

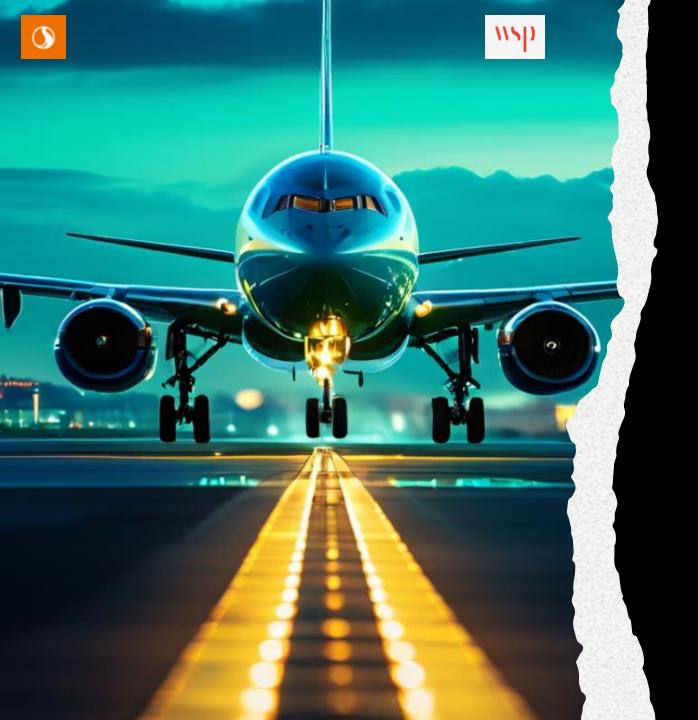


MATT FALCIONI

25 years experience in Airport/Airfield Operations

- Manager Operations, Airfield Ground Operations
- > Manager, Airfield Maintenance Runways & Taxiways





Balraj Parmar, P.Eng.,FMP

- Principal, Aviation Electrical Engineer at WSP, based in BC
- Worked as Senior Electrical Engineer at Stantec, based in Vancouver, BC
- Worked as Senior Electrical Engineer at GTAA
- 30+ Years of Experience
 - Airfield lighting electrical design
 - Electrical Maintenance
 - Terminal Infrastructure
 - Construction site supervision
 - Canadian Airports Electrical Association, President



Keeping Surfaces Available Day to Day...

Airfield Maintenance

- Operational Serviceability
- Preventative maintain of the surfaces
- Serviceability Inspection

Airfield Electrical

- Maintains lighting
- Preventative Maintenance on lights
- Maintenance Inspections

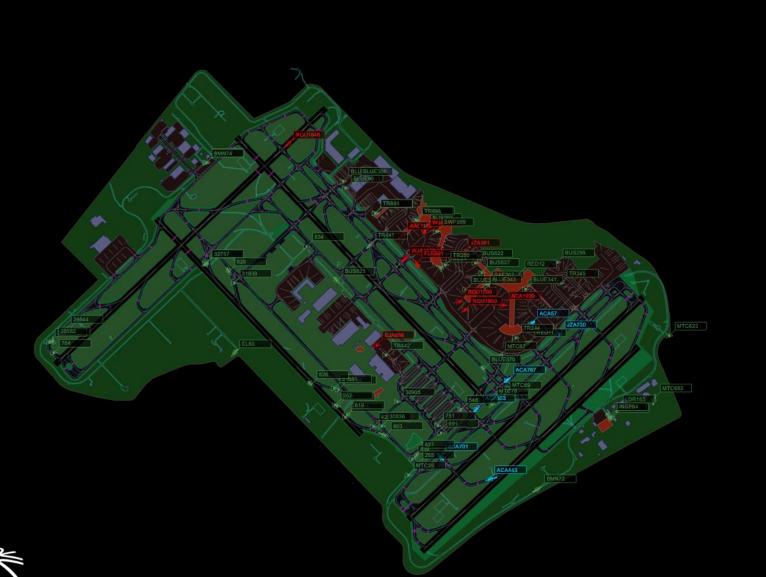
Airport Development & Technical Services

