ENEL GREEN POWER

ROCHELLE II SOLAR PROJECT

CITY OF ROCHELLE, ILLINOIS

LANDSCAPING PLAN

DEVELOPMENT TEAM

DEVELOPER
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GOVERNING AGENCIES

CITY OF ROCHELLE
815-562-6161
420 NORTH 6TH STREET
ROCHELLE, IL 61068

FLOODPLAIN NOTE

PER THE CURRENT EFFECTIVE FLOOD INSURANCE RATE MAPS FOR THIS AREA, THE PROJECT FLOODPLAIN STATUS IS:

ZONE X - AREA OF MINIMAL FLOOD HAZARD
ZONE AE - SPECIAL FLOOD HAZARD AREA (WITH BASE FLOOD ELEVATION (BFE) OR DEPTH

MAPS REFERENCED: 17141C03483E EFF. 8/17/2016

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FRANCHISE UTILITY (GAS, ELECTRIC, DATA) CONSTRUCTION, REMOVAL, AND RELOCATIONS. ANY FRANCHISE UTILITY INFORMATION ON THESE PLANS IS SHOWN FOR REFERENCE ONLY.

PROJECT NARRATIVE

THE PROPOSED SITE WILL CONSIST OF A SOLAR ARRAY, ASSOCIATED ELECTRICAL EQUIPMENT, RELATED ACCESS DRIVES, PERIMETER FENCE, AND LANDSCAPING, ON 0-PLUS ACRES, IN THE CITY OF ROCHELLE, IL.

REQUIRED PERMITS

AS PER CITY OF ROCHELLE REQUIREMENTS.

LEGAL DESCRIPTION

PART OF THE NORTHEAST QUARTER AND PART OF THE NORTHWEST FRACTIONAL QUARTER OF SECTION 18, TOWNSHIP 40 NORTH, RANGE 2 EAST OF THE THIRD PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE NORTHWEST FRACTIONAL QUARTER OF SAID SECTION 18; THENCE NORTH 88 DEGREES 10 MINUTES 52 SECONDS EAST (GRID BEARING BASED ON THE ILLINOIS WEST STATE PLANE COORDINATE SYSTEM) ALONG THE NORTH LINE OF SAID NORTHWEST FRACTIONAL QUARTER, A DISTANCE OF 417.42 FEET TO THE POINT OF BEGINNING OF THE HEREINAFTER DESCRIBED TRACT OF LAND; THENCE SOUTH 01 DEGREES 37 MINUTES 09 SECONDS EAST PARALLEL WITH THE WEST LINE OF SAID NORTHWEST FRACTIONAL QUARTER, A DISTANCE OF 417.42 FEET; THENCE SOUTH 88 DEGREES 10 MINUTES 52 SECONDS WEST PARALLEL WITH THE NORTH LINE OF SAID NORTHWEST FRACTIONAL QUARTER, A DISTANCE OF 402.42 FEET TO A POINT 15 FEET EAST OF, AS MEASURED PERPENDICULAR TO THE WEST LINE OF SAID NORTHWEST FRACTIONAL QUARTER; THENCE SOUTH 01 DEGREES 37 MINUTES 09 SECONDS EAST PARALLEL WITH SAID WEST LINE, A DISTANCE OF 2206.17 FEET TO THE SOUTH LINE OF SAID NORTHWEST FRACTIONAL QUARTER; THENCE NORTH 88 DEGREES 24 MINUTES 32 SECONDS EAST ALONG SAID SOUTH LINE AND THE SOUTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 18, A DISTANCE OF 1682.46 FEET TO A POINT, SAID POINT BEING 25.00 FEET WEST FROM THE EAST LINE OF THE WEST 13 1/3 RODS OF SAID NORTHEAST QUARTER; THENCE NORTH 01 DEGREES 24 MINUTES 33 SECONDS WEST, PARALLEL WITH THE WEST LINE OF SAID NORTHEAST QUARTER, A DISTANCE OF 1604.20 FEET; THENCE SOUTH 88 DEGREES 10 MINUTES 56 SECONDS WEST, A DISTANCE OF 275.00 FEET; THENCE NORTH 01 DEGREES 24 MINUTES 33 SECONDS WEST PARALLEL WITH THE WEST LINE OF SAID NORTHEAST QUARTER, A DISTANCE OF 1026.02 FEET TO A POINT ON THE NORTH LINE OF THE NORTHWEST FRACTIONAL QUARTER OF SAID SECTION 18, SAID POINT BEING 79.99 FEET WEST OF THE NORTHEAST CORNER OF SAID NORTHWEST FRACTIONAL QUARTER; AND THENCE SOUTH 88 DEGREES 10 MINUTES 52 SECONDS WEST ALONG SAID NORTH LINE, A DISTANCE OF 1014.71 FEET TO THE POINT OF BEGINNING, CONTAINING 91.42 ACRES, MORE OR LESS, ALL SITUATED IN THE TOWNSHIP OF DEMENT, THE COUNTY OF OGLE, AND THE STATE OF ILLINOIS.

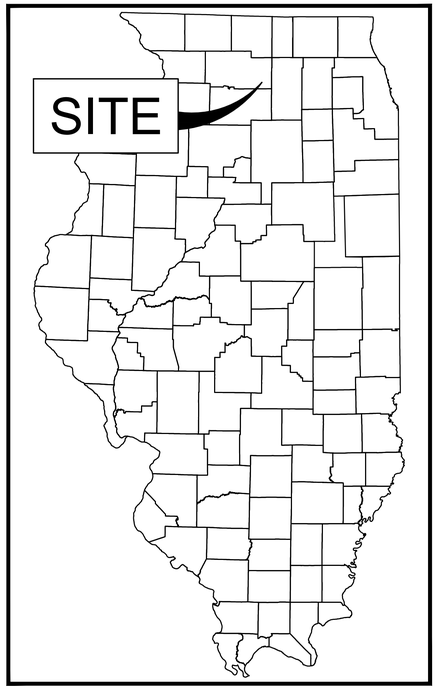
SHEET INDEX

APPLICABLE CODES/STANDARDS

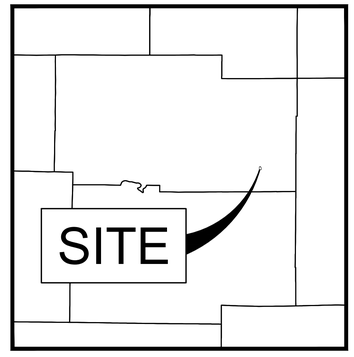
CITY OF ROCHELLE MUNICIPAL CODE
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL MECHANICAL CODE
2018 INTERNATONAL ENERGY CONSERVATION CODE
2018 ILLINOIS ACCESSIBILITY CODE
2014 NATIONAL ELECTRICAL CODE

9-1-1 ADDRESS

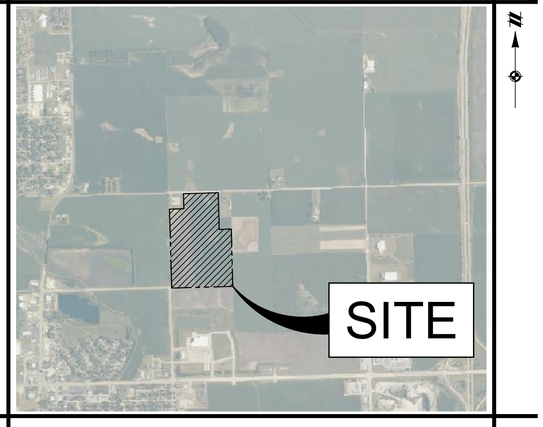
416 NORTH 6TH STREET
ROCHELLE, IL



STATE OF ILLINOIS
NOT TO SCALE



OLGE COUNTY
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 2000'

811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ATWELL
866.850.4200 www.atwell-group.com
311 NORTH MAIN STREET
ANN ARBOR, MI 48104
734.994.4000

ROCHELLE II SOLAR PROJECT
COVER SHEET
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT
enel Green Power

DATE 04/12/2021

REV A ISSUED FOR REVIEW
REV B REISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

REVISIONS

SCALE 0 XX XXX
AS NOTED
DR. SPB | CH. SPB
P.M. LFC
BOOK – –
JOB 20004665
SHEET NO. C-000

CAD FILE: 20004665-C-000.DWG

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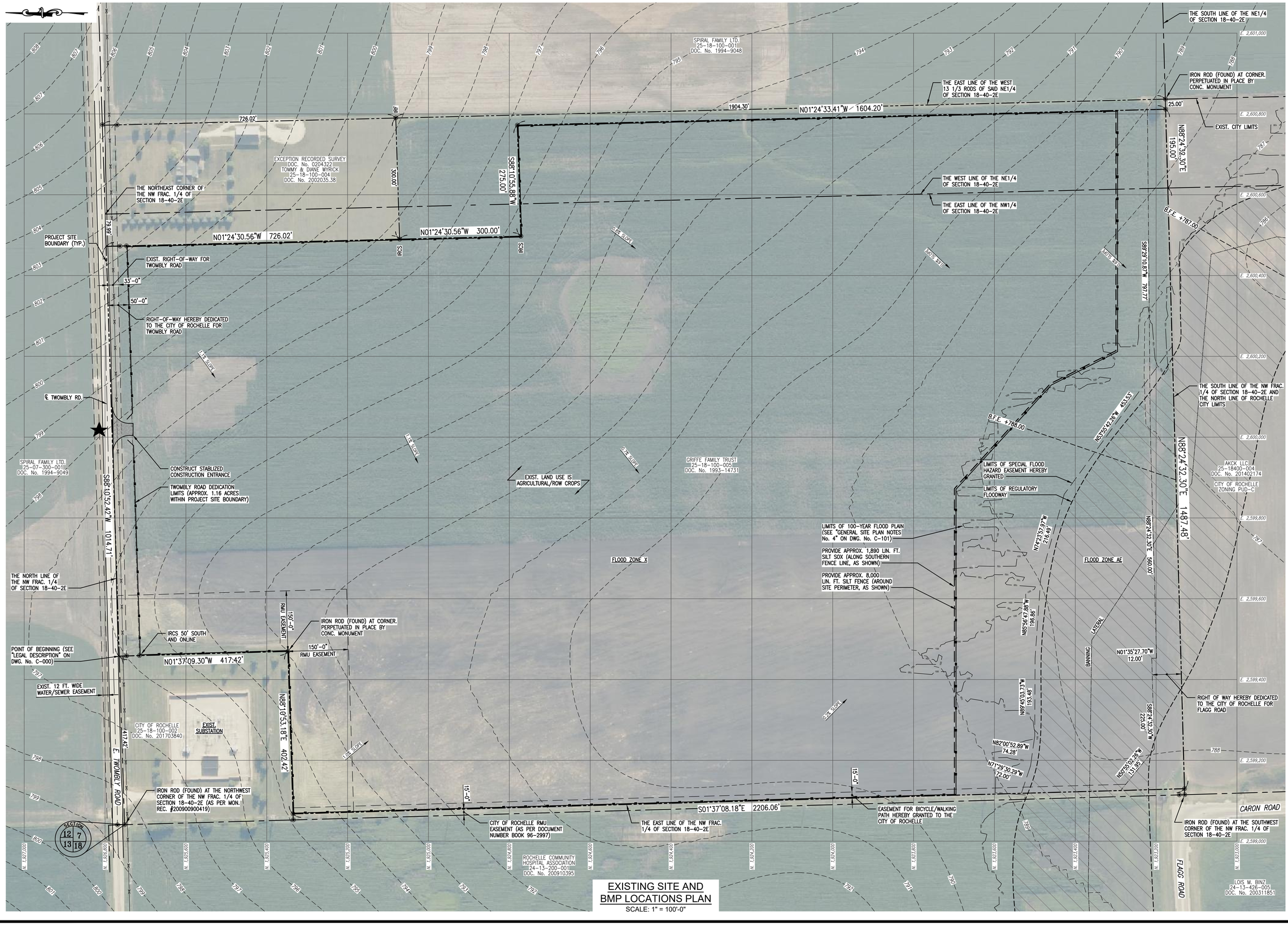

