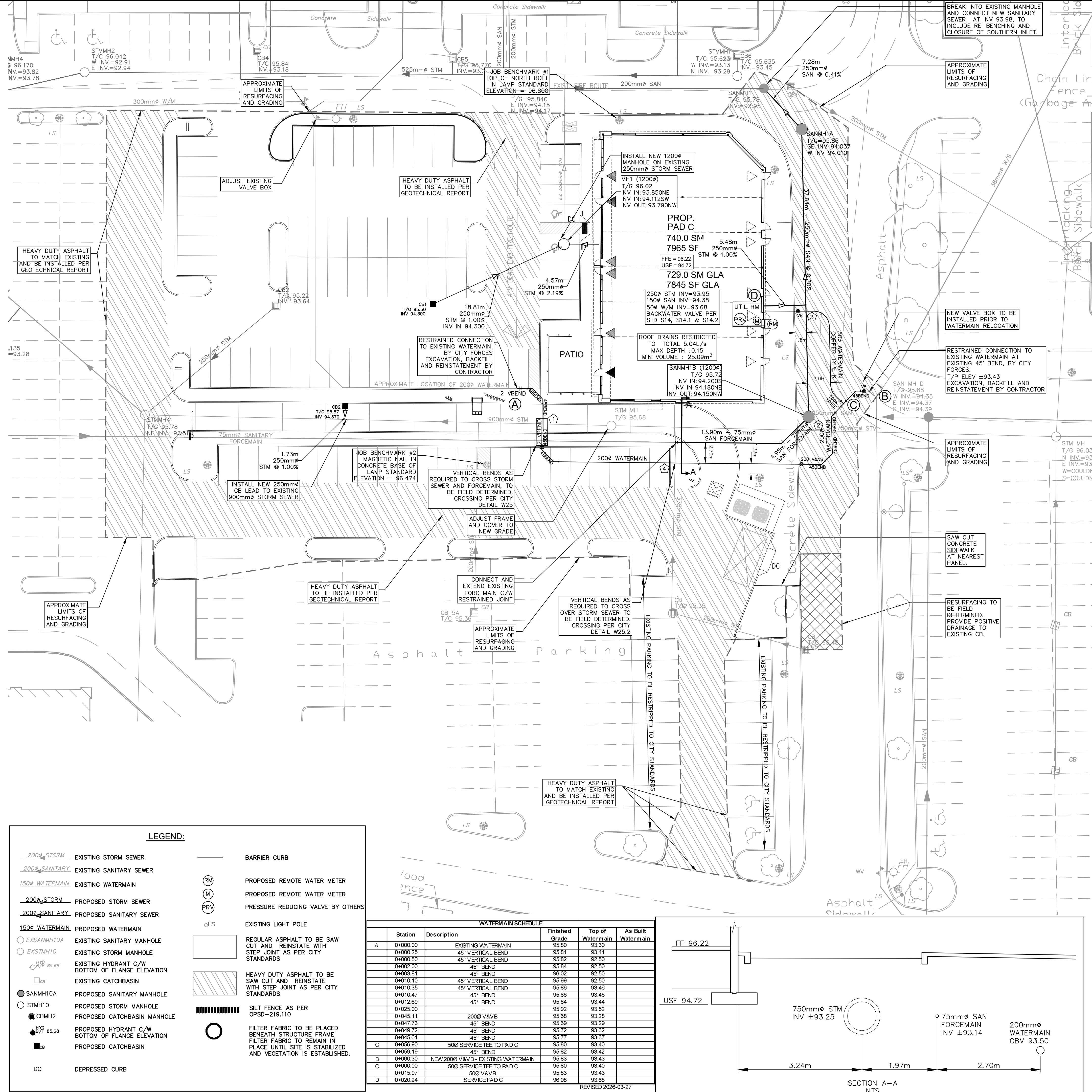


DRAWING NOTES

- 1.0 GENERAL
- 1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- 1.2 DO NOT SCALE DRAWINGS.
- 1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.
- 1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED ISSUED FOR CONSTRUCTION.
- 1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND REGULATIONS.
- 1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.
- 1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.
- 1.8 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.
- 1.9 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS. ALL ON-SITE CURBS TO BE BARRIER TYPE.
- 1.10 ALL CONCRETE SHALL BE NORMAL PORTLAND CEMENT IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.
- 1.11 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE OFF STRANDBERG DRIVE.
- 1.12 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.
- 1.13 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES. SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.14 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE.
- 1.15 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. EXCESS MATERIAL TO BE Hauled OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
- 1.16 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL.
- 1.17 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.
- 1.18 REFER TO ARCHITECTURAL SITE PLAN FOR PAVEMENT MARKING, PREPARED BY SCOLER LEE AND ASSOC.
- 1.19 CONTRACTOR TO UNCOVER EXISTING UTILITIES WELL IN ADVANCE OF PIPE LAYING IN ORDER TO CORRECT GRADE CONFLICTS AS REQUIRED, IF REQUIRED.
- 1.20 JOB BENCHMARKS:
 - BM#1 TOP OF NORTH BOLT IN LAMP STANDARD BASE. ELEV. 96.800
 - BM#2 MAGNETIC NAIL IN CONCRETE BASE OF LAMP STANDARD ELEV. 96.474
 - BENCH MARKS TAKEN FROM FARHALL MOFFATT & WOODLAND LTD. DRNG. IT/IR/ING DATED 2014-07-26
- 1.21 BACKWATER VALVE REQUIRED ON BUILDING SERVICES PER CITY STANDARDS (S14, S14.1 & S14.2) REFER TO MECHANICAL.
- 1.22 REFER TO MECHANICAL FOR ROOF DRAIN LOCATION
- 2.0 SANITARY
 - 2.1 ALL SANITARY SEWERMAINS TO BE CSA CERTIFIED PVC SDR 35, BELT AND SPOCKET TYPE, ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01.
 - 2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, STEPS IF REQUIRED, AND FRAME AND COVER.
 - 2.3 SANITARY MH FRAME AND COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.
 - 2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.
 - 2.5 ANY SANITARY SEWER WITH LESS THAN 1.8m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
 - 2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.
- 3.0 STORM
 - 3.1 ALL STORM SEWER TO BE CSA CERTIFIED PVC SDR 35 OR CONCRETE CLASS 100-D, BELT AND SPOCKET TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED.
 - 3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING FOR SEWERS 900mm OR GREATER, STEPS IF REQUIRED, AND FRAME AND COVER.
 - 3.3 STORM MH FRAME AND COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.
 - 3.4 STORM MAINTENANCE HOLES TO BE AS PER OSPD 701.010, TAPER TOP TYPE COMPLETE WITH 300mm SUMP FOR SEWER LESS THAN 900mm.
 - 3.5 ANY STORM SEWER WITH LESS THAN 1.8m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
 - 3.6 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.
- 4.0 WATER
 - 4.1 ALL WATER SERVICES TO BE COPPER OR APPROVED EQUAL WITH MINIMUM COVER OF 2.4 m AND INSTALLED AS PER CITY OF OTTAWA STANDARDS.
 - 4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OSPD 1103.01 AND 1103.02.
 - 4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMAINS AND DISINFECT AND CHLORINATE ALL WATERMAINS TO THE SATISFACTION OF M.O.E.E. AND THE CITY OF OTTAWA.
 - 4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN

STOP AS PER MUNICIPAL STANDARDS.

- 4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER MUNICIPAL STANDARDS.
- 4.6 ALL VALVES & VALVE BOXES, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.
- 4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.
- 4.9 CONNECTION TO EXISTING WATERMAIN TO BE CITY FORCES. EXCAVATION AND BACKFILLING AND REINSTATEMENT BY CONTRACTOR, COST TO BE INCLUDING THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.
- 4.10 ALL WATERMAIN CROSSING AS PER CITY OF OTTAWA STANDARDS W25 & W25.2
- 5.0 ROADS
 - 5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.
 - 5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER. CONTRACTOR TO MAINTAIN TRAFFIC FLOW THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD UNLESS OTHERWISE APPROVED BY THE ENGINEER. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 - 5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROFILES, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
 - 5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
 - 5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
 - 5.6 GRANULAR A MATERIAL ONLY TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR B PLACEMENT.
 - 5.7 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
 - 5.8 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.
 - 5.9 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
 - 5.10 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT.
 - 5.11 CONTRACTOR TO REINSTATE ANY DISTURBED AREA WITHIN EXISTING ROW OR ADJACENT LANDS TO THE BETTER OF IMPORTED SOD ON 100MM TOPSOIL, OR TO MATCH ORIGINAL CONDITION.
 - 5.12 ALL EXCESS MATERIAL TO BE HAUL OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
 - 5.13 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.
 - 6.0 SEDIMENT AND EROSION CONTROL
 - 6.1 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.). DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - 6.2 ANY GROUND WATER PUMPING IS LIMITED TO 10 000/L/D, AND SHALL BE DISCHARGED IN TO AN APPROVED FILTER MECHANISM PRIOR TO RELEASE TO THE ENVIRONMENT.
 - 6.3 SEEPAGE BARRIERS WILL BE CONSTRUCTED IN ANY TEMPORARY DRAINAGE DITCH.
 - 6.4 SILT SACKS OR APPROVED EQUIVALENT, WILL BE PLACED ON NEW OPEN INFRASTRUCTURES SUCH AS MANHOLES AND CATCH BASINS UNTIL STRUCTURES ARE COMMISSIONED AND PUT IN USE.
 - 7.0 GEOTECHNICAL
 - 7.1 FOR DETAILS OF TEST PITS AND VARIOUS CONSTRUCTION REQUIREMENTS SEE GEOTECHNICAL REPORT, BY PATERSON GROUP DATED JUNE 20, 2018.
 - 7.2 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
 - 7.3 ALL FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.
 - 7.4 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.
 - 7.5 CLAY SEALS TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - 7.6 PIPE BEDDING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH LATEST CITY OF OTTAWA STANDARD. AT A MINIMUM BEDDING FOR SEWER AND WATERMAIN SHALL BE 150mm OPSS GRANULAR A, COMPACTED TO 95% SPMD AND EXTEND TO SPRINGLINE OF PIPE. COVER MATERIAL SHALL CONSIST OF OPSS GRANULAR A AND SHALL EXTEND FROM SPRINGLINE TO MINIMUM 300mm ABOVE OVERTOP OF PIPE, AND COMPACTED TO 95% SPMD. SEE GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS.



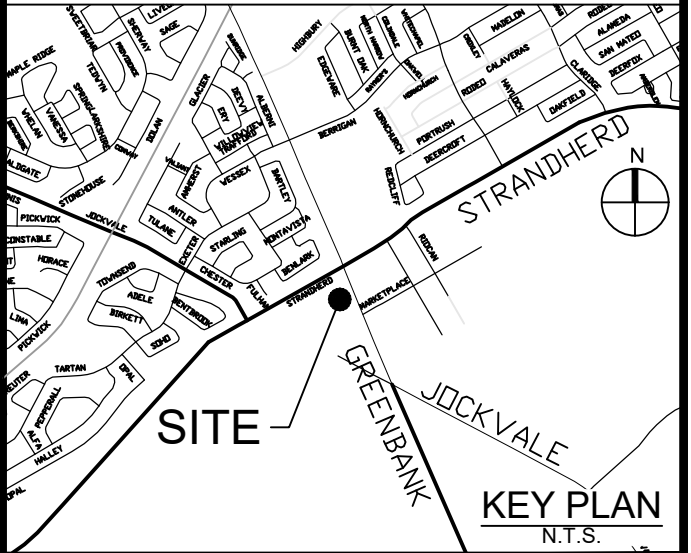
CROSSING TABLE

1	2000 W/M 0.50m BELOW 9000 STM	2000 W/M 0.76m BELOW 750 F.M.
2	2000 W/M 0.50m BELOW 7500 STM	2000 W/M 1.47m BELOW 2500 SAN
3	500 W/M 0.58m BELOW 2500 SAN	
4	2000 W/M (93.62 OBV) OVER 3750 STORM (ELEVATION OF EXISTING STORM TO BE FIELD VERIFIED)	

