

HEAFEY GROUP  
 768 SAINT-JOSEPH BLVD  
 SUITE 100  
 GATINEAU QC  
 J8Y 4B8



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EAST RIDGE ORLEANS SUBDIVISION DRAWING LIST	
Sheet Number	Sheet Title
LEGEND	LEGEND SHEET
OS	OVERALL SERVICING
S1	SITE SERVICING PLAN
S2	SITE SERVICING PLAN
01	PALEO DRIVE
02	PALEO DRIVE
03	ROSALIA STREET
04	NAVAN ROAD
05	GAS BAR EASEMENT
06	STOMPIN' TOM LANE & EASEMET
07	BRIAN COBURN BOULEVARD
G1	GRADING PLAN
POND	SPILL OVER POND
DST	STORM DRAINAGE PLAN
DSAN	SANITARY DRAINAGE PLAN
SWM	PONDING PLAN
ESC	EROSION AND SEDIMENT CONTROL
D1	DETAILS AND CROSS SECTIONS
D2	DETAILS AND CROSS SECTIONS

# EAST RIDGE ORLEANS SUBDIVISION

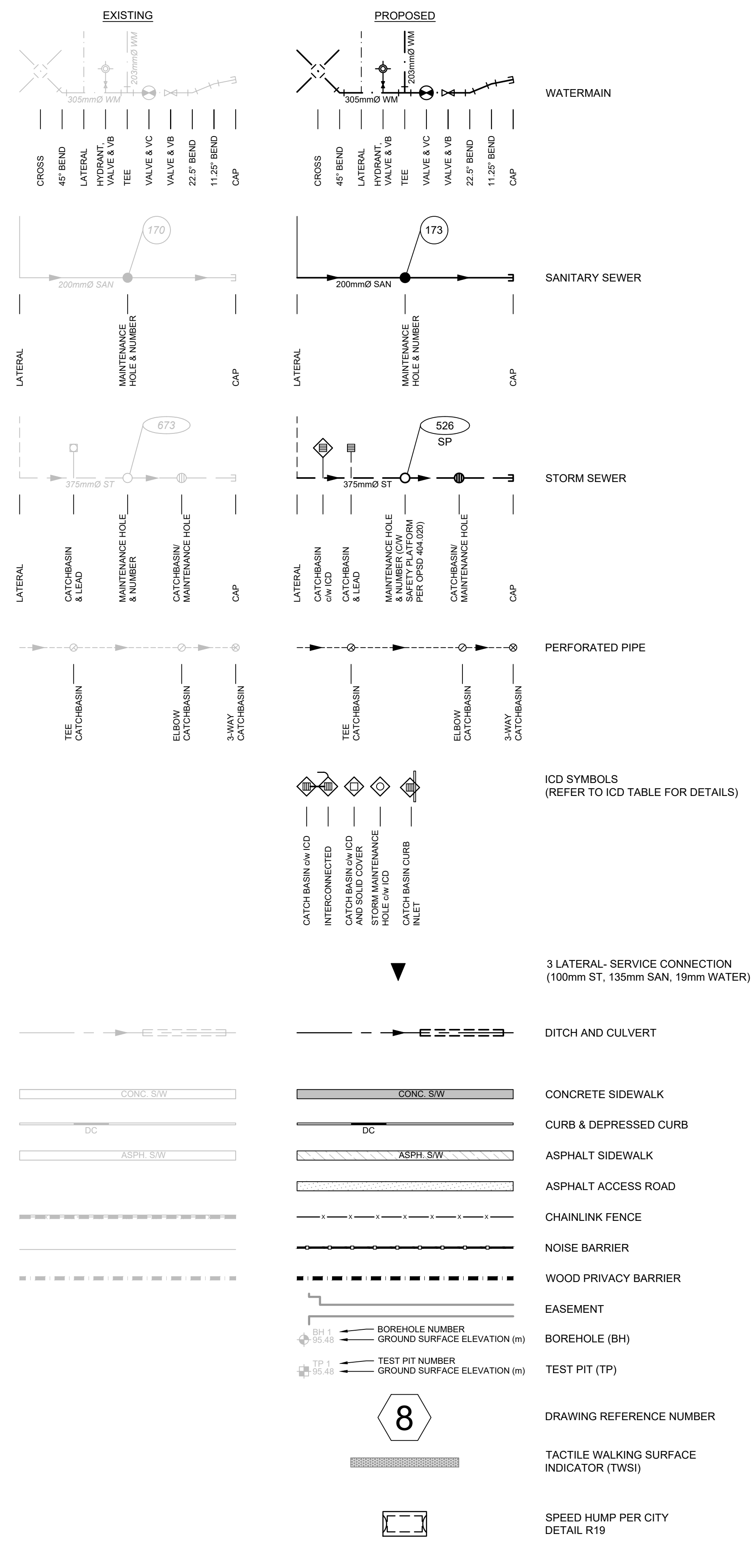
2983, 3053 & 3079 NAVAN ROAD & 2690 PAGE ROAD  
 OTTAWA, ONTARIO

ISSUED FOR REVIEW  
 SEPTEMBER 20, 2024  
 JLR JOB# 29899-002

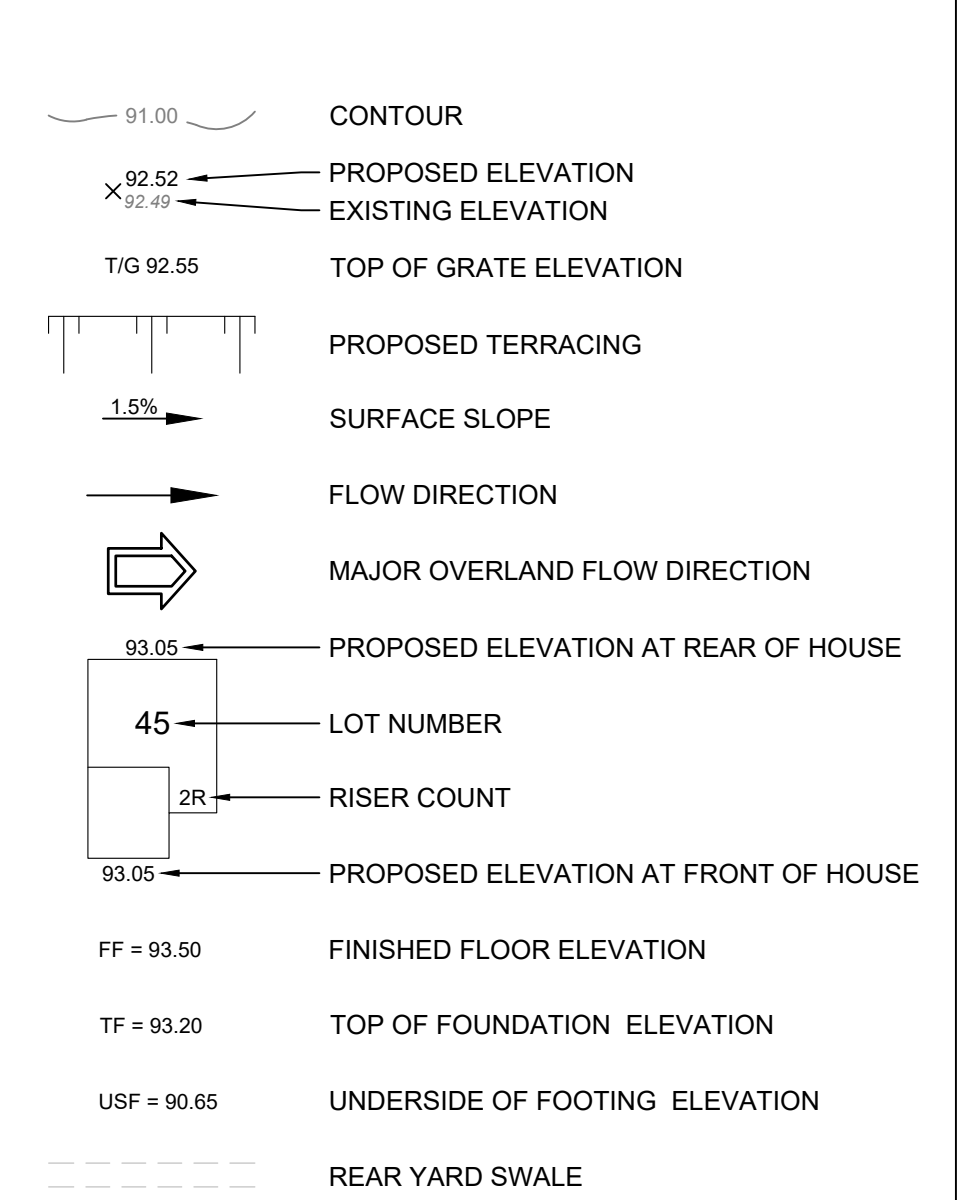


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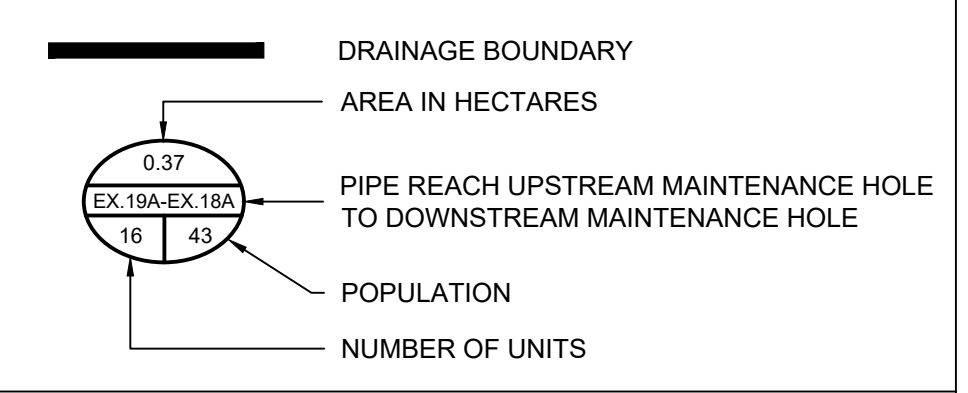
### SITE SERVICING



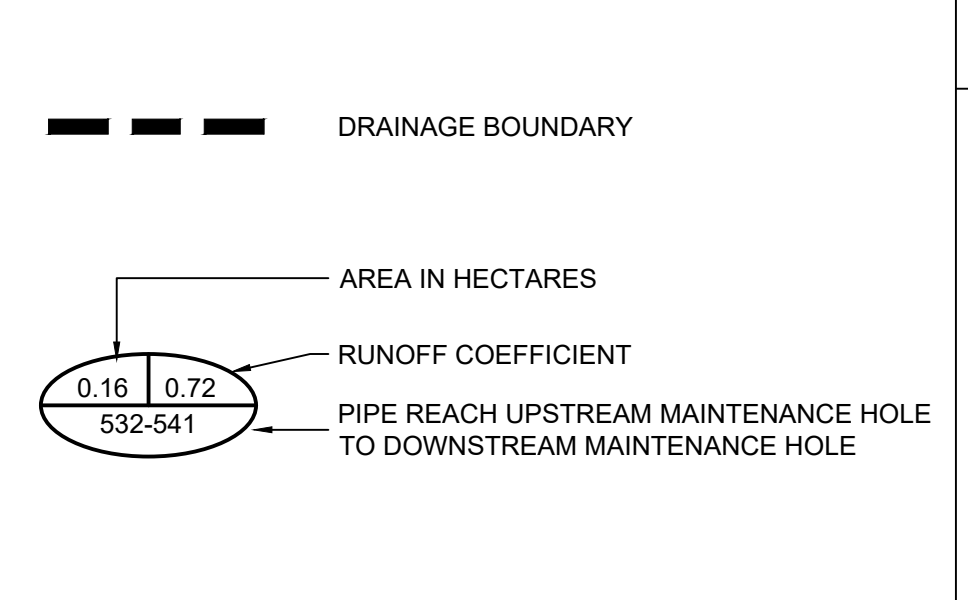
### GRADING



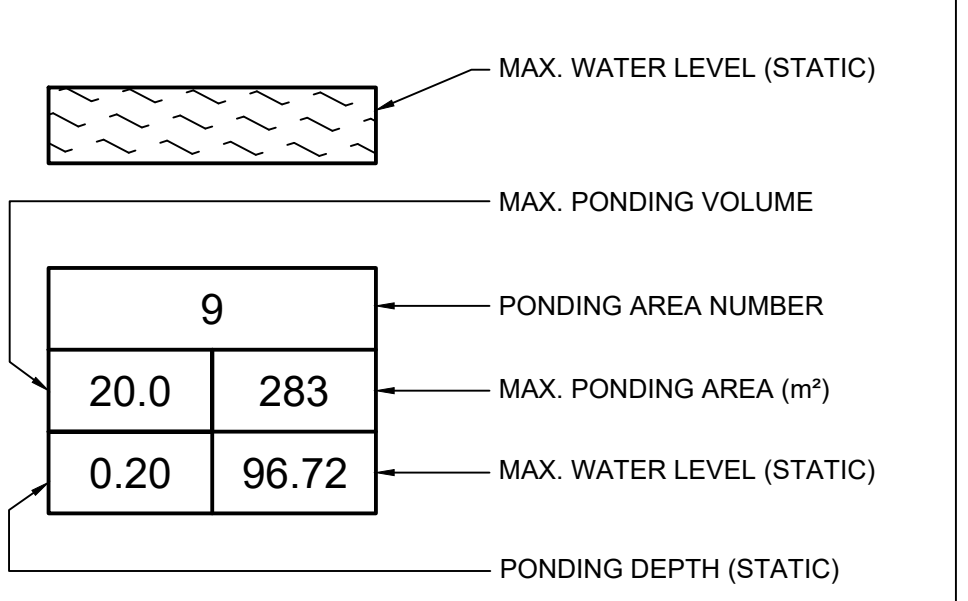
### SANITARY DRAINAGE



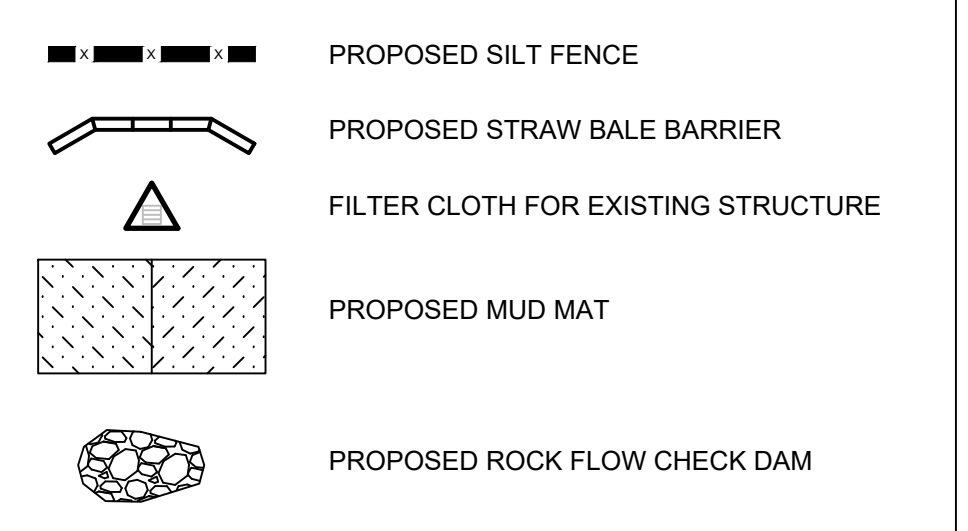
### STORM DRAINAGE



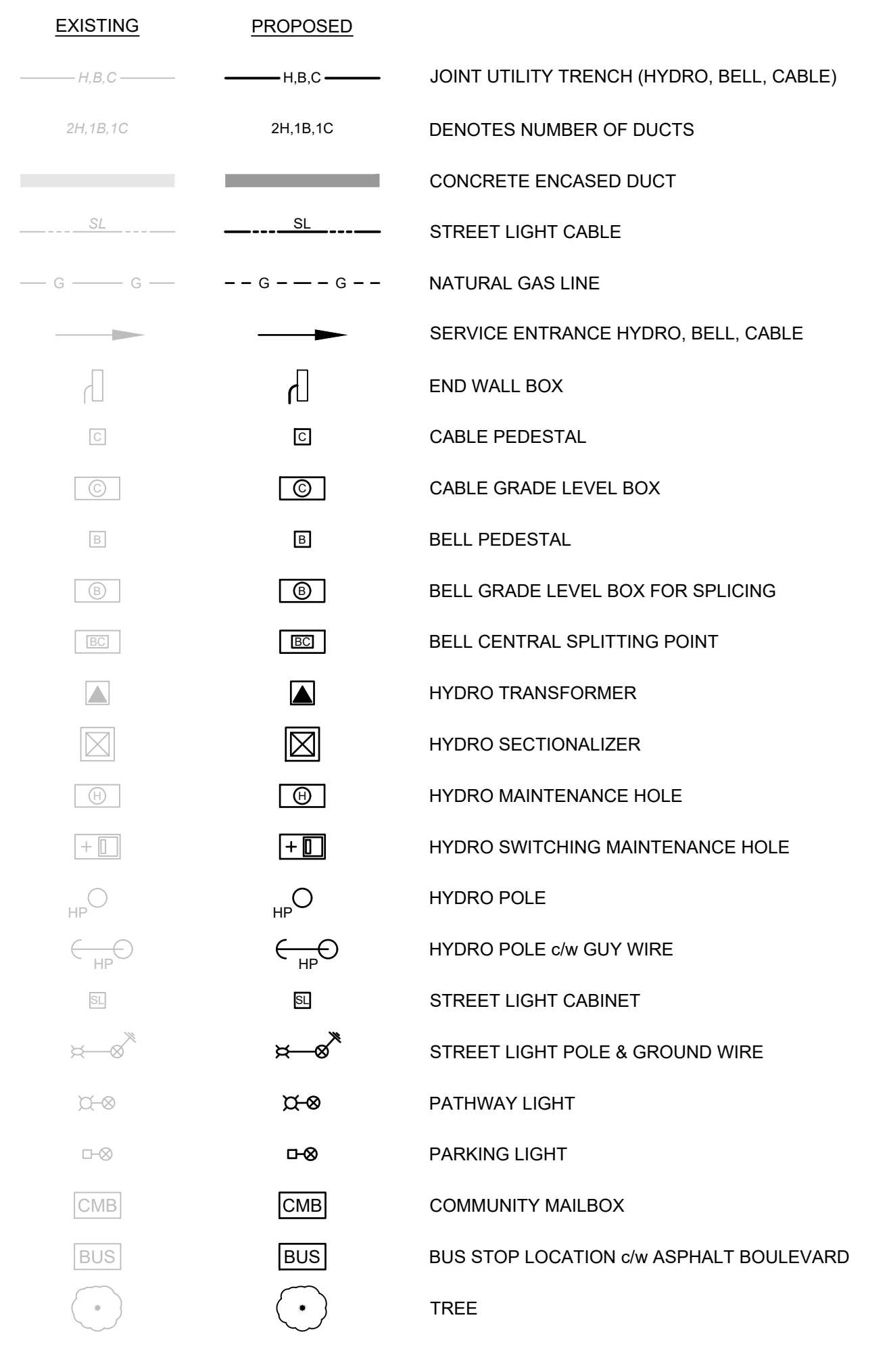
### PONDING (URBAN)



### EROSION & SEDIMENT CONTROL



### UTILITY



### GENERAL NOTES

- ALL MATERIALS, SERVICES AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE CITY OF OTTAWA CURRENT STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ON PLANS ARE IN METRES UNLESS OTHERWISE NOTED.
- DRAWINGS TO BE READ IN CONJUNCTION WITH:
  - UPDATED GEOTECHNICAL INVESTIGATION PROPOSED RESIDENTIAL DEVELOPMENT 2983, 3053 AND 3079 NAVAN ROAD OTTAWA, ONTARIO (DATED SEPTEMBER 13, 2024).
  - GEOTECHNICAL INVESTIGATION NAVAN ROAD SUBDIVISION OFF-SITE SERVICING NAVAN ROAD AND BRIAN COBURN BOULEVARD OTTAWA, ONTARIO (DATED SEPTEMBER 16, 2024)
  - LANDSLIDE HAZARD AND RISK ASSESSMENT REVISION 1, PROPOSED RESIDENTIAL DEVELOPMENT 2983, 3053 AND 3079 NAVAN ROAD OTTAWA, ONTARIO PREPARED BY PATERSON GROUP INC. (DATED JULY 4, 2024); AND
  - SITE SERVICING REPORT REVISION 3, EAST RIDGE ORLEANS SUBDIVISION, 2983, 3053 AND 3079 NAVAN ROAD & 2690 PAGE ROAD, OTTAWA, ONTARIO, PREPARED BY JLR (DATED SEPTEMBER 20, 2024).
- UNLESS OTHERWISE NOTED, DIMENSIONS FROM STREET LINE ARE TO THE CENTRELINE OF SEWER OR MAINTENANCE HOLE.
- THE INSIDE DIAMETER OF PIPES ARE REFERRED TO IN PLAN VIEW AND THE OUTSIDE DIAMETER OF PIPES ARE DRAWN IN PROFILE VIEW.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSURE RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL, REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ALL ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING WATERMANS, SEWERS AND UNDERGROUND STRUCTURES AS REQUIRED FOR ALL CONNECTIONS, RELOCATIONS AND BLANKINGS.
- EXCAVATION FOR THE INSTALLATION OF SERVICES ALONG OR IN PROXIMITY OF A BUILDING OR A STRUCTURE TO BE CONTAINED WITHIN A TRENCH BOX WIDTH AND ENSURE NO CONFLICT WITH ANY FUTURE FOOTINGS. SELECT SUBGRADE MATERIAL, COMPACTED TO 100% SPMD TO 1.0m BELOW EXISTING GRADE FOR FULL TRENCH WIDTH OF DISTURBED AREA SHALL BE USED FOR BACKFILL, INCLUDING ALONG ANY SEWERS AND WATERMANS ADJACENT TO A BUILDING OR OTHER STRUCTURE.
- ANY SERVICE LATERAL REQUIRED IN THE DRIVEWAY MUST BE SLEEVED THROUGH UNDER THE GARAGE FLOOR AREA.
- A DETAILED CONSTRUCTION AND CONTINGENCY PLAN IS REQUIRED TO BE DEVELOPED BEFORE ANY SEWER WORK IS TO BE PERFORMED ON PAGE.
- UTILITY BOXES (I.E. PEDESTALS, TRANSFORMERS, ETC.) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA GUIDELINES "GUIDELINES FOR UTILITY PEDESTALS WITH IN THE RIGHT-OF-WAY".
- CLAY SEALS TO BE AS PER CITY OF OTTAWA DETAIL S8 & THE GEOTECHNICAL INVESTIGATION REPORTS PREPARED BY EXP FOR THIS PROJECT DATED SEPTEMBER 13 2024.
- CLAY SEALS IN THE REAR YARD ARE TO BE PLACED TO THE UNDERSIDE OF THE TOPSOIL LAYER.

### WATERMAIN NOTES

- EXISTING WATERMAIN INFORMATION SHOWN ON PLANS IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND APPURTENANCES. REPORT ANY DISCREPANCIES TO ENGINEER.
- EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY CONTRACTOR. NO WATERMAIN SITE WORK IS TO COMMENCE UNLESS THE CITY OF OTTAWA WATER WORKS INSPECTOR AND/OR CONSULTANT ARE PRESENT ON SITE TO WITNESS WORK.
- WATERMAIN AND WATER SERVICE TO HAVE A MINIMUM OF 2.4 METERS OF COVER. INSULATION TO BE PROVIDED WHERE MINIMUM COVER CANNOT BE ACHIEVED AS PER CITY STANDARD W22 AND WHERE WHERE WATERMAIN IS IN PROXIMITY TO OPEN STRUCTURES AS PER CITY OF OTTAWA STANDARD W23. WATERMAIN TO BE INSTALLED TO DEPTHS SHOWN ON PLANS.
- WATER SERVICES TO BE EXTENDED WITH A CONTINUOUS PEX SECTION PAST THE STAND POST AND LEFT COILED 3.0m PAST THE PROPERTY LINE.
- ALL CURB STOPS TO BE LOCATED ON THE PROPERTY LINE UNLESS OTHERWISE NOTED. CURB STOP TO BE STAINLESS STEEL ROD.
- WATERMAIN THRUST BLOCKS TO BE CONSTRUCTED PER CITY OF OTTAWA DETAILS W25.3 AND W25.4. THRUST BLOCKS ARE REQUIRED AT ALL BENDS, TEES, PLUGS, DEAD END CAPS, VALVES, REDUCERS OR OTHER FITTINGS WHERE CHANGES OCCUR IN PIPE DIAMETER OR DIRECTION ALL IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 19mm WATER SERVICE FOR BLOCK 1 WEST END UNIT SHALL BEND WITHIN THE ROW TO CONNECT DIRECTLY TO THE 150mm WATERMAIN ON STOMPIN' TOM LANE.

### STORM SEWER NOTES

- STORM SEWERS TO BE REINFORCED CONCRETE, PVC, OR CITY APPROVED EQUIVALENT.
- STORM SEWERS WITHIN ROADWAY WITH LESS THAN 2.0m COVER SHALL BE INSULATED PER CITY OF OTTAWA DETAIL S35.
- STORM MAINTENANCE HOLES TO BE PRECAST CONCRETE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).
- ALL STORM MAINTENANCE HOLES SHALL HAVE WATERTIGHT GASKETS AND SHALL HAVE BLUE SKIN MEMBRANE UP TO FIRST JOINT ABOVE THE SEASONAL HIGH GROUNDWATER ELEVATION.
- ALL STORM MAINTENANCE HOLES ARE TO HAVE EXTENDED BASE PER DETAIL PROVIDED ON D1-DETAILS.
- STORM CATCH BASIN STRUCTURES TO BE 600mm x 600mm PRECAST CONCRETE OR APPROVED EQUIVALENT C/W 600mm DEEP DUMP AND FRAME AND COVER PER CITY OF OTTAWA DETAIL S19, UNLESS OTHERWISE NOTED.
- CBM's PER CITY OF OTTAWA DETAIL S29 SHALL HAVE SOLID FRAME AND COVER PER CITY OF OTTAWA DETAIL S19.
- REAR YARD CATCH BASIN TEES AND ELBOWS AS PER CITY OF OTTAWA DETAIL DRAWING S30 AND S31. 3-WAY REAR YARD CATCH BASINS TO BE BOSS 2000 MANUFACTURED BY ARMETEC OR APPROVED EQUIVALENT.
- STREET CATCH BASIN LEADS TO BE INSTALLED WITH 1% GRADIENT MINIMUM, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
- STORM SERVICES TO BE EXTENDED 1.0m PAST THE PROPERTY LINE FOR FUTURE BLOCKS 14, 15, 16, AND 17. STORM SERVICES TO BE EXTENDED 3.0m PAST THE PROPERTY LINE FOR RESIDENCES.
- 6m SUBDRAIN STUBS, WRAPPED IN FILTER SOCK, TO BE INSTALLED ON EITHER SIDE OF STREET CATCH BASINS LOCATED IN A ROADWAY SAGS AND ON THE HIGH SIDE ONLY (I.E. THE UPSTREAM SIDE) FOR STREET CATCH BASINS NOT LOCATED IN A ROADWAY SAGS.
- INLET CONTROL DEVICES TO BE VERTICAL SLIDING TYPE FOR REMOVAL AND CLEANING AS PER CITY OF OTTAWA STANDARD.

### SANITARY SEWER NOTES

- SANITARY SEWERS TO BE PVC DR-35.
- SANITARY SERVICES TO BE EXTENDED 1.0m PAST THE PROPERTY LINE FOR FUTURE BLOCKS 14, 15, 16, AND 17. SANITARY SERVICES TO BE EXTENDED 3.0m PAST THE PROPERTY LINE FOR RESIDENCES.
- SANITARY MAINTENANCE HOLES TO BE PRECAST CONCRETE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD). ALL SANITARY MAINTENANCE HOLE COVERS TO BE PER CITY OF OTTAWA DETAIL S24.
- ALL SANITARY MAINTENANCE HOLES SHALL HAVE WATERTIGHT GASKETS AND SHALL HAVE BLUE SKIN MEMBRANE UP TO FIRST JOINT ABOVE SEASONAL HIGH GROUNDWATER ELEVATION.
- ALL SANITARY MAINTENANCE HOLES ARE TO HAVE EXTENDED BASE PER DETAIL PROVIDED ON D1-DETAILS.
- CONTRACTOR TO INSTALL TEMPORARY INLET CONTROL DEVICES (ICDs) IN SANITARY MAINTENANCE HOLE 01 ON NAVAN ROAD c/w 48mm ORIFICE DIAMETER. THE ICD SHALL BE INSTALLED AND OPERABLE AT THE ONSET OF SEWER CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL WRITTEN NOTIFICATION BY THE ENGINEER TO BE REMOVED. REFER TO DRAWING D1 FOR TEMPORARY ICD DETAIL.

### GRADING NOTES

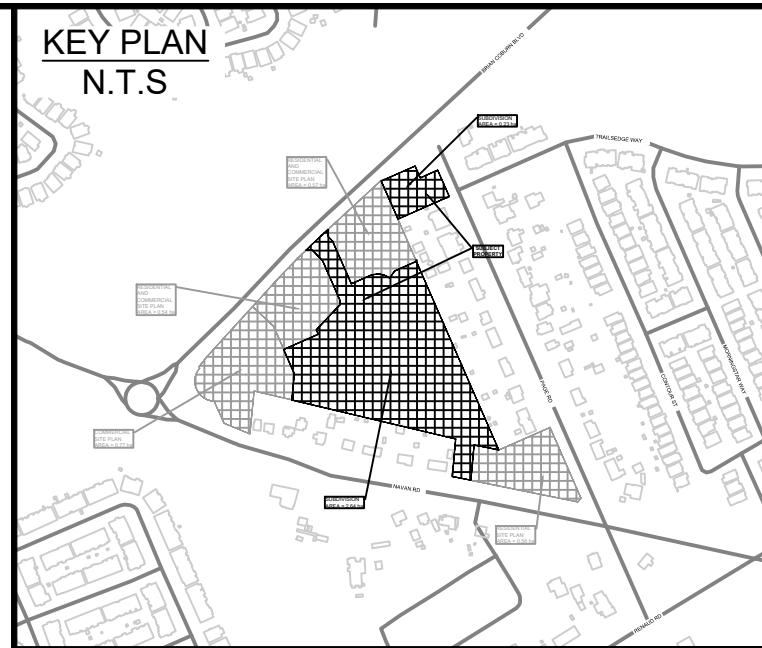
- MATCH EXISTING ELEVATIONS AT ALL EXTERIOR PROPERTY LINES OR AS SHOWN. ENSURE POSITIVE DRAINAGE TOWARD A SUITABLE OUTLET WHETHER INDICATED OR NOT.
- UNDERSIDE OF FOOTING, TOP OF FOUNDATIONS AND FINISHED FLOOR ELEVATIONS HAVE BEEN SET FOR GRADING DRAINAGE PURPOSES ONLY. BUILDERS SHOULD CONSULT THE GEOTECHNICAL REPORT PREPARED FOR THIS SUBDIVISION PRIOR TO CONSTRUCTION. BUILDERS SHOULD OBTAIN A SUBGRADE INSPECTION REPORT FROM A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
- ROADWAY SUBGRADE SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF GRANULARS, ABOVE WOVEN GEOTEXTILE (IF REQUIRED). ROADWAY MATERIAL AND COMPACTION INSPECTION TO BE CARRIED OUT BY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED BY THE MUNICIPALITY.
- ROAD STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS SUBDIVISION AT MINIMUM.
 

**LOCAL ROAD:**

  - 50mm WEAR COURSE - SP 12.5
  - 60mm BINDER COURSE - SP 19.0
  - 50mm BASE - OPSS GRANULAR 'A' CRUSHED STONE COMPACTED TO 100% SPMD
  - 600mm - OPSS GRANULAR 'B' TYPE I COMPACTED TO 100% SPMD
- AT ALL CONNECTION POINTS REINSTATE SURFACES TO EXISTING CONDITION OR BETTER:
  - ASPHALT RESTORATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING R10
  - PAVEMENT STRUCTURE, I.E. THICKNESS OF GRANULARS AND ASPHALT LAYERS SHALL MATCH EXISTING
  - BOULEVARDS SHALL BE REINSTATED WITH 100mm TOP SOIL AND SOD
- CURBS TO BE:
  - BARRIER TYPE PER CITY OF OTTAWA STANDARD SC1.1.
  - ALL CURBS TO BE BARRIER TYPE:
    - EXCEPT WEST SIDE OF PALEO STREET FROM STA. 0+180 TO STA. 0+332
    - EXCEPT WEST SIDE OF ROSALIA STREET FROM STA. 1+112 TO STA. 1+190
    - EXCEPT EAST SIDE OF ROSALIA STREET FROM STA. 1+100 TO STA. 1+215
- MOUNTABLE TYPE PER CITY OF OTTAWA STANDARD SC1.3.
  - WEST SIDE OF PALEO STREET FROM STA. 0+180 TO STA. 0+332
  - WEST SIDE OF ROSALIA STREET FROM STA. 1+112 TO STA. 1+190
  - EAST SIDE OF ROSALIA STREET FROM STA. 1+100 TO STA. 1+215
- ALL SIDEWALKS AND CURB RAMPS TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS SC6, SC7, SC7.2 & SC7.3
- ALL STREETS TO HAVE A CROSS-SECTIONAL SLOPE OF 3.0%

### EROSION AND SEDIMENT CONTROL NOTES

- DURING CONSTRUCTION ACTIVITIES APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES, AS OUTLINED IN MNR'S "GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES", SHALL BE IMPLEMENTED TO TRAP SEDIMENT ON-SITE. (REFER TO EROSION & SEDIMENT CONTROL PLAN, DRAWING ESC.)



