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Notes

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- LOCATION ON SITE. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY STANTEC CONSULTING LTD. THE CONTRACTOR MUST CHECK AND VERIFY DIMENSIONS; OBTAIN ALL UTILITY LOCATES AND OBTAIN
- ALL REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING WITH ANY WORK.
- ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (LATEST EDITION). IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH 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
- 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.
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 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 COMPLETED IN ACCORDANCE WITH OPSS 804.
 6. ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.

Legend		
PROPOSED		EXISTING
	TOPOGRAPHIC SURVEY CONTOUR	
	LIDAR CONTOUR	184.5
	FENCE	
	CULVERT	
	SOLAR ARRAY BLOCK DELINEATOR	
	INVERTER STATION	
• • • •	SOLAR PANEL TABLE	
	HARDENED SURFACE (RE DRAWING C—500 FOR D	
	AC CABLE TRENCH	
	DC CABLE TRENCH	
	POTENTIAL EXPOSED ROCK LOCATIONS	
	TEMPORARY LAYDOWN ARE (MATERIAL STRUCTURE TO BE DETERMINED ON SITE))
	10m SETBACK LIMIT NO TOUCH ZONE	

D	RE-ISSUED FOR TENDER	DRR	DS	17.12.18
С	RE-ISSUED FOR TENDER	DRR	DS	17.12.15
В	ISSUED FOR TENDER	DRR	DS	17.11.23
А	ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
Re	evision	Ву	Appd.	YY.MM.DD

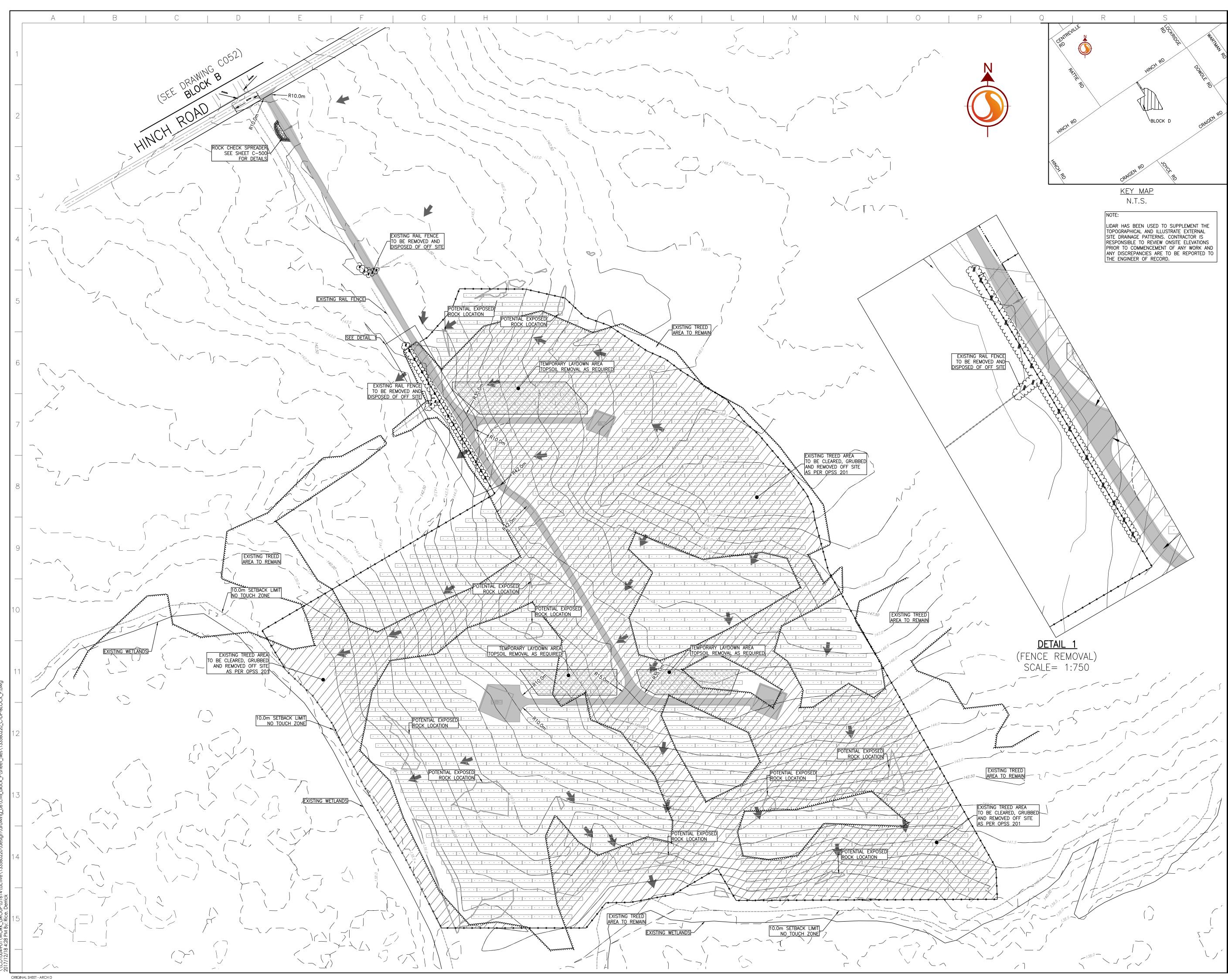
File Name: 133560220_R-SP-Block F.dwg	DRR	DS	DRR	17.10.19
	Dwn.	Chkd.	Dsgn.	YY.MM.DD
Permit-Seal				

Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Title
BLOCK D
SITE PLAN

Project No.	Scale _{0 15}	45	7
133560220	1:1500		
Drawing No.	Sheet	Revisio	วท
C-014	l of l	D	







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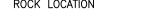
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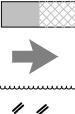
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 16. ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.

Legend

PROPOSED		EXISTING
	FENCE	
	TOPOGRAPHIC SURVEY CONTOUR	295.5
	LIDAR CONTOUR	—295.5 —
	EXISTING TREES TO E	BE CLEARED
	POTENTIAL EXPOSED	





LIMIT OF TOPSOIL REMOVAL



TREE LINE REMOVALS

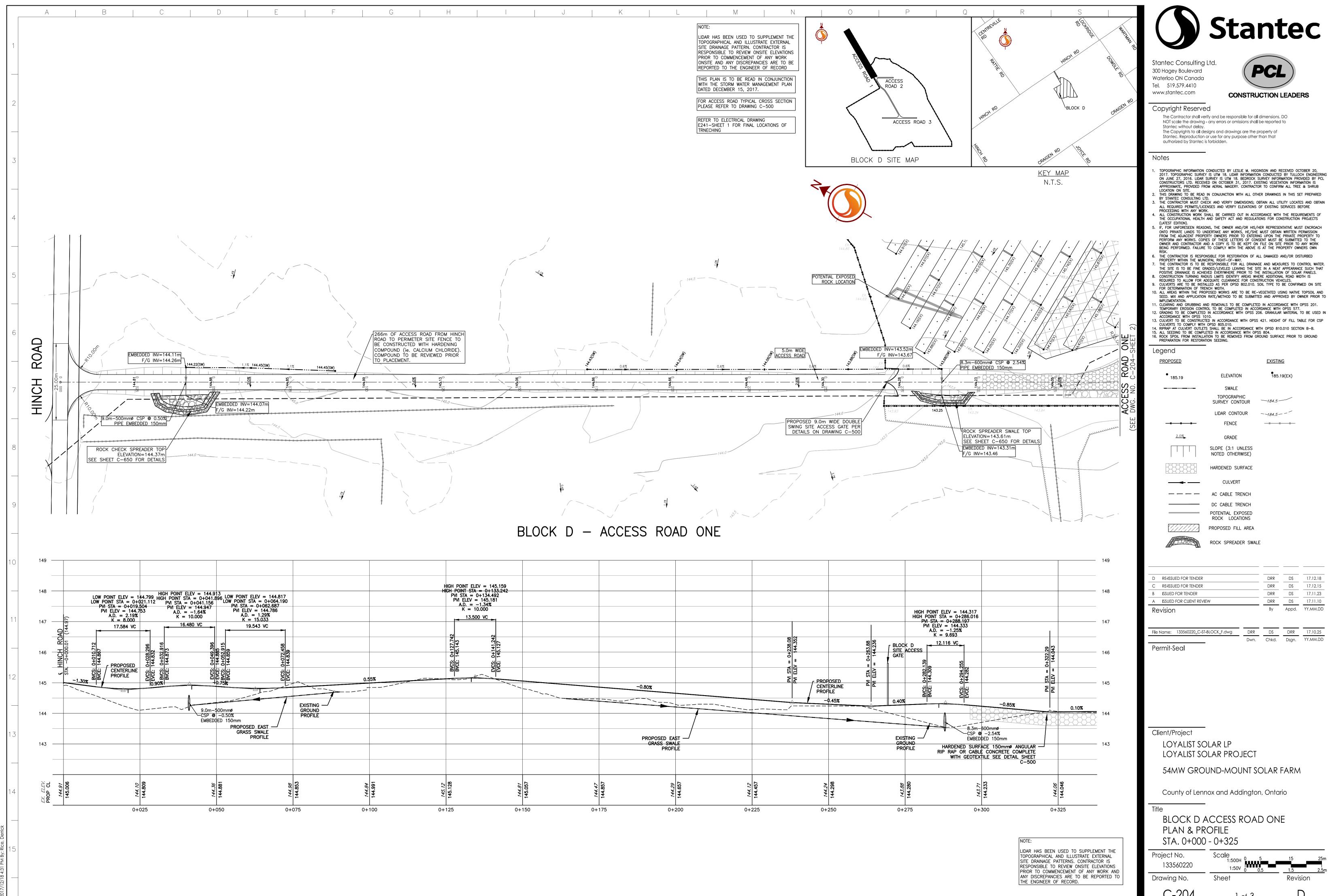
D	RE-ISSUED FOR TENDER	DRR	DS	17.12.18
С	RE-ISSUED FOR TENDER	DRR	DS	17.12.15
В	ISSUED FOR TENDER	DRR	DS	17.11.23
А	ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
Re	vision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-DP-BLOCK_F.dwg	DRR	DS	DRR	17.10.25		
		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

Title							
BLOCK D							
EXISTING CONDITIONS, CLEARING,							
	AND FENCING I	•					
Project No.	Scale _{0 15}	45 75m					
133560220	1:1500						
Drawing No.	Sheet	Revision					
C-054	1 of 1	D					



ORIGINAL SHEET - ARCH D

- . TOPOGRAPHIC INFORMATION CONDUCTED BY LESLIE M. HIGGINSON AND RECEIVED OCTOBER 20, 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 LOCATION ON SUFE LOCATION ON SITE. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY STANTEC CONSULTING LTD. THE CONTRACTOR MUST CHECK AND VERIFY DIMENSIONS; OBTAIN ALL UTILITY LOCATES AND OBTAIN PROCEEDING WITH ANY WORK. ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH

15.	ALL SEEDIN	GIOB	SE COMPLETED	IN	ACC	ORDANCE	WILH (JPSS 804	•			
16.	ROCK SPOIL	. FROM	INSTALLATION	TO	BE	REMOVED	FROM	GROUND	SURFACE	PRIOR	то	GROUND
	PREPARATIO	N FOR	RESTORATION	SFF	DIN	3.						