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STE 900, 60 ST. CLAIR AVE E, TORONTO, ONTARIO, M4T 1N5
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No.	REVISIONS	By	Date
14			
13			
12			
11			
10			
9			
8	SPA SUBMISSION #4	DGY	26:04:02
7	REVISED PER NEW SITE PLAN	DGY	25:11:25
6	SPA SUBMISSION #3	DGY	19:01:01
5	REVISED PER CITY COMMENTS	DGY	18:11:16
4	SPA SUBMISSION #2	DGY	18:10:15
3	ISSUED FOR SPA	DGY	18:05:14
2	REVISED PER ARCH COMMENTS	DGY	18:05:03
1	ISSUED FOR TEAM COORDINATION	DGY	18:05:02

NADG

ARCADIS

333 Preston Street - Suite 500
Ottawa ON K1S 5N4 Canada
Tel 613 225 1311
www.arcadis.com

PAD C BARHAVEN TOWN CENTRE

Project Title

SITE SERVICING PLAN

3777 STRANDHERD DRIVE

Scale: 1:250

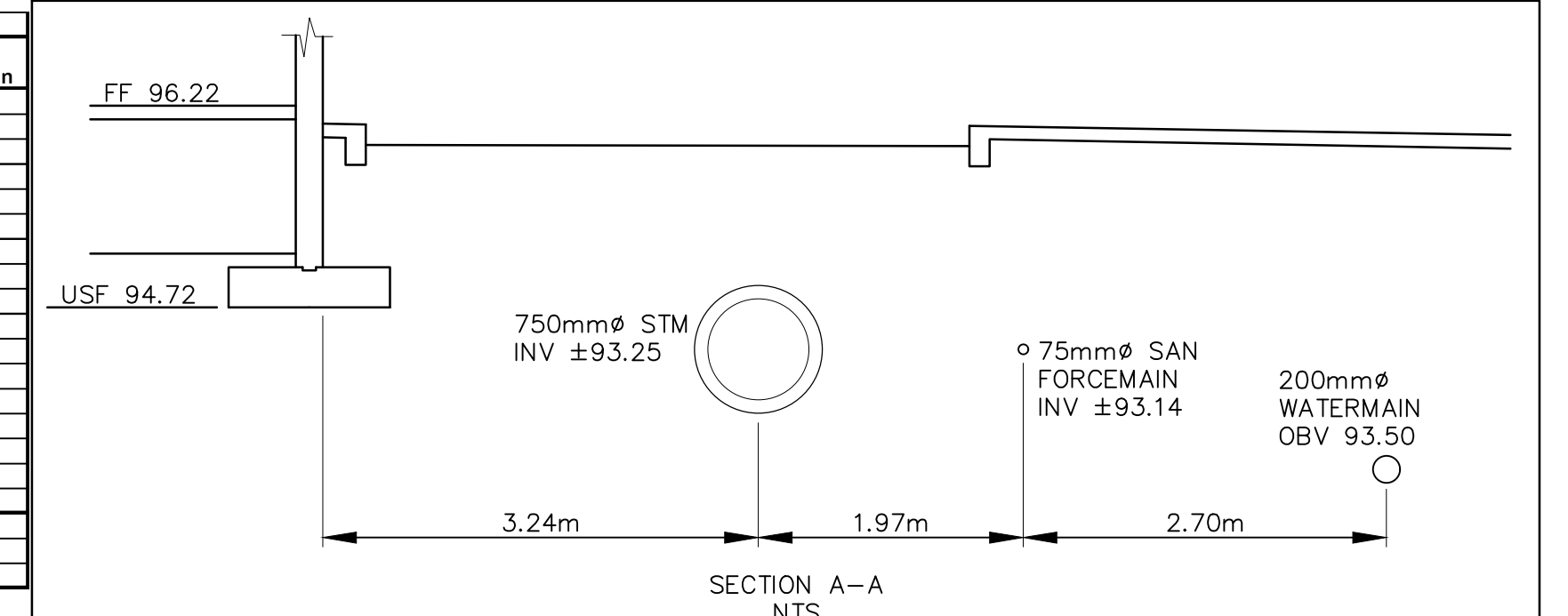
Design	R.M.	Date	APRIL 2018
Drawn	E.H.	Checked	D.G.Y.
Project No.	116390	Drawing No.	C-001

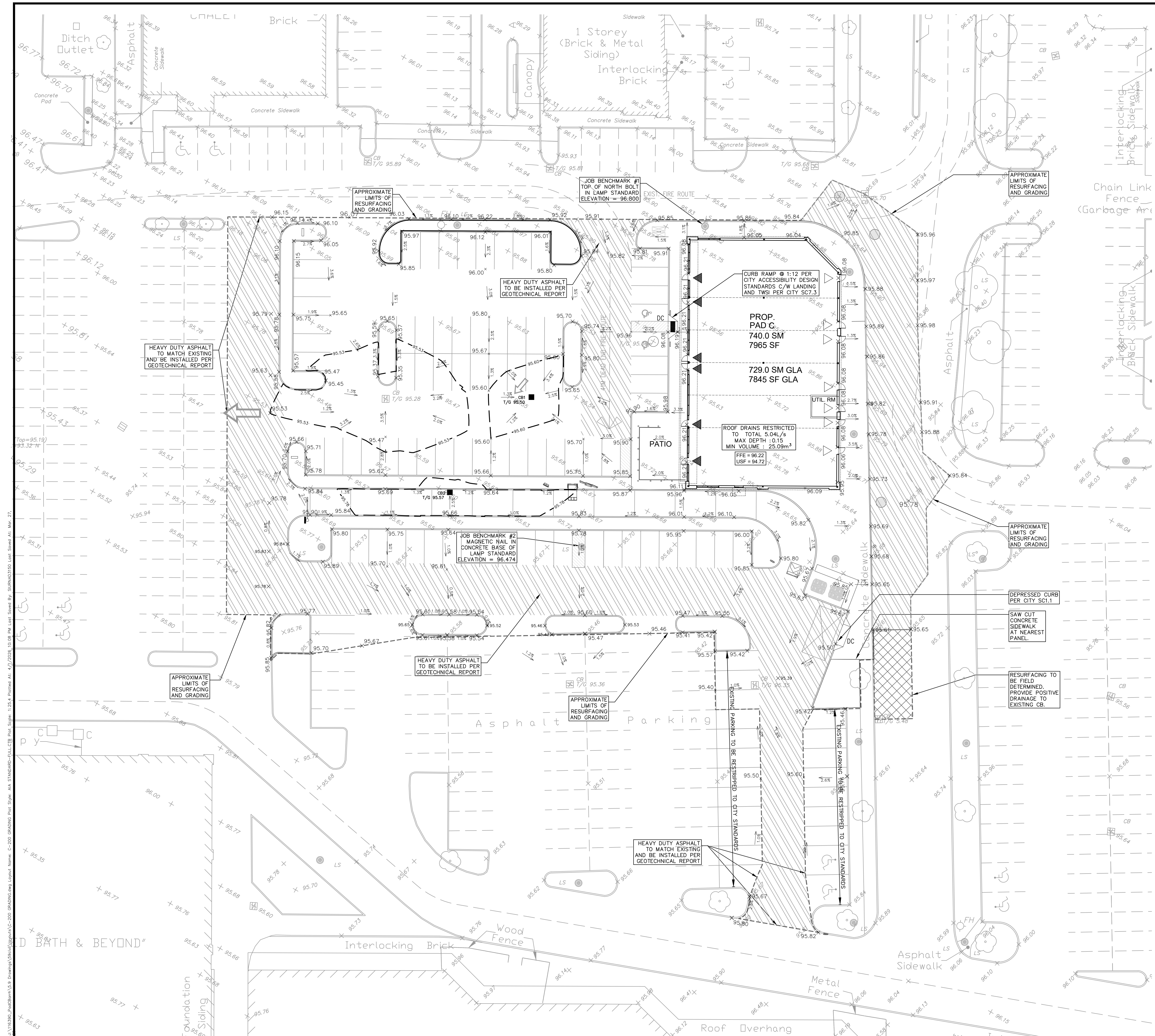
LEGEND:

	EXISTING STORM SEWER		BARRIER CURB
	EXISTING SANITARY SEWER		PROPOSED REMOTE WATER METER
	EXISTING WATERMAIN		PROPOSED REMOTE WATER METER
	PROPOSED STORM SEWER		PRESSURE REDUCING VALVE BY OTHERS
	PROPOSED SANITARY SEWER		EXISTING LIGHT POLE
	PROPOSED WATERMAIN		REGULAR ASPHALT TO BE SAW CUT AND REINSTATE WITH STEP JOINT AS PER CITY STANDARDS
	EXISTING SANITARY MANHOLE		HEAVY DUTY ASPHALT TO BE SAW CUT AND REINSTATE WITH STEP JOINT AS PER CITY STANDARDS
	EXISTING STORM MANHOLE		SILT FENCE AS PER OSPD-219.110
	EXISTING HYDRANT C/W BOTTOM OF FLANGE ELEVATION		FILTER FABRIC TO BE PLACED BENEATH STRUCTURE FRAME. FILTER FABRIC TO REMAIN IN PLACE UNTIL SITE IS STABILIZED AND VEGETATION IS ESTABLISHED.
	PROPOSED SANITARY MANHOLE		
	PROPOSED STORM MANHOLE		
	PROPOSED CATCHBASIN MANHOLE		
	PROPOSED HYDRANT C/W BOTTOM OF FLANGE ELEVATION		
	PROPOSED CATCHBASIN		
	DEPRESSURE CURB		

WATERMAIN SCHEDULE

Station	Description	Finished Grade	Top of Watermain	As Built Watermain
A +0+00.00	EXISTING WATERMAIN	95.80	93.30	
A +0+00.25	45° VERTICAL BEND	95.81	93.41	
A +0+00.50	45° VERTICAL BEND	95.82	92.50	
A +0+02.00	45° BEND	95.84	92.50	
A +0+03.81	45° BEND	96.02	92.50	
A +0+10.10	45° VERTICAL BEND	95.99	92.50	
A +0+10.35	45° VERTICAL BEND	95.86	93.46	
A +0+10.47	45° BEND	95.86	93.46	
A +0+12.69	45° BEND	95.84	93.44	
A +0+25.00	45° BEND	95.92	93.52	
A +0+45.11	2000 V&V/B	95.68	93.28	
A +0+47.73	45° BEND	95.69	93.29	
A +0+49.72	45° BEND	96.72	93.32	
A +0+51.61	45° BEND	95.77	93.37	
C +0+58.90	500 SERVICE TIE TO PAD C	95.80	93.40	
A +0+59.19	45° BEND	95.82	93.42	
B +0+00.30	NEW 2000 V&V/B - EXISTING WATERMAIN	95.83	93.43	
C +0+00.00	500 SERVICE TIE TO PAD C	95.80	93.40	
C +0+15.97	500 V&V/B	95.83	93.43	
D +0+20.24	SERVICE PAD C	96.08	93.68	





- LEGEND:**
- +87.12 EXISTING GRADES
 - 87.30_s PROPOSED GRADES
 - 87.30T/C_s PROPOSED TOP OF CURB
 - AS-BUILT GRADE
 - EXISTING CURBS
 - PROPOSED CURBS
 - DEPRESSED CURB
 - REGULAR PAVEMENT STRUCTURE
 - HEAVY DUTY PAVEMENT STRUCTURE
 - MAJOR/EMERGENCY OVERLAND FLOW ROUTE
 - SURFACE FLOW DIRECTION
 - BUILDING ENTRANCE
 - EXISTING LIGHT POLE
 - RISER

REGULAR PAVEMENT STRUCTURE

- 50mm SUPERPAVE 12.5mm
- 150mm OPSS GRAN. A
- 300mm OPSS GRAN. B TYPE II

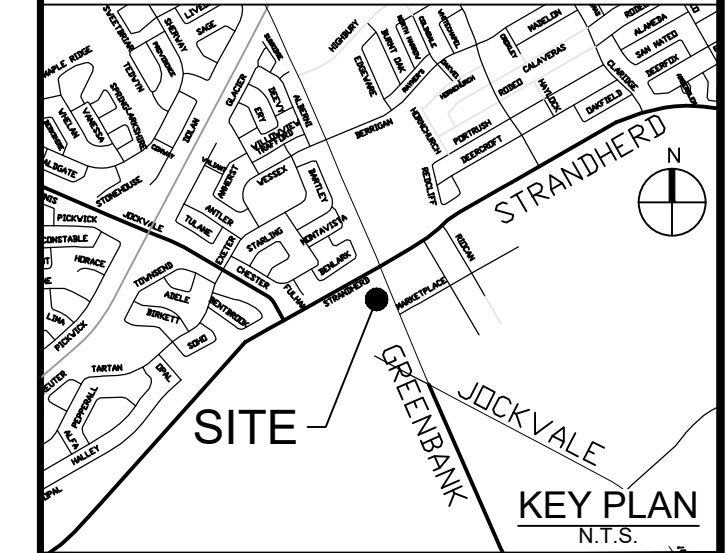
HEAVY DUTY PAVEMENT STRUCTURE (HEAVY TRUCK PARKING AND ACCESS LANES)