EXISTING SITE AND BMP LOCATIONS PLAN

SCALE: 1" = 100'-0"

811 Know what's **below.** **Call** before you dig.

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ROCHELLE II SOLAR PROJECT
EXISTING SITE AND BMP LOCATIONS PLAN
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT enel Green Power

DATE 04/14/2021

REVISIONS
REV A ISSUED FOR REVIEW
REV B REISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

SCALE 0 50 100
1"=100'-0"

DR. SPB	CH. SPB
P.M. JFC	
BOOK --	
JOB 20004665	
SHEET NO. C-100	

CAD FILE: 20004665-C-100.DWG

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LEGEND

- PROJECT SITE
- MINOR TOPO
- MAJOR TOPO
- RIVERS/STREAMS
- 100 YEAR FLOOD PLAIN
- EXISTING TRANSMISSION
- PROPOSED SILT FENCE
- PROPOSED SILT SOX
- X.X% SLOPE — SLOPE/FLOW DIRECTION
- SITE/CONSTRUCTION ENTRANCE

EXISTING SITE PLAN NOTES

1. EXISTING BACKGROUND DATA IS BASED ON THE FOLLOWING: HORIZONTAL DATUM IS BASED ON ILLINOIS STATE PLANE WEST, FIPS 1202, US FEET (GRID) AND WAS ESTABLISHED BY O.P.U.S. OBSERVATIONS IN ACCORDANCE WITH THE NATIONAL GEODETIC SURVEY'S SPECIFICATION FOR O.P.U.S. OBSERVATIONS; VERTICAL DATUM IS BASED ON NAVD 88.
2. THE EXISTING SITE IS PRIMARILY USED AS ROW CROPS WITH TYPE HSG B AND B/D SOILS. THE SITE GENERALLY DRAINS FROM THE NORTH TO SOUTH WITH AN APPROXIMATE SLOPE OF 0 TO 1 PERCENT. THERE ARE NO WELL-DEFINED DRAINAGE AREAS CROSSING THE PROJECT BOUNDARY, ALTHOUGH THE KYLE RIVER RUNS NORTH TO SOUTH, JUST WEST OF THE PROJECT BOUNDARY.
3. FROM A REVIEW OF AERIAL PHOTOS FOR THE PROJECT SITE, IT APPEARS THAT THERE IS A SUBSURFACE DRAINTILE SYSTEM ACROSS THE SITE. NO RECORD DRAWINGS WERE LOCATED TO VERIFY THE LOCATION OR SIZE OF THE DRAINTILE SYSTEM.
4. A FEMA FLOODPLAIN IS PRESENT ON A PORTION OF THE PROJECT SITE. THE SITE IS COVERED BY FEMA FIRM PANEL 17141C0483E. THIS FLOODPLAIN IS IDENTIFIED AS A FEMA FLOOD ZONE "AE". FEMA FLOOD ZONE "AE" HAS A 1% ANNUAL CHANCE OF FLOODING, ALSO KNOWN AS THE 100-YEAR FLOOD PLAIN. MAJORITY OF THE SITE IS IDENTIFIED AS FEMA FLOOD ZONE "X". THIS ZONE HAS A MINIMAL FLOOD HAZARD
5. STORM WATER MANAGEMENT. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO MINIMIZE EROSION AND SEDIMENTATION DURING CONSTRUCTION OF THE SOLAR FARM.

CONSTRUCTION SEQUENCE SCHEDULE

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
   A.) INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH PROPOSED CULVERT AND OUTLET PROTECTION (IF REQUIRED).
   B.) INSTALL EROSION CONTROL BARRIER
2. CONTAIN STOCKPILE LOCATIONS WITHIN SITE AND INSTALL EROSION CONTROL MEASURES AS NECESSARY.
3. INSTALL CHIP AND SEAL COATED ACCESS DRIVES.
4. START CONSTRUCTION OF SOLAR PANELS AND UTILITIES.
5. INITIATE TEMPORARY SEEDING WITHIN ONE BUSINESS DAY OF INACTIVITY, THROUGHOUT CONSTRUCTION, INCLUDING AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
6. REMOVE GRAVEL FOR LAYDOWN AREA, AND SPREAD WITH TOPSOIL AND SEED.
7. PERMANENTLY STABILIZE ALL AREAS.
8. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION.

* SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY WEEK AND WITHIN 24 HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS DAY AFTER EVERY 0.5 IN. OR GREATER RAINFALL EVENT.

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM CONSTRUCTION SITE IDENITIFIED AS PART OF THIS CERITIFICATION.

GENERAL CONTRACTOR NAME _____

GENERAL CONTRACTOR ADDRESS _____

GENERAL CONTRACTOR TELEPHONE _____

GENERAL CONTRACTOR SIGNATURE _____

DATE _____

SITE ADDRESS _____

SUBCONTRACTOR NAME _____

SUBCONTRACTOR ADDRESS _____

SUBCONTRACTOR TELEPHONE _____

SUBCONTRACTOR SIGNATURE _____

DATE _____

OWNER CERTIFICATION

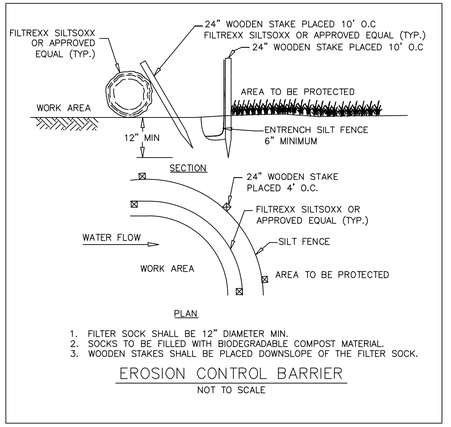
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

_____

OWNER DATE

GENERAL EROSION CONTROL AND SEDIMENTATION NOTES

1. AN EROSION CONTROL BARRIER SHALL BE INSTALLED AS INDICATED IN THE PLAN PRIOR TO THE COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
2. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING ENTIRE CONSTRUCTION PERIOD.
3. ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
4. ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.
5. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.
6. SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.
7. ALL TOPSOIL ENCOUNTERED AND/OR DISTURBED WITHIN THE LIMITS OF THE PROPOSED CHIP AND SEAL COATED ACCESS DRIVES, EQUIPMENT AREAS, ETC., SHALL BE STRIPPED AS NEEDED AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE DISPOSED OF ON SITE AS DIRECTED BY OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
8. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
9. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
10. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENUDED SURFACE WHICH WILL BE EXPOSED FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED AS REQUIRED.
11. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION TO ENSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT.
12. DUST SHALL BE CONTROLLED AS NEEDED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR REPRESENTATIVE.
13. CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM MIGRATING OUTSIDE THE LIMIT OF WORK.
14. ADDITIONAL EROSION CONTROL SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR REPRESENTATIVE.
15. CLEAN AND MAINTAIN EROSION CONTROL BARRIER AS REQUIRED DURING CONSTRUCTION OPERATIONS TO ENSURE ITS CONTINUED FUNCTIONALITY.
16. OVERALL SITE DEVELOPMENT WILL MAINTAIN EXISTING TOPOGRAPHY AND STORM WATER DRAINAGE PATTERNS.
17. THE OVERALL DEVELOPMENT WILL BE RE-SEEDED TO DEVELOP A PERMANENT VEGETATIVE COVER AS INDICATED ON THE LANDSCAPE PLAN. COVER CROP OR OTHER TEMPORARY STABILIZATION WILL BE IMPLEMENTED IN THE INTERIM.
18. NO CONSTRUCTION ACTIVITIES, AS PART OF THE SITE DEVELOPMENT, SHALL OCCUR WITHIN ANY DELINEATED WETLANDS OR WETLAND BUFFERS, AS REQUIRED BY THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES.
19. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED IN ACCORDANCE WITH THE CONDITIONS OF APPLICABLE IL GENERAL NPDES PERMIT..
20. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
21. ALL DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS, SHALL BE MANAGED BY APPROPRIATE CONTROLS.
    - DEWATERING DISCHARGED SHALL BE TREATED OR CONTROLLED TO MINIMIZE DISCHARGES OF POLLUTANTS.
    - THE DISCHARGE SHALL NOT INCLUDE VISIBLE FLOATING SOLIDS OR FOAM.
    - AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE SHALL BE USED TO TREAT OIL, GREASE, OR OTHER SIMILAR PRODUCTS IF DEWATERING IS FOUND TO CONTAIN THESE MATERIALS.
    - TO THE EXTENT FEASIBLE, USE VEGETATED, UPLAND AREAS OF THE SITE TO INFILTRATE DEWATERING WATER BEFORE DISCHARGE.
    - BACKWASH WATER (WATER USED TO BACKWASH/CLEAN ANY FILTERS USED AS PART OF THE STORMWATER TREATMENT) MUST BE PROPERLY TREATED OR HAULED OFF-SITE FOR DISPOSAL.
    - DEWATERING TREATMENT DEVICES SHALL BE PROPERLY MAINTAINED.
22. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
23. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
24. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
25. EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN ONE (1) WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 DAYS FROM THE INITIATION OF THE STABILIZATION WORK IN AN AREA.
26. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
27. ALL DISTURBED AREAS, AREAS USED FOR STORAGE OR MATERIALS THAT ARE EXPOSED TO PRECIPITATION, AND ALL AREAS WHERE STORMWATER TYPICALLY FLOWS WITHIN THE SITE SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE STILL STABILIZED. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.
28. CONTRACTOR SHALL TAKE CORRECTIVE ACTIONS TO ADDRESS ANY STORMWATER CONTROL THAT NEEDS REPAIR OR REPLACEMENT AS SOON AS POSSIBLE AND DOCUMENT CORRECTIVE ACTIONS WITHIN SEVEN DAYS IN AN INSPECTION REPORT.
29. CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKET PER MANUFACTURER'S RECOMMENDATIONS ON ALL SLOPES 4:1 OR STEEPER.
30. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
31. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
32. THIS EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.



