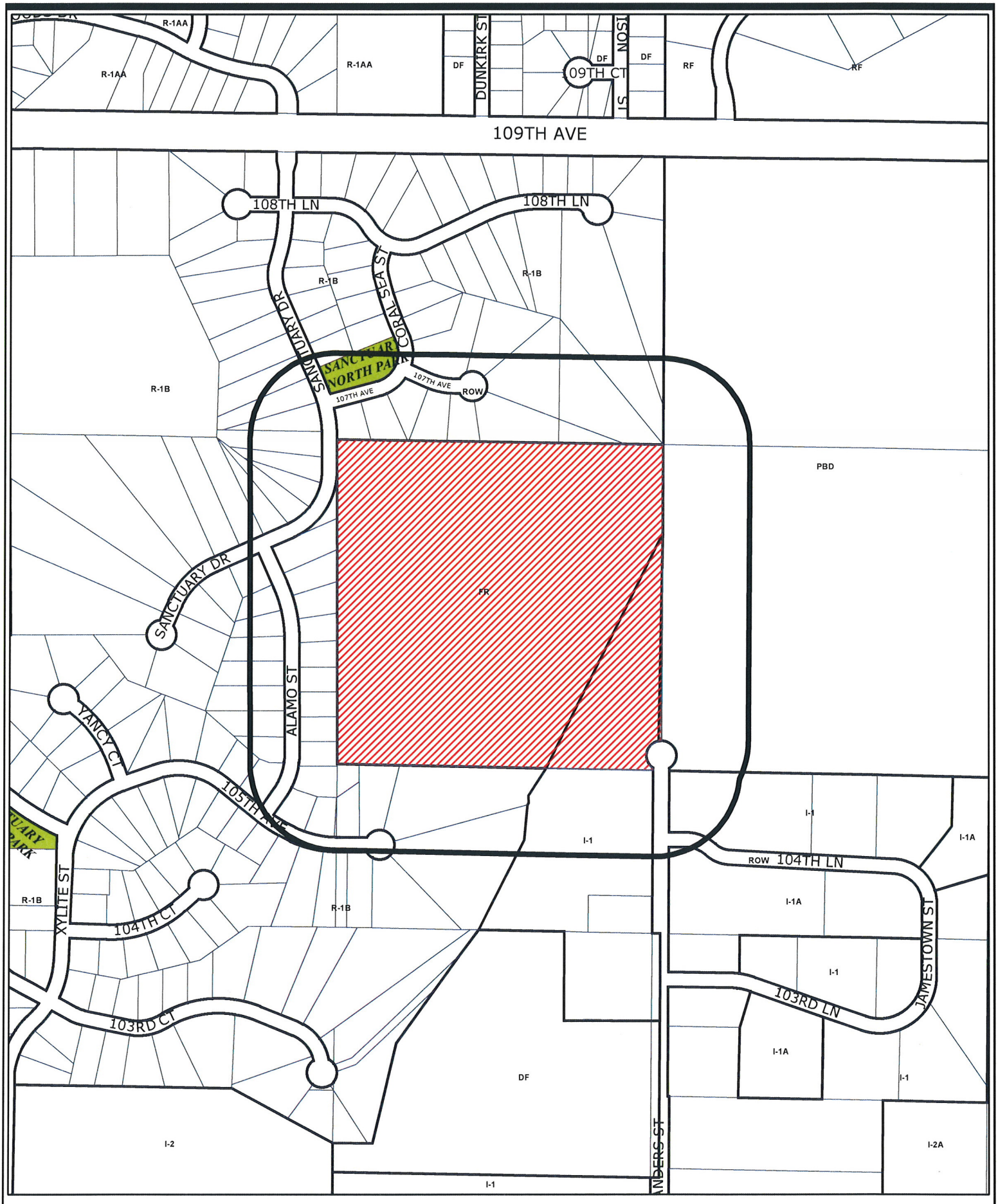

Case File No. 17-0028
SoCore Energy

Blaine Planning Department / 10801 Town Square Dr NE / Blaine, MN 55449 / (763) 785-6180

Applicant Information

Property Owner: National Sports Center Foundation
Mailing Address: 1700 105th Ave NE, Blaine, MN 55449

Contractor/Agent: SoCore Energy
Mailing Address: 225 W Hubbard St, Suite 200, Chicago IL, 60654
Daytime Phone: (773) 360-2244
E-mail: Liz.Kossik@socoreenergy.com

Site Information

Site Address: Approximately 105th Ave & Flanders Street
Property Location: Northwest ¼ of Section 22, Township 31 N, Range 23 W of the Circle Pines, Minnesota

Introduction

SoCore Energy is requesting a Conditional Use Permit to build, own, and operate a photovoltaic energy system (solar farm) in the City of Blaine, MN. The site will consist of approximately 5.4 megawatts and 8 megawatts of energy storage on an estimated 23 acres. The modules will be installed on a ballast racking structure. The maximum height of the panels will be approximately 7' when tilted 25 degrees to the south, depending on soil conditions and final design.

A paved access road will provide year-round access to the site, and a gravel road will provide access to all major equipment throughout the array and the entire system will be surrounded by a 6-foot chain-link fence topped with 1.0 ft of barbed wire for security and safety, as required by the National Electric Code. It is SoCore's intention to cover the site with diverse native vegetation, most likely a low-growth summer meadow or fescue mix which naturally grow to shorter heights, but is subject to change upon a final decision from the Minnesota Pollution Control Agency.

In partnership with Connexus Energy, the project's location was chosen due to the proximity and feasibility for interconnection to their grid. The project will meet or exceed setback requirements, and will meet or exceed all requirements of the National Electric Code and Minnesota state laws to ensure it operates in a safe manner.

SoCore Energy is excited to work with Connexus Energy and communities throughout their service to provide distributed, small-scale, renewable energy resources to the grid as a hedge against long term fuel price volatility.

Construction Traffic Plan

All trucks involved in construction of the solar facility will turn onto 101st Ave from Radisson Rd and take an immediate left hand turn onto Flanders St. Trucks will enter and exit the construction site using the improved (existing) driveway at the west at the end of Flanders St. The first 400 feet of this drive will be 20 feet wide and paved with Asphalt for fire access and dust control.

We approximate the following number of trucks will visit the site during the estimated 8-week construction period. These numbers are cumulative estimates for the entirety of construction:

- 40 "Small" trucks (filling the on-site fuel tank, pumping the porta-johns, or delivering smaller materials like wire, etc).
- 20 "Medium" trucks (box trucks or flatbeds delivering light equipment or individual electrical items)
- 75 "Large" trucks (tractor trailers with modules, racking, large equipment)
- 35 dump trucks (with civil materials or dumpsters)

The Impact Sensitive Routes Map tool on the MNDOT website shows that none of the trucking routes mentioned above are within an impact sensitive area. No roads will need to closed during construction. After construction is complete the site will only be visited as necessary by smaller work trucks / passenger cars. (Typically, 4-6 times annually)

Waste Disposal Plan

Construction material will be staged on site and installed as necessary. Material such as modules, wiring, steel, and concrete will remain on site for the lifetime of the project and recycled at the end of their useful life. Cardboard, silt fencing, and other light waste material will be transported off the site and disposed of properly upon completion of construction. No waste will need to be treated or stored on site.

