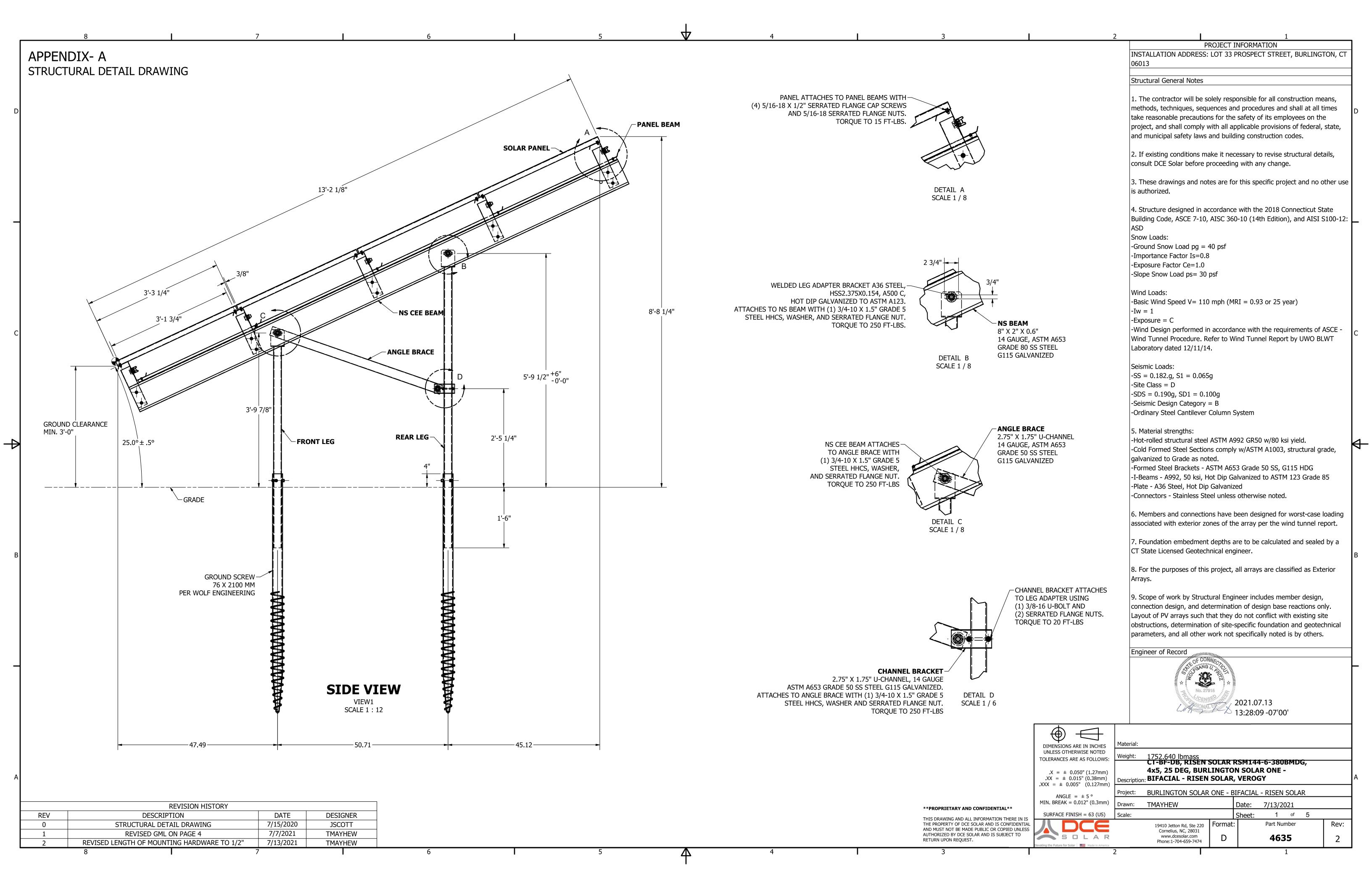
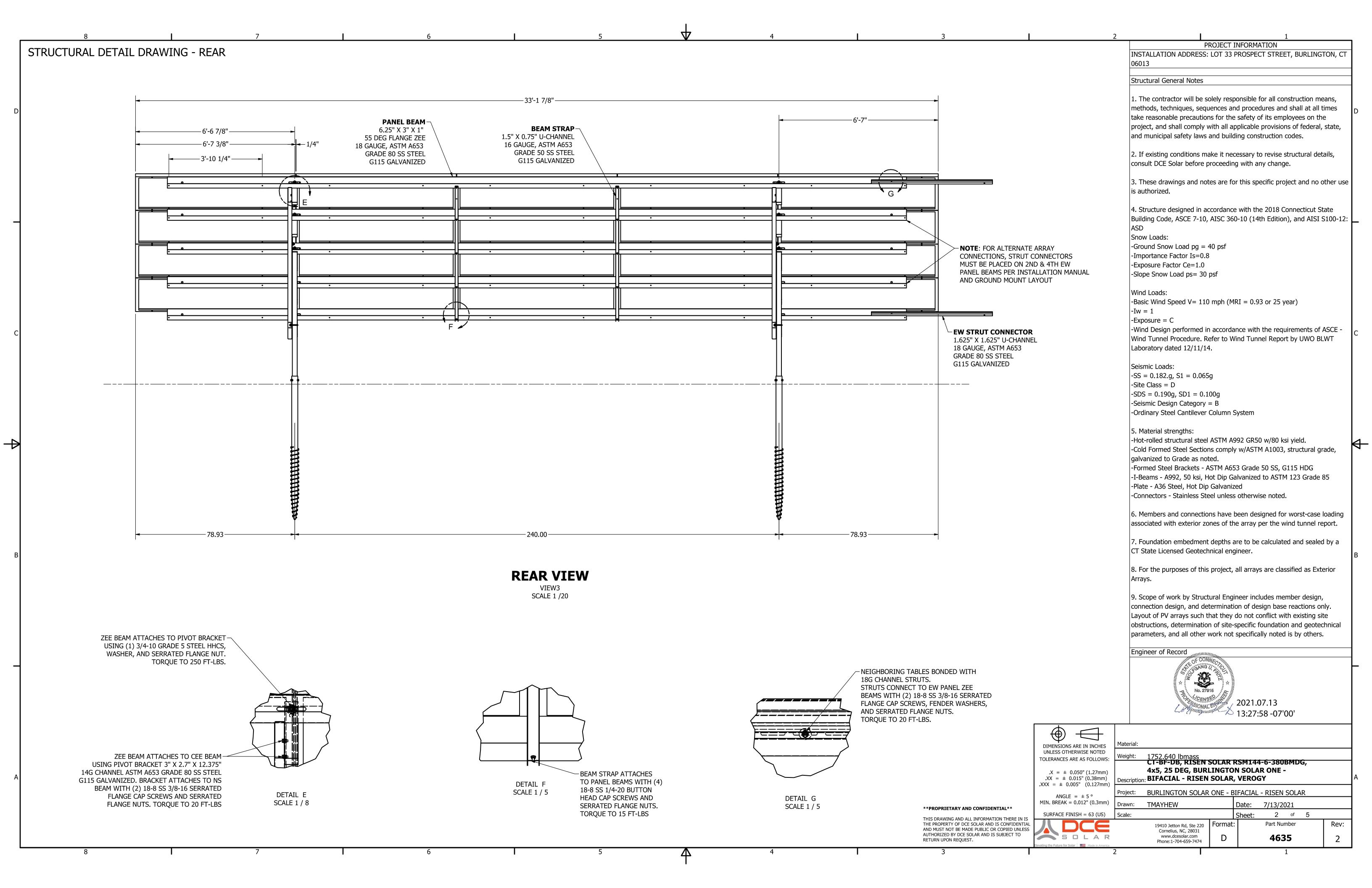


PANEL SPECIFICATION PROJECT INFORMATION INSTALLATION ADDRESS: LOT 33 PROSPECT STREET, BURLINGTON, CT NAME **DESCRIPTION** MANUFACTURER TRINA SOLAR MODEL TSM-DEG15MC.20(II) LENGTH (mm) Structural General Notes 2024 NS CEE BEAM-BEAM STRAP WIDTH (mm) 1002 1. The contractor will be solely responsible for all construction means, THICKNESS (mm) methods, techniques, sequences and procedures and shall at all times MATERIAL DESCRIPTION take reasonable precautions for the safety of its employees on the SHAPE MATERIAL MEMBER project, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building construction codes. PANEL BEAM 6.25Z3X1X55DEG A653 SS Gr80 2. If existing conditions make it necessary to revise structural details, 8CS2X0.625 NS CEE BEAM A653 SS Gr80 consult DCE Solar before proceeding with any change. 2.75CU1.75 KICKER BRACE A653 SS Gr50 3. These drawings and notes are for this specific project and no other use 1.5CU0.75 **BEAM BRACE** A653 SS Gr50 16GA is authorized. EW ZEE HSS2.375x0.154 FRONT/REAR LEG A500 GRADE C 4. Structure designed in accordance with the 2018 Connecticut State Building Code, ASCE 7-10, AISC 360-10 (14th Edition), and AISI S100-12: PULL TEST LOADS (GROUNDSCREW) REAR (lbs) FRONT (LBS) Snow Loads: UNFACTORED UPLIFT 2,300 450 -Ground Snow Load pg = 40 psfGROUND SCREW-UNFACTORED ADJUSTED UPLIFT* 2,950 1,800 -Importance Factor Is=0.8 2,550 4,200 UNFACTORED COMPRESSIVE -Exposure Factor Ce=1.0 UNFACTORED LATERAL 900 100 -Slope Snow Load ps= 30 psf NOTES -240.00 -*ADJUSTED UPLIFT IS ASSUMED AS 70% OF THE DOWNWARD LOAD, IT'S RECOMMENDED TO Wind Loads: -Basic Wind Speed V= 110 mph (MRI = 0.93 or 25 year) USE THIS LOAD FOR PULL TEST IN CASE PUSH TEST CANNOT BE PERFORMED. -Iw = 11: USE ADJUSTED UPLIFT IF NO REFUSAL IS ENCOUNTERED. -Exposure = C 2: USE UPLIFT FORCE IN CASE OF REFUSAL. -Wind Design performed in accordance with the requirements of ASCE -3: FOR UPLIFT AND LATERAL FORCES USE SAFETY FACTOR OF 1.5 AND 2, RESPECTIVELY. Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT **REAR VIEW** IN-FIELD PILE REMEDIATION ANY IN-FIELD REMEDIATION REQUIRING THE CUTTING OR DRILLING OF GALVANIZED Laboratory dated 12/11/14. **4X5 ARRAY** MATERIAL SHOULD FOLLOW ONE OF THESE TWO GUIDELINES TO COAT AND TREAT METALS VIEW13 THAT ARE EXPOSED TO GALVANIZATION DAMAGE: Seismic Loads: SCALE 0.03:1 1. USE PAINTS CONTAINING ZINC DUST (IN ACCORDANCE WITH "ASTM A 780-01" -SS = 0.182.g, S1 = 0.065g-Site Class = D |-SDS = 0.190g, SD1 = 0.100g2. USE ZINC SPRAY (IN ACCORDANCE WITH "ASTM A 780-01" SECTION A3) ONE OF THE ABOVE GUIDELINES MUST BE FOLLOWED TO MAINTAIN THE DCE WARRANTY REQUIREMENTS. -Seismic Design Category = B -Ordinary Steel Cantilever Column System 5. Material strengths: -Hot-rolled structural steel ASTM A992 GR50 w/80 ksi yield. -Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted. -Formed Steel Brackets - ASTM A653 Grade 50 SS, G115 HDG -I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85 -Plate - A36 Steel, Hot Dip Galvanized -Connectors - Stainless Steel unless otherwise noted. 4-09×14 Installing Hole 6. Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report. 7. Foundation embedment depths are to be calculated and sealed by a 4-Φ7×10 Installing Hole CT State Licensed Geotechnical engineer. 8. For the purposes of this project, all arrays are classified as Exterior 9. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site -160.07· obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others. Engineer of Record 6-Grounding Hole 12-Drain Hole **REAR VIEW 4X4 ARRAY** 13:26:09 -07'00' VIEW19 SCALE 0.03:1 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED 1758.293 lbmass CT-BF-DB, TRINA SOLAR TSM-DEG15MC.20(II), TOLERANCES ARE AS FOLLOWS: 4x5, 25 DEG, BURLINGTON SOLAR ONE - $X = \pm 0.050" (1.27mm)$ Description: BIFACIAL - TRINA SOLAR, VEROGY $XX = \pm 0.015" (0.38mm)$ $XXX = \pm 0.005$ " (0.127mm) BURLINGTON SOLAR ONE - BIFACIAL - TRINA SOLAR ANGLE = $\pm 5^{\circ}$ MIN. BREAK = 0.012" (0.3mm) Drawn: TMAYHEW Date: 7/7/2021 **PROPRIETARY AND CONFIDENTIAL** SURFACE FINISH = 63 (US) 3 of 5 THIS DRAWING AND ALL INFORMATION THERE IN IS 19410 Jetton Rd, Ste 220 Format: Part Number THE PROPERTY OF DCE SOLAR AND IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIED UNLESS Cornelius, NC, 28031 AUTHORIZED BY DCE SOLAR AND IS SUBJECT TO 4637 www.dcesolar.com RETURN UPON REQUEST. Phone:1-704-659-7474





PANEL SPECIFICATION PROJECT INFORMATION NAME DESCRIPTION INSTALLATION ADDRESS: LOT 33 PROSPECT STREET, BURLINGTON, CT MANUFACTURER RISEN SOLAR TECHNOLOGY MODEL RSM144-6-380BMDG Structural General Notes LENGTH (mm) 2016 NS CEE BEAM-BEAM STRAP WIDTH (mm) 998 1. The contractor will be solely responsible for all construction means, THICKNESS (mm) methods, techniques, sequences and procedures and shall at all times MATERIAL DESCRIPTION take reasonable precautions for the safety of its employees on the SHAPE MATERIAL MEMBER project, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building construction codes. PANEL BEAM 6.25Z3X1X55DEG A653 SS Gr80 2. If existing conditions make it necessary to revise structural details, 8CS2X0.625 NS CEE BEAM A653 SS Gr80 consult DCE Solar before proceeding with any change. 