

CAUTION:
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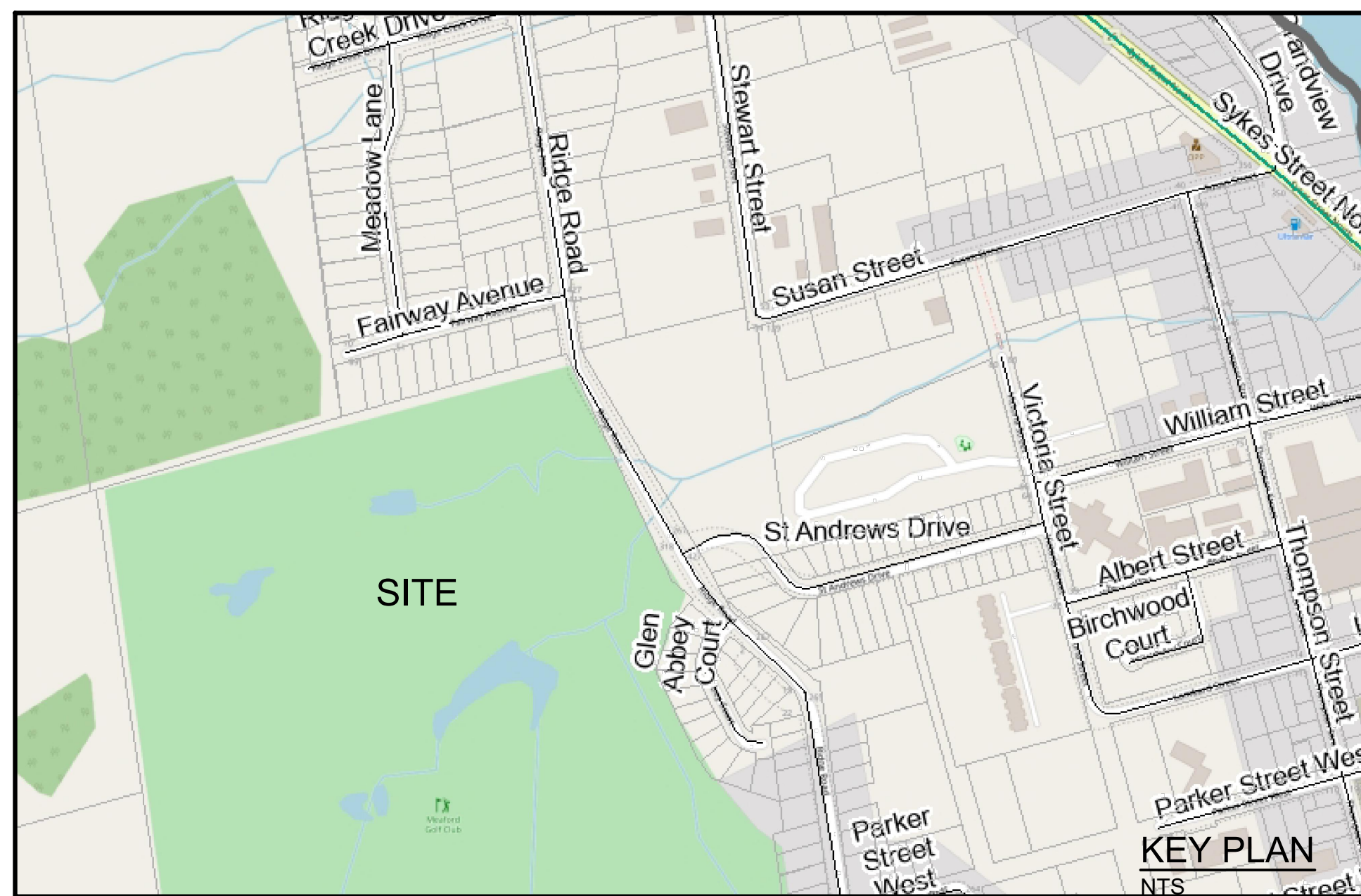
HILTON HEAD HEIGHTS - AREA B

MUNICIPALITY OF MEAFORD

CONTRACT NO. 20-02703-01

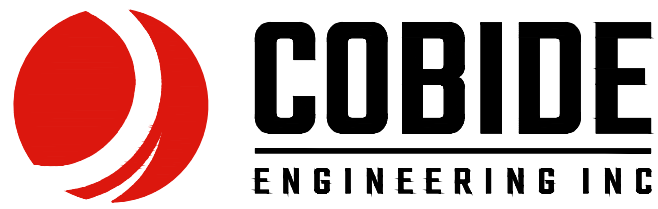
MAYOR : MS. BARB CLUMPUS
CHIEF ADMINISTRATIVE OFFICER/DIRECTOR OF DEVELOPMENT SERVICES : MR. ROB ARMSTRONG
DIRECTOR OF INFRASTRUCTURE SERVICES : MS. VICTORIA PEREJMYBIDA

OWNER :
1665426 ONTARIO INC.



index

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02703-STM1	STORM CATCHMENT AREAS
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02703-C3	<u>HILTON HEAD HEIGHTS</u> STA. 4+240 TO STA. 4+460 PLAN AND PROFILE
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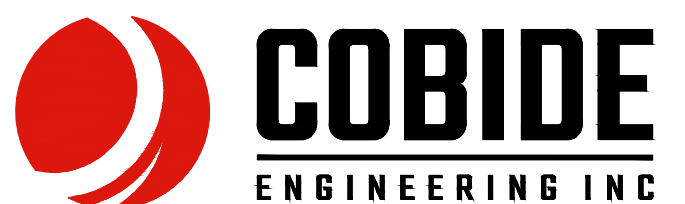
1	JUL 22/20	FIRST SUBMISSION	TLB	SJC	
No.	DATE	DESCRIPTION	BY	APPD	
REVISION / ISSUE					
Seal not valid unless signed and dated					
 517 - 10th STREET, Hanover, Ontario N4N 1R4 Telephone: (519) 506-5959 www.cobideeng.com					
Title: HILTON HEAD HEIGHTS Municipality of Meaford TITLE SHEET					
Client: 1665426 ONTARIO INC.					
Design: LFP		Scale:			
Drawn: LFP		Approved:			
Checked: TLB					
Date: JAN 2020		Design Engineer:			
DRAWING No.			02703-TS		



Notes

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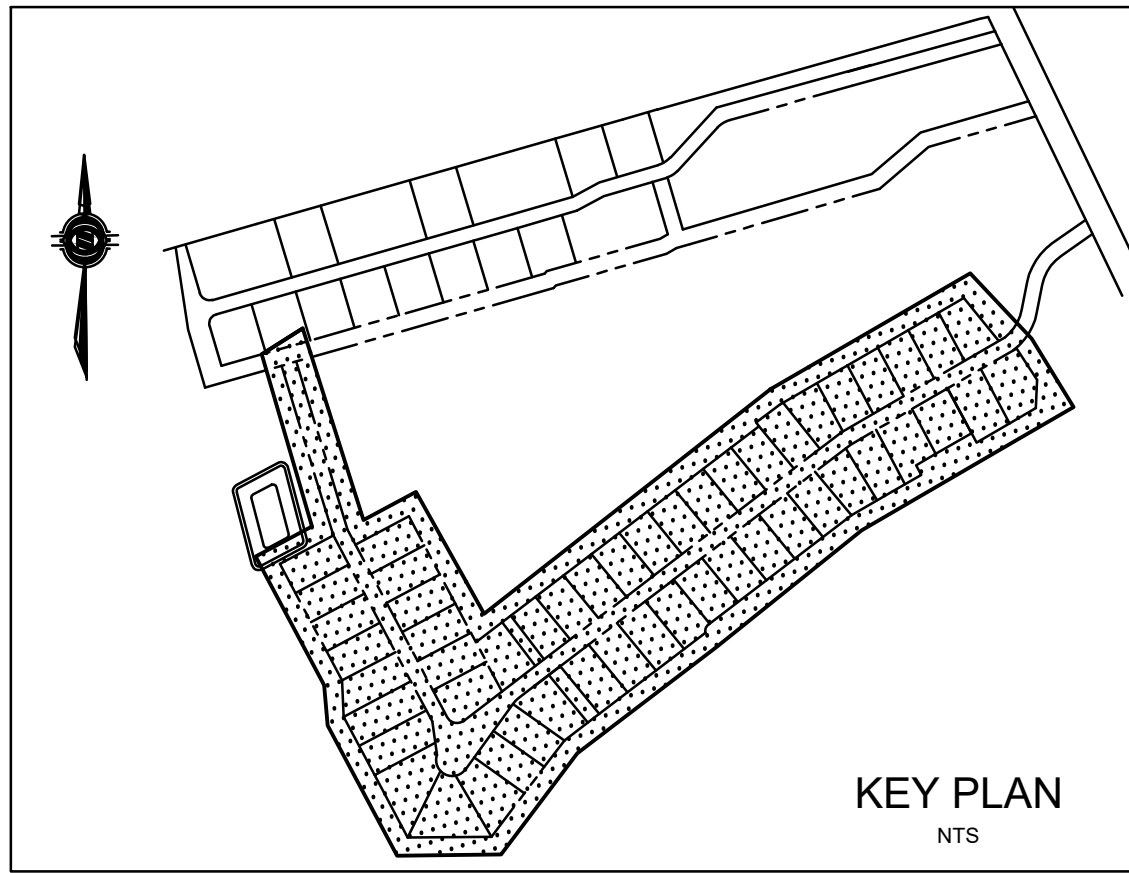
BM1	ON METAL POST SOUTH WEST CORNER OF DECK AT CLUB HOUSE. ELEVATION	197.79m
BM2	TOP OF GRATE OF SANITARY MANHOLE (SANMH-109) AT THE INTERSECTION OF THE SERVICING ACCESS ROUTE FROM AREA A AND THE SANITARY EASEMENT FOR AREA B. ELEVATION	196.61m
BM3	TOP OF SIB LOCATED ON THE SOUTH EAST CORNET OF HILTON HEAD HEIGHTS AND RIDGE ROAD. ELEVATION	193.45m

Seal not valid unless signed and dated

Title: HILTON HEAD HEIGHTS
Municipality of Meaford
HILTON HEAD HEIGHTS
GENERAL SERVICING PLAN

Design:	LFP	Scale:	1:750
Drawn:	LFP	Approved:	
Checked:	TLB		
Date:	JAN 2020		
		Design Engineer	

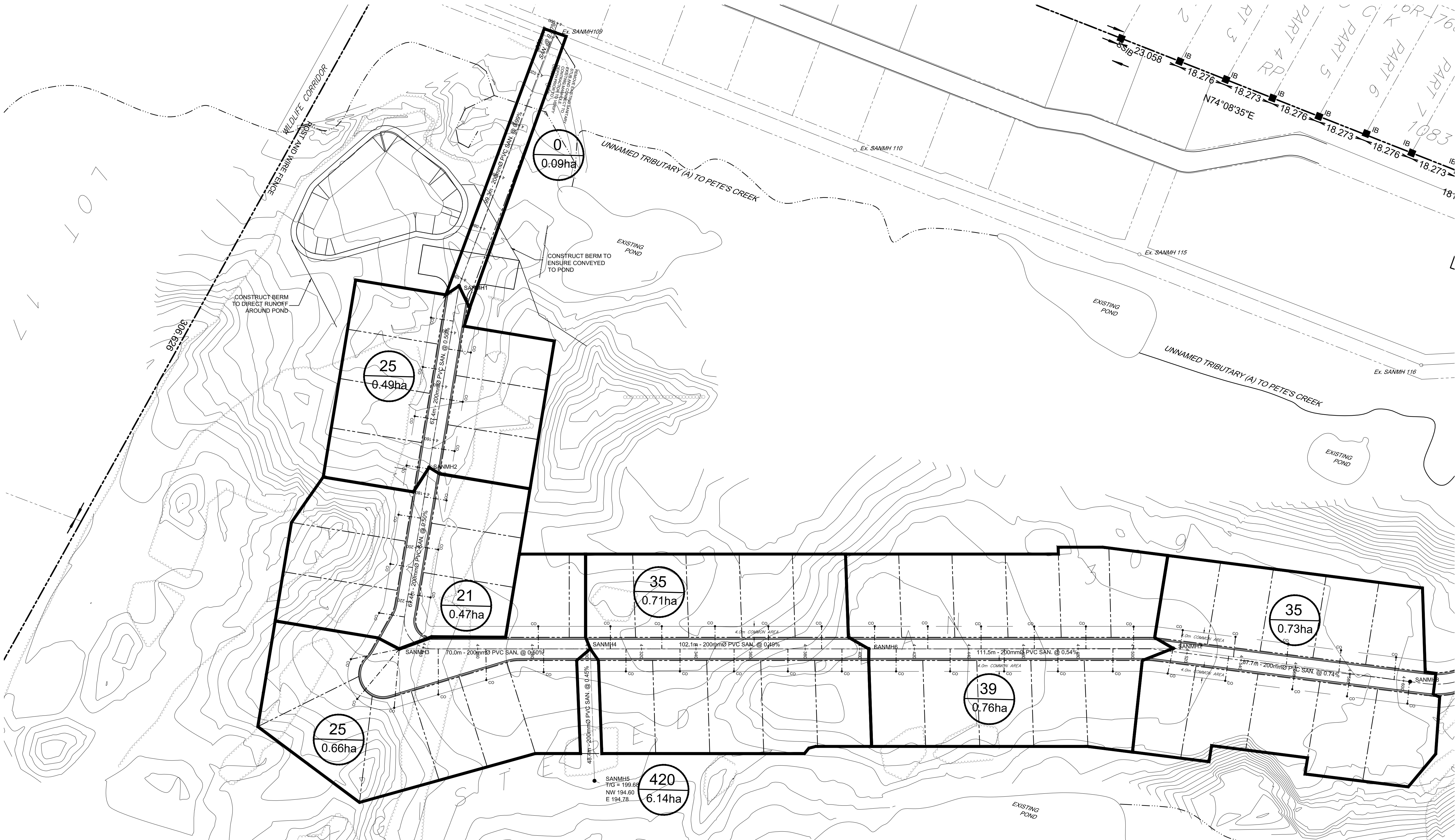
DRAWING No.	02703 -C1
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LEGEND			
	SUBDIVISION BOUNDARY		PROPOSED SANITARY MANHOLE
	PROPOSED RIGHT OF WAY		EXISTING SANITARY MANHOLE
	PROPOSED PROPERTY LINES		EXISTING STORM MANHOLE
	EDGE OF EXISTING PAVEMENT		PROPOSED CATCHBASIN MANHOLE
	EDGE OF EXISTING GRAVEL		PROPOSED TWIN INLET CATCHBASIN MANHOLE
	PROPOSED SANITARY SEWER		PROPOSED TWIN INLET CATCHBASIN
	PROPOSED STORM SEWER		PROPOSED CATCH BASIN
	EXISTING SANITARY SEWER		EXISTING CATCH BASIN
	EXISTING STORM SEWER		PROPOSED DITCH INLET CATCHBASIN
	PROPOSED SUBDRAIN		PROPOSED SANITARY SERVICE CLEANOUT
	PROPOSED WATERMAIN		PROPOSED CURB STOP VALVE
	EXISTING WATERMAIN		EXISTING CURB STOP VALVE
	PROPOSED SANITARY SERVICE		PROPOSED STORM SERVICE
	PROPOSED WATER SERVICE		PROPOSED HYDRANT SET
	EXISTING UNDERGROUND TV CABLE		EXISTING FIRE HYDRANT
	EXISTING UNDERGROUND GAS LINE		PROPOSED CAP C/W THRUST BLOCK
	EXISTING UNDERGROUND HYDRO CABLE		PROPOSED BLOWOFF
	EXISTING UNDERGROUND TELEPHONE CABLE		EXISTING HYDRO GUY WIRE
			EXISTING HYDRO POLE
			EXISTING CABLE TV PEDESTAL
			EXISTING TELEPHONE PEDESTAL
			STANDARD IRON BAR
			IRON BAR
			EXISTING DECIDUOUS TREE
			EXISTING CONIFEROUS TREE
			EXISTING GAS MARKER
			EXISTING WELL
			BENCHMARK
			BOREHOLE
			PROPOSED ELEVATION
			EXISTING ELEVATION
			ASPHALT REMOVAL
			PROPOSED GATE VALVE
			EXISTING GATE VALVE

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- Notes**
1. TOPOGRAPHIC INFORMATION DERIVED FROM FIELD SURVEY BY COBIDE ENGINEERING INC. COMPLETED ON NOV. 21, 25, AND DEC. 12, 2019.
 2. SEE SHEET DET1 FOR TYPICAL ROAD CROSS SECTIONS AND PAVEMENT DESIGN.
 3. ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.
 4. COVER OVER WATERMAIN 1.8m MINIMUM AT ALL POINTS INCLUDING WATER SERVICES. WATER SERVICES TO GO UNDER STORM SEWER WHERE 1.8m COVER CANNOT BE ACHIEVED BY GOING OVER TOP. STORM SEWERS UP TO AND INCLUDING 900mm SHALL BE BOSS 2000. ALL STORM SEWERS 1050mm AND LARGER TO BE BOSS 3000.
 5. STORM SEWERS TO BE PERFORATED HOPE 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.
 6. SANITARY SEWER TO BE PVC SDR 35.
 7. ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP OF 300mm.
 8. MAINTAIN 2.5m CLEARANCE BETWEEN STORM/SANITARY SEWER AND WATERMAIN.
 9. ALL WATERMAINS TO BE PVC DR 18 WITH 19mm REHAU MUNICIPEX SERVICE TUBING FOR WATER SERVICES.
 10. WATER SERVICES TO BE INSTALLED UNDER STORM SEWERS.
 11. ALL HYDRANT SETS REQUIRE TEST POINT AND HYDRANT MARKER.
 12. ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO ABOVE SECTION BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
 13. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL STAMPED ISSUED FOR CONSTRUCTION.
 14. ALL CONSTRUCTION TO BE COMPLETED TO MUNICIPALITY OF MEAFORD ENGINEERING STANDARDS.



