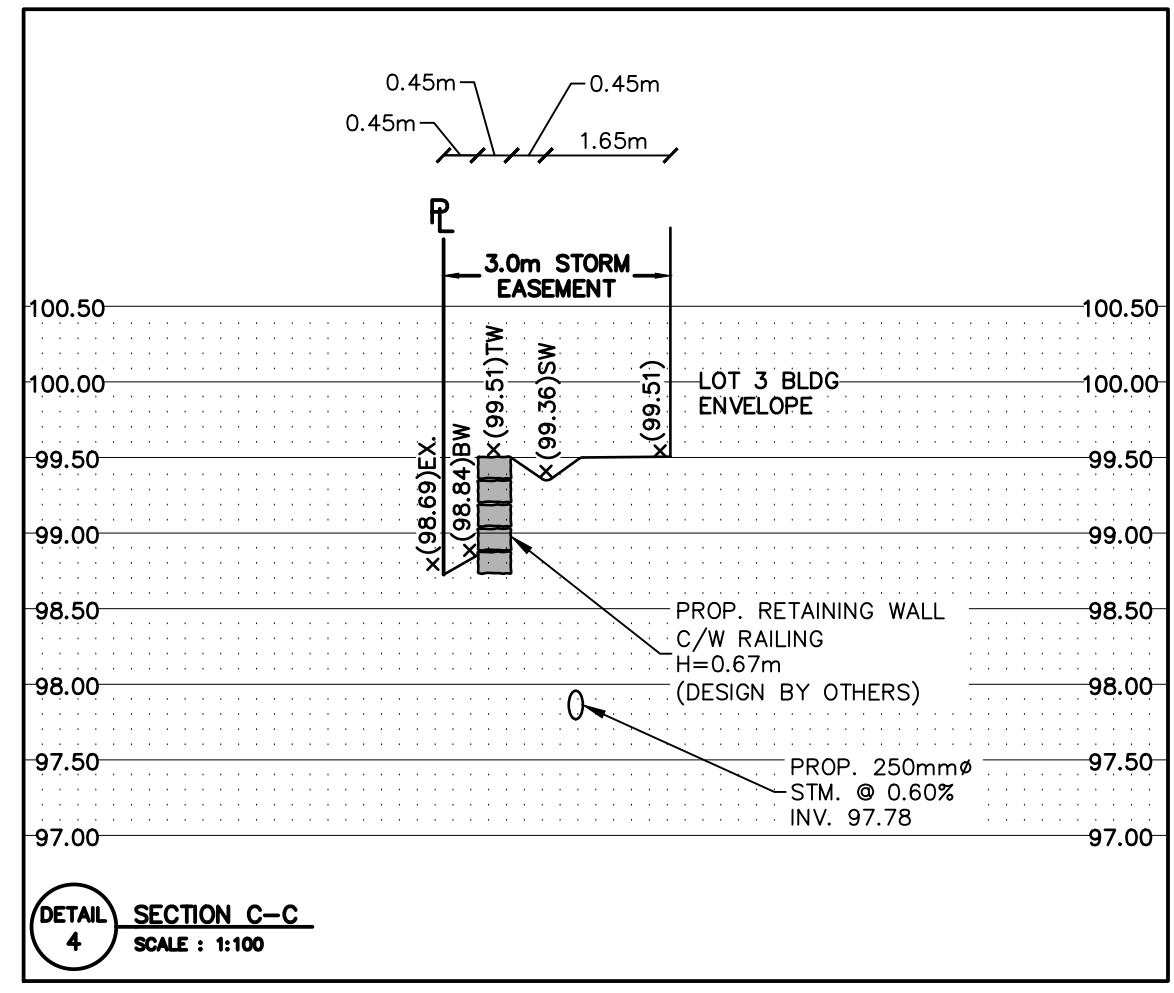
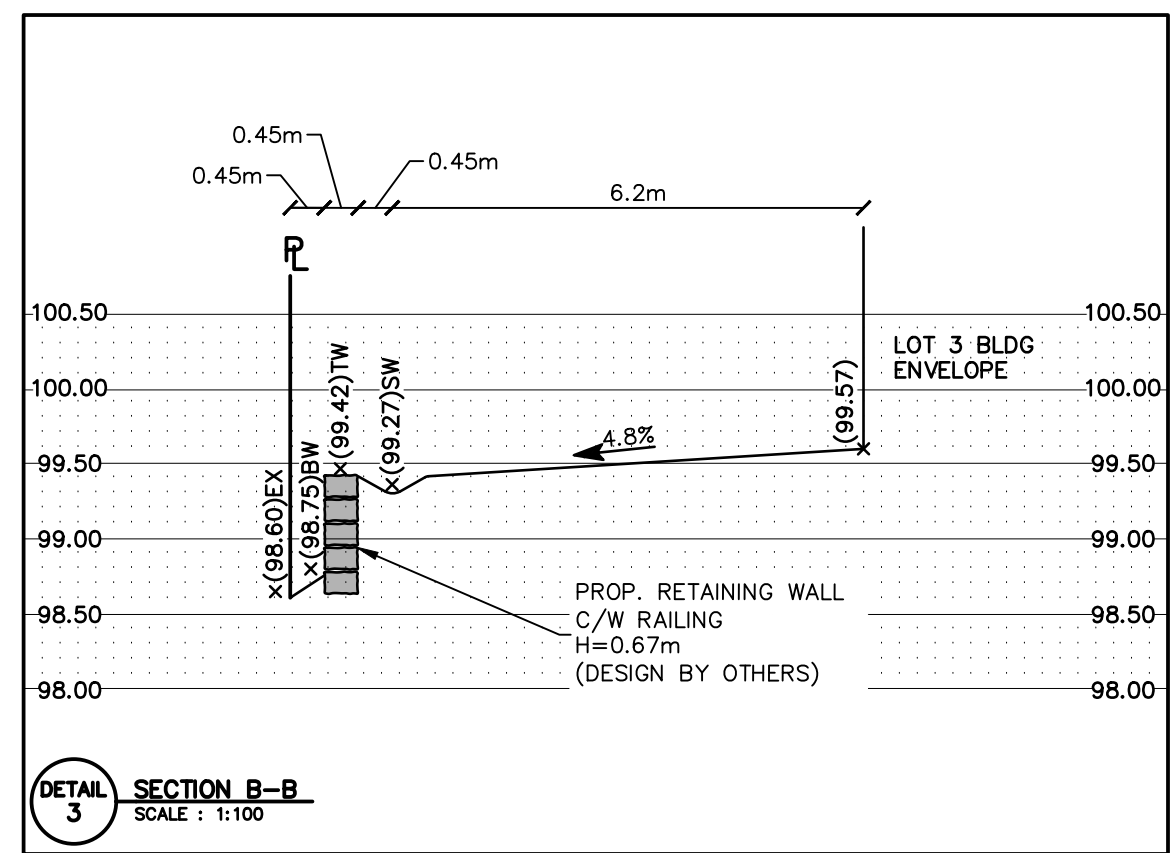
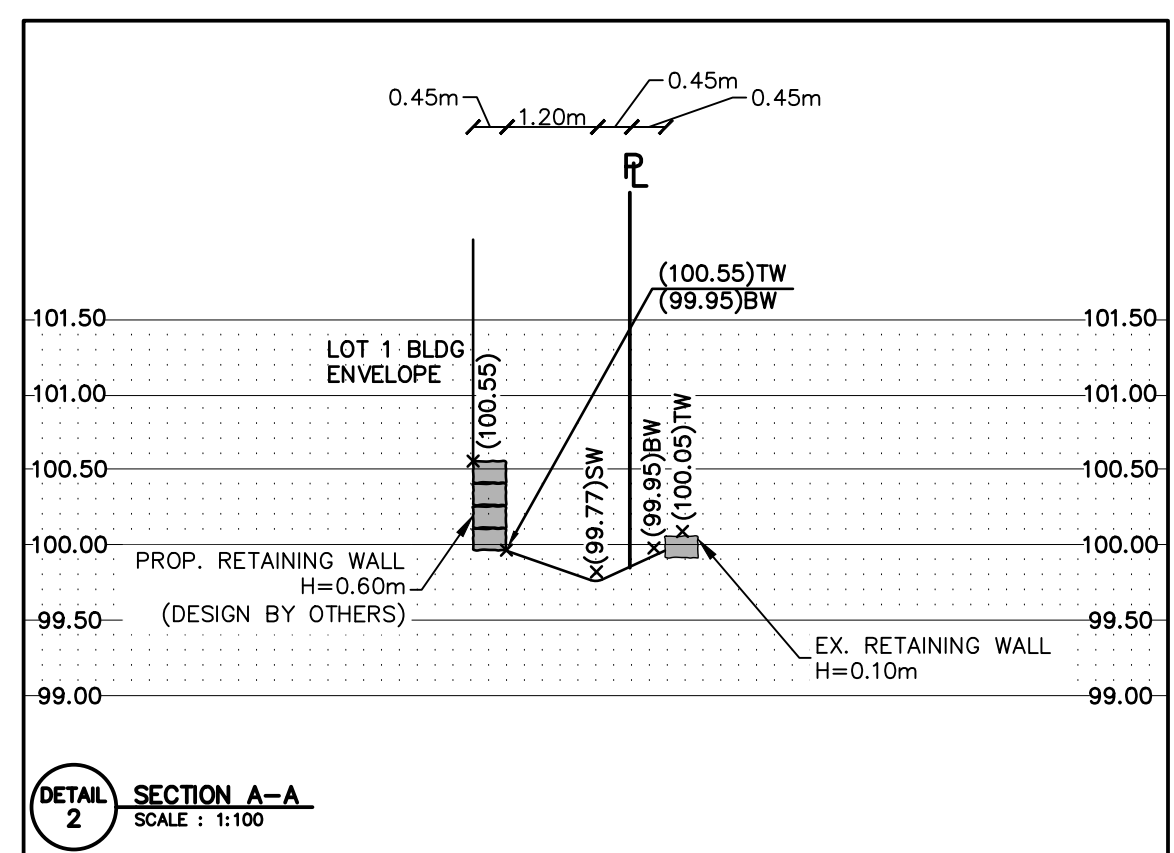
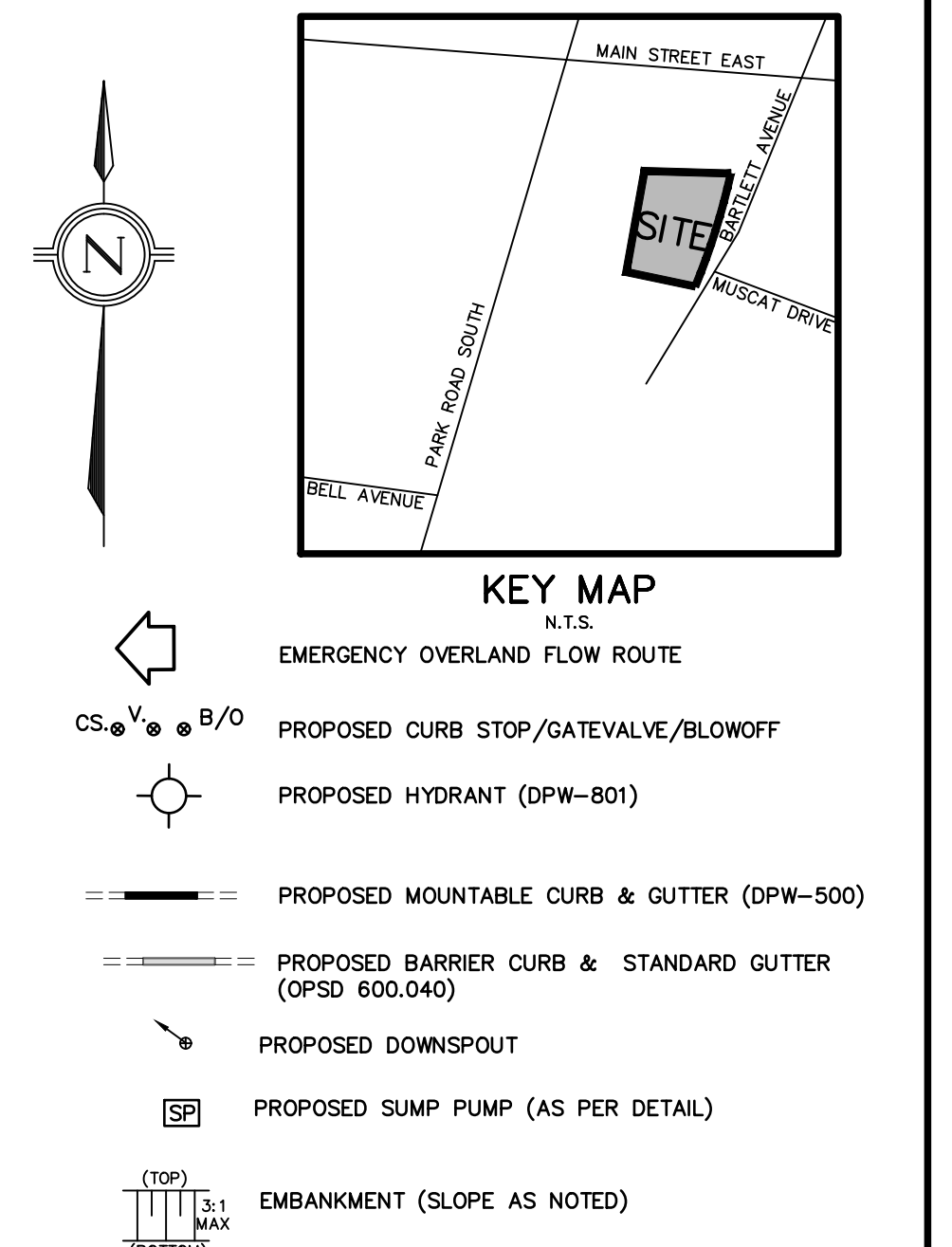
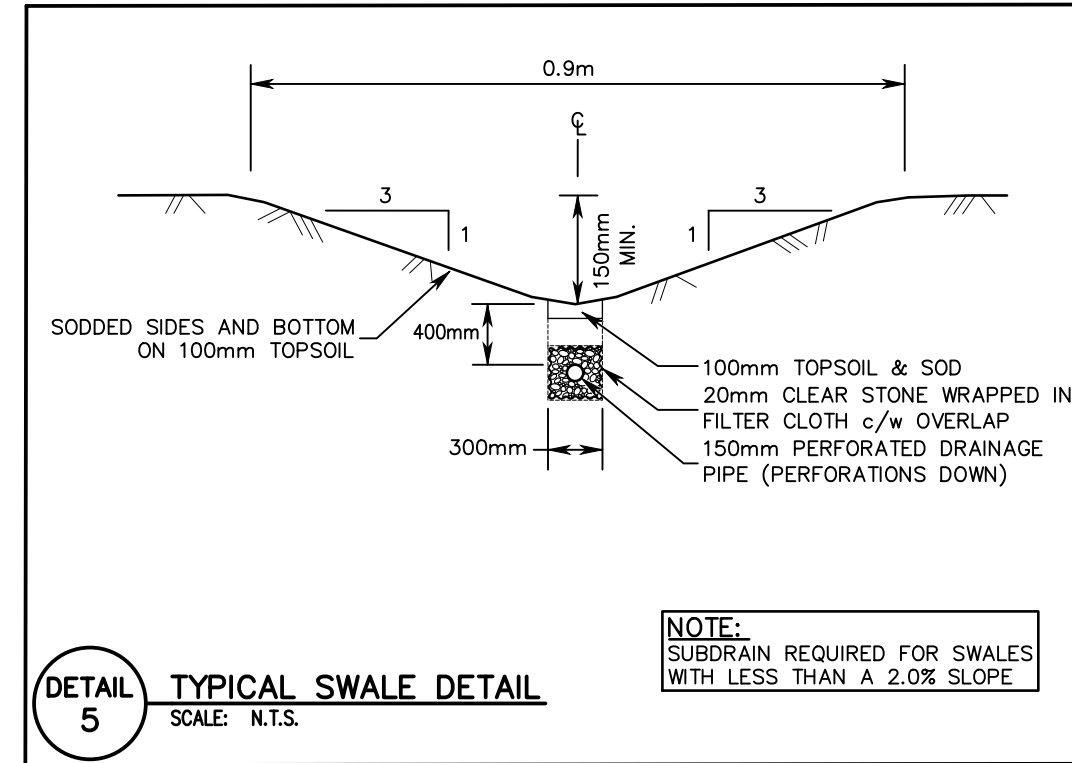
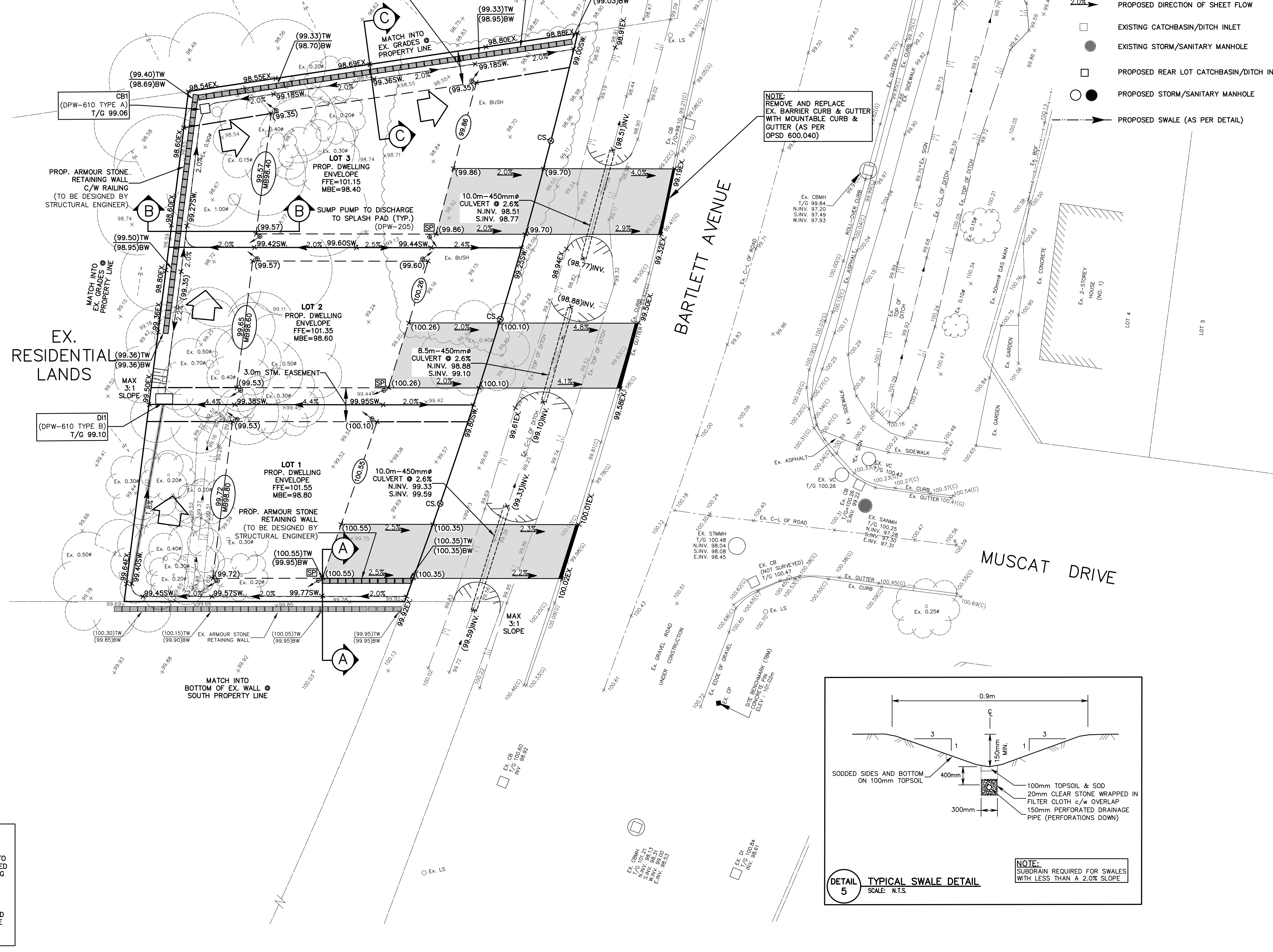


