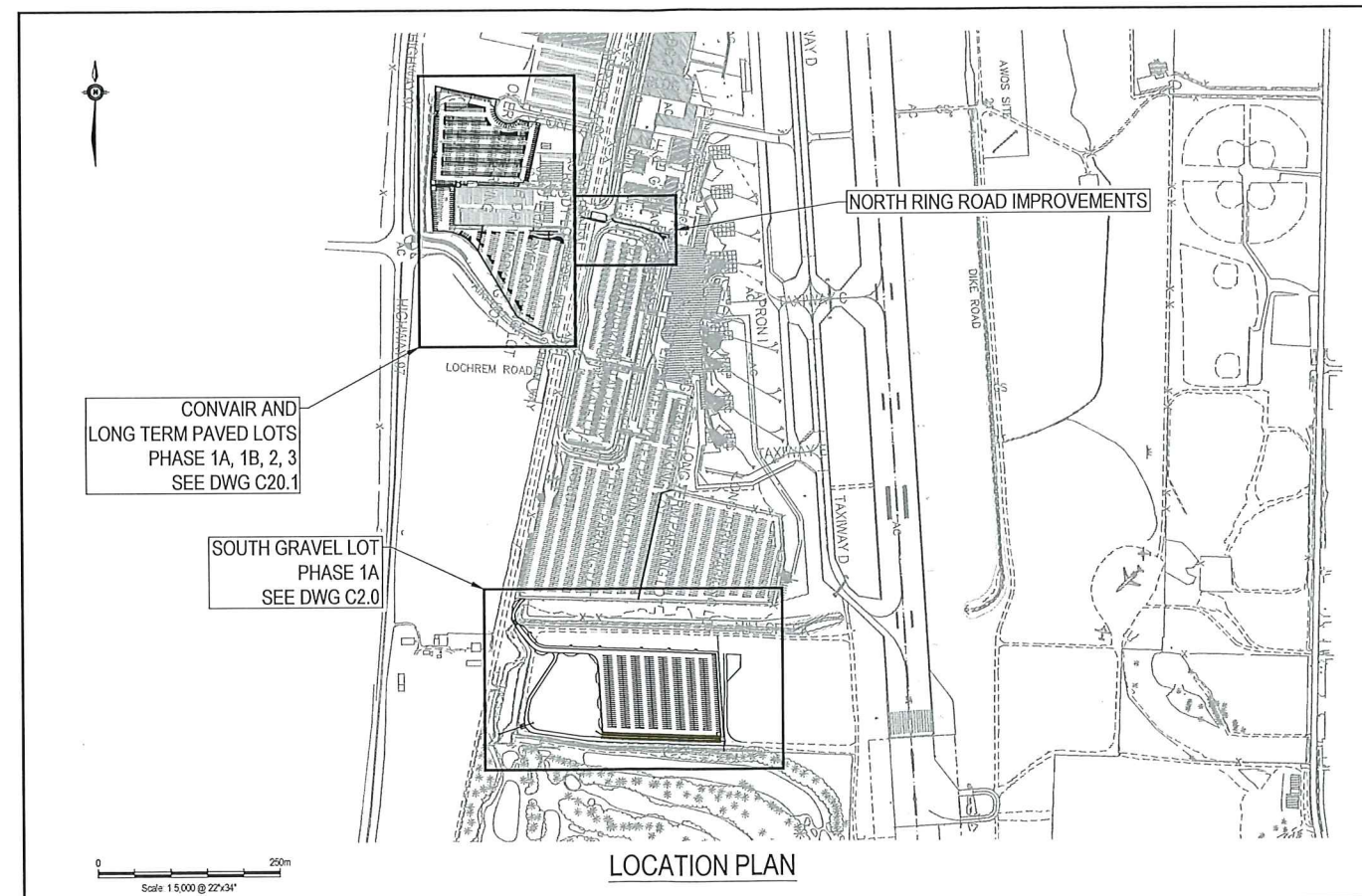




Kelowna International Airport

KELOWNA INTERNATIONAL AIRPORT CONSTRUCTION OF PARKING LOTS



DRAWING LIST

SOUTH GRAVEL PARKING LOT

CIVIL:	
C1.0	SITE PLAN AND SURVEY CONTROL
C2.0	OPERATIONAL PLAN
C3.0	ACCESS ROAD - SOUTH PLAN AND PROFILE
C4.0	PARKING LOT GRADING PLAN
C5.0	SITE SECTIONS
C6.0	NEW SWALE PLAN AND PROFILE
C7.0	FENCING AND SIGNAGE LOCATION PLAN
C8.0	DETAILS SHEET 1 OF 4
C9.0	DETAILS SHEET 2 OF 4
C10.0	DETAILS SHEET 3 OF 4
C11.0	DETAILS SHEET 4 OF 4

CONVAIR AND LONG TERM B PARKING LOT EXPANSION

CIVIL:	
C20.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION SITE PLAN
C20.1	CONVAIR AND LONG TERM B PARKING LOT CONSTRUCTION OPERATIONS PLAN AND SURVEY CONTROL
C21.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION DEMOLITION PLAN
C22.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION OVERALL GEOMETRY PLAN
C22.1	CONVAIR AND LONG TERM B PARKING LOT EXPANSION PLANS
C22.2	LONG TERM B PARKING LOT ENTRANCE PLAN
C22.3	LONG TERM B PARKING LOT EXPANSION DATA
C22.4	CONVAIR PARKING LOT DATA
C23.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION GRADING PLAN
C23.1	CONVAIR PARKING LOT SPOT ELEVATION PLAN
C23.2	LONG TERM B PARKING LOT EXPANSION SPOT ELEVATION PLAN
C24.0	CONVAIR PARKING LOT SECTIONS SHEET 1 OF 2
C24.1	CONVAIR PARKING LOT SECTIONS SHEET 2 OF 2
C24.2	LONG TERM B PARKING LOT EXPANSION SECTIONS
C25.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION DRAINAGE PLAN
C25.1	CONVAIR AND LONG TERM B PARKING LOT EXPANSION DRAINAGE PROFILE
C26.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION FENCING AND SIGNS
C27.0	CONVAIR AND LONG TERM B PARKING LOT EXPANSION OVERALL PAINT MARKING PLAN
C27.1	CONVAIR AND LONG TERM B PARKING LOT EXPANSION PAINT MARKING PLAN
C27.2	LONG TERM B PARKING LOT EXPANSION PAINT MARKING PLAN
C27.3	CONVAIR AND LONG TERM B PARKING LOT EXPANSION PAINT MARKING DATA
C27.4	CONVAIR AND LONG TERM B PARKING LOT EXPANSION PAINT MARKING DATA