Benchmark Information

BM1	ON METAL POST SOUTH WEST CORNER OF DECK AT CLUB HOUSE.	197.79m
BM2	TOP OF GRATE OF SANITARY MANHOLE (SANMH4-109) AT THE INTERSECTION OF THE SERVING ACCESS ROUTE FROM AREA A AND THE SANITARY EASEMENT FOR AREA B.	196.61m
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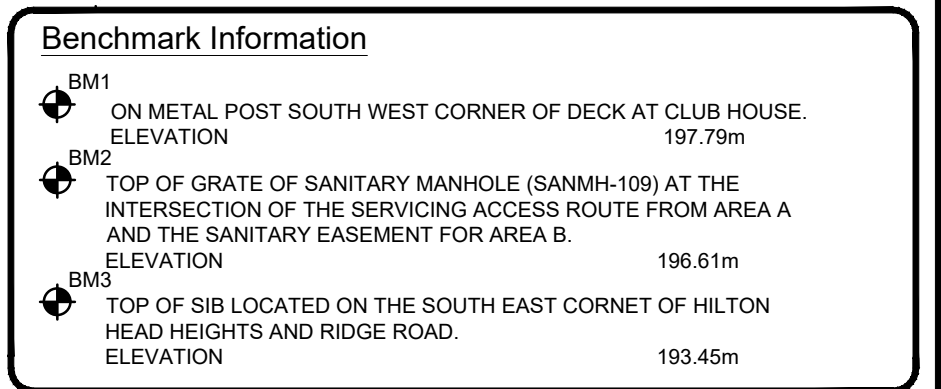
1	JUL 22/20	FIRST SUBMISSION	TLB	SJC
No.	DATE	DESCRIPTION	BY	APPD
REVISION / ISSUE				



HILTON HEAD HEIGHTS
Municipality of Meaford
HILTON HEAD HEIGHTS
SANITARY DRAINAGE PLAN

Client:		1665426 ONTARIO INC.	
Design:	LFP	Scale:	1:750
Drawn:	LFP	Approved:	
Checked:	TLB		
Date:	JAN 2020		
DRAWING No.		02703 -SAN1	
		Design Engineer	

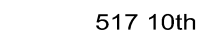
KEY PLAN
NTS



1	JUL 22/20	FIRST SUBMISSION	TLB	SJC	
No.	DATE	DESCRIPTION	BY	APPD	
REVISION / ISSUE					

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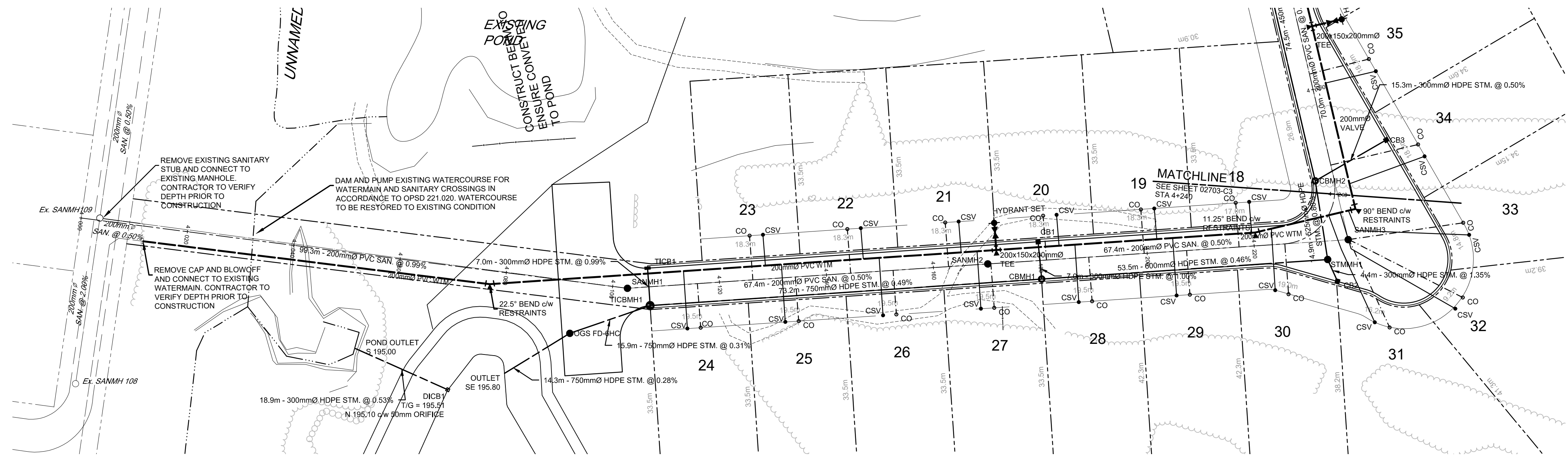


COBIDE
ENGINEERING INC

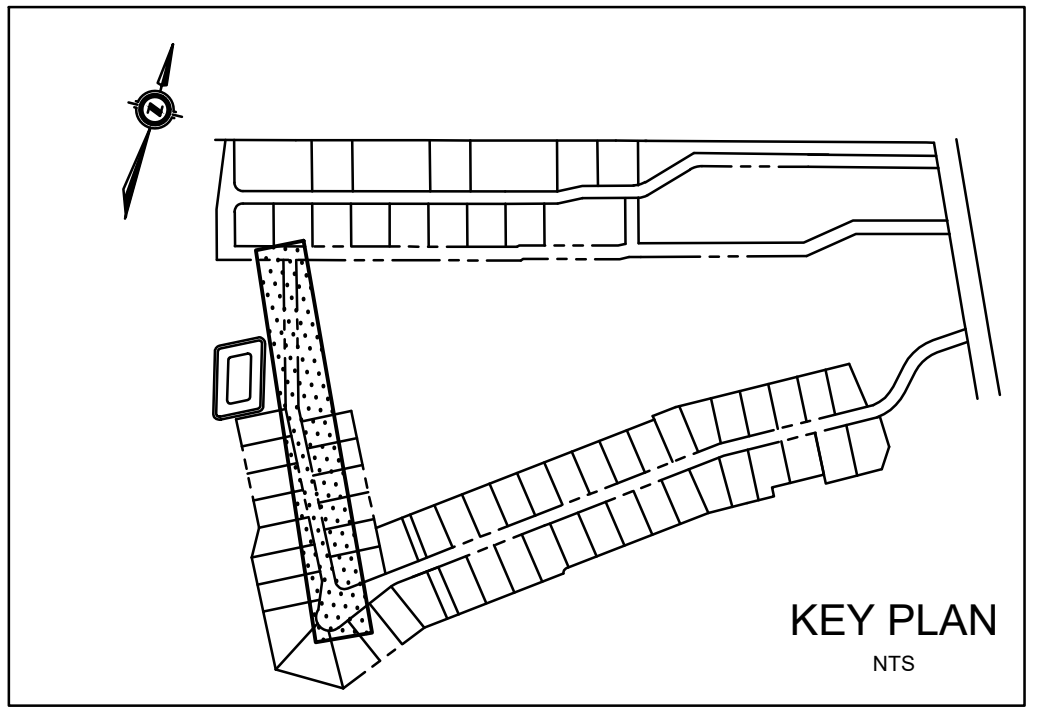
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title: HILTON HEAD HEIGHTS
Municipality of Meaford
HILTON HEAD HEIGHTS
STORM DRAINAGE PLAN

Client:		1665426 ONTARIO INC.	
Design:	LFP	Scale:	1:750
Drawn:	LFP	Approved:	
Checked:	TLB		
Date:	JAN 2020		Design Engineer
DRAWING No.		02703 -STM1	



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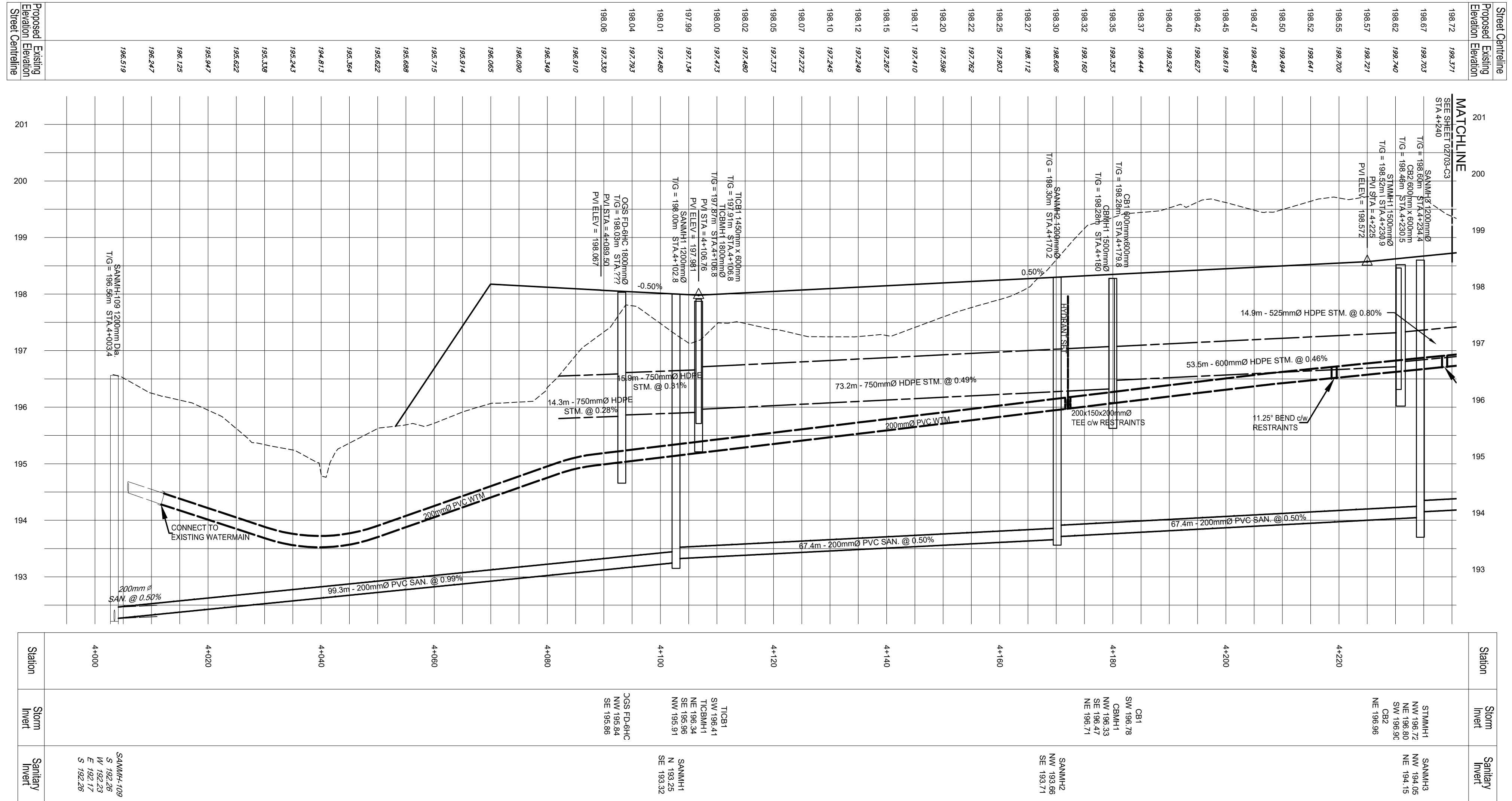
HILTON HEAD HEIGHTS

MAINTAIN MIN. 2.5m HORIZONTAL SEPARATION DISTANCE AND 0.5m VERTICAL SEPARATION DISTANCE BETWEEN WATERMAIN AND SANITARY/STORM SEWERS INCLUDING ALL CATCHBASIN LEADS EQUAL TO OR GREATER THAN 250mm IN DIAMETER

GEOTEXTILE CLOTH TO BE INSTALLED UNDER ALL CB AND CBMH GRATES AND TO REMAIN IN PLACE UNTIL ROAD PAVING IS COMPLETED

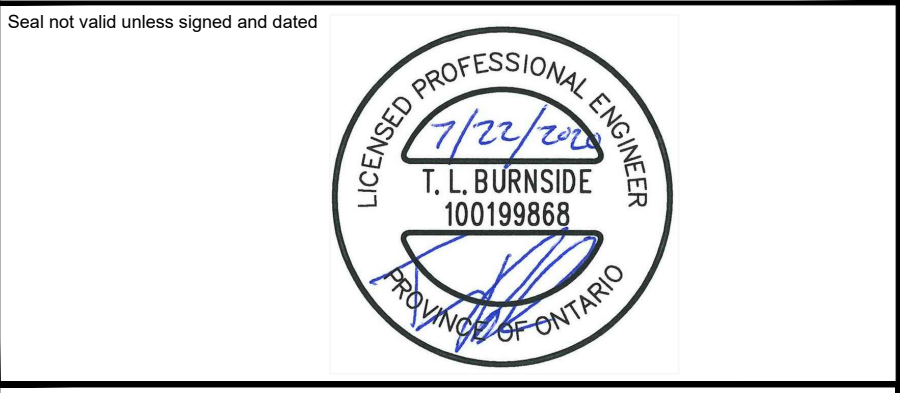
LEGEND

SUBDIVISION BOUNDARY	SANMH	PROPOSED SANITARY MANHOLE	EXISTING HYDRO GUY WIRE
PROPOSED RIGHT OF WAY	SANMH	EXISTING SANITARY MANHOLE	EXISTING HYDRO POLE
PROPOSED PROPERTY LINES	STMMH	PROPOSED STORM MANHOLE	EXISTING CABLE TV PEDESTAL
EDGE OF EXISTING PAVEMENT	STMMH	EXISTING STORM MANHOLE	EXISTING TELEPHONE PEDESTAL
EDGE OF EXISTING GRAVEL	CBMH	PROPOSED CATCHBASIN MANHOLE	STANDARD IRON BAR
PROPOSED SANITARY SEWER	ICBMH	PROPOSED TWIN INLET CATCHBASIN MANHOLE	EXISTING DECIDUOUS TREE
EXISTING SANITARY SEWER	TICB	PROPOSED TWIN INLET CATCHBASIN	EXISTING CONIFEROUS TREE
PROPOSED STORM SEWER	CB	PROPOSED CATCH BASIN	EXISTING GAS MARKER
EXISTING STORM SEWER	CB	EXISTING CATCH BASIN	EXISTING WELL
PROPOSED SUBDRAIN	DICB	PROPOSED DITCH INLET CATCHBASIN	BENCHMARK
PROPOSED WATERMAIN	CO	PROPOSED SANITARY SERVICE CLEANOUT	BOREHOLE
EXISTING WATERMAIN	CSV	PROPOSED CURB STOP VALVE	PROPOSED ELEVATION
PROPOSED SANITARY SERVICE	CSV	EXISTING CURB STOP VALVE	EXISTING ELEVATION
PROPOSED WATER SERVICE	STM	PROPOSED STORM SERVICE	ASPHALT REMOVAL
CATV	STM	EXISTING STORM SERVICE	PROPOSED GATE VALVE
GAS	STM	EXISTING FIRE HYDRANT	EXISTING GATE VALVE
H	STM	PROPOSED CAP CW THRUST BLOCK	
T	STM	PROPOSED BLOWOFF	



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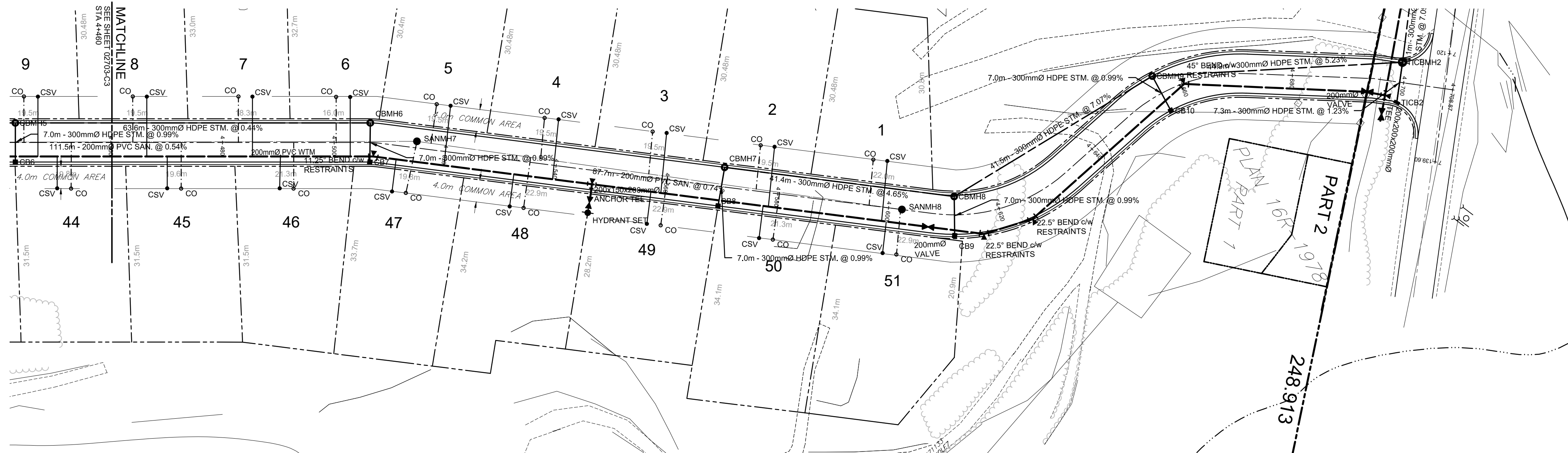
COBIDE ENGINEERING INC.
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title: **HILTON HEAD HEIGHTS Municipality of Meaford HILTON HEAD HEIGHTS PLAN AND PROFILE STA. 4+000 TO STA. 4+240**

