AND N



ABBREVIATIONS

'SPD' SURGE PROTECTIVE DEVICE

SPD  
 100 kA

JOB <b>EMS</b>			
P.O. -	CUST. <b>CRAWFORD ELECTRIC SUPPLYCOMPANY INC</b>		
CONTR -	CONSULT -		
TIE -	BY <b>piqljm10c</b>	ENG. LOC. -	DESIGNATION <b>CA</b>
S.O. -	DATE <b>8-25-2021</b>		
DWG. NO. <b>Siemens Industry, Inc.</b>			
Norcross, Georgia		APP. -	REV. 1
MFG. LOC. -		SHEET 2 OF 5	
DWG. FILE			



## CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
1/3/5	8	30	3	BL	10,000	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
7	13	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
9	15	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
11	17	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
13	20	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
15	22	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
17	24	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
19	27	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
21	29	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
23	31	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
25	34	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
27	36	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
29	38	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
2	9	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
4	10	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
6	11	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
8	14	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
10	16	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
12	18	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
14	21	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
16	23	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
18	25	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
20	28	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
22	30	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
24	32	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
26	35	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
28	37	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
30	39	20	1	BL	10,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-

<b>JOB</b>			
<b>EMS</b>			
P.O.		CUST.	
-		CRAWFORD ELECTRIC SUPPLYCOMPANY INC	
CONTR		CONSULT	
-		-	
TIE		BY	ENG. LOC.
-		piqljm10c	-
S.O.		DATE	DESIGNATION
-		8-25-2021	CA
DWG. NO.			
piqljm10c_03222100_00_09_M00-22000-3			
<b>Siemens Industry, Inc.</b>			
APP.	MFG. LOC.	REV.	
APP.	DWG. FILE	SHEET 3 OF 5	
Norcross, Georgia			1



**SIEMENS**

*Ingenuity for life*

# TPS3 01

## Type 1 / 2 Surge Protection Device (SPD) for P1, P2 Lighting Panelboards and P3 Power Distribution Panelboards, Motor Control Centers and Busway Systems

### Features:

- Mounts internal to:
  - P1, P2 and P3 panels
  - TIASTAR motor control centers - standard 6" bucket
  - STP series busplug on SX series busway
- Consult factory for field retrofit in P1 panels
- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
- Optional UL 1449 4th Edition Recognized Type 1, CSA 22.2 No. 269.1
- Type 1 / Type 2 SPD
- Large block, individually fused, thermally protected, 50 kA MOVs
- 20 kA  $I_n$  (most models)
- 200 kA SCCR (most models)
- Direct bus connected or can be wired to a circuit breaker (include W option)
- UL96A Lightning Protection Master Label compliant (@20kA  $I_n$ )
- All UL required OCP & safety coordination included
  - Type 1 SPDs intended for Line or Load side of Main Disconnect
  - Type 2 SPDs intended for Load side of Main Disconnect

- Designed, manufactured and tested consistent with:
  - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2007 & CSA C22.2 No. 269.1 and .2
  - 1992/2000 NEMA LS-1
  - NEC Article 285
  - IEC 61643, CE
- 10 year warranty

### SPD Specifications

#### Surge Current Rating Per Phase

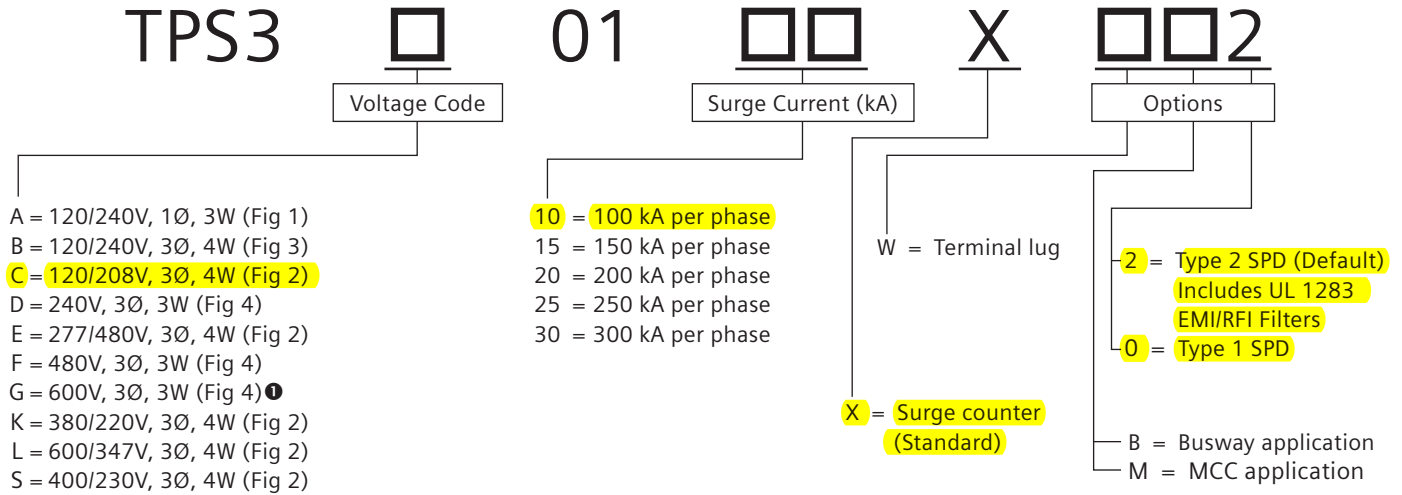
Per Phase	L-N	L-G	N-G
100 kA	50 kA	50 kA	50 kA
150 kA	100 kA	50 kA	50 kA
200 kA	100 kA	100 kA	100 kA
250 kA	150 kA	100 kA	100 kA
300 kA	150 kA	150 kA	150 kA

- 100% monitoring (Every MOV is monitored, incl. N-G)
- EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)
- Repetitive impulse: 5,000 hits
- Less than 1/2 nanosecond response time
- Relative humidity range: 1-95% non-condensing
- Operating frequency: 47-63 Hz
- Operating temperature: -25°C (-15°F) to +60°C (140°F)



- Applications
  - Provides main service entrance or downstream protection for sensitive computer and electronic loads
  - Std. redundancy use: 100kA/phase
  - Inc. redundancy use: 200kA/phase
  - Max. redundancy use: 300kA/phase
- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter

Ordering Information



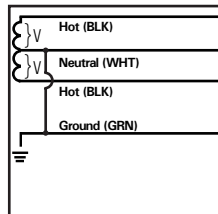
Example: TPS3C0120X002 = Type 2 SPD (Default) for a 208/120V panelboard with a surge current capacity of 200 kA per phase and a surge counter

When an option is not selected, include a zero (0) in the field

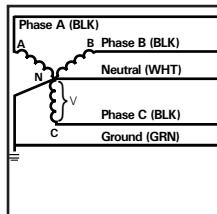
**Available Accessories:  
 Ordered Separately**  
 RMSIE - Remote monitor

UL 1449 Fourth Edition - Test Data  
 Voltage Protection Rating (VPR - 6 kV, 3 kA)