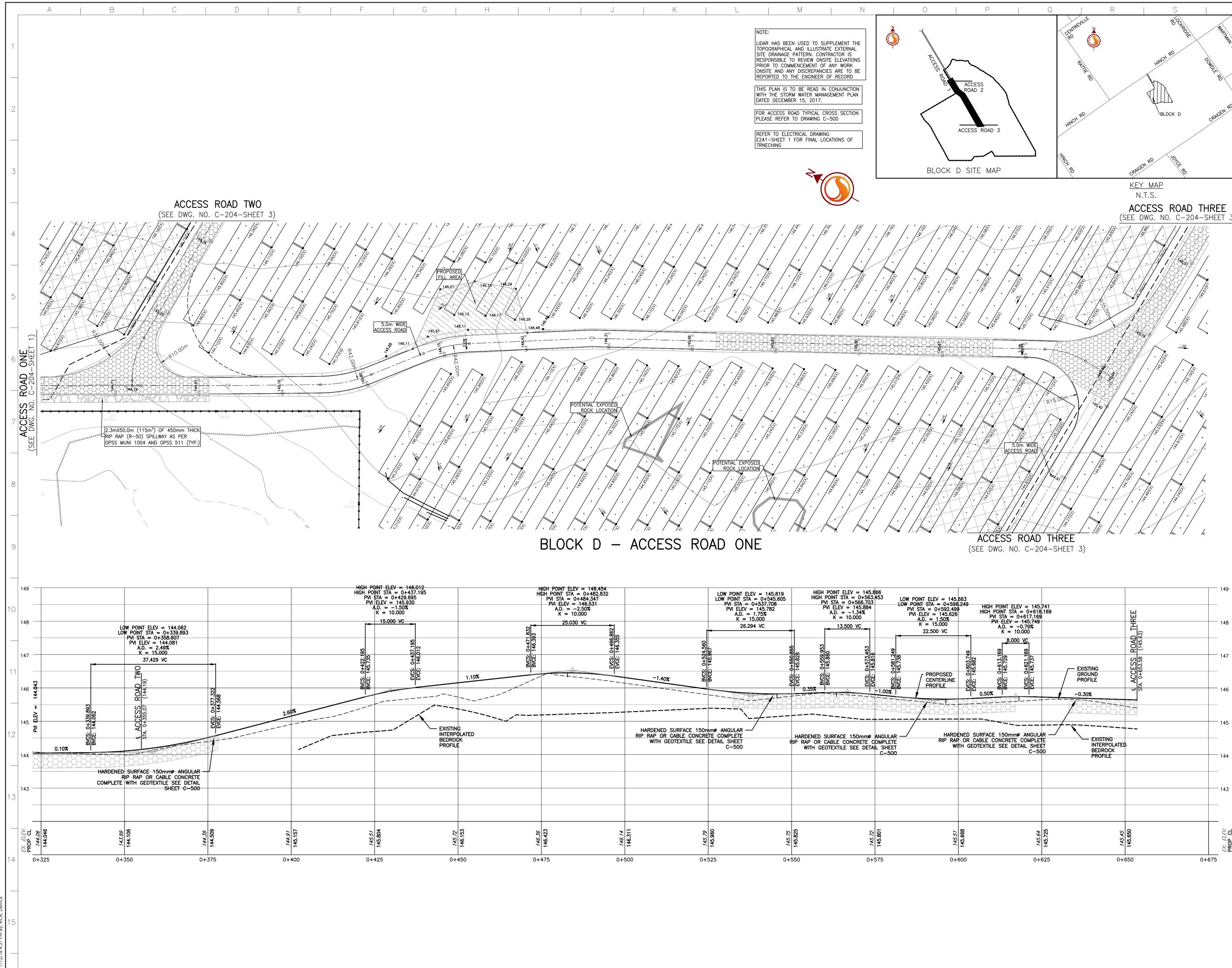
ROPOSED		EXISTING
• 185.19	ELEVATION	• 185.19(EX)
	SWALE	
	TOPOGRAPHIC SURVEY CONTOUR	-184.5
	LIDAR CONTOUR	184.5
	FENCE	XX
2.0%	GRADE	
	SLOPE (3:1 UNLESS NOTED OTHERWISE)	
	HARDENED SURFACE	
	CULVERT	
	AC CABLE TRENCH	
	DC CABLE TRENCH	
	POTENTIAL EXPOSED ROCK LOCATIONS	
	PROPOSED FILL AREA	
	ROCK SPREADER SWAL	E

D	RE-ISSUED FOR TENDER	DRR	DS	17.12.18
С	RE-ISSUED FOR TENDER	DRR	DS	17.12.15
В	ISSUED FOR TENDER	DRR	DS	17.11.23
А	ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
Re	evision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-ST-BLOCK_F.dwg	DRR	DS	DRR	17.10.25
		Dwn.	Chkd.	Dsgn.	YY.MM.DD
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County of	Lennox	and	Add	lingt	ton,	Ont	ario

Title			
BLOCK D A	ACCESS ROAD ON	E	
PLAN & PR	OFILE		
STA. 0+000	- 0+325		
Project No.	Scale 1:500H 05	15	25
133560220	1:50V 0 0.5	1.5	2.5
Drawing No.	Sheet	Revision	
C-204	1 of 3	D	



ORIGINAL SHEET - ARCH D

HIGH POINT STA = $0+482.83$ PVI STA = $0+484.347$ PVI ELEV = 146.531 A.D. = -2.50% K = 10.000 25.030 VC 14% 10% 10%	52 52 52 52 53 53 53 53 53 53 53 53 53 53	LOW POINT ELEV LOW POINT STA = PVI STA = 0 PVI ELEV = A.D. = 1 K = 15 26.294 00 55 55 55 55 55 55 55 55 55	= 0+545.605 HIGH +537.708 P 145.782 I 1.75% .000 I VC I VC I VC I VC I VC I VC I VC I VC	POINT ELEV = 145.866 POINT STA = $0+563.453$ VI STA = $0+566.703$ VI ELEV = 145.884 A.D. = -1.34% K = 10.000 13.500 VC 0 0 0 0 0 0 0 0 0 0 0 0 0		563 249 HIGH POINT PVI STA PVI ELL A.D. K 420 249 PVI ELL A.D. K 420 249 PVI ELL A.D. K 420 249 0.50% 0 420 249 0.50%
ED	RIP RAP OR (SURFACE 150mmø ANGULAR/ CABLE CONCRETE COMPLETE DTEXTILE SEE DETAIL SHEET C-500	RIP RAP OR	SURFACE 150mmø ANGULAR CABLE CONCRETE COMPLETE OTEXTILE SEE DETAIL SHEET C-500	RIP RAP WIT	NED SURFACE 150 OR CABLE CONCF H GEOTEXTILE SEE
9 <u>6</u> 9 7 1 146.36 0+475	0+500	0+525	142.75 145.825 145.825	0+575	145.51 145.51	



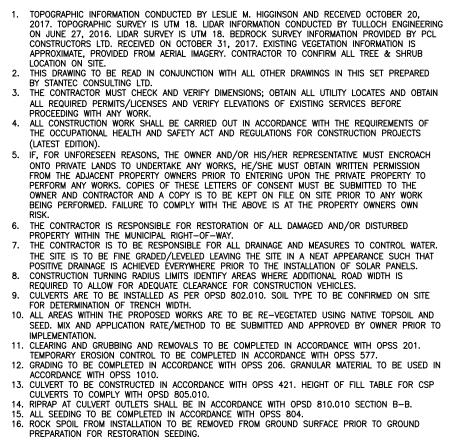
Stantec Consulting Ltd. 300 Hagey Boulevard Waterloo ON Canada Tel. 519.579.4410 www.stantec.com



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Notes



- PREPARATION FOR RESTORATION SEEDING.

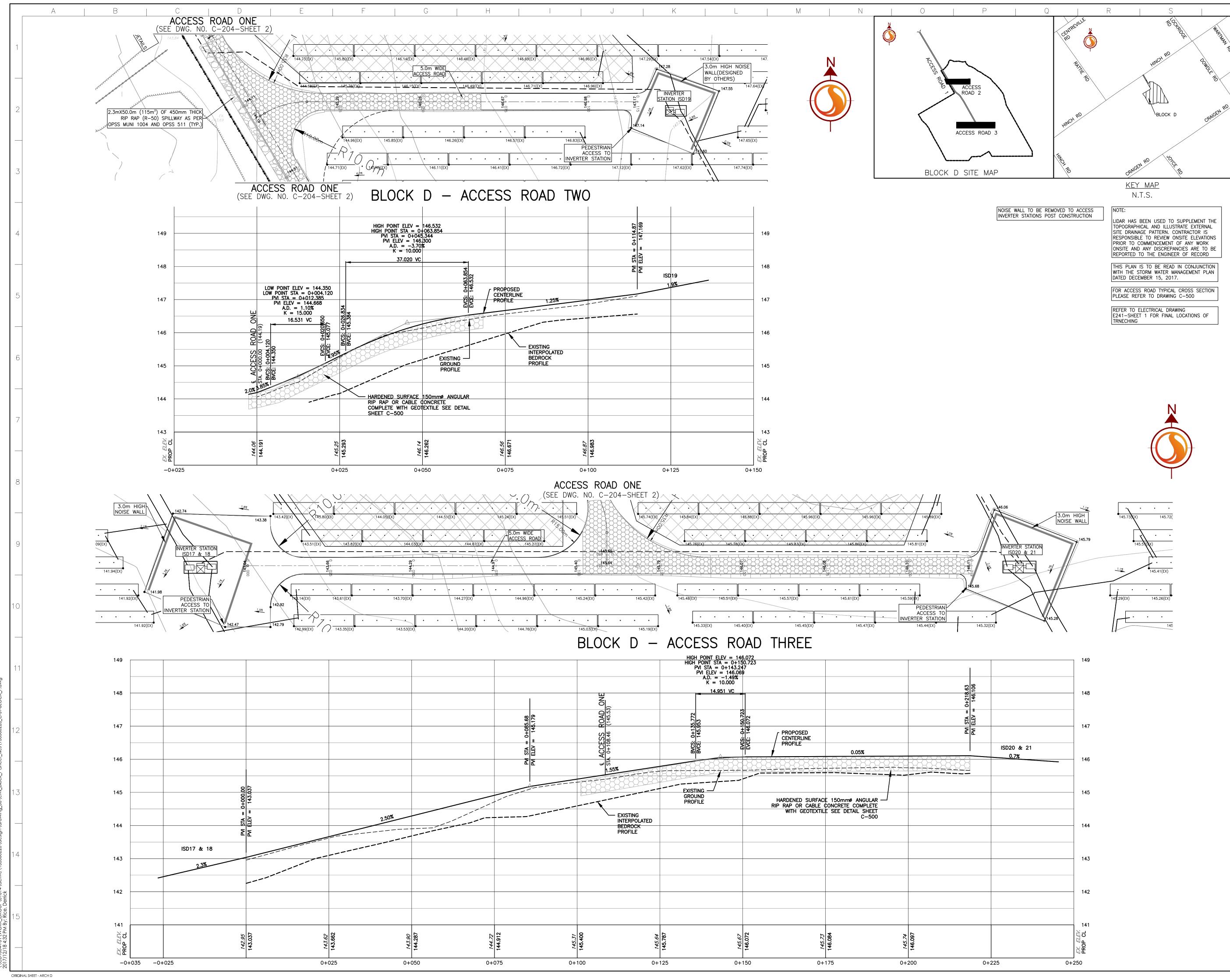
Legend		
PROPOSED		EXISTING
• 185.19	ELEVATION	• 185.19(EX)
	SWALE	
	TOPOGRAPHIC SURVEY CONTOUR	
	LIDAR CONTOUR	184.5
~ × × ×	FENCE	x
2.0%	GRADE	
	SLOPE (3:1 UNLESS NOTED OTHERWISE)	
	HARDENED SURFACE	
—4 —	CULVERT	
	AC CABLE TRENCH	
	DC CABLE TRENCH	
	POTENTIAL EXPOSED ROCK LOCATIONS	
	PROPOSED FILL AREA	
	ROCK SPREADER SWAL	E

		17.12.18
 		17.12.15
 DRR	DS	17.11.23
 DRR	DS	17.11.10
Ву	Appd.	YY.MM.DD
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File Name: 133560220_C-ST-BLOCK_F.dwg	DRR	DS	DRR	17.10.25
	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

Title BLOCK D A PLAN & PR STA. 0+325		NE
Project No. 133560220	Scale 1:500H 0 5 1:50V 0 0.5	15 25r 1.5 2.5r
Drawing No.	Sheet	Revision
C-204	2 of 3	D



CRNGEN RD STR	
<u>KEY MAP</u> N.T.S.	
N.T.S. NOTE: LIDAR HAS BEEN USED TO SUPPLEMENT THE TOPOGRAPHICAL AND ILLUSTRATE EXTERNAL	
SITE DRAINAGE PATTERN. CONTRACTOR IS RESPONSIBLE TO REVIEW ONSITE ELEVATIONS PRIOR TO COMMENCEMENT OF ANY WORK ONSITE AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER OF RECORD	
THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE STORM WATER MANAGEMENT PLAN DATED DECEMBER 15, 2017.	
FOR ACCESS ROAD TYPICAL CROSS SECTION PLEASE REFER TO DRAWING C-500	
REFER TO ELECTRICAL DRAWING E241-SHEET 1 FOR FINAL LOCATIONS OF TRNECHING	

