

T.D.O.T SURVEY SMD FEATURE CODES



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GEOPAK FEATURE CODES

TRANSPORTATION FEATURES

| | <u>IN DTM</u> |
|--------------|---|
| BE | Business Entrance..... Y-2 |
| BIKE | Bike Path..... Y-2 |
| CU | Curb (At Bottom W/BL At Top)..... Y-2 |
| DR | Driveway..... Y-2 |
| EP | Edge Of Pavement..... Y-2 |
| FE | Field Entrance..... Y-2 |
| GRCB | Cable Barrier..... NO |
| GRM | Guardrail Median..... NO |
| GRL | Guardrail Left..... NO |
| GRR | Guardrail Right..... NO |
| IMP | Impact Attenuator..... Y-1 |
| JB | Jersey Barrier..... Y-2 |
| MED | Median..... Y-2 |
| PK | Parking Lot..... Y-2 |
| RD | Edge Of Road..... Y-2 |
| RR | Railroad..... Y-2 |
| RRSS | Railroad Sw. Stand..... Y-2 |
| RWAY | Airport Runway..... Y-2 |
| RWT | Ret. Wall (At Bottom W/BL At Top)..... Y-2 |
| RWTWF | Ret. Wall W/Fence(At Bottom W/BL At Top)..... Y-2 |
| SWT | Sidewalk..... Y-2 |
| SH | Edge Of Shoulder..... Y-2 |
| TRAIL | Trail..... Y-2 |
| TUN | Tunnel..... NO |
| XHRAMP | Handicap Curb Opening..... NO |
| XRRSW | Railroad Switch..... Y-1 |

NON-TRANS FEATURES

| | <u>IN DTM</u> |
|---------------|--|
| AFLD | Athletic Field..... Y-2 |
| BC | Building..... Y-4 |
| CG | Cattle Guard..... Y-1 |
| CEM | Cemetery..... Y-1 |
| FN | Fence..... Y-1 |
| GATE | Gate..... Y-1 |
| GRAVE | Grave..... Y-1 |
| PAD | Miscellaneous Pad..... Y-2 |
| PIT | Quarry or Pit..... Y-2 |
| ROCKW | Rock Wall..... Y-2 |
| RWP | Ret. Wall (Private) (AT BOTTOM W/BL AT TOP)..... Y-2 |
| RWPWF | Ret. Wall W/Fence (AT BOTTOM W/BL AT TOP)..... Y-2 |
| SEP | Septic Field Line..... Y-1 |
| SIGNP | Sign (Private)..... NO |
| SWP | Sidewalk (Private)..... Y-2 |
| TANK | Tank (UG or Above Ground)..... NO |
| TOWER | Tower..... Y-1 |
| XBLDR | Boulder..... Y-1 |
| XFE | Floor Elevation..... NO |
| XFLAG | Flag Pole..... Y-1 |
| XFP | Fence Post..... Y-1 |
| XMB | Mail Box..... Y-1 |
| XSATLIT | Satellite Dish..... Y-1 |
| XSEP | Septic Tank..... Y-1 |
| XWELL | Well..... NO |

DRAINAGE

| | <u>IN DTM</u> |
|-------------|--------------------------------|
| ABUT | Bridge Abutment..... Y-2 |
| APRON | Paved Apron..... Y-2 |
| BEAM | Bridge Bottom Beam..... NO |
| BRI | Bridge..... NO |
| CRK | Creek..... Y-2 |
| CRKB | Creek Bed..... Y-2 |
| CV | Culvert..... Y-1 |
| DAM | Dam..... Y-2 |
| DECK | Bridge Deck breaklines..... NO |
| DIKE | Dike..... Y-2 |
| DIT | Paved Ditch..... Y-2 |

