

<u>LEGEND</u>

PROPERTY LINE

OPSD 600.110

CONCRETE CURB

LANDSCAPED AREA

U-FILL CONCRETE

PAINTED LINE

MAIN ENTRANCE

OVER HEAD DOOR

EX. HYDRO POLE

BASIN MAINHOLE

EX.MH EXISTING STORM MANHOLE

EX.MH EXISTING SANITARY MANHOLE

EX.WV EXISTING WATER VALVE

BORE HOLE

TO REMAIN

ELEVATION

PROPOSED CATCH BASIN

PROPOSED STORM MANHOLE

EXISTING FIRE HYDRANT

PROPOSED WATER VALVE

OVERLAND FLOW ROUTE

EXISTING ELEVATION

EXISTING ELEVATION

PROPOSED TOP/CURB

PROPOSED ELEVATION

(DRAINAGE DIVIDE)

PROPOSED SURFACE SLOPE

100 YR. STORM HWL AREA

PROPOSED FIRE HYDRANT

PROPOSED CATCH BASIN MANHOLE

UTILITY POLE

DCBMH DOUBLE CATCH

EX.CB EXISTING CATCH

TOE WALL

⊕UP

RETAINING WALL/CONCRETE

FINISHED FLOOR ELEVATION

BARRIER FREE PARKING

CONCRETE

PROPOSED CONCRETE CURB

CONCRETE WALKWAY/SIDEWALK

PROPOSED DEPRESSED

# **KEY MAP** SCALE: N.T.S.

- ALL WORKS, MATERIALS AND CONSTRUCTION METHODS CONFIRM TO THE LATEST MUNICIPAL STANDARDS, THE PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS (OPSD AND OPSS). AND WHERE APPLICABLE / REQUIRED, LOCAL UTILITY STANDARDS, MINISTRY OF THE ENVIRONMENT (MOE), THE ONTARIO BUILDING CODE (OBC) AND ONTARIO OF MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT" AND ITS LATEST AMENDMENTS THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- SHOULD DEEPLY BURIED ARCHEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATELY (416-314-8392). IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING SOIL STRIPPING ACTIVITIES, BOTH OF THE ONTARIO MINISTRY OF CULTURE, AND THE REGISTRAR OR DEPUTY REGISTRAR OF THE CEMETERIES REGULATION UNIT OF THE MINISTRY OF CONSUMER AND COMMERCIAL RELATIONS (416-326-8392), SHOULD BE NOTIFIED IMMEDIATELY AS WELL AS THE LOCAL POLICE.
- ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL - BOOK 7 -TEMPORARY CONDITIONS (LATEST EDITION).
- THE CONTRACTOR SHALL RECTIFY ANY DISTURBED AREAS TO ITS ORIGINAL CONDITION OR BETTER TO THE SATISFACTIONS OF THE
- 6. THE DRAWING SHALL BE READ IN CONJUNCTIONS WITH ALL DRAWINGS, REPORTS AND SPECIFICATIONS THAT RELATE TO THIS PROJECT.
- 7. FOR ALL LEGAL SURVEY AND TOPOGRAPHY INFORMATION REFER TO PLAN PREPARED BY RICHMOND SURVEYING INC. DATED. AUGUST 18, 2024
- 8. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 9. THE CONTRACTOR IS TO REPORT ALL DISCOVERIES OF ERRORS OMISSIONS OR DISCREPANCIES TO THE ENGINEER AS APPLICABLE. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO: 1 CONFIRM UTILITY LOCATIONS, AND 2) NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS, PRIOR TO CONSTRUCTION, WILL BE TO THE CONTRACTOR'S PERIL AND
- 10. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTIONS OF THE GOVERNING AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE GOVERNING AUTHORITY.
- 11. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
- 12. THERE WILL BE NO SUBSTITUTION OF MATERIALS OR SPECIFIED PRODUCTS LINELESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE ENGINEER.
- 13. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE LATEST GEO-TECHNICAL REPORT, AND THE STORM WATER MANAGEMENT REPORT FOR THIS SITE IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LATEST COPIES OF SAID REPORTS.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, AND BEARING THE COSTS OF, ALL REQUIRED PERMITS, UNLESS SPECIFIED
- 15. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE CONTRACTOR ADMINISTRATOR AND/OR THE MUNICIPALITY PRIOR TO ANY TREE
- 16. THE CONTRACTOR SHALL PROVIDE THE ENGINEER PERTINENT AS-BUILT MEASUREMENT, NOTES AND MARK-UPS TO ENABLE THE ENGINEER TO REVIEW AND REPAIRS AS-BUILT GRADING AND SITE
- 17.IT IS THE RESPONSIBILITIES IF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATIONS AND DESCRIPTIONS AND AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.
- 18. ANY EXISTING OR DISCOVERED WELLS OR MONITORING WELLS FOUND ON THE PROPERTY WILL NEED TO BE PROPERLY ABANDONED IN ACCORDANCE WITH O. REG. 903 AND IT'S AMENDMENTS.

# **CAUTION NOTES:**

1.0 CONTRACTOR TO DETERMINE LOCATION AND INVERTS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. IF THERE IS ANY DISCREPANCY, THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.

<u>APPLICANT:</u> ARCHITECTURE INC. 9120 Leslie Street, Suite-208 Richmond Hill, ON. L4B 3J9 : 416.256.9741 E: Info@narchitecture.com www.narchitecture.com

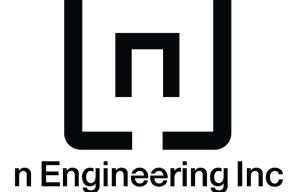
# **LEGAL DESCRIPTION:**

PART PLAN OF LOT 26 REGISTERED PLAN 455 TOWN OF WHITCHURCH STOUFFVILLE REGIONAL MUNICIPALITY OF YORK

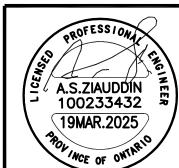
#### OWNER'S INFO: DARUL KHAIR CENTER STOUFVILLE

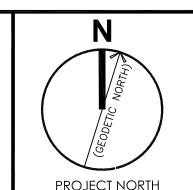
86 RINGWOOD DR. UNIT 36 WHITCHURCH-STOUFVILLE, ON

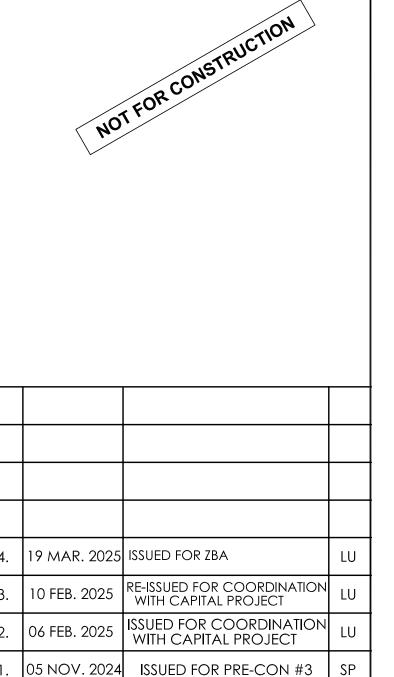
#### SURVEY INFOMATION: RICHMOND SURVEYING INC. 344-9471 YONGE STREET, RICHMOND HILL, ON PH.:647-333-6200 MAIL: mojito.tavallai@gmail.com PLAN DÁTED: AUGUSŤ 18, 2024



9120 Leslie Street, Suite-208 Richmond Hill, Ontario. L4B 3J9 T: 4 1 6 . 2 5 6 . 9 7 4 1 E: info@nengineering.com www.nengineering.com







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Version

No. Date

27 WINONA DR, WHITCHURCH STOUFFVILLE, ON **PLACE OF WORSHIP-MOSQUE** 

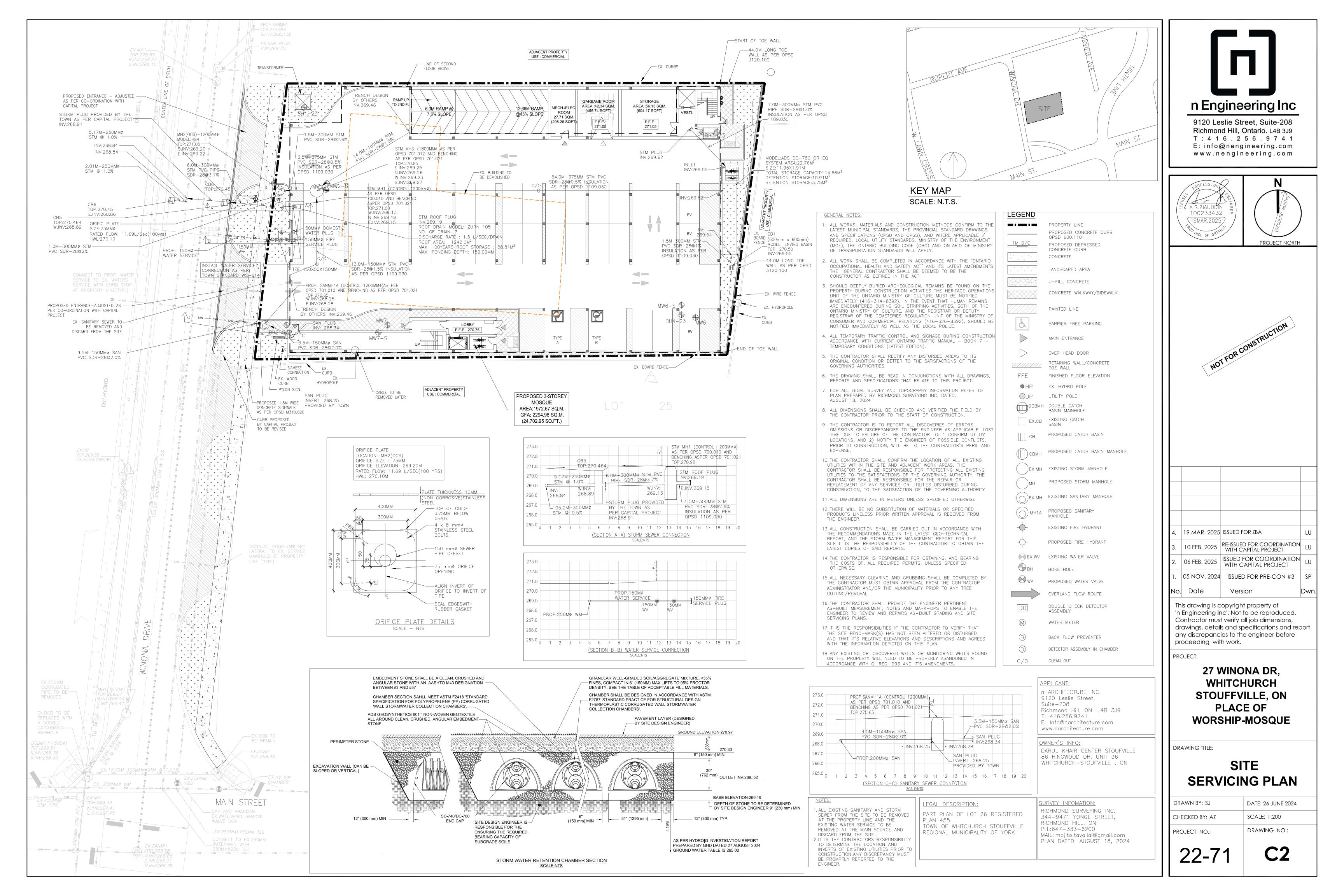
DRAWING TITLE:

Drawn by: SJ

**GRADING** SITE PLAN

SCALE: 1:200 CHECKED BY: AZ DRAWING NO .: PROJECT NO.:

DATE: 26 JUNE 2024



#### **GENERAL NOTES:**

- ALL WORKS, MATERIALS AND CONSTRUCTION METHODS CONFIRM TO THE LATEST MUNICIPAL STANDARDS, THE PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS (OPSD AND OPSS), AND WHERE APPLICABLE / REQUIRED, LOCAL UTILITY STANDARDS, MINISTRY OF THE ENVIRONMENT (MOE), THE ONTARIO BUILDING CODE (OBC) AND ONTARIO OF MINISTRY ÒF TRANSPORTATION STANDARDS WILL APPLY.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT" AND ITS LATEST AMENDMENTS THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
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- THE CONTRACTOR SHALL RECTIFY ANY DISTURBED AREAS TO ITS ORIGINAL CONDITION OR BETTER TO THE SATISFACTIONS OF THE GOVERNING AUTHORITIES.
- THE DRAWING SHALL BE READ IN CONJUNCTIONS WITH ALL DRAWINGS, REPORTS AND SPECIFICATIONS THAT RELATE TO THIS PROJECT.
- FOR ALL LEGAL SURVEY AND TOPOGRAPHY INFORMATION REFER TO PLAN PREPARED BY RICHMOND SURVEYING INC. DATED. FEBRUARY 14,2024
- B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR IS TO REPORT ALL DISCOVERIES OF ERRORS OMISSIONS OR DISCREPANCIES TO THE ENGINEER AS APPLICABLE. LOS TIME DUE TO FAILURE OF THE CONTRACTOR TO: 1 CONFIRM UTILITY LOCATIONS, AND 2) NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS, PRIOR TO CONSTRUCTION, WILL BE TO THE CONTRACTOR'S PERIL AND

- . THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTIONS OF THE GOVERNING AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE GOVERNING AUTHORITY.
- ALL DIMENSIONS ARE IN METERS LINELESS SPECIFIED OTHERWISE. 2. THERE WILL BE NO SUBSTITUTION OF MATERIALS OR SPECIFIED PRODUCTS LINELESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM
- 3. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE LATEST GEO-TECHNICAL REPORT, AND THE STORM WATER MANAGEMENT REPORT FOR THIS SITE IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LATEST COPIES OF SAID REPORTS.
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- 5. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE CONTRACTOR ADMINISTRATOR AND/OR THE MUNICIPALITY PRIOR TO ANY TREE CUTTING/REMOVAL.
- 16. THE CONTRACTOR SHALL PROVIDE THE ENGINEER PERTINENT AS-BUILT MEASUREMENT, NOTES AND MARK-UPS TO ENABLE THE ENGINEER TO REVIEW AND REPAIRS AS-BUILT GRADING AND SITE SERVICING PLANS.
- 17. IT IS THE RESPONSIBILITIES IF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATIONS AND DESCRIPTIONS AND AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.
- 18. ANY EXISTING OR DISCOVERED WELLS OR MONITORING WELLS FOUND ON THE PROPERTY WILL NEED TO BE PROPERLY ABANDONED IN ACCORDANCE WITH O. REG. 903 AND IT'S AMENDMENTS.

- EROSION & SEDIMENT CONTROL NOTES:
- CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN, AS PER OPSS 805, TO THE SATISFACTION OF THE GOVERNING AUTHORITY, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.).
- DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND GOVERNING AUTHORITY IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL.

CONTRACTOR WILL MONITOR THE WATER CLARITY DOWNSTREAM OF THE

- WORK SITE THROUGHOUT THE DAY AND DURING RAIN EVENTS. NO TURBID WATER IS PERMITTED TO LEAVE THE WORK AREA. CONTRACTOR WILL INSTALL ADDITIONAL MEASURES AS REQUIRED IN ORDER TO ENSURE AND PREVENT TRANSPORTATION OF SEDIMENT DOWNSTREAM.
- SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE GOVERNING AUTHORITY. MINIMUM MEASURES WLL CONSIST, WITHOUT BEING LIMITED TO, THE INSTALLATION OF FILTER CLOTHS ACROSS MANHOLE AND CATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE, PLACEMENT OF RIP RAP TO REDUCE THE MOVEMENT OF LOOSE SOIL, AND THE INSTALLATION OF A LIGHT-DUTY SILT FENCE BARRIER (OPSD 219.110) AROUND ANY DISTURBED AREAS, AS REQUIRED. IT IS NOTED THAT HEAVY DUTY SILT FENCE BARRIER (OPSD 219.130) WILL BE REQUIRED BETWEEN ANY DISTURBED AREA (WTHIN 30M OF A WATERCOURSE) AND THE WATERCOURSE OR SENSITIVE NATURAL FEATURE. SEDIMENT FENCING WILL NOT BE REMOVED UNTIL THE TERRESTRIAL VEGETATION HAS BECOME RE-ESTABLISHED.
- ANY STOCKPILES OF SOIL OR FILL MATERIAL SHALL BE STORED AT LEAST 30M FROM THE WATERCOURSE AND SHALL BE PROTECTED BY
- CONTRACTOR MUST IMPLEMENT EROSION CONTROL MEASURES PRIOR TO SITE ALTERATION AND MAINTAIN THEM UNTIL THE SITE HAVE BEEN

- EROSION AND SEDIMENT CONTROL (ECS) MEASURES WILL BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING CONSTRUCTION PHASES TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48 HOURS OF INSPECTION OR BOTH.
- ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESS.
- THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITION CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREA. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE THE POTENTIAL ECOLOGICAL IMPACTS AND A RAISIN REGION CONSERVATION AUTHORITY ENFORCEMENT OFFICE SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY
- . ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCE INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE AND REFUELING WILL BE CONDUCTED A MINIMUM OF 30M FROM THE
- . ALL GRADES WITHIN THE REGULATORY FLOOR PLAN WILL BE MAINTAINED OR MATCHED.
- . ALL EQUIPMENT WORKING WITHIN 30M OF THE WATERCOURSE SHALL BE WELL MAINTAINED, CLEAN AND FREE OF LEAKS.

CATCH BASIN FRAME AND GRATI

WOVEN GEOTEXTILE TO HAVE A MINIMUM

2. GEOTEXTILE TO BE REPLACED PERIODICALLY

WHEN ACCUMULATED SEDIMENTS INTERFERES WITH DRAINAGE OR AS DIRECTED BY THE

TRANSPORTATION AND WORKS DEPARTMENT

AND SITE CONDITIONS.

CATCH BASIN & CATCH BASIN MANHOLE SEDIMENT CONTROL DEVICE

SCALE - N.T.S

EQUIVALENT OPENING SIZE OF 0.15MM AND A MAXIMUM EQUIVALENT OPENING SIZE OF

0.25MM OR A NON WOVEN GEOTEXTILE TO BE CONSIDERED BASED ON SOIL PARAMETERS

ARCHITECTURE INC.

Richmond Hill, ON. L4B 3J9

PART PLAN OF LOT 26 REGISTERED

TOWN OF WHITCHURCH STOUFFVILLE

REGIONAL MUNICIPALITY OF YORK

E: Info@narchitecture.com

www.narchitecture.com

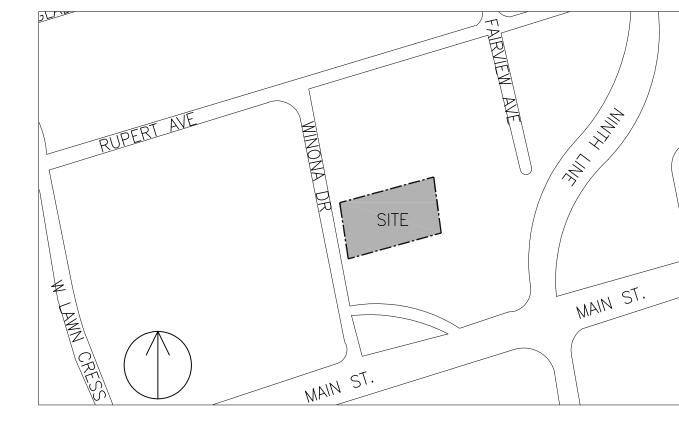
**LEGAL DESCRIPTION:** 

9120 Leslie Street,

T: 416.256.9741

Suite-208

PLAN 455



**KEY MAP** SCALE: N.T.S.

PROPERTY LINE

MUD MAT

DARUL KHAIR CENTER STOUFVILLE

86 RINGWOOD DR. UNIT 36

RICHMOND SURVEYING INC.

