

# CONDITIONAL USE PERMIT PLANS FOR LOON LAKE SOLAR

5 MW (AC)  
LOCATED AT

41125 N IL ROUTE 83  
ANTIOCH, IL 60002

## APPLICANT/PROJECT OWNER

LOON LAKE SOLAR, LLC  
101 N WACKER DRIVE, SUITE 200  
CHICAGO, IL 60606  
CONTACT: MATT WALSH

## CIVIL ENGINEER

STANTEC CONSULTING SERVICES  
12080 N CORPORATE PARKWAY  
MEQUON, WI 53097

## SURVEYOR

STANTEC CONSULTING SERVICES  
209 COMMERCE PARKWAY  
COTTAGE GROVE, WI 53527

## SOLAR CONSULTANT

NEXAMP, INC.  
101 SUMMER STREET, 2ND FLOOR  
BOSTON, MA 02110  
CONTACT: MATT WALSH  
PHONE: [REDACTED]

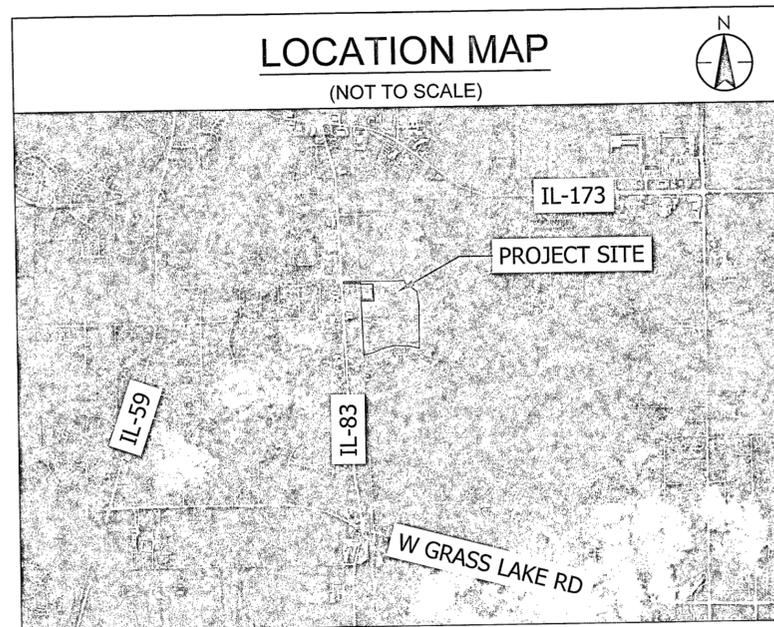
## SITE INFORMATION

PARCEL ZONING  
AGRICULTURE (A-1)

PROJECT DESCRIPTION  
PROJECT PARCEL IS 38.97 ACRES.  
FENCED ACREAGE OF THE PROJECT IS 22.39 ACRES.  
MODULE MODEL: HELIENE 156HC M10 SL BIFACIAL  
MOUNTING SYSTEM: ATI 1P  
INVERTER MODELS: (20) SOLECTRIA XGI 1500-250  
UP-US (DERATED TO 2500 KVA)

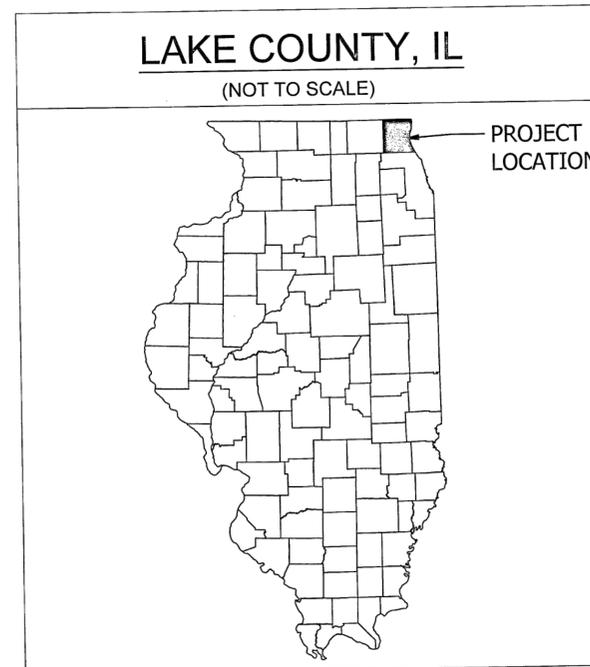
## LOCATION MAP

(NOT TO SCALE)



## LAKE COUNTY, IL

(NOT TO SCALE)

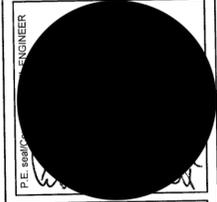


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L1.01	LANDSCAPE PLAN

I CERTIFY THAT THIS PLAN AND SUPPORTING DOCUMENTS MEET THE REQUIREMENTS OF THE LAKE COUNTY SOLAR ENERGY ORDINANCE (151.259)  
JULY 2, 2024  
NOT FOR CONSTRUCTION

101 Summer Street, Boston, MA 02110  
Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com

Rev	Issued For	Date	Drawn By	Approved By	Sheets Rev
0	SC/SP REVIEW	10/23/23	EKK	MAC	
1	COUNTY REVISIONS	12/22/23	EKK	MAC	
2	COUNTY REVISIONS	3/6/2024	EKK	MAC	
	CIP SUBMITTAL	7/2/2024	KSR	MAC	



Project: LOON LAKE SOLAR  
LAKE COUNTY, ILLINOIS

Drawing Title: TITLE SHEET  
Dwg No: G0.01  
Size: D  
Sheet Rev:

PRELIMINARY DRAWING FOR  
INTERCONNECTION APPLICATION  
AND PERMIT SUBMITTAL ONLY.  
NOT FOR CONSTRUCTION.

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GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY-EIGHT HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AS REQUIRED.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, THE MUNICIPALITY, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING AND ADHERING TO AIMA STANDARDS.
4. SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
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. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF EXISTING SITE CONDITIONS DO VARY FROM DRAWINGS.
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, IF ONE EXISTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF EXISTING SITE CONDITIONS DO VARY FROM DRAWINGS.
10. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL JULIE AT 811 OR (800) 892-0123 TO NOTIFY THE UTILITIES OF HIS OR HER INTENTIONS, AND TO REQUEST FIELD LOCATION MARKING OF EXISTING UTILITIES.
11. CONTRACTOR IS ADVISED THAT NO SOIL AND DEBRIS MAY BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH COUNTY CODE OF ORDINANCES.
13. CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH COUNTY AND IDNR TECHNICAL STANDARDS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.
15. SPOT ELEVATIONS AND CONTOURS REPRESENT FINISHED GRADES UNLESS OTHERWISE INDICATED.
16. ALL SITE SIGNAGE MUST COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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 GROUND DISTURBANCE.
2. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING ENTIRE CONSTRUCTION PERIOD.
3. ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED AT THE END OF EACH WORKING DAY.
4. ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMITS OF DISTURBANCE 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 WITHIN THE LIMITS OF THE PROPOSED PERMANENT AND TEMPORARY ACCESS ROADS AND EQUIPMENT PAD AREA SHALL BE STRIPPED AND SPREAD OVER PROJECT SITE AS INDICATED ON PLANS. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
8. STABILIZED CONSTRUCTION ENTRANCE TO BE INSTALLED AND MAINTAINED AT ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS TO SITE TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
9. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DISTURBED SURFACE WHICH WILL BE EXPOSED FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED AS REQUIRED.
10. 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.

11. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR REPRESENTATIVE.
12. CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM MIGRATING OUTSIDE THE LIMIT OF WORK.
13. ADDITIONAL EROSION CONTROL SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR REPRESENTATIVE.
14. CLEAN AND MAINTAIN EROSION CONTROL BARRIER AS REQUIRED DURING CONSTRUCTION OPERATIONS TO ENSURE ITS CONTINUED FUNCTIONALITY.

LAKE COUNTY SOIL EROSION AND SEDIMENT CONTROL NOTES

15. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
16. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
  - 16.1. UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - 16.2. AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
17. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
18. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
19. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
20. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
21. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
22. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
23. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
24. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
25. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
26. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
27. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
28. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
29. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

GRADING, DRAINAGE AND UTILITY NOTES

1. UNDERGROUND UTILITY LOCATIONS ARE BASED ON AVAILABLE MAPPING, LOCATION DESCRIPTION OR SITE LOCATE BY UTILITY COMPANIES DURING PRELIMINARY TOPOGRAPHIC SURVEY. LOCATIONS ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "J.U.L.I.E" 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 APPLICABLE SITE WORK SPECIFICATIONS 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. ALL AREAS WHICH REQUIRE DRAINAGE SHALL BE GRADED TO DRAIN.
5. 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.
6. THE 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 PERMANENT STABILIZATION OF DISTURBED AREAS.
8. WETLANDS ARE TO REMAIN UNDISTURBED. NO ENCROACHMENT PERMITTED UNLESS NOTED ON PLANS.
9. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT COLLECTING WATER. SPECIFICALLY, ALLOW WATER TO ESCAPE ANY SUBCUT AREAS PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE TREATMENT. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

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. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

CONSTRUCTION SEQUENCING

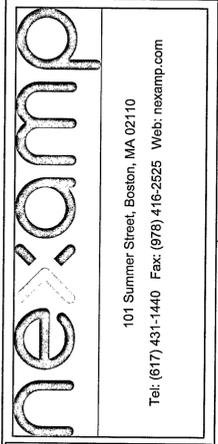
1. INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, AND OTHER EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN ON PLAN AND REQUIRED BY PERMITS. MAINTAIN AS NECESSARY DURING CONSTRUCTION.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL STORM DRAIN INLET PROTECTION ON EXISTING INDICATED STORM INLETS.
4. BEGIN CLEARING AND GRUBBING OF SITE, IF APPLICABLE.
5. STRIP TOPSOIL AND TEMPORARILY STOCKPILE ON SITE WHERE LOCALIZED DISTURBANCE ACTIVITIES OCCUR.
6. INSTALL INTERNAL ACCESS ROADWAYS.
7. BEGIN INSTALLATION OF SOLAR PANEL TRACKER AND RACKING ASSEMBLY.
8. STABILIZE DISTURBED GROUND WITH TOP SOIL, SPECIFIED SEED, AND MULCH AS REQUIRED BY EROSION CONTROL PERMIT AND ORDINANCE.
9. INSTALL LANDSCAPING, IF APPLICABLE.
10. REMOVE ALL TEMPORARY EROSION CONTROL BMP'S ONLY AFTER DISTURBED AREAS ARE PERMANENTLY STABILIZED AND NO LONGER SUSCEPTIBLE TO EROSION.
11. ANY PARKWAY DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING OR CONDITIONS WITH 4" TOPSOIL, CLASS 2A SEEDING, EROSION CONTROL BLANKET, AND ALL OTHER APPURTENANCES AS NECESSARY TO COMPLETE WORK IN ACCORDANCE WITH APPROVED PLANS AND APPLICABLE SPECIFICATIONS.
12. REFER TO THE TURF ESTABLISHMENT PROCEDURES DURING THE WARRANTY PERIOD.

PLANTING NOTES

1. PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.
2. SEED SHALL BE SOWN IN SEASONAL CONDITIONS AS APPROPRIATE FOR GOOD SEED SURVIVAL, OR AT SUCH TIMES AS APPROVED BY THE OWNER.
3. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO FINISHED GRADE. ALL AREAS GRADED TO DRAIN.
4. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
5. THE LANDSCAPE CONTRACTOR SHALL CLEAN UP AND REMOVE ANY DEBRIS FROM THE SITE CAUSED BY THE LANDSCAPE CONTRACTOR.
6. SEED MIX SHALL BE USED TO STABILIZE ALL DISTURBED AREAS.

DRAINTILE NOTES

1. NEXAMP WILL REPLACE ALL EXISTING DRAINTILE WITHIN THE FENCE AND AVOID POST LOCATION AS NECESSARY PRIOR TO ALL OTHER WORK.
2. ANY ADDITIONAL DRAINTILE FOUND ON SITE SHALL BE BROUGHT TO THE OWNER'S ATTENTION IMMEDIATELY AND ANY DAMAGE TO THE EXISTING DRAINTILE SHALL BE REPAIRED IMMEDIATELY.



