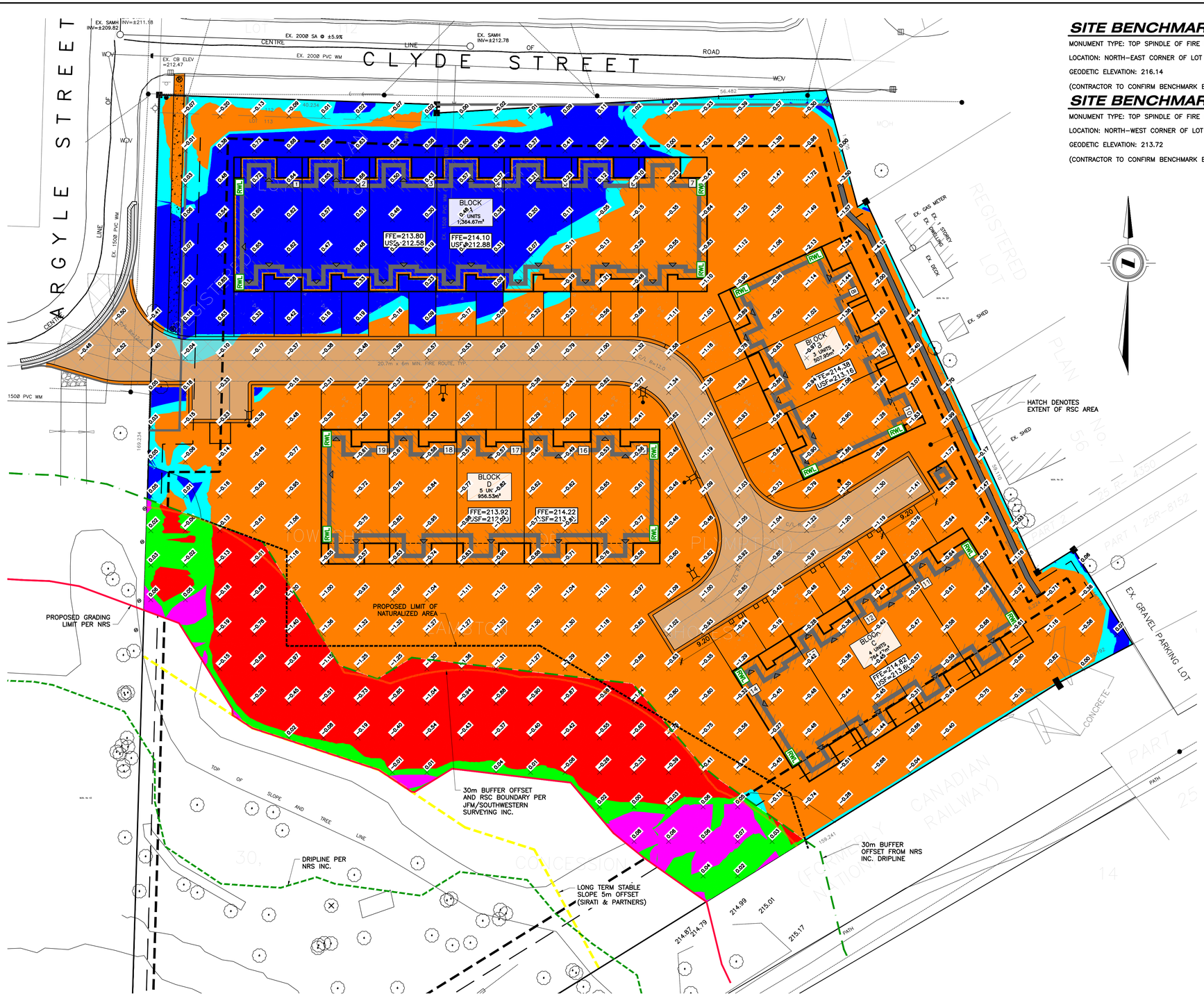


SITE BENCHMARK#1:

MONUMENT TYPE: TOP SPINDLE OF FIRE HYDRANT

LOCATION: NORTH–EAST CORNER OF LOT

GEODETIC ELEVATION: 216.14

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

SITE BENCHMARK#2:

MONUMENT TYPE: TOP SPINDLE OF FIRE HYDRANT

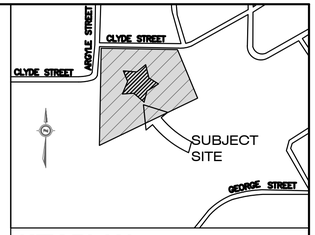
LOCATION: NORTH–WEST CORNER OF LOT

GEODETIC ELEVATION: 213.72

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

LEGAL INFORMATION

PART OF
LOT 30
CONCESSION 14
IN THE
MUNICIPALITY OF
LAMBTON SHORES
(TOWN OF FOREST)
COUNTY OF LAMBTON



KEY PLAN

N.T.S.

