

**CADD Office
presents
NEW GEOTECH TOOLS
of
FDOTConnect 10.09**

Bentley Platform History

- Select Series – GEOPAK Borehole Navigator
 - Connect 10.07, 10.08 – OpenRoads Designer gINT Civil Tools
 - **Connect 10.09 – FDOTConnect Geotech Tools**
-

FDOT Connect Geotech Tools

- Replaces SS4/10 Geotech Tools for SPT Data Spreadsheet
 - Replaces Imports legacy Borehole and Material files formats
 - Plots 2D Boring Location for Plans
 - Plots 3D Borings for Cross Section Views
 - Creates Report of Borings for sheets
-

FDOT Connect Geotech Tools

- Replaces SS4/10 Geotech Tools for SPT Data Spreadsheet
GeoTech Data Manager (GDM)
 - Imports new format of the following spreadsheets
 - Structures - ReportOfBoringsTemplate.xlsx for SPT Borings
 - Roadway - BoreholeSample.xlsx for Auger Borings
 - legacy Borehole and Material files formats
 - Can be manually copied and pasted into new BoreholeSample.xlsx format
 - All types of borings can be added manually in the GDM
 - The GDM will save out to xml for other tools to use
-

FDOT Connect Geotech Tools

Place Borehole Tool

In 2D Plan

- Plots 2D Boring Location for Plans

In 3D Model

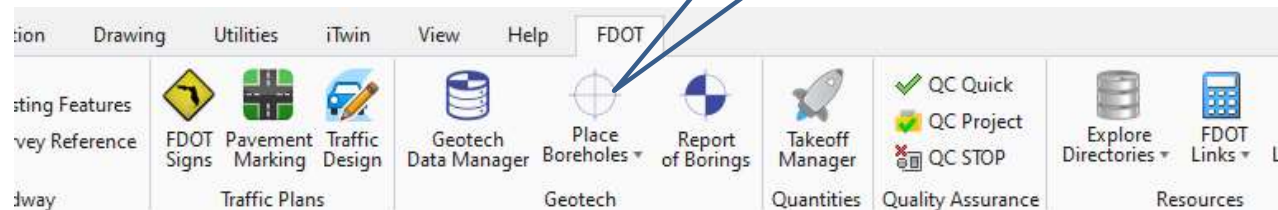
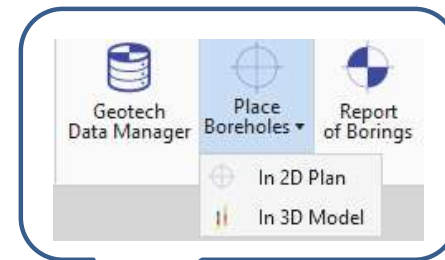
- Plots 3D Borings in a Model for Cross Section Views

Report of Borings

- Creates Report of Borings for sheets
-

FDOTConnect Geotech Tools

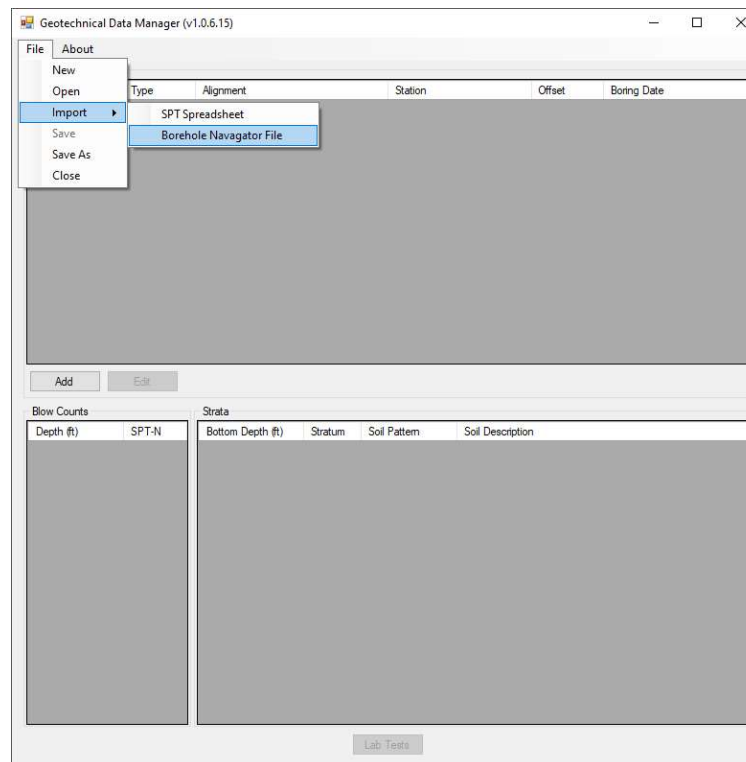
- Geotech Data Manager (GDM)
- Place Boreholes
 - Places the Borehole Data into 2D
 - Places the Borehole Data into 3D
- Report of Borings



FDOTConnect Geotech Data Manager (GDM)

- New
- Open
- Import
- Save/Save As

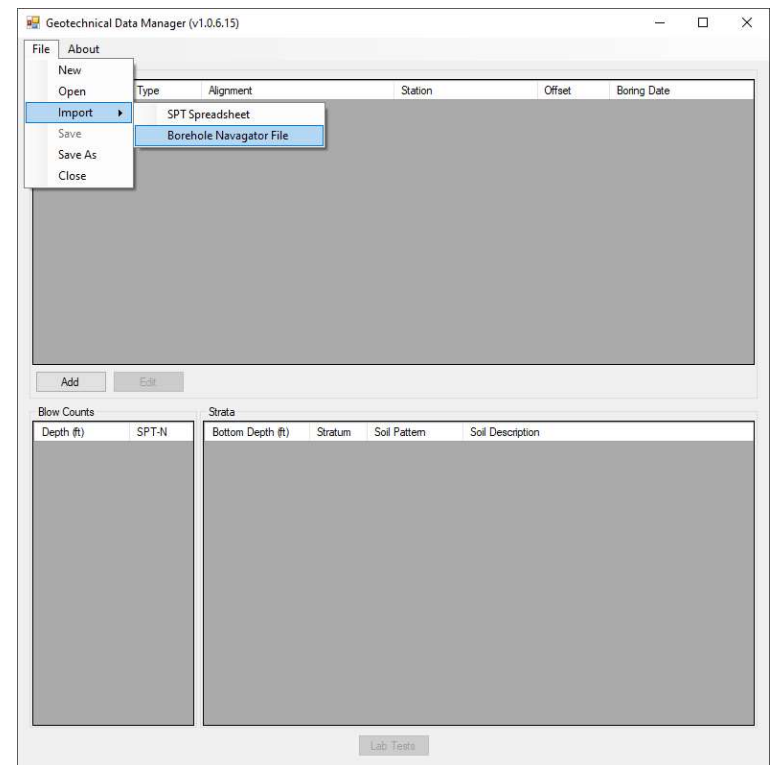
Create xml output file



FDOTConnect Geotech Data Manager

- Import
 - SPT Spreadsheet – “Structures”
 - ReportOfBoringsTemplate.xlsx
 - Borehole Navigator File – “Roadway”
 - BoreholeSample.xlsx

