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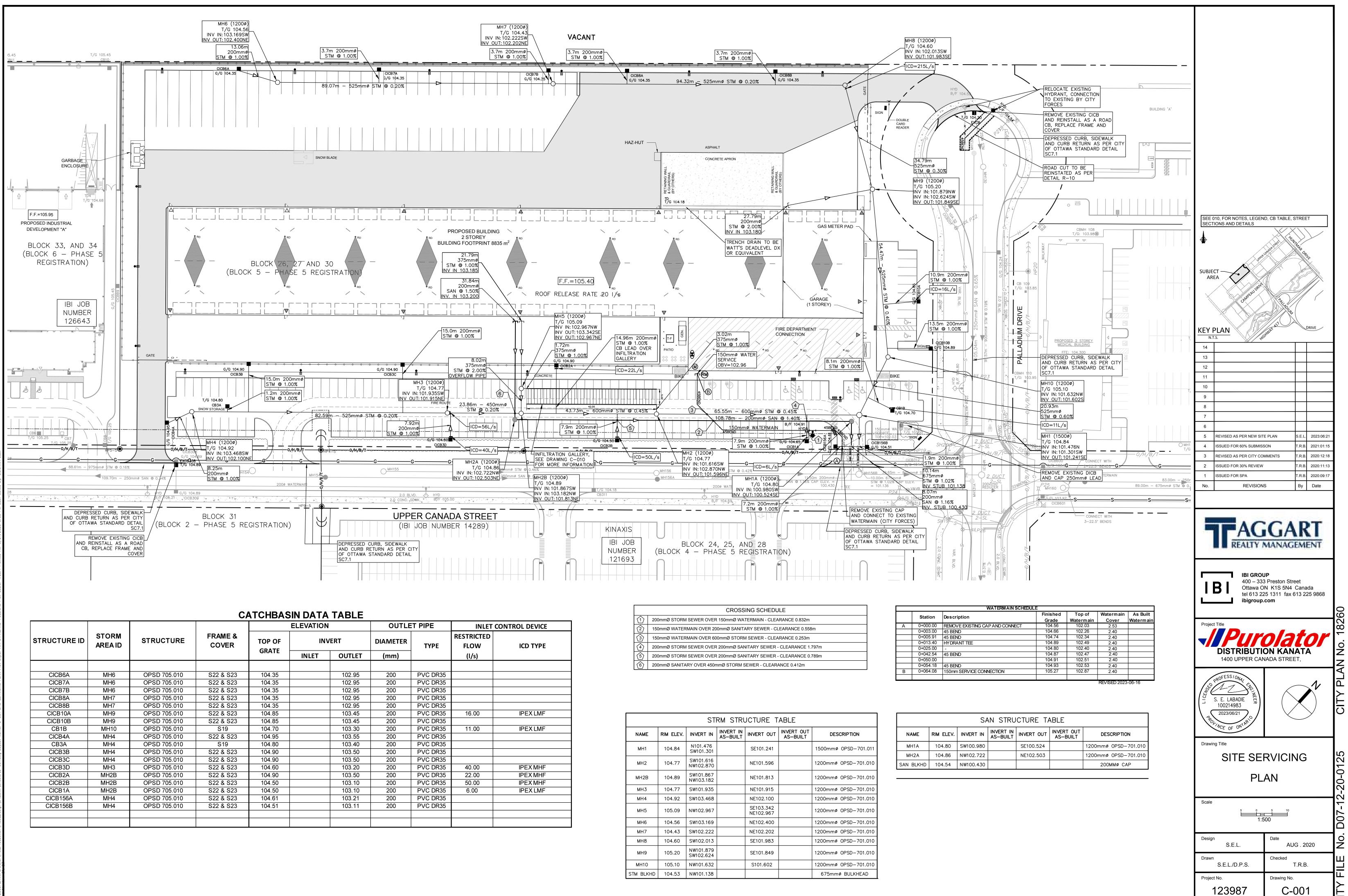
SUBJECT AREA KEYPLAN N.T.S.



