

Bajwa, Mehak

From: Chris Visser <chris.visser@wasteconnections.com>
Sent: October 22, 2024 8:33 AM
To: Bajwa, Mehak
Cc: Laurel Hoffarth; Derek Dreger (WSP) ; Dey, Asit; Angela Fidler-Kliewer (Trek); Scurrah, Fiona; Mackin, Amna; Cowan, Amanda; Alves, Alexandre; Payment, Brandie
Subject: Prairie Green IWMF: Search Facility Pad Construction Mob 2 Results
Attachments: LTR 21-10-2024 Prairie Green IWMF Search Facility Pad -Mob 2-PartA_0_Final_AFK 1000-043-27-signed.pdf; L240034 - PRAIRIE GREEN LANDFILL SEARCH FACILITY P-LAYOUT REV2-no comments.pdf; HDPE Butt Seam Log.pdf

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ATTENTION: ce courriel provient d'un expéditeur externe. Ne cliquez sur aucun lien et n'ouvrez pas de pièce jointe, excepté si vous connaissez l'expéditeur.

Good morning Mehak,

Please find attached the test results and construction quality assurance certification for the Mob 2 part of the Search Facility Pad construction at the Prairie Green Landfill.

If you should have any questions, please do not hesitate to contact us.

Regards,

Chris Visser, P.Eng.
Canadian Region Engineering Manager

C: 647-539-5923 | F: 905-532-7576

Waste Connections of Canada | Unit 600 | 6220 Hwy 7 | Woodbridge | ON | L4H 4G3

[Website](#) | [Linkedin](#) | [Instagram](#)





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October 21, 2024

Our File No. 1000-043-27

Derek Dreger, P.Eng., PMP, FEC
WSP Canada Inc.
1600 Buffalo Place,
Winnipeg, MB
R3T 6B8

**RE: CQA Summary Letter for
IWMF Search Facility Pad Construction – Mob 2/Part A**

This letter summarizes the Quality Assurance (QA) inspections and testing services associated with CQA Geosynthetic installing of the Search Facility Pad – Mob 1/Part A. The area constructed is about .13 Ha of a total of 2.7 HA of pad to be constructed and comprises the South, Southeast and Southwest sections of the perimeter berms.

Deployment of the HDPE liner over the sand layer subgrade consisted of panels P24 to P29, respectively. The arrangement and designation of the various panels for the HDPE liner are presented on Drawing 1 attached.

The seams were welded using a double hot wedge fusion welder. Some seams required repairs based on field test results and the reconstructed seams were made using a hand-held extrusion welding apparatus. Fusion and extrusion seams were subjected to non-destructive and destructive testing. All non-destructive testing completed on both fusion and extrusion seaming comply with project specifications. Destructive test samples of panel fusion welded seams were taken at an average of approximately one for every 146 m of fusion seam length.

A total of two fusion destructive tests (DSF designation) were conducted of the HDPE liner. One fusion destructive test failed, and the failed test was traced along the fusion seam activity log to obtain one passing destructive before and after the failed destructive. The failed sections of seam were subsequently extrusion welded and non-destructively tested with the vacuum box. All extrusion non-destructive tests completed comply with project specifications.

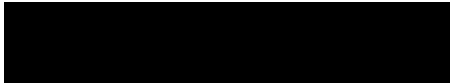


The information and findings of this report were based on the tests, measurements, and observations made by TREK during construction and are only applicable to those elements. Based on the results of the field monitoring, observations, inspections and testing, the IWMF Search Facility Pad – Mob 2 Part A was constructed in accordance with the project specifications and to current accepted industry standards.

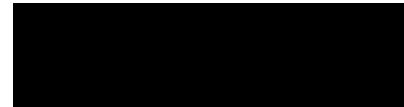
Sincerely,

TREK Geotechnical Inc.

