

Enterprise Mobile Mapping Program

Remote Sensing Technology and more...





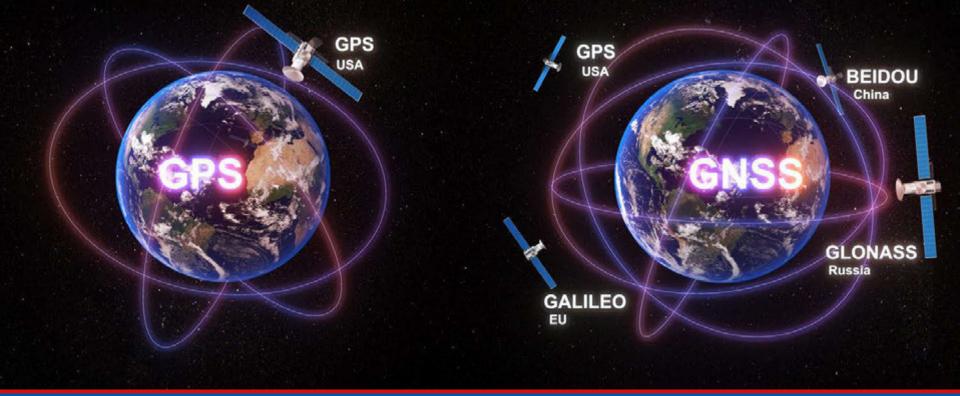
Remote Sensing is in all of us!





What is Remote Sensing?

Remote sensing - is the science of obtaining information about objects or areas from a distance, typically from aircraft or satellites.



GPS vs. GNSS

Let's make measurements more accurate.





Mobile Mapping Technology









MX90







Recent District Projects





Caprock Canyon CHL SH256 Roadway Improvement



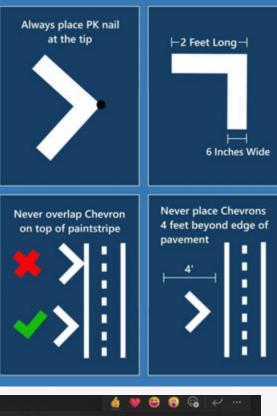


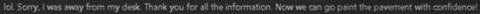
Target Specifications





Lin Xie 2/20 5:12 PM







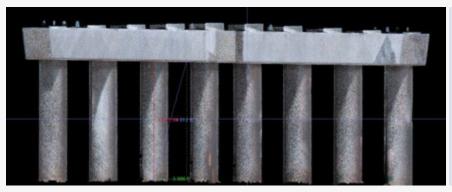


Bison Jam?