- 40mm SUPERPAVE 12.5mm
- 50mm SUPERPAVE 19.0mm
- 150mm OPSS GRAN. A
- 400mm OPSS GRAN. B TYPE II

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Project Title
PAD C BARHAVEN TOWN CENTRE

Professional Engineer
 D. Yannouloupoulos
 2026/04/02
 PROVINCE OF ONTARIO

Drawing Title
SITE GRADING PLAN
3777 STRANDHERD DRIVE

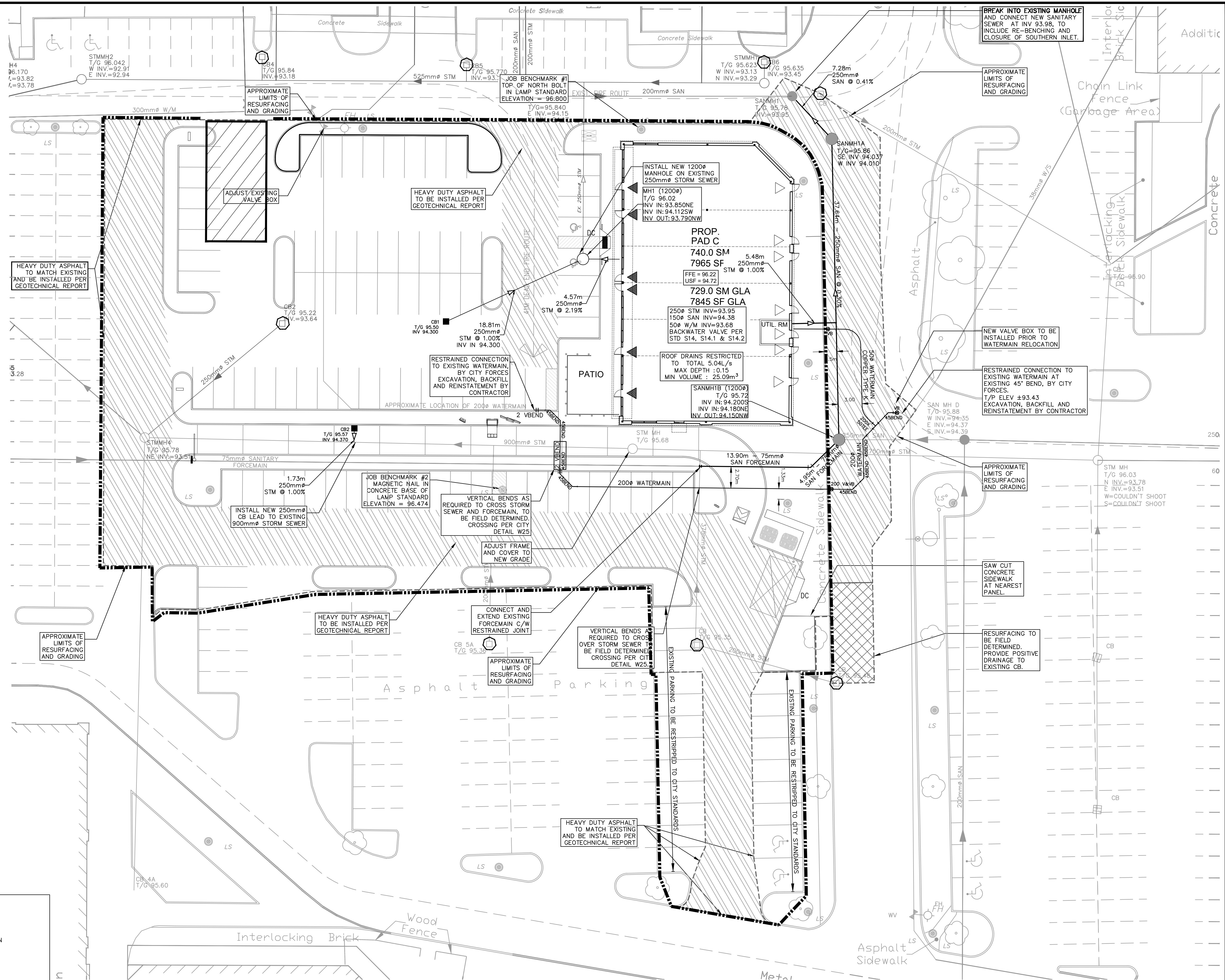
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Design	R.M.	Date	APRIL 2018
Drawn	E.H.	Checked	D.G.Y.
Project No.	116390	Drawing No.	C-200

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- NOTES:**
- SILT FENCE TO BE ERRECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
 - STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
 - GEOTEXTILE FABRIC TO BE PLACED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE FABRIC IN STREET CB'S TO REMAIN UNTIL BASE COURSE ASPHALT IS LAID. GEOTEXTILE FABRIC IN RYCB'S TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
 - CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DEWATERING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
 - CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.
 - THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

