

LEGEND

	PROPOSED	EXISTING
EDGE OF PAVEMENT	---	---
EDGE OF GRAVEL	---	---
CURB	---	---
SWALE / DITCH	---	---
UTILITY POLE & LINES	---	---
LOTLINE	---	---
EASEMENT	---	---
CATCH BASIN	□	□
FIRE HYDRANT	●	●
SHRUB	●	●
SILT FENCE	---	---
LIGHT STANDARD	✱	✱
ROAD SIGN	---	---
UTILITY POLE	---	---
ROAD SIGN	---	---
CULVERT	-----	-----
HEADWALL	-----	-----
HEADWALK	-----	-----
FENCE	---	---
SIDEWALK	---	---

NOTES

DRAWINGS SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION

SCALE 1:300

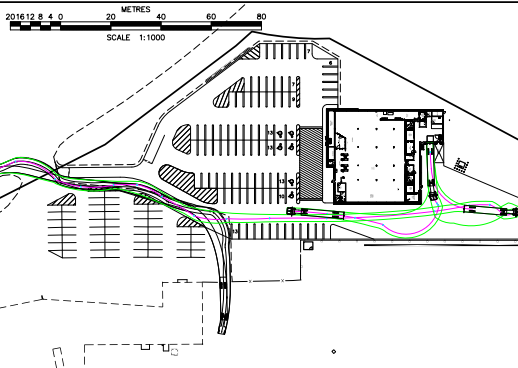
10 0 4 2 0 METRES

NO.	DESCRIPTION	CHKD	DATE
4	ISSUED FOR DEVELOPMENT AGREEMENT		15/05/2023
3	SITE PLAN REVISED		28/04/2023
2	ISSUED FOR PERMIT		02/11/2022
1	ISSUED FOR COORDINATION		17/01/2022
0	ISSUED FOR REVIEW		06/05/2021

HGE Engineering Inc.
Land Surveys
Consulting Engineers

153 Sackville Drive, Suite 1, Lower Sackville, NS, B4C 2R3
Phone: (902) 880-1354
www.hge-inc.ca

REGISTERED PROFESSIONAL ENGINEER
DATE 10-MAY-2003
S.T. HOLLOWAY
8597
PROVINCE OF NOVA SCOTIA



CLIENT NAME & ADDRESS

METLINK INVESTMENTS
Dartmouth, Nova Scotia

PROJECT NAME & ADDRESS

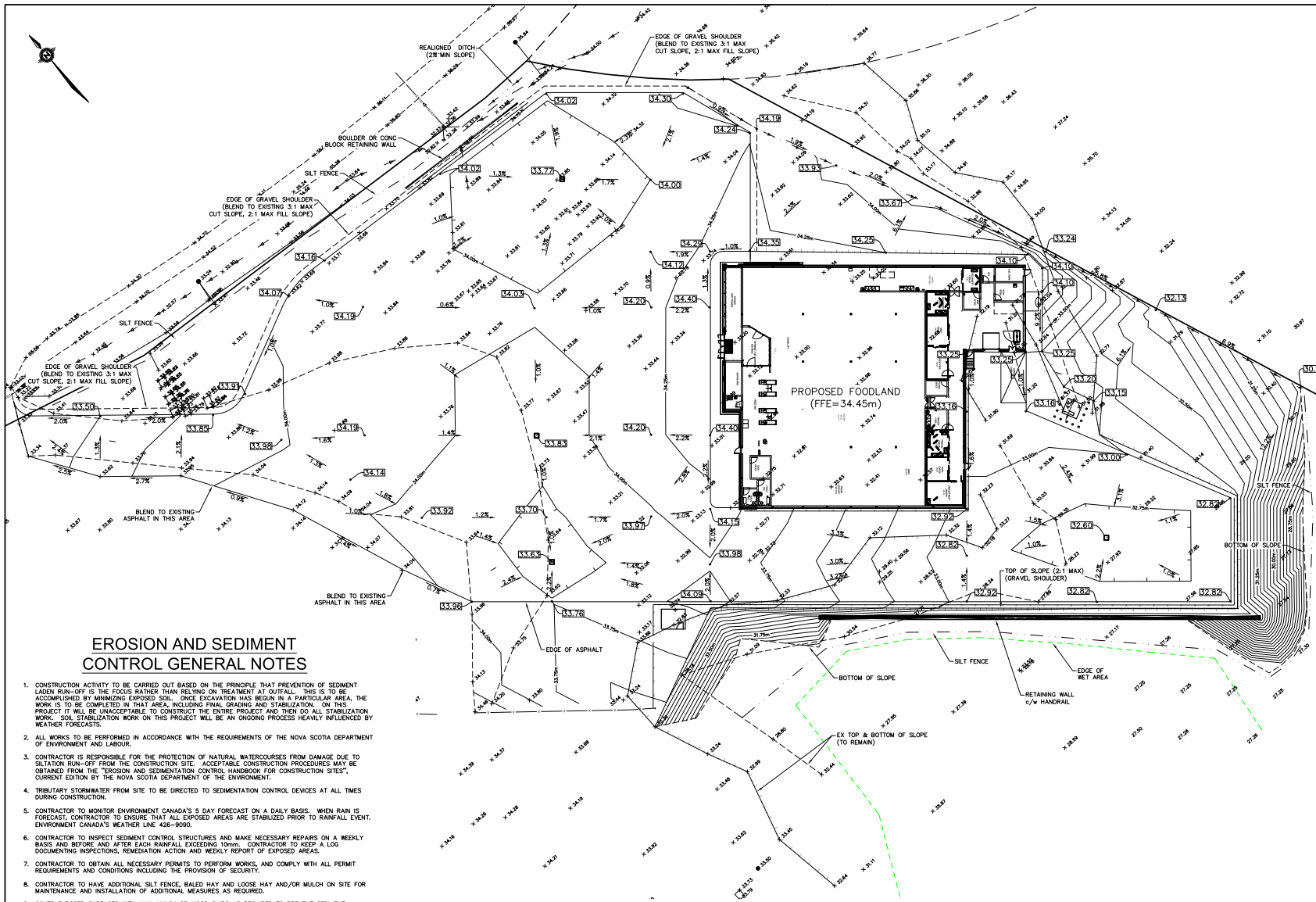
FOODLAND
Hwy No. 7, Head of Jeddore, Nova Scotia