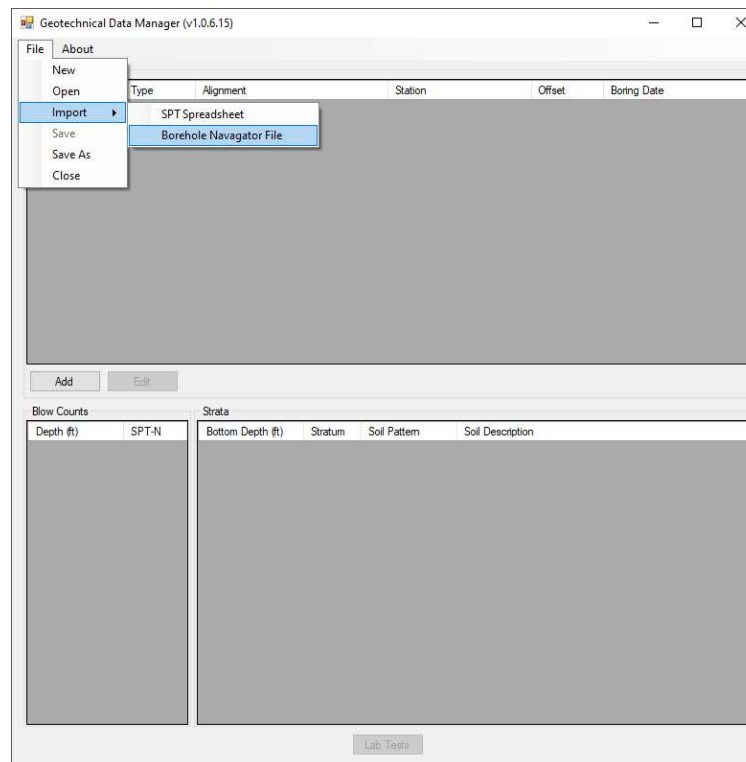
Note: Sample files are delivered in the Project Workset *Geotechnical* Folder



FDOTConnect Geotech Data Manager

- Import
 - Legacy SPT
 - Legacy BHR-MTL

Note: Sample files are delivered in the Project Workset *Geotechnical* Folder



ReportOfBoringsTemplate.xlsx

B		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	AJ	AK	AL	
1		Blow Counts		Stratum							Lab Testing				REC%	-200	PI	LL	Organi	D50		Cr	Custom	Custom	Custom	
2		Header/Footer		Depth (ft)	Value	Depth (ft)	Value	Soil Description			Sample Type	Start Depth (ft)	End Depth (ft)	Sample No	w	gamma(pcf)	Cr	Cc	Calpha	Cv	OCR					
3	BORING #	BB-11		1	1.00	5	1	11.00	SiltySand	BROWN SLIGHTLY SILTY FINE SAND (SP-SM)			Sample	11.5	12.5		32	12								
4	STATION	195+69																								
5	REFERENCE	WESTBO		2	3.00	6	2	18.00	Sand	LIGHT GRAY SILTY FINE SAND (SM)			Sample	19	20		53	89	34	49						
6	OFFSET	98' LT		3	5.00	8	3	21.00	Clay	LIGHT GRAY CLAY (CL)			Sample	26.5	28		27	8								
7	ELEVATION (ft)	19.40		4	6.50	WOH	4	33.00	SiltySand	GRAY SLIGHTLY SILTY FINE SAND (SP-SM)			Sample	36.5	38		32	4								
8	DATE	8/22/2018		5	7.00	8	5	43.00	Sand	GRAY FINE SAND (SP)			Sample	95.5	96.5		33	90	31	55						
9	DRILLER	CSI GEO IM		6	9.00	4	6	63.00	LimestoneSoft	LIGHT GRAY HIGHLY WEATHERED LIMESTONE WITH CLAY																
10	HAMMER	Auto		7	12.00	2	7	73.00	LimestoneHard	LIGHT GRAY HIGHLY WEATHERED LIMESTONE																
11	RIG			8	14.50	2	8	81.00	Clay	LIGHT GRAY (CH) WITH FEW LIMESTONE FRAGMENTS																
12	CASING LENGTH (ft)	99.80		9	17.00	2	9	100.00	LimestoneHard	LIGHT GRAY HIGHLY WEATHERED LIMESTONE																
13	Ground Water (ft)	6.50		10	19.50	3	10		None (Cavity)																	
14	Season Hi Water (ft)			11	22.00	3	11		None (Cavity)																	
15	24 hour Water (ft)			12	24.50	5	12		None (Cavity)																	
16	Grout Qty			13	27.00	13	13		None (Cavity)																	
17				14	29.50	15	14		None (Cavity)																	
18				15	32.00	14	15		None (Cavity)																	
19				16	34.50	10	16		None (Cavity)																	
20				17	37.00	7	17		None (Cavity)																	
21				18	39.50	6	18		None (Cavity)																	
22				19	42.00	6	19		None (Cavity)																	
23				20	44.50	8	20		None (Cavity)																	
24				21	47.00	7	21		None (Cavity)																	
25				22	49.50	26	22		None (Cavity)																	
26				23	52.00	29	23		None (Cavity)																	
27				24	54.50	42	24		None (Cavity)																	
28				25	57.00	48	25		None (Cavity)																	
29				26	59.50	30	26		None (Cavity)																	
30				27	62.00	31	27		None (Cavity)																	
31				28	64.50	29	28		None (Cavity)																	
32				29	67.00	33	29		None (Cavity)																	
33				30	69.50	50/6"	30		None (Cavity)																	
34				31	72.00	50/4"	31		None (Cavity)																	
35				32	74.50	50/6"	32		None (Cavity)																	
36				33	77.00	50/5"	33		None (Cavity)																	
37				34	79.50	50/4"	34		None (Cavity)																	
38				35	82.00	31	35		None (Cavity)																	

