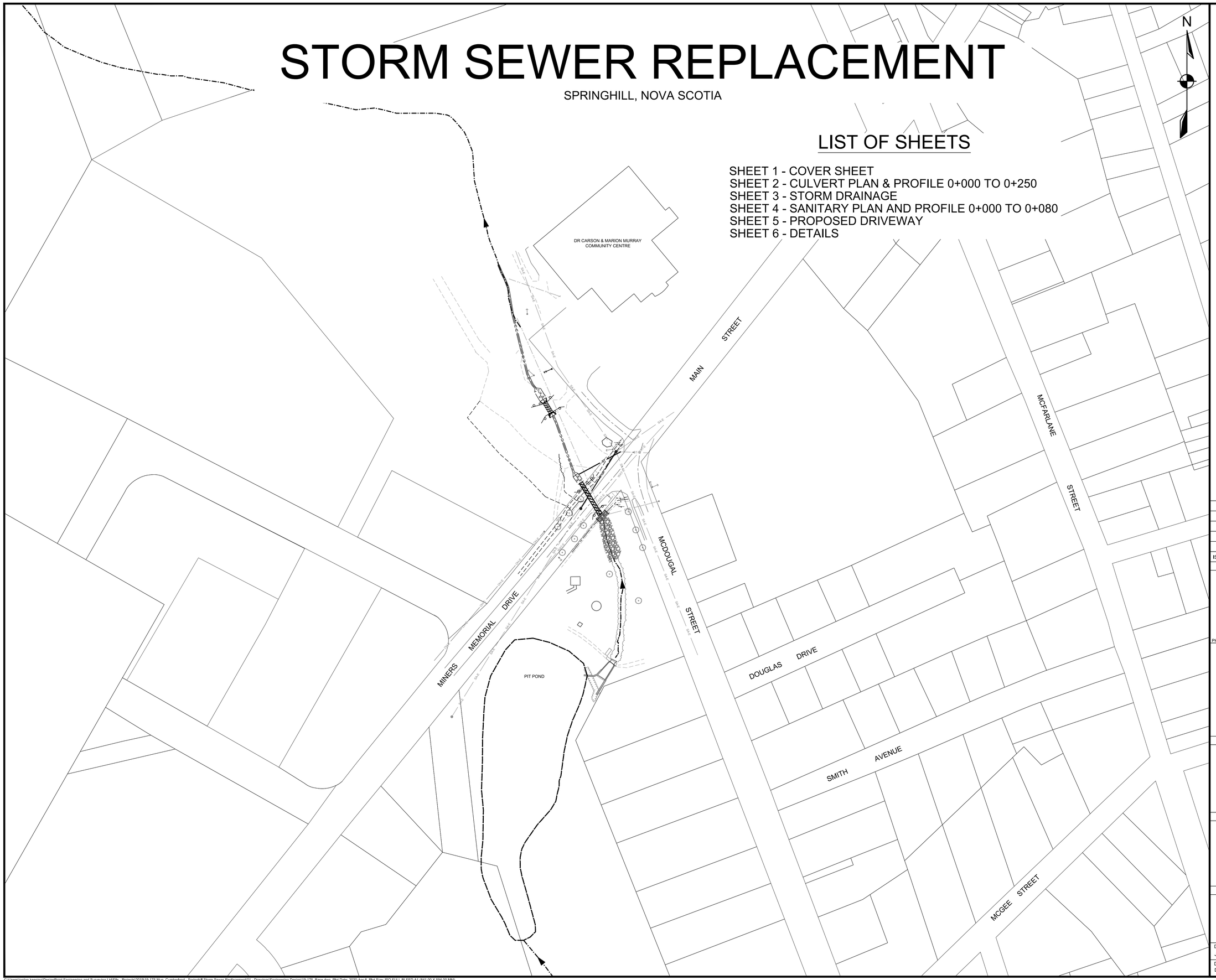
STORM SEWER REPLACEMENT

SPRINGHILL, NOVA SCOTIA

LIST OF SHEETS

SHEET 1 - COVER SHEET
SHEET 2 - CULVERT PLAN & PROFILE 0+000 TO 0+250
SHEET 3 - STORM DRAINAGE
SHEET 4 - SANITARY PLAN AND PROFILE 0+000 TO 0+080
SHEET 5 - PROPOSED DRIVEWAY
SHEET 6 - DETAILS



ISSUED FOR TENDER, NOT FOR CONSTRUCTION

Metres
25 0 25 50
1:1000

ISSUE	DATE	DESCRIPTION
4	APR. 08, 2020	RE-ISSUED FOR TENDER
3	APR. 01, 2020	ISSUED FOR APPROVAL
2	JAN 28, 2020	ISSUE FOR TENDER
1	DEC 03, 2019	75% REVIEW