NORTH RING ROAD

CIVIL:	
C30.0	NORTH RING ROAD IMPROVEMENTS SITE PLAN
C31.0	NORTH RING ROAD IMPROVEMENTS DEMOLITION AND OPERATIONAL PLAN
C32.0	NORTH RING ROAD IMPROVEMENTS GRADING PLAN
C33.0	NORTH RING ROAD IMPROVEMENTS DETAILS

ELECTRICAL:

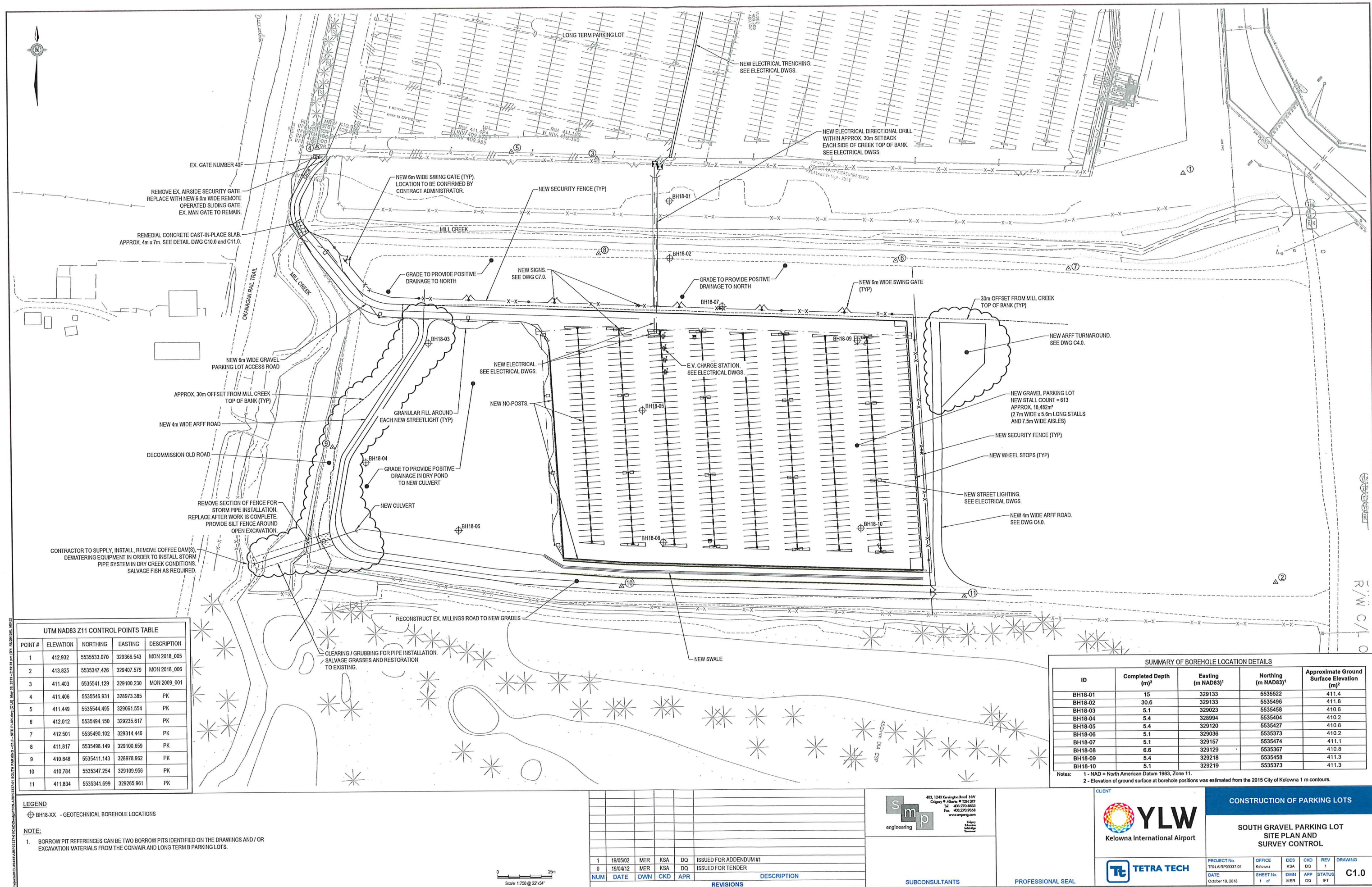
E0.0	KEY PLAN, LEGEND OF SYMBOLS
E0.0	DRAWING LIST & LUMINAIRE SCHEDULE
E1.1	SOUTH LOT (NORTH) ELECTRICAL PLAN
E1.2	SOUTH LOT (SOUTH) ELECTRICAL PLAN
E1.3	CONVAIR / NORTH LONG TERM LOT ELECTRICAL PLAN
E1.4	NORTH SERVICE ROAD ELECTRICAL PLAN
E2.1	AIR TERMINAL SINGLE LINE DIAGRAM
E3.0	ELECTRICAL DETAILS
E3.1	ELECTRICAL DETAILS
E4.1	ELECTRICAL SCHEDULES