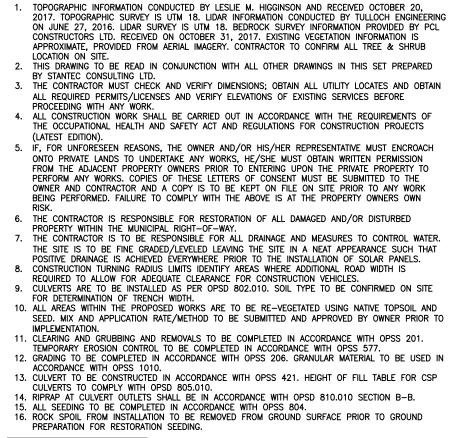




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Legend		
PROPOSED		<u>EXISTING</u>
• 185.19	ELEVATION	● 185.19(EX)
	SWALE	
	TOPOGRAPHIC SURVEY CONTOUR	
	LIDAR CONTOUR	184.5
~ × × ×	FENCE	~~ × ×
2.0%	GRADE	
	SLOPE (3:1 UNLESS NOTED OTHERWISE)	
<u> </u>	HARDENED SURFACE	
_	CULVERT	
	AC CABLE TRENCH	
	DC CABLE TRENCH	
	POTENTIAL EXPOSED ROCK LOCATIONS	
	PROPOSED FILL AREA	
	ROCK SPREADER SWALE	:

D	RE-ISSUED FOR TENDER	DRR	DS	17.12.18
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DRR 17.10.25

Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal

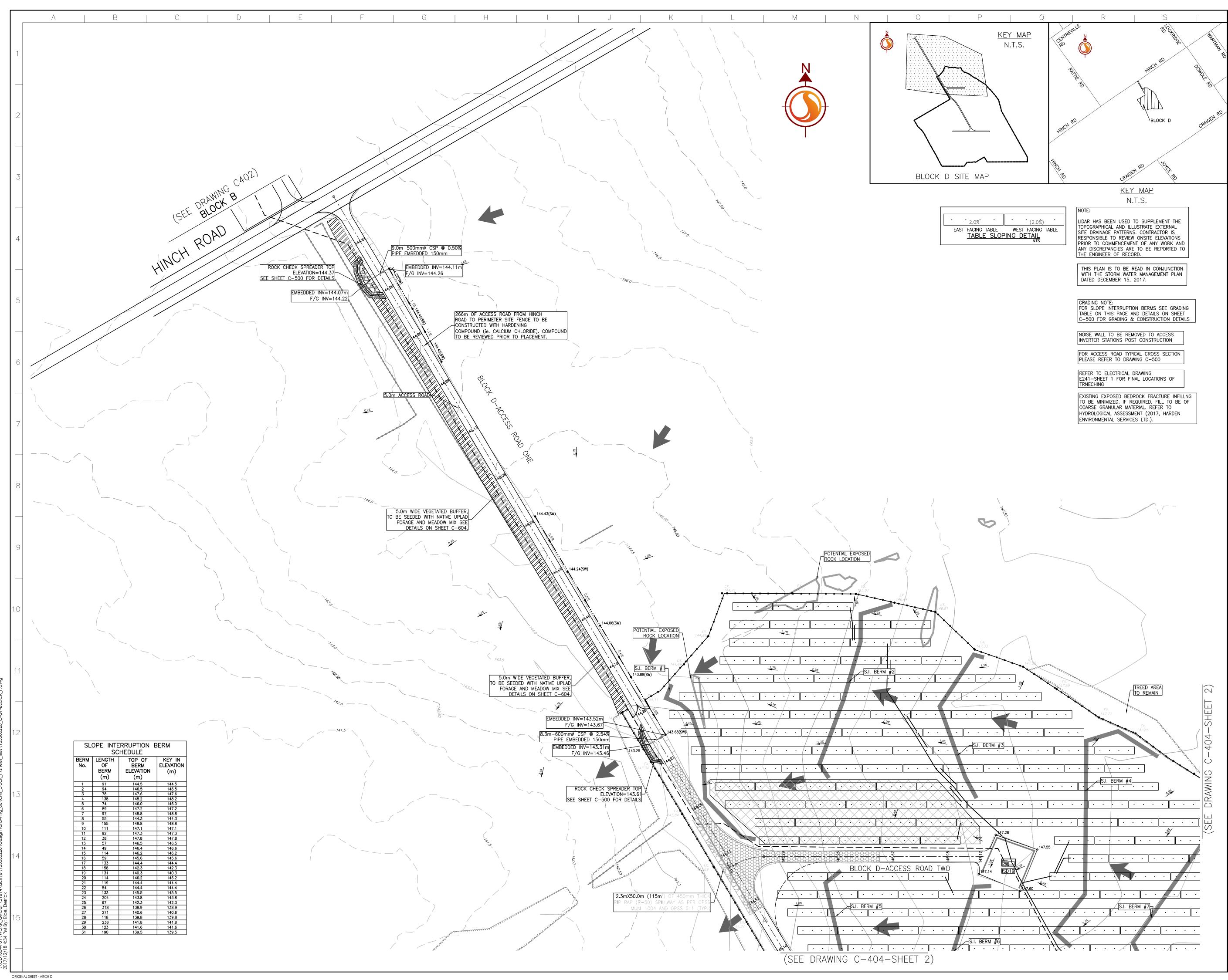
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Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Title BLOCK D ACCESS ROAD TWO & THREE PLAN & PROFILE

Project No. 133560220	Scale 1:500H 0 5 1:50V 0 0.5	15 25m
Drawing No.	Sheet	Revision
C-204	3 of 3	D







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Legend	

OPOSED		<u>EXISTING</u>
• 185.19	ELEVATION	• 185.19(EX)
	SWALE	
	TOPOGRAPHIC SURVEY CONTOUR	
	LIDAR CONTOUR	
	FENCE	
	OVERLAND FLOW DIRECTION	ON
2.0%	GRADE	
	SLOPE (3:1 UNLESS NOTED OTHERWISE)	
<u> </u>	HARDENED SURFACE	
	CULVERT	
[]]]]]]]]	PROPOSED FILL AREA	A
	AC CABLE TRENCH	
	DC CABLE TRENCH	
	POTENTIAL EXPOSED ROCK LOCATIONS	
	SLOPE INTERRUPTION (SEE DETAIL ON SHEI	
	TEMPORARY LAYDOWN DETERMINED ON SITE)	AREA (MATERIAL TO BE
	10m SETBACK LIMIT	NO TOUCH ZONE
	GRASSED WATERWAY (DETAILS)	SEE SHEET C-500 FOR
	П	DD DC 17

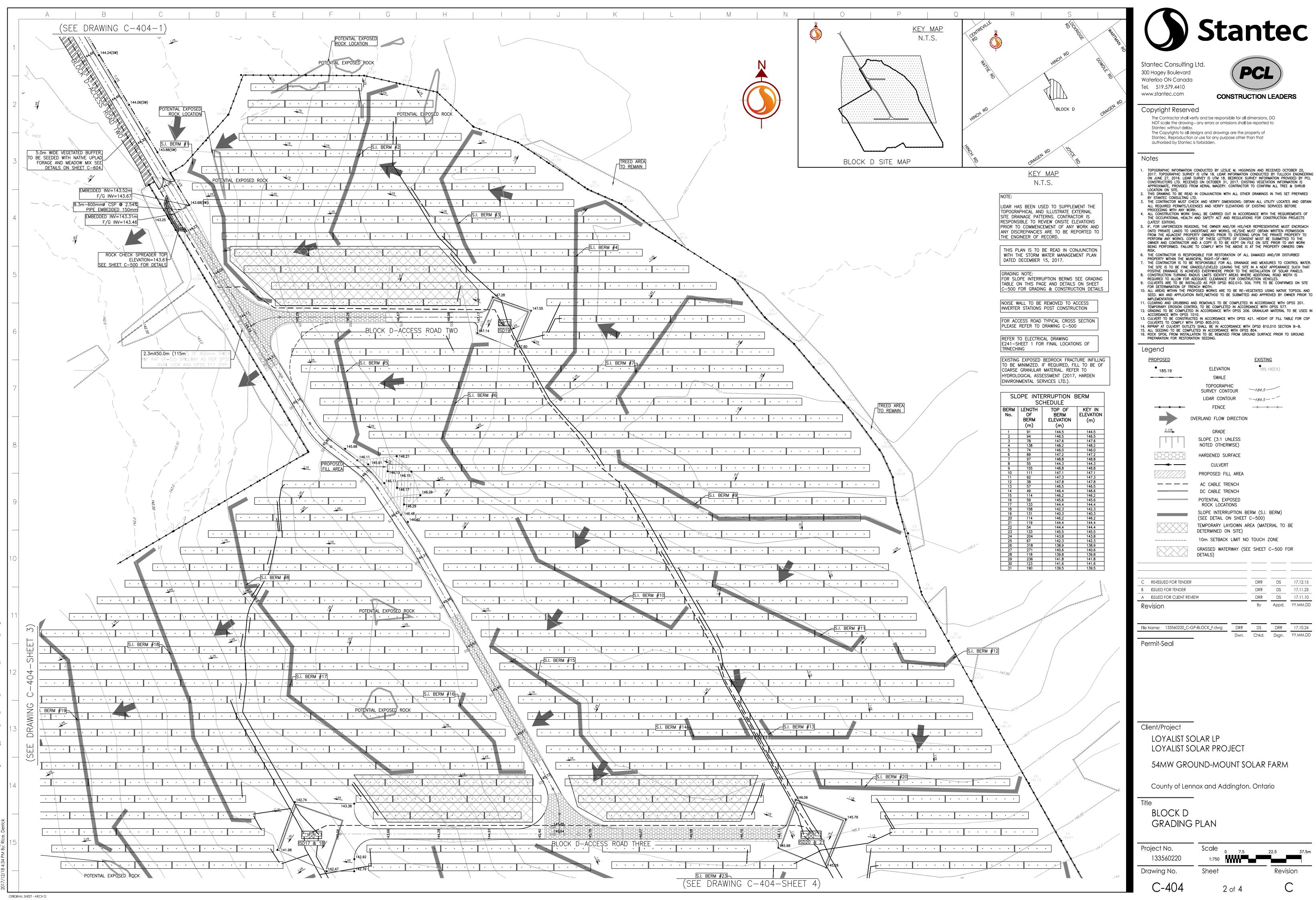
C RE-ISSUED FOR TENDER	DRR	DS	17.12.15
B ISSUED FOR TENDER	DRR	DS	17.11.23
A ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
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Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

BLOCK D GRADING	PLAN			
Project No.	Scale	0 7.5	22.5	37.5m
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Drawing No.	Sheet		Rev	ision
C-404		1 of 4		С