06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

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CONSULTANT:

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CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING:

**LEGEND SHEET**

DESIGN: TR

DRAWN: KT

CHECKED: KF

JLR #: 29899-002

DRAWING #:

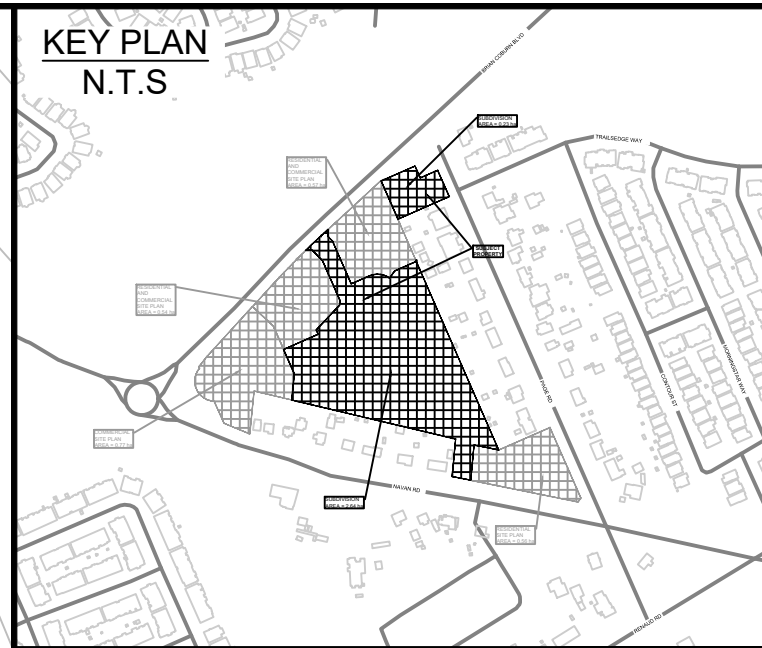
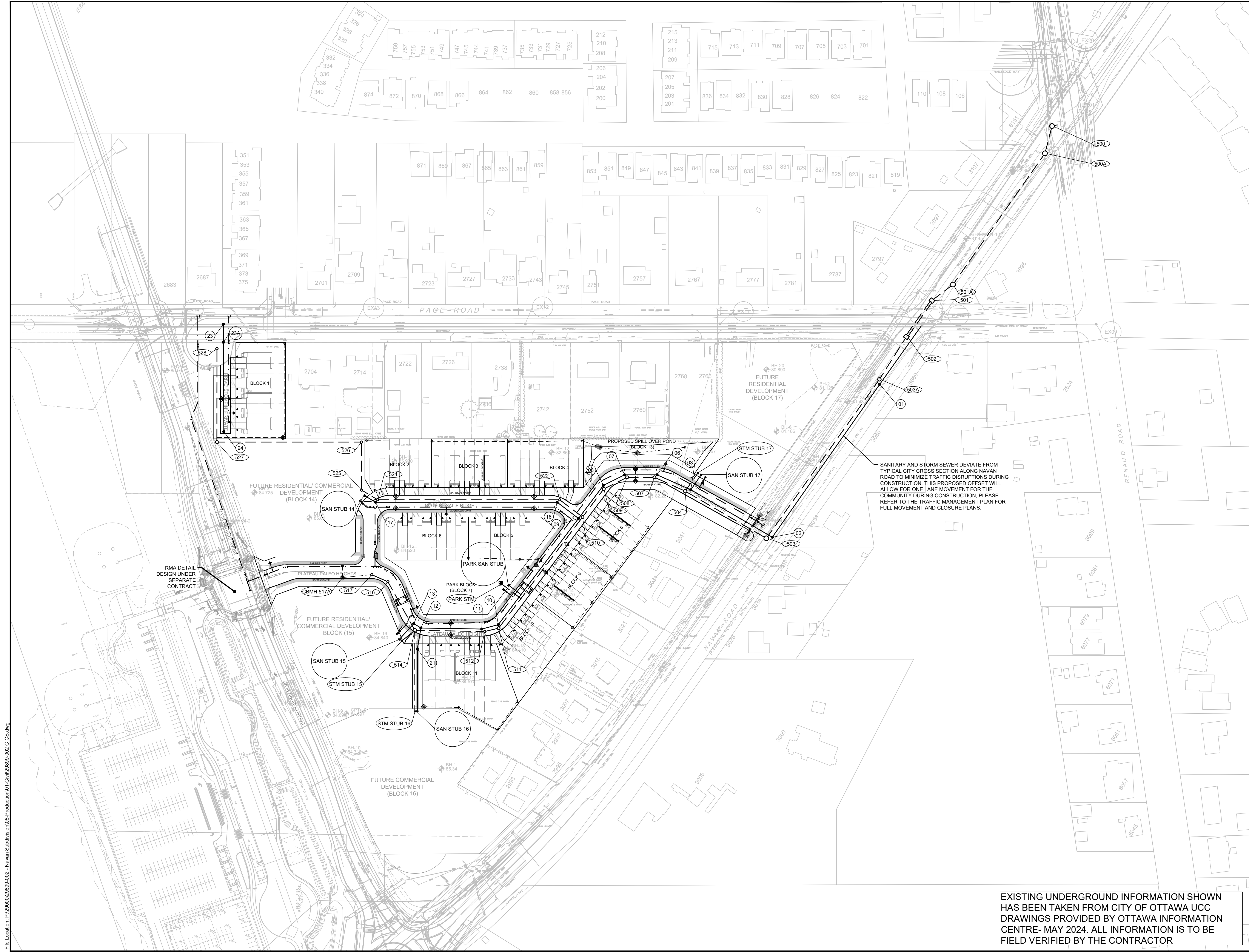
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FILE DATE: September 20, 2024 3:41:15 PM

CITY PLAN No. 18572

CITY FILE No. D07-16-21-0027





**LEGEND**

- PROPOSED WATERMAIN, VALVE & HYDRANT
- EXISTING WATERMAIN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORM SEWER & MANHOLE
- STEPPED FOOTINGS
- FIREWALL
- EXISTING CULVERT
- PROPOSED CULVERT
- DRAWING NUMBER
- RII-RAP TO GROUND 610/610 (TYPE B)
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN c/w ICD
- PROPOSED CATCH BASIN & LEAD
- PROPOSED TEE CATCH BASIN
- PROPOSED 3-WAY CATCH BASIN
- CONC. SIDEWALK
- ASPHALT
- INFILTRATION TRENCH
- TACTILE WALKING SURFACE INDICATOR (TWSI)
- SPEED HUMP PER CITY DETAIL R19

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ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

**OVERALL SERVICING**

DESIGN: TR

DRAWN: KT

CHECKED: KF

JLR #: 29899-002

DRAWING #:

**OS**

SANITARY AND STORM SEWER DEVIATE FROM TYPICAL CITY CROSS SECTION ALONG NAVAN ROAD TO MINIMIZE TRAFFIC DISRUPTIONS DURING CONSTRUCTION. THIS PROPOSED OFFSET WILL ALLOW FOR ONE LANE MOVEMENT FOR THE COMMUNITY DURING CONSTRUCTION, PLEASE REFER TO THE TRAFFIC MANAGEMENT PLAN FOR FULL MOVEMENT AND CLOSURE PLANS.

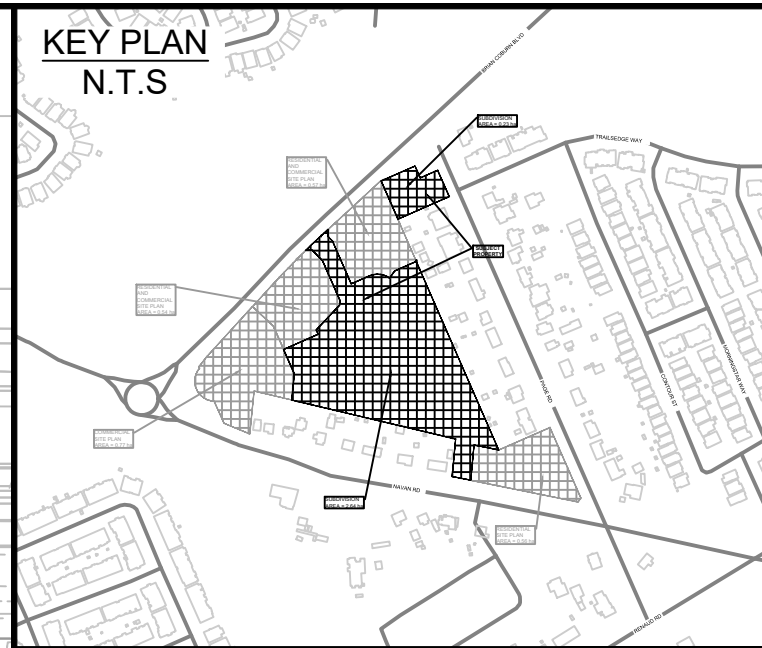
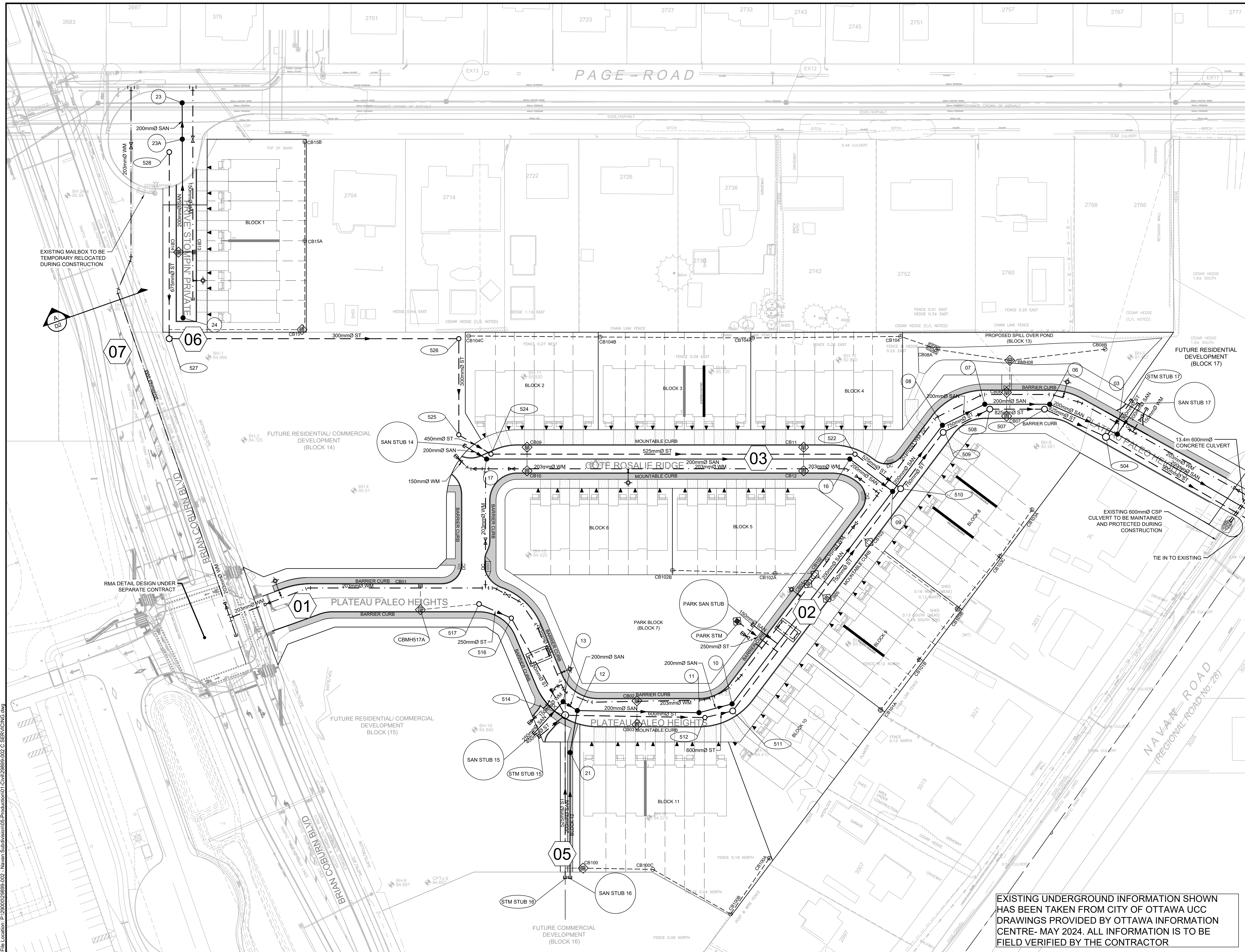
RMA DETAIL DESIGN UNDER SEPARATE CONTRACT

EXISTING UNDERGROUND INFORMATION SHOWN HAS BEEN TAKEN FROM CITY OF OTTAWA UCC DRAWINGS PROVIDED BY OTTAWA INFORMATION CENTRE- MAY 2024. ALL INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR

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PLOT DATE September 20, 2024 3:41:55 PM CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027





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- EXISTING WATERMAIN, VALVE & HYDRANT
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ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

**SITE SERVICING PLAN**

DESIGN: TR

DRAWN: KT

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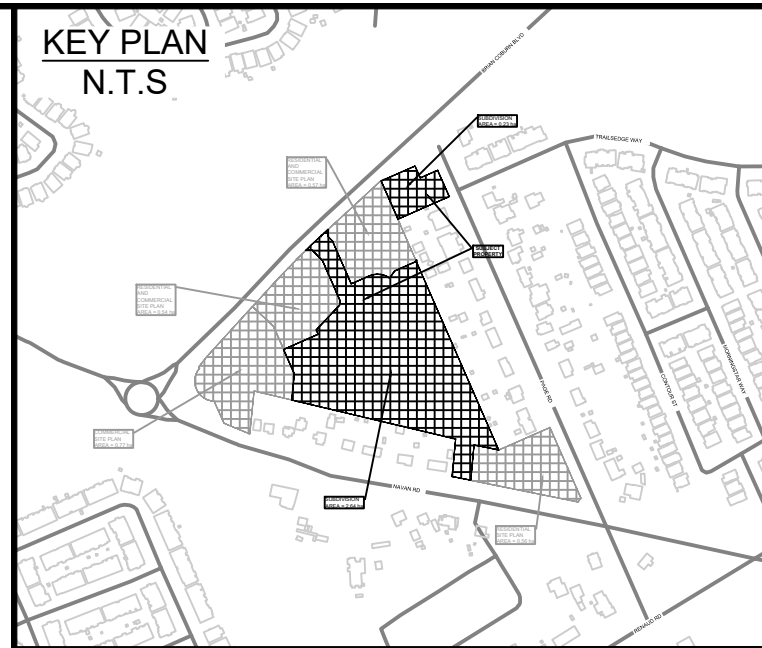
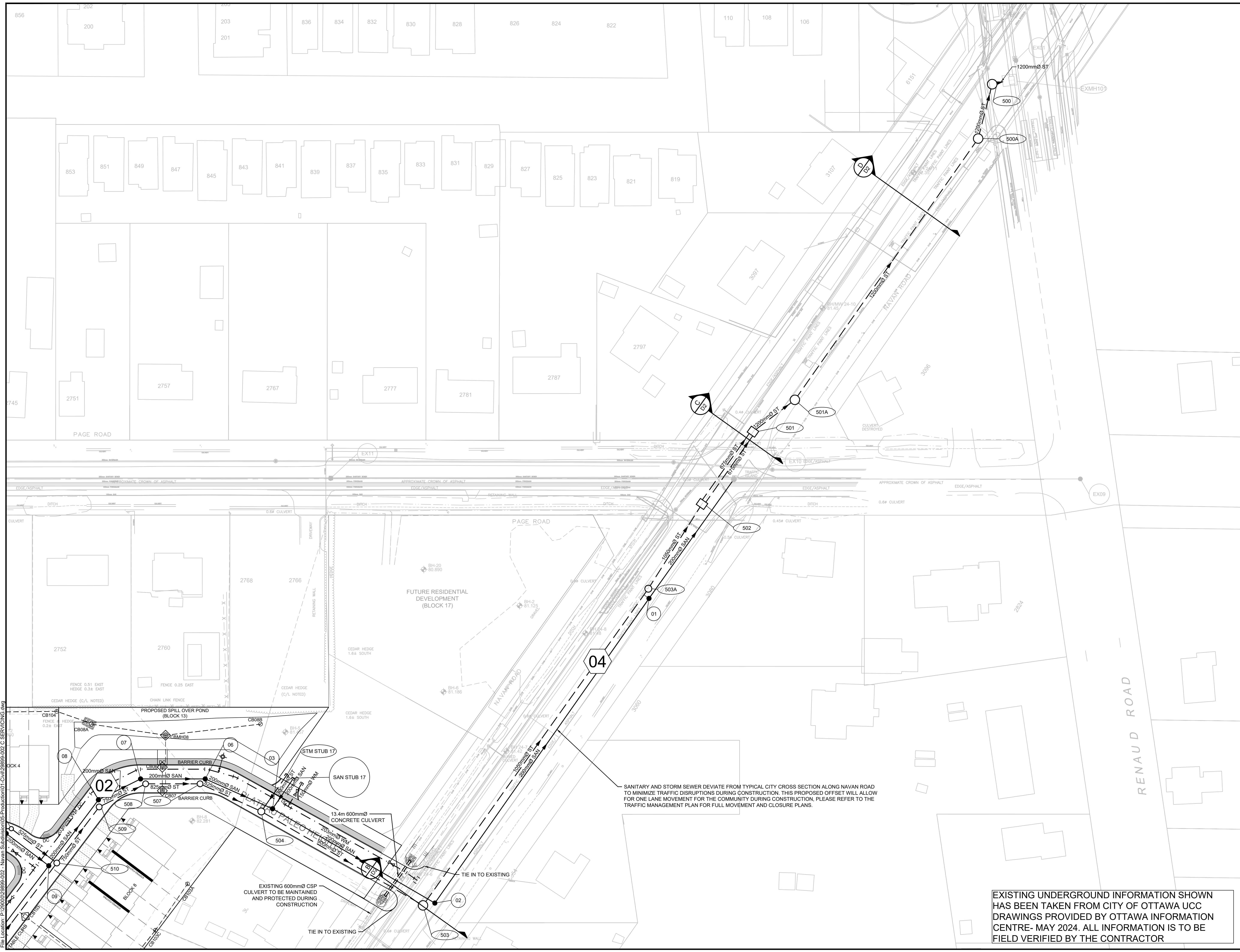
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PLOT DATE September 20, 2024 3:42:40 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027





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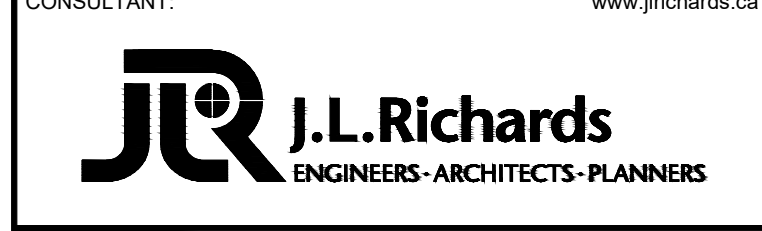
- PROPOSED WATERMAIN, VALVE & HYDRANT
- EXISTING WATERMAIN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORM SEWER & MANHOLE
- STEPPED FOOTING
- FIREWALL
- EXISTING CULVERT
- PROPOSED CULVERT
- RIP-RAP TO CRSD 610/610 (TYPE B)
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN w/ ICD
- PROPOSED CATCH BASIN & LEAD
- PROPOSED TEE CATCHBASIN
- PROPOSED 3-WAY CATCHBASIN
- CONC. SIDEWALK
- ASPHALT
- INFILTRATION TRENCH
- TACTILE WALKING SURFACE INDICATOR (TWSI)
- SPEED HUMP PER CITY DETAIL R19

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

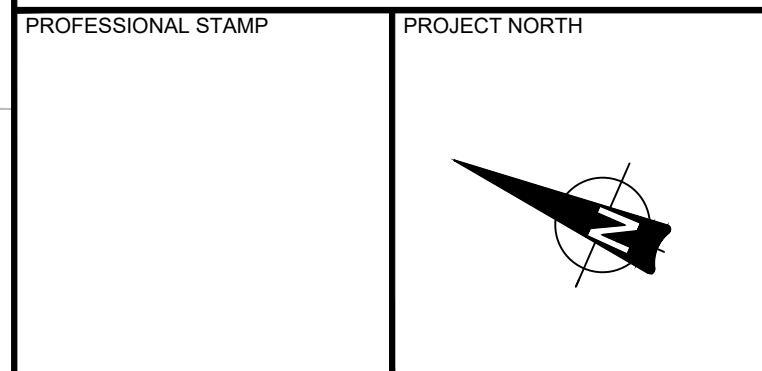
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



CONSULTANT:



PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

**SITE SERVICING PLAN**

DESIGN: TR	DRAWING #:
DRAWN: KT	<b>S2</b>
CHECKED: KF	
JLR #: 29899-002	

EXISTING UNDERGROUND INFORMATION SHOWN HAS BEEN TAKEN FROM CITY OF OTTAWA UCC DRAWINGS PROVIDED BY OTTAWA INFORMATION CENTRE- MAY 2024. ALL INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR

SANITARY AND STORM SEWER DEVIATE FROM TYPICAL CITY CROSS SECTION ALONG NAVAN ROAD TO MINIMIZE TRAFFIC DISRUPTIONS DURING CONSTRUCTION. THIS PROPOSED OFFSET WILL ALLOW FOR ONE LANE MOVEMENT FOR THE COMMUNITY DURING CONSTRUCTION. PLEASE REFER TO THE TRAFFIC MANAGEMENT PLAN FOR FULL MOVEMENT AND CLOSURE PLANS.

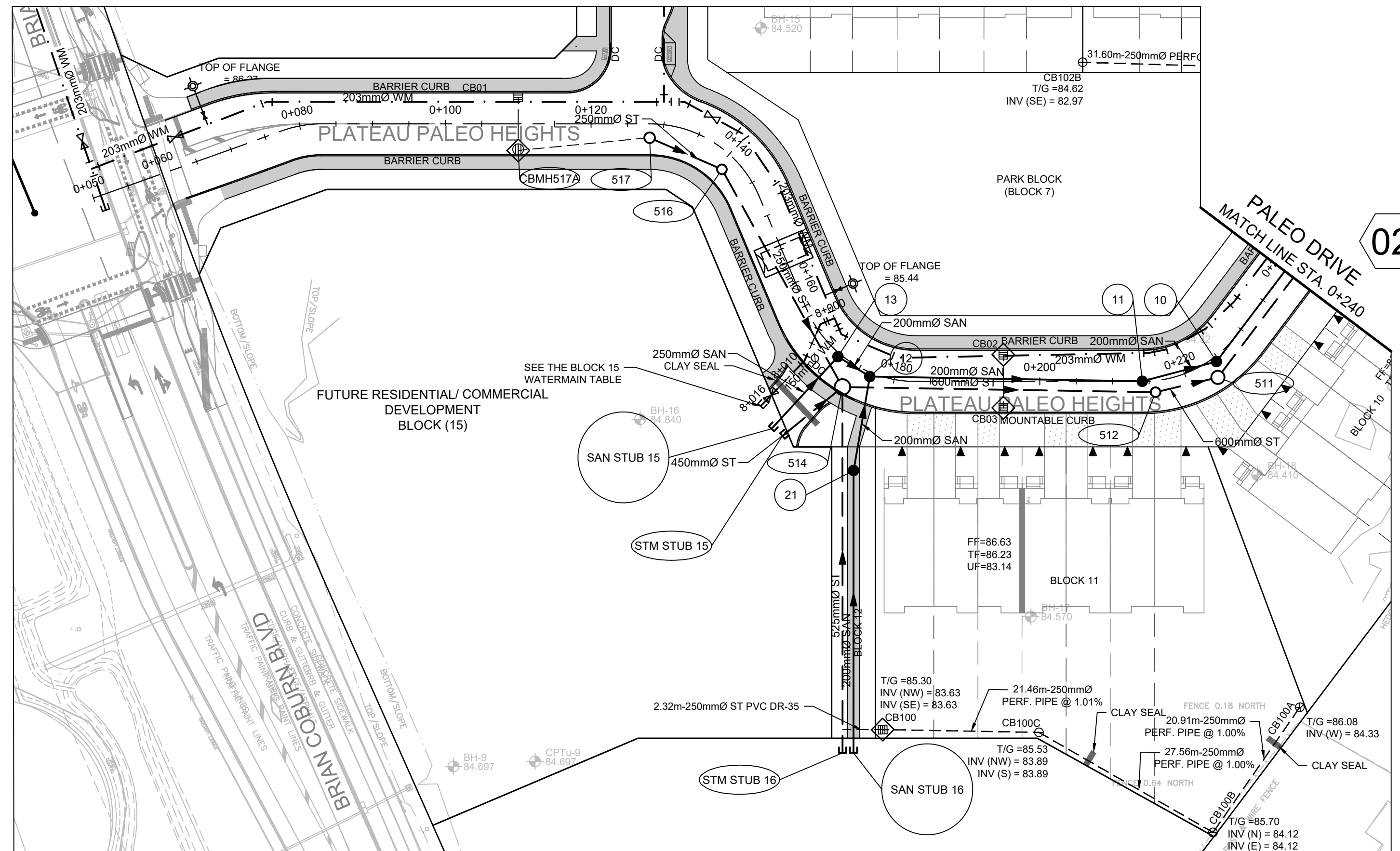
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PLOT DATE September 20, 2024 14:27 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027



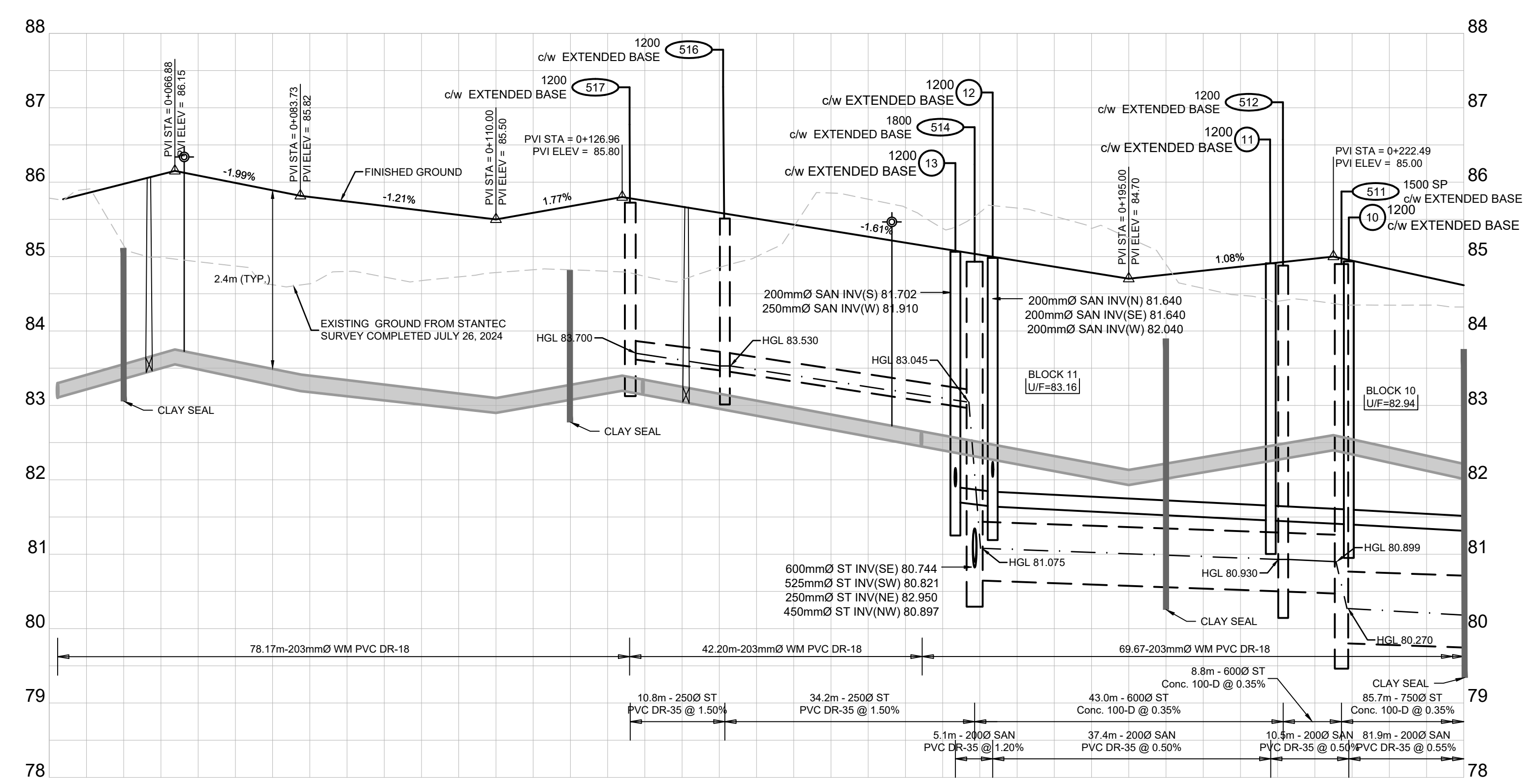
# 03 PALEO DRIVE

ROSALIA STREET

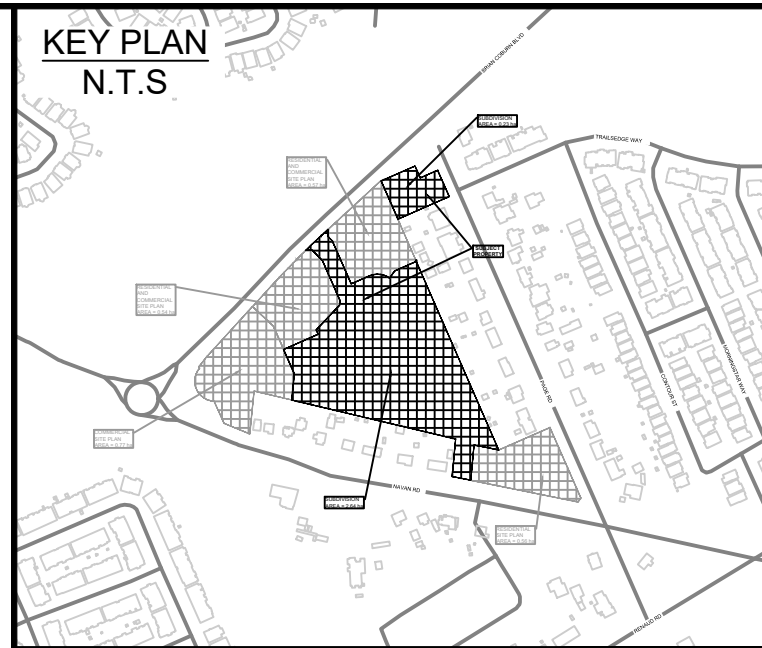


NO.	DETAIL	STATION	FINISHED GRADE	TOP OF WM
1	200 x 150 TEE	8+000	85.04	82.64
2	45° HORIZONTAL BEND	8+003.21	85.14	82.64
3	22.5° HORIZONTAL BEND	8+008.22	85.00	82.60
4	VALVE	8+014.99	85.30	82.88
5	CAP	8+017.04	85.28	82.88

# 05 GAS BAR EASEMENT



DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
85.708	83.305			0+050.00
85.692	83.320			0+051.13
85.977	83.324			0+060.00
85.977	83.354			0+065.06
85.977	83.354			0+065.13
85.977	83.354			0+076.88
85.953	83.353			0+080.00
85.891	83.341			0+100.00
85.620	83.220			0+116.01
85.620	83.220			0+120.00
85.620	83.220			0+125.64
85.620	83.220			0+125.71
85.620	83.220			0+132.02
85.620	83.220			0+135.53
85.620	83.220			0+140.00
85.620	83.220			0+143.45
85.620	83.220			0+147.13
85.620	83.220			0+155.00
85.620	83.220			0+153.18
85.620	83.220			0+157.18
85.620	83.220			0+172.75
85.620	83.220			0+175.30
85.620	83.220			0+180.00
85.620	83.220			0+193.00
85.620	83.220			0+200.00
85.620	83.220			0+215.28
85.620	83.220			0+217.07
85.620	83.220			0+217.14
85.620	83.220			0+223.57
85.620	83.220			0+226.63
85.620	83.220			0+232.49
85.620	83.220			0+240.00



	PROPOSED WATERMAIN, VALVE & HYDRANT
	EXISTING WATERMAIN, VALVE & HYDRANT
	EXISTING SANITARY SEWER & MANHOLE
	EXISTING STORM SEWER & MANHOLE
	PROPOSED SANITARY SEWER & MANHOLE
	PROPOSED STORM SEWER & MANHOLE
	PROPOSED FORCE MAIN
	HYDRAULIC GRADE LINE (HGL)
	STEPPED FOOTING
	FIRE WALL
	PROPOSED CULVERT
	DRAWING NUMBER
	RIP-RAP TO OPSD 810.010 (TYPE B)
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN c/w CO
	PROPOSED CATCH BASIN & LEAD
	PROPOSED TEE CATCH BASIN
	PROPOSED 3-WAY CATCH BASIN
	MANHOLE NUMBER AND SIZE (mm) c/w SAFETY PLATFORM
	PER OPSD 404.000
	MANHOLE NUMBER AND SIZE (mm) c/w EXTENDED BASE
	PER DETAIL D01 ON D'3
	LATERAL - SERVICE CONNECTION (100mm ST, 135 SAN, 19 mm Water)
	TACTILE WALKING INDICATOR STRIP (TWIS)
	CONC. SIDEWALK
	ASPHALT
	INFILTRATION TRENCH

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

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SCALE: 1:500H, 1:50V

CLIENT:

CONSULTANT:

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

**PLAN AND PROFILE PALEO DRIVE STA. 0+050 TO 0+240**

DESIGN: TR

DRAWN: KT

CHECKED: KF

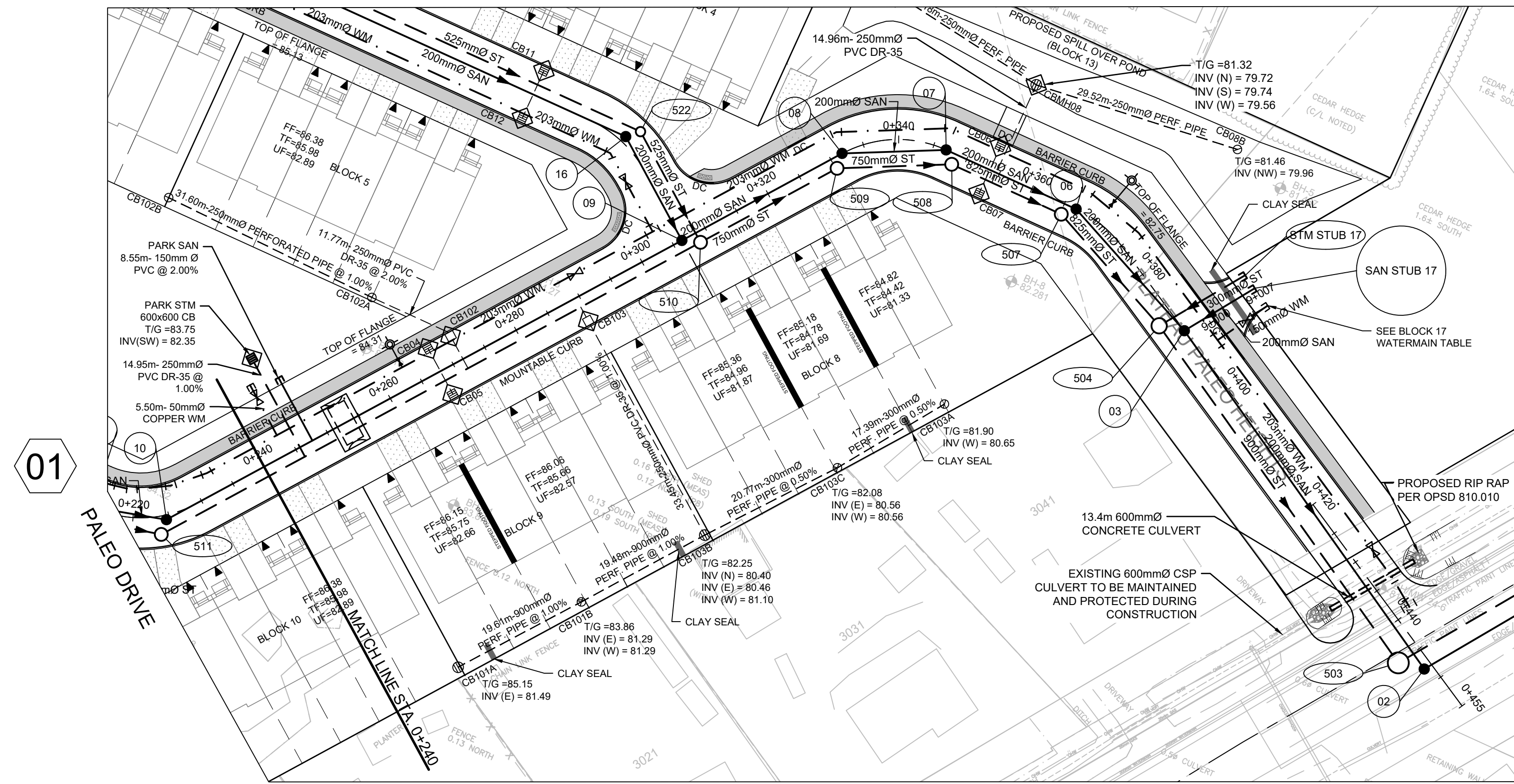
JLR # : 29899-002

DRAWING #:

**01**

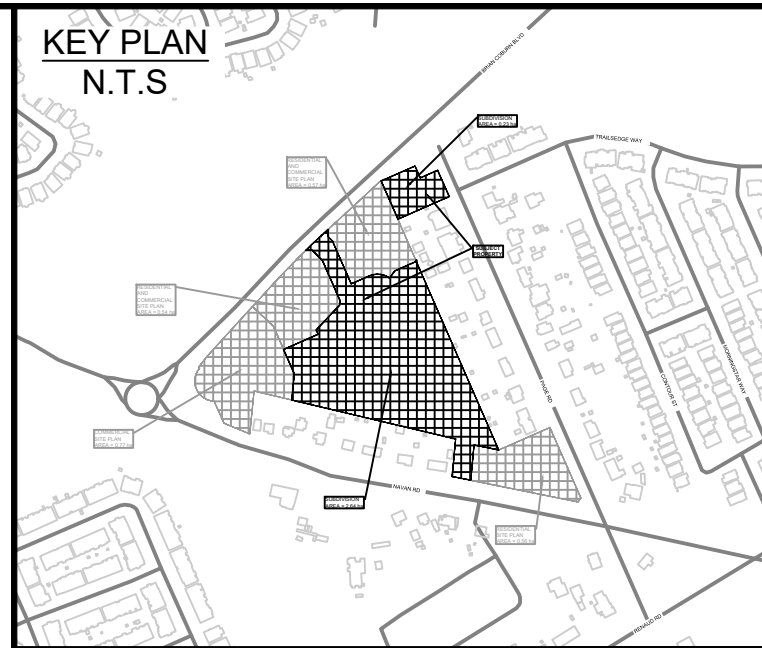


# PALEO DRIVE



### WATERMAIN TABLE STA. 9+000 TO 9+007.24 BLOCK 17 PVC DR-18 CL.50

NO.	DETAIL	STATION	FINISHED GRADE	TOP OF WM
1	200 x 200 TEE	9+000	82.32	79.92
2	VALVE	9+003.25	82.38	79.98
3	CAP	9+007.25	82.38	79.98



- #### LEGEND
- PROPOSED WATERMAIN, VALVE & HYDRANT
  - EXISTING WATERMAIN, VALVE & HYDRANT
  - EXISTING SANITARY SEWER & MANHOLE
  - EXISTING STORM SEWER & MANHOLE
  - PROPOSED SANITARY SEWER & MANHOLE
  - PROPOSED STORM SEWER & MANHOLE
  - PROPOSED FORCE MAIN
  - HYDRAULIC GRADE LINE (HGL)
  - STEPPED FOOTING
  - FIREWALL
  - PROPOSED CULVERT
  - DRAWING NUMBER
  - RIP-RAP TO OPSD 810.010 (TYPE B)
  - EXISTING CATCH BASIN
  - PROPOSED CATCH BASIN c/w CO
  - PROPOSED CATCH BASIN & LEAD
  - PROPOSED TEE CATCH-BASIN
  - PROPOSED S-WAY CATCH-BASIN
  - MANHOLE NUMBER AND SIZE (mm) c/w SAFETY PLATFORM
  - PER OPSD 404.000
  - MANHOLE NUMBER AND SIZE (mm) c/w EXTENDED BASE
  - PER DETAIL D01 ON D'3
  - 3 LATERAL - SERVICE CONNECTION (100mm ST, 135 SAN, 19 mm Water)
  - TACTILE WALKING INDICATOR STRIP (TWS)
  - CONC. SIDEWALK
  - ASPHALT
  - INFILTRATION TRENCH

No.	ISSUE / REVISION	DDMMYY
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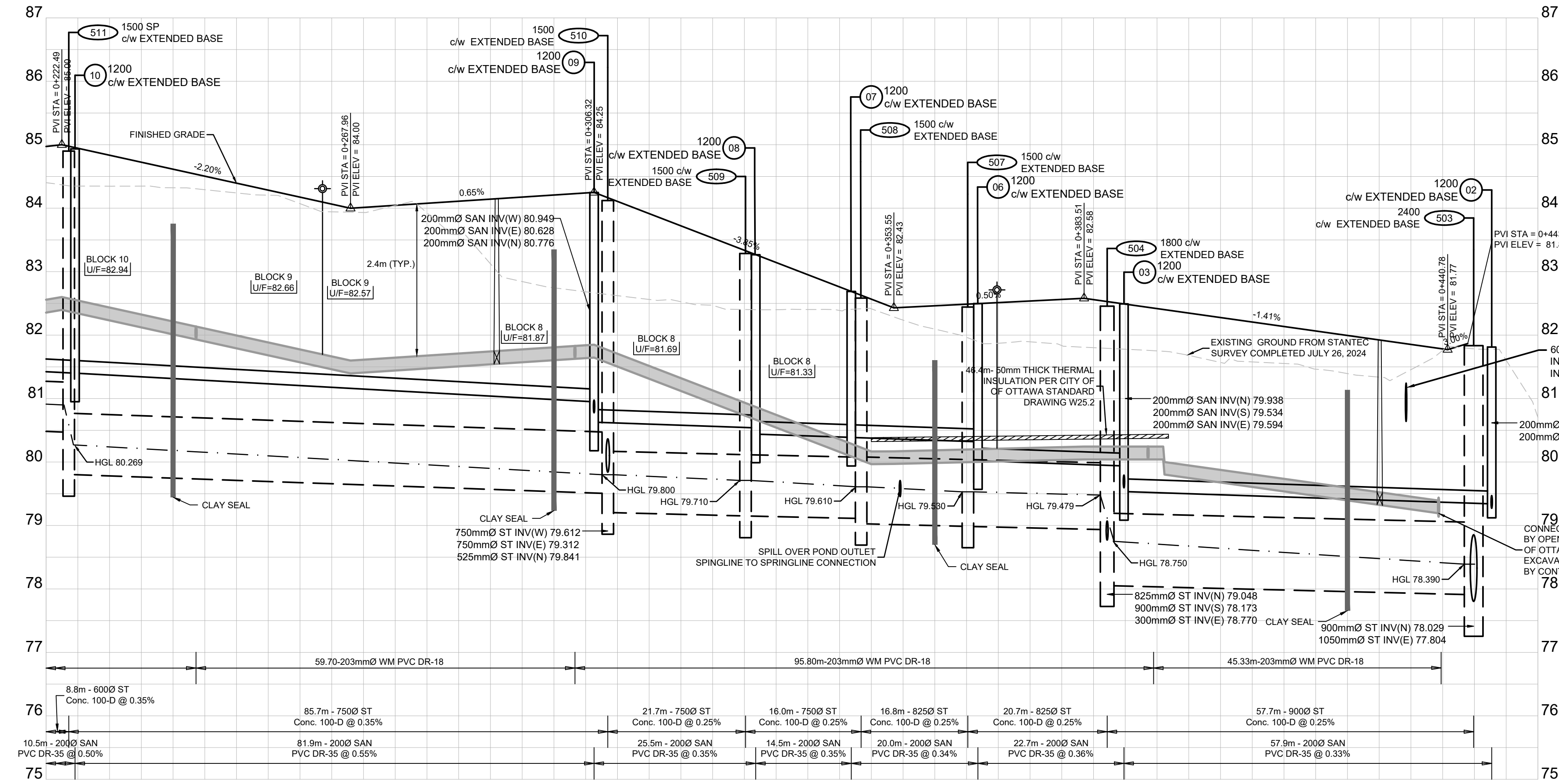
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. SCALE: 1:500 H, 1:50V

CLIENT: **Heafey GROUP**

CONSULTANT: **J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS**

CONSULTANT: **J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS**

PROFESSIONAL STAMP: PROJECT NORTH



DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
84.973	82.558	80.584	81.453	0+220.00
		80.585	81.400	0+225.37
		79.912	81.400	0+228.96
				0+232.49
				0+240.00
				0+245.63
				0+252.99
				0+260.00
				0+265.55
				0+280.00
				0+300.00
				0+305.32
				0+308.46
				0+320.00
				0+332.39
				0+337.15
				0+337.78
				0+340.25
				0+345.05
				0+348.84
				0+348.39
				0+360.00
				0+367.27
				0+368.21
				0+368.79
				0+370.02
				0+380.00
				0+387.15
				0+388.79
				0+395.60
				0+395.68
				0+402.00
				0+408.38
				0+444.88
				0+447.72
				0+450.00

PROJECT: **EAST RIDGE ORLEANS SUBDIVISION**  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING: **PLAN AND PROFILE PALEO DRIVE STA. 0+240 TO 0+455**

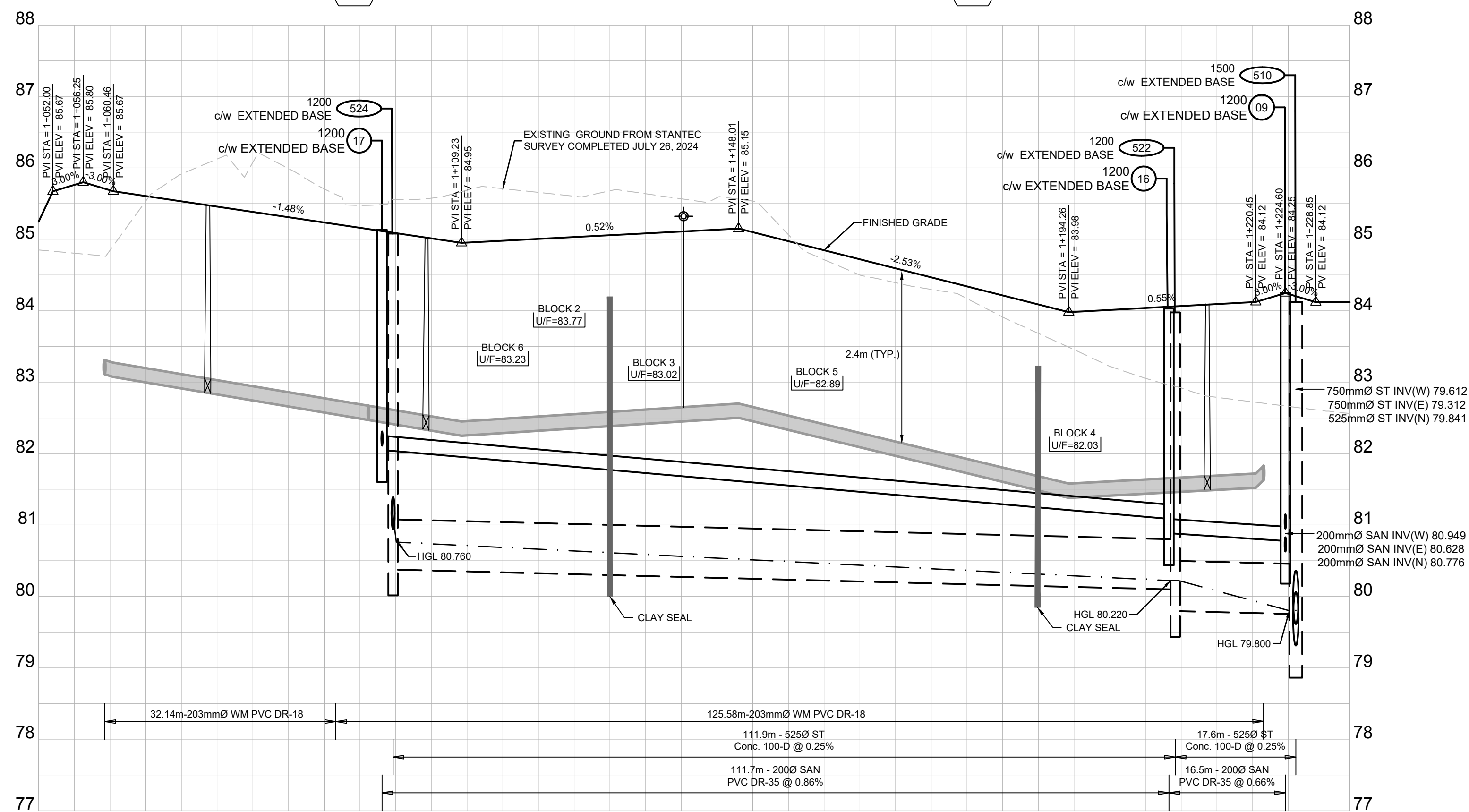
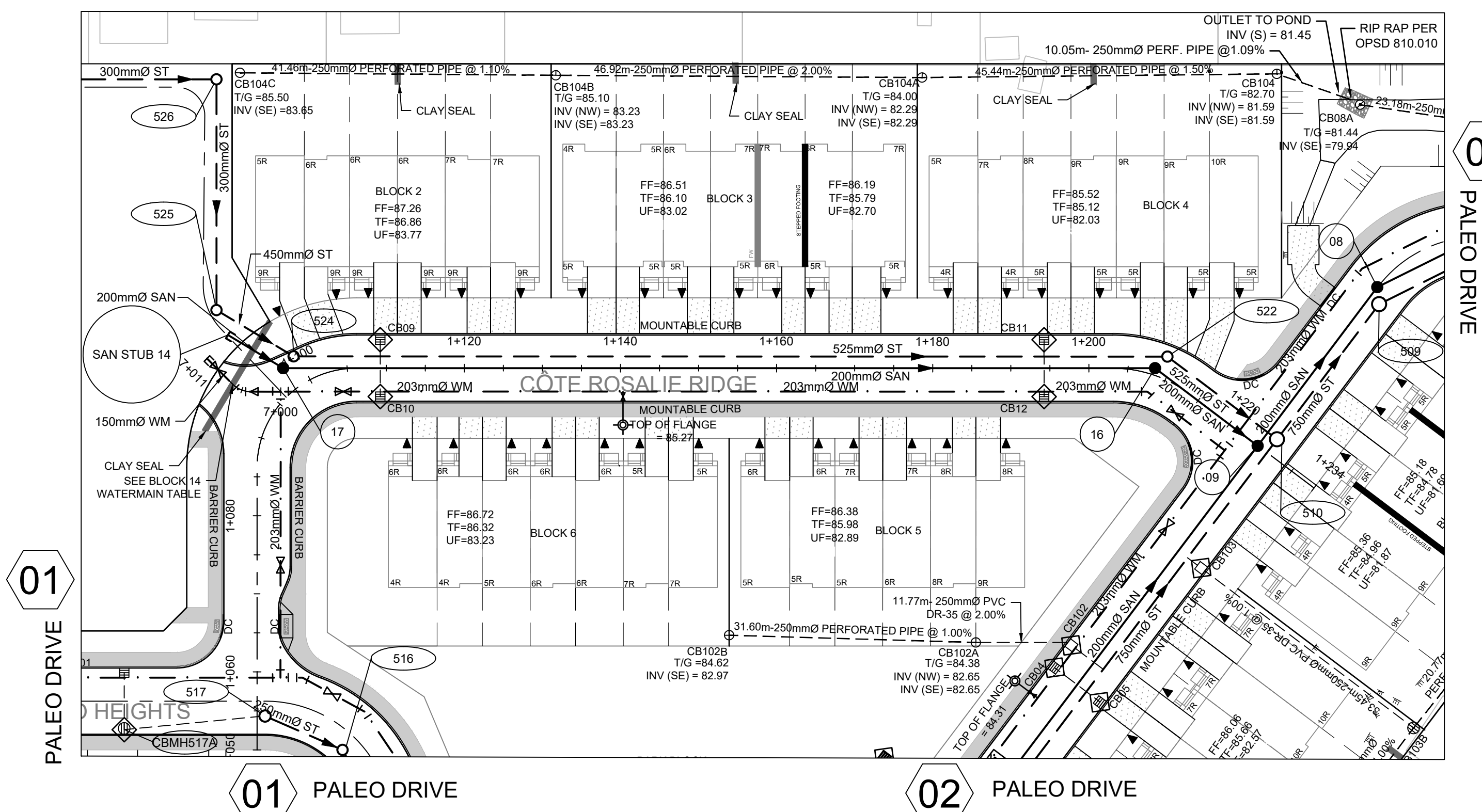
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DRAWN: KT  
CHECKED: KF  
JLR #: 29899-002

DRAWING #: **02**

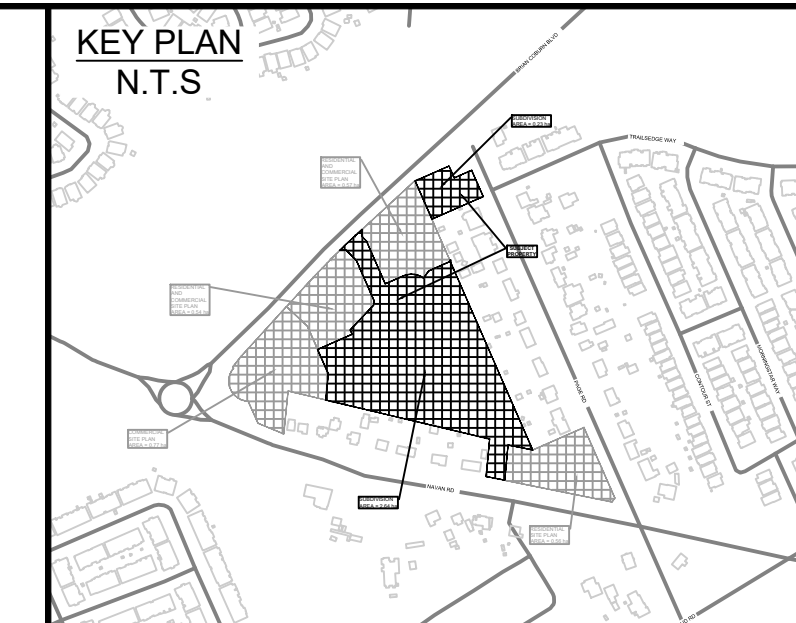


# ROSALIA STREET

WATERMAIN TABLE STA. 7+000 TO 7+009.18 BLOCK 14 PVC DR-18 CL.50				
NO.	DETAIL	STATION	FINISHED GRADE	TOP OF WM
1	200 x 200 TEE	7+000	85.02	82.62
2	REDUCER	7+002.05	84.99	82.59
3	45° HORIZONTAL BEND	7+003.33	85.13	82.73
4	VALVE	7+007.33	85.66	83.26
5	CAP	7+009.32	85.66	83.26



DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
85.246	85.108			1+050.00
85.108	83.267			1+059.27
85.087	83.267			1+060.00
85.477				1+073.68
85.383				1+080.00
85.143				1+098.20
85.087	82.050			1+098.10
85.087	82.534	80.465	82.050	1+098.10
85.024				1+104.24
85.005				1+120.00
85.109				1+140.00
85.110				1+140.32
84.847				1+160.00
84.341				1+180.00
84.011				1+200.00
84.657				1+208.29
84.185				1+208.17
84.085				1+208.17
84.085				1+213.85
84.156				1+221.54
84.156				1+221.54
84.156				1+224.08
84.120				1+233.60



LEGEND	
	PROPOSED WATERMAIN, VALVE & HYDRANT
	EXISTING WATERMAIN, VALVE & HYDRANT
	EXISTING SANITARY SEWER & MANHOLE
	EXISTING STORM SEWER & MANHOLE
	PROPOSED SANITARY SEWER & MANHOLE
	PROPOSED STORM SEWER & MANHOLE
	PROPOSED FORCE MAIN
	HYDRAULIC GRADE LINE (HGL)
	STEPPED FOOTING
	FIREWALL
	PROPOSED CULVERT
	DRAWING NUMBER
	RIP-RAP TO OPSD 810.010 (TYPE B)
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN c/w ICD
	PROPOSED TEE CATCH BASIN
	PROPOSED S-WAY CATCH BASIN
	MANHOLE NUMBER AND SIZE (mm) c/w SAFETY PLATFORM
	PER OPSD 404.000
	MANHOLE NUMBER AND SIZE (mm) c/w EXTENDED BASE
	PER DETAIL D01 ON D1
	3 LATERAL SERVICE CONNECTION (100mm ST, 135 SAN, 19 mm Water)
	TACTILE WALKING INDICATOR STRIP (TWIS)
	ASPHALT
	CONC. SIDEWALK
	INFILTRATION TRENCH

NO.	ISSUE / REVISION	DDMMYY
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01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23

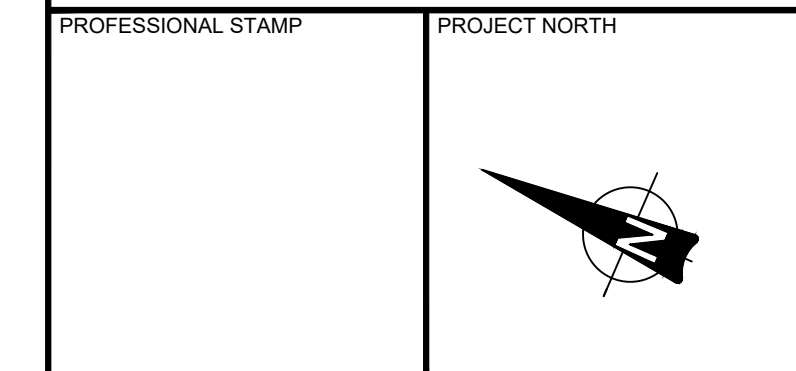
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SCALE: 1:500H, 1:50V



PROFESSIONAL STAMP



PROJECT: EAST RIDGE ORLEANS SUBDIVISION  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

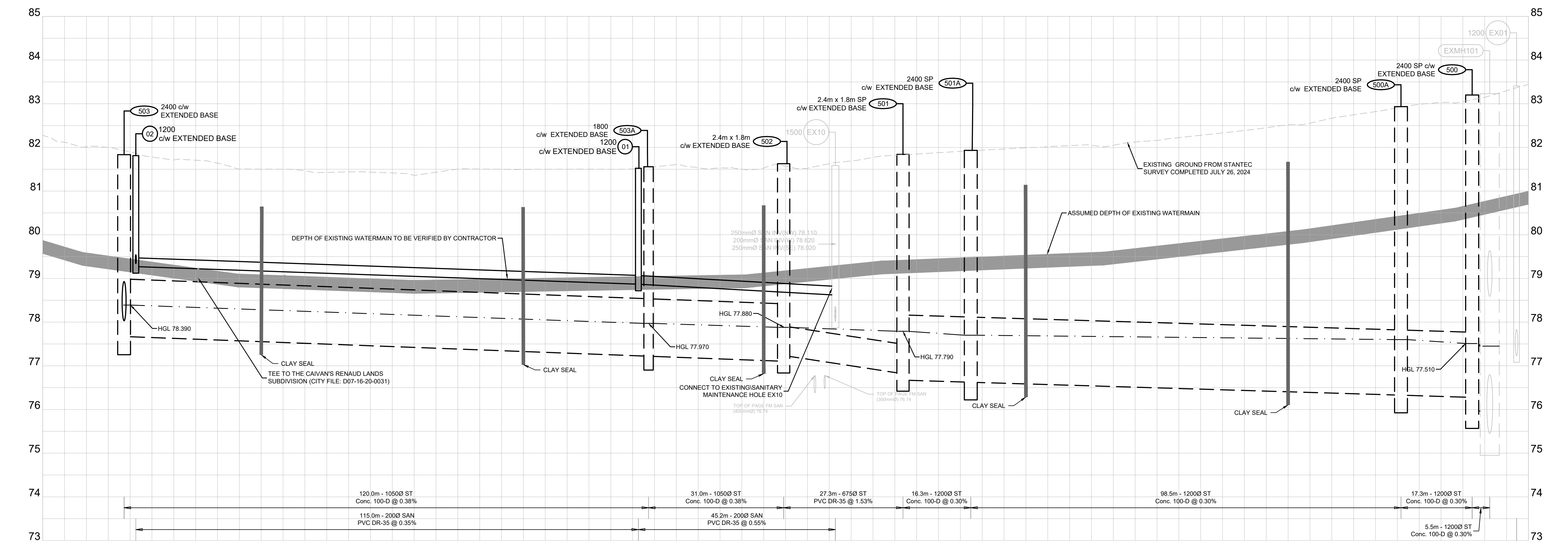
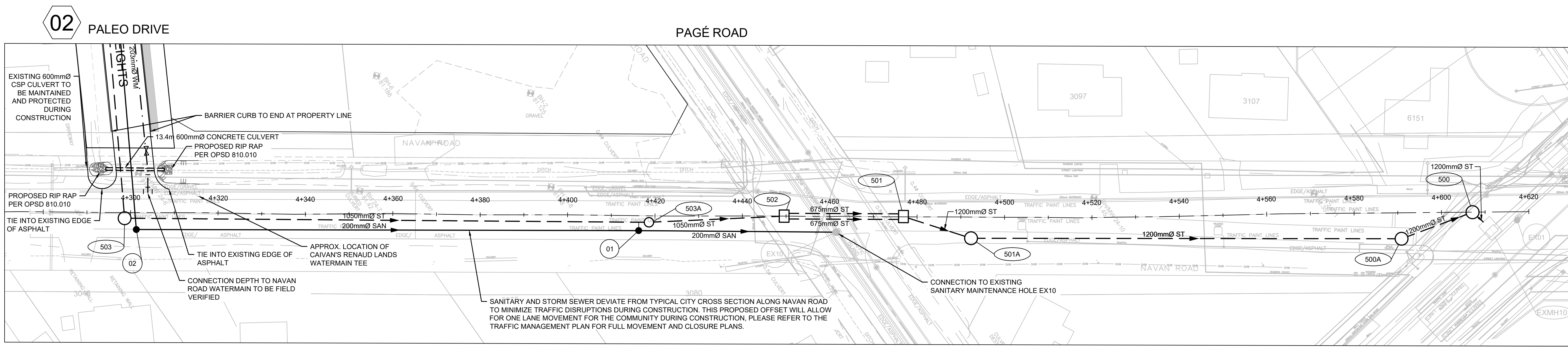
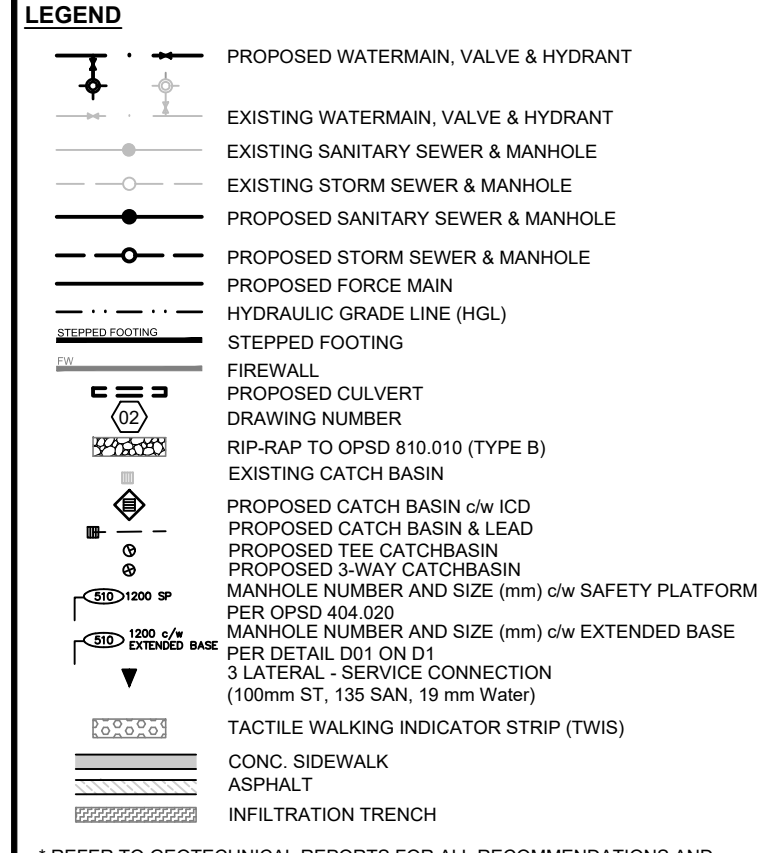
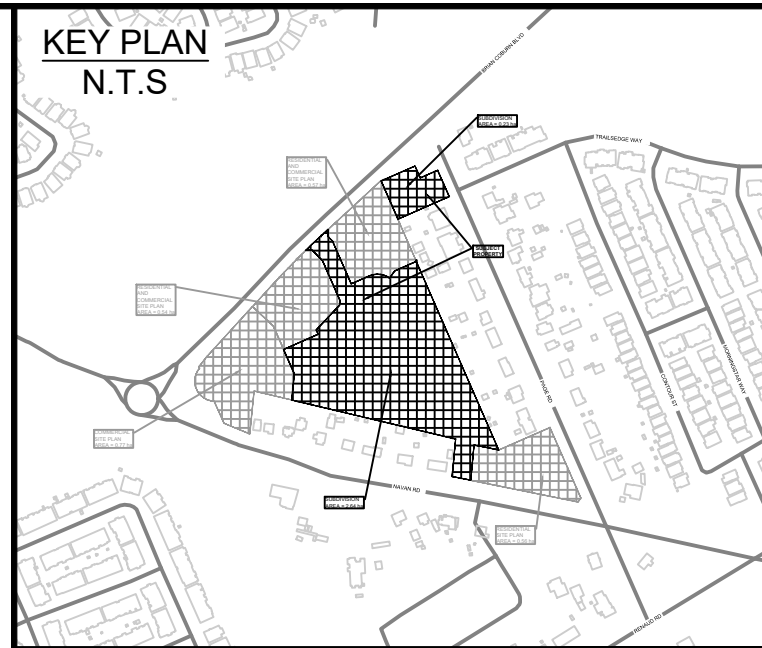
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DESIGN: TR	DRAWING #:
DRAWN: KT	03
CHECKED: KF	
JLR #:	29899-002



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# NAVAN ROAD

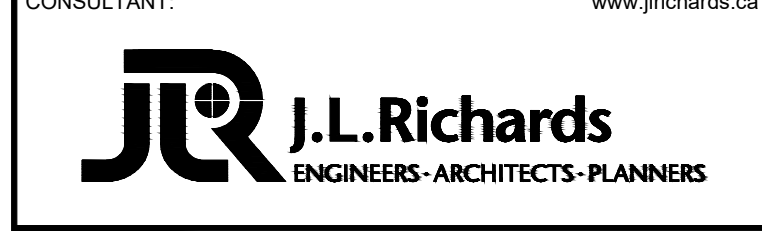


06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
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No.	ISSUE / REVISION	DDMMYY

