Electronic Engineering Data Standards

Deliverables, Forms and Symbology

2017

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Washington State
Department of Transportation

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The *Electronic Engineering Data Standards Manual* defines standards and procedures for preparing, delivering, and archiving electronic engineering data created for the Washington State Department of Transportation (WSDOT) during location survey, design, PS&E and construction phases of highway projects. These standards shall be used in the preparation and delivery of all electronic deliverables defined within, and they apply to projects delivered by WSDOT staff and consulting firms, unless otherwise approved by a WSDOT Project Development Engineer.

The purpose of these standards and procedures is to promote uniformity and consistency across WSDOT so that project data can be effectively managed during the project development phase and to ensure its value for those in future phases such as construction, who need to make use of electronic data that was originally created by someone else.

The instructions in this manual are not intended to preclude judgment of the project manager in the event of special or unique circumstances that would make following these standards less efficient for delivery of a specific project.

This manual contains three sections: Deliverables, Forms and Symbology.

This manual will be updated on a continuing basis, with revisions issued periodically. The current version is available electronically on the WSDOT Engineering Publications and the WSDOT CAE web sites. Suggestions for improvements are welcome.

Please send any comments or suggestions to Clint Hill, HQ CAE Support Manager (Clint.Hill@wsdot.wa.gov).

Jeff Carpenter, P.E.
State Design Engineer

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Deliverables

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D1.01 General
D1.02 Applications
D1.03 WSDOT Resources

D1.01 General

WSDOT has developed software resources to increase efficiency for drafting, design, construction and survey disciplines using Computer Aided Engineering (CAE) applications to design and deliver projects. These resources provide standard symbology, conventions, project development, and productivity tools that support the WSDOT Plans Preparation Manual and this manual. The resources are available to both internal and external clients.

D1.02 Applications

The WSDOT standard Computer Aided Drafting (CAD) platform is Bentley Systems MicroStation. The standard WSDOT survey and design analysis platform is Bentley Systems InRoads and appropriate specialized modules. WSDOT uses Bentley Systems ProjectWise for document management.

For internal WSDOT computers, the standard applications are Bentley Systems V8i (version 8.11.xx) platform, specifically MicroStation SS3 and Power InRoads SS2.

The WSDOT ProjectWise datasources are V8i SS4 (version 8.11.xx); fully compatible ProjectWise Explorer versions are acceptable.

D1.03 WSDOT Resources

The WSDOT CAE environment is provided via an electronic resource file set contained in a single root folder structure and organized into subdirectories for cell libraries, DGN libraries, InRoads resources, plotting resources, etc. The entire WSDOT CAE environment is available for both internal and external users.

D1.03(1) Internal WSDOT Clients

The WSDOT resources are included in the CAE application installation process for all WSDOT computers connected to the WSDOT wide area network. Updates are deployed statewide and a mechanism to manually check resources against the central server is available on each installed computer. For internal users, the WSDOT CAE resource files are located in the C:\Users\Public\CAE\Standards\WSDOT folder.

D1.03(2) External Clients

The entire WSDOT resource file set is available for download from WSDOT's CAE Consultant Resources web site by following the *WSDOT CAE Environment Resource Files* link at:

http://www.wsdot.wa.gov/design/cae

These resources are updated in conjunction with the internal deployment schedule. The resource history link provides information about the specific updates for each resource set. External WSDOT CAE resource update notifications can be set up via the CAE web site.

Contact your local IT department for download and installation support.

Deliverables 2 Data Transfer, Review, and Acceptance

D2.01 General
D2.02 Preparation and Transmittal of Electronic Data
D2.03 Acceptance of Electronic Data Submittals
D2.04 Rejection of Electronic Data Submittals

D2.01 General

This chapter defines the requirements for the transfer, review, and acceptance of WSDOT electronic data deliverables. The requirements include what information is transferred, who is expected to provide the information (the supplier), who will receive the information (the customer), and who will approve the information.

Department suppliers refer to persons directly employed by WSDOT. Consultant suppliers refer to consultant firms hired to provide engineering services for WSDOT.

Following are several examples of electronic data transfers:

- A WSDOT survey group or consulting firm (the supplier) provides an InRoads survey dataset to a design group or consulting firm (the customer) for use in the design of a project.
- A design office or consulting firm (the supplier) provides an InRoads design dataset to a construction office (the customer) for use during construction of a project.
- A consulting firm (the supplier) provides an InRoads dataset and MicroStation PS&E dataset for Stages 1 & 2 of a project to the WSDOT Headquarters (HQ) Design Office for use during Stage 3 of a project.

While this list is not all-encompassing, it provides examples of some of the electronic data transfers throughout the project development process.

D2.02 Preparation and Transmittal of Electronic Data

All submissions of electronic data (preliminary, milestone or final) shall adhere to the following requirements:

The supplier shall provide the customer with the information in electronic format as described in the appropriate section of this document.

Electronic scanned sheets submitted will be scanned at 600dpi minimum and resulting image or PDF will be checked for clarity and readability before transmittal.

D2.02(1) ProjectWise Managed Projects

For information managed through ProjectWise, see D8.03.

D2.02(2) Non-ProjectWise Managed Projects

Consultant suppliers shall submit files through the WSDOT office administering their contract. The WSDOT office receiving the data may ask WSDOT CAE Support to assist in reviewing any electronic data set for compliance.

WSDOT suppliers shall submit files to department customers by making the electronic data available on a WSDOT network resource that is common to both parties and notifying the customer of that location.

All electronic files shall be checked for computer viruses by the supplier immediately prior to submission. The supplier shall include a dated log file and a written verification of this virus check. Due to the WSDOT Wide Area Network's virus scanning tools, the requirement is automatically met for data produced within the WSDOT WAN. Internal users will simply note that all work was done within the WSDOT WAN to satisfy this requirement. Data produced outside the WAN needs further documentation and verification. The verification will include the name and version of the virus check software used and the date the virus check was performed. Submissions found to contain viruses will not be accepted.

For every deliverable, a transmittal letter to the customer shall be prepared in Microsoft Word format. This letter shall include the following:

- Project information including name, project numbers, and description.
- A submission number and date (e.g., Submission #1, 12/22/2015). Revisions shall be submitted under the original submission number and include a revision number and revision date (e.g., Submission #1, Revision #1, 1/7/2016).
- The checklist appropriate for the product(s) being delivered as defined in this document.
- A contents listing and location of the electronic data being transferred.

All electronic data submissions shall be compatible with the current versions of CAE software in use by WSDOT as defined in the CAE website (http://www.wsdot.wa.gov/design/cae) under Deliverable File Formats.

In general, all submissions shall be in accordance with the standards detailed in the current version of this document. However, with approval from WSDOT, consultant suppliers may submit electronic files that conform to previous versions of this document. Written approval must be obtained from WSDOT in regards to the WSDOT electronic data standards that the consultant supplier is using for the submission. Requests for approval to use previous versions of WSDOT standards shall be directed to and approved by the Project Manager/Consultant Liaison as applicable.

The supplier shall ensure that the contents of all electronic files are the same as any "hard copy" information submitted (e.g., survey notes, paper plots, scanned images, or PDF files).

The supplier shall name the files as stated in the appropriate section of this manual.

D2.02(3) Design-Build RFP Bidding Process

Whether managed in ProjectWise or not, the following describes the requirements for providing Design-Build CAD drawings to bidders via the Request for Proposal (RFP) bidding process:

Preliminary design CAD plan sheets and supporting files prepared by WSDOT or WSDOT consultants for design-build projects are conceptual in nature and are for information only. These CAD files may be made available to potential bidders through the RFP process only if all of the following steps are taken:

1. All information in the title block is removed from the plan sheet including company logos;
2. A disclaimer reading "FOR INFORMATION ONLY" is printed diagonally across each plan sheet; and

All CAD files are subject to RFP Chapter 1 requirements under "Disclaimer Regarding Documentation".

All CAD files are subject to RFP Chapter 1 requirements under "Disclaimer Regarding Documentation".

Preliminary design plan sheets for current projects under design or under contract may be provided in PDF format including the disclaimer noted in Step 2 above. Historical or as-built plan sheets may only be shared in PDF format, as described above.

D2.03 Acceptance of Electronic Data Submittals

D2.03(1) Acceptance of Electronic Data Submittals

The supplier is responsible for adherence to all standards and should use the same methods and guidelines as the customer to evaluate conformance prior to submittal.

The customer shall use the following guidelines in the evaluation of all electronic files:

The customer may review and comment on the information submitted by the supplier to ensure conformance with WSDOT CAE standards.

The customer will run a virus check on every submittal prior to any other review. If a virus is encountered, the submission will be returned immediately and the supplier will be notified about what virus was found and what software package was used to discover it.

D2.03(2) Drafting Files

The customer shall use the following guidelines in the evaluation of graphics files:

Graphic files may be reviewed on a level-by-level basis to ensure adherence to WSDOT standards as described in this document and the Plans Preparation Manual. Bentley tools and/or third party standards compliance tools may be utilized to accomplish this review.

Graphic elements may be analyzed using commands within MicroStation for conformance with the prescribed level, size, weight, style and other designated attributes.

The customer may check submitted files for inconsistencies by reviewing tie points, stationing and dimensioning to ensure accuracy and consistency with the design data generated by other applications used on the project.

D2.03 (3) Survey Files

The customer shall use the following guidelines in the evaluation of survey files:

The customer may review the data files for compliance with current WSDOT standard feature code usage.

The customer may verify that the coordinate ranges are consistent with the project coordinate system including Northing, Easting, and Elevation values.

The customer may verify that the application of the combined factor used is correct.

D2.03(4) Surface Models

The customer shall use the following guidelines in the evaluation of Digital Terrain Models (DTMs):

The customer may display features to look for inconsistencies between features in the DTM surface and elements shown in corresponding MicroStation base mapping files.

The customer may generate contours and look for inconsistencies or anomalies.

DTMs may be viewed from several view rotations (including isometric, front, and side views) to identify elements at incorrect elevations. Elements at incorrect elevations are not acceptable.

The customer may generate profiles along the approximate centerline of all major roads and streams. The customer will review the profiles for unusual slopes and/or breaks.

The customer may generate cross sections from the approximate centerline of all major roads and streams. Cross sections will typically be done at 10-foot intervals in most areas, and 1-foot intervals in the vicinity of bridges and culverts. The limit of each section will be the approximate limit of survey. These sections will be reviewed for unusual slopes and/or breaks.

The customer may display the triangles in a file to ensure that erroneous triangles have not been included.

The customer may verify surface elevations using methods consistent with the accuracy attainable by the original method of collection.

D2.03(5) Alignment Files

The customer shall use the following guidelines in the evaluation of any alignments provided:

The customer may display the alignments and coordinate geometry points in the design application to verify that they appear in the correct location in relation to the topography.

The customer may generate InRoads report files based on the alignments and coordinate geometry points and compare them against the survey notes or plans submitted by the supplier for accuracy.

D2.03(6) ASCII Files

The customer may review ASCII files to ensure they are in a format consistent with the file content.

D2.04 Rejection of Electronic Data Submittals

Any data or files submitted that do not meet the requirements outlined in this document shall be returned to the supplier for correction. With the return of any data or files, the customer will provide a written explanation of all areas that do not conform to this document. The supplier shall be responsible for finding the source of the errors, correcting the errors, and resubmitting the files.

Any contacts between a consultant supplier and WSDOT will be done through the Project Manager or Consultant Liaison as applicable.

D3.01 General
D3.02 Project Name
D3.03 Required WSDOT CAE Standard Project Folders
D3.04 _DatumAndControl
D3.05 CAD
D3.06 Engineering Data Construction
D3.07 Engineering Data Design
D3.08 Survey
D3.09 Project Documentation
D3.10 Additional Project Folders

D3.01 General

The project directory structure discussed in this section is intended as the WSDOT standard structure for Computer Aided Engineering (CAE) data storage to consolidate all of a project's electronic engineering data files into one folder structure on a local or network resource.

For projects using ProjectWise, see section **Deliverables 8** of this manual.

If another WSDOT Enterprise Content Management (ECM) system is used such as SharePoint, the CAE structure will complement that system, as the ECM is the primary location for project documentation and the CAE structure stores the drafting, engineering, and survey data files. In the absence of an ECM, this structure provides guidance for storage of typical, relevant information pertaining to the project.

Survey, design, drafting, construction, and other supporting data files will be located in this structure on a common computer resource for access by all project team members. This consolidated directory structure will simplify archiving project data in a consistent manner and facilitate future retrieval.

Typically, the project lead designer will create the standard project folder structure when creating a new project, and place it on the common network location for access by all stakeholders. WSDOT provides the Create WSDOT Project utility that automates the standard folder structure creation, sets up many project level resources, allows for the input of metadata for the project and creates files that allow the WSDOT applications to work more efficiently. This utility is available in the WSDOT CAE resource file set for all customers. WSDOT projects should always be created using this project utility. Sufficient care should be taken with the metadata and other information supplied at the time of project creation.

Although a working copy of this structure may reside on a local computer hard drive (e.g., field survey crew laptops), the master files should always be stored in the standard directory structure on a network resource and the final deliverables must be delivered in the standard project directory structure.

Exhibit 3-1 is an expanded view of the standard CAE project structure.

D3.02 Project Name

Each project is stored in a uniquely named folder. Project names are often derived from the project's work order number, Work Item Number (WIN) number or other project identifier. It is important ***not*** to revise the name of the project root folder after creating the project as metadata and project resource settings become ineffective.

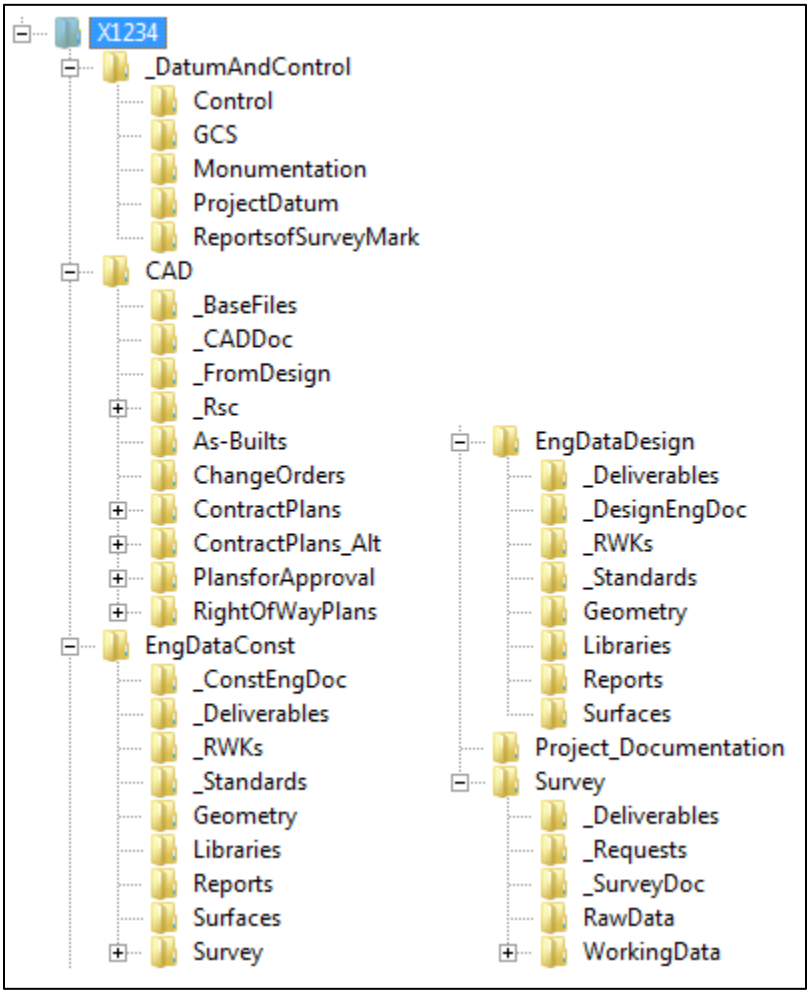
D3.03 Required WSDOT CAE Standard Project Folders

For ProjectWise project structures, see Section D8.04 of this manual.

In the non-ProjectWise project folder structure, there are five specific folders for WSDOT standard CAE applications. These folders are **_DatumAndControl**, **CAD**, **EngDataConst**, **EngDataDesign**, and **Survey**. These five primary folders must remain intact, although additional subfolders may be added to them. It is recommended that no more than two additional levels be added to any folder beneath **_DatumAndControl**, **CAD**, **EngDataConst**, **EngDataDesign**, or **Survey**.

The total number of nested folders or path characters anywhere in the project structure *must not exceed* limitations of backup and data transfer media used, such as CD-R. Check the path limitation constraints for each type of media.

Exhibit 3-1 Standard CAE Folder Structure



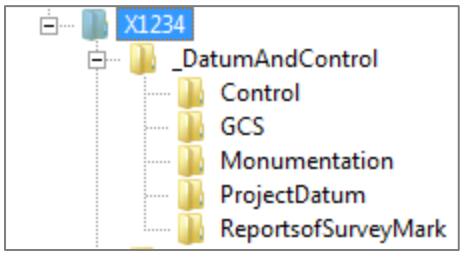
In addition to the five required project folders, each project structure may include additional folders that aid in organizing related project files in a consistent and logical manner.

The following sections include a more detailed description of requirements for the required WSDOT standard project folders **_DatumAndControl**, **CAD**, **EngDataConst**, **EngDataDesign**, and **Survey**.

D3.04 _DatumAndControl

The **_DatumAndControl** directory is the primary location for project coordinate system documentation.

Exhibit 3-2 Standard _DatumAndControl Folder Structure



Control

This folder's purpose is to document the survey control points used in the project's scoping, location, design and construction. Data organization could be in WSDOT ASCII Survey format, ALG or LandXML. Other report formats could be used to supplement data and provide additional information.

GCS

This folder's purpose is to document the PD GCS (Project Datum Geographic Coordinate System). If the project is using Project Datum, this folder would contain a DGN with a PD GCS defined in it, which is used to import GCS into other DGN files, making the file geographically aware. A **PD_GCS.PRJ** file, which is used to import DGNs into ArcMap, where the PRJ file tells ArcMap what projection and coordinates the data is in.

Monumentation

This is the location for all supporting documents for Record of Survey, Record of Monumentation, DNR permits and completion reports for monumentation removal or destruction and other related documentation.

Project Datum

This folder's purpose is to document the PD CF (combined factor) calculations. This folder would contain the PD Calculation Report, which could be a scanned manually calculated worksheet, spreadsheet or Project Datum XML report.

ReportsofSurveyMark

This folder's purpose is to document the primary control used for the project. This folder would contain a Report of Survey Mark PDF file for each primary control point used in the project. Each file would have the highlighted values used for the project.

See **Deliverables 5** for more details about each folder type.

D3.05 CAD

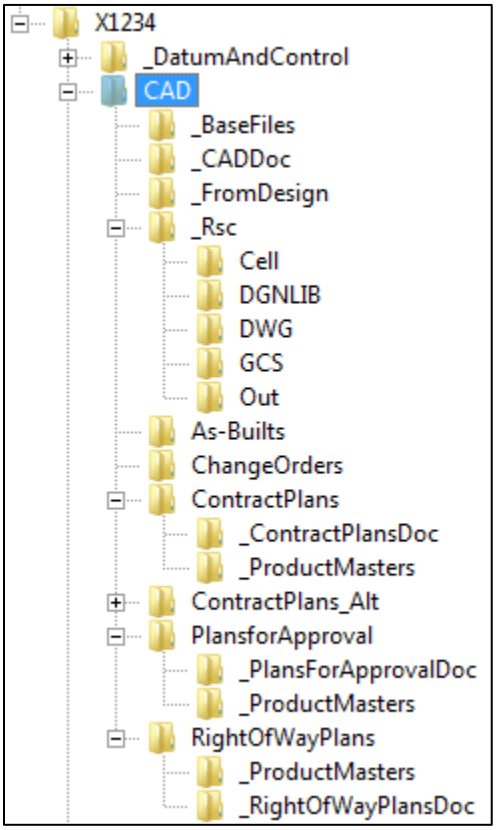
The CAD directory is the primary location for drafting files. Folders beginning with an under bar character contain files used in the creation of more than a single CAD product or resource files that facilitate the creation of a product, but are not themselves part of that final product.

See **Deliverables 7** for more details about each folder type.

Folders without the initial under bar character contain files and data used only in the product specified by the folder name.

This directory consists of the following required subfolders.

Exhibit 3-3 Standard CAD Folder Structure



_BaseFiles

This folder is used for all project files referenced by other files. These are generally coordinate based MicroStation files, but may include other files such as large profiles received from design referenced to multiple sheets or raster image DGNs that are referenced to multiple sheets and displays in the project.

_CADDoc

This folder is used for all drafting-related documentation including file indexes, journals, filters and user level usage.

_FromDesign

This folder is used for files from InRoads designers for access by drafters. This folder should only be used as a posting point for transmitting or receiving files from design to drafting.

_Rsc

This is the location for project-specific cell libraries, DGN Libraries, AutoCAD resources (provided by external partners). Also an Out folder specified in the WSDOT configuration as the output location for files by certain drafting operations such as exports and translations.

As-Builts

This is the location for "As Constructed" or "asbuilts" DGN files.

ChangeOrders

Construction change order DGN files are stored in this folder.

ContractPlans[_*Milestone*]

This directory contains sheet and Container files during the Design phase and a complete stand-alone product representing a specific deliverable.

_ContractPlansDoc

Documentation specific to the deliverable contained in ContractPlans[_Milestone]. Typically a snapshot of the appropriate _CADDoc files.

_ProductMasters

At the time of deliverable completion, a copy of all required base and other files necessary to support the ContractPlans deliverable package will be stored here.

PlansForApproval[_*Milestone*]

This directory contains DGN files related specifically to Plans for Approval. Once approved, referenced master base plan files will be included and the folder name appended to indicate "_Approved".

_PlansForApprovalDoc

Documentation specific to the deliverable contained in PlansForApproval[_Milestone]. Typically a snapshot of the appropriate _CADDoc files.

_ProductMasters

At the time of deliverable completion, a copy of all required base and other files necessary to support the **PlansForApproval** deliverable package will be stored here.

RightOfWayPlans[_Milestone]

For ProjectWise Right of Way folder structures, see Deliverables 8 of this manual.

This directory contains DGN sheet files for Right of Way developed by the Design office. Plans developed and prepared for transmittal by the Right of Way Office are stored in ProjectWise. Once approved, referenced master base plan files will be included and the folder name appended to indicate "_Approved".

_RightOfWayPlansDoc

Documentation specific to the deliverable contained in RightOfWayPlans[_Milestone]. Typically a snapshot of the appropriate _CADDoc files.

_ProductMasters

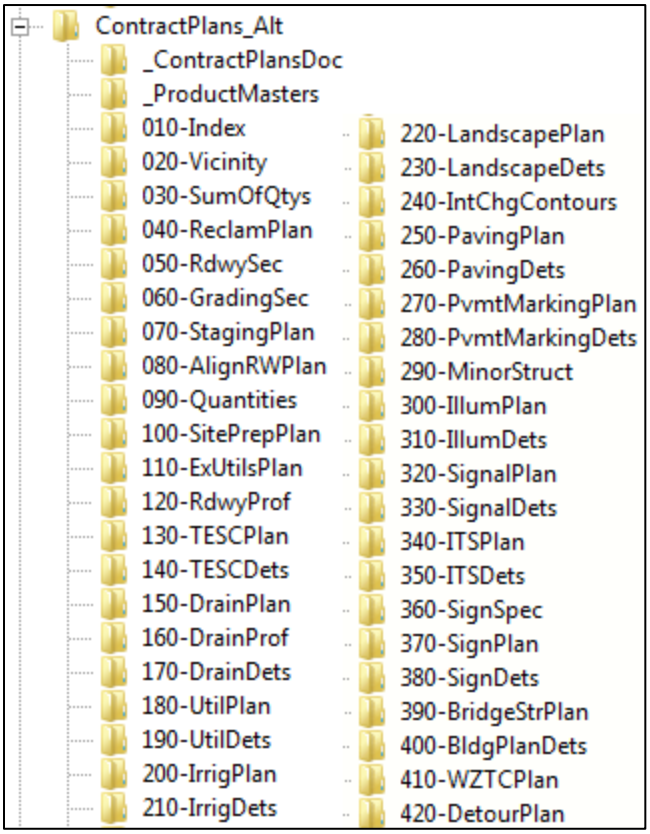
At the time of deliverable completion, a copy of all required base and other files necessary to support the RightOfWayPlans deliverable package will be stored here.

D3.05(1) Alternate ContractPlans Subfolders

The Contract Plans directory may alternately contain subfolders. This may help organize data with large projects and/or when the single-sheet per file approach is used.

The example sub-folders shown in Exhibit 3-4 place each plan type sequentially according to the Plans Preparation Manual Section 400.06(1)(a) via numeric prefix. Not all subfolders may be needed and additional ones may be created as needed by the project.

Exhibit 3-4 Alternative Contract Plans Subfolder



Index – index.

Vicinity – Vicinity map.

SumOfQtys – Summary of Quantities report are generally created outside of MicroStation using the WSDOT EBASE application. PDF output of EBASE reports may be stored here.

ReclamPlan – Borrow, pit, quarry, stockpile, waste sites, and reclamation plans.

RdwySec – Roadway sections for main roadway, ramps, frontage roads, detours, others.

GradingSec – Grading sections, if applicable.

StagingPlan – Stage construction plans, if applicable.

AlignRWPlan – Alignment or alignment/right of way.

Quantities – Quantity tabulation and Structure Notes sheets are generally created outside of MicroStation using the WSDOT Q-tabs application. Actual production sheets may be stored here. For final output, these sheets will be placed immediately prior to the plan sheets showing the work being tabulated per the WSDOT *Plans Preparation Manual* section 4, such as:

- Site Preparation items
- Temporary Erosion and Sediment Control (TESC) items
- Drainage structure notes
- Utility structure notes
- Irrigation structure notes
- Guardrail and Traffic items

SitePrepPlan – Site preparation is existing topography and removal and demolition work may be shown on Alignment Plans; however, if extensive details are required and the plan sheet becomes too crowded, it should be on a separate series.

ExUtilsPlan – Existing utilities is an extension of the Site Preparation Plan and is only required if the existing utilities are so extensive that they cannot be clearly shown on the Site Preparation Plan.

RdwyProf – Roadway profiles normally only required when grade is being revised.

TESCPlan – TESC Plans may not be required if work is minor and can be combined with Drainage Plans or other plan sheets.

TESCDets – Temporary Erosion and Sediment Control (TESC) details. These plans may not be required, depending on the project, and may be combined with Drainage Plans or other plan sheets.

DrainPlan – Drainage plans may not be required if work is minor and can be combined with another series of plans.

DrainProf – Drainage profiles will follow plan series showing drainage features.

DrainDets – Drainage details.

UtilPlan – Utility plans only required if there is work to be done by the contractor on existing utilities.

UtilDets – Utility details only required if there is work to be done by the contractor on existing utilities.

IrrigPlans – Irrigation plans.

IrrigationDets – Irrigation details.

LandscapePlan – Landscape, wetland, rest areas, and viewpoints.

LandscapeDets – Landscape details.

IntChgContours – Interchange contours.

PavingPlan – Paving plans are required for overlay projects when paving breaks, paving dimensions, intersection paving, taper lengths, dimensions of taper widths, and so on, can't be shown adequately on the roadway sections. In this case, the roadway sections, Paving Plans, and Paving Detail sheets are to be prepared in conjunction with each other to show all the paving work.

PavingDets – Paving details.

PvmtMarkingPlan – Pavement marking plan

PvmtMarkingDets – Pavement marking details

MinorStruct – Minor structures such as retaining walls. *May have separate folder for each minor structure.*

IllumPlan – Illumination plans may be shown on Paving Plans if illumination is minor and Paving Plan will not be too crowded.

IllumDets – Illumination details will follow plan series showing illumination layout.

SignalPlan – Traffic signal plans.

SignalDets – Traffic signal details.

ITSPlan – Intelligent Transportation System (ITS) plans.

ITSDets – ITS details.

SignSpec – Sign specification sheets will precede the plan series showing the signing. These files are generally created outside of MicroStation using the WSDOT SignSpec application. Actual production sheets may be stored here.

SigningPlan – Signing plans may be shown on Paving Plans if signing is minor and Paving Plans will not be too crowded.

SigningDets – Signing details will follow plan series showing signing.

BridgeStrPlan – Bridges and other structures. May have separate folder for each structure.

BuildingPlanDets – Building plans and details.

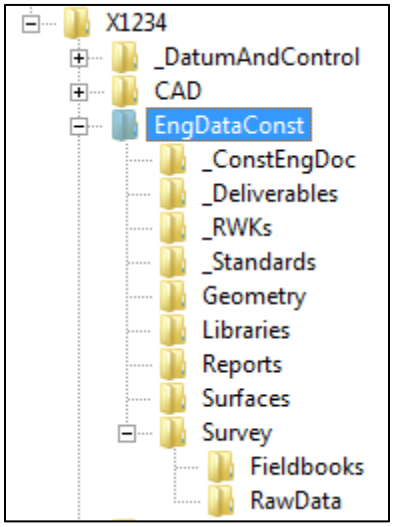
WZTCPlan – Traffic control plans.

DetourPlan – Detour routes and detour signing. If the detour is simple and straightforward, this information may be shown on the Vicinity Map, as long as the additional information does not detract from the Vicinity Map.

D3.06 Engineering Data Construction

All engineering data files developed during the Construction phase, including surveying, will be stored in the **EngDataConst** folder. For ProjectWise projects, see D8.04.

Exhibit 3-5 Standard Engineering Data Construction Folder Structure



D3.06(1) Engineering Data - Construction Project Folder Structure

The Construction project structure consists of:

_ConstEngDoc

For all construction engineering related documentation, including journals, the InRoads project spreadsheet, DTM documentation, and change of condition tracking.

_Deliverables

This is the location for the project copy of deliverable files to customers (Inspection, Contractor, other agency groups, etc.).

_RWKs

This is the location for all construction InRoads project RWK files.

_Standards

All applicable current WSDOT standard references will be copied to the **Standards** folder and pre-pended with the project name. This will create project-specific WSDOT

standards file (for example **ID1234.xin**), which will be stored in this folder and referenced during the project's construction phase. This folder may also contain project-specific drafting note (*.dft) files.

Geometry

All construction InRoads geometry project (*.alg) files will be stored in this folder.

Libraries

All construction project-specific roadway template libraries and roadway definition libraries will be stored in this folder.

Reports

All construction-generated output reports including XML data files, HTML reports, BIN reports, and any ASCII-formatted reports (*.txt, *.rpt, and others) will be stored in this folder.

Surfaces

All construction generated surface (*.dtm) files will be stored in this folder.

Survey

All construction survey files will be stored in this folder.

\Fieldbooks

InRoads fieldbooks (*.fwd), upload files, reports, and other related files.

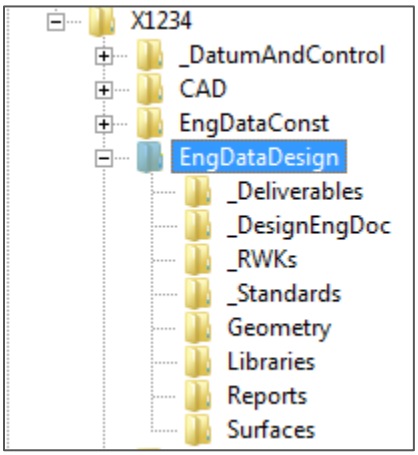
\RawData

This includes data collector download files (*.rw5, *.crd, *.dc, etc.)

D3.07 Engineering Data Design

All engineering data files developed during the design phase will be stored in the **EngDataDesign** folder. For ProjectWise projects, see D8.04.

Exhibit 3-6 Standard Engineering Data Design Folder Structure



D3.07(1) Engineering Data – Design Project Folder Structure

The InRoads design project structure consists of:

_Deliverables

This is the location for project copy of deliverable files to customers (support groups, Construction, other agency groups, etc.) with the exception of drafting (CAD).

_DesignEngDoc

This location is for all engineering data related documentation, including journals, the InRoads project spreadsheet, design-generated project datum calculation reports, geometry and DTM documentation.

_RWKs

This is the location for all design InRoads Project files (*.rwk).

_Standards

All applicable current WSDOT standard references (found in *[…\InRoads_Standards*) will be copied to the **Standards** folder and pre-pended with the project name. This will create the project-specific WSDOT standards file (for example **ID1234.xin***)*, which will be stored in this folder and referenced during the project's design phase. This folder may also contain project-specific drafting note (*.dft) files.

Geometry

All design Geometry Project (*.alg) files will be stored in this folder.

Libraries

All project-specific roadway template libraries will be stored in this folder including Template Libraries (*.itl, *.tml), and Roadway Definitions (*.ird, *.rwl).

Reports

All design-generated output reports including XML reports and any ASCII formatted reports (*.html, *.txt, *.rpt, and others) will be stored in this folder.

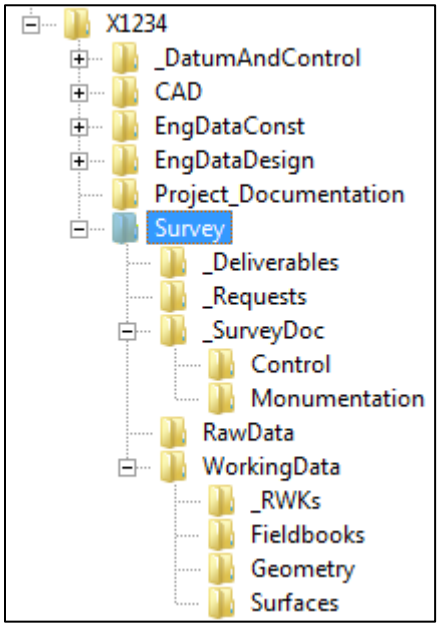
Surfaces

All design-generated surface (*.dtm) files will be stored in this folder.

D3.08 Survey

All survey files collected for scoping, location and design will be stored in the following Survey structure.

Exhibit 3-7 Standard Survey Folder Structure



_Deliverables

This folder contains the complete-to-date survey dataset(s) formatted for use for design purposes.

_Requests

A copy of the completed survey request form will be stored in this folder.

_SurveyDoc

This folder contains audit and revision reports from processing of fwd files and Survey Documentation spreadsheet.

RawData

All original survey data files downloaded from field data collectors (*.crd, *.rw5, *.sdr, etc.) will be stored in this folder.

WorkingData

This folder contains the surveyor's entire working data and is accessed by the surveyor only.

_RWKs

Location for all survey InRoads Project files (*.rwk).

\Fieldbooks

All survey fieldbook (*.fwd) files will be stored in this folder.

\Geometry

All survey Geometry Project (*.alg) files will be stored in this folder.

\Surfaces

All survey-generated surface (*.dtm) files will be stored here.

D3.09 Project Documentation

The **Project_Documentation** folder contains the Project Journal. A project journal template is provided. One application of this journal is to list the reference files that are associated with your CAE data and information.

D3.10 Additional Project Folders

The root level project folders include data and other reference files that are associated with engineering data. These folders may or may not be applicable to the project. However, if applicable, the following standards apply.

Some suggestions for additional folders include:

Commitments	Photos
Correspondence	Presentations
Environmental	Quantities
Estimates	Scoping
Hydraulics_Report	Specials
Permits	

D4.01 General
D4.02 Survey File Naming Conventions
D4.03 Design File Naming Conventions
D4.04 Plan Preparation (CAD) File Naming Conventions
D4.05 Right of Way Plans (CAD) File Naming Conventions

D4.01 General

Standard naming conventions make the data much more portable so that all users can easily recognize and use the files created by others. In addition, the conventions described in this section also facilitate listing files in a logical order and provide information on the file contents at a glance.

This chapter contains information on the file naming requirements for various files included in WSDOT electronic engineering data. These standards are mandatory components of designing a WSDOT project.

D4.02 Survey File Naming Conventions

KEY:

Italics indicate user-defined file name sections using the conventions described below.

Bold indicates mandatory file name sections.

Each file name section is separated by an underscore (_).

ID1234 = Project ID – typically the charge number (*XL1234, C2005*)

PCid = Party Chief's last name and first initial (*HillCL*) no spaces

Desc = Brief, 10-character or less descriptive word indicating main content of file

For example:

BridgeSite = bridge site data

Topo = general topography

Traverse = Control network traverse

WetLands = wetland survey

D4.02(1) ASCII Data Collection Files

File Name	Contents
ID1234_PCid_desc.crd	SurvCE coordinate point list file
ID1234_PCid_desc.rw5	SurvCE raw observation file
ID1234_PCid_desc.dc	Trimble survey data collector file
ID1234_PCid_desc.sdr	SDR-33 survey data collector file
ID1234_PCid_desc.txt or .csv	Text file compatible with InRoads fieldbook import utilities.

D4.02(2) Processed InRoads Field Survey Files

File Name	Type	Contents
ID1234_desc.fwd	ASCII	InRoads survey fieldbook including edited survey observations
ID1234_TRAV.xml	XML	InRoads traverse report file
ID1234_desc.dat	ASCII	InRoads survey traverse adjustment file
ID1234_Control.alg	ALG	InRoads survey geometry file for control points
ID1234_Survey.alg	ALG	InRoads survey geometry file for surveyed features
ID1234_Survey.dgn	DGN	MicroStation graphics file containing all surveyed features with all associated information written to the file
ID1234_Survey.dtm	DTM	InRoads survey geometry file for surveyed features
ID1234_Survey.log	ASCII	InRoads survey fieldbook audit trial file

D4.02(3) Researched Survey/Cadastral Files

File Name	Type	Contents
InRoads		
ID1234_ROW_Existing.alg	ALG	InRoads survey geometry file for existing ROW and property lines (not to be generated exclusively from field work)
ID1234_ROW_Design.alg	ALG	InRoads proposed ROW geometry file
ID1234_ROW_Existing.dgn	DGN	Existing survey ROW geometry in MicroStation format
MicroStation		
ID1234_RW_MonMap.dgn	DGN	Monumentation Map
ID1234_RW_ROS.dgn	DGN	Record of Survey

D4.02(4) Report Files

File Name	Type	Contents
General		
ID1234_PDCalc.XMl	ASCII	Project Datum calculation documentation file
ID1234_Survey_ _Doc.xlsx	XLS	Excel format survey documentation spreadsheet file
ID1234_ desc.rpt	ASCII	Miscellaneous survey job report file
InRoads		
ID1234_desc.txt	ASCII	InRoads coordinate output of all survey points
ID1234_desc.xml	ASCII	InRoads alignment stakeout data
ID1234_desc.xml	ASCII	InRoads baseline stationing output file

D4.03 Design File Naming Conventions

KEY:

Italics indicate user-defined file name sections using conventions described below.

Bold indicates mandatory file name sections.

Each file name section is separated by an underscore (_).

ID1234 = Project ID – typically the charge number (X*L1234, C2011*)

ALname = Main controlling alignment associated with file
(*L2011_I90.alg* includes all geometry associated with the I90 alignment)

BRnum = Bridge number identifier as in *405-11E* indicating bridge 405/11E

DRftr = Drainage feature identifier
(Ex: *D4-3* Drainage sheet 4 note 3 or *LLRetPond1* First Retention Pond on LL Line)

Layer = Layer name (*B2_Subg.dtm* is the subgrade DTM for the B2 alignment)

Desc = Brief, 10 character or less descriptive word indicating main content of file
For example:
B2_FinStage2 = B2 finished grade for stage 2 (L2011_B2_FinStage2.dtm)
Topo = general topography
Traverse = Control network traverse
WetLands = wetland survey

Surf = Name of surface referenced in report and/or table

D4.03(1) Design Files

File Name	Type	Contents
General		
*ID1234*_InRoadsDesignDoc.xlsx	XLS	Project documentation file
InRoads		
ID1234_ALname.alg	ALG	InRoads Highway design geometry file by alignment
*ID1234*_Existing.alg	ALG	Alternate design file consisting of all existing geometry
*ID1234*_Design.alg	ALG	Alternate design file consisting of all new geometry
*ID1234*_Design.itl	ITL	InRoads template library
ID1234_ALname.ird	IRD	InRoads roadway design library
ID1234_desc**.rwk**	ASCII	InRoads Highway design project file
ID1234**_Exist.dtm**	DTM	InRoads DTM for original ground
ALname**_Fin.dtm**	DTM	InRoads DTM for finish grade by alignment
ALname**_Subg.dtm**	DTM	InRoads DTM for subgrade by alignment
ALname**_Strip.dtm**	DTM	InRoads DTM for stripping by alignment
ALname_Layer**.dtm**	DTM	InRoads DTM for roadway sub-layers other than subgrade
BRnum**_Deck.dtm**	DTM	InRoads DTM for bridge decks where Brnum = bridge number
DRftr**_CulFL.dtm**	DTM	InRoads DTM for culverts where DRftr = drainage feature
DRftr**_Pond.dtm**	DTM	InRoads DTM for pond where DRftr = drainage feature
ID1234_Desc**.dtm**	DTM	InRoads DTM for miscellaneous DTM's other than those listed. Surface must be described in ID1234_Project_Doc.xxx file
ID1234.xin	XML	InRoads preference file
ID1234_ALname.xsc	ASCII	InRoads Custom Cross Section set

D4.04 Plans Production (CAD) File Naming Conventions

KEY:

Italics indicate user-defined file name sections using conventions described below.

Bold indicates mandatory file name sections.

Each file name section is separated by an underscore (_).

Typical base plan filename format: *ID1234_FT_XXYY_Desc*.dgn

Typical sheet filename format: 0000_*ID1234_FT_XXYY_001*.dgn

Typical addendum sheet filename format: 0000_*ID1234_FT_XXYY_001_ZZ#.*dgn

0000 = Final sheet number

ID1234 = Project number (*typically a charge number)*

FT = Two letter FILE TYPE code (see FILE TYPE Codes following File Listing)

XX = Two letter PLAN TYPE code (see PLAN TYPE Codes following File Listing)

YY = Two letter *secondary* PLAN TYPE code: this code is used when combining multiple plan types on one file type (see PLAN TYPE Codes following the File Listing)

001 = Optional three digit Plan Reference number
(for multi-sheet files, the first sheet represented in the file).

ZZ# = Plan sheet change type and number AD=Addendum, CO=Change Order,
RV =Revision

Desc = Brief, 10-character or less descriptive word indicating the main content of file. A description may also be applied to sheet files only when necessary to concisely differentiate between multiple like sheet files. For example, staging.
For example: AutoTurn = Turning radius analysis

D4.04(1) File Type (FT) Codes

Type	Description
BP	2D Baseplan
CF	Container File
DE	Detail sheet
EB	Non PS&E multi-purpose exhibit
FG	Non PS&E figures for reports or permit
NT	*Structure Notes
PA	Plan for Approval
PR	Profile view sheet
PS	Plan view sheet
QT	*Quantity Tabs
SQ	*Summary of Quantities
SS	*Sign Specifications
XS	Cross Section view sheet

* May be produced from Qtabs, Ebase or other non-CAD application.

D4.04(2) Plan Type Codes

NOTE: When assigning Plan Type Codes, the inclusion of "EX" indicates that the data contained in the file reflects the existing condition. Any file name that does not have "EX" as a plan type is assumed to reflect the New or Proposed condition.

Type	Description
AL	Alignment
BG	Bridges
BU	Building Plans and Details
CN	Contours
CT	Control for Survey
DR	Drainage
DU	Detour Routes and Signing
EC	Temporary Erosion Sediment Control
EL	Electrical
EM	Environmental Compliance
EU	Existing Utilities
EX	Existing

GS	Grading Sections
HY	Hydraulic
IC	Interchange Contour
IL	Illumination
IN	Index
IR	Irrigation
LS	Landscape
MC	Miscellaneous
MK	Pavement Marking
PV	Paving
RC	Reclamation, Borrow, Pit, Quarry, Etc.
RD	Roadway
RM	Record of Monumentation
RS	Roadway Sections
RV	Record of Survey
RW	Right of Way
SU	Staged Construction
SG	Signals
SN	Signing
SP	Site Preparation
ST	Structures/Minor Structures
TC	Traffic Control
TS	Intelligent Traffic Systems
UT	Utilities
VM	Vicinity Map

4.04(3) Example File Listing

File Name	Type	Contents
*ID1234*_CADProjectDoc.xlsx	XLS	CAD Project documentation file
*ID1234*_BP_*XX[_Description]*.dgn	DGN	PS&E Base plan of features where *XX* = Plan Type
*ID1234*_BP_*EX*.dgn	DGN	Base plan – Existing
*ID1234*_BP_*PA*.dgn	DGN	Base plan – Plans for Approval
*ID1234*_BP_*RW*.dgn	DGN	R/W Base plan
*ID1234*_CF_*XX.dgn*	DGN	Container file where XX = Plan Type
*ID1234*_DE_*SN*_001.dgn	DGN	PS&E Sheet – Signing Plan detail sheet 001
*ID1234_DE_DRPV*_003.dgn	DGN	PS&E Detail Sheet – Drainage and Paving sheet 003
*ID1234*_PR_*RD*_001.dgn	DGN	PS&E Profile Sheet – Roadway Sheet 001
*ID1234*_ PS_*AL*_005.dgn	DGN	PS&E Sheet – Alignment Plan sheet 005
ID1234_ PS_*ALRW*_041.dgn	DGN	PS&E Plan Sheet – Alignment and Right of Way sheet 041 (first sheet in second multi-sheet file)
ID1234_PS_RW_001.dgn	DGN	PS&E Sheet – R/W (for PS&E) Plan Sheet 001
ID1234_PS_AL_001_AD2.dgn	DGN	PS&E Sheet – Alignment Plan Sheet 1 – Addendum 2
ID1234_PS_MC_desc_001.dgn	DGN	Miscellaneous CAD file with description
ID1234_PS_INVM.dgn	DGN	PS&E Index Sheet and Vicinity Map
ID1234_QT_XX.xlsx	XLS	Quantity Tabulation Sheets in Excel spreadsheet
ID1234_DGN-Model_Index.xlsx	XLS	Index file of all DGN files including models used

D4.05 Right Of Way Plans (CAD) File Naming Conventions

KEY:

Italics indicate user-defined file name sections using conventions described below.

Bold indicates mandatory file name sections.

Each file name section is separated by an underscore (_).

Typical Base plan filename format: *SR#_PLAN#_RW_BP.*DGN

Typical sheet filename format: *SR#_PLAN#_RW_PS_SHEET#.*DGN

Typical Review filename format: *SR#_PLAN#_RW_PS_SHEET#R*.PDF

SR# = Sign Route Number of highway

Plan# = R/W office file number (found in lower right hand corner of sheet)

RW = Identifies electronic file as a Right of Way plan

LA = LA may be substituted for R/W on Split plans (Plans Showing Access)

BP = Base map typically prepared by region and used as a reference file.

PS = Plan View Sheet typically prepared by region.

Sheet# = Sheet number assigned within plan set.

R = Region Review copy is a temporary copy of plan revision for review purposes only.

D4.05(1) Example File Listing

File Name	Contents
005_136_RW_BP.dgn	Base Plan for project 136 on I-5
099_115_RW_PS_006R.dgn	Review copy of sheet 6 for project 115 on Hwy 99

D4.06 Geographic Coordinate System

KEY:

Italics indicate user-defined file name sections using the conventions described below.

Bold indicates mandatory file name sections.

Each file name section is separated by an underscore (_).

ID1234 = Project ID – typically the charge number (*XL1234, C2005*)

Desc = Brief, 10-character or less descriptive word indicating main content of file

For example:

PD=Project Datum

GCS = Geographic Coordinate System

D4.06(1) Example File Listing

File Name	Contents
ID1234_PD_GCS.dgn	DGN that contains the Project Datum Geographic Coordinate System
ID1234_PD_GCS.prj	Projection file that contains the Project Datum Geographic Coordinate System

D5.01 General
D5.02 Documentation
D5.03 Data Processing
D5.04 Project Closure and Transition

D5.01 General

D5.01(1) Initiating a Survey

A survey is initiated by completing the Survey Request Form by the Project Manager or designee. Chapter 14 in the WSDOT *Highway Survey Manual* has instructions for completing the Survey Request Form and providing supporting information for the survey such as:

- Project control information including source files for known monumentation
- Project datum calculations
- Any other project-specific information that may impact the surveyor

Upon receipt of the survey request, the surveyor should verify its completeness and adherence to survey request standards before proceeding.

D5.01(2) Data Collection and Processing

Both the requester and the surveyor are required to adhere to the procedures for surveying defined in the WSDOT *Highway Survey Manual*.

The surveyor will use the current WSDOT standard feature codes for InRoads to identify field observations. See **Symbology 2** of this manual for more information on use of feature codes.

Field observations data must be processed and delivered to the requestor in InRoads format and comply with the specific requirements defined in this chapter.

D5.01(3) Data Organization

All electronic project files and data will be organized as defined in **Deliverables 3** and **4** of this manual.

D5.01(4) Incremental Delivery of Survey Data

When incremental transfer of survey data is necessary, each incremental package should include the entire survey dataset (all survey points and survey chains) collected by the surveyor to date. The requester will then overwrite the survey data in their project with the complete, updated survey dataset.

Each package should include all checklist items that apply to the latest dataset, if different from or in addition to the original package.

D5.02 Documentation

D5.02(1) Survey Request Form

The surveyor shall fill out the Surveyor portion of the Survey Request Form as described in Chapter 14 of the WSDOT *Highway Survey Manual* and place the completed form in the **Survey_Requests** project folder.

Survey Documentation Spreadsheet

A Survey Documentation Spreadsheet (see **Forms 2**) must be completed for the project.

The survey documentation spreadsheet will be named ***projID*_Survey_Doc.xlsx** and will be stored in the **Survey_SurveyDoc** project folder.

Project Control

Information on project control monuments that are applicable to the survey/project limits will be provided by the designer or collected by the surveyor. This documentation will be included in the **_DatumAndControl \Control** folder and recorded in the survey documentation spreadsheet.

Monument documentation must include source documentation such as WSDOT Report of Survey Mark or county reports of survey documentation and will be stored in the **_DatumAndControl\ReportsofSurveyMark** project folder.

These documents must indicate the monument designation, latitude and longitude coordinates, State Plane Coordinate (SPC) system coordinates in North American Datum (NAD 83) with proper adjustment designation per WAC 332-130-060, current North American Vertical Datum (NAVD 88) elevation (if measured), method of collection, horizontal and vertical accuracy, units, scale factor and convergence angle.

Monumentation documentation will remain in its original format and retain its original name as provided by the source. Monumentation maps may be scanned and the electronic scan treated as the source. PDF is the preferred format for scanned monumentation maps, although jpg and tif files are also acceptable.

All existing monuments used in the establishment of the project control network must have documentation as described above and have an entry recorded in the survey documentation spreadsheet.

Supplemental Control

Documentation on the supplemental control will be stored in the **_DatumAndControl\Control** project folder.

All supplementary control points for the project must have an entry in the survey documentation spreadsheet.

Supplementary control points must have traverse adjustment notes to document the ties with project control monumentation, boundary monumentation, section corners, and any other points included in development of the project control network.

Traverse Adjustment documentation shall be compiled in either an ASCII text or Microsoft Office-compatible format and shall be named **projectID_ fieldbook name_Adjustment.*.**

Example: XL1234_ Trav1_Adjustment.rpt

Project control points should be named using the Monument ID number or an alpha-numeric three-digit numeric value representing the documented source designation. When entering these points into InRoads, the monument id # or designation should be typed into the point description field along with the referenced State Route (or other street designation) and milepost. For example:

The point GP20097-15 was recorded by the WSDOT GeoMetrix Office using GPS methods. The name used in the project datum documentation will be **MON282** or **GPS15**. The point will have a description of "**GP20097-15 SR97 MP 24.659**."