SHEET DESCRIPTION

SITE PLAN

SHEET NO.	NUMBER OF SHEETS
1	5

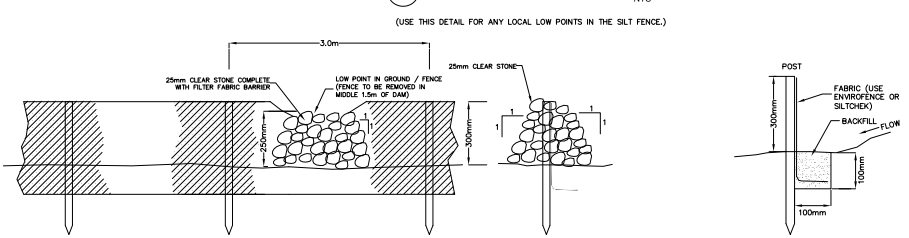
DRAWN BY: MLP
DATE: 10/05/2023
SCALE: 1:300
CHECKED BY: DTH
PROJECT NO: H2704



EROSION AND SEDIMENT CONTROL GENERAL NOTES

- CONSTRUCTION ACTIVITY TO BE CARRIED OUT BASED ON THE PRINCIPLE THAT PREVENTION OF SEDIMENT LAID RUN-OFF IS THE FOCUS RATHER THAN RELYING ON TREATMENT AT OUTFALL. THIS IS TO BE ACCOMPLISHED BY MINIMIZING EXPOSED SOIL. ONCE EXCAVATION HAS BEGUN IN A PARTICULAR AREA, THE WORK IS TO BE COMPLETED IN THAT AREA, INCLUDING FINAL GRADING AND STABILIZATION. ON THIS PROJECT IT WILL BE UNACCEPTABLE TO CONSTRUCT THE ENTIRE PROJECT AND THEN DO ALL STABILIZATION WORK. SOIL STABILIZATION WORK ON THIS PROJECT WILL BE AN ONGOING PROCESS HEAVILY INFLUENCED BY WEATHER FORECASTS.
- ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND LABOUR.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILTATION RUN-OFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM THE "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES", CURRENT EDITION BY THE NOVA SCOTIA DEPARTMENT OF THE ENVIRONMENT.
- TRIBUTARY STORMWATER FROM SITE TO BE DIRECTED TO SEDIMENTATION CONTROL DEVICES AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR TO MONITOR ENVIRONMENT CANADA'S 5 DAY FORECAST ON A DAILY BASIS. WHEN RAIN IS FORECAST, CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENT. ENVIRONMENT CANADA'S WEATHER LINE 426-9090.
- CONTRACTOR TO INSPECT SEDIMENT CONTROL STRUCTURES AND MAKE NECESSARY REPAIRS ON A WEEKLY BASIS AND BEFORE AND AFTER EACH RAINFALL EXCEEDING 10mm. CONTRACTOR TO KEEP A LOG DOCUMENTING INSPECTIONS, REMEDIATION ACTION AND WEEKLY REPORT OF EXPOSED AREAS.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS TO PERFORM WORKS, AND COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS INCLUDING THE PROVISION OF SECURITY.
- CONTRACTOR TO HAVE ADDITIONAL SILT FENCE, BALED HAY AND LOOSE HAY AND/OR MULCH ON SITE FOR MAINTENANCE AND INSTALLATION OF ADDITIONAL MEASURES AS REQUIRED.
- COVER EXPOSED SURFACES WITH HAY, MULCH OR WOOD CHIPS AS REQUIRED TO PREVENT SEDIMENT RUN-OFF. MAINTAIN COVERAGE THROUGHOUT CONSTRUCTION PERIOD.
- CONTRACTOR TO LEAVE SEDIMENTATION BERMS AND PONDS IN SERVICE UNTIL PROJECT ENGINEER REQUESTS THAT THEY BE TAKEN OUT OF SERVICE. BERMS AND PONDS TO REMAIN IN PLACE THROUGH LOT AND BUILDING CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL DO THE FOLLOWING TO TAKE THE SEDIMENTATION BERMS AND PONDS OUT OF SERVICE:
 - LEVEL OFF BERMS.
 - HYDROSEED AND COVER ALL DISTURBED AREAS WITH HAY.
 - FILL IN PONDS (WHERE REQUIRED)
- ALL LOT DRAINAGE EASEMENTS TO BE HYDROSEEDED AND MULCHED AT COMPLETION OF GRADING ACTIVITY.
- ALL EXPOSED AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD TO HAVE TOP SOIL AND BE HYDROSEEDED.
- WHERE SILT FENCE IS SHOWN AND GROUND IS TOO ROCKY TO INSTALL REGULAR SILT FENCE, CONTRACTOR MAY SUBSTITUTE WITH WOODCHIE BEAM AS SHOWN IN DETAIL.
- MAINTAIN CLEAN GRAVEL ACCESS ROAD TO SITE, PERIODICALLY APPLYING ADDITIONAL GRAVEL TO COVER MUD SURFACES. CONTRACTOR RESPONSIBLE TO CLEAN ADJACENT STREETS AS DIRECTED BY THE ENGINEER.
- RESTRICT VEHICLE ACCESS TO SITE AT CONSTRUCTION ENTRANCES.
- ALL SEDIMENT CONTROL MEASURES TO BE FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR TO LEAVE SEDIMENTATION CONTROL MEASURES IN SERVICE UNTIL ENGINEER OR THE TOWN REQUESTS THAT THEY BE TAKEN OUT OF SERVICE.
- THE SEDIMENTATION AND EROSION CONTROL MEASURES OUTLINED ON THIS PLAN ARE RECOMMENDATIONS ONLY. DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION, ADDITIONAL MEASURES MAY BE REQUIRED.

