EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES TO CONFORM TO THE EROSION AND SEDIMENT CONTROL PLAN AND THE STORMWATER MANAGEMENT PLAN.
2. EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE DRAWINGS IS TO BE USED AS A MINIMUM. THE CONTRACTOR MUST MAKE THEIR OWN ASSESSMENT OF THE ENVIRONMENTAL CONTROLS AND MEASURES REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE RENEWABLE ENERGY APPROVAL COMPLETED FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
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4. SILT FENCE INSTALLATION MUST OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION, AS PER REA CONDITION H3(4).

CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED.
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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, PER OPSS 1801.
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CONSTRUCTION NOTES

1. ACCESS ROAD AREAS TO BE STRIPPED OF TOPSOIL WITHIN GRADING LIMITS. TOPSOIL TO BE WINDROWED ALONG ACCESS ROAD. PROVIDE WINDROW OPENINGS TO ENSURE POSITIVE DRAINAGE IS MAINTAINED WITHIN CONSTRUCTIBLE AREA AND APPLICABLE SILT FENCES.
2. PRIOR TO GRANULAR PLACEMENT, SUBGRADE TO BE PROOF–ROLLED AND WET/UNSTABLE AREAS REMOVED AND REPLACED WITH ADDITIONAL SUITABLE SUB–BASE MATERIAL, AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR DESIGNATE.
3. GRANULAR 'B' SUB–BASE THICKNESS TO BE ADJUSTED TO SUIT LOCAL CONDITIONS.
4. ENTRANCE SIDE SLOPES TO BE 3:1 UNLESS OTHERWISE NOTED ON PLAN DRAWINGS.
5. COMPACTION REQUIREMENTS:
   - SUBGRADE – 95% STANDARD PROCTOR DENSITY
   - GRANULARS – 98% STANDARD PROCTOR DENSITY
6. CLEARING AND GRUBBING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 201.
7. EARTH EXCAVATION/GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 206.
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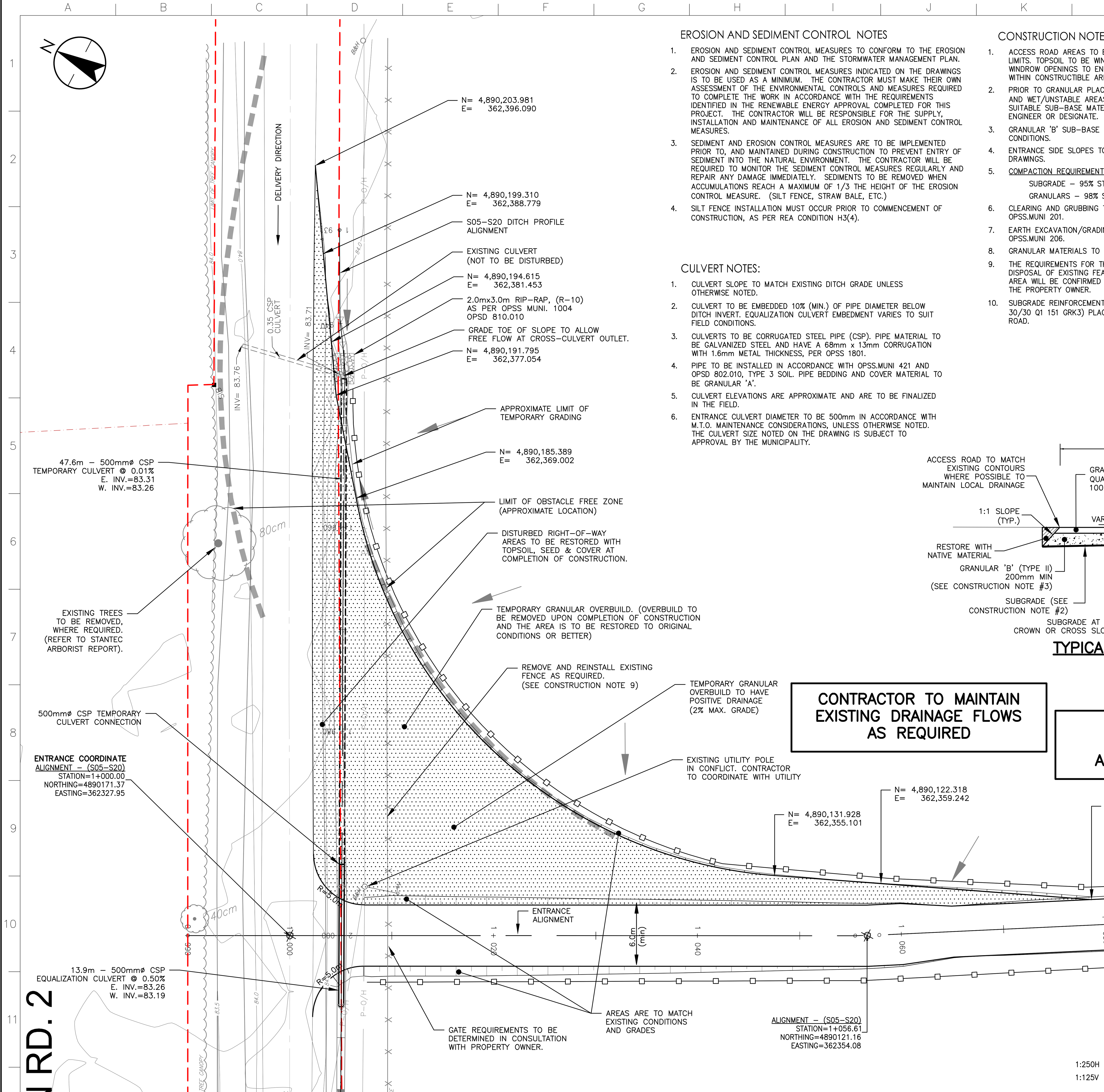
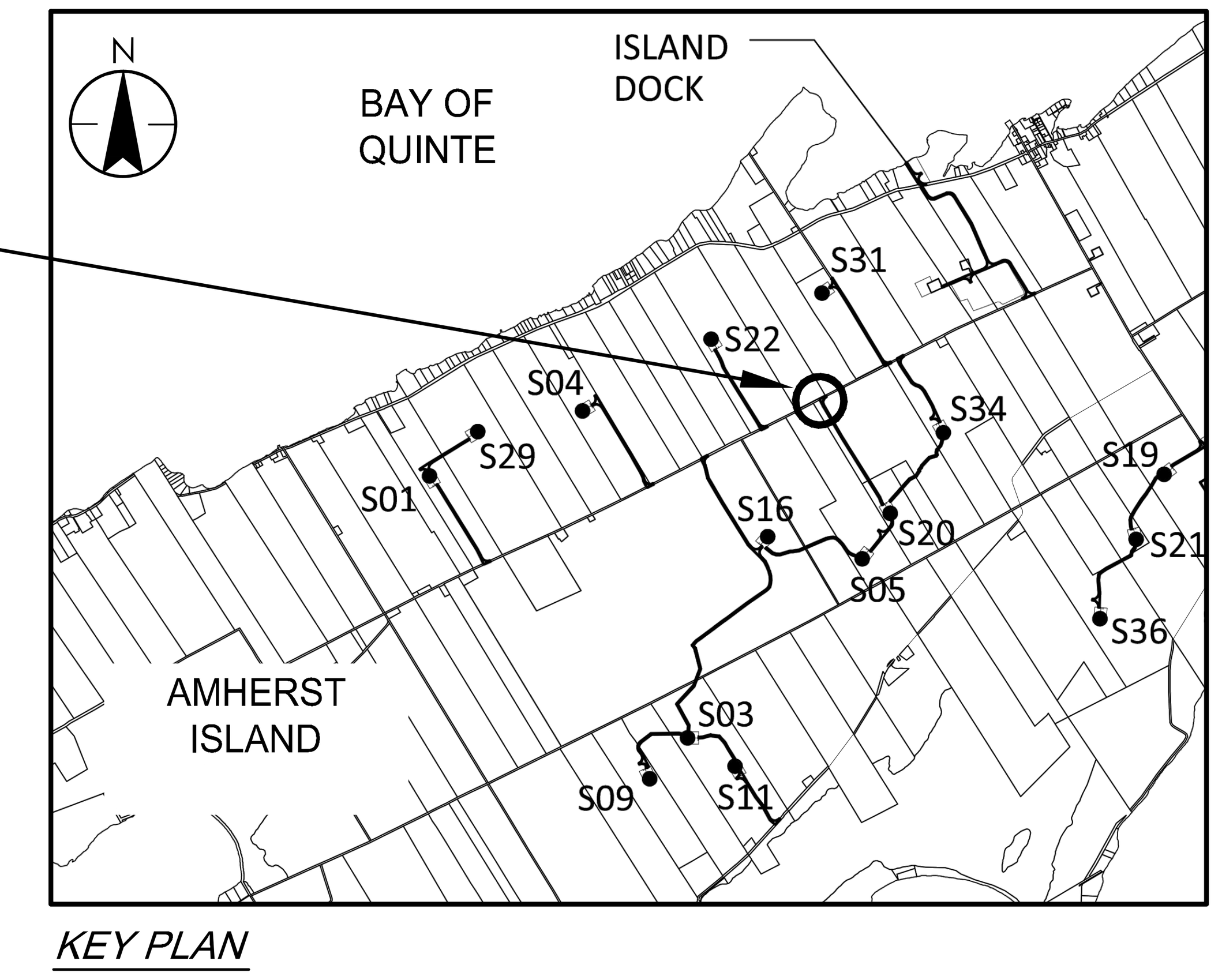
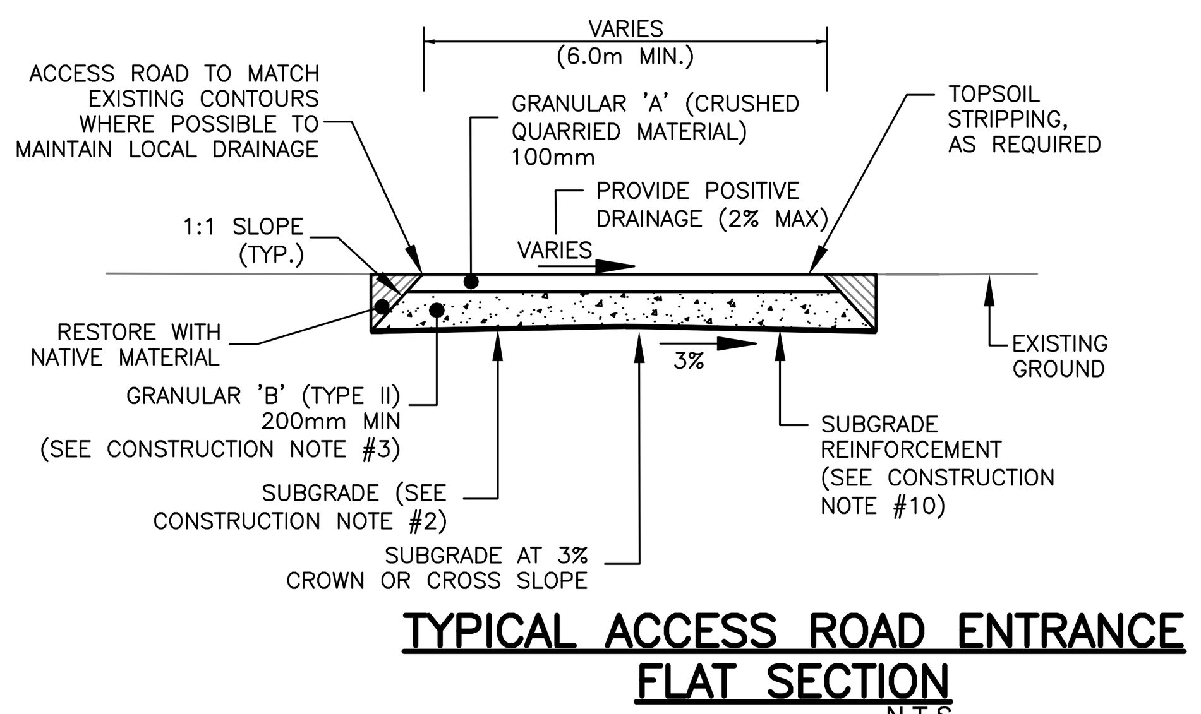
9. THE REQUIREMENTS FOR THE REMOVAL, REINSTALLATION AND/OR DISPOSAL OF EXISTING FEATURES IN CONFLICT WITH THE CONSTRUCTION AREA WILL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION WITH THE PROPERTY OWNER.
10. SUBGRADE REINFORCEMENT TO BE TERRAFIX COMBIGRID (PRODUCT 30/30 Q1 151 GRK3) PLACED ON SUBGRADE OVER ENTIRE ACCESS ROAD.



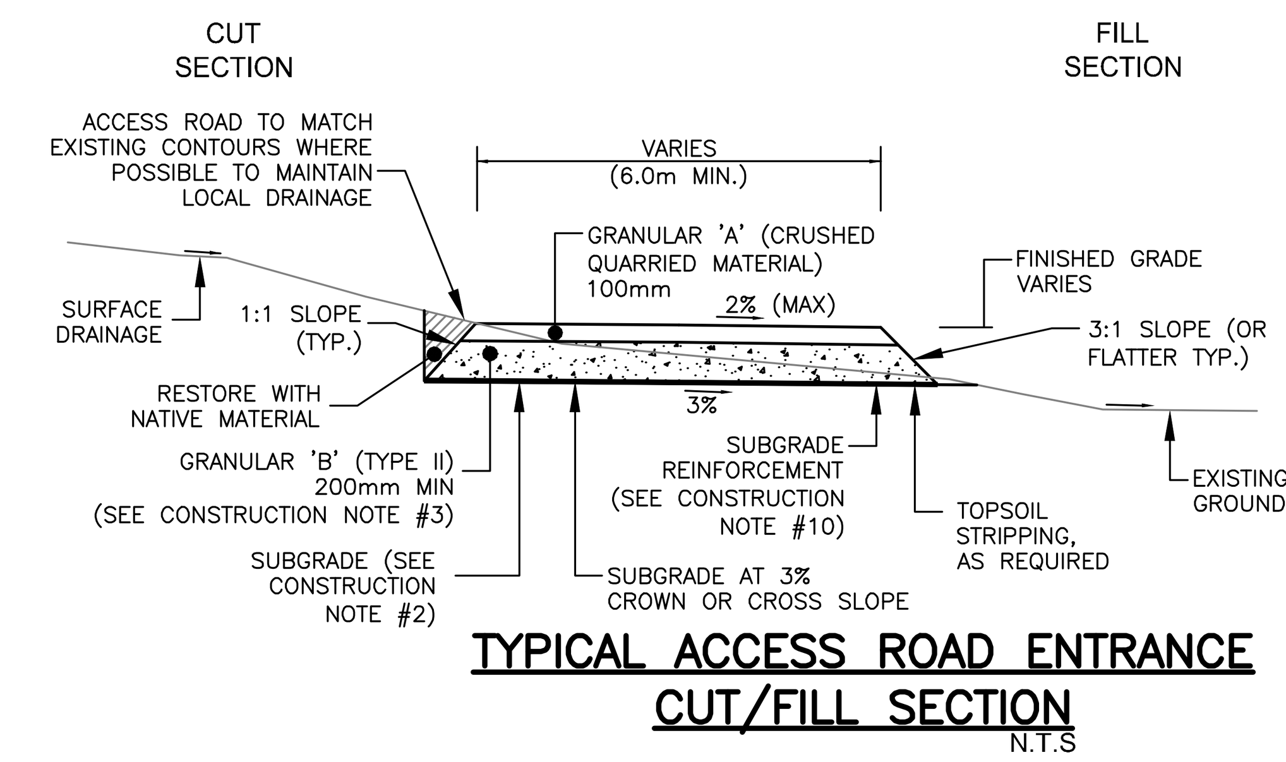
PLAN LOCATION



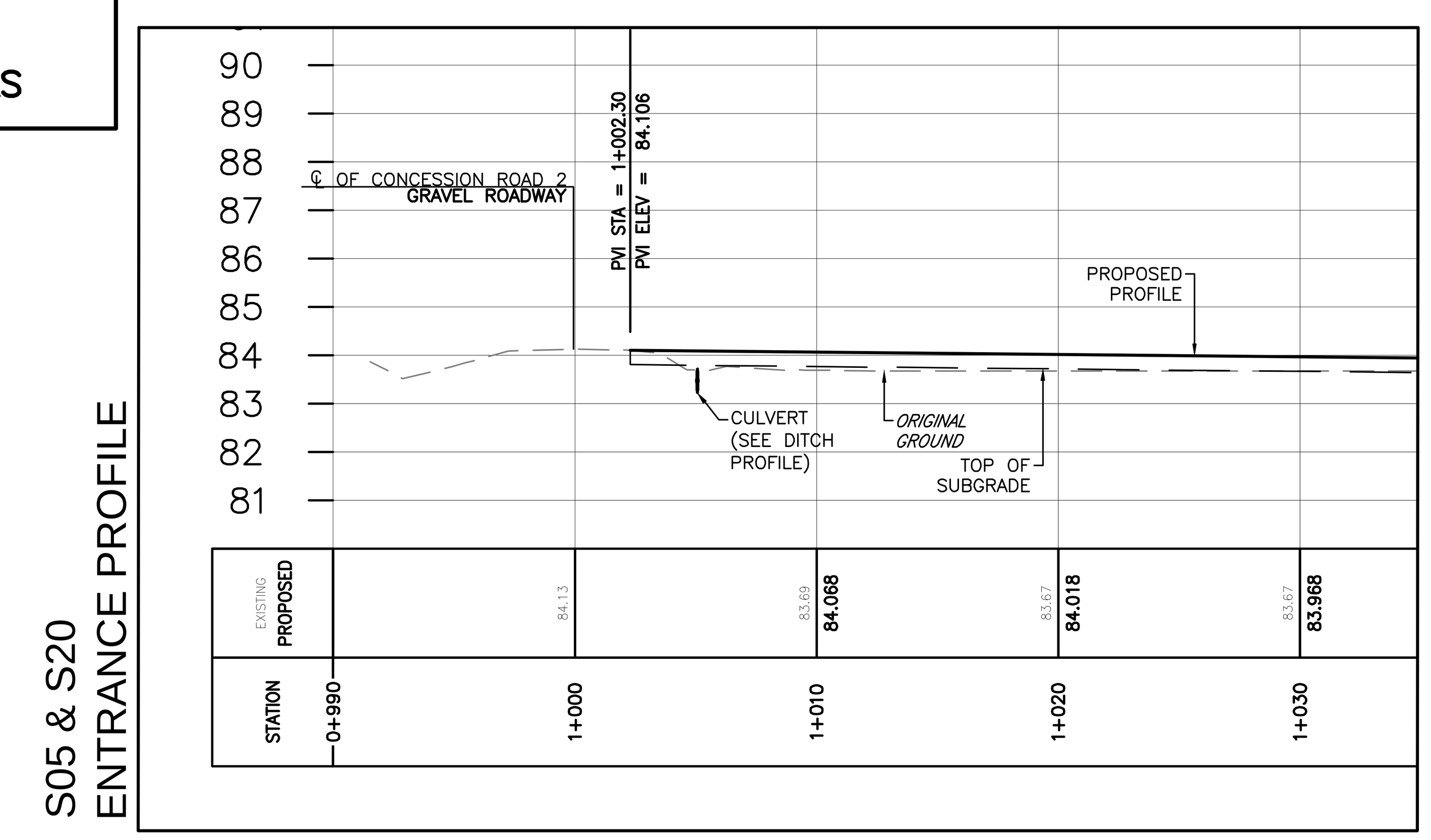
KEY PLAN
N.T.S



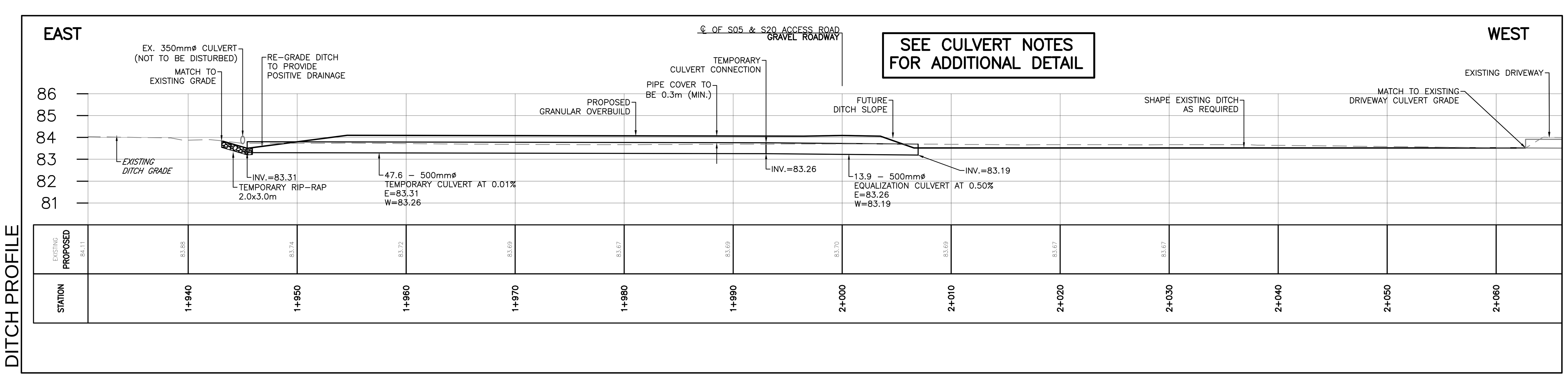
TYPICAL ACCESS ROAD ENTRANCE
FLAT SECTION
N.T.S



TYPICAL ACCESS ROAD ENTRANCE
CUT/FILL SECTION
N.T.S



PROFILES



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Legend

- EXISTING OVERLAND FLOW/DITCH DIRECTION
- PROPOSED DITCH FLOW
- EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
- EXISTING GROUND CONTOURS (FROM LIDAR MAPPING)
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- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

Revision	By	Appd.	YY.MM.DD
A PCS SUBMISSION	RCL	MPG	17.08.16

File Name: PCS C200-C215_133560100-Ents.dwg	RCL	MPG	RCL	17.08.15
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

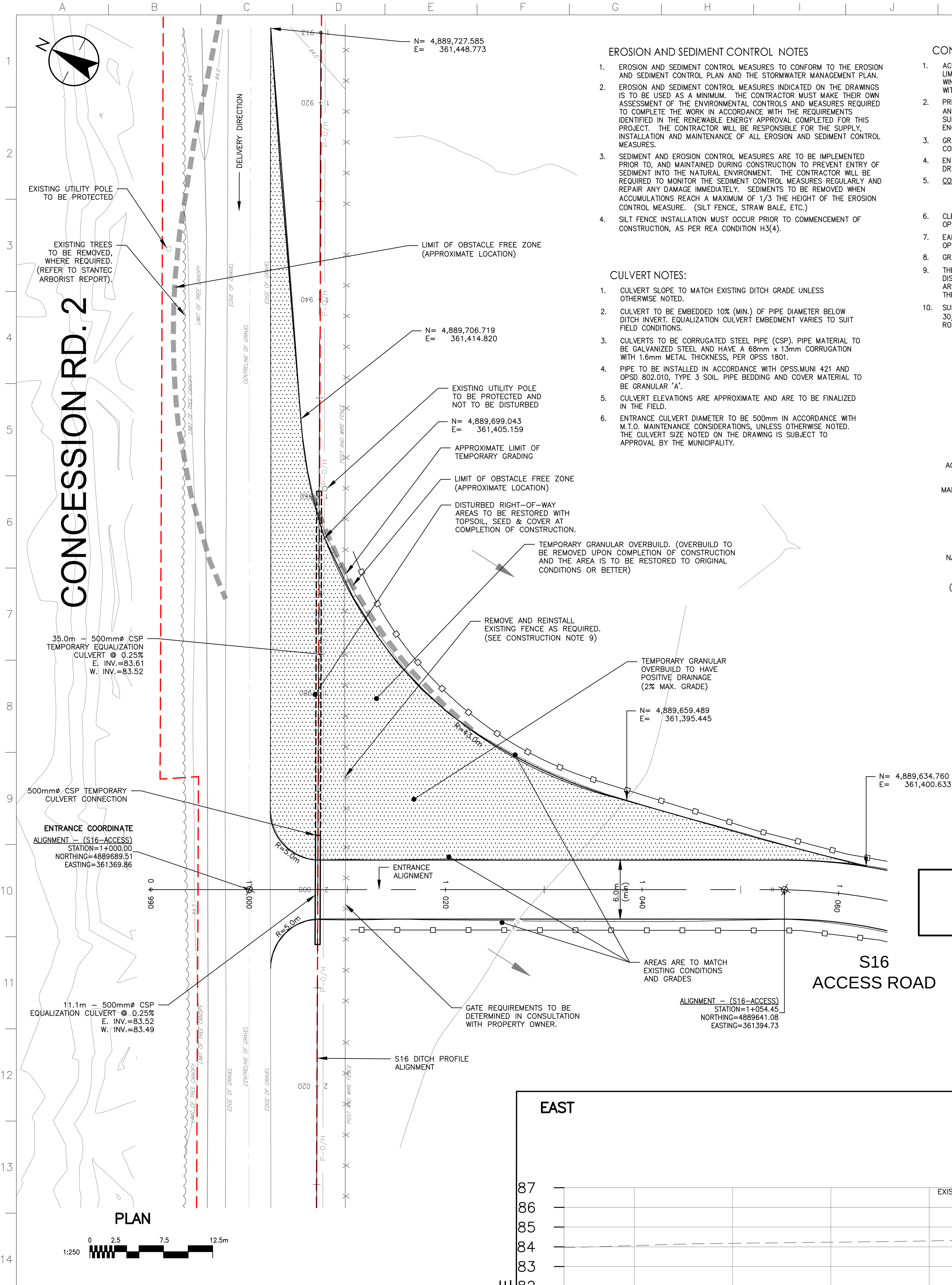
AMHERST ISLAND WIND PROJECT
75MW WIND FARM