CONTRACT NO. 123987

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<u>-AN - 2023-06-21</u> CITY PLAN No. 18260 REVISED AS PER NEW SITE P CITY FILE No. D07-12-20-0125



STRUCTURE ID AREA ID STRUCTURE FRAME & COVER TOP OF GRATE INVET DIAMETER TYPE RESTRICTED FLOW (I/s) ICD TYPE CICB6A MH6 OPSD 705.010 \$22 & \$23 104.35 102.95 200 PVC DR35						ELEVATION		OUTLE	OUTLET PIPE		NTROL DEVICE
Image: Note of the second se	STRUCTURE ID		STRUCTURE			INV	ERT	DIAMETER	AMETER TYPE		ICD TYPE
CICB7A MH6 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB7B MH6 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB8A MH7 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB8B MH7 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB8B MH7 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 16.00 IPEX LMF CICB10A MH9 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 16.00 IPEX LMF CICB10B MH9 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 11.00 IPEX LMF CICB4A MH4 OPSD 705.010 S19 104.70 103.30 200 PVC DR35 11.00 IPEX LMF CICB3B MH4 OPSD 705.010 S22 & S23 1					GRATE	INLET	OUTLET	(mm)		(I/s)	
CICB7A MH6 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB7B MH6 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB8A MH7 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB8B MH7 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 CICB8B MH7 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 1 CICB10A MH9 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 1 CICB10B MH9 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 1 CICB10A MH4 OPSD 705.010 S19 104.70 103.30 200 PVC DR35 1 CICB3A MH4 OPSD 705.010 S19 104.80 103.40 200 PVC DR35 1	CICB64	МН6		S22 & S23	104 35		102.95	200			
CICB7B MH6 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 PVC DR35 CICB8A MH7 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 PVC DR35 CICB8B MH7 OPSD 705.010 S22 & S23 104.35 102.95 200 PVC DR35 PVC DR35 CICB10A MH9 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 16.00 IPEX LMF CICB10B MH9 OPSD 705.010 S22 & S23 104.85 103.45 200 PVC DR35 11.00 IPEX LMF CICB10B MH10 OPSD 705.010 S19 104.70 103.30 200 PVC DR35 11.00 IPEX LMF CICB4A MH4 OPSD 705.010 S19 104.95 103.55 200 PVC DR35 11.00 IPEX LMF CICB3A MH4 OPSD 705.010 S19 104.80 103.40 200 PVC DR35 11.00 IPEX LMF <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>											
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CICB4AMH4OPSD 705.010S22 & S23104.95103.55200PVC DR35Image: constraint of the system of the syst	CICB10B	MH9	OPSD 705.010	S22 & S23	104.85		103.45	200	PVC DR35		
CB3AMH4OPSD 705.010S19104.80103.40200PVC DR35Image: constraint of the system of th	CB1B	MH10	OPSD 705.010	S19	104.70		103.30	200	PVC DR35	11.00	IPEX LMF
CICB3BMH4OPSD 705.010S22 & S23104.90103.50200PVC DR35CICB3CMH4OPSD 705.010S22 & S23104.90103.50200PVC DR35CICB3DMH3OPSD 705.010S22 & S23104.60103.20200PVC DR3540.00IPEX MHFCICB2AMH2BOPSD 705.010S22 & S23104.90103.50200PVC DR3522.00IPEX MHFCICB2BMH2BOPSD 705.010S22 & S23104.50103.10200PVC DR3550.00IPEX MHFCICB1AMH2BOPSD 705.010S22 & S23104.50103.10200PVC DR356.00IPEX MHFCICB156AMH4OPSD 705.010S22 & S23104.61103.21200PVC DR356.00IPEX LMF	CICB4A	MH4	OPSD 705.010	S22 & S23	104.95		103.55	200	PVC DR35		
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CICB2A MH2B OPSD 705.010 S22 & S23 104.90 103.50 200 PVC DR35 22.00 IPEX MHF CICB2B MH2B OPSD 705.010 S22 & S23 104.50 103.10 200 PVC DR35 50.00 IPEX MHF CICB1A MH2B OPSD 705.010 S22 & S23 104.50 103.10 200 PVC DR35 6.00 IPEX MHF CICB1A MH2B OPSD 705.010 S22 & S23 104.50 103.10 200 PVC DR35 6.00 IPEX LMF CICB156A MH4 OPSD 705.010 S22 & S23 104.61 103.21 200 PVC DR35 6.00 IPEX LMF	CICB3C	MH4	OPSD 705.010	S22 & S23	104.90		103.50	200	PVC DR35		
CICB2B MH2B OPSD 705.010 S22 & S23 104.50 103.10 200 PVC DR35 50.00 IPEX MHF CICB1A MH2B OPSD 705.010 S22 & S23 104.50 103.10 200 PVC DR35 50.00 IPEX MHF CICB156A MH4 OPSD 705.010 S22 & S23 104.61 103.21 200 PVC DR35 6.00 IPEX LMF	CICB3D	MH3	OPSD 705.010	S22 & S23	104.60		103.20	200	PVC DR35	40.00	IPEX MHF
CICB1A MH2B OPSD 705.010 S22 & S23 104.50 103.10 200 PVC DR35 6.00 IPEX LMF CICB156A MH4 OPSD 705.010 S22 & S23 104.61 103.21 200 PVC DR35 6.00 IPEX LMF	CICB2A	MH2B	OPSD 705.010	S22 & S23	104.90		103.50	200	PVC DR35	22.00	IPEX MHF
CICB156A MH4 OPSD 705.010 S22 & S23 104.61 103.21 200 PVC DR35	CICB2B	MH2B	OPSD 705.010	S22 & S23	104.50		103.10	200	PVC DR35	50.00	IPEX MHF
	CICB1A	MH2B	OPSD 705.010	S22 & S23	104.50		103.10	200	PVC DR35	6.00	IPEX LMF
CICB156B MH4 OPSD 705.010 S22 & S23 104.51 103.11 200 PVC DR35	CICB156A	MH4	OPSD 705.010	S22 & S23	104.61		103.21	200	PVC DR35		
	CICB156B	MH4	OPSD 705.010	S22 & S23	104.51		103.11	200	PVC DR35		

