



Borough of Chambersburg

*A full service municipality in Franklin County
celebrating over 65 years of consumer owned natural gas service
over 120 years of community electric and a
regional wastewater, water, and municipal solid waste utility*

October 6, 2020

ADDENDUM NO. 2

To the Contract Documents for
Sitework at the Commerce Street
Electric Substation

For

The Borough of Chambersburg, PA

In accordance with the requirements of the “Instructions to Bidders”, this Addendum shall be attached to and become a part of the Contract Documents for the above referenced project.

1. Revised Fence Drawing Set:

Attached Revised Preston Waller & Associates, Inc. Fence drawings. The Scale Information was removed from drawing 2800-3751BL.

2. Tatman Structure Drawings:

Attached Tatman Associates, Inc. structure drawings. These are to provide additional reference to the existing Structure and Structural Element Installation Bid-Only Drawing Set. The Tatman drawings include elements that are not within the contractor’s scope of responsibility, and as such should only be used to enhance the Bidder’s understanding of structure attributes.

END OF ADDENDUM NO. 2



Borough of Chambersburg

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NOTICE OF RECEIPT

I have received the Addendum No. 2 for the **Sitework at the Commerce Street Electric Substation.**

Company

Contact Person

Date Received

Mail to: Jennifer Sprenkle
Borough of Chambersburg
100 South Second Street
Chambersburg, PA 17201

or Fax: 717-261-3240

email: jcappuccio@chambersburgpa.gov

Commerce Solar Substation

Fence FOR-BID-ONLY Drawing Set

Drawing No.

Description

2800-3751BL
2800-3752BL

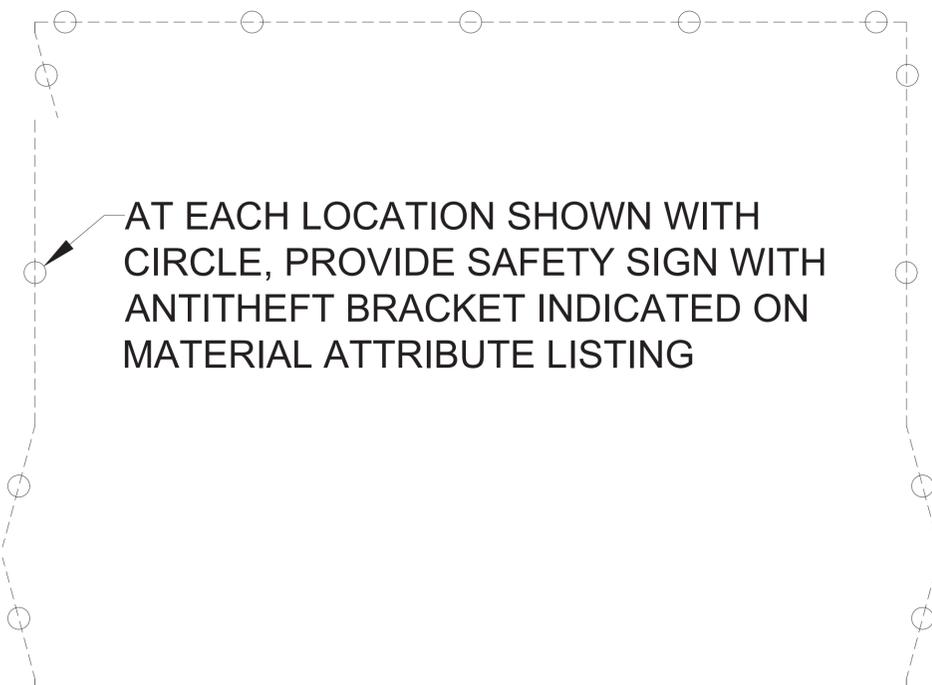
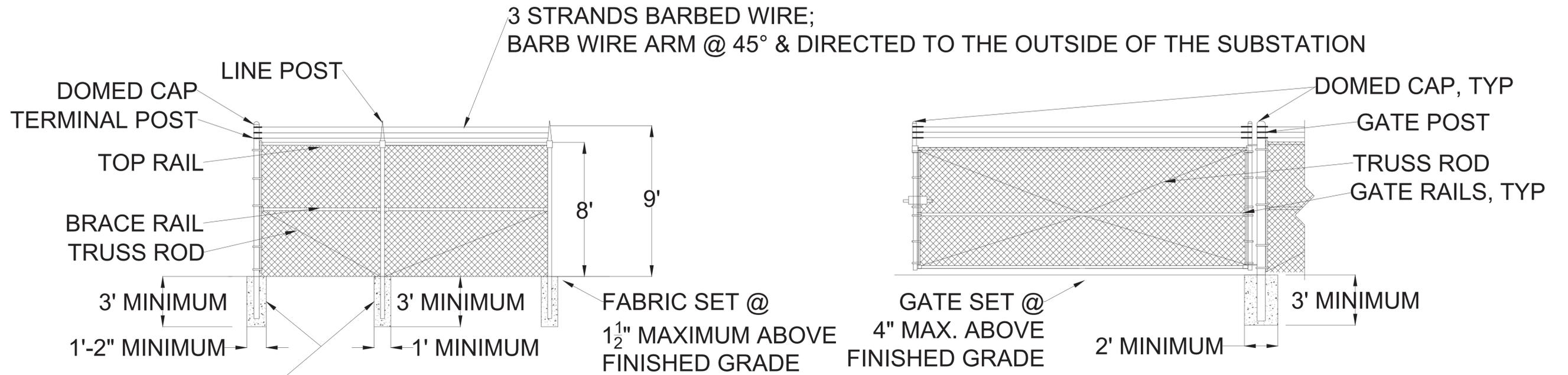
SUBSTATION FENCE PLAN VIEW
SUBSTATION FENCE DETAILS