Client: **1665426 ONTARIO INC.**

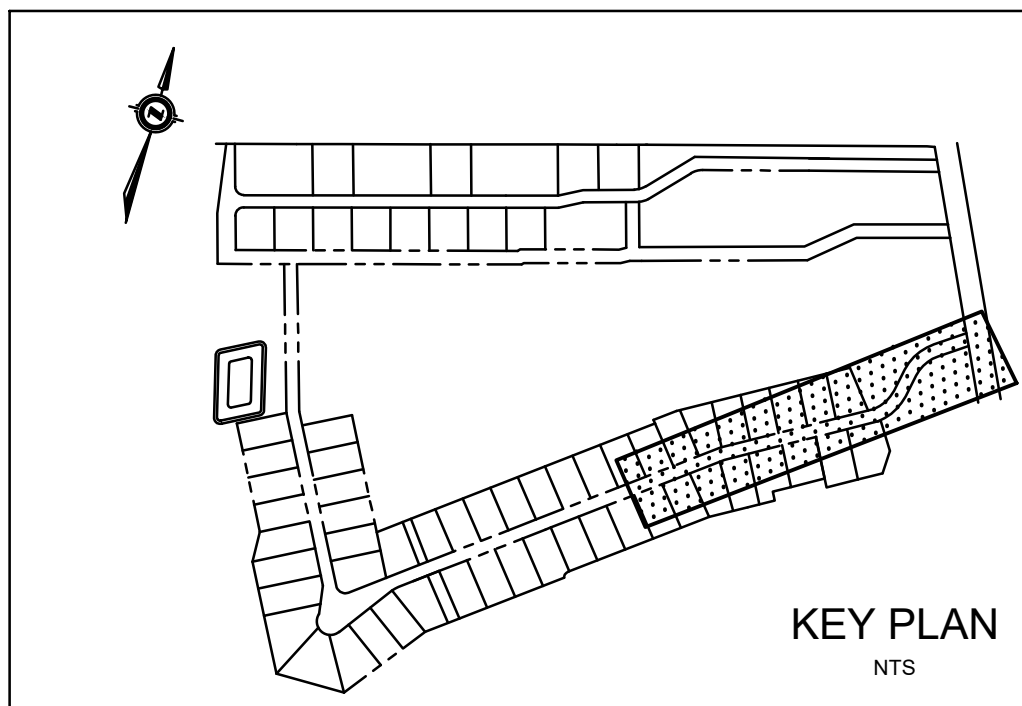
Design: LFP	Scale: H 1:500 V 1:50
Drawn: LFP	Approved:
Checked: TLB	
Date: JAN 2020	Design Engineer

DRAWING No. **02703 -C2**



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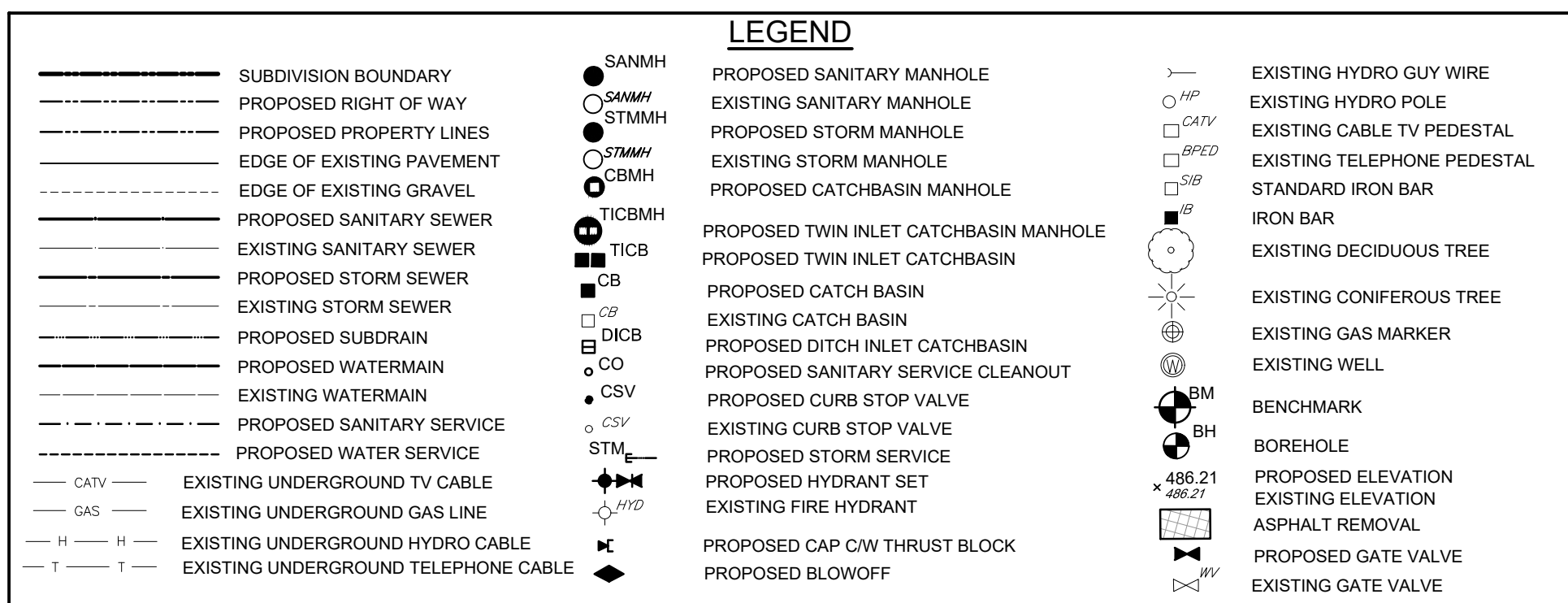
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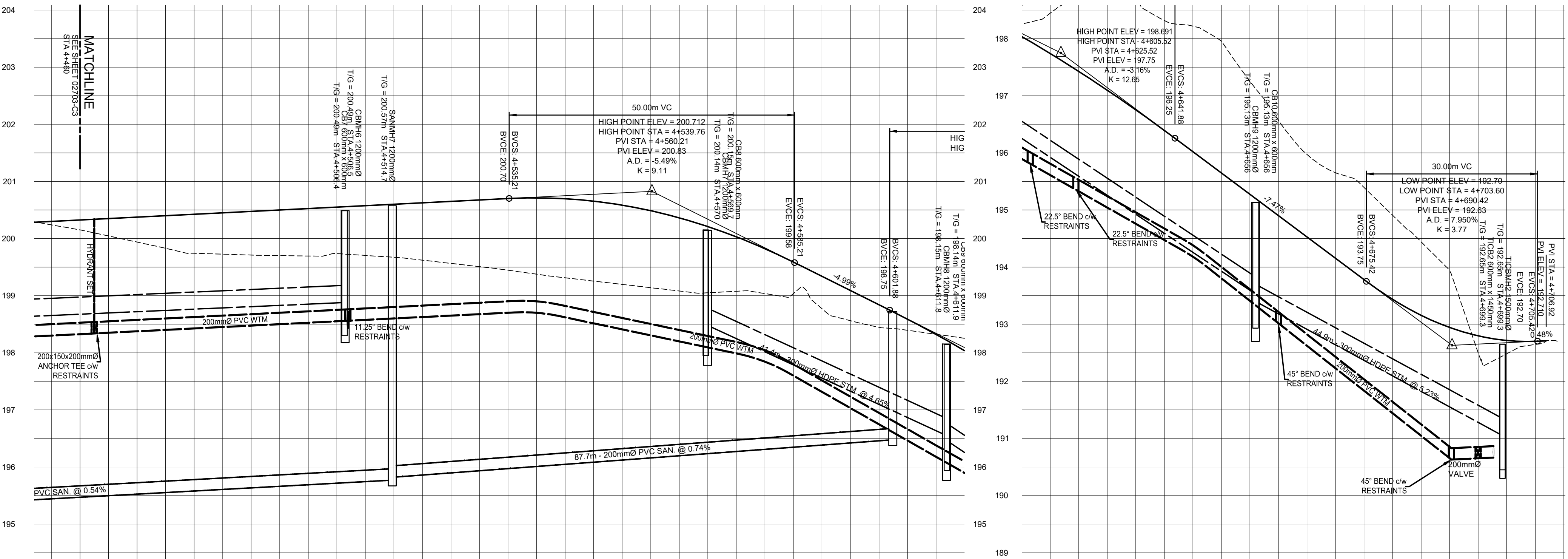
HILTON HEAD HEIGHTS

MAINTAIN MIN. 2.5m HORIZONTAL SEPARATION
DISTANCE BETWEEN WATERMAIN AND
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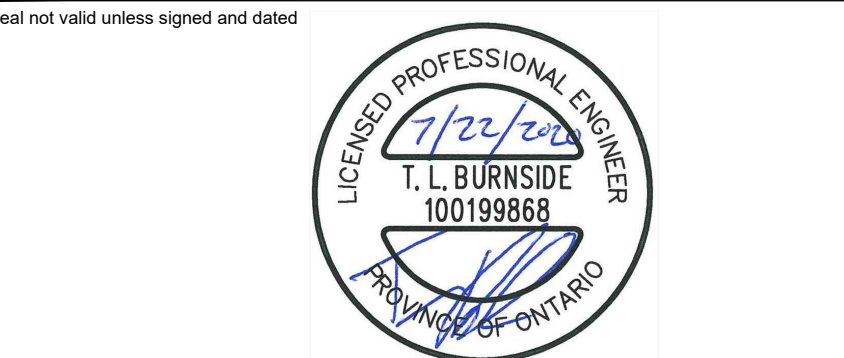
Street Centreline	Proposed Elevation	Existing Elevation
200.30	198.29	
200.32	198.32	
200.35	198.35	
200.37	198.37	
200.40	198.40	
200.42	198.42	
200.45	198.45	
200.47	198.47	
200.50	198.50	
200.52	198.52	
200.55	198.55	
200.57	198.57	
200.60	198.60	
200.62	198.62	
200.65	198.65	
200.67	198.67	
200.70	198.70	
200.72	198.72	
200.75	198.75	
200.78	198.78	
200.80	198.80	
200.82	198.82	
200.85	198.85	
200.87	198.87	
200.90	198.90	
200.92	198.92	
200.95	198.95	
200.97	198.97	
201.00	199.00	
201.02	199.02	
201.05	199.05	
201.07	199.07	
201.10	199.10	
201.12	199.12	
201.15	199.15	
201.17	199.17	
201.20	199.20	
201.22	199.22	
201.25	199.25	
201.27	199.27	
201.30	199.30	
201.32	199.32	
201.35	199.35	
201.37	199.37	
201.40	199.40	
201.42	199.42	
201.45	199.45	
201.47	199.47	
201.50	199.50	
201.52	199.52	
201.55	199.55	
201.57	199.57	
201.60	199.60	
201.62	199.62	
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201.77	199.77	
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201.82	199.82	
201.85	199.85	
201.87	199.87	
201.90	199.90	
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202.05	200.05	
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202.17	200.17	
202.20	200.20	
202.22	200.22	
202.25	200.25	
202.27	200.27	
202.30	200.30	



Station	Storm Invert	Sanitary Invert
4+460		
4+480		
4+500		
4+520		
4+540		
4+560		
4+580		
4+600		
4+620		
4+640		
4+660		
4+680		
4+700		

Benchmark Information			
BM1	ON METAL POST SOUTH WEST CORNER OF DECK AT CLUB HOUSE.	ELEVATION	197.79m
BM2	TOP OF GRATE OF SANITARY MANHOLE (SANMH-109) AT THE INTERSECTION OF THE SERVICING ACCESS ROUTE FROM AREA A AND THE SANITARY EASEMENT FOR AREA B.	ELEVATION	196.61m
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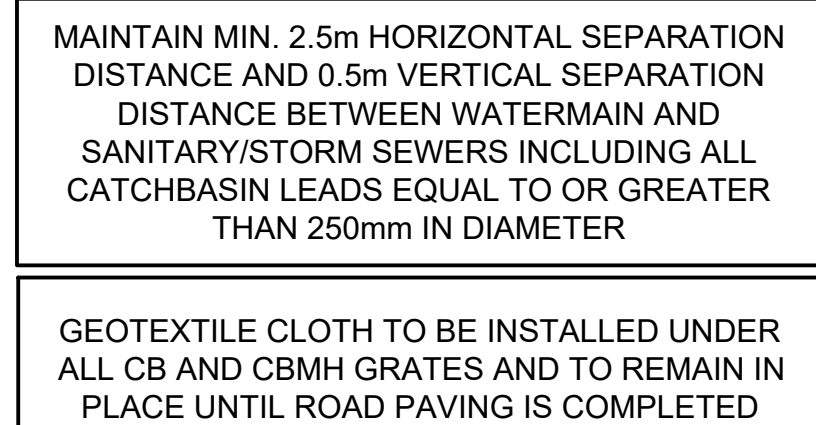
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REVISION / ISSUE				



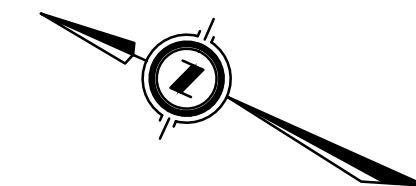
Title:		HILTON HEAD HEIGHTS Municipality of Meaford HILTON HEAD HEIGHTS PLAN AND PROFILE STA. 4+460 TO STA. 4+700	
Client:		1665426 ONTARIO INC.	
Design:	LFP	Scale:	H 1:500 V 1:50
Drawn:	LFP	Approved:	
Checked:	TLB		
Date:	JAN 2020		
DRAWING No.		02703 -C4	

Notes

1. TOPOGRAPHIC INFORMATION DERIVED FROM FIELD SURVEY BY COBIDE ENGINEERING INC. COMPLETED ON NOV. 21, 25 AND DEC. 12, 2019
2. SEE SHEET DET 1 FOR TYPICAL ROAD CROSS SECTIONS AND PAVEMENT DESIGN.
3. ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.
4. COVER OVER WATERMAIN 1.8m MINIMUM AT ALL POINTS INCLUDING UNDER SERVICE TUBING. SERVICE TUBING SHALL BE COVERED OVER WHERE 1.8m COVER CANNOT BE ACHIEVED BY GOING OVER TOP OF STORM SEWERS UP TO AND INCLUDING 900mm SD SHALL BE BOSS 2000. ALL STORM SEWERS 1050mm and LARGER TO BE BOSS 3000.
5. STORM SEWER SERVICE TUBING SHALL BE 100% HDPE 100% WASHED CLEAR STORM WRAPPED IN NON-WOVEN GEOTEXTILE EXCEPT 3M ENTERING AND EXITING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL SHEET.
6. SANITARY SEWER TO BE PVC SDR 35
7. ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm and 1.2m TO STORM MAINS TO HAVE A MINIMUM SUMP OF 300mm.
8. MAINTAIN 2.50m CLEARANCE BETWEEN STORM/SANITARY SEWER AND WATERMAIN.
9. ALL WATERMANS TO BE PVC DR 18 WITH 19mm REHAU/MUNICIPEX SERVICE TUBING FOR WATER SERVICES.
10. WATER SERVICES TO BE INSTALLED UNDER STORM SEWERS.
11. ALL HYDRANT SITS REQUIRE TEST POINT AND HYDRANT MARKER.
12. ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD. INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO ABOVE SECTION BEING INSTALLED. CAULKING TO BE SIXKAFLEX 1A OR APPROVED EQUIVALENT.
13. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL STAMPED ISSUED FOR CONSTRUCTION.
14. ALL CONSTRUCTION TO BE COMPLETED TO MUNICIPALITY OF MEAFORD ENGINEERING STANDARDS.



