

EROSION AND SEDIMENT CONTROL MEASURES:

**** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES ****

***** THE SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY *****

1. PRIOR TO START OF CONSTRUCTION:

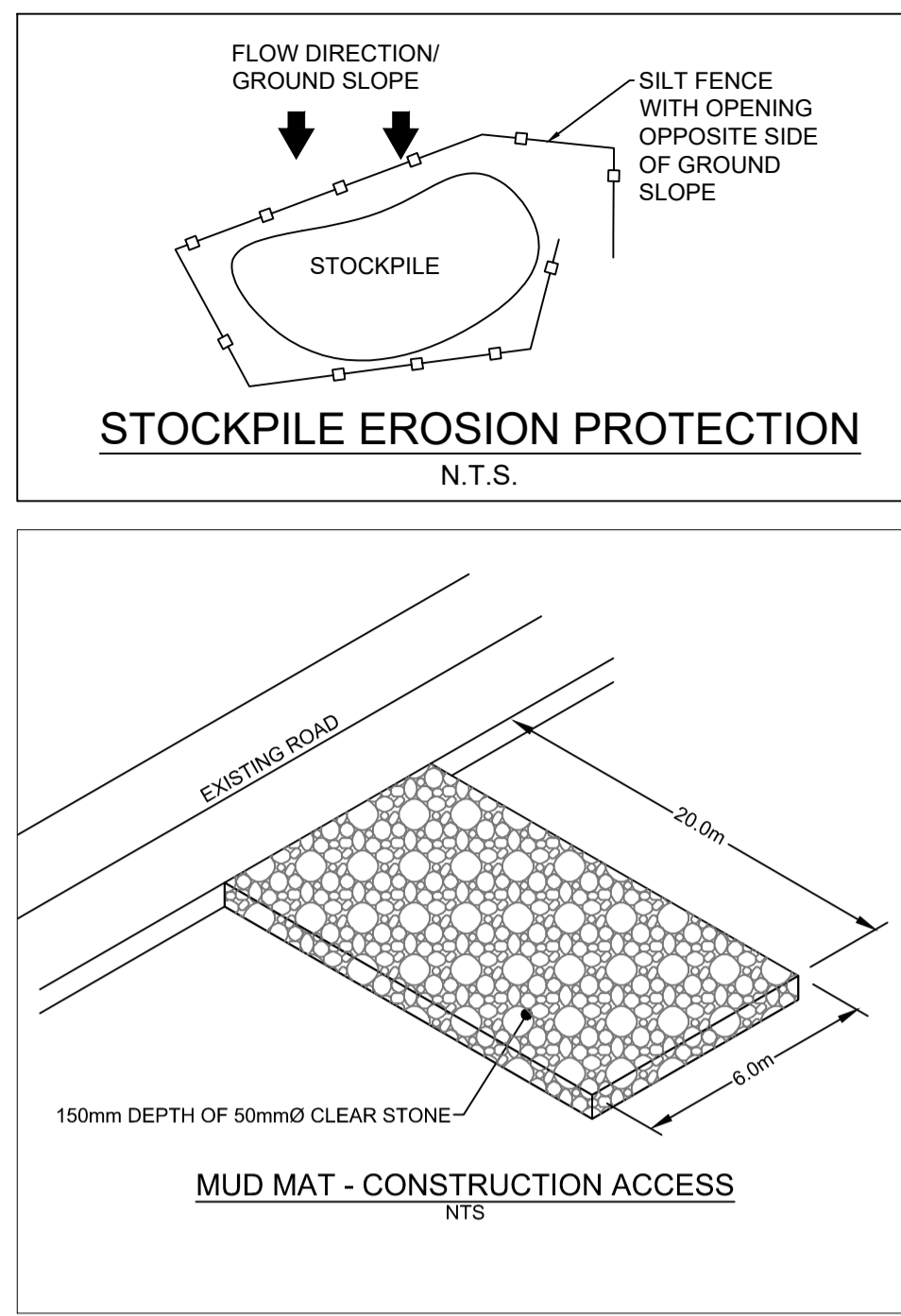
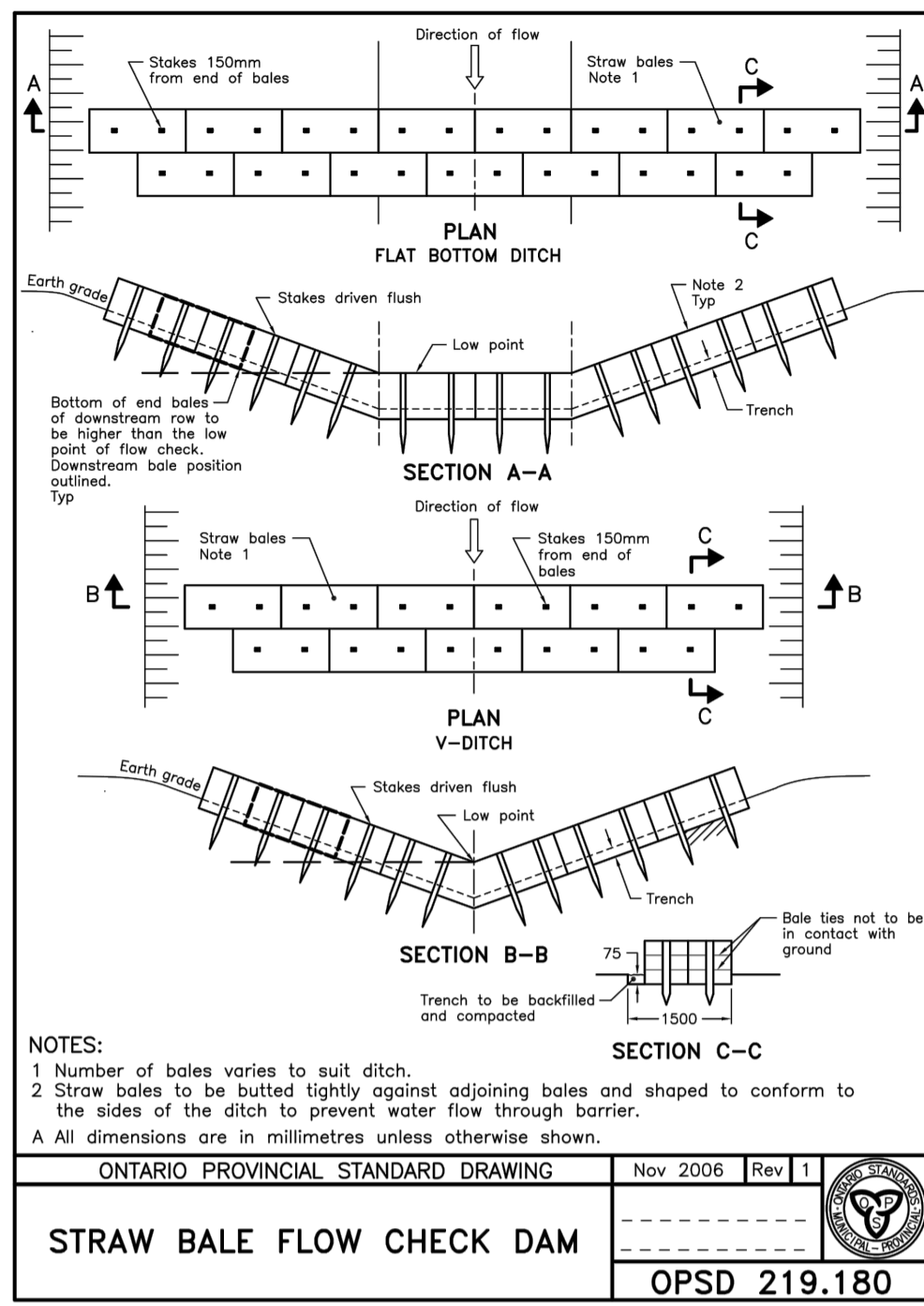
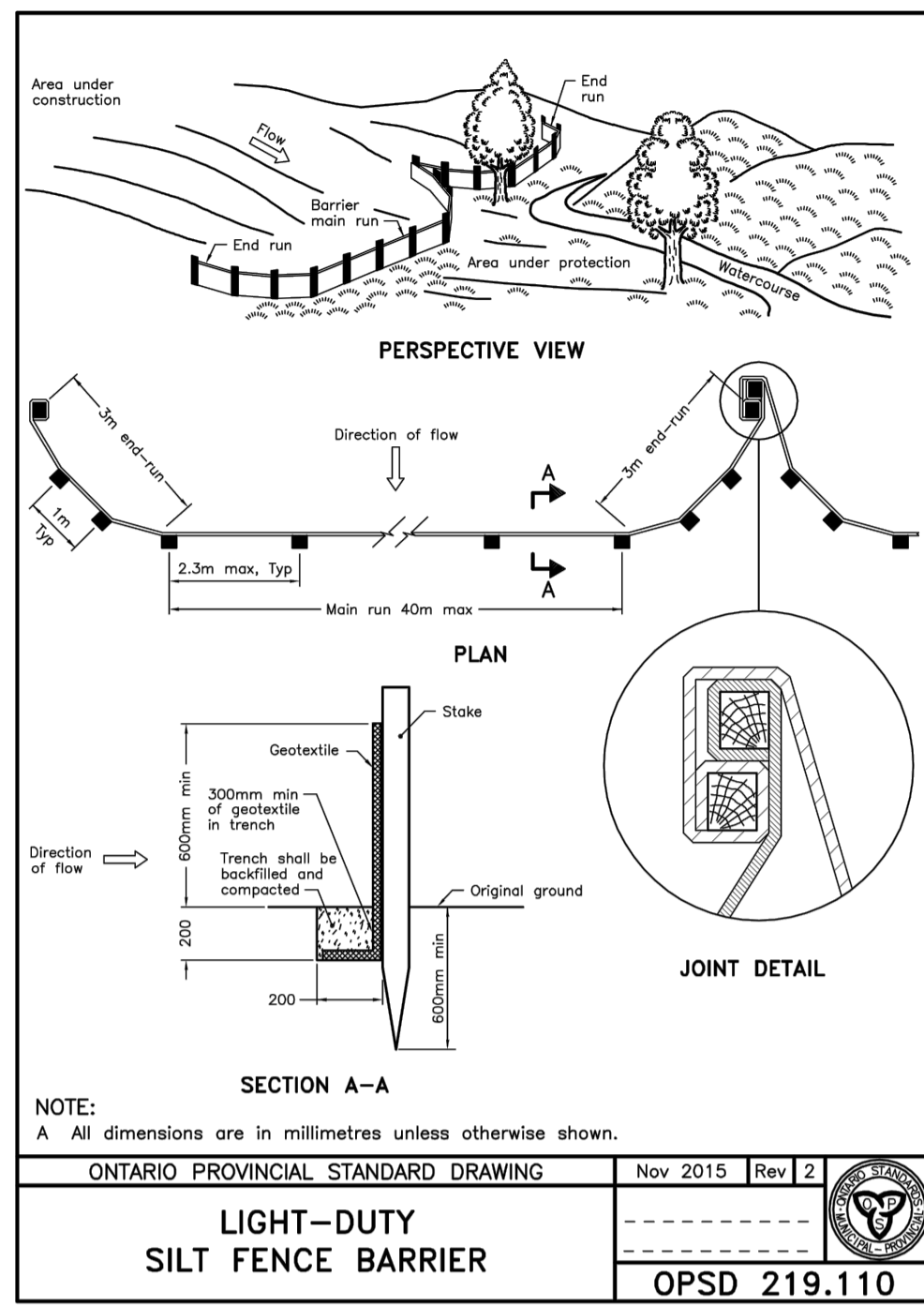
- PRIOR TO THE REMOVAL OF ANY VEGETATIVE COVER, MOVING OF SOIL AND CONSTRUCTION:
- INSTALL SILT FENCE IMMEDIATELY DOWNSTREAM FROM AREAS TO BE DISTURBED (SEE PLAN FOR LOCATION).
- INSTALL GEOSOCK INSERTS WITH AN OVERFLOW IN ALL THE DOWNSTREAM CATCHBASINS AND MANHOLES
- INSTALL SILT SOCK FILTERS IN ALL CONCRETE CATCH BASIN STRUCTURES
- INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

2. DURING CONSTRUCTION:

- WORK TO BE DONE IN THE VICINITY OF MAJOR WATERWAYS TO BE CARRIED OUT FROM JULY TO SEPTEMBER ONLY.
- MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE.
- PROTECT DISTURBED AREAS FROM RUNOFF.
- PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
- INSPECT SILT FENCES, FILTER CLOTHS AND CATCH BASIN SUMPS WEEKLY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
- CONSTRUCT SWALES AS PER DETAIL.
- PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION
- EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
- DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE FENCE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
- CONTROL WIND-BLOWN DUST OFF SITE TO ACCEPTABLE LEVELS BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED).
- ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
- NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THIS CONSULTING ENGINEER AND THE CITY DEPARTMENT OF PUBLIC WORKS.
- CONTRACTOR RESPONSIBLE FOR CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
- PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PREVENT MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 15m LONG, 4M WIDE AND 0.3m DEEP AND SHALL CONSIST OF COARSE (50mm CRUSHER-RUN LIMESTONE) MATERIAL. MAINTAIN GRAVEL ENTRANCE IN CLEAN CONDITION.
- DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
- ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
- TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.