Amherst Island, Loyalist Township, Ontario

Title

TEMPORARY ENTRANCE LAYOUT
CONCESSION ROAD 2
ENTRANCE FOR TURBINES S05 AND S20

Project No.	Scale	
133560100	1:250H / 1:125V	
Drawing No.	**Sheet**	**Revision**
PCS C207-Ent	1 of 1	A



CONTRACTOR TO MAINTAIN EXISTING DRAINAGE FLOWS AS REQUIRED

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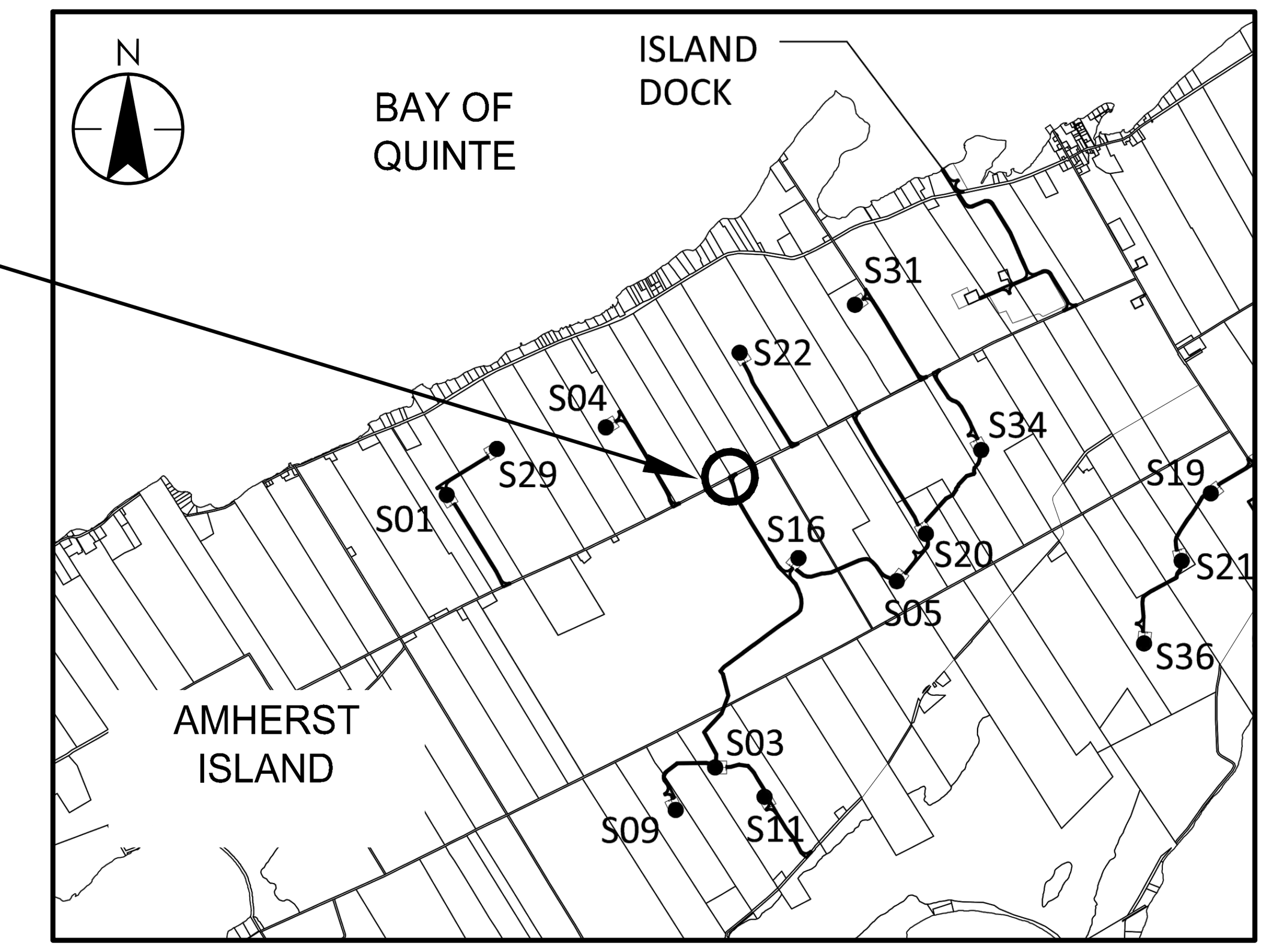
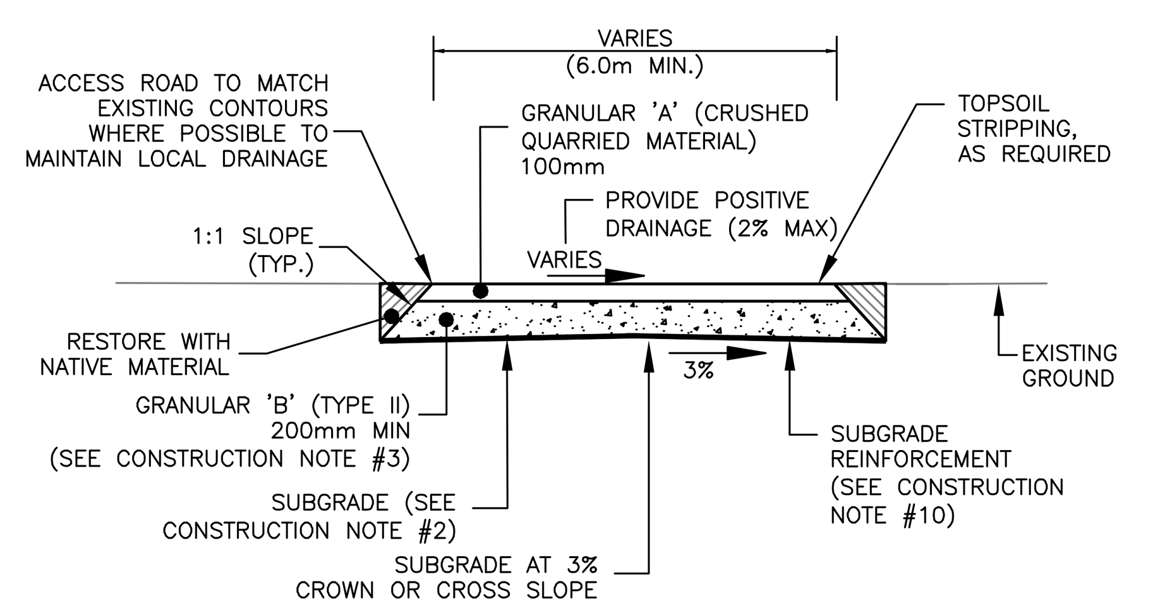
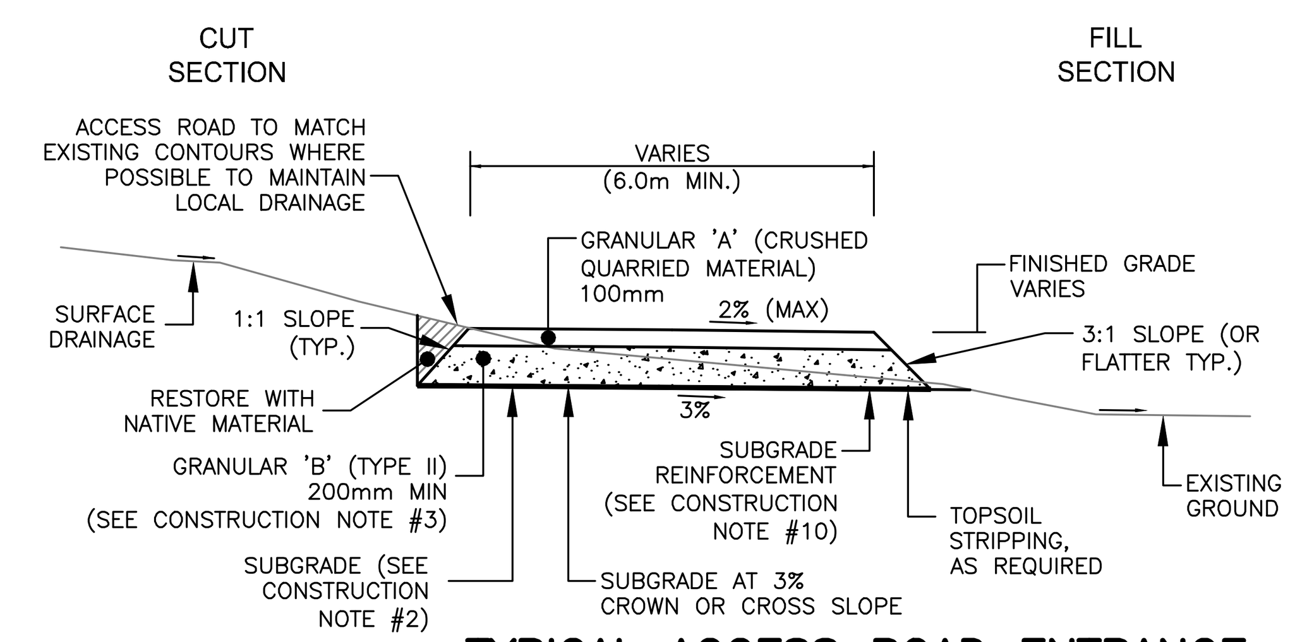
PLAN LOCATION



KEY PLAN
N.T.S



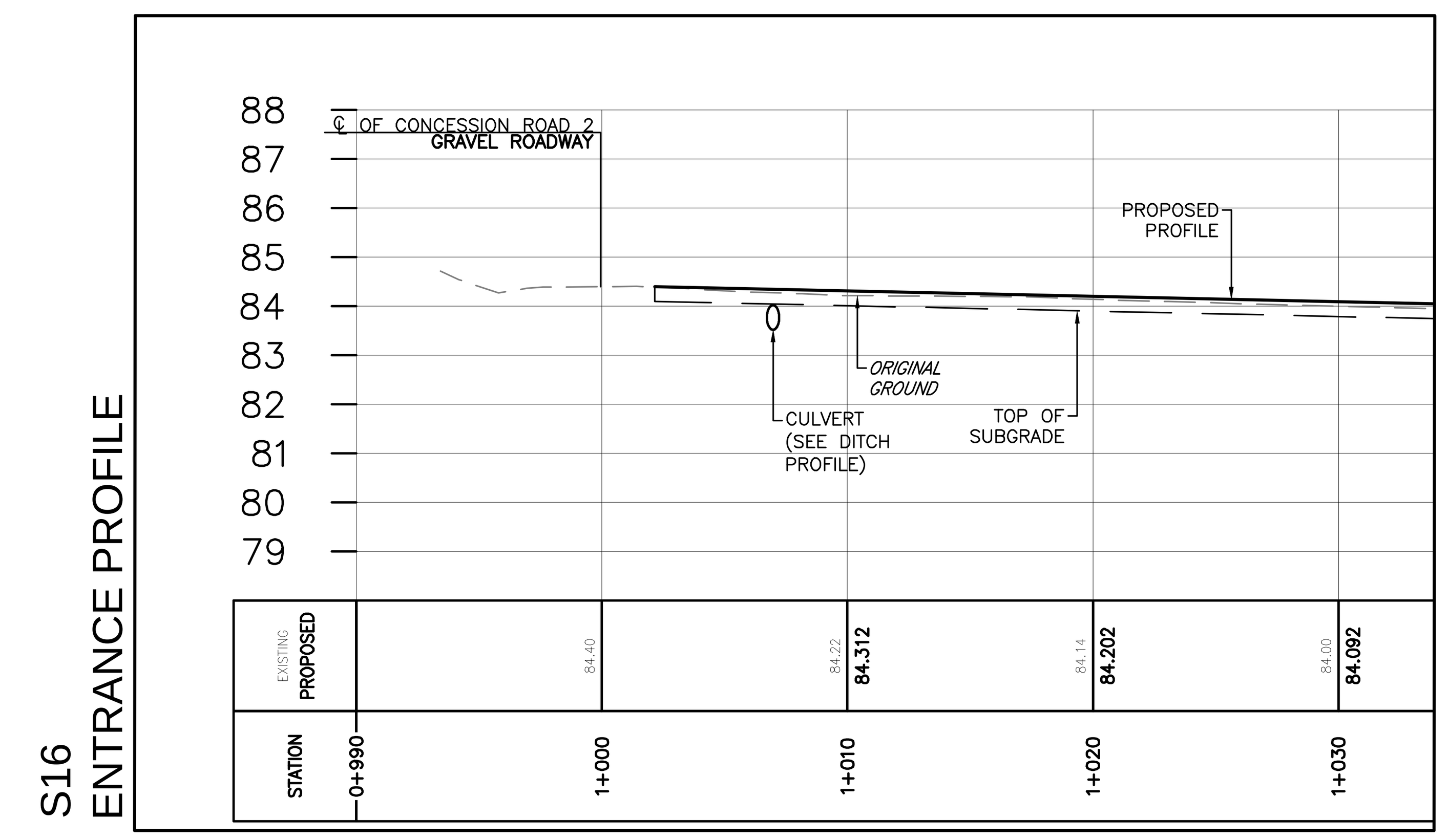
TYPICAL ACCESS ROAD ENTRANCE FLAT SECTION
N.T.S

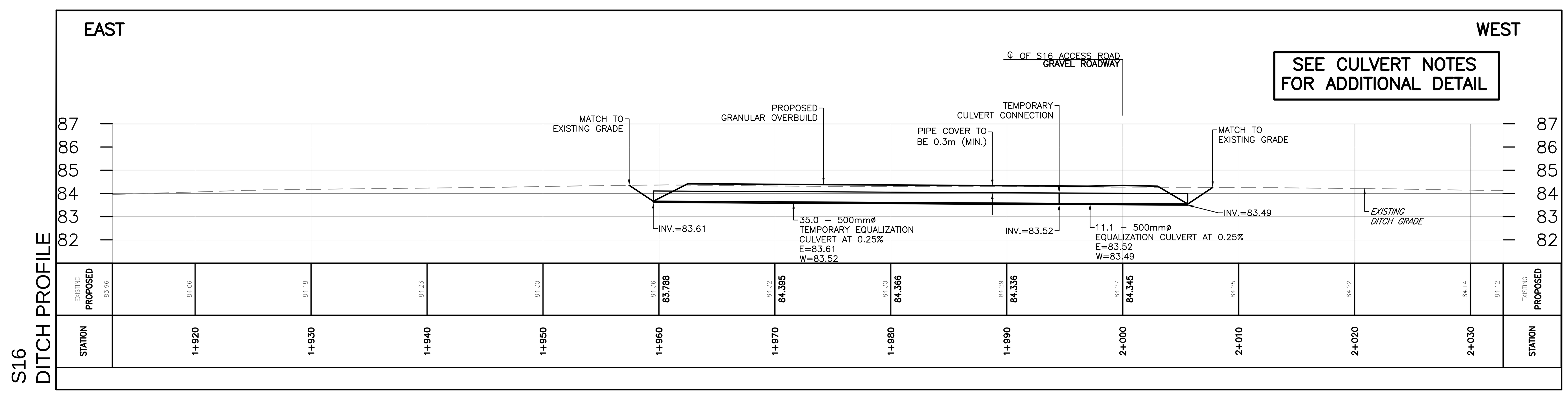


TYPICAL ACCESS ROAD ENTRANCE CUT/FILL SECTION
N.T.S

PROFILES

1:250H 1:125V





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- ROAD ALLOWANCE
- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

Revision	By	Appd.	YY.MM.DD
A PCS SUBMISSION	RCL	MPG	17.08.16

File Name	Dwn.	Chkd.	Dsgn.	YY.MM.DD
PCS C200-C215_133560100-Ents.dwg	RCL	MPG	RCL	17.08.15

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title

TEMPORARY ENTRANCE LAYOUT
CONCESSION ROAD 2
ENTRANCE FOR TURBINE S16

Project No.	Scale		
133560100	1:250H 1:125V		
Drawing No.	Sheet	Revision	
PCS C208-Ent	1 of 1	A	

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ORIGINAL SHEET - ARCH D

EROSION AND SEDIMENT CONTROL NOTES

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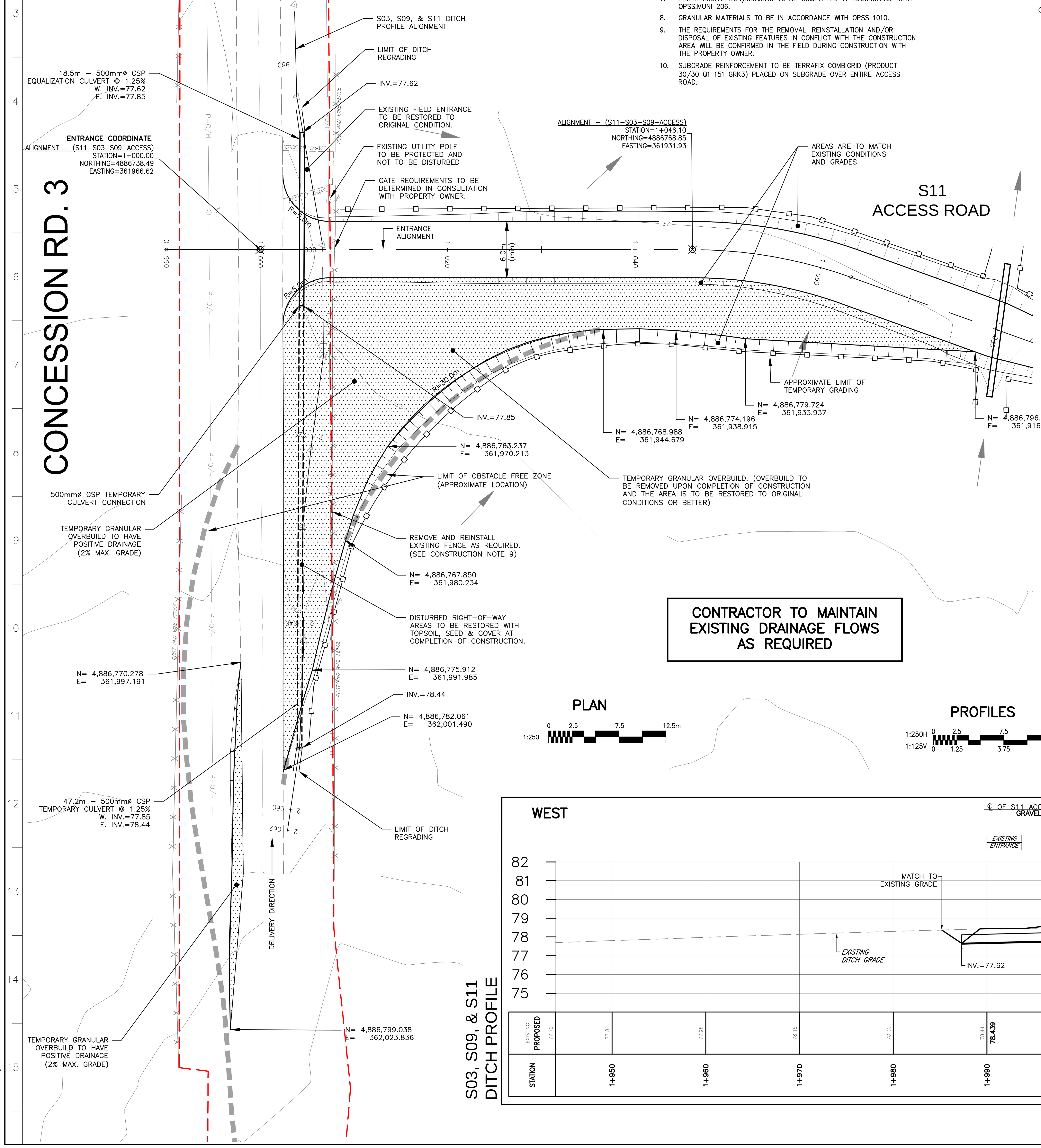
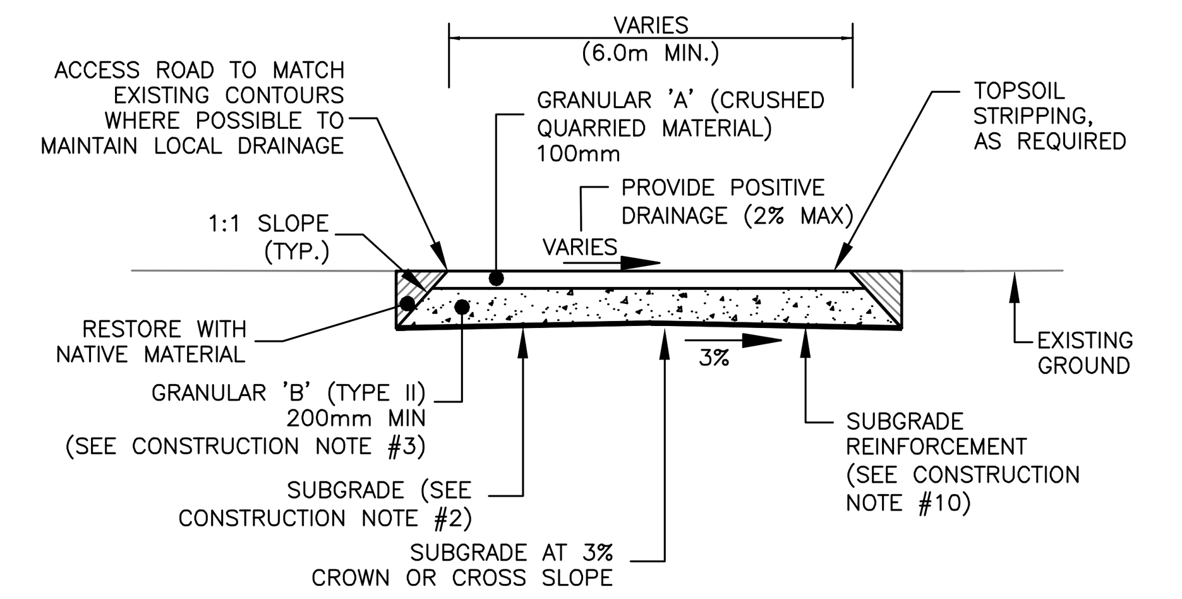
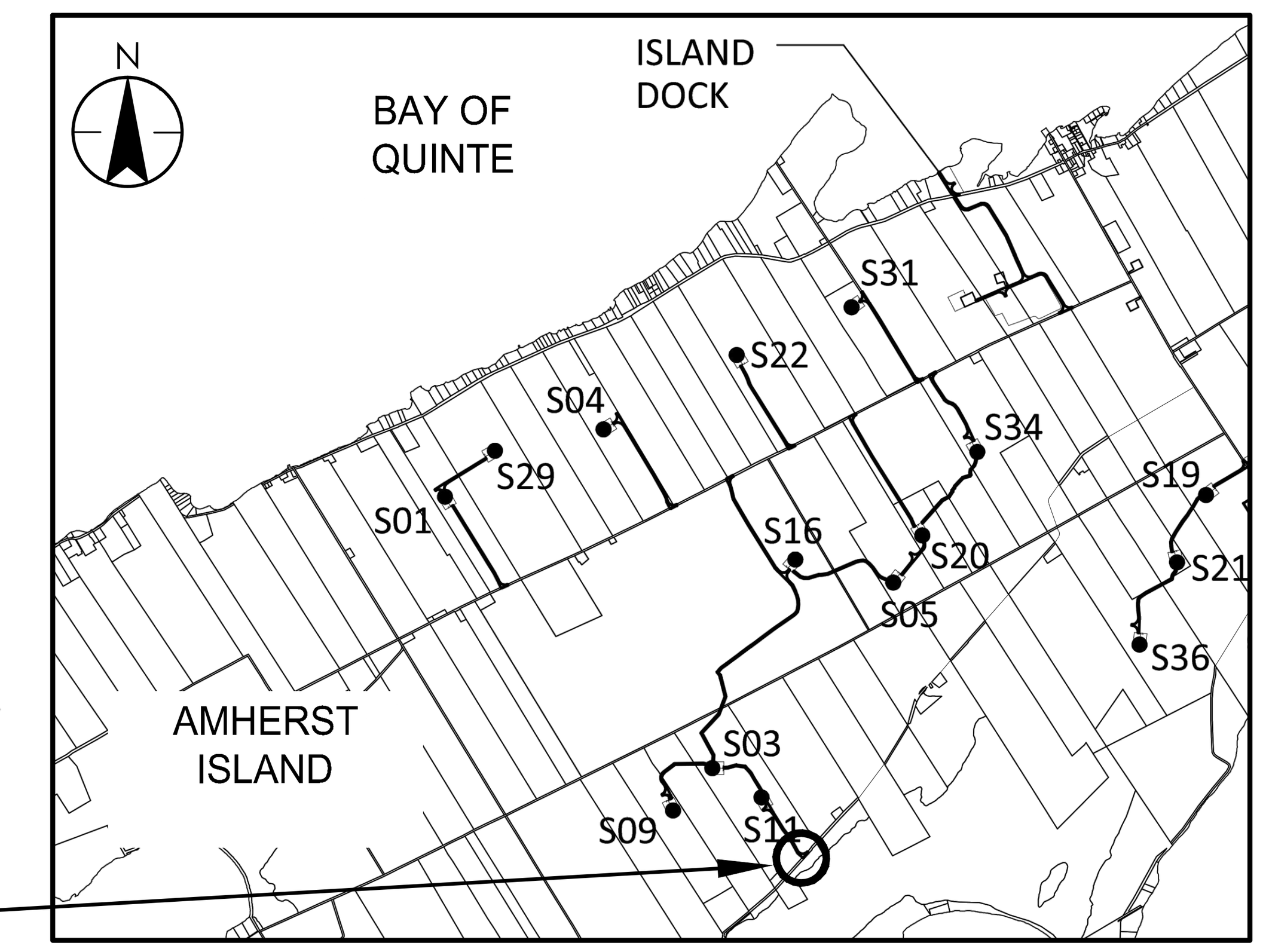