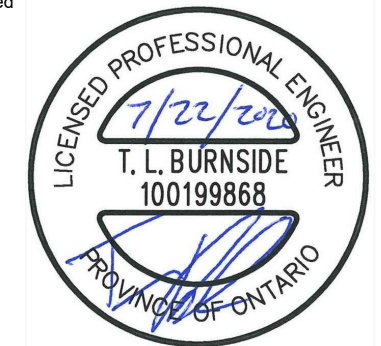
		LEGEND			
=====	SUBDIVISION BOUNDARY	● SANMH	—	EXISTING HYDRO GUY WIRE	
=====	PROPOSED RIGHT OF WAY	● SANMH	○ HP	EXISTING HYDRO POLE	
=====	PROPOSED PROPERTY LINES	● STMH	○ CATV	EXISTING CABLE TV PEDESTAL	
=====	EDGE OF EXISTING PAVEMENT	● STMH	□ RPCTD	EXISTING TELEPHONE PEDESTAL	
=====	EDGE OF EXISTING GRAVEL	● CBMH	○ RP	STANDARD IRON BAR	
=====	PROPOSED SANITARY SEWER	● TICBMH	○	IRON BAR	
=====	EXISTING SANITARY SEWER	● TICB	○	EXISTING DECIDUOUS TREE	
=====	PROPOSED STORM SEWER	● CB	○	EXISTING CONIFEROUS TREE	
=====	EXISTING STORM SEWER	● CR	○	EXISTING GAS MARKER	
=====	PROPOSED SUBDRAIN	● DICB	○	EXISTING WELL	
=====	PROPOSED WATERMAIN	● CO	○	BENCHMARK	
=====	EXISTING WATERMAIN	● CSV	○	BOREHOLE	
=====	PROPOSED SANITARY SERVICE	○ CSV	○	PROPOSED ELEVATION	
=====	PROPOSED WATER SERVICE	○ STM	○	EXISTING ELEVATION	
----- CATV -----	EXISTING UNDERGROUND TV CABLE	○ STM	○	ASPHALT REMOVAL	
----- GAS -----	EXISTING UNDERGROUND GAS LINE	○ STM	○	PROPOSED GATE VALVE	
----- H -----	EXISTING UNDERGROUND HYDRO CABLE	○ STM	○	EXISTING GATE VALVE	
----- T -----	EXISTING UNDERGROUND TELEPHONE CABLE	○ STM	○		



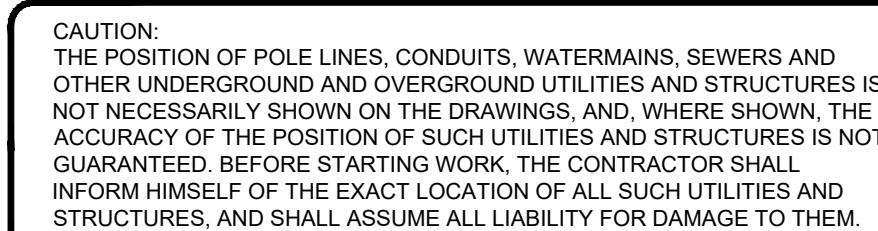
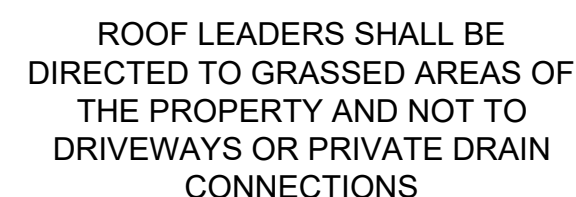
Station	Sum Invert	Sanitary Invert
7+160		
7+140		
7+120		
7+100		
7+080		
7+060		
7+040		
7+020		
Station	Sum Invert	Sanitary Invert

Benchmark Information	
BM1	ON METAL POST SOUTH WEST CORNER OF DECK AT CLUB HOUSE. ELEVATION 197.79m
BM2	TOP OF GRATE OF SANITARY MANHOLE (SANMH-100) AT THE INTERSECTION OF THE SERVING ACCESS ROUTE FROM AREA A AND THE SANITARY EASEMENT FOR AREA B. ELEVATION 196.61m
BM3	TOP OF SIB LOCATED ON THE SOUTH EAST CORNET OF HILTON HEAD HEIGHTS AND RIDGE ROAD. ELEVATION 193.45m

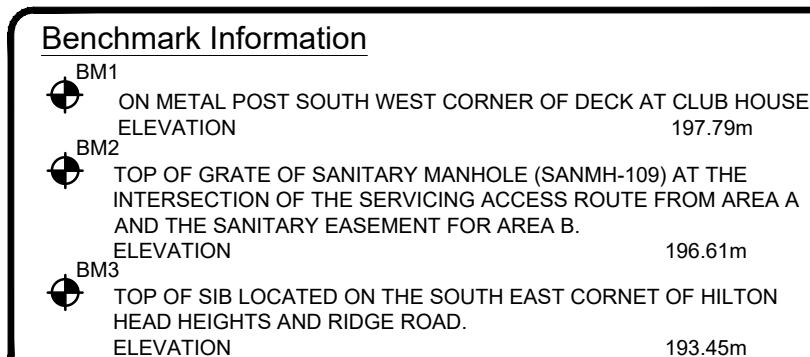
1	JUL 22/20	FIRST SUBMISSION	TLB	SJC
No.	DATE	DESCRIPTION	BY	APPD
REVISION / ISSUE				



Title:		HILTON HEAD HEIGHTS Municipality of Meaford RIDGE ROAD PLAN AND PROFILE STA. 7+040 TO STA. 7+140	
Client:		1665426 ONTARIO INC.	
Design:	LFP	Scale:	H 1:500 V 1:50
Drawn:	LFP	Approved:	
Checked:	TLB		
Date:	JAN 2020		Design Engineer
DRAWING No.		02703 -C5	



- ## Notes
1. TOPOGRAPHIC INFORMATION DERIVED FROM FIELD SURVEY BY COBIDE ENGINEERING INC. COMPLETED ON NOV. 21, 25, AND DEC. 12, 2019. SEE SHEET DET1 FOR TYPICAL ROAD CROSS SECTIONS AND PAVER DESIGN.
 2. ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD DESIGN.
 3. COVER OVER WATERMAIN 1.8m MINIMUM AT ALL POINTS INCLUDING WATER SERVICES. WATER SERVICES TO GO UNDER STORM SEWER AND COVER OVER WATERMAIN TO BE COVERED BY 6mm MINIMUM THICKNESS. ALL STORM SEWERS UP TO AND INCLUDING 900mmØ SHALL BE BOSS 2000, ALL STORM SEWERS 1050mmØ AND LARGER TO BE BOSS 3000.
 4. ALL WATER SERVICES TO BE COVERED BY 6mm MINIMUM THICKNESS CLEAR STONE WRAPPED IN NON-WOVEN GEOTEXTILE EXCEPT 3" ENTERING AND EXISTING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL 100-1.
 5. SANITARY SEWER TO BE PVC SDR 35
 6. ALL STORM CATCHBASINS TO HAVE A MINIMUM SLUMP OF 600mm and ALL STORM MANHOLES TO HAVE A MINIMUM SLUMP OF 300mm.
 7. MAINTAIN 150mm CLEARANCE BETWEEN STORM SANITARY SEWER AND WATERMAIN.
 8. ALL WATERMANS TO BE PVC DR 18" WITH 19mmØ REHAU MUNICIPLEX SERVING FOR COVER.
 9. WATER SERVICES TO BE INSTALLED UNDER STORM SEWERS.
 10. ALL HYDRANT SETS REQUIRE TEST POINT AND HYDRANT MARKER
 11. JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mmØ BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO ABOVE SECTION BEING INSTALLED. CAULKING TO BE SIXKALF 14 OR EQUIVALENT.
 12. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL STAMPED /ISSUED FOR CONSTRUCTION
 13. ALL CONSTRUCTION TO BE COMPLETED TO MEASUREMENT OF MEAFORD ENGINEERING STANDARDS.



1	JUL 22/20	FIRST SUBMISSION	TLB	S.
No.	DATE	DESCRIPTION	BY	AP
REVISION / ISSUE				



Title: HILTON HEAD HEIGHTS
Municipality of Meaford
HILTON HEAD HEIGHTS
LOT GRADING PLAN

Client: 1665426 ONTARIO INC

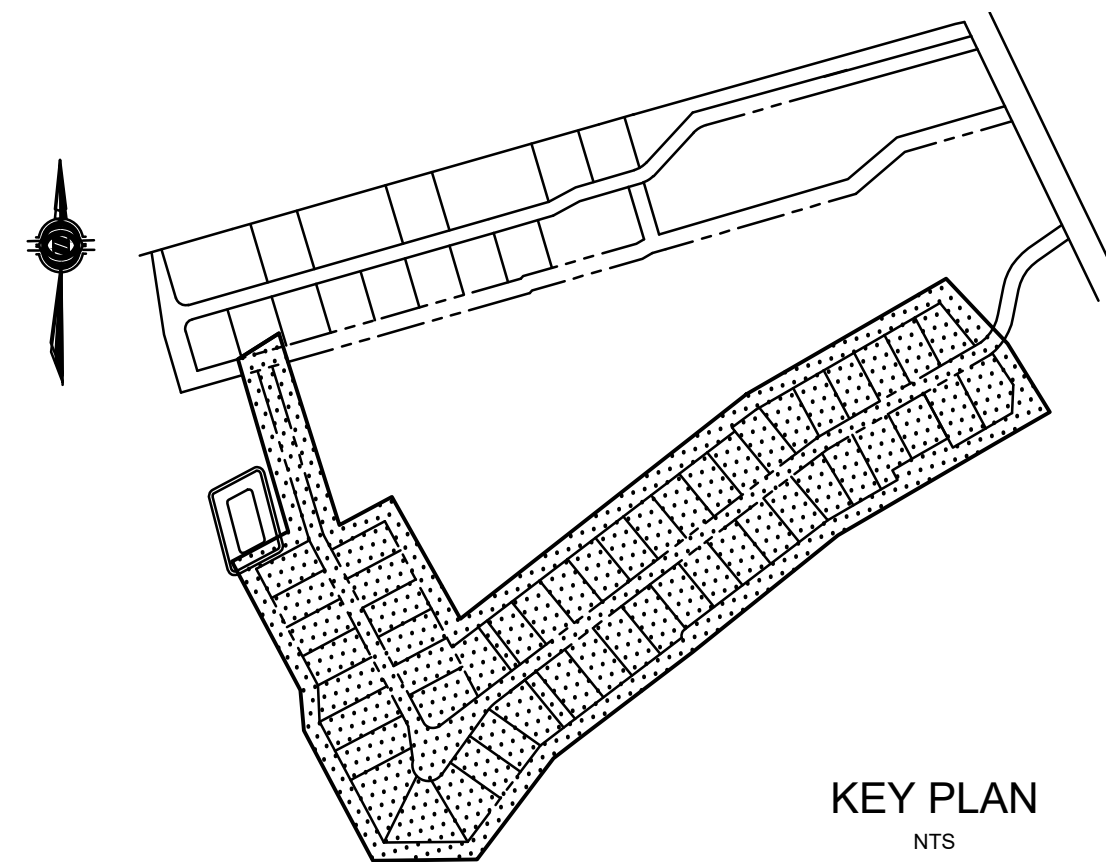
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Drawn:	LEP	Approved:
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Checked:	TJB
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Date:	JAN 2020
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DRAWING No.		02703 -C6
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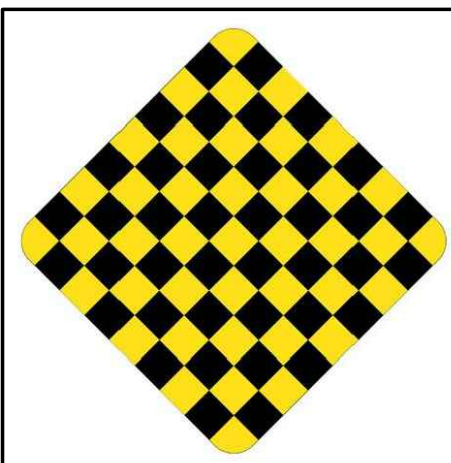
KEY PLAN
NTS



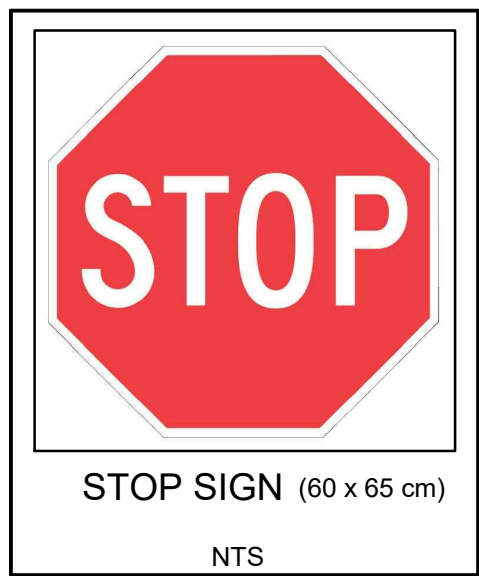
NOTE:
(60x60) cm
COLOUR: Legend & Border - Black
Background - Yellow Reflective
SUPPORT: 50mm x 3.75m TELESAR
YIELDING BREAKAWAY
INSTALL PER ONTARIO TRAFFIC MANUAL

NOTE:
W=8 (75x75) cm
COLOUR: Black & 33cm Squares,
Yellow Reflective Background.
BLANK NO: M.T.O. B-23A
SUPPORT: 50mm x 3.75m TELESAR
YIELDING BREAKAWAY
INSTALL PER ONTARIO TRAFFIC MANUAL BOOK 6 SECTION 2.

CHECKERBOARD SIGN DETAIL
NTS



LEGEND	
— SUBDIVISION BOUNDARY	● SANMH
- - - PROPOSED RIGHT OF WAY	○ SANMH
- - - PROPOSED PROPERTY LINES	○ STMMH
- - - EDGE OF EXISTING PAVEMENT	○ STMMH
- - - EDGE OF EXISTING GRAVEL	○ CBMH
- - - PROPOSED SANITARY SEWER	○ TICBMH
- - - EXISTING SANITARY SEWER	■ TICB
- - - EXISTING STORM SEWER	■ CB
- - - PROPOSED SUBRAIN	■ DICB
- - - PROPOSED WATERMAIN	○ CO
- - - EXISTING WATERMAIN	● CSV
- - - PROPOSED SANITARY SERVICE	○ STM
- - - PROPOSED WATER SERVICE	○ STM
— CATV — EXISTING UNDERGROUND TV CABLE	— CATV —
— GAS — EXISTING UNDERGROUND GAS LINE	— GAS —
— H — EXISTING UNDERGROUND HYDRO CABLE	— H —
— T — EXISTING UNDERGROUND TELEPHONE CABLE	— T —
— PROPOSED SANITARY MANHOLE	— PROPOSED CATCH BASIN
— EXISTING SANITARY MANHOLE	— EXISTING CATCH BASIN
— EXISTING STORM MANHOLE	— PROPOSED DITCH INLET CATCHBASIN
— PROPOSED CATCHBASIN MANHOLE	— PROPOSED SANITARY SERVICE CLEANOUT
— PROPOSED TWIN INLET CATCHBASIN	— PROPOSED CURB STOP VALVE
— EXISTING TWIN INLET CATCHBASIN	— EXISTING CURB STOP VALVE
— EXISTING DITCH INLET CATCHBASIN	— PROPOSED STORM SERVICE
— PROPOSED SANITARY SERVICE CLEANOUT	— EXISTING HYDRANT SET
— EXISTING CURB STOP VALVE	— EXISTING FIRE HYDRANT
— EXISTING STORM SERVICE	— PROPOSED CAP C/W THRUST BLOCK
— EXISTING HYDRANT SET	— PROPOSED BLOWOFF
— EXISTING FIRE HYDRANT	
— PROPOSED CAP C/W THRUST BLOCK	
— PROPOSED BLOWOFF	
— EXISTING HYDRO GUY WIRE	
— EXISTING HYDRO POLE	
— EXISTING CABLE TV PEDESTAL	
— EXISTING TELEPHONE PEDESTAL	
— STANDARD IRON BAR	
— IRON BAR	
— EXISTING DECIDUOUS TREE	
— EXISTING CONIFEROUS TREE	
— EXISTING GAS MARKER	
— EXISTING WELL	
— BENCHMARK	
— BOREHOLE	
— PROPOSED ELEVATION	
— EXISTING ELEVATION	
— ASPHALT REMOVAL	
— PROPOSED GATE VALVE	
— EXISTING GATE VALVE	

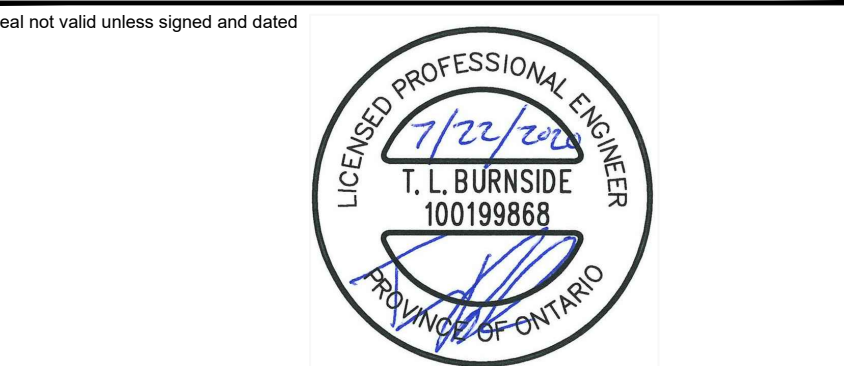


CAUTION:
THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

- Notes
1. TOPOGRAPHIC INFORMATION DERIVED FROM FIELD SURVEY BY COBIDE ENGINEERING INC. COMPLETED ON NOV. 21, 25, AND DEC. 12, 2019.
 2. SEE SHEET DET1 FOR TYPICAL ROAD CROSS SECTIONS AND PAVEMENT DESIGN.
 3. ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.
 4. COVER OVER WATERMAIN 1.8m MINIMUM AT ALL POINTS INCLUDING WATER SERVICES. WATER SERVICES TO GO UNDER STORM SEWER WHERE 1.8m COVER CANNOT BE ACHIEVED BY GOING OVER TOP. STORM SEWERS UP TO AND INCLUDING 900mm² SHALL BE BOSS 2000, ALL STORM SEWERS 1050mm² AND LARGER TO BE BOSS 3000.
 5. STORM SEWERS TO BE PERFORATED HDPE IN 50mm² WASHED CLEAR STONE WRAPPED IN NON-WOVEN GEOTEXTILE EXCEPT 3m ENTERING AND EXITING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL SHEET.
 6. SANITARY SEWER TO BE PVC SDR 35.
 7. ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP OF 300mm.
 8. MAINTAIN 2.5m CLEARANCE BETWEEN STORM SANITARY SEWER AND WATERMAIN.
 9. ALL WATERMAINS TO BE PVC DR 18 WITH 19mm² REHAU MUNICIPEX SERVICE TUBING FOR WATER SERVICES.
 10. WATER SERVICES TO BE INSTALLED UNDER STORM SEWERS.
 11. ALL HYDRANT SETS REQUIRE TEST POINT AND HYDRANT MARKER.
 12. ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO ABOVE SECTION BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
 13. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL STAMPED ISSUED FOR CONSTRUCTION.
 14. ALL CONSTRUCTION TO BE COMPLETED TO MUNICIPALITY OF MEAFORD ENGINEERING STANDARDS.