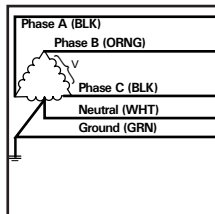
Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	I <sub>n</sub>	Type	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1200	20 kA	Type 4	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700/1200	700/1200	700	1800/1800	20 kA	Type 4	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1200	20 kA	Type 4	200 kA	150
D	240V, 3Ø, 3W (Fig 4)	—	1200	—	1200	10 kA	Type 4	200 kA	320
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	Type 4	200 kA	320
F	480V, 3Ø, 3W (Fig 4)	—	1800	—	1800	10 kA	Type 4	200 kA	550
G	600V, 3Ø, 3W (Fig 4)	—	2500	—	2500	10 kA	Type 4	200 kA	690
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	Type 4	200 kA	320
L	600/347V, 3Ø, 4W (Fig 2)	1500	1500	1500	2500	10 kA	Type 4	200 kA	420
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	Type 4	200 kA	320



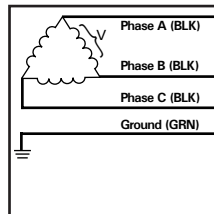
**Figure 1**  
 Split  
 2 Hots, 1 Neu, 1 Grnd



**Figure 2**  
 Wye  
 3 Hots, 1 Neu, 1 Grnd



**Figure 3**  
 Hi-Leg Delta (B High)  
 3 Hots, (B High),  
 1 Neu, 1 Grnd



**Figure 4**  
 Delta & HRG Wye  
 3 Hots, 1 Grnd

**Siemens Industry, Inc.**  
 5400 Triangle Parkway  
 Norcross, GA 30092  
 888-333-3545  
 info.us@siemens.com

Order No. RPFL-S301C-0716  
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Notes:

- ❶ Available 100 kA & 150 kA only

# SIEMENS

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Project Name: EMS\_TC  
Quote #: pigljm10c\_03222100\_00\_09\_M00

Product Family: Dry Type Transformers

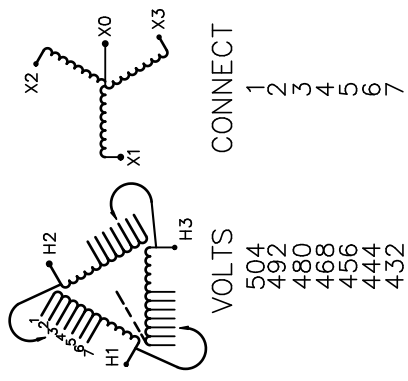
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CONTENTS:	A6X30105229	A6X30105229
	TLK34Q	TLK34Q
	A6X30104993	A6X30104993

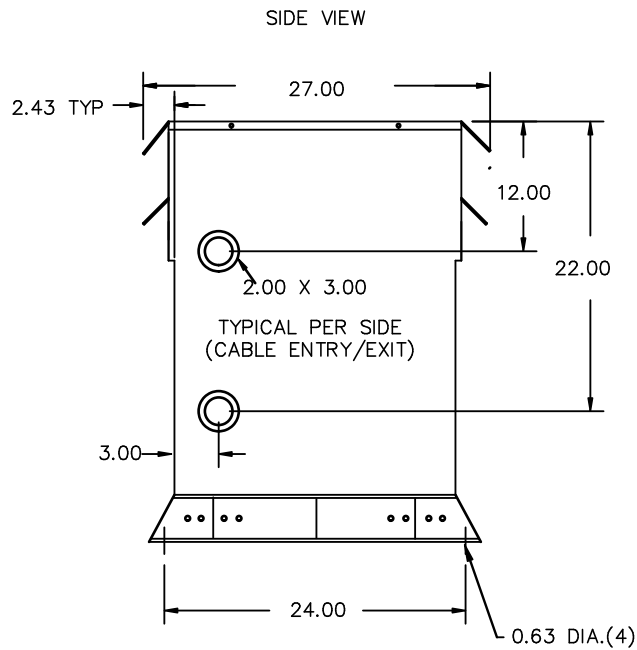
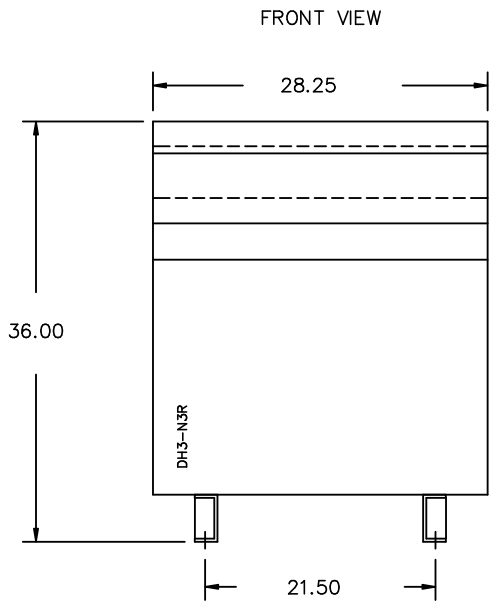
REVISION	DATE	BY	DATE	BY
		DRAWN	15/11/09	JW
		CHEK'D		
		VERIF'D		

Confidential - Property of <b>Siemens Industry, Inc.</b>	
CUSTOMER	
ORDER NO.	DWG. NO.
	3F3Y112CD16
	SH 1 OF 2

# SIEMENS

<p>CATALOG NO. 3F3Y112CD16</p> <p>SERIAL NO. SERIES H</p> <p>112.5 kVA 60 Hz 3 PHASE</p> <p>3.5 % IMP AT 170 °C</p> <p>150 °C RISE 30 °C AVG. AMBIENT</p> <p>220 °C TEMP CLASS 40 °C MAX. AMBIENT</p> <p>PRIMARY ( H1 H2 H3 ) 480V V 10 kV BIL</p> <p>SECONDARY( X0 X1 X2 X3 ) 208Y/120V V 10 kV BIL</p> <p>WINDING MATERIAL CU</p> <p>ENCLOSURE TYPE 3R WEIGHT 775 LBS</p> <p>ENERGY EFFICIENCY EXCEEDS CSA DOE 10 CFR PART 431:2016 C802.2-2012</p> <p>SPACINGS BETWEEN ANY VENTILATED ENCLOSURE PANEL AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 5 INCHES EXCEPT WHEN WALL MOUNTED USING APPROVED WALL MOUNTING KIT</p> <p>SUITABLE FOR INDOOR OR OUTDOOR LOCATIONS BEFORE HANDLING, INSTALLING AND OPERATING; SEE INSTRUCTION MANUAL</p> <p>NEMA Class ANN Dry Type Transformer Siemens Industry, Inc. Norcross, GA <small>dsu0086e</small></p>	 <p>VOLTS CONNECT</p> <table border="0"> <tr><td>504</td><td>1</td></tr> <tr><td>492</td><td>2</td></tr> <tr><td>480</td><td>3</td></tr> <tr><td>468</td><td>4</td></tr> <tr><td>456</td><td>5</td></tr> <tr><td>444</td><td>6</td></tr> <tr><td>432</td><td>7</td></tr> </table>	504	1	492	2	480	3	468	4	456	5	444	6	432	7	<p>TYPE K</p> <p>DRY TYPE TRANSFORMER</p> <p><b>UL</b> LISTED 7715 E112313</p> <p>SEISMIC QUALIFICATIONS, FLOOR MOUNT ONLY OSP-0136-10 IBC 2012/ASCE 7-10 SDS&lt;=2.0g z/h=1 p=1.5</p>
504	1															
492	2															
480	3															
468	4															
456	5															
444	6															
432	7															





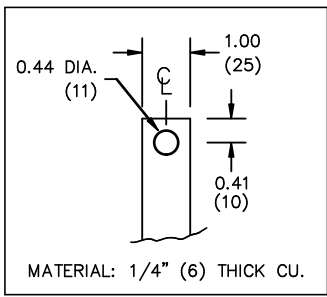
All Dimensions in inches

ENCLOSURE COLOR :ANSI 61 GREY – OUTDOOR

H.V.1. TERMINAL DETAIL

L.V.1. TERMINAL DETAIL

MECHANICAL TYPE LUGS INCLUDED  
SUITABLE FOR 250MCM-6 CU/AL  
CONDUCTORS  
1 CONDUCTOR PER PHASE



CUSTOMER NOTES:

- HV1 TERMINATED AT TOP FRONT
- LV1 TERMINATED AT BOTTOM FRONT

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**Siemens Industry, Inc.**

REVISION	DATE	BY	DATE	BY
			15/11/09	JW

CUSTOMER	
ORDER NO.	DWG. NO.
	3F3Y112CD16
	SH 2 OF 2

0.0 jwen 2016/09/29 10:04



### 3F3Y112CD16 - Three-Phase Ventilated-USA-DOE

PRODUCT DETAILS			
<b>KVA:</b>	112.50	<b>Enclosure:</b>	NEMA 3R Ventilated
<b>UPC#:</b>	804766147302	<b>Phase:</b>	Three-Phase
<b>Line Voltage</b>	480V-Delta	<b>Load Voltage</b>	208Y/120V
<b>E/S Shielded:</b>	No	<b>Windings:</b>	Copper
<b>Temp. rise:</b>	150°	<b>Hertz:</b>	60 Hz
<b>Taps:</b>	2 - 2.5% FCAN; 4 - 2.5% FCBN	<b>Approvals:</b>	UL, cUL, DOE
		<b>Wall Bracket:</b>	n/a
WEIGHT AND DIMENSIONS			
<b>Height(A):</b>	38.00"	<b>Width(B):</b>	29.00"
<b>Depth(C):</b>	29.00"	<b>Shipping Weight:</b>	885 lbs
ADDITIONAL INFORMATION			
<b>How to Buy:</b> Contact Siemens Distributor, Siemens Sales Rep or Configure in COMPAS Configuration Tool			

#### Wiring Diagram

#### T480E Wiring Diagram & Connections

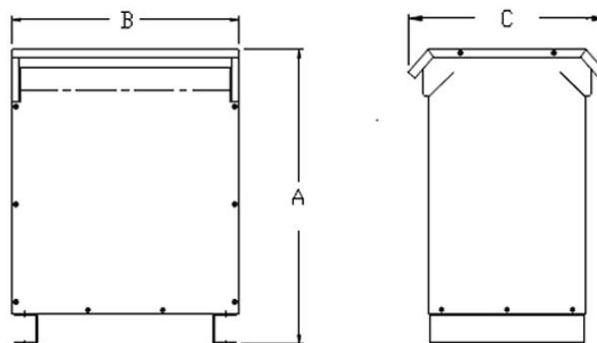
**Wiring Diagram**

Primary: 480 Volts Delta  
Secondary: 208Y/120 Volts

Connections		
Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
504	1	H1, H2, H3
492	2	H1, H2, H3
480	3	H1, H2, H3
468	4	H1, H2, H3
456	5	H1, H2, H3
444	6	H1, H2, H3
432	7	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

#### Dimensional Drawing

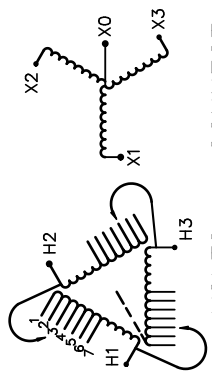


**Figure 24**



REVISION	DATE	BY	DATE	BY
		DRAWN	15/11/09	JW
		CHEK'D		
		VERIF'D		

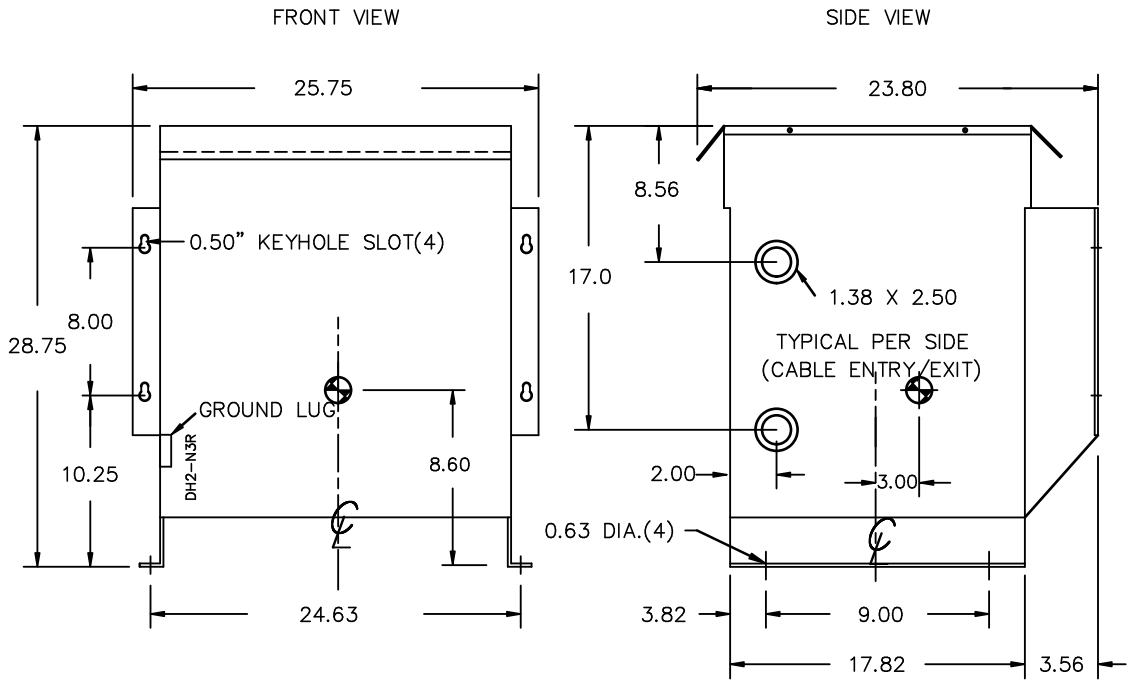
Confidential - Property of <b>Siemens Industry, Inc.</b>	
CUSTOMER	
ORDER NO.	DWG. NO.
	3F3Y030CD16
	SH 1 OF 2

# SIEMENS

<p>CATALOG NO. 3F3Y030CD16</p> <p>SERIAL NO. SERIES H</p> <p>30 kVA 60 Hz 3 PHASE</p> <p>3.9 % IMP AT 170 °C</p> <p>150 °C RISE 30 °C AVG. AMBIENT</p> <p>220 °C TEMP CLASS 40 °C MAX. AMBIENT</p> <p>PRIMARY ( H1 H2 H3 ) 480V V 10 kV BIL</p> <p>SECONDARY( X0 X1 X2 X3 ) 208Y/120V V 10 kV BIL</p> <p>WINDING MATERIAL CU</p> <p>ENCLOSURE TYPE 3R WEIGHT 370 LBS</p> <p>ENERGY EFFICIENCY EXCEEDS CSA DOE 10 CFR PART 431:2016 C802.2-2012</p> <p>SPACINGS BETWEEN ANY VENTILATED ENCLOSURE PANEL AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 3 INCHES</p>	 <p style="text-align: center;">VOLTS CONNECT</p> <p>504 492 480 468 456 444 432</p> <p style="text-align: center;">1 2 3 4 5 6 7</p>	<p style="text-align: center;">TYPE K</p> <div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;">DRY TYPE TRANSFORMER 77UL5 E112313 LR 3902</p> <p>SEISMIC QUALIFICATIONS, FLOOR MOUNT ONLY OSP-0136-10 IBC 2012/ASCE 7-10 SDS&lt;=2.0g z/h=1 p=1.5</p>
<p>SUITABLE FOR INDOOR OR OUTDOOR LOCATIONS BEFORE HANDLING, INSTALLING AND OPERATING; SEE INSTRUCTION MANUAL</p> <p>NEMA Class <b>ANN</b> Dry Type Transformer Siemens Industry, Inc. Norcross, GA <small>dsu0086e</small></p>		







