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. TOPOGRAPHIC INFORMATION CONDUCTED BY LESLIE M. HIGGINSON SURVEYING Ltd. RECEIVED OCTOBER 25, 2017. TOPOGRAPHIC SURVEY IS UTM 18. LIDAR INFORMATION CONDUCTED BY TULLOCH ENGINEERING ON JUNE 27, 2016. LIDAR SURVEY IS UTM 18. BEDROCK SURVEY INFORMATION PROVIDED BY PCL CONSTRUCTORS LTD. RECEIVED ON OCTOBER 31, 2017.EXISTING VEGETATION INFORMATION IS APPROXIMATE, PROVIDED FROM AERIAL IMAGERY, CONTRACTOR TO CONFIRM ALL TREE & SHRUB LOCATIONS ON SITE.
THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED

THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS

IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON THE PRIVATE PROPERTY TO PERFORM ANY WORKS. COPIES OF THESE LETTERS OF CONSENT MUST BE SUBMITTED TO THE OWNER AND CONTRACTOR AND A COPY IS TO BE KEPT ON FILE ON SITE PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT THE PROPERTY OWNERS OWN

PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY.
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THE SITE IS TO BE FINE GRADED/LEVELED LEAVING THE SITE IN A NEAT APPEARANCE SUCH THAT

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CONSTRUCTION TURNING RADIUS LIMITS IDENTIFY AREAS WHERE ADDITIONAL ROAD WIDTH IS

REQUIRED TO ALLOW FOR ADEQUATE CLEARANCE FOR CONSTRUCTION VEHICLES.

CULVERTS ARE TO BE INSTALLED AS PER OPSD 802.010. SOIL TYPE TO BE CONFIRMED ON SITE

FOR DETERMINATION OF TRENCH WIDTH.

SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
CLEARING AND GRUBBING AND REMOVALS TO BE COMPLETED IN ACCORDANCE WITH OPSS 201.

TEMPORARY EROSION CONTROL TO BE COMPLETED IN ACCORDANCE WITH OPSS 577.

2. GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS 206. GRANULAR MATERIAL TO BE USED IN ACCORDANCE WITH OPSS 1010.

3. CULVERT TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 421. HEIGHT OF FILL TABLE FOR CSP CULVERTS TO COMPLY WITH OPSD 805.010.

4. RIPRAP AT CULVERT OUTLETS SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B-B.

5. ALL SEEDING TO BE COMPLETE IN ACCORDANCE WITH OPSS 804.

EXISTING TOPOGRAPHIC SURVEY CONTOUR -184.5-LIDAR CONTOUR FENCE CULVERT SOLAR ARRAY BLOCK DELINEATOR INVERTER STATION SOLAR PANEL TABLE HARDENED SURFACE REFER TO C-500 FOR DETAILS AC CABLE TRENCH DC CABLE TRENCH SWALE POTENTIAL EXPOSED TEMPORARY LAYDOWN AREA (MATERIAL STRUCTURE TO BE DETERMINED ON SITE) TREE/VEGETATION LINE FILL AREA

> ROCK CHECK SPREADER CUT AREA

10m SETBACK LIMIT NO TOUCH ZONE

AREA TO BE CLEARED OF TREES, GRADED AND AREA TO BE CLEARED OF TIMES, COMMESSIONS SURVEYED TO CONFIRM PROPOSED PILE ELEVATIONS

В	ISSUED FOR TENDER	DRR	DS	18.01.16
Α	ISSUED FOR CLIENT REVIEW	DRR	DS	17.12.21
Revision		Ву	Appd.	YY.MM.DD
File 1	Name: 133560220_C-SP-BLOCK_D.dwg	DS DS	DRR	17.11.07

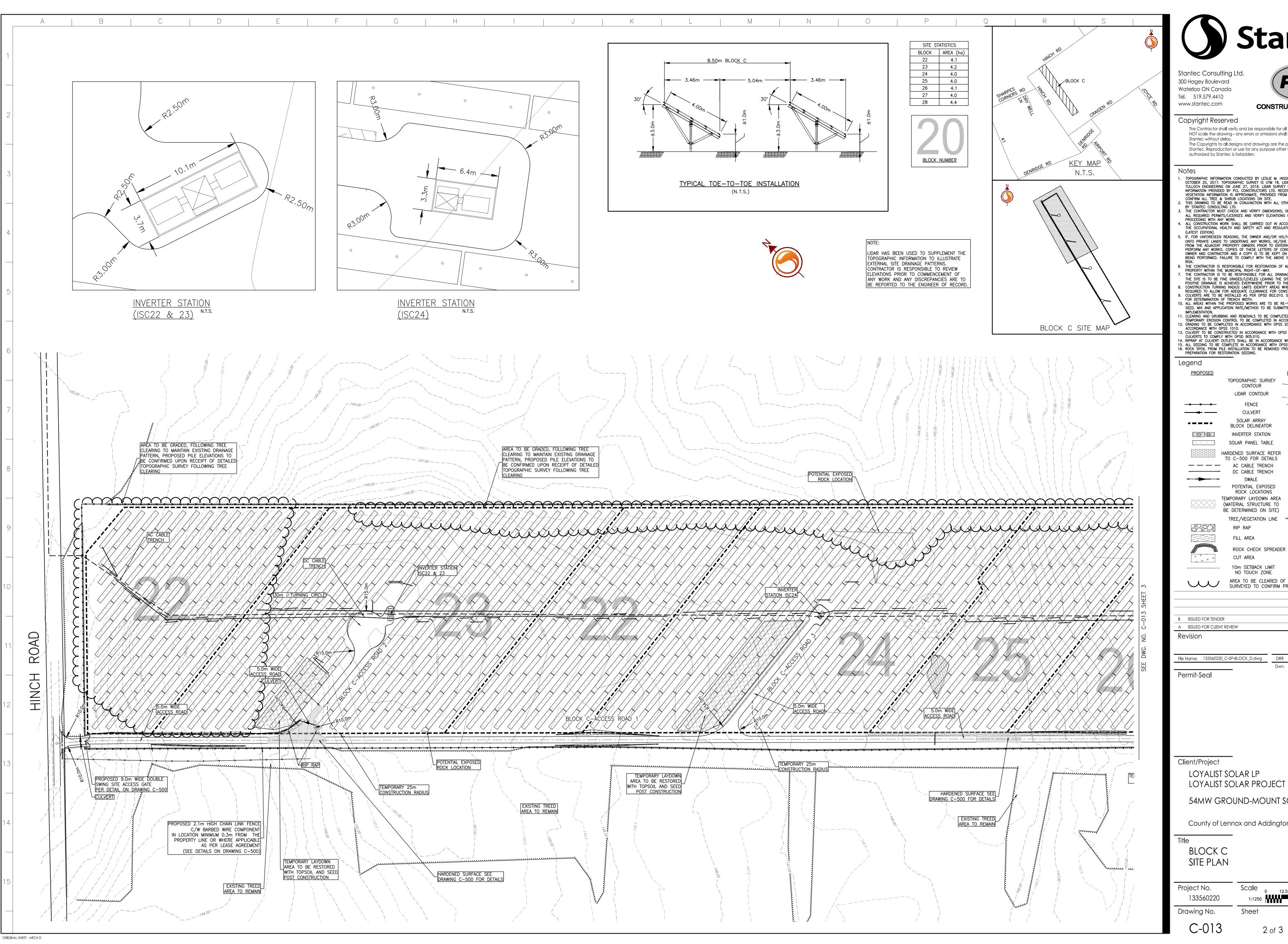
Dwn. Chkd. Dsgn. YY.MM.DD

LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Revision







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HARDENED SURFACE REFER TO C-500 FOR DETAILS AC CABLE TRENCH

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FILL AREA

ROCK CHECK SPREADER

CUT AREA 10m SETBACK LIMIT NO TOUCH ZONE

AREA TO BE CLEARED OF TREES, GRADED AND SURVEYED TO CONFIRM PROPOSED PILE ELEVATIONS

DRR DS 18.01.16 Appd. YY.MM.DD

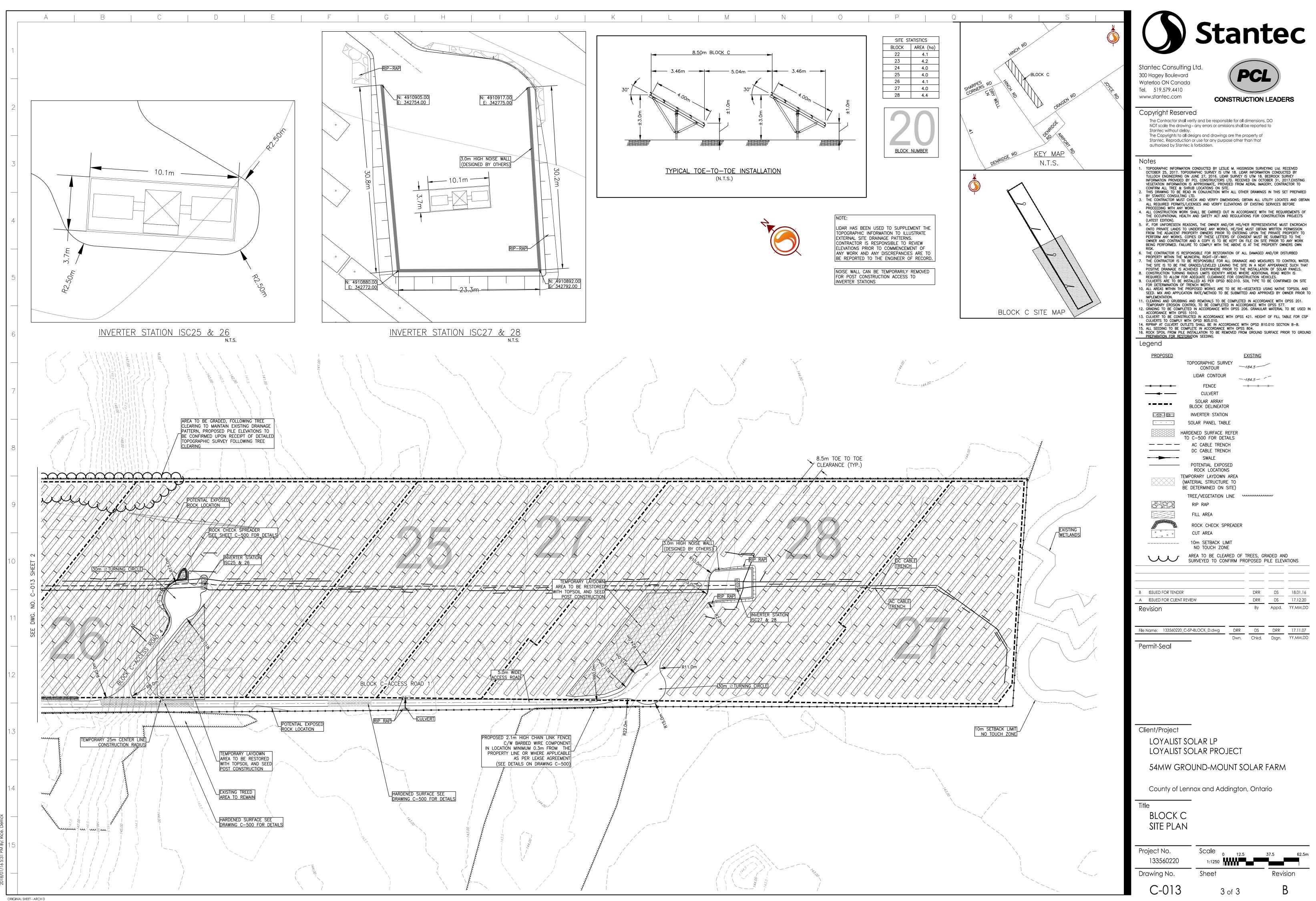
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LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Sheet





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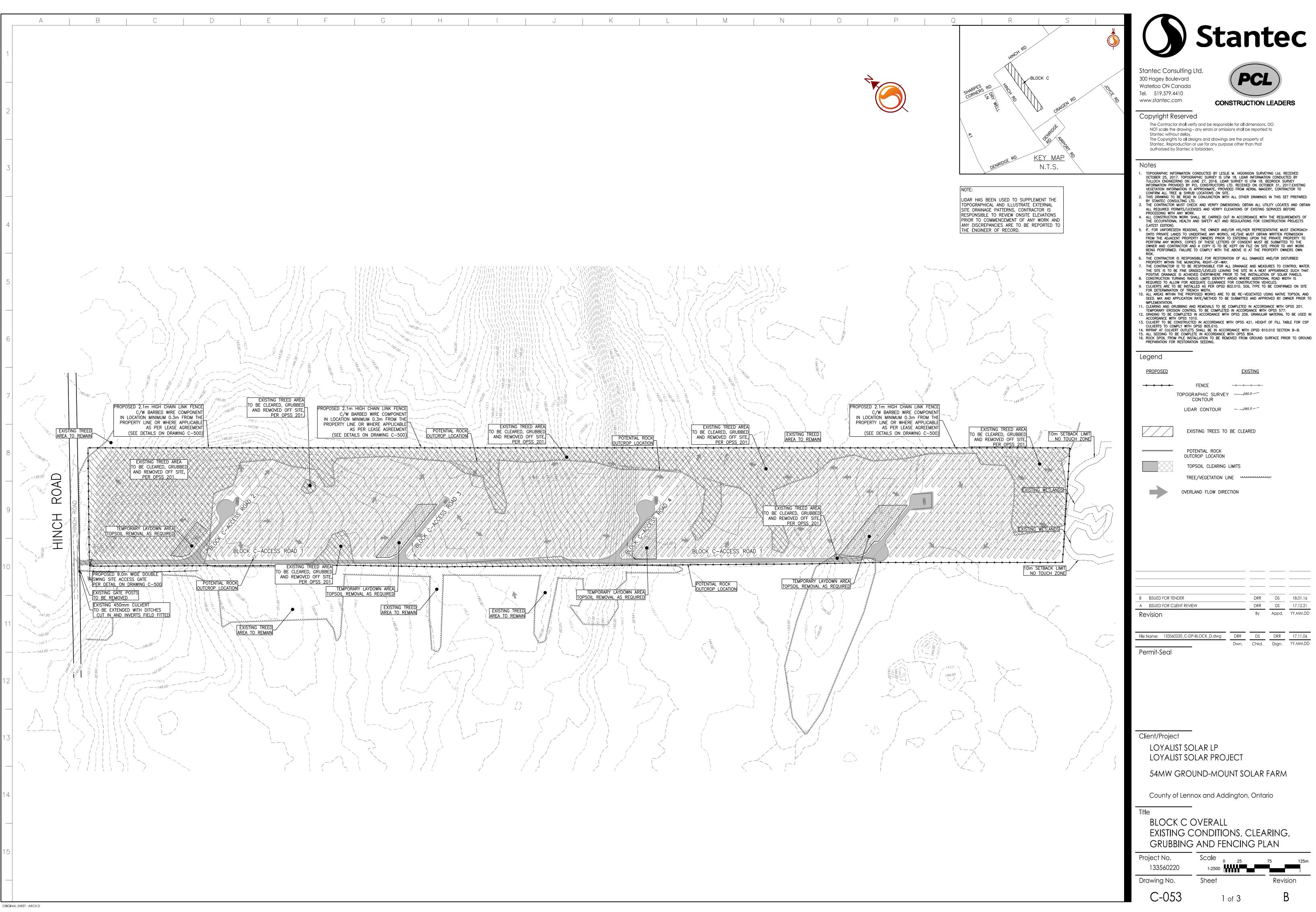
15. ALL SEEDING TO BE COMPLETE IN ACCORDANCE WITH OPSS 804.