3. AFTER CONSTRUCTION:

- PROVIDE PERMANENT COVER CONSISTING OF TOPSOIL AND SEED TO DISTURBED AREAS.
- REMOVE STRAW BALE FLOW CHECK DAMS, SILT FENCES AND FILTER CLOTHS ON CATCH BASINS AND MANHOLE COVERS AFTER DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED.
- INSPECT AND CLEAN CATCH BASIN SUMPS AND STORM SEWERS.



LEGEND:

	EXISTING PROPERTY LINE
	PROPOSED CURB
	PROPOSED DEPRESSED CURB
	PROPOSED TERRACING (3:1 MAX.)
	PROPOSED SILT FENCE AS PER OPSD 219.110
	PROPOSED STRAW BALE CHECK DAM AS PER OPSD 219.180
	PROPOSED DOOR ENTRANCE/EXIT
	PROPOSED LANDSCAPED AREA
	PROPOSED CONCRETE FEATURES/SLAB
	PROPOSED HEAVY-DUTY ASPHALT
	PROPOSED LIGHT-DUTY ASPHALT
	PROPOSED RIP RAP
	PROPOSED ELEVATION
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	EXISTING MANHOLE
	EXISTING CATCHBASIN
	PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
	PROPOSED S3C300
	PROPOSED CURB STOP
	PROPOSED PIPE INSULATION
	PROPOSED 20m SETBACK
	PROPOSED 100 YEAR HIGH WATER LEVEL
	STORM WATERSHED EXTENT
	WATERSHED NAME
	RUNOFF COEFFICIENT
	AREA IN HECTARES

USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE THE SCOPE AND INTENT OF THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING THE CONTRACT DOCUMENTS AND UNDERSTANDING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING THE CONTRACT DOCUMENTS AND UNDERSTANDING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING THE CONTRACT DOCUMENTS AND UNDERSTANDING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER CONFIRMS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS. THE CONTRACTOR CONFIRMS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

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UNAUTHORIZED CHANGES:

IN THE EVENT THE CLIENT, THE CLIENT'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE CLIENT IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY LRI ASSOCIATES LTD. (LRI) WITHOUT OBTAINING LRI'S PRIOR WRITTEN CONSENT, THE CLIENT SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE CLIENT AGREES TO WAIVE ANY CLAIM AGAINST LRI AND TO RELEASE LRI FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

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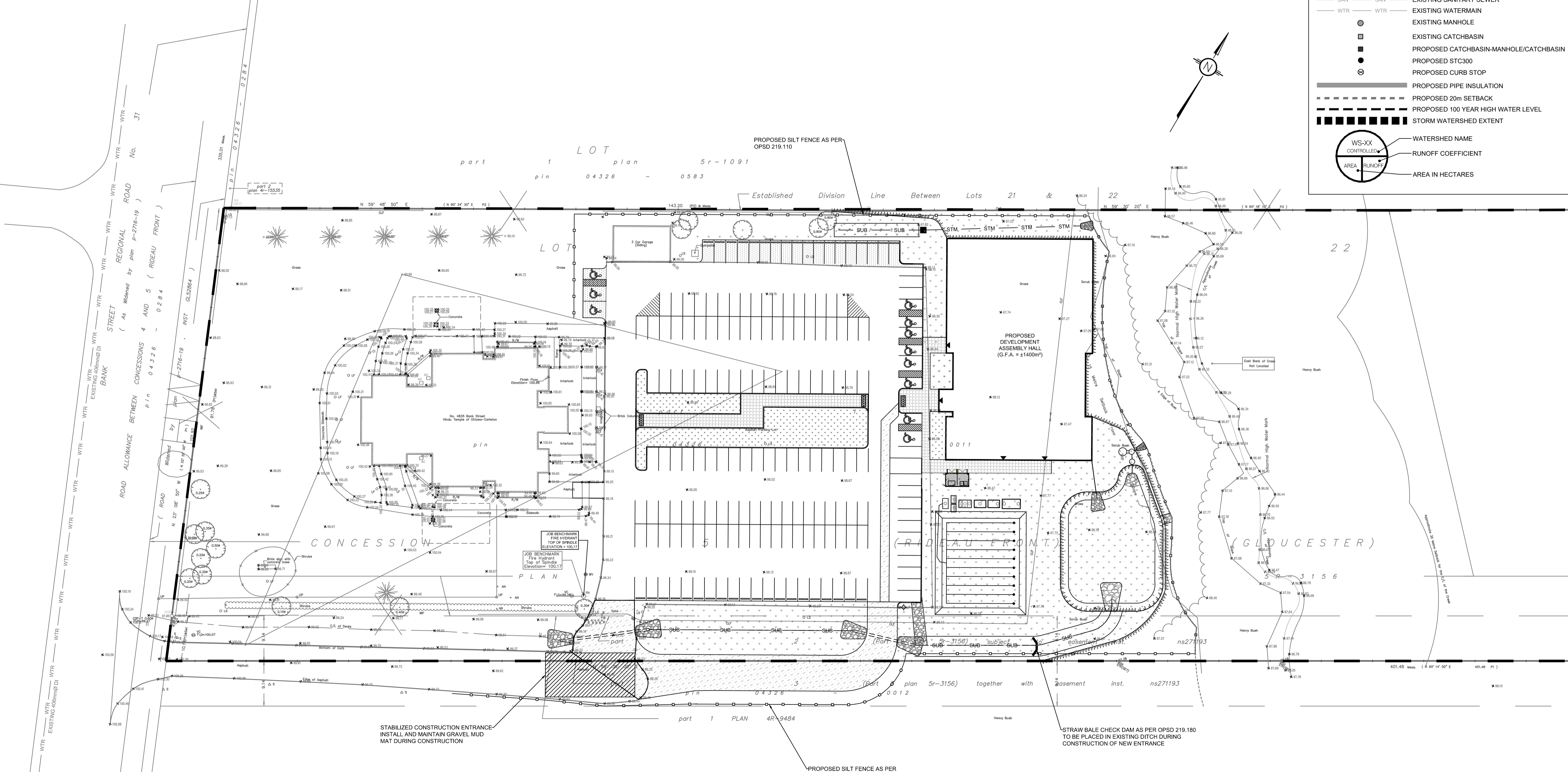
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CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.

SCALE: 1:500

04	RE-ISSUED FOR SITE PLAN APPLICATION	K.H.	22 SEPT 2021
03	RE-ISSUED FOR SITE PLAN APPLICATION	K.H.	23 DEC 2020
02	ISSUED FOR CLIENT REVIEW	K.H.	11 DEC 2020
01	ISSUED FOR CLIENT APPROVAL	K.H.	11 MAR 2020



PROPOSED ASSEMBLY HALL
4835 BANK STREET, OTTAWA

EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO: 170132
DATE: JAN2020

DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

CLIENT: THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON

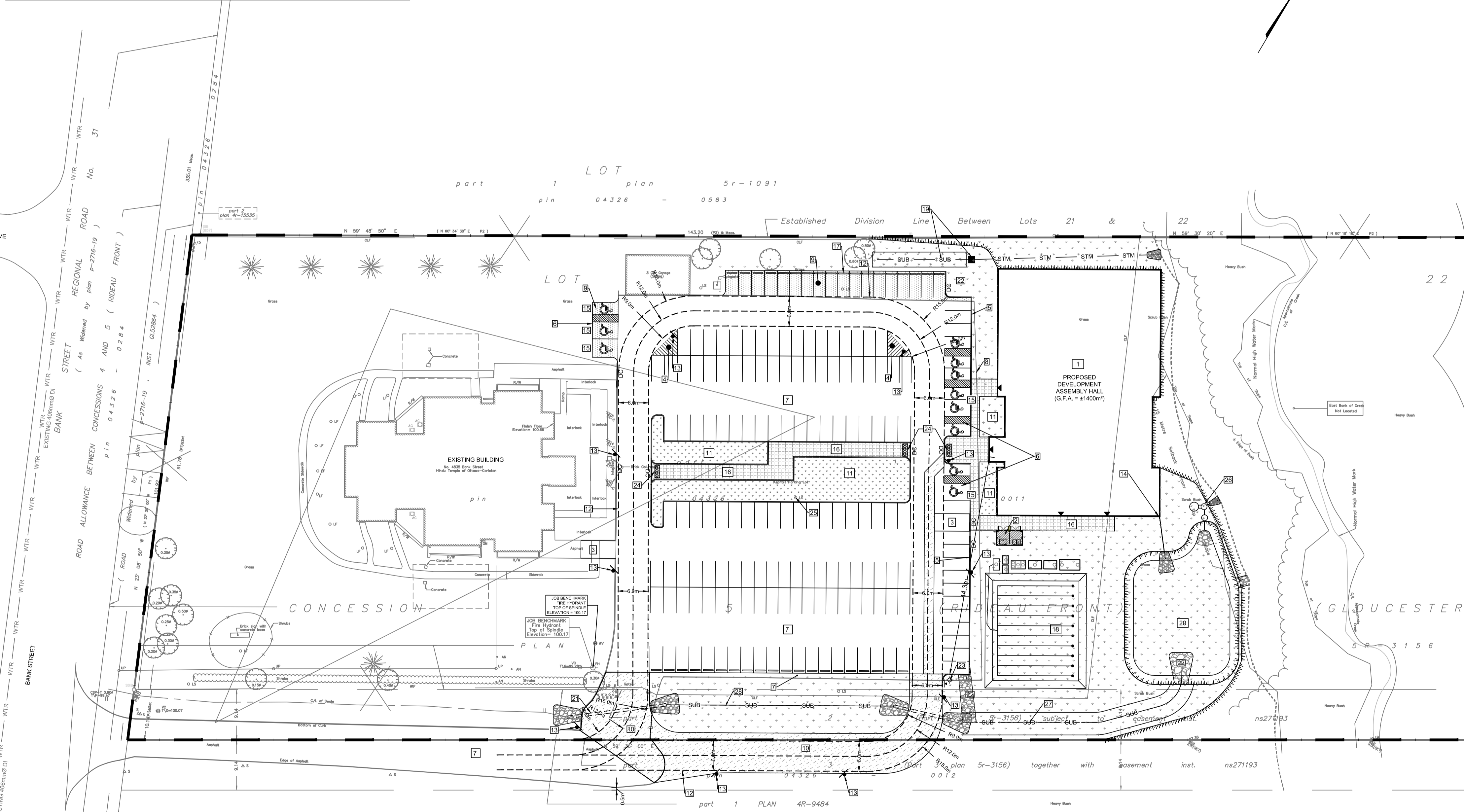
NOT AUTHENTIC UNLESS SIGNED AND DATED

LRI
ENGINEERING | INGÉNIERIE
5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lri.ca | (613) 842-3434

C101



KEY PLAN
N.T.S.



LEGEND:

- EXISTING PROPERTY LINE
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- PROPOSED SILT FENCE AS PER OPSD 219.110
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- EXISTING ELEVATION
- PROPOSED OVERLAND MAJOR FLOW ROUTE
- PROPOSED 100mmØ PERFORATED SUBDRAIN
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- STORM WATERSHED EXTENT
- WATERSHED NAME
- RUNOFF COEFFICIENT
- AREA IN HECTARES

SITE PLAN NOTES:

1. PROPOSED DEVELOPMENT
2. PROPOSED GARBAGE / WASTE CONTAINERS LOCATION (REFER TO ARCH SITE PLAN)
3. PROPOSED NO PARKING AREA FOR GARBAGE & LOADING AREA (WITH NO PARKING SIGNS/PAVEMENT MARKINGS)
4. PROPOSED PAVEMENT MARKINGS FOR FIRE ROUTE
5. PROPOSED CONCRETE BARRIER CURB AS PER OPSD 600.110
6. PROPOSED ACCESSIBLE SPACES C/W LINE PAINTING
7. EXISTING ASPHALT TO REMAIN
8. EXISTING ASPHALT PARKING LOT TO BE REMOVED & REPLACED WITH 100mm TOPSOIL & SOD
9. PROPOSED LIGHT DUTY PAVEMENT STRUCTURE
10. PROPOSED HEAVY TRAFFIC PAVEMENT STRUCTURE
11. PROPOSED LANDSCAPING (AS PER LANDSCAPING PLAN)
12. PROPOSED FIRE ROUTE
13. PROPOSED FIRE ROUTE SIGNAGE
14. PROPOSED ROOF DRAINAGE OUTLET
15. 30 x 45 cm "DISABLED PARKING PERMIT" SIGN (Rb-93) AS PER MTO BOOK 5 AND AS PER SECTION 11 OF THE ONTARIO REGULATION 581/90. SIGN TO BE MOUNTED ON BUILDING WALL OR POST
16. PROPOSED CONCRETE WALKWAY, AND VEHICULAR ACCESS ROUTE TO REAR SITE
17. PROPOSED PRECAST CONCRETE BUMPER CURBS
18. PROPOSED SEPTIC TANKS & LEACHING BED (REFER TO SEPTIC DESIGN BY GREEN VALLEY ENVIRONMENTAL)
19. PROPOSED CATCHBASIN & INFILTRATION GALLERY
20. PROPOSED STORMWATER DETENTION AREA
21. EXISTING CULVERT TO BE REMOVED AND REPLACED
22. PROP RIP-RAP FOR DEPRESSED CURBS & PIPE OUTLET
23. PROPOSED FIRE HYDRANT
24. PROPOSED TACTILE WALKING SURFACE INDICATOR AS PER CITY OF OTTAWA ACCESSIBILITY DESIGN STANDARDS SECTIONS 2.7 & 3.4.6.
25. EXISTING LIGHT STANDARD TO REMAIN
26. PROPOSED STORMWATER QUANTITY CONTROL AND TREATMENT UNITS
27. PROPOSED DITCH W/ SUBDRAIN

