

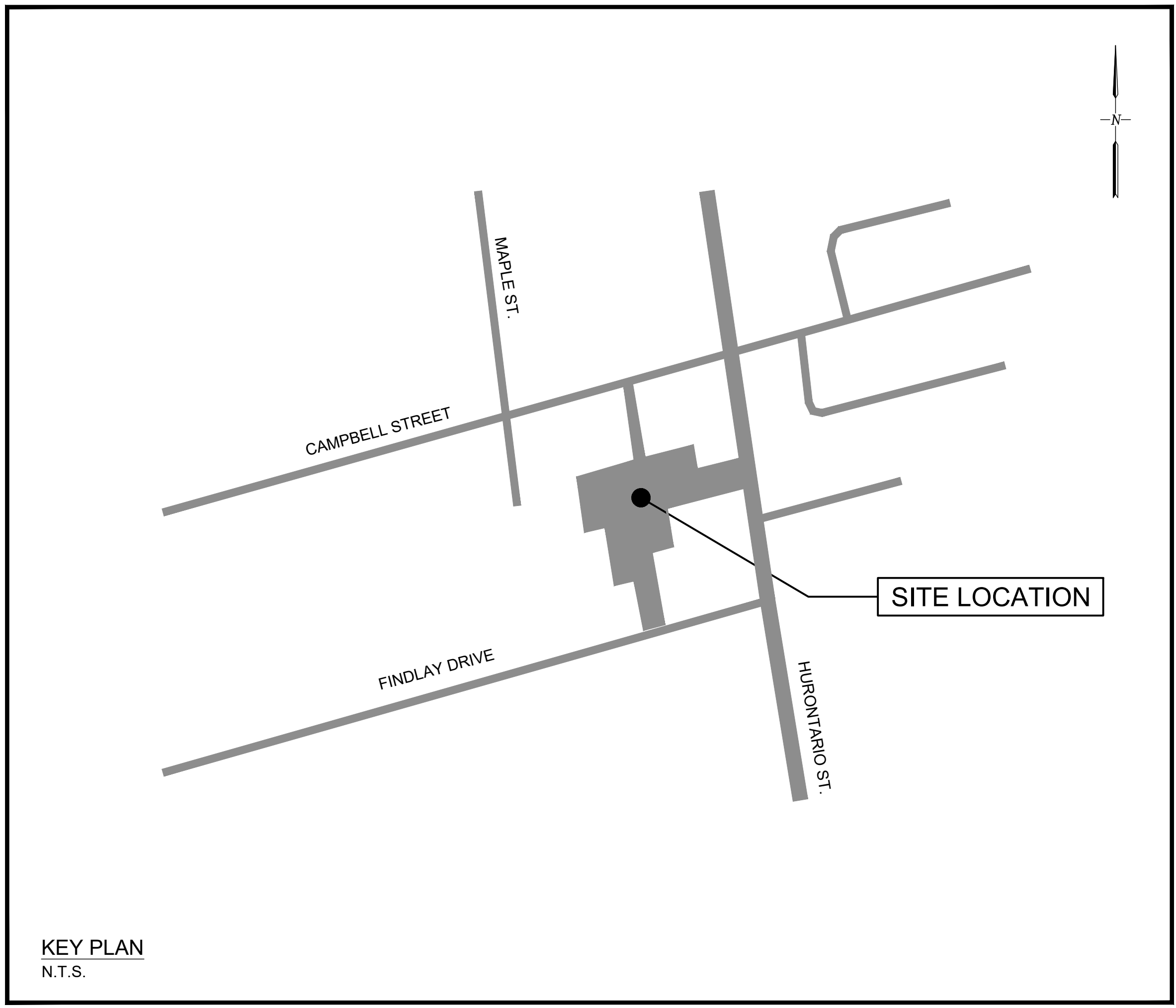
BLACKMOOR GATES

BLACKMOOR GATES

TOWN OF COLLINGWOOD

DRAWING INDEX

C1	EXISTING CONDITIONS AND REMOVALS		
C2	GENERAL ENGINEERING SITE PLAN		
C3	GRADING PLAN		
C4	SERVICING PLAN		
C5	SERVICING PLAN		
C6	POST DEVELOPMENT DRAINAGE AREA PLAN		
C7	SANITARY DRAINAGE AREA PLAN		
C8	PLAN AND PROFILE	BMGA	STA 0+000 to STA 0+096.21
C9	PLAN AND PROFILE	BMGB	STA 0+000 to STA 0+120
C10	PLAN AND PROFILE	BMGB	STA 0+120 to STA 0+280
C11	PLAN AND PROFILE	BMGB	STA 0+280 to STA 0+350.60
C12	PLAN AND PROFILE	EMERGENCY VEHICLE ACCESS DRIVEWAY	STA 0+000 to STA 0+070
C13	PLAN AND PROFILE	CAMPBELL STREET	STA 0+000 to STA 0+180
C14	PLAN AND PROFILE	REAR LOTS 23-28	STA 0+000 to STA 0+093.74
C15	PLAN AND PROFILE	REAR LOTS 19-22	STA 0+000 to STA 0+071.78
C16	EROSION AND SEDIMENT CONTROL PLAN		
C17	EROSION AND SEDIMENT CONTROL DETAILS		
C18	STANDARD DETAILS		
C19	STANDARD DETAILS		
C20	STANDARD DETAILS		
C21	STANDARD DETAILS		
C22	STANDARD DETAILS		



BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6

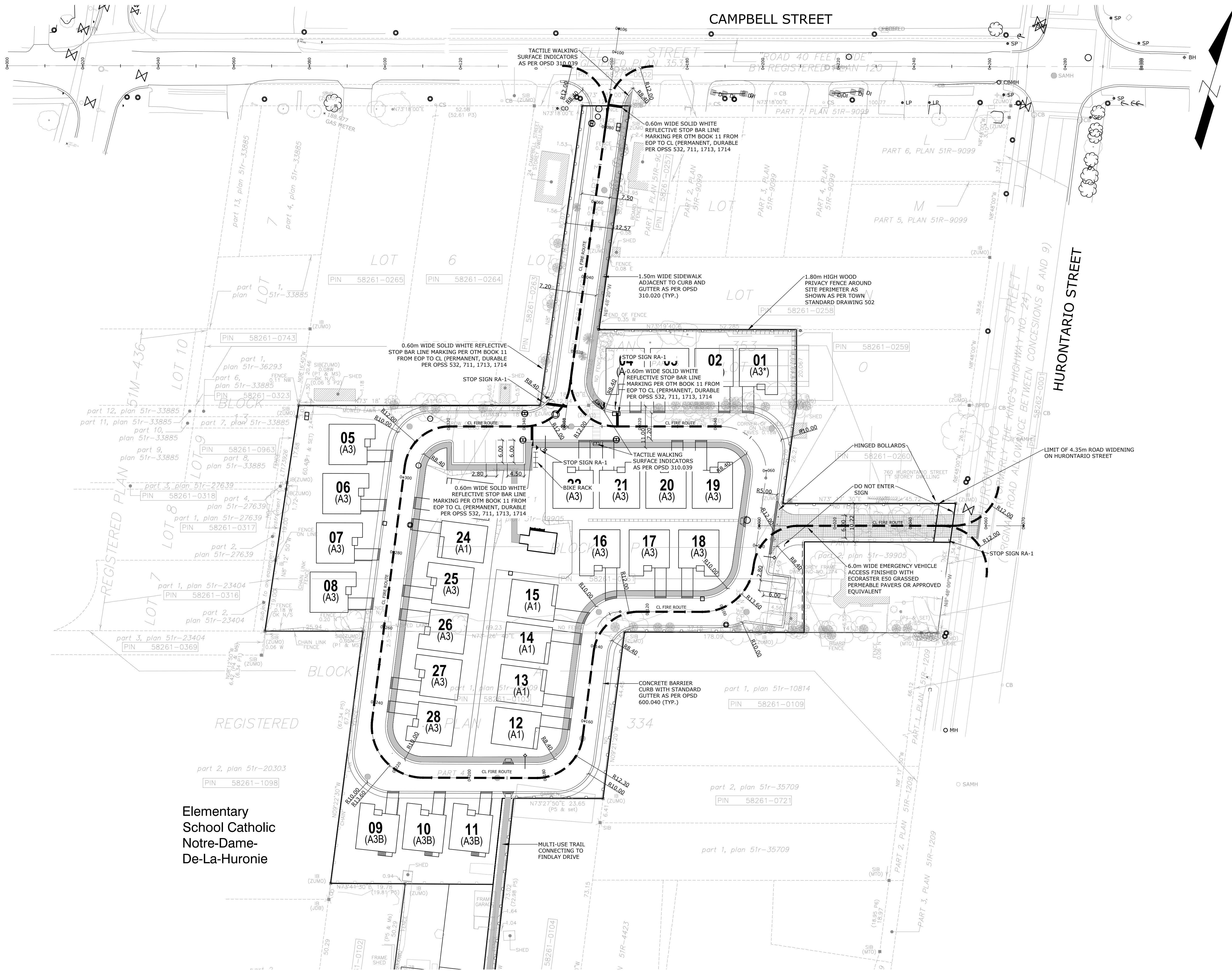
Project No. 2019-020

ISSUED FOR APPROVAL - MARCH 5, 2020



ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

PER
DATE:



KEY PLAN

LEGEND

- MAXIMUM 3:1 SLOPE UNLESS OTHERWISE NOTED
- STORM MANHOLE
- SANITARY MANHOLE
- HYDRANT & VALVE

SNOW STORAGE:
SNOW CLEARED FROM ON SITE ROADWAYS AND SIDEWALKS TO BE TRUCKED OFF SITE

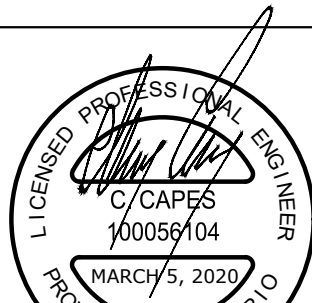
ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

PER
DATE:

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No	Issue / Revision	Date	Auth
1	ISSUED FOR APPROVALS	20/03/05	CC

BENCHMARK:
TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY SMC GEOMATICS
LOCAL BENCHMARK TOP OF EXISTING SANITARY MANHOLE ON CAMPBELL STREET IMMEDIATELY NORTH OF PROPOSED SITE ENTRANCE
ELEVATION = 189.582



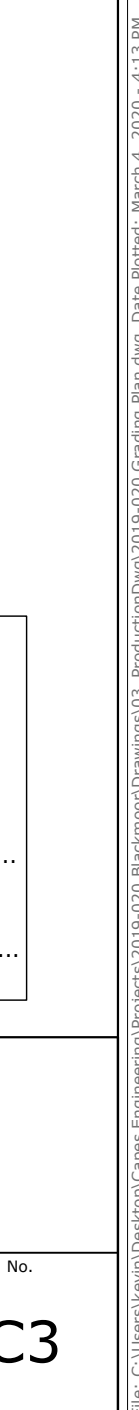
Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6

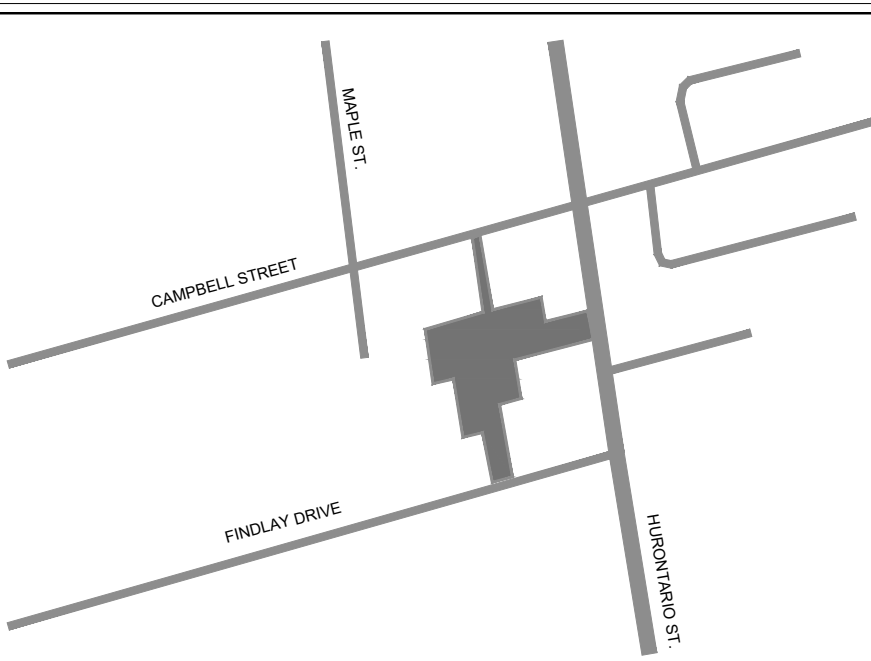
CAPES
ENGINEERING

355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE
CLARKSBURG, ON N0H 1J0
TEL: 705-994-4818

BLACKMOOR GATES
GENERAL ENGINEERING SITE PLAN

Designed K. GRIFFIN	Checked C. CAPES	Date 19/12/09	Drawing No.
Project No. 2019-020	Rev No. 1		C2
Scale 1:500			





LEGEND

- | | |
|--|--|
| | CURB DEPRESSION |
| | MAXIMUM 3:1 SLOPE
UNLESS OTHERWISE NOTED |
| | STORM MANHOLE/SEWER |
| | SANITARY MANHOLE/SEWER |
| | WATERMAIN |
| | SANITARY SINGLE HOUSE CONNECTION AND
CLEANOUT |
| | WATER SERVICE CONNECTION AND CURB STOP |
| | HYDRANT & VALVE |

1. AN EASEMENT TO BE PROVIDED OVER PROPOSED WATERMAIN AND ASSOCIATED SERVICES WITHIN SUBJECT SITE IN FAVOUR OF THE TOWN OF COLLINGWOOD. EASEMENT TO EXTEND TO UNIT ISOLATION VALVES AND REQUIRED ACCESS.
2. ALL TOWN WATERMANS AND SERVICES TO BE CONSTRUCTED IN ACCORDANCE WITH TOWN WATER DEPARTMENT STANDARDS; REFER TO DETAILS FOR APPROVED MATERIALS.
3. ANY AND ALL CONNECTIONS MADE TO TOWN OWNED WATER MAINS, INFRASTRUCTURE OR SERVICES OF COLLINGWOOD WATER DEPARTMENT AT THE DEVELOPER'S EXPENSE.
4. THE COMMUNAL AMENITY BUILDING AND ANY IRRIGATION SYSTEMS WILL REQUIRE PREMISE PROTECTION BACKFLOW PREVENTION AS PER C.O. 16-10-14 BY THE TOWN OF COLLINGWOOD. AS PER BY-LAW, THE INSTALLED DEVICE WILL REQUIRE ANNUAL TESTING, WITH ALL ASSOCIATED COSTS THE RESPONSIBILITY OF THE OWNER.

Elementary
School Catholic
Notre-Dame-
De-La-Huronie

ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

PER

DATE:



Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6



355310 BLUE MOUNTAINS - EUPHRASIA TOWNLIN
CLARKSBURG, ON N0H 1J0
TEL: 705-994-4818

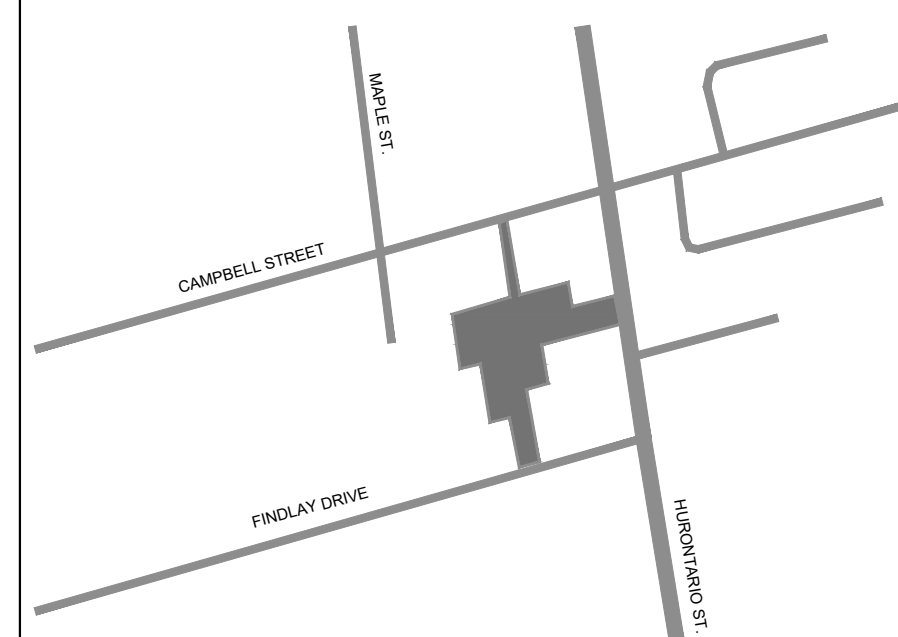
BLACKMOOR GATES
SERVICING PLAN

Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19
Project No. 2019-020		Rev No. 1

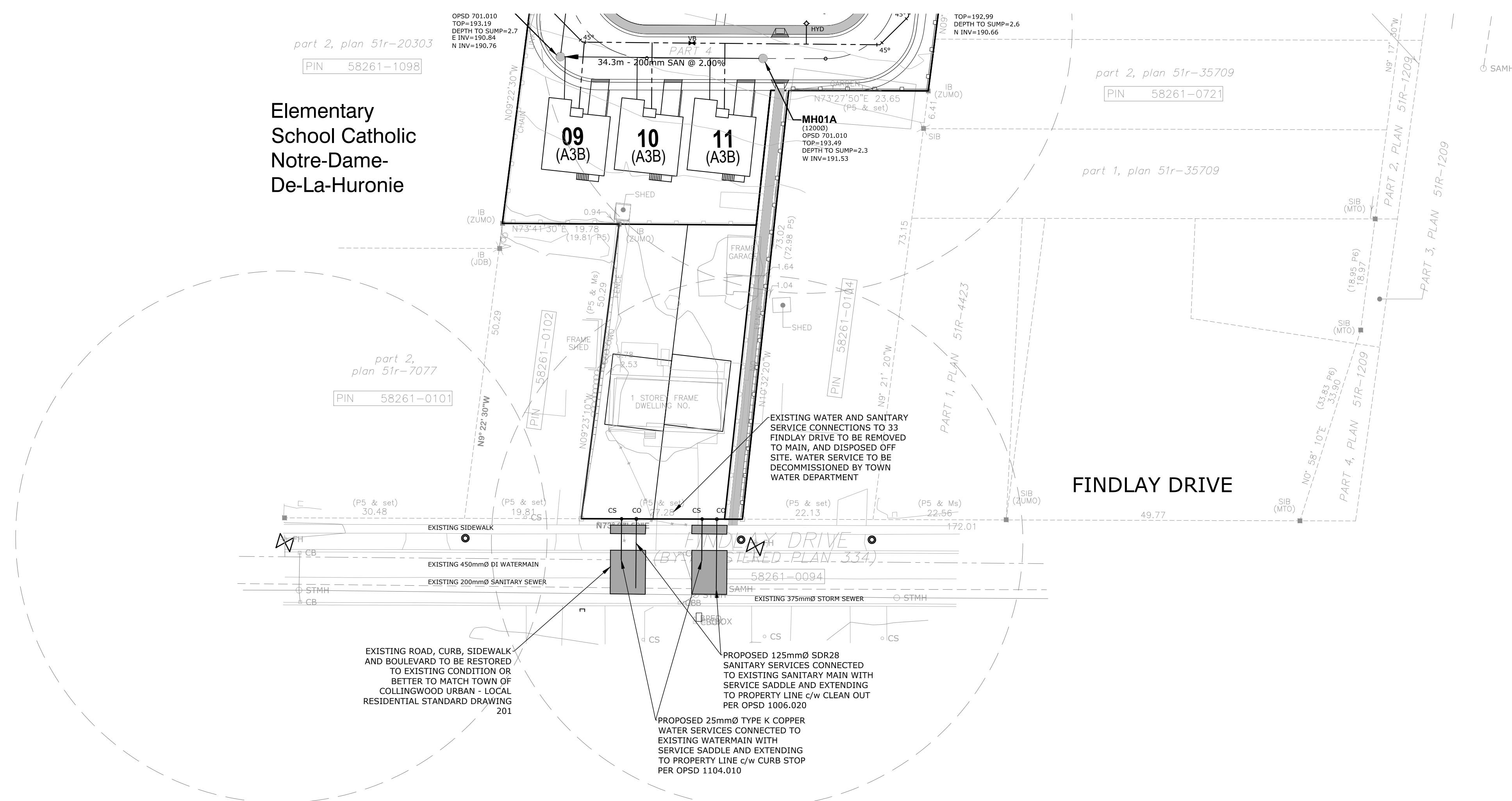
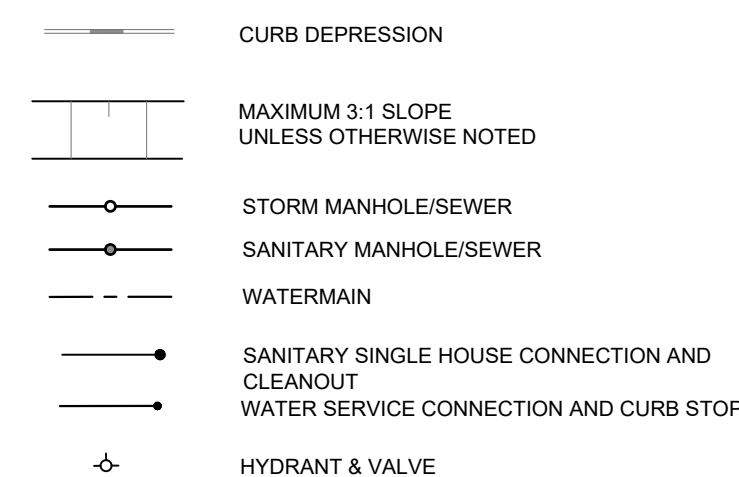
Scale
1:500

A horizontal graphic scale bar with alternating black and white segments. Above the bar, numerical values are marked at 0, 5.0, 10.0, 20.0, and 30.0m.

C4



LEGEND

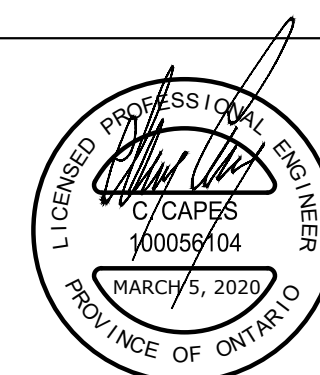


Elementary
School Catholic
Notre-Dame-
De-La-Huronie

FINDLAY DRIVE

PER

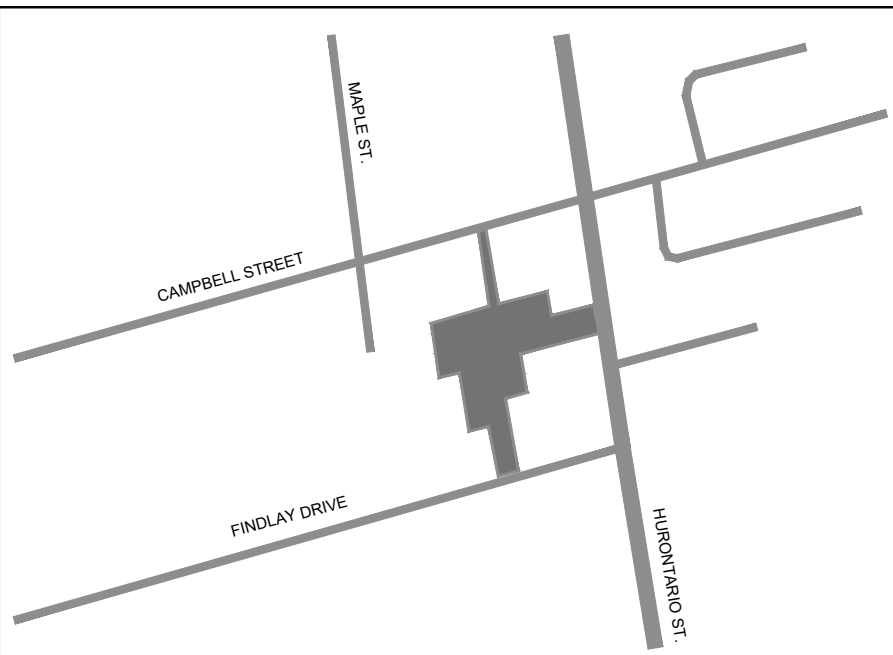
DATE:

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CAPE
ENGINEERING

355310 BLUE MOUNTAINS - EUPHRASIA TOWNLIN
CLARKSBURG, ON N0M 1J0
TEL: 705-994-4818

C5



- LEGEND**
- CURB DEPRESSION
 - MAXIMUM 3:1 SLOPE UNLESS OTHERWISE NOTED
 - STORM MANHOLE/SEWER
 - DRAINAGE AREA ID
 - PERCENT IMPERVIOUS
 - DRAINAGE AREA (ha)
 - POST DEVELOPMENT DRAINAGE AREA BOUNDARY
 - EXISTING DRAINAGE AREA BOUNDARY
 - PROPOSED OVERLAND FLOW PATH
 - EXISTING OVERLAND FLOW PATH

ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

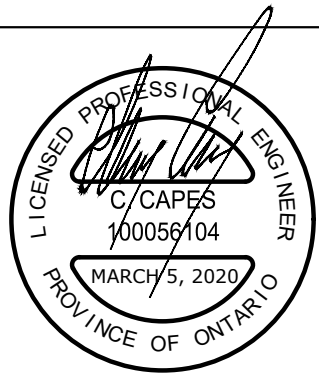
PER

DATE:

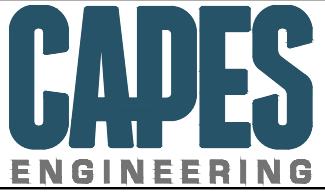
No	Issue / Revision	Date	Auth
1	ISSUED FOR APPROVALS	20/03/05	CC

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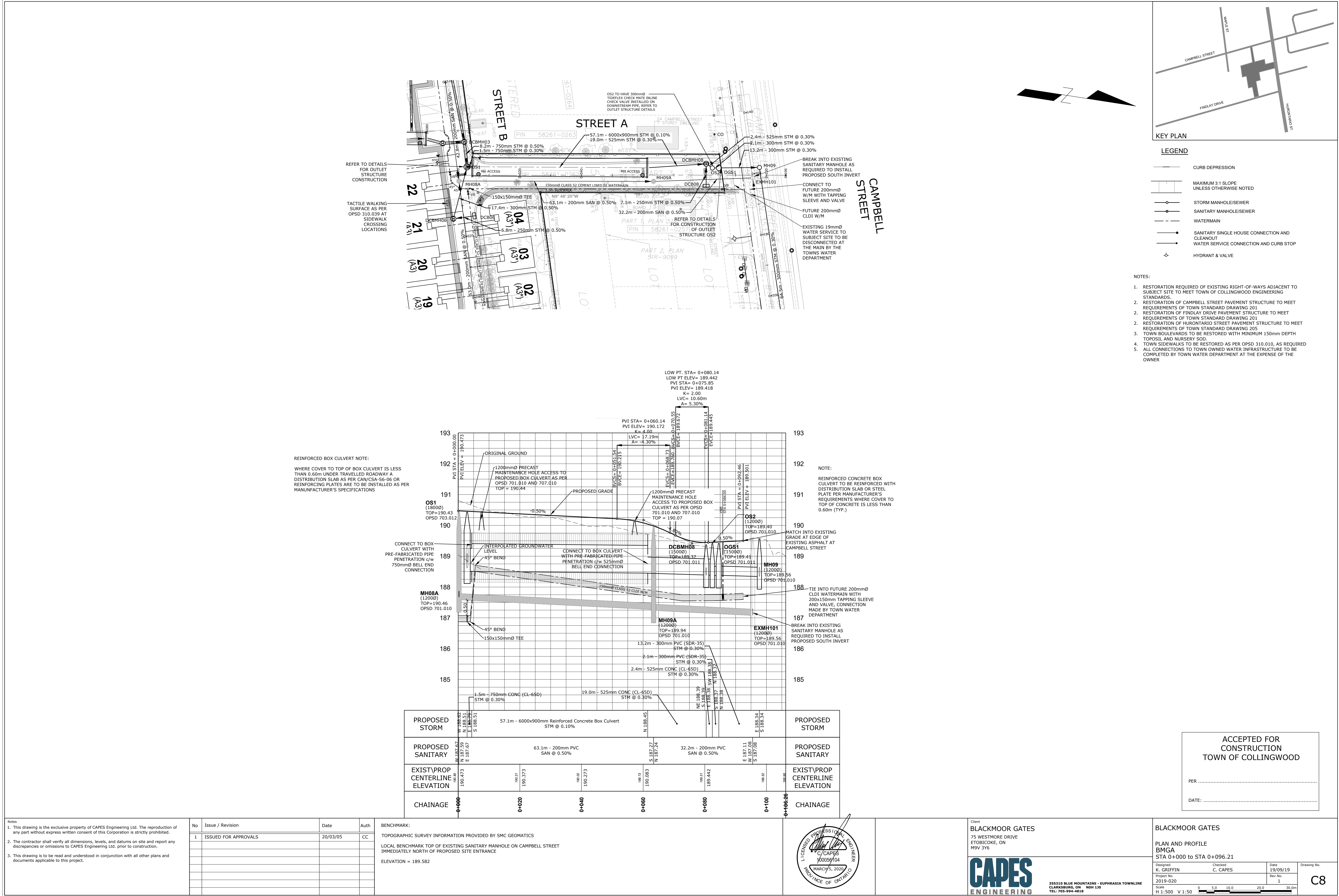
Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6

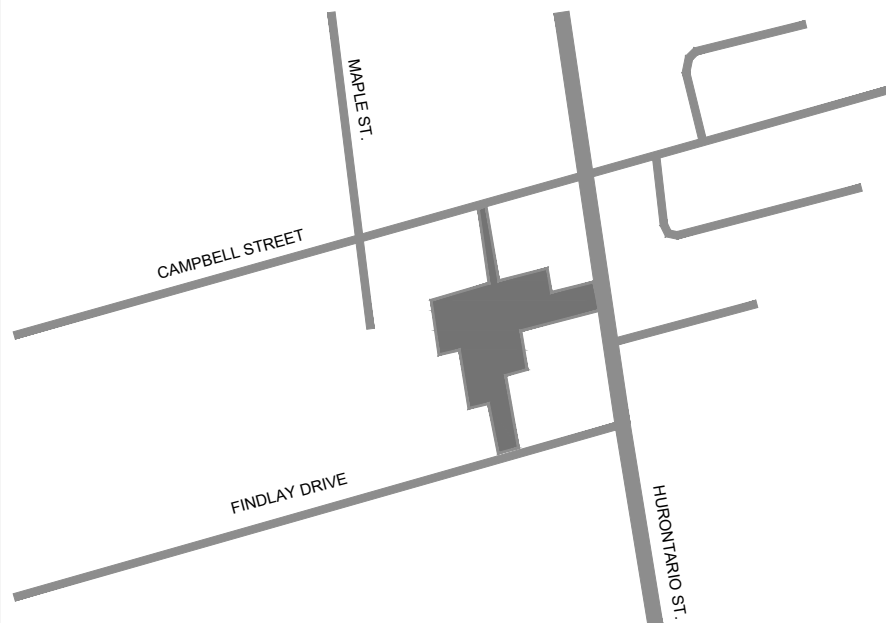
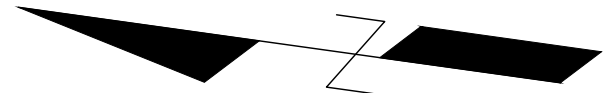
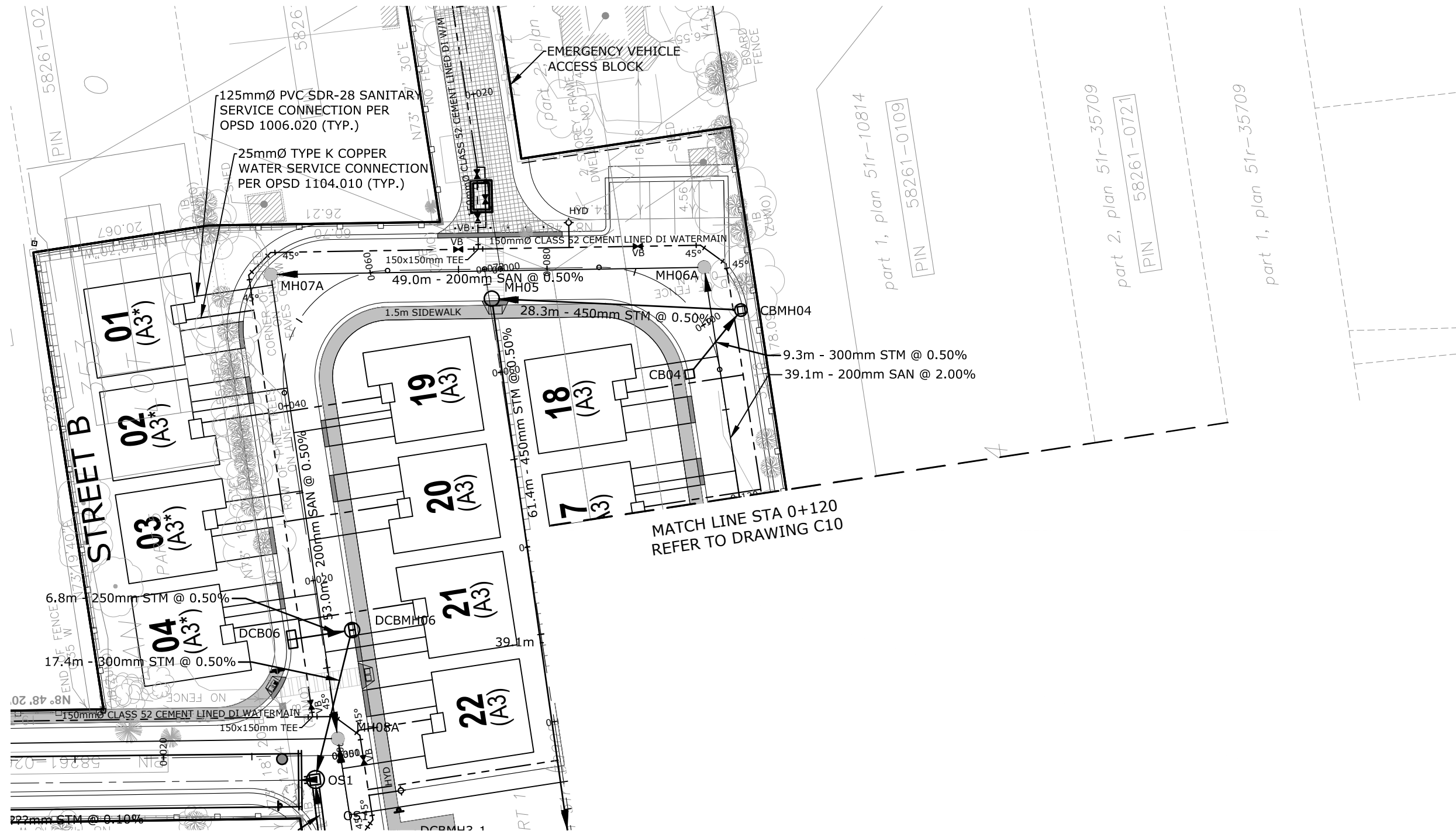


