1. <u>GENERAL</u>

- 1.1 USE BAR SCALE TO CONFIRM ACTUAL PLOT SCALE. 1.2 EXISTING AND NEW ELEVATIONS AND INVERTS SHOWN ARE GEODETIC 1.3 EXISTING ELEVATIONS AND LOCATIONS, INVERTS AND SIZES OF EXISTING SERVICES ARE NOT NECESSARILY SHOWN ON PLAN AND THOSE SHOWN ARE
- DERIVED FROM AVAILABLE INFORMATION AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING CONSTRUCTION. REPORT ANY DIFFERENCES TO 1.4 SITE BOUNDARIES AND EXISTING GRADES AND OTHER FEATURES DERIVED FROM TOPOGRAPHIC SURVEY PREPARED BY FAIRHALL MOFFATT & WOODLAND LIMITED JOB NO. L60500.
- LOCATIONS OF BUILDINGS, PAVED AREAS SIDEWALKS ETC. 1.6 REINSTATE ADJACENT PROPERTIES TO PRE-CONSTRUCTION CONDITIONS. 1.7 REINSTATE CITY PROPERTIES TO CITY STANDARDS AND TO CITY OF OTTAWA'S SATISFACTION. 1.8 ALL CITY PROPERTY, DAMAGED AS A RESULT OF THIS WORK, SHALL BE REINSTATED TO THE CITY'S SATISFACTION. 1.9 ALL RELEVANT WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT

1.5 REFER TO ARCHITECTURAL / LANDSCAPE SITE PLANS FOR EXACT

CITY STANDARDS AND SPECIFICATIONS. 1.10 ONTARIO PROVINCIAL STANDARDS & SPECIFICATIONS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE. 1.11 ALL PROPOSED RETAINING WALLS SHALL BE SETBACK A MINIMUM 0.15m FROM PROPERTY LINE. ALL PROPOSED RETAINING WALLS GREATER THAN 1.0m IN HEIGHT SHALL BE DESIGN BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.

2. <u>EROSION AND SEDIMENT CONTROL</u>

2.1 THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATE OF CATCH BASINS AND MANHOLES COVERS AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. 2.2 PRIOR TO COMMENCEMENT OF CONSTRUCTION AT ALL MUNICIPAL CATCH BASINS ADJACENT TO THE SITE AND AT ANY MANHOLES OR CATCH BASINS THAT WILL RECEIVE DISCHARGE FROM DE-WATERING OPERATIONS AND ALL NEW CATCH BASINS AS THEY ARE INSTALLED: INSTALL SEDIMENT CAPTURE FILTER SOCK INSERTS (TERRAFIX GEOSYNTHETICS INC SILTSACK OR APPROVED EQUAL). INSPECT AT THE END OF EACH DAY AND AFTER EACH RAINFALL. REMOVÉ SEDIMENT AS RECOMMENDED BY THE MANUFACTURER. IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED FILTER SOCK INSERTS. DO NOT REMOVE UNTIL CONSTRUCTION IS COMPLETE. 2.3 CONSTRUCTION IS CONSIDERED COMPLETE WHEN THE FOLLOWING CONDITIONS HAVE BEEN MET:

a. ALL STRUCTURES HAVE BEEN BUILT. b. ALL HARD SURFACES HAVE BEEN CONSTRUCTED. c. ALL PROPOSED GRASSED AREAS ARE EITHER SODDED OR HAVE A FULL COVERAGE OF WELL ESTABLISHED TURF AND HAVE HAD A MININMUM OF ONE FULL GROWING SEASON (MAY 15TH TO SEPTEMBER 15TH). d. THERE ARE NO AREAS OF EXPOSED EARTH.

e. ALL STOCKPILED MATERIALS HAVE BEEN REMOVED. 2.4 REMOVE EROSION AND SEDIMENT CONTROL MEASURES WHEN CONSTRUCTION IS COMPLETE.

3. **GRADING & DRAINAGE**

3.1 NEW GRADES TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS DRAINAGE WILL BE DIRECTED TOWARDS THE NEIGHBOUR'S PROPERTY DURING AND AFTER CONSTRUCTION. THERE WILL BE NO ALTERATION TO EXISTING GRADE AND DRAINAGE PATTERNS ON PROPERTY LINE. 3.2 ALL AREAS SHALL BE GRADED TO ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO CATCH BASINS, SWALES, DITCHES AND OTHER APPROVED DISPOSAL AREAS. GRADES TO BE GRADUAL BETWEEN FINISHED SPOT ELEVATIONS SHOWN ON DRAWINGS TO PREVENT PONDING

4. <u>SITE SERVICES</u>

BUILDING

4.1 WATER METER SHALL BE INSTALLED AS PER CITY OF OTTAWA DWG. No. W30. ALL WATER SERVICE MATERIALS AND CONSTRUCTION METHODS TO CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. 4.2 PROVIDE A MINIMUM 2.4 m COVER OVER NEW WATER SERVICE CONNECTION. WHERE THE MINIMUM COVER IS NOT POSSIBLE INSULATE AS PER CITY OF OTTAWA DWG. No. W22. PROVIDE A MINIMUM 300mm VERTICAL SEPARATION BETWEEN SEWERS AND WATER SERVICE CONNECTIONS AND BETWEEN WATERMAIN AND SEWER SERVICE CONNECTIONS. 4.3 CONNECTION TO WATERMAIN BY CITY OF OTTAWA, CONTRACTOR SHALL PROVIDE EXCAVATION, BACKFILL AND REINSTATEMENT. 4.4 WATER SEVICE CONNECTION SHALL BE COPPER ASTM B88 TYPE "K" SOFT. WATER SERVICE CONNECTIONS SHALL BE CONSTRUCTED OF A SINGLE RUN OF PIPE WITH NO JOINTS OR FITTINGS BETWEEN THE STREET LINE OR

4.5 CONNECT PROPOSED SANITARY AND STORM SEWER SERVICE CONNECTIONS TO EXISTING MUNICIPAL SEWERS USING A PRE-FABRICATED SADDLE CONNECTION. 4.6 SEWER MATERIAL SHALL BE PVC SDR-28 AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. 4.7 BEDDING AND SURROUND MATERIAL FOR SEWERS SHALL BE OPSS GRANULAR A. BEDDING AND SURROUND MATERIAL FOR WATERMAIN AND WATER SERVICE CONNECTIONS SHALL BE OPSS GRANULAR A OR OPSS GRANULAR M. RE-CYLCLED GRANULAR MATERIALS ARE NOT PERMITTED. 4.8 THE SANITARY BUILDING DRAIN SHALL BE INSTALLED WITH A FULL-PORT

4.9 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO.

BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA

4.10 TRENCH DRAIN AND AREA DRAIN SUMP & PUMP: SUBMERSIBLE EFFLUENT PUMP WITH AN IMPELLER CAPABLE OF HANDLING 3/4 INCH (19mm) SOLIDS COMPLETE WITH ON/OFF FLOAT CONTROLS; 30 USgpm @ 23 FEET HEAD (115 L/MIN @ 7.0m); F. E. MYERS ME3F 1/3 HP OR EQUAL. SUMP SHALL BE A MINIMUM 600mm IN DIAMETER AND A MINIMUM 600mm DEEP. ANCHOR SUMP TO PREVENT UPLIFT FROM HYDROSTATIC PRESSURES. PROVIDE A HIGH WATER ALARM. DISCHARGE PIPE SHALL BE SELF-DRAINING. DISCHARGE OUTSIDE ONTO A CONCRETE

SPLASH PAD 4.11 FOUNDATION DRAIN SUMP & PUMP: SUBMERSIBLE SUMP PUMP WITH AN IMPELLER CAPABLE OF HANDLING 1/2 INCH (12mm) SOLIDS COMPLETE WITH ON/OFF & ALARM FLOAT CONTROLS; 20 USgpm @ 18 FEET HEAD (77 L/MIN @ 5.5m); F. E. MYERS MDC33 1/3 HP OR EQUAL. SUMP SHALL BE A MINIMUM 600mm IN DIAMETER AND A MINIMUM 600mm DEEP. ANCHOR SUMP TO PREVENT UPLIFT FROM HYDROSTATIC PRESSURES. PROVIDE A HIGH WATER ALARM. DISCHARGE PIPE SHALL BE SELF-DRAINING. DISCHARGE OUTSIDE ONTO A CONCRETE SPLASH PAD.

5. <u>CONSTRUCTION:</u>

5.1 PRIOR TO COMMENCING WORK:

a. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES.

b. SIZE, DEPTH AND LOCATION OF EXISTING UTILITIES AND STRUCTURES AS INDICATED ARE FOR GUIDANCE ONLY. EXISTING UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON PLANS. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. NOTIFY ALL APPLICABLE OWNERS UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION OF PROPOSED WORK AND LOCATE AND CLEARLY IDENTIFY ALL EXISTING SERVICES, UTILITIES AND STRUCTURES ON AND ADJACENT TO SITE. CONFIRM LOCATIONS OF BURIED SERVICES AND UTILITIES BY CAREFUL TEST EXCAVATIONS AND

REPORT ANY DIFFERENCES TO THE ENGINEER. c. COORDINATE AND SCHEDULE WORK WITH THE AUTHORITIES AND OTHER TRADES. 5.2 MAINTAIN AND PROTECT FROM DAMAGE, SERVICES, UTILITIES AND

STRUCTURES ENCOUNTERED. 5.3 PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWNS, FENCING, SERVICE POLES, WIRES, PAVEMENT, SURVEY BENCH MARKS AND MONUMENTS AND OTHER SURFACE FEATURES FROM DAMAGE WHILE WORK IS IN PROGRESS. DO NOT DISTURB SOIL WITHIN BRANCH SPREAD OF TREES OR SHRUBS THAT ARE TO REMAIN.

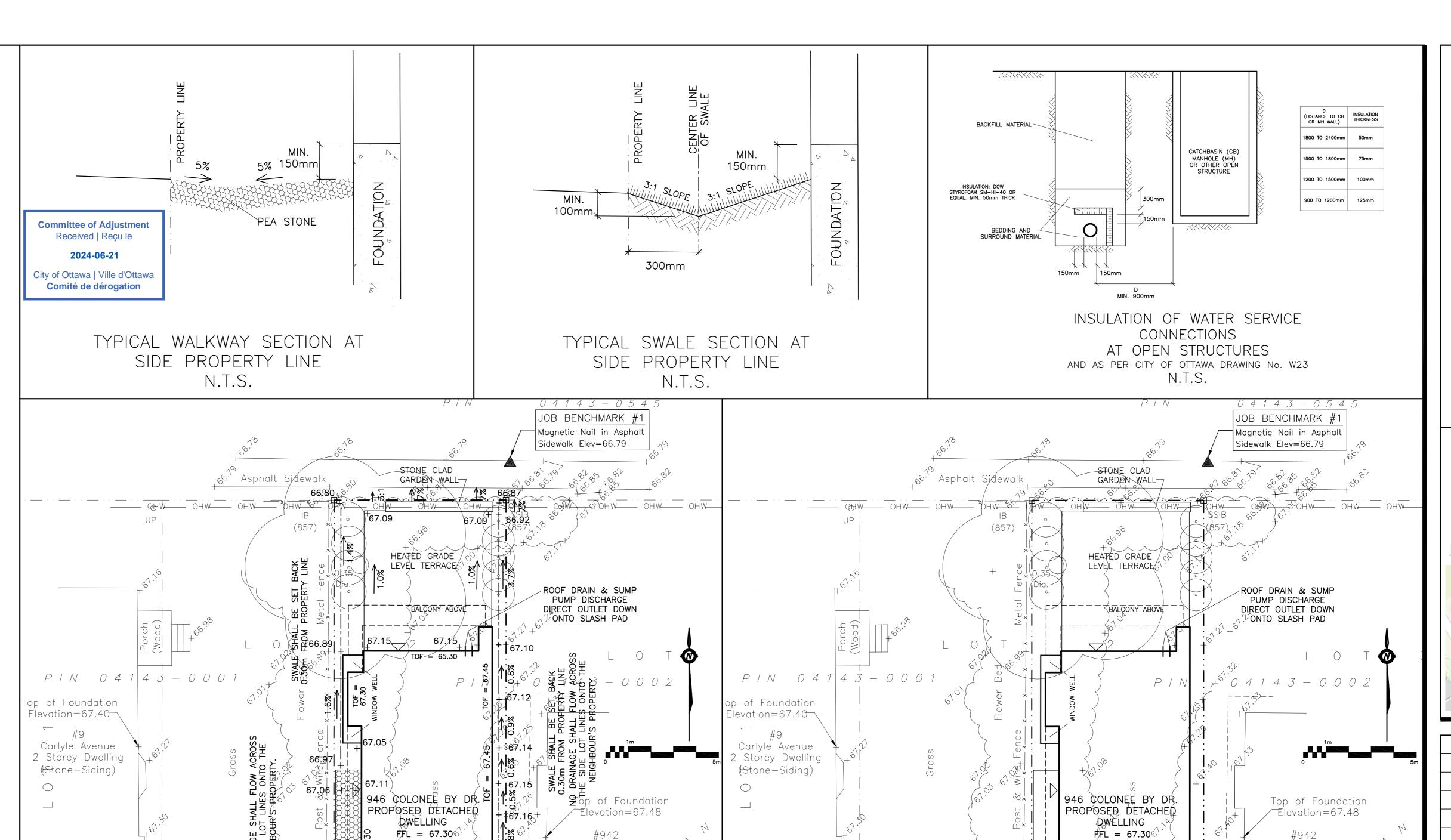
5.4 PROVIDE TRAFFIC CONTROL AND SAFETY MEASURES INCLUDING ANY NECESSARY PERSONEL AND THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE AND BARRIERS 5.5 SHORE AND BRACE EXCAVATIONS, PROTECT SLOPES AND BANKS AND

PERFORM ALL WORK IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT AND OTHER AUTHORITIES HAVING JURISDICTION. 5.6 CUT PAVEMENT AND / OR SIDEWALK NEATLY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK EVENLY AND

5.7 MAINTAIN RECORD DRAWINGS AND RECORD ACCURATELY DEVIATIONS FROM THE ORIGINAL CONTRACT DOCUMENTS CAUSED BY SITE CONDITIONS AND CHANGES MADE BY CHANGE ORDER OR ADDITIONAL INSTRUCTION. RECORD DRAWINGS SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO CHANGES OF DIMENSION AND DETAIL; AND HORIZONTAL AND VERTICAL LOCATIONS OF UNDERGROUND UTILITIES AND APPURTENANCES REFERENCED