2.75CU1.75 KICKER BRACE A653 SS Gr50 3. These drawings and notes are for this specific project and no other use 1.5CU0.75 **BEAM BRACE** A653 SS Gr50 16GA is authorized. HSS2.375x0.154 FRONT/REAR LEG A500 GRADE C 4. Structure designed in accordance with the 2018 Connecticut State Building Code, ASCE 7-10, AISC 360-10 (14th Edition), and AISI S100-12: PULL TEST LOADS (GROUNDSCREW) REAR (lbs) FRONT (LBS) Snow Loads: 2,300 UNFACTORED UPLIFT 450 -Ground Snow Load pg = 40 psfGROUND SCREW-UNFACTORED ADJUSTED UPLIFT* 2,950 1,800 -Importance Factor Is=0.8 4,200 2,550 UNFACTORED COMPRESSIVE -Exposure Factor Ce=1.0 UNFACTORED LATERAL 900 100 -Slope Snow Load ps= 30 psf NOTES 240.00-*ADJUSTED UPLIFT IS ASSUMED AS 70% OF THE DOWNWARD LOAD, IT'S RECOMMENDED TO Wind Loads: -Basic Wind Speed V= 110 mph (MRI = 0.93 or 25 year) USE THIS LOAD FOR PULL TEST IN CASE PUSH TEST CANNOT BE PERFORMED. -Iw = 11: USE ADJUSTED UPLIFT IF NO REFUSAL IS ENCOUNTERED. -Exposure = C 2: USE UPLIFT FORCE IN CASE OF REFUSAL. -Wind Design performed in accordance with the requirements of ASCE -3: FOR UPLIFT AND LATERAL FORCES USE SAFETY FACTOR OF 1.5 AND 2, RESPECTIVELY. Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT IN-FIELD PILE REMEDIATION **REAR VIEW** ANY IN-FIELD REMEDIATION REQUIRING THE CUTTING OR DRILLING OF GALVANIZED Laboratory dated 12/11/14. **4X5 ARRAY** MATERIAL SHOULD FOLLOW ONE OF THESE TWO GUIDELINES TO COAT AND TREAT METALS VIEW13 THAT ARE EXPOSED TO GALVANIZATION DAMAGE: Seismic Loads: SCALE 0.03:1 1. USE PAINTS CONTAINING ZINC DUST (IN ACCORDANCE WITH "ASTM A 780-01" -SS = 0.182.g, S1 = 0.065g-Site Class = D |-SDS = 0.190g, SD1 = 0.100g2. USE ZINC SPRAY (IN ACCORDANCE WITH "ASTM A 780-01" SECTION A3) ONE OF THE ABOVE GUIDELINES MUST BE FOLLOWED TO MAINTAIN THE DCE WARRANTY REQUIREMENTS. -Seismic Design Category = B -Ordinary Steel Cantilever Column System 5. Material strengths: -Hot-rolled structural