- NOTES:**
1. DETAILS ARE PROVIDED FOR INFORMATION ONLY. RETAINING WALLS SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
 2. RETAINING WALL WITH A HEIGHT GREATER THAN 0.60m MUST INCLUDE A HANDRAIL OR FENCE ALONG THE TOP OF THE WALL AS PER THE ONTARIO BUILDING CODE. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
 3. RETAINING WALL TO BE INSET 0.45m FROM ADJACENT PROPERTY LIMIT UNLESS OTHERWISE NOTED.
 4. RETAINING WALLS EXCEEDING 1.0m IN HEIGHT ARE TO BE DESIGNED BY A STRUCTURAL ENGINEER. CONTRACTOR TO PROVIDE SEALED AND SIGNED SHOP DRAWINGS.
 5. ALL RETAINING WALL STRUCTURES ARE TO BE CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER IN THE FIELD DURING CONSTRUCTION.



NOTE:
 ALL PROPOSED CULVERTS ARE TO BE BOSS 2000 HDPE, OR APPROVED EQUIVALENT



BENCH MARK NOTE:
 ELEVATIONS ARE GEODETIC, DERIVED BY GPS OBSERVATIONS, REFERRED TO GEODETIC SURVEY OF CANADA BENCHMARK 0011963U3506 9AKA 63U3506H HAVING AN ELEVATION OF 97.088m (CGVD-1928:1978)
 LOCATION: GRIMSBY PARK SCHOOL NO.215, ON NORTH SIDE OF HIGHWAY NO. 8, 2.4KM EAST OF POST OFFICE, TABLET IN SOUTH OF FRONT STONE FOUNDATION WALL, IN FIRST COURSE OF STONE ABOVE SIDEWALK, 1.57M WEST OF SOUTHEAST CORNER, 74CM FROM A BASEMENT WINDOW, 1.63M BELOW RED BRICK SIDING, 42CM ABOVE SIDEWALK.
 ALL FUTURE GRADE WORK ON SITE TO BE BASED ON SITE BENCHMARK. ANY ELEVATION DISCREPANCIES TO BE REPORTED TO RASCH & HYDE LTD.

NO.	DATE	BY	REVISIONS

NOTES TO CONTRACTOR:

1. CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
2. FOR CLARIFICATION BEFORE COMMENCING THE WORK.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND ANGLES AND REPORT ALL FINDINGS TO THE ENGINEER. ONCE CONSTRUCTION HAS COMMENCED, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS.
4. THE POSITIONS OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVER-GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWING, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
5. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