Sample SPT Boring Worksheet

BoreholeSample.xlsx
BoreHoles Tab

Columns Headers must not be changed from the sample

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	BoreholeId	Alignment	Station	Offset	Easting	Northing	Latitude	Longitude	Elevation	WaterElevationType	ZeroHourWaterDepth	ZeroHourWaterDate	TwentyFourWaterDepth	TwentyFourWaterDate	SeasonHiWaterDepth	SeasonHiWaterDate
2	TL-180	CL1	180+00	45			30°15'53.791254"	-82°55'03.670552"		DOC	GNE	06/30/2020				4
3	TL-181L	CL1	181+00	-18			30°15'53.795854"	-82°55'02.322786"		DOC	GNE	06/30/2020				7
4	TL-181R	CL1	181+00	49			30°15'53.233333"	-82°55'02.727506"		DOC	GNE	06/30/2020				
5	TL-182L	CL1	182+00	-18			30°15'52.717387"	-82°55'01.754254"		DOC	GNE	06/30/2020				
6	TL-182R	CL1	182+00	48			30°15'53.271505"	-82°55'01.355575"		DOC	GNE	06/30/2020				
7	TL-183L	CL1	183+00	-18			30°15'52.176244"	-82°55'00.799131"		DOC	GNE	06/30/2020				
8	TL-183R	CL1	183+00	50			30°15'52.747165"	-82°55'00.388367"		DOC	GNE	06/30/2020				7
9	TL-184L	CL1	184+00	-18			30°15'51.643502"	-82°54'59.837968"		DOC	GNE	06/30/2020				
10	TL-184R	CL1	184+00	51			30°15'52.222812"	-82°54'59.421162"		DOC	GNE	06/30/2020				
11	TL-185	CL1	185+00	-18			30°15'51.698458"	-82°54'58.453971"		DOC	GNE	06/30/2020				9
12	TL-186	CL1	186+00	-18			30°15'51.174102"	-82°54'57.486772"		DOC	GNE	06/30/2020				
13	TL-187	CL1	187+00	-18			30°15'50.649753"	-82°54'56.519575"		DOC	GNE	06/30/2020				
14	TL-188	CL1	188+00	-18			30°15'50.125393"	-82°54'55.552381"		DOC	GNE	06/30/2020				10
15	TL-189	CL1	189+00	-18			30°15'49.60103"	-82°54'54.58519"		DOC	GNE	06/30/2020				
16	TL-190	CL1	190+00	-20			30°15'49.093458"	-82°54'53.605919"		DOC	GNE	06/30/2020				
17	TL-191	CL1	191+00	-23			30°15'48.594286"	-82°54'52.620619"		DOC	GNE	06/30/2020				10
18	TL-192	CL1	192+00	-19			30°15'48.036332"	-82°54'51.677593"		DOC	GNE	06/30/2020				
19	TL-350	CL1	350+00	19			30°14'37.985521"	-82°52'12.086379"		DOC		4 06/29/2020				3
20	TL-351	CL1	351+00	31			30°14'37.538144"	-82°52'11.060211"		DOC		5 06/29/2020				4
21	TL-352	CL1	352+00	31			30°14'37.202511"	-82°52'09.987646"		DOC		4.5 06/29/2020				3
22	TL-353	CL1	353+00	30			30°14'36.876193"	-82°52'08.911224"		DOC		4 06/29/2020				3
23	TL-472	CL1	472+00	-40			30°13'55.961301"	-82°50'01.743506"		DOC	GNE	06/29/2020				
24	TL-473	CL1	473+00	-37			30°13'55.372944"	-82°50'00.816637"		DOC	GNE	06/29/2020				7
25	TL-474	CL1	474+00	-35			30°13'54.778936"	-82°49'59.895543"		DOC	GNE	06/29/2020				
26	TL-475	CL1	475+00	-40			30°13'54.226638"	-82°49'58.938864"		DOC	GNE	06/29/2020				
27	TL-519	CL1	519+00	37			30°13'21.753152"	-82°49'25.513793"		DOC	GNE	06/29/2020				
28	TL-520	CL1	520+00	37			30°13'21.008277"	-82°49'24.7631"		DOC	GNE	06/29/2021				
29	TL-521	CL1	521+00	36			30°13'20.269914"	-82°49'24.003819"		DOC	GNE	06/29/2020				8
30	TL-522	CL1	522+00	36			30°13'19.525026"	-82°49'23.253132"		DOC	GNE	06/29/2020				
31	TL-523	CL1	523+00	-40			30°13'19.275601"	-82°49'21.850567"		DOC	GNE	06/29/2020				
32	TL-524	CL1	524+00	-37			30°13'18.51115"	-82°49'21.125617"		DOC	GNE	06/29/2020				7
33	TL-525	CL1	525+00	-40			30°13'17.785817"	-82°49'20.349199"		DOC	GNE	06/29/2020				
34	TL-526	CL1	526+00	-40			30°13'17.040934"	-82°49'19.598525"		DOC	GNE	06/29/2020				
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																

Sample Roadway Boring Location
Worksheet

Column Headers Definitions

- **BoreholeID** – This is used to Identify the name of individual borehole
- **Alignment** – The alignment that the borehole will be referenced from
- **Station** – the station that the borehole is at on an Alignment
- **Offset** – the distance (Lt. or Rt.) away from the Alignment
- **Easting** – X coordinate where the borehole is placed
- **Northing** – Y coordinate where the borehole is placed
- **Latitude** – the angular distance of a place north or south of the earth's equator, usually expressed in degrees and minutes.
- **Longitude** – the angular distance of a place east or west of the meridian at Greenwich, England, or west of the standard meridian of a celestial object, usually expressed in degrees and minutes.
- **Elevation** – Is the elevation at the existing ground
- **WaterElevationType** – **The other**This defines the Depth of Cover (DOC) or Strata which will specify a specific elevation.
- **ZeroHourWaterDepth** – Groundwater elevation encountered @ first exposure.
- **ZeroHourWaterDate** – Date of Zero Hour Water
- **TwentyFourHourWaterDepth** – Groundwater Elevation encountered after 24 Hour.
- **TwentyFourHourDate** – Date when 24 Hour water
- **SeasonalHiWaterDepth** – The Depth of the Seasonal High Water
- **SeasonalHiWaterDate** – Date of High Water

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- **SeasonalHiWaterDate** – Date of High Water

BoreholeSample.xlsx
Materials Tab

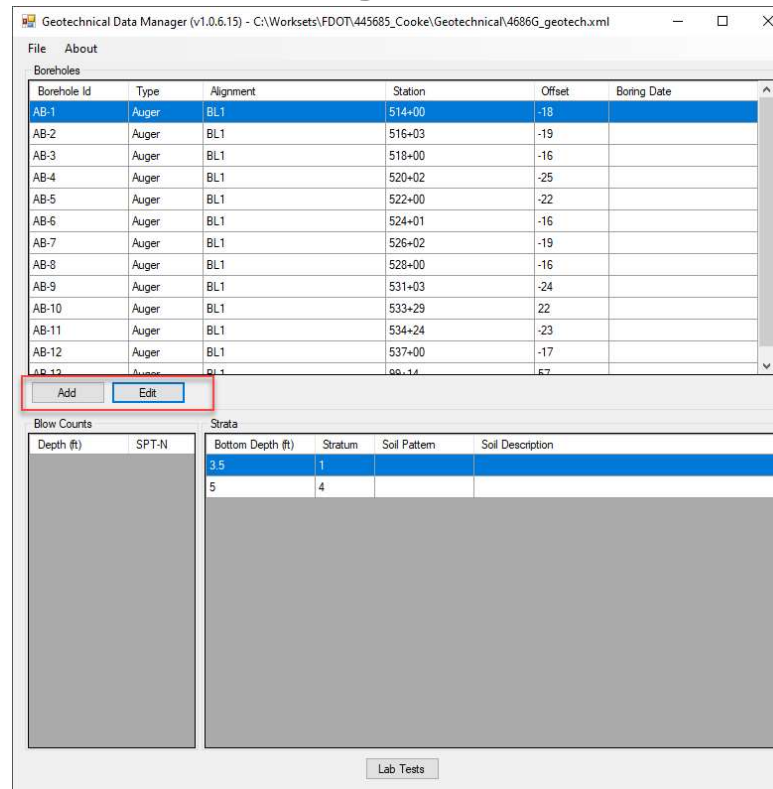
Columns Headers must not be changed from the sample

