

KEY PLAN
N.T.S.

REMOVAL NOTES:

- REMOVE ALL PAVEMENT AND GRASSED AREAS WITHIN THE SHOWN PROPOSED LIMITS OF WORK. AS REQUIRED FOR NEW CONSTRUCTION, CONFIRM LIMITS OF REMOVAL WITH CONTRACT ADMINISTRATOR PRIOR TO COMMENCEMENT OF WORK.
- REMOVE AND SALVAGE EXISTING SIGNAGE, POSTS AND HARDWARE SECURED TO ANY FENCING, LIGHT POSTS OR PAVEMENT AREAS TO BE REMOVED, AS DIRECTED BY THE CONTRACT ADMINISTRATOR. SALVAGED SIGNS, POSTS AND HARDWARE SHALL BE SORTED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND DELIVERED TO THE FACILITY MAINTENANCE SUPERVISOR.

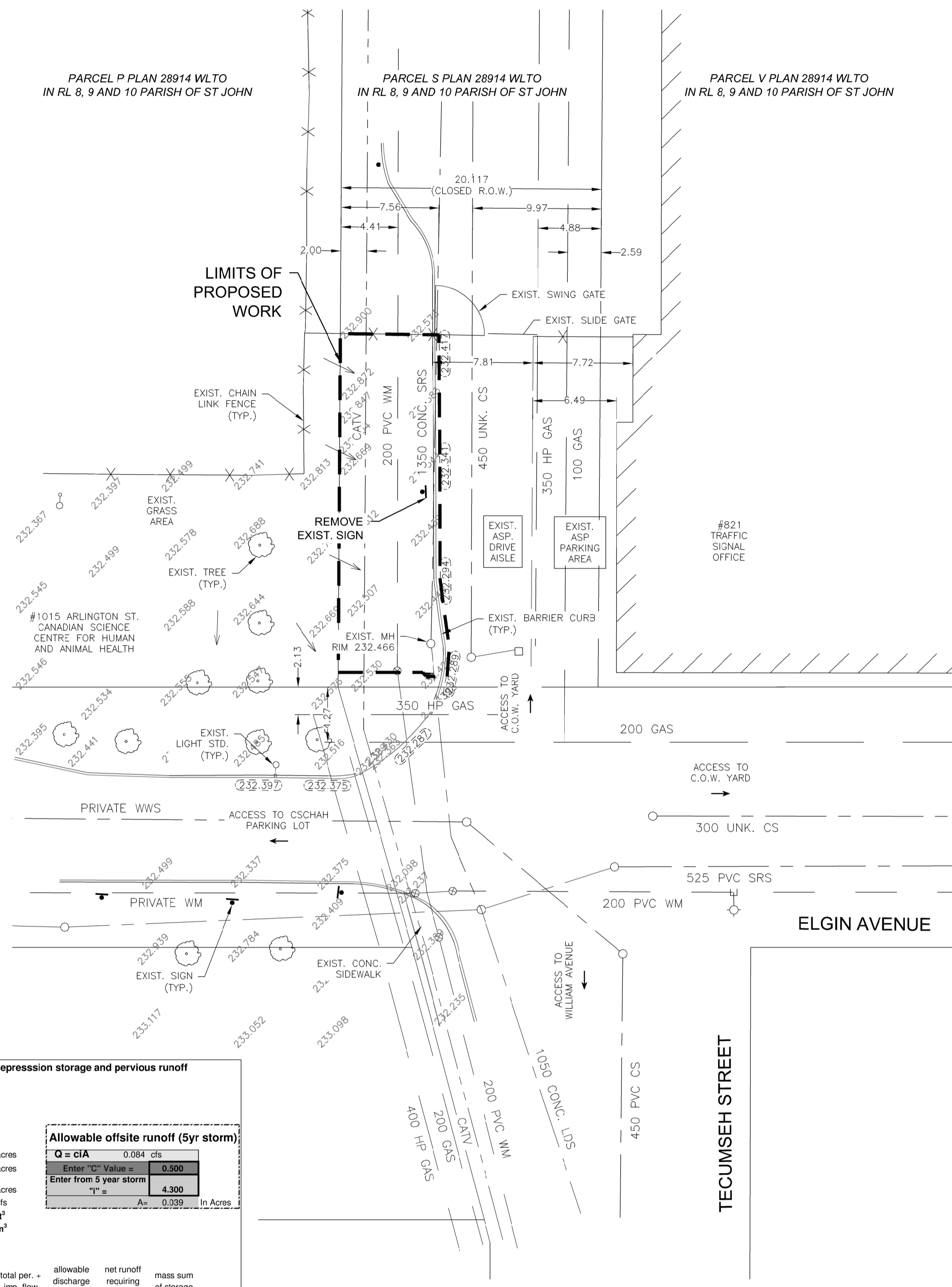
STORM MANAGEMENT CRITERIA

$C_{ALLOWABLE} = 0.50$ (ASSUMED)
 REQUIRED ON-SITE STORAGE = 3 m³ (USING ISOCHRONE METHOD)
 AVAILABLE ON-SITE STORAGE = 0 m³
 STORMWATER TO SPILL INTO EXISTING PARKING LOT

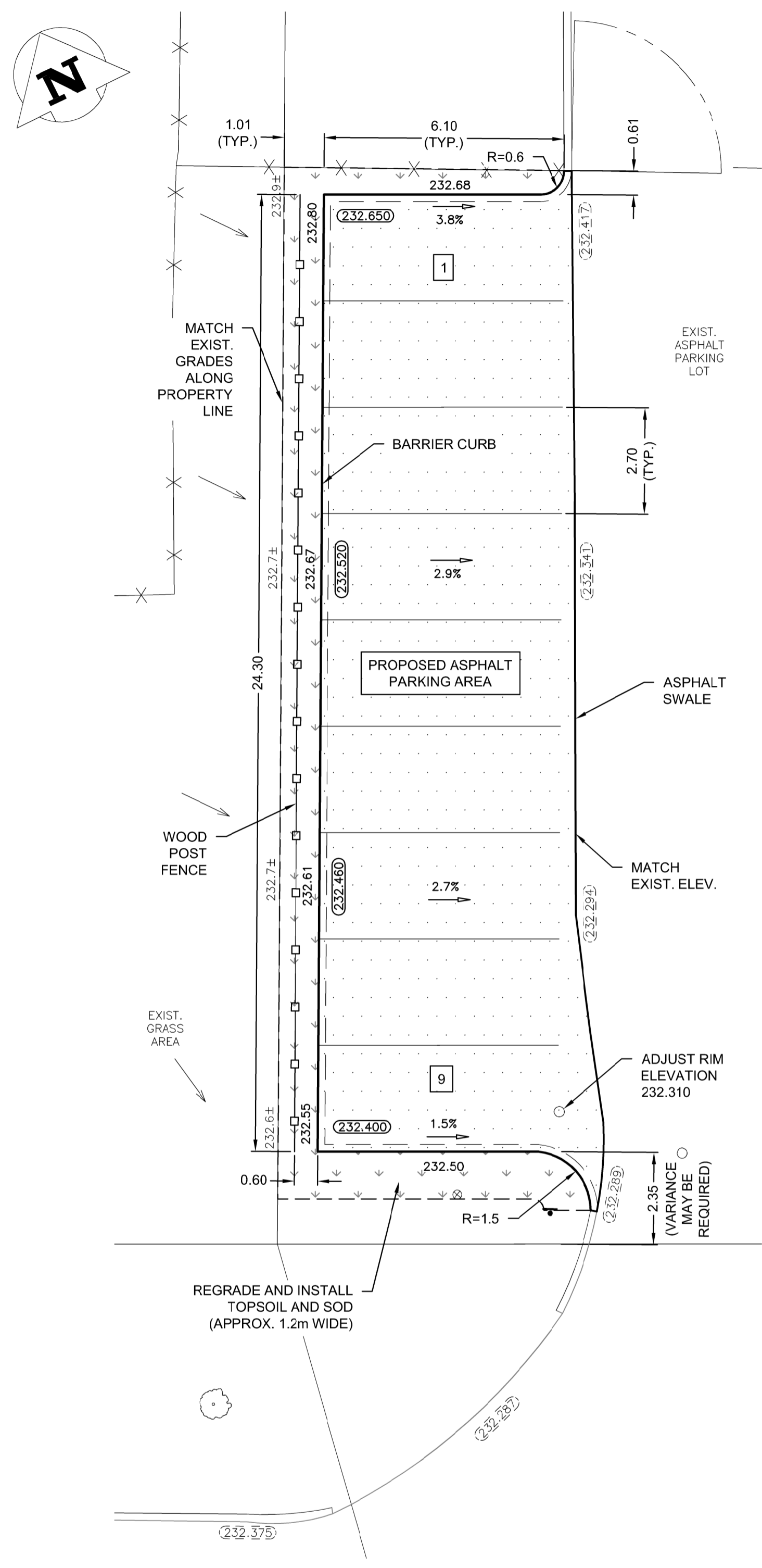
ISOCHRONE METHOD based on calculating impervious runoff based on filling depression storage and pervious runoff based on Horton infiltration equation