- 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 PLL

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	FENCE →	
	OVERLAND FLOW DIRECTION	
2.0%	GRADE	
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62626253	HARDENED SURFACE	
—–	CULVERT	
	PROPOSED FILL AREA	
	AC CABLE TRENCH DC CABLE TRENCH	
	POTENTIAL EXPOSED ROCK LOCATIONS	
	SLOPE INTERRUPTION BERM (SEE DETAIL ON SHEET C–5	
	TEMPORARY LAYDOWN AREA DETERMINED ON SITE)	(MA
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— —	CULVERT	
	PROPOSED FILL AREA	
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	POTENTIAL EXPOSED ROCK LOCATIONS	
	SLOPE INTERRUPTION B (SEE DETAIL ON SHEET	
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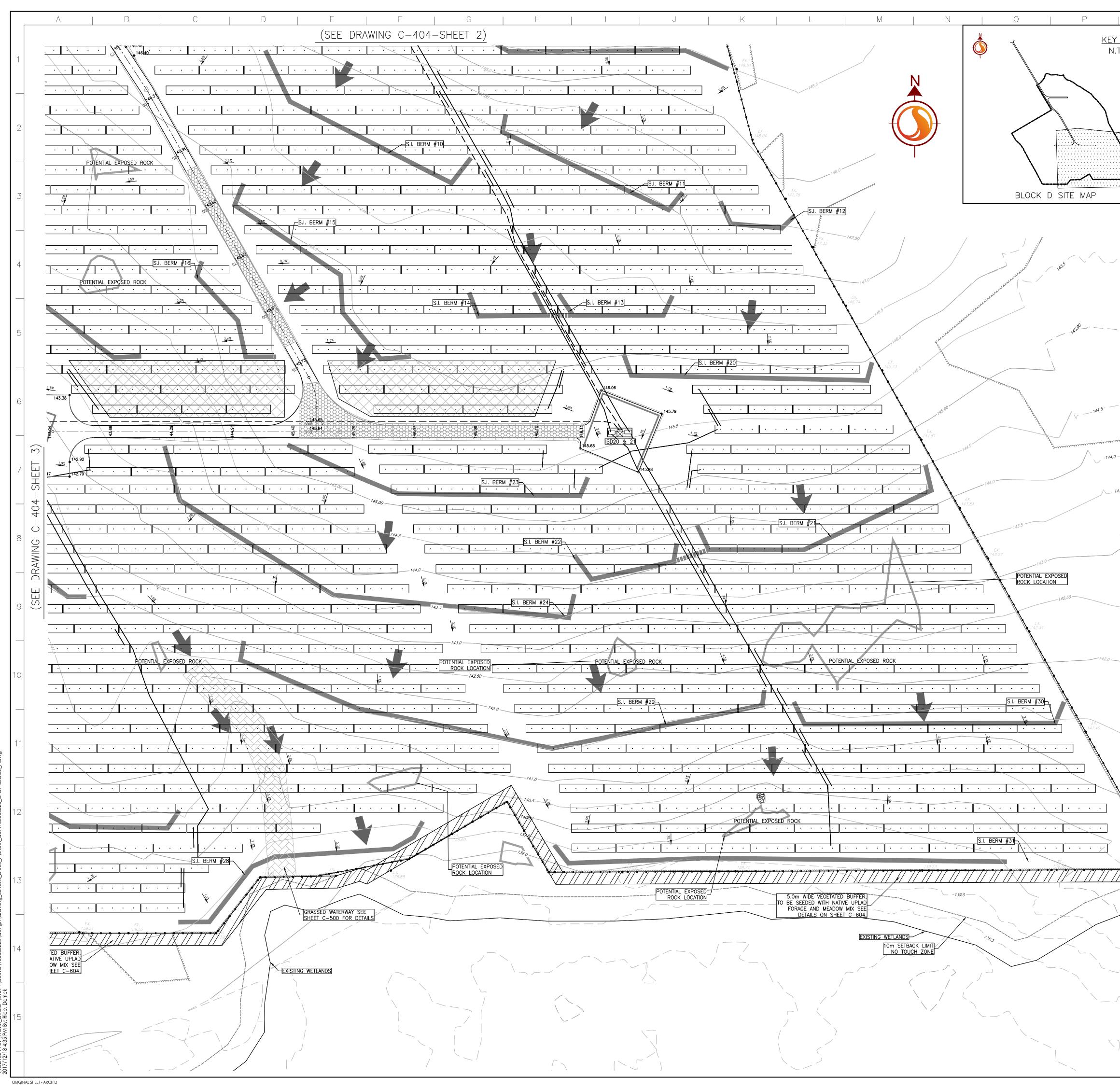
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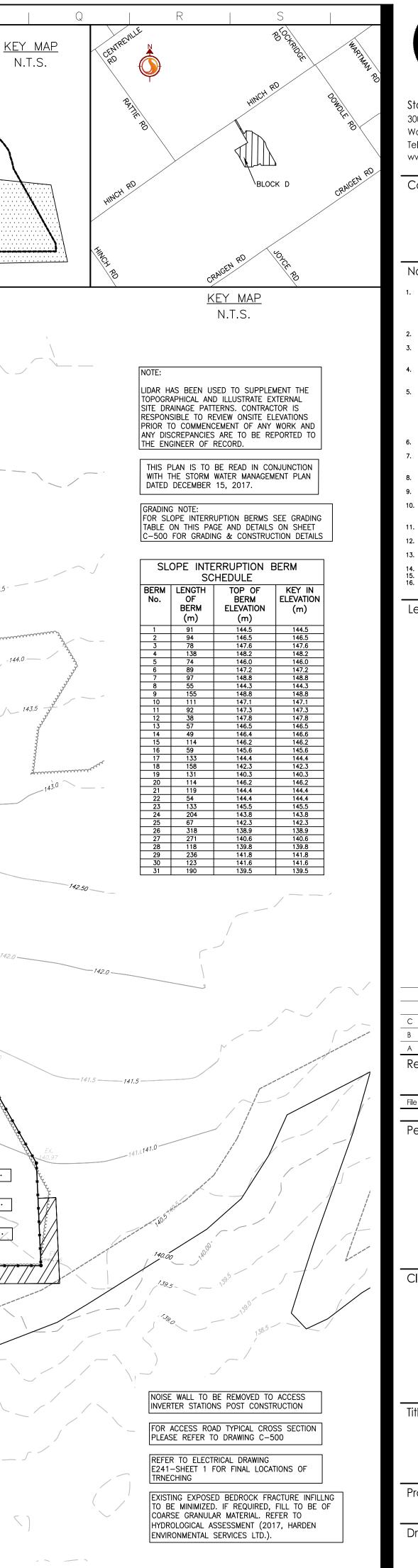
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Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

BLOCK D GRADING	PLAN	
Project No.	Scale 0 7.5	22.5 37.5m
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Drawing No.	Sheet	Revision
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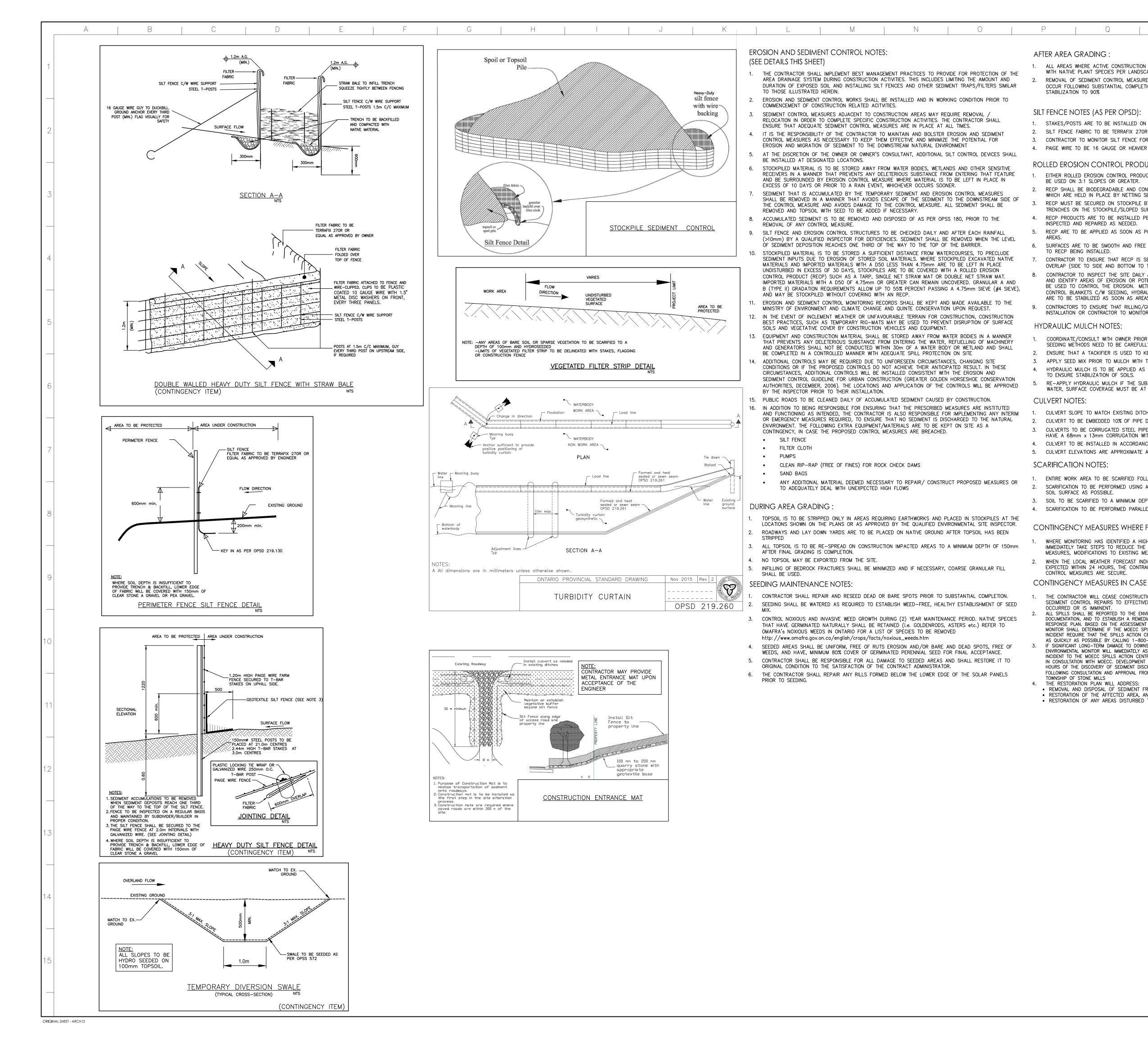
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County of Lennox and Addington, Ontario

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Project No.	Scale	0 7.5	22.5	37.5
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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 STABILIZATION TO 90%

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

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.

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.

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:

1. 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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E. UPDATED DETAILS	MALM	DS	17.12.15
D. UPDATED ESC NOTES	DRR	DS	17.11.30
C. UPDATED ESC NOTES	DRR	DS	17.11.23
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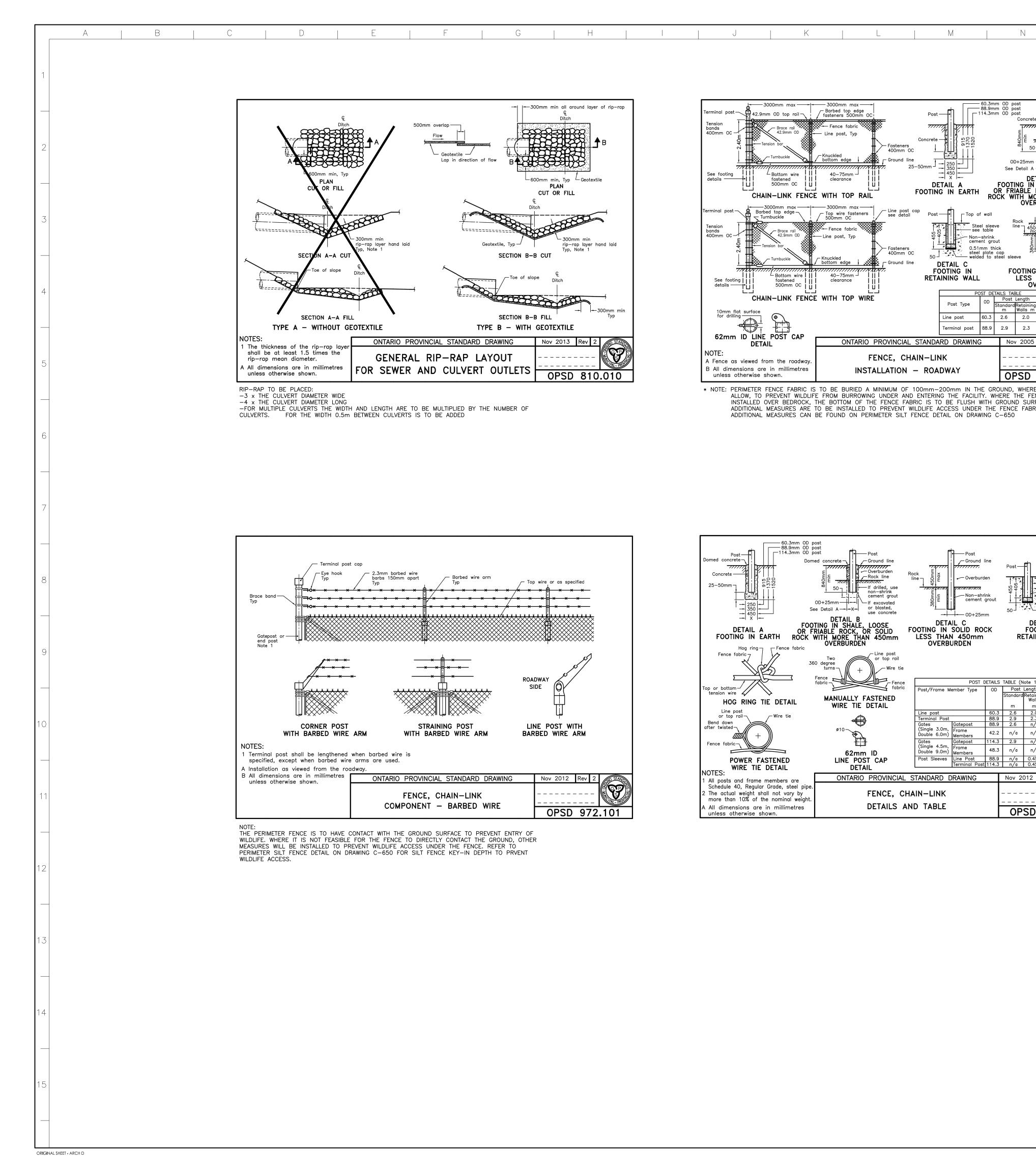
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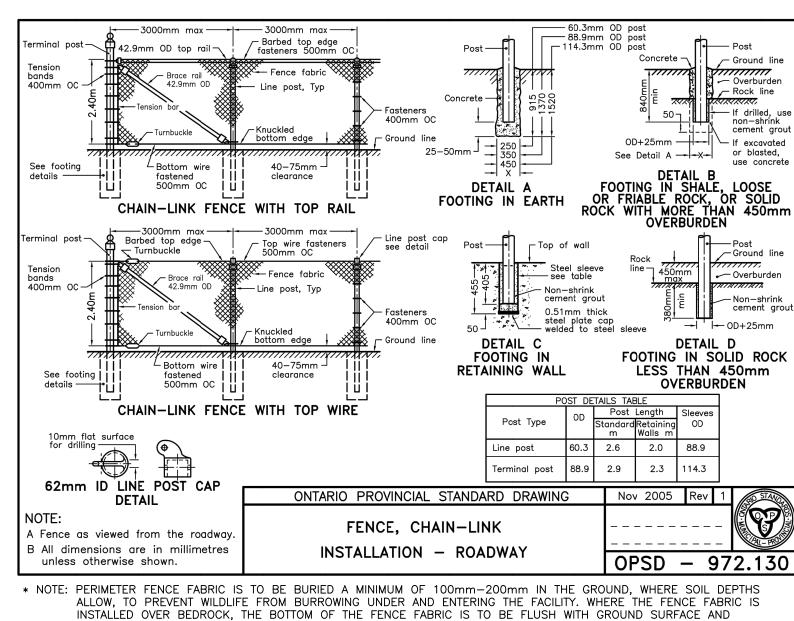
54MW GROUND-MOUNT SOLAR FARM