All Dimensions in inches

ENCLOSURE COLOR : ANSI 61 GREY - OUTDOOR

H.V.1. TERMINAL DETAIL

L.V.1. TERMINAL DETAIL

MECHANICAL TYPE LUGS INCLUDED  
SUITABLE FOR #14-2 CU/AL  
CONDUCTORS  
1 CONDUCTOR PER PHASE

MECHANICAL TYPE LUGS INCLUDED  
SUITABLE FOR #2/0-14 CU/AL  
CONDUCTORS  
1 CONDUCTOR PER PHASE

CUSTOMER NOTES:

- HV1 TERMINATED AT TOP FRONT
- LV1 TERMINATED AT BOTTOM FRONT

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REVISION	DATE	BY	DATE	BY
			15/11/09	JW

CUSTOMER	
ORDER NO.	DWG. NO.
	3F3Y030CD16
	SH 2 OF 2

# SIEMENS

## 3F3Y030CD16 - Three-Phase Ventilated-USA-DOE

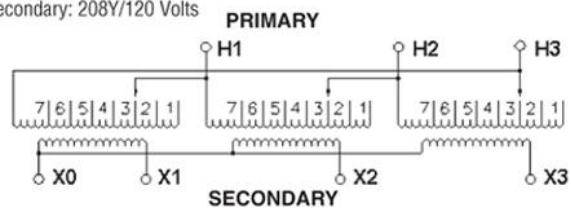
PRODUCT DETAILS			
<b>KVA:</b>	30.00	<b>Enclosure:</b>	NEMA 3R Ventilated
<b>UPC#:</b>	804766144943	<b>Phase:</b>	Three-Phase
<b>Line Voltage</b>	480V-Delta	<b>Load Voltage</b>	208Y/120V
<b>E/S Shielded:</b>	No	<b>Windings:</b>	Copper
<b>Temp. rise:</b>	150°	<b>Hertz:</b>	60 Hz
<b>Taps:</b>	2 - 2.5% FCAN; 4 - 2.5% FCBN	<b>Approvals:</b>	UL, cUL, DOE
		<b>Wall Bracket:</b>	TWB75J
WEIGHT AND DIMENSIONS			
<b>Height(A):</b>	25.00"	<b>Width(B):</b>	22.00"
<b>Depth(C):</b>	22.00"	<b>Shipping Weight:</b>	365 lbs
ADDITIONAL INFORMATION			
<b>How to Buy:</b> Contact Siemens Distributor, Siemens Sales Rep or Configure in COMPAS Configuration Tool			

### Wiring Diagram

#### T480E Wiring Diagram & Connections

##### Wiring Diagram

Primary: 480 Volts Delta  
Secondary: 208Y/120 Volts

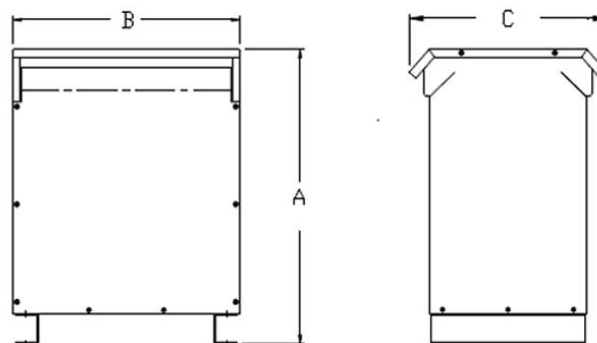


##### Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
504	1	H1, H2, H3
492	2	H1, H2, H3
480	3	H1, H2, H3
468	4	H1, H2, H3
456	5	H1, H2, H3
444	6	H1, H2, H3
432	7	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

### Dimensional Drawing

Figure 24



# SIEMENS

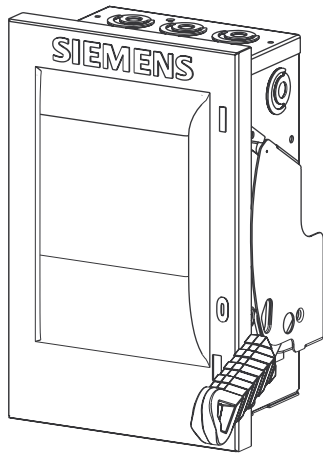
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Project Name: EMS\_TC  
Quote #: pigljm10c\_03222100\_00\_09\_M00

Product Family: Safety & Disconnect Switches

---

CONTENTS:	HNF361	HNF361
	HNF362	HNF362
	HNF361R	HNF361R



# Heavy Duty Safety Switch

## Type VBII, 30 Amp, Type 1 (Indoor)

### Standards and Ratings

- UL Listed under file #E4776
- Meets UL98 for switches and UL 50 for enclosures
- Meets NEMA Standard KS-1 for enclosed switches
- Meets NEC wire bending space requirements
- Rated 10,000 AIC as standard or 200,000 when protected by Class R, T or J fuses rated 30 amp maximum
- I<sup>2</sup>t rated (Amps<sup>2</sup> x Seconds = 50,000)
- 12X overload current rating exceeds 10X industry standard
- Suitable for use as service entrance equipment

### Features

- Quick-make and break switching action
- Double break visible blade design
- Highly visible ON/OFF indication
- Rugged installer friendly enclosure design
- Modular design allows quick and easy replacement of parts
- Front removable lugs which can easily be converted to copper body or compression type lugs
- Defeatable dual cover interlock

### General Information

Catalog Number	Volts	Description	Shipping Weight (lbs.)
HNF261	600	2 Pole, 2 Wire, Non-Fusible	12
<b>HNF361</b>	<b>600</b>	<b>3 Pole, 3 Wire, Non-Fusible</b>	12

### Horsepower Ratings <sup>1 2 3</sup> - 600 Volts

Catalog Number	3 Phase, 480V AC		3 Phase, 600V AC		600V DC
	Std	Max	Std	Max	
HNF261	—	— <sup>4</sup>	—	— <sup>4</sup>	15
HNF361	—	20 <sup>5</sup>	—	30	—

### Accessories

Catalog Number	Description
HA161234	One Normally Open and Closed Auxiliary Switches
HA261234	Two Normally Open and Closed Auxiliary Switches
HA361234	Low Voltage Auxiliary Switch
HG61234	Equipment Ground Lug Kit
HG261234	Isolated Equipment Ground Lug Kit
HN612	Neutral Kit
HLC612	Copper Lug Kit (9 lugs per kit)
HCL612	Compression Lug Neutral Barrier Kit

### Replacement Parts

Catalog Number	Description
HNB612	Non-Fusible Replacement Base
HH6123	Replacement Handle/Handle Guard
HL612	Replacement Lugs (3 lugs per kit)
HM6123	Replacement Mechanism
6	Replacement Door

<sup>1</sup> Dual horsepower ratings: Std - applies when non-time delay fuses are installed. Max - applies when time-delay fuses are installed.

<sup>2</sup> Horsepower ratings listed also apply to Design E motors through 15HP at 480V and 20HP at 600V with no derating.