1. FILTER SOCK SHALL BE 12" DIAMETER MIN.
2. SOCKS TO BE FILLED WITH BIODEGRADABLE COMPOST MATERIAL.
3. WOODEN STAKES SHALL BE PLACED DOWNSLOPE OF THE FILTER SOCK.

EROSION CONTROL BARRIER

NOT TO SCALE

MAINTENANCE (SILT FENCE)

SILT FENCE SHALL BE REMOVED ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

SILT FENCE SHALL BE INSPECTED NO LESS FREQUENTLY THAN EVERY WEEK DURING CONSTRUCTION. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE FENCE STILL IS NECESSARY, THE FABRIC OR THE ENTIRE SYSTEM SHALL BE REPLACED PROMPTLY.

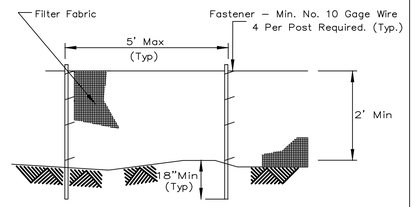
SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE SILT FENCE.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, A SEEDBED PREPARED AND THE SITE VEGETATED.

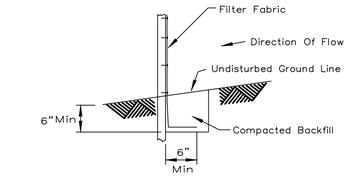
MAINTENANCE (SILTSOXX)

INSPECT AND MAINTAIN SILTSOXX IN GOOD CONDITION. MAINTAIN THE INTEGRITY OF THE CONTROL, INCLUDING KEEPING THE BAGS FREE OF ACCUMULATED SILT, DEBRIS, ETC., UNTIL PERMANENT EROSION CONTROL FEATURES ARE IN PLACE, OR THE DISTURBED AREA HAS BEEN ADEQUATELY STABILIZED. STABILIZE THE AREAS DAMAGED BY THE REMOVAL PROCESS USING APPROPRIATE METHODS AS APPROVED. REPAIR OR REPLACE DAMAGED SILTSOXX AS REQUIRED AND AS DIRECTED. TEMPORARILY REMOVE AND REPLACE SILTSOXX AS REQUIRED TO FACILITATE WORK. REMOVE SEDIMENT AND DEBRIS WHEN ACCUMULATION AFFECTS THE PERFORMANCE OF THE DEVICES, AFTER A RAIN, AND WHEN DIRECTED. DISPOSE OF SEDIMENT AND DEBRIS AT AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

SILT FENCE PLAN



ELEVATION

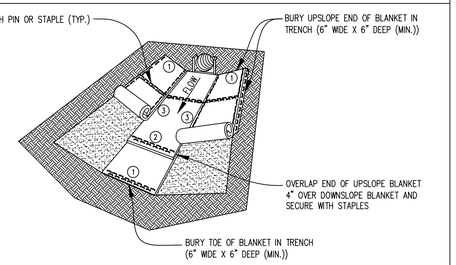


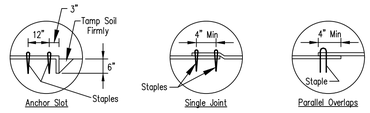
FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

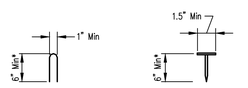
REFERENCE		STANDARD DWG. NO.
Project		IUM-620
Designed	Date	SHEET 1 OF 2
Checked	Date	DATE 3-16-12
Approved	Date	

EROSION CONTROL BLANKET – CHANNEL INSTALLATION





DETAIL 1 DETAIL 2 DETAIL 3



STAPLE DETAIL PUSH PIN DETAIL

*Note:
1. For sandy soil conditions, staple or push pin shall be a minimum 8 inches.

REFERENCE		STANDARD DWG. NO.
Project		IUM-531
Designed	Date	SHEET 1 OF 1
Checked	Date	DATE 02-22-11
Approved	Date	

MAINTENANCE

INSPECT ALL EROSION CONTROL BLANKETS PERIODICALLY AND AFTER RAINSTORMS TO CHECK FOR DAMAGE DUE TO WATER RUNNING UNDER THE BLANKET OR IF THE BLANKETS THAT HAVE BEEN DISPLACED BY WIND. ANY AREAS WHERE WATER SEEPED UNDER THE BLANKET, MORE STAPLES MAY BE NEEDED PER GIVEN AREA OR MORE FREQUENT ANCHORING TRENCHES INSTALLED WITH BETTER COMPACTION. IF SIGNIFICANT EROSION HAS OCCURRED UNDER THE BLANKET THEN GRADING AND RESEEDING MAY ALSO BE NECESSARY. ANY EROSION CONTROL BLANKETS THAT HAVE BEEN DISPLACED WILL NEED TO BE REINSTALLED AND RE-STAPLED. THIS MAY INDICATE THAT THE WRONG TYPE OF BLANKET WAS CHOSEN, ONE MAY NEED TO REVISIT THE SITE CHARACTERISTICS AND THEN SELECT A DIFFERENT TYPE OF EROSION CONTROL BLANKET OR CHOSE A DIFFERENT PRACTICE.

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ROCHELLE II SOLAR PROJECT
SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT

DATE 04/14/2021

REV	
A	ISSUED FOR REVIEW
B	REISSUED FOR REVIEW
C	ISSUED FOR VARIANCE
D	ISSUED FOR VARIANCE

REVISIONS

SCALE 0 XX XXX — AS NOTED

DR. SPB | CH. SPB

P.M. JFC

BOOK --

JOB 20004665

SHEET NO. C-101

CAD FILE: 20004665-C-101.DWG

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CONCRETE WASHOUT

INSTALLATION

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS
1. INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

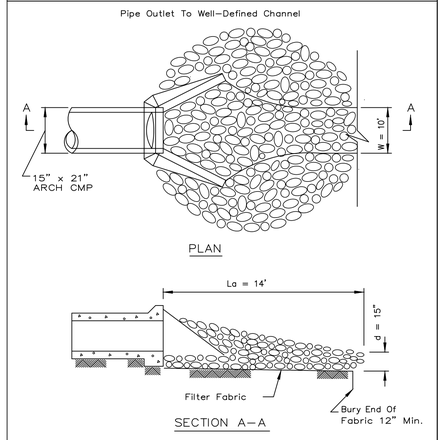
DESIGNED AND INSTALLED SYSTEMS

1. UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
2. DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
3. A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
4. INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
5. PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
6. PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
7. INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
8. POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
9. WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS (SEE TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD) OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE

1. INSPECT DAILY AND AFTER EACH STORM EVENT.
2. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
3. INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
4. INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
5. ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
6. EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
7. UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
8. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
9. THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
10. THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
11. CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DEWATERING.
12. PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
13. INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
14. WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
15. HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

RIP-RAP – PIPE OUTLET TO CHANNEL

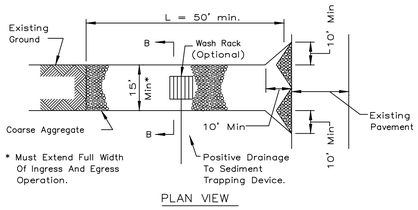


NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III .
2. The rock riprap shall meet the IDOT requirements for the following gradation RR-3.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE	NRCS	STANDARD DWG. NO.
Project	Natural Resources Conservation Service	IL-611
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

MAINTENANCE
INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

STABILIZED CONSTRUCTION ENTRANCE PLAN

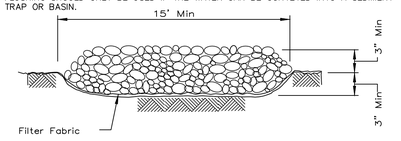


NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE	NRCS	STANDARD DWG. NO.
Project	Natural Resources Conservation Service	IL-630
Designed ____ Date ____		SHEET 1 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

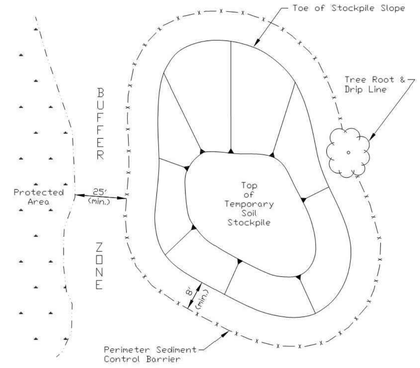
STABILIZED CONSTRUCTION ENTRANCE PLAN

MAINTENANCE:
1. INSPECT DAILY.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
5. FLUSHING SHOULD ONLY BE USED IF THE WATER CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.