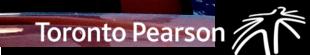
Supports the Operational Teams with Infrastructure Strategies











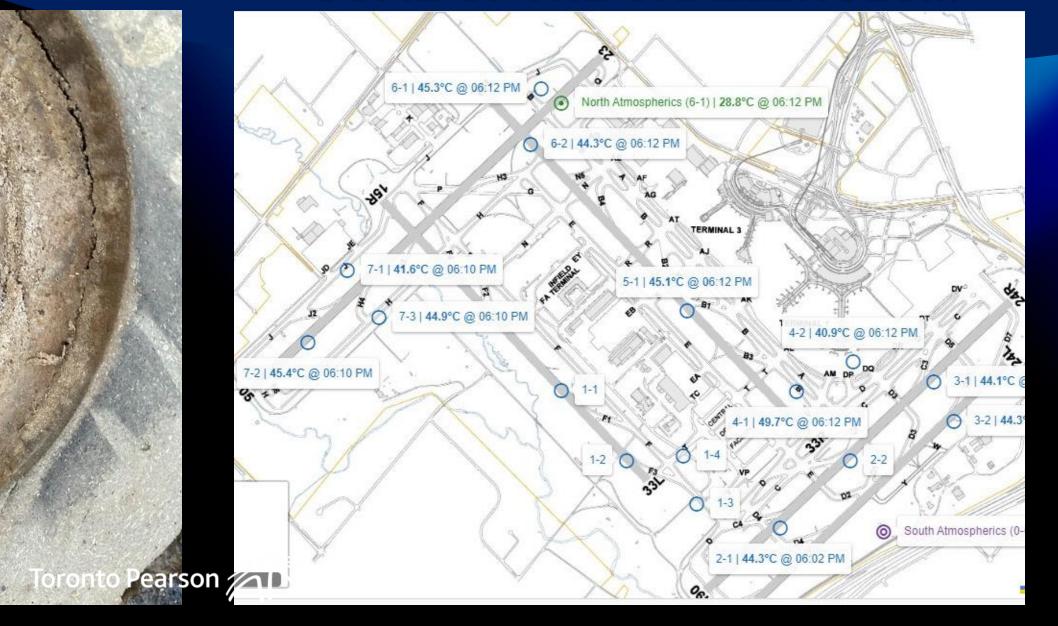