1

2

3

4

C2.01 - SITE GEOMETRY PLAN - NORTH

C2.02 - SITE GEOMETRY PLAN - SOUTH

N

0 50 100 200

(IN FEET)
SCALE: 1" = 100'

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811

FILE PATH: S:_NEW FOLDER STRUCTURE\PROJECTS\NATIONAL SPORTS CENTER_MN_CONX\ENGINEERING AND DESIGN\DRAWINGS\C2.00 - SITE GEOMETRY PLAN.DWG 9/22/2017 BY: JOE.LAUGHLIN

SoCore Engineering
225 West Hubbard St, Suite 200
Chicago, IL 60654
1-877-SOCORE1

REV	DATE	ISSUE FOR
	09.08.2017	ISSUE FOR ZONING REVIEW

PROJECT NAME
NATIONAL SPORTS CENTER
SOLAR
10655 SANCTUARY DR NE
BLAINE, MN 55449
(45.162828, -93.196716)

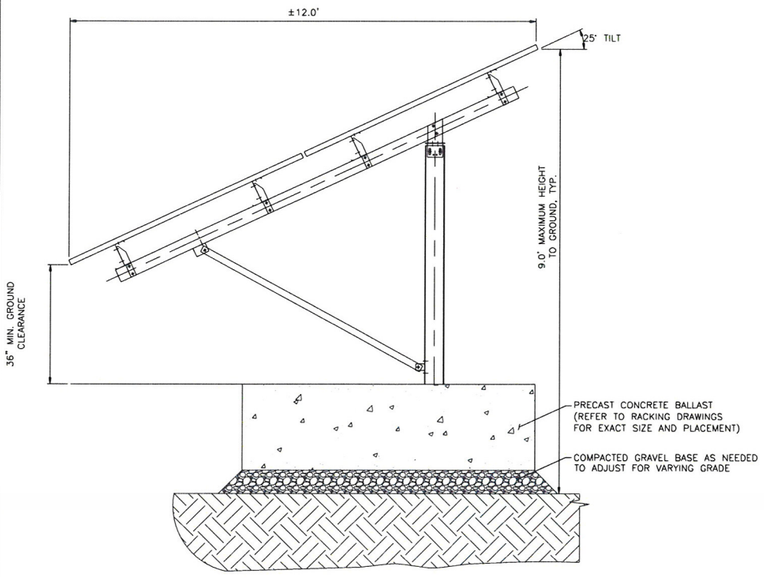
SHEET NAME
SITE GEOMETRY PLAN - OVERALL

DESIGNER	JCL
DRAWN BY	JCL
CHECK	GCM
DATE	8/29/2017
SCALE	AS NOTED
SHEET SIZE	24" X 36"

STAMP

EOR:
CIVIL
GAVIN MEINSCHEIN, PE

SHEET NUMBER
C2.00

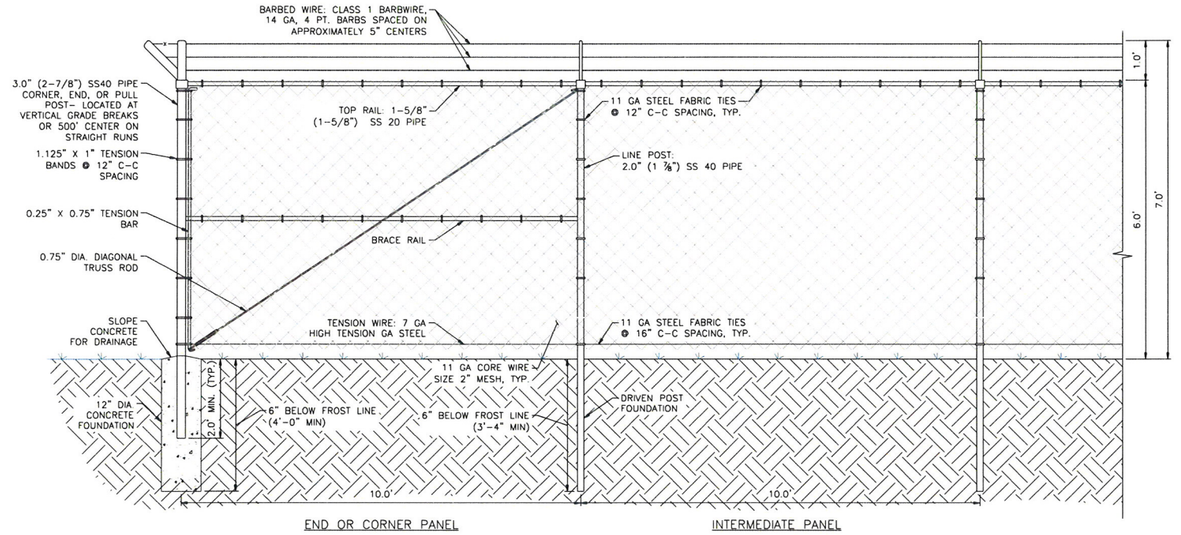


NOTES:

1. REFER TO RACKING INSTALLATION GUIDE FOR DETAILED INSTRUCTIONS

1 FIXED TILT SOLAR RACKING

NOT TO SCALE



END OR CORNER PANEL

INTERMEDIATE PANEL

NOTES:

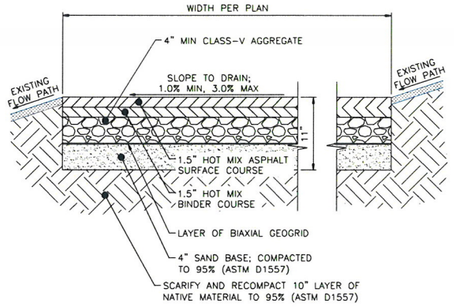
1. CONTRACTOR SHALL SUBMIT MANUFACTURER'S SHOP DRAWINGS FOR FENCING AND GATE DESIGN TO EOR FOR APPROVAL.
2. DETAIL PROVIDED SHOWS SCHEMATICALLY WHAT IS EXPECTED FOR DESIGN AND QUALITY.
3. ALL FENCING, GATES, AND ACCESSORIES SHALL BE GALVANIZED PER ASTM A123/A123M OR ASTM A153/A153M-09.
4. ALL CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI.

STEEL POST AND FOUNDATION SCHEDULE			
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (ROUND TUBE)	WALL THICKNESS	FOUNDATION TYPE (REFER TO DRAWING FOR EMBEDMENT DEPTHS*)
CORNER, END & PULL POSTS	3.0" (2-7/8") O.D.	SS 40	12" DIA. CONCRETE FOUNDATION - 48" DEPTH
LINE POSTS	2.0" (1-7/8") O.D.	SS 40	DRIVEN POST FOUNDATION
GATE POSTS	4.0" (4.0") O.D.	SS 40	18" DIA. CONCRETE FOUNDATION - 54" DEPTH
GATE FRAME	PROVIDE SUBMITTAL FOR GATE DESIGN		N/A
BRACE RAILS	1-5/8" (1-5/8") O.D.	SS 20	N/A

*CONFIRM EMBEDMENT DEPTHS WITH MANUFACTURER RECOMMENDATIONS

2 CHAINLINK SECURITY FENCE

NOT TO SCALE

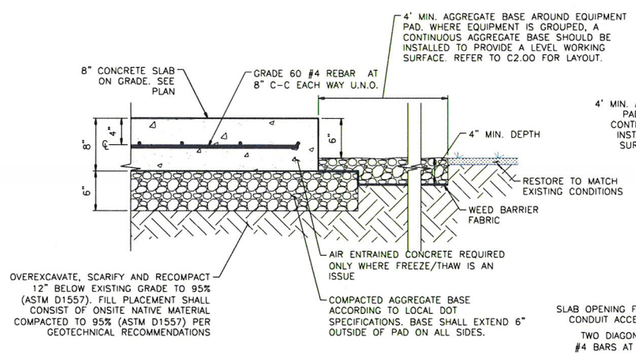


NOTES:

1. REFER TO EROSION CONTROL DETAILS FOR CONSTRUCTION ENTRANCE DETAILS.
2. REFER TO EARTHWORK SPECIFICATIONS FOR AGGREGATE AND GEOTEXTILE FABRIC REQUIREMENTS.
3. ACCESS ROADWAYS SHALL BE CONSTRUCTED IN A WAY THAT MAINTAINS EXISTING DRAINAGE FLOW PATHS AND PREVENTS PONDING OF STORMWATER.