<sup>3</sup> Also rated 5HP at 250V DC.

<sup>4</sup> Also rated 7 1/2 HP at 480V, 1 phase and 10HP at 600V, 1 phase.

<sup>5</sup> Also rated 10HP on 3 Phase, 240V AC systems.

<sup>6</sup> Place "DOOR" at the end of the switch catalog number.

## Product Specification Sheet HD30.1

Answers for industry.

**SIEMENS**

# Product Specification Sheet #HD30.1 (page 2 of 2)

## Mechanical Lug Wire Ranges (60/75°C, Cu/Al)

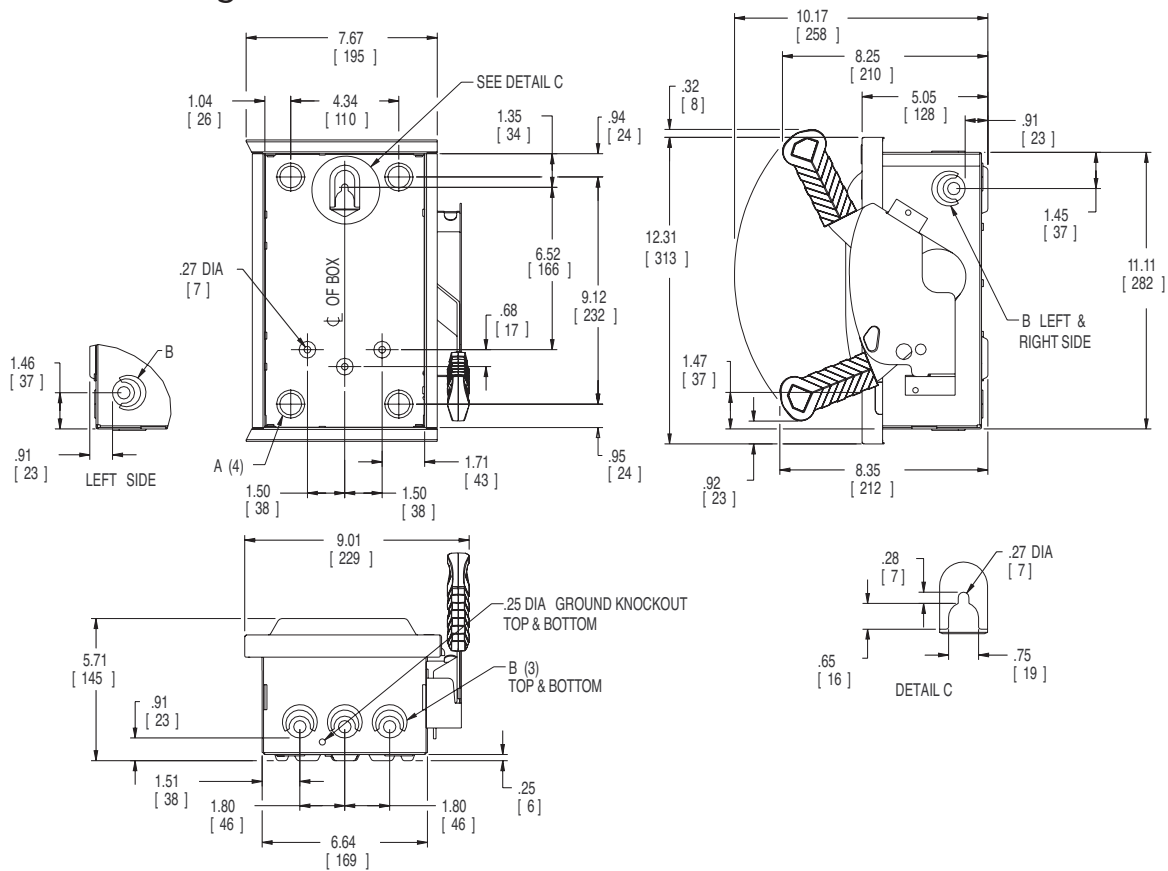
Description	Wire Range
Line, Load	#12-6 AWG (Al) or #14-6 AWG (Cu)
Neutral	#14-6 AWG (Cu)
Ground	#14-4 AWG

## Compression Lugs <sup>1</sup>

Wire Size	Burdny		Thomas-Betts		IlSCO	
	CU Only	CU/AL	CU Only	CU/AL	CU Only	CU/AL
#14-10				60096 60097		
#8	YA8C-L BOX YA8C-L1 BOX		54104 54130 61102	60101 60102	CRA-8	ACL-8 ACN-8
#6			61107			

<sup>1</sup> If compression lugs are used for the neutral, order compression lug neutral barrier kit HCL612.

## Dimension Drawing

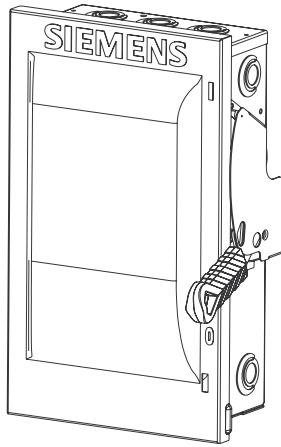


Dimensions shown in inches and millimeters ( ).  
Dimension shown accurate to ± 1/8 inch.

KNOCKOUT CODE	CONDUIT SIZE		
	A (Concentric)	.75	1.00
B (Tangential)	.50	.75	1.00

	LINE SIDE WIRE BEND	LOAD SIDE WIRE BEND
Non-Fused	3.02 (77)	4.11 (104)

Enclosure: Cold Rolled Steel  
.054 Thick (17 Gauge)  
Finish: ANSI Grey #61 Paint



# Heavy Duty Safety Switch

## Type VBII, 60 Amp & Oversized 30A, Type 1 (Indoor)

### Standards and Ratings

- UL Listed under file #E4776
- Meets UL98 for switches and UL 50 for enclosures
- Meets NEMA Standard KS-1 for enclosed switches
- Meets NEC wire bending space requirements
- Rated 10,000 AIC with Class H fuses or 200,000 AIC with Class R and J fuses
- 60A switches rated 10,000 AIC at 600Vdc with Class R or J fuses
- I<sup>2</sup>t rated (Amps<sup>2</sup> x Seconds = 200,000)
- 12X overload current rating exceeds 10X industry standard

- Suitable for use as service entrance equipment

### Features

- Quick-make and break switching action
- Double break visible blade design
- Highly visible ON/OFF indication
- Rugged installer friendly enclosure design
- Modular design allows quick and easy replacement of parts
- Front removable lugs which can easily be converted to copper body or compression type lugs
- Defeatable dual cover interlock

### General Information

Catalog Number	Amps	Volts	Description	Shipping Weight (lbs.)
HF361L	30	600	3 Pole, 3 Wire, Fusible	19
HF222N <sup>1</sup>	60	240	2 Pole, 3 Wire, Fusible	18
HF322N	60	240	3 Pole, 4 Wire, Fusible	19
HF262	60	600	2 Pole, 2 Wire, Fusible	20
HF362	60	600	3 Pole, 3 Wire, Fusible	19
HF362N	60	600	3 Pole, 4 Wire, Fusible	19
HNF262	60	600	2 Pole, 2 Wire, Non-Fusible	19
<b>HNF362</b>	<b>60</b>	<b>600</b>	<b>3 Pole, 3 Wire, Non-Fusible</b>	<b>18</b>

### Horsepower Ratings <sup>2 3</sup> - 240 Volts

Catalog Number	1 Phase, 240V AC		3 Phase, 240V AC		250V DC
	Std	Max	Std	Max	
HF222N	3	10	7½	15	10
HF322N	3	10	7½	15	10

### Horsepower Ratings <sup>2 3</sup> - 600 Volts

Catalog Number	3 Phase, 480V AC		3 Phase, 600V AC		600V DC
	Std	Max	Std	Max	
HF361L	5	15	7½	20	—
HF262 <sup>4</sup>	— <sup>5</sup>	—	—	— <sup>5</sup>	30
HF362 <sup>4</sup>	15	30	15	50	25
HF362N <sup>4</sup>	15	30	15	50	25
HNF262 <sup>4</sup>	— <sup>5</sup>	—	—	— <sup>5</sup>	30
HNF362 <sup>4 6</sup>	—	50	—	60	25

<sup>1</sup> These switches are UL Listed for application on grounded B phase systems.