344-9471 YONGE STREET,

MAIL: mojito.tavallai@gmail.com

PLAN DATED: AUGUST 18, 2024

SURVEY INFOMATION

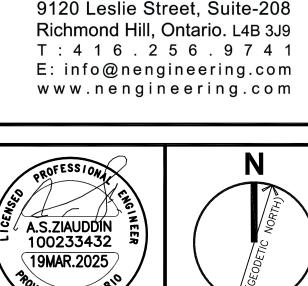
RICHMOND HILL, ON

PH.:647-333-6200

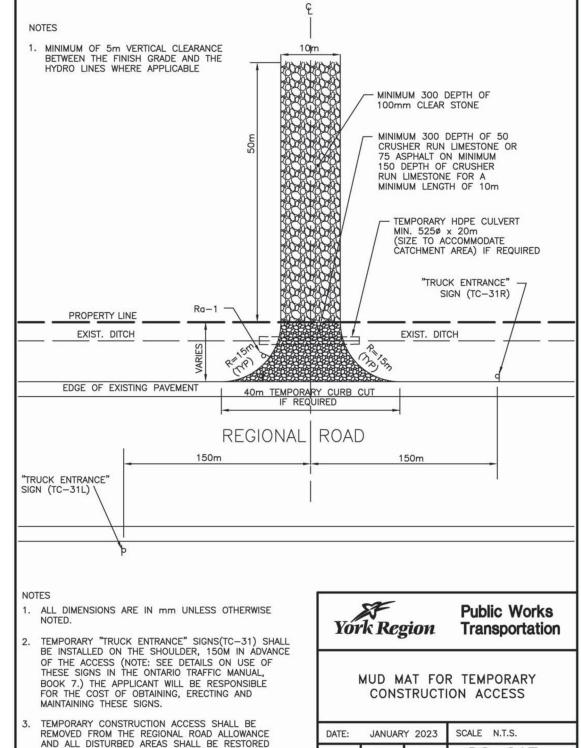
WHITCHURCH-STOUFVILLE, ON

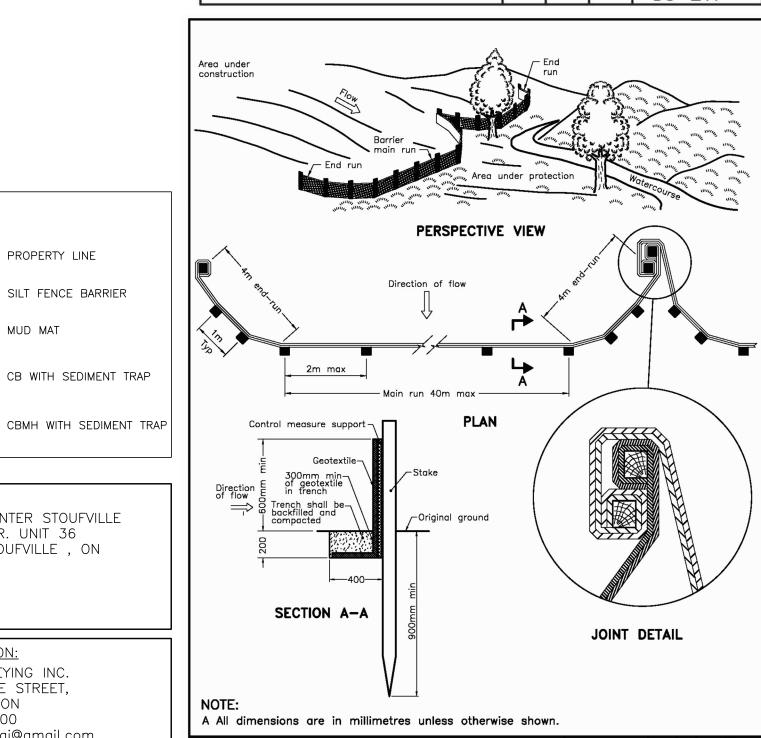
SILT FENCE BARRIER

CB WITH SEDIMENT TRAP

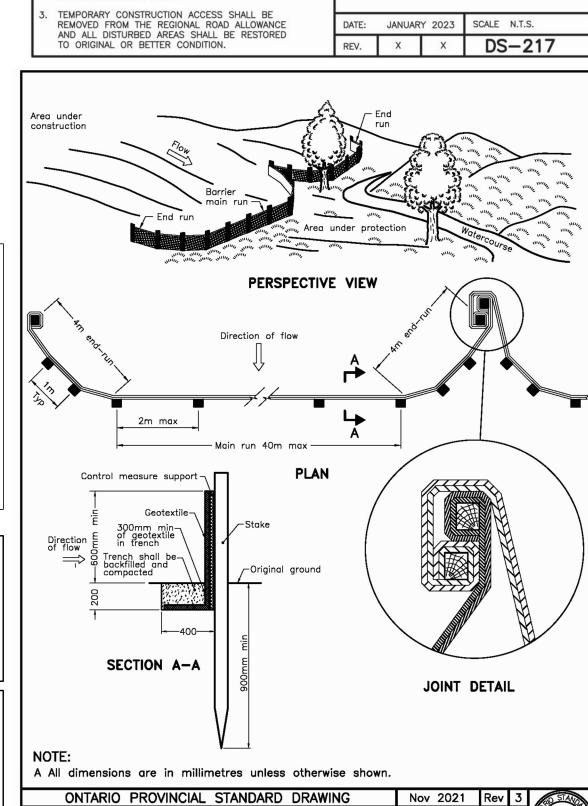


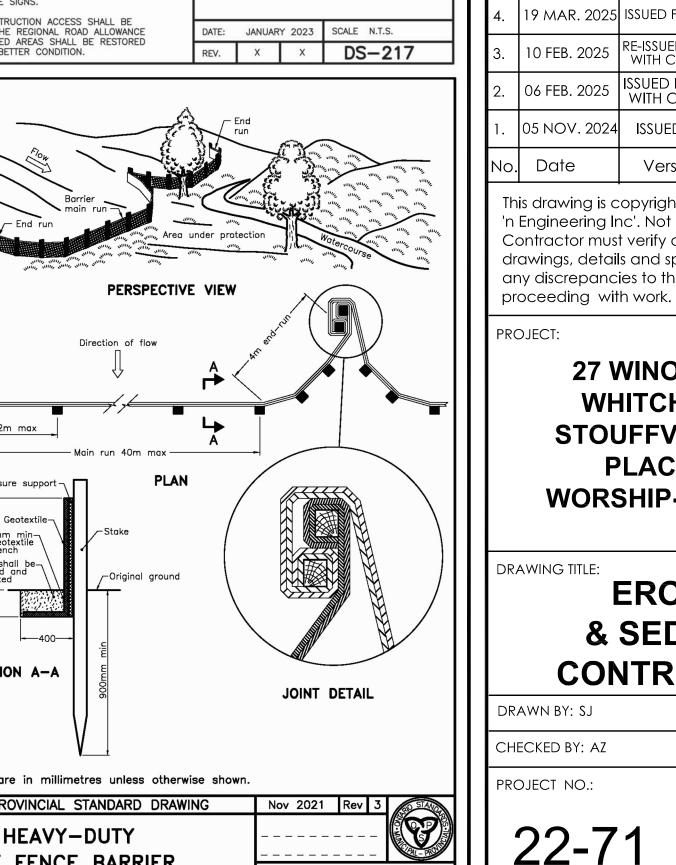
n Engineering Inc





SILT FENCE BARRIER





OPSD 219.130

PROJECT NORTH 19 MAR. 2025 ISSUED FOR ZBA RE-ISSUED FOR COORDINATION WITH CAPITAL PROJECT ISSUED FOR COORDINATION WITH CAPITAL PROJECT 05 NOV. 2024 ISSUED FOR PRE-CON #3 Version

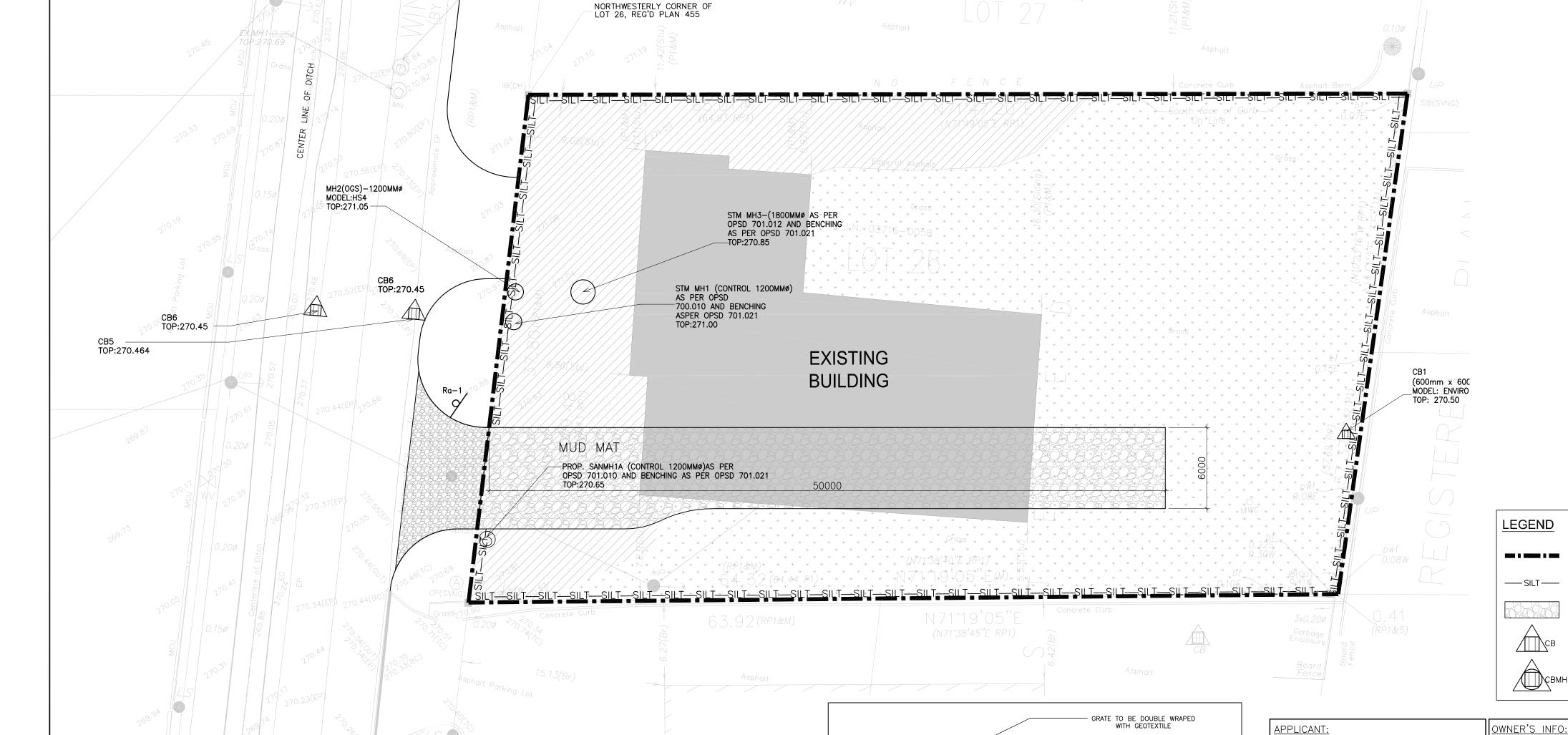
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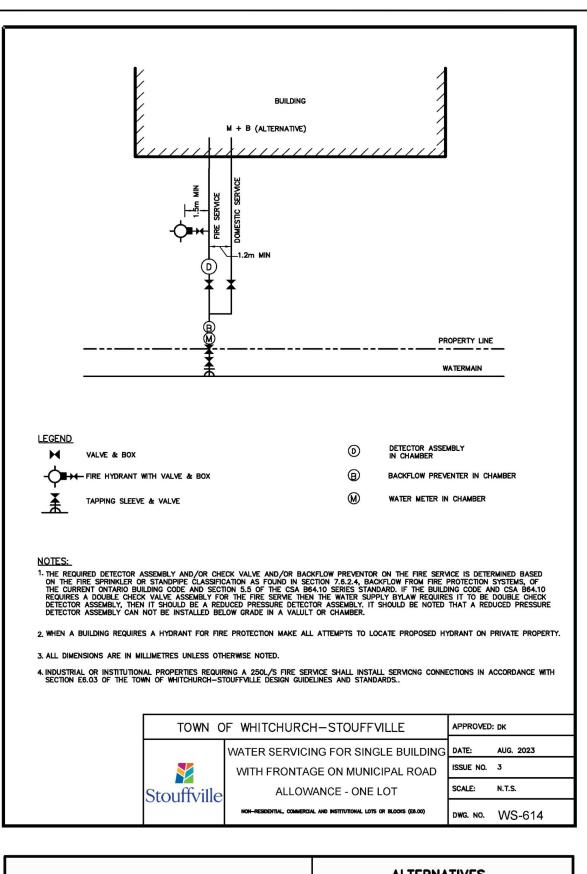
> 27 WINONA DR, WHITCHURCH STOUFFVILLE, ON PLACE OF **WORSHIP-MOSQUE**