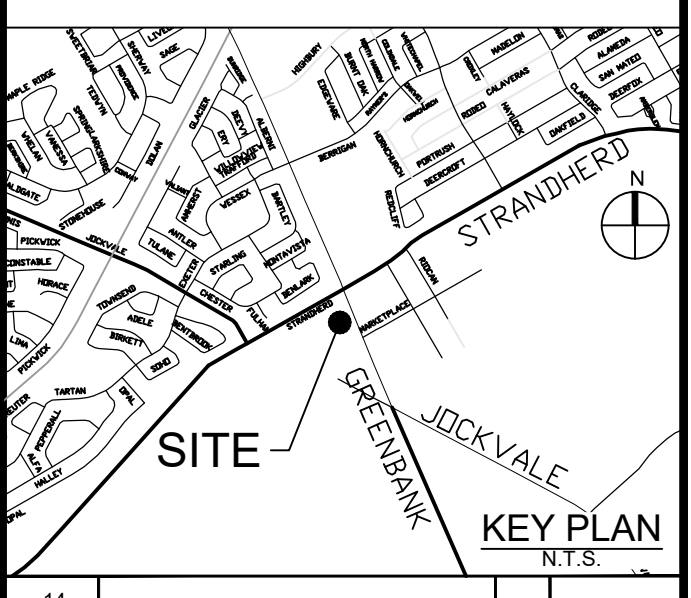


- LEGEND:**
- LIGHT DUTY SILT FENCE AS PER OPSD-219.110
 - SNOW FENCE
 - STRAW BALE CHECK DAM AS PER OPSD-219.180
 - ROCK CHECK DAM AS PER OPSD-219.210
 - SILT SACK PLACED UNDER EXISTING CB COVER
 - TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

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 STE 900, 60 ST. CLAIR AVE E, TORONTO, ONTARIO, M4T 1N5
 TEL: (416)302-7753



No.	REVISIONS	By	Date
14			
13			
12			
11			
10			
9			
8			
7	SPA SUBMISSION #4	DGY	26:04:02
6	REVISED PER NEW SITE PLAN	DGY	25:11:25
5	SPA SUBMISSION #3	DGY	19:01:01
4	REVISED PER CITY COMMENTS	DGY	18:11:16
3	SPA SUBMISSION #2	DGY	18:10:15
2	ISSUED FOR SPA	DGY	18:05:14
1	ISSUED FOR TEAM COORDINATION	DGY	18:05:02

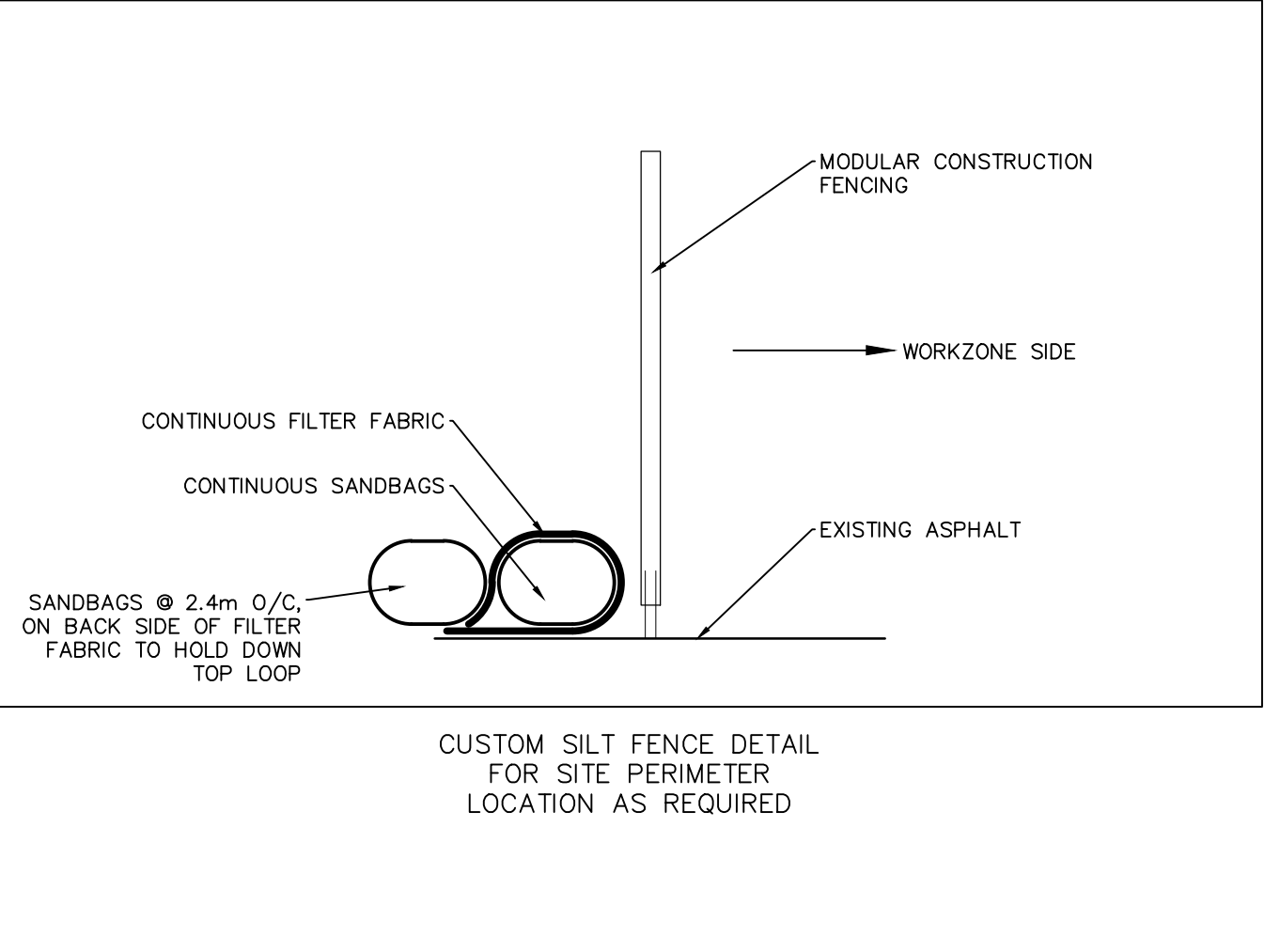
333 Preston Street - Suite 500
 Ottawa ON K1S 5N4 Canada
 tel 613 225 1311
 www.arcadis.com

