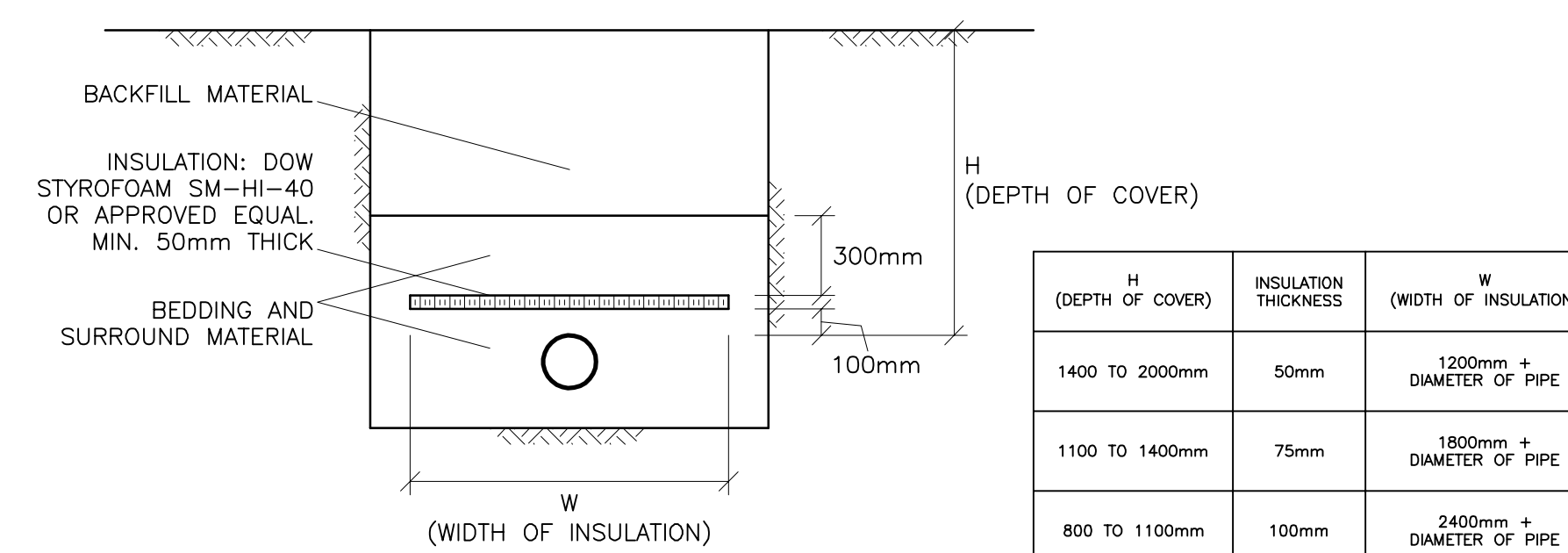


INSULATE SEWER AS INDICATED AND WHERE DEPTH
OF COVER COVER IS LESS THAN 2400mm.
PROVIDE A MINIMUM 1200mm COVER.
CENTER INSULATION OVER PIPE.
JOINTS BETWEEN SHEETS OF INSULATION SHALL BE
STAGGERED.

INSULATION OF WELL WATER LINE
SHALLOW TRENCHES
N.T.S.







INSULATE SEWER AS INDICATED AND AS PER CITY DRAWING S35
AND WHERE DEPTH OF COVER IS LESS THAN 2000mm.
CENTER INSULATION OVER PIPE.
JOINTS BETWEEN SHEETS OF INSULATION SHALL BE STAGGERED.

INSULATION OF SEWERS
IN SHALLOW TRENCHES
AS PER CITY OF OTTAWA DRAWING No. S35
N.T.S

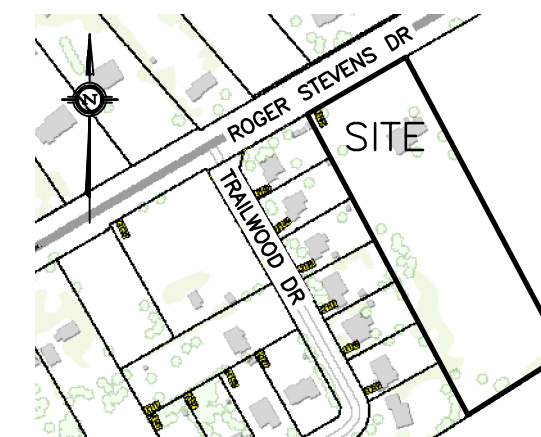
H (DEPTH OF COVER)	INSULATION THICKNESS	W (WIDTH OF INSULATION)
1800 TO 2400mm	50mm	1200mm
1500 TO 1800mm	75mm	1800mm
1200 TO 1500mm	100mm	2400mm

H (DEPTH OF COVER)	INSULATION THICKNESS	W (WIDTH OF INSULATION)
1400 TO 2000mm	50mm	1200mm + DIAMETER OF PIPE
1100 TO 1400mm	75mm	1800mm + DIAMETER OF PIPE
800 TO 1100mm	100mm	2400mm + DIAMETER OF PIPE
500 TO 800mm	125mm	3000mm + DIAMETER OF PIPE

LEGEND

FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
— . . . —	PROPERTY LINE
CB 	CATCH BASIN
MH 	STORM MANHOLE
CB/MH 	CATCH BASIN/MANHOLE
MH 	SANITARY MANHOLE
<u>SAN</u>	SANITARY SEWER
<u>ST</u>	STORM SEWER
<u>WL</u>	WELL WATER LINE
INV	INVERT OF PIPE
<u>RDO</u>	ROOF DRAIN OUTLET
	EXISTING GRADE ELEVATION

KEY PLAN



8	JUN 12-25	RE-ISSUED FOR APPROVAL & BUILDING PERMIT FOR PRIEST RESIDENCE
7	APR 10-25	RE-ISSUED FOR APPROVAL
6	OCT 25-24	ISSUED FOR APPROVAL
5	OCT 18-24	ISSUED FOR COORDINATION
4	OCT 15-24	ISSUED FOR COORDINATION
3	SEP 20-24	ISSUED FOR COORDINATION
2	AUG 6-24	ISSUED FOR COORDINATION
1	OCT 23-24	ISSUED FOR APPROVAL
No.	DATE	REVISION

D. B. GRAY ENGINEERING INC

Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain

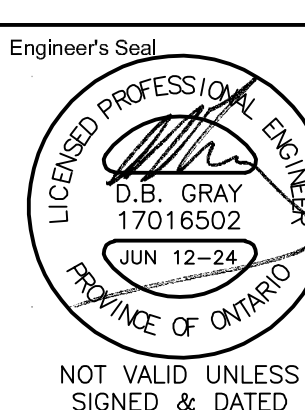
700 Long Point Circle
Ottawa, Ontario d.gray@dbgrayengineering.com

Project

PROPOSED HINDU TEMPLE
2104 ROGER STEVENS DR
NORTH GOWER, ONTARIO

Drawing Title

SITE SERVICING PLAN



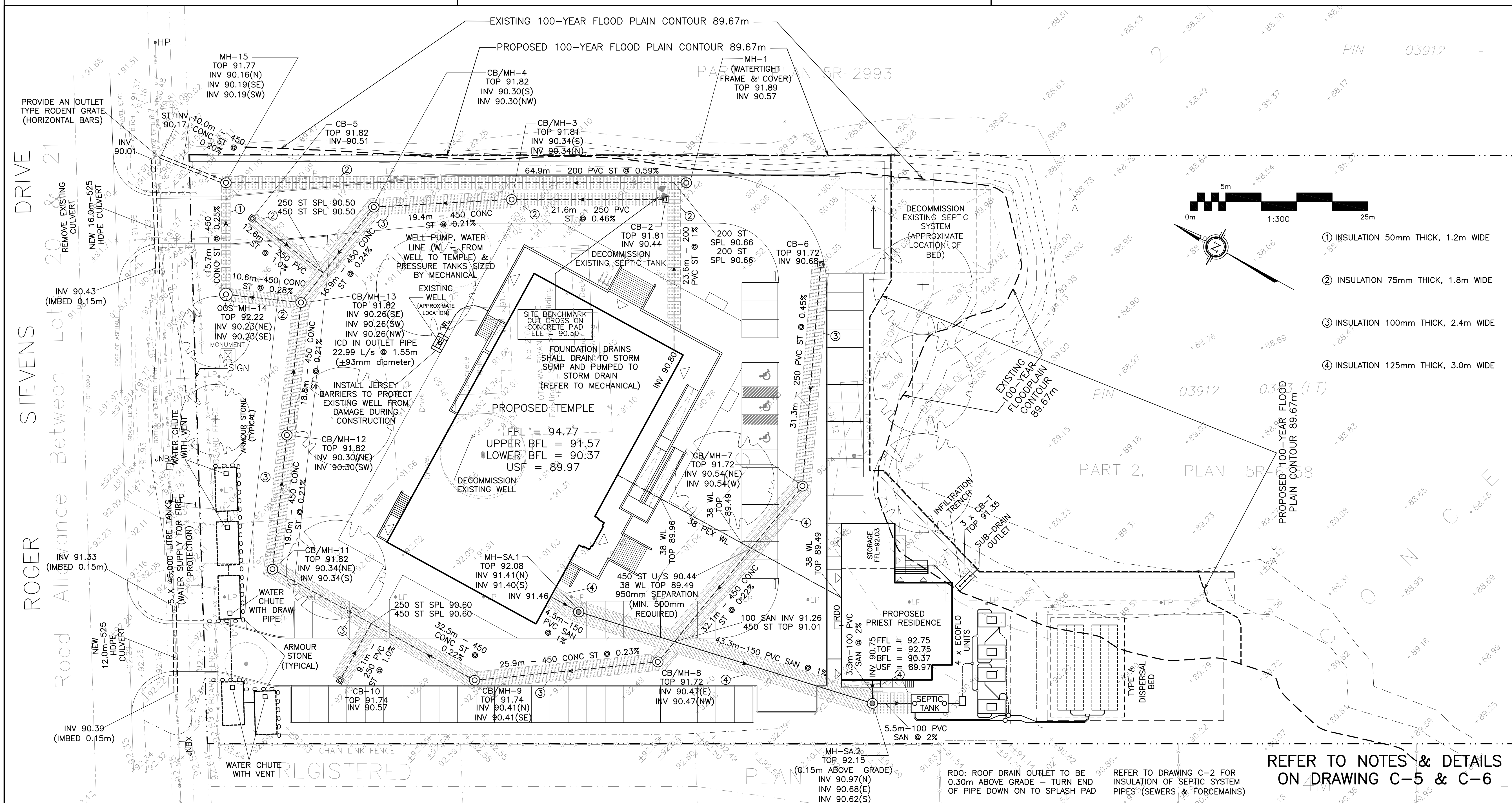
Drawn	D.
H. Scale	1:3
V. Scale	
Date	JUN 11-
Job No.	200

