

CAUTION:
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CEDAR CRESCENT VILLAGE

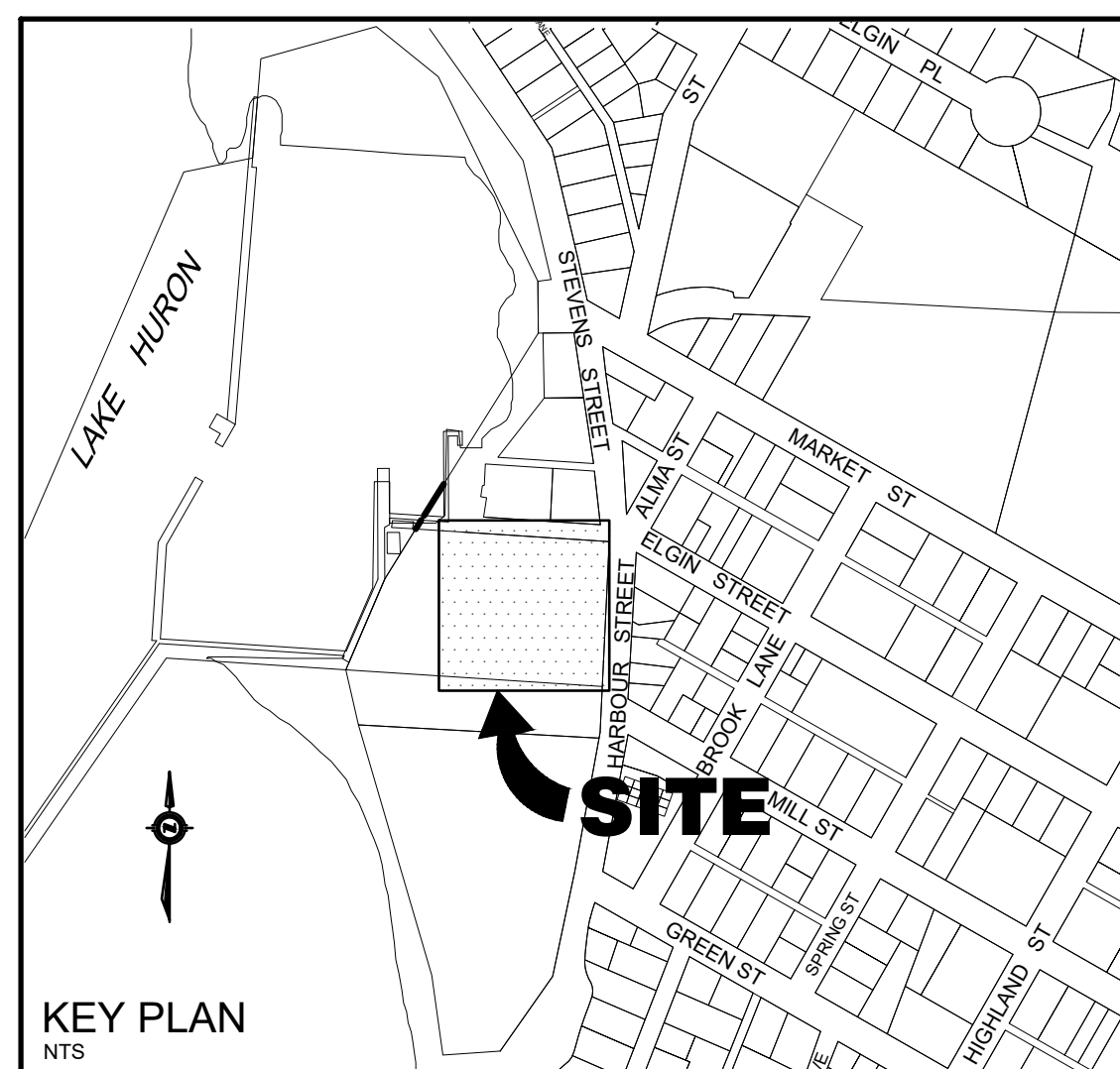
TOWN OF SAUGEEN SHORES

CONTRACT NO. 21-01867-01

OWNER :
 CEDAR CRESCENT VILLAGE

index

SHEET No.	DESCRIPTION
01867-SP1	EXISTING CONDITIONS & REMOVALS SITE PLAN
01867-SS1	SITE SERVICING PLAN
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01867-SEC1	SEDIMENTATION AND EROSION CONTROL PLAN
01867-DET1	ENGINEERING STANDARDS & MISCELLANEOUS DETAILS
01867-DET2	MISCELLANEOUS DETAILS



No.	DATE	DESCRIPTION	BY	APPD
7	DEC 9/22	EIGHTH SUBMISSION	TLB	SJC
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REVISION / ISSUE

Seal not valid unless signed and dated

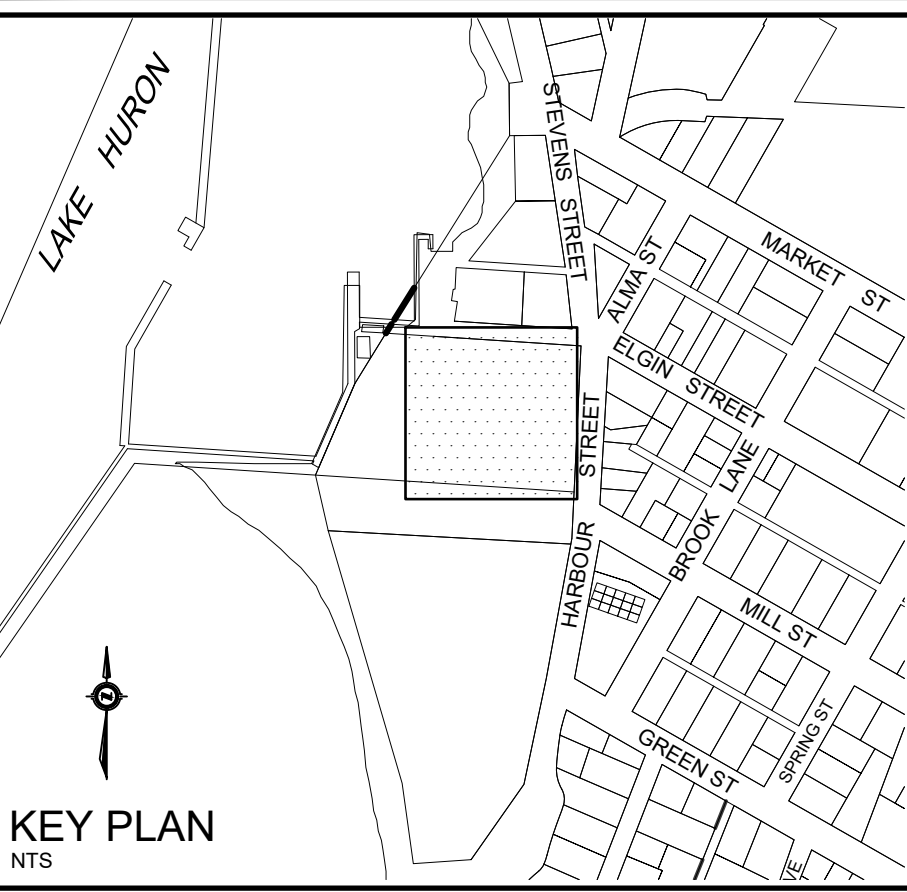


Title: CEDAR CRESCENT VILLAGE
 PROPOSED DEVELOPMENT
 PORT ELGIN BEACH
 Town of Saugeen Shores, Ont.
 TITLE SHEET

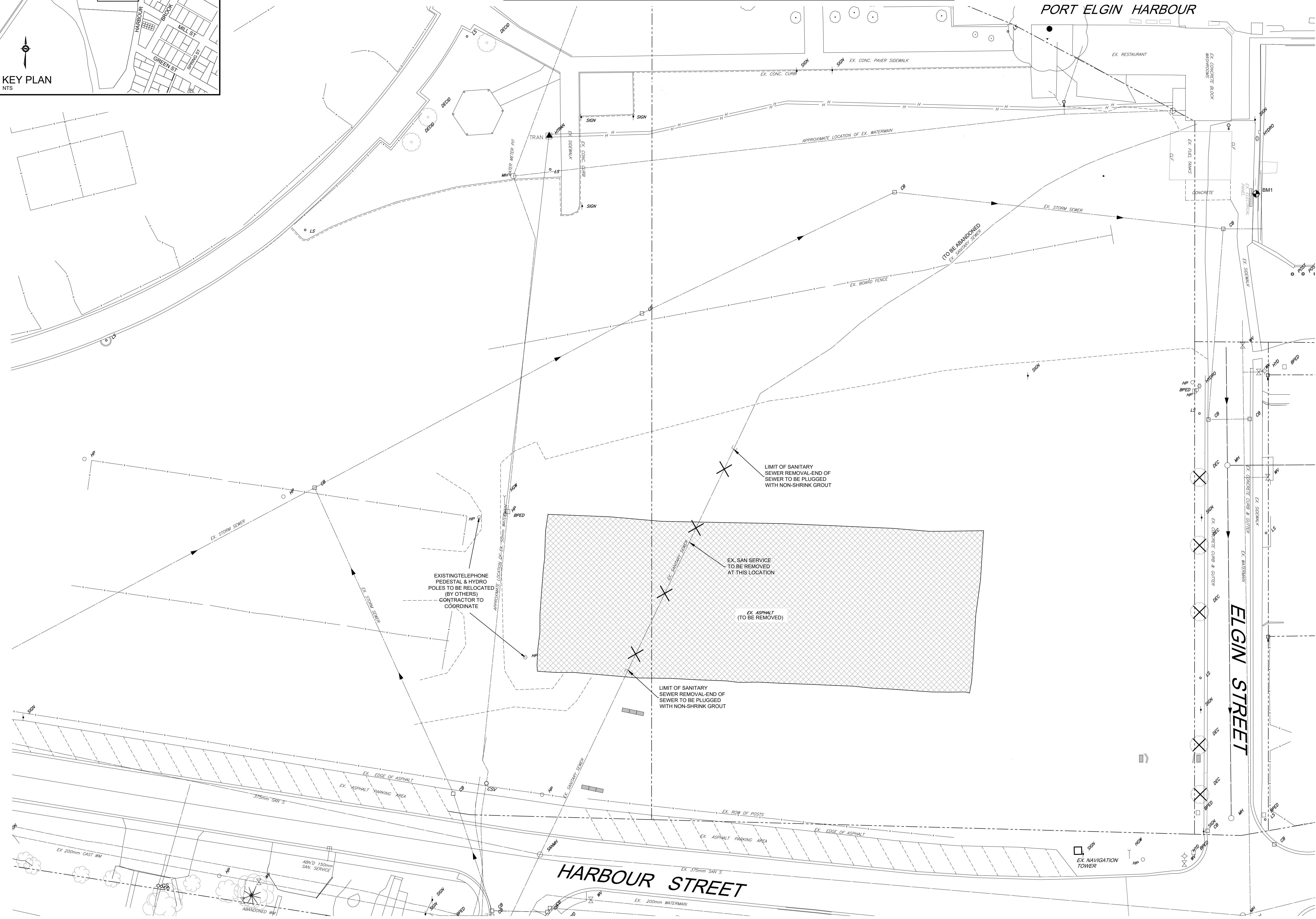
Client: G. M. DIEMERT ARCHITECTS LTD.

Design: TLB Scale:
 Drawn: JAF Approved:
 Checked: SJC
 Date: MAR 2021 Design Engineer

DRAWING No. 01867-TS



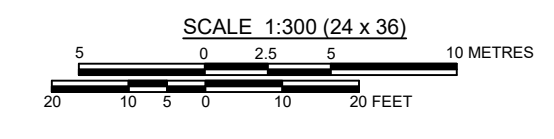
KEY PLAN
NTS



LEGEND	
---	PROPERTY LINES
---	EDGE OF EXISTING PAVEMENT
---	EDGE OF EXISTING GRAVEL
---	EXISTING STORM SEWER
---	EXISTING WATERMAIN
---	EXISTING SANITARY SEWER
○ SANMH	EXISTING SANITARY MANHOLE
○ STMMH	EXISTING STORM MANHOLE
□ CB	EXISTING CATCH BASIN
○ HYD	EXISTING FIRE HYDRANT
○ W/V	EXISTING GATE VALVE
○ CSV	EXISTING CURB STOP VALVE
---	APPROXIMATE LOCATION EXISTING UNDERGROUND BELL TELEPHONE CABLE
---	APPROXIMATE LOCATION EXISTING UNDERGROUND GAS LINE
---	APPROXIMATE LOCATION EXISTING UNDERGROUND WIGHTMAN TELECOM CABLE
---	EXISTING HYDRO GUY WIRE
○ HP	EXISTING HYDRO POLE
○ CATV	EXISTING CABLE TV PEDESTAL
□ BPEZ	EXISTING TELEPHONE PEDESTAL
□ SRP	STANDARD IRON BAR
■ IRB	IRON BAR
○ DEC .25	EXISTING DECIDUOUS TREE AND DIAMETER
○ CONIF .25	EXISTING CONIFEROUS TREE AND DIAMETER
○ EXG	EXISTING GAS MARKER
○ BM	BENCHMARK
✕	PROPOSED REMOVAL
▨	PROPOSED REMOVAL

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- Notes
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Benchmark Information

BM1
O.M.N.R.F. TABLET 0011928U66R IN CONCRETE RETAINING WALL ON WHARF.
ELEVATION 177.859m (CGVD28:78)