Unfinished Business LBB US87

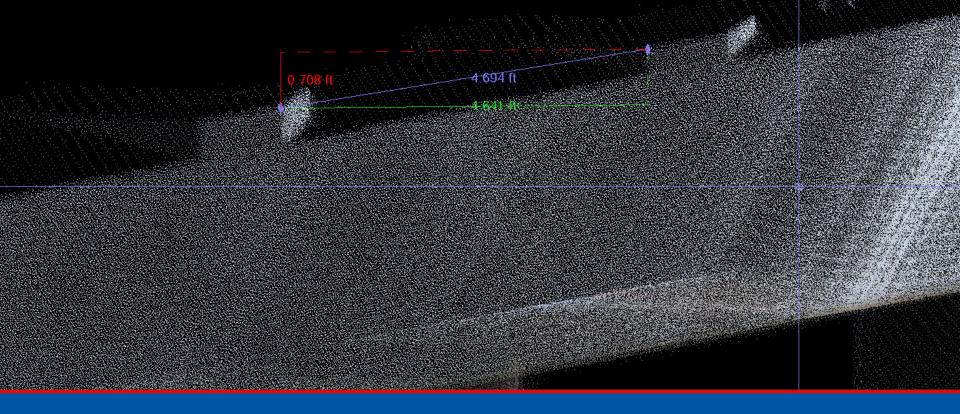








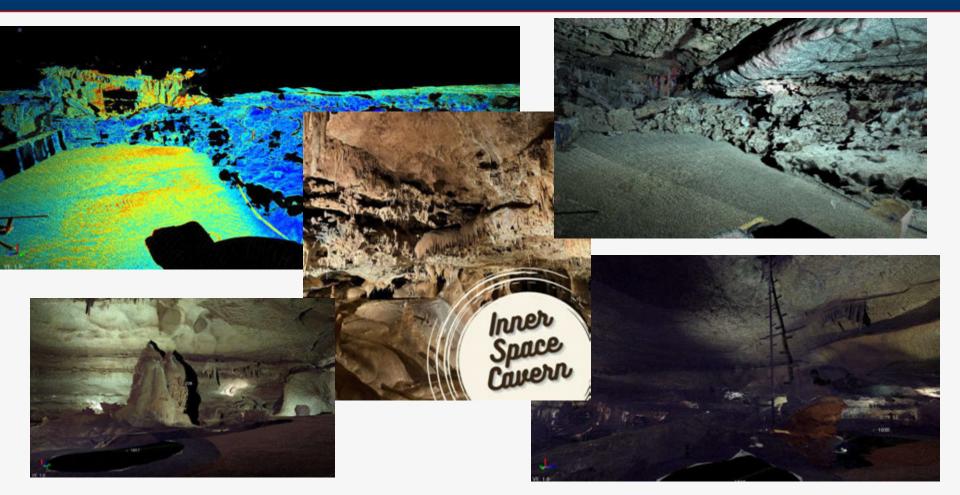
MX90



Bridge Seat Measurements



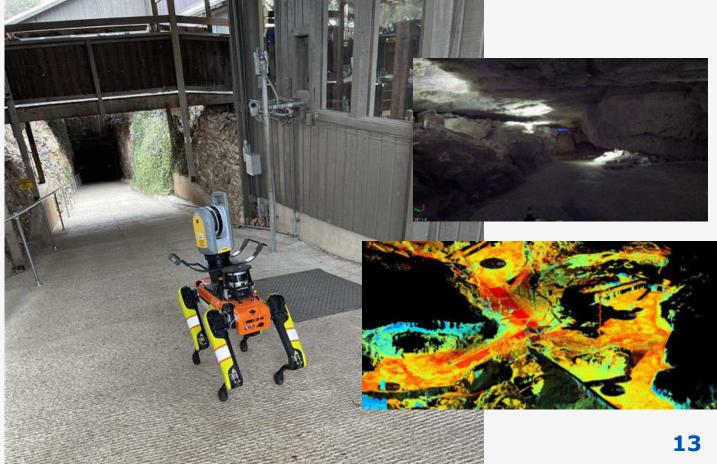


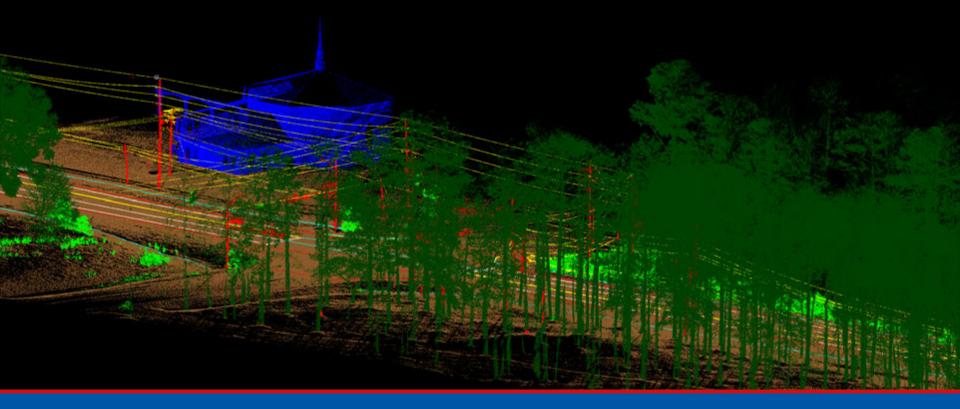




SPOT Fetch!