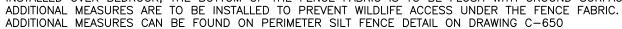
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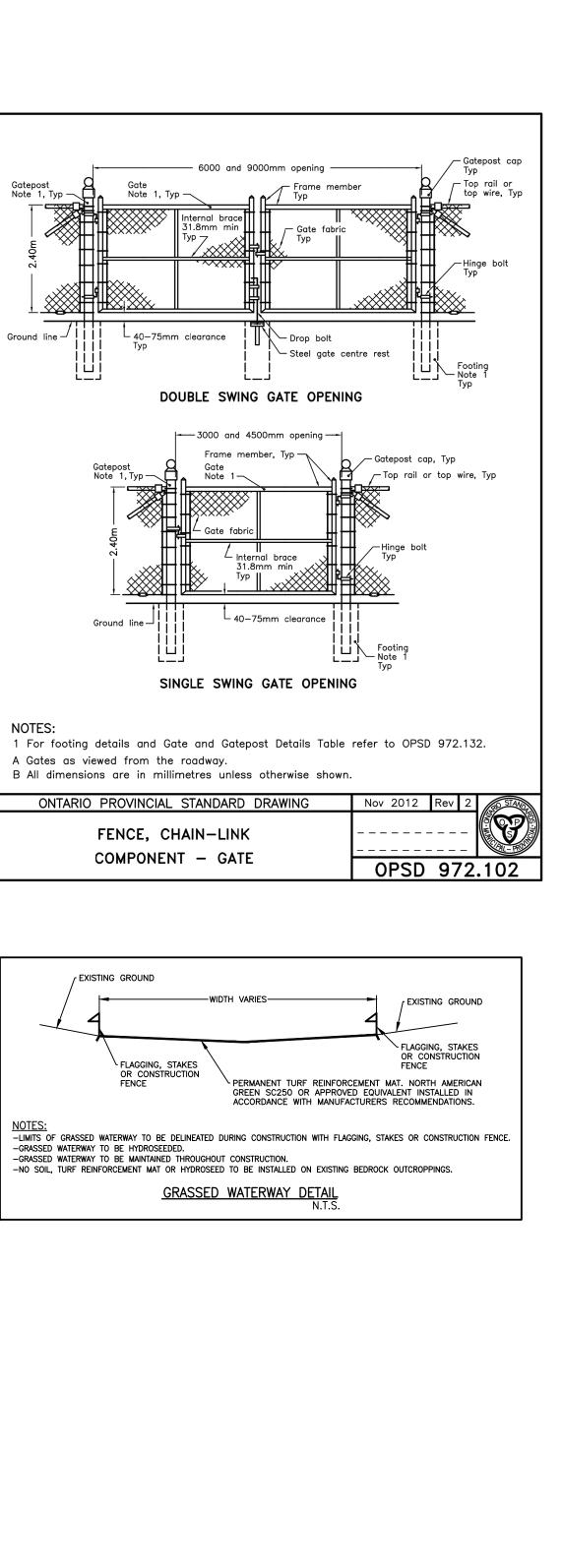
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SEDIMENTATION AND EROSION CONTROLS DETAILS Scale Project No. AS NOTED 133560220 Drawing No. Sheet Revision C-650 1 of 1



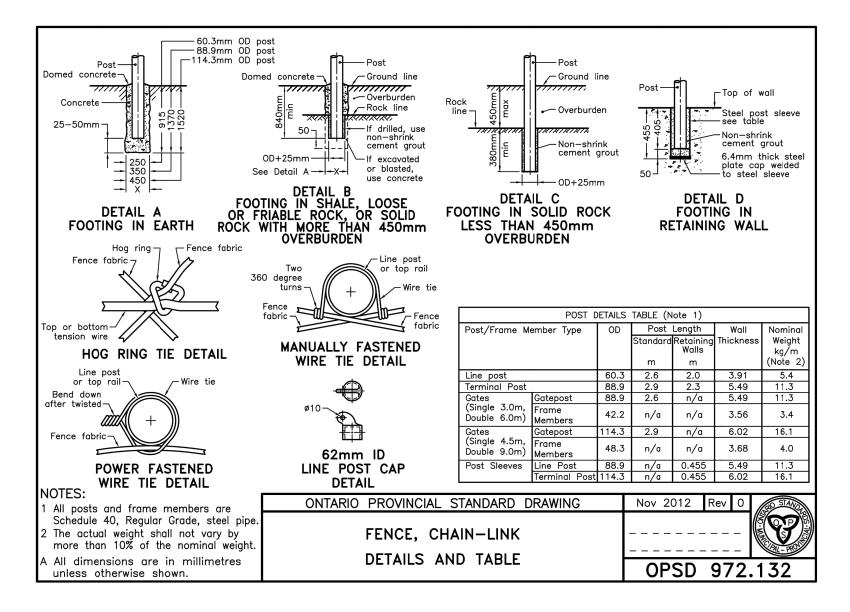


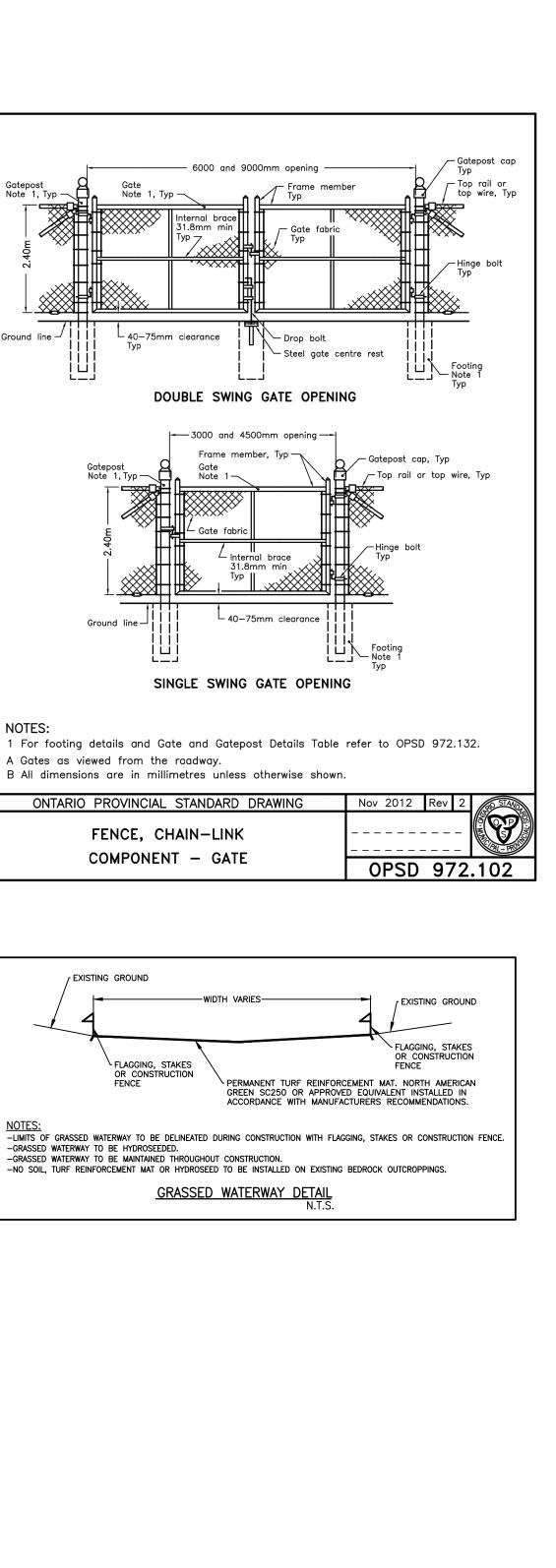




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- LEGAL PLAN OF SURVEY BY CALLON DIETZ INC. MARCH 6, 2017. EPTCON, (REV. A) SEPTEMBER THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED
- BY STANTEC CONSULTING LTD. THE CONTRACTOR MUST CHECK AND VERIFY DIMENSIONS; OBTAIN ALL UTILITY LOCATES AND OBTAIN
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- PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER.
- . 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. D. CULVERTS ARE TO BE INSTALLED AS PER OPSD 802.010. SOIL TYPE TO BE CONFIRMED ON SITE FOR DETERMINATION OF TRENCH WIDTH. 1. 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
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17.12.15
17.11.30
17.11.23
17.11.23
17.10.31
Y.MM.DD

File Name: 133560220_C-DT.dwg

Permit-Seal

PRELIMINARY NOT FOR CONSTRUCTION

DRR

DRR DS DRR 17.10.18

Dwn. Chkd. Dsgn. YY.MM.DD

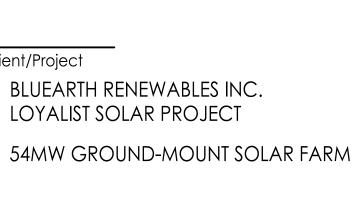
Client/Project

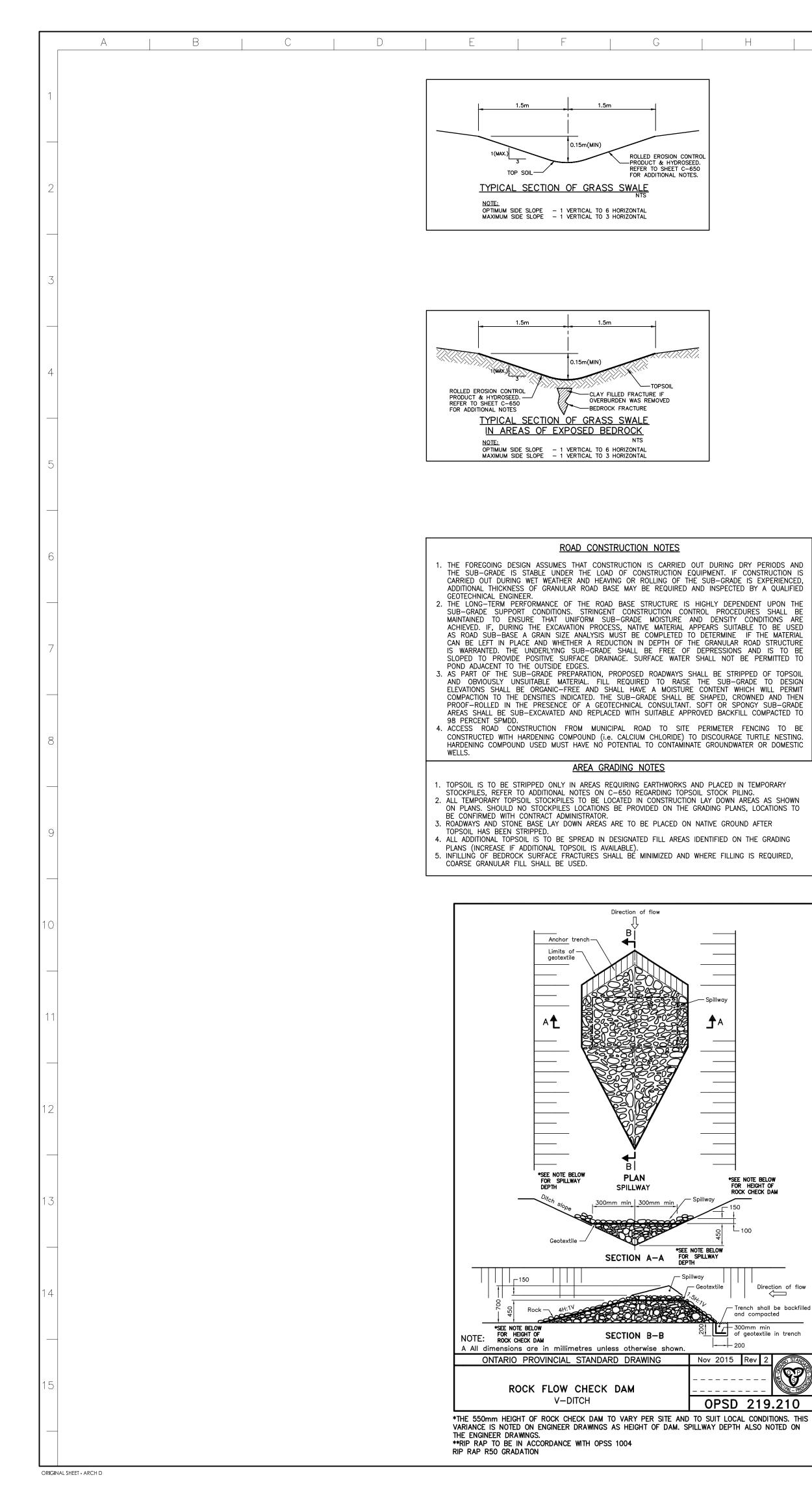
BLUEARTH RENEWABLES INC.