ASSUMPTIONS:

- ALL SOIL SUITABILITY SUBJECT TO GEOTECHNICAL ENGINEER APPROVAL.
- NO BULKING FACTORS APPLIED.
- CALCULATIONS DONE USING TIN METHOD.
- EXISTING SURFACE BASED ON EXISTING CONDITIONS TOPOGRAPHIC SURVEY COORDINATION CAD FILE BY SOUTH WESTERN SURVEYING LTD., PROJECT NUMBER 21–030TOPO.
- EXISTING TOPSOIL DEPTH ASSUMED AT 0.15m BASED ON AVERAGE TOPSOIL BOREHOLE DEPTH OF PROVIDED GEOTECHNICAL INVESTIGATION BY ASF ASSOCIATES INC., PROJECT NUMBER G21–07–002.
- APPROXIMATE EXISTING RSC TOPSOIL AREA TO BE STRIPPED 10170.40m². THEREFORE, APPROXIMATE EXISTING TOPSOIL VOLUME EQUAL TO 1525.56m³ BASED ON STRIP DEPTH OF 0.15m.
- APPROXIMATE EXISTING NON RSC TOPSOIL AREA TO BE STRIPPED 1652.39m². THEREFORE, APPROXIMATE EXISTING TOPSOIL VOLUME EQUAL TO 247.86m³ BASED ON STRIP DEPTH OF 0.15m.
- EXISTING STRIPPED SURFACE BASED ON THE EXISTING SURFACE NOTED ABOVE WITH THE ABOVE ASSUMPTIONS APPLIED.
- PROPOSED LANDSCAPED AREAS TOPSOIL DEPTH AT 0.10m PER SURFACE WORKS NOTES ON SHEET C1 OF CIVIL ENGINEERING DRAWING SET.
- PROPOSED SURFACE BASED ON CIVIL ENGINEERING DRAWING SET SHEET C4, PROJECT NUMBER SBM–21–1014, REVISION DATED FEBRUARY 06, 2024.
- PROPOSED HEAVY–DUTY ASPHALT PAVEMENT STRUCTURE ASSUMED AT 0.55m PER SURFACE WORKS NOTES ON SHEET C1 OF CIVIL ENGINEERING DRAWING SET.
- PROPOSED CURB AND GUTTER ASSUMED OVER GRANULAR AT SAME DEPTH AS ADJACENT ASPHALT PAVEMENT STRUCTURE DEPTH WITH 0.30m CURB PROJECTION.
- PROPOSED SIDEWALK STRUCTURE ASSUMED AT 0.20m PER SURFACE WORKS NOTES ON SHEET C1 OF CIVIL ENGINEERING DRAWING SET.
- PROPOSED DRIVEWAYS ASSUMED AT 0.30m PER SURFACE WORKS NOTES ON SHEET C1 OF CIVIL ENGINEERING DRAWING SET.
- PROPOSED ACCESSORY BUILDING ASSUMED TO BE SLAB ON GRADE, SIMILAR TO MAIN BUILDING FLOORS.
- PROPOSED BUILDING FLOOR SLAB ASSUMED AT 0.30m PER ARCHITECTURAL DRAWING A2, REVISION DATED SEPTEMBER 09, 2020 BY BRANDON HOME DESIGNS. UNDERSIDE OF GRANULAR FOR FLOOR SLAB ASSUMED AT THICKNESS OF 100mm ON APPROXIMATELY 200mm OF GRANULAR BASE.
- PROPOSED FOUNDATION WALLS ASSUMED AT 0.229m WIDE 1.5m HEIGHT.
- PROPOSED RETAINING WALL ASSUMED AT 0.744m WIDE 1.5m DEEP.
- PROPOSED SUBDRAIN PER DETAIL ON SHEET C5 OF CIVIL ENGINEERING DRAWING SET ASSUMED AT 156m IN LENGTH, 0.45m HIGH AND 0.30m WIDE.
- SEWER SPOILS ASSUMED AT 1m³ PER LINEAR METER OF MAIN PIPE LESS THAN 675DIA, 1.6m³ PER LINEAR METER FOR MAIN PIPE 675–825DIA, AND 2.5m³ PER LINEAR METER FOR MAIN PIPE GREATER THAN 825DIA (PDC'S AND WSC'S NOT CONSIDERED). STORM AND SANITARY STRUCTURES AND WATERMAIN APPURTENANCES ALSO CONSIDERED IN THE NET CUT/FILL CALCULATIONS. SERVICING SPOILS CALCULATED OUTSIDE OF CIVIL 3D AND ADDED TO THE NET CUT VALUE.
- PROPOSED SUBGRADE SURFACE IS BASED ON PROPOSED SURFACE NOTED ABOVE WITH THE ABOVE ASSUMPTIONS APPLIED.
- ATTACHED VOLUMES ARE AN ANALYSIS OF THE COMPARISON OF THE EXISTING STRIPPED SURFACE