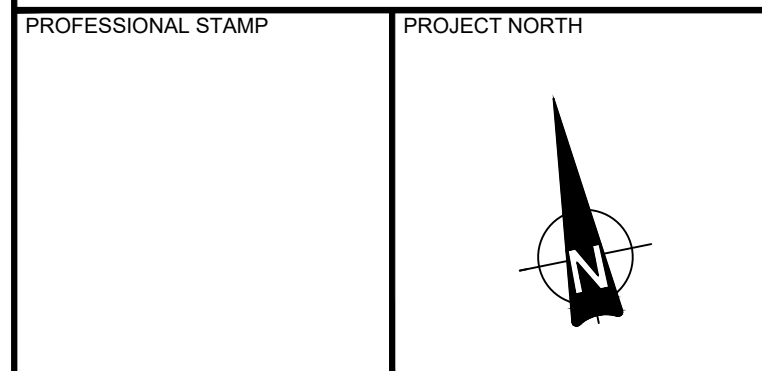
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SCALE: 1:500H, 1:50V



CONSULTANT: J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS



PROJECT: EAST RIDGE ORLEANS SUBDIVISION  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING: PLAN AND PROFILE NAVAN ROAD STA. 4+280 TO 4+620

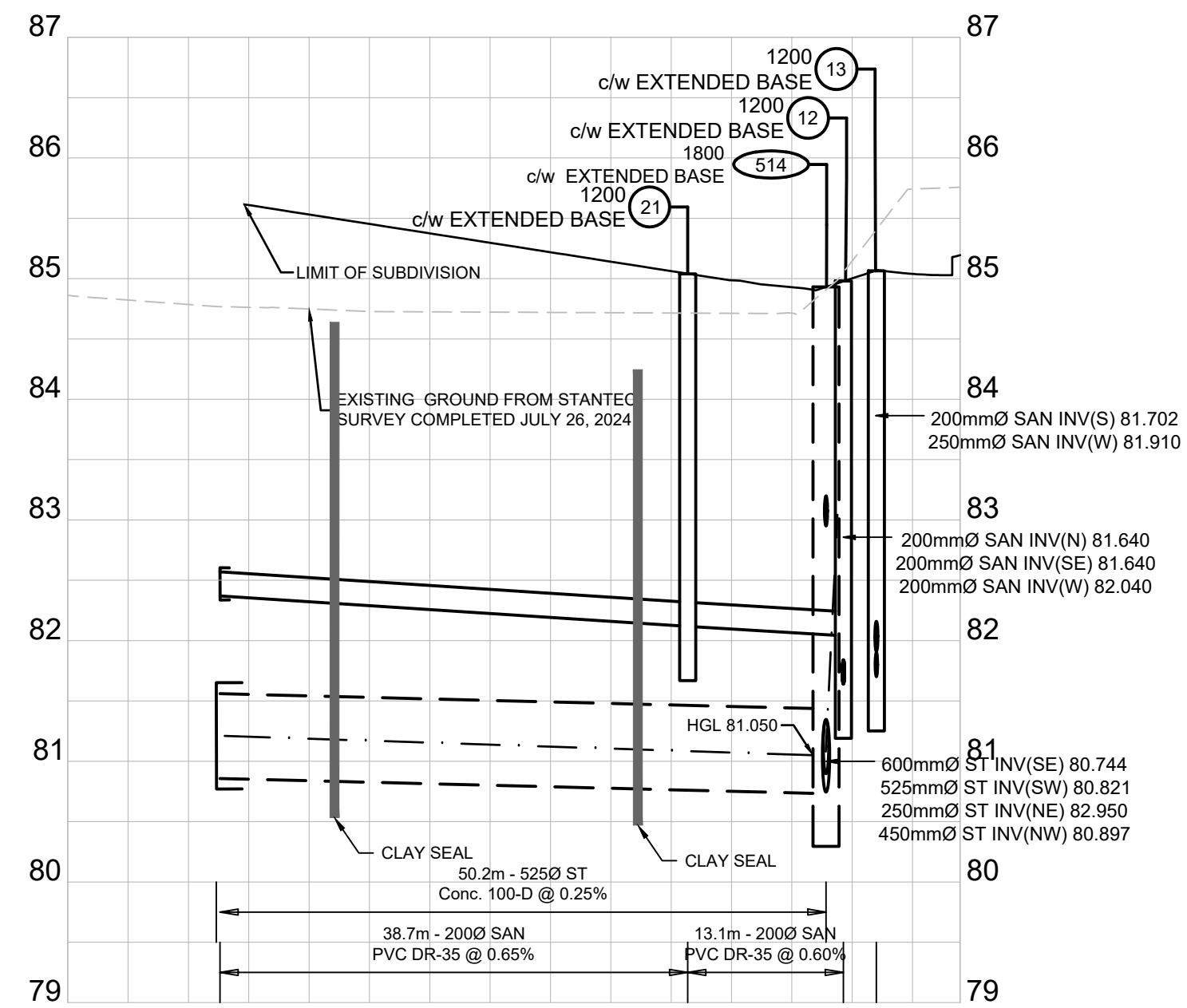
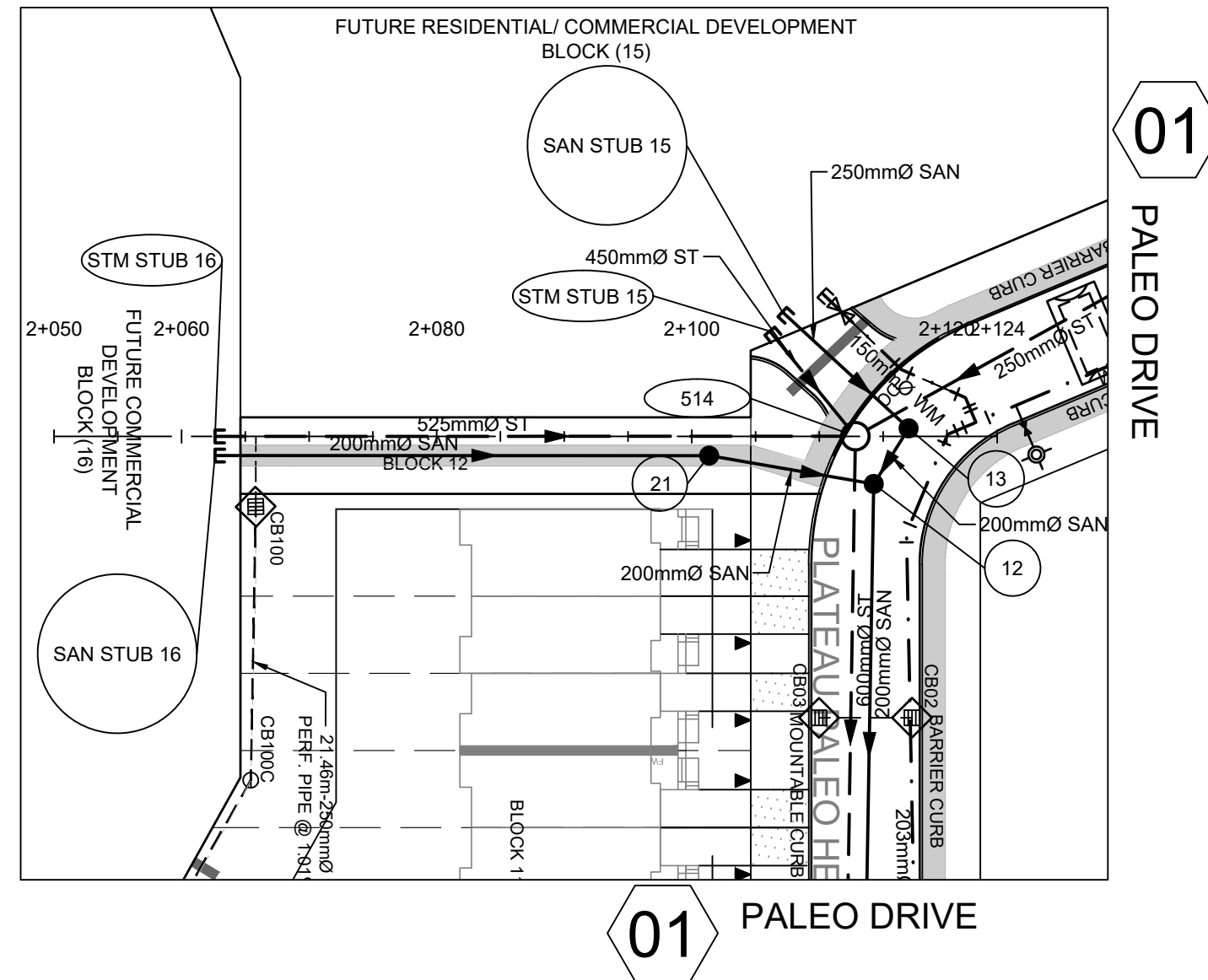
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JLR #: 29899-002  
DRAWING #: 04

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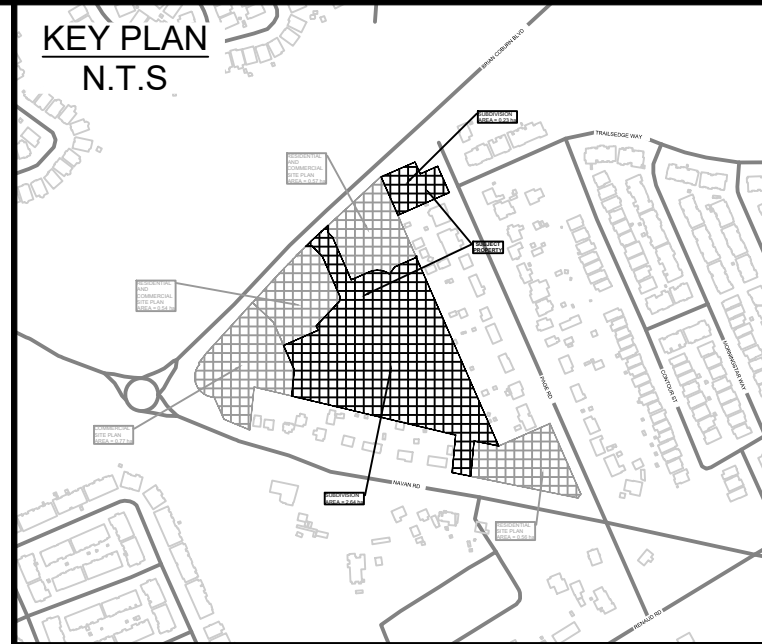
PLOT DATE September 20, 2024 3:45:51 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027



# GAS BAR EASEMENT



DESIGN PROFILE ELEVATIONS				
		85.375	85.083	85.039
W.M. TOP ELEVATIONS		85.375	85.083	85.039
STORM SEWER INV. ELEVATION	80.345			80.871
SANITARY SEWER INV. ELEVATION	82.370	82.118	82.040	
CL. ROADWAY STATION	2+050.00	2+060.00	2+100.00	2+123.95

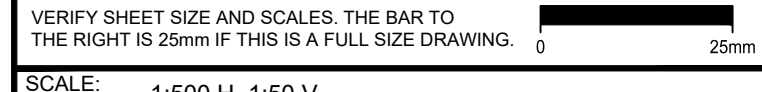


- LEGEND**
- PROPOSED WATERMAIN, VALVE & HYDRANT
  - EXISTING WATERMAIN, VALVE & HYDRANT
  - EXISTING SANITARY SEWER & MANHOLE
  - EXISTING STORM SEWER & MANHOLE
  - PROPOSED SANITARY SEWER & MANHOLE
  - PROPOSED STORM SEWER & MANHOLE
  - PROPOSED FORCE MAIN
  - HYDRAULIC GRADE LINE (HGL)
  - STEPPED FOOTING
  - FIRE WALL
  - PROPOSED CULVERT
  - RIP-RAP TO OPSD 810.010 (TYPE B)
  - EXISTING CATCH BASIN
  - PROPOSED CATCH BASIN c/w ICD
  - PROPOSED TEE CATCH BASIN
  - PROPOSED S-WAY CATCH BASIN
  - MANHOLE NUMBER AND SIZE (mm) c/w SAFETY PLATFORM PER OPSD 404.000
  - MANHOLE NUMBER AND SIZE (mm) c/w EXTENDED BASE PER DETAIL D01 ON D'3 LATERAL SERVICE CONNECTION (100mm ST, 135 SAN, 19 mm Water)
  - TACTILE WALKING INDICATOR STRIP (TWIS)
  - CONC. SIDEWALK
  - ASPHALT
  - INFILTRATION TRENCH

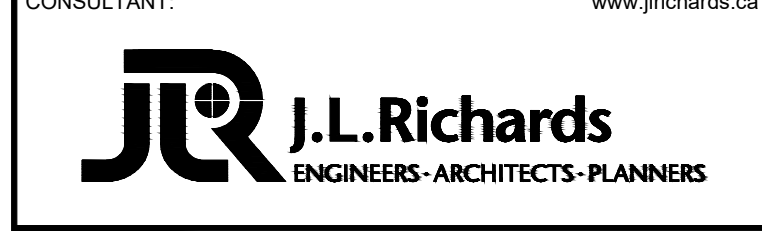
\* REFER TO GEOTECHNICAL REPORTS FOR ALL RECOMMENDATIONS AND COMPLETE GROUNDWATER INFORMATION.

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

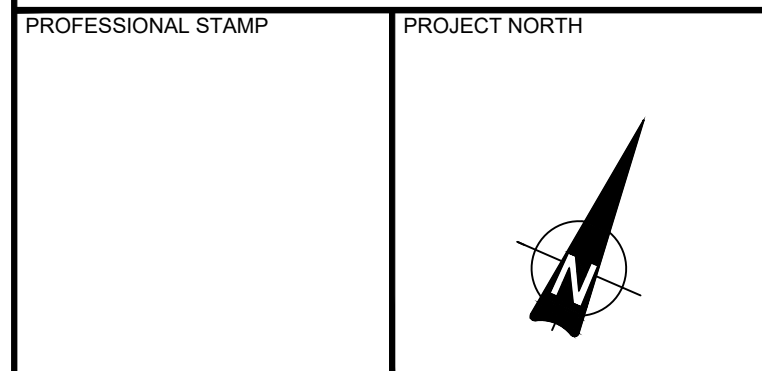
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SCALE: 1:500 H, 1:50 V



CONSULTANT:



PROJECT:  
**EAST RIDGE ORLEANS SUBDIVISION**  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

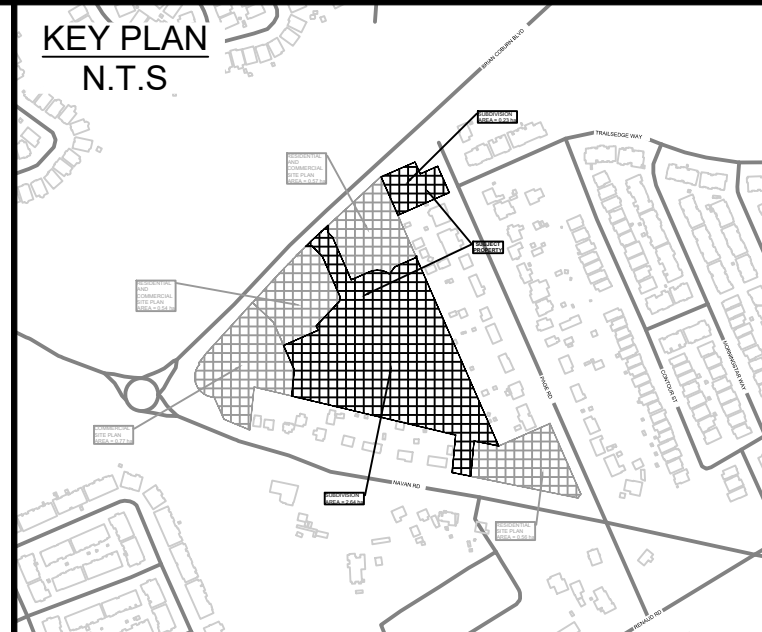
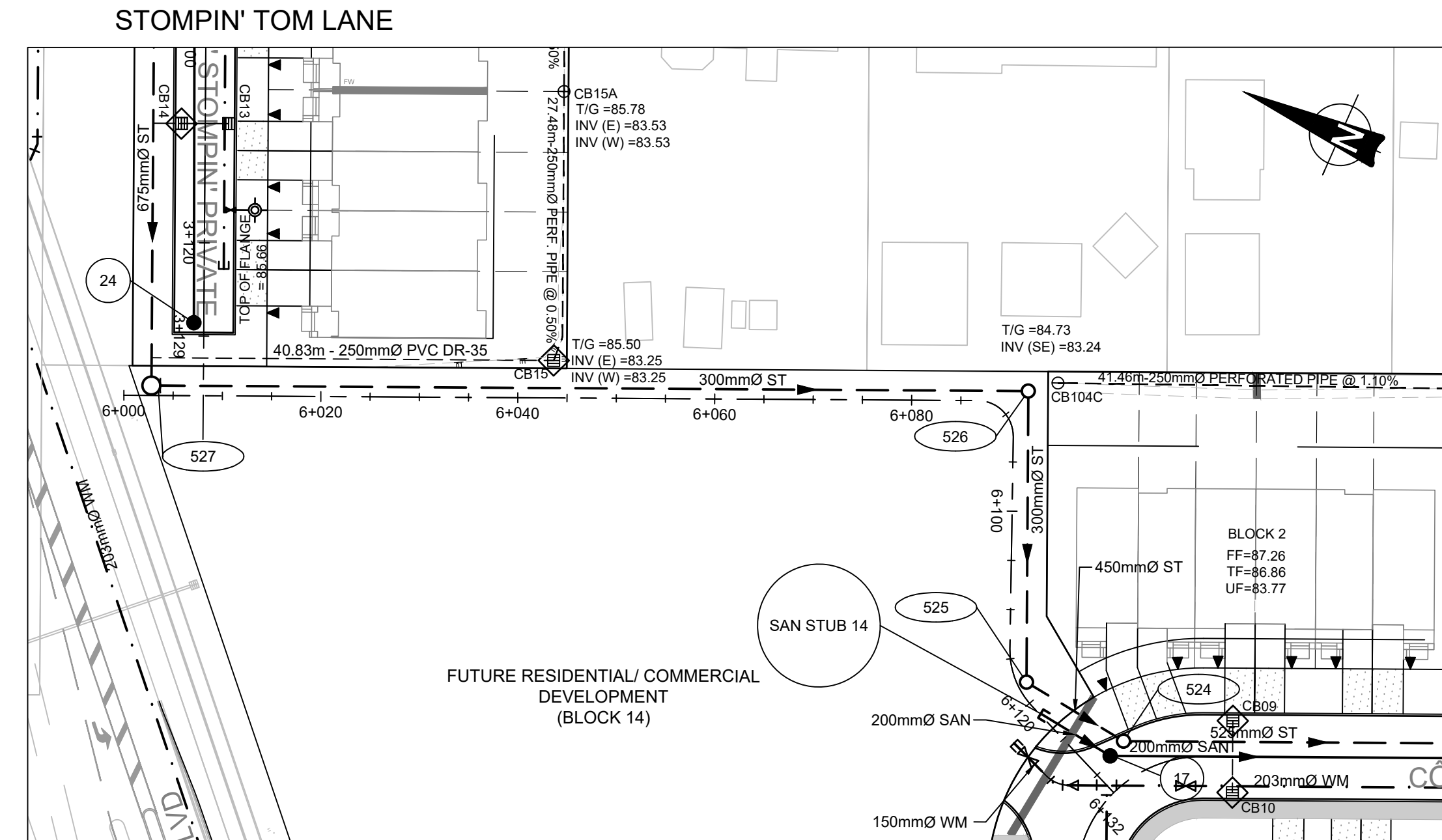
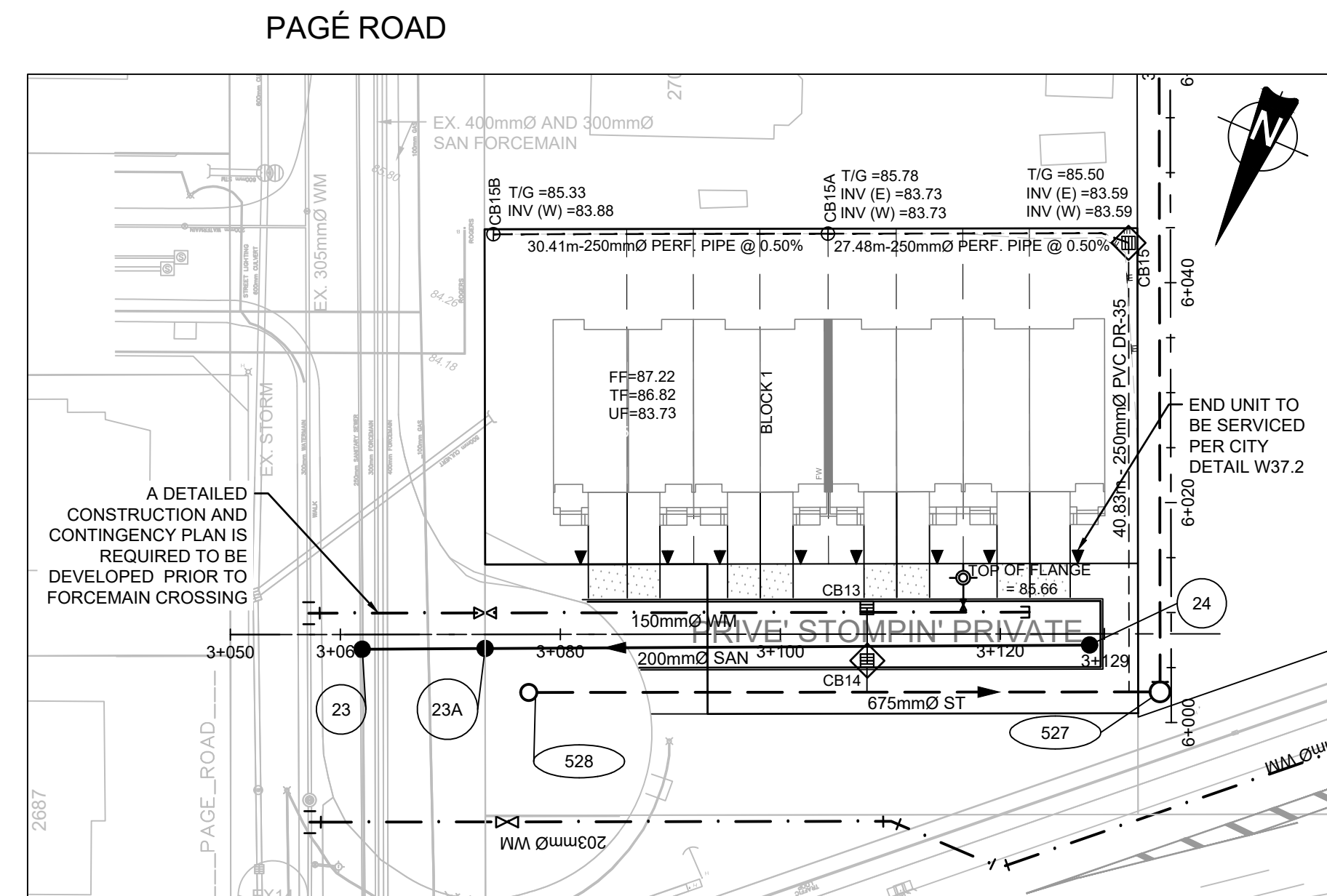
DRAWING:  
**PLAN AND PROFILE GAS BAR EASEMENT STA. 2+050 TO 2+123.95**

DESIGN: TR	DRAWING #: <b>05</b>
DRAWN: KT	
CHECKED: KF	
JLR #: 29899-002	



# STOMPIN' TOM LANE

# BLOCK 14 EASEMENT



**LEGEND**

- PROPOSED WATERMAIN, VALVE & HYDRANT
- EXISTING WATERMAIN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORM SEWER & MANHOLE
- PROPOSED FORCE MAIN
- HYDRAULIC GRADE LINE (HGL)
- STEPPED FOOTING
- FIREWALL
- PROPOSED CULVERT
- DRAWING NUMBER
- RIP-RAP TO OPSD 810.010 (TYPE B)
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN c/w ICD
- PROPOSED CATCH BASIN & LEAD
- PROPOSED TEE CATCH BASIN
- PROPOSED 3-WAY CATCH BASIN
- MANHOLE NUMBER AND SIZE (mm) c/w SAFETY PLATFORM
- PER OPSD 404.000
- MANHOLE NUMBER AND SIZE (mm) c/w EXTENDED BASE
- PER DETAIL D01 ON D' 3 LATERAL SERVICE CONNECTION (100mm ST, 135 SAN, 19 mm Water)
- TACTILE WALKING INDICATOR STRIP (TWS)
- CONC. SIDEWALK
- INFILTRATION TRENCH

\* REFER TO GEOTECHNICAL REPORTS FOR ALL RECOMMENDATIONS AND COMPLETE GROUNDWATER INFORMATION.

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500 H, 1:50 V

CLIENT:

CONSULTANT:

ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

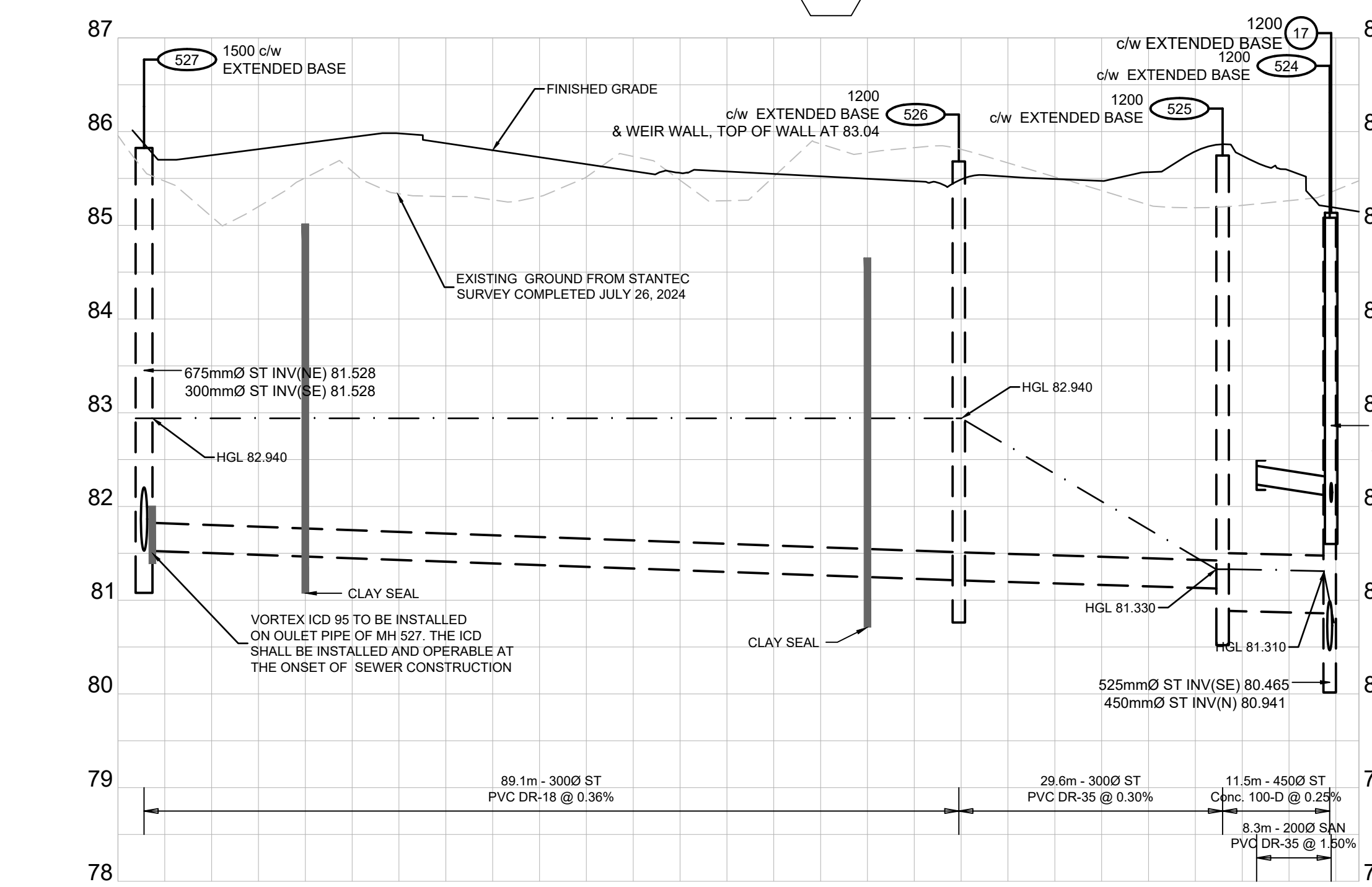
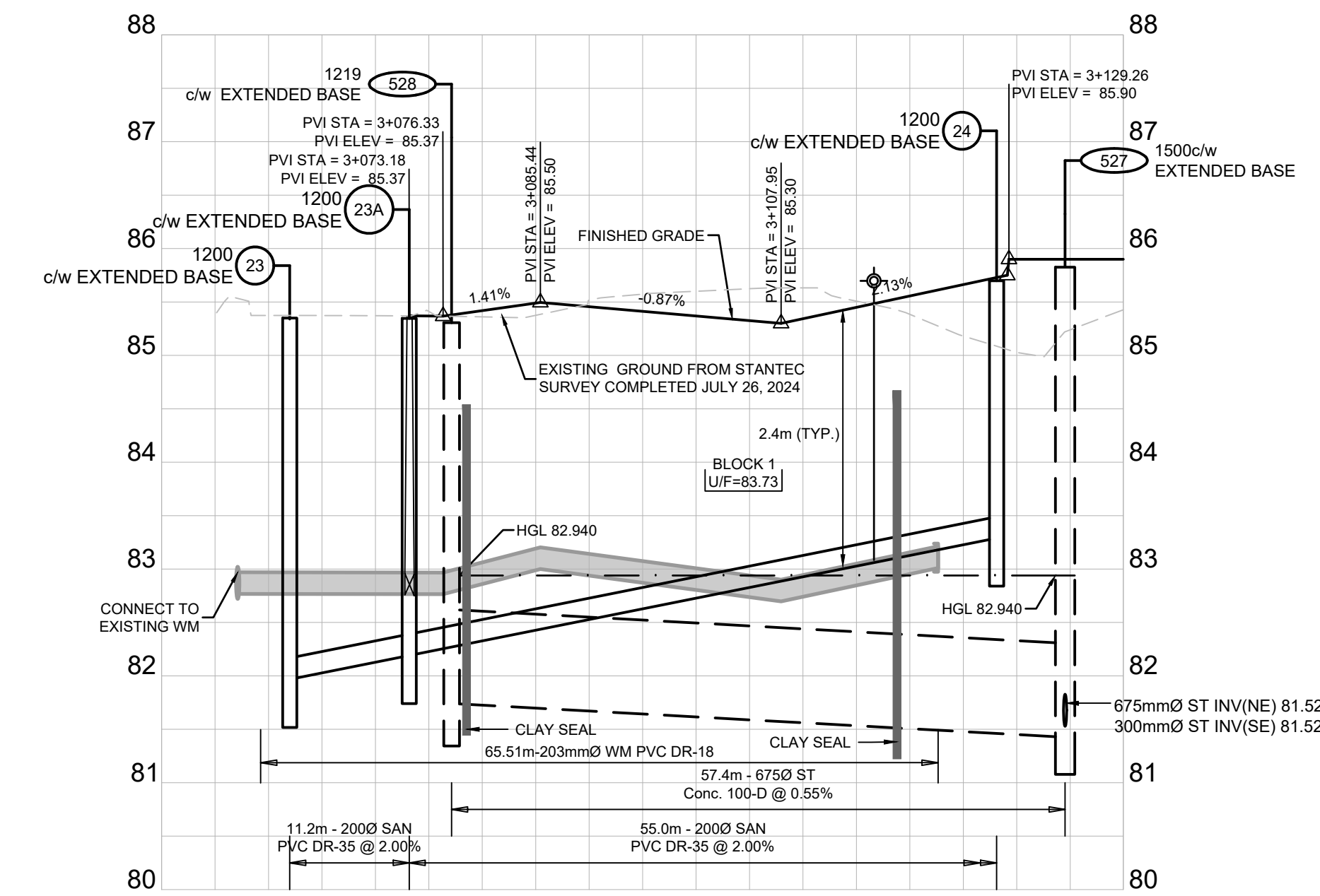
**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING:

**PLAN AND PROFILE STOMPIN' TOM LANE & EASEMET 3+050 TO 3+139.97 & 6+000 TO 6+132.47**

DESIGN:	TR	DRAWING #:	<b>06</b>
DRAWN:	KT		
CHECKED:	KF		
JLR #:	29899-002		



DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
85.533	80.970			3+050.00
85.520	82.970			3+067.13
85.370	82.988			3+080.00
85.419	82.988			3+081.69
85.419	82.988			3+073.20
85.419	82.988			3+073.17
85.419	82.988			3+071.13
85.419	82.988			3+060.00
85.370	82.988			3+100.00
85.369	82.988			3+116.64
85.485	83.085			3+120.00
85.556	83.195			3+122.84
85.612	83.059			3+128.11
85.900	83.290			3+134.52
85.900	83.290			3+139.97

DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
85.958	81.528			6+000.00
85.507	81.528			6+002.79
85.517	81.528			6+020.00
85.272	81.528			6+040.00
85.482	81.528			6+060.00
85.776	81.528			6+080.00
85.517	81.528			6+080.75
85.517	81.528			6+100.00
85.213	81.528			6+117.91
85.213	81.528			6+120.00
85.475	81.528			6+128.34
85.475	81.528			6+132.47

