INROADSALL HISTORY

12-20-16: Updated INROADSALL.EXE

GDOT Style Sheets

- Added Style Sheet – GDOT RailRoad RW Table.xsl

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT RailRoad RW Table.pdf

10-15-16: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – The feature style TOPO_E_TSW was changed to depict sidewalk edges, instead of centerlines. As a result, it now Triangulates by default.
- **XIN File** – The feature style TOPO_E_POOL was changed to not Triangulate by default and is no longer an Interior Feature Type.
- **XIN File** – Two new Feature Selection Filters have been added to find features in the DTM that are either triangulating when they should not be (based upon the feature style used), or are not triangulating when they should be. These new filters are: **Triangulate=NO (should be YES)** and **Triangulate=YES (should be NO)**.
- **XIN File** – The feature styles TOPO_E_SBNCHMK, TOPO_E_SLCD, TOPO_E_SLCM and TOPO_E_SNGSCM below were updated to expand the annotation in the TOPO.DGN files. The Survey Feature: Custom Operations section was expanded to include annotation of the Northing, Easting and Elevation of these points. This additional annotation will now show up in the TOPO.DGN files and also in Section 11 and/or Section 13 of plans (if TOPO.DGN is referenced).
- **XIN File** – A new Geometry Selection Filter Preference, called **Survey Control Delta Annotation**, has been added to aid in using the new Style Sheet (*GDOT Survey Control Delta Annotation Report*). This Filter Preference will limit the COGO Points to only those feature styles needed for Plans Reproduction: TOPO_E_SNGSCM, TOPO_E_SLCM, TOPO_E_SLCD, and TOPO_E_SBNCHMK.
- **XIN File** – The feature style PROP_E_BGMD was added to the Survey Style Filter: Property and Alignment Codes. The Numeric Code was changed from 0 to 135.

GDOT Style Sheets

- Added Style Sheet – GDOT Survey Control Delta Annotation Report.xsl

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT Survey Control Delta Annotation Report.pdf

4-29-16: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – Added numerous Drafting Notes which are summarized and detailed in the InRoads Workflow Processes document (see *Workflow Process 9: Using Drafting Notes to Annotate Plans/Profiles*).
- **XIN File** – Added the following Named Symbologies for using Drafting Notes, so that leader lines and text of the Drafting Notes are all on the same level:
  - **ENVE_P_ORNG-FBarrier-Draft_Note**
  - **MAIN_P_Appr-Slab-Drafting_Note**
  - **MAIN_P_Barrier-Wall-Draft-Note**
  - **MAIN_P_Beg-End-Const-Draft_Note**
  - **MAIN_P_Bridge-Drafting_Note**
  - **MAIN_P_Guardrail-Drafting_Note**
  - **MAIN_P_Int_Labels-Drafting_Note**
  - **MAIN_P_SIDE_RD-Label-Draft_Note**
  - **REQD_P_DWESMT-Drafting_Note**
  - **REQD_P_DWESMT-Pnt#-Draft_Note**
  - **REQD_P_PESMT-Drafting_Note**
  - **REQD_P_PESMT-Pnt#-Drafting_Note**
  - **REQD_P_REQD-RW-Drafting_Note**
  - **REQD_P_REQD-RW-Pnt#-Draft_Note**
  - **REQD_P_RWRM-Drafting_Note**
  - **REQD_P_TESMT-Drafting_Note**
  - **REQD_P_TESMT-Pnt#-Drafting_Note**
- **XIN File** – Under *Project Options*, changed the *Abbreviations* as follows. Removed the minus sign for the Left Offset Prefix. Added a Left Offset Suffix of **' LT** and a Right Offset Suffix of **' RT**. This change helps to automate the usage of Drafting Notes to annotate Station-Offsets.

1-15-16: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – Various updates/revisions. (See update/revision list in the Table depicted below).
- **Survey_Data_Processing_InRoads_QA PDF** – Updated the Survey Data Processing InRoads QA form to include additional items/tasks for the Survey QA Check process.

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT COGO Point Stakeout Report.pdf

GDOT Style Sheets

- Added Style Sheet – GDOT COGO Point Stakeout Report. Xsl

❖ New preferences were created for generating cross section and profile sheets that utilize the Pre drawing number sheet cells. The names of these new preferences are:

- Narrow 10h 10v PRE Drawing #'s
- Wide 10h 10v PRE Drawing #'s
- 20 Scale Double_PRE Drawing #'s

- 20 Scale Single_PRE Drawing #'s
- 50 Scale Single_PRE Drawing #'s
- 50 Scale Double_PRE Drawing #'s

10-15-15: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** –Various updates/revisions. (See update/revision list in the Table depicted below).

❖ The command Evaluation>Sight Visibility>Surface Visibility was revised to remove the preference 'Surface Visibility' and replace it with 3 new preferences. The preference 'ISD – Car' with an object height of 3.5' and an eye height of 3.5', the preference 'ISD – Truck' with an object height of 3.5' and an eye height of 7.6' and the preference 'SSD' with an object height of 2.0' and an eye height of 3.5'.

7-31-15: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** –Various updates/revisions. (See update/revision list in the Table depicted below).

