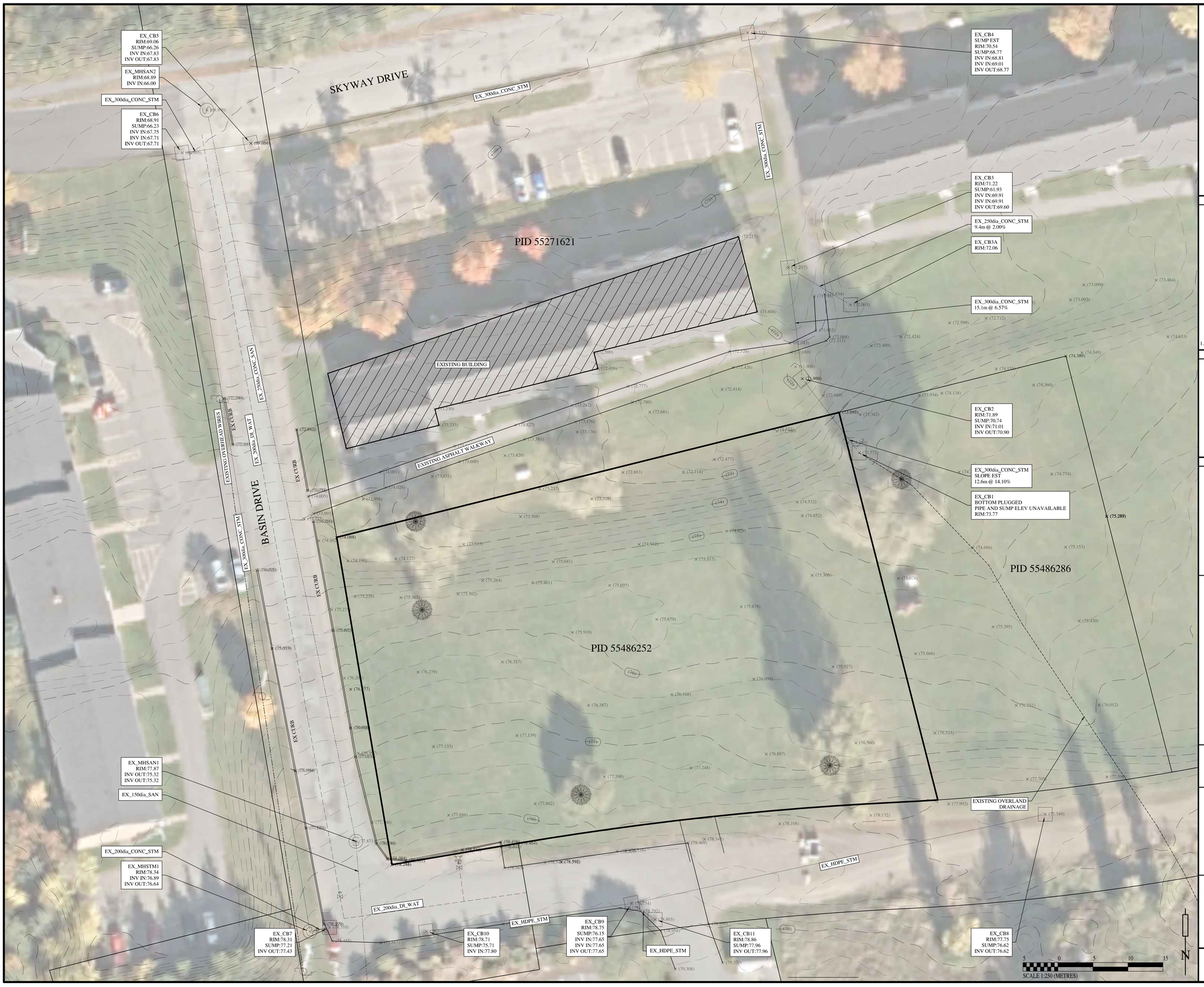


REVISIONS

1. ISSUED FOR SITE PLAN APPROVAL 220810

NOTES

STORM SEWER ENGINEERING BY T.S. CHALMERS, P.ENG.
ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANHOLE (SANITARY)	.MHSAN Ⓢ
MANHOLE (STORM)	.MHSTM Ⓢ
CATCH BASIN	.CB ☐
FIRE HYDRANT	.HYD
WATER VALVE	.WV
CALCULATED POINT	.CP
UTILITY POLE	.UP
RIGHT OF WAY	.ROW
NOT TO SCALE	.⊣ ⊢

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING

EXISTING CONDITIONS PLAN

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE 1:250

VERTICAL SCALE N/A

CLIENT/OWNER:

KENT FIELDS ESTATES LIMITED

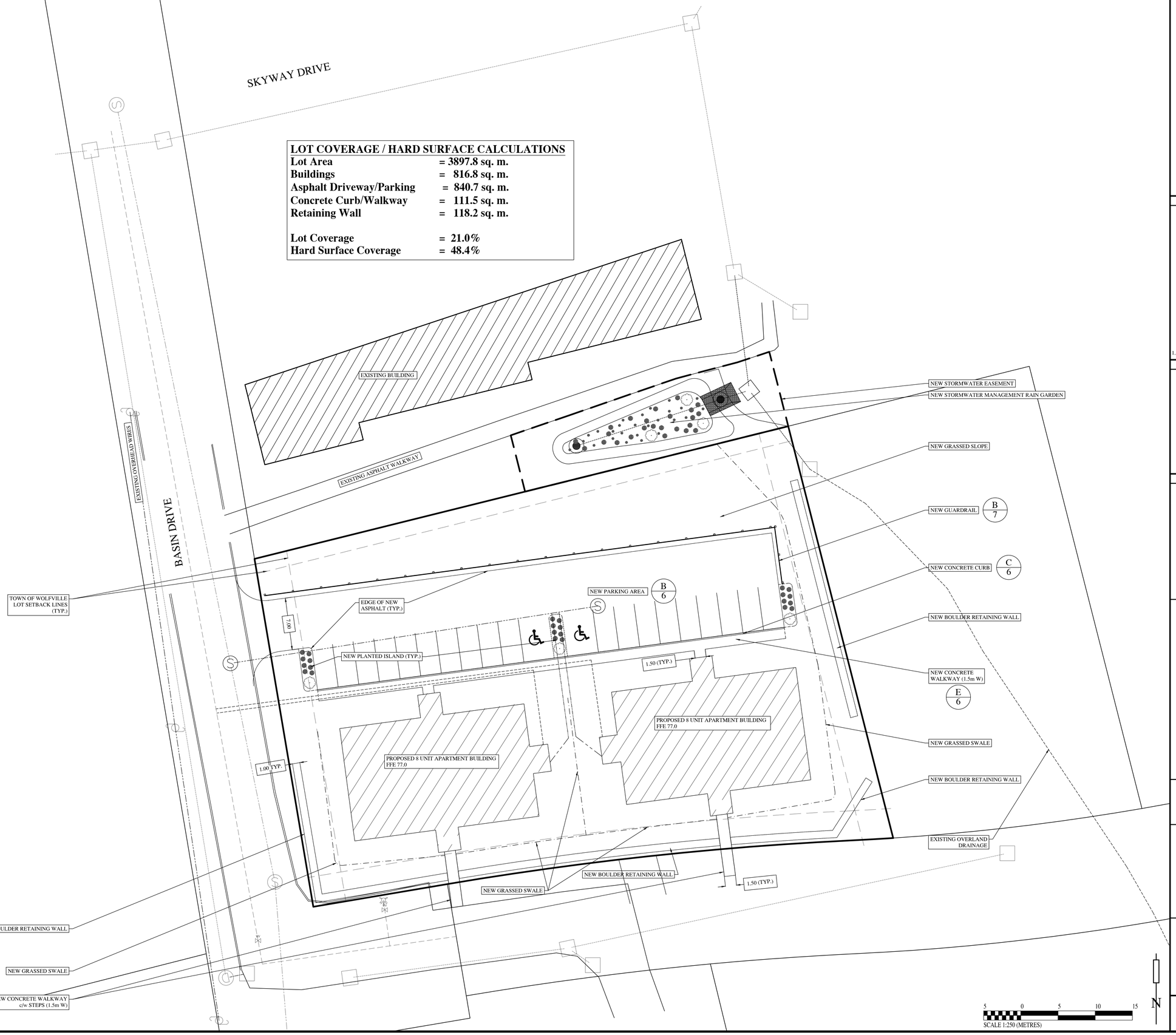
REGISTERED PROFESSIONAL ENGINEER
DATE AUG. 10, 2022
E.J. Morse
5877
PROVINCE OF NOVA SCOTIA

REGISTERED PROFESSIONAL ENGINEER
DATE AUG. 10, 2022
T. S. Chalmers
10597
PROVINCE OF NOVA SCOTIA

DeWOLFE & MORSE SURVEYING LIMITED
P.O. BOX 520 MIDDLETON
ANNAPOLIS COUNTY, N.S.
BOS - 1P0
Email: info@demosl.ca

DRAFTED ON AUGUST 10, 2022

PLAN NO: 2022-148 SHEET 1 OF 9



LOT COVERAGE / HARD SURFACE CALCULATIONS

Lot Area	= 3897.8 sq. m.
Buildings	= 816.8 sq. m.
Asphalt Driveway/Parking	= 840.7 sq. m.
Concrete Curb/Walkway	= 111.5 sq. m.
Retaining Wall	= 118.2 sq. m.
Lot Coverage	= 21.0%
Hard Surface Coverage	= 48.4%

REVISIONS

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NOTES

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LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
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MANHOLE (STORM)	.MHSTM
CATCH BASIN	.CB
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WATER VALVE	.WV
CALCULATED POINT	.CP
UTILITY POLE	.UP
RIGHT OF WAY	.ROW
NOT TO SCALE	

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING PROPOSED

SITE PLAN

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE 1:250

VERTICAL SCALE N/A

CLIENT/OWNER:

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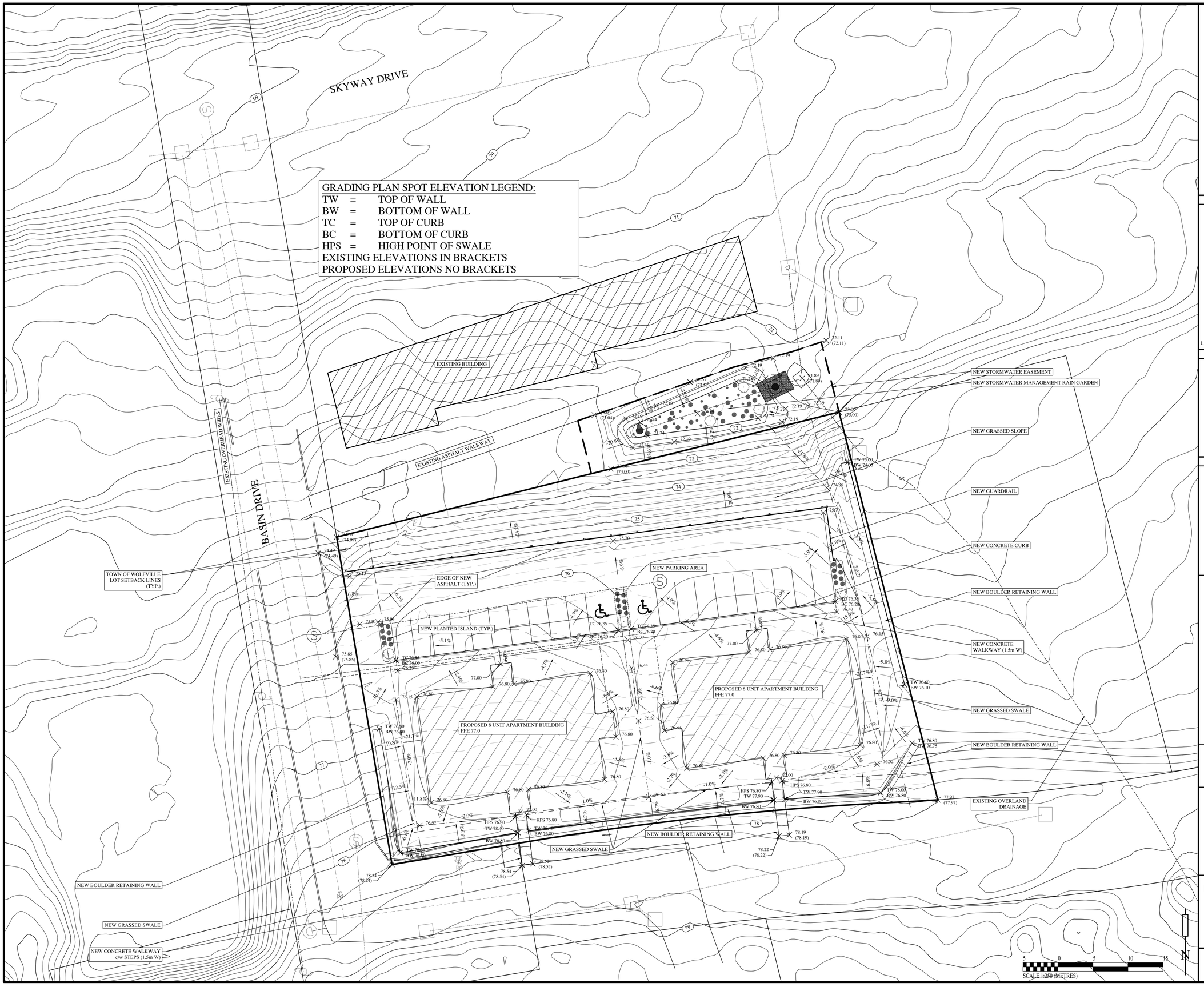
DRAFTED ON AUGUST 10, 2022