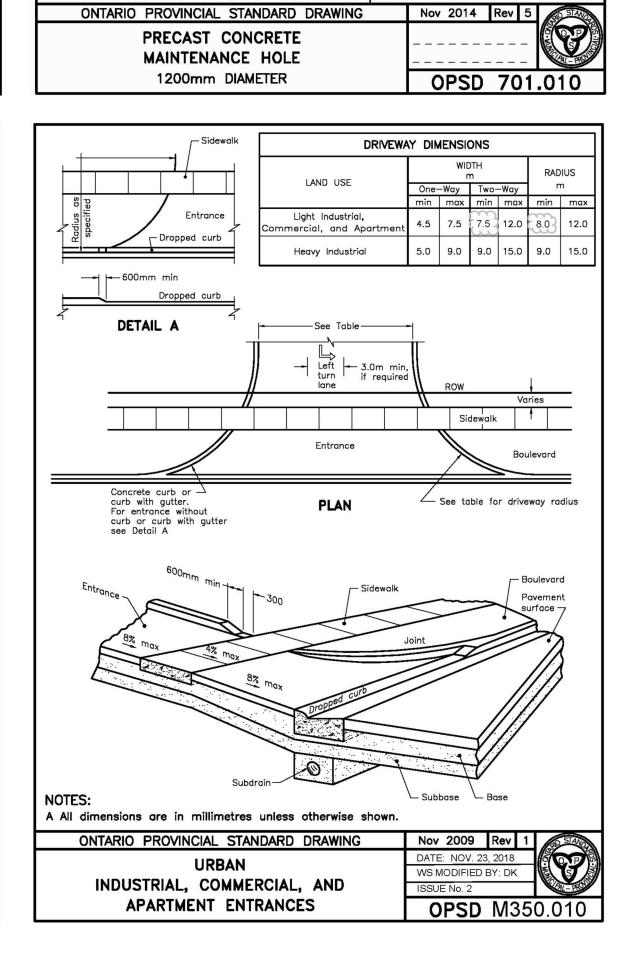
**EROSION & SEDIMENT CONTROL PLAN** 

SCALE: 1:200 DRAWING NO .:

DATE: 26 JUNE 2024







Granular —

sump as

SUMP DETAIL

**ALTERNATIVES** 

Bottom riser section with

ø1200 –

4-1-4-

A PRECAST SLAB BASE

Steel reinforcement

B CAST-IN-PLACE BASE

4 4 4

— ø1200 —

C PRECAST FLAT CAP

inlet and outlet openings to su

Tapered top See alternative C

Monolithic base with inlet

and outlet openings to suit See alternatives A and B

300mm, Typ --

1 The sump is measured from the lowest invert.

thickness of 300mm all around the

A Granular backfill shall be placed to a minimum

3 Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.

C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.

ONTARIO PROVINCIAL STANDARD DRAWING

D Pipe support according to OPSD 708.020.

F For adjustment unit and frame installation, see OPSD 704.010.

E For benching and pipe opening details, see OPSD 701.021.

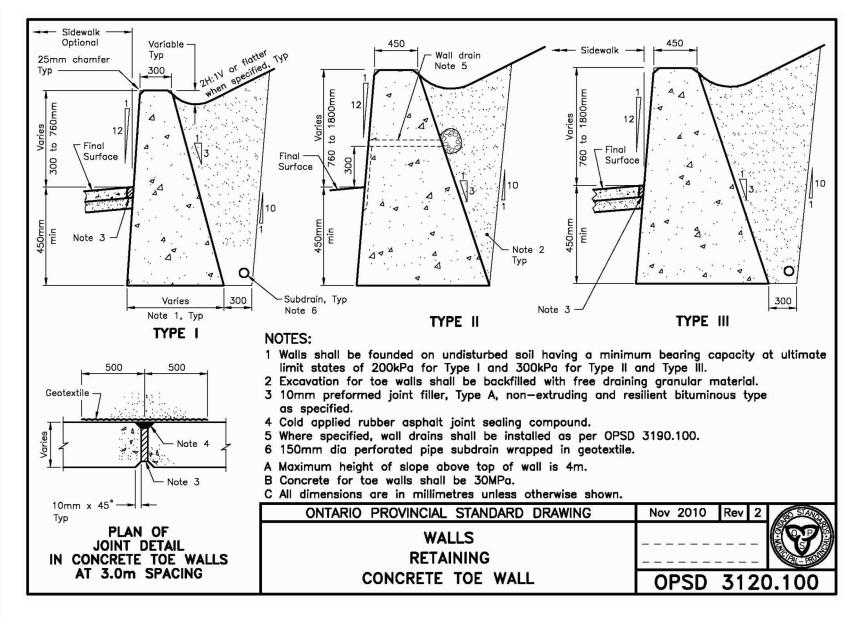
G All dimensions are nominal. H All dimensions are in millimetres

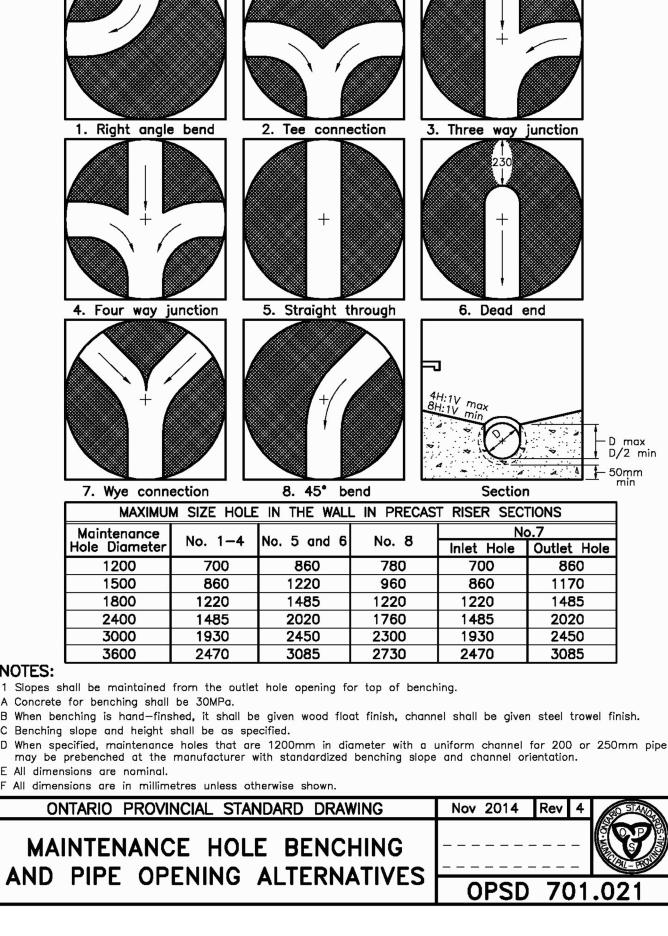
unless otherwise shown.