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No.	REVISIONS	BY	DATE
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NOT AUTHENTIC UNLESS SIGNED AND DATED



CLIENT: **THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON**

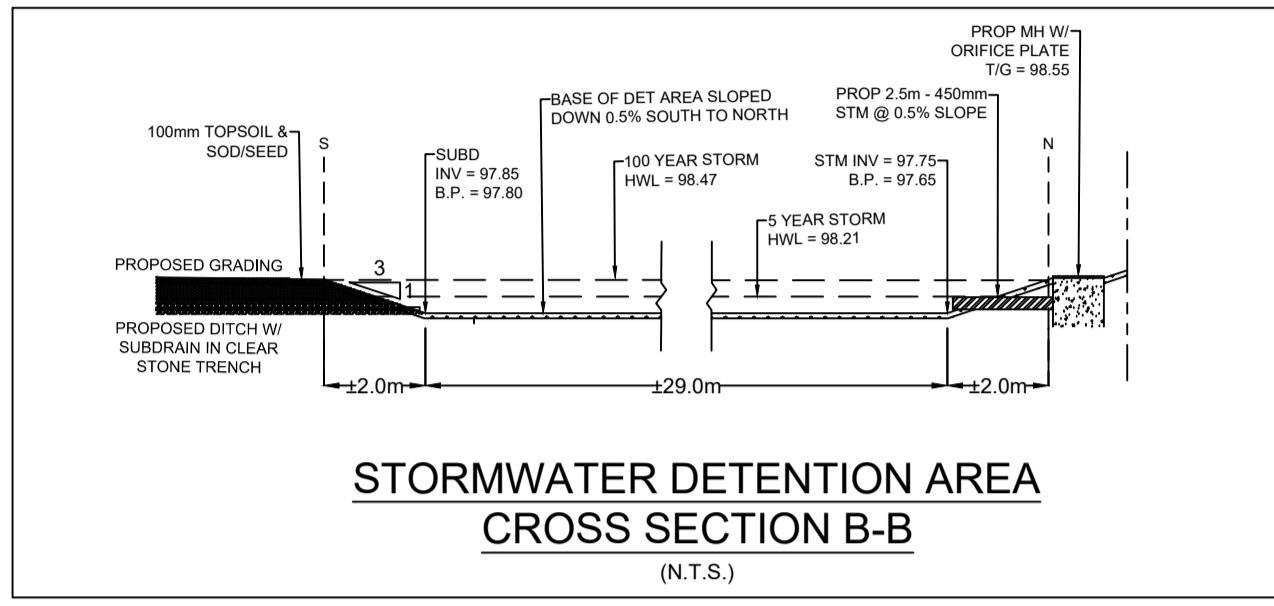
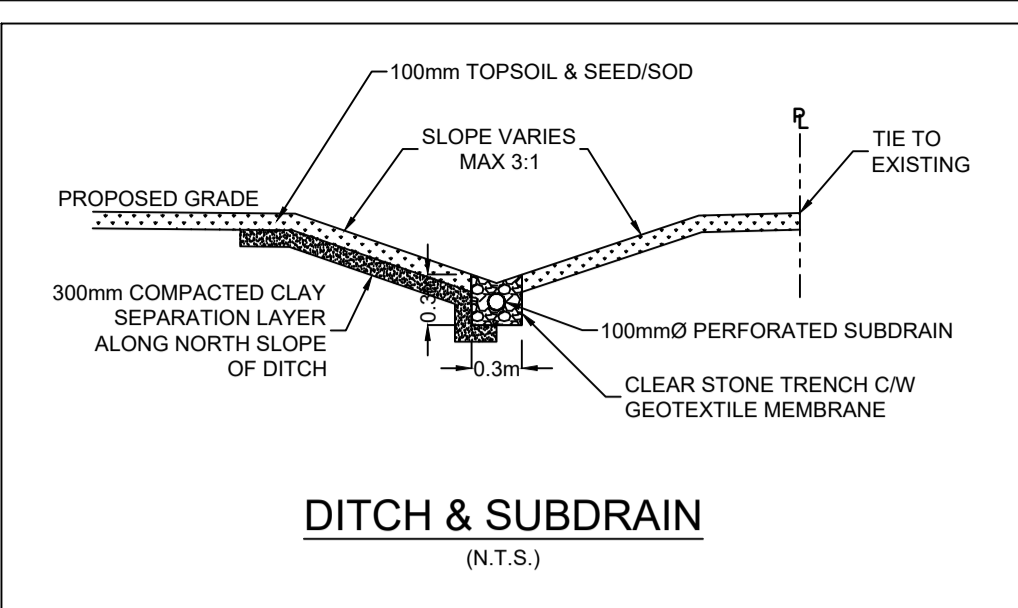
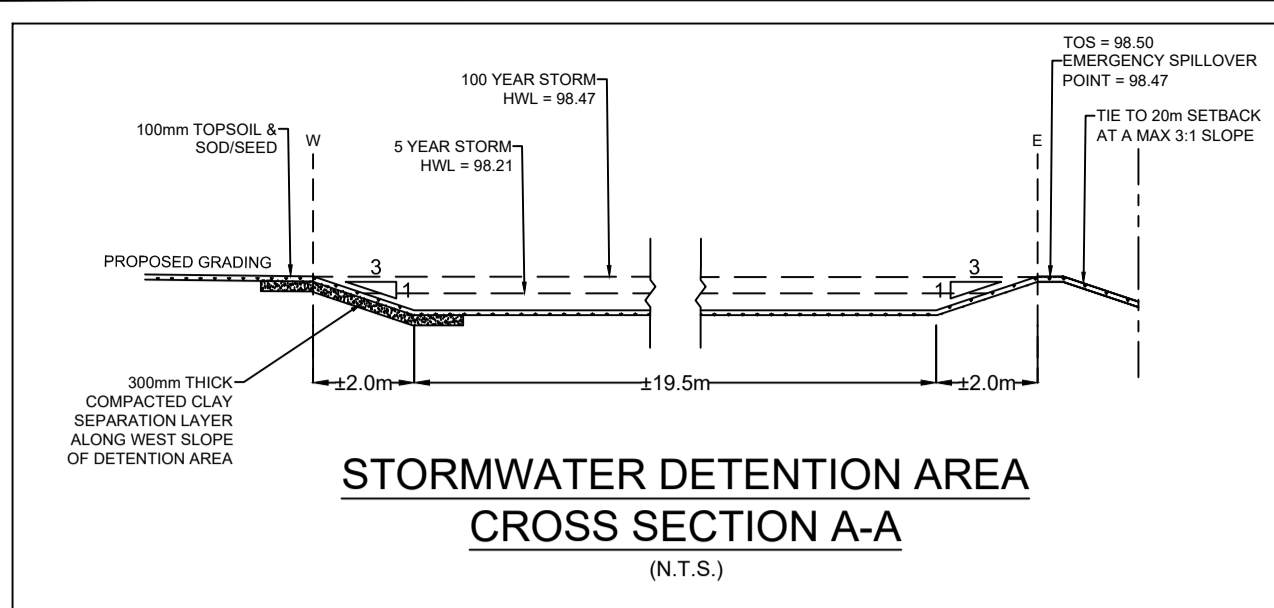
DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: **PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA**

DRAWING TITLE: **SITE DEVELOPMENT PLAN**

PROJECT NO: 170132
DATE: JAN 2020

C201



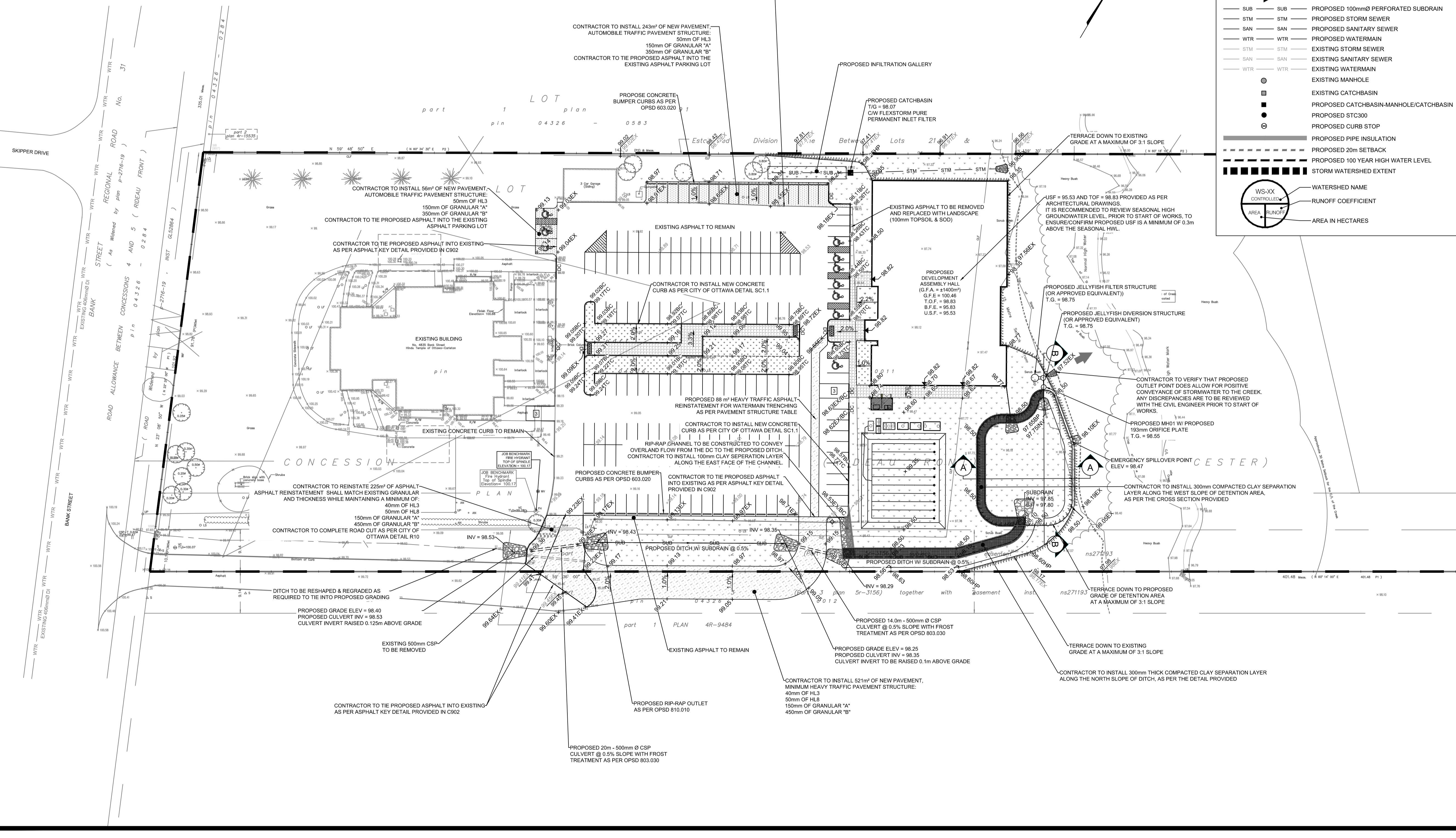
PAVEMENT STRUCTURE

COURSE	MATERIAL	THICKNESS (mm)	
		AUTOMOBILE PARKING	TRUCK ROUTE (HEAVY TRAFFIC)
SURFACE	HL.3 A/C (PG 58-34)	50	40
BINDER	HL.8 A/C (PG 58-34)	--	50
BASECOURSE	GRANULAR "A"	150	150
SUBBASE	GRANULAR "B" TYPE II	350	450

NOTE: IN PREPARATION FOR PAVEMENT CONSTRUCTION AT THIS SITE, ANY SURFICIAL OR NEAR SURFACE/SUBGRADE LEVEL TOPSOIL AND ANY SOFT, WET OR DELETERIOUS MATERIALS SHOULD BE REMOVED FROM THE PROPOSED PAVED AREAS. THE EXPOSED SUBGRADE SHOULD BE INSPECTED AND APPROVED BY GEOTECHNICAL PERSONNEL AND ANY SOFT AREAS EVIDENT SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE EARTH BORROW APPROVED BY THE GEOTECHNICAL ENGINEER. THE SUBGRADE SHOULD BE SHAPED AND CROWNED TO PROMOTE DRAINAGE OF THE SITE DRAINAGE STRUCTURES. FOLLOWING APPROVAL OF THE PREPARATION OF THE SUBGRADE, THE PAVEMENT GRANULARS MAY BE PLACED. PAVEMENT STRUCTURE AS PER THE GEOTECHNICAL REPORT PREPARED BY LRL ASSOCIATES DATED NOVEMBER 2019.