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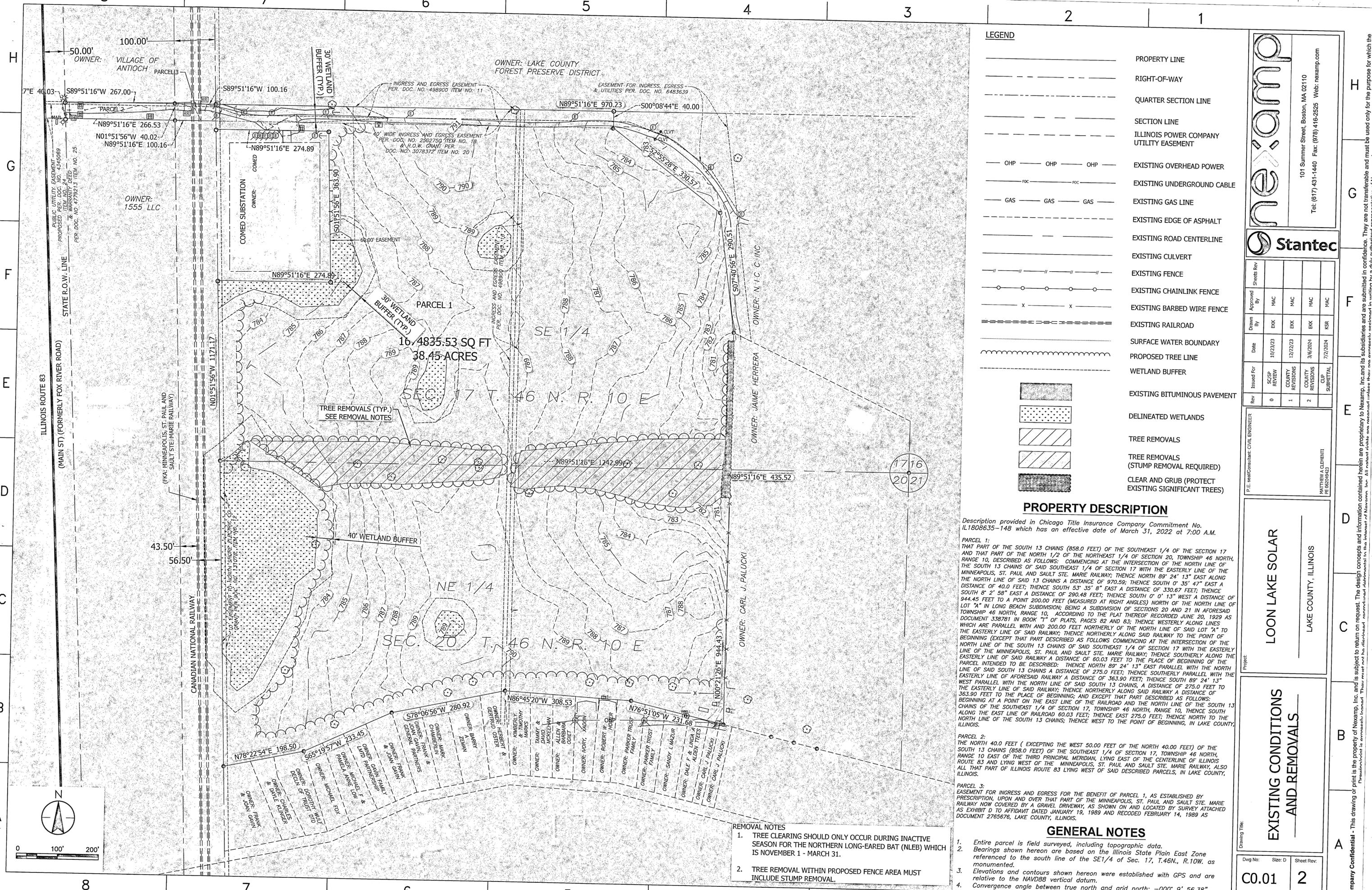
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P.E. Matthew A. Clementt, Civil Engineer  
MATTHEW A. CLEMENTT  
PE 000049423

Project: LOON LAKE SOLAR  
LAKE COUNTY, ILLINOIS

Drawing Title: GENERAL NOTES

Dwg No: G0.02 Size: D Sheet Rev:



**LEGEND**

---	PROPERTY LINE
- - - -	RIGHT-OF-WAY
- . - . -	QUARTER SECTION LINE
- - - - -	SECTION LINE
- - - - -	ILLINOIS POWER COMPANY UTILITY EASEMENT
— OHP — OHP — OHP —	EXISTING OVERHEAD POWER
— FOC — FOC —	EXISTING UNDERGROUND CABLE
— GAS — GAS — GAS —	EXISTING GAS LINE
---	EXISTING EDGE OF ASPHALT
---	EXISTING ROAD CENTERLINE
---	EXISTING CULVERT
	EXISTING FENCE
○ ○ ○ ○ ○	EXISTING CHAINLINK FENCE
x x x x x	EXISTING BARBED WIRE FENCE
==	EXISTING RAILROAD
---	SURFACE WATER BOUNDARY
---	PROPOSED TREE LINE
---	WETLAND BUFFER
---	EXISTING BITUMINOUS PAVEMENT
---	DELINEATED WETLANDS
---	TREE REMOVALS
---	TREE REMOVALS (STUMP REMOVAL REQUIRED)
---	CLEAR AND GRUB (PROTECT EXISTING SIGNIFICANT TREES)

**PROPERTY DESCRIPTION**

Description provided in Chicago Title Insurance Company Commitment No. IL1808635-148 which has an effective date of March 31, 2022 at 7:00 A.M.

**PARCEL 1:** THAT PART OF THE SOUTH 13 CHAINS (858.0 FEET) OF THE SOUTHEAST 1/4 OF THE SECTION 17 AND THAT PART OF THE NORTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 20, TOWNSHIP 46 NORTH, RANGE 10, DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF THE SOUTH 13 CHAINS OF SAID SOUTHEAST 1/4 OF SECTION 17 WITH THE EASTERLY LINE OF THE MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RAILWAY; THENCE NORTH 89° 24' 13" EAST A DISTANCE OF 40.0 FEET; THENCE SOUTH 53° 35' 8" EAST A DISTANCE OF 330.67 FEET; THENCE SOUTH 8° 2' 58" EAST A DISTANCE OF 290.48 FEET; THENCE SOUTH 0° 0' 13" WEST A DISTANCE OF 944.45 FEET TO A POINT 200.00 FEET (MEASURED AT RIGHT ANGLES) NORTH OF THE FORESAID LOT "A" IN LONG BEACH SUBDIVISION; BEING A SUBDIVISION OF SECTIONS 20 AND 21 IN FORESAID TOWNSHIP 46 NORTH, RANGE 10, ACCORDING TO THE PLAT THEREOF RECORDED JUNE 20, 1929 AS DOCUMENT 338781 IN BOOK "T" OF PLATS, PAGES 82 AND 83; THENCE WESTERLY ALONG LINES WHICH ARE PARALLEL WITH AND 200.00 FEET NORTHERLY OF THE NORTH LINE OF SAID LOT "A" TO THE EASTERLY LINE OF SAID RAILWAY; THENCE NORTHERLY ALONG SAID RAILWAY TO THE POINT OF BEGINNING (EXCEPT THAT PART DESCRIBED AS FOLLOWS COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF THE SOUTH 13 CHAINS OF SAID SOUTHEAST 1/4 OF SECTION 17 WITH THE EASTERLY LINE OF THE MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RAILWAY; THENCE SOUTHERLY ALONG THE EASTERLY LINE OF SAID RAILWAY A DISTANCE OF 60.03 FEET TO THE PLACE OF BEGINNING OF THE PARCEL INTENDED TO BE DESCRIBED: THENCE NORTH 89° 24' 13" EAST PARALLEL WITH THE NORTH LINE OF SAID SOUTH 13 CHAINS A DISTANCE OF 275.0 FEET; THENCE SOUTHERLY PARALLEL WITH THE WEST PARALLEL WITH THE NORTH LINE OF SAID SOUTH 13 CHAINS, A DISTANCE OF 275.0 FEET TO THE EASTERLY LINE OF SAID RAILWAY; THENCE NORTHERLY ALONG SAID RAILWAY A DISTANCE OF 363.90 FEET TO THE PLACE OF BEGINNING; AND EXCEPT THAT PART DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE EAST LINE OF THE RAILROAD AND THE NORTH LINE OF THE SOUTH 13 CHAINS OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 46 NORTH, RANGE 10, THENCE SOUTH 10° EAST ALONG THE EAST LINE OF RAILROAD 60.03 FEET; THENCE EAST 275.0 FEET; THENCE NORTH TO THE NORTH LINE OF THE SOUTH 13 CHAINS; THENCE WEST TO THE POINT OF BEGINNING, IN LAKE COUNTY, ILLINOIS.

**PARCEL 2:** THE NORTH 40.0 FEET ( EXCEPTING THE WEST 50.00 FEET OF THE NORTH 40.00 FEET) OF THE SOUTH 13 CHAINS (858.0 FEET) OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 46 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE CENTERLINE OF ILLINOIS ROUTE 83 AND LYING WEST OF THE MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RAILWAY, ALSO ALL THAT PART OF ILLINOIS ROUTE 83 LYING WEST OF SAID DESCRIBED PARCELS, IN LAKE COUNTY, ILLINOIS.

**PARCEL 3:** EASEMENT FOR INGRESS AND EGRESS FOR THE BENEFIT OF PARCEL 1, AS ESTABLISHED BY PRESCRIPTION, UPON AND OVER THAT PART OF THE MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RAILWAY NOW COVERED BY A GRAVEL DRIVEWAY, AS SHOWN ON AND LOCATED BY SURVEY ATTACHED AS EXHIBIT D TO AFFIDAVIT DATED JANUARY 19, 1989 AND RECORDED FEBRUARY 14, 1989 AS DOCUMENT 2765676, LAKE COUNTY, ILLINOIS.

**GENERAL NOTES**

- Entire parcel is field surveyed, including topographic data.
- Bearings shown hereon are based on the Illinois State Plain East Zone referenced to the south line of the SE 1/4 of Sec. 17, T.46N., R.10W. as monumented.
- Elevations and contours shown hereon were established with GPS and are relative to the NAVD88 vertical datum.
- Convergence angle between true north and grid north: -00° 9' 56.38"

**REMOVAL NOTES**

- TREE CLEARING SHOULD ONLY OCCUR DURING INACTIVE SEASON FOR THE NORTHERN LONG-EARED BAT (NLEB) WHICH IS NOVEMBER 1 - MARCH 31.
- TREE REMOVAL WITHIN PROPOSED FENCE AREA MUST INCLUDE STUMP REMOVAL.