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--184.5--x x x

DRR DS 18.01.16 Appd. YY.MM.DD

County of Lennox and Addington, Ontario





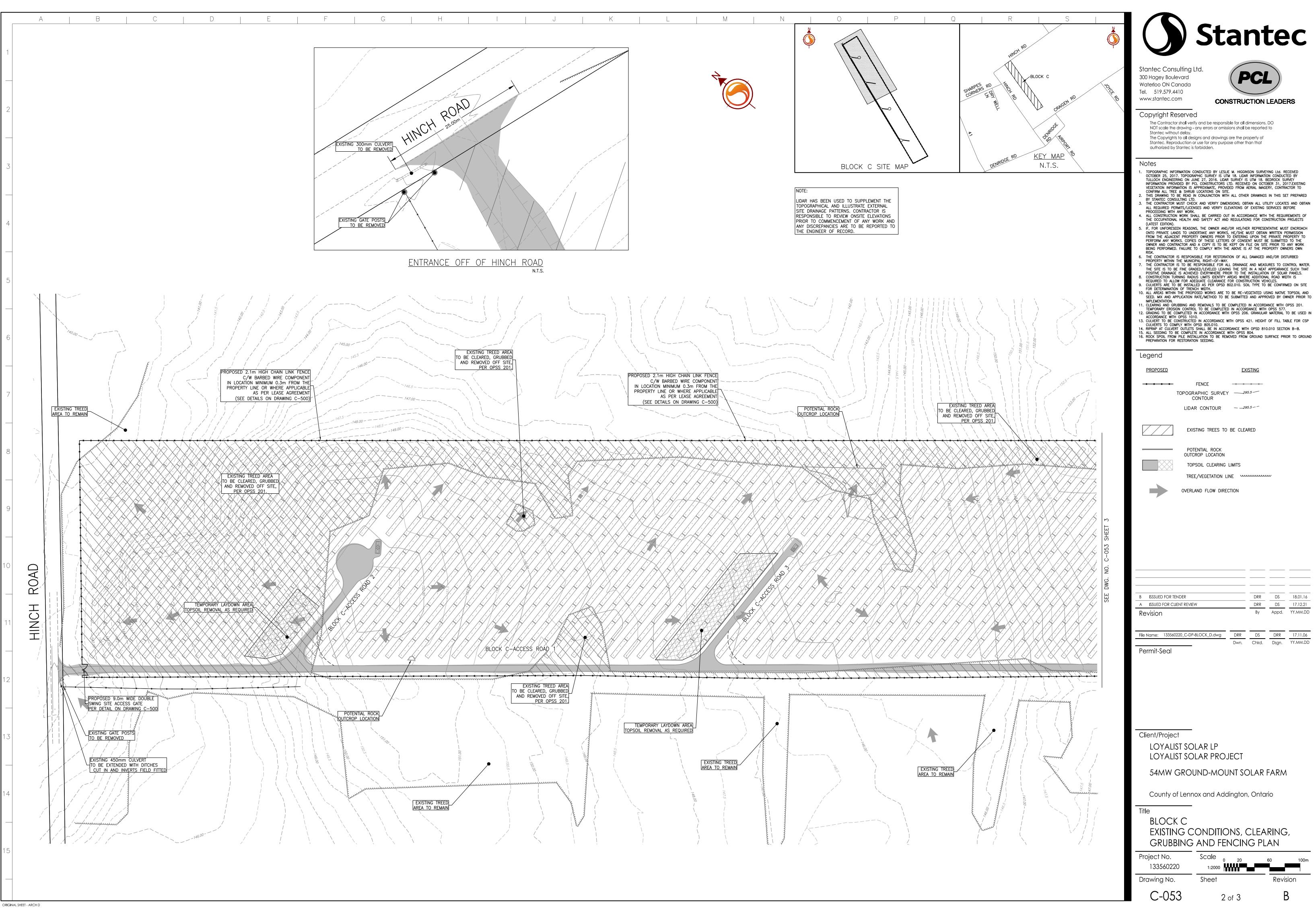
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DRR DS 18.01.16 D\$ 17.12.21 Appd. YY.MM.DD

EXISTING CONDITIONS, CLEARING, GRUBBING AND FENCING PLAN





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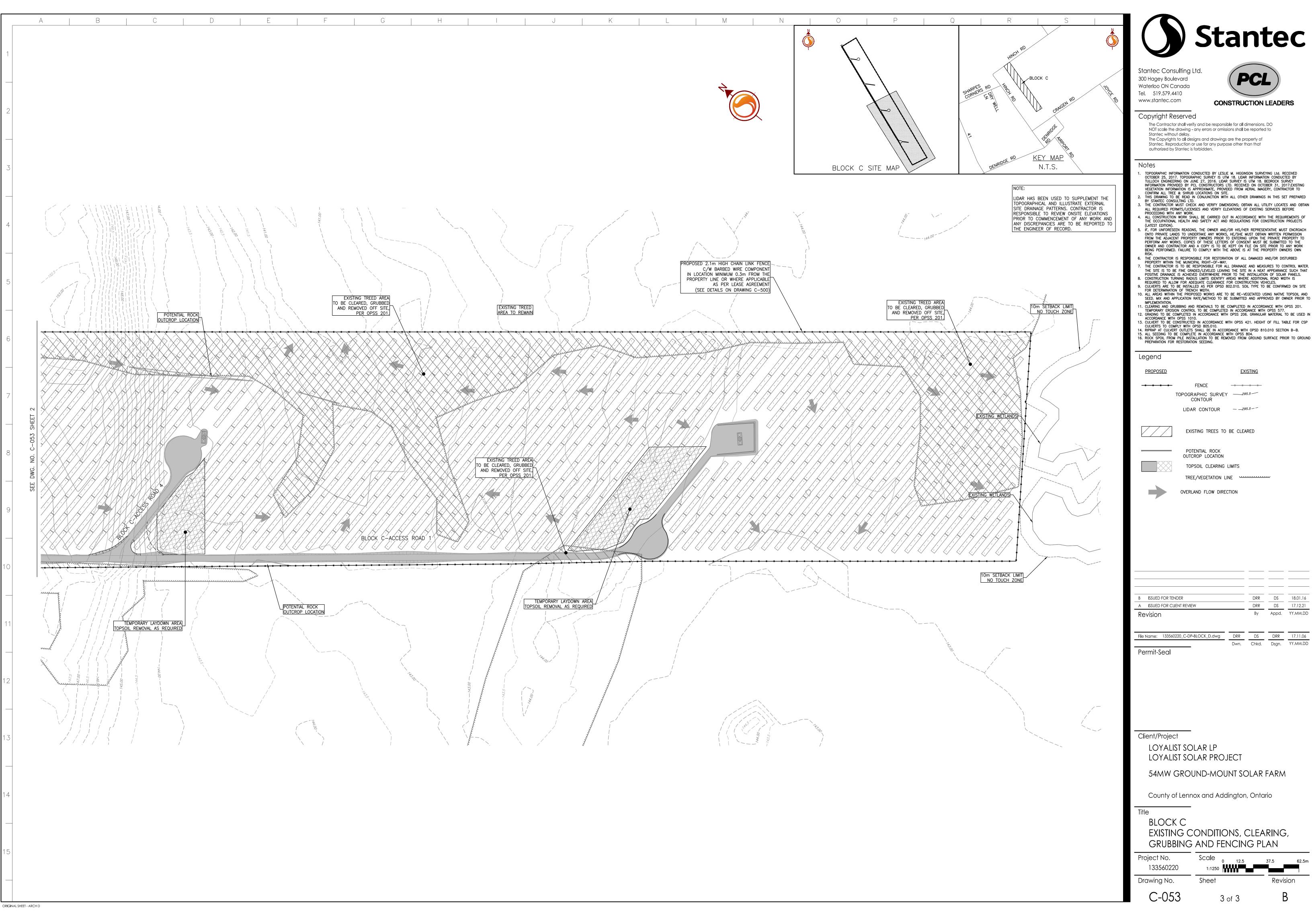
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Appd. YY.MM.DD

DS DRR 17.11.06 Dwn. Chkd. Dsgn. YY.MM.DD

County of Lennox and Addington, Ontario

EXISTING CONDITIONS, CLEARING,

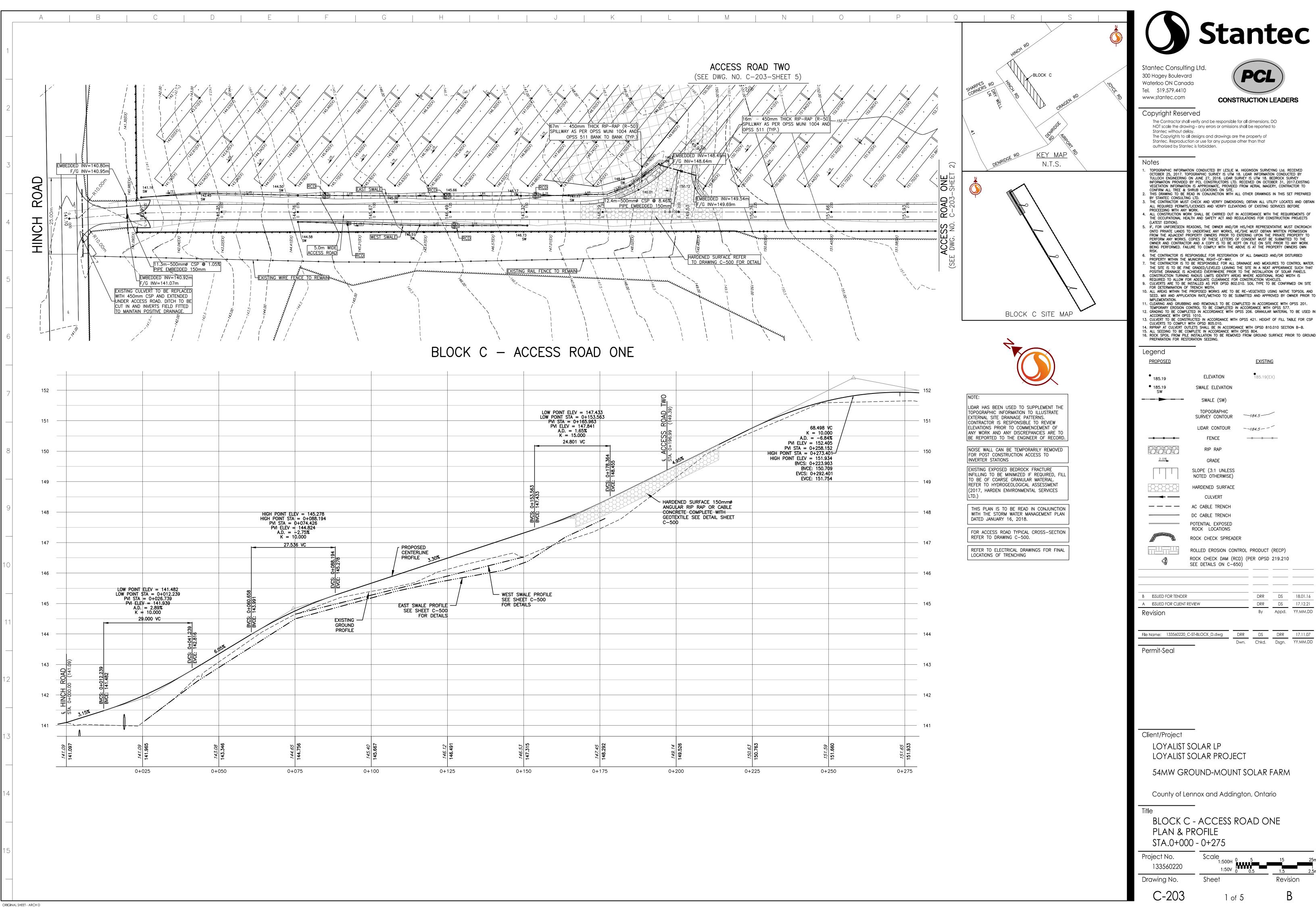




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EXISTING ELEVATION SWALE ELEVATION SWALE (SW) TOPOGRAPHIC SURVEY CONTOUR --184.5--LIDAR CONTOUR FENCE GRADE SLOPE (3:1 UNLESS HARDENED SURFACE CULVERT AC CABLE TRENCH DC CABLE TRENCH POTENTIAL EXPOSED ROCK LOCATIONS ROCK CHECK SPREADER ROLLED EROSION CONTROL PRODUCT (RECP)

ROCK CHECK DAM (RCD) (PER OPSD 219.210 SEE DETAILS ON C-650)

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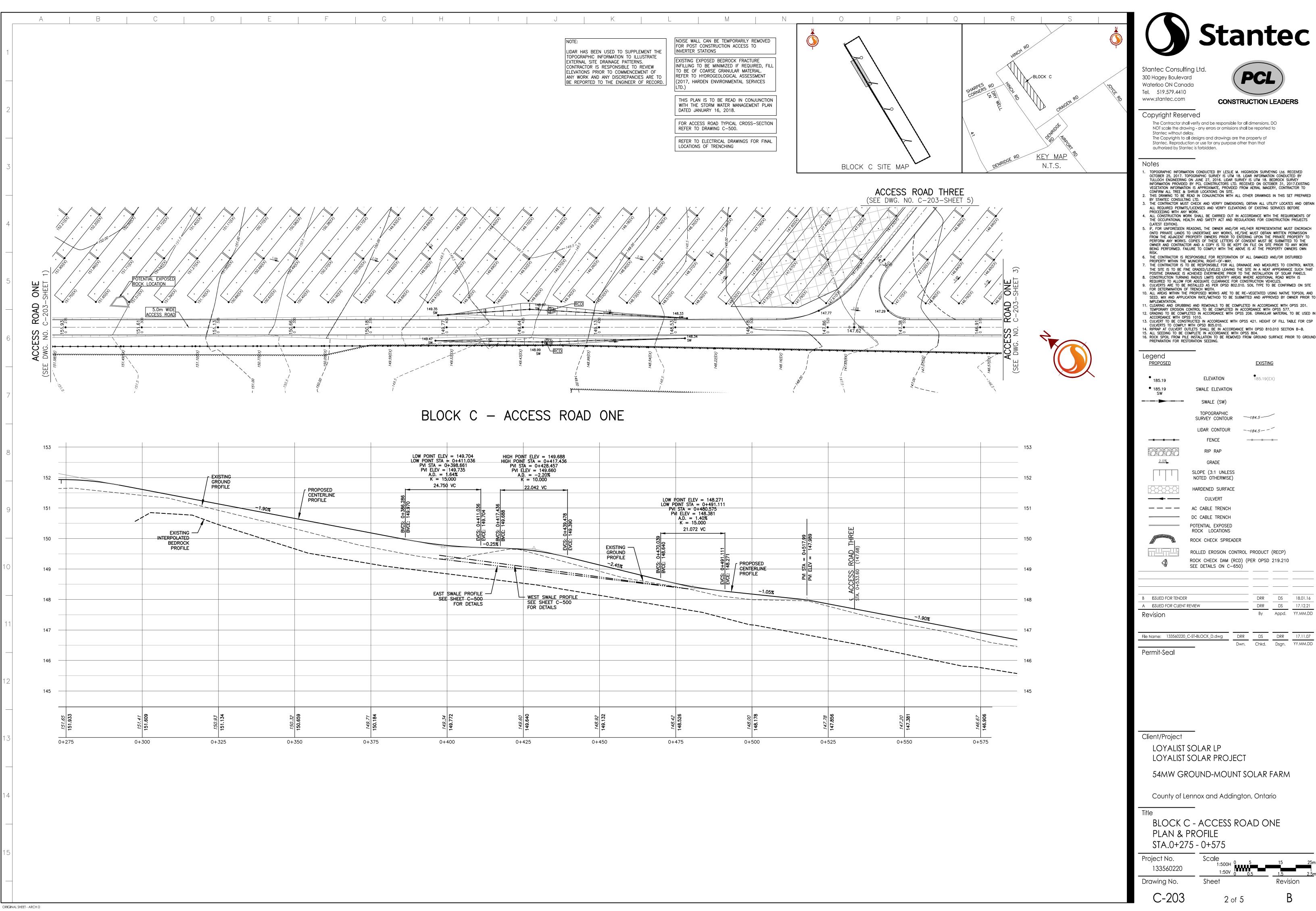
LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