DESIGN	YM	CHK'D	SL	DATE

DRAWN	YM	CHK'D	SL	DATE
				Oct. 11, 22

SCALE: 1:200

APPROVALS	

BRANDON WATMAN, C.E.T. DATE: _____
 DIRECTOR OF PUBLIC WORKS

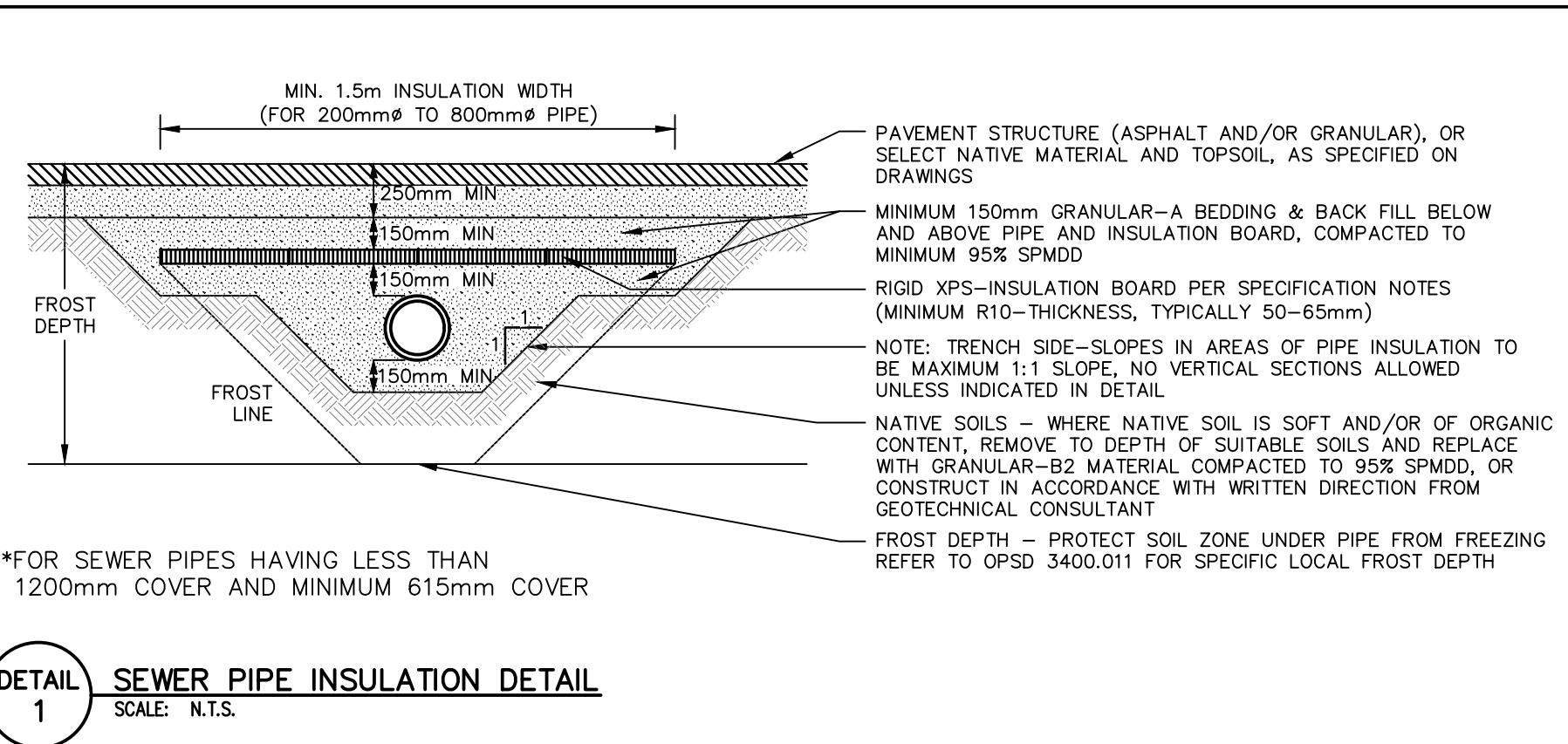
S. LLEWELLYN & ASSOCIATES LIMITED
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 3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

CLIENT
LARRY THORNLEY ENTERPRISES LTD.
 3 WINDWARD DRIVE, GRIMSBY, ON

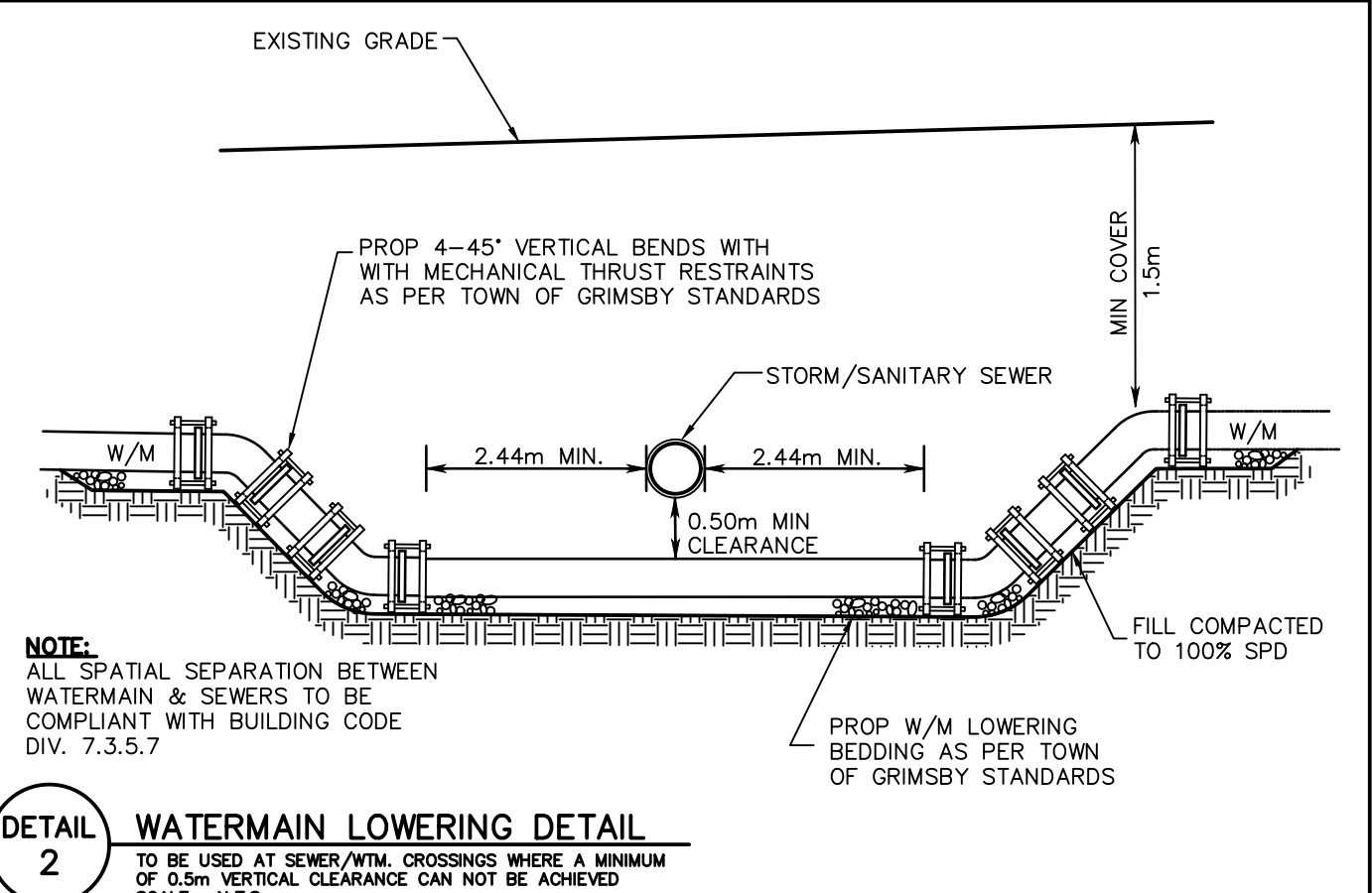
PROJECT NAME
BARTLETT AVENUE IN THE TOWN OF GRIMSBY GRIMSBY, ON

TITLE
PRELIMINARY SITE GRADING AND EROSION CONTROL PLAN

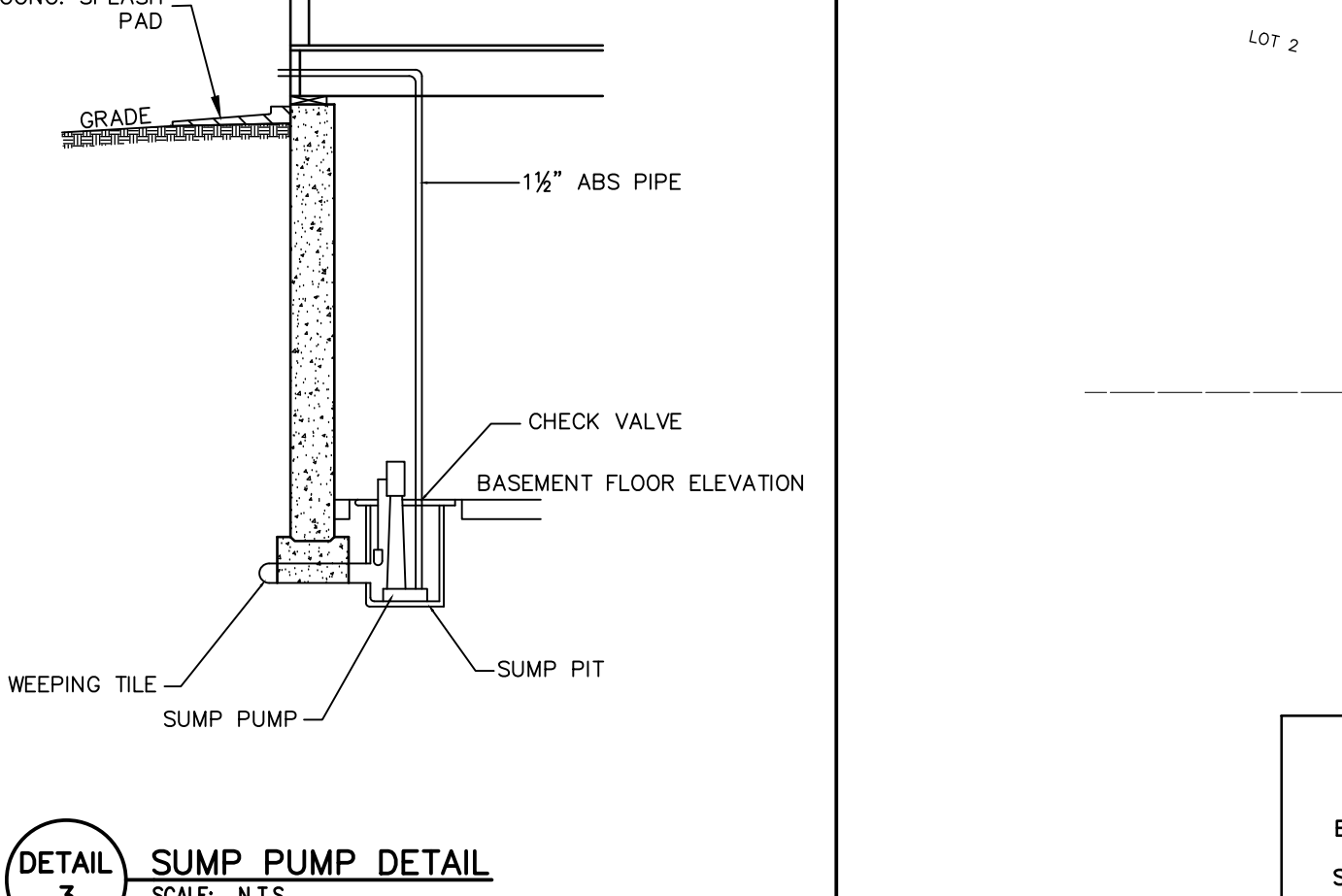
PROJECT No.	22054	DRAWING No.	C101
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DETAIL 1 SEWER PIPE INSULATION DETAIL
 SCALE: N.T.S.



DETAIL 2 WATERMAIN LOWERING DETAIL
 TO BE USED AT SEWER/W.M. CROSSINGS WHERE A MINIMUM OF 0.5m VERTICAL CLEARANCE CANNOT BE ACHIEVED
 SCALE: N.T.S.



DETAIL 3 SUMP PUMP DETAIL
 SCALE: N.T.S.