3 ASPHALT ACCESS DRIVE

NOT TO SCALE



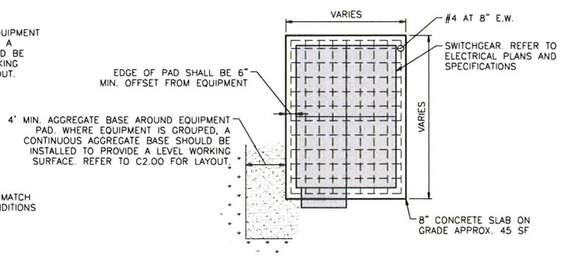
TYPICAL PROFILE VIEW

NOTES:

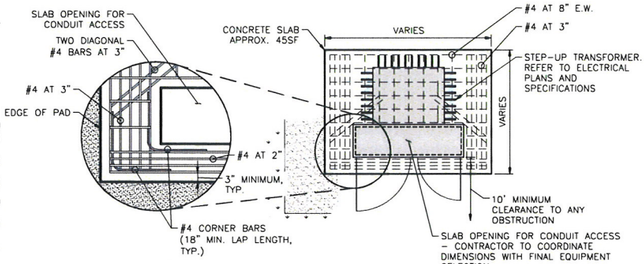
1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST EDITIONS.
2. ALL CONCRETE (145 P.C.F.) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI.
3. CONTRACTOR TO REFER TO EQUIPMENT SHOP DRAWINGS FOR FINAL PAD SIZE AND LOCATIONS OF ANCHOR BOLTS.
4. CONTROL JOINTS FOR SLABS-ON-GRADE SHALL BE IN A SQUARE PATTERN AND BE NOT MORE THAN 20 FT. O.C., UNLESS OTHERWISE NOTED.
5. EXPANSION JOINTS FOR SLAB-ON-GRADE SHALL BE NOT MORE THAN 50 FT O.C., UNLESS OTHERWISE NOTED.
6. ALL REINFORCEMENT SHALL BE GRADE 60 STEEL. REBAR TO BE 3" FROM ALL CONCRETE EDGES.
7. SEE CONCRETE AND REINFORCING SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. ALL AGGREGATE SHALL BE ASTM NO. 57 GRADATION OR SIMILAR.

4 ELECTRICAL EQUIPMENT PAD

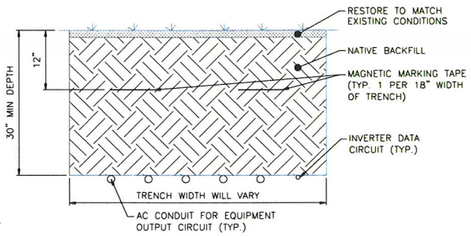
NOT TO SCALE



PLAN VIEW - SWITCHGEAR PAD



PLAN VIEW - TRANSFORMER PAD



NOTES:

1. ONCE ALL ELECTRICAL CONDUITS ARE IN PLACE, RE-COMPACT THE DISTURBED SOIL.
2. TOP SOIL SHOULD BE SET ASIDE AND ONLY USED TO TOP OFF AREAS WHERE VEGETATION IS PROPOSED.
3. ONSITE NON-ORGANIC SOILS ARE SUITABLE FOR USE AS BACKFILL. CONTRACTOR TO ENSURE THAT SOILS ARE FREE OF DEBRIS CAPABLE OF DAMAGING CONDUIT OR CONDUCTORS. REFER TO EARTHWORK SPECIFICATIONS AND THE GEOTECHNICAL REPORT FOR MORE INFORMATION.
4. COMPACT AROUND THE CONDUIT OR CONDUCTORS IN 10" LIFTS TO 95% PER THE MODIFIED PROCTOR DENSITY TEST. (ASTM D1557)
5. THE TOP PORTION OF TRENCHED AREAS BELOW PAVEMENT/GRAVEL SHALL BE COMPACTED TO 95% PER THE MODIFIED PROCTOR DENSITY TEST. (ASTM D1557)
6. THE TOP PORTION OF TRENCHED AREAS BELOW LANDSCAPING SHALL BE COMPACTED TO 80% PER THE MODIFIED PROCTOR DENSITY TEST. (ASTM D1557)
7. LAYOUT AND DIMENSIONS SHOWN ARE TYPICAL. REFER TO ELECTRICAL SHEETS E1.00 SERIES AND E4.00 FOR MORE DETAIL.

5 CONDUIT TRENCH DETAIL

NOT TO SCALE

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SoCore Engineering
225 West Hubbard St. Suite 200
Chicago, IL 60654
1-877-SOCORE1

REV	DATE	ISSUE
	09.08.2017	ISSUE FOR ZONING REVIEW

PROJECT NAME
NATIONAL SPORTS CENTER
SOLAR
10655 SANCTUARY DR NE
BLAINE, MN 55449
(45.162828, -93.196716)

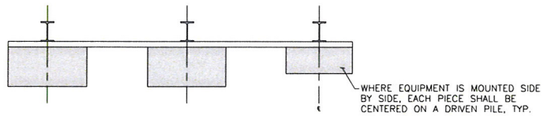
SHEET NAME
SITE DETAILS

DESIGNER	JCL	DATE	8/29/2017
DRAWN BY	JCL	SCALE	AS NOTED
CHECK	GCM	SHEET SIZE	24" X 36"

