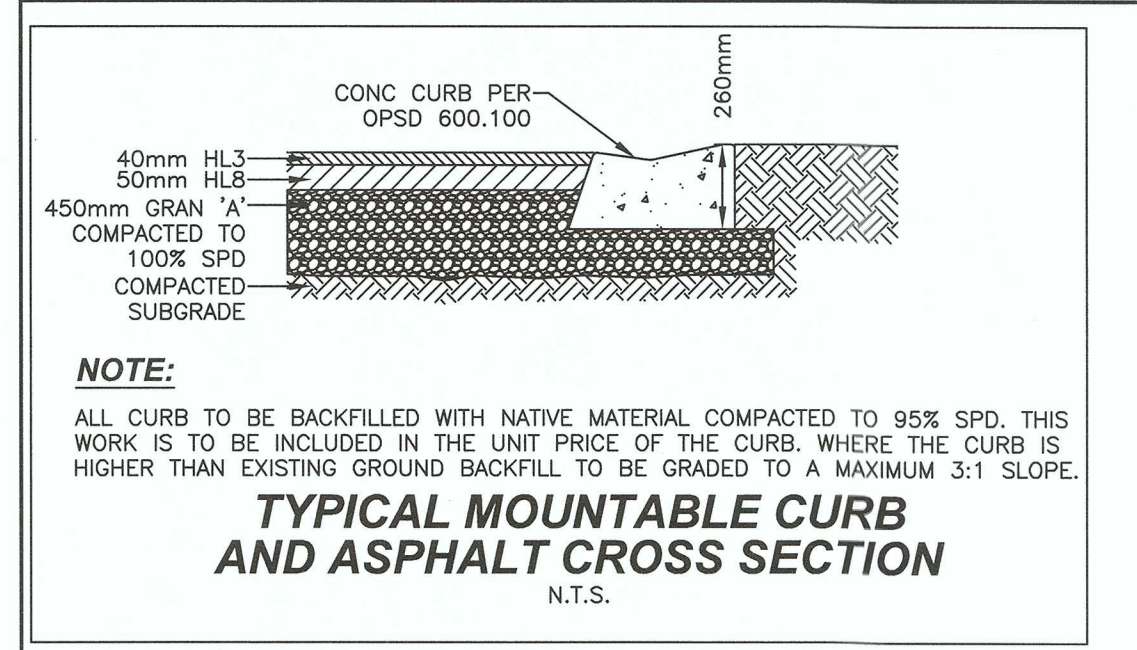
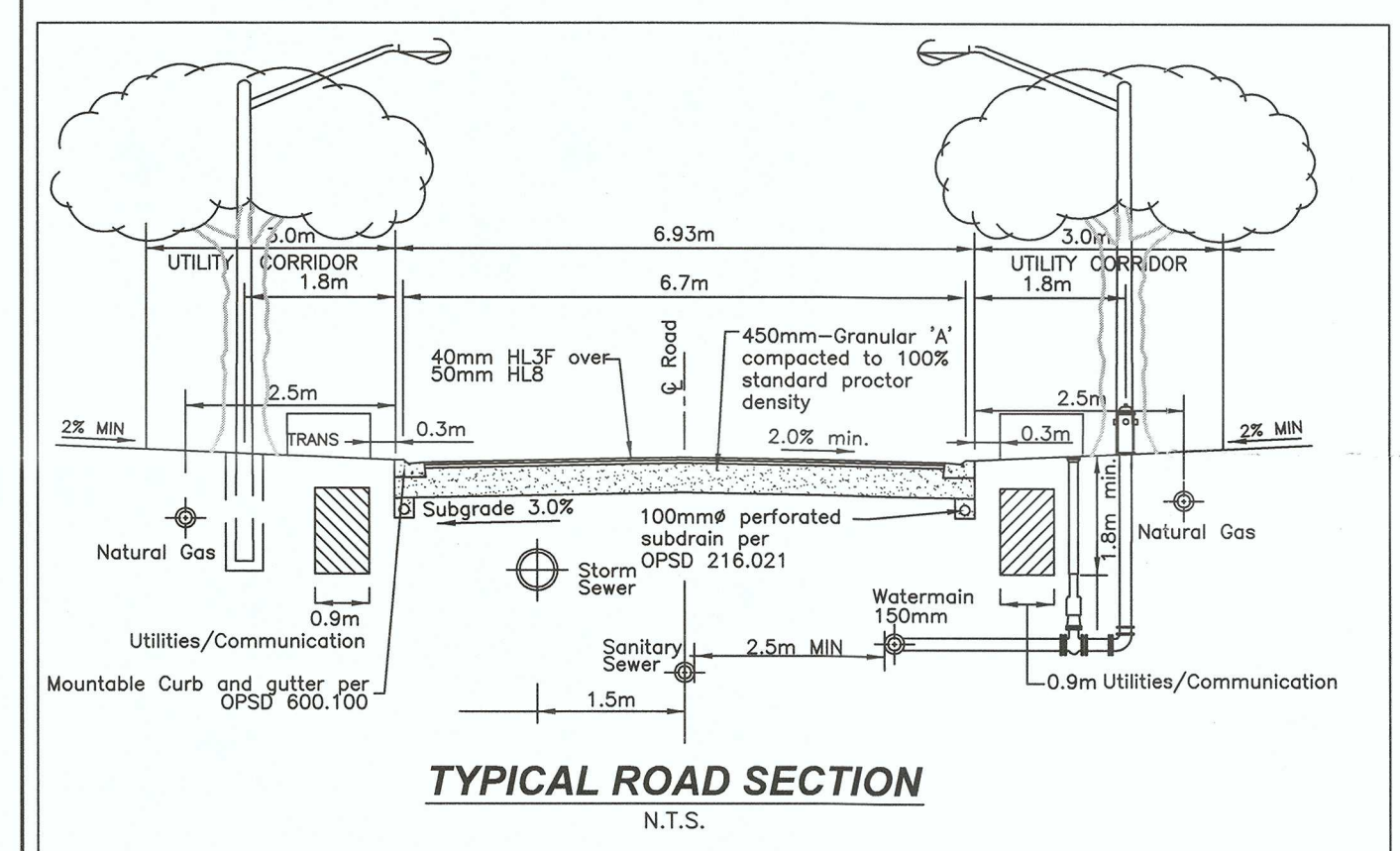