NOTES TO CONTRACTOR:

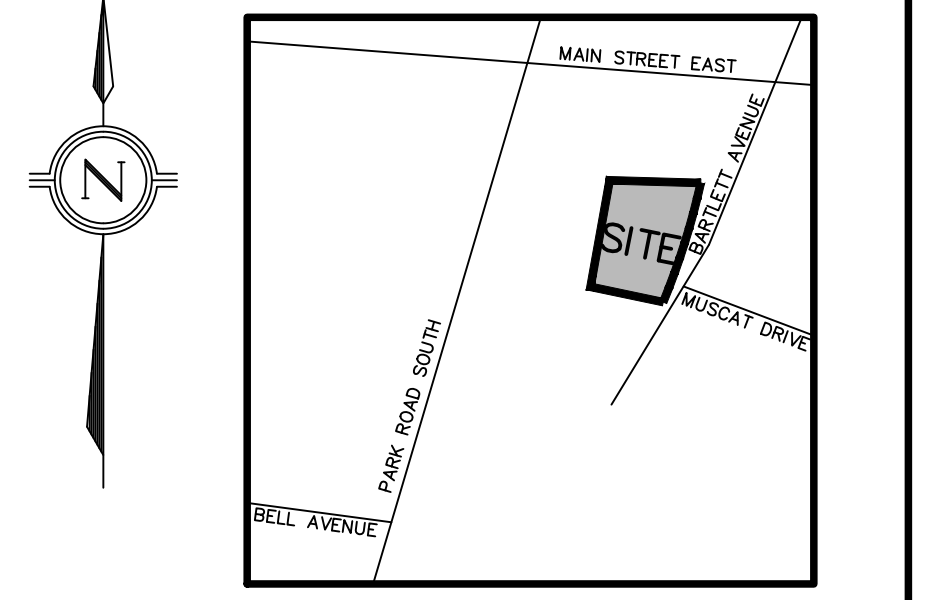
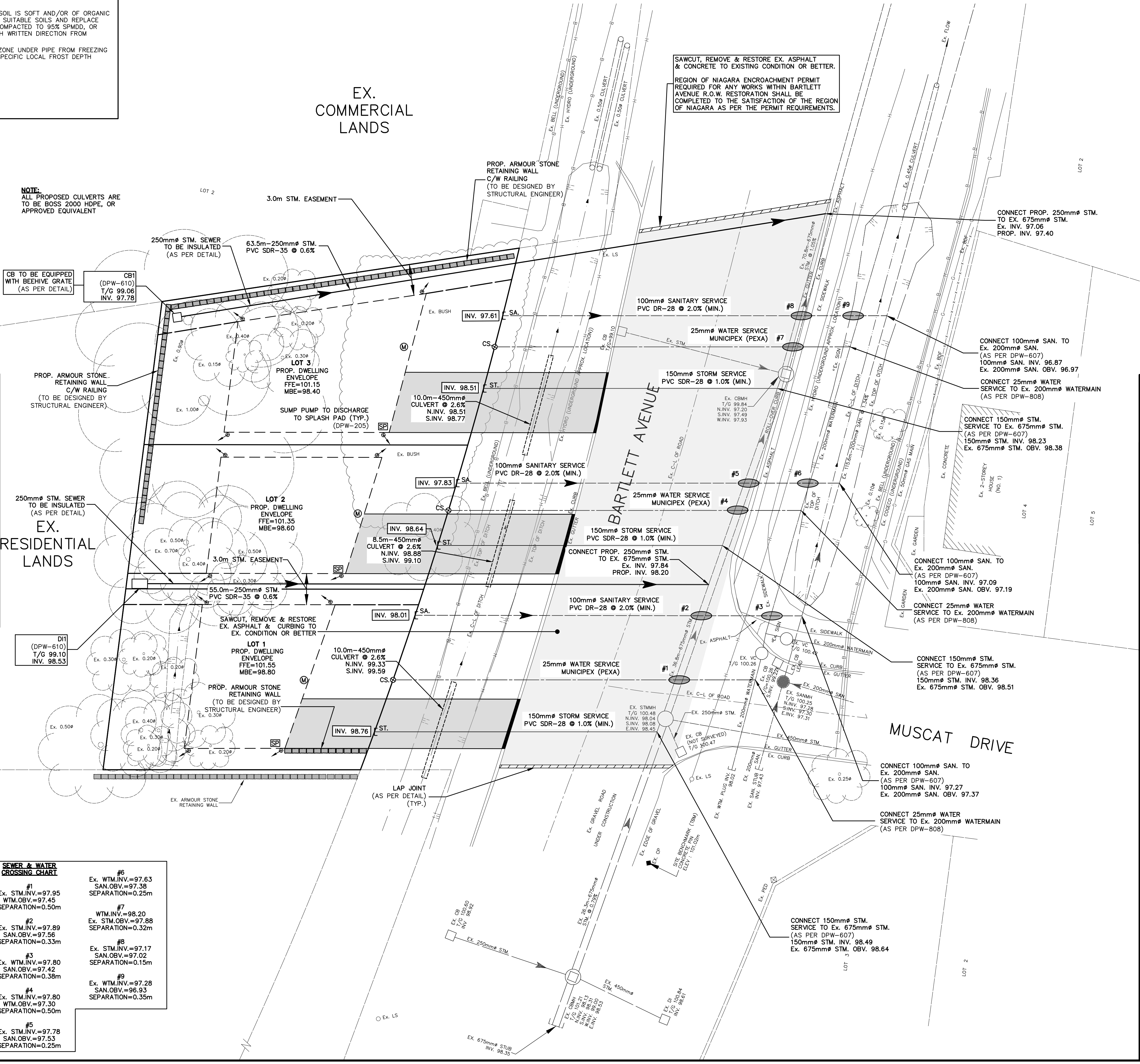
- INSPECTION**
 CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
- CONFIRMATION OF EXISTING INVERTS**
 72 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO LOCATE, EXPOSE AND VERIFY INVERTS OF EXISTING UTILITIES AND EXISTING SEWERS AT CONNECTION POINTS. SHOULD THE CONTRACTOR PROCEED WITHOUT COMPLETING THESE LOCATES, EXTRA COSTS RESULTING FROM DELAYS AND STANDBY TIME WILL NOT BE CONSIDERED.

SEWER & WATER CROSSING CHART	
#1 Ex. STM. INV.=97.95 WM. OBV.=97.45 SEPARATION=0.50m	#6 Ex. WTM. INV.=97.63 SAN. OBV.=97.38 SEPARATION=0.25m
#2 Ex. STM. INV.=97.89 SAN. OBV.=97.56 SEPARATION=0.33m	#7 Ex. STM. INV.=98.20 SAN. OBV.=97.98 SEPARATION=0.32m
#3 Ex. WTM. INV.=97.80 SAN. OBV.=97.42 SEPARATION=0.38m	#8 Ex. STM. INV.=97.17 SAN. OBV.=97.02 SEPARATION=0.15m
#4 Ex. STM. INV.=97.80 WM. OBV.=97.30 SEPARATION=0.50m	#9 Ex. WTM. INV.=97.28 SAN. OBV.=96.93 SEPARATION=0.35m
#5 Ex. STM. INV.=97.78 SAN. OBV.=97.53 SEPARATION=0.25m	

NOTE:
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EX. RESIDENTIAL LANDS

EX. COMMERCIAL LANDS



- LEGEND:**
- EXISTING CATCHBASIN/DITCH INLET
 - EXISTING STORM/SANITARY MANHOLE
 - PROPOSED REAR LOT CATCHBASIN/DITCH INLET
 - PROPOSED STORM/SANITARY MANHOLE
 - CS, V, B/O
 - PROPOSED CURB STOP/GATE VALVE/BLOW OFF
 - PROPOSED WATER METER
 - PROPOSED HYDRANT (DPW-801)
 - PROPOSED SUMP PUMP (AS PER DETAIL)
 - ▨ PROPOSED ROAD RESTORATION
 - ▨ PROPOSED DEPRESSED CURB & GUTTER (DPW-500)
 - #1 ○ SEWER CROSSING
 - MBE=100.00 PROPOSED MINIMUM BASEMENT ELEVATION
 - FFE=100.00 PROPOSED FINISH FLOOR ELEVATION

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NO.	DATE	BY	REVISIONS

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DESIGN	YM	CHK'D	SL	DATE
DRAWN	YM	CHK'D	SL	Oct. 11, 22