**Stantec**

Rev	Issued For	Date	Drawn By	Approved By	Sheets Rev
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2	COUNTY REVISIONS	3/6/2024	EKK	MAC	
	CLIP SUBMITTAL	7/2/2024	KSR	MAC	

P.E. Sean Conrath, CIVIL ENGINEER  
MATTHERIA CLEHEITZ  
PE 00299623

**Loon Lake Solar**

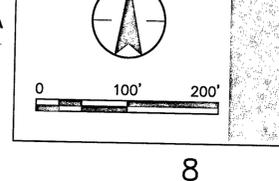
LAKE COUNTY, ILLINOIS

**EXISTING CONDITIONS AND REMOVALS**

Dwg No: C0.01    Size: D    Sheet Rev: 2

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Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com

**nextamp**



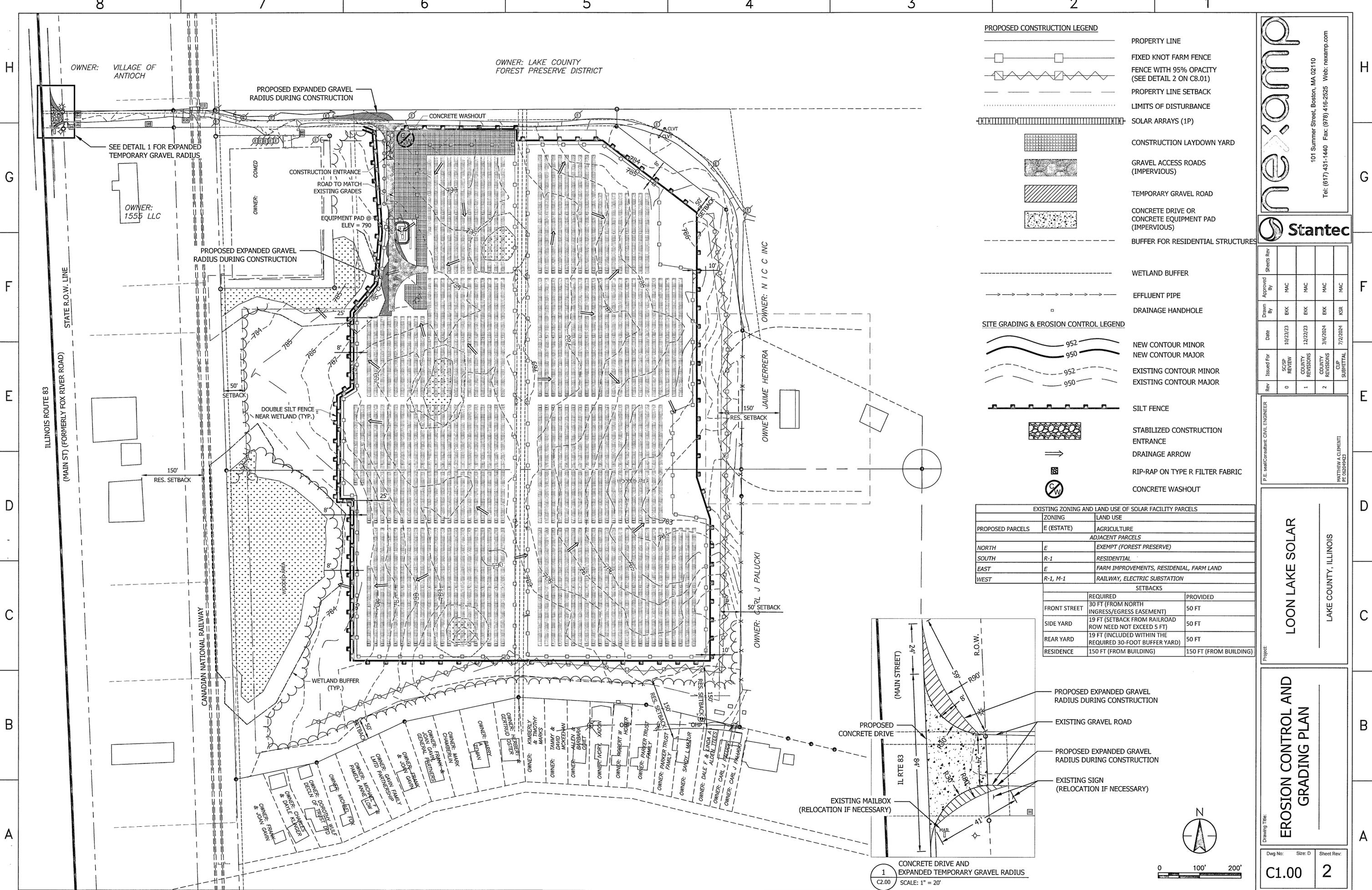
8 7 6 5 4 3 2 1

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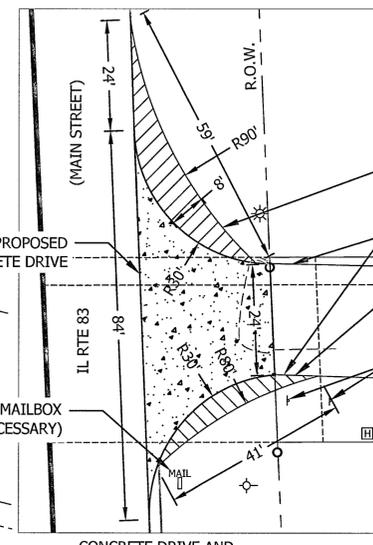
**PROPOSED CONSTRUCTION LEGEND**

- PROPERTY LINE
- FIXED KNOT FARM FENCE
- FENCE WITH 95% OPACITY (SEE DETAIL 2 ON C8.01)
- PROPERTY LINE SETBACK
- LIMITS OF DISTURBANCE
- SOLAR ARRAYS (1P)
- CONSTRUCTION LAYDOWN YARD
- GRAVEL ACCESS ROADS (IMPERVIOUS)
- TEMPORARY GRAVEL ROAD
- CONCRETE DRIVE OR CONCRETE EQUIPMENT PAD (IMPERVIOUS)
- BUFFER FOR RESIDENTIAL STRUCTURES
- WETLAND BUFFER
- EFFLUENT PIPE
- DRAINAGE HANDHOLE

**SITE GRADING & EROSION CONTROL LEGEND**

- NEW CONTOUR MINOR
- NEW CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- DRAINAGE ARROW
- RIP-RAP ON TYPE R FILTER FABRIC
- CONCRETE WASHOUT

EXISTING ZONING AND LAND USE OF SOLAR FACILITY PARCELS		
PROPOSED PARCELS	ZONING	LAND USE
	E (ESTATE)	AGRICULTURE
ADJACENT PARCELS		
NORTH	E	EXEMPT (FOREST PRESERVE)
SOUTH	R-1	RESIDENTIAL
EAST	E	FARM IMPROVEMENTS, RESIDENTIAL, FARM LAND
WEST	R-1, M-1	RAILWAY, ELECTRIC SUBSTATION
SETBACKS		
	REQUIRED	PROVIDED
FRONT STREET	30 FT (FROM NORTH INGRESS/EGRESS EASEMENT)	50 FT
SIDE YARD	19 FT (SETBACK FROM RAILROAD ROW NEED NOT EXCEED 5 FT)	50 FT
REAR YARD	19 FT (INCLUDED WITHIN THE REQUIRED 30-FOOT BUFFER YARD)	50 FT
RESIDENCE	150 FT (FROM BUILDING)	150 FT (FROM BUILDING)



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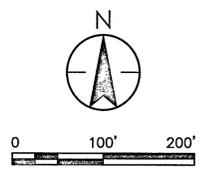
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1	COUNTY REVISIONS	12/27/23	EKK	MAC	
2	COUNTY REVISIONS	3/6/2024	EKK	MAC	
	CIP SUBMITTAL	7/2/2024	KSR	MAC	

P.E. sealConsultant: CIVIL ENGINEER  
 MATTHEW A. CLEMENTI  
 PE 052099923

**LOON LAKE SOLAR**  
 LAKE COUNTY, ILLINOIS

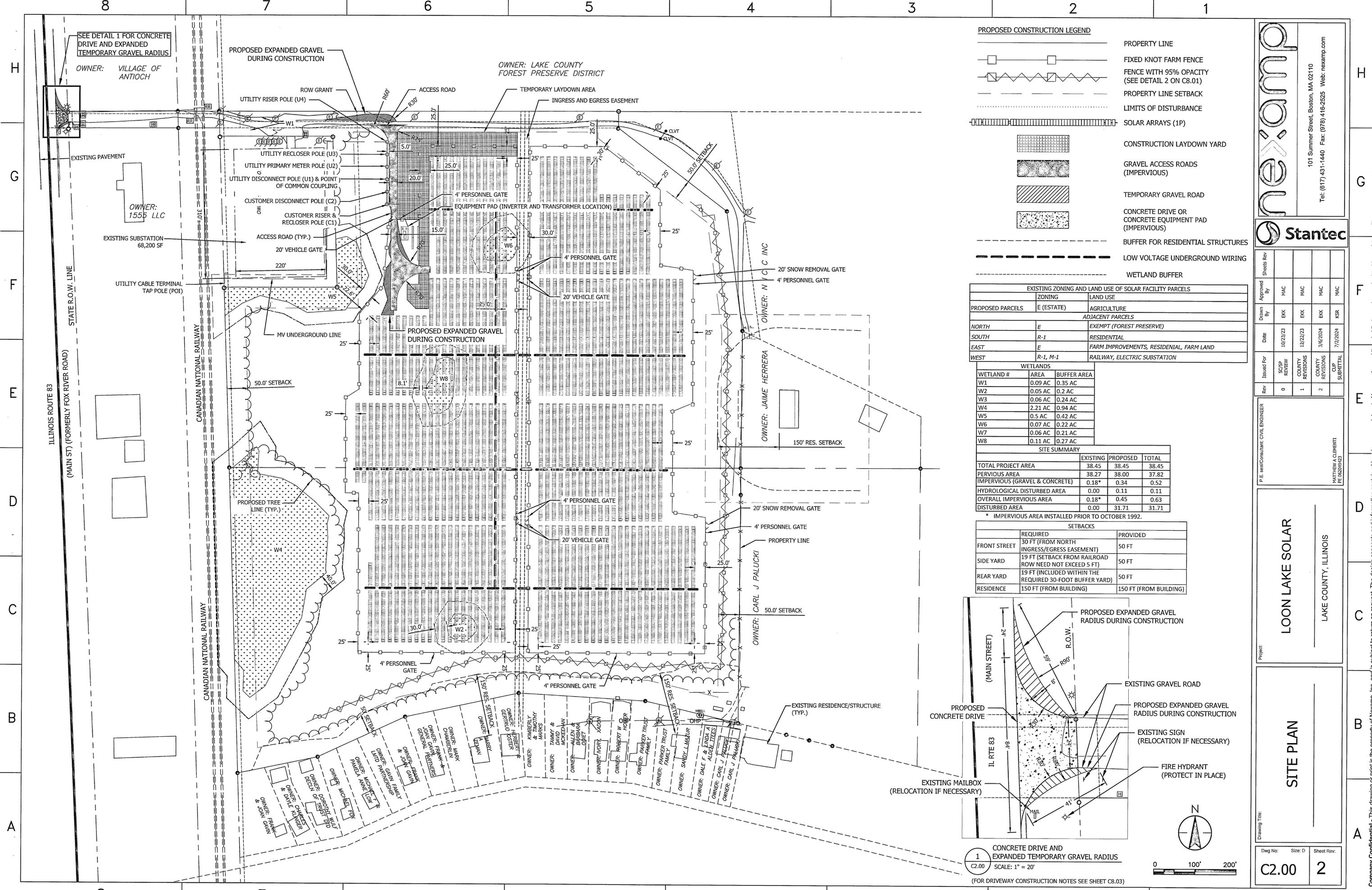
**EROSION CONTROL AND GRADING PLAN**

Dwg No: **C1.00** Size: D Sheet Rev: **2**



**1**  
 C2.00  
 CONCRETE DRIVE AND EXPANDED TEMPORARY GRAVEL RADIUS  
 SCALE: 1" = 20'

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**PROPOSED CONSTRUCTION LEGEND**

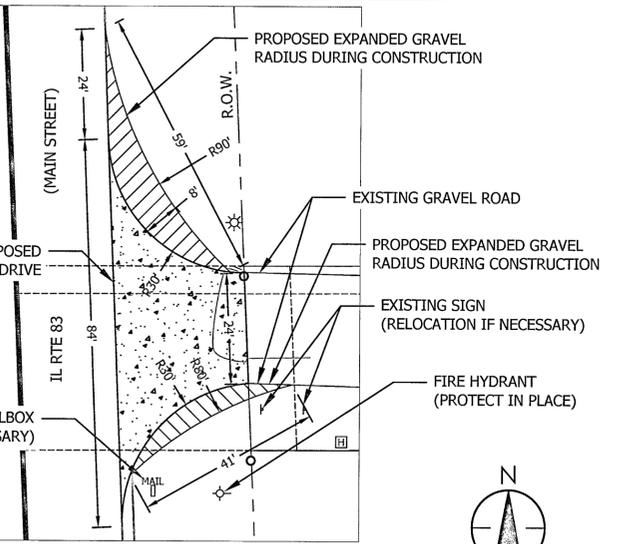
- PROPERTY LINE
- FIXED KNOT FARM FENCE
- FENCE WITH 95% OPACITY (SEE DETAIL 2 ON C8.01)
- PROPERTY LINE SETBACK
- LIMITS OF DISTURBANCE
- SOLAR ARRAYS (1P)
- CONSTRUCTION LAYDOWN YARD
- GRAVEL ACCESS ROADS (IMPERVIOUS)
- TEMPORARY GRAVEL ROAD
- CONCRETE DRIVE OR CONCRETE EQUIPMENT PAD (IMPERVIOUS)
- BUFFER FOR RESIDENTIAL STRUCTURES
- LOW VOLTAGE UNDERGROUND WIRING
- WETLAND BUFFER

