



**DIGITAL**  
*Delivery Program*

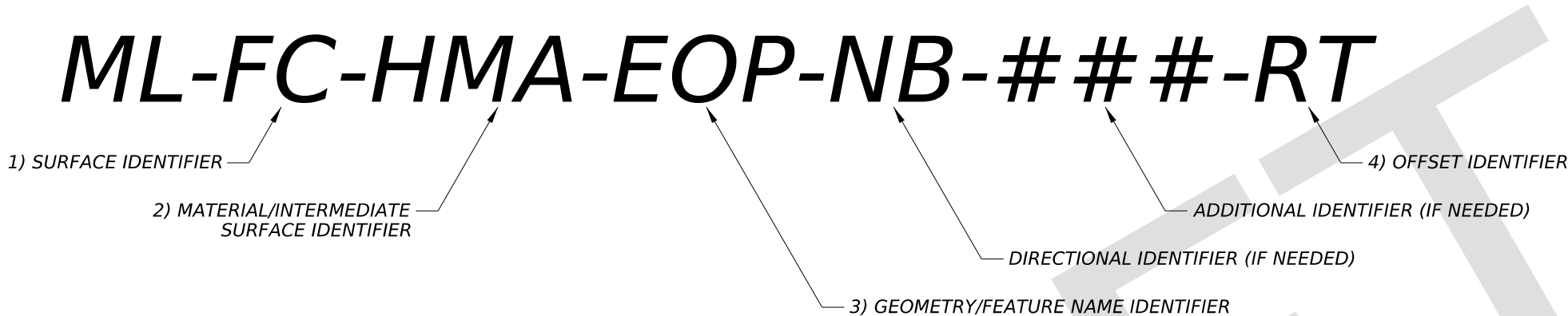
# *Texas Department of Transportation* **Digital Delivery Program**

## Template Point Naming Convention

*DRAFT - February 2025*

This documentation is in draft form and is currently being piloted by TxDOT's Digital Delivery Program.  
For any questions, comments, or feedback please send to [digital-delivery@txdot.gov](mailto:digital-delivery@txdot.gov).

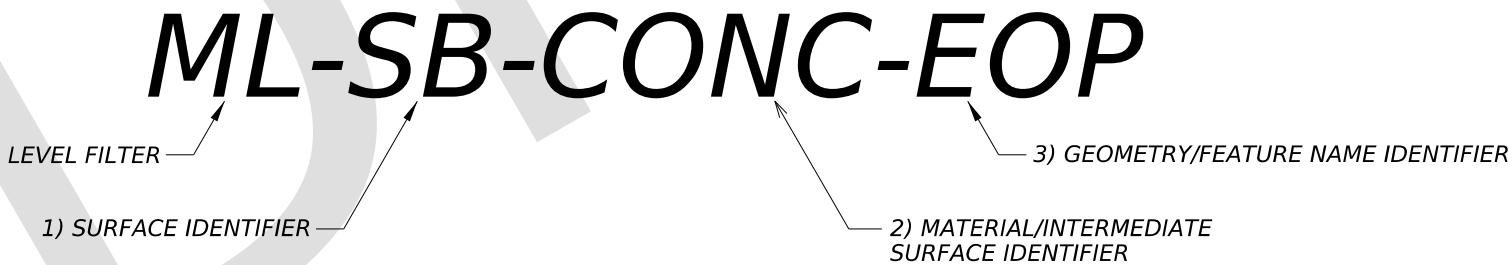
TEMPLATE POINT NAMING CONVENTION



THE PRIMARY PURPOSE OF ASSIGNING NAMES TO POINTS IN A TEMPLATE IS TO GIVE EACH POINT A UNIQUE IDENTIFIER. OPENROADS DESIGNER UTILIZES THE POINT NAMES TO DETERMINE WHICH TEMPLATE POINTS SHOULD BE CONNECTED BETWEEN EACH TEMPLATE DROP. THESE CONNECTIONS, MADE WITH 3D LINEAR ELEMENTS (3D MODEL BREAKLINES), FORM THE FOUNDATION FOR SOFTWARE TO GENERATE SURFACES.

A CLEAR POINT NAMING CONVENTION IS CRUCIAL FOR CONSISTENT, ACCURATE MODELING AND CLEAR COMMUNICATION AMONG ALL STAKEHOLDERS. IT WILL ASSIST IN REDUCING ERRORS AND MAKE MODEL MODIFICATIONS MORE EFFICIENT.