TYPICAL ACCESS ROAD ENTRANCE FLAT SECTION
N.T.S



PLAN LOCATION

KEY PLAN
N.T.S

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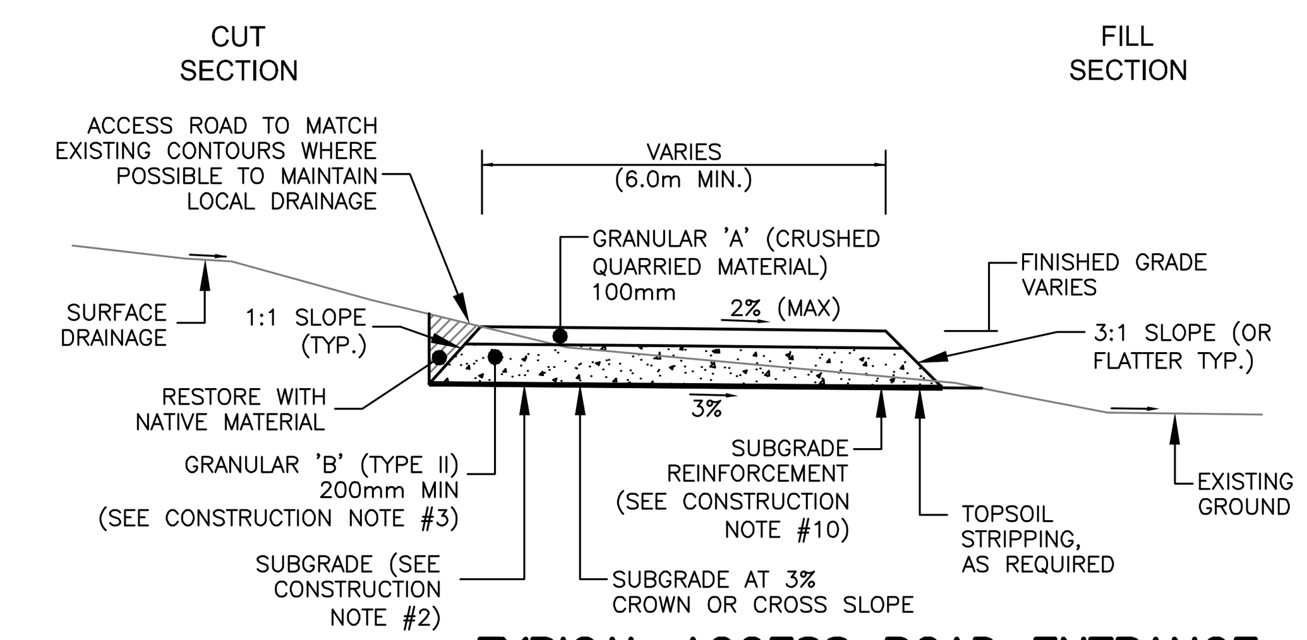
SEE DRAWING C209 FOR ADDITIONAL ACCESS ROAD DETAILS



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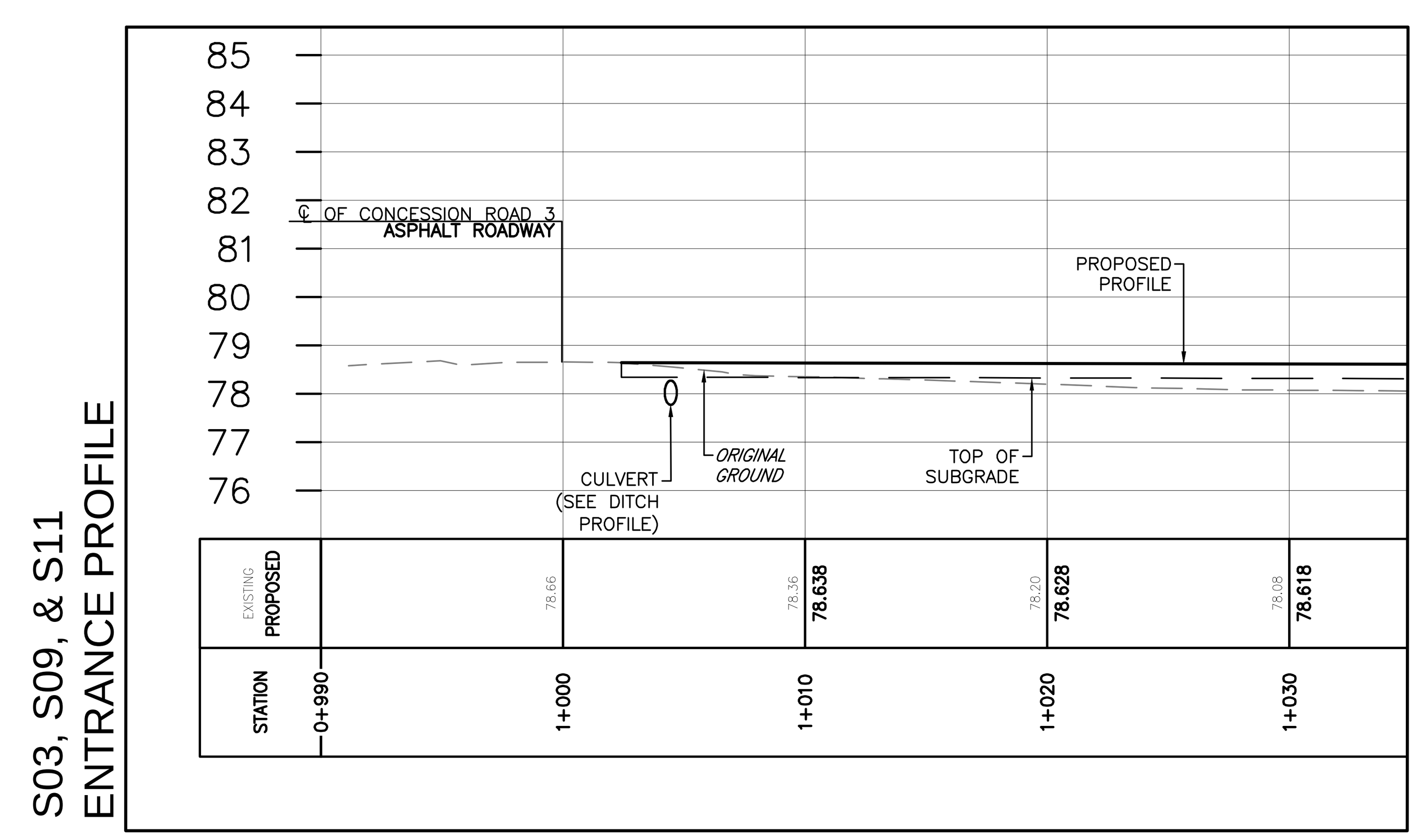
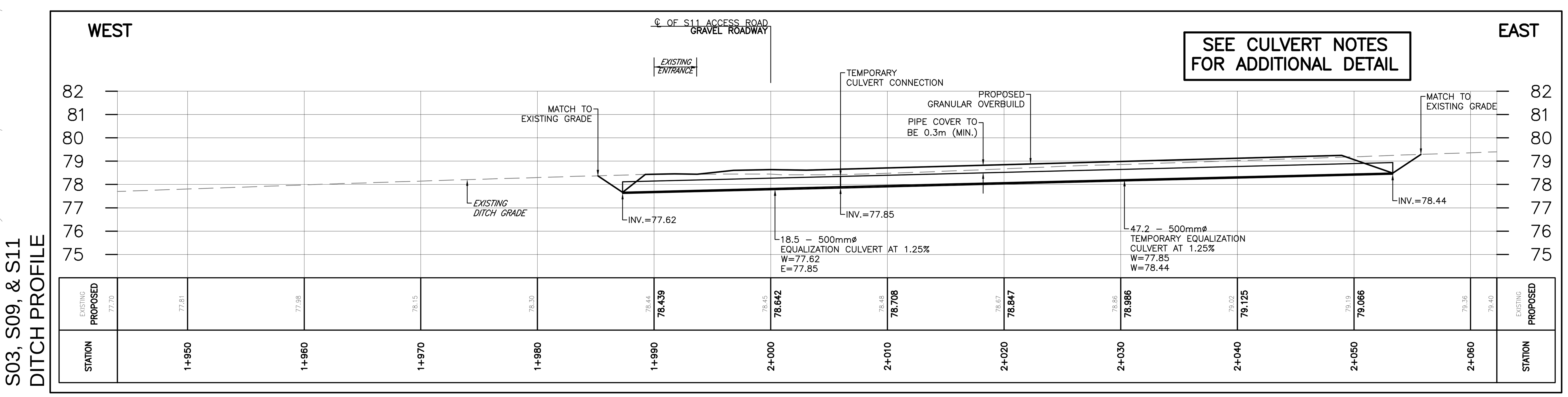


PROFILES
1:250H
1:125V



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A	PCS SUBMISSION	RCL	MPG	17.08.16
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File Name: PCS C200-C215_133560100-Ents.dwg	RCL	MPG	RCL	17.08.15
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title
TEMPORARY ENTRANCE LAYOUT
CONCESSION ROAD 3
ENTRANCE FOR TURBINES S03, S09, & S11

Project No. 133560100
Scale 1:250H 1:125V

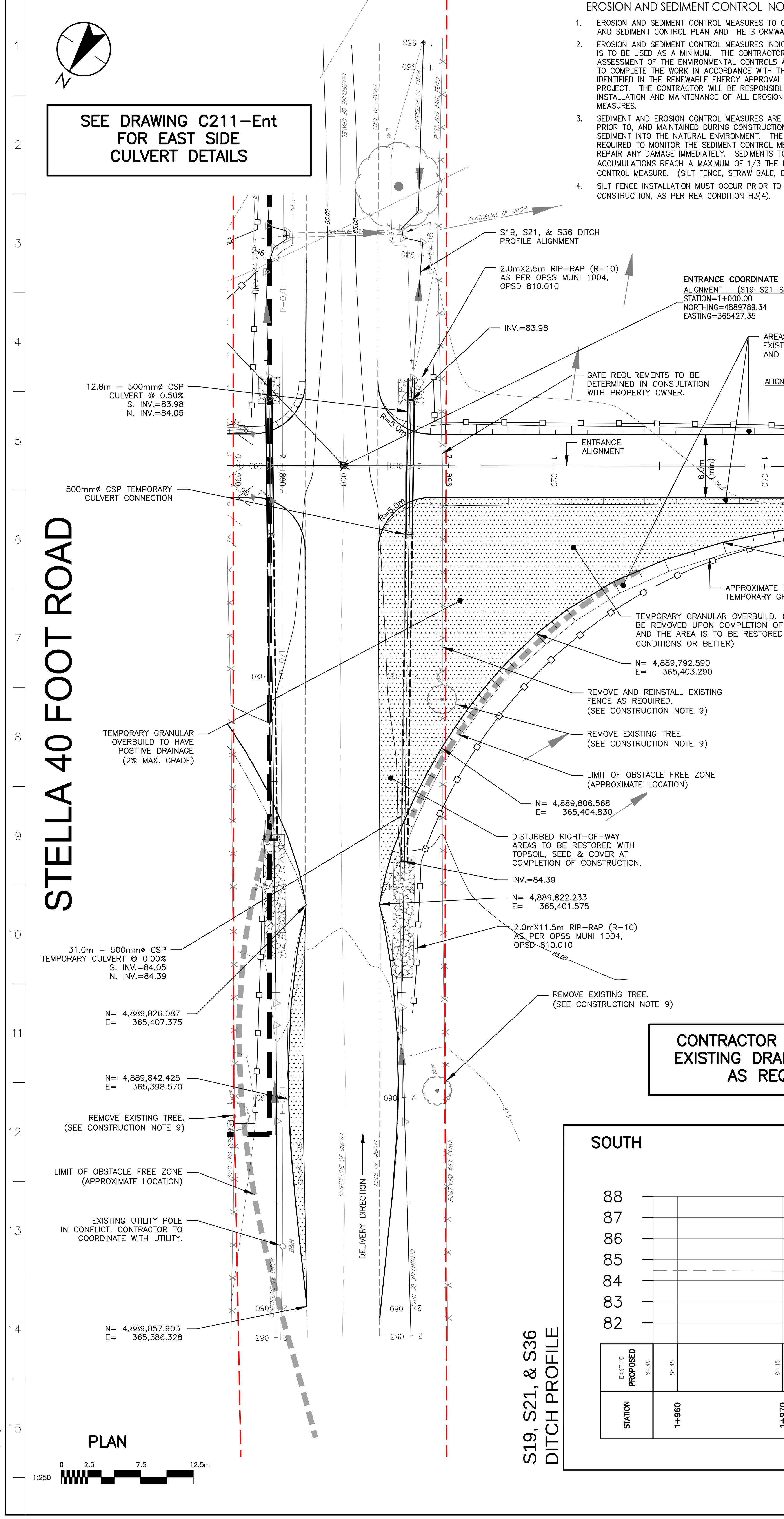
Drawing No. PCS C209-Ent
Sheet 1 of 1
Revision A

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES TO CONFORM TO THE EROSION AND SEDIMENT CONTROL PLAN AND THE STORMWATER MANAGEMENT PLAN.
2. EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE DRAWINGS IS TO BE USED AS A MINIMUM. THE CONTRACTOR MUST MAKE THEIR OWN ASSESSMENT OF THE ENVIRONMENTAL CONTROLS AND MEASURES REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE RENEWABLE ENERGY APPROVAL COMPLETED FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
3. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION TO PREVENT ENTRY OF SEDIMENT INTO THE NATURAL ENVIRONMENT. THE CONTRACTOR WILL BE REQUIRED TO MONITOR THE SEDIMENT CONTROL MEASURES REGULARLY AND REPAIR ANY DAMAGE IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE EROSION CONTROL MEASURE. (SILT FENCE, STRAW BALE, ETC.)
4. SILT FENCE INSTALLATION MUST OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION, AS PER REA CONDITION H3(4).

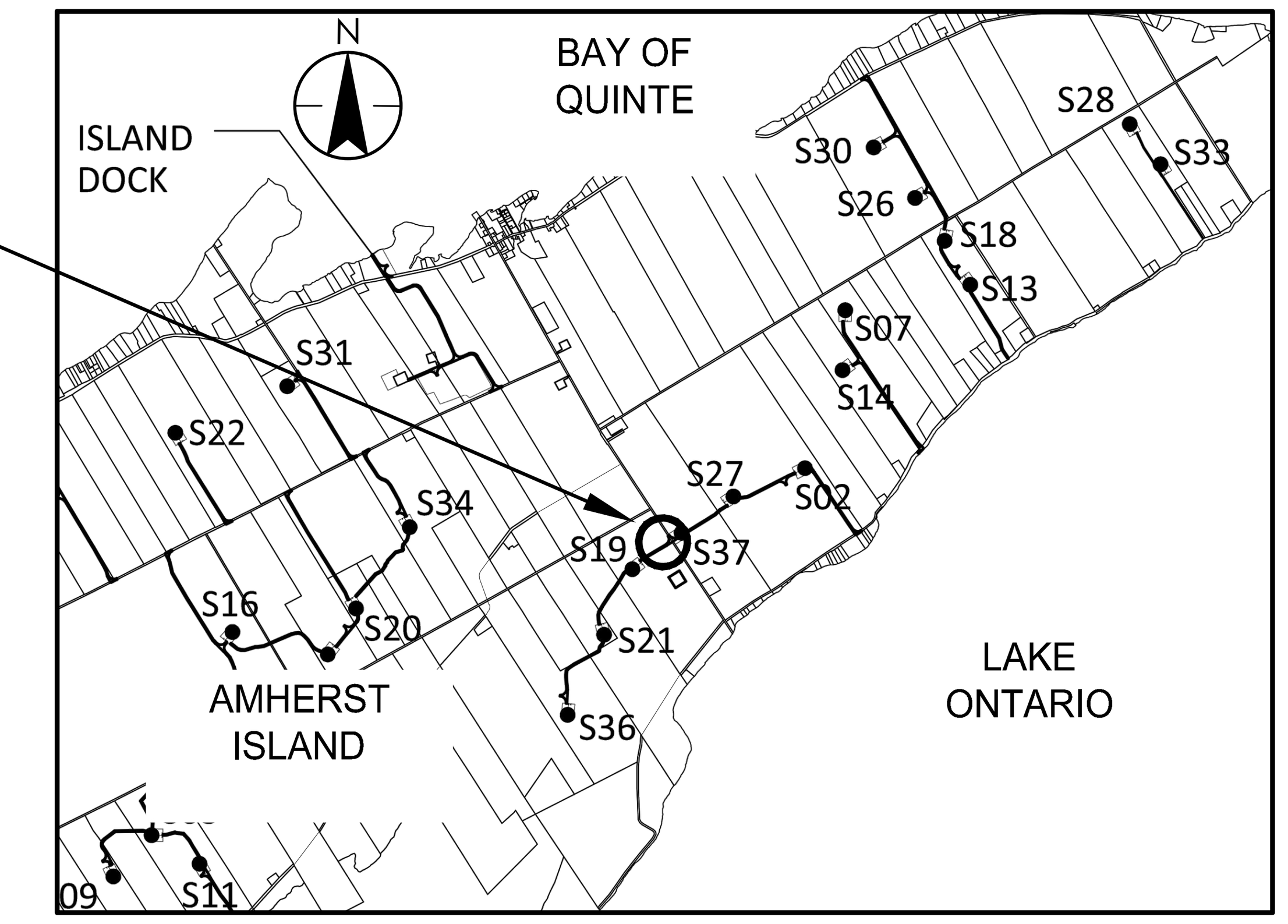
CONSTRUCTION NOTES

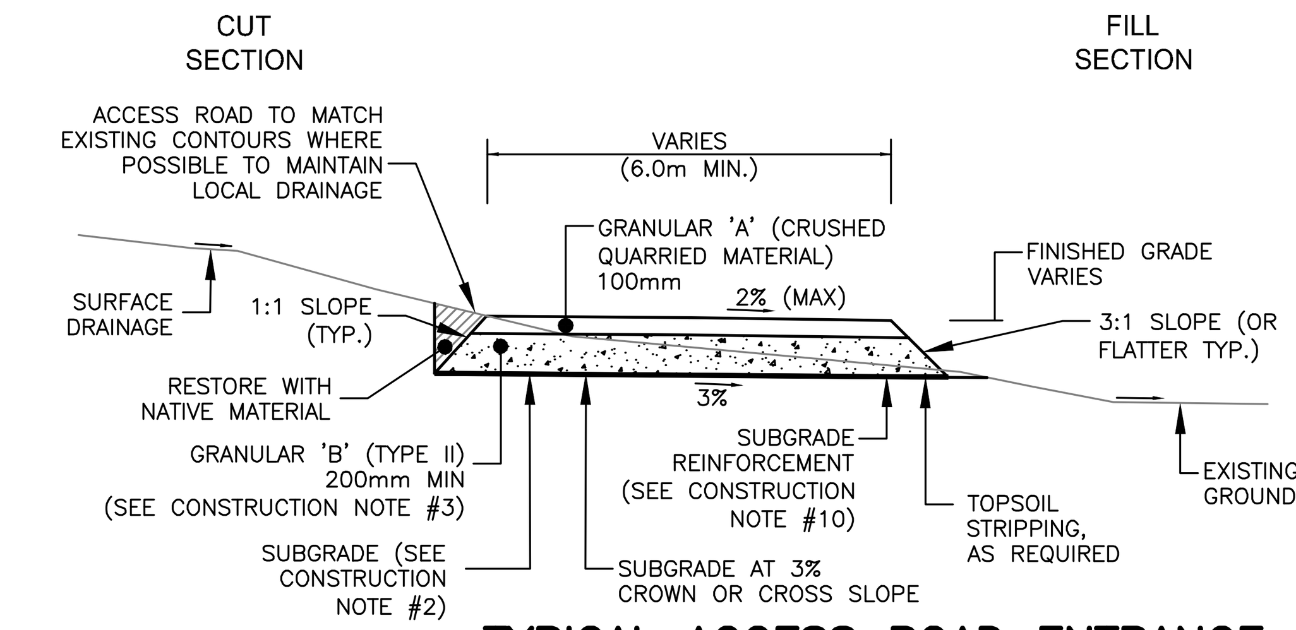
1. ACCESS ROAD AREAS TO BE STRIPPED OF TOPSOIL WITHIN GRADING LIMITS. TOPSOIL TO BE WINDROWED ALONG ACCESS ROAD. PROVIDE WINDROW OPENINGS TO ENSURE POSITIVE DRAINAGE IS MAINTAINED WITHIN CONSTRUCTIBLE AREA AND APPLICABLE SILT FENCES.
2. PRIOR TO GRANULAR PLACEMENT, SUBGRADE TO BE PROOF–ROLLED AND WET/UNSTABLE AREAS REMOVED AND REPLACED WITH ADDITIONAL SUITABLE SUB–BASE MATERIAL, AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR DESIGNATE.
3. GRANULAR 'B' SUB–BASE THICKNESS TO BE ADJUSTED TO SUIT LOCAL CONDITIONS.
4. ENTRANCE SIDE SLOPES TO BE 3:1 UNLESS OTHERWISE NOTED ON PLAN DRAWINGS.
5. COMPACTION REQUIREMENTS:
   SUBGRADE – 95% STANDARD PROCTOR DENSITY
   GRANULARS – 98% STANDARD PROCTOR DENSITY
6. CLEARING AND GRUBBING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 201.
7. EARTH EXCAVATION/GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 206.
8. GRANULAR MATERIALS TO BE IN ACCORDANCE WITH OPSS 1010.
9. THE REQUIREMENTS FOR THE REMOVAL, REINSTALLATION AND/OR DISPOSAL OF EXISTING FEATURES IN CONFLICT WITH THE CONSTRUCTION AREA WILL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION WITH THE PROPERTY OWNER.
10. SUBGRADE REINFORCEMENT TO BE TERRAFIX COMBIGRID (PRODUCT 30/30 Q1 151 GRK3) PLACED ON SUBGRADE OVER ENTIRE ACCESS ROAD.



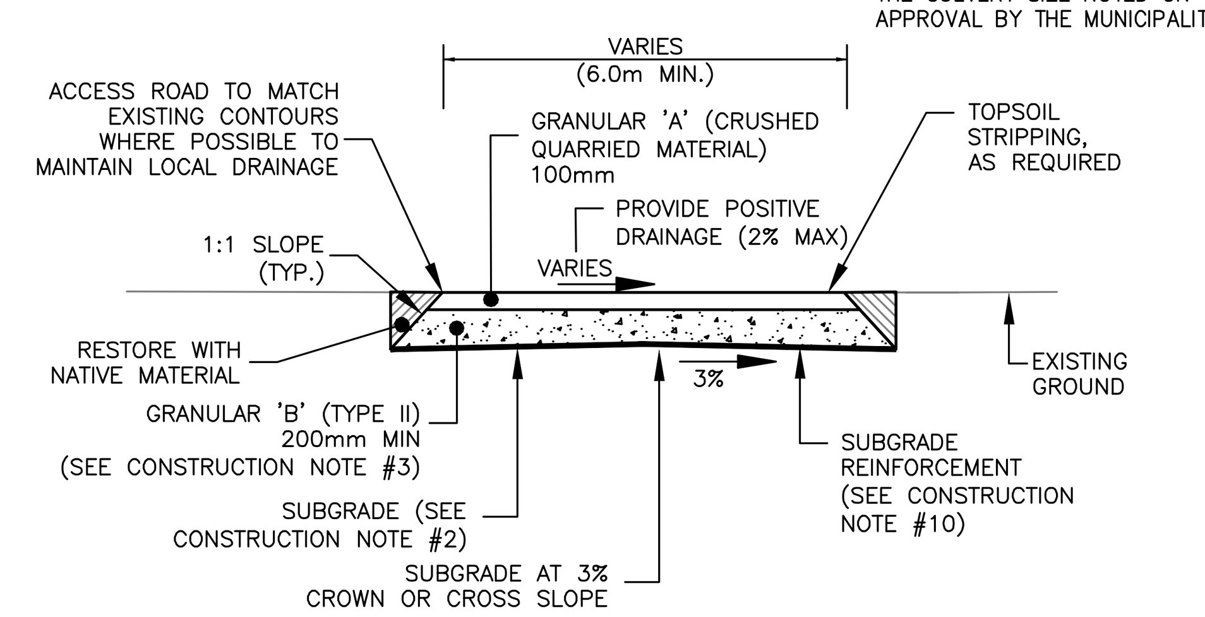
CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED.
2. CULVERT TO BE EMBEDDED 10% (MIN.) OF PIPE DIAMETER BELOW DITCH INVERT. EQUALIZATION CULVERT EMBEDMENT VARIES TO SUIT FIELD CONDITIONS.
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, PER OPSS 1801.
4. PIPE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 421 AND OPSD 802.010, TYPE 3 SOIL. PIPE BEDDING AND COVER MATERIAL TO BE GRANULAR 'A'.
5. CULVERT ELEVATIONS ARE APPROXIMATE AND ARE TO BE FINALIZED IN THE FIELD.
6. ENTRANCE CULVERT DIAMETER TO BE 500mm IN ACCORDANCE WITH M.T.O. MAINTENANCE CONSIDERATIONS, UNLESS OTHERWISE NOTED. THE CULVERT SIZE NOTED ON THE DRAWING IS SUBJECT TO APPROVAL BY THE MUNICIPALITY.