PLAN NO: 2022-148 SHEET 2 OF 9



REVISIONS

1. ISSUED FOR SITE PLAN APPROVAL 220810

NOTES

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ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANHOLE (SANITARY)	.MHSAN
MANHOLE (STORM)	.MHSTM
CATCH BASIN	.CB
FIRE HYDRANT	.HYD
WATER VALVE	.WV
CALCULATED POINT	.CP
UTILITY POLE	.UP
RIGHT OF WAY	.ROW
NOT TO SCALE	

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING PROPOSED

GRADING PLAN

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE 1:250

VERTICAL SCALE N/A

CLIENT/OWNER:

KENT FIELDS ESTATES LIMITED

REGISTERED PROFESSIONAL ENGINEER
DATE AUG. 10, 2022
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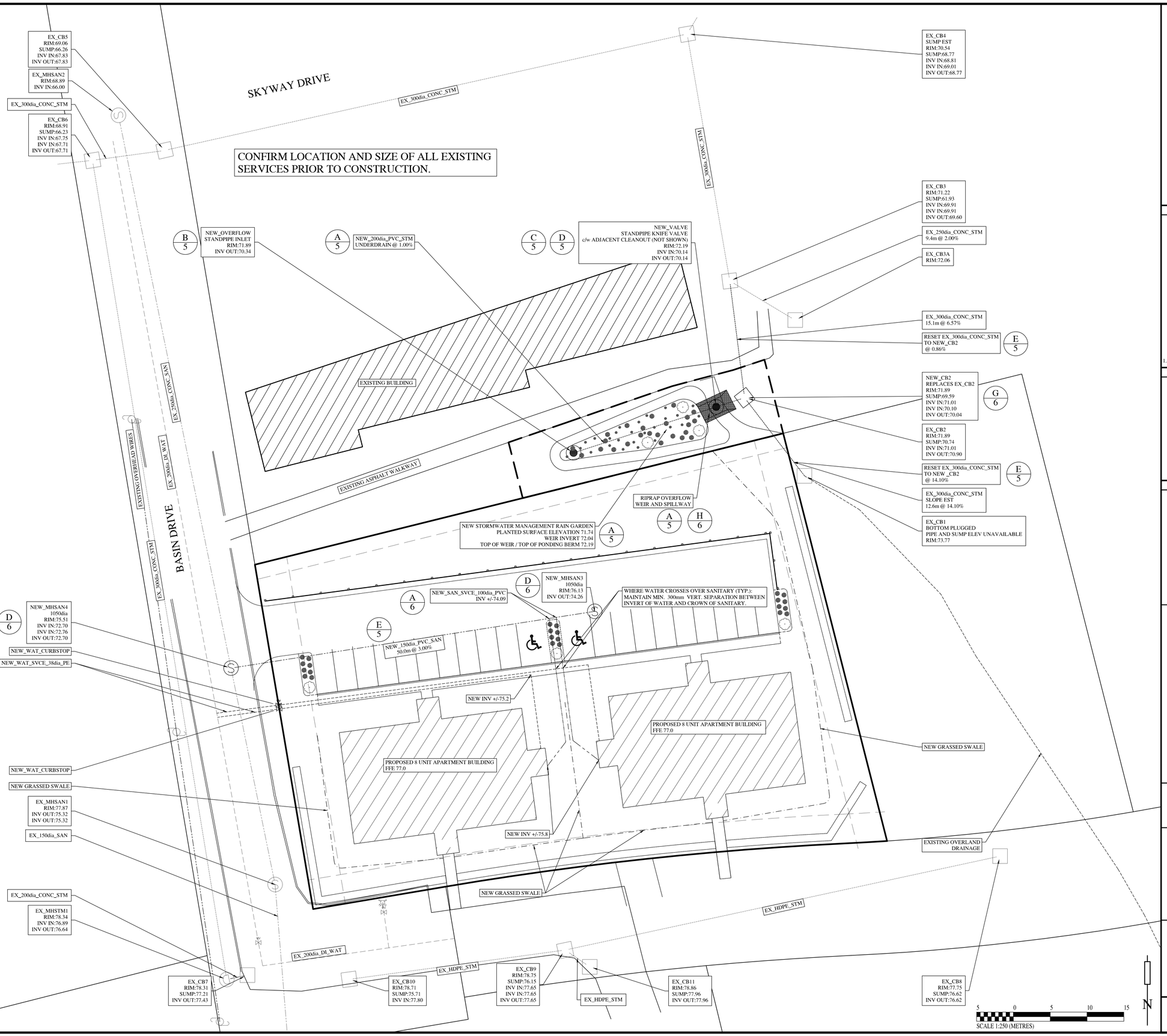
PLAN NO: 2022-148 SHEET 3 OF 9



REVISIONS

1. ISSUED FOR SITE PLAN APPROVAL 220810

NOTES

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ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANHOLE (SANITARY)	.MHSAN
MANHOLE (STORM)	.MHSTM
CATCH BASIN	.CB
FIRE HYDRANT	.HYD
WATER VALVE	.WV
CALCULATED POINT	.CP
UTILITY POLE	.UP
RIGHT OF WAY	.ROW
NOT TO SCALE	

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING PROPOSED

SERVICING PLAN

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE 1:250

VERTICAL SCALE N/A

CLIENT/OWNER:

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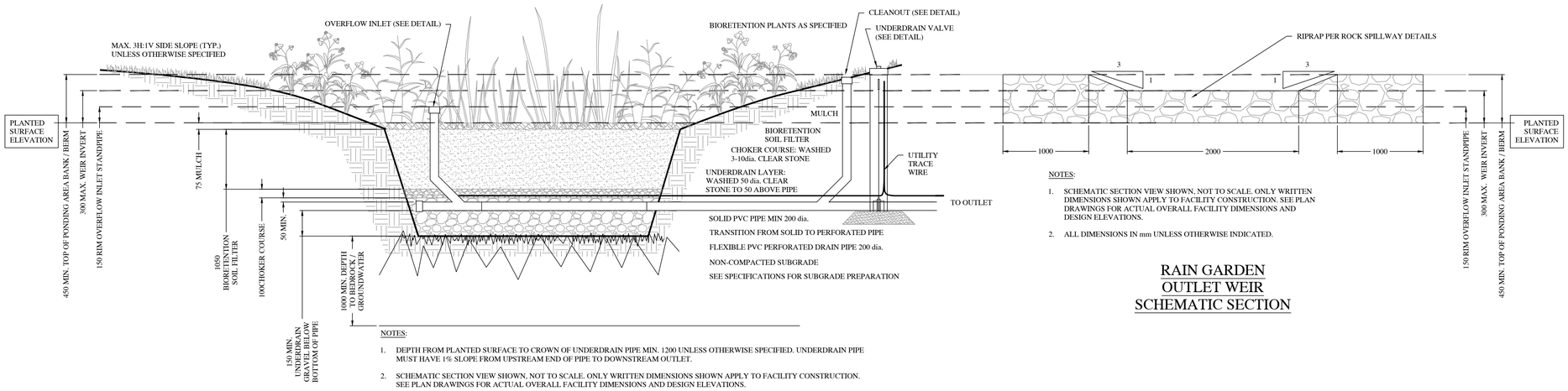
PLAN NO: 2022-148 SHEET 4 OF 9



NOTES:

1. DEPTH FROM PLANTED SURFACE TO CROWN OF UNDERDRAIN PIPE MIN. 1200 UNLESS OTHERWISE SPECIFIED. UNDERDRAIN PIPE MUST HAVE 1% SLOPE FROM UPSTREAM END OF PIPE TO DOWNSTREAM OUTLET.
2. SCHEMATIC SECTION VIEW SHOWN, NOT TO SCALE. ONLY WRITTEN DIMENSIONS SHOWN APPLY TO FACILITY CONSTRUCTION. SEE PLAN DRAWINGS FOR ACTUAL OVERALL FACILITY DIMENSIONS AND DESIGN ELEVATIONS.
3. ALL DIMENSIONS IN mm UNLESS OTHERWISE INDICATED.
4. SEE NOTES AND SPECIFICATIONS FOR MATERIALS SPECIFICATIONS.

RAIN GARDEN SCHEMATIC SECTION

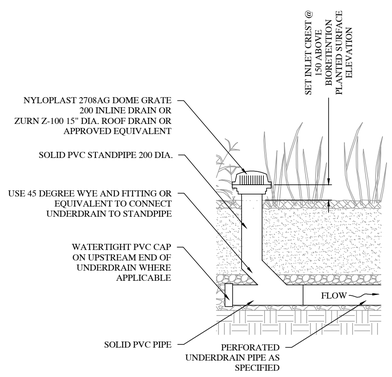
NOTES:

1. SCHEMATIC SECTION VIEW SHOWN, NOT TO SCALE. ONLY WRITTEN DIMENSIONS SHOWN APPLY TO FACILITY CONSTRUCTION. SEE PLAN DRAWINGS FOR ACTUAL OVERALL FACILITY DIMENSIONS AND DESIGN ELEVATIONS.
2. ALL DIMENSIONS IN mm UNLESS OTHERWISE INDICATED.

RAIN GARDEN OUTLET WEIR SCHEMATIC SECTION

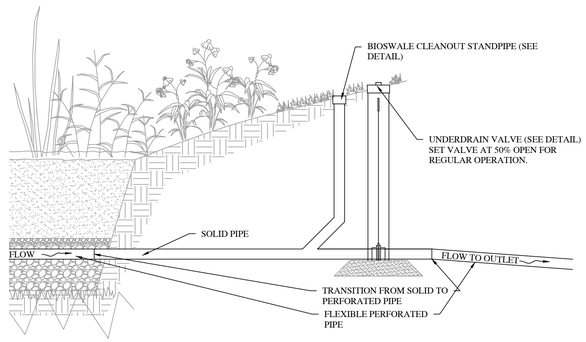
A RAIN GARDEN AND OUTLET WEIR SCHEMATICS

N.T.S.



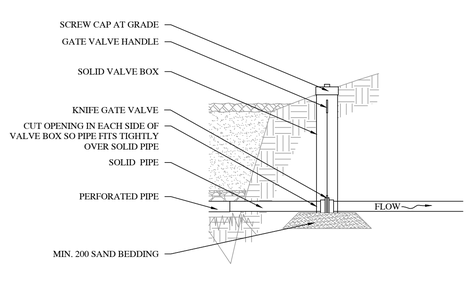
B RAIN GARDEN OVERFLOW STANDPIPE

N.T.S.



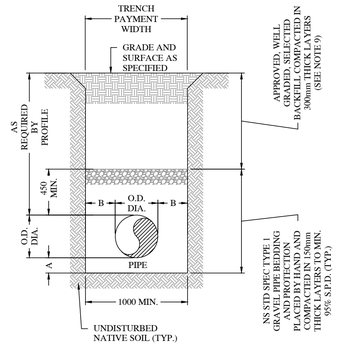
C RAIN GARDEN OUTLET CONFIGURATION

N.T.S.

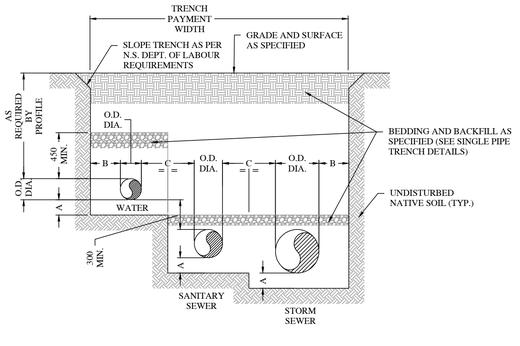


D RAIN GARDEN UNDERDRAIN VALVE

N.T.S.



TYPICAL SINGLE PIPE TRENCH



TYPICAL MULTIPLE PIPE TRENCH

PIPE SIZE NOM. DIA.	DIMENSIONS "B"	"C"
UP TO 375	300	500
376 TO 500	300	600
501 TO 750	400	600
751 TO 1200	400	750
OVER 1200	SEE PROJECT DRAWINGS	

NOTES

1. DIMENSIONS ARE GOVERNED BY THE LARGER ADJACENT PIPE (FIG. 2).
2. ACTUAL ELEVATIONS OF ALL PIPES TO BE AS SHOWN ON PROFILES.
3. DIMENSION "A" EQUALS 25% OF THE NOMINAL DIAMETER OR 250mm WHICHEVER IS GREATER.
4. LATERAL TRENCH PAY WIDTH 1000mm FOR MAXIMUM COMBINED PIPE DIAMETERS UP TO 300mm.
5. PAYMENT WIDTH FOR STRUCTURES TO BE 300mm OUTSIDE THE OUTER WALL OF STRUCTURES.
6. DIMENSIONS GIVEN ARE FOR PAYMENT PURPOSES ONLY. ACTUAL CONSTRUCTION WIDTHS SHALL BE IN ACCORDANCE WITH THE REGULATIONS AND REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENT AND LABOUR.
7. IF CROWNS OF STORM AND SANITARY SEWER PIPES ARE NOT MATCHED, STORM PIPE INVERT MUST BE AT LEAST 100mm BELOW SANITARY PIPE INVERT.
8. MINIMUM 300mm BEDDING COURSE COVER OVER SANITARY AND STORM SEWER PIPES.
9. SELECTED STRUCTURAL BACKFILL - TOP 300mm COMPACTED TO MIN. 98% SP.D., BELOW TOP 300mm COMPACTED TO MIN. 95% S.P.D.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

E PIPE TRENCHES

N.T.S.