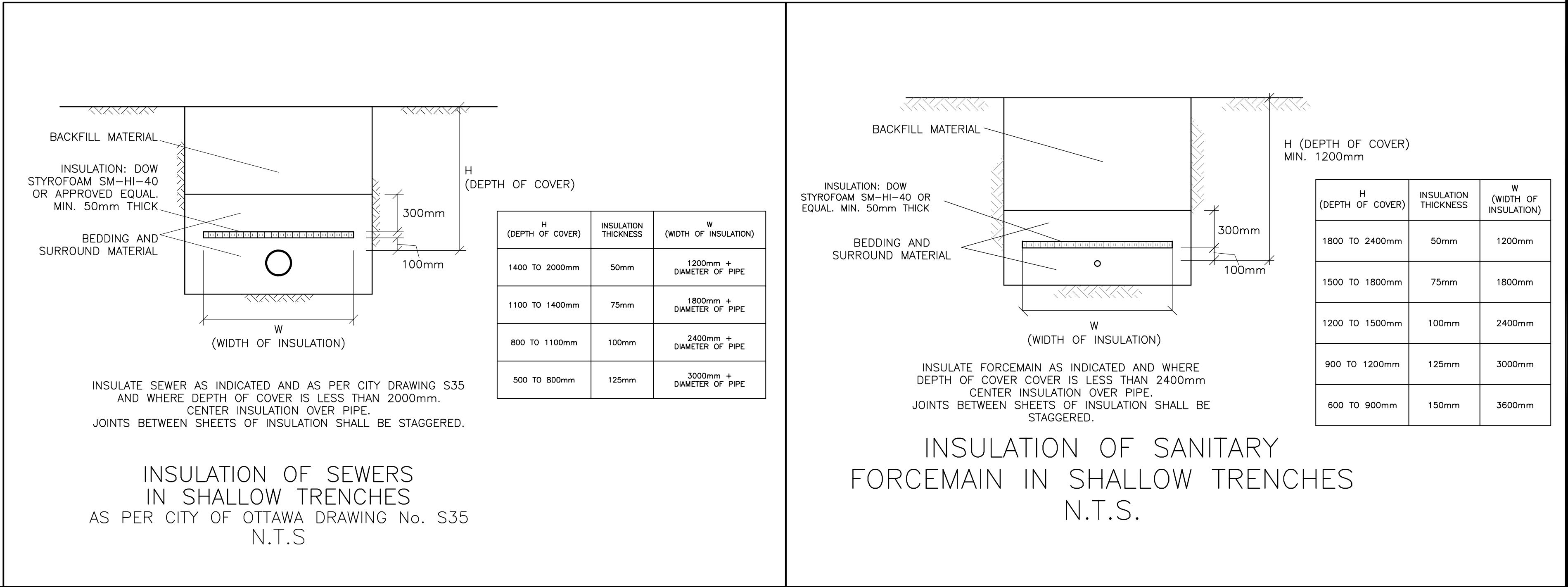
Drawing No.
C-1
of 7

REFER TO NOTES & DETAILS
ON DRAWING C-5 & C-6

RDO: ROOF DRAIN OUTLET TO BE 0.30m ABOVE GRADE - TURN END OF PIPE DOWN ON TO SPLASH PAD REFER TO DRAWING C-2 FOR INSULATION OF SEPTIC SYSTEM PIPES (SEWERS & FORCEMAINS)

MH-SA.2
TOP 92.15
5m ABOVE GRADE)
INV 90.97(N)
INV 90.68(E)
INV 90.62(S)





LEGEND

FFL FIRST FLOOR ELEVATION
TOF TOP OF FOUNDATION
BFL BASEMENT FLOOR ELEVATION
USF UNDERSIDE OF FOOTING
--- PROPERTY LINE
CB CATCH BASIN
MH STORM MANHOLE
CB/MH CATCH BASIN/MANHOLE
MH SANITARY MANHOLE
SAN SANITARY SEWER
ST STORM SEWER
WL WELL WATER LINE
INV INVERT OF PIPE
RDO ROOF DRAIN OUTLET
+99.99 EXISTING GRADE ELEVATION

KEY PLAN

ROGER STEVENS DR
TRAILWOOD DR
SITE

8	JUN 12-25	RE-ISSUED FOR APPROVAL & BUILDING PERMIT FOR PRIEST RESIDENCE
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2	AUG 6-24	ISSUED FOR COORDINATION
1	JUL 11-24	PRELIMINARY
No.	DATE	REVISION

D. B. GRAY ENGINEERING INC.
Stormwater Management - Grading & Drainage - Sewer & Sanitary Sewers - Watermain
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Ottawa, Ontario
613-425-8044
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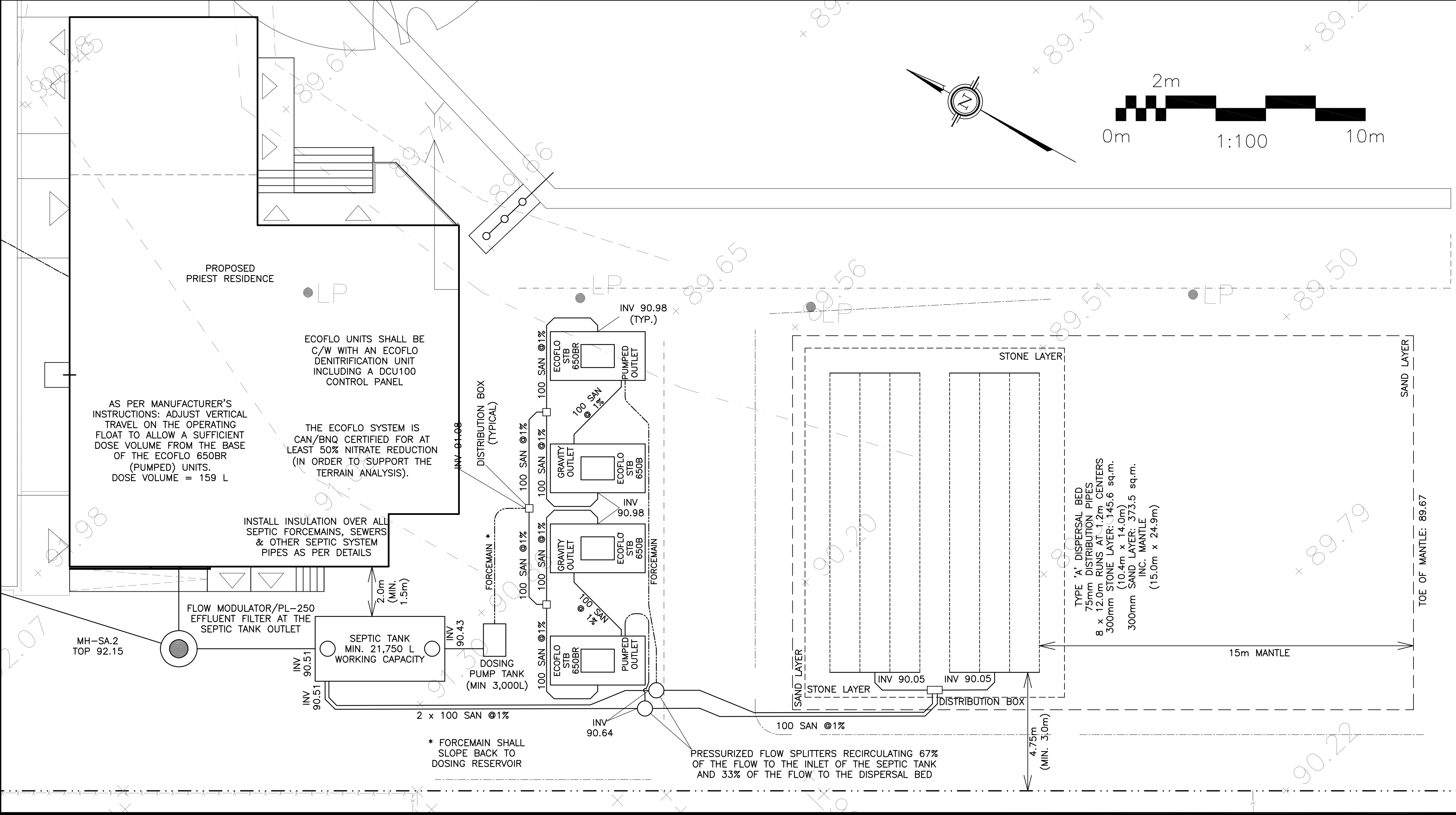
Project
PROPOSED HINDU TEMPLE
2104 ROGER STEVENS DR
NORTH GOWER, ONTARIO

Drawing Title
SEPTIC SYSTEM

Engineer's Seal
D.B. GRAY
17016502
JUN 12-24
PROVINCE OF ONTARIO
NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.
H. Scale 1:300
V. Scale
Date JUN 11-24
Job No. 20029

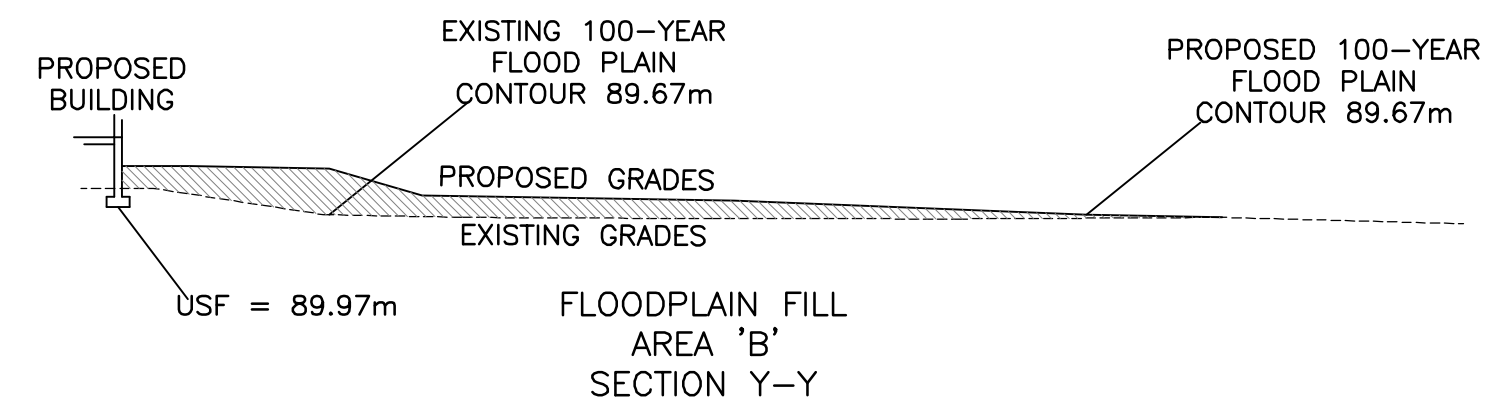
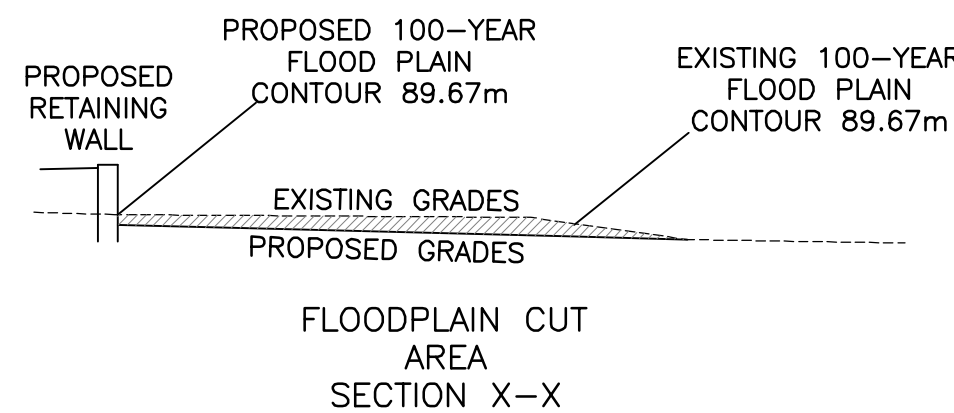
Drawing No.
C-2
of 7