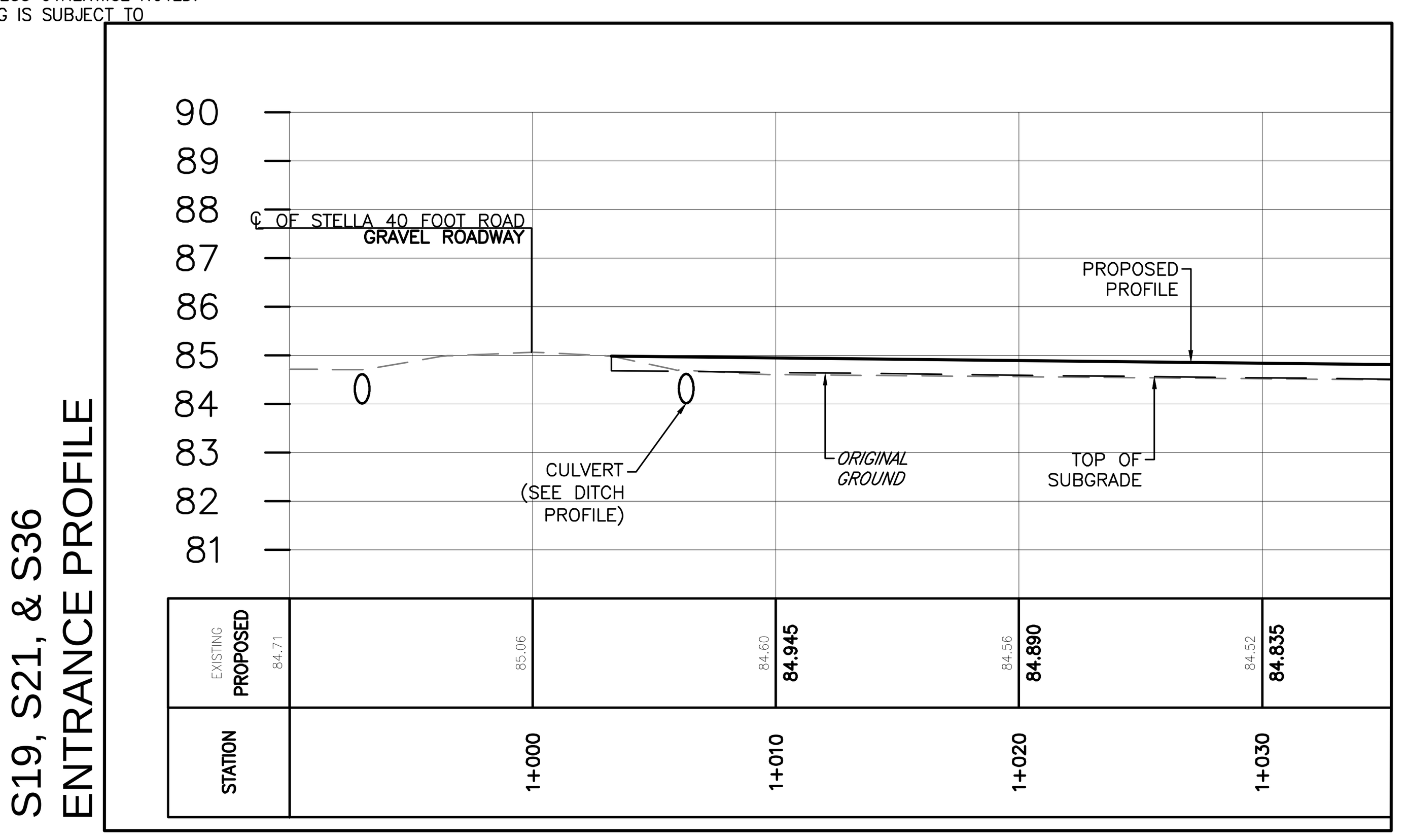


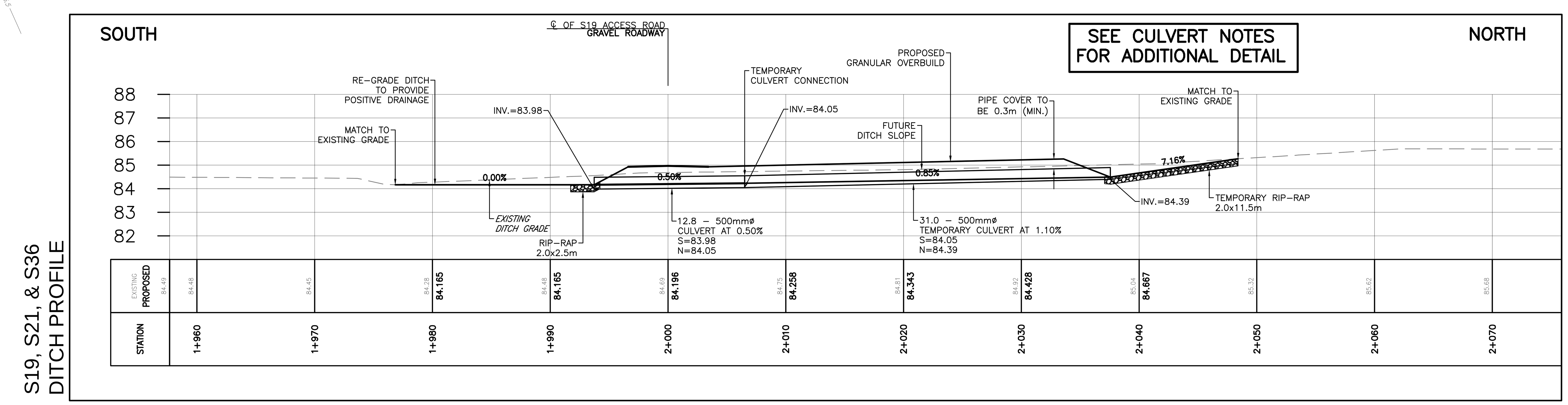
TYPICAL ACCESS ROAD ENTRANCE CUT/FILL SECTION
N.T.S



TYPICAL ACCESS ROAD ENTRANCE FLAT SECTION
N.T.S

PROFILES
1:250H
1:125V





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General Notes

1. UNDER GROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS AND WHERE SHOWN, THE ACCURACY OF POSITION IS NOT GUARANTEED. THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL UTILITY PLANTS PRIOR TO STARTING WORK.
2. UTILITY AND OTHER CONFLICTS HAVE NOT BEEN ADDRESSED IN THESE DRAWINGS, AND WILL BE RESOLVED IN THE FIELD USING VERIFIED UTILITY LOCATIONS AND OTHER SITE INFORMATION. CONSULT WITH WINDLECTRIC TO DETERMINE ANY OTHER LANDOWNER UNDERGROUND SERVICES THAT MAY BE AFFECTED BY THE ROAD CONSTRUCTION.
3. TOPOGRAPHICAL SURVEY COMPLETED BY McINTOSH PERRY CONSULTING ENGINEERS, DATED 2015. (UTM ZONE 18 NAD83 (CRSR) 1997.0)
4. ENTRANCE RADII AS NOTED TO BE PROVIDED FROM EDGE OF PAVEMENT OR GRAVEL AS SHOWN ON PLAN DRAWING. RADIUS MODIFICATIONS MAY BE REQUIRED SUBJECT TO REVIEW OF ENTRANCE SKEW ANGLE AND VEHICLE ACCESS REQUIREMENTS.
5. NOTED DELIVERY ROUTE DIRECTION IS IN ACCORDANCE WITH WINDLECTRIC INC'S TRAFFIC MANAGEMENT PLAN.
6. CONTRACTOR TO ADHERE TO ALL CONSERVATION AUTHORITY PERMITS AND CONDITIONS OF APPROVAL.
7. RIGHT OF WAY LIMITS ARE IN ACCORDANCE WITH INFORMATION PROVIDED BY McINTOSH PERRY CONSULTING ENGINEERS, AND COMPLY WITH ALL OTHER PERMITS ASSOCIATED WITH THE WORKS AND REA COMMITMENTS.

Legend

- EXISTING OVERLAND FLOW/DITCH DIRECTION
- PROPOSED DITCH FLOW
- EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
- EXISTING GROUND CONTOURS (FROM LIDAR MAPPING)
- ROAD ALLOWANCE
- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

A	PCS SUBMISSION	RCL	MPG	17.08.16
Revision		By	Appd.	YY.MM.DD

File Name: PCS C200-C215_133560100-Ents.dwg	RCL	MPG	RCL	17.08.15
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title

TEMPORARY ENTRANCE LAYOUT
STELLA 40 FOOT ROAD
ENTRANCE FOR TURBINES S19, S21, & S36

Project No.	Scale
133560100	1:250H 1:125V

Drawing No.	Sheet	Revision
PCS C210-Ent	1 of 1	A

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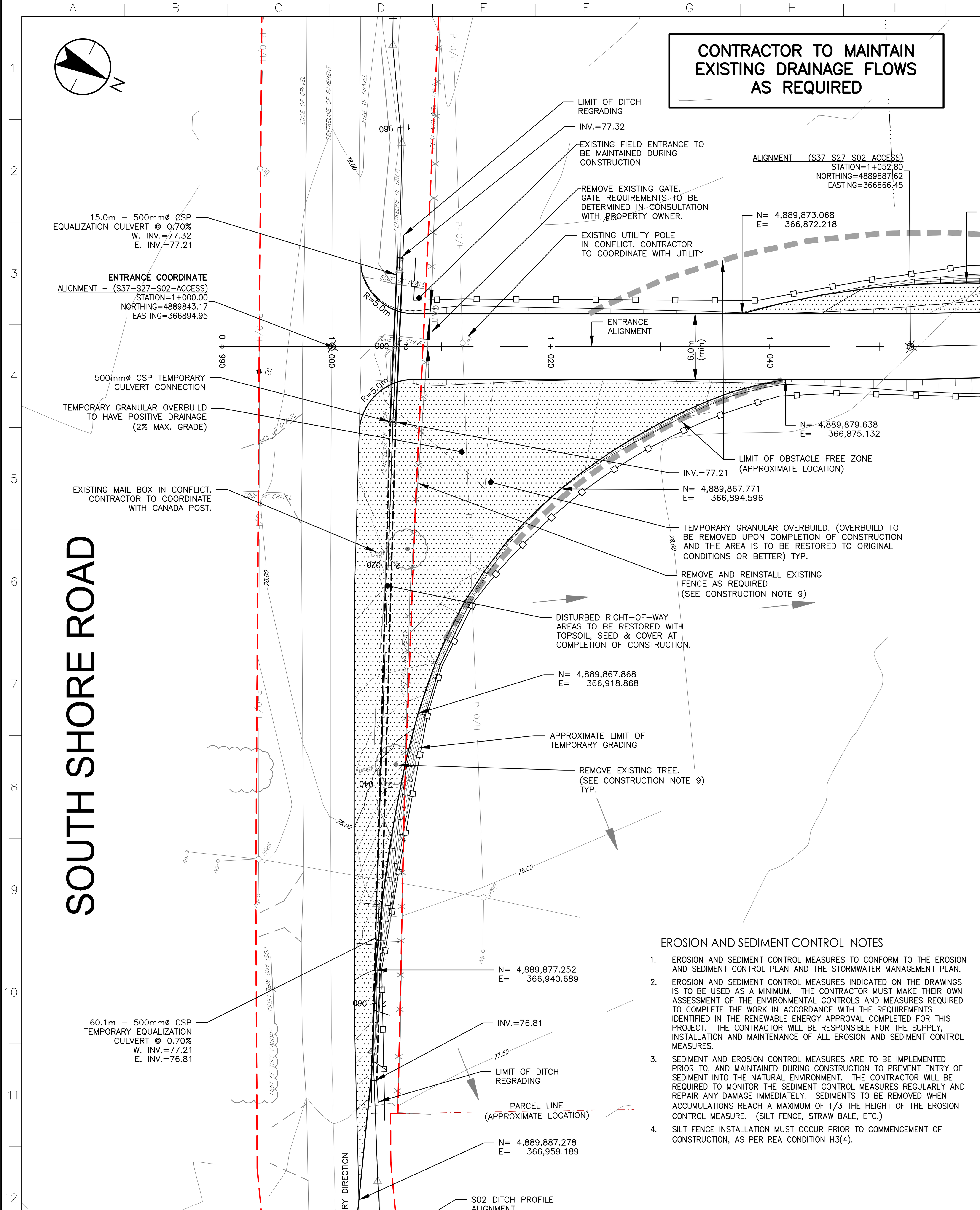
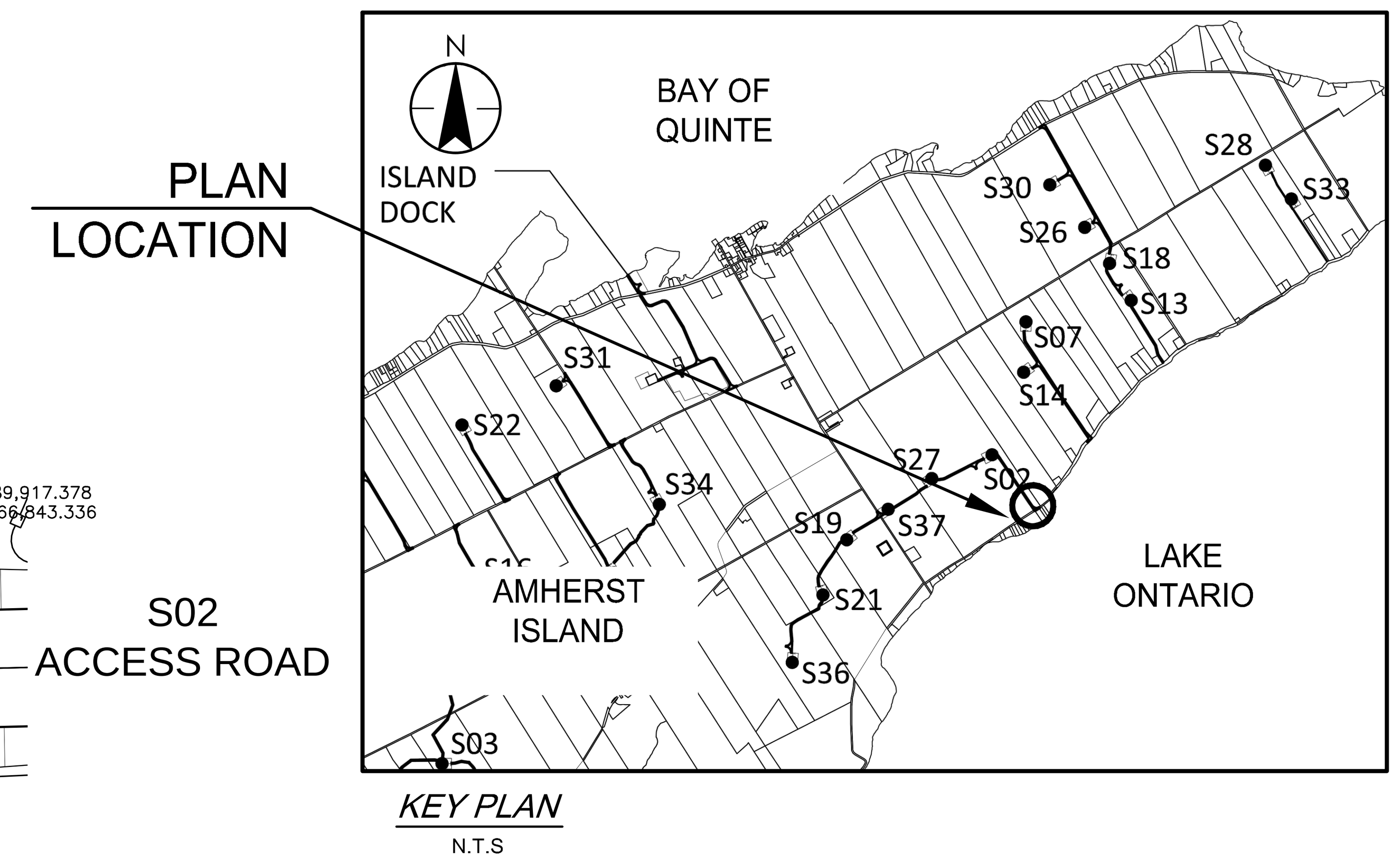
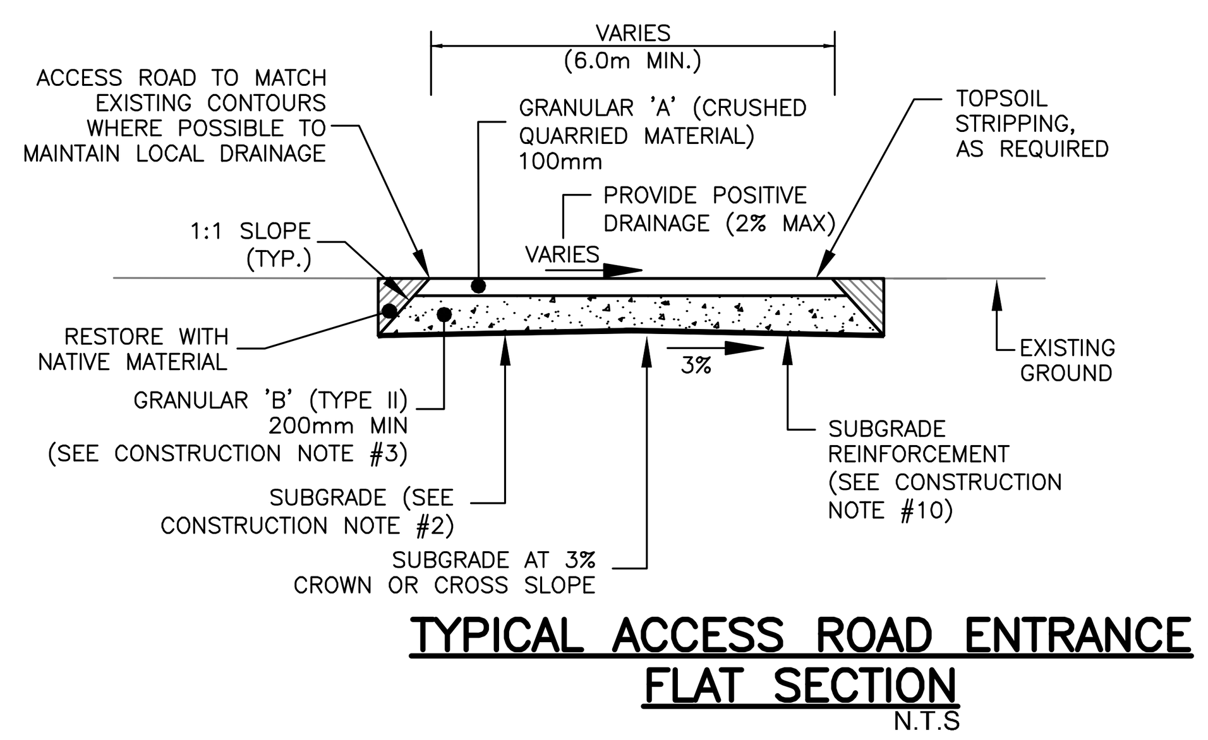
2017/08/16 9:57 AM By: Leguerrier, Bob

ORIGINAL SHEET - ARCH D



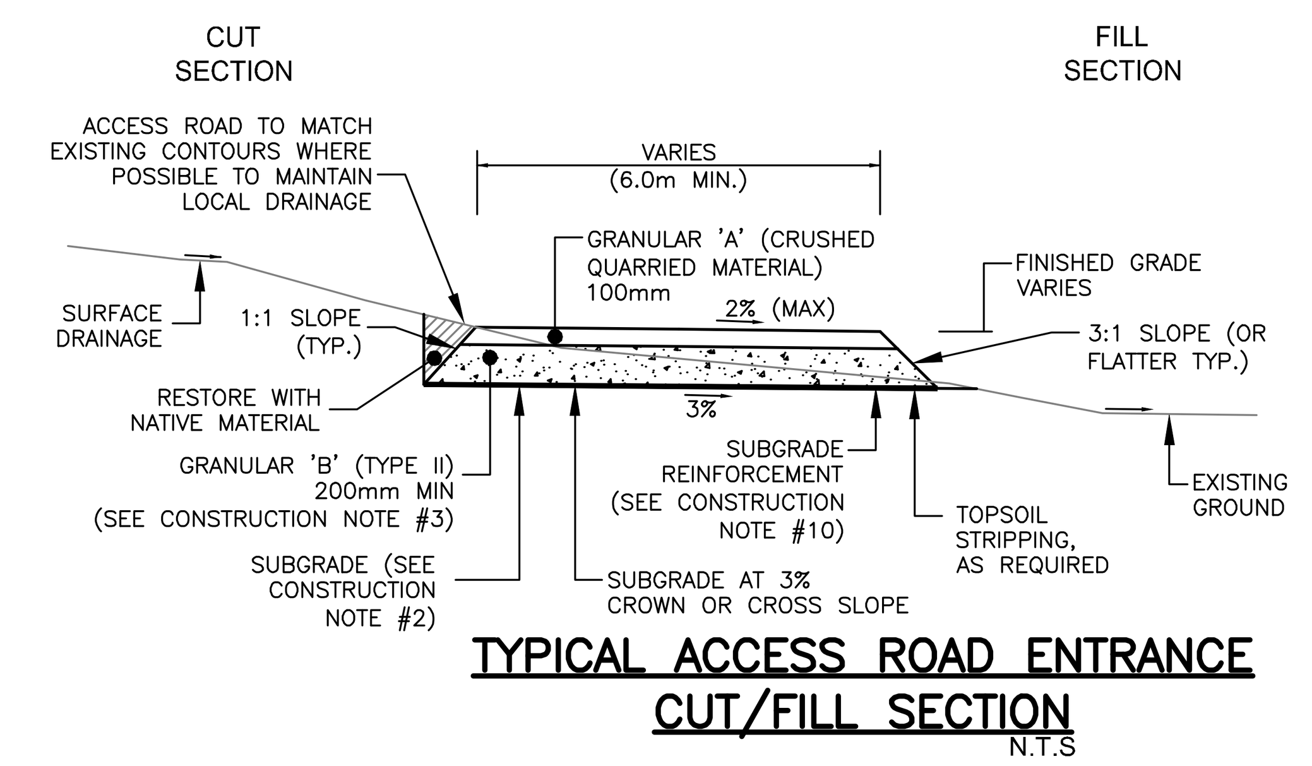
CONTRACTOR TO MAINTAIN EXISTING DRAINAGE FLOWS AS REQUIRED
SEE DRAWING C211 FOR ADDITIONAL ACCESS ROAD DETAILS
SOUTH SHORE ROAD
S02 ACCESS ROAD
PLAN
1:250
LIMIT OF DITCH REGRADING
INV.=77.32
EXISTING FIELD ENTRANCE TO BE MAINTAINED DURING CONSTRUCTION
REMOVE EXISTING GATE. GATE REQUIREMENTS TO BE DETERMINED IN CONSULTATION WITH PROPERTY OWNER.
EXISTING UTILITY POLE IN CONFLICT. CONTRACTOR TO COORDINATE WITH UTILITY
ALIGNMENT – (S37–S27–S02–ACCESS) STATION=1+052.80 NORTHING=4889887.62 EASTING=366866.45
15.0m – 500mmø CSP EQUALIZATION CULVERT @ 0.70% W. INV.=77.32 E. INV.=77.21
ENTRANCE COORDINATE ALIGNMENT – (S37–S27–S02–ACCESS) STATION=1+000.00 NORTHING=4889843.17 EASTING=366894.95
ENTRANCE ALIGNMENT
500mmø CSP TEMPORARY CULVERT CONNECTION
TEMPORARY GRANULAR OVERBUILD TO HAVE POSITIVE DRAINAGE (2% MAX. GRADE)
EXISTING MAIL BOX IN CONFLICT. CONTRACTOR TO COORDINATE WITH CANADA POST.
DELIVERY DIRECTION
AREAS ARE TO MATCH EXISTING CONDITIONS AND GRADES
LIMIT OF OBSTACLE FREE ZONE (APPROXIMATE LOCATION)
INV.=77.21
TEMPORARY GRANULAR OVERBUILD. (OVERBUILD TO BE REMOVED UPON COMPLETION OF CONSTRUCTION AND THE AREA IS TO BE RESTORED TO ORIGINAL CONDITIONS OR BETTER) TYP.
REMOVE AND REINSTALL EXISTING FENCE AS REQUIRED. (SEE CONSTRUCTION NOTE 9)
DISTURBED RIGHT–OF–WAY AREAS TO BE RESTORED WITH TOPSOIL, SEED & COVER AT COMPLETION OF CONSTRUCTION.
APPROXIMATE LIMIT OF TEMPORARY GRADING
REMOVE EXISTING TREE. (SEE CONSTRUCTION NOTE 9) TYP.
60.1m – 500mmø CSP TEMPORARY EQUALIZATION CULVERT @ 0.70% W. INV.=77.21 E. INV.=76.81
INV.=76.81
LIMIT OF DITCH REGRADING
PARCEL LINE (APPROXIMATE LOCATION)
S02 DITCH PROFILE ALIGNMENT
N= 4,889,873.068 E= 366,872.218
N= 4,889,888.781 E= 366,858.795
N= 4,889,901.354 E= 366,851.713
N= 4,889,917.378 E= 366,843.336
N= 4,889,879.638 E= 366,875.132
N= 4,889,867.771 E= 366,894.596
N= 4,889,867.868 E= 366,918.868
N= 4,889,877.252 E= 366,940.689
N= 4,889,887.278 E= 366,959.189