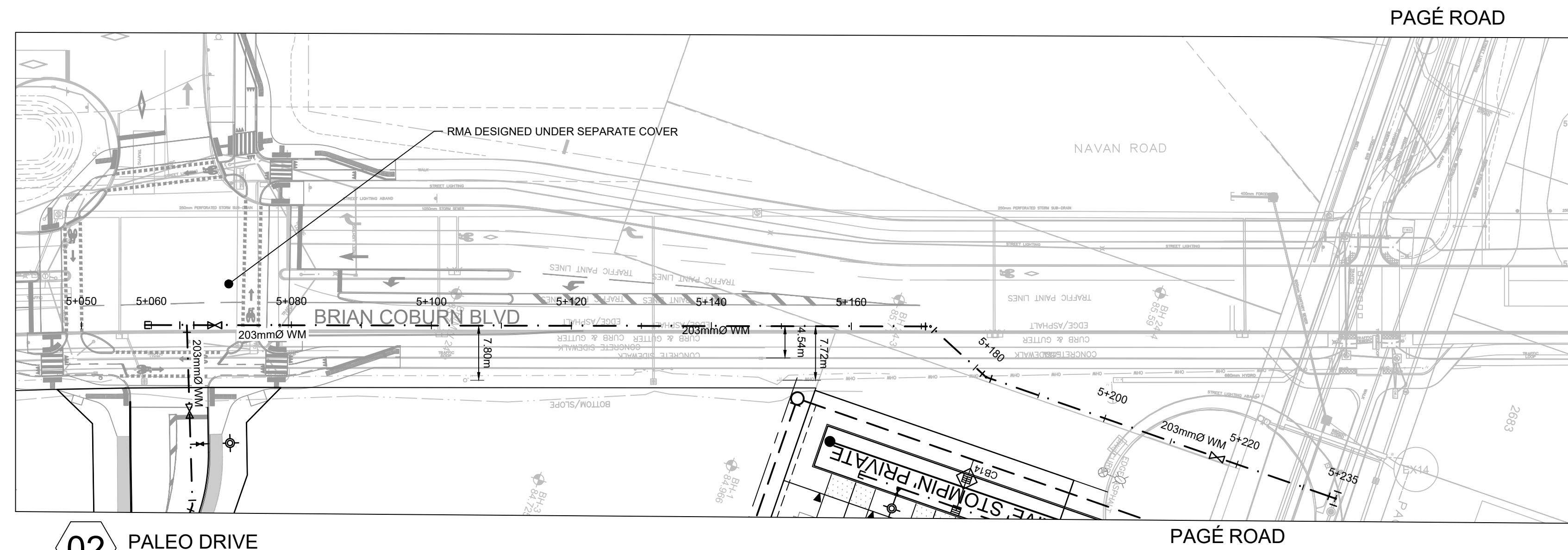
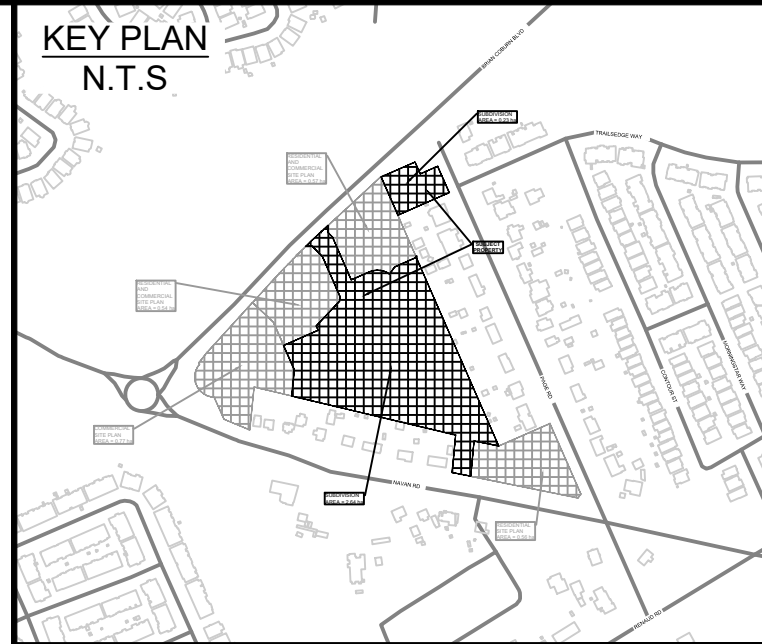
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PLOT DATE: September 20, 2024 3:47:27 PM CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027

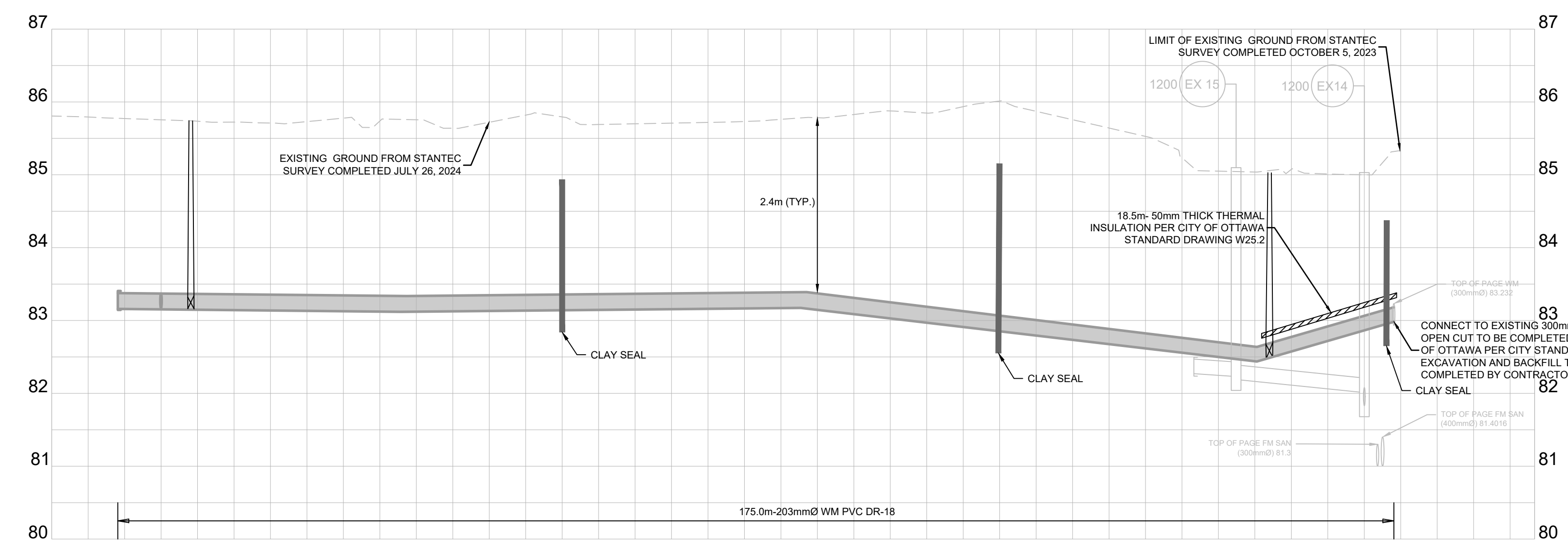


# BRIAN COBURN BOULEVARD

EXISTING UNDERGROUND INFORMATION SHOWN HAS BEEN TAKEN FROM CITY OF OTTAWA UCC DRAWINGS PROVIDED BY OTTAWA INFORMATION CENTRE- MAY 2024. ALL INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR



02 PALEO DRIVE



DESIGN PROFILE ELEVATIONS	85.775	83.375	83.375	83.370	85.754	85.741	83.365	83.355	83.337	83.337	83.357	83.376	83.311	85.855	83.042	85.838	82.824	82.824	85.057	82.775	83.182	83.337	82.775	
W.M. TOP ELEVATIONS	83.376	CAP	83.375	203x203 TEE	85.741	VALVE & VALVE BOX	83.355	83.355	83.337	83.337	83.357	83.376	83.311	83.173	45° HORIZ. BEND	83.042	22.5° HORIZ. BEND	82.824	82.824	VALVE & VALVE BOX	82.775	83.182	300x203 TEE	82.775
STORM SEWER INV. ELEVATION																								
SANITARY SEWER INV. ELEVATION																								
C.L. ROADWAY STATION	5+050.00	5+059.06	5+060.00	5+065.06	5+069.07		5+080.00		5+100.00		5+120.00	5+140.00	5+160.00	5+171.32	5+180.00	5+182.06	5+200.00	5+216.97	5+220.00		5+234.06	5+240.00		5+253.36

**LEGEND**

- PROPOSED WATERMAIN, VALVE & HYDRANT
- EXISTING WATERMAIN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORM SEWER & MANHOLE
- PROPOSED FORCE MAIN
- HYDRAULIC GRADE LINE (HGL)
- STEPPED FOOTING
- FIREWALL
- PROPOSED CULVERT
- DRAWING NUMBER
- RIP-RAP TO OPSD 810.010 (TYPE B)
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN c/w ICD
- PROPOSED CATCH BASIN & LEAD
- PROPOSED TEE CATCH BASIN
- PROPOSED S-WAY CATCH BASIN
- MANHOLE NUMBER AND SIZE (mm) c/w SAFETY PLATFORM PER OPSD 404.000
- MANHOLE NUMBER AND SIZE (mm) c/w EXTENDED BASE PER DETAIL D01 ON D1
- 3 LATERAL SERVICE CONNECTION (100mm ST, 135 SAN, 19 mm Water)
- TACTILE WALKING INDICATOR STRIP (TWS)
- CONC. SIDEWALK
- ASPHALT
- INFILTRATION TRENCH

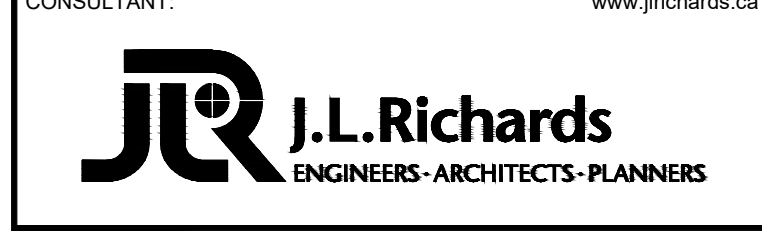
\* REFER TO GEOTECHNICAL REPORTS FOR ALL RECOMMENDATIONS AND COMPLETE GROUNDWATER INFORMATION.

No.	ISSUE / REVISION	DDMMYY
06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23

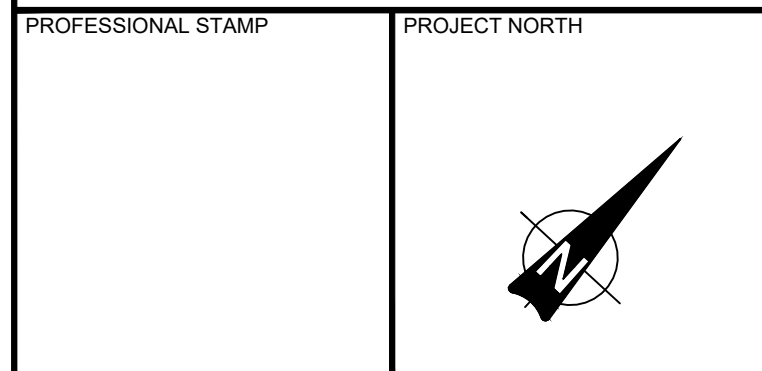
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SCALE: 1:500H, 1:50V



CONSULTANT: www.jrichards.ca

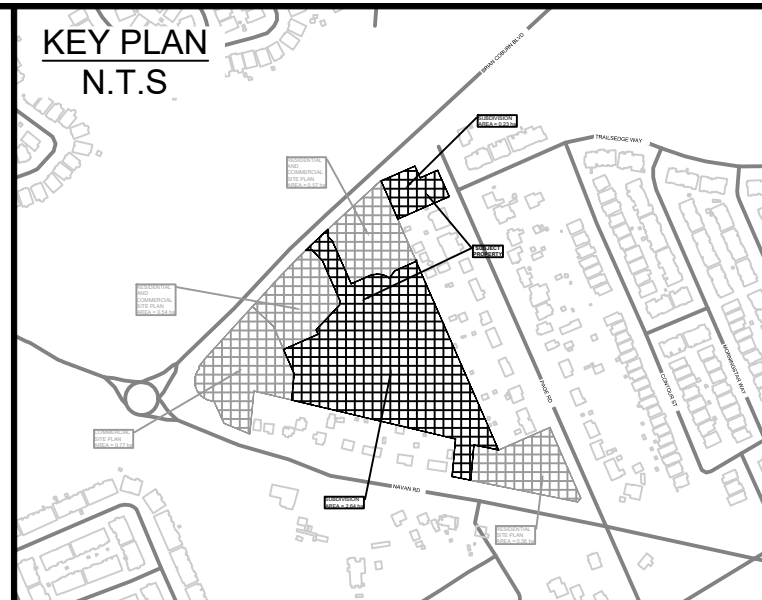
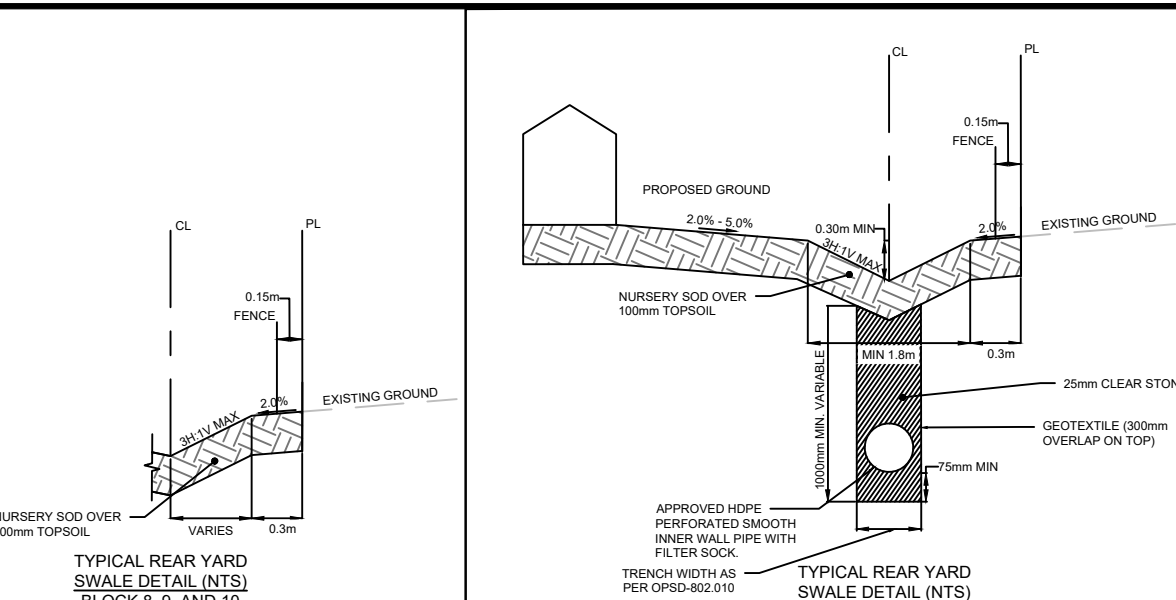
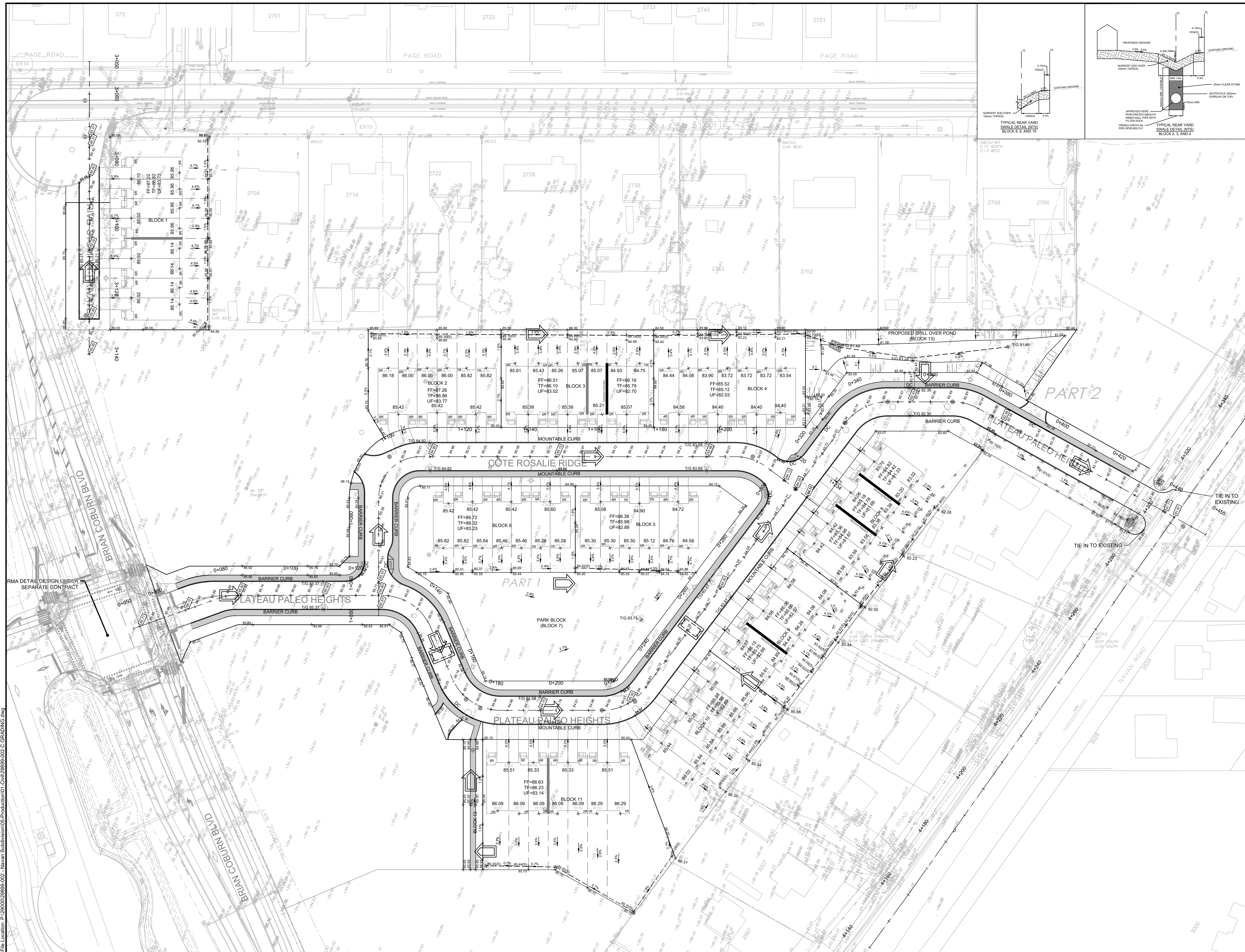


PROJECT: EAST RIDGE ORLEANS SUBDIVISION  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING: PLAN AND PROFILE BRIAN COBURN BOULEVARD STA. 5+050 TO 5+253.36

DESIGN: TR	DRAWING #:
DRAWN: KT	07
CHECKED: KF	
JLR #: 29899-002	





**LEGEND**

- 96.00 PROPOSED ELEVATION
- EXISTING GROUND (STANTEC SURVEY RECEIVED JULY 26, 2024)
- PROPOSED CIL ROAD POINT OF VERTICAL INTERSECTION
- PROPOSED TERRACING (MAX 3:1)
- SURFACE SLOPE
- FLOW DIRECTION
- MAJOR OVERLAND FLOW DIRECTION
- FINISHED FLOOR ELEVATION
- TOP OF FOUNDATION ELEVATION
- UNDERSIDE OF FOUNDATION ELEVATION
- ASPHALT WALKWAY
- CONCRETE SURFACE (EXISTING)
- CURB AND DEPRESSED CURB
- BOREHOLE NUMBER
- TEST PIT
- FIRE WALL
- STEPPED FOOTING
- REAR YARD SWALE

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
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01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: 1:500

CLIENT:

CONSULTANT:

www.jrichards.ca

CONSULTANT:

J.L. Richards  
ENGINEERS - ARCHITECTS - PLANNERS

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

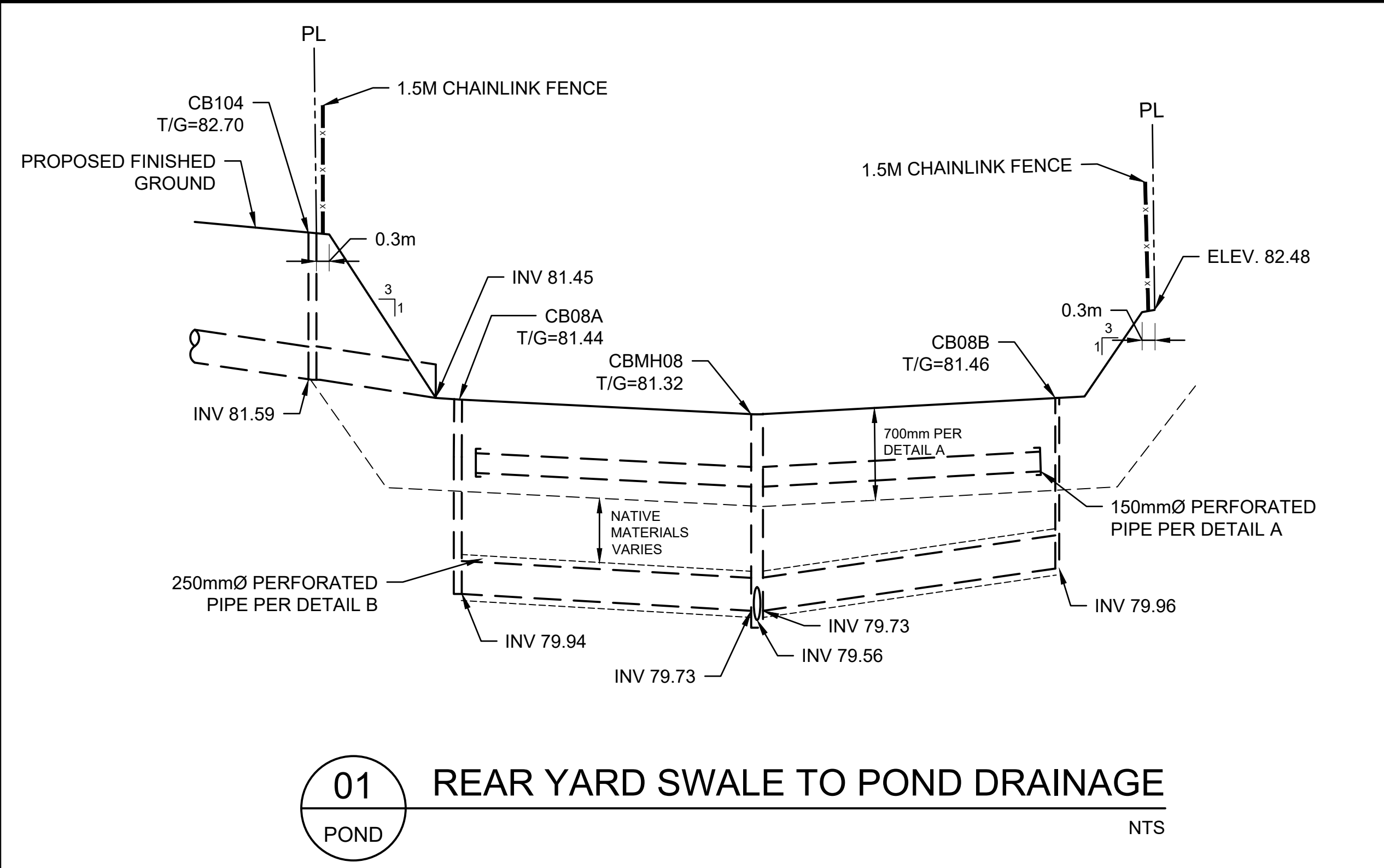
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

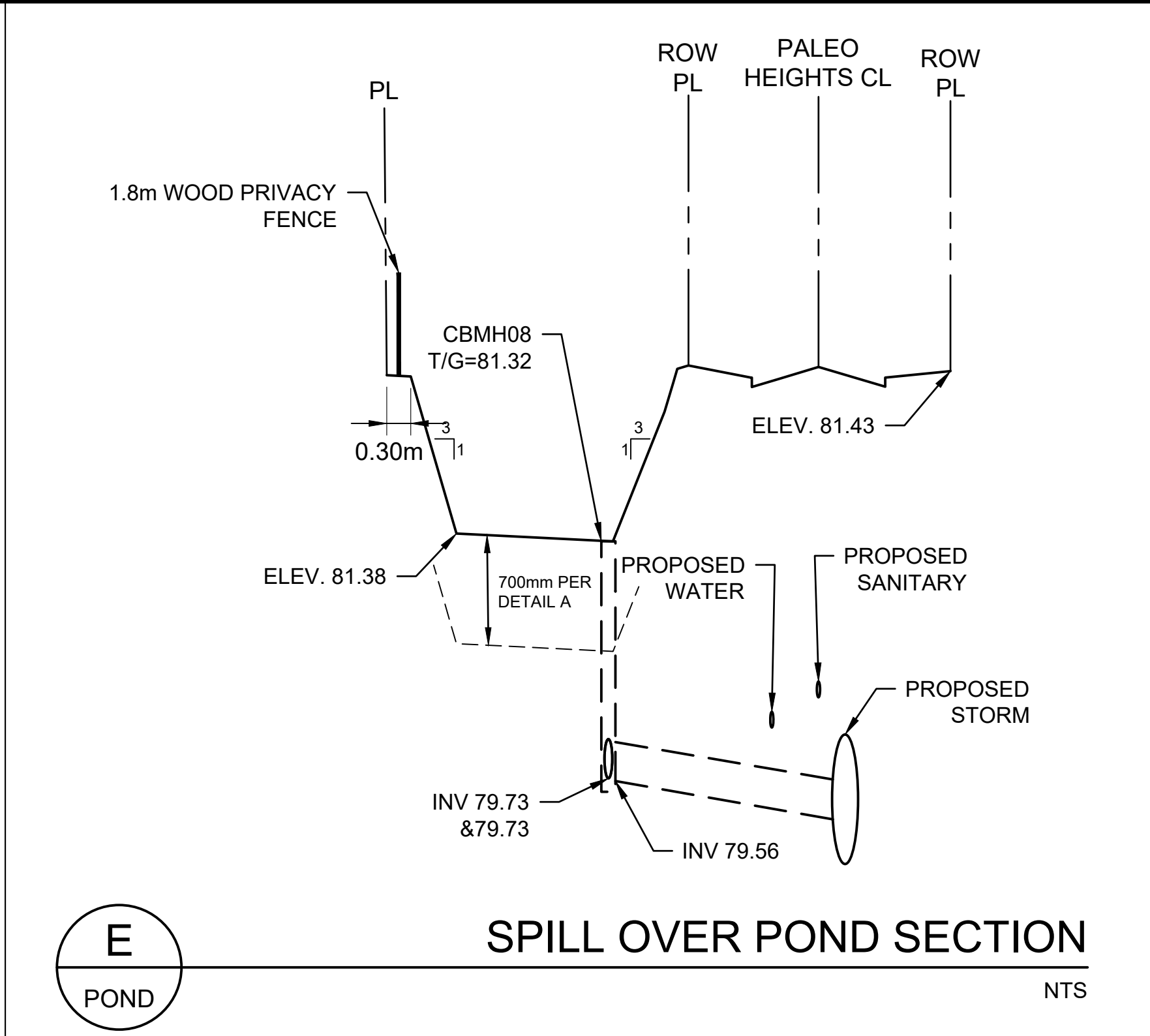
**GRADING PLAN**

DESIGN:	TR	DRAWING #:	<b>G1</b>
DRAWN:	KT		
CHECKED:	KF		
JLR #:	29899-002		

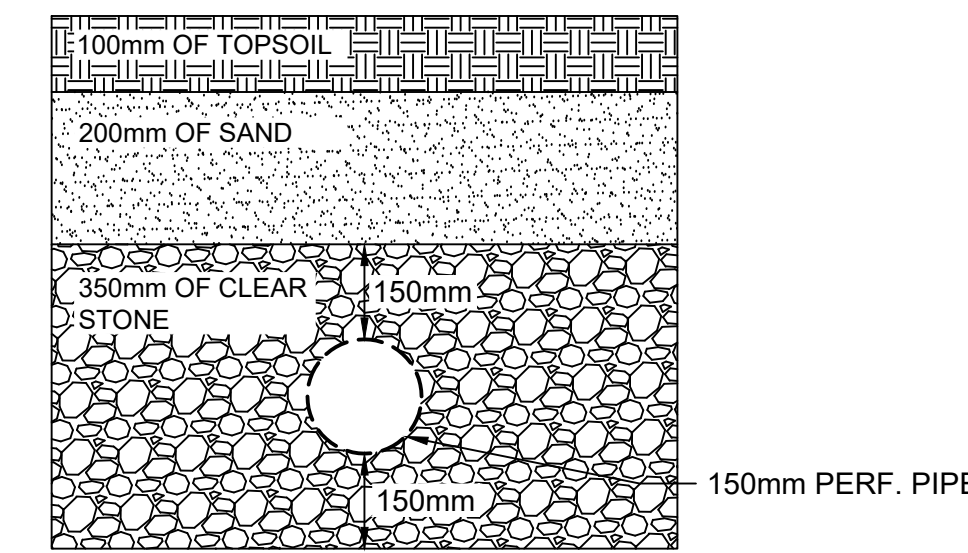




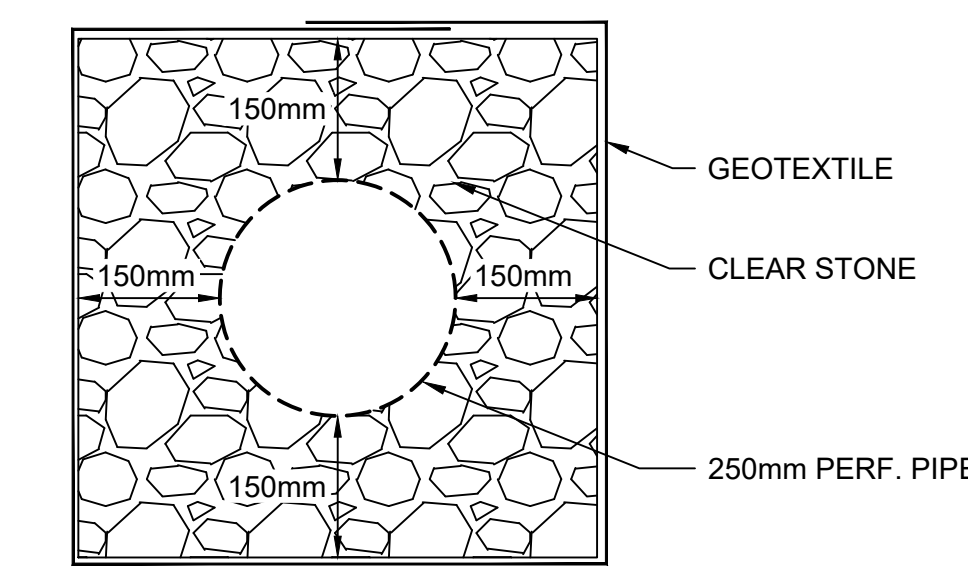
**01 REAR YARD SWALE TO POND DRAINAGE**  
POND NTS



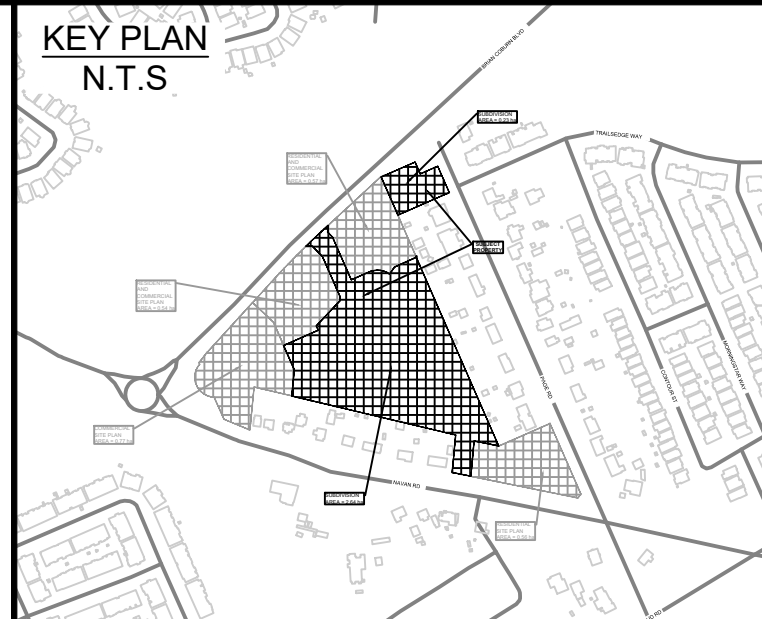
**E SPILL OVER POND SECTION**  
POND NTS



**DETAIL A- POND MAKE UP**  
NTS



**DETAIL B- TYPICAL PERFERATED PIPE**  
NTS



**LEGEND**

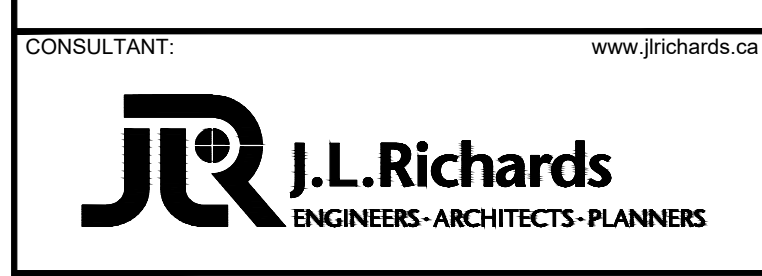
- 96.00 PROPOSED ELEVATION
- EXISTING GROUND (STANTEC SURVEY RECEIVED JULY 26, 2024)
- PROPOSED C.I. ROAD POINT OF VERTICAL INTERSECTION
- PROPOSED TERRACING (MAX 3:1)
- SURFACE SLOPE
- FLOW DIRECTION
- MAJOR OVERLAND FLOW DIRECTION
- FF = 97.64 FINISHED FLOOR ELEVATION
- TF = 94.24 TOP OF FOUNDATION ELEVATION
- UF = 91.09 UNDERSIDE OF FOUNDATION ELEVATION
- ASPHALT WALKWAY
- CONCRETE SURFACE (EXISTING)
- CURB AND DEPRESSED CURB
- DC
- BOREHOLE NUMBER
- TEST PIT
- TP#-#
- FW FIRE WALL
- STEPPED FOOTING
- REAR YARD SWALE