| | |
|---------------|---|
| DOWN | Downstream Flood Section..... NO |
| EW | End Wall (At Bottom W/BL At Top)..... Y-2 |
| GAGE | Stream Gage..... Y-1 |
| LAKE | Lake..... Y-2 |
| LEVEE | Levee..... Y-2 |
| PIER | Bridge Pier..... Y-2 |
| PIPE | Pipe..... Y-1 |
| POND | Pond..... Y-2 |
| RIVER | River..... Y-2 |
| RPDS | Rapids/Waterfall..... Y-2 |
| RRAP | Rip-Rap..... Y-2 |
| SINK | Sinkhole..... Y-2 |
| SPILL | Spillway..... Y-2 |
| ?STS | Storm Sewer..... NO |
| SKE | Bridge Sketch..... NO |
| TB | Top Of Bank..... Y-2 |
| UP | Upstream Flood Section..... NO |
| WET | Wetland Boundary..... Y-2 |
| XBOT | Bottom Of MH, CB, Etc..... NO |
| XCB | Catch Basin..... Y-1 |
| XDECK | Bridge Deck..... NO |
| XDI | Drop Inlet..... Y-1 |
| XHW | High Water Elevation Point..... Y-2 |
| XNW | Normal Water Elevation Point..... Y-2 |
| XSPRING | Spring..... Y-1 |
| XMHSTS | Storm Sewer Manhole..... Y-1 |

R.O.W./PROPERTY

| | <u>IN DTM</u> |
|--------------|------------------------------|
| ESMT | Easement..... NO |
| ESMTD | Drainage Easement..... NO |
| PARCEL | Parcels..... NO |
| PL | Property Line..... NO |
| PLWF | PL W/Fence..... NO |
| ROW | ROW Line..... NO |
| ROWWF | ROW W/Fence..... NO |
| XIP | Iron Pin Existing..... NO |
| XMON | Concrete Marker..... NO |
| XPL | Property Corner..... NO |
| XROW | R.O.W. Monument..... NO |
| XROWA | ROW Monument(inline)..... NO |
| XROWB | ROW Monument(corner)..... NO |

POLITICAL BOUNDARIES

| | <u>IN DTM</u> |
|--------------|---------------------|
| CITY | City Limits..... NO |
| COUNTY | County Line..... NO |
| STATE | State Line..... NO |

UTILITIES

| | <u>IN DTM</u> |
|------------|-------------------------------------|
| ?GL | Gas Line..... NO |
| OHW | Overhead Wire..... NO |
| PTOW | Trans. Tower..... Y-1 |
| ?SAS | Sanitary Sewer..... NO |
| ?FMS | Force Main Sanitary Sewer..... NO |
| UGF | Fiber Optic (UG)..... NO |
| UGP | Power (UG)..... NO |
| UGPT | Power/Tel. (UG)..... NO |
| UGT | Telephone (UG)..... NO |
| UGC | Cable (UG)..... NO |
| ?WL | Water Line..... NO |
| XFH | Fire Hydrant..... NO |
| XGAA | Guy Device Angle Anchor..... Y-1 |
| XGM | Gas Meter..... NO |
| XGV | Gas Valve..... NO |
| XGVA | Guy Device Vertical Anchor..... Y-1 |
| XGW | Guy Wire..... Y-1 |
| XLP1 | Light Pole 1 Light..... Y-1 |
| XLP2 | Light Pole 2 Lights..... Y-1 |
| XLP3 | Light Pole 3 Lights..... Y-1 |
| XLP4 | Light Pole 4 Lights..... Y-1 |
| XLW | Low Wire Crossing..... NO |