VARIES (6.0m MIN.)
ACCESS ROAD TO MATCH EXISTING CONTOURS WHERE POSSIBLE TO MAINTAIN LOCAL DRAINAGE
GRANULAR 'A' (CRUSHED QUARRIED MATERIAL) 100mm
TOPSOIL STRIPPING, AS REQUIRED
PROVIDE POSITIVE DRAINAGE (2% MAX)
1:1 SLOPE (TYP.)
VARIES
RESTORE WITH NATIVE MATERIAL
GRANULAR 'B' (TYPE II) 200mm MIN (SEE CONSTRUCTION NOTE #3)
EXISTING GROUND
SUBGRADE REINFORCEMENT (SEE CONSTRUCTION NOTE #10)
SUBGRADE (SEE CONSTRUCTION NOTE #2)
SUBGRADE AT 3% CROWN OR CROSS SLOPE

TYPICAL ACCESS ROAD ENTRANCE FLAT SECTION
N.T.S



CUT SECTION
FILL SECTION
ACCESS ROAD TO MATCH EXISTING CONTOURS WHERE POSSIBLE TO MAINTAIN LOCAL DRAINAGE
VARIES (6.0m MIN.)
GRANULAR 'A' (CRUSHED QUARRIED MATERIAL) 100mm
2% (MAX)
FINISHED GRADE VARIES
SURFACE DRAINAGE
1:1 SLOPE (TYP.)
3:1 SLOPE (OR FLATTER TYP.)
RESTORE WITH NATIVE MATERIAL
GRANULAR 'B' (TYPE II) 200mm MIN (SEE CONSTRUCTION NOTE #3)
SUBGRADE REINFORCEMENT (SEE CONSTRUCTION NOTE #10)
EXISTING GROUND
TOPSOIL STRIPPING, AS REQUIRED
SUBGRADE (SEE CONSTRUCTION NOTE #2)
SUBGRADE AT 3% CROWN OR CROSS SLOPE

TYPICAL ACCESS ROAD ENTRANCE CUT/FILL SECTION
N.T.S

CONSTRUCTION NOTES

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3. GRANULAR 'B' SUB–BASE THICKNESS TO BE ADJUSTED TO SUIT LOCAL CONDITIONS.
4. ENTRANCE SIDE SLOPES TO BE 3:1 UNLESS OTHERWISE NOTED ON PLAN DRAWINGS.
5. COMPACTION REQUIREMENTS:
   SUBGRADE – 95% STANDARD PROCTOR DENSITY
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EROSION AND SEDIMENT CONTROL NOTES

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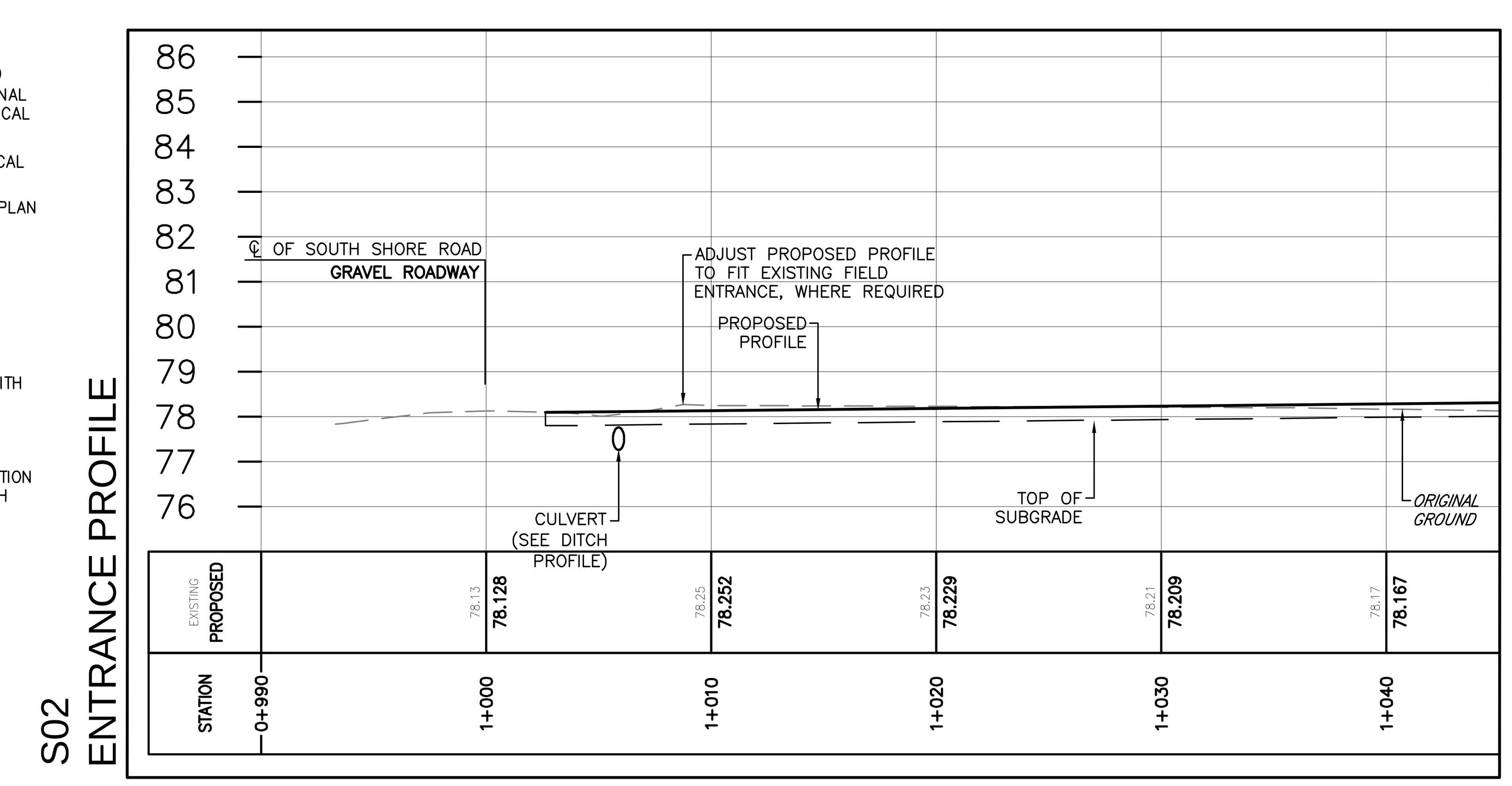
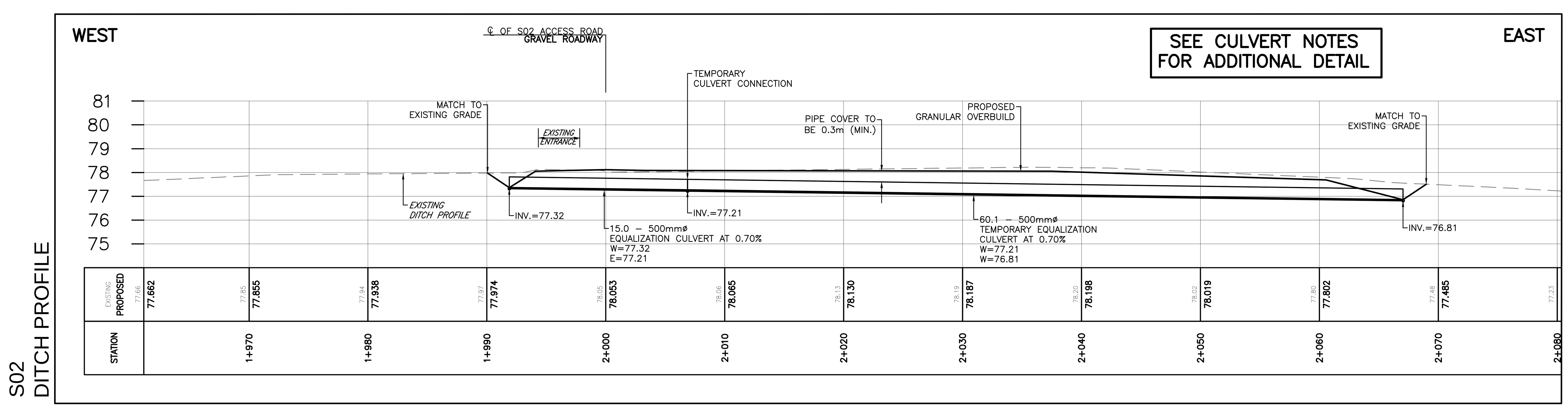
4. SILT FENCE INSTALLATION MUST OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION, AS PER REA CONDITION H3(4).

PROFILES

1:250H 0 2.5 7.5 12.5m
1:125V 0 1.25 3.75 6.25m



S02 ENTRANCE PROFILE
℄ OF SOUTH SHORE ROAD GRAVEL ROADWAY
ADJUST PROPOSED PROFILE TO FIT EXISTING FIELD ENTRANCE, WHERE REQUIRED
PROPOSED PROFILE
CULVERT (SEE DITCH PROFILE)
TOP OF SUBGRADE
ORIGINAL GROUND
PROPOSED
STATION
0+990
1+000
1+010
1+020
1+030
1+040
78.128
78.252
78.229
78.209
78.167



S02 DITCH PROFILE
WEST
EAST
SEE CULVERT NOTES FOR ADDITIONAL DETAIL
℄ OF S02 ACCESS ROAD GRAVEL ROADWAY
TEMPORARY CULVERT CONNECTION
MATCH TO EXISTING GRADE
EXISTING ENTRANCE
PIPE COVER TO BE 0.3m (MIN.)
GRANULAR OVERBUILD
PROPOSED
EXISTING DITCH PROFILE
INV.=77.32
INV.=77.21
INV.=76.81
15.0 – 500mmø EQUALIZATION CULVERT AT 0.70% W=77.32 E=77.21
60.1 – 500mmø TEMPORARY EQUALIZATION CULVERT AT 0.70% W=77.21 E=76.81
STATION
1+970
1+980
1+990
2+000
2+010
2+020
2+030
2+040
2+050
2+060
2+070
2+080
77.662
77.855
77.938
77.974
78.053
78.065
78.130
78.187
78.198
78.019
77.802
77.485

CULVERT NOTES:

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General Notes

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Legend

- EXISTING OVERLAND FLOW/DITCH DIRECTION
- PROPOSED DITCH FLOW
- EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
- EXISTING GROUND CONTOURS (FROM LIDAR MAPPING)
- ROAD ALLOWANCE
- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

Revision	By	Appd.	YY.MM.DD
A PCS SUBMISSION	RCL	MPG	17.08.16

File Name: PCS C200-C215_133560100-Ents.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	RCL	MPG	RCL	17.08.15

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title

TEMPORARY ENTRANCE LAYOUT
SOUTH SHORE ROAD
ENTRANCE FOR TURBINES S02, S27, & S37

Project No. 133560100

Scale 1:250H 0 2.5 7.5 12.5m / 1:125V 0 1.25 3.75 6.25m

Drawing No. PCS C211a-Ent

Sheet 1 of 1

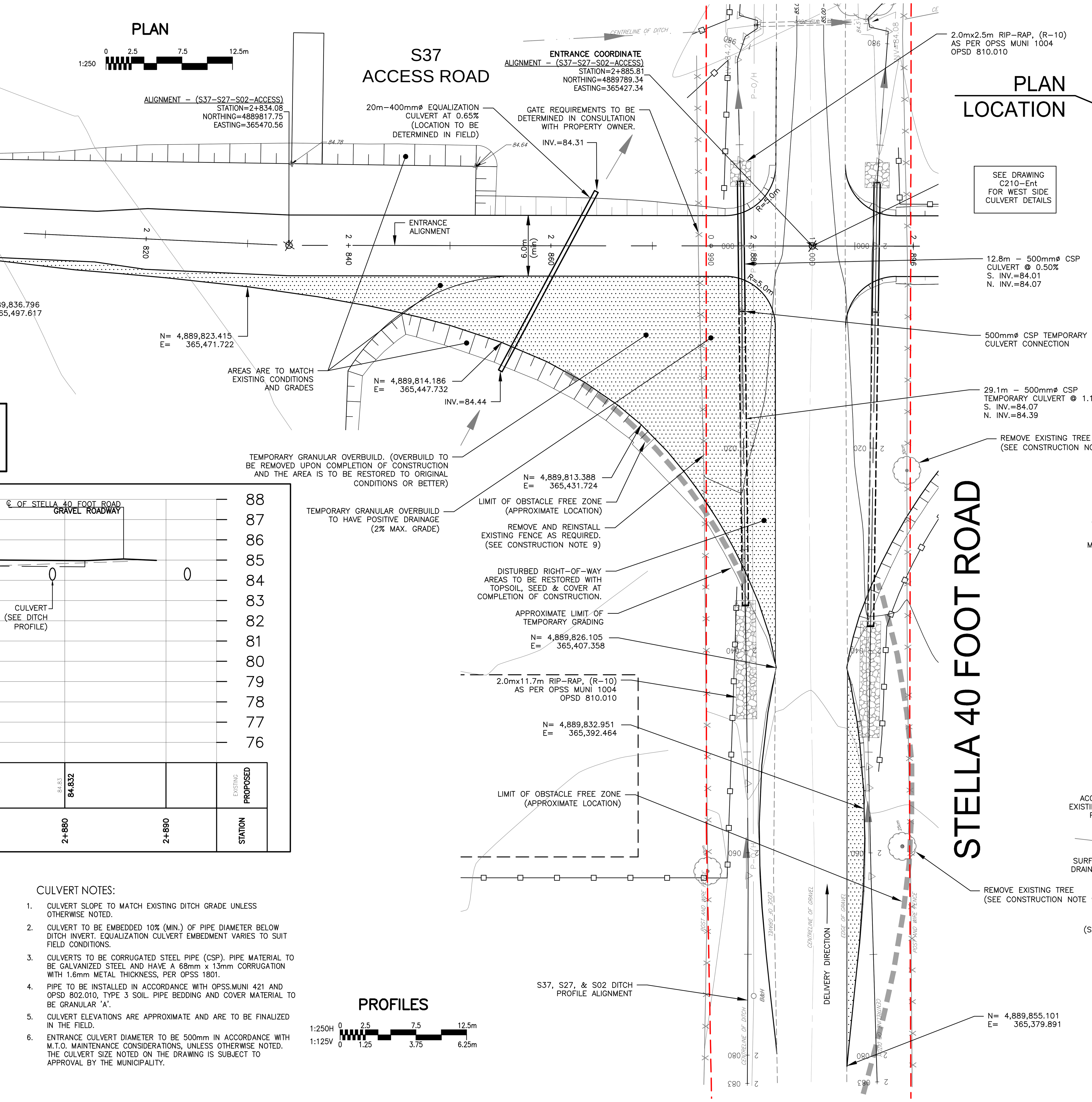
Revision A

ORIGINAL SHEET - ARCH D

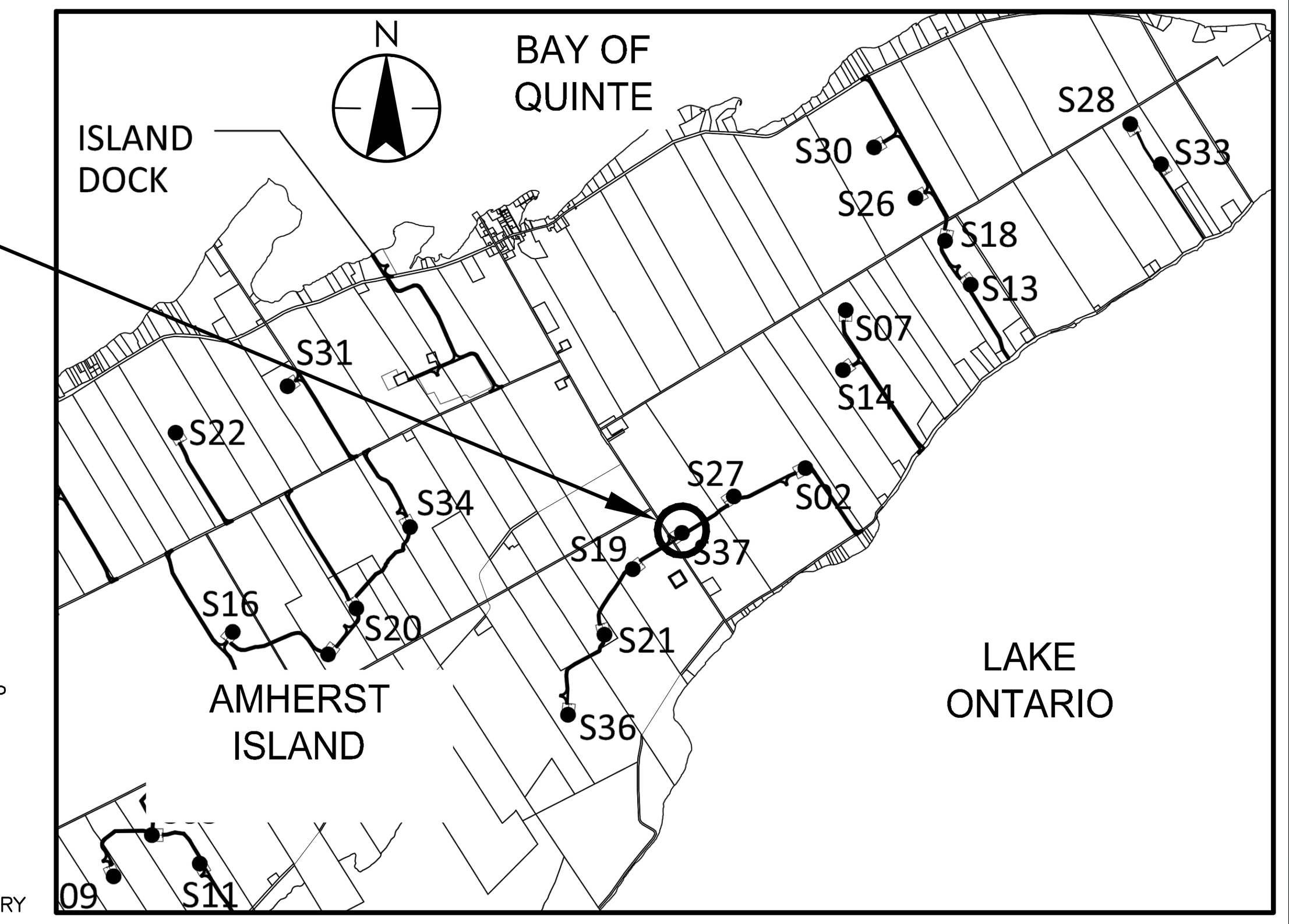
SEE DRAWING C211
FOR ADDITIONAL
ACCESS ROAD DETAILS

CONTRACTOR TO MAINTAIN
EXISTING DRAINAGE FLOWS
AS REQUIRED

PLAN

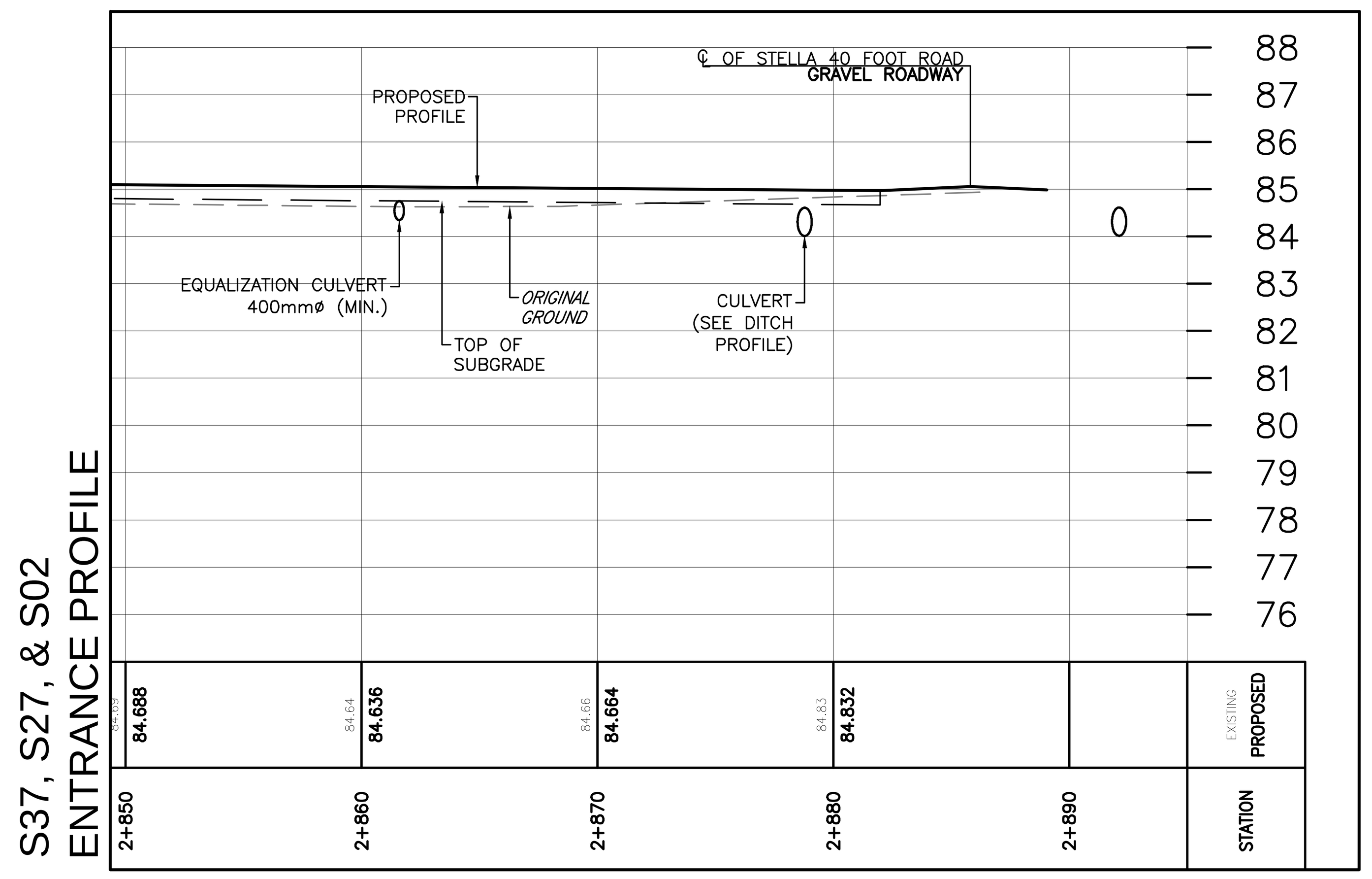


PLAN LOCATION

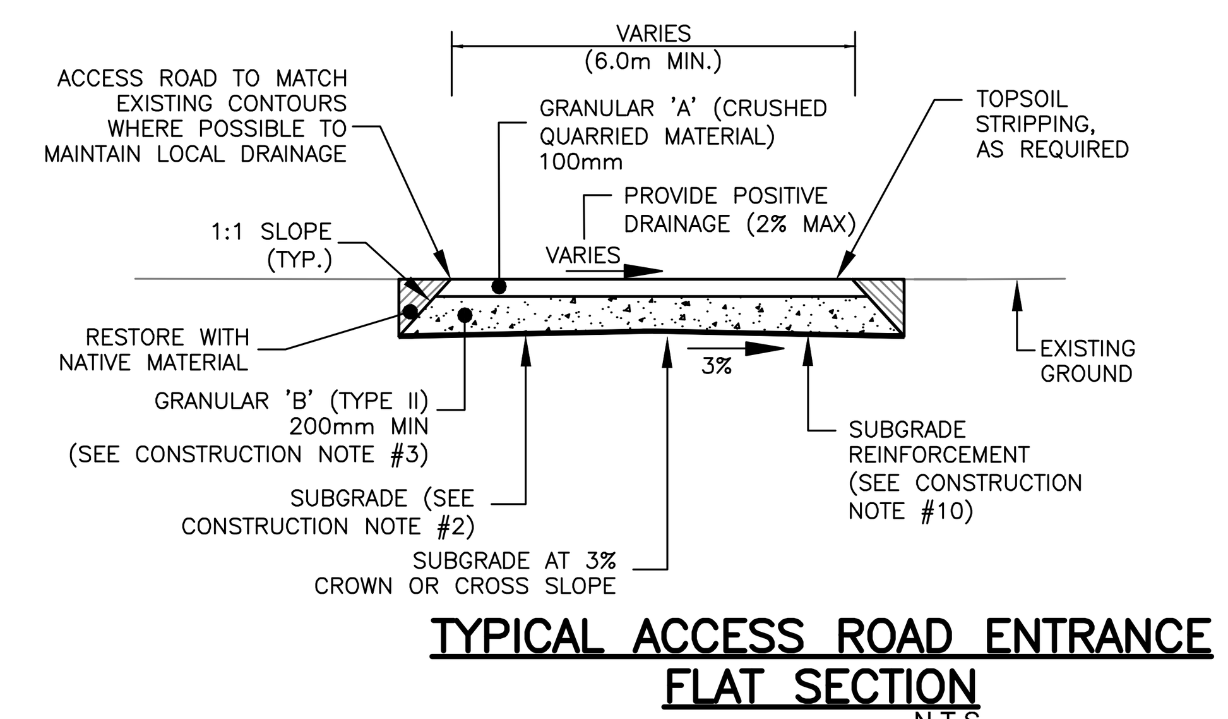


KEY PLAN
N.T.S

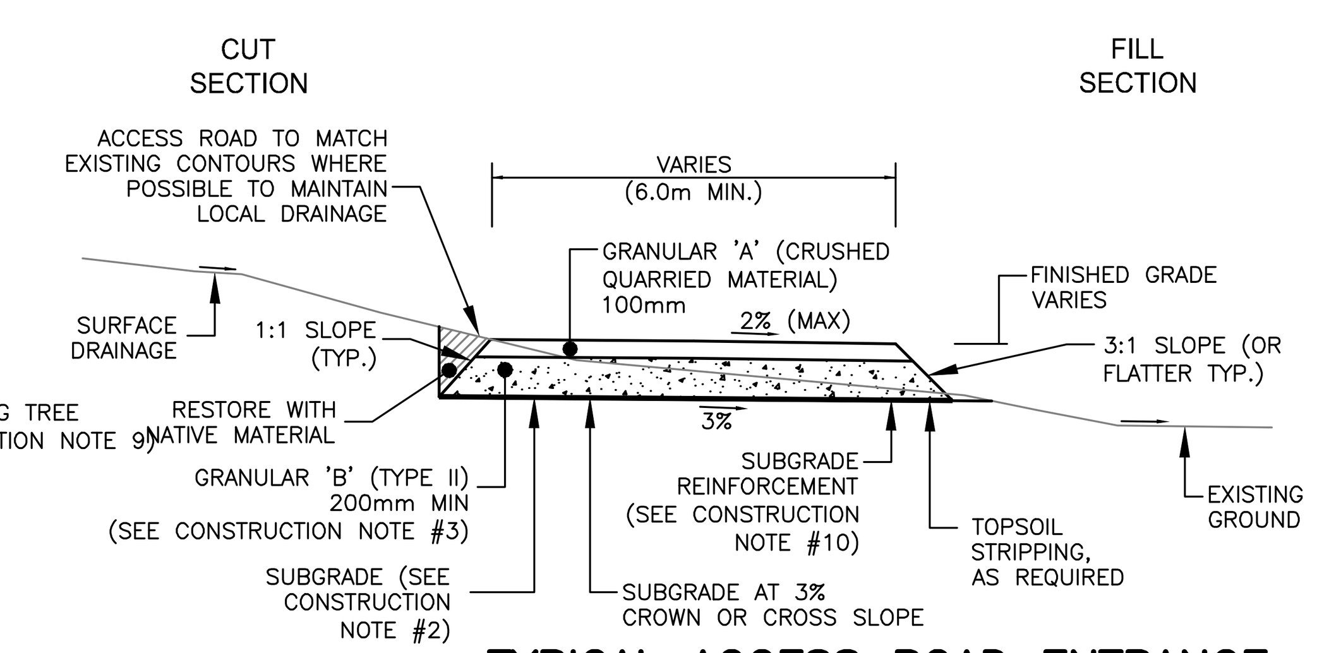
SEE DRAWING C210–Ent
FOR WEST SIDE
CULVERT DETAILS



S37, S27, & S02
ENTRANCE PROFILE



TYPICAL ACCESS ROAD ENTRANCE
FLAT SECTION
N.T.S



TYPICAL ACCESS ROAD ENTRANCE
CUT/FILL SECTION
N.T.S

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES TO CONFORM TO THE EROSION AND SEDIMENT CONTROL PLAN AND THE STORMWATER MANAGEMENT PLAN.
2. EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE DRAWINGS IS TO BE USED AS A MINIMUM. THE CONTRACTOR MUST MAKE THEIR OWN ASSESSMENT OF THE ENVIRONMENTAL CONTROLS AND MEASURES REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE RENEWABLE ENERGY APPROVAL COMPLETED FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
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4. SILT FENCE INSTALLATION MUST OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION, AS PER REA CONDITION H3(4).

CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED.
2. CULVERT TO BE EMBEDDED 10% (MIN.) OF PIPE DIAMETER BELOW DITCH INVERT. EQUALIZATION CULVERT EMBEDMENT VARIES TO SUIT FIELD CONDITIONS.
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, PER OPSS 1801.
4. PIPE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 421 AND OPSD 802.010, TYPE 3 SOIL. PIPE BEDDING AND COVER MATERIAL TO BE GRANULAR 'A'.
5. CULVERT ELEVATIONS ARE APPROXIMATE AND ARE TO BE FINALIZED IN THE FIELD.
6. ENTRANCE CULVERT DIAMETER TO BE 500mm IN ACCORDANCE WITH M.T.O. MAINTENANCE CONSIDERATIONS, UNLESS OTHERWISE NOTED. THE CULVERT SIZE NOTED ON THE DRAWING IS SUBJECT TO APPROVAL BY THE MUNICIPALITY.

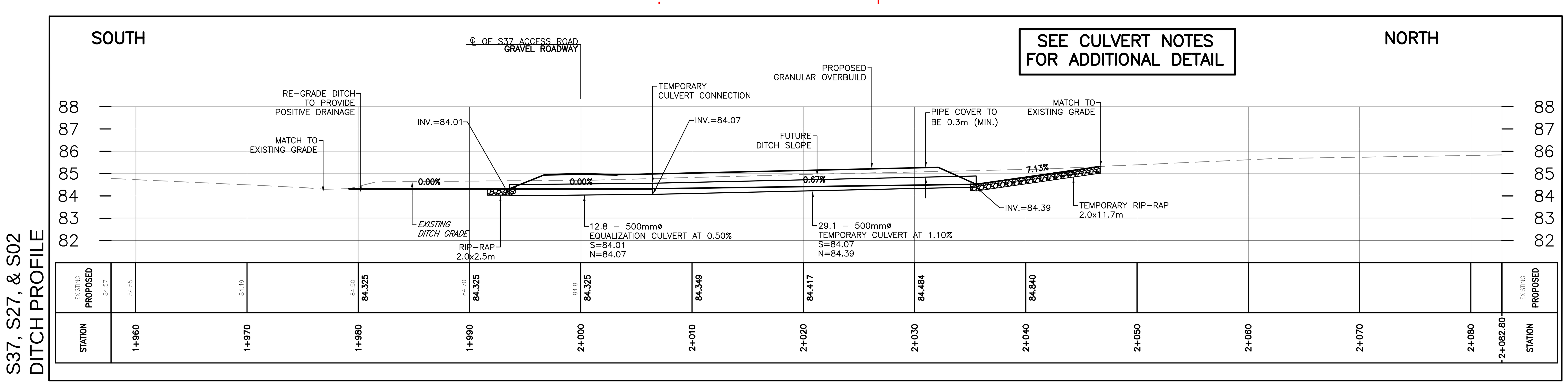
PROFILES

1:250H 0 2.5 7.5 12.5m
1:125V 0 1.25 3.75 6.25m

CONSTRUCTION NOTES

1. ACCESS ROAD AREAS TO BE STRIPPED OF TOPSOIL WITHIN GRADING LIMITS. TOPSOIL TO BE WINDROWED ALONG ACCESS ROAD. PROVIDE WINDROW OPENINGS TO ENSURE POSITIVE DRAINAGE IS MAINTAINED WITHIN CONSTRUCTIBLE AREA AND APPLICABLE SILT FENCES.
2. PRIOR TO GRANULAR PLACEMENT, SUBGRADE TO BE PROOF–ROLLED AND WET/UNSTABLE AREAS REMOVED AND REPLACED WITH ADDITIONAL SUITABLE SUB–BASE MATERIAL, AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR DESIGNATE.
3. GRANULAR 'B' SUB–BASE THICKNESS TO BE ADJUSTED TO SUIT LOCAL CONDITIONS.
4. ENTRANCE SIDE SLOPES TO BE 3:1 UNLESS OTHERWISE NOTED ON PLAN DRAWINGS.
5. COMPACTION REQUIREMENTS:
   SUBGRADE – 95% STANDARD PROCTOR DENSITY
   GRANULARS – 98% STANDARD PROCTOR DENSITY
6. CLEARING AND GRUBBING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 201.
7. EARTH EXCAVATION/GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 206.
8. GRANULAR MATERIALS TO BE IN ACCORDANCE WITH OPSS 1010.
9. THE REQUIREMENTS FOR THE REMOVAL, REINSTALLATION AND/OR DISPOSAL OF EXISTING FEATURES IN CONFLICT WITH THE CONSTRUCTION AREA WILL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION WITH THE PROPERTY OWNER.
10. SUBGRADE REINFORCEMENT TO BE TERRAFIX COMBIGRID (PRODUCT 30/30 Q1 151 GRK3) PLACED ON SUBGRADE OVER ENTIRE ACCESS ROAD.

SEE CULVERT NOTES
FOR ADDITIONAL DETAIL



S37, S27, & S02
DITCH PROFILE

Stantec

Stantec Consulting Ltd.
100-300 Hagey Boulevard
Waterloo ON Canada
Tel. 519.579.4410
www.stantec.com

General Notes

1. UNDER GROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS AND WHERE SHOWN, THE ACCURACY OF POSITION IS NOT GUARANTEED. THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL UTILITY PLANTS PRIOR TO STARTING WORK.
2. UTILITY AND OTHER CONFLICTS HAVE NOT BEEN ADDRESSED IN THESE DRAWINGS, AND WILL BE RESOLVED IN THE FIELD USING VERIFIED UTILITY LOCATIONS AND OTHER SITE INFORMATION. CONSULT WITH WINDLECTRIC TO DETERMINE ANY OTHER LANDOWNER UNDERGROUND SERVICES THAT MAY BE AFFECTED BY THE ROAD CONSTRUCTION.
3. TOPOGRAPHICAL SURVEY COMPLETED BY McINTOSH PERRY CONSULTING ENGINEERS, DATED 2015. (UTM ZONE 18 NAD83 (CRSR) 1997.0)
4. ENTRANCE RADII AS NOTED TO BE PROVIDED FROM EDGE OF PAVEMENT OR GRAVEL AS SHOWN ON PLAN DRAWING. RADIUS MODIFICATIONS MAY BE REQUIRED SUBJECT TO REVIEW OF ENTRANCE SKEW ANGLE AND VEHICLE ACCESS REQUIREMENTS.
5. NOTED DELIVERY ROUTE DIRECTION IS IN ACCORDANCE WITH WINDLECTRIC INC'S TRAFFIC MANAGEMENT PLAN.
6. CONTRACTOR TO ADHERE TO ALL CONSERVATION AUTHORITY PERMITS AND CONDITIONS OF APPROVAL.
7. RIGHT OF WAY LIMITS ARE IN ACCORDANCE WITH INFORMATION PROVIDED BY McINTOSH PERRY CONSULTING ENGINEERS, AND COMPLY WITH ALL OTHER PERMITS ASSOCIATED WITH THE WORKS AND REA COMMITMENTS.

Legend

——▶	EXISTING OVERLAND FLOW/DITCH DIRECTION
–·▶	PROPOSED DITCH FLOW
218.5	EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
~~	EXISTING GROUND CONTOURS (FROM LIDAR MAPPING)
— —	ROAD ALLOWANCE
–□–	PROPOSED SILT FENCING
⋯	TEMPORARY OVERBUILD AREA

Revision	By	Appd.	YY.MM.DD
A PCS SUBMISSION	RCL	MPG	17.08.16

File Name: PCS C200-C215_133560100-Ents.dwg	RCL	MPG	RCL	17.08.15
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

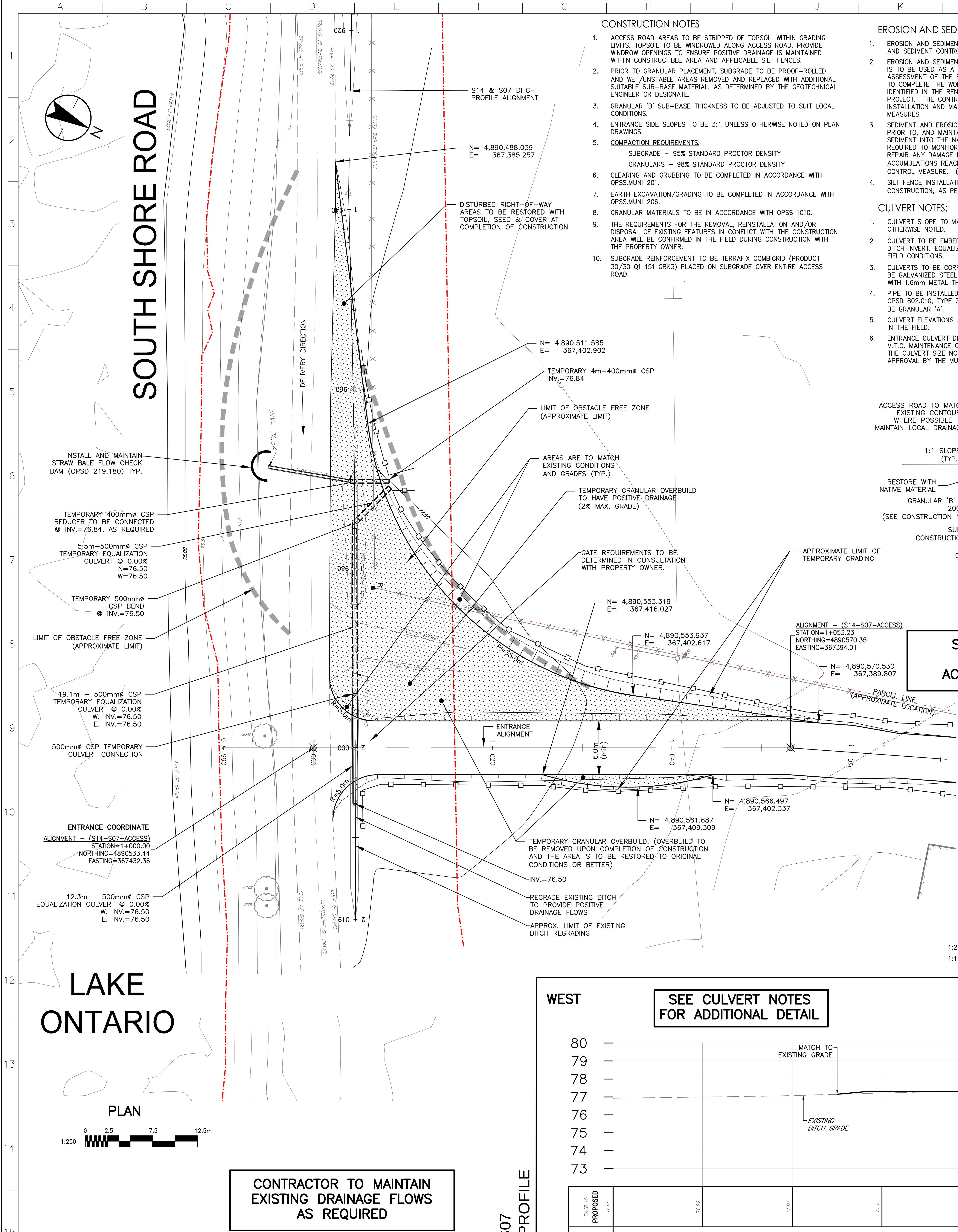
Permit-Seal

Client/Project
PENNECON HEAVY CIVIL
AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title
TEMPORARY ENTRANCE LAYOUT
STELLA 40 FOOT ROAD
ENTRANCE FOR TURBINES S02 S27, & S37

Project No. 133560100
Scale 1:250H 0 2.5 7.5 12.5m; 1:125V 0 1.25 3.75 6.25m

Drawing No. PCS C211-Ent | Sheet 1 of 1 | Revision A



CONSTRUCTION NOTES

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3. GRANULAR 'B' SUB–BASE THICKNESS TO BE ADJUSTED TO SUIT LOCAL CONDITIONS.
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CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED.
2. CULVERT TO BE EMBEDDED 10% (MIN.) OF PIPE DIAMETER BELOW DITCH INVERT. EQUALIZATION CULVERT EMBEDMENT VARIES TO SUIT FIELD CONDITIONS.
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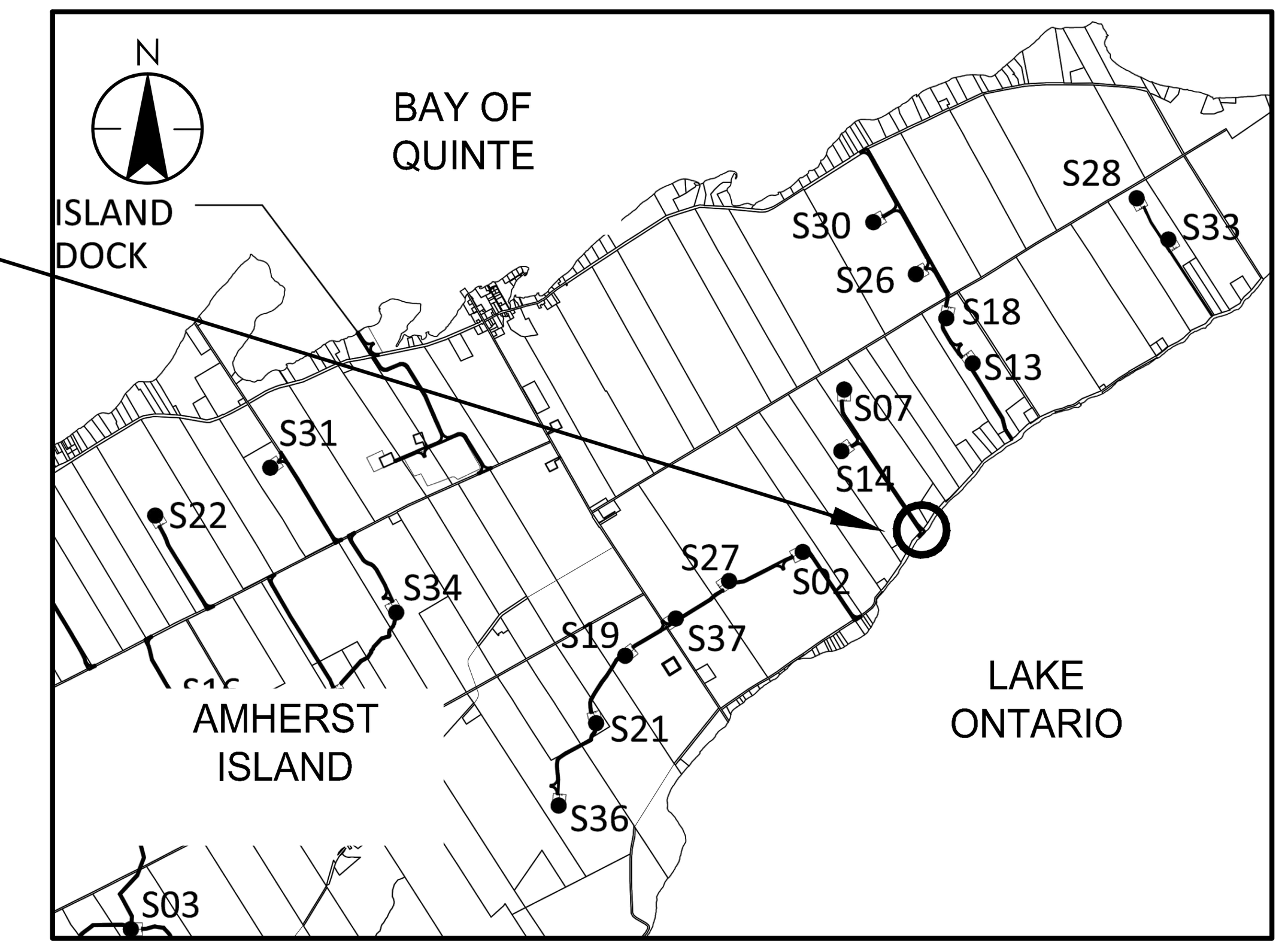
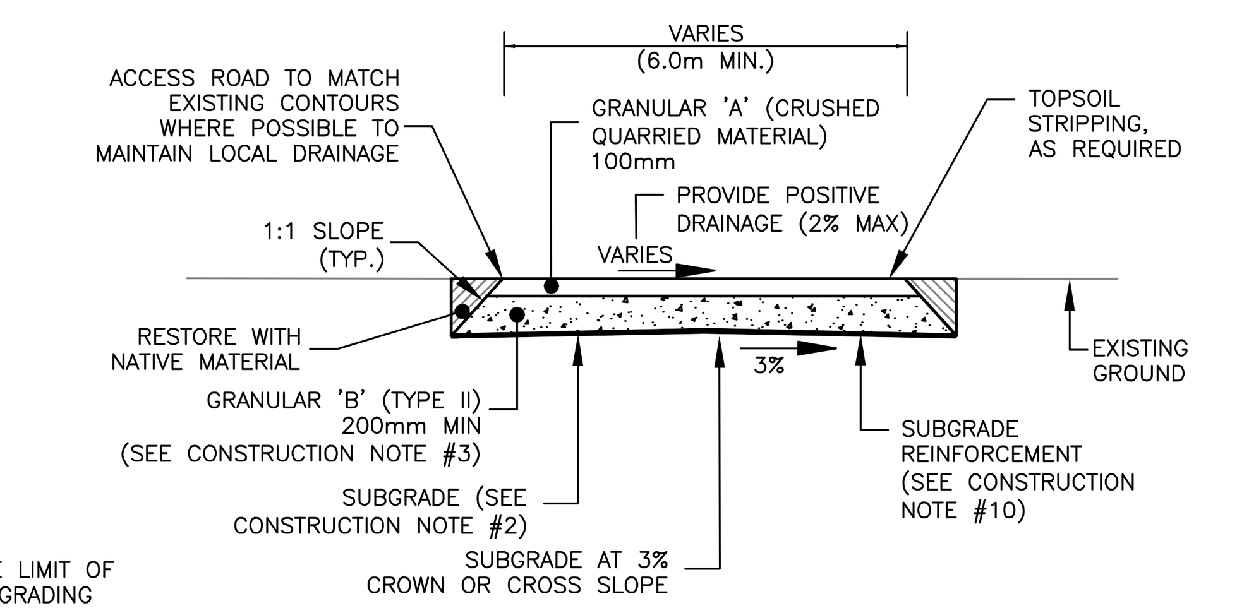
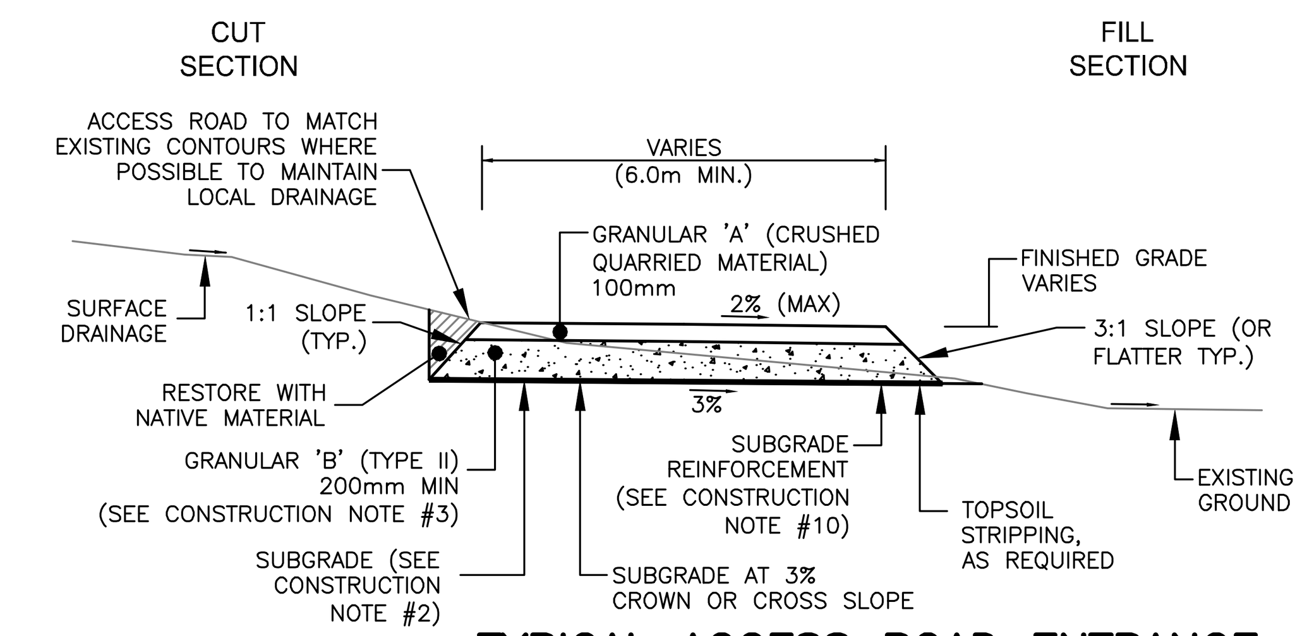
PLAN LOCATION



