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Anna Sanyal Direct Dial (614) 464-5424 Email aasanyal@vorys.com

June 14, 2023

Ms. Tanowa M. Troupe, Secretary Public Utilities Commission of Ohio 180 E. Broad Street, 11<sup>th</sup> Floor Columbus, OH 43215-3793

Re: Clearview Solar Project

Case No. 20-1362-EL-BGN

Condition Compliance – Conditions 2, 8, and 9

Dear Ms. Troupe:

In compliance with and pursuant to Conditions 2, 8, and 9 of the August 25, 2021 Joint Stipulation and Recommendation filed in this proceeding (as approved by the Board's October 21, 2021 Opinion, Order, and Certificate), Clearview Solar I, LLC confirms that it has submitted to Board Staff detailed engineering drawings depicting 90% electrical and structural design for the Clearview Solar Project. A copy is attached.

Please call me if you have any questions.

Very truly yours,

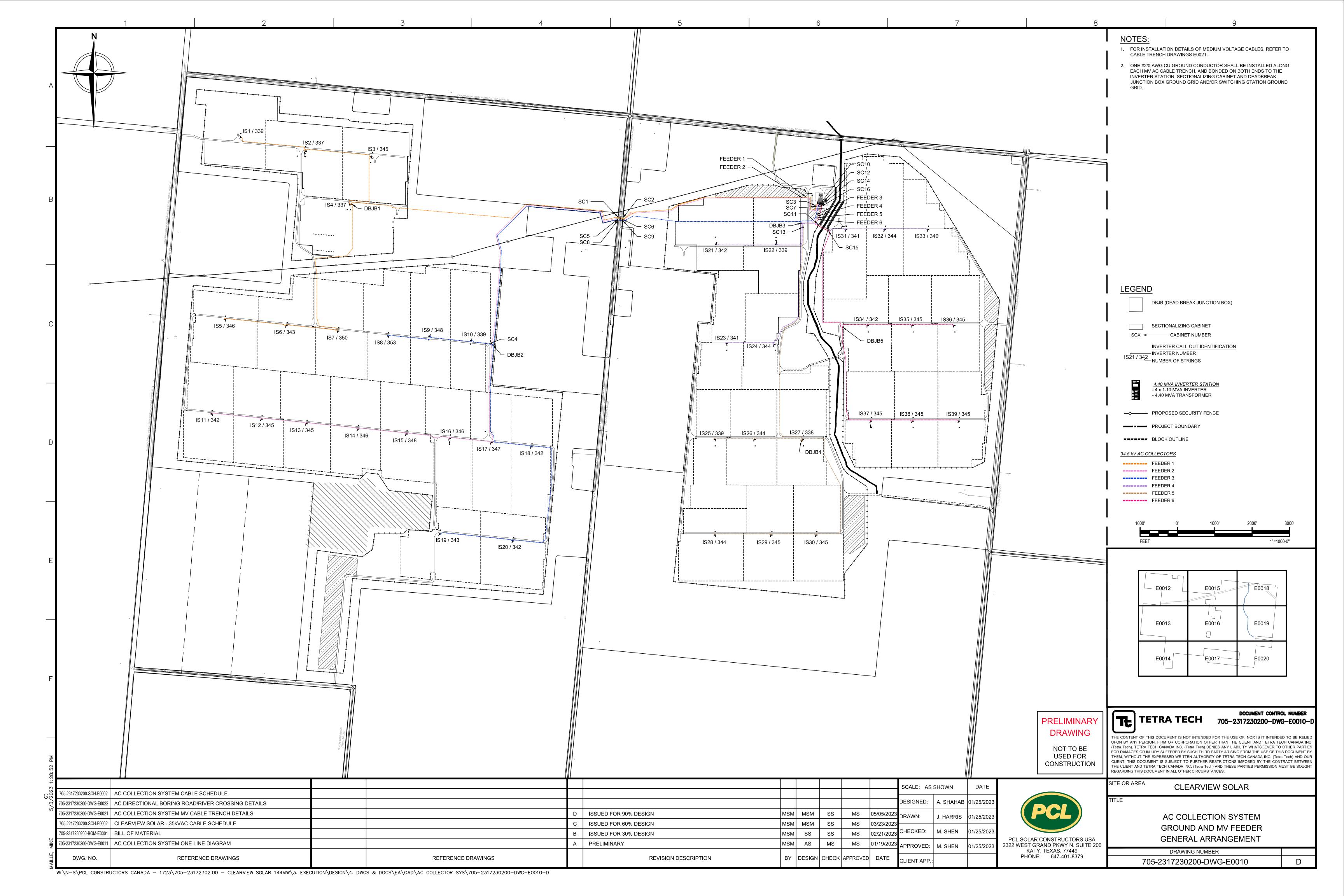
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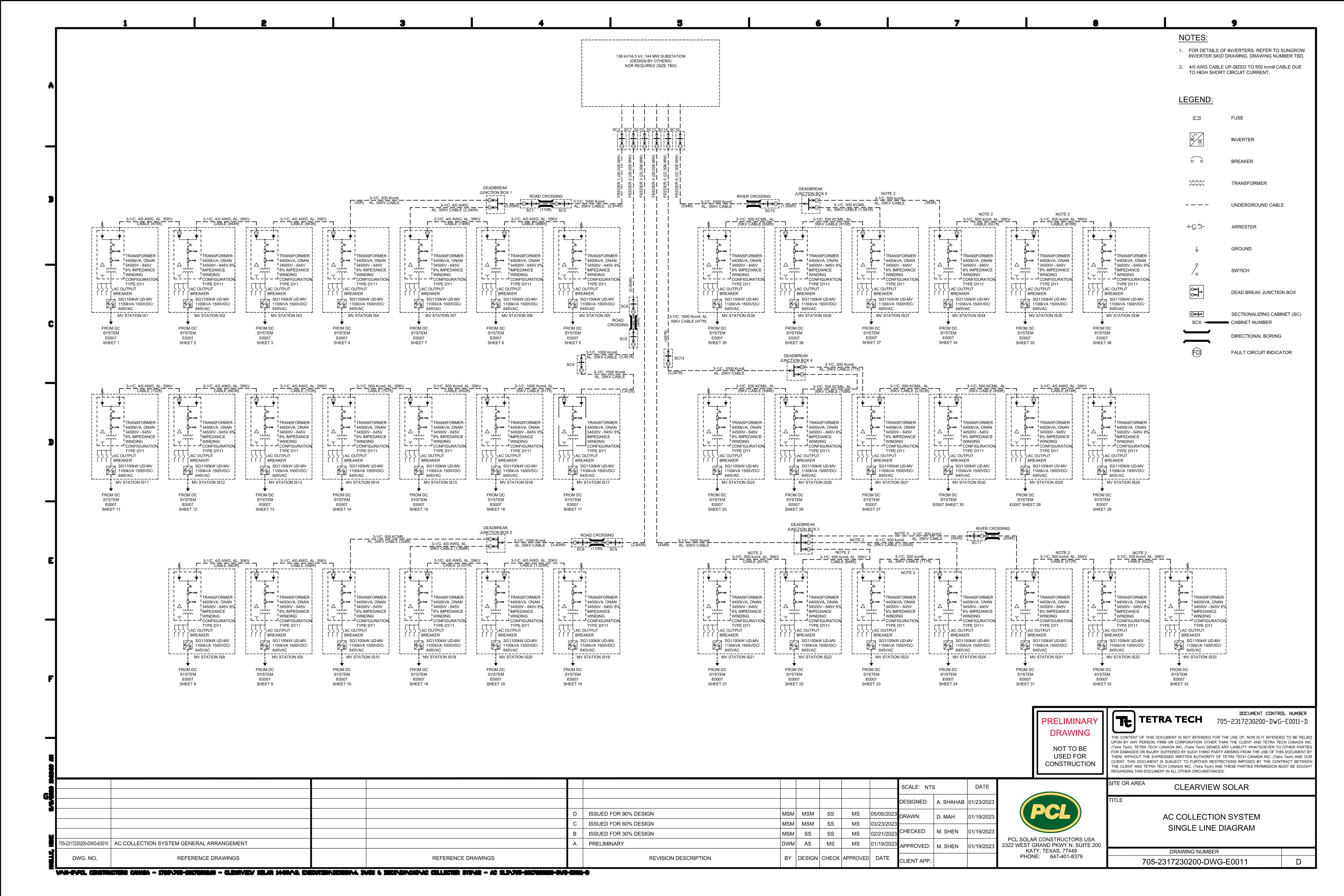
Anna Sanyal