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT Point Description Counter.pdf
- Added Style Sheet Help File – GDOT Point Summary With Stations.pdf
- Revised Style Sheet Help File – GDOT Earthwork Volumes Report.pdf
- Revised Style Sheet Help File – GDOT End-Area Report-Standard.pdf
- Revised Style Sheet Help File – GDOT End-Area Report-Compressed.pdf
- Revised Style Sheet Help File – GDOT Feature Volumes Report.pdf
- Revised Style Sheet Help File – GDOT GPS Grading Report.pdf

GDOT Style Sheets

- Added Style Sheet – GDOT Point Description Counter. xsl
- Added Style Sheet – GDOT Point Summary With Stations. xsl
- Revised Style Sheet – GDOT End-Area Report-Standard. xsl
- Revised Style Sheet – GDOT End-Area Report-Compressed. xsl
- Revised Style Sheet – GDOT GPS Grading Report. xsl

❖ The filter TOPO.dgn was edited to include the Feature Style TOPO_E_TBCAP
❖ The Feature Style SIGN_P_MISC was added at the request of design. It is on a non-plotting level and is intended to be used to help quantify proposed signs.

❖ The Feature Style SIGN_P_MISC will automatically display the point number and point description.

4-30-15: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** –Various updates/revisions. (See update/revision list in the Table depicted below).

- **ITL File** – The ITL file was updated to reflect revisions to the GACUTFIL component to change the slope constraint to a vector offset constraint for the following points. The change was made to simplify sloping of the shoulder.
  - GRL_T_PlasticBlock_or_W27”
  - GRL_W31”
  - GRL_T_MetalBlock

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT Parcel Check Report.pdf

GDOT Style Sheets

- Added Style Sheet – GDOT Parcel Check Report. xsl

❖ Edited the filter ‘UTLE Annotation’ to correct the include all setting to exclude all so that all feature styles would be excluded from annotation except Alpha code TMPR and SMI code 235. This filter is used with the command ‘Survey>View Survey Data>Write Survey Data to Graphics’.
❖ Added a new filter preference named ‘PROP_E_PAR’. This filter preference is used with the command ‘Tools>XML Reports>Geometry’ when creating the style sheet ‘GDOT Parcel Check Report’ for survey QA checks.
❖ The preferences under the command Geometry>View Geometry>Curve Set Annotation were revised to display the northing and easting coordinates to four decimal places. The preferences affected are ACL, CONSTCL, DETCL and SIDECL.
❖ The filters ‘Breakline=Random’ and ‘Random=Breakline’ were edited to ensure the feature styles TOPO_E_DJB, TOPO_E_DMISC and TOPO_E_TMISC were not be reported when either filter was being used to generate a report. This is because these feature styles are not standard GDOT feature styles and should not be used by anyone. They are in the XIN file only because of backwards compatibility and because they were in the list of CAICE feature codes.
❖ The advanced surface importer for Mapping was edited to include TECP to the list of items imported into InRoads.

10-31-14: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** –Various updates/revisions. (See update/revision list in the Table depicted below).

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT HEC RAS (Wide Floodplain) Cross Section Geometry Report.pdf
- Added Style Sheet Help File – GDOT Roadway Design Milling Report.pdf
- Added Style Sheet Help File – GDOT SUE Utility QL-A Location Report.pdf

GDOT Style Sheets

- Added Style Sheet – GDOT HEC RAS (Wide Floodplain) Cross Section Geometry Report. xsl
- Added Style Sheet – GDOT Roadway Design Milling Report. xsl
- Added Style Sheet – GDOT SUE Utility QL-A Location Report.xsl

- The 'random = breakline' filter was edited to exclude the additional breaklines DBOD and DTOD.
- Added the TEAD Feature Code to the Advanced Surface Importer for Photogrammetry.
- Edited the preferences SE LEFT and SE RIGHT due to a bug in InRoads. SE LEFT was displaying on the Right side of the roadway and SE RIGHT was displaying on the Left side of the roadway.
- Created the following new Named Symbologies and/or Feature Styles
- Edited the UTLE.DGN filter to add the following Feature Styles

UTLE_E_UUSTRPOL	UTLE_E_UUPGA	UTLE_E_UUMHE
UTLE_E_UUELBOX	UTLE_E_UUYLE	UTLE_E_UUMHSS
UTLE_E_UUOEL	UTLE_E_UUYLG	UTLE_E_UUMHSSF
UTLE_E_UUOTL	UTLE_E_UUWM	UTLE_E_UUSSL
UTLE_E_UUPP	UTLE_E_UUWV	UTLE_E_UUGM
UTLE_E_UULP	UTLE_E_UUFH	UTLE_E_UUNGV
UTLE_E_UUTP	UTLE_E_UUMHST	UTLE_E_UUNGVP
UTLE_E_UUTPD	UTLE_E_UUMHSTF	UTLE_E_UUNGLM
UTLE_E_UUGP	UTLE_E_UUMHT	UTLE_E_UTRCR
		UTLE_E_UTRCL
		UTLE_E_UTSATDSH
		UTLE_E_UTMPR
		UTLE_E_UXX

- Created the following new Named Symbologies and/or Feature Styles:

  - UTLE_E_UUTSB
  - UTLE_E_UUPCL

- UTLE_E_UUFM
- UTLE_E_SUETOP
- UTLE_E_SUEBOT

❖ Created a preference named SUE for the annotation of Subsurface Utility features on profiles.