FEATURE DEFINITION NAMING CONVENTION



THE MAIN ROLE OF TEMPLATE POINT FEATURE DEFINITIONS IS TO SET PRIMARY ATTRIBUTES SUCH AS LEVEL, COLOR, WEIGHT, AND STYLE FOR THE 3D MODEL BREAKLINES CREATED DURING MODELING. THESE DEFINITIONS, TOGETHER WITH OTHER WORKSPACE COMPONENTS, INFLUENCE THE REPRESENTATION OF ELEMENTS IN DIFFERENT VIEWS WITHIN THE MODELING SOFTWARE.

TXDOT HAS CRAFTED AN EXTENSIVE SET OF POINT FEATURE DEFINITIONS TO ENABLE PRECISE DETAILING IN THE CREATION OF PROPOSED SURFACES FOR TOP, BOTTOM, AND INTERMEDIATE DESIGN LAYERS. BY FOLLOWING THESE DEFINITIONS, MODELERS CAN WORK AUTONOMOUSLY WHILE SEAMLESSLY INTEGRATING FINAL SURFACES FOR VARIOUS DESIGN ASPECTS AND LAYERS.

(1) SURFACE IDENTIFIER	
BC	BASE COURSE
BI	BINDER COURSE
BT	BOTTOM SURFACE
EG	EXISTING GROUND
FC	FINISH COURSE
GD	GRADING
NS	NO SURFACE
OV	OVERBUILD
RMV	REMOVALS
SG	SUBGRADE
SP	SPECIAL SURFACE
SU	SUBBASE
UN	UNSUITABLE MATERIAL

(2) MATERIAL IDENTIFIER	
ASB	ASPHALT STABILIZED BASE
BOT	BOTTOM BREAKLINES
BOTTOP	BOTTOM AND TOP BREAKLINE
CAM	CRACK ATTENUATING MIXTURE
CLAY	CLAY
CONC	CONCRETE
CTB	CEMENT TREATED BASE
CTS	CEMENT TREATED SUBGRADE
FATB	FLY ASH TREATED BASE
FB	FLEX BASE
GEN	GENERIC
GEOGRID	GEOGRID
GRAVEL	GRAVEL
HMA	HOT MIX ASPHALT
LABEL	LABEL ANCHOR
LTB	LIME TREATED BASE
LTS	LIME TREATED SUBGRADE
NONE	NO MATERIAL
NULL	GENERAL NULL POINTS
PAV	GENERIC PAVEMENT
PFC	PERMEABLE FRICTION COURSE
ROCK	ROCK
RRAP	RIPRAP
RWALL	RETAINING WALL
SEARCH	TEMPLATE SEARCH NULL POINTS
SMA	STONE MATRIX ASPHALT
SMAR	STONE MATRIX ASPHALT RUBBER
SOIL	TOPSOIL
SPCL	SPECIAL ITEM
SPR	SUPERPAVE
SWITCH	TEMPLATE SWITCHES NULL POINTS
TBPF	THIN BONDED PERMEABLE FRICTION COURSE
TBWC	THIN BONDED WEARING COURSE
TOM	THIN OVERLAY MIXTURES

