Update: July 20, 2018

**ODOT gINT Library**

**Fence Reports**

On both of the ODOT Standard Fence Reports, STANDARD ODOT FENCE REPORT & STANDARD ODOT FENCE REPORT WITH DESCRS., made the following changes:

- In the boring graphic header, on the PAVEMENT text entity, changed the Text Expression from

  \[
  \text{UCase(<<LITHOLOGY.Description>>)}
  \]

  to

  \[
  \text{UCase(<<Lookup((<<LITHOLOGY.DESCRIPTION>>,<<LITHOLOGY.DEPTH>> = 0)>>))}
  \]

- Also for the PAVEMENT text entity, on the Configuration tab, changed the Output Condition from

  \[
  (<<LITHOLOGY.Depth>> = 0) \text{ AND (<<LITHOLOGY.Graphic>> = PAVEMENT OR BASE) OR (<<LITHOLOGY.Graphic>> = TOPSOIL)}
  \]

  to

  \[
  (<<Lookup((<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = PAVEMENT OR BASE) OR (<<Lookup((<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = TOPSOIL))
  \]

- In the boring graphic header, on the STA. text entity, on the Configuration tab, changed the Output Override Y from

  \[
  \text{If((<<LITHOLOGY.Depth>> = 0) AND ((<<LITHOLOGY.Graphic>> = PAVEMENT OR BASE) OR (<<LITHOLOGY.Graphic>> = TOPSOIL)) and \text{HasData((<<LITHOLOGY.Description>>)},0.21)}
  \]

  to

  \[
  \text{If(((<<Lookup((<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = PAVEMENT OR BASE) OR (<<Lookup((<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = TOPSOIL) AND \text{HasData((<<LITHOLOGY.Description>>)},<<LITHOLOGY.DEPTH>> = 0)}>),0.21)}
  \]
In the boring graphic header, on the BORING ID text entity, on the Configuration tab, changed the Output Override Y from

```
@<<IIf((<<HasData(<<POINT.Station>>)>> OR <<HasData(<<POINT.Offset Direction>>)>>) AND ((<<LITHOLOGY.Graphic>>= PAVEMENT OR BASE) OR (<<LITHOLOGY.Graphic>>= TOPSOIL)) AND
<<HasData(<<LITHOLOGY.Description>>)>>),0.42,<<IIf(<<HasData(<<POINT.Station>>)>> OR <<HasData(<<POINT.Offset Direction>>)>>),0.21,<<IIf((<<LITHOLOGY.Depth>>= 0) AND (<<LITHOLOGY.Graphic>>= PAVEMENT OR BASE) OR (<<LITHOLOGY.Graphic>>= TOPSOIL)) and (<<HasData(<<LITHOLOGY.Description>>)>>),0.21)>>)
```

to

```
@<<IIf((<<HasData(<<POINT.Station>>)>> OR <<HasData(<<POINT.Offset Direction>>)>>) AND
((<<Lookup(<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = PAVEMENT OR BASE) OR(<<Lookup(<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = TOPSOIL) AND
<<HasData(<<LITHOLOGY.DESCRIPTION>>)>>,<<LITHOLOGY.DEPTH>> = 0)>>),0.42,<<IIf(<<HasData(<<POINT.Station>>)>> OR <<HasData(<<POINT.Offset Direction>>)>>),0.21,<<IIf(((<<Lookup(<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = PAVEMENT OR BASE) OR
<<HasData(<<LITHOLOGY.DESCRIPTION>>)>>,<<LITHOLOGY.DEPTH>> = 0)>>),0.21)>>)
```

In the boring graphic header, on the OFFSET text entity, on the Configuration tab, changed the Output Override Y from

```
@<<IIf((<<LITHOLOGY.Depth>>= 0) AND ((<<LITHOLOGY.Graphic>>= PAVEMENT OR BASE) OR (<<LITHOLOGY.Graphic>>= TOPSOIL)) and
<<HasData(<<LITHOLOGY.Description>>)>>,0.21)>>
```

to

```
@<<IIf((<<Lookup(<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = PAVEMENT OR BASE) OR (<<Lookup(<<LITHOLOGY.Graphic>>,<<LITHOLOGY.DEPTH>> = 0)>> = TOPSOIL) AND
<<HasData(<<LITHOLOGY.DESCRIPTION>>)>>,<<LITHOLOGY.DEPTH>> = 0)>>,0.21)>>
```
o In the boring graphic header, on the STA., OFFSET text entity, on the Configuration tab, changed the Output Override Y from

\[@\text{IIf}((\text{Depth} \geq 0) \text{ AND } (\text{Graphic} = \text{PAVEMENT OR}

\text{BASE}) \text{ OR } (\text{Graphic} = \text{TOPSOIL}) \text{ AND}

(\text{HasData(Description)}) , 0.21)\]

\text{to}

\[@\text{IIf}((\text{Lookup(Graphic, Depth} = 0)) = \text{PAVEMENT OR BASE}) \text{ OR } (\text{Lookup(Graphic, Depth} = 0)) = \text{TOPSOIL}) \text{ AND}

\text{HasData(Lookup(DESCRIPTION, Depth} = 0))) , 0.21)\]

o On both of the Vertical Line entities that make up the outside edges of the boring graphic, changed the Top Depth Expression from

\text{<<LITHOLOGY.DEPTH>>}

\text{to}

\text{0}

o Also made this same change to the Vertical Line entity that is the dashed centerline of the boring graphic.

o For the Discrete Graphics vs Depth entity that displays the symbol for WET NON-