Conventional Survey Control Documentation shall include the following data:

- Names and coordinates of known primary control (Project Datum per above) to which traverse ties
- Raw, unedited observations file (or report) as collected in the field
- Traverse adjustment report
- Resultant adjusted coordinates

Project Datum

Project datum calculations will be completed per the methodology defined in Chapter 6 of the WSDOT *Highway Survey Manual*. The project datum will be calculated by the regional survey support office. Where multiple combined factors are required, a map of the project datum areas will be provided and (if necessary) impacted control must be documented. The method and decision path of determining project datum coordinates for impacted control must be included in the documentation.

The State Plane to Project Datum conversion report should be in a universally readable format. ASCII Text, Microsoft Excel, or Word file formats are acceptable. This report will be stored in the **_DatumAndControl\ProjectDatum** project folder. The report should be named **projID_PDCalc.***.

D5.03 Data Processing

The surveyor will collect the field data and generate a raw data file. After downloading, the field data files must be processed. Survey data processed with InRoads shall conform to the format and procedures outlined in this section.

D5.03(1) Feature Code Use

The surveyor will use the current WSDOT standard codes for InRoads to identify field observations. All InRoads fieldbook feature codes that are used must be in the current WSDOT standard preference file. If an observed feature cannot be defined by the standard WSDOT feature table, the surveyor will use the nonstandard codes NSP or NSL and assign a note to the observation point describing the nonstandard feature.

The surveyor may submit feature codes that are not in the WSDOT standard feature table to WSDOT CAE Support for possible addition to the standard code list.

D5.03(2) Fieldbooks

Raw data files or field data file (processed data file from another application) will be imported into InRoads Survey fieldbooks (*.fwd files). Each surveyor should create one fieldbook and import all their data files into it.

Fieldbook audit files (*.log files) will be generated to document modifications and adjustments made to the fieldbook information. This file is initiated using the *Tools > Survey Options* dialog. Once this dialog has been revised, the survey preferences should be saved.

D5.03(3) Graphic Files

The final survey planimetrics will be written to graphics to produce a MicroStation DGN file. All survey view options must be selected. This file will be named according to **Deliverables 4.02** and stored in the **Survey\Deliverables** project folder.

D5.03(4) Surface Files

A surface will be created and the final survey fieldbook information will be written to it and reviewed for accuracy. This file will be named according to **Deliverables 4.02** and stored in the **Survey\Deliverables** folder.

D5.03(5) Geometry Project Files

Two geometry projects will be created.

- A geometry project that contains the control points and monuments used in the survey. This file will be named according to **Deliverables 4.02** and stored in the **_DatumAndControl\Control** project folder.
- A geometry project that contains the complete final survey fieldbook dataset and saved to an ALG file in the **Survey\Deliverables** project folder. This file will be named **P1234_Survey.alg**.

D5.03(6) Raw Survey Data

All survey data collected for the project needs to be included in its raw, unedited format. Any modifications or edits prior to import into InRoads must be done on copies of the raw files and noted in the survey documentation. Data collector applications using binary files will be stored in the **Survey\RawData** project folder.

D5.03(7) InRoads Survey Package Deliverables

A complete InRoads survey package consists of all the electronic data in the project's Survey subfolder. This folder contains all files and data necessary for the requester to import and use the survey dataset in InRoads, and the supporting documentation for the survey.

The items listed below must be included in the correct directories:

_DatumAndControl\Control

Project Control

_DatumAndControl\ProjectDatum

Project Datum Documents

_DatumAndControl\ReportsofSurveyMark

Monumentation Documentation

\Survey_SurveyDoc

SurveyDocumentation Spreadsheet

Control Traverse Documents

\Survey\Deliverables

Completed InRoads Survey Dataset Checklist

Processed survey data in fieldbooks (*.fwd)

MicroStation graphics file

InRoads Surface file

InRoads Geometry Project file

\Survey\RawData

Raw survey data files

\Survey\Requests

Survey Request Form (with Surveyor's section completed)

\Survey\WorkingData

Fieldbooks, geometry and surface data that is developed by the surveyor

The **Survey\Deliverables** folder contains all the electronic data necessary for the designer to use the survey in InRoads. This is the only data that will be used directly in the design phase. Access to the other subfolders under the Survey project folder is necessary for backup and overall project documentation.

D5.04 Project Closure and Transition

D5.04(1) Preparation of Deliverable Package

General requirements for the transfer, review and acceptance of the data are detailed in **Deliverables 2**.

The surveyor will prepare a complete survey package as described in this chapter by assembling all the appropriate electronic information in the Survey subfolder and notifying the requestor that the survey has been finalized.

On projects with multiple surveys delivered independently, each set of files prepared for design will either be in its own zip archive or its own subfolder within the **Survey\Deliverables** subfolder. Each separate design file set will include the submittal/revision number in its zip filename or subfolder.

Delivery can be accomplished by providing the requester access to the entire Survey folder if both surveyor and requester share a network resource and can both reference the same project folder.

If a shared network location is not an option, the surveyor will provide the requestor with a copy of the project's Survey subfolder. This can be accomplished using any medium that can reliably contain the entire folder structure. (e.g., an email, an FTP site, a compact disk or a DVD).

D5.04(2) Data Archival

On projects where the surveyor is internal to WSDOT, it is the surveyor who is responsible for archival of the final electronic survey data per the region's policy for archival of electronic project data. When the surveyor is external to WSDOT, it is the requester who is responsible for archival of the final electronic data per the region's policy. If no regional archival policy exists, the responsible party needs to ensure the data is appropriately archived for future reference.

D6.01 General
D6.02 Data Organization
D6.03 Requirements for Specific Data Types
D6.04 Project Closure and Transition

D6.01 General

This chapter defines the file organization structure, data formats, and delivery procedures for the electronic engineering data created during a highway design project. These standards are mandatory components of designing a WSDOT project. The designer is responsible for resolving all omissions, deficiencies, and errors in a timely manner to prevent any negative impacts on the construction project schedule.

D6.02 Data Organization

All electronic project files and data will be organized as defined in **Deliverables 3** and **4** of this manual.

D6.02(1) InRoads Project Spreadsheet

The InRoads Project Spreadsheet contains pertinent information on the various elements that make up the InRoads project. The InRoads Project spreadsheet is the guide to the project's contents, and provides information on how the various design feature components relate to one another.

The categories documented in the InRoads Project Spreadsheet are shown below. Specifics required for each general category can be seen in the InRoads Project Spreadsheet (see **Forms 4**).

- Project Information
- Monumentation information
- Geometry (ALG) information
- Surface (DTM) information
- Libraries (ITL, IRD) information
- Resource file (XIN) information

The InRoads project spreadsheet will be named *ID1234*_**InRoadsDesignDoc.xlsx** and will be stored in the **EngDataDesign_DesignEngDoc** project folder.

D6.02(2) Project Journal

The designer will create and maintain a project journal, which is used as a living document to record the project's design progress. The project journal will provide sufficient detail so that anyone reviewing the project can see the project's evolution.

The project journal shall include alternatives considered and the related data locations, documentation on data brought into the project, and details on major design decisions.

The purpose of the project journal is the recording of details related to the final design and the considered alternatives, so that anyone reviewing the project can understand the project's design methodology as it relates to the engineering data. Entries in the project journal should be as descriptive as possible. The project journal is created and maintained in the **EngDataDesign_DesignEngDoc** folder.

Below are a few examples of project journal file entries though not all potential types of entries are covered. If the designer is making an addition or revision that directly relates to the use of the final design data, it should be documented in the project journal file.

- Any modifications to the project-specific resource file
- Notation on the importation of any new datasets into the project, their sources and any manipulation of the source data (datum transformation, clipping, etc.) performed
- Any change in the project's datum or coordinate system
- General design philosophies used (for instance, it would be noted how the designer broke up the project up into design components and how the design components relate to one another for volume computations).

A Project Journal Template will be copied to the **EngDataDesign_DesignEngDoc** project folder at project creation. The copied template file will be renamed to *projID***InRoadsJournal.xlsx**. This file is automatically set up when the WSDOT Create Project Utility is utilized or the journal template file can be saved to the proper location and renamed manually.

D6.02(3) WSDOT Standard Resources

Designers will use the most current WSDOT resources for InRoads including feature styles, super tables, macros and roadway components.

WSDOT InRoads resources are automatically downloaded to all WSDOT computers connected to the network and are updated as needed.

The MicroStation working seed file for InRoads is located in the resource location that is appropriate to the Windows version, in the **…seed\InRoads3D.DGN** folder.

WSDOT provides consultants with a complete set of InRoads resource files in the form of libraries, tables, macros and configuration files. These files are available for download from WSDOT's CAE website at:

http://www.wsdot.wa.gov/design/cae

D6.02(4) Project-Specific Resources

The WSDOT CAE Create Project process automatically copies the necessary civil, geometry and survey preference files into the **EngDataDesign_Standards** folder, and renames them to include the project name. These copies are the project-specific resource files that need to be used during design, and archived with the project.

WSDOT provides tools and procedures that facilitate InRoads users in maintaining their project and user specific preferences, styles and symbologies and still keep current with standard WSDOT CAE preferences, styles and codes. Designers will use the tools and procedures that are documented on the WSDOT CAE website (http://www.wsdot.wa.gov/design/cae) to keep the WSDOT standard portions of the project specific resources in synch with the latest release of the WSDOT resource files each time the standard WSDOT files are updated.

All permanent project elements will have a feature style or geometry style assigned. Design elements should be assigned standard WSDOT feature styles, geometry styles, survey features names.

D6.02(5) Descriptions

InRoads commands for creating alignments, roadways, surfaces, templates, etc., include a description field. The designer will use these input fields to describe an element beyond what is required by the element naming conventions described later in this section. Descriptions can contain such information such as alignment references, DTM names, stations, dates, links to other files, etc.

D6.02(6) Project Datum

Per the *WSDOT Highway Survey Manual*, a project datum should always be calculated and used for WSDOT data.

Project datum calculations will be completed per the methodology defined in Chapter 6 of the WSDOT *Highway Survey Manual*. The project datum may be calculated by the designer or the surveyor depending on the project requirements. Where multiple combined factors are required, a map of the project datum areas will be provided and (if necessary) impacted control must be documented. The method and decision path of determining project datum coordinates for impacted control must be included in the documentation.

The State Plane to Project Datum conversion report should be in a universally readable format. ASCII Text, Microsoft Excel, or Word files are acceptable formats. This report will be stored in the project network file structure in the **Survey_SurveyDoc** folder

The report should use a projID_description naming convention.

Example: L1234_State Plane to Project Datum.rpt

D6.02(7) Project Monumentation

Monumentation maps that are applicable to the survey/project limits will be provided by the designer or collected by the surveyor. This documentation will be included in the final project documentation package in the **_SurveyDoc** folder of the project directory structure

Monument documentation must include source documentation such as WSDOT Monument Database Report of Survey sheets or county reports of survey documentation. These documents must indicate the monument designation, latitude and longitude coordinates, current legal State Plane Coordinate (SPC) system coordinates (NAD 83/91), current North American Vertical Datum (NAVD 88) elevation (if measured), method of collection, accuracy, units, and scale. An index file listing each document and its source and contact information is required.

Monumentation documentation will remain in its original format and retain its original name as provided by the source. Monumentation maps may be scanned and the electronic scan treated as the source. PDF is the preferred format for scanned monumentation maps though JPG and TIF files are also acceptable.

D6.03 Requirements for Specific Data Types

There are many InRoads database elements and files required to complete the design project. Those that have specific requirements are detailed throughout this section.

D6.03(1) Survey Data

Surveyed data is assigned InRoads feature styles by virtue of the translation process between field survey feature codes and InRoads civil configuration settings.

All features for survey and mapping will be standard as per the WSDOT feature table. The proper assignment of feature will ensure that the ground attribute, color, level, weight, cell, and style will be correct throughout the design process.

The surveyor and designer will make full use of the description field if additional information is needed to describe the element beyond what is required by the naming convention.

D6.03(2) Geometry Elements

Geometry elements in InRoads shall be stored in an ALG file using the project name. Individual alignments may be set Read-Write or Read-Only for the purpose of file sharing, but all alignments should be set to Read-Write before delivery. In exceptional cases where more than one project ALG file is necessary, a description shall be appended to the project name. All geometry elements shall be properly documented in the InRoads Project Spreadsheet.

Horizontal Alignment Geometry

InRoads horizontal alignments will have names that match those used within the contract drawings wherever possible. This will be in the form of the horizontal alignment name followed by an optional description. The following standards encourage ideal search and filtering options.

Alternate alignments are not intended as deliverables and should be designated specifically with the characters "_Alt" and the alternate's number.

Examples:

LL – LL Line

LL_Alt2 – Alternate 2 LL Line

LM_Centerline – LM Line

HighPtRd – Highpoint Road

Horizontal Alignment COGO Elements – Points, Curves, Spirals, SCSs

Point names in the Cogo Buffer are ideally numeric only, due to some special characters that InRoads uses to edit alignments. InRoads contains a specialized command that allows alpha-numeric point names, and these can be used with the proper setup and syntax.

Ditch Geometry

Alignments that control ditches will have the prefix of the related horizontal alignment followed by the characters "Ditch". An odd number would indicate a ditch to the left of the alignment and an even number indicates a ditch to the right.

Examples:

BLine_Ditch1 – First ditch on the left of the B Line

Either: **LR_Ditch3** – Second ditch on the left of LR Line

Or: **LR_Alt1_Ditch3** – Second ditch on the left of LR Line Alternative 1

Wall Geometry

Alignments that control walls will be named in one of two ways: **Wall#_Desc** or **Centerline_Wall**.

Examples:

Wall1_Workingline – Working line of first wall on the left side of the project corridor

LR_Wall2 – First incidental wall on the right side of the alignment

Offset Geometry Alignments

Geometry related to the alignment, including all horizontal controlling alignments used in the compilation of the final template will have the same prefix as the alignment and a descriptive component (often the standard field code or an abbreviation of the feature style name is used). This allows for ideal corridor geometry filtering for data management.

Though not a strict standard, it is useful to number the alignments so that odd numbers are on the left and even numbers are on the right, ideally in increasing order as you move out from the alignment itself. "Lt" and "Rt" designators are also acceptable.

Examples of controlling and offset alignment names:

LL – Controlling alignment

LL_ELNew1 or **LL_EdgeLineNew1** – First left edge line new

LL_LLNew2 or **LL_LaneLineNew2** – Second right lane line new

LL_LLNew3 or **LL_LaneLineNew3** – Second left lane line new

LL_LLNew_Rt or **LL_LaneLineNew_Rt** – Right lane line new

LL_ETWNew1 or **LL_EdTravWayNew1** – Left edge of traveled way new

LL_ETWNew2 or **LL_EdTravWayNew2** – Right edge of traveled way new

LL_EPSNew_Lt or **LL_EdPavShldNew_Lt** – Left shoulder paved edge new

Right of Way Geometry

The basic naming convention for new right of way geometry is to prefix the geometry name with "RW." An odd number indicates an alignment left of the controlling alignment and an even number indicates one to the right. The designer should make full use of the description field if additional information is needed to describe the element beyond what is required by the naming convention.

D6.03(3) Superelevation

The superelevation is a process of the InRoads Roadway Designer and is associated with a corridor. The superelevation naming convention is to use the name of the primary alignment that is the geometric control for the corridor.

If more than one superelevation design is needed for a horizontal alignment, an underscore character followed by descriptive information should be appended to the controlling alignment name, which will be the corridor name in the Roadway Designer.

D6.03(4) Vertical Alignments

If there is only one vertical alignment associated with a horizontal alignment, it should have the same name as the parent horizontal alignment. When there are multiple alignments associated with a horizontal alignment, the vertical alignments should have an underscore character followed by descriptive information appended to the controlling alignment name.

Examples: for multiple vertical alignments associated with horizontal alignment **LL1**

LL1_DesignSpeed60 – Profile with sight distances calculated for 60 mph

LL1_DesignSpeed50 – Profile with sight distances calculated for 50 mph

D6.03(5) Design Templates

Template Libraries

A single design template library deliverable must contain all of the templates necessary for the project design. Although multiple libraries may be used during the design phase, the final template library will be a collection of each designer's templates, components, and end conditions.

The InRoads template library format is *.ITL and the basic naming convention for this template type is the project name as the prefix. Each template folder category within the library has a descriptive name that indicates the component type (lane, sidewalk, structures, etc.) or end condition.

The InRoads Roadway Designer shall be processed with the final deliverable files, all alignment or stationing issues (red and blue text) resolved and templates synchronized. The design corridors shall be fully functional in the roadway designer and capable of producing the delivered surfaces.

Roadway Design Libraries

The InRoads roadway design library uses the *.IRD file format for specifying roadway corridors and superelevation specifications. The file naming convention for this library is to use the project identifier as the prefix and a concise description of the intended use (e.g. **XL1234_Roadways**, **XL1234_Walls**, **XL1234_I405-SR522IC**, etc.).

D6.03(6) DTM Surfaces

Documentation for DTM surfaces

Documentation for DTM surfaces will be stored in the **EngDataDesign_DesignEngDoc** folder. The InRoads Project Documentation spreadsheet contains a tab for documenting the surfaces in the InRoads project. All steps necessary to recreate the existing surface from the original data sets will be documented in this file or in separate narrative files. The documentation will include which datasets were used, any transformations necessary and any edits done in design to the original survey data. Merged design surfaces will be documented in the same manner.

Existing Ground Surface

The DTM surface that best models the existing condition for the project will include the name **EXIST** (e.g., P1234_Existing.dtm). Other existing surface models will have descriptive names prepended with "EX."

Finish Surfaces

The DTM surface that best models the finished condition for the project will include the name FIN. Other finished surface models will start with the characters "F." Finished surface layers that are generated by the InRoads Roadway Modeler will include the alignment name, followed by the layer name.

Examples:

LL1_FIN.dtm

LL1_SUBG.dtm

LL1_CSTC.dtm

Other Surfaces

Names of surfaces created for work with staged construction, ponds or other project features will be descriptive and will tie the surface to the design element they represent in the plan set.

D6.03(7) Cross Sections

Existing and finish ground cross sections will be created in a special design file named *projID*_**xsc.dgn** with each cross section set labeled. Standard WSDOT cross section preferences should be used. The naming convention for the InRoads custom cross section set text file is **P1234_ALname.xsc**. The cross section DGN and XSC files are placed in the project's **\...\EngDataDesign_Deliverables** folder.

D6.03(8) Report Files

The **Reports** folder will include:

- End-area volumes
- XML alignment reports
- Superelevation transition reports
- Other text reports that describe geometry or surface elements generated during the design process

Designers should use descriptive names that relate directly to the design function performed and the data being used when creating other design-related report files.

D6.03(9) DGN Design Files

Designers will create a DGN of the final design to graphically document the finished product and make design element retrieval and viewing easier. This practice provides anyone reviewing the data with an easy method to view all design elements related to different components of the final design.

D6.03(10) RWK Files

Designers will maintain up-to-date project listing files and file paths in the form of RWK files. The RWK files point the InRoads program to the physical location of the project files, including surfaces, typical section libraries, coordinate geometry projects, roadway libraries and preference files. The RWK files shared between design groups can reference the specific file names only and do not need to include the full path if the referenced files are in the same project folder.

D6.04 Project Closure and Transition

The following requirements will apply after the designer has prepared all the appropriate electronic information for an InRoads design package as described in **Deliverables 6.02**.

D6.04(1) Project Cleanup

The final data set contains the InRoads design data and all supporting information necessary for the customer and/or future designers to understand and use the data in InRoads. All data not necessary for construction of the project or of use to future designers should be deleted. The resulting dataset should contain only the data necessary for the final project design.

To ensure the quality of the engineering data, the following InRoads utilities should be used on the InRoads project prior to compiling the Design and Construction archives.

- The InRoads *Remove User Data* application add-in removes the GUID that InRoads assigns to the alignment when that element is copied from another alignment. This tool makes the alignment and all copies derived from it into simple graphics.
- The *Geometry Utilities Assign Names* command cleans up the COGO Buffer by deleting extraneous points and ensuring that each point is assigned. This tool also checks for coincident or duplicate points.
- The *Check Integrity* commands check horizontal and vertical elements identifying and fixing discontinuities, non-tangencies, transposition, mismatched radii and other issues relating to the geometric integrity.
- The *Compress Surface* command removes points that are marked as deleted in the surface model, which reduces the size of the model on disk and in memory.

D6.04(2) Preparation of Construction Deliverable

Upon completion of the design process, the construction deliverable will be prepared and placed in the ***projID*\EngDataDesign_Deliverables** folder. This deliverable is a subset of the EngDataDesign data, and contains only the information that is needed by the construction office. Generally, this subset is prepared by copying the entire dataset and then removing all data related to considered (but not selected) alternates, to permit applications, or to any other data not specifically needed for the construction of the project.

D6.04(3) Archival of Design Data

The entire ***projID*\EngDataDesign** folder will be archived according to regional archive policies. Archiving the entire folder ensures that all files pertaining to the final design - including all alternatives considered and a snapshot of the file set delivered to construction - are preserved and available for a future designer.

D6.04(4) Delivery of Final Package

General requirements for the transfer, review and acceptance of the data are detailed in **Deliverables 2**.

Delivery will be accomplished by providing the customer access to the project folder if both the designer and the customer share a network resource that allows them both to reference the same folder structure. Access to the entire project folder is necessary when transferring interrelated survey, design and CAD data sets. However, if the InRoads design data is independent of other project data relating to CAD and survey, then access to just the **EngDataDesign** subfolder is sufficient.

If a shared network location is not an option, the designer will provide the customer with a copy of the final data. This can be accomplished using any medium that can reliably contain the entire folder structure to be transferred (e.g., an e-mail, an FTP site, a compact disk, portable flash drive or a DVD).

D6.04(5) Data Archival

On projects where the designer is internal to WSDOT, it is the designer who is responsible for archival of the final electronic design data per the region's policy for archival of electronic project data. When an external supplier is providing data to WSDOT, it is the WSDOT customer who is responsible for archival of the final electronic data per the region's policy.

If no regional archival policy exists, the responsible party needs to ensure the data is appropriately archived for future reference.

Deliverables 7 Drafting and Plans Preparation

D7.01 General
D7.02 WSDOT Resources and Related Conventions
D7.03 File Types and Requirements
D7.04 Drafting Deliverables
D7.05 Project Closure and Transition

D7.01 General

This chapter defines the standards required for preparing electronic Computer Aided Drafting (CAD) data at major milestones including final delivery. These standards are intended to complement the WSDOT *Plans Preparation Manual* (PPM), but relate to the electronic files specifically. The PPM will supersede in the case of any conflicts with this manual.

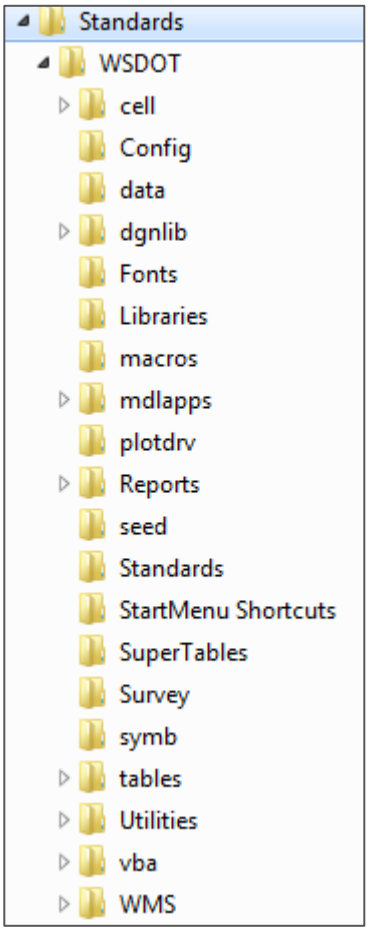
The designer is responsible for resolving all omissions, deficiencies, and errors in a timely manner to prevent any negative impacts on the project schedule.

D7.02 WSDOT Resources and Related Conventions

CAD operators will use the most current set of WSDOT resources for MicroStation, including levels, seed files, cell libraries, linestyle resource files, plot configuration files and pen tables.

The WSDOT CAE resource environment provides files and electronic resources organized under a master resource folder. The master resource folder contains all of the electronic resources necessary for WSDOT Plans, Specifications, and Estimates (PS&E) and Right of Way contract plan set development (see Exhibit 7-1).

Exhibit 7-1 WSDOT Resource Folders



D7.02(1) Cells

Cells represent point symbology for all disciplines in MicroStation. From single feature symbology in base plans to legends, schedules, and details in sheets, they are compiled into libraries in the *Cell* folder with file extensions of *.cel.

…*cell***WAESTATE.CEL** contains WSDOT standard element cells and symbology. Base plan cells, designed specifically for base plans, have master units of feet and are placed according to their type – either symbol or true-sized cells. All cells will place correctly in both USFt and Inch WSDOT files using the Place WSDOT Item utility. However, placing cells outside of this utility must consider scaling appropriately to WSDOT standards.

…*cell***WAEDETAILS.CEL** contain WSDOT standard cells and symbology for sheet files, as well as a starting point for additional template project-specific and general details.

Cells that are designed for placement in the sheet file are named with the **SH** parent code and have master units in inches. These cells are placed directly in the sheet file at a scale of 1:1 for multiple sheet-per-file approach (see D7.03(2)(a)) and the drawing scale for single sheet-per-file approach (see D7.03(2)(b)).

Base file symbol cells appear on plan sheets and are always the same size on the paper regardless of the plan sheet scale. On the printed plan, symbol cells do not reflect the actual size of the object they represent, just the locations. Examples of symbol cells are

catch basin and utility pole symbols. WSDOT symbol cells apply the drawing scale that size them appropriately on the printed sheet. When placing these cells in the base plan, they must be scaled up by the same scale factor as the sheet. Consequently, when placing cells for a base plan that will be plotted at 1”=100’, the cell should be placed at an active scale of 100. This scale is set automatically when the Place WSDOT Items menu and scale tools are used.

Base file true-size cells are cells that are always the actual ground size of the objects they represent. Examples of true-size (also referred to as non-scalable) cells include many of the painted pavement markings such as the HOV symbol and RR crossing symbol. True-size cells are sized in the library so that they should always be placed at an active scale of 100 in the base to reflect the true ground size regardless of plotting scale. True-size cells are flagged in the **Symbology 4** and **5** sections of this manual and on the Place WSDOT Items menu to indicate this behavior.

The correct cell size is calculated automatically when using the Place WSDOT Items menu based on the scale selected, the type of file (sheet or base) and the type of cell being placed. When not using WSDOT utilities to place symbology, the active scale should be set appropriately.

Sheet cells can be manually placed in the base files by selecting the desired plotting scale and making sure that the True Scale option is turned off. Base cells can be manually placed in a sheet file by selecting a scale of 1 and making sure that the True Scale option is turned off.

D7.02(2) DGNLib CAD Libraries

DGN Libraries contain the WSDOT standard leveling scheme as well as custom menu options used in WSDOT workflows. They also contain other functional customizations such as filters and print styles. These files are stored in the **...\dgnlib** folder and should not be modified in any way.

A secondary project level DGN library is stored in the project directory structure in the **CAD_Rsc\DGNLIB** subfolder. The ***ProjectID*.dgnlib** contains project specific levels that are above and beyond the standard scheme and any user-defined filters, or tools for the project.

NOTE: In order for this file to be available in MicroStation, the **CAD_Rsc\dgnlib** folder must be added to the MicroStation environment variable MS_DGNLIST. MS-DGNLIST is modified automatically when the *Create WSDOT Project* utility is used and the MicroStation project is selected through the MicroStation File Open dialog box.

D7.02(3) Fonts and Text

All WSDOT standard fonts are stored in the *…\Fonts***\font.rsc** file. In most cases, PS&E plans use font 164 (Arial Italic) to call out existing features and font 217 (Arial Bold) for new features. Right of Way also typically incorporates font 200 (Arial). Exceptions and more specific details can be found in the **Symbology 4** and **Symbology 5** sections of this manual.

For PS&E and Plans for Approval (PFA) plan sheets, minimum text size is 0.07” on the 11” x 17” printed sheets.

For Right of Way (R/W) plan sheets, minimum text size for existing text is 0.10” and 0.12” for new text on 22” x 34” printed sheets.

Text at minimum sizes shall be all upper case. Text at larger sizes may be in upper and lower case.

Specific font and text size requirements for each data item can be found in the **Symbology 4** and **Symbology 5** sections of this manual.

When working in a base plan, the relationship between printed text size in the **Symbology 4** and **5** sections of this manual and the text size setting in MicroStation is:

MicroStation setting = final print size x plotting scale.

To place text in a base file that is to be .07 inches on paper with a plotted scale of 1”=50’, multiply .07 inches times 50 feet per inch to get 3.5 feet. Similarly, the text size setting in a base file to produce text at 0.1 inches on a 1”=100’ scale drawing is 0.1 inches times 100 feet per inch or 10 feet.

When working in a sheet file, the text size should always be set to the true size desired on the final drawing as specified in the **Symbology 4** and **5** sections of this manual. Text size is calculated automatically when using the Place WSDOT Items menu based on the scale selected and the type of file you are working in (base plan or sheet).

D7.02(4) Plotting Resources

Configuration Files

When plotting WSDOT plan sets, the standard deliverable plot configuration files for MicroStation are in the **…\plotdrv** folder.

These plot configuration files must be used to ensure the linestyles and weights plot according to WSDOT standards. The major plot configuration files and their uses are shown in the following table.

Plot Configuration File	Output
EngBWFull.pltcfg	Black and white, 34 x 22 plots
EngBWHalf.pltcfg	Black and white, 11 x 17 plots
EngCFull.pltcfg	Color, 34 x 22 plots
EngCHalf.pltcfg	Color, 11 x 17 plots
PDF_EngBWFull.pltcfg	PDF format, black and white, 34 x 22 plots
PDF_EngBWHalf.pltcfg	PDF format, black and white, 11 x 17 plots
PDF_EngCFull.pltcfg	PDF format, color, 34 x 22 plots
PDF_EngCHalf.pltcfg	PDF format, color, 11 x 17 plots

Pen Table

Pen tables contain instructions for re-symbolizing the printed output of DGN files. At WSDOT, this typically takes the form of printing sequence.

When plotting WSDOT plan sets, the …*plotdrv***wsdot.tbl** pen table should be used. This pen table prints shapes first, then other vector elements so that the shape appears behind the other graphics regardless of the priorities assigned by MicroStation. **WSDOT_OrderByMS.tbl** prints the elements honoring the priority assigned in MicroStation.

Print Styles

A limited set of Print Styles are available for use with MicroStation's Print Organizer. These are for various sizes of PDF prints from both base and sheet files. They are automatically configured to be available using the WSDOT environment. These styles are stored in a DGNLib file within the WSDOT resource file set.

D7.02(5) Seed Files

WSDOT seed files shall be used when creating files for PS&E, PFA, and R/W plan sets. These files include tags and other properties that indicate their function and purpose.

The …*seed***PSE_BASE.dgn** file is the seed file to be used when creating PS&E and PFA base plan DGN files.

The …*seed***PSE_SHEET.dgn** file is the file to be used when creating PS&E and PFA Sheet DGN files.

The …*seed***RW_USFoot.dgn** file is the seed file to be used when creating R/W base plan or R/W sheet DGN files.

Sheet files are designated via a property in the seed that indicates their master units to custom utilities for placing and printing WSDOT sheet borders. R/W files are also designated via this same property and are handled differently when placing scaled symbology due to the full size deliverable requirements.

Details on the WSDOT seed files are as follows:

PSE_Base and RW_USFoot seeds:

- Master Units: US Survey Feet – FT
- Sub Units Custom – th (1000 th per FT)
- Resolution: 1,000,000,000 (1B) per US Survey Foot
- 2D workspace

PSE_Sheet seeds:

- Master Units: Inches – in
- Sub Units Custom – th (1000 th per in)
- Resolution: 1,000,000,000 (1B) per Inch

- 2D workspace

D7.02(6) symb Line Styles

All WSDOT custom linear symbology or *Line styles* are available through the **…***symb***LSTyles.rsc** file. These linestyles are stored in the RSC file at the true size they will appear on the printed sheet.

When placing custom line styles in a base plan, they must be scaled up by the same scale factor as the sheet. Thus when placing a line style that will be plotted out at 1”=100’, the line style should be placed at an active line-style scale of 100.

If a custom line style needs to be placed in the sheet file (e.g., in a legend), it should be placed at an active line-style scale of 1.

Custom line style scales are calculated automatically when using the Place WSDOT Items menu based on the scale selected and the type of file (sheet or base).

Changing line style scales after placement to meet WSDOT standards may be done using native tools.

D7.02(7) symb Color Table

By default, the color table located in the *…**symb***color.tbl** file should be attached to WSDOT DGN files. The **color.tb**l is configured to color all elements according to their parent category so that each major group has its own color.

Optionally, **Color2.tbl** may be useful when working on a specific major category of features as it breaks up the set of elements having the same parent code into subgroups that show up with different colors.

For example, with **color.tbl** attached all new utilities display in the same color. With **Color2.tbl** attached, new utilities display with the various utility types (water, gas, telephone, etc.) in different colors.

D7.03 File Types and Requirements

Deliverable data for a MicroStation electronic plan set is stored in either a base or a sheet file. This section will define these two file types and their requirements.

D7.03(1) Base Files

The **_BaseFile**s folder stores all vector files that are referenced to contract plan sheet files. These could be a number of types of files that are set to real world units, not paper units. The data is located in the file coordinately correct per the project datum documented in the _DatumAndControl project folder.

Base Plans are 2D DGN files that contain coordinate (XY) based information for the plan set. This includes all survey data, Photogrammetry data, locations for all new data and all metadata text related to those elements and features. This file type is typically maintained by a drafter for the sole purpose of supporting plans preparation.

Base Maps are 3D DGN files that contain coordinate (XYZ) based information for the plan set. This typically includes survey data, Photogrammetry data, surface data, and

volume graphics. This file type is usually maintained by a designer or surveyor and not typically referenced directly to a sheet file.

Depending on the project footprint, activity, and other factors of any specific project, there may be one or more base plans. For small, simple projects it may make more sense to keep all coordinate-based data in one base plan. With more complicated projects it is commonly more efficient to split the coordinate-based information into multiple base plans. Typically these multiple base plans would contain data for specific activities that translate to plan types (e.g., drainage, channelization, and site preparation) or sources of data (e.g. existing condition, alignments). A multiple base plan organization allows more than one drafter to access and work on base plan data simultaneously. Either configuration is acceptable. However, experience may prove that setting up multiple base plans in the beginning is easier to adjust to project scope creep rather than attempting to manage more than is practical in a single file.

File Naming for Base plans

Base plans will all have a file type code of BP. (See **Deliverables 4** for complete details).

Examples:

XL1234_BP_EX.DGN	Base plan containing all existing data
XL1234_BP_DR.DGN	Plan containing all new drainage data
XL1234_BP_ALRW.DGN	Plan containing all new alignment and R/W data
XL1234_BP_PFA.DGN	Base plan containing Plans for Approval (PFA) intersection/interchange data

Saved Views in Base Plan Files

If saved views are to be used in base plan files, each sheet border will have a saved view assigned to include the full border location and limits with the view rotated so that the border is square with the view window

Generic Location Saved Views

This method requires that a saved view be generated for each sheet location. All saved views in the base plan must be rotated so that the controlling alignment is horizontal across the saved view as it would be in the sheet (top and bottom borders at absolute East-West orientation). This rotation of the saved view is what controls the orientation of the reference file in the attachment to the sheet file. In this method, level display will be maintained through the sheet file references.

Project Filters in Base Plan Files

The WSDOT environment contains a set of filters for standard plan types stored in the **WSDOT.dgnlib** file. These filters can then be used to adjust levels in sheet and base plans. Custom filters will be stored in the WSDOT resources.

If used in the base plan, custom filters will be documented in the *Base Plan Doc* tab of the **ID1234_CAD*Project*Doc.xlsx**.

Project Datum

The datum used in the base files shall match the datum and units used throughout the project. Typically this is a project datum in US Survey feet.

D7.03(2) Sheet Files

Sheet files contain sheet borders with associated title block information and all elements that are placed in relation to the sheet border such as notes, legends, scale bars, match lines and north arrows.

Sheet Border Dimensions (in paper units)

Each PS&E sheet border measures 10” x 15.75” and is positioned in a plot limit shape to provide the standard margins on 11” x 17” paper.

Each PFA sheet border measures 20” x 31.5” and is positioned in a plot limit shape to provide the standard margins on 22” x 34” paper.

Army Corps of Engineers sheet borders are in portrait mode and measures 8” x 9.8” sheets centered on 8.5” x 11”.

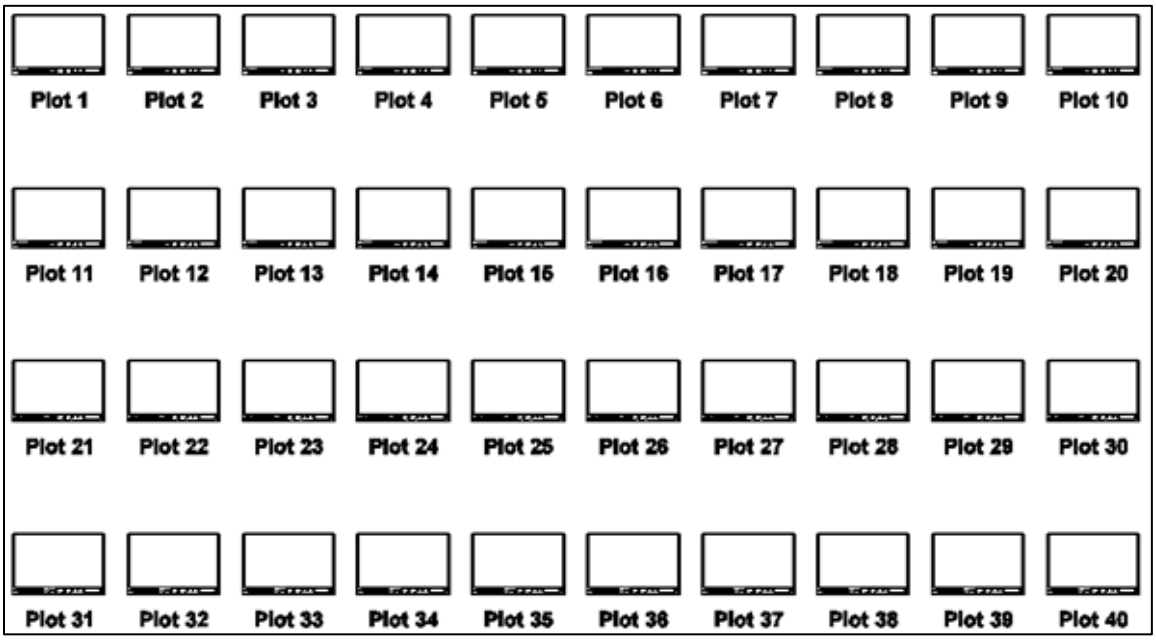
Each Right of Way sheet border measures 21” x 33”. Standard margins are 0.5” on all sides on 22” x 34” paper.

Each Record of Survey sheet border measures 17” x 21.5”. Standard margins are 2” Left, 0.5” all other sides on 18” x 24” paper.

(a) Multi-Sheet Matrix Method

Using the Place WSDOT Items menu, sheet border cells are placed in the sheet file at an active scale of 1 in a matrix shown below.

Exhibit 7-3 WSDOT PS&E Sheet Matrix



The origin of the multi-sheet matrix is the lower left corner of the Plot 1 border and is at coordinates of 100000, 100000. PS&E rows are 20 inches apart and the columns are 30 inches apart. The matrix can contain up to 40 sheets, but borders should only be placed as needed. Final sheet files should not contain any empty borders.

This method shall use the **PSE_Sheet.dgn** WSDOT seed files to ensure that their master units are inches, and that WSDOT settings and tags are present and appropriate.

Use of the WSDOT Place Sheet utility assures compliance in regard to sheet sizes and consistent locations for use with the WSDOT Print Sheets utility.

Base references will be oriented to each sheet border. The sheet borders shall not be moved with this method.

The WSDOT Place Sheet utility automatically creates the correct saved views when the sheet borders are placed.

The WSDOT resources allow a base files to be referenced to a sheet border at the target drawing scale. Thus for a 1” = 50’ plot the reference attachment scale is 1:50 (Master:Ref). Likewise for a 1” = 10’ plot, the reference attachment scale is 1:10 (Master:Ref).

Saved Views in Sheet Files

A saved view should be created for each sheet location. The saved view name will be PLOT 1, PLOT 2, and so on. When the saved view is recalled, the entire sheet border should be displayed. If level filters are stored in the base file, the levels displayed by the saved view must match the levels that are to be plotted.

Reference Attachments to Sheets

The levels displayed by the reference attachment and the levels stored in the base plan's saved view (and/or filter) used in the creation of that attachment must be kept in-synch with one another.

(b) Single Sheet per File Method

Placing a single sheet per file is required when using ProjectWise. It may also be acceptable for non-ProjectWise projects at the discretion of the WSDOT design project office as long as WSDOT standard sheet border cells are used and data is placed in accordance to all other WSDOT standards. Appropriate file naming conventions shall be followed per the **Deliverables 4** section of this manual.

All applicable base files may be referenced to a plan type container file for the specific purpose of level display control for the sheet files. This requires nested reference use and settings should be set accordingly so that the container maintains level display control of the sheets regardless of the levels displayed in the base files. No data shall be stored in the container file.

In this method, container files and sheet files shall be created from an appropriate WSDOT USFt seed file (**PSE_Base.dgn** or **RW_USFoot.dgn**).

All file references shall be scaled 1:1 coincident-world.

Each sheet file will contain one sheet border cell scaled and oriented to the referenced base information. The base information shall not be moved with this method.

In ProjectWise, title block information will be updated within MicroStation using the key-in "Titleblock Modify". Outside of MicroStation, update title block information in the files Properties > Attributes tab.

When using the single sheet-per-file method outsided of ProjectWise, title block information is updated using the Edit Tags command on the sheet border cell.

Only those references displayed in the final contract plan set should be attached. Attachments that are not displayed should be detached.

There shall be no broken references in the final contract plan set. Any broken references should be repaired or detached prior to transmittal to the customer.

D7.04 Drafting Deliverables

Contract plan sets shall be prepared in accordance with the WSDOT *Plans Preparation Manual* and this document. The *Plans Preparation Manual* contains guidance and requirements for content of final plotted R/W and PS&E plan sets. This document contains guidance, appearance, and standards regarding the electronic version of the plan set and the requirements and attributes specific to the electronic version.

For deliverables to WSDOT Headquarters Right of Way, see **Deliverables 8** of this manual.

D7.04(1) General Requirements

Project-Level Resources

Potential project-level custom resources may include cell libraries, dgn libraries, color tables, and plotting resources. All project specific CAD resources must be stored in the **CAD_RSC** folder. These resources must also be documented in the CAD Plan Set Documentation spreadsheet Project-level resources by definition are non-standard which presents problems for downstream customers and exporting this data to other applications (such as InRoads); therefore their use should be minimized as much as possible.

ByLevel Symbology

In the WSDOT environment, only one feature type is drawn on any given level, typically. So, ***ByLevel*** is the standard attribute setting for color, weight and linestyle for all standard WSDOT features. ByLevel is activated automatically by the Place WSDOT Items menu for all standard levels, but is not activated for levels designated as user levels.

Project Filters

Users may create their own filters in specific DGN files or in the project-level DGNLIB. Project or user specific filters must be documented in the CAD Plan Set Documentation spreadsheet.

User Levels

The WSDOT work environment contains many levels designated as user levels that have no standard feature assigned to them. Since users aren't allowed to create new levels, these user levels have been provided for project-specific requirements that necessitate the drawing of elements of non-standard, project specific features. Because any items drawn on user levels is by definition nonstandard, they will not translate and export to other WSDOT applications (such as InRoads) as easily as information drawn to WSDOT standards. For this reason, the use of nonstandard information on user levels should be kept to a minimum and must be documented.

Each MicroStation level has a name and level number associated with it. Project specific custom level names and numbers must not conflict with those provided in the **WSDOT.dgnlib** file.

Referencing WSDOT Legacy 63-Level Data

If legacy MicroStation DGN files adhering to WSDOT's previous 63-level standards are to be used in conjunction with files in the current expanded level environment, the following guidelines should be observed:

- If the 63-level data is to be modified, it should be converted to the current standards.
- If the 63-level data is to be referenced read-only, it may be left in the 63-level configuration. At the time of attachment, a 63-level DGN file referenced to an expanded level file must have reference settings of Coincident World, True Scale off and attachment scale of 2:2 *not* 1:1. This must be done to maintain coordinate accuracy of the data between the two environments.

D7.04(2) Data Organization

The **_BaseFiles** folder and deliverable folders are intended to initially provide a workspace location for appropriate sheet files. When a workflow milestone is reached, a copy of the folder will be stored in the CAD folder and appended with the milestone in the *FolderName**_Milestone*** format. All applicable sheet files and all necessary, referenced base files will be copied into the new *FolderName**_Milestone*** folder.

The *FolderName**_Milestone*** folder will represent a complete, stand-alone, deliverable package of the indicated milestone.

Contract Plans (PS&E)

The **ContractPlans** folder is the working location for contract sheet files. At the time a milestone is completed, the *ContractPlans* folder will be copied to the same location and the copy will be appended with ***_Milestone*** (where ***Milestone*** is replaced by a short description of the milestone). The *ContractPlans_**Milestone*** folder represents the PS&E related contract plan set at a completed deliverable or milestone in an archive state and should not be changed in any way.

This folder may also be used for delivery to the design team of a complete package by a support group.

All required referenced base files will be copied to the *ContractPlans**_Milestone**_ProductMasters*** folder. All sheet files necessary for the deliverable will be stored in the *ContractPlans**_Milestone*** folder.

For projects that require more complex file sets, the alternate sub-folder structure shown in **Deliverables 3** is acceptable.

File naming conventions will comply with **Deliverables 4**.

Example milestones include ***_PSE30***[percent], ***_PSE60***, ***_PSE90***, ***_AdReady***.

For delivery of support group deliverables to the design team, similar milestone indicators are acceptable. For example, *ContractPlans_**Traffic***, and *ContractPlans_**Landscape***.

At delivery, the *ContractPlans**_Milestone*** folder will represent a complete, stand-alone, deliverable package of the indicated milestone.

Addendums

Addendum sheets are stored in the *ContractPlans**_AD[dendum]#*** folder. At completion of the addendum, a copy will be made of the *ContractPlans* working folder and the copy will be appended with ***_AD#*** (where ***#*** is the addendum number). This folder will contain only the files relating to the current addendum. This includes all required referenced base files and only specifically applicable/revised sheet files. All other files will be deleted.

All required referenced base files will be copied to the *ContractPlans**_Milestone**_ProductMasters*** folder. All sheet files necessary for the deliverable will be stored in the *ContractPlans**_Milestone*** folder.

File naming conventions will comply with **Deliverables 4**.

At delivery, the *ContractPlans_**AD#*** folder will represent a complete, stand-alone, deliverable package of the indicated addendum in an archive state and should not be changed in any way.

D7.04(3) Plans for Approval

The *PlansForApproval_**Milestone*** folder stores the intersection/interchange plan set for approval. At completion of the deliverable/milestone, a copy will be made of the *PlansForApproval* working folder and the copy will be appended with ***_Milestone*** (where ***Milestone*** is replaced by a short description of the milestone). This folder will contain only the files relating to the Plans for Approval.

All required referenced base files will be copied to the *PlansForApproval_**Milestone**_ProductMasters* folder. All sheet files necessary for the deliverable will be stored in the root *PlansForApproval_**Milestone*** folder.
Example Milestones include **_Submitted**, **_Approved**.

File naming conventions will comply with **Deliverables 4** of this manual.

At delivery, the *PlansForApproval_**Milestone*** folder will represent a complete, stand-alone, deliverable package of the indicated PFA milestone.

D7.04(4) Right of Way

This section refers to non-ProjectWise PS&E project efforts only. For ProjectWise projects and deliverables to WSDOT HQ Right of Way, see **Deliverables 8.**

The **RightOfWayPlans** folder stores design team generated Right of Way (R/W) plans. Survey generated R/W plans will be stored the Survey workspace. At completion of the deliverable milestone, a copy will be made of the **RightofWay** working folder and the copy will be appended with ***_Milestone*** (where ***Milestone*** is replaced by a short description of the milestone). This folder will contain only the files relating to the Right of Way plans in an archive state and should not be changed in any way.

All required referenced base files will be copied to the *RightOfWay_**Milestone**_ProductMasters* folder. All sheet files necessary for the deliverable will be stored in the root *RightOfWay_**Milestone*** folder.

File naming conventions will comply with **Deliverables 4**.

At delivery, the **RightOfWayPlans** folder will represent a complete, stand-alone, deliverable package of the indicated R/W plan set.

D7.04(5) CAD Documentation

CAD documentation is required on all deliverables. This documentation is available in the WSDOT standard CAE project structure under **CAD\ContractPlans** as a Microsoft Excel spreadsheet (*.xlsx) with six major components in separate worksheet tabs. The six components are:

- CAD Project Info

- CAD Project Journal
- CAD Project Level Resources
- Base Plan Documentation
- Contract Plans – Multiple Sheets per file
- Contract Plans – Single Sheet per file

Each worksheet noted in this section is also available in **Forms 6**.

At each deliverable milestone for each CAD product, a **_Doc** subfolder will be added to the deliverable folder. The CAD documentation spreadsheet will be stored in the **_Doc** folder. If individual forms are used, each one will be stored in this folder. All documentation files will be pre-pended with the project ID followed by an underscore (_). For example: **XL1234_CADProjectDoc.xlsx**.

CAD Project Information Sheet

The *CAD Project Information* worksheet tab contains general project and contact information. Entering information in this tab first will populate common fields in the other tabs.

The following items should be documented:

- Project ID
- Project title
- Network location
- Mainline designation(s) and mile post limits
- Design project office and contact information
- Sheet border information

CAD Project Journal

The *Project Journal* worksheet tab contains a log of events and decisions made at the CAD development level. This resource should include the name of the person making the entry, date, entry, and reference to associated or supporting files.

Project Level Resources Sheet

The *Project Level Custom Resources* worksheet tab contains the following items and should be documented:

- Project ID
- Project title
- Custom cell library information
- Custom linestyle information

- Custom or Project DGN library information
- Any other project custom resources including plot drivers, pen tables, color tables, etc.

Base Plan Documentation Sheet

At delivery a *Base Plan Documentation* worksheet tab will be filled out for each Base Plan and stored in the deliverables folder along with the data files. For additional Base Plans, copy the form and paste it in the same tab, below the existing form. If not using the Excel spreadsheet, additional forms for each Base Plan will be stored in the deliverables folder.

The following items should be documented for each base plan file:

- Drawing Scale
- Units of Measure (US Feet standard for WSDOT)
- Units of Resolution (1,000,000,000 standard for WSDOT)
- Datum information
- Raster Reference information including origins
- Referenced DGN files
- Filters/saved views to be used to call up sheet views

Contract Plan File Documentation Sheet

The Contract Plan File Documentation sheet is the fifth tab labeled *Contract Plans – Multi* in the **[*ID1234*]_CADProjectDoc.xlsx** spreadsheet. At delivery, the Contract Plan File Documentation spreadsheet will be filled out for each sheet file and stored in the deliverable folder along with the data files. For single sheets per DGN methodology, an additional tab is provided and labeled *Contract Plans - Single*.