CONSULTANT

DESIGN POINT ENGINEERING & SURVEYING
PHONE: 902.832.5597
www.designpoint.ca

REGISTERED PROFESSIONAL ENGINEER
DATE 08/04/2020
A. J. SKETCHLEY
11560
PROVINCE OF NOVA SCOTIA

CLIENT

municipality of cumberland

PROJECT DESCRIPTION

SPRINGHILL STORM SEWER REPLACEMENT

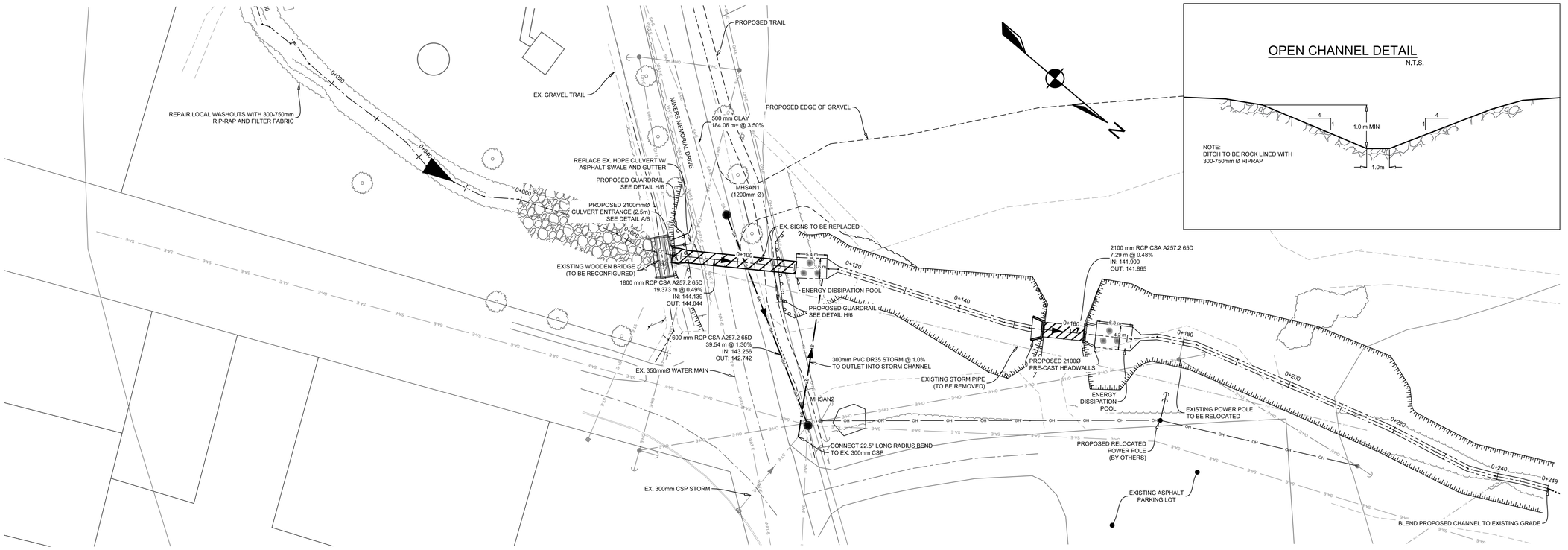
SPRINGHILL, NOVA SCOTIA

SHEET DESCRIPTION

COVER SHEET

Drawn	Engineer	Project No.	Drawing No.
J.KEEPING	A.SKETCHLEY	19-175	C-01
Date of 1st Issue	Scale	Filename	1 of 6
DEC 03, 2019	1:1000	19-175_Base.dwg	

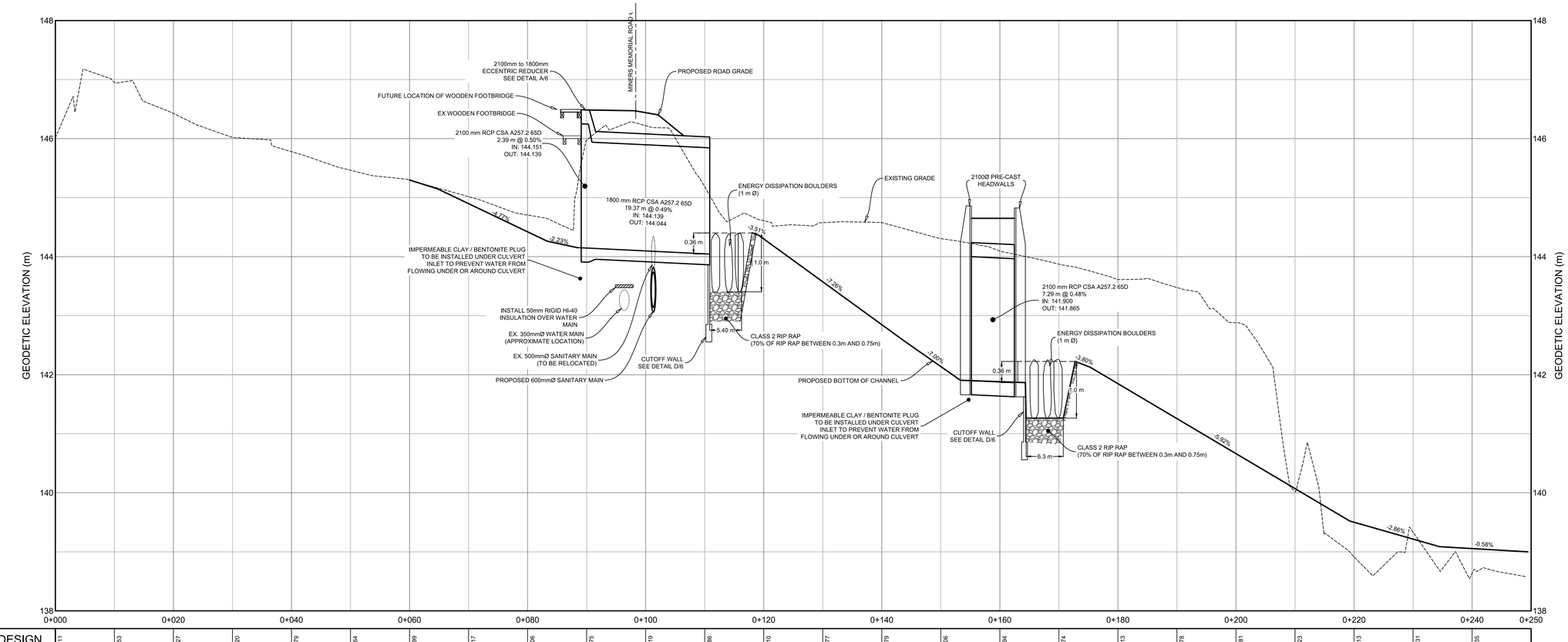
C:\Users\jordan.keeping\DesignPoint Engineering and Surveying Ltd\File - Projects\2019\19-175 Mun. Cumberland - Springhill Storm Sewer Replacement\01 - Drawings\Engineering Design\19-175_Base.dwg, Plot Date: 2020-Apr-8, Plot Size: ISO FULL BLEED A1 (841.00 X 594.00 MM)