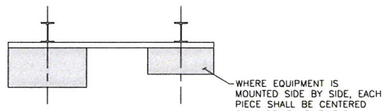
STAMP

EOR
CIVIL
GAVIN MEINSCHEIN, PE

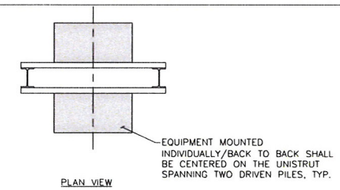
SHEET NUMBER
C2.10



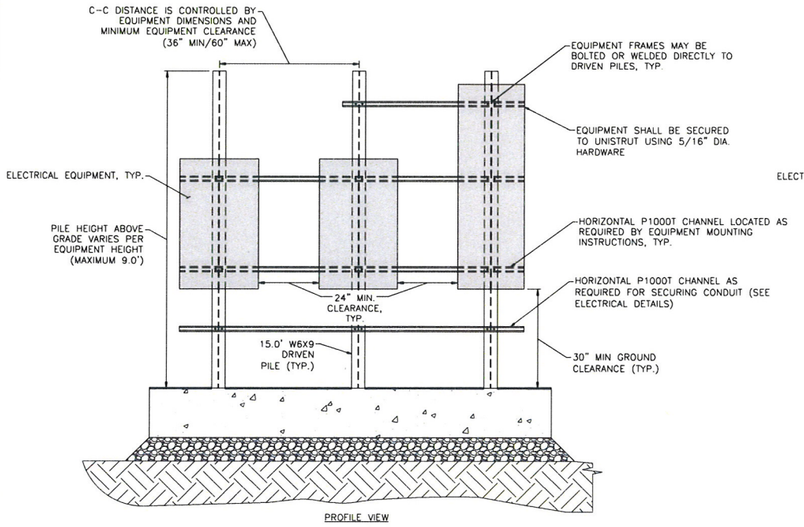
PLAN VIEW



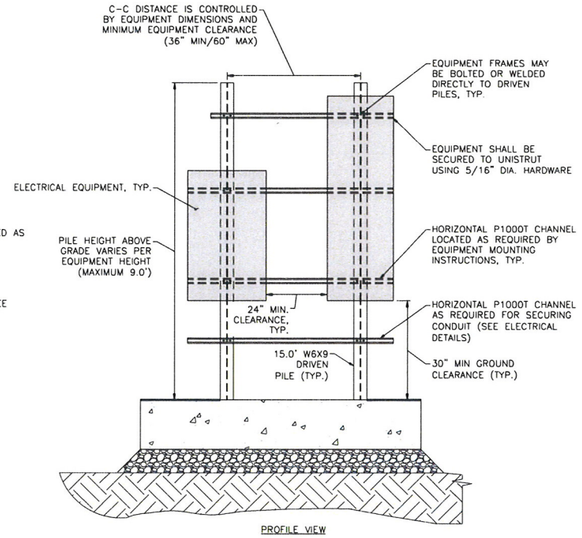
PLAN VIEW



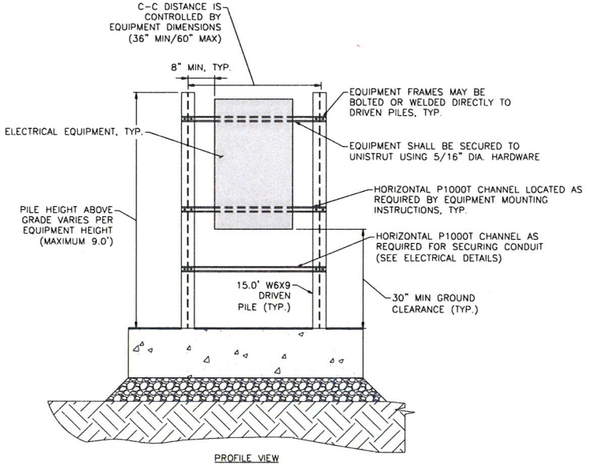
PLAN VIEW



PROFILE VIEW



PROFILE VIEW



PROFILE VIEW

NOTES:
1. REFER TO ELECTRICAL EQUIPMENT SPECIFICATIONS FOR INFORMATION ON MOUNTING AND REQUIRED CLEARANCES.
2. MAXIMIZE DRIVEN PILE EMBEDMENT DEPTH (6.0' MIN.) WHILE MAINTAINING MINIMUM GROUND CLEARANCES SHOWN, LEAVING ENOUGH EXPOSED PILE FOR EQUIPMENT MOUNTING. FINAL DESIGN WILL BE CONTINGENT ON SPECIFIC EQUIPMENT PROVIDED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING FINAL EQUIPMENT SPECIFICATIONS.
3. 5/16" ø HARDWARE TYP. AT ALL MOUNTED EQUIPMENT CONNECTIONS TO UNISTRUT CHANNELS.
4. ALL WELDING ELECTRODES SHALL BE E-70XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1-88 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY QUALIFIED CERTIFIED WELDERS. CONTRACTOR TO REMOVE UNISTRUT GALVANIZATION PRIOR TO WELDING USING AN SSPC-SP STANDARD AND RE-GALVALIZE TO ASTM A123 AFTER WELDING.

6 ELECTRICAL EQUIPMENT FRAME

NOT TO SCALE

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PROJECT NAME: NATIONAL SPORTS CENTER SOLAR
10655 SANCTUARY DR NE
BLAINE, MN 55449
(45.162828, -93.196716)

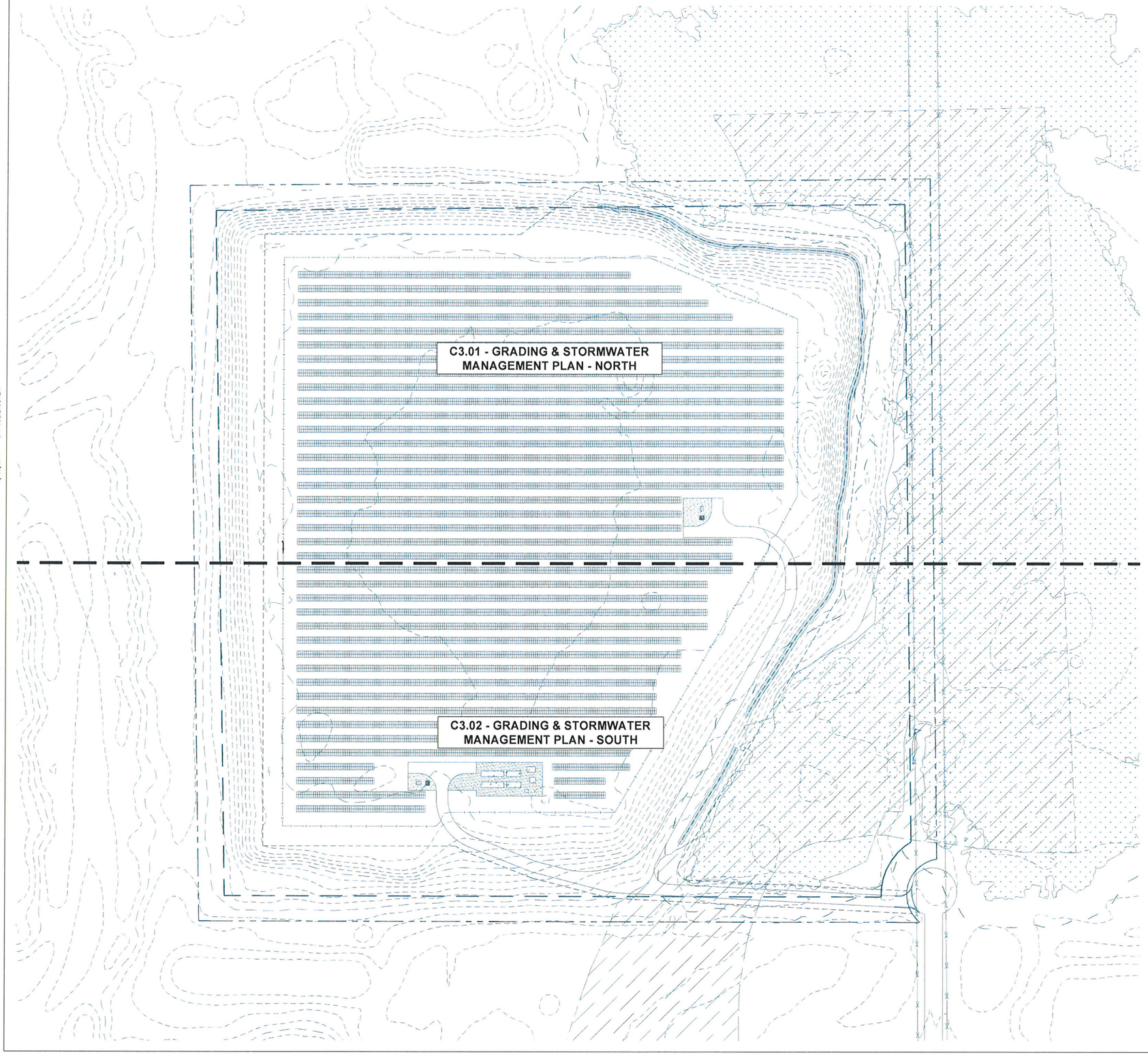
SHEET NAME: SITE DETAILS

DESIGNER	JCL	DATE: 8/29/2017
DRAWN BY	JCL	SCALE: AS NOTED
CHECK	GCM	SHEET SIZE: 24" X 36"

STAMP

EOR: CIVIL
GAVIN MEINSCHEIN, PE

SHEET NUMBER
C2.11



0 50 100 200

(IN FEET)

SCALE: 1" = 100'

NOTES:

1. ALL SOIL EXCAVATED FOR STORMWATER SWALES CAN AND SHOULD REMAIN ON SITE.
2. PROPOSED SWALES ARE DESIGNED TO MEET MPCA STORMWATER REQUIREMENTS.
3. NO PONDING IS PROPOSED AS THE SITE WILL NOT DISCHARGE STORMWATER FOR SMALL RAINFALL EVENTS.
4. THE PROPOSED DEVELOPMENT WILL NOT ALTER THE EXISTING DRAINAGE PATTERNS AND THE PROPOSED SEEDING WILL REDUCE THE OVERALL VOLUME OF RUNOFF AND IMPROVE THE WATER QUALITY OF THE STORMWATER RUNOFF.