355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE
CLARKSBURG, ON N0H 1J0
TEL: 705-994-4818

BLACKMOOR GATES
POST DEVELOPMENT DRAINAGE AREA PLAN

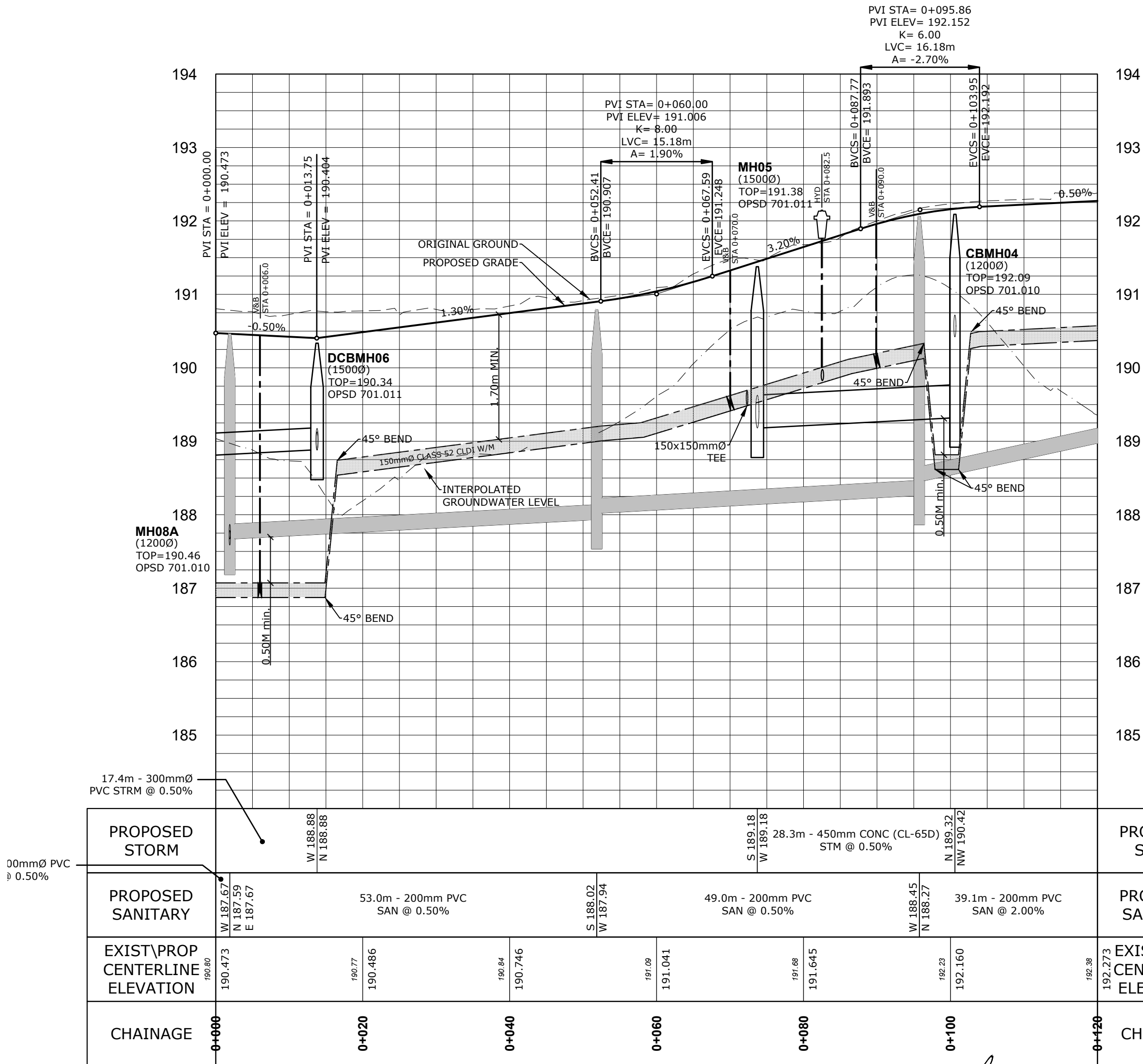
Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19	Drawing No.
Project No. 2019-020	Rev No. 1		C6
Scale 1:750			





- LEGEND**
- CURB DEPRESSION
 - MAXIMUM 3:1 SLOPE UNLESS OTHERWISE NOTED
 - STORM MANHOLE/SEWER
 - SANITARY MANHOLE/SEWER
 - WATERMAIN
 - SANITARY SINGLE HOUSE CONNECTION AND CLEANOUT
 - WATER SERVICE CONNECTION AND CURB STOP
 - HYDRANT & VALVE

- NOTES:**
- RESTORATION REQUIRED OF EXISTING RIGHT-OF-WAYS ADJACENT TO SUBJECT SITE TO MEET TOWN OF COLLINGWOOD ENGINEERING STANDARDS.
 - RESTORATION OF CAMPBELL STREET PAVEMENT STRUCTURE TO MEET REQUIREMENTS OF TOWN STANDARD DRAWING 201
 - RESTORATION OF FINDLAY DRIVE PAVEMENT STRUCTURE TO MEET REQUIREMENTS OF TOWN STANDARD DRAWING 201
 - RESTORATION OF HURONTARIO STREET PAVEMENT STRUCTURE TO MEET REQUIREMENTS OF TOWN STANDARD DRAWING 205
 - TOWN BOULEVARDS TO BE RESTORED WITH MINIMUM 150mm DEPTH TOPSIL AND NURSERY SOIL.
 - TOWN SIDEWALKS TO BE RESTORED AS PER OPSD 310.010, AS REQUIRED
 - ALL CONNECTIONS TO TOWN OWNED WATER INFRASTRUCTURE TO BE COMPLETED BY TOWN WATER DEPARTMENT AT THE EXPENSE OF THE OWNER



PROPOSED STORM		PROPOSED SANITARY		EXIST/PROP CENTERLINE ELEVATION		CHAINAGE	
17.4m - 300mmØ PVC STRM @ 0.50%	188.88	53.0m - 200mm PVC SAN @ 0.50%	187.59	190.473	190.473	0+000	0+000
28.3m - 450mm CONC (CL-65D) STM @ 0.50%	189.18	49.0m - 200mm PVC SAN @ 0.50%	187.54	190.486	190.486	0+020	0+020
39.1m - 200mm PVC SAN @ 2.00%	189.32			190.746	190.746	0+040	0+040
				191.041	191.041	0+060	0+060
				191.645	191.645	0+080	0+080
				192.160	192.160	0+100	0+100
				192.38	192.38	0+120	0+120

ACCEPTED FOR CONSTRUCTION
TOWN OF COLLINGWOOD

PER

DATE:

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1	ISSUED FOR APPROVALS	20/03/05	CC

BENCHMARK:

TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY SMC GEOMATICS

LOCAL BENCHMARK TOP OF EXISTING SANITARY MANHOLE ON CAMPBELL STREET IMMEDIATELY NORTH OF PROPOSED SITE ENTRANCE

ELEVATION = 189.582

BLACKMOOR GATES

75 WESTMORE DRIVE

ETOBICOKE, ON

M9V 3Y6

CAPES

ENGINEERING

355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE

CLARKSBURG, ON N0M 1J0

TEL: 705-994-4818

DESIGNED

K. GRIFFIN

CHECKED

C. CAPES

DATE

19/09/19

PROJECT NO.

2019-020

REV. NO.

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Notes

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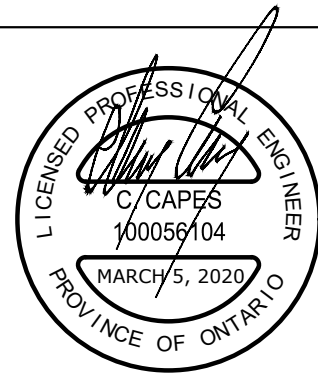
No	Issue / Revision	Date	Auth
1	ISSUED FOR APPROVALS	20/03/05	CC

BENCHMARK:

TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY SMC GEOMATICS

LOCAL BENCHMARK TOP OF EXISTING SANITARY MANHOLE ON CAMPBELL STREET IMMEDIATELY NORTH OF PROPOSED SITE ENTRANCE

ELEVATION = 189.582



Client

BLACKMOOR GATES

75 WESTMORE DRIVE

ETOBICOKE, ON

M9V 3Y6



355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE

CLARKSBURG, ON N0M 1J0

TEL: 705-994-4818

BLACKMOOR GATES

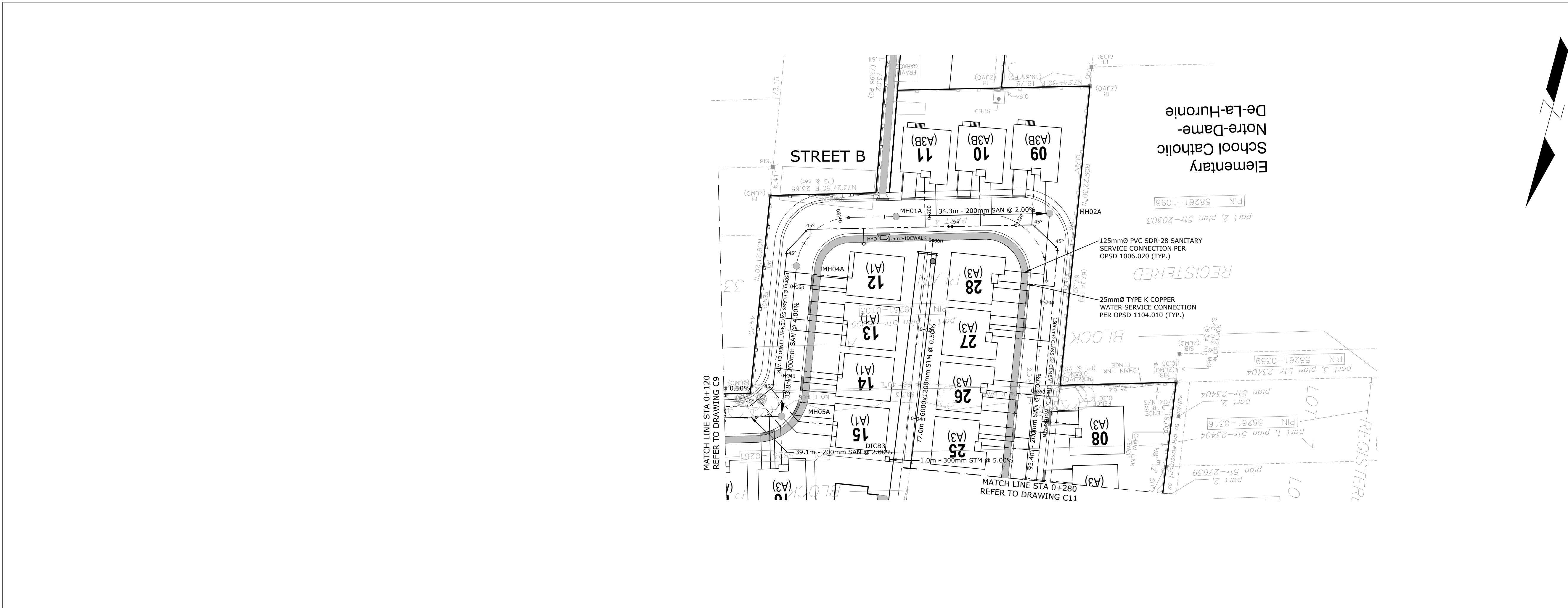
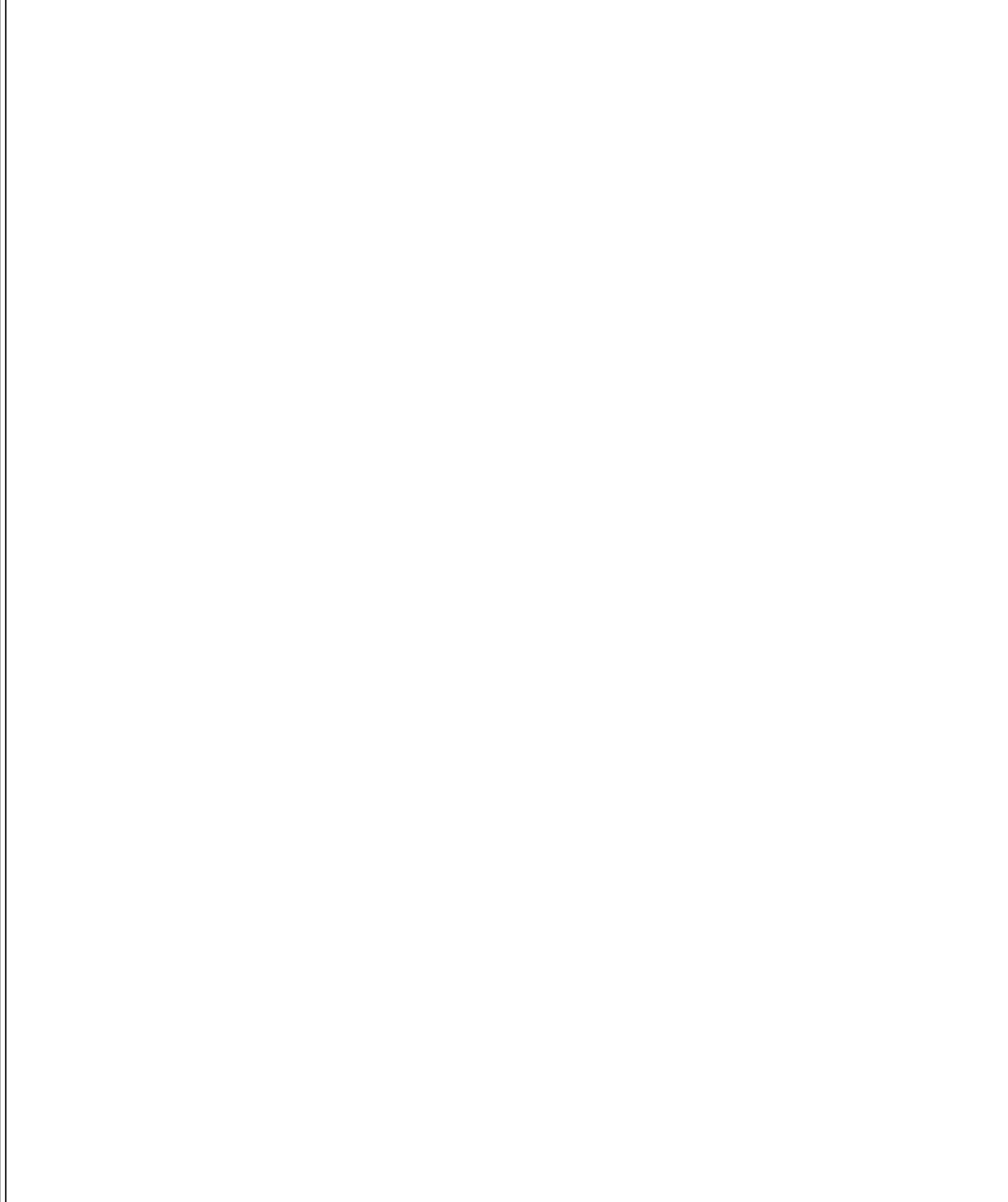
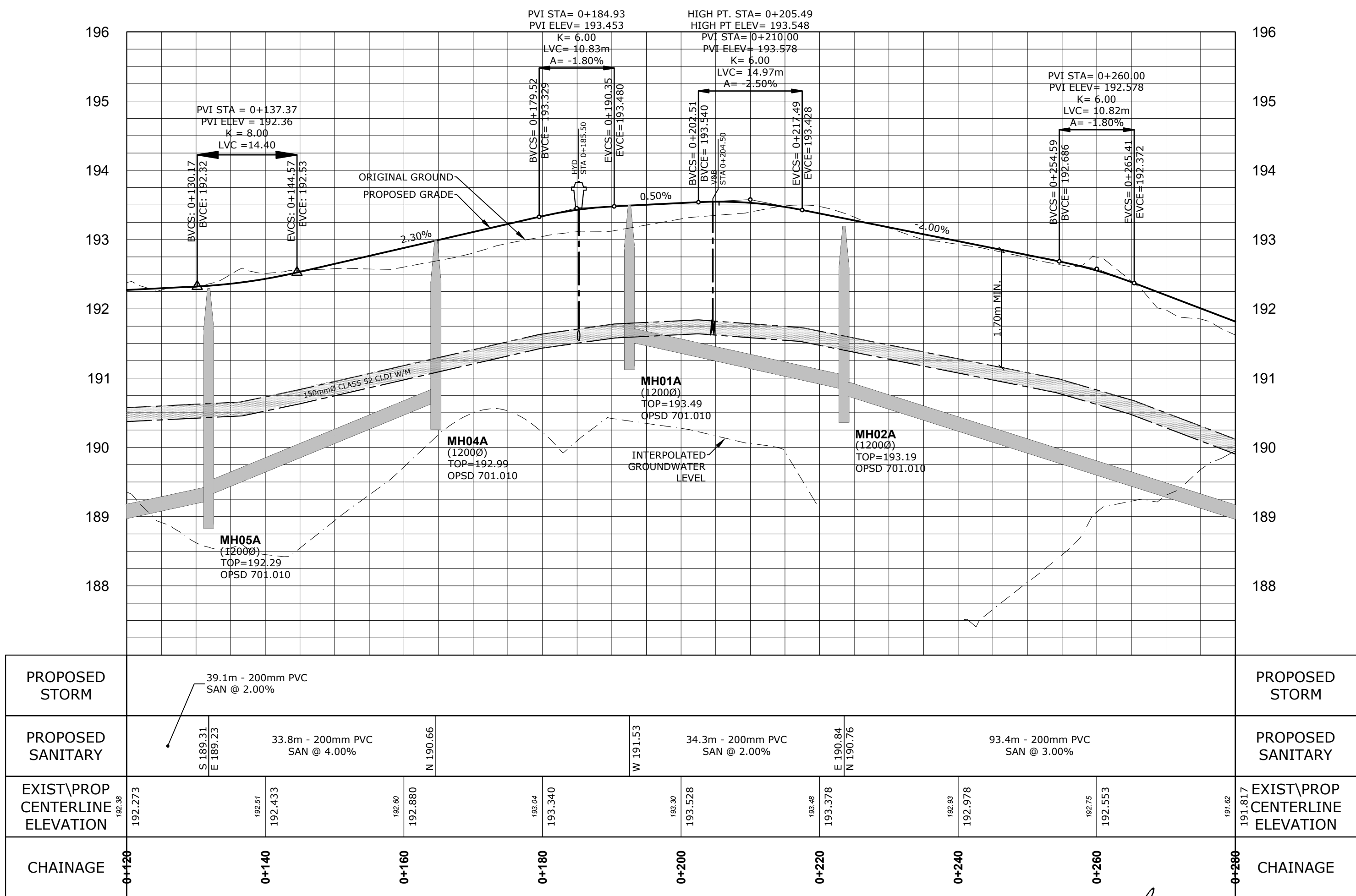
PLAN AND PROFILE

BMGB

STA 0+120 to STA 0+280

Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19	Drawing No.
Project No. 2019-020	Rev No. 1		
Scale H 1:500 V 1:50			

C10

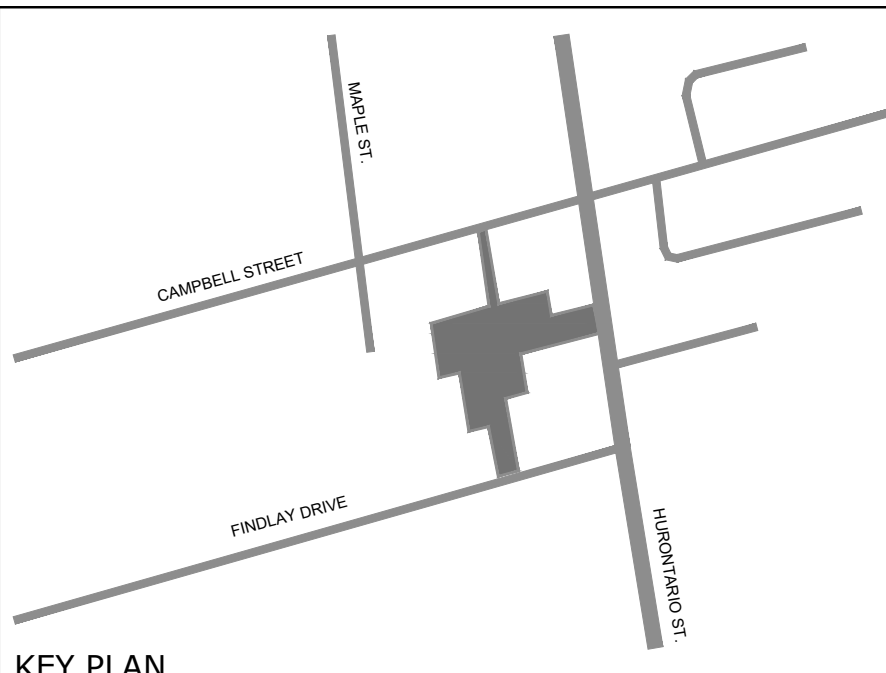


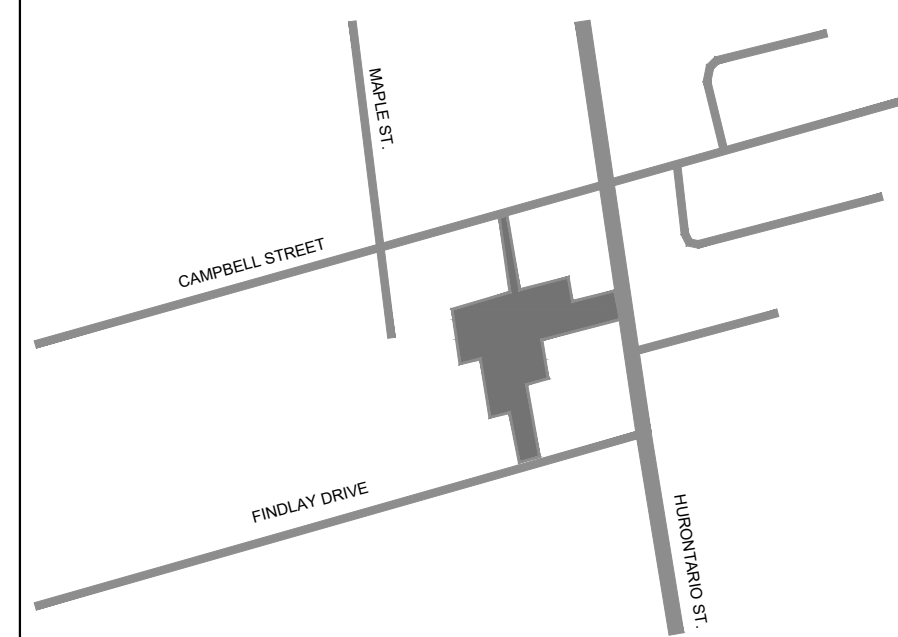
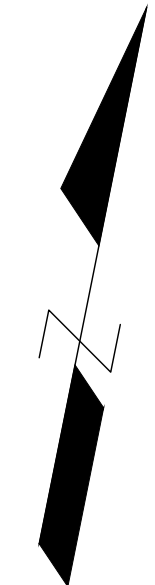
LEGEND

- CURB DEPRESSION
- MAXIMUM 3:1 SLOPE UNLESS OTHERWISE NOTED
- STORM MANHOLE/SEWER
- SANITARY MANHOLE/SEWER
- WATERMAIN
- SANITARY SINGLE HOUSE CONNECTION AND CLEANOUT
- WATER SERVICE CONNECTION AND CURB STOP
- HYDRANT & VALVE

NOTES:

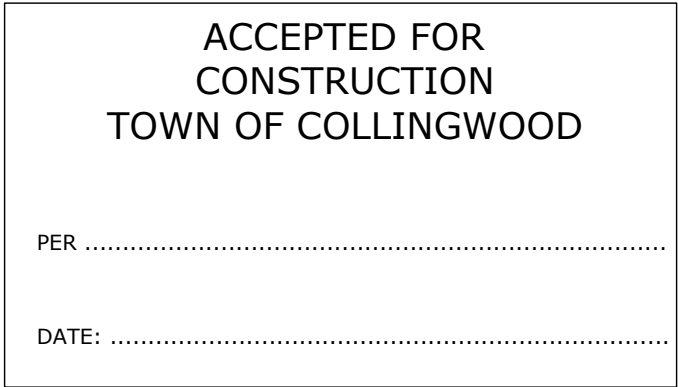
- RESTORATION REQUIRED OF EXISTING RIGHT-OF-WAYS ADJACENT TO SUBJECT SITE TO MEET TOWN OF COLLINGWOOD ENGINEERING STANDARDS.
- RESTORATION OF CAMPBELL STREET PAVEMENT STRUCTURE TO MEET REQUIREMENTS OF TOWN STANDARD DRAWING 201
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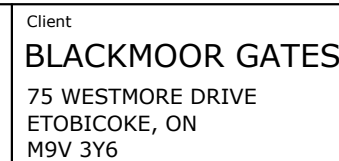


	CURB DEPRESSION
	MAXIMUM 3:1 SLOPE UNLESS OTHERWISE NOTED
	STORM MANHOLE/SEWER
	SANITARY MANHOLE/SEWER
	WATERMAIN
	SANITARY SINGLE HOUSE CONNECTION AND CLEANOUT
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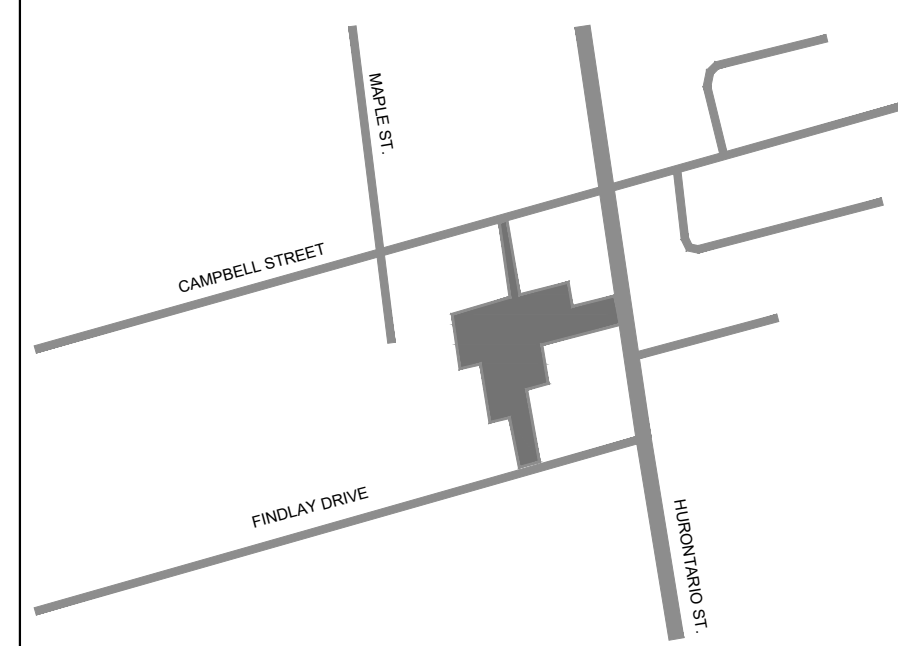
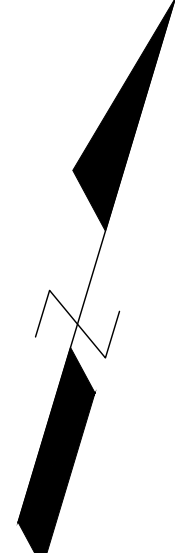


BENCHMARK:
TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY SMC GEOMATICS
LOCAL BENCHMARK TOP OF EXISTING SANITARY MANHOLE ON CAMPBELL STREET
IMMEDIATELY NORTH OF PROPOSED SITE ENTRANCE
ELEVATION = 189.582

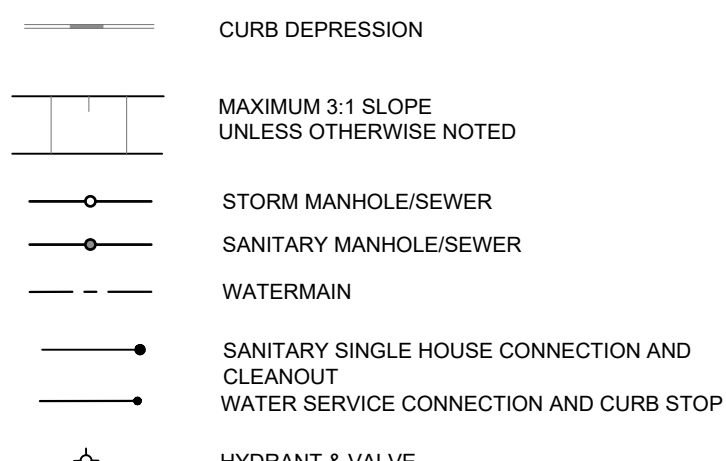


355310 BLUE MOUNTAINS - EUPHRASIA TOWNLIN
CLARKSBURG, ON N0H 1J0
TEL: 705-994-4818

C11

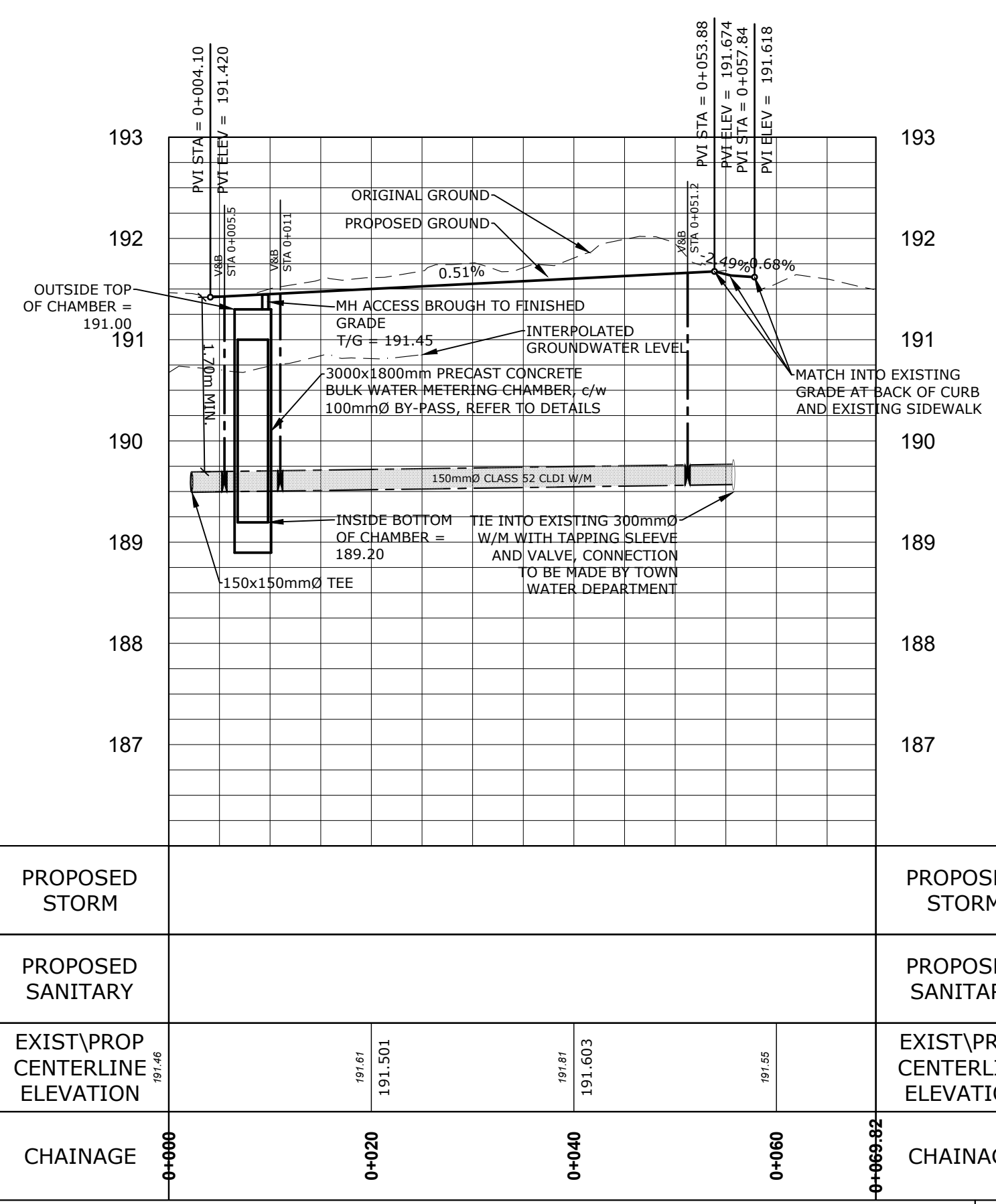


LEGEND



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ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