REVISIONS

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NOTES

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ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANHOLE (SANITARY)	.MHSAN
MANHOLE (STORM)	.MHSTM
CATCH BASIN	.CB
FIRE HYDRANT	.HYD
WATER VALVE	.WV
CALCULATED POINT	.CP
UTILITY POLE	.UP
RIGHT OF WAY	.ROW
NOT TO SCALE	

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING PROPOSED

DETAILS I

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE AS SHOWN

VERTICAL SCALE AS SHOWN

CLIENT/OWNER:

KENT FIELDS ESTATES LIMITED

REGISTERED PROFESSIONAL ENGINEER
DATE AUG. 10, 2022
E.J. Morse
5877
PROVINCE OF NOVA SCOTIA

REGISTERED PROFESSIONAL ENGINEER
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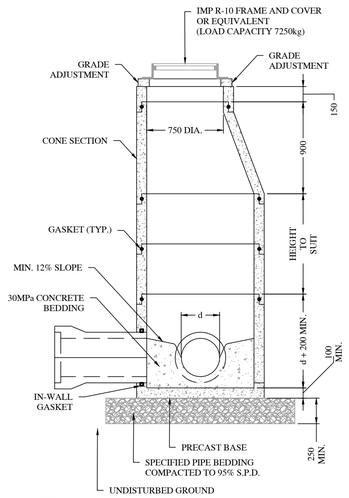
DRAFTED ON AUGUST 10, 2022

PLAN NO: 2022-148 SHEET 5 OF 9

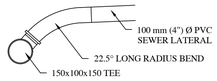


NOTES

1. WATERPROOFING MEMBRANE TO BE APPLIED TO GRADE RINGS/ SHAFT, PRECAST SECTIONS, AND BASE (BAKOR BLUESKIN OR APPROVED EQUIVALENT).
2. MANHOLE BOTTOMS SHALL HAVE CONCRETE BENCHING TO CHANNELIZE FLOW.
3. MANHOLE BENCHING SHALL SLOPE TOWARDS THE FLOW CHANNEL AT 4H:1V.
4. MANHOLE BENCHING SHOULD BE PLACED UP TO 2/3 PIPE DIAMETER TO CHANNEL FLOW THROUGH MANHOLE BASE.
5. WHERE SERVICE LATERALS ENTER A MANHOLE, THEY MUST ENTER THROUGH THE BASE, ALL THE WAY TO THE FLOW CHANNEL, BELOW THE TOP OF THE BENCHING.
6. MANHOLE SHOP DRAWINGS MUST BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
7. BACKFILL AROUND MANHOLES SHALL BE TYPE 2 GRAVEL EXTENDING MIN. 300mm OUTWARD FROM MANHOLE AND VERTICALLY FROM BEDDING MATERIAL TO UNDERSIDE OF ROADBED GRAVELS.
8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

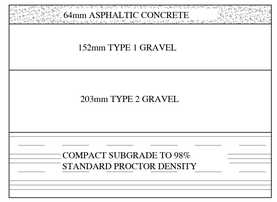
A TYPICAL SANITARY SEWER LATERAL

N.T.S.



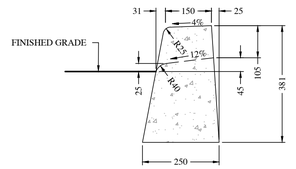
B PAVEMENT STRUCTURE

1:10



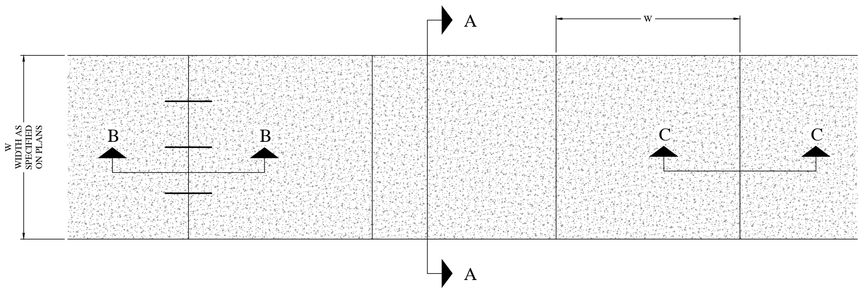
C TYPICAL CONCRETE CURB

1:10

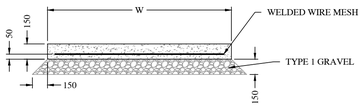


NOTES

1. DASHED LINE INDICATES CURB AT DRIVEWAYS - SLOPE AS SHOWN UNLESS SPECIFIED OTHERWISE ON GRADING PLAN.
2. PROVIDE TRANSITION TAPERS AT DRIVEWAY'S AND PEDESTRIAN RAMPS AS PER "PEDESTRIAN RAMP ALIGNMENT" DETAIL AND "DRIVEWAY RAMP" DETAIL.
3. ALL DIMENSIONS IN mm UNLESS OTHERWISE INDICATED.



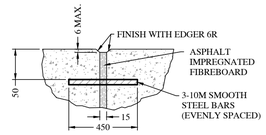
PLAN VIEW



SECTION A-A

NOTES

1. SIDEWALK TO HAVE 150mm THICK CONCRETE WITH 150 x 150 - M.W. 18.7 x M.W. 18.7 WELDED WIRE MESH PLACED 50mm FROM BOTTOM.
2. SIDEWALK GRAVEL BASE TO BE 150mm THICK TYPE 1 GRAVEL COMPACTED TO 95% DENSITY. BASE MATERIAL MUST EXTEND 150mm BEYOND EDGES OF SIDEWALK STRUCTURE.
3. CONTROL JOINTS ARE TO BE SAWCUT.
4. EXPANSION JOINTS TO BE PLACED AT MAX. 50m SPACING ALONG LENGTH OF SIDEWALK. EXPANSION JOINT BARS TO BE GREASED ON ONE SIDE OF EXPANSION JOINT.
5. DURING CONSECUTIVE POURS, THE END OF EACH POUR IS TO OCCUR AT AN EXPANSION JOINT. WHERE THIS IS NOT FEASIBLE, AND ADDITIONAL EXPANSION JOINT IS TO BE INSTALLED.



NOTES

1. ALL DIMENSIONS IN mm UNLESS OTHERWISE INDICATED.

SECTION C-C : EXPANSION JOINT

SECTION D-D : CONTROL JOINT

D 1050dia PRECAST MANHOLE

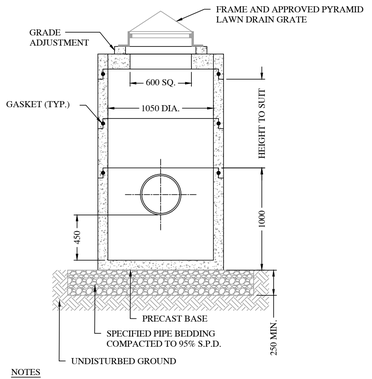
1:30

E TYPICAL CONCRETE SIDEWALK

N.T.S.

F SIDEWALK JOINTS

N.T.S.

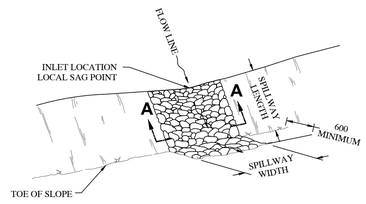


NOTES

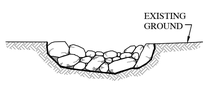
1. WATERPROOFING MEMBRANE TO BE APPLIED TO GRADE RINGS/ SHAFT, PRECAST SECTIONS, AND BASE (BAKOR BLUESKIN OR APPROVED EQUIVALENT).
2. CATCHBASIN SHOP DRAWINGS MUST BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
3. BACKFILL AROUND CTACHBASINS SHALL BE TYPE 2 GRAVEL EXTENDING MIN. 300mm OUTWARD FROM CATCHBASIN AND VERTICALLY FROM BEDDING MATERIAL TO UNDERSIDE OF STRUCTURAL GRAVELS FOR FINISHED GRADE.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

G 1050dia PRECAST LAWN CATCHBASIN

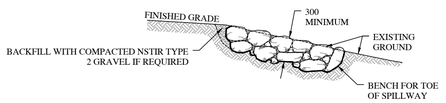
1:30



PERSPECTIVE VIEW

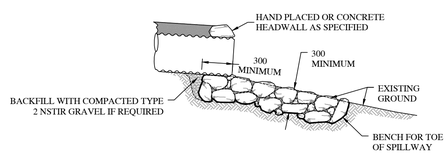


SECTION A-A



ELEVATION VIEW

ROCK SPILLWAY FOR DAYLIGHT DRAINAGE LOCATION



ELEVATION VIEW

ROCK SPILLWAY FOR CULVERT OUTLET

NOTES

1. COMPACT BACKFILL IN 150mm LIFTS UNTIL NO VISUAL DISPLACEMENT.
2. UNLESS OTHERWISE SPECIFIED WHEN ROCK SPILLWAY IS REQUIRED DIMENSION SHALL BE 1000mm WIDE X 300mm DEEP X 1500mm LONG. THE AREA SHALL BE SUBEXCAVATED 300mm PRIOR TO PLACEMENT OF THE SPILLWAY SO THE FINISHED SURFACE OF THE RIPRAP WILL BE AT THE SAME ELEVATION AS THE ADJACENT FINISHED GRADE.
3. UNLESS OTHERWISE SPECIFIED SPILLWAY ROCK SHALL BE NS STANDARD SPECIFICATION FOR MUNICIPAL SERVICES CLASS 1 RIPRAP (70% between 200-450mm).

H TYPICAL ROCK SPILLWAY

N.T.S.

REVISIONS

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NOTES

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ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANHOLE (SANITARY)	.MHSAN ⓢ
MANHOLE (STORM)	.MHSTM Ⓢ
CATCH BASIN	.CB □
FIRE HYDRANT	.HYD ⋈
WATER VALVE	.WV ⋈
CALCULATED POINT	.CP ✱
UTILITY POLE	.UP ○
RIGHT OF WAY	.ROW
NOT TO SCALE	.⊣ ⊢

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING PROPOSED

DETAILS II

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE AS SHOWN

VERTICAL SCALE AS SHOWN

CLIENT/OWNER:

KENT FIELDS ESTATES LIMITED

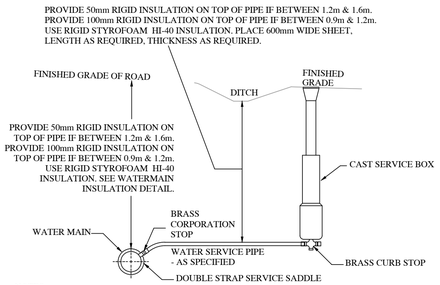
REGISTERED PROFESSIONAL ENGINEER
DATE AUG. 10, 2022
E.J. Morse
5877
PROVINCE OF NOVA SCOTIA

REGISTERED PROFESSIONAL ENGINEER
DATE AUG. 10, 2022
T. S. Chalmers
10597
PROVINCE OF NOVA SCOTIA

DeWOLFE & MORSE SURVEYING LIMITED
P.O. BOX 520 MIDDLETON
ANNAPOLIS COUNTY, N.S.
BOS - 1P0
Email: info@demosl.ca

DRAFTED ON AUGUST 10, 2022

PLAN NO: 2022-148 SHEET 6 OF 9

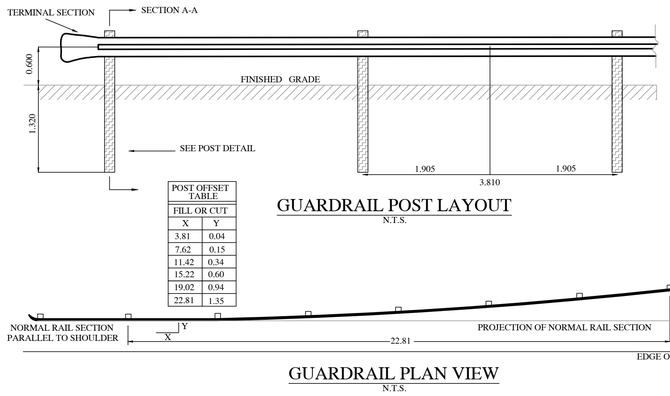


NOTES

1. ALL MEASUREMENTS IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. SERVICE CONNECTIONS TO BE MINIMUM OF 1m FROM ADJACENT SERVICE OR PIPE JOINT.

A TYPICAL WATER SERVICE CONNECTION

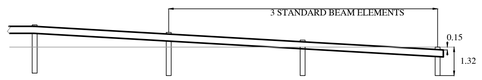
N.T.S.



POST OFFSET TABLE	
FILL OR CUT	
X	Y
3.81	0.04
7.62	0.15
11.42	0.34
15.22	0.60
19.02	0.94
22.81	1.35

GUARDRAIL POST LAYOUT
N.T.S.

GUARDRAIL PLAN VIEW
N.T.S.



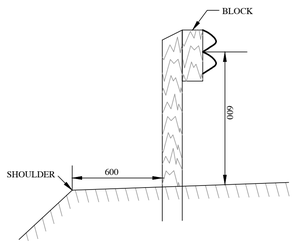
GUARDRAIL ELEVATION VIEW
N.T.S.

NOTES

1. ALL MEASUREMENTS IN METERS UNLESS OTHERWISE INDICATED.

B GUARDRAIL LAYOUT

N.T.S.

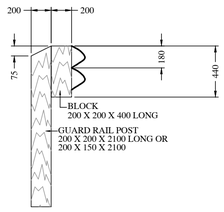


NOTES

1. ALL MEASUREMENTS IN MILLIMETERS UNLESS OTHERWISE INDICATED.

C GUARDRAIL SECTION A-A

N.T.S.