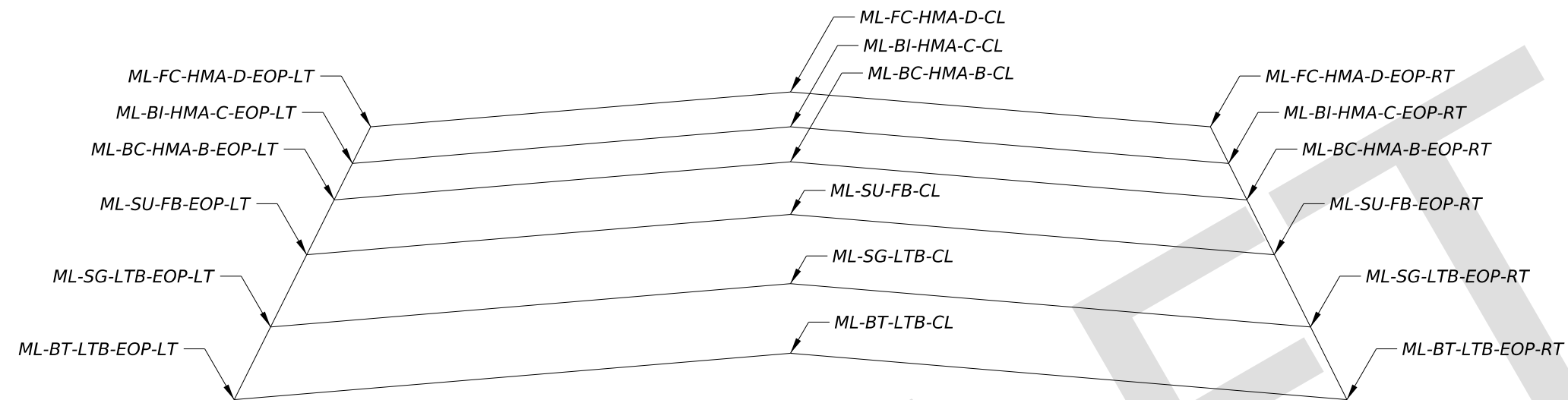
(3) GEOMETRY/FEATURE NAME IDENTIFIER	
AUX	AUXILIARY
BAR	BARRIER
BARFACE	BARRIER FACE
BARFLNG	BARRIER FLANGE
BARFLOW	BARRIER FLOWLINE
BARTOP	BARRIER TOP
BERMBACK	BERM BACK
BERMBACKBNK	BERM BACK OF BANK
BERMBOT	BERM BOTTOM
BERMBRK	BERM GENERIC BREAKLINE
BERMCL	BERM CENTERLINE
BERMFL	BERM FLOWLINE
BERMFRONT	BERM FRONT
BERMFRONTBNK	BERM FRONT OF BANK
BERMTOP	BERM TOP
BOTTOM	BOTTOM
BRK	GENERIC BREAKLINE
CHAN	CHANNEL
CHANBACKBNK	CHANNEL BACK OF BANK
CHANBOT	CHANNEL BOTTOM
CHANBRK	CHANNEL GENERIC BREAKLINE
CHANCL	CHANNEL CENTERLINE
CHANFL	CHANNEL FLOW LINE
CHANFRONTBNK	CHANNEL FRONT OF BANK
CHANTOP	CHANNEL TOP
CURB	CURB
CURBFACE	CURB FACE
CURBFLNG	CURB FLANGE
CURBFLOW	CURB FLOWLINE
CURBTOP	CURB TOP BACK
CUT	CUT
CUTBERM	CUT SLOPE BERM
CUTTIE	CUT TIE OF SLOPE
CUTTOE	CUT TOE OF SLOPE
CZONE	CLEARZONE
DAYLT	DAYLIGHT POINT
DITCH	DITCH
DITCHBACK	DITCH BACKSLOPE
DITCHBOT	DITCH BOTTOM
DITCHCL	DITCH CENTERLINE
DITCHFL	DITCH FLOWLINE
DITCHFRONT	DITCH FRONT
DITCHIN	DITCH INSIDE EDGE
DITCHOUT	DITCH OUTSIDE EDGE
EOL	EDGE OF LANE
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SHOULDER
FILL	FILL
FILLTIE	FILL SLOPE TIE
FILLTOE	FILL SLOPE TOE
HANDRAIL	HAND RAIL
HANDRAILBOT	HAND RAIL BOTTOM
HANDRAILTOP	HAND RAIL TOP
LANE	GENERIC LANE