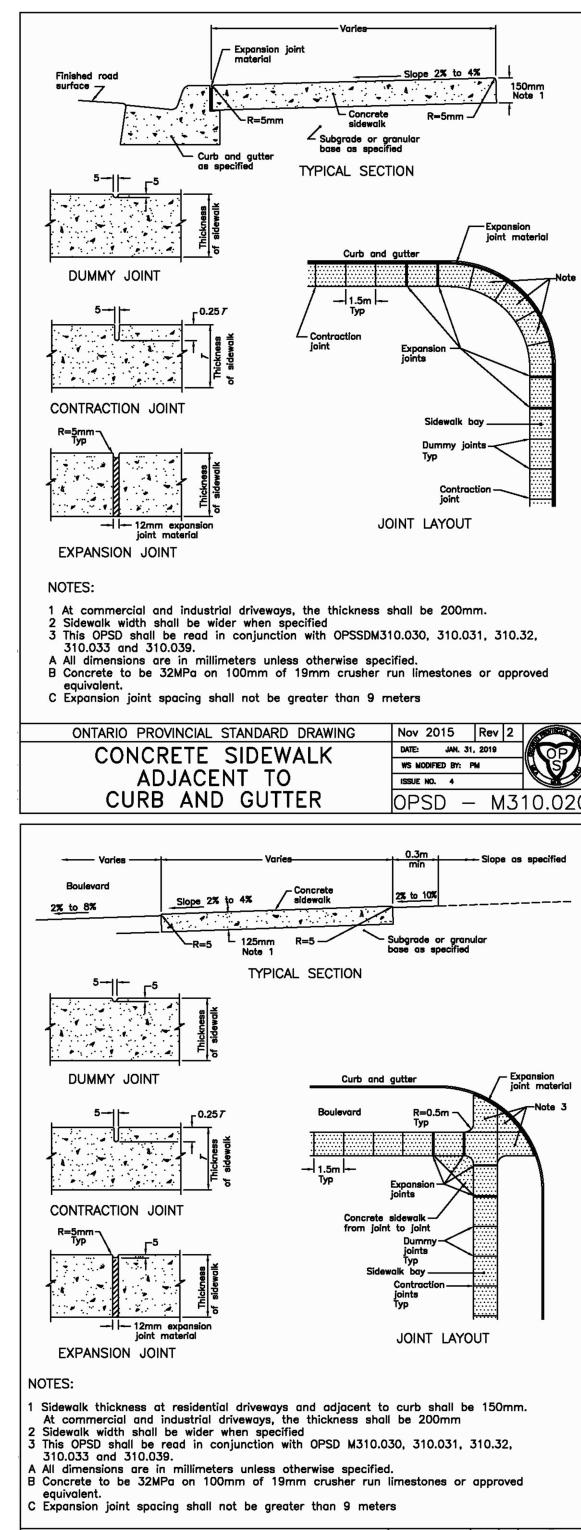
Bench or sump

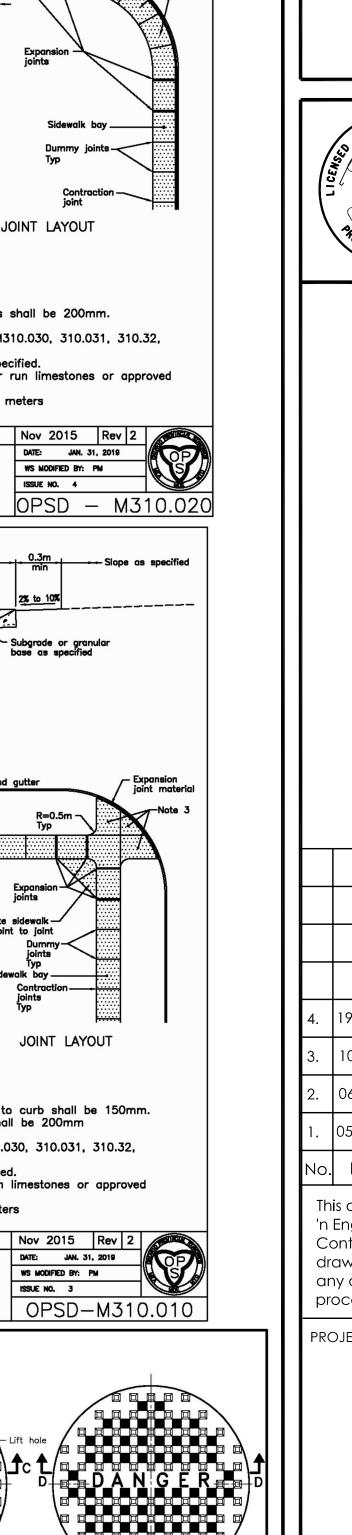
Granular bedding ----

—— ø1200 −









WS MODIFIED BY: PM

OPEN COVER

SECTION D-D

Nov 2013 Rev 3

DATE: NOV. 23, 2018

WS MODIFIED BY: DK

ISSUE No.1

OPSD M401.010

□ □ DANGER □ □

> > TYPE A

CLOSED COVER

SECTION C-C

ONTARIO PROVINCIAL STANDARD DRAWING CAST IRON, SQUARE FRAME WITH

CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES

A Covers shall be Type A or Type B, as specified.

B All dimensions are in millimetres unless otherwise shown.

C Type A covers on sanitary sewer manholes are to be used only where

24 | -29 - 29 - 22 | 

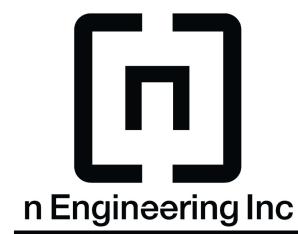
Hoisting hook rib, Typ, OPSD 400.001 FRAME PLAN

SECTION B-B

16.5

— ø578 –

SECTION A-A



9120 Leslie Street, Suite-208 Richmond Hill, Ontario. L4B 3J9 T: 4 1 6 . 2 5 6 . 9 7 4 1 E: info@nengineering.com www.nengineering.com





4.	19 MAR. 2025	ISSUED FOR ZBA	LU
3.	10 FEB. 2025	RE-ISSUED FOR COORDINATION WITH CAPITAL PROJECT	LU
2.	06 FEB. 2025	ISSUED FOR COORDINATION WITH CAPITAL PROJECT	LU
1.	05 NOV. 2024	ISSUED FOR PRE-CON #3	SP
No.	Date	Version	Dwn.

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27 WINONA DR, WHITCHURCH STOUFFVILLE, ON PLACE OF **WORSHIP-MOSQUE** 

DRAWING TITLE:

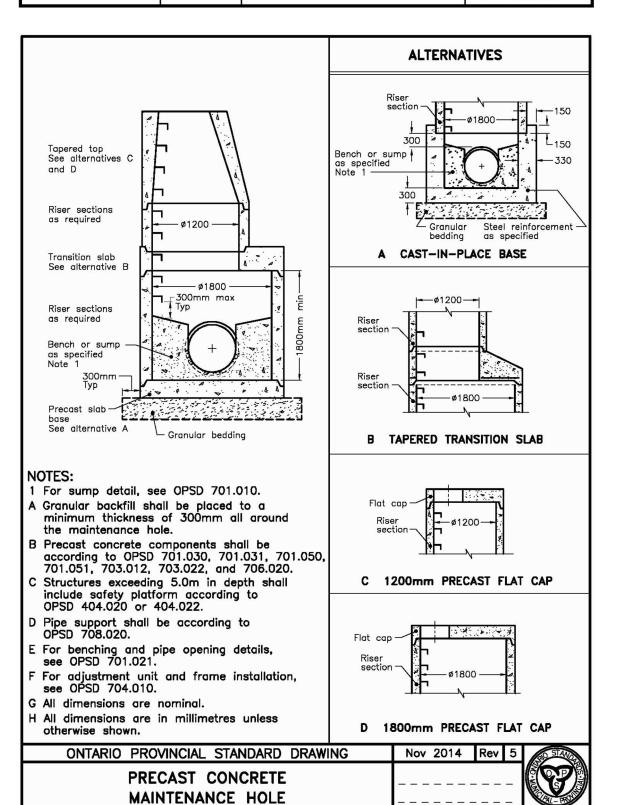
PROJECT NO.:

**STANDARD DRAWINGS** 

DRAWN BY: SJ DATE: 26 JUNE 2024 CHECKED BY: AZ SCALE: 1:200

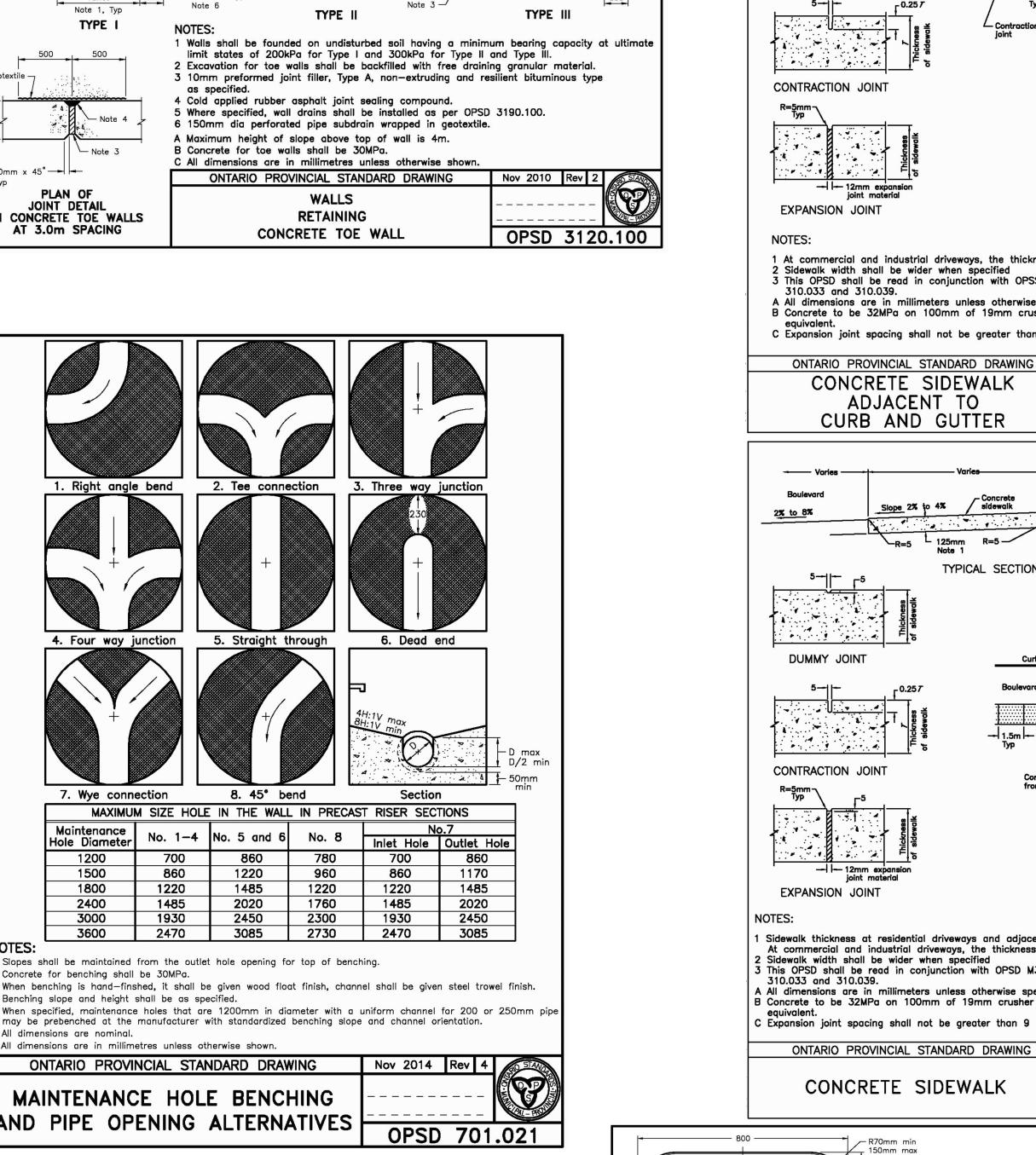
C4

DRAWING NO .:



OPSD 701.012

1800mm DIAMETER



#### GENERAL NOTES

- THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.
- 2. ALL MATERIALS ARE TO COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS PER APPROVED PRODUCTS AS LISTED IN SCHEDULE 'C' OF THE TOWN'S GUIDELINES.
- 3. THE STANDARD DRAWINGS OF THE TOWN OF WHITCHURCH-STOUFFVILLE, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF WHITCHURCH-STOUFFVILLE STANDARD DRAWINGS, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.
- 5. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ON THE ENGINEERING DRAWINGS ARE IN METRES OR MILLIMETERS.
- 6. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 7. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
- 8. THE CONTRACTOR IS RESPONSIBLE TO ARRANGE FOR AND MAINTAIN ALL UTILITY STAKE—OUTS AND LOCATES.
- 9. ALL PRIMARY HYDRO, STREET LIGHT CABLE, TELECOMMUNICATION CABLE, GAS LINES AND CABLE T.V. SHALL BE PLACED UNDERGROUND IN LOCATIONS SHOWN ON THE ROAD SECTIONS LISTED IN THE STANDARD DRAWINGS.
- 10. ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GROUND COVER HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN.
- 11. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 12. GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 13. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING A MIMIMUM DEPTH OF 150mm AND A MAXIMUM DEPTH OF 250mm OF APPROVED TOPSOIL AND No. 1 NURSERY SOD.
- 14. ALL FENCING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN STANDARD DRAWINGS.
- 15. THE STREET LIGHTING SYSTEM SHALL BE DESIGNED BY A QUALIFIED CONSULTING ENGINEER IN ACCORDANCE WITH THE ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) LATEST EDITION STANDARDS AND APPROVED BY THE TOWN. STREET LIGHTING SYSTEMS FOR ROADWAYS IN THE TOWN OF WHITCHURCH—STOUFFVILLE SHALL MEET THE REQUIREMENTS OF HYDRO ONE.
- 6. ALL DESIGNS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REGION OF YORK STANDARDS WHICH MEET THE REQUIREMENTS OF THE ACCESSIBLILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA).