S. Jay Waller
Digitally signed by S. Jay Waller
Date: 2020.10.05 14:58:01 -0400



Preston Waller & Associates, Inc.
Process & Engineering Consultants

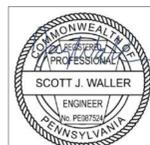
TYPICAL FENCE DETAIL



MATERIAL ATTRIBUTE REQUIREMENTS	
DESCRIPTION	MINIMUM REQUIRED ATTRIBUTES
Line Post	2 7/8" HF40
Terminal Post	4" HF40
Gate Post	6" HF40
Top Rail/Brace Rail	1 5/8" HF40
Gate Rail	2" HF40
Bottom Tension Wire	7 GA GALV
Truss Rod	3/8" DIA GALV
Fabric	9 GA X 2" DIAMOND LINK
Warning sign	Uticom Systems Inc. #U1014W-G-U2200 or equal
Sign Antitamper Hdwe	Uticom Systems Inc. #U1902S-SS or equal

S. Jay Waller
Digitally signed by S. Jay Waller
 Date: 2020.10.05 14:58:21 -0400

DRAWING IS FOR BIDDING PURPOSES ONLY
 NOT BE USED FOR ASSEMBLY OR CONSTRUCTION



Preston Waller & Associates, Inc.
 Process & Engineering Consultants

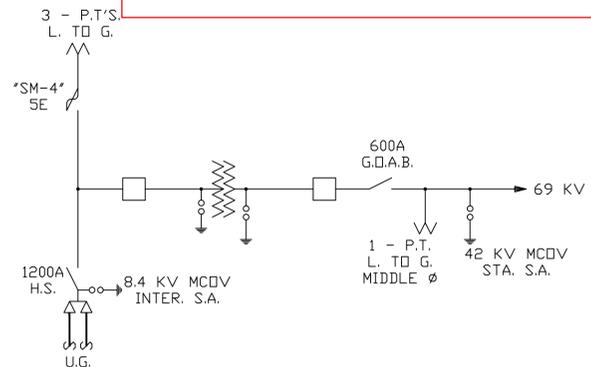
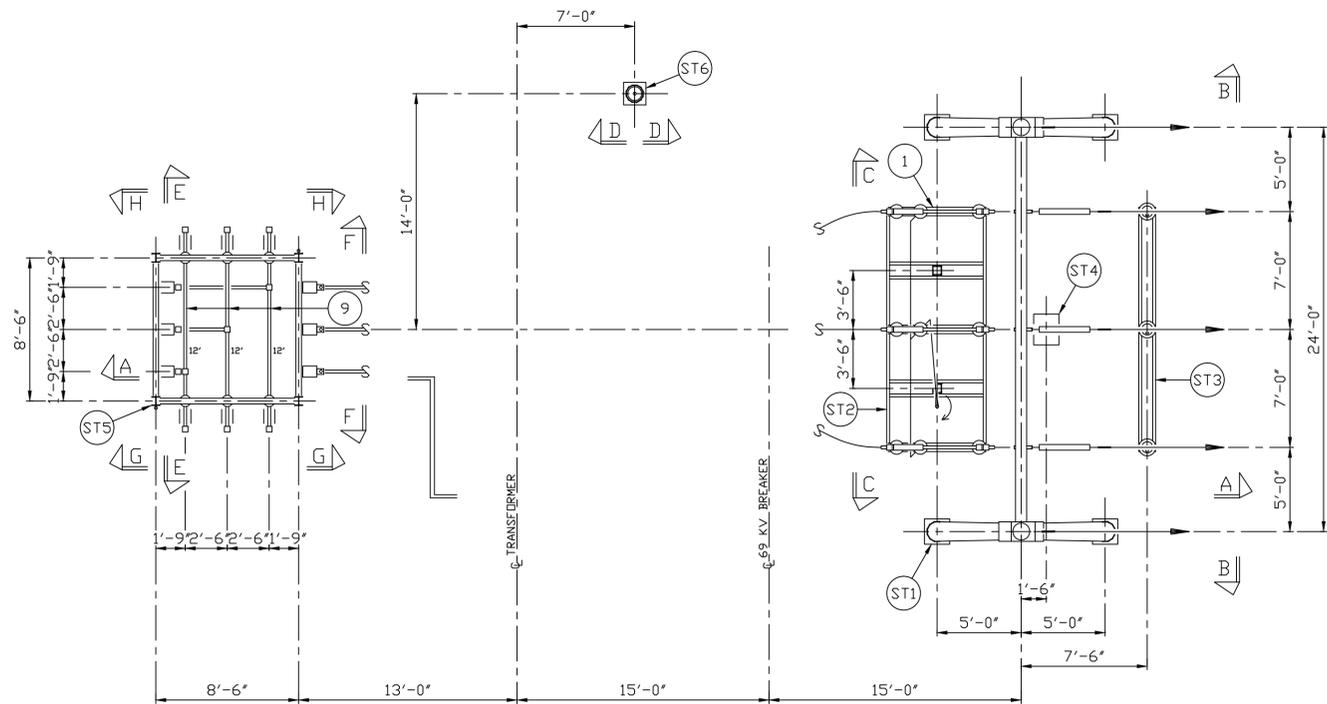
NO.	DATE	REVISION	BY	SCALE
1				NTS
2				
3				
4				
5				
6				
7				
8				
9				