PROJECT: C.O.W. TRAFFIC LOCATION: 821 ELGIN AVE. DATE: SEP. 1/15		Allowable offsite runoff (5yr storm)	
i) impervious area, surface storage capacity 0.10		Total Impervious Area 0.04 acres	
Total Pervious Area 0.00 acres		Total Area 0.039 acres	
Total Area 0.039 acres		Allowable runoff 0.08 cfs	
Required Site Storage (ft ³) 99		Required Site Storage (m ³) 3	

City of Wpg 25 yr storm				Pervious Flow Calculation			
Time (min)	rainfall (in/hr)	sum of rainfall depths (in)	impervious runoff (cfs)	infiltration ¹ (in/hr)	intensity after infiltration (in/hr)	pervious runoff (cfs)	total per. + imp. flow (cfs)
0	0.00	0.00	0.00	3.00	0.00	0.00	0.00
5	0.12	0.01	0.00	2.16	0.00	0.00	0.00
10	0.13	0.01	0.00	1.56	0.00	0.00	0.00
15	0.15	0.01	0.00	1.14	0.00	0.00	0.00
20	0.17	0.01	0.00	0.84	0.00	0.00	0.00
25	0.19	0.02	0.00	0.63	0.00	0.00	0.00
30	0.21	0.02	0.00	0.48	0.00	0.00	0.00
35	0.23	0.02	0.00	0.38	0.00	0.00	0.00
40	0.26	0.02	0.00	0.30	0.00	0.00	0.00
45	0.29	0.02	0.00	0.25	0.04	0.00	0.01
50	0.33	0.03	0.00	0.21	0.12	0.00	0.01
55	0.42	0.04	0.00	0.18	0.24	0.00	0.02
60	0.53	0.04	0.00	0.16	0.37	0.00	0.02
65	0.76	0.06	0.00	0.15	0.61	0.00	0.03
70	1.24	0.10	0.00	0.14	1.10	0.00	0.05
75	2.96	0.25	0.00	0.13	2.83	0.00	0.12
80	7.86	0.66	0.00	0.31	7.73	0.00	0.31
85	3.93	0.33	0.00	0.13	3.80	0.00	0.15
90	2.29	0.19	0.00	0.12	2.17	0.00	0.09