(3) Geometry/Feature Name Identifier (continued)	
LINER	LINER
LINERBACKBNK	LINER BACK OF BANK
LINERBOT	LINER BOTTOM
LINERBRK	LINER GENERIC BREAKLINE
LINERCL	LINER CENTERLINE
LINERFL	LINER FLOWLINE
LINERFRONTBNK	LINER FRONT OF BANK
LINERTOP	LINER TOP
MBGF	METAL BEAM GUARD FENCE
MBGFBACK	METAL BEAM GUARD FENCE BACK
MBGFBLOCK	METAL BEAM GUARD FENCE BLOCK
MBGFBLOCKBOT	METAL BEAM GUARD FENCE BLOCK BOTTOM
MBGFBLOCKTOP	METAL BEAM GUARD FENCE BLOCK TOP
MBGFBOT	METAL BEAM GUARD FENCE BOTTOM
MBGFFRONT	METAL BEAM GUARD FENCE FRONT
MBGFGRADE	METAL BEAM GUARD FENCE GRADE TARGET
MBGFTOP	METAL BEAM GUARD FENCE TOP
MED	MEDIAN
PEDRAIL	PEDESTRIAN RAILING
PEDRAMP	PEDESTRAIN RAMP
PONDBACKBNK	POND BACK OF BANK
PONDBOT	POND BOTTOM
PONDBRK	POND GENERIC BREAKLINE
PONDCL	POND CENTERLINE
PONDFL	POND FLOWLINE
PONDFRONTBNK	POND FRONT OF BANK
PONDTOP	POND TOP
RIPRAP	RIP RAP
RWALLBOT	RETAINING WALL BOTTOM POINTS
RWALLBRK	RETAINING WALL GENERIC BREAKLINE
RWALLCOPING	RETAINING WALL COPING
RWALLCTR	RETAINING WALL CENTER
RWALLEDGE	RETAINING WALL EDGE
RWALLFLANGE	RETAINING WALL FLANGE
RWALLTOP	RETAINING WALL TOP
SHLDR	SHOULDER
SLOPEBACKBNK	BACK OF BANK
SLOPEBOTBNK	BOTTOM OF BANK
SLOPEFRONTBNK	FRONT OF BANK
SLOPETOPBNK	TOP OF BANK
STAB	SOIL STABILIZATION
STABBACKBNK	SOIL STABILIZATION BACK OF BANK
STABBOT	SOIL STABILIZATION BOTTOM
STABBRK	SOIL STABILIZATION GENERIC BREAKLINE
STABCL	SOIL STABILIZATION CENTERLINE
STABFL	SOIL STABILIZATION FLOWLINE
STABFRONTBNK	SOIL STABILIZATION FRONT OF BANK
STABTOP	SOIL STABILIZATION TOP
SW	SIDEWALK
SWBRK	SIDEWALK GENERIC BREAKLINE
SWCRAMP	SIDEWALK OUTSIDE CURB RAMP
SWIN	SIDEWALK INSIDE (FRONT OF WALK)
SWOUT	SIDEWALK OUTSIDE (BACK OF WALK)

(4) OFFSET IDENTIFIER	
BACK	BACK
BASELINE	BL
BOTTOM	BOT
CENTERLINE	CL
FLOWLINE	FL
FRONT	FR
INSIDE	IN
LEFT	LT
MEDIAN	MED
MIDDLE	MID
OUTSIDE	OUT
RIGHT	RT
TOP	TOP

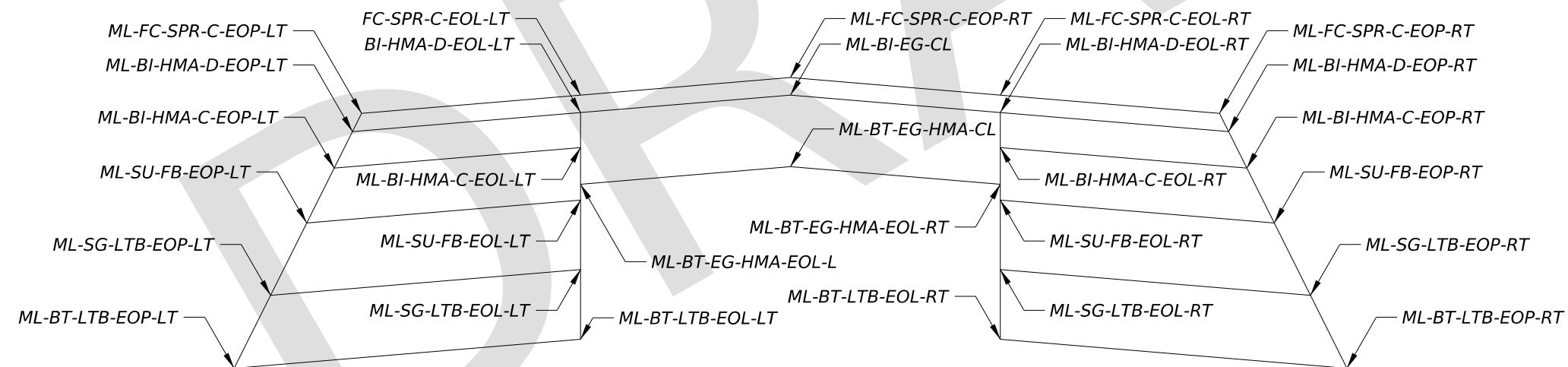
NOTE: IDENTIFIER NAMING TO BE INCORPORATED THROUGH FUTURE WORKSPACE RELEASES.  
SEE TXDOT'S DIGITAL DELIVERY WEBSITE FOR MORE INFORMATION.