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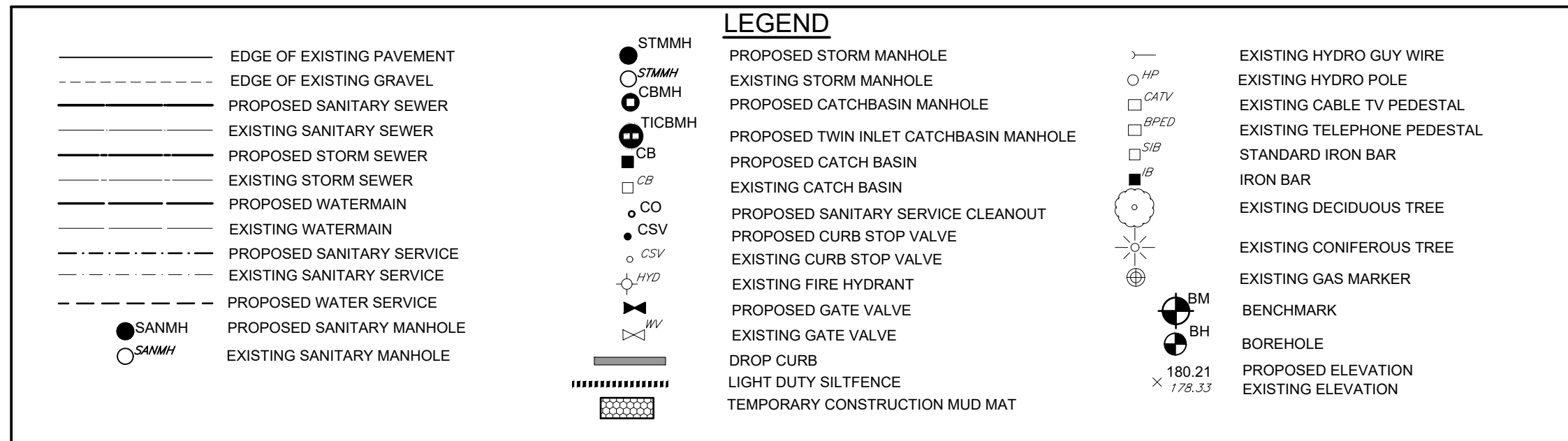
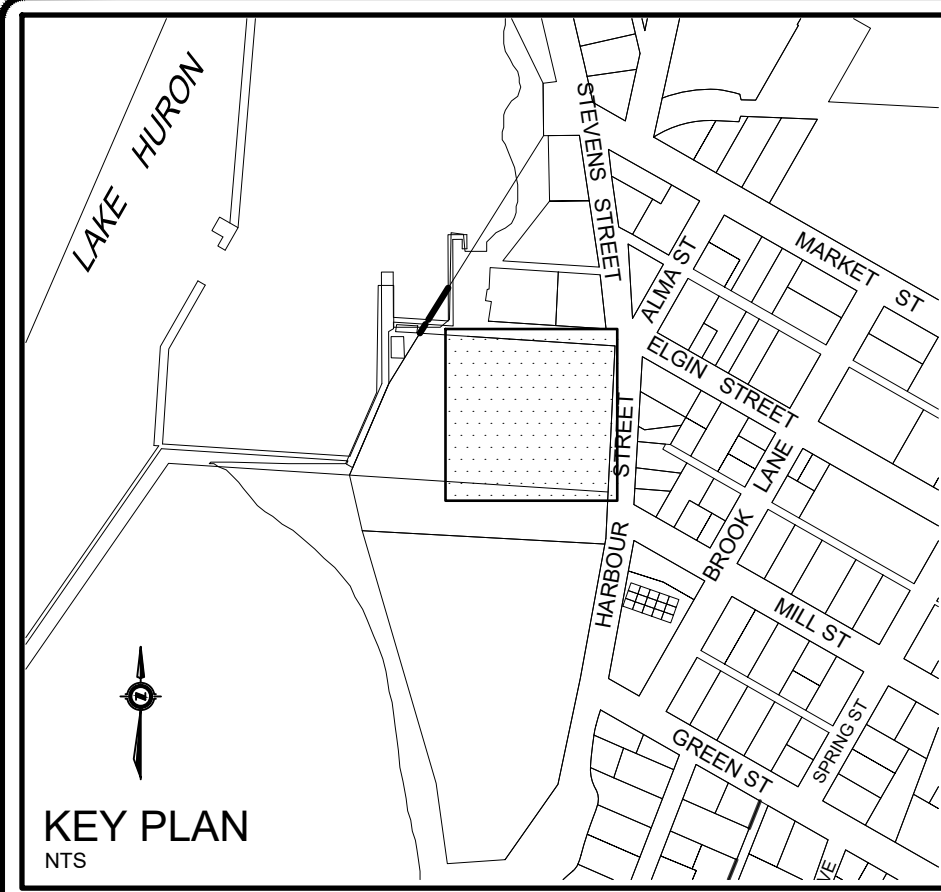
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title: CEDAR CRESCENT VILLAGE PROPOSED DEVELOPMENT PORT ELGIN BEACH Town of Saugeen Shores, Ont. EXISTING CONDITIONS & REMOVALS SITE PLAN

Client: G. M. DIEMERT ARCHITECTS LTD.

Design: LFP	Scale: 1:300
Drawn: LFP	Approved:
Checked: SJC	
Date: MAR 2021	Design Engineer
DRAWING No. 01867-SP1	

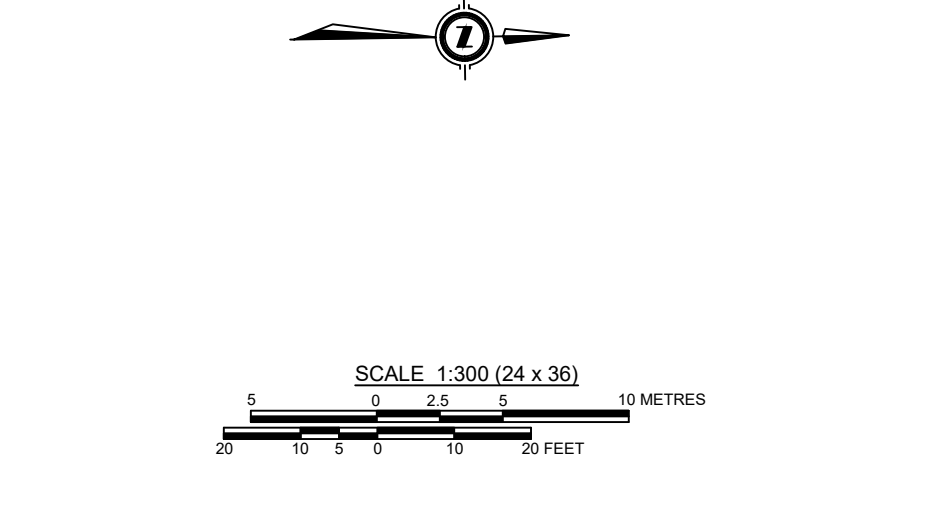
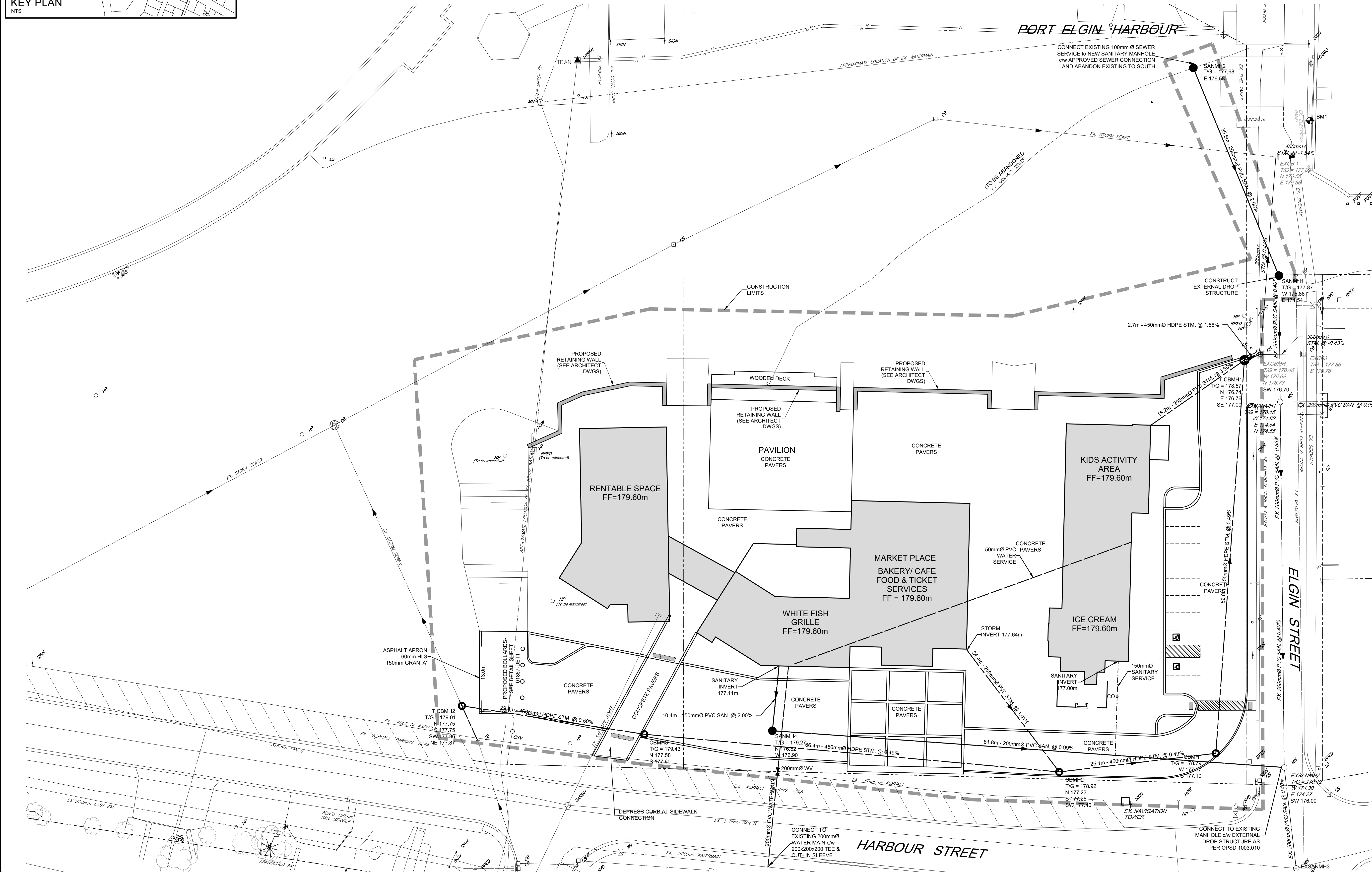
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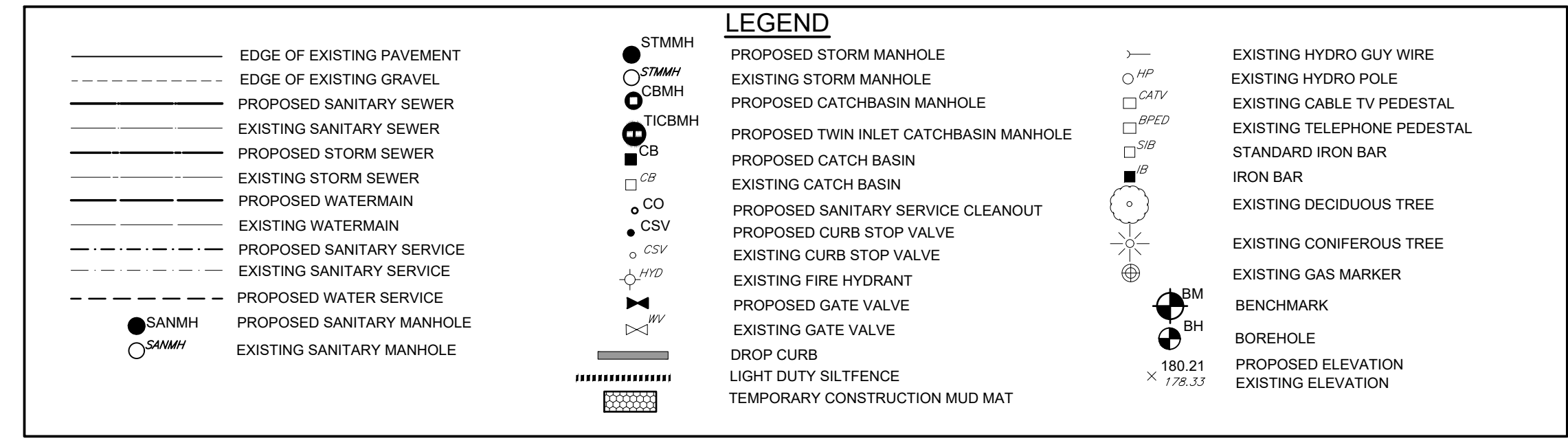
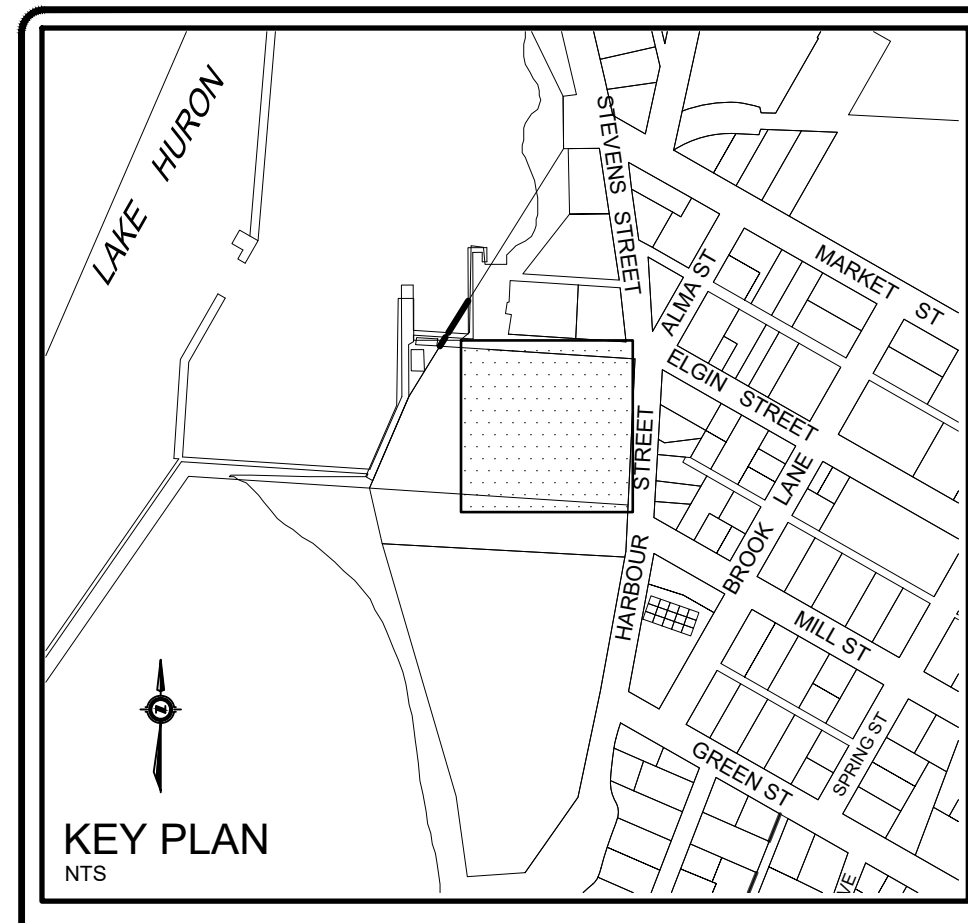
Project: CEDAR CRESCENT VILLAGE PROPOSED DEVELOPMENT PORT ELGIN BEACH Town of Saugeen Shores, Ont. SITE SERVICING PLAN

Client: G. M. DIEMERT ARCHITECTS LTD.