BLOCK C - ACCESS ROAD ONE PLAN & PROFILE STA.0+000 - 0+275

1:50 Sheet Revision





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DRR DS 18.01.16
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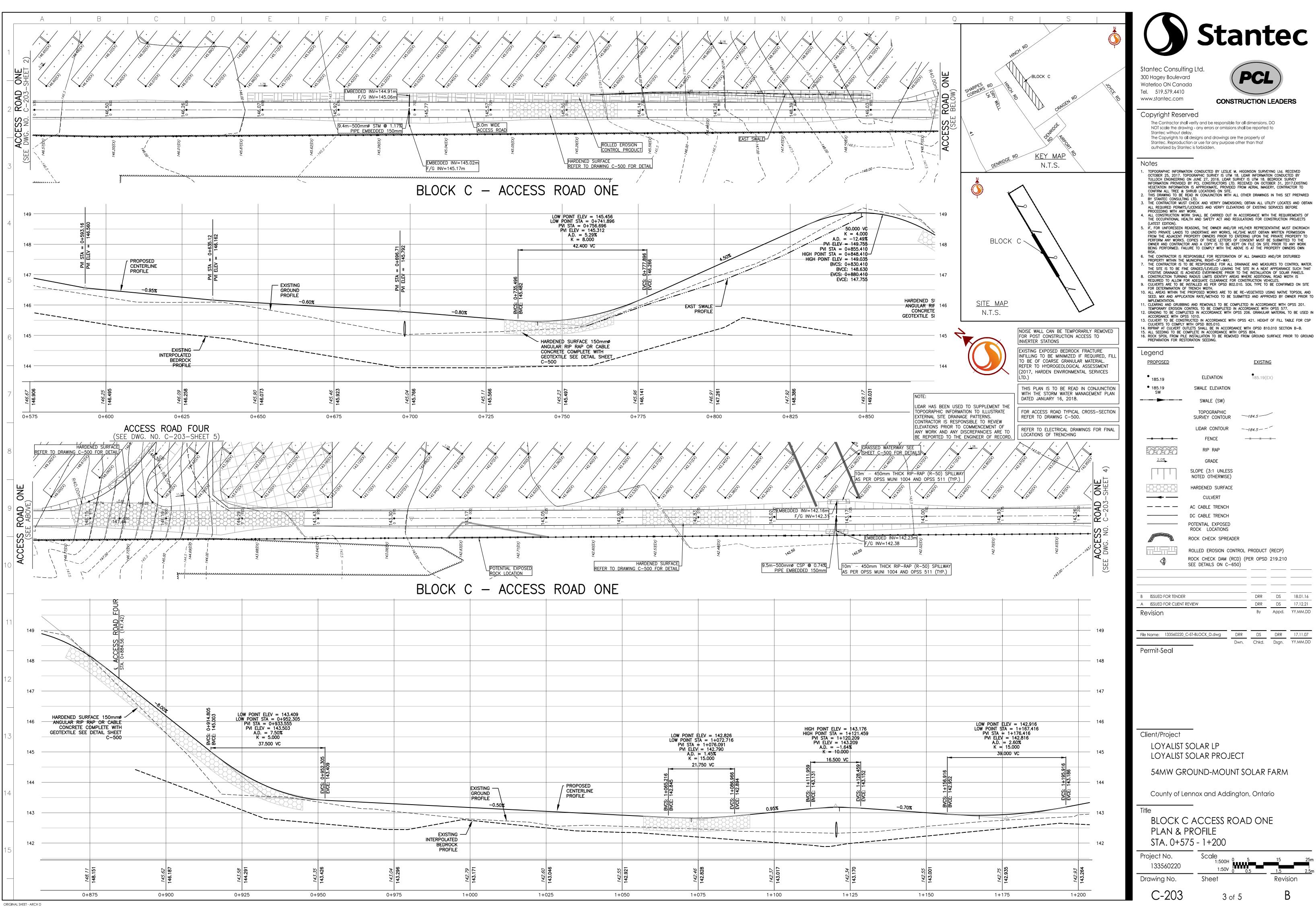
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LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

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BLOCK C - ACCESS ROAD ONE PLAN & PROFILE STA.0+275 - 0+575





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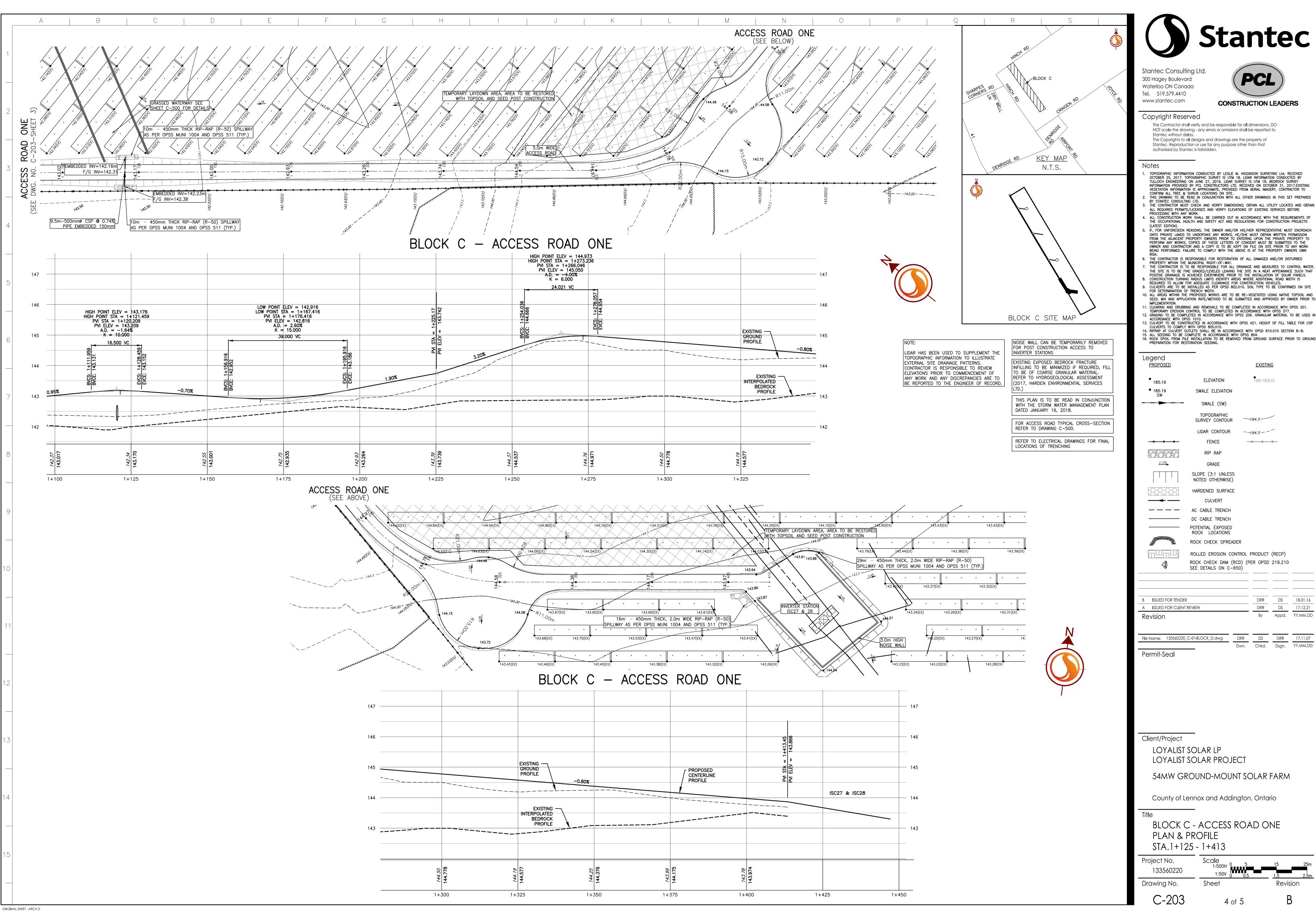
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DRR DS 18.01.16 RR DS 17.12.21

By Appd. YY.MM.DD DS DRR 17.11.07





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- RISK.

 THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT—OF—WAY.

 THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER. THE SITE IS TO BE FINE GRADED/LEVELED LEAVING THE SITE IN A NEAT APPEARANCE SUCH THAT POSITIVE DRAINAGE IS ACHIEVED EVERYWHERE PRIOR TO THE INSTALLATION OF SOLAR PANELS.

 CONSTRUCTION TURNING RADIUS LIMITS IDENTIFY AREAS WHERE ADDITIONAL ROAD WIDTH IS REQUIRED TO ALLOW FOR ADEQUATE CLEARANCE FOR CONSTRUCTION VEHICLES.

 CULVERTS ARE TO BE INSTALLED AS PER OPSD 802.010. SOIL TYPE TO BE CONFIRMED ON SITE FOR DETERMINATION OF TRENCH WIDTH.
- FOR DETERMINATION OF TRENCH WIDTH.

 O. ALL AREAS WITHIN THE PROPOSED WORKS ARE TO BE RE-VEGETATED USING NATIVE TOPSOIL AND
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 13. CULVERT TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 421. HEIGHT OF FILL TABLE FOR CSP CULVERTS TO COMPLY WITH OPSD 805.010.

 14. RIPRAP AT CULVERT OUTLETS SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B—B.

 15. ALL SEEDING TO BE COMPLETE IN ACCORDANCE WITH OPSS 804.

 16. ROCK SPOIL FROM PILE INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND REPORTATION.

EXISTING ELEVATION SWALE ELEVATION SWALE (SW) TOPOGRAPHIC SURVEY CONTOUR LIDAR CONTOUR --184.5--FENCE GRADE SLOPE (3:1 UNLESS HARDENED SURFACE AC CABLE TRENCH POTENTIAL EXPOSED ROCK LOCATIONS ROCK CHECK SPREADER

ROLLED EROSION CONTROL PRODUCT (RECP) ROCK CHECK DAM (RCD) (PER OPSD 219.210 SEE DETAILS ON C-650)

DRR DS 18.01.16

DRR DS DRR 17.11.07
Dwn. Chkd. Dsgn. YY.MM.DD File Name: 133560220_C-ST-BLOCK_D.dwg DRR

Client/Project

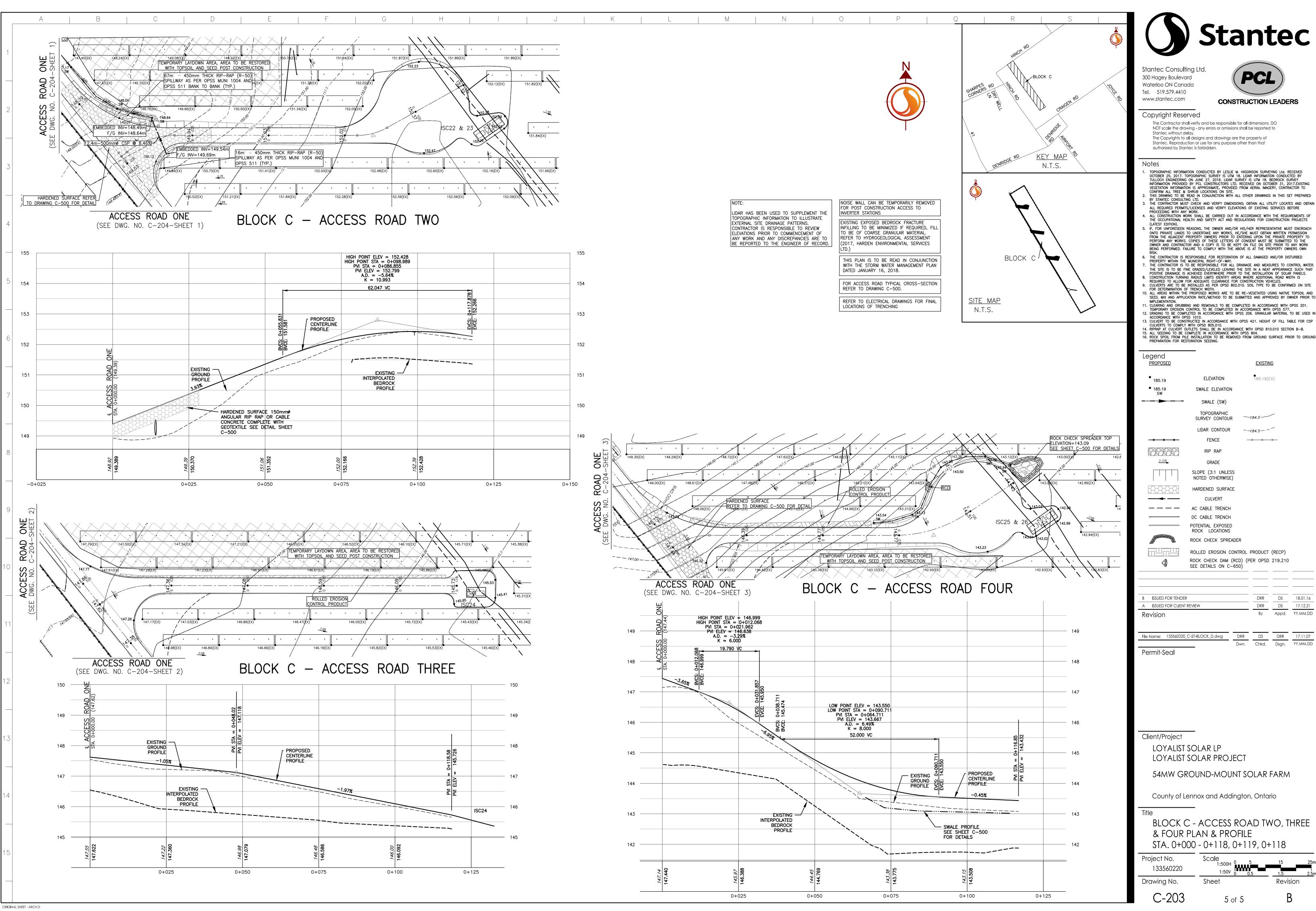
LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

BLOCK C - ACCESS ROAD ONE PLAN & PROFILE STA.1+125 - 1+413

133560220





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AC CABLE TRENCH

POTENTIAL EXPOSED ROCK LOCATIONS ROCK CHECK SPREADER

ROLLED EROSION CONTROL PRODUCT (RECP) ROCK CHECK DAM (RCD) (PER OPSD 219.210 SEE DETAILS ON C-650)

A ISSUED FOR CLIENT REVIEW Appd. YY.MM.DD

File Name: 133560220_C-ST-BLOCK_D.dwg Dwn. Chkd. Dsgn. YY.MM.DD

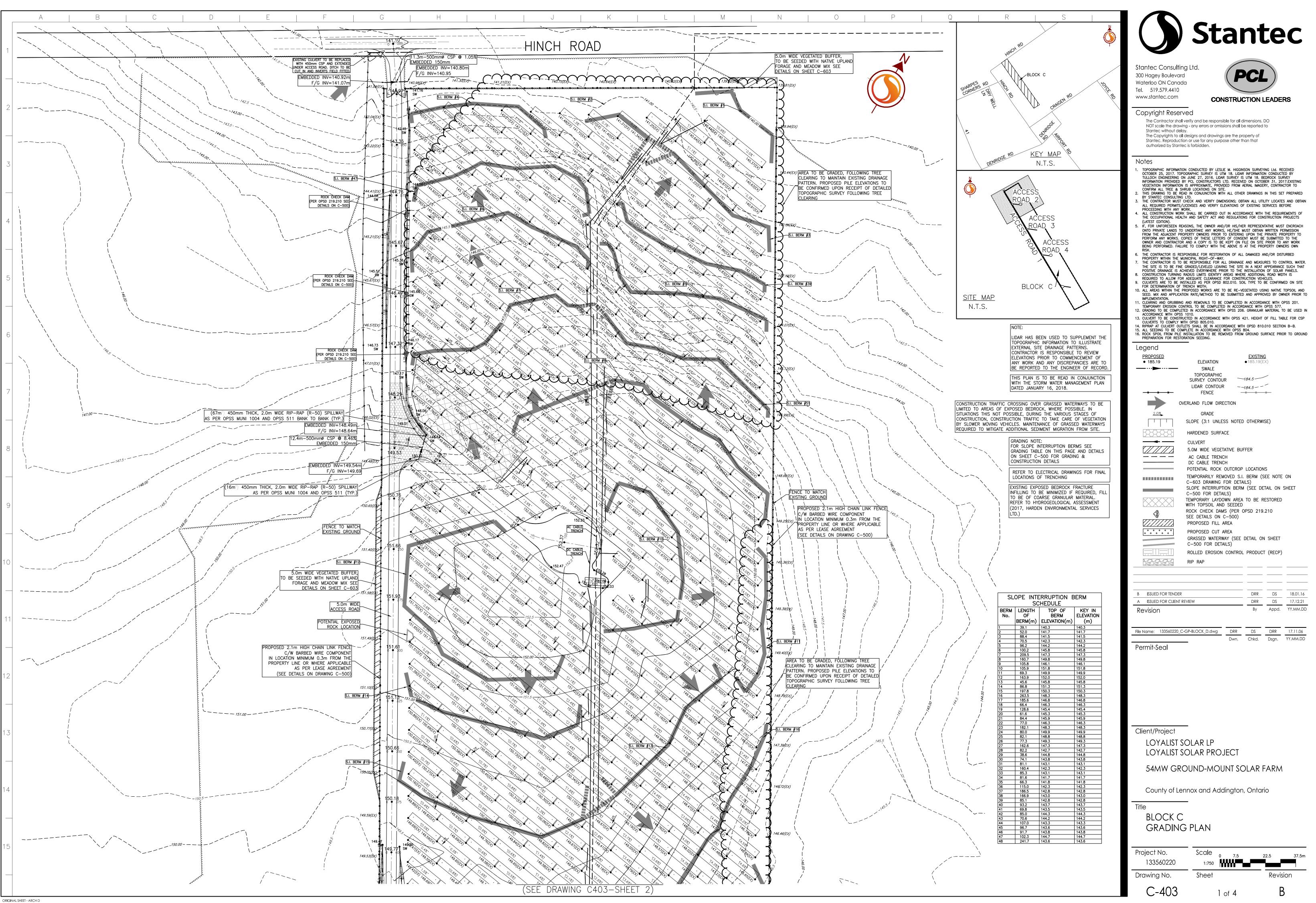
LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