SCALE: 1:200

APPROVALS

BRANDON WARTMAN, C.E.T. DATE: _____
 DIRECTOR OF PUBLIC WORKS

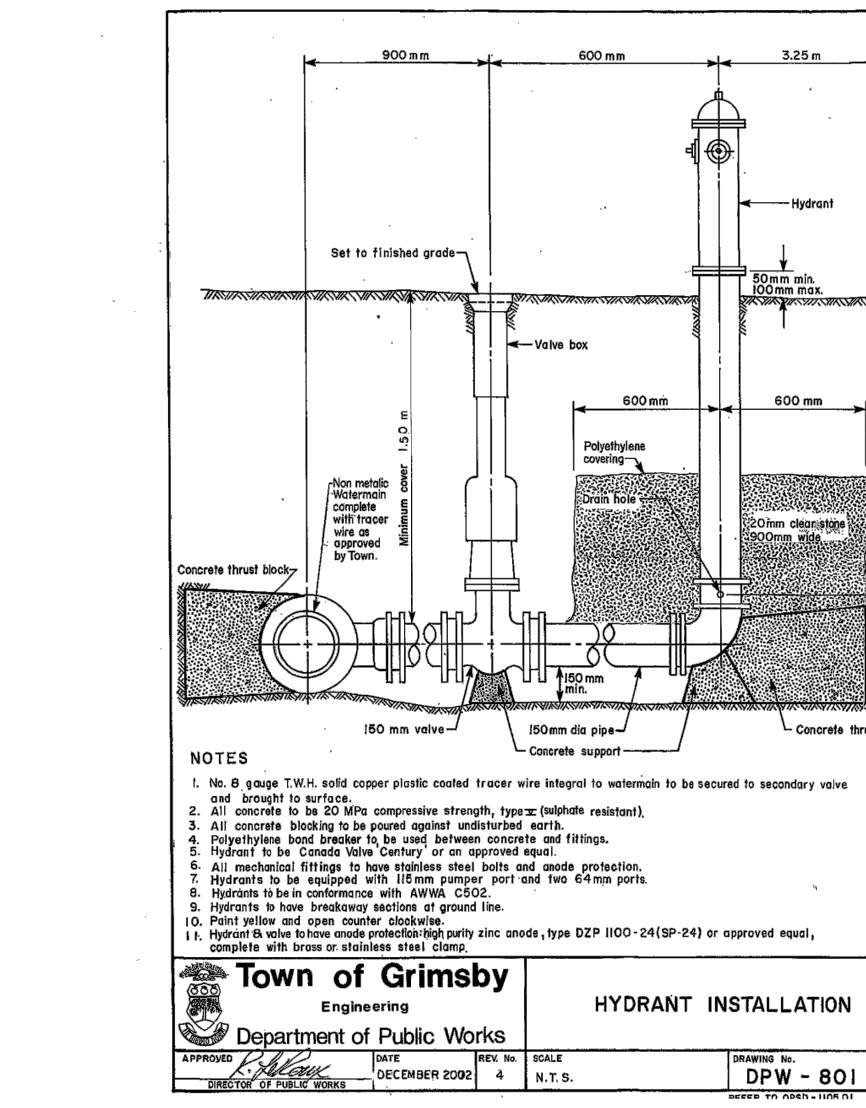
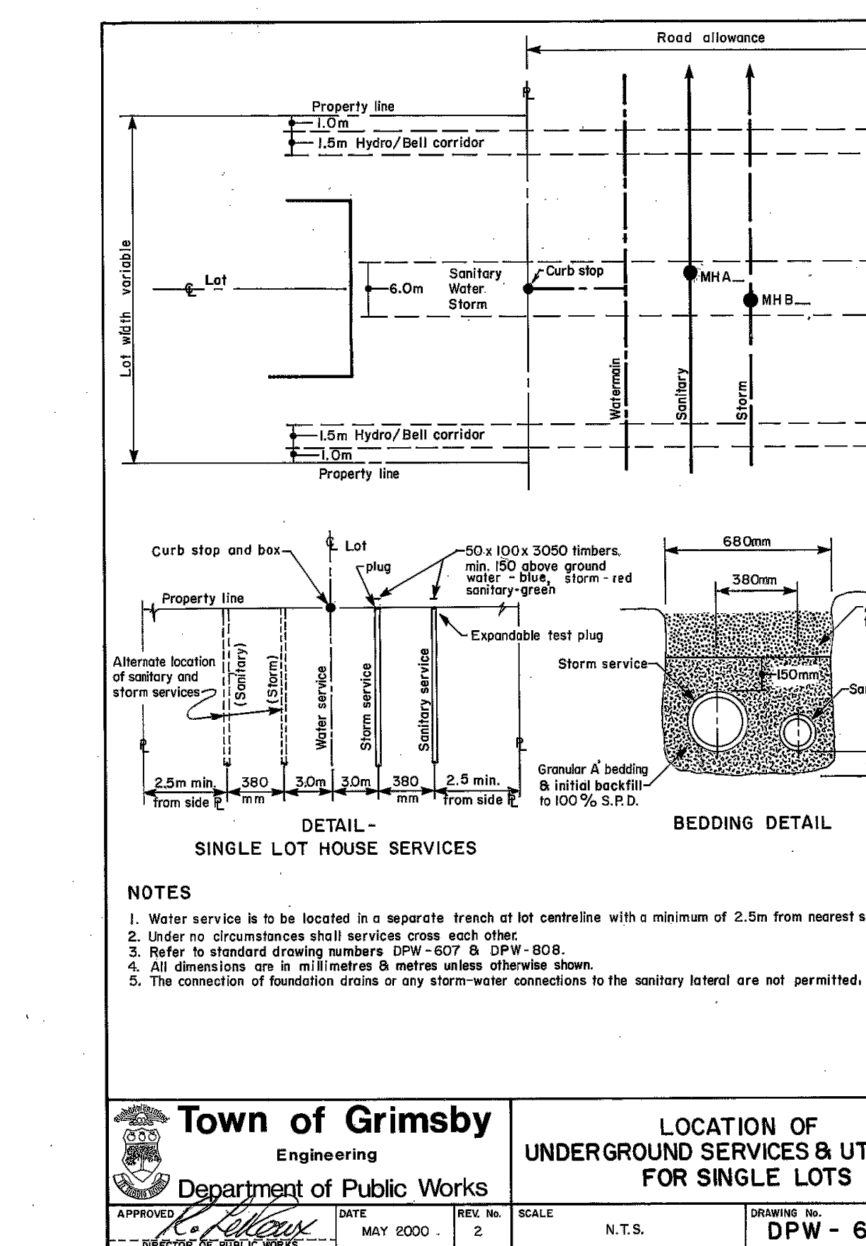
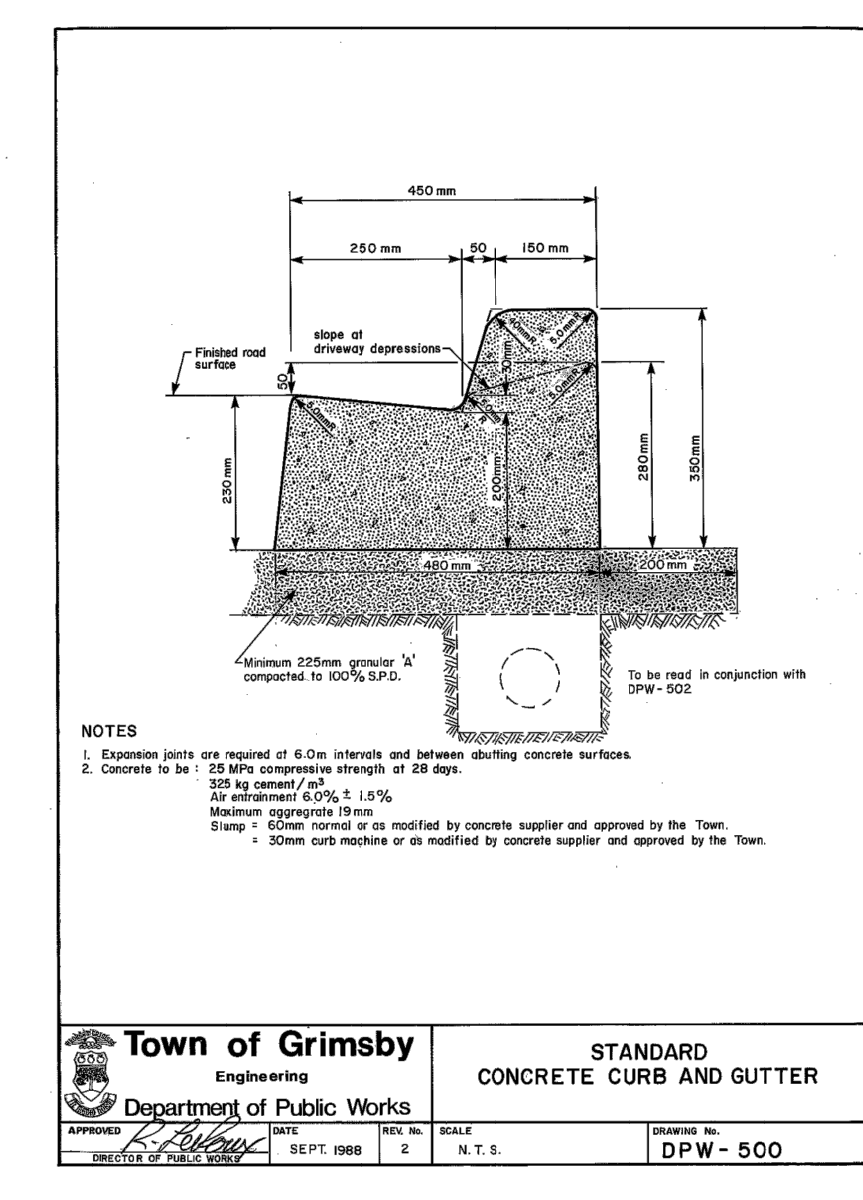
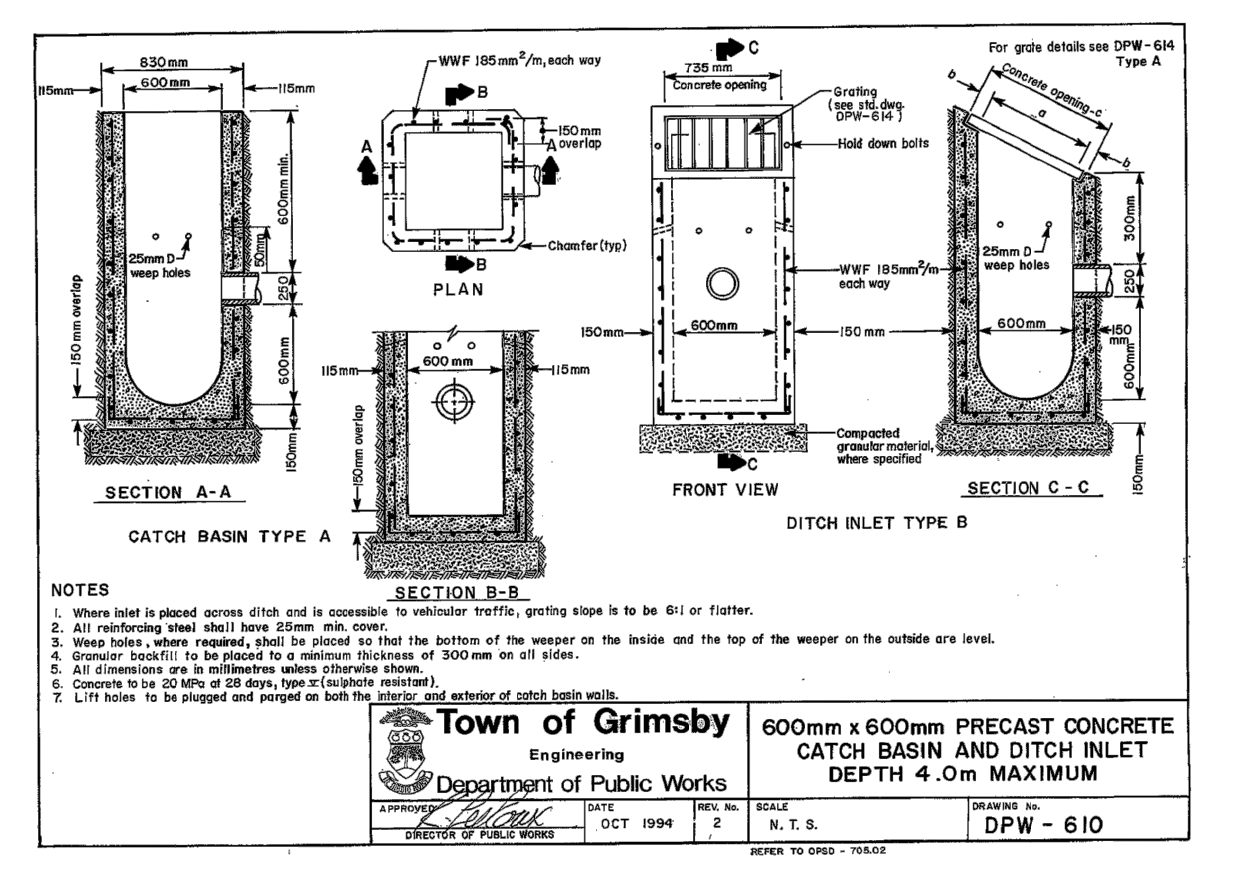