DATE	08-14-20
CHECKED BY	SJW
DRAWN BY	SJW

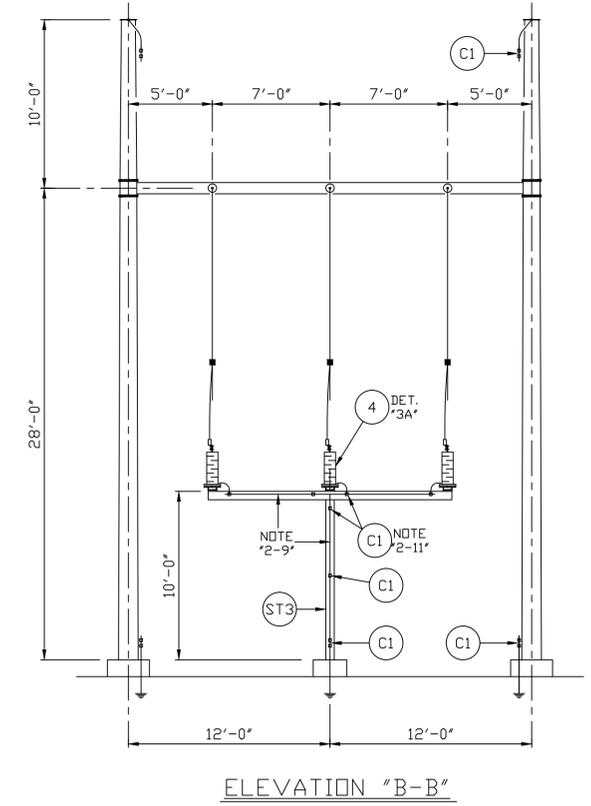
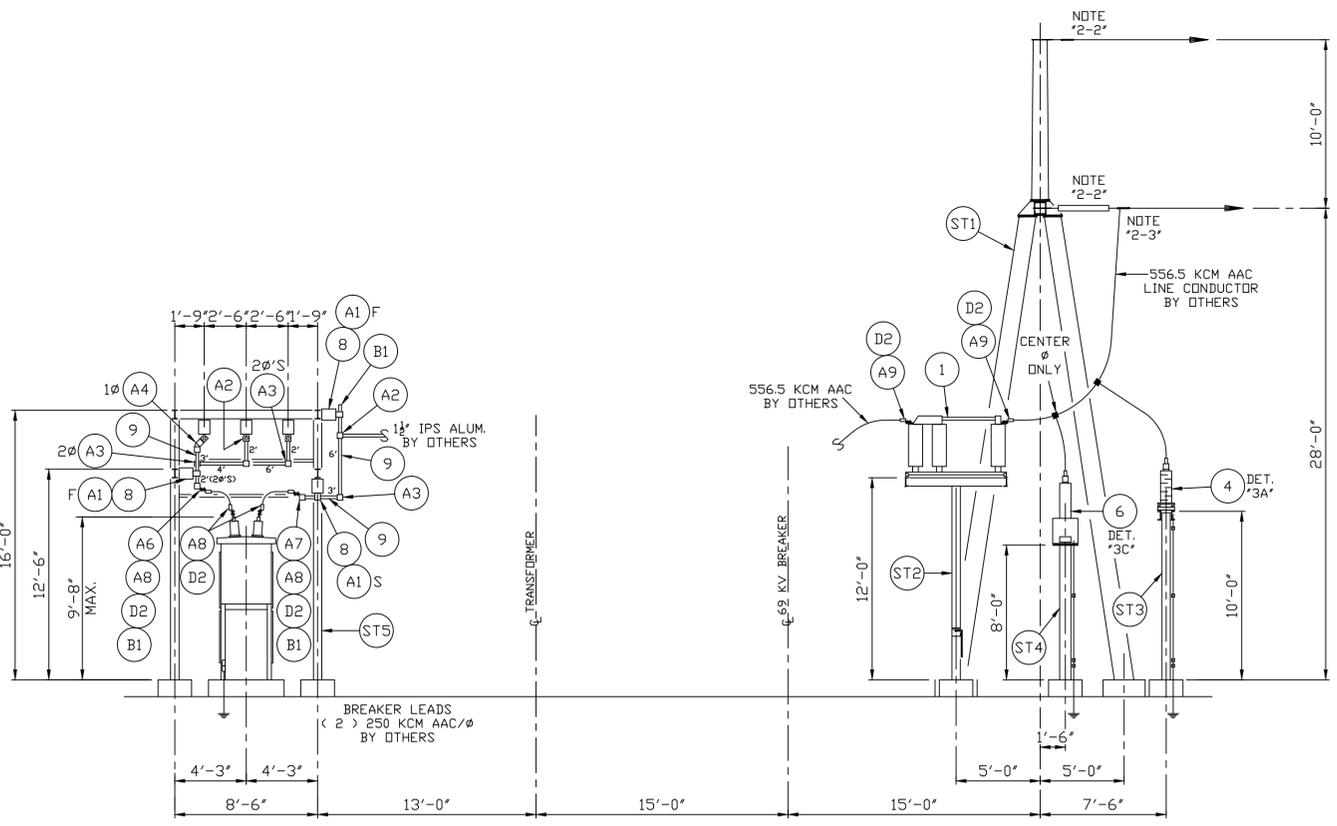
BOROUGH OF CHAMBERSBURG
 100 S. SECOND STREET
 CHAMBERSBURG, PENNSYLVANIA
 COMMERCE SOLAR SUBSTATION
 FOR INSTALLATION BID ONLY
 FENCE DETAILS