❖ Created a new Survey Style filter named UTLE Annotation that includes the following feature styles
  - TOPO_E_TMPR (Numeric code 235)
  - UTLE_E_UTMPR (Alpha code UTMPR)

❖ Edited the TOPO Annotation Survey Style filter to remove the following feature styles TOPO_E_TMPR

❖ Edited the TOPO.DGN filter to remove the following feature styles
  - TOPO_E_TRCL
  - TOPO_E_TRCR
  - TOPO_E_TSATDSH

❖ Edited the Random=Breaklines preferences to exclude the following additional features
- UTLE_E_SUEBOT
- UTLE_E_SUETOP
- UTLE_E_UTRCL
- UTLE_E_UTRCR
- UTLE_E_UUELBOX
- UTLE_E_UUOEL
- UTLE_E_UUOTL
- UTLE_E_UUTSB
- UTLE_E_UXXB

❖ Edited the Breaklines = Random preference to exclude the following additional features

UTLE_E_SUEBOT	UTLE_E_UUMHE	UTLE_E_UUSTRPOL
UTLE_E_SUETOP	UTLE_E_UUMHSS	UTLE_E_UUTP
UTLE_E_UTMPR	UTLE_E_UUMHSSF	UTLE_E_UUTPD
UTLE_E_UTSATDSH	UTLE_E_UUMHST	UTLE_E_UUWM
UTLE_E_UUFH	UTLE_E_UUMHSTF	UTLE_E_UUWV
UTLE_E_UUGM	UTLE_E_UUMHT	UTLE_E_UUYLE
UTLE_E_UUGP	UTLE_E_UUNGLM	UTLE_E_UUYLG
UTLE_E_UUPGA	UTLE_E_UUNGV	UTLE_E_UXXA
UTLE_E_UUPP	UTLE_E_UUNGVP	UTLE_E_UUPCL
UTLE_E_UULP	UTLE_E_UUSSL	UTLE_E_UUFM

❖ Created a new preference named XSEC TEXT-SUE for the annotation of Subsurface Utility features on the cross sections.

❖ Edited the feature styles UTLE_E_SUETOP and UTLE_E_SUEBOT to check the 'Draw line to previous same code'

07-31-14: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** –Various updates/revisions. (See update/revision list in the Table depicted below).

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT Feature Report.pdf

GDOT Style Sheets

- Added Style Sheet – GDOT Feature Report. xsl

❖ Added a Filter named 'Breaklines = Random' which filters features which are normally brought in with a feature type of breakline that have been brought into the DTM as a feature type of random. This is useful in identifying features that were collected in the field in which the ST control code may have been inadvertently left out.
❖ Added a Filter named 'Random=Breakline' which filters features which are normally brought in with a feature type of Random that have been brought into the DTM as a feature type of Breakline. This is useful in identifying features that were collected in the field in which the ST control code may have been inadvertently added. ❖ The Survey Style Filter for 'TOPO ANNOTATION' was edited to include annotation for the feature styles TBLD, TBLDRL, THCR, THRL, TMHCR, and TMHRL. The survey field Crews will now be collecting attributes for these feature styles at the request of the Design office for labeling of Building Descriptions on the R/W plans.
❖ All TOPO feature styles (except TRP) with a feature type of 'Random' were changed to create a separate feature for each item rather than including all items in a single feature. This is to simplify field collection and ensure each feature has its own description field.
❖ The feature style TOPO_E_SBNCHMK was edited to include a custom operation so that it could be annotated in the TOPO.dgn file. The filter 'Topo Annotation' was edited to include this feature style and the filter 'TOPO.dgn' was edited to remove this feature style so duplicates would not be in the final TOPO.dgn deliverable. This change was requested by survey.
❖ Custom operations were added for the feature styles TBLD, TBLDRL, THCR, THRL, TMHCR, and TMHRL. The custom operations allow topo annotation to be displayed on the TOPO.dgn file. This was requested by location so building labels will annotate on the R/W plans.

4-07-14: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – Various updates/revisions. (See update/revision list in the Table depicted below).
- **ITL File** – The ITL file was updated to reflect revisions to the following components to either add a safety edge according to Construction Detail P-7 or vertical face paving according to Construction Detail S-4b:
  - Inside Shoulder
  - Outside Shoulder – Full Depth
  - Outside Shoulder – Partial Depth
  - Paving Under Guardrail
  - Concrete Lane - Outside

Component Description Documentation

- The following Component Description Documents were revised to reflect the above changes:
  - Inside Shoulder
  - Outside Shoulder – Full Depth
  - Outside Shoulder – Partial Depth
  - Paving Under Guardrail
  - Concrete Lane - Outside

❖ A Preference named Driveway Profiles was created for the commands 'Create Profile' and 'Annotate Profile' for use in creating Driveway Profile sheets when horizontal and vertical alignments for driveways have been created.
❖ Set up the symbology for Plan Point and Plan Line for the Named Symbology MAIN_P_Details-Begin-End-Const-
❖ 3 new named symbologies were created for the Sight Visibility Tools. o MAIN_P_SightDistance-Green o MAIN_P_SightDistance-Yellow o MAIN_P_SightDistance-Red ❖ 2 new preferences were created for the Sight Visibility Tools. o Roadway Visibility o Surface Visibility
❖ The Feature Style PROP_E_PCF was edited so that attributes could be collected in the field and they will display in InRoads. ❖ Added the Survey Style Filter 'Prop Annotation' for the display of attributes on the Feature Style PCF.
❖ The 'GDOT' Preference located under the command 'Survey-Survey Data to Surface' was edited to change the curve stroking mode from 'Horizontal and Vertical' to 'Horizontal Only'
❖ Under the command 'Survey-Survey Data to Geometry', a preference named 'GDOT' was added that sets the curve stroking mode to 'Horizontal Only' and Description to 'Use Attributes'.