Per:

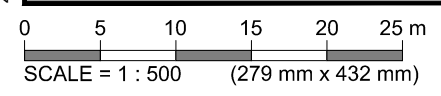
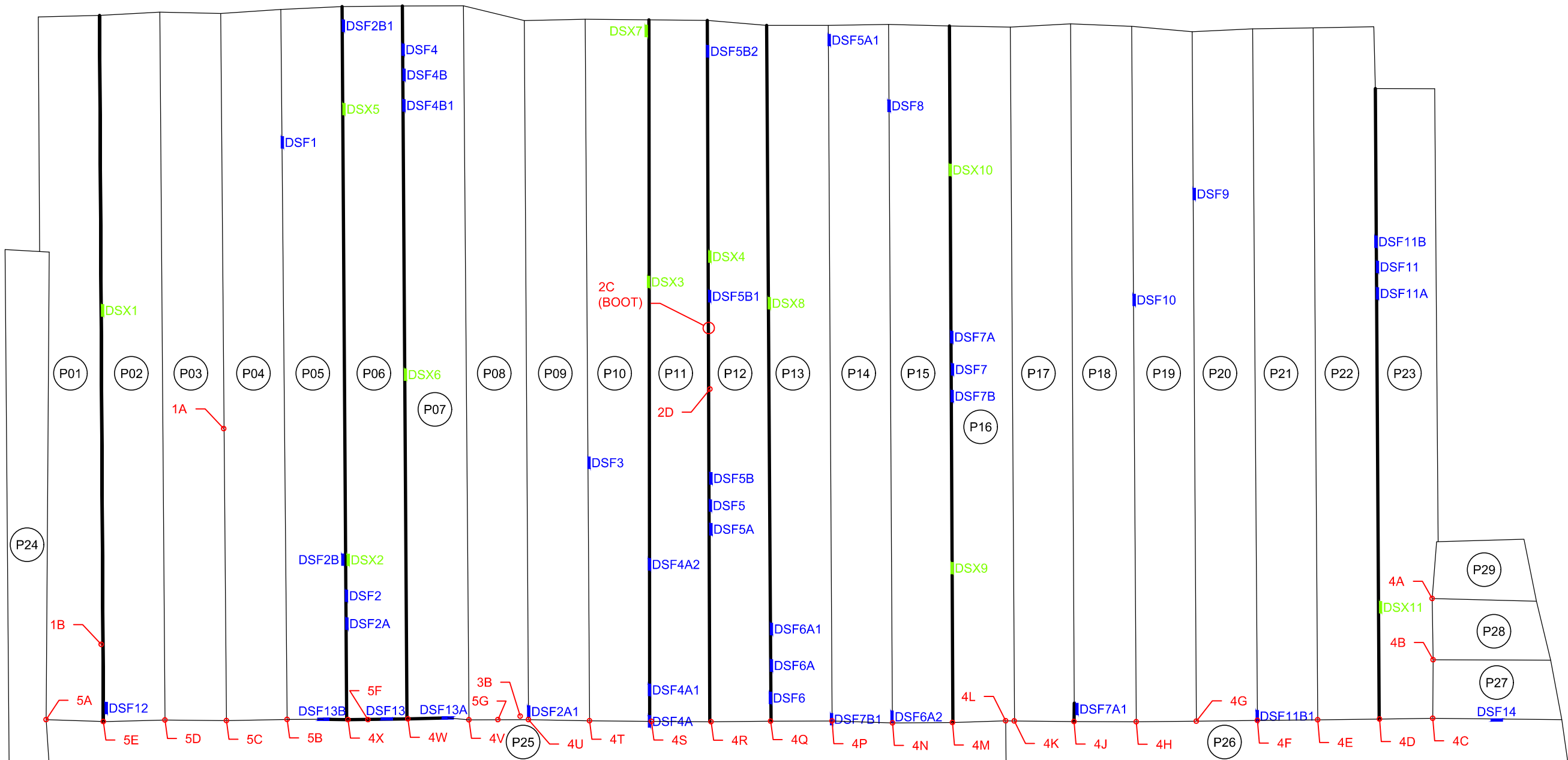