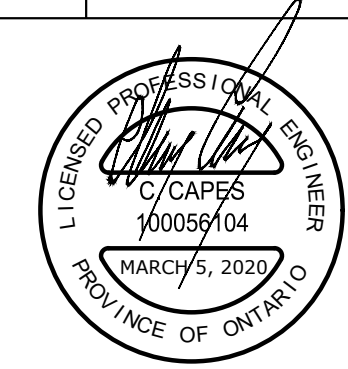
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DATE:

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ELEVATION = 189.582



Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6



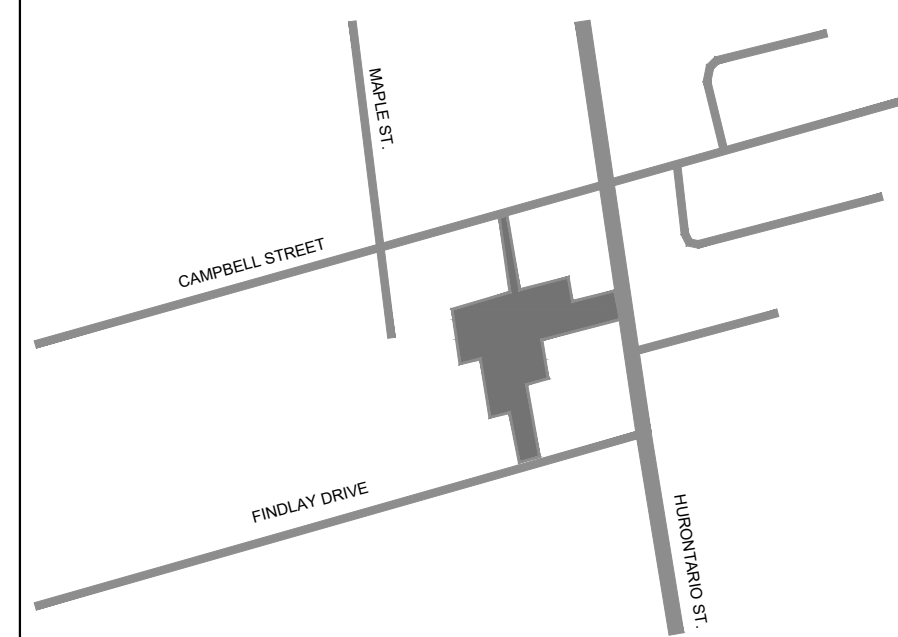
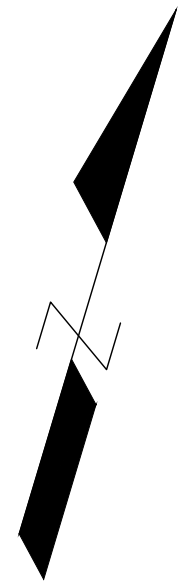
355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE
CLARKSBURG, ON N0H 1J0
TEL: 705-994-4818

BLACKMOOR GATES

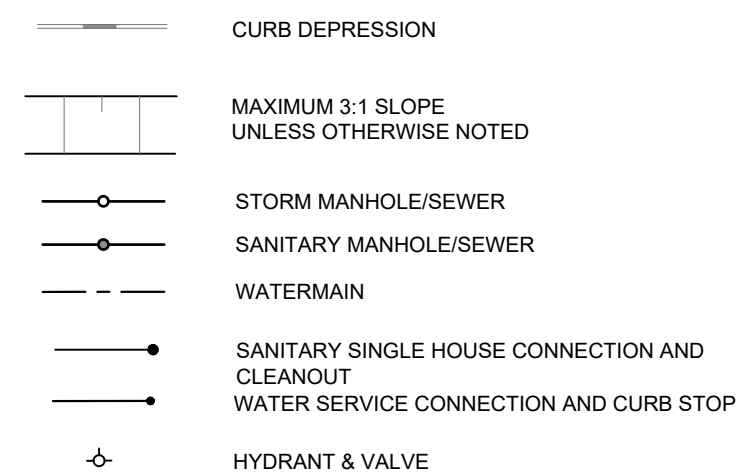
PLAN AND PROFILE
EMERGENCY VEHICLE ACCESS DRIVEWAY
STA 0+000 to STA 0+070

Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19
Project No. 2019-020	Rev No. 1	
Scale H 1:500 V 1:50		

C12

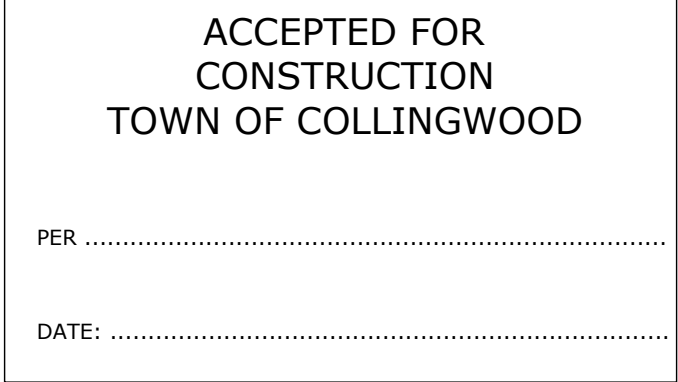


LEGEND



NOTES:

1. RESTORATION REQUIRED OF EXISTING RIGHT-OF-WAYS ADJACENT TO SUBJECT SITE TO MEET TOWN OF COLLINGWOOD ENGINEERING STANDARDS.
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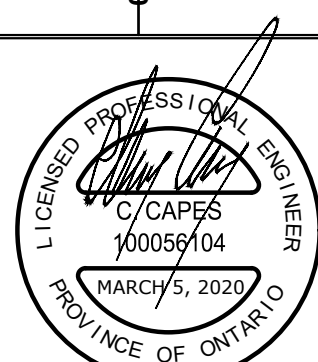


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BENCHMARK:
TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY SMC GEOMATICS
LOCAL BENCHMARK TOP OF EXISTING SANITARY MANHOLE ON CAMPBELL STREET
IMMEDIATELY NORTH OF PROPOSED SITE ENTRANCE
ELEVATION = 189.582



Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6



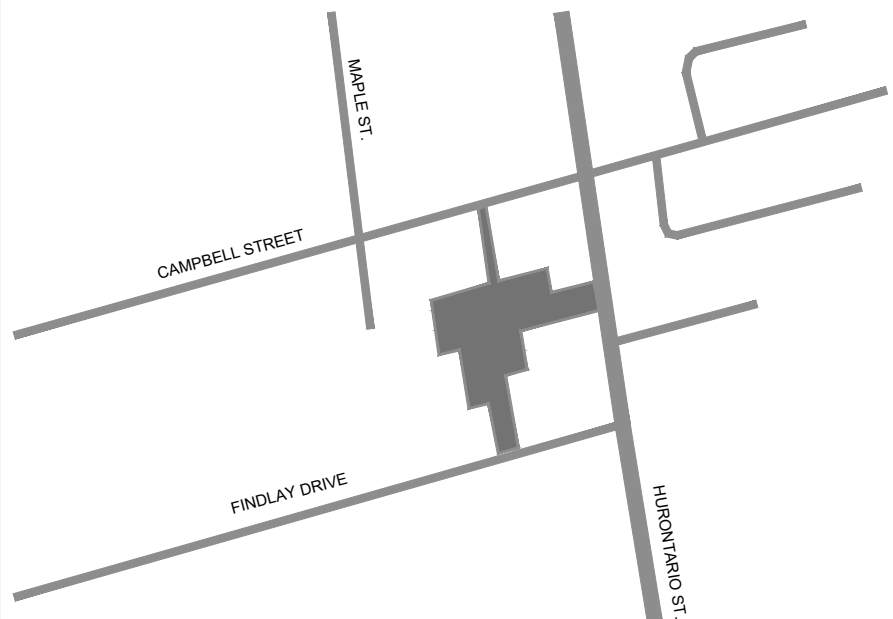
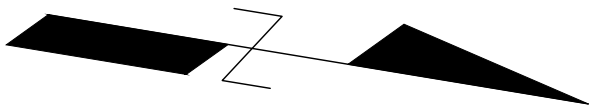
355310 BLUE MOUNTAINS - EUPHRASIA TOWNLIN
CLARKSBURG, ON N0H 1J0
TEL: 705-994-4818

BLACKMOOR GATES

PLAN AND PROFILE
CAMPBELL STREET
STA 0+000 to STA 0+180

Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19
Project No. 2019-020		Rev No. 1
Scale H 1:500 V 1:50		

C13



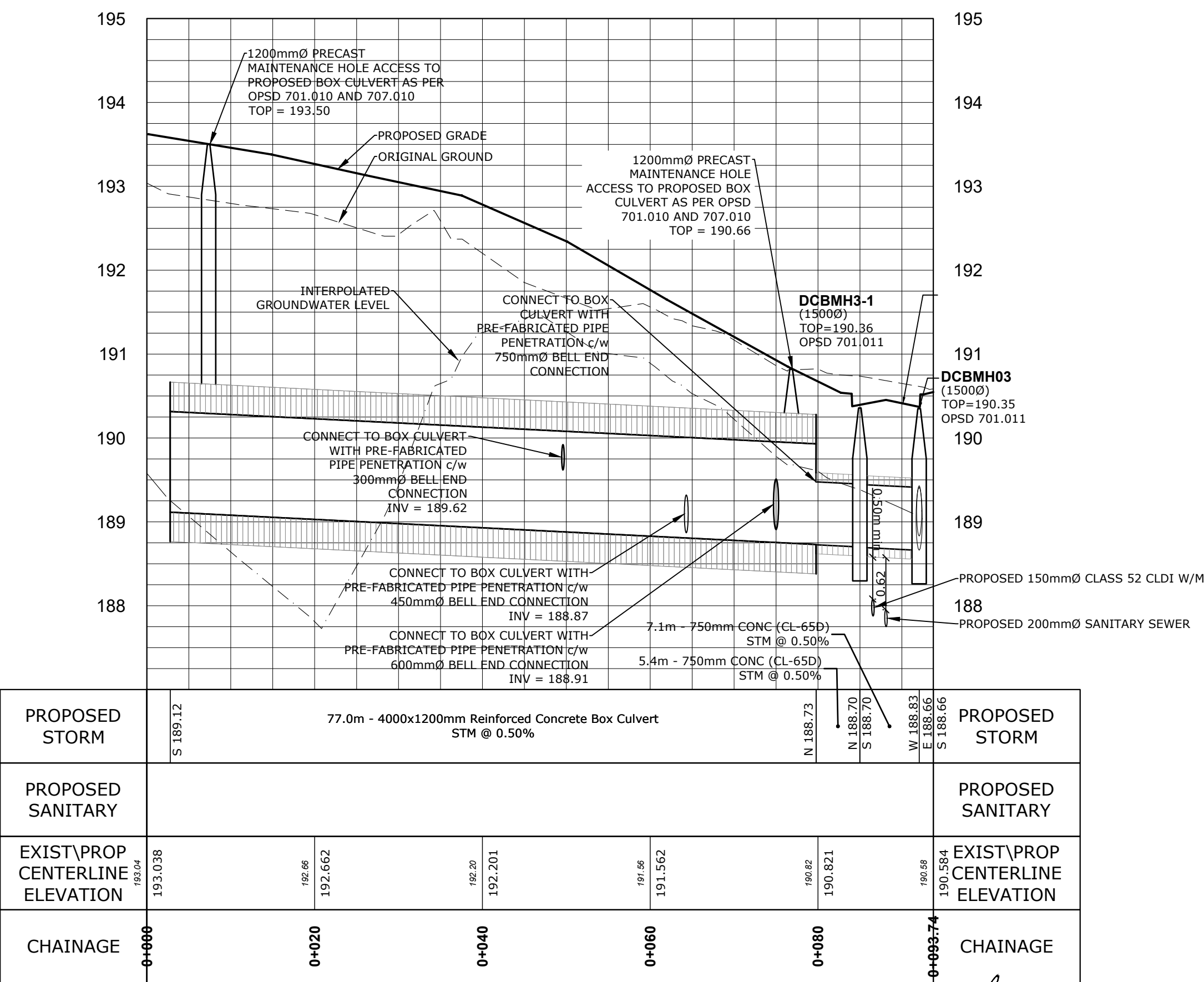
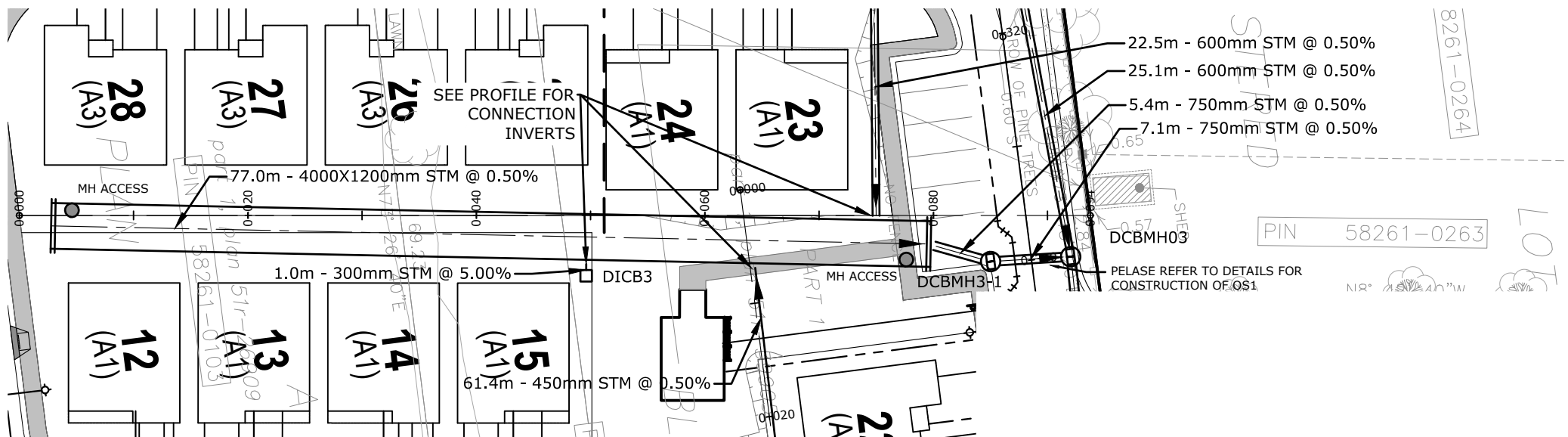
KEY PLAN

LEGEND

- CURB DEPRESSION
- MAXIMUM 3:1 SLOPE UNLESS OTHERWISE NOTED
- STORM MANHOLE/SEWER
- SANITARY MANHOLE/SEWER
- WATERMAIN
- SANITARY SINGLE HOUSE CONNECTION AND CLEANOUT
- WATER SERVICE CONNECTION AND CURB STOP
- HYDRANT & VALVE

NOTES:

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ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

PER

DATE:

No	Issue / Revision	Date	Auth
1	ISSUED FOR APPROVALS	20/03/05	CC

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LOCAL BENCHMARK TOP OF EXISTING SANITARY MANHOLE ON CAMPBELL STREET IMMEDIATELY NORTH OF PROPOSED SITE ENTRANCE

ELEVATION = 189.582

PROPOSED STORM

PROPOSED SANITARY

EXIST/PROP CENTERLINE ELEVATION

CHAINAGE

PROPOSED STORM

PROPOSED SANITARY

EXIST/PROP CENTERLINE ELEVATION

CHAINAGE



Client

BLACKMOOR GATES

75 WESTMORE DRIVE

ETOBICOKE, ON

M9V 3Y6

CAPES ENGINEERING

355310 BLUE MOUNTAINS - EUPHRASIA TOWNSHIP

CLARKSBURG, ON N0H 1J0

TEL: 705-994-4818

BLACKMOOR GATES

PLAN AND PROFILE

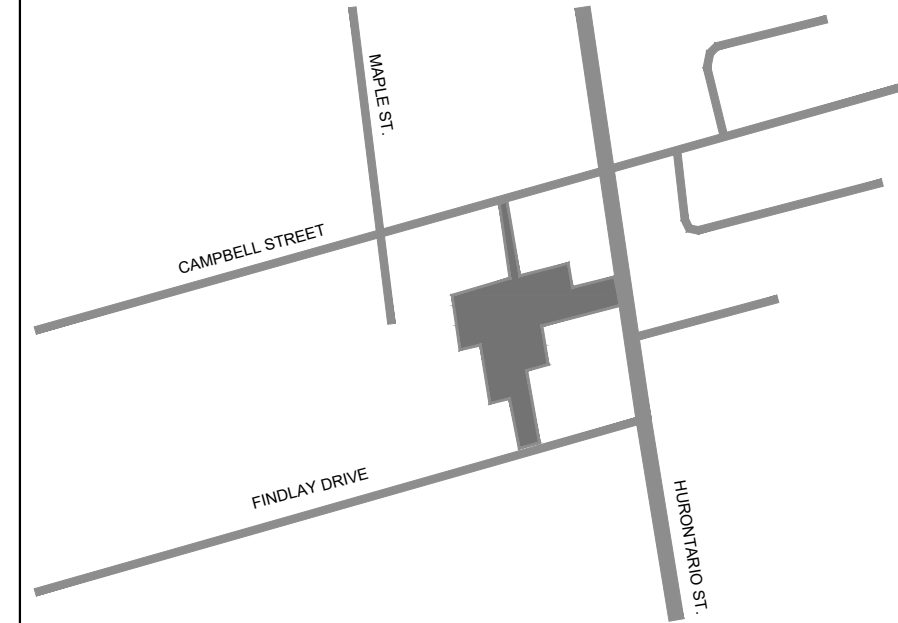
REAR LOTS 23-28

STA 0+000 to STA 0+093.74

Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19
Project No. 2019-020	Rev No. 1	

Scale
H 1:500 V 1:50

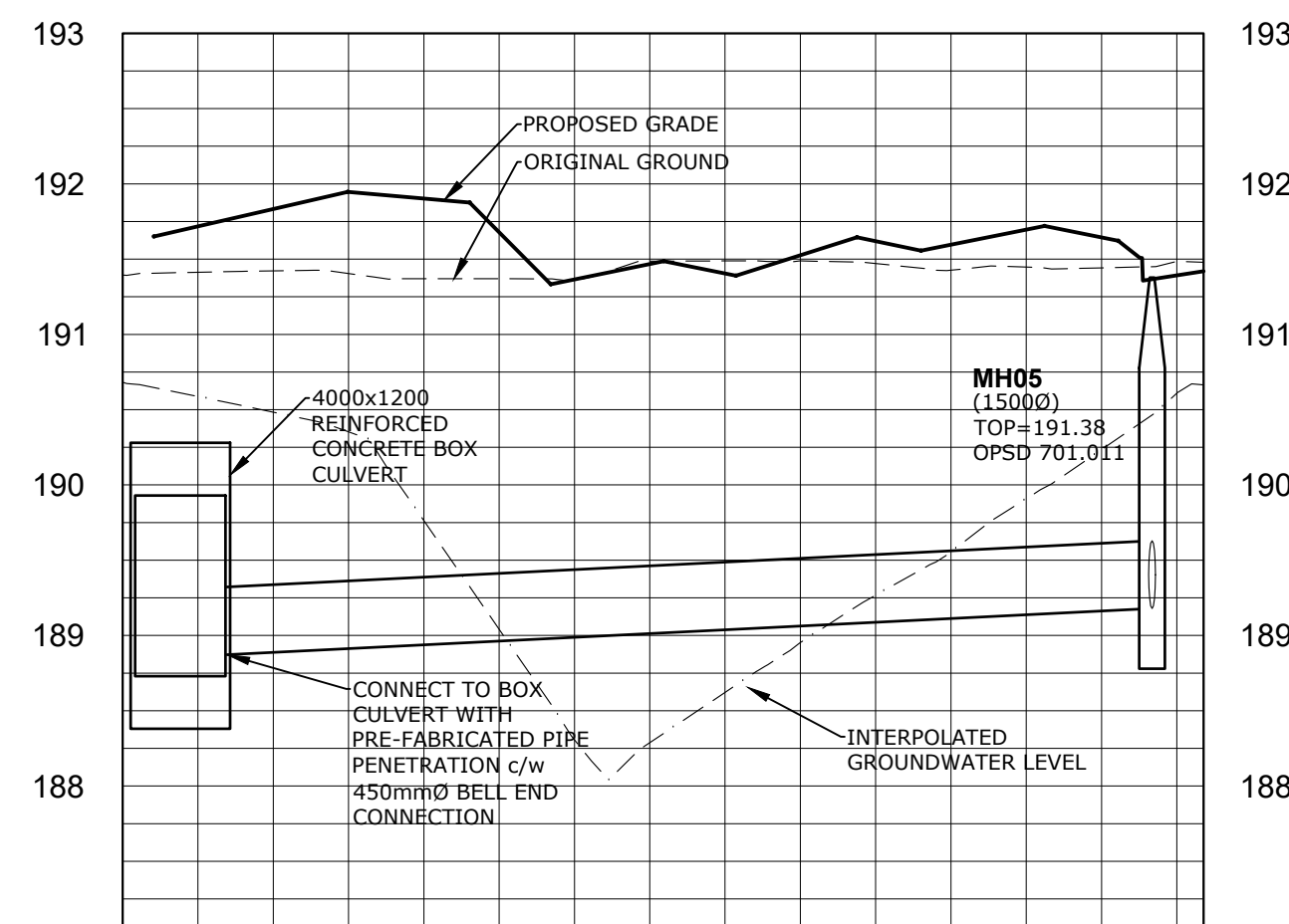
Drawing No.
C14



LEGEND

NOTES:

1. RESTORATION REQUIRED TO MEET TOWN OF COLINGWOOD ADJACENT TO SUBJECT SITE TO MEET TOWN OF COLINGWOOD ENGINEERING STANDARDS.
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7. ALL CONNECTIONS TO TOWN OWNED WATER INFRASTRUCTURE TO BE COMPLETED BY TOWN WATER DEPARTMENT AT THE EXPENSE OF THE OWNER.



ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

PER

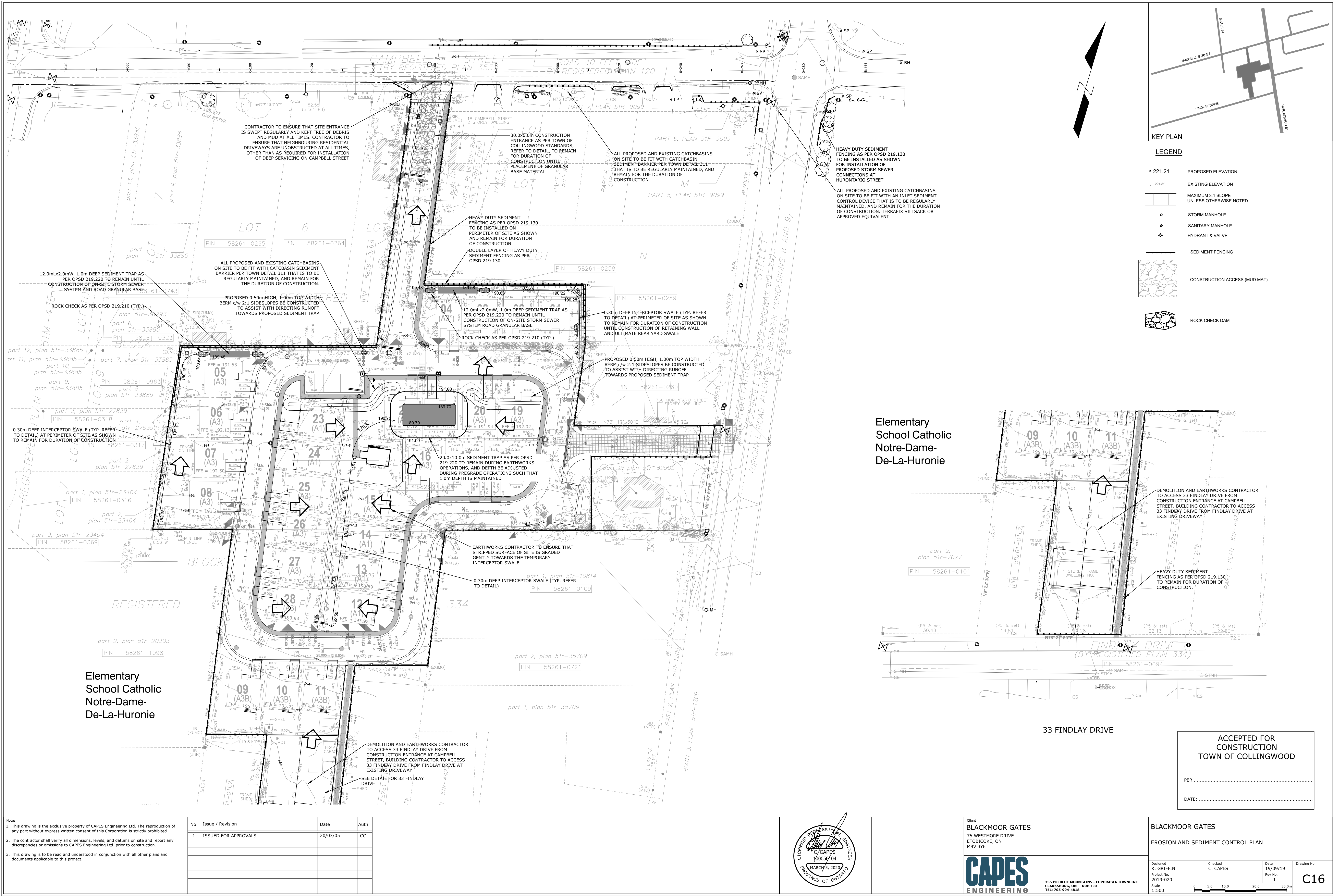
DATE:

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CAPE
ENGINEERING

Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19
Project No. 2019-020		Rev No. 1
Scale H 1:500 V 1:50		

C15



ESC NOTES

SEEDING

1. AREAS OF SITE LEFT UNSTABLE FOR MORE THAN 30 DAYS TO BE STABILIZED WITH ACCEPTABLE GROUND COVER
2. OPTIONS: BLOWER TRUCK APPLICATION OF MEDIA/SEED/MULCH MIX, HYDROSEEDING, MECHANICAL OR BROADCAST; SPECIES TO BE APPROVED BY TOWN OF SAUGEEN SHORES, IN ACCORDANCE WITH LANDSCAPING PLANS
3. SEEDING IDEALLY APPLIED BETWEEN APRIL 15 & MAY 30 OR AUGUST 15 & SEPTEMBER 30.
4. BARE SOIL TO BE PROPERLY SCARIFIED TO PREPARE FOR PLANTING IF SOIL HAS BEEN CRUSTED OVER OR COMPACTED.
5. MINIMUM 75mm OF TOPSOIL APPLIED TO ALL AREAS SUBJECT TO PERMANENT LANDSCAPING.
6. TREAD TRACKING/CAT TRACKING METHOD TO BE USED FOR SEEDING ON SLOPES > 3:1.
7. SEED COVERED WITH EROSION CONTROL MATS/BLANKETS/MATTING AS NEEDED FOR SLOPES > 2:1.
8. AREAS THAT DO NOT SHOW GROWTH WITHIN 14 DAYS TO BE RE-SEEDED.
9. MULCH APPLIED AFTER OR WITH SEED.

SODDING

10. SOD TO BE LAID IN STRAIGHT LINES, PERPENDICULAR TO SLOPING.
11. PIECES OF SOD TIGHTLY BUTTED TOGETHER BUT WITHOUT OVERLAPPING OR STRETCHING.
12. INSTALLED IN A BRICK-WORK TYPE PATTERN WITH STAGGERING OF JOINTS IN ADJACENT ROWS.
13. SOD TO BE NOTCHED INTO EXISTING GRASS.
14. SOD TO BE ANCHORED IN PLACE IF INSTALLED ON SLOPES > 3:1.
15. SOD TO BE ADEQUATELY IRRIGATED POST INSTALLATION.
16. SOD TO BE INSTALLED DURING PROPER WEATHER CONDITIONS.

RIP-RAP

17. GEOTEXTILE FABRIC LINER TO BE INSTALLED UNDER RIP RAP.

ROLLED EROSION CONTROL PRODUCTS

18. STRIPS INSTALLED PARALLEL TO FLOW IN SWALES OR CONVEYANCE CHANNELS.
19. STRIPS INSTALLED UP AND DOWN A HILL (VERTICALLY) FOR LONG SLOPES (DOES NOT INCLUDE WATERCOURSE BANKS).
20. BLANKETS OVERLAPPING 20cm ON SIDES, TOPS AND BOTTOMS.
21. BLANKETS NOT TO BE STRETCHED.
22. MAXIMUM SLOPE ON WHICH PRODUCT IS USED BASED ON MANUFACTURER'S SPECIFICATIONS.
23. CONTINUOUS CONTACT WITH SOIL SURFACE AND NO TENTING.
24. ANCHORED WITH SUFFICIENT QUANTITY OF WOODEN OR BIODEGRADABLE STAKES OR METAL STAPLES, SPACED AS SPECIFIED IN MANUFACTURER

RECOMMENDATIONS.

25. FIRMLY ANCHORED AT TOP AND BOTTOM, WITH ANCHOR TRENCH AT THE BOTTOM.

GROWTH MEDIA EROSION CONTROL BLANKETS

26. APPLIED AT A DEPTH OF 25-100mm.
27. >50mm THICKNESS APPLIED FOR SLOPES > 2:1.
28. 75-100mm APPLIED FOR SLOPES 1:1 OR GREATER.
29. OVERLAPPED 1-3m AT THE TOP OF THE SLOPE TO WHICH THE BLANKET IS APPLIED.

VEGETATIVE BUFFER STRIPS

30. >30m WIDE AND ADJACENT TO WATERCOURSES.

INTERCEPTOR SWALE AND DIVERSION DIKE

31. SWALE MINIMUM 300mm DEEP AND 600mm WIDE.
32. BOTH SWALES AND DIKE SIDE SLOPES CONSTRUCTED TO BE 3:1 OR LESS.
33. STABILIZED BY SEEDING OR RIP RAP, ESPECIALLY AT INLET AND OUTLET.
34. IMMEDIATE STABILIZATION MANDATORY FOR SWALES/DIKES AND IMMEDIATELY FOLLOWING A STORM EVENT. SWALES TO BE STABILIZED WITH SEEDING OPERATIONS AND RIP-RAP TREATMENT AS REQUIRED.
35. FLOW VELOCITIES IN THE SWALE REDUCED WITH FLOW INTERRUPTION DEVICES.

CHECK DAMS

36. CENTRE HEIGHT < 1.0m; CENTRE NOTCHED APPROXIMATELY 150mm, INCLUDING SPILLWAY.
37. ROCK PILED WITH A MAXIMUM UPSTREAM SLOPE OF 2:1 AND MAXIMUM DOWNSTREAM SLOPE OF 4:1.
38. SIDES OF DAM PILED UP THE DITCH SLOPE AT LEAST 0.5m HIGHER THAN THE CENTRE OF THE DAM.
39. FOR DAMS USED IN SERIES IN A SWALE OR CHANNEL, HEIGHT OF SUBSEQUENT CHECK DAMS MUST BE EQUAL TO THE ELEVATION OF THE BASE OF THE PREVIOUS DAM.
40. CONSTRUCTED WITH 3 LAYERS; BOTTOM LAYER CONSISTING OF 450mm OF 5cm DIA. STONE, MIDDLE LAYER NON-WOVEN GEOTEXTILE FABRIC, AND TOP LAYER CONSISTING OF 100cm OF 15cm DIA. STONE.
41. CHECK DAM SPILLWAY WIDTH APPROXIMATELY THE SAME WIDTH AS THE DITCH BOTTOM.
42. STONES PLACED UP THE SIDES OF THE DITCH ABOVE THE ELEVATION ON THE SPILLWAY TO PREVENT WASHOUTS.
43. STONE SIZE OF 5-10cm FOR DITCH GRADES LESS THAN 2% AND 7-30cm FOR DITCH GRADES 2% AND GREATER.
44. INSTALLED DOWNSTREAM OF SEDIMENT TRAPS.