NOTES

1. ALL MEASUREMENTS IN MILLIMETERS UNLESS OTHERWISE INDICATED.

D GUARDRAIL POST DETAIL

N.T.S.

REVISIONS

1. ISSUED FOR SITE PLAN APPROVAL 220810

NOTES

STORM SEWER ENGINEERING BY T.S. CHALMERS, P.ENG.
ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANHOLE (SANITARY)	.MHSAN
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CALCULATED POINT	.CP
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DETAILS III

PID 55486252

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BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE AS SHOWN

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PLAN NO: 2022-148 SHEET 7 OF 9

NOTES

1. ALL WATER DISTRIBUTION WORKS & SANITARY SEWER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NOVA SCOTIA STANDARD SPECIFICATION FOR MUNICIPAL SERVICES (2022).
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO CONSTRUCTION (CHECK WITH COUNTY OF KINGS, TOWN OF WOLFVILLE, NSTIR, BELL ALIANT).
3. ALL VALUES BASED ON ACS 3459 EASTING: 25528619.533, NORTHING: 4983933.375, ELEVATION: 29.661m BASED ON 3° MTM PROJECTION, NAD83 (CGVD2013).
4. CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL WHERE REQUIRED.
5. THE LOCATION OF THE EXISTING WATERLINE IS APPROXIMATE.
   NEW SEWER LATERAL MUST BE SLEEVED WITH A 6 METRE LENGTH OF 300 mm DR18 PVC PIPE c/w LINK SEALS WHEN:
   - EXISTING WATERLINE CROSSES UNDER NEW SANITARY LATERAL
   - EXISTING WATERLINE CROSSES OVER NEW SANITARY LATERAL WITH LESS THAN 450 mm OF VERTICAL SEPARATION.
   - EXISTING WATERLINE IS WITHIN 3 METRES HORIZONTALLY AND 300 mm VERTICALLY OF NEW SANITARY LATERAL (DISTANCES MEASURED FROM NEAREST FACE OF WATERMAIN TO NEAREST FACE OF NEW SEWER LATERAL.
6. THRUST RESTRAINT TO BE POURED IN PLACE CONCRETE THRUST BLOCK & MECHANICAL FASTENERS TO BE USED AT ALL TEES AND CHANGES IN PIPE DIRECTION AND AS NOTED.

ENVIRONMENTAL PROTECTION NOTES:

1. CLEAN EXISTING STREETS, AS DIRECTED, TO REMOVE ANY MUD THAT MAY BE TRACKED OFF-SITE BY THE CONSTRUCTION EQUIPMENT.
2. SILT FENCE TO BE INSTALLED ALONG THE PROPERTY BOUNDARIES AS REQUIRED, BEFORE GRUBBING OR PLACING OF FILL.
3. INSTALL ADDITIONAL PROTECTION BERMS, SILT FENCES, CUTOFF DITCHES, ETC., AS REQUIRED BY SITE CONDITIONS TO PREVENT SEDIMENT FROM ENTERING PONDS OR RIVER.
4. MAINTAIN A STOCK PILE OF APPROPRIATE EROSION AND ENVIRONMENTAL PROTECTION MATERIALS AT ALL TIMES. CONTRACTOR TO COORDINATE WITH THE OWNER ON AN APPROPRIATE STORAGE AREA. THESE SHALL INCLUDE AS A MINIMUM:
   .1 200 LINEAL FEET OF SILT-FENCE
   .2 20 BALES OF HAY OR STRAW.
   .3 A STOCK PILE OF 12 CUBIC YARDS OF WOOD CHIPS.
   .4 A STOCK PILE OF 24 CUBIC YARDS OF TYPE 1 GRAVEL.
5. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES FROM THE TIME OF INSTALLATION UNTIL AFTER ALL AREAS DRAINING TOWARDS THEM HAVE BEEN TOTALLY STABILIZED.
6. STABILIZE SLOPES AND CRITICAL AS SHOWN ON THE LANDSCAPING DETAILS.
7. ANY DISTURBED AREAS WHICH MAY BE REWORKED SHALL BE STABILIZED USING WOOD CHIPS OR OTHER APPROVED METHODS WITHIN TWO WEEKS OF THE DISTURBANCE OR BEFORE A FORECAST OF A SIGNIFICANT RAINFALL EVENT. MAINTAIN IN PLACE UNTIL PLACEMENT OF PERMANENT STABILIZATION OR LANDSCAPING.
8. REMOVE SILT ACCUMULATIONS AT SILT FENCES AND OTHER PROTECTION DEVICES BY CAREFUL HAND EXCAVATION. DISPOSE OF ACCUMULATED SILT BY REMOVING FROM SITE OR PLACING AND BURYING IT IN FILL AREAS.
9. DEWATERING OF EXCAVATIONS SHALL BE DIRECTED THROUGH GRAVEL BERMS.
10. DO NOT PUMP, OR DRAIN WATER CONTAINING SUSPENDED MATERIALS INTO PONDS OR RIVER.
11. COVER SOIL STOCKPILES WITH PLASTIC SHEETS OR APPROVED EQUAL WHEN SO DIRECTED.
12. PRIOR TO CARRYING OUT WORK, CHECK THE LONG RANGE WEATHER FORECAST TO ENSURE THAT THERE IS ADEQUATE TIME BEFORE FORECAST HEAVY RAIN STORMS TO STABILIZE THE WORK.
13. DO NOT PERMIT DISCOLOURED WATER TO ENTER PONDS OR RIVER. INSPECT SEDIMENT AND EROSION CONTROL MEASURES ON A REGULAR BASIS AND MAINTAIN AS NECESSARY.
14. HAVE PERSONNEL ON CALL TO PROVIDE EMERGENCY REPAIRS TO SEDIMENT AND EROSION CONTROL MEASURES AT ALL TIMES.

BIORETENTION (RAIN GARDEN) FACILITY SPECIFICATIONS

1. GENERAL

1.1. RELATED REQUIREMENTS
N.S.STD.SPEC. SECTION 31 10 00 "CLEARING AND GRUBBING",
N.S.STD.SPEC. SECTION 31 20 00 "EARTHWORK",
PLANTING, TOPSOIL, AND FINISH GRADING PER LANDSCAPE DRAWINGS.

2. REFERENCE STANDARDS

2.1. ASTM D698 - TEST METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT

3. EXISTING CONDITIONS

3.1. VERIFY SUBSURFACE SOIL CONDITIONS AT EACH FACILITY LOCATION, INCLUDING PERCOLATION / INFILTRATION / HYDRAULIC CONDUCTIVITY TESTING UNDER FIELD SATURATED CONDITIONS, AND DEPTH TO BEDROCK / SEASONAL HIGH WATER TABLE. INVESTIGATIONS SHALL BE CARRIED OUT BY A QUALIFIED GEOTECHNICAL ENGINEER, WITH APPROVAL OF OWNER'S REPRESENTATIVE. COST FOR INVESTIGATIONS SHALL BE BORNE BY THE CONTRACTOR. PROVIDE COPIES OF RESULTS AND REPORTS TO CONSULTANT IN ACCORDANCE WITH CONTRACT SUBMITTAL PROCEDURES.

3.2. KNOWN UNDERGROUND AND SURFACE UTILITY LINES AND BURIED OBJECTS ARE AS INDICATED ON SITE PLAN.

3.3. REFER TO DEWATERING IN N.S.STD.SPEC. SECTION 31 20 00 "EARTHWORK".

4. ACTION AND INFORMATION SUBMITTALS

4.1. SUBMIT IN ACCORDANCE WITH CONTRACT SUBMITTAL PROCEDURES.

5. DELIVERY, STORAGE, AND HANDLING

5.1. DELIVER, STORE AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

5.2. STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND EROSION AND SEDIMENTATION CONTROL PLAN.

5.3. REPLACE DEFECTIVE OR DAMAGED MATERIALS WITH NEW.

6. SOURCE QUALITY CONTROL

6.1. TOPSOIL SHALL BE OBTAINED FROM LOCAL SOURCE APPROVED BY OWNER'S REPRESENTATIVE. REUSE SITE TOPSOIL WHERE POSSIBLE, WITH DELETERIOUS MATERIALS REMOVED AFTER STRIPPING.

6.2. ADVISE OWNER'S REPRESENTATIVE OF SOURCES OF ANY OFF-SITE SOIL TO BE UTILIZED SEVEN DAYS IN ADVANCE OF STARTING WORK.

6.3. CONTRACTOR IS RESPONSIBLE FOR SOIL ANALYSIS AND REQUIREMENTS FOR AMENDMENTS TO SUPPLY MATERIALS AS SPECIFIED.

7. PRODUCTS

7.1. TOPSOIL FOR TURF AREAS
7.1.1. SEE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR TOPSOIL AND FINISH GRADING.

7.2. BIORETENTION SOIL FILTER MIX
7.2.1. BIORETENTION FILTER MEDIA LOCATION IS INDICATED ON DRAWINGS. CONTRACTOR TO LAYOUT FILTER MEDIA FACILITY ON SITE FOR OWNER'S REPRESENTATIVE APPROVAL.
7.2.2. COMPOSITION:
7.2.2.1. FILTER MEDIA TEXTURE BASED ON THE CANADIAN SYSTEM OF SOIL CLASSIFICATION, TO CONSIST OF THE FOLLOWING MIXTURE BY WEIGHT:

COMPONENT	PARTICLE SIZE	% BY WEIGHT
SAND	2.0 TO 0.05 MM DIA.	85-88%
FINES	< 0.05 MM DIA.	8-12%
ORGANIC MATTER	N/A	3-10%

7.2.2.2. BIORETENTION FILTER MEDIA SHALL BE PRE-MIXED BEFORE PLACEMENT IN BIORETENTION / BIOFILTRATION FACILITY TO ENSURE CONSISTENT AND HOMOGENEOUS DISTRIBUTION OF COMPONENT MATERIALS.
7.2.2.3. COMPOST / ORGANIC MATTER:
DERIVED FROM ORGANIC WASTE COMPOST.
ELASTIC AND HOMOGENEOUS, BROWN IN COLOUR.
FREE OF WOOD AND DELETERIOUS MATERIAL WHICH COULD PROHIBIT GROWTH.
SHREDDED PARTICLE MINIMUM SIZE: 5 MM.
PH VALUE: SUBMIT TEST RESULTS FOR REVIEW.
7.2.2.4. SAND: WASHED COARSE SILICA SAND, MEDIUM TO COURSE TEXTURED.
7.2.2.5. PHOSPHOROUS SOIL TEST (P-INDEX) VALUE BETWEEN 10 TO 30 PPM.
7.2.2.6. CATIONIC EXCHANGE CAPACITY (CEC) EXCEEDING 10 MILLEQUIVALENTS PER 100 GRAMS (MEQ/100G).
7.2.2.7. MIXTURE SHALL BE FREE OF STONES, STUMPS, ROOTS, OR OTHER OBJECTS LARGER THAN 50MM.
7.2.2.8. PH VALUE: 5.5 TO 7.5.
7.2.2.9. INFILTRATION RATE / PERMEABILITY GREATER THAN 50-100 MM/HR.

7.3. GRAVELS FOR SUBGRADE STORAGE / TRANSMISSION LAYER
7.3.1. GRAVEL SUBGRADE LAYERING AND COMPOSITION AS INDICATED ON DRAWINGS.

7.4. MULCH
7.4.1. MULCH LAYER 75MM IN THICKNESS SHALL BE PLACED ON THE SURFACE OF THE BIORSWALE FILTER BED.
7.4.2. MULCH SHALL BE COMPOSED OF SHREDDED HARDWOOD BARK.

7.5. UNDERDRAIN PIPE - WHERE SPECIFIED ON DRAWINGS
7.5.1. SHALL CONSISTENT OF "ADVANCED DRAINAGE SYSTEMS (ADS) N-12 DUAL WALL PERFORATED HDPE" OR APPROVED EQUIVALENT MEETING CSA B 182.8 STANDARD.
7.5.2. SHALL BE INSTALLED WITH SLOPE TOWARD DOWNSTREAM END AS INDICATED.
7.5.3. SHALL BE CAPPED ON UPSTREAM END.
7.5.4. UPSTREAM END SHALL BE CONNECTED TO A VERTICAL STANDPIPE WITH A REMOVABLE CAP, TO BE USED AS A CLEANOUT AND MONITORING WELL, AS INDICATED ON DRAWINGS.
7.5.5. SHALL BE CONNECTED TO DOWNSTREAM OUTLET AS INDICATED.
7.5.6. SHALL BE BEDDED AS SHOWN ON DRAWINGS.