Design: TLB	Scale: 1:300
Drawn: JAF	Approved:
Checked: SJC	
Date: MAR 2021	Design Engineer

DRAWING No. 01867-SS1

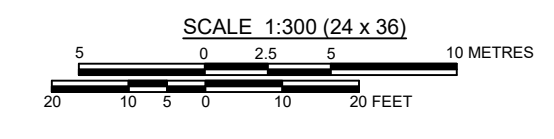
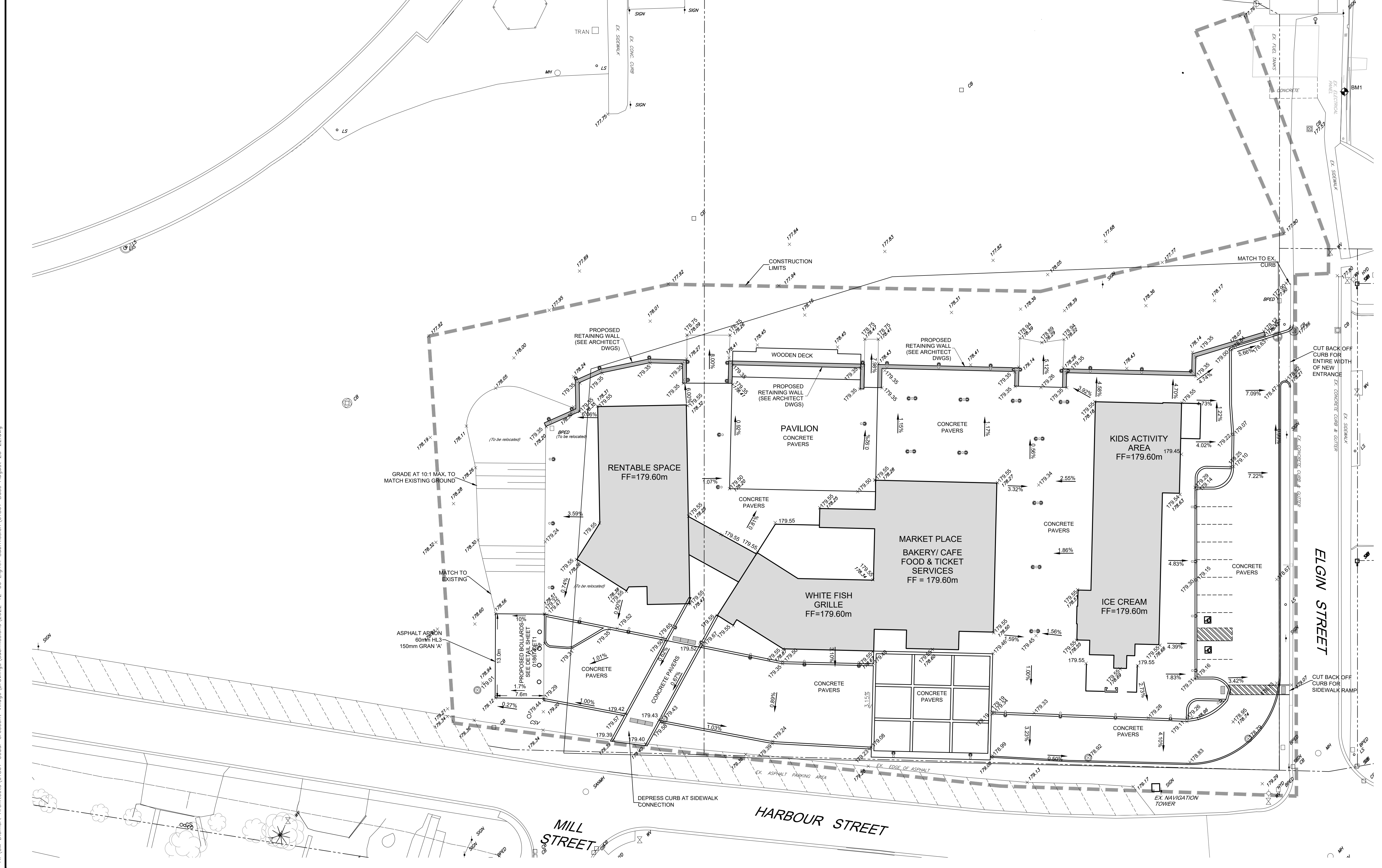
H: G.M. Diemert Architects\Drawings\Submissions\2022-12-06 Eighth Submission\01867 Base August 23-22.dwg



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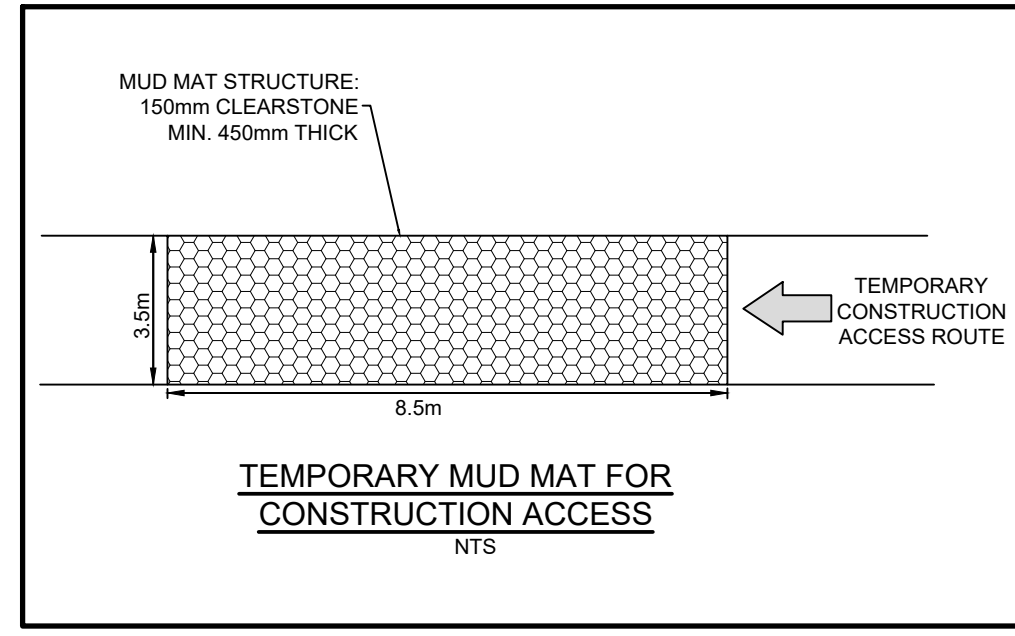
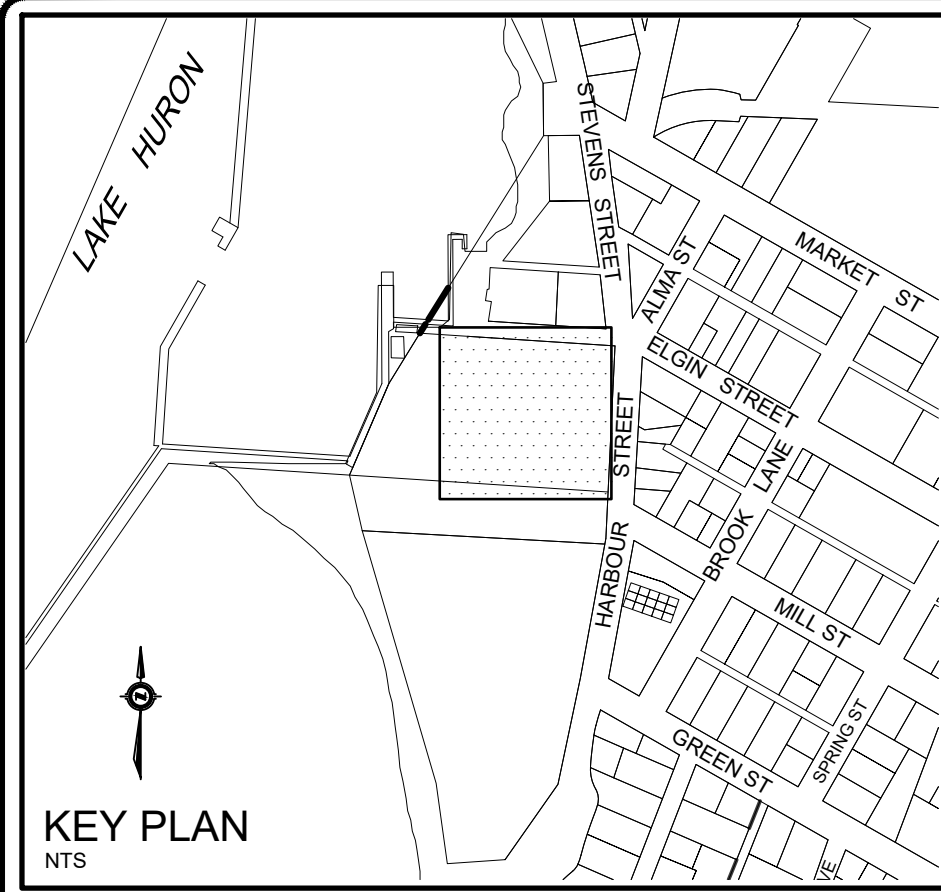
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Telephone: (519) 506-5959
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Design: LFP Scale: 1:300
Drawn: JAF Approved:
Checked: SJC
Date: MAR 2021 Design Engineer

DRAWING No. 01867-SG1

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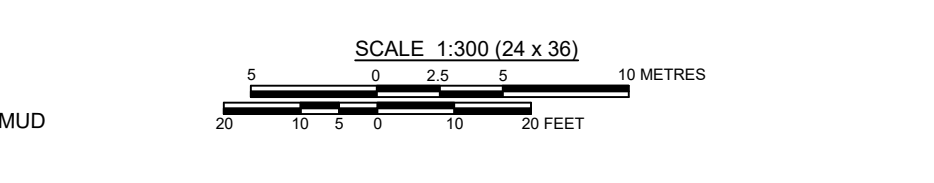
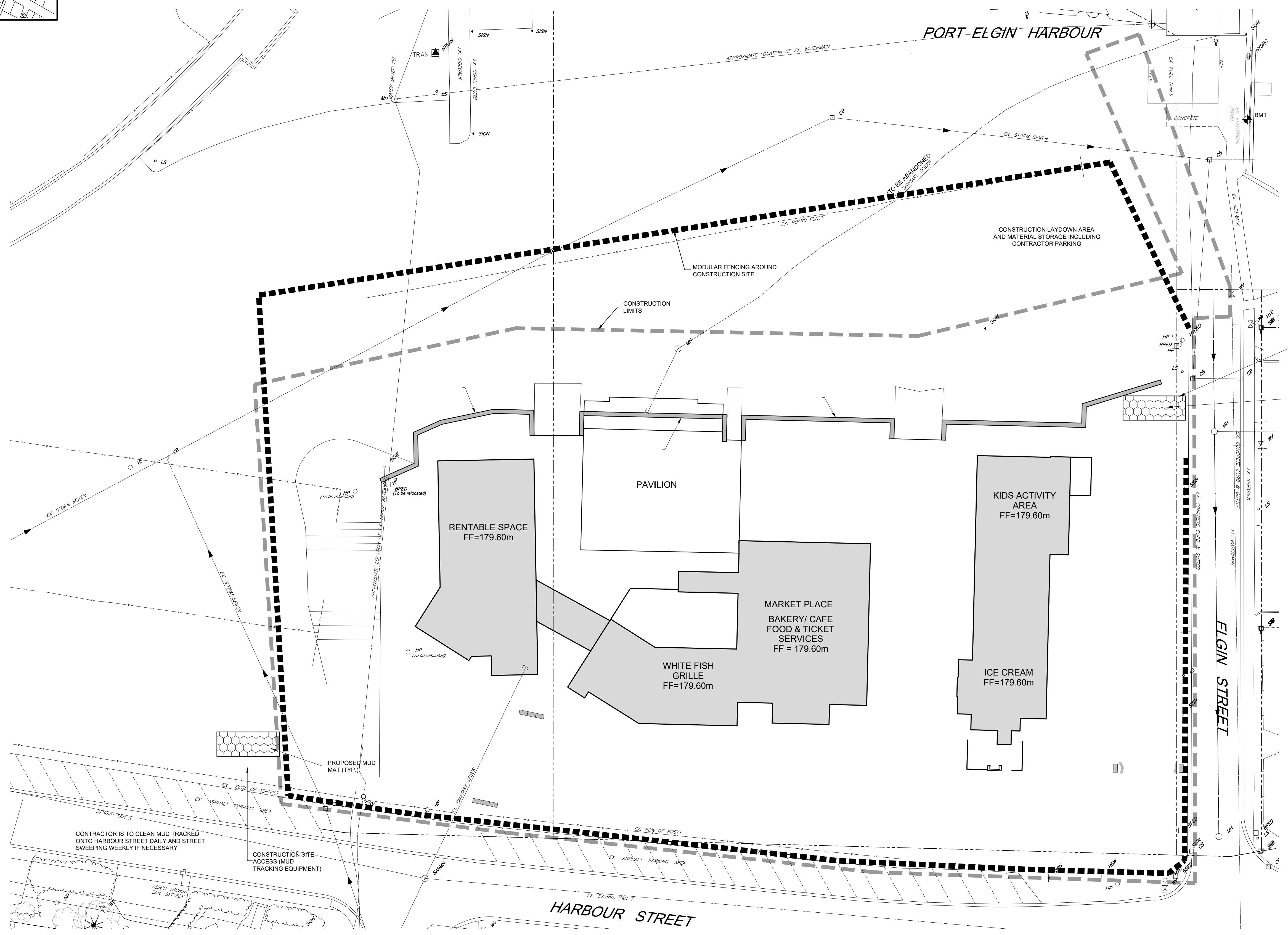
LEGEND

---	SUBDIVISION BOUNDARY	○ CBMH	PROPOSED CATCHBASIN MANHOLE	—○—	EXISTING HYDRO GUY WIRE
- - -	PROPOSED RIGHT OF WAY	● TICBMH	PROPOSED TWIN INLET CATCHBASIN MANHOLE	—○—	EXISTING CABLE TV PEDESTAL
---	PROPOSED PROPERTY LINES	□ CB	PROPOSED CATCH BASIN	—○—	EXISTING TELEPHONE PEDESTAL
---	EDGE OF EXISTING PAVEMENT	□ DICB	EXISTING CATCH BASIN	—○—	STANDARD IRON BAR
---	PROPOSED SANITARY SEWER	○ CSV	PROPOSED DITCH INLET CATCHBASIN	○	EXISTING DECIDUOUS TREE
---	EXISTING SANITARY SEWER	○ CSV	PROPOSED SANITARY SERVICE CLEANOUT	○	EXISTING CONIFEROUS TREE
---	PROPOSED STORM SEWER	○ CSV	EXISTING SANITARY SERVICE CLEANOUT	○	EXISTING GAS MARKER
---	EXISTING STORM SEWER	○ CSV	PROPOSED CURB STOP VALVE	○	EXISTING WELL
---	PROPOSED SUBDRAIN	○ CSV	EXISTING CURB STOP VALVE	○	BENCHMARK
---	PROPOSED WATERMAIN	○ CSV	PROPOSED HYDRANT SET	○	BOREHOLE
---	EXISTING WATERMAIN	○ CSV	EXISTING FIRE HYDRANT	○	PROPOSED ELEVATION
---	PROPOSED SANITARY SERVICE	○ CSV	PROPOSED GATE VALVE	○	EXISTING ELEVATION
---	EXISTING SANITARY SERVICE	○ CSV	EXISTING GATE VALVE	○	DROP CURB
---	PROPOSED WATER SERVICE	○ CSV	PROPOSED CAP C/W THRUST BLOCK	○	LIGHT DUTY SILTFENCE
---	EXISTING WATER SERVICE	○ CSV	PROPOSED BLOWOFF	○	TEMPORARY CONSTRUCTION MUD MAT
---	PROPOSED STORM SERVICE	○ CSV	EXISTING UNDERGROUND TELEPHONE CABLE	---	
○ SANMH	PROPOSED SANITARY MANHOLE	---	EXISTING UNDERGROUND TV CABLE	---	
○ STMH	EXISTING SANITARY MANHOLE	---	EXISTING UNDERGROUND GAS LINE	---	
○ STMH	PROPOSED STORM MANHOLE	---	EXISTING UNDERGROUND HYDRO CABLE	---	
○ STMH	EXISTING STORM MANHOLE				