OPEN CHANNEL DETAIL

N.T.S.

NOTE:
DITCH TO BE ROCK LINED WITH 300-750mm Ø RIPRAP



DESIGN GRADE	146.011	146.953	146.427	146.020	145.779	145.464	145.299	145.017	144.706	145.975	146.219	145.186	144.610	144.577	144.579	144.306	144.094	143.874	143.613	143.478	142.881	140.023	138.913	138.331	138.635



LEGEND

EXISTING		PROPOSED
	VERTICAL PROFILE	
	EASEMENT	
WAT-E	WATER PIPE	WAT
SA-E	SANITARY PIPE	SA
ST-E	STORM PIPE	ST
	DITCH CENTERLINE	
	CULVERT	
	GUARDRAIL	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
OH-E	OVERHEAD LINE	OH

	EXISTING	PROPOSED		EXISTING	PROPOSED
SURFACE GRADE	0.00	0.00	HYDRANT		
PRECAST HEADWALL			CATCHBASIN		
STREET SIGN			UTILITY POLE w/ GUY WIRE		
TREE			SURFACE FLOW		

ISSUED FOR TENDER, NOT FOR CONSTRUCTION

Metres
10 0 10 20
1:400

ISSUE	DATE	DESCRIPTION
4	APR. 08, 2020	RE-ISSUED FOR TENDER
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PHONE: 902.832.5597
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DATE 08/04/2020
A. J. SKETCHLEY
11560
PROVINCE OF NOVA SCOTIA

CLIENT

municipality of cumberland

PROJECT DESCRIPTION

SPRINGHILL STORM SEWER REPLACEMENT

SPRINGHILL, NOVA SCOTIA

SHEET DESCRIPTION

CULVERT PLAN & PROFILE 0+000 TO 0+250

Drawn	Engineer	Project No.	Drawing No.
J.KEEPING	A.SKETCHLEY	19-175	C-02
Date of 1st Issue	Scale	Filename	2 of 6
DEC 03, 2019	1:400 H, 1:40 V	19-175_Base.dwg	



LEGEND

EX. CONTOUR (MAJOR)	
EX. CONTOUR (MINOR)	
SUBCATCHMENT AREA	
SURFACE RUNOFF	

NOTES:
1. DESIGN BASED ON 100 YEAR FLOW VELOCITY OF 2.9 m/s FOR RIP RAP SIZING BASED ON MANNING'S 'n' OF 0.03.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA WATERCOURSE ALTERATION STANDARD, LATEST EDITION.
3. STABILIZE ALL DISTURBED AREAS WITH 100 mm TOPSOIL AND HYDROSEED UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
4. CULVERT SUBJECT TO NSE REVIEW AND APPROVAL PRIOR TO INSTALLATION.
5. JOINTS TO BE WATER TIGHT.
6. WORK TO BE CARRIED OUT BETWEEN JUNE 1 AND OCTOBER 31 WHEN FLOW IN BROOK IS AT A MINIMUM AND WITH LITTLE TO NO RAIN IN THE 5 DAY FORECAST.
7. UPSTREAM CHANNEL WIDTH = 4.0 m ±, CHANNEL DEPTH = 0.4 m ±
8. EXISTING CHANNEL IS A MIXTURE OF 65% ± 25 - 100 mm STONES, 25% ± 100 - 400 mm COBBLES, AND 10% ± SILT/VEGETATION.