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
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02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

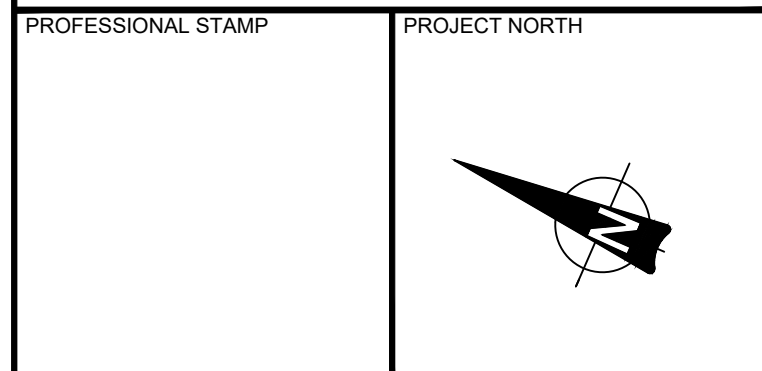
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:150



CONSULTANT:

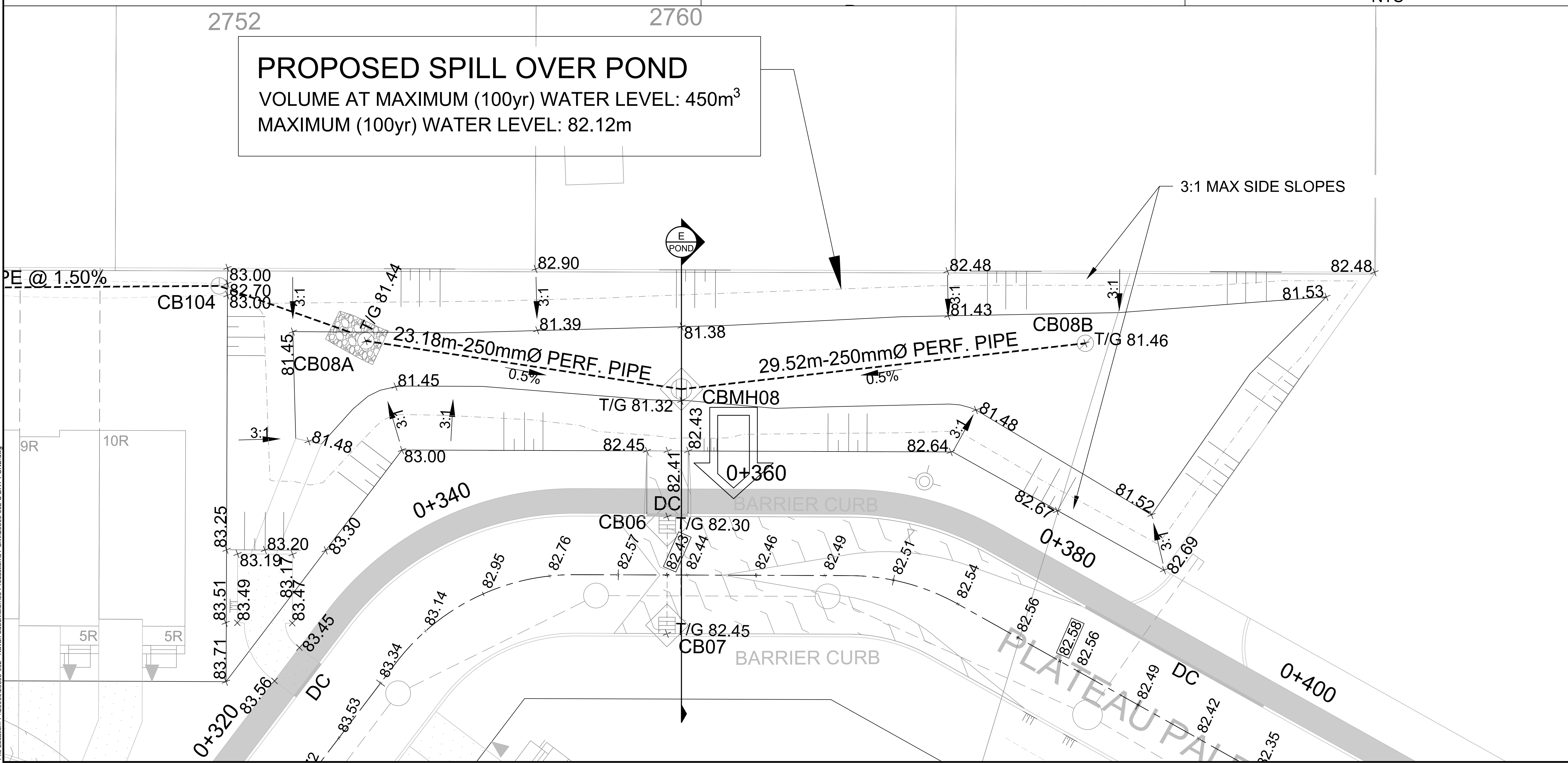


PROJECT:  
**EAST RIDGE ORLEANS SUBDIVISION**  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING: **SPILL OVER POND**

DESIGN: TR	DRAWING #:
DRAWN: KT	<b>POND</b>
CHECKED: KF	
JLR #: 29899-002	

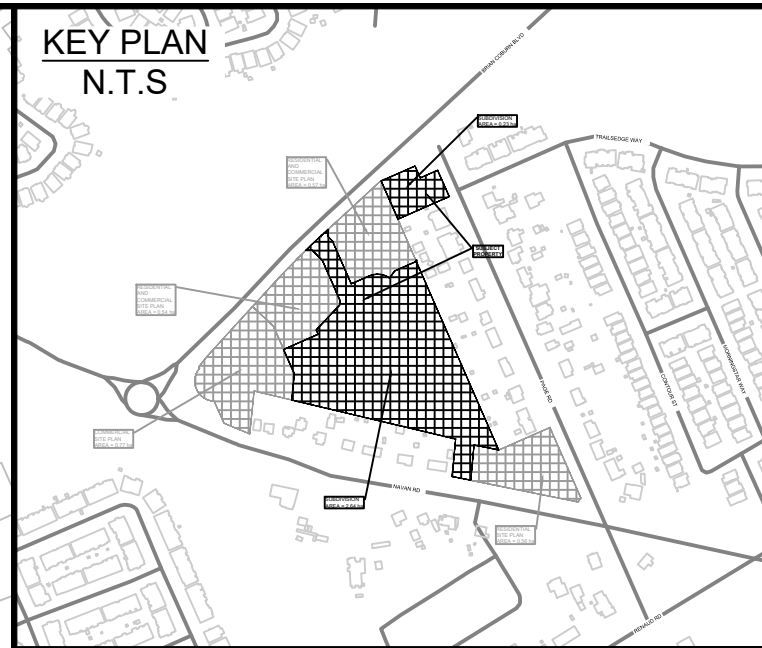
**PROPOSED SPILL OVER POND**  
VOLUME AT MAXIMUM (100yr) WATER LEVEL: 450m<sup>3</sup>  
MAXIMUM (100yr) WATER LEVEL: 82.12m



File Location: P:\2020\029899-002 - Navan\_Subdivision\05-Production\01-Civil\29899-002-C.DRY\_POND.dwg

PLOT DATE September 20, 2024 3:50:42 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027





**LEGEND:**

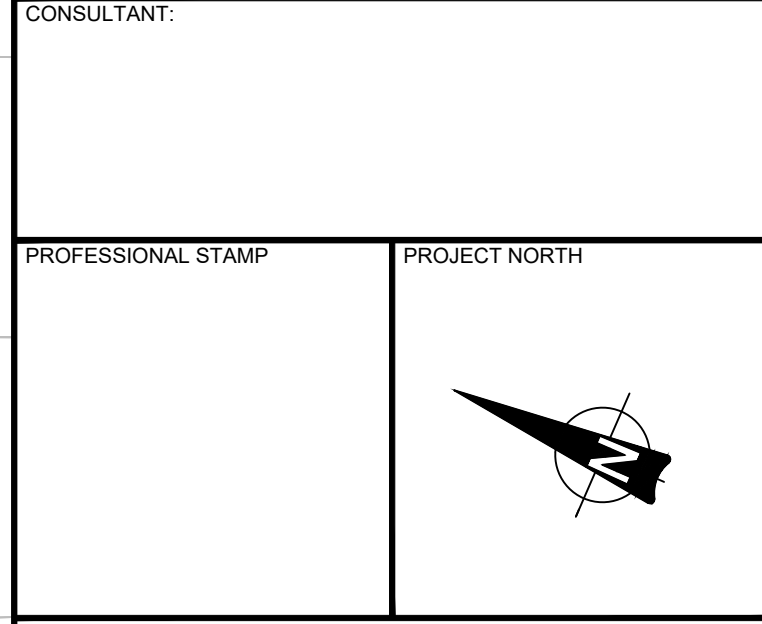
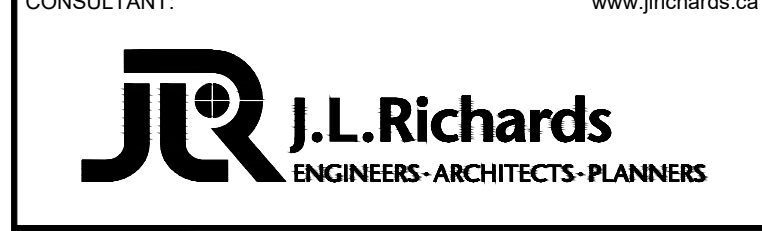
- STM DA BOUNDARY
- - - - - PROPOSED STORM SEWER & MANHOLE
- AREA IN HECTARES
- RUNOFF COEFFICIENT
- PIPE REACH UPSTREAM MAINTENANCE HOLE TO DOWNSTREAM MAINTENANCE HOLE

No.	ISSUE / REVISION	DDMMYY
06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:1000



PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

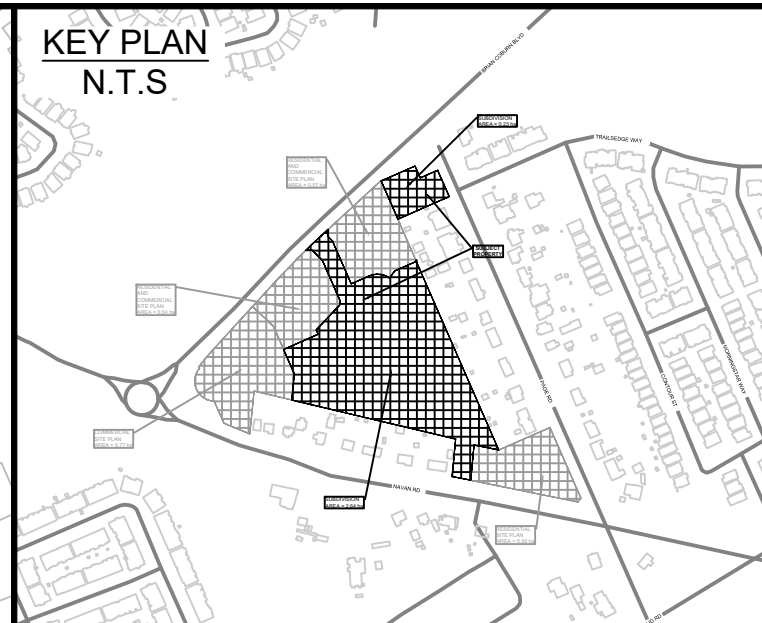
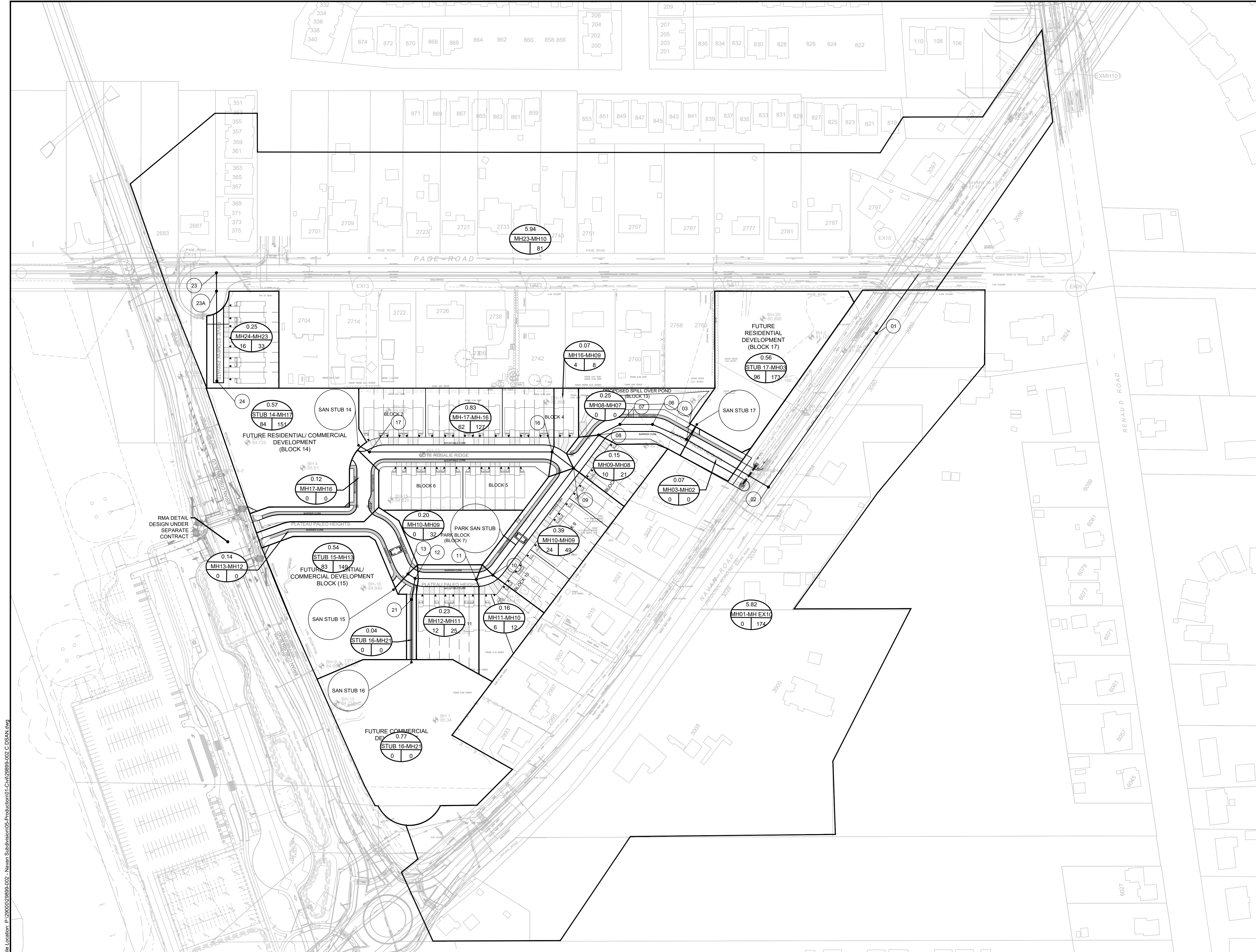
**STORM DRAINAGE PLAN**

DESIGN: TR	DRAWING #:
DRAWN: KT	<b>DST</b>
CHECKED: KF	
JLR #: 29899-002	

File Location: P:\2000\029899-002 - Navan Subdivision\05-Production\01-Civil\29899-002-C.DST.dwg

PLOT DATE September 20, 2024 3:51:19 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027





**LEGEND:**

- SAN DA BOUNDARY
- AREA IN HECTARES
- PIPE REACH UPSTREAM MAINTENANCE HOLE TO DOWNSTREAM MAINTENANCE HOLE
- POPULATION
- NUMBER OF UNITS

**POPULATION**  
 1 BEDROOM BASEMENT APARTMENT 1.4 PERS/UNIT  
 TOWNHOUSE (ROW) 2.7 PERS/UNIT

PROPOSED SANITARY SEWER & MANHOLE

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
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02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:1000

CLIENT:

CONSULTANT:

J.L. Richards  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**EAST RIDGE ORLEANS SUBDIVISION**

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
OTTAWA, ONTARIO

DRAWING:

**SANITARY DRAINAGE PLAN**

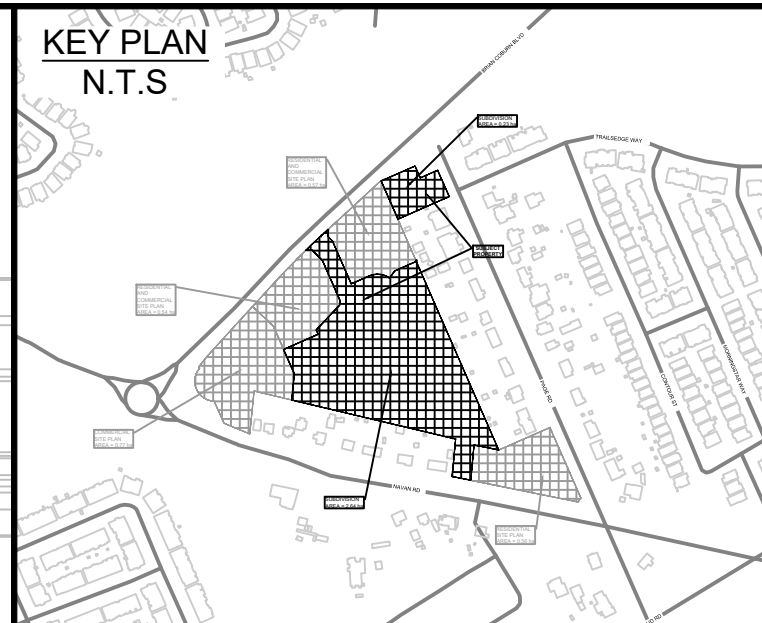
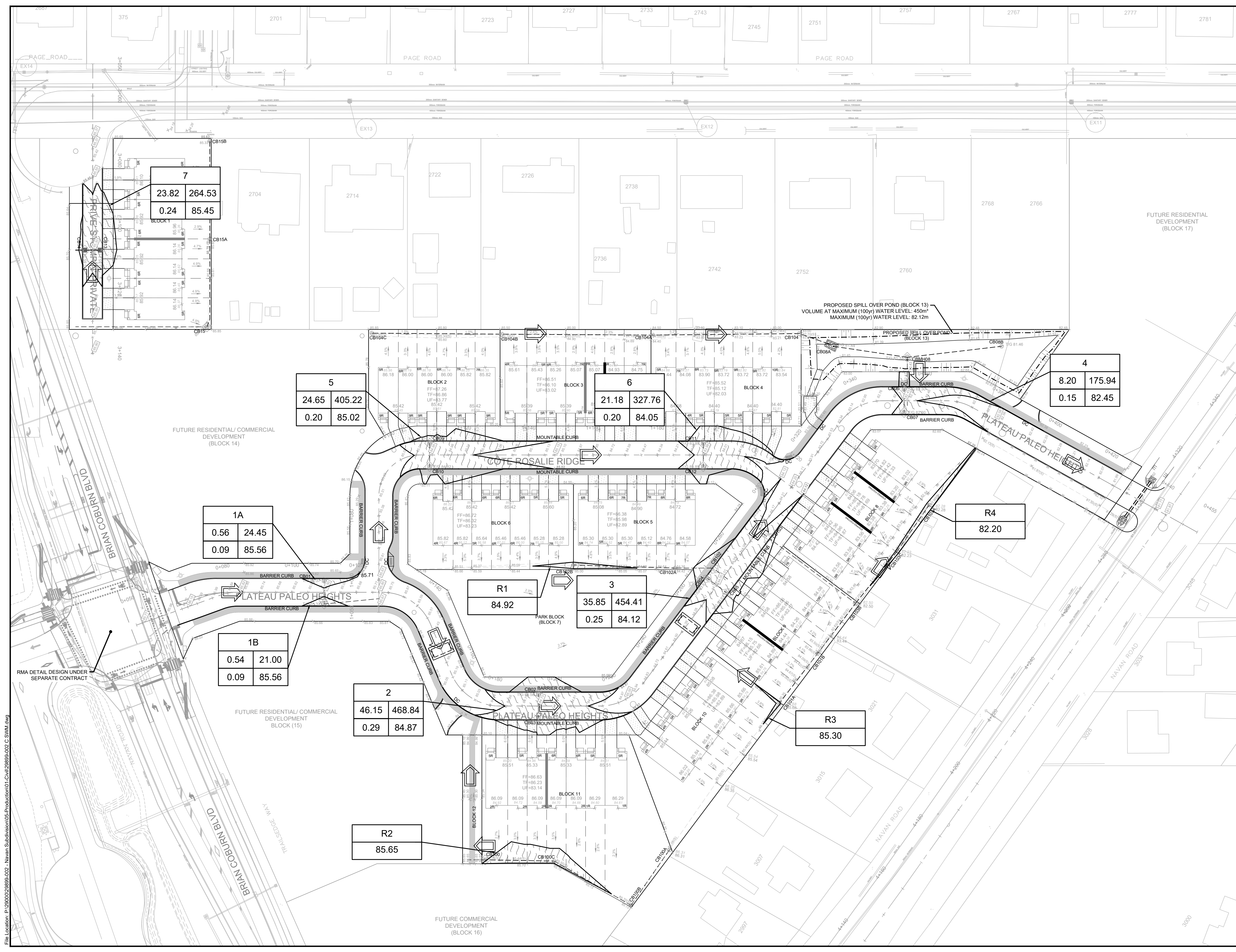
DESIGN: TR  
 DRAWN: KT  
 CHECKED: KF  
 JLR #: 29899-002

DRAWING #:  
**DSAN**

File Location: P:\2000\029899-002 - Navan Subdivision\05-Production\01-Civil\29899-002 C.DSAN.dwg

PLOT DATE September 20, 2024 3:51:55 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027





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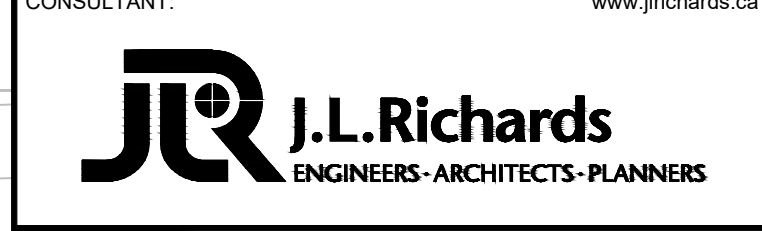
- MAXIMUM WATER LEVEL (STATIC)
- AREA ID
- MAX. PONDING VOLUME (m³)
- MAX. PONDING AREA (m²)
- MAX. WATER LEVEL (STATIC)
- PONDING DEPTH (STATIC)
- REAR YARD SWALE
- REAR YARD AREA ID
- MAX. WATER LEVEL (STATIC)

06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
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02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23
No.	ISSUE / REVISION	DDMMYY

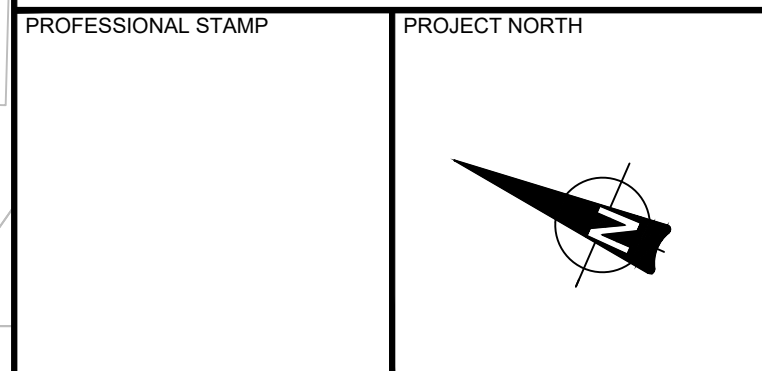
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: 1:500



PROFESSIONAL STAMP



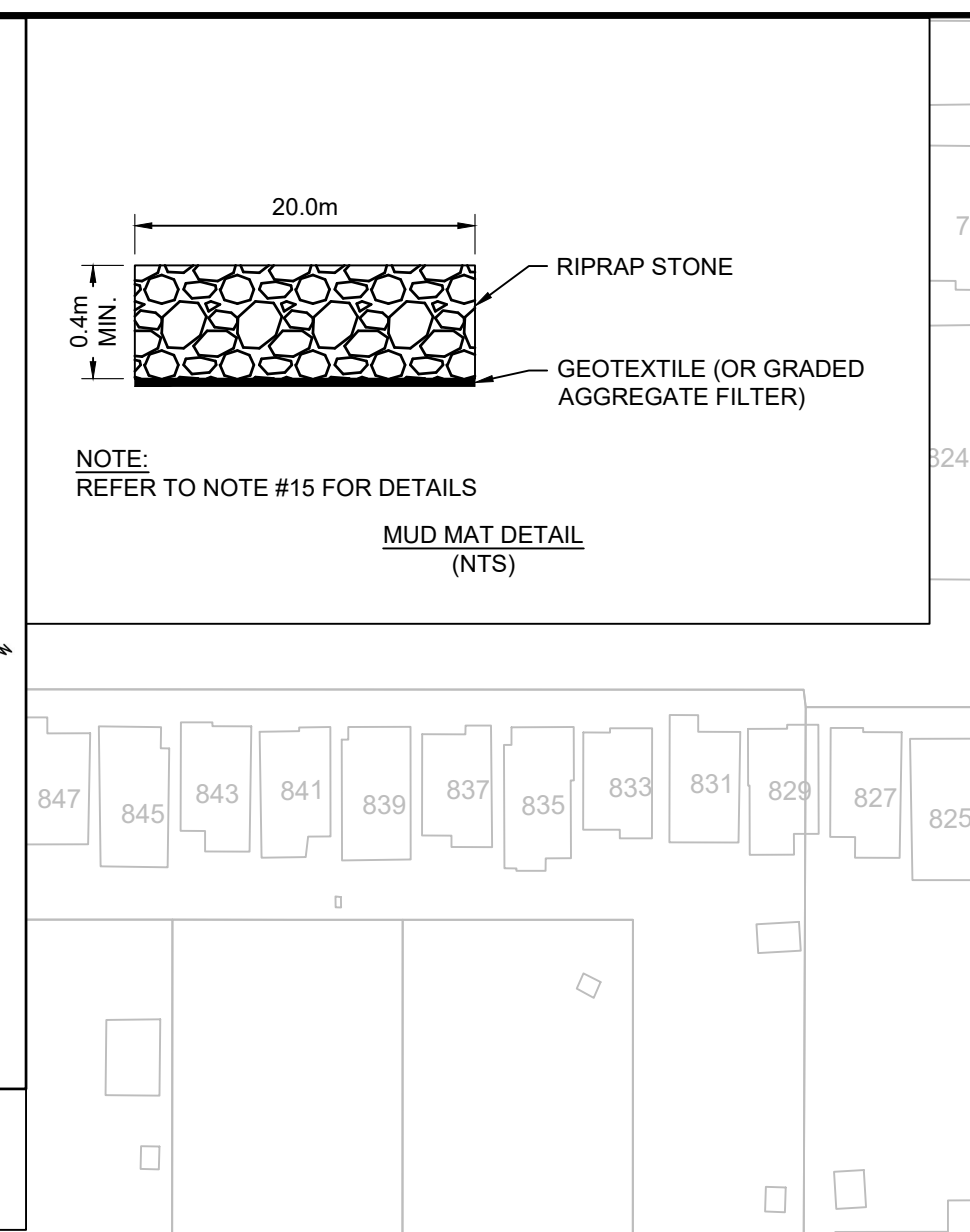
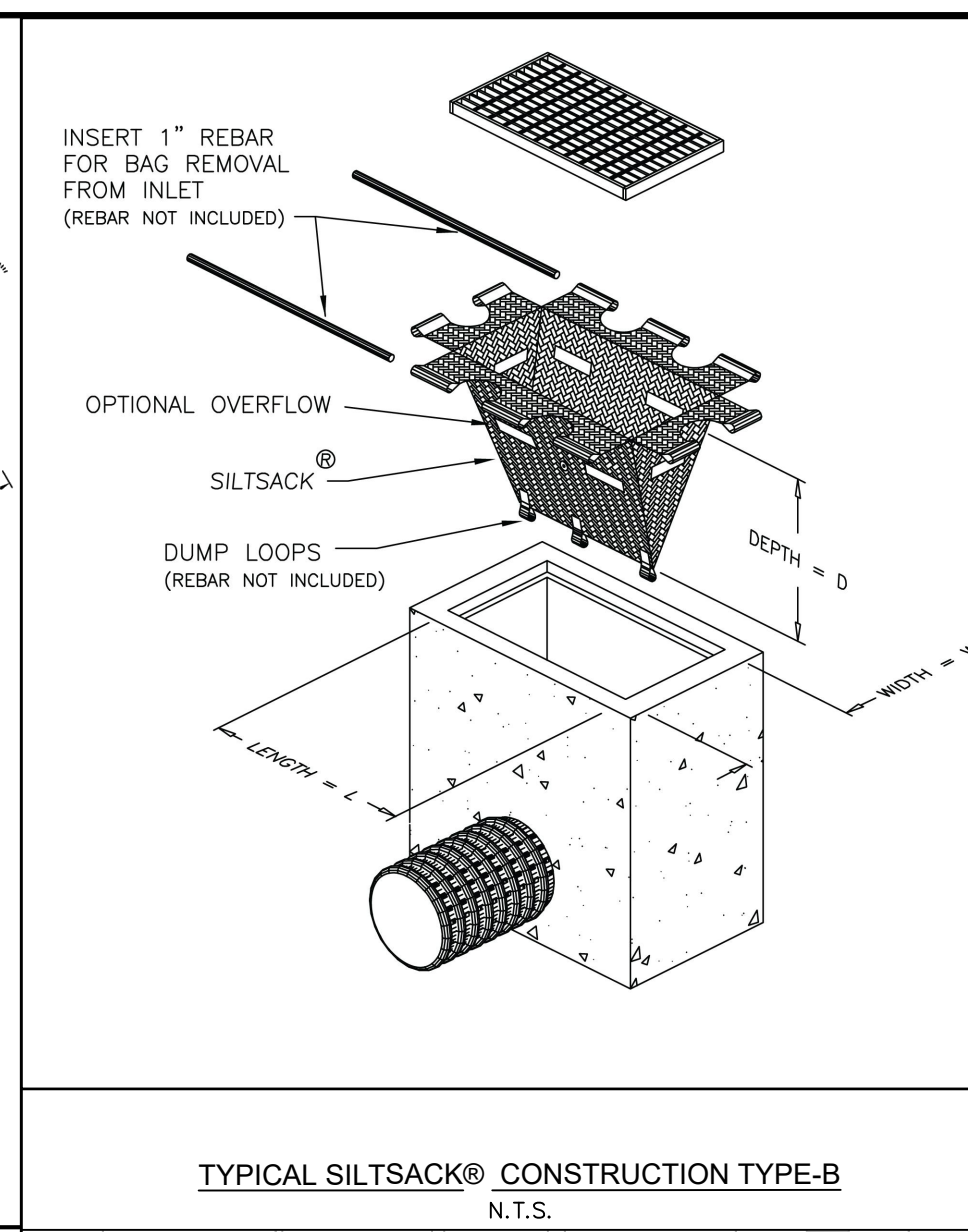
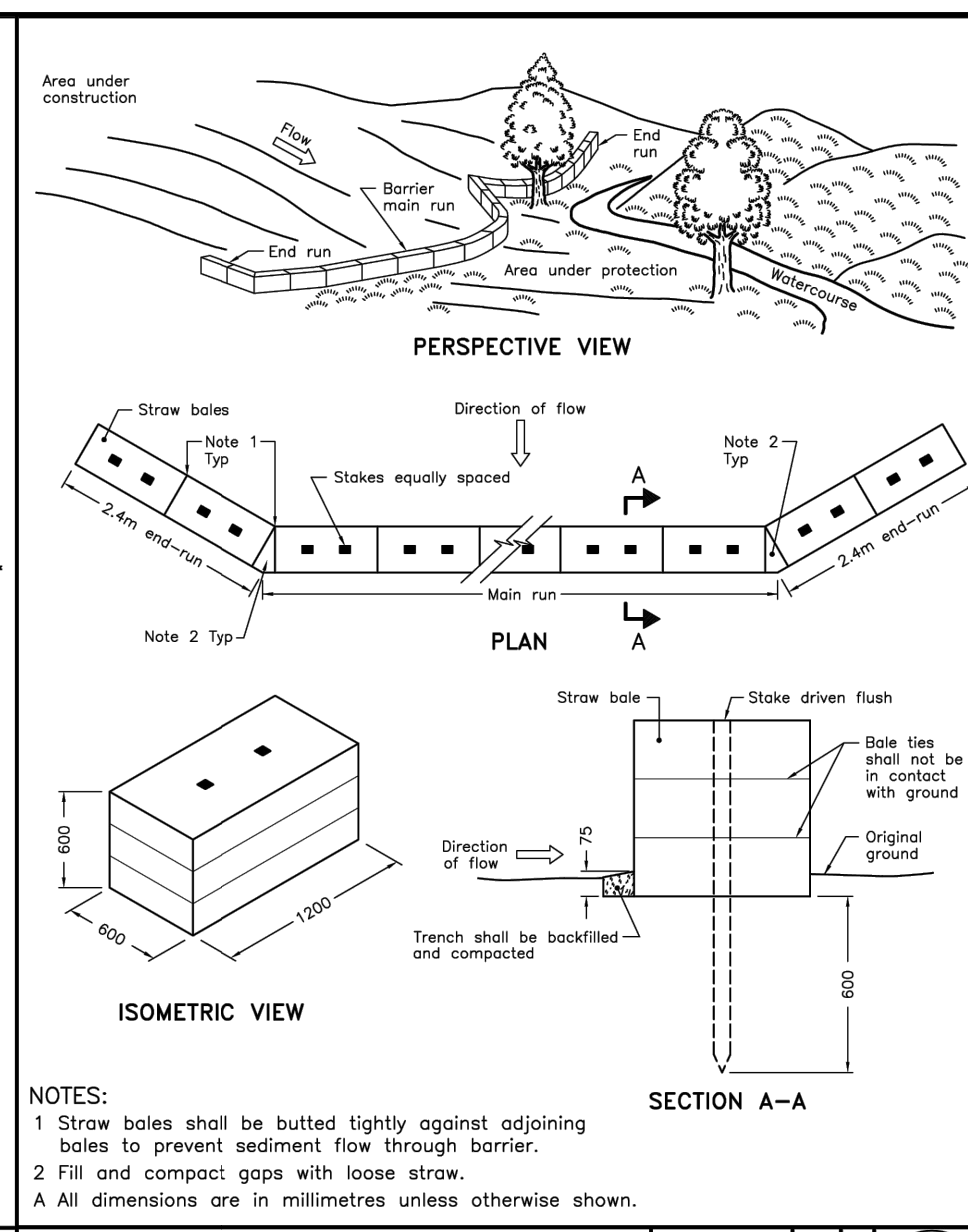
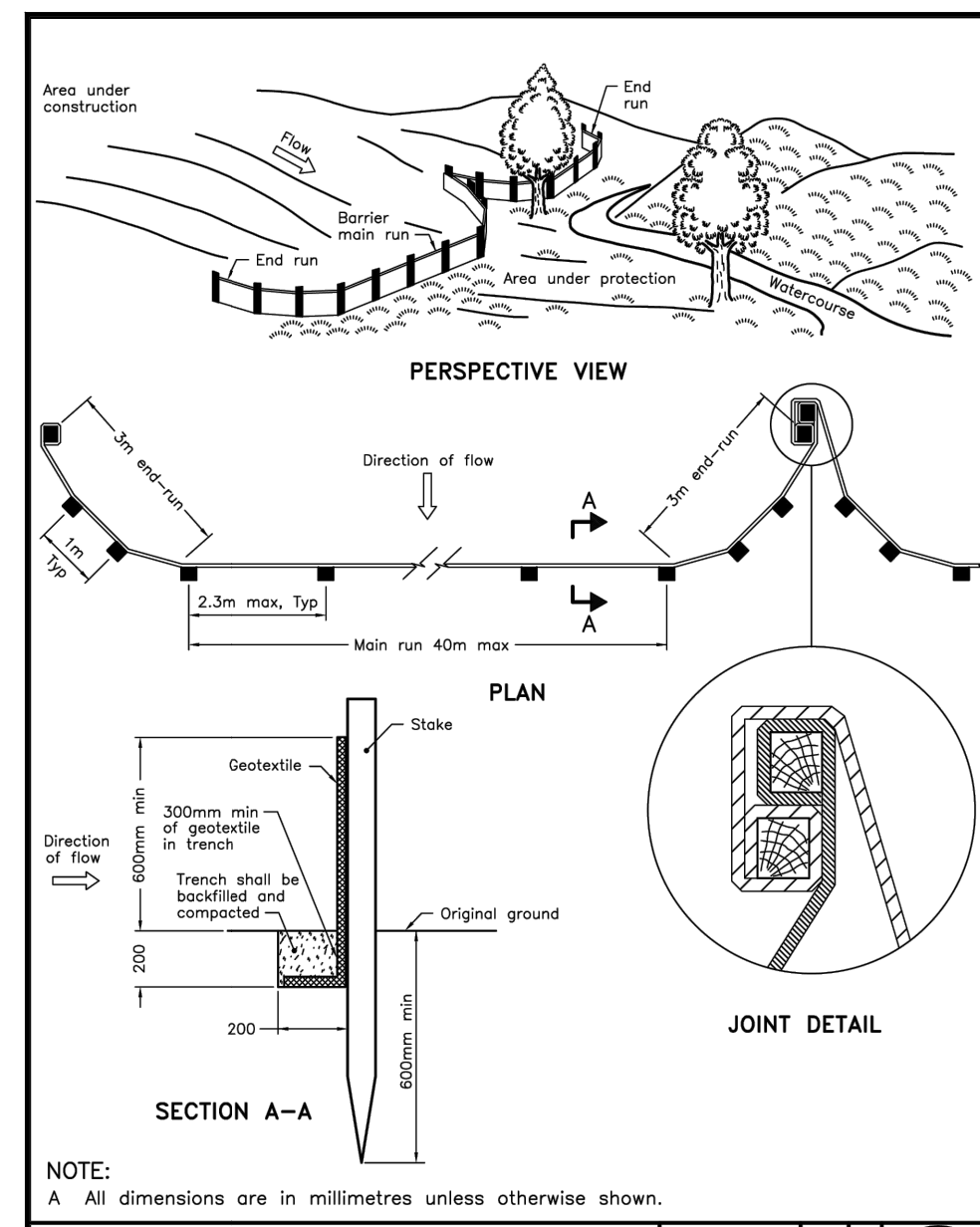
**PROJECT:**  
**EAST RIDGE ORLEANS SUBDIVISION**  
 2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
 OTTAWA, ONTARIO