8. EXECUTION

8.1. GENERAL
8.1.1. INSTALL BIORETENTION / BIOFILTRATION FACILITY AS CLOSE TO THE END OF CONSTRUCTION PERIOD AS PRACTICABLE.
8.1.2. BIORETENTION / BIOFILTRATION SITE SHALL BE PROTECTED BY SILT FENCE AND OTHER TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND REMAIN OUTSIDE THE LIMIT OF DISTURBANCE UNTIL CONSTRUCTION OF THE FACILITY BEGINS, TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT.
8.1.3. STORMWATER AND SEDIMENT SHOULD BE FULLY DIVERTED AWAY FROM THE BIORETENTION / BIOFILTRATION SITE UNTIL THE DRAINAGE AREA IS FULLY STABILIZED, TO PREVENT SEDIMENT FROM CLOGGING THE SURFACE OF THE SOIL FILTER.
8.1.4. BIORETENTION / BIOFILTRATION SITE SHOULD NOT BE USED AS THE SITE OF SEDIMENT BASIN DURING CONSTRUCTION, AS THE CONCENTRATION OF FINES WILL PREVENT POST-CONSTRUCTION INFILTRATION.
8.1.5. IN THE EVENT THAT SEDIMENT IS INTRODUCED TO THE BIORETENTION / BIOFILTRATION SITE DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED PRIOR TO CONTINUING CONSTRUCTION.
8.1.6. BIORETENTION / BIOFILTRATION SITE SHOULD NOT BE USED FOR STORING MATERIALS.
8.1.7. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE DRAINAGE AREA IS FULLY STABILIZED AND THE BIORETENTION / BIOFILTRATION FACILITY'S PLANTINGS ARE ESTABLISHED.
8.1.8. GRADING OF BIORETENTION / BIOFILTRATION FACILITY SHALL BE ACCOMPLISHED USING LOW-COMPACTION EARTH MOVING EQUIPMENT TO PREVENT COMPACTION OF UNDERLYING SOILS.

8.2. EXAMINATION
8.2.1. INFORM ENGINEER OF UNACCEPTABLE CONDITIONS IMMEDIATELY UPON DISCOVERY.
8.2.2. PROCEED WITH INSTALLATION ONLY AFTER UNACCEPTABLE CONDITIONS HAVE BEEN REMEDIED AND AFTER RECEIPT OF WRITTEN APPROVAL TO PROCEED FROM ENGINEER.

8.3. EXCAVATION AND PREPARATION OF SUB-GRADE
8.3.1. INSTALL ALL UNDERGROUND UTILITIES BEFORE CONSTRUCTING BIORETENTION / BIOFILTRATION FACILITY.
8.3.2. DO NOT PERFORM WORK UNDER ADVERSE FIELD CONDITIONS SUCH AS FROZEN SOIL, EXCESSIVELY WET SOIL OR SOIL COVERED WITH SNOW, ICE OR STANDING WATER.
8.3.3. EXCAVATE BIORETENTION / BIOFILTRATION CELL TO APPROPRIATE DESIGN DEPTH, USING EXCAVATOR OR BACKHOE WORKING ADJACENT TO BIORETENTION / BIOFILTRATION AREA.
8.3.4. GRADE SUB-GRADE TO ELIMINATE UNEVEN AREAS AND LOW SPOTS, ALLOWING FOR PLACEMENT DEPTHS OF GRAVELS AND BIORETENTION / BIOFILTRATION FILTER MEDIA.
8.3.5. VERIFY THAT SUB-GRADE ELEVATIONS ARE CORRECT AT BOTTOM OF BIORETENTION / BIOFILTRATION FACILITY TO WITHIN 25 MM AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO PLACING NEW MATERIALS IN FACILITY FOOTPRINT.
8.3.6. SUB-GRADE TO BE CLEAN OF WEEDS, WEED SEEDS, DEBRIS EXCEEDING 50 MM DIAMETER, AND CONTAMINATION BY PETROLEUM AND OTHER DELETERIOUS MATERIALS.
8.3.7. COARSE CULTIVATE SUB-GRADE TO A DEPTH OF 300 MM BEFORE PLACEMENT OF NEW MATERIALS UNLESS OTHER SUB-GRADE PREPARATION IS INDICATED ON DRAWINGS. DO NOT CULTIVATE SUB-GRADE FOR COMMON GREEN COURTYARD RAIN GARDENS HAVING NO GRAVEL STORAGE LAYER BENEATH UNDERDRAIN PIPE.

8.4. BIORETENTION / BIOFILTRATION FILTER MEDIA AND GRAVELS PLACING AND SPREADING
8.4.1. PLACE BIORETENTION / BIOFILTRATION FILTER MEDIA AND GRAVELS AFTER SUB-GRADE HAS BEEN APPROVED BY OWNER'S REPRESENTATIVE.
8.4.2. SPREAD GRAVELS IN UNIFORM LAYERS NOT EXCEEDING 150 mm LIFTS, OVER UNFROZEN SUB-GRADE FREE OF STANDING WATER.
8.4.3. SPREAD BIORETENTION / BIOFILTRATION FILTER MEDIA IN 300 mm LIFTS UNTIL DESIRED TOP ELEVATION OF BIOSWALE AREA IS ACHIEVED. THOROUGHLY WET EACH LIFT AND WAIT UNTIL WATER HAS DRAINED THROUGH THE MEDIA BEFORE ADDING THE NEXT LIFT. CHECK FOR SETTLEMENT AFTER SEVERAL DAYS AND ADD ADDITIONAL MEDIA AS NEEDED.
8.4.4. INSTALLED BIOSWALE FILTER MEDIA SHALL BE ONLY LIGHTLY COMPACTED, TO 80-82% STANDARD PROCTOR DENSITY (ASTM D698).

8.5. FINISH GRADING
8.5.1. GRADE TO ELIMINATE ROUGH SPOTS AND LOW AREAS AND ENSURE FINE GRADE TO FINAL ELEVATIONS WITHIN 20MM. VEGETATED LANDSCAPE: SURFACE IMMEDIATELY ADJACENT TO BIOSWALE FILTER MEDIA SHALL DRAIN INTO FACILITY WITH MINIMUM 2% SLOPE.
8.5.2. CONSOLIDATE TO SMOOTH, UNIFORM AND FIRM SURFACE.

8.6. PLANTING - AS INDICATED ON LANDSCAPE DRAWINGS
8.6.1. PREPARE PLANTING HOLES FOR ANY TREES AND SHRUBS, INSTALL VEGETATION, AND WATER ACCORDINGLY.
8.6.2. INSTALL ANY TEMPORARY IRRIGATION.
8.6.3. PLANT LANDSCAPING MATERIALS AS SHOWN IN DRAWINGS.
8.6.4. WATER LANDSCAPING MATERIALS WEEKLY IN THE FIRST TWO MONTHS.
8.6.5. LAY DOWN MULCH AND OTHER SURFACE COVERS IN ACCORDANCE WITH DRAWINGS.
8.6.6. STORMWATER RUNOFF SHALL BE DIRECTED AWAY FROM THE BIORETENTION / BIOFILTRATION PLANTINGS FOR 1 YEAR OR, WITHIN THE FIRST YEAR, UNTIL VEGETATION IS ESTABLISHED, AS APPROVED BY OWNER'S REPRESENTATIVE.

8.7. CONSTRUCTION OVERSIGHT
8.7.1. AT A MINIMUM, CONSTRUCTION INSPECTIONS BY THE OWNER'S REPRESENTATIVE WILL OCCUR:
8.7.1.1. FOR ALL BIORETENTION / BIOFILTRATION FILTER MEDIA AND AGGREGATE MATERIALS USED, WILL BE APPROVED AFTER TESTING FROM A CERTIFIED LABORATORY SHOW PASSING SPECIFIED REQUIREMENTS.
8.7.1.2. AFTER PRELIMINARY CONSTRUCTION OF THE FACILITY GRADES WITH SUBGRADE PREPARED.
8.7.1.3. ONCE THE UNDERDRAIN PIPE SYSTEM IS INSTALLED BUT NOT BACKFILLED.
8.7.1.4. AFTER THE GRAVEL SUNGRADE LAYER IS CONSTRUCTED PRIOR TO THE INSTALLATION OF FILTER MEDIA.
8.7.1.5. AFTER THE FILTER MEDIA HAS BEEN INSTALLED, PLANTED, AND MULCHED.
8.7.1.6. AFTER ONE YEAR TO INSPECT HEALTH OF VEGETATION AND MAKE CORRECTIONS.

8.8. ACCEPTANCE
8.8.1. THE BIORETENTION / BIOFILTRATION FILTER MEDIA, GRAVELS, AND MULCH ARE ACCEPTABLE WHEN:
8.8.1.1. FILTER MEDIA AND GRAVELS TESTING AND ANALYSIS MEETS THE SPECIFICATIONS.
8.8.1.2. FILTER MEDIA, GRAVEL, AND MULCH MATERIAL, DEPTHS AND FINISH GRADING ARE INSPECTED IN PLACE AND APPROVED BY OWNER'S REPRESENTATIVE.
8.8.1.3. TESTING OF FILTER MEDIA TO BE CARRIED OUT BY TESTING LABORATORY APPROVED BY OWNER'S REPRESENTATIVE PAID FOR BY CONTRACTOR. SAMPLING, TESTING AND ANALYSIS ARE TO BE IN ACCORDANCE WITH PROVINCIAL REGULATIONS AND STANDARDS.

8.9. CLEANING
8.9.1. PROGRESS CLEANING: CLEAN IN ACCORDANCE WITH CONTRACT GENERAL REQUIREMENTS: CLEANING.
8.9.2. LEAVE WORK AREA CLEAN AT END OF EACH DAY.
8.9.3. FINAL CLEANING: UPON COMPLETION REMOVE SURPLUS MATERIALS, RUBBISH, TOOLS AND EQUIPMENT IN ACCORDANCE WITH CONTRACT GENERAL REQUIREMENTS: CLEANING.
8.9.4. WASTE MANAGEMENT: SEPARATE WASTE MATERIALS FOR RECYCLING IN ACCORDANCE WITH CONTRACT GENERAL REQUIREMENTS: WASTE MANAGEMENT AND DISPOSAL.
8.9.5. REMOVE RECYCLING CONTAINERS AND BINS FROM SITE AND DISPOSE OF MATERIALS AT APPROPRIATE FACILITY

8.10. SITE TOLERANCES
8.10.1. FINISH SURFACES TO WITHIN 10 MM OF ELEVATION AS INDICATED BUT NOT UNIFORMLY HIGH OR LOW.

8.11. PROTECTION
8.11.1. PROTECT EXISTING FENCING, TREES, LANDSCAPING, NATURAL FEATURES, BENCH MARKS, BUILDINGS, PAVEMENT, AND SURFACE OR UNDERGROUND UTILITY LINES WHICH ARE TO REMAIN AS DIRECTED BY OWNER'S REPRESENTATIVE. IF DAMAGED, RESTORE TO ORIGINAL OR BETTER CONDITION UNLESS DIRECTED OTHERWISE.
8.11.2. PROTECT BIORETENTION / BIOFILTRATIONE FACILITY FROM COMPACTION, STORMWATER, AND SEDIMENT BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL FACILITY VEGETATION IS ESTABLISHED, PER CLAUSES ABOVE.

REVISIONS

1. ISSUED FOR SITE PLAN APPROVAL 220810

NOTES

STORM SEWER ENGINEERING BY T.S. CHALMERS, P.ENG.
ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

LEGEND

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CHORD	.CH
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PLAN

SHOWING PROPOSED

NOTES AND SPECIFICATIONS

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

CLIENT/OWNER:

KENT FIELDS ESTATES LIMITED

REGISTERED PROFESSIONAL ENGINEER — DATE AUG. 10, 2022 — E.J. Morse — 5877 — PROVINCE OF NOVA SCOTIA

REGISTERED PROFESSIONAL ENGINEER — DATE AUG. 10, 2022 — T. S. Chalmers — 10597 — PROVINCE OF NOVA SCOTIA

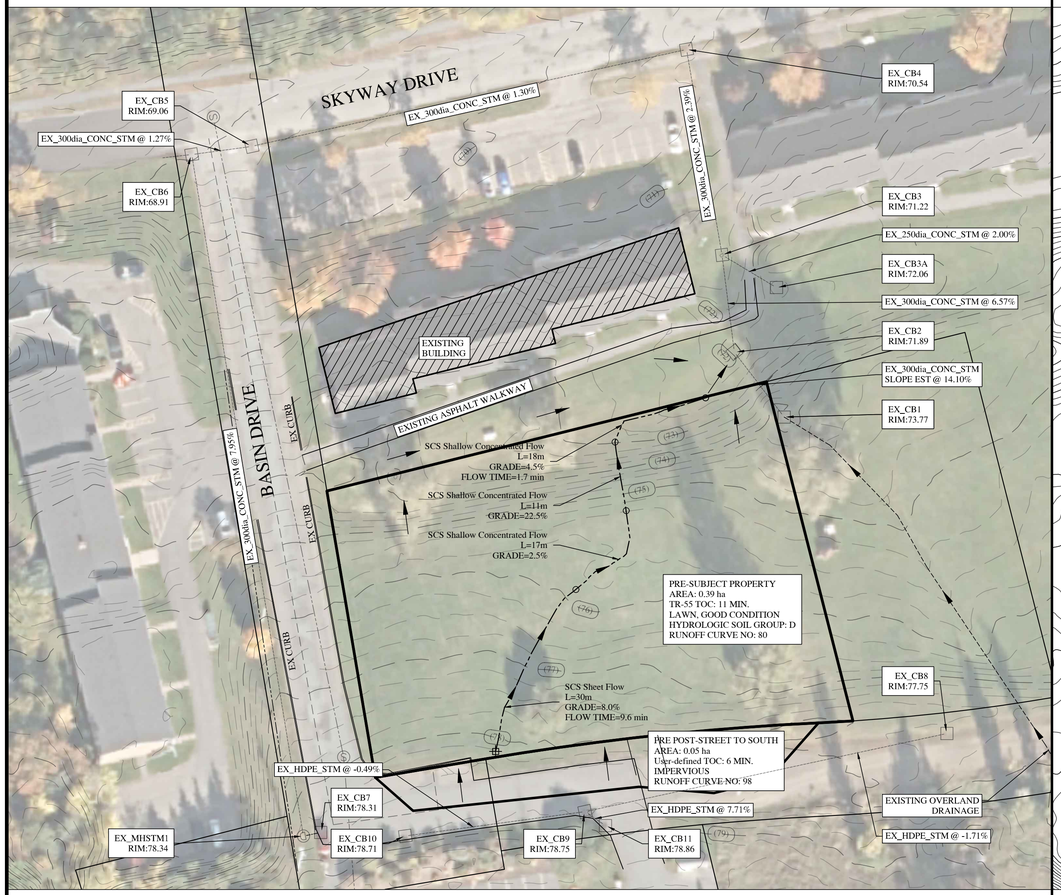
DeWOLFE & MORSE SURVEYING LIMITED
P.O. BOX 520 MIDDLETON
ANNAPOLIS COUNTY, N.S.
BOS - 1P0
Email: info@demosl.ca

DRAFTED ON AUGUST 10, 2022

PLAN NO: 2022-148 SHEET 8 OF 9

A STORMWATER PRE DEVELOPMENT PLAN

1:500



PRE DEVELOPMENT STORMWATER CONDITIONS

LARGE ARROWS ON STORMWATER PLAN INDICATE SURFACE DRAINAGE / OVERLAND FLOW PATTERNS.