	A	B	C	D	E	F
1	BoreholeId	StratumId	ElevationType	Depth	AASHTO	SoilDescription
2	TL-180	3	DOC	4	A-2-4	GRAY, TAN - SILTY FINE SAND
3	TL-180	4	DOC	5.5	A-6	ORANGE - CLAYEY SOIL
4	TL-181L	3	DOC	8	A-2-4	GRAY, TAN - SILTY FINE SAND
5	TL-181L	4	DOC	10.5	A-6	ORANGE - CLAYEY SOIL
6	TL-181R	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
7	TL-182L	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
8	TL-182R	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
9	TL-183L	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
10	TL-183R	2	DOC	8	A-2-4	FINE SAND
11	TL-183R	4	DOC	10.5	A-6	ORANGE - CLAYEY SOIL
12	TL-184L	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
13	TL-184R	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
14	TL-185	2	DOC	9	A-2-4	FINE SAND
15	TL-185	3	DOC	10.5	A-2-4	GRAY, TAN - SILTY FINE SAND
16	TL-186	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
17	TL-187	1	DOC	5.5	A-3	BROWN, LIGHT BROWN, TAN, GRAY, LIGHT GRAY - FINE SAND
18	TL-188	3	DOC	7	A-2-4	GRAY, TAN - SILTY FINE SAND
19	TL-188	1	DOC	10.5	A-3	BROWN, LIGHT BROWN, TAN, GRAY, LIGHT GRAY - FINE SAND
20	TL-189	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
21	TL-190	1	DOC	5.5	A-3	BROWN, LIGHT BROWN, TAN, GRAY, LIGHT GRAY - FINE SAND
22	TL-191	1	DOC	10.5	A-3	BROWN, LIGHT BROWN, TAN, GRAY, LIGHT GRAY - FINE SAND
23	TL-192	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
24	TL-350	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
25	TL-351	2	DOC	5.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND
26	TL-352	2	DOC	10.5	A-2-4	LIGHT BROWN, TAN, GRAY, DARK GRAY, LIGHT GRAY - SILTY FINE SAND

Sample Roadway Boring Materials Worksheet

FDOTConnect Geotech Data Manager

- Edit



FDOTConnect Geotech Data Manager

- Edit

Edit Borehole

Borehole

Borehole Id:

Elevation (ft):

Driller:

Borehole Type:

Vertical Datum:

Hammer Type:

Boring Date:

Casing Length (ft):

Grout Quantity:

Rig:

Location

Alignment: Station: Offset:

State Plane Zone: Northing:

Latitude: Longitude:

Water Table Data

Zero Hour Water Depth (ft): (Leave Blank if GNE) Zero Hour Water Date: Season Hi Water Depth (ft):

24-Hour Water Depth (ft): (Leave Blank if GNE) 24-Hour Water Date:

Blow Count		Strata					
Depth (ft)	SPT-N	Bottom Depth (ft)	Stratum	Soil Pattern	USCS	AASHTO	Soil Description
8		3				A-2-4	GRAY, TAN - SILTY FINE SAND
10.5		4				A-6	ORANGE - CLAYEY SOIL

FDOTConnect Geotech Data Manager

- Add Types
 - Auger
 - SPT
 - Core
 - Other
- Lab Tests

Add Borehole

Borehole

Borehole Id: SPT 100 Borehole Type: SPT
Elevation (ft): Vertical Datum: Auger
Dttler: Hammer Type: SPT
Boring Date: Casing Length (ft): GROUT Quantity: Rig:

Location

Alignment: Station: Offset: State Plane Zone: None Northing: Easting: Latitude: Longitude:

Water Table Data

Zero Hour Water Depth (ft): (Leave Blank if GNE) Zero Hour Water Date: Season Hi Water Depth (ft): 24-Hour Water Depth (ft): (Leave Blank if GNE) 24-Hour Water Date:

Blow Count Strata

Depth (ft)	SPT-N	Bottom Depth (ft)	Stratum	Soil Pattern	USCS	AASHTO	Soil Description

Lab Tests Save Cancel

FDOTConnect Geotech Data Manager

- Add Lab Test Data

The screenshot shows a software window titled "Lab Tests" with three data input sections, each with a table of columns and an empty data area below. The sections are:

- Sample Data Inputs:**

Sample Number	Start Depth	End Depth	w %	-200	PI	LL	Organic %	D50
- Core Data Inputs:**

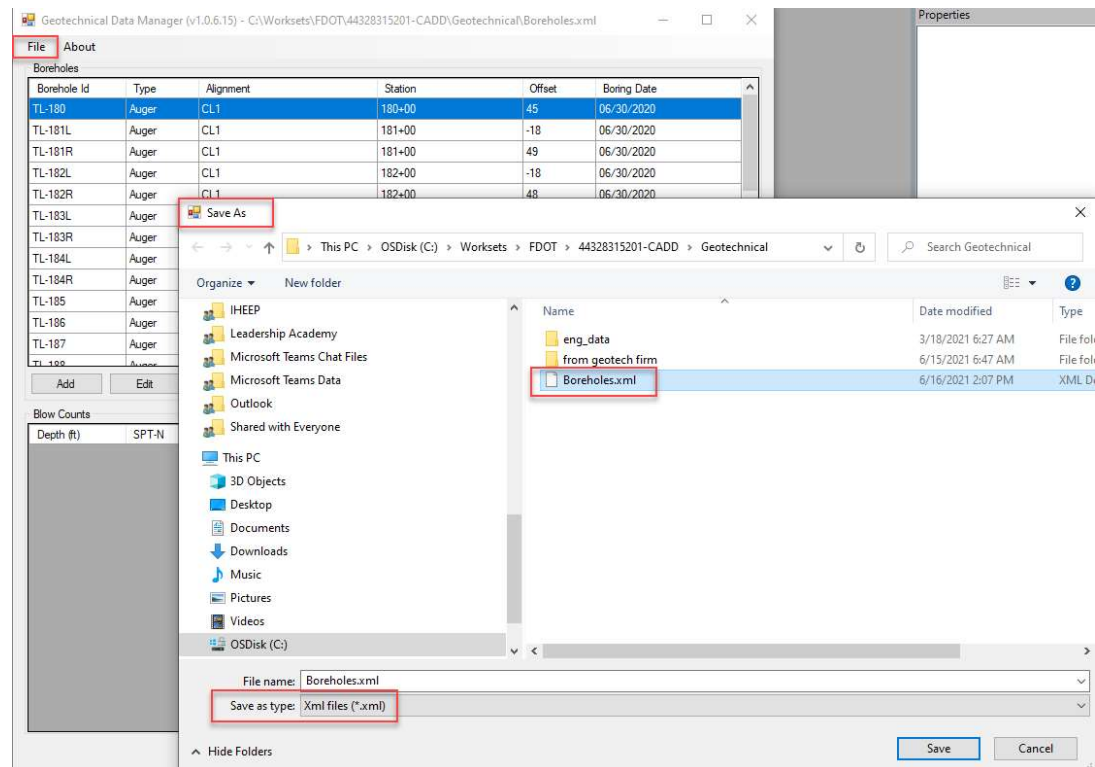
Sample Number	Start Depth	End Depth	REC %	RQD %	Gamma (pcf)	Qu (tsf)	Qt (tsf)	Cr
- Undisturbed Data Inputs:**