REFERENCE	NRCS	STANDARD DWG. NO.
Project	Natural Resources Conservation Service	IL-630
Designed ____ Date ____		SHEET 2 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

TEMPORARY SOIL STOCKPILE DETAIL



NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on inpervious surfaces.
7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

REFERENCE		STANDARD DWG. NO.
Project		IUM-627
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE JANUARY 2017
Approved ____ Date ____		

Know what's **below.** **Call** before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
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CITY OF ROCHELLE, ILLINOIS

CLIENT
enel Green Power

DATE 04/14/2021

REV	
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C	ISSUED FOR VARIANCE
D	ISSUED FOR VARIANCE

REVISIONS

SCALE 0 XX XXX
AS NOTED

DR. SPB | CH. SPB
P.M. JFC
BOOK --
JOB 20004665
SHEET NO.
C-102

CAD FILE: 20004665-C-102.DWG

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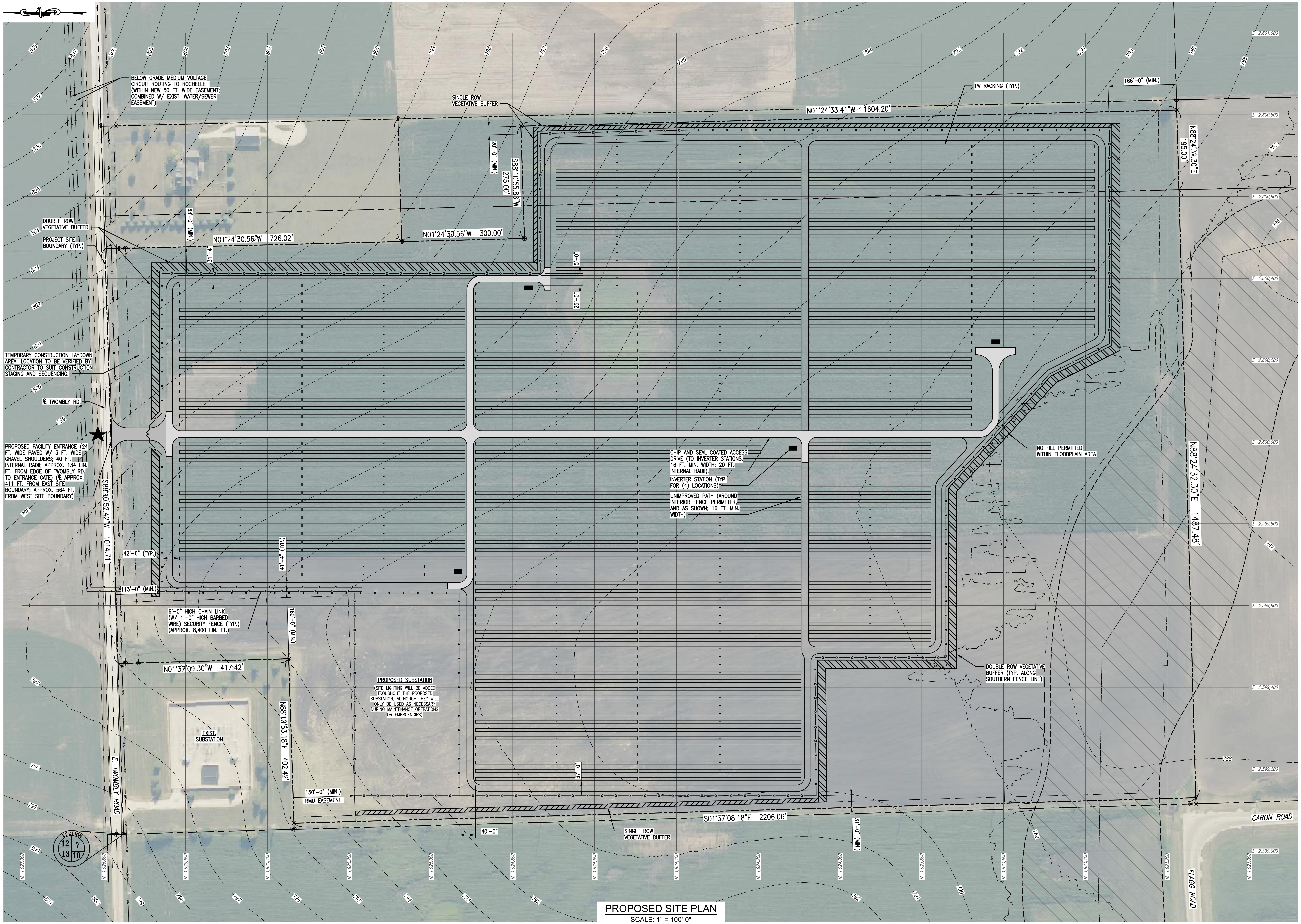

PROPOSED SITE PLAN

SCALE: 1" = 100'-0"

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ROCHELLE II SOLAR PROJECT

PROPOSED SITE PLAN

PRELIMINARY SITE PLAN

CITY OF ROCHELLE, ILLINOIS

CLIENT: enel Green Power

DATE 04/14/2021

REV A ISSUED FOR REVIEW
REV B REISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

REVISIONS

SCALE 0 50 100
1"=100'-0"

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JOB 20004665	
SHEET NO. C-200	

CAD FILE: 20004665-C-200.DWG

LEGEND

- PROJECT SITE
- MINOR TOPO
- MAJOR TOPO
- 100 YEAR FLOOD PLAIN
- EXISTING TRANSMISSION
- PROPOSED FENCE
- PROPOSED BELOW GRADE MEDIUM VOLTAGE CABLE
- INVERTER STATION
- SINGLE ROW VEGETATIVE BUFFER
- DOUBLE ROW VEGETATIVE BUFFER
- PAVED FACILITY ENTRANCE
- CHIP AND SEAL COATED ACCESS DRIVE
- UNIMPROVED PATH
- SITE ENTRANCE

SITE DATA

CAPACITY AC:	12MW
CAPACITY DC:	15.MW
DC/AC RATIO:	1.25
MANUFACTURER:	JINKO
MODEL:	JKM535M–72HL4
NAMEPLATE:	535W
QUANTITY:	28,280
INVERTERS:	
MANUFACTURER:	SUNGROW
MODEL:	SG3425 3600
NAMEPLATE:	3.6MVA
QUANTITY:	4
ARRAY:	
MANUFACTURER:	ATI
TYPE:	HORIZONTAL SINGLE AXIS
TILT:	E–W ±52°
PITCH:	20'–0"
GCR:	37%
PROPERTY:	
ACRES:	±91.4
FENCING:	
LINEAR FEET:	8,484
ACRES:	±62.5

GENERAL NOTES

1. ELECTRIC SOLAR FARM COMPONENTS MUST HAVE UL LISTING OR EQUIVALENT AND ALL SOLAR COLLECTORS MUST BE DESIGNED WITH ANTI–REFLECTIVE COATING(S).
2. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS OR LETTER OF CREDIT ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
4. LIMITS OF WORK SHALL BE EROSION CONTROL BARRIERS AS INDICATED ON DRAWINGS.
5. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
6. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
7. TREE REMOVAL SHALL NOT BE PERMITTED; TREE REMOVAL PLAN IS NOT REQUIRED.
8. SITE LIGHTING FOR THE PROPOSED SOLAR FARM IS NOT REQUIRED. SITE LIGHTING WILL BE ADDED TROUGHOUT THE PROPOSED SUBSTATION, ALTHOUGH THEY WILL ONLY BE USED AS NECESSARY DURING MAINTENANCE OPERATIONS OR EMERGENCIES.
9. EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED TO THE EXTENT POSSIBLE.
10. NEW PUBLIC WATER OR SEWER FACILITIES ARE NOT REQUIRED.
11. NO PARKING AREAS WILL BE ON SITE.
12. FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ZONING DISTRICT:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS THAT MAY BE PROMULGATED BY THE CITY OF ROCHELLE PLANNING DEPARTMENT, AND ANY OTHER APPLICABLE GOVERNING AGENCY. THOSE CONDITIONS SHALL INCLUDE, BUT LIMITED TO, THE FOLLOWING:

A. HEIGHT. NO ASPECT OR COMPONENT OF A SOLAR FARM SHALL EXCEED 20 FEET IN HEIGHT, AS MEASURED FROM GRADE AT THE BASE OF THE STRUCTURE TO ITS HIGHEST POINT. SUCH HEIGHT RESTRICTION SHALL NOT APPLY TO TRANSMISSION LINES.

B. SETBACKS. ALL ASPECTS AND COMPONENTS OF A SOLAR FARM (EXCLUDING FENCES) SHALL BE SET BACK A MINIMUM 40 FEET FROM THE RIGHT–OF–WAY LINE OF ATOWNSHIP JURISDICTION ROAD, A MINIMUM OF 60 FEET FROM THE RIGHT–OF–WAY LINE OF A COUNTY JURISDICTION ROAD, AND A MINIMUM OF 80 FEET FROM A STATE/FEDERAL JURISDICTION ROAD.

C. YARD AREA REQUIREMENTS. ALL ASPECTS AND COMPONENTS OF A SOLAR FARM (EXCLUDING FENCES) SHALL BE LOCATED A MINIMUM OF 50 FEET FROM ANY INTERIOR PROPERTY LINE.

D. RESIDENTIAL BUFFER.

i. ALL ASPECTS AND COMPONENTS OF A SOLAR FARM (EXCLUDING FENCES) SHALL MAINTAIN A MINIMUM BUFFER DISTANCE OF 150 FEET FROM THE PROPERTY LINE OF ANY PARCEL OF 20 ACRES IN AREA OR LESS THAT CONTAIN AN EXISTING DWELLING, OTHER THAN A PARCEL OWNED BY THE OWNER, OPERATOR, OR LESSOR OF THE SOLAR FARMS.

ii. ALL ASPECTS AND COMPONETS OF A SOLAR FARM (EXCLUDING FENCES) SHALL MAINTAIN A MINIMUM BUFFER DISTATNCE OF 150 FEET FROM THE PROPERTY LINE OF ANY VACANT PARCEL OF 20 ACRES IN AREA OR LESS THAT IS ZONED FOR RESIDNTIAL USE OR DETERMINED TO BE ELIGIBLE TO HAVE DWELLING CONSTRUCTED UPON IT AS DETERMINED AT THE TIME OF FILING FOR A SPECIAL USE, OTHER THAN A PARCEL OWNED BY THE OWNER, OPERATOR, OR LESSOR OF THE SOLAR FARM.

iii. ALL ASPECTS AND COMPONENTS OF A SOLAR FARM (EXCLUDING FENCES) SHALL MAINTAIN A MINIMUM BUFFER DISTANCE OF 200 FEET FROM ANY EXISTING DWELLING (AS MEASURED FROM THE CLOSEST EXTERIOR WALL) OTHER THAN A DWELLING OWNED BY THE OWNER, OPERATOR, OR LESSOR OF THE SOLAR FARM.

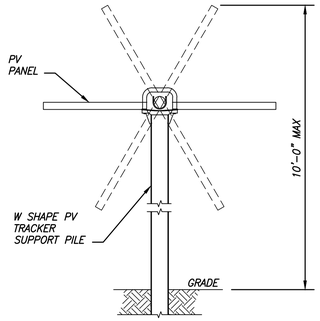
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, SECURING AND COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE STATE ENVIRONMENTAL PROTECTION AGENCY.
3. SUBJECT TO MUNICIPALITY REVIEW. PROJECT MAY REQUIRE A PRELIMINARY AGREEMENT AND/OR ADEQUATE SHOW OF DISCOURSE WITH THE BUREAU OF LAND AND WATER RESOURCES (BWLR) PERTAINING TO THE ENTRY INTO AN AGRICULTURAL IMPACT MITIGATION AGREEMENT (AIMA).