1-13-14: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – Various updates/revisions. (See update/revision list in the Table depicted below).
- **ITL File** – The ITL file was updated to reflect revisions to the following:
  - the Type 2S, Type 6S and the four Parapet Retaining Wall templates have been updated with unique Feature Styles to facilitate creation of Wall Envelopes/Profiles.
  - The Type 2S with 2:1 Fill and Type 2S with 4:1 Fill templates have been consolidated into one template named Type 2S.
  - Seven new templates for Gravity Type Wall have been added which include unique Feature Styles to facilitate creation of Wall Envelopes/Profiles.

Component Description Documentation

- The following Component Description Documents were added/revised:
  - Gravity Wall
  - TP 2S Barrier
  - TP 6s Barrier
  - TP P1, P2 & P3 Parapet Retaining Wall

❖ Added the following new feature styles at the request of Location. ○ **TOPO_E_DBOD** ○ **TOPO_E_DTOD** ❖ Edited the **TOPO.DGN** filter to include the new feature styles above.
❖ Edited the feature styles **MAIN_P_CONSTCL** and **MAIN_P_SIDECL** so the bearing would be to 0.1" when displayed.
❖ A preference named **USACoE_404_Permit** was added to the 3 commands listed below for use in creating a Stream Profile and Stream Cross Sections. ○ Geometry > View Geometry > Stationing ○ Evaluation > Profile > Create Profile ○ Evaluation > Cross Section > Cross Sections ❖ The point symbology of the feature style TOPO_E_SBF for Plan, Profile and Cross Section views was changed from a cross to a square to differentiate from feature style TOPO_E_SXS. ❖ The feature style TOPO_E_SBF was changed from an un-triangulated random feature type to an un-triangulated breakline feature type so that it can be displayed as a continuous line in profile views.
❖ Added a new Preference called **WallProfiles** under Evaluation>Profile>Annotate Feature in Profile. This new Preference is used to annotate the elevations of major stations for a Wall Envelope every 50' along the axis. ❖ Added new Feature Style MAIN_P_WALL-PROF-Exist-Grd-TP6 specifically for Type 6 Concrete Side Barriers, used mainly for developing Wall Envelopes. ❖ Modified the Profile Text Symbology for the Feature Style MAIN_P_Barrier-Retain-Wall to rotate 0° in order to facilitate annotating Wall Envelopes/Profiles. ❖ Modified the Profile Text Symbology for the following Feature Styles to rotate 90° and also changed some of the Offsets, in order to facilitate annotating Wall Envelopes/Profiles: ○ MAIN_P_WALL-PROF-Top-of-Wall (Wall Profile – Top of Wall) ○ MAIN_P_WALL-PROF-Bottom-of-Wall (Wall Profile – Bottom of Wall)

○ MAIN_P_WALL-PROF-Top-of-Footing (Wall Profile – Top of Footing) ○ MAIN_P_WALL-PROF-Finish-Grd-BoW (Wall Profile – Finished Ground line at Back Face of Wall) ○ MAIN_P_WALL-PROF-Finish-Grd-FoW (Wall Profile – Finished Ground line at Front Face of Wall) ○ MAIN_P_WALL-PROF-Existing-Grd (Wall Profile – Existing Ground line or Backfill Slope Tie-in)

10-21-13: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – Various updates/revisions. (See update/revision list in the Table depicted below).

❖ Corrected the Feature Style **TOPO_E_TFE** so that the Points are depicted when viewing Surface Features.
❖ The Survey options **20 Scale** and **50 Scale** preferences were edited so when the Survey>View Survey Data> Symbols, Names, Codes, Elevations, Errors and Notes options are checked, the point names will be visible. The current sizes of .15 and .375 are displaying too small to be visible. They were changed to 10 and 10.
❖ The named symbologies **MAIN_P_SIDECL**, **MAIN_P_SIDECL-Brng**, **MAIN_P_SIDECL-Curve-Data**, **MAIN_P_SIDECL-Tic-Sta** and the preferences **SIDECL** and **SIDECL 20 Scale,** located in the commands Geometry>View Geometry>Station and Curve Set Annotation, were edited to display elements on the new levels **MAIN_P_SIDECL-TIC-Sta-Cell**, **MAIN_P_SIDECL-Tic-Sta-Line**, **MAIN_P_SIDECL-PC-PT-Sta-Ldr-Cell**, **MAIN_P_SIDECL-PC-PT-Sta-Ldr-Line**, and **MAIN_P_SIDECL-Curve-Data-Cell**.
❖ The Plan and Profile Generator preferences named **20 Scale Double Profile** and **50 Scale Double Profile** were edited to make a correction in the way double profiles are displayed. Double profiles will now be displayed with the lowest stationing on top and the highest stationing at the bottom. This was done in order to maintain consistency with the way double profiles have traditionally been displayed in the past at GDOT.
❖ Changed the Point Named Symbology Symbols of the following Feature Styles from Triangles to Plus Signs: MAIN_P_Barrier-Median-Side, MAIN_P_Barrier-Retain-Wall and MAIN_P_Barrier-Sound-Wall.

