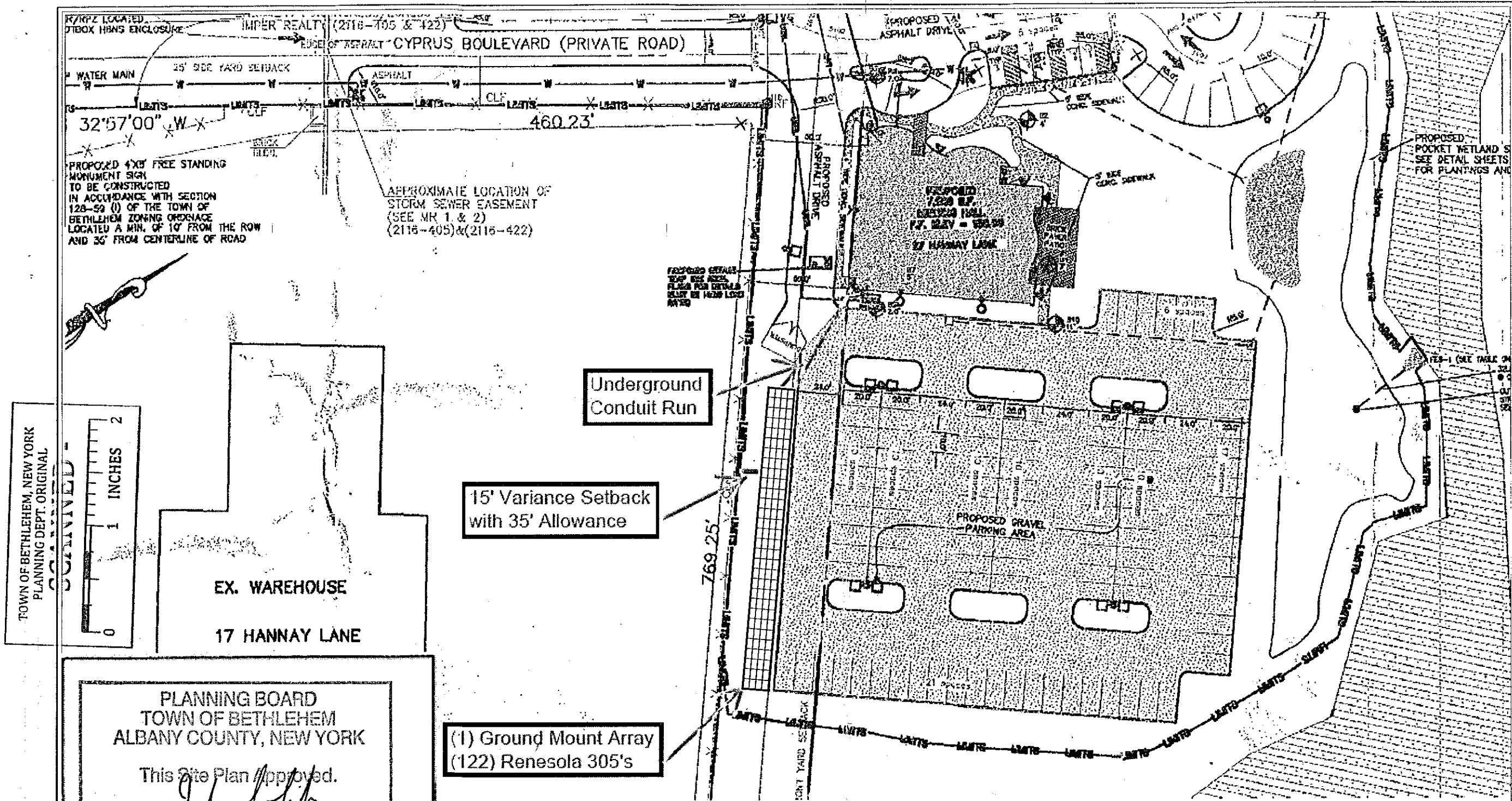
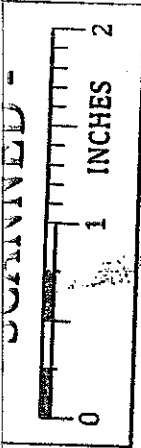




TOWN OF BETHLEHEM, NEW YORK
PLANNING DEPT. ORIGINAL



PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK

This Site Plan Approved.