TT PROJECT NUMBER: TRN.AIRP03337

ISSUED DATE: 19/05/02

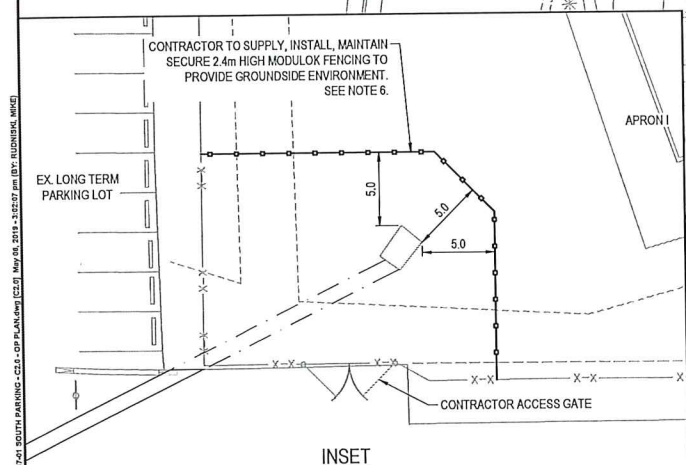
ISSUED FOR TENDER - REV. 01







- CONTRACTOR'S GENERAL NOTES:**
1. ACCESS TO THE PROJECT SITE IS THROUGH THE LONG TERM PUBLIC PARKING LOT. CONTRACTOR TO TAKE NECESSARY MEASURES TO MINIMIZE TRAFFIC IMPACT TO THE PUBLIC AND PROVIDE TRAFFIC SIGNAGE AS REQUIRED.
 2. OWNER TO PROVIDE KEY CARD ACCESS TO THE CONTRACTOR FOR ACCESS THROUGH THE LONG TERM PARKING LOT TICKET GATES.
 3. ACCESS ROUTE TO BE KEPT IN A REASONABLE CLEAN CONDITION. ANY DEBRIS OR MATERIAL SPILLED ON PAVED SURFACES SHALL BE CLEANED BY THE CONTRACTOR ON THE SAME DAY.
 4. GRAVEL ACCESS ROAD / TURN-AROUND TO BE CONSTRUCTED BY CONTRACTOR AS REQUIRED BETWEEN EXISTING PAVED LONG TERM PARKING LOT AND PROJECT SITE. NEW ROAD SHALL REMAIN OUTSIDE 30m FROM MILL CREEK TOP OF BANK. CONTRACTOR TO SUPPLY / INSTALL TEMPORARY STOP SIGN AT GATE 40F FOR TRAFFIC EXITING THE PROJECT SITE.
 5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING GRAVEL ACCESS ROAD TO THE PROJECT SITE.
 6. CONTRACTOR TO SCHEDULE YLW COMMISSIONAIRE TO INSTALL / REMOVE TEMPORARY SECURITY FENCING AND UNLOCK / LOCK ACCESS GATE.
- TOPSOIL STOCKPILE SITE RESTRICTIONS:**
1. ALL UNSUITABLE SOIL TO BE HAULED AND DISPOSED OFF-SITE. ONLY CLEAN TOPSOIL TO BE HAULED TO THE TOPSOIL STOCKPILE SITE.
 2. CONTRACTOR TO PREPARE TOPSOIL STOCKPILE SITE PRIOR TO ANY STOCKPILING ACTIVITIES.
 3. CONTRACTOR TO EMPLOY DUST AND EROSION CONTROL MEASURES AS PER THE SPECIFICATIONS AND OWNER'S SATISFACTION.
 4. ACCESS ROUTES TO BE MAINTAINED BY THE CONTRACTOR AND SWEEPER TO BE EMPLOYED TO KEEP ROUTES FREE OF DEBRIS.
 5. CONTRACTOR TO SPREAD AND LEVEL ALL EXCAVATED TOPSOIL BROUGHT TO THE TOPSOIL STOCKPILE SITE. MAXIMUM HEIGHT OF STOCKPILE ALLOWED AT DUMP SITE IS 4.0m.
- NOTE:**
REFER TO LONG TERM PAVED LOTS "OPERATIONAL PLAN" FOR BORROW PIT LOCATION AND ACCESS.



- LEGEND**
- SILT FENCE
 - MODULK FENCE

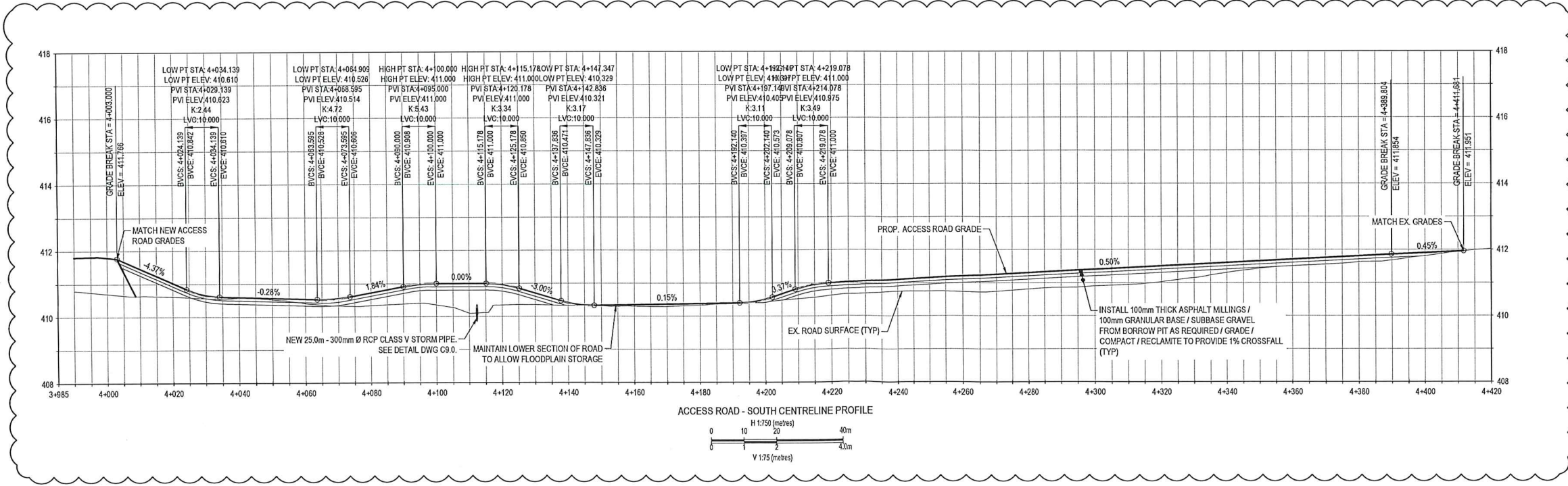
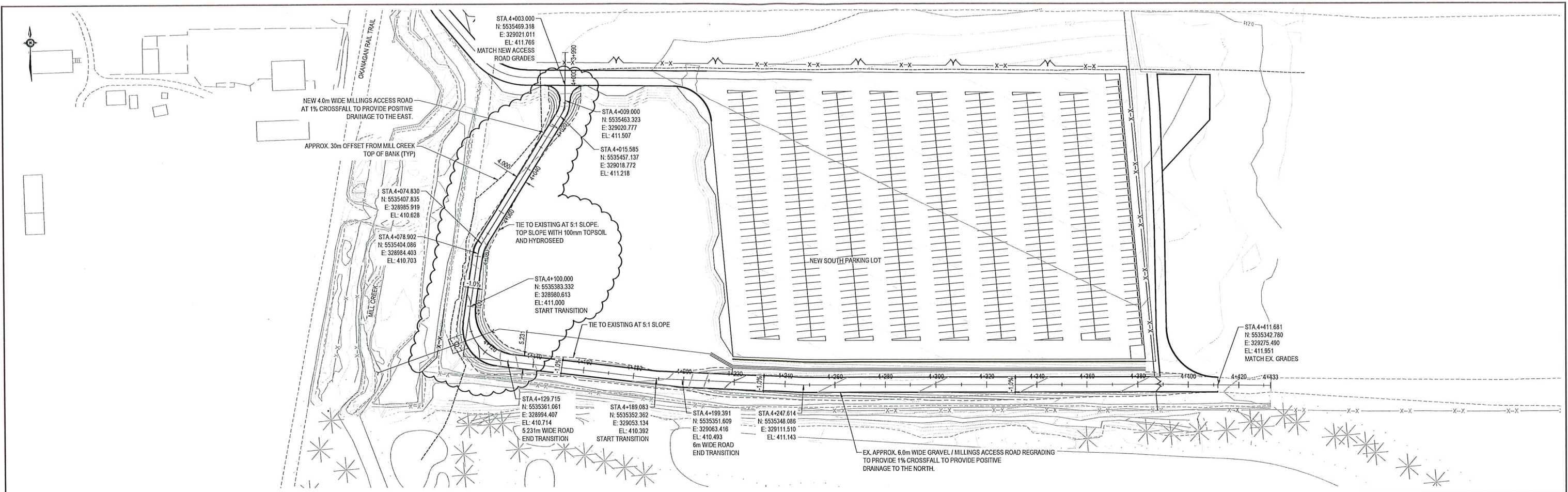
NUM	DATE	DWN	CKD	APR	DESCRIPTION
1	19/05/02	MER	KSA	DQ	ISSUED FOR ADDENDUM #1
0	19/04/12	MER	KSA	DQ	ISSUED FOR TENDER
REVISIONS					