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SOLAR
10655 SANCTUARY DR NE
BLAINE, MN 55449
(45.162828, -93.196716)

SHEET NAME
GRADING & STORMWATER MANAGEMENT PLAN - OVERALL

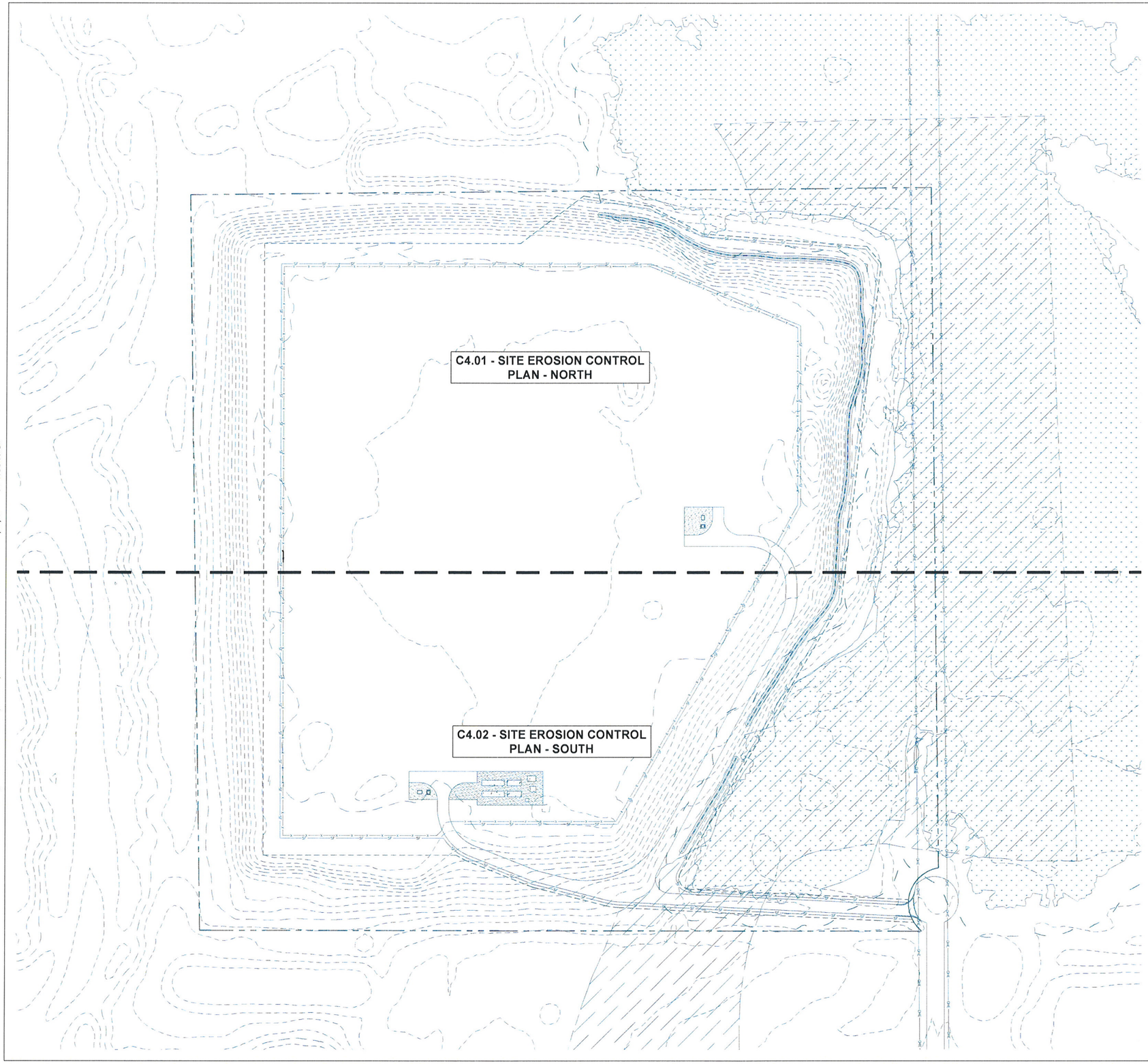
DESIGNER	JCL	DATE	8/29/2017
DRAWN BY	JCL	SCALE	AS NOTED
CHECK	GCM	SHEET SIZE	24" X 36"

STAMP

EOR: CIVIL
GAVIN MEINSCHEIN, PE

SHEET NUMBER
C3.00

FILE PATH: S:_NEW FOLDER STRUCTURE\PROJECTS\NATIONAL SPORTS CENTER_MN_CONX\ENGINEERING AND DESIGN\DRAWINGS\C3.00 - GRADING & STORMWATER MANAGEMENT PLAN.DWG 9/22/2017 BY: JOE.LAUGHLIN



0 50 100 200

(IN FEET)

SCALE: 1" = 100'

SEDIMENT AND EROSION CONTROL:

THE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH BY ANOKA COUNTY, AND THOSE SET FORTH TO IMPLEMENT THE PERFORMANCE STANDARDS OF THE MINNESOTA POLLUTION CONTROL AGENCY FOR EROSION/SEDIMENT CONTROL OR STORM WATER MANAGEMENT DURING CONSTRUCTION. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN/STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THE FOLLOWING MEASURES, UTILIZING APPROPRIATE BEST MANAGEMENT PRACTICES:

THE BMPS USED TO CONTROL EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED AS FOLLOWS:

A. EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED OR INSTALLED BEFORE LAND DISTURBING CONSTRUCTION ACTIVITIES BEGIN IN ACCORDANCE WITH THE PLAN DEVELOPED FOR THIS SITE.
B. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION.
C. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
D. TEMPORARY STABILIZATION WILL COMMENCE AS SOON AS POSSIBLE AFTER LAND DISTURBANCE CEASES. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
E. BMPS THAT ARE NO LONGER NECESSARY FOR EROSION AND SEDIMENT CONTROL SHALL BE REMOVED BY SOCORE.