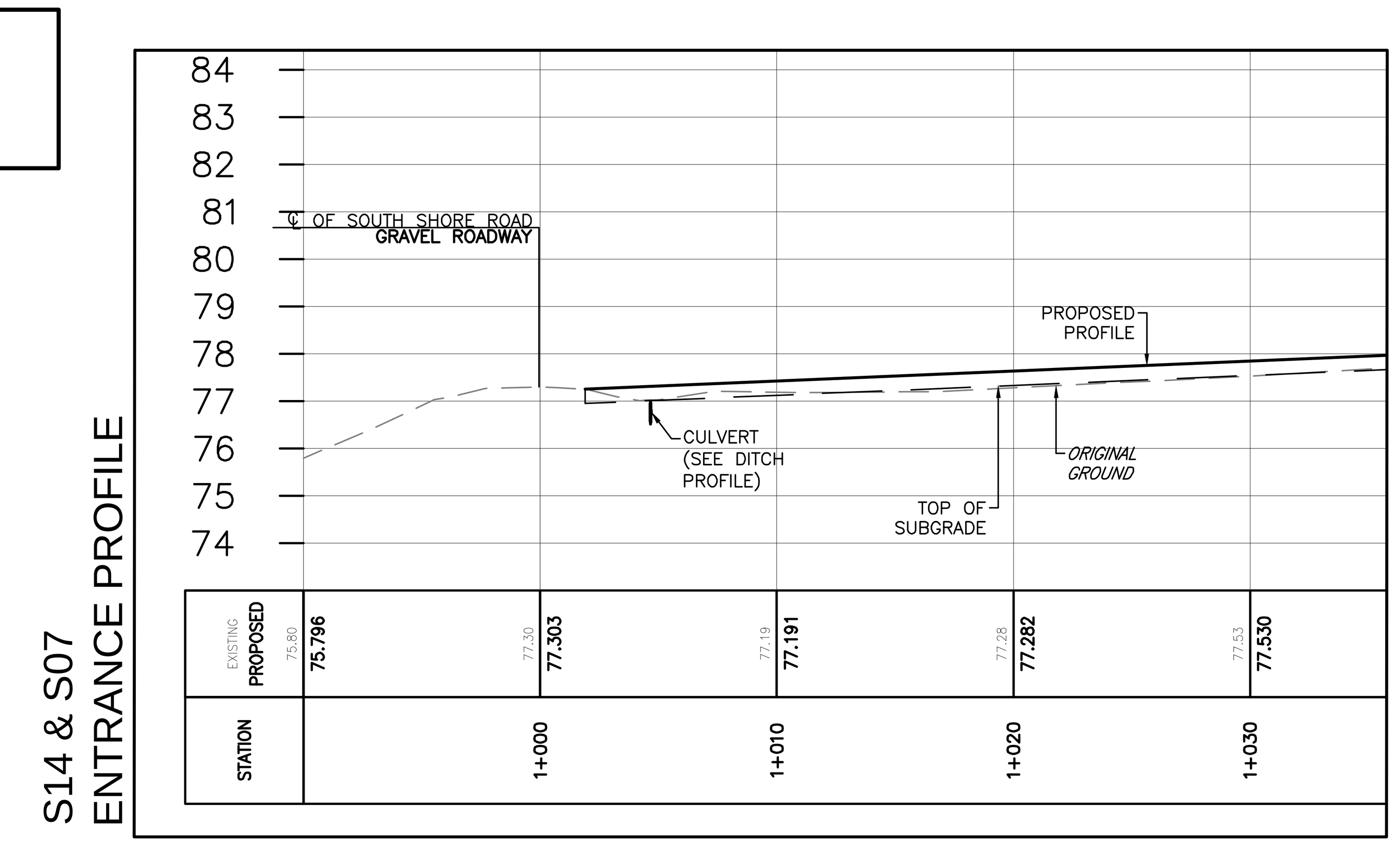
KEY PLAN
N.T.S



TYPICAL ACCESS ROAD ENTRANCE
FLAT SECTION
N.T.S

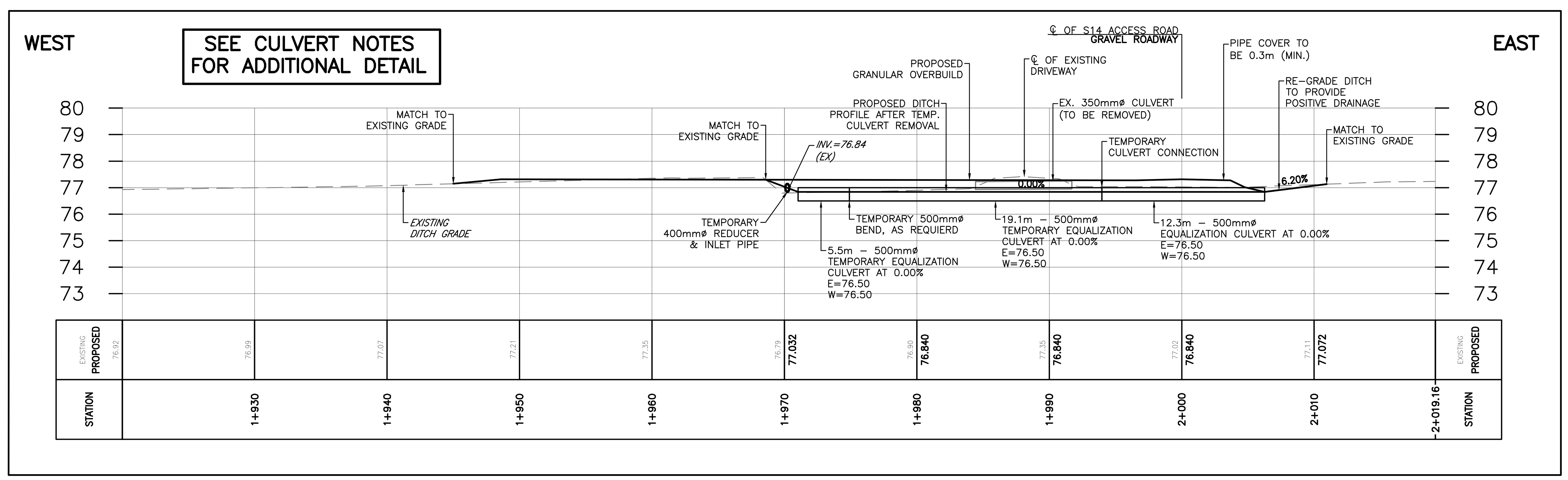


TYPICAL ACCESS ROAD ENTRANCE
CUT/FILL SECTION
N.T.S



S14 & S07 ENTRANCE PROFILE

PROFILES
1:250H
1:125V



S14 & S07 DITCH PROFILE

General Notes

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Legend

- EXISTING OVERLAND FLOW/DITCH DIRECTION
- PROPOSED DITCH FLOW
- EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
- EXISTING GROUND CONTOURS (FROM LIDAR MAPPING)
- ROAD ALLOWANCE
- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

A PCS SUBMISSION	RCL	MPG	17.08.16
Revision	By	Appd.	YY.MM.DD

File Name: PCS C200-C215_133560100-Ents.dwg	RCL	MPG	RCL	17.08.15
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

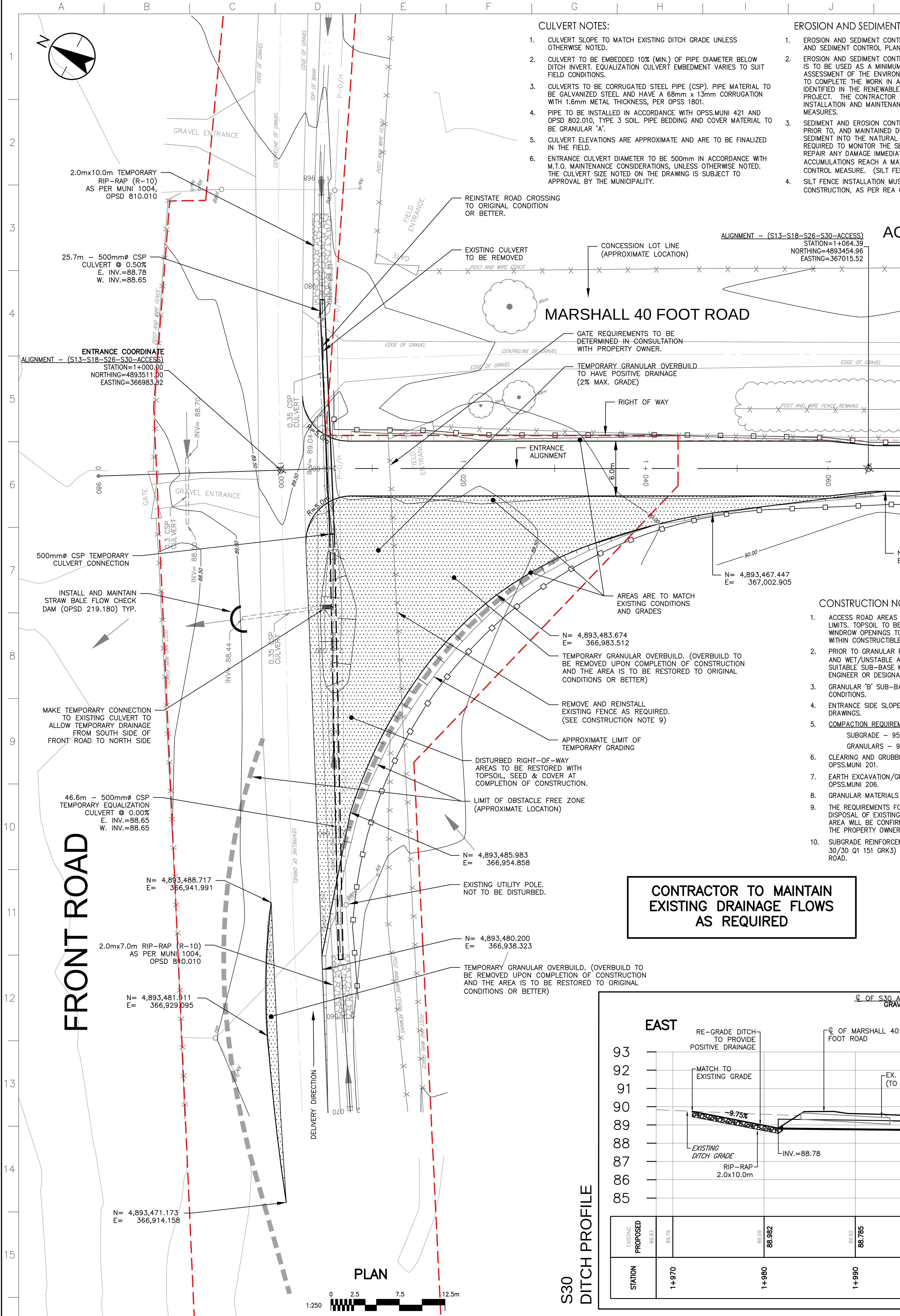
Title

TEMPORARY ENTRANCE LAYOUT
SOUTH SHORE ROAD
ENTRANCE FOR TURBINES S07, & S14

Project No. 133560100
Scale 1:250H 1:125V

Drawing No. PCS C212-Ent
Sheet 1 of 1
Revision A

ORIGINAL SHEET - ARCH D



CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED.
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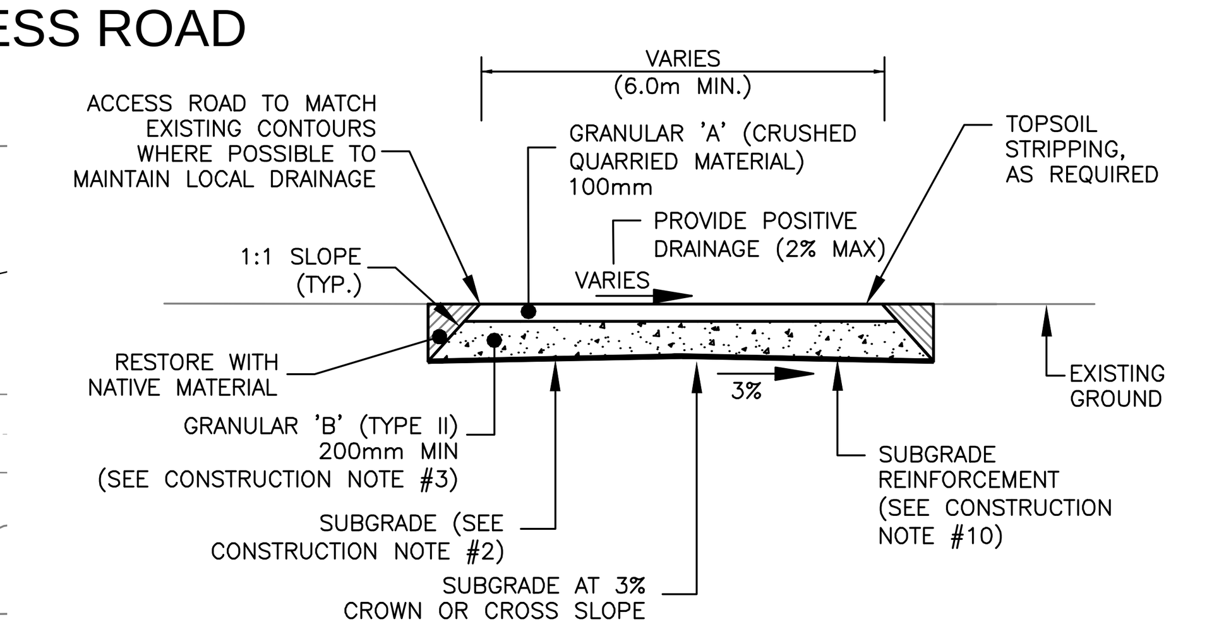
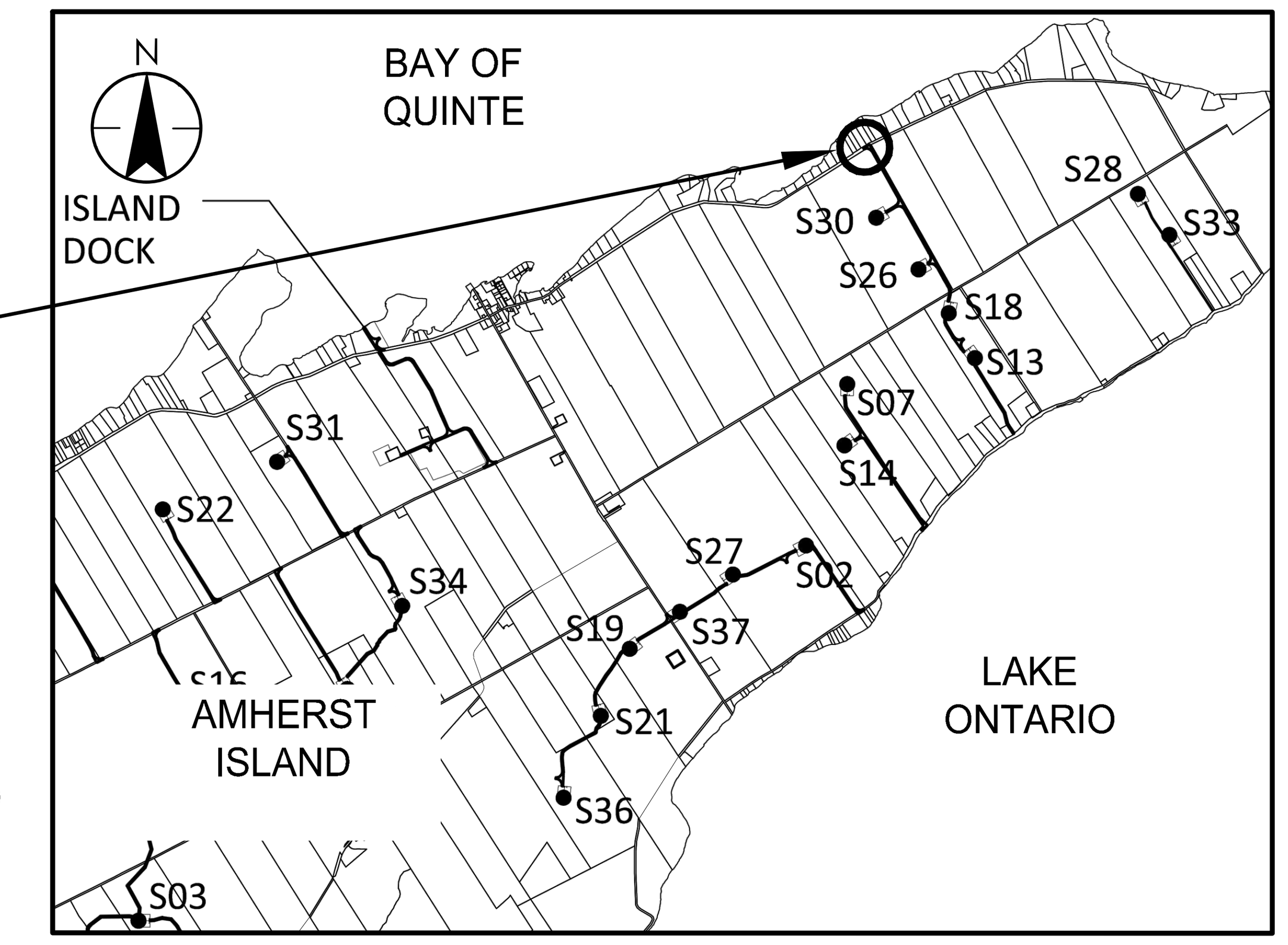
S30 ACCESS ROAD

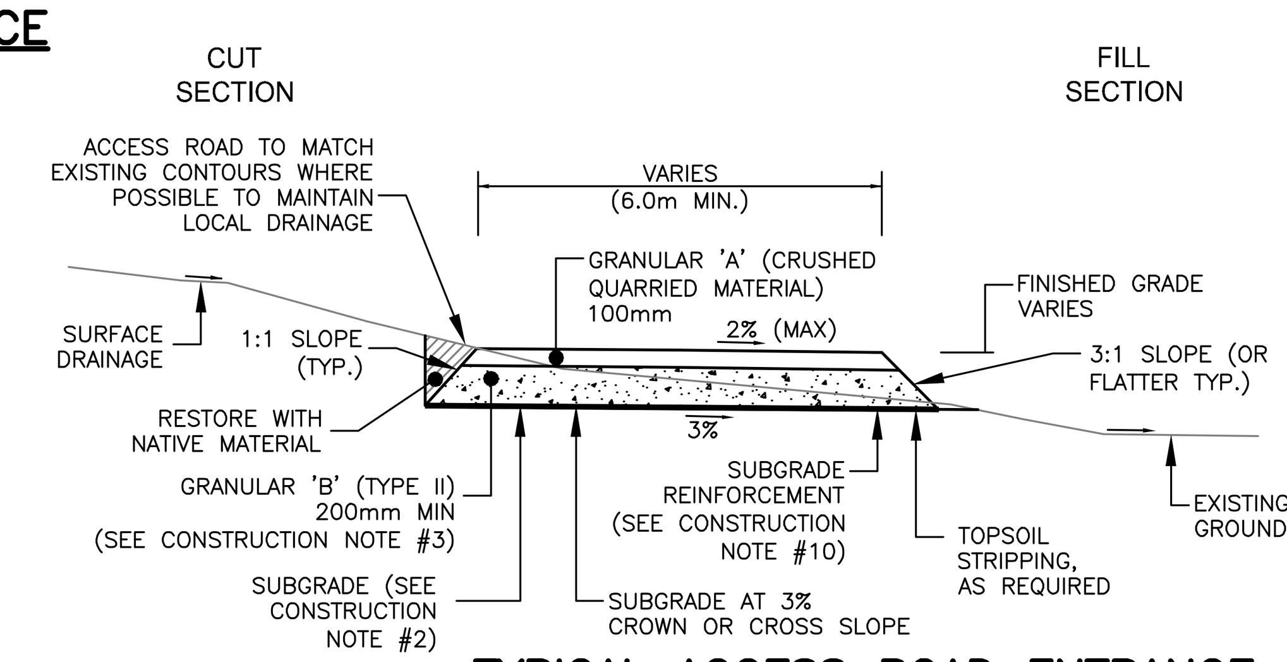


TYPICAL ACCESS ROAD ENTRANCE FLAT SECTION
N.T.S

SEE DRAWING C213 FOR ADDITIONAL ACCESS ROAD DETAILS



KEY PLAN
N.T.S



TYPICAL ACCESS ROAD ENTRANCE CUT/FILL SECTION
N.T.S

CONSTRUCTION NOTES

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2. PRIOR TO GRANULAR PLACEMENT, SUBGRADE TO BE PROOF-ROLLED AND WET/UNSTABLE AREAS REMOVED AND REPLACED WITH ADDITIONAL SUITABLE SUB-BASE MATERIAL, AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR DESIGNATE.
3. GRANULAR 'B' SUB-BASE THICKNESS TO BE ADJUSTED TO SUIT LOCAL CONDITIONS.
4. ENTRANCE SIDE SLOPES TO BE 3:1 UNLESS OTHERWISE NOTED ON PLAN DRAWINGS.
5. COMPACTION REQUIREMENTS:
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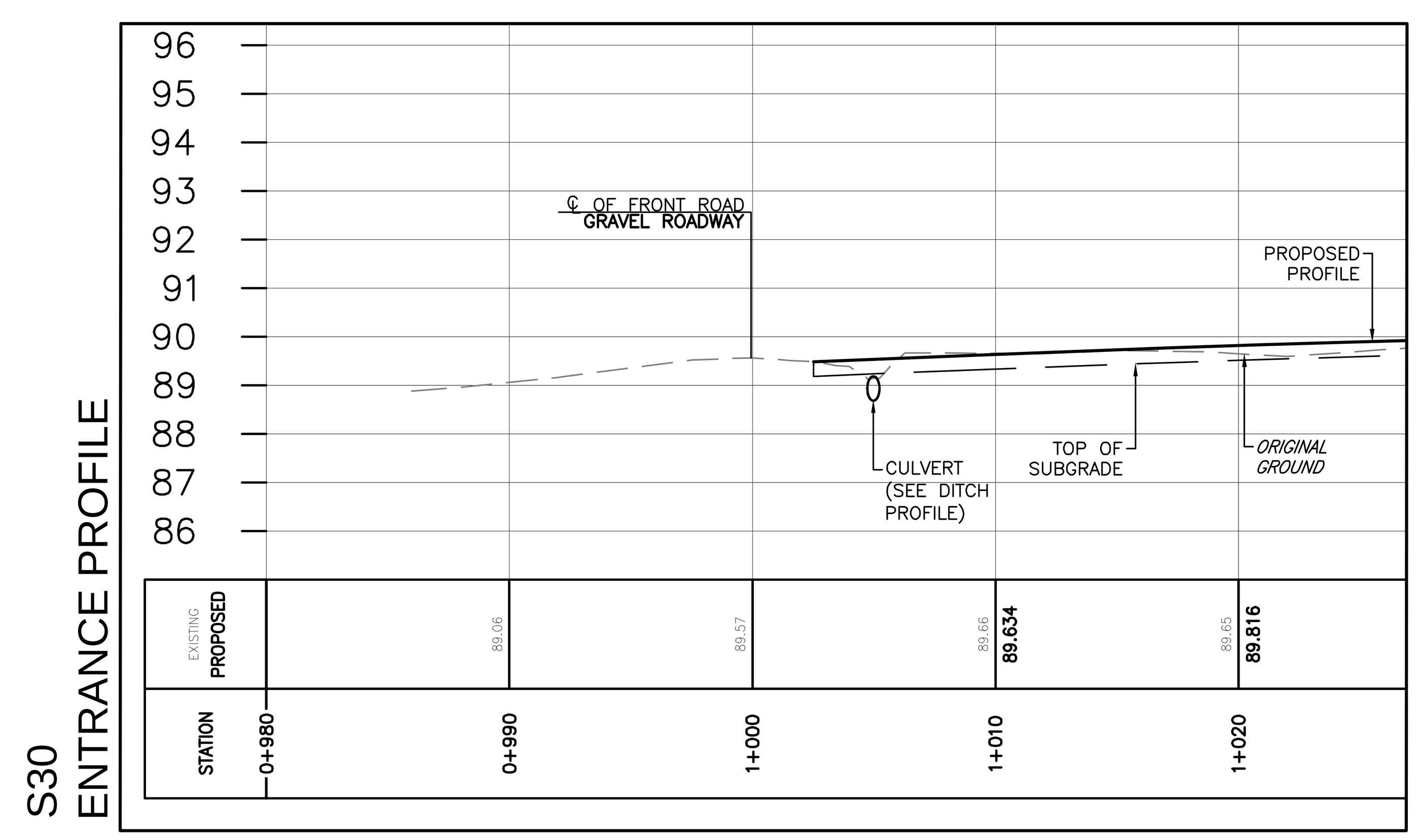
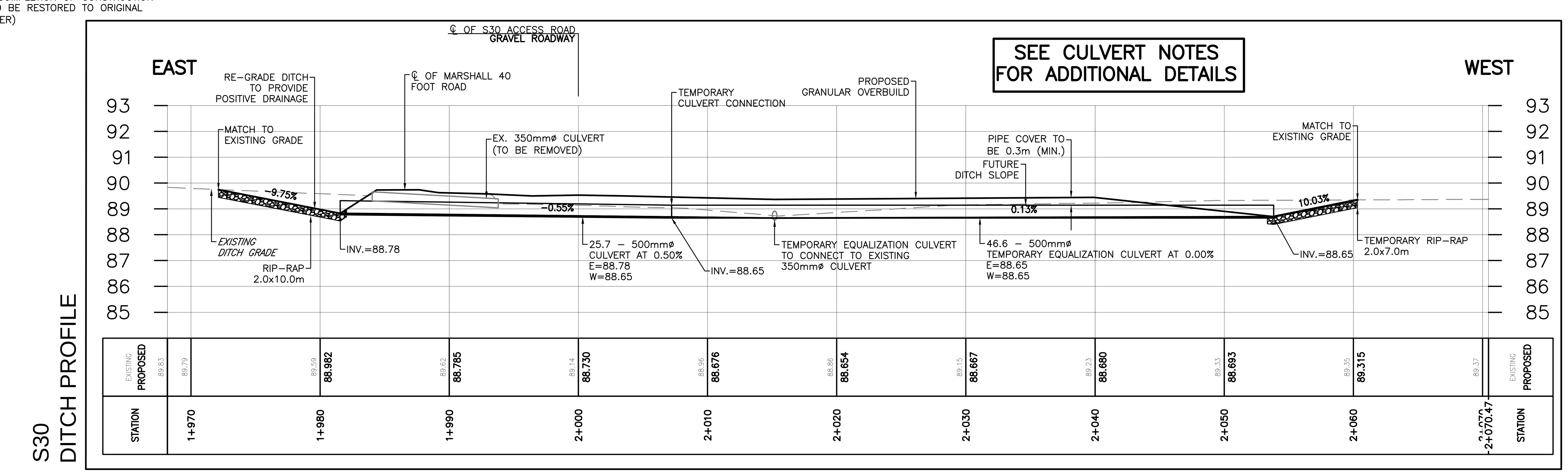
10. SUBGRADE REINFORCEMENT TO BE TERRAFIX COMBIGRID (PRODUCT 30/30 Q1 151 GRK3) PLACED ON SUBGRADE OVER ENTIRE ACCESS ROAD.