BLOCK C - ACCESS ROAD TWO, THREE & FOUR PLAN & PROFILE

STA. 0+000 - 0+118, 0+119, 0+118 133560220







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184.5 --184.5--

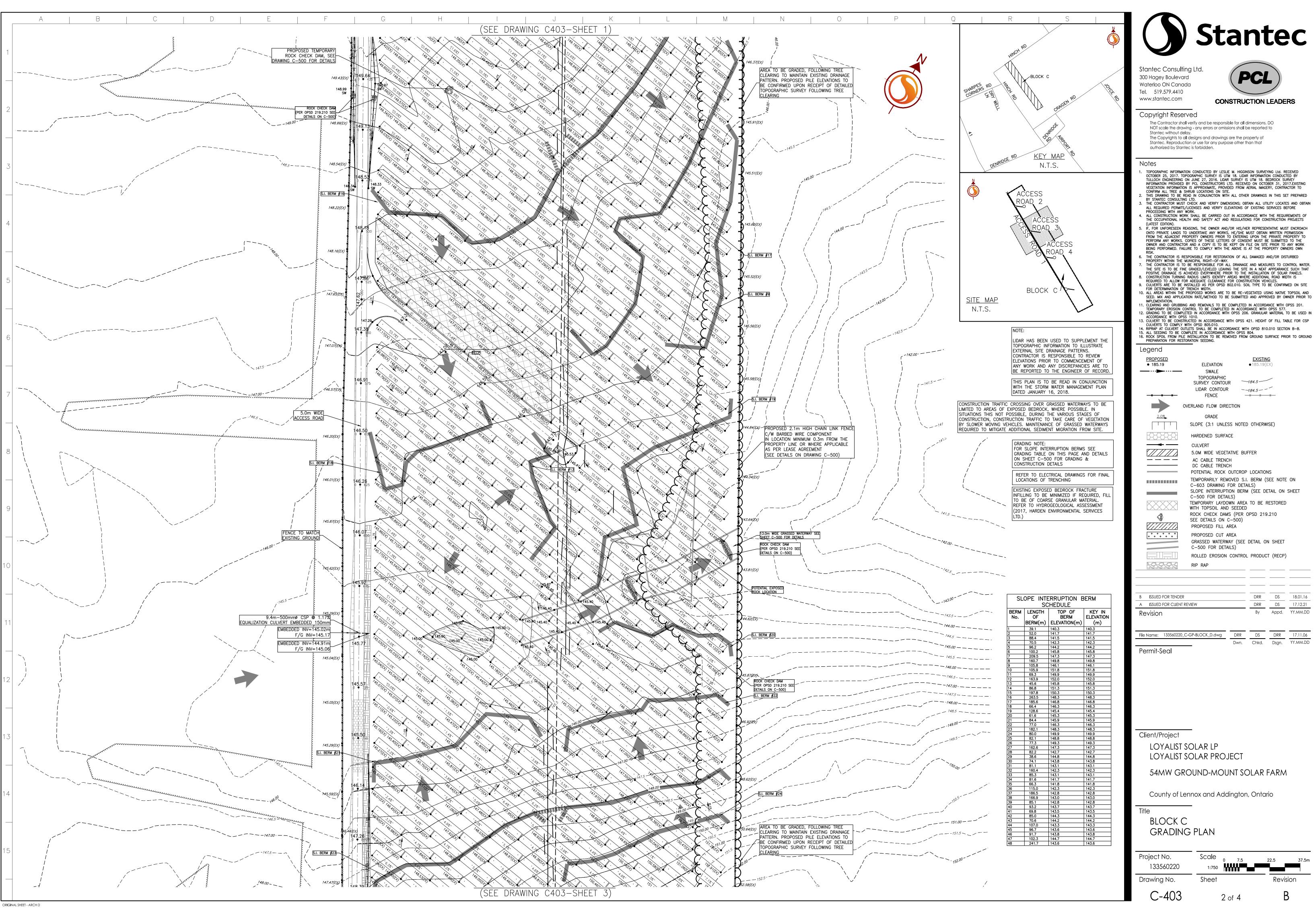
TEMPORARILY REMOVED S.I. BERM (SEE NOTE ON SLOPE INTERRUPTION BERM (SEE DETAIL ON SHEET TEMPORARY LAYDOWN AREA TO BE RESTORED

GRASSED WATERWAY (SEE DETAIL ON SHEET

ROLLED EROSION CONTROL PRODUCT (RECP)

DRR DS 18.01.16 DRR DS 17.12.21 By Appd. YY.MM.DD

Dwn. Chkd. Dsgn. YY.MM.DD





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--184.5--

POTENTIAL ROCK OUTCROP LOCATIONS

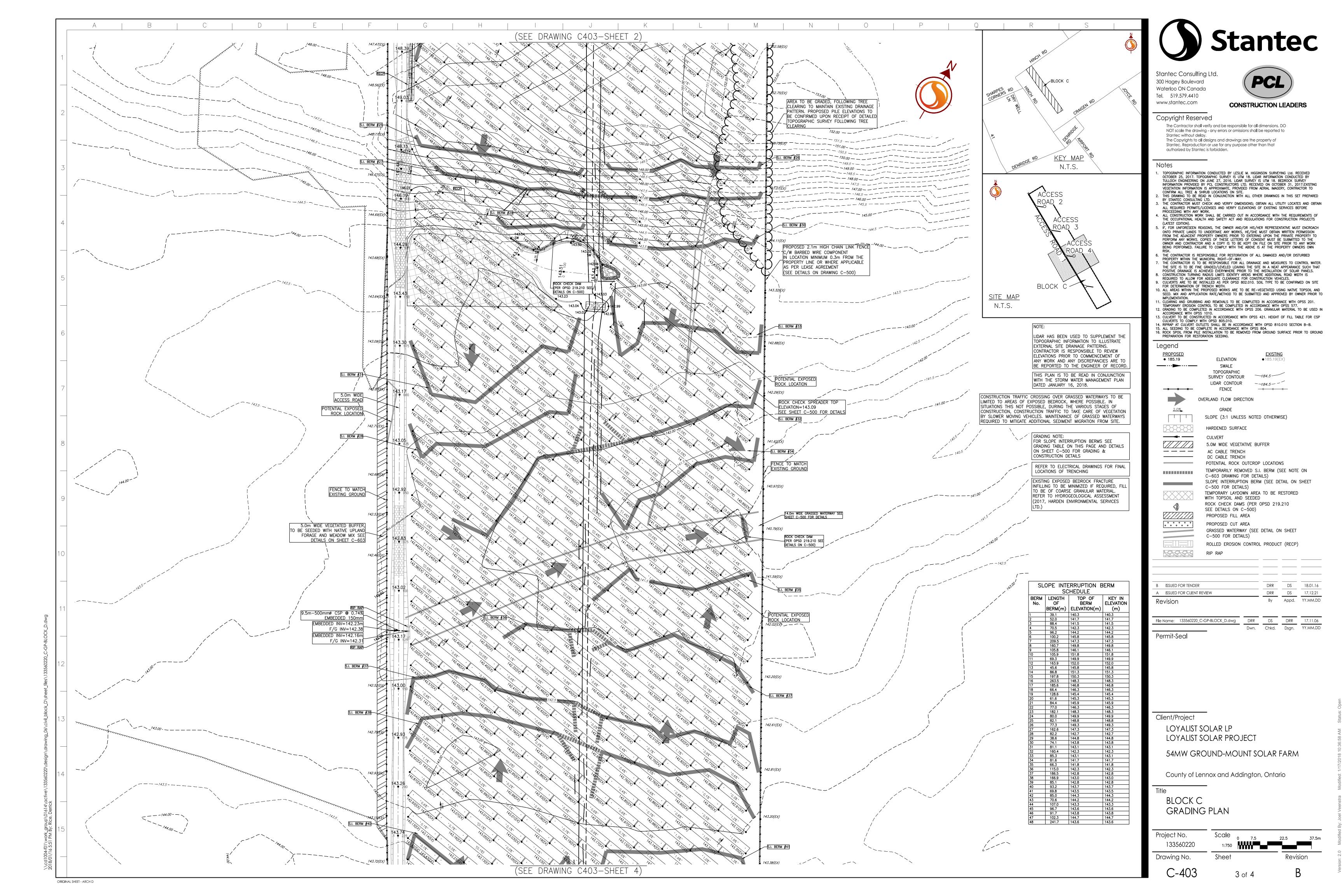
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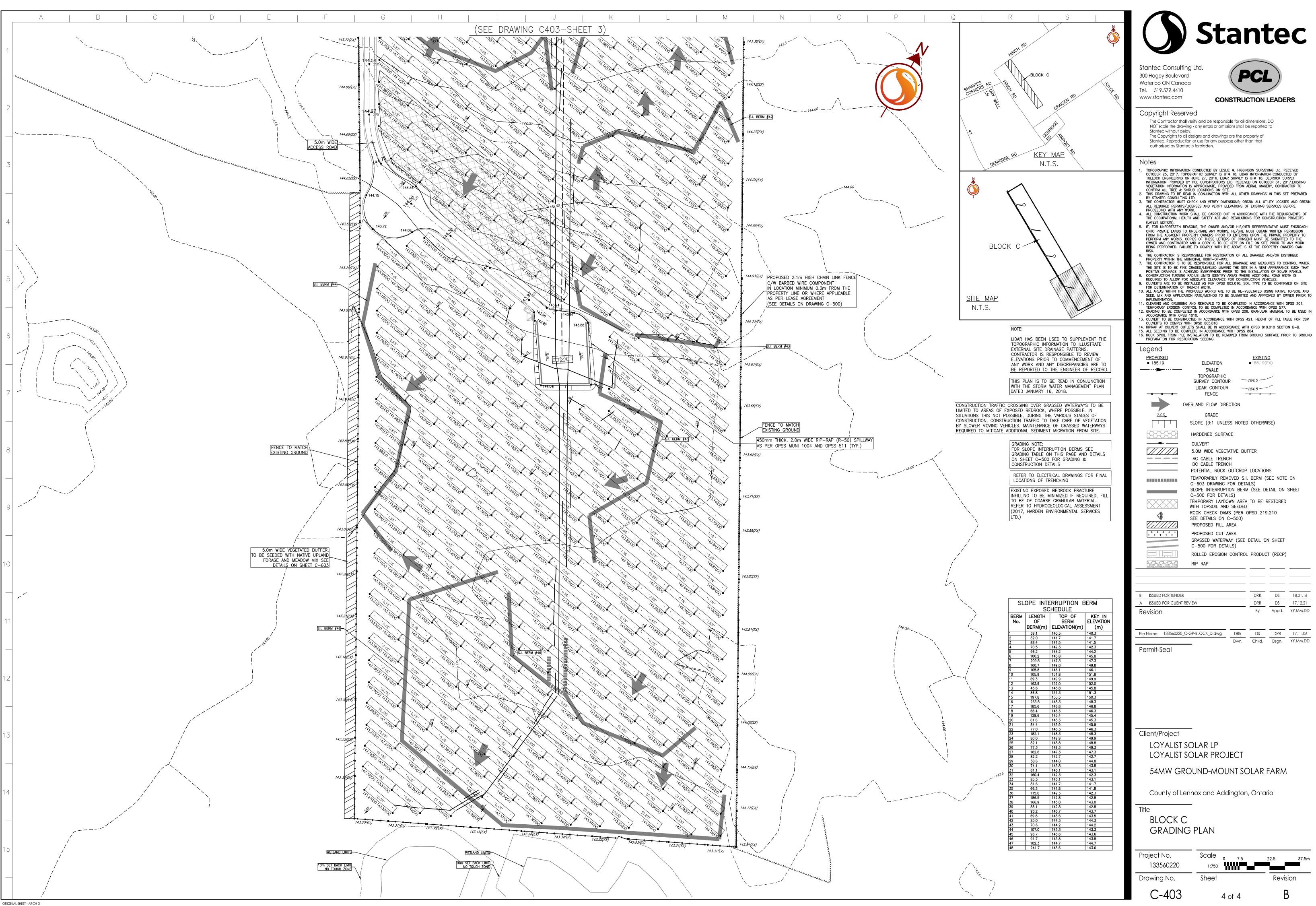
ROCK CHECK DAMS (PER OPSD 219.210

GRASSED WATERWAY (SEE DETAIL ON SHEET

DRR DS 18.01.16 Appd. YY.MM.DD

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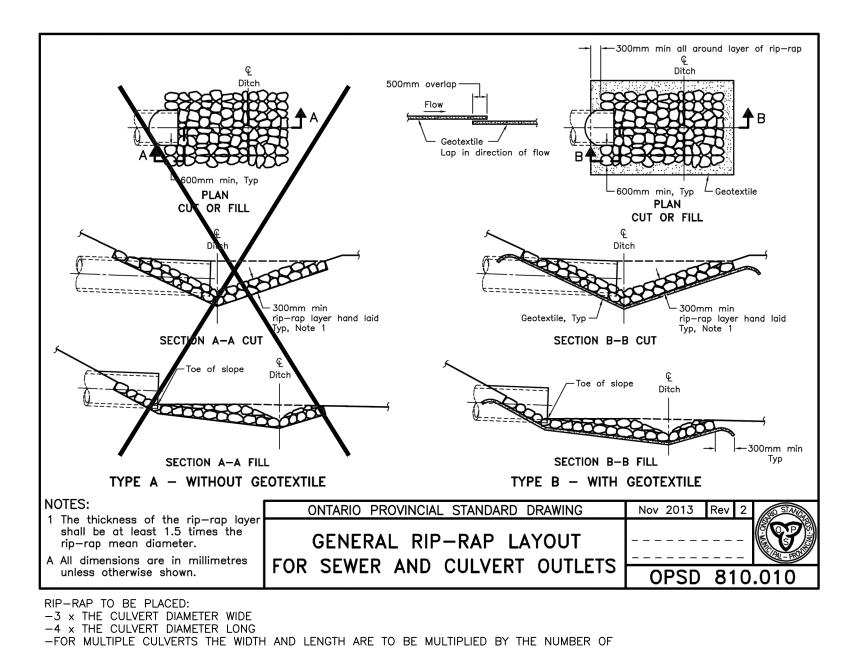