DRAWING NUMBER
 2800-3752BL

PRELIMINARY/ NOT FOR CONSTRUCTION



- GENERAL NOTES:**
- 2-1 STRUCTURE AND BUS DESIGNED FOR THE FOLLOWING:
2000# TENSION PER 69 KV PHASE WIRE, ±15° FROM A STRAIGHT PULL-OFF IN THE HORIZONTAL PLANE.
1000# TENSION PER 69 KV STATIC WIRE, ±15° FROM A STRAIGHT PULL-OFF IN THE HORIZONTAL PLANE.
90 M.P.H WIND (3 SECOND GUST) AND NO ICE
40 M.P.H. WIND AND 3/4" ICE
 - 2-2 69 KV INCOMING LINE AND STATIC DEADENDS BY OTHERS.
 - 2-3 ROUTE CONDUCTOR TO MAINTAIN REQUIRED CLEARANCES.
 - 2-4 CONNECTORS THUS:
BOLTED TYPE FOR ALUMINUM PIPE
BOLTED TYPE FOR ALUMINUM OR ACSR CABLE
BOLTED TYPE FOR COPPER (ABOVE GRADE)
 - 2-5 BUS CLAMPS AND TERMINALS THUS:
F = FIXED
S = SLIP
 - 2-6 USE ELECTRICAL JOINT COMPOUND, BY INSTALLATION CONTRACTOR, FOR ALL ALUMINUM CONNECTIONS.
 - 2-7 PHASING SHOWN SCHEMATICALLY, FIELD VERIFY
 - 2-8 SEE DRAWING E220-18, SHEET 3, FOR DETAILS *3A*, *3B*, ETC.
 - 2-9 4/0 STR. COPPER, BY OTHERS, RUNS FROM CLAMP AT BASE OF COLUMN, UP STRUCTURE TO GROUND SURGE ARRESTERS, POTENTIAL TRANSFORMERS AND PIPE MASTS.
 - 2-10 4/0 STRANDED COPPER, BY OTHERS, RUNS FROM CLAMP AT BASE OF COLUMN, UP STRUCTURE TO GROUND SWITCH VERTICAL SHAFT GROUND STRAP, THEN RUNS BACK DOWN COLUMN THRU CLAMP AT BASE OF COLUMN.
 - 2-11 USE CLAMP, ITEM (C1), TO SUPPORT GROUND WIRE ON STRUCTURE, SPACE EVERY 3'-0" TO 5'-0".
 - 2-12 ITEM (9), 1 1/2" IPS ALUMINUM, BUS CUTTING SCHEDULE:



12'	6'	2'	3 THUS
6'	4'	3'	1 THUS
3'	2'	2'	1 THUS
			1 SPARE
			6 TOTAL

\5125\E220-18-2R1

ELECTRICAL CLEARANCES					SUSPENSION INSULATORS				
VOLTAGE KV	KV BIL	LINE TO LINE MINIMUM	LINE TO GROUND MIN.	RECOM.D.	VOLTAGE KV	TYPE	DIA.	ANSI NO.	NO. PER STRING
69	350	31'	25'	29'					
15	110	12'	7'	10'					

THE INFORMATION ON THIS DWG. IS PROPRIETARY, AND IS NOT TO BE USED, REPRODUCED, OR COPIED WITHOUT THE WRITTEN CONSENT OF TATMAN ASSOCIATES, INC.