John F. Kelly
Title *Chairman*

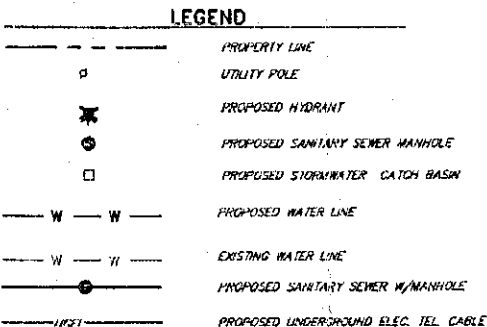
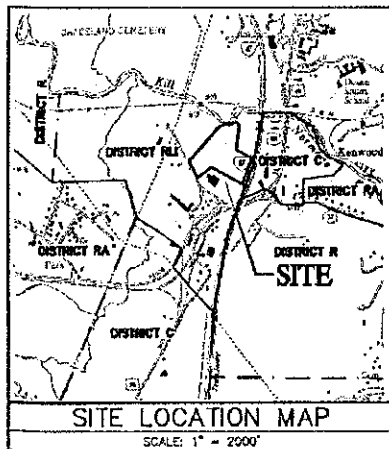
Date *12/12/2014*

SPA 140 A1

FILE

TOWN OF BETHLEHEM APPROVAL

(1) Ground Mount Array
(122) Renesola 305's



SITE STATISTICS

PARCEL AREA = 17.36 ACRES
EXISTING ZONE - RLI

BUILDING SETBACKS

FRONT - 50'
SIDE - 25'
REAR - 50'