Angela Fidler-Kliewer, C.Tech.
Manager of Lab and Field Services



Nelson John Ferreira, Ph.D., P. Eng.
Geotechnical Engineer, Principal

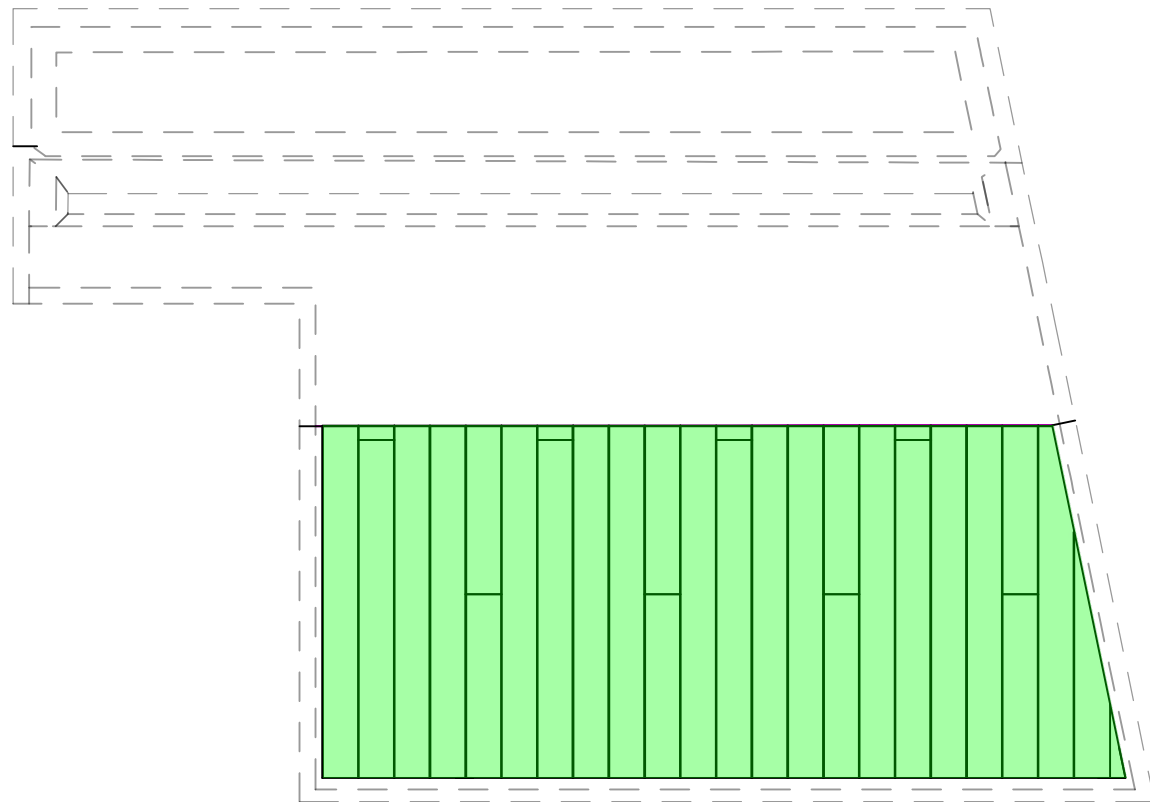
Z:\Projects\1000 Soils Lab\1000 Lab Projects\1000-043 WSP\1000-043 Prairie Green Landfill Search Facility Pad Construction\CAD\Fig 01 2024-10-21 PGL Search Facility Pad 0_B 1000-043-27.dwg, 2024-10-22 7:15:11 AM