2. TEMPORARY SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION SITE PRIOR TO COMMENCEMENT OF SITE DISTURBANCE IN ACCORDANCE WITH MNDNR STANDARDS. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE DEPOSITS HAVE ACCUMULATED TO 1/2 THE HEIGHT OF THE FENCE. TORN, DEGRADED, TRAMPLED, OR OTHERWISE COMPROMISED SILT FENCE WILL BE PROPERLY REPLACED.
3. A STONE TRACKING PAD (50 FEET LONG) SHALL BE INSTALLED, UNDERLAIN BY A BIAXIAL GEOGRID. THE TRACKING PAD WILL CONSIST OF 1 – 3" CLEAR OR WASHED STONE, INSTALLED AND MAINTAINED TO A THICKNESS OF 12-INCHES DEPENDENT ON SITE SOIL CONDITIONS. THE TRACKING PADS WILL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE. IF CONDITIONS ON THE SITE ARE SUCH THAT THE SEDIMENT IS NOT REMOVED FROM VEHICLE TIRES BY THE TRACKING PAD, THEN TIRES SHALL BE WASHED UTILIZING PRESSURIZED WATER BEFORE ENTERING A PUBLIC ROAD. STONE TRACKING PAD AND TIRE WASHING SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH MNDNR STANDARDS.
4. A STAGING AND PARKING AREA SHALL BE DESIGNATED FOR MATERIAL LAYDOWN. STORAGE OF ALL EQUIPMENT AND CONSTRUCTION MATERIALS SHALL BE STORED ACCORDING TO ALL FEDERAL AND STATE STANDARDS.
5. A CONCRETE WASHOUT AREA, FUELING AREA, AND VEHICLE WASH AREA WILL BE LOCATED IN THE VICINITY OF THE DESIGNATED CONSTRUCTION ENTRANCE. CONCRETE WASHOUT WATER WILL BE CONTAINED AND DISPOSED PROPERLY. AN IMPERVIOUS SURFACE (SUCH AS POLYMER BARRIER) WILL BE UTILIZED SURROUNDING THE MOBILE FUELING TANK AND FUELING AREA. CONTRACTOR TO KEEP A SPILL RESPONSE KIT ONSITE THROUGHOUT CONSTRUCTION. CONCRETE WASHOUT AND VEHICLE FUELING AREA SHALL BE IMPLEMENTED IN ACCORDANCE WITH MNDNR STANDARDS.
6. A TEMPORARY BALE SEDIMENT BARRIER WILL BE UTILIZED TO INTERCEPT SEDIMENT-LADEN SHEET FLOW, IF NEEDED, CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED STRAW BALES. AT A MINIMUM, SEDIMENT BALE BARRIERS SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH THE ENDS OF ADJACENT SEDIMENT BALE BARRIERS TIGHTLY ABUTTING ONE ANOTHER. THE HOLES BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) WITH STRAW OR EQUIVALENT MATERIAL TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.
7. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES INDICATED TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR; CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
8. DUST CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WATERING DOWN EXPOSED DIRT AND GRAVEL ACCESS ROADS, IF NEEDED.
9. EXISTING TREES OR VEGETATION INDICATED TO REMAIN SHALL BE AVOIDED AND FENCED OFF APPROPRIATELY TO AVOID ANY CONFUSION. CONTRACTOR SHALL AVOID DAMAGING ANY EXISTING VEGETATION TO MINIMIZE POTENTIAL EROSION.
10. NO DEWATERING ACTIVITIES ARE PLANNED. IF DEWATERING BECOMES NECESSARY, IT SHALL BE CONDUCTED IN ACCORDANCE WITH MNDNR STANDARDS. CONTRACTOR TO INSTALL TEMPORARY SETTLING BASIN OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICE AS NECESSARY AND LOCATE IN UPLAND AREAS. DEWATERING DIRECTLY INTO FIELD TILES, STORM SEWERS OR OFF-SITE WETLANDS IS PROHIBITED.
11. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE SOIL DISTURBANCE. ALL TEMPORARY SEEDING ACTIVITIES SHALL BE IMPLEMENTED IN ACCORDANCE WITH MNDNR STANDARDS.
12. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. INSPECTIONS MUST BE CONDUCTED WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. NECESSARY REPAIRS OR REPLACEMENTS OF PRACTICES MUST BE MADE WITHIN 24 HOURS OF INSPECTION. WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS MUST MAINTAINED AT THE CONSTRUCTION SITE.
13. THE TEMPORARY EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS PERMANENTLY STABILIZED AT A MINIMUM 70% UNIFORM COVER OF VEGETATION.

PERMANENT SITE STABILIZATION:

1. COMPACTED SOILS WILL BE TILLED OR PREPPED TO APPROXIMATELY 4 INCHES.
2. SEEDING DATES FOR NATIVE WILDFLOWER AND GRASS SPECIES WILL BE DURING THE SPRING OR SUMMER BEFORE AUGUST 10TH OR IN THE FALL BETWEEN SEPTEMBER 20TH AND FREEZE-UP.
3. IN LARGER OPEN AREAS, GRASS SEED WILL BE APPLIED WITH A SEED DRILL DESIGNED FOR NATIVE SEEDING (TRUAX® OR EQUIVALENT). IN ALL OTHER AREAS, GRASS AND NATIVE SEED WILL BE APPLIED VIA BROADCASTING. WILDFLOWER SEED WILL BE APPLIED BY BROADCASTING.
4. PROPER STABILIZATION WILL BE ACHIEVED WHEN THE SITE HAS BEEN UNIFORMLY STABILIZED TO A MINIMUM OF 70% GROUND COVER.
5. ALL SEEDING FOR CONSTRUCTION SITES SHALL BE IMPLEMENTED IN ACCORDANCE WITH MNDNR STANDARDS.

CONSTRUCTION SEQUENCE:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT AND TRACKING PAD TO REDUCE TRACKING OF SEDIMENT OFF SITE.
2. INSTALL SILT FENCE ON THE DOWN-SLOPE PERIMETER OF THE PROJECT SITE.
3. PREPARE CONTRACTOR STAGING/LAYDOWN AREA FOR TEMPORARY PARKING, STORAGE, WHEEL WASH AREA, CONCRETE WASH-OUT, AND MOBILE FUELING AREAS.
4. SMOOTHING THE SITE WILL BE LIMITED TO REMOVING RESIDUAL FURROWS (IF ANY) CREATED DURING FARMING ACTIVITIES IN PREVIOUS GROWING SEASONS. SMOOTHING ACTIVITIES SHOULD BE AVOIDED DURING EXTREMELY WET CONDITIONS TO MINIMIZE SOIL COMPACTION, DEEP RUTTING AND SOIL SMEARING.
5. USE DISKS, TILLERS, OR HARROWS TO BREAK UP THE SURFACE WHERE SOIL HAS BECOME COMPACTED DURING CONSTRUCTION ACTIVITIES IN ORDER TO CREATE VIABLE SEED BEDS.
6. AS SOON AS ANY CONSTRUCTION ACTIVITY IS COMPLETE IN AN AREA, APPLY A COVER CROP OF AN ANNUAL GRASS SPECIES THAT GERMINATES QUICKLY TO REDUCE THE RISK OF SOIL EROSION ON THE SITE. OATS WILL BE USED FOR A SPRING OR SUMMER SEEDING, WINTER WHEAT FOR A FALL SEEDING. THIS COVER CROP WILL ESTABLISH QUICKLY, PROVIDING ADDITIONAL EROSION CONTROL THROUGHOUT CONSTRUCTION, ALONG WITH PROTECTION OF FINAL NATIVE VEGETATION DURING ITS ESTABLISHMENT PERIOD.
7. INSTALL THE PERIMETER FENCING LEAVING SECTIONS OPEN FOR INGRESS/EGRESS; TEMPORARY FENCING SHALL BE USED TO MAINTAIN SITE SECURITY.
8. FOUNDATION PILE DRIVING AND TRENCHING FOR UNDERGROUND UTILITIES SHALL BE STAGED TO CONCENTRATE WORK IN PHASES, TO REDUCE SITE DISTURBANCE. SEED AND MULCH ANY AREAS AS THEY ARE COMPLETED.
9. ONCE SITE CONSTRUCTION IS COMPLETE, PERMANENT SEEDING WITH NATIVE SEED WILL BE APPLIED BY BROADCASTING.
10. TO ASSURE RAPID STABILIZATION, SUPPLEMENT SEEDING FOR AREAS WHERE COVERAGE IS LESS THAN 70% UNIFORM COVER OF VEGETATION.
11. ONCE THE SITE IS PERMANENTLY STABILIZED AT 70% UNIFORM COVER OF VEGETATION OR MORE, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.