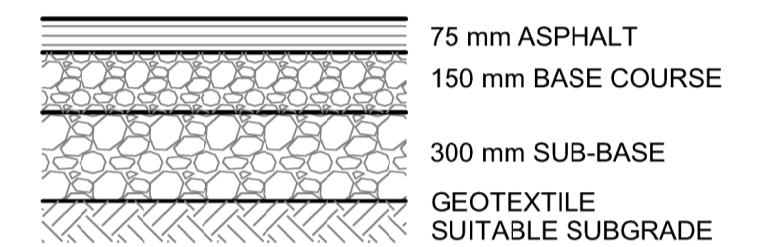
EXISTING SITE / REMOVALS PLAN
1:250



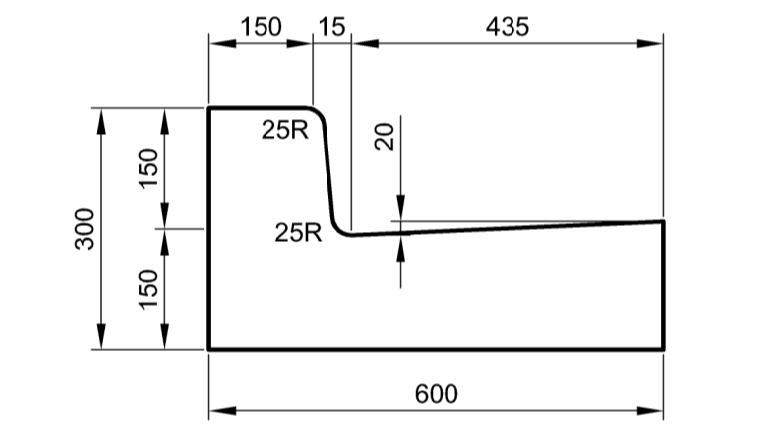
LAYOUT AND GRADING PLAN
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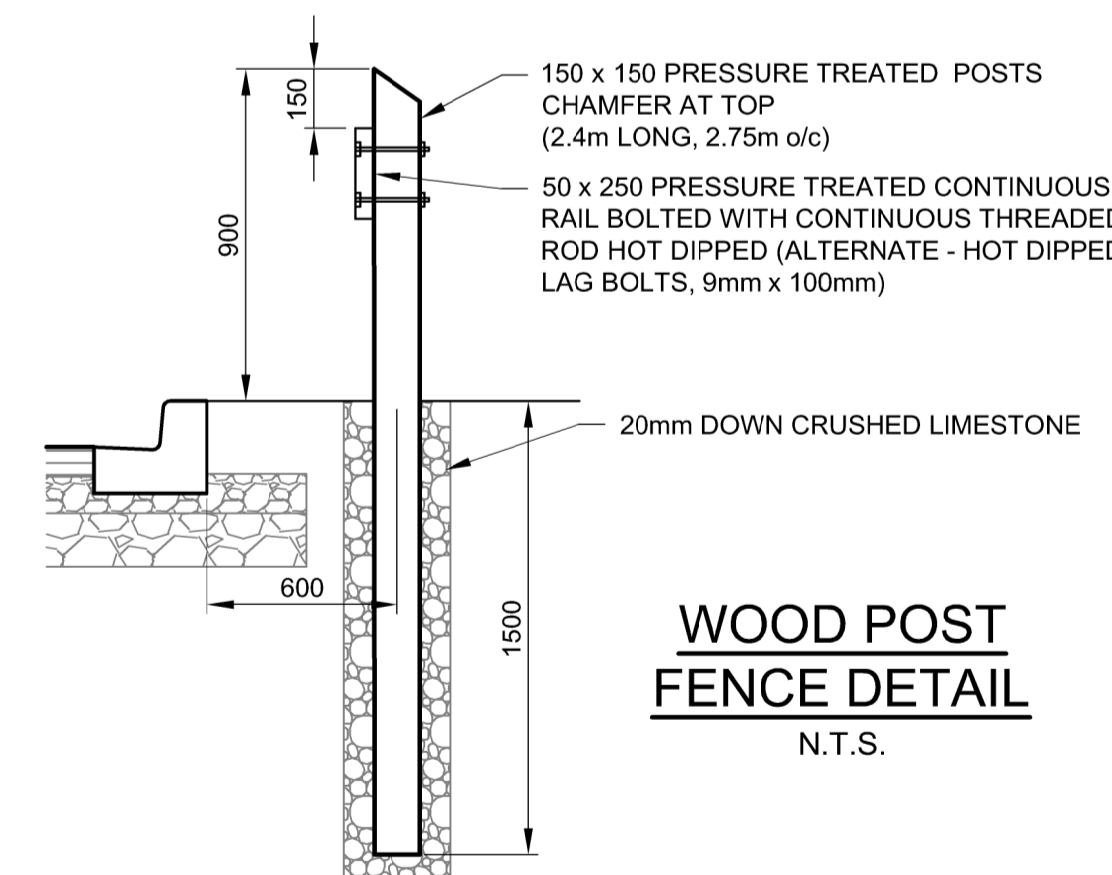
- GENERAL CONSTRUCTION NOTES:**
- ALL CONSTRUCTION AND MATERIALS INCORPORATED IN THE WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF WINNIPEG "STANDARD CONSTRUCTION SPECIFICATIONS", UNLESS NOTED OTHERWISE.
 - LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE, EXACT LOCATION AND DEPTH OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
 - LOCATIONS OF PROPERTY LIMITS AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN DO NOT REPRESENT A LEGAL SURVEY. SBC INC. MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION SHOWN IS ACCURATE, AND ACCEPTS NO RESPONSIBILITY FOR ANY DAMAGES SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 - ALL SURFACES AND ANY EXISTING UTILITIES DAMAGED OR DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER, OR REPLACED, AT THE CONTRACTOR'S EXPENSE.