SILT FENCING

45. TRENCHED IN AT LEAST 150mm.
46. STAKES INSTALLED ON DOWNSLOPE SIDE.

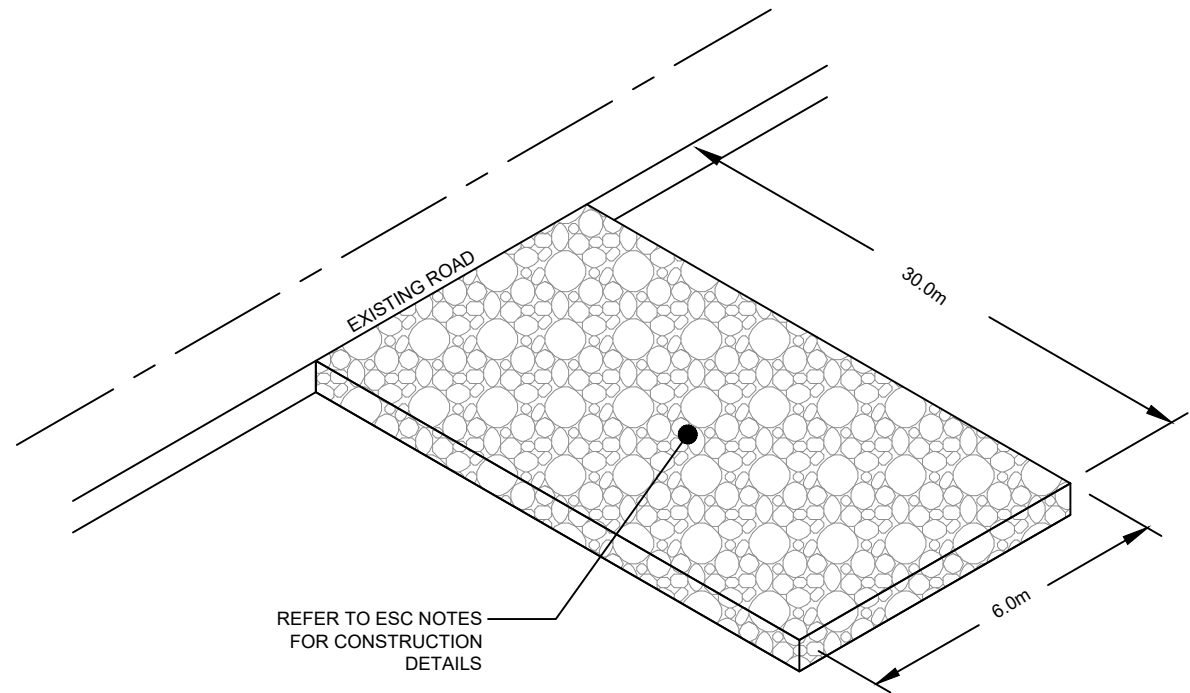
47. MAXIMUM 2.0m BETWEEN POSTS FOR HEAVY-DUTY FENCES AND 2.3m FOR LIGHT-DUTY.
48. ENDS TURNED UP SLOPE WHERE POSSIBLE.
49. FABRIC IS NON-WOVEN SYNTHETIC FABRIC MATERIAL (WITH A WEAVE DENSITY OF 270R OR EQUIVALENT) STRETCHED ACROSS AND ATTACHED TO SUPPORTING POST AND WIRE FENCE.
50. FABRIC TAUGHT BETWEEN POSTS.
51. STRUCTURAL FENCING USED TO BACK THE SILT FENCE.
52. POSITIONED ON A LEVEL CONTOUR RATHER THAN UP AND DOWN SLOPES.
53. NO GAPS, 2.0m MINIMUM OVERLAP OF NEW CLOTH SECTIONS.
54. POSITIONED TO RECEIVE ONLY MODERATE SHEET FLOWS, NOT CONCENTRATED FLOWS.
55. TOE COMPACTED AS MUCH AS POSSIBLE TO AVOID USE OF STONE PLACEMENT.

SEDIMENT TRAPS

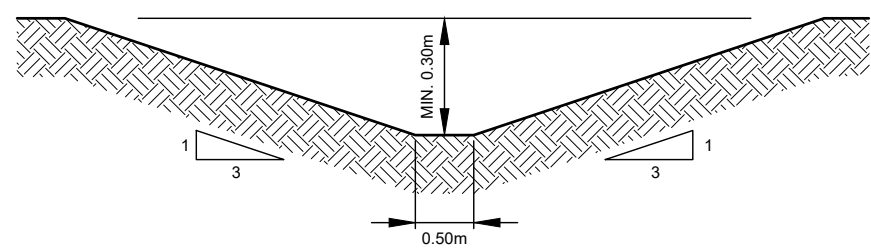
56. 125m³ STORAGE PER HECTARE OF DRAINAGE AREA MINIMUM.
57. SEDIMENT TRAPS CAN BE USED TO TREAT UP TO 2 HECTARES OF DISTURBED AREA.
58. STABILIZED EMBANKMENTS.
59. LOCATED IN A FLAT LAND AREA, AWAY FROM WATERCOURSES AND WETLANDS.

MUD MAT/CONSTRUCTION ENTRANCE

60. STONE PAD TO BE MINIMUM 450mm THICK, 30m LONG AND 6.0m WIDE.
61. THE FIRST 15m FROM THE ENTRANCE SHALL BE CONSTRUCTED OF 50mm CLEAR STONE.
62. THE REMAINING 15m SHALL BE CONSTRUCTED WITH 150mm RIP RAP.
63. PAD UNDERLAIN WITH A GEOTEXTILE (OR GRADED AGGREGATE FILTER).
64. CLEAR/REPLACE/MAINTAIN AS REQUIRED DURING CONSTRUCTION.



MUD MAT -
CONSTRUCTION ACCESS
N.T.S.



NOTES:

1. TEMPORARY SWALES WITH GRADES UP TO 3.0% TO BE LINED WITH NORTH AMERICAN GREEN S150 TEMPORARY TURF REINFORCEMENT MAT.
2. TEMPORARY SWALE WITH GRADES GREATER THAN 3.0% TO BE LINED WITH NORTH AMERICAN GREEN C125 TEMPORARY TURF REINFORCEMENT MAT

INTERCEPTOR SWALE - 3:1 SIDE SLOPES
N.T.S.

ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

PER

DATE:

Notes

1. This drawing is the exclusive property of CAPES Engineering Ltd. The reproduction of any part without express written consent of this Corporation is strictly prohibited.
2. The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to CAPES Engineering Ltd. prior to construction.
3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

No	Issue / Revision	Date	Auth
1	ISSUED FOR APPROVALS	20/03/05	CC



Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6

CAPES
ENGINEERING

355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE
CLARKSBURG, ON N0M 1JX
TEL: 705-994-4818

BLACKMOOR GATES

EROSION AND SEDIMENT CONTROL DETAILS

Designed K. GRIFFIN	Checked C. CAPES	Date 19/12/09	Drawing No.
Project No. 2019-020	Rev No. 1	Rev No. 1	C17
Scale 1:500	0 5.0 10.0 20.0 30.0m		

GENERAL - CONSTRUCTION

A) ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF COLLINGWOOD STANDARDS, O.P.S.D. AND O.P.S.S. WHERE CONFLICT OCCURS, TOWN OF COLLINGWOOD STANDARD TO GOVERN.

B) TRENCH BACKFILL (OPSD 802.00X AS APPLICABLE) TO BE SELECT NATIVE MATERIAL OR IMPORTED SELECT SUBGRADE TO OPSD 1010. BACKFILL TO BE PLACED IN MAXIMUM 200 mm THICK LIFTS AND COMPACTED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).

C) PIPE BEDDING TO BE GRANULAR 'B' PIPE COVER TO BE GRANULAR 'B' MAX. AGGREGATE SIZE 25mm FOR RIGID PIPE AND GRANULAR 'A' FOR FLEXIBLE PIPE. (MINIMUM BEDDING DEPTH 150 mm, MINIMUM COVER 300mm, COMPACTED TO A MINIMUM 95% SPMDD).

D) CLEAR STONE WRAPPED IN FILTER FABRIC CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE ENGINEER.

E) ALL MAINTENANCE HOLES ARE 1200 mm DIAMETER UNLESS OTHERWISE SPECIFIED.

F) ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY ENGINEER.

G) THE OWNER'S ENGINEER SHALL PROVIDE BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT REFERENCE FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.

H) ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.

I) ALL MAINTENANCE HOLE AND CATCHBASIN FRAMES AND COVERS TO BE SET TO BASE COURSE HLB ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF FINAL COURSE HLB ASPHALT TO THE SATISFACTION OF THE TOWN.

J) THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.

K) Dewatering TO BE CARRIED OUT IN ACCORDANCE WITH OPSD-517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR RESPONSIBLE FOR OBTAINING M.O.E. PERMIT IF REQUIRED.

L) ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.

M) DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.

N) THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EXISTING FACILITIES AS WELL AS ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.

NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED BASE ASPHALT TYPE	EDH	JUL/04		DRAWN:	SCALE: N/A
				GENERAL - CONSTRUCTION NOTES	STD. No.	122

WATER MAINS

A) BEDDING AND COVER TO OPSD-802.010, GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.

B) TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.

C) THRUST BLOCKS TO OPSD-1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.

D) SERVICE CONNECTIONS TO OPSD-1104.010, 100 mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT PROPERTY LINE AT CENTER OF LOT C/W CURB STOP AND BOX, TESTING TAIL TO SURFACE ATTACHED TO A 38mm x 89mm MARKER POST PAINTED BLUE.

E) HYDRANTS TO OPSD-1105.010, DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.

F) BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).

G) MINIMUM COVER ON WATER MAIN AND SERVICES TO BE 1.7 m.

H) GATE VALVES, BONDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROMAX GRP RING RESTRAINING CLAMP.

I) CLEARANCE BETWEEN WATER MAINS AND SEWERS TO BE A MINIMUM OF 0.5m VERTICAL, WHERE WATER MAIN IS BELOW SEWER OR 2.5 m MINIMUM HORIZONTAL SEPARATION, WHERE WATER MAIN IS ABOVE SEWER, THE MINIMUM SEPARATION TO BE 150 mm (BEDDING MATERIAL).

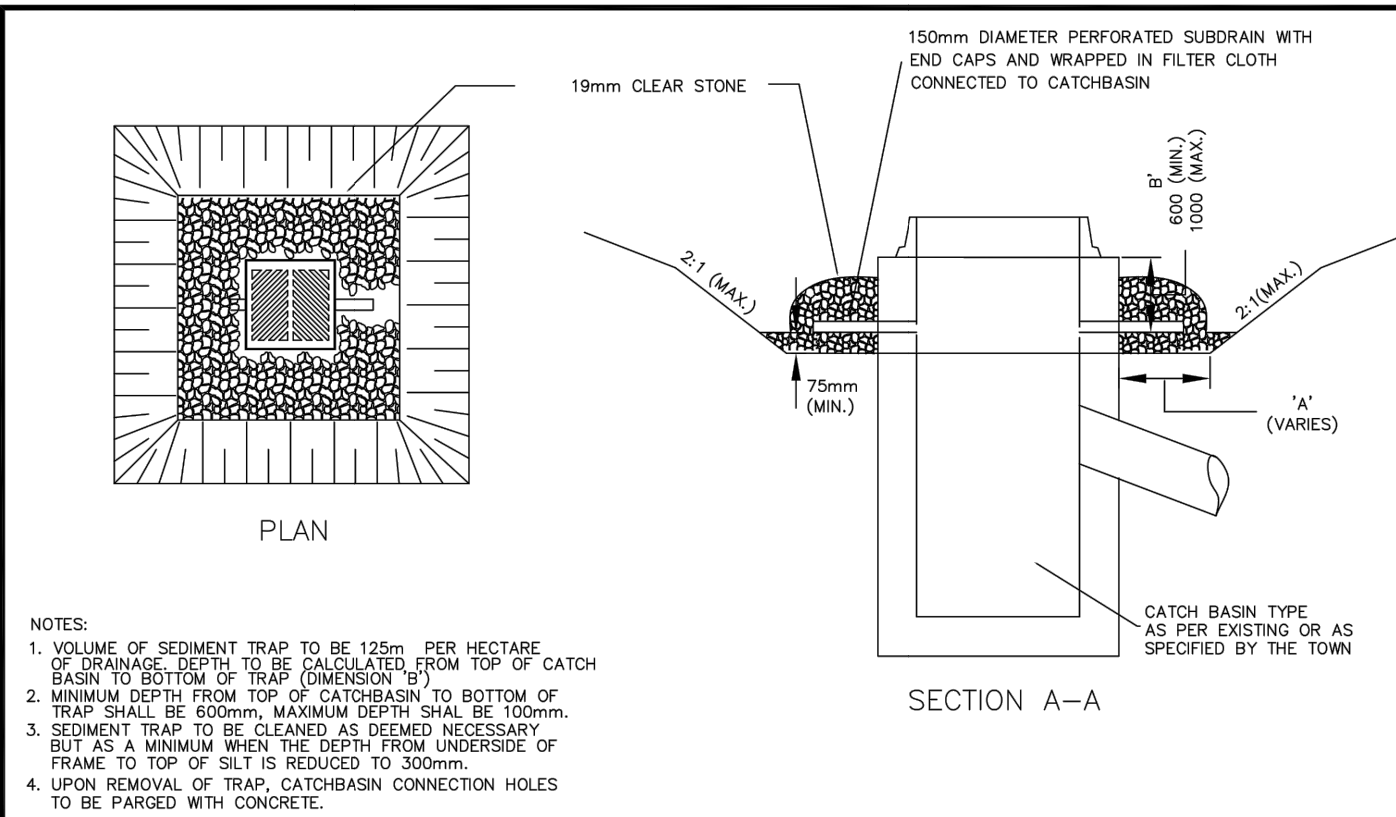
J) SERVICE TO OPSD - 1104.010 AND SHALL BE DIRECT TAP.

K) FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE SATISFACTION OF THE ENGINEER.

L) GENERAL INSTALLATION AND TESTING OF WATER MAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH O.P.S.S. 701 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.

M) ALL WATERMAIN TESTING AND CHLORINATION WILL BE CONDUCTED BY CPU AT THE DEVELOPER'S COST. IT SHOULD BE NOTED THAT NEW WATERMANS ARE NOT TO BE CONNECTED TO EXISTING WATERMANS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED.

NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				NOTES - WATER MAINS	STD. No.	125



NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				CATCH BASIN SEDIMENT TRAP	STD. No.	310

STORM SEWERS

A) M.H.'S TO OPSD-701.00X AS APPROPRIATE) C/W SUMP UNLESS NOTED OTHERWISE.

B) STEPS TO OPSD 405.010.

C) M.H. FRAMES AND GRATES TO OPSD-401.01 OPEN COVER.

D) C.B.'S TO OPSD - 705.010, 705.020

E) DICB'S TO OPSD - 705.030, 705.040, 706.010, 706.020, 706.030, 706.040

F) C.B. AND CBMH FRAMES AND GRATES TO OPSD - 400.020 AND REAR LOT 400.120.

G) PIPE SUPPORT AT M.H.'S, CB'S AND CBMH'S TO OPSD - 708.020.

H) C.B. LEADS - 250mm DIA SINGLE AND 300mm DIA DOUBLE TO OPSD - 708.010, 708.030.

I) PROTECTION DURING CONSTRUCTION TO OPSD - 808.010.

J) BEDDING AND COVER TO OPSD - 802.010. (FLEXIBLE PIPE) GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL OR OPSD - 802.030, 802.031 AND 802.032 (RIGID PIPE) GRANULAR 'A' BEDDING AND GRANULAR 'B' (MAXIMUM AGGREGATE SIZE 25mm) COVER.

K) TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.

L) BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.

M) WHERE RESIDENTIAL STORM SEWER CONNECTIONS ARE REQUIRED, THE STORM SEWER SHALL BE OVERSIZED.

N) SERVICE CONNECTION TO TOWN STD. 530 100mm, GRANULAR 'A' EMBEDMENT, TERMINATE AT PROPERTY LINE 1.0m RIGHT OF SANITARY SERVICE (FACING LOT) c/w A CAP/PLUG AND A 38mm x 89mm MARKER STAKE PAINTED WHITE.

NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	ADDED RESIDENTIAL STORM CONNECTION	EDH	JUL/04		DRAWN:	SCALE: N/A
				NOTES - STORM SEWERS	STD. No.	123

ROADS

A) SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B'.

B) GRANULAR 'A' AND 'B' BASE TO BE COMPACTED TO 100% OF THE MATERIAL'S RESPECTIVE SPMDD.

C) ROADWAYS TO BE CONSTRUCTED WITH MIN. 300mm GRANULAR 'B' TYPE 'A', 150 mm GRANULAR 'A', AND 50 mm HLB BASE 40 mm HLB SURFACE COURSE ASPHALT. ALL SUBDRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSD 405.

D) SELECT SUBGRADE MATERIAL OR IMPORTED GRANULAR MATERIAL APPROVED BY THE ENGINEER, COMPACTED TO 98% S.P.M.D.D. TO BE USED AS FILL IN ALL AREAS WHERE PROPOSED PIPE INVERTS ARE HIGHER THAN EXISTING GRADE OR AS INSTRUCTED BY THE ENGINEER.

E) ALL GRANULARS AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSD 314 AND OPSD 310

F) JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.

G) STOP SIGNS AND STREET SIGNS TO TOWN STANDARDS.

H) REINSTATEMENT OF ALL DISTURBED BOULEVARDS TO INCLUDE REGRADING, 100mm TOPSOIL AND 500 TO OPSD 570 AND 571.

I) CONCRETE CURB AND GUTTER TO OPSD 600.040 OR OPSD 600.070 AND OPSD 353

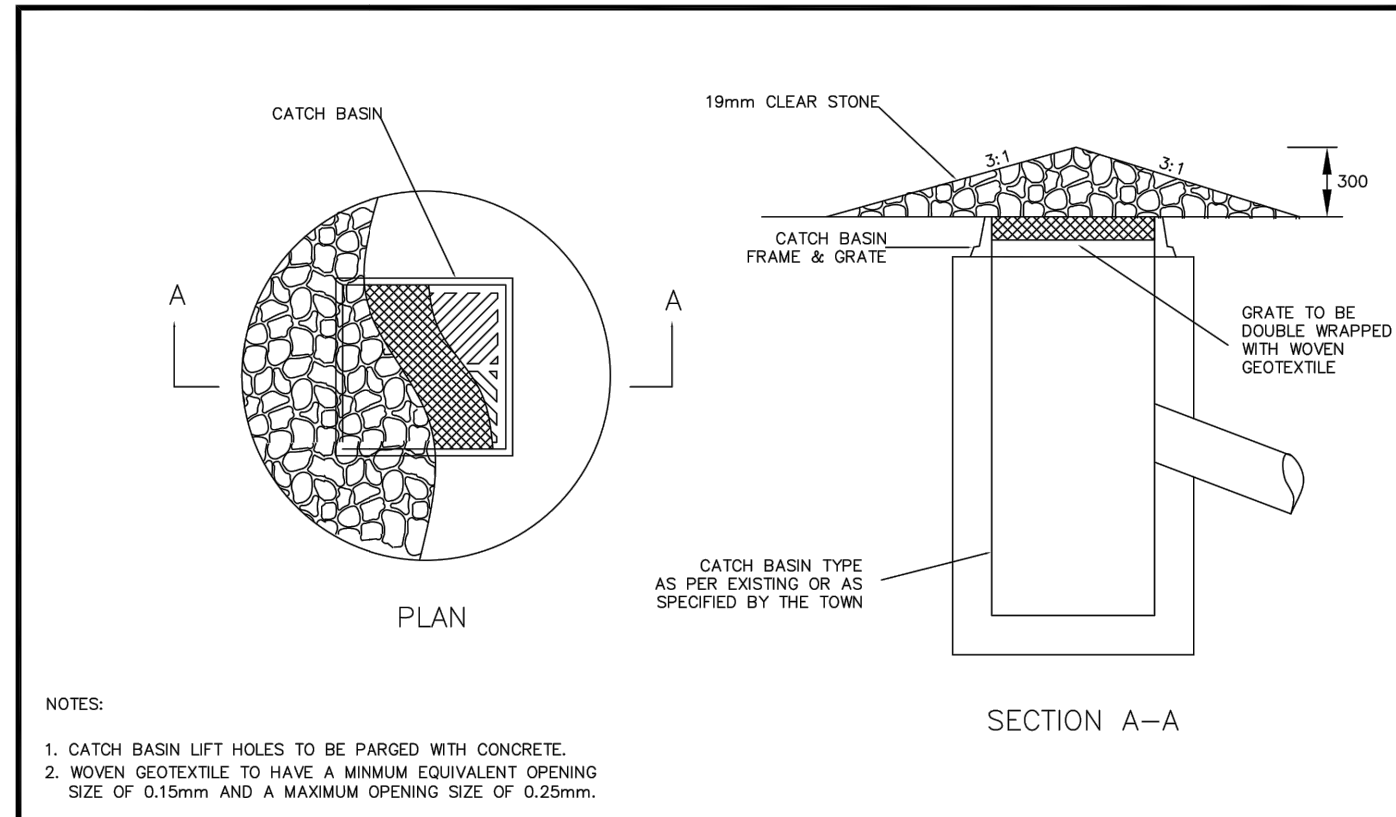
J) CONCRETE SIDEWALK TO OPSD 310.010, 310.030 AND OPSD 351. SUBBASE TO CONSIST OF MINIMUM 150 mm OF GRANULAR 'A'.

K) 100 mm DIAMETER PIPE SUBDRAINS SHALL BE PROVIDED AS PER STANDARD 210 ON BOTH SIDES OF THE ROAD.

L) SUBDRAIN TO BE INSTALLED 200 mm BELOW CURB IN GRANULAR 'A' TRENCH AND CONNECTED TO EACH CB OR CBMH.

M) SUBDRAINS TO BE PERFORATED OTHER THAN THE 2 m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.

NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	ADDED STORM SEWER CONNECTION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	ADDED HYDRANT LENGTH	EDH	APR/07			
				NOTES - ROADS	STD. No.	126



NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				CATCH BASIN SEDIMENT BARRIER	STD. No.	311

SANITARY SEWERS

A) M.H.'S TO OPSD-701.00X AS APPROPRIATE.

B) BENCHMARKING TO OPSD - 701.021. NOTE: MINIMUM HOLE SIZE 1 WALL IF PRE-CAST RISER SECTION SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS.

C) STEPS TO OPSD - 405.010.

D) FROST STRIPS SHALL BE INSTALLED ON ALL MAINTENANCE HOLE AS PER OPSD - 701.100

E) BEDDING AND COVER TO OPSD - 802.010 (FLEXIBLE PIPE), GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.

F) TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.

G) FRAMES AND COVERS TO OPSD - 401.01 TYPE 'A' (CLOSED COVER).

H) SERVICE CONNECTIONS TO OPSD-1006.020 (125 mm), GRANULAR 'A' EMBEDMENT, TERMINATE AT THE PROPERTY LINE 2.5m RIGHT OF WATER SERVICE (FACING LOT) WITH A 125 x 100 REDUCER C/W PLUG AND 38mm x 89mm MARKER POST PAINTED GREEN. MINIMUM GRADE TO BE 2.0%.

I) RADIUS BENDS TO BE USED ON SANITARY SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.

J) BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).

K) CLEAR STONE WRAPPED WITH FILTER FABRIC CAN BE SUBSTITUTED FOR EMBEDMENT MATERIAL IF APPROVED BY THE ENGINEER.

L) MAINTENANCE HOLE FRAMES TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISED PRIOR TO PLACING SURFACE COURSE ASPHALT TO THE SATISFACTION OF THE TOWN.

M) PIPE SUPPORT AT MAINTENANCE HOLES AS PER OPSD 708.020.

N) ALL MAINTENANCE HOLES, UNLESS EXPRESSLY IDENTIFIED ARE 1200 mm DIAMETER.

O) GENERAL INSTALLATION AND TESTING OF SEWERS AND APPURTENANCES TO BE IN ACCORDANCE WITH O.P.S.S. 407, 408, 409 (CCTV), 410, 421 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.

NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REMOVED TEST FITTING	EDH	APR/07			
				NOTES - SANITARY SEWERS	STD. No.	124

MATERIALS

A) SANITARY SEWER - SDR 35 PVC (INCREASE SPECIFICATION WHERE INSTALLATION DICTATES)

B) SANITARY SERVICES - SDR 26 PVC - 125 mm COLOUR GREEN (USING TEE CONNECTIONS TO MAINS UNLESS SHOWN OTHERWISE).

C) WATER MAIN - DUCTILE IRON CLASS 52, OR PRESSURE CLASS 350 CEMENT LINED. CONDUCTIVITY CONNECTIONS TO BE USED ON ALL JOINTS.

D) WATER MAIN SERVICES - 200mm DIAMETER TYPE 'K' SOFT COPPER PIPE.

E) MAIN STOPS TO 201-A315, 3/4" BALL STYLE, ANNA THREAD BY COMPRESSION CAMBRIDGE BRASS.

F) CURB STOPS TO 203-H315, 3/4", BALL STYLE WITH DRAL COMPRESSION JOINT BY CAMBRIDGE BRASS.

G) SERVICE BOXES TO NUMBER 1, 0-1 CLOW OR MUELLER, 2" BLACK ROSS STRAIGHT.

H) HYDRANTS - CENTURY NUMBER 1, OPEN LEFT (L/R), 2 HOSE CSA, 339 PUMPER PORT, 6" 1/2 BASE, DRAGON, YELLOW BASE WITH SILVER BONNET AND PORTS

I) HYDRANT ACCESSORIES - MARKER'S FLEX STAKE MODEL FIV 804, REFLECTIVE HYDRANT DECAL, YELLOW, 48" LENGTH, ANTI TAMPER DEVICE FOR CENTURY HYDRANTS, BLUE

J) VALVES - RESILIENT SEATED, RS0V, MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5 SL-48 SLIDING VALVE BOX.

K) MECHANICAL JOINT DUCTILE FITTINGS - ANNA/ANSI C153/A21.53

L) RESTRAINER-ROLMAC GRIPPER RING UP TO 300mm, SIGMA ONE LOCK RESTRAINING GLANDS OVER 300mm.

M) LIVE TAP SADDLES - EPOXY COATED C/W STAINLESS STEEL BOLTS.

N) FILTER FABRIC - TERRAFIX 270R OR APPROVED EQUAL.

O) PERFORATED SUBDRAINS - 100mm BIG 'O' WITH GEOTEXTILE FILTER SOCK OR APPROVED EQUAL.

P) STORM SEWER - PVC SDR35, CONCRETE CLASS II OR HOPE OPEN PROFILE BELL & SPIGOT (BOSS 2000 AND MIN. PIPE STIFFNESS=320kpa OR EQUAL).

Q) STORM SEWER CONNECTION PVC SDR28 - 100mm COLOUR WHITE

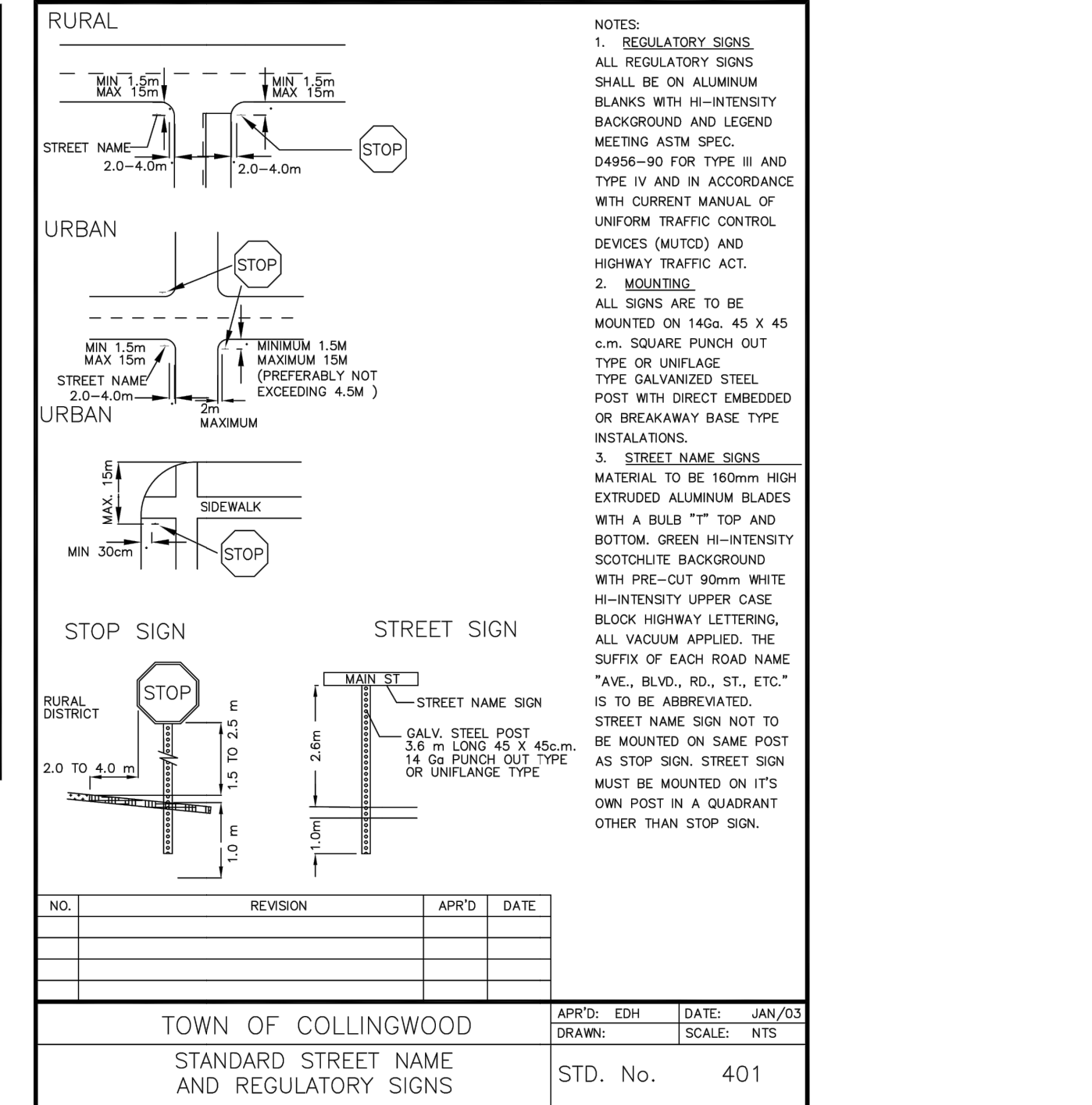
R) CULVERTS - SMOOTH WALL HOPE (MIN. PIPE STIFFNESS = 320kpa) OR CORRUGATED METAL PIPE (MIN. THICKNESS = 2.0 mm)

S) R/P-RAP TO OPSD 1004.05.06

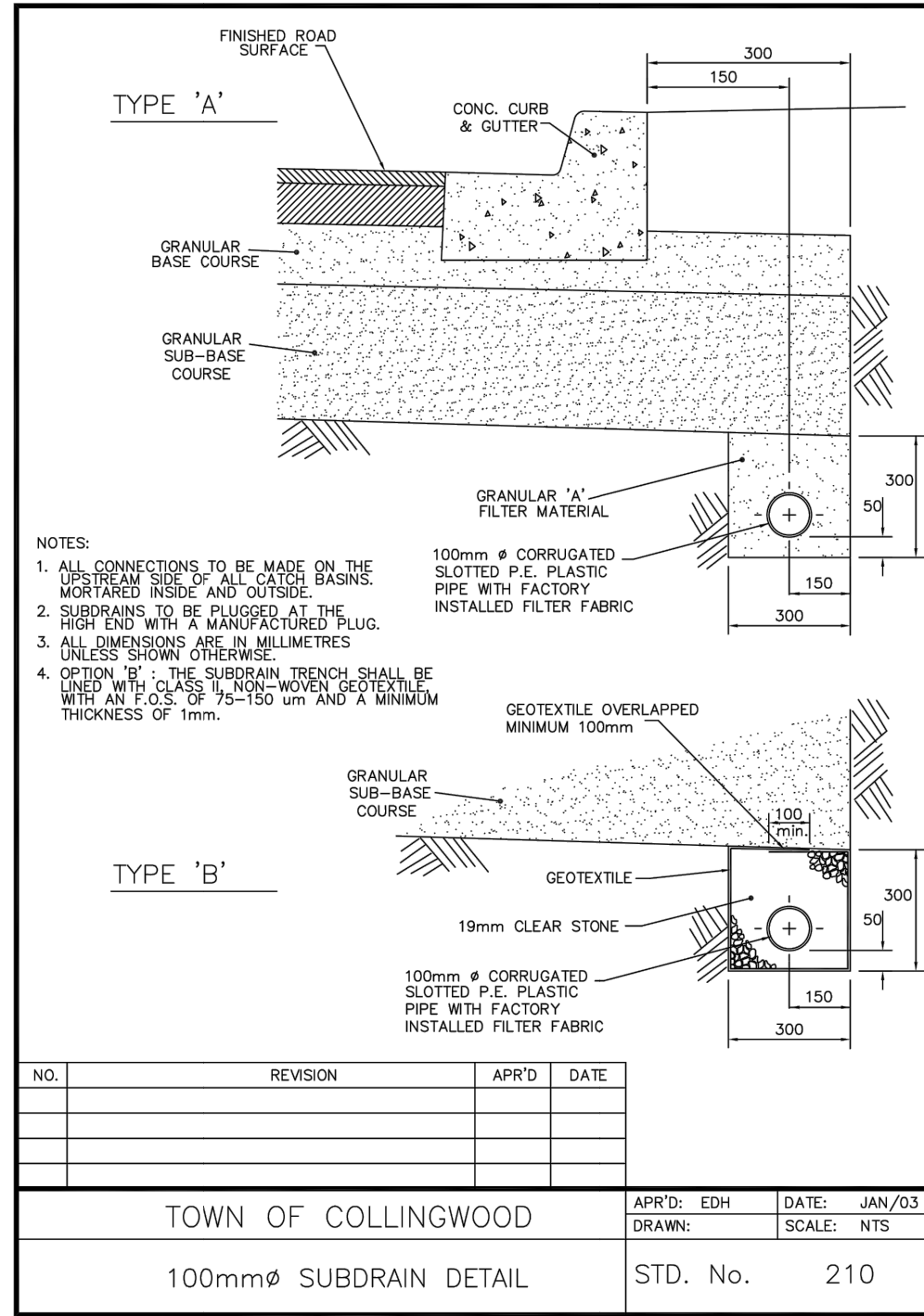
T) ALL SPECIFIED AGGREGATES TO OPSD 1010.