EXISTING ZONING AND LAND USE OF SOLAR FACILITY PARCELS		
PROPOSED PARCELS	ZONING	LAND USE
	E (ESTATE)	AGRICULTURE
ADJACENT PARCELS		
NORTH	E	EXEMPT (FOREST PRESERVE)
SOUTH	R-1	RESIDENTIAL
EAST	E	FARM IMPROVEMENTS, RESIDENTIAL, FARM LAND
WEST	R-1, M-1	RAILWAY, ELECTRIC SUBSTATION

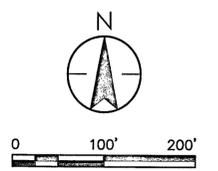
WETLANDS		
WETLAND #	AREA	BUFFER AREA
W1	0.09 AC	0.35 AC
W2	0.05 AC	0.2 AC
W3	0.06 AC	0.24 AC
W4	2.21 AC	0.94 AC
W5	0.5 AC	0.42 AC
W6	0.07 AC	0.22 AC
W7	0.06 AC	0.21 AC
W8	0.11 AC	0.27 AC

SITE SUMMARY			
	EXISTING	PROPOSED	TOTAL
TOTAL PROJECT AREA	38.45	38.45	38.45
PERVIOUS AREA	38.27	38.00	37.82
IMPERVIOUS (GRAVEL & CONCRETE)	0.18*	0.34	0.52
HYDROLOGICAL DISTURBED AREA	0.00	0.11	0.11
OVERALL IMPERVIOUS AREA	0.18*	0.45	0.63
DISTURBED AREA	0.00	31.71	31.71

SETBACKS		
	REQUIRED	PROVIDED
FRONT STREET	30 FT (FROM NORTH INGRESS/EGRESS EASEMENT)	50 FT
SIDE YARD	19 FT (SETBACK FROM RAILROAD ROW NEED NOT EXCEED 5 FT)	50 FT
REAR YARD	19 FT (INCLUDED WITHIN THE REQUIRED 30-FOOT BUFFER YARD)	50 FT
RESIDENCE	150 FT (FROM BUILDING)	150 FT (FROM BUILDING)



**1**  
C2.00  
CONCRETE DRIVE AND EXPANDED TEMPORARY GRAVEL RADIUS  
SCALE: 1" = 20'  
(FOR DRIVEWAY CONSTRUCTION NOTES SEE SHEET C8.03)



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0					
1					
2					

Drawn By	MAC	MAC	MAC
Drawn By	EKK	EKK	EKK
Date	10/23/23	12/22/23	3/6/2024
Approved By	MAC	MAC	MAC
Approved By	KSR	KSR	KSR

**LOON LAKE SOLAR**  
LAKE COUNTY, ILLINOIS

**SITE PLAN**

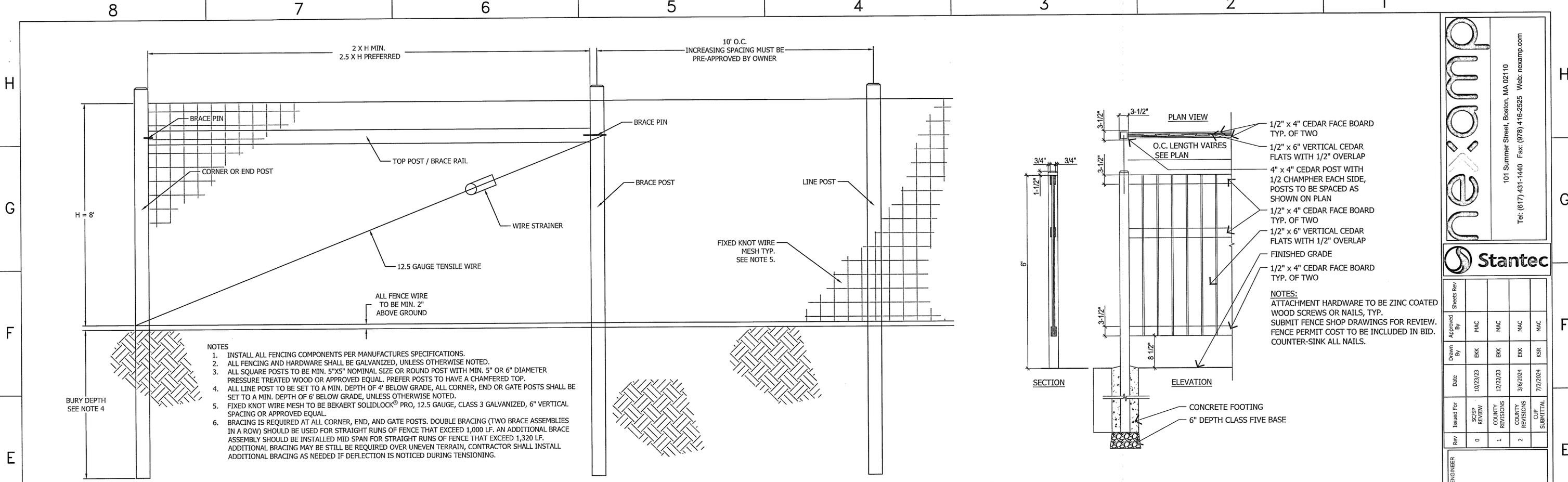
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<b>C2.00</b>		<b>2</b>

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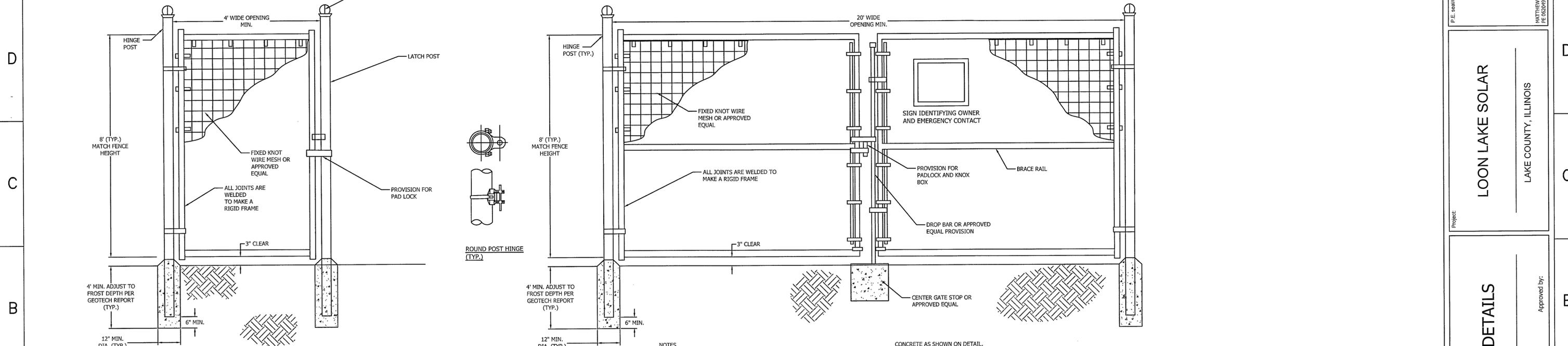
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- NOTES**
1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURES SPECIFICATIONS.
  2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
  3. ALL SQUARE POSTS TO BE MIN. 5"X5" NOMINAL SIZE OR ROUND POST WITH MIN. 5" OR 6" DIAMETER PRESSURE TREATED WOOD OR APPROVED EQUAL. PREFER POSTS TO HAVE A CHAMFERED TOP.
  4. ALL LINE POST TO BE SET TO A MIN. DEPTH OF 4' BELOW GRADE, ALL CORNER, END OR GATE POSTS SHALL BE SET TO A MIN. DEPTH OF 6' BELOW GRADE, UNLESS OTHERWISE NOTED.
  5. FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRO, 12.5 GAUGE, CLASS 3 GALVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
  6. BRACING IS REQUIRED AT ALL CORNER, END, AND GATE POSTS. DOUBLE BRACING (TWO BRACE ASSEMBLIES IN A ROW) SHOULD BE USED FOR STRAIGHT RUNS OF FENCE THAT EXCEED 1,000 LF. AN ADDITIONAL BRACE ASSEMBLY SHOULD BE INSTALLED MID SPAN FOR STRAIGHT RUNS OF FENCE THAT EXCEED 1,320 LF. ADDITIONAL BRACING MAY BE STILL BE REQUIRED OVER UNEVEN TERRAIN, CONTRACTOR SHALL INSTALL ADDITIONAL BRACING AS NEEDED IF DEFLECTION IS NOTICED DURING TENSIONING.

**1** FIXED KNOT FARM FENCE  
C2.00 NTS

**2** 60" WESTERN RED CEDAR BOARD ON BOARD SCREEN FENCE DETAIL  
C2.00 NTS



- NOTES**
1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURES SPECIFICATIONS.
  2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
  3. HINGE POSTS MAY BE TIMBER IF CONTRACTOR DESIRES, TIMBER HINGE POSTS DO NOT NEED TO BE SET IN CONCRETE. UTILIZE HINGE THRU BOLTS TO CONNECT TO TIMBER HINGE POSTS OR LAG SCREWS, PER MANUFACTURERS RECOMMENDATIONS.
  4. IF CONTRACTOR UTILIZES METAL HINGE POST THAN POSTS SHALL BE SET IN CONCRETE AS SHOWN ON DETAIL.
  5. BRACING REQUIRED AT FOR ALL GATES. SEE FIXED KNOT FARM FENCE DETAIL.
  6. FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRO, 12.5 GAUGE, CLASS 3 GALVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
  7. BRACE RAILS AND/ OR TRUSS RODS ARE NOT SHOWN, MAY BE REQUIRED PER MANUFACTURES RECOMMENDATIONS.

- NOTES**
1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURES SPECIFICATIONS.
  2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
  3. HINGE POSTS MAY BE TIMBER IF CONTRACTOR DESIRES, TIMBER HINGE POSTS DO NOT NEED TO BE SET IN CONCRETE. UTILIZE HINGE THRU BOLTS TO CONNECT TO TIMBER HINGE POSTS OR LAG SCREWS, PER MANUFACTURERS RECOMMENDATIONS.
  4. IF CONTRACTOR UTILIZES METAL HINGE POST THAN POSTS SHALL BE SET IN CONCRETE AS SHOWN ON DETAIL.
  5. BRACING REQUIRED AT FOR ALL GATES. SEE FIXED KNOT FARM FENCE DETAIL.
  6. FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRO, 12.5 GAUGE, CLASS 3 GALVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
  7. BRACE RAIL SHOWN FOR REFERENCE ADDITIONAL BRACE RAILS MAY BE REQUIRED (NOT SHOWN) OR TRUSS RODS MAY BE REQUIRED PER MANUFACTURES RECOMMENDATIONS.