1	REV. PER APPROVAL DWG.	L.G.	J.B.	10-20
REV.	DESCRIPTION	MADE BY	CKD. BY	DATE
				SCALE 3/16" = 1'-0"

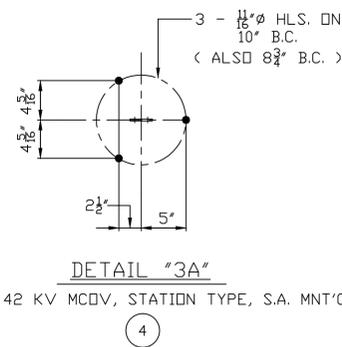
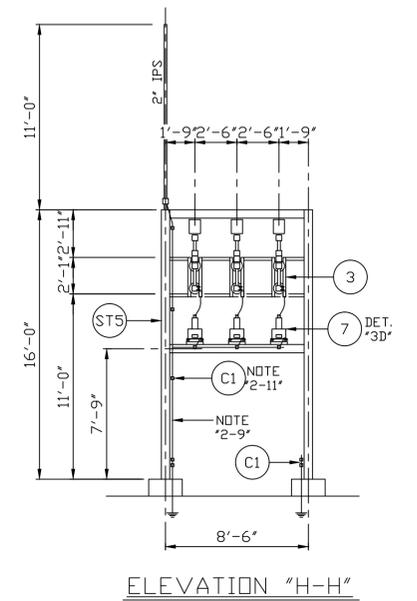
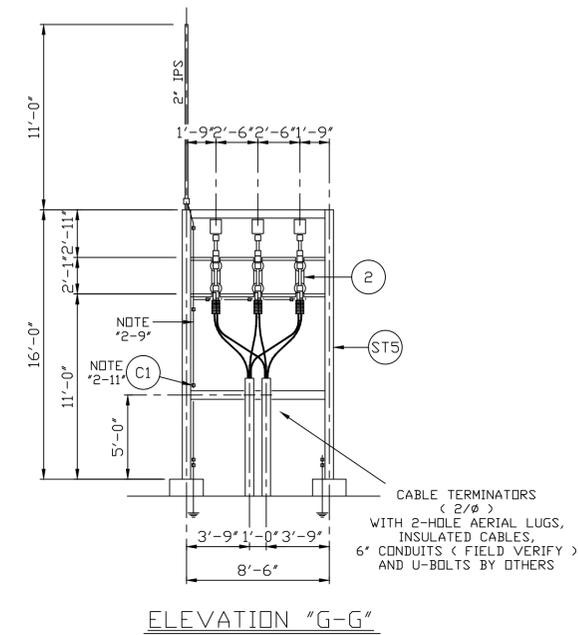