<sup>2</sup> Dual horsepower ratings: Std - applies when non-time delay fuses are installed.  
Max - applies when time-delay fuses are installed.

<sup>3</sup> Horsepower ratings listed also apply to Design E motors with no derating.

<sup>4</sup> 60A switches also rated 10HP at 250V DC.

<sup>5</sup> 60A switches also rated 20HP at 480V and 25HP at 600V, 1 phase.

<sup>6</sup> 60A switches also rated 20HP on 3Ø, 240V AC systems.

## Product Specification Sheet HD60.1

Answers for industry.

**SIEMENS**

# Product Specification Sheet #HD60.1 (page 2 of 3)

## Accessories

Catalog Number	Description
HA161234	One Normally Open and Closed Auxiliary Switches
HA261234	Two Normally Open and Closed Auxiliary Switches
HA361234	Low Voltage Auxiliary Switch
HG61234	Equipment Ground Lug Kit
HG261234	Isolated Equipment Ground Lug Kit
HP62	Fuse Puller (3 per kit) (HF222N, HF322N, HF262, HF362, HF362N)
HN623	Neutral Kit
HR612 1	240 Volt Class R Fuse Clip Kit (3 fuse clips per kit) (HF222N, HF322N)
HR62	600 Volt Class R Fuse Clip Kit (3 fuse clips per kit) (HF262, HF362, HF362N)
HLC612	Copper Lug Kit (9 lugs per kit)
HCL623	Compression Lug Neutral Barrier Kit

## Replacement Parts

Catalog Number	Description
HFB22 1	Fusible 240 Volt Line Side Replacement Base (HF222N, HF322N)
HBB22 1	Fusible 240 Volt Load Side Replacement Base (HF222N, HF322N)
HFB62	Fusible 600 Volt Line Side Replacement Base (HF262, HF362, HF362N)
HBB62	Fusible 600 Volt Load Side Replacement Base (HF262, HF362, HF362N)
HNB623	Non-Fusible 600 Volt Replacement Base (HNF262, HNF362)
HH6123	Replacement Handle/Handle Guard
HL612	Replacement Lugs (3 lugs per kit)
HM6123	Replacement Mechanism
2	Replacement Door

## Mechanical Lug Wire Ranges (60/75°C, Cu/Al)

Description	Wire Range
Line, Load	#12-2 AWG (Al) or
Neutral	#14-2 AWG (Cu)
Ground	#14-4 AWG

## Compression Lugs<sup>3</sup>

Wire Size	Burdny		Thomas-Betts		IlSCO	
	CU Only	CU/AL	CU Only	CU/AL	CU Only	CU/AL
#14-10			256-30695-1352	60097		
#8	YA8C-L1 BOX	YA8CA3	54130	60102		ACL-8
	YA8C-TC14		54930BE	61102		
#6	YA6C-L BOX	YA6CA1	54105	60107	CRB-6	ACL-6
	YA6C		54905BE	61107	CRB-6L	
#4			54106	61112	CRB-4	

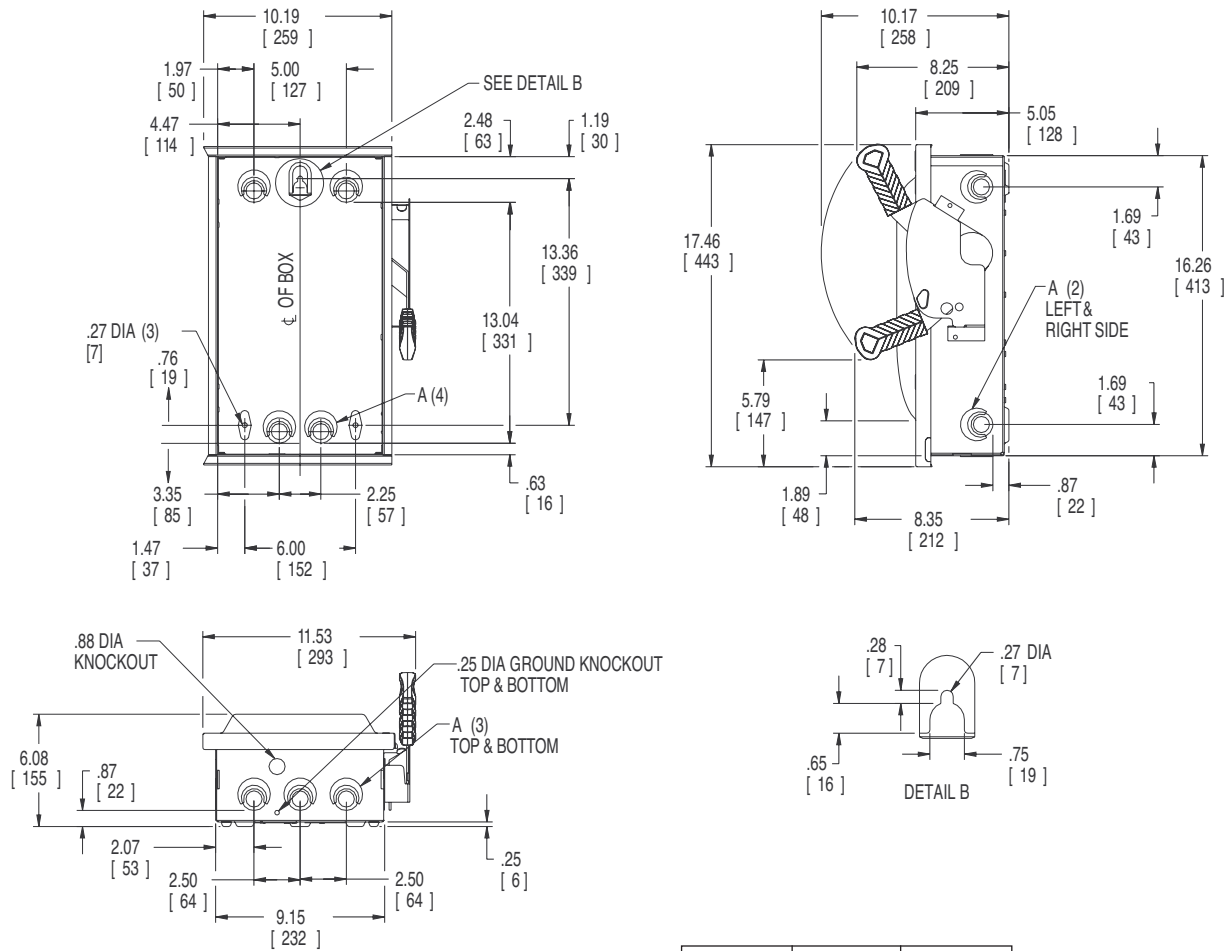
<sup>1</sup> Also 30A, 600V for HF361L.