**3** FIXED KNOT FARM FENCE PERSONNEL GATE  
C2.00 NTS

**4** 20' WIDE FIXED KNOT FARM FENCE DOUBLE SWING GATE  
C2.00 NTS

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0	SC/SP REVIEW	10/22/23	EKK	MAC	
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2	COUNTY REVISIONS	3/6/2024	EKK	MAC	
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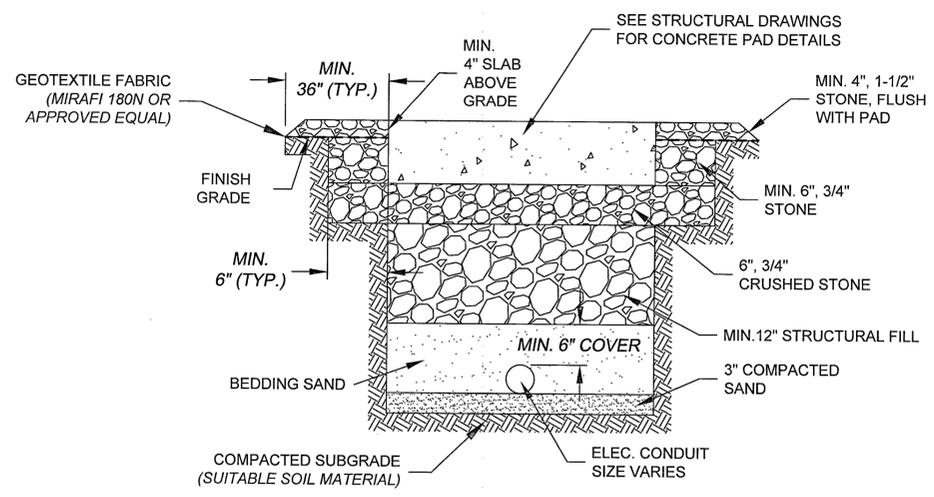
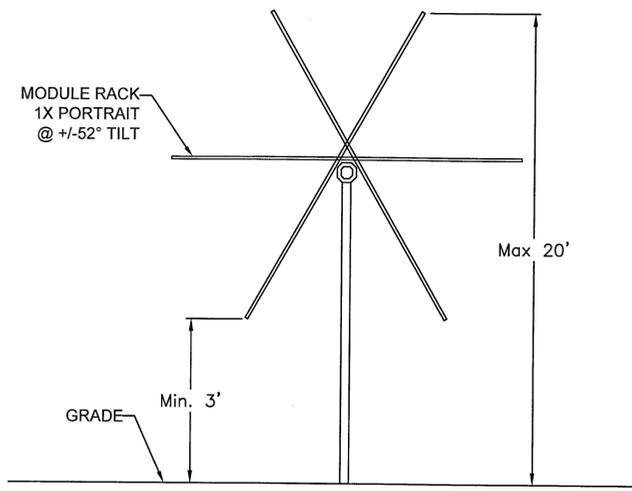
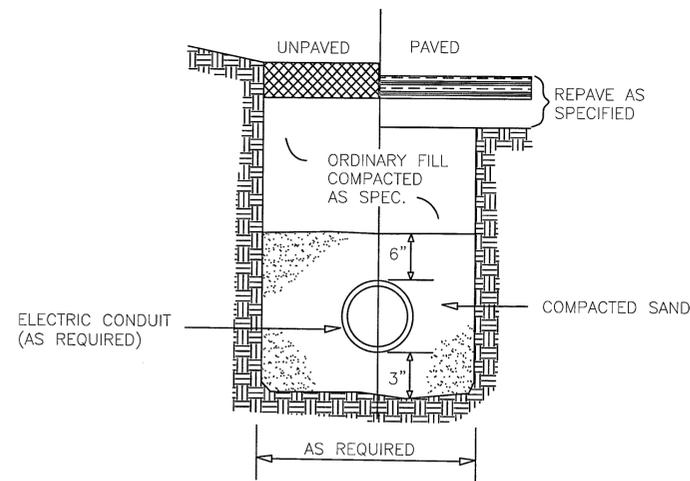
P. E. seal/Consultant CIVIL ENGINEER  
MATTHEW A. CLEMENTI  
PE 05089423

Project: **LOON LAKE SOLAR**  
LAKE COUNTY, ILLINOIS

Drawing Title: **SITE DETAILS**  
Approved by: \_\_\_\_\_  
Drawn by: GPM

Dwg No: **C8.01** Size: D Sheet Rev: **2**

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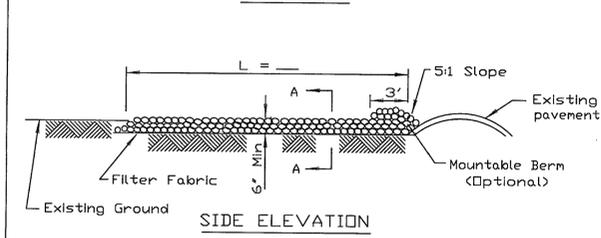
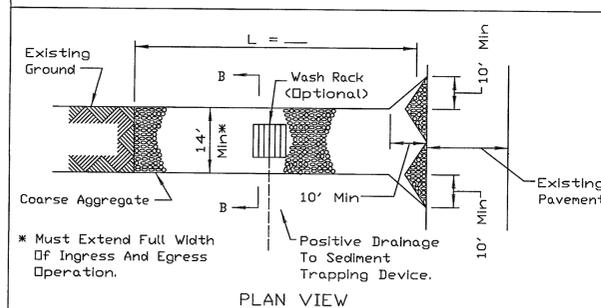
**NOTES:**  
1. TRACKER HEIGHT RANGES ACCOUNT FOR ELEVATION CHANGE

1 ELECTRIC CONDUIT TRENCH  
C2.00 NTS

2 SOLAR ARRAY TRACKER DETAIL  
C2.00 NTS

3 SUBSOIL EQUIPMENT FOUNDATION DETAIL  
C2.00 NTS

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 IDDT 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 Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



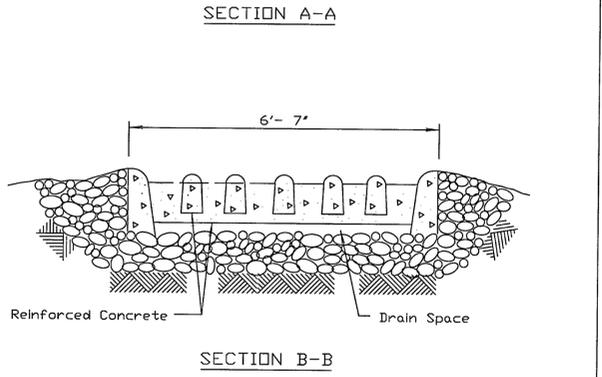
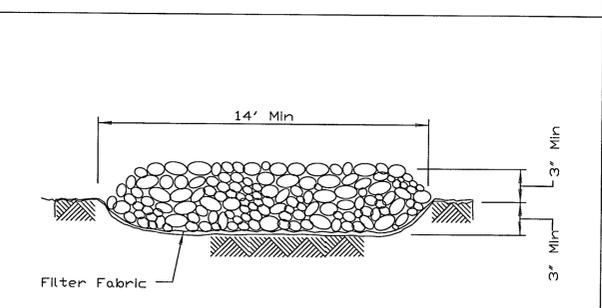
STANDARD DWG. NO. IL-630  
SHEET 1 OF 2  
DATE 8-18-94

REFERENCE Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



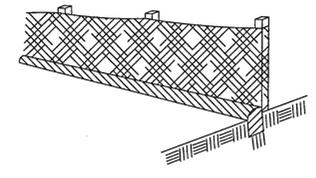
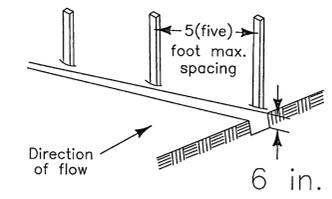
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SHEET 2 OF 2  
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



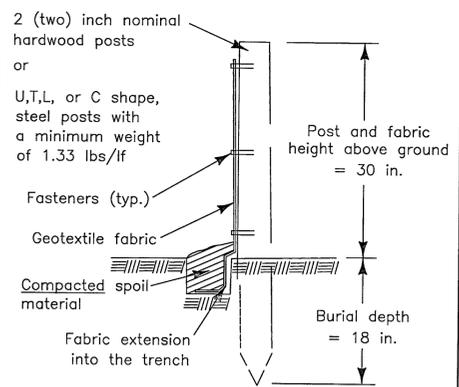
SECTION B-B

- Set posts and excavate or slit-trench a 6-inch deep trench upslope along the line of the post
- Attach the geotextile filter fabric to each post with a minimum of 3 (three) fasteners per post and extend to the bottom of the trench. Acceptable fasteners include staples, zip ties, or wire ties
- Backfill and compact the excavated spoil materials



Geotextile Requirement	Test Method	MARV
Grab strength - Machine direction	ASTM D 4632	550 N
- X-machine direction		450 N
Permittivity	ASTM D 4491	0.05 sec-1
Apparent opening size*	ASTM D 4751	0.60 mm
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours

*Note:* Value for apparent opening size represents maximum average roll value.



SILT FENCE DETAIL

DATE: 4/21/08 BY: KAW  
REVISED: \_\_\_\_\_ BY: \_\_\_\_\_

5 SILT FENCE  
C1.00 NTS

4 STABILIZED CONSTRUCTION ENTRANCE  
C1.00 NTS

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	CLIP SUBMITTAL	7/2/2024	KSR	MAC	

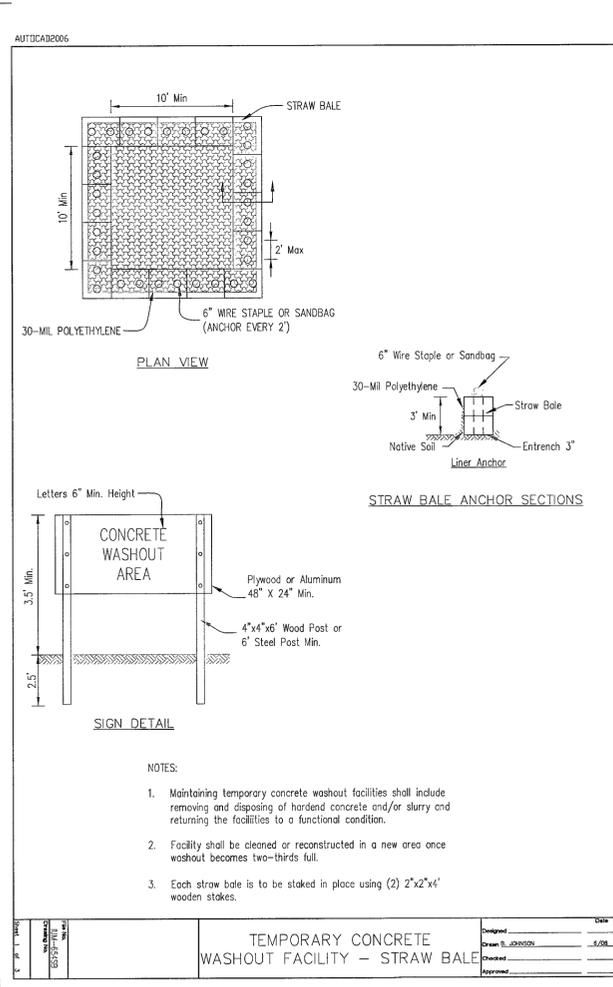
P.E. and Consultant CIVIL ENGINEER  
MATTHEW A. CLEMENTI  
PE 05094923

Project: LOON LAKE SOLAR  
LAKE COUNTY, ILLINOIS

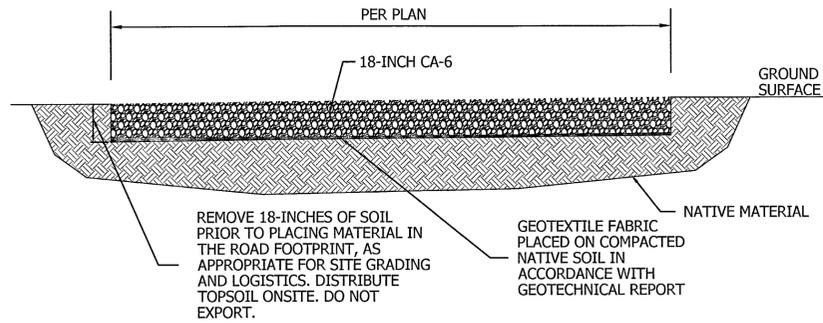
Drawing Title: SITE DETAILS

Dwg No: C8.02 Size: D Sheet Rev: \_\_\_\_\_

1 NOT USED  
C1.00 NTS



2 TEMPORARY CONCRETE WASHOUT  
C1.00 NTS



3  
C2.00 NTS

**IN THE EVENT OF AN EMERGENCY**

**PLEASE DIAL 911**

Followed By a Second Call To:  
857-239-0057

Your Location Is:  
41125 N IL ROUTE 83  
ANTIOCH, IL 60002

**nexamp**

**DANGER**

**HIGH VOLTAGE - KEEP AWAY**  
AUTHORIZED PERSONNEL ONLY

**NO TRESPASSING. THIS SITE IS MONITORED BY SURVEILLANCE.**

4 ELECTRICAL SYSTEM LABELS  
C2.00 NTS

**DRIVEWAY CONSTRUCTION NOTES:**

- Subsection IV - Commercial Entrances**
- This subsection applies to driveways serving other than those specified in Subsection III above. And to street returns, alley returns, and deceleration lanes.
- Bituminous Concrete**  
The earth shall be excavated to a minimum depth 10 inches starting at the edge of highway pavement base for the full dimensions of the proposed facility and replaced with a minimum base 8 inches B&M base course and 2 inches of Class 1 Bituminous Concrete Surface Course.
  - PC Concrete**  
The earth shall be excavated to a minimum 12 inches starting at the edge of the highway pavement base for the full dimensions of the proposed facility and replaced with 4 inches of granular base and 8 inches of PC Concrete reinforced with a minimum of 3 inches x 6 inches welded wire mesh. The facility shall be finished flush with the pavement edge of the highway. If depressed curb and gutter is constructed in the driveway, or street or alley return area, a lip of no more than 1 inch shall be permitted at the curb line.
  - Bituminous Surface PC Concrete**  
The earth shall be excavated to a minimum depth of 14 inches starting at the edge of the highway pavement base for the full dimensions of the proposed facility and replaced with 4 inches of granular base course, 8 inches of PC Concrete base course and 2 inches of Class 1 Bituminous Concrete Surface Course.