09-03-13: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – The XIN File was updated to include new Feature Styles. The Feature Styles **TOPO_E_SBF** (Stream Bank Full) and **TOPO_E_SXS** (Stream X- Section) were added in order to collect these items for the USACE 404 Permit. Both Feature Styles are non-triangulated 3D points that go to the DTM and indicate where Stream Cross Sections need to be created and where the Stream Bank-Full has been located by the Ecologist.

07-15-13: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – The XIN File was revised to include new codes for the Photogrammetry Softcopy software. The 'Import Surface Advanced' command was also set up for the new Photogrammetry Softcopy Mapping processes. (See update/revision list in the Table depicted below for detailed information).

GDOT Style Sheet Documentation

- Revised Style Sheet Help File – GDOT Surface Check Report.pdf to correct a typo error depicting 'Imperial' units instead of 'US Survey Foot' units.

GDOT Style Sheets

- The **GDOT RW Table.xsl** Style Sheet was edited to correct an error with the decimal places on the last point listed in the table. The last point was only reporting to one decimal place while all other points were reporting to two decimal places. The last point was corrected to report to two decimal places.
- The **GDOT Surface Check Report.xsl** was edited to correct the units depicted in the report from "Imperial" to "US Survey Foot". Only the text in the header was incorrect.

❖ Edited the Named Symbology for the following feature styles to look at the new plan view cells that were created for mapping. ❖ TOPO_E_UFH TOPO_UFH ❖ TOPO_E_TSATDSH TOPO_TSAT ❖ TOPO_E_UYLE TOPO_UYLE ❖ TOPO_E_UYLG TOPO_UTLG ❖ TOPO_E_UMHSSF TOPO_UMHSSF ❖ TOPO_E_UMHSTF TOPO_UMHSTF
❖ Edited the preference '**Prop.dgn Points**' to include the feature styles **PROP_E_ACL** and **PROP_E_ACL-PC-PT**. This preference is used with the 'View Horizontal Annotation' command when creating the PROP.dgn file for delivery to the designer.
❖ Set up the 'Import Surface Advanced' command with the Rule Set Name 'GDOT Mapping'. This is for use by the photogrammetry department to import 3d MicroStation files created by the new summit mapping software.
❖ Edited the feature style **TOPO_E_TRP** so that the plus symbol was displayed rather than the TIC1 cell. This was done to increase viewing speed of TRP points. The plus symbol looks very similar to the TIC1 cell. ❖ Edited the named symbology for the feature style **TOPO_E_TCOR** so that the new profile and cross section levels for this item would be used.
❖ Added Feature Styles and Named Symbology for the following: ❖ MAIN_P_WALL-PROF-Top-of-Wall (Wall Profile – Top of Wall) ❖ MAIN_P_WALL-PROF-Bottom-of-Wall (Wall Profile – Bottom of Wall) ❖ MAIN_P_WALL-PROF-Top-of-Footing (Wall Profile – Top of Footing) ❖ MAIN_P_WALL-PROF-Finish-Grd-BoW (Wall Profile – Finished Ground line at Back Face of Wall) ❖ MAIN_P_WALL-PROF-Finish-Grd-FoW (Wall Profile – Finished Ground line at Front Face of Wall) ❖ MAIN_P_WALL-PROF-Existing-Grd (Wall Profile – Existing Ground line or Backfill Slope Tie-in)

- Edited the named symbology for the feature style **TOPO_E_TCOR** so that the new profile and cross section levels for this item would be used.
- Added Feature Styles and Named Symbology for the following:
    - TSTP – White line Stripping (Breakline to be included in triangulation)
    - TRIVER – River (Interior boundary)
    - FNDN – Foundation (Interior boundary)
    - RUIN – Ruins (Breakline to be included in triangulation)
    - POOL – Swimming Pool (Interior boundary)
    - TLAKE – Lake (Interior boundary)
    - TEL – Emergency Lane (Breakline to be included in triangulation)
    - TCOR – Crown of Road (Breakline to be included in triangulation)

The symbol for the TRP points were changed from a circle to a cell named Tic1 which looks like a plus symbol.

04-08-13: Updated INROADSALL.EXE

Updated: Standard Files:

- **XIN File** – The display scale of the cells was changed from .014 to .14 for the Feature Styles TOPO_E_TSC and TOPO_E_TKMP.
- **ITL File** – The ITL file was updated to reflect a revision to the TP P1, P2 & P3 Parapet Retaining Wall templates to correct a conflict with varying slopes of the active surface.

Component Description Documentation

- The following Component Description Documents were revised:
    - TP P1, P2 & P3 Parapet Retaining Wall with 2to1 Back Slope
    - TP P1, P2 & P3 Parapet Retaining Wall with 3to1 Back Slope
    - TP P1, P2 & P3 Parapet Retaining Wall with 4to1 Back Slope
    - TP P1, P2 & P3 Parapet Retaining Wall with 6to1 Back Slope

02-01-13: Released INROADSALL.EXE – Initial Select Series 2 Version

InRoads ALL.exe was renamed from InRoads ALLV8i.exe to InRoadsALL.exe. This version of InRoadsALL.exe works on InRoads Select Series 2/InRoads V8i versions as well as Windows 7 (32/64 bit) and Windows XP Operating Systems.