Project Title
PAD C BARHAVEN TOWN CENTRE

Drawing Title
**SEDIMENT AND EROSION CONTROL PLAN
 3777 STRANDHERD DRIVE**

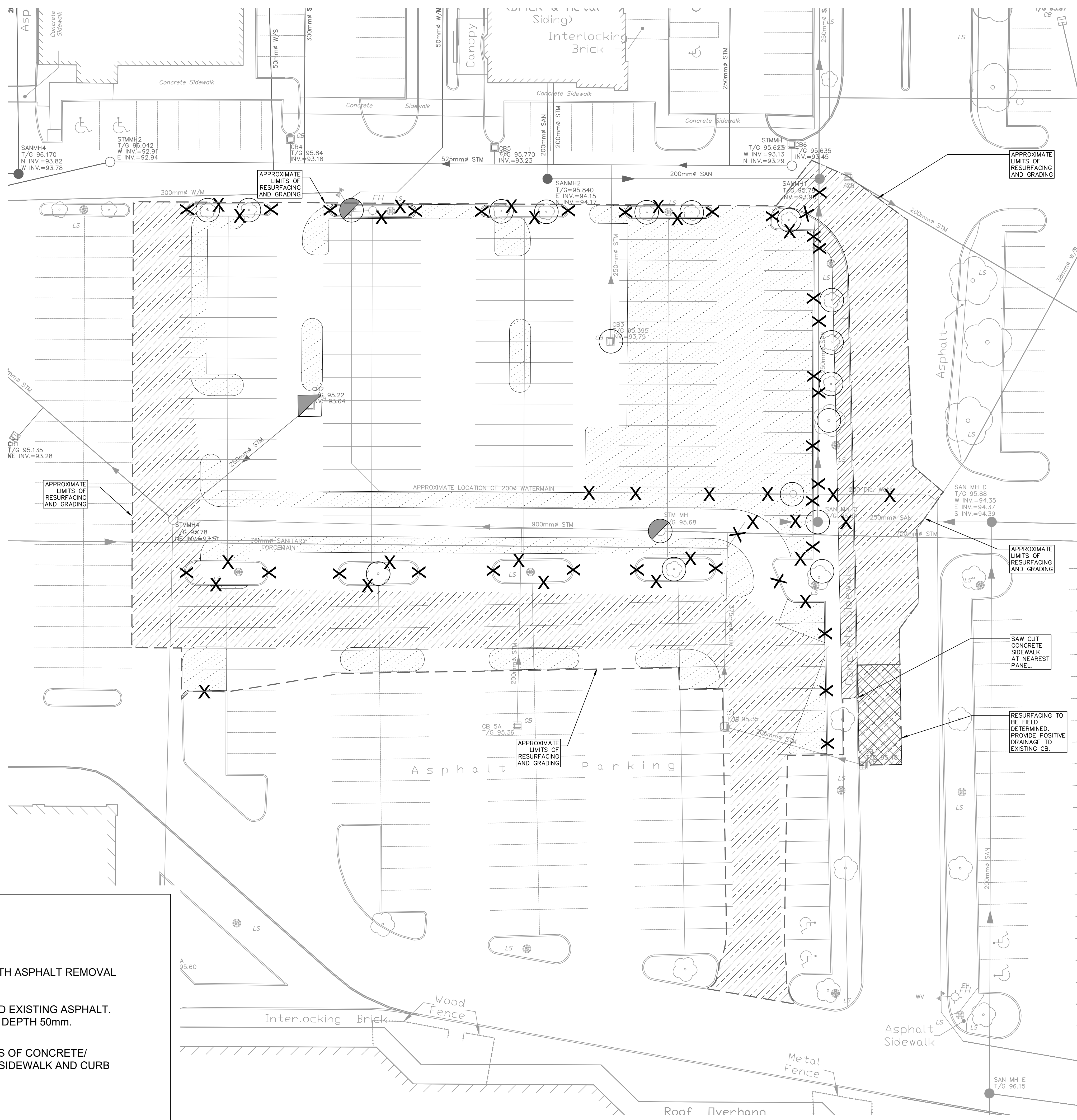
Scale: 1:250

Design	R.M.	Date	APRIL 2018
Drawn	E.H.	Checked	D.G.Y.
Project No.	116390	Drawing No.	C-900



J:\116390_PadC\Berm\3.9 Drawings\Site\3777\3777-0100.dwg: 1:25.4 Plotted At: 4/7/2018 10:18 PM. Last Saved By: SURVAD3150. Last Saved At: Feb. 21, 2018 10:18 AM.

D07-12-18-0106

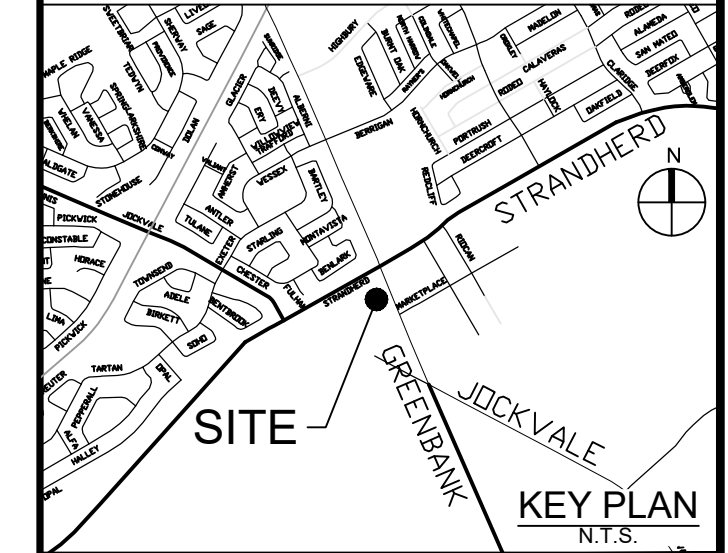


	REMOVAL		FULL DEPTH ASPHALT REMOVAL
	ADJUST MANHOLE, VALVES		DRY GRIND EXISTING ASPHALT. AVERAGE DEPTH 50mm.
	ADJUST CATCH BASIN		REMOVALS OF CONCRETE/ ASPHALT SIDEWALK AND CURB
	ADJUSTMENT BY BELL OR HYDRO APPROVED CONTRACTOR		
	REMOVE OR ABANDON SEWER, WATERMAIN, UTILITY, CURB RETURNS		
	PLUG		

OWNER : STEVE BISHOP
 NADG
 2851 JOHN ST, SUITE ONE, MARKHAM, ONTARIO, L3R 5R7
 TEL: (905)477-9200

APPLICANT : RON RICHARDS
 R. G. RICHARDS & ASSOCIATES
 1568 BOXWOOD WAY, MISSISSAUGA, ONTARIO, L5E 2X9
 TEL: (416)219-5122