PRE DEVELOPMENT WATERSHED SHOWN IS THAT WITH TRIBUTARY SYSTEM OUTFALL TO CATCHBASIN CB2 (SHOWN ABOVE), HAVING THE FOLLOWING CATCHMENTS (SHOWN ABOVE):

- PRE-SUBJECT PROPERTY
- PRE POST-STREET TO SOUTH

DESIGN AND ANALYSIS METHODS

- SCS-TR55 UNIT HYDROGRAPH METHODOLOGY.
- COMBINED HYDRAULIC AND HYDROLOGIC ANALYSIS USING AUTODESK STORM AND SANITARY ANALYSIS SOFTWARE.

DESIGN STORM

- SCS STORM TYPE III 24 hr CUMULATIVE RAINFALL DISTRIBUTION.
- USE ENV. CAN. KENTVILLE CDA CS DESIGN RAINFALL DATASET:

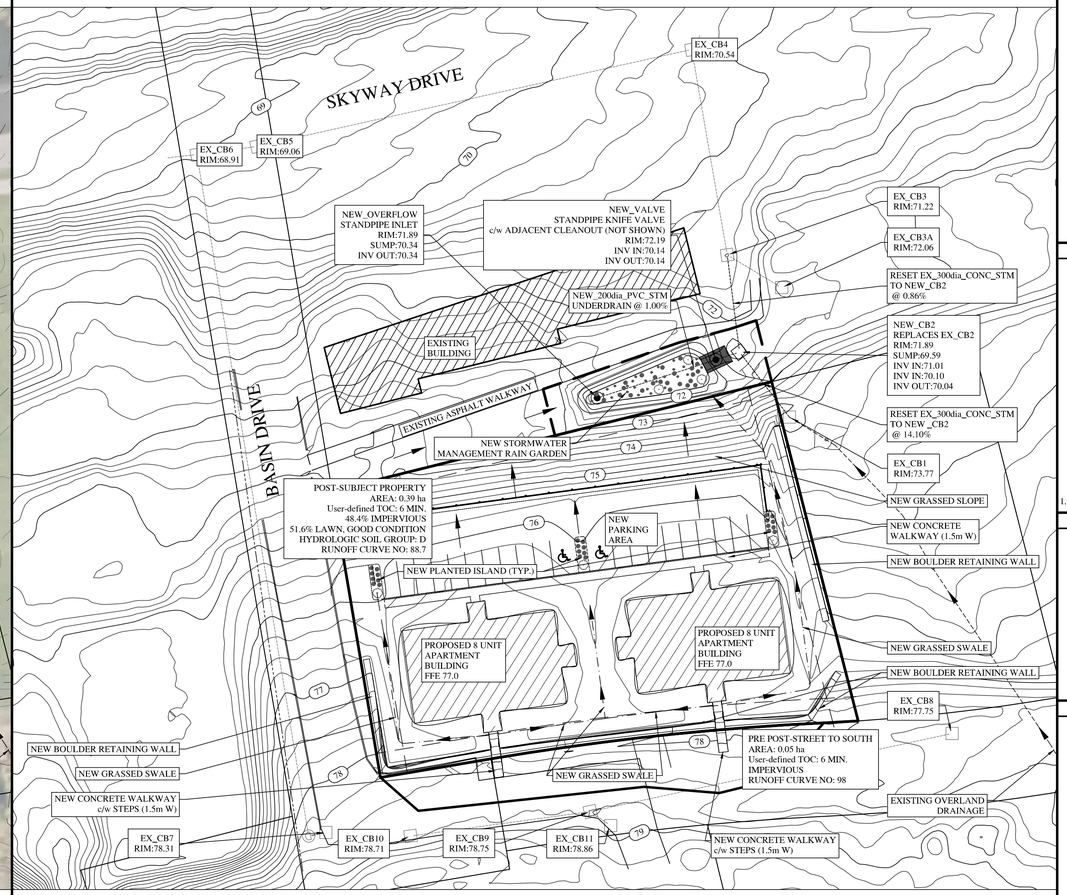
RETURN PERIOD	24 hr RAINFALL AMOUNT
5 yr	75.0 mm
10 yr	86.1 mm
100 yr	120.8 mm

NET STORMWATER SYSTEM OUTFLOW TO WATERSHED OUTFALL IN DESIGN STORM EVENTS

RETURN PERIOD	NET RUNOFF	NOTES
5 yr	37.4 l/s	
10 yr	47.1 l/s	
100 yr	79.0 l/s	

B STORMWATER POST DEVELOPMENT PLAN

1:500



POST DEVELOPMENT STORMWATER CONDITIONS

LARGE ARROWS ON STORMWATER PLAN INDICATE SURFACE DRAINAGE / OVERLAND FLOW PATTERNS.

POST DEVELOPMENT WATERSHED SHOWN IS THAT WITH TRIBUTARY SYSTEM OUTFALL TO CATCHBASIN CB2 (SHOWN ABOVE), HAVING THE FOLLOWING CATCHMENTS (SHOWN ABOVE):

- POST-SUBJECT PROPERTY
- PRE POST-STREET TO SOUTH

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5 yr	75.0 mm
10 yr	86.1 mm
100 yr	120.8 mm

STORMWATER MANAGEMENT RAIN GARDEN (BIORETENTION) FACILITY

- FOR FACILITY DESIGN INFORMATION SEE: PLAN AND DETAIL DRAWINGS, NOTES AND SPECIFICATIONS.
- COLLECTS AND RETAINS ALL RUNOFF FROM SUBJECT WATERSHED BEFORE IT ENTERS EXISTING LOCAL STORMWATER COLLECTION SYSTEM.
- FILTERS FIRST FLUSH RUNOFF CONTAMINANTS FROM HIGH FREQUENCY RAIN EVENTS THROUGH BIORETENTION SOIL FILTER.
- STORES AND RETAINS RUNOFF IN SUBGRADE GRAVEL AND SOIL FILTER LAYERS, AND SURFACE PONDING AREA ABOVE PLANTED SURFACE.
- AVAILABLE SUBGRADE STORAGE ASSUMES SUBGRADE MEDIA POROSITY CORRECTION FACTOR 0.35.
- AVAILABLE SURFACE PONDING:
  - UP TO 150mm DEEP BEFORE OVERFLOW INTO OVERFLOW STANDPIPE AND THENCE FACILITY UNDERDRAIN.
  - UP TO 300mm DEEP BEFORE EMERGENCY OVERFLOW OVER WEIR INTO CB2.
  - UP TO 450mm DEEP BEFORE OVERBANK FLOODING.
- PERFORATED UNDERDRAIN DIRECTS RETAINED RUNOFF FROM SUBGRADE AND SURFACE PONDING OVERFLOW THROUGH A RESTRICTING KNIFE VALVE AND THEN INTO CB2. KNIFE VALVE SET TO DESIGNATED OPENING ALLOWS NET RUNOFF NO GREATER THAN PRE DEVELOPMENT RUNOFF FROM TRIBUTARY WATERSHED.

NET STORMWATER SYSTEM OUTFLOW TO WATERSHED OUTFALL IN DESIGN STORM EVENTS

RETURN PERIOD	NET RUNOFF	NOTES
5 yr	35.1 l/s	
10 yr	38.5 l/s	
100 yr	47.8 l/s	RAIN GARDEN RETAINS RUNOFF WITHIN SUBGRADE LAYERS - SURFACE PONDING STORAGE REMAINS AVAILABLE.

REVISIONS

1. ISSUED FOR SITE PLAN APPROVAL	220810

NOTES

STORM SEWER ENGINEERING BY T.S. CHALMERS, P.ENG.
ALL OTHER ENGINEERING BY E.J. MORSE, P.ENG.

10 0 10 20 30 N

SCALE 1:500 (METRES)

LEGEND

BEGINNING OF VERTICAL CURVE	.BVC
POINT OF VERTICAL INTERSECTION	.PVI
FINISHED GRADE	.20.00
CALCULATED	.C
POINT OF CURVATURE	.PC
POINT OF COMPOUND CURVATURE	.PCC
CHORD	.CH
MANIFOLE (SANITARY)	.MHSAN
MANHOLE (STORM)	.MHSTM
CATCH BASIN	.CB
FIRE HYDRANT	.HYD
WATER VALVE	.WV
CALCULATED POINT	.CP
UTILITY POLE	.UP
RIGHT OF WAY	.ROW
NOT TO SCALE	

EXISTING ELEVATIONS (m) IN BRACKETS, EXISTING CONTOURS DASHED LINES
PROPOSED ELEVATIONS (m) NO BRACKETS, PROPOSED CONTOURS SOLID LINES

PLAN

SHOWING PROPOSED

STORMWATER MANAGEMENT

PID 55486252

PROPOSED MULTI UNIT DEVELOPMENT

BASIN DRIVE

WOLFVILLE

KINGS COUNTY, N.S.

HORIZONTAL SCALE 1:500

VERTICAL SCALE N/A

CLIENT/OWNER:

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DRAFTED ON AUGUST 10, 2022

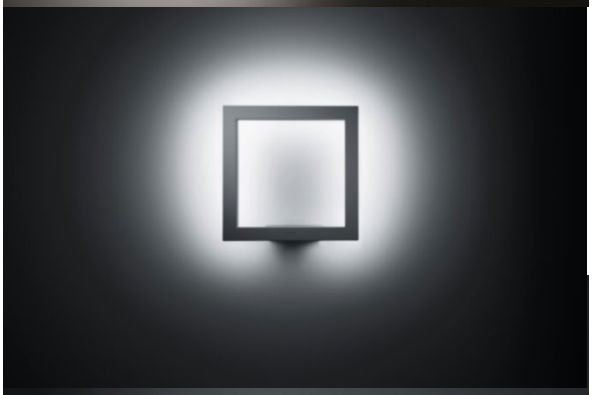
PLAN NO: 2022-148 SHEET 9 OF 9

Office Location: Unit 2, 687 Central Ave.
Greenwood, NS.
Contact: 902-242-2725
http://www.palmerdoherty.com/