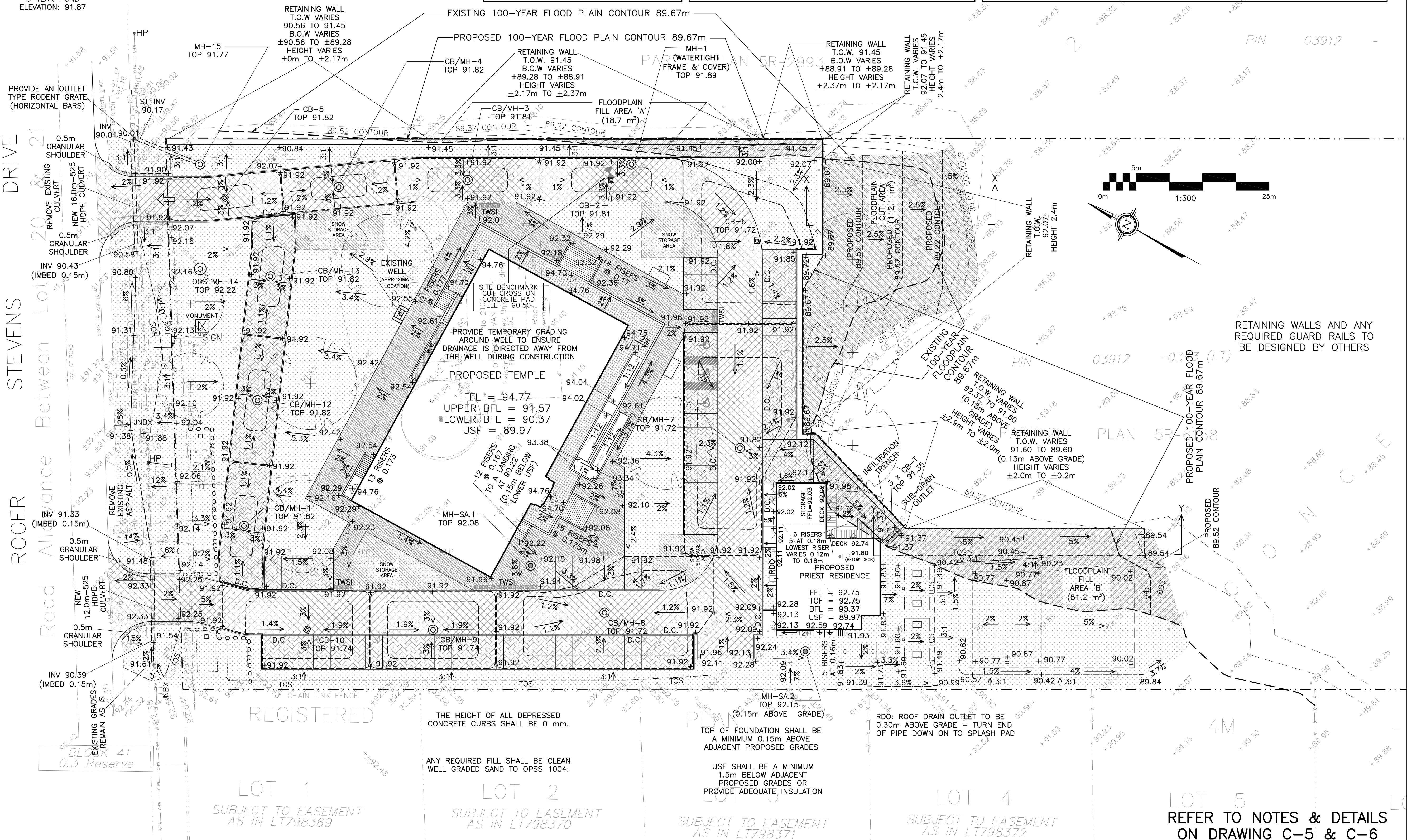
FLOOD PLAIN FILL AREA 'A'												FLOOD PLAIN FILL AREA 'B'												FLOOD PLAIN CUT AREA												TOTAL					
CONTOUR INTERVAL (m)	PRE-DEVELOPMENT CONDITIONS					POST DEVELOPMENT CONDITIONS					CHANGE IN STORAGE VOLUME		CONTOUR INTERVAL (m)	PRE-DEVELOPMENT CONDITIONS					POST DEVELOPMENT CONDITIONS					CHANGE IN STORAGE VOLUME		CONTOUR INTERVAL (m)	PRE-DEVELOPMENT CONDITIONS					POST DEVELOPMENT CONDITIONS					CHANGE IN STORAGE VOLUME		CONTOUR INTERVAL (m)	CHANGE IN STORAGE VOLUME	
	TOP AREA (sq.m)	BOTTOM AREA (sq.m)	DEPTH (m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)	TOP AREA (sq.m)	BOTTOM AREA (sq.m)	DEPTH (m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)		TOP AREA (sq.m)	BOTTOM AREA (sq.m)	DEPTH (m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)	TOP AREA (sq.m)	BOTTOM AREA (sq.m)	DEPTH (m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)		TOP AREA (sq.m)	BOTTOM AREA (sq.m)	DEPTH (m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)	TOP AREA (sq.m)	BOTTOM AREA (sq.m)	DEPTH (m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)	VOLUME (cu.m)	CUMULATIVE VOLUME (cu.m)			
89.07 – 89.22	6	0	0.15	0.3	0.3	0	0	0.15	0	0	-0.3	-0.3	89.07 – 89.22	0	0	0.15	0	0	0	0	0.15	0	0	0	0	89.07 – 89.22	33	0	0.15	1.7	1.7	98	0	0.15	4.9	4.9	3.3	3.3	89.07 – 89.22	3.0	3.0
89.22 – 89.37	27	6	0.15	2.3	2.6	0	0	0.15	0	0	-2.3	-2.6	89.22 – 89.37	0	0	0.15	0	0	0	0	0.15	0	0	0	0	89.22 – 89.37	80	33	0.15	8.2	9.9	263	98	0.15	26.1	31.0	17.9	21.1	89.22 – 89.37	15.6	18.5
89.37 – 89.52	52	27	0.15	5.8	8.4	0	0	0.15	0	0	-5.5	-8.4	89.37 – 89.52	181	0	0.15	9.1	8.3	12	0	0.15	0.6	0.6	-8.5	-8.5	89.37 – 89.52	148	80	0.15	16.8	26.7	446	263	0.15	52.6	83.6	35.7	56.8	89.37 – 89.52	21.5	40.0
89.52 – 89.67 (100-YEAR FLOOD)	87	52	0.15	10.3	18.7	0	0	0.15	0	0	-10.3	-18.7	89.52 – 89.67 (100-YEAR FLOOD)	479	181	0.15	47.7	53.0	61	12	0.15	5.0	5.6	-42.7	-51.2	89.52 – 89.67 (100-YEAR FLOOD)	234	148	0.15	28.4	55.1	677	446	0.15	83.6	167.2	55.2	112.1	89.52 – 89.67 (100-YEAR FLOOD)	2.2	42.2

SITE BOUNDARIES AND EXISTING GRADES AND OTHER FEATURES DERIVED FROM TOPOGRAPHIC SURVEY PREPARED BY J. D. BARNES LIMITED REF NO. 22-10-102-00. AS IS STATED ON THE SURVEY PLAN: "BEARINGS ARE MTM GRID, AND DERIVED FROM GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) BY REAL TIME NETWORK (RTN) OBSERVATIONS. MTM ZONE 9, NAD 83, (CSRS) (2010.0). ELEVATIONS ARE GEODETIC AND REFERRED TO PUBLISHED CONTROL POINT 01019791716 HAVING A PUBLISHED ELEVATION OF 91.214 METRES (CGVD28-78 DATUM)."

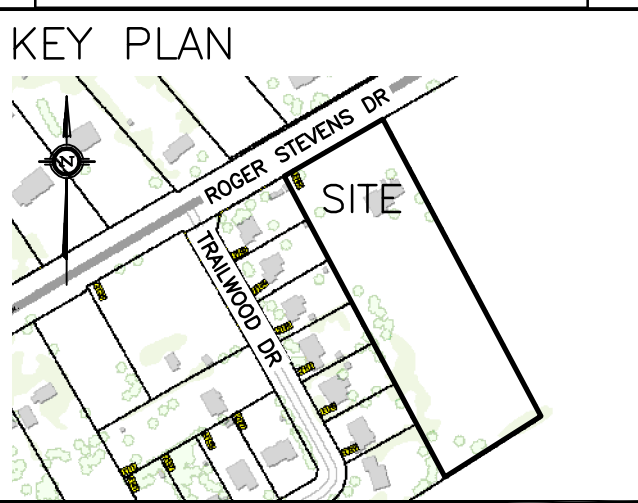
VOLUMES CALCULATED USING PRISMATOIDAL FORMULA:
 $V = D \times (A_T + A_B) + (A_T \times A_B)^{0.5} \div 3$
WHERE
V = VOLUME
D = DEPTH (CONTOUR INTERVAL)
A_T = TOP AREA
A_B = BOTTOM AREA



EMERGENCY OVERLAND SPILL ELEVATION: 91.92
100 YEAR POND ELEVATION: 91.92
5 YEAR POND ELEVATION: 91.87



LEGEND	
FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
RDO	ROOF DRAIN OUTLET
+99.99	EXISTING GRADE ELEVATION
+99.99	PROPOSED GRADE ELEVATION
→	EMERGENCY OVERLAND FLOW
2%	PROPOSED SLOPE OF GRADE
T.O.S.	TOP OF SLOPE
B.O.S.	BOTTOM OF SLOPE
150mm	BARRIER CURB
D.C.	DEPRESSED CURB
HEAVY-DUTY PAVEMENT	
PERMEABLE PAVERS	
CONCRETE PAVEMENT	
TERRACE	
GRASS / LANDSCAPED AREA	
SNOW STORAGE AREA	
CUT / FILL AREA	



No.	DATE	REVISION
8	JUN 12-25	RE-ISSUED FOR APPROVAL & BUILDING PERMIT FOR PRIEST RESIDENCE
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D.B. GRAY ENGINEERING INC.
Stormwater Management - Grading & Drainage - Sewer & Sanitary Sewers - Watermain
700 Long Point Circle
Ottawa, Ontario
613-425-8044
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Project
PROPOSED HINDU TEMPLE
2104 ROGER STEVENS DR
NORTH GOWER, ONTARIO