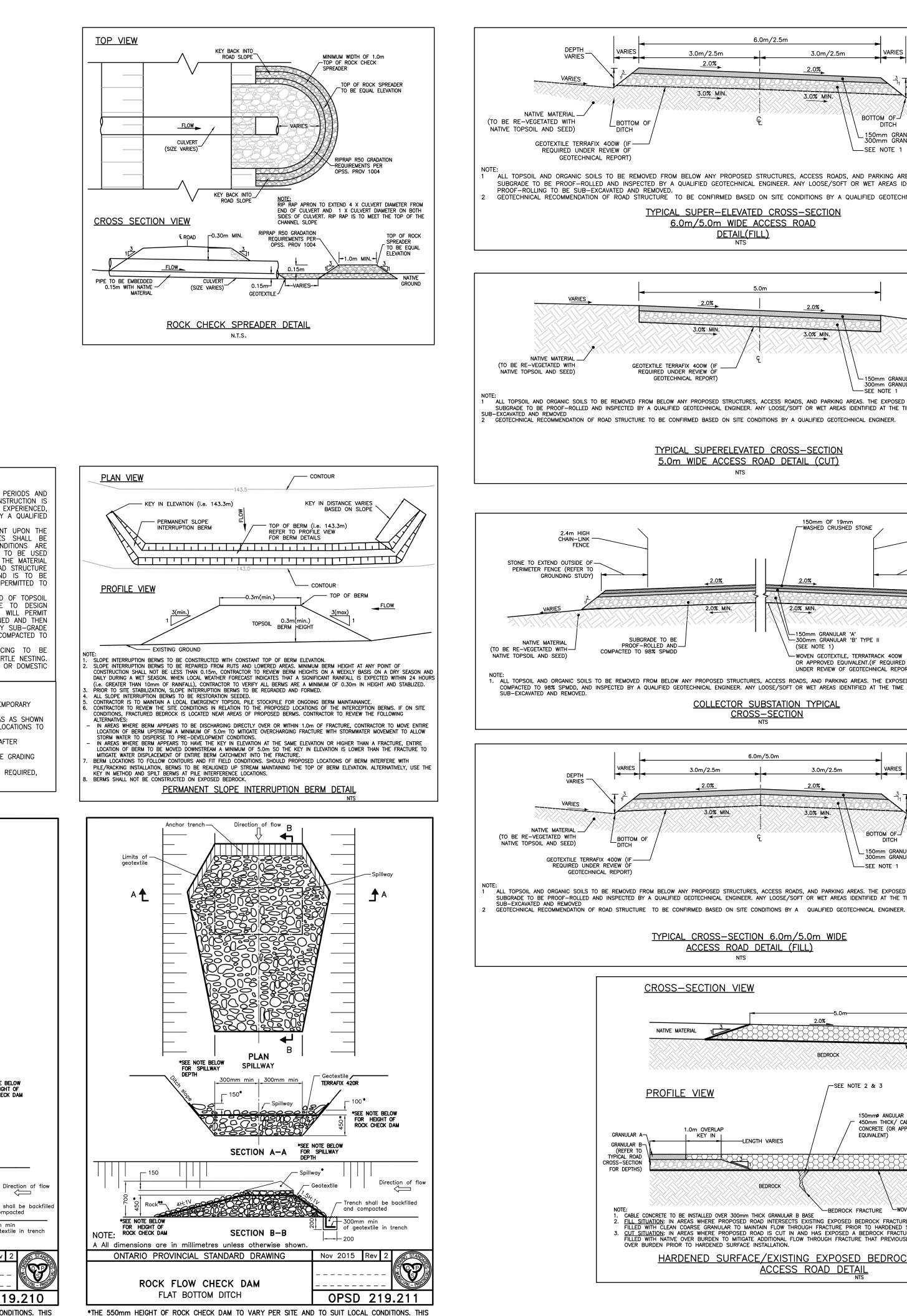
County of Lennox and Addington, Ontario

Title GENERAL DETAILS AND NOTES

Project No.	Scale	
133560220	AS NOTED	
Drawing No.	Sheet	Revisic
C-500	1 of 2	Е



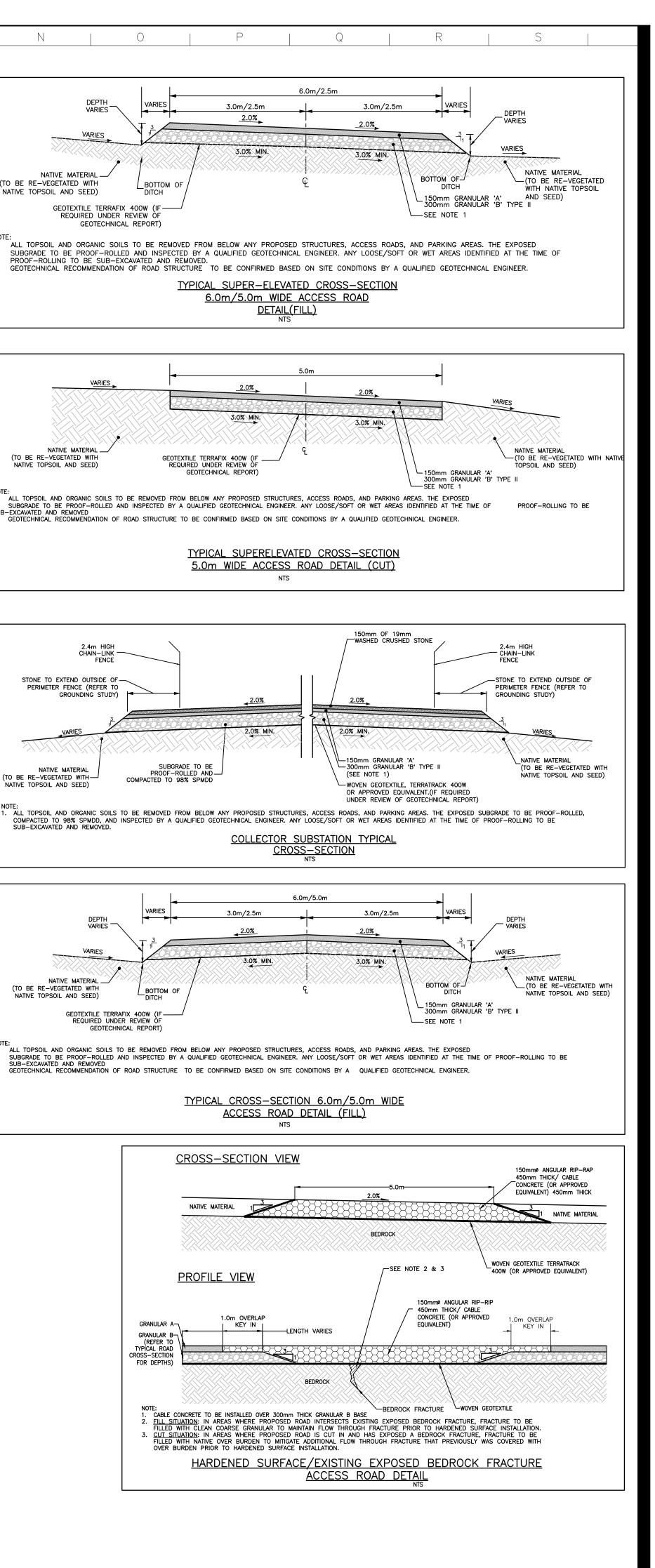




VARIANCE IS NOTED ON ENGINEER DRAWINGS AS HEIGHT OF DAM. SPILLWAY DEPTH ALSO NOTED ON THE ENGINEER DRAWINGS. **RIP RAP TO BE IN ACCORDANCE WITH OPSS 1004 RIP RAP R50 GRADATION

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Stantec Consulting Ltd. 300 Hagey Boulevard Waterloo ON Canada Tel. 519.579.4410 www.stantec.com



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Ε.	REVISED NOTES AND DETAILS	MALM	DS	17.12.15
D.	REVISED NOTES AND DETAILS	DRR	DS	17.11.30
С.	REVISED NOTES AND DETAILS	KDB	DS	17.11.23
В.	ISSUED FOR TENDER	DRR	DS	17.11.23
Α.	ISSUED FOR CLIENT REVIEW	MALM	DS	17.10.31
Re	vision	Ву	Appd.	YY.MM.DD

File Name: 133560220_C-DT.dwg DRR DS DRR 17.10.18 _____ Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal

> PRELIMINARY NOT FOR CONSTRUCTION

Client/Project

BLUEARTH RENEWABLES INC.

LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

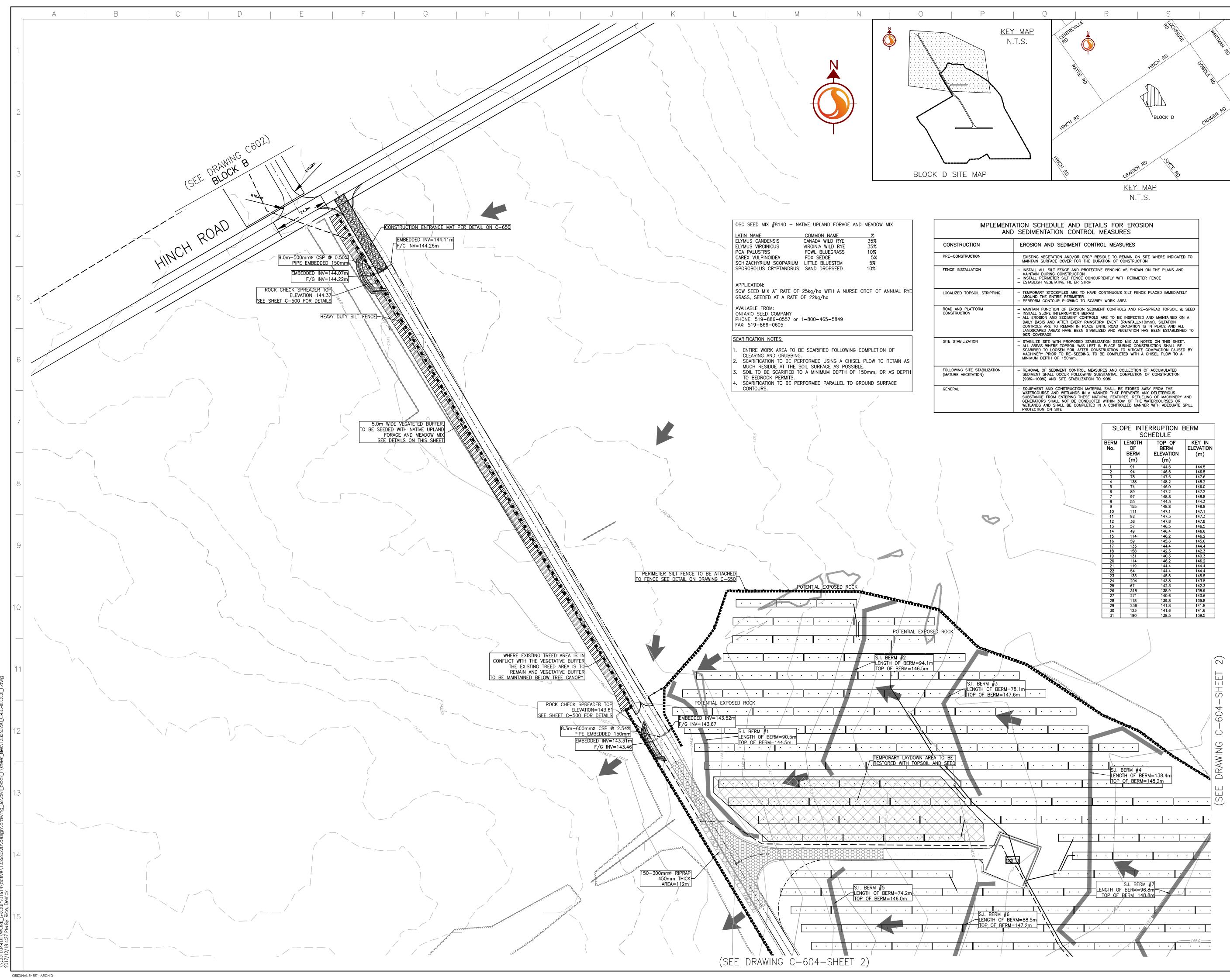
County of Lennox and Addington, Ontario

Title GENERAL DETAILS AND NOTES

C-500

Project No. Sco 133560220 Drawing No.