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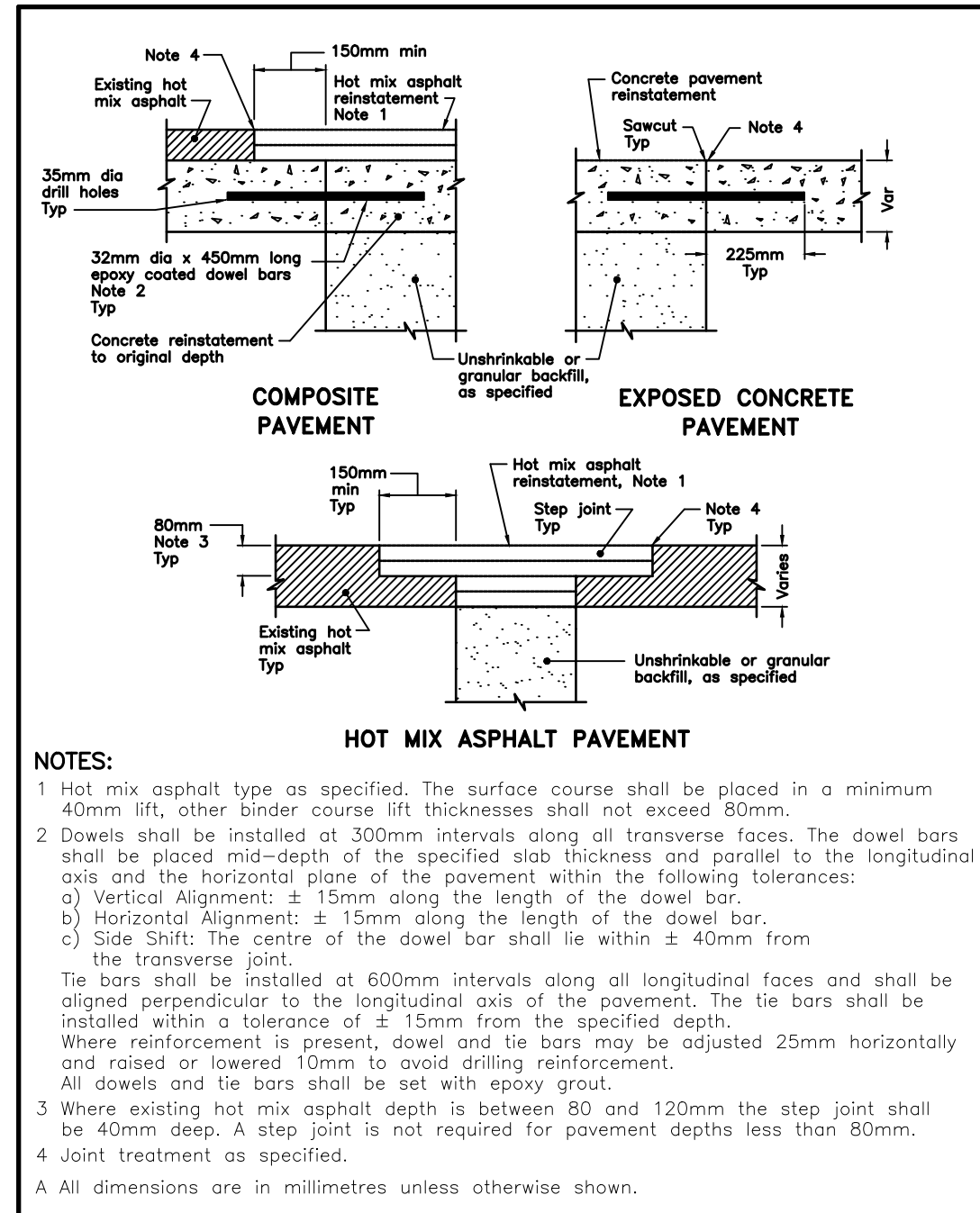
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Design: LFP	Scale: 1:300
Drawn: LFP	Approved:
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Date: MAR 2021	Design Engineer

DRAWING No. 01867-SEC1

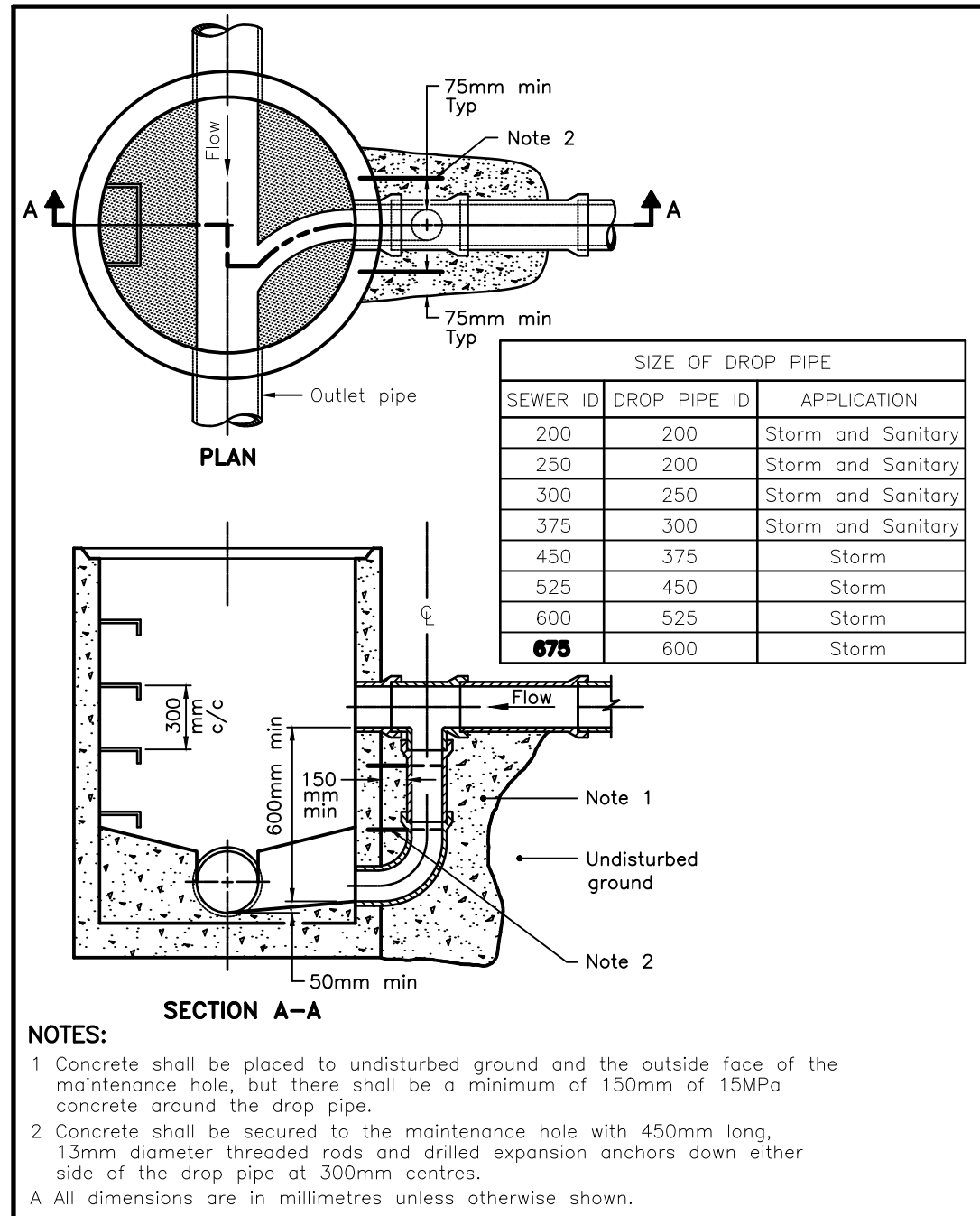
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ONTARIO PROVINCIAL STANDARD DRAWING Nov 2013 Rev 2

PAVEMENT REINSTATEMENT FOR UTILITY CUTS

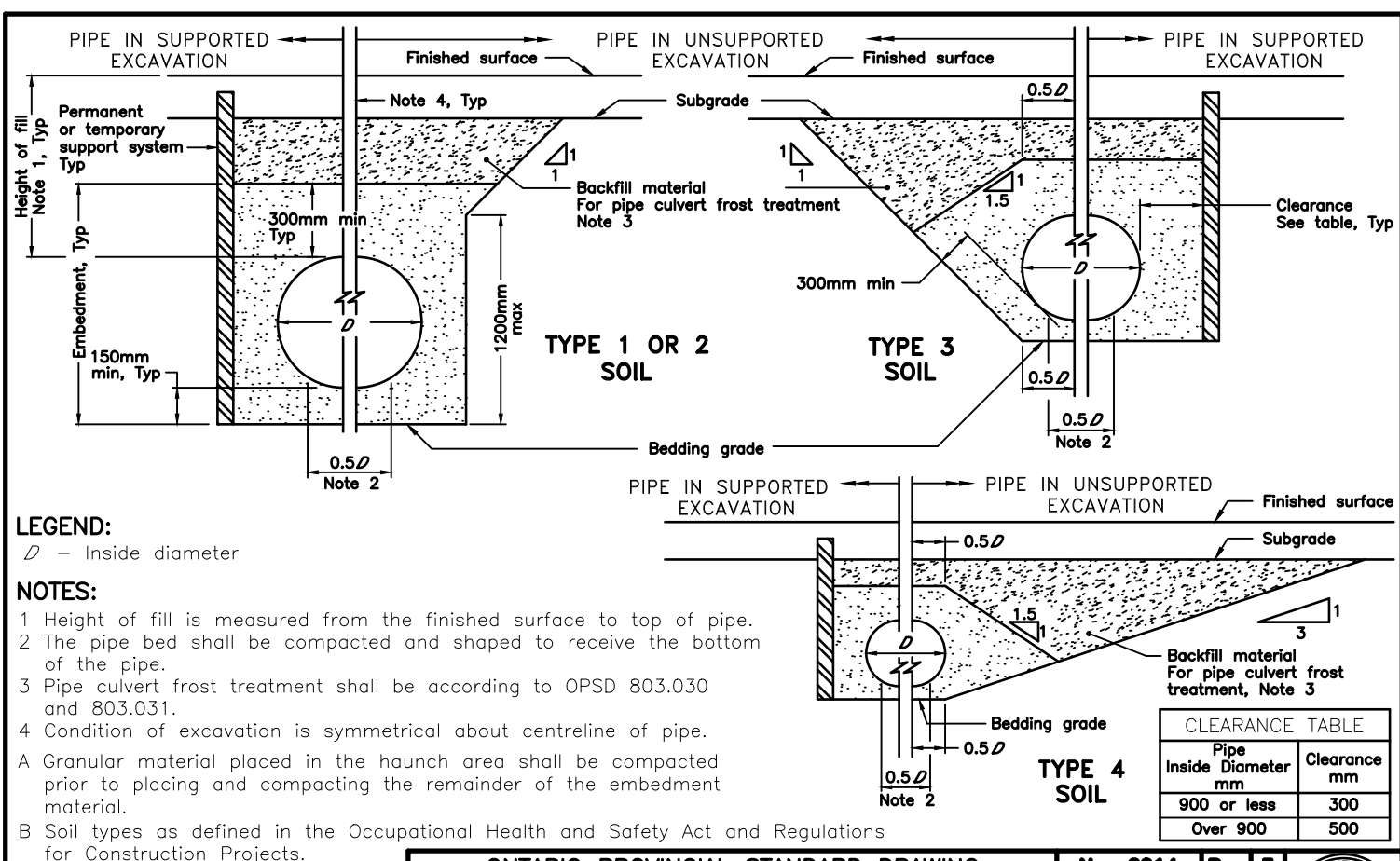
OPSD 509.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2010 Rev 3

CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE

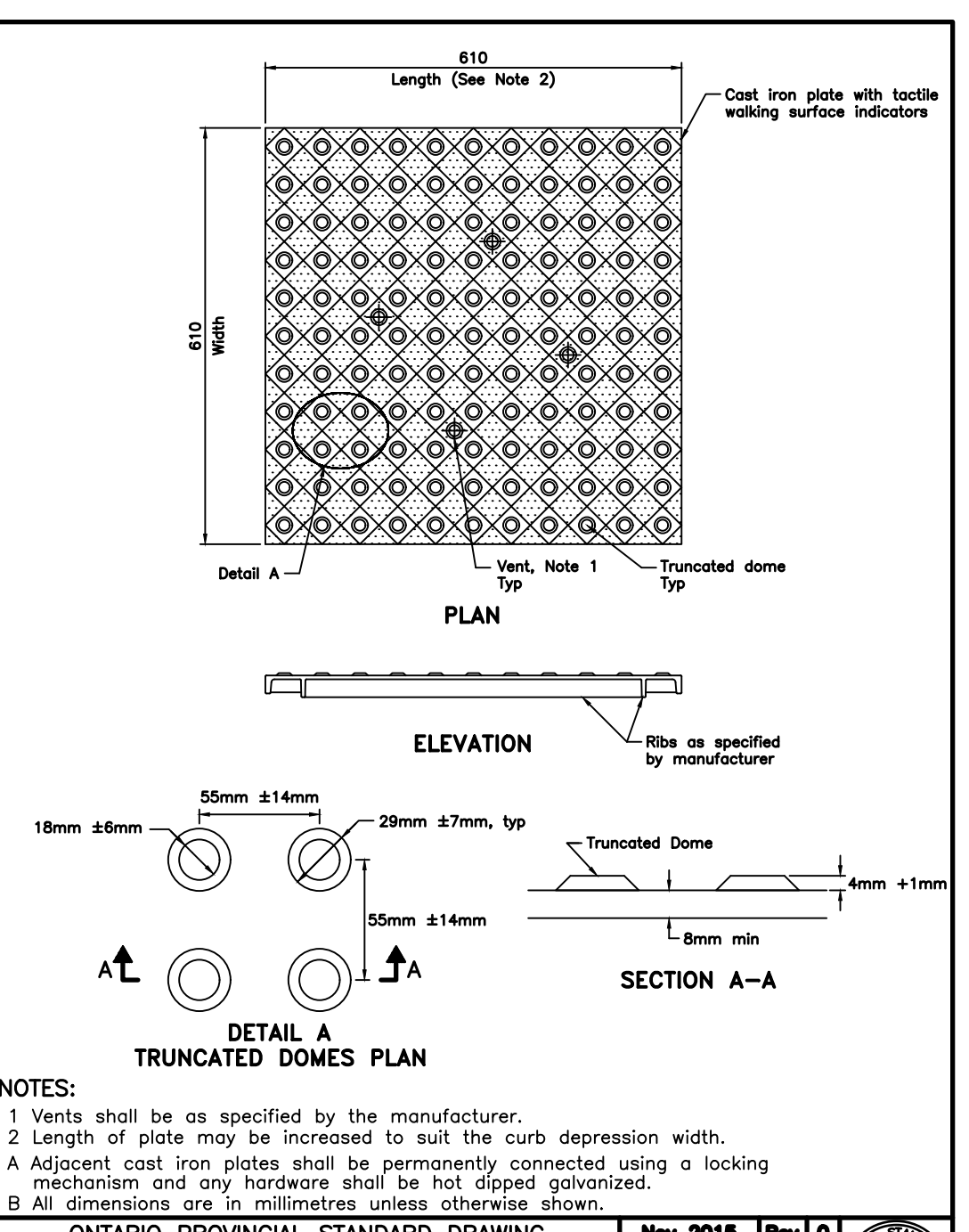
OPSD 1003.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3

FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION

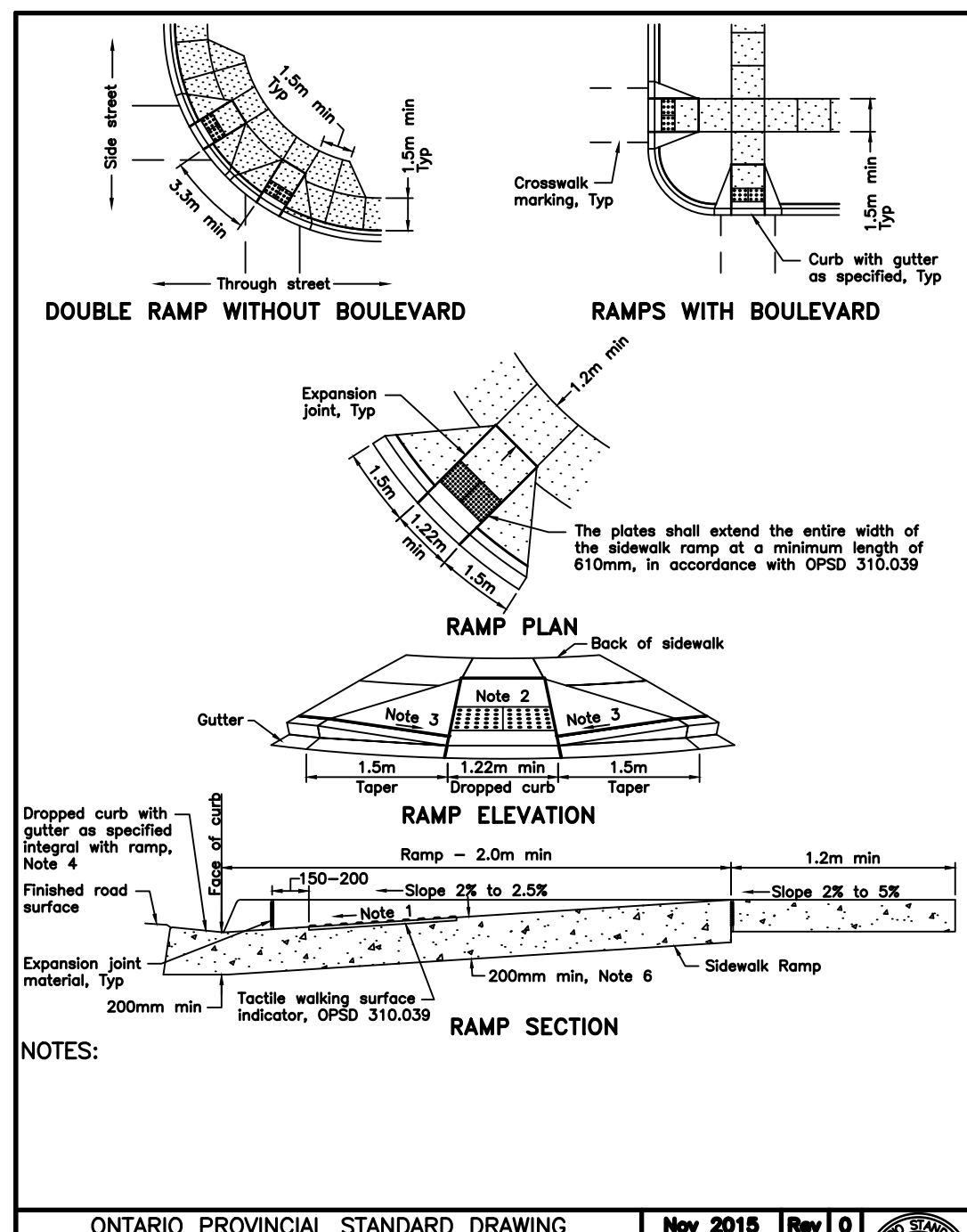
OPSD 802.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 0

CONCRETE SIDEWALK RAMPS TACTILE WALKING SURFACE INDICATORS COMPONENT

OPSD 310.039



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 0

CONCRETE SIDEWALK RAMPS AT UNSIGNALIZED INTERSECTIONS

OPSD 310.033

TOWN OF SAUGEEN SHORES ENGINEERING STANDARDS

GENERAL - CONSTRUCTION

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF SAUGEEN SHORES STANDARDS AND OPSS. WHERE CONFLICT OCCURS, TOWN STANDARDS GOVERN.
- DOWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION.
- ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- ALL MAINTENANCE HOLE FRAMES AND COVERS TO BE INITIALLY SET TO BASE COURSE HL4 ASPHALT ELEVATION AND ULTIMATELY RAISED BY ADDING SOLID ONE PIECE CAST IRON ADJUSTMENT RINGS PRIOR TO PLACING SURFACE COURSE HL3 ASPHALT.
- ALL EXISTING MAINTENANCE HOLES TO BE RAISED OR LOWERED TO PROPOSED GRADE. MAXIMUM ALLOWABLE HEIGHT OF ADJUSTMENT TO BE 300mm.
- ALL EXISTING HYDRANTS AND VALVES TO BE RAISED OR LOWERED TO PROPOSED GRADE.
- TRENCHES FOR UTILITIES TO BE MINIMUM 600mm WIDE BACKFILLED WITH APPROVED NATIVE MATERIAL AND COMPACTED ALL TO THE SATISFACTION OF THE LOCAL UTILITY.
- CONDUITS FOR ROAD CROSSINGS TO EXTEND 1.0m BEYOND CURB C/W PULL ROPES. INSTALL CONDUITS TO LOCAL STANDARDS.
- MAINTAIN A 150mm VERTICAL SEPARATION (MINIMUM) BETWEEN SEWERS AT CROSSINGS.
- CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND COORDINATE CONSTRUCTION ACCORDINGLY.
- TOPSOIL TO BE STRIPPED FROM SITE SHALL BE STOCKPILED AS DIRECTED BY ENGINEER.

ROADWAYS

- CONCRETE CURB AND GUTTER TO OPSS 600.040, 600.060 OR 600.100 AS INDICATED.
- CURB AND GUTTER TERMINATION TO OPSS 608.010.
- CURB AND GUTTER CONSTRUCTION SHALL CONFORM TO OPSS 353, NOV. 2006. STREET AND TRAFFIC SIGNS TO TOWN STANDARD TO BE UNISTRUC CANADA
- CONTRACTOR TO SUPPLY AND INSTALL LTD. TELSPAR YIELDING BREAKAWAY SYSTEM 3.75m x 50mm SQUARE METAL POLE OR APPROVED EQUIVALENT.
- SUBGRADE TO BE COMPACTED TO A MAXIMUM DRY DENSITY OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY (MDD). COMPACTION PER OPSS 501, NOV. 2005.
- GRANULAR 'A' AND 'B' MATERIALS TO BE COMPACTED TO 100% MDD, PER OPSS 501, NOV. 2005.
- BOULEVARD COMPACTION TO 95% OF MATERIAL'S MDD.
- ROADWAY SUBGRADE TO BE PROOF ROLLED IN PRESENCE OF GEOTECHNICAL ENGINEER.
- STANDARD ROAD BASE SHALL CONSIST OF 300mm GRANULAR 'B' AND 150mm GRANULAR 'A'.
- PAVEMENT ON NEW ROADS TO BE HOT MIX HL4 (50mm) BASE COURSE AND HL3 (40mm) PER OPSS 310, NOV. 2003.

SANITARY SEWERS AND SERVICES

- MAINTENANCE HOLES TO OPSS 1001.01 (1200mmØ)
- BENCHING TO OPSS 1004.01
- FRAMES AND COVERS TO BE OPSS 401.01 TYPE 'A', CLOSED COVER.
- SERVICE CONNECTIONS TO BE 125mm, TERMINATED AT THE PROPERTY LINE WITH A 125x125x100mm WYE C/W CAP, A 100mmØ RISER C/W 100mmØ LONG SWEEP CAPPED AT SURFACE. SEE TOWN STANDARDS DRAWING.
- SERVICE CONNECTIONS TO OPSS 1006.020 WITH SUITABLE NATIVE BEDDING OR GRANULAR 'A'. SEE TOWN STANDARD ON DWG. No. 308015-09.
- BEDDING FOR SEWER SHALL BE PER OPSS 1005.02. BEDDING MATERIAL FOR SANITARY SEWER AND SERVICES SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'A'.
- BACKFILL PER OPSS 803.04 USING APPROVED NATIVE BACKFILL.
- BACKFILL AND BEDDING MATERIAL TO BE COMPACTED PER OPSS 410 AND 514.
- TESTING TO OPSS 410, APRIL 2008.
- 200mm LONG 13mmØ SS 314 BOLTS WITH NUTS AND WASHERS TO BE INSTALLED IN MANHOLE COVERS LIFT HOLES.

SIZE OF DROP PIPE

SEWER ID	DROP PIPE ID	APPLICATION
200	200	Storm and Sanitary
250	200	Storm and Sanitary
300	250	Storm and Sanitary
375	300	Storm and Sanitary
450	375	Storm
525	450	Storm
600	525	Storm
675	600	Storm

TOWN OF SAUGEEN SHORES ENGINEERING STANDARDS

Watermain Pipe	
100mm Ø and larger	PVC DR18 (Class 150)
50mm Ø	PVC Series 160
Gate Valves	Mueller, mechanical joint, resilient seat, right hand closing
Valve Boxes	130mm Ø (5 1/2") cast iron or ductile iron slider type with a standard lower section and guide plate at manufactured by Bibby - St. Croix or approved equivalent
Hydrants	Canada Valve "Century", yellow with one standard 100 mm Storz quick connect fitting on the pumper port and two 63.5 mm (2 1/2") nozzles with CSA Standard thread. Left hand closing
Fittings	Tees, bends, reducers, sleeves, etc. Mechanical joint, cast iron or ductile iron
Saddles	Broad band, stainless steel, double bolt
Corporation Stops	Mueller H15008 or Ford F1000
Curb Stops	Mueller H15207 or Ford 244-333 (3/4") or Ford 244-444 (1")
Service Material	Type K Soft Copper, Rehau Muncipelex service line or IPEX SDR9 service line
Curb Boxes	Mueller A-728-7 for 1500 mm to 1800 mm cover
Curb Box Extension Rods	Stainless Steel to within 600 mm of surface
Tracer Wire	12 GA covered wire
Grip Rings	To be used at all mechanical joint fittings
Fasteners	Protecto caps and zinc sacrificial anodes on all mechanical joints
Test Station	50mm underground test station by Handley Industries

WATERMAIN AND WATER SERVICES

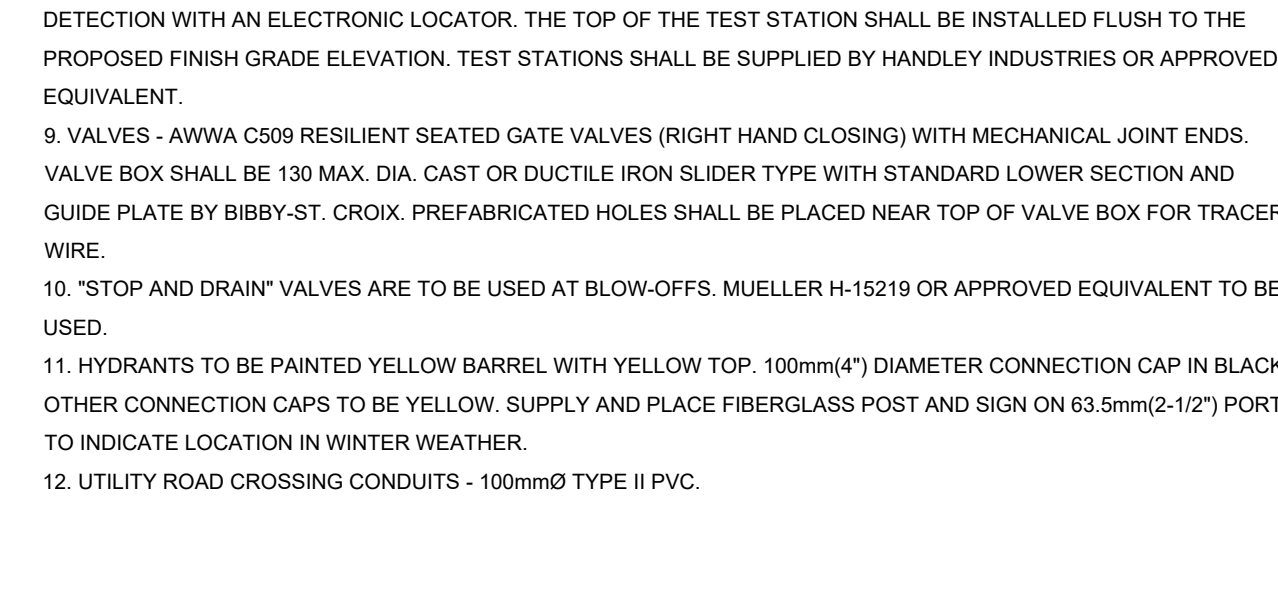
- THRUST BLOCKS PER OPSS 1103.010 AND 1103.020.
- SERVICE CONNECTIONS PER OPSS 1104.01.
- HYDRANT, INSTALLATION PER OPSS 1105.01 AND TO TOWN STANDARDS.
- USE APPROVED NATIVE MATERIAL OR GRANULAR 'A' BEDDING PER OPSS - 1102.02. BACKFILL TO BE APPROVED NATIVE MATERIAL PER OPSS 803.04.
- WATERMAIN, SERVICES, AND HYDRANTS TO BE INSTALLED PER OPSS 701, NOV. 2006.
- ALL PVC WATERMAIN TO HAVE TRACER WIRE BETWEEN HYDRANTS AND OTHER CONDUCTING APPURTENANCES.
- MINIMUM COVER TO BE 1.8m.

STORM SEWERS AND SERVICES

- MAINTENANCE HOLES TO OPSS 1001.01 (1200mmØ)
- BENCHING TO OPSS 1004.01
- FRAMES AND COVERS TO BE OPSS 401.01 TYPE 'A', CLOSED COVER.
- SERVICE CONNECTIONS TO BE 150mm, TERMINATED AT THE PROPERTY LINE WITH A 150mmØ RISER C/W 150mmØ LONG SWEEP CAPPED AT SURFACE. SEE TOWN STANDARD.
- SERVICE CONNECTIONS TO OPSS 1006.020 WITH SUITABLE NATIVE BEDDING OR GRANULAR 'A'.
- BEDDING FOR SEWER SHALL BE PER OPSS 1005.02. BEDDING MATERIAL FOR STM SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'A'.
- BACKFILL PER OPSS 803.04 USING APPROVED NATIVE BACKFILL.
- BACKFILL AND BEDDING MATERIAL TO BE COMPACTED PER OPSS 410 AND 514.