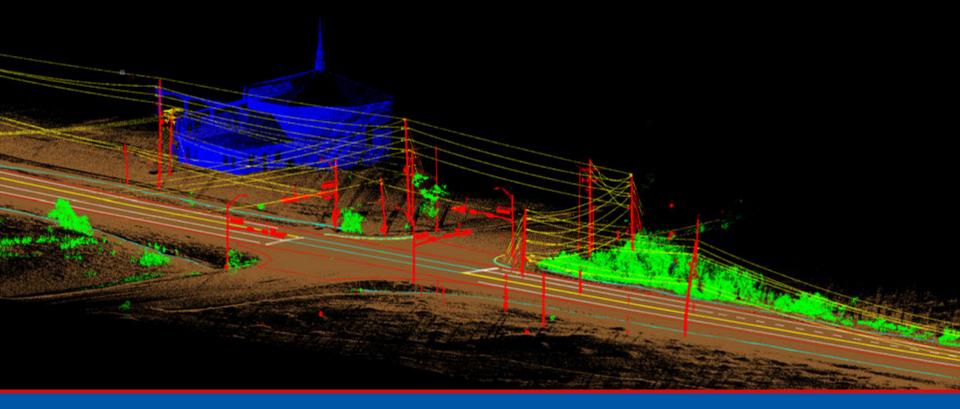






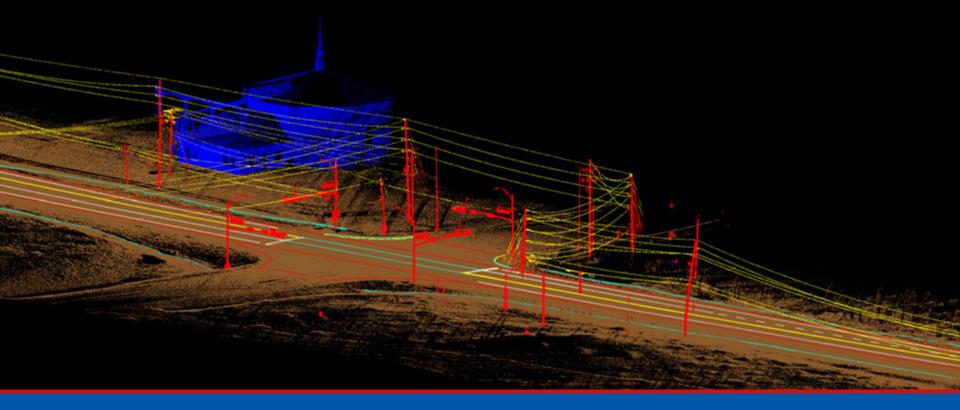
Point Cloud Region Classification.





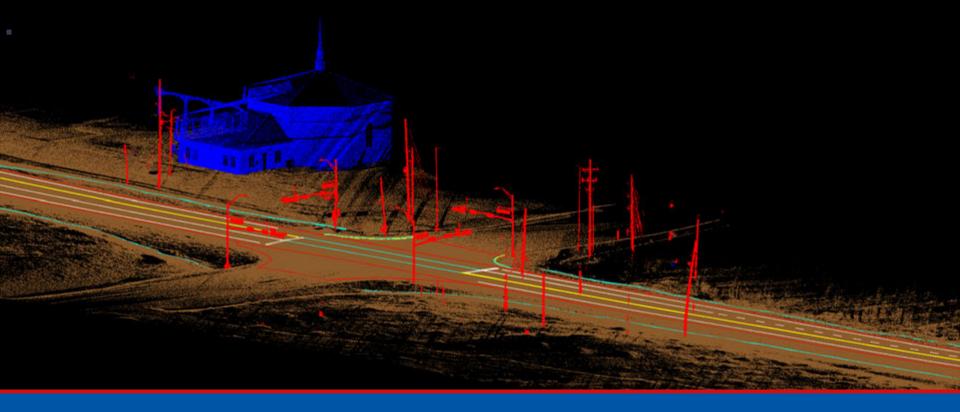
Point Cloud Region Classification.





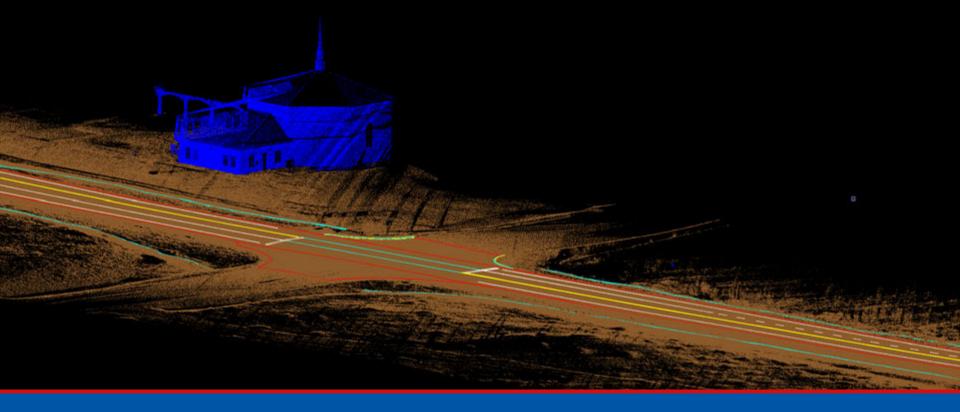
Point Cloud Region Classification.