Updated: Standard Files:

- **XIN File** – The XIN file (and associated Preferences) was updated to work in InRoads Select Series 2 and InRoads V8i. The XIN file was also updated to work in both Windows 7/Windows XP. The XIN file was renamed to GDOT_Standard V8i_SS2.xin (See update/revision list in the Table depicted below).
- **ITL File** – The ITL file was updated to work in InRoads Select Series 2 and InRoads V8i. The ITL file was also updated to work in both Windows 7/Windows XP.
- **MDB File** – Added GDOT (PI#) Pay Item Database. mdb for use in Quantity Manager.

GDOT Style Sheet Documentation

- Revised Style Sheet Help File – GDOT GPS Grading Report.pdf to reflect the generation and distribution to Contractors of the GDOT GPS Grading Report "pre-award" instead of "post-award".

GDOT Style Sheets

- The GDOT RW Table.xsl Style Sheet was revised to correct an error when writing Deeds with Curve information at the end of the alignment.

❖ Created two new feature styles. **MAIN_P_OVERLAY** and **MAIN_P_MILLING** for use with the new overlay and milling component in SS2.
❖ Edited all the TOPO features styles so they could be displayed/annotated on profiles.
❖ Edited the preferences under the command Geometry > View Geometry > Curve Set Annotation to place a check in the Left Hand Cell and Right Hand Cell check box. This is a new check box in SS2. The curve data location is controlled by the offsets in the text settings of the same dialog but if these check boxes are ignored, the offset settings are ignored.
❖ Edited the Design Default preference loaded in the project options dialog so that the Sight Distance – Eye Height, Stopping Object Height and Passing Object Height would be set to 3.5, 2.0 and 3.5 respectively.
❖ Edited all the feature styles that had the check box 'Point Name' unchecked under the geometry feature/points folder to ensure they were checked. This allows users to use the feature style when storing points and have the point name display when displaying the point.
❖ Edited the preferences **20 Scale** and **50 Scale** located under Tools > Survey options so that the Point and Figure Seeds would begin at 1.
❖ Named symbologies and preferences were edited to use new levels in MicroStation created specifically for Plan, Profile or Cross Section Views.
❖ Edited all the **MAIN_P_****** styles to uncheck the Surface Feature > 3-D/Plan Display > Points box. This is so a Pay Item wouldn't be assigned to each point when the Assign Pay Items command is used in Quantity Manager

10-01-12: Updated INROADSALLV8i.EXE

Updated: Standard Files:

- **ITL File** – Various updates/revisions. (See update/revision list in the Table depicted below).

Component Description Documentation

A Component Description Document for the 'TP P1, P2 & P3 Parapet Retaining Wall' Component was added.

GDOT Style Sheets

- The Style Sheet install locations were changed from the *C:\Program Files\Bentley\InRoads Group V8.11\XML Data* folder to the *C:\InRoads*

Data\Style Sheets folder. This is so that a single InRoadsALL.exe will work on both Windows XP and Windows 7 -- 32 and 64 bit machines.

❖ A new component named 'TP P1, P2 & P3 Parapet Retaining Wall' was created.
❖ Revised the template 'TP W Guardrail' to be 31" tall rather than 27" inches tall in response to changes to the standards.
❖ Revised the template 'Type 2S' so that the default depth of the footing is always 10" below the existing ground as measured from the existing ground to the top right corner of the footing as shown on the standards.

07-15-12: Updated INROADSALLV8i.EXE

Updated: Standard Files:

- **XIN File** – Various updates/revisions. (See update/revision list in the Table depicted below).

GDOT Style Sheet Documentation

- Revised Style Sheet Help File – GDOT RW Table.pdf to correct a screen capture.

GDOT Style Sheets

- Revised Style Sheet – GDOT RW Table.xsl to report the SF to two decimal places.
- Revised Style Sheet – GDOT Earthwork Volumes Report.xsl to correct a
- reporting issue when empty cross section stations are represented.

❖ All **TOPO_E_####** Feature Styles were edited to include an attribute name. Attributes collected in the field will now display in the description field for the **Surface ►Feature Properties** dialog.
❖ The Named Symbology **TOPO_E_TETL** and the Feature Style **TOPO_E_TETL** were created.
❖ The Filter **DTM Surface Codes** was revised to include the Feature Style **TOPO_E_TETL**. This filter is used by Survey with the command **Surface ►Survey Data to Surface** when data is copied from the Survey module to the Surface module.
❖ The Filter **EXIST_RDWY-ACL+EOP+RR** was revised to include the Feature Style **TOPO_E_TETL**. This filter is used with the command **Surface ►View Surface ►Features** for viewing only existing roadway and railroad features for developing centerlines.
❖ The Filter **TOPO.DGN** was revised to include the Feature Style **TOPO_E_TETL**. This filter is used by Survey with the command **Surface ►View Surface ►Features** when creating the TOPO.DGN file for delivery to design.
❖ All **TOPO_E_****** Feature Styles with a 'Breakline' or 'Interior' feature type were revised to turn off the display of the points. Exceptions to this are **TOPO_E_DCEF, DPC, DPM,**

