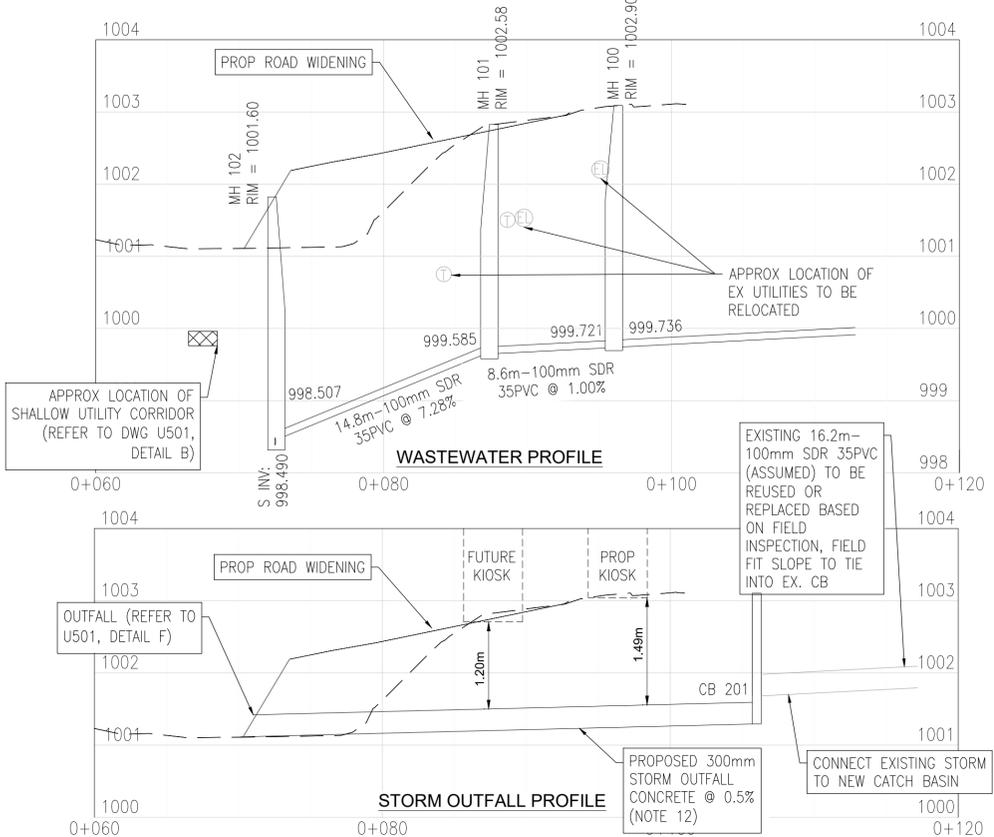
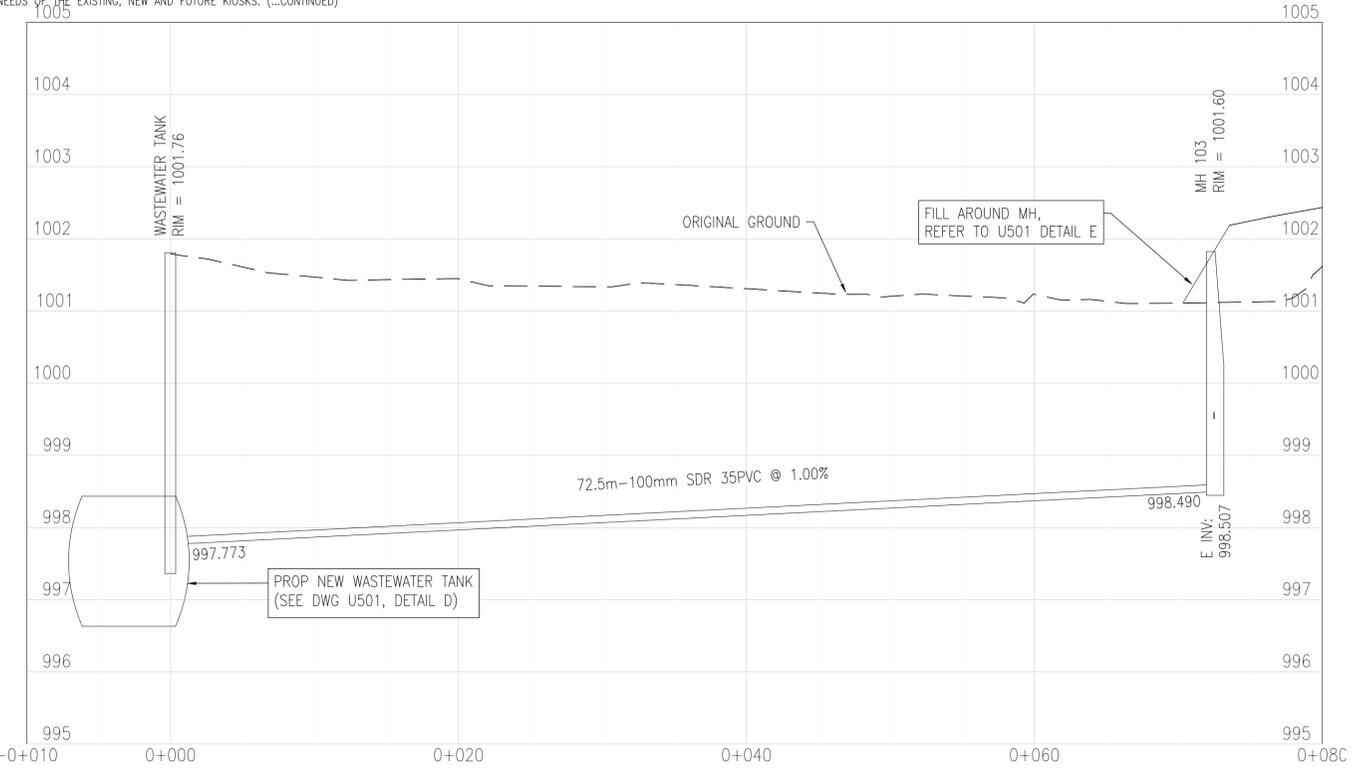


- NOTES:
- SHALLOW UTILITIES TO BE RELOCATED TO PROPOSED UTILITY CORRIDOR. COORDINATION OF UTILITY RELOCATION TO BE DONE BY CONTRACTOR.
  - NEW WELL TO BE COMPLETED BY A CERTIFIED WATER WELL DRILLER, REGISTERED IN THE PROVINCE OF ALBERTA. CONTRACTOR/DRILLER TO:
    - DRILL AND COMPLETE THE WELL, IN ACCORDANCE WITH ALBERTA WATER ACT, THE WATER REGULATIONS AND RELATED ALBERTA ENVIRONMENT AND PARKS STANDARDS AND GUIDELINES, MIN. WELL DIMENSION IS NPS 100mm DIAMETER.
    - UNDERTAKE PUMP TEST AND DETERMINE THE NEW WATER WELLS SUITABILITY TO SUPPLY WATER FOR THIS SITE, AS APPROVED BY THE DEPARTMENTS REPRESENTATIVE (INCLUDING CONFIRMATION OF THE WELL BEING A HIGH QUALITY GROUND WATER SOURCE OR GROUNDWATER UNDER THE DIRECT INFLUENCE OF SURFACE WATER). PRODUCE A REPORT (STAMPED AND SEALED BY A QUALIFIED PROFESSIONAL) OF THE WELL FINDINGS, REGISTER THE NEW WELL WITH THE APPLICABLE ALBERTA ENVIRONMENT AND PARKS (AEP) DEPARTMENT.
    - PROPOSE NEW WATER WELL PUMP AND CONTROL SYSTEM (SUBJECT TO APPROVED SHOP DRAWINGS), SUITABLE TO INTERFACE WITH THE NEW WATER TREATMENT SYSTEM (REFER TO MECHANICAL DRAWINGS). MINIMUM ACCEPTABLE PRODUCT IS THE GROUNDFOG SOE CONSTANT WATER PRESSURE SYSTEM (PUMP, CONTROL SYSTEM, PRESSURE TANK), OR APPROVED EQUAL.
    - INSTALL APPROVED WATER WELL PUMP SYSTEM (AS PER MANUFACTURERS REQUIREMENTS), COMPLETE WITH PITLESS ADAPTOR AND ALL ASSOCIATED FITTINGS AND APPURTENANCES; MAKING ALL PIPING CONNECTIONS.
    - INSTALL SUITABLE LOCKABLE PUMP DISCONNECT SWITCH IN VICINITY OF THE WELL (WEATHER PROOF/NEMA4) AND MAKING ALL ELECTRICAL CONNECTIONS.
    - ENSURE THE WELL SYSTEM IS FULLY OPERATIONAL AND SUITABLE TO MEET THE NEEDS OF THE EXISTING, NEW AND FUTURE KIOSKS. (...CONTINUED)

- NOTES: (CONTINUED)
- PEX WATER PIPE TO BE BLUE 904 SDR 9 (CIC) BY IPEX OR APPROVED EQUAL TO BE INSTALLED COMPLETE WITH TRACER WIRE SYSTEM.
  - CONDUIT TO BE DB2 PVC ELECTRICAL CONDUIT AS SUPPLIED BY IPEX OR APPROVED EQUAL.
  - WASTEWATER TANK TO BE FIBERGLASS (FRP), AS SUPPLIED BY ZCL OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL, PRIOR TO CONSTRUCTION.
  - WASTEWATER GRAVITY PIPE TO BE SDR 35 PVC AS SUPPLIED BY IPEX OR APPROVED EQUAL AND INSTALL AT MINIMUM SLOPE OF 1%.
  - CSP PIPE TO BE "STEECOR" PIPE AS SUPPLIED BY CANADA CULVERT OR APPROVED EQUAL.
  - CATCH BASIN TO BE TO BE PRECAST UNITS AS SUPPLIED BY LAFARGE CANADA OR APPROVED EQUAL. (INCLUDING BARREL, RINGS, FRAME, AND COVER AS APPROVED FOR USE IN THE CITY OF EDMONTON)
  - MANHOLE TO BE PRECAST UNITS AS SUPPLIED BY LAFARGE CANADA OR APPROVED EQUAL. (INCLUDING FRAME AND COVER, AS APPROVED FOR USE IN THE CITY OF EDMONTON)
  - REFER TO COMMENTS / NOTES IN SPECIFICATIONS (UTILITY SECTION)
  - FIELD CONFIRMATION OF WEAVING TILE DEPTH AND SUITABILITY TO CONNECT TO NEW STORM OUTFALL OR NEW DEDICATED 150mm SDR35 STORM OUTFALL (Ø 1%) TO ACHIEVE 1.9m DEPTH (TO CROWN) UNDER NEW AND PROPOSED FUTURE KIOSK. NEW OUTFALL C/W CONCRETE FLARED AND RIP-RIP PROTECTION TO ALBERTA TRANSPORTATION STANDARDS. CONTRACTOR TO ALLOW FOR EITHER/OR.
  - CONCRETE GRAVITY PIPE TO BE REINFORCED CONCRETE PIPE TYPE V (ASTM C76/CSA A257.2 1400) c/w TYPE 1 INSTALLATION (OR AS DIRECTED BY THE DEPT. REPRESENTATIVE) PIPE TO BE AS SUPPLIED BY LAFARGE (OR APPROVED EQUAL)



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**LEGEND:**  
 PROPOSED WASTEWATER LINE  
 PROPOSED WATER SUPPLY LINE

Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
1	2018.02.14	SHALLOW UTILITIES ALIGNMENT	AI	ADT	NJ
0	2017.12.08	ISSUED FOR TENDER	AI	ADT	SB

A	detail number	A
B	numero de detail	B
C	source drawing no. de dessin no.	C
	detail on drawing no. detail sur dessin no.	

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client	Parks Canada Agency Western and Northern Region L'Agence Parcs Canada Ouest et Nord du Canada
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Consultant's Name  
Nom de l'expert-conseil



Project Title  
Titre du projet  
**HIGHWAY 16  
PARK EAST GATE IMPROVEMENTS**

JASPER NATIONAL PARK AB

Drawing Title  
Titre du dessin  
**PROPOSED  
UNDERGROUND DEEP UTILITIES**

Surveyed by / Arpenté par <b>MCSL</b>	Drawn by / Dessiné par <b>AI</b>	Date <b>2017.12.08</b>
Designed by / Conçu par <b>ADT</b>	Reviewed by / Révisé par <b>SB</b>	Scale / Echelle <b>1:250</b>

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client  
Approved by / Approuvé par

Project No. / No. du projet <b>201605</b>	Asset No. / No. du bien	Sheet No. / No. de la feuille <b>U403</b>
Drawing Reference No. / No. de référence du dessin <b>2511-00763-00</b>		

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