

**State of Georgia**  
**Department of Transportation**

# InRoads Field Survey Feature Codes

**\*\*InRoads Select Series 2\*\***



## **InRoads Field Survey Feature Codes**

1/31/2019

Revision 1.1

Atlanta, Georgia 30308



This document was developed as part of the continuing effort to provide guidance within the Georgia Department of Transportation in fulfilling its mission to provide a safe, efficient, and sustainable transportation system through dedicated teamwork and responsible leadership supporting economic development, environmental sensitivity and improved quality of life. This document is not intended to establish policy within the Department, but to provide guidance in adhering to the policies of the Department.

Your comments, suggestions, and ideas for improvements are welcomed.

Please send comments to:

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### **DISCLAIMER**

The Georgia Department of Transportation maintains this printable document and is solely responsible for ensuring that it is equivalent to the approved Department guidelines.

## Revision Summary

<b>Date</b>	<b>Revision Number</b>	<b>Description</b>
03-08-18	1.00	Removed table from all other manuals and guidelines. The following feature styles now Triangulate: TOPO_E_TBLED, TOPO_E_THCR and TOPO_E_TMOCR. Added CABLE BARRIER feature style.
1-31-19	1.10	Added all feature styles that are accepted for use in mapping and survey, including new R/W and Utility feature styles. Removed SMI and Group codes. Reorganized table to make it more clear. The new utility feature styles coincide with the Utility Legend and all cells used for utility features now point to the GDOT-UT-Utility cell library.

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 GDOT Standard InRoads Field Survey Feature Codes
 

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The following table is for informational use only so that the Designer and SDE will have a reference for the Field Survey Feature Codes if needed. This table lists associated **InRoads Alpha Codes** and **Feature Styles** for use in Field Survey. The **Point or Chain Type** and **Triangulate (Yes/No)** columns denote whether a feature is a Point or Chain Type and whether it is triangulated or not triangulated in the DTM Surface. **These parameters should never be changed**, with the one exception of the Exterior Boundary when the Feature Type needs to be changed from Breakline to Exterior (feature style TOPO\_E\_TLIML). GDOT provides numerous Surveyor-Defined options for features not listed or when different parameters are required. Features that have “(DIM.)” included in the description require dimensional attributes to be entered.