T.D.O.T SURVEY SMD FEATURE CODES

| | | |
|---------|------------------------------|-----|
| XMH | Manhole | Y-1 |
| XMHC | Cable Manhole | Y-1 |
| XMHF | Fiber Optic Manhole | Y-1 |
| XMHG | Manhole Gas | Y-1 |
| XMHP | Manhole Power | Y-1 |
| XMHSAS | Sewer Manhole | Y-1 |
| XSM | Sewer Meter | NO |
| XSV | Sewer Valve | NO |
| XUM | Misc. Utility Feature | NO |
| UM | Misc. Utility Line | NO |
| XMHT | Telephone Manhole | Y-1 |
| XMHW | Manhole Water | NO |
| XPB | Utility Boxes (pull box) | NO |
| XUP | Utility Pole | Y-1 |
| XUPL | Utility Pole with Light | Y-1 |
| XHMLPH | High Mast Light (half) | Y-1 |
| XHMLPF | High Mast Light (full) | Y-1 |
| XLCC | Lighting Control Center | NO |
| XOFTLP | Offset Type Luminaire & Pole | Y-1 |
| XTBOOTH | Telephone Booth | Y-1 |
| XTBOX | Telephone Box | Y-1 |
| XTGP | Telegraph Pole | Y-1 |
| XTPED | Tele. Pedestal | Y-1 |
| XTOWER | Radio/TV Tower | Y-1 |
| XCPED | Cable Pedestal | Y-1 |
| XWM | Water Meter | NO |
| XWV | Water Valve | NO |

VEGETATION

IN DTM

| | | |
|-------|----------------|-----|
| TREE | Tree Drip Line | Y-1 |
| HEDGE | Hedge Line | Y-1 |
| XBUSH | Bush | Y-1 |
| XTREE | Tree | Y-1 |

(COMMENT : ??" TREE TYPE)

TRAFFIC CONTROL

IN DTM

| | | |
|--------|------------------------------------|-----|
| BARR | Barricade | NO |
| LDECT | Loop Detector | NO |
| LLD | Lane Line Dashed | Y-1 |
| LLS | Lane Line Solid | Y-1 |
| SIGNT | Transportation Sign | NO |
| XOHS | Overhead Sign EX: SCHOOL X | NO |
| XPDMC | Pad Mounted Controller | NO |
| XPDSHN | Pedestrian Signal | NO |
| XPLMC | Pole Mounted Controller | NO |
| XPPH | Pedestrian Pushbutton | NO |
| XPULLB | Pull Box | NO |
| XRRFS | RR Flashing Signal Crossing | NO |
| XRRFSG | RR Flashing Signal Crossing W/Gate | NO |
| XRRSIG | Railroad Signal | NO |
| XSHN | Traffic Signal Head | NO |
| XSHNB | Signal Head W/Backplate | NO |
| XSIGN1 | Small 1-Post Sign | Y-1 |
| XSIGN2 | Small 2-Post Sign | Y-1 |
| X2SIGN | Small 2-Faced Sign | Y-1 |
| XSPSS | Strainpole | Y-1 |
| XWPSS | Wood Signal Pole | Y-1 |

TRAFFIC CONTROL (PAVT. MARKING) IN DTM

NOTE: LOC. ALL PVMT ARROWS AT CENTER OF TRAFFIC LANE RELATIVE TO BOTTOM OF ARROW

| | | |
|---------|-----------------------------------|----|
| CWALK | Crosswalk | NO |
| STOP | Stop Bar | NO |
| XLAR | Left Arrow Pave. Mark. | NO |
| XLRAR | LT & RT Arrow | NO |
| XONLY | Only Pave. Mark. | NO |
| XPVTEXT | Pave. Marking Words (CENTER) | NO |
| XRAR | Right Arrow Pave. Mark. | NO |
| XRRPAV | Railroad Xing Pave. Mark. | NO |
| XSAR | Straight Arrow | NO |
| XRARI | Right Arrow Interstate | NO |
| XSARI | Straight Arrow Interstate | NO |
| XSRARI | Straight & Right Arrow Interstate | NO |
| XHOV | HOV Diamond | NO |
| XSLAR | Str & Lt Arrow | NO |
| XSLRAR | Str, Lt & Rt Arrow | NO |
| XSRAR | Str & Rt Arrow | NO |