The following items should be included in documentation for each sheet contained in a sheet file:

- Plan type(s) included
- Sheet ID
- Sheet saved views
- Referenced data files and raster images
- Custom filters

D7.05 Project Closure and Transition

The following requirements will apply after the supplier has prepared a complete MicroStation CAD package (such as PS&E contract plans) as described in this chapter by preparing all the appropriate electronic information.

D7.05(1) Project Cleanup

The deliverable contract plan set shall contain the base plans, sheet files, and documentation **(CAD\ContractPlans_Milestone** folder or similar for PFA and R/W), backups of resources used (**CAD_Rsc** folder) and any other supporting information necessary for the customer and/or future designers to understand and use the plan set in MicroStation. All data not necessary for production of the final plan set or of use to future designers or drafters should be removed from the deliverables folder.

D7.05(2) Preparation of PS&E Data within CAD-Folder

The following must be provided in the **CAD\ContractPlans** folder:

- Completed PS&E Plan set checklist
- **_Rsc** subfolder. This subfolder is to be created at project finalization. The resource files needed to recreate the contract plan set must be copied to this location. Resource files that should be copied are all cell libraries, linestyle resource files, DGN libraries (both WSDOT standard and project specific, font resource files and color tables.
- All Base files used in contract plan set
- Documentation as described in previous section

D7.05(3) Delivery of Final Package

General requirements for the transfer, review and acceptance of the data are detailed in **Deliverables 2**.

A complete contract plan set (PS&E, PFA, or R/W) package will be prepared as described in this chapter by compiling all the appropriate electronic information and notifying the customer that the project has been finalized.

Delivery will be accomplished by providing the customer access to the project folder if both the design team and customer share a network resource that allows them both to reference the same folder structure or ProjectWise if applicable. Access to the entire project folder is necessary when transferring interrelated survey, design and CAD data sets.

If a shared network location is not an option, the design team will provide the customer with a copy of the final data. This can be accomplished using any medium that can reliably contain the entire folder structure to be transferred (e.g., an e-mail, an FTP site, a compact disk, or a DVD).

D7.05(4) Data Archival

On projects where the supplier is internal to WSDOT, it is the supplier who is responsible for archival of the final electronic design data per the region's policy for archival of electronic project data. When an external supplier is providing data to WSDOT, it is the WSDOT customer who is responsible for archival of the final electronic data in accordance with the region's policy.

If no regional archival policy exists, the responsible party needs to ensure the data is appropriately archived for future reference.

D8.01 General
D8.02 WSDOT Resources
D8.03 Data Transfer, Review, and Acceptance
D8.04 Project Directory Structure
D8.05 File Naming Conventions
D8.06 Survey
D8.07 Roadway Design
D8.08 Drafting and Plans Preparation

D8.01 General

WSDOT uses Bentley ProjectWise to enable collaboration within specific projects. These projects are stored and developed in a WSDOT maintained data source within ProjectWise.

This section defines the ProjectWise specific standards and requirements for WSDOT projects associated with the EEDS Deliverable chapters.

Unless otherwise noted in this section, all standards and requirements indicated in **Deliverables 1** through **7** apply. Symbology requirements are not impacted by ProjectWise and shall be in accordance with this manual.

D8.02 WSDOT Resources

All WSDOT resource standards and requirements shall conform to **Deliverables 1** of this manual.

D8.03 Data Transfer, Review, and Acceptance

The ProjectWise storage area for documents is on a WSDOT Wide Area Network server; this location acts as a working area and transfer medium for all projects managed in ProjectWise.

All other requirements of data transfer, review, and acceptance shall conform to **Deliverables 2** of this manual.

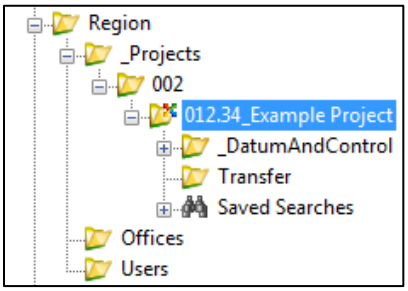
D8.04 Project Directory Structure

Project template resources are provided. These templates shall be used to ensure uniformity and access control conformance. Access control in ProjectWise allows groups to have specific read/read-write permissions to their portion of the project structure. Only localized ProjectWise Coordinators or HQ CAE ProjectWise Administrators will create projects.

Requests for new or modified projects shall be submitted to the local WSDOT ProjectWise Coordinator. Request a form from them or WSDOT HQ CAE Support (hqcaehelpdesk@wsdot.wa.gov, 360.709.8013).

All projects will be stored in the appropriate **WSDOT \Documents\[Region]_Projects\ SR#** folder.

Exhibit 8-1 Example Standard ProjectWise Project



Project Name and Description

"Project Name" shall use the following convention:

###.##_ProjectName

Where ###.## indicates the beginning milepost of the project footprint along the main state route with an abbreviated, CamelCase (no spaces and each word capitalized) project name.

"Project Description" shall use the whole or abbreviated project title from the Transportation Executive Information System (TEIS) or Program Management documentation is preferred to create consistency between systems.

The project folder description will be in this format:

Project Name, MP Begin –MP End, WIN #, PIN #

Description
Example Project, MP 12.34-15.67,WIN A00200A, PIN 100200A

Each project shall include a **_DatumAndControl** folder structure and **Transfer** folder.

_DatumAndControl

This folder shall be maintained in all projects according to **Deliverables 3** of this manual.

Transfer

This folder acts as a file collaboration location where all groups assigned to the project have Read/Write access to all contents. This is intended specifically for working documents that will be moved to the appropriate group structure when collaboration is complete.

Group Folders

The WSDOT ProjectWise project directory structure is based on group activities with specific access control and should only include those group folder structures applicable to the project. Each group folder contains activities done by a representative discipline.

For example, the Utilities folder structure includes work done by the appropriate Utilities Office/group. It includes specific access control set for the Utilities Office.

Group folders include pre-populated structures for Design, Construction, and other discipline groups. The root contents of these preset folders should not be revised with the exception of adding folders for content not already accounted for. There are additional generic folders designed to be added and renamed for groups not yet predefined.

Exhibit 8-2 Standard ProjectWise Design Folder Structure (ordered by name)

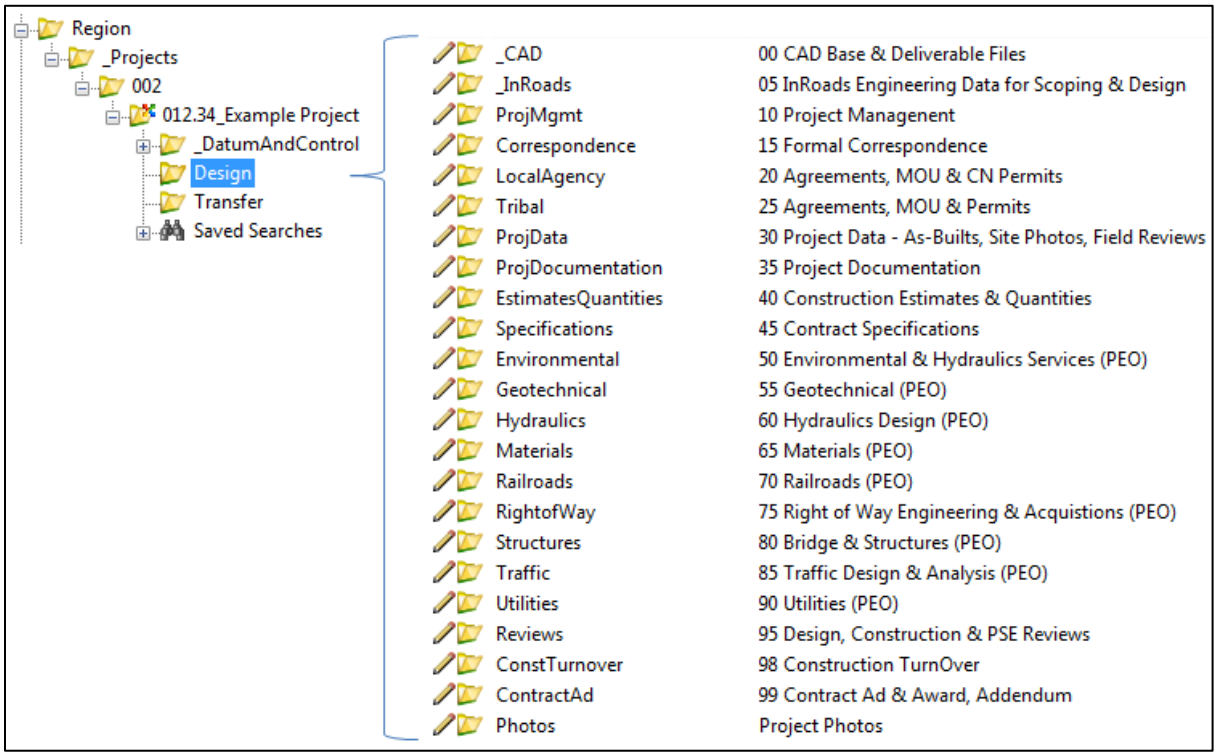
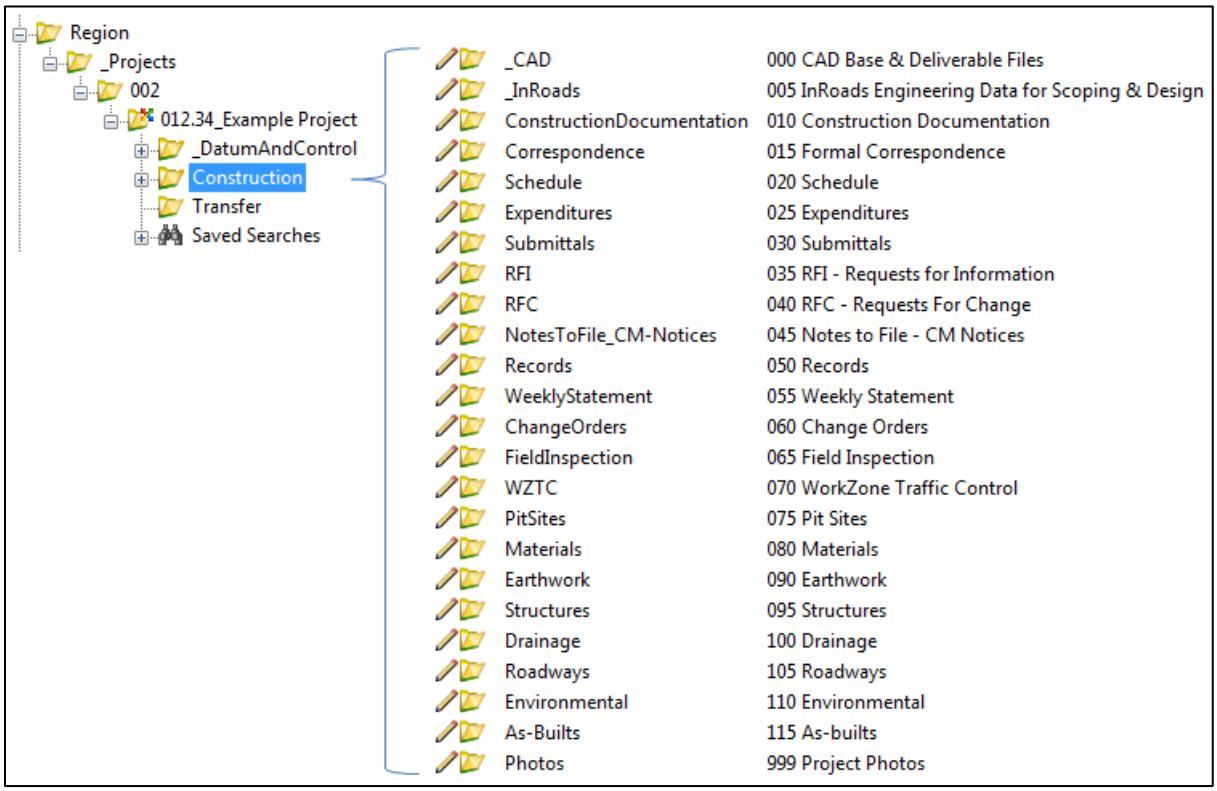
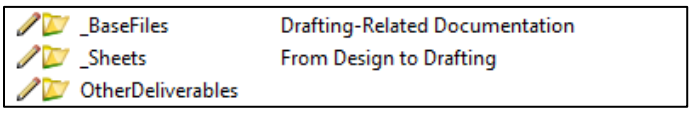


Exhibit 8-3 Standard ProjectWise Construction Folder Structure (ordered by name)



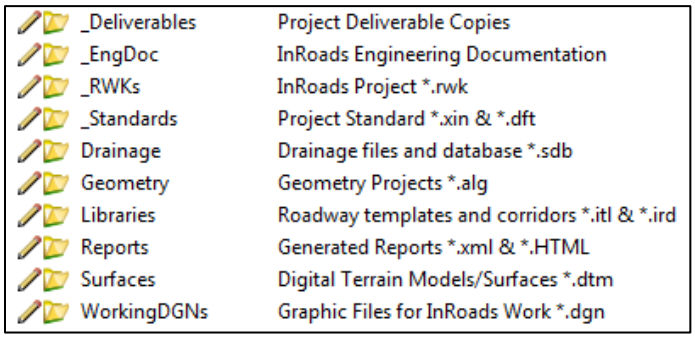
CAD work shall be stored in the **_CAD** folder structure per **D3.05** of this manual. Sheets will be managed in ProjectWise per **D8.08** of this manual.

Exhibit 8-4 Standard ProjectWise Group _CAD Folder Structure



All InRoads engineering data files developed by a group shall be stored in that group's **_InRoads** subdirectory structure. Similar to EngDataConst and EngDataDesign in D3.06 and D3.07, this structure contains all working and deliverable data files.

Exhibit 8-5 Standard ProjectWise Group _InRoads Folder Structure



Exceptions should be submitted to WSDOT CAE Support for inclusion in the preset structure.

To optimize the number of folders associated with the project structure, group folders such as Construction, should be added only as that group activity is initiated in the project. To request that a group folder be added to a project, contact the Region ProjectWise Coordinator or WSDOT CAE Support.

User access control change requests to folders or documents shall be submitted to the local ProjectWise Coordinator.

D8.05 File Naming Conventions

ProjectWise uses the **File Name**, document **Name**, and **Description** to identify files stored in the WSDOT data source. ProjectWise also uses **Project Properties** and document **Attributes** for search functionality and MicroStation title block information.

The **File Name** and document **Name** shall be identical.

All applicable **Project Properties** and document **Attributes** shall be entered for each document.

File names shall comply with **Deliverables 4** of this manual.

D8.06 Survey

All survey files shall be stored in the ProjectWise project directory structure according to **D8.04**.

All other WSDOT survey standards and requirements shall comply with **Deliverables 5** of this manual.

D8.07 Roadway Design

All roadway design files shall be stored in the ProjectWise project directory structure according to **D8.04**.

All other WSDOT roadway design standards and requirements shall conform to **Deliverables 6** of this manual.

D8.08 Drafting and Plans Preparation

D8.08(1) PS&E

All drafting and plans preparation files shall be stored in the ProjectWise project directory structure per **D8.04**.

The “Single Sheet per File method” defined in **Deliverables 7.03(2)(b)** shall be used in ProjectWise.

All applicable **Project Properties** and document **Attributes** shall be entered for each document.

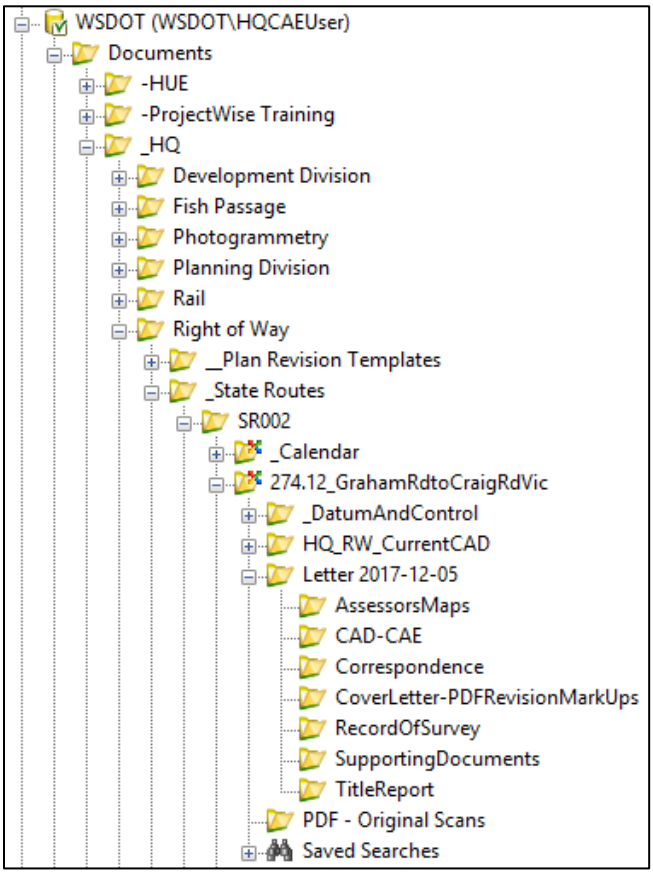
The use of an intermediate "container" file for each plan type sheet set to manage level display schema is acceptable. No data shall be placed in the container.

D8.08(2) Right of Way

Deliverables to WSDOT HQ Right of Way shall be provided in ProjectWise. See *Plans Preparation Manual Division 1* for transmittal requirements.

The ProjectWise Right of Way structure is corridor based

Exhibit 8-6 Standard ProjectWise Right of Way Folder Structure



Revision transmittals shall be contained in a *Letter yyyy-mm-dd* folder structure specific to and indicating the date of the submittal. The Letter structure may be copied from:

WSDOT\Documents_HQ\Right of Way_Plan Revision Templates\Letter yyyy-mm-dd

Transmittal content shall be per Plans Preparation Manual (PPM) Division 1 and stored in the appropriate *Letter yyyy-mm-dd* subfolder described below.

AssessorsMaps

This folder contains assessor's maps and associated specific supporting documentation.

CAD-CAE

All associated CAD and engineering data (such as InRoads *.ALG) files shall be stored in the CAD-CAE subfolder. CAD files should reference current Right of Way CAD base and sheet files stored in the following ProjectWise location when available:

WSDOT\Documents_HQ\Right of Way_State Routes\SRxxx\yyy.yy_ProjectName\HQ_RW_CurrentCAD

Project revision CAD files should only have revision information.

In the event that the current CAD base and sheet files are not available, or they are inaccurate, or difficult to read, new base and/or sheets may be generated. Coordinate with the HQ Right of Way Plans office for guidance.

All deliverable DGN files shall comply to WSDOT standards per **Deliverables 4** and **Symbology 4** of this manual.

The "Single Sheet per File method" defined in **Deliverables 7.03(2)(b)** shall be used in ProjectWise.

Correspondence

This folder contains associated correspondence via email messages, letters, memos, etc. that do not fall under other submittal folder topics.

CoverLetter-PDFRevisionMarkups

The transmittal cover letter content and marked up PDF plan sheets are stored in this folder. No other documents are accepted in this folder.

RecordOfSurvey

All associated Records of Survey are stored in this folder.

SupportingDocuments

Any supporting documentation that does not specifically apply to other submittal folder topics are stored in this folder.

TitleReport

Title Reports for all new parcels per PPM Division 1 will be stored in this folder. Supplemental Title Reports are acceptable if the original transaction has been recently completed. A new parcel number will be needed for these parcels.

Forms

Forms 1 – General
Forms 2 – Survey
Forms 3 – Project Journal Template
Forms 4 – InRoads
Forms 5 – CAD Documentation
Forms 6 – ProjectWise

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F1.01 General

F1.01 General

These forms are used to facilitate the transfer of information in a standard format.

A completed form will inform the receiving party what information is requested, how it was collected, what is contained and how is assembled.

F2.01 Survey Request Form
F2.02 InRoads Location Survey Checklist

F2.01 Survey Crew Request Form

Print Form | Print Blank Form | New Form | Duplicate Form | Page 2 | List View

Survey Request (DOT Form 355-001 EF)

EF Version 02/10/2012

PE/Manager	Org. Number	Date Requested	Date Needed
Team Leader/Contact Name	Contact Phone	Traffic Control Required ☐ Yes ☐ No	Traffic Control Plan #

Work Order	Group	Work Op	Ctrl. Section	Project Name

State Route	Project Limits MP to MP	Has a Project Folder Been Created? ☐ Yes ☐ No Location:

Type of Survey

☐ **Location**	☐ **Construction**	☐ **Alignment**	
☐ General Topo	☐ Construction Layout	☐ Right of Way Limits	☐ Ferry Terminal
☐ Control Network	☐ Restaking	☐ Sundry Site Plan	☐ Utilities
☐ Alignment	☐ As-Built	☐ Land Plat	☐ Other, explain below

Purpose/Scope of Survey Request

Use supplemental page when text exceeds this limit

See Supplement for Additional **Purpose/Scope of Survey Request** ☐ Yes ☒ No

Click Here to Go to Supplemental Sheet

Datum: Horizontal Datum _____

Explain Vertical Datum _____

Project Combined Factor

CF: _____

DELTA Shift

N _____ E _____

Project's Survey Document Location

Project Control File Location

Project Datum Calculation Report Location

Is Report Attached ☐ Yes ☐ No

Research on Hand

☐ Existing R/W Plans	☐ Utility Plans	☐ Records of Surveys	☐ Other
☐ Previous Construction Alignment Plans	☐ Assessor's Map	☐ Monumentation Maps	(See Attached)
☐ Rail Road Plans	☐ Report of Survey Marks	☐ Bench Mark Locations	

DOT Form 355-001 EF
Revised 02/2012

Top of Form

Print Form | Print Blank Form | New Form | Duplicate Form | Page 2 | List View 0001

Survey Request (DOT Form 355-001 EF)

EF Version 05/13/2011

PE/Manager	Org. Number	Date Requested	Date Needed
Team Leader/Contact Name	Contact Phone	Traffic Control Required ☐ Yes ☐ No	Traffic Control Plan #

Work Order	Group	Work Op	Ctrl. Section	Project Name

State Route	Project Limits MP to MP	Has a Project Folder Been Created? ☐ Yes ☐ No Location:

Type of Survey

☐ **Location**	☐ **Construction**	☐ **Alignment**	
☐ General Topo	☐ Construction Layout	☐ Right of Way Limits	☐ Ferry Terminal
☐ Control Network	☐ Restaking	☐ Sundry Site Plan	☐ Utilities
☐ Alignment	☐ As-Built	☐ Land Plat	☐ Other, explain below

Purpose/Scope of Survey Request

DO NOT FILL BEYOND this area, click here to go To Purpose/Scope of Survey Request Supplemental

Datum: Horizontal Datum _____

Explain Vertical Datum _____

Project Combined Factor

CF: _____

DELTA Shift

N _____ E _____

Project's Survey Document Location

Project Control File Location

Project Datum Calculation Report Location | Is Report Attached ☐ Yes ☐ No

Research on Hand

☐ Existing R/W Plans	☐ Utility Plans	☐ Records of Surveys	☐ Other (See Attached)
☐ Previous Construction Alignment Plans	☐ Assessor's Map	☐ Monumentation Maps	
☐ Rail Road Plans	☐ Report of Survey Marks	☐ Bench Mark Locations	

DOT Form 355-001 EF 05/2011

Survey Crew *(to be filled out by survey crew only)*

Survey Crew	Org. Number/Company	Date Received	Date Completed

Contact Phone

☐ Existing Control On Site
☐ Additional Control Required

Equipment Used:
☐ RTK-GPS ☐ Compass/Pocket Tape
☐ Static/Fast Static ☐ Digital Level
☐ Total Station ☐ Auto Level
☐ Scanner ☐ Other, explain below _____

Control Network	Survey Files Location (CD, floppy disk, or network/web location)	Electronic Fieldbook (File Name)

Non Standard Field Codes Used

ALPHA Code	Description

See Supplement for Additional Purpose/Scope of Survey Request ☐ Yes ☒ No

Use supplemental page when text exceeds this limit

Click Here to Go to Supplemental Sheet

Survey Party Chief Comments:

Use supplemental page when text exceeds this limit

See Supplement for Additional Purpose/Scope of Survey Request ☐ Yes ☒ No

Click Here to Go to Supplemental Sheet

Name, Printed	Signature	Date Signed

DOT Form 355-001 EF
Revised 02/2012

Top of Form

F2.02 InRoads Location Survey Checklist

Washington State Department of Transportation

InRoads Survey Checklist

Project Name			
Location			
Region		Date	
Survey Party Chief		Checked By	
Design Team Leader	Project Engineer	Checked By	

Project Items	Folder Location	√	Initials
Processed Data in Fieldbooks (*.fwd)		☐	
MicroStation Graphics File		☐	
Surface File		☐	
Geometry Project			
Survey Request Form w/ Surveyor's portion complete		☐	
InRoads Project Spreadsheet		☐	
Project Control and Monumentation Documentation		☐	
Project Datum Documents		☐	
Control Traverse Documentation		☐	
Raw Data Files		☐	
Delivery Method			

☐	Network Location: _____		
☐	CD/DVD	☐	Other (Specify): _____

Comments

Survey Signature

F3.01 Project Journal Template

[ProjectID] [Project SR #, MP ## to ##] ***Project Journal***
[Project Name]
[Designer Name, Contact #]

Date	Journal Entry	Reference Files

F4.01 InRoads Project Spreadsheet
Project Information Tab
Geometry Tab
Surfaces Tab
Survey Tab
Roadway Design Tab
Earthwork Tab
F4.02 InRoads Designer Deliverables Checklist

F4.01 InRoads Project Spreadsheet

Project Information Tab

Project ID

General Project and Contact Information

MicroStation Version		InRoads Version	
Project Title			
State Route		Org Code	
Mile Post Limits	From: To:	Project Contact	
Project Create Date			
Project Description/Scope			
Design Team Leader			
Chief Inspector			
Primary Designer			
Primary Inspector			
Contact Phone Number			

Project Location:

Notes:

Geometry Tab

[ProjID] [ProjName]

Project Geometry Documentation

Geometry Project:
ALG Description:
ALG File Location:
Revised:
Revised By:

Horizontal Alignmen	HA Descriptior	HA Style	Vertical Alignmen	Vertical Descriptio	Vertical Style

Surfaces Tab

[ProjID] [ProjName]

Surface Documentation

Surface Name	Description	Preference	Revised	Revised By

Survey Tab

[ProjID] [ProjName]

Survey Fielbook Documentation

Fieldbook Name:
Survey Units:

Survey Stations

Roadway Design Tab

[ProjID] [ProjName]

Roadway Design Documentation

IRD Name:

Corrido	Horizontal Alignmen	Vertical Alignmen	Revised	Revised By	Template Librar	Template

Earthwork Tab

[ProjID] [ProjName]

Earthwork Documentation

Cross Section Set Name:
Alignment Name:
Correct for Curvature =

Revised	Revised By	Surface Name	Location

F4.02 InRoads Designer Deliverables Checklist

WSDOT Department of Transportation **InRoads Design Deliverables Checklist**	Project Name	
	Location	
	Region	Date

Design Team Leader	Project Engineer	Checked By

Project Items	Folder Location	√	Initials
InRoads Project Spreadsheet		☐	
Journal		☐	
Configuration Files		☐	
Geometry Files		☐	
Surfaces		☐	
Template Libraries		☐	
Roadway Libraries		☐	
Reports		☐	
End Area Volumes		☐	
Cross Section Set File		☐	
DGN Files		☐	
Project Listing RWK		☐	

Comments

Signature

F5.01 CAD Documentation
CAD Project Info tab
CAD Project Journal tab
CAD Project Level Resources tab
Base Plan Documentation tab
Contract Plans – Multiple Sheets per File tab

F5.01 CAD Documentation

The [*projname*]_CADProjectDoc.xlsx consists of five tabs as follows:

CAD Project Info tab

[ProjID] [ProjectName]

CAD Project Information

General Project and Contact Information

General Project Information			Design/Construction Team Information	
Primary State Route:			Organization Number:	
Date of Archive/hand-off:			Design Team Leader/Chief Inspector Name:	
	From:	To:		
Mile Post Limits:			Primary Drafter Name:	
Project Units:			Contact Number:	
Project Description/Scope:				

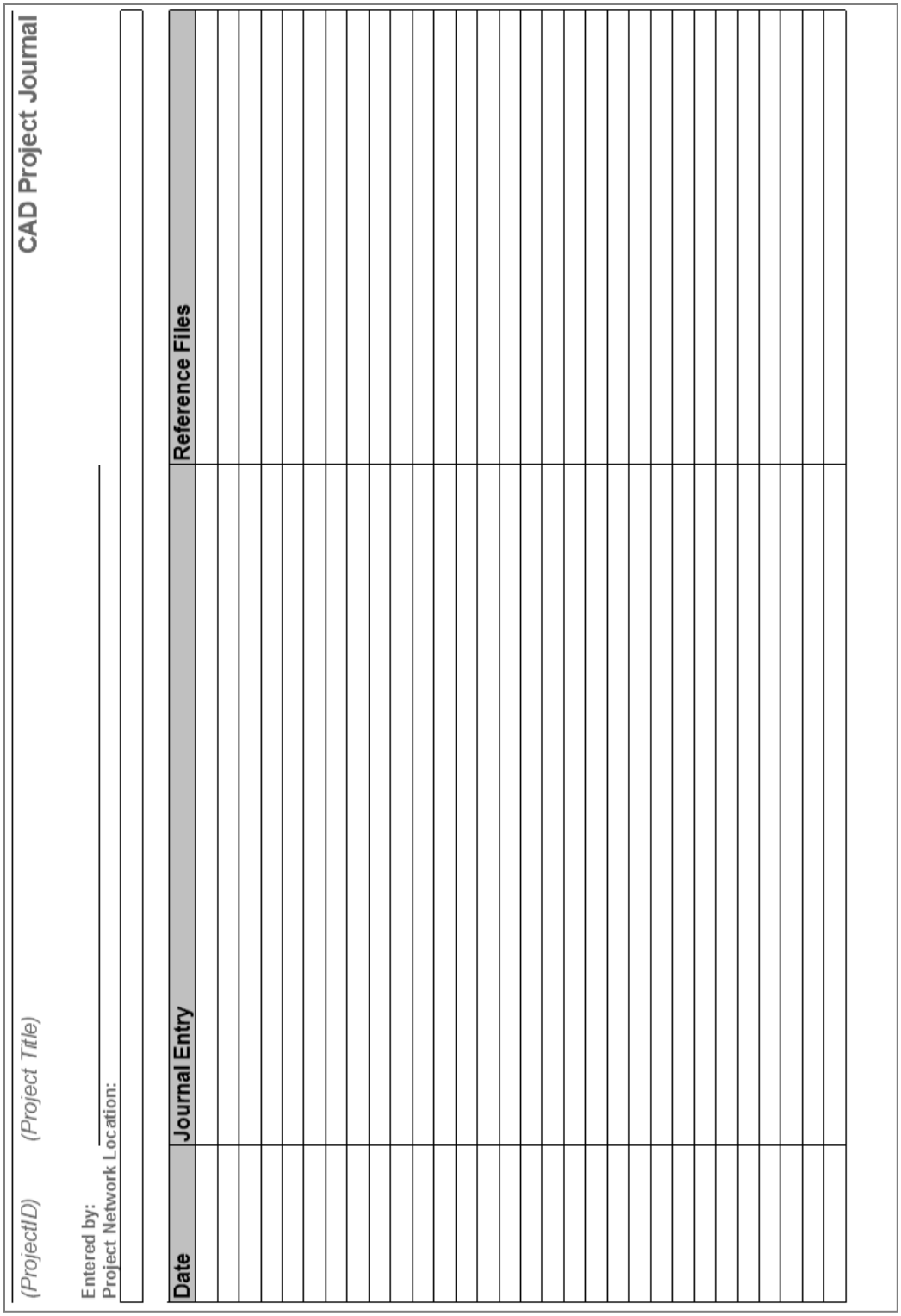
Location of Supporting Files

Supporting files should be backed up on CD and/or a network resource accessible by the customer and CAE support.

CD or DVD Location and Label:		OR	Network Path to Project :	

Project Sub-folder:	File Name:	Description:

CAD Project Journal tab

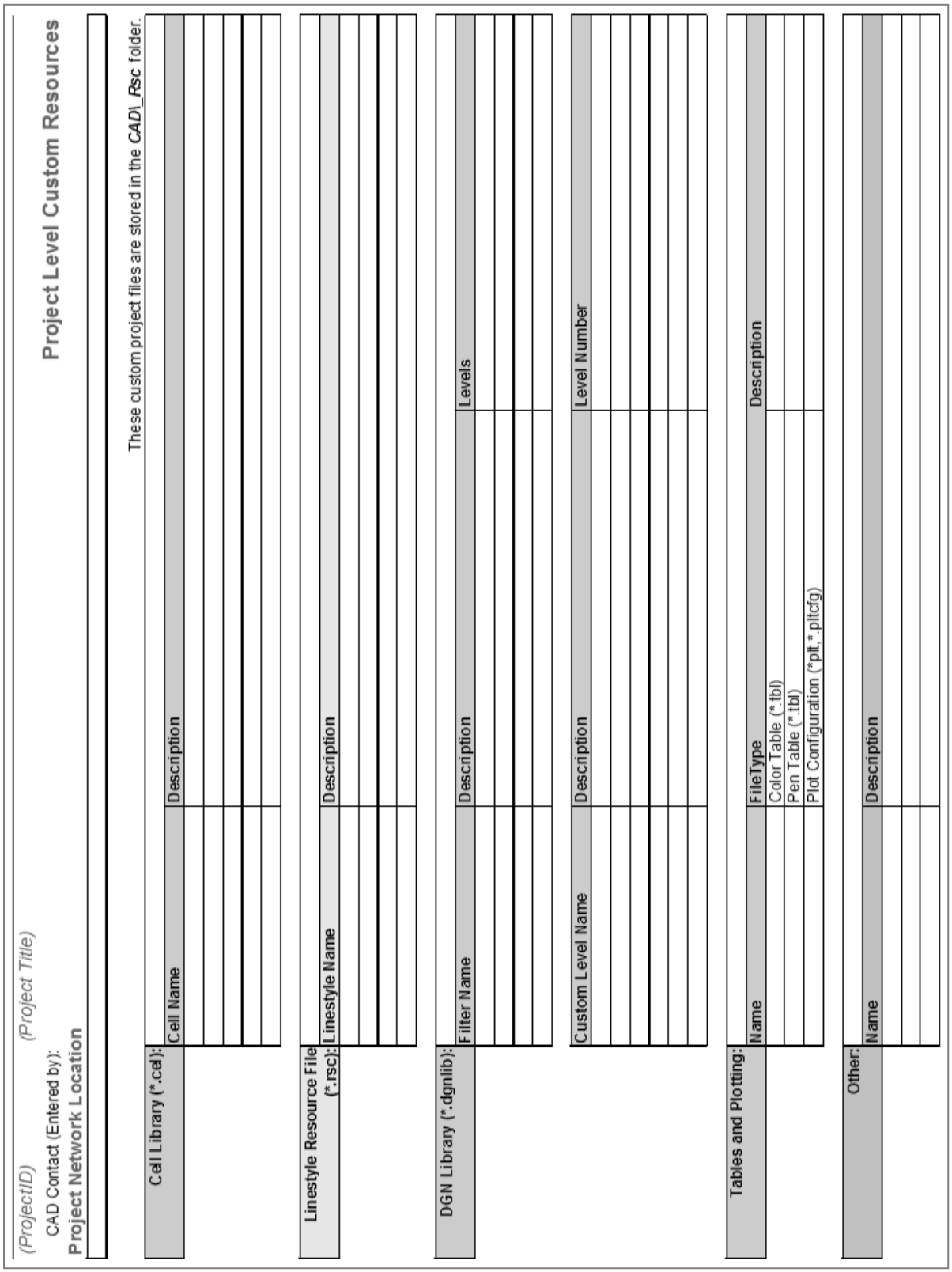


(ProjectID) *(Project Title)* **CAD Project Journal**

Entered by:
Project Network Location: _____

Date	**Journal Entry**	**Reference Files**

CAD Project Level Resources tab



(ProjectID) (Project Title)

CAD Contact (Entered by):

Project Network Location

Project Level Custom Resources

These custom project files are stored in the *CAD_Rsc* folder.

Cell Library (*.cel):

Cell Name	Description

Linestyle Resource File (*.rsc):

Linestyle Name	Description

DGN Library (*.dgnlib):

Filter Name	Description	Levels

Custom Level Name	Description	Level Number

Tables and Plotting:

Name	FileType	Description
	Color Table (*.tbl)	
	Pen Table (*.tbl)	
	Plot Configuration (*plt,*.pltcfg)	

Other:

Name	Description

Base Plan Documentation tab

Base Plan File Documentation

(ProjectID) (Project Title)

Milestone Milestone

Effective Date of Milestone Date

Project Network Location

FILE NAME (*.dgn)

GENERAL

Description	Drawing/ Annotation Scale	Units of Measure	Units of Resolution	Datum (SPC, PD, Assumed)	Combined Factor (CF)

RASTER REFEERENCES

File Name	Path	Description	World File Available (same path)	Rotation	Lower Left Coordinate (X,Y)	Upper Right Coordinate (X,Y)

DGN REFEERENCES

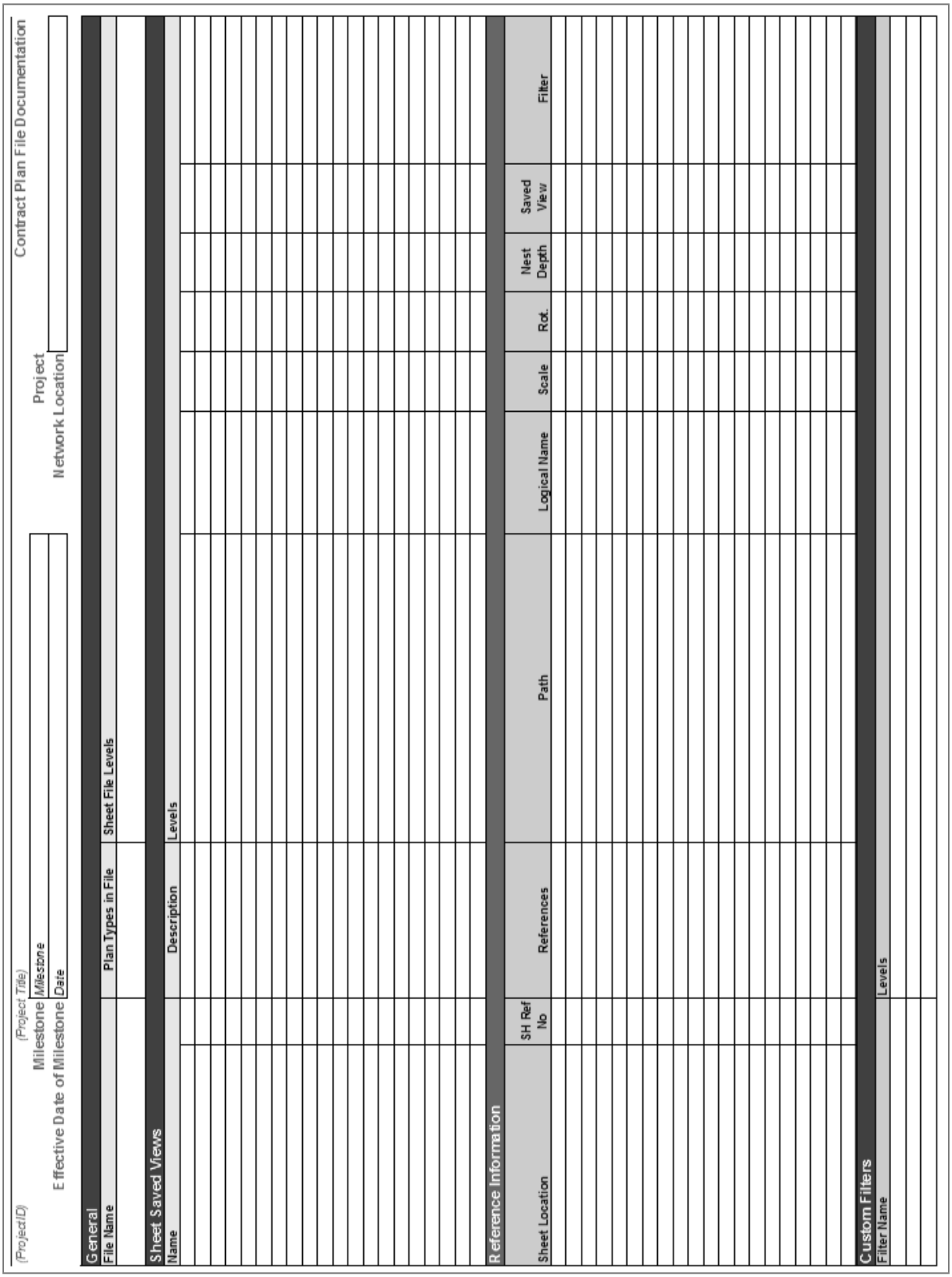
File Name	Path	Description	Rot.	Scale	Logical Name	Nest Depth	Method

CUSTOM FILTERS

Name	Custom Filter Levels

Contract Plans – Multiple Sheets per File tab

For projects set up with a single sheet per file, an alternative ***Contract Plans – Single*** tab is available.



(Project ID) (Project Title) Contract Plan File Documentation

Milestone Milestone

Effective Date of Milestone Date

Project Network Location

General

File Name	Plan Types in File	Sheet File Levels

Sheet Saved Views

Name	Description	Levels

Reference Information

Sheet Location	SH Ref No	References	Path	Logical Name	Scale	Rot.	Nest Depth	Saved View	Filter

Custom Filters

Filter Name	Levels

F6.01 ProjectWise Project Folder Structure Request Form

F6.01 ProjectWise Project Folder Structure Request Form

This form is available from WSDOT HQ CAE Support (hqcaehelpdesk@wsdot.wa.gov, 360.709.8013).

Requestor Info			
Name:			
Contact Number:			
Region:		Org. Number:	
Office:			

Project Status	
Create a new Project?	
Modifying or adding to an existing project?	

Project Properties			
Project Name			
Project Title Line 1			
Project Title Line 2			
Project Title Line 3			
Scoping Number		Win Number	
Design Number		Pin Number 1	
Contract Number		Pin Number 2	
Federal Aid Number 1		Pin Number 3	
Federal Aid Number 2		Pin Number 4	
Federal Aid Number 3		Pin Number 5	
Region			
County		SR Number (090)	
Section(s) (1-36)		Mile Post Begin	
Township(s) (T 01 N - T 41 N)		Mile Post End	
Range(S) (R 16 W - R 47 E)			
Regional Administrator			

Groups to include	✓	Add these user lists to access control for each group (default will be requestor's org number)
Design		
Survey		
Utilities		
Hydraulics		
Construction		
Other		
Other		
Other		

Symbology

Symbology 1 – Requirements
Symbology 2 – Data Collection
Symbology 3 – Design Standards
Symbology 4 – Right of Way Standards
Symbology 5 – PS&E Standards

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S1.01 General
S1.02 Category Codes

S1.01 General

WSDOT deliverables are created using established survey, design, and drafting standards and requirements set by the State Design Office. The symbols and conventions listed in this section are intended to comprise all of the standard symbols necessary for the preparation of deliverables for WSDOT. These standards apply to Computer Aided Engineering (CAE) applications and equipment as well as manually drafted plans. Adherence to these standards is essential to ensure the uniformity of plans produced throughout and for the WSDOT.

Custom attributes may be necessary in some cases, but make every effort to use the standard symbols listed in this documentation in order to maintain the consistency of deliverables that are developed for state projects. If you think custom symbols are needed, confirm that need and their use with your regional CAE support coordinator or the regional Plans Office.

Any questions regarding the use of CAE application to accomplish WSDOT standards should first be forwarded to your regional CAE support coordinator and/or Headquarters CAE in the GeoMetrix Office. Questions about the standards themselves or project specific plan graphics that not covered by the standards should be forwarded to the WSDOT Plan Reviewer assigned to your project.

Standard Symbols and Conventions

The various geometric and design features commonly used in plans have been assigned to the different codes, features, and levels. These symbols and conventions are available to the operator for review or download from the WSDOT CAE web page, in the "Resources" category (www.wsdot.wa.gov/Design/CAE).

These standards must be followed in the production of WSDOT deliverables, whether by internal WSDOT personnel or by external WSDOT consultants.

Text Fonts and Sizes

The text fonts and sizes assigned to WSDOT CAD elements are set for readability, clarity, and consistency. The text font sizes and styles called out in the standard symbols and conventions listing maintain readability through the final Ad and Award printing process and after numerous copies.

The text sizes indicated in this manual represent standards that will produce readable plans and should be considered the minimum accepted sizes. If a plan sheet becomes too crowded to place text at the minimum text size, a smaller text may be used at the discretion of your WSDOT Plan Review representative.

S1.02 Category Codes

Categories are divided into major discipline or function or items. Sub Categories are divided into the different section of the larger category. The element name is then added to create a specific feature core or level name.

Catagory: DR for drainage, RW for Right of Way, etc

Sub Catagory: PP for pipes and Ditches, ST for structures, etc.

Element name: Catch Basin, etc.

Example: Parent_Child_Element = DR_ST_CatchBasin

* Denotes that a level is for design use only, not a level used in the production of standard deliverable plans.

Description	Catagory	Sub Catagory	Combined
Alignment	**AL**		
Highway		HW	AL_HW_
Right of Way		RW	AL_RW_
Structure Alignments		SA	AL_SA_
Break Lines & Ground Shots	**BL**		
Lines		LN	BL_LN_
Points		PT	BL_PT_
***Design**	**DS**		
General Design Codes		GE	DS_GE_
Drainage	**DR**		
Pipes and Ditches		PP	DR_PP_
Structures		ST	DR_ST_
Environmental	**EV**		
Erosion Control		EC	EV_EC_
Environmental Permits		EP	EV_EP_
*Hec Ras		HR	EV_HR_
Irrigation		IR	EV_IR_
Landscape		LS	EV_LS_
Wetlands		WL	EV_WL_

Description	Catagory	Sub Catagory	Combined
Photo, Monuments and Control	**PM**		
Monuments and Control		MN	PM_MN_
Photo Control		PH	PM_PH_
Photogrammetry	**PH**		
Raster Images		RI	PH_RI_
*Specialty		SP	PH_SP_
Right of Way	**RW**		
RW Boundaries		BD	RW_BD_
Easements & Permits		ES	RW_ES_
Government Boundaries		GB	RW_GB_
Parcels		PA	RW_PA_
Section Information		SC	RW_SC_
Roadway	**RD**		
Berms		BM	RD_BM_
Barriers		BR	RD_BR_
Curb, Gutter, Sidewalk		CG	RD_CG_
Edges		ED	RD_ED_
Miscellaneous		MC	RD_MC_
Markings		MK	RD_MK_
Sheet	**SH**		
Detail Sheets		DE	SH_DE_
Drainage Profiles		DP	SH_DP_
Details Cell		DT	SH_DT_
Environmental Items		EI	SH_EI_
General Sheet Items		GI	SH_GI_
Permit Items		PI	SH_PI_
Plan Sheet Right of Way		PR	SH_PR_
Plan Sheets PSE		PS	SH_PS_
Roadway Profiles		RP	SH_RP_
Roadway Section		RS	SH_RS_

Description	Catagory	Sub Catagory	Combined
Traffic items		TI	SH_TI_
Vicinity Maps		VM	SH_VM_
Structures	**ST**		
Bridges		BG	ST_BG_
Walls		WA	ST_WA_
Topography	**TP**	**TP**	
Contours		CN	TP_CN_
Manmade		MM	TP_MM_
Natural		NT	TP_NT_
Traffic	**TR**		
Illumination		IL	TR_IL_
Signals		SG	TR_SG_
Signing		SN	TR_SN_
Traffic Systems		TS	TR_TS_
Work Zone		WZ	TR_WZ_
Utilities	**UT**		
Communication		CM	UT_CM_
Gas		GS	UT_GS_
General Utility Items		GU	UT_GU_
Multiple Types		MT	UT_MT_
Power		PW	UT_PW_
Sanitary Sewer		SS	UT_SS_
Water		WT	UT_WT_
***X Section**	**XS**		
*Surface		SF	XS_SF_

S2.01 General
S2.02 Survey using Electronic Fieldbook
S2.03 Alphabetical Listing of Field Codes

S2.01 General

This section describes the symbology used to identify features by survey crews, photogrammetry and other collection methods.

Survey crews collect field observations and assign a standard field codes to each point observed. The data is processed and the final results are delivered per requirements.

Field reference listings by code and name are available on the CAE website.

S2.02 Survey Using Electronic Fieldbook

Electronic fieldbooks will use the current WSDOT standard field codes to identify field observed points. The use of these field codes will ensure the data can be imported design software with proper symbology. This also ensures that the field collected points are identified the same way across all WSDOT projects.

S2.03 Alphabetical Listing of Field Codes

The alphabetical listing below provides a complete list of standard survey elements by field code. The name of the element is prepended with a Category code and Sub-Category code to help organize symbology.

Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
ABRM	3D	Line	RD	BM	AsphaltBerm	*Asphalt Berm*
AC	3D	Line	RD	CG	CurbAsphaltFace	*Curb Asphalt Face*
AD	3D	Line	DR	PP	AsphaltDitch	*Asphalt Ditch*
ADVWS	2D	Point	TR	TS	AdvancedWarningSign	*Advanced Warning Sign*
AGUTSTR	2D	Line	UT	GU	AboveGndUtilityStructure	*Above Ground Utility Structure*
AI	3D	Point	DR	ST	AreaInlet	*Area Inlet*
APB	3D	Line	BL	LN	AsphaltPvmntBreak	*Asphalt Pvmnt Break*
APP	3D	Line	BL	LN	PartiallyObscureArea	*Partially Obscure Area*
ARUC	2D	Line	TP	MM	AreaUnderConstr	*Area Under Construction*
ASMF	3D	Point	RD	MK	AerialSurvIncMarkFull	*Aerial Survey Inc Mark Full*
ASMH	3D	Point	RD	MK	AerialSurvIncMarkHalf	*Aerial Survey Inc Mark Half*
ATMCC	2D	Point	TR	TS	ATMControlCabinet	*ATM Control Cabinet*
BA	2D	Line	RD	BR	BarrierCenter	*Barrier Center*
BARRC	2D	Line	TR	SN	Barricade	*Barricade*
BAS	3D	Line	ST	BG	BridgeApproachSlab	*Bridge Approach Slab*
BAT	2D	Line	RD	BR	BarrierTop	*Barrier Top*
BB	3D	Line	BL	LN	BankBottom	*Bank Bottom*
BBMP	2D	Point	TR	SN	SignBBoardMultiPost	*Sign Billboard Multi Post*
BBSP	2D	Point	TR	SN	SignBBoardSnglPost	*Sign Billboard Single Post*
BCUL	2D	Line	DR	ST	BoxCulvert	*Box Culvert*
BENCH	2D	Line	TP	MM	Bench	*Bench*
BF	3D	Line	RD	BR	BarrierFace	*Barrier Face*
BH	2D	Point	TP	MM	BoreHoleorDrillHole	*Bore Hole or Drill Hole*
BIKE	2D	Point	RD	MK	BikeSymb	*Bike Symbol*
BIKEA	2D	Point	RD	MK	BikeSymbArrow	*Bike Symbol Arrow*
BIKEE	3D	Line	RD	ED	BikePathEdge	*Bike Path Edge*
BIOF	3D	Line	EV	WL	BiofiltrationSwale	*Biofiltration Swale*
BKL	3D	Line	BL	LN	BreaklineGeneric	*Breakline Generic*
BL	3D	Line	RD	MK	LineBarrier	*Line Barrier*
BLDNC	2D	Line	RD	MK	LineBarrierDNC	*Line Barrier DNC*
BM	2D	Point	PM	MN	BenchMark	*Bench Mark*
BNKS	3D	Line	BL	LN	BanksLineforPlotting	*Banks Line for Plotting*
BOL	2D	Point	RD	BR	Bollard	*Bollard*
BPS	3D	Line	ST	BG	BackofPvmntSeat	*Back of Pavement Seat*
BRAI	2D	Point	DR	ST	AreaInletBridge	*Area Inlet Bridge*
BRAIL	2D	Line	ST	BG	BridgeRail	*Bridge Rail*

S2.03 Alphabetical Listing of Field Codes

The alphabetical listing below provides a complete list of standard survey elements by field code. The name of the element is prepended with a Category code and Sub-Category code to help organize symbology.

Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
BRBF	2D	Line	RD	BR	BarrierFaceBridge	*Barrier Face Bridge*
BRBT	2D	Line	RD	BR	BarrierTopBridge	*Barrier Top Bridge*
BRCB	2D	Point	DR	ST	CatchBasinBridge	*Catch Basin Bridge*
BRCBT	2D	Line	RD	CG	CurbTopBridge	*Curb Top Bridge*
BRCF	2D	Line	RD	CG	CurbFaceBridge	*Curb Face Bridge*
BRCFTI	2D	Line	RD	CG	CurbTrafficIsFaceBridge	*Curb Traffic Island Face Bridge*
BRCL	2D	Line	ST	BG	BridgeCenterLine	*Bridge Center Line*
BRD	2D	Point	DR	ST	DrainBridge	*Drain Bridge*
BRDKL	2D	Line	ST	BG	BridgeDeckLimits	*Bridge Deck Limits*
BRDKS	2D	Point	ST	BG	BridgeDeckSelective	*Bridge Deck Selective*
BREJ	2D	Line	ST	BG	BridgeExpansionJoint	*Bridge Expansion Joint*
BRF	2D	Line	ST	BG	BridgeFooting	*Bridge Footing*
BRFB	2D	Line	ST	BG	BridgeFootingBottom	*Bridge Footing Bottom*
BRG	2D	Line	ST	BG	Bridge	*Bridge*
BRGI	2D	Point	DR	ST	GrateInletBridge	*Grate Inlet Bridge*
BRGPIL	2D	Line	ST	BG	BridgePile	*Bridge Pile*
BRGR	2D	Line	RD	BR	GuardRailBridge	*Guard Rail Bridge*
BRGRD	2D	Line	ST	BG	BridgeGirder	*Bridge Girder*
BRGSHFT	2D	Line	ST	BG	BridgeShaft	*Bridge Shaft*
BRGTPD	2D	Point	ST	BG	BridgeGroutPad	*Bridge Grout Pad*
BRMH	2D	Point	DR	ST	ManholeBridge	*Manhole Bridge*
BRP	2D	Line	ST	BG	BridgePier	*Bridge Pier*
BRPB	2D	Line	BL	LN	PvmntBreakBridge	*Pvmnt Break Bridge*
BRPC	2D	Point	ST	BG	BridgePierColumn	*Bridge Pier Column*
BRPCAP	2D	Line	ST	BG	BridgePierCapTop	*Bridge Pier Cap Top*
BRPCB	2D	Line	ST	BG	BridgePierCapBottom	*Bridge Pier Cap Bottom*
BRPCT	2D	Line	ST	BG	BridgePierColumnTop	*Bridge Pier Column Top*
BRS2D	2D	Line	TP	NT	BrushLine	*Brush Line*
BRSH	3D	Line	TP	NT	BrushLine3D	*Brush Line 3D*
BRSS	2D	Line	ST	BG	BridgeSuperStructure	*Bridge Super Structure*
BRSUBS	2D	Line	ST	BG	BridgeSubStructure	*Bridge Sub Structure*
BRSW	2D	Line	RD	CG	SidewalkBridge	*Sidewalk Bridge*
BRSWB	2D	Line	RD	CG	SidewalkBackBridge	*Sidewalk Back Bridge*
BSCK	2D	Point	PM	MN	BacksightCheck	*Backsight Check*
BT	3D	Line	BL	LN	BankTop	*Bank Top*

S2.03 Alphabetical Listing of Field Codes

The alphabetical listing below provides a complete list of standard survey elements by field code. The name of the element is prepended with a Category code and Sub-Category code to help organize symbology.

Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
BU	3D	Line	TP	MM	BuildingNotClosed	*Building Not Closed*
BUC	3D	Line	TP	MM	BuildingUnderConstOpen	*Building Under Const Open*
BUCDNC	2D	Line	TP	MM	BuildingUnderConst2D	*Building Under Const 2D*
BUCINT	3D	Line	TP	MM	BuildingUnderConstClosed	*Building Under Const Closed*
BUDNC	2D	Line	TP	MM	Building2D	*Building 2D*
BUINT	3D	Line	TP	MM	BuildingClosed	*Building Closed*
BUSPED	2D	Point	UT	GU	BusPedestal	*Bus Pedestal*
C	3D	Point	BL	PT	Concreteselective	*Concrete selective*
C4FEW	2D	Point	RW	SC	QuarterCornerFoundEW	*Quarter Corner Found EW*
C4FNS	2D	Point	RW	SC	QuarterCornerFoundNS	*Quarter Corner Found NS*
CAM	2D	Point	TR	TS	CCTVCamera	*CCTV Camera*
CANAL	3D	Line	TP	MM	Canal	*Canal*
CASE	2D	Point	EV	IR	Casing	*Casing*
CB	3D	Point	DR	ST	CatchBasin3D	*Catch Basin 3D*
CB1FL	2D	Point	DR	PP	CatchBasinFlowLine1	*Catch Basin Flow Line 1*
CB2D	2D	Point	DR	ST	CatchBasin	*Catch Basin*
CB2FL	2D	Point	DR	PP	CatchBasinFlowLine2	*Catch Basin Flow Line 2*
CB3FL	2D	Point	DR	PP	CatchBasinFlowLine3	*Catch Basin Flow Line 3*
CB4FL	2D	Point	DR	PP	CatchBasinFlowLine4	*Catch Basin Flow Line 4*
CB5FL	2D	Point	DR	PP	CatchBasinFlowLine5	*Catch Basin Flow Line 5*
CB6FL	2D	Point	DR	PP	CatchBasinFlowLine6	*Catch Basin Flow Line 6*
CB7FL	2D	Point	DR	PP	CatchBasinFlowLine7	*Catch Basin Flow Line 7*
CB8FL	2D	Point	DR	PP	CatchBasinFlowLine8	*Catch Basin Flow Line 8*
CBAR	2D	Line	RD	BR	CableBarrier	*Cable Barrier*
CBB	3D	Line	RD	CG	CurbBack	*Curb Back*
CBLPD	2D	Point	UT	CM	CablePedestal	*Cable Pedestal*
CBLV	2D	Point	TR	TS	CableVault	*Cable Vault*
CBT	3D	Line	RD	CG	CurbTop	*Curb Top*
CCAB	2D	Point	TR	SG	ControllerCabinet	*Controller Cabinet*
CCABI	2D	Point	TR	IL	ControllerCabinet	*Controller Cabinet*
CCF	2D	Point	RW	SC	ClosingCornerFound	*Closing Corner Found*
CCFN	2D	Point	RW	SC	ClosingCornerFoundNorth	*Closing Corner Found North*
CF	3D	Line	RD	CG	CurbFace	*Curb Face*
CF2D	2D	Line	RD	CG	CurbFace2D	*Curb Face 2D*
CFTI	3D	Line	RD	CG	CurbTrafficIslandFace	*Curb Traffic Island Face*
CGF	3D	Line	RD	CG	CurbAndGutter	*Curb And Gutter*

S2.03 Alphabetical Listing of Field Codes

The alphabetical listing below provides a complete list of standard survey elements by field code. The name of the element is prepended with a Category code and Sub-Category code to help organize symbology.

Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
CHB	3D	Line	TP	NT	ChannelBreakline	*Channel Breakline*
CHECK	2D	Point	BL	PT	DTMCheck	*DTM Check*
CHUB	2D	Point	TR	TS	CommunicationsHub	*Communications Hub*
CI	3D	Point	DR	ST	ConcreteInlet	*Concrete Inlet*
CMI	3D	Point	DR	ST	CastMetalInlet	*Cast Metal Inlet*
CNDI	2D	Line	TR	IL	ConduitandWiring	*Conduit and Wiring*
CNDS	2D	Line	TR	SG	ConduitandWiring	*Conduit and Wiring*
CNDTS	2D	Line	TR	TS	ConduitandWiringTS	*Conduit and Wiring TS*
CNT	3D	Line	TP	CN	IntermediateContour	*Intermediate Contour*
CNTSEC	2D	Point	RW	SC	CenterofSection	*Center of Section*
COMANT	2D	Point	UT	CM	CommunicationAntenna	*Communication Antenna*
COMHHL	2D	Point	UT	CM	CommunicationHandhole	*Communication Handhole*
COMMPO	2D	Point	UT	CM	CommunicationMonopole	*Communication Monopole*
COMPBO	2D	Point	UT	CM	CommunicationPullBox	*Communication Pull Box*
CP	2D	Point	PM	MN	PrimaryControlPoint	*Primary Control Point*
CPB	3D	Line	BL	LN	ConcretePvmntBreak	*Concrete Pvmnt Break*
CPNF	2D	Point	PM	MN	ControlPointNotFound	*Control Point Not Found*
CR	3D	Line	BL	LN	CrownofRoad	*Crown of Road*
CSP	3D	Line	TP	MM	ConcreteSlopeProtection	*Concrete Slope Protection*
CT2D	2D	Line	RD	CG	CurbTop2D	*Curb Top 2D*
CTRS	2D	Point	UT	GU	CenterOfStructure	*Center Of Structure*
CUL	2D	Line	DR	ST	Culvert	*Culvert*
CUTB	3D	Line	BL	LN	CutBottom	*Cut Bottom*
CUTT	3D	Line	BL	LN	CutTop	*Cut Top*
CWDNC	2D	Line	RD	MK	LineCrosswalkDNC	*Line Crosswalk DNC*
CWL	2D	Line	RD	MK	LineCrosswalk	*Line Crosswalk*
CZONE	3D	Line	RD	MC	ClearZoneInventoryBndry	*Clear Zone Inventory Boundary*
DAM	3D	Line	TP	MM	Dam	*Dam*
DB	3D	Line	DR	PP	DitchBottomNoDir	*Ditch Bottom No Dir*
DBB	3D	Line	DR	PP	DitchBottomBack	*Ditch Bottom Back*
DBD	3D	Line	DR	PP	DitchBottom	*Ditch Bottom*
DECK	2D	Line	TP	MM	Deck	*Deck*
DEL	3D	Line	RD	MK	LineDottedExtension	*Line Dotted Extension*
DELDNC	2D	Line	RD	MK	LineDottedExtensionDNC	*Line Dotted Extension DNC*
DFLDD	2D	Line	UT	SS	DrainfieldDeactive	*Drainfield Deactive*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
DGA	2D	Point	UT	GU	DownGuyAnchor	*Down Guy Anchor*
DI	3D	Point	DR	ST	DropInlet	*Drop Inlet*
DI2	2D	Point	DR	ST	DropInletType2	*Drop Inlet Type 2*
DIKE	3D	Line	TP	MM	Dike	*Dike*
DIRP	3D	Point	DR	PP	DirectionofPipe	*Direction of Pipe*
DL1TA	2D	Point	TR	SG	DetLoopType16x15	*Detection Loop Type 1 6x15*
DL1TB	2D	Point	TR	SG	DetLoopType16x30	*Detection Loop Type 1 6x30*
DL1TC	2D	Point	TR	SG	DetLoopType16x50	*Detection Loop Type 1 6x50*
DL2T	2D	Point	TR	SG	DetLoopType26x6	*Detection Loop Type 2 6x6*
DL3AT	2D	Point	TR	SG	DetLoopType3a	*Detection Loop Type 3a*
DL3T	2D	Point	TR	SG	DetLoopType3	*Detection Loop Type 3*
DLD	2D	Point	TR	SG	DetLoopDiamond	*Detection Loop Diamond*
DLL	3D	Line	RD	MK	LineDropLane	*Line Drop Lane*
DLLDNC	2D	Line	RD	MK	LineDropLaneDNC	*Line Drop Lane DNC*
DM	3D	Point	RD	MK	DrainageMark	*Drainage Mark*
DMCB	3D	Point	RD	MK	DrainageMarkCatchBasin	*Drainage Mark Catch Basin*
DOCK	2D	Line	TP	MM	Dock	*Dock*
DP	2D	Line	DR	PP	DrainPipe	*Drain Pipe*
DPDA	2D	Line	DR	PP	DrainPipeDeactive	*Drain Pipe Deactive*
DPND	3D	Line	DR	PP	DetentionPond	*Detention Pond*
DPNDB	3D	Line	DR	PP	DetentionPondBottom	*Detention Pond Bottom*
DRL	2D	Line	DR	PP	DrainLine	*Drain Line*
DRLDA	2D	Line	DR	PP	DrainLineDeactive	*Drain Line Deactive*
DSTA	2D	Point	TR	TS	DataStation	*Data Station*
DTIE	2D	Line	TP	MM	DistanceTie	*Distance Tie*
DUDL	2D	Point	TR	IL	LuminaireDblUnderdeck	*Luminaire Double Underdeck*
DW	2D	Point	DR	ST	DryWell	*Dry Well*
DWL	3D	Line	RD	MK	LineDottedWide	*Line Dotted Wide*
DWLDNC	2D	Line	RD	MK	LineDottedWideDNC	*Line Dotted Wide DNC*
DY	3D	Line	RD	MK	LineDblYellowCenter	*Line Dbl Yellow Center*
DYDNC	2D	Line	RD	MK	LineDblYellowCenterDNC	*Line Dbl Yellow Center DNC*
EB	2D	Point	UT	PW	ElectBox	*Elect Box*
EBST	3D	Line	RD	ED	ShoulderBSTEdge	*Shoulder BST Edge*
EDW	3D	Line	RD	ED	DrivewayEdge	*Driveway Edge*
EGDW	3D	Line	RD	ED	DrivewayGravelEdge	*Driveway Gravel Edge*
EGR	3D	Line	RD	ED	RoadwayETWGravel	*Roadway ETW Gravel*

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EGS	3D	Line	RD	ED	ShoulderGravelEdge	*Shoulder Gravel Edge*
EI	3D	Line	EV	WL	EstITidalHiSaltMarsh	*Estuary Itidal Hi Salt Marsh*
EL	3D	Line	RD	MK	LineEdgeWhite	*Line Edge White*
ELDNC	2D	Line	RD	MK	LineEdgeWhiteDNC	*Line Edge White DNC*
ELY	3D	Line	RD	MK	LineEdgeYellow	*Line Edge Yellow*
ELYDNC	2D	Line	RD	MK	LineEdgeYellowDNC	*Line Edge Yellow DNC*
ENGGEN	2D	Point	UT	PW	EngineGenerator	*Engine Generator*
ENVDIT	3D	Line	EV	IR	Ditch	*Ditch*
EP	3D	Line	RD	ED	RoadwayETWPaved	*Roadway ETW Paved*
EPDW	3D	Line	RD	ED	DrivewayPavedEdge	*Driveway Paved Edge*
EPS	3D	Line	RD	ED	ShoulderPavedEdge	*Shoulder Paved Edge*
ESBI	2D	Point	TR	IL	ElectricalServiceCab	*Electrical Service Cab*
ESUB	3D	Line	EV	WL	EstSTidalLoSaltMarsh	*Estuary Stidal Lo Salt Marsh*
EW	3D	Line	TP	NT	LargeBodyofWaterEdge	*Large Body of Water Edge*
EX1U	2D	Line	UT	MT	UtilitiesMultiTypes1	*Utilities Multi Types 1*
EX2U	2D	Line	UT	MT	UtilitiesMultiTypes2	*Utilities Multi Types 2*
EX3U	2D	Line	UT	MT	UtilitiesMultiTypes3	*Utilities Multi Types 3*
EX4U	2D	Line	UT	MT	UtilitiesMultiTypes4	*Utilities Multi Types 4*
EX5U	2D	Line	UT	MT	UtilitiesMultiTypes5	*Utilities Multi Types 5*
EX6U	2D	Line	UT	MT	UtilitiesMultiTypes6	*Utilities Multi Types 6*
EX7U	2D	Line	UT	MT	UtilitiesMultiTypes7	*Utilities Multi Types 7*
EX8U	2D	Line	UT	MT	UtilitiesMultiTypes8	*Utilities Multi Types 8*
EX9U	2D	Line	UT	MT	UtilitiesMultiTypes9	*Utilities Multi Types 9*
FC	2D	Point	RW	PA	FenceCorner	*Fence Corner*
FDCP	2D	Point	UT	WT	FireDeptConnPost	*Fire Depart Connection Post*
FDCW	2D	Point	UT	WT	FireDeptConnWall	*Fire Depart Connection Wall*
FE	3D	Line	RD	BR	Fence3D	*Fence 3D*
FE2D	2D	Line	RD	BR	Fence	*Fence*
FENRW	2D	Line	RD	BR	FenceRWPlan	*Fence RW Plan*
FH	2D	Point	UT	WT	FireHydrant	*Fire Hydrant*
FLBCN	2D	Point	TR	SG	FlashingBeacon	*Flashing Beacon*
FLD	3D	Line	TP	MM	FieldLine	*Field Line*
FLFY	2D	Line	EV	WL	500YearFlood	*500 Year Flood*
FLOARR	2D	Point	TP	NT	FlowArrow	*Flow Arrow*
FLOY	2D	Line	EV	WL	100YearFlood	*100 Year Flood*
FLT	2D	Point	TR	IL	FluorescentLight	*Fluorescent Light*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
FLUME	2D	Point	DR	PP	Flume	*Flume*
FNDN	2D	Line	TP	MM	Foundation	*Foundation*
FORMAIN	2D	Line	UT	SS	ForceMain	*Force Main*
FPOLE	2D	Point	TP	MM	FlagPole	*Flag Pole*
FRST	2D	Line	TP	NT	Forest	*Forest*
FT	3D	Line	BL	LN	FillToe	*Fill Toe*
FTC	2D	Point	TR	TS	FiberTerminalCabinet	*Fiber Terminal Cabinet*
FTOP	3D	Line	BL	LN	FillTop	*Fill Top*
FURN	2D	Line	EV	LS	Furnishings	*Furnishings*
G	3D	Point	BL	PT	Groundselective	*Ground selective*
GAS	2D	Line	UT	GS	GasLine	*Gas Line*
GASDA	2D	Line	UT	GS	GasLineDeactive	*Gas Line Deactive*
GATE	3D	Point	RD	BR	Gate	*Gate*
GATES	3D	Point	RD	BR	GateSingle	*Gate Single*
GBW	3D	Line	ST	WA	GabionWall	*Gabion Wall*
GBWB	3D	Line	ST	WA	GabionWallBottom	*Gabion Wall Bottom*
GBWT	3D	Line	ST	WA	GabionWallTop	*Gabion Wall Top*
GEO	2D	Point	TR	SN	WashingtonShield	*Washington Shield*
GF	3D	Line	RD	CG	GutterFace	*Gutter Face*
GI	3D	Point	DR	ST	GrateInlet	*Grate Inlet*
GMB	2D	Point	UT	GS	GasMeterBox	*Gas Meter Box*
GP	2D	Point	RD	BR	GuidePost	*Guide Post*
GPA	3D	Line	TP	MM	GravelParkingArea	*Gravel Parking Area*
GPS	2D	Point	PM	MN	GlobalPositioningPoint	*Global Positioning Point*
GR	3D	Line	RD	BR	Guardrail3D	*Guardrail 3D*
GR2D	2D	Line	RD	BR	Guardrail	*Guardrail*
GRA	3D	Point	RD	BR	GuardrailAnchor	*Guardrail Anchor*
GROD	2D	Point	UT	PW	GroundRod	*Ground Rod*
GTANK	2D	Point	TP	MM	GasTank	*Gas Tank*
GUYL	2D	Line	UT	GU	GuyWire	*Guy Wire*
GUYP	2D	Point	UT	GU	GuyPole	*Guy Pole*
HARS	2D	Point	TR	TS	HARSign	*HAR Sign*
HARTR	2D	Point	TR	TS	HARTransmitter	*HAR Transmitter*
HDG	3D	Line	TP	MM	Hedge3D	*Hedge 3D*
HDG2D	2D	Line	TP	MM	Hedge	*Hedge*
HDW	3D	Line	DR	ST	HeadWall	*Head Wall*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
HDWB	3D	Line	DR	ST	HeadWallBottom	*Head Wall Bottom*
HDWT	3D	Line	DR	ST	HeadWallTop	*Head Wall Top*
HNDRAIL	2D	Line	TP	MM	HandRail	*Hand Rail*
HPSS	2D	Point	RD	MK	HCapParkingSymb	*Handicap Parking Symbol*
HRX	2D	Line	EV	HR	HecRasXsec	*Hec Ras Xsection*
HWL	3D	Line	TP	NT	HighWaterLine	*High Water Line*
IA	2D	Point	RD	BR	ImpactAttenuator	*Impact Attenuator*
ICONT	3D	Line	TP	CN	IndexContour	*Index Contour*
ILT2M	2D	Point	TR	TS	InductionLoopType2Mod	*Induction Loop Type 2 Mod*
INL	3D	Point	DR	ST	InletGeneric	*Inlet Generic*
INLC	2D	Point	EV	EC	InletCover	*Inlet Cover*
INLF	2D	Point	EV	EC	InletFilter	*Inlet Filter*
INLI	2D	Point	EV	EC	InletInsert	*Inlet Insert*
INLS	3D	Line	DR	ST	InletSlotted	*Inlet Slotted*
IRBX	2D	Point	EV	IR	Box	*Box*
IRC	2D	Point	EV	IR	Controller	*Controller*
IRLD	2D	Line	EV	IR	LineDrip	*Line Drip*
IRLL	2D	Line	EV	IR	LineLateral	*Line Lateral*
IRLM	2D	Line	EV	IR	LineMain	*Line Main*
IRLR	2D	Line	EV	IR	LineUnknown	*Line Unknown*
IRM	2D	Point	EV	IR	Meter	*Meter*
IRSH	2D	Point	EV	IR	SprinklerHeadFull	*Sprinkler Head Full*
IRSHH	2D	Point	EV	IR	SprinklerHeadHalf	*Sprinkler Head Half*
IRSHTQ	2D	Point	EV	IR	SprinklerHead75	*Sprinkler Head 75*
IRV	2D	Point	EV	IR	Valve	*Valve*
IS	2D	Point	PM	MN	GPPInstrumentStation	*GPP Instrument Station*
ISHLD	2D	Point	TR	SN	InterstateShield	*Interstate Shield*
ISTRE	3D	Line	TP	NT	IntermittentStream	*Intermittent Stream*
JB	2D	Point	TR	IL	JBoxUnknown	*Junction Unknown*
JB1T	2D	Point	TR	IL	JBox1	*Junction Box Type 1*
JB1TS	2D	Point	TR	SG	JBox1	*Junction Box Type 1*
JB1TT	2D	Point	TR	TS	JBox1	*Junction Box Type 1*
JB2T	2D	Point	TR	IL	JBox2	*Junction Box Type 2*
JB2TS	2D	Point	TR	SG	JBox2	*Junction Box Type 2*
JB2TT	2D	Point	TR	TS	JBox2	*Junction Box Type 2*
JB3T	2D	Point	TR	IL	JBox3	*Junction Box Type 3*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
JB3TS	2D	Point	TR	SG	JBox3	*Junction Box Type 3*
JB4T	2D	Point	TR	IL	JBox4(Traffic-bearing)	*Junction Box Type 4 (Traffic-bearing)*
JB4TS	2D	Point	TR	SG	JBox4(Traffic-bearing)	*Junction Box Type 4 (Traffic-bearing)*
JB4TT	2D	Point	TR	TS	JBox4(Traffic-bearing)	*Junction Box Type 4 (Traffic-bearing)*
JB5T	2D	Point	TR	IL	JBox5(Traffic-bearing)	*Junction Box Type 5 (Traffic-bearing)*
JB5TS	2D	Point	TR	SG	JBox5(Traffic-bearing)	*Junction Box Type 5 (Traffic-bearing)*
JB5TT	2D	Point	TR	TS	JBox5(Traffic-bearing)	*Junction Box Type 5 (Traffic-bearing)*
JB6T	2D	Point	TR	IL	JBox6(Traffic-bearing)	*Junction Box Type 6 (Traffic-bearing)*
JB6TS	2D	Point	TR	SG	JBox6(Traffic-bearing)	*Junction Box Type 6 (Traffic-bearing)*
JB6TT	2D	Point	TR	TS	JBox6(Traffic-bearing)	*Junction Box Type 6 (Traffic-bearing)*
JB7T	2D	Point	TR	IL	JBox7(NoLock)	*Junction Box Type 7 (No lock)*
JB7TS	2D	Point	TR	SG	JBox7(NoLock)	*Junction Box Type 7 (No lock)*
JB7TT	2D	Point	TR	TS	JBox7(NoLock)	*Junction Box Type 7 (No lock)*
JB8T	2D	Point	TR	IL	JBox8(WithLock)	*Junction Box Type 8 (With lock)*
JB8TS	2D	Point	TR	SG	JBox8(WithLock)	*Junction Box Type 8 (With lock)*
JB8TT	2D	Point	TR	TS	JBox8(WithLock)	*Junction Box Type 8 (With lock)*
JBAER	2D	Point	TR	IL	JBoxAerial	*Junction Box Aerial*
JBAERS	2D	Point	TR	SG	JBoxAerial	*Junction Box Aerial*
JBAERT	2D	Point	TR	TS	JBoxAerial	*Junction Box Aerial*
JBM	2D	Point	RD	MK	JBoxMarker	*JBox Marker*
JBNMA	2D	Point	TR	IL	JBoxNema	*Junction Box Nema*
JBNMAS	2D	Point	TR	SG	JBoxNema	*Junction Box Nema*
JBNMAT	2D	Point	TR	TS	JBoxNema	*Junction Box Nema*
JBS	2D	Point	TR	SG	JBoxUnknown	*Junction Box Unknown*
JBT	2D	Point	TR	TS	JBoxUnknown	*Junction Box Unknown*
L	2D	Point	TP	MM	YardLight	*Yard Light*
LAKE	3D	Line	TP	NT	LakeEdge	*Lake Edge*
LB	3D	Line	EV	HR	LeftBank	*Left Bank*
LCONSIN	2D	Point	TR	TS	LaneControlSign	*Lane Control Sign*
LIMITM	2D	Line	TP	CN	MeasurementLimit	*Measurement Limit*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
LL	3D	Line	RD	MK	LineLane	*Line Lane*
LLDNC	2D	Line	RD	MK	LineLaneDNC	*Line Lane DNC*
LOB	2D	Line	EV	HR	LeftOverBank	*Left Over Bank*
LOS	2D	Line	BL	LN	LineofSight	*Line of Sight*
LPOLE	2D	Point	TR	IL	LightPole	*Light Pole*
LS	2D	Point	TR	IL	LightStdGeneric	*Light Standard Generic*
LSDM	2D	Point	TR	IL	LightStdDblMetal	*Light Standard Double Metal*
LSDMS	2D	Point	TR	SG	LightStdDblMetal	*Light Standard Double Metal*
LSDT	2D	Point	TR	IL	LightStdDblTimber	*Light Standard Double Timber*
LSDTS	2D	Point	TR	SG	LightStdDblTimber	*Light Standard Double Timber*
LSEC	3D	Line	BL	LN	LIDARSection	*LIDAR Section*
LSQM	2D	Point	TR	IL	LightStdQuadMetal	*Light Standard Quad Metal*
LSQMS	2D	Point	TR	SG	LightStdQuadMetal	*Light Standard Quad Metal*
LSS	2D	Point	TR	SG	LightStdGeneric	*Light Standard Generic*
LSSIXM	2D	Point	TR	IL	LightStdSixMetal	*Light Standard Six Metal*
LSSIXMS	2D	Point	TR	SG	LightStdSixMetal	*Light Standard Six Metal*
LSSM	2D	Point	TR	IL	LightStdSnglMetal	*Light Standard Single Metal*
LSSMS	2D	Point	TR	SG	LightStdSnglMetal	*Light Standard Single Metal*
LSST	2D	Point	TR	IL	LightStdSnglTimber	*Light Standard Single Timber*
LSSTS	2D	Point	TR	SG	LightStdSnglTimber	*Light Standard Timber Metal*
LSTM	2D	Point	TR	IL	LightStdTriMetal	*Light Standard Tri Metal*
LSTMS	2D	Point	TR	SG	LightStdTriMetal	*Light Standard Tri Metal*
MB	2D	Point	TP	MM	MailBox	*Mail Box*
MCC	2D	Point	PM	MN	MonumentCaseandCover	*Monument Case and Cover*
MCF	2D	Point	RW	SC	MeanderCornerFound	*Meander Corner Found*
MH	3D	Point	DR	ST	Manhole	*Manhole*
MHC	3D	Point	UT	CM	Manhole	*Communications Manhole*
MHGU	3D	Point	UT	GU	UtilityManhole	*Utility Manhole*
MHPW	3D	Point	UT	PW	PowerManhole	*Power Manhole*
MHSS	3D	Point	UT	SS	SanSewerManhole	*San Sewer Manhole*
MHT	3D	Point	UT	CM	TelephoneManhole	*Telephone Manhole*
MHW	3D	Point	UT	WT	WaterManhole	*Water Manhole*
MLN	3D	Line	TP	NT	MarshEdge	*Marsh Edge*
MNCTL	2D	Point	TR	SN	MonotubeCantilever	*Monotube Cantilever*
MNSBDG	2D	Point	TR	SN	MonotubeSignBridge	*Monotube Sign Bridge*
MON	2D	Point	PM	MN	MonumentFound	*Monument Found*

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MONC	2D	Point	PM	MN	MonumentCalcd	*Monument Calculated*
MONNF	2D	Point	PM	MN	MonumentNotFound	*Monument Not Found*
MSTAS	2D	Point	TR	SG	MastArmSign	*Mast Arm Sign*
MSYM	2D	Point	EV	WL	WetlandSymb	*Wetland Symbol*
MWEL	3D	Point	TP	MM	MonitorWell	*Monitor Well*
NAV	2D	Point	TR	IL	NavigationLight	*Navigation Light*
NAVCHN	2D	Line	TP	MM	NavigationChannel	*Navigation Channel*
NB	3D	Line	RD	BM	NoiseBerm	*Noise Berm*
NHMLL	2D	Line	EV	WL	WaterLineNrmHighMaxLkLvl	*Water Line Normal High Maximum Lake Level*
NOB	2D	Line	TP	NT	Obstruction	*Obstruction*
NPL	3D	Line	RD	MK	LineNoPass	*Line No Pass*
NPLDNC	2D	Line	RD	MK	LineNoPassDNC	*Line No Pass DNC*
NS	3D	Point	BL	PT	NonStandard	*NonStandard*
NSL	3D	Line	BL	LN	NonStandard	*NonStandard*
NSTRE	3D	Line	TP	NT	StreamNonScalable	*Stream Non Scalable*
NW	2D	Line	ST	WA	NoiseWall	*Noise Wall*
NWB	3D	Line	ST	WA	NoiseWallBottom	*Noise Wall Bottom*
NWT	3D	Line	ST	WA	NoiseWallTop	*Noise Wall Top*
OBS	3D	Line	BL	LN	ObscureArea	*Obscure Area*
OCAB	2D	Line	UT	CM	AbvGndCableTV	*Above Ground Cable TV*
OCL	2D	Line	UT	CM	AbvGndCommLine	*Above Ground Communication Line*
OFR	3D	Point	DR	ST	OpenFlowRestrictor	*Open Flow Restrictor*
OHTP	2D	Line	UT	PW	AbvGndHiTensPowerLine	*Above Ground Hi Tens Power Line*
OHW	2D	Line	EV	WL	WaterLineOrdinaryHigh	*Water Line Ordinary High*
OHWF	2D	Point	EV	WL	WaterLineOrdinaryHighFlag	*Water Line Ordinary High Flag*
OIL	2D	Line	UT	GS	OilLine	*Oil Line*
OILDA	2D	Line	UT	GS	OilLineDeactive	*Oil Line Deactive*
OOFC	2D	Line	UT	CM	AbvGndFiberOpticCable	*Above Ground Fiber Optic Cable*
OPOW	2D	Line	UT	PW	AbvGndPower	*Above Ground Power*
ORCH	3D	Line	TP	MM	OrchardOrVineyard	*Orchard Or Vineyard*
OTANK	2D	Point	TP	MM	OilTank	*Oil Tank*
OTEL	2D	Line	UT	CM	AbvGndTelephoneLine	*Above Ground Telephone Line*
OU	2D	Line	UT	MT	AbvGndUtilitiesMulti	*Above Ground Utilities Multiple*
OULINE	2D	Line	UT	GU	AboveGroundUtilityLine	*Above Ground Utility Line*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
OUPT	2D	Point	UT	GU	AboveGroundUtilityPoint	*Above Ground Utility Point*
OVRSGN	2D	Point	TR	SN	OverheadSign	*Overhead Sign*
P	3D	Point	BL	PT	Pvmntselective	*Pvmnt selective*
PAR	3D	Line	TP	MM	PavedArea	*Paved Area*
PATH	3D	Line	RD	ED	PedPathEdge	*Pedestrian Path Edge*
PATIO	2D	Line	TP	MM	Patio	*Patio*
PBBP	2D	Point	TR	SG	PedPushButtonPost	*Pedestrian PushButton Post*
PBOXI	2D	Point	TR	IL	PullBox	*Pull Box*
PBOXT	2D	Point	TR	TS	PullBox	*Pull Box*
PBUT	2D	Point	TR	SG	PedPushButton	*Pedestrian PushButton*
PBX	2D	Point	UT	PW	PowerBox	*Power Box*
PEM	3D	Line	EV	WL	EmergentFreshMarsh	*Emergent Fresh Marsh*
PFO	3D	Line	EV	WL	Forested	*Forested*
PFRK	2D	Point	TR	IL	PitchforkLight	*Pitchfork Light*
PH	2D	Point	UT	GU	PotholeLocation	*Pothole Location*
PHCEN	2D	Point	PM	PH	PhotoCenter	*Photo Center*
PHCP	2D	Point	PM	PH	PhotoHorVertControlPoint	*Photo Horizontal Vertical Control Point*
PHD	2D	Point	TR	SG	PedSignalHeadDbl	*Pedestrian Signal Head Dbl*
PHL	2D	Point	TR	SG	PedSignalHeadL	*Pedestrian Signal Head L*
PHR	2D	Point	TR	SG	PedSignalHeadR	*Pedestrian Signal Head R*
PHS	2D	Point	TR	SG	PedSignalHeadST	*Pedestrian Signal Head ST*
PHTIC	2D	Point	PM	PH	PhotoGridTic	*Photo Grid Tic*
PIEZ	2D	Point	TP	MM	Piezometer	*Piezometer*
PILE	2D	Point	TP	MM	Piling	*Piling*
PIPBRCA	2D	Point	UT	GU	PipeBraceAnchor	*Pipe Brace Anchor*
PIPE	2D	Line	TP	MM	Pipe	*Pipe*
PIPEFL	2D	Point	DR	PP	FlowLineForPipes	*Flow Line For Pipes*
PLS	2D	Point	RD	MK	HOVSymb	*HOV Symbol*
PM	2D	Point	TP	MM	ParkingMeter	*Parking Meter*
PMB	2D	Point	UT	PW	PowerMeterBox	*Power Meter Box*
PMPTD	2D	Point	TR	SG	EmergPreemptDet	*Emergency Preem Point Detail*
PMPTI	2D	Point	TR	SG	EmergPreemptIndicator	*Emergency Preem Point Indicator*
POND	3D	Line	TP	NT	PondEdge	*Pond Edge*
PONDB	3D	Line	TP	NT	PondBottom	*Pond Bottom*
POSTM	2D	Point	TP	MM	PostMetal	*Post Metal*

S2.03 Alphabetical Listing of Field Codes

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
POSTW	2D	Point	TP	MM	PostWood	*Post Wood*
POW	3D	Line	EV	WL	OpenFreshPond	*Open Fresh Pond*
POWHHL	2D	Point	UT	PW	PowerHandhole	*Power Handhole*
POWPAN	2D	Point	TR	TS	PowerPanel	*Power Panel*
POWPBO	2D	Point	UT	PW	PowerPullBox	*Power Pull Box*
PP	2D	Point	UT	PW	PowerPole	*Power Pole*
PPA	3D	Line	TP	MM	PavedParkingArea	*Paved Parking Area*
PPI	2D	Point	TR	IL	Pole	*Pole*
PPS	2D	Point	TR	SG	Pole	*Pole*
PROADE	3D	Line	RD	ED	GenericEdgePaved	*Generic Edge Paved*
PROPC	2D	Point	RW	PA	PropertyCorner	*Property Corner*
PSS	3D	Line	EV	WL	ScrubShrub	*Scrub Shrub*
PTRC	2D	Point	TR	TS	PermTrafficRecorderCab	*Perm Traffic Recorder Cab*
QB	3D	Line	TP	MM	QuarryBndry	*Quarry Boundary*
QSY	2D	Point	TP	MM	QuarrySymb	*Quarry Symbol*
RB	3D	Line	EV	HR	RightBank	*Right Bank*
RBU2D	2D	Line	TP	MM	Ruins2D	*Ruins 2D*
REMAMP	2D	Point	TR	TS	RemoteAmplifierCabinet	*Remote Amplifier Cabinet*
RESV	3D	Line	TP	MM	Reservoir	*Reservoir*
RIP	3D	Line	TP	MM	RipRapEdge	*Rip Rap Edge*
RIV	3D	Line	TP	NT	RiverEdge	*River Edge*
RLL	3D	Line	RD	MK	LineReversibleLane	*Line Reversible Lane*
RLLDNC	2D	Line	RD	MK	LineReversibleLaneDNC	*Line Reversible Lane DNC*
RMSG	2D	Point	TR	SG	RampMeterSignal	*Ramp Meter Signal*
RMSGL	2D	Point	TR	SG	RampMeterSignalLT	*Ramp Meter Signal LT*
RMSGR	2D	Point	TR	SG	RampMeterSignalRT	*Ramp Meter Signal RT*
ROADEG	3D	Line	RD	ED	GenericEdgeGravel	*Generic Edge Gravel*
ROB	2D	Line	EV	HR	RightOverBank	*Right Over Bank*
ROCK	3D	Point	BL	PT	Rock	*Rock*
ROCKL	3D	Line	BL	LN	RockLine	*Rock Line*
ROWM	2D	Point	RW	BD	RWMarker	*RW Marker*
ROWMC	2D	Point	RW	BD	RWMarkerCalcd	*RW Marker Calculated*
ROWMF	2D	Point	RW	BD	RWMarkerFound	*RW Marker Found*
ROWMNF	2D	Point	RW	BD	RWMarkerNotFound	*RW Marker Not Found*
RP	2D	Point	BL	PT	ReferencePoint	*Reference Point*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
RPM1T	2D	Point	RD	MK	RaisedPvmntMarkerType1	*Raised Pavement Marker Type 1*
RPM2T	2D	Point	RD	MK	RaisedPvmntMarkerType2	*Raised Pavement Marker Type 2*
RPM3T	2D	Point	RD	MK	RaisedPvmntMarkerType3	*Raised Pavement Marker Type 3*
RPML	3D	Line	RD	MK	LineRPMSkip	*Line RPM Skip*
RPMLDN	2D	Line	RD	MK	LineRPMSkipDNC	*Line RPM Skip DNC*
RPMLS	3D	Line	RD	MK	LineRPMSolid	*Line RPM Solid*
RPMLSD	2D	Line	RD	MK	LineRPMSolidDNC	*Line RPM Solid DNC*
RR	3D	Line	TP	MM	RRCenterTracks3D	*RR Center Tracks 3D*
RR2D	2D	Line	TP	MM	RRCenterTracks	*RR Center Tracks*
RRS	2D	Point	RD	MK	RRSymb	*RR Symbol*
RRST	2D	Line	ST	BG	RRStructure	*RR Structure*
RRT	2D	Line	TP	MM	RRRailTop	*RR Rail Top*
RS	2D	Line	RD	MK	RumbleStrip	*Rumble Strip*
RW2D	2D	Line	ST	WA	RetainingWall	*Retaining Wall*
RWB	3D	Line	ST	WA	RetainingWallBottom	*Retaining Wall Bottom*
RWT	3D	Line	ST	WA	RetainingWallTop	*Retaining Wall Top*
SCAB	2D	Point	TR	SG	ElectServiceCabinet	*Elect Service Cabinet*
SCDIBX	2D	Point	TR	TS	SCDIBox	*SCDI Box*
SCF	2D	Point	RW	SC	SectionCornerFound	*Section Corner Found*
SCL	3D	Line	RD	MK	LineSkipCenter	*Line Skip Center*
SCLDNC	2D	Line	RD	MK	LineSkipCenterDNC	*Line Skip Center DNC*
SE	3D	Point	TP	CN	SpotElevation	*Spot Elevation*
SEW	2D	Line	UT	SS	SanSewerLine	*San Sewer Line*
SEWDA	2D	Line	UT	SS	SanSewerLineDeactive	*San Sewer Line Deactive*
SF	2D	Line	BL	LN	StressFracture	*Stress Fracture*
SGDB	2D	Point	TR	SN	SignDblePost	*Sign Double Post*
SGFLW	2D	Point	TR	SN	SignFlushWall	*Sign Flush Wall*
SGN4	2D	Point	TR	SN	SignFourPost	*Sign Four Post*
SGNW	2D	Point	TR	SN	SignFromWall	*Sign From Wall*
SGP	2D	Point	TR	SG	SignalPoleUnknown	*Signal Pole Unknown*
SGP1T	2D	Point	TR	SG	SignalStdType1or4	*Signal Standard Type 1 or 4*
SGP2T	2D	Point	TR	SG	SignalStdType2	*Signal Standard Type 2*
SGP3T	2D	Point	TR	SG	SignalStdType3	*Signal Standard Type 3*
SGP5T	2D	Point	TR	SG	SignalStdType5	*Signal Standard Type 5*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
SGSNG	2D	Point	TR	SN	SignSnglPost	*Sign Single Post*
SGTR	2D	Point	TR	SN	SignTriplePost	*Sign Triple Post*
SH	2D	Point	TR	SG	SignalHead	*Signal Head*
SHDSE	2D	Point	EV	IR	SprinklerHeadStripEnd	*Sprinkler Head Strip End*
SHDSS	2D	Point	EV	IR	SprinklerHeadStripSide	*Sprinkler Head Strip Side*
SHDTC	2D	Point	EV	IR	SprinklerHeadStripCenter	*Sprinkler Head Strip Center*
SHDTF	2D	Point	EV	IR	SprinklerHead25	*Sprinkler Head 25*
SHH	2D	Point	TR	SG	SignalHeadHoriz	*Signal Head Horizontal*
SIG1TS	2D	Point	TR	TS	SignalType1	*Signal Type 1*
SIG2TS	2D	Point	TR	TS	SignalType2	*Signal Type 2*
SIGN	2D	Point	TR	SN	Sign	*Sign*
SL	2D	Line	RD	MK	LineStop	*Line Stop*
SLAB	3D	Line	TP	MM	ConcreteSlab	*Concrete Slab*
SLDNC	2D	Line	RD	MK	LineStopDNC	*Line Stop DNC*
SLGHT	2D	Point	TR	IL	SignLight	*Sign Light*
SMDSIN	2D	Point	TR	TS	SideMountDynamicSign	*Side Mount Dynamic Sign*
SN	3D	Point	BL	PT	Sounding	*Sounding*
SNSR	2D	Point	TR	TS	Sensor	*Sensor*
SOILP	3D	Point	BL	PT	SoilPit	*SoilPit*
SPA	2D	Point	TR	IL	StrnPoleAnchor	*Strn Pole Anchor*
SPAS	2D	Point	TR	SG	StrnPoleAnchor	*Strn Pole Anchor*
SPB	3D	Line	TP	MM	StockpileBottom	*Stockpile Bottom*
SPG	3D	Line	DR	PP	Spring	*Spring*
SPNWIR	2D	Line	UT	GU	Spanwire	*Span Wire*
SPT	3D	Line	TP	MM	StockpileTop	*Stockpile Top*
SRSHLD	2D	Point	TR	SN	StateRouteShield	*State Route Shield*
SSCO	3D	Point	UT	SS	SanSewerCleanOut	*San Sewer Clean Out*
SSF	2D	Line	EV	WL	ScrubShrubForested	*Scrub Shrub Forested*
SSFLP	2D	Point	UT	SS	FlowlinePoint	*Flow Line Point*
SSSC	2D	Line	UT	SS	SanSewerStormSewerCombo	*San Sewer Storm Sewer Combo*
STAIR	2D	Line	TP	MM	Stair	*Stair*
STMCO	3D	Point	DR	ST	StormSewerCleanOut	*Storm Sewer Clean Out*
STMCON	2D	Line	UT	PW	SteamConduit	*Steam Conduit*
STRCT	2D	Line	TP	MM	Structure	*Structure*
STRE	3D	Line	TP	NT	StreamScaleableEdge	*Stream Scaleable Edge*

S2.03 Alphabetical Listing of Field Codes

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
STREB	3D	Line	TP	NT	StreamScaleableBottom	*Stream Scaleable Bottom*
STRECL	3D	Line	EV	HR	StreamCenterline	*Stream Centerline*
STT	2D	Point	UT	CM	SteelTransmissionTower	*Steel Transmission Tower*
STTP	2D	Point	UT	PW	SteelTransmissionTower	*Steel Transmission Tower*
STU2D	2D	Line	ST	BG	Structure	*Structure*
STUMP	2D	Point	TP	NT	Stump	*Stump*
SW	3D	Line	RD	CG	Sidewalk	*Sidewalk*
SWB	3D	Line	RD	CG	SidewalkBack	*Sidewalk Back*
SWF	3D	Line	RD	CG	SidewalkFace	*Sidewalk Face*
SWIGEAR	2D	Point	UT	PW	SwitchGear	*Switch Gear*
SWR	3D	Line	RD	CG	SidewalkRamp	*Sidewalk Ramp*
SWTA	3D	Line	EV	WL	StormWaterTrtmnt	*Storm Water Treattment*
T	3D	Point	TP	NT	Tree3DByCenter	*Tree 3D By Center*
T2D	2D	Point	TP	NT	TreeByCenter	*Tree By Center*
T2DE	2D	Point	TP	NT	TreeByEdge	*Tree By Edge*
TABS	2D	Point	RD	MK	TrafficArrowType5BigS	*Traffic Arrow Type 5 Big S*
TAL	2D	Point	RD	MK	TrafficArrowType2L	*Traffic Arrow Type 2 L*
TALF	2D	Point	RD	MK	TrafficArrowType6L	*Traffic Arrow Type 6 L*
TALR	2D	Point	RD	MK	TrafficArrowType4LR	*Traffic Arrow Type 4 LR*
TALRS	2D	Point	RD	MK	TrafficArrowType7LRS	*Traffic Arrow Type 7 LRS*
TALS	2D	Point	RD	MK	TrafficArrowType3LS	*Traffic Arrow Type 3 LS*
TANK	2D	Point	TP	MM	Tank	*Tank*
TANKL	2D	Line	TP	MM	TankLine	*Tank Line*
TAR	2D	Point	RD	MK	TrafficArrowType2R	*Traffic Arrow Type 2 R*
TARALC	2D	Point	RD	MK	TrafficArrowRATypeLC	*Traffic Arrow RA Type LC*
TARALT	2D	Point	RD	MK	TrafficArrowRATypeLT	*Traffic Arrow RA Type LT*
TARALTC	2D	Point	RD	MK	TrafficArrowRATypeLTC	*Traffic Arrow RA Type LTC*
TARALTR	2D	Point	RD	MK	TrafficArrowRATypeLTR	*Traffic Arrow RA Type LTR*
TARALTR	2D	Point	RD	MK	TrafficArrowRATypeLTRC	*Traffic Arrow RA Type LTRC*
TARAT	2D	Point	RD	MK	TrafficArrowRATypeT	*Traffic Arrow RA Type T*
TARATC	2D	Point	RD	MK	TrafficArrowRATypeTC	*Traffic Arrow RA Type TC*
TARATR	2D	Point	RD	MK	TrafficArrowRATypeTR	*Traffic Arrow RA Type TR*
TARATRC	2D	Point	RD	MK	TrafficArrowRATypeTRC	*Traffic Arrow RA Type TRC*
TARF	2D	Point	RD	MK	TrafficArrowType6R	*Traffic Arrow Type 6 R*
TARS	2D	Point	RD	MK	TrafficArrowType3RS	*Traffic Arrow Type 3 RS*
TAS	2D	Point	RD	MK	TrafficArrowType1S	*Traffic Arrow Type 1 S*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
TBM	2D	Point	PM	MN	TempBenchMark	*Temp Bench Mark*
TBRP	2D	Point	TR	SG	TimberPole	*Timber Pole*
TBTH	2D	Point	UT	CM	TelephoneBooth	*Telephone Booth*
TBUT	2D	Point	RD	MK	TrafficButton	*Traffic Button*
TBX	2D	Point	UT	CM	TelephoneBox	*Telephone Box*
TCP	2D	Point	PM	MN	TempControlPoint	*Temp Control Point*
TELPD	2D	Point	UT	CM	TelephonePedestal	*Telephone Pedestal*
TFRMR	2D	Point	UT	PW	Transformer	*Transformer*
TH	3D	Line	TP	NT	Thalweg	*Thalweg*
TL	3D	Line	TP	NT	TreeLine3D	*Tree Line 3D*
TL2D	2D	Line	TP	NT	TreeLine	*Tree Line*
TLET	2D	Point	RD	MK	OnlySymbol	*Only Symbol*
TNAI	2D	Point	DR	ST	AreaInletTunnel	*Area Inlet Tunnel*
TNBAT	2D	Line	RD	BR	BarrierTopTunnel	*Barrier Top Tunnel*
TNBF	2D	Line	RD	BR	BarrierFaceTunnel	*Barrier Face Tunnel*
TNCB	2D	Point	DR	ST	CatchBasinTunnel	*Catch Basin Tunnel*
TNCBT	2D	Line	RD	CG	CurbTopTunnel	*Curb Top Tunnel*
TNCF	2D	Line	RD	CG	CurbFaceTunnel	*Curb Face Tunnel*
TNCFTI	2D	Line	RD	CG	CurbTrafficIsFaceTunnel	*Curb Traffic Island Face Tunnel*
TNCL	2D	Line	ST	BG	TunnelCenterLine	*Tunnel Center Line*
TND	2D	Point	DR	ST	DrainTunnel	*Drain Tunnel*
TNGI	2D	Point	DR	ST	GrateInletTunnel	*Grate Inlet Tunnel*
TNGR	2D	Line	RD	BR	GuardRailTunnel	*Guard Rail Tunnel*
TNLMT	2D	Line	ST	BG	TunnelLimits	*Tunnel Limits*
TNMH	2D	Point	DR	ST	ManholeTunnel	*Manhole Tunnel*
TNPB	2D	Line	BL	LN	PvmntBreakTunnel	*Pvmnt Break Tunnel*
TNRAIL	2D	Line	ST	BG	TunnelRail	*Tunnel Rail*
TNSC	2D	Point	ST	BG	TunnelSupportColumn	*Tunnel Support Column*
TNSF	2D	Point	TR	SG	Transformer	*Transformer*
TNSW	2D	Line	RD	CG	SidewalkTunnel	*Sidewalk Tunnel*
TNSWB	2D	Line	RD	CG	SidewalkBackTunnel	*Sidewalk Back Tunnel*
TP	2D	Point	UT	CM	TelephonePole	*Telephone Pole*
TPL	3D	Line	BL	LN	TopographyLimit	*Topography Limit*
TPLC	3D	Line	BL	LN	TopographyLimitClosed	*Topography Limit Closed*
TPOL	2D	Point	TR	IL	TimberPole	*Timber Pole*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
TRAIL	3D	Line	TP	MM	Trail	*Trail*
TRCAN	2D	Point	TR	SN	TrussCantilever	*Truss Cantilever*
TRF	3D	Line	BL	LN	TransverseFeature	*Transverse Feature*
TRFCB	2D	Point	TR	TS	TransformerCabinet	*Transformer Cabinet*
TRSGBG	2D	Point	TR	SN	TrussSignBridge	*Truss Sign Bridge*
TS	3D	Line	TP	NT	TidalShoreline	*Tidal Shoreline*
TSB	2D	Point	TR	SG	SignalBoxUnknown	*Signal Box Unknown*
TSL	2D	Point	TR	SG	SignalLoopUnknown	*Signal Loop Unknown*
TTCAB	2D	Point	TR	TS	TerminalCabinet	*Terminal Cabinet*
TUN	2D	Line	ST	BG	Tunnel	*Tunnel*
TVCB	2D	Point	TR	TS	CCTVControlCabinet	*CCTV Control Cabinet*
TWLT	3D	Line	RD	MK	LineTwoWayLtTurn	*Line Two Way Lt Turn*
TWLTDN	2D	Line	RD	MK	LineTwoWayLtTurnDNC	*Line Two Way Lt Turn DNC*
UBX	2D	Point	UT	GU	UtilityBox	*Utility Box*
UCAB	2D	Line	UT	CM	UndGndCableTV	*Under Ground Cable TV*
UCABDA	2D	Line	UT	CM	UndGndCableTVDeactive	*Under Ground Cable TV Deactive*
UCB	2D	Point	UT	CM	UndGndCableBox	*Under Ground Cable Box*
UCL	2D	Line	UT	CM	UndGndCommLine	*Under Ground Communication Line*
UCP	2D	Point	TR	SG	UtilityCompanyPedestal	*Utility Company Pedestal*
UDL	2D	Point	TR	IL	LuminaireUnderdeck	*Luminaire Underdeck*
UDRL	2D	Line	DR	PP	UnderDrainLine	*Under Drain Line*
UDRLDA	2D	Line	DR	PP	UnderDrainLineDeactive	*Under Drain Line Deactive*
UGUTSTR	2D	Line	UT	GU	UnderGndUtilityStructure	*Under Ground Utility Structure*
ULOBJ	2D	Line	TP	NT	UnknownLinearObject	*Unknown Linear Object*
ULOBJCT	2D	Line	TP	MM	UnknownLinearObject	*Unknown Linear Object*
UMP	2D	Point	UT	GU	UtilityMarkerPost	*Utility Marker Post*
UOBJ	2D	Point	TP	NT	UnknownObject	*Unknown Object*
UOBJCT	2D	Point	TP	MM	UnknownObject	*Unknown Object*
UOFC	2D	Line	UT	CM	UndGndFiberOptic	*Under Ground Fiber Optic*
UOFCDA	2D	Line	UT	CM	UndGndFiberOpticDeactive	*Under Ground Fiber Optic Deactive*
UP	2D	Point	UT	GU	UtilityPole	*Utility Pole*
UPD	2D	Point	UT	CM	UnknownPedestal	*Unknown Pedestal*
UPOW	2D	Line	UT	PW	UndGndPowerLine	*Under Ground Power Line*
UPOWDA	2D	Line	UT	PW	UndGndPowerLineDeactive	*Under Ground Power Line Deactive*