MATERIALS

- SANITARY SEWER - SDR35 PVC.
- SANITARY SERVICES - SDR28 PVC, 1250 USING TEE CONNECTIONS TO MAIN.
- STORM SEWER - PE (PS 320).
- ALL DRAINAGE PIT MATERIAL TO BE PERFORMED P.E. (PS 320) STORM SEWER.
- WATERMAIN - DR18 PVC INCLUDING 12 AWG TWU TRACER WIRE. ALL MECHANICAL JOINTS TO BE EQUIPPED WITH GRIP RINGS.
- WATERMAIN SERVICES - 20mmØ, REHAU MUNCIPEX, MAIN STOP MUELLER 15008, CURB STOP (MUELLER H 15209) C/W CURB BOX (MUELLER A-726). SERVICE SADDLES SHALL BE ROBAR S.S. -2616 DB.
- HYDRANTS - CENTURY WITH 2-63.5mm PORTS AND 100Ø STORTZ PUMPER PORT, OR AS APPROVED BY THE FIRE CHIEF OF TOWN OF SAUGEEN SHORES. MUELLER A2360-3 WEDGE STYLE GATE VALVE SHALL BE PLACED 1.0m FROM HYDRANT. EACH HYDRANT TO BE C/W 50mm DIA. UNDERGROUND TEST STATION PER TOWN STANDARDS.
- ALL HYDRANT INSTALLATIONS WILL ALSO INCLUDE A 50mm DIA. UNDERGROUND TEST STATION. THE TEST STATION WILL BE APPROX. 300mm BEHIND EACH HYDRANT AND COME COMPLETE WITH 2 TERMINALS ON THE TERMINAL BLOCK THAT IS FASTENED TO THE LID. THE LID SHALL HAVE A PERMANENT MAGNET AND/OR A METAL LID FOR EASY DETECTION WITH AN ELECTRONIC LOCATOR. THE TOP OF THE TEST STATION SHALL BE INSTALLED FLUSH TO THE PROPOSED FINISH GRADE ELEVATION. TEST STATIONS SHALL BE SUPPLIED BY HANDLEY INDUSTRIES OR APPROVED EQUIVALENT.
- VALVES - AWWA C509 RESILIENT SEATED GATE VALVES (RIGHT HAND CLOSING) WITH MECHANICAL JOINT ENDS. VALVE BOX SHALL BE 130 MAX. DIA. CAST OR DUCTILE IRON SLIDER TYPE WITH STANDARD LOWER SECTION AND GUIDE PLATE BY BIBBY-ST. CROIX. PREFABRICATED HOLES SHALL BE PLACED NEAR TOP OF VALVE BOX FOR TRACER WIRE.
- "STOP AND DRAIN" VALVES ARE TO BE USED AT BLOW-OFFS. MUELLER H-15219 OR APPROVED EQUIVALENT TO BE USED.
- HYDRANTS TO BE PAINTED YELLOW BARREL WITH YELLOW TOP. 100mm(4") DIAMETER CONNECTION CAP IN BLACK. OTHER CONNECTION CAPS TO BE YELLOW. SUPPLY AND PLACE FIBERGLASS POST AND SIGN ON 63.5mm(2-1/2") PORT TO INDICATE LOCATION IN WINTER WEATHER.
- UTILITY ROAD CROSSING CONDUITS - 100mmØ TYPE II PVC.



CAUTION:
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- Notes**
- TOPOGRAPHIC INFORMATION DERIVED FROM TOPOGRAPHIC PLAN PROVIDED BY TOWN OF SAUGEEN SHORES AND TOPOGRAPHIC SURVEY BY HEWETT & MILNE LTD. COMPLETED IN OCTOBER 2019.
 - PROPOSED DEVELOPMENT DETAILS DERIVED FROM INFORMATION SHOWN ON PLAN BY G.M. DIEMERT ARCHITECTS LTD.
 - SANITARY SEWER TO BE PVC SDR 35.
 - ALL STORM CATCHBASINS AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP AS PER THE APPLICABLE OPSS.
 - STORM SEWERS 900mmØ AND SMALLER TO BE PERFORATED HDPE IN 50mmØ WASHED CLEAR STONE WRAPPED IN NON-WOVEN GEOTEXTILE EXCEPT 3m ENTERING AND EXITING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL SHEET 01867-DE11.
 - MAINTAIN 2.50m CLEARANCE BETWEEN STORM SEWER AND WATERMAIN.
 - ALL WATERMANS TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO SECTION ABOVE BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
 - THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL STAMPED ISSUED FOR CONSTRUCTION.
 - ALL CONSTRUCTION TO BE COMPLETED TO TOWN OF SAUGEEN SHORES ENGINEERING STANDARDS.

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0	NOV 30/21	FIRST SUBMISSION	TLB	SJC

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0	NOV 30/21	FIRST SUBMISSION	TLB	SJC

Seal not valid unless signed and dated

PROFESSIONAL ENGINEER
S. J. COBANE
12/18/2022

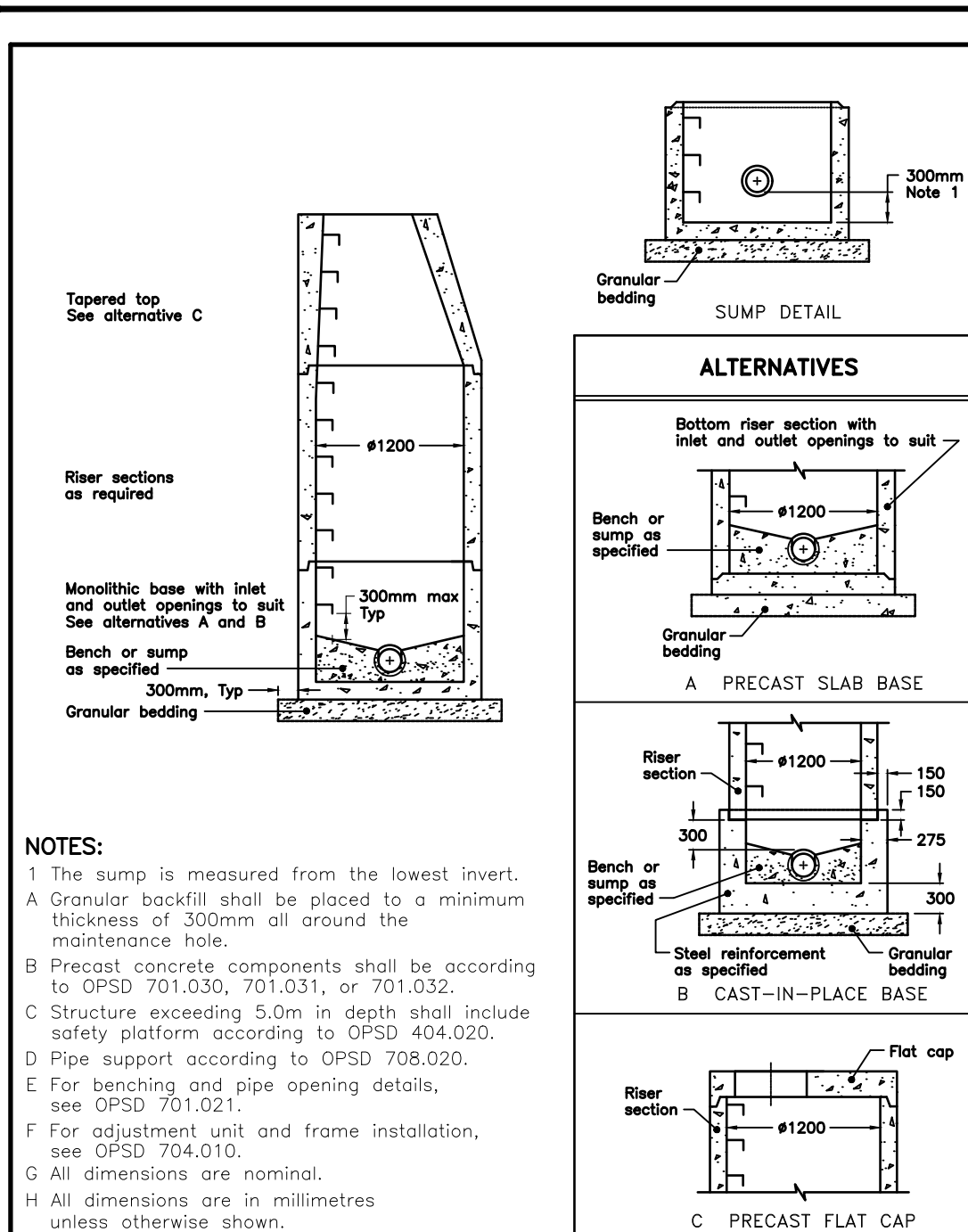


Title: **CEDAR CRESCENT VILLAGE PROPOSED DEVELOPMENT PORT ELGIN BEACH ENGINEERING STANDARDS & MISCELLANEOUS DETAILS**

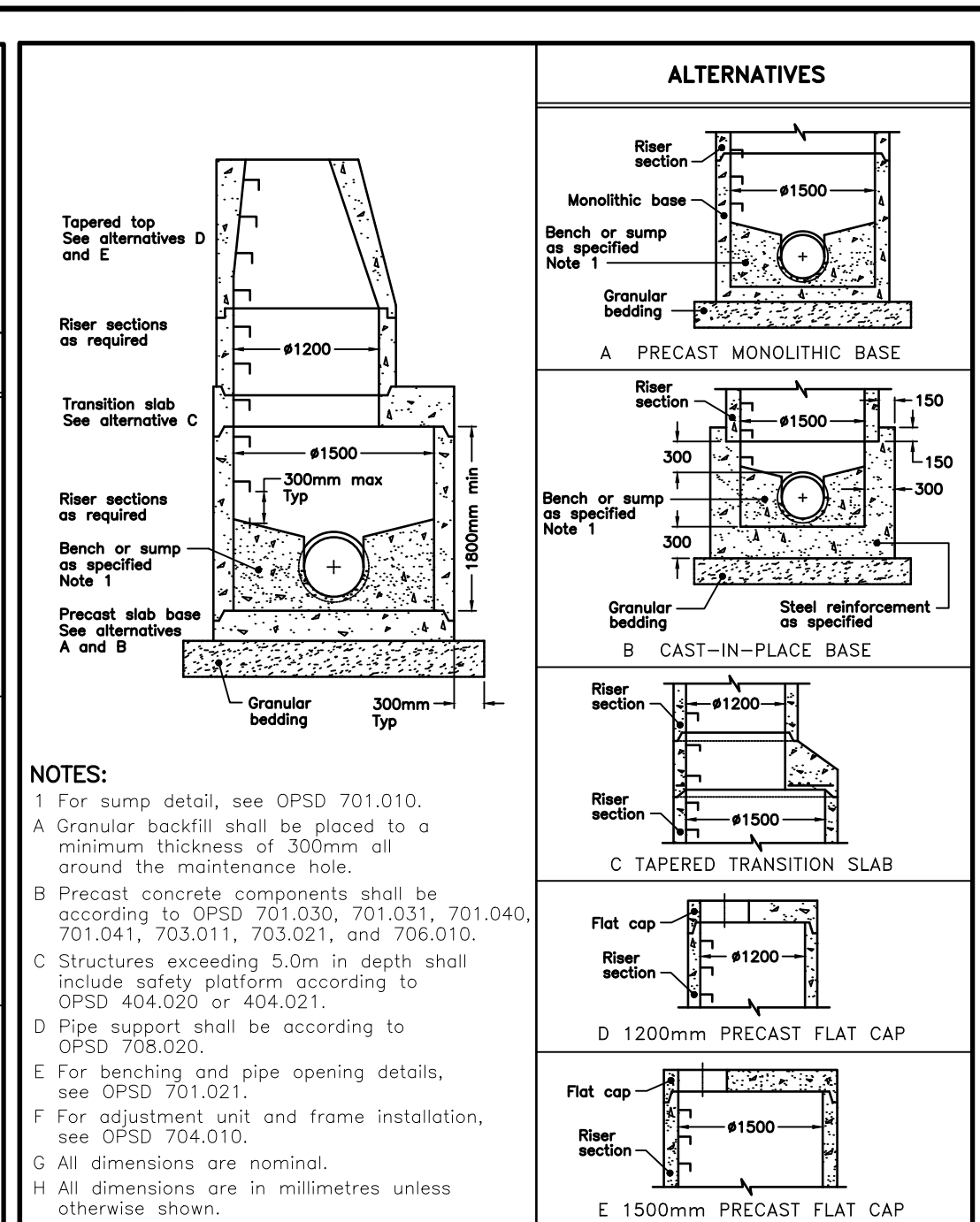
Client: **G. M. DIEMERT ARCHITECTS LTD.**

Design: LFP Scale: AS SHOWN
 Drawn: LFP Approved:
 Checked: SJC
 Date: NOV 2021 Design Engineer