DPP and **TLIML**. The reason for this is to increase the viewing speed of the existing DTM features.
❖ All **TOPO_E_****** Feature Styles were edited to have the 'Annotate' check box checked in the style manager under the 'Surface Feature' leaf. This enables the feature to be annotated in the cross sections when using the command **Evaluation ► Cross Section ► Annotate Cross Section ► Features**.
❖ The XIN has been revised in order to import GDOT Trimble CSV files. The command File **► Import ► Survey** Data now has a pull down selection named GDOT Trimble (.csv).
❖ Edited the style **TOPO_E_TIRRLMT** so it could be used in the Geometry module. This is a Feature Style that represents Irrigation Limits and is most often picked up as a feature that goes to the DTM but is sometimes collected as a horizontal alignment which goes to the Geometry module.
❖ Edited all styles with the **BRDG_**, **DRNG_**, **LIMT_**, **and MAIN_** prefixes to ensure all check boxes under 3-D/Plan Display, Cross Section Display and Profile Display were checked. This is found under **Tools ► Style Manager ► "Style" ► Surface Feature**.
❖ The **Plan and Profile Generator** Preferences were revised to generate multi-sheet Profiles for 20 & 50 Scale Double & Single Profile Preferences instead of Single Sheet.

10-15-11: Updated INROADSALLV8i.EXE

Updated: Standard Files:

- **XIN File** – Various updates/revisions. (See update/revision list in the Table depicted below).
- **QA Checklists for Photogrammetry and Survey Processing** – QA PDF documents were updated to correct erroneous wording for DTM 'Spike' checks.

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT 3D Alignment Comparison Report.pdf
- Added Style Sheet Help File – GDOT Intersecting Alignment Stations.pdf

GDOT Style Sheets

- Added Style Sheet – GDOT 3D Alignment Comparison Report.xsl
- Added Style Sheet – GDOT Intersecting Alignment Stations.xsl

❖ The preferences listed below were edited to set up the annotation of a Station Equation on an alignment. The preferences are located under the command **Geometry ► View Geometry ► Stationing**.		
❖ **CONSTCL**	**DETCL**	**SIDECL**
❖ **CONSTCL 20 SCALE**	**DETCL 20 SCALE**	**SIDECL 20 SCALE**
❖ Two new preferences named **SE LEFT** and **SE RIGHT** were created for the command **Drafting ► Display Superelevation in Plan**. These preferences are for displaying the Transition Stations and Superelevation Rate for a developed Corridor and Superelevation Control Line. **SE LEFT** displays information to the left of the Pivot Line defined in the command and **SE RIGHT** displays information to the right of the Pivot Line defined in the command. At this time the command does not label the transition description (i.e. End NC, Begin NC, Flat, RC, Begin FS, etc.). All information is displayed on the level **MAIN_P_Details-Super-Elev-Trans-Label-Text**.		

❖ The preferences listed below were edited to correct the orientation of the alignment Station text to match that shown in the Plan Presentation Guide. The preferences are located under the command **Geometry ► View Geometry ► Stationing**. The preferences were also enhanced to setup viewing of Event Point Stations and Offsets and Vertical Alignment Cardinal Point Stations information in the plan view if the Designer chooses to check these buttons on. The information for the Event Points and Vertical Alignments displays on the level **MAIN_P_Misc-Details-Info** and **PROF_P_Finish-Text**. ❖ **CONSTCL** **DETCL** **SIDECL** ❖ **CONSTCL 20 SCALE** **DETCL 20 SCALE** **SIDECL 20 SCALE**
❖ The preference '**GDOT Profiles**' under the command **Geometry ► View Geometry ► Vertical Annotation** was edited to place the text **VLOW** and **VHIGH** rather than LO and HI. This was done so that the text on the Profile Sheets would match the text generated in Reports.
❖ The feature type of the feature style **TOPO_E_DEW** was changed from Interior to Breakline. The reason for this change is because survey collects this feature as a non closed shape. With the feature type set to Interior, InRoads creates a closed shape of the item when it is imported into the DTM and this is not desired. The surveyed item is a 2D non-triangulated item and will remain a 2D non-triangulated item.

07-01-11: Updated INROADSALLV8i.EXE

Updated: Standard Files:

- **XIN File** – Various revisions to several Feature Styles, Named Symbologies and Filters. See complete Revision List depicted below:

❖ The Feature Styles listed below were edited to ensure the checkbox for 'Geometry Spiral Feature' was checked. This is located under Tools – Style Manager and clicking the Edit button for the Style to edit. While spirals are not typically used in current design of Highways, the processing of existing plans and deeds during the surveying process of current projects has come across R/W and centerline alignments that were designed using spirals. The 'Geometry Spiral Feature' checkbox needs to be checked in order to properly display the correct line style. The Feature Styles listed here did not already have this check box selected. ❖ **MAIN_P_SIDECL** **PROP_E_PAR** ❖ **PROP_E_BCOL** **PROP_E_RWRR** ❖ **PROP_E_BCTL** **PROP_E_RWU** ❖ **PROP_E_BLDL** **REQD_E_DWESMT**
❖ All of the line style Named Symbologies (except for **LIMIT_P_Const-Limit-Fill** and **LIMIT_P_Const-Limit-Fill**) were changed from a Scale of **0.02 to 1.00** and the Scale check box was checked so the Global Scale Factor of 20, 50, etc. would be applied. The custom line styles **LIMT-Fill** and **LIMT-Cut** appear to have been drawn at a different scale factor than the other custom line styles.
❖ The following Feature Style (**MAIN_P_EEOP)** was edited to make it available for selection on alignments in the ALG.