O South Atmospherics (0-







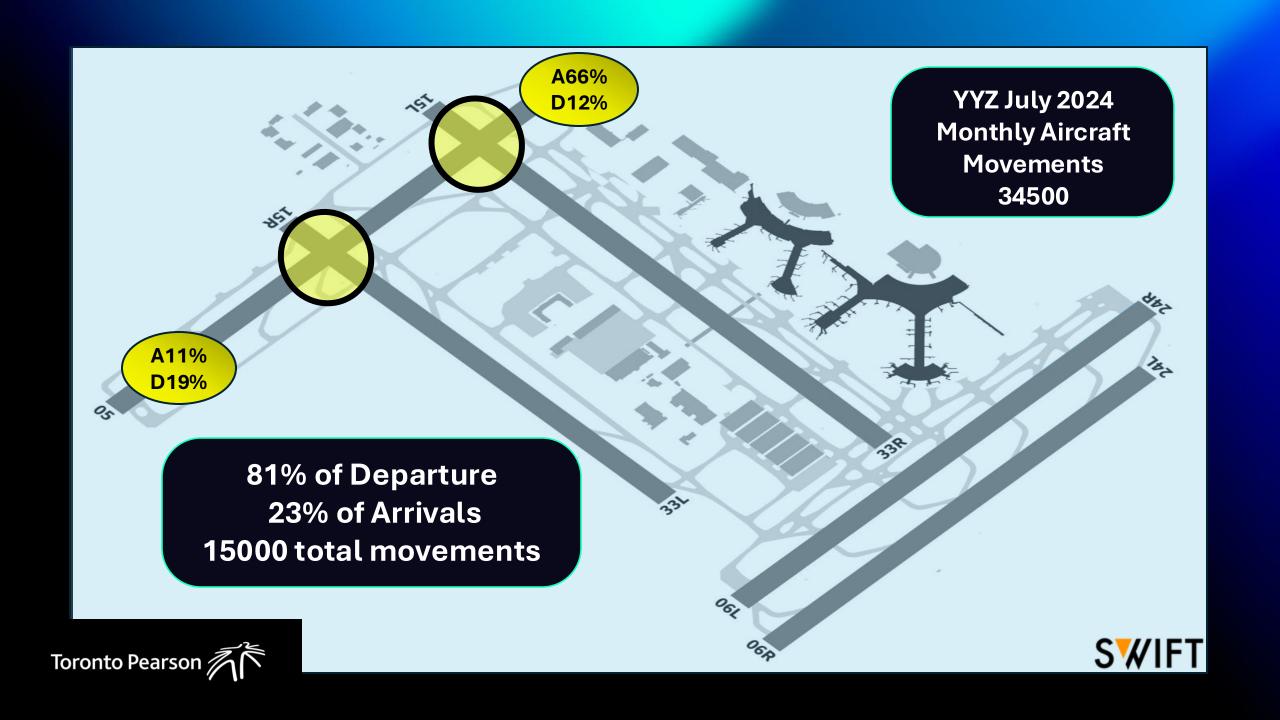








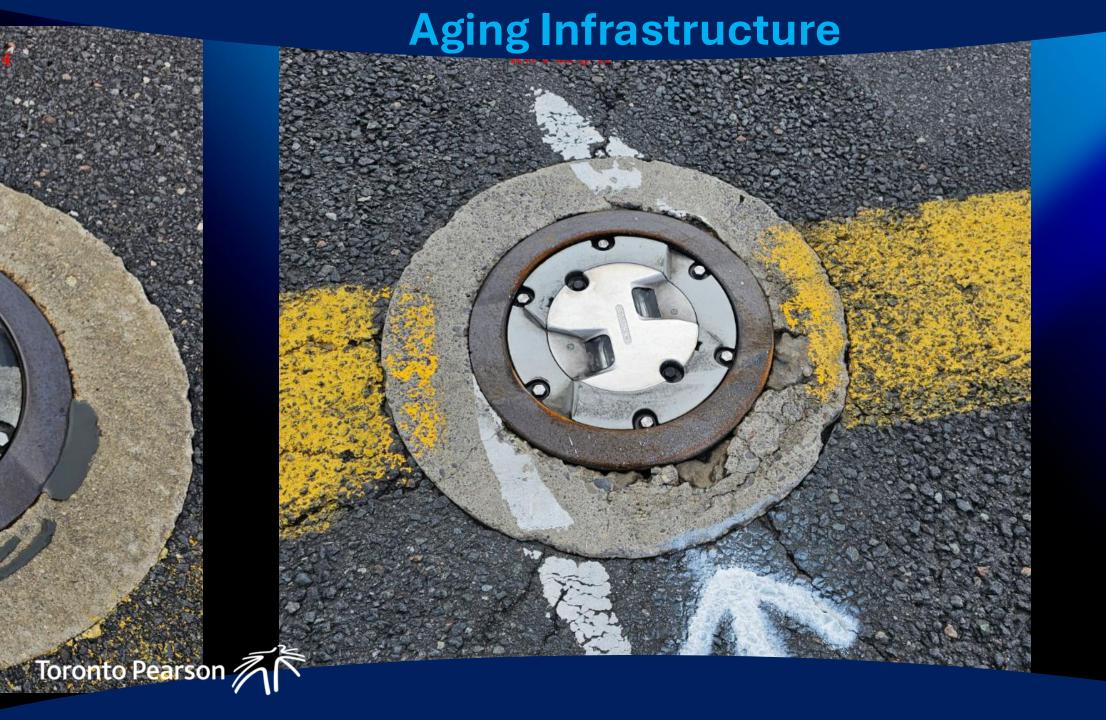




















What are we doing...