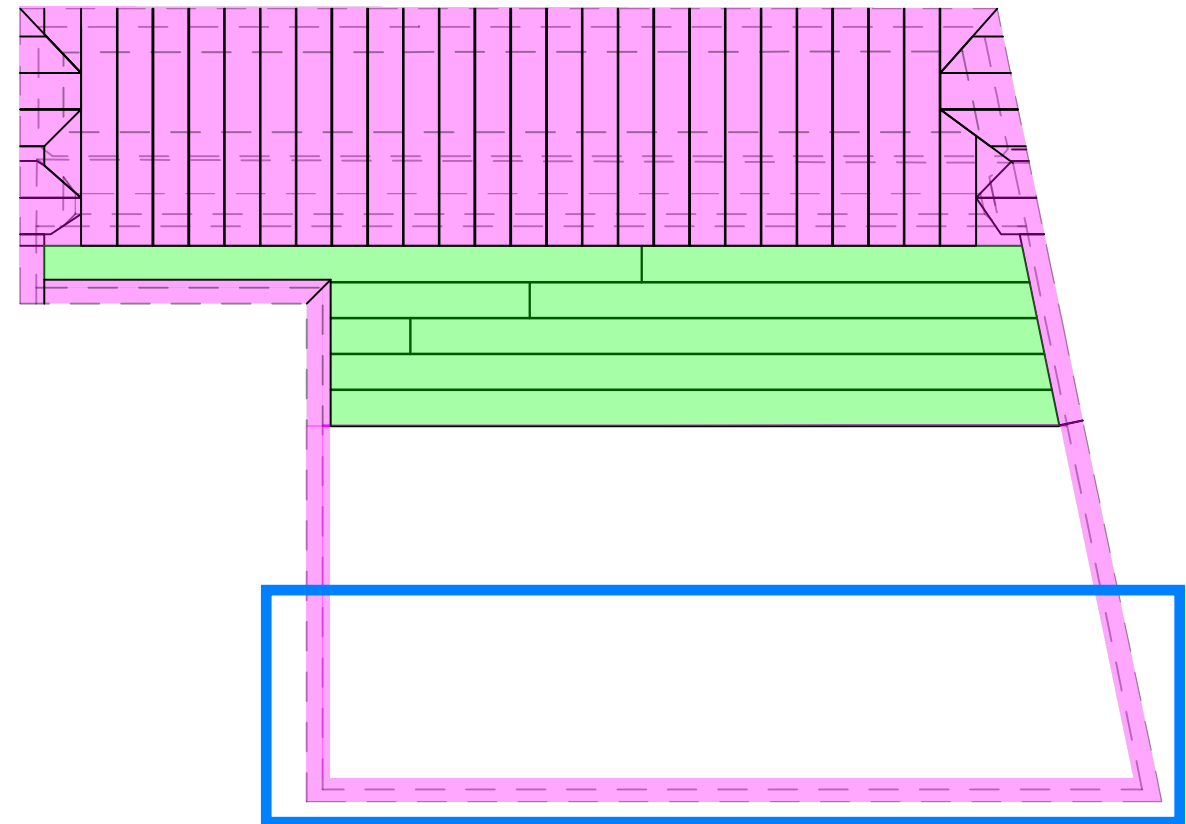
- 4C UNIQUE DEFECT IDENTIFICATION NUMBER
- DSF12 6U FUSION DESTRUCTIVE LOCATION AND DESIGNATION
- DSX1 EXTRUSION DESTRUCTIVE DESIGNATION
- FUSION SEAM
- EXTRUSION SEAM RECONSTRUCTION
- P01 PANEL DESIGNATION NUMBER

- NOTES:**
1. PANEL LOCATIONS ARE BASED ON SURVEY COMPLETED BY TREK GEOTECHNICAL.
 2. THE DRAWING IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING LETTER.