steel ASTM A992 GR50 w/80 ksi yield. -Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted. -Formed Steel Brackets - ASTM A653 Grade 50 SS, G115 HDG Mounting hole: Drainage holes -I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85 8-9*20 -Plate - A36 Steel, Hot Dip Galvanized -Connectors - Stainless Steel unless otherwise noted. 6. Members and connections have been designed for worst-case loading Mounting holes 4-7*10 associated with exterior zones of the array per the wind tunnel report. 7. Foundation embedment depths are to be calculated and sealed by a CT State Licensed Geotechnical engineer. 8. For the purposes of this project, all arrays are classified as Exterior 9. Scope of work by Structural Engineer includes member design, 160.37 connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site Positive(+)270mmy obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others. |Engineer of Record **REAR VIEW 4X4 ARRAY** 2021.07.13 VIEW19 **13:27:47 -07'00'** SCALE 0.03:1 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED 1752.640 lbmass CT-BF-DB, RISEN SOLAR RSM144-6-380BMDG, TOLERANCES ARE AS FOLLOWS: 4x5, 25 DEG, BURLINGTON SOLAR ONE - $X = \pm 0.050" (1.27mm)$ Description: BIFACIAL - RISEN SOLAR, VEROGY $XX = \pm 0.015" (0.38mm)$ $XXX = \pm 0.005$ " (0.127mm) BURLINGTON SOLAR ONE - BIFACIAL - RISEN SOLAR ANGLE = $\pm 5^{\circ}$ MIN. BREAK = 0.012'' (0.3mm) TMAYHEW Drawn: Date: 7/13/2021 **PROPRIETARY AND CONFIDENTIAL** SURFACE FINISH = 63 (US) 3 of 5 THIS DRAWING AND ALL INFORMATION THERE IN IS 19410 Jetton Rd, Ste 220 | Format: THE PROPERTY OF DCE SOLAR AND IS CONFIDENTIAL Part Number AND MUST NOT BE MADE PUBLIC OR COPIED UNLESS Cornelius, NC, 28031 AUTHORIZED BY DCE SOLAR AND IS SUBJECT TO 4635 www.dcesolar.com RETURN UPON REQUEST. Phone:1-704-659-7474