CONSTRUCTION OF PARKING LOTS

SOUTH GRAVEL PARKING LOT OPERATIONAL PLAN

PROJECT No.	OFFICE	DES	CKD	REV	DRAWING
TRN/AIRP03337-01	Kelowna	KSA	DQ	1	C2.0
DATE	SHEET No.	DWN	APP	STATUS	
October 10, 2018	2 of	MER	DQ	IFT	



LEGEND

NUM	DATE	DWN	CKD	APR	DESCRIPTION
1	19/05/02	MER	KSA	DQ	ISSUED FOR ADDENDUM #1
0	19/04/12	MER	KSA	DQ	ISSUED FOR TENDER

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Fax: 403.270.9358
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Kelowna International Airport

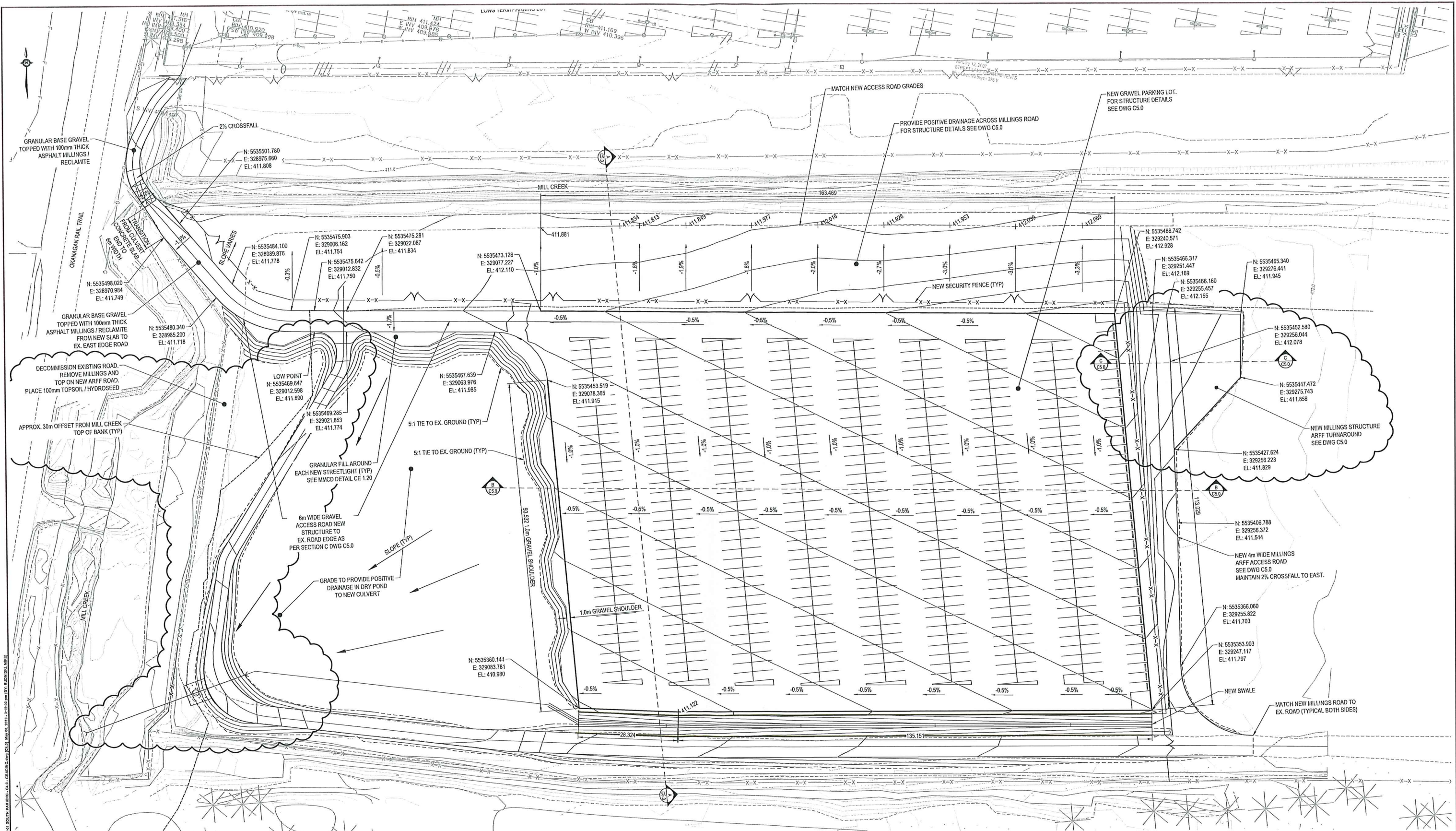
TETRA TECH

CONSTRUCTION OF PARKING LOTS

**SOUTH GRAVEL PARKING LOT
ACCESS ROAD - SOUTH
PLAN AND PROFILE**

PROJECT No.	OFFICE	DES	CKD	REV	DRAWING
TRN AIRP03337-01	Kelowna	KSA	DQ	1	
DATE:	SHEET No.	DWN	APP	STATUS	
October 10, 2018	3 of	MER	DQ	IFT	