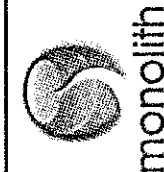
OWNER & APPLICANT

THE CYPRUS SHRINERS
67 CORNING PLACE
ALBANY, NY 12207

ADDRESS

27 HANNAY LANE
GLENMONT, NY 12077

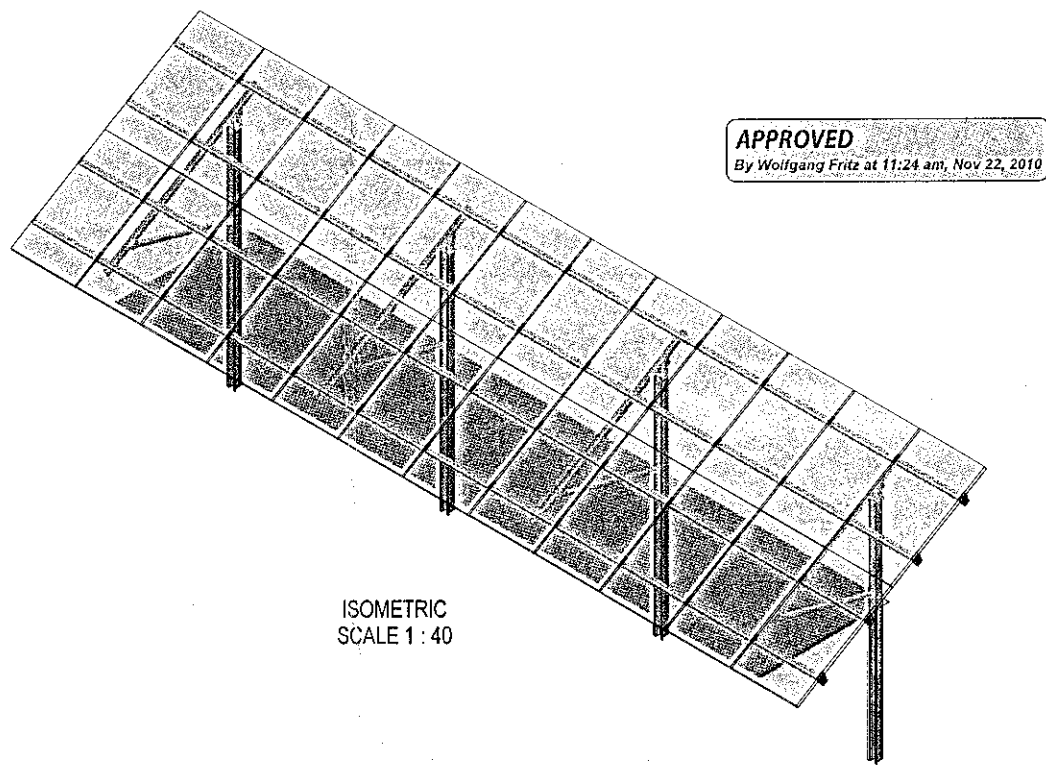
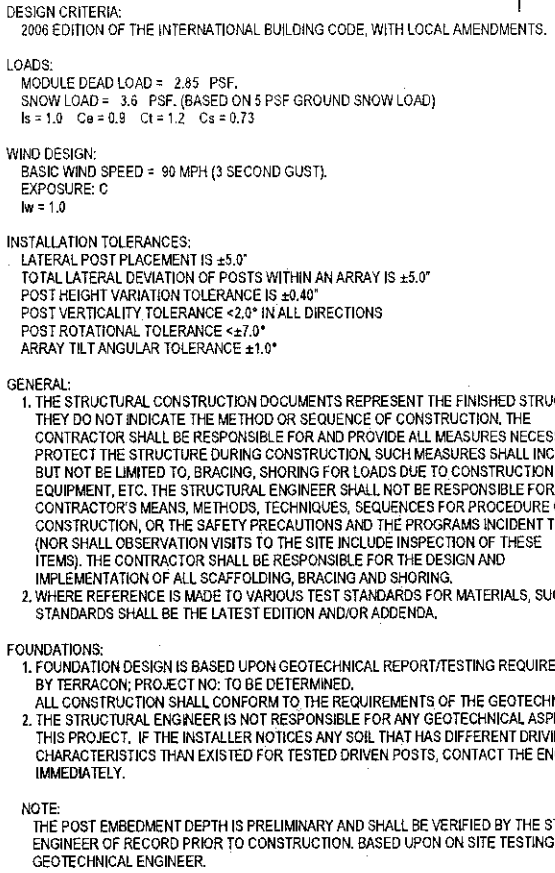
Monolith Solar Associates
444 Washington Street
Rensselaer, NY 12144
518-444-2044



Cyprus Shriners, Site Plan
Amendment - 27 Hannay Lane

COUNTY OF ALBANY
TOWN OF BETHLEHEM
STATE OF NEW YORK
DATE: October 28, 2014 - Variance # AV - 1413
SCALE: 1" = 2000'
SHEET 1 OF 1

Based on site plan for
Cyprus Shriners, prepared
by Brett L. Steenburgh, PE,
PLLC, dated March 8, 2007,
and revised 1/20/2008.