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Field Code	2D/3D	P/L	Cat.	Sub-Cat.	Element Name	*Description*
USHLD	2D	Point	TR	SN	USRouteShield	*US Route Shield*
UST	2D	Line	DR	PP	StormSewerLine	*Storm Sewer Line*
USTDA	2D	Line	DR	PP	StormSewerLineDeactive	*Storm Sewer Line Deactive*
UTANK	2D	Point	UT	WT	UndGndTank	*Under Ground Tank*
UTB	2D	Point	UT	CM	UndGndTelephoneBox	*Under Ground Telephone Box*
UTEL	2D	Line	UT	CM	UndGndTelephoneCable	*Under Ground Telephone Cable*
UUDA	2D	Line	UT	MT	UndGndUtilMultiDeactive	*Under Ground Utilities Multiple Deactive*
UULINE	2D	Line	UT	GU	UnderGndUtilityLine	*Under Ground Utility Line*
UULINED	2D	Line	UT	GU	UndGndUtilityLineDeactive	*Under Ground Utility Line Deactive*
UUM	2D	Line	UT	MT	UndGndUtilitiesMulti	*Under Ground Utilities Multiple*
VACNTRL	2D	Point	EV	IR	ValveAutoControl	*Valve Auto Control*
VAULT	2D	Point	UT	GU	UtilityVault	*Utility Vault*
VAULTC	2D	Point	UT	CM	UndGndCommunicationVault	*Under Ground Communication Vault New*
VAULTP	2D	Point	UT	PW	UndGndPowerVault	*Under Ground Power Vault*
VAULTW	2D	Point	UT	WT	UndGndWaterVault	*Under Ground Water Vault*
VB	2D	Point	UT	GU	Valvebox	*Valve Box*
VBALL	2D	Point	EV	IR	ValveBall	*Valve Ball*
VBSS	2D	Point	UT	SS	ValveBoxSanSewer	*Valve Box San Sewer*
VCP	2D	Point	PM	PH	PhotoVertControlPoint	*Photo Vertical Control Point*
VDC	2D	Point	EV	IR	ValveDoubleCheck	*Valve Double Check*
VENT	2D	Point	UT	GU	Vent	*Vent*
VENTG	2D	Line	TP	MM	VentGrate	*Vent Grate*
VG	2D	Point	UT	GS	ValveBoxGas	*Valve Box Gas*
VGATE	2D	Point	EV	IR	ValveGate	*Valve Gate*
VMS	2D	Point	TR	TS	VMSOverhead	*VMS Overhead*
VMSCB	2D	Point	TR	TS	VMSControlCabinet	*VMS Control Cabinet*
VMSSH	2D	Point	TR	TS	VMSShoulder	*VMS Shoulder*
VRA	2D	Point	UT	WT	ValveRelease	*Valve Release*
VW	2D	Point	UT	WT	ValveBoxWater	*Valve Box Water*
WAT	2D	Line	UT	WT	WaterLine	*Water Line*
WATCHN	2D	Line	TP	MM	WaterwayChannel	*Waterway Channel*
WATDA	2D	Line	UT	WT	WaterLineDeactive	*Water Line Deactive*
WC	3D	Line	RD	CG	CurbWoodenFace	*Curb Wooden Face*
WE	3D	Line	TP	NT	WaterEdge	*Water Edge*

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WEIR	3D	Line	TP	MM	Weir	*Weir*
WELL	2D	Point	TP	MM	Well	*Well*
WL	3D	Line	RD	MK	LineWide	*Line Wide*
WLB	2D	Line	EV	WL	BndryWetland	*Bndry Wetland*
WLDNC	2D	Line	RD	MK	LineWideDNC	*Line Wide DNC*
WLF	3D	Point	EV	WL	Flag	*Flag*
WLMH	2D	Line	EV	WL	WaterLineMeanHigh	*Water Line Mean High*
WLMHH	2D	Line	EV	WL	WaterLineMeanHigherHigh	*Water Line Mean Higher High*
WLML	2D	Line	EV	WL	WaterLineMeanLow	*Water Line Mean Low*
WLMLL	2D	Line	EV	WL	WaterLineMeanLowerLow	*Water Line Mean Lower Low*
WLS	3D	Line	RD	MK	LineSkipWide	*Line Skip Wide*
WLSDNC	2D	Line	RD	MK	LineSkipWideDNC	*Line Skip Wide DNC*
WLSF	2D	Point	EV	WL	WetlandSampleFlag	*Wetland Sample Flag*
WMB	2D	Point	UT	WT	WaterMeterBox	*Water Meter Box*
WPCK	2D	Point	TR	IL	WallpackLight	*Wallpack Light*
WTANK	2D	Point	TP	MM	WaterTank	*Water Tank*
WTT	2D	Point	UT	CM	WoodenTransmissionTower	*Wooden Transmission Tower*
WTTP	2D	Point	UT	PW	WoodenTransmissionTower	*Wooden Transmission Tower*
WW	3D	Line	DR	ST	WingWall	*Wing Wall*
WWB	3D	Line	DR	ST	WingWallBottom	*Wing Wall Bottom*
WWT	3D	Line	DR	ST	WingWallTop	*Wing Wall Top*
XHARC	2D	Point	TR	TS	HARControlCabinet	*HAR Control Cabinet*
YAHDa	2D	Point	RD	MK	YieldAheadSymbType1	*Yield Ahead Symbol Type 1*
YAHDb	2D	Point	RD	MK	YieldAheadSymbType2	*Yield Ahead Symbol Type 2*
YLDa	2D	Point	RD	MK	YieldSymbType1	*Yield Symbol Type 1*
YLDb	2D	Point	RD	MK	YieldSymbType2	*Yield Symbol Type 2*

S3.01 General
S3.02 Design Deliverable Types
S3.02 Alphabetic Listing of Symbols

S3.01 General

This section describes the symbology used for design/engineering tasks other than those listed in Symbology 4 and Symbology 5 of this manual. These non-deliverable design application elements are not formal standards; they simply provide for symbology consistency across design projects.

S3.02 Design Deliverable Types

InRoads preferences and styles supporting WSDOT standard conventions and deliverables are provided by the WSDOT_Standards.xin file.

Deliverable data elements (geometry, surface, corridor, etc.) shall have the appropriate symbology assigned to comply with display standards.

S3.02 (1) Cross Sections

Cross section symbology and command preferences are available in the standard WSDOT resources.

InRoads cross section preferences are provided by the WSDOT resources via the WSDOT_Standards.xin file. These preferences are listed as Unit (Base=USFt, Sheet=Inches)_Drawing Scale, such as Base_10 for USFt file with a cross section scale of 10'. In conjunction with matching *InRoads > Project Defaults > Factor* settings, these preferences result in appropriately scaled WSDOT cross section sheet border and associated basic annotation – station, elevation, offset.

Cross section related processes are covered in related tech notes found at www.wsdot.wa.gov/design/cae/technotes.htm.

S3.02(2) Profiles

Profile symbology and command preferences are available in the standard WSDOT resources.

In conjunction with matching *InRoads > Project Defaults > Factor* settings, the WSDOT preference provides the appropriate symbology to display surface and vertical alignment data in a single profile window. It does not include plans preparation sheet borders.

S3.03 Alphabetic Listing of Symbols

Below is a list of feature styles/levels that when assigned appropriately to surfaces and roadway component features will result in consistent display across WSDOT projects.

Category	Sub Category	Description
XS	SF	ATB
XS	SF	CCP
XS	SF	CSBC
XS	SF	CSTC
XS	SF	Existing
XS	SF	Exterior Boundary
XS	SF	Finished
XS	SF	HMA
XS	SF	Material1
XS	SF	Material2
XS	SF	Material3
XS	SF	Material4
XS	SF	Material5
XS	SF	Perimeter
XS	SF	Quantities Cut
XS	SF	Quantities Fill
XS	SF	Quantities Other
XS	SF	ROCKCAP
XS	SF	Subgrade
XS	SF	Cross Section Border

S4.01 General
S4.02 Deliverable Types
S4.03 Standard Weights & Styles
S4.04 Alphabetical Listing of Standard Symbols
S4.05 Standard Symbols

S4.01 General

This section describes standard symbols and conventions for the production of WSDOT deliverable plan sheets described in the Plans Preparation Manual.

The various geometric and design features commonly used in drafting plans have been assigned to the different CAD levels. These levels are arranged by category (or "parent" code), then by subcategory (or "child" code), then by Item. Included are the CAD symbology names, with associated applicable cell name, CAD level, color, line style, and line weight.

S4.02 Deliverable Types

S4.02(1) Right of Way Plans

Right of Way (R/W) plans are used to describe the land boundaries for which the WSDOT is responsible. This division describes standard symbols for the production of R/W Plan sheets as described in the *Plans Preparation Manual*.

- All measurements are in U.S. Survey Feet.
- The symbols and their measurements are shown at the correct size for plans plotted on 22-inch x 34-inch sheets.

S4.02(2) Record of Survey

Record of Survey (ROS) plans are used to describe the land boundaries for which the WSDOT is responsible. Applicable standard drafting symbology is included this division and supports production of Records of Survey as described in the *Plans Preparation Manual*.

- All measurements are in U.S. Survey Feet.
- The symbols and their measurements are shown at the correct size for plans plotted on 18-inch x 24-inch sheets.

S4.02(3) Monumetation Map

Monumetation Maps are used to describe the land boundaries for which the WSDOT is responsible. Applicable standard drafting symbology is included this division and supports production of Monumentation Maps as described in the *Plans Preparation Manual*.

- All measurements are in U.S. Survey Feet.
- The symbols and their measurements are shown at the correct size for plans plotted on 22-inch x 34-inch sheets.

S4.03 Standard Weights & Styles

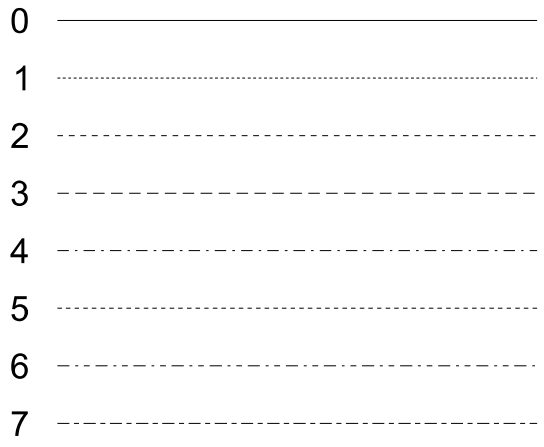
All items are shown at the size they will appear on an 22"x36" R/W plot. All leader lines and line terminators will be placed on the same level as descriptive text unless otherwise noted.

WSDOT Standard Line Weights

CAD

WSDOT Base Line Styles

The following line styles/codes are used for linear elements unless a WSDOT custom linestyle is called out.



S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
SH	PR	AccessApproachSchedBottom	*Access Approach Sched Bottom*
SH	PR	AccessApproachScheduleTop	*Access Approach Schedule Top*
SH	PR	AccessNotesBodyText	*Access Notes Body Text*
SH	PR	AccessNotesHeadingText	*Access Notes Heading Text*
SH	PR	AirLeaseSchedule	*Air Lease Schedule*
SH	PR	BasisofBearing	*Basis of Bearing*
RW	SC	BearingsText	*Bearings Text*
SH	PR	BeginEndPlanText	*Begin End Plan Text*
RD	ED	BikePathEdge	*Bike Path Edge*
ST	BG	Bridge	*Bridge*
ST	BG	BridgeNew	*Bridge New*
ST	BG	BridgeRWText	*Bridge RW Text*
TP	MM	Building2D	*Building 2D*
TP	MM	BuildingRoof	*Building Roof*
TP	MM	Canal	*Canal*
RW	SC	CenterofSection	*Center of Section*
RW	SC	CenterofSectionsText	*Center of Sections Text*
RW	PA	CityNamesText	*City Names Text*
RW	BD	CityRWBndry	*City RW Bndry*
RW	BD	CityRWBndryStaOffText	*City RW Bndry Sta Off Text*
RW	PA	CLineAccessRoad	*CLine Access Road*
AL	RW	CLineBikePath	*Center Line Bike Path*
AL	RW	ClineCityStreet	*CLine City Street*
AL	RW	CLineCountyRoad	*Center Line County Road*
AL	RW	CLinePedPath	*Center Line Pedestrian Path*
AL	RW	CLinePrivateRoad	*Center Line Private Road*
AL	RW	CLineRWCntrl	*Center Line RW Controlling*
AL	RW	CLineRWCntrlBearingsText	*Center Line RW Controlling Bearings Text*
AL	RW	CLineRWCntrlCurvePtCircle	*Center Line RW Controlling Curve Point Circle*
AL	RW	CLineRWCntrlGradeIntText	*Center Line RW Controlling Grade Intersection Te*
AL	RW	CLineRWCntrlLineDesText	*Center Line RW Controlling Line Designation Text*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
AL	RW	CLineRWCntrlMajorStaText	*Center Line RW Controlling Major Station Text*
AL	RW	CLineRWCntrlPCPIPTText	*Center Line RW Controlling PC PI PT Text*
AL	RW	CLineRWCntrlPItoPILine	*Center Line RW Controlling PI to PI Line*
AL	RW	CLineRWCntrlSRNoText	*Center Line RW Controlling SR Number Text*
AL	RW	CLineRWCntrlStaEquaText	*Center Line RW Controlling Station Equation Text*
AL	RW	CLineRWCntrlStationText	*Center Line RW Controlling Station Text*
AL	RW	CLineRWCntrlTics	*Center Line RW Controlling Tics*
AL	RW	CLineRWNonCntrlExNameText	*Center Line RW Non-controlling Existing Name T*
AL	RW	CLineRWNonCntrlPrNameText	*Center Line RW Controlling Proposed Name Text*
AL	RW	CLineRWNonCntrlEx	*Center Line RW Non-Controlling Existing*
AL	RW	CLineRWNonCntrlPr	*Center Line RW Non-Controlling Proposed*
AL	RW	CLineTrail	*Center Line Trail*
SH	GI	ClipLimits	*Clip Limits*
RW	SC	ClosingCornerFound	*Closing Corner Found*
RW	SC	ClosingCornerFoundNorth	*Closing Corner Found North*
RW	SC	ClosingCornerNotFound	*Closing Corner Not Found*
RW	SC	ClosingQuarterCornerN	*Closing Quarter Corner N*
RW	SC	ClosingQuarterCornerS	*Closing Quarter Corner S*
PM	MN	ControlPointNotFound	*Control Point Not Found*
RW	GB	CorpLimitLine	*Corp Limit Line*
RW	GB	CountyLine	*County Line*
RW	BD	CountyRWBndry	*County RW Bndry*
RW	BD	CountyRWBndryStaOffText	*County RW Bndry Sta Off Text*
SH	PR	CrossRefNoteMonMapText	*Cross Ref Note Mon Map Text*
SH	PR	CrossRefNoteRWPlanText	*Cross Ref Note RW Plan Text*
DR	ST	Culvert	*Culvert*
TP	MM	Dam	*Dam*
RW	SC	DescriptionsText	*Descriptions Text*
SH	GI	DestinationArrow	*Destination Arrow*
SH	GI	DestinationArrowRWText	*Destination Arrow RW Text*
TP	MM	Dike	*Dike*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
TP	MM	DistanceTie	*Distance Tie*
TP	MM	DistanceTieText	*Distance Tie Text*
RW	SC	DonationLandClaim	*Donation Land Claim*
RW	SC	DonationLandClaimsText	*Donation Land Claims Text*
DR	ST	DrainageStructuresRWText	*Drainage Structures RW Text*
UT	SS	Drainfield	*Drainfield*
UT	SS	DrainfieldDeactive	*Drainfield Deactive*
RD	ED	DrivewayGravelEdge	*Driveway Gravel Edge*
RD	ED	DrivewayPavedEdge	*Driveway Paved Edge*
RW	PA	ERParcelNumber	*ER Parcel Number*
RW	ES	EsmntControllingLine	*Esmnt Controlling Line*
RW	ES	EsmntLine	*Esmnt Line*
RW	ES	EsmntLineNew	*Easement Line New*
RW	ES	EsmntLineRR	*Esmnt Line RR*
RW	ES	EsmntPermitLineStaOffText	*Esmnt Permit Line Sta Off Text*
RW	ES	EsmntPermitsText	*Esmnt Permits Text*
RW	ES	EsmntPermitsTextNew	*Esmnt Permits Text New*
SH	PR	ExhibitANote	*Exhibit A Note*
RD	BR	FenceRWPlan	*Fence RW Plan*
RW	GB	ForestBndry	*Forest Boundary*
PM	MN	GlobalPositioningPoint	*Global Positioning Point*
RW	GB	GovtBndryText	*Government Boundary Text*
RW	SC	GovtLotIDText	*Government Lot ID Text*
PM	MN	GPPInstrumentStation	*GPP Instrument Station*
TP	NT	HighWaterLine	*High Water Line*
RW	BD	HighwayRWBndry	*Highway RW Bndry*
RW	BD	HighwayRWBndryCoincident	*Highway RW Bndry Coincident*
RW	BD	HighwayRWBndryNew	*Highway RW Bndry New*
RW	BD	HighwayRWBndrySOTextNew	*Highway RW Bndry SO Text New*
RW	BD	HighwayRWBndryStaOffText	*Highway RW Bndry Sta Off Text*
RW	PA	InterchangeNamesText	*Interchange Names Text*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
RW	BD	LAccessCoincidentRWLt	*LAccess Coincident RW Lt*
RW	BD	LAccessCoincidentRWRt	*LAccess Coincident RW Rt*
SH	PR	LaccessDesignationNote	*Laccess Designation Note*
SH	PR	LaccessEstablishNote	*Laccess Establish Note*
RW	BD	LAccessFloatingLtNew	*LAccess Floating Left New*
RW	BD	LAccessFloatingRtNew	*LAccess Floating Right New*
RW	BD	LAccessProposedRWLt	*LAccess Proposed RW Left*
RW	BD	LAccessProposedRWRt	*LAccess Proposed RW Right*
SH	PR	LaccessTentativeNote	*Laccess Tentative Note*
TP	NT	LakeEdge	*Lake Edge*
TP	NT	LargeBodyofWaterEdge	*Large Body of Water Edge*
SH	PR	LegendBlock	*Legend Block*
SH	PR	LegendBlockWithLAccess	*Legend Block With LAccess*
SH	GI	LineBreakLg	*Line Break Large*
SH	GI	LineBreakSm	*Line Break Small*
RW	PA	LotLine	*Lot Line*
RW	PA	LotNumbering	*Lot Numbering*
TP	MM	ManmadeTopographyRWText	*Manmade Topography RW Text*
SH	GI	MarkupAddInLine	*Markup Add In Line*
SH	GI	MarkupAddInText	*Markup Add In Text*
SH	GI	MarkupCommentLine	*Markup Comment Line*
SH	GI	MarkupCommentText	*Markup Comment Text*
SH	GI	MarkupStrikeThruSwiggle	*Markup Strike Thru Swiggle*
SH	GI	MatchLine	*Match Line*
SH	GI	MatchLineText	*Match Line Text*
RW	SC	MeanderCornerFound	*Meander Corner Found*
RW	SC	MeanderCornerNotFound	*Meander Corner Not Found*
RW	SC	MeanderLine	*Meander Line*
RW	SC	MeanderLineText	*Meander Line Text*
RW	BD	MetesandBoundsArrow	*Metes and Bounds Arrow*
RW	BD	MetesAndBoundsRWText	*Metes And Bounds RW Text*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
RW	BD	MetesAndBoundsSundryText	*Metes And Bounds Sundry Text*
PM	MN	MonumentCalcd	*Monument Calculated*
PM	MN	MonumentFound	*Monument Found*
PM	MN	MonumentNew	*Monument New*
PM	MN	MonumentNotFound	*Monument Not Found*
PM	MN	MonumentText	*Monument Text*
PM	MN	MonumentTextNew	*Monument Text New*
RW	PA	NCRParcelNumber	*NCR Parcel Number*
SH	GI	NorthArrow(RotatetoActive)	*North Arrow (Rotate to Active)*
SH	GI	NorthArrow(RotatetoReference)	*North Arrow (Rotate to Reference)*
RW	PA	NWRParcelNumber	*NWR Parcel Number*
RW	PA	ORParcelNumber	*OR Parcel Number*
TP	MM	OrchardOrVineyard	*Orchard Or Vineyard*
SH	PR	OwnershipBlockBottom	*Ownership Block Bottom*
SH	PR	OwnerShipBlockTop	*OwnerShip Block Top*
RW	PA	OwnershipDots	*Ownership Dots*
RW	PA	OwnershipTie	*Ownership Tie*
RW	PA	ParcelNoText	*Parcel Number Text*
RW	GB	ParkBndry	*Park Boundary*
RD	ED	PedPathEdge	*Pedestrian Path Edge*
RW	ES	PermitHarborLine	*Permit Harbor Line*
RW	ES	PermitLine	*Permit Line*
RW	ES	PermitLineNew	*Permit Line New*
TP	NT	PondEdge	*Pond Edge*
PM	MN	PrimaryControlPoint	*Primary Control Point*
RW	PA	PropertyLine	*Property Line*
RW	SC	QuarterCornerFoundEW	*Quarter Corner Found EW*
RW	SC	QuarterCornerFoundNS	*Quarter Corner Found NS*
RW	SC	QuarterCornerNotFoundEW	*Quarter Corner Not Found EW*
RW	SC	QuarterCornerNotFoundNS	*Quarter Corner Not Found NS*
RW	SC	QuarterSectionLine	*Quarter Section Line*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
RW	SC	RangeLine	*Range Line*
RW	SC	RangeLinesText	*Range Lines Text*
SH	PR	RecordingCertificate	*Recording Certificate*
RW	GB	ReservationBndry	*Reservation Boundary*
TP	MM	Reservoir	*Reservoir*
SH	GI	RevisionAddInLine	*Revision Add In Line*
SH	GI	RevisionAddInText	*Revision Add In Text*
SH	PR	RevisionBlock	*Revision Block*
SH	GI	RevisionNoteFlag	*Revision Note Flag*
SH	GI	RevisionStrikeThruDoubleLine	*Revision Strike Thru Double Line*
SH	GI	RevisionStrikeThruSglLine	*Revision Strike Thru Single Line*
SH	GI	RevisionStrikeThruSwiggle	*Revision Strike Thru Swiggle*
TP	NT	RiverEdge	*River Edge*
SH	PR	RoadApproachTypeANote	*Road Approach Type A Note*
SH	PR	RoadApproachTypeBNote	*Road Approach Type B Note*
SH	PR	RoadApproachTypeCNote	*Road Approach Type C Note*
SH	PR	RoadApproachTypeDNote	*Road Approach Type D Note*
SH	PR	RoadApproachTypeENote	*Road Approach Type E Note*
SH	PR	RoadApproachTypeFNote	*Road Approach Type F Note*
RD	ED	RoadwayETWGravel	*Roadway ETW Gravel*
RD	ED	RoadwayETWPaved	*Roadway ETW Paved*
RD	MC	RoadwayNamesText	*Roadway Names Text*
TP	MM	RRCenterTracks	*RR Center Tracks*
RW	BD	RRRWBndry	*RR RW Boundary*
RW	BD	RRRWStaOffText	*RR RW Sta Off Text*
ST	BG	RRStructure	*RR Structure*
TP	MM	RRText	*RR Text*
SH	PR	RWCurveDataBlock	*RW Curve Data Block*
RW	BD	RWMarkerCalcd	*RW Marker Calculated*
RW	BD	RWMarkerFound	*RW Marker Found*
RW	BD	RWMarkerNotFound	*RW Marker Not Found*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
SH	PR	RWPLSStamp	*RW PLS Stamp*
SH	PR	RWTotalCurveDataBlock	*RW Total CurveData Block*
SH	GI	ScaleBar100	*Scale Bar 100*
SH	GI	ScaleBar1000	*Scale Bar 1000*
SH	GI	ScaleBar20	*Scale Bar 20*
SH	GI	ScaleBar200	*Scale Bar 200*
SH	GI	ScaleBar2000	*Scale Bar 2000*
SH	GI	ScaleBar40	*Scale Bar 40*
SH	GI	ScaleBar50	*Scale Bar 50*
SH	GI	ScaleBar500	*Scale Bar 500*
RW	PA	SCRParcelNumber	*SCR Parcel Number*
RW	SC	SectionCornerFound	*Section Corner Found*
RW	SC	SectionCornerNotFound	*Section Corner Not Found*
RW	SC	SectionCornerNumberText	*Section Corner Number Text*
RW	SC	SectionID	*Section ID*
RW	SC	SectionLine	*Section Line*
SH	PR	SheetAccessHearing	*Sheet Access Hearing*
SH	PR	SheetExhibitMap	*Sheet Exhibit Map*
SH	PR	SheetParcelAcquisition	*Sheet Parcel Acquisition*
SH	PR	SheetRecordOfSurvey	*Sheet Record Of Survey*
SH	PR	SheetRW	*Sheet RW*
SH	PR	SheetRWBorderOnly	*Sheet RW Border Only*
SH	PR	SheetRWLimitedAccess	*Sheet RW Limited Access*
SH	PR	SheetSundrySite	*Sheet Sundry Site*
SH	PR	SheetVicinityMap	*Sheet Vicinity Map*
RD	ED	ShoulderGravelEdge	*Shoulder Gravel Edge*
RD	ED	ShoulderPavedEdge	*Shoulder Paved Edge*
RW	BD	SiteRWBndry	*Site RW Bndry*
RW	BD	SiteRWBndryCoincident	*Site RW Bndry Coincident*
RW	BD	SiteRWBndryNew	*Site RW Bndry New*
RW	BD	SiteRWNameText	*Site RW Name Text*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
RW	BD	SiteRWStaOffText	*Site RW Sta Off Text*
RW	SC	SixteenthSectionLine	*Sixteenth Section Line*
RW	GB	StateBndry	*State Boundary*
SH	PR	StatePlaneCoordSystem	*State Plane Coord System*
UT	CM	SteelTransmissionTower	*Steel Transmission Tower*
EV	WL	StormWaterTrtmntRWPlan	*Storm Water Trtmnt RW Plan*
EV	WL	StormWaterTrtmntRWPlanNew	*Storm Water Trtmnt RW Plan New*
TP	NT	StreamNonScalable	*Stream Non Scalable*
TP	NT	StreamScaleableEdge	*Stream Scaleable Edge*
ST	BG	Structure	*Structure*
RW	PA	SubdivisionBndry	*Subdivision Bndry*
RW	PA	SubdivisionsNamesText	*Subdivisions Names Text*
RW	ES	SubterraneanEsmntLine	*Subterranean Easement Line*
RW	ES	SubterraneanEsmntLineNew	*Subterranean Easement Line New*
SH	PR	SupplementalAccessNote1	*Supplemental Access Note 1*
SH	PR	SupplementalAccessNote2	*Supplemental Access Note 2*
SH	PR	SupplementalAccessNote21	*Supplemental Access Note 21*
SH	PR	SupplementalAccessNote3	*Supplemental Access Note 3*
SH	PR	SupplementalAccessNote4	*Supplemental Access Note 4*
SH	PR	SupplementalAccessNote5	*Supplemental Access Note 5*
SH	PR	SupplementalAccessNote9	*Supplemental Access Note 9*
RW	PA	SurplusPropertyBndry	*Surplus Property Boundary*
RW	PA	SurplusPropertyBndryNote	*Surplus Property Boundary Note*
SH	PR	SurveyorCertificate	*Surveyor Certificate*
RW	PA	SWRParcelNumber	*SWR Parcel Number*
RW	ES	TempConstrEsmntLine	*Temp Construction Easement Line*
RW	ES	TempConstrEsmntLineNew	*Temp Construction Easement Line New*
RW	SC	TownshipLine	*Township Line*
RW	SC	TownshipRangeLineText	*Township Range Line Text*
SH	GI	TownshipRangeTopSheetText	*Township Range Top Sheet Text*
SH	GI	TrafficMvmntArrow	*Traffic Movement Arrow Left*

S4.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Right of Way (R/W) symbology by element type. The name of the element type is prepended with a Category code and Sub-Category code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
SH	GI	TrafficMvmntArrow	*Traffic Movement Arrow Opposing*
SH	GI	TrafficMvmntArrow	*Traffic Movement Arrow Right*
ST	BG	Tunnel	*Tunnel*
ST	BG	TunnelRWText	*Tunnel RW Text*
RW	BD	TurnbackLine	*Turnback Line*
RW	BD	TurnbackRelinquishText	*Turnback Relinquish Text*
RW	BD	UtilityRWBndry	*Utility RW Bndry*
RW	BD	UtilityRWBndryCoincident	*Utility RW Bndry Coincident*
RW	BD	UtilityRWBndryNew	*Utility RW Bndry New*
RW	BD	UtilityRWStaOffText	*Utility RW Sta Off Text*
SH	PR	VerificationNotes	*Verification Notes*
SH	PR	VicinityMapBodyText	*Vicinity Map Body Text*
SH	PR	VicinityMapHeadingText	*Vicinity Map Heading Text*
TP	NT	WaterPondLakeResRWText	*Water Pond Lake Res RW Text*
TP	NT	WaterTidalShoreLgBodyText	*Water Tidal Shore Large Body Text*
TP	MM	Well	*Well*
EV	WL	WetlandMitigationRWP	*Wetland Mitigation RWP*
EV	WL	WetlandMitigationRWPNew	*Wetland Mitigation RWP New*
EV	WL	WetlandsRWText	*Wetlands RW Text*
UT	CM	WoodenTransmissionTower	*Wooden Transmission Tower*
RW	PA	WSDOTParcelNumber	*WSDOT Parcel Number*

S4.05 Standard Symbols

All items are shown at the size they will appear on an 22"x36" R/W plot.

AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Center Line Bike Path (AL_RW_CLineBikePath)	2 / 3 114 / Line	
Center Line County Road (AL_RW_CLineCountyRoad)	1 / Custom 18 / Line	
Center Line Pedestrian Path (AL_RW_CLinePedPath)	2 / 3 114 / Line	
Center Line Private Road (AL_RW_CLinePrivateRoad)	2 / 3 114 / Line	
Center Line RW Controlling (AL_RW_CLineRWCntrl)	5 / 0 2 / Line	
Center Line RW Controlling Bearings Text (AL_RW_CLineRWCntrlBearingsText)	0 / 0 2 / Text Text Size = 0.12 Font = arialbd / 217	**N 2°35'59" E S 88°55'25" W**
Center Line RW Controlling Curve Point Circle (AL_RW_CLineRWCntrlCurvePtCircle)	0 / 0 2 / Cell	R 0.05"

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

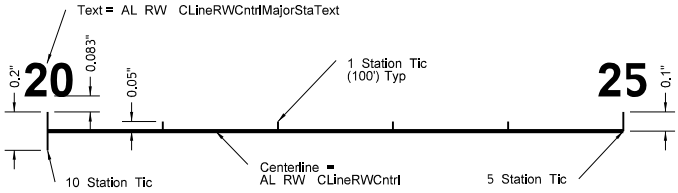
AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Center Line RW Controlling Grade Intersection Text (AL_RW_CLineRWCntrlGradeIntText) Text Size = 0.12 Font = arial / 200	0 / 0 2 / Text	GRADE INTERSECTION
Center Line RW Controlling Line Designation Text (AL_RW_CLineRWCntrlLineDesText) Text Size = 0.16 Font = arialbd / 217	0 / 0 2 / Text	
Center Line RW Controlling Major Station Text (AL_RW_CLineRWCntrlMajorStaText) Text SIze = 0.18 Font = arialbd / 217	0 / 0 2 / Text	**10**
Center Line RW Controlling PC PI PT Text (AL_RW_CLineRWCntrlPCPIPTText) Text Size = 0.12 Font = arial / 200	0 / 0 2 / Text	B 10+68.42 P.C.
Center Line RW Controlling PI to PI Line (AL_RW_CLineRWCntrlPItoPILine)	0 / 2 2 / Line	
Center Line RW Controlling Proposed Name Text (AL_RW_CLineRWNonCntrlPrNameText) Text SIze = 0.16 Font = arial / 200	0 / 0 82 / Text	L LINE
Center Line RW Controlling SR Number Text (AL_RW_CLineRWCntrlSRNoText) Text Size = 0.18 Font = arialbd / 217	0 / 0 2 / Text	**SR 104**

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Center Line RW Controlling Station Equation Text (AL_RW_CLineRWCntrlStaEquaText) Text Size = 0.12 Font = arial / 200	0 / 0 2 / Text	B 10+68.42 P.O.T. BK. =
Center Line RW Controlling Station Text (AL_RW_CLineRWCntrlStationText) Text Size = 0.12 Font = arial / 200	0 / 0 2 / Text	B 10+68.42 P.C.
Center Line RW Controlling Tics (AL_RW_CLineRWCntrlTics)	2 / 0 2 / Line	
Center Line RW Non-Controlling Existing (AL_RW_CLineRWNonCntrlEx)	4 / Custom 82 / Line	
Center Line RW Non-controlling Existing Name Text (AL_RW_CLineRWNonCntrlExNameText) Text Size = 0.16 Font = arial / 200	0 / 0 82 / Text	L LINE
Center Line RW Non-Controlling Proposed (AL_RW_CLineRWNonCntrlPr)	4 / Custom 82 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / byLevel Color / ByLevel Style / Element Type	Example
Center Line Trail (AL_RW_CLineTrail)	2 / 114 / 3 / Line	
CLine City Street (AL_RW_ClineCityStreet)	1 / 18 / Custom / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

DR ST Drainage - Structures

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Culvert (DR_ST_Culvert)	0 / 2 / 81 / Line	
Drainage Structures RW Text (DR_ST_DrainageStructuresRWText) Text Size = 0.1 Font = arial / 200	0 / 0 / 17 / Text	CULVERT

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Storm Water Trtmnt RW Plan (EV_WL_StormWaterTrtmntRWPlan)	5 / 3 55 / Line	
Storm Water Trtmnt RW Plan New (EV_WL_StormWaterTrtmntRWPlanNew)	5 / 0 41 / Line	
Wetland Mitigation RWP (EV_WL_WetlandMitigationRWP)	5 / 3 55 / Line	
Wetland Mitigation RWP New (EV_WL_WetlandMitigationRWPNew)	5 / 0 41 / Line	
Wetlands RW Text (EV_WL_WetlandsRWText) Text Size = 0.2 Font = arialbd / 217	0 / 0 55 / Text	**WETLANDS**

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

PM MN Photo, Monuments and Control - Monuments and Control

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Control Point Not Found (PM_MN_ControlPointNotFound)	1 / 0 / 28 / Cell	
Global Positioning Point (PM_MN_GlobalPositioningPoint)	0 / 0 / 28 / Cell	
GPP Instrument Station (PM_MN_GPPInstrumentStation)	0 / 0 / 28 / Cell	
Monument Calculated (PM_MN_MonumentCalcd)	0 / 0 / 60 / Cell	
Monument Found (PM_MN_MonumentFound)	0 / 0 / 60 / Cell	
Monument New (PM_MN_MonumentNew)	0 / 0 / 44 / Cell	
Monument Not Found (PM_MN_MonumentNotFound)	4 / 0 / 60 / Cell	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

PM MN Photo, Monuments and Control - Monuments and Control

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Monument Text (PM_MN_MonumentText) Text Size = 0.1 Font = arial / 200	0 / 0 60 / Text	GP 11395-6
Monument Text New (PM_MN_MonumentTextNew) Text Size = 0.1 Font = arialbd / 217	0 / 0 44 / Text	**GP 11395-6**
Primary Control Point (PM_MN_PrimaryControlPoint)	1 / 0 28 / Cell	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RD BR Roadway Features - Barriers

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Fence RW Plan (RD_BR_FenceRWPlan)	0 / Custom 157 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RD ED Roadway Features - Edges

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Bike Path Edge (RD_ED_BikePathEdge)	0 / 2 157 / Line	
Driveway Gravel Edge (RD_ED_DrivewayGravelEdge)	0 / 5 125 / Line	
Driveway Paved Edge (RD_ED_DrivewayPavedEdge)	0 / 2 125 / Line	
Pedestrian Path Edge (RD_ED_PedPathEdge)	0 / 2 157 / Line	
Roadway ETW Gravel (RD_ED_RoadwayETWGravel)	0 / 5 29 / Line	
Roadway ETW Paved (RD_ED_RoadwayETWPaved)	0 / 2 29 / Line	
Shoulder Gravel Edge (RD_ED_ShoulderGravelEdge)	0 / 5 93 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RD ED Roadway Features - Edges

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Shoulder Paved Edge (RD_ED_ShoulderPavedEdge)	0 / 2 / 93 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RD MC Roadway Features - Miscellaneous

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Roadway Names Text (RD_MC_RoadwayNamesText) Text Size = 0.1 Font = arial / 200	0 / 0 29 / Text	CHANCE ROAD

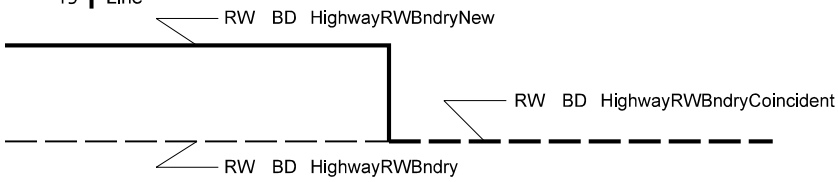
S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
City RW Bndry (RW_BD_CityRWBndry)	2 / 3 / 83 / Line	
City RW Bndry Sta Off Text (RW_BD_CityRWBndrySta OffText)	0 / 0 / 83 / Text Text Size = 0.1 Font = arial / 200	MR 10+88.03 (50' RT.)
County RW Bndry (RW_BD_CountyRWBndry)	2 / 3 / 83 / Line	
County RW Bndry Sta Off Text (RW_BD_CountyRWBndrySta OffText)	0 / 0 / 115 / Text Text Size = 0.1 Font = arial / 200	MR 10+88.03 (50' RT.)
Highway RW Bndry (RW_BD_HighwayRWBndry)	2 / Custom / 19 / Line	
Highway RW Bndry Coincident (RW_BD_HighwayRWBndryCoincident)	5 / Custom / 19 / Line	

EXAMPLE OF RIGHT OF WAY LINE



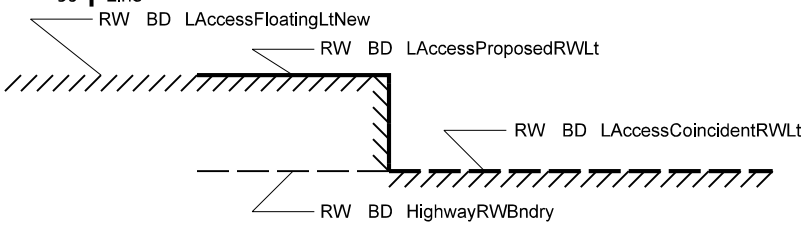
S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Highway RW Bndry New (RW_BD_HighwayRWBndryNew)	5 / 0 3 / Line	
Highway RW Bndry SO Text New (RW_BD_HighwayRWBndrySOTextNew) Text Size = 0.1 Font = arial / 200	0 / 0 3 / Text	MR 10+88.03 (50' RT.)
Highway RW Bndry Sta Off Text (RW_BD_HighwayRWBndryStaOffText) Text SIze = 0.1 Font = arial / 200	0 / 0 19 / Text	MR 10+88.03 (50' RT.)
LAccess Coincident RW Lt (RW_BD_LAccessCoincidentRWLt)	5 / Custom 35 / Line	
LAccess Coincident RW Rt (RW_BD_LAccessCoincidentRWRt)	5 / Custom 35 / Line	
LAccess Floating Left New (RW_BD_LAccessFloatingLtNew)	2 / Custom 35 / Line	

EXAMPLE OF LIMITED ACCESS
(Left shown Right similar)



S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
LAccess Floating Right New (RW_BD_LAccessFloatingRtNew)	2	Custom	
	35	Line	
LAccess Proposed RW Left (RW_BD_LAccessProposedRWLt)	5	Custom	
	35	Line	
LAccess Proposed RW Right (RW_BD_LAccessProposedRWRt)	5	Custom	
	35	Line	
Metes and Bounds Arrow (RW_BD_MetesandBoundsArrow)	2	2	
	19	Cell	
Metes And Bounds RW Text (RW_BD_MetesAndBoundsRWText)	0	0	R= 268.12' L= 412.34'
Text Size = 0.1 Font = arial / 200	19	Text	
Metes And Bounds Sundry Text (RW_BD_MetesAndBoundsSundryText)	0	0	352.11' N 88°12'13" W
Text SIze = 0.12 Font = arial / 200	19	Text	
RR RW Boundary (RW_BD_RRRWBndry)	2	Custom	
	147	Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
RR RW Sta Off Text (RW_BD_RRRWStaOffText) Text Size = 0.1 Font = arial / 200	0 / 0 147 / Text	MR 10+88.03 (50' RT.)
RW Marker Calculated (RW_BD_RWMarkerCalcd)	0 / 0 19 / Cell	□
RW Marker Found (RW_BD_RWMarkerFound)	0 / 0 19 / Cell	■
RW Marker Not Found (RW_BD_RWMarkerNotFound)	0 / 0 19 / Cell	◨
Site RW Bndry (RW_BD_SiteRWBndry)	2 / Custom 115 / Line	— — — — — — — —
Site RW Bndry Coincident (RW_BD_SiteRWBndryCoincident)	5 / Custom 99 / Line	— — — — — — — —
Site RW Bndry New (RW_BD_SiteRWBndryNew)	5 / 0 99 / Line	———————————

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Site RW Name Text (RW_BD_SiteRWNameText) Text Size = 0.2 Font = arialbd / 217	0 / 0 115 / Text	**PIT SITE**
Site RW Sta Off Text (RW_BD_SiteRWStaOffText) Text Size = 0.1 Font = arial / 200	0 / 0 147 / Text	MR 10+88.03 (50' RT.)
Turnback Line (RW_BD_TurnbackLine)	5 / 0 51 / Line	
Turnback Relinquish Text (RW_BD_TurnbackRelinquishText) Text Size = 0.12 Font = arial / 200	0 / 0 51 / Text	TURNBACK LINE
Utility RW Bndry (RW_BD_UtilityRWBndry)	3 / Custom 147 / Line	
Utility RW Bndry Coincident (RW_BD_UtilityRWBndryCoincident)	5 / Custom 131 / Line	
Utility RW Bndry New (RW_BD_UtilityRWBndryNew)	3 / 0 131 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Utility RW Sta Off Text (RW_BD_UtilityRWStaOffText) Text Size = 0.1 Font = arial / 200	0 / 0 19 / Text	MR 10+88.03 (50' RT.)

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW ES Right of Way - Easements & Permits

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Easement Line New (RW_ES_EsmntLineNew)	3	0 / Line	
Esmnt Line (RW_ES_EsmntLine)	3	3 / Line	
Esmnt Line RR (RW_ES_EsmntLineRR)	5	0 / Line	
Esmnt Permit Line Sta Off Text (RW_ES_EsmntPermitLineStaOffText) Text Size = 0.1 Font = arial / 200	0	0 / Text	MR 10+88.03 (50' RT.)
Esmnt Permits Text (RW_ES_EsmntPermitsText) Text Size = 0.12 Font = arial / 200	0	0 / Text	EASEMENT
Esmnt Permits Text New (RW_ES_EsmntPermitsTextNew) Text SIze = 0.12 Font = arial / 200	0	0 / Text	SLOPE EASEMENT
Permit Harbor Line (RW_ES_PermitHarborLine)	3	Custom / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW ES Right of Way - Easements & Permits

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Permit Line (RW_ES_PermitLine)	3	0	
	83	Line	
Permit Line New (RW_ES_PermitLineNew)	3	0	
	67	Line	
Subterranean Easement Line (RW_ES_SubterraneanEsmntLine)	3	3	
	115	Line	
Subterranean Easement Line New (RW_ES_SubterraneanEsmntLineNew)	3	0	
	99	Line	
Temp Construction Easement Line (RW_ES_TempConstrEsmntLine)	3	3	
	147	Line	
Temp Construction Easement Line New (RW_ES_TempConstrEsmntLineNew)	3	0	
	131	Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW GB Right of Way - Government Boundaries

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Corp Limit Line (RW_GB_CorpLimitLine)	5	Custom	
	19	Line	
County Line (RW_GB_CountyLine)	5	Custom	
	51	Line	
Forest Boundary (RW_GB_ForestBndry)	4	Custom	
	83	Line	
Government Boundary Text (RW_GB_GovtBndryText) Text Size = 0.2 Font = arialbd / 217	0	0	STATE PARK
	19	Text	
Park Boundary (RW_GB_ParkBndry)	4	Custom	
	115	Line	
Reservation Boundary (RW_GB_ReservationBndry)	4	Custom	
	147	Line	
State Boundary (RW_GB_StateBndry)	5	Custom	
	19	Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW PA Right of Way - Parcels

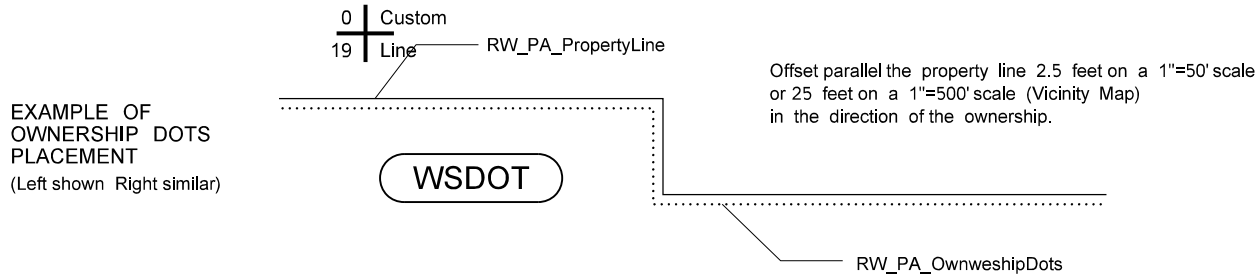
Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
City Names Text (RW_PA_CityNamesText) Text Size = 0.4 Font = BLOCK OUTLINE / 42	1 | 0 19 | Text	FIFE
CLine Access Road (RW_PA_CLineAccessRoad)	2 | 0 19 | Line	
ER Parcel Number (RW_PA_ERParcelNumber) Text Size = 0.06 Font = arial / 200	2 | 0 19 | Cell	0.7" 6- R 0.125"
Interchange Names Text (RW_PA_InterchangeNamesText) Text Size = 0.3 Font = BLOCK OUTLINE / 42	1 | 0 19 | Text	INTERCHANGE
Lot Line (RW_PA_LotLine)	1 | 0 5 | Line	
Lot Numbering (RW_PA_LotNumbering) Text Size = 0.1 Font = arial / 200	0 | 0 19 | Text	2
NCR Parcel Number (RW_PA_NCRParcelNumber) Text Size = 0.06 Font = arial / 200	2 | 0 19 | Cell	2-xxxxx

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW PA Right of Way - Parcels

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
NWR Parcel Number (RW_PA_NWRParcelNumber) Text Size = 0.06 Font = arial / 200	2 / 0 19 / Cell	1-xxxxx
OR Parcel Number (RW_PA_ORParcelNumber) Text Size = 0.06 Font = arial / 200	2 / 0 19 / Cell	3-xxxxx
Ownership Dots (RW_PA_OwnershipDots)	0 / Custom 19 / Line	
Ownership Tie (RW_PA_OwnershipTie)	1 / 0 19 / Cell	
Parcel Number Text (RW_PA_ParcelNoText) Text Size = 0.12 Font = arial / 200	0 / 0 19 / Text	WSDOT
Property Line (RW_PA_PropertyLine)	1 / 0 19 / Line	



S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW PA Right of Way - Parcels

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
SCR Parcel Number (RW_PA_SCRParcelNumber) Text Size = 0.06 Font = arial / 200	2 / 0 19 / Cell	5-xxxxx
Subdivision Bndry (RW_PA_SubdivisionBndry)	2 / 0 51 / Line	
Subdivisions Names Text (RW_PA_SubdivisionsNamesText) Text Size = 0.2 Font = BLOCK OUTLINE / 42	1 / 0 51 / Text	SUBDIVISION
Surplus Property Boundary (RW_PA_SurplusPropertyBndry)	5 / 0 1 / Line	
Surplus Property Boundary Note (RW_PA_SurplusPropertyBndryNote) Example drawn at 50% actual size. Text Size = 0.12 Font = arial / 200	1 / 0 19 / Cell	SURPLUS PROPERTY ICN (S.F.)
SWR Parcel Number (RW_PA_SWRParcelNumber) Text Size = 0.06 Font = arial / 200	2 / 0 19 / Cell	4-xxxxx
WSDOT Parcel Number* (RW_PA_WSDOTParcelNumber) Sized for a 100 scale drawing. Text Size = 0.06 Font = arial / 200	2 / 0 19 / Cell	WSDOT

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

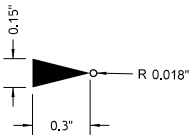
RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Bearings Text (RW_SC_BearingsText) Text Size = 0.12 Font = arial / 200	0 / 2 19 / Text	N 77°14'25" E
Center of Section (RW_SC_CenterofSection) Text Size = 0.09 Font = arial / 200	1 / 0 19 / Cell	? R 0.2"
Center of Sections Text (RW_SC_CenterofSectionsText) Text SIze = 0.18 Font = arial / 200	0 / 0 19 / Text	12
Closing Corner Found (RW_SC_ClosingCornerFound) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	0.5" ?? R 0.025" ?? ?? 0.1"
Closing Corner Found North (RW_SC_ClosingCornerFoundNorth) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	?? ?? ??
Closing Corner Not Found (RW_SC_ClosingCornerNotFound) Text SIze = 0.09 Font = arialbd / 217	1 / 0 115 / Cell	?? ?? ??