C3.0



LEGEND

0 25m
Scale 1:500 @ 22"x34"

NUM	DATE	DWN	CKD	APR	DESCRIPTION
1	19/05/02	MER	KSA	DQ	ISSUED FOR ADDENDUM #1
0	19/04/12	MER	KSA	DQ	ISSUED FOR TENDER

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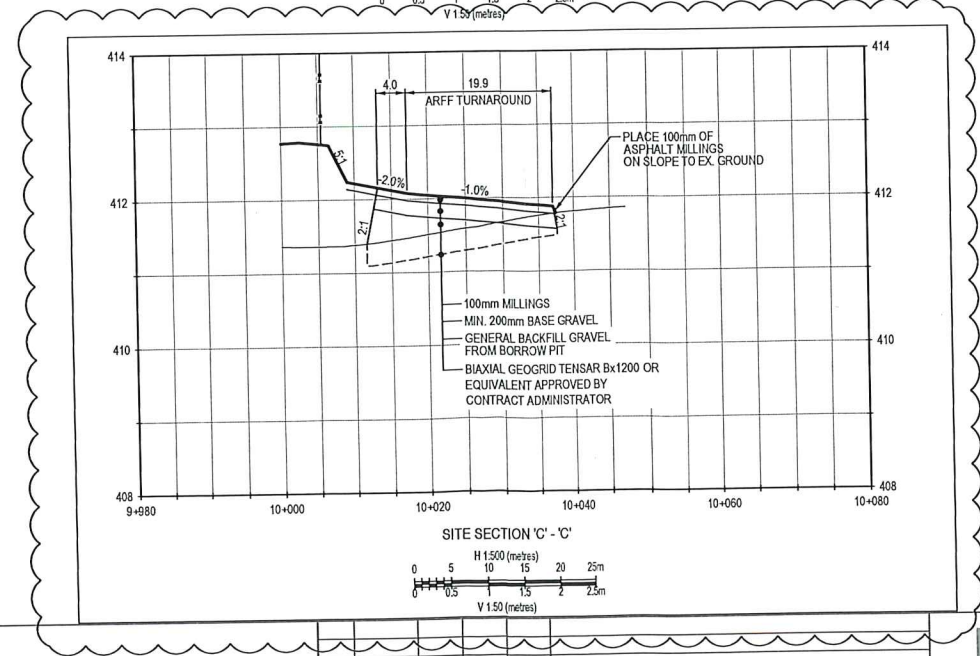
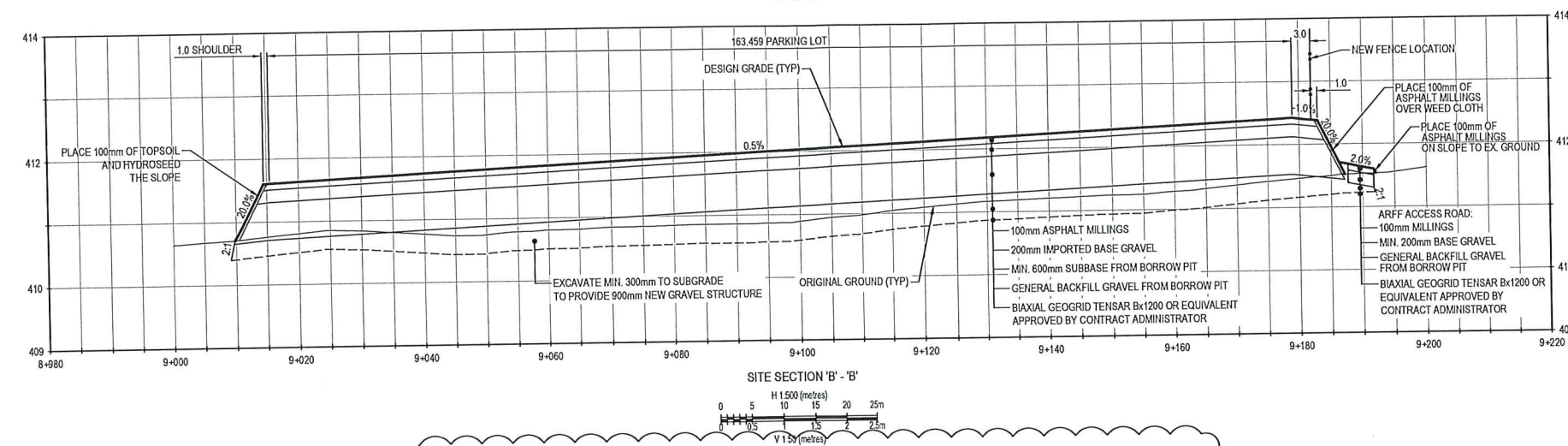
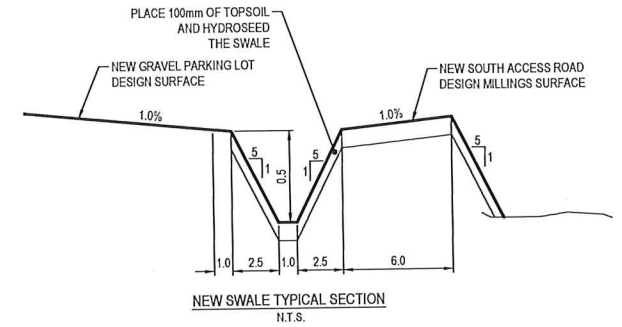
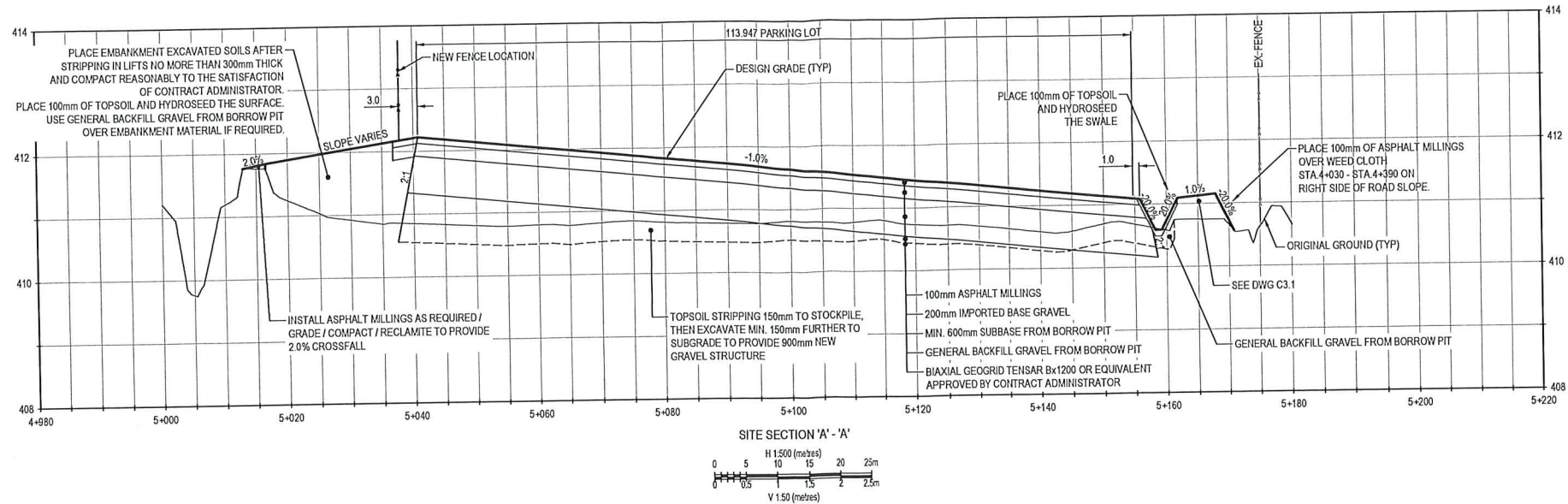
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Kelowna International Airport