[illegible]

Client:	 Solar Mounting Systems SCHLETTER Inc.	Ground Mount FS 2V x 12 30°	Project Site:
Cyprus Shriners		Racking Structure Dimensions and Specifications	Cyprus Shriners Site Plan Amendment 27 Hannay Lane
Telephone: +1 (520) 228-2706 3741 E. Fournier Place Fax: +1 (520) 228-2893 Tucson, AZ 85718 Email: mail@schletter.us www.schletter.us		ISSUED BY: SCHLETTER INC. PROPRIETARY AND CONFIDENTIAL	

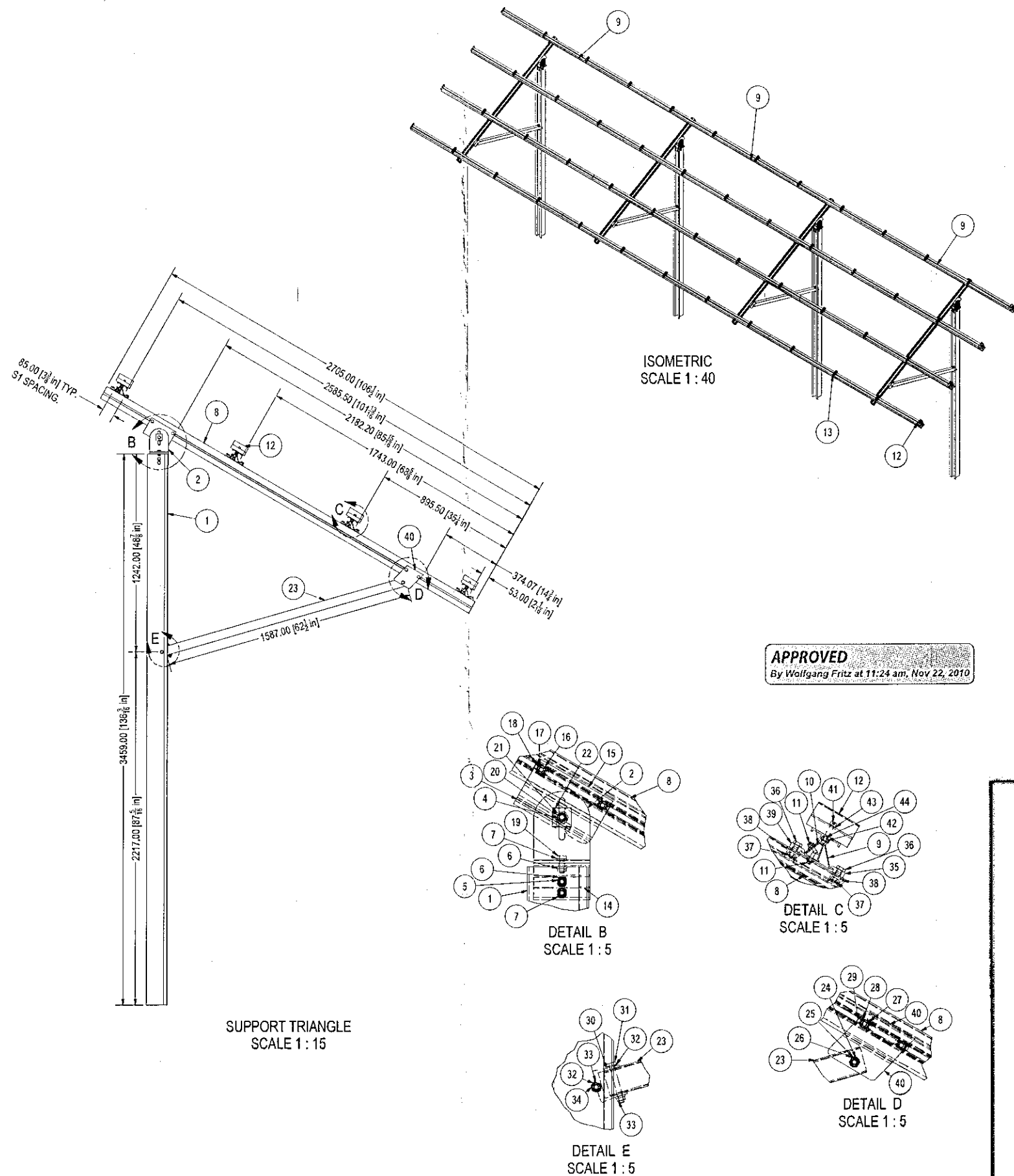
PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
By direction of the Chairman.
These drawings are hereby approved.
See sheet(s) 1, 2, 3
for date and signature.