- Increase Inspections Frequency
- >LOWVIS Serviceability Inspection
- > Cross Departmental Inspections
- >Increased Access (Smaller Windows)
- ➤ Right Material for the Job
- Coordination between Nav, Carriers and Airport Authority for priority closures





Identifying Deficiencies



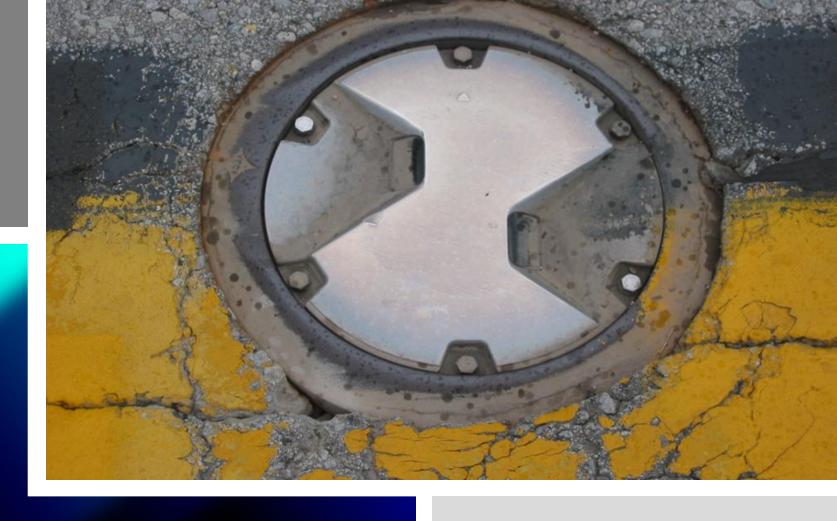






Small pieces of asphalt start missing around can.
This will create bigger issues if not addressed

early.







This was likely caused by improper compaction around the inset light when it was initially installed.



Most likely didn't have a solid concrete base underneath or a shallow inset can was installed





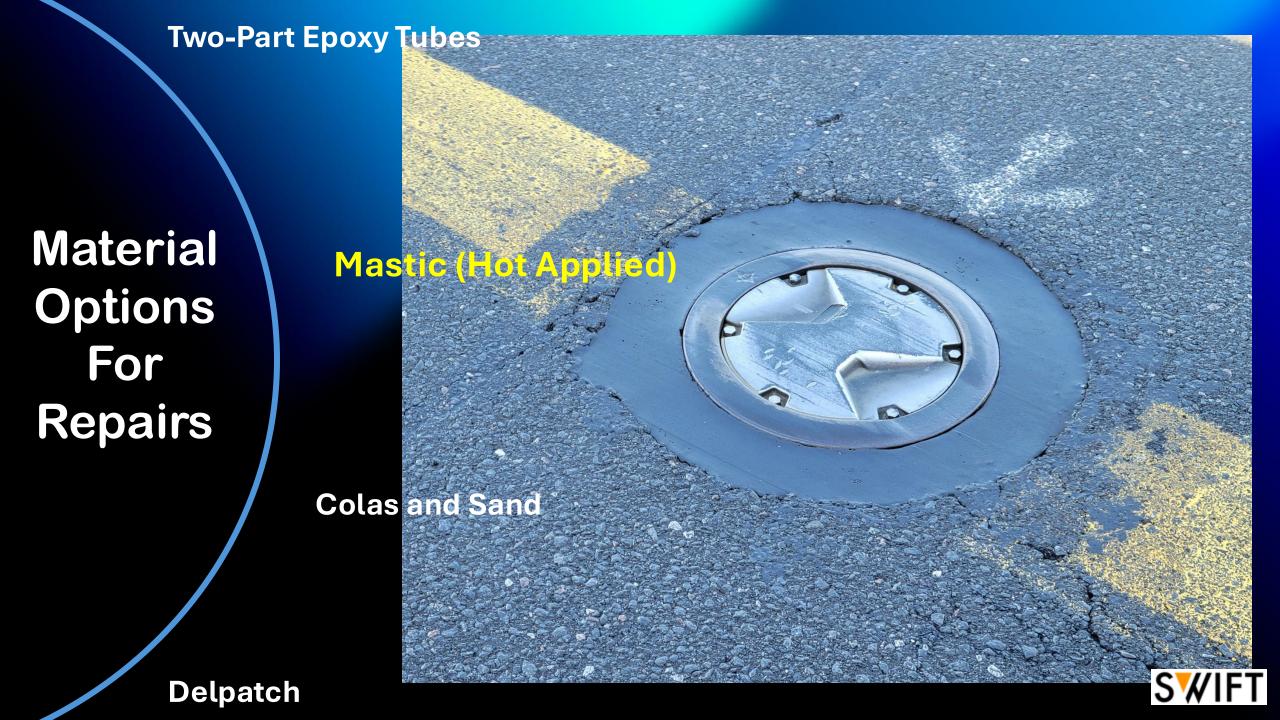
Concrete/Grout around inset can started breaking up