U) HYDRANTS ARE TO BE 1.85m LONG. EXTENSIONS IF REQUIRED ARE TO BE INSTALLED BELOW THE 1.85m SECTION.

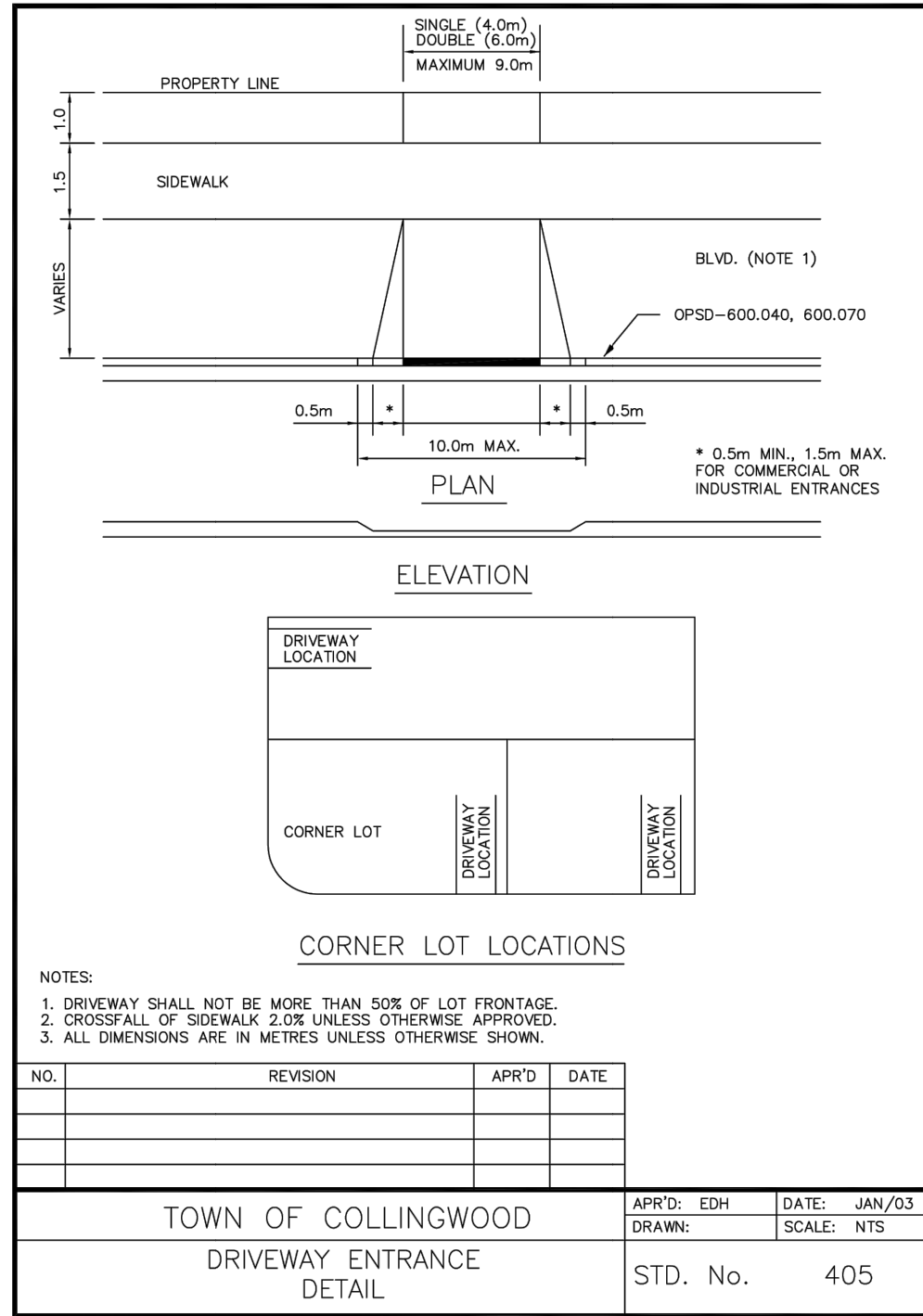
NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	ADDED STORM SEWER CONNECTION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	ADDED HYDRANT LENGTH	EDH	APR/07			
				NOTES - MATERIALS	STD. No.	127



NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				STANDARD STREET NAME AND REGULATORY SIGNS	STD. No.	401



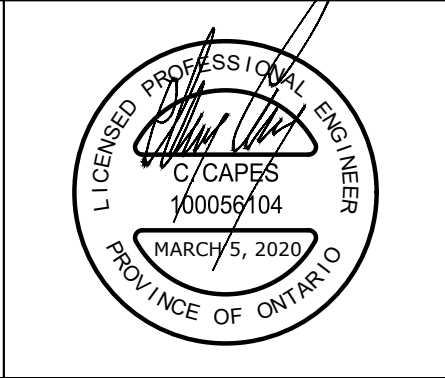
NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				100mm SUBDRAIN DETAIL	STD. No.	210



NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				DRIVEWAY ENTRANCE DETAIL	STD. No.	405