ISSUED FOR TENDER, NOT FOR CONSTRUCTION

CULVERT TABLE

TRIBUTARY AREA (ha)	SIZE (mm)	STORM	DESIGN FLOW (m^3/s)	CAPACITY @ HW/D = 1 (m^3/s)	HW/D @ DESIGN FLOW
114.6	1800 Ø RCP*	100 YEAR	8.1	8.5	0.98
115.0	2100 Ø RCP	100 YEAR	8.1	8.45	0.99

CALCULATIONS BASED ON 100 YEAR RETURN 24 HOUR STORM (133 mm BASED ON MONCTON ENVIRONMENT CANADA DATA).

MANNING 'n' FOR CULVERT CAPACITY = 0.013
*1800 mm Ø CULVERT WITH 2100 mm Ø INLET.

Metres
200 0 200 400
1:5000

ISSUE	DATE	DESCRIPTION
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PROJECT DESCRIPTION

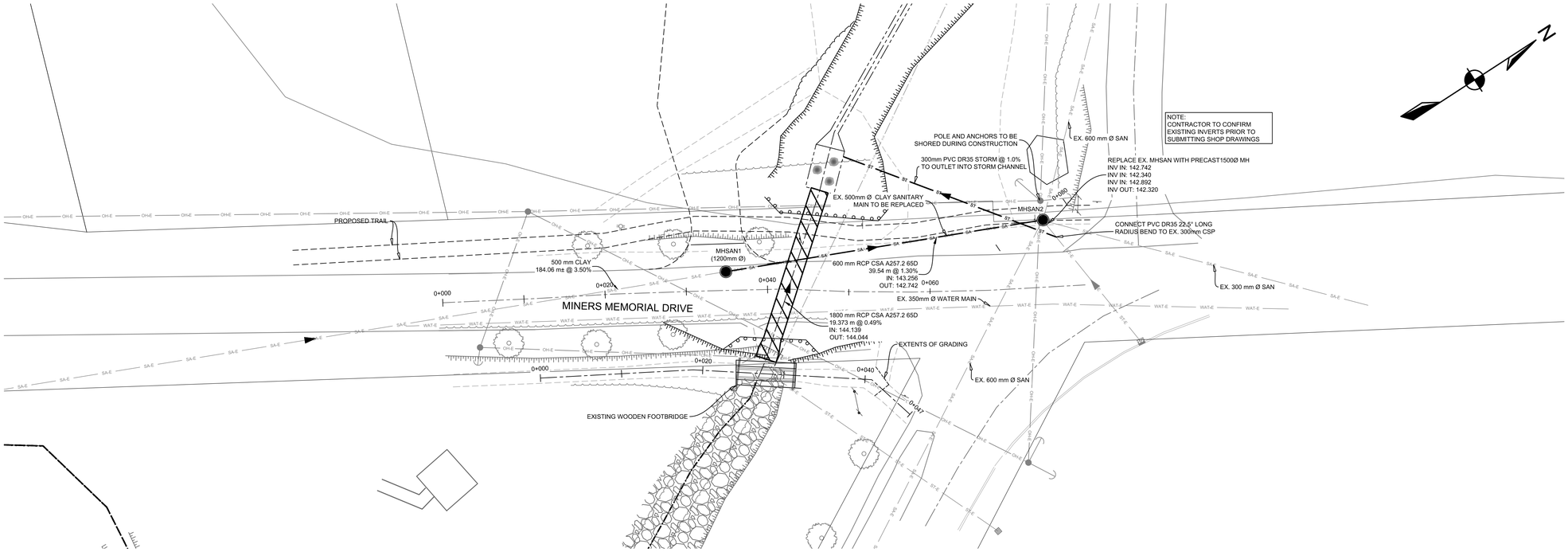
SPRINGHILL STORM SEWER REPLACEMENT

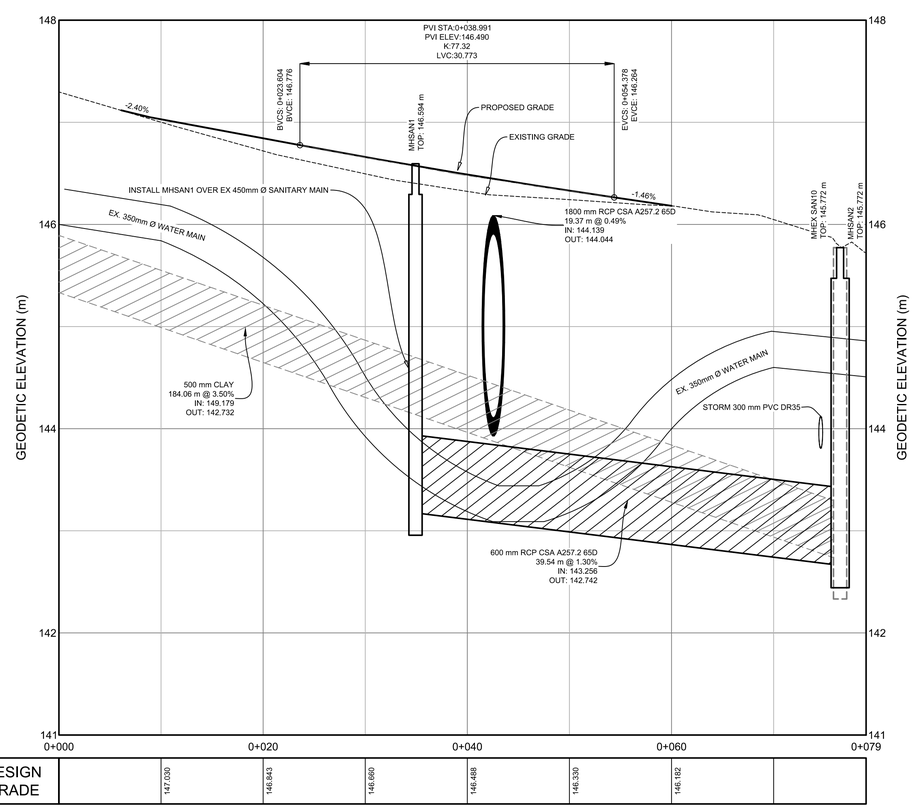
SPRINGHILL, NOVA SCOTIA

SHEET DESCRIPTION

STORM DRAINAGE PLAN

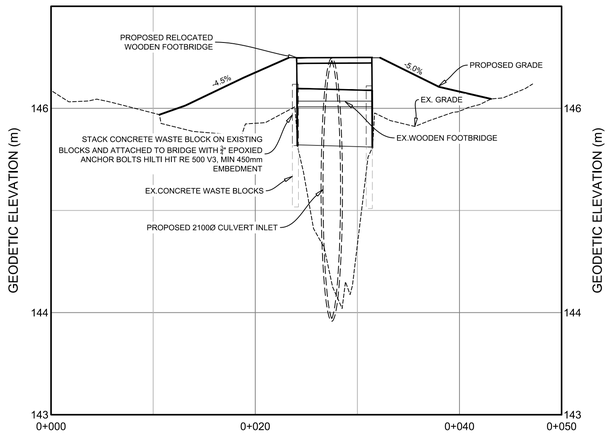
Drawn J.KEEPING	Engineer A.SKETCHLEY	Project No. 19-175	Drawing No. C-03
Date of 1st Issue DEC 03, 2019	Scale 1:5000	Filename 19-175_Base.dwg	3 of 6





DESIGN GRADE		147.030	146.843	146.660	146.488	146.330	146.182	

FOOTBRIDGE PROFILE





LEGEND

EXISTING		PROPOSED
	VERTICAL PROFILE	
	EASEMENT	
WAT-E	WATER PIPE	WAT WAT
SA-E	SANITARY PIPE	SA SA
ST-E	STORM PIPE	ST ST
	DITCH CENTERLINE	
	CULVERT	
	GUARDRAIL	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
OH-E	OVERHEAD LINE	OH OH

	EXISTING	PROPOSED		EXISTING	PROPOSED
SURFACE GRADE	0.00	0.00	HYDRANT		
PRECAST HEADWALL			CATCHBASIN		
STREET SIGN			UTILITY POLE w/ GUY WIRE		
TREE			SURFACE FLOW		