LAYOUT AND MATERIALS NOTES:

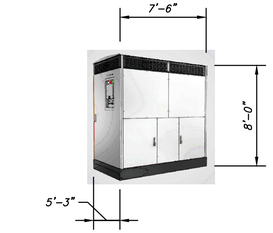
1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.
4. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

SITE NOTES

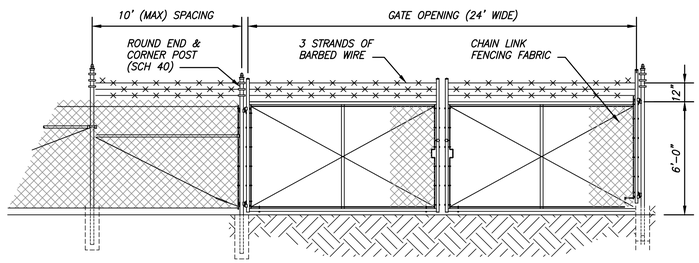
1. TO MINIMIZE SOIL DISTURBANCE AND IMPACTS TO GROUNDWATER INFILTRATION, SOLAR PANELS SHALL HAVE DRIVEN PILE FOUNDATIONS OR GROUND SCREW ANCHORS. IF THE FACILITY IS WITHIN 1,000 FEET OF AN INHABITED RESIDENCE, PILE FOUNDATIONS SHALL BE INSTALLED WITH A HYDRAULIC PILE HAMMER OR SIMILAR SOUND ATTENUATING PROCESS (AS COMPARED TO AN IMPACT–DRIVEN HAMMER) UNLESS NOT FEASIBLE DUE TO ENVIRONMENTAL OR GEOLOGIC CONDITIONS.



TYPICAL PILE DETAIL
NOT TO SCALE



TYPICAL INVERTER SKID DETAIL
NOT TO SCALE



TYPICAL ACCESS GATE AND FENCE DETAIL
NOT TO SCALE

811 Know what's below. Call before you dig.

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CLIENT: enel Green Power

DATE 04/14/2021

REV A ISSUED FOR REVIEW
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REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

REVISIONS

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AS NOTED

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SHEET NO. C–201	

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PROPOSED GRADING AND DRAINAGE PLAN

SCALE: 1" = 100'-0"

Know what's **below.** **Call** before you dig.

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NOTICE:

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ROCHELLE II SOLAR PROJECT
PROPOSED GRADING AND DRAINAGE PLAN
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT: enel Green Power

DATE 04/14/2021

REV A ISSUED FOR REVIEW
REV B REISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

REVISIONS

SCALE 0 50 100
1"=100'-0"

DR. SPB | CH. SPB
P.M. JFC
BOOK --
JOB 20004665
SHEET NO. C-300

CAD FILE: 20004665-C-300.DWG

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LEGEND

- PROJECT SITE
- MINOR TOPO
- MAJOR TOPO
- 100 YEAR FLOOD PLAIN
- SOIL TYPE BOUNDARY
- X.X% SLOPE — SLOPE/FLOW DIRECTION

SOIL LEGEND

SOIL TYPE	SOIL NAME
152A	Drummer silty clay loam 0 to 2 percent slopes
198A	Elburn silt loam 0 to 2 percent slopes
199A	Plano silt loam 0 to 2 percent slopes
411B	Ashdale silt loam 2 to 5 percent slopes
488A	Hooppole loam 0 to 2 percent slopes
3074A	Radford silt loam 0 to 2 percent slopes

GRADING, DRAINAGE AND UTILITY NOTES

1. UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "811" OR EQUIVALENT AND THE OWNER TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES AND THE OWNER ARE PROPERLY NOTIFIED IN ADVANCE.
2. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS TO BE PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
3. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES, GRADES AND OTHER SPECIFIC REQUIREMENTS OR SPECIFICATIONS FOR THE PROJECT AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ENGINEER FOR RESOLUTION.
5. NO DETENTION AND/OR RETENTION AREAS ARE REQUIRED.
6. CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL REMOVE ALL NON-BIODEGRADABLE EROSION CONTROL BARRIERS AFTER RE-VEGETATION OF DISTURBED AREAS.
8. IF IT IS DETERMINED THAT WETLANDS ARE PRESENT ONSITE, THEY ARE TO REMAIN UNDISTURBED. NO ENCROACHMENT PERMITTED UNLESS NOTED ON PLANS.
9. PITCH EVENLY BETWEEN SPOT GRADES.
10. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.
11. EXISTING SITE SURFACE DRAINAGE PATTERNS WILL BE MAINTAINED.
12. ACCESS DRIVES AND ARRAY ARE INTENDED TO BE INSTALLED AT EXISTING GRADE TO MAINTAIN EXISTING FLOW PATTERNS AND NOT CREATE A BLOCKAGE (NO MASS GRADING IS REQUIRED). MINOR GRADING MAY BE NECESSARY AT INVERTER SKID LOCATIONS. SUBSTATION TO BE DESIGNED BY SUBSTATION EPC.
13. IF DRAIN TILES ARE ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL RELOCATE/REPAIR AS NECESSARY TO MAINTAIN THEIR FUNCTIONALITY.
14. STORM WATER MANAGEMENT. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO MINIMIZE EROSION AND SEDIMENTATION DURING CONSTRUCTION OF THE SOLAR FARM.

SITE NOTES

1. TO MINIMIZE SOIL DISTURBANCE AND IMPACTS TO GROUNDWATER INFILTRATION, SOLAR PANELS SHALL HAVE DRIVEN PILE FOUNDATIONS OR GROUND SCREW ANCHORS. IF THE FACILITY IS WITHIN 1,000 FEET OF AN INHABITED RESIDENCE, PILE FOUNDATIONS SHALL BE INSTALLED WITH A HYDRAULIC PILE HAMMER OR SIMILAR SOUND ATTENUATING PROCESS (AS COMPARED TO AN IMPACT-DRIVEN HAMMER) UNLESS NOT FEASIBLE DUE TO ENVIRONMENTAL OR GEOLOGIC CONDITIONS.
2. ALL REQUIREMENTS FOR SAFETY, ABANDONMENT, AND DECOMMISSIONING (INCLUDING BONDING) OUTLINED IN THE CITY OF ROCHELLE ORDINANCE, LATEST ADDENDUM, SHALL BE MET.

STORMWATER MANAGMENT CALCS.

SITE DATA TABLE

TOTAL PROPERTY AREA (ACRES)	91.4
TOTAL DEVELOPED (FENCED) AREA (ACRES)	62.8
PROPOSED NEW IMPERVIOUS AREA (ACRES)	2.6
PERCENT IMPERVIOUS AREA	2.8%

1. PROPOSED IMPERVIOUS AREA INCLUDES THE SUBSTATION, CHIP AND SEAL COATED ACCESS DRIVES, EQUIPMENT PADS, FENCE POSTS, AND ARRAY PILES.
2. SINCE PROPOSED RUNOFF FROM SITE IS LESS THAN EXISTING RUNOFF, NO STORMWATER DETENTION IS NECESSARY; HOWEVER, EROSION AND SEDIMENT CONTROLS ARE REQUIRED SINCE THE DISTURBED AREA IS GREATER THAN 1 ACRE.

PRELIMINARY STORMWATER SUMMARY

SITE HYDROLOGIC SOIL RATING: B/D 95.5%, B 4.5%

TYPICAL LAND USE: CROP, SMALL GRAIN
CN FOR EXISTING SITE: 86

PROPOSED COVER: GRAVEL & MEADOW
CN FOR PROPOSED PROJECT AREA: 79

EXISTING Q100 = 150 CFS
EXISTING V100 = 29.2 AC-FT
PROPOSED Q100 = 130 CFS
PROPOSED V100 = 25.1 AC-FT

- HYDROLOGIC ANALYSIS PERFORMED USING SCS METHOD WITHIN HYDRAFLOW HYDROGRAPHS EXTENSION FOR AUTOCAD CIVIL3D.
- THE DRAINAGE AREA WILL NOT BE ALTERED BETWEEN THE EXISTING CONDITIONS AND THE PROPOSED CONDITIONS.
- THE DIFFERENCE BETWEEN THE TIME OF CONCENTRATION OF THE EXISTING CONDITIONS AND THE PROPOSED CONDITIONS WILL BE NEGLIGIBLE.

HYDROLOGIC SUMMARY TABLE

EXISTING FARMED CONDITION	CN	AC
TOTAL PARCEL AREA		91.4
DEVELOPED (FENCED) AREA		62.5
HSG A - SMALL GRAIN - STRAIGHT ROW - GOOD	63	0.0
HSG B - SMALL GRAIN - STRAIGHT ROW - GOOD	75	2.8
HSG C - SMALL GRAIN - STRAIGHT ROW - GOOD	83	0.0
HSG D - SMALL GRAIN - STRAIGHT ROW - GOOD	87	60.0
WEIGHTED CN - EXISTING FARMED CONDITION		**87**
PROPOSED SOLAR FARM	UNIT	QUANT
PAVED ENTRANCE	1	5379 SF
CHIP AND SEAL COATED ACCESS DRIVES	1	58109 SF
SUBSTATION AREA	1	126394 SF
INVERTER AREA	2000 SF	4
TOTAL IMPERVIOUS AREA		197,882 SF
	CN	AC
IMPERVIOUS AREA (CALCULATED ABOVE)	98	4.5
HSG A - MEADOW - GOOD (NOT USED - SEE NOTE*)	30	
HSG B - MEADOW - GOOD*	58	0.0
HSG C - MEADOW - GOOD*	71	2.8
HSG D - MEADOW - GOOD*	78	55.2
WEIGHTED CN - GRASSY ARRAY (MEADOW) W/ IMPERVIOUS AREA		**79**
* USING NEXT HIGHER HSG TO ACCOUNT FOR CONSTRUCTION		
SUMMARY		
TOTAL PARCEL AREA	AC	91.4
TOTAL FENCED AREA	AC	62.5
PROPOSED IMPERVIOUS AREA	AC	4.5
IMPERVIOUS AREA COVERAGE PERCENTAGE		4.9%
RUNOFF CN - EXISTING		87
RUNOFF - PEAK FLOW Q100 - EXISTING	CFS	150
RUNOFF - VOLUME V100 - EXISTING	AC-FT	29.2
RUNOFF CN - PROPOSED		79
RUNOFF - PEAK FLOW Q100 - PROPOSED	CFS	130
RUNOFF - VOLUME V100 - PROPOSED	AC-FT	25.1

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ROCHELLE II SOLAR PROJECT
GRADING AND DRAINAGE NOTES. AND TABLES
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT enel Green Power

DATE 04/14/2021

REV A ISSUED FOR REVIEW
REV B REISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

REVISIONS

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AS NOTED

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P.M. JFC
BOOK --
JOB 20004665
SHEET NO. C-301

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PROPOSED LANDSCAPING PLAN

SCALE: 1" = 100'-0"

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ROCHELLE II SOLAR PROJECT
PROPOSED LANDSCAPING PLAN
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT enel Green Power

DATE 04/14/2021

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REV C ISSUED FOR VARIANCE
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LEGEND