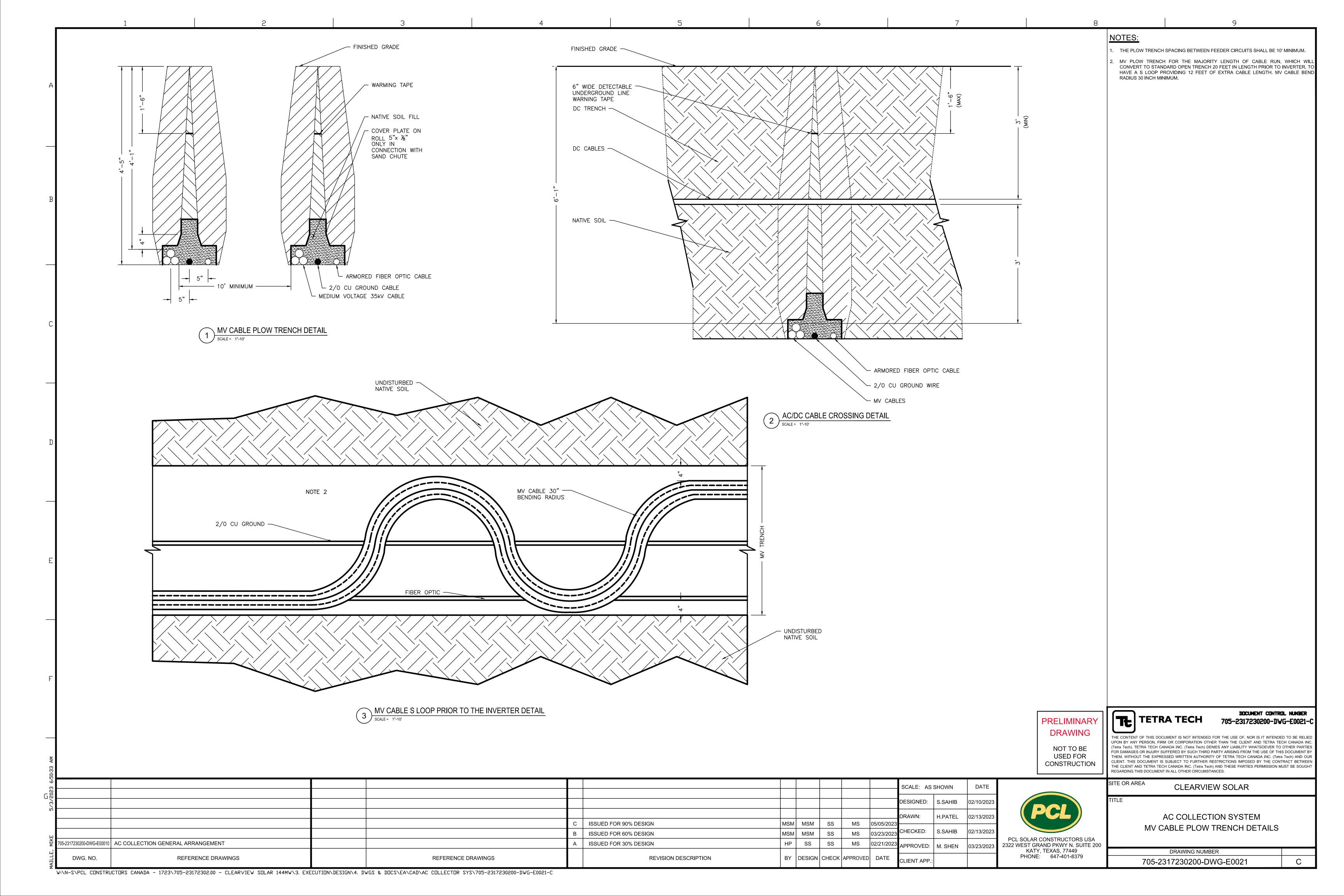
Counsel for Clearview Solar I, LLC

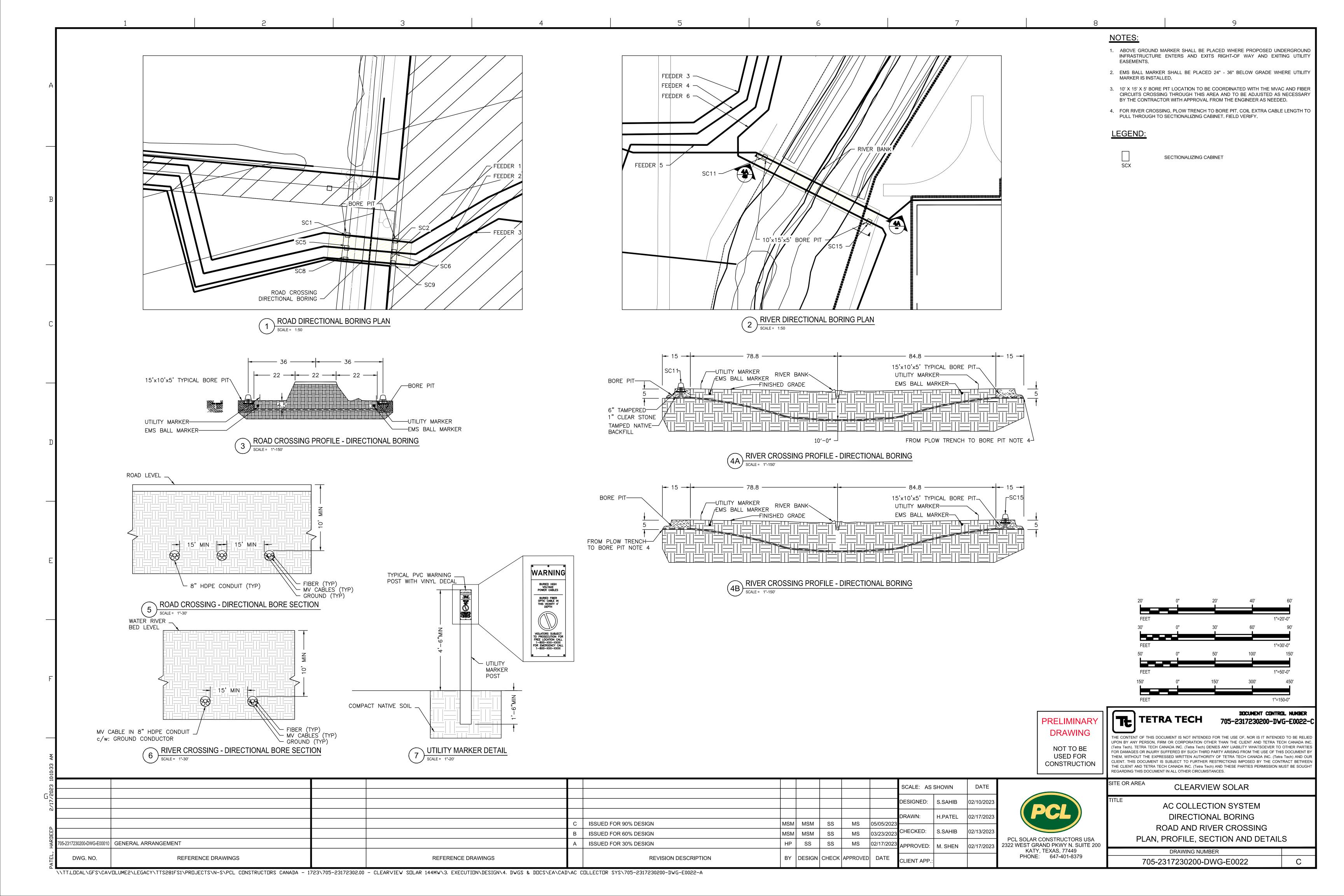
AS/jaw Attachment

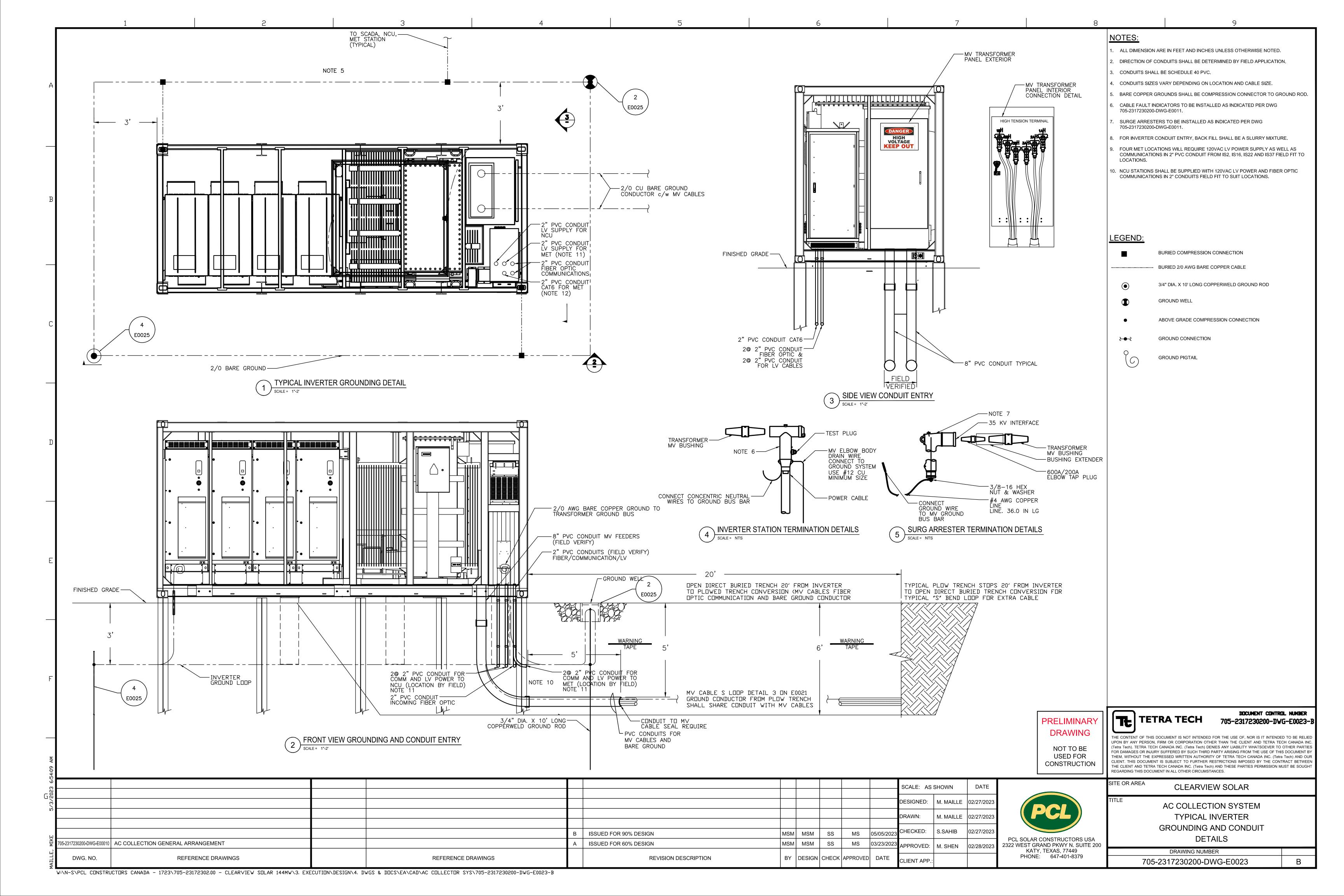
cc: Andrew Conway

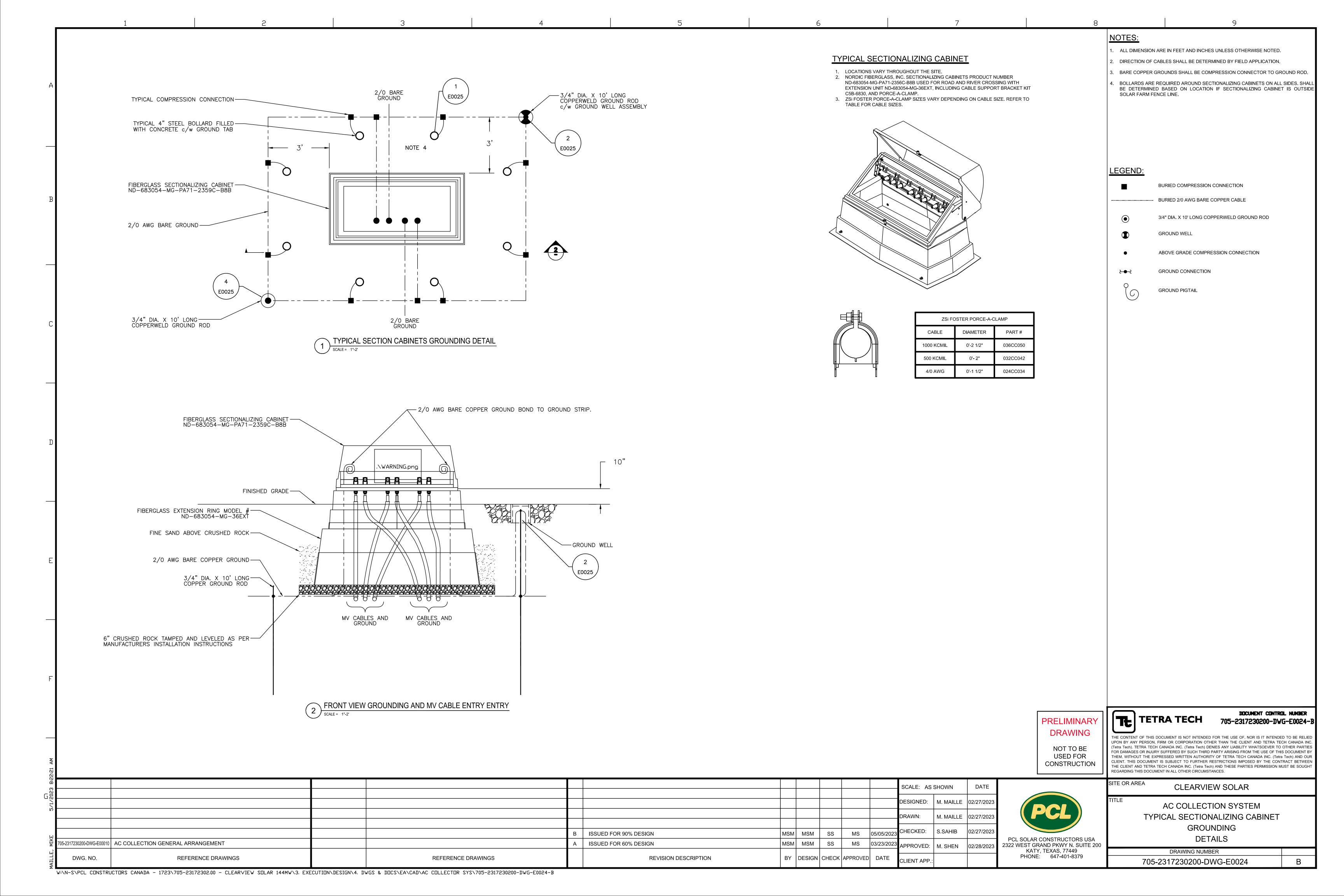


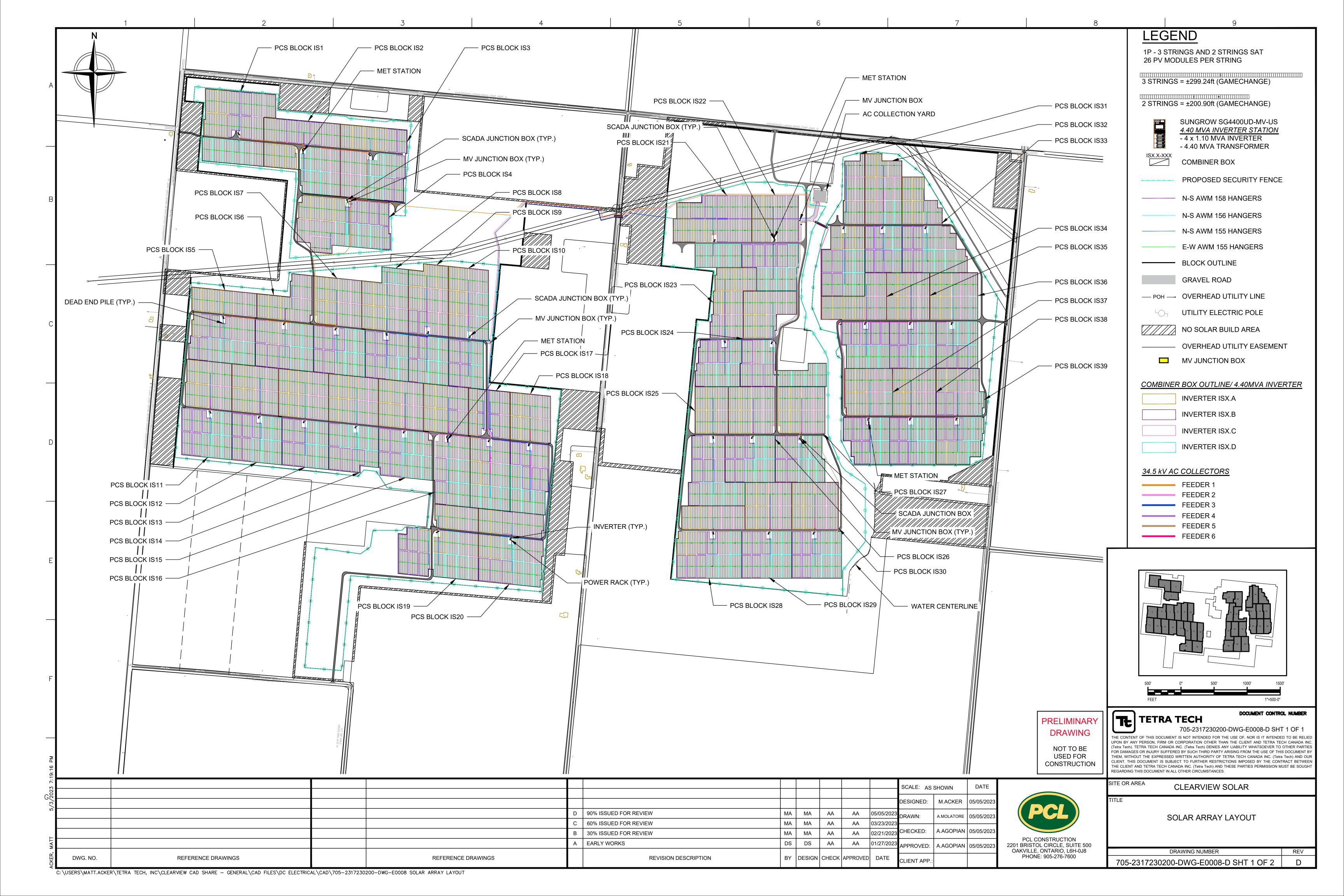




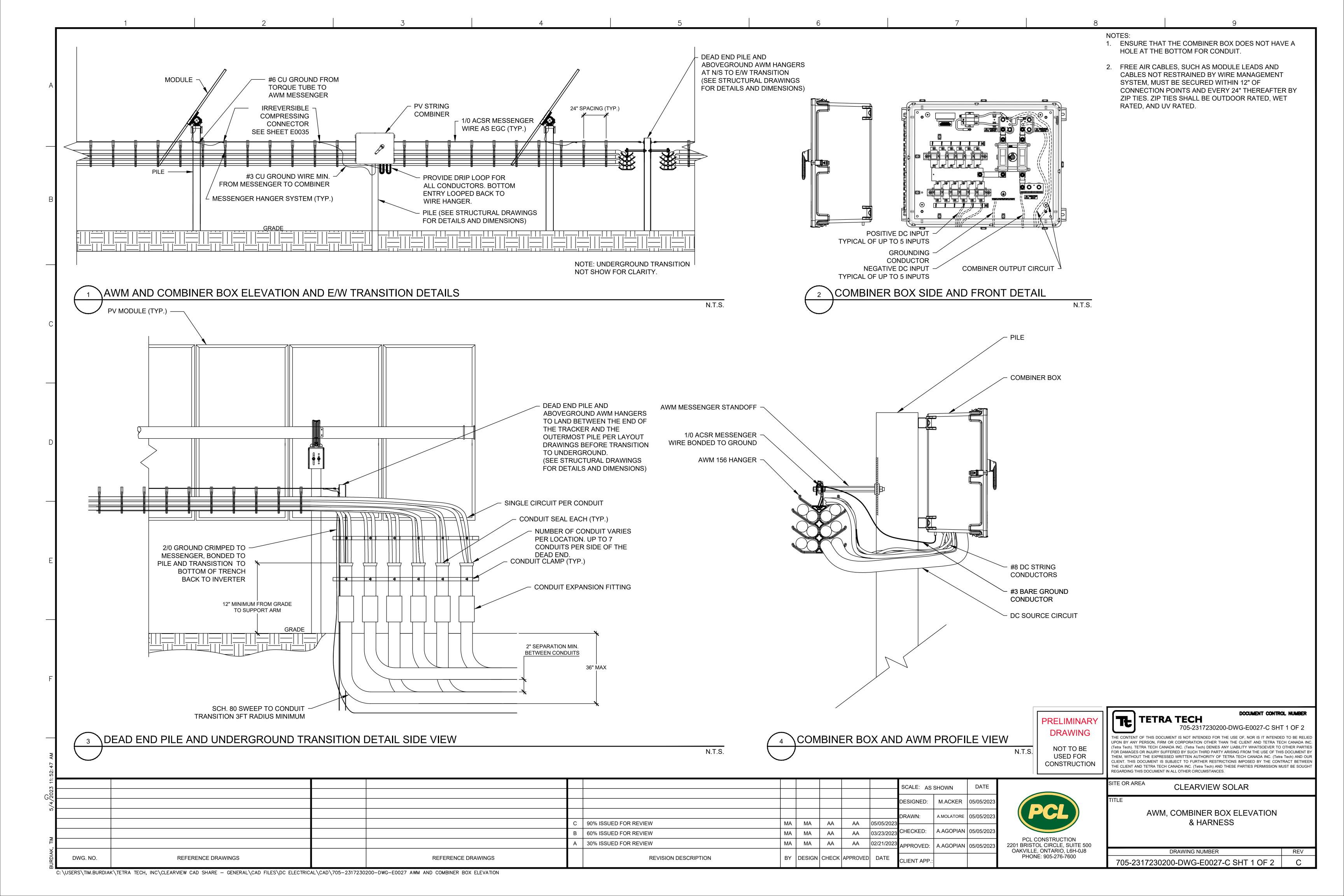


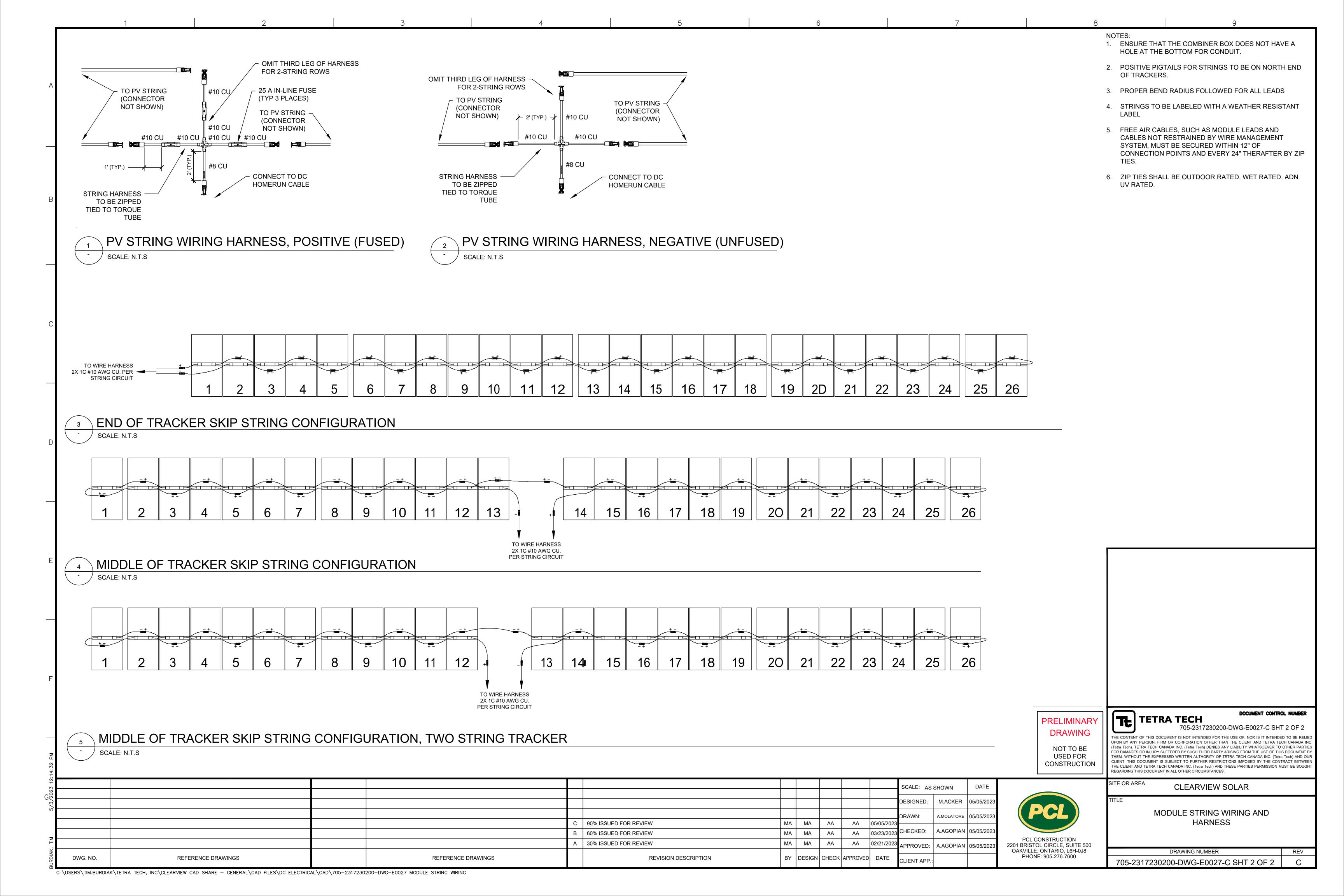


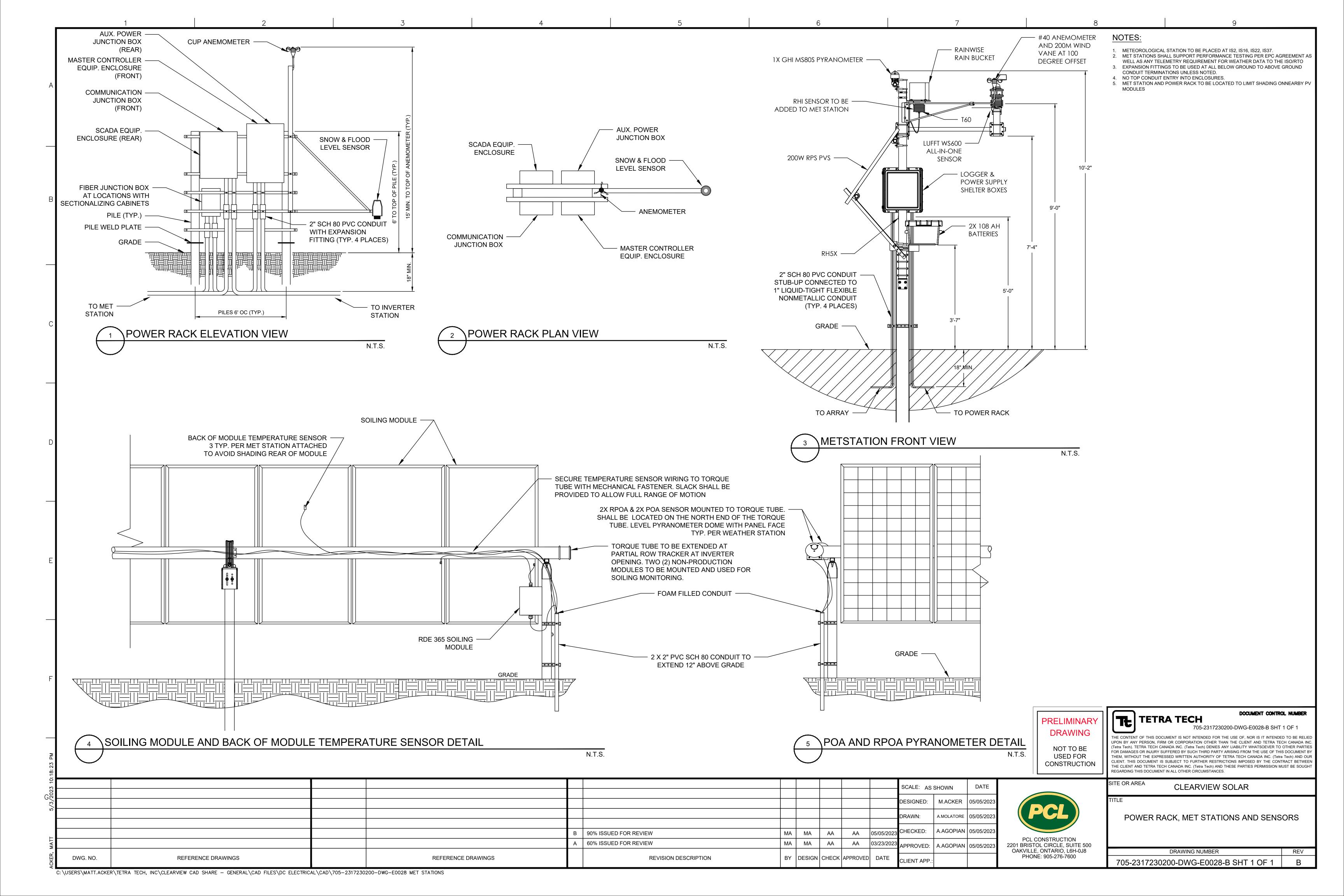


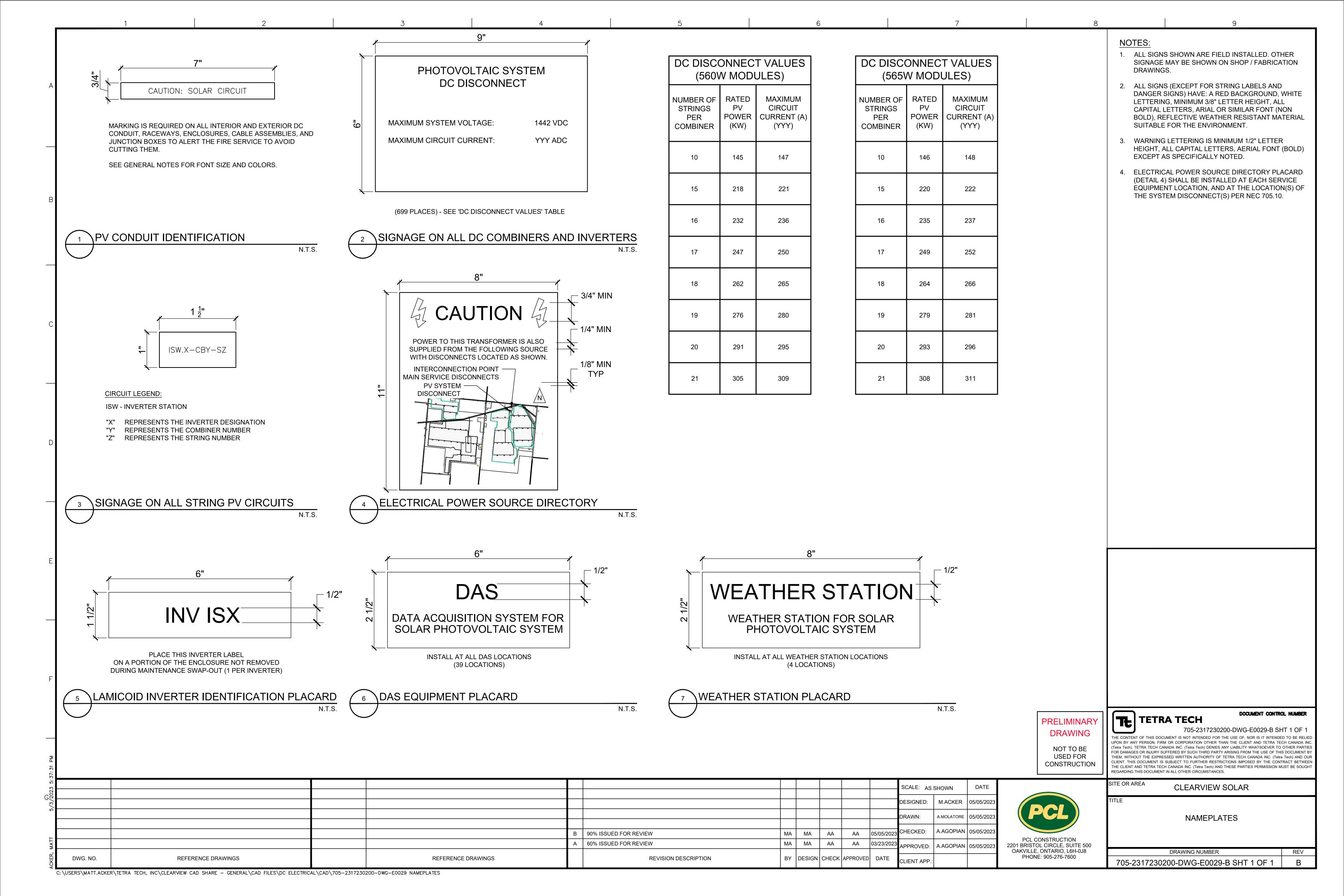


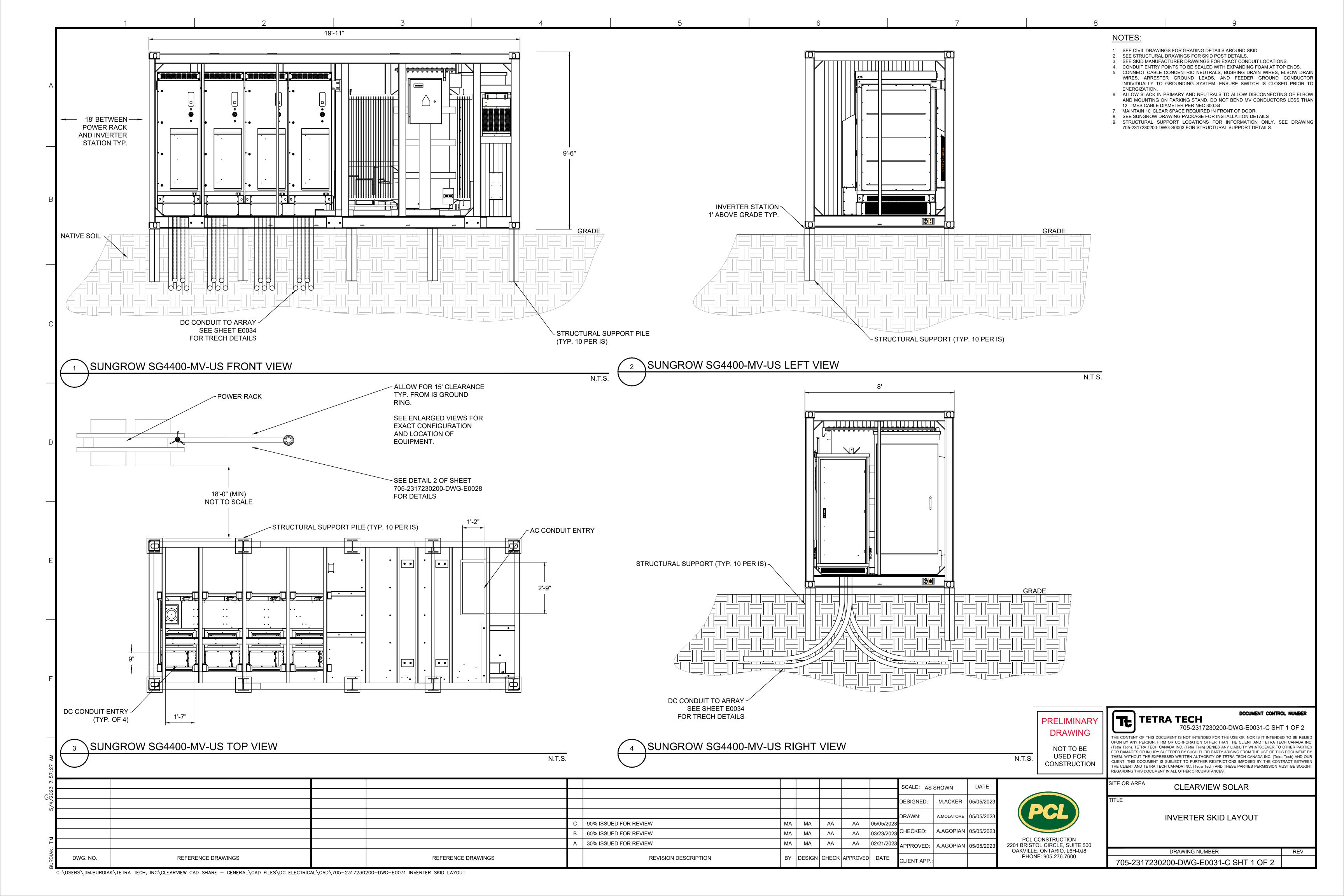


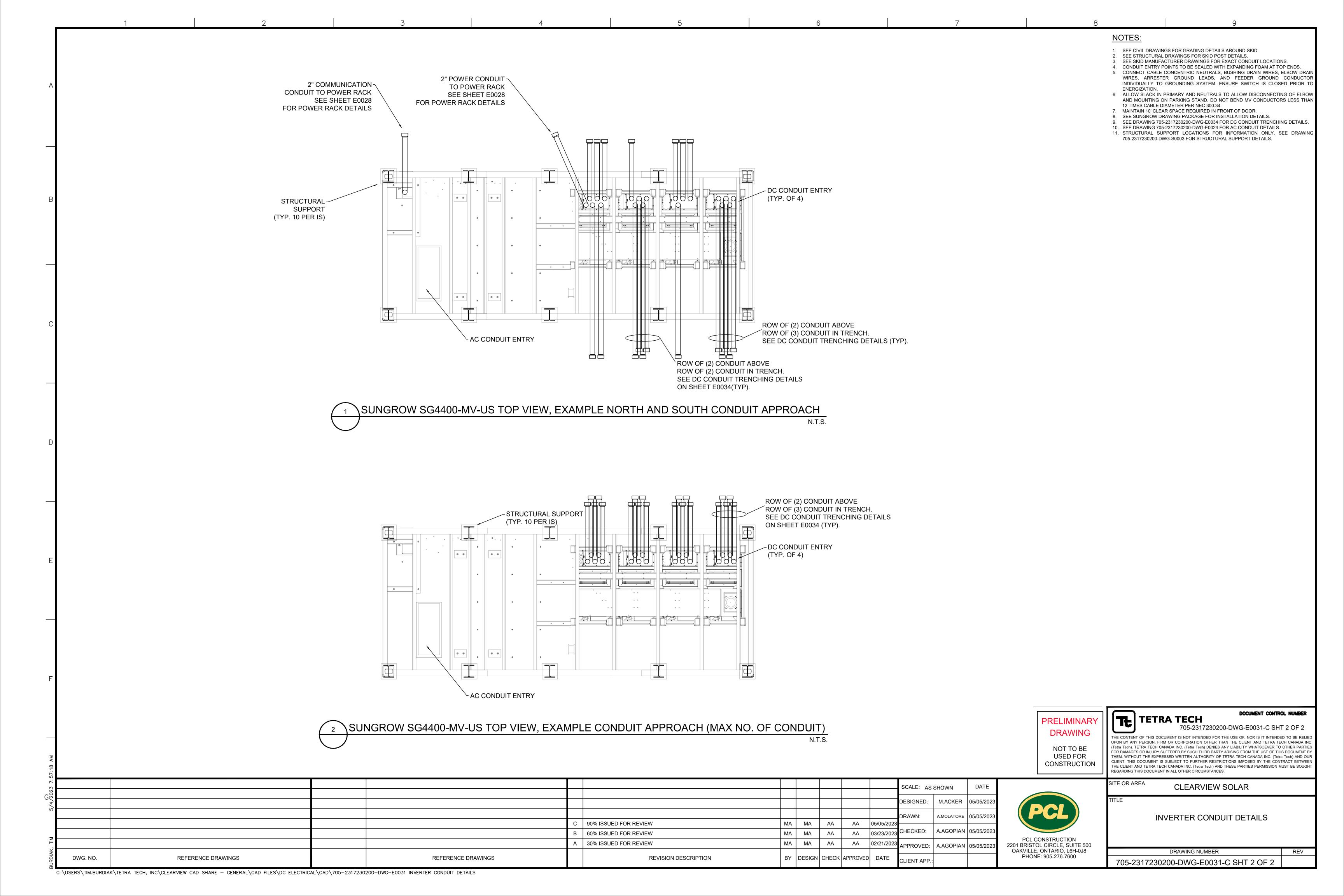


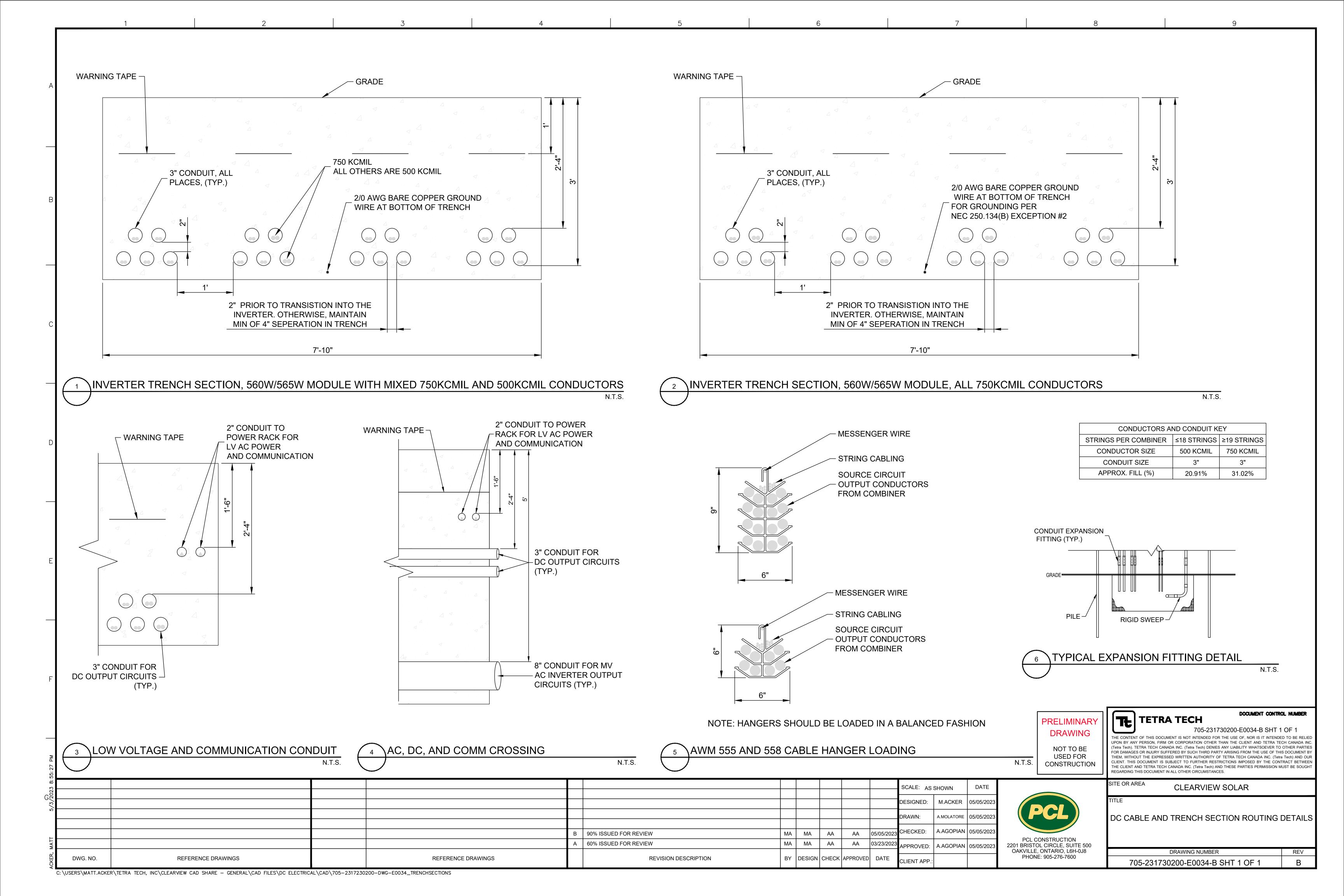


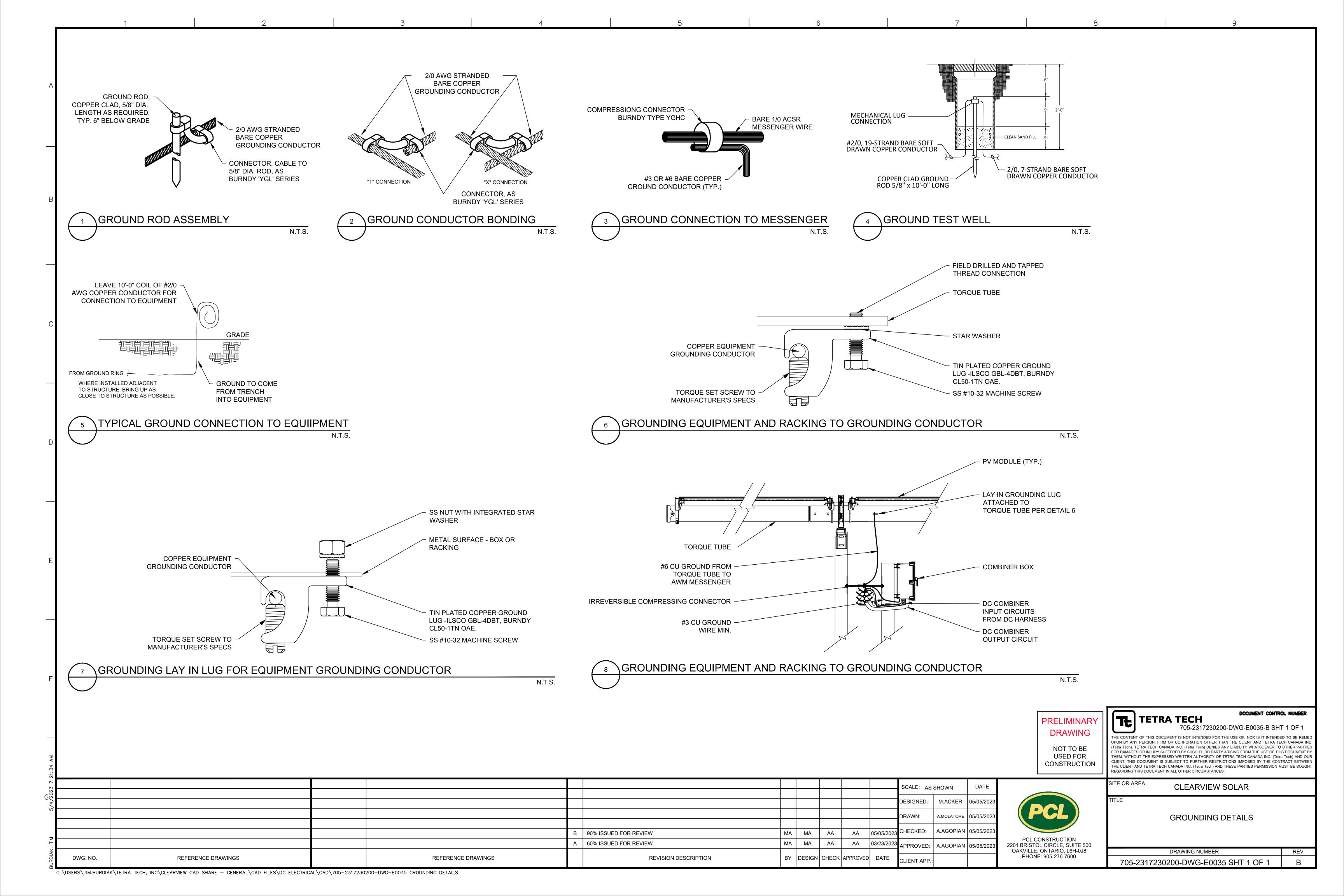




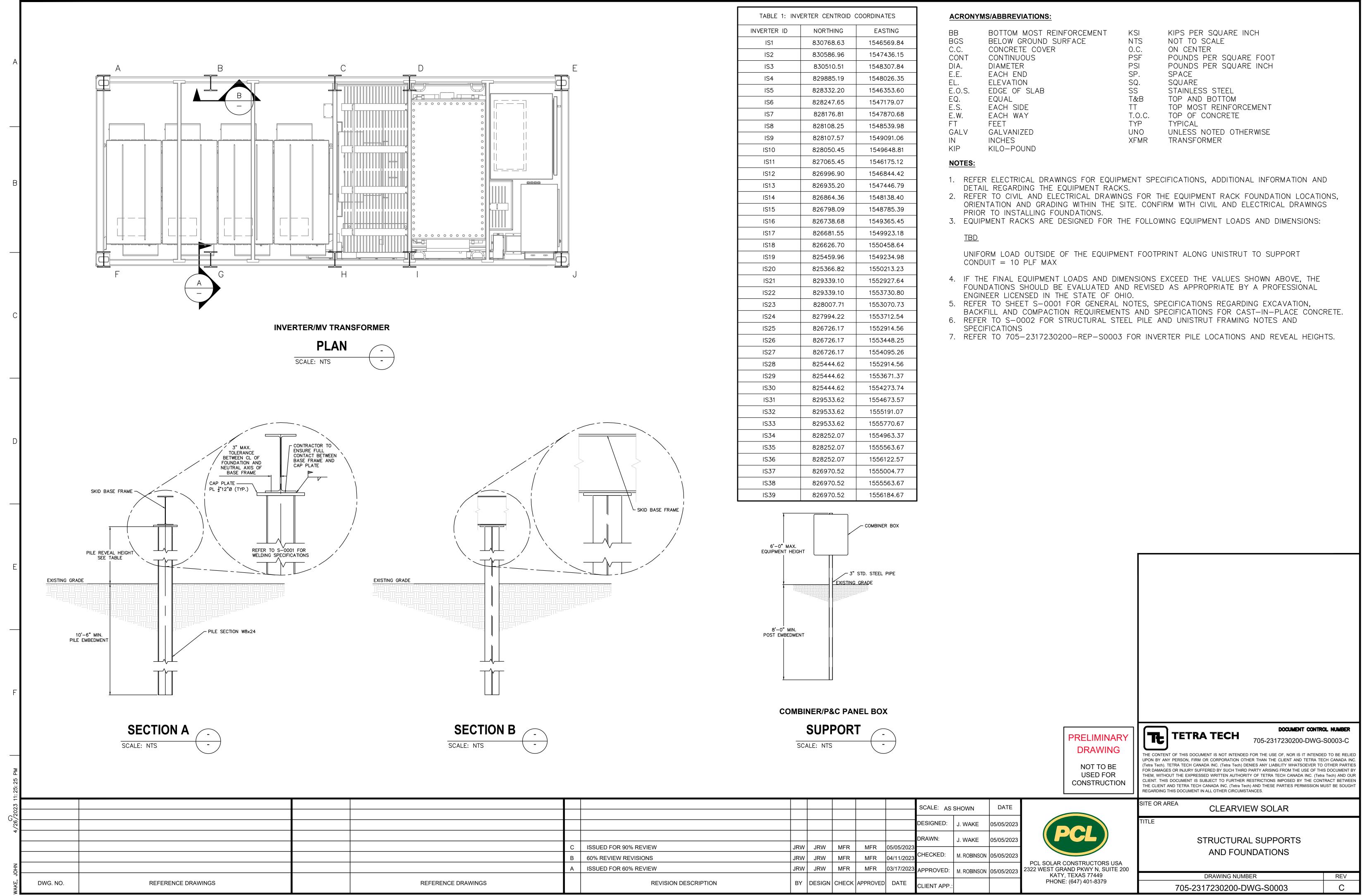












SHOWN IN THE DESIGN DRAWINGS. CONTAIN CHLORIDE. **GENERAL NOTES** 2. SERIAL NUMBER OF TICKET 3. DATE E.HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER) SHALL CONFORM TO ASTM C.SEE REQUIREMENTS IN EXCAVATION, BACKFILL AND COMPACTION, PART 1 GENERAL, PARAGRAPH A. THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND 4. TRUCK NUMBER APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE 1.2 D and E. 5. NAME OF PURCHASER THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE D.REMOVE UNSUITABLE EXCAVATED MATERIALS FROM THE FOUNDATION FOOTPRINT AS DIRECTED F. WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NO 6. AMOUNT OF CONCRETE IN CUBIC YARDS QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN BY THE PCL REPRESENTATIVE. MORE THAN 1% CHLORIDE IONS. WRITING PRIOR TO CONSTRUCTION. 7. MAXIMUM SIZE OF AGGREGATE E. EXCAVATE AND REMOVE TOPSOIL WITHIN THE ZONE OF INFLUENCE OF SHALLOW FOUNDATIONS G.CALCIUM CHLORIDE SHALL NOT BE USED. 8. INGREDIENTS CERTIFIED AS BEING PREVIOUSLY APPROVED B. THE FOUNDATION SUPPORT AND SOIL PROPERTIES FOR THIS DESIGN ARE BASED ON OR EQUIPMENT PADS, AS DEFINED BY A 1-HORIZONTAL TO 1-VERTICAL (1H:1V) LINE, H.POZZOLANS (FLY ASH) SHALL CONFORM TO ASTM C618, CLASS F AND THE LOSS OF IGNITION 9. SIGNATURE OF PRODUCER'S REPRESENTATIVE RECOMMENDATIONS AND/OR DATA PROVIDED IN THE GEOTECHNICAL ENGINEERING REPORT SLOPING DOWNWARD AND OUTWARD FROM 1-FOOT OUTSIDE THE BOTTOM EDGE OF 10.TIME THE BATCH WAS PLACED IN THE TRUCK (LOI) SHALL BE LESS THAN 6%. POZZOLANS SHALL BE LIMITED TO A MAXIMUM OF 25% OF PREPARED BY OGA. FOOTINGS/PADS. E. AVOID SEGREGATING THE CONCRETE MIX DURING DISCHARGE AT THE LOCATION OF PLACEMENT. CEMENTITOUS CONTENT. C.ALL CONCRETE WORK SHALL CONFORM TO ACI-318 (2014). F. WHERE PRACTICAL, FINAL EXCAVATION SHOULD BE UNDERTAKEN USING A SMOOTH-EDGED F. TRANSPORT CONCRETE FROM THE BATCH PLANT TO THE PROJECT SITE AS SOON AS POSSIBLE I. FINE AGGREGATE: FINE AGGREGATE SHALL CONFORM TO ASTM C33. FINE AGGREGATE SHALL BUCKET TO LIMIT DISTURBANCE OF THE SUBGRADE. BUILDING AND DESIGN CODES TO AVOID DELAYS AND DISPOSAL OF UNSUITABLE CONCRETE. CONSIST OF NATURAL SAND, MANUFACTURED SAND OR A COMBINATION THEREOF. G.EXCAVATION SHOULD BE CARRIED OUT IN SUCH A MANNER THAT THE GRADE THROUGHOUT 1. 2017 OHIO STATE BUILDING CODE, 2015 INTERNATIONAL BUILDING CODE. G.CLEAN TRANSPORTING EQUIPMENT BEFORE EACH BATCH. DO NOT USE ALUMINUM PIPE OR J. CURING COMPOUND SHALL COMPLY WITH ASTM C309, TYPE I, CLASS A THE WORK AREA IS KEPT DRAINED AT ALL TIMES. 2. ACI 318 (2014) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN 2.4 CONCRETE MIX DESIGN CONCRETE INSTITUTE. H.READY-MIX CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 AND ASTM C94. A.CONCRETE MIX DESIGN SHALL BE PREPARED FOR EACH REQUIRED TYPE AND STRENGTH OF 3. ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. A. STOCKPILE MATERIALS ON SITE AT LOCATIONS INDICATED BY THE OWNER. CONCRETE BY EITHER LABORATORY TRIAL BATCH, FIELD EXPERIENCE METHODS AS SPECIFIED IN I. REJECT CONCRETE FROM A TRUCK HAS GONE THROUGH MORE THAN 300 REVOLUTIONS. 4. AISC 360-10, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. 3.5 CLEANUP AND RESTORATION ACI 318. THE MIX DESIGNS AND SUPPORTING DATA, SIGNED BY A PROFESSIONAL ENGINEER 3.4 PLACING CONCRETE REGISTERED IN THE STATE OF OHIO, SUBMITTED TO AND APPROVED BY THE FIELD ENGINEER A.REMOVE STOCKPILE; LEAVE AREA IN CLEAN AND NEAT CONDITION, GRADE THE AREA AROUND STRUCTURAL DESIGN CRITERIA A.NOTIFY PCL REPRESENTATIVE A MINIMUM 24 HOURS PRIOR TO COMMENCEMENT OF CONCRETE PRIOR TO PLACING CONCRETE. THE FOUNDATIONS IN ACCORDANCE WITH CIVIL DESIGN DRAWINGS. OPERATIONS. 1. APPLIES TO ALL STRUCTURES (UNO) B. WATER/CEMENT RATIO (MAXIMUM BY WEIGHT): 0.45 MAX 3.6 BACKFILLING EQUIPMENT WEIGHT + SELF-WEIGHT B.PRE-PLACEMENT INSPECTION: PCL REPRESENTATIVE SHALL INSPECT THE COMPLETED a. FOUNDATION DEAD LOAD: A.DO NOT BACKFILL OVER POROUS, WET, FROZEN, OR SPONGY SUBGRADE SURFACES. C. ADMIXTURE TYPES AND QUANTITIES SHALL BE AS INDICATED IN CONCRETE MIX DESIGNS. FORMWORK, REINFORCING STEEL, AND ITEMS TO BE EMBEDDED PRIOR TO CONCRETE PLACEMENT. HOWEVER, THIS DOES NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY FOR B. ALL FILL MATERIAL PLACED ADJACENT TO AND SUPPORTING THE FOUNDATIONS SHALL BE a. RISK CATEGORY: ACCEPTABLE AND SATISFACTORILY COMPLETED WORK. STRUCTURAL FILL AS SHOWN ON THE FOUNDATION DETAILS. 