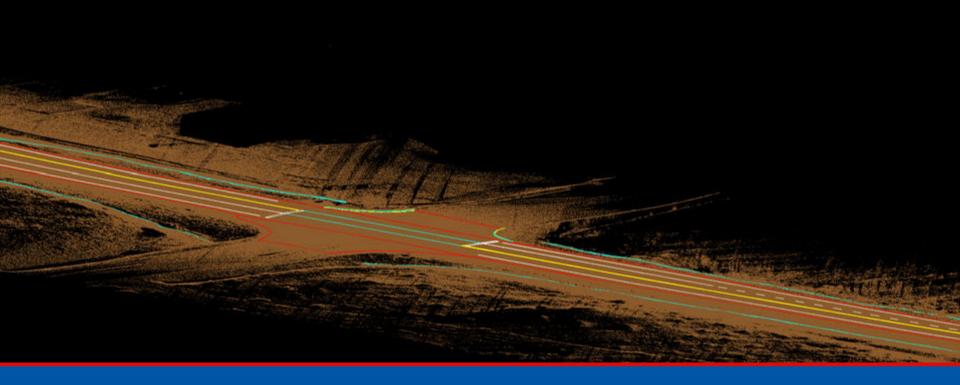
Point Cloud Region Classification.





Point Cloud Region Classification.



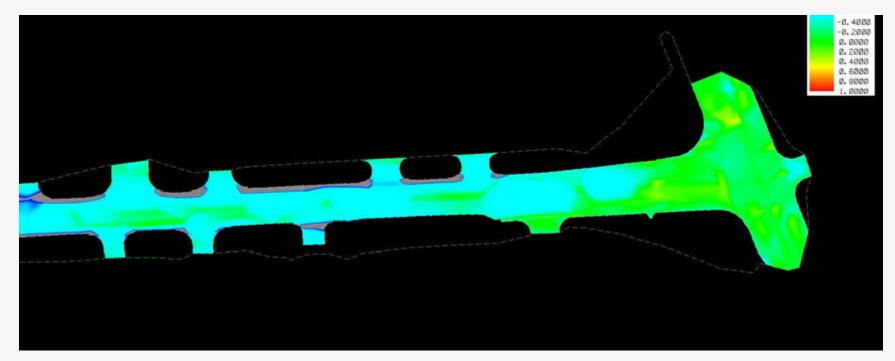


Point Cloud Region Classification.





Pre-Letting and Surface Comparisons (Heat Map)



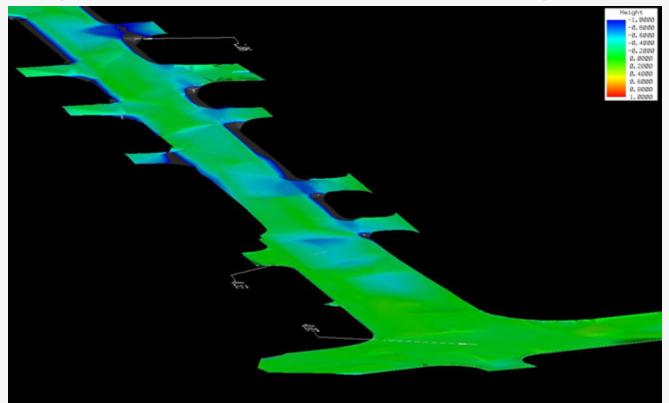


Pre-Letting and Surface Comparisons (2016-2025)

459	
466	2016to2025 Depth Sheding 2.000 1.500
400	1.000 - 0.500 - 0.000 -
460	-0.500 -1.000 -1.500
900	