Can Generate FOD

Asphalt -> Concrete isn't ideal or a good match







Delpatch Material Two-Part Epoxy Tubes Options For Repairs **Mastic (Hot Applied)** Colas and Sand

Colas and Sand Delpatch Elastomeric Concrete can accept traffic in as little as one hour after the final pour when installed in normal working temperatures Material Delpate **Options** For Repairs **Two-Part Epoxy Tubes Mastic (Hot Applied)**

Matic Repair









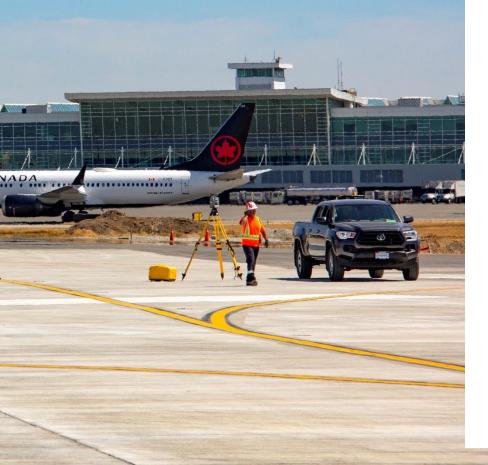
Delpatch Repair

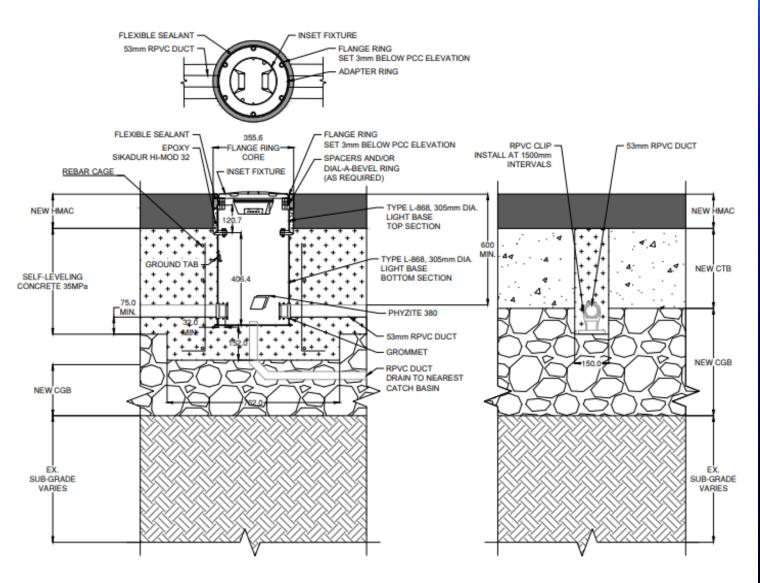






As-Builts/Base Plan Drawings





1 TYPICAL INSTALLATION OF NEW INSET LIGHT FIXTURE IN NEW HMAC

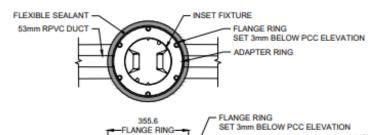


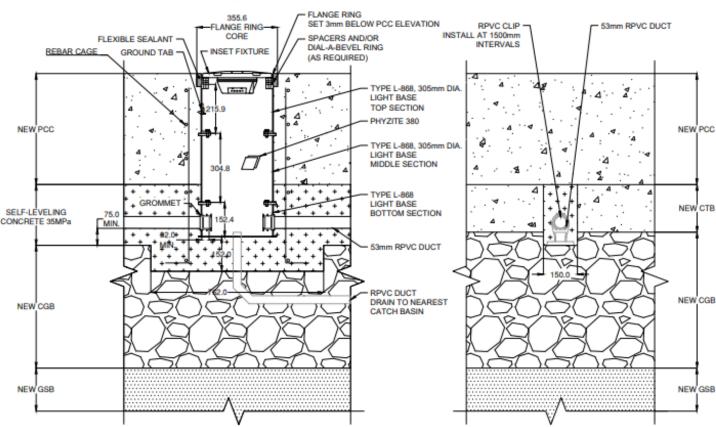




As-Builts/Base Plan Drawings, cont'd









TYPICAL INSTALLATION OF NEW INSET LIGHT FIXTURE IN NEW PCC

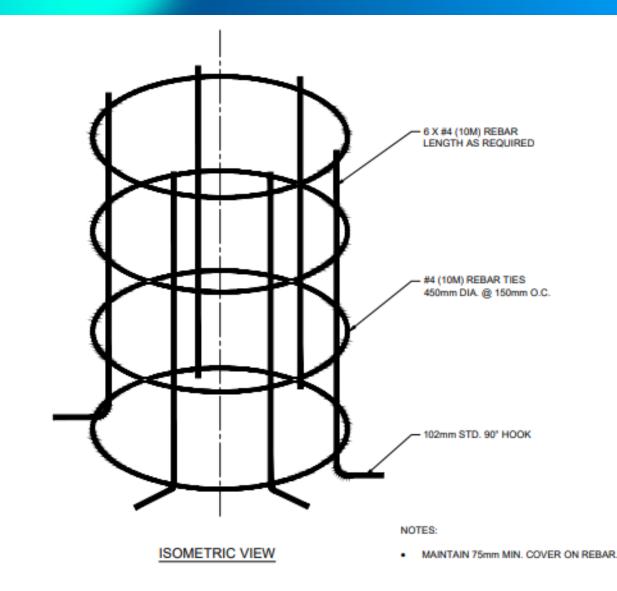
SCALE: 1:1

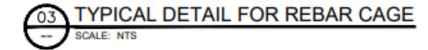




As-Builts/Base Plan Drawings, cont'd



















YVR SOUTH AIRFIELD
PAVEMENT
REHABILITATION
**2023 (TAXIWAY L, L2,
L4, D3) **







As-Builts/Base Plan Drawings, cont'd

- As-Built Drawing Update
 - Maintain a central database of base cans, extension rings and spacers etc..
 - Get a good experienced design consultant
 & contractor for the project
 - Pre-design survey of the site to find issues with inset light/cans.



What next?

- > Emergency Temporary Lighting
- Proof of Concept Al Feasibility
 - > Full Infrastructure Upgrade