TO A PERMANENT SURFACE STRUCTURE. 5.8 REINSTATE PAVEMENTS AND SIDEWALKS DISTURBED BY EXCAVATION TO THICKNESS, STRUCTURE AND ELEVATION WHICH EXISTED BEFORE EXCAVATION. 5.9 CLEAN AND REINSTATE AREAS AFFECTED BY THE WORK

GRADING PLAN



Wooden

Interlocking

Brick Driveway

EXIST MH

TOP 66.93

INV <u>+</u>64.20

SITE SERVICING PLAN

JOB BENCHMARK #2

Cut Cross in Concrete

Sidewalk Elev=67.13

Concrete A Sidewalk

Fence—x-

₩ooden

0.5% EXISTING SLOPE OF GRADE 0.5%_ SLOPE OF GRADE _____ SWALE/DITCH (CENTERLINE) ---- PROPERTY LINE FFL FIRST FLOOR ELEVATION TOF TOP OF FOUNDATION ELEVATION BASEMENT FLOOR ELEVATION USF UNDERSIDE OF FOOTING ELEVATION KEY PLAN

DRAWING LEGEND

CB CATCH BASIN

CB/MH (CATCH BASIN/MANHOLE

SANITARY SEWER

– ST – STORM SEWER

CS CURB STOP

FIL - FIRE HYDRANT

UP O UTILITY POLE

(M) WATER METER

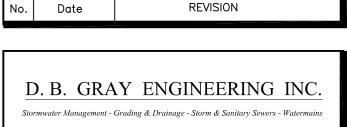
_________ WATER SERVICE / WATERMAIN

(R) REMOTE WATER METER READOUT

EXISTING GRADE ELEVATION

+ 93.79 PROPOSED GRADE ELEVATION

MH (() MANHOLE



RE-ISSUED FOR APPROVAL

ISSUED FOR APPROVAL

ISSUED FOR CLIENT REVIEW

Tel: 613-425-8044 700 Long Point Circle dbgray@rogers.com Ottawa, Ontario K1T 4E9

PROPOSED SINGLE DWELLING 946 COLONEL BY DRIVE OTTAWA, ONTARIO

JUN 29-1

JUN 26-15

BFL = 64.36

VSF = 64.08

22.5 LONG RADIUS BEND

EXIST MH

TOP 67.05

INV <u>+</u>64.75 \

DOWNING STREET

100 ST INV 64.90

Concrete

300 ST SPL <u>+</u>64.90

SUMP

Colonel By Drive

(Brick)

Interlocking

Brick Sidewalk

22.5° LONG

RADIUS BEND

300^OST INV +64.74

150 SAN TOP 62.48

₹135 SAN INV 64.23

EXISTING 200 WM

(APPROXIMATE LOCATION)