Job Number: 2200102

Kentfield Estates 8 unit – Lighting

ENTRY DOOR LIGHTING



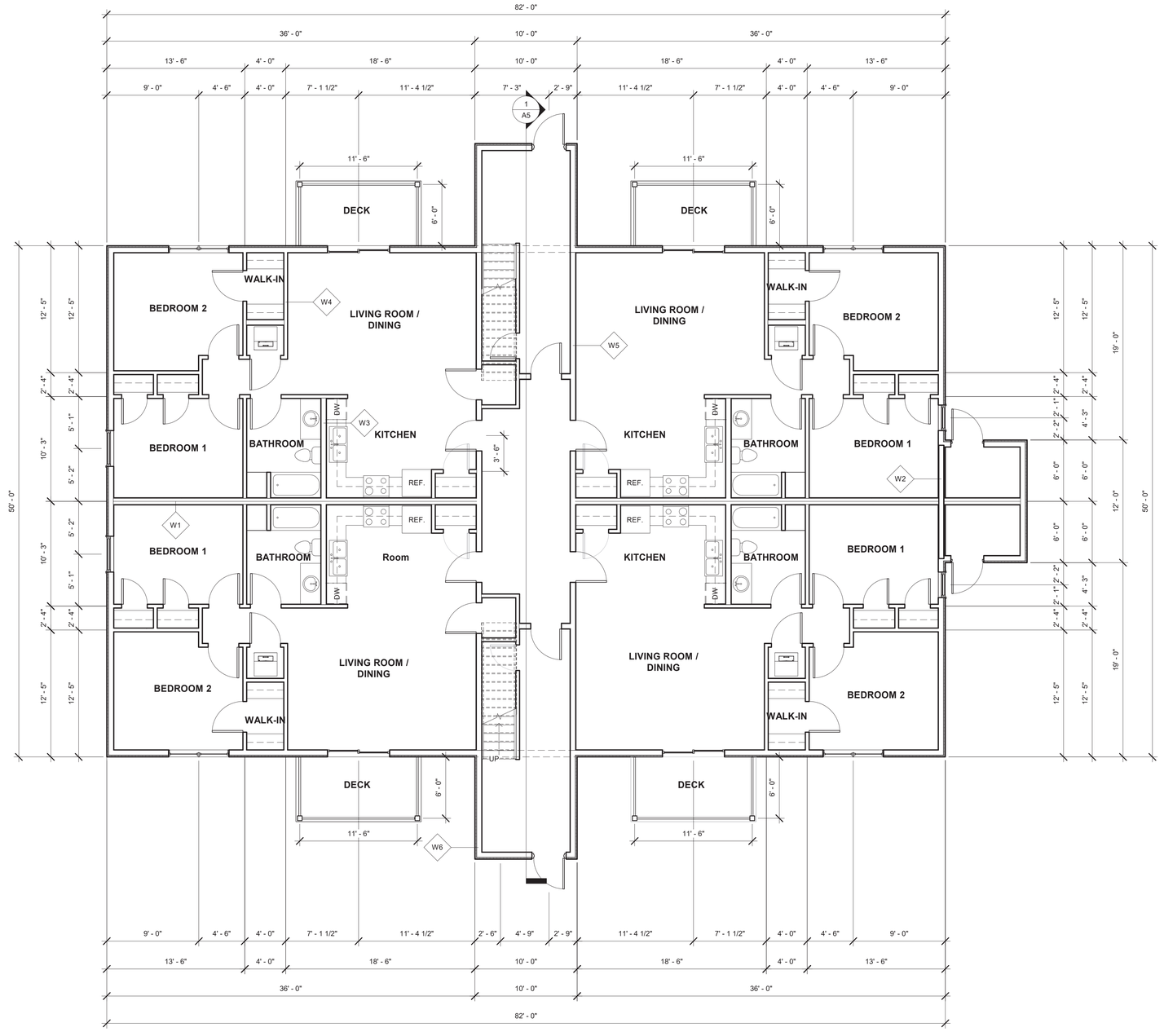
DECK/ PATIO LIGHTING

RECESSED- WALKWAY LIGHTING

3D MODEL & EXTERIOR RENDER

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 NBCC
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING
3. ALL MATERIALS TO BE INSTALLED ACCORDING TO MANUFACTURES SPECIFICATIONS.
4. ALL EXTERIOR AND LOAD BEARING WALLS ARE TO BE 2"X6" SPF NO.1 WHILE ALL OTHER INTERIOR WALLS ARE SPF NO.1 2"X4".
5. ALL PLUMBING WALLS ARE TO BE SPF. NO.1 2"X6"
6. ALL EXPOSED MATERIALS TO BE PROTECTED FROM ELEMENTS DURING CONSTRUCTION
7. TEMPORARY STRUCTURAL BRACING DURING CONSTRUCTION RESPONSIBILITY OF CONTRACTOR
8. INTERM CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGNED AREA LOADS FOR THE STRUCTURE.
9. PENETRATIONS AND OPENINGS SHALL BE SEALED
10. SOIL, SNOW, WIND, SEISMIC, AND LIVE LOADS TO BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION
11. CONTRACTOR TO BE RESPONSIBLE FOR ALL SITE ENGINEERING
12. ALL DOOR JAMBS TO BE 6" UNLESS NOTED OTHERWISE.



1 FIRST FLOOR PLAN
3/16" = 1'-0"

W1- PARTY WALL

5/8" TYPE X GWB
RESILIENT CHANNELS @ 16" O.C.
2X4 STUDS (STAGGERED)
1/2" SOUND BOARD
2X4 STUDS STAGGERED
(2) 5/8" TYPE X GWB

W2- PARTY WALL TO MECH/ELEC.

1/2" TYPE X GWB
2X6 STUDS @ 16" O.C.
ROCK WOOL INSULATION
1/2" TYPE X GWB

W3- INTERIOR PARTITION (PLUMBING)

1/2" GWB
2X6 STUDS @ 16" O.C.
SINGLE TOP & BOTTOM PLATE
1/2" GWB

W4- INTERIOR PARTITION

1/2" GWB
2X4 STUDS @ 16" O.C.
SINGLE TOP & BOTTOM PLATE
1/2" GWB

W5- 2X6 CORRIDOR WALL

5/8" TYPE X GWB
RESILIENT CHANNELS @ 16" O.C
2X6 STUDS @ 16" O.C
SINGLE TOP PLATE AND BOTTOM PLATE
R12 ROCK WOOL INSULATION
RESILIENT CHANNELS @ 16" O.C
5/8" TYPE X GWB

W6-EXTERIOR WALL

6" EXP. VINYL SIDING
AIR BARRIER
1" R4 TYPE II RIGID INSULATION
1/2" OSB
2"X6" STUDS @ 16" O.C.
R20 BATT INSULATION
6 MIL POLY VAPOR BARRIER
1/2" TYPE X GWB TAPED AND SANDED

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — NOVA SCOTIA ASSOCIATION OF ARCHITECTS — J. A. HARVEY

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DATE — T.L. PALMER — 7178

PROJECT:				DWG:
KENTFIELDS ESTATES - 8 UNIT				A1
TITLE: FIRST FLOOR PLAN				ISSUE: A
SCALE: AS NOTED	DATE: 02-08-2022	DRAWN: B.M.S	CHECKED: T.P.	JOB NO: 220102

GENERAL NOTES

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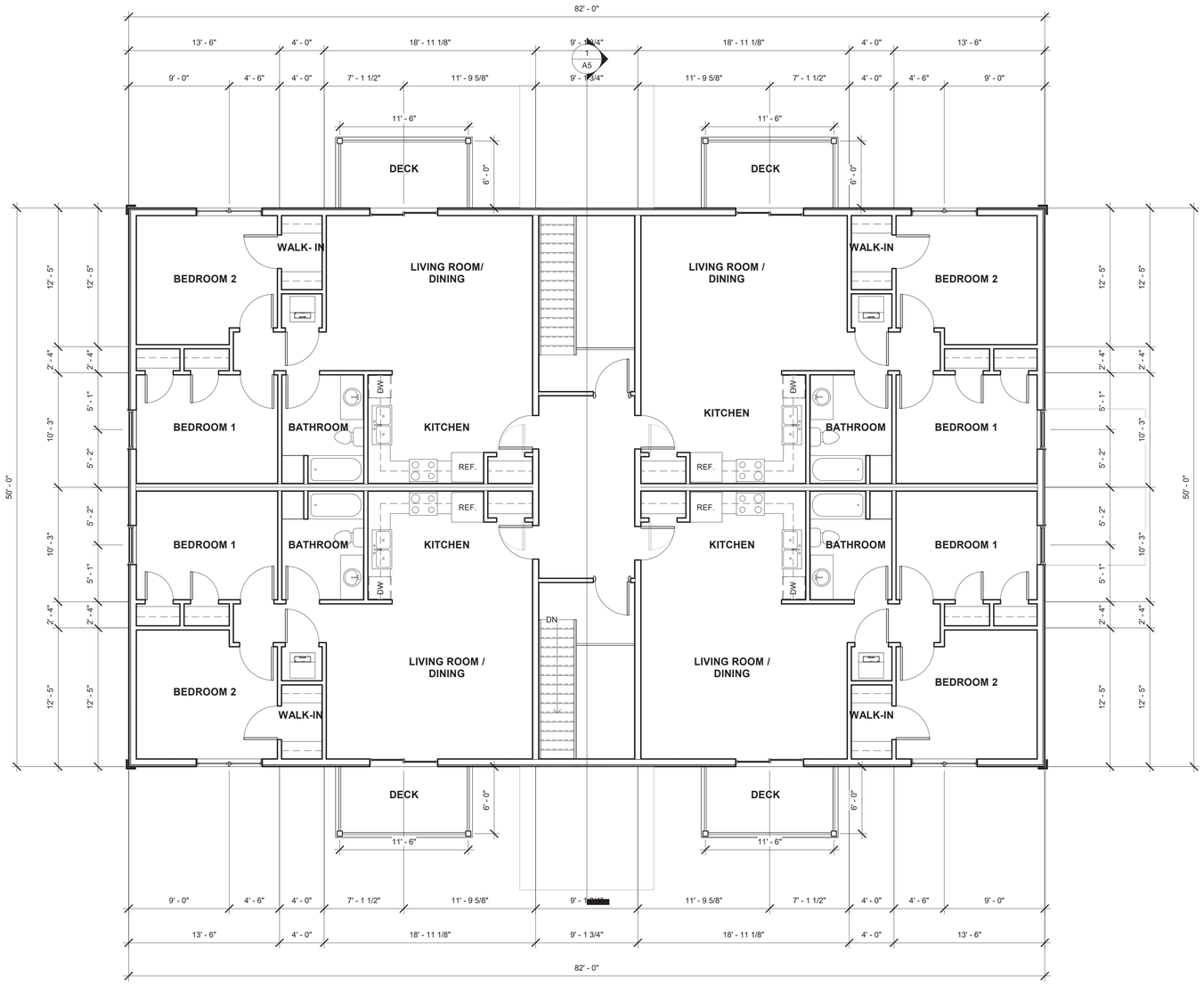

1 SECOND FLOOR PLAN
3/16" = 1'-0"

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — ROGER A. HARVEY — NOVA SCOTIA ASSOCIATION OF ARCHITECTS

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — DATE — T.L. PALMER 7178 — PROVINCE OF NOVA SCOTIA

PROJECT: KENTFIELDS ESTATES - 8 UNIT				DWG: A2
TITLE: SECOND FLOOR PLAN				ISSUE: A
SCALE: AS NOTED	DATE: 02-08-2022	DRAWN: B.M.S	CHECKED: T.P.	JOB NO: 220102

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1 FRONT ELEVATION
1/4" = 1'-0"

2 RIGHT SIDE ELEVATION
1/4" = 1'-0"

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — NOVA SCOTIA ASSOCIATION OF ARCHITECTS — K. HARVEY

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DATE — T.L. PALMER — 7178

PROJECT: KENTFIELDS ESTATES - 8 UNIT				DWG: A3
TITLE: ELEVATIONS				ISSUE: A
SCALE: AS NOTED	DATE: 02-08-2022	DRAWN: B.M.S	CHECKED: T.P.	JOB NO. 220102

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1 BACK ELEVATION
1/4" = 1'-0"

2 LEFT SIDE ELEVATION
1/4" = 1'-0"

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — NOVA SCOTIA ASSOCIATION OF ARCHITECTS — T. A. HARVEY

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DATE — T.L. PALMER — 7178

PROJECT:				DWG.
KENTFIELDS ESTATES - 8 UNIT				A4
TITLE: ELEVATIONS				ISSUE: A
SCALE: AS NOTED	DATE: 02-08-2022	DRAWN: B.M.S	CHECKED: T.P.	JOB NO. 220102

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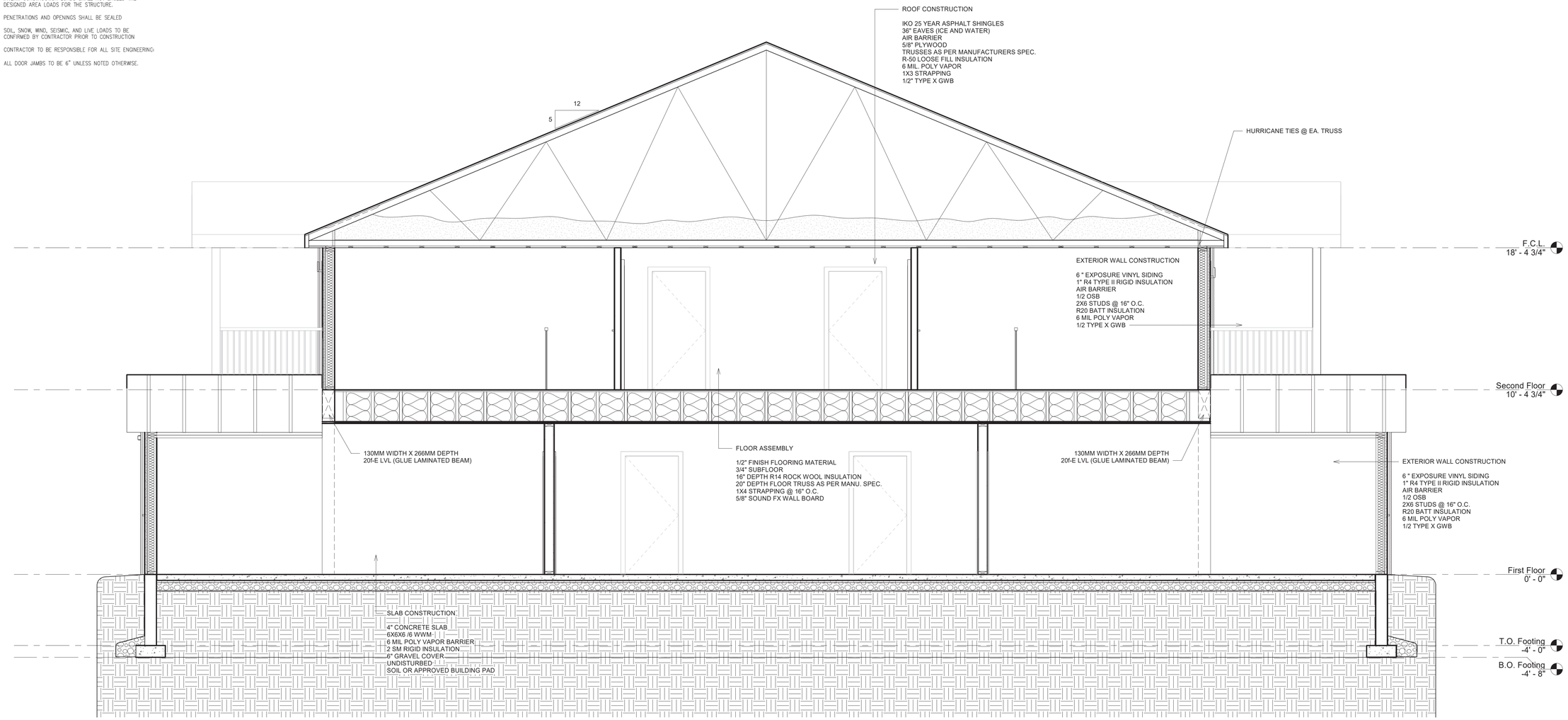