ISSUED FOR TENDER, NOT FOR CONSTRUCTION

Metres

10 0 10 20

1:300

ISSUE	DATE	DESCRIPTION
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PHONE: 902.832.5597
www.designpoint.ca

REGISTERED PROFESSIONAL ENGINEER
DATE 08/04/2020
A. J. SKETCHLEY
11560
PROVINCE OF NOVA SCOTIA

CLIENT

municipality of cumberland

PROJECT DESCRIPTION

SPRINGHILL STORM SEWER REPLACEMENT

SPRINGHILL, NOVA SCOTIA

SHEET DESCRIPTION

SANITARY REPLACEMENT PLAN AND PROFILE 0+000 TO 0+080

Drawn	Engineer	Project No.	Drawing No.
J.KEEPING	A.SKECTHLY	19-175	C-04
Date of 1st Issue	Scale	Filename	4 of 6
DEC 03, 2019	1:300 H, 1:30 V	19-175_Base.dwg	

CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE

EXISTING EDGE OF GRAVEL PARKING

PROPOSED EDGE OF GRAVEL PARKING

PROPOSED TRAIL

PROPOSED GRAVEL DRIVEWAY

PROPOSED MHSAN1

MHSAN1
(1200mm Ø)

600 mm RCP CSA A257.2 65D
39.54 m @ 1.30%
IN: 143.256
OUT: 142.742

PROPOSED 1800mm Ø CULVERT

PROPOSED GUARDRAIL

PROPOSED GUARDRAIL

MINERS MEMORIAL DRIVE

EXISTING WOODEN BRIDGE

EXISTING SIGN

6.1 m

R5.0 m

R5.0 m

4:1

4:1

4:1

3%

142.86
143.97
143.57
144.01
144.40
144.13
143.89
141.22
141.83
141.69
142.68
143.83
144.65
144.65
144.23
142.26
143.26
144.34
139.55
140.08
139.08
140.06
141.35
142.54
139.52
140.78
140.62
144.51
143.23
144.30
144.60
144.62
144.75
145.26
144.67
145.03
144.63
145.29
144.61
145.20
144.73
144.99
144.39
144.91
143.40
145.60
145.82
145.48
145.69
145.97
145.81
146.53
146.21