#### GENERAL NOTES - ROADS

- 1. THE ROAD PAVEMENT MINIMUM STRUCTURE SHALL CONSIST OF THE FOLLOWING AND WILL BE CONFIRMED BY A SOILS CONSULTANT AND APPROVED BY THE TOWN:
- LOCAL ROAD: 40mm HL3 SURFACE COURSE ASPHALT
- 50mm HL8 BASE COURSE ASPHALT

  150mm 19mm CRUSHER RUN LIMESTONE \*

  300mm 50mm CRUSHER RUN LIMESTONE \*\*
- COLLECTOR ROAD: 40mm HL3 SURFACE COURSE ASPHALT
  - 100mm HL8 BASE COURSE ASPHALT (2 LIFTS)
    150mm 19mm CRUSHER RUN LIMESTONE \*
    - 150mm 19mm CRUSHER RUN LIMESTONE \*\*
      450mm 50mm CRUSHER RUN LIMESTONE \*\*
- \*EQUIVALENT DEPTH OF GRANULAR A FROM AN APPROVED SOURCE MAY BE SUBSTITUTED UPON OBTAINING WRITTEN APPROVAL FROM THE TOWN.
- \*\*EQUIVALENT DEPTH OF RECYCLED CONCRETE OR GRANULAR B FROM AN APPROVED SOURCE MAY BE SUBSTITUTED UPON OBTAINING WRITTEN APPROVAL FROM THE TOWN.
- 2. BOULEVARDS IN URBAN AREAS AND DITCHES IN RURAL AREAS ARE TO BE STABILIZED WITH
- No. 1 NURSERY SOD PLACED ON A MINIMUM 150mm AND MAXIMUM 250mm DEPTH OF TOPSOIL.

NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY

DENSITY AND SHALL BE PROOF ROLLED, NATIVE SUBGRADE SHALL HAVE A CROSS-FALL OF

- 3% AND THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT AND IS SUBJECT TO APPROVAL BY THE TOWN ENGINEER.
- 4. 150mm DIAMETER PERFORATED, FILTER CLOTH WRAPPED PLASTIC CORRUGATED SUB-DRAINS WILL BE REQUIRED TO RUN CONTINUOUS ALONG BOTH SIDES OF ALL ROADS WITH CURB AND GUTTER.
- 5. CONCRETE CURB AND GUTTER CONFORMING TO OPSD 600.040 OR 600.070 (TWO STAGE) SHALL BE USED. CONCRETE STRENGTH IS TO BE A MINIMUM OF 32MPa AT 28 DAYS WITH  $7\% \pm 1.5\%$  AIR ENTRAINMENT.
- 6. DRIVEWAY DEPRESSIONS SHALL BE FORMED IN THE CURB AS PER OPSD 351.010.
- 7. SIDEWALK CONSTRUCTION SHALL COMPLY WITH OPSD M310.010 (MODIFIED) AND SHALL BE CONSTRUCTED ON 100mm OF 19mm CRUSHER RUN LIMESTONE COMPACTED FOUNDATION. CONCRETE STRENGTH IS TO BE A MINIMUM OF 32MPa AT 28 DAYS WITH 7% ± 1.5% AIR ENTRAINMENT. SIDEWALK AT RESIDENTIAL DRIVEWAYS TO BE 150mm THICK, AND AT INDUSTRIAL/COMMERCIAL/INSTITUTIONAL/MULTIPLE RESIDENTIAL BLOCK DRIVEWAYS SHALL BE 200mm THICK
- 8. PROVIDE FROST TAPERS FOR ROAD CROSSING CULVERTS AS PER OPSD 803.030.
- 9. RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED WITH A MINIMUM OF 150mm GRANULAR 'A', AND BE PAVED WITH A MINIMUM OF 50mm OF HL8 BASE AND 25mm HL3A TOP ASPHALT FROM STREET TO GARAGE/DWELLING, OR AS APPROVED BY THE TOWN.
- 10. ALL ACCESS DRIVEWAYS SHALL BE LOCATED A MINIMUM OF 1.2m FROM LIGHT POLES, HYDRO TRANSFORMERS, CATCHBASINS, HYDRANTS, WATERMAIN VALVES, BELL MANHOLES, BELL AND CABLE TV JUNCTION BOXES, UTILITY VAULTS, WATER SERVICE VALVE BOXES, SIDE LOT LINES AND OTHER DRIVEWAYS. WHERE FRONTAGE LIMITATIONS INTERFERE WITH STANDARD LOCATIONS, SITE SPECIFIC SOLUTIONS SHALL BE DETAILED IN THE PLAN AND PROFILE AND LOT GRADING PLANS.
- 11. MINIMUM SLOPES ON DRIVEWAYS SHALL BE 1.0% AND MAXIMUM SLOPES SHALL BE 6.0%.
- 12. ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE TOWN PUBLIC WORKS DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY WORK ON ANY ROAD THAT IS EXTERNAL TO THE PLAN. A MINIMUM 48 HOUR NOTICE IS REQUIRED.

### <u>GENERAL NOTES — STORM SEWERS</u>

AND APPROVED BY THE TOWN

PLACEMENT OF TOP ASPHALT.

- 1. STORM SEWER TO BE LOCATED TYPICALLY 1.5m TO THE WEST OR SOUTH OF CENTRELINE OF THE ROAD.
- PIPE SHALL CONFORM TO THE REQUIREMENTS SHOWN BELOW:

   a. NON-REINFORCED CONCRETE PIPE, CSA STANDARD A257.1 CLASS 1,2,3.
   b. REINFORCED CONCRETE PIPE, CSA STANDARD A257,2 STRENGTH CLASS 50-D, 65-D, 100-D AND 140-D.
   c. PVC PIPE, CSA STANDARD B182.1 AND B182.2 (DR35).
- 3. ALL STORM SEWERS OVER 450mm DIAMETER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE.
- 4. THE MINIMUM COVER OVER STORM SEWERS SHALL BE 1.5m. THE MAXIMUM DEPTH TO THE OBVERT OF STORM SEWERS WITH DIRECT SERVICE CONNECTIONS SHALL BE 6.0m. WHERE DEEPER SEWERS ARE REQUIRED, LOCAL SEWERS SHALL BE CONSTRUCTED TO PROVIDE FOR DIRECT SERVICE CONNECTIONS.
- 5. SEWERS SHALL BE CONSTRUCTED WITH 19mm CRUSHER RUN LIMESTONE BEDDING AS PER OPSD 802.010, AND 802.030, UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT
- 6. TRENCH BACKFILL APPROVED BY THE GEOTECHNICAL ENGINEER SHALL BE PLACED IN 200mm
- LIFTS AND COMPACTED TO 95% SPMDD.

  7. ALL STORM SEWER MANHOLES TO BE ACCORDING TO TOWN STANDARDS AND BE BENCHED TO OBVERT IN ACCORDANCE WITH OPSD 701.021.
- 8. DROP STRUCTURES SHALL CONFORM WITH OPSD 1003.010 AND 1003.020.
- 9. MANHOLE TOPS ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE. FRAME AND COVER TO BE PER OPSD M401.010, TYPE 'B'. GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE. MODULAR ADJUSTMENT RINGS ARE TO BE USED TO ADJUST THE MANHOLE TO FINAL GRADE.
- 10. CATCHBASINS MUST BE OF THE PRECAST TYPE AS SHOWN ON THE OPSD DRAWINGS 705.010 OR 705.020. DOUBLE CATCHBASINS ARE REQUIRED IN VALLEYS.
- 11. SINGLE CATCHBASIN LEADS SHALL BE PVC DR35 PIPE WITH MINIMUM SLOPE OF 1% AND MINIMUM SIZES AS FOLLOWS:

  a. SINGLE CATCHBASIN 250mm DIAMETER
  b. DOUBLE CATCHBASIN 300mm DIAMETER
- c. REAR LOT CATCHBASIN 250mm DIAMETER

  12. THE FRAME AND GRATE FOR CATCHBASINS SHALL BE OPSD 400.010. CATCHBASIN GRATES SHALL INITIALLY BE SET TO BASE ASPHALT AND ADJUSTED TO FINAL GRADE BEFORE
- 13. REAR LOT CATCHBASIN LEADS TO BE CONCRETE ENCASED FROM THE STREET LINE TO THE CATCHBASIN, PER STANDARD DETAIL WS-401. FRAME AND GRATE TO BE OPSD 400.010.
- 14. WHERE CATCHBASINS ARE CONNECTED DIRECTLY TO SEWERS, PRE-MANUFACTURED TEES SHALL BE USED.
- 15. PARTIAL BULKHEADS ARE REQUIRED AT MANHOLE CONNECTIONS TO EXISTING SEWERS.
- 16. MANHOLE STEPS ARE TO BE SOLID, RECTANGULAR ALUMINUM PER OPSD 405.020.17. ROOF LEADERS SHALL DISCHARGE TO GRASSED AREAS ONLY USING CONCRETE SPLASH PADS.
- 18. "TRENCH PLUGS" AS SPECIFIED BY THE GEOTECHNICAL ENGINEER SHALL BE USED IN THE TRENCH AND PLACED 2 TO 3 METERS UPSTREAM FROM ANY MANHOLE WHICH IS SUSPECTED OF BEING SUSCEPTIBLE TO HIGH WATER LEVELS OF INFLOW/INFILTRATION, SUBJECT TO VERIFICATION BY GEOTECHNICAL ENGINEER.