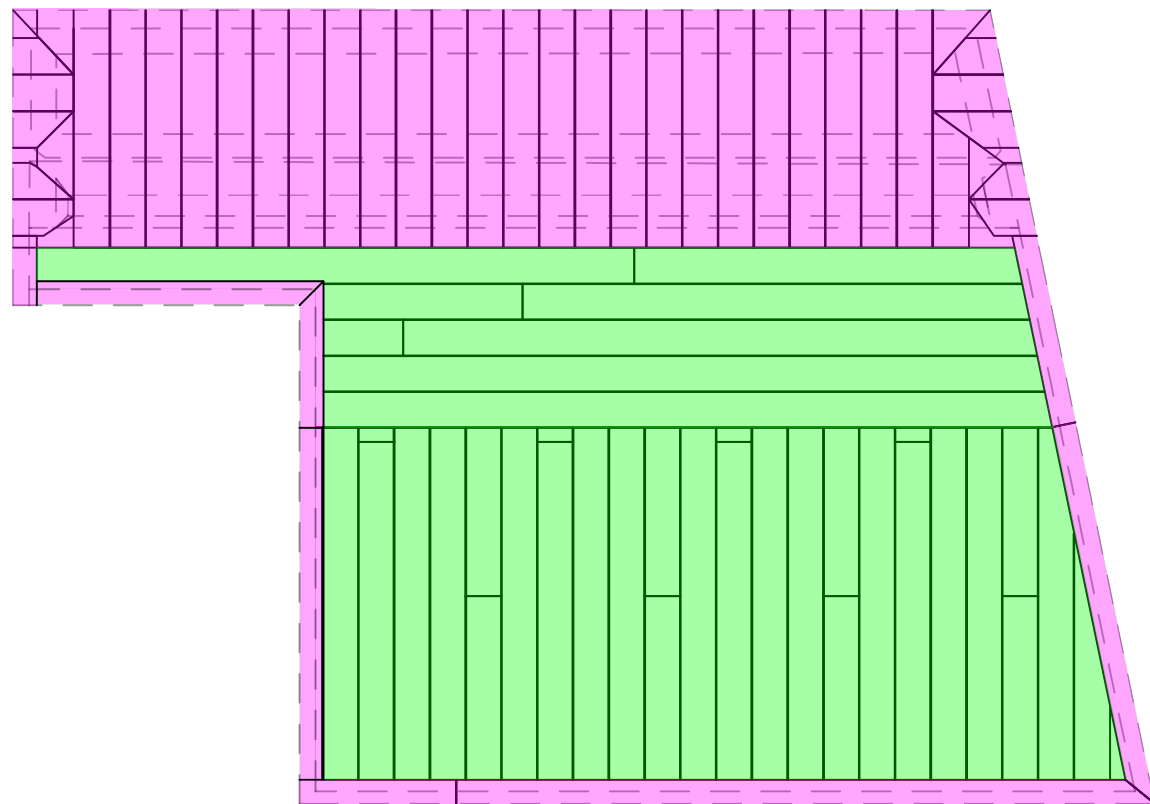
Figure 01
Geomembrane Panel Layout
MOB 2 - Part A



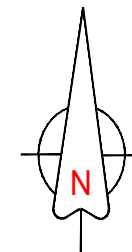
HDPE LINER PANEL LAYOUT MOB 1



HDPE LINER PANEL LAYOUT MOB 2



HDPE LINER PANEL LAYOUT TOTAL



LEGEND:

- TEXTURED LINER
- SMOOTH LINER

WSP - Submittal Review

WSP Canada Inc. have reviewed this submission for general conformance with the design aspects of the project. This review shall not relieve the Contractor or the Sub-contractor for errors or omissions or of meeting the requirements of the contract documents. WSP Canada Inc. assumes no responsibility for correctness of dimensions or details.

<input checked="" type="checkbox"/> No Comment	Project No. CA0039180.5749
<input type="checkbox"/> Reviewed as Noted	Project Name Search Pad Construction
<input type="checkbox"/> Amend and Resubmit	Reviewed By F. Gondim
<input type="checkbox"/> Rejected	Date: September 13, 2024



Report any discrepancies to Titan Environmental Containment Ltd. Do not scale dimensions from drawing. Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Titan Environmental Containment Ltd. Final Panel Locations to be installed at the discretion of the TITAN field Superintendant as see fit to existing site conditions..

NOT APPROVED FOR CONSTRUCTION

PROJ. NO.:	L240034	PRAIRIE GREEN LANDFILL SEARCH FACILITY	
DATE:	30-AUG-24	TITAN ENVIRONMENTAL CONTAINMENT LTD.	
DRAWN BY:	EA	CLIENT:	WASTE CONNECTIONS OF CANADA INC.
REV. BY:	EA	DWG TITLE:	HDPE LINER PANEL LAYOUT
SCALE:	NTS	REV. NO.:	002
		DWG NO.:	001