TETRA TECH

CONSTRUCTION OF PARKING LOTS

**SOUTH GRAVEL PARKING LOT
PARKING LOT
GRADING PLAN**

PROJECT No. TRN AIRP03337-01	OFFICE Kelowna	DES KSA	CKD DQ	REV 1	DRAWING C4.0
DATE October 10, 2018	SHEET No. 4 of 4	DWN MER	APP DQ	STATUS IFT	



LEGEND



NUM	DATE	DWN	CKD	APR	DESCRIPTION
1	19/05/02	MER	KSA	DQ	ISSUED FOR ADDENDUM #1
0	19/04/12	MER	KSA	DQ	ISSUED FOR TENDER

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SUBCONSULTANTS

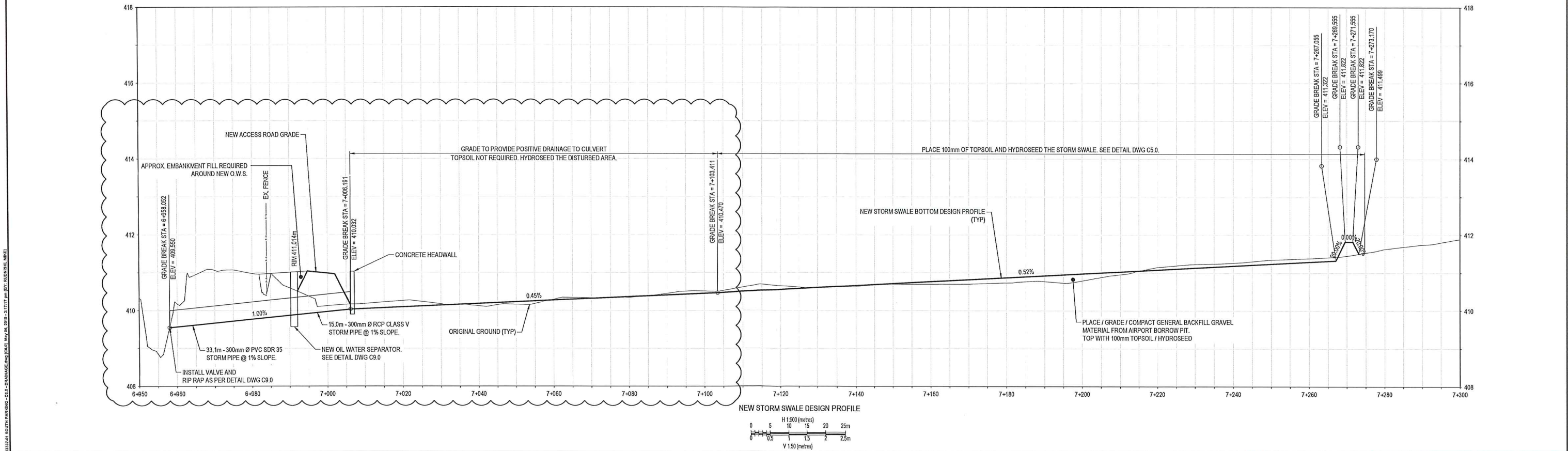
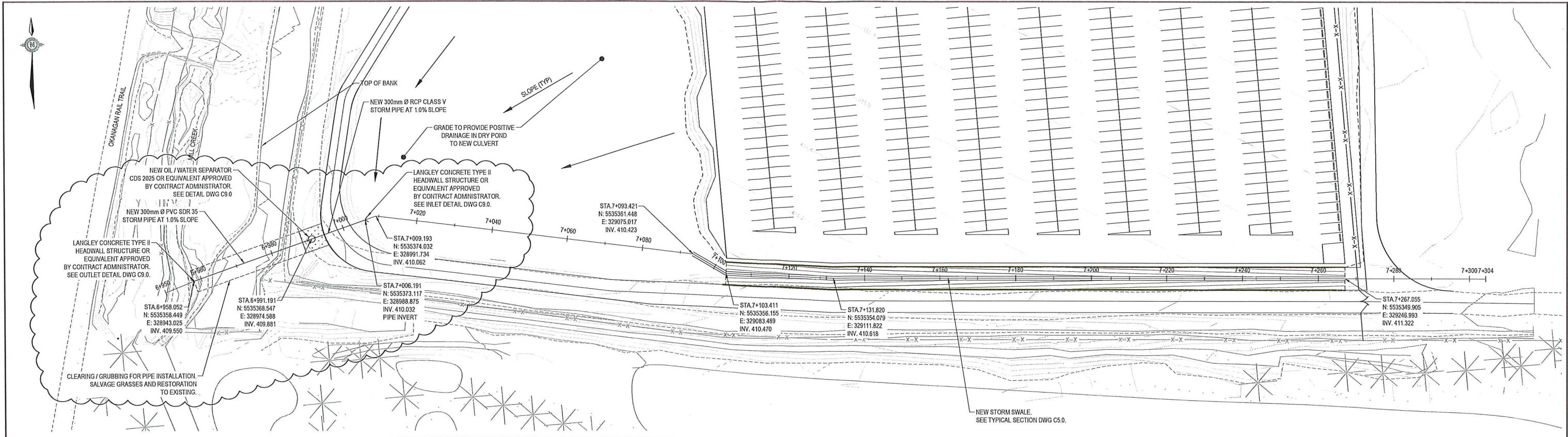
PROFESSIONAL SEAL