RSC TOPSOIL VOLUMES		
EXISTING VOLUME (m³)	PROPOSED USE VOLUME (m³)	NET TOPSOIL REMOVAL (m³)
1525.56	455.33	1070.23
NON RSC TOPSOIL VOLUMES		
EXISTING VOLUME (m³)	PROPOSED USE VOLUME (m³)	NET TOPSOIL REMOVAL (m³)
247.86	16.52	231.34

RSC EARTHWORKS VOLUMES (PRE–ADJUSTMENT VALUES)		
CUT (m³)	FILL (m³)	NET CUT (m³)
6455.35	661.64	5793.70
NON RSC EARTHWORKS VOLUMES (PRE–ADJUSTMENT VALUES)		
CUT (m³)	FILL (m³)	NET CUT (m³)
725.11	17.50	707.61

ADJUSTMENT VALUES:
- SUBDRAIN = 21.06m³
- SEWER SPOILS = 648.18m³

RSC EARTHWORKS VOLUMES (POST–ADJUSTMENT VALUES)		
CUT (m³)	FILL (m³)	NET CUT (m³)
7124.59	661.64	6462.95
NON RSC EARTHWORKS VOLUMES (POST–ADJUSTMENT VALUES)		
CUT (m³)	FILL (m³)	NET CUT (m³)
725.11	17.50	707.61

REFER TO SBM–21–1014 GOLD LEAF PROPERTIES –113 CLYDE ST – CUT FILL ASSUMPTIONS 2024.01.31 FOR TOPSOIL VALUES AND CUT/FILL ASSUMPTIONS.

LEGEND:

RSC AREA
- CUT
- CUT/FILL: –0.05 to 0.05
- FILL

NON–RSC AREA
- CUT
- CUT/FILL: –0.05 to 0.05
- FILL

–0.09 DIFFERENCE FROM EXISTING GRADE TO PROPOSED SUBGRADE

AS CONSTRUCTED SERVICES	COMPLETION

DESIGN	BG/RF
DRAWN	BG/IAC
CHECKED	RF
APPROVED	RF
DATE	07/02/2024
CAD	21–1014

No.	REVISIONS	D/M/Y	BY
1	ISSUED FOR SITE PLAN APPROVAL 4	08/02/24	IAC
2	ISSUED FOR SITE PLAN APPROVAL 4 R1	14/02/24	IAC

CONSULTANT

STRIK BALDINELLI MONIZ
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Tel: (519) 471-6667 Fax: (519) 471-0034
Email: sbm@sbmltd.ca

LICENSED PROFESSIONAL ENGINEER R. S. FROUWS 100203453 2024.02.14 PROVINCE OF ONTARIO

ENGINEER'S STAMP

CLIENT
GOLDLEAF PROPERTIES
9644 TOWNSEND LINE
KERWOOD, ON
N0M 2B0
P: 519.870.3214
E: CINDYR@MCFLTD.CA

SCALE
SCALE – 1:300
3.0 0 6.0m

TITLE
CUT/FILL PLAN
HICKORY CREEK ESTATES
113 CLYDE STREET,
FOREST, ON.

PROJECT No. SBM–21–1014
SHEET No. CF
PLAN FILE No. –

S:\2021 Jobs\SBM-21-1014 Gold Leaf Properties - 113 Clyde St, Townhomes, Forest\03 Dwgs\01 Civil\03 Production Drawings\SBM-21-1014 Goldleaf Properties - 113 Clyde Street Cut Fill.dwg