Sidewalk

¦\$ 0 4225 \$AN SPL<u>0+</u>64.239

2 Storey Dwelling

EXISTING 300 ST @ 0.33%

EXISTING 225 SAN @ 0.50%

EXIST CB

TOR, 67.02

♦ Centerline of Road

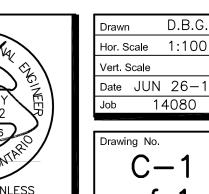
JOB BENCHMARK #2

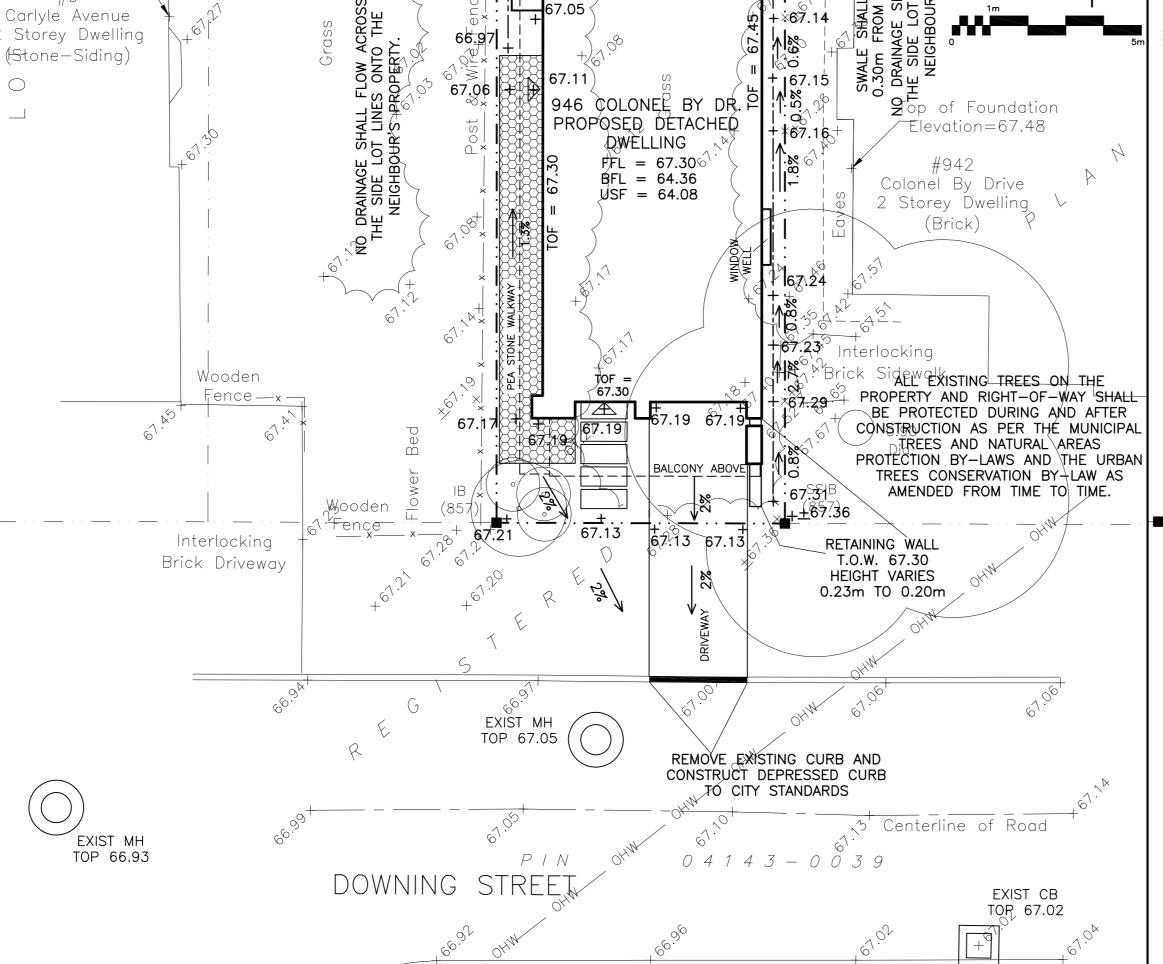
Sidewalk Elev=67.13

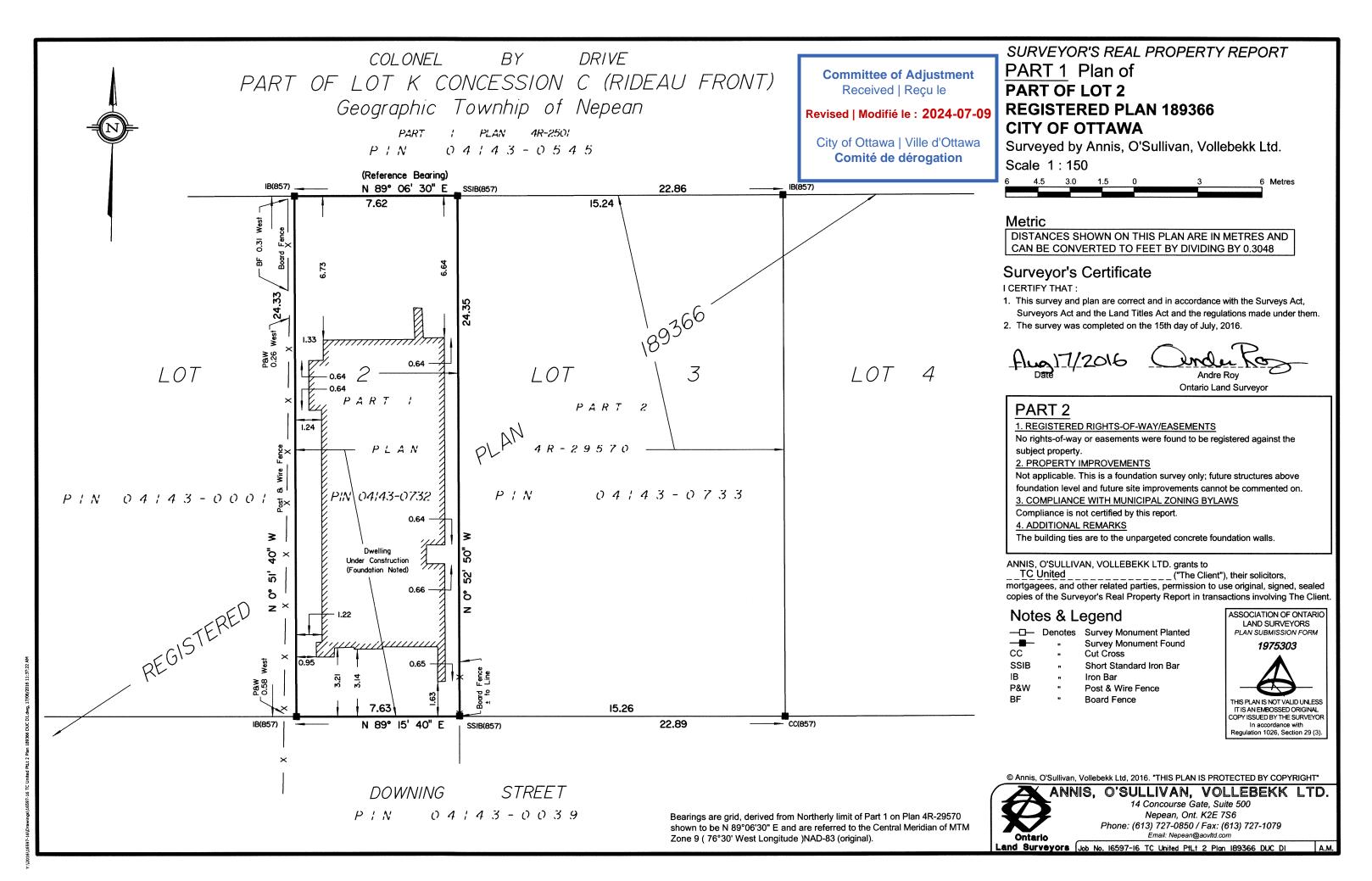
Cut Cross in Concrete

SITE SERVICING & GRADING PLAN













Request for Minor Variance

946 Colonel By Drive, Ottawa, ON | Zoning: R3Q[2118]H(9)

VARIANCE 1: To permit a building height of 11.74 m

- Whereas:
 - 1. The Zoning by law 2008-250 states that the maximum building height permitted is 9 m.
 - 2. Part 2 Section 60 (3.a.) states an addition to a building in an area to which a heritage overlay applies is permitted only if: the height of the walls and the height and slope of the roof of the addition do not exceed those of the building.
- Design Rationale:

The addition / additional building height of 2.74m is proposed to be step-back from the front and rear walls of the existing house by 4.9 m (16 ft) resulting in a close 2:1 ratio. The proposed GFA of the addition is $37.5 \, \text{m}^2$ ($404 \, \text{ft}^2$) = less than 50% of the floor area below.