<sup>2</sup> Place "DOOR" at the end of the switch catalog number.

<sup>3</sup> If compression lugs are used for the neutral, order compression lug neutral barrier kit HCL623.

# Product Specification Sheet #HD60.1 (page 3 of 3)

## Dimension Drawing



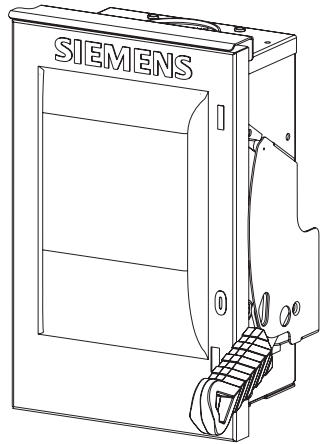
Dimensions shown in inches and millimeters ( ).  
Dimension shown accurate to  $\pm \frac{1}{8}$  inch.

KNOCKOUT CODE	CONDUIT SIZE			
	.50	.75	1.00	1.25
A (Tangential)				

	LINE SIDE WIRE BEND	LOAD SIDE WIRE BEND
240V Fused	3.54 (90)	6.07 (154)
600V Fused	3.54 (90)	3.57 (91)
Non-Fused	3.54 (90)	8.68 (220)

Enclosure: Cold Rolled Steel  
.054 Thick (17 Gauge)  
Finish: ANSI Grey #61 Paint





# Heavy Duty Safety Switch

## Type VBII, 30 Amp, Type 3R (Outdoor)

### Standards and Ratings

- UL Listed under file #E4776
- Meets UL98 for switches and UL 50 for enclosures
- Meets NEMA Standard KS-1 for enclosed switches
- Meets NEC wire bending space requirements
- Rated 10,000 AIC as standard or 200,000 AIC when protected by Class R, T or J fuses rated 30 amp maximum
- I<sup>2</sup>t rated (Amps<sup>2</sup> x Seconds = 50,000)
- 12X overload current rating exceeds 10X industry standard

- Suitable for use as service entrance equipment

### Features

- Quick-make and break switching action
- Double break visible blade design
- Highly visible ON/OFF indication
- Rugged installer friendly enclosure design
- Modular design allows quick and easy replacement of parts
- Front removable lugs which can easily be converted to copper body or compression type lugs
- Defeatable dual cover interlock

### General Information

Catalog Number	Volts	Description	Shipping Weight (lbs.)
HNF261R	600	2 Pole, 2 Wire, Non-Fusible	13
HNF361R	600	3 Pole, 3 Wire, Non-Fusible	13

### Horsepower Ratings<sup>1 2 3</sup> - 600 Volts

Catalog Number	3 Phase, 480V AC		3 Phase, 600V AC		600V DC
	Std	Max	Std	Max	
HNF261R	—	— <sup>4</sup>	—	— <sup>4</sup>	15
HNF361R	—	20 <sup>5</sup>	—	30	—

### Accessories

Catalog Number	Description
HA161234	One Normally Open and Closed Auxiliary Switches
HA261234	Two Normally Open and Closed Auxiliary Switches
HA361234	Low Voltage Auxiliary Switch
HG61234	Equipment Ground Lug Kit
HG261234	Isolated Equipment Ground Lug Kit
HN612	Neutral Kit
HLC612	Copper Lug Kit (9 lugs per kit)
HCL612	Compression Lug Neutral Barrier Kit
HS075	0.75" Type "HS" Outdoor Hub
HS100	1.00" Type "HS" Outdoor Hub

### Mechanical Lug Wire Ranges (60/75°C, Cu/Al)

Description	Wire Range
Line, Load	#12-6 AWG (Al) or
Neutral	#14-6 AWG (Cu)
Ground	#14-4 AWG

<sup>1</sup> Dual horsepower ratings: Std - applies when non-time delay fuses are installed. Max applies when time-delay fuses are installed.

<sup>2</sup> Horsepower ratings listed also apply to Design E motors through 15HP at 480V and 20HP at 600V with no derating.

<sup>3</sup> Also rated 5HP at 250V DC.

<sup>4</sup> Also rated 7 1/2 HP at 480V, 1 phase and 10HP at 600V, 1 phase.

<sup>5</sup> Also rated 10HP on 3 Phase, 240V AC systems.

## Product Specification Sheet HD30.6

Answers for industry.

**SIEMENS**

# Product Specification Sheet #HD30.6 (page 2 of 2)

## Accessories

Catalog Number	Description
HA161234	One Normally Open and Closed Auxiliary Switches
HA261234	Two Normally Open and Closed Auxiliary Switches
HA361234	Low Voltage Auxiliary Switch
HG61234	Equipment Ground Lug Kit
HG261234	Isolated Equipment Ground Lug Kit
HN612	Neutral Kit
HLC612	Copper Lug Kit (9 lugs per kit)
HCL612	Compression Lug Neutral Barrier Kit
HS075	0.75" Type "HS" Outdoor Hub
HS100	1.00" Type "HS" Outdoor Hub

## Replacement Parts

Catalog Number	Description
HNB612	Non-Fusible Replacement Base
HH6123	Replacement Handle/Handle Guard
HL612	Replacement Lugs (3 lugs per kit)
HM6123	Replacement Mechanism
1	Replacement Door

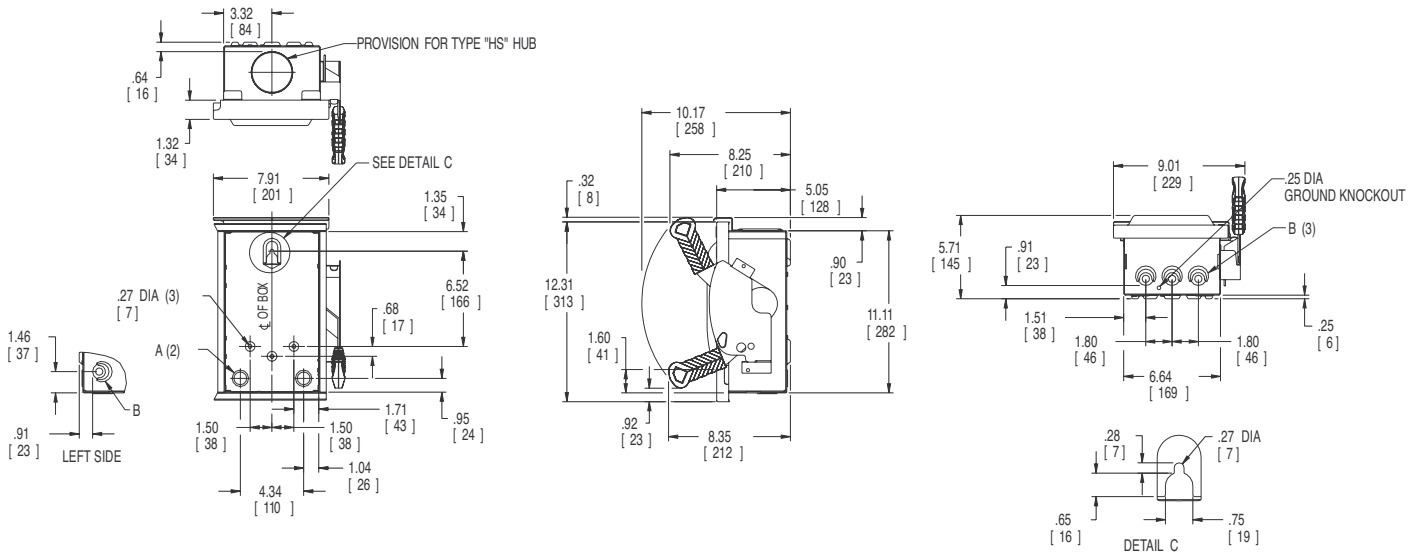
## Compression Lugs <sup>2</sup>

Wire Size	Burndy		Thomas-Betts		IlSCO	
	CU Only	CU/AL	CU Only	CU/AL	CU Only	CU/AL
#14-10				60096		
				60097		
#8	YA8C-L BOX		54104	60101	CRA-8	ACL-8
	YA8C-L1 BOX		54130	60102		ACN-8
				61102		
#6				61107		

1 Place "DOOR" at the end of the switch catalog number.

2 If compression lugs are used for the neutral, order compression lug neutral barrier kit HCL612.

## Dimension Drawing



Dimensions shown in inches and millimeters ( ).  
Dimension shown accurate to ± 1/16 inch.