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Descriptions Text (RW_SC_DescriptionsText) Text Size = 0.1 Font = arial / 200	0 / 0 19 / Text	1" DIA. IRON PIPE
Donation Land Claim (RW_SC_DonationLandClaim)	3 / Custom 147 / Line	
Donation Land Claims Text (RW_SC_DonationLandClaimsText) Text Size = 0.18 Font = arialbd / 217	0 / 0 147 / Text	**J. JAY D.L.C. NO. 37**
Government Lot ID Text (RW_SC_GovtLotIDText) Text Size = 0.18 Font = arialbd / 217	0 / 0 147 / Text	**GOV'T LOT 3**
Meander Corner Found (RW_SC_MeanderCornerFound)	1 / 0 19 / Cell	
Meander Corner Not Found (RW_SC_MeanderCornerNotFound)	1 / 0 115 / Cell	
Meander Line (RW_SC_MeanderLine)	1 / Custom 147 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Meander Line Text (RW_SC_MeanderLineText) Text Size = 0.12 Font = arial / 200	0	0	GOV'T MEANDER LINE
	19	Text	
Quarter Corner Found EW (RW_SC_QuarterCornerFoundEW) Text Size = 0.09 Font = arialbd / 217	1	0	?? ??
	19	Cell	
Quarter Corner Found NS (RW_SC_QuarterCornerFoundNS) Text SIze = 0.09 Font = arialbd / 217	1	0	?? ??
	115	Cell	
Quarter Corner Not Found EW (RW_SC_QuarterCornerNotFoundEW) Text Size = 0.09 Font = arialbd / 217	1	0	?? ??
	19	Cell	
Quarter Corner Not Found NS (RW_SC_QuarterCornerNotFoundNS) Text Size = 0.09 Font = arialbd / 217	1	0	?? ??
	19	Cell	
Quarter Section Line (RW_SC_QuarterSectionLine)	3	Custom	
	51	Line	
Range Line (RW_SC_RangeLine)	5	0	
	115	Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Range Lines Text (RW_SC_RangeLinesText) Text Size = 0.25 Font = arialbd / 217	2 / 0 115 / Text	**T.2N. R.1E. W.M.**
Section Corner Found (RW_SC_SectionCornerFound) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	?? ?? ?? ??
Section Corner Not Found (RW_SC_SectionCornerNotFound) Text SIze = 0.09 Font = arialbd / 217	1 / 0 115 / Cell	?? ?? ?? ??
Section Corner Number Text (RW_SC_SectionCornerNumberText) Text Size = 0.18 Font = arialbd / 217	0 / 0 19 / Text	**24**
Section ID (RW_SC_SectionID) Text Size = 0.09 Font = arialbd / 217	3 / 0 19 / Cell	?? ¼ ?? ¼ **SEC. ??**
Section Line (RW_SC_SectionLine)	4 / Custom 19 / Line	
Sixteenth Section Line (RW_SC_SixteenthSectionLine)	2 / Custom 83 / Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Township Line (RW_SC_TownshipLine)	5 / 0 / 147 / Line	
Township Range Line Text (RW_SC_TownshipRangeLineText) Text Size = 0.25 Font = arialbd / 217	2 / 0 / 147 / Text	**T.2N. R.1E. W.M.**

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

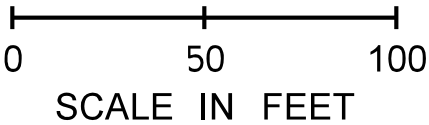
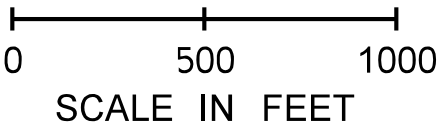
SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Destination Arrow (SH_GI_DestinationArrow)	2 / 0 18 / Cell	
Destination Arrow RW Text (SH_GI_DestinationArrowRWText) Text Size = 0.1 Font = arial / 200	0 / 0 18 / Text	TO YELM
Line Break Large (SH_GI_LineBreakLg)	2 / 0 18 / Cell	
Line Break Small (SH_GI_LineBreakSm)	2 / 0 18 / Cell	
Match Line (SH_GI_MatchLine)	3 / 0 18 / Line	
Match Line Text (SH_GI_MatchLineText) Text Size = 0.14 Font = arial / 200	0 / 0 18 / Text	MATCH LINE SEE SHEET XX

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
North Arrow (Rotate to Active) (SH_GI_NorthArrow(RotatetoActive))	2 / 0 18 / Cell	
North Arrow (Rotate to Reference) (SH_GI_NorthArrow(RotatetoReference))	2 / 0 18 / Cell	
Revision Strike Through Line (SH_GI_RevisionStrikeThroughLine)	0 / Custom 18 / Line	
Scale Bar 100 (SH_GI_ScaleBar100) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	
Scale Bar 1000 (SH_GI_ScaleBar1000) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Scale Bar 20 (SH_GI_ScaleBar20) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 10 20 SCALE IN FEET
Scale Bar 200 (SH_GI_ScaleBar200) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 100 200 SCALE IN FEET
Scale Bar 2000 (SH_GI_ScaleBar2000) Text SIze = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 1000 2000 SCALE IN FEET
Scale Bar 40 (SH_GI_ScaleBar40) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 20 40 SCALE IN FEET
Scale Bar 50 (SH_GI_ScaleBar50) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 25 50 SCALE IN FEET
Scale Bar 500 (SH_GI_ScaleBar500) Text SIze = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 250 500 SCALE IN FEET
Township Range Top Sheet Text (SH_GI_TownshipRangeTopSheetText) Text Size = 0.35 Font = arialbd / 217	2 / 0 24 / Text	**T.2N. R.1E. W.M.**

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Movement Arrow Left 1 Lane (SH_GI_TrafficMvmntArrowLt1Lane)	1 / 0 / 18 / Cell	
Traffic Movement Arrow Left 2 Lane (SH_GI_TrafficMvmntArrowLt2Lane) Text Size = 0.07 Font = arialbd / 217	1 / 0 / 18 / Cell	2
Traffic Movement Arrow left 3 Lane (SH_GI_TrafficMvmntArrowLt3Lane) Text SIze = 0.07 Font = arialbd / 217	1 / 0 / 18 / Cell	3
Traffic Movement Arrow Opposing (SH_GI_TrafficMvmntArrowOpposing)	1 / 0 / 18 / Cell	
Traffic Movement Arrow Right 1 Lane (SH_GI_TrafficMvmntArrowRt1Lane)	1 / 0 / 18 / Cell	
Traffic Movement Arrow Right 2 Lane (SH_GI_TrafficMvmntArrowRt2Lane) Text SIze = 0.07 Font = arialbd / 217	1 / 0 / 18 / Cell	2
Traffic Movement Arrow Right 3 Lane (SH_GI_TrafficMvmntArrowRt3Lane) Text Size = 0.07 Font = arialbd / 217	1 / 0 / 18 / Cell	3

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

Access Approach Sched Bottom

(SH_PR_AccessApproachSchedBottom)

Example drawn at 50% actual size.

Header1
Text Size = 0.14
Font = arial / 200

Body2
Text Size = 0.1
Font = arial / 200

1 / 0
18 / Cell

CENTERLINE OF APPROACH STATION	TYPE
ACCESS APPROACH SCHEDULE	

Access Approach Schedule Top

(SH_PR_AccessApproachScheduleTop)

Example drawn at 50% actual size.

Header1
Text Size = 0.14
Font = arial / 200

Body2
Text Size = 0.1
Font = arial / 200

1 / 0
18 / Cell

ACCESS APPROACH SCHEDULE	
CENTERLINE OF APPROACH STATION	TYPE

Access Notes Body Text

(SH_PR_AccessNotesBodyText)

Text Size = 0.1
Font = arial / 200

0 / 0
18 / Text

BODY OF TEXT

Access Notes Heading Text

(SH_PR_AccessNotesHeadingText)

Text Size = 0.14
Font = arial / 200

0 / 0
18 / Text

ACCESS NOTES

Air Lease Schedule

(SH_PR_AirLeaseSchedule)

Example drawn at 50% actual size.

Header1
Text Size = 0.14
Font = arial / 200

Body2
Text Size = 0.1
Font = arial / 200

1 / 0
18 / Cell

AIRSPACE LEASE SCHEDULE		
NUMBER	LESSEE	LOCATION

Basis of Bearing

(SH_PR_BasisofBearing)

Text Size = 0.1
Font = arial / 200

2 / 0
18 / Cell

THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE PLANE COORDINATE SYSTEM * ZONE (NAD 83/91*).

THE DISTANCES SHOWN ARE GROUND DISTANCES.

FOR SURVEY INFORMATION SEE RECORD OF SURVEY SR * RECORDED * AFN * .

*FILL IN APPLICABLE DATA FOR YOUR R/W PLAN

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
Begin End Plan Text (SH_PR_BeginEndPlanText) Text Size = 0.25 Font = arialbd / 217	2 | 0 18 | Text	**BEGINNING OF PLAN**
Cross Ref Note Mon Map Text (SH_PR_CrossRefNoteMonMapText) Text Size = 0.1 Font = arial / 200	0 | 0 18 | Text	FOR R/W SEE SR 507
Cross Ref Note RW Plan Text (SH_PR_CrossRefNoteRWPlanText) Text SIze = 0.1 Font = arial / 200	0 | 0 18 | Text	FOR R/W SEE SR 507
Exhibit A Note (SH_PR_ExhibitANote) Text Size = 0.2 Font = arialbd / 217	3 | 0 18 | Cell	**EXHIBIT A**
Laccess Designation Note (SH_PR_LaccessDesignationNote) Text Size = 0.12 Font = arial / 200	1 | 0 18 | Cell	Designated For Limited Access Control By Commission Resolution No.
Laccess Establish Note (SH_PR_LaccessEstablishNote) Text SIze = 0.12 Font = arial / 200	2 | 0 18 | Cell	LIMITED ACCESS ESTABLISHED BY THE ASSISTANT SECRETARY OF ENGINEERING AND REGIONAL OPERATIONS, FINDINGS AND ORDER ADOPTED _____ __, ____
Laccess Tentative Note (SH_PR_LaccessTentativeNote) Text Size = 0.12 Font = arial / 200	2 | 0 18 | Cell	LIMITED ACCESS FEATURES SHOWN ARE TENTATIVELY APPROVED BY THE RIGHT OF WAY PLANS MANAGER.

S4.05 Standard Symbols (cont.)

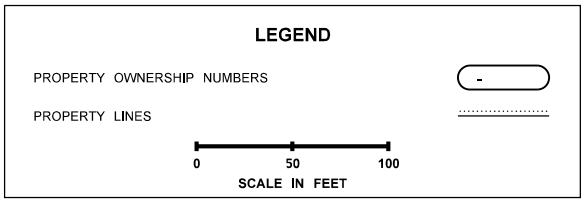
All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

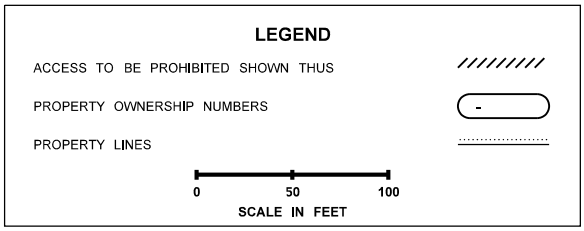
Legend Block
(SH_PR_LegendBlock)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.14	Text Size = 0.1	1 / 0
Font = arial / 200	Font = arial / 200	18 / Cell



Legend Block With LAccess
(SH_PR_LegendBlockWithLAccess)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.14	Text Size = 0.1	1 / 0
Font = arial / 200	Font = arial / 200	18 / Cell



Ownership Block Bottom
(SH_PR_OwnershipBlockBottom)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.25	Text Size = 0.1	1 / 0
Font = arial / 200	Font = arial / 200	18 / Cell

-						
-						
-						
-						
-						
PARCEL NO.	NAME	TOTAL AREA	R/W	LT. REMAINDER RT.		EASM'T

TOTAL AREA IS FROM ASSESSOR'S RECORDS UNLESS OTHERWISE NOTED. OWNERSHIPS ALL AREAS ARE SHOWN IN SQUARE FEET UNLESS OTHERWISE NOTED.

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

OwnerShip Block Top
(SH_PR_OwnerShipBlockTop)
Example drawn at 50% actual size.

Header1
Text Size = 0.25
Font = arial / 200

Body2
Text Size = 0.1
Font = arial / 200

1 / 0
18 / Cell

TOTAL AREA IS FROM ASSESSOR'S RECORDS UNLESS OTHERWISE NOTED.	OWNERSHIPS				ALL AREAS ARE SHOWN IN SQUARE FEET UNLESS OTHERWISE NOTED.
PARCEL NO.	NAME	TOTAL AREA	R/W	LT. REMAINDER RT.	EASM'T
-					
-					
-					
-					
-					

Recording Certificate
(SH_PR_RecordingCertificate)

Text Size = 0.1
Font = arial / 200

1 / 0
0 / Cell

Recording Certificate _____

Filed for record this _____Day of _____,_____

at _____M. in Book _____of _____at Page _____

at the request of Washington State

Department of Transportation.

_____ _____

Revision Block
(SH_PR_RevisionBlock)
Example drawn at 50% actual size.

Text Size = 0.1
Font = arial / 200

1 / 0
18 / Cell

Reference	Approval		By	Appr.

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Road Approach Type A Note (SH_PR_RoadApproachTypeANote) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	TYPE A APPROACH IS AN OFF AND ON APPROACH IN LEGAL MANNER, NOT TO EXCEED 30 FEET IN WIDTH, FOR SOLE PURPOSE OF SERVING A SINGLE FAMILY RESIDENCE. IT MAY BE RESERVED BY ABUTTING OWNER FOR SPECIFIED USE AT A POINT SATISFACTORY TO THE STATE AT OR BETWEEN DESIGNATED HIGHWAY STATIONS.
Road Approach Type B Note (SH_PR_RoadApproachTypeBNote) Text SIze = 0.1 Font = arial / 200	2 / 0 18 / Cell	TYPE B APPROACH IS AN OFF AND ON APPROACH IN LEGAL MANNER, NOT TO EXCEED 50 FEET IN WIDTH, FOR USE NECESSARY TO THE NORMAL OPERATION OF A FARM, BUT NOT FOR RETAIL MARKETING. IT MAY BE RESERVED BY ABUTTING OWNER FOR SPECIFIED USE AT A POINT SATISFACTORY TO THE STATE AT OR BETWEEN DESIGNATED HIGHWAY STATIONS.
Road Approach Type C Note (SH_PR_RoadApproachTypeCNote) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	TYPE C APPROACH IS AN OFF AND ON APPROACH IN LEGAL MANNER, FOR SPECIAL PURPOSE AND WIDTH TO BE AGREED UPON. IT MAY BE SPECIFIED AT A POINT SATISFACTORY TO THE STATE AT OR BETWEEN DESIGNATED HIGHWAY STATIONS.
Road Approach Type D Note (SH_PR_RoadApproachTypeDNote) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	TYPE D APPROACH IS AN OFF AND ON APPROACH IN A LEGAL MANNER NOT TO EXCEED 50 FEET IN WIDTH FOR USE NECESSARY TO THE NORMAL OPERATION OF A COMMERCIAL ESTABLISHMENT. IT MAY BE SPECIFIED AT A POINT SATISFACTORY TO THE STATE AT OR BETWEEN DESIGNATED HIGHWAY STATIONS.

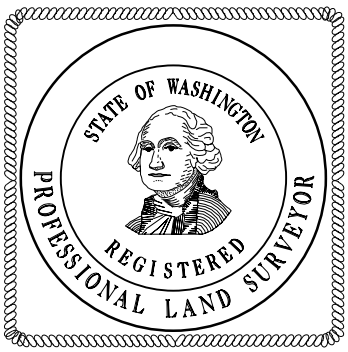
S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Road Approach Type E Note (SH_PR_RoadApproachTypeENote) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	TYPE E APPROACH IS AN OFF AND ON APPROACH IN A LEGAL MANNER NOT TO EXCEED 30 FEET IN WIDTH FOR USE NECESSARY TO THE NORMAL OPERATION OF A COMMERCIAL ESTABLISHMENT. IT MAY BE SPECIFIED AT A POINT SATISFACTORY TO THE STATE AT OR BETWEEN DESIGNATED HIGHWAY STATIONS.
Road Approach Type F Note (SH_PR_RoadApproachTypeFNote) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	TYPE F APPROCH IS AN OFF AND ON APPROACH IN A LEGAL MANNER, NOT TO EXCEED 30 FEET IN WIDTH, FOR THE SOLE PURPOSE OF SERVING A WIRELESS COMMUNICATION SITE. IT MAY BE SPECIFIED AT A POINT SATISFACTORY TO THE STATE AT OR BETWEEN DESIGNATED HIGHWAY STATIONS.
RW Curve Data Block (SH_PR_RWCurveDataBlock) Example drawn at 50% actual size. Header1: Text Size = 0.14, Font = arial / 200 Body2: Text Size = 0.1, Font = arial / 200	1 / 0 18 / Cell	
RW PLS Stamp (SH_PR_RWPLSStamp)	0 / 0 18 / Cell	

CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH



S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)

ByLevel Weight | ByLevel Style
byLevel Color | Element Type

Example

RW Total CurveData Block

(SH_PR_RWTotalCurveDataBlock)

Example drawn at 50% actual size.

Header1
Text Size = 0.14
Font = arial / 200

Body2
Text Size = 0.1
Font = arial / 200

1 | 0
18 | Cell

TOTAL CURVE DATA			CURVE DATA			SPIRAL DATA		
P.I. STATION	DELTA	TANGENT	DELTA	RADIUS	LENGTH	a	DE	Ls

Sheet Access Hearing

(SH_PR_SheetAccessHearing)

Example drawn at 10% actual size.

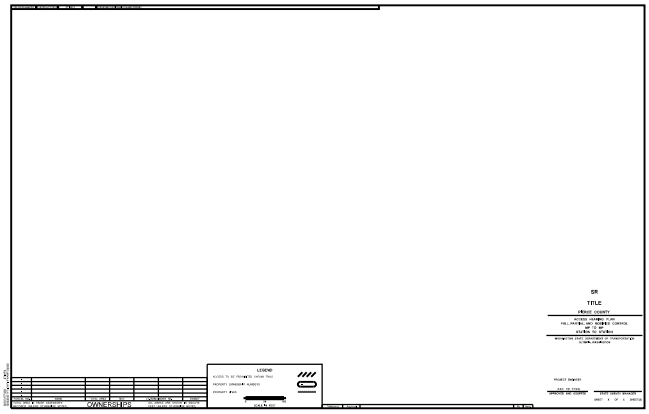
Header1
Text Size = 0.2
Font = arial / 200

Header2
Text Size = 0.14
Font = arial / 200

Header3
Text Size = 0.12
Font = arial / 200

Body1
Text Size = 0.1
Font = arial / 200

1 | 0
18 | Cell



Sheet Exhibit Map

(SH_PR_SheetExhibitMap)

Example drawn at 10% actual size.

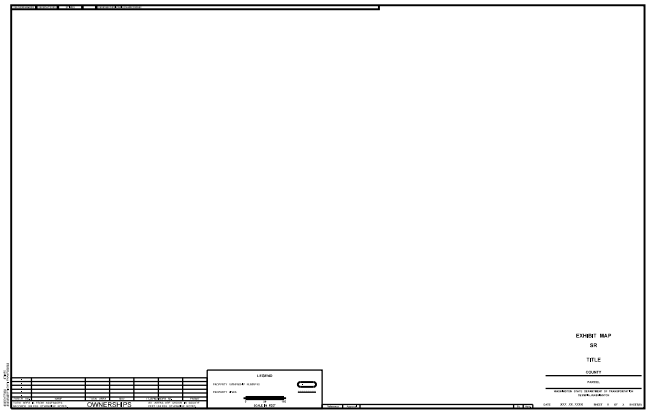
Header1
Text Size = 0.2
Font = arial / 200

Header2
Text Size = 0.14
Font = arial / 200

Header3
Text Size = 0.12
Font = arial / 200

Body1
Text Size = 0.1
Font = arial / 200

1 | 0
18 | Cell



S4.05 Standard Symbols (cont.)

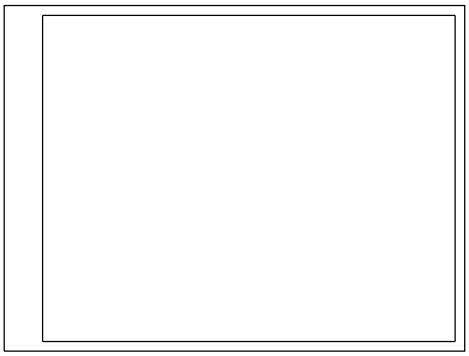
All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Sheet Record Of Survey
(SH_PR_SheetRecordOfSurvey)
Example drawn at 10% actual size.

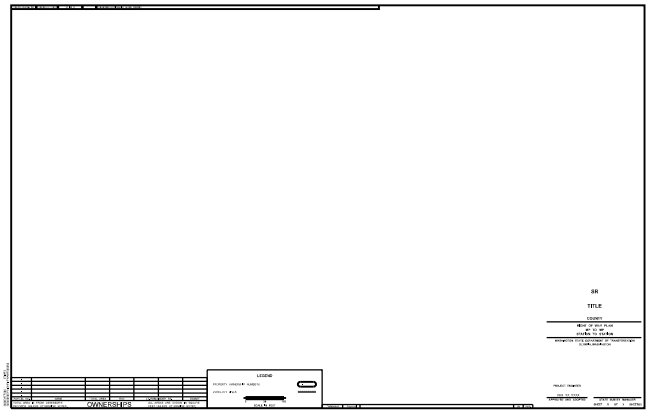
1 | 0
18 | Cell



Sheet RW
(SH_PR_SheetRW)
Example drawn at 10% actual size.

Header1	Header2
Text Size = 0.2	Text Size = 0.14
Font = arial / 200	Font = arial / 200
Header3	**Body1**
Text Size = 0.12	Text Size = 0.1
Font = arial / 200	Font = arial / 200

1 | 0
18 | Cell



S4.05 Standard Symbols (cont.)

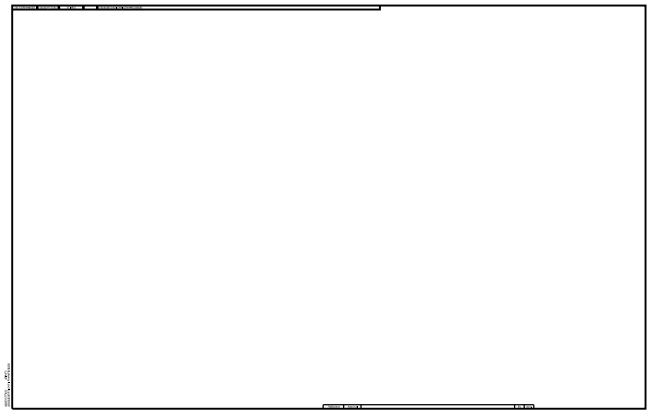
All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Sheet RW Border Only
(SH_PR_SheetRWBorderOnly)
Example drawn at 10% actual size.

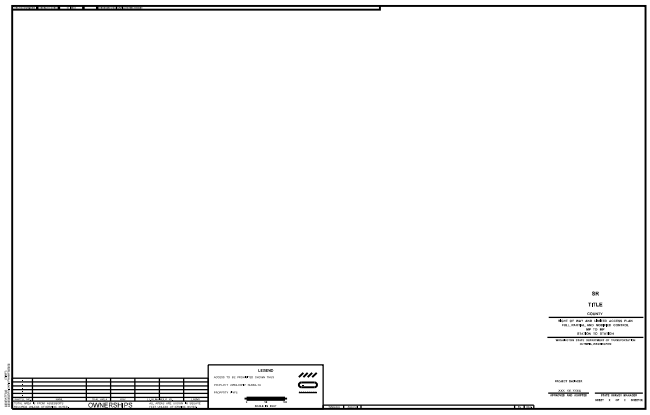
1	0
18	Cell



Sheet RW Limited Access
(SH_PR_SheetRWLimitedAccess)
Example drawn at 10% actual size.

1	0
18	Cell

Header1	Header2
Text Size = 0.2	Text Size = 0.14
Font = arial / 200	Font = arial / 200
Header3	**Body1**
Text Size = 0.12	Text Size = 0.1
Font = arial / 200	Font = arial / 200



S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

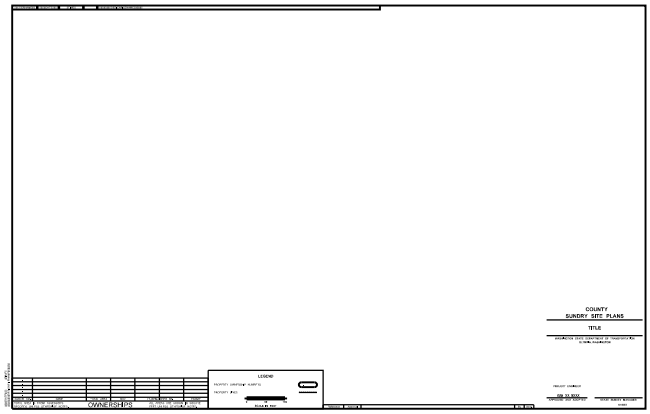
SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example

Sheet Sundry Site
(SH_PR_SheetSundrySite)
Example drawn at 10% actual size.

Header1 Text Size = 0.2 Font = arial / 200	Header2 Text Size = 0.18 Font = arial / 200
Body1 Text Size = 0.1 Font = arial / 200	

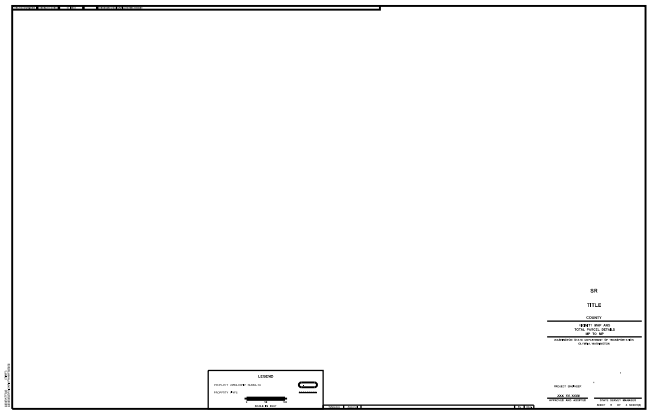
1 / 0
18 / Cell



Sheet Vicinity Map
(SH_PR_SheetVicinityMap)
Example drawn at 10% actual size.

Header1 Text Size = 0.2 Font = arial / 200	Header2 Text Size = 0.14 Font = arial / 200
Header3 Text Size = 0.12 Font = arial / 200	Body1 Text Size = 0.1 Font = arial / 200

1 / 0
18 / Cell



State Plane Coord System
(SH_PR_StatePlaneCoordSystem)
Example drawn at 50% actual size.

Header1 Text Size = 0.14 Font = arial / 200	Body2 Text Size = 0.1 Font = arial / 200

1 / 0
18 / Cell

WASHINGTON STATE PLANE COORD. SYSTEM [METERS]			
GPS NUMBER	NORTHING	EASTING	CONV. ANGLE

Supplemental Access Note 1
(SH_PR_SupplementalAccessNote1)

Text Size = 0.1
Font = arial / 200

2 / 0
18 / Cell

NO. 1. THIS APPROACH IS TO BE USED TO TRAVEL ON RIGHT OF WAY AND ENTER PROPERTY AS SPECIFIED.

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Supplemental Access Note 2 (SH_PR_SupplementalAccessNote2) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	NO. 2. THIS APPROACH IS TO BE USED TO SERVE MORE THAN ONE OWNER AND/OR UTILITY, FOR ONLY THOSE OWNERSHIPS LISTED ON THE ACCESS APPROACH SCHEDULE.
Supplemental Access Note 21 (SH_PR_SupplementalAccessNote21) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	NO. 21. THE PRIVILEGE OF ACCESS TO AREAS WITHIN THE RIGHT OF WAY IS PERMITTED FROM OUTSIDE THE RIGHT OF WAY TO THE USER DESIGNATED, SOLELY FOR USE AUTHORIZED BY AND SUBJECT TO THE CONDITIONS OF THE FRANCHISE, PERMIT, OR AGREEMENT SPECIFIED. NO ACCESS WILL BE ALLOWED TO THE TRAVELED HIGHWAY LANES OR RAMPS.
Supplemental Access Note 3 (SH_PR_SupplementalAccessNote3) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	NO. 3. THIS APPROACH MAY BE USED FOR ANY PURPOSE CONSISTENT WITH LOCAL ZONING. THE WIDTH IS TO BE DETERMINED BY WSDOT STANDARDS FOR THE TYPE OF USE INVOLVED.
Supplemental Access Note 4 (SH_PR_SupplementalAccessNote4) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	NO. 4. THIS APROACH MAY BE INCREASED IN WIDTH NOT TO EXCEED 80 FEET FOR USE BY SPECIAL FARM EQUIPMENT. DURING THE CROSSING OF THE HIGHWAY WITH FARM EQUIPMENT REQUIRING AN APPROACH EXCEEDING 50 FEET IN WIDTH, TRAFFIC ON THE HIGHWAY SHALL BE PROTECTED BY FLAGMEN PROVIDED BY THE OWNER AT HIS EXPENSE.

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Supplemental Access Note 5 (SH_PR_SupplementalAccessNote5) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	NO. 5. THIS APPROACH IS TO BE USED FOR THE OPERATION, MAINTENANCE, AND REPAIR OF THE UTILITY SPECIFIED. THE APPROACH SHALL NOT EXCEED 50 FEET IN WIDTH.
Supplemental Access Note 9 (SH_PR_SupplementalAccessNote9) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	NO. 9. THIS APPROACH SHALL BE GATED AND LOCKED WHEN NOT IN USE.
Surveyor Certificate (SH_PR_SurveyorCertificate) Text Size = 0.1 Font = arial / 200	1 / 0 0 / Cell	Surveyor's Certificate This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Survey Recording Act at the request of W.S.D.O.T. in_____, 20 _____ _____ Certificate Number _____
Verification Notes (SH_PR_VerificationNotes) Text Size = 0.1 Font = arial / 200	2 / 0 18 / Cell	ALL PLANS ARE SUBJECT TO CHANGE. OWNERSHIP SHOULD BE VERIFIED. PROPOSED PROPERTY RIGHTS SHOWN MAY NOT HAVE BEEN ACQUIRED. ENCUMBRANCES MAY OR MAY NOT BE SHOWN. PARTIES SEEKING CURRENT PLAN INFORMATION SHOULD CONSULT THE DEPARTMENT OF TRANSPORTATION HEADQUARTERS RIGHT OF WAY PLANS OFFICE FOR THE OFFICIAL PLAN ON FILE. FOR ENCUMBRANCE INFORMATION CONSULT THE DEPARTMENT OF TRANSPORTATION HEADQUARTERS REAL ESTATE SERVICES OFFICE.

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Vicinity Map Body Text (SH_PR_VicinityMapBodyText) Text Size = 0.14 Font = arialbd / 217	0 / 0 18 / Text	**TOTAL LENGTH OF PLAN = 0.67 MILE**
Vicinity Map Heading Text (SH_PR_VicinityMapHeadingText) Text Size = 0.3 Font = arialbd / 217	2 / 0 18 / Text	**VICINITY MAP**

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

ST BG Structures - Bridges

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Bridge (ST_BG_Bridge)	0 / 6 23 / Line	
Bridge New (ST_BG_BridgeNew)	2 / 0 7 / Line	
Bridge RW Text (ST_BG_BridgeRWText) Text Size = 0.12 Font = arial / 200	0 / 0 23 / Text	OVERCROSSING
RR Structure (ST_BG_RRStructure)	0 / 6 119 / Line	
Structure (ST_BG_Structure)	0 / 5 55 / Line	
Tunnel (ST_BG_Tunnel)	0 / 5 87 / Line	
Tunnel RW Text (ST_BG_TunnelRWText) Text Size = 0.12 Font = arial / 200	0 / 0 23 / Text	OVERCROSSING

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Building 2D (TP_MM_Building2D)	2	0	
	126	Line	
Canal (TP_MM_Canal)	3	0	
	126	Line	
Dam (TP_MM_Dam)	10	0	
	126	Line	
Dike (TP_MM_Dike)	10	0	
	126	Line	
Distance Tie (TP_MM_DistanceTie)	1	0	
	30	Line	
Distance Tie Text (TP_MM_DistanceTieText) Text Size = 0.1 Font = arial / 200	0	0	48'
	30	Text	
Manmade Topography RW Text (TP_MM_ManmadeTopographyRWText) Text Size = 0.1 Font = arial / 200	0	0	GABION WALL
	30	Text	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Orchard Or Vineyard (TP_MM_OrchardOrVineyard)	1 / 126	Custom / Line	
Reservoir (TP_MM_Reservoir)	3 / 126	0 / Line	
RR Center Tracks (TP_MM_RRCenterTracks)	2 / 62	Custom / Line	
RR Text (TP_MM_RRText) Text Size = 0.1 Font = arial / 200	0 / 62	0 / Text	BNSF RAILWAY
Well (TP_MM_Well)	0 / 126	2 / Cell	R 0.09"

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

TP NT Topography - Natural

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
High Water Line (TP_NT_HighWaterLine)	3	0	
	30	Line	
Lake Edge (TP_NT_LakeEdge)	3	0	
	126	Line	
Large Body of Water Edge (TP_NT_LargeBodyofWaterEdge)	3	0	
	126	Line	
Pond Edge (TP_NT_PondEdge)	3	0	
	126	Line	
River Edge (TP_NT_RiverEdge)	3	0	
	126	Line	
Stream Non Scalable (TP_NT_StreamNonScalable)	3	0	
	126	Line	
Stream Scaleable Edge (TP_NT_StreamScaleableEdge)	3	0	
	126	Line	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

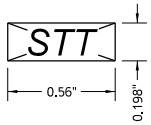
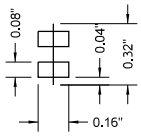
TP NT Topography - Natural

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Water Pond Lake Res RW Text (TP_NT_WaterPondLakeResRWText) Text Size = 0.12 Font = arial / 200	0 / 0 126 / Text	GREEN RIVER
Water Tidal Shore Large Body Text (TP_NT_WaterTidalShoreLgBodyText) Text Size = 0.2 Font = arial / 200	0 / 0 126 / Text	BUDD INLET

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Steel Transmission Tower (UT_CM_SteelTransmissionTower) Text Size = 0.07 Font = ariali / 164	1 / 0 21 / Cell	
Wooden Transmission Tower (UT_CM_WoodenTransmissionTower)	1 / 0 21 / Cell	

S4.05 Standard Symbols (cont.)

All items are shown at the size they will appear on an 22"x36" R/W plot.

UT SS Utilities - Sanitary Sewer

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Drainfield (UT_SS_Drainfield)	1 / 3 / 149 / Line	
Drainfield Deactive (UT_SS_DrainfieldDeactive)	1 / Custom / 149 / Line	

S5.01 General
S5.02 Deliverable Types
S5.03 Standard Weights & Styles
S5.04 Alphabetical Listing of Standard Symbols
S5.05 Standard Symbols

S5.01 General

This section describes Standard Symbols for the production of WSDOT deliverable contract plan sheets described in the Plans Preparation Manual.

The various geometric and design features commonly used in drafting plans have been assigned to the different CAD levels. These levels are arranged by category (or "parent" code), then by subcategory (or "child" code), then by Item. Included are the CAD Symbology names, with associated applicable cell name, CAD level, color, line style, and line weight.

S5.02 Deliverable Types

S5.02(1) PS&E Plans

Plans, Specifications, and Estimates (PS&E) Plans are generated to communicate the design intent for a construction project. This section describes standard symbols for the production of the PS&E Plan sheets as described in the *Plans Preparation Manual, Division 4*.

- All measurements are in U.S. Survey Feet.
- The Symbols and their measurements shown are at the correct size for plans plotted on 11-inch x 17-inch sheets.

S5.02(2) Plans For Approval

Plans for Approval (PFA) are used to document and submit intersection design geometry for approval. Applicable standard drafting symbology is included this division and supports production of PFAs as described in the *Design Manual*.

- All measurements are in U.S. Survey Feet.
- The Symbols and their measurements shown are at the correct size for plans plotted on 11-inch x 17-inch sheets. However, final deliverable requirements may indicate 22-inch x 34-inch prints. Check with your approving authority.

S5.03 Standard Weights & Styles

All items are shown at the size they will appear on an 11"x17" PS&E plot. All leader lines and line terminators will be placed on the same level as descriptive text unless otherwise noted.

WSDOT Standard Line Weights

CAD

0
1
2
3
4
5
6

WSDOT Base Line Styles

The following line styles/codes are used for linear elements unless a WSDOT custom linestyle is called out.