Sample Number	Start Depth	End Depth	w %	Gamma (pcf)	Cr	Cc	C alpha	Cv	OCR

At the bottom right of the window, there are "Save" and "Close" buttons.

FDOTConnect Geotech Data Manager

- File > Save As
– Xml file



Now that you have the Borehole Data what do we do?



- Create File
– Roadway

Workset: C:\Worksets\FDOT\44328315201-CADD

Discipline: ROADWAY

File Group: Geotechnical Design Files

File Type:

Base Filename	Description
▶ ABORRD	Auger Borings
CPTSRD	Cone Penetration Test (CPT) Soundings
MBORRD	Mitigation Borings
PBORRD	Pond Borings

Output File:

Base Filename:	Modifier (Optional)	File Sequence #:	Extension:
ABORRD		02	dgn

C:\Worksets\FDOT\44328315201-CADD\geotechnical\ABORRD02.dgn

Output Folder: geotechnical

Seed File: c:\fdotconnect\organization-civil\fdot\seed\FDOT-ORD-Seed2

County: Brevard Coordinate System: FL83-EF

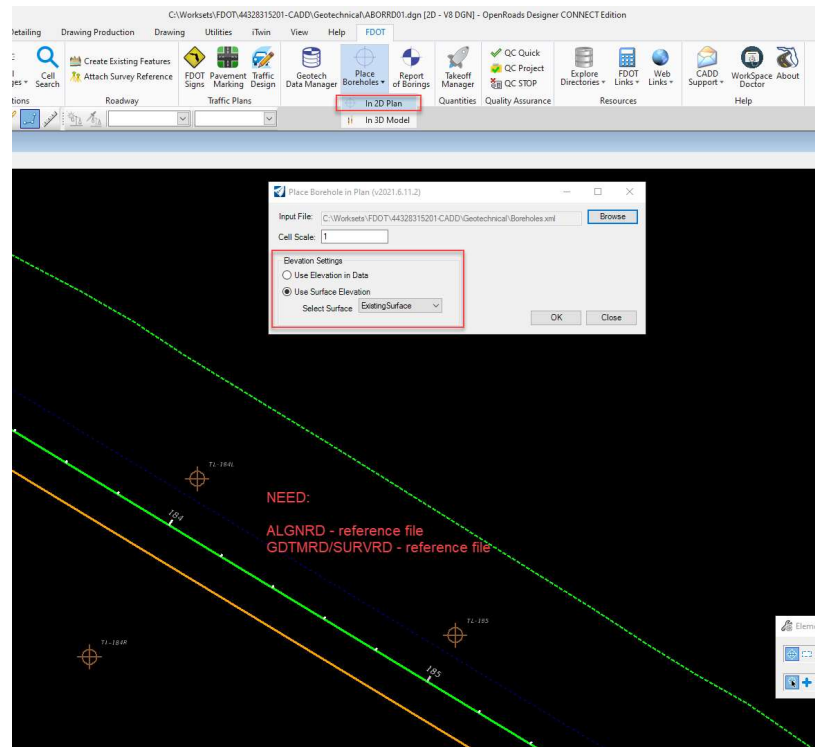
Action:

Referencing in Design Files

- ALGNRD
 - GDTMRD or SURVRD
-

FDOTConnect Place Boreholes

- In 2D Plan



FDOTConnect Place Boreholes

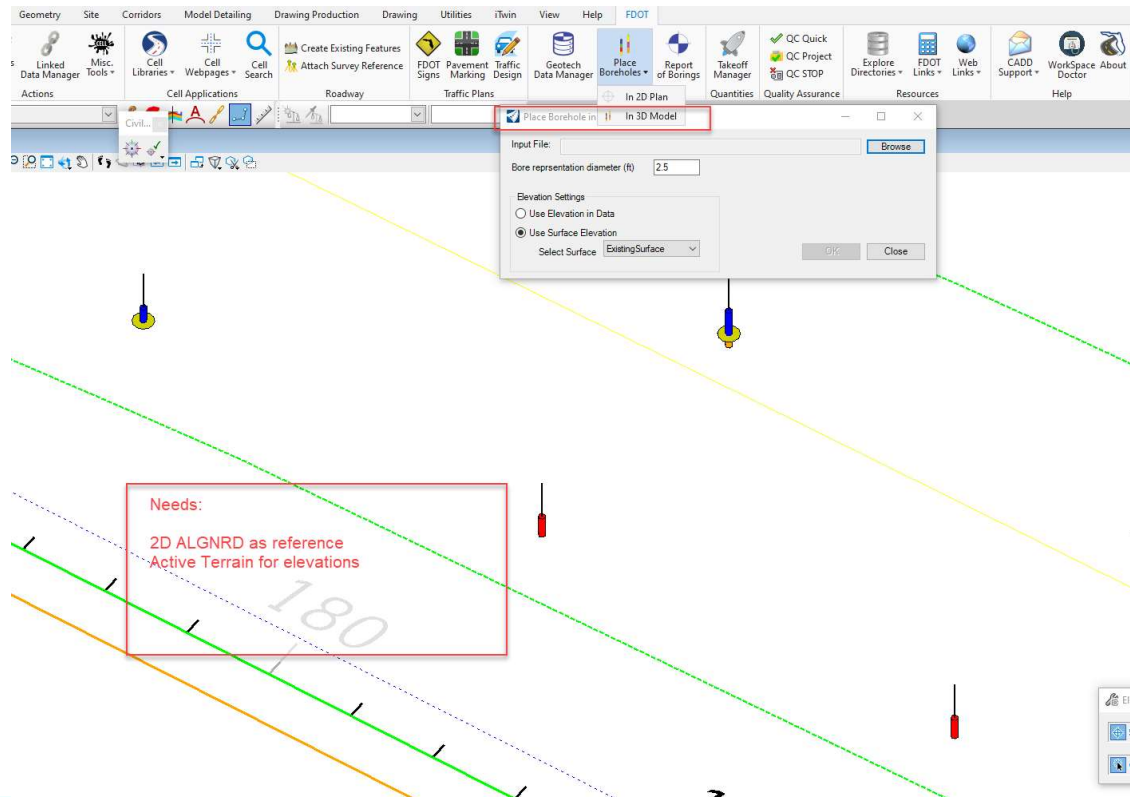
- In 2D Plan
- Adds Item Type Data

The screenshot displays a software interface for placing boreholes. On the left, a 2D plan view shows a green circle with a crosshair representing the borehole, labeled 'TL-181L', positioned near a road labeled '181'. On the right, a 'Properties' window is open, showing the following data:

Borehole	
BoreholeID	TL-181L
Type	Auger
Depth	10.5000
Reference	CL1
Station	181+00
Offset	-18
Northing	463492.928977457
Easting	2468131.19694303
CoordinateSystem	None
Latitude	30°15'53.795854"
Longitude	-82°55'02.322786"
Elevation	155.948112401587
ZeroHour/WaterDepth	GNE
ZeroHour/WaterDate	06/30/2020
SeasonHi/WaterDepth	7
TwentyFourHour/WaterDepth	
TwentyFourHour/WaterDate	
Date	06/30/2020
Driller	
Hammer	Auto
Grout	

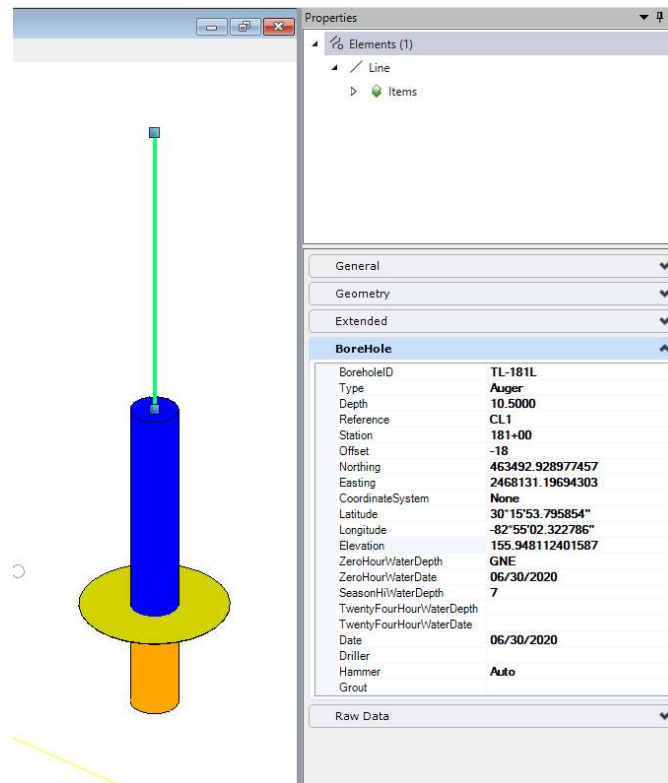
FDOTConnect Place Boreholes

- In 3D Model



FDOTConnect Place Boreholes

- Pin
 - Borehole

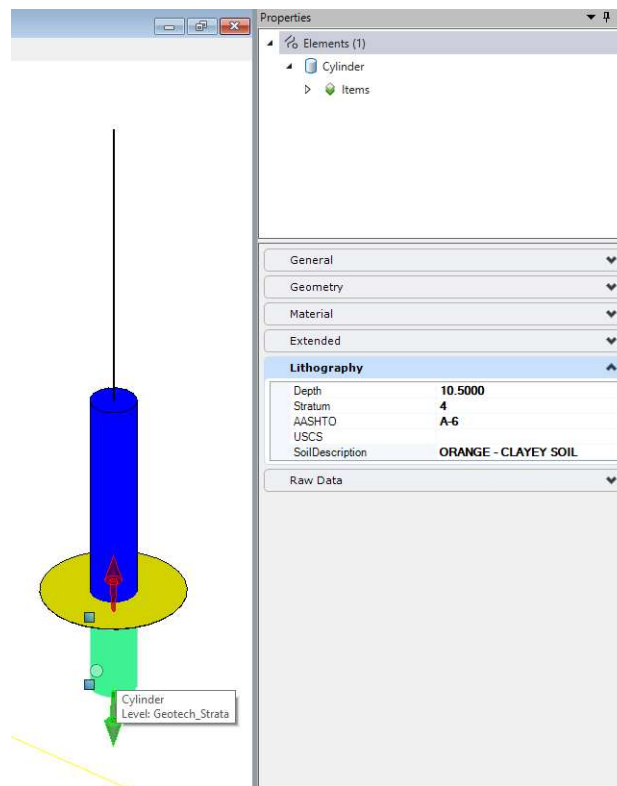


The screenshot displays a 3D model of a borehole in the center. The borehole is represented by a blue vertical cylinder with a yellow circular base and an orange cylindrical section at the bottom. A green vertical line extends from the top of the blue cylinder. To the right of the model is a 'Properties' window. The 'Properties' window has a tree view on the left showing 'Elements (1)' expanded to 'Line', which contains 'Items'. Below the tree view are tabs for 'General', 'Geometry', and 'Extended'. The 'BoreHole' section is expanded, showing a list of attributes and their values.

BoreHole	
BoreholeID	TL-181L
Type	Auger
Depth	10.5000
Reference	CL1
Station	181+00
Offset	-18
Northing	463492.928977457
Easting	2468131.19694303
CoordinateSystem	None
Latitude	30°15'53.795854"
Longitude	-82°55'02.322786"
Elevation	155.948112401587
ZeroHourWaterDepth	GNE
ZeroHourWaterDate	06/30/2020
SeasonHiWaterDepth	7
TwentyFourHourWaterDepth	
TwentyFourHourWaterDate	
Date	06/30/2020
Driller	
Hammer	Auto
Grout	