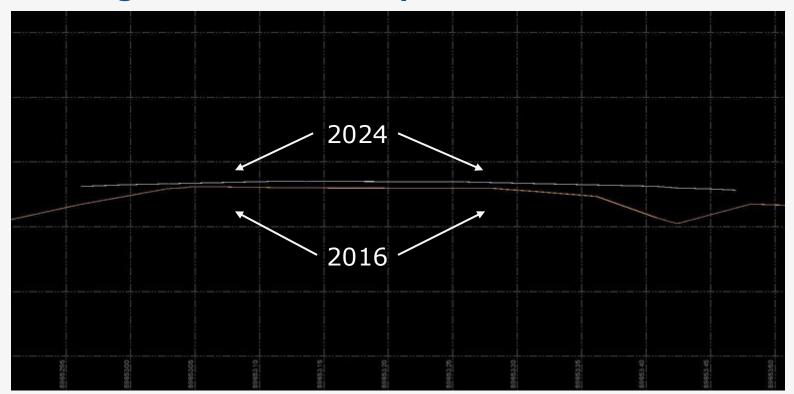


Pre-Letting and Surface Comparisons (Height Change)





Pre-Letting and Surface Comparisons





Pre-Letting and Surface Comparisons

Bank Areas Based on Sur	face Geometry Alone
Cut area	32,829.1 ft ²
Fill area	320,296.2 ft ²
Zero volume area	8.1 ft ²
Total	353,133.4 ft ²



Project File D	ata	Coordinate System	Construction of the second
Name	N 'old atlants	Name:	United States NAD83
Size	texarcana/202405/ATL_FM_1297_surface_to_surface yor 5 MB	Zone	Texas North Central 4203 (ffUS)
Modified:	4/2/2025 1:45:28 PM (UTC:-5)	Dansa:	NAD63(2011)
Time zone: Reference	Cestral Standard Time	Global reference datum	NAD83(2011)
number: Description:		Global reference epoch	2010
Comment 1: Comment 2:		Groid Netical datase:	GEOID18 (Conns)
Contanent 3		Calibrated site	Default

Project latitude	N13*49*11.45166*	Ground scale factor	1.00012
Project longitude:	W105*45'50.35789*	False porthing offset:	0.000 B
Project beight:	0.000 ft	False easting office:	0.000 @

Surfaces	
DTM_2016 EXIM_2025	Classification: Origina Classification: Origina
Bank Volumes Based on Surface Ocemetry Alone	
Cut material Fill material	109.6 yi 4.291.8 yi
Deficit	4,382.2 y
Bank Area: Based on Surface Geometry Alone	
Cutarea	32,829.3.0
Fill area	329,296.2 (
Zero volume area	8.1 1
Total	353,133.4

2.252 fr
5.338 ft

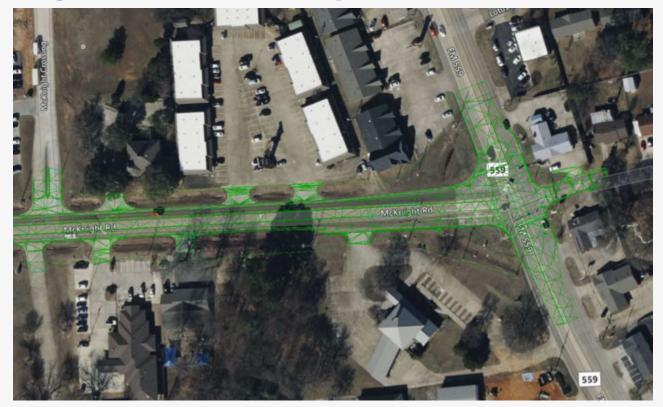
Note: 'Cot Material' is defined as material where [EMM_2025] is lower than [DTM_2016]. 'Fill Material' is defined as the volume of material where [EMM_2025] is higher than [DTM_2016].

Note: The above volumes are calculated solely from the grometries of the selected surfaces. No material properties are applied to the above numbers.

Date: 4/2/2025 3:37:56 PM	Project: N'old atlauta texarcana/202405/ATL_PM_1297_surface_to_surface voe	Trimble Business Center
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Pre-Letting and Surface Comparisons













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TxDOT Employee Resources



■ YEAR CLARK

Alexander Martinez M: (512) 783-6846 Email: Alexander.Martinez @TxDOT.gov







#EndTheStreakTX

End the streak of daily deaths on Texas roadways.

TxDOT.gov #EndTheStreakTX Toolkit