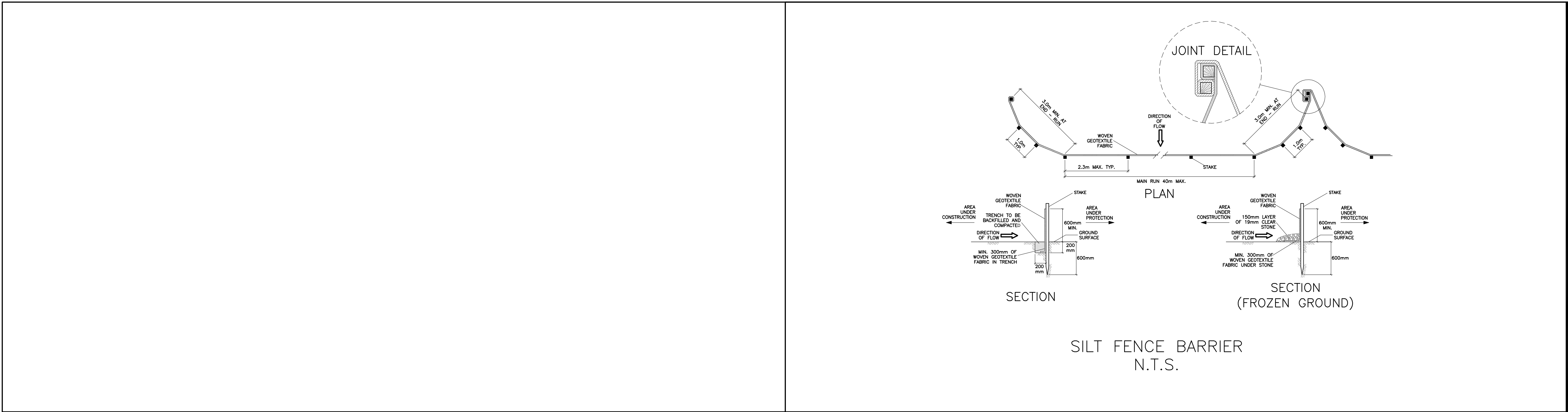
Drawing Title
GRADING PLAN

Engineer's Seal
D.B. GRAY
17016502
JUN 12-24
PROVINCE OF ONTARIO
NOT VALID UNLESS SIGNED & DATED

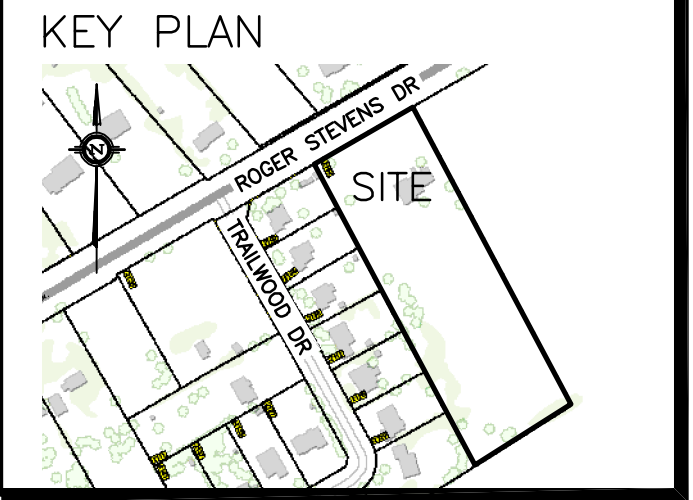
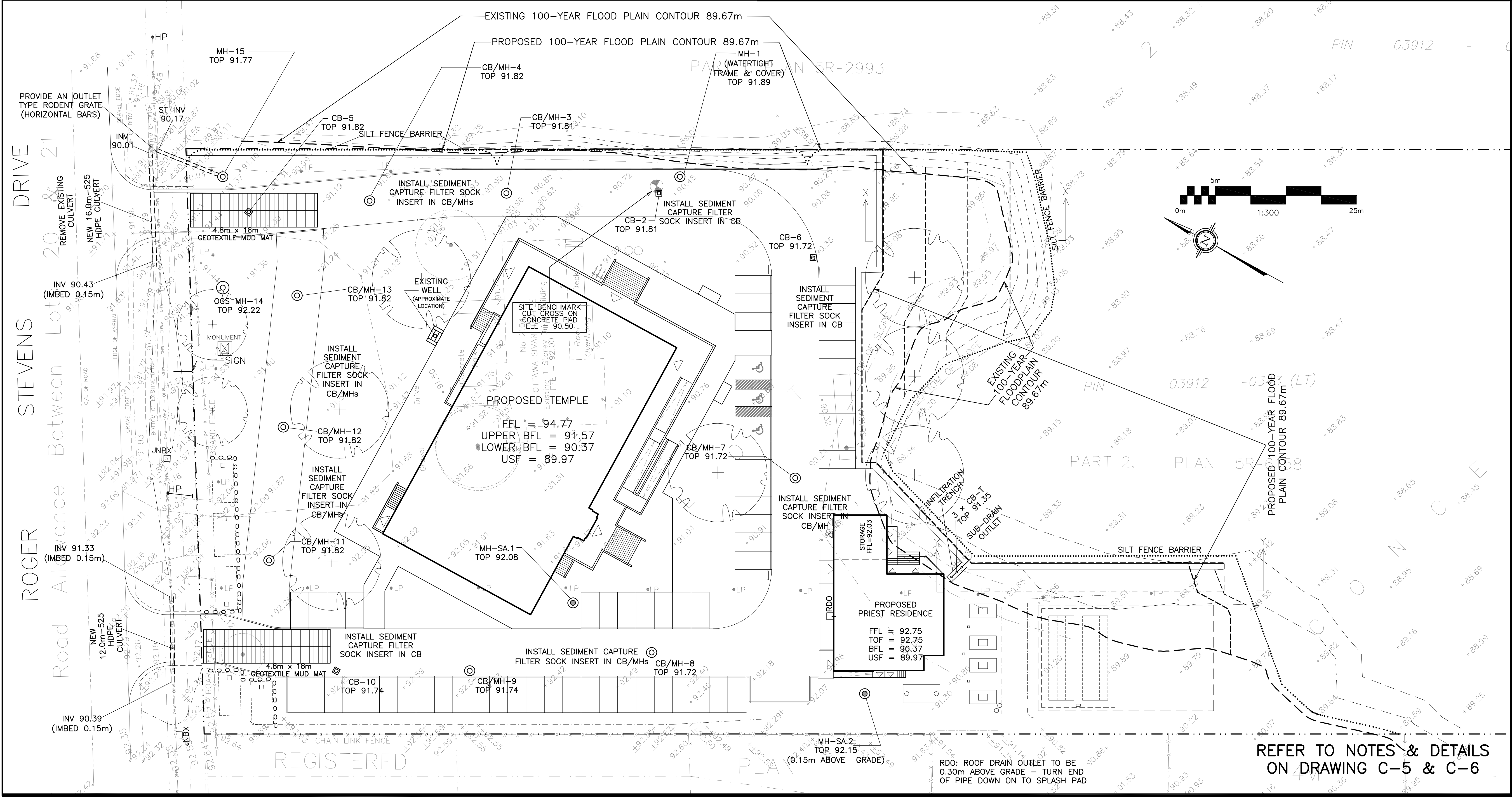
Drawn D.B.G.
H. Scale 1:300
V. Scale
Date JUL 11-24
Job No. 20029

Drawing No.
C-3
of 7

REFER TO NOTES & DETAILS ON DRAWING C-5 & C-6



LEGEND	
FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
RDO	ROOF DRAIN OUTLET
.....	SILT FENCE BARRIER



No.	DATE	REVISION
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Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain
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Ottawa, Ontario
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Project
PROPOSED HINDU TEMPLE
2104 ROGER STEVENS DR
NORTH GOWER, ONTARIO