TERRAIN MODEL

IN DTM

| | | |
|----|--------------|-----|
| BL | Breakline | Y-2 |
| OL | Obscure Line | Y-4 |
| XP | GROUND POINT | Y-1 |

SURVEY CONTROL

IN DTM

| | | |
|-------|------------------------|-----|
| XBM | Bench Mark | NO |
| XCP | Control Point | Y-1 |
| XCK | Check Point | NO |
| XTRAV | Traverse Point | Y-1 |
| XSPUR | Temporary Survey Point | NO |
| XH | Horz. Photo Point | Y-1 |
| XV | Vert. Photo Point | Y-1 |
| XHV | Horz/Vert Photo Point | Y-1 |

MISCELLANEOUS & DEFAULT CODES

IN DTM

| | | |
|----------------|---------------------|----|
| DEFAULT_CHAIN | default item | NO |
| DEFAULT_CURVE | default item | NO |
| DEFAULT_LINE | default item | NO |
| DEFAULT_PARCEL | default item | NO |
| DEFAULT_POINT | default item | NO |
| DEFAULT_SPIRAL | default item | NO |
| DASH | Dash Line | NO |
| DOT | Dotted Line | NO |
| LD | Long Dash Line | NO |
| MISC | Miscellaneous | NO |
| SOLID | Solid Line | NO |
| XMISC | Misc. unknown point | NO |

OFFICE CODES

IN DTM

| | | |
|------------|-------------------------|----|
| CL | Proposed Centerline | NO |
| DBDRY | Drainage Map Boundary | NO |
| EXCL | Existing Centerline | NO |
| STRCL | Stream Baseline | NO |
| X_PROPERTY | Property development | NO |
| XPOINT | HiVis Generic Office Pt | NO |

| DTM CODES | |
|--|---|
| NO----- Do Not Include in DTM | Y-5----- Include as a Break Void in DTM |
| Y-1----- Include as a Spot in DTM | Y-6----- Include as a Island in DTM |
| Y-2----- Include as a Spot and a Break Line in DTM | Y-7----- Include as a Boundary in DTM |
| Y-3----- Include as a Void in DTM | Y-8----- Include as a Contour in DTM |
| Y-4----- Include as a Drape Void in DTM | |

T.D.O.T SURVEY SMD FEATURE CODES

| CURRENT REVISION LIST | | |
|------------------------------|---|---|
| DATE | FEATURE CODE | REVISION |
| 04/27/05 | ALL | UPDATED FOR V8 |
| 02/17/06 | NA | CHANGED LAYOUT, CHANGED DESCRIPTION FOR XMHC |
| | CU, SWT, XHRAMP | CHANGED COLOR TO 64 |
| | XPL | CHANGED LOCATOR |
| 04/19/06 | CV, PIPE | CHANGED ELEVATION LEVEL |
| | 20GL | ADDED 20" GAS LINE |
| 09/22/06 | EP, RD, XBM, XCP, XTRAV, XSPUR, XH, XV, XHV | CHANGED TEXT SIZE TO MATCH CADD MANUAL |
| 11/03/06 | XTREE | CORRECTED SIZE ADJUSTMENT FEATURE |
| 12/05/07 | XCK | ADDED XCK FEATURE CODE |
| 03/25/08 | XMISC | CHANGED LEVEL |
| 05/19/09 | CV & PIPE | CHANGED ELEVATION TO TEXT LEVEL |
| 10/25/11 | ROCKW | CHANGED LINE STYLE, NEW STYLE IS FACE OF WALL |
| 6/27/2013 | GRCB | ADDED CABLE BARRIER FEATURE CODE |
| 11/19/13 | FEATURES REVISED 09/22/06 to 05/19/09 | IMPORTED REVISED FEATURES FROM OLDER SMD FILE VERSION SINCE THEY HAD BEEN UNINTENTIONALLY LEFT OUT WITH GEOPAK V8i IMPLEMENTATION |