KNOCKOUT CODE	CONDUIT SIZE		
	.75	1.00	1.00
A (Concentric)	.75	1.00	1.00
B (Tangential)	.50	.75	1.00

	LINE SIDE WIRE BEND	LOAD SIDE WIRE BEND
	Non-Fused	3.02 (77)

Enclosure: Galvanized Steel  
.054 Thick (17 Gauge)  
Finish: ANSI Grey #61 Paint

## SECTION 06 40 23

## INTERIOR ARCHITECTURAL WOODWORK

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data, Shop Drawings and Samples showing the full range of colors, textures, and patterns available for each type of finish.
- B. Quality Standard: Architectural Woodwork Institute's "Architectural Woodwork Quality Standards."
- C. Forest Certification: Provide woodwork produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."
- D. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is completed, and HVAC system is operating.

## PART 2 - PRODUCTS

## 2.1 MATERIALS

- A. Hardboard: AHA A135.4.
- B. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde.
- C. Softwood Plywood: DOC PS 1.
- D. Hardwood Plywood and Face Veneers: HPVA HP-1, made with adhesive containing no urea formaldehyde. **Marine Grade Plywood shall be utilized under countertops of all finishes.**
- E. Thermoset Decorative Panels: Comply with LMA SAT - 1.
- F. High-Pressure Decorative Laminate: NEMA LD 3.
  - 1. Products:
    - a. Formica, High Pressure Laminate, [www.formica.com](http://www.formica.com).
    - b. Wilsonart, High Pressure Laminate, [www.wilsonart.com](http://www.wilsonart.com).
    - c. Arborite, High Pressure Laminate, [www.arborite.com](http://www.arborite.com).
    - d. Laminart, High Pressure Laminate, [www.laminart.com](http://www.laminart.com).

- e. Or approved equal.
- G. Solid-Surfacing Material: Homogeneous solid sheets of filled acrylic resin complying with ISSFA-2. Composition of acrylic resins, fire-retardant mineral fillers, and proprietary coloring agents. Through-the-body color for full thickness of sheet material. 1/2 inch nominal material thickness.
- 1. Basis-of-Design: Subject to compliance with requirements, provide Wilsonart – Solid Surface – Kimberlite – 9215CE or a comparable product by one of the following. Architect to make final selection from manufacture’s full range of designated series.
    - a. Wilsonart LLC, Solid Surface, 2400 Wilson Place, Temple, TX 76503, 800-433-3222, [www.wilsonart.com](http://www.wilsonart.com).
    - b. Corian (Dupont), Solid Surface, Chestnut Run Plaza – 974 Centre Road, Wilmington, DE 19805, 800-426-7426, [www.corian.com](http://www.corian.com).
    - c. Avonite (Trinseo / Aristech Surfaces LLC), 800-354-9858, [www.aristechsfaces.com](http://www.aristechsfaces.com)
    - d. Meganite Inc, 800-836-1118, [www.meganite.com](http://www.meganite.com).
    - e. Formica, 800-367-6422, [www.formica.com](http://www.formica.com)
    - f. LX Hausys, [www.lxhausys.com](http://www.lxhausys.com)
    - g. Or approved equal.

## 2.2 CABINET HARDWARE AND ACCESSORY MATERIALS

- A. Butt Hinges: 2-3/4-inch, 5-knuckle steel hinges made from 0.095-inch thick metal, and as follows:
  - 1. Semiconcealed Hinges for Flush Doors: BHMA A156.9, B01361.
  - 2. Semiconcealed Hinges for Overlay Doors: BHMA A156.9, B01521.
- B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 135 degrees of opening.
- C. Wire Pulls: Back mounted, solid metal, 5 inches long, 2-1/2 inches deep, and 5/16 inch in diameter.
- D. Catches: Magnetic catches, BHMA A156.9, B03141.
- E. Adjustable Shelf Standards and Supports: BHMA A156.9, B04102; with shelf brackets, B04112.
- F. Drawer Slides: BHMA A156.9, B05091.
  - 1. Box Drawer Slides: Grade 1HD-100.
  - 2. File Drawer Slides: Grade 1HD-200.
  - 3. Pencil Drawer Slides: Grade 1.
  - 4. Keyboard Slides: Grade 1HD-100.
  - 5. Trash Bin Slides: Grade 1HD-200.
- G. Drawer Locks: BHMA A156.11, E07041.

- H. Grommets for Cable Passage through Countertops: 2 inch OD, molded-plastic grommets and matching plastic caps with slot for wire passage.
- I. Exposed Hardware Finishes: Comply with BHMA A156.18 for BHMA code number indicated.
  - 1. Finish: Satin Stainless Steel: BHMA 630.
- J. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated lumber, kiln dried to 15 percent moisture content.

## 2.3 INTERIOR WOODWORK

- A. Complete fabrication to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.
- C. Flush Wood Paneling for Plastic Laminate Finish
  - 1. Wood: Medium-density fiberboard
  - 2. Plastic laminate: Premium grade
- D. Plastic-Laminate Cabinets: Premium grade.
  - 1. AWI Type of Cabinet Construction: Full overlay on frameless cabinetry
  - 2. WIC Construction Style: Style A, Frameless.
  - 3. WIC Door and Drawer Front Style: Flush.
  - 4. Laminate Cladding: Horizontal surfaces other than tops, HGS; postformed surfaces, HGP; vertical surfaces, HGS; Edges, HGS; semiexposed surfaces, VGS.
  - 5. Drawer Sides and Backs: Standard grade, made from domestic rotary cut white birch.
  - 6. Drawer Bottoms: Standard grade, made from domestic rotary cut white birch.
- E. Plastic-Laminate Countertops: Standard grade.
  - 1. Laminate Grade: HGS for flat countertops, HGP for post-formed countertops.
  - 2. Grain Direction: Parallel to cabinet fronts.
  - 3. Edge Treatment: Same as laminate cladding on horizontal surfaces.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas.
- B. Install woodwork to comply with referenced quality standard for grade specified.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches.
- D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

- E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Fasten with countersunk concealed fasteners and blind nailing. Use fine finishing nails for exposed nailing, countersunk and filled flush with woodwork.
- F. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than 36 inches long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members.
- G. Anchor paneling to supports with concealed panel-hanger clips and by blind nailing on back-up strips, splined-connection strips, and similar associated trim and framing.
- H. Cabinets: Install so doors and drawers are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.
  - 1. Fasten wall cabinets through back, near top and bottom, at ends and not more than 16 inches o.c. with No. 10 wafer-head sheet metal screws through metal backing or metal framing behind wall finish.
- I. Anchor countertops securely to base units. Seal space between backsplash and wall.

END OF SECTION 06 40 23