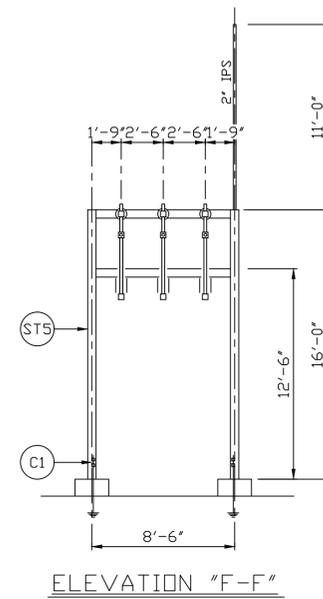
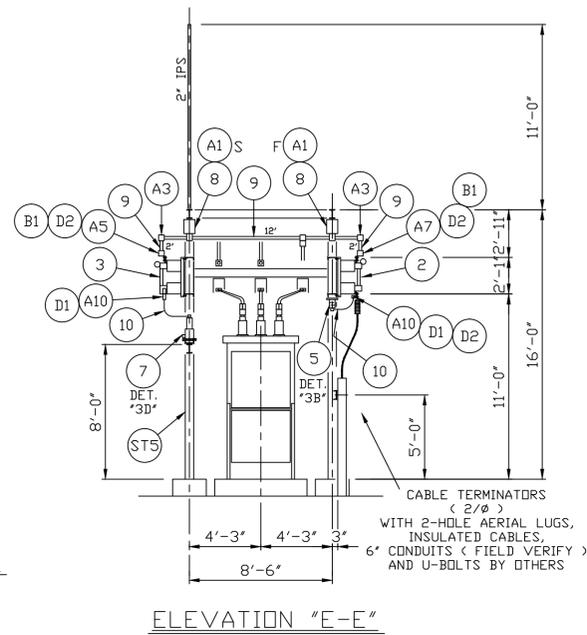
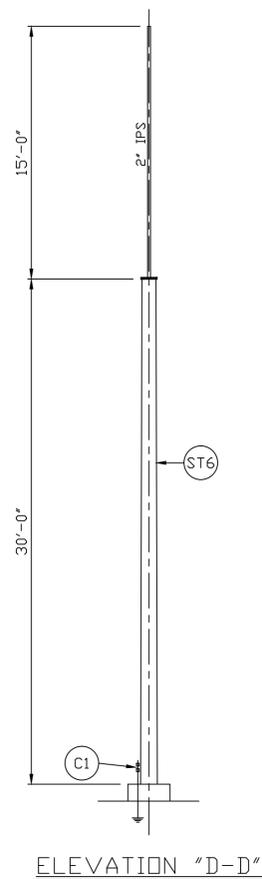
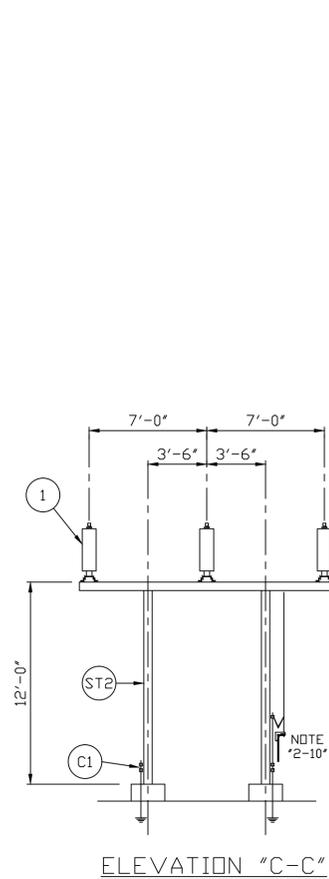
**BOROUGH OF CHAMBERSBURG
CHAMBERSBURG, PENNSYLVANIA
COMMERCE SOLAR SUBSTATION
69/15 KV**