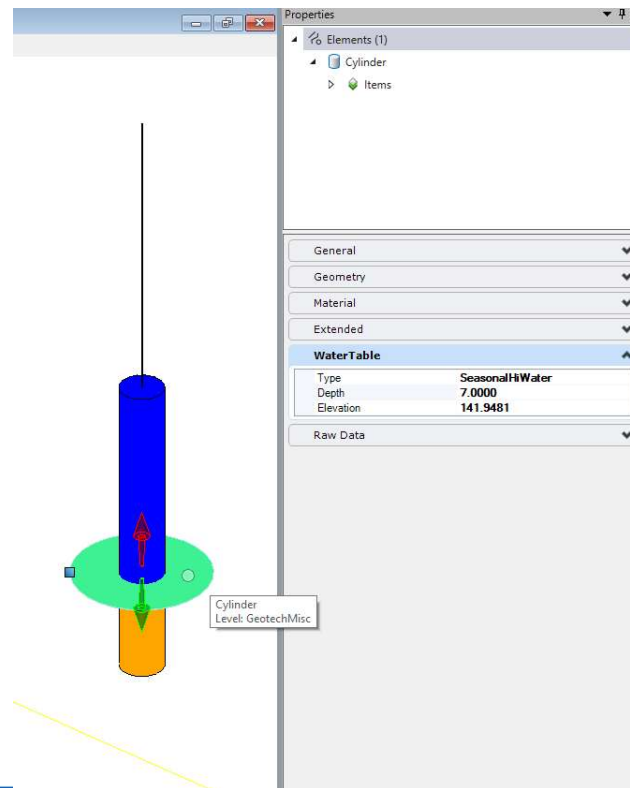
FDOTConnect Place Boreholes

- Strata
 - Colors by Strata



FDOTConnect Place Boreholes

- Water Elev. Disc
 - Yellow SHW
 - 0 Hour
 - 24 Hour



FDOTConnect Report of Boring

- Create File
 - Roadway

Create File (v 2.0)

Workset: C:\Worksets\FDOT\44328315201-CADD

Discipline: ROADWAY

File Group: Geotechnical Sheet Files

File Type:

Base Filename	Description
RPTBRD	Report of Borings
SSUVRD	Soil Survey

Output File:

Base Filename:	Modifier (Optional)	File Sequence #:	Extension:
RPTBRD		01	.dgn

C:\Worksets\FDOT\44328315201-CADD\geotechnical\RPTBRD01.dgn

Output Folder: geotechnical

Seed File: c:\fdotconnect\organization-civil\fdot\seed\FDOT-ORD-Seed2D.dgn

County: Clay Coordinate System: FL83-EF

Action: model create sheet ReportOfBorings

FDOTConnect Report of Borings

- Create File
 - Structures

Create File (v 2.0)

Workset: C:\Worksets\FDOT\44328315201-CADD

Discipline: STRUCTURES

File Group: Other Sheet Files

File Type:

Base Filename	Description
B#Boring	Report of Core Borings
B#BotContourMap	Bottom Contour Map
B#CompTestSetup	Compression Test Setup
B#ConePTGeo	Cone Penetration Test (CPT) Soundings
B#InstruDet	Instrumentation Details
B#LTDet	Load Test Details
B#LTDetDrillShaft	Drilled Shaft Load Test Details
B#LTDetDrillShaftSum	Drilled Shaft Load Test Program Summary
B#LTFrame	Load Test Frame Configuration
B#LTGirderBrace...	Load Test Reaction Girder Bracing Details
B#LTGirderDet	Load Test Reaction Girder Details

Output File:

Bridge

Seq #:	Base Filename:	Modifier (Optional)	File Sequence #:	Extension:
B	Boring		01	.dgn

C:\Worksets\FDOT\44328315201-CADD\geotechnical\BBoring01.dgn

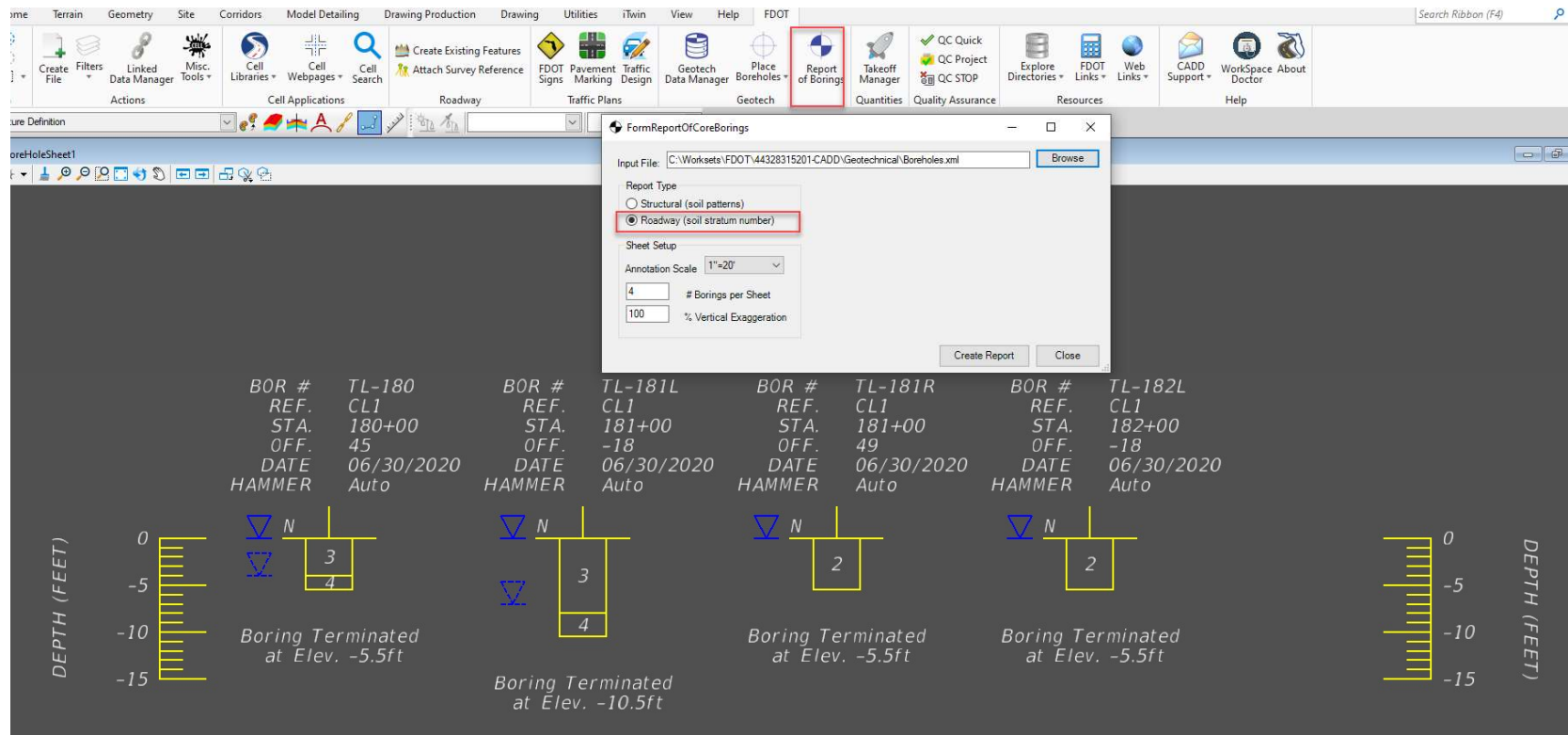
Output Folder: geotechnical

Seed File: c:\fdotconnect\organization-civil\fdot\seed\FDOT-OBM-Struct.