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Property and Right-of-Way</b>				
RIGHT-OF-WAY MARKER FOUND	RWM	PROP_E_RWM	Point	N
RAILROAD RIGHT-OF-WAY MARKER FOUND	RWRR	PROP_E_RWRR	Point	N
RIGHT-OF-WAY POINT COMPUTED	RWC	PROP_E_RWC	Point	N
RIGHT-OF-WAY UTILITY COMPANY	RWU	PROP_E_RWU	Point	N
RIGHT-OF-WAY, EXISTING/PRESCRIPTION	RWE	PROP_E_RWE	Chain	N
LIMITED ACCESS RIGHT-OF-WAY LINE	LTDACS	PROP_E_LTD-ACCESS	Chain	N
RIGHT-OF-WAY, BOTH EXISTING AND LIMITED ACCESS	RWELTDACS	PROP_E_RWE-LTD-ACCESS	Chain	N
POINT ON EASEMENT LINE	POEL	PROP_E_POEL	Point	N
EASEMENT LINE, EXISTING	ESMT	PROP_E_ESMT	Chain	N
PARCEL/PROPERTY LINE	PAR	PROP_E_PAR	Chain	N
PROPERTY CORNER FOUND	PCF	PROP_E_PCF	Point	N
PROPERTY POINT ON LINE	PPOL	PROP_E_PPOL	Point	N
PROPERTY POINT COMPUTED	PPC	PROP_E_PPC	Point	N
<b>Boundaries</b>				
COUNTY LINE	BCOL	PROP_E_BCOL	Chain	N
CITY LIMIT LINE	BCTL	PROP_E_BCTL	Chain	N
LAND DISTRICT LINE	BLDL	PROP_E_BLDL	Chain	N
LAND LOT LINE	BLLL	PROP_E_BLLL	Chain	N
STATE LINE	BSL	PROP_E_BSL	Chain	N
GEORGIA MILITIA DISTRICT LINE	BGMD	PROP_E_BGMD	Chain	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Alignment</b>				
POINT ON TANGENT, EXISTING	APOT	PROP_E_APOT	Point	N
POINT OF CURVATURE, EXISTING	APC	PROP_E_APC	Point	N
POINT ON CURVE, EXISTING	APOC	PROP_E_APOC	Point	N
POINT OF TANGENCY, EXISTING	APT	PROP_E_APT	Point	N
POINT OF INTERSECTION	API	PROP_E_API	Point	N
ALIGNMENT CENTERLINE PC/PT	ACLPCPT	PROP_E_ACL-PC-PT	Point	N
ALIGNMENT CENTERLINE	ACL	PROP_E_ACL	Chain	N
<b>Roadways</b>				
EDGE OF DIRT ROAD	TEDR	TOPO_E_TEDR	Chain	Y
EDGE OF DIRT DRIVE	TEDD	TOPO_E_TEDD	Chain	Y
EDGE OF ASPHALT DRIVE	TEAD	TOPO_E_TEAD	Chain	Y
EDGE OF CONCRETE DRIVE	TECD	TOPO_E_TECD	Chain	Y
EDGE OF ASPHALT PAVEMENT	TEAP	TOPO_E_TEAP	Chain	Y
EDGE OF ASPHALT SHOULDER	TEAS	TOPO_E_TEAS	Chain	Y
EDGE OF CONCRETE PAVEMENT	TECP	TOPO_E_TECP	Chain	Y
EDGE OF TRAVEL LANE	TETL	TOPO_E_TETL	Chain	Y
EDGE OF EMERGENCY LANE	TEL	TOPO_E_TEL	Chain	Y
EDGE SURFACE TREATMENT ROAD	TEST	TOPO_E_TEST	Chain	Y
CROWN OF ROAD	TCOR	TOPO_E_TCOR	Chain	Y
SIDEWALK, EDGE	TSW	TOPO_E_TSW	Chain	Y
CURB, ASPHALT	TAC	TOPO_E_TAC	Chain	Y
CURB, HEADER	THC	TOPO_E_THC	Chain	Y
CURB & GUTTER, TOP	TCGT	TOPO_E_TCGT	Chain	Y