2.5 LABORATORY AND FIELD TESTING OF CONCRETE b. BASIC WIND SPEED: 105 MPH C.PLACE CONCRETE AS SOON AS PRACTICAL AFTER THE FORMS AND THE REINFORCEMENT HAVE C.PREPARE SUBGRADE AND BACKFILL IN ACCORDANCE WITH ALL RECOMMENDATIONS PROVIDED IN A. COMPRESSIVE STRENGTH (28 DAY, ASTM C39): 4500 PSI c. EXPOSURE: BEEN INSPECTED AND APPROVED. DO NOT PLACE CONCRETE WHEN WEATHER CONDITIONS THE PROJECT GEOTECHNICAL INVESTIGATION REPORT. PREVENT PROPER PLACEMENT, CONSOLIDATION AND CURING; IN UNCOVERED AREAS DURING 3. SEISMIC: B. AGGREGATE SIZE (MAXIMUM, ASTM C33): 1.5 INCHES D.PRIOR TO PLACING STRUCTURAL FILL, THOROUGHLY PROOF ROLL EXPOSED SUBGRADE WITH PERIODS OF PRECIPITATION; OR IN STANDING WATER. PRIOR TO PLACING CONCRETE, REMOVE a. RISK CATEGORY: CONSTRUCTION EQUIPMENT AS DESCRIBED IN THE GEOTECHNICAL REPORT. WHERE C.ENTRAINED AIR (ASTM C231): 6 PERCENT  $(\pm 1.0 \text{ PERCENT})$ DIRT, CONSTRUCTION DEBRIS, WATER, SNOW, AND ICE FROM WITHIN THE FORMS. DEPOSIT b. IMPORTANCE FACTOR: 1.0 PROOFROLLING IDENTIFIES AREAS THAT ARE UNSTABLE OR "PUMPING" SUBGRADE THOSE AREAS CONCRETE AS CLOSE AS PRACTICABLE TO THE FINAL POSITION IN THE FORMS. DO NOT D.SLUMP (ASTM C143): 4 INCHES  $\pm$  1 INCH SHOULD BE REPAIRED PRIOR TO THE PLACEMENT OF ANY SUBSEQUENT ENGINEERED FILL OR EXCEED A FREE VERTICAL DROP OF 5 FEET FROM THE POINT OF DISCHARGE. c. SPECTRAL RESPONSE ACCELERATION, S/s: 0.197g MAXIMUM SLUMP FOR CONCRETE USING A HIGH-RANGE WATER-REDUCER MAY BE INCREASED OTHER CONSTRUCTION MATERIALS. METHODS OF STABILIZATION INCLUDE UNDERCUTTING, D.CONSOLIDATION: CONSOLIDATE CONCRETE IN ACCORDANCE WITH ACI 301, CONSOLIDATE d. SPECTRAL RESPONSE ACCELERATION, S/1: 0.071g TO 6 INCHES. MOISTURE CONDITIONING, OR CHEMICAL STABILIZATION. THE SITUATION SHOULD BE DISCUSSED CONCRETE FOUNDATION WITH HIGH FREQUENCY, INTERNAL, MECHANICAL VIBRATING EQUIPMENT WITH THE GEOTECHNICAL ENGINEER TO DETERMINE THE APPROPRIATE PROCEDURE. TEST PITS 2.6 CONTROL JOINT BACKER ROD AND SEALANT e. SITE CLASS: SUPPLEMENTED BY HAND SPADING AND TAMPING. OPERATE VIBRATORS WITH VIBRATORY MAY BE EXCAVATED TO EXPLORE THE SHALLOW SUBSURFACE MATERIALS TO HELP IN A. PROVIDE NON-ABSORPTIVE NON-REACTIVE BACKER ROD TO FIT SNUG IN JOINT IN ELEMENT SUBMERGED IN THE CONCRETE, WITH A MINIMUM FREQUENCY OF NOT LESS THAN f. SEISMIC DESIGN CATEGORY: DETERMINING THE CAUSE OF THE OBSERVED UNSTABLE MATERIALS, AND TO ASSIST IN THE 6000 IMPULSES PER MINUTE WHEN SUBMERGED. DO NOT USE VIBRATORS TO TRANSPORT ACCORDANCE WITH ASTM D5249. PROVIDE MATERIAL THAT IS 25 PERCENT LARGER IN EVALUATION OF APPROPRIATE REMEDIAL ACTIONS TO STABILIZE THE SUBGRADE. g. SPECTRAL RESPONSE COEFFICIENT, S/DS: 0.210g THE CONCRETE IN THE FORMS. INSERT AND WITHDRAW VIBRATORS AT A SPACING DIAMETER THAN THE NOMINAL WIDTH OF THE SAWCUT JOINT. E. PROTECT THE EXPOSED SUBGRADE FROM FROST AT ALL TIMES DURING CONSTRUCTION. RECOMMENDED BY THE MANUFACTURER. PENETRATE THE PREVIOUSLY PLACED LIFT WITH THE h. SPECTRAL RESPONSE COEFFICIENT, S/D1: B.PROVIDE AN ASTM C920, Type M, Class 25, USE NT JOINT SEALANT. VIBRATOR WHEN MORE THAN ONE LIFT IS REQUIRED. PLACE CONCRETE IN 18 INCHES F. MAINTAIN MOISTURE CONTENT OF BACKFILL MATERIALS WITHIN -1 TO +3 PERCENTAGE POINTS 20 PSF 4. SNOW LOAD: MAXIMUM VERTICAL LIFTS. EXTERNAL VIBRATORS MAY BE USED ON THE EXTERIOR SURFACE OF OPTIMUM TO ATTAIN REQUIRED COMPACTED DRY DENSITY. OF THE FORMS WHEN INTERNAL VIBRATORS DO NOT PROVIDE ADEQUATE CONSOLIDATION OF PART 3 EXECUTION G.PLACE STRUCTURAL FILL IN MAXIMUM OF 8 INCH LOOSE LIFTS. COMPACT EACH LIFT TO HAVE THE CONCRETE. DESIGN PARAMETERS A MINIMUM 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. 3.1 CONCRETE FORMWORK E. MAINTAIN RECORDS OF CONCRETE PLACEMENT. RECORD DATE, LOCATION, QUANTITY, AIR 1. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH: 4,500 PSI H.FILL MATERIALS SHOULD NOT BE PLACED ON FROZEN SOILS, ON FROST-HEAVED SOILS, A.ALL FORMS SHALL BE STRAIGHT AND PLUMB, RIGID, AND MORTAR TIGHT. ALL FORMS SHALL TEMPERATURE, AND TEST SAMPLES TAKEN. ALSO KEEP DUPLICATE RECORDS. 2. MINIMUM YIELD STRENGTH OF REINFORCING BAR: 60 KSI BE BRACED, TIED AND SUPPORTED SUFFICIENTLY TO MAINTAIN THEIR REQUIRED POSITION AND/OR ON EXCESSIVELY WET SOILS. BORROW FILL MATERIALS SHOULD NOT CONTAIN FROZEN F. DO NOT INTERRUPT SUCCESSIVE PLACEMENT TO PREVENT COLD JOINTS FROM FORMING. 3. ALLOWABLE SOIL BEARING CAPACITY: 2,500 PSF PER "SOIL ERT AND THERMAL CONDUCTIVITY DURING AND AFTER THE PLACEMENT OF THE CONCRETE. EARTH FORMS MAY BE USED IN MATERIALS AT THE TIME OF PLACEMENT, AND ALL FROZEN OR FROST-HEAVED SOILS SHOULD TESTING SUMMARY CLEARVIEW SOLAR PROJECT" (HEREINAFTER "GEOTECHNICAL REPORT") 3.5 FINISH OF FORMED SURFACES CONSTRUCTING FOUNDATIONS WHEN SOIL AT THE SITE IS STIFF. BE REMOVED PRIOR TO PLACEMENT OF ENGINEERED STRUCTURAL FILL OR OTHER FILL SOILS 4. SUBGRADE MODULUS: 100 PCI PER GEOTECHNICAL REPORT AND AGGREGATES. EXCESSIVELY WET SOILS OR AGGREGATES SHOULD BE SCARIFIED, AERATED, B.FORM TIES: USE FACTORY—FABRICATED, ADJUSTABLE—LENGTH REMOVABLE OR SNAPOFF METAL A.DEFECTS: REPAIR FORMED SURFACES BY REMOVING MINOR HONEYCOMBS, PITS GREATER THAN 5. ANTICIPATED GROUNDWATER DEPTH: SEE GEOTECHNICAL REPORT AND MOISTURE CONDITIONED. FORM TIES, DESIGNED TO PREVENT FORM DEFLECTION, AND TO PREVENT SPALLING CONCRETE 1 SQUARE INCH SURFACE AREA OR 1/4 INCH MAXIMUM DEPTH. PROVIDE EDGES 6. FROST DEPTH: 4 FEET I. REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR ADDITIONAL INFORMATION. SURFACE UPON REMOVAL UNLESS OTHERWISE INDICATED. PROVIDE TIES SO THAT PORTIONS PERPENDICULAR TO THE SURFACE AND PATCH WITH NONSHRINK GROUT. PATCH TIE HOLES REMAINING WITHIN CONCRETE AFTER REMOVAL WILL NOT BE WITHIN 1 INCH OF ANY EXPOSED AND DEFECTS WHEN THE FORMS ARE REMOVED. CONCRETE WITH EXTENSIVE HONEYCOMB 3.7 TOLERANCE CONCRETE SURFACE. EXCAVATION, BACKFILL AND COMPACTION INCLUDING EXPOSED STEEL REINFORCEMENT, COLD JOINTS, ENTRAPPED DEBRIS, SEPARATED A. SUBGRADE ELEVATION UPON EXCAVATION: PLUS 0 INCHES OR MINUS 2 INCHES FROM AGGREGATE, OR OTHER DEFECTS, WHICH AFFECT THE SERVICEABILITY OR STRUCTURAL C.PROVIDE OPENINGS IN CONCRETE FORMWORK TO ACCOMMODATE THE INSTALLATION OF PART 1 GENERAL REQUIRED ELEVATION. STRENGTH, WILL BE REJECTED, UNLESS CORRECTION OF DEFECTS IS APPROVED BY THE FIELD EMBEDDED CONDUIT. 1.1 THIS SECTION SPECIFIES THE TECHNICAL AND CONSTRUCTION REQUIREMENTS FOR EXCAVATION, 3.8 TESTING ENGINEER. OBTAIN APPROVAL OF CORRECTIVE ACTION PRIOR TO REPAIR. EXPOSED SURFACES D.TOLERANCES: CONSTRUCT FORMWORK WITHIN THE TOLERANCES SHOWN ON THE FORMWORK BACKFILL, COMPACTION AND GRADING FOR EQUIPMENT PAD FOUNDATIONS. SHALL BE UNIFORM IN APPEARANCE AND FINISHED TO A SMOOTH FORM FINISH UNLESS A.ONE IN-PLACE DENSITY AND ONE MOISTURE TEST SHALL BE PERFORMED FOR EACH LIFT OF OTHERWISE SPECIFIED. 1.2 SUBMITTALS STRUCTURAL FILL. E. PREPARATION OF FORM SURFACES: COAT CONTACT SURFACES OF FORMS WITH A B.ROUGH FORM FINISH: PROVIDE AS-CAST ROUGH FORM FINISH TO FORMED CONCRETE A.BACKFILL: WHEN IMPORTED STRUCTURAL FILL IS USED FOR FOUNDATIONS, SUBMIT B.IN-PLACE DENSITY TEST: ASTM D698, ASTM D2167, ASTM D6938 FORM-COATING COMPOUND BEFORE REINFORCEMENT IS PLACED. DO NOT ALLOW SURFACES THAT ARE TO BE CONCEALED IN FINISH WORK OR BY OTHER CONSTRUCTION, LABORATORY SOIL TEST RESULTS DOCUMENTING FILL PROPERTIES. THIS TEST DATA SHALL FORM-COATING COMPOUND TO COME INTO CONTACT WITH REINFORCEMENT OR WITH CONCRETE C.IN-PLACE MOISTURE TEST: ASTM D6938 UNLESS OTHERWISE INDICATED. INCLUDE MOISTURE-DENSITY RELATIONSHIP AND PARTICLE SIZE ANALYSIS AND OTHER SURFACES AGAINST WHICH FRESH CONCRETE WILL BE PLACED. INFORMATION NECESSARY TO DEMONSTRATE COMPLIANCE WITH THE MATERIAL REQUIREMENTS. D.MOISTURE DENSITY RELATIONSHIP: ASTM D698, ASTM D4718 C.SMOOTH FORM FINISH: PROVIDE AS-CAST SMOOTH FORM FINISH FOR FORMED CONCRETE F. REMOVAL OF FORMS AND SUPPORTS: AFTER PLACING CONCRETE, FORMS SHALL REMAIN IN SURFACES THAT ARE EXPOSED TO VIEW. PRODUCE SMOOTH FORM FINISH BY SELECTING B.PRODUCT DATA: PROVIDE PRODUCT DATA SHEETS AND SPECIFICATIONS FOR THE POLYSTYRENE E. PARTICLE SIZE ANALYSIS: ASTM D6913 PLACE AFTER COMPLETION OF CONCRETE PLACEMENTS FOR ENOUGH TIME TO PREVENT FORM MATERIAL TO IMPART A SMOOTH. HARD, UNIFORM TEXTURE AND ARRANGING THEM INSULATION IF UTILIZED. CONCRETE DAMAGE DURING FORM REMOVAL. ORDERLY AND SYMMETRICALLY WITH A MINIMUM OF SEAMS. REPAIR AND PATCH DEFECTIVE C.EXCAVATION PROTECTION PLAN: DESCRIBE SHEETING, AND BRACING MATERIALS AND G.INSPECT AND CHECK THE FORMWORK BEFORE THE REINFORCING STEEL IS PLACED TO AREAS WITH FINS OR OTHER PROJECTIONS COMPLETELY REMOVED AND SMOOTHED. CAST-IN-PLACE STRUCTURAL CONCRETE INSTALLATION IF REQUIRED TO PROTECT EXCAVATIONS AND ADJACENT STRUCTURES AND CONFIRM THAT THE DIMENSIONS AND LOCATION OF THE CONCRETE FOUNDATIONS WILL 3.6 FOUNDATION TOP FINISH PROPERTY INCLUDING STRUCTURAL CALCULATIONS TO SUPPORT PLAN FOR EXCAVATIONS PART 1 GENERAL CONFORM TO THE FOUNDATION DESIGN DRAWINGS. GREATER THAN 4.0 FEET IN DEPTH. EXCAVATION PROTECTION PLAN SHALL COMPLY TO 29 A.PLACE, CONSOLIDATE, AND IMMEDIATELY STRIKE OFF CONCRETE TO OBTAIN PROPER CONTOUR, 1.1 THIS SECTION SPECIFIES TECHNICAL AND CONSTRUCTION REQUIREMENTS FOR FORM WORK, CFR PART 1926, OSHA STANDARD AND BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED 3.2 PLACING REINFORCEMENT AND EMBEDDED ITEMS GRADE, AND ELEVATION BEFORE BLEEDWATER APPEARS. PERMIT CONCRETE TO ATTAIN A SET CAST-IN-PLACE CONCRETE, AND REINFORCING STEEL IN THE STATE OF OHIO. A.PROVIDE BARS, WIRE FABRIC, WIRE TIES, SUPPORTS, AND OTHER DEVICES NECESSARY TO SUFFICIENT FOR FLOATING AND SUPPORTING THE WEIGHT OF THE FINISHER AND EQUIPMENT. 1.2 QUALIFICATIONS IF BLEEDWATER IS PRESENT PRIOR TO FLOATING THE SURFACE, DRAG THE EXCESS WATER OFF D.PROVIDE FIELD COMPACTION TEST REPORTS FOR THE SUBGRADE AND STRUCTURAL FILL INSTALL AND SECURE REINFORCEMENT. REINFORCEMENT SHALL NOT HAVE SCALE, OIL, GREASE, CLAY, OR FOREIGN SUBSTANCES THAT WOULD REDUCE THE BOND. RUSTING OF OR REMOVE BY ABSORPTION WITH POROUS MATERIALS. DO NOT USE DRY CEMENT TO A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS PLACED BELOW AND ADJACENT TO THE FOUNDATION. SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE. REINFORCEMENT IS A BASIS OF REJECTION IF THE EFFECTIVE CROSS-SECTIONAL AREA OR THE ABSORB BLEEDWATER. E. SUBGRADE INSPECTION REPORT FOR EACH EQUIPMENT FOUNDATION. A QUALIFIED NOMINAL WEIGHT PER UNIT LENGTH HAS BEEN REDUCED. REMOVE LOOSE RUST PRIOR TO B. TROWEL FINISH: APPLY TROWEL FINISH TO TOP SURFACE OF THE FOUNDATION, UNLESS THIRD-PARTY REPRESENTATIVE SHALL INSPECT AND PERFORM COMPACTION TESTING IN THE PLACING STEEL. TACK WELDING IS PROHIBITED FOR