As a result, the proposed design:

- 1. Preserves the emphasis of the existing 9 m building height along the streetscape.
- 2. Reduces the visual appearance of the proposed addition from the street level below.

VARIANCE 2: To permit a reduced setback for the level 4 terrace.

- Whereas: Part 2 Section 55 Table 55 (8.a.ii) states where a terrace is not located on the roof of the uppermost storey and meets or exceeds an area equivalent to 25 per cent of the gross floor area of the storey it is adjacent to and most equal to in height: minimum 1.5 m from any exterior wall of the building.
- Design Rationale:

The proposed level 4 terrace setback of 2'-6" (0.762 m) (50% of the required setback) is located along the eastern property line. This reduced setback is located within a tight side yard and sheltered by mature trees that reduce its visibility from adjacent neighbours and surrounding street level.

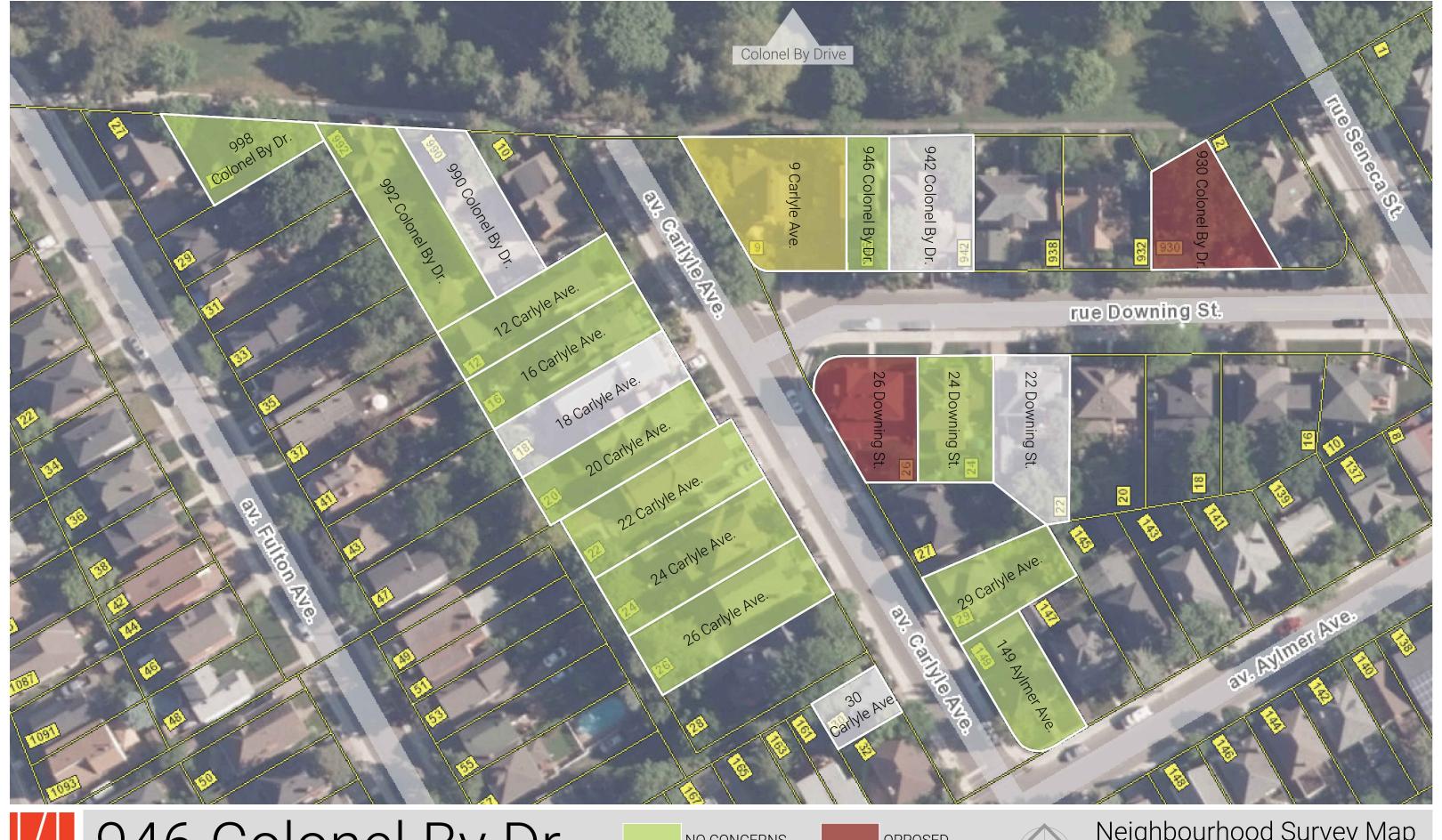
As a result, conditions of impact, privacy, and overlook are minimal.