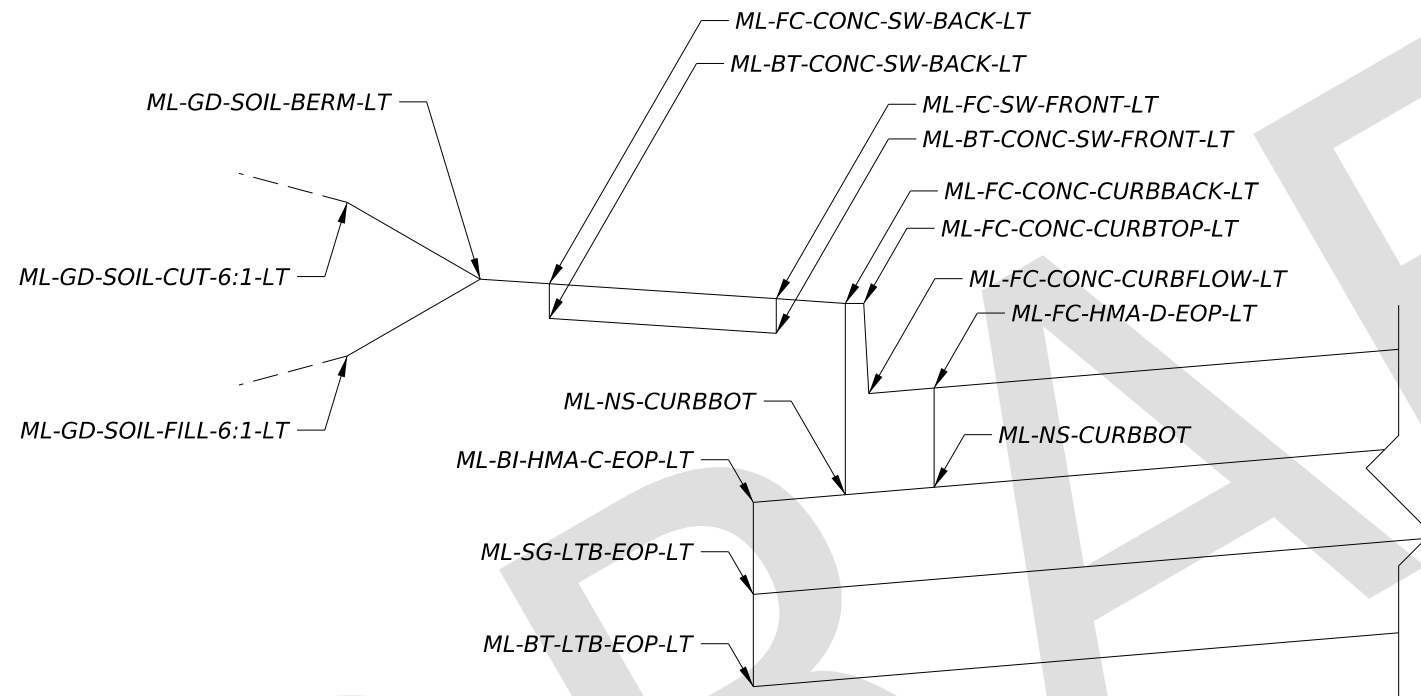
## SINGLE SLOPE PAVEMENT SECTION - UNDIVIDED