ALL REINFORCEMENT SHOWN ON OTHERWISE INDICATED, IN THE DEIGN DRAWINGS. AFTER FLOATING, BEGIN FIRST TROWEL BASE OF EACH FOUNDATION EXCAVATION PRIOR TO PLACING ANY STRUCTURAL FILL. THE A.CONCRETE MIX DESIGN: SUBMIT 14 DAYS PRIOR TO PLACEMENT OF CONCRETE. SUBMIT STRUCTURAL DRAWINGS. OPERATION USING POWER TROWEL OR USING MANUAL LABOR. BEGIN FINAL TROWELING WHEN QUALIFIED THIRD-PARTY REPRESENTATIVE SHALL DOCUMENT WITH PHOTOS AND WRITTEN SEPARATE MIX DESIGNS WHENEVER SPECIAL ADMIXTURES ARE REQUIRED. B.ALL HOOKS IN REINFORCING STEEL SHALL BE STANDARD 90-DEGREE HOOKS. SURFACE PRODUCES RINGING SOUND AS TROWEL IS MOVED OVER SURFACE. CONSOLIDATE NARRATIVE THE TYPE AND CHARACTER OF THE EXPOSED EARTH AND TESTING RESULTS. THE B. PRODUCT DATA FOR ADMIXTURE, POZZOLAN, AND CURING MEMBRANE. CONCRETE SURFACE BY FINAL HAND TROWELING OPERATION, FREE OF TROWEL MARKS, REPORT SHOULD ASSESS THE ALLOWABLE BEARING CAPACITY AND VERIFY THAT IT MEETS OR C.FOR #5 AND SMALLER BARS, STANDARD 90-DEGREE STIRRUP HOOKS WITH A CONTINUOUS UNIFORM IN TEXTURE AND APPEARANCE. AFTER TROWELING OPERATION, USE SOFT-BRISTLED EXCEEDS 2500 PSF. EACH INSPECTION REPORT SHALL BE SIGNED BY THE QUALIFIED C.PRODUCT DATA FOR CONTROL JOINT BACKER ROD AND JOINT SEALANT. PERPENDICULAR BAR (#4 MINIMUM) INSTALLED INSIDE THE CORNER OF ALL HOOKED BARS PUSH BROOM OVER THE FRESHLY TROWELED SURFACE TO OBTAIN A NON-SLIP SURFACE. THIRD-PARTY REPRESENTATIVE, PROFESSIONAL ENGINEER, AND PCL REPRESENTATIVE AND D.COLD AND HOT WEATHER CONCRETE PLACEMENT AND PROTECTION PLAN. MAY BE USED IN LIEU OF STANDARD 90 DEGREE HOOKS. THE PRIMARY SLAB REINFORCING FORWARDED TO THE PROFESSIONAL ENGINEER FOR RECORD. 3.7 CURING AND PROTECTION MAY BE USED FOR THE CONTINUOUS PERPENDICULAR BARS. E. REINFORCING STEEL FABRICATION AND PLACEMENT DRAWINGS. A.CURE AND PROTECT CONCRETE FROM DAMAGING ACTIONS BY SUN, RAIN, WIND, FLOWING D.PLACE REINFORCEMENT AND SECURE WITH GALVANIZED OR NON-CORRODIBLE CHAIRS, F. EQUIPMENT FOUNDATION COORDINATED OPENINGS AND PENETRATIONS DRAWING. WATER, MECHANICAL DAMAGE AND PREMATURE DRYING FOR NOT LESS THAN SEVEN PART 2 PRODUCTS SPACERS, OR METAL HANGERS. FOR SUPPORTING REINFORCEMENT ON THE GROUND, USE G.CERTIFIED MILL REPORTS OF REINFORCING STEEL, CONFIRMING THE GRADE AND STRENGTH OF CONSECUTIVE DAYS AFTER PLACEMENT IN ACCORDANCE WITH ACI 301. BEGIN CURING FORMED CONCRETE OR OTHER NON-CORRODIBLE MATERIAL, HAVING A COMPRESSIVE STRENGTH EQUAL 2.1 STRUCTURAL FILL SURFACES IMMEDIATELY FOLLOWING FORM REMOVAL. AVOID DAMAGE TO CONCRETE FROM REINFORCING STEEL PROVIDED ON THE PROJECT. TO OR GREATER THAN THE CONCRETE BEING PLACED. ACCURATELY POSITION, SUPPORT AND VIBRATION CREATED BY ANY ACTIVITY RESULTING IN GROUND VIBRATIONS. DO NOT ALLOW A. THE IMPORTED STRUCTURAL FILL MATERIAL SHALL BE CLEAN DENSE GRADED AGGREGATE FREE SECURE REINFORCEMENT AGAINST MOVEMENT BY FORMWORK, CONSTRUCTION, OR CONCRETE H.BATCH TICKETS: SUBMIT COPIES OF THE BATCH TICKET FOR EACH LOAD OF CONCRETE. OF CONTAMINANTS MEETING THE REQUIREMENTS OF THE STATE OF OHIO DEPARTMENT OF CONCRETE TO DRY OUT FROM TIME OF PLACEMENT UNTIL THE EXPIRATION OF THE SPECIFIED PLACEMENT OPERATIONS. I. CONCRETE FIELD TEST RESULTS: SUBMIT SLUMP, AIR CONTENT, AND TEMPERATURE TEST TRANSPORTATION STANDARD SPECIFICATIONS FOR DENSE GRADED CRUSHED STONE FOR E. PLACE REINFORCEMENT TO MEET MINIMUM REBAR COVER FOR REINFORCEMENT PROTECTION, SUB-BASE PER DIVISION III. SECTION M2.01.7. RESULTS FOR CONCRETE USED FOR THE FOUNDATIONS. B.IF FORMS ARE REMOVED PRIOR TO THE EXPIRATION OF THE CURING PERIOD, PROVIDE SPACING AND PLACEMENT REQUIREMENTS SPECIFIED ON DESIGN DRAWINGS. 2.2 STANDARD FILL J. CONCRETE COMPRESSION TEST RESULTS: SUBMIT COMPRESSION TEST RESULTS FOR ANOTHER CURING PROCEDURE SPECIFIED HEREIN FOR THE REMAINING PORTION OF THE F. SPLICING: LOCATE REINFORCEMENT SPLICES AS INDICATED ON THE PLACEMENT DRAWINGS. CONCRETE USED FOR THE FOUNDATION. CURING PERIOD FOR EXPOSED SURFACES AFTER REMOVAL OF FORM. PROVIDE MOIST CURING A. STANDARD FILL WILL CONSIST OF SATISFACTORY SOILS: ASTM D2487 SOIL CLASSIFICATION REBAR SPLICE SHALL BE ALTERNATED TO PREVENT WEAK PLANES. SPLICES SHALL BE CLASS B FOR THOSE AREAS RECEIVING LIQUID CHEMICAL SEALER-HARDENER OR EPOXY COATING. 1.4 QUALITY ASSURANCE GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; TENSION LAP SPLICE LENGTHS CALCULATED IN ACCORDANCE WITH ACI 318. FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, C.MOIST CURING: COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING A.PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 318 AND ACI 301. FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER. UNSATISFACTORY SOILS: PERIOD. EXPOSED HORIZONTAL CONCRETE SURFACES MAY BE COVERED WITH SAND OR OTHER B.REVIEW CONCRETE SUPPLIER BATCH PLANT TO ASSURE CAPABILITY OF BATCH PLANT TO ASTM D2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH, AND PT, OR A APPROVED MATERIAL AND KEPT WET FOR THE REQUIRED PERIOD. KEEP WOOD FORMS 1. MAKE PROVISIONS FOR CONDUIT PENETRATIONS SPECIFIED ON ELECTRICAL DRAWINGS. PRODUCE CONCRETE MEETING THE REQUIREMENTS STATED IN THE SPECIFICATION. COMBINATION OF THESE GROUP SYMBOLS. PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SUFFICIENTLY WET AT ALL TIMES TO PREVENT THE FORMS FROM SEPARATING AT THE JOINTS 2. DO NOT EMBED WOOD OR UNCOATED ALUMINUM IN CONCRETE. AND THE CONCRETE FROM DRYING. SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS. PART 2 PRODUCTS 3. SECURELY ANCHOR EMBEDDED ITEMS IN CORRECT LOCATION AND ALIGNMENT PRIOR TO PLACING CONCRETE. 