Drawing Title
EROSION & SEDIMENT CONTROL PLAN

Engineer's Seal

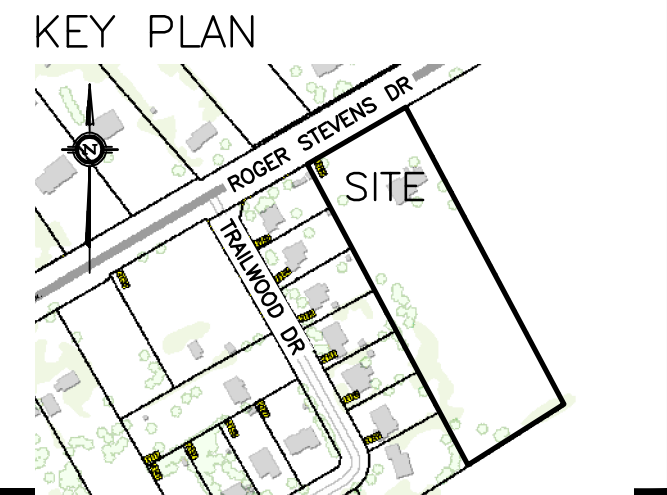
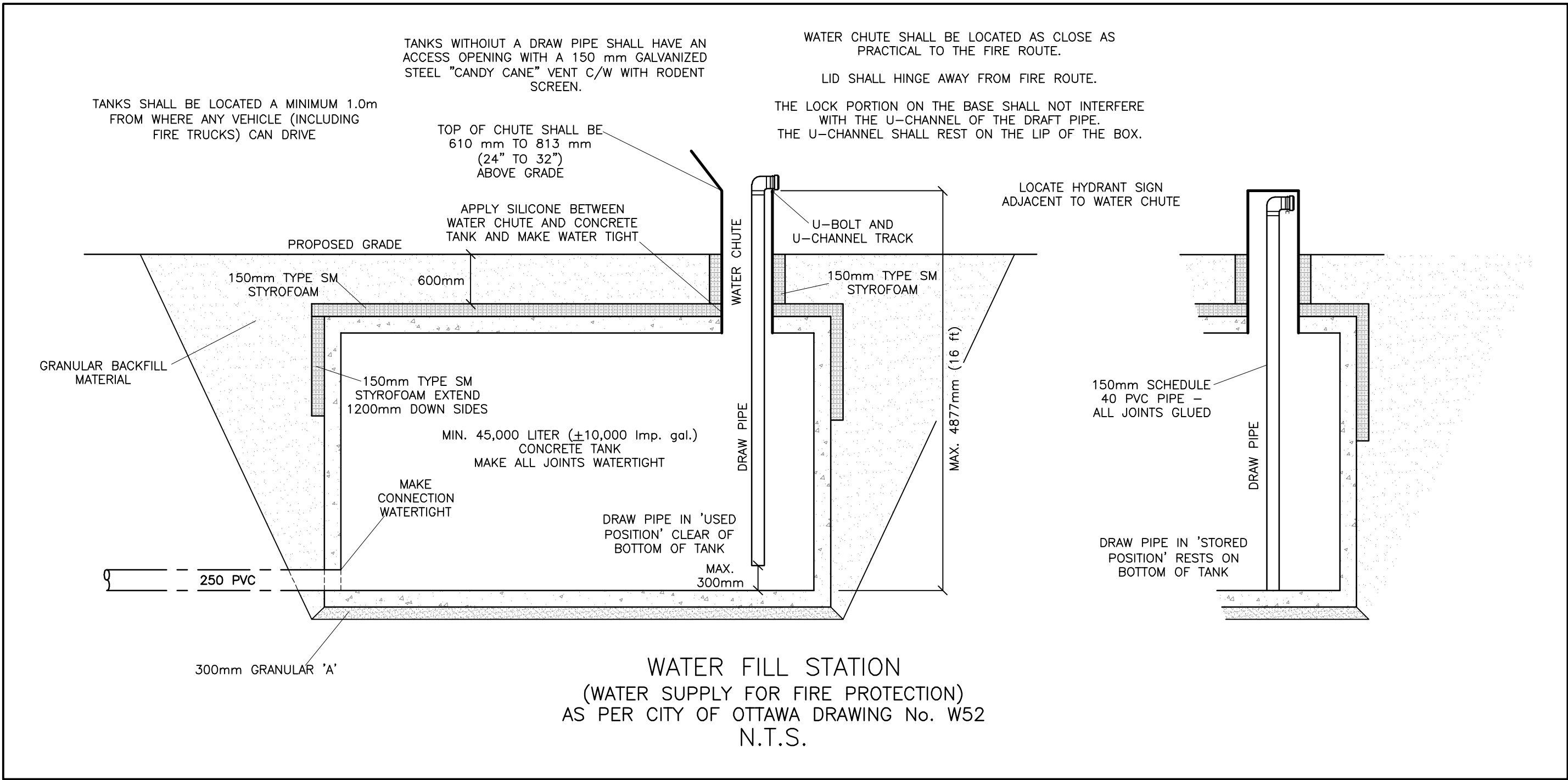
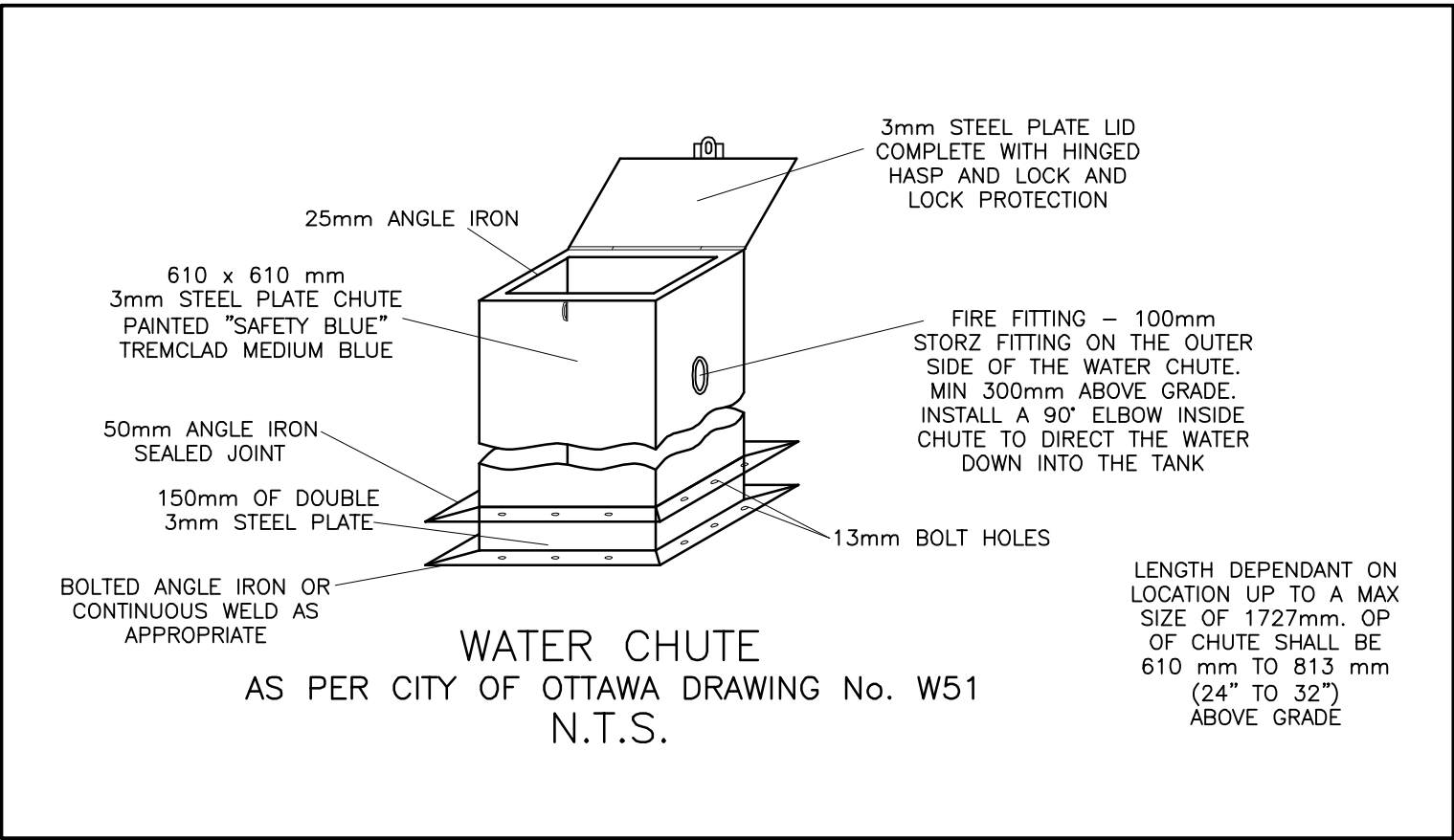
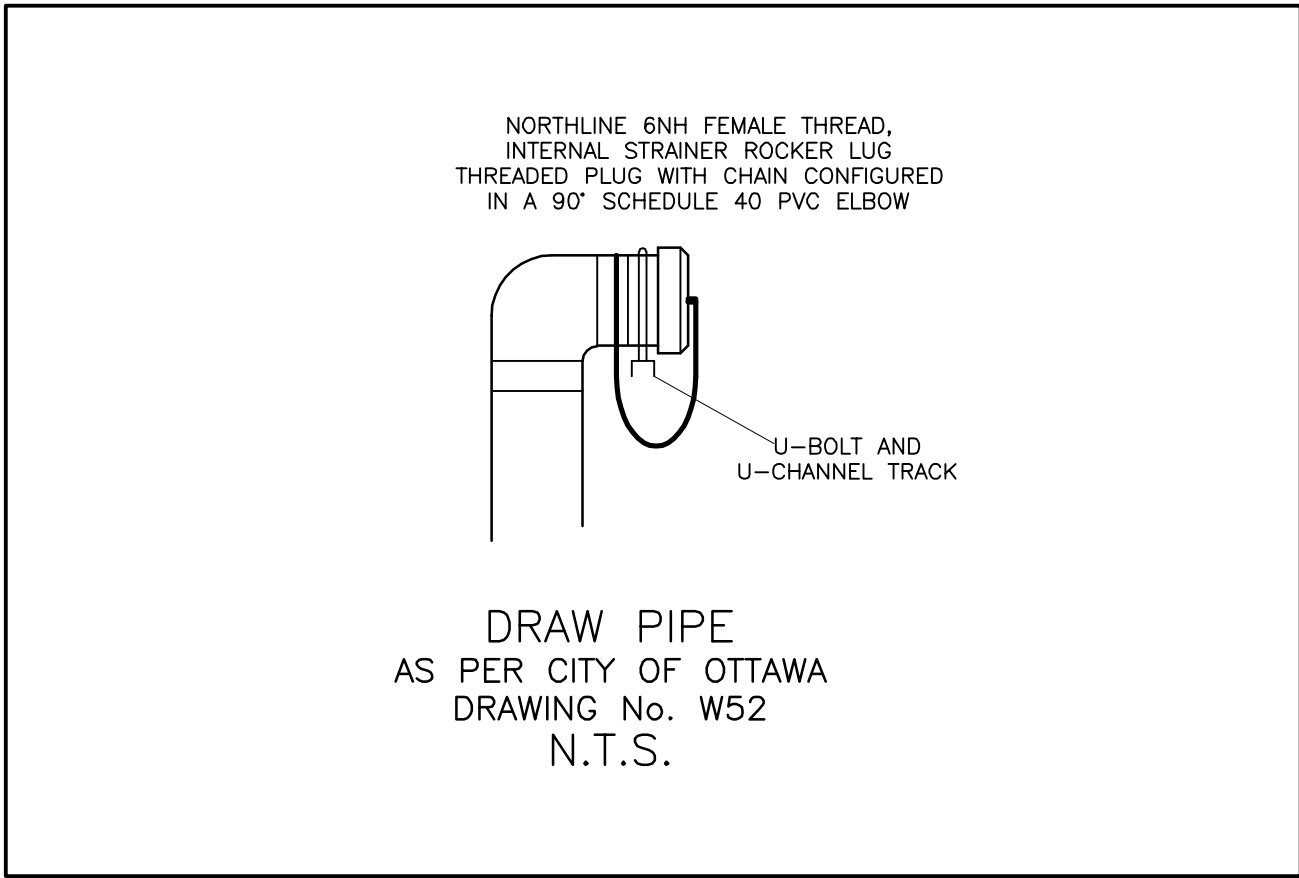