- PROJECT SITE
- MINOR TOPO
- MAJOR TOPO
- 100 YEAR FLOOD PLAIN
- SINGLE ROW VEGETATIVE BUFFER
- DOUBLE ROW VEGETATIVE BUFFER

PLANTING LEGEND

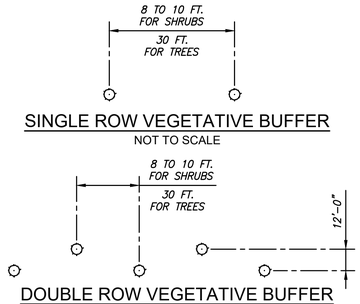
Common Name	Species Name	Height (feet)	Deciduous/ Evergreen
Shrubs			
Ninebark	*Physocarpus opulifolius*	8	Deciduous
Silky dogwood	*Cornus amomum*	8	Deciduous
Winterberry	*Ilex verticillata*	8	Deciduous
Black-haw	*Viburnum prunifolium*	15	Deciduous
Southern arrowood	*Viburnum dentatum*	8	Deciduous
Inkberry	*Ilex glabra*	8	Evergreen
Trees			
Black Gum	*Nyssa sylvatica*	50	Deciduous
Swamp white oak	*Quercus bicolor*	60	Deciduous
Shingle oak	*Quercus imbricaria*	60	Deciduous
Lacebark elm	*Ulmus parvifolia*	50	Deciduous
Eastern white cedar	*Thuja occidentalis*	20-40	Evergreen
Eastern white pine	*Pumus strobus*	80	Evergreen
Eastern hemlock	*Tsuga candensis*	70	Evergreen

PLANTING NOTES

1. ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.
2. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF SITE.
3. PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.
4. PLANTING SEED SHALL BE SOWN IN SEASONAL CONDITIONS AS APPROPRIATE FOR GOOD SEED SURVIVAL, OR AT SUCH TIMES AS APPROVED BY THE OWNER.
5. PROTECT NEWLY TOPSOILED, GRADED AND/OR SEEDED AREAS FROM TRAFFIC AND EROSION. KEEP AREAS FREE OF TRASH AND DEBRIS RESULTING FROM LANDSCAPE CONTRACTOR OPERATIONS.
6. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO THE SPECIFIED GRADE AND TOLERANCES.
7. ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
8. ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITH MATERIAL EQUIVALENT TO THE DESIRED MATERIAL IN OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE. PROPOSED SUBSTITUTIONS WILL ONLY BE CONSIDERED IF SUBMITTED WITH ENUMERATED REASONS WHY SUBSTITUTIONS ARE PROPOSED.
9. THE LANDSCAPE CONTRACTOR SHALL CLEAN UP AND REMOVE ANY DEBRIS FROM THE SITE CAUSED BY THE LANDSCAPE CONTRACTOR.
10. THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS AND PERFORMANCE STANDARDS IDENTIFIED BY THE CITY OF ROCHELLE PLANNING AND DEVELOPMENT STANDARDS FOR SOLAR FARMS. A VARIANCE FROM BERMING REQUIREMENTS IS BEING REQUESTED, SO NO BERMS ARE BEING SHOWN ON LANDSCAPING PLAN.
11. REVEGETATION OF THE SOLAR ARRAY SHALL BE COMPLETED PER AN APPROVED VEGETATION PLAN OR LANDSCAPE PLAN PREPARED SPECIFICALLY FOR THE PROJECT SITE.
12. VEGETATIVE COVER. ALL AREAS OCCUPIED BY THE SOLAR FARM THAT ARE NOT UTILIZED FOR ACCESS TO OPERATE AND MAINTAIN THE SOLAR FARM SHALL BE PLANTED AND MAINTAINED WITH NATIVE GRASSES AND/OR OTHER VEGETATION FOR THE PURPOSE OF SOIL STABILIZATION OR OTHER METHOD AS RECOMMENDED BY THE PLANNING & ZONING COMMISSION AND/OR CITY COUNCIL.

    THE SOLAR FARM OWNER/OPERATOR SHALL PROVIDE FOR WEED CONTROL IN A MANNER THAT PREVENTS THE SPREAD OF WEEDS ONTO AGRICULTURAL LAND AFFECTED BY THE CONSTRUCTION, OPERATION OR DECOMMISSION OF THE SOLAR FARM. SPRAYING SHALL BE DONE BY A PESTICIDE APPLICATOR THAT IS APPROPRIATELY LICENSED IN THE STATE OF ILLINOIS.

    THE REQUIRED FENCE SURROUNDING THE SOLAR FARM SHALL BE MAINTAINED TO PREVENT THE GROWTH OF WOOD VEGETATION WITHIN AND ALONG THE FENCE.



SINGLE ROW VEGETATIVE BUFFER
NOT TO SCALE

DOUBLE ROW VEGETATIVE BUFFER
NOT TO SCALE

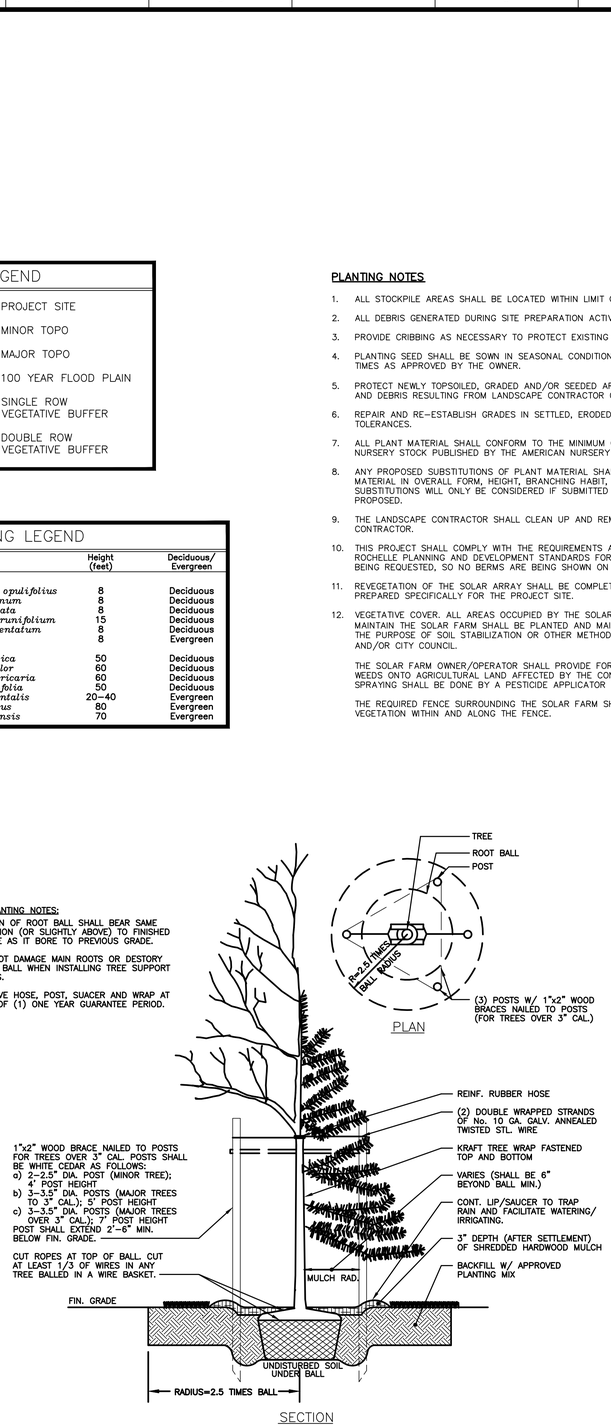
NOTES

1. *THE LANDSCAPED BUFFER WILL BE COMPRISED OF TREES AND SHRUBS. TREES (2-INCH MIN. CALIPER @ PLANTING) WILL BE SPACED AT 30' INTERVALS, UNLESS NOTED OTHERWISE. AT LEAST 50% OF THE LENGTH OF THE LANDSCAPED BUFFER WILL BE PLANTED WITH SHRUBS (MINIMUM HEIGHT OF FOUR FEET @ PLANTING).*
2. *ESTIMATED TOTAL OF 370 TREES, 760 SHRUBS, AND 6,800 FLOWER (NOT SHOWN) TO BE INCLUDED IN LANDSCAPED BUFFER.*

TREE PLANTING NOTES:

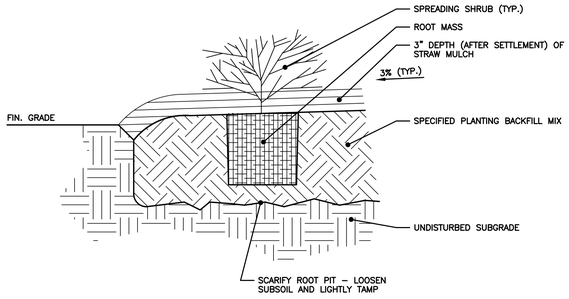
1. CROWN OF ROOT BALL SHALL BEAR SAME RELATION (OR SLIGHTLY ABOVE) TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.
2. DO NOT DAMAGE MAIN ROOTS OR DESTORY ROOT BALL WHEN INSTALLING TREE SUPPORT POSTS.
3. REMOVE HOSE, POST, SUACER AND WRAP AT END OF (1) ONE YEAR GUARANTEE PERIOD.

PLAN



SECTION

TREE PLANTING DETAIL
NOT TO SCALE



NOTES:

1. CROWN OF ROOT MASS TO BE SLIGHTLY ABOVE FINISHED GRADE.
2. FOR BARE ROOT SHRUBS: THIN BRANCHES AND FOLIAGE (ALL END TIPS) BY 1/3 RETAINING NORMAL PLANT SHAPE (BARE ROOT PLANTS ONLY).
3. FOR CONTAINER SHRUBS: REMOVE POT, CHECK ROOT SYSTEM. IF THERE ARE ANY SIGNS OF BEING ROOT BOUND, SLASH ROOT MASS (WITH A SHARP KNIFE) VERTICALLY IN 4 EQUIDISTANT LOCATIONS.
4. FOR BALLED AND BURLAPPED SHRUBS: REMOVE COLLAR ROPES AND TOP 1/3 OF BURLAP. CROWN OR SLOPE ALL SHRUB BEDS TO ASSURE A MIN. PITCH OF 3%.