2.3 TOP SOIL MATERIALS 2.1 FORM MATERIALS D. MEMBRANE CURING: CONCRETE SURFACES TO RECEIVE MEMBRANE CURING SHALL BE TREATED H.EXAMINATION OF REINFORCEMENT: VERIFY REQUIREMENTS FOR CONCRETE COVER OVER WITH A CURING COMPOUND AS SPECIFIED OR OTHERWISE APPROVED. APPLY THE CURING A.STRIPPED SOIL DURING EXCAVATION SHALL BE STOCKPILED, SALVAGED AND REUSED. A.FORMS FOR EXPOSED FINISH CONCRETE: PROVIDE CONTINUOUS, STRAIGHT, SMOOTH EXPOSED REINFORCEMENT. VERIFY REINFORCEMENT AND OTHER ITEMS TO BE CAST INTO CONCRETE ARE COMPOUND IN STRICT ACCORDANCE WITH THE DIRECTIONS OF THE MANUFACTURER OF THE SURFACES. FURNISH IN LARGEST PRACTICAL SIZES TO MINIMIZE NUMBER OF JOINTS. ACCURATELY PLACED, POSITIONED SECURELY, AND WILL NOT INTERFERE WITH PLACING PROVIDE FORM MATERIAL WITH SUFFICIENT THICKNESS TO WITHSTAND PRESSURE OF NEWLY CONCRETE. NOTIFY THE PCL REPRESENTATIVE AFTER PLACEMENT OF REINFORCING STEEL IN PART 3 EXECUTION E. COLD WEATHER: PROTECT CONCRETE BY PROVIDING ADEQUATE COVER AND HEATING SOURCE PLACED CONCRETE WITHOUT VISIBLE BOW OR DEFLECTION. FORMS, BUT PRIOR TO PLACING CONCRETE. SCHEDULE CONCRETE PLACEMENT TO PERMIT TO MAINTAIN CONCRETE TEMPERATURE SPECIFIED IN ACI 306.1 OR AS APPROVED BY THE PCL 3.1 PREPARATION B.FORM COATINGS: PROVIDE COMMERCIAL FORMULATION FORM-COATING COMPOUNDS THAT WILL FORMWORK INSPECTION BY THE PCL REPRESENTATIVE BEFORE PLACING CONCRETE. NOT BOND WITH, STAIN NOR ADVERSELY AFFECT CONCRETE SURFACES, AND WILL NOT IMPAIR A.CONTACT LOCAL UTILITY LINE LOCATION SERVICE, IF AVAILABLE, BEFORE PERFORMING WORK. 3.3 MIXING AND TRANSPORTING CONCRETE F. HOT WEATHER: KEEP THE CONCRETE SURFACES BELOW 85 DEGREES F FOR THE CURING SUBSEQUENT TREATMENTS. B.IDENTIFY REQUIRED LINES, LEVELS, CONTOURS, AND DATUM. A.HAND-MIXED CONCRETE SHALL NOT BE ALLOWED FOR ANY PORTION OF THE WORK. PERIOD. PROVIDE WINDBREAKS, SHADING, FOG SPRAYING, SPRINKLING, PONDING, OR WET 2.2 REINFORCING MATERIALS 3.2 CLEARING COVERING, AS REQUIRED, IN ACI 305 OR AS APPROVED BY THE PCL REPRESENTATIVE TO B.CONCRETE SHALL BE DISCHARGED, WHEN THE AIR TEMPERATURE IS LESS THAN 85 DEGREES A. REINFORCING STEEL: ASTM 615, GRADE 60. PREVENT MOISTURE LOSS DURING CURING PERIOD. DOCUMENT CONTROL NUMBER F, WITHIN ONE AND ONE-HALF HOURS FROM THE TIME DRY AGGREGATES ARE LOADED INTO A.REMOVE ALL VEGETATION INCLUDING TREES, STUMPS, ROOTS AND SHRUBS AS NECESSARY TETRA TECH THE TRUCK MIXER. FOR AIR TEMPERATURE ABOVE 85 DEGREES F, PLACE CONCRETE WITHIN 2.3 CONCRETE MATERIALS WITHIN FOUNDATION CONSTRUCTION AREAS. PRELIMINAR 705-2317230200-DWG-S0001-B 60 MINUTES FROM THE TIME AGGREGATES ARE LOADED. B.STRIP EXISTING TOPSOIL TO A DEPTH SPECIFIED BY THE PCL REPRESENTATIVE. STOCKPILE FOR A.PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II. DRAWING C.IF CONCRETE MIX DESIGN CONTAINS SET RETARDING ADMIXTURE, THE LIMIT FOR PLACING REUSE. B.COARSE AGGREGATE: COARSE AGGREGATE SHALL CONFORM TO ASTM C33. MAXIMUM COARSE THE CONTENT OF THIS DOCUMENT IS NOT INTENDED FOR THE USE OF, NOR IS IT INTENDED TO BE RELIE CONCRETE MAY REMAIN AT 90 MINUTES PROVIDED SLUMP REQUIREMENTS CAN BE MET. 3.3 EXCAVATION AGGREGATE SIZE SHALL BE 1.5 INCHES AND SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL JPON BY ANY PERSON. FIRM OR CORPORATION OTHER THAN THE CLIENT AND TETRA TECH CANADA INC Tetra Tech). TETRA TECH CANADA INC. (Tetra Tech) DENIES ANY LIABILITY WHATSOEVER TO OTHER PARTIES OR STONE. D.FURNISH BATCH TICKET TO THE FIELD ENGINEER WITH EACH BATCH OF CONCRETE BEFORE NOT TO BE A. PROVIDE DEWATERING AS REQUIRED TO MAINTAIN GROUNDWATER LEVEL AT LEAST 1 FOOT FOR DAMAGES OR INJURY SUFFERED BY SUCH THIRD PARTY ARISING FROM THE USE OF THIS DOCUMENT BY UNLOADING AT THE SITE. THE BATCH TICKET SHALL CONTAIN THE FOLLOWING INFORMATION C.MIXING WATER: POTABLE WATER HAVING NO PRONOUNCED TASTE OR ODOR, AND CONTAINING BELOW THE BOTTOM OF EXCAVATION. NO SUMPS OR OTHER PUMPING WILL BE PERMITTED **USED FOR** THEM, WITHOUT THE EXPRESSED WRITTEN AUTHORITY OF TETRA TECH CANADA INC. (Tetra Tech) AND OUR CONCERNING THE CONCRETE: NO DELETERIOUS MATERIALS SHALL BE USED FOR MIXING CONCRETE. CLIENT. THIS DOCUMENT IS SUBJECT TO FURTHER RESTRICTIONS IMPOSED BY THE CONTRACT BETWEEN WITHIN THE FOUNDATION FOOTPRINT. CONSTRUCTION THE CLIENT AND TETRA TECH CANADA INC. (Tetra Tech) AND THESE PARTIES PERMISSION MUST BE SOUGHT 1. NAME OF READY-MIX CONCRETE COMPANY D.AIR-ENTRAINING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C260 AND SHALL NOT B.EXCAVATE SUBGRADE MATERIAL FROM THE REQUIRED AREAS TO THE LINES AND GRADES EGARDING THIS DOCUMENT IN ALL OTHER CIRCUMSTANCES. SITE OR AREA SCALE: AS SHOWN CLEARVIEW SOLAR DESIGNED: J. WAKE 5/05/202 DRAWN: I. WAKE )5/05/202 OVERALL STRUCTURAL SITE STRUCTURAL NOTES CHECKED: M. ROBINSON 105/05/202 ISSUED FOR 90% REVIEW JRW | JRW | MFR | MFR | 05/05/20: PCL SOLAR CONSTRUCTORS USA ISSUED FOR 60% REVIEW JRW | JRW | MFR | MFR 03/17/2023 2322 WEST GRAND PKWY N, SUITE 200 APPROVED: M. ROBINSON | 05/05/2023