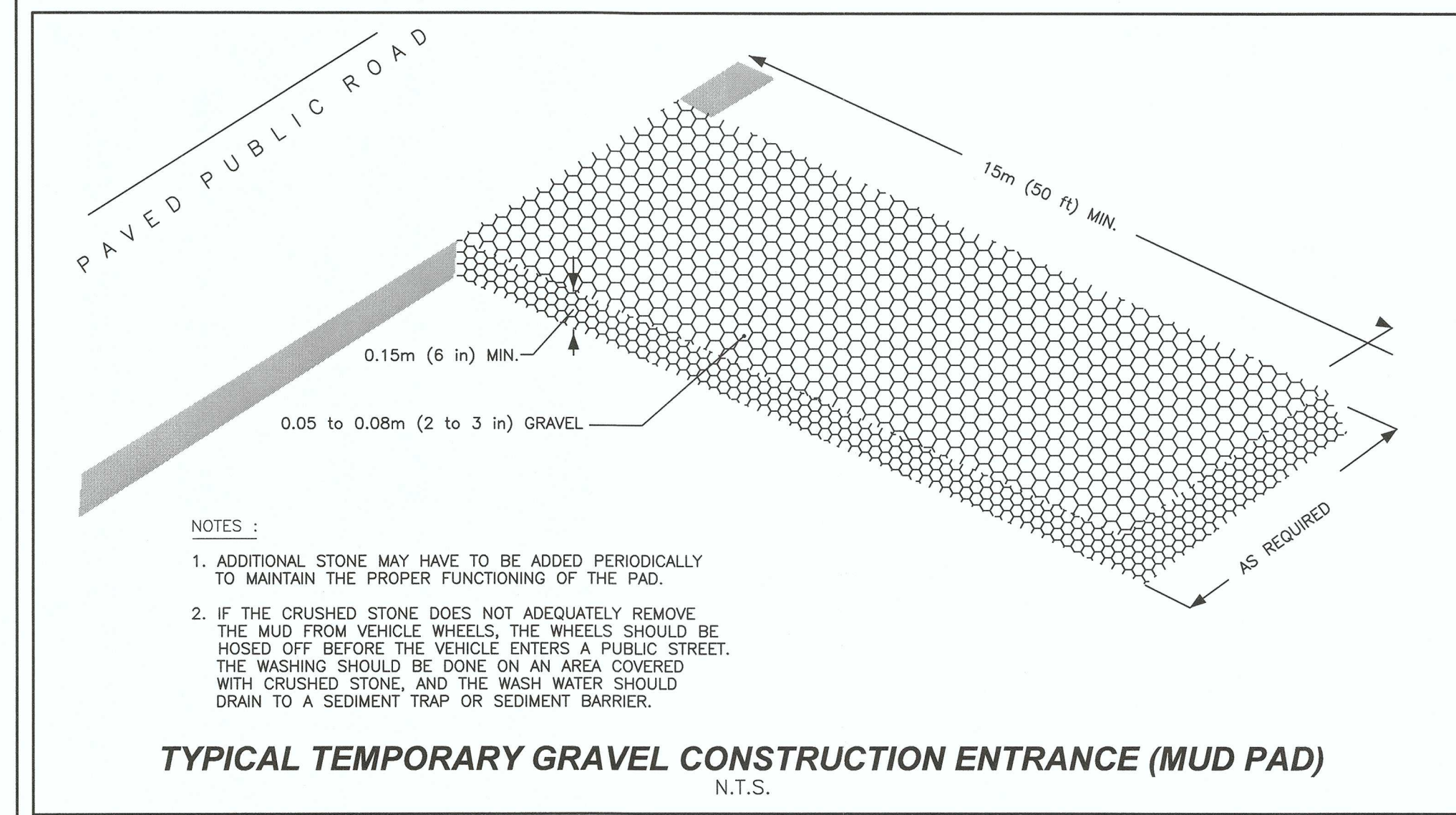
KEY PLAN
N.T.S.