## GENERAL NOTES - SANITARY SEWERS

- 1. SANITARY SEWERS SHALL GENERALLY BE LOCATED 1.5m NORTH OR EAST OF THE ROAD
- 2. ALL POLYVINYL CHLORIDE (PVC) MAIN LINE SANITARY SEWER PIPE SHALL HAVE WATERTIGHT JOINTS AND MEET CSA STANDARD B182.2, DR35. ALL GASKETTED FITTINGS SHALL BE PVC DR26.
- 3. SEWERS SHALL BE CONSTRUCTED WITH 19mm CRUSHER RUN LIMESTONE BEDDING AS PER OPSD 802.010, AND 802.030, UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT AND APPROVED BY THE TOWN. IN WATER BEARING SAND, IF EXTENSIVE DEWATERING IS REQUIRED, A CLASS "A" BEDDING CONSISTING OF CONCRETE MAY BE REQUIRED.
- 4. TRENCH BACKFILL APPROVED BY THE GEOTECHNICAL ENGINEER SHALL BE PLACED IN 200mm LIFTS AND COMPACTED TO 95% SPMDD.
- 5. FRAMES AND COVERS SHALL BE WATERTIGHT IN ACCORDANCE WITH O.P.S.D. 401.030, EXCEPT WHERE ALTERNATIVES ARE SPECIFICALLY APPROVED BY THE TOWN.
- 6. THE MINIMUM DEPTH OF SANITARY SEWERS FROM THE CENTERLINE OF ROAD SHALL BE 2.8m. THE MAXIMUM DEPTH TO THE OBVERT OF SANITARY SEWERS WITH DIRECT SERVICE CONNECTIONS SHALL BE 6.0m. WHERE DEEPER SANITARY SEWERS ARE REQUIRED, LOCAL SEWERS SHALL BE CONSTRUCTED TO PROVIDE FOR DIRECT SERVICE CONNECTIONS.
- 7. INSTALL SEWER DROP CONNECTIONS TO MANHOLES AS PER OPSD 1003.010 AND 1003.020.
- 8. ALL MANHOLE ADJUSTMENT RINGS SHALL BE MADE WATERTIGHT BY PLACING SEALANT BETWEEN ADJUSTMENT RINGS AND WRAPPED ON THE OUTSIDE OF THE STRUCTURE WITH AN APPROVED COMPOSITE MEMBRANE PRIOR TO BACKFILLING.
- 9. MANHOLE JOINTS AND PIPE CONNECTIONS AT MANHOLES ARE TO BE MADE WATERTIGHT WITH AN APPROVED COMPOSTE MEMBRANE WRAP, OVERLAPING JOINTS AND CONNECTIONS BY 0.3m ON THE OUTSIDE OF THE STRUCTURE PRIOR TO BACKFILLING.
- 10. "TRENCH PLUGS" AS SPECIFIED BY THE GEOTECHNICAL ENGINEER SHALL BE USED IN THE TRENCH AND BE PLACED 2 TO 3 METERS UPSTREAM FROM ANY MANHOLE WHICH IS SUSPECTED OF BEING SUSCEPTIBLE TO HIGH WATER LEVELS OF INFLOW/INFILTRATION, SUBJECT TO APPLICATION BY OFFICE INFIDATION.
- TO VERIFICATION BY GEOTECHNICAL ENGINEER.

  11. MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE, AND THEN ADJUSTED TO FINAL GRADE WHEN TOP LIFT OF ASPHALT IS PLACED. GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE. MODULAR ADJUSTMENT RINGS INCLUDING ADDITIONAL EXTERNAL COMPOSITE
- WATERPROOF MEMBRANE WRAP ARE TO BE USED TO ADJUST THE MANHOLE TO FINAL GRADE.

  12. PRECAST CONCRETE MANHOLES SHALL CONFORM TO OPSD M701.010 (MODIFIED) FOR 1200mm DIAMETER.
  - a. REINFORCED, POURED IN PLACE CONCRETE MANHOLES, ARE SUBJECT TO APPROVAL OF
  - THE TOWN ENGINEER.

    b. SAFETY PLATFORMS ARE TO BE PROVIDED FOR MANHOLES IN ACCORDANCE WITH
  - PROVINCIAL REGULATIONS.

    c. ALL SANITARY MANHOLES TO HAVE BENCHING TO OBVERT PER OPSD 701.021.
- 13. MINIMUM CLEARANCES BETWEEN SERVICES SHALL BE PROVIDED IN ACCORDANCE WITH M.E.C.P. GUIDELINES. MINIMUM CLEARANCE FOR SEWERS IN THE COMMON TRENCH SHALL BE 450mm BETWEEN THE OUTSIDE OF THE BELLS.
- 14. BULKHEADS OR PLUGS ARE REQUIRED IN DOWNSTREAM MANHOLE AT OUTLET FROM DEVELOPMENT, UNTIL THE FIRST OCCUPANCY.
- 15. ALL TESTING OF THE SANITARY SYSTEM IS TO BE COMPLETED IN ACCORDANCE WITH THE "SANITARY SEWER SYSTEM INSPECTION, TESTING AND ACCEPTANCE GUIDELINE" (OCT. 2011) AS PREPARED BY THE REGION OF YORK, OR LATEST AMENDMENT THERETO, AND IN ACCORDANCE WITH THE TOWN'S DESIGN GUIDELINES.

16. MANHOLE STEPS ARE TO BE SOLID, RECTANGULAR ALUMINUM PER OPSD 405.020.

#### GENERAL NOTES - SEWER SERVICE LATERALS

- 1. SINGLE SANITARY SERVICE LATERAL PIPES SHALL BE 125mm DIAMETER PVC DR28, GREEN IN COLOR. THE SERVICE SHALL BE EXTENDED FROM THE TEST FITTING 1.5m INTO THE LOT WITH A 100mm DIAMETER PVC DR28 SERVICE PIPE.
- 2. DOUBLE STORM SERVICE LATERAL PIPES SHALL BE 150mm DIAMETER PVC DR 28, WHITE IN COLOR. SINGLE SERVICE PIPES SHALL BE EXTENDED FROM THE WYE TEST FITTING 1.5m INTO EACH LOT WITH 125mm DIAMETER PVC DR28 SERVICE PIPES.
- 3. ELEVATION OF SERVICE CONNECTIONS AT THE STREETLINE IS TO BE 2.5m MINIMUM BELOW FINISHED GRADE. EACH SERVICE PIPE EXTENDED 1.5m INTO EACH LOT SHALL BE TERMINATED WITH A WATERTIGHT PLUG.

50mm x 100mm WOOD MARKER PAINTED GREEN FOR SANITARY AND RED FOR STORM.

- WITH A WATERTIGHT PLUG.

  4. THE LOCATION OF THE WATERTIGHT PLUG FOR EACH SERVICE PIPE SHALL BE STAKED WITH A
- 5. LATERALS SELECTED BY THE TOWN ARE TO BE INSPECTED BY CCTV FROM THE MAINLINE TO THE DWELLING AND A REPORT SUBMITTED TO THE TOWN PRIOR TO OCCUPANCY OF THE DWELLING PER SECTION C6.03 OF THE DESIGN GUIDELINES.
- 6. TEST FITTINGS AT STREET-LINE TO BE WATERTIGHT PVC FITTING.
- 7. SERVICE RISERS SHALL BE PROVIDED WHERE THE DEPTH TO THE SEWER OBVERT EXCEEDS 4.5m. THE RISER SHALL RAISE THE SERVICE PIPE TO A DEPTH OF 3m BELOW CENTERLINE OF ROAD. THE MAXIMUM HEIGHT OF A SERVICE RISER SHALL BE 3m, UNLESS SPECIFICALLY APPROVED BY THE TOWN.
- 8. SERVICE RISERS SHALL CONSIST OF AN ELBOW CONNECTED TO THE MAIN SEWER TEE, OFFSET FROM THE MAIN SEWER SUCH THAT THE RISER AND ELBOW ARE SUPPORTED BY THE MAIN SEWER BEDDING. A CONTROLLED SETTLEMENT JOINT, APPROVED BY THE TOWN, IS REQUIRED ABOVE THE ELBOW CONNECTION TO THE MAIN SEWER TEE. SEE STANDARD DRAWING WS-301.
- 9. SERVICE CONNECTION BEDDING SHALL BE 19mm CRUSHER RUN LIMESTONE AND INSTALLED PER

# GENERAL NOTES - WATERMAINS

MODIFIED OPSD M1006.010.

- WATERMAIN SHALL BE LOCATED AS SHOWN ON THE STANDARD TOWN ROADWAY CROSS SECTIONS. THIS LOCATION SHALL NORMALLY BE ON THE NORTH AND EAST SIDE OF THE STREET. WATERMAIN SHALL BE OFFSET FROM STREET LINE AS PER STANDARD ROAD CROSS
- 2. ALL WATERMAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSS 441. PIPE MATERIAL SHALL BE ANNIMUM CLASS 150 PVC (DR18) IN ACCORDANCE WITH AWWA C900 STANDARDS,
- 3. WATERMAIN BEDDING SHALL BE GRANULAR A OR AN APPROVED EQUIVALENT AS PER OPSD 802.010 AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 4. A MINIMUM CLEARANCE BETWEEN THE WATERMAIN AND ALL UTILITIES MUST BE KEPT, WHILE
- 5. WATERMAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 1.8m BELOW THE CENTERLINE OF
- 6. TEMPORARY DEAD-ENDS OF WATERMAINS SHALL BE EQUIPPED WITH A TEMPORARY FIRE

STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES.

- 7. PVC WATERMAIN SHALL INCLUDE TRACER WIRE. A TRACER WIRE SHALL BE PROVIDED ALONG THE TOP OF ALL WATERMAINS. THE WIRE IS TO BE SECURED AT EVERY FITTING AND VALVE AND AT INTERVALS NOT TO EXCEED 3m. ALL TRACING WIRES SHALL BE 12 GAUGE, STRANDED COPPER WIRE WITH OUTER PLASTIC COATING.
- 8. CONCRETE THRUST BLOCKS ARE NOT PERMITTED. MECHANICAL JOINT RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, HORIZONTAL AND VERTICAL BENDS, HYDRANTS, END OF MAINS AND VALVES, AND IN AREAS OF ENGINEERED FILL INCLUDING SEWER TRENCH BACKFILL.

