

MARCH 2018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY

The <u>Computer Aided Design and Drafting (CADD) Standards Manual</u> dated March 2018 replaces the previous version dated March 2017.

Major Highlight Revisions

- Section D: Revised Resource Files to include True Type Fonts
- Section H: Revised Submittal Requirements to include more direction on CADD file submittals

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INTRODUCTION

This mission of the Illinois Tollway is to provide and promote a safe and efficient system of highways while ensuring the highest possible level of service to its customers. The successful project has efficient and fluid communication, and stays on budget and schedule. For this to occur, it is of the utmost importance that plan sets developed by consultants are accurate, uniform, and easy to follow. For these reasons, it is essential that a common set of CADD standards are established and utilized.

The purpose of this manual is to provide general guidance for the preparation of Illinois Tollway drawings using MicroStation PowerGEOPAK V8i SELECTseries 4. This manual assumes the CADD user is familiar with the software and makes no attempt to instruct the user on specific commands. It is intended to supplement other state and national drafting reference guides, and users should reference these sources for training or detailed instruction.

The Illinois Tollway's workspace should be referenced for roadway and bridge design. In cases where building designs include architectural, mechanical, and interior electrical design, the NCS CADD Standard may be followed for drafting. The Illinois Tollway workspace was designed as a guide for engineering consultants. The Illinois Tollway encourages ingenuity; therefore, if the designer believes he/she has a more efficient way of completing the project, this should be discussed with the Illinois Tollway Project Manager before deviating from these standards. As of the publication date of this manual, all projects shall be required to comply with the standards and guidelines established herein.

The "CADD Standards Manual" is prepared and distributed by the Illinois Tollway. This manual is compliant with the Design Section Engineer's (DSE) Manual and Construction Manager (CM) Manual. This document supersedes the ICAPP manual. It is intended to be a new guideline and is not a revision to the discontinued ICAPP manual. With IDOT's recent release of the draft version of their new Computer Aided Design, Drafting, Modeling and Deliverables Manual, this CADD Standards Manual may be revised to reflect IDOT's final version.

MAINTENANCE OF STANDARDS

The information and data described in the CADD Standards Manual is not intended to be a static document and is subject to change. Organizations exchanging Illinois Tollway data are responsible for ensuring that they are using the current version of these standards. This manual may be updated from time to time based on the following factors:

- 1. The Illinois Tollway deems it necessary to change or append their current standards.
- 2. There are significant changes to IDOT's Computer Aided Design, Drafting, Modeling and Deliverables Manual.
- 3. There are significant advances in technology or modifications to software that change the way drawings are produced.

Any questions or concerns regarding this manual should be directed to the Illinois Tollway's Project Manager, who will forward the question/concern to the Illinois Tollway's CADD Manager.

More information may be found on the following web sites:

Illinois State Toll Highway Authority http://www.illinoistollway.com

Illinois Tollway CADD Standards <u>https://www.illinoistollway.Manuals</u>

Illinois Department of Transportation <u>http://www.idot.illinois.gov/</u>

Bentley Systems, Inc. <u>http://www.bentley.com</u>

Computer Aided Design and Drafting Standards

A. General

The standards and guidelines detailed in this document are to be used on all CADD work produced for the Illinois Tollway. Each Design Section Engineer (DSE), Construction Manager (CM) and Permit Applicant shall be responsible for ensuring that the standards and guidelines are followed on their project. Existing CADD work obtained from other sources shall be converted to meet the guidelines established herein at no cost to the Illinois Tollway. Complete MicroStation, GEOPAK, and Subsurface Utility Design Analysis (SUDA) project files are required at the time of Final plan submittal.

B. Program Software

The Illinois Tollway utilizes Bentley MicroStation and GEOPAK V8i SELECTseries 4 (08.11.09.878 or the most current version) as the CADD platform.

C. Project Initiation

To begin an Illinois Tollway project the following steps should be taken:

- 1. Reference the latest version of the:
 - Illinois Tollway CADD Standards Manual.
 - IDOT CADD Manuals.
 - NCS CADD Standards Manual.
- 2. Collect any existing electronic files that may exist. The Illinois Tollway may have electronic files of the project area.
- 3. Download the latest version of the Illinois Tollway's workspace. See the readme.docx inside the ILTOLLWAY\DOCUMENTS folder for setting up the workspace.
- 4. Use the appropriate Illinois Tollway seed file to create new design files as needed. The working units of these seed files are set to survey feet for the master units and survey inches for the sub-units.

D. Resource Files

All resource files needed are included in the Illinois Tollway Workspace.

The Illinois Tollway Workspace is implementing the use of True Type Fonts. The workspace now includes new text styles and dimension styles using the FDOT True Type Font. The workspace now includes new text styles and dimension styles using the FDOT True Type Font.

Illinois Tollway Workspace file location:

WBPM Folder: 0016 \ Documents \ Consultant Information \ CADD

or

http://www.illinoistollway.com/doing-business/construction-engineering/manuals/

E. File Naming Convention

Naming conventions for electronic drawing files allow users to determine the contents of the file without actually displaying it. They also provide a convenient and clear structure for organizing drawing files within the project directory.

See Appendix A for File Naming Conventions.

F. CADD File Concepts

There are two distinct types of MicroStation files, **Sheet** and **Design**.

- 1. **Sheet files** shall be used to assemble contract drawings. Each sheet file will produce one drawing for plotting and will contain references to the project border file and all necessary design files.
 - Sheet files may contain: design file references, north arrow, match lines, graphic scales, notes specific to the drawing, revision clouds, title block information and file name (locate in the lower left margin).

- 2. **Design files** are used for the design of project elements. These files will be created for plans, details, section and elevations. The elements in each design file shall be drawn true scale (1:1). Design files can contain multiple models, especially when using annotation scale and different scaled models are desired.
 - Design files can also be used as "container" or "model". These files should not contain any elements. They group other design files together and create a nested reference scheme. The container/model can then be referenced into several different sheet files to produce the same look for each by controlling the level attributes in one place. A design team may choose to restrict the nesting depths of container files to affect sheet performance at their own discretion. Section 2-5 of the IDOT Computer Aided Design, Drafting, Modeling and Deliverables Manual offers additional guidance.

G. Settings

Consider using the settings provided in the Illinois Tollway workspace. These settings include: but are not limited to: levels, features, text, dimensions, line styles, cell libraries, standard symbols, title blocks, borders, base sheets, and printing.

All text shall be vertical UPPERCASE lettering. Standard symbols such as section, detail and elevation callouts, and revision bubbles should be placed using the MicroStation "Detailing Symbols" menu.

H. Submittal Requirements

See Illinois Tollway DSE Manual for submittal requirements.

To preserve the integrity of the CADD files, additional direction is being provided to consultants on how to submit a project's CADD files. Regardless of the method used to transfer the files, directions to access the files shall be placed on the Illinois Tollway's Web Based Project Management (WBPM) System, and all files should be able to be opened by the Illinois Tollway without having to re-attach any reference files.

Consultants utilizing ProjectWise

Consultants utilizing ProjectWise shall provide a folder, named with the project's milestone, for each submittal. The project's folders and any associated files shall be placed in this folder. A Word or PDF file shall be placed on the Illinois Tollway's WBPM system containing directions and all information needed to access the project files hosted on ProjectWise. This includes: ProjectWise Network Configuration Settings, a username, a password, and proper permissions to access and download the project's files.

Consultants NOT utilizing ProjectWise

Consultants not utilizing ProjectWise may choose to transfer the files by either using the consultant's FTP site or using the Illinois Tollway's WBPM system. Directions for each are given below.

Utilizing the consultant's FTP site

A Word or PDF file shall be placed on the Illinois Tollway's WBPM system containing all information needed to access the project files located on the consultant's hosted FTP site. This includes a link to the FTP site, a username, a password (if applicable), and proper permissions to access and download the project's files.

Utilizing the Illinois Tollway's WBPM system

A Word or PDF file shall be placed on the Illinois Tollway's WBPM system to detail the folder structure used on the project. The project folder structure, containing empty folders, shall be compressed and uploaded to the WBPM system. All files within those folders shall be compressed by folder(s), depending on size, and uploaded to the WBPM system.

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I. Superelevation

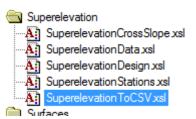
Superelevation settings have been created to assist designers in developing superelevation along roadways, utilizing current Illinois Tollway and AASHTO standards. These settings shall be verified against the appropriate standards. The two superelevation settings files have been made for superelevation creation in SSR.

- ILTOLLWAY-SUPERELEVATION-MAINLINE.sep To be used for mainline alignments using a design speed of 60 & 70 mph with an emax of 6%.
- 2) ILTOLLWAY-SUPERELEVATION-RAMP.sep To be used for all forms of ramps, including directional, for 6% and 8% emax for design speeds of 20, 25, 30, 35, 40, 45, and 50 mph.

To assist the stringless paving technologies, it is recommended that parabolic transitions are adopted for superelevation, in accordance with the Roadway Design Criteria. The following workflow has been identified as a method for achieving this:

- Follow the superelevation general workflow, as specified in SS4 Help

 Make sure the appropriate .sep file is selected when creating this
- 2) Create superelevation report, as specified in SS4 Help
- 3) Select "SuperelevationToCSV.xsl"



- 4) Copy contents of the report into a new .csv file
- Change sixth column input in "Transition ID" from liner to parabolic a. Enter PC for parabolic in place of L
- 6) Assign as desired nonlinear curve length value to 70 for mainline or 50 for ramp in column 7
- 7) Re-import .csv via superelevation editor and verify changes have been made

Superelevation configuration settings have been set up for a design speed of 70 mph with 13 foot lanes. For assistance adjusting these settings, there are PDFs provided in the superelevation folder within the workspace. For assistance manipulating the .csv file, refer to IMPORT-SUPER-FORMAT.xlsx, located in Documents folder within the workspace.

J. Subsurface Utility Engineering and Subsurface Utility Design and Analysis (SUE/SUDA)

SUDA is a new feature for modelling underground utilities. The Illinois Tollway has implemented several specific drainage items to utilize in the hydraulic modeling process. The workspace also features standard flex tables that can be utilized in projects to transfer data into plan sets. SUDA default settings can be modified in: ILTOLLWAY\SS4\DESIGN\ DGNLIB\ILTOLLWAY-LEVELS-HYDRAULIC SEED.dgnlib. To launch the SUE/SUDA application, see the picture below. This menu bar also displays the current drainage software being used.

<u>T</u> ools	<u>M</u> ain	Window Subsurface Utility Help Tollway Drafting Tools
	Product Add-Ins	Activate Descartes
	✓ <u>T</u> asks	Subsurface Utility Design and Analysis
	Animation •	Current Hydraulic Analysis Product (StormCAD 100 Inlets)
	Base Geometry	

K. Cross Sections

Cross section setting have been developed for Illinois Tollway's use within SS4. Instructions to load the settings are outlined below. It is recommended to use "stack layout" for cross sections to ensure the proper use of cross section sheeting set-up files and legacy labeling tools, including ancillary features.

To load cross section settings, select "Preferences" within the "Create Cross Section" command. Load the settings provided.

Image: Corridor Modeling Image: Create Cross Section Image: Create Cross Section Image: Create Cross Section Image: Create Cross Section Image: Create Cross Section Image: Create Cross Section Image: Create Cross Section Image: Controls Spacing Image: Controls Spacing Image: Controls Sheet Image: Controls S	lasks 🖉 🖞 🤻	📉 🕡 View 1 - Top, 3D
Image: Section Create Cross Section Image: Section Image: Section Image: Section Imag	👭 Corridor Modeling	
Image: Section of the end of the en	Create Cross Section	
Preferences Vertical Exaggeration: 50000 ILTOLLWAY-XS-CELLS Load Display in View: 1 Save Save Model Name: Scale: Full Size	W Image: Controls E Image: Controls R Image: Controls T Image: Controls T Image: Controls Sheet	Single Station: 0+00.00 Start Station: 0+00.00 Stop Station: 46+02.29 Left Offset -100.0000
Rename	News. ILTOLLWAY-XS-CELLS Load Save Save As Delete Rename	Vertical Exaggeration: 5,000 Display in View: 1 Layout Model Name:

To load cross section annotation settings, select "Preferences" within the "Annotate Cross Section" command. Load the settings provided.

🖁 Corridor Modeling	
▞᠋ᠴᠯ᠕ᡘ᠉ᡸ	
f Corridor Modeling	
a 🎛 丼 🍴 🏹 🚔 Annotate Cross Section	
	Surface:
	Limits
R 😪 🔆 💥 🔄 Annotate Cross Section	Station Range
T 🧿 🙀 ∰ 👭 — 🖗 General	Start 🖉 🔶
A 🚅 🎷 🦻 🧷 🖻 Features	Stop:
Segments Frame	
	Location
Preferences	Object O Axis Frame
ILTOLLWAY-XS-ANNOTATION	
Load	
Save	
Save As	
Delete	Apply Preferences Close Help
Rename	
Help	

These annotation settings will annotate all desired points with elevation and offset from the alignment, as well as slopes between these points.

To load the end-area calculation settings, select "Preferences" within the "End-Area Volumes" command. Load the settings provided.

Corridor Modeling	⊷ 🧶 🛓 ବ୍ ବ୍ 와 🖽 🐇	t 🕙 89 🖂 🖂	l: V. 🞗 G		
⋽⋥⋧⋰⋬⋰⋥⋰⋧⋰⋤					
Corridor Modelin End-Area Volumes	*			c	X
Cross Section Model: Cross Section Model:	Surface Type		Method Standard Correct for Cu Limits Station Rang Start Stop:	e	▼ * ▼ *
Load LTOLLWAY-XS-EARTHWORKS Load Save Save Save As Delete Rename Help	Imperial Units Cubic Yards Cubic Fe Create XML Report	set	Ignore Areas Sma	0.000	1
		Apply	Preferences	Close	Help

All cross section sheeting, annotation, and end area method preferences are found within the XIN file, located at ILTOLLWAY\SS4\DESIGN\MODELING\XIN\ILTOLLWAY-XIN-DESIGN.XIN.

L. Naming Convention

Naming conventions that are inconsistent in its use of characters lead to lack of organization and quality. Standardized wording and alphanumeric usage are used to be more intuitive and less prone to user error, especially on large jobs with multiple designers. With a standard naming convention, plan production, verification and quality control, and eventual contractor work can understand what each element represents. The Illinois Tollway has provided a method for naming alignments, profiles, and corridors, which is explained in the Documents folder in the workspace.

Key identifiers like what contract the alignment belongs to, the type of alignment it is, where it is, what road it belongs to, etc. all need to be named in such a way that the name is unique but easily identifiable to the designer, reviewer, and those constructing the project. The number of characters is also essential as MicroStation has limits in its name. The larger the name, the harder it is for users to quickly identify what the element is.

M. Template Library

The Illinois Tollway has developed a standard template library covering general roadway components for use by designers to develop a proposed model. The template library is located at ILTOLLWAY\SS4\DESIGN\MODELING\TEMPLATES\ILTOLLWAY-TEMPLATES-DESIGN.itl. Operational instructions of the templates may be found within the Document folder in the workspace. The file is titled "ILTOLLWAY-TEMPLATE-OPERATIONS.xlsm." This library may be modified per project as needed.

It is recommended that all templates that are built contain a component using the feature "XS-ZTP" which represents the top surface of the design, and a component using "XS-ZBT" which represents the bottom subgrade surface of the design. Customized graphic filters used for developing terrain models utilize these features. Grading models and earthwork surfaces can be developed quickly and efficiently due to these components because you can use one graphic filter to pick up one level. *Instead of picking different levels to determine the top surface, you should pick the same level.*

N. 3-D Engineered Models

All 3-D Engineered Models shall be delivered as CADD, Breakline and Surface files, in the following formats:

- All CADD Models shall be provided in their native CADD format as well as 3-D DGN files.
- Breakline files shall be provided as a LandXML file. The "Export to Native" command in OpenRoads General Geometry tab will allow the user to convert breaklines to a LandXML file.
- Surface files shall be provided as a LandXML file. The "Export to File" command in OpenRoads Terrain Model tab will allow the user to convert a surface (terrain model) to a LandXML file.

O. Sheet Revisions

After contract plans have been posted for bidding, revisions or changes to the plan sheets may be required in the form of an "Addendum" or "Construction Revision".

In the event that a sheet is to be added to the contract plans, the entire sheet shall be "bubbled" and noted as such in the description. When a sheet is to be removed from the contract plans, the entire sheet shall be "bubbled" and labeled as intentionally left blank. All other revisions shall only "bubble" the change, as depicted in the example in Appendix B.

Appendix A - File Naming Convention

Appendix A – File Naming Convention

File naming will follow the convention described below. Recognizing that using this naming convention may not cover all circumstances, if additional or unique file names are required, the file naming may be modified to accommodate the circumstances. If a new file name is needed that is not listed, please follow the template to create it.

Sheet files:

####-sht-Description-###.dgn

Contract #=	Illinois Tollway Contract Number (for Contract "I-14-8944" use 8944)
sht =	Designates that it is a sheet file
Description =	Brief word to describe the file
File # =	File Number

Example: 8944-sht-typical-001.dgn (Typical Sheet Example for contract I-14-8944)

Design files:

####-Description.dgn

Contract # = Illinois Tollway Contract Number (for Contract "I-14-8944" use 8944) Description= Brief word to describe the file

Example: **8944-align.dgn** (Survey Alignment Design file for Contract I-14-8944) **Description Examples**

<u>General</u>

asphalt	Asphalt Selection Chart
border	Border Sheet
cover	Cover Sheet
dowel	Dowel Bar Layout Sheet
gennote	General Notes
index	Index of Sheets
lgnd	IgndSymbol Legend & Abbreviations
key	Key Map
schprog	Suggested Progress Schedule
schew	Earthwork Schedule
schqty	Schedule of Quantities
seals	Professional Seals and Signatures
soq	Summary of Quantities
typical	Typical Sections

Surveying aerial align contour gshot Igndsur poh row topo	Aerial Survey and Mapping Plan Alignment Data File Existing Contours Plan XYZ ground shots file Survey Legend Plat of Highways Plan Land Acquisition work file Topography plan conditions of project area
MOT mot# mot#label motdetour motnote motsign	Maintenance of Traffic Plan - Stage # Maintenance of Traffic Label Plan - Stage # Maintenance of Traffic Detour Plan Maintenance of Traffic General Notes & Sequence of Construction Maintenance of Traffic Signing Details

Roadway

3Dmodel	3D Model
lgndrdy	Roadway Legend
lgndrem	Removal Legend
rdy	Roadway Plan
rdydetail	Roadway Details
rdylabel	Roadway Labeling
rdynote	Roadway General Notes
rdyprf	Roadway Profile
rem	Existing Roadway & Removal Plan
remlabel	Removal Labeling

Pavement Jointing/Elevations & Grading

3Dfg	3D Proposed Finish Grade
3Dsg	3D Proposed Sub-grade
goreelev	Gore Elevation Details
lgndpvtjoint	Pavement Jointing Legend
pvtelev	Pavement Elevation Plan
pvtjoint	Pavement Jointing Plan
grading	Grading Plan

Pavement Marking & Signing

lgndpmk	Pavement Marking Legend
Igndsigns	Signing Legend
pmk	Pavement Marking Plan
pmklabel	Pavement Marking Labeling
pmknote	Pavement Marking Notes
signs	Roadway Signing
signslabel	Roadway Signing Labels
signsnote	Roadway Signing Notes
-	

Cross Sections

xsc

Landscaping & Erosion Control **Erosion and Sediment Control Plan** eros eros0 Initial Erosion Control Plan Initial Erosion Control Plan eros0label eros# Erosion Control Plan – Stage # Erosion Control Plan – Stage # eros#label **Erosion and Sediment Control Plan** eroslabel **Erosion and Sediment Control Notes** erosnote **Erosion Control Schedule of Quantities** erossch Erosion and Sediment Control Legend landeros IgndIndscp Landscaping Legend Indscp Landscaping Sheets Landscaping Details Indscpdetail Landscaping Labeling Indscplabel Indscpnote Landscaping Notes Indscpsch Landscaping Schedule of Quantities WOUS & Wetland Delineation File wetland Drainage drain Drainage Plan drainbndyex **Existing Drainage Boundaries Proposed Drainage Boundaries** drainbndypr draindetail **Drainage Details** Drainage Labeling drainlabel drainnote **Drainage General Notes** Drainage Profile drainprf **Existing Drainage and Removals** drainrem **Drainage Removal Labeling** drainremlabel Drainage Schedule drainsch **Drainage Legend** Ignddrain **Drainage Removal Legend** Ignddrainrem Igndundrn Pipe Underdrain Legend Pipe Underdrain Plan undrn Pipe Underdrain Labeling undrnlabel undrnsch Pipe Underdrain Schedule Utilities Igndutil Utility Legend Sub-surface Utility Engineering sue util Utility Plan (Water, Sanitary Sewer, Storm Sewer, Power, Fiber Optic, Telephone, Cable TV, Natural Gas, Communications, ITS & Toll Collection) Utility Details utildetail Utility Labeling utillabel utilmatrix **Utility Matrix Utility General Notes** utilnote Utility Profile utilprf utilrem Utility Removals

Intelligent Transportation System

intelligent fransportation bystein		
fo	Fiber Optic Plan	
fodetail	Fiber Optic Details	
folabel	Fiber Optic Labeling	
its	Intelligent Transportation System	
itsdetail	ITS Details	
itslabel	ITS Labeling	
itsnote	ITS General Notes	
itssch	ITS Schedule of Quantities	
Igndits	ITS Legend	
Igndtoll	Toll Collection Legend	
toll	Toll Collection Plaza Plans	
tolldetail	Toll Collection Plaza Details	
tollsch	Toll Collection Schedule of Quantities	

Roadway Lighting

Roadway Lighting Plan
Lighting Details
Lighting Labeling
Lighting General Notes
Lighting Schedule of Quantities
Lighting Legend
Temporary Lighting Legend
Temporary Roadway Lighting Plan
Temporary Lighting Details
Temporary Lighting Labeling
Temporary Lighting Schedule of Quantities

Traffic Signals

Intersec	Intersection Detail Sheets
ts	Traffic Signal Plans
tsdetails	Traffic Signal Details
tslabels	Traffic Signal Labels
tssch	Traffic Signal Schedule of Quantities
tts	Temporary Traffic Signal Plans
ttsdetails	Temporary Traffic Signal Details
ttslabels	Temporary Traffic Signal Labels

Structural	
abut	Abutment (Plan, Elevation, Sections and Details)
anchbolt	Anchor Bolt Details
apprslab	Approach Slab Details
barrier	Barrier Details
barsplice	Bar Splicer Assembly
bcr	Bridge Condition Report
bearing	Expansion and Fixed Bearing Details
boring	Soil Boring Logs
cantilever	Cantilever Forming Brackets
deck	Deck (Plan, Sections and Details)
demo	Demolition
diaphragm	Diaphragm Details
expjoint	Expansion Joint Details
exstr	Existing Structures
fndtn	Foundation Plan Footing Layout
frame	Girder & Framing Plan
gpe	General Plan and Elevation
grdrelev	Girder Elevations (Camber Table, Moment Table)
nwall	Noise Abatement Wall
parapet	Parapet (Elevations and Details)
pier	Pier (Plan & Elevation and Details)
railing	Railing Details
rwall	Retaining Wall
staging	Construction Staging
stldtl	Steel Details
strucdrain	Drainage (System Details and Scupper Details)
strucnote	Structures Data (General Notes, Bill of Material, Index of Drawings)
strucrem	Existing Structural Removal
strucrpt	Structural Project Reports
strucsch	Structural Schedule
strucsec	Structural Section
topSlab	Top of Slab (Elevation Locations and Tables)
tsl	Type Size Location
xframe	Cross Frame Details

Soil Boring Logs

blog	Boring Log Sheets
soil	Soil Report Plan Sheets

Buildings	
archdemo	Architectural Demolition
archdtl	Architectural Details
archelev	Architectural Elevation
archenlrg	Architectural Enlarged
archeqpt	Architectural Equipment
archex	Architectural Existing
archfloor	Architectural Floor Plan
archlgnd	Architectural Legend
archschdl	Architectural Schedule
archsctn	Architectural Sections
archroof	Architectural Roof Plan
elecauxlrypwr	Electrical Auxiliary Power
elecdemo	Electrical Demolition
elecdgrm	Electrical Diagram
elecdtl	Electrical Detail
elecex	Electrical Existing
elecightng	Electrical Lighting
elecignd	Electrical Legend
elecschdl	Electrical Schedule
elecutitys	Electrical Utilities
elecpower	Electrical Power Plan
elecspclsystm	Special Systems Plan
mechhvac	Mechanical HVAC
mechdemo	Mechanical Demolition
mechdgrm	Mechanical Diagram
mechdtl	Mechanical Detail
mechelev	Mechanical Elevation
mechenlrg	Mechanical Enlarged
mecheqpmnt	Mechanical Equipment
mechex	Mechanical Existing
mechlgnd	Mechanical Legend
mechschdl	Mechanical Schedule
mechsctn	Mechanical Section
plumdemo	Plumbing Demolition
plumdgrm	Plumbing Diagram
plumdtl	Plumbing Detail
plumelev	Plumbing Elevation
plumenIrg	Plumbing Enlarged
plumeqpmnt	Plumbing Equipment
plumex	Plumbing Existing
plumlgnd	Plumbing Legend
plumschdl	Plumbing Schedule
plumsctn	Plumbing Section
plumbing	Plumbing
piping	Special Piping
· · · •	

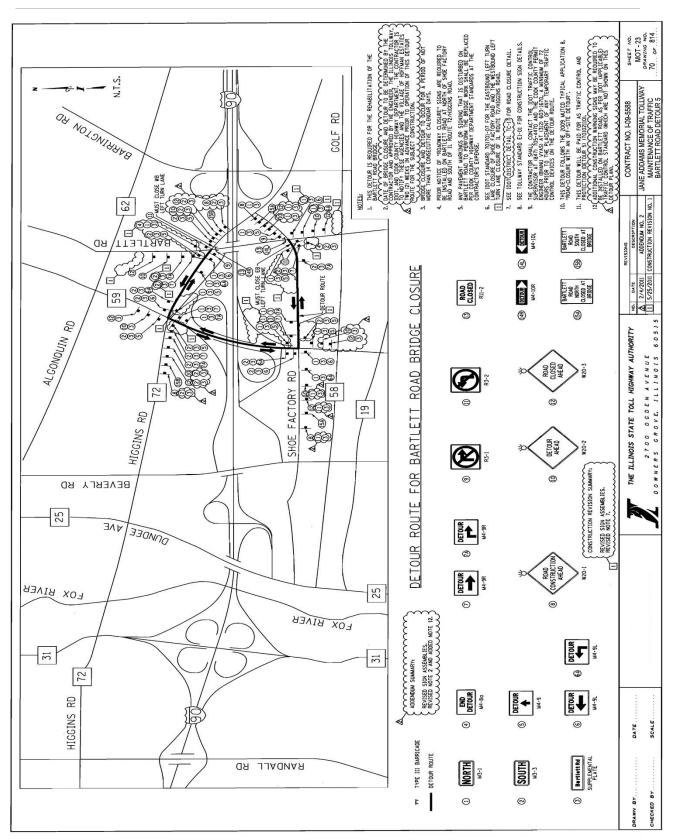
For Alternate designs, Staging, Structure numbers, Master Model files and Multiple discipline sheets, characters shall be added to the end of the file name as needed.

Examples:

Alternates for a design plan = "8944-plan-a.dgn" and "8944-plan-b.dgn"

Staging for Maintenau MOT Stage 1 = MOT Stage 2 =	nce of Traffic "8944-mot1.dgn" "8944-mot2.dgn"
Master Model = Multiple Structures =	"8944-mod-mot3.dgn" and "8944-mod-drain.dgn" "8944-1968.dgn" and "8944-1971.dgn" "8944-sht-1968-001-gpe.dgn" and "8944-sht-1971-006- abut.dgn"
Multiple sheets =	"8944-sht-drain-011.dgn" and "8944-sht-drain-012.dgn "8944-sht-mot3-023.dgn" and "8944-sht-mot3-024.dgn

Appendix B – Sheet Revisions Example



Appendix C – Abbreviations

Appendix	C – Abbreviations	CSE	COURSE
ABV	ABOVE	m3	CUBIC METER
A/C	ACCESS CONTROL	mm3	CUBIC MILLIMETER
AC	ACRE	CU YD	CUBIC YARD
ADJ	ADJUST	CULV	CULVERT
AS	AERIAL SURVEYS	C&G	CURB & GUTTER
AGG	AGGREGATE		
AH	AHEAD	D	DEGREE OF CURVE
		DC	
APT	APARTMENT		DEPRESSED CURVE
ASPH	ASPHALT	DET	DETECTOR
AUX	AUXILIARY	DIA	DIAMETER
AGS	AUXILIARY GAS VALVE (SERVICE)	DIST	DISTRICT
AVE	AVENUE	DOM	DOMESTIC
AX	AXIS OF ROTATION	DBL	DOUBLE
АЛ	AND OF RUTATION		
		DSEL	DOWNSTREAM ELEVATION
BK	BACK	DSFL	DOWNSTREAM FLOWLINE
B-B	BACK TO BACK	DI	DRAINAGE INLET/DROP INLET
BKPL	BACKPLATE	DR	DRAINAGE OR DRIVE
B	BARN	DRV	DRIVEWAY
		DCT	DUCT
BARR	BARRICADE	DCT	DUCT
BGN	BEGIN		
BM	BENCHMARK	EA	EACH
BIND	BINDER	EB	EASTBOUND
BIT	BITUMINOUS	EOP	EDGE OF PAVEMENT
BTM	BOTTOM	E-CL	EDGE TO CENTERLINE
		E-E	EDGE TO EDGE
BLVD	BOULEVARD		
BRK	BRICK	EL	ELEVATION
BBOX	BUFFALO BOX	ENTR	ENTRANCE
BLDG	BUILDING	EXC	EXCAVATION
		EX	EXISTING
CIP	CAST IRON PIPE	EXPWAY	EXPRESSWAY
CB	CATCH BASIN		
		F-F	FACE TO FACE
C-C	CENTER TO CENTER		
CL	CENTERLINE OR CLEARANCE	FA	FEDERAL AID
CL-E	CENTERLINE TO EDGE	FP	FENCE POST
CL-F	CENTERLINE TO FACE	FE	FIELD ENTRANCE
CTS	CENTERS	FH	FIRE HYDRANT
CERT	CERTIFIED	FL	FLOW LINE
CHSLD	CHISELED	FB	FOOT BRIDGE
CS	CITY STREET	FDN	FOUNDATION
CP	CLAY PIPE	FR	FRAME
CLSD	CLOSED	F&G	FRAME & GRATE
CLID	CLOSED LID	FRWAY	FREEWAY
CT	COAT OR COURT		
COMB	COMBINATION	GAL	GALLON
		GALV	GALVANIZED
C	COMMERCIAL BUILDING	G	GARAGE
CE	COMMERCIAL ENTRANCE		
CONC	CONCRETE	GM	GAS METER
CONST	CONSTRUCT	GV	GAS VALVE
CONTD	CONTINUED	GRAN	GRANULAR
CONT	CONTINUOUS	GR	GRATE
		GRVL	GRAVEL
COR	CORNER	GND	GROUND
CORR	CORRUGATED	GUT	GUTTER
CMP	CORRUGATED METAL PIPE		
CNTY	COUNTY	GP	GUY POLE
CH	COUNTY HIGHWAY	GW	GUY WIRE
XSECT	CROSS SECTION	HH	HANDHOLE
-		HATCH	HATCHING
		•	

HD	HEAD	I	PVMT	PAVEMENT
HDW			PM	PAVEMENT MARKING
HDUTY			PED	PEDESTAL
ha	HECTARE		PNT	POINT
HWY	HIGHWAY		PC	POINT OF CURVATURE
				POINT OF INTERSECTION OF
HORIZ	HORIZONTAL		PI	
HMA	HOT MIX ASPHALT			HORIZONTAL CURVE
HSE	HOUSE		PRC	POINT OF REVERSE CURVE
			PT	POINT OF TANGENCY
IL	ILLINOIS		POT	POINT ON TANGENT
IMP	IMPROVEMENT		POLYETH	POLYETHYLENE
IN DIA	INCH DIAMETER		PCC	PORTLAND CEMENT CONCRETE
INL	INLET		PP	POWER POLE OR PRINCIPAL
INST	INSTALLATION			POINT
IDS	INTERSECTION DESIGN STUDY		PRM	PRIME
INV	INVERT		PE	PRIVATE ENTRANCE
IP	IRON PIPE		PROF	PROFILE
	-		-	-
IR	IRON ROD		PGL	PROFILE GRADELINE
			PROJ	PROJECT
JT	JOINT		P.C.	PROPERTY CORNER
			PL	PROPERTY LINE
1	KILOODAM			
kg	KILOGRAM		PR	PROPOSED
km	KILOMETER			
			R	RADIUS
10	LANDSCAPING		RR	RAILROAD
LS				
LN	LANE		RRS	RAILROAD SPIKE
LT	LEFT		RPS	REFERENCE POINT STAKE
LP	LIGHT POLE		REF	REFLECTIVE
LGT	LIGHTING		RCCP	REINFORCED CONCRETE
			RUUP	
LF	LINEAL FEET OR LINEAR FEET			CULVERT PIPE
L	LITER OR CURVE LENGTH		REINF	REINFORCEMENT
LC	LONG CHORD		REM	REMOVAL
LNG	LONGITUDINAL		RC	REMOVE CROWN
L SUM	LUMP SUM		REP	REPLACEMENT
			REST	RESTAURANT
MACH	MACHINE		RESURF	RESURFACING
	-			
MB	MAIL BOX		RET	RETAINING
MH	MANHOLE		RT	RIGHT
MATL	MATERIAL		ROW	RIGHT-OF-WAY
MED	MEDIAN		RD	ROAD
m	METER		RDWY	ROADWAY
METH	METHOD		RTE	ROUTE
Μ	MID-ORDINATE			
mm	MILLIMETER		SAN	SANITARY
mm DIA	MILLIMETER DIAMETER		SANS	SANITARY SEWER
MIX	MIXTURE		SEC	SECTION
MBH	MOBILE HOME		SEED	SEEDING
MOD	MODIFIED		SHAP	SHAPING
			S	SHED
NC	NORMAL CROWN		SH	SHEET
NB	NORTHBOUND		SHLD	SHOULDER
NE	NORTHEAST		SW	SIDEWALK OR SOUTHWEST
NW	NORTHWEST		SIG	SIGNAL
			SOD	SODDING
OLID	OPEN LID		SM	SOLID MEDIAN
			SB	SOUTHBOUND
-				
PAT	PATTERN		SE	SOUTHEAST
PVD	PAVED		SPL	SPECIAL
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SD	SPECIAL DITCH	TSCB	TRAFFIC SIGNAL CONTROL BOX
SQ FT	SQUARE FEET	TRN	TURN
m2	SQUARE METER	ΤY	TYPE
mm2	SQUARE MILLIMETER	T-A	TYPE A
SQ YD	SQUARE YARD	TYP	TYPICAL
STB	STABILIZED		
STD	STANDARD	USGS	U.S. GEOLOGICAL SURVEY
SR	STATE ROUTE	UNDGND	UNDERGROUND
STA	STATION	USEL	UPSTREAM ELEVATION
SS	STORM SEWER	USFL	UPSTREAM FLOWLINE
STY	STORY	UTIL	UTILITY
ST	STREET		
STR	STRUCTURE	VBOX	VALVE BOX
SURF		VV	VALVE VAULT
SMK	SURVEY MARKER	VLT	VAULT
		VEH	VEHICLE
TEL	TELEPHONE	VP	VENT PIPE
TB	TELEPHONE BOX	VERT	VERTICAL
TP	TELEPHONE POLE	VC	VERTICAL CURVE
TEMP	TEMPORARY	VPC	VERTICAL POINT OF CURVATURE
TBM	TEMPORARY BENCH MARK	VPI	VERTICAL POINT OF
TD			INTERSECTION
TBE	TO BE EXTENDED	VPT	VERTICAL POINT OF TANGENCY
TBR	TO BE REMOVED		
TBS	TO BE SAVED	WMAIN	
TWP		WM	
TR		WV	
	TRAVEL	WB	WESTBOUND
TRVS	TRANSVERSE	WILDFL	WILDFLOWERS
TS	TRAFFIC SIGNAL	W WO	WITH
TSC	TRAFFIC SYSTEMS CENTER	VVO	WITHOUT

Appendix D – Level Library

Level Library: By having the name of the point used for the templates link with the level name linked with the element template used linked with a clean determination of quantities is essential for design efficiency and productivity.

Example:

The point named "BCB" represents a cable barrier, which is part of the template called "BCB." Its feature (the item that is read by the template library) is called "3D-BCB", which will create a level called "3D-BCB-Cable Barrier." With the common element of "BCB" in all the elements, one can determine how everything links with each other.

There will be minor exceptions like gutter inverts, as per the following:

The template "B-6.06-L" creates a left positioned IDOT curb and gutter section B-6.06. Inside this template there is a point that represents the gutter invert, which is called "B606". For this template it uses the feature "3D-B606" and produces a level called "3D-KGI-Gutter Invert-B606"

There is a common element of "B606" between point, template, level, and feature. This obvious link exponentially increases productivity as it is intuitive what belongs where just from the clear, consistent, and compact name of the element. Additionally this point when visualized into a level becomes simple to identify for quantity and plan production.

This may not follow the perfect pattern as for the cable barrier, but there are obvious links between the point, level, and feature. This obvious link exponentially increases productivity as it is intuitive what belongs where just from the clear, consistent, and compact name of the element. Additionally, this point, when visualized into a level, becomes simple to identify for quantity and plan production.

Level	
Туре	Description
3D	Civil 3D design levels
2D	Civil 2D design levels
AL	Chain Alignment Levels
AP	Profile Alignment Levels
CA	Cable Conduit Levels (utility)
EC	Erosion Control Levels
EL	Electric Conduit Levels (utility)
FO	Fiber Optic Conduit Levels (utility)
GA	Gas Conduit Levels (utility)
GE	General Drafting Levels
LS	Landscaping Items Levels
PM	Pavement Marking Levels
RE	Removal Levels
RW	Right-of-Way Levels
SA	Sanitary Sewer Levels (utility)
SS	Storm Sewer and Drainage Levels
ST	Structural Design Levels
тс	Traffic Control Levels
TM	Terrain Modeling Levels
ТР	Telephone Conduit Levels (utility)

WA	Watermain Levels
XS	Component Levels
ZZ	Setting levels

Level	
Туре	Level Name
2D	2D-BCB-Cable Barrier
2D 2D-BFD-F-Type Double Barrier Wall	
2D 2D-BFS-F-Type Single Barrier Wall	
2D	2D-BL6-Guard Rail 6 Foot Posts Left Face
2D	2D-BL9-Guard Rail 9 Foot Posts Left Face
2D	2D-BR6-Guard Rail 6 Foot Posts Right Face
2D	2D-BR9-Guard Rail 9 Foot Posts Right Face
2D	2D-BSD-Single Slope Double Barrier Wall
2D	2D-BSS-Single Slope Single Barrier Wall
2D	2D-BWB-Barrier Wall Back
2D	2D-BWF-Barrier Wall Front
2D	2D-KBK-Back of Curb
2D	2D-KEP-Lip of Curb
2D	2D-KGI-Gutter Invert
2D	2D-KTK-Top of Curb
2D	2D-PAG-Aggregate Pavement
2D	2D-PAS-Asphalt Pavement
2D	2D-PCO-Concrete Pavement
2D	2D-SAW-Sawcut
2D	2D-VPA-Side Walk
2D	2D-WFB-Retaining Wall
Level	
Туре	Level Name
3D	3D-BCB-Cable Barrier
3D	3D-BFD-F-Type Double Barrier Wall
3D	3D-BFS-F-Type Single Barrier Wall
3D	3D-BL6-Guard Rail 6 Foot Posts Left Face
3D	3D-BL9-Guard Rail 9 Foot Posts Left Face
3D	3D-BR6-Guard Rail 6 Foot Posts Right Face
3D	3D-BR9-Guard Rail 9 Foot Posts Right Face
3D	3D-BSD-Single Slope Double Barrier Wall
3D	3D-BSS-Single Slope Single Barrier Wall
3D	3D-BWB-Barrier Wall Back
3D	3D-BWF-Barrier Wall Front
3D	3D-DSD-Sub Drain
3D	3D-ECP-Cut
3D	3D-EDI-Drain
3D	3D-EFP-Fill
3D	3D-EHP-Hinge Point

3D	3D-KBK-Back of Curb	
3D	3D-KEP-Lip of Curb	
3D	3D-KGI-Gutter Invert-B606	
3D	3D-KGI-Gutter Invert-B612	
3D	3D-KGI-Gutter Invert-B618	
3D	3D-KGI-Gutter Invert-B624	
3D	3D-KGI-Gutter Invert-B912	
3D	3D-KGI-Gutter Invert-B918	
3D	3D-KGI-Gutter Invert-B924	
3D	3D-KGI-Gutter Invert-G2 Gutter	
3D	3D-KGI-Gutter Invert-G2 Gutter Modified	
3D	3D-KGI-Gutter Invert-G3 Gutter	
3D	3D-KGI-Gutter Invert-G3 Gutter Modified	
3D	3D-KGI-Gutter Invert-M206	
3D	3D-KGI-Gutter Invert-M212	
3D	3D-KGI-Gutter Invert-M406	
3D	3D-KGI-Gutter Invert-M412	
3D	3D-KGI-Gutter Invert-M418	
3D	3D-KGI-Gutter Invert-M424	
3D	3D-KGI-Gutter Invert-M606	
3D	3D-KGI-Gutter Invert-M612	
3D	3D-KGI-Gutter Invert-M618	
3D	3D-KGI-Gutter Invert-M624	
3D	3D-KGI-Gutter Invert-Type C	
3D	3D-KTK-Top of Curb	
3D	3D-PAG-Aggregate Pavement	
3D	3D-PAS-Asphalt Pavement	
3D	3D-PCO-Concrete Pavement	
3D	3D-PHP-Pavement Hinge Point	
3D	3D-SAW-Sawcut	
3D	3D-SBR-Bridge	
3D	3D-SCO-Concrete	
3D	3D-VPA-Side Walk	
3D	3D-WBK-Retaining Wall Back	
3D	3D-WFB-Retaining Wall Bottom	
3D	3D-WTW-Retaining Wall Top	
3D	3D-ZZZ-Component Breaklines	
Level		
Туре	Level Name	
AL	AL-B00-Bridge Alignment	
AL	AL-BAN-Bridge Alignment Annotation	
AL	AL-C00-Road Alignment	
AL	AL-CAN-Road Alignment Annotation	
AL	AL-D00-Stormwater Alignment	
AL	AL-DAN-Stormwater Alignment Annotation	
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AL AL-CaO-Other Alignment AL AL-EAN-Other Alignment Annotation AL AL-KOO-Curb Alignment Annotation AL AL-CAN-Curb Alignment Annotation AL AL-UAN-Utility Alignment Annotation AL AL-UAN-Utility Alignment Annotation AL AL-VOO-Driveway Alignment Annotation AL AL-WAN-Wail Alignment Annotation AL AL-WAN-Wail Alignment Annotation AL AL-ZOO-Existing Alignment Annotation AL AL-ZOO-Existing Alignment Annotation Level AL AP AP-OO-Road Alignment Profile AP AP-BON-Bridge Alignment Profile Annotation AP AP-CON-Road Alignment Profile Annotation AP AP-CON-Road Alignment Profile Annotation AP AP-DON-Stormwater Alignment Profile Annotation AP AP-CON-Road Alignment Profile Annotation AP AP-CON-Curb Alignment Profile Annotation AP AP-CON-Curb Alignment Profile Annotation		
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APAP-ZST-Profile Station TextAPAP-ZXX-Proposed SurfaceLevel	AP	AP-ZAN-Existing Alignment Profile Annotation
APAP-ZXX-Proposed SurfaceLevelTypeLevel NameCACA-025-Cable 0-25in ConduitCACA-050-Cable 0-50in ConduitCACA-075-Cable 0-50in ConduitCACA-075-Cable 0-75in ConduitCACA-0AE-Cable Aerial LineCACA-100-Cable 1in ConduitCACA-125-Cable 1-25in ConduitCACA-125-Cable 1-50in Conduit	AP	AP-ZEL-Profile Elevation Text
LevelTypeLevel NameCACA-025-Cable 0-25in ConduitCACA-050-Cable 0-50in ConduitCACA-075-Cable 0-75in ConduitCACA-075-Cable 0-75in ConduitCACA-0AE-Cable Aerial LineCACA-100-Cable 1in ConduitCACA-125-Cable 1-25in ConduitCACA-125-Cable 1-25in Conduit	AP	AP-ZST-Profile Station Text
TypeLevel NameCACA-025-Cable 0-25in ConduitCACA-050-Cable 0-50in ConduitCACA-075-Cable 0-75in ConduitCACA-075-Cable 0-75in ConduitCACA-0AE-Cable Aerial LineCACA-100-Cable 1in ConduitCACA-125-Cable 1-25in ConduitCACA-150-Cable 1-50in Conduit	AP	AP-ZXX-Proposed Surface
CACA-025-Cable 0-25in ConduitCACA-050-Cable 0-50in ConduitCACA-075-Cable 0-75in ConduitCACA-0AE-Cable Aerial LineCACA-100-Cable 1in ConduitCACA-125-Cable 1-25in ConduitCACA-150-Cable 1-50in Conduit	Level	
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CACA-0AE-Cable Aerial LineCACA-100-Cable 1in ConduitCACA-125-Cable 1-25in ConduitCACA-150-Cable 1-50in Conduit		
CACA-100-Cable 1in ConduitCACA-125-Cable 1-25in ConduitCACA-150-Cable 1-50in Conduit		CA-075-Cable 0-75in Conduit
CA CA-125-Cable 1-25in Conduit CA CA-150-Cable 1-50in Conduit		CA-0AE-Cable Aerial Line
CA CA-150-Cable 1-50in Conduit		
	CA	CA-125-Cable 1-25in Conduit
CA CA-175-Cable 1-75in Conduit	CA	CA-150-Cable 1-50in Conduit
	CA	CA-175-Cable 1-75in Conduit

CA	CA-200-Cable 2in Conduit
CA	CA-225-Cable 2-25in Conduit
CA	CA-250-Cable 2-50in Conduit
CA	CA-275-Cable 2-75in Conduit
CA	CA-300-Cable 3in Conduit
CA	CA-350-Cable 3-50in Conduit
CA	CA-400-Cable 4in Conduit
Level	
Туре	Level Name
EC	EC-BAR-Perimeter Barrier
EC	EC-FNC-Fence
EC	EC-PRM-Permanent Items
EC	EC-TMP-Temporary Items
Level	
Туре	Level Name
EL	EL-025-Electric 0-25in Conduit
EL	EL-050-Eletric 0-50in Conduit
EL	EL-075-Eletric 0-75in Conduit
EL	EL-OAE-Electric Aerial Line
EL	EL-100-Electric 1in Conduit
EL	EL-125-Electric 1-25in Conduit
EL	EL-150-Eletric 1-50in Conduit
EL	EL-175-Electric 1-75in Conduit
EL	EL-200-Electric 2in Conduit
EL	EL-225-Electric 2-25in Conduit
EL	EL-250-Electric 2-50in Conduit
EL	EL-275-Eletric 2-75in Conduit
EL	EL-300-Eletric 3in Conduit
EL	EL-350-Eletric 3-50in Conduit
EL	EL-400-Eletric 4in Conduit
EL	EL-DLT-Double Mast Arm Light
EL	EL-MAN-Electric Manhole
EL	EL-MSC-Miscellaneous
EL	EL-POL-Electric Pole
EL	EL-POL-Utility Pole
EL	EL-SLT-Single Mast Arm Light
Level	
Туре	Level Name
FO	FO-0AE-Fiber Optic Aerial Line
FO	FO-100-Fiber Optic 1in Cable Conduit
FO	FO-100-Fiber Optic 1in Electric Conduit
FO	FO-100-Fiber Optic 1in Telephone Conduit
Level	
Type GA	Level Name GA-020-Gas 2in Conduit

GAGA-025-Gas 2-50in ConduitGAGA-025-Gas 3 in ConduitGAGA-030-Gas 3 in ConduitGAGA-050-Gas 6 in ConduitGAGA-050-Gas 5 in ConduitGAGA-060-Gas 6 in ConduitGAGA-100-Gas 10 in ConduitGAGA-102-Gas 10 in ConduitGAGA-102-Gas 12 in ConduitLevelTypeLevel NameGEGEGE-DIM-DimensionsGEGE-NOT-NotesGEGE-NOT-NotesGEGE-NOT-NotesGEGE-SHT-GeneralGEGE-SHT-GeneralGEGE-SHT-GeneralGEGE-SHT-Offle CellGEGE-SHT-Offle CellLevel NameInternetTypeLevel NameLevel NameInternetJLevel NameLevel NameInternetHPMPM-A4C-Asphalt 4 in Yellow Solid Doubl		
GA GA-040-Gas 4in Conduit GA GA-050-Gas 5in Conduit GA GA-050-Gas 5in Conduit GA GA-060-Gas 6in Conduit GA GA-100-Gas 10in Conduit GA GA-120-Gas 12in Conduit Level Type Level Type GE GE-DIM-Dimensions GE GE-NOT-Notes GE GE-NOT-Nites GE GE-PRC-Profile Cell GE GE-SHT-General GE GE-SHT-General GE GE-SHT-Natchilnes GE GE-XSA-Annotation GE GE-XSA-Cross Section Pattern Lines GE GE-XSA-Cross Section Cell Level Type Level Name Level Type Level Name PM PM-A4D-Asphalt 4in Yellow Solid Double Line RRPM PM <td>GA</td> <td>GA-025-Gas 2-50in Conduit</td>	GA	GA-025-Gas 2-50in Conduit
GA GA-050-Gas Sin Conduit GA GA-050-Gas Sin Conduit GA GA-080-Gas Sin Conduit GA GA-102-Gas 12in Conduit GA GA-120-Gas 12in Conduit Level Type Type Level Name GE GE-0IM-Dimensions GE GE-NOT-Notes GE GE-NOT-Notes GE GE-SHT-Clip Border GE GE-SHT-Clip Border GE GE-SHT-Plot Border GE GE-SHT-Natchlines GE GE-SHT-Natchlines GE GE-XSA-Cross Section Pattern Lines GE GE-XSA-Cross Section Stations GE GE-XSA-Cross Section Stations GE GE-XSA-Cross Section Cell Level Type Level Name LS LS LS-FEN-Fence LS LS-MSC-Landscaping Items Level Type PM PM-A4D-Asphalt 4in Yellow Solid Double Line PM PM-A4D-Asphalt 4in Yellow Solid Double Line PM PM-A4D-Asphalt 4in Yellow Solid Duuble Line PM	GA	GA-030-Gas 3in Conduit
GA GA-060-Gas 6in Conduit GA GA-080-Gas 8in Conduit GA GA-080-Gas 8in Conduit GA GA-120-Gas 12in Conduit Level Type Level Name GE GE GE-DIM-Dimensions GE GE-NOT-Notes GE GE-NOT-Tritles GE GE-SHT-Clip Border GE GE-SHT-Clip Border GE GE-SHT-Clip Border GE GE-SHT-OFenral GE GE-SHT-OFenral GE GE-SHT-Notes forder GE GE-SHT-Note Border GE GE-SHT-Note Border GE GE-SAC-Cross Section Pattern Lines GE GE-XSA-Cross Section Pattern Lines GE GE-XSA-Cross Section Cell Level Type Type Level Name LS LS-FEN-Fence LS LS-KSC-Cross Section Cell Level NM-A4C-Asphalt 4in Yellow Solid Double Line RPM PM PM-A4C-Asphalt 4in Yellow Solid Double Line PM PM-A4C-Asphalt 4in Yellow Solid Double Line PM	GA	GA-040-Gas 4in Conduit
GA GA-080-Gas 8in Conduit GA GA-100-Gas 10in Conduit GA GA-100-Gas 12in Conduit Level Type Type Level Name GE GE-DIM-Dimensions GE GE-NOT-Notes GE GE-NOT-Nitles GE GE-SHT-Clip Border GE GE-SHT-Clip Border GE GE-SHT-Plot Border GE GE-SHT-Plot Border GE GE-SHT-Natchlines GE GE-SHT-Notes Section Pattern Lines GE GE-XSA-Cross Section Pattern Lines GE GE-XSA-Cross Section Stations GE GE-XSA-Cross Section Stations GE GE-XSA-Cross Section Cell Level Level Name IS LS-FEN-Fence LS LS-FEN-Fence LS LS-FEN-Asphalt 4in Yellow Solid Double Line RRPM PM PM-A4Q-Asphalt 4in Yellow Solid Double Line PM PM-A4Q-Asphalt 4in Yellow Solid Line PM PM-A4Q-Asphalt 3in Yellow Solid Line PM PM-A4Q-Asphalt 3in Yellow Solid Line PM PM-A64-Asphalt	GA	GA-050-Gas 5in Conduit
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GA GA-120-Gas 12in Conduit Level Type Type Level Name GE GE-NDT-Notes GE GE-NOT-Notes GE GE-NOT-Titles GE GE-NOT-Titles GE GE-SHT-General GE GE-SHT-General GE GE-SHT-Border GE GE-SHT-Plot Border GE GE-SHT-Plot Border GE GE-SHT-Plot Border GE GE-SHT-Plot Border GE GE-SAS-Across Section Pattern Lines GE GE-XSA-Cross Section Stations GE GE-XSA-Cross Section Cell Level Name LS LS-FEN-Fence LS LS-FEN-Fence LS LS-MSC-Landscaping Items Level Name PM PM-A42-Asphalt 4in Yellow Solid Double Line PM PM-A42-Asphalt 4in Yellow Solid Double Line PM PM-A444-Asphalt 4in Yellow Solid Line PM PM-A54-Asphalt 4in Yellow Solid Line PM PM-A64-Asphalt 6in White Skipped Dash 40 Marker RRPM PM <td< td=""><td>GA</td><td>GA-080-Gas 8in Conduit</td></td<>	GA	GA-080-Gas 8in Conduit
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PMPM-A4W-Asphalt 4in White Solid LinePMPM-A4Y-Asphalt 4in Yellow Solid LinePMPM-A5W-Asphalt 5in White Solid LinePMPM-A5Y-Asphalt 5in Yellow Solid LinePMPM-A64-Asphalt 6in White Skipped Dash 40 Marker RRPMPMPM-A68-Asphalt 6in White Skipped Dash 80 Marker RRPMPMPM-A6H-Asphalt 6in Yellow Skipped Dash 80 Marker RRPMPMPM-A6H-Asphalt 6in Yellow Skipped Dash 80 Marker RRPMPMPM-A6H-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped DashPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Solid LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line	-	
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PMPM-A5Y-Asphalt 5in Yellow Solid LinePMPM-A64-Asphalt 6in White Skipped Dash 40 Marker RRPMPMPM-A68-Asphalt 6in White Skipped Dash 80 Marker RRPMPMPM-A6H-Asphalt 6in Yellow Skipped Dash 80 Marker RRPMPMPM-A6K-Asphalt 6in Yellow Skipped DashPMPM-A6K-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped DashPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		
PMPM-A64-Asphalt 6in White Skipped Dash 40 Marker RRPMPMPM-A68-Asphalt 6in White Skipped Dash 80 Marker RRPMPMPM-A6H-Asphalt 6in Yellow Skipped Dash 80 Marker RRPMPMPM-A6K-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped Dash 40 Marker RRPMPMPM-A6L-Asphalt 6in Yellow Skipped Dash 40 Marker RRPMPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		
PMPM-A68-Asphalt 6in White Skipped Dash 80 Marker RRPMPMPM-A6H-Asphalt 6in Yellow Skipped Dash 80 Marker RRPMPMPM-A6K-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped Dash 40 Marker RRPMPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		· · ·
PMPM-A6H-Asphalt 6in Yellow Skipped Dash 80 Marker RRPMPMPM-A6K-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped Dash 40 Marker RRPMPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		
PMPM-A6K-Asphalt 6in Yellow Skipped DashPMPM-A6L-Asphalt 6in Yellow Skipped Dash 40 Marker RRPMPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		
PMPM-A6L-Asphalt 6in Yellow Skipped Dash 40 Marker RRPMPMPM-A6S-Asphalt 6in White Skipped DashPMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		
PM PM-A6S-Asphalt 6in White Skipped Dash PM PM-A6T-Asphalt 6in White Dotted Line PM PM-A6W-Asphalt 6in White Solid Line PM PM-A6Y-Asphalt 6in Yellow Solid Line		
PMPM-A6T-Asphalt 6in White Dotted LinePMPM-A6W-Asphalt 6in White Solid LinePMPM-A6Y-Asphalt 6in Yellow Solid Line		
PM PM-A6W-Asphalt 6in White Solid Line PM PM-A6Y-Asphalt 6in Yellow Solid Line		
PM PM-A6Y-Asphalt 6in Yellow Solid Line		· · ·
PM PM-A8W-Asphalt 8in White Solid Line		PM-A6Y-Asphalt 6in Yellow Solid Line
	PM	PM-A8W-Asphalt 8in White Solid Line

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PM	PM-A8Y-Asphalt 8in Yellow Solid Line
PM	PM-AAT-Asphalt 10in White Dotted Line
PM	PM-AAY-Asphalt 10in Yellow Solid Line
PM	PM-ACW-Asphalt 12in White Solid Line
PM	PM-ACY-Asphalt 12in Yellow Solid Line
PM	PM-ALE-Asphalt Yellow 2 Way Left Turn lane Left Face
PM	PM-ARE-Asphalt Yellow 2 Way Left Turn lane Right Face
PM	PM-ARM-Asphalt Reflective Markers
PM	PM-ASB-Asphalt 24in White Stop Bar
PM	PM-AYM-Asphalt Symbols and Letters
PM	PM-C4C-Concrete 4in Yellow Solid Double Line RRPM
PM	PM-C4D-Concrete 4in Yellow Solid Double Line
PM	PM-C4W-Concrete 4in White Solid Line
PM	PM-C4Y-Concrete 4in Yellow Solid Line
PM	PM-C5W-Concrete 5in White Solid Line
PM	PM-C5Y-Concrete 5in Yellow Solid Line
PM	PM-C64-Concrete 6in White Skipped Dash 40 Marker RRPM
PM	PM-C68-Concrete 6in White Skipped Dash 80 Marker RRPM
PM	PM-C6H-Concrete 6in Yellow Skipped Dash 80 Marker RRPM
PM	PM-C6K-Concrete 6in Yellow Skipped Dash
PM	PM-C6L-Concrete 6in Yellow Skipped Dash 40 Marker RRPM
PM	PM-C6S-Concrete 6in White Skipped Dash
PM	PM-C6T-Concrete 6in White Dotted Line
PM	PM-C6W-Concrete 6in White Solid Line
PM	PM-C6Y-Concrete 6in Yellow Solid Line
PM	PM-C8W-Concrete 8in White Solid Line
PM	PM-C8Y-Concrete 8in Yellow Solid Line
PM	PM-CAT-Concrete 10in White Dotted Line
PM	PM-CAY-Concrete 10in Yellow Solid Line
PM	PM-CCW-Concrete 12in White Solid Line
PM	PM-CCY-Concrete 12in Yellow Solid Line
PM	PM-CLE-Concrete Yellow 2 Way Left Turn lane Left Face
PM	PM-CRE-Concrete Yellow 2 Way Left Turn lane Right Face
PM	PM-CRM-Concrete Reflective Markers
PM	PM-CSB-Concrete 24in White Stop Bar
PM	PM-CYM-Concrete Symbols and letters
PM	PM-M4C-MOT 4in Yellow Solid Double Line RRPM
PM	PM-M4D-MOT 4in Yellow Solid Double Line
PM	PM-M4W-MOT 4in White Solid Line
PM	PM-M4Y-MOT 4in Yellow Solid Line
PM	PM-M5W-MOT 5in White Solid Line
PM	PM-M5Y-MOT 5in Yellow Solid Line
PM	PM-M64-MOT 6in White Skipped Dash 40 Marker RRPM
PM	PM-M68-MOT 6in White Skipped Dash 80 Marker RRPM

PM	PM-M6H-MOT 6in Yellow Skipped Dash 80 Marker RRPM
PM	PM-M6K-MOT 6in Yellow Skipped Dash
PM	PM-M6L-MOT 6in Yellow Skipped Dash 40 Marker RRPM
PM	PM-M6S-MOT 6in White Skipped Dash
PM	PM-M6T-MOT 6in White Dotted Line
PM	PM-M6W-MOT 6in White Solid Line
PM	PM-M6Y-MOT 6in Yellow Solid Line
PM	PM-M8W-MOT 8in White Solid Line
PM	PM-M8Y-MOT 8in Yellow Solid Line
PM	PM-MAT-MOT 10in White Dotted Line
PM	PM-MAY-MOT 10in Yellow Solid Line
PM	PM-MCW-MOT 12in White Solid Line
PM	PM-MCY-MOT 12in Yellow Solid Line
PM	PM-MLE-MOT Yellow 2 Way Left Turn lane Left Face
PM	PM-MRE-MOT Yellow 2 Way Left Turn lane Right Face
PM	PM-MRM-MOT Reflective Markers
PM	PM-MSB-MOT 24in White Stop Bar
PM	PM-MYM-MOT Symbols and letters
Level	
Туре	Level Name
RE	RE-ARE-Area Removal
RE	RE-EAC-Item Removal
RE	RE-LIN-Linear Item Removal
Level	
Туре	Level Name
RW	RW-ACC-Access Control
RW	RW-EAS-Existing Easement
RW	RW-EAS-Permanent Easement
RW	RW-EAS-Temporary Easement
RW	RW-LOC-Limits of Construction
RW	RW-P-L-Property Lines
RW	RW-ROW-Existing ROW
RW	RW-ROW-Proposed ROW
RW	RW-ROW-ROW Markers
Level	Level Name
Type SA	SA-004-Sanitary 4in Pipe
SA	SA-004-Sanitary 6in Pipe
SA	SA-008-Sanitary 8in Pipe
SA	SA-010-Sanitary 10in Pipe
SA	SA-012-Sanitary 12in Pipe
SA	SA-012-Sanitary 1211 Pipe
SA	SA-015-Sanitary 15in Pipe
SA	SA-018-Sanitary 18in Pipe SA-021-Sanitary 21in Pipe
SA	
SA	SA-024-Sanitary 24in Pipe

SA	SA-027-Sanitary 27in Pipe	
SA	SA-030-Sanitary 30in Pipe	
SA	SA-033-Sanitary 33in Pipe	
SA	SA-036-Sanitary 36in Pipe	
SA	SA-042-Sanitary 42in Pipe	
SA	SA-0FM-Sanitary Force Main	
SA	SA-0SP-Sanitary Pipe Special	
SA	SA-CON-Connection	
SA	SA-FIT-Fitting	
SA	SA-MAN-Manhole	
SA	SA-PIP-Pipe	
SA	SA-STA-Lift Station	
SA	SA-TEE-Tee	
SA	SA-VNV-Valve and Vault	
Level		
Туре	Level Name	
SS	SS-010-Storm 10in Pipe	
SS	SS-012-Storm 12in Pipe	
SS	SS-014-Storm 14in Pipe	
SS	SS-015-Storm 15in Pipe	
SS	SS-016-Storm 16in Pipe	
SS	SS-018-Storm 18in Pipe	
SS	SS-020-Storm 20in Pipe	
SS	SS-021-Storm 21in Pipe	
SS	SS-024-Storm 24in Pipe	
SS	SS-027-Storm 27in Pipe	
SS	SS-030-Storm 30in Pipe	
SS	SS-033-Storm 33in Pipe	
SS	SS-036-Storm 36in Pipe	
SS	SS-042-Storm 42in Pipe	
SS	SS-048-Storm 48in Pipe	
SS	SS-054-Storm 54in Pipe	
SS	SS-060-Storm 60in Pipe	
SS	SS-066-Storm 66in Pipe	
SS	SS-072-Storm 72in Pipe	
SS	SS-078-Storm 78in Pipe	
SS	SS-084-Storm 84in Pipe	
SS	SS-090-Storm 90in Pipe	
SS	SS-096-Storm 96in Pipe	
SS	SS-102-Storm 102in Pipe	
SS	SS-108-Storm 108in Pipe	
SS	SS-BAS-Catch Basin	
SS	SS-BES-Box Culvert End Section	
SS	SS-BOX-Box Culvert	
SS	SS-CLR-Pipe Culvert	
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SS	SS-ELB-Elbow
SS	SS-END-End Section
SS	SS-FNG-Frame and Grate
SS	SS-HDW-Headwall
SS	SS-INL-Inlet
SS	SS-MAN-Manhole
SS	SS-MSC-Miscellaneous
SS	SS-PIP-Pipe
SS	SS-TEE-Tee
SS	SS-TMP-Temporary Pipe
Level	
Туре	Level Name
ST	ST-ABT-Abutment
ST	ST-BEM-Beam
ST	ST-BOX-Box Culvert
ST	ST-BRB-Bridge Bottom
ST	ST-BRG-Bearing
ST	ST-BRH-Bridge Reinforcement Hidden
ST	ST-BRI-Bridge
ST	ST-BRP-Bridge Pier
ST	ST-BRR-Bridge Reinforcement
ST	ST-CAP-Cap
ST	ST-CEL-Sign Cell
ST	ST-CEL-Structure Cell
ST	ST-CLM-Column
ST	ST-COH-Concrete Hidden
ST	ST-CON-Concrete
ST	ST-DEK-Deck
ST	ST-DPH-Diaphram
ST	ST-FOT-Footing
ST	ST-MSC-Miscellaneous
ST	ST-PIL-Pile
ST	ST-PIR-Pier
ST	ST-RAL-Railing
ST	ST-REB-Rebar
ST	ST-RET-Retaining Wall
ST	ST-SGN-Sign
ST	ST-SHF-Drilled Shaft
ST	ST-SLP-Slope
ST	ST-SRT-Strut
ST	ST-STH-Steel Hidden
ST	ST-STL-Steel
ST	ST-TSL-TSandL
ST	ST-WAL-Wall
ST	ST-XFM-Cross Frame
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Level	
Туре	Level Name
тс	TC-MOT-Barriers
тс	TC-MOT-Signs
тс	TC-SIG-Signals
тс	TC-SIG-Signs
Level	
Туре	Level Name
TM	TM-EBB-Existing Subgrade Surface Boundary
TM	TM-EBP-Existing Subgrade Surface Primary Contour
TM	TM-EBS-Existing Subgrade Surface Secondary Contour
TM	TM-EBT-Existing Subgrade Surface Triangles
TM	TM-ETB-Existing Surface Boundary
TM	TM-ETP-Existing Surface Primary Contour
TM	TM-ETS-Existing Surface Secondary Contour
TM	TM-ETT-Existing Surface Triangles
TM	TM-PBB-Proposed Subgrade Surface Boundary
TM	TM-PBP-Proposed Subgrade Surface Primary Contour
TM	TM-PBS-Proposed Subgrade Surface Secondary Contour
TM	TM-PBT-Proposed Subgrade Surface Triangles
TM	TM-PTB-Proposed Surface Boundary
TM	TM-PTP-Proposed Surface Primary Contour
TM	TM-PTS-Proposed Surface Secondary Contour
TM	TM-PTT-Proposed Surface Triangles
TM	TM-QCU-Earthwork Cut
ΤM	TM-QFL-Earthwork Fill
Level	
Туре	Level Name
TP	TP-025-Telephone 0-25in Conduit
TP	TP-050-Telephone 0-50in Conduit
ТР	TP-075-Telephone 0-75in Conduit
ТР	TP-0AE-Telephone Aerial Line
ТР	TP-100-Telephone 1in Conduit
TP	TP-125-Telephone 1-25in Conduit
TP	TP-150-Telephone 1-50in Conduit
TP	TP-175-Telephone 1-75in Conduit
TP	TP-200-Telephone 2in Conduit
TP	TP-225-Telephone 2-25in Conduit
ТР	TP-250-Telephone 2-50in Conduit
ТР	TP-275-Telephone 2-75in Conduit
ТР	TP-300-Telephone 3in Conduit
ТР	TP-350-Telephone 3-50in Conduit
TP	TP-400-Telephone 4in Conduit

Level	
Туре	Level Name
WA	WA-006-Watermain 6in Pipe
WA	WA-008-Watermain 8in Pipe
WA	WA-010-Watermain 10in Pipe
WA	WA-012-Watermain 12in Pipe
WA	WA-014-Watermain 14in Pipe
WA	WA-015-Watermain 15in Pipe
WA	WA-016-Watermain 16in Pipe
WA	WA-018-Watermain 18in Pipe
WA	WA-020-Watermain 20in Pipe
WA	WA-021-Watermain 21in Pipe
WA	WA-024-Watermain 24in Pipe
WA	WA-027-Watermain 27in Pipe
WA	WA-030-Watermain 30in Pipe
WA	WA-033-Watermain 33in Pipe
WA	WA-036-Watermain 36in Pipe
WA	WA-042-Watermain 42in Pipe
WA	WA-048-Watermain 48in Pipe
WA	WA-054-Watermain 54in Pipe
WA	WA-060-Watermain 60in Pipe
WA	WA-066-Watermain 66in Pipe
WA	WA-072-Watermain 72in Pipe
WA	WA-078-Watermain 78in Pipe
WA	WA-084-Watermain 84in Pipe
WA	WA-090-Watermain 90in Pipe
WA	WA-BTF-Butterfly Valve
WA	WA-CAP-Cap
WA	WA-CON-Connection
WA	WA-FIT-Fitting
WA	WA-HYD-Fire Hydrant
WA	WA-MAN-Manhole
WA	WA-MCH-Mechanical Joint
WA	WA-PIP-Pipe
WA	WA-PLG-Plug
WA	WA-RED-Reducer
WA	WA-TAP-Tap
WA	WA-TEE-Tee
WA	WA-VAL-Valve
WA	WA-VNV-Valve and Vault
Level	
Туре	Level Name
XS	XS-BCB-Cable Barrier
XS	XS-BFD-F-Type Double Barrier Wall
XS	XS-BFS-F-Type Single Barrier Wall

XS	XS-BGF-Guard Rail Fence
XS	XS-BSD-Single Slope Double Barrier Wall
XS	XS-BSS-Single Slope Single Barrier Wall
XS	XS-DSD-Sub Drain
XS	XS-EAR-Earthworks
XS	XS-ETP-Topsoil
XS	XS-KER-Curbs
XS	XS-PBA-Base Course Asphalt
XS	XS-PBC-Base Course Concrete
XS	XS-PBE-Base Course PGE
XS	XS-PBG-Base Course Aggregate
XS	XS-PBH-Base Course Hot Mix Asphalt
XS	XS-PBP-Base Course PCCP
XS	XS-PBW-Base Course Warm Mix Asphalt
XS	XS-PPA-Pavement Asphalt
XS	XS-PPC-Pavement Concrete
XS	XS-PPE-Pavement PGE
XS	XS-PPG-Pavement Aggregate
XS	XS-PPH-Pavement Hot Mix Asphalt
XS	XS-PPP-Pavement PCCP
XS	XS-PPW-Pavement Warm Mix Asphalt
XS	XS-PSA-Sub Base Asphalt
XS	XS-PSC-Sub Base Concrete
XS	XS-PSE-Sub Base PGE
XS	XS-PSG-Sub Base Aggregate
XS	XS-PSH-Sub Base Hot Mix Asphalt
XS	XS-PSP-Sub Base PCCP
XS	XS-PSW-Subgrade Warm Mix Asphalt
XS	XS-SBR-Bridge
XS	XS-SCO-Concrete
XS	XS-VPA-Side Walk
XS	XS-WAL-Retaining Wall
XS	XS-ZBT-Bottom of Subgrade
XS	XS-ZTP-Top Surface
XS	XS-ZZZ-Construction
Level	
Туре	Level Name
ZZ	ZZ-COR-Corridor
ZZ	ZZ-SUP-Superelevation