TYPICAL MOUNTABLE CURB AND ASPHALT CROSS SECTION
N.T.S.



TYPICAL ROAD SECTION
N.T.S.



TYPICAL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (MUD PAD)
N.T.S.

LEGEND

WV	EX WATER VALVE
WV	PROP WATER VALVE
WC	EX WATER VALVE CHAMBER
WMC	PROP WATER VALVE CHAMBER
HYD	EX HYDRANT
HYD	PROP HYDRANT
CB	EX CATCHBASIN
CB	PROP CATCHBASIN
DCB	EX DOUBLE CATCHBASIN
DCB	PROP DOUBLE CATCHBASIN
CBMH	EX CATCHBASIN MANHOLE
CBMH	PROP CATCHBASIN MANHOLE
STM	EX STORM MANHOLE
STM	PROP STORM MANHOLE
SAN	EX SANITARY MANHOLE
SAN	PROP SANITARY MANHOLE
PLUG	EX PLUG
PLUG	PROP PLUG
CMB	EX COMMUNITY MAILBOX
HP	EX HYDRO POLE
TRANS	EX HYDRO TRANSFORMER
TRANS	PROP HYDRO TRANSFORMER
SL PED	EX STREET LIGHT PEDESTAL
SL PED	PROP STREET LIGHT PEDESTAL
LS	EX LIGHT STANDARD
LS	PROP LIGHT POLE
PL	EX TACTILE WARNING PLATE
PL	PROP TACTILE WARNING PLATE
DOOR	EX DOOR
DOOR	PROP DOOR
DOOR	PROP FIRE EXIT
WAT	EX WATERMAIN
WAT	PROP WATER LATERAL WITH CURBSTOP
WAT	PROP WATERMAIN
STM	EX STORM SEWER
STM	PROP STORM SEWER
STM	EX SANITARY SEWER
STM	PROP SANITARY SEWER
SAN	EX SANITARY LATERAL WITH CLEANOUT
SAN	PROP SANITARY LATERAL WITH CLEANOUT
SAN	EX CURB
SAN	PROP CURB
SAN	EX DEPRESSED CURB
SAN	PROP DEPRESSED CURB
SAN	EX CHAIN-LINK FENCE
SAN	PROP CHAIN-LINK FENCE
SAN	EX WOOD FENCE
SAN	PROP WOOD FENCE

NOTES

STORM SEWERS

- STORM SEWER SHALL BE PVC RIBBED (CSA 182.4) BEDDING PER OPSD 802.010, UPTO 450mm, CONC CL650 OVER 450mm, UNLESS STATED OTHERWISE.
- STORM MANHOLES PER OPSD 701.010, 701.011 INCLUDING BENCHING PER 701.021, EXCEPT ON CATCH BASIN MANHOLES, WHERE 0.30m DEPTH SLUMP TO BE PROVIDED.
- CATCH BASINS PER OPSD 705.010 WITH GRATES PER 400.020.
- STORM LATERALS TO BE 100mm (WHITE SINGLE) 150mmx100mm (WHITE DUAL) PVC DR28 (CSA 182.2) AND TO BE EXTENDED TO THE BUILDING FACE.
- ALL BLOCKS OF UNITS TO HAVE SUMP PUMPS FOR FOUNDATION DRAINAGE PER CITY OF NIAGARA FALLS DETAILS WITH CONNECTION TO STORM LATERAL OR TO GRADE WITH SPLASH PAD.
- CATCH BASIN LEADS TO BE 200mm PVC PIPE MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
- DITCH INLETS TO BE PER OPSD 705.030, 3:1 GRADE SLOPE.

SANITARY SEWERS

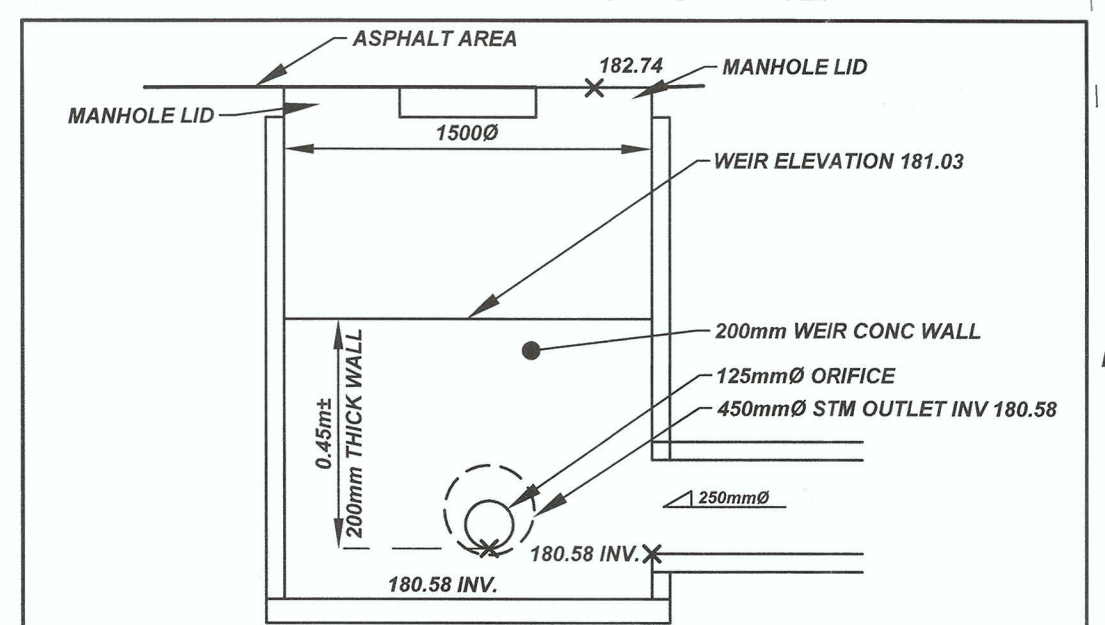
- SANITARY SEWER SHALL BE PVC DR35, AND BEDDING PER OPSD 802.010.
- SANITARY MANHOLES PER OPSD 701.010, INCLUDING BENCHING PER 701.021, AND FRAME & GRATES PER 401.010.
- SANITARY LATERALS TO BE 100mm PVC DR28 (GREEN) (CSA 182.2) AND TO BE EXTENDED 1.0m INSIDE BUILDING.
- TEE-WYE TO BE USED AT CONNECTION WITH SANITARY LATERAL AND SANITARY SEWER.

WATER SYSTEM

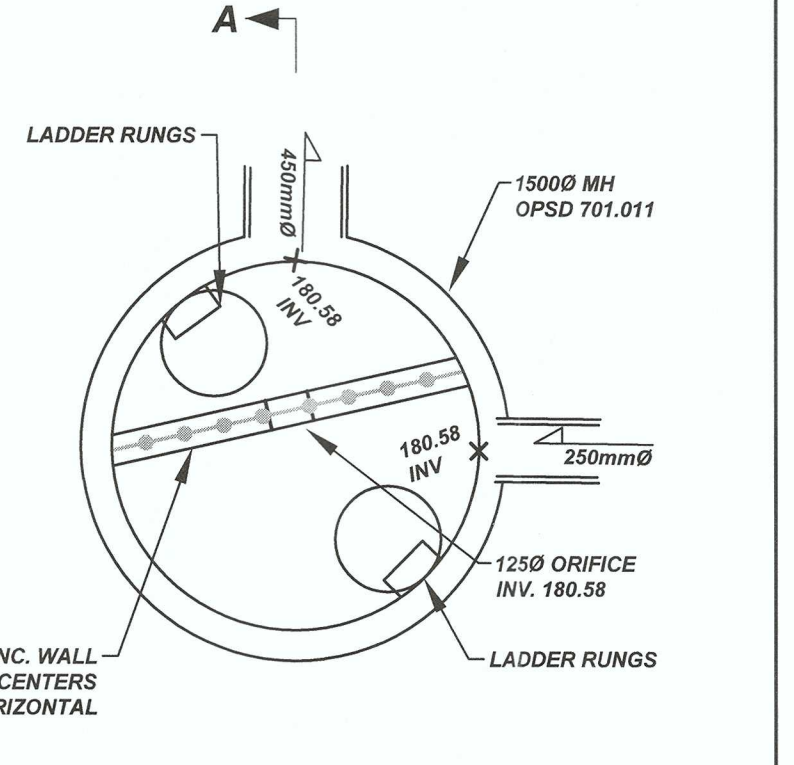
- WATERMAIN SHALL BE HDPE BEDDING PER OPSD 802.010, INCLUDING TRACER WIRE, CATHODIC PROTECTION ON METALLIC FITTINGS.
- MINIMUM COVER FOR WATERMAIN IS 1.8m TO THE OVERTOP OF THE PIPE.
- WATER SERVICE TO BE 25mm PEX CONNECTION PER OPSD 1104.010, TO EXTEND TO CURBSTOP INCLUDING TRACER WIRE.

GENERAL

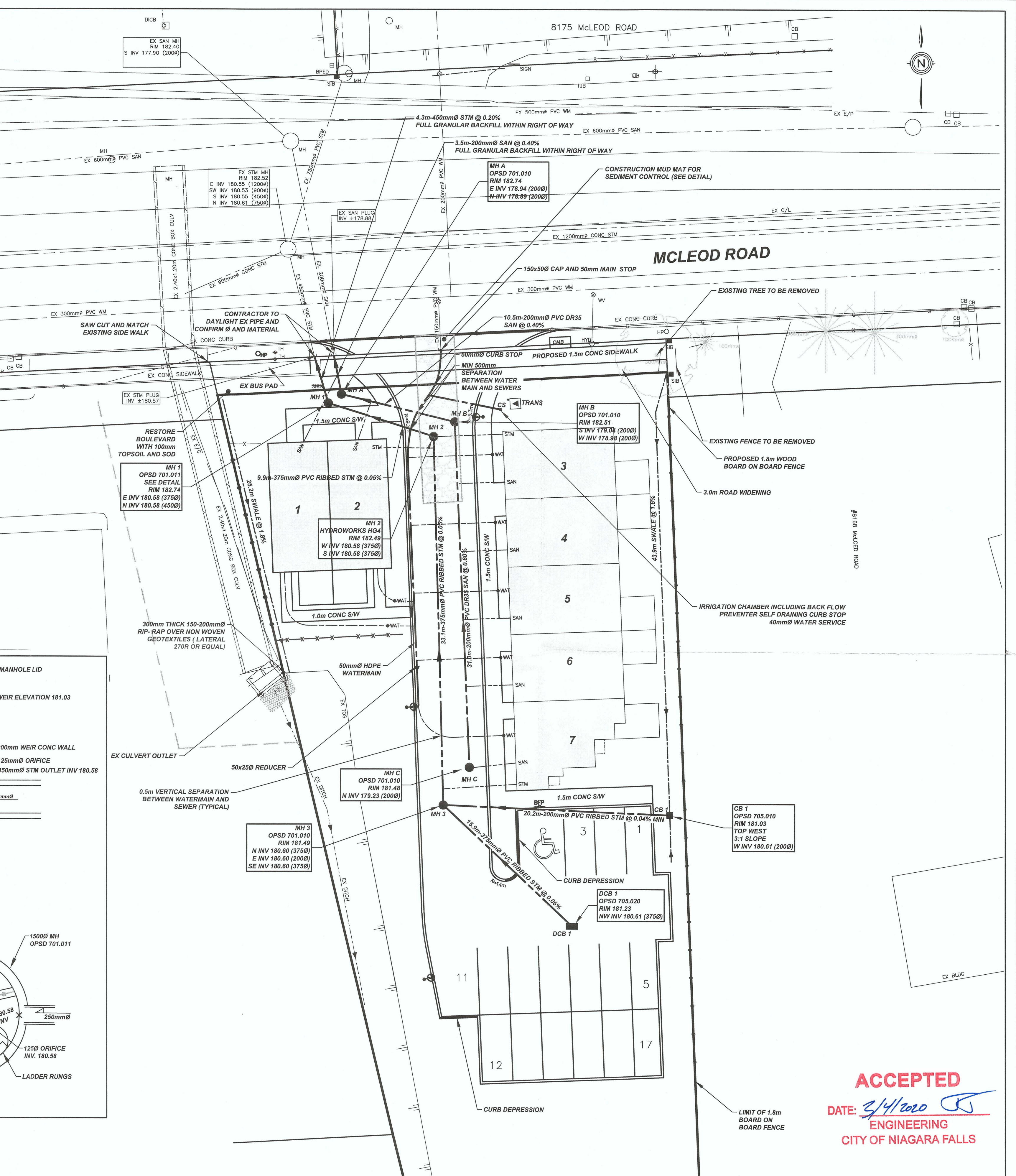
- ALL CURB TO BE CONC. BARRIER CURB PER OPSD 600.110, PARKING AREAS CURB TO BE CONC. BARRIER PER OPSD 600.040.
- ALL ASPHALT PARKING LOT AREAS TO BE GRADED AT A MINIMUM OF 1.0%.
- ALL DRIVEWAY AND PARKING LOT GRADES REFER TO FINISHED ASPHALT GRADE.
- ALL GRADES OUTSIDE THE ASPHALT AREAS REFER TO FINISHED GRADE LEVELS.
- ALL GRASSED AREAS OUTSIDE THE LIMITS OF THE SITE DISTURBED BY THE CONTRACTOR SHALL BE REINSTATED WITH 100mm TOPSOIL AND SOD.
- THE POSITION OF THE EXISTING POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONSTRUCTION DRAWINGS AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.
- BEFORE STARTING WORK, THE CONTRACTOR SHALL CHECK WITH ALL UTILITIES INVOLVED AND INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- SITE SERVICING TO BE CONSTRUCTED PER OPSD AND OPSD STANDARDS AND SPECIFICATIONS AND ANY APPLICABLE CITY OF NIAGARA FALLS SPECIFICATION AND SPECIAL PROVISIONS.
- FINISHED LOT GRADING NOT TO ADVERSELY AFFECT DRAINAGE OF EXISTING LANDS.
- TIE INTO SERVICES ON WILLOUGHBY DRIVE, WEINBRENNER ROAD AND WORKS WITHIN THE RIGHT OF WAY REQUIRE THE CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT.
- ROOF WATER LEADERS SHALL DISCHARGE TO GRADE IN LANDSCAPE AREAS WITH PRECAST FLOW DIVERTERS AWAY FROM SIDEWALKS AND BUILDING FOUNDATIONS.



PROP STM MH '1' DETAIL
N.T.S.



TYPICAL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (MUD PAD)
N.T.S.

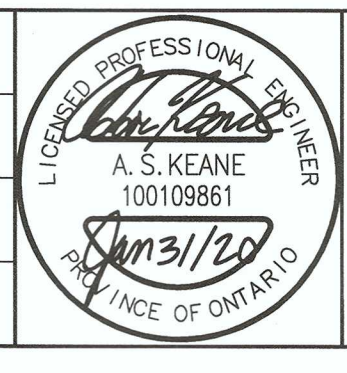


#	REVISION	DATE	INIT
2	THIRD ENGINEERING SUBMISSION	2020-01-31	KA
1	SECOND ENGINEERING SUBMISSION	2019-11-27	KA
0	FIRST ENGINEERING SUBMISSION	2019-08-20	KA

NOTES:

- THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWER, AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT 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.
- PROPERTY LINES WERE PLOTTED USING REGISTERED PLANS AND BARS LOCATED IN THE FIELD, TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION MUST COMPLY WITH THE NIAGARA PENINSULA STANDARD CONTRACT DOCUMENT.

DRAFTING: KA
DESIGN: AK
CHECKED BY: MH
APPROVED BY: AK



8196 MCLEOD
CITY OF NIAGARA FALLS
GENERAL SERVICING PLAN

ACCEPTED
DATE: 3/4/2020
ENGINEERING
CITY OF NIAGARA FALLS

CONSULTANT FILE No. 17113
DATE: 2020-01-31
PRINTED: 2020-01-31
SCALE: 1:200
REF No.
DWG No. 17113-GSP
REV 2