REVISION DESCRIPTION

KATY, TEXAS 77449

PHONE: (647) 401-8379

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REFERENCE DRAWINGS

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3.8 CONTROL JOINTS EQUIPMENT, INCLUDING HAMMERS, CAP BLOCK, CUSHION AND OTHER REQUIRED ITEMS, AND SUBMIT PART 3 EXECUTION COMPLETE DESCRIPTIONS OF THE PROPOSED EQUIPMENT AND PROPOSED DRIVING RESISTANCE A. JOINTS MUST BE 1/8-INCH WIDE AND FORMED BY INSERTING HAND-PRESSED FIBERBOARD STRIP 3.1 ALL MATERIAL IS TO BE DELIVERED TO THE WORK SITE IN ORIGINAL FACTORY PACKAGING TO CRITERIA IN THE PILE INSTALLATION PLAN. AVOID DAMAGE TO THE FINISH. INTO FRESH CONCRETE UNTIL TOP SURFACE OF STRIP IS FLUSH WITH SLAB SURFACE. AFTER PART 3 EXECUTION CONCRETE HAS CURED FOR AT LEAST 7 DAYS, THE CONTRACTOR MUST REMOVE INSERTS AND 3.2 UPON DELIVERY TO THE WORK SITE, PROTECT ALL COMPONENTS FROM THE ELEMENTS BY A CLEAN GROOVE OF FOREIGN MATTER AND LOOSE PARTICLES.GROOVE THEN MUST BE PREPARED 3.1 SUBMIT PILE INSTALLATION PLAN INCLUDING INFORMATION ON THE TYPE OF EQUIPMENT SHELTER OR OTHER COVERING. FOR JOINT SEALANT BY SAW CUTTING THE JOINT TO THE WIDTH AND DEPTH REQUIRED FOR THE (INCLUDING VERIFICATION OF THE SPECIFIED HAMMER ENERGY REQUIRED) PROPOSED TO BE USED. SEALANT AND BACKER ROD. THOROUGHLY CLEAN, IMMEDIATELY FOLLOWING THE SAWING OPERATION, 3.3 INSPECT THE WORK AREA PRIOR TO INSTALLATION. IF WORK AREA CONDITIONS ARE UNSATISFACTORY, INSTALLATION SHALL NOT PROCEED UNTIL SATISFACTORY CORRECTIONS ARE COMPLETED. PROPOSED SEQUENCE OF DRIVING, AND DETAILS OF ALL PILE DRIVING EQUIPMENT AND ACCESSORIES. PROPOSED METHODS OF OPERATION, TEST PILE AND PRODUCTION PILE DRIVING PLANS INCLUDING THE JOINT OPENING USING A WATER JET TO REMOVE ALL SAW CUTTINGS AND DEBRIS. B.ONCE DRY, SEAL JOINTS IMMEDIATELY FOLLOWING THE PLACEMENT OF THE BACKER ROD. INSTALL USE THE SAME TYPE AND SIZE EQUIPMENT AS FOR THE TEST PILES. JOINT SEALANT IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS AND SPECIFICATIONS. OPEN 3.2 TEST PILE DRIVING A.INSTALL BY A FULLY TRAINED MANUFACTURER AUTHORIZED INSTALLER. JOINTS, THAT CANNOT BE SEALED UNDER THE CONDITIONS SPECIFIED, OR WHEN RAIN INTERRUPTS SEALING OPERATIONS SHALL BE RECLEANED AND ALLOWED TO DRY PRIOR TO INSTALLING THE A. TEST PILE DRIVING SHALL BE COMPLETED USING THE SAME TYPE AND ENERGY HAMMER TO BE B.SET STRUT SYSTEM COMPONENTS INTO FINAL POSITION TRUE TO LINE. LEVEL AND PLUMB. IN SEALANT. USED IN PRODUCTION PILE DRIVING. ACCORDANCE WITH APPROVED DRAWINGS. 3.9 PATCHING B.DIAL GAGES AND LOAD CELLS SHALL BE CALIBRATED AND CERTIFICATES OF CALIBRATION INCLUDED C.ANCHOR MATERIAL FIRMLY IN PLACE, AND TIGHTEN ALL CONNECTIONS TO THEIR RECOMMENDED WITH THE TEST PILE PLAN AS PART OF THE PILE INSTALLATION PLAN SUBMITTAL. TORQUES. A. NOTIFY THE PCL REPRESENTATIVE TO INSPECT CONCRETE SURFACES IMMEDIATELY UPON REMOVAL OF FORMS. C.TEST PILES SHALL BE OF THE SAME SIZE, AND TYPE, INCLUDING PROTECTIVE COATINGS AS THE 3.5 CLEANUP PILES SPECIFIED ON THE STRUCTURAL DRAWINGS. B.EXCESSIVE HONEYCOMB OR EMBEDDED DEBRIS IN CONCRETE IS NOT ACCEPTABLE. NOTIFY THE A.UPON COMPLETION OF THIS SECTION OF WORK, REMOVE ALL PROTECTIVE WRAPS AND DEBRIS. PCL REPRESENTATIVE UPON DISCOVERY. D. TEST PILES MAY BE USED AS PRODUCTION PILES IF THEY MEET THE LOAD TEST REQUIREMENTS REPAIR ANY DAMAGE DUE TO INSTALLATION. WITHOUT FAILURE OR PERMANENT DEFORMATION. C.PATCH IMPERFECTIONS AS DIRECTED BY THE PCL REPRESENTATIVE. E. TESTING SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER AND DURING THE ENTIRE 3.10 TESTING A.DURING INSTALLATION AND UPON COMPLETION, PROTECT THE WORK FROM DAMAGE. TIME PILES ARE INITIALLY DRIVEN OR REDRIVEN AND DURING PILE RESTRIKE TESTING. A.PROVIDE THE NECESSARY TESTING AND MONITORING SERVICES NEEDED TO CONTROL OR MONITOR F. TEST PILES OF EACH TYPE SHALL BE DRIVEN TO THE SPECIFIED MINIMUM DEPTH AND TESTED IN THE PRODUCTION, TRANSPORTATION, PLACEMENT, PROTECTION, CURING OF THE CONCRETE. EACH MOTOR BLOCK FOR VERIFICATION OF LATERAL AND AXIAL CAPACITY (TABLE 1/PV-C.11.02) SAMPLING AND TESTING FOR QUALITY CONTROL DURING PLACEMENT SHALL INCLUDE THE PRIOR TO INSTALLATION OF PRODUCTION PILES. IN EACH MOTOR BLOCK CONDUCT THE MINIMUM AT FOLLOWING: 1. THIS SECTION SPECIFIES THE REQUIREMENTS FOR SUBMITTALS LISTED IN THE EXCAVATION. REPRESENTATIVE LOCATIONS: 1. PILE AXIAL TENSILE CAPACITY IN ACCORDANCE WITH ASTM D3689. BACKFILL AND COMPACTION, CAST-IN-PLACE STRUCTURAL CONCRETE AND UNISTRUT FRAMING 1. SAMPLING OF FRESH CONCRETE: OBTAIN CONCRETE SAMPLES FOR TESTING IN ACCORDANCE PROCEDURE A: MINIMUM 3 PILES OF EACH TYPE PER MOTOR BLOCK. LOAD INCREMENTS MAY BE WITH ASTM C172 UP TO 10% OF THE TEST LOAD PROVIDED IN TABLE 1.2. LATERAL LOAD CAPACITY IN ACCORDANCE 2. SUBMIT ONE ELECTRONIC COPY OF THE SUBMITTALS SPECIFIED TO THE ENGINEER OF RECORD. 2. SLUMP: TEST THE SLUMP OF THE SAMPLED CONCRETE IN ACCORDANCE WITH ASTM C143. WITH ASTM D3966: MINIMUM 3 PILES FOR EACH PILE TYPE PER MOTOR BLOCK. USE FIVE (5) THE MAXIMUM SLUMP MAY BE INCREASED AS SPECIFIED WITH THE ADDITION OF AN APPROVED 3. THE ENGINEER OF RECORD WILL REVIEW THE SUBMITTALS FOR CONFORMANCE AND COMPLIANCE EQUAL LOADING INCREMENTS FOR THE TEST LOAD PROVIDED IN TABLE 1. ADMIXTURE PROVIDED THAT THE WATER-CEMENT RATIO IS NOT EXCEEDED. PERFORM TESTS AT WITH THE DESIGN DRAWINGS AND TECHNICAL SPECIFICATIONS. G.LOAD INCREMENTS SHOULD BE CONDUCTED IN GENERAL ACCORDANCE WITH THE REFERENCED ASTM COMMENCEMENT OF CONCRETE PLACEMENT, WHEN TEST CYLINDERS ARE MADE, AND FOR EACH PROCEDURES. HOLD EACH LOAD INCREMENT FOR A MINIMUM OF ONE (1) MINUTE AND THE LAST BATCH (MINIMUM) OR EVERY 150 CUBIC YARDS (MAXIMUM) OF CONCRETE. INCREMENT (MAX LOAD) FOR A MINIMUM OF FOUR (4) MINUTES. 3. AIR CONTENT: TEST AIR CONTENT OF THE SAMPLED CONCRETE IN ACCORDANCE WITH ASTM C231. TEST CONCRETE FOR AIR CONTENT AT THE SAME FREQUENCY AS SPECIFIED FOR SLUMP 1. THIRD—PARTY REPRESENTATIVE — REPRESENTATIVE OF THE CLIENT OR OWNER H.CONDUCT TEST PILES AT LEAST 200 FEET APART. 2. ENGINEER OF RECORD — PROFESSIONAL ENGINEER WHO HAS SIGNED AND SEALED THE DESIGN I. PERFORM AXIAL TESTING PRIOR TO LATERAL TESTING. 4. CONCRETE TEMPERATURE: TEST WHEN AIR TEMPERATURE IS BELOW 40 DEGREES F OR WHEN DRAWINGS ABOVE 80 DEGREES F. TEST CONCRETE DELIVERED AND WHILE IN THE FORMS DURING CURING J. LATERAL LOADS TO BE RESISTED BY THE STRONG AXIS OF THE PILE FOR THE TEST. 3. PCL REPRESENTATIVE - EMPLOYEE OF PCL 4. GEOTECHNICAL ENGINEER - PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO K.RECORD PILE DEFLECTIONS AT EACH LOAD INCREMENT. 5. COMPRESSION TEST SPECIMENS: MAKE FIVE TEST SIX INCH DIAMETER CYLINDERS FOR EACH SET COMPETENT IN THE PRACTICES OF GEOTECHNICAL ENGINEERING. OF TESTS IN ACCORDANCE WITH ASTM C31. TAKE PRECAUTIONS TO PREVENT EVAPORATION AND L. UNLOAD THE PILE AND ALLOW THE PILE TO "REBOUND" AFTER LOAD DEFLECTION IS RECORDED. LOSS OF WATER FROM THE SPECIMEN. LABORATORY SHALL PERFORM COMPRESSION TESTING OF CONCRETE CYLINDERS IN ACCORDANCE WITH ASTM C39. TEST TWO CYLINDERS AT 7 DAYS, TWO M.TEST EACH PILE TO THE LOAD CAPACITY INDICATED IN TABLE 1 AND VERIFY DEFLECTIONS STRUCTURAL STEEL PILES CYLINDERS AT 28 DAYS, AND HOLD ONE CYLINDER IN RESERVE. SAMPLES FOR STRENGTH UNDERREQUIRED LOADS ARE LESS THAN:1. TENSILE: 0.25 IN.2. LATERAL: 0.5 IN. AT GROUND TESTS SHALL BE TAKEN FOR EACH FOUNDATION OR 100 CUBIC YARDS OR FRACTION THEREOF, SURFACE; 3 IN. AT THE TOP OF PILE G.RECORD ENERGY AND PILE DRIVING RESISTANCE FOR EACH OF EACH CONCRETE CLASS PLACED. STRENGTH LEVEL OF CONCRETE SHALL BE CONSIDERED TEST PILES DURING DRIVING.1. FOR RAPID IMPACT AND VIBRATORY HAMMERS, RECORD HAMMER SATISFACTORY IF BOTH THE FOLLOWING REQUIREMENTS ARE MET: 1.1 THIS SECTION SPECIFIES THE TECHNICAL AND CONSTRUCTION REQUIREMENTS FOR THE ENERGY AND DRIVE TIME PERFOOT2. FOR NORMAL IMPACT HAMMERS, RECORD HAMMER ENERGY STRUCTURAL STEEL PILES TO SUPPORT THE PV SUPPORT STRUCTURE, CAB SYSTEM AND AUXILIARY a. NO INDIVIDUAL TEST RESULT IS 500 PSI LESS THAN THE 7-DAY OR 28-DAY STRENGTH AS AND BLOWS PER FOOT.3. DEFINE MINIMUM REFUSAL RESISTANCE FOR LAST FOOT OF ELECTRICAL EQUIPMENT. APPLICABLE. PENETRATION.4. PROVIDE PILE TESTING REPORTS IN ACCORDANCE WITH THE ASTM D3689 AND ASTM D3966.3.3 INSTALL EACH PILE AS ONE (1) CONTINUOUS MEMBER.3.4 DO NOT BEGIN PILE 1.2 PERFORM ALL WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) b. THE AVERAGE OF THE COMPRESSIVE TESTS EQUALS OR EXCEEDS THE 7-DAY OR 28-DAY INSTALLATION UNTIL THE EARTHWORK IN THE AREA WHERE PILES ARE TO BEINSTALLED HAS BEEN "STRUCTURAL STEEL WELDING CODE", ANSI/AWS D1.1-LATEST EDITION AND AISC REQUIREMENTS; STRENGTH AS APPLICABLE COMPLETED. REPLACE OR REPAIR STRUCTURAL STEEL THAT IS DAMAGED DURING WELDING IN A MANNER THAT IS 6. IN THE EVENT OF UNSATISFACTORY COMPRESSIVE TEST RESULTS, NOTIFY A THIRD-PARTY ACCEPTABLE TO THE ENGINEER OF RECORD AND SKID MANUFACTURER. 3.5 PILE PLACEMENT TOLERANCES: REPRESENTATIVE FOR RESOLUTION. 