TEMPLATE POINT NAMING CONVENTION



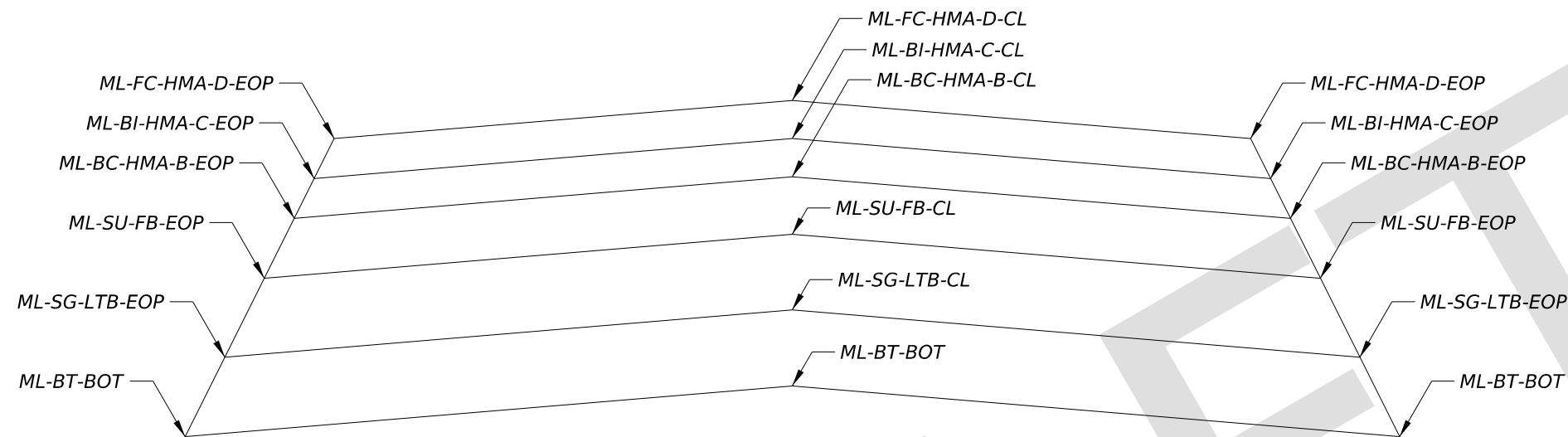
## SAWCUT PAVEMENT SECTION - UNDIVIDED

TEMPLATE POINT NAMING CONVENTION



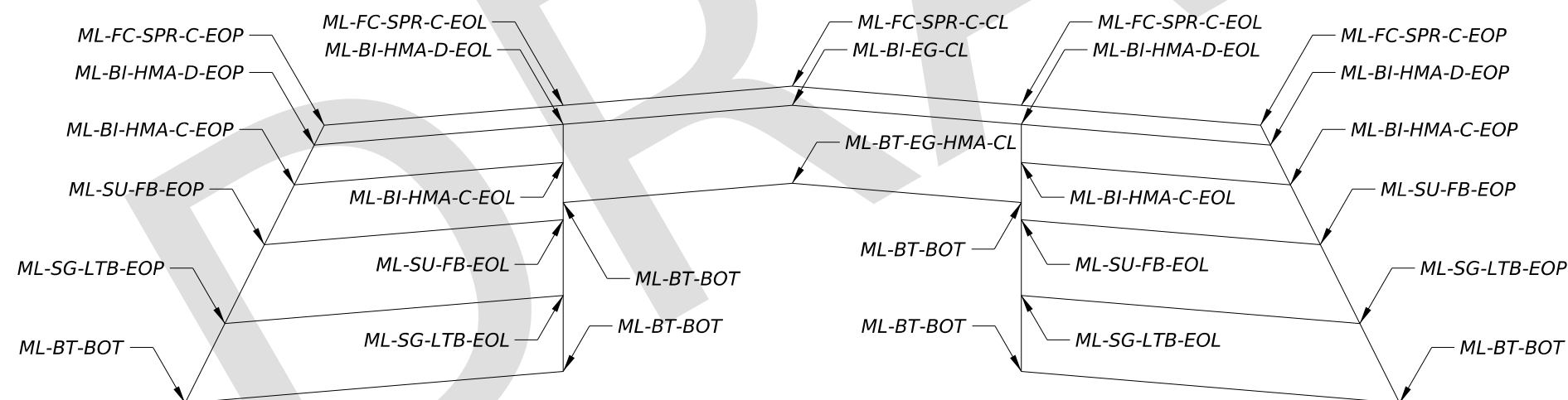
## **CURBED PAVEMENT SECTION WITH SIDEWALK**