PLASTIC samples, on the Configuration tab, changed the Output Condition from

\((\text{HasData(LAB SPECIMEN.LAB Classification)}) \text{ AND } (\text{WC DENSITY.Water.Content} > 25) \text{ AND } (\text{ATTERBERG.Plastic.Limit} < 0.5) \text{ OR}

(\text{HasData(LAB SPECIMEN.LAB Classification)})) \text{ AND } (\text{WC DENSITY.Water.Content} > 19) \text{ AND } (\text{ATTERBERG.Plastic.Limit} < 0.5) \text{ AND}

(\text{LAB SPECIMEN.Visual.Moisture} = \text{"wet")})

\text{to}

\((\text{HasData(LAB SPECIMEN.LAB Classification)})) \text{ AND } (\text{RoundTo(WC DENSITY.Water.Content, 1)} > 25.9) \text{ AND } (\text{ATTERBERG.Plastic.Limit} = 0) \text{ OR}

(\text{HasData(LAB SPECIMEN.LAB CLASSIFICATION)})) \text{ AND } (\text{RoundTo(WC DENSITY.Water.Content, 1)} > 19.9) \text{ AND } (\text{ATTERBERG.Plastic.Limit} = 0) \text{ AND}

(\text{LAB SPECIMEN.LAB Moisture} = \text{"WET")})
User System Data

- Changed the User System Data item, *N60 Calculation* from

  \[
  \text{Calc}((\text{SAMPLE.Blows 2nd} + \text{SAMPLE.Blows 3rd}) \times \text{Lookup(\text{HAMMER.Energy Ratio},\text{POINT.Drill Rig})}) / 60
  \]

  \[
  \text{If}((\text{User System Data.SPT Refusal}) - , \text{CInt(\text{RoundTo}(\text{Calc}((\text{SAMPLE.Blows 2nd} + \text{SAMPLE.Blows 3rd}) \times \text{Lookup(\text{HAMMER.Energy Ratio},\text{POINT.Drill Rig})}) / 60
  \]) - 1)) -
  \]

  to

  \[
  \text{Calc}((\text{SAMPLE.Blows 2nd} + \text{SAMPLE.Blows 3rd}) \times \text{Lookup(\text{HAMMER.Energy Ratio},\text{POINT.Drill Rig})}) > 90, 90, \text{Lookup(\text{HAMMER.Energy Ratio},\text{POINT.Drill Rig})}) / 60
  \]

  \[
  \text{If}((\text{User System Data.SPT Refusal}) - , \text{CInt(\text{RoundTo}(\text{Calc}((\text{SAMPLE.Blows 2nd} + \text{SAMPLE.Blows 3rd}) \times \text{Lookup(\text{HAMMER.Energy Ratio},\text{POINT.Drill Rig})}) / 60
  \]) - 1)) -
  \]

Boring Logs

On all of the ODOT Standard Boring Logs, STANDARD ODOT SOIL BORING LOG (8.5 X 11), STANDARD ODOT SOIL BORING LOG (11 X 17), STANDARD ODOT LOG W/ SULFATE (8.5 X 11), and STANDARD ODOT LOG W/ SULFATE (11 X 17), made the following changes:

- For the WATER ELEV. Text vs Depth entity, changed the Output Condition from

  \[
  (\text{WATER LEVELS.ITEMKEY} = 1) \text{ or } (\text{WATER LEVELS.ITEMKEY} = 3)
  \]

  to

  \[
  ((\text{WATER LEVELS.ITEMKEY} = 1) \text{ or } (\text{WATER LEVELS.ITEMKEY} = 3)) \text{ and } (\text{WATER LEVELS.Show})
  \]
Boring Log Blocks

On the Log Block, *SB Header PG 1*, made the following changes:

- For the Energy Ratio (%) Text entity changed the Text Expression on the Associated Text tab, from

  
  \[
  \text{\textless \textless \text{Lookup}(\textless \textless \text{HAMMER.Energy Ratio}\text{\textgreater},\text{\textless POINT.Drill Rig\textgreater})\textgreater}\]

  to

  
  \[
  \text{\textless \textless \text{IIf}(\textless \textless \text{Lookup}(\textless \textless \text{HAMMER.Energy Ratio}\text{\textgreater},\text{\textless POINT.Drill Rig\textgreater})\textgreater > 90,"90\text{"},\text{\textless \textless \text{Lookup}(\textless \textless \text{HAMMER.Energy Ratio}\text{\textgreater},\text{\textless POINT.Drill Rig\textgreater})\textgreater)}\textgreater]\]

Text Tables

Added two new Text Table Reports, *GB1 Boring Logs Entry Tab* & *GB1 Subgrade Analysis Tab* for use with the GB 1 spreadsheet, *GB1_Subgrade_Analysis.xlsm*.

Material

Under Symbol Design, removed the following graphics from the Material tab:

- PEAT FIBROUS
- PEAT FINE-TEXTURED
- PEAT LOAMY
- PEAT MARLY
- PEAT SEDIMENTARY
- PEAT WOODY
- WEATHERED CLAYSTONE
- WEATHERED DOLOMITE
- WEATHERED LIMESTONE
- WEATHERED OTHER BEDROCK
- WEATHERED SANDSTONE
- WEATHERED SHALE
- WEATHERED SHALE AND LIMESTONE
- WEATHERED SILTSTONE

Bitmap Symbols

Updated the Bitmap Symbol, *OHDOT LOGO* to comply with the ODOT Branding Initiative.

You can download the revised gINT Library file and current Data Template file (no changes for this Quarter) from the ODOT Office of Geotechnical Engineering website at:

http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical/Pages/gINTFiles.aspx
The July 2018 update represents the latest version of the gINT Library and Data Template files. The files are subject to change with future updates.