ASPHALT PAVEMENT STRUCTURE
N.T.S.



BARRIER CURB & GUTTER DETAIL
N.T.S.



WOOD POST FENCE DETAIL
N.T.S.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

150 WM	WATERMAIN	150 WM	+	SURVEY BAR	235.380	GROUND ELEVATION	235.38
250 WWS	WASTEWATER	150 WWS	+	SIGN	235.38	DITCH ELEVATION	235.38
300 LDS	LAND DRAINAGE SEWER	300 LDS	+	UTILITY POLE	235.400	ROAD ELEVATION	235.400
⊕	HYDRANT ASSEMBLY	⊕	⊕	UTILITY PEDESTAL		BARRIER CURB	
⊕	GATE VALVE	⊕	⊕	HYDRO		MOUNTABLE CURB	
⊕	CURB STOP	⊕	⊕	GAS			
⊕	REDUCER	⊕	⊕	MTS			
⊕	MANHOLE	⊕	⊕	TREE LINE			
⊕	CATCH BASIN	⊕	⊕	CULVERT			
⊕	TESTHOLE	⊕	⊕	SWALE			
⊕	PROBEHOLE	⊕	⊕	DIRECTION OF FLOW			
EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

C.W.B.M. 36-009..... 232.501m
 74M639 - TBLT. IN W. WALL OF THE CITY OF WINNIPEG PUBLIC WORKS SHOPS, S.E. COR. OF PACIFIC AVE. & TECUMSEH ST., 0.6m S. OF N.W. COR. OF BLDG.

NO.	REVISIONS	DATE	BY
4	ISSUED FOR BID OPP.	15/12/21	JLT
3	GRADING INFO	15/10/07	JLT
2	ISSUED FOR CONSTRUCTION	15/09/08	JLT
1	C.O.W. STALL REVISIONS	15/09/01	JLT
0	PRELIMINARY DESIGN	15/08/26	JLT

SBC
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ENGINEER'S SEAL

DRAWING ORIGINALLY SEALED BY: R. CABIGTING AND DATED: SEPTEMBER 8, 2015

CONSULTANT DRAWING NO. 15119-C01

DESIGNED BY JLT
CHECKED BY RC
DRAWN BY JLT
APPROVED BY RC
HOR. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
DATE: AUGUST, 2015

Winnipeg THE CITY OF WINNIPEG

TRAFFIC MANAGEMENT CENTRE PARKING ADDITION - 827 ELGIN AVENUE

SITE PLAN