County: Brevard

Action:

FDOTConnect Report of Boring



The screenshot shows the FDOTConnect software interface. The 'Report of Borings' dialog box is open, with the 'Roadway (soil stratum number)' option selected. The report sheet below displays data for four borings: TL-180, TL-181L, TL-181R, and TL-182L. Each boring is represented by a vertical scale from 0 to -15 feet depth, with soil stratum numbers indicated by colored boxes.

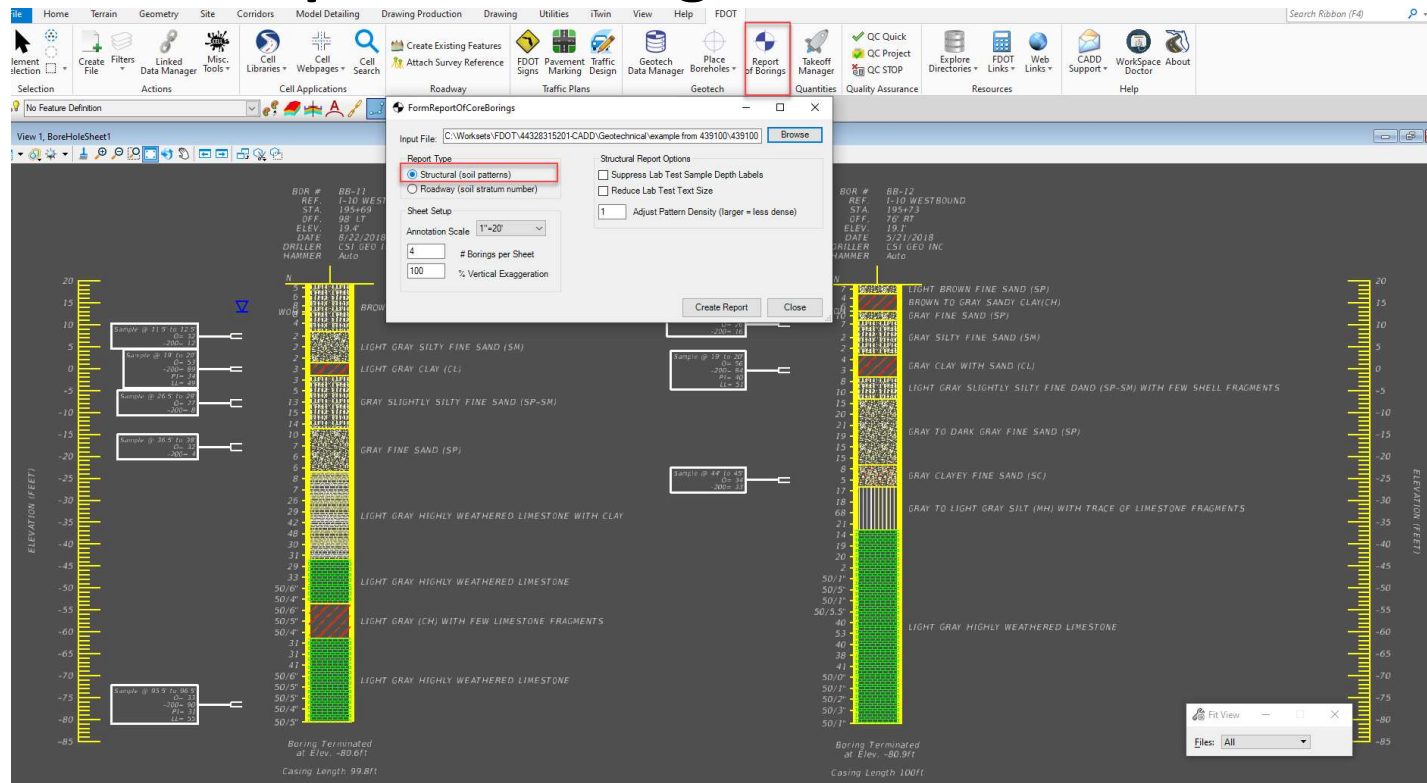
BOR #	TL-180	BOR #	TL-181L	BOR #	TL-181R	BOR #	TL-182L
REF.	CL1	REF.	CL1	REF.	CL1	REF.	CL1
STA.	180+00	STA.	181+00	STA.	181+00	STA.	182+00
OFF.	45	OFF.	-18	OFF.	49	OFF.	-18
DATE	06/30/2020	DATE	06/30/2020	DATE	06/30/2020	DATE	06/30/2020
HAMMER	Auto	HAMMER	Auto	HAMMER	Auto	HAMMER	Auto

Soil stratum numbers for each boring:

- TL-180: 3, 4
- TL-181L: 3, 4
- TL-181R: 2
- TL-182L: 2

Notes: Boring Terminated at Elev. -5.5ft (for TL-180, TL-181R, TL-182L) and Boring Terminated at Elev. -10.5ft (for TL-181L).

FDOTConnect Report of Boring



The screenshot displays the FDOTConnect software interface. The 'Report of Borings' dialog box is open, showing the following settings:

- Input File:** C:\Worksets\FDOT\44328315201-CADD\Geotechnical\example from 439100\439100
- Report Type:** Structural (soil patterns) (selected)
- Structural Report Options:**
 - Suppress Lab Test Sample Depth Labels
 - Reduce Lab Test Text Size
 - Adjust Pattern Density (larger = less dense)
- Sheet Setup:**
 - Annotation Scale: 1"=20'
 - # Borings per Sheet: 4
 - % Vertical Exaggeration: 100

Two boring logs are visible in the background:

- Boring BB-11:** REF: I-10 WEST, STA: 199+09, OFF: 98 LT, ELEV: 19.4, DATE: 8/22/2018, DRILLER: CST GEO INC, HAMMER: Auto. Casing Length: 99.81ft. Termination at Elev: -80.61ft.
- Boring BB-12:** REF: I-10 WESTBOUND, STA: 199+13, OFF: 76 RT, ELEV: 19.1, DATE: 5/21/2018, DRILLER: CST GEO INC, HAMMER: Auto. Casing Length: 100ft. Termination at Elev: -80.91ft.

The logs show soil profiles with various layers such as LIGHT GRAY SILTY FINE SAND (SM), LIGHT GRAY CLAY (CL), GRAY SLIGHTLY SILTY FINE SAND (SP-SM), GRAY FINE SAND (SP), LIGHT GRAY HIGHLY WEATHERED LIMESTONE WITH CLAY, LIGHT GRAY HIGHLY WEATHERED LIMESTONE, LIGHT GRAY (CH) WITH FEW LIMESTONE FRAGMENTS, and LIGHT GRAY CLAY WITH SAND (CL).

DEMO of Tools

Future enhancements
Labeling in Cross Sections
Input Location by Latitude and Longitude

Thank you

**Please send any Questions to
CADD.support@dot.state.fl.us**