ARCHITECT : SCOLER LEE + ASSOCIATES ARCHITECTS INC.
 STE 900, 60 ST. CLAIR AVE E, TORONTO, ONTARIO, M4T 1N5
 TEL: (416)362-7753



14			
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6			
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3			
2	SPA SUBMISSION #4	DGY	26:04:02
1	REVISED PER NEW SITE PLAN	DGY	25:11:25
No.	REVISIONS	By	Date

333 Preston Street - Suite 500
 Ottawa ON K1S 5N4 Canada
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Project Title
PAD C BARHAVEN TOWN CENTRE

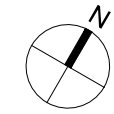
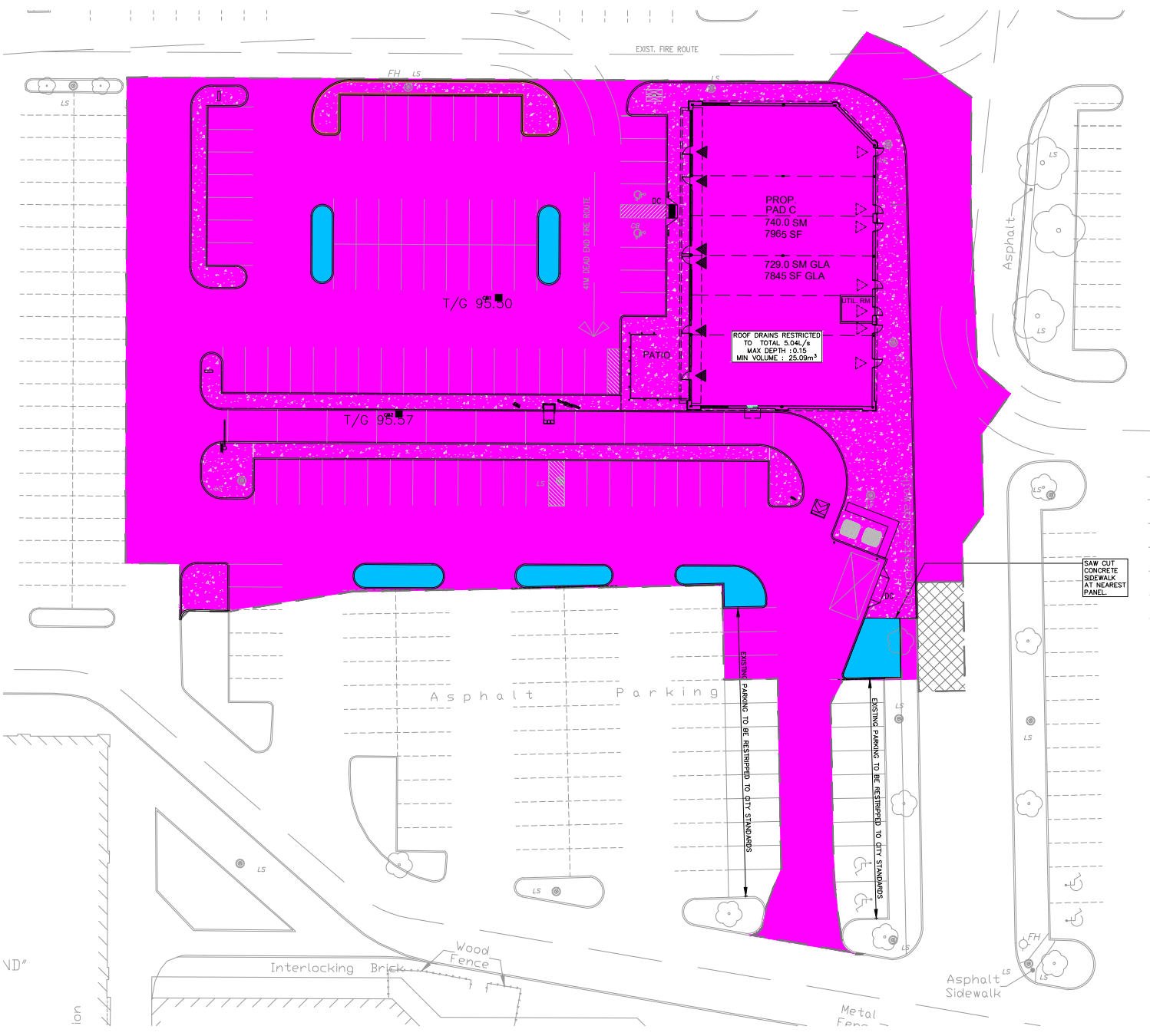
Drawing Title
REMOVALS
3777 STRANDHERD DRIVE

Scale
 1:250

Design	R.M.	Date	APRIL 2018
Drawn	E.H.	Checked	D.G.Y.
Project No.	116390	Drawing No.	C-REM

J:\116390_PadCRem\116390_PadCRem.dwg: AIA STANDARD - FULL CTB Plot Scale: 1:250 Plot Size: 11.000 x 16.500 (A) Plot Date: 4/7/2018 10:20 PM Last Saved By: SUBMANJISID Last Saved At: Apr 11 2018

J:\116390_PadCBarr\5.9 Drawings\59civil\current\116390Figures.dwg Layout Name: FIG2



LEGEND:

- C = 0.90 (PAVEMENT) 0.604 Ha
- C = 0.20 (GRASSED) 0.016 Ha

$$\begin{aligned}
 &0.604 \text{ Ha} @ 0.90 = 0.544 \\
 &0.016 \text{ Ha} @ 0.20 = 0.003 \\
 \hline
 \text{TOTAL POST-DEVELOPMENT AC} &= 0.547 \\
 \\
 \text{AVG C} &= 0.876 \\
 \text{NON ROOF AREA AVG C} &= 0.872
 \end{aligned}$$

Scale

Project Title

Drawing Title

Sheet No.



NTS

BARRHAVEN TOWN CENTRE
PAD C

STORMWATER MANAGEMENT
POST-DEVELOPMENT CONDITION (PROPOSED)

FIGURE 2
APRIL 2026