SHRUB PLANTING DETAIL
NOT TO SCALE

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ROCHELLE II SOLAR PROJECT
LANDSCAPING NOTES AND DETAILS
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

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DATE 04/14/2021

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REV B ISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

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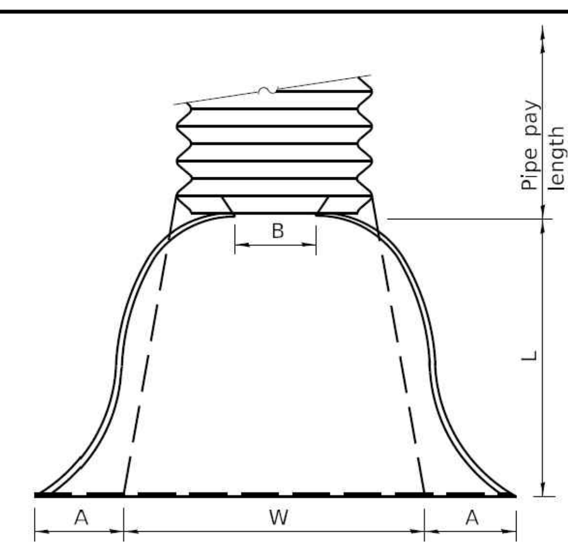
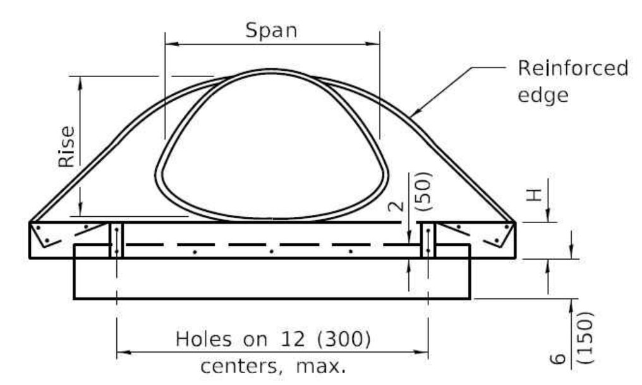
END SECTION

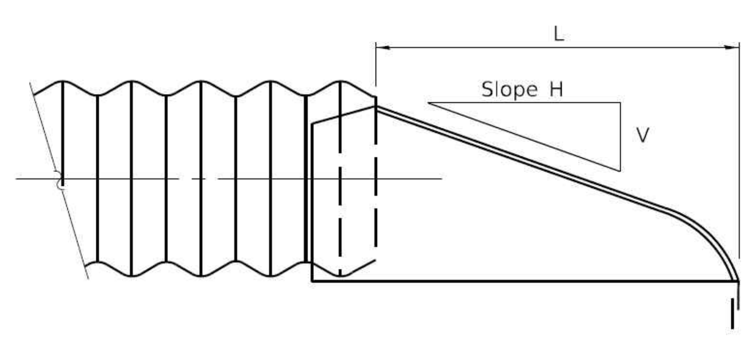
PIPE ARCH DIMENSIONS		THICK-NESS	DIMENSIONS					SLOPE (Approx.) (V:H)	BODY
			A	B	H	L	W		
SPAN	RISE		1± (25)	(max.)	1± (25)	1½± (38)	2± (50)		
17 (432)	13 (330)	0.064 (1.63)	7 (180)	9 (230)	6 (150)	19 (485)	30 (760)	1:2½	1 Pc.
21 (533)	15 (381)	0.064 (1.63)	7 (180)	10 (255)	6 (150)	23 (585)	36 (915)	1:2½	1 Pc.
24 (610)	18 (457)	0.064 (1.63)	8 (205)	12 (305)	6 (150)	28 (710)	42 (1.065 m)	1:2½	1 Pc.
28 (711)	20 (508)	0.079 (2.01)	9 (230)	14 (355)	6 (150)	32 (815)	48 (1.220 m)	1:2½	1 Pc.
35 (889)	24 (610)	0.079 (2.01)	10 (255)	16 (405)	6 (150)	39 (990)	60 (1.525 m)	1:2½	1 Pc.
42 (1067)	29 (737)	0.079 (2.01)	12 (305)	18 (460)	8 (205)	53 (1.170 m)	75 (1.905 m)	1:2½	1 Pc.
49 (1245)	33 (838)	0.109 (2.77)	13 (330)	21 (535)	9 (230)	46 (1.345 m)	85 (2.160 m)	1:2½	2 Pc.
57 (1448)	38 (965)	0.109 (2.77)	18 (460)	26 (660)	12 (305)	63 (1.600 m)	90 (2.285 m)	1:2½	2 Pc.
64 (1626)	43 (1092)	0.109 (2.77)	18 (460)	30 (760)	12 (305)	70 (1.780 m)	102 (2.590 m)	1:2¼	2 Pc.
71 (1803)	47 (1194)	0.138 (3.51)	18 (460)	33 (840)	12 (305)	77 (1.955 m)	114 (2.895 m)	1:2¼	3 Pc.
77 (1956)	52 (1321)	0.168 (4.27)	18 (460)	36 (915)	12 (305)	77 (1.955 m)	126 (3.200 m)	1:2	3 Pc.
83 (2108)	57 (1448)	0.168 (4.27)	18 (460)	39 (990)	12 (305)	77 (1.955 m)	138 (3.505 m)	1:2	3 Pc.



PLAN



END VIEW



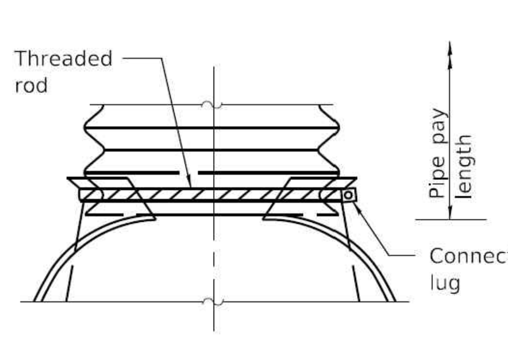
SIDE VIEW

NOTES

For the 77x52 (1956x1321) and 83x57 (2108x1448) sizes, reinforced edges shall be supplemented with 2x2x¼ (51x51x6.4) stiffener angles. The angles shall be attached by ⅜ (M10) rivets or bolts.

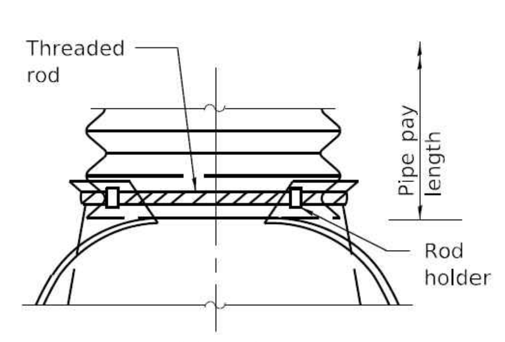
Angle reinforcement shall be placed under the center panel seams on the 77x52 (1956x1321) and 83x57 (2108x1448) sizes.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).



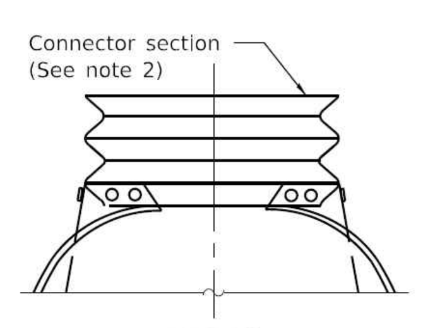
TYPE 1

For 17x13 (432x330) thru 28x20 (711x508) only (See Note 1)



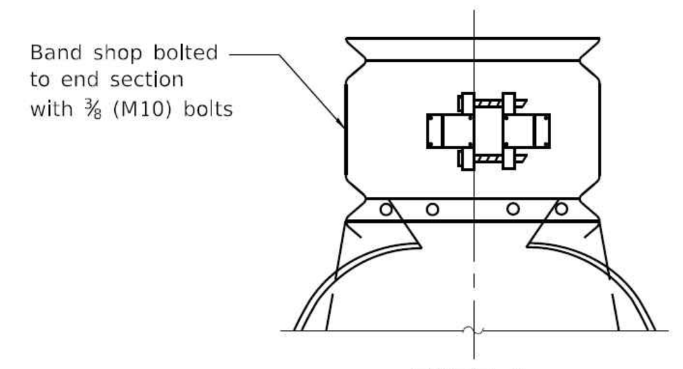
TYPE 2

For 17x13 (432x330) thru 57x38 (1448x965) only (See Note 1)



TYPE 3

(See Note 2)



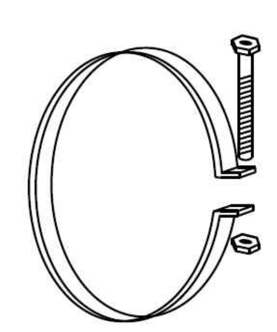
TYPE 4

(See Note 3)

NOTES

1. Type 1 and 2 connection shall be used only with pipes with annular ends.
2. Type 3 connection can be used with all pipe arch sizes and includes 12 (300) of the pipe length. The annular connector section shall be attached to the end section by rivets or bolts and shall be the same metal thickness as the end section. When coupling the type 3 end section to a pipe with helical ends, only the dimple type coupling band shall be used.
3. Type 4 connection can be used with all pipe arch sizes. The end section band shall be either a dimple, hugger, or annular band and can be used with pipes having annular ends. For pipes having helical ends, only the dimple end section band will be allowed.

All dimensions are in inches (millimeters) unless otherwise shown.



1 (25) wide, 0.109 (2.77) thick strap with standard ½x6 (M12x150) band bolt and nut.