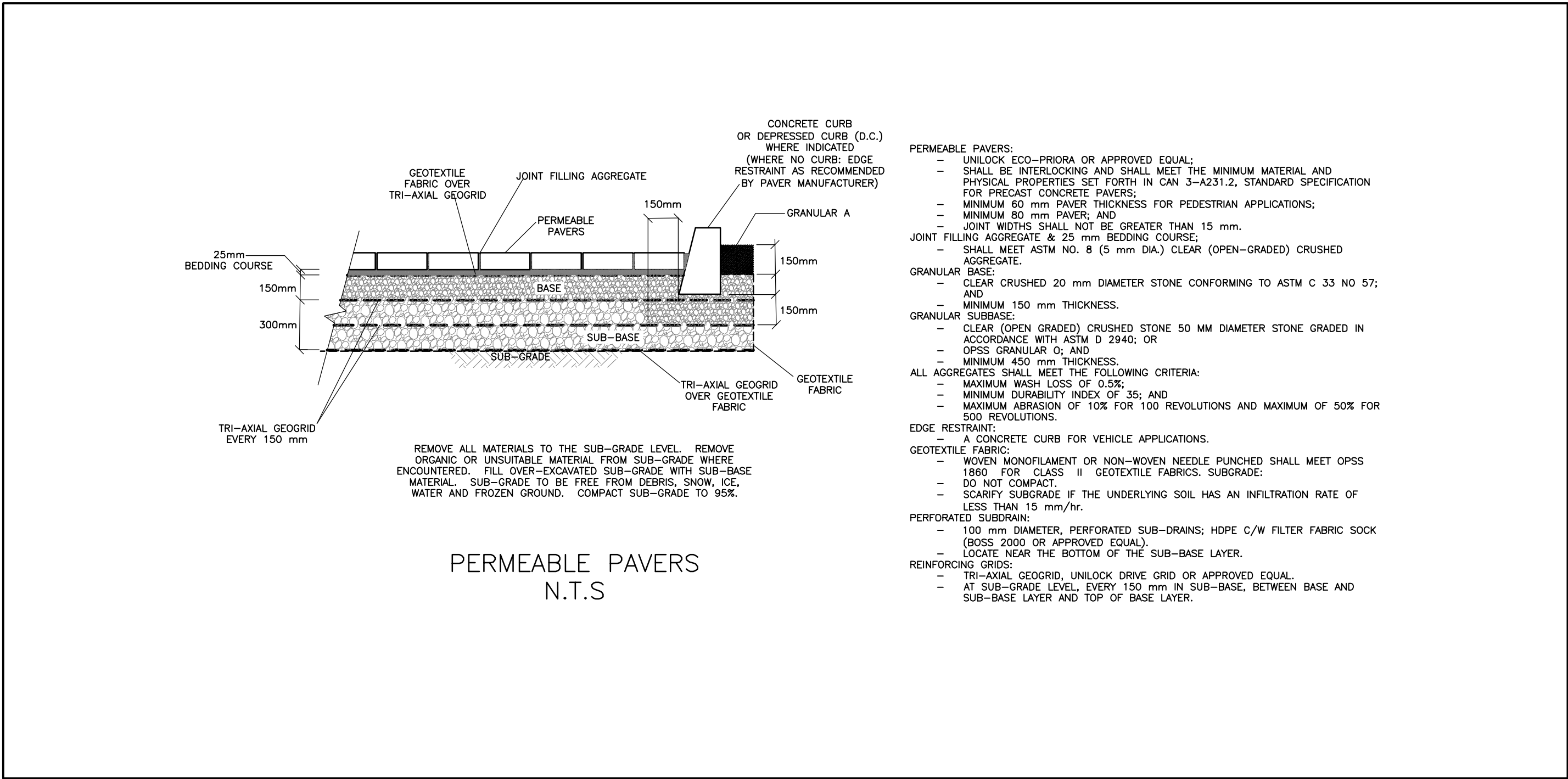
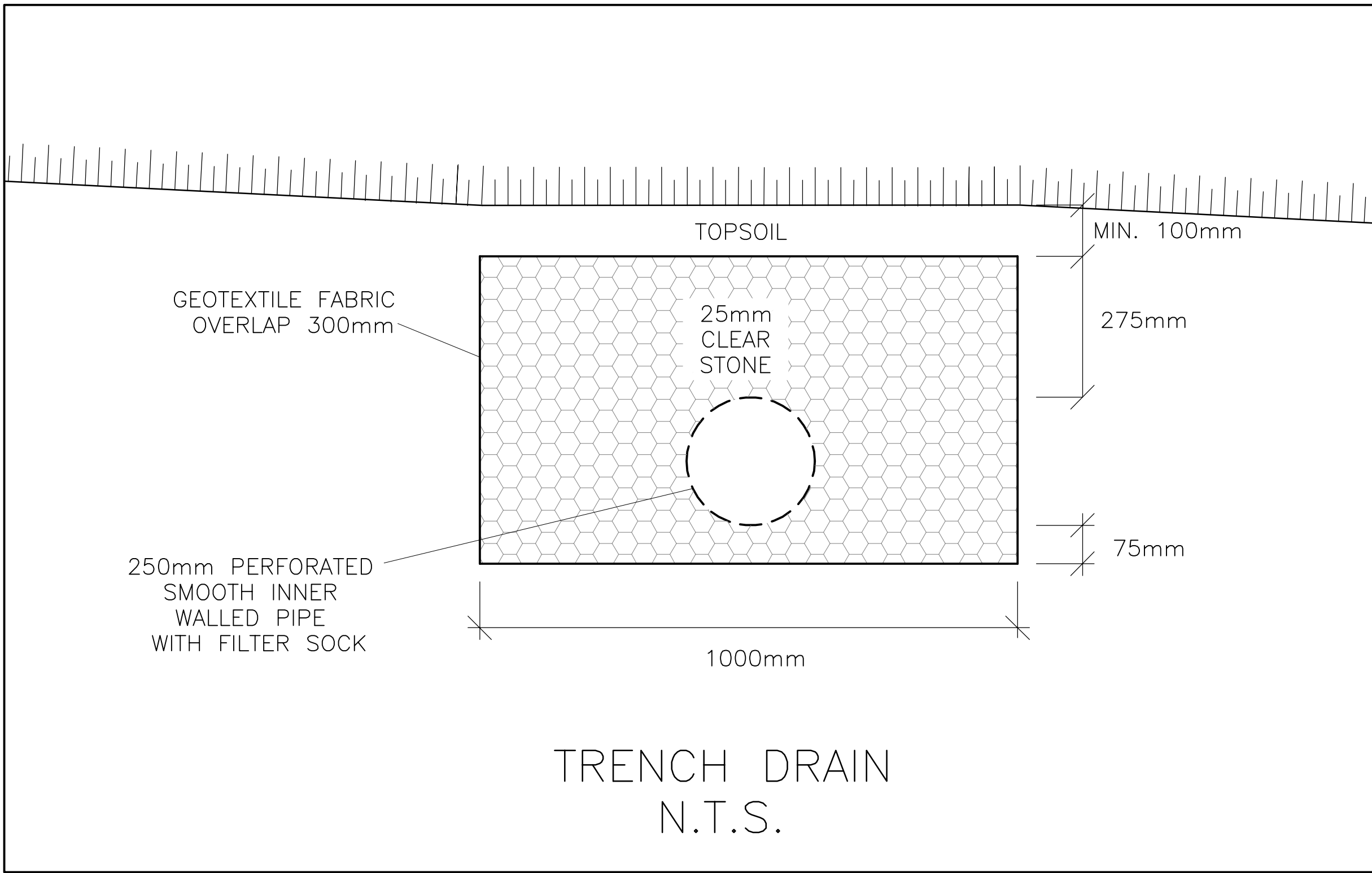
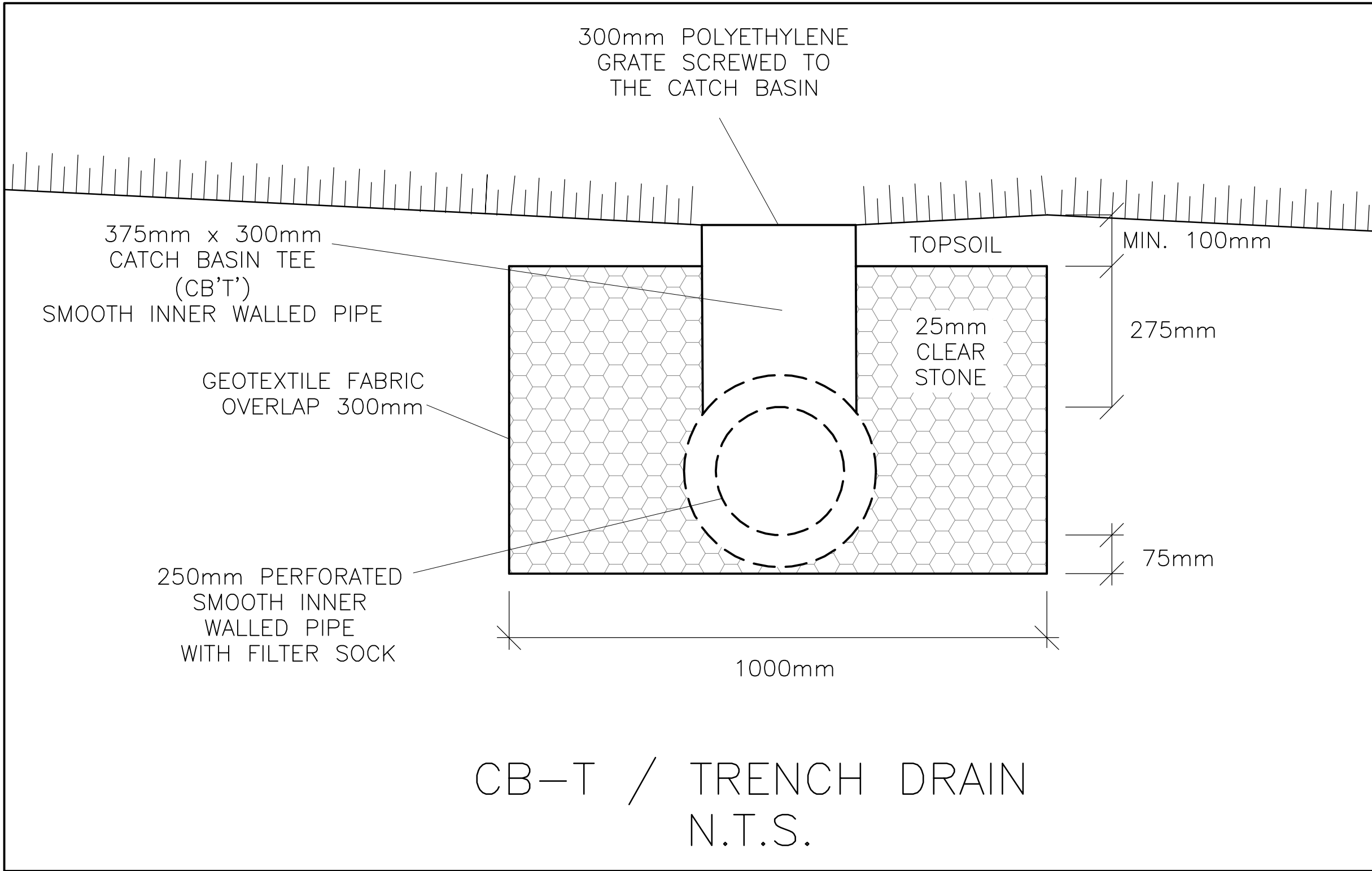
NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.
H. Scale 1:300
V. Scale
Date JUL 11-24
Job No. 20029