LEGEND

EXISTING		PROPOSED
	VERTICAL PROFILE	
	EASEMENT	
WAT-E	WATER PIPE	WAT
SA-E	SANITARY PIPE	SA
ST-E	STORM PIPE	ST
	DITCH CENTERLINE	
	CULVERT	
	GUARDRAIL	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
OH-E	OVERHEAD LINE	OH

	EXISTING	PROPOSED		EXISTING	PROPOSED
SURFACE GRADE	0.00	0.00	HYDRANT		
PRECAST HEADWALL			CATCHBASIN		
STREET SIGN			UTILITY POLE w/ GUY WIRE		
TREE			SURFACE FLOW		

ISSUED FOR TENDER, NOT FOR CONSTRUCTION

Metres
2.5 0 2.5 5
1:100

ISSUE	DATE	DESCRIPTION
4	APR. 08, 2020	RE-ISSUED FOR TENDER
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ENGINEERING & SURVEYING
PHONE: 902.832.5597
www.designpoint.ca

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A. J. SKETCHLEY
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CLIENT

municipality of cumberland

PROJECT DESCRIPTION

SPRINGHILL STORM SEWER REPLACEMENT

SPRINGHILL, NOVA SCOTIA

SHEET DESCRIPTION

PROPOSED DRIVEWAY GRADING PLAN

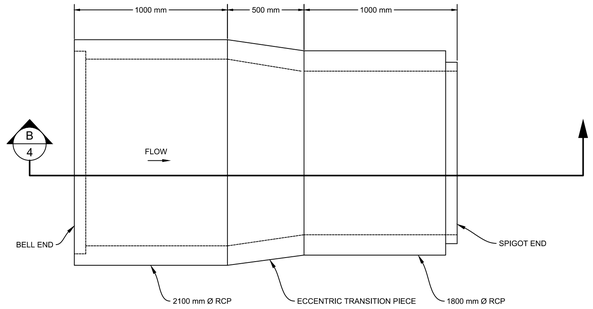
Drawn	Engineer	Project No.	Drawing No.
J.KEEPING	A.SKETCHLEY	19-175	C-05
Date of 1st Issue	Scale	Filename	5 of 6
DEC 03, 2019	1:250	19-175_Base.dwg	

C:\Users\jordan.keeping\DesignPoint Engineering and Surveying Ltd\File - Projects\2019\19-175 Mun. Cumberland - Springhill Storm Sewer Replacement\01 - Drawings\Engineering Design\19-175_Base.dwg, Plot Date: 2020-Apr-8, Plot Size: ISO FULL BLEED A1 (841.00 X 594.00 MM)

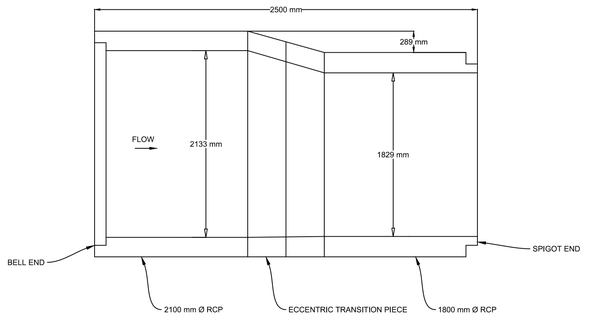
2100 mmØ to 1800 mmØ ECCENTRIC REDUCER

A / 6 — NTS

PLAN DETAIL

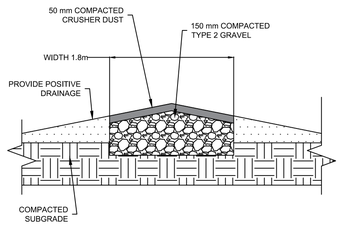


PROFILE DETAIL



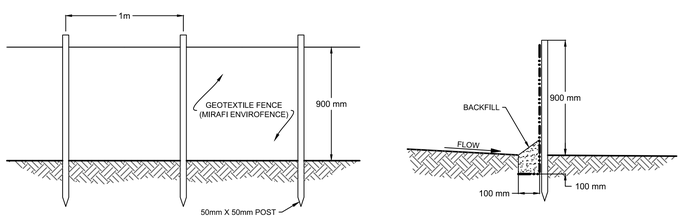
PATHWAY DETAIL

B / 6 — NTS



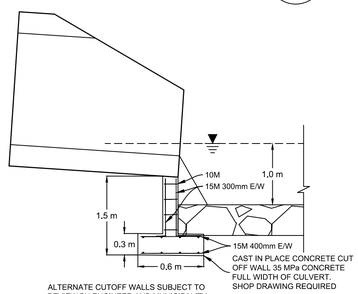
SILT FENCE DETAIL

C / 6 — N.T.S.



CUTOFF WALL DETAIL

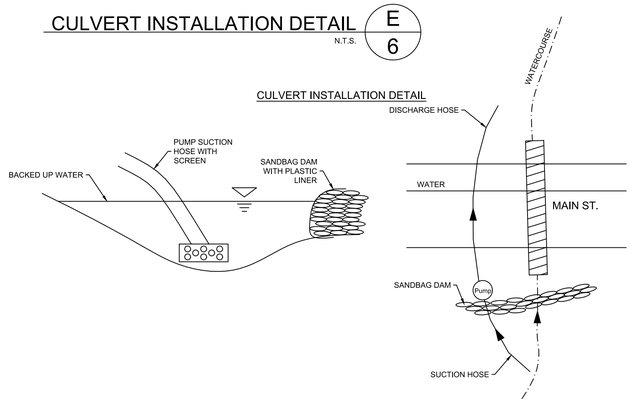
D / 6 — N.T.S.



ALTERNATE CUTOFF WALLS SUBJECT TO REVIEW BY ENGINEER AND MUNICIPALITY.

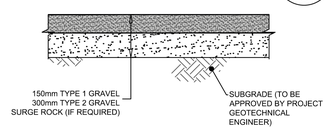
CULVERT INSTALLATION DETAIL

E / 6 — N.T.S.



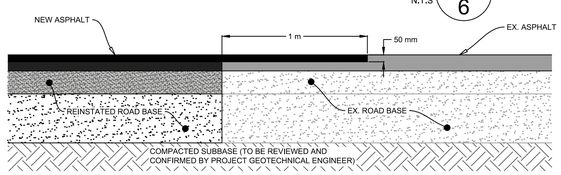
TYPICAL GRAVEL PARKING LOT DETAIL

F / 6 — N.T.S.



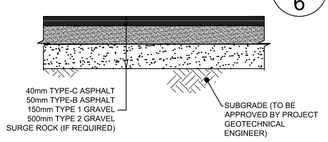
PAVEMENT REINSTATEMENT DETAIL

G / 6 — N.T.S



TYPICAL ASPHALT STRUCTURE

H / 6 — N.T.S.



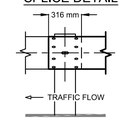
EROSION AND SEDIMENT CONTROL

1. EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
3. CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
4. CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
5. CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS (https://weather.gc.ca/canada_e.html).
6. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
7. TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
9. CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
10. EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
11. CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
12. SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
13. SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
14. UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEEDED AND MULCHED.
15. TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
16. ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
17. VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
18. STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
19. ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
20. SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.
21. ALL WORK WITHIN THE WATERCOURSE OR ALONG ITS BANKS TO BE COMPLETED IN DRY CONDITIONS BETWEEN JUNE 1 AND SEPTEMBER 30. NO WORK IS TO TAKE PLACE PRIOR TO NSE APPROVAL. ALL CONDITIONS OF WATER COURSE APPROVAL ARE TO BE MET BY THE CONTRACTOR.

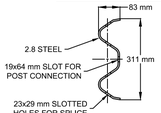
GUARDRAIL INSTALLATION DETAIL

I / 6 — N.T.S.

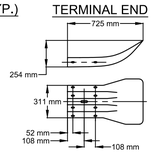
SPLICE DETAIL



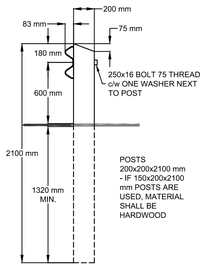
BEAM SECTION (TYP.)



TERMINAL END



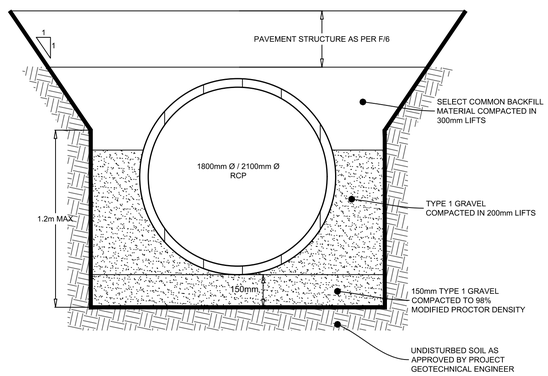
ELEVATION



NOTES:
1. TWO 50x75 DELINEATORS ARE REQUIRED FOR EACH POST.
2. A WHITE DELINEATOR SHALL BE PLACED ON THE SIDE OF THE POST FACING TRAFFIC.
3. A YELLOW DELINEATOR SHALL BE PLACED ON THE OPPOSITE SIDE.
4. THE DELINEATOR SHALL BE LOCATED AT THE EDGE OF THE POST NEAREST THE ROAD, VERTICAL, WITH THE TOP 75 BELOW THE LOWEST POINT OF THE GUARDRAIL PANEL.
5. THE DELINEATOR SHALL BE ATTACHED WITH GALVANIZED NAILS.

TRENCH BACK FILL DETAIL

J / 6 — N.T.S.



GENERAL CONSTRUCTION NOTES:

1. **SAFETY IS PARAMOUNT AND THE CONTRACTOR MUST USE SAFE WORK PRACTICES IN ACCORDANCE WITH THE NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY ACT.**
2. ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROADBUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA (CURRENT EDITION).
3. ALL WORKS TO BE IN ACCORDANCE WITH REQUIREMENTS OF ALL PERMITS AND REGULATIONS AS ISSUED BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
4. CONTRACTOR TO NOTIFY DESIGNPOINT,MUNICIPALITY OF CUMBERLAND COUNTY REGARDING CONSTRUCTION SCHEDULING PRIOR TO COMMENCING CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILT LADEN RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM 'EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES' (CURRENT EDITION), BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
6. ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL, ASPHALT, CONCRETE, OR SOD ARE TO BE STABILIZED WITH 100mm TOPSOIL AND HYDROSEEDED. HYDROSEEDED AREAS TO BE COVERED WITH HAY MULCH (MIN. 3500 kg/Ha). HYDROSEEDED AREAS THAT DO NOT SHOW ACTIVE GROWTH WITHIN THE FIRST GROWING SEASON TO BE RE-STABILIZED.
7. MATERIALS SHALL NOT BE SUBSTITUTED UNLESS PRIOR APPROVAL IS PROVIDED BY THE ENGINEER.
8. SHOP DRAWINGS TO BE PROVIDED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
9. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
10. LOCATIONS OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING INFRASTRUCTURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
11. CONTRACTOR TO ALLOW A 1 WEEK REVIEW PERIOD BY THE ENGINEER. CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SUCH AS HERITAGE GAS, NOVA SCOTIA POWER, BELL ALIANT AND EASTLINK,. CONTRACTOR TO VISIT CLICKBEFOREYOUDIG.COM TO REQUEST LOCATES PRIOR TO COMPLETING ANY EXCAVATION. CONTRACTOR SHALL ADHERE TO ALL OCCUPATIONAL HEALTH AND SAFETY REGULATIONS FOR WORKING AROUND LIVE GAS MAINS.
12. PERMISSION FROM LANDOWNER(S) REQUIRED TO WORK ON PRIVATE PROPERTY.
13. CONTRACTOR TO NOTIFY PROPERTY OWNERS WHO WILL EXPERIENCE DISRUPTION DURING THE WORK (PROPERTY ACCESS, MUNICIPAL SERVICE LOSS, POWER/COMMUNICATION LOSS, ETC.) AT LEAST 48 HOURS PRIOR TO THE DISRUPTION.
14. ALL ELEVATIONS ARE METRIC AND GEODETIC. **TOPOGRAPHICAL SURVEY COMPLETED BY DESIGNPOINT ON SEPTEMBER 19, 2019.** CONTRACTOR TO CONTACT DESIGNPOINT FOR CONSTRUCTION LAYOUT CONTROL INFORMATION 2 WEEKS PRIOR TO CONSTRUCTION.
15. ALL EARTHWORK (INCLUDING SUBGRADE), TRENCH WORK, PIPE BEDDING, AND SURFACE TREATMENT (INCLUDING GRAVELS, ASPHALT, AND CONCRETE) TO BE REVIEWED AND CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
16. DRAWINGS SUBJECT TO CONSTRUCTION APPROVAL BY THE APPLICABLE APPROVAL AGENCIES (i.e. NOVA SCOTIA DEPARTMENT OF ENVIRONMENT) PRIOR TO CONSTRUCTION.
17. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES REQUIRED FOR THE PROJECT, ALL TEMPORARY TRAFFIC CONTROL MEASURES TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NOVA SCOTIA TRANSPORTATION AND INFRASTRUCTURE RENEWAL TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL AND THE LATEST EDITION OF THE TRANSPORTATION ASSOCIATION OF CANADA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA.
18. INSULATION TO BE 50mm THICK HI40 RIGID STYROFOAM (ROAD AND TRAFFIC RATED).
19. CONTRACTOR MAY REQUEST GRADE ADJUSTMENTS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER AND APPLICABLE APPROVAL AGENCIES. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DRAWING REVISIONS AND APPROVALS.
20. ALL TEMPORARY ROAD CLOSURES WILL REQUIRE A ROAD CLOSURES PERMIT.
21. ALL GRAVITY PIPE TO BE INSTALLED IN AN UPSTREAM DIRECTION. CONTRACTOR TO BEGIN PIPE INSTALLATION AT THE MOST DOWNSTREAM LOCATION. INSTALLING TEMPORARILY ORPHANED PIPE SECTIONS IS NOT ACCEPTABLE (UNLESS APPROVED BY THE UTILITY AND THE ENGINEER).

ISSUED FOR TENDER, NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
4	APR, 08, 2020	RE-ISSUED FOR TENDER
3	APR, 01, 2020	ISSUED FOR APPROVAL
2	JAN 28, 2020	ISSUE FOR TENDER
1	DEC 03, 2019	75% REVIEW

CONSULTANT

DESIGN POINT ENGINEERING & SURVEYING
PHONE: 902.832.5597
www.designpoint.ca

REGISTERED PROFESSIONAL ENGINEER — DATE 08/04/2020 — A. J. SKETCHLEY — 11560 — PROVINCE OF NOVA SCOTIA

CLIENT

municipality of cumberland

PROJECT DESCRIPTION

SPRINGHILL STORM SEWER REPLACEMENT

SPRINGHILL, NOVA SCOTIA

SHEET DESCRIPTION

DETAILS

Drawn	Engineer	Project No.	Drawing No.
J.KEEPING	A.SKETCHLEY	19-175	C-06
Date of 1st Issue	Scale	Filename	6 of 6
DEC 03, 2019	N.T.S.	19-175_Base.dwg	