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2 of 2	E



	ATION SCHEDULE AND DETAILS FOR EROSION SEDIMENTATION CONTROL MEASURES
	EROSION AND SEDIMENT CONTROL MEASURES
	 EXISTING VEGETATION AND/OR CROP RESIDUE TO REMAIN ON SITE WHERE INDICATED TO MAINTAIN SURFACE COVER FOR THE DURATION OF CONSTRUCTION
	 INSTALL ALL SILT FENCE AND PROTECTIVE FENCING AS SHOWN ON THE PLANS AND MAINTAIN DURING CONSTRUCTION INSTALL PERIMETER SILT FENCE CONCURRENTLY WITH PERIMETER FENCE ESTABLISH VEGETATIVE FILTER STRIP
G	 TEMPORARY STOCKPILES ARE TO HAVE CONTINUOUS SILT FENCE PLACED IMMEDIATELY AROUND THE ENTIRE PERIMETER PERFORM CONTOUR PLOWING TO SCARIFY WORK AREA
	 MAINTAIN FUNCTION OF EROSION SEDIMENT CONTROLS AND RE-SPREAD TOPSOIL & SEED INSTALL SLOPE INTERRUPTION BERMS ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS AND AFTER EVERY RAINSTORM EVENT (RAINFALL>10mm). SILTATION CONTROLS ARE TO REMAIN IN PLACE UNTIL ROAD GRADATION IS IN PLACE AND ALL LANDSCAPED AREAS HAVE BEEN STABILIZED AND VEGETATION HAS BEEN ESTABLISHED TO 90% COVERAGE
	 STABILIZE SITE WITH PROPOSED STABILIZATION SEED MIX AS NOTED ON THIS SHEET. ALL AREAS WHERE TOPSOIL WAS LEFT IN PLACE DURING CONSTRUCTION SHALL BE SCARIFIED TO LOOSEN SOIL AFTER CONSTRUCTION TO MITIGATE COMPACTION CAUSED BY MACHINERY PRIOR TO RE-SEEDING. TO BE COMPLETED WITH A CHISEL PLOW TO A MINIMUM DEPTH OF 150mm.
N	 REMOVAL OF SEDIMENT CONTROL MEASURES AND COLLECTION OF ACCUMULATED SEDIMENT SHALL OCCUR FOLLOWING SUBSTANTIAL COMPLETION OF CONSTRUCTION (90%-100%) AND SITE STABILIZATION TO 90%
	– EQUIPMENT AND CONSTRUCTION MATERIAL SHALL BE STORED AWAY FROM THE WATERCOURSE AND WETLANDS IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THESE NATURAL FEATURES. REFUELING OF MACHINERY AND GENERATORS SHALL NOT BE CONDUCTED WITHIN 30m OF THE WATERCOURSES OR WETLANDS AND SHALL BE COMPLETED IN A CONTROLLED MANNER WITH ADEQUATE SPILL PROTECTION ON SITE

SL		RRUPTION I	BERM
BERM No.	LENGTH OF	TOP OF BERM	KEY IN ELEVATION
	BERM (m)	ELEVATION (m)	(m)
	. ,		
1	91	144.5	144.5
2	94	146.5	146.5
3	78	147.6	147.6
4	138	148.2	148.2
5	74	146.0	146.0
6	89	147.2	147.2
7	97	148.8	148.8
8	55	144.3	144.3
9	155	148.8	148.8
10	111	147.1	147.1
11	92	147.3	147.3
12	38	147.8	147.8
13	57	146.5	146.5
14	49	146.4	146.6
15	114	146.2	146.2
16	59	145.6	145.6
17	133	144.4	144.4
18	158	142.3	142.3
19	131	140.3	140.3
20	114	146.2	146.2
21	119	144.4	144.4
22	54	144.4	144.4
23	133	145.5	145.5
24	204	143.8	143.8
25	67	142.3	142.3
26	318	138.9	138.9
27	271	140.6	140.6
28	118	139.8	139.8
29	236	141.8	141.8
30	123	141.6	141.6





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- 12. GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS 206. GRANULAR MATERIAL TO BE USED IN ACCORDANCE WITH OPSS 1010.
 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 COMPLETED IN ACCORDANCE WITH OPSS 804.
 16. ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.

Legend

<u>PROPOSED</u>	EXISTING
* * * *	PROPERTY LINE FENCE
	TOPOGRAPHIC SURVEY295.5 CONTOUR
	LIDAR CONTOUR
	PERIMETER SILT FENCE (SEE DETAILS ON SHEET C–650) HEAVY DUTY SILT FENCE (SEE DETAILS ON SHEET C–650) CULVERT
	ROCK CHECK DAMS (SEE DETAILS ON SHEET C-650)
	OVERLAND FLOW DIRECTION
	SLOPE INTERRUPTION BERM (S.I. BERMS) (SEE DETAIL ON SHEET C–500)
//////	5.0M WIDE VEGETATIVE BUFFER NO TOUCH ZONE
	AC CABLE TRENCH
	DC CABLE TRENCH
	POTENTIAL EXPOSED ROCK LOCATIONS
	, ROCK CHECK SPREADER (SEE DETAIL ON SHEET C–500)
///////	PROPOSED FILL AREA
	10m SETBACK LIMIT NO TOUCH ZONE
RRRR	HARDENED SURFACE
	GRASSED WATERWAY (SEESHEET C–500 FOR DETAILS)

D	RE-ISSUED FOR TENDER	DRR	DS	17.12.18
С	RE-ISSUED FOR TENDER	DRR	DS	17.12.15
В	ISSUED FOR TENDER	DRR	DS	17.11.23
А	ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
Re	evision	Ву	Appd.	YY.MM.DD

File Name: 133560220_C-EC-BLOCK_F.dwg	DRR	DS	DRR	17.10.24
	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 Title

BLOCK D EROSION AND SEDIMENT CONTROL PLAN				
Project No. 133560220	Scale 0 1:750	7.5	22.5	37.5m
Drawing No.	Sheet		Revis	sion
C-604	1	of 4	[C



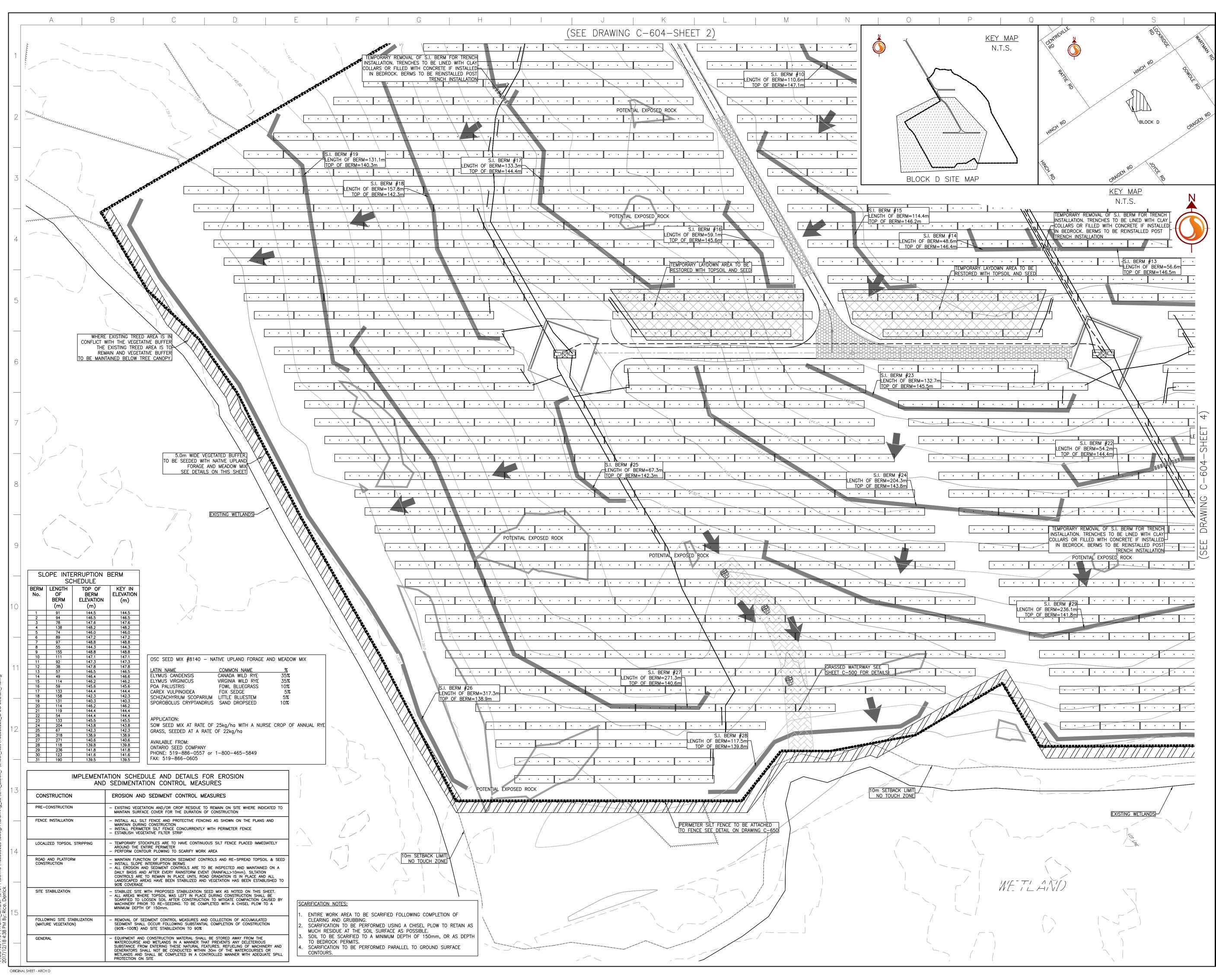
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PROPOSED	EXISTING
* * * *	PROPERTY LINE FENCE <u>* * * *</u> TOPOGRAPHIC SURVEY <u>295.5</u> CONTOUR
	LIDAR CONTOUR -295.5
	PERIMETER SILT FENCE (SEE DETAILS ON SHEET C–650) HEAVY DUTY SILT FENCE (SEE DETAILS ON SHEET C–650) CULVERT
	ROCK CHECK DAMS (SEE DETAILS ON SHEET C-650)
	OVERLAND FLOW DIRECTION
	SLOPE INTERRUPTION BERM (S.I. BERMS) (SEE DETAIL ON SHEET C–500)
// // // //	5.0M WIDE VEGETATIVE BUFFER NO TOUCH ZONE
	AC CABLE TRENCH DC CABLE TRENCH
	POTENTIAL EXPOSED ROCK LOCATIONS
	ROCK CHECK SPREADER (SEE DETAIL ON SHEET C—500)
///////////////////////////////////////	PROPOSED FILL AREA
	10m SETBACK LIMIT NO TOUCH ZONE
	HARDENED SURFACE GRASSED WATERWAY (SEESHEET C-500 FOR DETAILS)

D	RE-ISSUED FORTENDER	DRR	DS	17.12.18
С	RE-ISSUED FOR TENDER	DRR	DS	17.12.15
В	ISSUED FOR TENDER	DRR	DS	17.11.23
А	ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
Re	evision	Ву	Appd.	YY.MM.DE