Drawing No.
C-4
of 7

REFER TO NOTES & DETAILS
ON DRAWING C-5 & C-6

- 1. CONSTRUCTION:**
- 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 INFRASTRUCTURE (SERVICES, UTILITIES, AND STRUCTURES) AND ARE NOT NECESSARILY SHOWN ON DRAWINGS AND NOT BE INDICATED ON THE DRAWINGS ARE DERIVED FROM AVAILABLE INFORMATION AND ARE FOR GUIDANCE ONLY AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING ANY WORK. 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 INFRASTRUCTURE ON THE SITE AND ADJACENT TO THE PROJECT. UNDERGROUND SERVICES (INCLUDING BUT NOT LIMITED TO ONTARIO ONE CALL: 1-800-400-2255) SHALL BE CONDUCTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION. CONFIRM LOCATIONS OF BURIED INFRASTRUCTURE BY CAREFUL TEST EXCAVATIONS AND REPORT ANY DIFFERENCES TO THE ENGINEER. THE ENGINEER WILL BE RESPONSIBLE FROM FAILURE OF CONTRACTOR TO DETERMINE THE SIZE, DEPTH AND LOCATION ALL EXISTING INFRASTRUCTURE WILL BE AT THE CONTRACTOR'S EXPENSE.
 - C. EXISTING GRADE ELEVATIONS SHOWN ON DRAWINGS ARE DERIVED FROM AVAILABLE INFORMATION AND ARE FOR GUIDANCE ONLY AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING CONSTRUCTION. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. REPORT ANY DIFFERENCES TO ENGINEER.
 - D. COORDINATE AND SCHEDULE WORK WITH THE OWNER, AUTHORITIES AND OTHER TRADES.
 - E. SCHEDULE WORK TO PROVIDE THE MINIMUM DISRUPTION TO SERVICES.
 - F. INSTALL CONSTRUCTION FENCING AROUND THE AREA OF WORK. DO NOT REMOVE FENCING UNTIL WORK IS COMPLETE.
- 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 PROTECT EXISTING 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 AS REQUIRED BY THE AUTHORITIES, INCLUDING ANY NECESSARY PERSONNEL, AND THE SUPPLY, INSTALLATION, REMOVAL AND REPLACEMENT OF ALL NECESSARY SIGNAGE AND BARRIERS. IF APPLICABLE, PROVIDE TRAFFIC MANAGEMENT PLAN AS PER CITY OF OTTAWA REQUIREMENTS.
- 5.5. FENCE OFF ALL OPEN EXCAVATIONS AT THE END OF EACH WORK DAY. FENCES SHALL BE INSTALLED AND MAINTAINED A GOOD AND EFFECTIVE CONDITION.
- 5.6. CUT AND REMOVE EXCESSIVE ICE AND SNOW FROM SURFACES TO BE EXCAVATED.
- 5.7. CUT PAVEMENT AND / OR SIDEWALK NEATLY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK EVENLY AND CLEANLY.
- 5.8. COORDINATE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUND MATERIAL, BACKFILL, SUB-BASE AND ASPHALT TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT AND ENGINEER. SUBMIT GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS TO THE ENGINEER. PLACE MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS.
- 5.9. COORDINATE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUND MATERIAL, BACKFILL, SUB-BASE AND ASPHALT TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT AND ENGINEER. SUBMIT GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS TO THE ENGINEER. PLACE MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS.
- 5.10. PROTECT WORK AREA AGAINST FLOODING AND DAMAGE DUE TO SURFACE RUN-OFF. DETAHER AS REQUIRED TO KEEP WORK AREA FREE OF WATER. DISCHARGE FROM DETAHERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL MEASURE AND/OR A VEGETATED DISCHARGE AREA. ENSURE THAT THE DISCHARGE WATER DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS.
- 5.11. EXCAVATION, TRENCHING, & BACKFILL:
- A. SHORE AND BRACE EXCAVATIONS, PROTECT SLOPES AND BANKS AND PERFORM ALL WORK IN ACCORDANCE WITH ONTARIO REGULATION 213/91 UNDER THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND OTHER AUTHORITIES HAVING JURISDICTION.
 - B. KEEP EXCAVATIONS FREE OF WATER WHILE WORK IS IN PROGRESS. PROTECT OPEN EXCAVATIONS AGAINST FLOODING AND DAMAGE DUE TO SURFACE RUN-OFF.
 - C. EXCAVATION SHALL NOT INTERFERE WITH BEARING CAPACITY OF ADJACENT FOUNDATIONS.
 - D. DO NOT OBSTRUCT FLOW OF SURFACE DRAINAGE OR NATURAL WATERCOURSES.
 - E. EXCAVATE TO LINES, GRADES, ELEVATIONS AND DIMENSIONS AS INDICATED.
 - F. EARTH PORTIONS OF EXCAVATIONS TO BE UNDISTURBED SOIL, LEVEL, FREE FROM LOOSE, SOFT OR ORGANIC MATTER.
 - G. ALL STRUCTURES WITHIN PAVED AREAS SHALL HAVE 4:1 FROST TAPERS FROM FROST LINE TO SUB-GRADE.
 - H. CORRECT OVER-EXCAVATION WITH GRANULAR A COMPACTED TO NOT LESS THAN 95% OF CORRECTED MAXIMUM DRY DENSITY.
 - I. SUB-GRADE AND AREAS TO BE BACKFILLED TO BE FREE FROM DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND.
 - J. DO NOT USE BACKFILL MATERIAL WHICH IS FROZEN OR CONTAINS ICE, SNOW OR DEBRIS.
 - K. USE BEDDING OR SURROUND MATERIAL SHALL BE OPSS GRANULAR A. SURROUND MATERIAL FOR CONCRETE PIPE MAY BE CLEAN WELL GRADED SAND. RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED.
 - L. DO NOT USE BEDDING, SURROUND OR BACKFILL MATERIAL WHICH IS FROZEN OR CONTAINS ICE, SNOW OR DEBRIS.
 - M. PIPE BEDDING SHALL BE 150mm THICK. SHAPE BED TRUE TO GRADE AND TO PROVIDE CONTINUOUS, UNIFORM BEARING SURFACE FOR PIPE.
 - N. RIGID SURROUND MATERIAL AND PIPES TO BE LINED TO PREVENT CREEP DURING CURE. PROVIDE 300mm TO 300mm ABOVE PIPES.
 - O. PLACE BEDDING AND SURROUND MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. PLACE FILL AND BACKFILL MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS.
 - P. COMPACT EACH LAYER TO 95% OF CORRECTED DRY DENSITY BEFORE PLACING SUBSEQUENT LAYER.
 - Q. RIGID BACKFILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 24 HOURS AFTER EACH LAYER OF CONCRETE.
 - R. BACKFILL MATERIALS WITHIN 1.8m OF PROPOSED GRADE SHALL MATCH THE MATERIALS EXPOSED ON THE TRENCH WALLS. BACKFILL BELOW 1.8m OF THE PROPOSED CAN CONSIST OF EITHER ACCEPTABLE NATURAL MATERIAL; ROCK; OR IMPORTED GRANULAR MATERIAL CONFORMING TO OPSS GRANULAR B TYPE I OR II. ANY ORGANIC SOILS OR TOPSOIL, IF ENCOUNTERED, SHALL BE REMOVED FROM THE EXCAVATION IF ROCK IS USED AS BACKFILL IT SHALL BE WELL SHATTERED AND GRADED AND 200mm OR SMALLER IN DIAMETER; TO PREVENT INGRESS OF FINE MATERIAL INTO Voids IN THE ROCK FILL. THE UPPER SURFACE OF THE ROCK FILL SHALL BE COVERED WITH 150mm LAYER OF COMPACTED, WELL GRADED CRUSHED STONE PLACED ON GEOTEXTILE FABRIC.
- 5.12. PIPES:
- A. HANDLE PIPE USING METHODS APPROVED BY MANUFACTURER.
 - B. LAY, CUT AND JOIN PIPES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - C. USE ONLY FITTINGS AS RECOMMENDED BY PIPE MANUFACTURER.
 - D. LAY PIPE ON PREPARED BED TRUE TO LINE AND GRADE AND ENSURE BARREL OF EACH PIPE IS IN CONTACT WITH SHAPED BED THROUGHOUT ITS FULL LENGTH. FREE OF SACS OR HIGH POINTS.
 - E. DO NOT EXCEED MAXIMUM JOINT DEFLECTION RECOMMENDED BY PIPE MANUFACTURER.
 - F. WHENEVER WORK IS SUSPENDED, INSTALL REMOVABLE WATERIGHT BULKHEAD AT OPEN END OF LAST PIPE LAD TO PREVENT ENTRY OF FOREIGN MATERIALS.
 - G. WHEN STOPPING OF WORK OCCURS, BLOCK PIPES TO PREVENT CREEP DURING CURE. PROVIDE 300mm TO 300mm ABOVE PIPES.
 - H. JOINTS SHALL BE STRUCTURALLY SOUND AND WATER TIGHT.
 - I. REPAIR OR REPLACE PIPE, PIPE JOINT OR BEDDING FOUND DEFECTIVE.
- 5.13. SEWERS:
- A. CONSTRUCT TRENCHES AS PER CITY Dwg S6 & S7.
 - B. RIGID STRUCTURES. INSTALL PIPE JOINTS NOT MORE THAN 1.2M FROM SIDE OF STRUCTURE.
 - C. MAINTAIN EXISTING SEWAGE FLOWS DURING CONSTRUCTION.
 - D. PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. SPECIFICALLY, THE LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410. REPAIR AND RESEAL SEWER LINE AS REQUIRED. REPAIR VISIBLE LEAKS REGARDLESS OF TEST RESULTS.
 - E. PLACE CHECK VALVES AT SEWER MANHOLES AND APPROPRIATE LOCATIONS. SECOND INSPECTION IMMEDIATELY PRIOR TO END OF WARRANTY PERIOD. A PAN AND TILT CAMERA SHALL BE USED. REPAIR SEWER LINE AS REQUIRED. SUBMIT REPORTS AND DVDS TO ENGINEER.
 - F. CONDUCT DYE TEST OF SANITARY SEWERS AND COORDINATE WITH ENGINEER. DYE TEST SHALL BE WITNESSED BY ENGINEER.
- 5.14. MANHOLES & CATCH BASINS:
- A. JOINTS SHALL BE MADE WATER TIGHT.
 - B. SET PRECAST CONCRETE BASE ON 150mm MINIMUM OF GRANULAR BEDDING COMPACTED TO 100% CORRECTED MAXIMUM DRY DENSITY.
 - C. MAKE EACH JOINT WATER TIGHT WITH RUBBER RING GASKETS.
 - D. PLACE GRANULAR BACKFILL MATERIALS IN A UNIFORM LAYERS TO COMPACTED THICKNESS OF 150mm, COMPACT TO 95% CORRECTED MAXIMUM DRY DENSITY.
 - E. PLACE FRAME AND COVER ON TOP SECTION TO ELEVATION AS INDICATED, IF ADJUSTMENT REQUIRED USE CONCRETE RINGS TO A MAXIMUM OF 300mm.
 - F. CLEAN UNITS OF DEBRIS, FOREIGN AND SURPLUS MATERIALS. REMOVE FINS AND SHARP PROJECTIONS. PREVENT DEBRIS FROM ENTERING SYSTEM.
 - G. PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. SPECIFICALLY, THE LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 407.
- 5.15. MAINTAIN RECORD DRAWINGS AND ACCURATELY RECORD DEVIATIONS FROM THE ORIGINAL CONTRACT DOCUMENTS CAUSED BY SITE CONDITIONS AND CHANGES MADE BY CHANGE ORDER OR ADDITIONAL INSTRUCTIONS. UPDATE DAILY AND MAKE AVAILABLE ON-SITE FOR REVIEW THROUGHOUT THE CONSTRUCTION PERIOD. RECORD DRAWINGS SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO CHANGES OF DIMENSION AND DETAIL; CHANGES TO GRADE ELEVATIONS; AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING AND NEW STRUCTURES. SUBMIT RECORD DRAWINGS TO A PERMANENT SURFACE STRUCTURE. SUBMIT A RECORD DRAWING OF "AS-BUILT" GRADE ELEVATIONS, PREPARED BY A AN OLS SURVEYOR, TO THE ENGINEER AT THE END OF CONSTRUCTION.
- 5.16. REINSTATE ALL AREAS DISTURBED BY CONSTRUCTION. REINSTATE PAVEMENTS, CURBS AND SIDEWALKS, TO THICKNESS, STRUCTURE AND ELEVATION WHICH EXISTED PRIOR TO CONSTRUCTION. REINSTATE LANDSCAPED AREAS TO THE CONDITION AND ELEVATION WHICH EXISTED BEFORE CONSTRUCTION.
- 5.17. CLEAN AND REINSTATE AREAS AFFECTED BY THE WORK.
6. PAVEMENT
- 6.1. PAVEMENT STRUCTURE:
- 40mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
 - 50mm HL-2 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
 - 150mm OPSS GRANULAR A BASE
 - 450mm OPSS GRANULAR B TYPE II SUB-BASE
 - RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED.
 - ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PS58-34.
 - HOT MIX ASPHALT MATERIALS SHALL BE ACCORDING TO OPSS 1150 OR 1151.
- 6.2. PAVEMENT SUB-GRADE PREPARATION AND CONSTRUCTION OF THE PAVEMENT STRUCTURE SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 6.3. ALL EXISTING ASPHALT TO BE REMOVED SHALL BE HAULED TO A FACILITY APPROVED FOR ACCEPTING SUCH MATERIALS. REMOVE ALL MATERIALS TO THE SUB-GRADE LEVEL. REMOVE ORGANIC OR UNSUITABLE MATERIAL FROM SUB-GRADE WHERE ENCOUNTERED TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT. SUB-GRADE TO BE FILL WITH UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS.
- 6.4. CONSTRUCT GRANULAR BASE AND SUB-BASE TO DEPTH AND GRADE IN AREAS INDICATED. CONSTRUCT A 5:1 V/FROST TAPER IN SUB-GRADE SURFACE AS A TRANSITION BETWEEN DIFFERING PAVEMENT STRUCTURES AND BETWEEN PAVEMENT AND CURBS AND SIDEWALKS.
- 6.5. ENSURE NO FROZEN MATERIAL IS PLACED. PLACE MATERIAL ON A CLEAN UNFROZEN SURFACE, FREE FROM SNOW OR ICE.
- 6.6. PLACE MATERIAL TO FILL WITH UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS. SHAPE EACH LAYER TO SMOOTH CONTOUR AND COMPACT TO SPECIFIED DENSITY BEFORE SUCCEEDING LAYER IS PLACED.
- 6.7. COMPACT SUB-BASE MATERIAL TO DENSITY OF NOT LESS THAN 98% CORRECTED MAXIMUM DRY DENSITY. FILL OVER-EXCAVATED SUB-GRADE WITH SUB-BASE MATERIAL COMPACTED TO 98% OF CORRECTED MAXIMUM DRY DENSITY. FILL OVER-EXCAVATED SUB-GRADE WITH SUB-BASE MATERIAL COMPACTED TO 98% OF CORRECTED MAXIMUM DRY DENSITY.
- 6.8. IN AREAS NOT ACCESSIBLE TO ROLLING EQUIPMENT, COMPACT TO SPECIFIED DENSITY WITH MECHANICAL TAMPERS.
- 6.9. REPLACE PAVEMENT DISTURBED BY CONSTRUCTION AND REPLACE WITH PAVEMENT STRUCTURE ABOVE.
- 6.10. WHERE NEW ASPHALT COMES IN CONTACT WITH EXISTING PAVEMENT: SAWCUT EXISTING ASPHALT LAYER TO CREATE A CLEAN STRAIGHT EDGE. TACK COAT SHALL BE APPLIED TO ASPHALT SURFACES AT WHICH JOINTS ARE TO BE MADE INCLUDING EXISTING PAVEMENT SURFACES THAT HAVE BEEN CUT, GROUND OR MILLED.
- 6.11. TACK COAT THE SURFACE OF ALL BINDER COURSES AND BUTTING CONCRETE SURFACES. SURFACES TO BE TACK COATED SHALL BE FREE OF STANDING WATER AND CONTAMINATION, SUCH AS MUD, LOOSE AGG