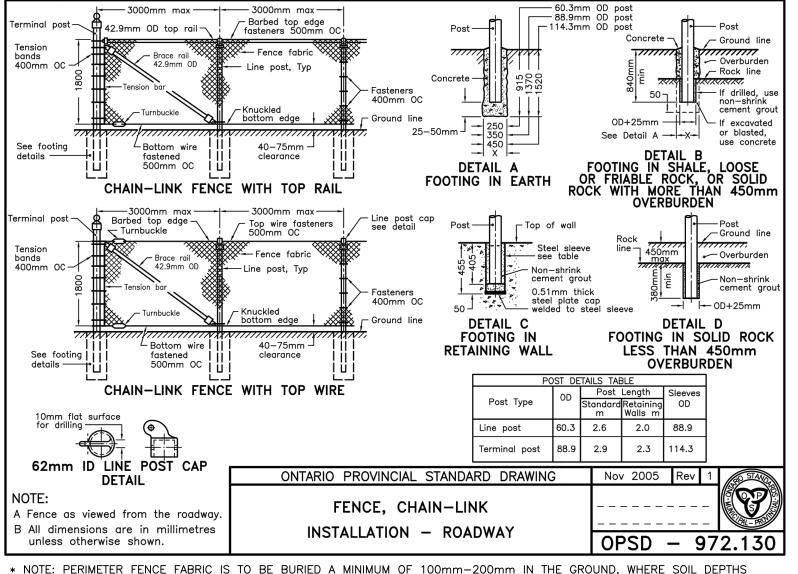
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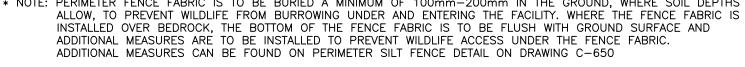
SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO

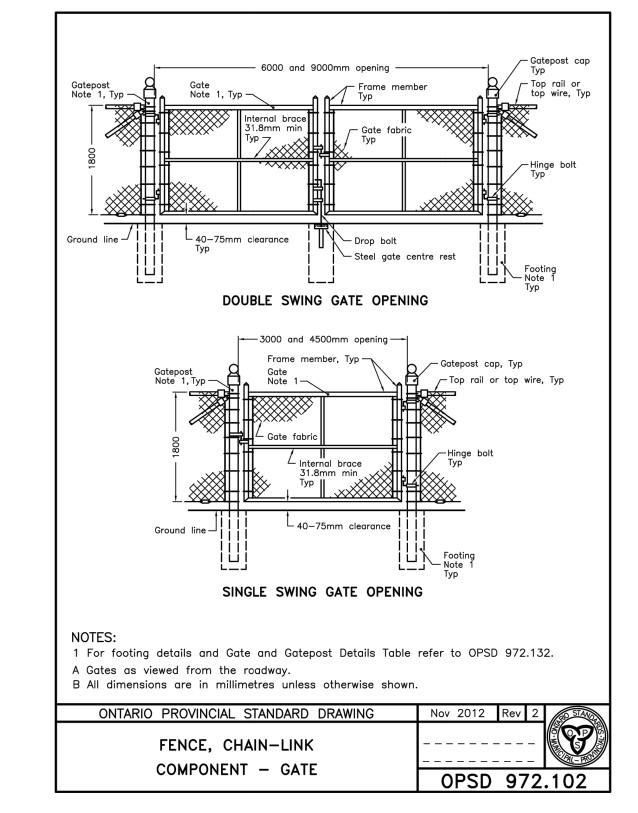
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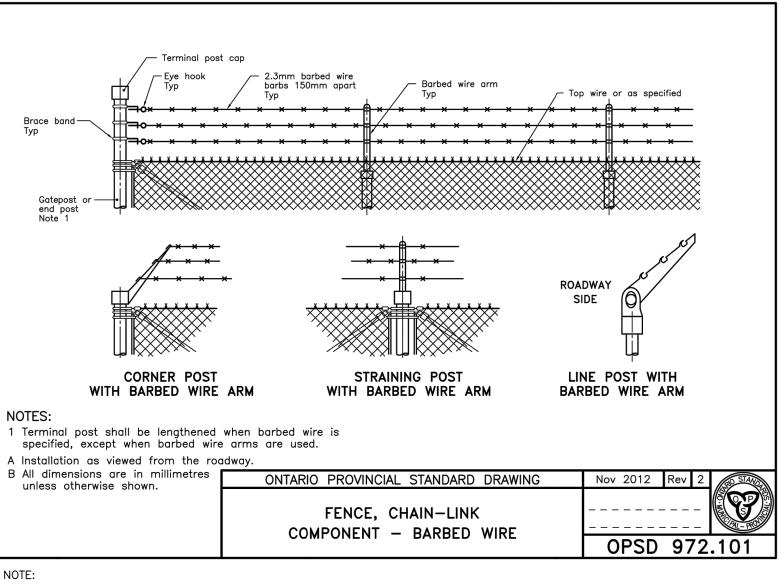
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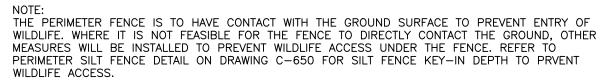




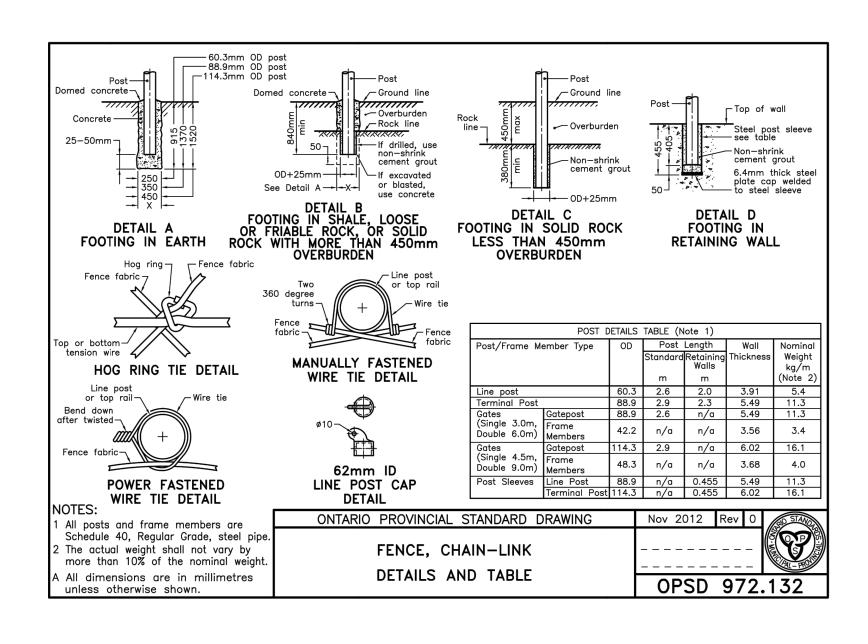


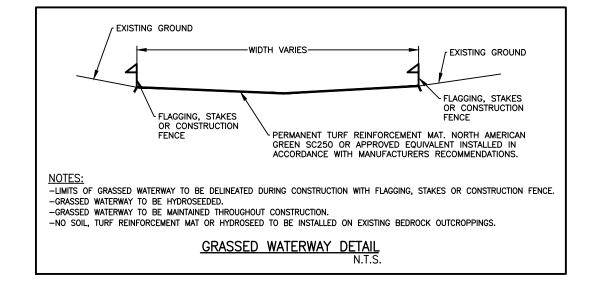






CULVERTS. FOR THE WIDTH 0.5m BETWEEN CULVERTS IS TO BE ADDED







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- PRFPARATION FOR RESTORATION SEEDING.

MALM DS 18.01.16 G. REVISED NOTES AND DETAILS DRR DS 17.12.21 REVISED NOTES AND DETAILS REVISED NOTES AND DETAILS MALM DS 17.12.15 17.11.30 DRR DS D. REVISED NOTES AND DETAILS KDB DS 17.11.23 REVISED NOTES AND DETAILS DRR DS 17.11.23 B. ISSUED FOR TENDER A. ISSUED FOR CLIENT REVIEW By Appd. YY.MM.DD Revision DRR DS DRR 17.10.18 File Name: 133560220_C-DT.dwg Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

Client/Project

LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

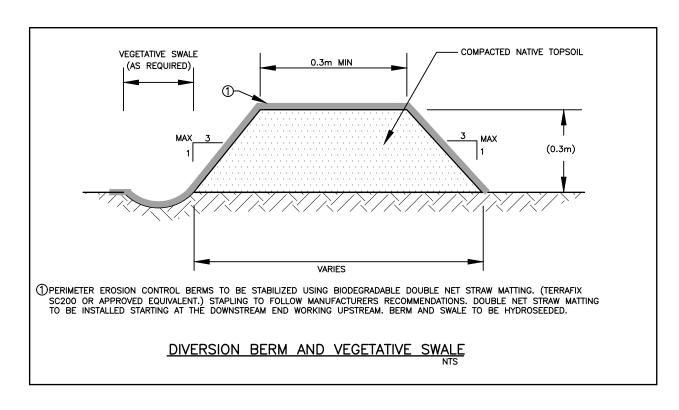
County of Lennox and Addington, Ontario

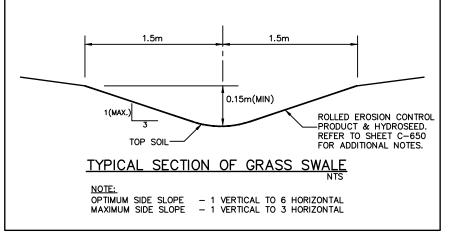
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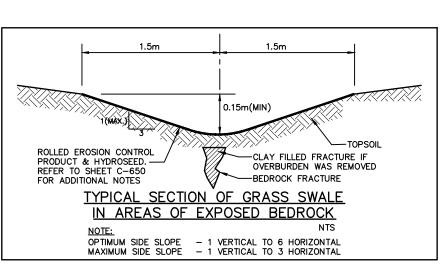
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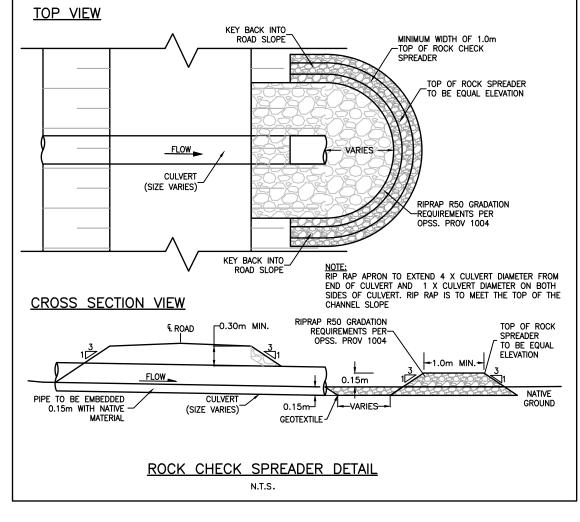
1 of 2

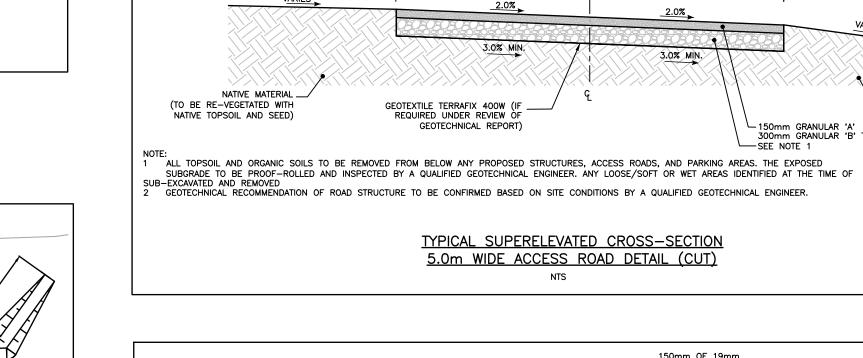
ORIGINAL SHEET - ARCH D











VARIES -

GEOTEXTILE TERRAFIX 400W (IF

REQUIRED UNDER REVIEW OF

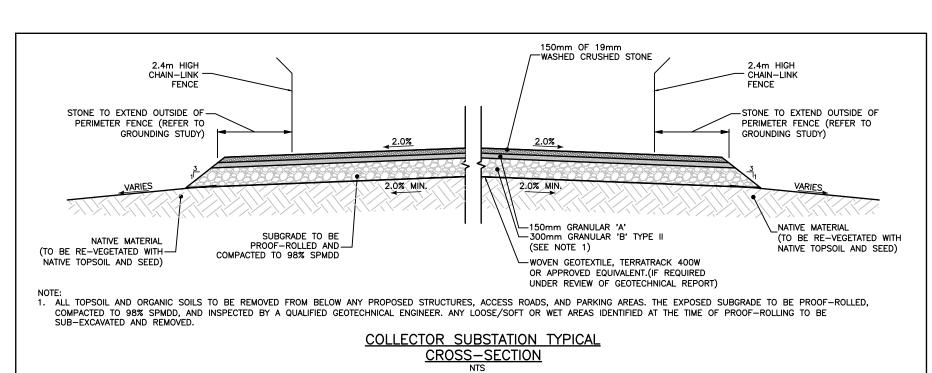
GEOTECHNICAL REPORT)

воттом о

NATIVE MATERIAL __/

(TO BE RE-VEGETATED WITH

NATIVE TOPSOIL AND SEED)



TYPICAL SUPERELEVATED CROSS-SECTION 5.0m WIDE ACCESS ROAD DETAIL (CUT)

6.0 m / 2.5 m

2.0%

3.0% MIN.

ALL TOPSOIL AND ORGANIC SOILS TO BE REMOVED FROM BELOW ANY PROPOSED STRUCTURES, ACCESS ROADS, AND PARKING AREAS. THE EXPOSED

PROOF—ROLLING TO BE SUB—EXCAVATED AND REMOVED.

GEOTECHNICAL RECOMMENDATION OF ROAD STRUCTURE TO BE CONFIRMED BASED ON SITE CONDITIONS BY A QUALIFIED GEOTECHNICAL ENGINEER.

GEOTECHNICAL REPORT)

SUBGRADE TO BE PROOF-ROLLED AND INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER. ANY LOOSE/SOFT OR WET AREAS IDENTIFIED AT THE TIME OF

TYPICAL SUPER-ELEVATED CROSS-SECTION

6.0m/5.0m WIDE ACCESS ROAD

DETAIL(FILL)

3.0 m / 2.5 m

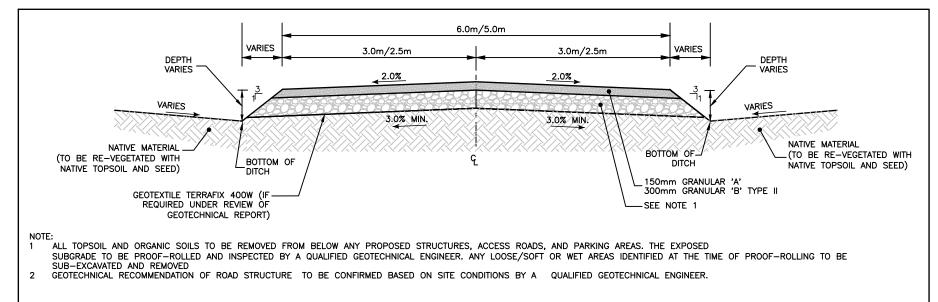
BOTTOM OF-

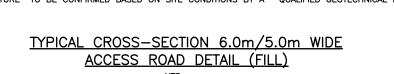
—SEE NOTE 1

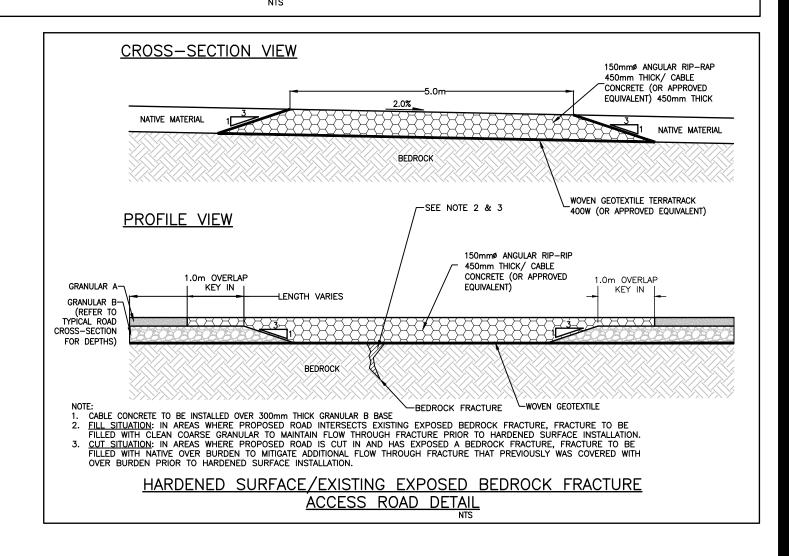
DITCH

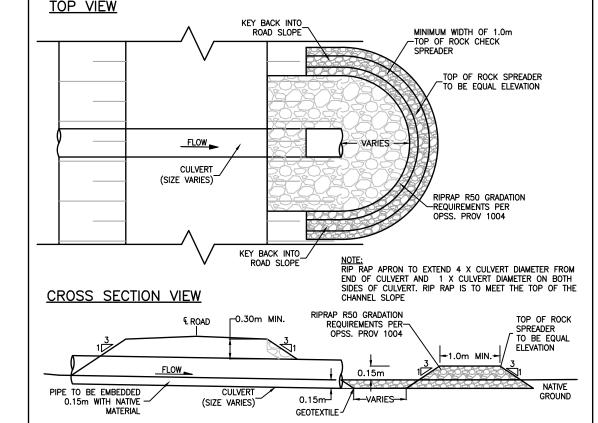
3.0% MIN.

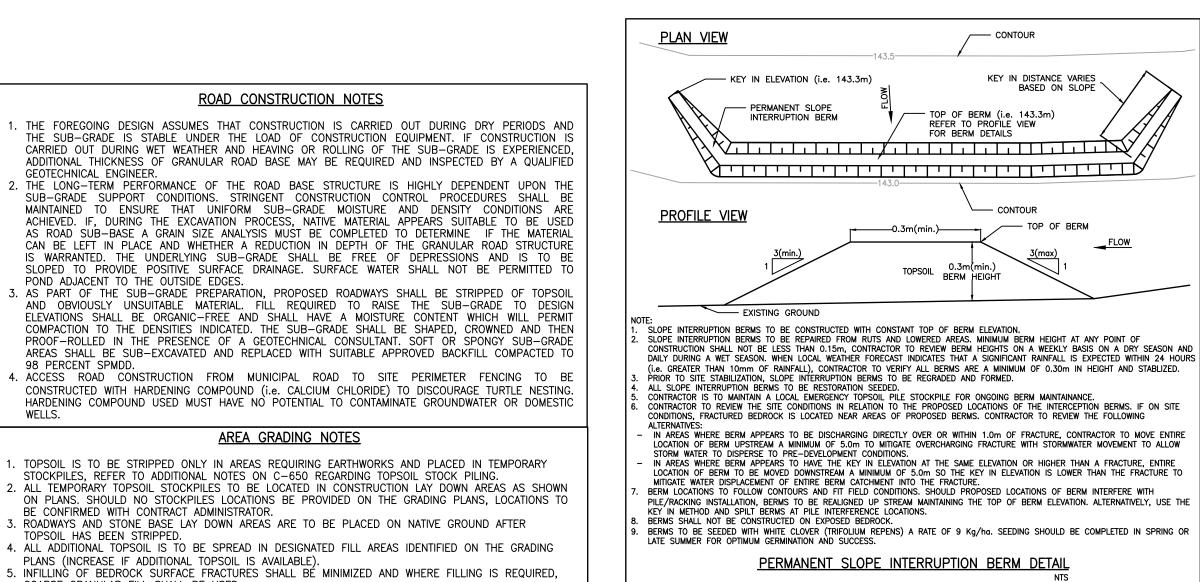
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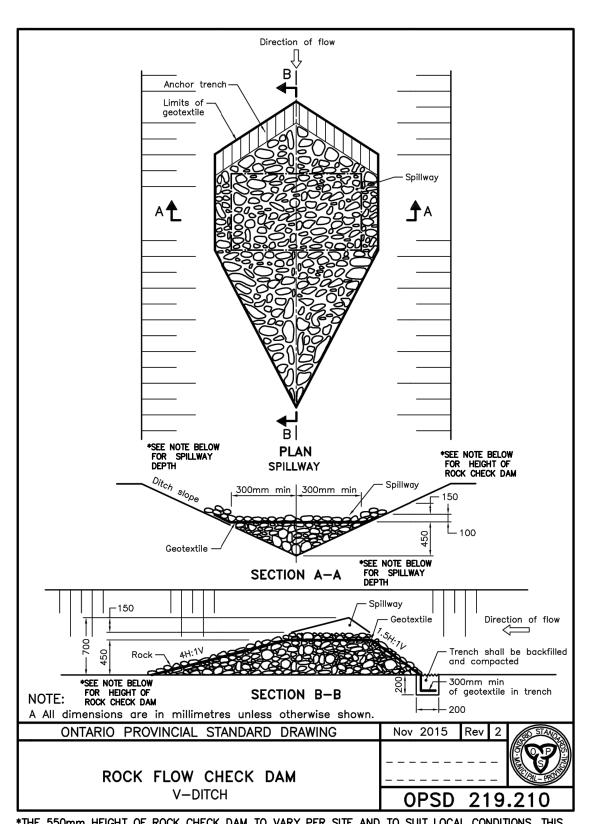








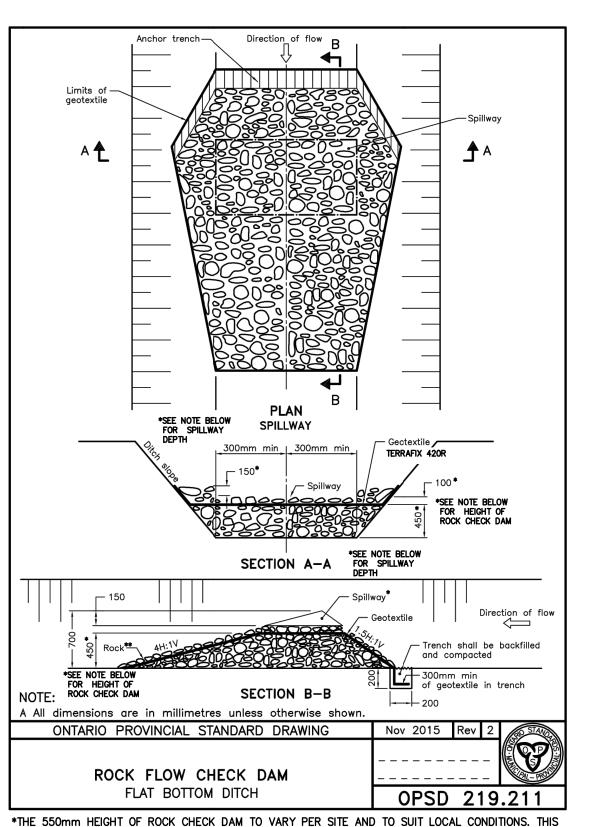




6. SCARIFICATION TO BE PREFORMED AT THE END OF CONSTRUCTION, BEFORE RESTORATION SEEDING.

COARSE GRANULAR FILL SHALL BE USED.

*THE 550mm HEIGHT OF ROCK CHECK DAM TO VARY PER SITE AND TO SUIT LOCAL CONDITIONS. THIS VARIANCE IS NOTED ON ENGINEER DRAWINGS AS HEIGHT OF DAM. SPILLWAY DEPTH ALSO NOTED ON THE ENGINEER DRAWINGS. **RIP RAP TO BE IN ACCORDANCE WITH OPSS 1004 RIP RAP R50 GRADATION



VARIANCE IS NOTED ON ENGINEER DRAWINGS AS HEIGHT OF DAM. SPILLWAY DEPTH ALSO NOTED ON THE ENGINEER DRAWINGS. **RIP RAP TO BE IN ACCORDANCE WITH OPSS 1004 RIP RAP R50 GRADATION



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NATIVE MATERIAL

AND SEED)

NATIVE MATERIAL

150mm GRANULAR 'A'
300mm GRANULAR 'B' TYPE II

TOPSOIL AND SEED)

PROOF-ROLLING TO BE

-(TO BE RE-VEGETATED WITH NATIVE

—(TO BE RE−VEGETATED

WITH NATIVE TOPSOIL



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IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON THE PRIVATE PROPERTY TO PERFORM ANY WORKS. COPIES OF THESE LETTERS OF CONSENT MUST BE SUBMITTED TO STANTEC,

PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT THE PROPERTY OWNERS OWN RISK. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY.

THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER. THE SITE IS TO BE FINE GRADED/LEVELED LEAVING THE SITE IN A NEAT APPEARANCE SUCH THAT POSITIVE DRAINAGE IS ACHIEVED EVERYWHERE PRIOR TO THE INSTALLATION OF SOLAR PANELS. CONSTRUCTION TURNING RADIUS LIMITS IDENTIFY AREAS WHERE ADDITIONAL ROAD WIDTH IS REQUIRED TO ALLOW FOR ADEQUATE CLEARANCE FOR CONSTRUCTION VEHICLES.

CULVERTS ARE TO BE INSTALLED AS PER OPSD 802.010. SOIL TYPE TO BE CONFIRMED ON SITE

FOR DETERMINATION OF TRENCH WIDTH.

ALL AREAS WITHIN THE PROPOSED WORKS ARE TO BE RE-VEGETATED USING NATIVE TOPSOIL AND SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO IMPLEMENTATION.

TEMPORARY EROSION CONTROL TO BE COMPLETED IN ACCORDANCE WITH OPSS 201.

TEMPORARY EROSION CONTROL TO BE COMPLETED IN ACCORDANCE WITH OPSS 577.

GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS 206. GRANULAR MATERIAL TO BE USED IN

ACCORDANCE WITH OPSS 1010. CULVERT TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 421. HEIGHT OF FILL TABLE FOR CSP

CULVERTS TO COMPLY WITH OPSD 805.010.

3. RIPRAP SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B—B.

4. ROCK SPOIL FROM PILE INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.

MALM DS 18.01.16 PEVISED NOTES AND DETAILS 17.12.21 REVISED NOTES AND DETAILS DRR DS 17.12.15 17.11.30 REVISED NOTES AND DETAILS DRR DS 17.11.23 KDB REVISED NOTES AND DETAIL DS DRR 17.11.23 DS Appd. YY.MM.DD Revision File Name: 133560220_C-DT.dwg DRR DS DRR 17.10.18 Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

Client/Project

LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

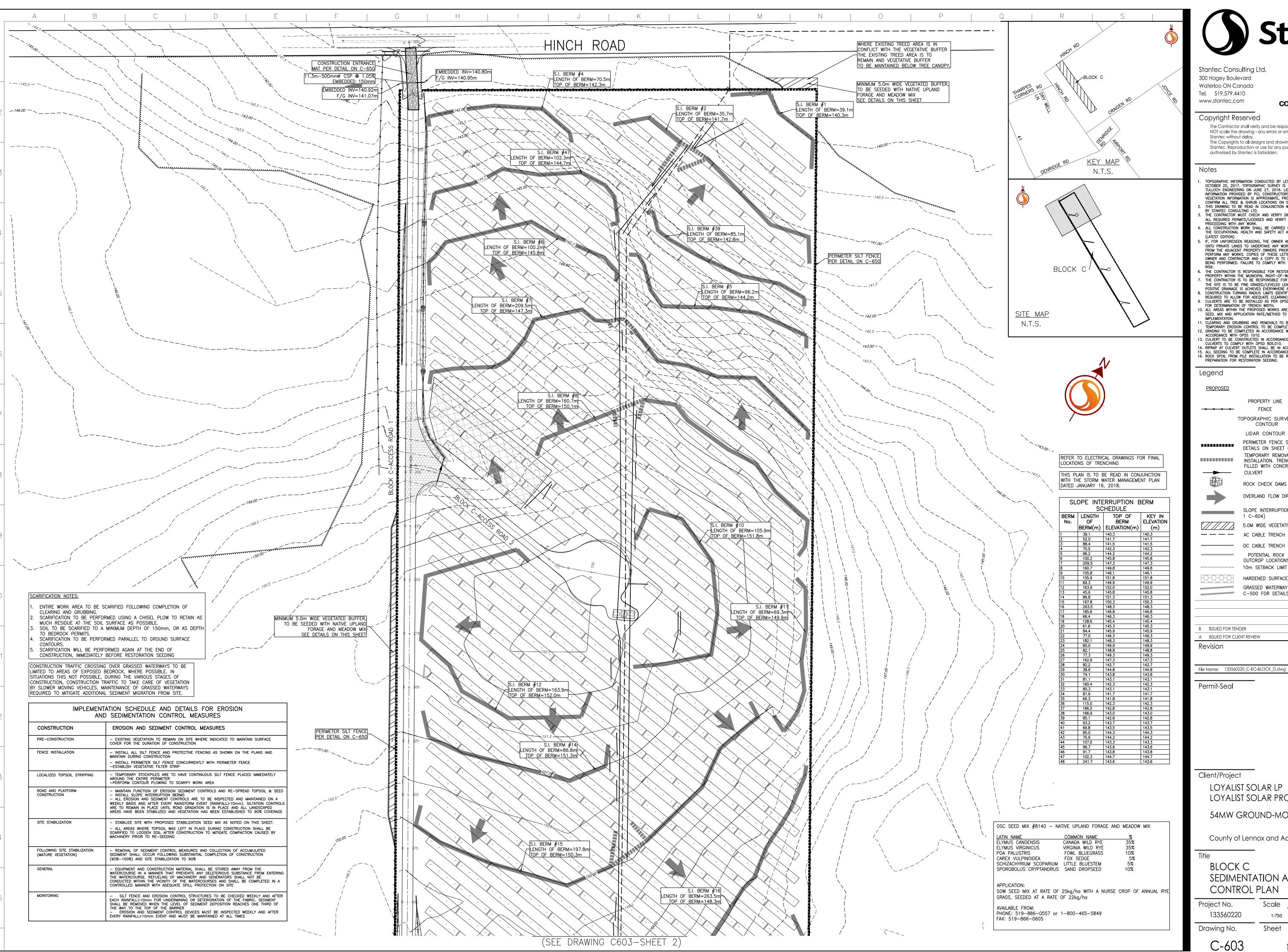
54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

GENERAL DETAILS AND NOTES

Scale Project No. AS NOTED 133560220 Drawing No. Sheet Revision 2 of 2

ORIGINAL SHEET - ARCH D



ORIGINAL SHEET - ARCH D



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> OVERLAND FLOW DIRECTION SLOPE INTERRUPTION BERM (SEE DETAIL ON SHEET 1 C-604) 5.0M WIDE VEGETATIVE BUFFER

DC CABLE TRENCH POTENTIAL ROCK OUTCROP LOCATIONS 10m SETBACK LIMIT NO TOUCH ZONE

ROCK CHECK DAMS (SEE DETAILS ON SHEET C-650)

HARDENED SURFACE GRASSED WATERWAY (SEE DETAILS ON SHEET C-500 FOR DETAILS)