ALTERNATE STRAP CONNECTOR

(For Type 1 only)

CONNECTIONS OF END SECTIONS

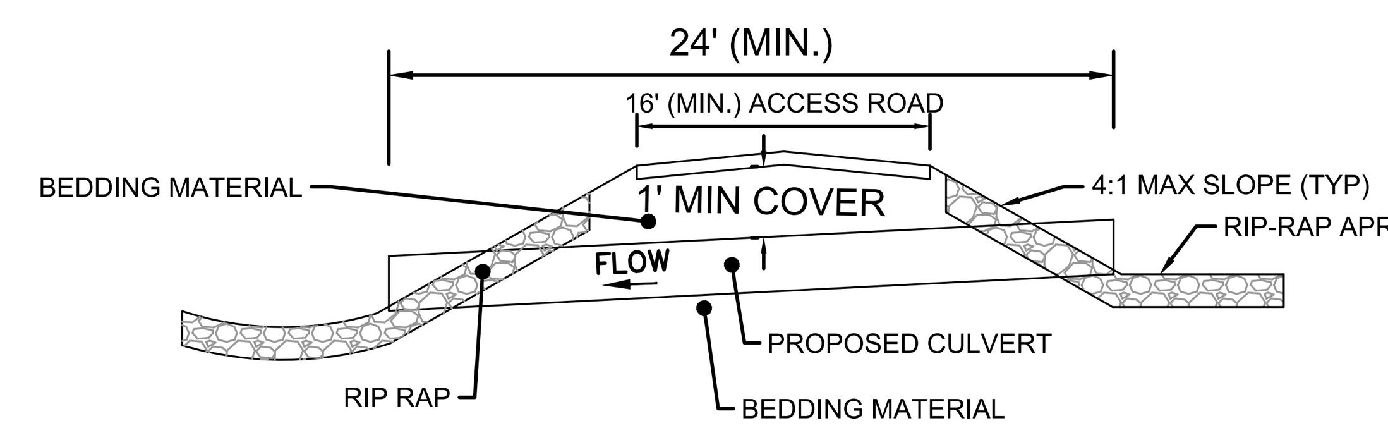
Illinois Department of Transportation

PASSED January 1, 2018
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2018
Maureen M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

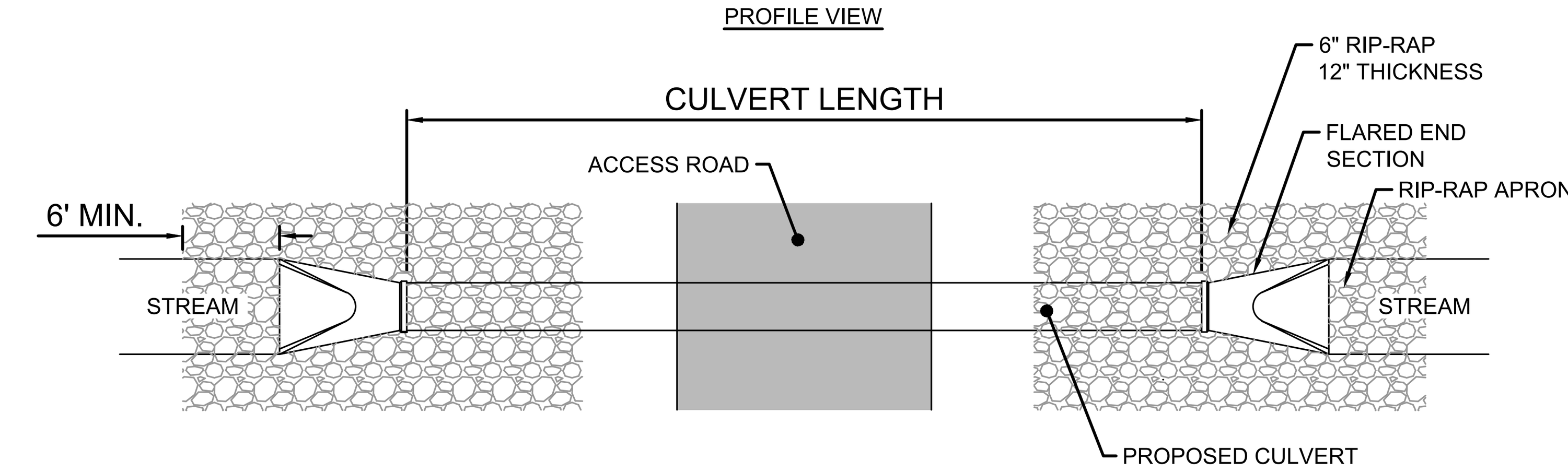
DATE	REVISIONS
1-1-18	Renamed standard.
4-1-16	Revised THICKNESS values
	in table.

METAL FLARED END SECTIONS FOR PIPE ARCHES

STANDARD 542406-03



PROFILE VIEW

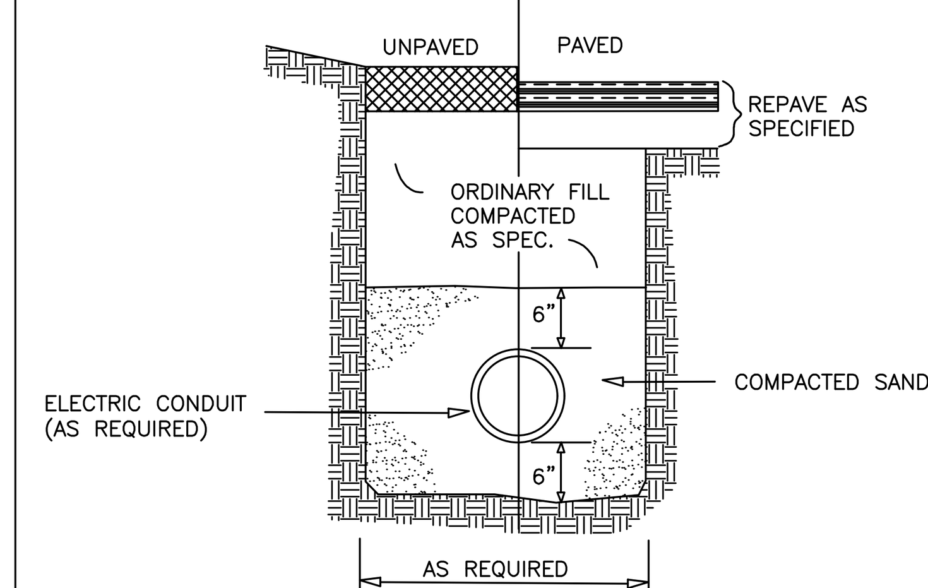


PLAN VIEW

NOTES:
1. CULVERT INSTALLATION SHALL CONFORM WITH IDOT STANDARD SPECIFICATIONS.
2. MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION.
3. WHEN SAND IS ENCOUNTERED, GEOTEXTILE FABRIC SHALL BE USED UNDER THE RIP-RAP AND PIPE BEDDING. RS580i OR EQUIVALENT FABRIC SHALL BE USED.
4. BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR VALUE.

TYPICAL ACCESS ROAD CULVERT

NOT TO SCALE



ELECTRIC CONDUIT TRENCH

NOT TO SCALE

SEE ELECTRICAL PLANS FOR MORE DETAILS.

4"

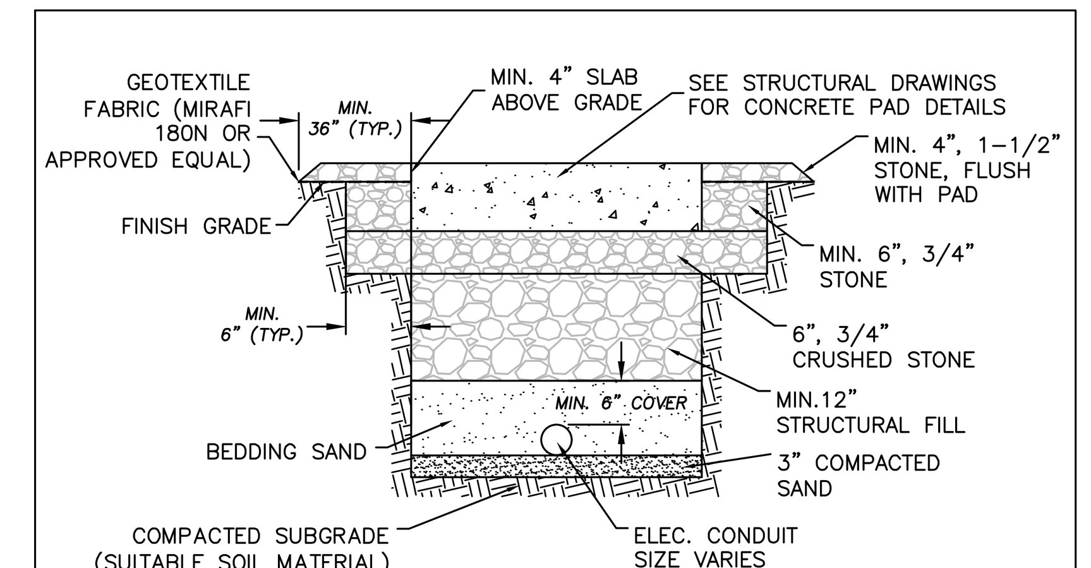
IN CASE OF EMERGENCY, PLEASE CONTACT ENEL AT (XXX)XXX XXXX

4"

RED LABEL WITH WHITE LETTERING LOCATED ON SITE ENTRANCE AND AT INVERTER LOCATION IN A CONSPICUOUS PLACE

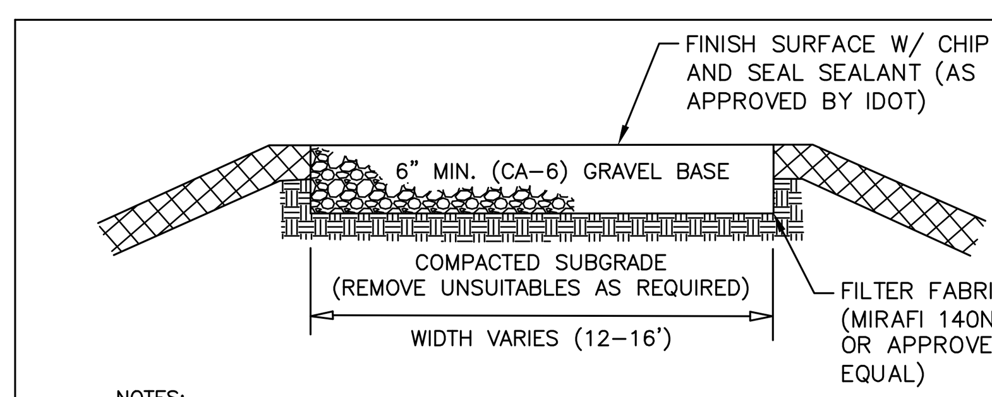
EMERGENCY CONTACT SIGN

NOT TO SCALE



SUBSOIL EQUIPMENT FOUNDATION DETAIL

NOT TO SCALE



NOTES:
1. REMOVE TOPSOIL AND ALL UNSUITABLE MATERIAL AS REQUIRED AND REPLACE WITH GRAVEL.
2. ACCESS DRIVES TO SLOPE IN THE DIRECTION OF THE EXISTING GRADE AT A MINIMUM OF 2.0% DRIVEWAY SHALL BE GRADED TO ALLOW STORMWATER TO SHEET ACROSS IT AND TO PREVENT PUDDLING.
3. FILTER FABRIC SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.

ACCESS DRIVE CROSS SECTION

NOT TO SCALE

811

Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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ANN ARBOR, MI 48104
734.994.4000

ROCHELLE II SOLAR PROJECT
STANDARD DETAILS
PRELIMINARY SITE PLAN
CITY OF ROCHELLE, ILLINOIS

CLIENT
enel Green Power

DATE 04/14/2021

REV A ISSUED FOR REVIEW
REV B REISSUED FOR REVIEW
REV C ISSUED FOR VARIANCE
REV D ISSUED FOR VARIANCE

REVISIONS

SCALE 0 XX XXX
AS NOTED
DR. SPB CH. SPB
P.M. JFC
BOOK --
JOB 20004665
SHEET NO. C-500

CAD FILE: 20004665-C-500.DWG