TOWN OF BETHLEHEM, NEW YORK
PLANNING DEPT. ORIGINAL
- **SCANNED** -

0 1 2 INCHES

TOWN OF BETHLEHEM APPROVAL

PARTS LIST		DESCRIPTION
1	4	440301 Foundation Post FG7
2	4	445005 Head Assembly
3	4	445092 Wedge
4	4	445090 Spacer 81 mm
5	8	451090 (Head Assembly HardWare) DIN 931-1 - M10 x 90 Hex-Head Bolt (Head Assembly HardWare)
6	16	460110 (Head Assembly HardWare) DIN 6923 - M10 Flange Nut (Head Assembly HardWare)
7	16	461110 (Head Assembly HardWare) DIN 125-A - 10.5 Washer (Head Assembly HardWare)
8	4	440343-P4 Binder T3
9	12	440131 S1 Purlin Inside
10	8	440131-VE S1 Purlin Connector
11	32	462150 (Purlin Connector Hardware) Eject Self Tapping 6x25 Screw, Washer, Gasket (Purlin Connector Hardware)
12	8	400450-M 50mm End Clamp
13	44	400230-M35 Middle Clamp
14	4	445010 Base Console
15	4	445030 Connector Shoe
16	16	451025 (Head Assembly HardWare) DIN 933 - M10 x 25 Hex-Head Bolt (Head Assembly HardWare)
17	16	460310 (Head Assembly HardWare) DIN 557 - M10 Square Nut (Head Assembly HardWare)
18	16	430025 (Head Assembly HardWare) M10 - Klick Component (Head Assembly HardWare)
19	8	451030 (Head Assembly HardWare) DIN 933 - M10 x 30 Hex-Head Bolt (Head Assembly HardWare)
20	4	451212 (Head Assembly HardWare) DIN 931-1 - M12 x 120 Hex-Head Bolt (Head Assembly HardWare)
21	4	460112 (Head Assembly HardWare) DIN 6923 - M12 Flange Nut (Head Assembly HardWare)
22	8	445091 (Head Assembly HardWare) No Slide Plate (Head Assembly HardWare)
23	4	445060 Strut FS
24	4	451080 (Strut Console HardWare) DIN 931-1 - M10 x 80 Hex-Head Bolt (Strut Console HardWare)
25	4	461110 (Strut Console HardWare) DIN 125-A - 10.5 Washer (Strut Console HardWare)
26	4	460110 (Strut Console HardWare) DIN 6923 - M10 Flange Nut (Strut Console HardWare)
27	16	451025 (Strut Console HardWare) DIN 933 - M10 x 25 Hex-Head Bolt (Strut Console HardWare)
28	16	460310 (Strut Console HardWare) DIN 557 - M10 Square Nut (Strut Console HardWare)
29	16	430025 (Strut Console HardWare) M10 - Klick Component (Strut Console HardWare)
30	4	445050 Strut Shoe
31	4	451080 (Strut Shoe HardWare) DIN 931-1 - M10 x 80 Hex-Head Bolt (Strut Shoe HardWare)
32	8	461110 (Strut Shoe HardWare) DIN 125-A - 10.5 Washer (Strut Shoe HardWare)
33	8	460110 (Strut Shoe HardWare) DIN 6923 - M10 Flange Nut (Strut Shoe HardWare)
34	4	451090 (Strut Shoe HardWare) DIN 931-1 - M10 x 90 Hex-Head Bolt (Strut Shoe HardWare)
35	16	440158-40 Mounting Clamp
36	32	451025 (Mounting Clamp HardWare) DIN 933 - M10 x 25 Hex-Head Bolt (Mounting Clamp HardWare)
37	32	460310 (Mounting Clamp HardWare) DIN 557 - M10 Square Nut (Mounting Clamp HardWare)
38	32	430025 (Mounting Clamp HardWare) M10 - Klick Component (Mounting Clamp HardWare)
39	16	440157-40 Mounting Clamp
40	4	445040 Strut Console
41	52	453835 (Clamp HardWare) DIN 912 - M8 x 35 Socket Head Screw (Clamp HardWare)
42	52	460308 (Clamp HardWare) DIN 557 - M8 Square Nut (Clamp HardWare)
43	52	461408 (Clamp HardWare) S8 Serrated Washer (Clamp HardWare)
44	52	430024 (Clamp HardWare) M8 - Klick Component (Clamp HardWare)