**DRAWING:**

**PONDING PLAN**

DESIGN:	TR	DRAWING #:	<b>SWM</b>
DRAWN:	KT		
CHECKED:	KF		
JLR #:	29899-002		



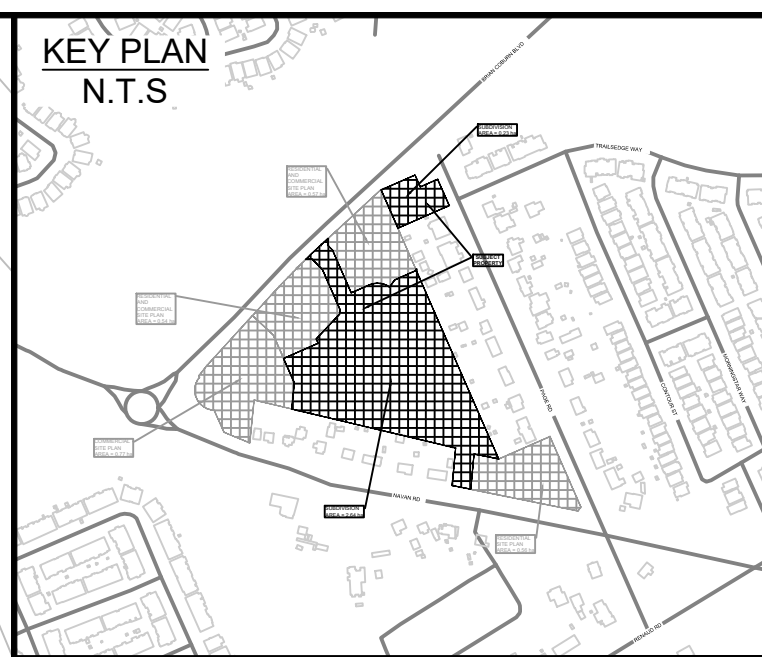


ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3  
**LIGHT-DUTY SILT FENCE BARRIER**  
 OPSD 219.110

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3  
**LIGHT-DUTY STRAW BALE BARRIER**  
 OPSD 219.100

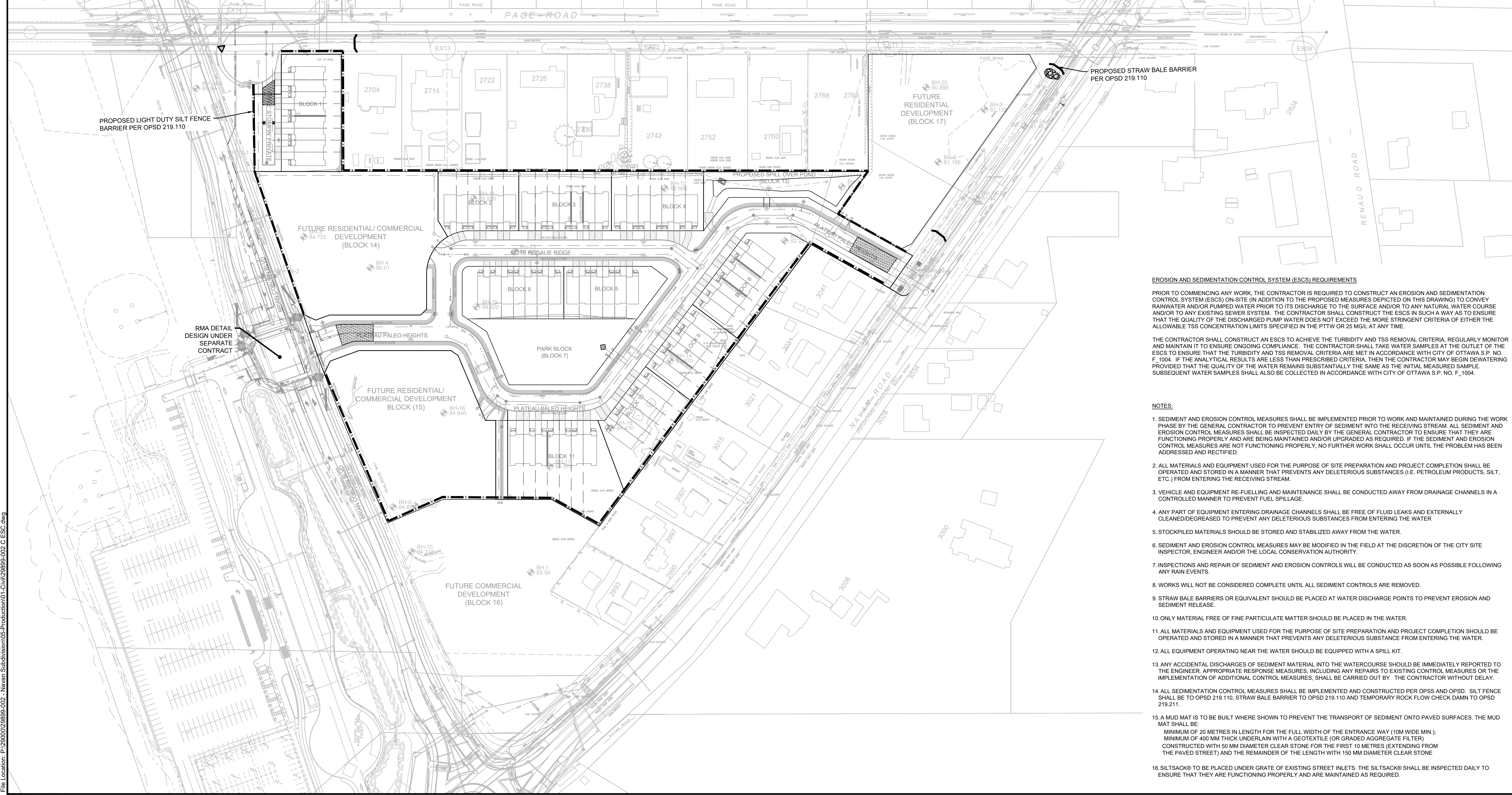
**TYPICAL SILTSACK® CONSTRUCTION TYPE-B**  
 N.T.S.

**MUD MAT DETAIL**  
 (N.T.S.)



LEGEND:

- PROPOSED SILT FENCE
- PROPOSED MUD MAT
- PROPOSED STRAW BALE BARRIER
- PROPOSED ROCK FLOW CHECK DAM
- SILTSACK® FOR EXISTING STREET INLET
- SILTSACK® FOR EXISTING CURB INLET CB'S

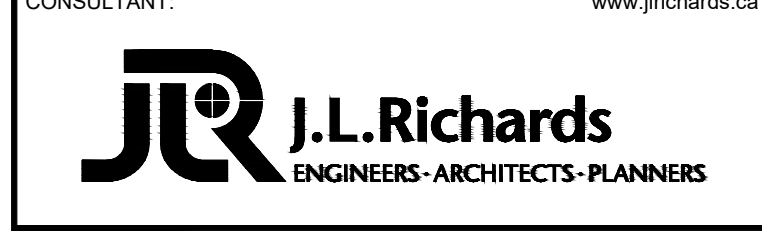


No.	ISSUE / REVISION	DDMMYY
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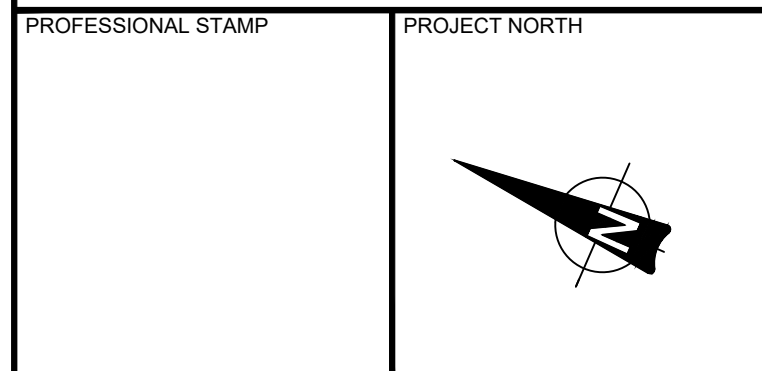
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:1000



CONSULTANT:



PROJECT:  
**EAST RIDGE ORLEANS SUBDIVISION**  
 2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD  
 OTTAWA, ONTARIO

DRAWING:  
**EROSION AND SEDIMENT CONTROL**

DESIGN: TR	DRAWING #:
DRAWN: KT	<b>ESC</b>
CHECKED: KF	
JLR #: 29899-002	

**EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) REQUIREMENTS**

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR IS REQUIRED TO CONSTRUCT AN EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) ON-SITE (IN ADDITION TO THE PROPOSED MEASURES DEPICTED ON THIS DRAWING) TO CONVEY RAINWATER AND/OR PUMPED WATER PRIOR TO ITS DISCHARGE TO THE SURFACE AND/OR TO ANY NATURAL WATER COURSE AND/OR TO ANY EXISTING SEWER SYSTEM. THE CONTRACTOR SHALL CONSTRUCT THE ESCS IN SUCH A WAY AS TO ENSURE THAT THE QUALITY OF THE DISCHARGED PUMP WATER DOES NOT EXCEED THE MORE STRINGENT CRITERIA OF EITHER THE ALLOWABLE TSS CONCENTRATION LIMITS SPECIFIED IN THE PTTW OR 25 MGL AT ANY TIME.

THE CONTRACTOR SHALL CONSTRUCT AN ESCS TO ACHIEVE THE TURBIDITY AND TSS REMOVAL CRITERIA, REGULARLY MONITOR AND MAINTAIN IT TO ENSURE ONGOING COMPLIANCE. THE CONTRACTOR SHALL TAKE WATER SAMPLES AT THE OUTLET OF THE ESCS TO ENSURE THAT THE TURBIDITY AND TSS REMOVAL CRITERIA ARE MET IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F. 1004. IF THE ANALYTICAL RESULTS ARE LESS THAN PRESCRIBED CRITERIA, THEN THE CONTRACTOR MAY BEGIN DEWATERING PROVIDED THAT THE QUALITY OF THE WATER REMAINS SUBSTANTIALLY THE SAME AS THE INITIAL MEASURED SAMPLE. SUBSEQUENT WATER SAMPLES SHALL ALSO BE COLLECTED IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F. 1004.

**NOTES:**

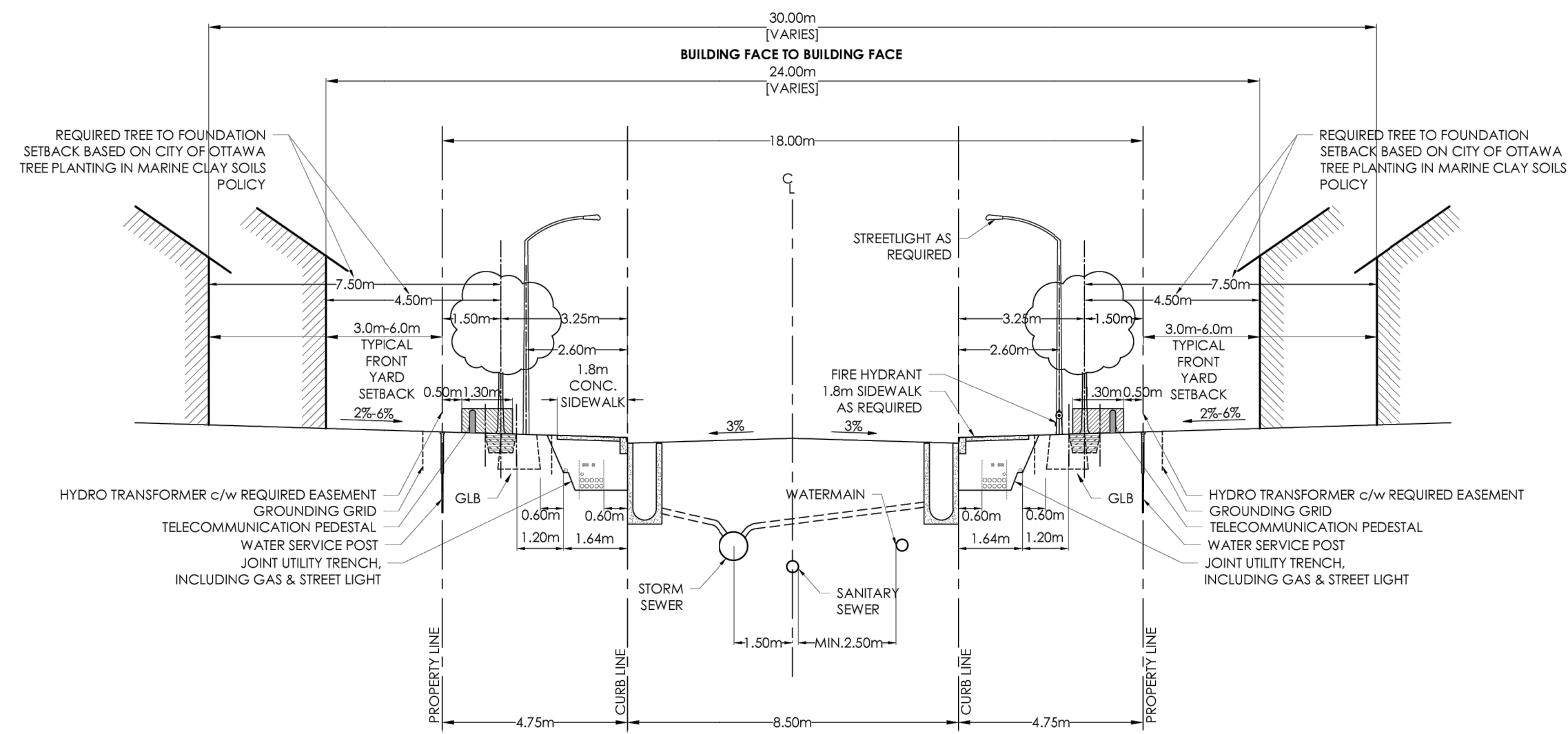
1. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO WORK AND MAINTAINED DURING THE WORK PHASE BY THE GENERAL CONTRACTOR TO PREVENT ENTRY OF SEDIMENT INTO THE RECEIVING STREAM. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE GENERAL CONTRACTOR TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE BEING MAINTAINED AND/OR UPGRADED AS REQUIRED. IF THE SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK SHALL OCCUR UNTIL THE PROBLEM HAS BEEN ADDRESSED AND RECTIFIED.
2. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCES (I.E. PETROLEUM PRODUCTS, SILT, ETC.) FROM ENTERING THE RECEIVING STREAM.
3. VEHICLE AND EQUIPMENT RE-FUELLING AND MAINTENANCE SHALL BE CONDUCTED AWAY FROM DRAINAGE CHANNELS IN A CONTROLLED MANNER TO PREVENT FUEL SPILLAGE.
4. ANY PART OF EQUIPMENT ENTERING DRAINAGE CHANNELS SHALL BE FREE OF FLUID LEAKS AND EXTERNALLY CLEANED/DEGREASED TO PREVENT ANY DELETERIOUS SUBSTANCES FROM ENTERING THE WATER.
5. STOCKPILED MATERIALS SHOULD BE STORED AND STABILIZED AWAY FROM THE WATER.
6. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY SITE INSPECTOR, ENGINEER AND/OR THE LOCAL CONSERVATION AUTHORITY.
7. INSPECTIONS AND REPAIR OF SEDIMENT AND EROSION CONTROLS WILL BE CONDUCTED AS SOON AS POSSIBLE FOLLOWING ANY RAIN EVENTS.
8. WORKS WILL NOT BE CONSIDERED COMPLETE UNTIL ALL SEDIMENT CONTROLS ARE REMOVED.
9. STRAW BALE BARRIERS OR EQUIVALENT SHOULD BE PLACED AT WATER DISCHARGE POINTS TO PREVENT EROSION AND SEDIMENT RELEASE.
10. ONLY MATERIAL FREE OF FINE PARTICULATE MATTER SHOULD BE PLACED IN THE WATER.
11. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHOULD BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THE WATER.
12. ALL EQUIPMENT OPERATING NEAR THE WATER SHOULD BE EQUIPPED WITH A SPILL KIT.
13. ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
14. ALL SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AND CONSTRUCTED PER OPSS AND OPSD. SILT FENCE SHALL BE TO OPSD 219.110, STRAW BALE BARRIER TO OPSD 219.110 AND TEMPORARY ROCK FLOW CHECK DAM TO OPSD 219.211.
15. A MUD MAT IS TO BE BUILT WHERE SHOWN TO PREVENT THE TRANSPORT OF SEDIMENT ONTO PAVED SURFACES. THE MUD MAT SHALL BE:
  - MINIMUM OF 20 METRES IN LENGTH FOR THE FULL WIDTH OF THE ENTRANCE WAY (10M WIDE MIN.);
  - MINIMUM OF 400 MM THICK UNDERLAIN WITH A GEOTEXTILE (OR GRADED AGGREGATE FILTER)
  - CONSTRUCTED WITH 50 MM DIAMETER CLEAR STONE FOR THE FIRST 10 METRES (EXTENDING FROM THE PAVED STREET) AND THE REMAINDER OF THE LENGTH WITH 150 MM DIAMETER CLEAR STONE
16. SILTSACK® TO BE PLACED UNDER GRATE OF EXISTING STREET INLETS. THE SILTSACK® SHALL BE INSPECTED DAILY TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE MAINTAINED AS REQUIRED.

File Location: P:\2000\29899-002 - Navan Subdivision\05-Production\01-Civil\29899-002-C.ESC.dwg

PLOT DATE: September 20, 2024 3:53:05 PM  
 CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027



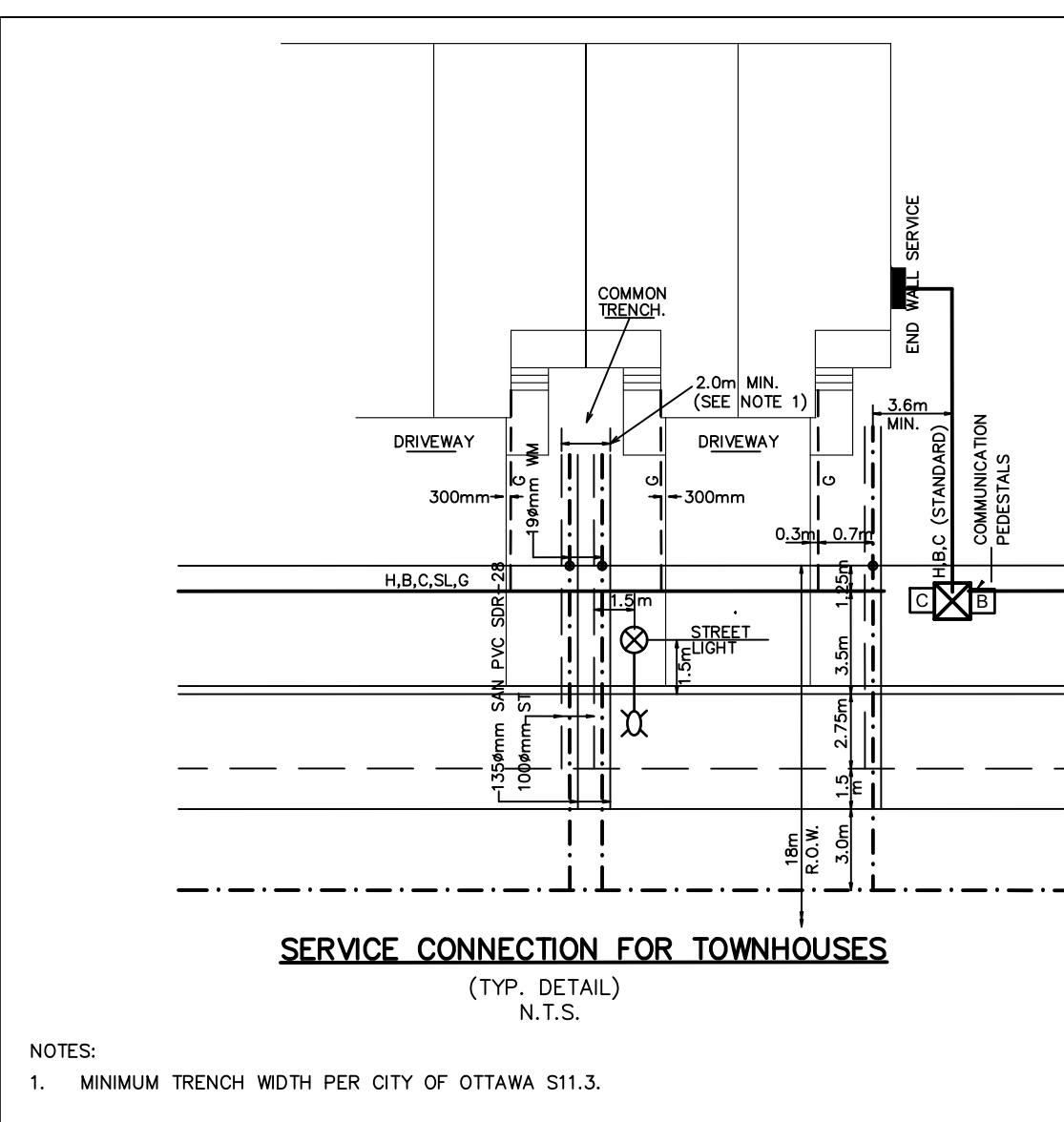
- STANDARD CROSS-SECTIONS TO BE READ IN CONJUNCTION WITH THE GENERAL STANDARD CROSS-SECTION NOTES AND OTHER APPLICABLE CITY AND UTILITY PLANS AND DETAILS.
- 1.8M RIGHT-OF-WAY NOT TO BE USED ON STREETS WITH BUS SERVICE.
- CONCRETE CURBS TO BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARD DETAILS.
- TYPICAL FRONT YARD SETBACK IS TO BE CLEAR AND UNENCUMBERED OF ANY SUBSURFACE BUILDING ENCROACHMENTS.
- FIRE HYDRANTS TO BE LOCATED ON THE WATERMAIN SIDE OF THE STREET.
- CATCH BASINS TO BE PER CITY OF OTTAWA DETAIL S2.
- GAS MAIN SHALL HAVE A MINIMUM OF 0.6M CLEARANCE FROM STRUCTURES E.G. CATCH BASINS AND HYDRANTS) AND 1.2 M FROM TREE ROOT BALL.
- STREETLIGHTS CAN BE LOCATED ON EITHER SIDE OF THE RIGHT-OF-WAY.
- JOINT-USE UTILITY TRENCH (JUT) UNDER SIDEWALK AS PER DETAIL UD30049 HELD BY HYDRO OTTAWA.
- GRADE LEVEL BOX (GLB) AS DRAWN SHOWS GLB3660. EXACT LOCATION TO BE CONFIRMED.
- THIS CROSS-SECTION CANNOT BE USED WHERE A CONCRETE ENCASED HYDROELECTRIC DUCT OR ANOTHER SEPARATE UTILITY DUCT IS REQUIRED.
- TREE CLEARANCES TO HYDRO OTTAWA PLANT SHALL FOLLOW GC30038.
- CLEARANCES SHOWN ARE MINIMUMS.



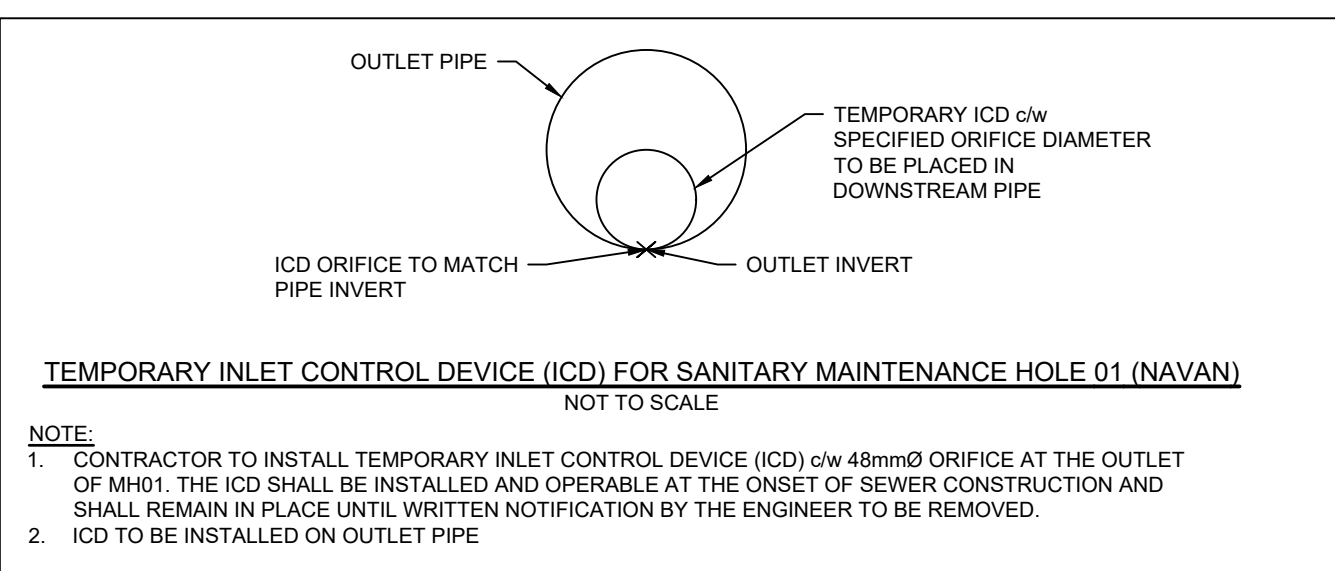
18.0m ROW CROSS SECTION

REV. DATE: AUG. 2022

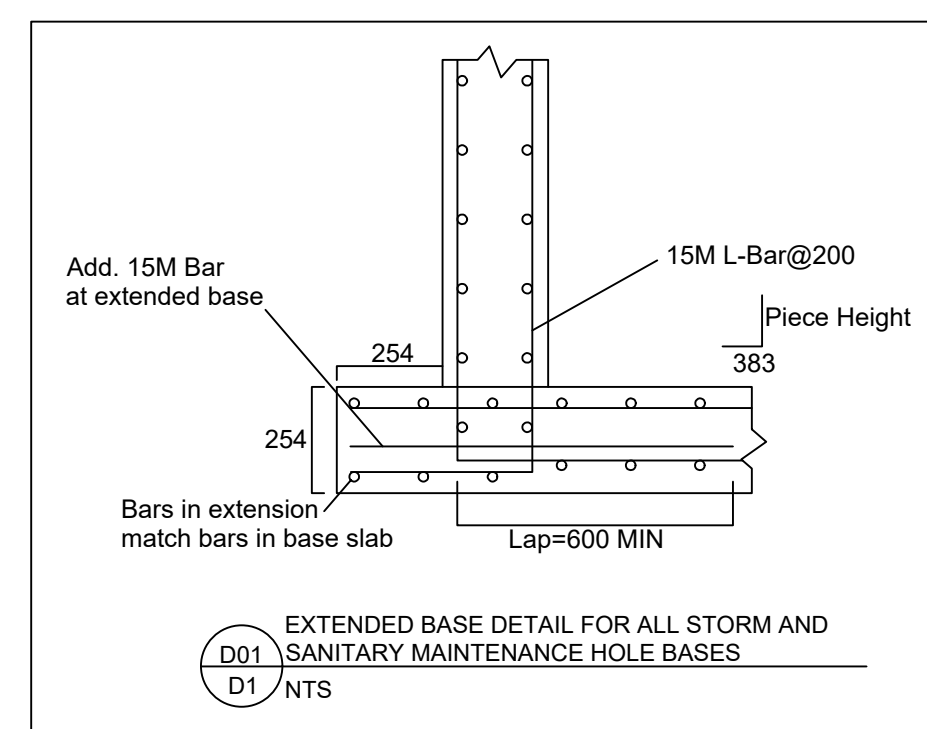
DWG. No. ROW-18.0



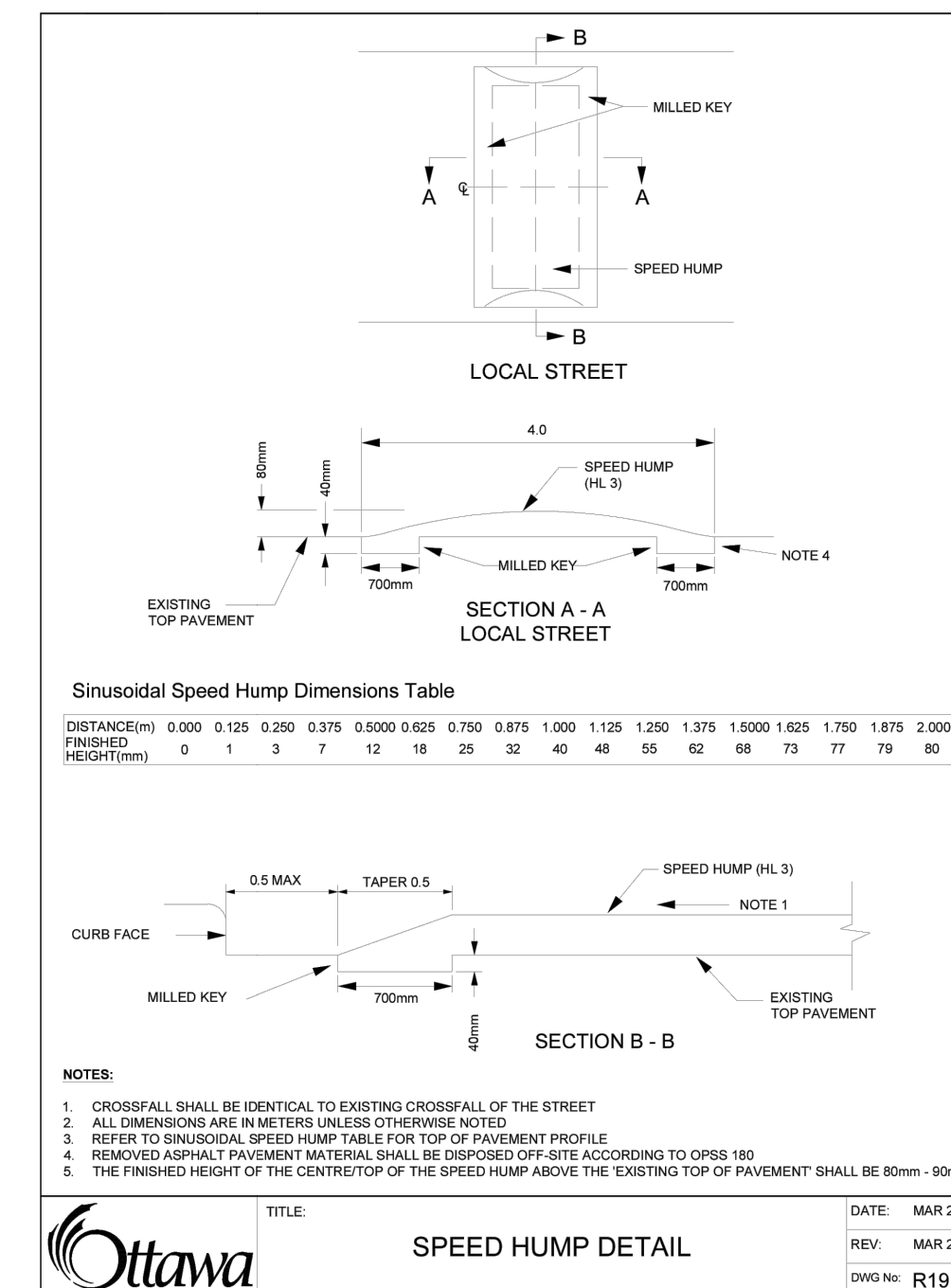
- NOTES:
- MINIMUM TRENCH WIDTH PER CITY OF OTTAWA S11.3.