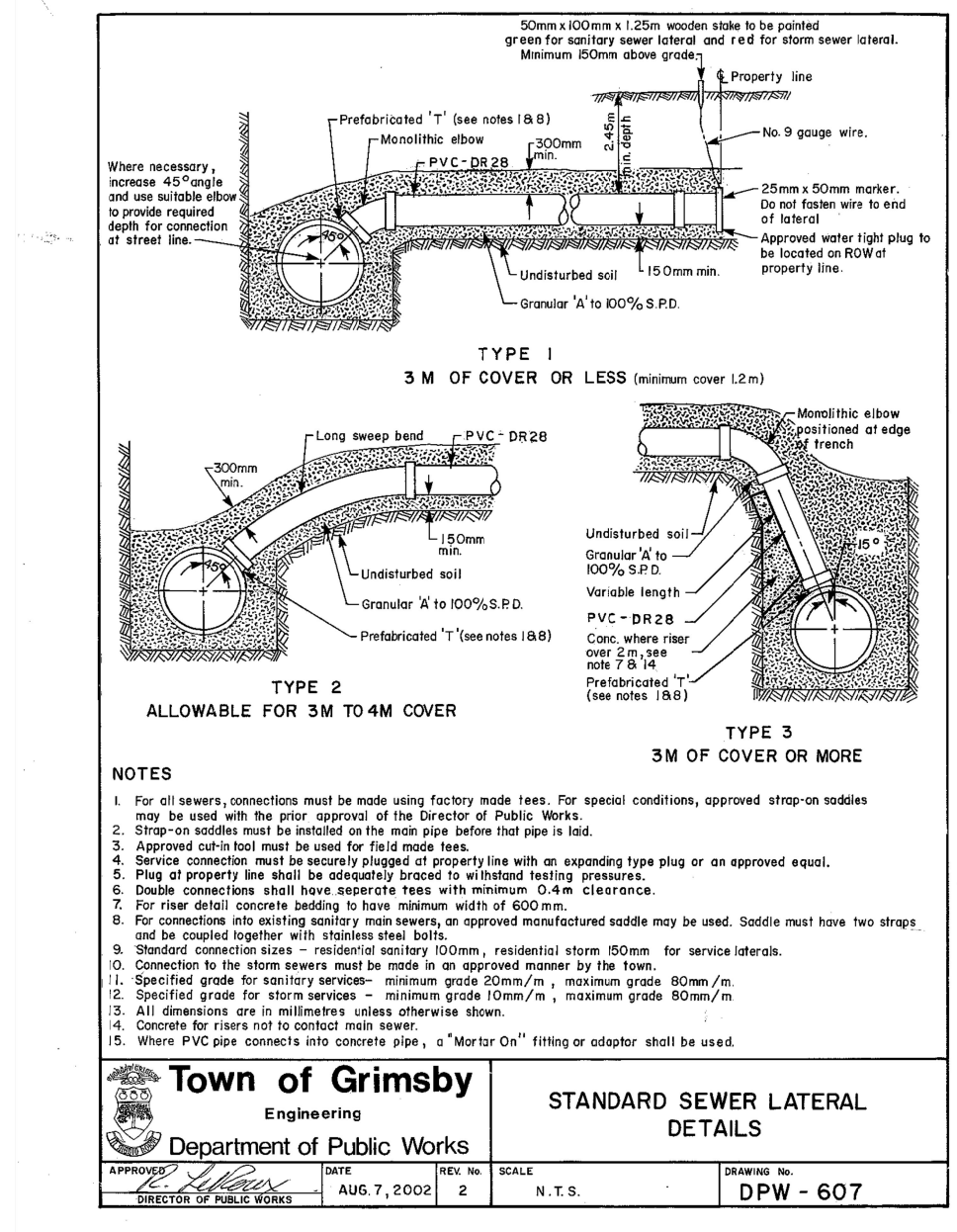
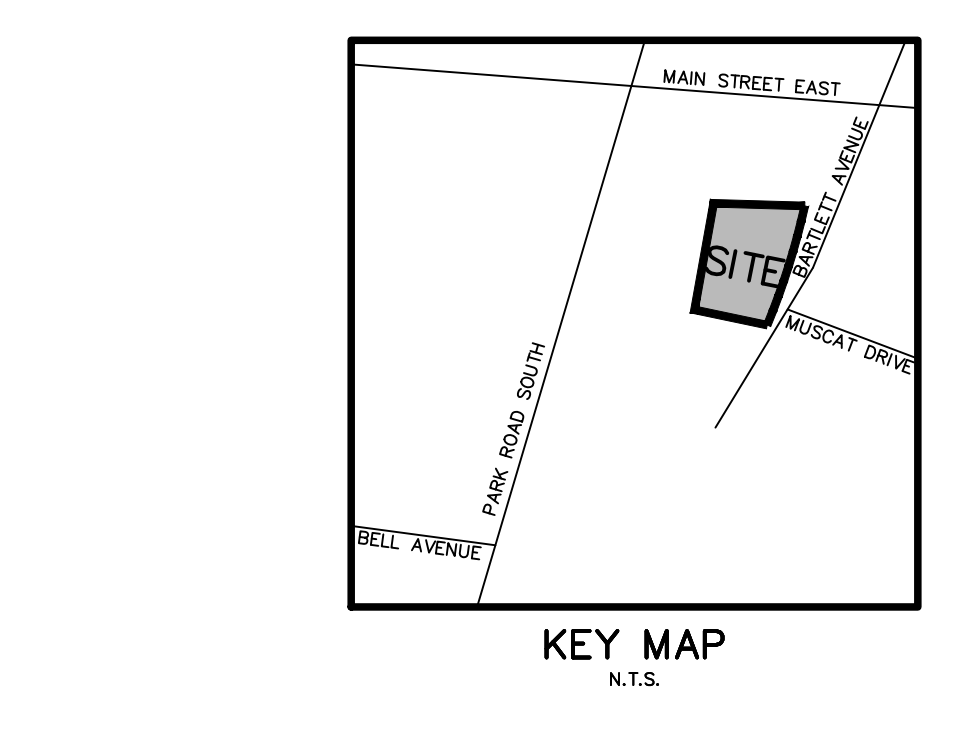
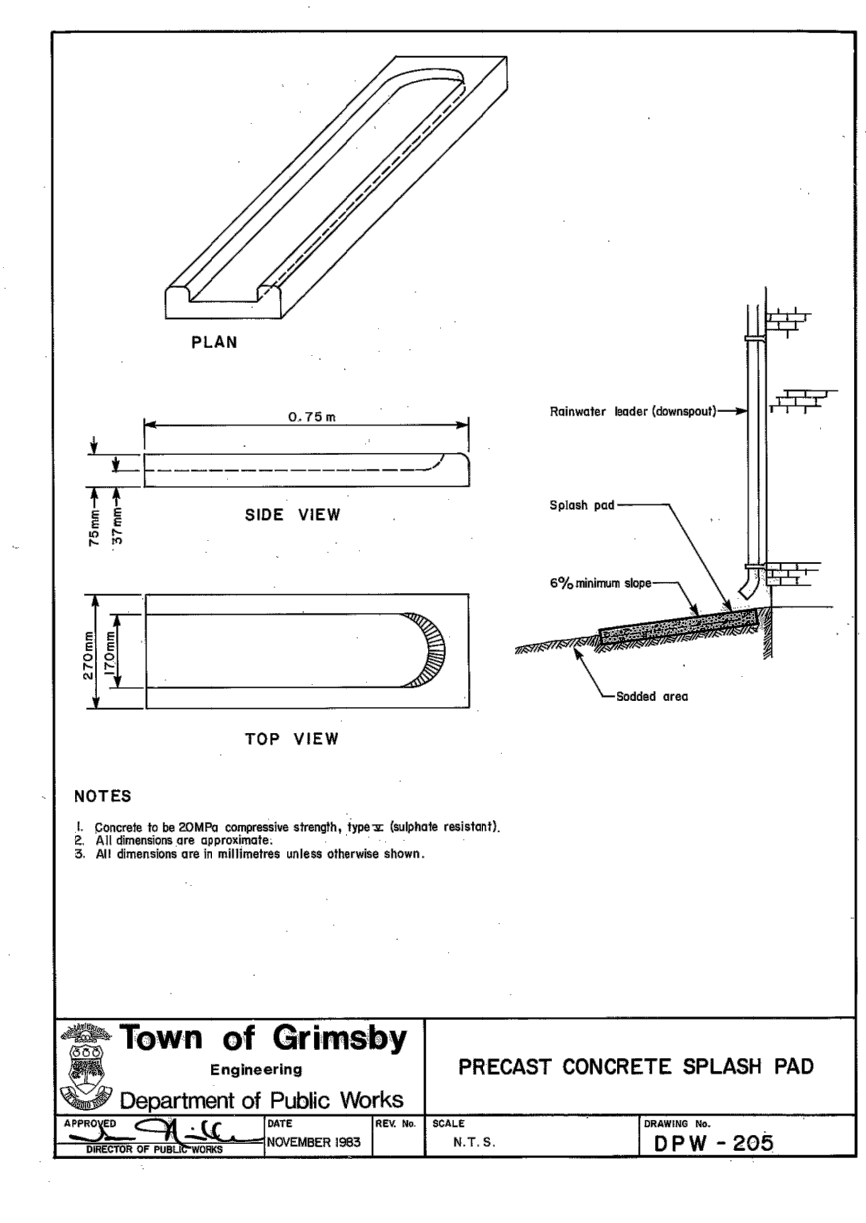
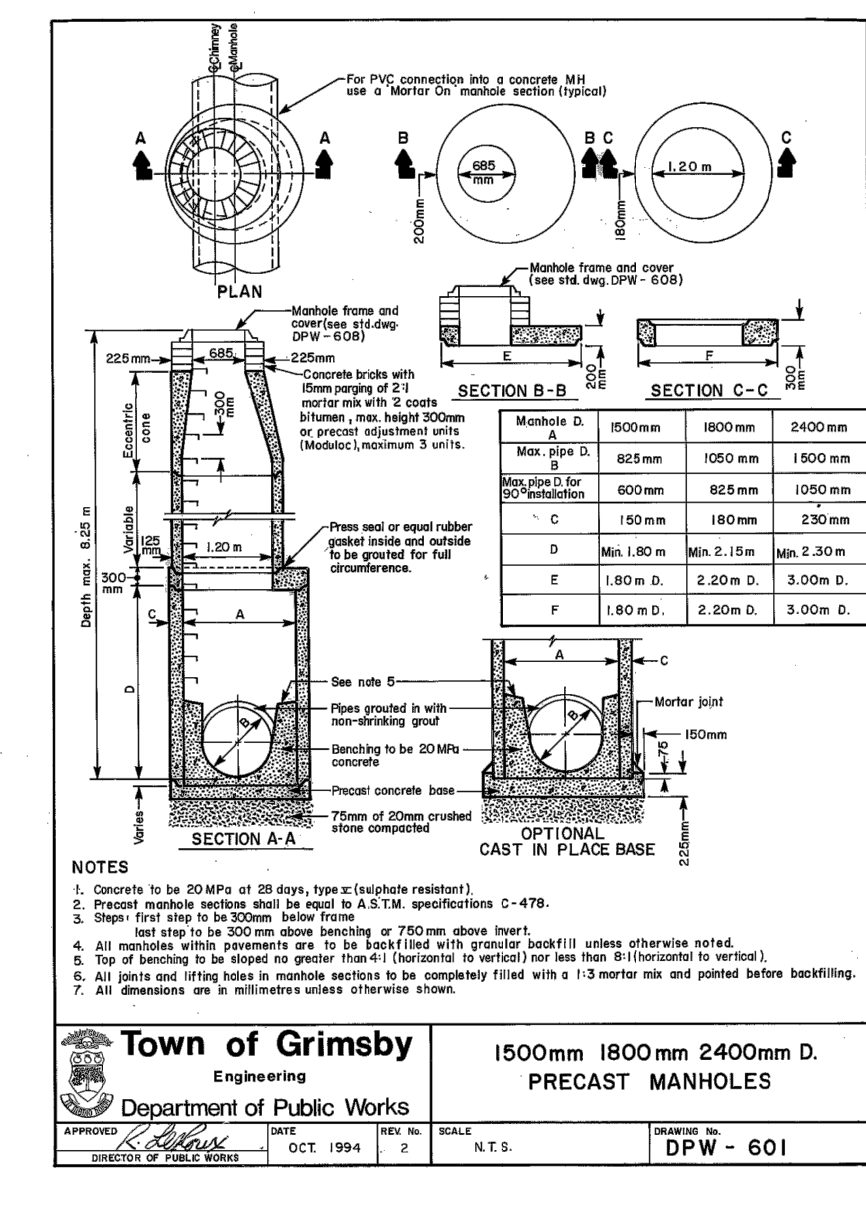
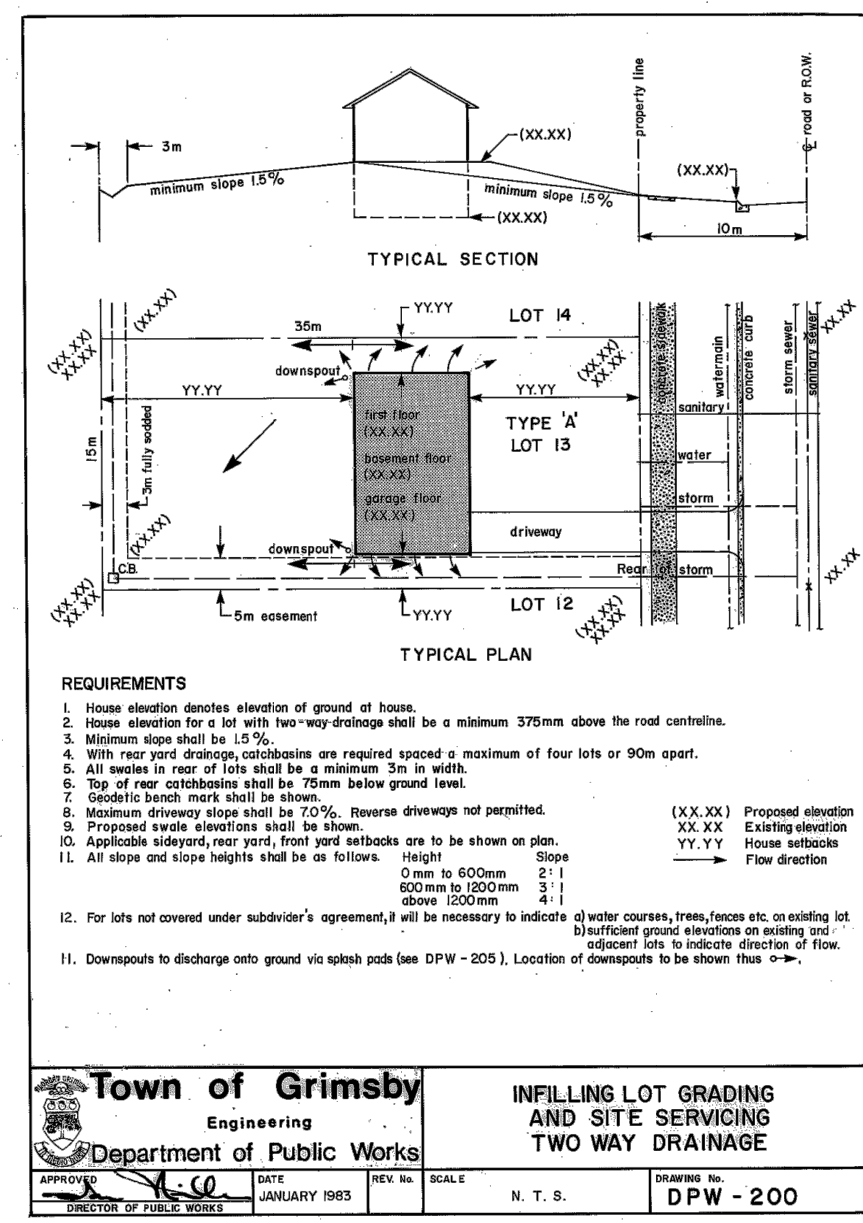
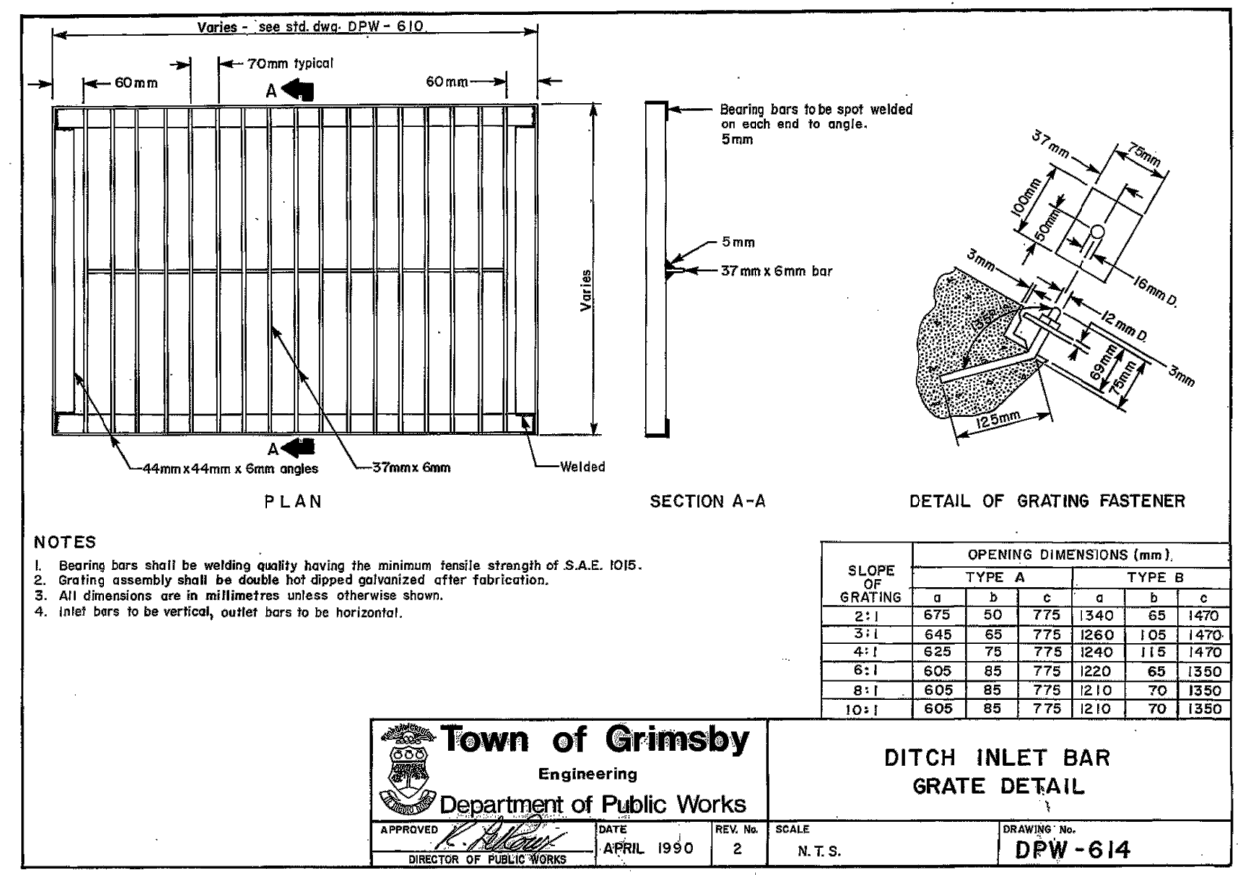