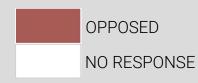
946 Colonel By Dr.
New Addition - Level 4

Context Aerial



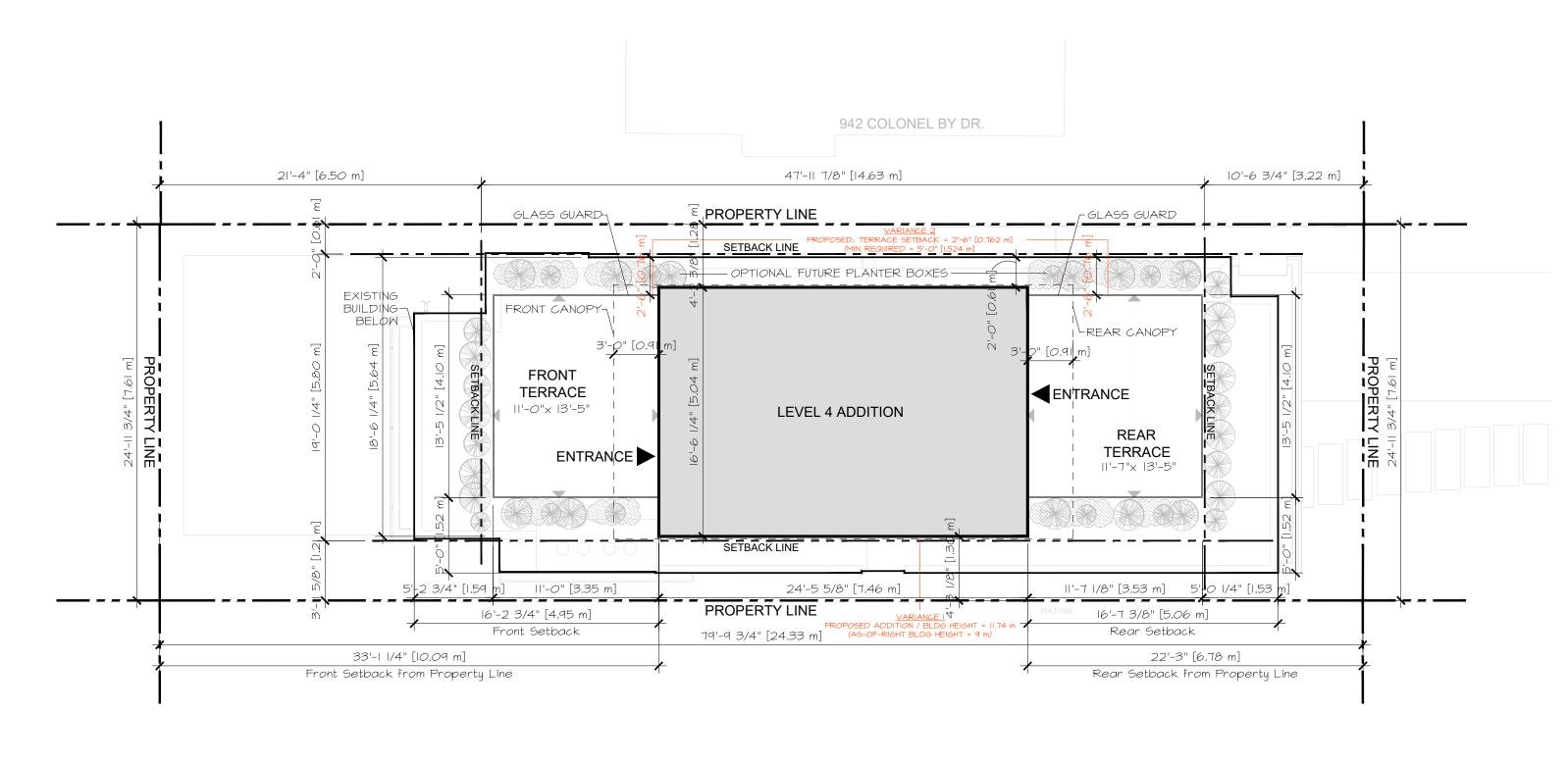


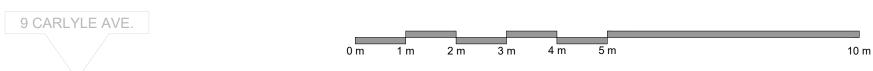






Neighbourhood Survey Map

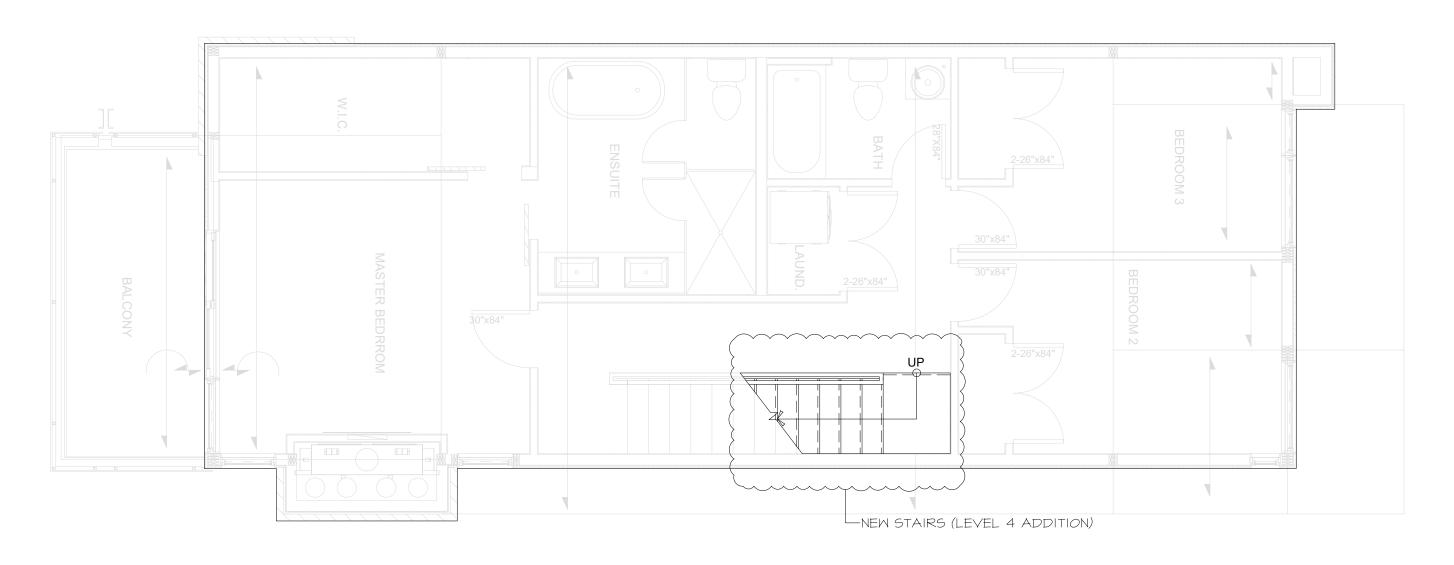








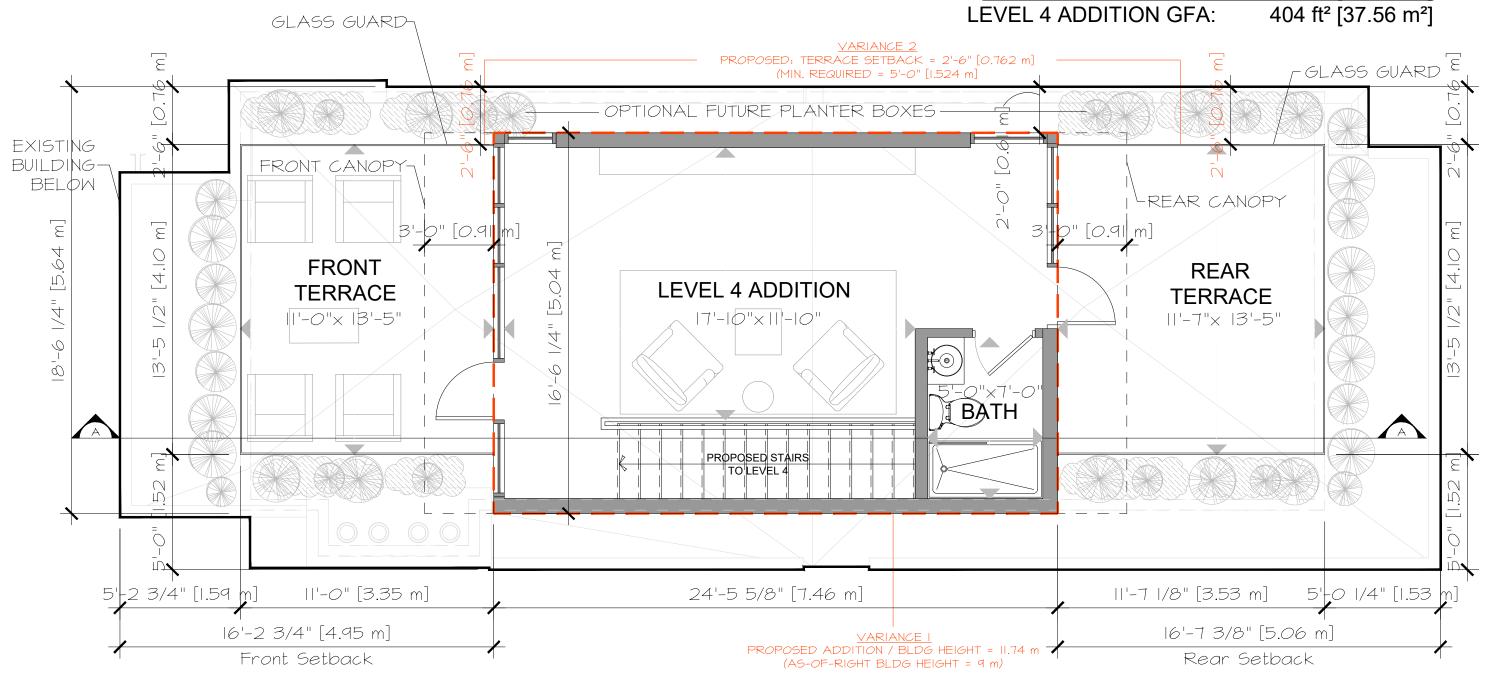
LEVEL 3 GFA: 897 ft² [83.32 m²]