**TATMAN ASSOCIATES, INC.
SUBSTATION PACKAGER**

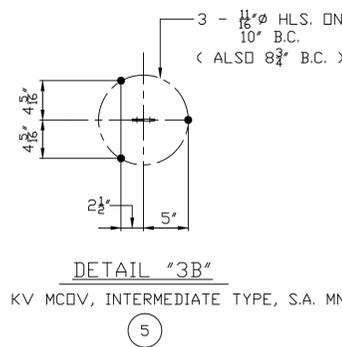
DWG. NO. E220-18
SHEET NO. 2, R1

DWN. BY L.G. 9-20
TR. BY
CKD. BY J.B. 9-20
APP. BY
29015 SOLDON ROAD, SOLDON, OHIO 44139
PHONE: 800-521-2062 FAX: 440-248-0649

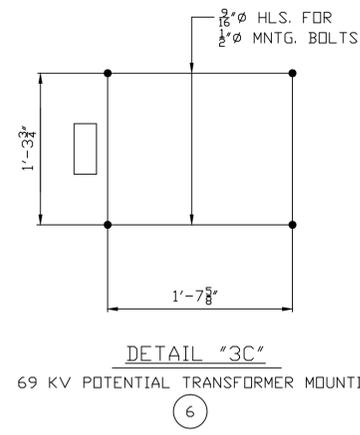
PRELIMINARY/ NOT FOR CONSTRUCTION



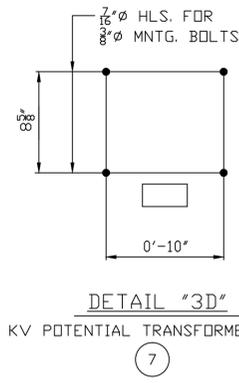
54 KV, 42 KV MCOV, STATION TYPE, S.A. MNT'G.



10 KV, 8.4 KV MCOV, INTERMEDIATE TYPE, S.A. MNT'G.



69 KV POTENTIAL TRANSFORMER MOUNTING



15 KV POTENTIAL TRANSFORMER MOUNTING

NOTES:

3-1 SEE DRAWING E220-18, SHEET 2, FOR ONE LINE DIAGRAM AND GENERAL NOTES.

BOROUGH OF CHAMBERSBURG
CHAMBERSBURG, PENNSYLVANIA
COMMERCE SOLAR SUBSTATION
69/15 KV

\\5125\E220-18-3R1

ELECTRICAL CLEARANCES					SUSPENSION INSULATORS				
VOLTAGE KV	KV BIL	LINE TO LINE MINIMUM	LINE TO GROUND MIN.	RECOM'D.	VOLTAGE KV	TYPE	DIA.	ANST NO.	NO. PER STRING
69	350	31"	25"	29"					
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REV.	DESCRIPTION	MADE BY	CKD BY	DATE
				SCALE 3/16" = 1'-0"

TATMAN ASSOCIATES, INC.
SUBSTATION PACKAGER
29015 SOLON ROAD, SOLON, OHIO 44139
PHONE: 800-521-2062 FAX: 440-248-0649

DWG. NO. E220-18
SHEET 3, R1