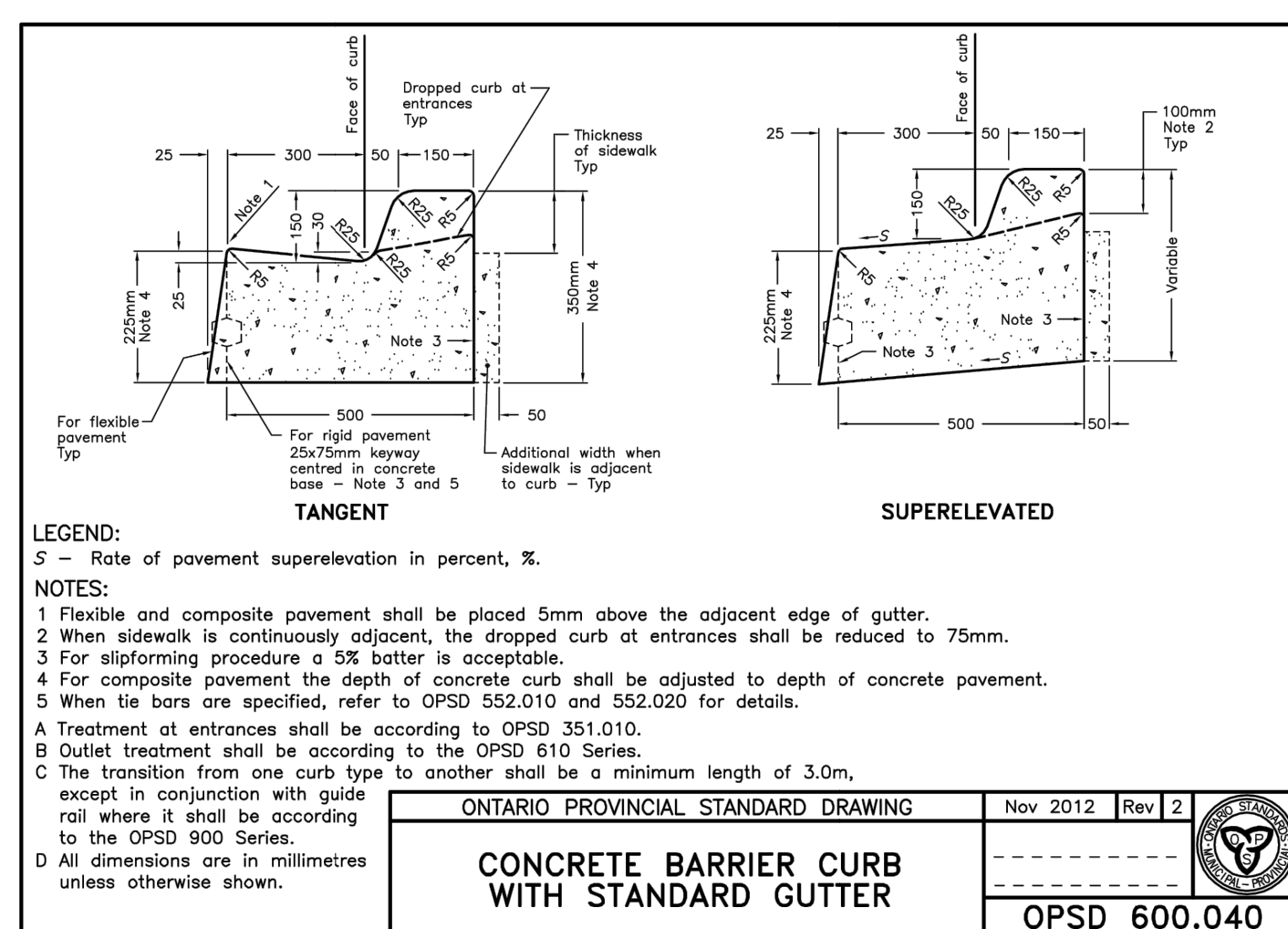
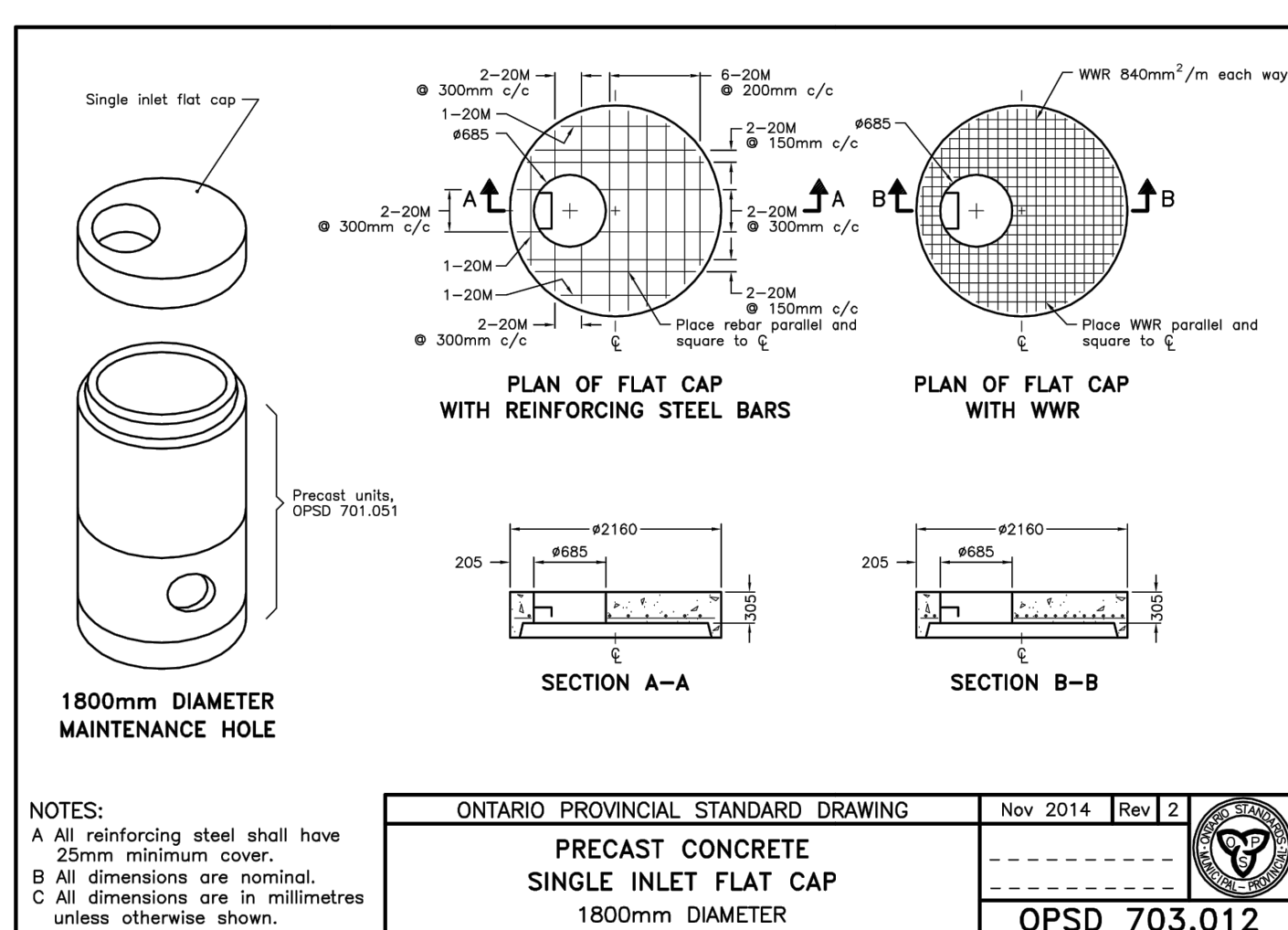
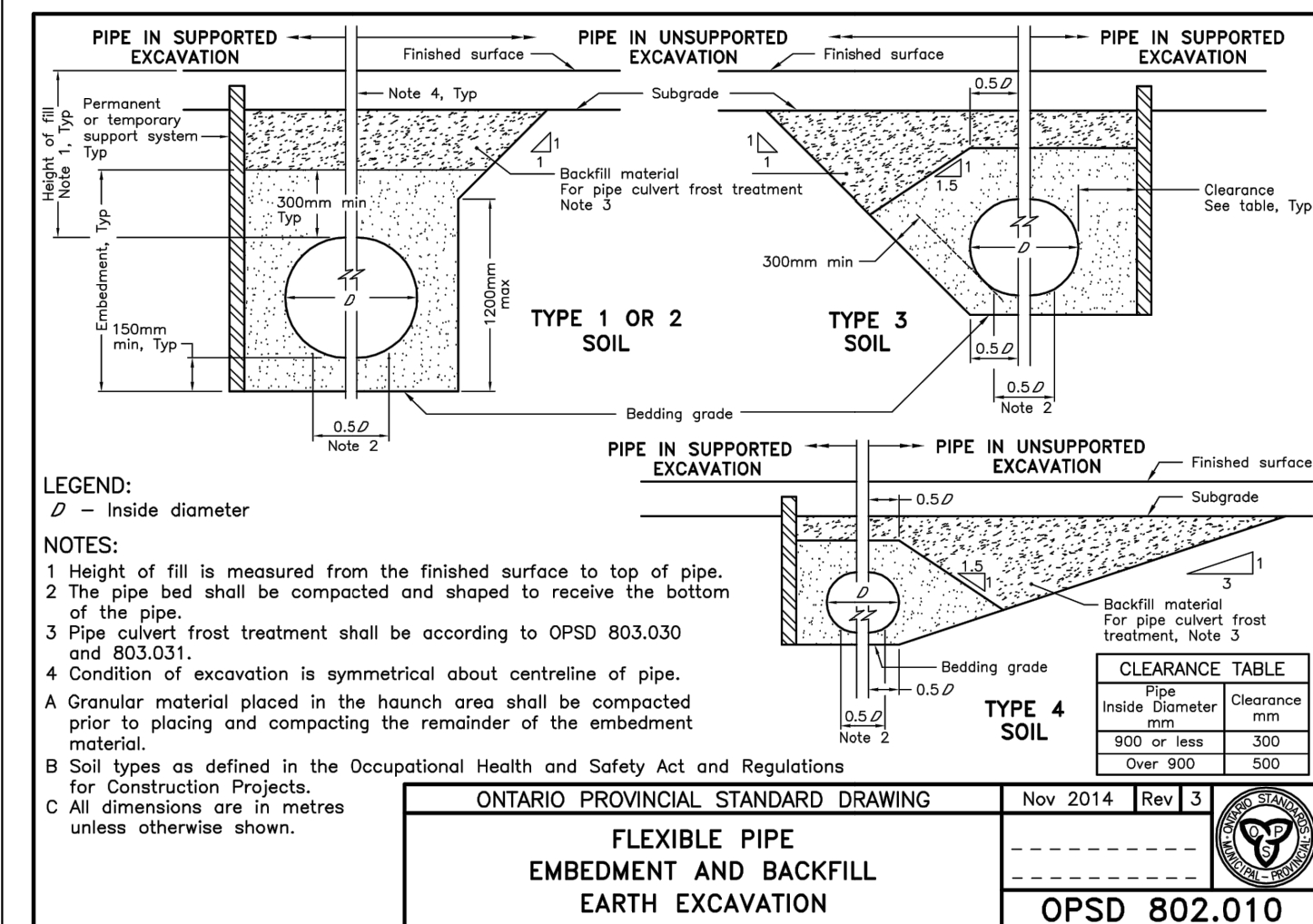
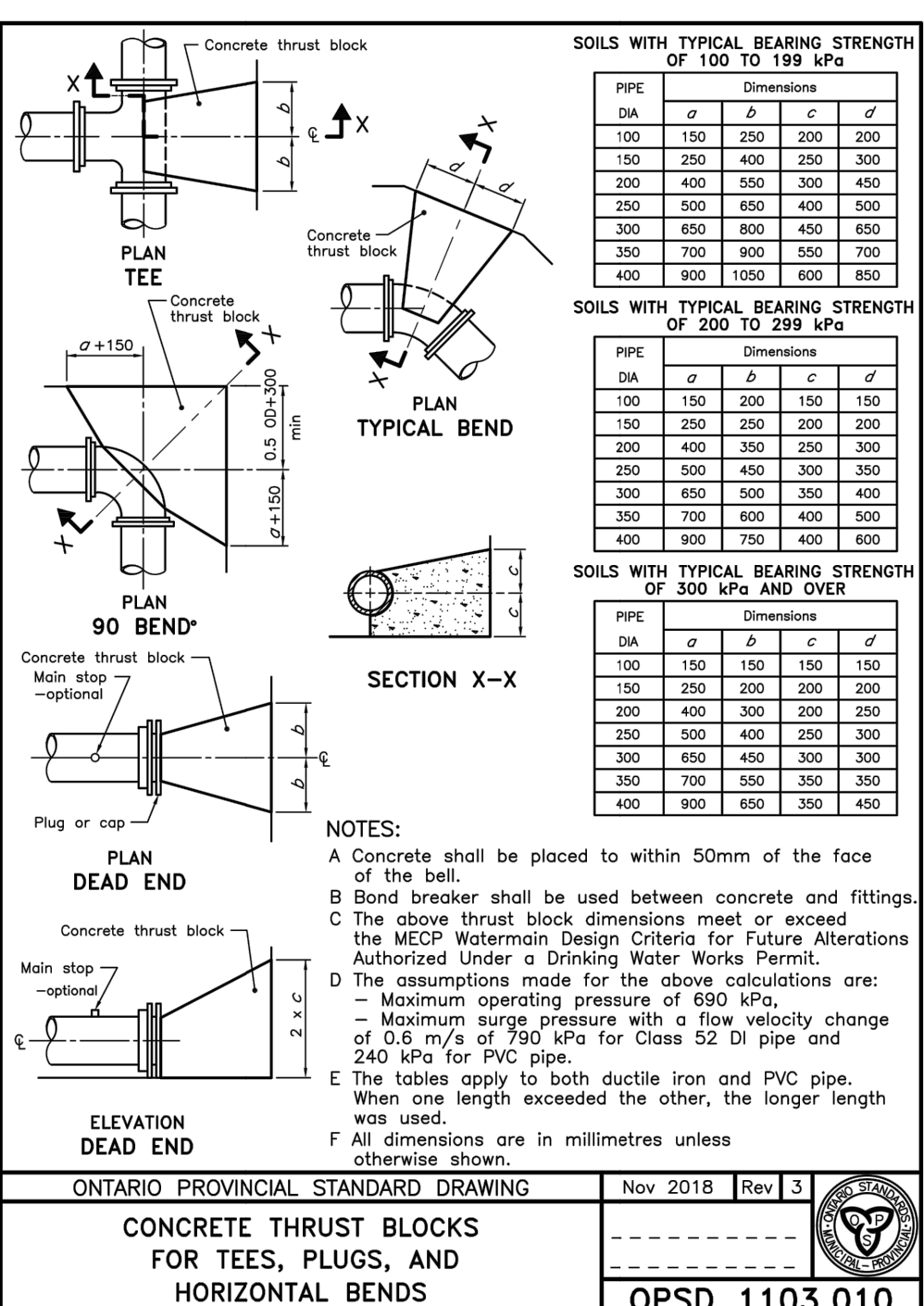
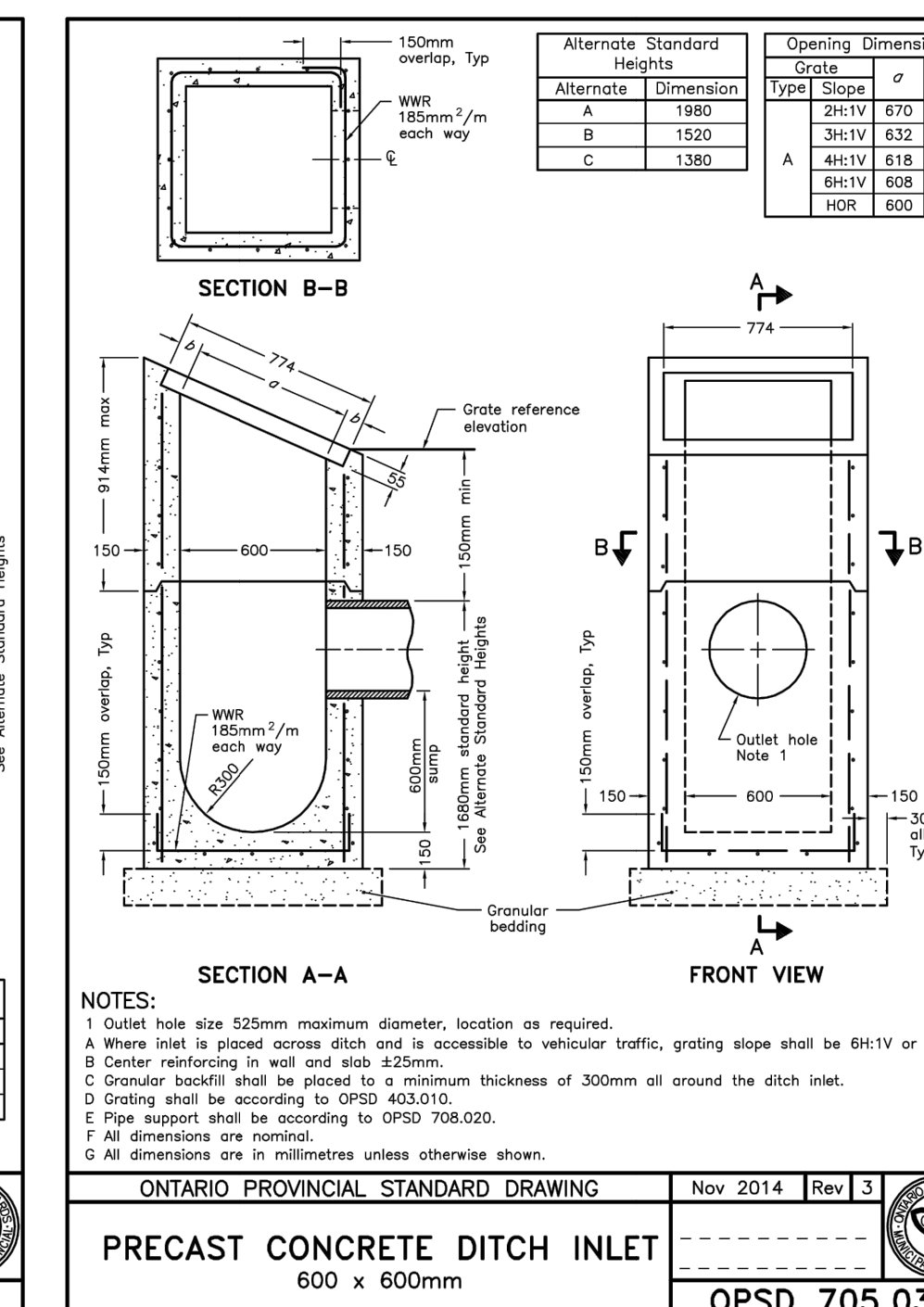
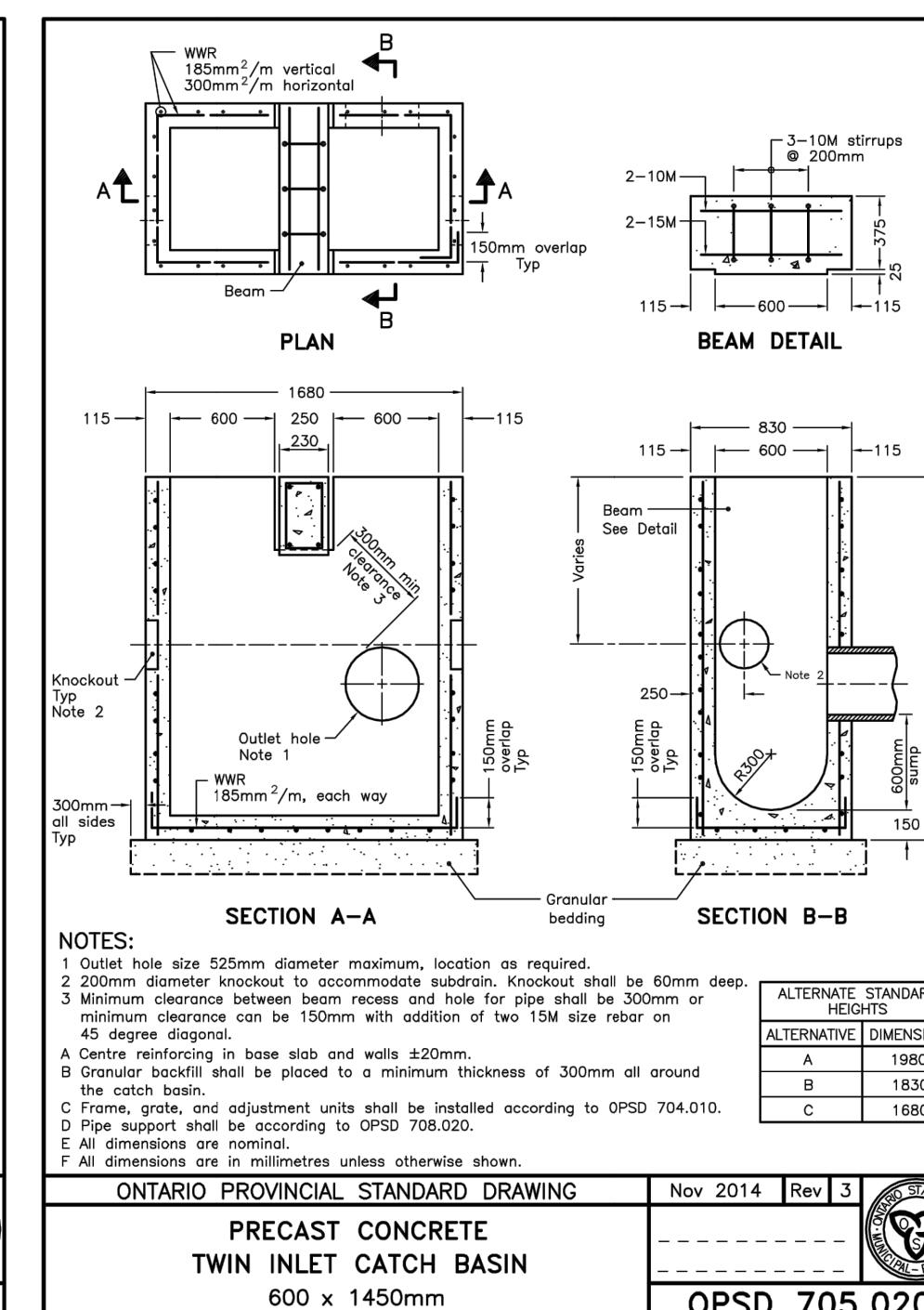
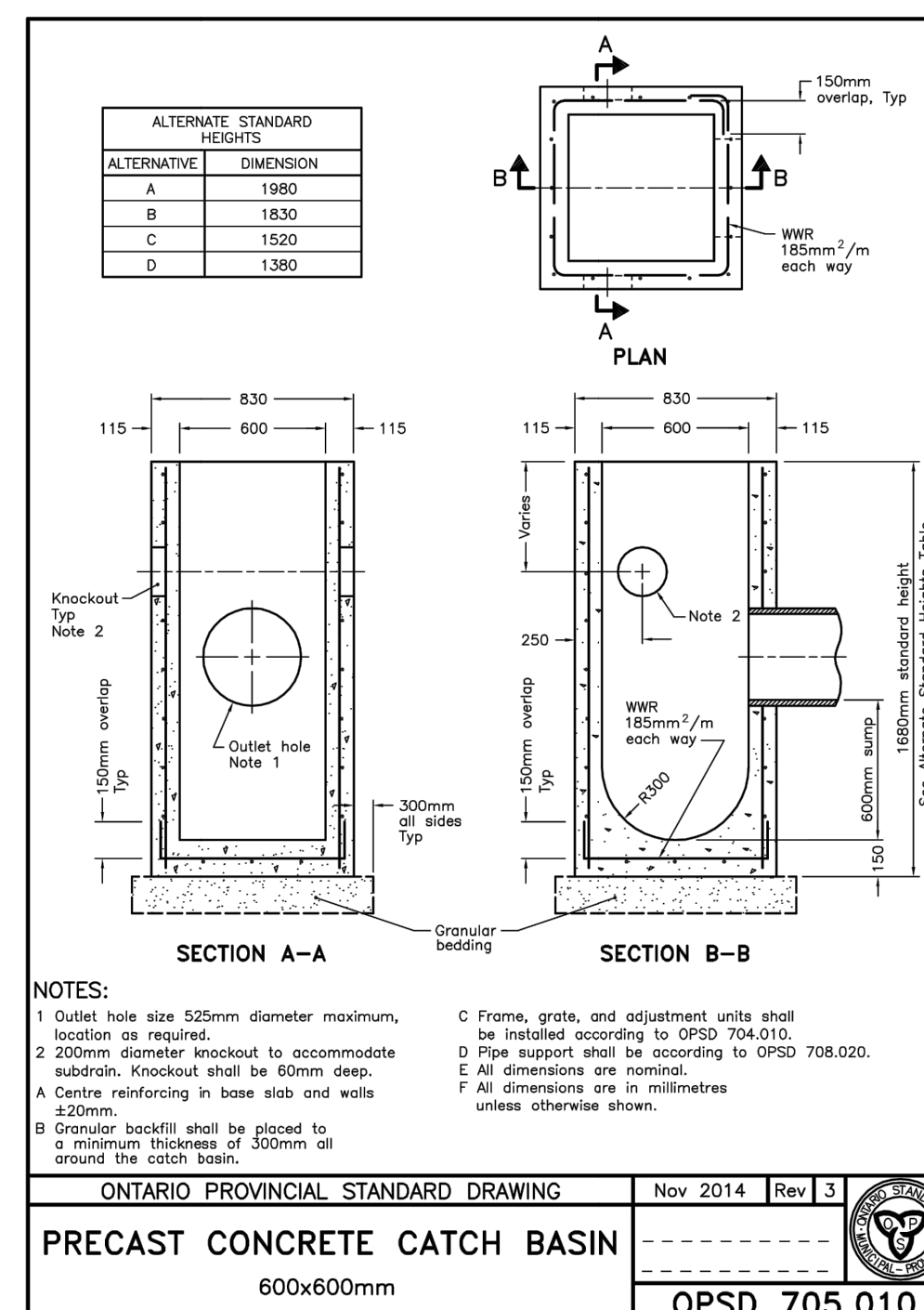
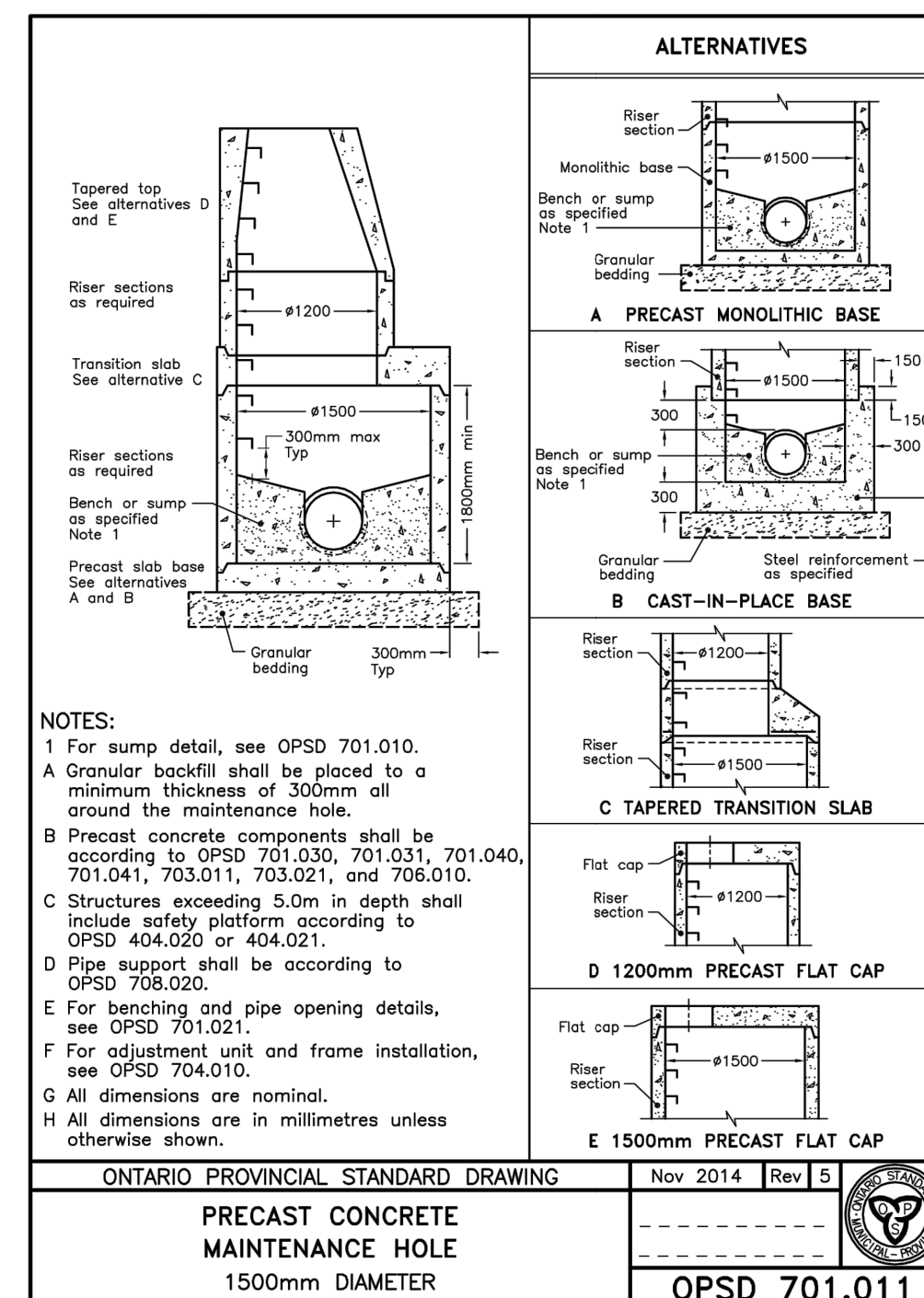
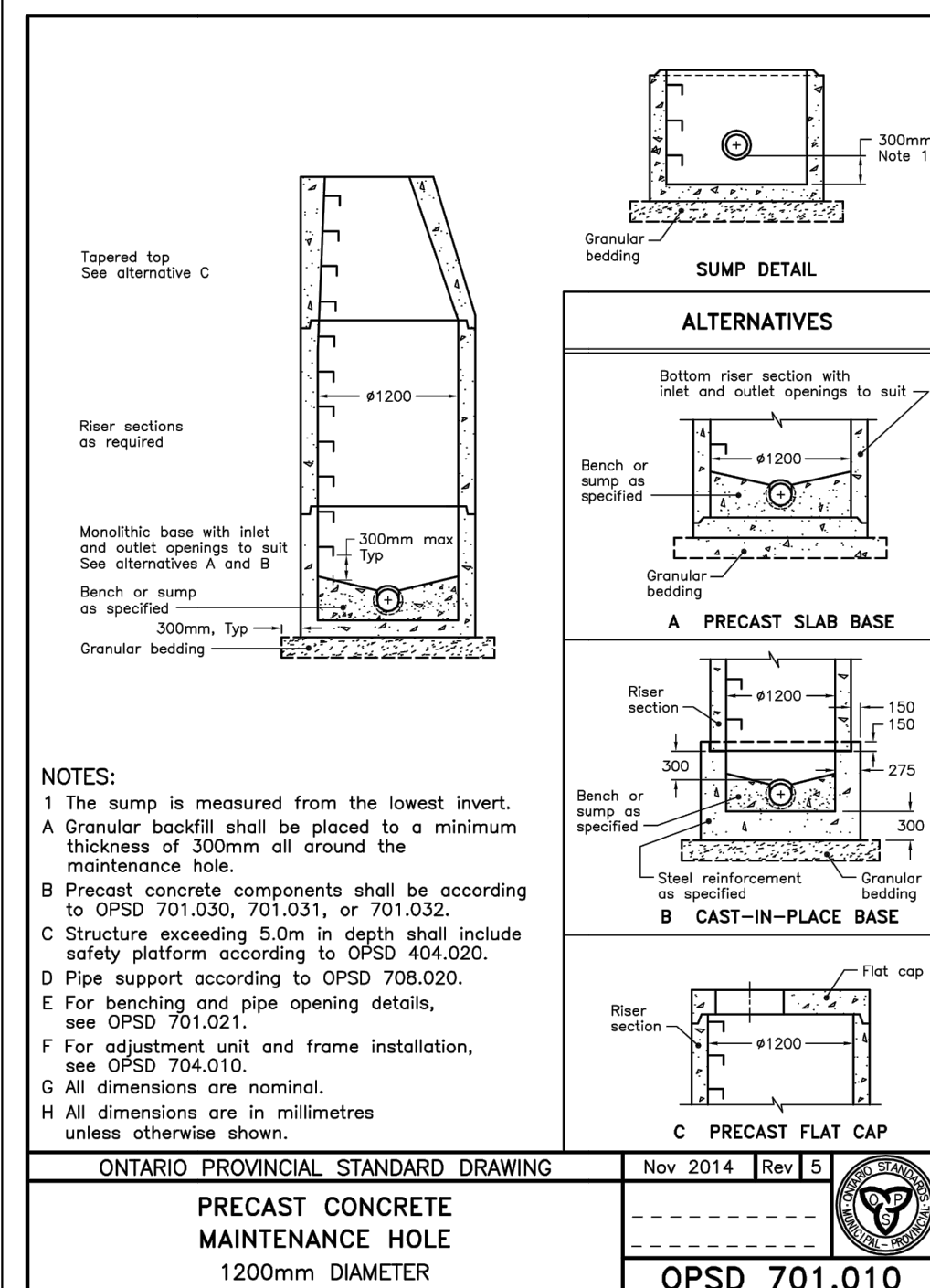
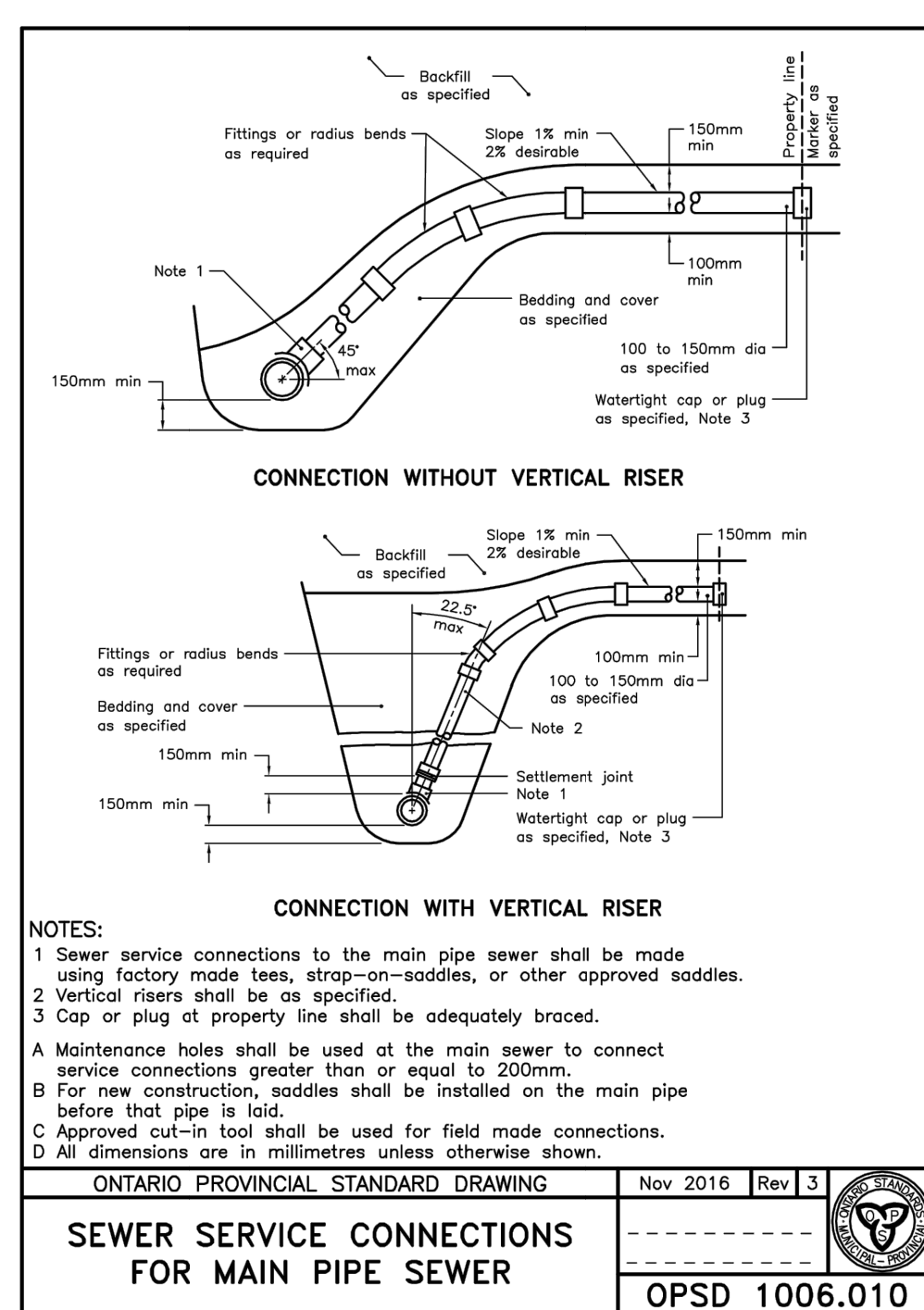
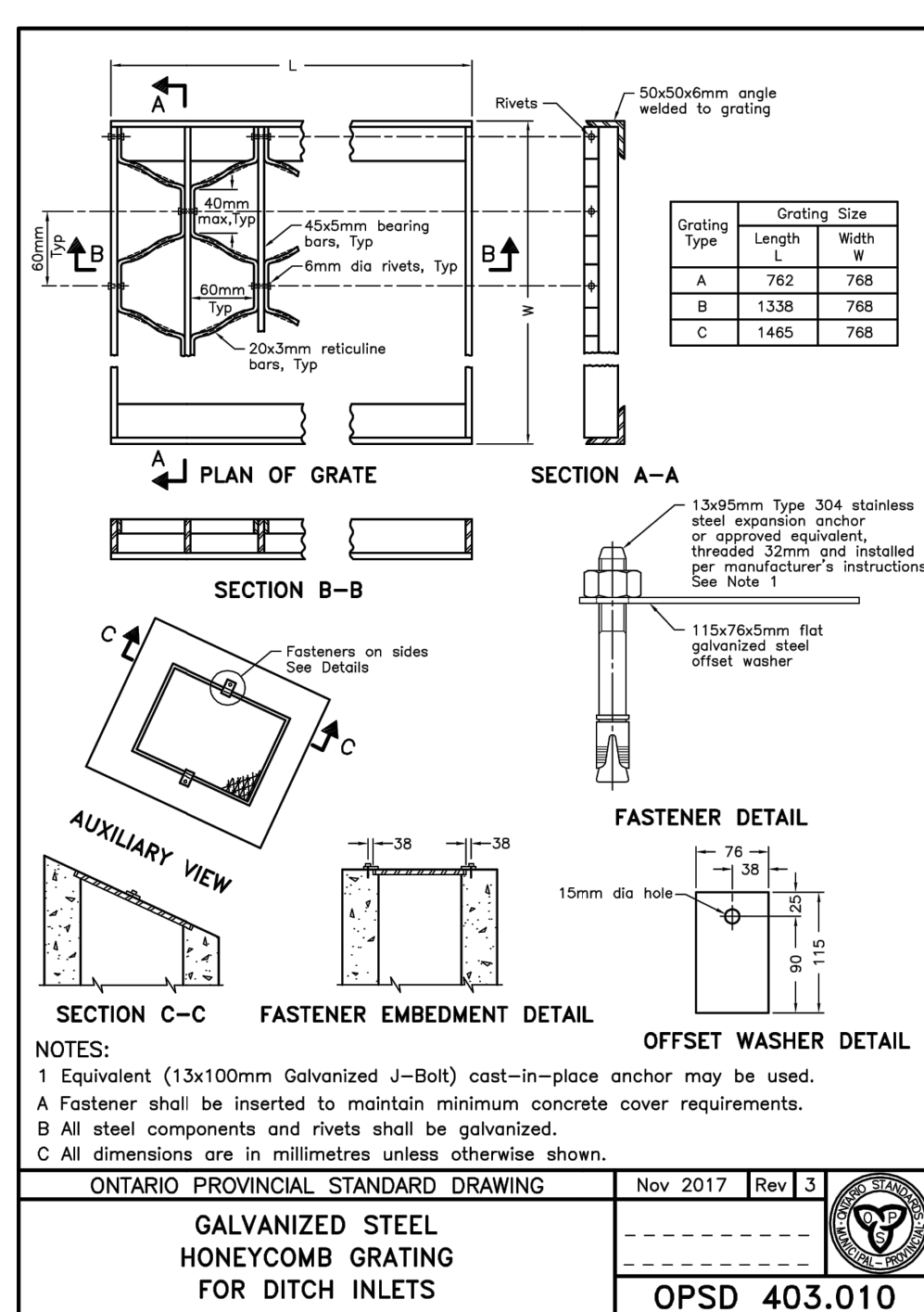
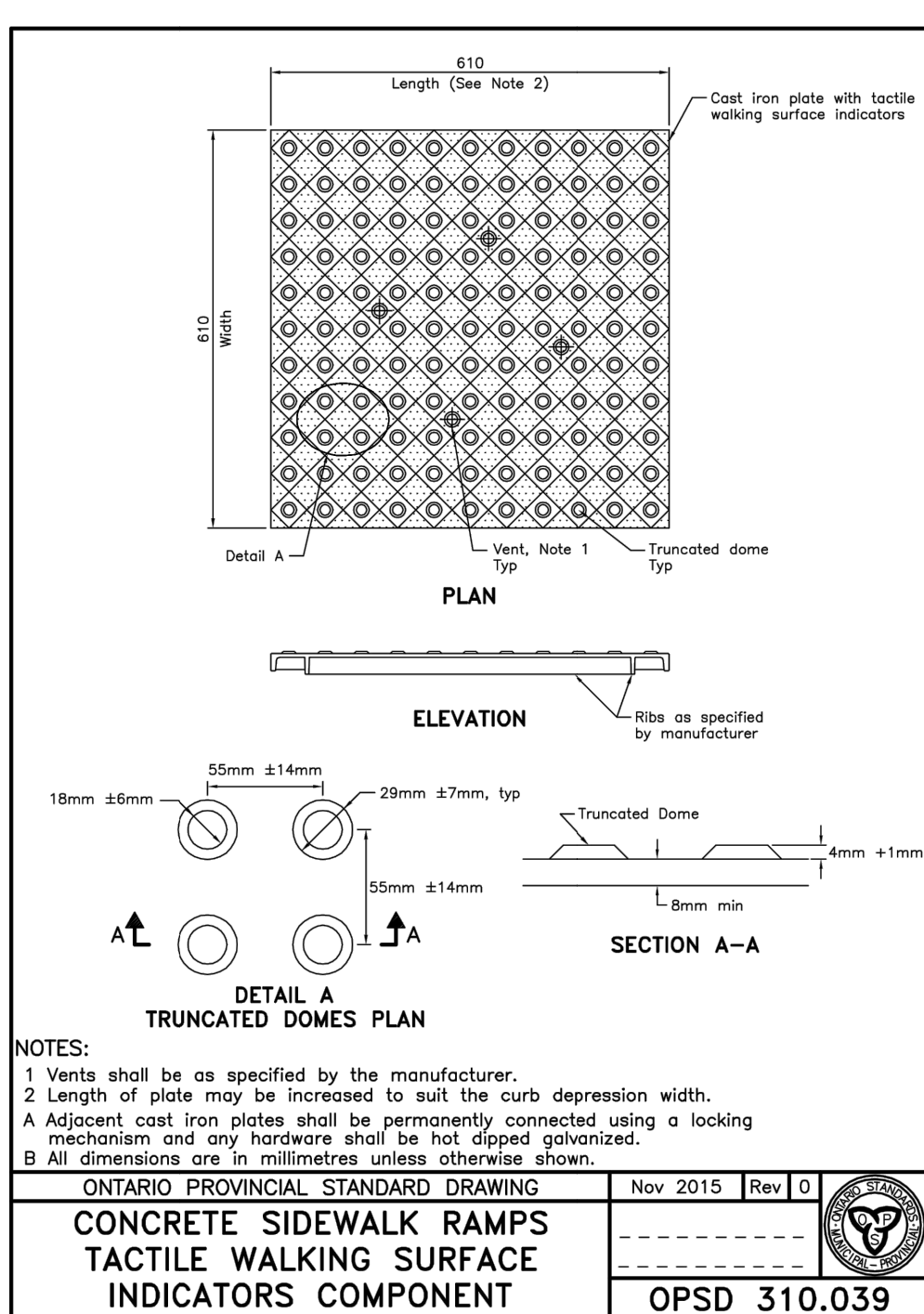
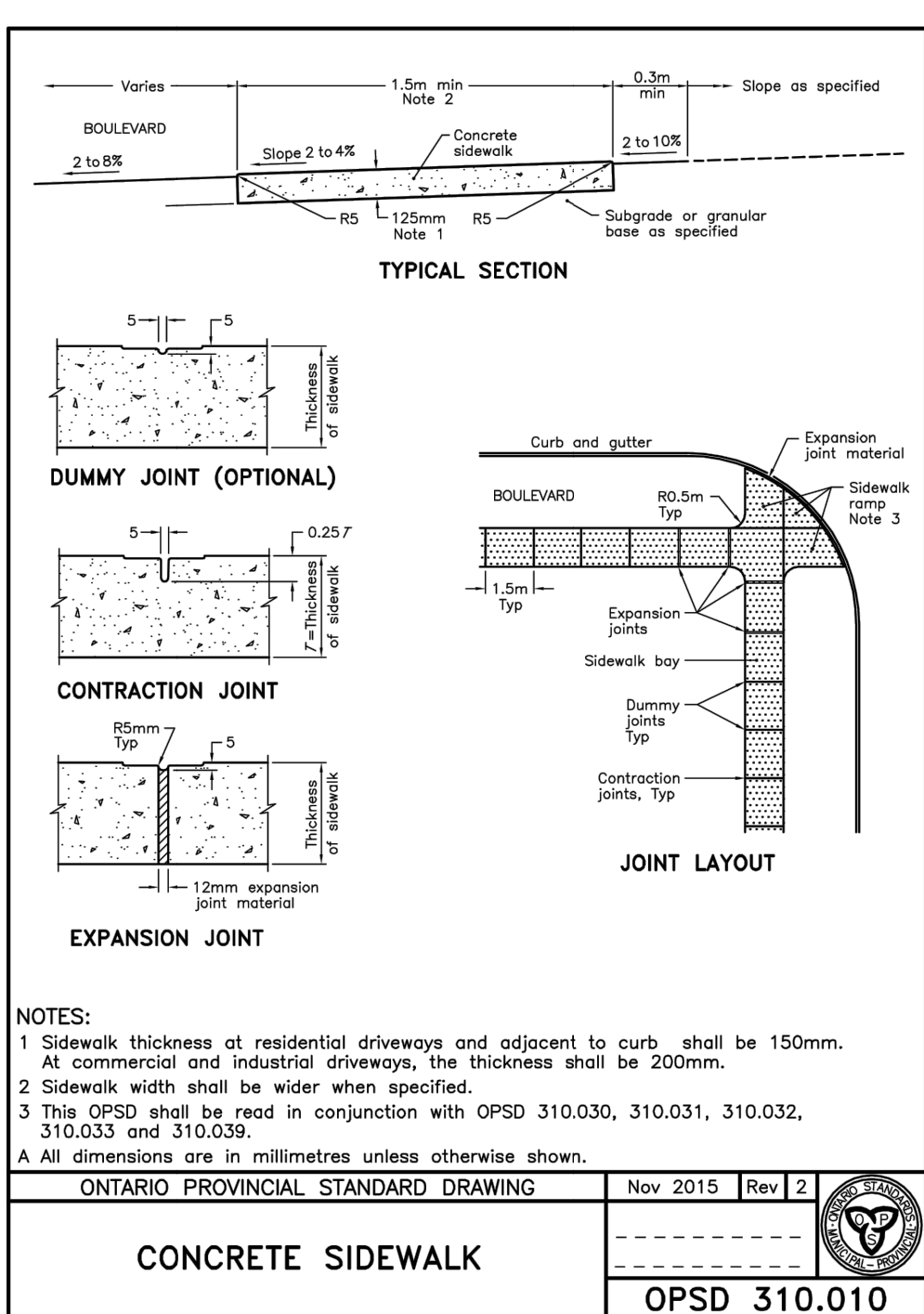
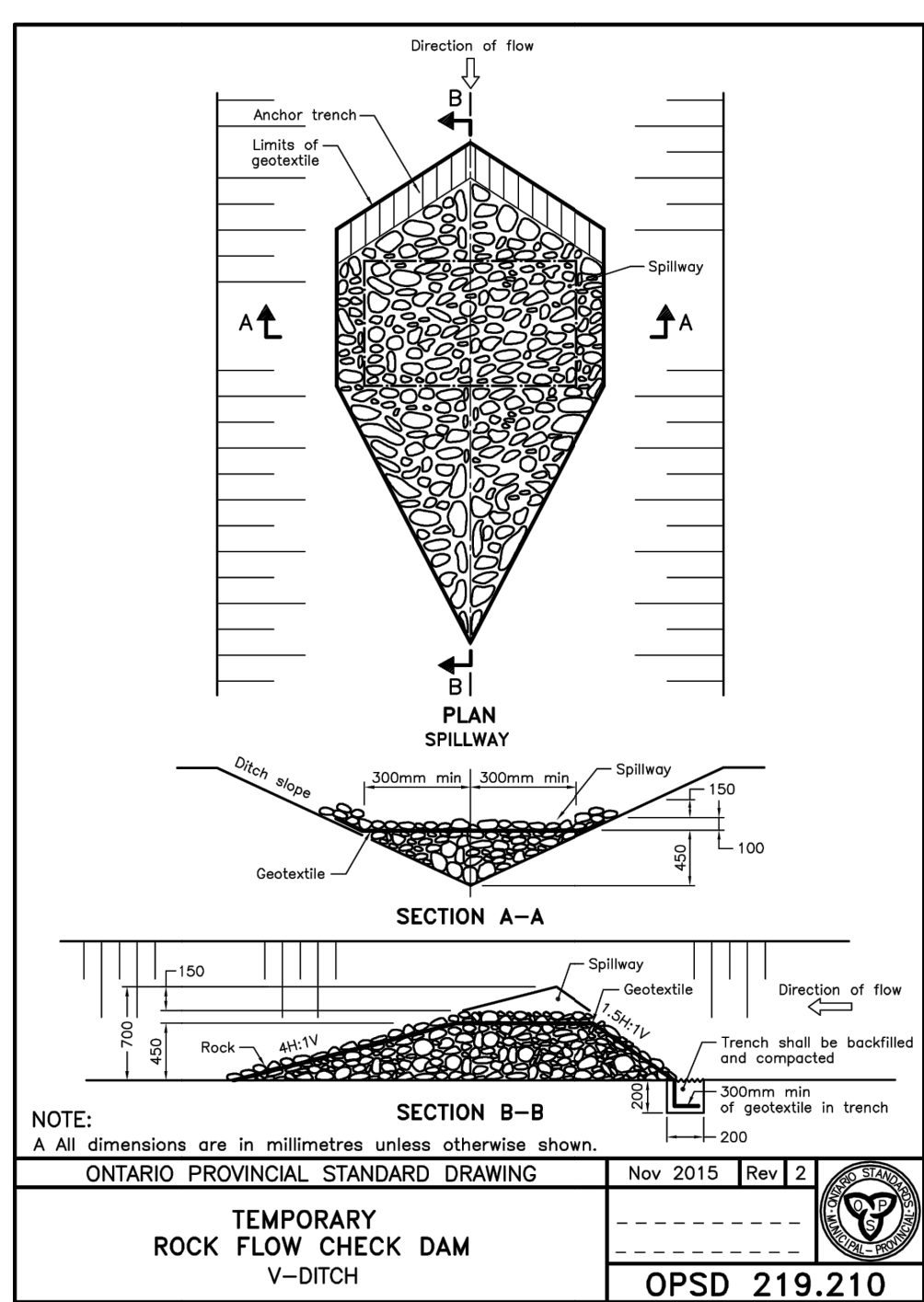
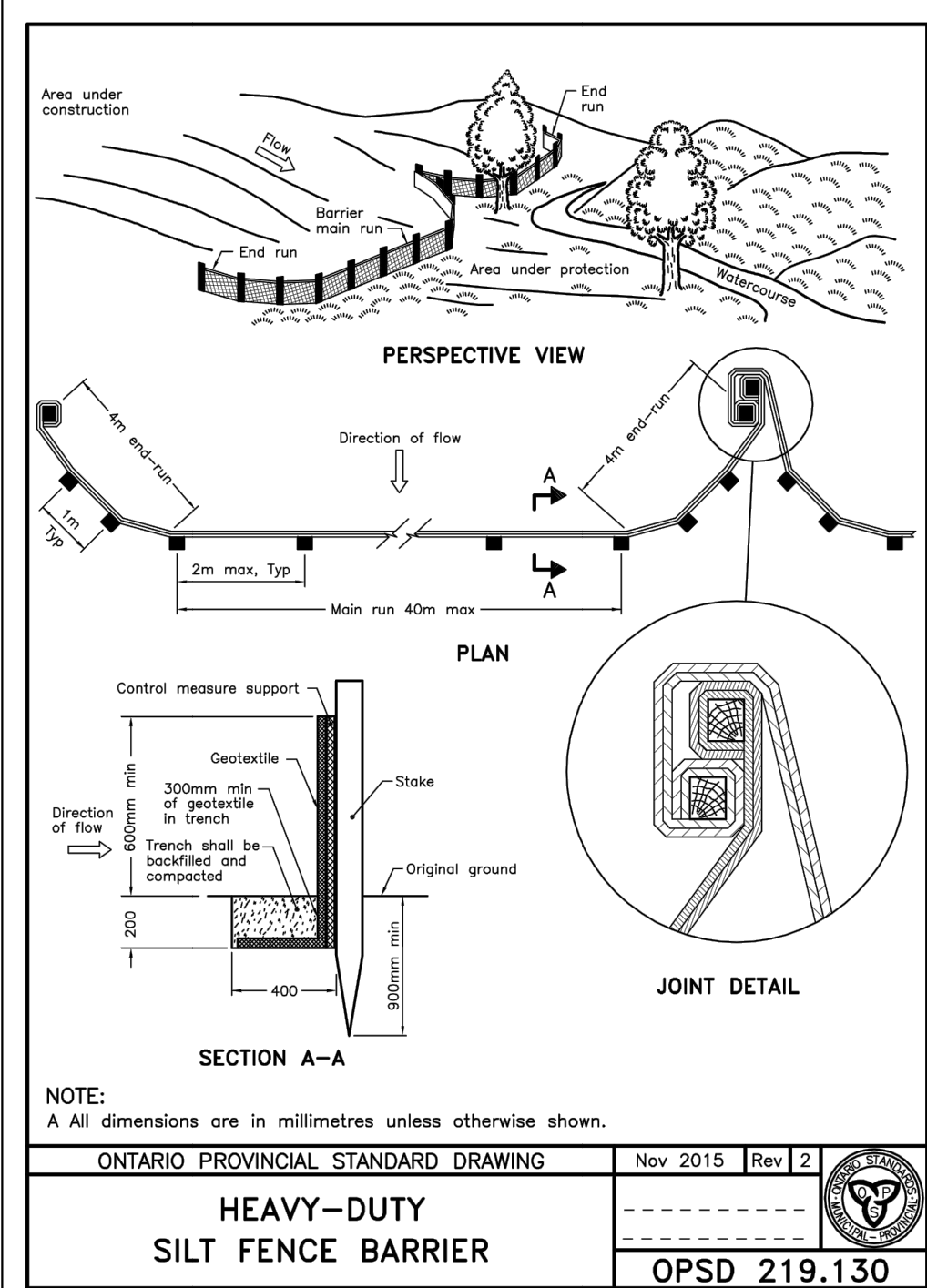
Notes	No	Issue / Revision	Date	Auth
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NO.	REVISION	APPR'D	DATE	TOWN OF COLLINGWOOD	APPR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04		DRAWN:	SCALE: N/A
2.	REVISED WATERMAIN TESTING	EDH	APR/07			
				STANDARD STREET NAME AND REGULATORY SIGNS	STD. No.	401



Client BLACKMOOR GATES 75 WESTMORE DRIVE ETOBICOKE, ON M9V 3Y6	CAVES ENGINEERING	355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE CLARKSBURG, ON N0H 1JX TEL: 705-994-4818
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Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19	Drawing No.
Project No. 2019-020	Rev No. 1	Scale 1:500	C18