Benchmark Information			
BM1	ON METAL POST SOUTH WEST CORNER OF DECK AT CLUB HOUSE.	ELEVATION	197.79m
BM2	TOP OF GRATE OF SANITARY MANHOLE (SANMH-109) AT THE INTERSECTION OF THE SERVICING ACCESS ROUTE FROM AREA A AND THE SANITARY EASEMENT FOR AREA B.	ELEVATION	196.61m
BM3	TOP OF SIB LOCATED ON THE SOUTH EAST CORNER OF HILTON HEAD HEIGHTS AND RIDGE ROAD.	ELEVATION	193.45m

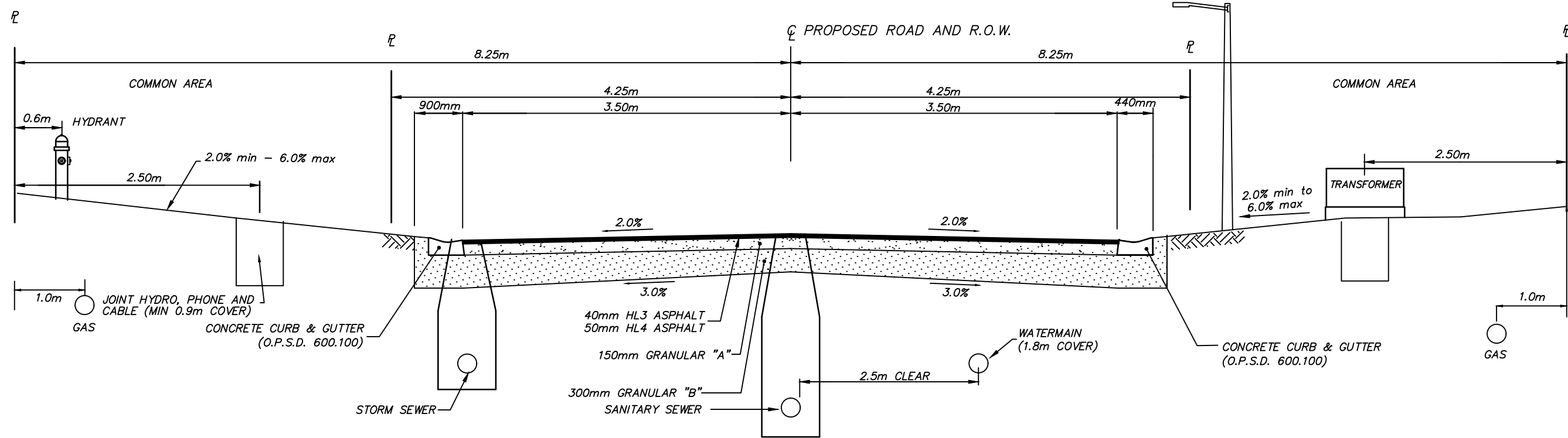
1	JUL 22/20	FIRST SUBMISSION	TLB	SJC
No.	DATE	DESCRIPTION	BY	APPD
REVISION / ISSUE				



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

Title: **HILTON HEAD HEIGHTS**
Municipality of Meaford
HILTON HEAD HEIGHTS
PAVEMENT MARKINGS AND SIGNAGE

Client:	1665426 ONTARIO INC.		
Design:	LFP	Scale:	H 1:500 V 1:50
Drawn:	LFP	Approved:	
Checked:	TLB		
Date:	JAN 2020		Design Engineer
DRAWING No.	02703 -C7		

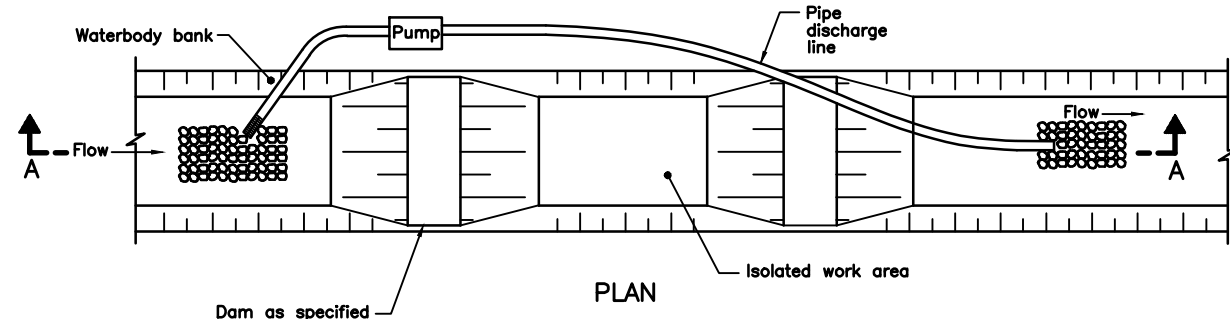


- * NOTES: 1) RESTORE GRASS AREAS WITH 100mm TOPSOIL & NURSERY SOO OR 100mm TOPSOIL, SEED & MULCH.
2) ALL TRENCHES TO BE BACKFILLED WITH GRANULAR MATERIAL (NATIVE SAND WHERE AVAILABLE)
3) ALL ORGANICS TO BE STRIPPED FROM UNDER ROADBED AND REPLACE WITH SELECT SUBGRADE MATERIAL

HILTON HEAD HEIGHTS CROSS-SECTION

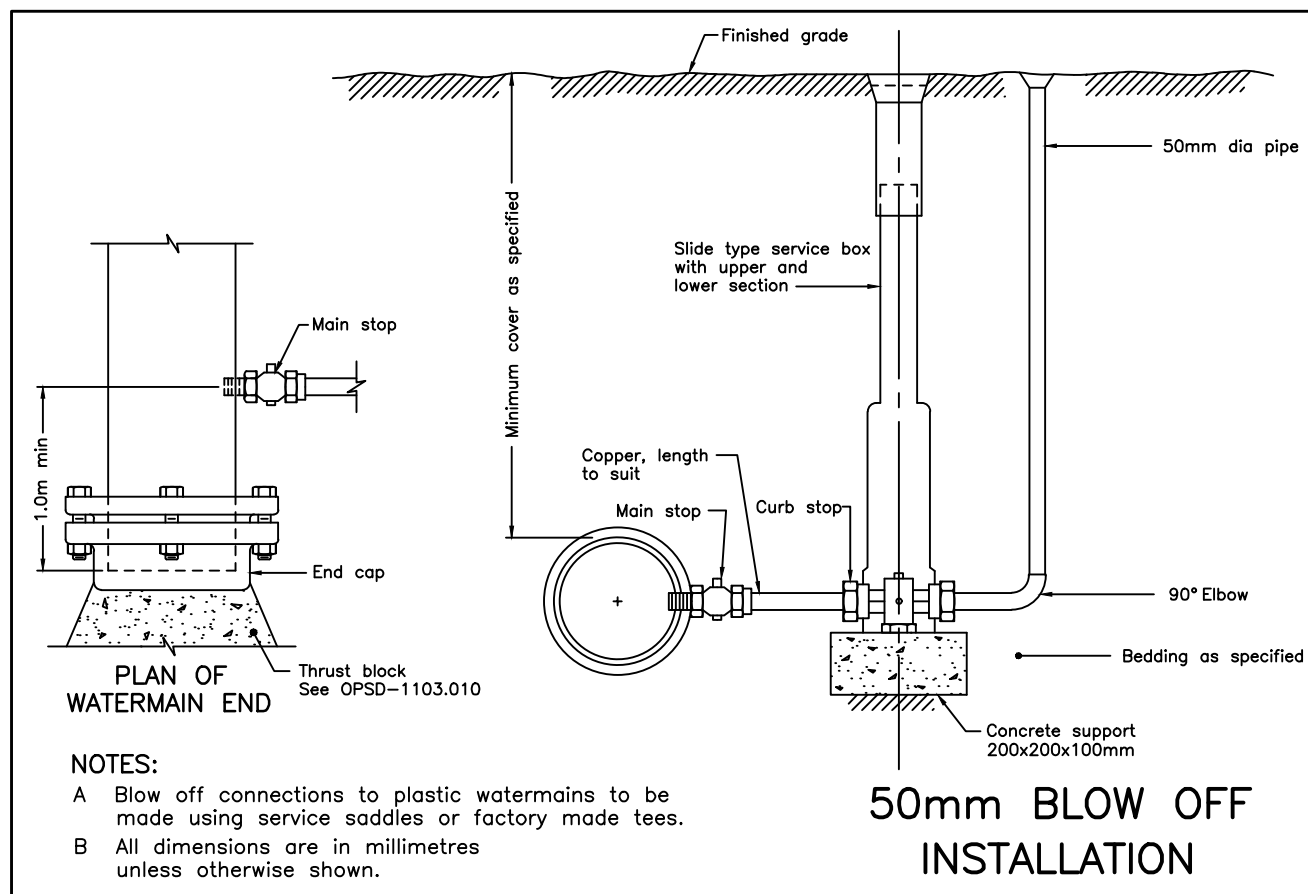
N.T.S.

UTILITIES	o/s FROM ϕ
HYDRANTS	0.6m
JOINT HYDRO, PHONE & CABLE	3.5m
GASLINE	1.0m
TRANSFORMERS	3.5m

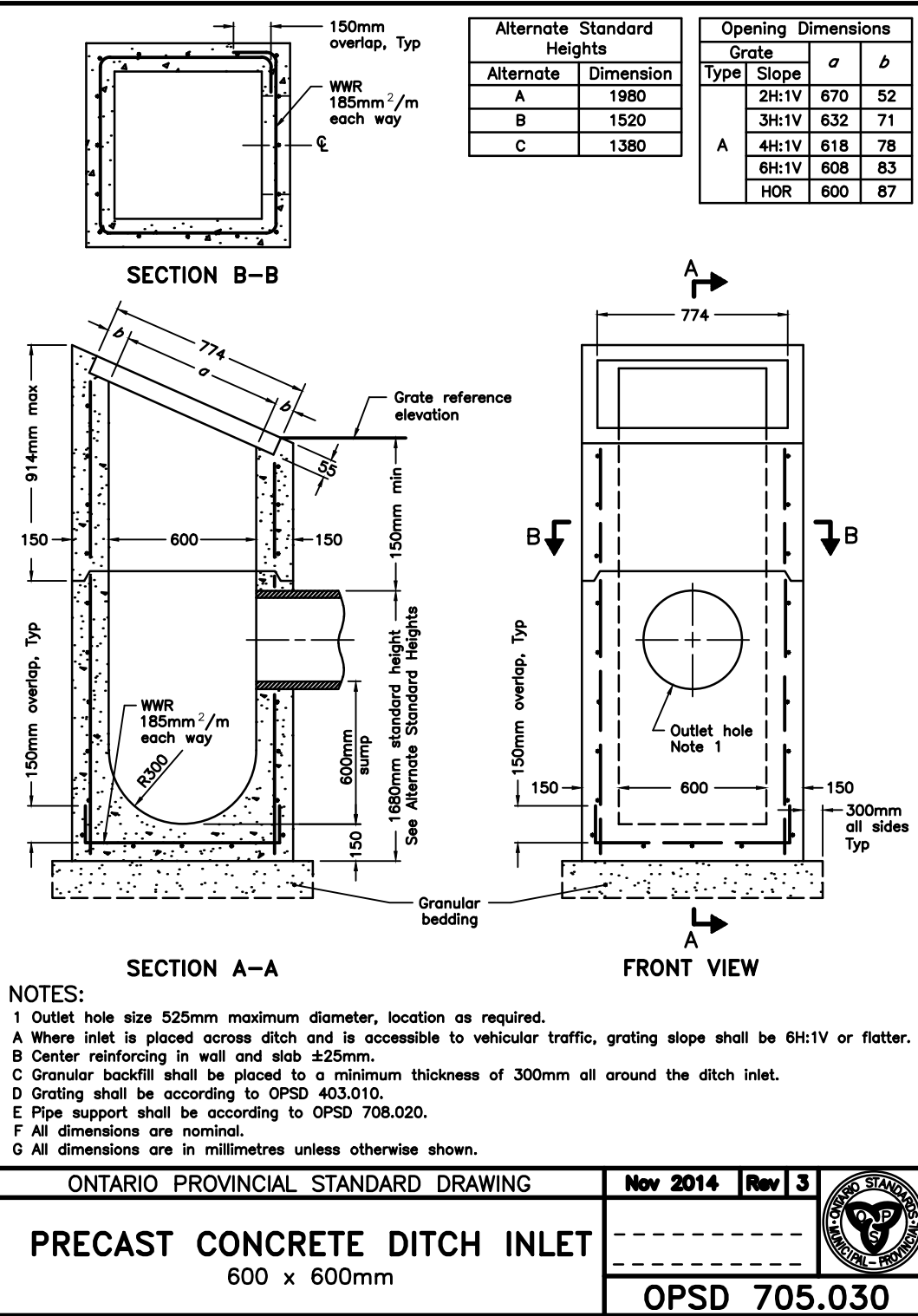


NOTE:
A Schematic only.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2000	Rev 0
TEMPORARY WATER PASSAGE SYSTEM PUMPING AND PIPING		
OPSD - 221.020		



- NOTES:
A Blow off connections to plastic watermain to be made using service saddles or factory made tees.
B All dimensions are in millimetres unless otherwise shown.



- NOTES:
A Outlet hole size 525mm maximum diameter, location as required.
B Where inlet is placed across ditch and is accessible to vehicular traffic, grating slope shall be 6H:1V or flatter.
C Center reinforcing in wall and slab 325mm.
D Granular backfill shall be placed to a minimum thickness of 300mm all around the ditch inlet.
E Grating shall be according to OPSD 403.010.
F Pipe support shall be according to OPSD 708.020.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
PRECAST CONCRETE DITCH INLET 600 x 600mm		
OPSD 705.030		

MUNICIPALITY OF MEAFORD ENGINEERING STANDARDS

GENERAL - CONSTRUCTION

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH MUNICIPALITY OF MEAFORD STANDARDS AND OPSS. WHERE CONFLICT OCCURS, MUNICIPAL STANDARDS GOVERN.
 2. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION.
 3. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
 4. DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
 5. 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.
 6. ALL EXISTING MAINTENANCE HOLES TO BE RAISED OR LOWERED TO PROPOSED GRADE. MAXIMUM ALLOWABLE HEIGHT OF ADJUSTMENT TO BE 300mm.
 7. ALL EXISTING HYDRANTS AND VALVES TO BE RAISED OR LOWERED TO PROPOSED GRADE.
 8. TRENCHES FOR UTILITIES TO BE MINIMUM 600mm WIDE BACKFILLED WITH APPROVED NATIVE MATERIAL AND COMPACTED ALL TO THE SATISFACTION OF THE LOCAL UTILITY.
 9. CONDUITS FOR ROAD CROSSINGS TO EXTEND 1.0m BEYOND CURB o/w PULL ROPES. INSTALL CONDUITS TO LOCAL STANDARDS.
 10. MAINTAIN A 150mm VERTICAL SEPARATION (MINIMUM) BETWEEN SEWERS AT CROSSINGS.
 11. CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND COORDINATE CONSTRUCTION ACCORDINGLY.
 12. TOPSOIL TO BE STRIPPED FROM SITE SHALL BE STOCKPILED AS DIRECTED BY ENGINEER.
- ### ROADWAYS
1. CONCRETE CURB AND GUTTER TO OPSD 600.040, 600.060 OR 600.100 AS INDICATED.
 2. CURB AND GUTTER TERMINATION TO OPSD 608.010.
 3. CURB AND GUTTER CONSTRUCTION SHALL CONFORM TO OPSS 353, NOV. 2006.
 4. CONTRACTOR TO SUPPLY AND INSTALL U-FLANGE POSTS.
 5. 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.
 6. GRANULAR 'A' AND 'B' MATERIALS TO BE COMPACTED TO 100% MDD, PER OPSS 501, NOV. 2005.
 7. BOULEVARD COMPACTION TO 95% OF MATERIAL'S MDD.
 8. ROADWAY SUBGRADE TO BE PROOF ROLLED IN PRESENCE OF GEOTECHNICAL ENGINEER.
 9. STANDARD ROAD BASE SHALL CONSIST OF 300mm GRANULAR 'B' AND 150mm GRANULAR 'A'.
 10. PAVEMENT ON NEW ROADS TO BE HOT MIX HL4 (50mm) BASE COURSE AND HL3 (40mm) PER OPSS 310, NOV. 2003.