0
1
2
3
4
5
6
7

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
EV	WL	100YearFlood	*100 Year Flood*
TR	SG	3SignalHeadLeftNew	*3 Signal Head Left New*
TR	SG	3SignalHeadMastLeftNew	*3 Signal Head Mast Left New*
TR	SG	3SignalHeadMastNew	*3 Signal Head Mast New*
TR	SG	3SignalHeadNew	*3 Signal Head New*
TR	SG	4SignalHeadMastNew	*4 Signal Head Mast New*
TR	SG	4SignalHeadNew	*4 Signal Head New*
EV	WL	500YearFlood	*500 Year Flood*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
UT	GU	AboveGndUtilityStructNew	*Above Ground Utility Structure New*
UT	GU	AboveGndUtilityStructure	*Above Ground Utility Structure*
UT	GU	AboveGroundUtilityLine	*Above Ground Utility Line*
UT	GU	AboveGroundUtilityPoint	*Above Ground Utility Point*
UT	CM	AbvGndCableTV	*Above Ground Cable TV*
UT	CM	AbvGndCableTVNew	*Above Ground Cable TV New*
UT	CM	AbvGndCommLine	*Above Ground Communication Line*
UT	CM	AbvGndCommLineNew	*Above Ground Communication Line New*
UT	CM	AbvGndFiberOpticCable	*Above Ground Fiber Optic Cable*
UT	CM	AbvGndFiberOpticCableNew	*Above Ground Fiber Optic Cable New*
UT	PW	AbvGndHiTensPowerLine	*Above Ground Hi Tens Power Line*
UT	PW	AbvGndHiTensPowerLineNew	*Above Ground Hi Tens Power Line New*
UT	PW	AbvGndPower	*Above Ground Power*
UT	PW	AbvGndPowerNew	*Above Ground Power New*
UT	CM	AbvGndTelephoneLine	*Above Ground Telephone Line*
UT	CM	AbvGndTelephoneLineNew	*Above Ground Telephone Line New*
UT	MT	AbvGndUtilitiesMulti	*Above Ground Utilities Multiple*
UT	MT	AbvGndUtilitiesMultiNew	*Above Ground Utilities Multiple New*
UT	MT	AbvGndUtilMultDeactive	*Above Ground Utilities Multiple Deactive*
SH	GI	AddendumCloud	*Addendum Cloud*
SH	GI	AddendumShading	*Addendum Shading*
TR	TS	AdvancedWarningSign	*Advanced Warning Sign*
TR	TS	AdvancedWarningSignNew	*Advanced Warning Sign New*
RD	MK	AerialSurvIncMarkFull	*Aerial Survey Inc Mark Full*
RD	MK	AerialSurvIncMarkFullNew	*Aerial Survey Inc Mark Full New*
RD	MK	AerialSurvIncMarkHalf	*Aerial Survey Inc Mark Half*
RD	MK	AerialSurvIncMarkHalfNew	*Aerial Survey Inc Mark Half New*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
SH	RS	ApproachSchedule	*Approach Schedule*
SH	TI	ApprovedTrafficEngineer	*Approved Traffic Engineer*
EV	LS	AreaMeasurements	*Area Measurements*
TP	MM	AreaUnderConstr	*Area Under Construction*
TR	WZ	ArrowDetourRoute	*Arrow Detour Route*
TR	WZ	ArrowLeftStrRightTurn	*Arrow Left Straight Right Turn*
TR	WZ	ArrowLeftTurn	*Arrow Left Turn*
TR	WZ	ArrowRightTurn	*Arrow Right Turn*
TR	WZ	ArrowStraight	*Arrow Straight*
TR	WZ	ArrowStraightLeftTurn	*Arrow Straight Left Turn*
TR	WZ	ArrowStraightRightTurn	*Arrow Straight Right Turn*
RD	BM	AsphaltBerm	*Asphalt Berm*
TR	TS	ATMControlCabinet	*ATM Control Cabinet*
TR	TS	ATMControlCabinetNew	*ATM Control Cabinet New*
TR	WZ	AutoFlaggerAssistDevice	*Auto Flagger Assist Device*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
ST	BG	BackofPvmntSeat	*Back of Pavement Seat*
TR	SN	Barricade	*Barricade*
TR	WZ	BarricadeType2	*Barricade Type 2*
TR	WZ	BarricadeType3	*Barricade Type 3*
TR	WZ	BarrierAttenuator	*Barrier Attenuator*
EV	EC	BarrierBrushNew	*Barrier Brush New*
RD	BR	BarrierCenter	*Barrier Center*
RD	BR	BarrierCenterNew	*Barrier Center New*
RD	BR	BarrierCenterTemporary	*Barrier Center Temporary*
TR	WZ	BarrierDoubleFaceElev	*Barrier Double Face Elev*
TR	WZ	BarrierDrum	*Barrier Drum*
TR	WZ	BarrierDrumPattern12	*Barrier Drum Pattern 12*
TR	WZ	BarrierDrumPattern18	*Barrier Drum Pattern 18*
TR	WZ	BarrierDrumPattern24	*Barrier Drum Pattern 24*
TR	WZ	BarrierPoleSignMount	*Barrier Pole Sign Mount*
TR	WZ	BarrierQuickMove	*Barrier Quick Move*
TR	IL	BarrierRecMountedLightNew	*Barrier Rec Mounted Light New*
TR	WZ	BarrierSingleFaceElev	*Barrier Single Face Elev*
RD	BR	BarrierText	*Barrier Text*
RD	BR	BarrierTextNew	*Barrier Text New*
ST	GD	BasinChannelSurfaceNew	*Basin Channel Surface New*
ST	GD	BasinConcreteRebarNew	*Basin Concrete Rebar New*
ST	GD	BasinConcreteSlabNew	*Basin Concrete Slab New*
ST	GD	BasinConcreteWallNew	*Basin Concrete Wall New*
ST	GD	BasinCraneNew	*Basin Crane New*
ST	GD	BasinCraneRailBeamNew	*Basin Crane Rail Beam New*
ST	GD	BasinCraneRailNew	*Basin Crane Rail New*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
ST	GD	BasinEdgeBeamsNew	*Basin Edge Beams New*
ST	GD	BasinFishTrenchNew	*Basin Fish Trench New*
ST	GD	BasinGateNew	*Basin Gate New*
ST	GD	BasinGeoFrabicNew	*Basin Geo Fabric New*
ST	GD	BasinHandRailingNew	*Basin Hand Railing New*
ST	GD	BasinPileBeamsNew	*Basin Pile Beams New*
ST	GD	BasinPileNew	*Basin Pile New*
ST	GD	BasinRetainingWallNew	*Basin Retaining Wall New*
ST	GD	BasinTideLevel	*Basin Tide Level*
ST	GD	BasinWallFootingsNew	*Basin Wall Footings New*
EV	LS	BatHouse	*Bat House*
RW	SC	BearingsText	*Bearings Text*
SH	PS	BeginEndConstrText	*Begin End Construction Text*
SH	GI	BeginEndProjectNote	*Begin End Project Note*
TP	MM	Bench	*Bench*
EV	EC	BermCompostNew	*Berm Compost New*
EV	EC	BermGravelFilterNew	*Berm Gravel Filter New*
RD	BM	BermText	*Berm Text*
RD	BM	BermTextNew	*Berm Text New*
RD	ED	BikePathEdge	*Bike Path Edge*
RD	ED	BikePathEdgeNew	*Bike Path Edge New*
RD	MK	BikeSymb	*Bike Symbol*
RD	MK	BikeSymbArrow	*Bike Symbol Arrow*
RD	MK	BikeSymbArrowNew	*Bike Symbol Arrow New*
RD	MK	BikeSymbNew	*Bike Symbol New*
EV	LS	BioEngineeringNew	*Bio Engineering New*
EV	WL	BiofiltrationSwale	*Biofiltration Swale*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
EV	WL	BiofiltrationSwaleNew	*Biofiltration Swale New*
EV	EC	BioRetention	*Bio Retention*
EV	WL	BndryWetland	*Bndry Wetland*
EV	WL	BndryWetlandInventoryNew	*Bndry Wetland Inventory New*
EV	WL	BndryWetlandNew	*Bndry Wetland New*
SH	RS	BodyExistingText	*Body Existing Text*
SH	RS	BodyTextNew	*Body Text New*
RD	BR	Bollard	*Bollard*
RD	BR	BollardNew	*Bollard New*
ST	GD	BollardNew	*Bollard New*
TP	MM	BoreHoleorDrillHole	*Bore Hole or Drill Hole*
TP	MM	BoreHoleorDrillHoleNew	*Bore Hole or Drill Hole New*
EV	LS	Boulder	*Boulder*
EV	RH	BoulderNew	*Boulder New*
EV	IR	Box	*Box*
DR	ST	BoxCulvert	*Box Culvert*
DR	ST	BoxCulvertNew	*Box Culvert New*
EV	IR	BoxNew	*Box New*
SH	TI	BreakerScheduleTypeB	*Breaker Schedule Type B*
SH	TI	BreakerScheduleTypeD	*Breaker Schedule Type D*
SH	TI	BreakerScheduleTypeE	*Breaker Schedule Type E*
ST	BG	Bridge	*Bridge*
ST	BG	BridgeApproachSlabNew	*Bridge Approach Slab New*
ST	BG	BridgeNew	*Bridge New*
ST	BG	BridgePile	*Bridge Pile*
ST	BG	BridgePileNew	*Bridge Pile New*
ST	BG	BridgeShaft	*Bridge Shaft*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
ST	BG	BridgeShaftNew	*Bridge Shaft New*
ST	BG	BridgeText	*Bridge Text*
ST	BG	BridgeTextNew	*Bridge Text New*
TP	NT	BrushLine	*Brush Line*
SH	TI	BufferDataNote	*Buffer Data Note*
EV	EP	BufferEnhancement	*Buffer Enhancement*
EV	EP	BufferPreservation	*Buffer Preservation*
EV	EP	BufferRestoration	*Buffer Restoration*
TP	MM	Building2D	*Building 2D*
UT	GU	BusPedestal	*Bus Pedestal*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
RD	BR	CableBarrier	*Cable Barrier*
RD	BR	CableBarrierNew	*Cable Barrier New*
UT	CM	CablePedestal	*Cable Pedestal*
UT	CM	CablePedestalNew	*Cable Pedestal New*
TR	TS	CableVault	*Cable Vault*
TR	TS	CableVaultNew	*Cable Vault New*
SH	TI	CameraSchedule	*Camera Schedule*
TP	MM	Canal	*Canal*
EV	IR	Casing	*Casing*
EV	IR	CasingNew	*Casing New*
DR	ST	CatchBasin	*Catch Basin*
DR	ST	CatchBasinNew	*Catch Basin New*
EV	LS	CAVFS	*Compost Amended Vegetated Filter Strip*
EV	LS	CAVFSEdge	*Compost Amended Vegetated Filter Strip Edge*
TR	TS	CCTVCamera	*CCTV Camera*
TR	TS	CCTVCameraNew	*CCTV Camera New*
TR	TS	CCTVControlCabinet	*CCTV Control Cabinet*
TR	TS	CCTVControlCabinetNew	*CCTV Control Cabinet New*
SH	RS	CenterLine	*Center Line*
SH	BT	CenterlineNew	*Centerline New*
RW	SC	CenterofSectionsText	*Center of Sections Text*
SH	TI	ChanSpacing25to45Note	*Chan Spacing 25 to 45 Note*
SH	TI	ChanSpacing25to70Note	*Chan Spacing 25 to 70 Note*
SH	TI	ChanSpacing35to45Note	*Chan Spacing 35 to 45 Note*
SH	TI	ChanSpacing35to70Note	*Chan Spacing 35 to 70 Note*
SH	TI	ChanSpacing50to70Note	*Chan Spacing 50 to 70 Note*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
EV	EC	CheckDamBioNew	*Check Dam Biodegradable New*
EV	EC	CheckDamNonBioNew	*Check Dam Non Biodegradable New*
RW	PA	CityNamesText	*City Names Text*
TP	MM	ClearGrubLineNew	*Clear Grub Line New*
TP	MM	ClearLineNew	*Clear Line New*
EV	LS	ClearPruneGrubSelective	*Clear Prune Grub Selective*
EV	LS	ClearPruneSelective	*Clear Prune Selective*
EV	LS	ClearSelective	*Clear Selective*
RD	MC	ClearZoneInventoryBndry	*Clear Zone Inventory Boundary*
AL	HW	CLinePSE	*Center Line PSE*
AL	HW	CLinePSEBearingsText	*Center Line PSE Bearings Text*
AL	HW	CLinePSECrvDataText	*Center Line PSE Curve Data Text*
AL	HW	CLinePSECurvePtCircle	*Center Line PSE Curve Point Circle*
AL	HW	CLinePSELineDesText	*Center Line PSE Line Designation Text*
AL	HW	CLinePSEMajorStaText	*Center Line PSE Major Station Text*
AL	HW	CLinePSENew	*Center Line PSE New*
AL	HW	CLinePSENewBearingsText	*Center Line PSE New Bearings Text*
AL	HW	CLinePSENewCrvDataText	*Center Line PSE New Curve Data Text*
AL	HW	CLinePSENewCurvePtCircle	*Center Line PSE New Curve Point Circle*
AL	HW	CLinePSENewLineDesText	*Center Line PSE New Line Designation Text*
AL	HW	CLinePSENewMajorStaText	*Center Line PSE New Major Station Text*
AL	HW	CLinePSENewPCPIPTText	*Center Line PSE New PC PI PT Text*
AL	HW	CLinePSENewPItoPILine	*Center Line PSE New PI to PI Line*
AL	HW	CLinePSENewSRNoText	*Center Line PSE New SR Number Text*
AL	HW	CLinePSENewStaEquaText	*Center Line PSE New Station Equation Text*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
AL	HW	CLinePSENewStaEquation	*Center Line PSE New Station Equation*
AL	HW	CLinePSENewStationText	*Center Line PSE New Station Text*
AL	HW	CLinePSENewTics	*Center Line PSE New Tics*
AL	HW	CLinePSEPCPIPTText	*Center Line PSE PC PI PT Text*
AL	HW	CLinePSEPItoPILine	*Center Line PSE PI to PI Line*
AL	HW	CLinePSESRNoText	*Center Line PSE SR Number Text*
AL	HW	CLinePSEStaEquaText	*Center Line PSE Station Equation Text*
AL	HW	CLinePSEStaEquation	*Center Line PSE Station Equation*
AL	HW	CLinePSEStationText	*Center Line PSE Station Text*
AL	HW	CLinePSETics	*Center Line PSE Tics*
AL	RW	CLineRWCntrlCrvDataText	*Center Line RW Controlling Curve Data Text*
AL	RW	CLineRWforPSE	*Center Line RW for PSE*
AL	RW	CLineRWforPSEBearingsText	*Center Line RW for PSE Bearings Text*
AL	RW	CLineRWforPSECrvDataText	*Center Line RW for PSE Curve Data Text*
AL	RW	CLineRWforPSECrvePtCircle	*Center Line RW for PSE Curve Point Circle*
AL	RW	CLineRWforPSELineDesText	*Center Line RW for PSE Line Designation Text*
AL	RW	CLineRWforPSEMajorStaText	*Center Line RW for PSE Major Station Text*
AL	RW	CLineRWforPSEPCPIPTText	*Center Line RW for PSE PC PI PT Text*
AL	RW	CLineRWforPSEPItoPILine	*Center Line RW for PSE PI to PI Line*
AL	RW	CLineRWforPSESRNoText	*Center Line RW for PSE SR Number Text*
AL	RW	CLineRWforPSEStaEquaText	*Center Line RW for PSE Station Equation Text*
AL	RW	CLineRWforPSEStaEquation	*Center Line RW for PSE Station Equation*
AL	RW	CLineRWforPSEStationText	*Center Line RW for PSE Station Text*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
AL	RW	CLineRWforPSETics	*Center Line RW for PSE Tics*
AL	SA	CLineWallNew	*Center Line Wall New*
AL	SA	CLineWallNewBearingsText	*Center Line Wall New Bearings Text*
AL	SA	CLineWallNewCrvDataText	*Center Line Wall New Curve Data Text*
AL	SA	CLineWallNewCurvePtCircle	*Center Line Wall New Curve Point Circle*
AL	SA	CLineWallNewLineDesText	*Center Line Wall New Line Designation Text*
AL	SA	CLineWallNewMajorStaText	*Center Line Wall New Major Station Text*
AL	SA	CLineWallNewPCPIPTText	*Center Line Wall New PC PI PT Text*
AL	SA	CLineWallNewPItoPILine	*Center Line Wall New PI to PI Line*
AL	SA	CLineWallNewSRNoText	*Center Line Wall New SR Number Text*
AL	SA	CLineWallNewStaEquaText	*Center Line Wall New Station Equation Text*
AL	SA	CLineWallNewStaEquation	*Center Line Wall New Station Equation*
AL	SA	CLineWallNewStationText	*Center Line Wall New Station Text*
AL	SA	CLineWallNewTics	*Center Line Wall New Tics*
SH	GI	ClipLimits	*Clip Limits*
RW	SC	ClosingCornerFound	*Closing Corner Found*
RW	SC	ClosingCornerFoundNorth	*Closing Corner Found North*
RW	SC	ClosingCornerNotFound	*Closing Corner Not Found*
UT	CM	CommunicationAntenna	*Communication Antenna*
UT	CM	CommunicationHandhole	*Communication Handhole*
UT	CM	CommunicationHandholeNew	*Communication Hand Hole New*
UT	CM	CommunicationMonopole	*Communication Monopole*
UT	CM	CommunicationPullBox	*Communication Pull Box*
UT	CM	CommunicationPullBoxNew	*Communication Pull Box New*
TR	TS	CommunicationsHub	*Communications Hub*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
TR	TS	CommunicationsHubNew	*Communications Hub New*
UT	CM	CommunicationUtilText	*Communication Utility Text*
UT	CM	CommunicationUtilTextNew	*Communication Utility Text New*
EV	LS	CommunityCorridorNew	*Community Corridor New*
EV	LS	CompostCoarse	*Compost Coarse*
EV	EC	CompostFilterSockNew	*Compost Filter Sock New*
EV	LS	CompostFine	*Compost Fine*
EV	LS	CompostMedium	*Compost Medium*
TR	WZ	ConcreteBarrier	*Concrete Barrier*
TR	WZ	ConcreteBarrierNew	*Concrete Barrier New*
EV	LS	ConcreteDecorative	*Concrete Decorative*
TR	WZ	ConcreteDividerBasicElev	*Concrete Divider Basic Elev*
DR	ST	ConcreteInletNew	*Concrete Inlet New*
ST	GD	ConcretePontoonNew	*Concrete Pontoon New*
TP	MM	ConcreteSlab	*Concrete Slab*
TP	MM	ConcreteSlopeProtection	*Concrete Slope Protection*
TR	IL	ConduitandWiring	*Conduit and Wiring*
TR	SG	ConduitandWiring	*Conduit and Wiring*
TR	IL	ConduitandWiringNew	*Conduit and Wiring New*
TR	SG	ConduitandWiringNew	*Conduit and Wiring New*
TR	TS	ConduitandWiringTS	*Conduit and Wiring TS*
TR	TS	ConduitandWiringTSNew	*Conduit and Wiring TS New*
EV	EC	ConstrEntranceNew	*Construction Entrance New*
EV	EC	ConstrEntranceTireWashNew	*Construction Entrance Tire Wash New*
EV	WL	ConstructedWetlandNew	*Constructed Wetland New*
TR	IL	ConstructionNoteFlag	*Construction Note Flag*
TR	SG	ConstructionNoteFlag	*Construction Note Flag*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
SH	RS	ConstructionNoteFlag	*Construction Note Flag*
TR	SN	ConstructionSigns	*Construction Signs*
EV	EC	ContractorSensitiveArea	*Contractor Sensitive Area*
EV	IR	Controller	*Controller*
TR	IL	ControllerCabinet	*Controller Cabinet*
TR	SG	ControllerCabinet	*Controller Cabinet*
TR	SG	ControllerCabinetNew	*Controller Cabinet New*
TR	IL	ControllerCabinetNew	*Controller Cabinet New*
EV	IR	ControllerNew	*Controller New*
EV	EP	ConvBufferToStream	*Conversion Buffer To Stream*
EV	EP	ConvStreamToBuffer	*Conversion Stream To Stream Buffer*
EV	EP	ConvStreamToJurisDitch	*Conversion Stream To Jurisdictional Ditch*
EV	EP	ConvWetlandToStream	*Conversion Wetland To Stream*
RW	GB	CorpLimitLine	*Corp Limit Line*
RW	GB	CountyLine	*County Line*
SH	PR	CrossReferenceNotesText	*Cross Reference Notes Text*
DR	ST	Culvert	*Culvert*
DR	ST	CulvertNew	*Culvert New*
RD	CG	CurbFace	*Curb Face*
RD	CG	CurbFaceNew	*Curb Face New*
RD	CG	CurbGutterSidewalkText	*Curb Gutter Sidewalk Text*
RD	CG	CurbGutterSidewalkTextNew	*Curb Gutter Sidewalk Text New*
TP	CN	CutLineNew	*Cut Line New*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
TP	MM	Dam	*Dam*
TR	TS	DataStation	*Data Station*
TR	TS	DataStationNew	*Data Station New*
TP	MM	Deck	*Deck*
RW	SC	DescriptionsText	*Descriptions Text*
SH	GI	DestinationArrow	*Destination Arrow*
SH	GI	DestinationArrowsText	*Destination Arrows Text*
SH	DE	DetailBody1Text	*Detail Body 1 Text*
SH	DE	DetailBody2Text	*Detail Body 2 Text*
SH	DE	DetailHeading1Text	*Detail Heading 1 Text*
SH	DE	DetailHeading2Text	*Detail Heading 2 Text*
SH	DE	DetailHeading3Text	*Detail Heading 3 Text*
SH	DE	DetailLevel1	*Detail Level 1*
SH	DE	DetailLevel2	*Detail Level 2*
SH	DE	DetailLevel3	*Detail Level 3*
SH	DE	DetailLevel4	*Detail Level 4*
SH	DE	DetailLevel5	*Detail Level 5*
SH	DE	DetailLevel6	*Detail Level 6*
SH	DE	DetailLevel7	*Detail Level 7*
SH	DE	DetailLevel8	*Detail Level 8*
SH	DE	DetailLevel9	*Detail Level 9*
SH	DT	Details	*EC_Curb and Gutter Inlet Barrier*
SH	DT	Details	*EC_Stabilized Const Entrance A*
SH	DT	Details	*LS_Bat Box*
SH	DT	Details	*LS_Bat House 1*
SH	DT	Details	*LS_Bat House 2*
SH	DT	Details	*LS_Beaver Fence*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
SH	DT	Details	*LS_Brush Bale*
SH	DT	Details	*LS_Brush Layer 1*
SH	DT	Details	*LS_Brush Layer 2*
SH	DT	Details	*LS_Brush Layer 3*
SH	DT	Details	*LS_Brush Matteress Section*
SH	DT	Details	*LS_Brush Mattress 1*
SH	DT	Details	*LS_Brush Mattress 2*
SH	DT	Details	*LS_Brush Pile Anchored*
SH	DT	Details	*LS_Brush Pile Compost Chocked*
SH	DT	Details	*LS_Cardboard Mulch*
SH	DT	Details	*LS_Check Dam With Logs*
SH	DT	Details	*LS_Check Dam With Rock*
SH	DT	Details	*LS_Clay Liner*
SH	DT	Details	*LS_Compost Blanket*
SH	DT	Details	*LS_Compost Sock*
SH	DT	Details	*LS_Compost Sock Section*
SH	DT	Details	*LS_Compost Sock Stake Spacing*
SH	DT	Details	*LS_Compost Sock With Live Stake*
SH	DT	Details	*LS_Compost Sock with Stakes and Sedges*
SH	DT	Details	*LS_Control Module Box Detail*
SH	DT	Details	*LS_Ditch Section Typical*
SH	DT	Details	*LS_Earth Anchor*
SH	DT	Details	*LS_Fence Barbless 3 Wire*
SH	DT	Details	*LS_Gate Barbless Wire 5*
SH	DT	Details	*LS_Ground Cover*
SH	DT	Details	*LS_Ground Cover Layout 1*
SH	DT	Details	*LS_Ground Cover Layout2*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
SH	DT	Details	*LS_Habitat Log With Coconut Fiber*
SH	DT	Details	*LS_Interplanting*
SH	DT	Details	*LS_Lawn Edging*
SH	DT	Details	*LS_Live Fascine Elevation*
SH	DT	Details	*LS_Live Fascine Section*
SH	DT	Details	*LS_Live Pole Installation*
SH	DT	Details	*LS_Live Pole Installation Riprap*
SH	DT	Details	*LS_Live Stake Flat and Slope*
SH	DT	Details	*LS_Live Stake In Quarry Spalls*
SH	DT	Details	*LS_Live Stake In Riprap 1*
SH	DT	Details	*LS_Live Stake In Riprap 2*
SH	DT	Details	*LS_Live Stake Installation*
SH	DT	Details	*LS_Live Stake Installation On Slope*
SH	DT	Details	*LS_Live Stake Planting*
SH	DT	Details	*LS_Live Stake Rows 1*
SH	DT	Details	*LS_Live Stake Rows 2*
SH	DT	Details	*LS_Log Anchoring*
SH	DT	Details	*LS_Log With Rootwad*
SH	DT	Details	*LS_Log With Rootwad Stream Section*
SH	DT	Details	*LS_Median Drainage 1*
SH	DT	Details	*LS_Median Drainage 2*
SH	DT	Details	*LS_Mowing Strip*
SH	DT	Details	*LS_Nest Box*
SH	DT	Details	*LS_Plant After Bark No SA*
SH	DT	Details	*LS_Plant Area Above Ret Wall*
SH	DT	Details	*LS_Plant Area Back Berm*
SH	DT	Details	*LS_Plant Area Soil Prep In Former Rd*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
SH	DT	Details	*LS_Plant Area With Erosion Blanket*
SH	DT	Details	*LS_Plant Area With Top Soil*
SH	DT	Details	*LS_Plant Before Bark No SA*
SH	DT	Details	*LS_Plant Layout 1*
SH	DT	Details	*LS_Plant Layout 2*
SH	DT	Details	*LS_Plant Material List*
SH	DT	Details	*LS_Plant Spacing Island*
SH	DT	Details	*LS_Plant Spacing Rectangular*
SH	DT	Details	*LS_Planting Area Soil Prep 1*
SH	DT	Details	*LS_Planting Area Soil Prep 2*
SH	DT	Details	*LS_Planting Boston Ivy*
SH	DT	Details	*LS_Planting Emergent Pond*
SH	DT	Details	*LS_Planting Emergent Tuber Rhizome*
SH	DT	Details	*LS_Planting Hole With Drainage*
SH	DT	Details	*LS_Planting Pocket*
SH	DT	Details	*LS_Predator Guard For Nest Box*
SH	DT	Details	*LS_Raised Planting 1*
SH	DT	Details	*LS_Raised Planting 2*
SH	DT	Details	*LS_Raptor Nesting Platform*
SH	DT	Details	*LS_Raptor Perch*
SH	DT	Details	*LS_Reed Canary Grass Control*
SH	DT	Details	*LS_Roadway Section*
SH	DT	Details	*LS_Rock Pile*
SH	DT	Details	*LS_Rock Pile With Habitat Log*
SH	DT	Details	*LS_Sign Conservation Area Left*
SH	DT	Details	*LS_Sign Conservation Area Right*
SH	DT	Details	*LS_Sign Interplanting*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	DT	Details	*LS_Sign Native Growth Protect Area*
SH	DT	Details	*LS_Sign NGPA 1*
SH	DT	Details	*LS_Sign NGPA 2*
SH	DT	Details	*LS_Sign No Public Access*
SH	DT	Details	*LS_Sign Sesitive AreaOrBuffer*
SH	DT	Details	*LS_Sign Wetland Area*
SH	DT	Details	*LS_Slope Treatment*
SH	DT	Details	*LS_Stream Section Typical*
SH	DT	Details	*LS_Stump Depression Planting*
SH	DT	Details	*LS_Stump With Rootwad Anchoring*
SH	DT	Details	*LS_Thimble Cable Attach*
SH	DT	Details	*LS_Tree Elev*
SH	DT	Details	*LS_Tree Pit Planting*
SH	DT	Details	*LS_Tree Planting And Staking A*
SH	DT	Details	*LS_Tree Planting And Staking B*
SH	DT	Details	*LS_Tree Shrub Planting A*
SH	DT	Details	*LS_Tree Shrub Planting B*
SH	DT	Details	*LS_Tree Tying Elev*
SH	DT	Details	*LS_Tree Tying Plan*
SH	DT	Details	*LS_Tree Tying Plan And Elev*
SH	DT	Details	*LS_Vegetated Revetment 1*
SH	DT	Details	*LS_Vegetated Revetment 2*
SH	DT	Details	*LS_Wetland Creation*
SH	DT	Details	*LS_Wood Weir In Berm*
SH	DT	Details	*MS_Pit or Quarry Floor Detail*
SH	DT	Details	*MS_Potable H2O Station Plan*
SH	DT	Details	*PP_Quarry Spall Section*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	DT	Details	*RS_Approach Profile With Schedule*
SH	DT	Details	*RS_Approach Section With Schedule*
SH	DT	Details	*RS_BCTC Paving Section*
SH	DT	Details	*RS_Bridge Paving*
SH	DT	Details	*RS_BST Section*
SH	DT	Details	*RS_Curb Overlay Section*
SH	DT	Details	*RS_Divided MultiLane Hiway*
SH	DT	Details	*RS_Intersection Paving*
SH	DT	Details	*RS_Intersection Paving Ex Shoulders*
SH	DT	Details	*RS_Intersection Paving In Shoulders*
SH	DT	Details	*RS_Mailbox Turnout*
SH	DT	Details	*RS_Overlay Section*
SH	DT	Details	*RS_Overlay Section No Ditch*
SH	DT	Details	*RS_Overlay Shoulder Slope*
SH	DT	Details	*RS_Overlay Wide Shldr 1*
SH	DT	Details	*RS_Overlay Wide Shldr 2*
SH	DT	Details	*RS_SHLDR Design Inside Curve*
SH	DT	Details	*RS_SHLDR Design Outside Curve*
SH	DT	Details	*RS_SHLDR Flat Bottom Ditch*
SH	DT	Details	*RS_SHLDR Rock Lined Ditch Section*
SH	DT	Details	*RS_SHLDR Rounding Detail*
SH	DT	Details	*RS_SHLDR Widening 1*
SH	DT	Details	*RS_SHLDR Widening 2*
SH	DT	Details	*RS_SHLDR Widening 3*
SH	DT	Details	*RS_Subgrade Section*
SH	DT	Details	*RS_Surfacing Paving Section*
SH	DT	Details	*RS_Undivided MultiLane Hiway*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	DT	Details	*RS_Widening Channel WCurb*
SH	DT	Details	*SG_3 Signal Head*
SH	DT	Details	*SG_3 Signal Head and Notes*
SH	DT	Details	*SG_4 Signal Head*
SH	DT	Details	*SG_4 Signal Head and Notes*
SH	DT	Details	*SG_Double Signal Head Detail*
SH	DT	Details	*SG_Double Signal Head Notes1*
SH	DT	Details	*SG_Double Signal Head Notes2*
SH	DT	Details	*SG_Pedestrian Head*
SH	DT	Details	*WA_Gabion Cribbing*
SH	DT	Details	*WZ_Barrier Mount*
SH	DT	Details	*WZ_Concrete Barrier Post*
SH	DT	Details	*WZ_Guardrail Post*
SH	DT	Details	*WZ_Roadway Section Typical*
SH	DT	Details	*WZ_Shoulder Width*
TR	WZ	DetectableEdgeForPed	*Detectable Edge For Pedestrians*
DR	PP	DetentionPond	*Detention Pond*
DR	PP	DetentionPondBottom	*Detention Pond Bottom*
DR	PP	DetentionPondBottomNew	*Detention Pond Bottom New*
DR	PP	DetentionPondNew	*Detention Pond New*
TR	SG	DetLoopDiamond	*Detection Loop Diamond*
TR	SG	DetLoopDiamondNew	*Detection Loop Diamond New*
TR	SG	DetLoopType16x15	*Detection Loop Type 1 6x15*
TR	SG	DetLoopType16x15New	*Detection Loop Type 1 6x15 New*
TR	SG	DetLoopType16x30	*Detection Loop Type 1 6x30*
TR	SG	DetLoopType16x30New	*Detection Loop Type 1 6x30 New*
TR	SG	DetLoopType16x50	*Detection Loop Type 1 6x50*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	SG	DetLoopType16x50New	*Detection Loop Type 1 6x50 New*
TR	SG	DetLoopType26x6	*Detection Loop Type 2 6x6*
TR	SG	DetLoopType26x6New	*Detection Loop Type 2 6x6 New*
TR	SG	DetLoopType3	*Detection Loop Type 3*
TR	SG	DetLoopType3a	*Detection Loop Type 3a*
TR	SG	DetLoopType3aNew	*Detection Loop Type 3a New*
TR	SG	DetLoopType3New	*Detection Loop Type 3 New*
EV	EC	DewateringAreaNew	*Dewatering Area New*
TP	MM	Dike	*Dike*
SH	RS	DimensionLines	*Dimension Lines*
TP	MM	DistanceTie	*Distance Tie*
TP	MM	DistanceTieText	*Distance Tie Text*
EV	IR	Ditch	*Ditch*
DR	PP	DitchBottom	*Ditch Bottom*
DR	PP	DitchBottomNew	*Ditch Bottom New*
EV	IR	DitchNew	*Ditch New*
TP	MM	Dock	*Dock*
TR	WZ	Double2WayArrow	*Double 2 Way Arrow*
UT	GU	DownGuyAnchor	*Down Guy Anchor*
UT	GU	DownGuyAnchorNew	*Down Guy Anchor New*
DR	PP	DrainagePipesText	*Drainage Pipes Text*
DR	PP	DrainagePipesTextNew	*Drainage Pipes Text New*
DR	ST	DrainageStructuresText	*Drainage Structures Text*
DR	ST	DrainageStructuresTextNew	*Drainage Structures Text New*
UT	SS	Drainfield	*Drainfield*
UT	SS	DrainfieldDeactive	*Drainfield Deactive*
UT	SS	DrainfieldNew	*Drainfield New*

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Catagory	Sub-Cat.	Element Name	*Description*
DR	PP	DrainLine	*Drain Line*
DR	PP	DrainLineNew	*Drain Line New*
DR	PP	DrainPipe	*Drain Pipe*
DR	PP	DrainPipeNew	*Drain Pipe New*
RD	ED	DrivewayEdge	*Driveway Edge*
RD	ED	DrivewayEdgeNew	*Driveway Edge New*
RD	ED	DrivewayGravelEdge	*Driveway Gravel Edge*
RD	ED	DrivewayPavedEdge	*Driveway Paved Edge*
DR	ST	DropInlet	*Drop Inlet*
DR	ST	DropInletNew	*Drop Inlet New*
DR	ST	DryWell	*Dry Well*
DR	ST	DryWellNew	*Dry Well New*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	EC	EcologyDitchNew	*Ecology Ditch New*
UT	PW	ElectBox	*Elect Box*
UT	PW	ElectBoxNew	*Elect Box New*
TR	IL	ElectricalServiceCab	*Electrical Service Cab*
TR	IL	ElectricalServiceCabNew	*Electrical Service Cab New*
TR	SG	ElectServiceCabinet	*Elect Service Cabinet*
TR	SG	ElectServiceCabinetNew	*Elect Service Cabinet New*
SH	RP	ElevationLabelsText	*Elevation Labels Text*
SH	DP	ElevationsLabelsText	*Elevations Labels Text*
EV	WL	EmergentFreshMarsh	*Emergent Fresh Marsh*
EV	WL	EmergentFreshMarshNew	*Emergent Fresh Marsh New*
TR	SG	EmergPreemptDet	*Emergency Preem Point Detail*
TR	SG	EmergPreemptDetNew	*Emergency Preem Point Detail New*
TR	SG	EmergPreemptIndicator	*Emergency Preem Point Indicator*
TR	SG	EmergPreemptIndicatorNew	*Emergency Preem Point Indicator New*
UT	PW	EngineGenerator	*Engine Generator*
UT	PW	EngineGeneratorNew	*Engine Generator New*
EV	EP	EnviroPermitText	*Enviro Permit Text*
EV	EP	EnviroPermitTextNew	*Enviro Permit Text New*
EV	EC	ErosionControlText	*Erosion Control Text*
EV	EC	ErosionControlTextNew	*Erosion Control Text New*
RW	PA	ERParcelNumber	*ER Parcel Number*
RW	ES	EsmntLineNew	*Easement Line New*
EV	WL	EstITidalHiSaltMarsh	*Estuary Itidal Hi Salt Marsh*
EV	WL	EstITidalHiSaltMarshNew	*Estuary ITidal Hi Salt Marsh New*
EV	WL	EstSTidalLoSaltMarsh	*Estuary Stidal Lo Salt Marsh*
EV	WL	EstSTidalLoSaltMarshNew	*Estuary STidal Lo Salt Marsh New*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	PS	ExhibitMapLandscape	*PSE Exhibit Map Landscape*
SH	PS	ExhibitMapPortrait	*PSE Exhibit Map Portrait*
TR	SG	ExpanFitAXDXNew	*Expansion Fit AX DX New*
TR	IL	ExpanFitAXDXNew	*Expansion Fit AX DX New*
TR	IL	ExpanFitDXNew	*Expansion Fit DX New*
TR	SG	ExpanFitDXNew	*Expansion Fit DX New*
SH	BT	ExStructureHiddenLine	*Ex Structure Hidden Line*
SH	BT	ExStructureReferenceLine	*Ex Structure Reference Line*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	LS	Fascine	*Fascine*
EV	LS	FeatureHabitat	*Feature Habitat*
EV	LS	FeatureLandscape	*Feature Landscape*
EV	LS	FeatureLandscapeNew	*Feature Landscape New*
RD	BR	Fence	*Fence*
EV	EC	FenceHighVisConstNew	*Fence High Vis Const New*
EV	EC	FenceHighVisSiltNew	*Fence High Vis Silt New*
RD	BR	FenceNew	*Fence New*
EV	LS	FenceRestrictedAccess	*Fence Restricted Access*
EV	EC	FenceSiltNew	*Fence Silt New*
EV	EC	FenceTurbidityCurtainNew	*Fence Turbidity Curtain New*
TR	TS	FiberTerminalCabinet	*Fiber Terminal Cabinet*
TR	TS	FiberTerminalCabinetNew	*Fiber Terminal Cabinet New*
TP	MM	FieldLine	*Field Line*
TP	CN	FillLineNew	*Fill Line New*
EV	LS	FilterStripVegetativeNew	*Filter Strip Vegetative New*
SH	DP	FinishGroundProfile	*Finish Ground Profile*
UT	WT	FireDeptConnPost	*Fire Depart Connection Post*
UT	WT	FireDeptConnWall	*Fire Depart Connection Wall*
UT	WT	FireHydrant	*Fire Hydrant*
UT	WT	FireHydrantNew	*Fire Hydrant New*
EV	EC	FishBlockNet	*Fish Block Net*
EV	WL	Flag	*Flag*
EV	IR	Flag	*Flag*
TR	WZ	FlaggingStation	*Flagging Station*
TP	MM	FlagPole	*Flag Pole*
TR	SG	FlashingBeacon	*Flashing Beacon*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	SG	FlashingBeaconNew	*Flashing Beacon New*
TP	NT	FlowArrow	*Flow Arrow*
SH	DP	FlowlineText	*Flow Line Text*
SH	DP	FlowlineTextNew	*Flow Line Text New*
TR	IL	FluorescentLight	*Fluorescent Light*
UT	SS	ForceMain	*Force Main*
TP	NT	Forest	*Forest*
RW	GB	ForestBndry	*Forest Boundary*
EV	WL	Forested	*Forested*
EV	WL	ForestedNew	*Forested New*
TP	MM	Foundation	*Foundation*
EV	LS	Furnishings	*Furnishings*
EV	LS	FurnishingsNew	*Furnishings New*

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Catagory	Sub-Cat.	Element Name	*Description*
ST	WA	GabionWall	*Gabion Wall*
ST	WA	GabionWallNew	*Gabion Wall New*
UT	GS	GasLine	*Gas Line*
UT	GS	GasLineNew	*Gas Line New*
UT	GS	GasMeterBox	*Gas Meter Box*
UT	GS	GasMeterBoxNew	*Gas Meter Box New*
TP	MM	GasTank	*Gas Tank*
UT	GS	GasUtilitiesText	*Gas Utilities Text*
UT	GS	GasUtilitiesTextNew	*Gas Utilities Text New*
RD	BR	Gate	*Gate*
ST	GD	GateAccessHatchNew	*Gate Access Hatch New*
ST	GD	GateBallastPipineNew	*Gate Ballast Pipeline New*
ST	GD	GateBulkheadNew	*Gate Bulkhead New*
ST	GD	GateConcBeyondSolidNew	*Gate Concrete Beyond Solid New*
ST	GD	GateConcreteBeyondNew	*Gate Concrete Beyond New*
ST	GD	GateConcreteNew	*Gate Concrete New*
ST	GD	GateConcreteSectionNew	*Gate Concrete Section New*
ST	GD	GateEarthNew	*Gate Earth New*
ST	GD	GateElecComponentNew	*Gate Electrical Component New*
ST	GD	GateFishScreenNew	*Gate Fish Screen New*
ST	GD	GateGrateNew	*Gate Grate New*
ST	GD	GateHatchlinesNew	*Gate Hatchlines New*
ST	GD	GateHCSNew	*Gate HCS New*
ST	GD	GateHiddenNew	*Gate Hidden New*
ST	GD	GateJambNew	*Gate Jamb New*
RD	BR	GateNew	*Gate New*
ST	GD	GatePileNew	*Gate Pile New*

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Catagory	Sub-Cat.	Element Name	*Description*
ST	GD	GateSillNew	*Gate Sill New*
RD	BR	GateSingle	*Gate Single*
RD	BR	GateSingleNew	*Gate Single New*
ST	GD	GateSteelBeyondNew	*Gate Steel Beyond New*
ST	GD	GateSteelDetailNew	*Gate Steel Detail New*
ST	GD	GateSteelNew	*Gate Steel New*
ST	GD	GateWeldNew	*Gate Weld New*
SH	GI	GeneralNotesBodyText	*General Notes Body Text*
SH	GI	GeneralNotesHeadingText	*General Notes Heading Text*
UT	GU	GeneralUtilitiesText	*General Utilities Text*
UT	GU	GeneralUtilitiesTextNew	*General Utilities Text New*
TP	MM	GeoTechInstrument	*GeoTech Instrument*
RW	GB	GovtBndryText	*Government Boundary Text*
RW	SC	GovtLotIDText	*Government Lot ID Text*
DR	ST	GrateInlet	*Grate Inlet*
DR	ST	GrateInletNew	*Grate Inlet New*
TP	MM	GravelParkingArea	*Gravel Parking Area*
ST	GD	GravingDocksTextNew	*Graving Docks Text New*
UT	PW	GroundRod	*Ground Rod*
EV	LS	GroundWaterContours	*Ground Water Contours*
TP	MM	GrubLineNew	*Grub Line New*
RD	BR	Guardrail	*Guardrail*
TR	WZ	GuardrailElev	*Guardrail Elev*
RD	BR	GuardrailNew	*Guardrail New*
RD	BR	GuidePost	*Guide Post*
RD	BR	GuidePostNew	*Guide Post New*
TR	WZ	GuidePostNewElev	*Guide Post New Elev*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
TR	WZ	GuidePostTemp	*Guide Post Temp*
TR	SN	GuideSigns	*Guide Signs*
UT	GU	GuyPole	*Guy Pole*
UT	GU	GuyPoleNew	*Guy Pole New*
UT	GU	GuyWire	*Guy Wire*
UT	GU	GuyWireNew	*Guy Wire New*

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Catagory	Sub-Cat.	Element Name	*Description*
TP	MM	HandRail	*Hand Rail*
TR	TS	HARControlCabinet	*HAR Control Cabinet*
TR	TS	HARControlCabinetNew	*HAR Control Cabinet New*
TR	TS	HARSign	*HAR Sign*
TR	TS	HARSignNew	*HAR Sign New*
TR	TS	HARTransmitter	*HAR Transmitter*
TR	TS	HARTransmitterNew	*HAR Transmitter New*
SH	BT	HatchingPattern	*Hatching Pattern*
RD	MK	HCapParkingSymb	*Handicap Parking Symbol*
RD	MK	HCapParkingSymbNew	*Handicap Parking Symbol New*
ST	GD	HCSElectricalNew	*HCS Electrical New*
ST	GD	HCSPipeHiddenNew	*HCS Pipe Hidden New*
ST	GD	HCSPipeNew	*HCS Pipe New*
ST	GD	HCSPumpHiddenNew	*HCS Pump Hidden New*
ST	GD	HCSPumpNew	*HCS Pump New*
ST	GD	HCSValveHiddenNew	*HCS Valve Hidden New*
ST	GD	HCSValveNew	*HCS Valve New*
SH	RS	Heading1Text	*Heading 1 Text*
SH	RS	Heading2Text	*Heading 2 Text*
SH	RS	Heading3Text	*Heading 3 Text*
DR	ST	HeadWall	*Head Wall*
DR	ST	HeadWallNew	*Head Wall New*
TP	MM	Hedge	*Hedge*
SH	BT	HiddenLineNew	*Hidden Line New*
TP	NT	HighWaterLine	*High Water Line*
RW	BD	HighwayRWBndryPSE	*Highway RW Boundary PSE*
RW	BD	HighwayRWBndryPSESOText	*Highway RW Boundary PSE SO Text*

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Catagory	Sub-Cat.	Element Name	*Description*
RD	MK	HOVSymb	*HOV Symbol*
RD	MK	HOVSymbNew	*HOV Symbol New*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	TI	IllumScheduleLarge	*Illumination Schedule Large*
SH	TI	IllumScheduleMedium	*Illumination Schedule Medium*
SH	TI	IllumScheduleSmall	*Illumination Schedule Small*
TR	IL	IllumText	*Illumination Text*
TR	IL	IllumTextNew	*Illumination Text New*
SH	TI	IllumWireScheduleLarge	*Illumination Wire Schedule Large*
SH	TI	IllumWireScheduleSmall	*Illumination Wire Schedule Small*
RD	BR	ImpactAttenuator	*Impact Attenuator*
TR	WZ	ImpactAttenuator40mph	*Impact Attenuator 40 mph*
TR	WZ	ImpactAttenuator60mph	*Impact Attenuator 60 mph*
RD	BR	ImpactAttenuatorNew	*Impact Attenuator New*
TR	WZ	ImpactAttenuatorTemp	*Impact Attenuator Temp*
SH	PI	ImpactTable	*Impact Table*
EV	EP	ImperviousArea	*Impervious Area*
TP	CN	IndexContour	*Index Contour*
TP	CN	IndexContourNew	*Index Contour New*
TP	CN	IndexContoursText	*Index Contours Text*
TP	CN	IndexContourTextNew	*Index Contour Text New*
TR	TS	InductionLoopType2Mod	*Induction Loop Type 2 Mod*
TR	TS	InductionLoopType2ModNew	*Induction Loop Type 2 Mod New*
EV	EC	InfiltrationTrenchNew	*Infiltration Trench New*
EV	EC	InletCover	*Inlet Cover*
EV	EC	InletCoverNew	*Inlet Cover New*
EV	EC	InletFilter	*Inlet Filter*
EV	EC	InletFilterNew	*Inlet Filter New*
EV	EC	InletInsert	*Inlet Insert*
EV	EC	InletInsertNew	*Inlet Insert New*

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Catagory	Sub-Cat.	Element Name	*Description*
DR	ST	InletSlotted	*Inlet Slotted*
DR	ST	InletSlottedNew	*Inlet Slotted New*
EV	EC	InterceptorDikeNew	*Interceptor Dike New*
EV	EC	InterceptorSwaleNew	*Interceptor Swale New*
RW	PA	InterchangeNamesText	*Interchange Names Text*
TP	CN	IntermedContourTextNew	*Intermediate Contour Text New*
TP	CN	IntermediateContour	*Intermediate Contour*
TP	CN	IntermediateContourNew	*Intermediate Contour New*
TP	CN	IntermediateContoursText	*Intermediate Contours Text*
TP	NT	IntermittentStream	*Intermittent Stream*
SH	RS	IntersectionSchedule	*Intersection Schedule*
TR	SN	InterstateShield	*Interstate Shield*
EV	IR	IrrigText	*Irrigation Text*
EV	IR	IrrigTextNew	*Irrigation Text New*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	TS	JBox1	*Junction Box Type 1*
TR	IL	JBox1	*Junction Box Type 1*
TR	SG	JBox1	*Junction Box Type 1*
TR	SG	JBox1New	*Junction Box Type 1 New*
TR	IL	JBox1New	*Junction Box Type 1 New*
TR	TS	JBox1New	*Junction Box Type 1 New*
TR	TS	JBox2	*Junction Box Type 2*
TR	SG	JBox2	*Junction Box Type 2*
TR	IL	JBox2	*Junction Box Type 2*
TR	SG	JBox2New	*Junction Box Type 2 New*
TR	IL	JBox2New	*Junction Box Type 2 New*
TR	TS	JBox2New	*Junction Box Type 2 New*
TR	SG	JBox3	*Junction Box Type 3*
TR	IL	JBox3	*Junction Box Type 3*
TR	TS	JBox4(Traffic-bearing)	*Junction Box Type 4 (Traffic-bearing)*
TR	SG	JBox4(Traffic-bearing)	*Junction Box Type 4 (Traffic-bearing)*
TR	IL	JBox4(Traffic-bearing)	*Junction Box Type 4 (Traffic-bearing)*
TR	SG	JBox4(Traffic-bearing)New	*Junction Box Type 4 (Traffic-bearing) New*
TR	TS	JBox4(Traffic-bearing)New	*Junction Box Type 4 (Traffic-bearing) New*
TR	IL	JBox4(Traffic-bearing)New	*Junction Box Type 4 (Traffic-bearing) New*
TR	SG	JBox5(Traffic-bearing)	*Junction Box Type 5 (Traffic-bearing)*
TR	TS	JBox5(Traffic-bearing)	*Junction Box Type 5 (Traffic-bearing)*
TR	IL	JBox5(Traffic-bearing)	*Junction Box Type 5 (Traffic-bearing)*
TR	TS	JBox5(Traffic-bearing)New	*Junction Box Type 5 (Traffic-bearing) New*
TR	IL	JBox5(Traffic-bearing)New	*Junction Box Type 5 (Traffic-bearing) New*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	SG	JBox5(Traffic-bearing)New	*Junction Box Type 5 (Traffic-bearing) New*
TR	SG	JBox6(Traffic-bearing)	*Junction Box Type 6 (Traffic-bearing)*
TR	IL	JBox6(Traffic-bearing)	*Junction Box Type 6 (Traffic-bearing)*
TR	TS	JBox6(Traffic-bearing)	*Junction Box Type 6 (Traffic-bearing)*
TR	SG	JBox6(Traffic-bearing)New	*Junction Box Type 6 (Traffic-bearing) New*
TR	IL	JBox6(Traffic-bearing)New	*Junction Box Type 6 (Traffic-bearing) New*
TR	TS	JBox6(Traffic-bearing)New	*Junction Box Type 6 (Traffic-bearing) New*
TR	SG	JBox7(NoLock)	*Junction Box Type 7 (No lock)*
TR	IL	JBox7(NoLock)	*Junction Box Type 7 (No lock)*
TR	TS	JBox7(NoLock)	*Junction Box Type 7 (No lock)*
TR	TS	JBox7(NoLock)New	*Junction Box Type 7 (No lock) New*
TR	SG	JBox7(NoLock)New	*Junction Box Type 7 (No lock) New*
TR	IL	JBox7(NoLock)New	*Junction Box Type 7 (No lock) New*
TR	IL	JBox8(WithLock)	*Junction Box Type 8 (With lock)*
TR	SG	JBox8(WithLock)	*Junction Box Type 8 (With lock)*
TR	TS	JBox8(WithLock)	*Junction Box Type 8 (With lock)*
TR	SG	JBox8(WithLock)New	*Junction Box Type 8 (With lock) New*
TR	IL	JBox8(WithLock)New	*Junction Box Type 8 (With lock) New*
TR	TS	JBox8(WithLock)New	*Junction Box Type 8 (With lock) New*
TR	IL	JBoxAerial	*Junction Box Aerial*
TR	TS	JBoxAerial	*Junction Box Aerial*
TR	SG	JBoxAerial	*Junction Box Aerial*
TR	IL	JBoxAerialNew	*Junction Box Aerial New*
TR	TS	JBoxAerialNew	*Junction Box Aerial New*
TR	SG	JBoxAerialNew	*Junction Box Aerial New*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	SG	JBoxNema	*Junction Box Nema*
TR	TS	JBoxNema	*Junction Box Nema*
TR	IL	JBoxNema	*Junction Box Nema*
TR	SG	JBoxNemaNew	*Junction Box Nema New*
TR	TS	JBoxNemaNew	*Junction Box Nema New*
TR	IL	JBoxNemaNew	*Junction Box Nema New*
TR	TS	JBoxUnknown	*Junction Box Unknown*
TR	SG	JBoxUnknown	*Junction Box Unknown*
TR	IL	JBoxUnknown	*Junction Unknown*
EV	EP	JurisdDitchImpactPerm	*Jurisd Ditch Impact Perm*
EV	EP	JurisdDitchImpactTemp	*Jurisd Ditch Impact Temp*
EV	EP	JurisdictionalDitchLine	*Jurisdictional Ditch Line*

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Catagory	Sub-Cat.	Element Name	*Description*
RW	BD	LAccessFloatingLtNew	*LAccess Floating Left New*
RW	BD	LAccessFloatingRtNew	*LAccess Floating Right New*
RW	BD	LAccessProposedRWLt	*LAccess Proposed RW Left*
RW	BD	LAccessProposedRWRt	*LAccess Proposed RW Right*
TP	NT	LakeEdge	*Lake Edge*
EV	LS	LandscapeText	*Landscape Text*
EV	LS	LandscapeTextNew	*Landscape Text New*
TR	TS	LaneControlSign	*Lane Control Sign*
TR	TS	LaneControlSignNew	*Lane Control Sign New*
RD	ED	LaneEdgeNew	*Lane Edge New*
TP	NT	LargeBodyofWaterEdge	*Large Body of Water Edge*
EV	LS	LargeWoodyMaterial	*Large Woody Material*
SH	GI	LAStamp	*LA Stamp*
TR	WZ	LawEnforcementFlagger	*Law Enforcement Flagger*
SH	PS	LegendAbbreviations	*Legend Abbreviations*
SH	GI	LegendTemplate	*Legend Template*
SH	PI	LegendTemplate1	*Legend Template 1*
SH	PI	LegendTemplate2	*Legend Template 2*
EV	EC	LevelSpreaderNew	*Level Spreader New*
TR	IL	LightPole	*Light Pole*
TR	SG	LightStdCellWithNumberNew	*Light Standard Cell With Number New*
TR	IL	LightStdCellWithNumberNew	*Light Standard Cell With Number New*
TR	IL	LightStdDblMetal	*Light Standard Double Metal*
TR	SG	LightStdDblMetal	*Light Standard Double Metal*
TR	IL	LightStdDblMetalNew	*Light Standard Double Metal New*
TR	SG	LightStdDblMetalNew	*Light Standard Double Metal New*
TR	IL	LightStdDblTimber	*Light Standard Double Timber*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	SG	LightStdDblTimber	*Light Standard Double Timber*
TR	IL	LightStdDblTimberNew	*Light Standard Double Timber New*
TR	SG	LightStdDblTimberNew	*Light Standard Double Timber New*
TR	IL	LightStdGeneric	*Light Standard Generic*
TR	SG	LightStdGeneric	*Light Standard Generic*
TR	IL	LightStdGenericNew	*Light Standard Generic New*
TR	SG	LightStdGenericNew	*Light Standard Generic New*
TR	IL	LightStdQuadMetal	*Light Standard Quad Metal*
TR	SG	LightStdQuadMetal	*Light Standard Quad Metal*
TR	SG	LightStdQuadMetalNew	*Light Standard Quad Metal New*
TR	IL	LightStdQuadMetalNew	*Light Standard Quad Metal New*
TR	SG	LightStdSixMetal	*Light Standard Six Metal*
TR	IL	LightStdSixMetal	*Light Standard Six Metal*
TR	IL	LightStdSixMetalNew	*Light Standard Six Metal New*
TR	SG	LightStdSixMetalNew	*Light Standard Six Metal New*
TR	SG	LightStdSnglMetal	*Light Standard Single Metal*
TR	IL	LightStdSnglMetal	*Light Standard Single Metal*
TR	IL	LightStdSnglMetalNew	*Light Standard Single Metal New*
TR	SG	LightStdSnglMetalNew	*Light Standard Single Metal New*
TR	IL	LightStdSnglTimber	*Light Standard Single Timber*
TR	SG	LightStdSnglTimber	*Light Standard Timber Metal*
TR	IL	LightStdSnglTimberNew	*Light Standard Single Timber New*
TR	SG	LightStdSnglTimberNew	*Light Standard Timber Metal New*
TR	IL	LightStdTimberTempNew	*Light Standard Timber Temp New*
TR	SG	LightStdTimberTempNew	*Light Standard Timber Temp New*
TR	IL	LightStdTriMetal	*Light Standard Tri Metal*
TR	SG	LightStdTriMetal	*Light Standard Tri Metal*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	IL	LightStdTriMetalNew	*Light Standard Tri Metal New*
TR	SG	LightStdTriMetalNew	*Light Standard Tri Metal New*
RW	ES	LimitsofConstructionNew	*Limits of Construction New*
SH	GI	LineBreakLg	*Line Break Large*
SH	GI	LineBreakSm	*Line Break Small*
RD	MK	LineCrosswalk	*Line Crosswalk*
RD	MK	LineCrosswalkNew	*Line Crosswalk New*
SH	RP	LineDesignationText	*Line Designation Text*
EV	IR	LineDrip	*Line Drip*
EV	IR	LineDripNew	*Line Drip New*
RD	MK	LineGeneric	*Line Generic*
RD	MK	LineGenericNew	*Line Generic New*
EV	IR	LineLateral	*Line Lateral*
EV	IR	LineLateralNew	*Line Lateral New*
EV	IR	LineMain	*Line Main*
EV	IR	LineMainNew	*Line Main New*
RD	MK	LineRPMSkip	*Line RPM Skip*
RD	MK	LineRPMSkipNew	*Line RPM Skip New*
RD	MK	LineRPMSolid	*Line RPM Solid*
RD	MK	LineRPMSolidNew	*Line RPM Solid New*
EV	IR	LineSizeText	*Line Size Text*
RD	MK	LineSkipCenter	*Line Skip Center*
RD	MK	LineSkipCenterNew	*Line Skip Center New*
RD	MK	LineStop	*Line Stop*
RD	MK	LineStopNew	*Line Stop New*
EV	IR	LineUnknown	*Line Unknown*
RD	MK	LineWide	*Line Wide*

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Catagory	Sub-Cat.	Element Name	*Description*
RD	MK	LineWideNew	*Line Wide New*
EV	LS	LivePoleCutting	*Live Pole Cutting*
EV	LS	LiveStakeCutting	*Live Stake Cutting*
TR	WZ	LocalLawEnforcement	*Local Law Enforcement*
EV	LS	Log	*Log 1*
EV	LS	Log	*Log 2*
EV	LS	Log	*Log 3*
EV	LS	Log	*Log 4*
EV	LS	Log	*Log 5*
EV	LS	Log	*Log 6*
EV	LS	Log	*Log 7*
EV	LS	Log	*Log 8*
TR	WZ	LongitudinalChanDevice	*Longitudinal Channelizing Device*
SH	EI	LS_Legend1	*LS_Legend 1*
SH	EI	LS_Legend2	*LS_Legend 2*
SH	EI	LS_PiezometerTable	*LS_Piezometer Table*
SH	EI	LS_PlantListNote	*LS_Plant List Note*
SH	EI	LS_PlantMaterialSetbackChart1	*LS_Plant Material Setback Chart 1*
SH	EI	LS_PlantMaterialSetbackChart2	*LS_Plant Material Setback Chart 2*
SH	EI	LS_QuantityTabs	*LS_Quantity Tabs*
TR	IL	LuminaireDblUnderdeck	*Luminaire Double Underdeck*
TR	IL	LuminaireDblUnderdeckNew	*Luminaire Double Underdeck New*
SH	TI	LuminaireSchedule40	*Luminaire Schedule 40*
TR	IL	LuminaireUnderdeck	*Luminaire Underdeck*
TR	IL	LuminaireUnderdeckNew	*Luminaire Underdeck New*

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Catagory	Sub-Cat.	Element Name	*Description*
TP	MM	MailBox	*Mail Box*
TP	MM	MailBoxNew	*Mail Box New*
SH	GI	MajorGridline	*Major Gridline*
UT	CM	Manhole	*Communications Manhole*
DR	ST	Manhole	*Manhole*
UT	CM	ManholeNew	*Communications Manhole New*
DR	ST	ManholeNew	*Manhole New*
TP	MM	ManmadeTopographyText	*Manmade Topography Text*
TP	NT	MarshEdge	*Marsh Edge*
TR	SG	MastArmSign	*Mast Arm Sign*
TR	SG	MastArmSignNew	*Mast Arm Sign New*
TR	SG	MastArmTenonNew	*Mast Arm Tenon New*
SH	GI	MatchLine	*Match Line*
SH	GI	MatchLineText	*Match Line Text*
SH	RS	MaterialIDBlock	*Material ID Block*
SH	RS	MaterialIDFlag	*Material ID Flag*
ST	GD	MechGatePipeHiddenNew	*Mechanical Gate Pipe Hidden New*
ST	GD	MechGatePipeNew	*Mechanical Gate Pipe New*
ST	GD	MechGatePumpNew	*Mechanical Gate Pump New*
ST	GD	MechSchemSymbols	*Mechanical Schematic Symbols*
EV	LS	MediaFilterDrainNew	*Media Filter Drain New*
EV	LS	MediaFilterDrainNoDirNew	*Media Filter Drain No Dir New*
EV	IR	Meter	*Meter*
EV	IR	MeterNew	*Meter New*
SH	GI	MinorGridline	*Minor Gridline*
SH	TI	MinTaperLength25to35Note	*Min Taper Length 25 to 35 Note*
SH	TI	MinTaperLength25to40Note	*Min Taper Length 25 to 40 Note*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	TI	MinTaperLength25to45Note	*Min Taper Length 25 to 45 Note*
SH	TI	MinTaperLength25to50Note	*Min Taper Length 25 to 50 Note*
SH	TI	MinTaperLength25to55Note	*Min Taper Length 25 to 55 Note*
SH	TI	MinTaperLength25to60Note	*Min Taper Length 25 to 60 Note*
SH	TI	MinTaperLength25to70Note	*Min Taper Length 25 to 70 Note*
SH	TI	MinTaperLength40to70Note	*Min Taper Length 40 to 70 Note*
SH	TI	MinTaperLength45to70Note	*Min Taper Length 45 to 70 Note*
SH	TI	MinTaperLength55to70Note	*Min Taper Length 55 to 70 Note*
SH	TI	MinTaperLengthFullNote	*Min Taper Length Full Note*
SH	PI	MitigationTable	*Mitigation Table*
TP	MM	MonitorWell	*Monitor Well*
TP	MM	MonitorWellNew	*Monitor Well New*
TR	SN	MonotubeCantilever	*Monotube Cantilever*
TR	SN	MonotubeCantileverNew	*Monotube Cantilever New*
TR	SN	MonotubeSignBridge	*Monotube Sign Bridge*
TR	SN	MonotubeSignBridgeNew	*Monotube Sign Bridge New*
PM	MN	MonumentCalcd	*Monument Calculated*
PM	MN	MonumentCaseandCover	*Monument Case and Cover*
PM	MN	MonumentCaseandCoverNew	*Monument Case and Cover New*
PM	MN	MonumentFound	*Monument Found*
PM	MN	MonumentNew	*Monument New*
ST	GD	MoorageDolphinNew	*Moorage Dolphin New*
ST	GD	MooragePileNew	*Moorage Pile New*
TR	WZ	MotoristVehicle	*Motorist Vehicle*
EV	EP	MudflatsImpactPerm	*Mudflats Impact Permanent*
EV	EP	MudflatsImpactTemp	*Mudflats Impact Temporary*
EV	EC	MulchingandMattingNew	*Mulching and Matting New*

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Catagory	Sub-Cat.	Element Name	*Description*
UT	MT	MultiUtilitiesText	*Multi Utilities Text*
UT	MT	MultiUtilitiesTextNew	*Multi Utilities Text New*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	GI	NADDatumSymbol	*NAD Datum Symbol*
TP	NT	NaturalTopographyText	*Natural Topography Text*
TP	NT	NavigationChannel	*Navigation Channel*
TP	MM	NavigationChannel	*Navigation Channel*
TR	IL	NavigationLight	*Navigation Light*
TR	IL	NavigationLightNew	*Navigation Light New*
RW	PA	NCRParcelNumber	*NCR Parcel Number*
RD	BM	NoiseBerm	*Noise Berm*
RD	BM	NoiseBermNew	*Noise Berm New*
ST	WA	NoiseWall	*Noise Wall*
ST	WA	NoiseWallNew	*Noise Wall New*
SH	GI	NorthArrow(RotatetoActive)	*North Arrow (Rotate to Active)*
SH	GI	NorthArrow(RotatetoReference)	*North Arrow (Rotate to Reference)*
RW	PA	NWRParcelNumber	*NWR Parcel Number*

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Catagory	Sub-Cat.	Element Name	*Description*
TP	NT	Obstruction	*Obstruction*
UT	GS	OilLine	*Oil Line*
UT	GS	OilLineNew	*Oil Line New*
TP	MM	OilTank	*Oil Tank*
RD	MK	OnlySymbol	*Only Symbol*
RD	MK	OnlySymbolNew	*Only Symbol New*
DR	ST	OpenFlowRestrictor	*Open Flow Restrictor*
DR	ST	OpenFlowRestrictorNew	*Open Flow Restrictor New*
EV	WL	OpenFreshPond	*Open Fresh Pond*
EV	WL	OpenFreshPondNew	*Open Fresh Pond New*
TP	MM	OrchardOrVineyard	*Orchard Or Vineyard*
SH	DP	OriginalGroundProfile	*Original Ground Profile*
SH	RP	OriginalGroundProfile	*Original Ground Profile*
RW	PA	ORParcelNumber	*OR Parcel Number*
SH	BT	OutlineorVisibleLine	*Outline or Visible Line*
TR	SN	OverheadSign	*Overhead Sign*
TR	SN	OverheadSignNew	*Overhead Sign New*

S5.04 Alphabetical Listing of Standard Symbols

The alphabetical listing below provides a complete list of standard Plans, Specifications, and Estimates (PS&E) symbology by element name. The name of the element is prepended with a Category code and Group (or sub-category) code to help organize symbology.