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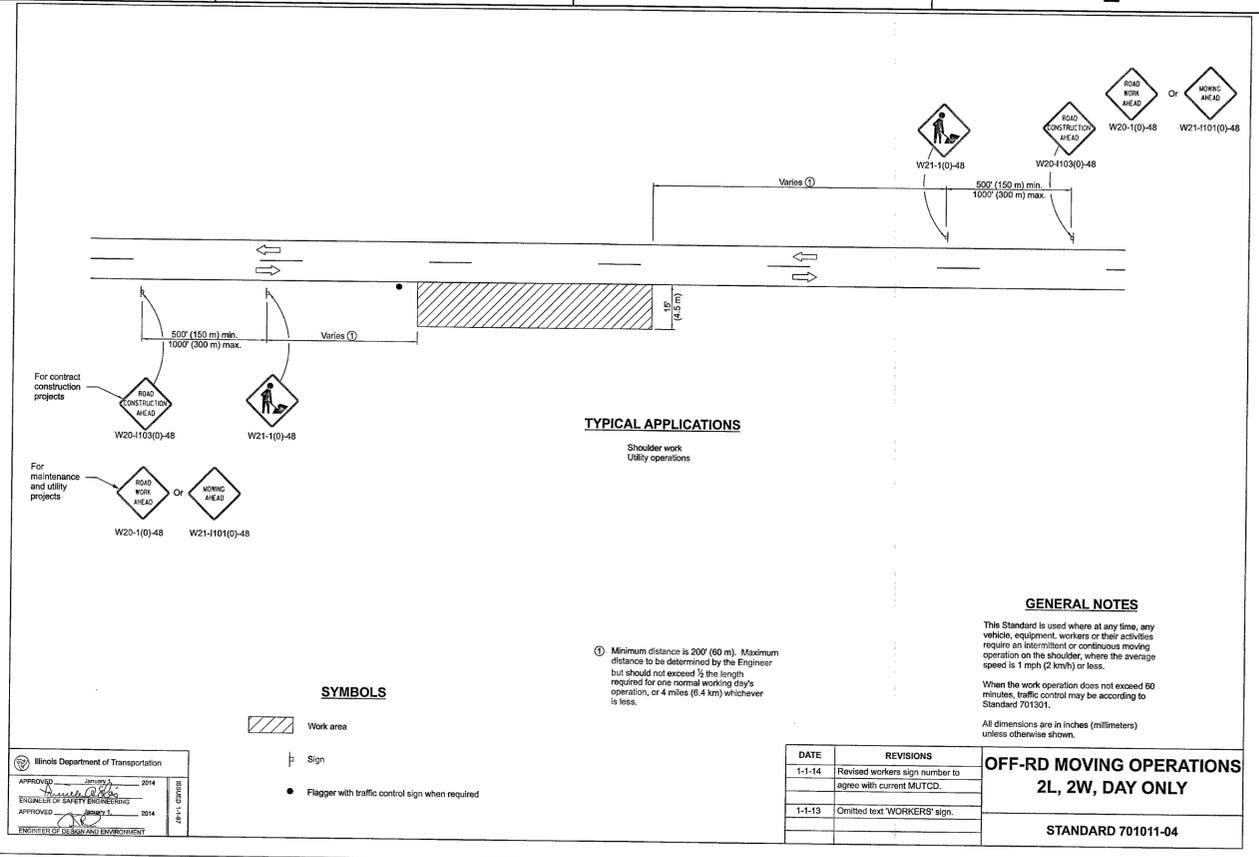
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	CLIP SUBMITTAL	7/2/2024	KSR	MAC	

P.E. sean@consultant.civilengineer  
MATTHEW A. CLEMENTI  
PE 062049423

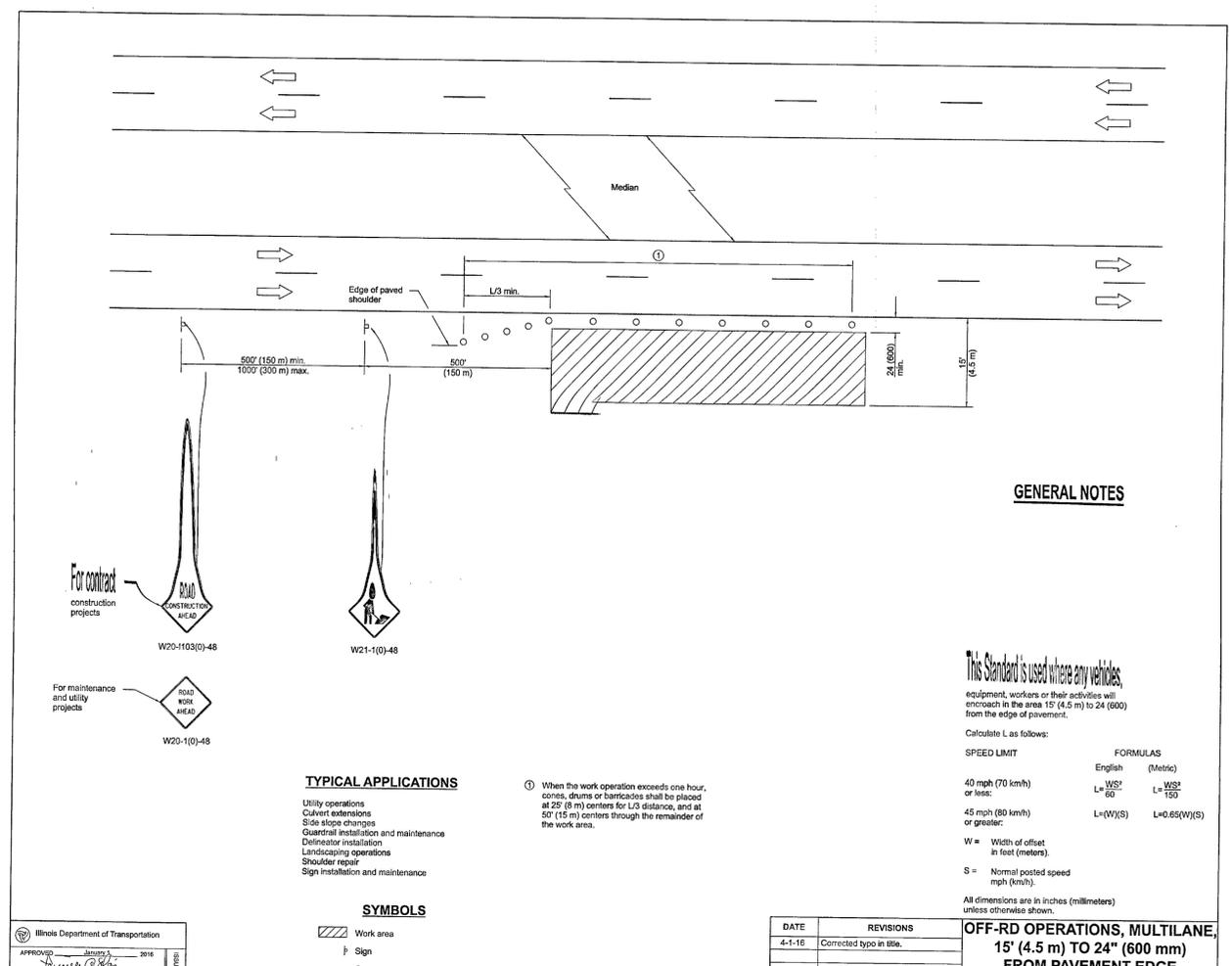
**LOON LAKE SOLAR**  
LAKE COUNTY, ILLINOIS

**SITE DETAILS**

Dwg No: C8.03  
Size: D  
Sheet Rev:



1 OFF ROAD MOVING OPERATIONS  
C1.00 NTS



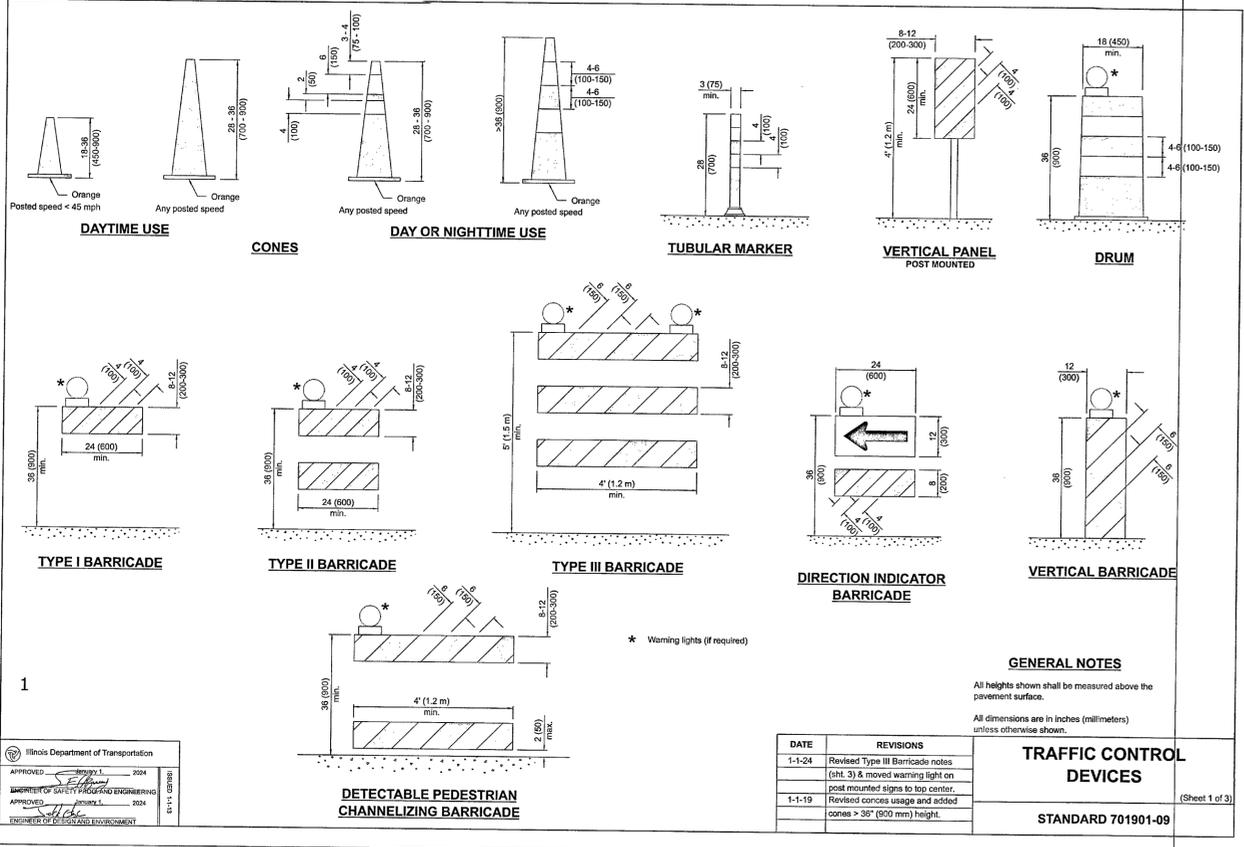
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1	COUNTY REVISIONS	12/22/23	EKK	MAC	
2	COUNTY REVISIONS	3/6/2024	EKK	MAC	
	CIP SUBMITTAL	7/2/2024	KSR	MAC	