CONSTRUCTION OF PARKING LOTS

SOUTH GRAVEL PARKING LOT
SITE SECTIONS

PROJECT No.	OFFICE	DES	CKD	REV	DRAWING
TRN AIRP03337-01	Kelowna	KSA	DQ	1	C5.0
DATE	SHEET No.	DWN	APP	STATUS	
October 10, 2018	5 of	MER	DQ	IFT	



LEGEND

Scale 1:2,500 @ 22x34'

NUM	DATE	DWN	CKD	APR	REVISIONS	DESCRIPTION
1	19/05/02	MER	KSA	DQ	ISSUED FOR ADDENDUM #1	
0	19/04/12	MER	KSA	DQ	ISSUED FOR TENDER	

SUBCONSULTANTS

PROFESSIONAL SEAL

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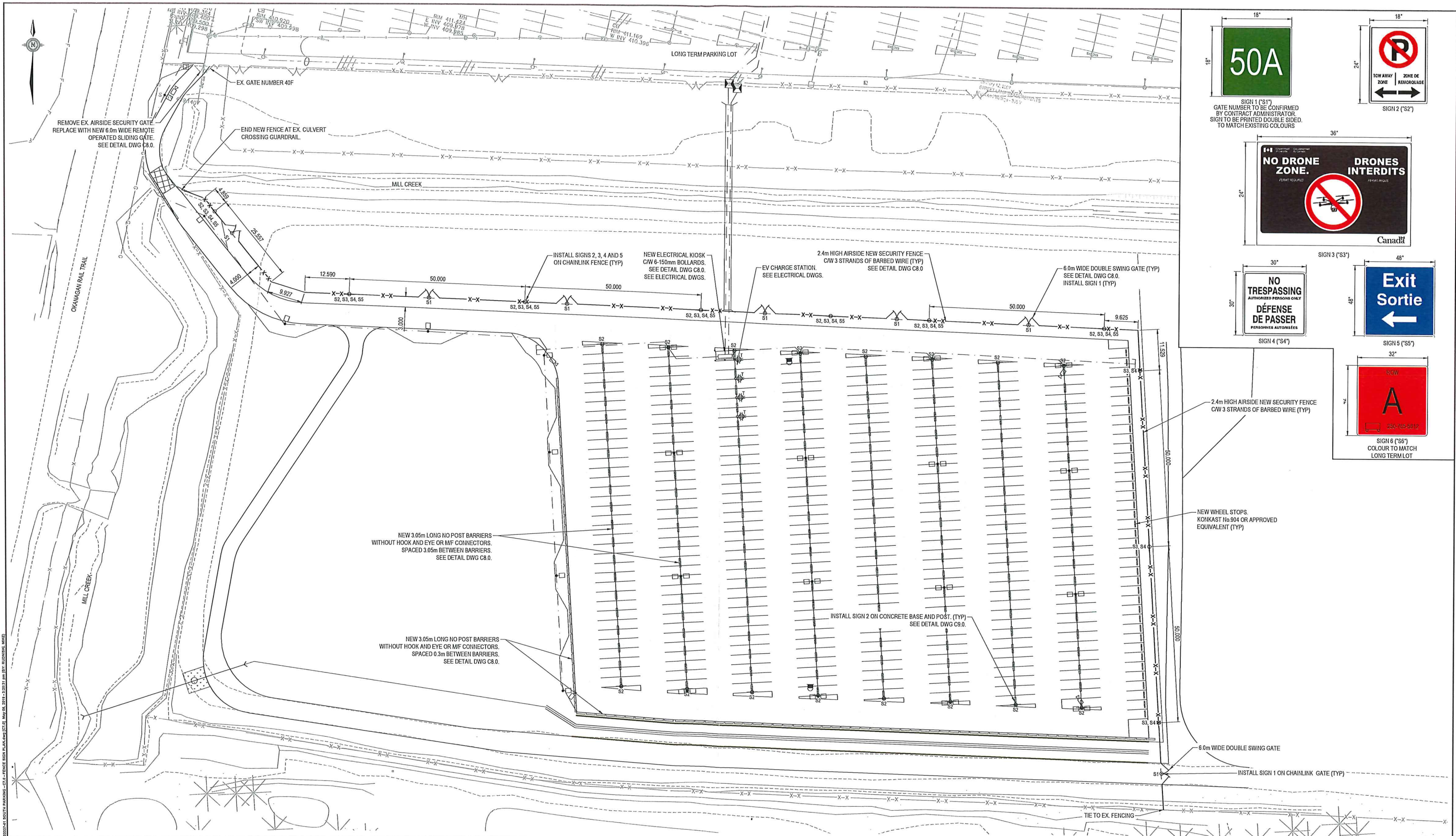
TETRA TECH

CONSTRUCTION OF PARKING LOTS

**SOUTH GRAVEL PARKING LOT
NEW SWALE PLAN AND PROFILE**

PROJECT No.	OFFICE	DES	CKD	REV	DRAWING
TRM JRP03337-01	Kelowna	KSA	DQ	1	C6.0

DATE	SHEET No.	DWN	APP	STATUS
October 10, 2018	6 of 6	MER	DQ	IFT



SIGN 1 ("S1")
GATE NUMBER TO BE CONFIRMED
BY CONTRACT ADMINISTRATOR.
SIGN TO BE PRINTED DOUBLE SIDED.
TO MATCH EXISTING COLOURS.

SIGN 2 ("S2")

SIGN 3 ("S3")

SIGN 4 ("S4")

SIGN 5 ("S5")

SIGN 6 ("S6")
COLOUR TO MATCH
LONG TERM LOT

LEGEND

0 25m
Scale 1:500 @ 22"x34"

NUM	DATE	DWN	CKD	APR	REVISIONS	DESCRIPTION
1	19/05/02	MER	KSA	DQ	ISSUED FOR ADDENDUM #1	
0	19/04/12	MER	KSA	DQ	ISSUED FOR TENDER	

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CONSTRUCTION OF PARKING LOTS

**SOUTH GRAVEL PARKING LOT
FENCING AND SIGNAGE
LOCATION PLAN**

PROJECT No. TRN AIRP03337-01	OFFICE Kelowna	DES KSA	CKD DQ	REV 1	DRAWING C7.0
DATE October 10, 2018	SHEET No. 7 of	DWN MER	APP DQ	STATUS IPT	

CITY OF KELOWNA

MEMORANDUM

Date: June 13, 2019
File No.: Z19-0081
To: Urban Planning (AC)
From: Development Engineering Manager (JK)
Subject: 5269 HWY 97 N A1 to CD12

Development Engineering Department have the following comments and requirements associated with this application. The road and utility upgrading requirements outlined in this report will be a requirement of this development. The Development Engineering Technologist for this project is Aaron Sangster.

1. General

- a. Where there is a possibility of a high water table or surcharging of storm drains during major storm events, non-basement buildings may be required. This must be determined by the engineer and detailed on the Lot Grading Plan required in the drainage section.
- b. Provide easements as may be required.
- c. These Development Engineering comments and requirements are subject to review and or revision for approval by the Ministry of Transportation (MOTI) Infrastructure.

2. Drainage

- a. Provide an adequately sized drainage system. The Subdivision, Development and Servicing Bylaw requires that a lot be provided with an individual connection; however, the City Engineer may permit use of individual ground water disposal systems, where soils are suitable. For on-site disposal of drainage water, a hydrogeotechnical report will be required complete with a design for the disposal method (i.e. trench drain / rock pit). The Lot Grading Plan must show the design and location of these systems for each lot.
- b. Provide the following drawings:
 - i) A detailed Lot Grading Plan (indicate on the Lot Grading Plan any slopes that are steeper than 30% and areas that have greater than 1.0 m of fill);
 - ii) A detailed Stormwater Management Plan for this subdivision; and,
 - iii) An Erosion and Sediment Control Plan.

ATTACHMENT		A
This forms part of application		
# Z19-0081		
Planner Initials	AC	 City of Kelowna COMMUNITY PLANNING

3. Roads

- a. Access bridge crossing Mill Creek must be raised to or above the 200 yr. flood level.

4. Road Dedication and Subdivision Requirements

- a. Grant Statutory Rights of Way if required for utility services.
- b. If any road dedication affects lands encumbered by a Utility right-of-way (such as BC Hydro Gas, etc.) please obtain the approval of the utility prior to application for final subdivision approval. Any works required by the utility as a consequence of the road dedication must be incorporated in the construction drawings submitted to the City's Development Manager

5. Power and Telecommunication Services and Street Lights

- a. All proposed distribution and service connections are to be installed underground. Existing distribution and service connections, on that portion of a road immediately adjacent to the site, are to be relocated and installed underground.
- b. Make servicing applications to the respective Power and Telecommunication utility companies. The utility companies are required to obtain the City's approval before commencing construction.
- c. Remove existing poles and utilities, where necessary. Remove aerial trespass (es).

6. Design and Construction

- a. Design, construction supervision and inspection of all off-site civil works and site servicing must be performed by a Consulting Civil Engineer and all such work is subject to the approval of the City Engineer. Drawings must conform to City standards and requirements.
- b. Engineering drawing submissions are to be in accordance with the City's "Engineering Drawing Submission Requirements" Policy. Please note the number of sets and drawings required for submissions.
- c. Quality Control and Assurance Plans must be provided in accordance with the Subdivision, Development & Servicing Bylaw No. 7900 (refer to Part 5 and Schedule 3).
- d. A "Consulting Engineering Confirmation Letter" (City document 'C') must be completed prior to submission of any designs.
- e. Before any construction related to the requirements of this subdivision application commences, design drawings prepared by a professional engineer must be submitted to the City's Development Engineering Department. The design drawings must first be "Issued for Construction" by the City Engineer. On examination of design drawings, it may be determined that rights-of-way are required for current or future needs.

ATTACHMENT		A
This forms part of application		
# Z19-0081		
Planner Initials	AC	 City of Kelowna COMMUNITY PLANNING

7. Servicing Agreements for Works and Services

- a. A Servicing Agreement is required for all works and services on City lands in accordance with the Subdivision, Development & Servicing Bylaw No. 7900. The applicant's Engineer, prior to preparation of Servicing Agreements, must provide adequate drawings and estimates for the required works. The Servicing Agreement must be in the form as described in Schedule 2 of the bylaw.
- b. Part 3, "Security for Works and Services", of the Bylaw, describes the Bonding and Insurance requirements of the Owner. The liability limit is not to be less than \$5,000,000 and the City is to be named on the insurance policy as an additional insured

8. Geotechnical Study.

- a. Provide a geotechnical report prepared by a Professional Engineer competent in the field of hydro-geotechnical engineering to address the items below: **NOTE: The City is relying on the Geotechnical Engineer's report to prevent any damage to property and/or injury to persons from occurring as a result of problems with soil slippage or soil instability related to this proposed subdivision.**
 - i. The Geotechnical report must be submitted prior to submission of Engineering drawings or application for subdivision approval.
 - ii. Area ground water characteristics, including any springs and overland surface drainage courses traversing the property. Identify any monitoring required.
 - iii. Site suitability for development.
 - iv. Site soil characteristics (i.e. fill areas, sulphate content, unsuitable soils such as organic material, etc.).
 - v. Any special requirements for construction of roads, utilities and building structures.
 - vi. Recommendations for items that should be included in a Restrictive Covenant.
 - vii. Recommendations for roof drains, perimeter drains and septic tank effluent on the site.
 - viii. Any items required in other sections of this document.
 - ix. Additional geotechnical survey may be necessary for building foundations, etc

9. Charges and Fees

- a. Development Cost Charges (DCC's) are payable
- b. Fees per the "Development Application Fees Bylaw" include:
 - i. Street/Traffic Sign Fees: at cost if required (to be determined after design).

- ii. Survey Monument, Replacement Fee: \$1,200.00 (GST exempt) – only if disturbed.
- c. Engineering and Inspection Fee: 3.5% of construction value (plus GST)

James Kay, P.Eng.
Development Engineering Manager

AS

ATTACHMENT		A
This forms part of application		
# Z19-0081		
Planner Initials	AC	 City of Kelowna <small>COMMUNITY PLANNING</small>