No.	DATE	REVISION
8	JUN 12-25	RE-ISSUED FOR APPROVAL & BUILDING PERMIT FOR PRIEST RESIDENCE
7	APR 10-25	RE-ISSUED FOR APPROVAL
6	OCT 25-24	ISSUED FOR APPROVAL
5	OCT 18-24	ISSUED FOR COORDINATION
4	OCT 15-24	ISSUED FOR COORDINATION
3	SEP 20-24	ISSUED FOR COORDINATION
2	AUG 6-24	ISSUED FOR COORDINATION
1	JUL 11-24	PRELIMINARY

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Project
PROPOSED HINDU TEMPLE
2104 ROGER STEVENS DR
NORTH GOWER, ONTARIO

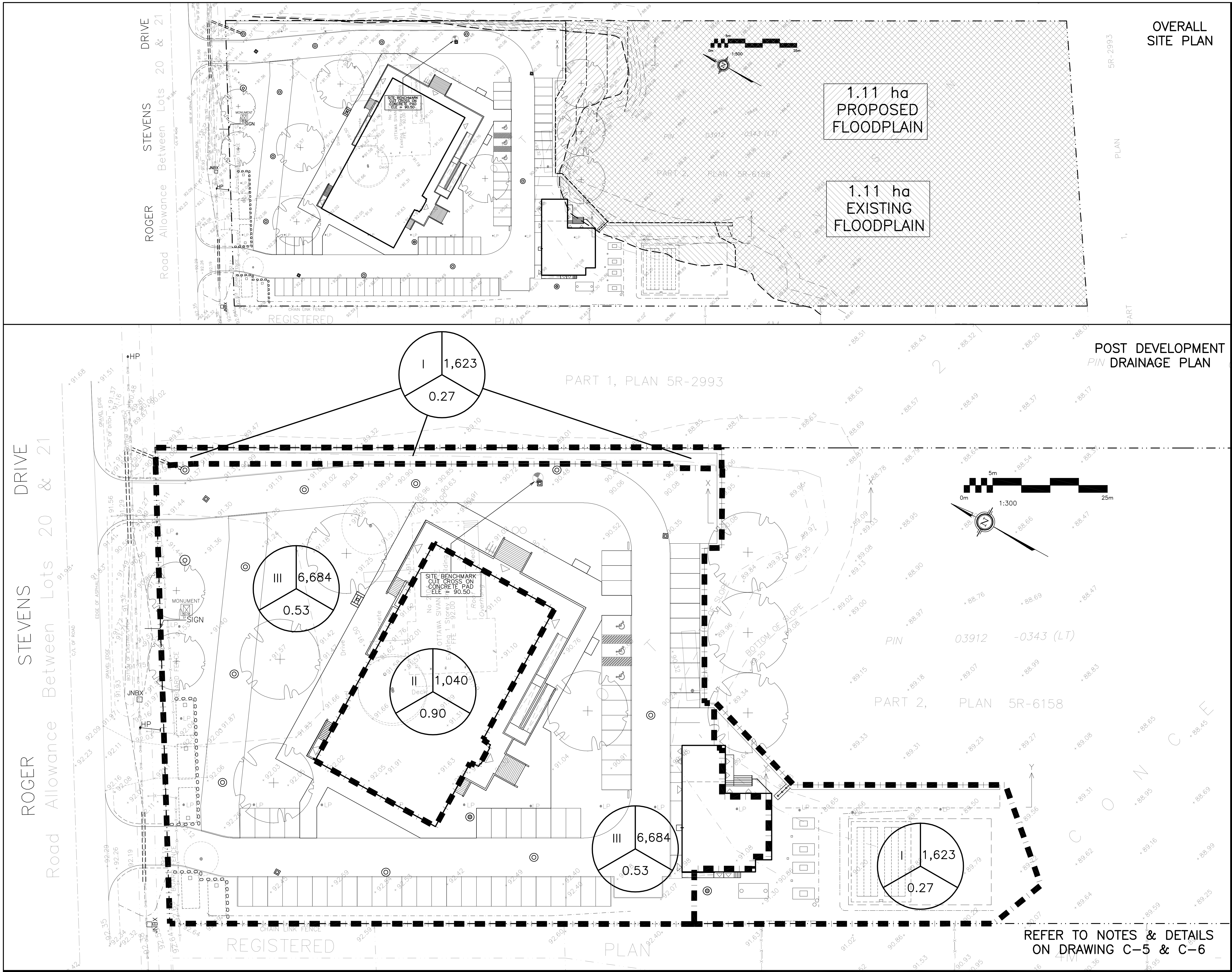
Drawing Title
DETAILS

Engineer's Seal

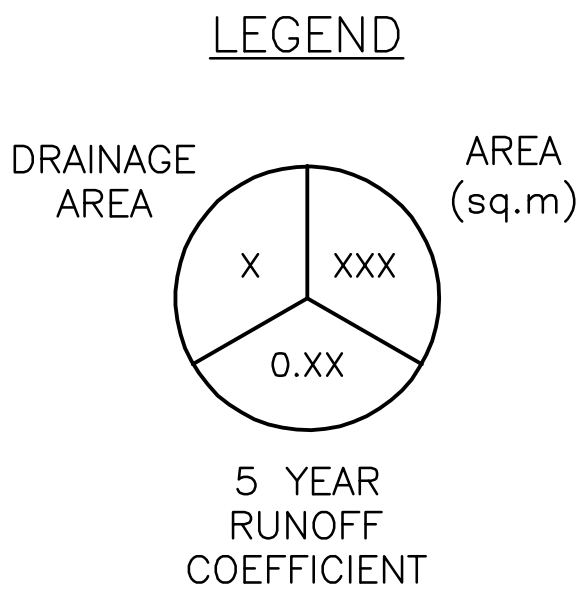
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Drawn D.B.G.
H. Scale 1:300
V. Scale
Date JUN 11-24
Job No. 20029

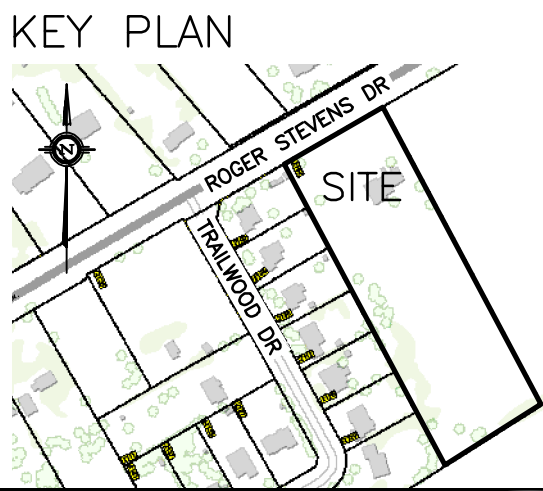
Drawing No.
C-6
of 7



OVERALL
SITE PLAN



POST DEVELOPMENT
PIN DRAINAGE PLAN



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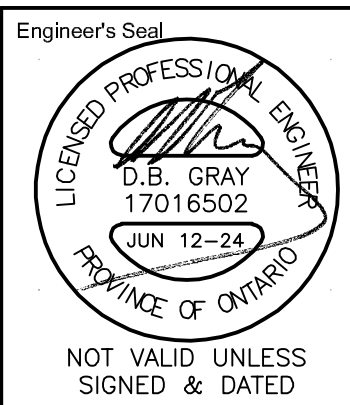
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Project

PROPOSED HINDU TEMPLE
2104 ROGER STEVENS DR
NORTH GOWER, ONTARIO

Drawing Title

OVERALL SITE PLAN &
POST DEVELOPMENT
DRAINAGE PLAN



Drawn D.B.G.
H. Scale
V. Scale
Date JUL 11-24
Job No. 20029

Drawing No.
C-7
of 7

REFER TO NOTES & DETAILS
ON DRAWING C-5 & C-6