(B) SILT FENCE DETAILS



LEGEND	
PROPOSED	EXISTING
SPOT ELEVATION	x 23.69
TOP OF SLOPE	-----
SWALE / DITCH	-----
BOTTOM OF SLOPE	-----
EDGE OF PAVEMENT	-----
CURB	=====
LOTLINE	-----
UTILITY POLE & LINES	-----
CATCH BASIN	☐
FIRE HYDRANT	●
SHRUB	⊙
SILT FENCE	---
LIGHT STANDARD	⊙
ROAD SIGN	⊙
UTILITY POLE	⊙
ROAD SIGN	⊙
CULVERT	-----
HEADWALL	-----
FENCE	-----
SIDEWALK	-----

NOTES	
DRAWINGS SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION	
 SCALE 1:300	

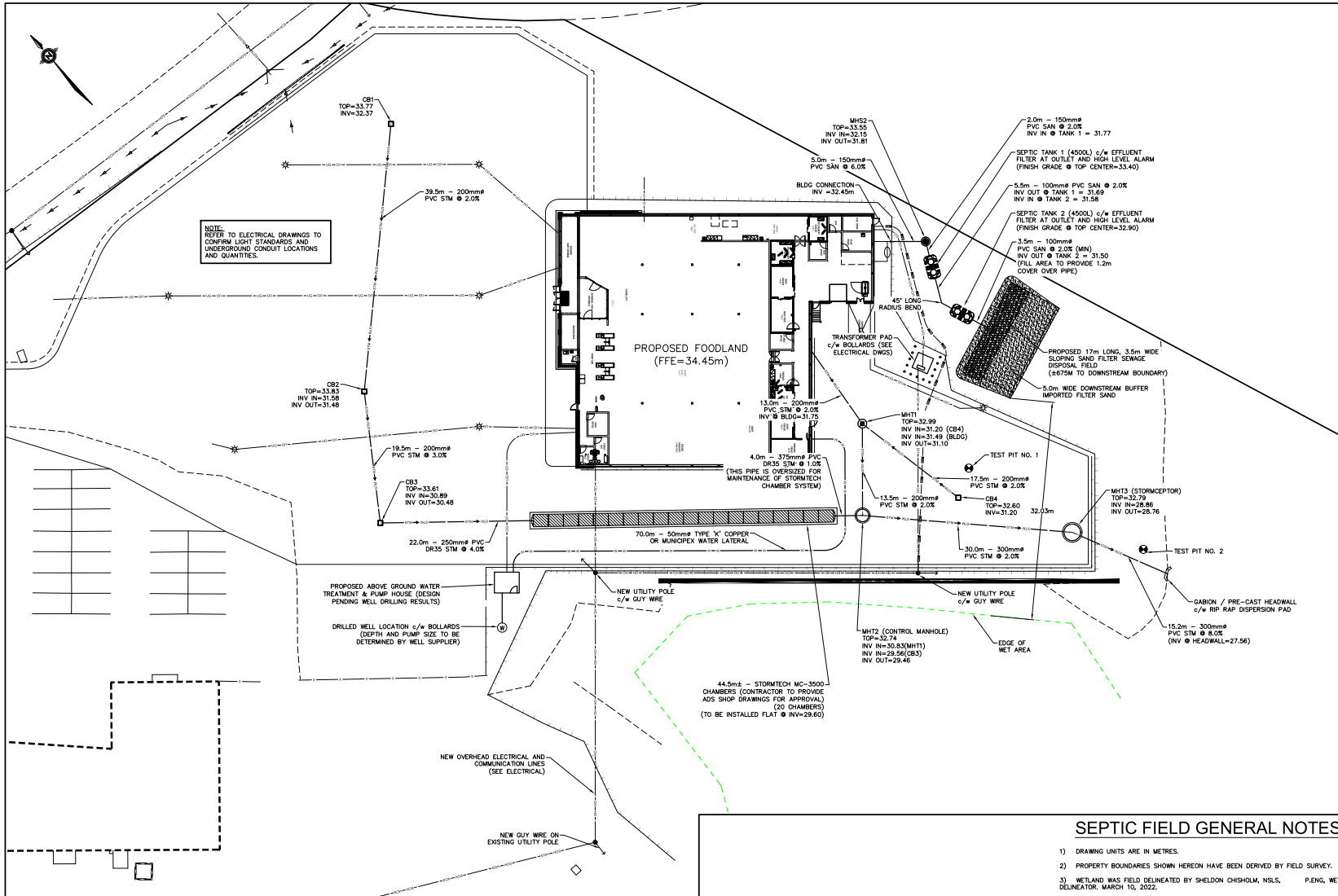
NO.	DESCRIPTION	CHKD	DATE
4	ISSUED FOR DEVELOPMENT AGREEMENT		15/05/2023
3	SITE PLAN REVISED		28/04/2023
2	ISSUED FOR PERMIT		02/11/2022
1	ISSUED FOR COORDINATION		17/01/2022
0	ISSUED FOR REVIEW		06/05/2021

SEAL

HGB Engineering Inc.
 Land Surveyors
 Consulting Engineers

153 Sackville Drive, Suite 1, Lower Sackville, NS, B4C 2R3
 Phone: (902) 880-1354
 www.hge-inc.ca

CLIENT NAME & ADDRESS	
METLINK INVESTMENTS Dartmouth, Nova Scotia	
PROJECT NAME & ADDRESS	
FOODLAND Hwy No. 7, Head of Jeddore, Nova Scotia	
SHEET DESCRIPTION	
GRADING PLAN	
SHEET NO.	NUMBER OF SHEETS
2	5
DRAWN BY: MLP	CHECKED BY: DTH
DATE: 10/03/2023	SCALE: 1:300 PROJECT NO: H21074



LEGEND	
PROPOSED	EXISTING
WATERMAIN & GATE VALVE	-----
SANITARY MANHOLE & PIPE	-----
STORM MANHOLE & PIPE	-----
UTILITY POLE & LINES	-----
EDGE OF PAVEMENT	-----
LOTLINE	-----
WATER LATERAL	-----
CATCH BASIN LEAD	-----
SWALE/DITCH	-----
CATCH BASIN	-----
FIRE HYDRANT	-----
SHRUB	-----
SILT FENCE	-----
FENCE	-----
SANITARY LATERAL	-----
STORM LATERAL	-----
HEADWALL	-----
ENDCAP	-----
EASEMENT	-----
CULVERT	-----
ROAD SIGN	-----
SHOULDER	-----
CURB	-----
UTILITY POLE	-----
SIDEWALK	-----

NOTES

DRAWINGS SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION

SCALE 1:300

NO.	DESCRIPTION	CHKD	DATE
4	ISSUED FOR DEVELOPMENT AGREEMENT		10/05/2023
3	SITE PLAN REVISED		28/04/2023
2	ISSUED FOR PERMIT		02/11/2022
1	ISSUED FOR COORDINATION		17/01/2022
0	ISSUED FOR REVIEW		06/05/2021

SEAL

HGE Engineering Inc.
 Land Surveys
 Consulting Engineers

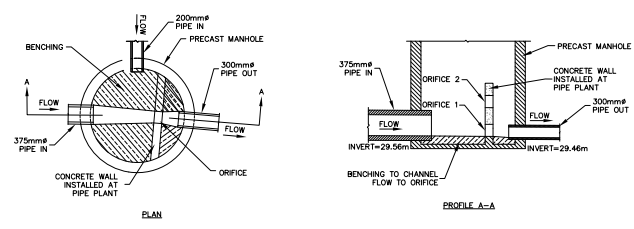
153 Sackville Drive, Suite 1, Lower Sackville, NS, B4C 2R3
 Phone: (902) 880-1354
 www.hge-inc.ca



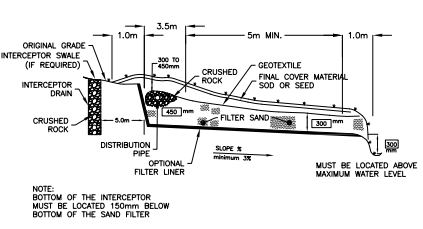
SEPTIC FIELD GENERAL NOTES

- DRAWING UNITS ARE IN METRES.
- PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED BY FIELD SURVEY.
- METLAND WAS FIELD DELINEATED BY SHELDON CHISHOLM, NSLS, P.ENG, METLAND DELINEATOR, MARCH 10, 2022.
- ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF NOVA SCOTIA ON-SITE SEWAGE DISPOSAL SYSTEMS REGULATIONS, ON-SITE SEWAGE DISPOSAL SYSTEMS STANDARD PUBLISHED BY NOVA SCOTIA ENVIRONMENT AND CONDITIONS OF THE NOTIFICATION OR APPROVAL FOR THE WORK. THE MOST RECENT COPY OF THE ON-SITE SEWAGE SYSTEMS TECHNICAL GUIDELINES MAY BE USED AS A BEST PRACTICE MANUAL, ONLY WITH THE PREVIOUSLY LISTED DOCUMENTS AS WELL AS THESE DRAWINGS AND SPECIFICATIONS TAKING PRIORITY.
- THE SEWAGE DISPOSAL SYSTEM MUST BE INSTALLED BY A CONTRACTOR AND/OR PERSON CURRENTLY LICENSED TO INSTALL ON-SITE SEWAGE DISPOSAL SYSTEMS IN NOVA SCOTIA.
- ORGANIC LOAM LAYER MUST BE REMOVED FROM THE BED AND SLOPE EXTENSION AREAS PRIOR TO FILL PLACEMENT. SCARIFY SUBSOIL PRIOR TO FILL PLACEMENT.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PROPERTY LINES, WATER WELLS, WATERCOURSES, METLANDS AND ELEVATIONS AT A MINIMUM OF 30.5 METRES FROM THE PROPOSED SEWAGE DISPOSAL SYSTEM.
- ROOF, FOUNDATION AND LOT DRAINAGE MUST BE DIRECTED AWAY FROM THE DISPOSAL FIELD, SEPTIC TANK AND PUMP (SPHON) CHAMBER IF APPLICABLE.
- BACKWASH WATER FROM WATER TREATMENT DEVICES SHALL NOT BE DISCHARGED TO THE ON-SITE SEWAGE DISPOSAL SYSTEM UNLESS SPECIFIED.
- THIS SYSTEM IS NOT DESIGNED FOR THE USE OF A GARBAGE DISPOSAL.
- STEPS MUST BE TAKEN TO ENSURE THAT THE PROPOSED DISPOSAL FIELD AREA IS NOT SUBJECT TO VEHICULAR TRAFFIC OR OTHER DISTURBANCE SUCH AS EXCAVATION OR STOCKPILING EXCAVATED MATERIAL. INSTALLATION OF A PHYSICAL BARRIER IS RECOMMENDED.
- CONTRACTOR AND OWNER TO ASSURE THAT THE CONSTRUCTION OF FOUNDATIONS, DRIVEWAY, WELL OR ANY OTHER DEVELOPMENT ON THE LOT SHALL NOT IMPACT ON THE FEASIBILITY OF THE ON-SITE SEWAGE DISPOSAL SYSTEM.
- ENGINEER SHALL BE KEPT INFORMED OF PROJECT SCHEDULING AND SHALL INSPECT AS A MINIMUM: INITIAL SITE MEETING WITH CONTRACTOR PRIOR TO EXCAVATION TO REVIEW SCOPE OF WORK AND PLACEMENT OF FILTER SAND, MODULUS, PIPING AND GEOTEXTILE PRIOR TO STOCKPILING - INTERIM INSTALLATION CERTIFICATE UPON BACKFILLING - FINAL INSTALLATION CERTIFICATE UPON PLACEMENT OF TOPSOIL AND SEED OR SOD.

C CONTROL MANHOLE (MHT2) DETAIL



D C-17 DETAILED X-SECTION SLOPING SAND FILTER



ORIFICE DETAILS

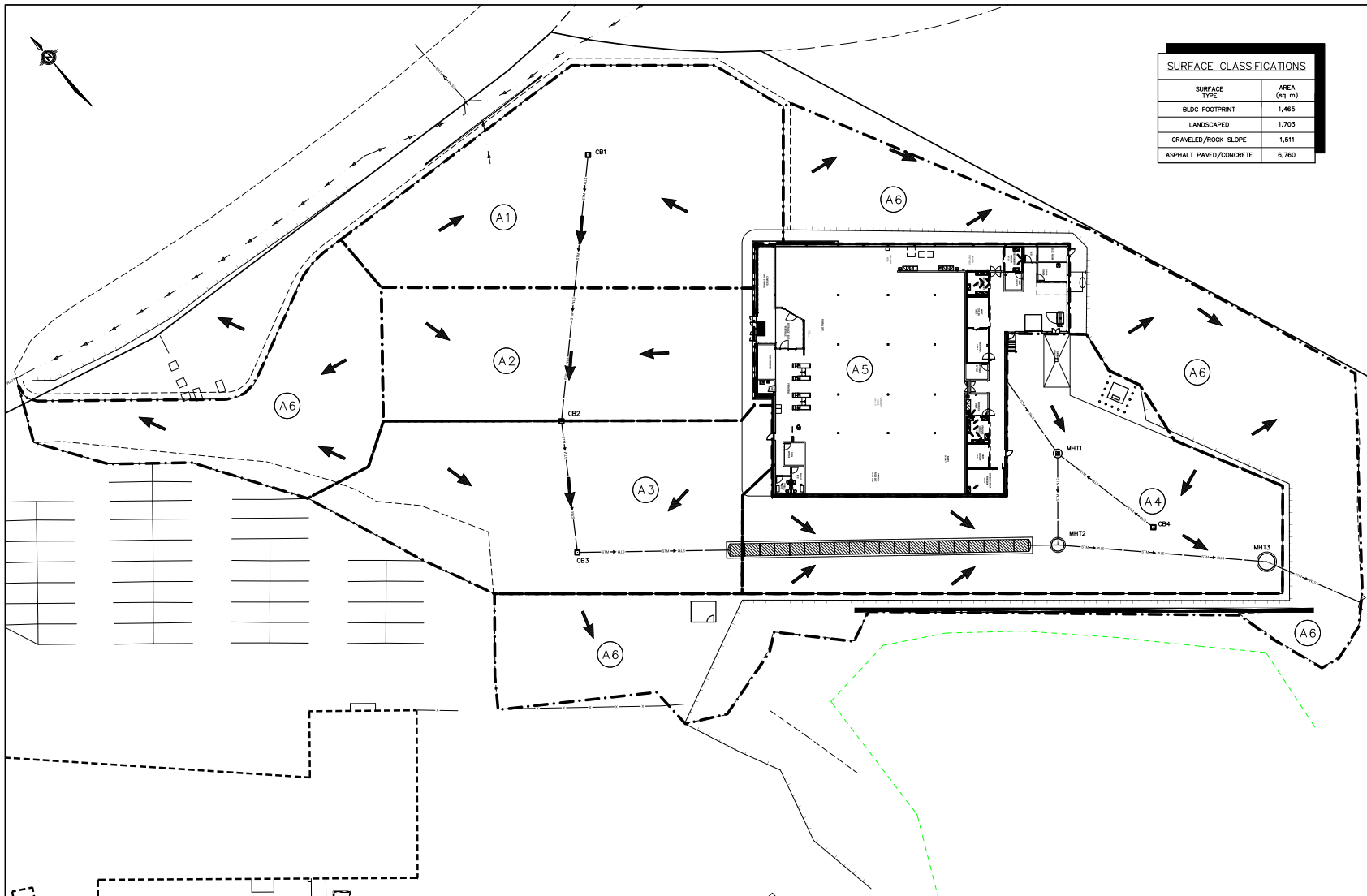
ORIFICE 1
 INVERT = 29.51m
 DIAMETER = 200mm

ORIFICE 2
 INVERT = 30.65m
 DIAMETER = 250mm

TOP WALL ELEVATION = 31.10m

NOTE:
 CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTE:
 BOTTOM OF THE INTERCEPTOR MUST BE LOCATED 150mm BELOW BOTTOM OF THE SAND FILTER

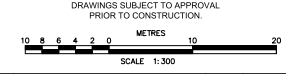


SURFACE CLASSIFICATIONS	
SURFACE TYPE	AREA (sq. m)
BLDG FOOTPRINT	1,465
LANDSCAPED	1,703
GRAVELED/ROCK SLOPE	1,511
ASPHALT PAVED/CONCRETE	6,760

	PROPOSED	EXISTING
	WATERMAIN & GATE VALVE	
SANITARY MANHOLE & PIPE		
STORM MANHOLE & PIPE		
UTILITY POLE & LINES		
EDGE OF PAVEMENT		
LOTLINE		
WATER LATERAL		
SANITARY LATERAL		
STORM LATERAL		
CATCH BASIN LEAD		
SWALE/DITCH		
CATCH BASIN		
FIRE HYDRANT		
SHRUB		
SILT FENCE		
FENCE		

NOTES

DRAWINGS SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION



NO.	DESCRIPTION	CHKD	DATE
4	ISSUED FOR DEVELOPMENT AGREEMENT		15/05/2023
3	SITE PLAN REVISED		28/04/2023
2	ISSUED FOR PERMIT		02/11/2022
1	ISSUED FOR COORDINATION		17/01/2022
0	ISSUED FOR REVIEW		06/05/2021

SEAL

HGB Engineering Inc.
 Land Surveyors
 Consulting Engineers

153 Sackville Drive, Suite 1, Lower Sackville, NS, B4C 2R3
 Phone: (902) 880-1354
 www.hge-inc.ca

CLIENT NAME & ADDRESS

METLINK INVESTMENTS
 Dartmouth, Nova Scotia

PROJECT NAME & ADDRESS
FOODLAND
 Hwy No. 7, Head of Jeddore, Nova Scotia

SHEET DESCRIPTION
STORMWATER MANAGEMENT PLAN

SHEET NO.	NUMBER OF SHEETS
4	5

DRAWN BY: MLP DATE: 10/05/2023 SCALE: 1:300 CHECKED BY: DTH PROJECT NO: H27014

STORM MANAGEMENT SUMMARY	
1 IN 5 yr, 24hr EVENT	POST-DEVELOPED CONTROLLED PEAK FLOW = 110 L/S EXISTING PEAK FLOW = 124 L/S
1 IN 10 yr, 24hr EVENT	POST-DEVELOPED CONTROLLED PEAK FLOW = 126 L/S EXISTING PEAK FLOW = 156 L/S
1 IN 25 yr, 24hr EVENT	POST-DEVELOPED CONTROLLED PEAK FLOW = 137 L/S EXISTING PEAK FLOW = 181 L/S
1 IN 50 yr, 24hr EVENT	POST-DEVELOPED CONTROLLED PEAK FLOW = 163 L/S EXISTING PEAK FLOW = 207 L/S
1 IN 100 yr, 24hr EVENT	POST-DEVELOPED CONTROLLED PEAK FLOW = 235 L/S EXISTING PEAK FLOW = 287 L/S

STORM SYSTEM SUBCATCHMENT AREAS & SCS RUNOFF COEFFICIENTS - POST DEVELOPMENT

SUBCATCHMENT AREAS	SCS "CN" VALUES	SUBCATCHMENT AREAS	SCS "CN" VALUES
(A1)	0.168 Ha 98	(A4)	0.176 Ha 97
(A2)	0.107 Ha 98	(A5)	0.146 Ha 98
(A3)	0.146 Ha 98	(A6)	0.201 Ha 91

- NOTES:
1. SYNTHETIC DESIGN STORM DISTRIBUTION ASSUMES ANNUAL HALIFAX STORM OF 24 HOUR DURATION.
 2. PIPE CAPACITY BASED ON MANNING'S EQUATION: n=0.013 FOR CONC. (GREATER THAN OR EQUAL TO 450mm), n=0.010 FOR PVC (LESS THAN 450mm).
 3. POST-DEVELOPED FLOWS CONTROLLED TO PRE-DEVELOPED LEVELS VIA CONTROL MANHOLE (MHT) AND UNDERGROUND STORAGE CHAMBER.
 4. EXISTING AVERAGE RUNOFF COEFFICIENT: CN=79.
 5. AREA 6 TO BE UNCONTROLLED FLOW.

STORM DRAINAGE CRITERIA (SCS METHOD)							
POST DEVELOPMENT - 1 IN 5 yr, 24hr EVENT							
PIPE SYSTEM	SUB CATCHMENT AREAS	CONTRIBUTING AREAS (ha ±)	CN (I/A)	QIN (L/s)	QOUT (L/s)	DOWNSCREEN PIPES	
						SIZE (mm)	SLOPE (%) CAPACITY (L/s)
CB1	A1	0.168	35	35	200	2.0	60
CB2	A1-A2	0.275	58	58	200	3.0	74
CB3	A1-A3	0.421	88	88	250	4.0	155
CB4	A4	0.176	37	37	200	2.0	60
BLDG	A5	0.146	31	31	200	2.0	60
MHT1	A4-A5	0.322	67	67	250	2.0	109
MHT2	A1-A5	0.743	156	70	300	6.0	308
UNCONTROLLED	A6	0.359	50				

CONSTRUCTION NOTES

GENERAL

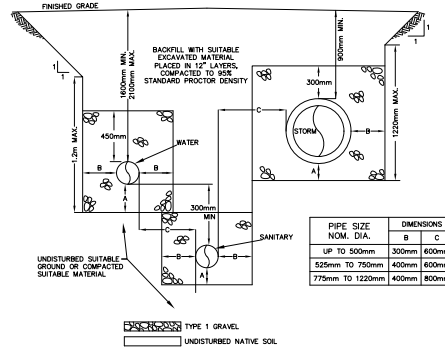
1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH HALIFAX REGIONAL MUNICIPALITY (HRM) MUNICIPAL SERVICE SYSTEMS GUIDELINES, LATEST EDITION.
2. ALL WORKS TO BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
3. ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROAD BUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA, CURRENT EDITION.
4. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH HALIFAX WATER (HW) DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
5. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF NOVA SCOTIA ENVIRONMENT (NSE).
6. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS. COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
7. CONTRACTOR TO VERIFY EXISTING SERVICE LOCATIONS IN FIELD PRIOR TO CONSTRUCTION. DISCREPANCIES TO BE REPORTED IMMEDIATELY TO PROJECT ENGINEER.
8. CONTRACTOR TO NOTIFY HALIFAX REGIONAL MUNICIPALITY AND HALIFAX WATER REGARDING CONSTRUCTION SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.
9. CONTRACTOR TO VERIFY EXISTING SERVICE LOCATIONS SUCH AS NATURAL GAS SERVICE, ALIANT SERVICES, AND NSP SERVICES. COORDINATION TO BE COMPLETED WITH THE APPROPRIATE UTILITIES PRIOR TO CONSTRUCTION.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH AND UNDERSTAND THE NATURE AND EXTENT OF THE WORK TO BE EXECUTED, THE NATURE OF THE SOIL, SURFACE WATER DRAINAGE, THE GENERAL FORM OF THE SURFACE OF THE GROUND, AND GENERALLY OF ALL MATTERS WHICH CAN IN ANY WAY INFLUENCE THE TENDER.
11. CONTRACTOR TO VERIFY LOCATIONS FOR SERVICE CONNECTIONS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER IMMEDIATELY.
12. CONTRACTOR TO VERIFY EXISTING GRADES, INCLUDING SURROUNDING GRADES, PRIOR TO LOT GRADING WORK. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY. MINIMUM SLOPE TO BE 0.7% FOR PARKING AREA. MAXIMUM SLOPE FOR LANDSCAPED AREAS 3% MAX.
13. CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ADEQUATE TEMPORARY BRACING AND SHORING OF ALL STRUCTURAL ELEMENTS FOR STABILITY AND SAFETY WHERE REQUIRED DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY MEASURES DURING THE WORK.
15. CONTRACTOR TO REINSTATE ALL DISTURBED AREAS OUTSIDE OF THE LIMIT OF CONSTRUCTION TO PRE-CONSTRUCTION OR BETTER CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR REINSTATING ALL TREES, POLES, SIGNS, PIPEWORK, SIDEWALK, SOD ETC. FOLLOWING CONSTRUCTION.
16. DRAWINGS SUBJECT TO APPROVAL BY HRM AND HW PRIOR TO CONSTRUCTION.
17. GEOTECHNICAL WORKS TO BE CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
18. TESTING OF SITE SERVICES TO BE TO STANDARDS OF HW AND HW.
19. LOT GRADING TO BE PERFORMED SUCH THAT RUNOFF IS DIRECTED INTO SWALES AND CATCHBASINS AND DISCHARGED AT CURB OR REAR LOT BOUNDARY.
20. PROVIDE FILL ON LOTS TO PREVENT PONDING AS DIRECTED BY ENGINEER.
21. INSTALLATION AND TESTING OF WATERMAIN AND SANITARY SERVICES ON PRIVATE PROPERTY TO BE PERFORMED IN ACCORDANCE WITH HW DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION. THIS INCLUDES BUT IS NOT LIMITED TO, SANITARY MANHOLE TESTING, SANITARY AND WATERMAIN PRESSURE TESTING, WATERMAIN DISINFECTION, AND SANITARY AND STORM SEWER WEG.
22. NEITHER THE WATER SYSTEM NOR THE SANITARY SYSTEM IS TO BE PLACED INTO SERVICE UNTIL ALL TESTING IS PERFORMED, PASSED AND APPROVED BY THE ENGINEER.
23. THE CONTRACTOR SHALL ADVISE THE ENGINEER AT LEAST TWO DAYS IN ADVANCE OF ANY SERVICE (SANITARY, STORM OR WATER) INSTALLATION. NO PIPE WORK SHALL BE BURIED UNTIL APPROVAL IS GIVEN BY THE ENGINEER.
24. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILTATION RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURE MAY BE OBTAINED FROM "TERROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" CURRENT EDITION BY NOVA SCOTIA ENVIRONMENT. THE CONTRACTOR SHALL MAKE NECESSARY REPAIRS TO SEDIMENTATION AND EROSION CONTROL DEVICES AS DIRECTED BY DEVELOPERS ON SITE REPRESENTATIVE.
25. CONTRACTOR TO INSPECT SEDIMENT AND EROSION CONTROL STRUCTURES AND MAKE NECESSARY REPAIRS BEFORE AND AFTER EVERY RAINFALL EVENT.
26. CONTRACTOR TO COORDINATE WITH TELEPHONE AND POWER UTILITY REGARDING EXISTING UNDERGROUND CONDUIT LOCATIONS AND REPORT ANY CONFLICTS TO ENGINEER.
27. LOCATION AND INVERTS OF EXISTING SERVICES TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.

27. WHERE LATERALS CONNECT TO MANHOLES, PROPER BENCHING TO BE CONSTRUCTED TO DIRECT FLOW INTO OUTLET PIPE.
28. INSULATION TO BE #4 HD RAO AND TRAFFIC RATED, 50mm RIGID STYROFOAM, WHERE REQUIRED.
29. 6.0m LONG PVC DR18 SLEEVE c/w LINK SEALS TO BE INSTALLED WHEN 450mm VERTICAL SEPARATION CANNOT BE ACHIEVED AT WATERMAIN CROSSINGS OR WHEN SEWER CROSSSES ABOVE WATERMAIN. SLEEVE TO BE CENTERED ON CROSSING.
30. WHERE TRENCH ROCK IS ENCOUNTERED AT THE END OF A PIPE RUN, ROCK IS TO BE OVERBENT 15cm, AT FULL TRENCH WIDTH, BEYOND END OF PIPE.
31. ALL MANHOLES LOCATED OFF STREET TRAVELLED WAY TO HAVE BOLT DOWN COVERS.
32. CONTRACTOR TO CONTACT PROJECT ENGINEER AND HRM INSPECTOR FOR SITE REVIEW AT THE FOLLOWING STAGES:
32.a. GRUBBING COMPLETED
32.b. SUBGRADE COMPLETED
32.c. TYPE 2 GRAVEL COMPLETED
32.d. TYPE 1 GRAVEL COMPLETED
APPROVAL FROM PROJECT ENGINEER AT EACH STAGE TO BE RECEIVED IN WRITING PRIOR TO START OF WORK ON NEXT STAGE.
33. DO NOT SUBSTITUTE MATERIALS UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE PROJECT ENGINEER.
34. ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL TO BE HYDROSEEDDED. CONTRACTOR TO RE-HYDROSEED AREAS WHICH DO NOT SHOW SIGNS OF ACTIVE GROWTH IN THE FIRST GROWING SEASON.
35. EXISTING SERVICES TO BE ABANDONED BACK AT MAIN LINE.

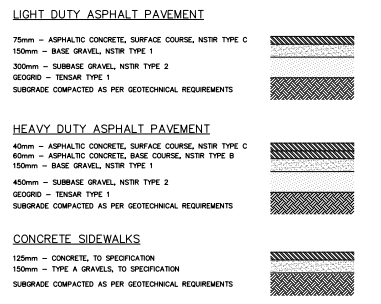
WATER

51. CONTRACTOR IS RESPONSIBLE FOR THE TESTING AND DISINFECTION OF WATERMANS AND LATERALS TO HW STANDARDS AND SPECIFICATIONS.
52. PROVIDE A MINIMUM OF 1.0m OF HORIZONTAL SEPARATION BETWEEN ALL FITTINGS.
53. PROVISIONS FOR FLUSHING THE LINES PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm# AND LARGER PIPES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, SAME SIZE AS THE LINES. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ON TO A PARKING LOT, SLOOED AREA OR DITCH. FLUSHING OUTLET TO BE 100mm# OR, A HYDRANT.
54. ALL VALVES TO CLOSE IN THE CLOCKWISE DIRECTION AS INDICATED ON HW STANDARD DRAWING #100. GATE VALVES TO BE USED FOR VALVES 300mm# AND SMALLER, 350mm# AND LARGER TO BE BUTTERFLY VALVES.
55. ALL WATERMAIN VALVES NOT INSTALLED IN A ROADWAY OR PAVED SURFACE TO HAVE ASPHALT APRON AS PER HW STANDARD DRAWING NO. 3035. VALVES INSTALLED IN ROADS ONLY CONSTRUCTED TO SUBGRADE TO ALSO HAVE ASPHALT APRONS.
56. WATER LATERAL TO BE TYPE "C" COPPER (38mm#) AND BE INSTALLED IN ACCORDANCE WITH HW DETAIL HWSD-180.

F TYPICAL TRENCH DETAIL

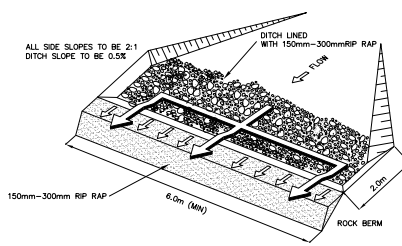


E TYPICAL PAVEMENT SECTIONS

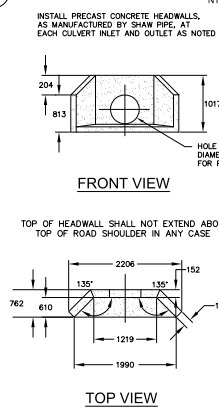


- NOTES:
1. DIMENSIONS ARE GOVERNED BY THE LARGER ADJACENT PIPE.
 2. DIMENSION 'A' IS FOR GRANULAR BEDDING DETAIL AND EQUALS 20% OF THE NOMINAL DIAMETER OR 150mm WHICHEVER IS GREATER. 300mm BEDDING IN ROCK.
 3. LATERAL TRENCH PAY WIDTH 1000mm FOR MAXIMUM COMBINED PIPE DIAMETERS UP TO 300mm.
 4. PAYMENT WIDTH FOR STRUCTURES TO BE 300mm OUTSIDE THE OUTER WALL OF STRUCTURES.
 5. DIMENSIONS GIVEN ARE FOR PAYMENT PURPOSES ONLY. ACTUAL CONSTRUCTION WIDTHS SHALL BE IN ACCORDANCE WITH THE NLS CONSTRUCTION SAFETY ACT.
 6. TRENCH WORK TO BE DONE IN STRICT COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. TRENCH MUST BE EXCAVATED SUCH THAT MAXIMUM VERTICAL WALLS ARE 1200mm (4'0") HIGH AND THEN TRENCH WALLS SLOPE NOT STEEPER THAN 1 TO 1. IF THE CONTRACTOR CAN NOT ACHIEVE THE REQUIRED MAXIMUM HEIGHT AND SLOPE, THE WORK MAY ONLY PROCEED WITH THE USE OF AN APPROVED TRENCH CAGE.

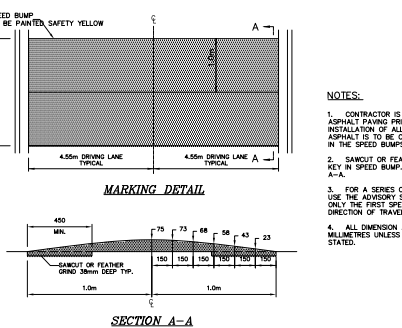
G DISPERSION APRON DETAIL



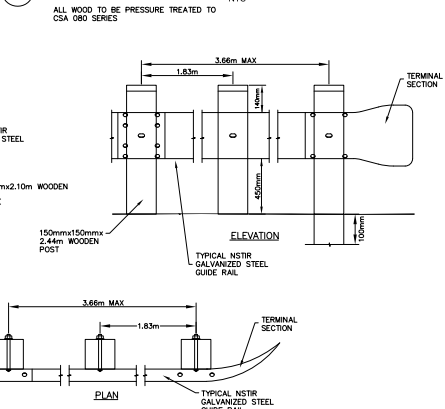
I HEADWALL DETAIL



J TYPICAL SPEED BUMP DETAIL



H GUARDRAIL DETAIL



LEGEND	PROPOSED	EXISTING
	EDGE OF PAVEMENT	---
EDGE OF GRAVEL	---	---
CURB	---	---
SWALE / DITCH	---	---
UTILITY POLE & LINES	---	---
UTILITY POLE & LINES	---	---
LOTLINE	---	---
EASEMENT	---	---
CATCH BASIN	---	---
LIGHT STANDARD	---	---
CULVERT	---	---
FIRE HYDRANT	---	---
HEADWALL	---	---
SHRUB	---	---
UTILITY POLE	---	---
FENCE	---	---
SILT FENCE	---	---
ROAD SIGN	---	---
SIDEWALK	---	---

NOTES

1. CONTRACTOR IS TO COMPLETE ASPHALT PAVING PRIOR TO INSTALLATION OF SPEED BUMPS. ASPHALT IS TO BE CUT BACK TO KEY IN THE SPEED BUMP.
2. SAND/OT OR FEATHER GRND TO KEY IN SPEED BUMP. SEE SECTION A-A.
3. FOR A SERIES OF SPEED BUMPS, USE THE ADVISORY SPEED PLAQUE AT ONLY THE FIRST SPEED BUMP IN EACH DIRECTION OF TRAVEL.
4. ALL DIMENSION ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

DRAWINGS SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION

NO.	DESCRIPTION	CHKD	DATE
4	ISSUED FOR DEVELOPMENT AGREEMENT		10/05/2023
3	SITE PLAN REVISED		28/04/2023
2	ISSUED FOR PERMIT		02/11/2022
1	ISSUED FOR COORDINATION		17/01/2022
0	ISSUED FOR REVIEW		06/05/2021

SEAL

HGE Engineering Inc.
 Land Surveyors
 Consulting Engineers

153 Sackville Drive, Suite 1, Lower Sackville, NS, B4C 2R3
 Phone: (902) 880-1354
 www.hge-inc.ca

REGISTERED PROFESSIONAL ENGINEER
 10-MAY-2023
 D.T. HOLLOWAY
 8597
 PROVINCE OF NOVA SCOTIA

CLIENT NAME & ADDRESS

METLINK INVESTMENTS
 Dartmouth, Nova Scotia

PROJECT NAME & ADDRESS
FOODLAND
 Hwy No. 7, Head of Jeddore, Nova Scotia

SHEET DESCRIPTION

CONSTRUCTION NOTES AND DETAILS

SHEET NO.	NUMBER OF SHEETS
5	5

DRAWN BY: MLP
 DATE: 10/05/2023
 SCALE: N/A
 CHECKED BY: DTH
 PROJECT NO: H27104