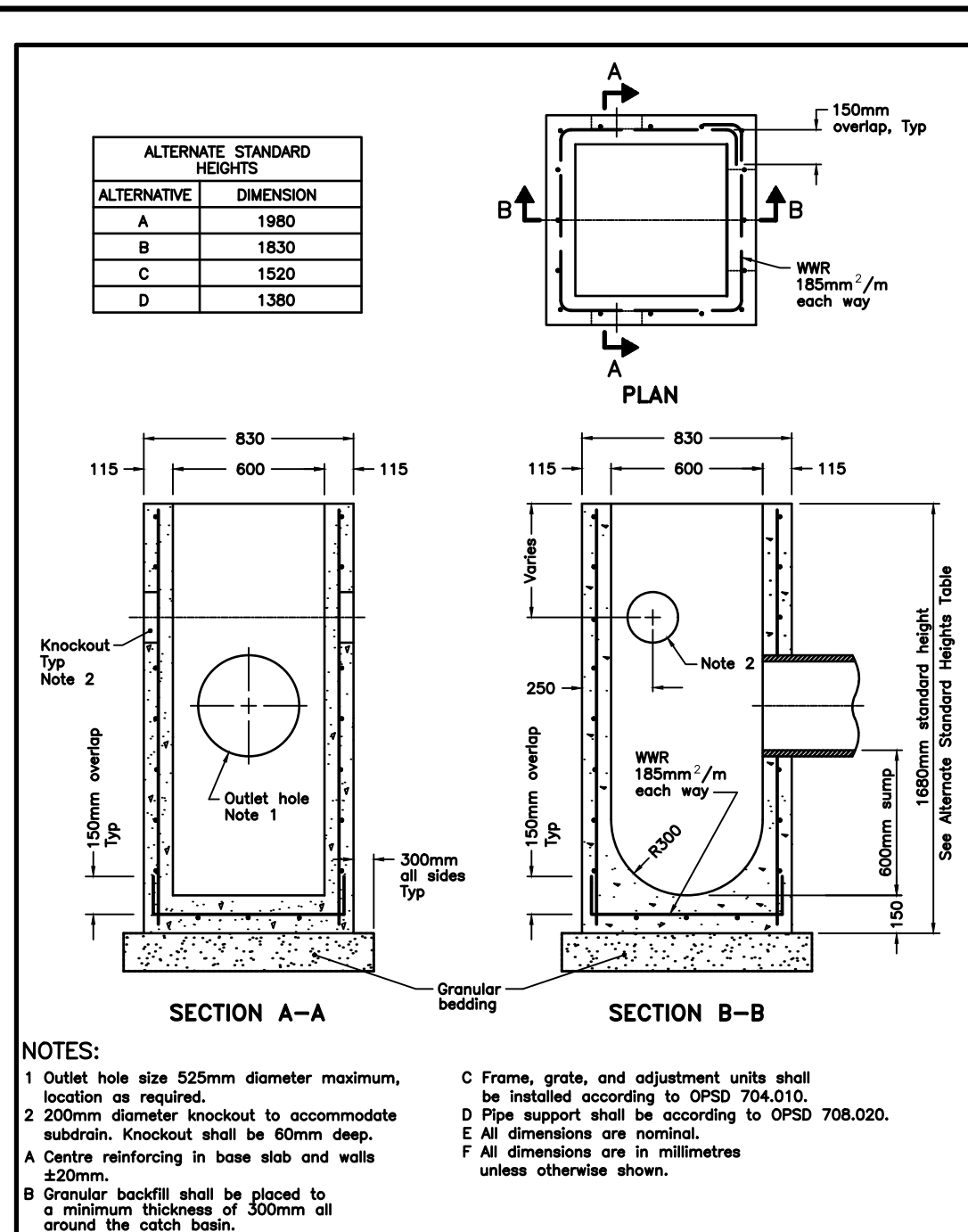
DRAWING No. 01867-DE11



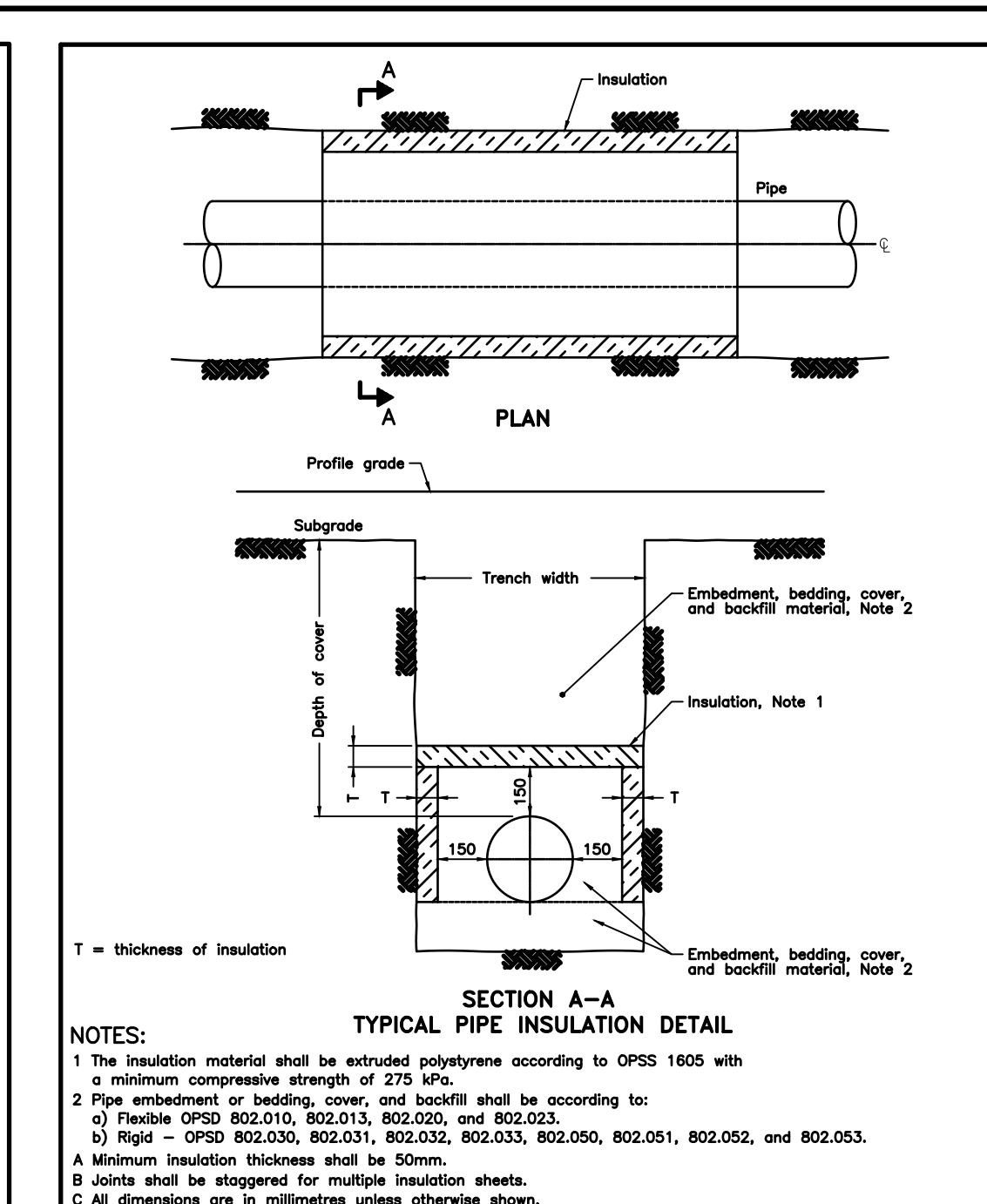
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5
PRECAST CONCRETE MAINTENANCE HOLE
 1200mm DIAMETER
 OPSD 701.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5
PRECAST CONCRETE MAINTENANCE HOLE
 1500mm DIAMETER
 OPSD 701.011



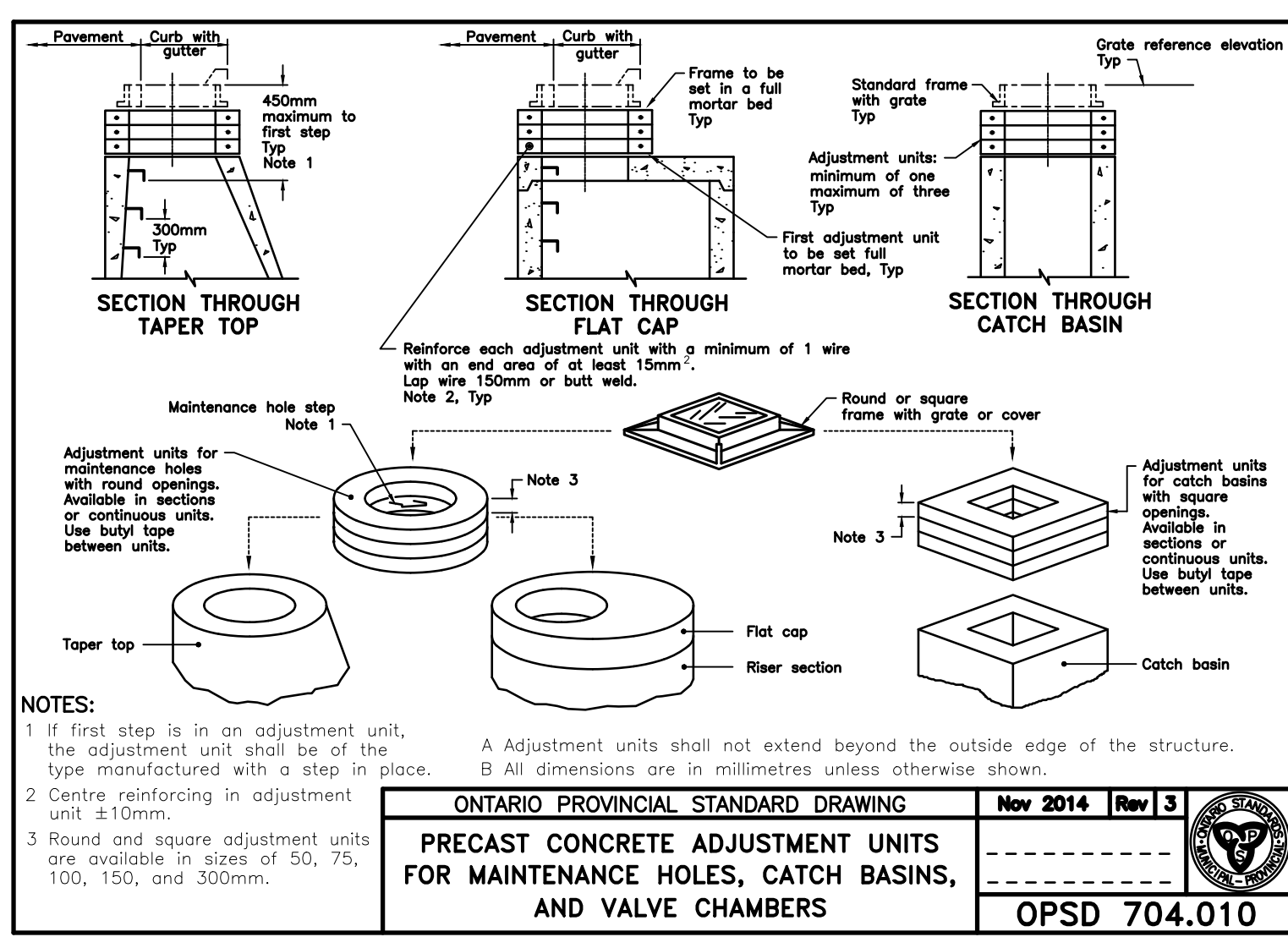
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
PRECAST CONCRETE CATCH BASIN
 600x600mm
 OPSD 705.010



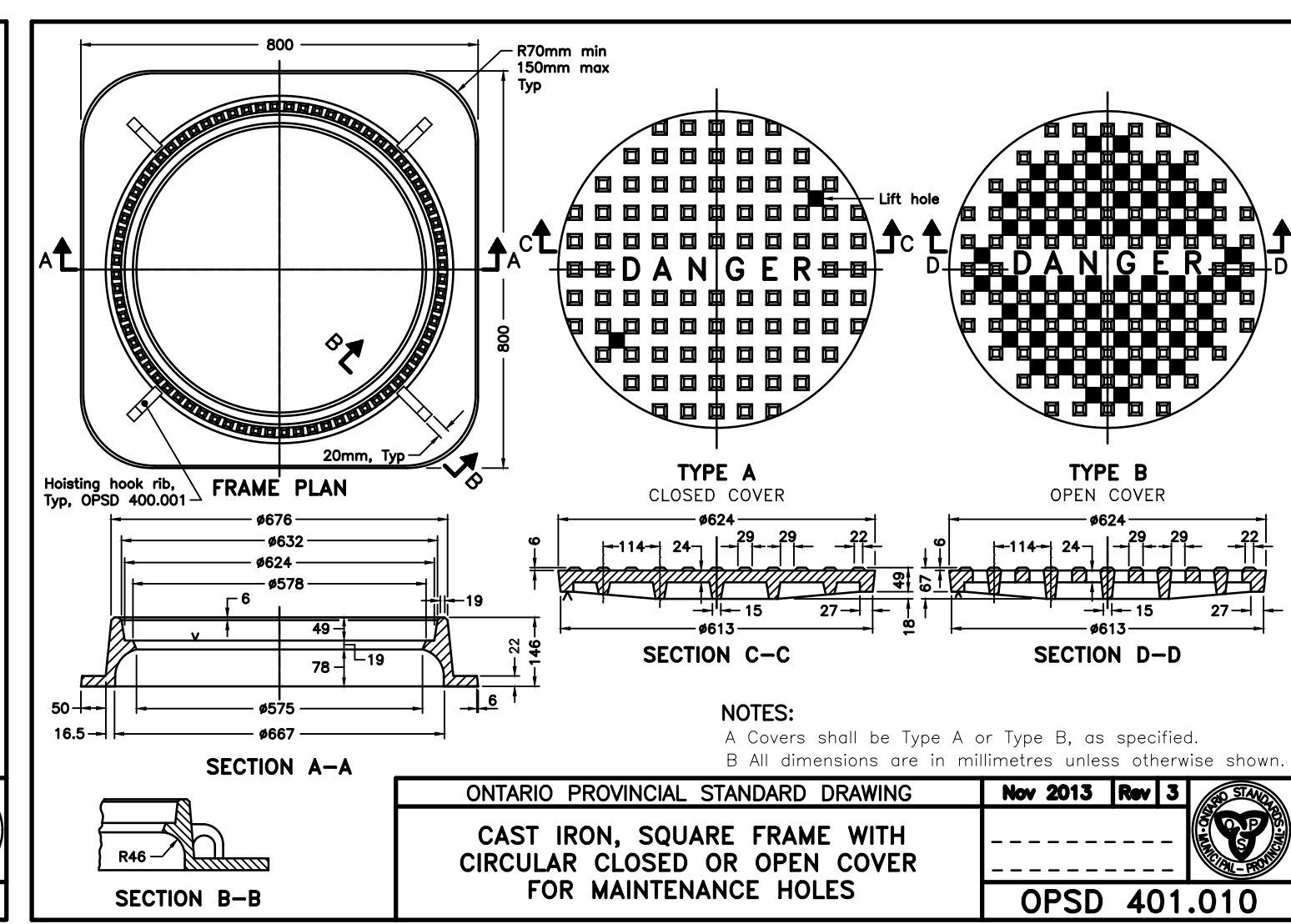
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 0
INSULATION FOR SEWERS AND WATERMAINS IN SHALLOW TRENCHES
 OPSD 1109.030