File Name:	133560220_C-EC	C-BLOCK_F.dwg	DRR	DS	DRR	17.10.24
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BLOCK D					
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CONTROL	PLAN				
Project No.	Scale _{0 7.5}	22.5 37.5m			
133560220	1:750				
Drawing No.	Sheet	Revision			
C-604	2 of 4	D			







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Legend	
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	LIDAR CONTOUR
	PERIMETER SILT FENCE (SEE DETAILS ON SHEET C—650) HEAVY DUTY SILT FENCE (SEE DETAILS ON SHEET C—650) CULVERT
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	OVERLAND FLOW DIRECTION
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	AC CABLE TRENCH DC CABLE TRENCH
	POTENTIAL EXPOSED ROCK LOCATIONS
	ROCK CHECK SPREADER (SEE DETAIL ON SHEET $C-500$)
<i> </i>	PROPOSED FILL AREA
	10m SETBACK LIMIT NO TOUCH ZONE
	HARDENED SURFACE
	GRASSED WATERWAY (SEESHEET C–500 FOR DETAILS)

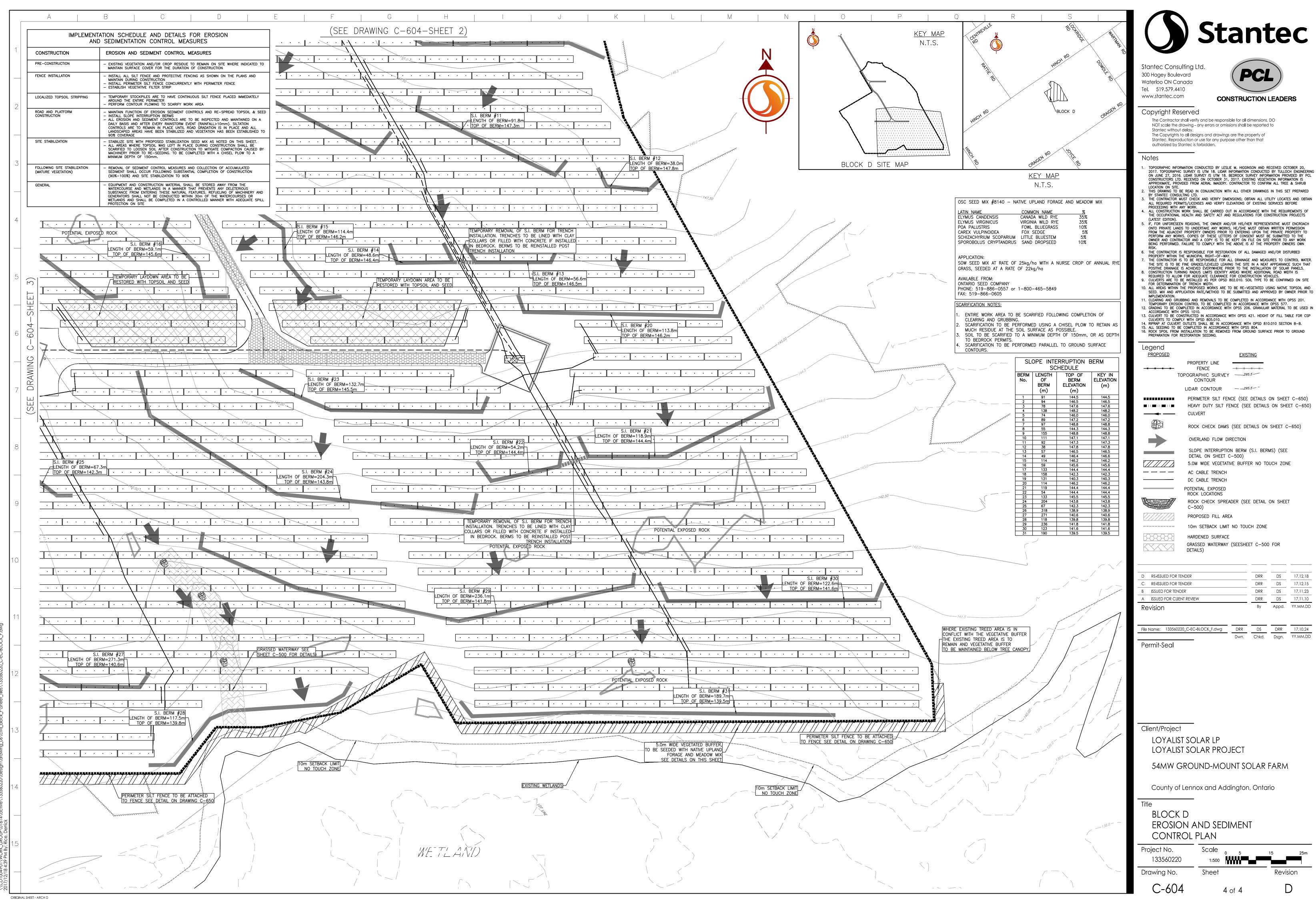
RE-ISSUED FOR TENDER	DRR	DS	17.12.18
RE-ISSUED FOR TENDER	DRR	DS	17.12.15
ISSUED FOR TENDER	DRR	DS	17.11.23
ISSUED FOR CLENT REVIEW	DRR	DS	17.11.10
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Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM County of Lennox and Addington, Ontario Title BLOCK D

CONTROL	PLAN	I	
Project No. 133560220	Scale 0 5 1:500	1	5 25m
Drawing No.	Sheet		Revision
C-604	3 of 4		D



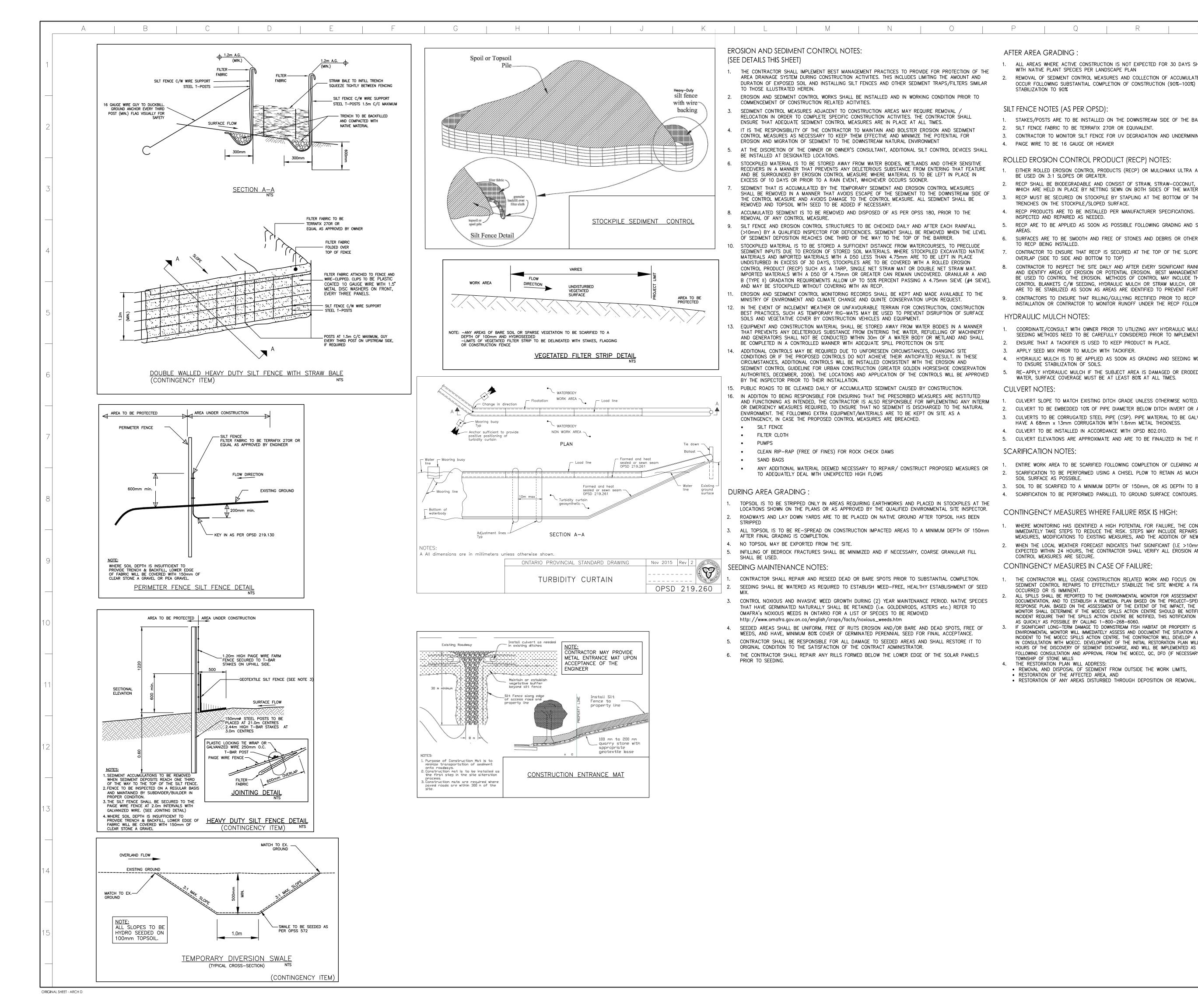
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egend	
<u>PROPOSED</u>	EXISTING
* * * *	PROPERTY LINE FENCE
	LIDAR CONTOUR
	PERIMETER SILT FENCE (SEE DETAILS ON SHEET C–650) HEAVY DUTY SILT FENCE (SEE DETAILS ON SHEET C–650) CULVERT
	ROCK CHECK DAMS (SEE DETAILS ON SHEET C-650)
	OVERLAND FLOW DIRECTION
<i>P</i>	SLOPE INTERRUPTION BERM (S.I. BERMS) (SEE DETAIL ON SHEET C–500)
//////	5.0M WIDE VEGETATIVE BUFFER NO TOUCH ZONE
	AC CABLE TRENCH
	DC CABLE TRENCH
	POTENTIAL EXPOSED ROCK LOCATIONS
	, ROCK CHECK SPREADER (SEE DETAIL ON SHEET C–500)
//////	PROPOSED FILL AREA
	10m SETBACK LIMIT NO TOUCH ZONE
FSFSFS	HARDENED SURFACE
	GRASSED WATERWAY (SEESHEET C—500 FOR DETAILS)

D	RE-ISSUED FOR TENDER	DRR	DS	17.12.18
С	RE-ISSUED FOR TENDER	DRR	DS	17.12.15
В	ISSUED FOR TENDER	DRR	DS	17.11.23
А	ISSUED FOR CLIENT REVIEW	DRR	DS	17.11.10
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File Name:	133560220_C-EC	BLOCK_F.dwg	DRR	DS	DRR	17.10.24
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BLOCK D	BLOCK D				
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CONTROL	PLAN				
Project No.	Scale ₀₅	15	25m		
133560220	1:500				
Drawing No.	Sheet	Revisi	on		
C-604	4 of 4	D)		



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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 STABILIZATION TO 90%

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

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.

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.

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.

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.

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:

1. 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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Notes

- LIDAR INFORMATION CONDUCTED BY TULLOCH ENGINEERING ON JUNE 27, 2016. LIDAR SURVEY IS
- LEGAL PLAN OF SURVEY BY CALLON DIETZ INC. MARCH 6, 2017. EPTCON, (REV. A) SEPTEMBER
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY STANTEC CONSULTING LTD. THE CONTRACTOR MUST CHECK AND VERIFY DIMENSIONS; OBTAIN ALL UTILITY LOCATES AND OBTAIN
- ALL REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING WITH ANY WORK
- ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS
- (LATEST EDITION). IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE NUST 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
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED ROPERTY 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. 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 SITI 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 MPLEMENTATION.
- CLEARING AND GRUBBING AND REMOVALS 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. RIPRAP SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B-B.

E. UPDATED DETAILS	MALM	DS	17.12.15
D. UPDATED ESC NOTES	DRR	DS	17.11.30
C. UPDATED ESC NOTES	DRR	DS	17.11.23
B. ISSUED FOR TENDER	DRR	DS	17.11.21
A. ISSUED FOR CLIENT REVIEW	DRR	DS	17.10.30
Revision	Ву	Appd.	YY.MM.DD

File Name: 133560220_C-DT-EC.dwg DRR DS DRR 17.10.18 Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project

BLUEARTH RENEWABLES INC. LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Title

SEDIMENTATION AND EROSION CONTROLS DETAILS Scale Project No. AS NOTED 133560220 Drawing No. Sheet Revision C-650 1 of 1