1 CROSS SECTION
3/8" = 1'-0"

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — NOVA SCOTIA ASSOCIATION OF ARCHITECTS — R. A. HARVEY

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DATE — Y.L PALMER — 7178

PROJECT: KENTFIELDS ESTATES - 8 UNIT

DWG: A5

TITLE: CROSS SECTION

ISSUE: A

SCALE:	DATE:	DRAWN:	CHECKED:	JOB NO.
AS NOTED	02-08-2022	B.M.S	T.P.	220102

GENERAL NOTES

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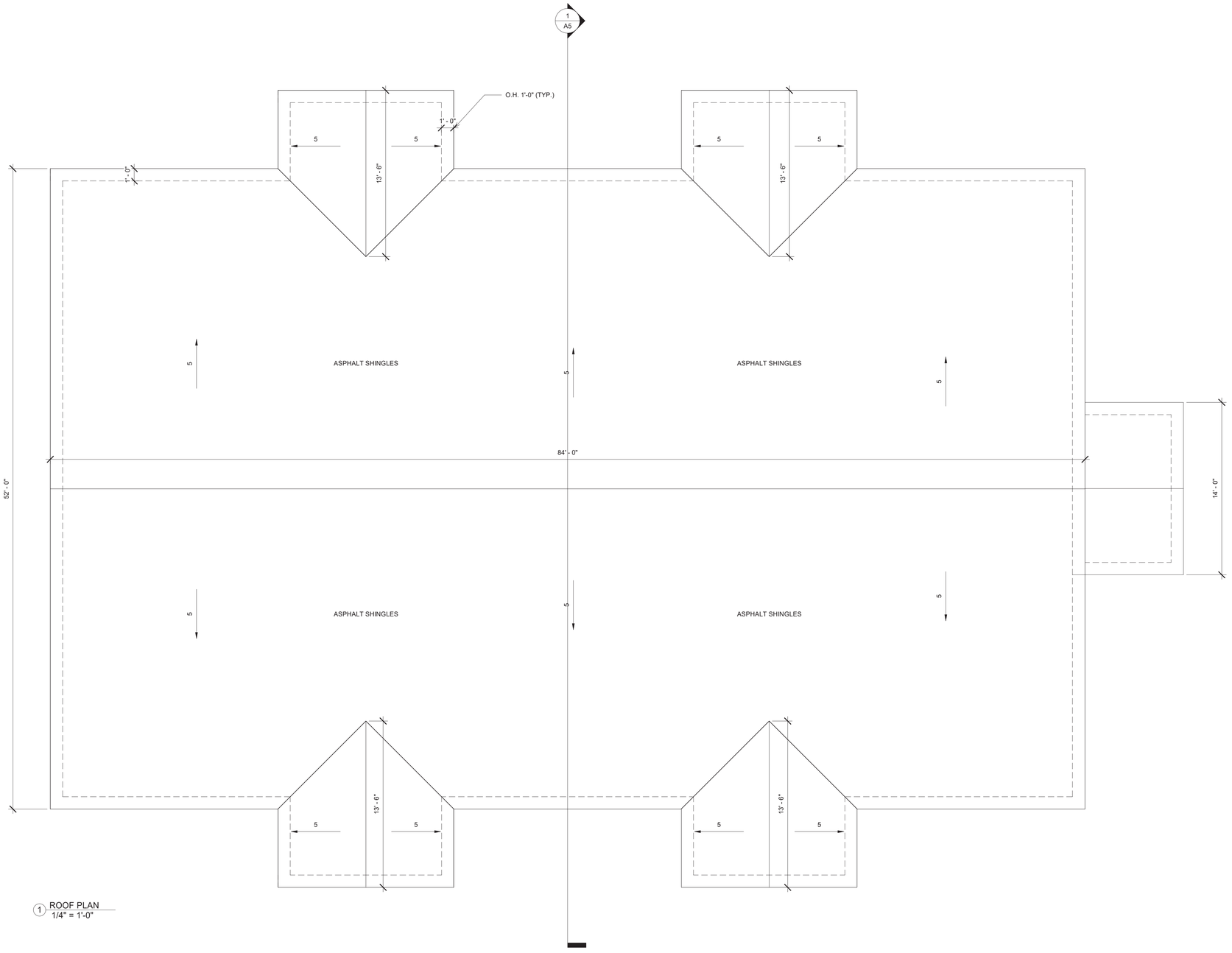


1 ROOF PLAN
1/4" = 1'-0"

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — NOVA SCOTIA ASSOCIATION OF ARCHITECTS — ROBERT A. HARVEY

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DATE — T.L. PALMER — 7178

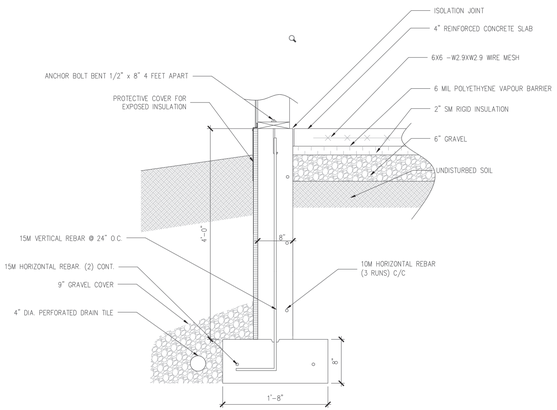
PROJECT: KENTFIELDS ESTATES - 8 UNIT			DWG: A9
TITLE: ROOF PLAN			ISSUE: A
SCALE: AS NOTED	DATE: 02-08-2022	DRAWN: B.M.S	CHECKED: T.P.
			JOB NO: 220102

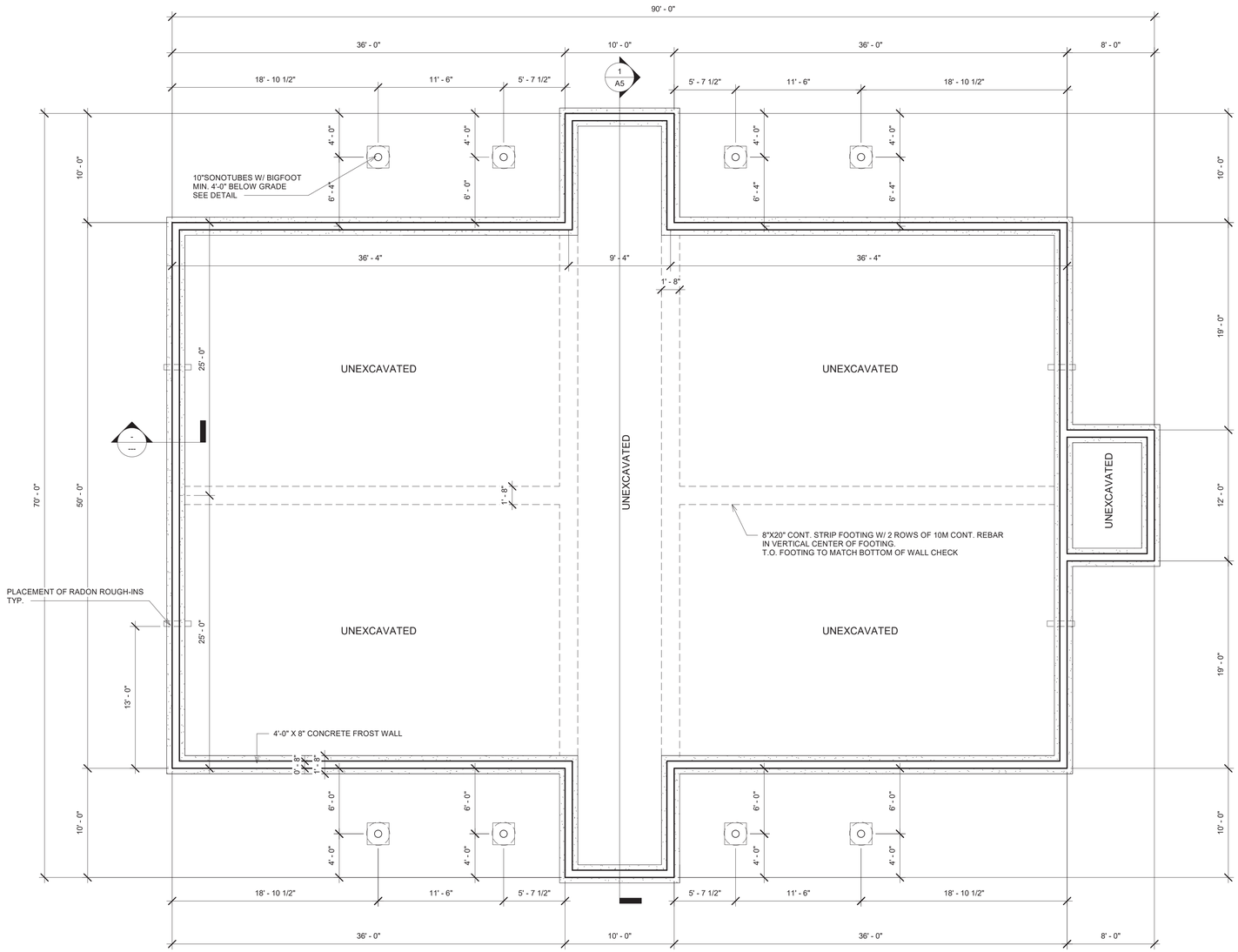
GENERAL NOTES :

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE NATIONAL BUILDING CODE AS ADOPTED BY THE PROVINCE OF NOVA SCOTIA & ALL AUTHORITIES HAVING JURISDICTION.
2. EXAMINE ALL DRAWINGS & CHECK ALL DIMENSIONS AGAINST SITE CONDITIONS AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
3. FOUNDATION DESIGN BASED ON A MINIMUM SOIL BEARING CAPACITY OF 3,000 P.S.F.
4. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURAL FILL HAVING A MINIMUM BEARING CAPACITY OF 3,000 psf.
5. SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO 100% STANDARD PROCTOR (ASTM D698) MAXIMUM DRY DENSITY AND SHALL BE PLACED ON STRUCTURAL FILL SUB BASE HAVING A MIN. BEARING CAPACITY OF 3,000 P.S.F.
6. DESIGN, INSTALL AND MAINTAIN ADEQUATE TEMPORARY BRACING AND SHORING OF ALL STRUCTURAL ELEMENTS FOR STABILITY AND SAFETY WHERE REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH REGULATIONS AND AUTHORITIES HAVING JURISDICTION.

REINFORCED CONCRETE NOTES :

1. ALL CONCRETE, CONCRETE MATERIAL, FORMS, PRACTICE, ETC. SHALL CONFORM TO CAN/CSA-A23.1-M94 UNLESS NOTED OTHERWISE.
2. MINIMUM COMPRESSIVE STRENGTH OF CONC. AT 28 DAYS SHALL BE:
   - 4,000 psi FOR INTERIOR FLOOR SLABS
3. MATERIALS FOR FLOOR SLAB AS FOLLOWS:
   - 4,000psi CONCRETE PLACED AT A SLUMP OF 4" TO 5".
4. CONCRETE PROTECTIVE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
   (a) CAST AGAINST FILL - NO FORM WORK . . 3"
   (b) EXPOSED TO EARTH OR WEATHER:
   25M AND GREATER . . . . . 2"
   20M AND SMALLER . . . . . 1\"
   (c) WALLS - PROTECTED . . . . . 3"
5. PROVIDE CONTINUOUS SUPERVISION DURING THE PLACEMENT OF CONCRETE TO ENSURE THAT THE REINFORCING STEEL IS MAINTAINED IN ITS CORRECT POSITION.
6. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPa AND CONFORM TO CSA G30.18-M92.
7. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" BY THE REINFORCING STEEL INSTITUTE OF CANADA FIRST EDITION 1992.
8. ALL REINFORCING STEEL TO BE LAPPED A MIN. OF 30 BAR DIAMETERS UNLESS NOTED INCLUDING CORNERS.
9. FLOOR SLAB TO HAVE A SMOOTH STEEL TROWEL FINISH.
10. ALL CONCRETE TO BE PROTECTED FROM FREEZING OR ANY OTHER DETREMENTAL EFFECTS WHICH MAY BE CAUSED BY WEATHER CONDITIONS.
11. SAWCUT CONCRETE SLAB 1/4 OF THE SLAB THICKNESS WHERE INDICATED ON THE DRAWING WITH EARLY ENTRY SAW. FILL SAWCUT JOINTS WITH JOINT FILLER.





1 FOUNDATION PLAN
3/16" = 1'-0"

NOTES:

FOR PERMIT

FOR CONSTRUCTION DRAWING SET AND QUESTIONS
PLEASE CONTACT 902-242-2725

NO.	DESCRIPTION:	DATE:
1	FOR DEVELOPMENT PERMIT	2022.08.04

REVISIONS

LOGO: LICENSED ARCHITECT — ROBERT A. HARVEY — NOVA SCOTIA ASSOCIATION OF ARCHITECTS

PALMER & DOHERTY CONSULTING INC.

STAMP: REGISTERED PROFESSIONAL ENGINEER — DATE — T.L. PALMER — 7178 — PROVINCE OF NOVA SCOTIA

PROJECT:				DWG:
KENTFIELDS ESTATES - 8 UNIT				S1
TITLE:				ISSUE:
FOUNDATION PLAN				A
SCALE:	DATE:	DRAWN:	CHECKED:	JOB NO:
AS NOTED	02-08-2022	B.M.S	T.P.	220102