CURB & GUTTER, F/L	TCGF	TOPO_E_TCGF	Chain	Y
V-GUTTER	TVG	TOPO_E_TVG	Chain	Y
KM POST, HIGHWAY – (DIM.)	TKMP	TOPO_E_TKMP	Point	N
MILE POST, HIGHWAY – (DIM.)	TMPH	TOPO_E_TMPH	Point	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Bridges</b>				
BRIDGE APPROACH SLAB, EDGE	TBAS	TOPO_E_TBAS	Chain	Y
BRIDGE BEAM BOTTOM	TBBB	TOPO_E_TBBB	Chain	N
BRIDGE OUTSIDE EDGE/CORNER	TBRDGCOR	TOPO_E_TBRDGCOR	Chain	N
BRIDGE COLUMN, CENTER	TCOLC	TOPO_E_TCOLC	Point	N
BRIDGE COLUMN, EDGE	TCOLE	TOPO_E_TCOLE	Chain	N
BRIDGE GUTTER/SIDEWALK/CURB EDGE	TBGL	TOPO_E_TBGL	Chain	N
BRIDGE CENTERLINE	TBCL	TOPO_E_TBCL	Chain	N
ENDROLL	TENDROLL	TOPO_E_TENDROLL	Chain	Y
BRIDGE CAP	TBCAP	TOPO_E_TBCAP	Point	N
<b>General Topo</b>				
WALL TOP, NON-TRIANGULATED	TWF	TOPO_E_TWF	Chain	N
WALL TOP, TRIANGULATED	TWFT	TOPO_E_TWFT	Chain	Y
WALL BOTTOM, TRIANGULATED	TWFB	TOPO_E_TWFB	Chain	Y
IRRIGATION PIVOT POINT	TIRRPVTP	TOPO_E_TIRRPVTP	Point	N
IRRIGATION LIMITS	TIRRLMT	TOPO_E_TIRRLMT	Point	N
SIGN, CENTER	TSC	TOPO_E_TSC	Point	N
SIGN, END	TSE	TOPO_E_TSE	Chain	N
GASOLINE MONITORING WELL	TGMW	TOPO_E_TGMW	Point	N
GASOLINE FILLER VALVE	TGFV	TOPO_E_TGFV	Point	N
GASOLINE VENT PIPE	TGVP	TOPO_E_TGVP	Point	N
GASOLINE PUMP	TGP	TOPO_E_TGP	Point	N
GASOLINE STORAGE TANK, END	TGST	TOPO_E_TGST	Chain	N
GASOLINE PUMP ISLAND	TGPI	TOPO_E_TGPI	Chain	N
CANOPY	TCAN	TOPO_E_TCAN	Chain	N
BUILDING CORNER	TBLD	TOPO_E_TBLD	Chain	N
BUILDING ROOF LINE CORNER	TBLDRL	TOPO_E_TBLDRL	Chain	N
HOUSE CORNER	THCR	TOPO_E_THCR	Chain	N
HOUSE ROOF LINE CORNER	THRL	TOPO_E_THRL	Chain	N
MOBILE HOME CORNER	TMHCR	TOPO_E_TMHCR	Chain	N
MOBILE HOME ROOF LINE CORNER	TMHRL	TOPO_E_TMHRL	Chain	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>General Topo (Continued)</b>				
PAINT STRIPING	TSTP	TOPO_E_TSTP	Chain	N
WOODS LINE	TWL	TOPO_E_TWL	Chain	N
TREE, CENTER – (DIM.)	TTRE	TOPO_E_TTRE	Point	N
CULTIVATION LINE	TCUL	TOPO_E_TCUL	Chain	N
FENCE, CHAIN LINK (DIM.)	TFCL	TOPO_E_TFCL	Chain	N
FENCE, FIELD WIRE	TFFW	TOPO_E_TFFW	Chain	N
FENCE, BARBED WIRE	TFBW	TOPO_E_TFBW	Chain	N
FENCE, WOODEN	TFW	TOPO_E_TFW	Chain	N
FENCE, VINYL (PVC)	TVF	TOPO_E_TVF	Chain	N
CEMETERY LINE	TCEM	TOPO_E_TCEM	Chain	N
GRAVE	TGRV	TOPO_E_TGRV	Chain	N