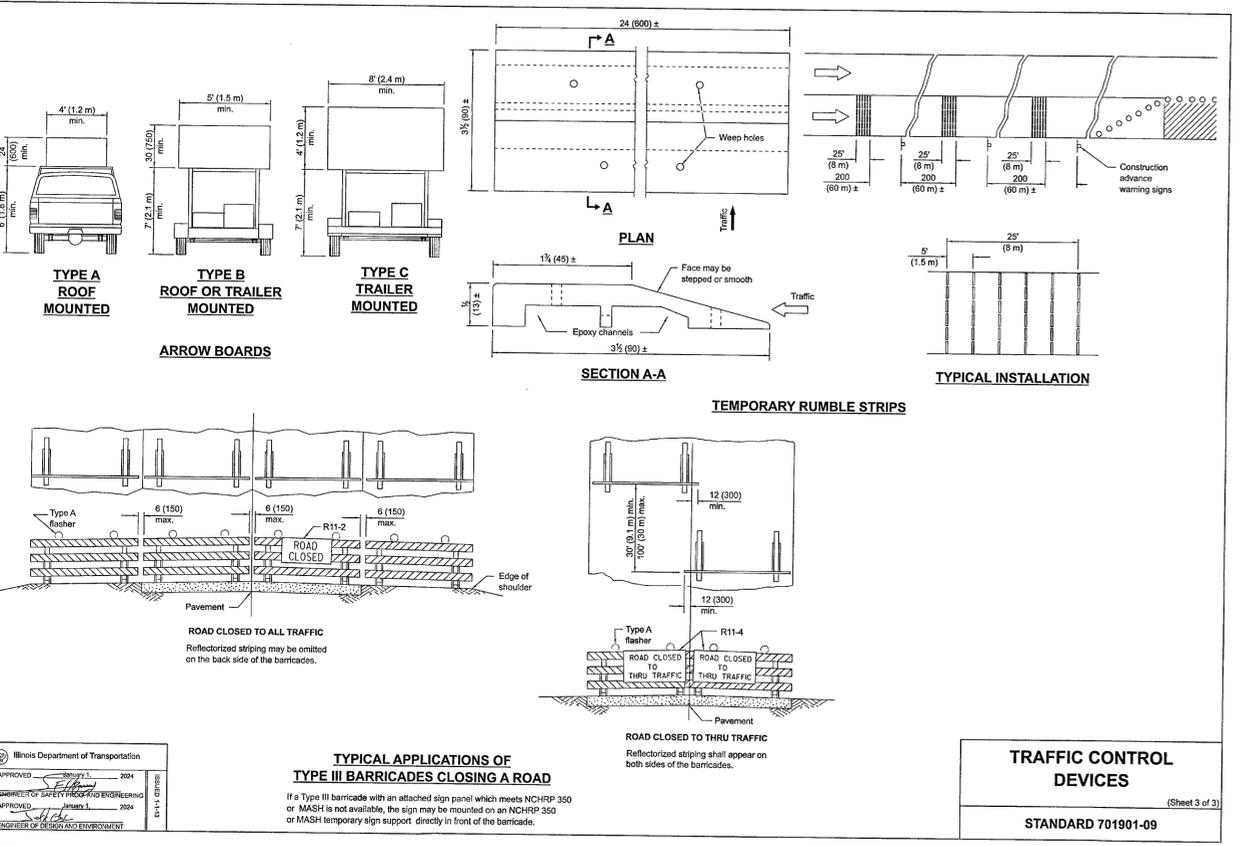
P.E. Matthew A. Clementi, CIVIL ENGINEER  
MATTHEW A. CLEMENTI  
PE 065098423

Project: **LOON LAKE SOLAR**  
LAKE COUNTY, ILLINOIS

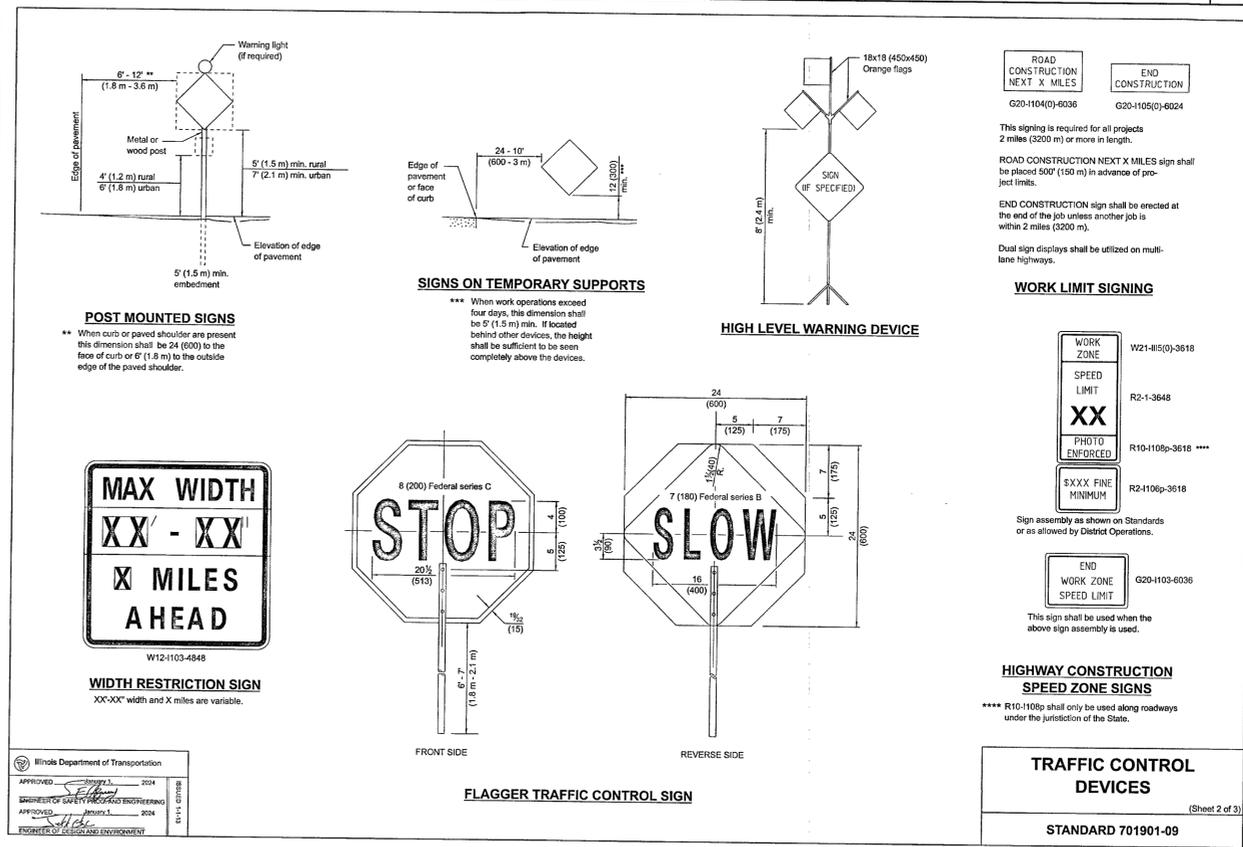
**SITE DETAILS**



1 TRAFFIC CONTROL DEVICES  
C1.00 NTS



3 TRAFFIC CONTROL DEVICES  
C1.00 NTS



2 TRAFFIC CONTROL DEVICES  
C1.00 NTS

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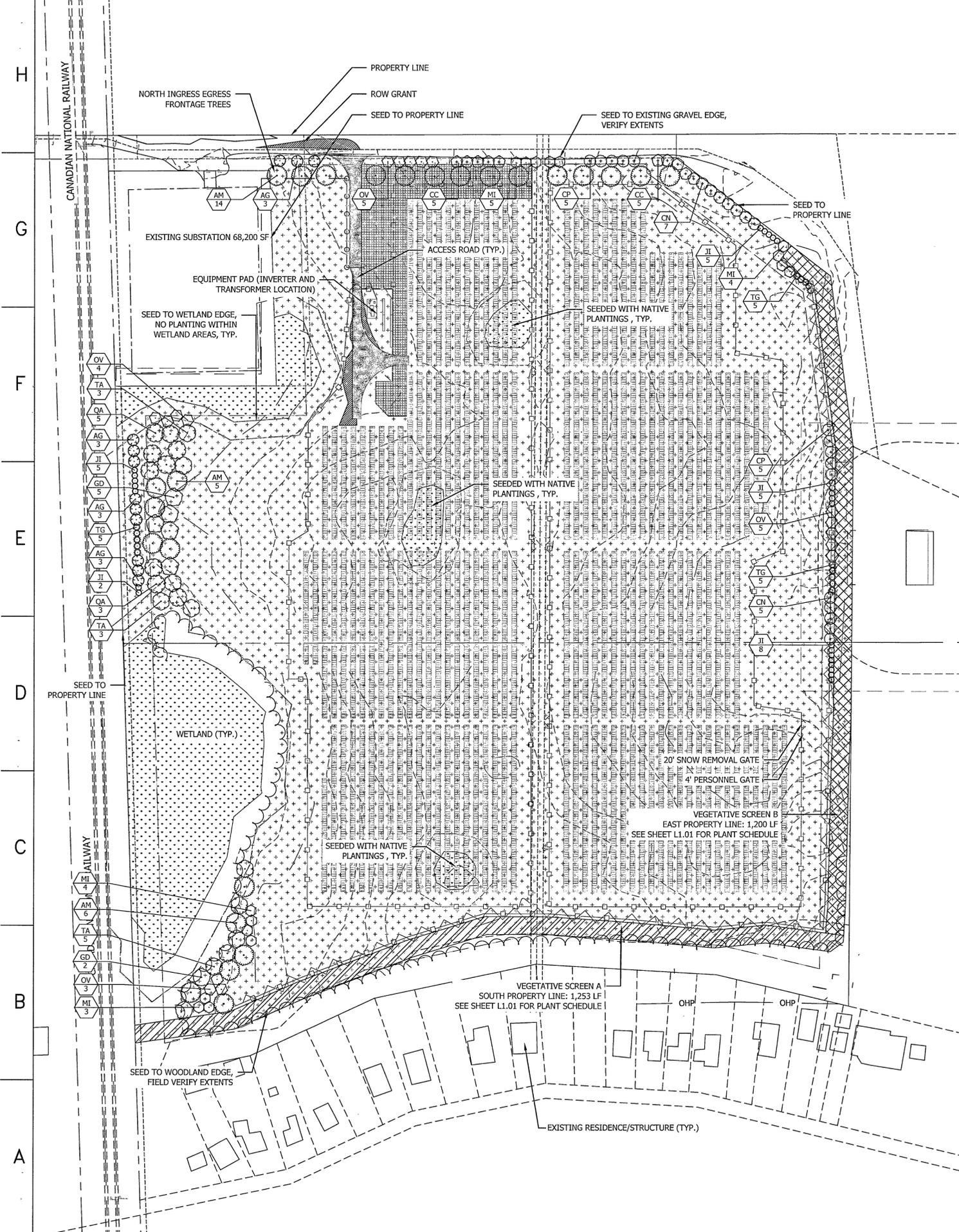
Rev	Issued For	Date	Drawn By	Approved By	Sheets Rev
0	ISSUE REVIEW	10/23/23	EKK	MAC	
1	COUNTY REVISIONS	12/22/23	EKK	MAC	
2	COUNTY REVISIONS	3/6/2024	BKK	MAC	
	CUP SUBMITTAL	7/2/2024	KSR	MAC	

P.E. seal/Consultant: CIVIL ENGINEER  
MATHIEW A. CLEMENTI  
PE 02049423

Project: **LOON LAKE SOLAR**  
LAKE COUNTY, ILLINOIS

Drawing Title: **SITE DETAILS**

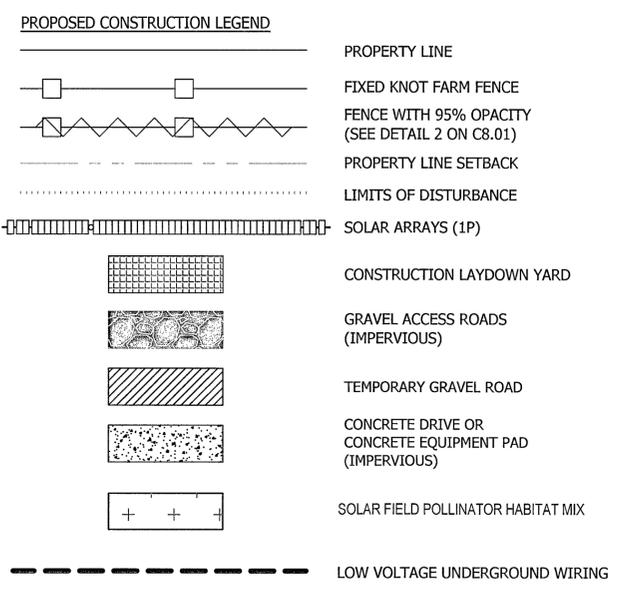
Dwg No: **C8.05** Size: D Sheet Rev:



**SOLAR FIELD POLLINATOR HABITAT MIX**

Common Name	Scientific Name	% of Mix	Seeds/lb
<b>Grasses</b>			
Sideoats Grama	Bouteloua curtipendula	34.25%	9.43
Prairie Bromo	Bromus kalmii	0.80%	0.29
Plains Oval Sedge	Carex brevior	2.80%	3.72
Bicknell's Sedge	Carex bicknellii	0.96%	0.75
Troublesome Sedge	Carex molesta	1.84%	2.11
Brown Fox Sedge	Carex vulpinoidea	2.00%	9.18
Silky Wild Rye	Elymus villosus	6.00%	1.52
Little Bluestem	Schizachyrium scoparium	26.96%	18.57
Prairie Dropseed	Sporobolus heterostepis	0.40%	0.29
<b>Forbs</b>			
Common Yarrow	Achillea millefolium	0.44%	3.63
Nodding Onion	Allium cernuum	0.24%	0.08
Lead Plant	Amorpha canescens	1.33%	0.98
Canada Anemone	Anemone canadensis	0.04%	0.02
Wild Columbine	Aquilegia canadensis	0.04%	0.07
Common Milkweed	Asclepias syriaca	0.34%	0.06
Butterfly Milkweed	Asclepias tuberosa	0.32%	0.06
Canada Milkvetch	Astragalus canadensis	1.08%	0.84
Calico Aster	Symphyotrichum lateriflorum	0.04%	0.48
Partridge Pea	Chamaecrista fasciculata	3.11%	0.39
White Prairie Clover	Dalea candida	4.08%	3.56
Purple Prairie Clover	Dalea purpurea	6.02%	4.98
Cream Gentian	Gentiana flavida	0.04%	0.27
Prairie Blazing Star	Liatris pycnostachya	0.24%	0.12
Virginia Mountain Mint	Pycnanthemum virginianum	0.09%	0.95
Prairie Wild Rose	Rosa arkansana	0.29%	0.03
Black-eyed Susan	Rudbeckia hirta	1.92%	8.13
Gray Goldenrod	Solidago nemoralis	0.04%	0.57
Ohio Goldenrod	Solidago ohioensis	0.04%	0.21
Sky Blue Aster	Symphyotrichum oolentangense	0.16%	0.57
Ohio Spiderwort	Tradescantia ohioensis	0.24%	0.09
Hoary Vervain	Verbena stricta	1.44%	1.85
Golden Alexanders	Zizia aurea	2.40%	1.21

Seeding rate: 12.5 lbs./acre (75 sees/square foot)



**MUNICIPAL LANDSCAPE REQUIREMENTS**

- NORTH INGRESS EGRESS EASEMENT: 2 CANOPY TREES PER 100 FT. FRONTAGE
  - 688 LF.
  - REQUIRED TREES: 14
  - PROVIDED TREES: 14
- SOUTH PROPERTY LINE: 30' BUFFER YARD CONTAINING 3 PLANT UNITS PER 100 LF.
  - 1,253 LF.
  - REQUIRED PLANT UNITS: 38
  - PROVIDED PLANT UNITS: 38
- EAST PROPERTY LINE: 30' BUFFER YARD CONTAINING 3 PLANT UNITS PER 100 LF.
  - 1,200 LF.
  - REQUIRED PLANT UNITS: 36
  - PROVIDED PLANT UNITS: 36
- MITIGATION: 2.1 ACRES
  - REQUIRED TREES
    - CANOPY TREES (3 INCH): 21
    - CANOPY TREES (2 INCH): 42
    - UNDERSTORY TREES (2 INCH): 63
  - PROPOSED TREES
    - CANOPY TREES (3 INCH): 21
    - CANOPY TREES (2 INCH): 42
    - UNDERSTORY TREES (2 INCH): 63

**PLANT SCHEDULE - TREE MITIGATION & NORTH INGRESS EGRESS FRONTAGE**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
<b>EVERGREEN TREES</b>						
	J1	25	JUNIPERUS VIRGINIANA 'IDYLLWILD'	IDYLLWILD EASTERN REDCEDAR	B&B	6' HT.
	TG	15	TSUGA CANADENSIS 'GOLDEN SPLENDOR'	GOLDEN SPLENDOR EASTERN HEMLOCK	B&B	6' HT.
<b>OVERSTORY TREES</b>						
	AM	25	ACER SACCHARUM 'UNITY'	UNITY SUGAR MAPLE	B&B	2"
	GD	7	GYMNOCLADUS DIOICA 'ESPRESSO'	KENTUCKY COFFEETREE	B&B	3"
	QA	8	QUERCUS ALBA 'SPRING DUG'	WHITE OAK	B&B	3"
	TA	11	TILIA AMERICANA	AMERICAN LINDEN	B&B	3"
<b>UNDERSTORY TREES</b>						
	AG	12	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' MULTI-STEM	AUTUMN BRILLIANCE APPLE SERVICEBERRY	B&B	6' HT.
	CC	10	CARPINUS CAROLINIANA MULTI-STEM	MUSCLEWOOD	B&B	2"
	CN	12	CERCIS CANADENSIS 'NORTHERN STRAIN'	NORTHERN STRAIN EASTERN REDBUD	B&B	2"
	CP	10	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	B&B	2"
	MI	16	MALUS IOENSIS	PRAIRIE CRABAPPLE	B&B	2"
	OV	17	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	B&B	2"

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Approved By: \_\_\_\_\_

Drawn By: \_\_\_\_\_

Date: 10/23/23

Issued For: SCIP REVIEW

Rev: 0

Sheets Rev: \_\_\_\_\_

MAC

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12/23/23

COUNTY REVISIONS

1

3/6/2024

COUNTY REVISIONS

2

7/2/2024

CIP SUBMITTAL

KSR

P.E. seal/Consultant: CIVIL ENGINEER

MATTHEW A. CLEMENTI  
PE 02659923

LOON LAKE SOLAR

LAKE COUNTY, ILLINOIS

LANDSCAPE PLAN

MSF

Dwg No: L1.00

Size: D

Sheet Rev: 2

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PLANT SCHEDULE: VEGETATIVE SCREEN A - SOUTH PROPERTY LINE (1,253 LF)

QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	CAL	MATURE HEIGHT
<b>CANOPY TREE (37)</b>						
13	UD	ULMUS DAVIDIANA JAPONICA 'DISCOVERY'	DISCOVERY ELM	B&B	3"	40'
12	GI	GLEDITSIA TRIACANTHOS INERMIS 'IMPCOLE'	IMPERIAL HONEY LOCUST	B&B	3"	35'
12	AA	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	AUTUMN SPLENDOR BUCKEYE	B&B	3"	2"
<b>UNDER STORY TREE (74)</b>						
26	MI	MALUS IOENSIS	PRAIRIE CRABAPPLE	B&B	2"	20'
24	GI	GLEDITSIA TRIACANTHOS INERMIS 'IMPCOLE'	IMPERIAL HONEY LOCUST	B&B	2"	35'
24	AA	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	AUTUMN SPLENDOR BUCKEYE	B&B	2"	35'
<b>EVERGREEN TREE (74)</b>						
26	PC	PINUS CEMBRA	SWISS STONE PINE	B&B	8' HT.	40'
24	TG	TSUGA CANADENSIS 'GOLDEN SPLENDOR'	GOLDEN SPLENDOR HEMLOCK	B&B	8' HT.	30'
24	JL	JUNIPERUS VIRGINIANA 'IDYLLWILD'	IDYLLWILD EASTERN REDCEDAR	B&B	8' HT.	16'
<b>SHRUBS (259)</b>						
91	DL	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	5 GAL.		4'
84	PN	PHYSOCARPUS OPULIFOLIUS	NINEBARK	5 GAL.		7'
84	CR	CORNUS ALBA 'REGNZAM'	RED GNOME DOGWOOD	5 GAL.		4'

\*SHRUBS TO BE MIN. 36" HEIGHT AT INSTALLATION



VEGETATIVE SCREEN A

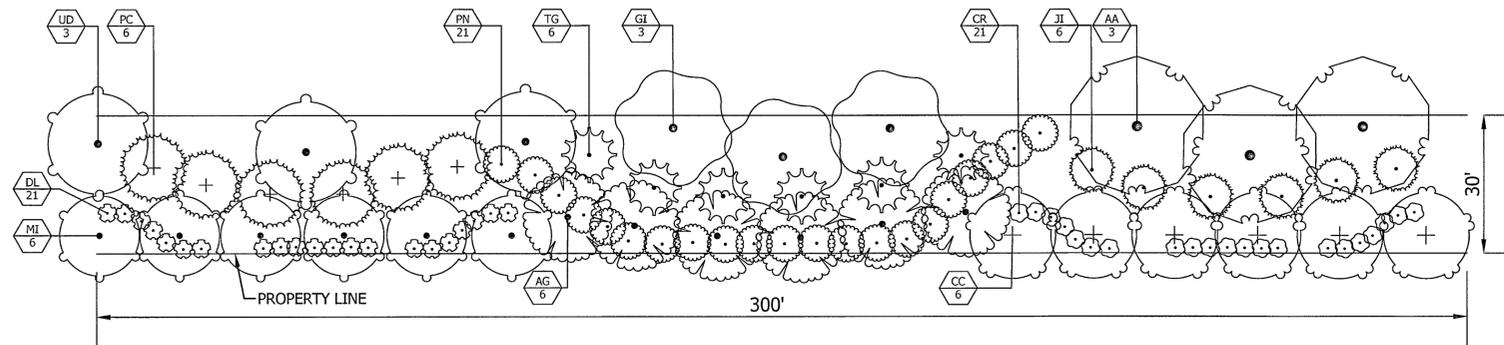
PLANT SCHEDULE: VEGETATIVE SCREEN B - EAST PROPERTY LINE (1,200 LF)

QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	CAL	MATURE HEIGHT
<b>CANOPY TREE (36)</b>						
12	UD	ULMUS DAVIDIANA JAPONICA 'DISCOVERY'	DISCOVERY ELM	B&B	3"	40'
12	GI	GLEDITSIA TRIACANTHOS INERMIS 'IMPCOLE'	IMPERIAL HONEY LOCUST	B&B	3"	35'
12	AA	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	AUTUMN SPLENDOR BUCKEYE	B&B	3"	2"
<b>UNDER STORY TREE (72)</b>						
24	MI	MALUS IOENSIS	PRAIRIE CRABAPPLE	B&B	2"	20'
24	GI	GLEDITSIA TRIACANTHOS INERMIS 'IMPCOLE'	IMPERIAL HONEY LOCUST	B&B	2"	35'
24	AA	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	AUTUMN SPLENDOR BUCKEYE	B&B	2"	35'
<b>EVERGREEN TREE (72)</b>						
24	PC	PINUS CEMBRA	SWISS STONE PINE	B&B	8' HT.	40'
24	TG	TSUGA CANADENSIS 'GOLDEN SPLENDOR'	GOLDEN SPLENDOR HEMLOCK	B&B	8' HT.	30'
24	JL	JUNIPERUS VIRGINIANA 'IDYLLWILD'	IDYLLWILD EASTERN REDCEDAR	B&B	8' HT.	16'
<b>SHRUBS (252)</b>						
84	DL	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	5 GAL.		4'
84	PN	PHYSOCARPUS OPULIFOLIUS	NINEBARK	5 GAL.		7'
84	CR	CORNUS ALBA 'REGNZAM'	RED GNOME DOGWOOD	5 GAL.		4'

\*SHRUBS TO BE MIN. 36" HEIGHT AT INSTALLATION



VEGETATIVE SCREEN B



1 VEGETATIVE SCREEN: PLAN VIEW OF TYPICAL 300' SEGMENT  
L1.01 SCALE: 1"=20'



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P.E. and Consultant: CIVIL ENGINEERS  
MATTIWA CLIENT  
PE 025494933

Project: LOON LAKE SOLAR  
LAKE COUNTY, ILLINOIS

Drawing Title: LANDSCAPE DETAILS

Dwg No: L1.01 Size: D Sheet Rev: 2