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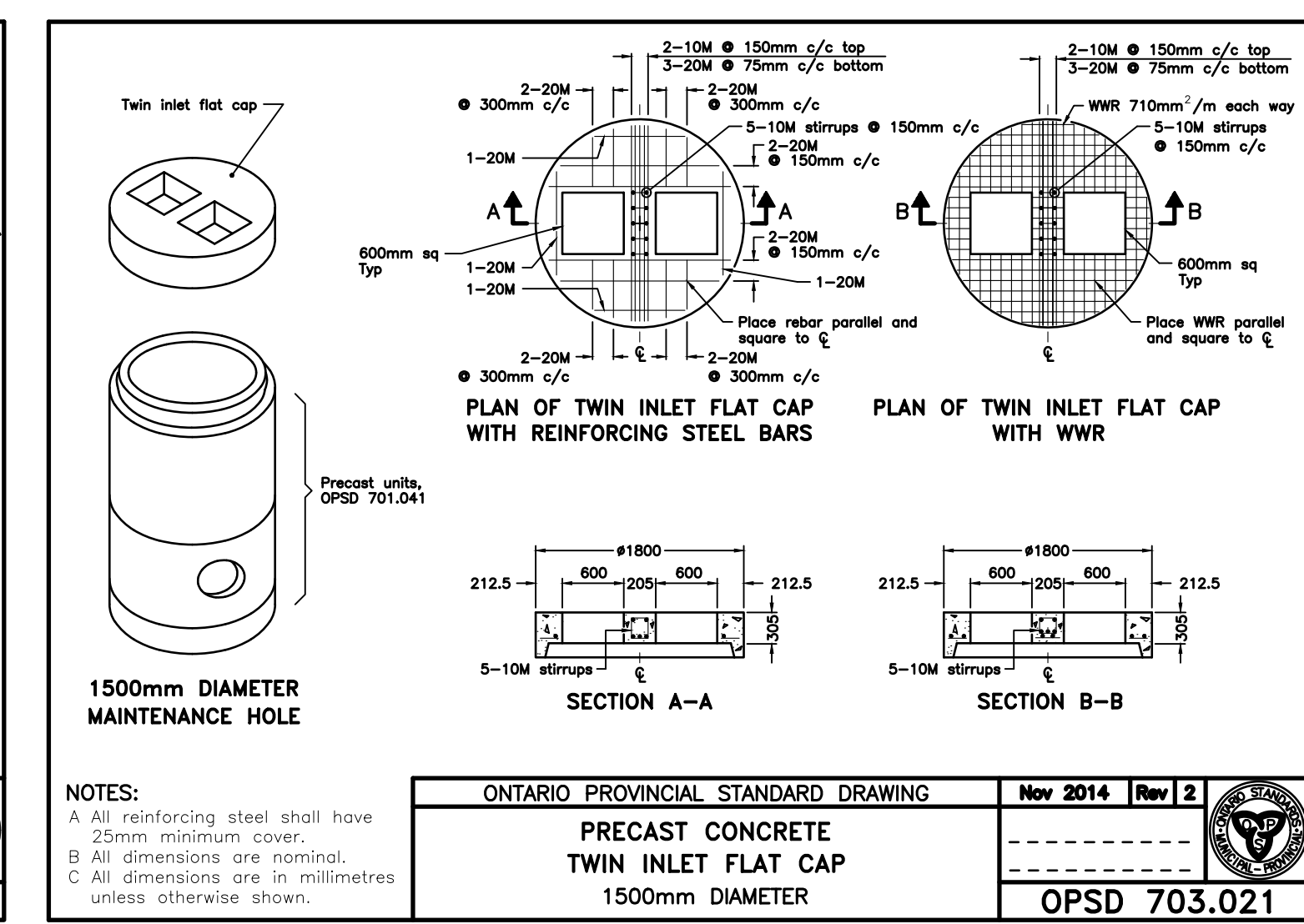
- Notes**
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 - PROPOSED DEVELOPMENT DETAILS DERIVED FROM INFORMATION SHOWN ON PLAN BY G.M. DIEMERT ARCHITECTS LTD.
 - SANITARY SEWER TO BE PVC SDR 35.
 - ALL STORM CATCHBASINS AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP AS PER THE APPLICABLE OPSD.
 - STORM SEWERS 900mm AND SMALLER TO BE PERFORMED HDPE IN 50mm WASHED CLEAR STONE WRAPPED IN NON-WOVEN GEOTEXTILE EXCEPT 3m ENTERING AND EXITING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL SHEET 01867-DET1.
 - MAINTAIN 2.50m CLEARANCE BETWEEN STORM SEWER AND WATERMAIN.
 - ALL WATERMAINS TO BE PVC DR18.
 - ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO SECTION ABOVE BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
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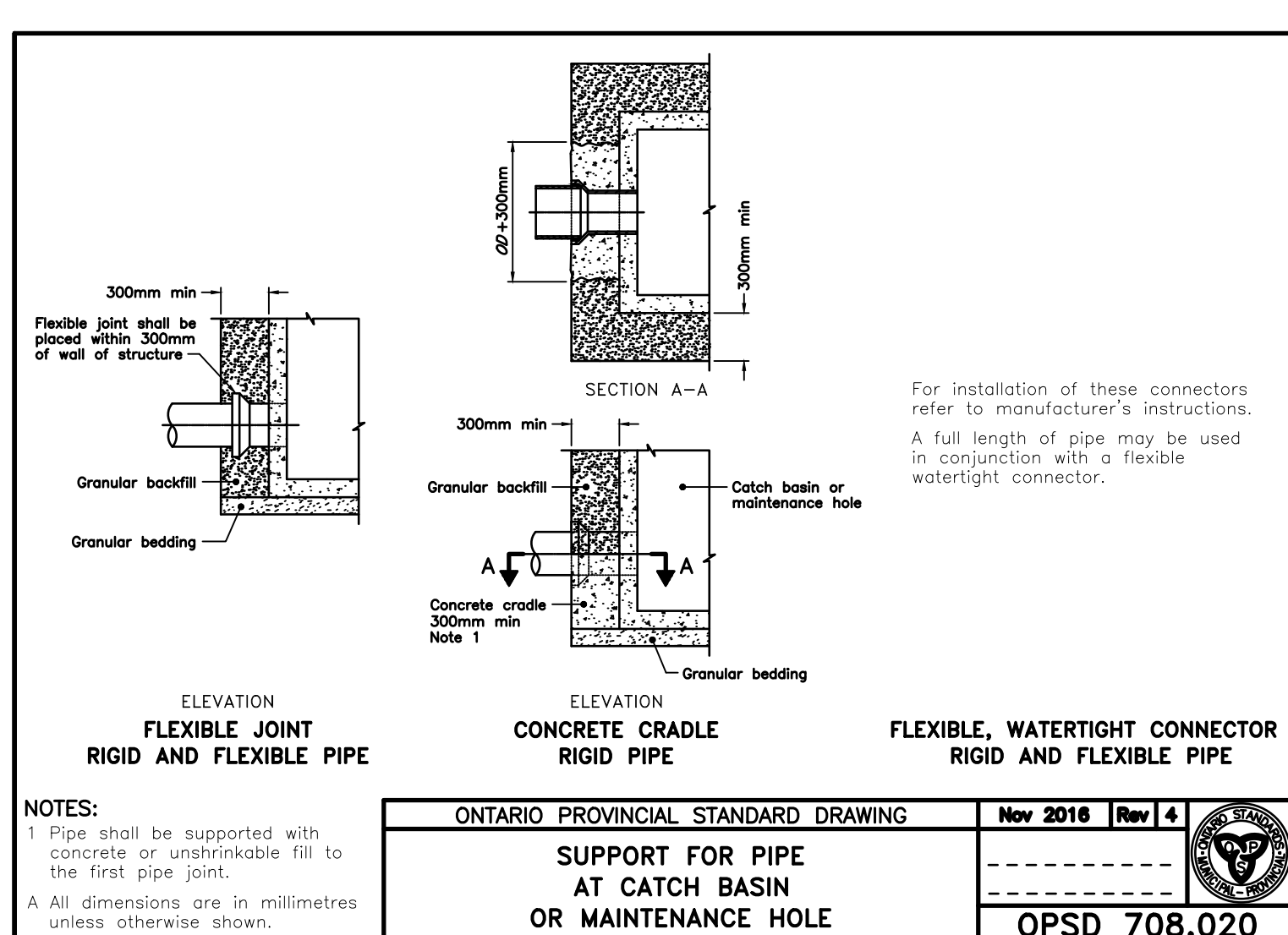
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS
 OPSD 704.010



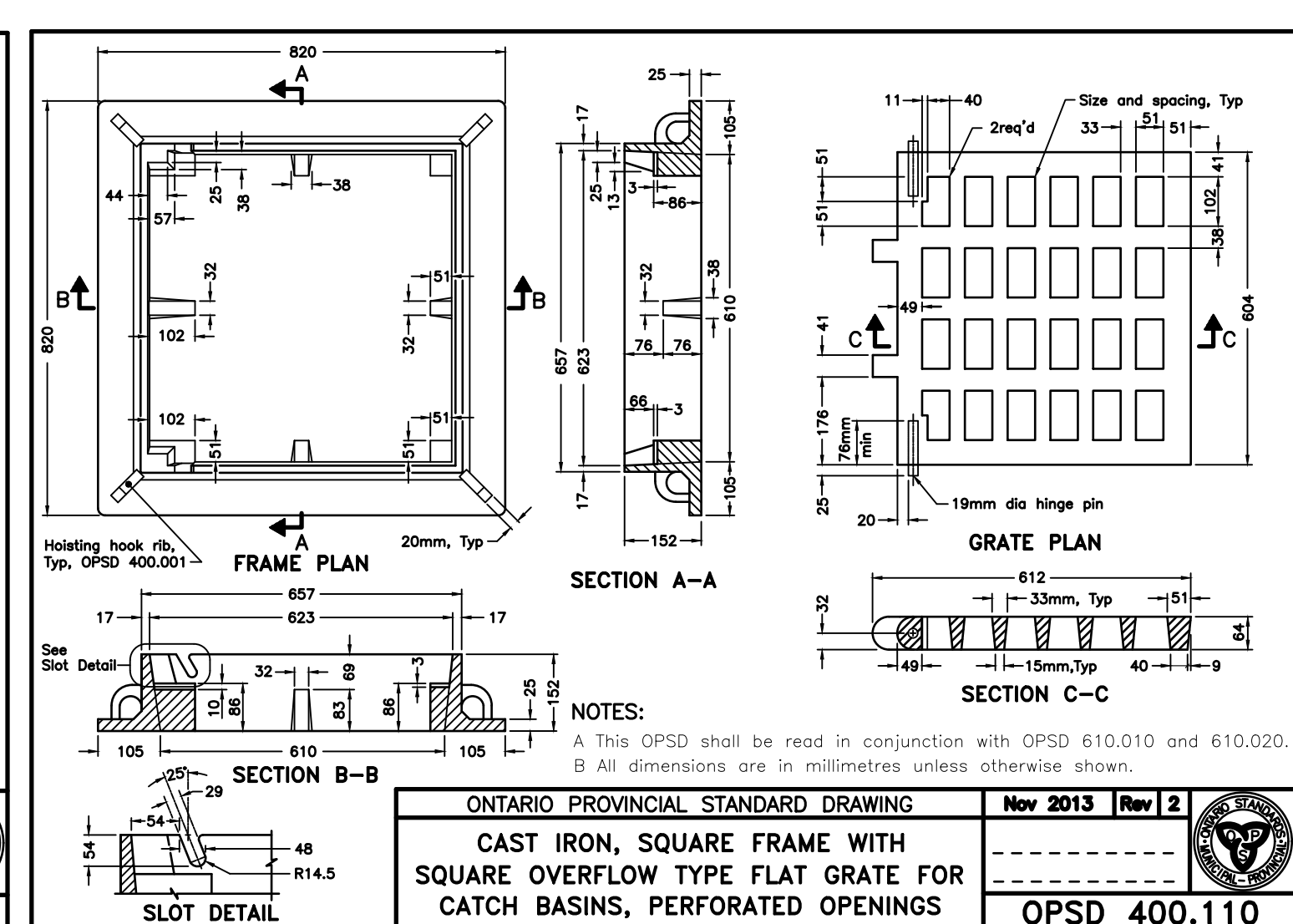
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2013 Rev 3
CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES
 OPSD 401.010



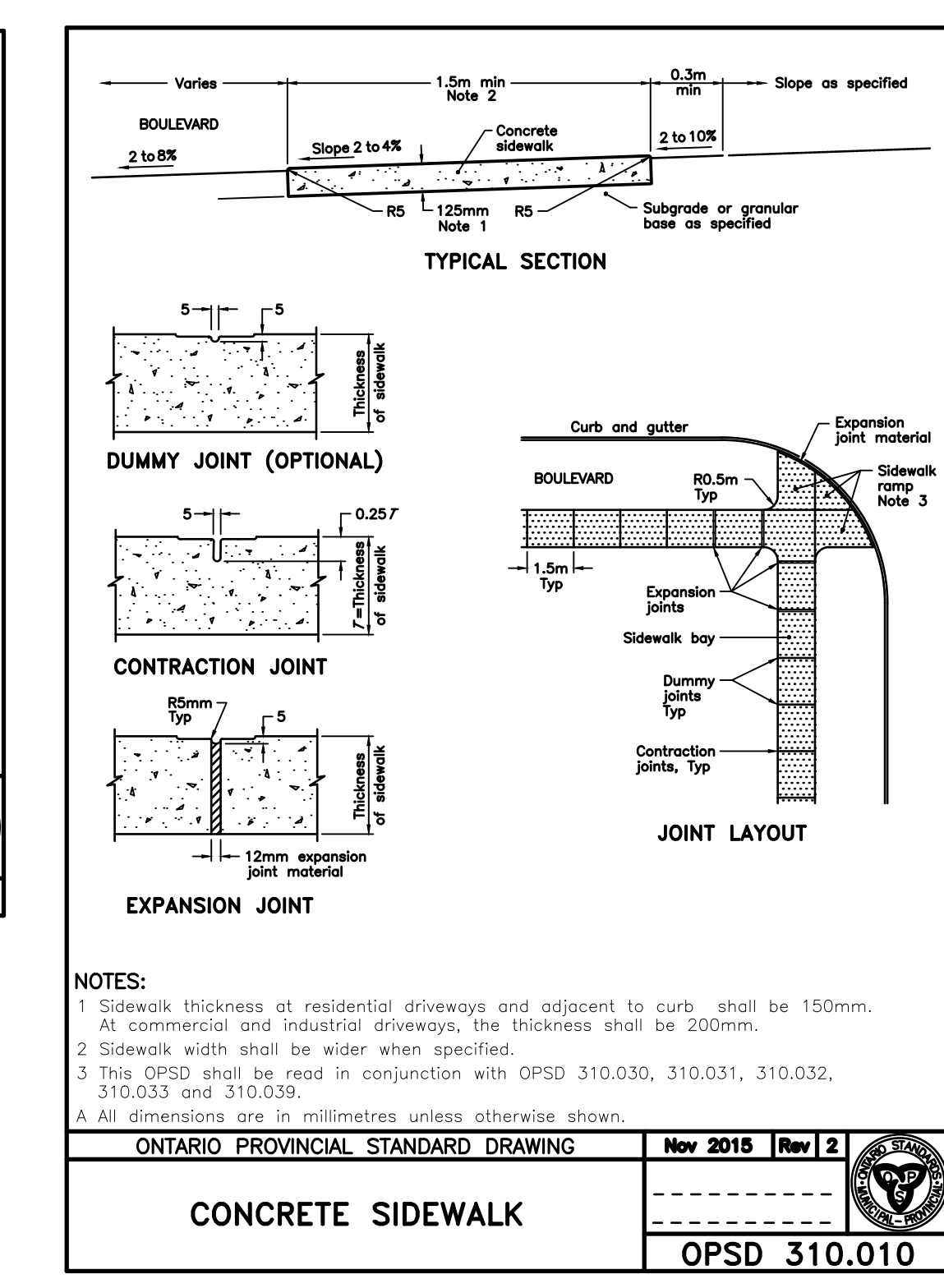
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 2
PRECAST CONCRETE TWIN INLET FLAT CAP
 1500mm DIAMETER
 OPSD 703.021



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2016 Rev 4
SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE
 OPSD 708.020



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2013 Rev 2
CAST IRON, SQUARE FRAME WITH SQUARE OVERFLOW TYPE FLAT GRATE FOR CATCH BASINS, PERFORATED OPENINGS
 OPSD 400.110



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 2
CONCRETE SIDEWALK
 OPSD 310.010

MAGLIN

MTB650 SERIES

MATERIALS: The bollard is constructed of 6.5" (16.8 cm) diameter H.S. steel tube. Decorative top and base are cast aluminum.

DIMENSIONS: Height: 33.30" (84.0 cm) Above Grade
 Tube Diameter: 06.625" (16.8 cm)
 Wall Thickness: 0.025" (0.6 cm)

WEIGHT: 80lbs (36.2kg) for installation types MTB650-B1 & MTB650-B4
 55lbs (25.0kg) for installation types MTB650-B2 & MTB650-B3

FINISH: The bollard is protected with E-Coat hot dipping and finished with the Maglin Powdercoat System.

INSTALLATION: The bollard is available in four different installation types. Details are provided below.

TO SPECIFY: Select MTB650 Series
 Choose:
 - Base Type
 - Powdercoat Color

OPTIONS:
 - Eye Bolts for chain (MTB650-E)
 - 2" Swing Gate (MTB650-B4-SG)

CONCRETE SIDEWALK

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 2
 OPSD 310.010

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PROFESSIONAL ENGINEER
 S. J. COBEAN
 ENGINEER OF ONTARIO

COBIDE ENGINEERING INC.
 517 - 10th STREET, Hanover, Ontario N4N 1R4
 Telephone: (519) 506-5959
 www.cobideeng.com

Client: G. M. DIEMERT ARCHITECTS LTD.

Design: LFP **Scale:** AS SHOWN

Drawn: LFP **Approved:**

Checked: SJC

Date: NOV 2021 **Design Engineer**

DRAWING No. 01867-DET2