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REV	DATE	ISSUE FOR
	09.08.2017	ISSUE FOR ZONING REVIEW

PROJECT NAME
NATIONAL SPORTS CENTER SOLAR
10655 SANCTUARY DR NE
BLAINE, MN 55449
(45.162828, -93.196716)

SHEET NAME
SITE EROSION CONTROL PLAN - OVERALL

DESIGNER	JCL	DATE	8/29/2017
DRAFTER	JCL	SCALE	AS NOTED
CHECK	GCM	SHEET SIZE	24" X 36"

STAMP

EOR: CIVIL
GAVIN MEINSCHEIN, PE

SHEET NUMBER
C4.00

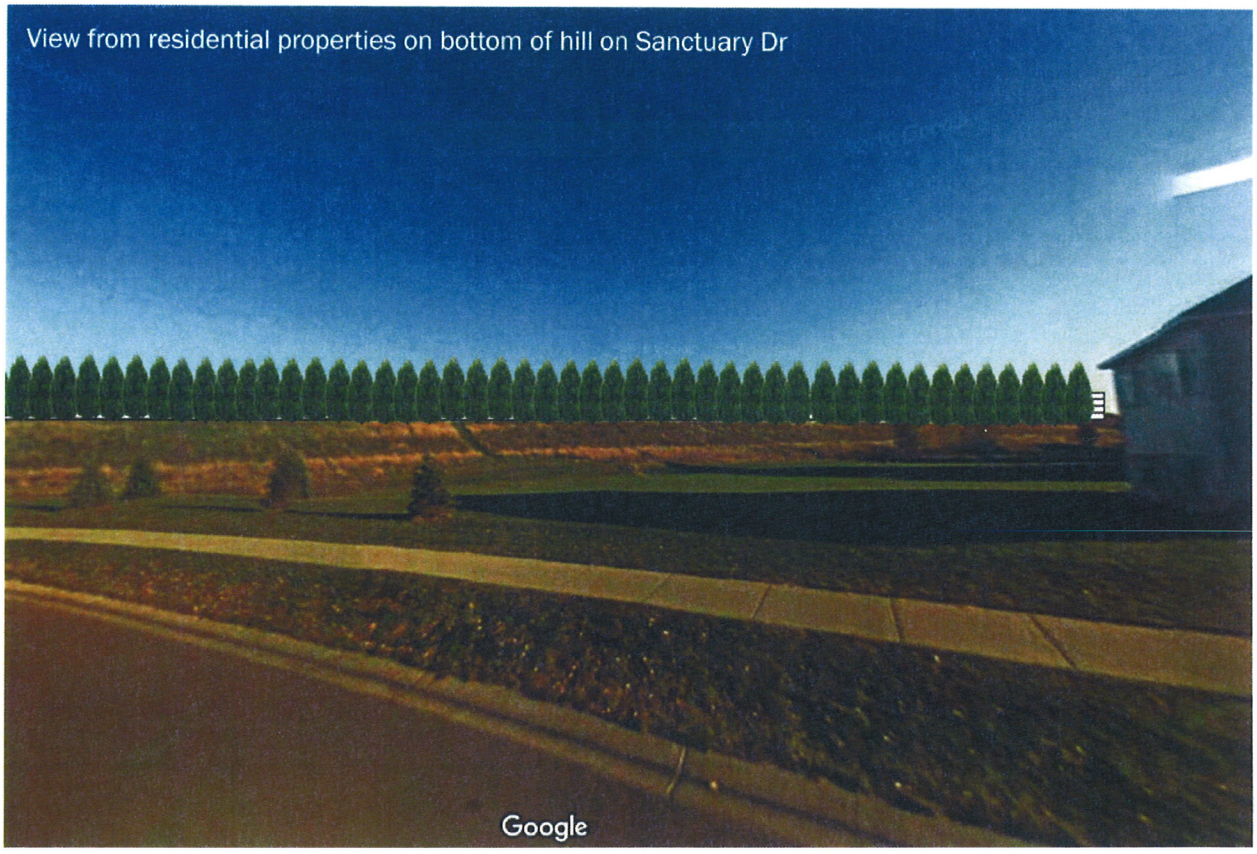
FILE PATH: S:_NEW FOLDER STRUCTURE\PROJECTS\NATIONAL SPORTS CENTER_MN_CONX\ENGINEERING AND DESIGN\DRAWINGS\C4.00 - SITE EROSION CONTROL PLAN.DWG 9/22/2017 BY: JOE.LAUGHLIN

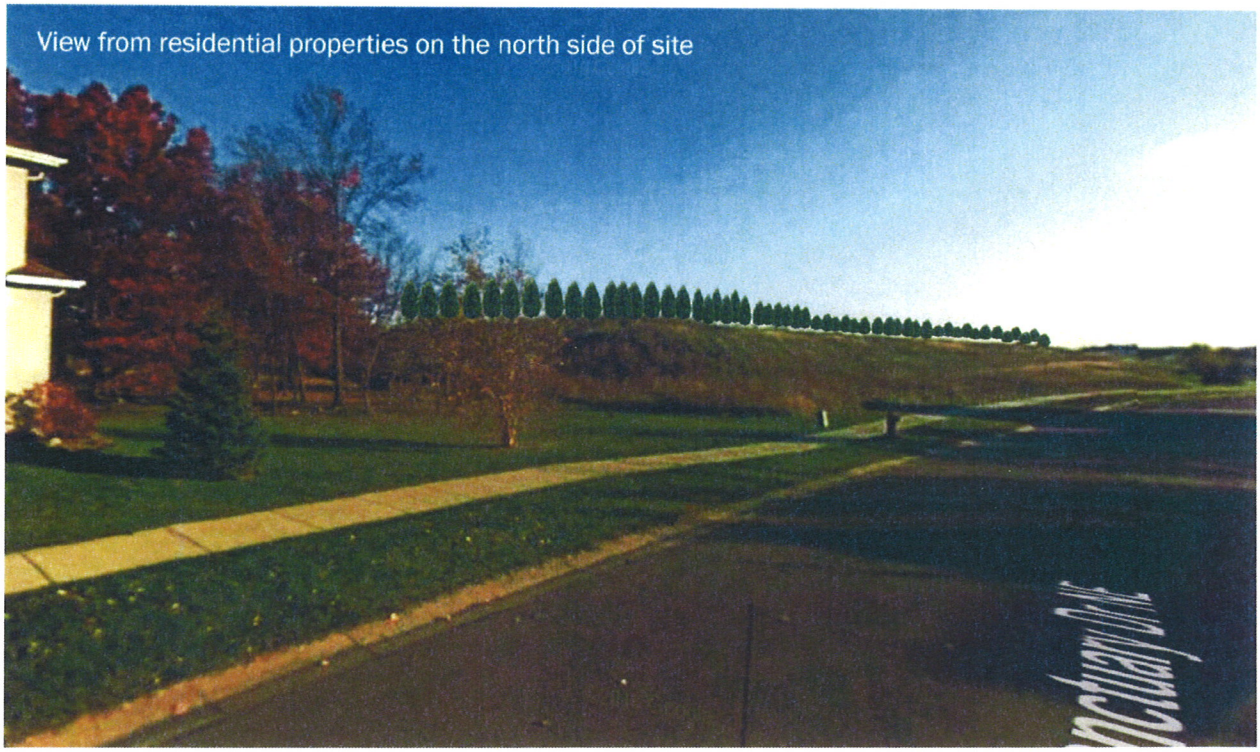
Site Photo

Photo 1-2. Fixed tilt system (facing south, taken from west) (Photo credit: SoCore Energy)