CONTRACTOR TO MAINTAIN EXISTING DRAINAGE FLOWS AS REQUIRED

PROFILES
1:250H 1:125V



SEE CULVERT NOTES FOR ADDITIONAL DETAILS



Stantec

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Tel. 519.579.4410
www.stantec.com

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- EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
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- ROAD ALLOWANCE
- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

Revision	By	Appd.	YY.MM.DD
A PCS SUBMISSION	RCL	MPG	17.08.16

File Name: PCS C200-C215_133560100-Ents.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	RCL	MPG	RCL	17.08.15

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

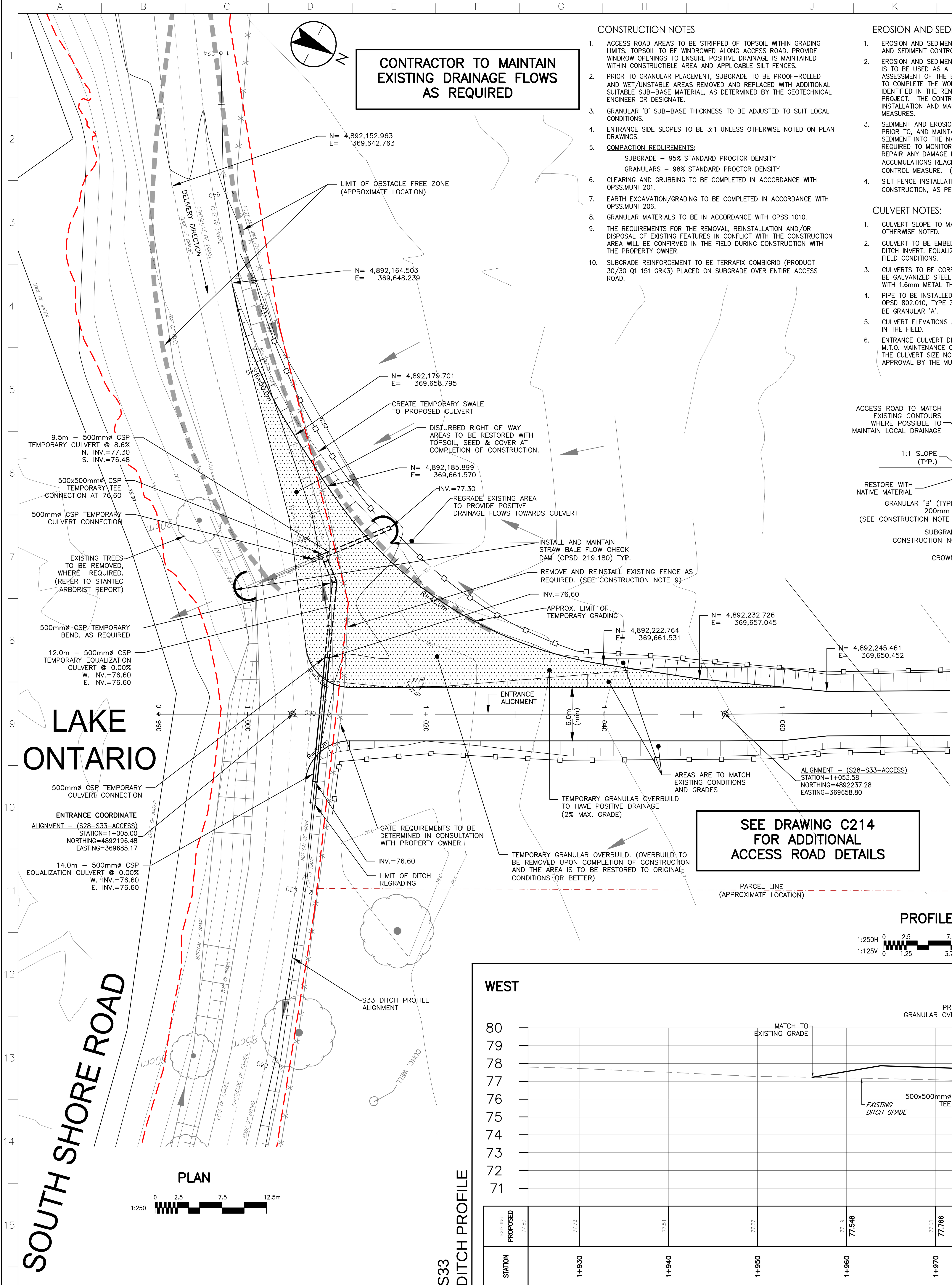
AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title

TEMPORARY ENTRANCE LAYOUT
FRONT ROAD
ENTRANCE FOR TURBINES S30, S26, S18, & S13

Project No.	Scale	
133560100	1:250H 1:125V	
Drawing No.	**Sheet**	**Revision**
PCS C213-Ent	1 of 1	A

ORIGINAL SHEET - ARCH D



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7. EARTH EXCAVATION/GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 206.
8. GRANULAR MATERIALS TO BE IN ACCORDANCE WITH OPSS 1010.
9. THE REQUIREMENTS FOR THE REMOVAL, REINSTALLATION AND/OR DISPOSAL OF EXISTING FEATURES IN CONFLICT WITH THE CONSTRUCTION AREA WILL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION WITH THE PROPERTY OWNER.
10. SUBGRADE REINFORCEMENT TO BE TERRAFIX COMBIGRID (PRODUCT 30/30 Q1 151 GRK3) PLACED ON SUBGRADE OVER ENTIRE ACCESS ROAD.

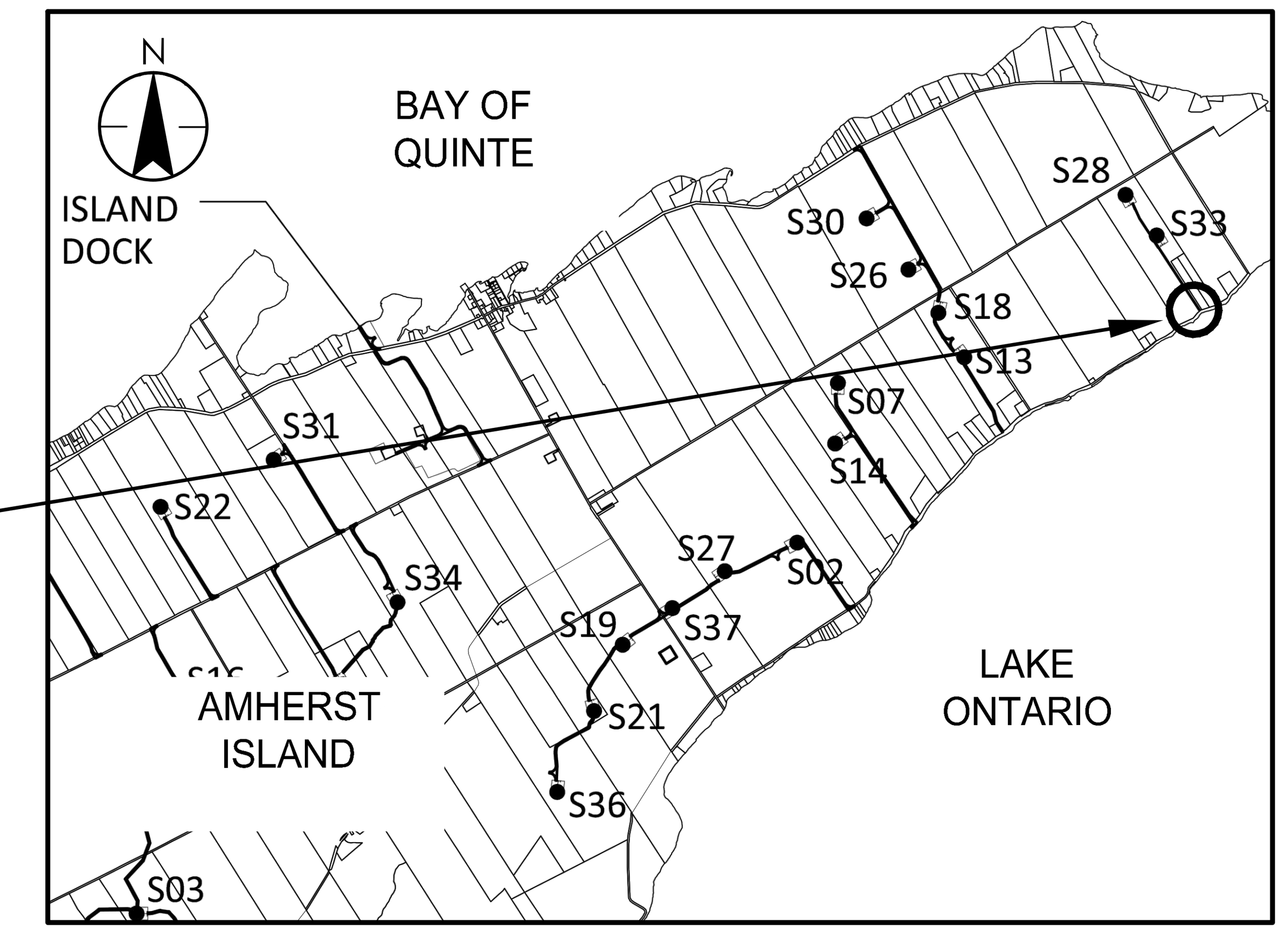
EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES TO CONFORM TO THE EROSION AND SEDIMENT CONTROL PLAN AND THE STORMWATER MANAGEMENT PLAN.
2. EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE DRAWINGS IS TO BE USED AS A MINIMUM. THE CONTRACTOR MUST MAKE THEIR OWN ASSESSMENT OF THE ENVIRONMENTAL CONTROLS AND MEASURES REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE RENEWABLE ENERGY APPROVAL COMPLETED FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
3. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION TO PREVENT ENTRY OF SEDIMENT INTO THE NATURAL ENVIRONMENT. THE CONTRACTOR WILL BE REQUIRED TO MONITOR THE SEDIMENT CONTROL MEASURES REGULARLY AND REPAIR ANY DAMAGE IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE EROSION CONTROL MEASURE. (SILT FENCE, STRAW BALE, ETC.)
4. SILT FENCE INSTALLATION MUST OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION, AS PER REA CONDITION H3(4).

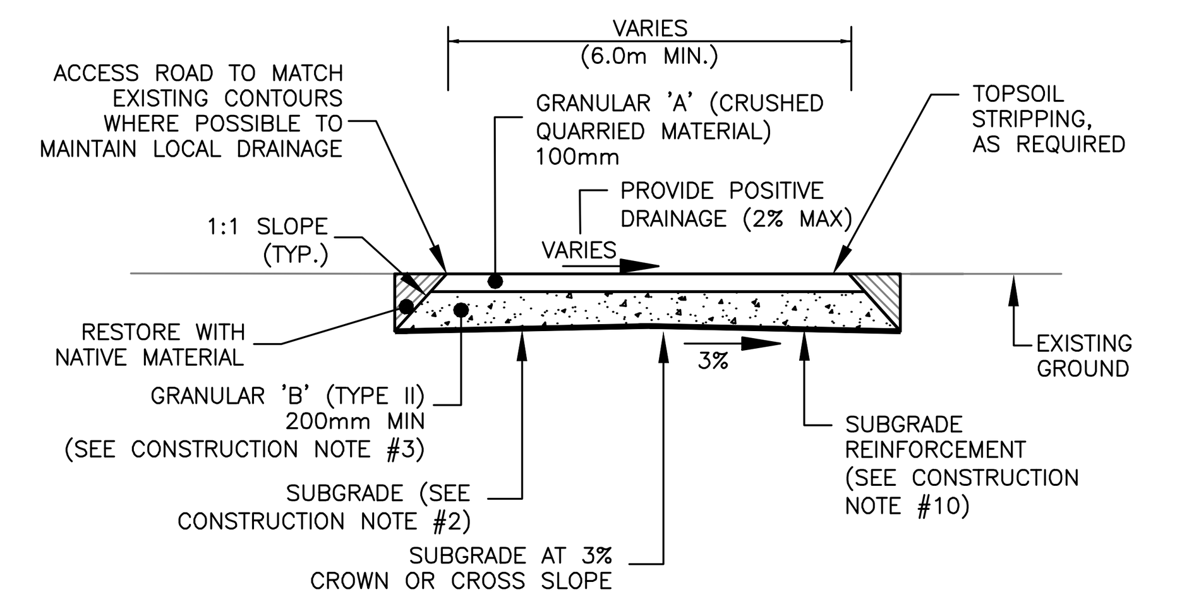
CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED.
2. CULVERT TO BE EMBEDDED 10% (MIN.) OF PIPE DIAMETER BELOW DITCH INVERT. EQUALIZATION CULVERT EMBEDMENT VARIES TO SUIT FIELD CONDITIONS.
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, PER OPSS 1801.
4. PIPE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 421 AND OPSD 802.010, TYPE 3 SOIL. PIPE BEDDING AND COVER MATERIAL TO BE GRANULAR 'A'.
5. CULVERT ELEVATIONS ARE APPROXIMATE AND ARE TO BE FINALIZED IN THE FIELD.
6. ENTRANCE CULVERT DIAMETER TO BE 500mm IN ACCORDANCE WITH M.T.O. MAINTENANCE CONSIDERATIONS, UNLESS OTHERWISE NOTED. THE CULVERT SIZE NOTED ON THE DRAWING IS SUBJECT TO APPROVAL BY THE MUNICIPALITY.

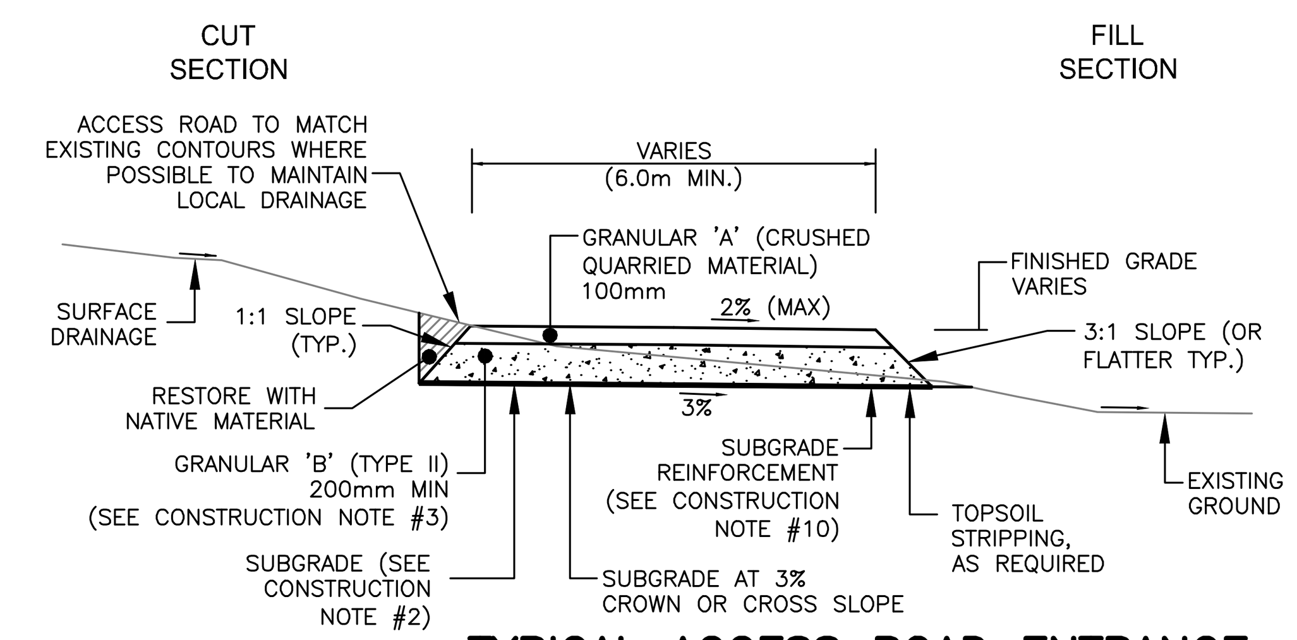
PLAN LOCATION



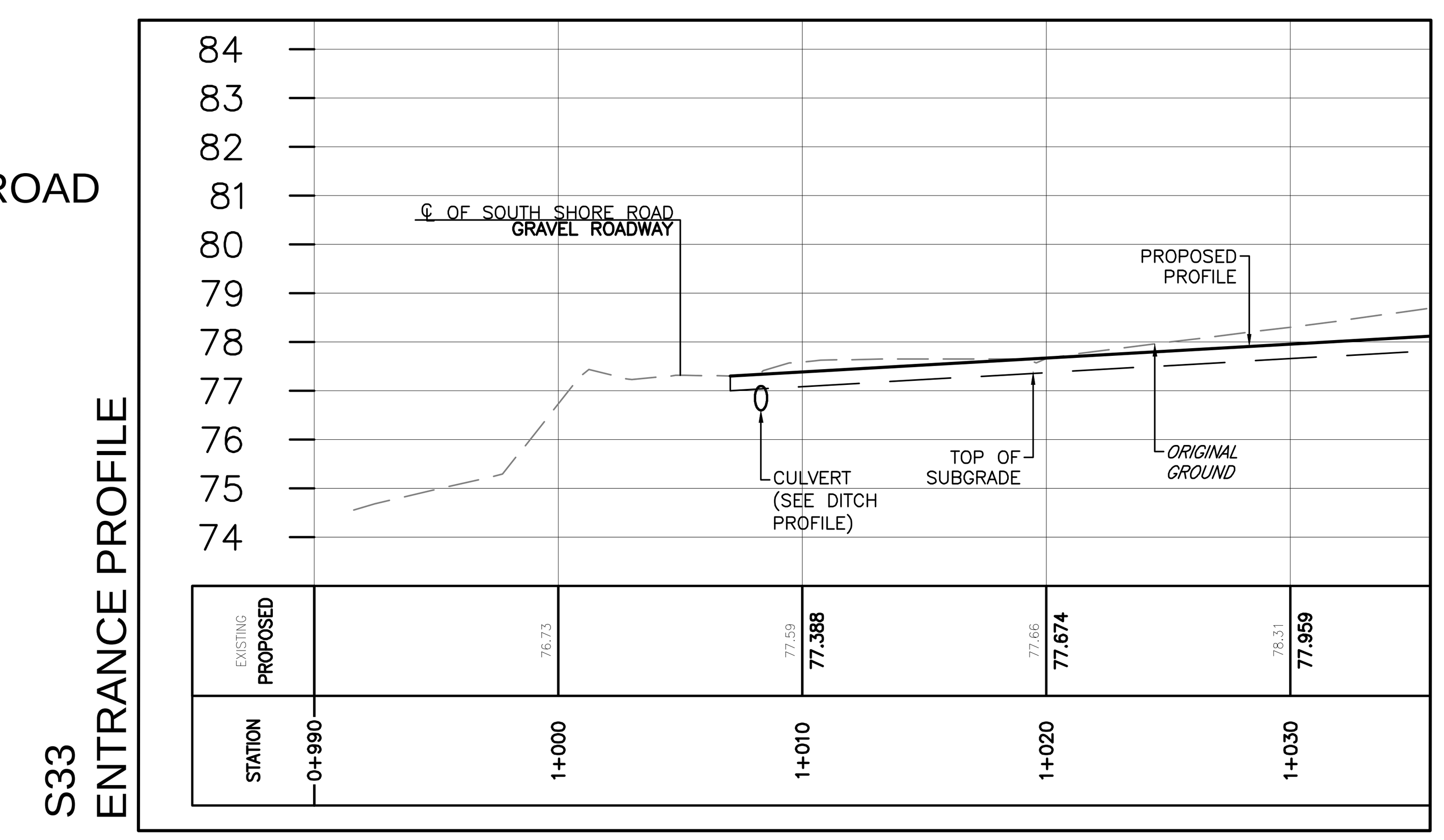
KEY PLAN
N.T.S



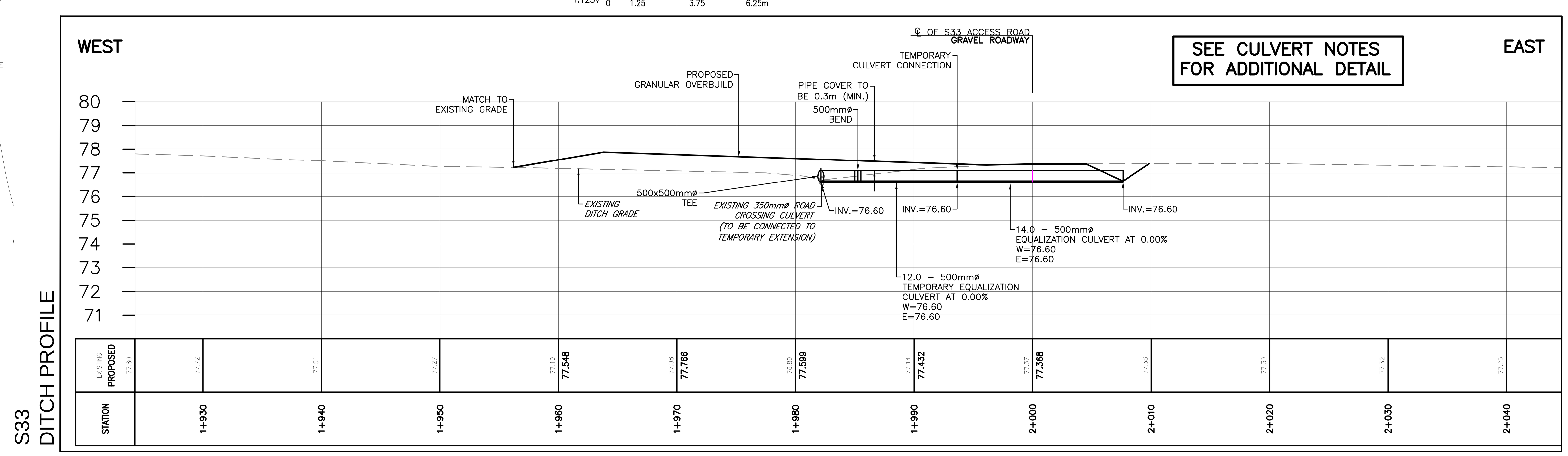
TYPICAL ACCESS ROAD ENTRANCE FLAT SECTION
N.T.S



TYPICAL ACCESS ROAD ENTRANCE CUT/FILL SECTION
N.T.S



PROFILES
1:250H 1:125V



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General Notes

1. UNDER GROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS AND WHERE SHOWN, THE ACCURACY OF POSITION IS NOT GUARANTEED. THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL UTILITY PLANTS PRIOR TO STARTING WORK.
2. UTILITY AND OTHER CONFLICTS HAVE NOT BEEN ADDRESSED IN THESE DRAWINGS, AND WILL BE RESOLVED IN THE FIELD USING VERIFIED UTILITY LOCATIONS AND OTHER SITE INFORMATION. CONSULT WITH WINDLECTRIC TO DETERMINE ANY OTHER LANDOWNER UNDERGROUND SERVICES THAT MAY BE AFFECTED BY THE ROAD CONSTRUCTION.
3. TOPOGRAPHICAL SURVEY COMPLETED BY McINTOSH PERRY CONSULTING ENGINEERS, DATED 2015. (UTM ZONE 18 NAD83 (CRSR) 1997.0)
4. ENTRANCE RADII AS NOTED TO BE PROVIDED FROM EDGE OF PAVEMENT OR GRAVEL AS SHOWN ON PLAN DRAWING. RADIUS MODIFICATIONS MAY BE REQUIRED SUBJECT TO REVIEW OF ENTRANCE SKEW ANGLE AND VEHICLE ACCESS REQUIREMENTS.
5. NOTED DELIVERY ROUTE DIRECTION IS IN ACCORDANCE WITH WINDLECTRIC INC'S TRAFFIC MANAGEMENT PLAN.
6. CONTRACTOR TO ADHERE TO ALL CONSERVATION AUTHORITY PERMITS AND CONDITIONS OF APPROVAL.
7. RIGHT OF WAY LIMITS ARE IN ACCORDANCE WITH INFORMATION PROVIDED BY McINTOSH PERRY CONSULTING ENGINEERS, AND COMPLY WITH ALL OTHER PERMITS ASSOCIATED WITH THE WORKS AND REA COMMITMENTS.

Legend

- EXISTING OVERLAND FLOW/DITCH DIRECTION
- PROPOSED DITCH FLOW
- EXISTING GROUND CONTOURS (AS PER NOTE 4 ABOVE)
- EXISTING GROUND CONTOURS (FROM LIDAR MAPPING)
- ROAD ALLOWANCE
- PROPOSED SILT FENCING
- TEMPORARY OVERBUILD AREA

Revision	By	Appd.	YY.MM.DD
A PCS SUBMISSION	RCL	MPG	17.08.16

File Name: PCS C200-C215_133560100-Ents.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	RCL	MPG	RCL	17.08.15

Permit-Seal

Client/Project

PENNECON HEAVY CIVIL

AMHERST ISLAND WIND PROJECT
75MW WIND FARM
Amherst Island, Loyalist Township, Ontario

Title

TEMPORARY ENTRANCE LAYOUT
SOUTH SHORE ROAD
ENTRANCE FOR TURBINE S33 & S28

Project No. 133560100
Scale 1:250H 1:125V

Drawing No. PCS C214-Ent
Sheet 1 of 1
Revision A