	CROSSING SCHEDULE
(1)	200mmØ STORM SEWER OVER 150mmØ WATERMAIN - CLEARANCE 0.832m
2	150mmØ WATERMAIN OVER 200mmØ SANITARY SEWER - CLEARANCE 0.558m
3	150mmØ WATERMAIN OVER 600mmØ STORM SEWER - CLEARANCE 0.253m
$\langle 4 \rangle$	200mmØ STORM SEWER OVER 200mmØ SANITARY SEWER - CLEARANCE 1.797m
5	200mmØ STORM SEWER OVER 200mmØ SANITARY SEWER - CLEARANCE 0.789m
6	200mmØ SANITARY OVER 450mmØ STORM SEWER - CLEARANCE 0.412m

		ST	RM STRI	JCTURE T	ABLE	
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
MH1	104.84	N101.476 SW101.301		SE101.241		1500mmø OPSD-701.011
MH2	104.77	SW101.616 NW102.870		NE101.596		1200mmø OPSD-701.010
MH2B	104.89	SW101.867 NW103.182		NE101.813		1200mmø OPSD-701.010
MH3	104.77	SW101.935		NE101.915		1200mmø OPSD-701.010
MH4	104.92	SW103.468		NE102.100		1200mmø OPSD-701.010
MH5	105.09	NW102.967		SE103.342 NE102.967		1200mmø OPSD-701.010
MH6	104.56	SW103.169		NE102.400		1200mmø OPSD-701.010
MH7	104.43	SW102.222		NE102.202		1200mmø OPSD-701.010
MH8	104.60	SW102.013		SE101.983		1200mmø OPSD-701.010
МН9	105.20	NW101.879 SW102.624		SE101.849		1200mmø OPSD-701.010
MH10	105.10	NW101.632		S101.602		1200mmø OPSD-701.010
STM BLKHD	104.53	NW101.138				675mmø BULKHEAD

	St
А	0+
	0+
	0+
	0+
	0+
	0+
	0+
	0+
В	0+

NAME
MH1A
MH2A
SAN BLKH

 \sim ∞ No. Z CH 25

	<u>EGEND</u>	SERVICING L
	TRANSFORMER	• MH118A
	TRANSFORMER C/W CONCRETE WINGS	200mmø SAN
HSG	HYDRO SWITCHGEAR	^{МН109} О МН118
НМН	HYDRO MANHOLE	825mmø STM
۲	BELL PEDESTAL	900mmø STM
GLB	BELL GRADE LEVEL BOX (I=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement	200ø WATERMAIN
FC	BELL FIBER CABINET (I=1200mm, w=750mm, d=500mm)	■ CB100 T/G 104.10
CSP	BELL CENTRAL SPLITTING POINTS (I=1175mm, w=1200mm, d=500mm)	CICB101
	ROGERS PEDESTAL	UCB100 T/G 104.10
$\overline{\mathbf{X}}$	ROGERS VAULT (I=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement	DCICB101
30 ⁰	STREET LIGHT	G/G 104.25 CBMH100
50 D	STREET LIGHT DISCONNECT	T/G 103.59 <u>CBMH101</u> T/G 103.59
	STREET LIGHT GROUNDING	HO ^{MH109}
, I/B/T/G/S——	JOINT UTILITY TRENCH	■ RYCB T/G 104.35
— Н	HYDRO CABLE AND DUCTS	
—-В	BELL CABLE	− <mark>− T</mark> /G 104.35 NV 103.35
BB	BELL DUCTS	T/G 104.50 GINV 103.50
—т	ROGERS CABLE	⁰ INV 103.50
—тт	ROGERS DUCTS	LT/G 104.35 INV 103.35
—G	GAS	l T∕G 104.35
s	STREET LIGHT CABLE	LT/G 104.35 INV 103.35
	UTILITY DROP LOCATIONS	
10-DUCTS		⊗ V&VB
6–H 4–T	CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS	® ^{v&vc}
CMB	COMMUNITY MAILBOX	HYD 104.35
	PROPOSED TREE LOCATION	