DESIGN CRITERIA:
2006 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH LOCAL AMENDMENTS.

LOADS:
MODULE DEAD LOAD = 2.85 PSF.
SNOW LOAD = 3.8 PSF, (BASED ON 5 PSF GROUND SNOW LOAD)
 $I_s = 1.0$ $C_e = 0.9$ $C_t = 1.2$ $C_s = 0.73$

WIND DESIGN:
BASIC WIND SPEED = 90 MPH (3 SECOND GUST).
EXPOSURE: C
 $I_w = 1.0$

INSTALLATION TOLERANCES:
LATERAL POST PLACEMENT IS $\pm 5.0"$
TOTAL LATERAL DEVIATION OF POSTS WITHIN AN ARRAY IS $\pm 5.0"$
POST HEIGHT VARIATION TOLERANCE IS $\pm 0.40"$
POST VERTICALITY TOLERANCE $< 2.0"$ IN ALL DIRECTIONS
POST ROTATIONAL TOLERANCE $< 7.0"$
ARRAY TILT ANGULAR TOLERANCE $\pm 1.0"$

GENERAL:
1. THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERE TO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING.
2. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

FOUNDATIONS:
1. FOUNDATION DESIGN IS BASED UPON GEOTECHNICAL REPORT/TESTING REQUIREMENTS BY TERRACON; PROJECT NO. TO BE DETERMINED.
ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
2. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT. IF THE INSTALLER NOTICES ANY SOIL THAT HAS DIFFERENT DRIVING CHARACTERISTICS THAN EXISTED FOR TESTED DRIVEN POSTS, CONTACT THE ENGINEER IMMEDIATELY.

NOTE:
THE POST EMBEDMENT DEPTH IS PRELIMINARY AND SHALL BE VERIFIED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION, BASED UPON ON SITE TESTING BY THE GEOTECHNICAL ENGINEER.

ALUMINUM:
1. ALL ALUMINUM SHALL CONFORM WITH THE LATEST ALUMINUM DESIGN HANDBOOK.
ALL ALUMINUM SECTIONS SHALL BE 6105-T5.
2. ALL BOLTS SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.

TORQUE:
M8 BOLT TORQUE IS 18 N-M (13 FT-LBS)
M10 BOLT TORQUE IS 41 N-M (30 FT-LBS)
M12 BOLT TORQUE IS 70 N-M (52 FT-LBS)

MODULE SIZE:
RACKING SYSTEM DESIGNED FOR MODULE SIZE: 1685mm x 993mm x 50mm
VERTICAL MODULE GAP: 23mm
HORIZONTAL MODULE GAP: 5mm

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
By direction of the Chairman.
These drawings are hereby approved.
See sheet(s) 1 of 1
for date and signature.

TOWN OF BETHLEHEM, NEW YORK
PLANNING DEPT. ORIGINAL
- SCANNED -
0 1 2 INCHES

NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
0	BB 11.18.10				

Cyprus Shriners



Ground Mount FS 2V x 12 30°
Racking Structure
Details and Parts List

Cyprus Shriners
Site Plan Amendment
27 Hannay Lane

TOWN OF BETHLEHEM APPROVAL