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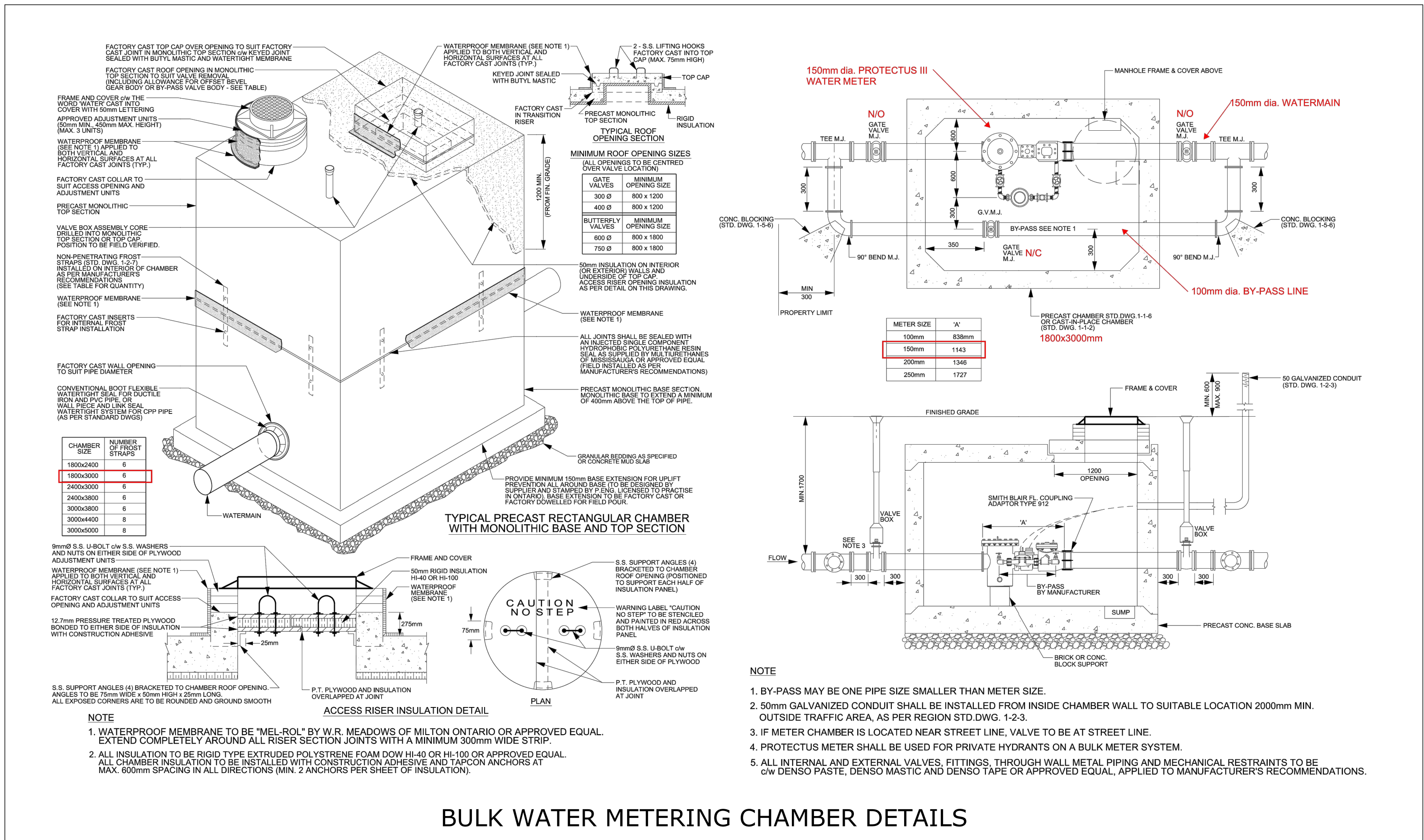
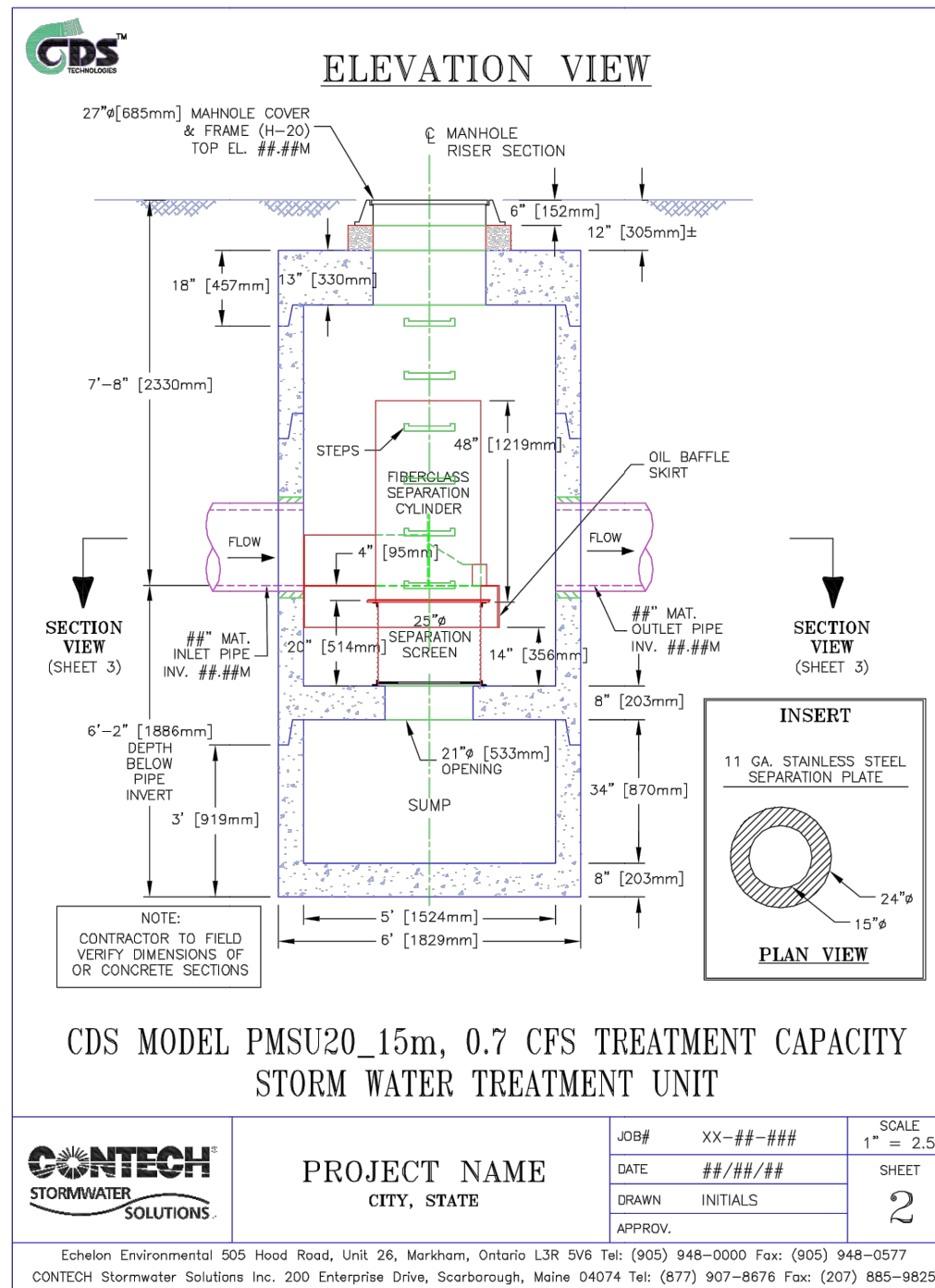
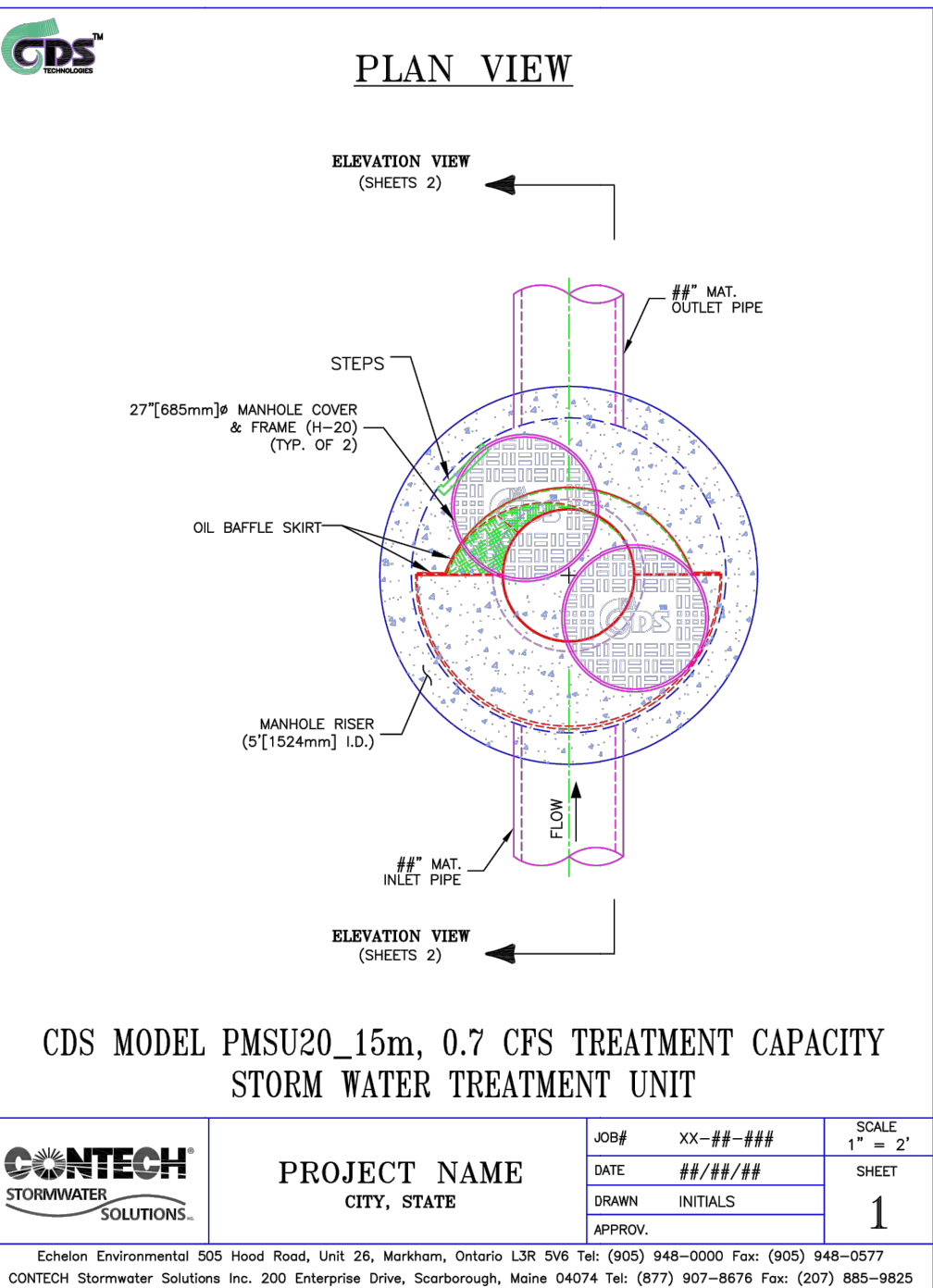
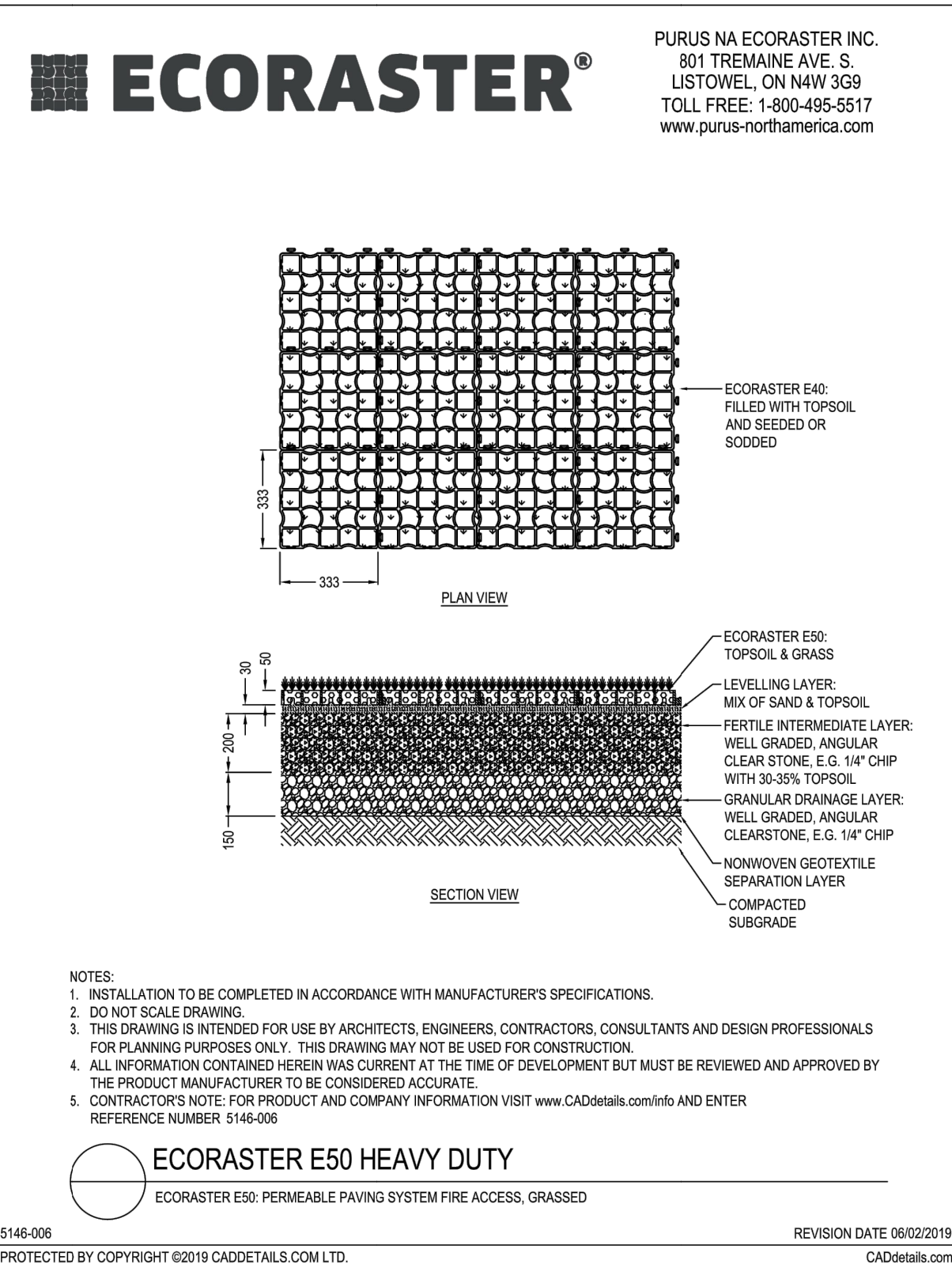
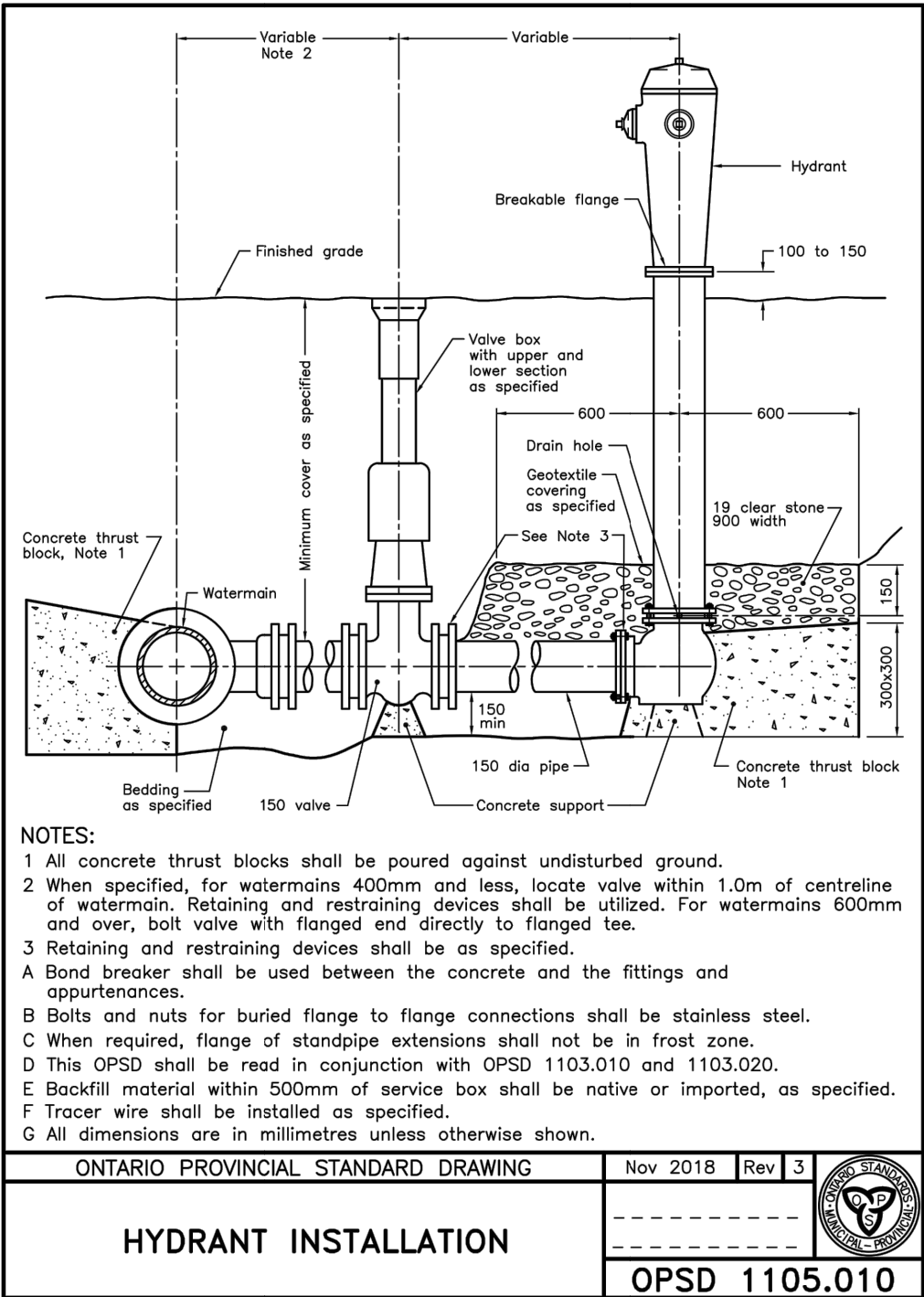
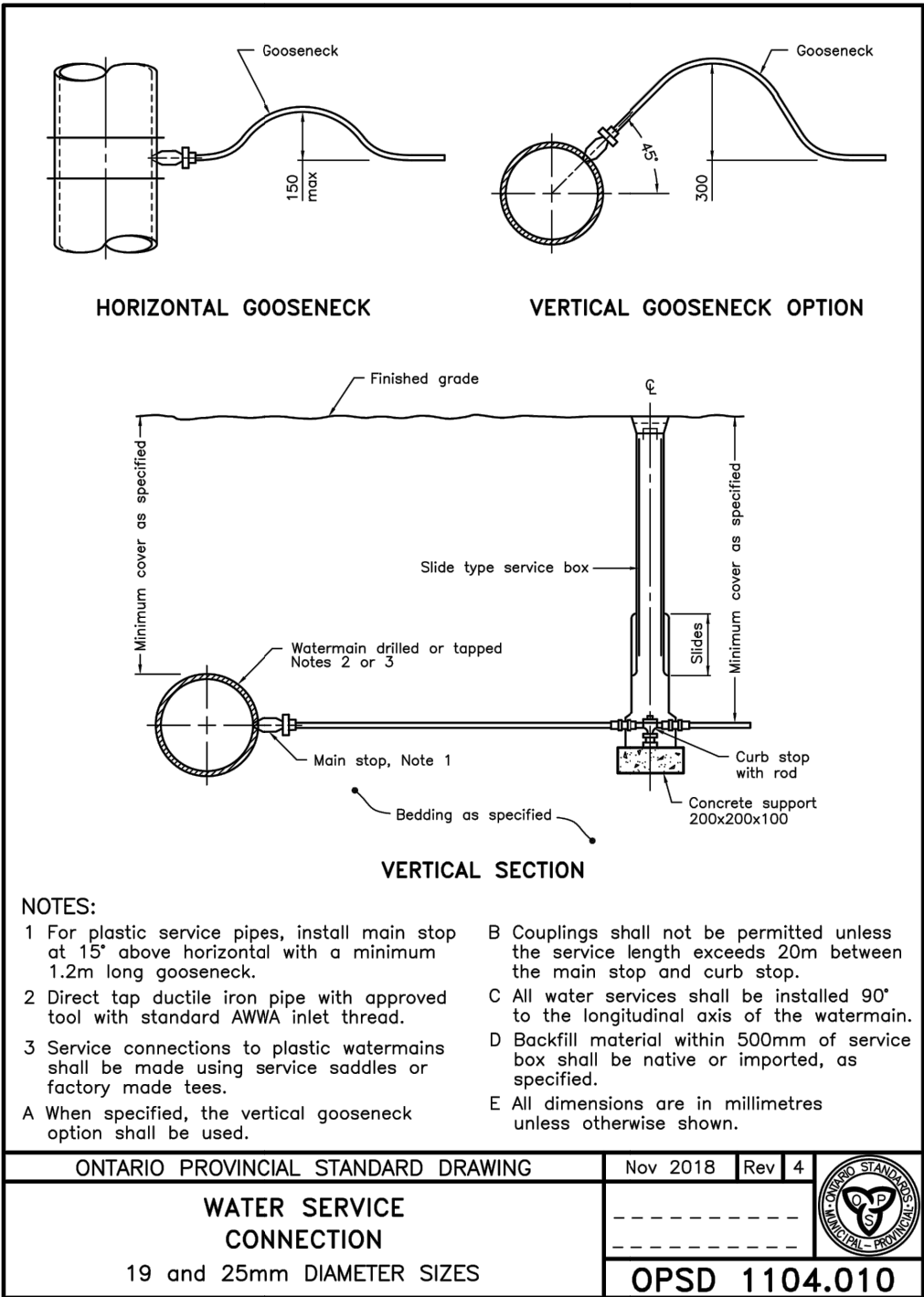
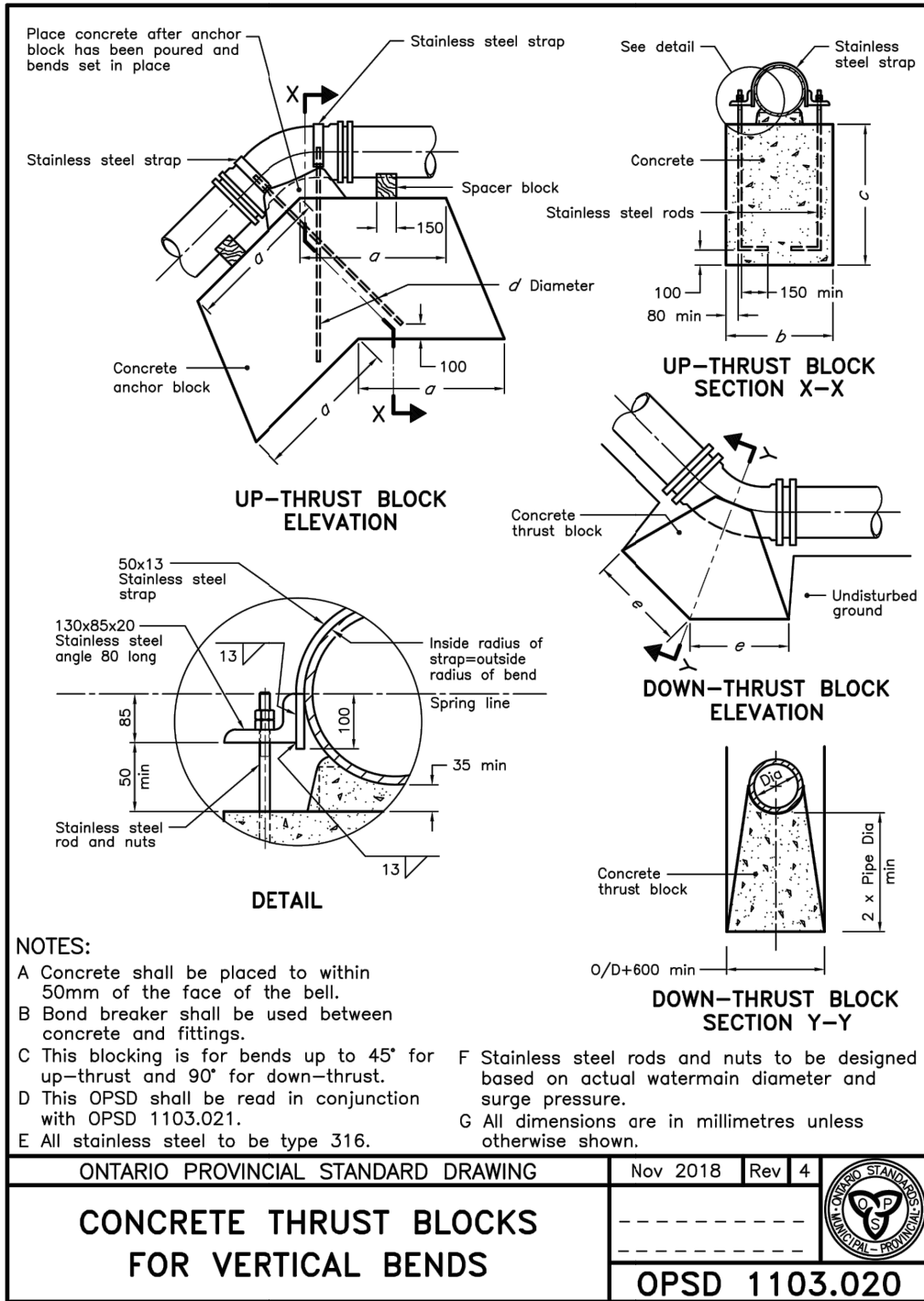
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Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19
Project No. 2019-020	Rev No. 1	

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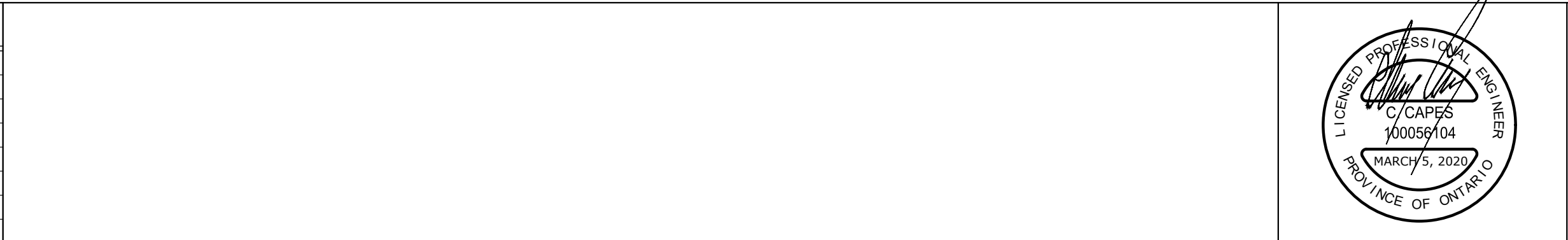