- Created a Preference named **PAR NAMES** for the command **Geometry ► View Geometry ► Closed Areas**. This is to view the alignment names for closed alignments in MicroStation.

- Edited the Filter **DTM Surface Codes** to now exclude code 244 (SCCHK). This filter was used with the **Survey > Survey Data to Surface** command. This code was removed at the request of survey. It is used only during field work and is supposed to be removed from the ASC file before importing into CAiCE (i.e. InRoads) according to the CAiCE survey processing guidelines page 21. At times the code is not removed from the ASC file and has to be manually removed from the CAiCE database (i.e. the InRoads DTM and ALG). Editing the Filters prevents this code from ever entering the DTM or ALG and saves the SDE editing time.

- Edited the Filter **Property and Alignment Codes** to remove code 244 (SCCHK). This Filter was used with the **Survey ► Survey Data to Geometry** command. The change was made for the same reason as listed above.

- The following Feature Styles were edited to make them available for selection on alignments in the ALG.

  - **MAIN_P_ Barrier-Median-Side**
  - **MAIN_P_ Barrier-Noise-Wall**
  - **MAIN_P_ Barrier-Retain-Wall**
  - **MAIN_P_ CROWN**
  - **MAIN_P_ Curb**
  - **MAIN_P_ Driveway**
  - **MAIN_P_ EPSHLDR**
  - **MAIN_P_ Guardrail**
  - **MAIN_P_ Misc-Const-Feat**
  - **MAIN_P_ Sidewalk**
  - **MAIN_P_ Slope-break**

- The following Feature Styles and Named Symbologies were created for use in the Roadway Designer Vertical Gore Design Tool.

Feature Style		Named Symbology
MAIN_P_GoreMax	-	**MAIN_P_GoreMax**
MAIN_P_GoreMainIdeal	-	**MAIN_P_GoreMainIdeal**
MAIN_P_GoreRampIdeal	-	**MAIN_P_GoreRampIdeal**
MAIN_P_GoreMin	-	**MAIN_P_GoreMin**

- The Preference named **Vertical Gore Design Tool** was created for use in the Roadway Designer Vertical Gore Design Tool. This Preference loads the Feature Styles listed above into the proper fields.

- The **50 Scale** and **20 Scale** Preferences located under **Tools ► Survey Options ► Symbology Tab ► Edit View** button, were corrected to set up the View Text Symbology dialog to enter settings of Text Height - .15, Text Width - .15 and Line Spacing - .10 for the **50 Scale** Preference and Text Height - .375, Text Width - .375 and Line Spacing - .25 for the **20 Scale** Preference.

04-01-11: Updated INROADSALLV8i.EXE

Updated: Standard Files:

- **XIN File** – Various revisions to several Feature Styles. Added Bridge Hydraulics Feature Style and Preference, Edited Survey Style Filter to include Feature Codes 240-245 to the Property and Alignment Codes filter, revised the 50 Scale and 20 Scale Preferences text width and line spacing.
- **ITL File** – Edited the template documentation link for each component so the path would already be listed when the Template Documentation Link button was clicked for each component.

GDOT Style Sheet Documentation

- Added Style Sheet Help File – GDOT Feature-StationElevationOffset Report.xsl
- Added Style Sheet Help File – GDOT GPS Grading Report. xsl
- Added Style Sheet Help File– GDOT HEC RAS Bridge Features Report.xsl
- Added Style Sheet Help– GDOT HEC RAS Cross Section Geometry Report.xsl

GDOT Style Sheets

- Added Style Sheet – GDOT Feature-StationElevationOffset Report.xsl
- Added Style Sheet – GDOT GPS Grading Report. xsl
- Added Style Sheet – GDOT HEC RAS Bridge Features Report.xsl
- Added Style Sheet – GDOT HEC RAS Cross Section Geometry Report.xsl

09-15-10: Updated INROADSALLV8i.EXE

Updated: Standard Files:

- **XIN File** – Various revisions to all Feature Styles, removed 'Attach Tags' to all of the Feature Styles, revised custom attributes on 'Dimension Feature Styles", changed linear precision to 3 decimal places.
- **QA Documents.docx** – QA Word documents for Photogrammetry, Survey and Design were replaced with PDF documents.

07-15-10: Updated INROADSALLV8i.EXE

Updated: GDOT Style Sheets:

- Style sheet **GDOT Alignment Points List.xsl** – Corrected title
- Style sheet **GDOT Feature Volumes Report.xsl** – Corrected title.

Updated: Standard Files:

- **Design Data_InRoads QA.docx** – Corrected several 'pull downs' in the verified column.
- **Survey Data Processing_InRoads QA.docx** – Added a line for ensuring the Surface Properties Symbology Preferences were set to "EXISTING" for both the Cross Sections and Profiles.

07-01-10: Released INROADSALLV8i.EXE – Initial Version

Standard Files Released:

- GDOT_Standard V8i.xin
- GDOT_Standard V8i.itl
- Project_Data_Sheet_MultipleAlign.docm
- Photogrammetry_InRoads QA.docx
- Survey Data Processing_InRoads QA.docx
- Design Data_InRoads QA.docx

Component Description Documentation
GDOT Style Sheet Documentation
GDOT Style Sheets

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