SANITARY SEWERS AND SERVICES

1. MAINTENANCE HOLES TO OPSD 1001.01 (1200mmØ)
2. BENCHING TO OPSD 1004.01
3. FRAMES AND COVERS TO BE OPSD 401.01 TYPE 'A', CLOSED COVER.
4. SERVICE CONNECTIONS TO BE 125mm, TERMINATED AT THE PROPERTY LINE WITH A 125x125x100mm WYE C/W CAP, A 100mm Ø RISER C/W 100mmØ LONG SWEEP CAPPED AT SURFACE. SEE TOWN STANDARDS DRAWING.
5. SERVICE CONNECTIONS TO OPSD 1006.020 WITH SUITABLE NATIVE BEDDING OR GRANULAR 'A'. SEE TOWN STANDARD ON DWG. No. 308015-09.
6. BEDDING FOR SEWER SHALL BE PER OPSD 1005.02. BEDDING MATERIAL FOR SANITARY SEWER AND SERVICES SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'A'.
7. BACKFILL PER OPSD 803.04 USING APPROVED NATIVE BACKFILL.
8. BACKFILL AND BEDDING MATERIAL TO BE COMPACTED PER OPSS 410 AND 514.
9. TESTING TO OPSS 410, APRIL 2008.
10. 200mm LONG 13mmØ SS S14 BOLTS WITH NUTS AND WASHERS TO BE INSTALLED IN MANHOLE COVERS LIFT HOLES.

MUNICIPALITY OF MEAFORD ENGINEERING STANDARDS	
Watermain Pipe	100 mm Ø and larger
50 mm Ø	PVC DR18 (Class 150)
PVC Valves	Mueller, mechanical joint, resilient seat, right hand closing
Gate Valves	Mueller, mechanical joint, resilient seat, right hand closing
Valve Boxes	130 mm 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 Rockwell Series 371 or Cambridge Brass Series 403
Corporation Stops	Mueller H15008 or Cambridge Brass 302-A3H3
Curb Stops	Mueller H15209 or Cambridge Brass 202-H3H3
Service Material	Type K Soft Copper, Rehau Municipex service line or IPEX SDR9 service line
Curb Boxes	Mueller A-726 or Concord D-1
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

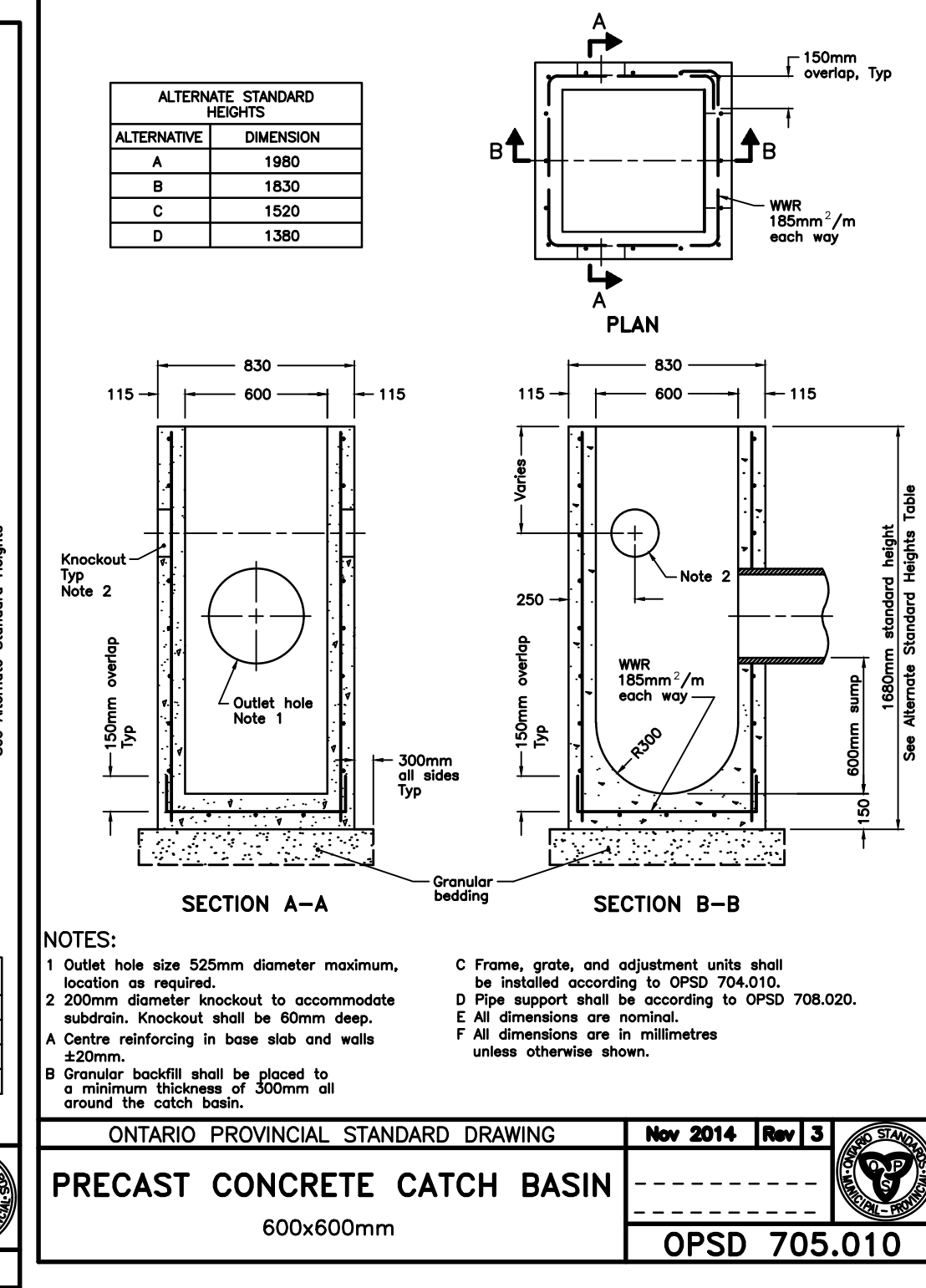
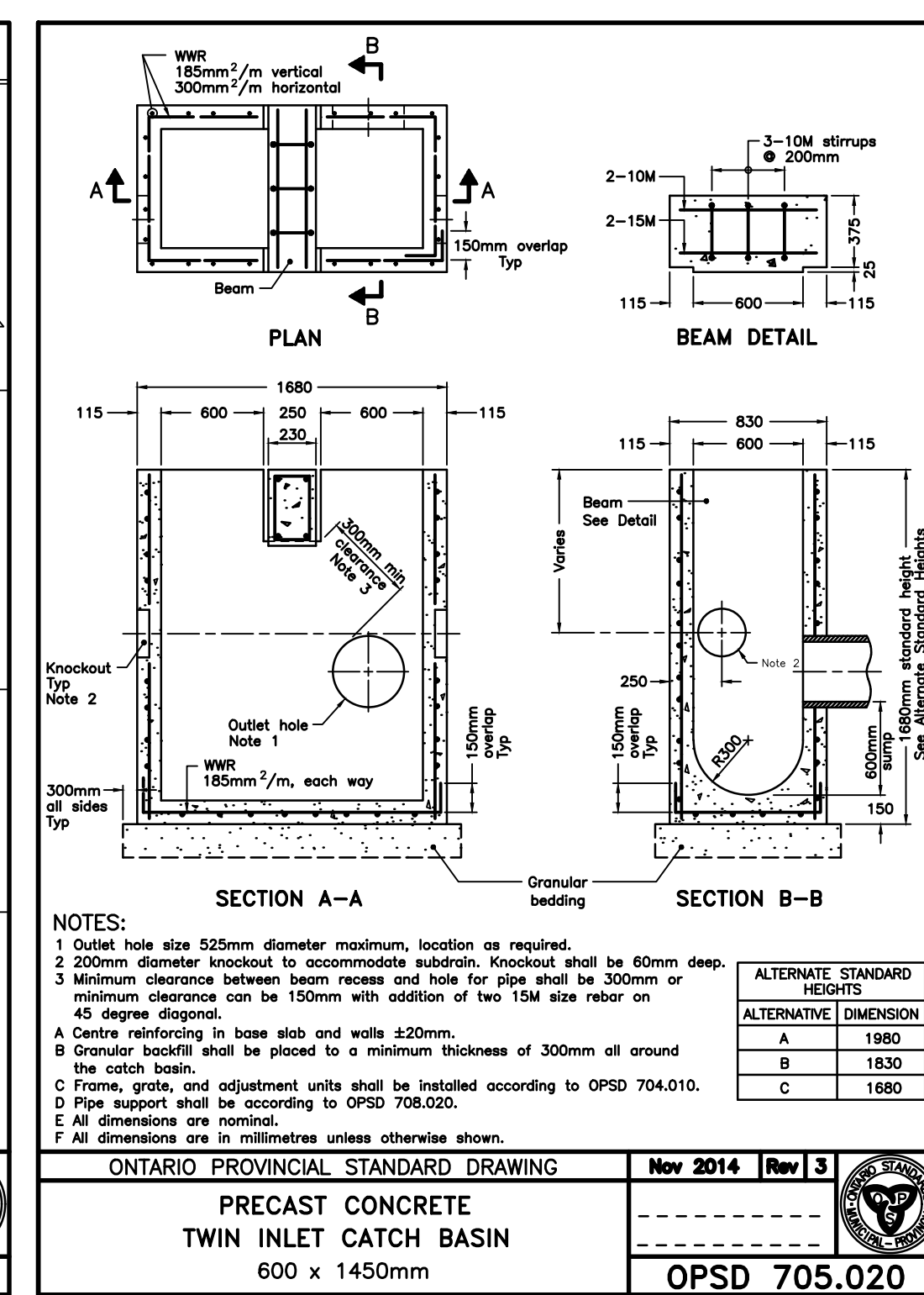
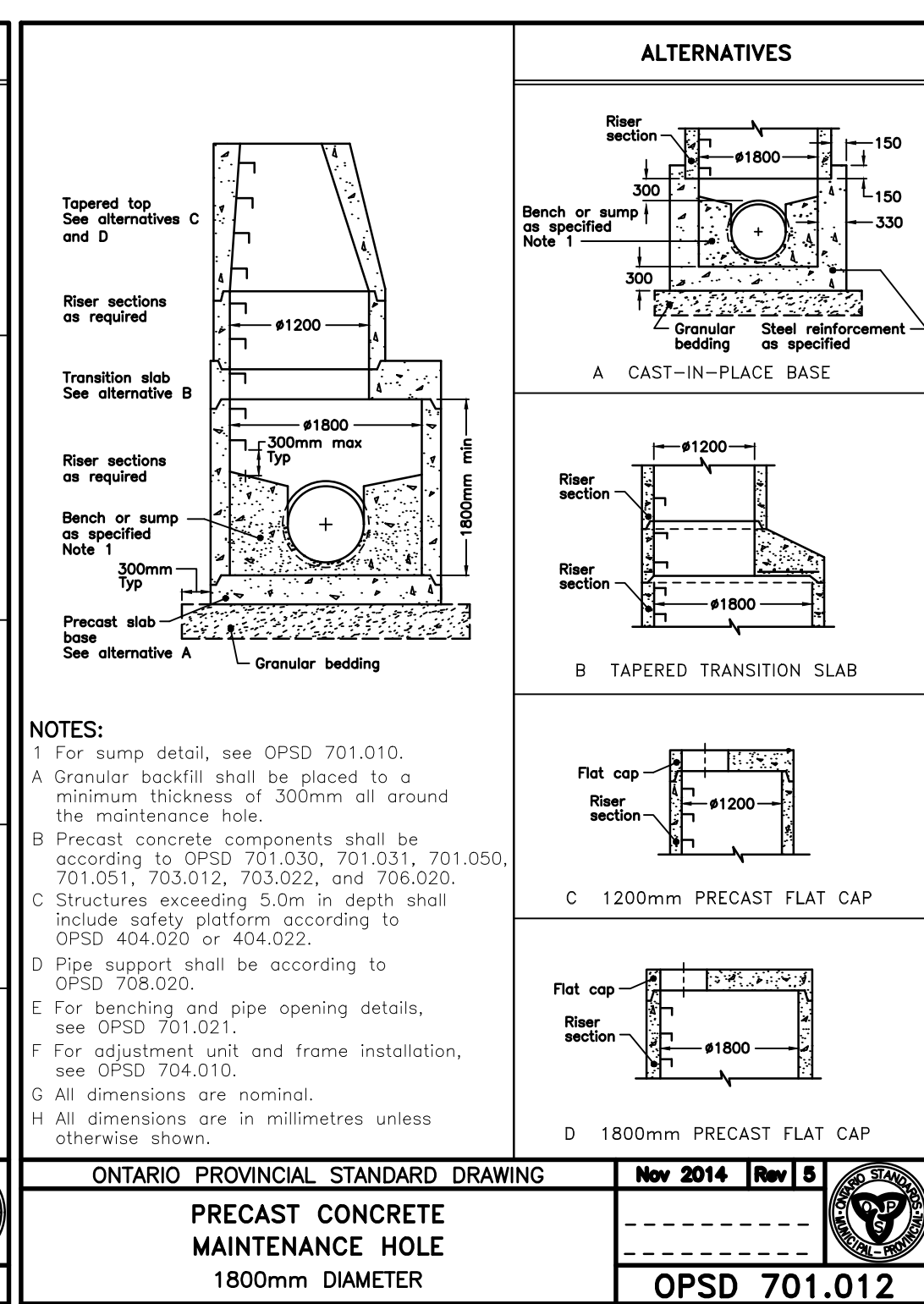
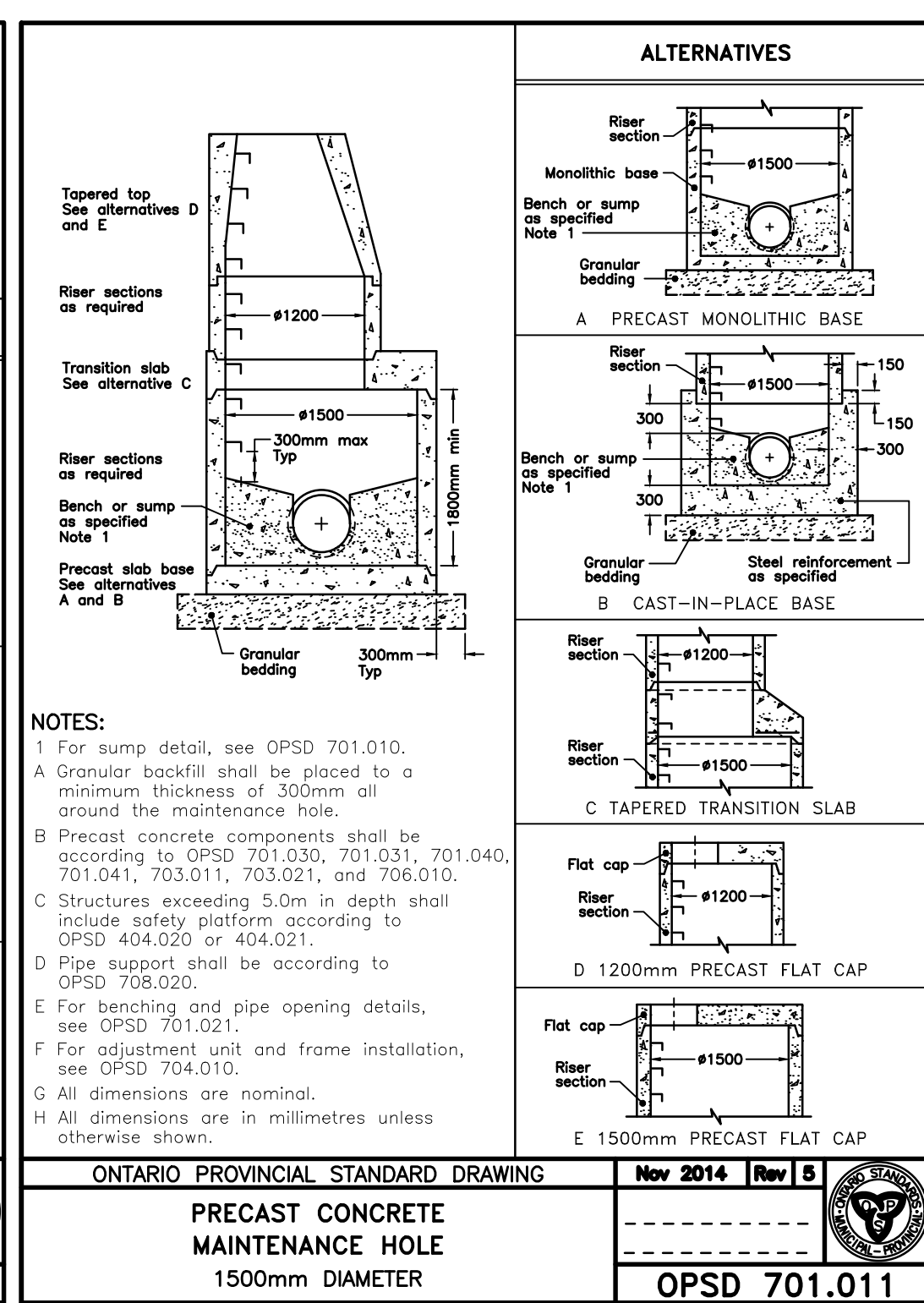
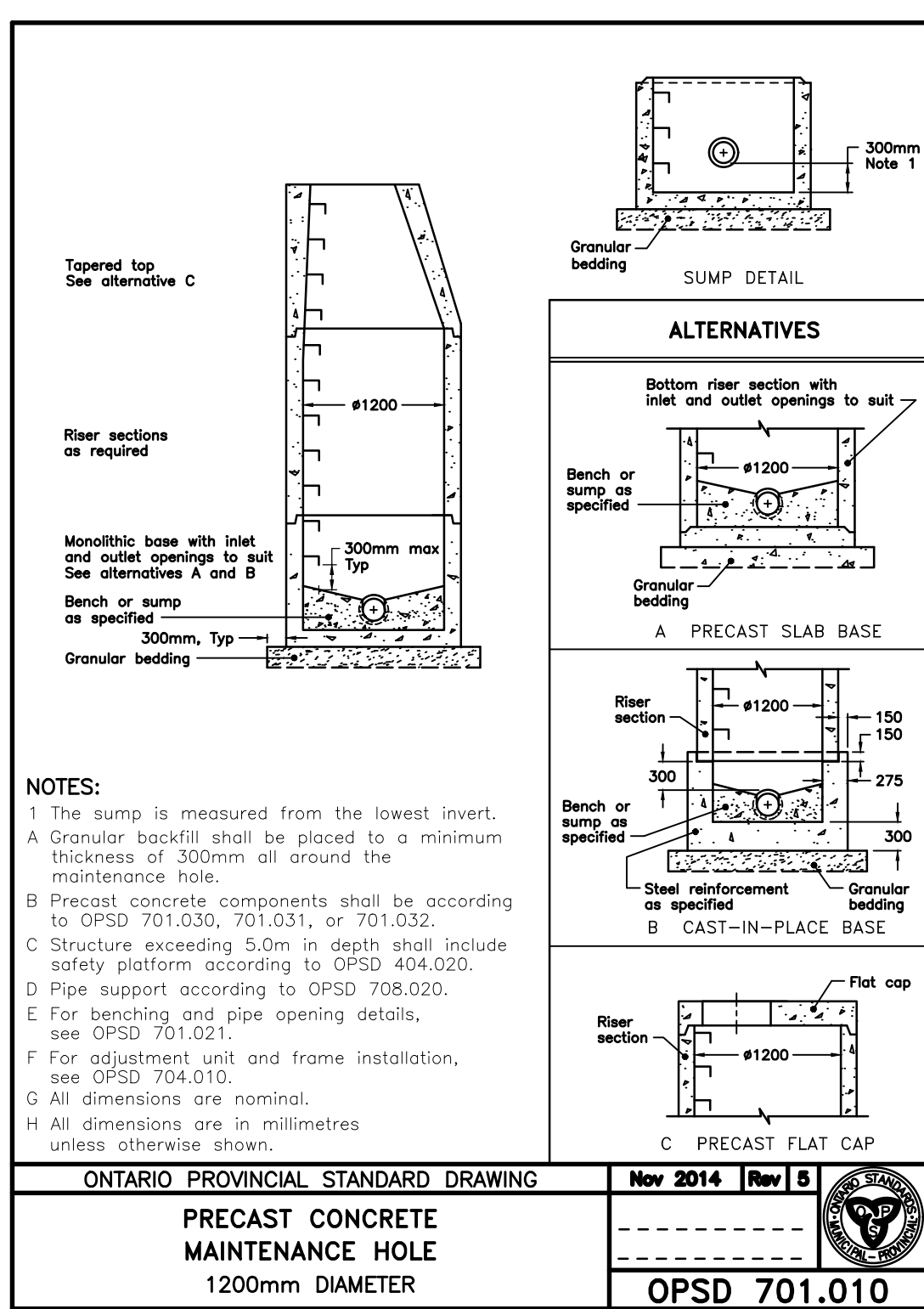
1. THRUST BLOCKS PER OPSD 1103.010 AND 1103.020.
 2. SERVICE CONNECTIONS PER OPSD 1104.01.
 3. HYDRANT, INSTALLATION PER OPSD 1105.01 AND TO TOWN STANDARDS.
 4. USE APPROVED NATIVE MATERIAL OR GRANULAR 'A' BEDDING PER OPSD - 1102.02. BACKFILL TO BE APPROVED NATIVE MATERIAL PER OPSD 803.04.
 5. WATERMAIN, SERVICES, AND HYDRANTS TO BE INSTALLED PER OPSS 701, NOV. 2006.
 6. ALL PVC WATERMAIN TO HAVE TRACER WIRE BETWEEN HYDRANTS AND OTHER CONDUCTING APPURTENANCES.
 7. MINIMUM COVER TO BE 1.8m.
- ### STORM SEWERS AND SERVICES
1. MAINTENANCE HOLES TO OPSD 1001.01 (1200mmØ)
 2. BENCHING TO OPSD 1004.01
 3. FRAMES AND COVERS TO BE OPSD 401.01 TYPE 'A', CLOSED COVER.
 4. 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.
 5. SERVICE CONNECTIONS TO OPSD 1006.020 WITH SUITABLE NATIVE BEDDING OR GRANULAR 'A'.
 6. BEDDING FOR SEWER SHALL BE PER OPSD 1005.02. BEDDING MATERIAL FOR STM SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'A'.
 7. BACKFILL PER OPSD 803.04 USING APPROVED NATIVE BACKFILL.
 8. BACKFILL AND BEDDING MATERIAL TO BE COMPACTED PER OPSS 410 AND 514.
- ### MATERIALS
1. SANITARY SEWER - SDR35 PVC.
 2. SANITARY SERVICES - SDR28 PVC, 125Ø USING TEE CONNECTIONS TO MAIN.
 3. STORM SEWER - PE (PS 320).
 4. ALL DRAINAGE PIT MATERIAL TO BE PERFORATED P.E. (PS 320) STORM SEWER.
 5. WATERMAIN - DR18 PVC INCLUDING 12 AWG TWU TRACER WIRE. ALL MECHANICAL JOINTS TO BE EQUIPPED WITH GRIP RINGS.
 6. WATERMAIN SERVICES - 20mmØ, REHAU MUNICIPEX, 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.
 7. 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.
 8. 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.
 9. 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.
 10. "STOP AND DRAIN" VALVES ARE TO BE USED AT BLOW-OFFS. MUELLER H-15219 OR APPROVED EQUIVALENT TO BE USED.
 11. 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.
 12. UTILITY ROAD CROSSING CONDUITS - 100mmØ TYPE II PVC.