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Client/Project

LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

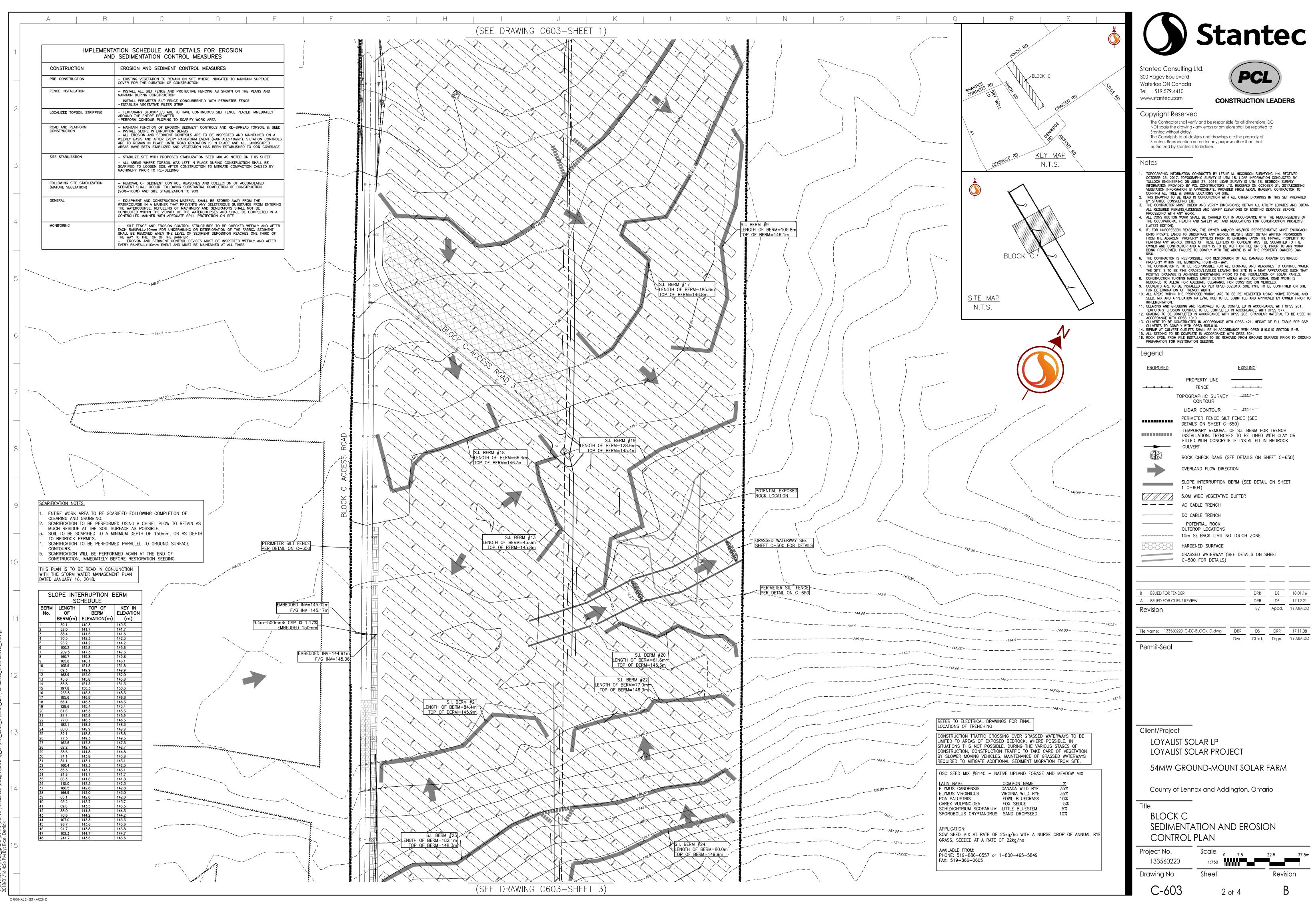
54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

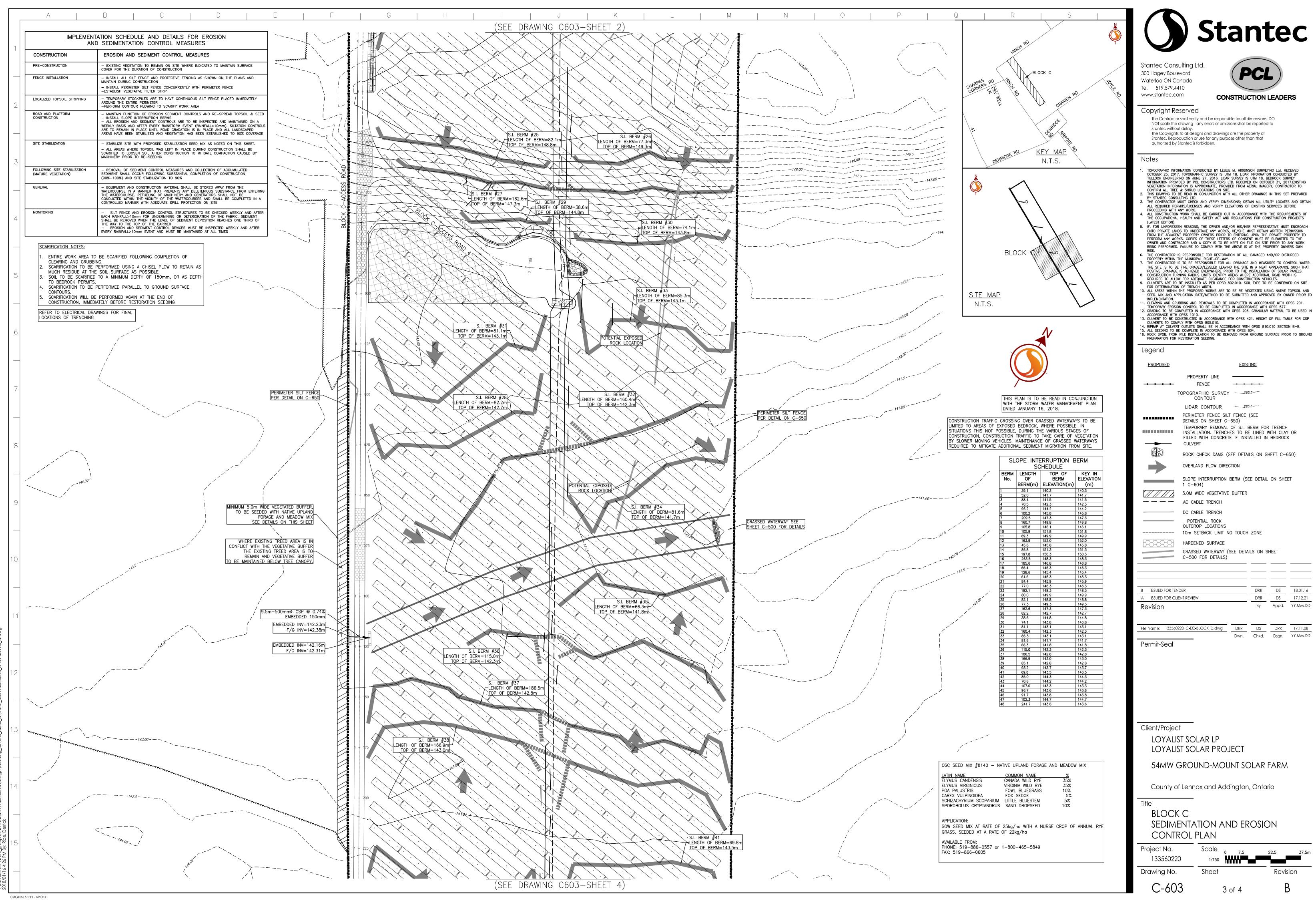
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SEDIMENTATION AND EROSION CONTROL PLAN

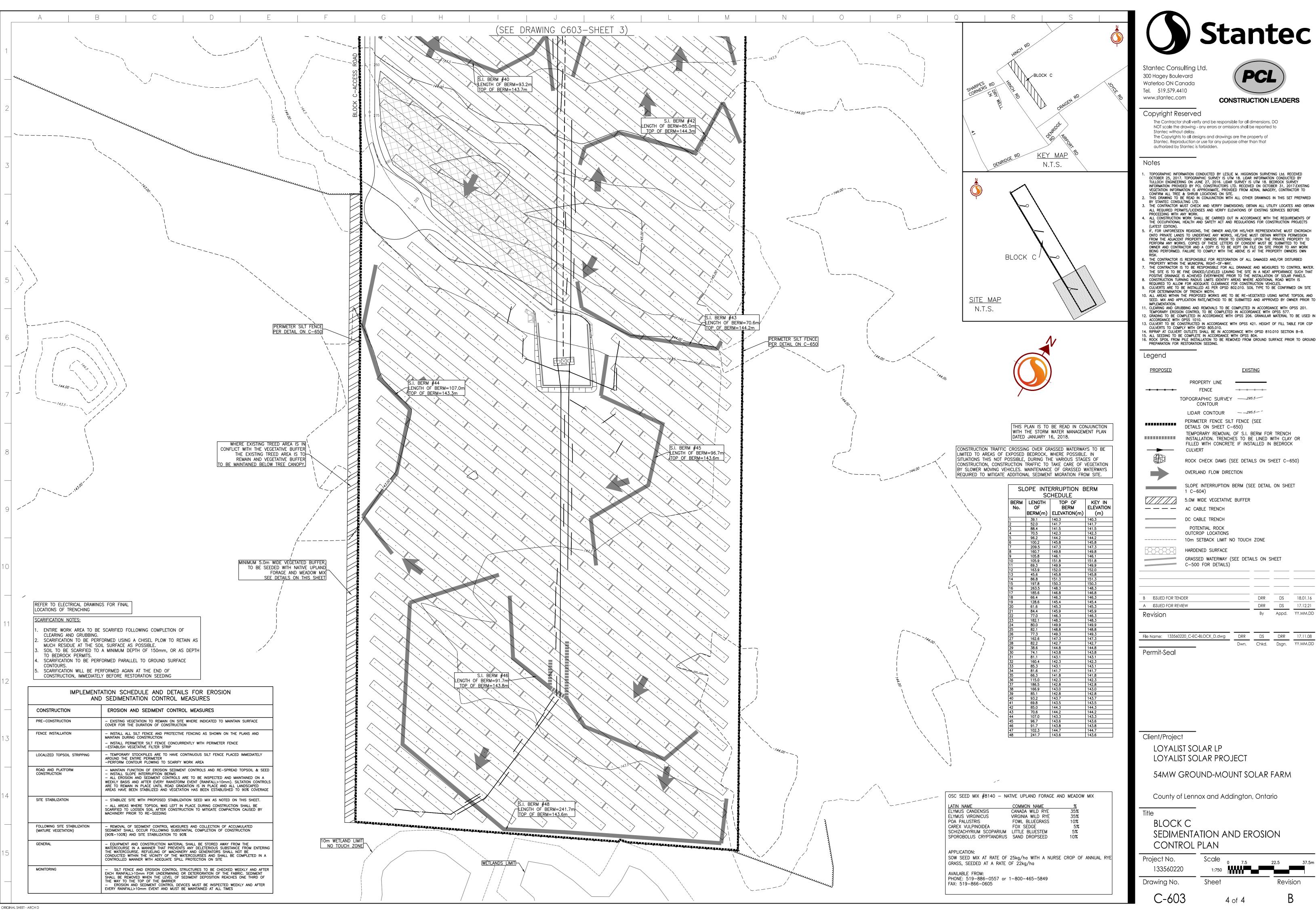
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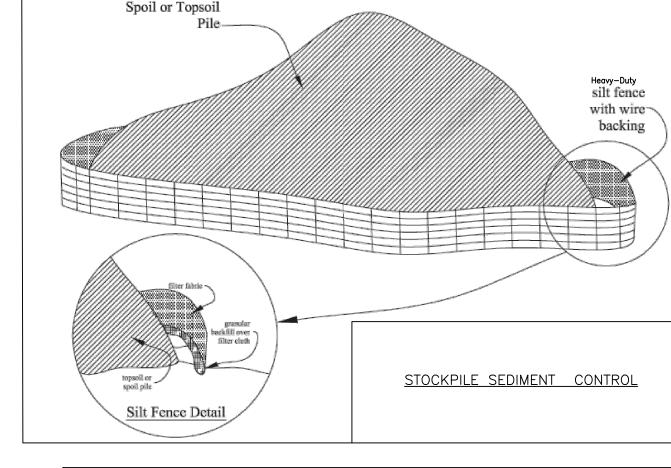
LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

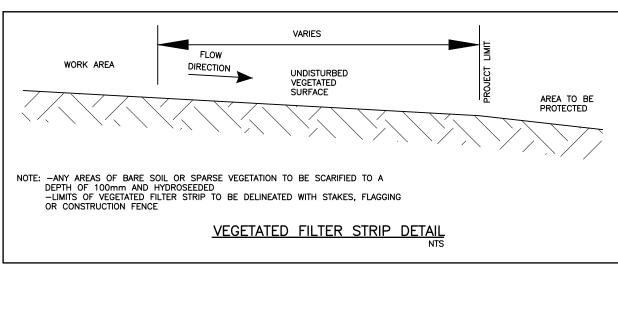
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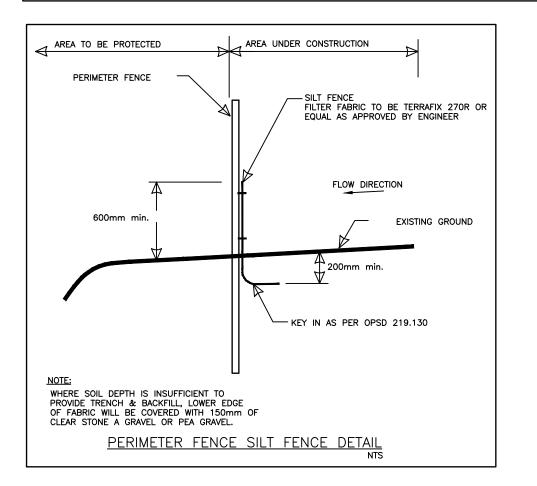
BLOCK C SEDIMENTATION AND EROSION CONTROL PLAN

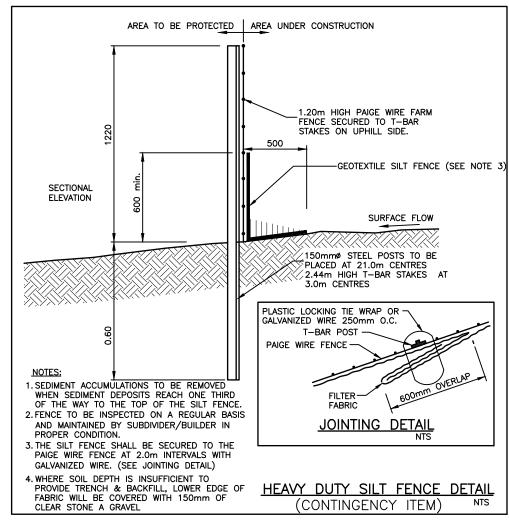
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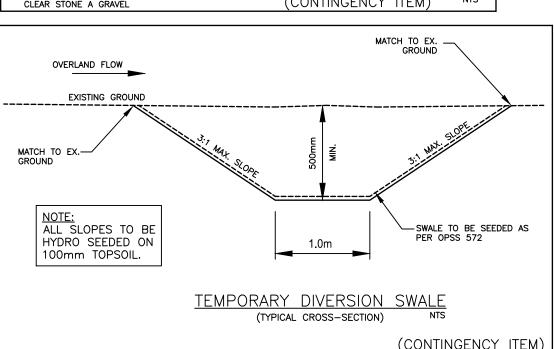


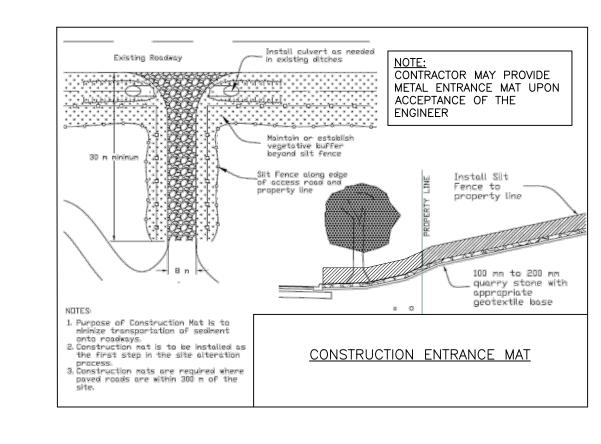
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EROSION AND SEDIMENT CONTROL NOTES: (SEE DETAILS THIS SHEET)

- 1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT AND DURATION OF EXPOSED SOIL AND INSTALLING SILT FENCES AND OTHER SEDIMENT TRAPS/FILTERS SIMILAR TO THOSE ILLUSTRATED HEREIN.
- EROSION AND SEDIMENT CONTROL WORKS SHALL BE INSTALLED AND IN WORKING CONDITION PRIOR TO COMMENCEMENT OF CONSTRUCTION RELATED ACITVITIES.
- SEDIMENT CONTROL MEASURES ADJACENT TO CONSTRUCTION AREAS MAY REQUIRE REMOVAL / RELOCATION IN ORDER TO COMPLETE SPECIFIC CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL
- ENSURE THAT ADEQUATE SEDIMENT CONTROL MEASURES ARE IN PLACE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND BOLSTER EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO KEEP THEM EFFECTIVE AND MINIMIZE THE POTENTIAL FOR EROSION AND MIGRATION OF SEDIMENT TO THE DOWNSTREAM NATURAL ENVIRONMENT
- AT THE DISCRETION OF THE OWNER OR OWNER'S CONSULTANT, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.
- STOCKPILED MATERIAL IS TO BE STORED AWAY FROM WATER BODIES. WETLANDS AND OTHER SENSITIVE RECEIVERS IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THAT FEATURE AND BE SURROUNDED BY EROSION CONTROL MEASURE WHERE MATERIAL IS TO BE LEFT IN PLACE IN EXCESS OF 10 DAYS OR PRIOR TO A RAIN EVENT, WHICHEVER OCCURS SOONER.
- SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. ALL SEDIMENT SHALL BE REMOVED AND TOPSOIL WITH SEED TO BE ADDED IF NECESSARY.
- ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS 180, PRIOR TO THE REMOVAL OF ANY CONTROL MEASURE.