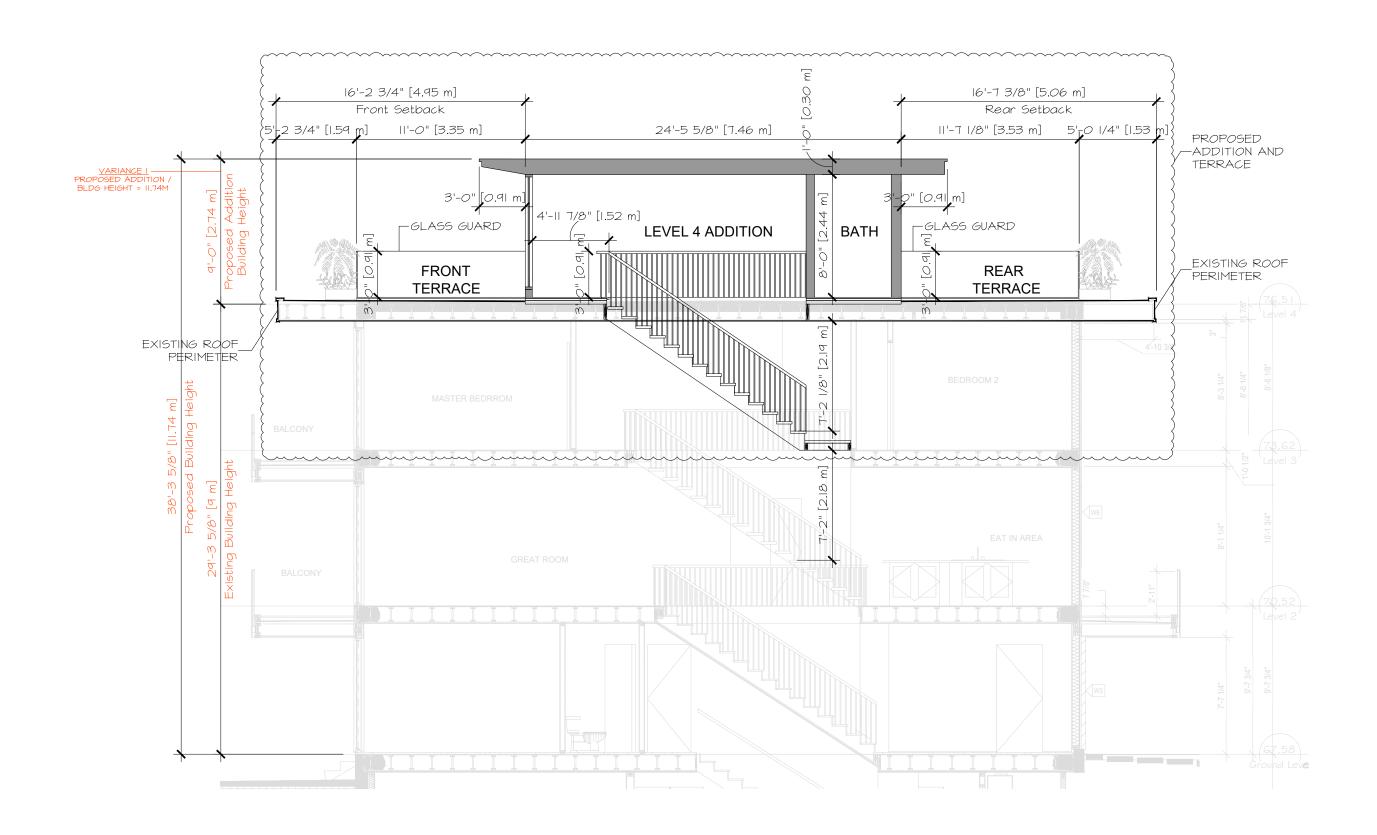


JUNE 26, 2024

FRONT TERRACE GFA: 148 ft² [13.75 m²]
REAR TERRACE GFA: 156 ft² [14.49 m²]
TOTAL TERRACE GFA: 304 ft² [28.24 m²]
LEVEL 4 ADDITION GFA: 404 ft² [37.56 m²]



















946 Colonel By Dr. New Addition - Level 4

ELEVATION - North West, Colonel By Dr.





ELEVATION - North West, Colonel By Dr.



946 Colonel By Dr.
New Addition - Level 4

ELEVATION - South West, Downing St.





ELEVATION - South East, Downing St.





STREETVIEW - Downing St Looking West

JUNE 26, 2024



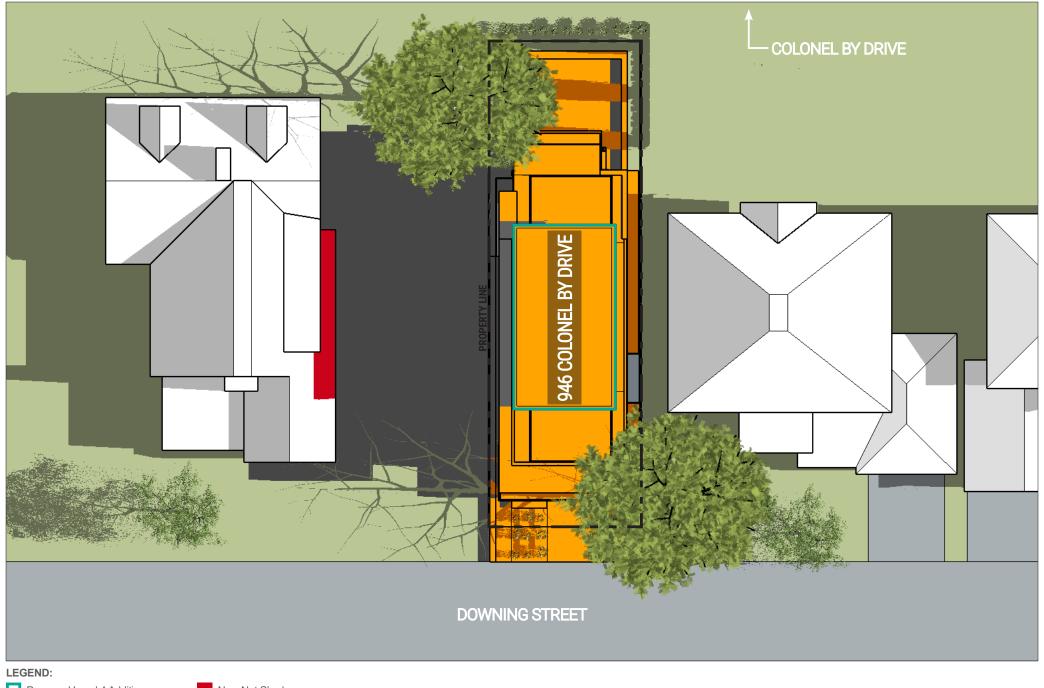


AERIAL VIEW - East





AERIAL VIEW - South East



946 Colonel By Drive

New Net Shadow

Existing Shadow





946 COLONEL BY DRIVE

New Addition - Level 4
Top-View Shadow Analysis

Company: Prepared by: Date: Hobin Architecture Cristina Hoang June 05, 2024 Application No.:
Application Type:
Scale:

1/16" = 1'-0"

Figure test time: **JUNE 21 9:00am**

Eastern Daylight Time (EDT) = Universal Time, 4 hours

Page 1 of



946 Colonel By Drive

New Net Shadow

Existing Shadow





946 COLONEL BY DRIVE

New Addition - Level 4
Top-View Shadow Analysis

Company: Prepared by: Date: Hobin Architecture Cristina Hoang June 05, 2024 Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time: JUNE 21 10:00am
Eastern Daylight Time (EDT) = Universal Time, 4 hours

Page 2 of 9



946 Colonel By Drive

Existing Shadow





946 COLONEL BY DRIVE **New Addition - Level 4**

Company: Prepared by: Date:

Hobin Architecture Cristina Hoang June 05, 2024

Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time: JUNE 21 11:00am Eastern Daylight Time (EDT) = Universal Time, 4 hours



946 Colonel By Drive

New Net Shadow Existing Shadow





946 COLONEL BY DRIVE

New Addition - Level 4 Top-View Shadow Analysis

Company: Prepared by: Date:

Hobin Architecture Cristina Hoang June 05, 2024

Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time: JUNE 21 12:00am Eastern Daylight Time (EDT) = Universal Time, 4 hours



946 Colonel By Drive

Existing Shadow



Company: Prepared by: Date:

Hobin Architecture Cristina Hoang June 05, 2024

Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time:

946 COLONEL BY DRIVE **New Addition - Level 4** Top-View Shadow Analysis

JUNE 21 1:00pm
Eastern Daylight Time (EDT) = Universal Time, 4 hours



946 Colonel By Drive









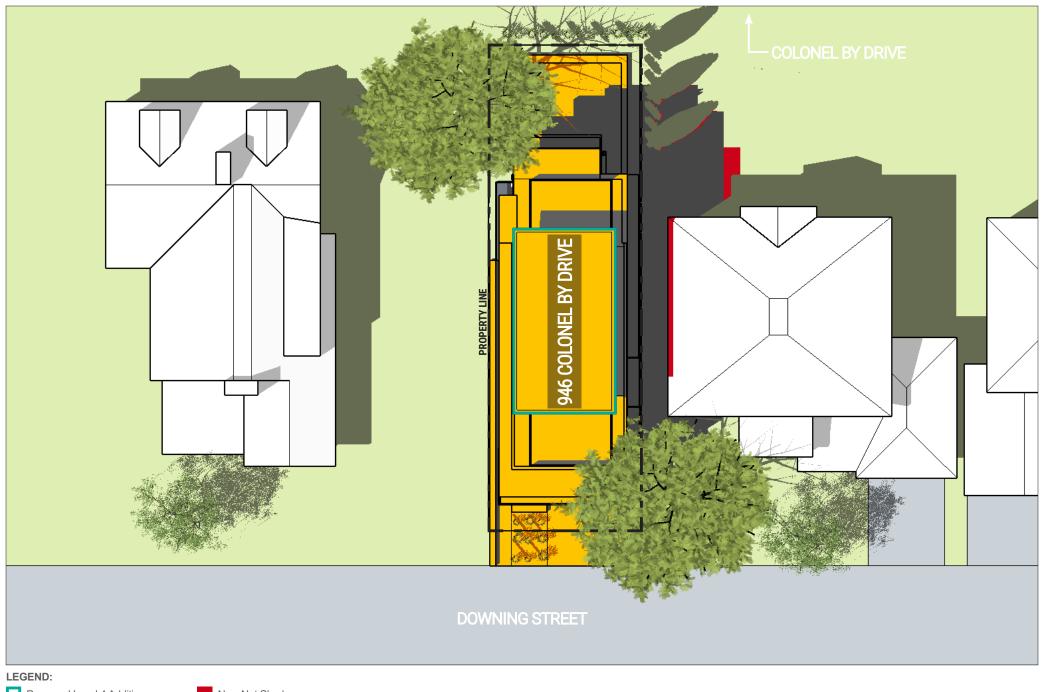
Company: Prepared by: Date:

Hobin Architecture Cristina Hoang June 05, 2024

Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time: JUNE 21 2:00pm
Eastern Daylight Time (EDT) = Universal Time, 4 hours



946 Colonel By Drive







946 COLONEL BY DRIVE

New Addition - Level 4 Top-View Shadow Analysis

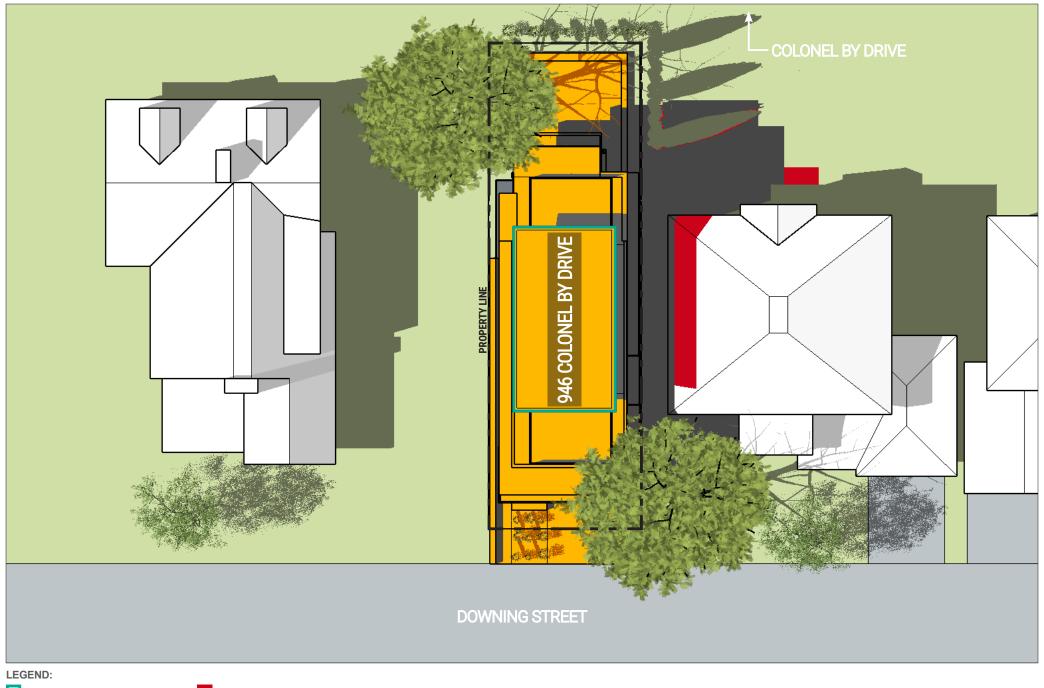
Company: Prepared by: Date:

Hobin Architecture Cristina Hoang June 05, 2024

Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time: JUNE 21 3:00pm
Eastern Daylight Time (EDT) = Universal Time, 4 hours



946 Colonel By Drive

New Net Shadow Existing Shadow





946 COLONEL BY DRIVE

New Addition - Level 4 Top-View Shadow Analysis

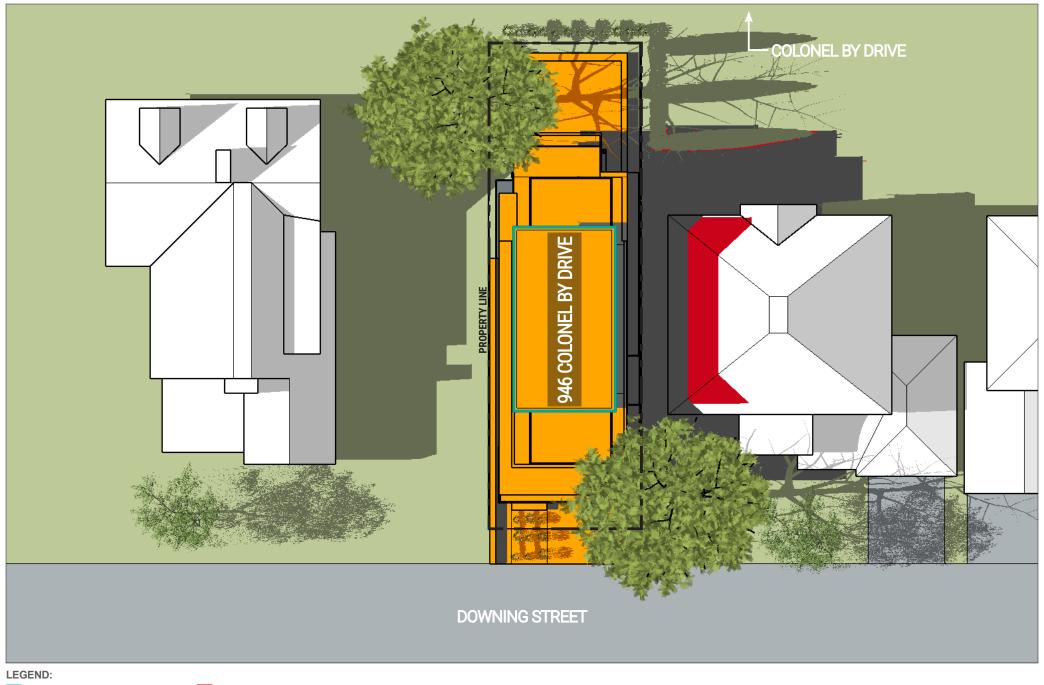
Company: Prepared by: Date:

Hobin Architecture Cristina Hoang June 05, 2024

Application No.: Application Type: Scale:

1/16" = 1'-0"

Figure test time: JUNE 21 4:00pm
Eastern Daylight Time (EDT) = Universal Time, 4 hours



946 Colonel By Drive

New Net Shadow
Existing Shadow





946 COLONEL BY DRIVE

New Addition - Level 4
Top-View Shadow Analysis

Company: Prepared by: Date: Hobin Architecture Cristina Hoang June 05, 2024 Application No.:
Application Type:
Scale:

1/16" = 1'-0"

Figure test time:

JUNE 21 4:00pm

Eastem Daylight Time (EDT) = Universal Time, 4 hours