- NOTE:
- CONTRACTOR TO INSTALL TEMPORARY INLET CONTROL DEVICE (ICD) c/w 48mm Ø ORIFICE AT THE OUTLET OF MH01. THE ICD SHALL BE INSTALLED AND OPERABLE AT THE ONSET OF SEWER CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL WRITTEN NOTIFICATION BY THE ENGINEER TO BE REMOVED.
  - ICD TO BE INSTALLED ON OUTLET PIPE



D01 NTS

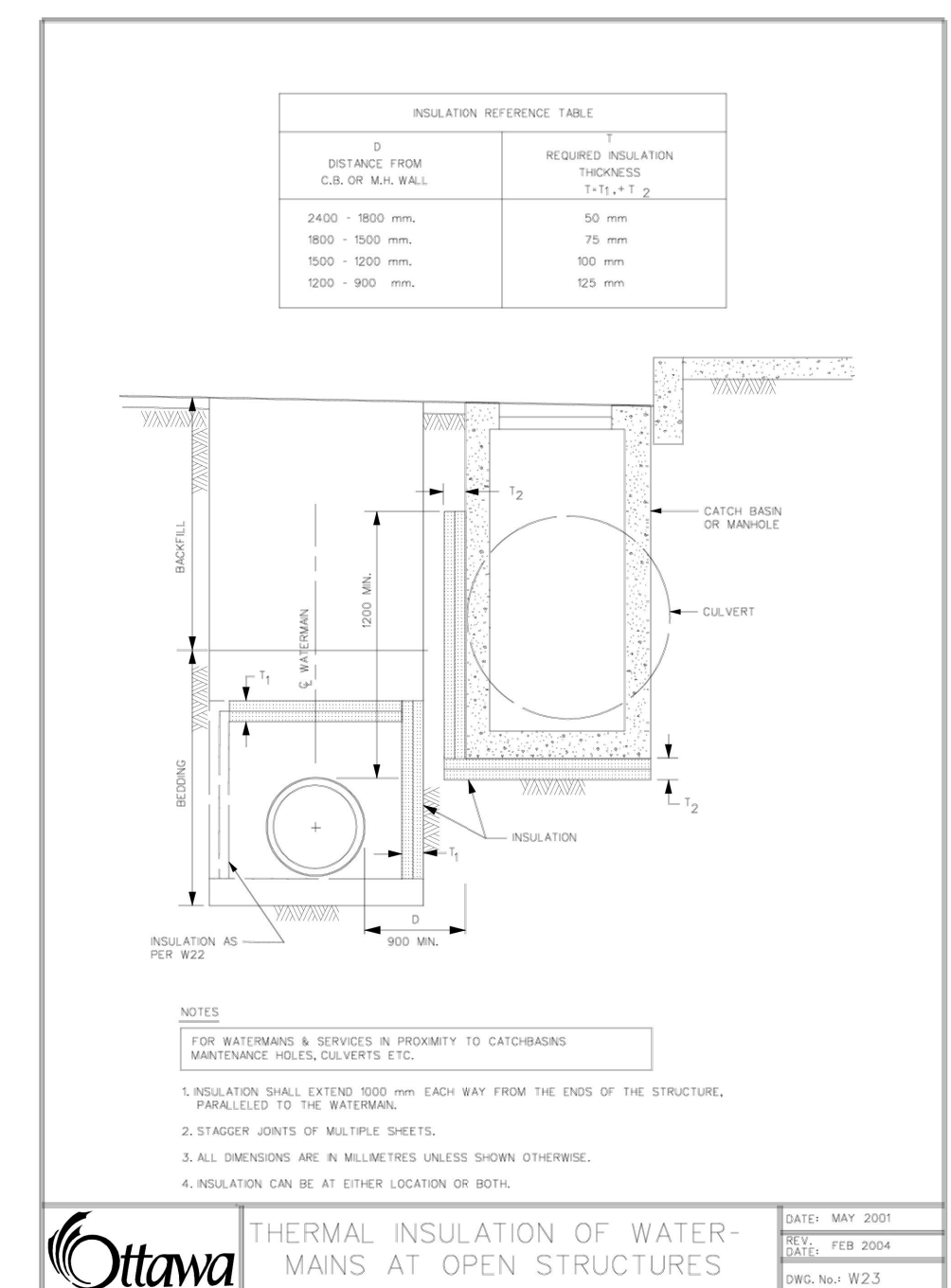


Sinusoidal Speed Hump Dimensions Table

DISTANCE FROM FINISHED HEIGHT (mm)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HEIGHT (mm)	0	0.00	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.375	1.50	1.625	1.75	1.875	2.00	2.125	2.25	2.375	2.50	2.625	2.75	2.875	3.00	3.125	3.25	3.375	3.50	3.625	3.75	3.875	4.00	4.125	4.25	4.375	4.50	4.625	4.75	4.875	5.00	5.125	5.25	5.375	5.50	5.625	5.75	5.875	6.00	

- NOTES:
- CROSSFALL SHALL BE IDENTICAL TO EXISTING CROSSFALL OF THE STREET
  - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
  - REFER TO SINUSOIDAL SPEED HUMP TABLE FOR TOP OF PAVEMENT PROFILE
  - REMOVED ASPHALT PAVEMENT MATERIAL SHALL BE DISPOSED OFF-SITE ACCORDING TO DP85 180
  - THE FINISHED HEIGHT OF THE CENTRETOP OF THE SPEED HUMP ABOVE THE EXISTING TOP OF PAVEMENT SHALL BE 80mm - 50mm

DATE: MAR 2008  
REV: MAR 2023  
DWG No: R19

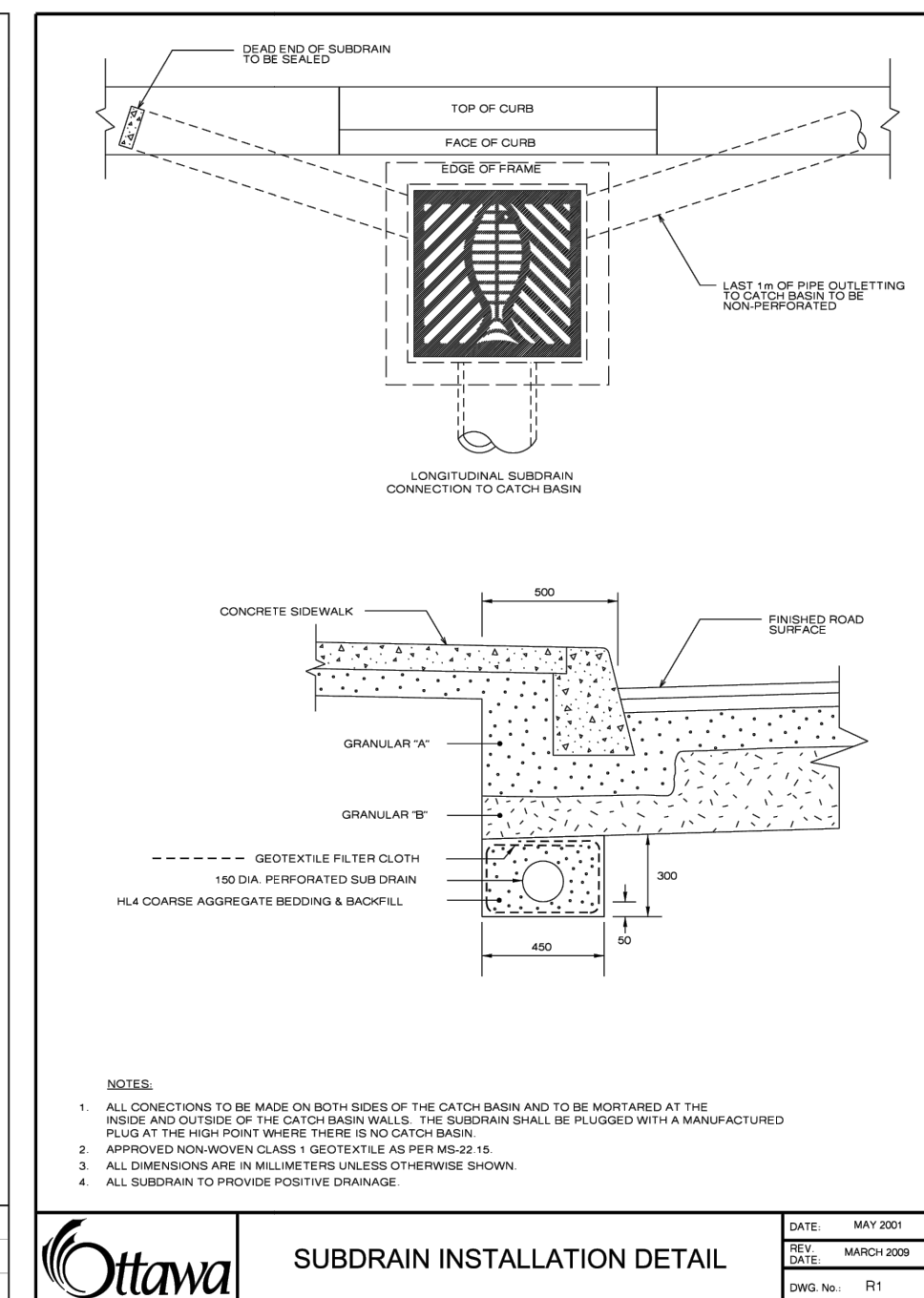


INSULATION REFERENCE TABLE

DISTANCE FROM C.B. OF W.A. WALL	REQUIRED INSULATION THICKNESS
2400 - 1800 mm	50 mm
1800 - 1500 mm	75 mm
1500 - 1200 mm	100 mm
1200 - 900 mm	125 mm

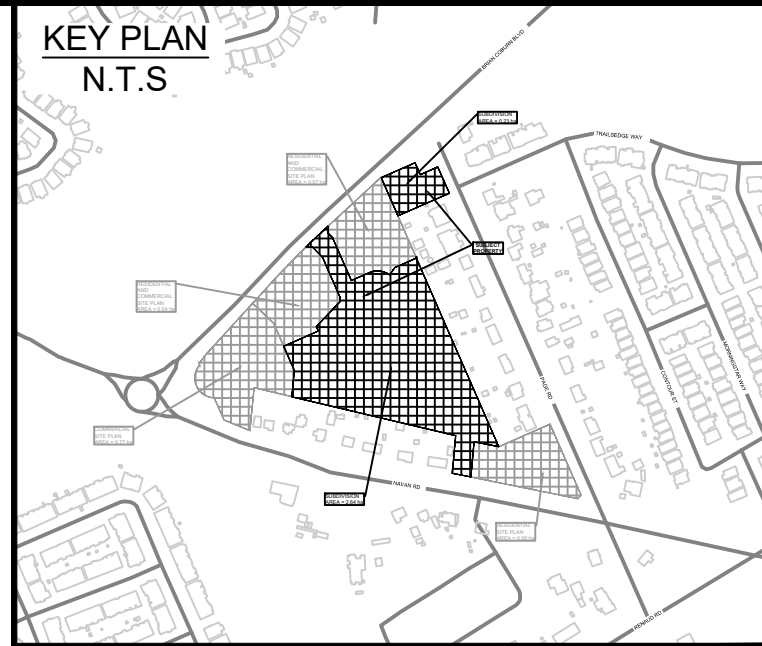
- NOTES:
- INSULATION SHALL EXTEND 1000 mm EACH WAY FROM THE ENDS OF THE STRUCTURE, PARALLEL TO THE WATERMAIN
  - STAGGER JOINTS OF MULTIPLE SHEETS
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE
  - INSULATION CAN BE AT EITHER LOCATION OR BOTH

DATE: MAY 2007  
REV: FEB 2004  
DWG No: W2.3



- NOTES:
- ALL CONNECTIONS TO BE MADE ON BOTH SIDES OF THE CATCH BASIN AND TO BE MONITORED AT THE INLET AND OUTLET OF THE CATCH-BASIN WALLS. THE SUBDRAIN SHALL BE PLUGGED WITH A MANUFACTURED PLUG AT THE HIGH POINT THERE WITH A CATCH BASIN
  - APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MG 21 11
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN
  - ALL SUBDRAIN TO PROVIDE POSITIVE DRAINAGE

DATE: MAY 2007  
REV: MARCH 2023  
DWG No: R1

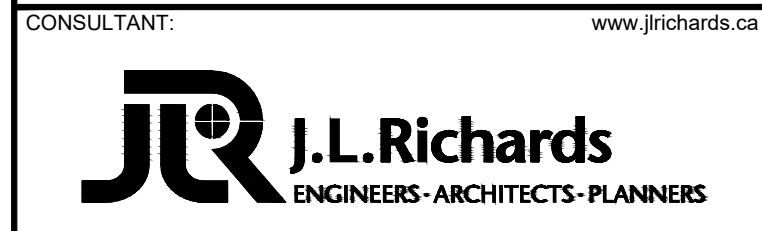


No.	ISSUE / REVISION	DDMMYY
06	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD RE-SUBMISSION)	20/09/24
05	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (THIRD SUBMISSION)	27/08/24
04	RE-ISSUED FOR MUNICIPAL CONSENT	04/03/24
03	RE-ISSUED TO CITY FOR ENGINEERING REVIEW (SECOND SUBMISSION)	16/02/24
02	ISSUED FOR MUNICIPAL CONSENT	09/02/24
01	ISSUED TO CITY FOR ENGINEERING REVIEW	22/09/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 0 25mm



CONSULTANT: J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS

PROFESSIONAL STAMP: PROJECT NORTH

PROJECT: EAST RIDGE ORLEANS SUBDIVISION

2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING: DETAILS AND CROSS SECTIONS

DESIGN: TR	DRAWING #:
DRAWN: KT	CHECKED: KF
JLR #:	29889-002

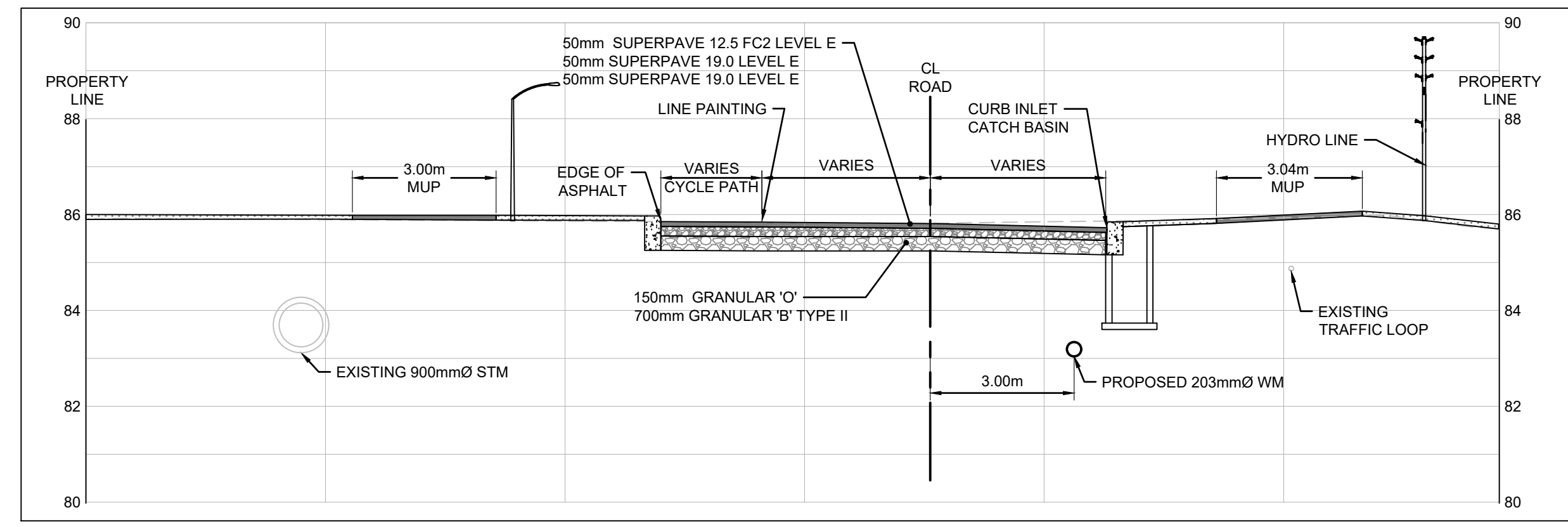
D1



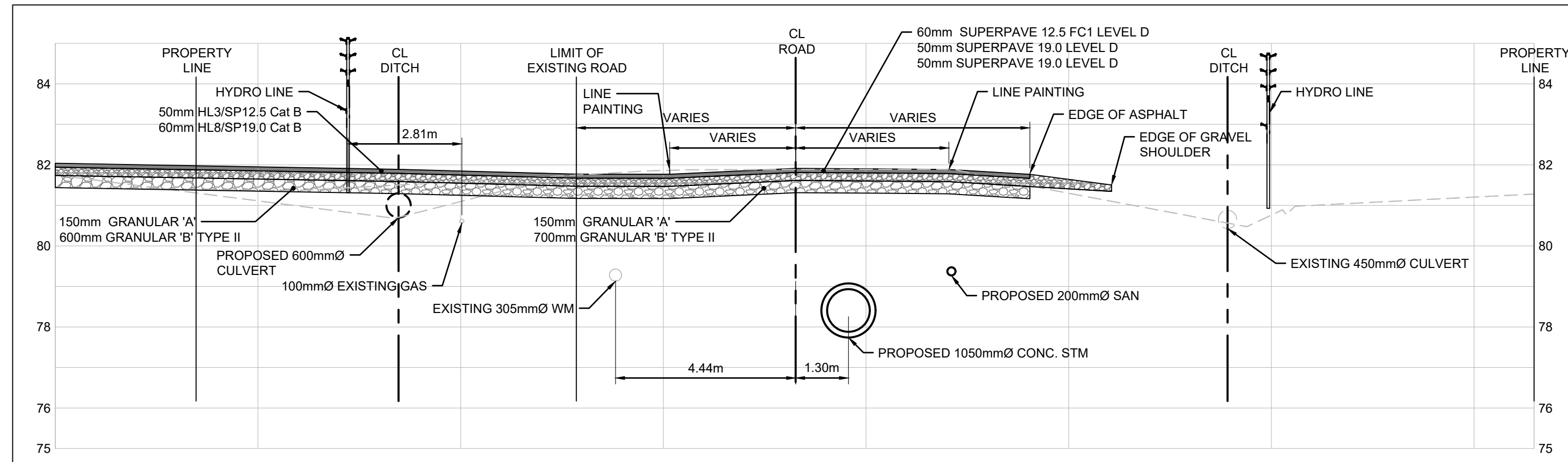
STREET CATCHBASINS										
Street Name	CB ID Number	T/G	Inlet		Outlet		Rational Method Capture Rate (85 L/s/ha)	Max Depth (100 yr) (m) (Excel)	1:100 Yr Restricted Capture Rate (L/s)	ICD TYPE
			Pipe Dia. (mm)	Invert	Pipe Dia. (mm)	Invert				
PALEO DRIVE	CB01	85.37	-	-	200	84.07	-	-	-	NO ICD
	CBM-H517A	85.37	200	84.00	250	83.94	13.00	1.61	12.00	Vortex ICD 105
	CB02	84.58	-	-	200	83.18	11.00	1.59	11.00	Vortex ICD 100
	CB03	84.58	-	-	200	83.18	16.00	1.59	23.00	MHF IPEX TYPE A
	CB04	83.87	-	-	200	82.47	12.50	1.64	13.00	Vortex ICD 105
	CB05	83.87	-	-	200	82.47	12.50	1.64	13.00	Vortex ICD 105
	CB06	82.3	-	-	200	80.90	7.50	1.54	12.00	Vortex ICD 105
ROSALIA STREET	CB07	82.3	-	-	200	80.90	7.50	1.54	12.00	Vortex ICD 105
	CB09	84.82	-	-	200	83.42	13.00	1.63	12.00	Vortex ICD 105
	CB10	84.82	-	-	200	83.42	13.00	1.63	12.00	Vortex ICD 105
	CB11	83.85	-	-	200	82.45	13.00	1.64	13.00	Vortex ICD 105
STOMPIN' TOM LANE	CB12	83.85	-	-	200	82.45	13.00	1.64	13.00	Vortex ICD 105
	CB13	85.21	-	-	200	83.81	-	-	-	NO ICD
EASEMENT	STOMP TOM ICD	85.68	675	81.53	300	81.53	22.00	3.89	14.00	Vortex ICD 95

\*The Rational Method Capture Rate along Stomp'n Tom Lane is based on the 2-yr Flows

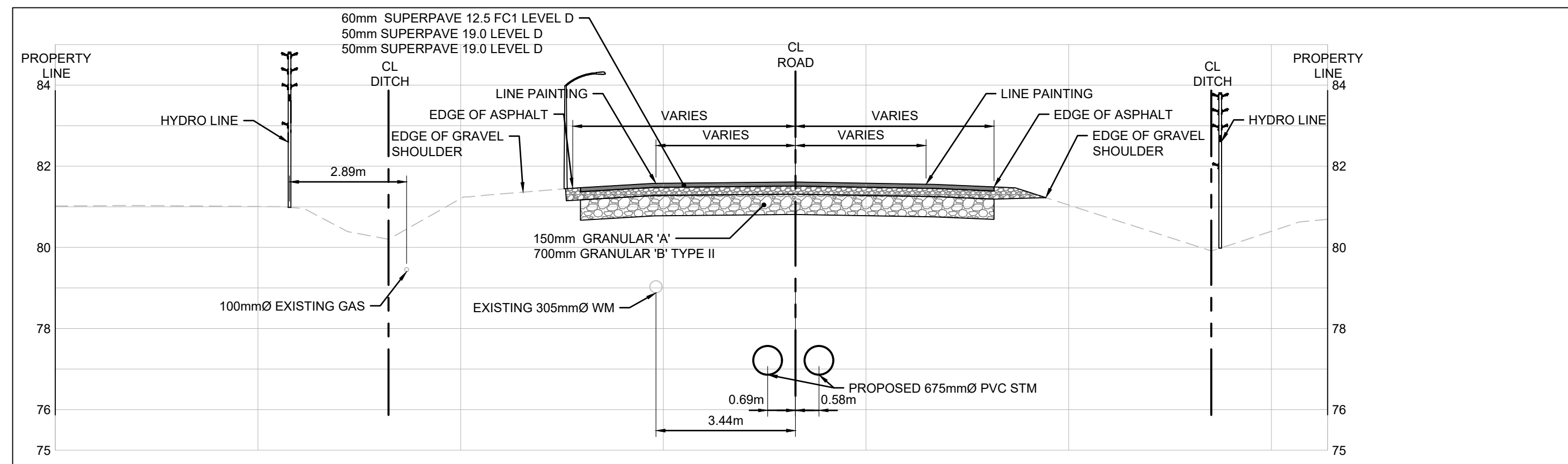
REAR YARD CATCH BASIN TABLE													
Street Name	CB ID Number	T/G	Inlet				Outlet				Drop (m)	1:100 Yr Restricted Capture Rate (L/s)	ICD TYPE
			Pipe Dia. (mm)	Pipe Length (m)	Slope	Invert	Cover	Pipe Dia. (mm)	Pipe Length (m)	Invert			
BLOCK 1	CB15B	85.33	-	-	-	-	250	30.41	83.880	1.20	-	-	NO ICD
	CB15A	85.78	250	30.41	0.5%	83.728	1.80	27.48	83.728	1.80	-	-	NO ICD
	CB15	85.50	250	27.48	0.5%	83.591	1.66	40.83	83.591	1.66	14.00	-	Vortex ICD 105
BLOCK 11	CB100A	86.08	-	-	-	-	250	20.91	84.330	1.50	-	-	NO ICD
	CB100B	85.70	250	20.91	1.0%	84.118	1.33	27.56	84.118	1.33	-	-	NO ICD
	CB100C	85.53	250	27.56	0.8%	83.885	1.40	21.46	83.885	1.40	-	-	NO ICD
BLOCK 2, 3, 4	CB100	85.30	250	21.46	1.2%	83.627	1.42	5.50	83.627	1.42	47.00	-	MHF IPEX TYPE C
	CB104C	85.50	-	-	-	-	250	40.46	83.650	1.60	-	-	NO ICD
	CB104B	85.10	250	40.46	1.0%	83.226	1.62	46.92	83.226	1.62	-	-	NO ICD
	CB104A	84.00	250	46.92	2.0%	82.288	1.46	46.44	82.288	1.46	-	-	NO ICD
POND	CB104	82.70	250	46.44	1.5%	81.587	0.86	10.05	81.587	0.86	-	-	NO ICD
	CB08A	81.44	-	-	-	-	250	23.18	79.940	1.25	-	-	NO ICD
	CB08B	81.46	-	-	-	-	250	29.52	79.960	1.25	-	-	NO ICD
BLOCK 5	CBMH08	81.32	250	23.18	0.9%	79.728	1.34	14.99	79.558	1.51	0.17	6.00	Vortex ICD 65
	CB102B	84.62	-	-	-	-	250	31.60	82.970	1.40	-	-	NO ICD
	CB102A	84.38	250	31.60	1.0%	82.654	1.48	11.77	82.654	1.48	-	-	NO ICD
BLOCK 8 & 9	CB102	83.89	250	11.77	2.0%	82.419	1.22	4.51	82.419	1.22	8.00	-	Vortex ICD 80
	CB101A	85.15	-	-	-	-	900	19.61	81.490	2.76	-	-	NO ICD
	CB101B	83.86	900	19.61	1.0%	81.294	1.67	19.48	81.294	1.67	-	-	NO ICD
	CB103A	81.90	-	-	-	-	300	17.39	80.650	0.95	-	-	NO ICD
	CB103C	82.08	300	17.39	0.5%	80.563	1.21	20.77	80.563	1.21	-	-	NO ICD
BLOCK 8 & 9	CB103B	82.25	900	19.48	1.0%	81.099	0.25	33.45	80.399	1.60	0.06	-	NO ICD
	CB103	84.01	250	33.45	1.0%	80.057	3.70	1.60	80.057	3.70	59.00	-	MHF IPEX TYPE D



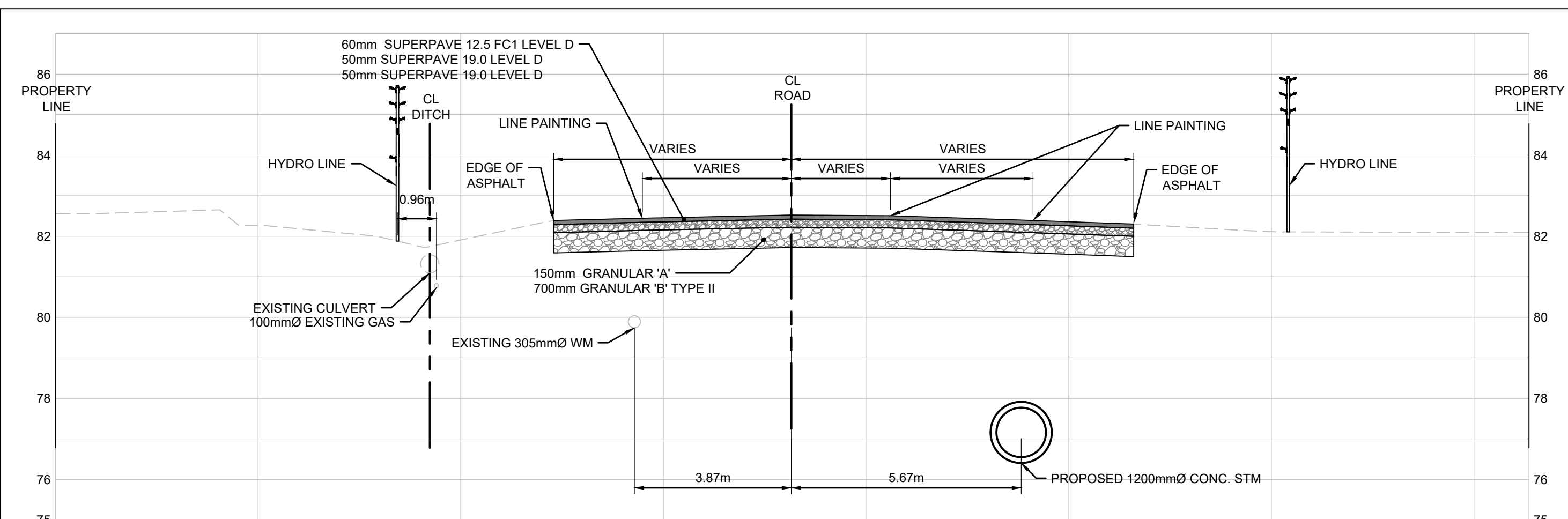
A BRIAN COBURN CROSS SECTION 1 (STA. 5+188)  
D2 NTS



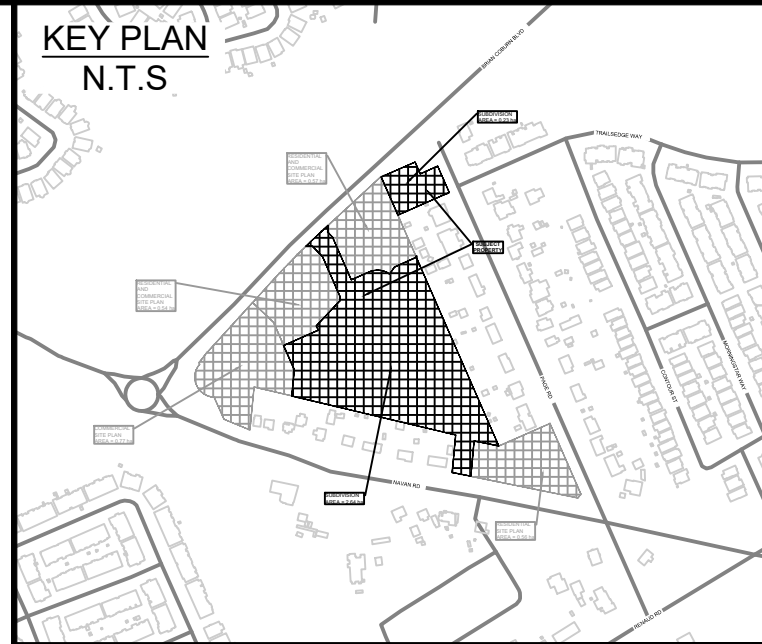
B NAVAN ROAD CROSS SECTION 1 (STA. 4+302)  
D2 NTS



C NAVAN ROAD CROSS SECTION 2 (STA. 4+474)  
D2 NTS



D NAVAN ROAD CROSS SECTION 3 (STA. 4+563)  
D2 NTS



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SCALE:

CLIENT:

CONSULTANT: www.jrichards.ca

CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT: EAST RIDGE ORLEANS SUBDIVISION  
2983, 3053, & 3079 NAVAN ROAD & 2690 PAGE ROAD OTTAWA, ONTARIO

DRAWING: DETAILS AND CROSS SECTIONS

DESIGN: TR  
DRAWN: KT  
CHECKED: KF  
JLR #: 29899-002

DRAWING #: D2

File Location: P:\2020\029899-002 - Navan Subdivision\05-Production\01-Civil\29899-002-C-DETAILS.dwg

PLOT DATE: September 20, 2024 3:53:35 PM  
CITY PLAN No. 18572 CITY FILE No. D07-16-21-0027