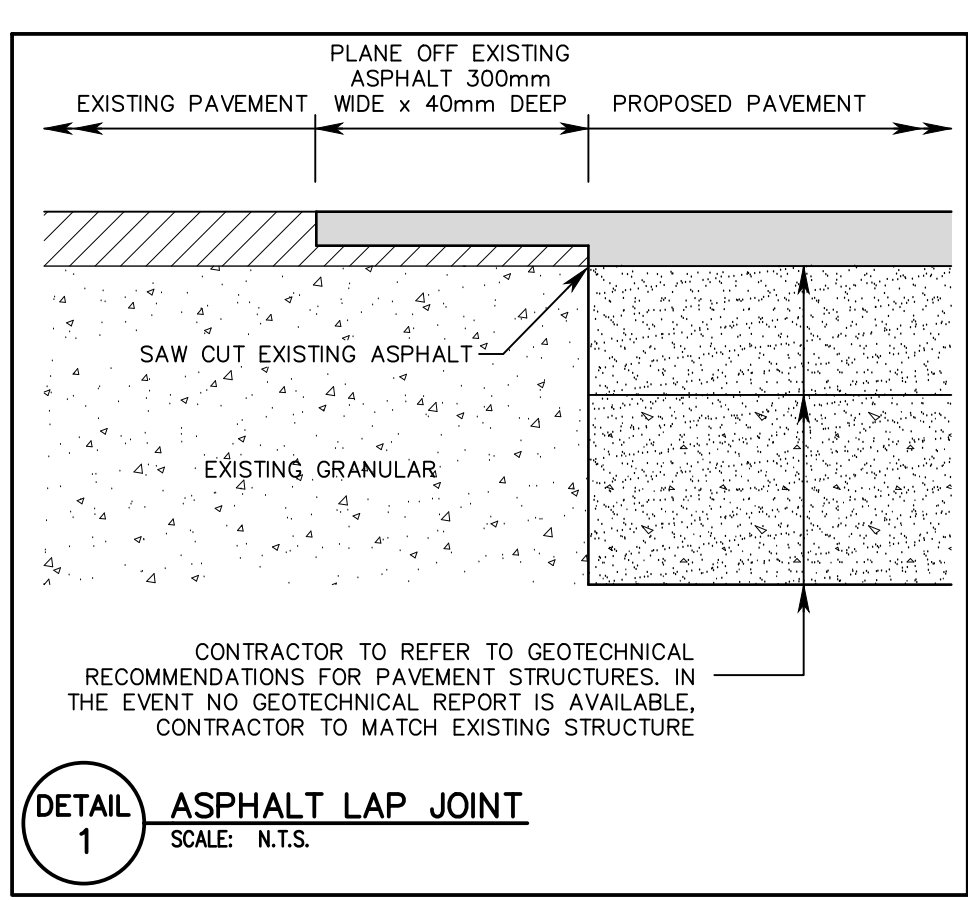
S. LLEWELLYN & ASSOCIATES LIMITED
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 Tel: (905) 631-6978
 Website: www.sla.on.ca
 email: info@sla.on.ca
 3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