SEDIMENT EROSION LEGEND

ROOT MANAGEMENT BARRIER

	HEAVY DUTY SILT FENCE
	SNOW FENCE
æ	STRAW BALE CHECK DAM
50000 00088, 50500 81508 0000	STRAW BALE CHECK DAM WITH FILTER CLOTH
	ROCK CHECK DAM
	SEDIMENT SACK PLACED UNDER EXISTING CB COVER
	TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

GENERAL LEGEND

	LIM
	PH/
	BAF
	МО
	DE
	CO
	– TAC
	ASI
BUS	BUS

IMIT OF CONSTRUCTION HASING LINE ARRIER CURB OUNTABLE CURB EPRESSED BARRIER CURB ONCRETE SIDEWALK ACTILE WALKING SURFACE INDICATOR SPHALT SIDEWALK / PATHWAY BUS STOP CONCRETE / ASPHALT

HEAVY DUTY ASPHALT

PAVEMENT STRUCTURE:

LIGHT DUTY - CAR PARK AREAS

- WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 50mm - BASE - OPSS GRANULAR "A" CRUSHED STONE 150mm - SUBBASE - OPSS GRANULAR "B" TYPE II 300mm

HEAVY DUTY - TRUCK AREAS

40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE - SUPERPAVE 19.0 ASPHALTIC CONCRETE 50mm - OPSS GRANULAR "A" CRUSHED STONE 150mm 450mm - OPSS GRANULAR "B" TYPE II

$\rightarrow \rightarrow \rightarrow$	PRC
	PRC
1.3%	SLO
	MAJ
×104.62	PRC
×104.40 (\$)	PRC
×104.50 (S)нР	PRC
104.60 103.59×	LOT
86.45 EX ×	TIE
	FUL
< 405.40	
103.50	RET
بليليليك	TER
	PRE

GEND

NITARY MANHOLE

- NITARY SEWER
- ORM MANHOLE
- ORM SEWER LESS THAN 900Ø ORM SEWER - 900Ø AND GREATER
- TERMAIN
- REET CATCHBASIN C/W TOP OF GRATE
- RB INLET CATCHBASIN C/W GUTTER GRADE
- UBLE CATCHBASIN C/W TOP OF GRATE
- CH INLET CATCHBASIN C/W GUTTER GRADE
- TCHBASIN MANHOLE C/W TOP OF GRATE CH INLET MANHOLE C/W TOP OF GRATE
- LOCATION

AR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE SOLID GRATE

AR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE

D INVERT OUT AR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE

D INVERT OUT AR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF

ATE AND INVERT OUT AR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF

ATE AND INVERT OUT RFORATED REAR YARD SUBDRAIN

P CULVERT C/W DIAMETER LVE AND VALVE BOX

LVE AND VALVE CHAMBER

E HYDRANT C/W BOTTOM OF FLANGE ELEVATION TERMAIN REDUCER

GRADING LEGEND

OPOSED SWALE C/W FLOW DIRECTION

OPOSED DITCH C/W FLOW DIRECTION AND SLOPE OPE C/W FLOW DIRECTION

JOR OVERLAND FLOW ROUTE

OPOSED SPOT GRADE

OPOSED SWALE GRADE

OPOSED SWALE HIGH POINT GRADE T CORNER GRADE C/W EXISTING GRADE

INTO EXISTING GRADE

LL STATIC PONDING GRADE

TAINING WALL C/W TOP OF WALL AND GRASS GRADE RRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE ESSURE REDUCING VALVE