TEMPLATE POINT NAMING CONVENTION



## SINGLE SLOPE PAVEMENT SECTION - UNDIVIDED

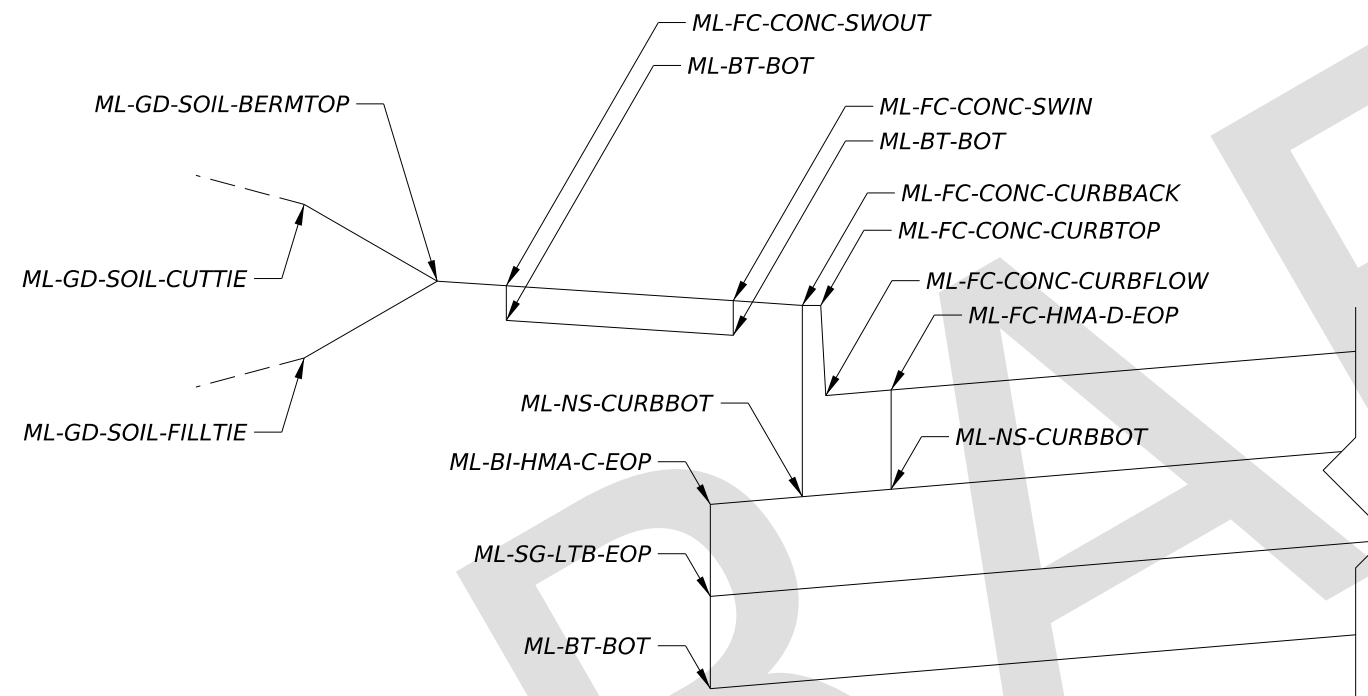
FEATURE DEFINITION NAMING CONVENTION



## SAWCUT PAVEMENT SECTION - UNDIVIDED

FEATURE DEFINITION NAMING CONVENTION

NOTE: FEATURE DEFINITION NAMING CONVENTION WILL MATCH THE NAMING CONVENTION OF THE LEVEL NAMES FOR THE 3D MODEL BREAKLINES THAT ARE GENERATED FROM THE CORRIDORS. SEE TXDOT'S DIGITAL DELIVERY WEBSITE FOR GUIDANCE ON THE 3D MODEL BREAKLINE CURATION PROCESS.



## CURBED PAVEMENT SECTION WITH SIDEWALK

FEATURE DEFINITION NAMING CONVENTION

NOTE: FEATURE DEFINITION NAMING CONVENTION WILL MATCH THE NAMING CONVENTION OF THE LEVEL NAMES FOR THE 3D MODEL BREAKLINES THAT ARE GENERATED FROM THE CORRIDORS. SEE TXDOT'S DIGITAL DELIVERY WEBSITE FOR GUIDANCE ON THE 3D MODEL BREAKLINE CURATION PROCESS.