Site Photo

Photo 3-4. Array behind proposed fencing (Photo credit: SoCore Energy)


View from residential properties on bottom of hill on Sanctuary Dr
Google


View from residential properties on the north side of site

0 30 60 120

(IN FEET)

SCALE: 1" = 60'

LEGEND AND ABBREVIATIONS:

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Chicago, IL 60654
1-877-SOCORE1

REV	DATE	ISSUE FOR

PROJECT NAME
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SOLAR
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BLAINE, MN 55449
(45.162828, -93.196716)

SHEET NAME
LINE-OF-SIGHT DIAGRAM MAP

DESIGNER	JCL
DRAWN BY	JCL
CHECK	GCM
DATE	8/29/2017
SCALE	AS NOTED
SHEET SIZE	24" X 36"

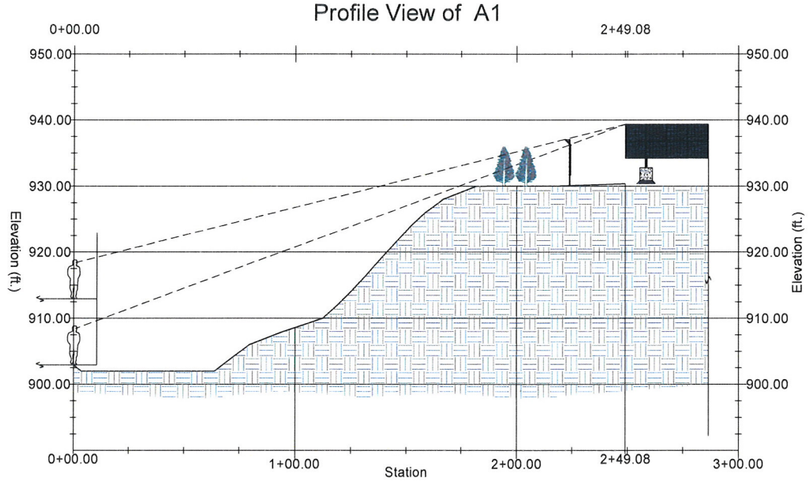
STAMP

SOR: CIVIL
GAVIN MEINSCHEIN, PE

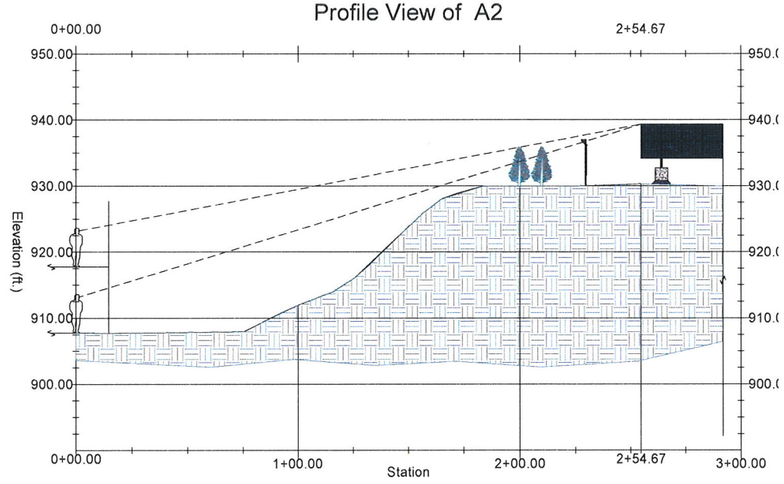
SHEET NUMBER
C6.00

FILE PATH: S:_NEW FOLDER STRUCTURE\PROJECTS\NATIONAL SPORTS CENTER_MN_CONX\ENGINEERING AND DESIGN\DRAWINGS\C2.12 - LINE OF SIGHT DIAGRAMS.DWG 9/22/2017 BY: JOE.LAUGHLIN

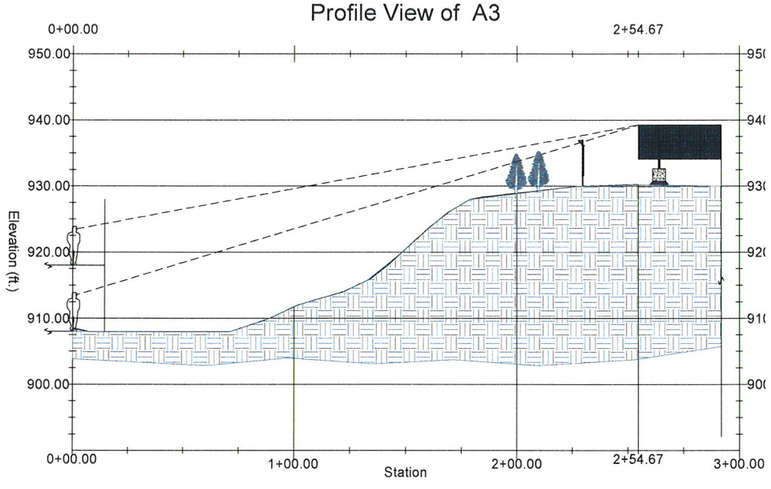
Profile View of A1



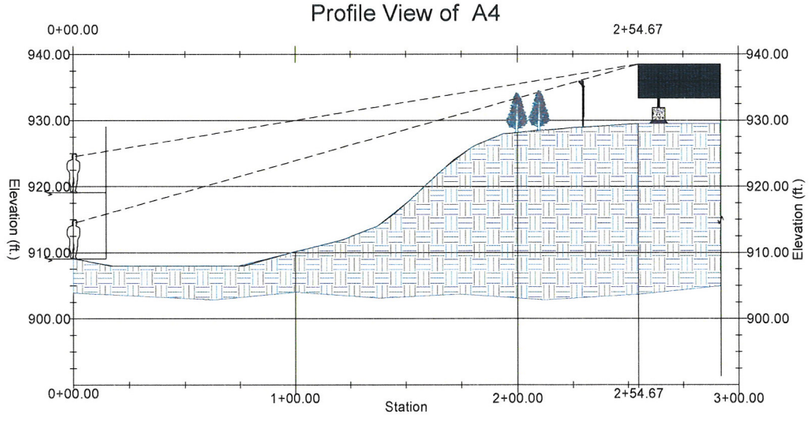
Profile View of A2



Profile View of A3



Profile View of A4



FILE PATH: S:_NEW FOLDER STRUCTURE\PROJECTS\NATIONAL SPORTS CENTER_MN_CONX\ENGINEERING AND DESIGN\DRAWINGS\C2.12 - LINE OF SIGHT DIAGRAMS.DWG 9/22/2017 BY: JOE LAUGHLIN

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SHEET NAME
LINE-OF-SIGHT DIAGRAMS

DESIGNER	JCL	DATE 8/29/2017
DRAWN BY	JCL	SCALE AS NOTED
CHK'D BY	GCM	SHEET SIZE 24" X 36"

STAMP

EOR
CIVIL
GAVIN MEINSCHEIN, PE

SHEET NUMBER
C6.01