OF SEDIMENT DEPOSITION REACHES ONE THIRD OF THE WAY TO THE TOP OF THE BARRIER.

- 9. SILT FENCE AND EROSION CONTROL STRUCTURES TO BE CHECKED DAILY AND AFTER EACH RAINFALL (>10mm) BY A QUALIFIED INSPECTOR FOR DEFICIENCIES. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL
- STOCKPILED MATERIAL IS TO BE STORED A SUFFICIENT DISTANCE FROM WATERCOURSES. TO PRECLUDE SEDIMENT INPUTS DUE TO EROSION OF STORED SOIL MATERIALS. WHERE STOCKPILED EXCAVATED NATIVE MATERIALS AND IMPORTED MATERIALS WITH A D50 LESS THAN 4.75mm ARE TO BE LEFT IN PLACE UNDISTURBED IN EXCESS OF 30 DAYS, STOCKPILES ARE TO BE COVERED WITH A ROLLED EROSION CONTROL PRODUCT (RECP) SUCH AS A TARP. SINGLE NET STRAW MAT OR DOUBLE NET STRAW MAT. IMPORTED MATERIALS WITH A D50 OF 4.75mm OR GREATER CAN REMAIN UNCOVERED. GRANULAR A AND B (TYPE II) GRADATION REQUIREMENTS ALLOW UP TO 55% PERCENT PASSING A 4.75mm SIEVE (#4 SIEVE), AND MAY BE STOCKPILED WITHOUT COVERING WITH AN RECP.
- EROSION AND SEDIMENT CONTROL MONITORING RECORDS SHALL BE KEPT AND MADE AVAILABLE TO THE MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE AND QUINTE CONSERVATION UPON REQUEST.
- 12. IN THE EVENT OF INCLEMENT WEATHER OR UNFAVOURABLE TERRAIN FOR CONSTRUCTION, CONSTRUCTION BEST PRACTICES, SUCH AS TEMPORARY RIG-MATS MAY BE USED TO PREVENT DISRUPTION OF SURFACE
- SOILS AND VEGETATIVE COVER BY CONSTRUCTION VEHICLES AND EQUIPMENT. EQUIPMENT AND CONSTRUCTION MATERIAL SHALL BE STORED AWAY FROM WATER BODIES IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THE WATER, REFUELLING OF MACHINERY AND GENERATORS SHALL NOT BE CONDUCTED WITHIN 30m OF A WATER BODY OR WETLAND AND SHALL
- ADDITIONAL CONTROLS MAY BE REQUIRED DUE TO UNFORESEEN CIRCUMSTANCES, CHANGING SITE CONDITIONS OR IF THE PROPOSED CONTROLS DO NOT ACHIEVE THEIR ANTICIPATED RESULT. IN THESE CIRCUMSTANCES, ADDITIONAL CONTROLS WILL BE INSTALLED CONSISTENT WITH THE EROSION AND SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION (GREATER GOLDEN HORSESHOE CONSERVATION AUTHORITIES, DECEMBER, 2006). THE LOCATIONS AND APPLICATION OF THE CONTROLS WILL BE APPROVED BY THE INSPECTOR PRIOR TO THEIR INSTALLATION.

BE COMPLETED IN A CONTROLLED MANNER WITH ADEQUATE SPILL PROTECTION ON SITE

- 15. PUBLIC ROADS TO BE CLEANED DAILY OF ACCUMULATED SEDIMENT CAUSED BY CONSTRUCTION. 16. IN ADDITION TO BEING RESPONSIBLE FOR ENSURING THAT THE PRESCRIBED MEASURES ARE INSTITUTED AND FUNCTIONING AS INTENDED, THE CONTRACTOR IS ALSO RESPONSIBLE FOR IMPLEMENTING ANY INTERIM OR EMERGENCY MEASURES REQUIRED, TO ENSURE THAT NO SEDIMENT IS DISCHARGED TO THE NATURAL ENVIRONMENT. THE FOLLOWING EXTRA EQUIPMENT/MATERIALS ARE TO BE KEPT ON SITE AS A CONTINGENCY, IN CASE THE PROPOSED CONTROL MEASURES ARE BREACHED.
- SILT FENCE
- FILTER CLOTH
- PUMPS
- CLEAN RIP-RAP (FREE OF FINES) FOR ROCK CHECK DAMS
- SAND BAGS
- ANY ADDITIONAL MATERIAL DEEMED NECESSARY TO REPAIR/ CONSTRUCT PROPOSED MEASURES OR TO ADEQUATELY DEAL WITH UNEXPECTED HIGH FLOWS

DURING AREA GRADING :

- TOPSOIL IS TO BE STRIPPED ONLY IN AREAS REQUIRING EARTHWORKS AND PLACED IN STOCKPILES AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED BY THE QUALIFIED ENVIRONMENTAL SITE INSPECTOR. 2. ROADWAYS AND LAY DOWN YARDS ARE TO BE PLACED ON NATIVE GROUND AFTER TOPSOIL HAS BEEN
- 3. ALL TOPSOIL IS TO BE RE-SPREAD ON CONSTRUCTION IMPACTED AREAS TO A MINIMUM DEPTH OF 150mm AFTER FINAL GRADING IS COMPLETION.
- 4. NO TOPSOIL MAY BE EXPORTED FROM THE SITE.
- 5. INFILLING OF BEDROCK FRACTURES SHALL BE MINIMIZED AND IF NECESSARY, COARSE GRANULAR FILL SHALL BE USED.

SEEDING MAINTENANCE NOTES:

- 1. CONTRACTOR SHALL REPAIR AND RESEED DEAD OR BARE SPOTS PRIOR TO SUBSTANTIAL COMPLETION.
- 2. SEEDING SHALL BE WATERED AS REQUIRED TO ESTABLISH WEED-FREE, HEALTHY ESTABLISHMENT OF SEED
- 3. CONTROL NOXIOUS AND INVASIVE WEED GROWTH DURING (2) YEAR MAINTENANCE PERIOD. NATIVE SPECIES THAT HAVE GERMINATED NATURALLY SHALL BE RETAINED (i.e. GOLDENRODS, ASTERS etc.) REFER TO OMAFRA'S NOXIOUS WEEDS IN ONTARIO FOR A LIST OF SPECIES TO BE REMOVED http://www.omafra.gov.on.ca/english/crops/facts/noxious_weeds.htm
- 4. SEEDED AREAS SHALL BE UNIFORM, FREE OF RUTS EROSION AND/OR BARE AND DEAD SPOTS, FREE OF WEEDS, AND HAVE, MINIMUM 80% COVER OF GERMINATED PERENNIAL SEED FOR FINAL ACCEPTANCE.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO SEEDED AREAS AND SHALL RESTORE IT TO ORIGINAL CONDITION TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- 6. THE CONTRACTOR SHALL REPAIR ANY RILLS FORMED BELOW THE LOWER EDGE OF THE SOLAR PANELS PRIOR TO SEEDING.

AFTER AREA GRADING:

ALL AREAS WHERE ACTIVE CONSTRUCTION IS NOT EXPECTED FOR 30 DAYS SHALL BE RE-SEEDED WITH NATIVE PLANT SPECIES PER LANDSCAPE PLAN REMOVAL OF SEDIMENT CONTROL MEASURES AND COLLECTION OF ACCUMULATED SEDIMENT SHALL OCCUR FOLLOWING SUBSTANTIAL COMPLETION OF CONSTRUCTION (90%-100%) AND SITE

SILT FENCE NOTES (AS PER OPSD):

- 1. STAKES/POSTS ARE TO BE INSTALLED ON THE DOWNSTREAM SIDE OF THE BARRIER.
- 2. SILT FENCE FABRIC TO BE TERRAFIX 270R OR EQUIVALENT.
- 3. CONTRACTOR TO MONITOR SILT FENCE FOR UV DEGRADATION AND UNDERMINING 4. PAIGE WIRE TO BE 16 GAUGE OR HEAVIER

ROLLED EROSION CONTROL PRODUCT (RECP) NOTES:

- 1. EITHER ROLLED EROSION CONTROL PRODUCTS (RECP) OR MULCHMAX ULTRA AT 500KG/HA ARE TO BE USED ON 3:1 SLOPES OR GREATER.
- 2. RECP SHALL BE BIODEGRADABLE AND CONSIST OF STRAW, STRAW-COCONUT, OR COCONUT FIBER WHICH ARE HELD IN PLACE BY NETTING SEWN ON BOTH SIDES OF THE MATERIAL. RECP MUST BE SECURED ON STOCKPILE BY STAPLING AT THE BOTTOM OF THE SLOPE AND UPHILL
- TRENCHES ON THE STOCKPILE/SLOPED SURFACE. 4. RECP PRODUCTS ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. INSTALLATION TO BE
- INSPECTED AND REPAIRED AS NEEDED. RECP ARE TO BE APPLIED AS SOON AS POSSIBLE FOLLOWING GRADING AND SEEDING OF SUBJECT
- 6. SURFACES ARE TO BE SMOOTH AND FREE OF STONES AND DEBRIS OR OTHER WEED CLUMPS PRIOR
- TO RECP BEING INSTALLED. 7. CONTRACTOR TO ENSURE THAT RECP IS SECURED AT THE TOP OF THE SLOPE IN A TRENCH AND
- OVERLAP (SIDE TO SIDE AND BOTTOM TO TOP) CONTRACTOR TO INSPECT THE SITE DAILY AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (>10mm) AND IDENTIFY AREAS OF EROSION OR POTENTIAL EROSION. BEST MANAGEMENT PRACTICES ARE TO BE USED TO CONTROL THE EROSION. METHODS OF CONTROL MAY INCLUDE THE USE OF EROSION CONTROL BLANKETS C/W SEEDING, HYDRAULIC MULCH OR STRAW MULCH, OR SOIL BINDER. SOILS ARE TO BE STABILIZED AS SOON AS AREAS ARE IDENTIFIED TO PREVENT FURTHER EROSION.
- CONTRACTORS TO ENSURE THAT RILLING/GULLYING RECTIFIED PRIOR TO RECP OR MULCHMAX ULTRA INSTALLATION OR CONTRACTOR TO MONITOR RUNOFF UNDER THE RECP FOLLOWING INSTALLATION.

HYDRAULIC MULCH NOTES:

- COORDINATE/CONSULT WITH OWNER PRIOR TO UTILIZING ANY HYDRAULIC MULCH. TIMELINES AND SEEDING METHODS NEED TO BE CAREFULLY CONSIDERED PRIOR TO IMPLEMENTATION.
- 2. ENSURE THAT A TACKIFIER IS USED TO KEEP PRODUCT IN PLACE.
- 3. APPLY SEED MIX PRIOR TO MULCH WITH TACKIFIER.
- 4. HYDRAULIC MULCH IS TO BE APPLIED AS SOON AS GRADING AND SEEDING WORK IS COMPLETE TO ENSURE STABILIZATION OF SOILS.
- 5. RE-APPLY HYDRAULIC MULCH IF THE SUBJECT AREA IS DAMAGED OR ERODED BY WIND OR WATER, SURFACE COVERAGE MUST BE AT LEAST 80% AT ALL TIMES.

CULVERT NOTES:

- 1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED. 2. CULVERT TO BE EMBEDDED 10% OF PIPE DIAMETER BELOW DITCH INVERT OR AS NOTED.
- 3. CULVERTS TO BE CORRUGATED STEEL PIPE (CSP). PIPE MATERIAL TO BE GALVANIZED STEEL AND
- HAVE A 68mm x 13mm CORRUGATION WITH 1.6mm METAL THICKNESS. 4. CULVERT TO BE INSTALLED IN ACCORDANCE WITH OPSD 802.010.
- 5. CULVERT ELEVATIONS ARE APPROXIMATE AND ARE TO BE FINALIZED IN THE FIELD.

SCARIFICATION NOTES:

- ENTIRE WORK AREA TO BE SCARIFIED FOLLOWING COMPLETION OF CLEARING AND GRUBBING.
- 2. SCARIFICATION TO BE PERFORMED USING A CHISEL PLOW TO RETAIN AS MUCH RESIDUE AT THE SOIL SURFACE AS POSSIBLE.
- 3. SOIL TO BE SCARIFIED TO A MINIMUM DEPTH OF 150mm, OR AS DEPTH TO BEDROCK PERMITS.
- 4. SCARIFICATION TO BE PERFORMED PARALLEL TO GROUND SURFACE CONTOURS. 5. SCARIFICATION TO BE PREFORMED AGAIN AT THE END OF CONSTRUCTION, IMMEDIATELY BEFORE
- RESTORATION SEEDING.

CONTINGENCY MEASURES WHERE FAILURE RISK IS HIGH:

- WHERE MONITORING HAS IDENTIFIED A HIGH POTENTIAL FOR FAILURE, THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO REDUCE THE RISK. STEPS MAY INCLUDE REPAIRS TO EXISTING MEASURES, MODIFICATIONS TO EXISTING MEASURES, AND THE ADDITION OF NEW MEASURES.
- WHEN THE LOCAL WEATHER FORECAST INDICATES THAT SIGNIFICANT (I.E >10mm) RAINFALL IS EXPECTED WITHIN 24 HOURS, THE CONTRACTOR SHALL VERIFY ALL EROSION AND SEDIMENT CONTROL MEASURES ARE SECURE.

CONTINGENCY MEASURES IN CASE OF FAILURE:

- THE CONTRACTOR WILL CEASE CONSTRUCTION RELATED WORK AND FOCUS ON EROSION AND SEDIMENT CONTROL REPAIRS TO EFFECTIVELY STABILIZE THE SITE WHERE A FAILURE HAS OCCURRED OR IS IMMINENT.
- ALL SPILLS SHALL BE REPORTED TO THE ENVIRONMENTAL MONITOR FOR ASSESSMENT AND DOCUMENTATION. AND TO ESTABLISH A REMEDIAL PLAN BASED ON THE PROJECT-SPECIFIC SPILL RESPONSE PLAN. BASED ON THE ASSESSMENT OF THE EXTENT OF THE IMPACT. THE ENVIRONMENTAL MONITOR SHALL DETERMINE IF THE MOECC SPILLS ACTION CENTRE SHOULD BE NOTIFIED. SHOULD THE INCIDENT REQUIRE THAT THE SPILLS ACTION CENTRE BE NOTIFIED, THIS NOTIFICATION WILL BE UNDERTAKEN AS QUICKLY AS POSSIBLE BY CALLING 1-800-268-6060.
- IF SIGNIFICANT LONG-TERM DAMAGE TO DOWNSTREAM FISH HABITAT OR PROPERTY IS SUSPECTED. THE ENVIRONMENTAL MONITOR WILL IMMEDIATELY ASSESS AND DOCUMENT THE SITUATION AND REPORT THE INCIDENT TO THE MOECC SPILLS ACTION CENTRE. THE CONTRACTOR WILL DEVELOP A RESTORATION PLAN IN CONSULTATION WITH MOECC. DEVELOPMENT OF THE INITIAL RESTORATION PLAN WILL BEGIN WITHIN 24 HOURS OF THE DISCOVERY OF SEDIMENT DISCHARGE, AND WILL BE IMPLEMENTED AS SOON AS POSSIBLE. FOLLOWING CONSULTATION AND APPROVAL FROM THE MOECC, QC, DFO (IF NECESSARY) AND THE TOWNSHIP OF STONE MILLS
- 4. THE RESTORATION PLAN WILL ADDRESS: • REMOVAL AND DISPOSAL OF SEDIMENT FROM OUTSIDE THE WORK LIMITS,
- RESTORATION OF THE AFFECTED AREA, AND • RESTORATION OF ANY AREAS DISTURBED THROUGH DEPOSITION OR REMOVAL.

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Permit-Seal

Client/Project LOYALIST SOLAR LP

LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Title

SEDIMENTATION AND EROSION CONTROLS DETAILS

Project No. Scale AS NOTED 133560220 Drawing No. Sheet Revision

1 of 1

Dwn. Chkd. Dsgn. YY.MM.DD

ORIGINAL SHEET - ARCH D