LEGEND:

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02	ISSUED FOR CLIENT REVIEW	K.H.	11 DEC 2020
01	ISSUED FOR CLIENT APPROVAL	K.H.	11 MAR 2020

Licensed Professional Engineer
 M. BASNET
 106501996
 2021 09 22
 PROVINCE OF ONTARIO

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 5430 Canotek Road | Ottawa, ON, K1J 9G2
 www.lrl.ca | (613) 842-3434

CLIENT: **THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON**

DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: **PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA**

DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

PROJECT NO: 170132
 DATE: JAN2020

C301

NOTES: GENERAL

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - CONFIRM WITH LRL PRIOR TO UTILIZATION.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE, CATCH BASIN OUTLETS AND/OR STORM DETENTION AREAS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A CLEAN STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM.
- CURBS TO BE BARRIER, CONSTRUCTED AS PER OPSD 600.110.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSD STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSD 206, 310 & 314. MATERIALS TO OPSD 1001, 1003 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS, CATCHBASIN MANHOLES AND MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE DRAINAGE STRUCTURES.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS, IF ANY, LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
- ALL SIDEWALK CONSTRUCTION TO BE AS PER OPSD 310.010 & OPSD 310.050.

NOTES: SEWERS

- SEWER BEDDING AS PER PIPE TRENCH DETAIL WITH GRANULAR 'A' BEDDING COMPACTED TO 95% OF ITS SPMDD.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSD 407, AND 410.
- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
- ALL SEWERS WITH LESS THAN 2.0m OF COVER ARE SUBJECT TO INSULATION DETAIL.

NOTES: WATER SERVICE

- PROPOSED WATER SERVICE TO BE INSULATED WHEN COVER IS LESS THAN 2.4m AS PER DETAIL PROVIDED IN C901.

WATERMAIN TABLE

DESCRIPTION	CHAINAGE	OBVERT ELEVATION TO MATCH EXISTING	FINISHED GRADE
CONNECTION TO EXISTING TEE CONNECT. #1	0+000.0	96.92	99.32
45° BEND #1	0+071.5	96.60	99.00
45° BEND #2	0+077.5	96.75	99.15
TEE CONNECT. #2	0+083.7	96.40	98.80
FIRE HYDRANT	0+088.0**	96.16	98.56
45° BEND #3	0+131.1	96.30	98.70
45° BEND #4	0+136.0	96.25	98.65
PROPOSED DEVELOPMENT	0+144.6	96.42	98.82

NOTES:
 **2.4m BELOW BASE OF DITCH TRENCH
 *DIVERGES AT TEE CONNECTION #2

LEGEND:

- EXISTING PROPERTY LINE
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MAX.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED STRAW BALE CHECK DAM AS PER OPSD 219.180
- PROPOSED DOOR ENTRANCE/EXIT
- PROPOSED LANDSCAPED AREA
- PROPOSED CONCRETE FEATURES/ISLAND
- PROPOSED HEAVY-DUTY ASPHALT
- PROPOSED LIGHT-DUTY ASPHALT
- PROPOSED RIP RAP
- *50.00 PROPOSED ELEVATION
- *50.00HP PROPOSED HIGH POINT ELEVATION
- *50.00SW PROPOSED SADDLE ELEVATION
- *50.00BC PROPOSED BOTTOM OF CURB ELEVATION
- *50.00TC PROPOSED TOP OF CURB ELEVATION
- *50.00EX MATCH INTO EXISTING ELEVATION
- *70.19 EXISTING ELEVATION
- PROPOSED OVERLAND MAJOR FLOW ROUTE
- SUB PROPOSED 100mm PERFORATED SUBDRAIN
- STM PROPOSED STORM SEWER
- SAN PROPOSED SANITARY SEWER
- WTR PROPOSED WATERMAIN
- STM EXISTING STORM SEWER
- SAN EXISTING SANITARY SEWER
- WTR EXISTING WATERMAIN
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- EXISTING CATCHBASIN-MANHOLE/CATCHBASIN
- PROPOSED STC300
- PROPOSED CURB STOP
- PROPOSED PIPE INSULATION
- PROPOSED 20m SETBACK
- PROPOSED 100 YEAR HIGH WATER LEVEL
- STORM WATERSHED EXTENT
- WS-XX WATERSHED NAME
- AREA RUNOFF COEFFICIENT
- AREA IN HECTARES

USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE THE SCOPE AND INTENT OF THE DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENTS, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER CONFIRMS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS. THE CONTRACTOR CONFIRMS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS, CAD FILES OR OTHER ELECTRONIC MEDIA AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT, INCLUDING REPEATS OF THE PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.

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UNAUTHORIZED CHANGES:

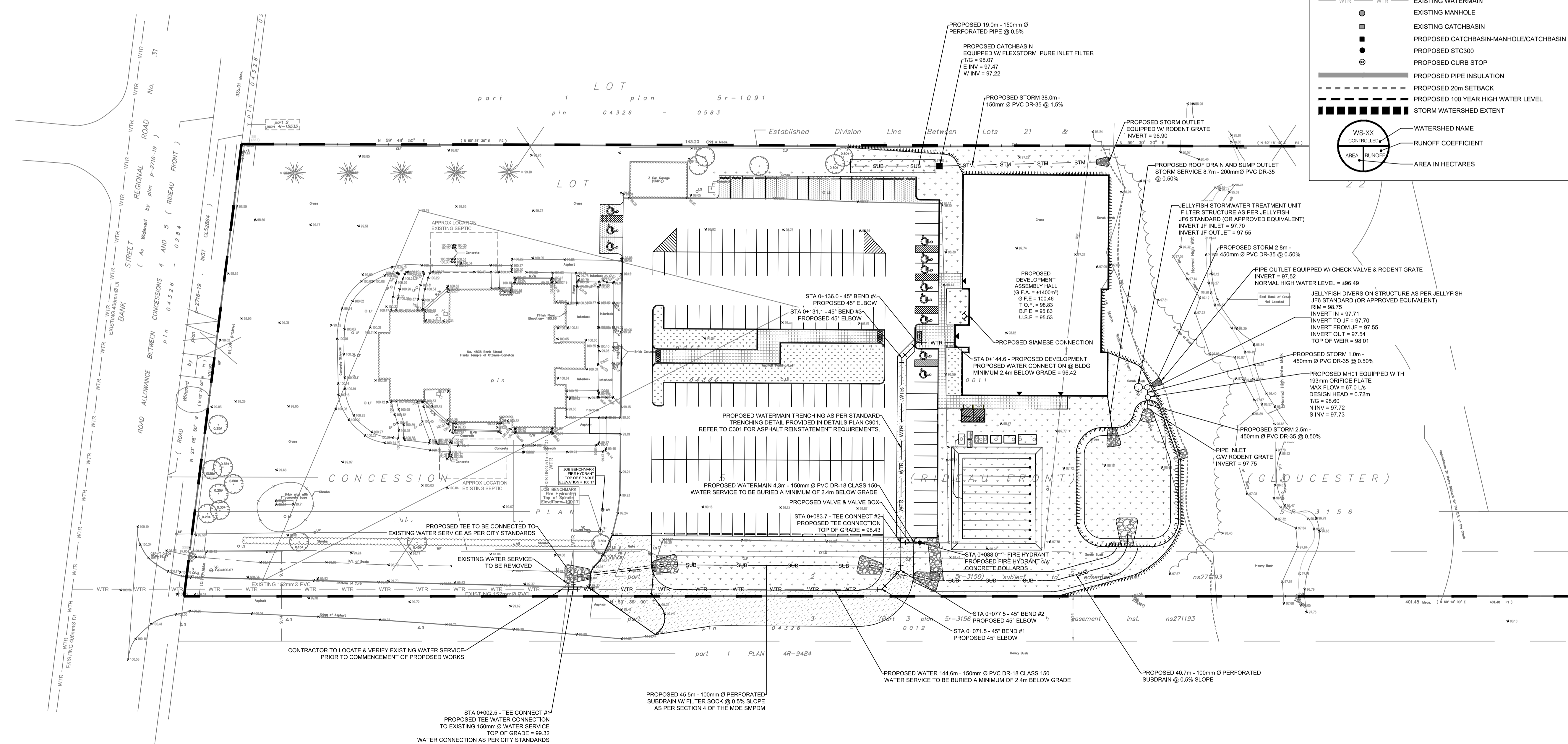
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IN ADDITION, THE CLIENT AGREES TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LRL FROM ANY DAMAGES, LIABILITIES OR COST, INCLUDING REASONABLE ATTORNEY'S FEES AND COST OF DEFENSE, ARISING FROM SUCH CHANGES.

THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.

SCALE: 1:500



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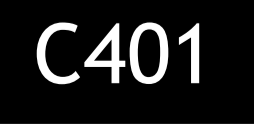
CLIENT: THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON

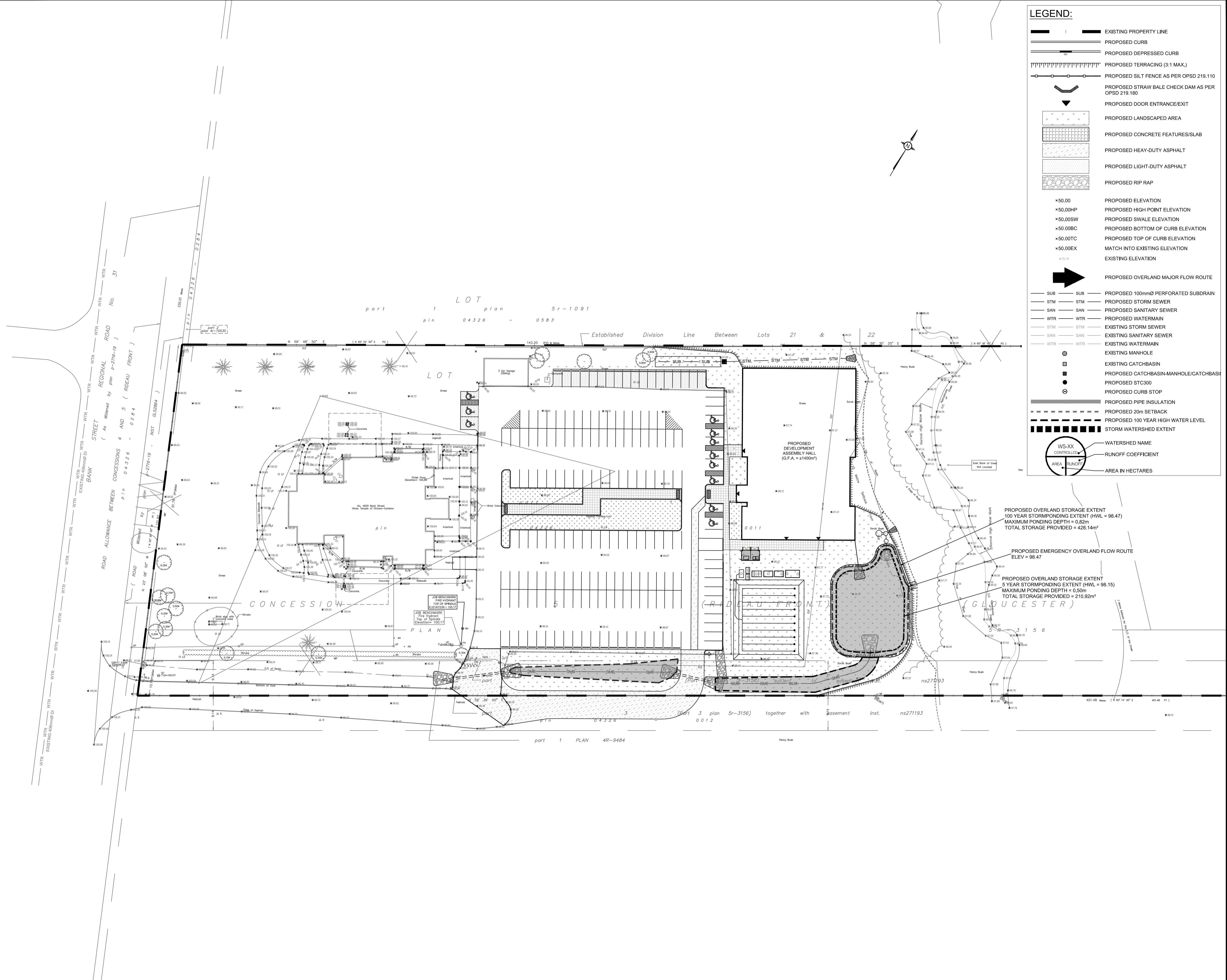
DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA

DRAWING TITLE: SERVICING PLAN

PROJECT NO: 170132
 DATE: JAN2020





LEGEND:

- EXISTING PROPERTY LINE
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MAX.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
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- WTR WTR PROPOSED WATERMAIN
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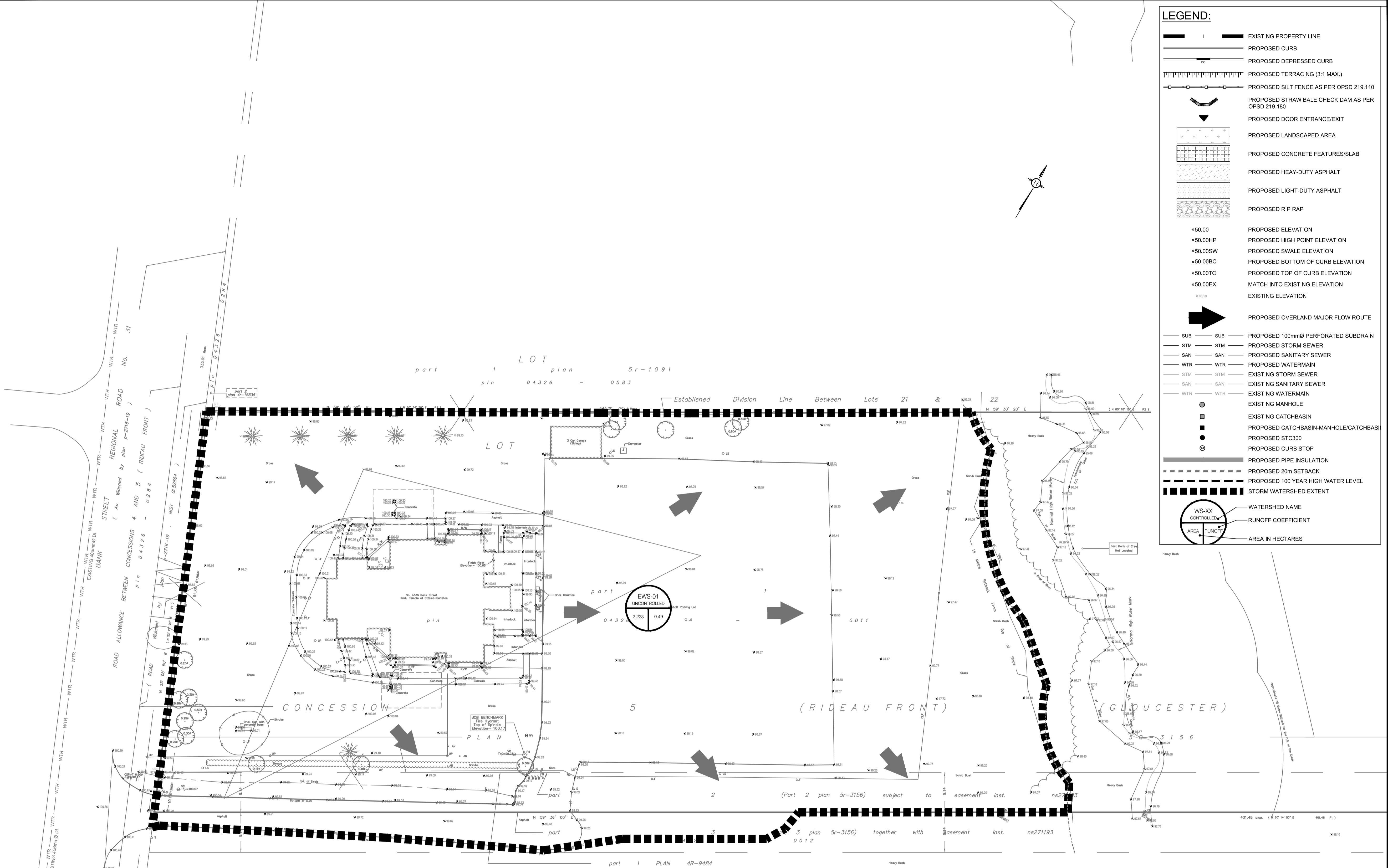
DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA

DRAWING TITLE: STORMWATER MANAGEMENT PLAN

PROJECT NO: 170132 DATE: JAN2020

C601



LEGEND:

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- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MAX.)
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- STM EXISTING STORM SEWER
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- WTR EXISTING WATERMAIN
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
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- PROPOSED CURB STOP
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10m 5 0 10 20m
SCALE: 1:500

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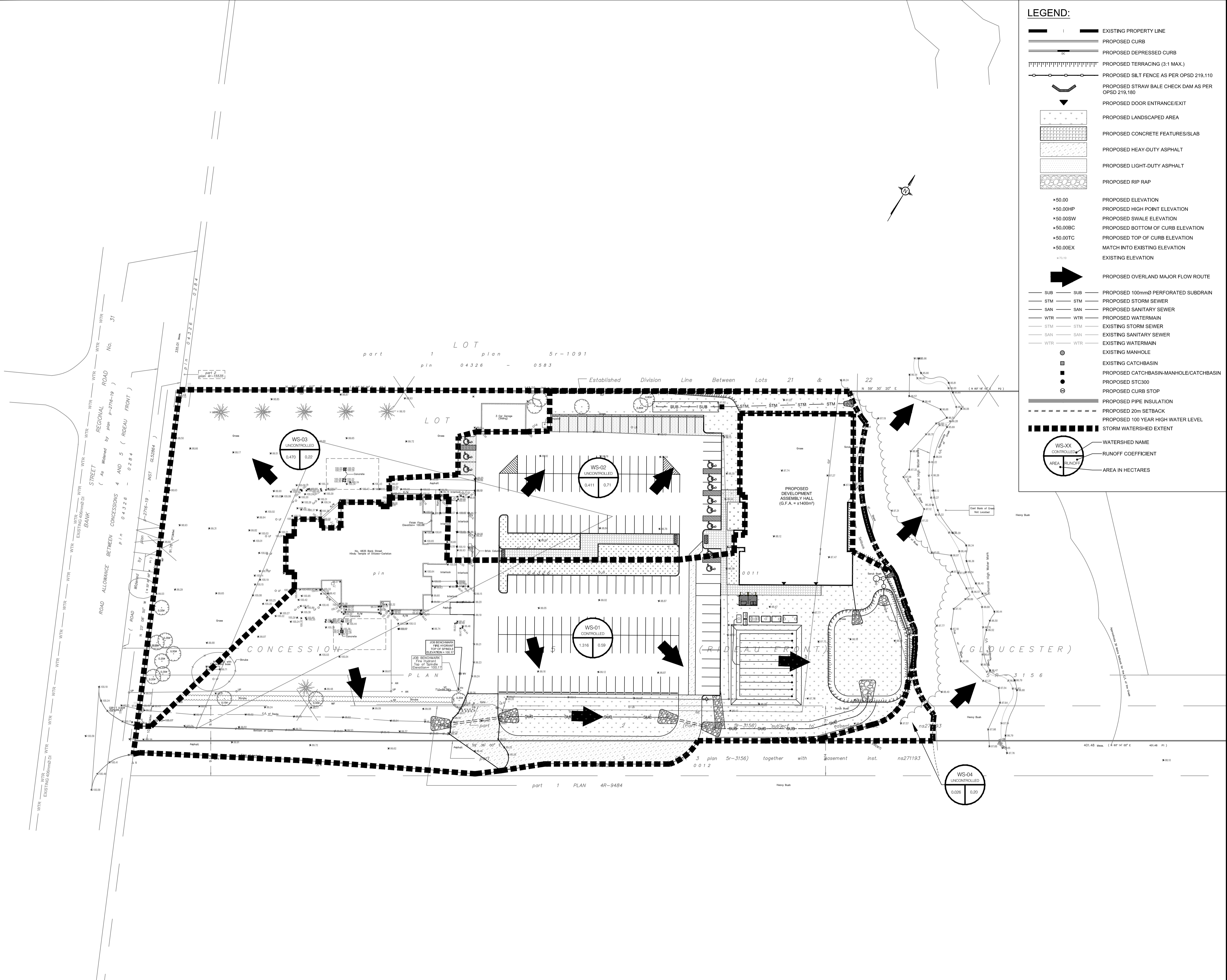
DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA

DRAWING TITLE: PRE-DEVELOPMENT WATERSHED PLAN

PROJECT NO: 170132 DATE: JAN2020

C701



LEGEND:

- EXISTING PROPERTY LINE
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MAX.)
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED STRAW BALE CHECK DAM AS PER OPSD 219.180
- PROPOSED DOOR ENTRANCE/EXIT
- PROPOSED LANDSCAPED AREA
- PROPOSED CONCRETE FEATURES/SLAB
- PROPOSED HEAVY-DUTY ASPHALT
- PROPOSED LIGHT-DUTY ASPHALT
- PROPOSED RIP RAP
- PROPOSED ELEVATION
- PROPOSED HIGH POINT ELEVATION
- PROPOSED SLOPE ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- MATCH INTO EXISTING ELEVATION
- EXISTING ELEVATION
- PROPOSED OVERLAND MAJOR FLOW ROUTE
- PROPOSED 100mmØ PERFORATED SUBDRAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
- PROPOSED STC300
- PROPOSED CURB STOP
- PROPOSED PIPE INSULATION
- PROPOSED 20m SETBACK
- PROPOSED 100 YEAR HIGH WATER LEVEL
- STORM WATERSHED EXTENT
- WATERSHED NAME
- RUNOFF COEFFICIENT
- AREA IN HECTARES

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NOT AUTHENTIC UNLESS SIGNED AND DATED

LRL
ENGINEERING | INGENIERIE
5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

CLIENT: **THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON**

DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: **PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA**

DRAWING TITLE: **POST-DEVELOPMENT WATERSHED PLAN**

PROJECT NO: 170132 DATE: JAN2020

C702

NOTES

- FOR 100 - 400mm DIAMETER WATERMAINS, WHERE THE DEPTH OF COVER IS LESS THAN 250mm.
- THICKNESS OF INSULATION SHALL BE ADJUSTABLE TO 25mm.
- PROVIDE MAINTENANCE HOLES, GLETTETS, CARBONISING, ETC. INSULATION SHALL BE PLACED PER DETAIL W22
- DEPTH OF COVER LESS THAN 150mm REQUIRES SPECIAL DESIGN
- SHOULDER JOINTS OF VALVE SHEETS
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

DATE: MAY 2001
REV: NONE
REV: MARCH 2006
DWG. No.: W22

DATE: MAY 2001
REV: NONE
REV: MARCH 2007
DWG. No.: R10

NOTES

- The sump is measured from the lowest invert.
- Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
- Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
- Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
- Pipe support according to OPSD 708.020.
- For benching and pipe opening details, see OPSD 701.021.
- For adjustment unit and frame installation, see OPSD 704.010.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

DATE: MAY 2001
REV: NONE
REV: MARCH 2007
DWG. No.: W24

NOTES

- Sidewalk thickness at residential driveways and adjacent to curb shall be 150mm.
- At commercial and industrial driveways, the thickness shall be 200mm.
- Sidewalk width shall be wider than specified.
- This OPSD shall be read in conjunction with OPSD 310.030, 310.031, 310.032, 310.033 and 310.039.
- All dimensions are in millimetres unless otherwise shown.

DATE: NOV 2015
REV: 2
DWG. No.: OPSD 310.010

NOTES

- THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
- A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
- IF AN EXTENSION CURBING MACHINE IS USED, THE EXPANSION JOINTS SHALL BE PLACED AT THE END OF THE EXTRUSION.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- DUMMY JOINTS SHALL BE 20mm DEEP FROM FRONT, BACK AND TOP OF SECTION AT 2m SPACING.
- FOR DEPRESSED CURB AT ENTRANCES USE 250.
- FOR DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMP 0 TO 6mm AND FOR PRIVATE ENTRANCES 0 TO 25mm.

DATE: JANUARY 2003
REV: NONE
REV: MARCH 2014
DWG. No.: SC1.1

NOTES

- REFER TO CONSTRUCTION SPECIFICATION F-703

DATE: MAY 2001
REV: NONE
REV: MARCH 2006
DWG. No.: W19

NOTES

- FOR ALL WATERMAINS
- SEE DETAIL W20 FOR HYDRANTS IN DITCH AREAS.
- FOR WATERMAINS ABOVE AND UNDER, LOCATE VALVE WITH 10% OF CENTRELINE. RETAINING/RESTRAINING DEVICES TO BE UTILIZED. FOR WATERMAINS ABOVE AND UNDER, LOCATE VALVE WITH FLANGED END DIRECTLY TO FLANGED TEE.
- RETAINING/RESTRAINING DEVICES TO BE UTILIZED.
- HYDRANT BREAKABLE FLANGE ELEVATION TO BE ESTABLISHED PRIOR TO INSTALLATION. REFER TO W-19-A AND F-703.
- SEE W-19-B FOR BACKFILL REQUIREMENTS IN THIS AREA.
- SEE W-19 FOR HYDRANT LOCATION REQUIREMENTS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

DATE: MAY 2001
REV: NONE
REV: MARCH 2007
DWG. No.: W19

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- FOR 200 AND 250mm VALVES AND BEDDING BELOW THE CONCRETE BLOCKS AS REQUIRED TO RAISE BELL HIGH ENOUGH TO PREVENT CONTACT WITH THE VALVE DOWNY.

DATE: MAY 2001
REV: NONE
REV: MARCH 2007
DWG. No.: W24

NOTES

- PIPE EMBEDMENT MATERIAL - GRANULAR 'A'.
- FINAL BACKFILL - APPROVED NATIVE MATERIAL OR SELECT SUBGRADE IN ACCORDANCE WITH F-700
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- FOR ALL TRENCHES
- WHEN APPROVED BY THE CONTRACT ADMINISTRATOR, POOR SOILS SHALL BE EXCAVATED TO CREATE A FOUNDATION THAT SHALL BE FILLED TO THE BEDDING WITH GRANULAR 'A'.

DATE: MAY 2001
REV: NONE
REV: MARCH 2009
DWG. No.: W17

NOTES

- FOR 300mm OR GREATER DIAMETER WATERMAIN BENDS SHALL BE MAXIMUM 225°
- RESOLUTION PER 822 AT EXISTING WATERMAIN.
- REFER TO W25-A FOR RESTRAINED LENGTH REQUIREMENTS.
- REFER TO W25-B AND W25-C FOR THIRST BLOCK REQUIREMENTS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

DATE: MAY 2001
REV: NONE
REV: MARCH 2009
DWG. No.: W25.1

NOTES

- Pipe embedment or bedding, cover, and backfill shall be according to:
 - a) Flexible OPSD 802.010, 802.013, 802.014, 802.020, 802.023, and 802.024.
 - b) Rigid - OPSD 802.030, 802.031, 802.032, 802.033, 802.034, 802.050, 802.051, 802.052, 802.053, and 802.054.
- Frost tapers shall start at bedding grade.