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TOWN OF COLLINGWOOD

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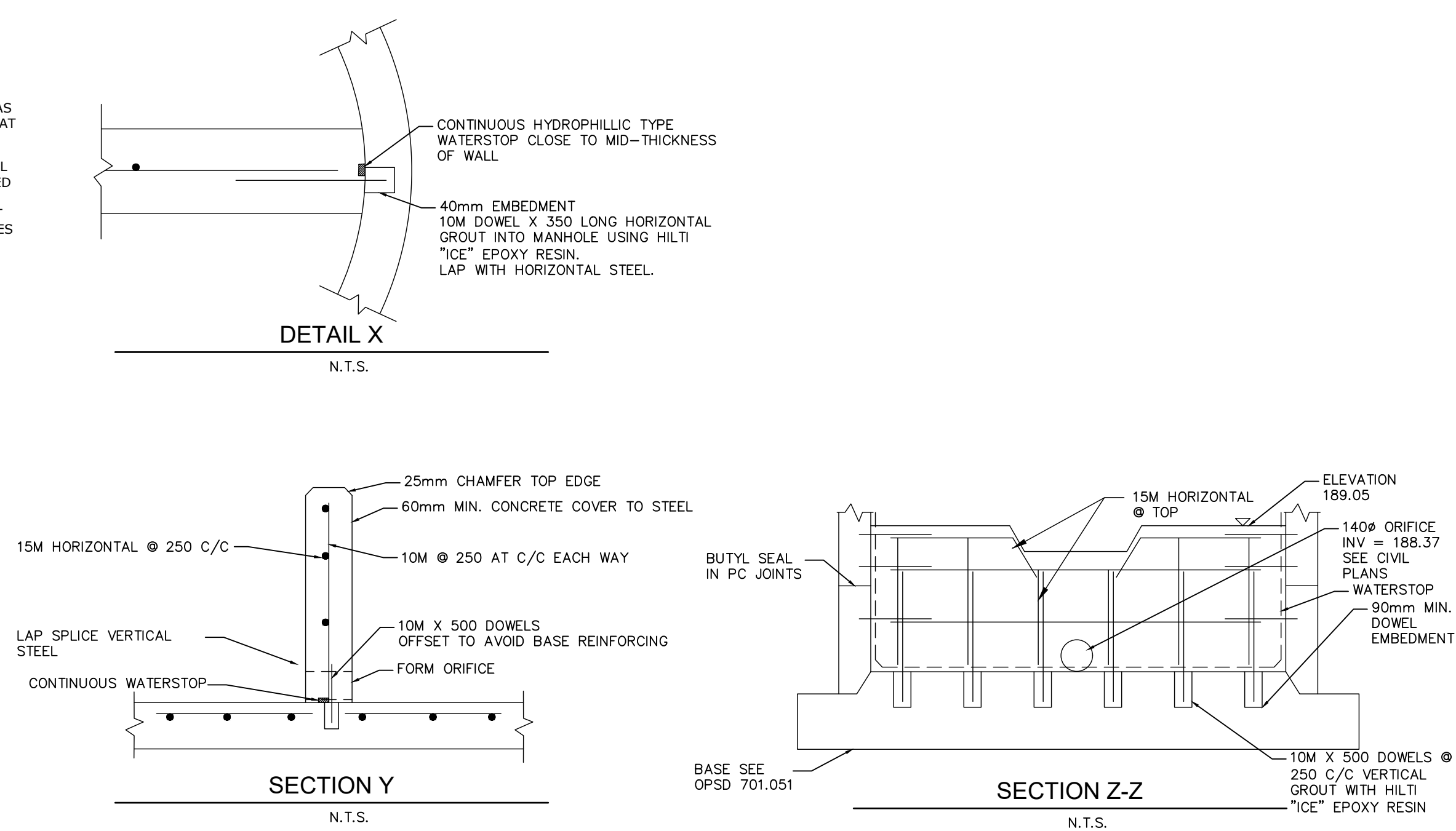
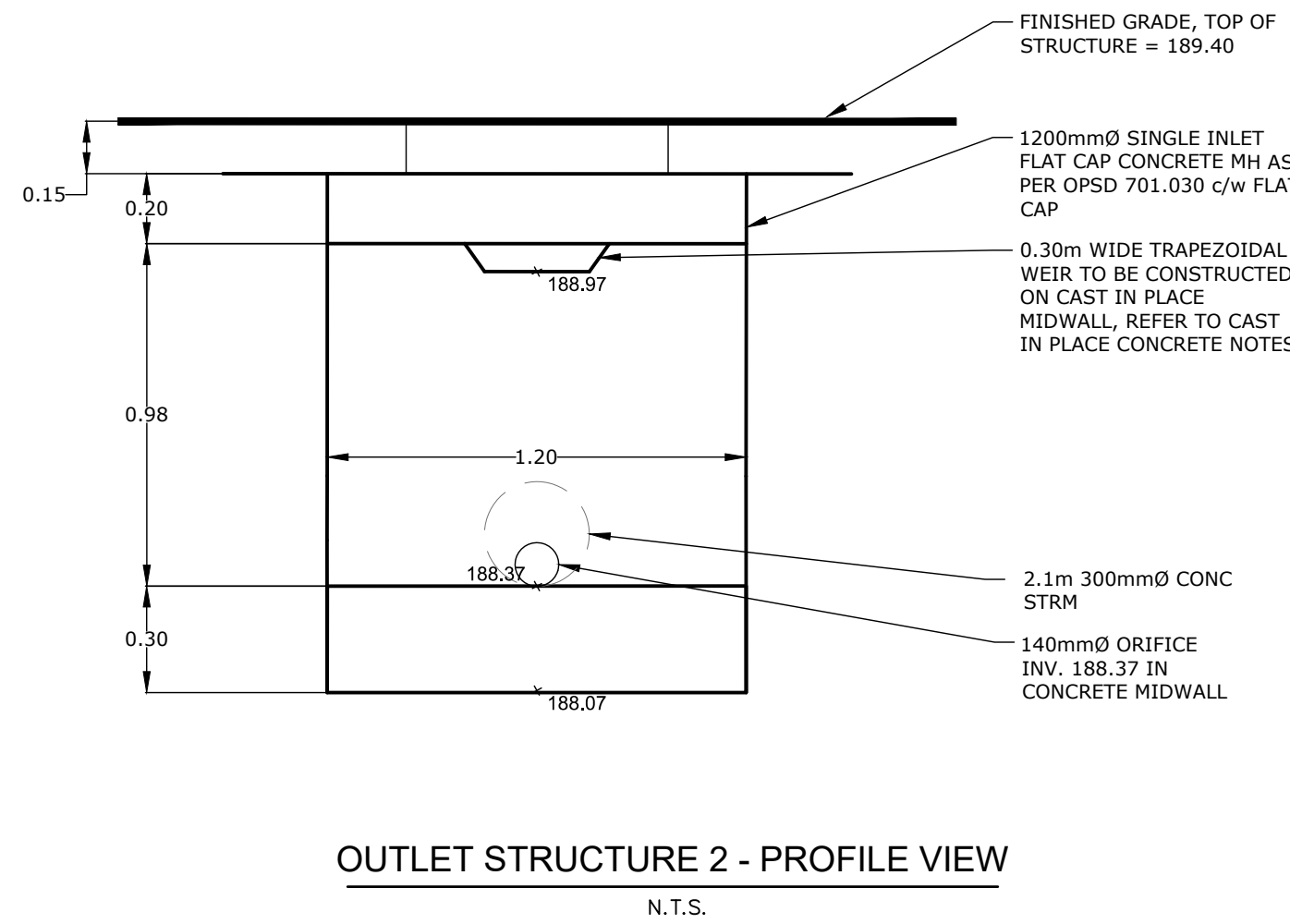
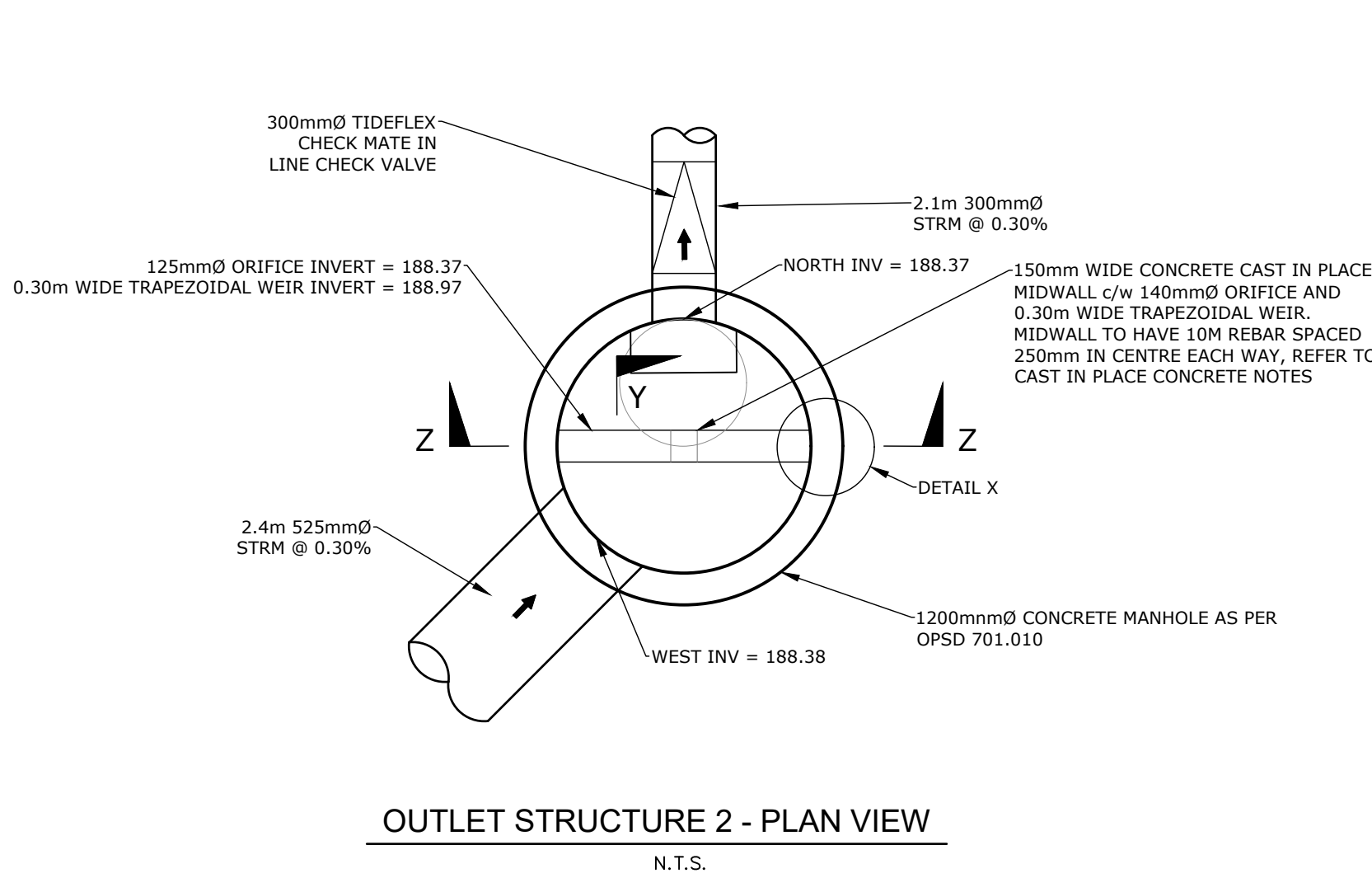
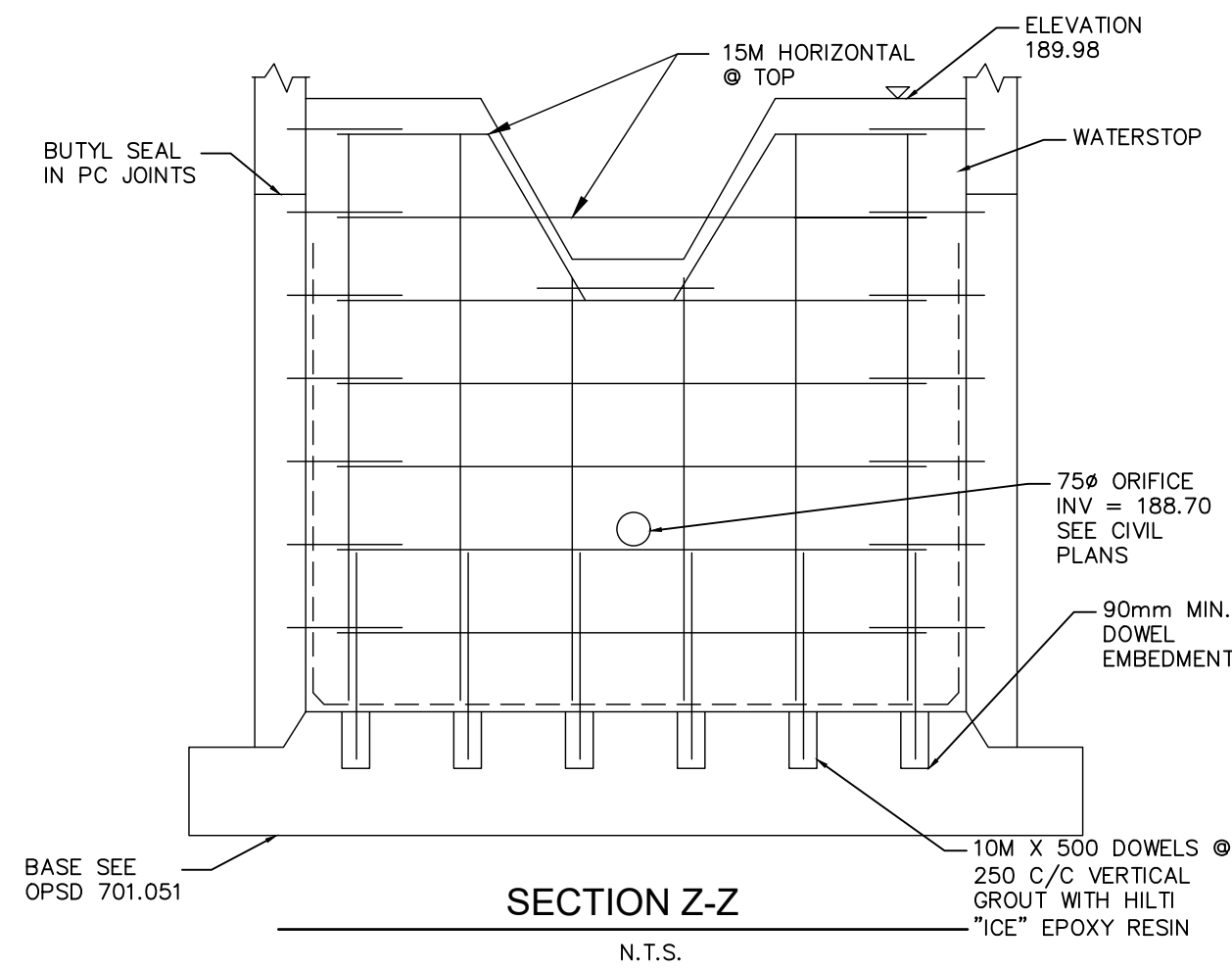
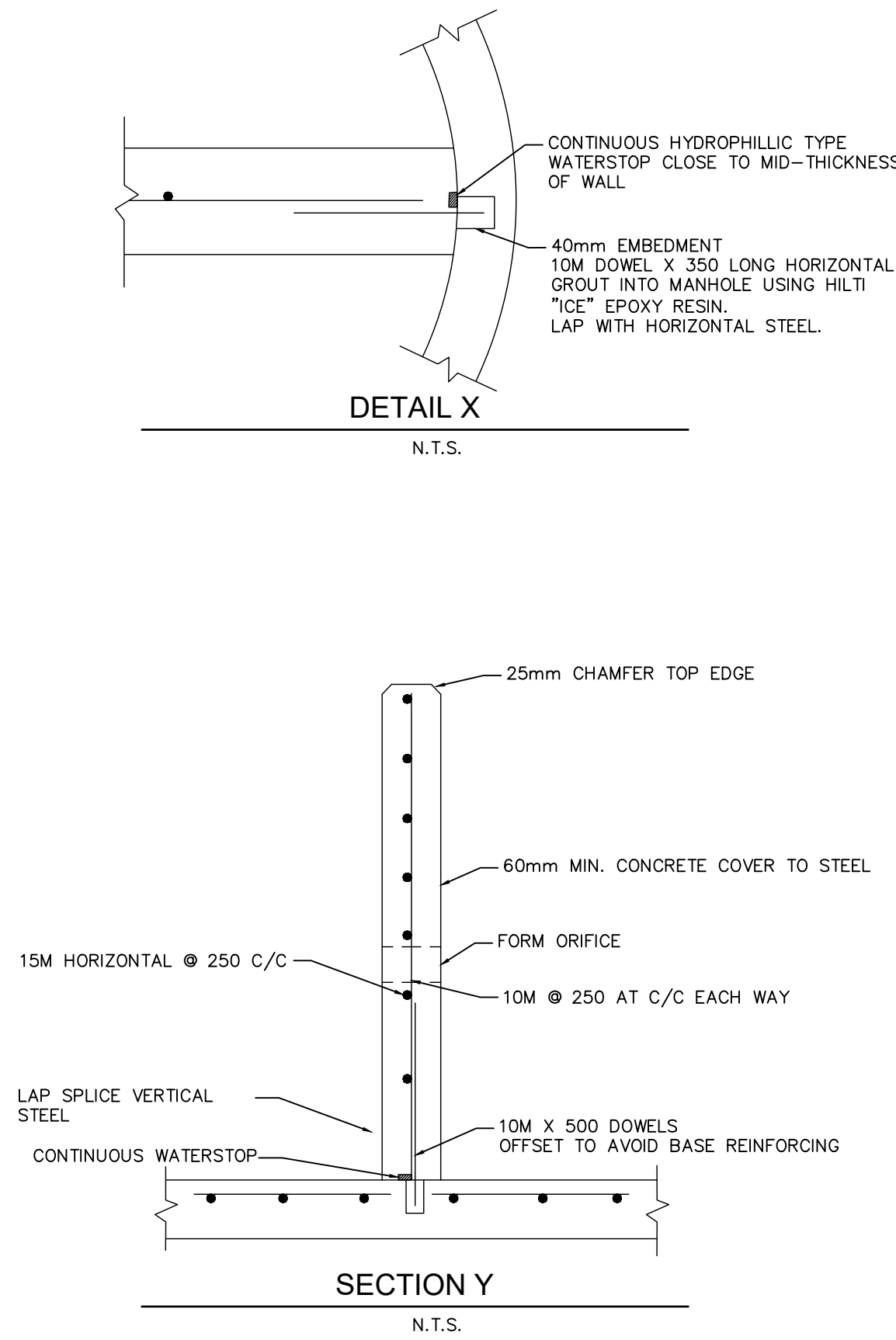
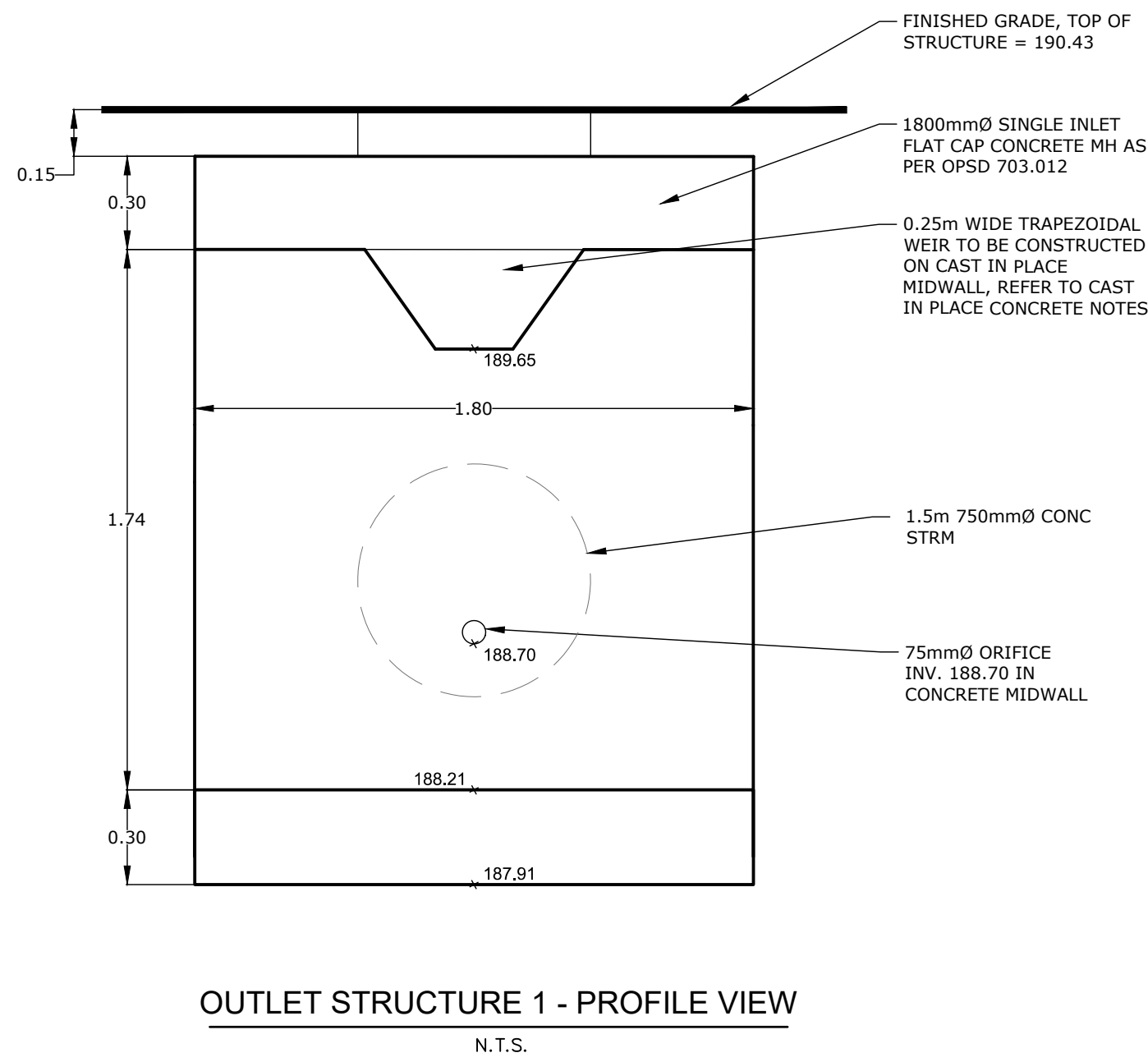
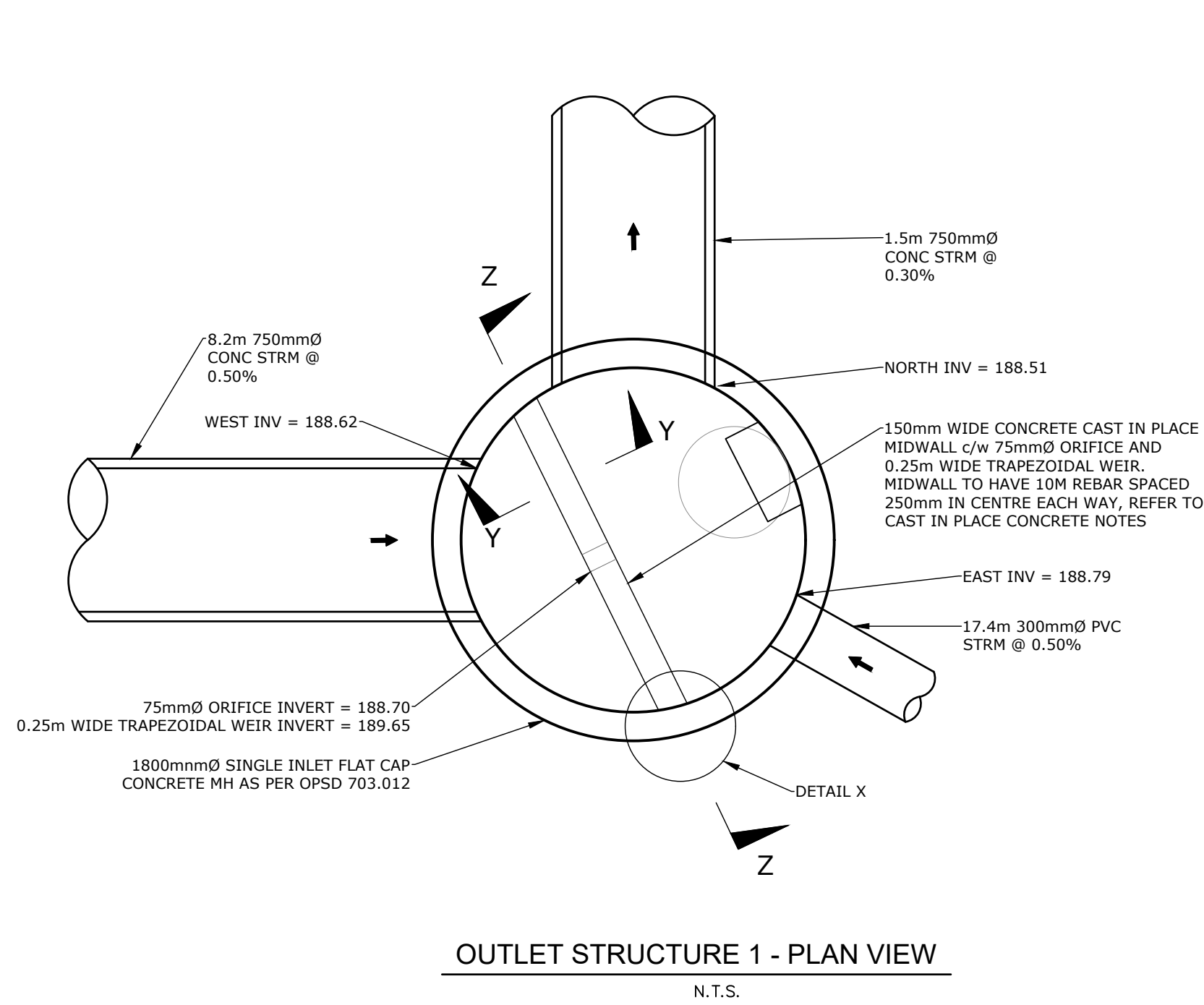
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Client BLACKMOOR GATES 75 WESTMORE DRIVE ETOBICOKE, ON M9V 3Y6	Designed K. GRIFFIN	Checked C. CAPES	Date 19/09/19	Drawing No. C20
	Project No. 2019-020	Rev No. 1		
	Scale 1:500			

Blackmoor Gates Standard Details	355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE CLARKSBURG, ON N0W 1JX TEL: 705-994-4818
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CAST IN PLACE CONCRETE NOTES:	
GENERAL	
1. CONFORM TO CSA – A23 SERIES OF STANDARDS, AND THE RSC MANUAL OF STANDARD PRACTICE (LATEST EDITION) FOR DESIGN, MATERIALS, CONSTRUCTION, CURING, TESTING, TOLERANCES, AND FINISHING CONCRETE.	
2. INSTALL OR SUPPLY AND INSTALL, ANCHORAGE, FASTENINGS AND BLOCKING AS REQUIRED, FOR WORK OF OTHER SECTIONS.	
PRODUCTS	
1. MATERIALS:	
1.1. CEMENT: GENERAL TYPE GU PORTLAND CEMENT TO CSA A3001.	
1.2. WATER, FINE AGGREGATES, COARSE AGGREGATES: TO CSA-A23.1. MAXIMUM COARSE AGGREGATE TO BE 20mm DIAMETER.	
1.3. AIR-ENTRAINING ADMIXTURE: TO ASTM C260.	
1.4. CHEMICAL ADMIXTURES: TO ASTM C494 OR ASTM C1017.	
1.5. CURING-SEALING COMPOUND: WHEN WATER CURING IS NOT PRACTICAL AS APPROVED BY THE ENGINEER, USE A CLEAR LIQUID PRODUCT TO ASTM C-309, TYPE 1. USE SEALTIGHT VOCOMP20 BY W.R. MEADOWS OF CANADA LIMITED.	
1.6. HYDROPHILIC TYPE WATERSTOP: HYDROTITE CJK – BY MME MULTIURETHANES (1 800 663 6633).	
1.7. REINFORCING STEEL: NEW, DEFORMED, BILLET-STEEL BARS TO CSA STANDARDS G30.18, GRADE 400R.	
2. SUPPLY CONCRETE AS PER CSA A23.1-09, PERFORMANCE BASED SPECIFICATION CLEARLY COORDINATING MIX DESIGNATIONS WITH STRUCTURAL AND ARCHITECTURAL CRITERIA FOUND WITHIN THE CONTRACT DOCUMENTS. FOR ALL CONCRETE MIXES CLEARLY IDENTIFY AND CONFIRM THE UNDERSTANDING OF THE CONCRETE REQUIREMENTS IN WRITING PRIOR TO PRODUCTION FOR ALL MIXES. SUCH A SUBMISSION SHALL INCLUDE, AS A MINIMUM, THE LOCATION OF EACH MIX DESIGN TO BE USED IN THE STRUCTURE, THE CEMENT TYPE, ALL SUPPLEMENTARY MATERIALS, CLASS OF EXPOSURE, COMPRESSIVE STRENGTHS, AGGREGATE SIZE, AND CONCRETE DENSITY. USE READY-MIXED CONCRETE TO GIVE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 35 MPa @ 28 DAYS, WITH EXPOSURE CLASS C1. COORDINATE WITH THE GENERAL CONTRACTOR WITH RESPECT TO WORKABILITY ISSUES, AND CONFIRM THE CRITERIA IN THE SUBMISSION (SLUMP, PUMP MIX, DESIGN CONCRETE TEMPERATURE, ETC.).	
EXECUTION	
1. USE VIBRATORS FOR CONSOLIDATION OF CONCRETE.	
2. PROVIDE STEEL CHAIRS OR CONCRETE SPACERS TO MAINTAIN SPECIFIED 60mm COVER TO REINFORCING STEEL.	
3. CONCRETE SHALL BE FREE FROM HONEYCOMBING, VOIDS, LOSS OF FINES, VISIBLE FLOW LINES AND COLD JOINTS, CHIPS AND SPALLS, PATCH DEFECTS AND TIE HOLES.	
4. LAP ALL REINFORCING WITH CLASS 'B' SPLICES U/N. ALL STEEL MUST BE ADEQUATELY TIED AND ACCURATELY PLACED PRIOR TO THE COMMENCEMENT OF ANY CONCRETE POUR.	
5. PROTECT FRESH CONCRETE FROM PREMATURE DRYING, SUNSHINE, EXCESSIVELY HOT OR COLD TEMPERATURES AND MECHANICAL INJURY. MAINTAIN AT A RELATIVELY CONSTANT TEMPERATURE FOR AS LONG AS REQUIRED FOR HYDRATION OF THE CEMENT AND CURING OF THE CONCRETE. REFER TO CSA A23.1 FOR HOT AND COLD WEATHER CONCRETING PRACTICES.	
6. PROTECT FRESH CONCRETE FROM COLD TEMPERATURES BELOW 5 DEGREES CELSIUS. PROVIDE TEMPORARY HEAT FOR A MINIMUM OF 3 DAYS TO MAINTAIN A TEMPERATURE OF GREATER THAN 15 DEGREES CELSIUS.	

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CONSTRUCTION
TOWN OF COLLINGWOOD

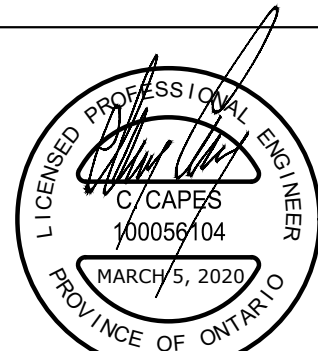
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No	Issue / Revision	Date	Auth
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Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6

CAPES
ENGINEERING

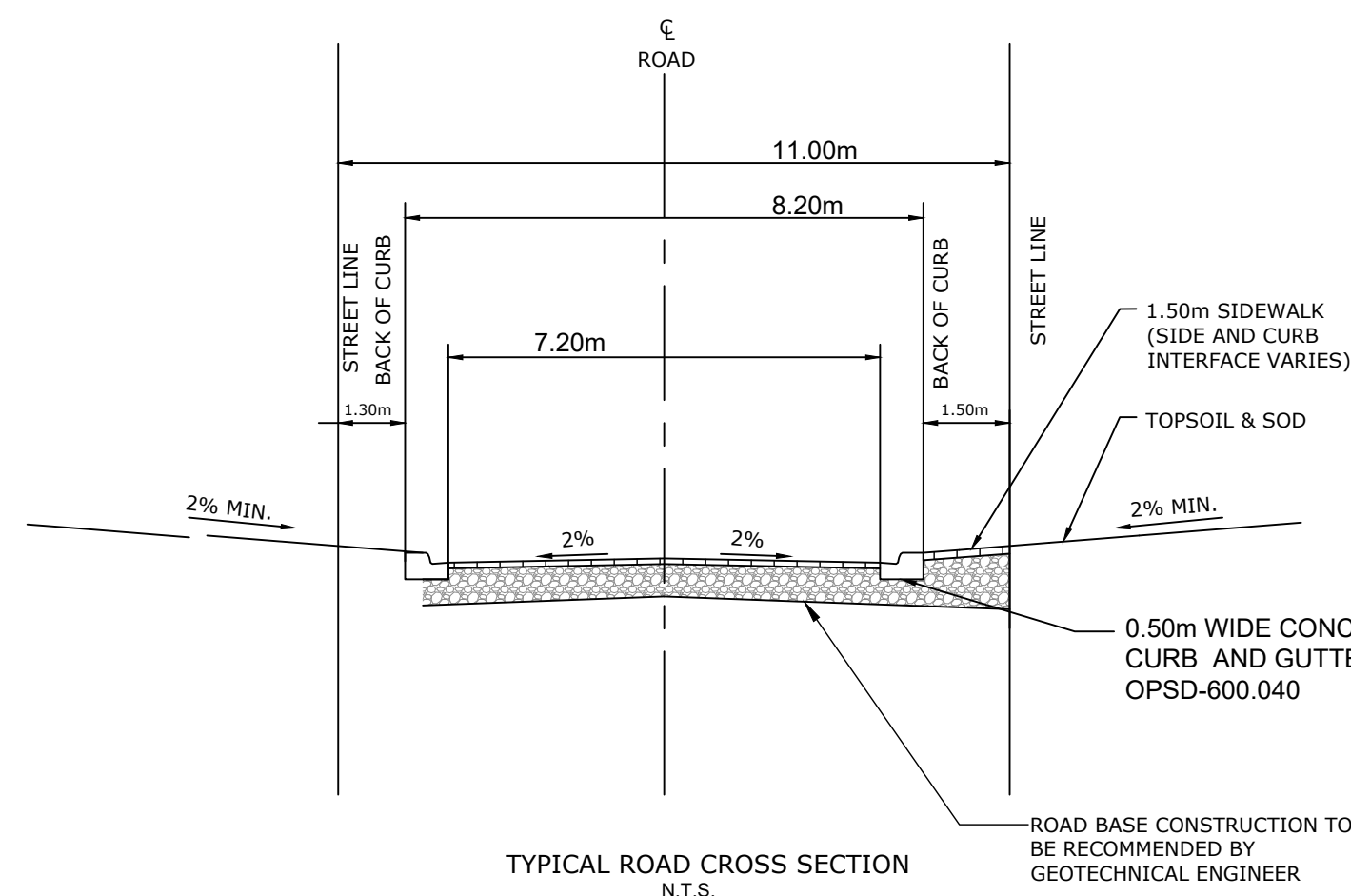
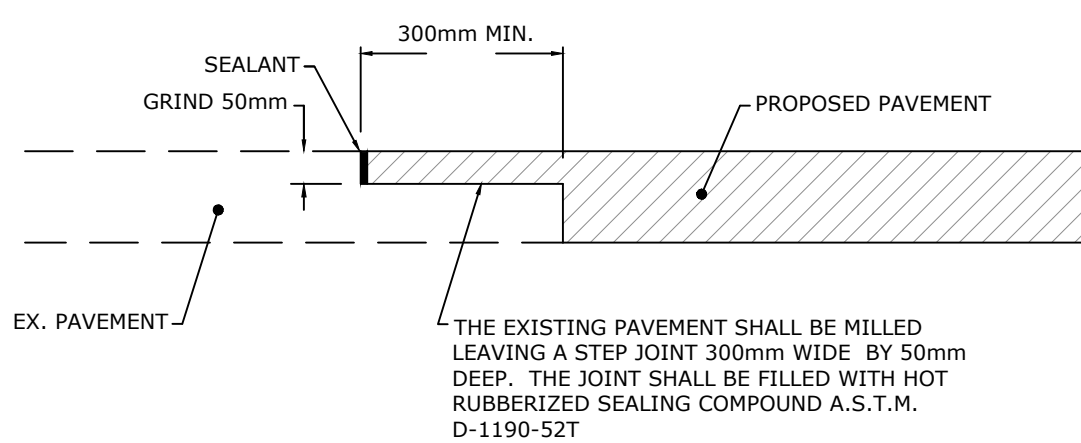
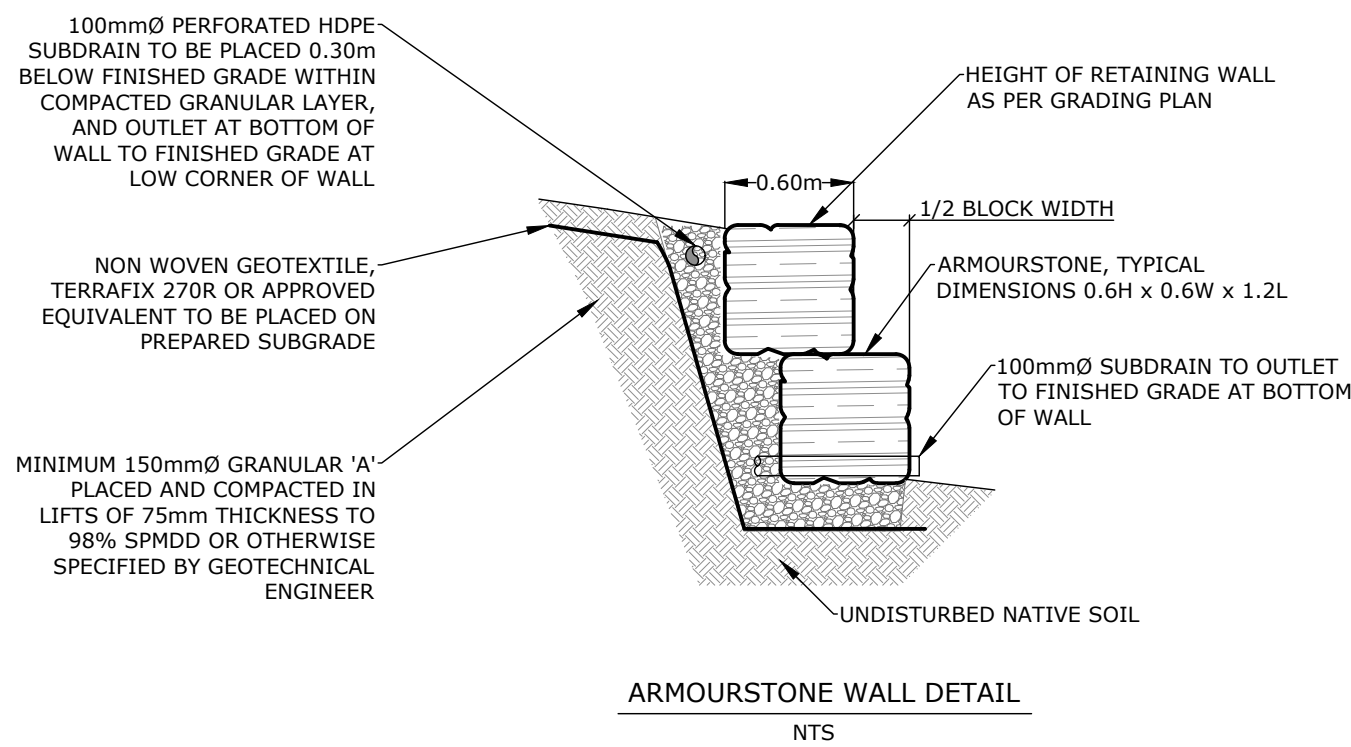
355310 BLUE MOUNTAINS - EUPHRASIA TOWNLINE
CLARKSBURG, ON N0M 1J0
TEL: 705-994-4818

BLACKMOOR GATES

STANDARD DETAILS

Designed K. GRIFFIN	Checked C. CAPES	Date 19/12/09	Drawing No.
Project No. 2019-020	Rev No. 1		
Scale 1:500			

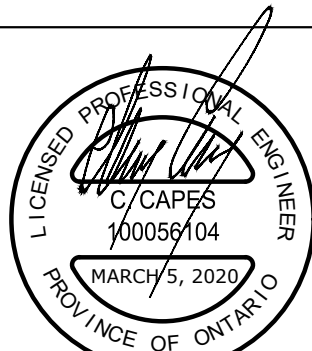
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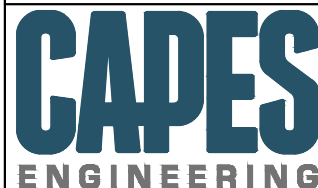
- ACCEPTED FOR
CONSTRUCTION
TOWN OF COLLINGWOOD

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Client
BLACKMOOR GATES
75 WESTMORE DRIVE
ETOBICOKE, ON
M9V 3Y6



355310 BLUE MOUNTAINS - EUPHRASIA TOWNLIN
CLARKSBURG, ON NOH 1J0
TEL: 705-994-4818

BLACKMOOR GATES
STANDARD DETAILS

Designed K. GRIFFIN	Checked C. CAPES	Date 19/12/09	Drawing No. C2
Project No. 2019-020		Rev No. 1	
Scale AS NOTED			

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