1.3 SHOP WELDING TO BE DONE IN AN APPROVED FABRICATORS SHOP PER OHIO 2017 3.11 DEFECTIVE CONCRETE A.REFER TO GAMECHANGE INSTALLATION MANUAL. CONSTRUCTION CODE, CHAPTER 17. A.DEFECTIVE CONCRETE: CONCRETE NOT CONFORMING TO REQUIRED DETAILS, DIMENSIONS, 3.6 COMPLETE NECESSARY EXCAVATION AND FURNISH LINES AND LEVELS AS REQUIRED TO INSTALL 1.4 WELDERS ARE TO HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TOLERANCES OR SPECIFIED REQUIREMENTS. PILES AT THEIR INDICATED LOCATIONS. TESTS. THE ENGINEER OF RECORD AND AES REPRESENTATIVE MAY REQUEST SUCH DOCUMENTATION AT B. REPAIR OR REPLACEMENT OF DEFECTIVE CONCRETE WILL BE DETERMINED BY A THIRD-PARTY 3.7 ACCURATELY LOCATE AND INSTALL PILES BY SUCH METHODS AND EQUIPMENT SO AS NOT TO ANY TIME DURING THE PROJECT. REPRESENTATIVE. IMPAIR THE PILE STRENGTH OR DAMAGE PILES OR ADJACENT CONSTRUCTION. PILE REFUSAL MAY BEEN 1.5 DO NOT USE GAS CUTTING TORCHES TO CORRECT FABRICATION ERRORS WITHOUT APPROVAL OF COUNTERED IN WHICH CASE PRE-DRILLING AND BACKFILLING PILE HOLES WITH CONCRETE MAY BE 3.12 TOLERANCE THE ENGINEER OF RECORD. REQUIRED TO THE MINIMUM EMBEDMENT DEPTH SHOWN ON E/PV-C.11.04. COORDINATE WITH ENGINEER A.PLACE CONCRETE IN ACCORDANCE WITH THE FOLLOWING DIMENSIONAL TOLERANCES. OF RECORD IF REFUSAL IS ENCOUNTERED TO CONFIRM THE CORRECTIVE ACTIONS AND CONCRETE 1.6 PROVIDE CORROSION PROTECTION COATING FOR ALL STRUCTURAL STEEL (INCLUDING BOLTS AND SPECIFICATIONS. SUBMIT MIX DESIGN FOR REVIEW. 1. REINFORCING PLAN SPACING: PLUS OR MINUS 2 INCHES. OTHER HARDWARE). 3.8 INSTALL PILES TO THE MINIMUM DEPTH INDICATED ON THE DRAWINGS AND THE MINIMUM DRIVING 2. REINFORCING VERTICAL SPACING: PLUS OR MINUS 1 INCH. 1.7 FABRICATION AND ERECTION SHALL COMPLY WITH AISC SPECIFICATIONS, LATEST EDITION. RESISTANCE ESTABLISHED BASED ON TEST PILING. RECORD DRIVING RESISTANCE FOR EACH PILE. 3. CONCRETE CLEAR COVER: MINUS 0 INCHES, PLUS 1 INCH. 1.8 VERIFY ALL DIMENSIONS WITH CIVIL AND ELECTRICAL DRAWINGS, COORDINATE ANY CONFLICTS 3.9 EACH PILE IS TO BE FREE FROM DEFECTS AND DAMAGE DUE TO CONSTRUCTION, 4. FOOTING PLAN DIMENSIONS: MINUS 0 INCHES, PLUS 2 INCHES BEFORE PROCEEDING FABRICATION, DELIVERY, INSTALLATION OR OTHER CAUSES 5. FOOTING THICKNESS: MINUS 0 INCHES, PLUS 2 INCHES. 1.9 SOLAR TRACKING SYSTEM AND ALL OF ITS COMPONENTS INCLUDING ATTACHMENT TO PILES TO BE 3.10 DAMAGED PILES INCLUDE BUT ARE NOT NECESSARILY LIMITED TO PILES BENT, BUCKLED, CRACKED, 6. FOUNDATION DEVIATION FROM LEVEL: 1/16 INCH IN 4 FEET. DESIGNED AND PROVIDED BY GAMECHANGE. BOLT HOLES IN PV SUPPORT PILES TO BE COORDINATED WITH FABRICATION TOLERANCES BEYOND THOSE INDICATED ABOVE OR WITH ANY OTHER DEFECT AS BY CONTRACTOR WITH GAMECHANGE DESIGN DOCUMENTS, AS NECESSARY. DETERMINED BY THE ENGINEER OF RECORD THAT WOULD WEAKEN THE PILE. **UNISTRUT FRAMING** 1.10 SUBMITTALS 3.11 REPAIR ALL DAMAGED CORROSION PROTECTION COATINGS IN ACCORDANCE WITH COATING PART 1 GENERAL SUBMIT THE FOLLOWING SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE MANUFACTURER RECOMMENDATIONS FOR REPAIR MATERIAL SPECIFIED IN PART 2 FOR REPAIR OF HOT DIPPED GALVANIZED SURFACES. PRIOR TO CONSTRUCTION: 1.1 THIS SECTION SPECIFIES THE TECHNICAL AND CONSTRUCTION REQUIREMENTS FOR THE UNISTRUT 3.12 FIELD COAT ALL FIELD WELDS INSTALLED ON SHOP COATED STRUCTURAL STEEL WITH THE SAME A.SHOP DRAWINGS FOR W-SHAPES: DRAWING FOR EACH TYPICAL PILE TO INDICATE SECTION SIZE, (SLOTTED CHANNEL) FRAMING TO SUPPORT PILE MOUNTED ELECTRICAL EQUIPMENT. COATING SYSTEM IN ACCORDANCE WITH THE REPAIR MATERIAL SPECIFIED IN PART 2 FOR REPAIR OF LENGTH, COATING, BOLT HOLES, SHOP CONNECTIONS, AND QUANTITY. 1.2 SUBMITTALS HOT DIPPED GALVANIZED B.W-SHAPE MILL CERTIFICATES SUBMIT THE FOLLOWING SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE 3.13 PROVIDE THE ENGINEER WITH A COPY OF A PILE DRIVING REPORT. KEEP A COMPLETE AND C.PILE INSTALLATION PLAN (TO INCLUDE PILE DRIVING EQUIPMENT) ACCURATE RECORD OF EACH PILE DRIVEN. INDICATE THE: A. ASSEMBLY SHOP DRAWINGS NECESSARY TO INSTALL THE STRUT SYSTEM IN COMPLIANCE WITH THE D.PILE TESTING REPORTS CONTRACT DRAWINGS. A.DATE DRIVEN, E. PRODUCT DATA FOR REPAIR PAINT FOR HOT-DIPPED GALVANIZED SURFACES. B. MANUFACTURERS PRODUCT DATA SHEETS B. PILE LOCATION AND NUMBER, F. PILE DRIVING REPORT C.MANUFACTURER QUALIFICATIONS C.DEPTH DRIVEN, 1.3 QUALITY ASSURANCE G.FABRICATOR QUALIFICATIONS D. DEVIATIONS FROM PILE LOCATION, A. SELECT A MANUFACTURER WITH AT LEAST 10 YEARS EXPERIENCE IN MANUFACTURING STRUT H. WELDER QUALIFICATIONS E.CROSS SECTION SHAPE AND DIMENSIONS, ORIGINAL LENGTH, GROUND ELEVATION, TIP ELEVATION, SYSTEMS. CUT-OFF ELEVATIONS (IF NECESSARY), VERTICAL ALIGNMENT, 1.11 QUALITY ASSURANCE B. THE MANUFACTURER MUST CERTIFY IN WRITING ALL COMPONENTS SUPPLIED HAVE BEEN PRODUCED F. NUMBER OF BLOWS REQUIRED FOR EACH FOOT OF PENETRATION AND NUMBER OF BLOWS FOR A.PILES MUST BE FABRICATED BY AN AISC CERTIFIED STRUCTURAL STEEL FABRICATOR, IN IN ACCORDANCE WITH AN ESTABLISHED QUALITY ASSURANCE PROGRAMS. THE LAST 6 INCHES OF PENETRATION FOR IMPACT HAMMERS AND DRIVE TIME FOR EACH FOOT OF ACCORDANCE WITH AISC 207, CATEGORY BU. SUBMIT AISC STRUCTURAL STEEL FABRICATOR QUALITY PENETRATION FOR RAPID IMPACT AND VIBRATORY HAMMERS. CERTIFICATION C.MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS: G.INCLUDE IN THE RECORD THE BEGINNING AND ENDING TIMES OF EACH OPERATION DURING DRIVING PART 2 PRODUCTS 1. FEDERAL, STATE AND LOCAL CODES OF PILE. 2. AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN OF COLDFORMED 2.1 W-SHAPES STEEL STRUCTURAL MEMBERS 2001 EDITION H.TYPE AND SIZE OF HAMMER USED, RATE OF OPERATION, STROKE OR EQUIVALENT STROKE FOR A.PROVIDE WIDE FLANGE (W) SHAPES, FOR DRIVEN PILES, CONFORMING TO ASTM A992 WITH A YIELD DIESEL HAMMER, TYPE OF DRIVING HELMET, AND TYPE AND DIMENSION OF HAMMER CUSHION (CAP 3. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STRENGTH (Fy) OF 50 KSI. HOT-DIP GALVANIZE ALL PILES PER ASTM A123. (MINIMUM 3.3 MILS BLOCK) AND PILE CUSHION USED. 4. METAL FRAMING MANUFACTURER'S ASSOCIATION (MFMA) COATING THICKNESS) I. RECORD RETAP DATA AND UNUSUAL OCCURRENCES DURING PILE DRIVING SUCH AS REDRIVING, 2.2 STEEL PLATE HEAVING, WEAVING, OBSTRUCTIONS, AND ANY DRIVING INTERRUPTIONS. PART 2 PRODUCTS A.PROVIDE STEEL PLATE CONFORMING TO ASTM A36 WITH A YIELD STRENGTH (Fy) OF 36 KSI. J. PROVIDE A DESCRIPTION OF PILES THAT WERE REJECTED (PILE NUMBER, LOCATION, REASON FOR 2.1 UNISTRUT AND ACCESSORIES HOT-DIPGALVANIZE ALL PLATE PER ASTM A123. (MINIMUM 3.3 MILS COATING THICKNESS) REJECTION). PILES MAY BE REJECTED IF THEY DO NOT MEET THE REQUIRED DRIVING RESISTANCE, A.PROVIDE UNISTRUT OR APPROVED EQUAL STRUT SYSTEM AND COMPONENTS. DO NOT ACHIEVE THE MINIMUM EMBEDMENT, ARE DAMAGED DUE TO INSTALLATION OR OTHER REASON, OR ARE INSTALLED WITH INCORRECT LOCATION OR ORIENTATION. B.PROVIDE GALVANIZED UNISTRUT MEMBERS, BRACKETS, ACCESSORIES, BOLTS, AND NUTS TO A. PROVIDE BOLTS CONFORMING TO ASTM A325, UNLESS NOTED OTHERWISE. HOT-DIP GALVANIZE ALL PREVENT CORROSION 3.14 DRIVE PILES INTO NATIVE SOIL OR COMPACTED FINISHED GRADE WHERE CUT OR FILL IS BOLTS, WASHERS AND NUTS PER ASTM A325 AND A123. REQUIRED. ALL EARTHWORK SHALL BE COMPLETED PRIOR TO INSTALLATION OF ANY PILE FOUNDATION. DOCUMENT CONTROL NUMBER 2.2 STEEL POST 2.4 WELDING ELECTRODEA.PROVIDE AWS A5.1 OR A5.5, E70XX WELDING ELECTRODE. DO NOT PRE-DRILL WITHOUT WRITTEN APPROVAL FROM THE OWNER AND ENGINEER OF RECORD. ΓETRA TECH PRELIMINAR 705-2317230200-DWG-S0001-B A. PROVIDE 3" DIAMETER SCHEDULE 40 (STANDARD) PIPE. HOT DIP GALVANIZE PIPE PER ASTM A123. 2.5 REPAIR PAINT FOR HOT DIPPED GALVANIZED SURFACES 3.15 BRING TO THE ATTENTION OF THE ENGINEER OF RECORD ALL PILES THAT ARE DRIVEN INTO THE DRAWING 2.3 STEEL PLATE GROUND AT A RATE THAT THE PILE DRIVING OPERATOR BELIEVES IS FASTER THAN WHAT IS EXPECTED A.PROVIDE ORGANIC ZINC REPAIR PAINT COMPLYING WITH THE REQUIREMENTS OF ASTM A780 THE CONTENT OF THIS DOCUMENT IS NOT INTENDED FOR THE USE OF, NOR IS IT INTENDED TO BE RELIE BASED ON PREVIOUS PILES FOR THIS PROJECT. PERFORM TESTING OF THESE PILES UNDER THE JPON BY ANY PERSON. FIRM OR CORPORATION OTHER THAN THE CLIENT AND TETRA TECH CANADA INC GALVANIZING REPAIR PAINT IS TO CONTAIN 95% ZINC BY WEIGHT. APPLY THE GALVANIZING REPAIR A.PROVIDE ASTM A36 STEEL PLATE. HOT DIP GALVANIZE PIPE PER ASTM A123. DIRECTION AND DISCRETION OF THE ENGINEER OF RECORD AT THAT TIME. Tetra Tech). TETRA TECH CANADA INC. (Tetra Tech) DENIES ANY LIABILITY WHATSOEVER TO OTHER PARTIES PAINT NO LESS THAN THE COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE NOT TO BE FOR DAMAGES OR INJURY SUFFERED BY SUCH THIRD PARTY ARISING FROM THE USE OF THIS DOCUMENT BY 3.16 ALL PILES ARE TO BE INSTALLED VERTICALLY UNLESS OTHERWISE SPECIFIED. **USED FOR** THEM, WITHOUT THE EXPRESSED WRITTEN AUTHORITY OF TETRA TECH CANADA INC. (Tetra Tech) AND OUR 2.6 PILE DRIVING HAMMERS CLIENT. THIS DOCUMENT IS SUBJECT TO FURTHER RESTRICTIONS IMPOSED BY THE CONTRACT BETWEEN CONSTRUCTION 3.17 PROVIDE PILE INSPECTION PER INSPECTION TABLE 2/PV-C.11.02. A.PROVIDE IMPACT OR VIBRATORY TYPE PILE DRIVING HAMMERS WITH A MINIMUM ENERGY OF 1000 THE CLIENT AND TETRA TECH CANADA INC. (Tetra Tech) AND THESE PARTIES PERMISSION MUST BE SOUGHT EGARDING THIS DOCUMENT IN ALL OTHER CIRCUMSTANCES. JOULES, SUCH AS A VERMEER PD10 OR EQUIVALENT. SELECT THE PROPOSED PILE DRIVING SITE OR AREA SCALE: AS SHOWN DATE CLEARVIEW SOLAR DESIGNED: J. WAKE 5/05/202 DRAWN: I. WAKE 5/05/202 STRUCTURAL NOTES FOUNDATION PLAN CHECKED: M. ROBINSON | 05/05/202 MFR **ISSUED FOR 90% REVIEW** JRW | JRW | MFR | PCL SOLAR CONSTRUCTORS USA **ISSUED FOR 60% REVIEW** JRW | JRW | MFR MFR 03/17/2023 2322 WEST GRAND PKWY N, SUITE 200 APPROVED: M. ROBINSON |05/05/202 KATY, TEXAS 77449 DRAWING NUMBER REV PHONE: (647) 401-8379 BY DESIGN CHECK APPROVED REFERENCE DRAWINGS REFERENCE DRAWINGS REVISION DESCRIPTION DWG. NO. DATE CLIENT APP 705-2317230200-DWG-S0001 SHEET 2 OF 2

X:\PROJECTS\PWR\PCL CLEARVIEW\07 - STRUCTURAL DESIGN\CLEARVIEW S-0001 STRUCTUAL NOTES

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Summary: Correspondence Letter Regarding Compliance with Conditions 2, 8, and 9 electronically filed by Ms. Anna Sanyal on behalf of Clearview Solar, LLC.