DATE: NOV 2015
REV: 3
DWG. No.: OPSD 803.030

NOTES

- Covers shall be Type A or Type B, as specified.
- All dimensions are in millimetres unless otherwise shown.

DATE: NOV 2018
REV: 4
DWG. No.: OPSD 401.010

NOTES

- The thickness of the rip-rap layer shall be at least 1.5 times the rip-rap mean diameter.
- All dimensions are in millimetres unless otherwise shown.

DATE: NOV 2018
REV: 3
DWG. No.: OPSD 810.010

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DATE: MAY 2001
REV: NONE
REV: MARCH 2009
DWG. No.: W25.1

NOT AUTHENTIC UNLESS SIGNED AND DATED

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www.lrl.ca | (613) 842-3434

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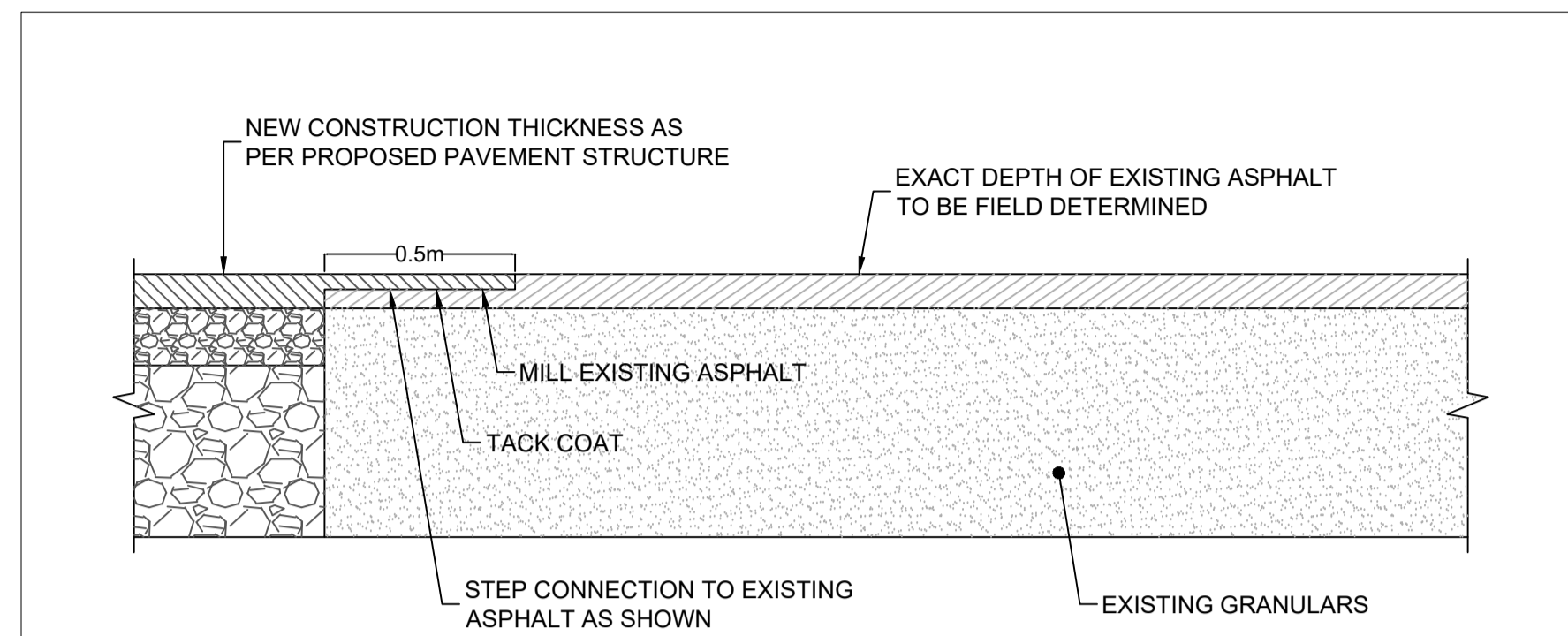
DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA

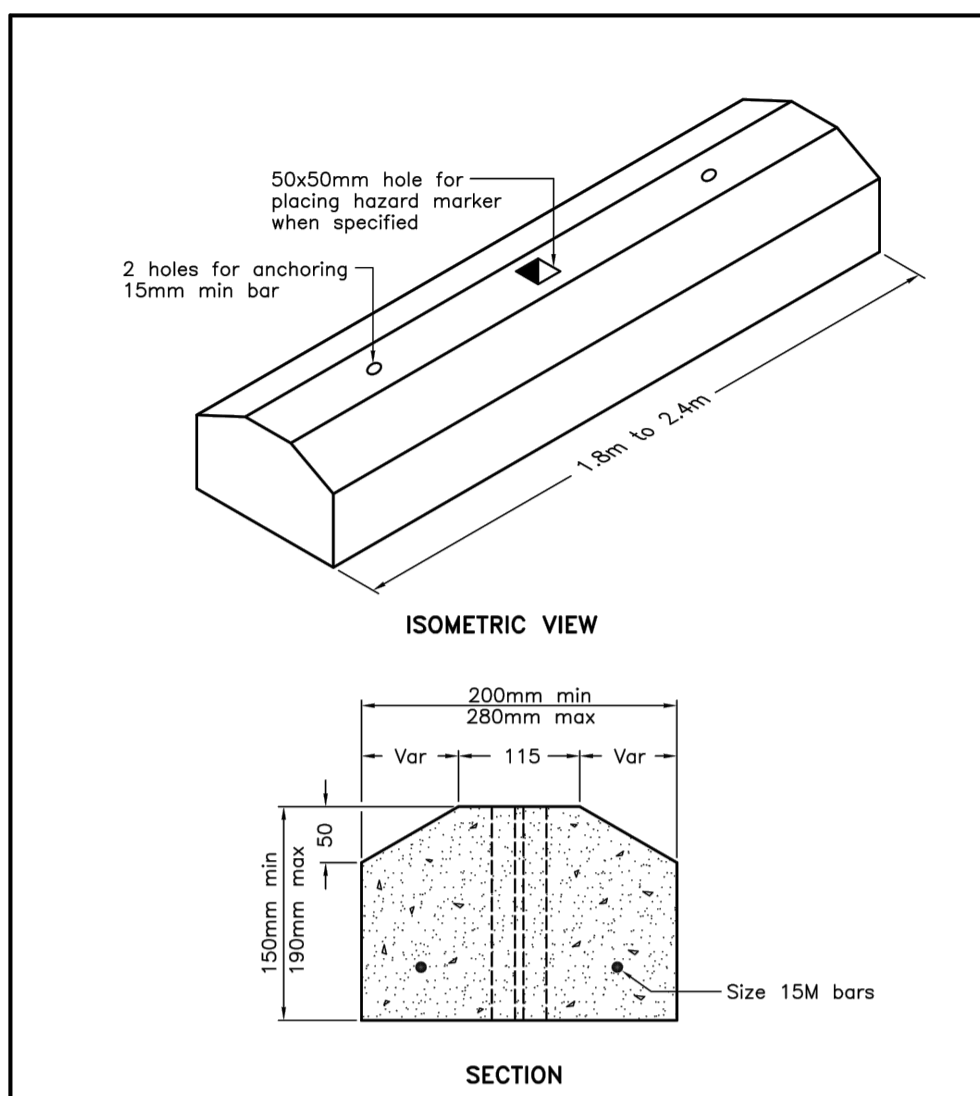
DRAWING TITLE: CONSTRUCTION DETAIL PLAN

PROJECT NO: 170132
DATE: JAN 2020

C901



TYPICAL KEY CONNECTION TO EXISTING ASPHALT (N.T.S.)

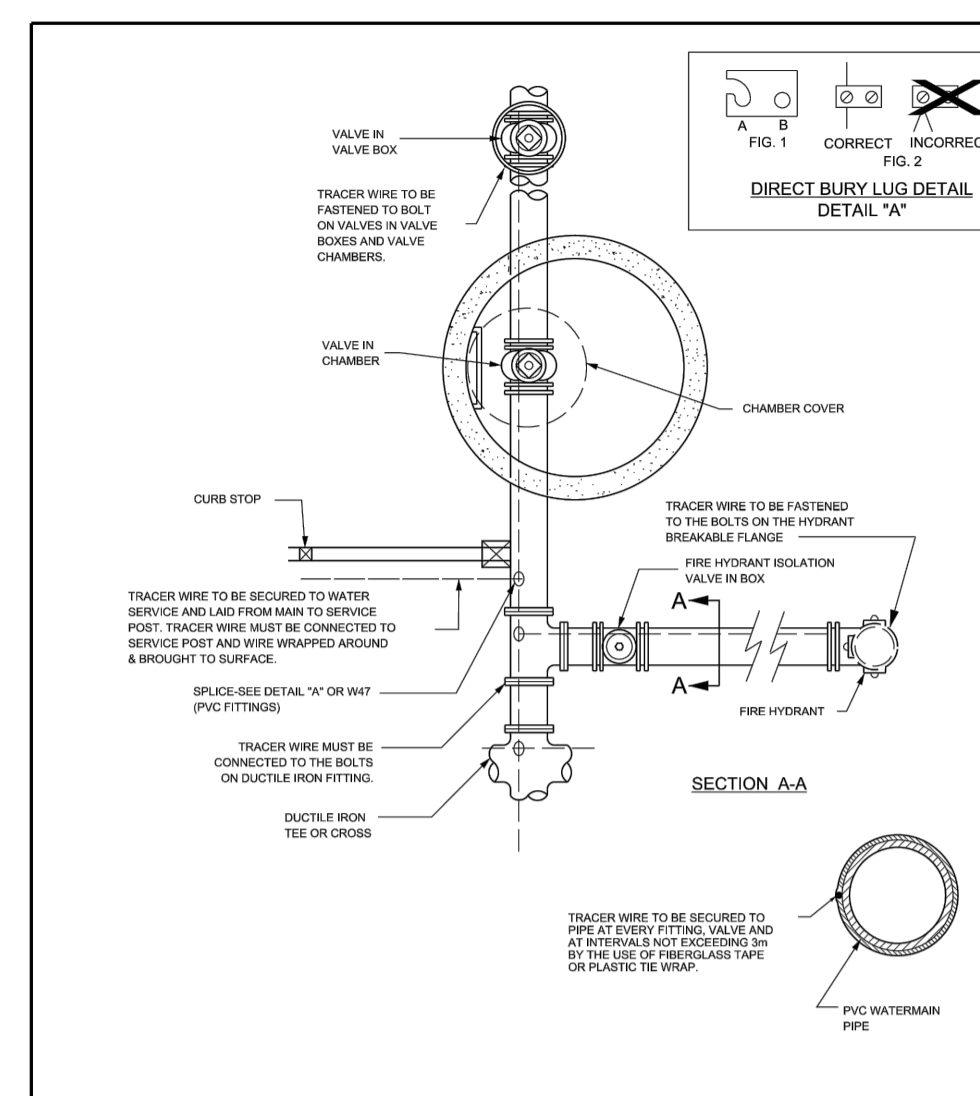


NOTES:
A Class of concrete shall be C2 according to CSA A23.1.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2006 Rev 1