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Notes

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2. SEE SHEET DET11 FOR TYPICAL ROAD CROSS SECTIONS AND PAVEMENT DESIGN.
3. ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.
4. COVER OVER WATERMAIN 1.8m MINIMUM AT ALL POINTS INCLUDING WATER SERVICES. WATER SERVICES TO GO UNDER STORM SEWER WHERE 1.8m COVER CANNOT BE ACHIEVED BY GOING OVER TOP.
5. STORM SEWERS UP TO AND INCLUDING 900mmØ SHALL BE BOSS 2000. ALL STORM SEWERS 1050mmØ AND LARGER TO BE BOSS 3000.
6. STORM SEWERS TO BE PERFORATED HOPE 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.
7. SANITARY SEWER TO BE PVC SDR 35
8. ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP OF 300mm.
9. MAINTAIN 2.50m CLEARANCE BETWEEN STORM/SANITARY SEWER AND WATERMAIN.
10. ALL WATERMAINS TO BE PVC DR 18 WITH 19mmØ REHAU MUNICIPEX SERVICE TUBING FOR WATER SERVICES.
11. WATER SERVICES TO BE INSTALLED UNDER STORM SEWERS.
12. ALL HYDRANT SETS REQUIRE TEST POINT AND HYDRANT MARKER.
13. ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO ABOVE SECTION BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
14. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL STAMPED ISSUED FOR CONSTRUCTION.
15. ALL CONSTRUCTION TO BE COMPLETED TO MUNICIPALITY OF MEAFORD ENGINEERING STANDARDS.

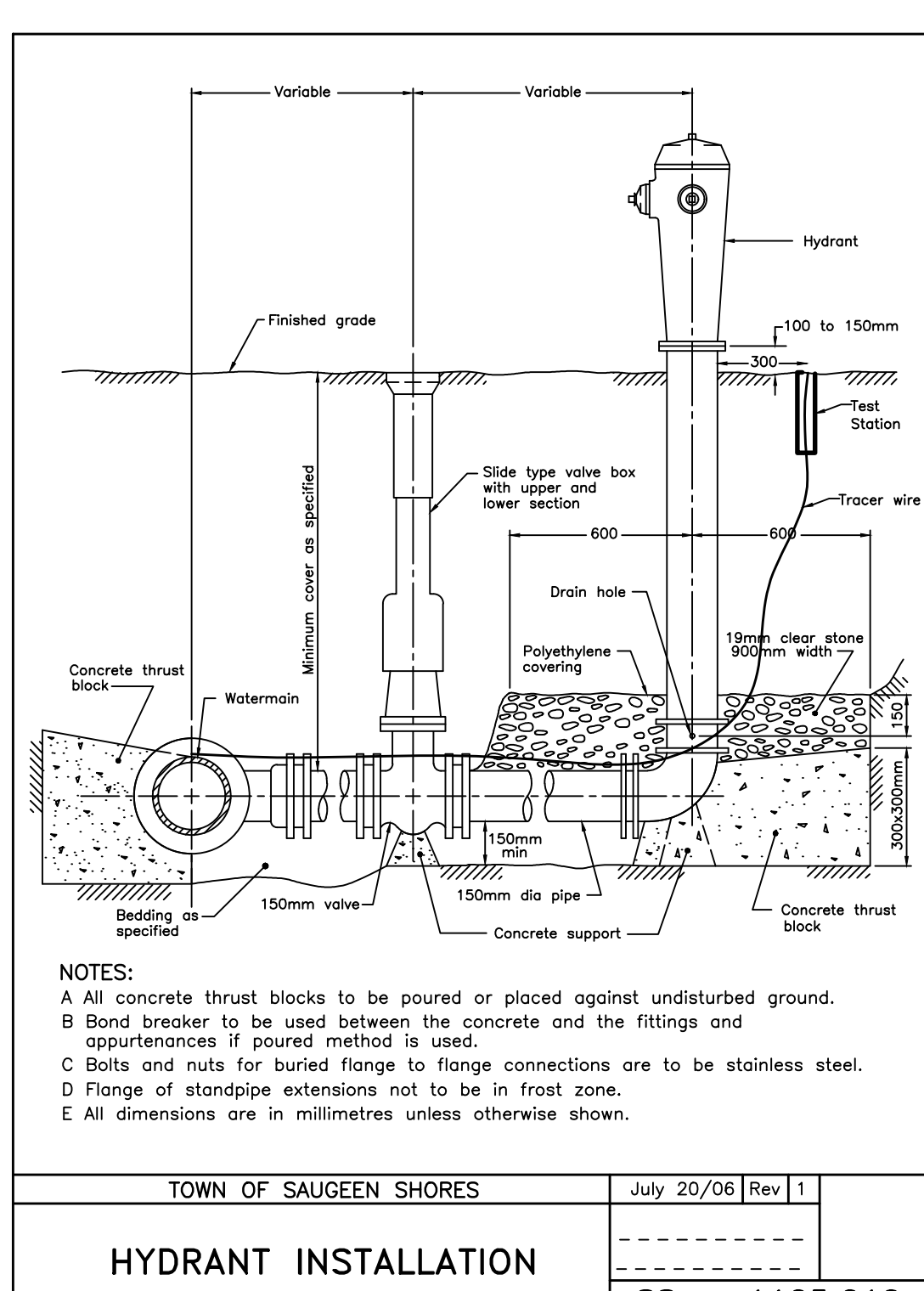
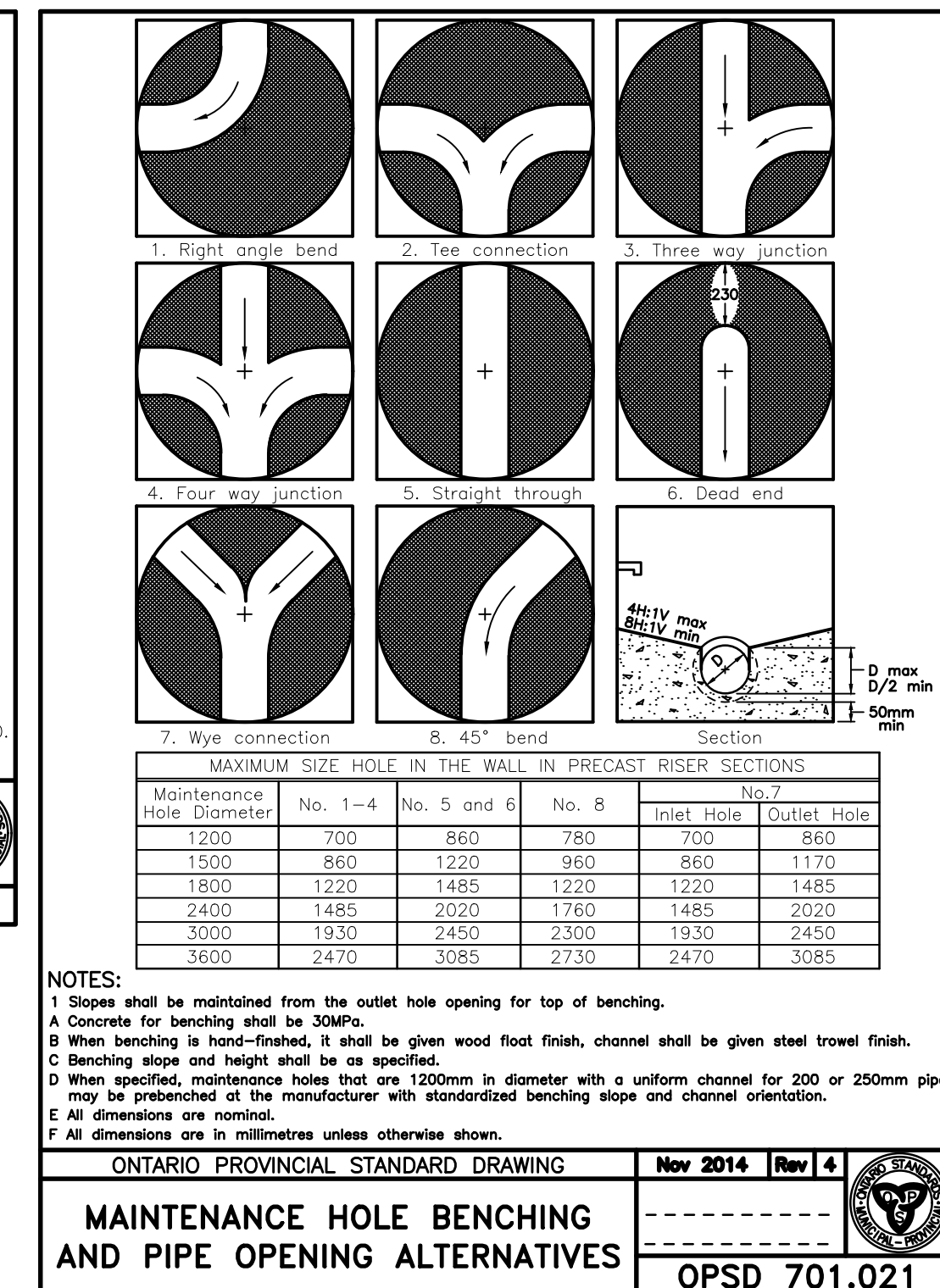
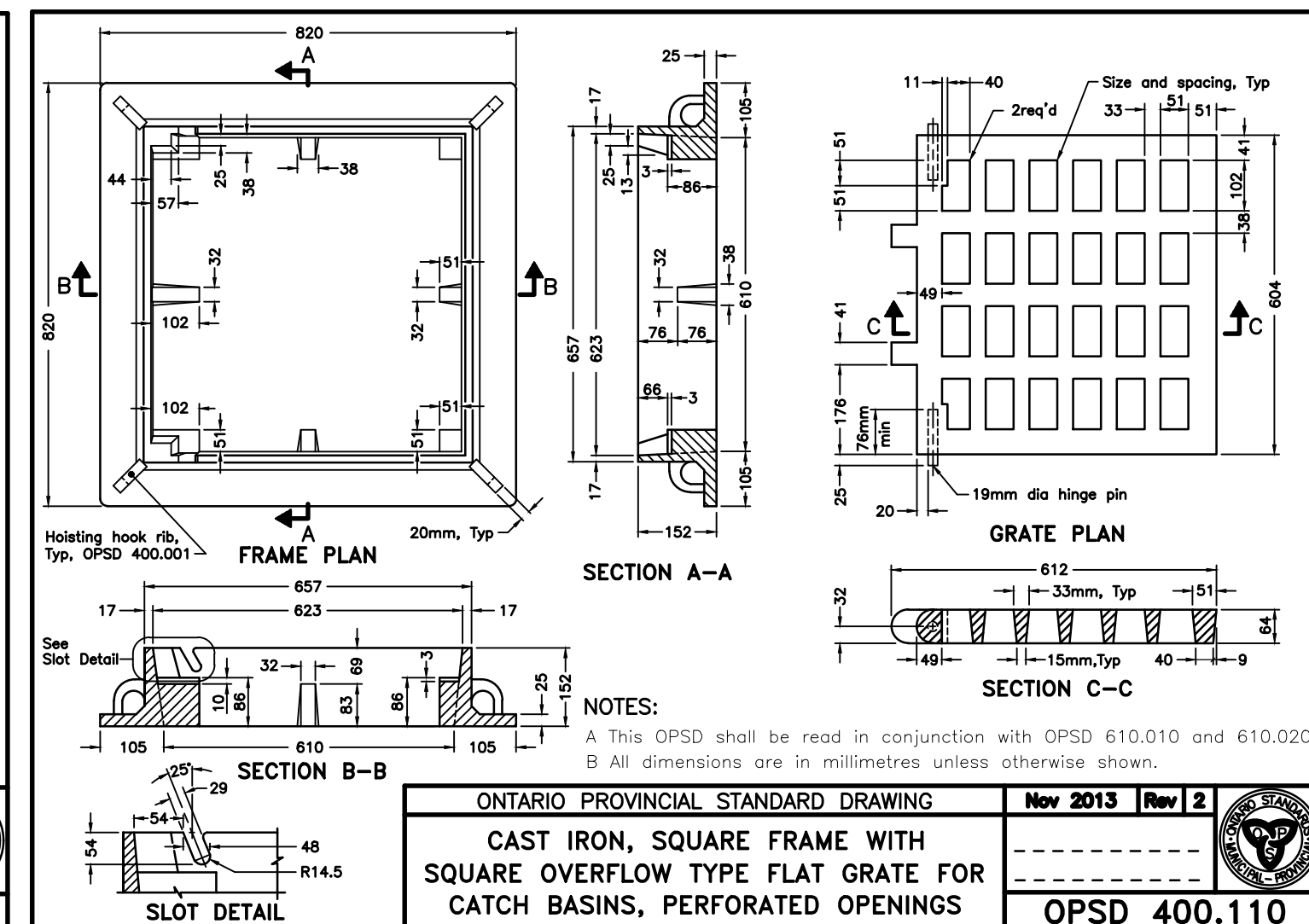
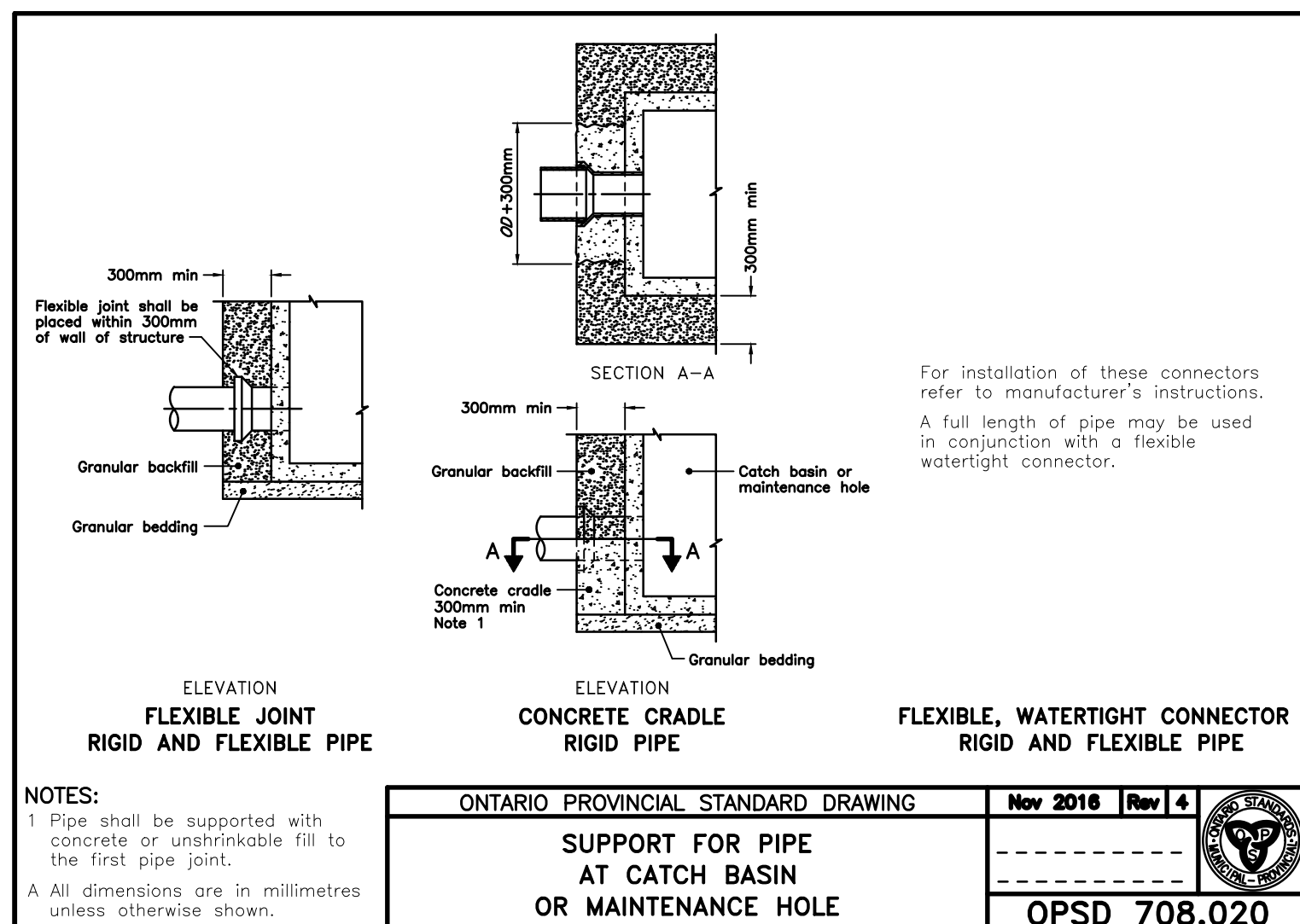
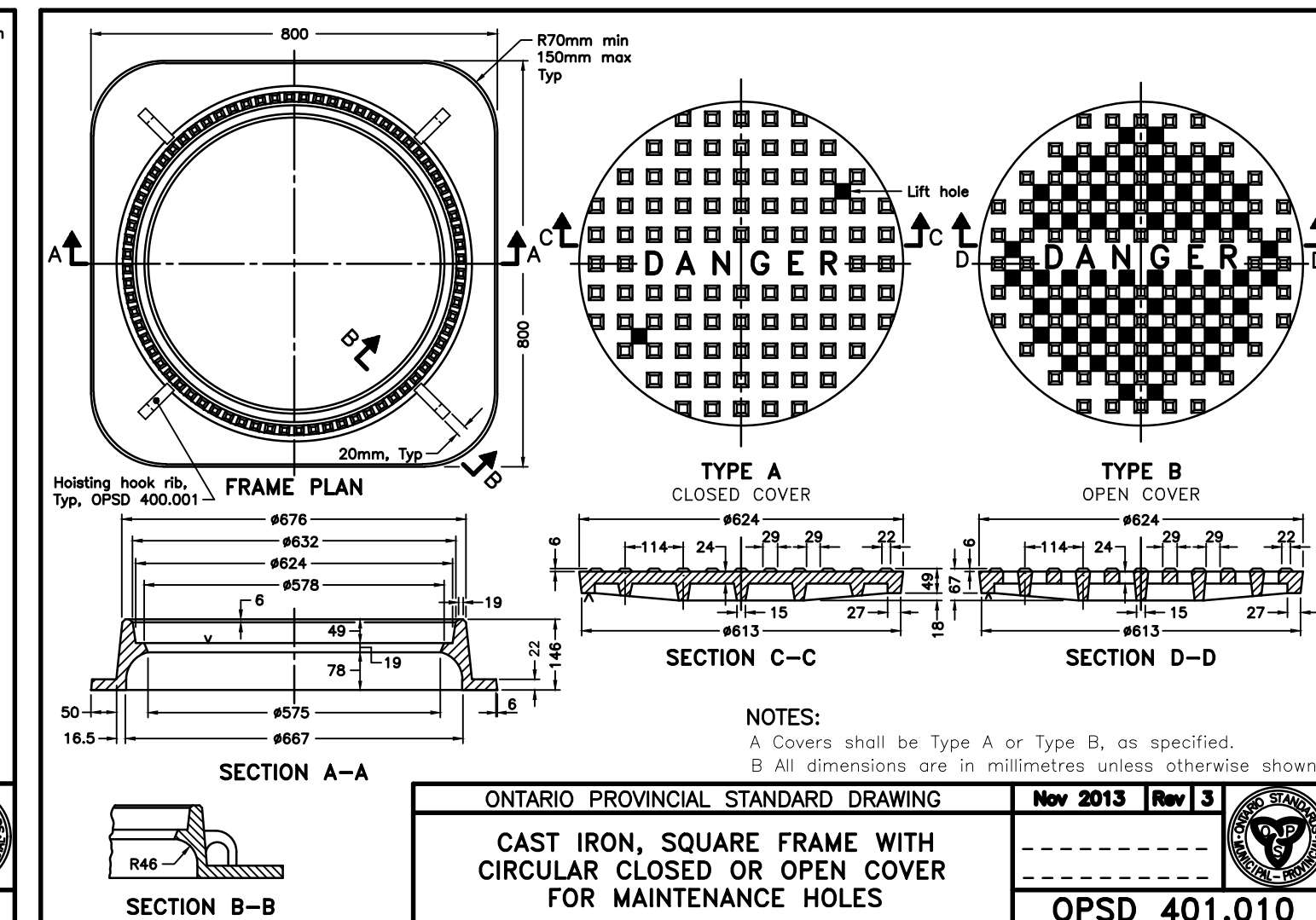
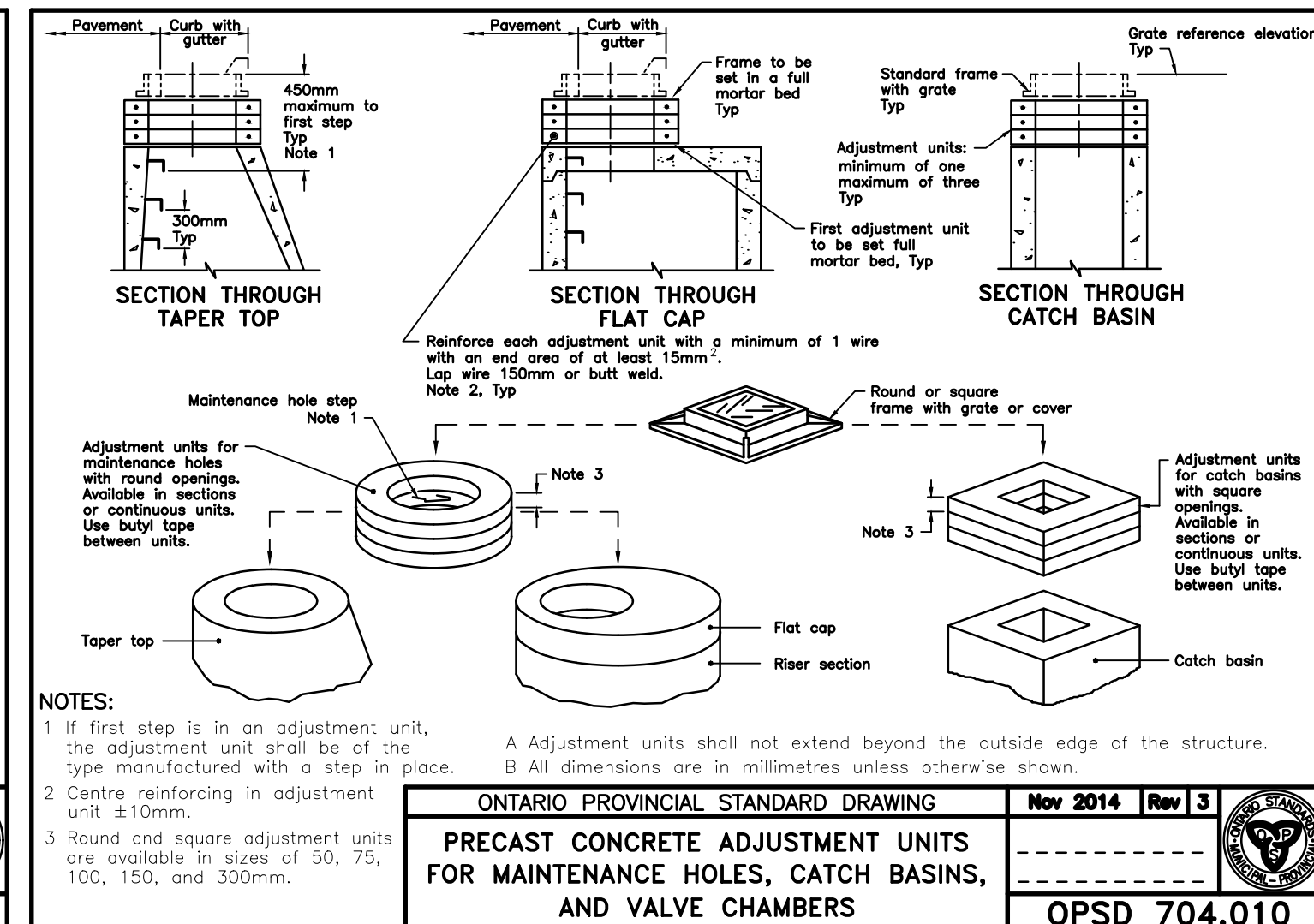
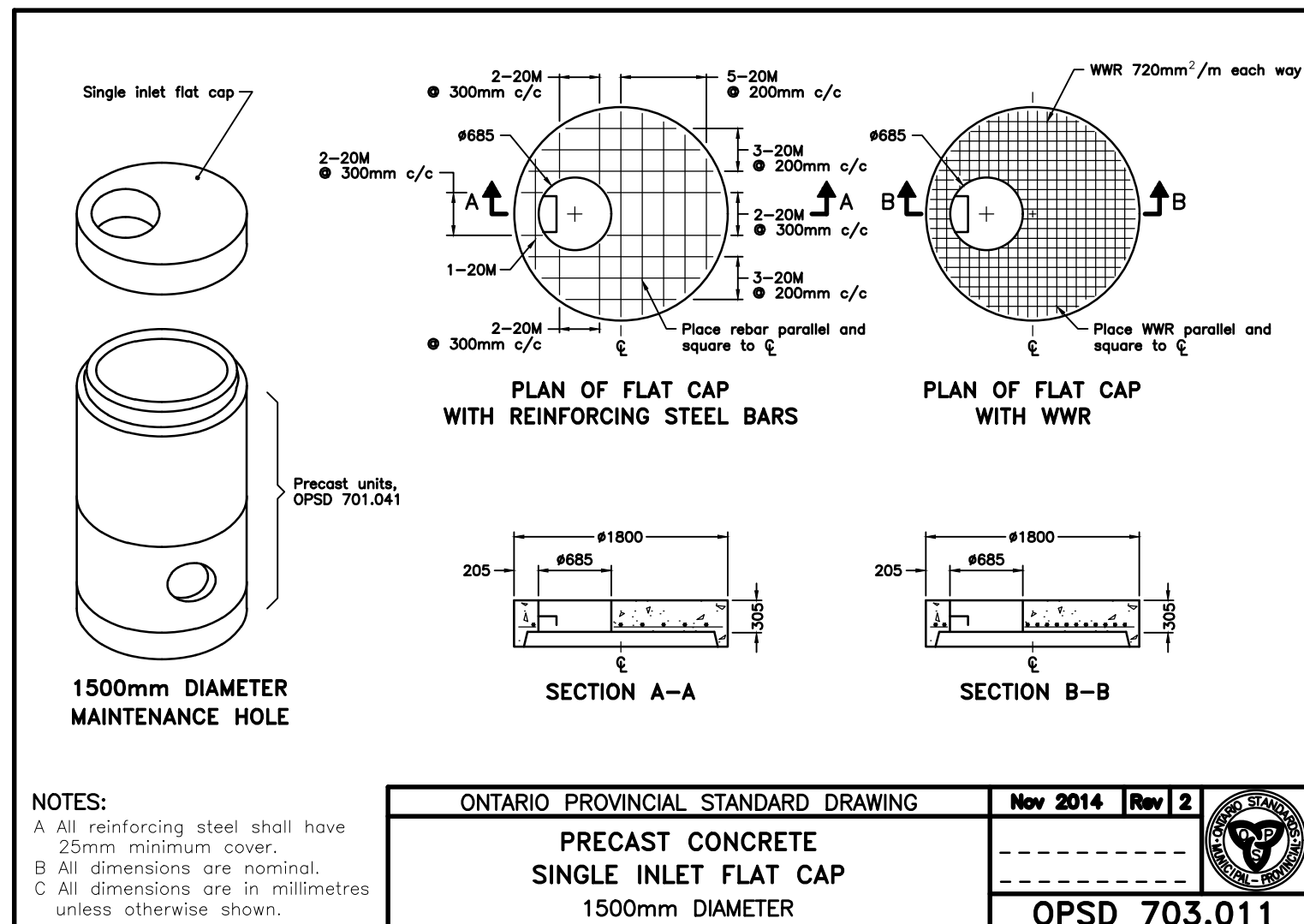
1	JUL 22/20	FIRST SUBMISSION	TLB	SJC
No.	DATE	DESCRIPTION	BY	APPD
REVISION / ISSUE				
Seal not valid unless signed or				
517 - 10th STREET, Hanover, Ontario N4N 1R4 Telephone: (519) 506-5959 www.cobideeng.com				
Title:				
HILTON HEAD HEIGHTS Municipality of Meaford ENGINEERING STANDARDS TYPICAL CROSS-SECTIONS & MISCELLANEOUS DETAILS				
Client:				
1665426 ONTARIO INC.				
Design:		TLB	Scale: AS SHOWN	
Drawn:		JAF	Approved:	
Checked:		SJC		
Date:		JAN 2019	Design Engineer	
DRAWING No.			00008-C8	



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