CLIENT
LARRY THORNLEY ENTERPRISES LTD.
 3 WINDWARD DRIVE, GRIMSBY, ON

PROJECT NAME
BARTLETT AVENUE IN THE TOWN OF GRIMSBY GRIMSBY, ON

TITLE
PRELIMINARY SITE SERVICING PLAN

PROJECT No. 22054	DRAWING No. C102
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BENCH MARK NOTE:
 ELEVATIONS ARE GEODETIC, DERIVED BY GPS OBSERVATIONS, REFERRED TO GEODETIC SURVEY OF CANADA BENCHMARK 0011963U3506 9AKA 63U3506 HAVING AN ELEVATION OF 97.088m (CGVD-1928:1978)

LOCATION: GRIMSBY PARK SCHOOL NO.215, ON NORTH SIDE OF HIGHWAY NO. 8, 2.4KM EAST OF POST OFFICE, TABLET IN SOUTH OF FRONT STONE FOUNDATION WALL, IN FIRST COURSE OF STONE ABOVE SIDEWALK, 1.53M WEST OF SOUTHEAST CORNER, 74CM FROM A BASEMENT WINDOW, 1.63M BELOW RED BRICK SIDING, 42CM ABOVE SIDEWALK.

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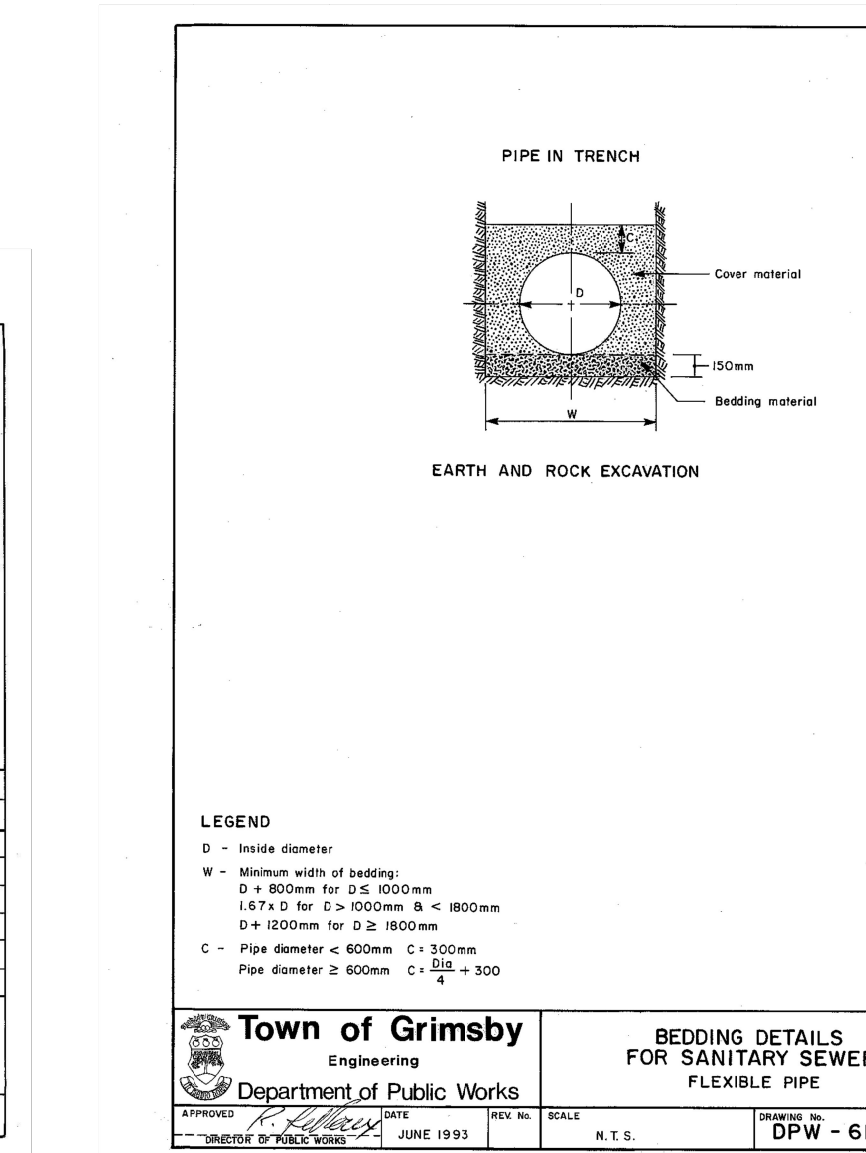
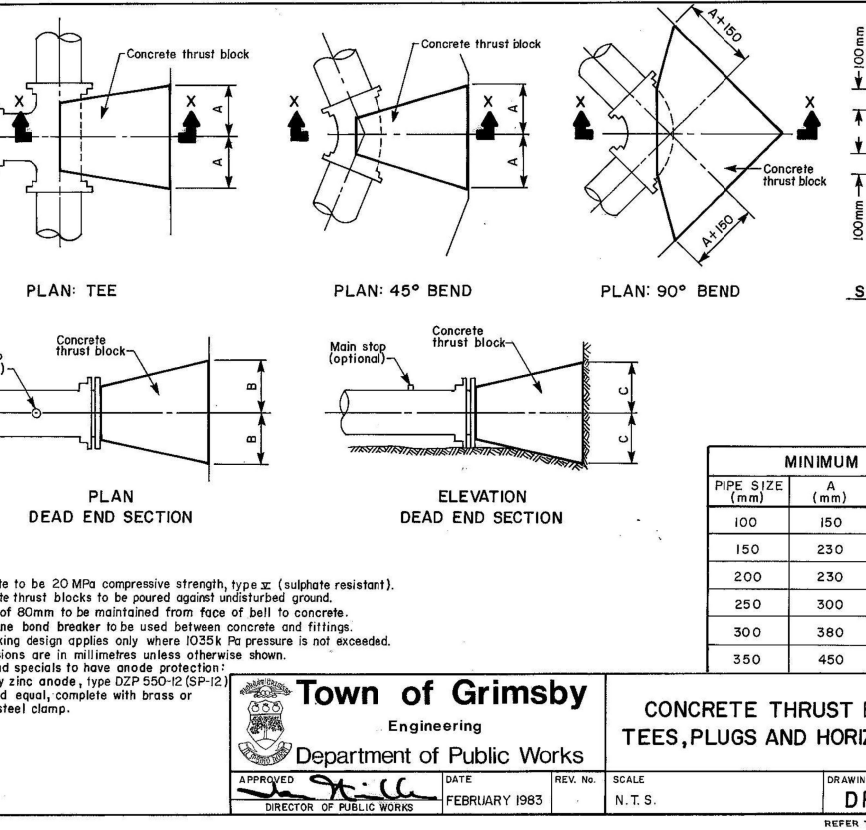
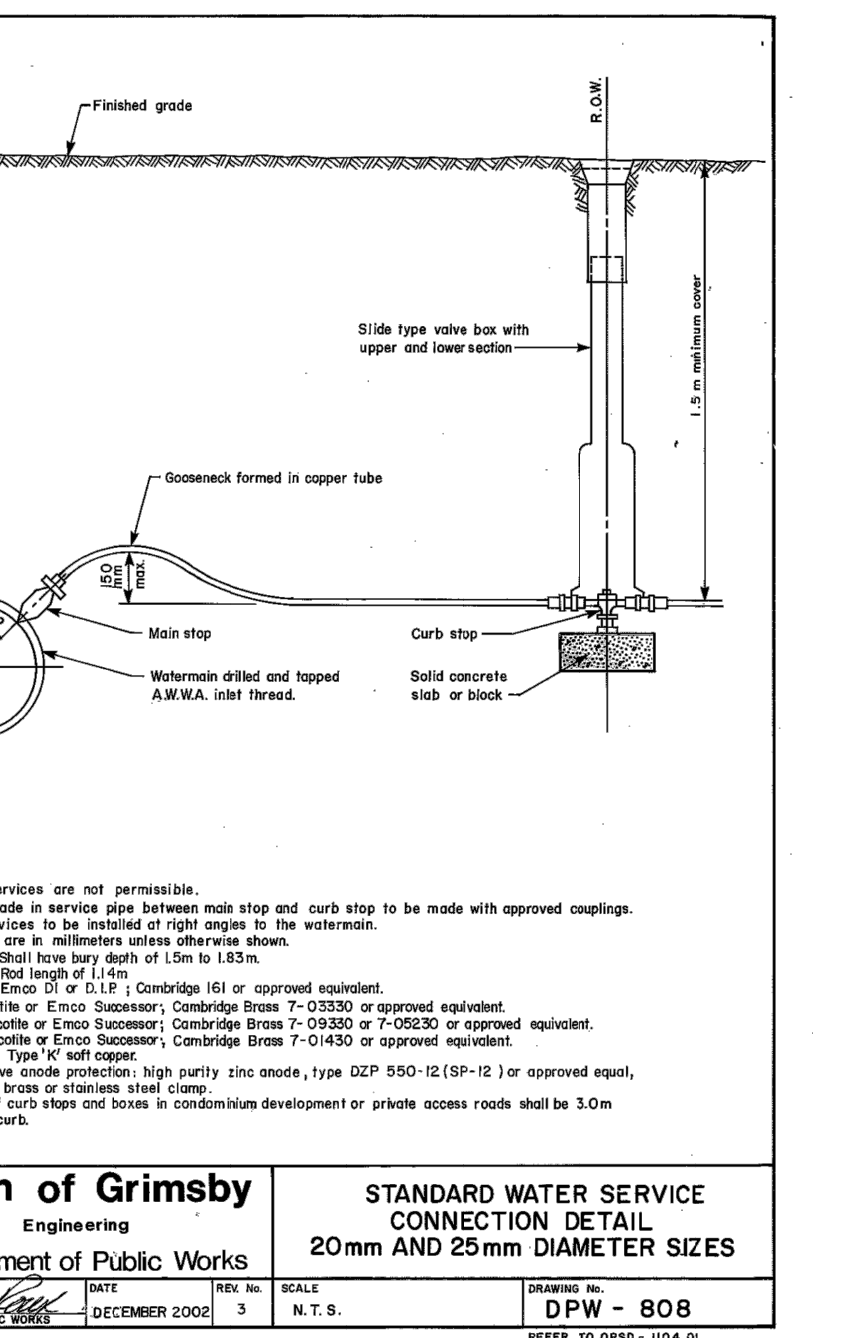
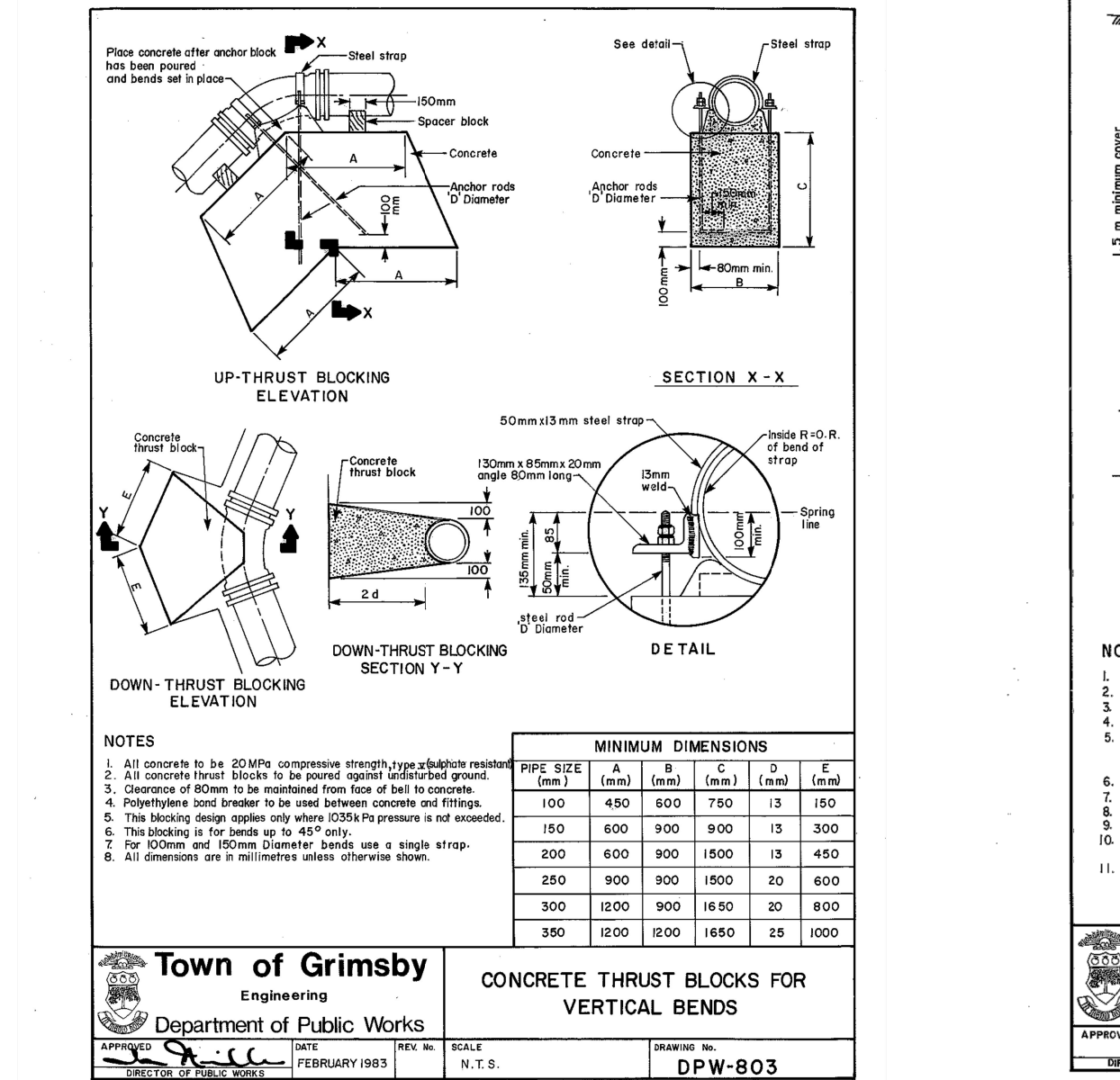
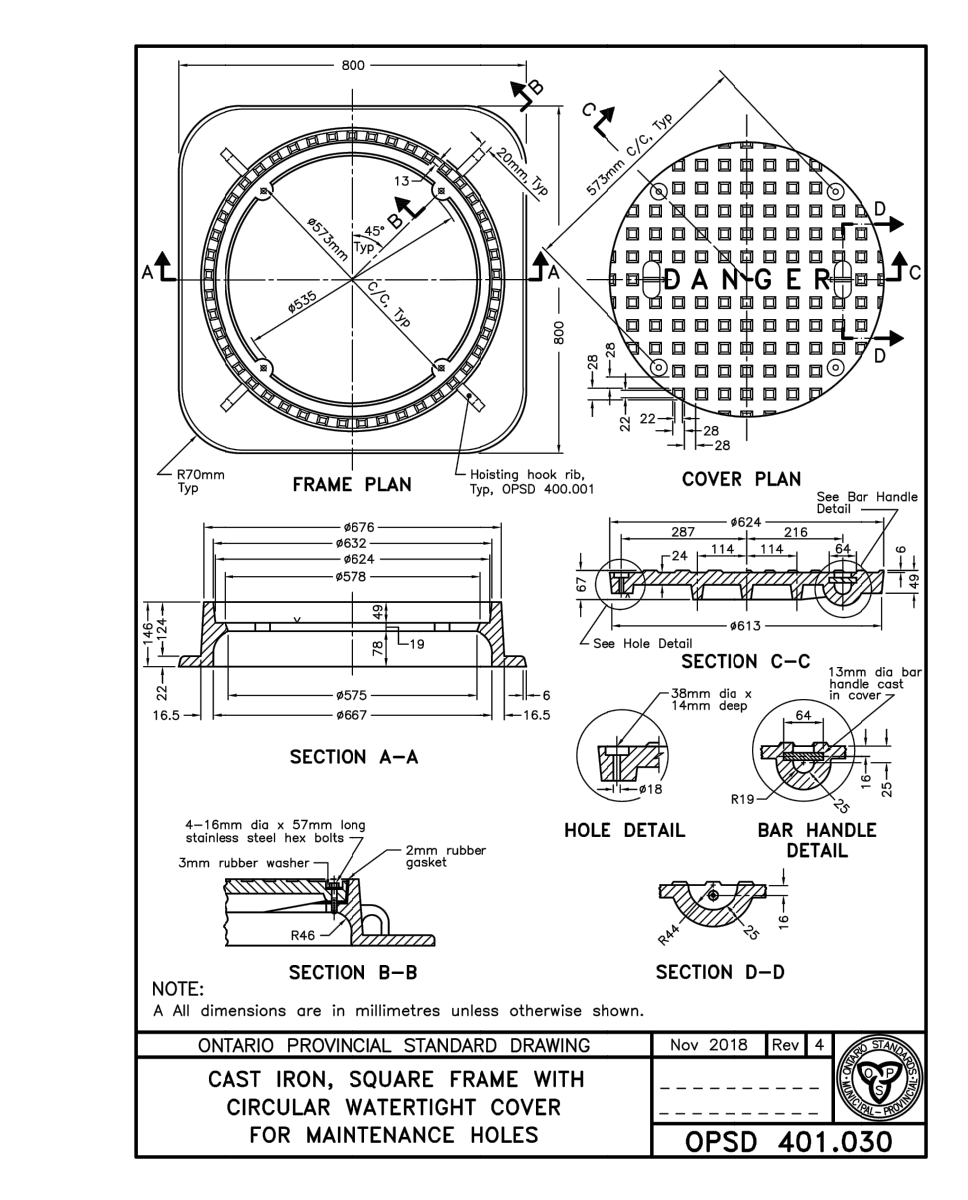
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DESIGN	YM	CHK'D	SL	DATE
DRAWN	YM	CHK'D	SL	Oct. 11, 22

SCALE: 1:200



APPROVALS

STAMP

BRANDON WARTMAN, C.E.T. DATE: _____
 DIRECTOR OF PUBLIC WORKS

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 CONSULTING ENGINEERS
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CLIENT
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 3 WINDWARD DRIVE, GRIMSBY, ON

PROJECT NAME
BARTLETT AVENUE IN THE TOWN OF GRIMSBY GRIMSBY, ON

TITLE
DETAILS PLAN

PROJECT No. 22054 DRAWING No. C103