PRECAST CONCRETE CURB

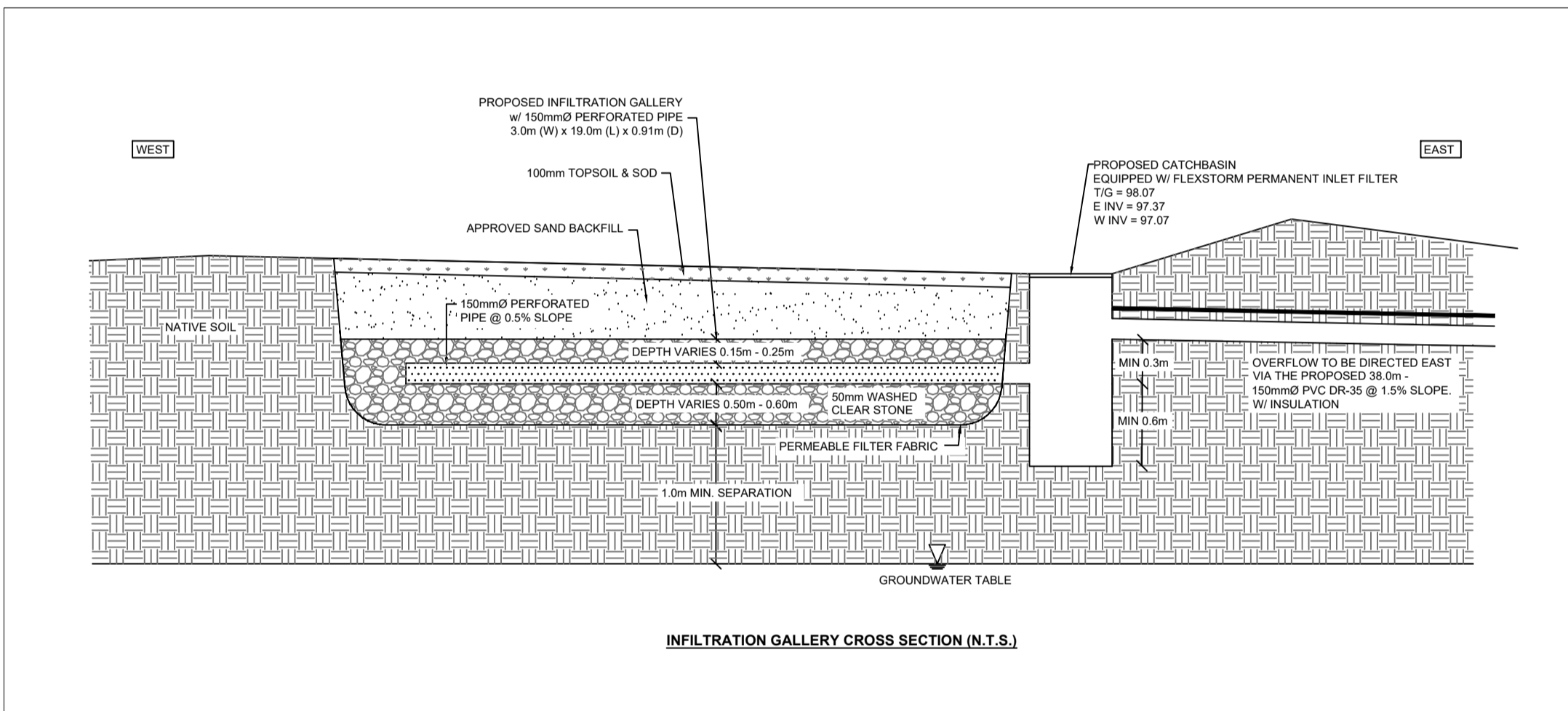
OPSD 603.020



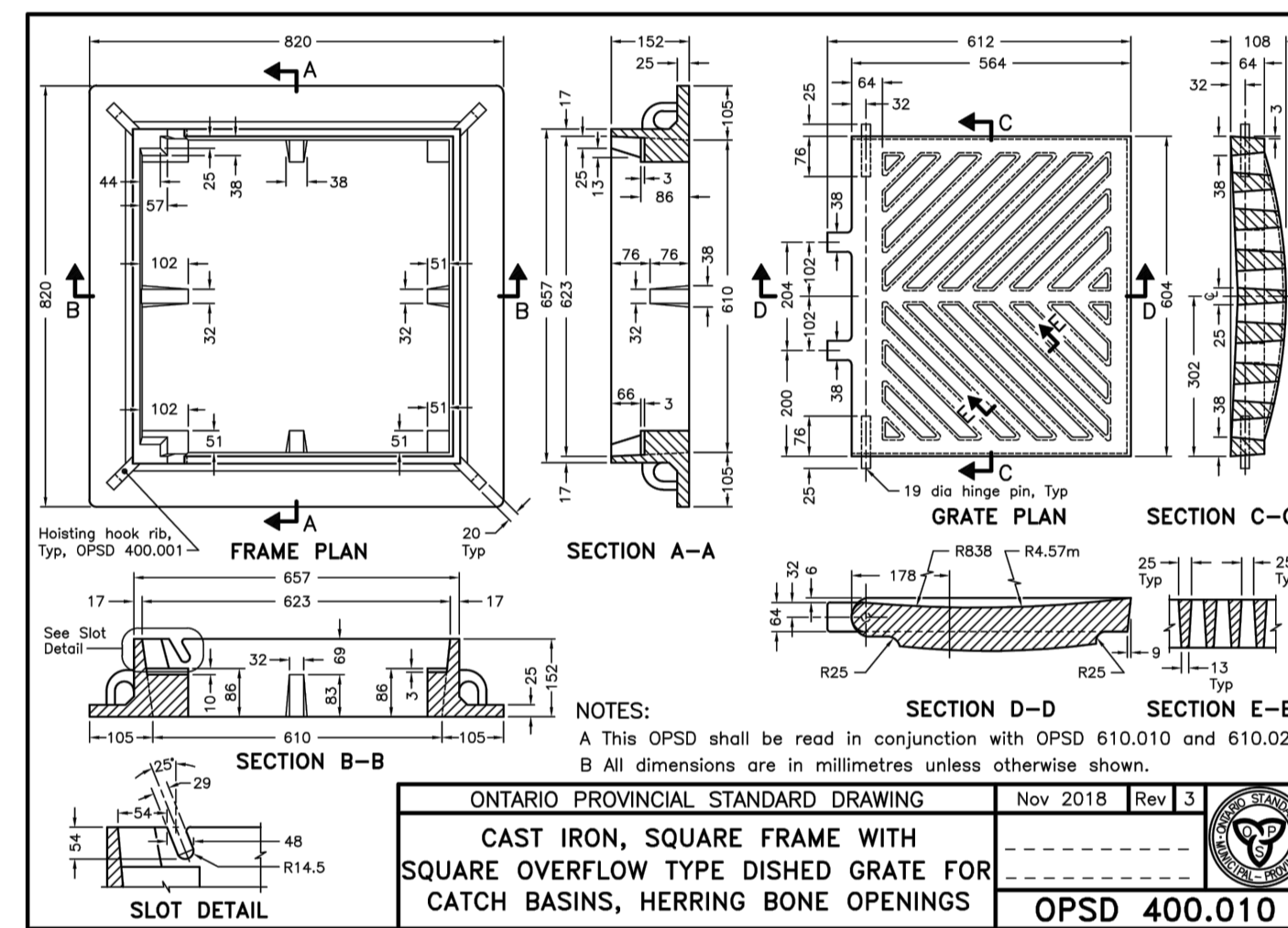
NOTES:
1. ALL CONNECTIONS MUST BE WATERPROOFED.
2. SPRINGS OF MAIN TRACER WIRE IS NOT ALLOWED UNLESS SPECIFIED OR APPROVED.
3. TRACER WIRE CONTINUITY OF CURRENT MUST BE TESTED AND VERIFIED.
4. FOR PIPES TO DUCTILE IRON CONNECTIONS, THE TRACER WIRE MUST BE ATTACHED TO THE ELECTRIC IRON PIPE BY GALVANIZED.
5. FOR SPLICES WITH DIRECT BURY LUGS, STEP BOTH LUGS TO MAIN AND CUT TAP WIRE TO WIDTH OF LUG (MIN), PLACE MAIN WIRE INTO LUG AND TRACER WIRE INTO THE OTHER LUG. TRACER WIRE SHOULD BE TO 100% INSULATE SEALANT COVER AND DISCARD. CLOSE HOUSING, ALLOWING WIRES UNTIL HOUSING LID IS FULLY LATCHED.

Ottawa CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS

N.T.S.
DATE: MAY 2001
REV: MARCH 2011
DWG No.: W36

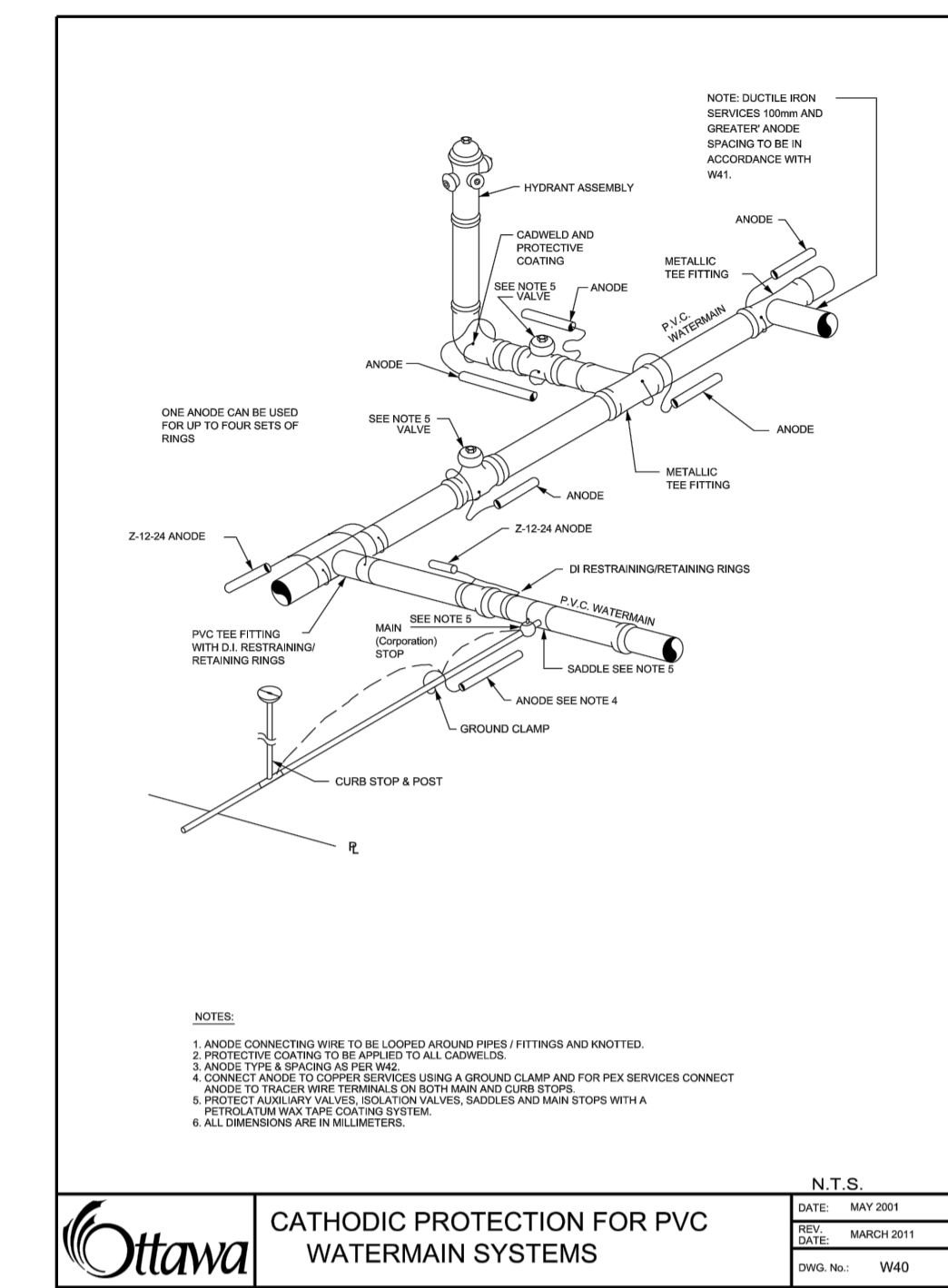


INFILTRATION GALLERY CROSS SECTION (N.T.S.)



NOTES:
A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
B All dimensions are in millimetres unless otherwise shown.

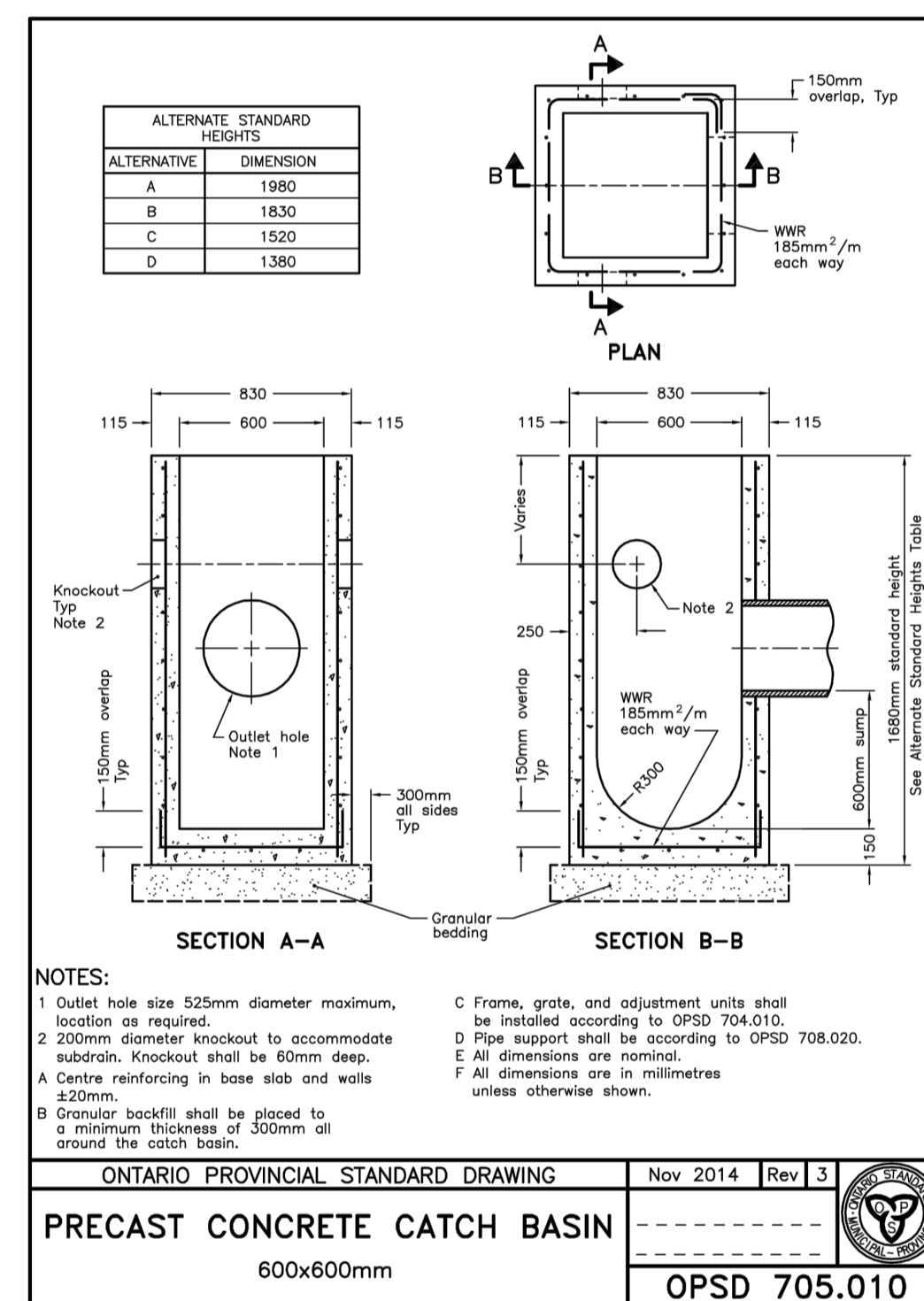
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3
CAST IRON, SQUARE FRAME WITH SQUARE OVERFLOW TYPE DISHED GRATE FOR CATCH BASINS, HERRING BONE OPENINGS
OPSD 400.010