  MECHANICAL JOINT RESTRAINTS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ARE TO INCLUDE CATHODIC PROTECTION. HYDRANT TEES TO BE ANCHOR STYLE.
- 9. EACH FITTING, WATER SERVICE CONNECTION, HYDRANT AND VALVE SHALL BE INSTALLED WITH A 5kg ZINC ANODE OR AN APPROVED EQUIVALENT FOR CATHODIC PROTECTION. PROPOSED ALTERNATIVE CATHODIC PROTECTION MEASURES SHALL BE RECOMMENDED BY A GEOTECHNICAL ENGINEER AND ARE SUBJECT TO APPROVAL OF THE TOWN.
- 10. CAST IRON MECHANICAL JOINT FITTINGS MEETING AWWA SPECIFICATIONS C-110 AND C.S.A. B137.2 SHALL BE USED ON PVC WATERMAIN 150mm TO 300mm IN DIAMETER.
- 11. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH VALVE BOX UNLESS OTHERWISE APPROVED BY THE TOWN. VALVES SHALL HAVE A NON-RISING STEM AND A 50mm SQUARE OPERATING NUT, OPENING COUNTER-CLOCKWISE.
- 12. VALVES IN EXCESS OF 1.8m IN DEPTH SHALL REQUIRE A VALVE STEM EXTENSION.
- 13. VALVE CHAMBERS PER TOWN STANDARD OPSD M1101.010 RATHER THAN BOXES SHALL BE PROVIDED ON WATERMAINS 300mm DIAMETER AND ABOVE.
- 14. HYDRANT FLANGE ELEVATIONS SHALL BE SET AT A GRADE THAT WILL GIVE A FLANGE ELEVATION OF 75mm TO 100mm ABOVE THE FINAL GRADE.
- 15. HYDRANTS SHALL BE LOCATED A MINIMUM OF 1.2m FROM THE EDGE OF DRIVEWAYS, OR HOUSE SERVICE LOCATION. OTHER ABOVE GROUND UTILITIES SUCH AS LIGHT STANDARDS, TRANSFORMER OR STREET SIGNS SHALL NOT BE LOCATED ANY CLOSER THAN 3m TO A HYDRANT. HYDRANTS SHALL BE LOCATED IN CLOSE PROXIMITY TO A LOT LINE AND OFFSET FROM THE STREET LINE IN ACCORDANCE WITH THE STANDARD CROSS—SECTION.
- 16. HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH TOWN MODIFIED OPSD M1105.010, WITH STORZ TYPE PUMPER NOZZLE AND PAINTED RED. ALL HYDRANT DRAIN HOLES ARE TO BE PLUGGED UNLESS SPECIFICALLY DIRECTED BY THE TOWN. LOCK—OUT DEVICES ARE REQUIRED ON ALL HYDRANTS. THE FOLLOWING IS A LIST OF HYDRANTS APPROVED BY THE TOWN OF WHITCHURCH—STOUFFVILLE:
- a. DARLING B-50-B-24 b. CENTURY c. MCAVITY M67

WATERMAIN AND ANY SEWER.

OF THE MANUFACTURER.

- 17. A MINIMUM HORIZONTAL SEPARATION OF 2.5m SHALL BE MAINTAINED BETWEEN THE
- 18. PIPE DEFLECTION SHOULD BE USED WHEREVER POSSIBLE TO MINIMIZE THE USE OF BENDS.
  WHEREVER IT IS NECESSARY TO DEFLECT FROM A STRAIGHT LINE, EITHER IN THE VERTICAL OR
  HORIZONTAL PLANE, THE AMOUNT OF DEFLECTION SHALL NOT EXCEED THE RECOMMENDATIONS
- 19. THE MAXIMUM SIZE OF CONNECTION THAT CAN BE TAPPED INTO A 150mm DIAMETER WATERMAIN IS 50mm IN DIAMETER. WATER SERVICE CONNECTIONS 75mm IN DIAMETER AND LARGER SHALL BE MADE BY INSTALLING A TEE ON THE SUPPLY MAIN.
- 20. THE TOWN ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY PRESSURE AND LEAKAGE TESTING, CHLORINATION OR FLUSHING WHICH MUST BE CARRIED OUT IN ACCORDANCE WITH TOWN SPECIFICATIONS AND OPSS 441.

#### GENERAL NOTES - WATER SERVICES

- 1. RESIDENTIAL LOTS SHALL HAVE A SINGLE 25mm MINIMUM DIAMETER, TYPE K COPPER WATER SERVICE FROM THE WATERMAIN TO THE CURB STOP. FOR DEVELOPMENTS WERE THE ONTARIO BUILDING CODE REQUIRES A GREATER DIAMETER CONNECTION THE SERVICE SHALL BE INCREASED FROM THE WATERMAIN TO THE BUILDING INCLUDING THE CURB STOP ASSEMBLY AS DIRECTED BY THE TOWN.
- 2. SERVICES SHALL BE INSTALLED ACCORDING TO OPSD 1104.010 AND 1104.020.
- 3. WATER SERVICES SHALL BE LOCATED 3.0m FROM THE LOT LINE OPPOSITE THE DRIVEWAY WITH A CURB STOP AT THE STREET LINE AND THE SERVICE SHALL BE EXTENDED 1.5m INTO THE LOT. THE LOCATION OF THE EXTENDED SERVICE INTO THE LOT IS TO BE STAKED WITH 50mm x 100mm WOOD MARKER PAINTED BLUE.
- 4. THE MINIMUM DEPTH OF COVER IS 1.8m.
- 5. WATER SERVICES SHALL BE INSTALLED WITH 1.2m CLEARANCE TO DRIVEWAYS.
- 6. NO COUPLINGS WILL BE ALLOWED BETWEEN THE CURB STOP AND MAIN STOP.
- 7. STAINLESS STEEL SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO THE PVC
- 8. A REMOTE READOUT WATER METER WILL BE REQUIRED ON EACH RESIDENCE. MAKE AND MODEL IS TO BE PER TOWN REQUIREMENTS COMPLETE WITH A REMOTE READER LOCATED ON AN OUTSIDE WALL, ADJACENT TO THE HYDRO METER.

#### GENERAL NOTES - LOT GRADING

SWALE SHALL BE SITED PER LOT

- 1. LOTS ARE TO BE RESTORED AND STABILIZED WITH A MINIMUM DEPTH OF 150mm AND A MAXIMUM DEPTH OF 250mm OF TOPSOIL AND No. 1 NURSERY SOD.
- 2. DRAINAGE SWALES ON RESIDENTIAL LOTS ARE TO OFFSET 0.3m FROM THE PROPERTY LINE. SIDEYARD SWALES ARE TO BE LOCATED ON THE LOW SIDE OF THE LOT AND ONLY ONE
- 3. ALL ROOF LEADERS AND DOWNSPOUTS ARE TO BE DIRECTED TO GRASSED AREAS AND SHALL NOT DISCHARGE TO PAVED OR CONCRETE SURFACES.

#### GENERAL NOTES FOR CONSTRUCTION AND INSPECTION

- 1.READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND LANDSCAPING PLANS.
- 2.ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- 3.ALL WORK, MATERIALS AND CONSTRUCTION METHODS TO CONFORM WITH THE LATEST STANDARDS, SPECIFICATIONS, POLICIES, REGULATIONS, GUIDELINES AND LAWS FOR THE TOWN, THE ONTARIO BUILDING CODE (OBC), MINISTRY OF THE ENVIRONMENT (MOE), ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS (OPSD AND OPSS), THE ENVIRONMENTAL PROTECTION ACT AND THE WATER RESOURCES ACT. THE MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
- 4.THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS COMPILED FROM LOCATES INFORMATION AND RECORD DRAWINGS FROM THE TOWN. THE INFORMATION IS SHOWN FOR GENERAL INFORMATION ONLY AND THE ACCURACY OR COMPLETENESS OF THE PROVIDED INFORMATION HAS NOT BEEN CONFIRMED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
- 5.THIS PLAN SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' PLANS. ANY DISCREPANCIES SHALL BE CLARIFIED PRIOR TO CONSTRUCTION. INFORMATION RELATED TO DIMENSIONS FOR PRIVATE ROADS, PARKING, CURBING, BUILDING LOCATION AND SETBACKS SHALL BE TAKEN FROM THE SITE PLAN PREPARED BY THE ARCHITECT.
- 6.ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES FOUND PRIOR TO OR DURING CONSTRUCTION SHALL BE CLARIFIED WITH THE ENGINEER.

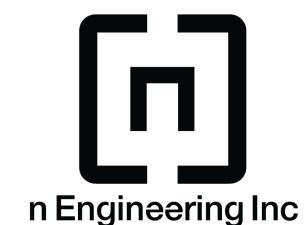
# INSPECTIONS:

PER APPROVED PLANS BY THE TOWN.

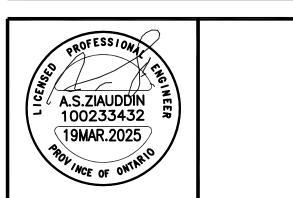
- 7.ALL WORK IN THE TOWN'S RIGHT OF WAY AND EASEMENTS IS TO BE INSPECTED BY THE TOWN PRIOR TO BACKFILLING. ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE INSPECTED BY THE TOWN AS PER THE SITE PLAN AGREEMENT.
- 8.ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH MINIMUM 200MM TOPSOIL AND NO. 1
- 9.THE CONTRACTOR AGREES NOT TO MAKE A MATERIAL CHANGE OR CAUSE A MATERIAL CHANGE TO BE MADE TO A PLAN, SPECIFICATION, DOCUMENT OR OTHER INFORMATION, ON THE BASIS OF WHICH THIS DRAWING WAS APPROVED BY THE TOWN, WITHOUT NOTIFYING, FILING DETAILS WITH AND OBTAINING WRITTEN AUTHORIZATION OF THE MUNICIPAL AND PROJECT ENGINEER.
- 10. SITE SPECIFIC DETAILED DESIGN AND PLAN PREPARED BY TEAM OF EXPERT ARCHITECTS AND ENGINEERS FROM N ARCHITECTURE INC. BASED ON THROUGH CONSULTATION WITH ALL AUTHORITIES OF JURISDICTION. IT IS MANDATORY THE PROJECT CONSTRUCTION BE SUPERVISED BY N ARCHITECTURE INC TO ENSURE THE ACCURACY, QUALITY OF EXECUTION OF THE PLAN AND ENSURE THE COMPLETION OF THE PROJECT
- WORK AND SANITARY SEWER WORK INSIDE THE BOUNDARY OF THE SITE IS TO BE INSPECTED BY N ENGINEERING INC. PRIOR BACKFILLING.

12.ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE INSPECTED BY N ENGINEERING AS

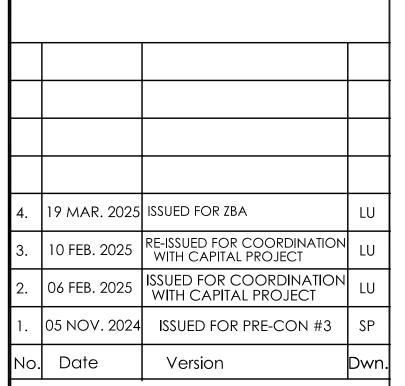
11.THE DEVELOPER/OWNER AGREES ALL STORMWATER MANAGEMENT WORK, WATER SERVICING



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PROJECT:

27 WINONA DR,
WHITCHURCH
STOUFFVILLE, ON
PLACE OF
WORSHIP-MOSQUE

DRAWING TITLE:

PROJECT NO.:

**GENERAL NOTES** 

DRAWN BY: SJ

DATE: 26 JUNE 2024

CHECKED BY: AZ

SCALE: 1:200

22-71

C40

DRAWING NO .: