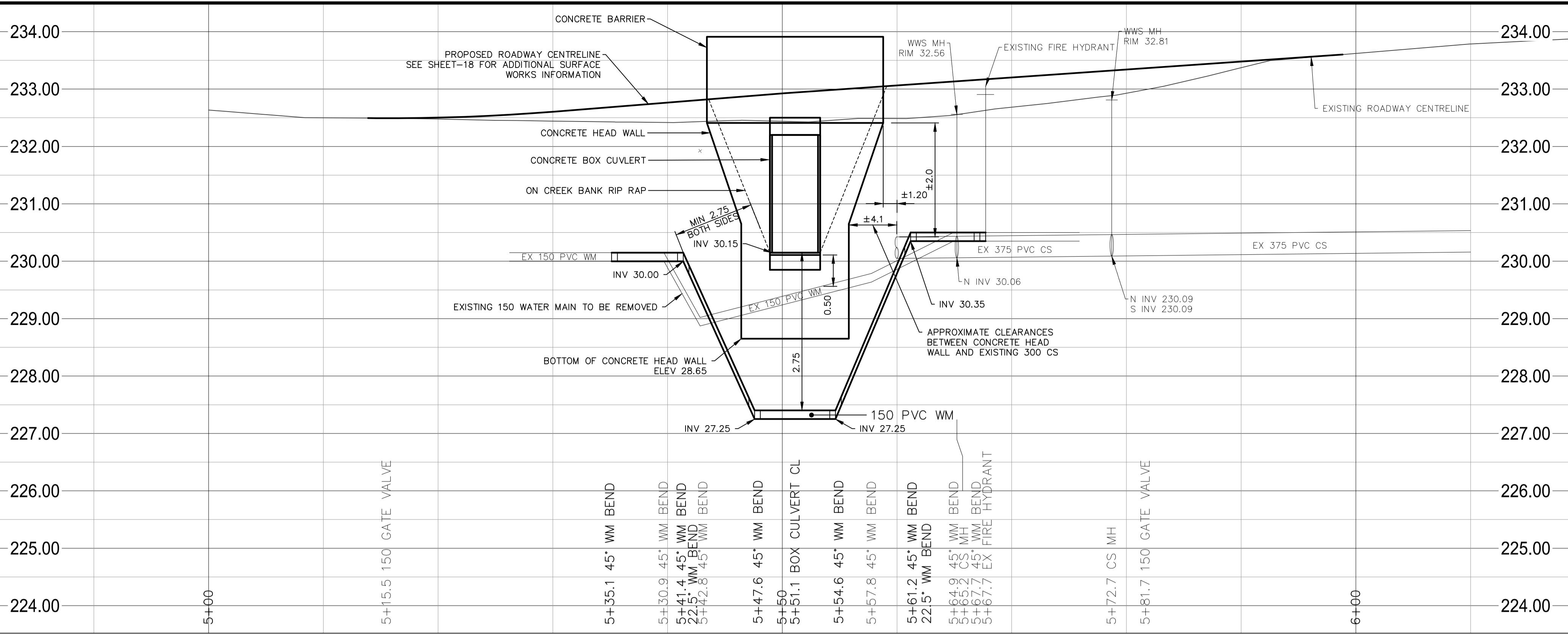
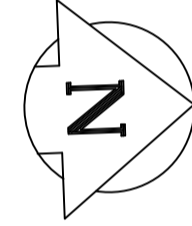
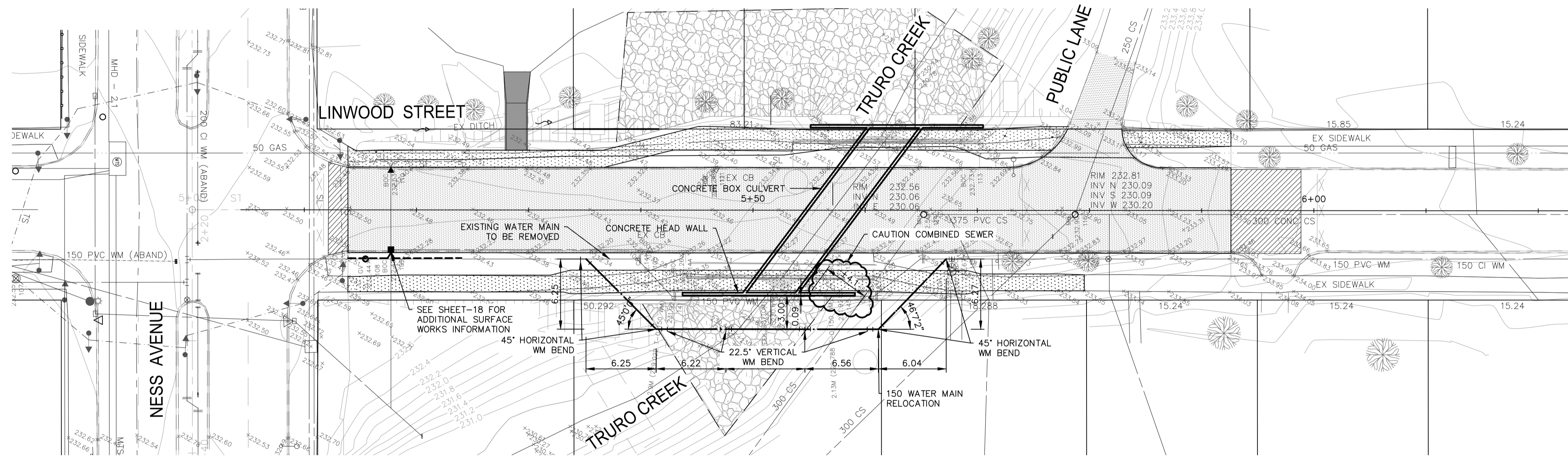


AT SIZE (594 mm x 841 mm)



- GENERAL NOTES**
1. ALL WORK IN ACCORDANCE WITH CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
  2. ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
  3. THE CONTRACTOR IS ADVISED THAT WORK BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.
  4. ADD 200.00m TO OBTAIN ACTUAL GEODETIC ELEVATIONS.
  5. CONTRACTOR TO VERIFY DEPTH OF UTILITIES PRIOR TO CONSTRUCTION. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OF THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTING AND EXACT LOCATIONS OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
  6. MAINTAIN ACCESS TO ALL ESTABLISHMENTS AT ALL TIMES.
  7. RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION, OR AS SPECIFIED ON THE DRAWINGS.
  8. EXISTING DRAINAGE TO BE MAINTAINED AT ALL TIMES.
- WATER MAIN**
1. WATER MAIN SHALL BE POLYVINYL CHLORIDE (P.V.C.) CLASS 150 PIPE (DR18) MANUFACTURED TO AWWA C-900-89 WITH GASKET BELL END c/w #14 AWG COPPER TRACER WIRE.
  2. ALL WATER MAIN SHALL BE INSTALLED TO A MINIMUM DEPTH OF COVER OF 2.75 METRES.
  3. ALL WATER MAIN BEDDING SHALL BE CLASS "2" GRANULAR BEDDING SHALL NOT BE LESS THAN 150mm BELOW THE PIPE AND 300mm ABOVE.
  4. THRUST BLOCKS MUST BE INSTALLED ON ALL WATER MAIN BENDS AND TEES.
  5. WATER MAINS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES IN ACCORDANCE WITH LOCAL PROVINCIAL GUIDELINES AND THE APPLICABLE BUILDING AND PLUMBING CODE.
  6. ALL WATER MAINS SHALL BE BACTERIA LOGICALLY TESTED IN ACCORDANCE WITH CITY OF WINNIPEG AND PROVINCIAL GUIDELINES. ALL CHLORINATED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS PRIOR TO DISCHARGE. ALL DISCHARGED WATER MUST BE CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. THE LOCAL MUNICIPALITY MAY HAVE SPECIFIC REQUIREMENTS TO BE COMPLIED WITH. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MUNICIPAL AND/ OR PROVINCIAL REQUIREMENTS ARE FOLLOWED.



NOTE:  
 These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

---	WATER MAIN	---	HYDRO POLE & LIGHT STANDARD		
---	LAND DRAINAGE SEWER	---	LIGHT STANDARD OR TRAFFIC SIGNAL		
---	WASTE WATER SEWER	---	HYDRO POLE		
---	HYDRO	---			
---	M.T.S.	---			
---	GAS	---	CURB RAMP	---	
---	SIGNALS	---	DETECTABLE WARNING SURFACE TILE	---	
○	MANHOLE	■	EDGE OF SIDEWALK	---	
△	CATCH BASIN	▽	FENCE	---	
△	CURB INLET	△ □ ○ ◇	PROPERTY LINE	---	
∩	UTILITIES ADJUSTED	---	EDGE OF ASPHALT	---	
◇	PLUG	---	EDGE OF CONCRETE	---	
⊕	HYDRANT	---	MODIFIED BARRIER CURB	---	
⊗	VALVE	---	BARRIER CURB	---	
⊕	CURB STOP	---	BARRIER CURB AND GUTTER	---	
31.00	GROUND GRADE	---	MODIFIED BARRIER CURB AND GUTTER	---	
---	PAVEMENT GRADE	---	CONCRETE SIDEWALK/MEDIAN	---	
---	ANCHOR	---	CONCRETE PAVEMENT	---	
#111	CIVIC ADDRESS	---	ASPHALT OVERLAY	---	
---	IRON BAR	---	ASPHALT MILLING	---	
---	EXISTING LEGEND-PLAN	---	EXISTING LEGEND-PROFILE	---	
---	PROPOSED	---	PROPOSED	---	



**LOCATIONS APPROVED UNDERGROUND STRUCTURES**

G.B.M. = TOP NUT OF FIRST HYDRANT SOUTH OF INTERSECTION BETWEEN NESS AVENUE AND LINWOOD STREET  
 ELEV. = 233.659

SIGNED BY:	DATE:
SUPV U/G STRUCTURES	

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING

0	ISSUED FOR TENDER	17.11.23	JL
No.	REVISIONS	DATE	BY

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DESIGNED BY	BJ	CHECKED BY	MW
DRAWN BY	VA	APPROVED BY	JL
HOR. SCALE	1:250	RELEASED FOR CONSTRUCTION	
VERTICAL	1:50		



METRIC  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

**TRURO CREEK CULVERT REPLACEMENT AT LINWOOD STREET**

WATER MAIN RENEWAL

CITY DRAWING NUMBER	C321-17-19
BID OPPORTUNITY NUMBER	1014-2017
SHEET OF	19 19
REV	0

CONSULTANT PROJECT No. 17M-00806-00

Plotfile: November 24, 2017 at 10:12:43 AM | Last saved by: eblach | Layout: 19 Water Main Renewal  
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