NOTES:
1. ANODE CONNECTIONS WIRE TO BE GALVANIZED AND/OR ANODIZED.
2. PROTECTIVE COATING TO BE APPLIED TO ALL GALVANIZED.
3. ANODE TYPE IS SPECIFIED IN THIS DRAWING.
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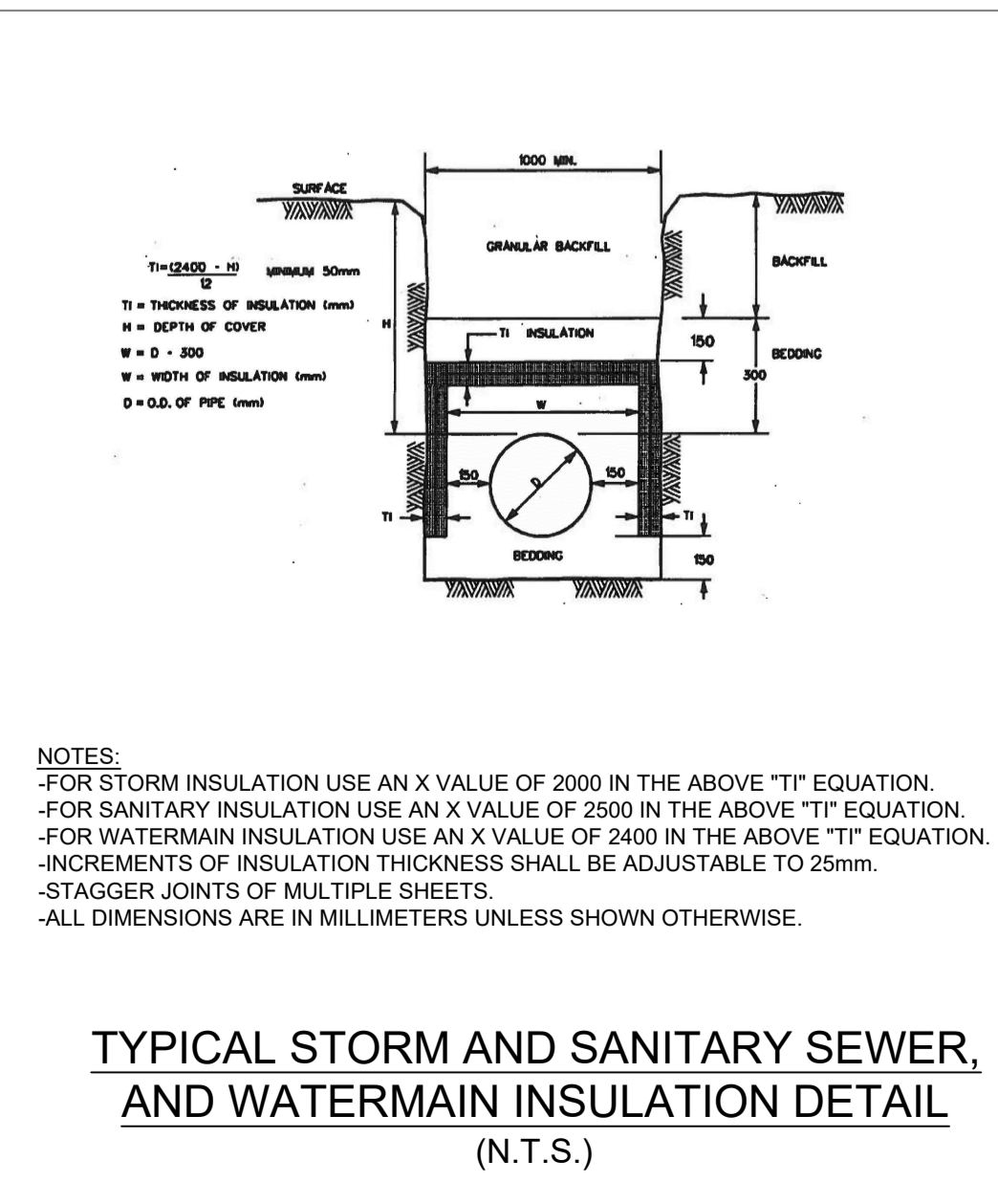
Ottawa CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS

N.T.S.
DATE: MAY 2001
REV: MARCH 2011
DWG No.: W40



NOTES:
1. Outlet hole size 525mm diameter maximum, location as required.
2. 200mm diameter knockout to accommodate substrate. Knockout shall be 60mm deep.
A Centre reinforcing in base slab and walls 200mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
PRECAST CONCRETE CATCH BASIN
600x600mm
OPSD 705.010



NOTES:
-FOR STORM INSULATION USE AN X VALUE OF 2000 IN THE ABOVE "T" EQUATION.
-FOR SANITARY INSULATION USE AN X VALUE OF 2500 IN THE ABOVE "T" EQUATION.
-FOR WATERMAIN INSULATION USE AN X VALUE OF 2400 IN THE ABOVE "T" EQUATION.
-INCREMENTS OF INSULATION THICKNESS SHALL BE ADJUSTABLE TO 25mm.
-STAGGER JOINTS OF MULTIPLE SHEETS.
-ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

TYPICAL STORM AND SANITARY SEWER, AND WATERMAIN INSULATION DETAIL (N.T.S.)

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EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT MAY NOT BE COMPLETE OR TO DATE. CONTRACTOR SHALL VERIFY IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING OR PERFORMING WORK.
CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS BEFORE START OF CONSTRUCTION.
THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.

No.	REVISIONS	BY	DATE
04	RE-ISSUED FOR SITE PLAN APPLICATION	K.H.	22 SEPT 2021
03	RE-ISSUED FOR SITE PLAN APPLICATION	K.H.	23 DEC 2020
02	ISSUED FOR CLIENT REVIEW	K.H.	11 DEC 2020
01	ISSUED FOR CLIENT APPROVAL	K.H.	11 MAR 2020



NOT AUTHENTIC UNLESS SIGNED AND DATED

LRJ
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www.lrl.ca | (613) 842-3434

CLIENT: THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON

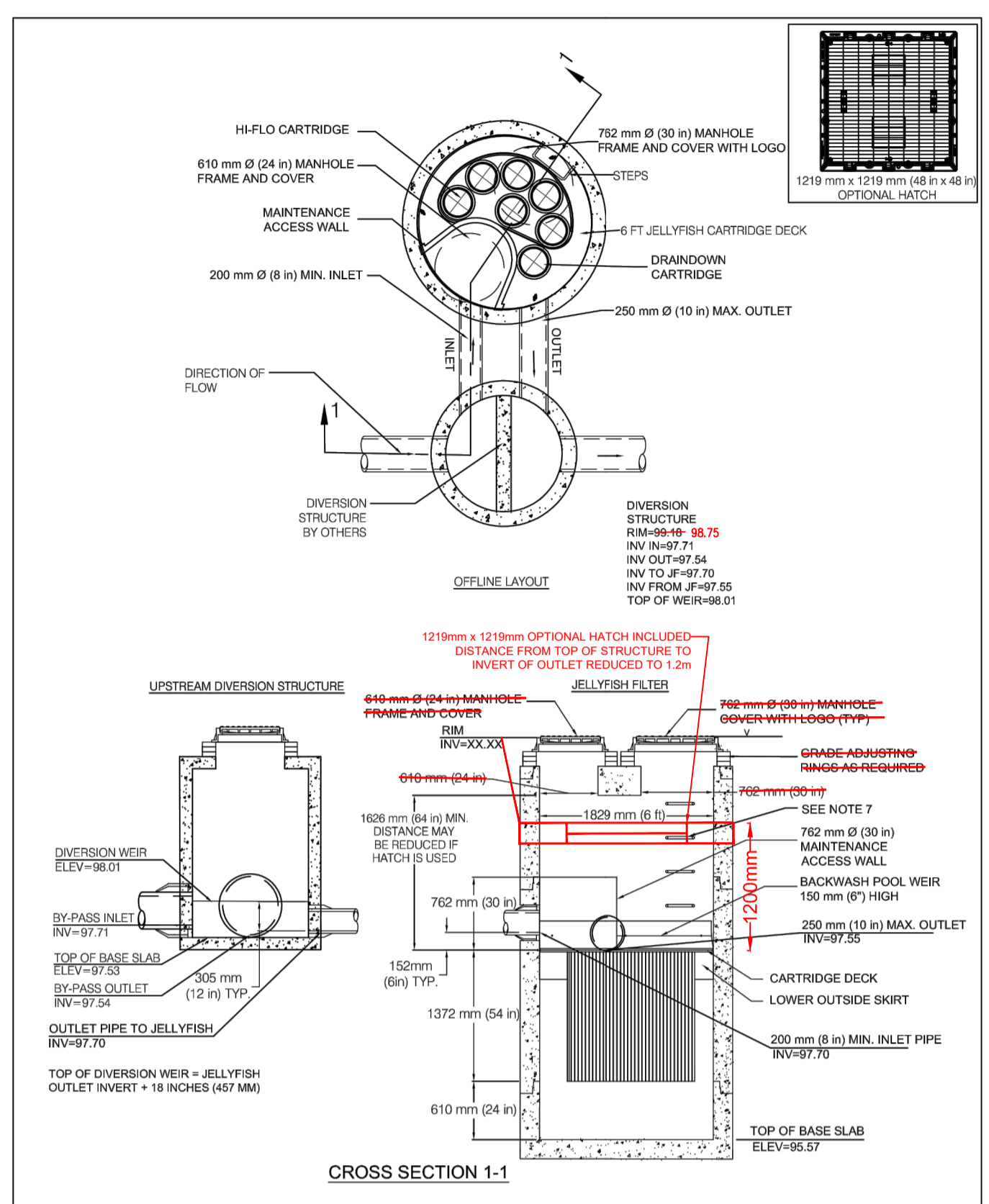
DESIGNED BY: P.P. DRAWN BY: K.H. APPROVED BY: M.B.

PROJECT: PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA

DRAWING TITLE: CONSTRUCTION DETAIL PLAN

PROJECT NO: 170132
DATE: JAN2020
C902

DRAWING NOT TO BE USED FOR CONSTRUCTION



GENERAL NOTES: ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED. JELLYFISH STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

JELLYFISH DESIGN NOTES table with columns for JELLYFISH TREATMENT CAPACITY, CARTRIDGE SELECTION, and REVISION DESCRIPTION. Includes a table for CARTRIDGE SELECTION with columns for CARTRIDGE, CAPACITY, and REMOVAL EFFICIENCY.

JELLYFISH FILTER - SPECIFICATIONS GENERAL: THIS INCLUDES SPECIFIC REQUIREMENTS FOR CONSTRUCTION AND PERFORMANCE OF AN UNDERGROUND STORMWATER TREATMENT DEVICES. MEMBRANE FILTRATION AND TREATMENT DEVICE THAT REMOVES POLLUTANTS FROM STORMWATER RUNOFF THROUGH THE USE OF MEMBRANE FILTRATION, FLUATATION AND PRECIPITATION.

JELLYFISH FILTER SPECIFICATIONS table with columns for CATEGORY, DESCRIPTION, and REVISION. Lists various components like CARTRIDGE SELECTION, INLET AND OUTLET PIPES, and ACCESSORIES.

USE AND INTERPRETATION OF DRAWINGS: GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE THE USE AND INTENT OF THE DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENTS, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDUMS AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT.

Table with columns for REVISIONS, BY, and DATE. Shows revision history for the drawing, including reissues for site plan and client approval.



CLIENT: THE HINDU HERITAGE CENTRE OF OTTAWA CARLETON. PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA. DRAWING TITLE: CONSTRUCTION DETAIL PLAN. PROJECT NO: 170132. DATE: JAN2020. Scale: 1:50.

Engineering logo for LRL ENGINEERING | INGENIERIE. Contact: 5430 Canotek Road | Ottawa, ON, K1J 9G2. Website: www.lrl.ca | (613) 842-3434. PROJECT NO: 170132. DATE: JAN2020. Scale: 1:50.