GUARDRAIL	TGR	TOPO_E_TGR	Chain	N
CABLE BARRIER	TCBLBAR	TOPO_E_TCBLBAR	Chain	N
WELL – (DIM.)	TWELL	TOPO_E_TWELL	Point	N
LIMIT LINE	TLIML	TOPO_E_TLIML	Chain/Exterior	Y
CONSTRUCTION BOUNDARY, ACTV	TCBA	TOPO_E_TCBA	Chain/Interior	Y
CONSTRUCTION BOUNDARY, FIND	TCBF	TOPO_E_TCBF	Chain/Interior	Y
FLOOR ELEVATION	TFE	TOPO_E_TFE	Point	N
GATE	TG	TOPO_E_TG	Chain	N
UNCOVERED DECK	TUD	TOPO_E_TUD	Chain	N
FUEL TANK	TFT	TOPO_E_TFT	Point	N
BRICK COLUMN	TBC	TOPO_E_TBC	Chain	N
STEPS	TS	TOPO_E_TS	Chain	N
HISTORICAL MONUMENT	THM	TOPO_E_THM	Chain	N
FLAG POLE	TFP	TOPO_E_TFP	Point	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Utilities</b>				
MANHOLE, ELECTRICAL, TOP	UUMHE	UTLE_E_UUMHE	Point	N
MANHOLE, GAS, TOP	UUMHG	UTLE_E_UUMHG	Point	N
MANHOLE, SANITARY SEWER, TOP	UUMHSS	UTLE_E_UUMHSS	Point	N
MANHOLE, TELEPHONE, TOP	UUMHT	UTLE_E_UUMHT	Point	N
MANHOLE, TV, TOP	UUMHTV	UTLE_E_UUMHTV	Point	N
MANHOLE, WATER, TOP	UUMHW	UTLE_E_UUMHW	Point	N
STRAIN POLE/TRAFFIC SIGNAL POLE	UUSTRPOL	UTLE_E_UUSTRPOL	Point	N
GUY POLE, CENTER	UUGP	UTLE_E_UUGP	Point	N
POLE ANCHOR	UUPGA	UTLE_E_UUPGA	Point	N
TELEPHONE POLE, CENTER	UUTP	UTLE_E_UUTP	Point	N
POWER POLE, CENTER	UUPP	UTLE_E_UUPP	Point	N
LIGHT POLE, CENTER	UULP	UTLE_E_UULP	Point	N
ELECTRICAL BOX	UUELBOX	UTLE_E_UUELBOX	Point	N
OVERHEAD ELECTRICAL LINE	UUOEL	UTLE_E_UUOEL	Chain	N
ELECTRIC HANDHOLE	UUEHH	UTLE_E_UUEHH	Point	N
ELECTRIC MARKER	UUEMRK	UTLE_E_UUEMRK	Point	N
ELECTRIC METER	UUEM	UTLE_E_UUEM	Point	N
TRANSFORMER	UUTFM	UTLE_E_UUTFM	Point	N
TRANSMISSION TOWER	UUTTWR	UTLE_E_UUTTWR	Point	N
YARD LIGHT, ELECTRICAL	UUYLE	UTLE_E_UUYLE	Point	N
YARD LIGHT, GAS	UUYLG	UTLE_E_UUYLG	Point	N
GAS LINE MARKER	UUNGLM	UTLE_E_UUNGLM	Point	N
GAS METER, CENTER	UUGM	UTLE_E_UUGM	Point	N
GAS PRESSURE REGULATOR	UUGPR	UTLE_E_UUGPR	Point	N
GAS TEST STATION	UUGTS	UTLE_E_UUGTS	Point	N
GAS VALVE, CENTER	UUNGV	UTLE_E_UUNGV	Point	N
GAS VAULT	UUGVT	UTLE_E_UUGVT	Point	N
NATURAL GAS VENT PIPE	UUNGVP	UTLE_E_UUNGVP	Point	N
PETROLEUM VALVE	UUPV	UTLE_E_UUPV	Point	N
SANITARY SEWER LINE, CENTER	UUSSL	UTLE_E_UUSSL	Chain	N
SANITARY SEWER AIR RELEASE VALVE	UUSARV	UTLE_E_UUSARV	Point	N
SANITARY SEWER CLEANOUT	UUSCO	UTLE_E_UUSCO	Point	N



Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Utilities (Continued)</b>				
SANITARY SEWER FORCE MAIN VALVE	UUSFMV	UTLE_E_UUSFMV	Point	N
SANITARY SEWER GREASE TRAP	UUSGT	UTLE_E_UUSGT	Point	N
TELEPHONE BOOTH	UUTB	UTLE_E_UUTB	Point	N
TELEPHONE CABINET	UUTELCAB	UTLE_E_UUTELCAB	Point	N
TELEPHONE HANDHOLE	UUTHH	UTLE_E_UUTHH	Point	N
TELEPHONE PEDESTAL, CENTER	UUTPD	UTLE_E_UUTPD	Point	N
TELEPHONE SPLICE BOX	UUTSPB	UTLE_E_UUTSPB	Point	N
TELEPHONE SUBSCRIBER LOOP CARRIER (SLICK)	UUTSLC	UTLE_E_UUTSLC	Point	N
OVERHEAD TELEPHONE LINE	UUOTL	UTLE_E_UUOTL	Chain	N
TELEPHONE MARKER	UUTMRK	UTLE_E_UUTMRK	Point	N
UNDERGROUND FIBER MARKER	UUFM	UTLE_E_UUFM	Point	N
TV MARKER	UUTVMRK	UTLE_E_UUTVMRK	Point	N
TV HANDHOLE	UUTVHH	UTLE_E_UUTVHH	Point	N
TV PEDESTAL	UUTVP	UTLE_E_UUTVP	Point	N
SATELLITE DISH	UTSATDSH	UTLE_E_UTSATDSH	Point	N
PEDESTRIAN CROSS LIGHT	UUPCL	UTLE_E_UUPCL	Point	N
TRAFFIC SIGNAL BOX/TRAFFIC CONTROL CABINET	UUTSB	UTLE_E_UUTSB	Point	N
WATER AIR RELEASE VALVE	UUWARV	UTLE_E_UUWARV	Point	N
WATER BACKFLOW PREVENTER	UUWBFP	UTLE_E_UUWBFP	Point	N
FIRE HYDRANT, CENTER	UUFH	UTLE_E_UUFH	Point	N
WATER METER, CENTER	UUWM	UTLE_E_UUWM	Point	N
WATER PRESSURE INDICATOR VALVE	UUWPIV	UTLE_E_UUWPIV	Point	N
WATER STANDPIPE	UUWSP	UTLE_E_UUWSP	Point	N
WATER VALVE	UUWV	UTLE_E_UUWV	Point	N
WATER VALVE MARKER	UUWVMRK	UTLE_E_UUWVMRK	Point	N
WATER VAULT	UUWVT	UTLE_E_UUWVT	Point	N
RAILROAD, TOP OF RAIL	UTRCR	UTLE_E_UTRCR	Chain	N
RAILROAD, CENTERLINE	UTRCL	UTLE_E_UTRCL	Chain	N
MILE POST, RAILROAD – (DIM.)	UTMPR	UTLE_E_UTMPR	Point	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Subsurface Utilities</b>				
SUBSURFACE UTILITY - BOTTOM	SUEBOT	UTLE_E_SUEBOT	Point	N
SUBSURFACE UTILITY - TOP	SUETOP	UTLE_E_SUETOP	Point	N
<b>Ground Elevations</b>				
TERRAIN POINT ON BREAKLINE	TPBL	TOPO_E_TPBL	Chain	Y
RANDOM TERRAIN POINT	TRP	TOPO_E_TRP	Point	Y
<b>Mapping/Surface Checks</b>				
DITCH FLOW LINE – MAPPING ONLY	MDITCHFL	TOPO_E_MDITCHFL	Chain	Y
OBSCURED AREA, MAPPING	MOBSC	TOPO_E_MOBSC	Chain/Interior	Y
MAP CHECK GROUND – GDOT STAFF USE ONLY	MPCKGRD	TOPO_E_MPCKGRD	Point	N
MAP CHECK PAVEMENT – GDOT STAFF USE ONLY	MPCKPAV	TOPO_E_MPCKPAV	Point	N
<b>Survey Control</b>				
NGS CONTROL MONUMENT	SNGSCM	TOPO_E_SNGSCM	Point	N
LOCATION CONTROL MONUMENT	SLCM	TOPO_E_SLCM	Point	N
LOCATION CONTROL DELTA	SLCD	TOPO_E_SLCD	Point	N
DISTRICT CONTROL DELTA	SDCD	TOPO_E_SDCD	Point	N
CONTROL RE-SHOT FOR CHECK	SCCHK	TOPO_E_SCCHK	Point	N
BENCHMARK	SBNCHMK	TOPO_E_SBNCHMK	Point	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Drainage</b>				
DRAINAGE PIPE, F/L, CONCRETE – (DIM.)	DPC	TOPO_E_DPC	Chain	N
DRAINAGE PIPE, F/L, METAL – (DIM.)	DPM	TOPO_E_DPM	Chain	N
DRAINAGE PIPE, F/L, PLASTIC – (DIM.)	DPP	TOPO_E_DPP	Chain	N
CULVERT END, F/L – (DIM.)	DCEF	TOPO_E_DCEF	Chain	N
HEADWALL/WINGWALL TOP	DHWT	TOPO_E_DHWT	Chain	Y
HEADWALL/WINGWALL BOTTOM	DHWP	TOPO_E_DHWP	Chain	Y
THROAT OF CATCH BASIN ALONG GUTTER	DCB	TOPO_E_DCB	Point	N
DROP INLET, TOP	DDI	TOPO_E_DDI	Point	N
SPUR DIKE	DSPURDK	TOPO_E_DSPURDK	Chain	Y
TOP OF WATER ELEVATION	DWE	TOPO_E_DWE	Point	N
STREAM CENTER, F/L	DSC	TOPO_E_DSC	Chain	Y
STREAM EDGE	DSE	TOPO_E_DSE	Chain	Y
STREAM BANK TOP	DSB	TOPO_E_DSB	Chain	Y
DAM, TOP	DDT	TOPO_E_DDT	Chain	Y
DAM, TOE	DADB	TOPO_E_DADB	Chain	Y
OBSCURED AREA, DRAINAGE	DOBSC	TOPO_E_DOBSC	Chain/Interior	Y
LAKE EDGE	TLAKE	TOPO_E_TLAKE	Chain/Interior	Y
RIVER EDGE	TRIVER	TOPO_E_TRIVER	Chain/Interior	Y
SWAMP EDGE	DSWE	TOPO_E_DSWE	Chain	N
EDGE OF MISCELLANEOUS WATER FEATURE	DEW	TOPO_E_DEW	Chain	Y
WETLAND BOUNDARY	DWB	TOPO_E_DWB	Chain	N
STREAM BANK-FULL	SBF	TOPO_E_SBF	Chain	N
STREAM X-SECTION	SXS	TOPO_E_SXS	Point	N
DRAINAGE BOTTOM OF DITCH	DBOD	TOPO_E_DBOD	Chain	Y
DRAINAGE TOP OF DITCH	DTOD	TOPO_E_DTOD	Chain	Y
HIGH WATER MARK	DHWM	TOPO_E_DHWM	Point	N
PAVED DITCH	DPD	TOPO_E_DPD	Chain	Y
SEPTIC TANK CENTER	DSTC	TOPO_E_DSTC	Point	N
DRAIN LINES	DDL	TOPO_E_DDL	Chain	N
MANHOLE STORM SEWER, TOP	UHMST	TOPO_E_UMHST	Point	N
JUNCTION BOX	DJB	TOPO_E_DJB	Point	N