1.0 GENERAL	
1.1 CONTRACTO	R TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
1.2 DO NOT SCAI	E DRAWINGS.
1.3 CONTRACTO ENGINEER AS AF	R TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN PPLICABLE.
1.4 USE ONLY TH	E LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
I.5 ALL CONSTRU	JCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
I.6 THIS DRAWIN	G SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.
1.7 FOR LEGAL S	URVEY INFORMATION REFER TO REGISTERED PLAN.
I.8 REFER TO SI	TE PLAN BY N45 ARCHITECTURE.
SEDIMENT CONT (FILLING, GRADII) THE MEASURES THE BEST MANA REQUIRED TO AI OTTAWA. SUCH // MANHOLE AND C	OR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND IROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS NG, REMOVAL OF VEGETATION, ETC.). DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH GEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE DORESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF FILTER CLOTHS ACROSS IS ATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND IF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
1.10 ALL IRON W THE ENGINEER.	ORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY
	ETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS. ALL ONSITE ARRIER TYPE, WITH DEPRESSIONS AS NOTED.
	ETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A GTH OF 30MPa AT 28 DAYS.
1.13 ALL CONSTR	RUCTION TRAFFIC TO ACCESS SITE FROM PALLADIUM DRIVE OR UPPER CANADA STREET.
I.14 FOR GEOTE	CHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PG4783-1 FEB 7, 2019 BY PATERSON GROUP.
CURBS, ASPHAL	OR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, T, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE Y DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.
UTILITIES AND S ACCURACY OF T CONTRACTOR S	ON OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND TRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE HE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE HALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL TRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
	OR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.
ALL EXCESS MA	OR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. IERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR IAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE OD/LOCATION.
	AL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
	CTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE TED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.
I.21 ALL DISTUR	BED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL.
1.22 UTILITY DUC	TS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.
	TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
2.0 SANITARY	
	Y SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER D AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE:

2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE

CLOSED COVER TYPE, AS PER CITY STANDARD S24.

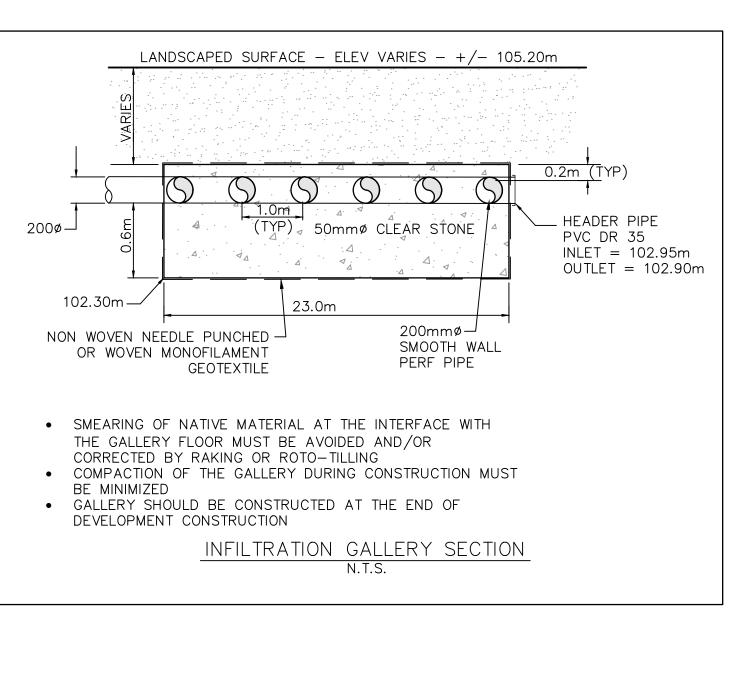
2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT

2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m 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 SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE : 375mmØ AND SMALLER - PVC DR 35, 450mmØ AND LARGER - CONC. CL. 100-D, 825mmØ AND LARGER - CONC. CL. 65-D



3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA
STANDARDS COMPLETE WITH BENCHING, RUNGS, DROP PIPES AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24, FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.

3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP. 3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S19.1.

3.6 ANY STORM SEWER WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

3.7 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. 3.8 CONTRACTOR TO PROVIDE IPEX-TEMPEST HF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.

4.0 WATER 4.1 ALL WATERMAINS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4M AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 200MMØ.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 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. 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

CITY OF OTTAWA STANDARDS.

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4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARDS.

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, 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 INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

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 CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. 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 PROOFROLLING, 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 GEOETCHNICAL 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 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 GEOETCHNICAL 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 DITCHES DISTURBED DURING CULVERT INSTALLATION AND GRADING OPERATIONS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION AND FLOWLINE GRADES

5.12 ALL 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. 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.



SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET

SECTIONS AND DETAILS

SUBJECT

AREA