Description	InRoads Alpha Code	InRoads Feature Style	Point or Chain Type	Triangulate (Y/N)
<b>Surveyor-Defined</b>				
Surveyor Defined Value – Triangulated Chain	XXA	TOPO_E_XXA	Chain	Y
Surveyor Defined Value – Triangulated Chain	XXB	TOPO_E_XXB	Chain	Y
Surveyor Defined Value – Triangulated Chain	XXC	TOPO_E_XXC	Chain	Y
Surveyor Defined Value – Triangulated Chain	XXD	TOPO_E_XXD	Chain	Y
Surveyor Defined Value – Triangulated Chain	XXE	TOPO_E_XXE	Chain	Y
Surveyor Defined Value – Triangulated Chain	XXF	TOPO_E_XXF	Chain	Y
Surveyor Defined Value – Triangulated Chain	XXG	TOPO_E_XXG	Chain	Y
Surveyor Defined Value – Non-triangulated Chain	XXH	TOPO_E_XXH	Chain	N
Surveyor Defined Value – Non-triangulated Chain	XXI	TOPO_E_XXI	Chain	N
Surveyor Defined Value – Non-triangulated Chain	XXJ	TOPO_E_XXJ	Chain	N
Surveyor Defined Value – Non-triangulated Chain	XXK	TOPO_E_XXK	Chain	N
Surveyor Defined Value – Non-triangulated Chain	XXL	TOPO_E_XXL	Chain	N
Surveyor Defined Value – Non-triangulated Chain	XXM	TOPO_E_XXM	Chain	N
Surveyor Defined Value – Non-triangulated Chain	XXN	TOPO_E_XXN	Chain	N
Surveyor Defined Value – Triangulated Point	XXO	TOPO_E_XXO	Point	Y
Surveyor Defined Value – Triangulated Point	XXP	TOPO_E_XXP	Point	Y
Surveyor Defined Value – Triangulated Point	XXQ	TOPO_E_XXQ	Point	Y
Surveyor Defined Value – Triangulated Point	XXR	TOPO_E_XXR	Point	Y
Surveyor Defined Value – Triangulated Point	XXS	TOPO_E_XXS	Point	Y
Surveyor Defined Value – Triangulated Point	XXT	TOPO_E_XXT	Point	Y
Surveyor Defined Value – Triangulated Point	XXU	TOPO_E_XXU	Point	Y
Surveyor Defined Value – Non-triangulated Point	XXV	TOPO_E_XXV	Point	N
Surveyor Defined Value – Non-triangulated Point	XXW	TOPO_E_XXW	Point	N
Surveyor Defined Value – Non-triangulated Point	XXX	TOPO_E_XXX	Point	N
Surveyor Defined Value – Non-triangulated Point	XXY	TOPO_E_XXY	Point	N
Surveyor Defined Value – Non-triangulated Point	XXZA	TOPO_E_XXZA	Point	N
Surveyor Defined Value – Non-triangulated Point	XXZB	TOPO_E_XXZB	Point	N
Surveyor Defined Value – Non-triangulated Point	XXZC	TOPO_E_XXZC	Point	N
<b>Surveyor-Defined Utilities</b>				
Surveyor Defined Value (Utility) - Point	UXXA	UTLE_E_UXXA	Point	N
Surveyor Defined Value (Utility) - Chain	UXXB	UTLE_E_UXXB	Chain	N