Catagory	Sub-Cat.	Element Name	*Description*
RW	GB	ParkBndry	*Park Boundary*
TP	MM	Patio	*Patio*
TP	MM	PavedArea	*Paved Area*
RD	ED	PavedAreaNew	*Paved Area New*
TP	MM	PavedParkingArea	*Paved Parking Area*
RD	ED	PavedParkingAreaNew	*Paved Parking Area New*
RD	ED	PavementRemovalBndry	*Pavement Removal Boundary*
SH	TI	PCMSBlockSequence	*PCMS Block Sequence*
TR	WZ	PedestrianChanDevice	*Pedestrian Channelizing Device*
TR	SG	PedestrianLightNew	*Pedestrian Light New*
RD	ED	PedPathEdge	*Pedestrian Path Edge*
RD	ED	PedPathEdgeNew	*Pedestrian Path Edge New*
TR	SG	PedPushButton	*Pedestrian PushButton*
TR	SG	PedPushButtonNew	*Pedestrian PushButton New*
TR	SG	PedPushButtonPost	*Pedestrian PushButton Post*
TR	SG	PedPushButtonPostNew	*Pedestrian PushButton PostNew*
TR	SG	PedSignalHeadDbl	*Pedestrian Signal Head Dbl*
TR	SG	PedSignalHeadDblNew	*Pedestrian Signal Head Dbl New*
TR	SG	PedSignalHeadL	*Pedestrian Signal Head L*
TR	SG	PedSignalHeadLNew	*Pedestrian Signal Head L New*
TR	SG	PedSignalHeadR	*Pedestrian Signal Head R*
TR	SG	PedSignalHeadRNew	*Pedestrian Signal Head R New*
TR	SG	PedSignalHeadST	*Pedestrian Signal Head ST*
TR	SG	PedSignalHeadSTNew	*Pedestrian Signal Head ST New*
RW	ES	PermitLineNew	*Permit Line New*
TR	WZ	PermittedContractorAccess	*Permitted Contractor Access*
TR	TS	PermTrafficRecorderCab	*Perm Traffic Recorder Cab*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	TS	PermTrafficRecorderCabNew	*Perm Traffic Recorder Cab New*
EV	EP	PerviousArea	*Pervious Area*
SH	PS	PFADesignDataBox	*PFA Design Data Box*
SH	PS	PFAPlanSheet	*PFA Plan Sheet*
SH	TI	PhaseDiagram	*Phase Diagram*
PM	PH	PhotoCenter	*Photo Center*
PM	PH	PhotoControlPointsText	*Photo Control Points Text*
PM	PH	PhotoGridTic	*Photo Grid Tic*
PM	PH	PhotoHorVertControlPoint	*Photo Horizontal Vertical Control Point*
PM	PH	PhotoVertControlPoint	*Photo Vertical Control Point*
TP	MM	Piezometer	*Piezometer*
TP	MM	PiezometerNew	*Piezometer New*
EV	LS	PileBrush	*Pile Brush*
EV	LS	PileLog	*Pile Log*
EV	LS	PileRock	*Pile Rock*
TP	MM	Piling	*Piling*
TP	MM	Pipe	*Pipe*
SH	DP	Pipe	*Pipe*
UT	GU	PipeBraceAnchor	*Pipe Brace Anchor*
UT	GU	PipeBraceAnchorNew	*Pipe Brace Anchor New*
SH	DP	PipeNew	*Pipe New*
EV	EC	PipeSlopeDrainNew	*Pipe Slope Drain New*
TR	IL	PitchforkLight	*Pitchfork Light*
TR	IL	PitchforkLightNew	*Pitchfork Light New*
EV	LS	PlantingEmergentNew	*Planting Emergent New*
EV	LS	PlantingFloodplainAreaTy1	*Planting Floodplain Area Type 1*
EV	LS	PlantingFloodplainAreaTy2	*Planting Floodplain Area Type 2*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	LS	PlantingForested	*Planting Forested*
EV	LS	PlantingMixA	*Planting Mix A*
EV	LS	PlantingMixB	*Planting Mix B*
EV	LS	PlantingMixC	*Planting Mix C*
EV	LS	PlantingMixD	*Planting Mix D*
EV	LS	PlantingMixE	*Planting Mix E*
EV	LS	PlantingMixF	*Planting Mix F*
EV	LS	PlantingMixG	*Planting Mix G*
EV	LS	PlantingMixH	*Planting Mix H*
EV	LS	PlantingMixI	*Planting Mix I*
EV	LS	PlantingMixJ	*Planting Mix J*
EV	LS	PlantingMixK	*Planting Mix K*
EV	LS	PlantingMixL	*Planting Mix L*
EV	LS	PlantingStormwaterBuffer	*Planting Stormwater Buffer*
EV	LS	PlantingStreamBuffer	*Planting Stream Buffer*
EV	LS	PlantingUpland	*Planting Upland*
EV	LS	PlantingWetlandRestore	*Planting Wetland Restore*
EV	EC	PlasticCoveringNew	*Plastic Covering New*
TR	SG	Pole	*Pole*
TR	IL	Pole	*Pole*
TR	IL	PoleNew	*Pole New*
TR	SG	PoleNew	*Pole New*
TR	IL	PoleNoteFlag	*Pole Note Flag*
TR	SG	PoleNoteFlag	*Pole Note Flag*
SH	TI	PoleSchedule	*Pole Schedule*
TP	NT	PondBottom	*Pond Bottom*
TP	NT	PondEdge	*Pond Edge*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
TR	WZ	PortableChangeMessageSign	*Portable Change Message Sign*
TR	WZ	PortableLightStandard	*Portable Light Standard*
TR	WZ	PortableSignalSystem	*Portable Signal System*
TR	WZ	PortableSignMount	*Portable Sign Mount*
TP	MM	PostMetal	*Post Metal*
TP	MM	PostWood	*Post Wood*
UT	PW	PowerBox	*Power Box*
UT	PW	PowerBoxNew	*Power Box New*
UT	PW	PowerHandhole	*Power Handhole*
UT	PW	PowerHandholeNew	*Power Hand Hole New*
UT	PW	PowerManhole	*Power Manhole*
UT	PW	PowerManholeNew	*Power Manhole New*
UT	PW	PowerMeterBox	*Power Meter Box*
TR	TS	PowerPanel	*Power Panel*
TR	TS	PowerPanelNew	*Power Panel New*
UT	PW	PowerPole	*Power Pole*
UT	PW	PowerPoleNew	*Power Pole New*
UT	PW	PowerPullBox	*Power Pull Box*
UT	PW	PowerPullBoxNew	*Power Pull Box New*
UT	PW	PowerUtilitiesText	*Power Utilities Text*
UT	PW	PowerUtilitiesTextNew	*Power Utilities Text New*
SH	TI	PreemptionSchedule	*Preemption Schedule*
PM	MN	PrimaryControlPoint	*Primary Control Point*
SH	PS	PSEBridgeSheet	*PSE Bridge Sheet*
SH	PS	PSECorpsofEngineersSheetSingl	*PSE Corps of Engineers Sheet Single*
SH	PS	PSECurveDataBlock	*PSE Curve Data Block*
SH	PS	PSEIndexSheet	*PSE Index Sheet*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	PS	PSELandscapeSheet	*PSE Landscape Sheet*
SH	GI	PSEPEStamp	*PSE PE Stamp*
SH	PS	PSEPlanProfileSheet	*PSE Plan Profile Sheet*
SH	PS	PSEPlanSheet	*PSE Plan Sheet*
SH	PS	PSEProfileSheet	*PSE Profile Sheet*
SH	GI	PSEStructuralEngStamp	*PSE Structural Engineering Stamp*
SH	PS	PSETotalCurveDataBlock	*PSE Total Curve Data Block*
TR	IL	PullBox	*Pull Box*
TR	TS	PullBox	*Pull Box*
TR	IL	PullBoxNew	*Pull Box New*
TR	TS	PullBoxNew	*Pull Box New*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
SH	RP	QuantityBreakoutHorLines	*Quantity Breakout Horizontal Lines*
SH	DP	QuantityBreakoutHorzLines	*Quantity Breakout Horizontal Lines*
SH	RP	QuantityBreakoutText	*Quantity Breakout Text*
SH	DP	QuantityBreakoutText	*Quantity Breakout Text*
SH	RP	QuantityBreakoutVertLines	*Quantity Breakout Vertical Lines*
SH	DP	QuantityBreakoutVertLines	*Quantity Breakout Vertical Lines*
SH	PS	QuantityTabNoteFlag	*Quantity Tab Note Flag*
SH	PS	QuantityTabNoteFlagCont	*Quantity Tab Note Flag Cont*
SH	PS	QuantityTabNoteFlagContLg	*Quantity Tab Note Flag Cont Large*
ST	BG	QuarryBackfillNew	*Quarry Backfill New*
TP	MM	QuarryBndry	*Quarry Boundary*
ST	BG	QuarrySpallingNew	*Quarry Spalling New*
TP	MM	QuarrySymb	*Quarry Symbol*
RW	SC	QuarterCornerFoundEW	*Quarter Corner Found EW*
RW	SC	QuarterCornerFoundNS	*Quarter Corner Found NS*
RW	SC	QuarterCornerNotFoundEW	*Quarter Corner Not Found EW*
RW	SC	QuarterCornerNotFoundNS	*Quarter Corner Not Found NS*
RW	SC	QuarterSectionLine	*Quarter Section Line*

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Catagory	Sub-Cat.	Element Name	*Description*
RD	MK	RaisedPvmntMarkerType1	*Raised Pavement Marker Type 1*
RD	MK	RaisedPvmntMarkerType1New	*Raised Pavement Marker Type 1 New*
RD	MK	RaisedPvmntMarkerType2	*Raised Pavement Marker Type 2*
RD	MK	RaisedPvmntMarkerType2New	*Raised Pavement Marker Type 2 New*
RD	MK	RaisedPvmntMarkerType3	*Raised Pavement Marker Type 3*
RD	MK	RaisedPvmntMarkerType3New	*Raised Pavement Marker Type 3 New*
TR	SG	RampMeterSignal	*Ramp Meter Signal*
TR	SG	RampMeterSignalLT	*Ramp Meter Signal LT*
TR	SG	RampMeterSignalLTNew	*Ramp Meter Signal LT New*
TR	SG	RampMeterSignalNew	*Ramp Meter Signal New*
TR	SG	RampMeterSignalRT	*Ramp Meter Signal RT*
TR	SG	RampMeterSignalRTNew	*Ramp Meter Signal RT New*
RW	SC	RangeLine	*Range Line*
RW	SC	RangeLinesText	*Range Lines Text*
SH	BT	Rebar	*Rebar*
SH	BT	RebarNew	*Rebar New*
EV	EP	ReestablishWetland	*Reestablish Wetland*
SH	VM	RegionCellER	*Region Cell ER*
SH	VM	RegionCellNC	*Region Cell NC*
SH	VM	RegionCellNW	*Region Cell NW*
SH	VM	RegionCellOly	*Region Cell Olympic*
SH	VM	RegionCellSC	*Region Cell SC*
SH	VM	RegionCellSW	*Region Cell SW*
TR	SN	RegulatorySigns	*Regulatory Signs*
TR	TS	RemoteAmplifierCabinet	*Remote Amplifier Cabinet*
TR	TS	RemoteAmplifierCabinetNew	*Remote Amplifier Cabinet New*
RW	GB	ReservationBndry	*Reservation Boundary*

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Catagory	Sub-Cat.	Element Name	*Description*
TP	MM	Reservoir	*Reservoir*
ST	WA	RetainingWall	*Retaining Wall*
ST	WA	RetainingWallNew	*Retaining Wall New*
SH	GI	RevisionStrikeThroughLine	*Revision Strike Through Line*
EV	EP	RifflePoolImpactPerm	*Riffle Pool Complex Impact Permanent*
EV	EP	RifflePoolImpactTemp	*Riffle Pool Complex Impact Temporary*
EV	LS	Riparian	*Riparian*
TP	MM	RipRapEdge	*Rip Rap Edge*
TP	NT	RiverEdge	*River Edge*
EV	WL	RiverEdgeNew	*River Edge New*
EV	RH	RiverHydraulicsText	*River Hydraulics Text*
EV	LS	RoadsideCorridorNew	*Roadside Corridor New*
RD	ED	RoadwayEdgesText	*Roadway Edges Text*
RD	ED	RoadwayEdgesTextNew	*Roadway Edges Text New*
RD	ED	RoadwayETWGravel	*Roadway ETW Gravel*
RD	ED	RoadwayETWGravelNew	*Roadway ETW Gravel New*
RD	ED	RoadwayETWPaved	*Roadway ETW Paved*
RD	ED	RoadwayETWPavedNew	*Roadway ETW Paved New*
RD	MK	RoadwayMarkingText	*Roadway Marking Text*
RD	MK	RoadwayMarkingTextNew	*Roadway Marking Text New*
RD	MC	RoadwayNamesText	*Roadway Names Text*
EV	EP	RoadwayReclamation	*Roadway Reclamation*
SH	RP	RoadwaySectionHorzLines	*Roadway Section Horizontal Lines*
SH	RS	RoadwaySectionLegend	*Roadway Section Legend*
SH	RP	RoadwaySectionText	*Roadway Section Text*
SH	RP	RoadwaySectionVertLines	*Roadway Section Vertical Lines*
SH	RS	RoadwaySurfaceExisting	*Roadway Surface Existing*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	RS	RoadwaySurfaceNew	*Roadway Surface New*
EV	EP	RockClassB	*Rock Class B For Erosion Scour*
EV	EP	RockQuarrySpalls	*Rock Quarry Spalls*
TP	MM	RRCenterTracks	*RR Center Tracks*
TP	MM	RRCenterTracksNew	*RR Center Tracks New*
RW	BD	RRRWBndry	*RR RW Boundary*
ST	BG	RRStructure	*RR Structure*
ST	BG	RRStructureNew	*RR Structure New*
RD	MK	RRSymb	*RR Symbol*
RD	MK	RRSymbNew	*RR Symbol New*
TP	MM	RRText	*RR Text*
TP	MM	Ruins2D	*Ruins 2D*
RD	MK	RumbleStrip	*Rumble Strip*
RD	MK	RumbleStripNew	*Rumble Strip New*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	EC	SandBagorSackNew	*Sand Bag or Sack New*
UT	SS	SanSewerCleanOut	*San Sewer Clean Out*
UT	SS	SanSewerLine	*San Sewer Line*
UT	SS	SanSewerLineNew	*San Sewer Line New*
UT	SS	SanSewerManhole	*San Sewer Manhole*
UT	SS	SanSewerManholeNew	*San Sewer Manhole New*
UT	SS	SanSewerStormSewerCombo	*San Sewer Storm Sewer Combo*
UT	SS	SanSewerUtilitiesText	*San Sewer Utilities Text*
UT	SS	SanSewerUtilitiesTextNew	*San Sewer Utilities Text New*
RD	ED	Sawcut	*Sawcut*
RD	ED	SawcutNew	*Sawcut New*
RD	ED	SawcutTextNew	*Sawcut Text New*
SH	GI	ScaleBar100	*Scale Bar 100*
SH	GI	ScaleBar1000	*Scale Bar 1000*
SH	GI	ScaleBar20	*Scale Bar 20*
SH	GI	ScaleBar200	*Scale Bar 200*
SH	GI	ScaleBar2000	*Scale Bar 2000*
SH	GI	ScaleBar40	*Scale Bar 40*
SH	GI	ScaleBar50	*Scale Bar 50*
SH	GI	ScaleBar500	*Scale Bar 500*
TR	WZ	ScaleTerminalEndSection	*Scale Terminal End Section*
TR	TS	SCDIBox	*SCDI Box*
TR	TS	SCDIBoxNew	*SCDI Box New*
RW	PA	SCRParcelNumber	*SCR Parcel Number*
EV	WL	ScrubShrub	*Scrub Shrub*
EV	WL	ScrubShrubForested	*Scrub Shrub Forested*
EV	WL	ScrubShrubForestedNew	*Scrub Shrub Forested New*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	WL	ScrubShrubNew	*Scrub Shrub New*
RW	SC	SectionCornerFound	*Section Corner Found*
RW	SC	SectionCornerNotFound	*Section Corner Not Found*
SH	GI	SectionCut	*Section Cut*
RW	SC	SectionLine	*Section Line*
SH	BT	SectionLineNew	*Section Line New*
EV	EC	SedimentPondTemp	*Sediment Pond Temp*
EV	EC	SedimentTrapNew	*Sediment Trap New*
EV	LS	Seeding	*Seeding*
EV	LS	SeedingEmergent	*Seeding Emergent*
EV	EC	SeedingErosionControl	*Seeding Erosion Control*
EV	LS	SeedingLawn	*Seeding Lawn*
EV	LS	SeedingMixDryNative	*Seeding Mix Dry Native*
EV	LS	SeedingMixSpecial	*Seeding Mix Special*
EV	LS	SeedingMixWetNative	*Seeding Mix Wet Native*
EV	EC	SeedingTemp	*Seeding Temp*
TR	TS	Sensor	*Sensor*
TR	TS	SensorNew	*Sensor New*
TR	SN	SeqArrowSignBothNew	*Sequential Arrow Sign Both New*
TR	SN	SeqArrowSignLtNew	*Sequential Arrow Sign Left New*
TR	SN	SeqArrowSignRtNew	*Sequential Arrow Sign Right New*
TR	WZ	SequentialArrowTypeB	*Sequential Arrow Type B*
TR	WZ	SequentialArrowTypeC	*Sequential Arrow Type C*
RD	ED	ShoulderBSTEdge	*Shoulder BST Edge*
RD	ED	ShoulderGravelEdge	*Shoulder Gravel Edge*
RD	ED	ShoulderGravelEdgeNew	*Shoulder Gravel Edge New*
RD	ED	ShoulderPavedEdge	*Shoulder Paved Edge*

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Catagory	Sub-Cat.	Element Name	*Description*
RD	ED	ShoulderPavedEdgeNew	*Shoulder Paved Edge New*
EV	LS	Shrub	*Shrub Elev 1*
EV	LS	Shrub	*Shrub Elev 10*
EV	LS	Shrub	*Shrub Elev 2*
EV	LS	Shrub	*Shrub Elev 3*
EV	LS	Shrub	*Shrub Elev 4*
EV	LS	Shrub	*Shrub Elev 5*
EV	LS	Shrub	*Shrub Elev 6*
EV	LS	Shrub	*Shrub Elev 7*
EV	LS	Shrub	*Shrub Elev 8*
EV	LS	Shrub	*Shrub Elev 9*
TR	TS	SideMountDynamicSign	*Side Mount Dynamic Sign*
TR	TS	SideMountDynamicSignNew	*Side Mount Dynamic Sign New*
RD	CG	Sidewalk	*Sidewalk*
RD	CG	SidewalkNew	*Sidewalk New*
TR	WZ	Sign	*Sign*
TR	SN	Sign	*Sign*
TR	SG	SignalBoxUnknown	*Signal Box Unknown*
TR	SG	SignalHead	*Signal Head*
TR	SG	SignalHeadFutureNew	*Signal Head Future New*
TR	SG	SignalHeadHoriz	*Signal Head Horizontal*
TR	SG	SignalHeadHorizNew	*Signal Head Horizontal New*
TR	SG	SignalHeadNew	*Signal Head New*
SH	TI	SignalLegend	*Signal Legend*
TR	SG	SignalLoopUnknown	*Signal Loop Unknown*
TR	SG	SignalPoleUnknown	*Signal Pole Unknown*
TR	SG	SignalStdType1or4	*Signal Standard Type 1 or 4*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	SG	SignalStdType1or4New	*Signal Standard Type 1 or 4 New*
TR	SG	SignalStdType2	*Signal Standard Type 2*
TR	SG	SignalStdType2New	*Signal Standard Type 2 New*
TR	SG	SignalStdType3	*Signal Standard Type 3*
TR	SG	SignalStdType3New	*Signal Standard Type 3 New*
TR	SG	SignalStdType5	*Signal Standard Type 5*
TR	SG	SignalStdType5New	*Signal Standard Type 5 New*
TR	SG	SignalsText	*Signals Text*
TR	SG	SignalsTextNew	*Signals Text New*
TR	TS	SignalType1	*Signal Type 1*
TR	TS	SignalType1New	*Signal Type 1 New*
TR	TS	SignalType2	*Signal Type 2*
TR	TS	SignalType2New	*Signal Type 2 New*
TR	SN	SignBBoardMultiPost	*Sign Billboard Multi Post*
TR	SN	SignBBoardSnglPost	*Sign Billboard Single Post*
TR	SN	SignDblePost	*Sign Double Post*
TR	SN	SignDblePostNew	*Sign Double Post New*
SH	TI	SignDimensionNote	*Sign Dimension Note*
TR	SN	SignFlushWall	*Sign Flush Wall*
TR	SN	SignFlushWallNew	*Sign Flush Wall New*
TR	SN	SignFourPost	*Sign Four Post*
TR	SN	SignFromWall	*Sign From Wall*
TR	SN	SignFromWallNew	*Sign From Wall New*
TR	SN	SigningText	*Signing Text*
TR	SN	SigningTextNew	*Signing Text New*
TR	IL	SignLight	*Sign Light*
TR	IL	SignLightNew	*Sign Light New*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	WZ	SignMountTripod	*Sign Mount Tripod*
TR	SN	SignNew	*Sign New*
TR	WZ	SignNew	*Sign New*
TR	SN	SignNoteFlag	*Sign Note Flag*
TR	SN	SignNoteFlagLt	*Sign Note Flag Left*
TR	SN	SignNoteFlagRt	*Sign Note Flag Right*
TR	SN	SignRelocationNoteFlag	*Sign Relocation Note Flag*
TR	SN	SignRemovalNoteFlag	*Sign Removal Note Flag*
TR	SN	SignRemovalNoteFlagLt	*Sign Removal Note Flag Left*
TR	SN	SignRemovalNoteFlagRt	*Sign Removal Note Flag Right*
TR	SN	SignSnglPost	*Sign Single Post*
TR	SN	SignSnglPostNew	*Sign Single Post New*
SH	TI	SignSpacing25to40Note	*Sign Spacing 25 to 40 Note*
SH	TI	SignSpacing25to65Note	*Sign Spacing 25 to 65 Note*
SH	TI	SignSpacing35to55Note	*Sign Spacing 35 to 55 Note*
SH	TI	SignSpacing35to70Note	*Sign Spacing 35 to 70 Note*
SH	TI	SignSpacing45to70Note	*Sign Spacing 45 to 70 Note*
SH	TI	SignSpacing55to70Note	*Sign Spacing 55 to 70 Note*
SH	TI	SignSpacing60to70Note	*Sign Spacing 60 to 70 Note*
SH	TI	SignSpacingNote	*Sign Spacing Note*
TR	SN	SignTriplePost	*Sign Triple Post*
TR	SN	SignTriplePostNew	*Sign Triple Post New*
SH	RS	SlopeArrowLeft	*Slope Arrow Left*
SH	RS	SlopeArrowRight	*Slope Arrow Right*
SH	DP	SlopeText	*Slope Text*
EV	LS	SoddingNew	*Sodding New*
EV	LS	SodLawn	*Sod Lawn*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	LS	SoilAmendment	*Soil Amendment*
EV	EC	SoilBinderTackingAgentNew	*Soil Binder Tacking Agent New*
EV	LS	SoilDecompationArea	*Soil Decompation Area*
UT	GU	Spanwire	*Span Wire*
UT	GU	SpanwireNew	*Span Wire New*
TP	CN	SpotElevation	*Spot Elevation*
TP	CN	SpotElevationNew	*Spot Elevation New*
TP	CN	SpotElevationsText	*Spot Elevations Text*
TP	CN	SpotElevationTextNew	*Spot Elevation Text New*
TR	WZ	SpotterLocation	*Spotter Location*
EV	IR	SprinklerHead25	*Sprinkler Head 25*
EV	IR	SprinklerHead25New	*Sprinkler Head 25 New*
EV	IR	SprinklerHead75	*Sprinkler Head 75*
EV	IR	SprinklerHead75New	*Sprinkler Head 75 New*
EV	IR	SprinklerHeadFull	*Sprinkler Head Full*
EV	IR	SprinklerHeadFullNew	*Sprinkler Head Full New*
EV	IR	SprinklerHeadHalf	*Sprinkler Head Half*
EV	IR	SprinklerHeadHalfNew	*Sprinkler Head Half New*
EV	IR	SprinklerHeadStripCenter	*Sprinkler Head Strip Center*
EV	IR	SprinklerHeadStripCentNew	*Sprinkler Head Strip Center New*
EV	IR	SprinklerHeadStripEnd	*Sprinkler Head Strip End*
EV	IR	SprinklerHeadStripEndNew	*Sprinkler Head Strip End New*
EV	IR	SprinklerHeadStripSide	*Sprinkler Head Strip Side*
EV	IR	SprinklerHeadStripSideNew	*Sprinkler Head Strip Side New*
TP	MM	Stair	*Stair*
RW	GB	StateBndry	*State Boundary*
TR	SN	StateRouteShield	*State Route Shield*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
SH	RP	StationLabelsText	*Station Labels Text*
SH	DP	StationOffsetText	*Station Offset Text*
UT	PW	SteamConduit	*Steam Conduit*
UT	CM	SteelTransmissionTower	*Steel Transmission Tower*
UT	PW	SteelTransmissionTower	*Steel Transmission Tower*
DR	ST	StormSewerCleanOut	*Storm Sewer Clean Out*
DR	PP	StormSewerLine	*Storm Sewer Line*
DR	PP	StormSewerLineNew	*Storm Sewer Line New*
EV	WL	StormWaterTrtmnt	*Storm Water Treattment*
EV	WL	StormWaterTrtmntNew	*Storm Water Treatment New*
EV	WL	StreamBuffer	*Stream Buffer*
EV	EP	StreamBufferImpactPerm	*Stream Buffer Impact Perm*
EV	EP	StreamBufferImpactTemp	*Stream Buffer Impact Temp*
EV	EP	StreamBufferRestoration	*Stream Buffer Restoration*
EV	WL	StreamEdgeNew	*Stream Edge New*
EV	EP	StreamImpactPerm	*Stream Impact Perm*
SH	PI	StreamImpactTable	*Stream Impact Table*
EV	EP	StreamImpactTemp	*Stream Impact Temp*
TP	NT	StreamNonScalable	*Stream Non Scalable*
EV	EP	StreamRestoration	*Stream Restoration*
TP	NT	StreamScaleableBottom	*Stream Scaleable Bottom*
TP	NT	StreamScaleableEdge	*Stream Scaleable Edge*
EV	RH	StreamSlopeBreak	*Stream Slope Break*
TR	SG	StrnPoleAnchor	*Strn Pole Anchor*
TR	IL	StrnPoleAnchor	*Strn Pole Anchor*
TR	SG	StrnPoleAnchorNew	*Strn Pole Anchor New*
TR	IL	StrnPoleAnchorNew	*Strn Pole Anchor New*

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Catagory	Sub-Cat.	Element Name	*Description*
ST	BG	Structure	*Structure*
TP	MM	Structure	*Structure*
SH	DP	Structure	*Structure*
ST	BG	StructureNew	*Structure New*
SH	DP	StructureNew	*Structure New*
DR	ST	StructureNoteFlag	*Structure Note Flag*
SH	DP	StructureNoteFlag	*Structure Note Flag*
SH	DP	StructureNoteFlagContinue	*Structure Note Flag Continue*
DR	ST	StructureNoteFlagContinue	*Structure Note Flag Continue*
SH	DP	StructureNoteFlagContinueLg	*Structure Note Flag Continue Large*
DR	ST	StructureNoteFlagContinueLg	*Structure Note Flag Continue Large*
SH	DP	StructureText	*Structure Text*
TP	NT	Stump	*Stump*
EV	LS	Stump	*Stump*
RW	PA	SubdivisionsNamesText	*Subdivisions Names Text*
RW	ES	SubterraneanEsmntLineNew	*Subterranean Easement Line New*
SH	RP	SuperelevationCline	*Superelevation Cline*
SH	RP	SuperelevationExLines	*Superelevation Ex Lines*
SH	RP	SuperelevationLines	*Superelevation Lines*
SH	RP	SuperelevationText	*Superelevation Text*
UT	PW	SwitchGear	*Switch Gear*
UT	PW	SwitchGearNew	*Switch Gear New*
RW	PA	SWRParcelNumber	*SWR Parcel Number*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	RS	TableGridLines	*Table Grid Lines*
TR	WZ	TallChanDeviceElev	*Tall Channelizing Device Elev*
TR	WZ	TallChannelizingDevice	*Tall Channelizing Device*
TP	MM	Tank	*Tank*
TP	MM	TankLine	*Tank Line*
UT	CM	TelephoneBooth	*Telephone Booth*
UT	CM	TelephoneBoothNew	*Telephone Booth New*
UT	CM	TelephoneBox	*Telephone Box*
UT	CM	TelephoneBoxNew	*Telephone Box New*
UT	CM	TelephoneManhole	*Telephone Manhole*
UT	CM	TelephoneManholeNew	*Telephone Manhole New*
UT	CM	TelephonePedestal	*Telephone Pedestal*
UT	CM	TelephonePedestalNew	*Telephone Pedestal New*
UT	CM	TelephonePole	*Telephone Pole*
UT	CM	TelephonePoleNew	*Telephone Pole New*
RW	ES	TempConstrEsmntLineNew	*Temp Construction Easement Line New*
PM	MN	TempControlPoint	*Temp Control Point*
TR	TS	TerminalCabinet	*Terminal Cabinet*
TR	TS	TerminalCabinetNew	*Terminal Cabinet New*
TP	NT	Thalweg	*Thalweg*
SH	TI	TIAApprovedList40MPHNote	*TIA Approved List 40 MPH Note*
SH	TI	TIAApprovedList50MPHNote	*TIA Approved List 50 MPH Note*
SH	TI	TIAApprovedList60MPHNote	*TIA Approved List 60 MPH Note*
SH	TI	TIAApprovedList70MPHNote	*TIA Approved List 70 MPH Note*
SH	TI	TIAApprovedListNote	*TIA Approved List Note*
TP	NT	TidalShoreline	*Tidal Shoreline*
TR	SG	TimberPole	*Timber Pole*

S5.04 Alphabetical Listing of Standard Symbols

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Catagory	Sub-Cat.	Element Name	*Description*
TR	IL	TimberPole	*Timber Pole*
TR	IL	TimberPoleNew	*Timber Pole New*
TR	SG	TimberPoleNew	*Timber Pole New*
SH	GI	TitleBlockNamesText	*Title Block Names Text*
SH	GI	TitleBlockProjectNameText	*Title Block Project Name Text*
SH	GI	TitleBlockProjectNumText	*Title Block Project Number Text*
SH	GI	TitleBlockRefNumText	*Title Block Ref Number Text*
SH	GI	TitleBlockSheetNumberText	*Title Block Sheet Number Text*
SH	GI	TitleBlockText	*Title Block Text*
SH	TI	TMARequiredNote	*TMA Required Note*
EV	LS	TopsoilNew	*Topsoil New*
RW	SC	TownshipLine	*Township Line*
RW	SC	TownshipRangeLineText	*Township Range Line Text*
SH	GI	TownshipRangeTopSheetText	*Township Range Top Sheet Text*
RD	MK	TrafficArrowRATypeLC	*Traffic Arrow RA Type LC*
RD	MK	TrafficArrowRATypeLCNew	*Traffic Arrow RA Type LC New*
RD	MK	TrafficArrowRATypeLR	*Traffic Arrow RA Type LR*
RD	MK	TrafficArrowRATypeLRC	*Traffic Arrow RA Type LRC*
RD	MK	TrafficArrowRATypeLRCNew	*Traffic Arrow RA Type LRC New*
RD	MK	TrafficArrowRATypeLRNew	*Traffic Arrow RA Type LR New*
RD	MK	TrafficArrowRATypeLT	*Traffic Arrow RA Type LT*
RD	MK	TrafficArrowRATypeLTC	*Traffic Arrow RA Type LTC*
RD	MK	TrafficArrowRATypeLTCNew	*Traffic Arrow RA Type LTC New*
RD	MK	TrafficArrowRATypeLTNew	*Traffic Arrow RA Type LT New*
RD	MK	TrafficArrowRATypeLTR	*Traffic Arrow RA Type LTR*
RD	MK	TrafficArrowRATypeLTRC	*Traffic Arrow RA Type LTRC*
RD	MK	TrafficArrowRATypeLTRCNew	*Traffic Arrow RA Type LTRC New*

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Catagory	Sub-Cat.	Element Name	*Description*
RD	MK	TrafficArrowRATypeLTRNew	*Traffic Arrow RA Type LTR New*
RD	MK	TrafficArrowRATypeT	*Traffic Arrow RA Type T*
RD	MK	TrafficArrowRATypeTC	*Traffic Arrow RA Type TC*
RD	MK	TrafficArrowRATypeTCNew	*Traffic Arrow RA Type TC New*
RD	MK	TrafficArrowRATypeTNew	*Traffic Arrow RA Type T New*
RD	MK	TrafficArrowRATypeTR	*Traffic Arrow RA Type TR*
RD	MK	TrafficArrowRATypeTRC	*Traffic Arrow RA Type TRC*
RD	MK	TrafficArrowRATypeTRCNew	*Traffic Arrow RA Type TRC New*
RD	MK	TrafficArrowRATypeTRNew	*Traffic Arrow RA Type TR New*
RD	MK	TrafficArrowType1S	*Traffic Arrow Type 1 S*
RD	MK	TrafficArrowType1SNew	*Traffic Arrow Type 1 S New*
RD	MK	TrafficArrowType2L	*Traffic Arrow Type 2 L*
RD	MK	TrafficArrowType2LNew	*Traffic Arrow Type 2 L New*
RD	MK	TrafficArrowType2R	*Traffic Arrow Type 2 R*
RD	MK	TrafficArrowType2RNew	*Traffic Arrow Type 2 R New*
RD	MK	TrafficArrowType3LS	*Traffic Arrow Type 3 LS*
RD	MK	TrafficArrowType3LSNew	*Traffic Arrow Type 3 LS New*
RD	MK	TrafficArrowType3RS	*Traffic Arrow Type 3 RS*
RD	MK	TrafficArrowType3RSNew	*Traffic Arrow Type 3 RS New*
RD	MK	TrafficArrowType4LR	*Traffic Arrow Type 4 LR*
RD	MK	TrafficArrowType4LRNew	*Traffic Arrow Type 4 LR New*
RD	MK	TrafficArrowType5BigS	*Traffic Arrow Type 5 Big S*
RD	MK	TrafficArrowType5BigSNew	*Traffic Arrow Type 5 Big S New*
RD	MK	TrafficArrowType6L	*Traffic Arrow Type 6 L*
RD	MK	TrafficArrowType6LNew	*Traffic Arrow Type 6 L New*
RD	MK	TrafficArrowType6R	*Traffic Arrow Type 6 R*
RD	MK	TrafficArrowType6RNew	*Traffic Arrow Type 6 R New*

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Catagory	Sub-Cat.	Element Name	*Description*
RD	MK	TrafficArrowType7LRS	*Traffic Arrow Type 7 LRS*
RD	MK	TrafficArrowType7LRSNew	*Traffic Arrow Type 7 LRS New*
RD	MK	TrafficButton	*Traffic Button*
SH	GI	TrafficMvmntArrowLt1Lane	*Traffic Movement Arrow Left 1 Lane*
SH	GI	TrafficMvmntArrowLt2Lane	*Traffic Movement Arrow Left 2 Lane*
SH	GI	TrafficMvmntArrowLt3Lane	*Traffic Movement Arrow left 3 Lane*
SH	GI	TrafficMvmntArrowOpposing	*Traffic Movement Arrow Opposing*
SH	GI	TrafficMvmntArrowRt1Lane	*Traffic Movement Arrow Right 1 Lane*
SH	GI	TrafficMvmntArrowRt2Lane	*Traffic Movement Arrow Right 2 Lane*
SH	GI	TrafficMvmntArrowRt3Lane	*Traffic Movement Arrow Right 3 Lane*
TR	WZ	TrafficSafetyCone	*Traffic Safety Cone*
TR	WZ	TrafficSafetyConeElev	*Traffic Safety Cone Elev*
TR	WZ	TrafficSafetyDrum	*Traffic Safety Drum*
TR	WZ	TrafficSafetyDrumElev	*Traffic Safety Drum Elev*
TR	WZ	TrafficSafetyDrumLtElev	*Traffic Safety Drum Lt Elev*
TR	TS	TrafficSystemsText	*Traffic Systems Text*
TR	TS	TrafficSystemsTextNew	*Traffic Systems Text New*
TP	MM	Trail	*Trail*
UT	PW	Transformer	*Transformer*
TR	SG	Transformer	*Transformer*
TR	TS	TransformerCabinet	*Transformer Cabinet*
TR	TS	TransformerCabinetNew	*Transformer Cabinet New*
UT	PW	TransformerNew	*Transformer New*
TR	SG	TransformerNew	*Transformer New*
TR	WZ	TransportableAttenuator	*Transportable Attenuator*
EV	LS	Tree	*Tree 1*
EV	LS	Tree	*Tree 10*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	LS	Tree	*Tree 11*
EV	LS	Tree	*Tree 12*
EV	LS	Tree	*Tree 13*
EV	LS	Tree	*Tree 14*
EV	LS	Tree	*Tree 15*
EV	LS	Tree	*Tree 16*
EV	LS	Tree	*Tree 17*
EV	LS	Tree	*Tree 18*
EV	LS	Tree	*Tree 2*
EV	LS	Tree	*Tree 3*
EV	LS	Tree	*Tree 4*
EV	LS	Tree	*Tree 5*
EV	LS	Tree	*Tree 6*
EV	LS	Tree	*Tree 7*
EV	LS	Tree	*Tree 8*
EV	LS	Tree	*Tree 9*
TP	NT	TreeByCenter	*Tree By Center*
EV	LS	TreeElev	*Tree Elev 1*
EV	LS	TreeElev	*Tree Elev 10*
EV	LS	TreeElev	*Tree Elev 11*
EV	LS	TreeElev	*Tree Elev 12*
EV	LS	TreeElev	*Tree Elev 13*
EV	LS	TreeElev	*Tree Elev 14*
EV	LS	TreeElev	*Tree Elev 15*
EV	LS	TreeElev	*Tree Elev 2*
EV	LS	TreeElev	*Tree Elev 3*
EV	LS	TreeElev	*Tree Elev 4*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	LS	TreeElev	*Tree Elev 5*
EV	LS	TreeElev	*Tree Elev 6*
EV	LS	TreeElev	*Tree Elev 7*
EV	LS	TreeElev	*Tree Elev 8*
EV	LS	TreeElev	*Tree Elev 9*
TP	NT	TreeLine	*Tree Line*
EV	LS	TreeToBeRemoved	*Tree To Be Removed*
TR	WZ	TruckBuffer	*Truck Buffer*
TR	SN	TrussCantilever	*Truss Cantilever*
TR	SN	TrussCantileverNew	*Truss Cantilever New*
TR	SN	TrussSignBridge	*Truss Sign Bridge*
TR	SN	TrussSignBridgeNew	*Truss Sign Bridge New*
TR	WZ	TubularMarkerElev	*Tubular Marker Elev*
ST	BG	Tunnel	*Tunnel*
ST	BG	TunnelNew	*Tunnel New*
ST	BG	TunnelText	*Tunnel Text*
ST	BG	TunnelTextNew	*Tunnel Text New*

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Catagory	Sub-Cat.	Element Name	*Description*
DR	PP	UnderDrainLine	*Under Drain Line*
DR	PP	UnderDrainLineNew	*Under Drain Line New*
UT	GU	UnderGndUtilityLine	*Under Ground Utility Line*
UT	GU	UnderGndUtilityStructNew	*Under Ground Utility Structure New*
UT	GU	UnderGndUtilityStructure	*Under Ground Utility Structure*
UT	CM	UndGndCableBox	*Under Ground Cable Box*
UT	CM	UndGndCableBoxNew	*Under Ground Cable Box New*
UT	CM	UndGndCableTV	*Under Ground Cable TV*
UT	CM	UndGndCableTVNew	*Under Ground Cable TV New*
UT	CM	UndGndCommLine	*Under Ground Communication Line*
UT	CM	UndGndCommLineNew	*Under Ground Communication Line New*
UT	CM	UndGndCommunicationVault	*Under Ground Communication Vault New*
UT	CM	UndGndCommunicatVaultNew	*Under Ground Communication Vault*
UT	CM	UndGndFiberOptic	*Under Ground Fiber Optic*
UT	CM	UndGndFiberOpticNew	*Under Ground Fiber Optic New*
UT	PW	UndGndPowerLine	*Under Ground Power Line*
UT	PW	UndGndPowerLineNew	*Under Ground Power Line New*
UT	PW	UndGndPowerVault	*Under Ground Power Vault*
UT	PW	UndGndPowerVaultNew	*Under Ground Power Vault New*
UT	WT	UndGndTank	*Under Ground Tank*
UT	CM	UndGndTelephoneBox	*Under Ground Telephone Box*
UT	CM	UndGndTelephoneBoxNew	*Under Ground Telephone Box New*
UT	CM	UndGndTelephoneCable	*Under Ground Telephone Cable*
UT	CM	UndGndTelephoneCableNew	*Under Ground Telephone Cable New*
UT	MT	UndGndUtilitiesMultiNew	*Under Ground Utilities Multiple New*
UT	WT	UndGndWaterVault	*Under Ground Water Vault*

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Catagory	Sub-Cat.	Element Name	*Description*
UT	WT	UndGndWaterVaultNew	*Under Ground Water Vault New*
UT	CM	UnknownPedestal	*Unknown Pedestal*
TR	SN	USRouteShield	*US Route Shield*
UT	MT	UtilitiesMultiTypes1	*Utilities Multi Types 1*
UT	MT	UtilitiesMultiTypes2	*Utilities Multi Types 2*
UT	MT	UtilitiesMultiTypes3	*Utilities Multi Types 3*
UT	MT	UtilitiesMultiTypes4	*Utilities Multi Types 4*
UT	MT	UtilitiesMultiTypes5	*Utilities Multi Types 5*
UT	MT	UtilitiesMultiTypes6	*Utilities Multi Types 6*
UT	MT	UtilitiesMultiTypes7	*Utilities Multi Types 7*
UT	MT	UtilitiesMultiTypes8	*Utilities Multi Types 8*
UT	MT	UtilitiesMultiTypes9	*Utilities Multi Types 9*
UT	PW	UtilitiesText	*Utilities Text*
UT	PW	UtilitiesTextNew	*Utilities Text New*
UT	GU	UtilityBox	*Utility Box*
UT	GU	UtilityBoxNew	*Utility Box New*
TR	SG	UtilityCompanyPedestal	*Utility Company Pedestal*
TR	SG	UtilityCompanyPedestalNew	*Utility Company Pedestal New*
UT	GU	UtilityManhole	*Utility Manhole*
UT	GU	UtilityManholeNew	*Utility Manhole New*
UT	GU	UtilityMarkerPost	*Utility Marker Post*
UT	GU	UtilityMarkerPostNew	*Utility Marker Post New*
UT	GU	UtilityPole	*Utility Pole*
UT	GU	UtilityPoleNew	*Utility Pole New*
UT	GU	UtilityVault	*Utility Vault*
UT	GU	UtilityVaultNew	*Utility Vault New*

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Catagory	Sub-Cat.	Element Name	*Description*
EV	IR	Valve	*Valve*
EV	IR	ValveAutoControl	*Valve Auto Control*
EV	IR	ValveAutoControlNew	*Valve Auto Control New*
EV	IR	ValveBall	*Valve Ball*
EV	IR	ValveBallNew	*Valve Ball New*
UT	GU	Valvebox	*Valve Box*
UT	GS	ValveBoxGas	*Valve Box Gas*
UT	GS	ValveBoxGasNew	*Valve Box Gas New*
UT	GU	ValveboxNew	*Valve Box New*
UT	SS	ValveBoxSanSewer	*Valve Box San Sewer*
UT	SS	ValveBoxSanSewerNew	*Valve Box San Sewer New*
UT	WT	ValveBoxWater	*Valve Box Water*
UT	WT	ValveBoxWaterNew	*Valve Box Water New*
EV	IR	ValveDoubleCheck	*Valve Double Check*
EV	IR	ValveDoubleCheckNew	*Valve Double Check New*
EV	IR	ValveGate	*Valve Gate*
EV	IR	ValveGateNew	*Valve Gate New*
EV	IR	ValveNew	*Valve New*
UT	WT	ValveRelease	*Valve Release*
EV	EC	VegetativeFilterStripNew	*Vegetative Filter Strip New*
UT	GU	Vent	*Vent*
TP	MM	VentGrate	*Vent Grate*
TR	TS	VMSControlCabinet	*VMS Control Cabinet*
TR	TS	VMSControlCabinetNew	*VMS Control Cabinet New*
TR	TS	VMSOverhead	*VMS Overhead*
TR	TS	VMSOverheadNew	*VMS Overhead New*
TR	TS	VMSShoulder	*VMS Shoulder*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	TS	VMSShoulderNew	*VMS Shoulder New*
SH	RP	VPICircle	*VPI Circle*
SH	RP	VPICircleNew	*VPI Circle New*
SH	RP	VPILines	*VPI Lines*
SH	RP	VProfGradeText	*Vertical Profile Grade Text*
SH	RP	VProfLine	*Vertical Profile Line*
SH	RP	VProfStationEquation	*Vertical Profile Station Equation*
SH	RP	VProfStationEquationNew	*Vertical Profile Station Equation New*
SH	RP	VProfText	*Vertical Profile Text*

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Catagory	Sub-Cat.	Element Name	*Description*
TR	IL	WallpackLight	*Wallpack Light*
TR	IL	WallpackLightNew	*Wallpack Light New*
ST	WA	WallText	*Wall Text*
ST	WA	WallTextNew	*Wall Text New*
TR	WZ	WarningBeacon	*Warning Beacon*
TR	WZ	WarningFlag	*Warning Flag*
TR	WZ	WarningFlare	*Warning Flare*
TR	SN	WarningSigns	*Warning Signs*
TR	SN	WashingtonShield	*Washington Shield*
TP	NT	WaterBodyShading	*Water Body Shading*
UT	WT	WaterLine	*Water Line*
EV	WL	WaterLineMeanHigh	*Water Line Mean High*
EV	WL	WaterLineMeanHigherHigh	*Water Line Mean Higher High*
EV	WL	WaterLineMeanLow	*Water Line Mean Low*
EV	WL	WaterLineMeanLowerLow	*Water Line Mean Lower Low*
UT	WT	WaterLineNew	*Water Line New*
EV	WL	WaterLineNrmHighMaxLkLvl	*Water Line Normal High Maximum Lake Level*
EV	WL	WaterLineOrdinaryHigh	*Water Line Ordinary High*
EV	WL	WaterLineOrdinaryHighFlag	*Water Line Ordinary High Flag*
UT	WT	WaterManhole	*Water Manhole*
UT	WT	WaterManholeNew	*Water Manhole New*
UT	WT	WaterMeterBox	*Water Meter Box*
UT	WT	WaterMeterBoxNew	*Water Meter Box New*
TP	NT	WaterPondLakeResText	*Water Pond Lake Res Text*
SH	DP	WaterSurfaceElev	*Water Surface Elevation*
TP	MM	WaterTank	*Water Tank*
TP	NT	WaterTidalShoreLgBodyText	*Water Tidal Shore Large Body Text*

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Catagory	Sub-Cat.	Element Name	*Description*
UT	WT	WaterUtilitiesText	*Water Utilities Text*
UT	WT	WaterUtilitiesTextNew	*Water Utilities Text New*
TP	MM	WaterwayChannel	*Waterway Channel*
TP	MM	WaterwayChannelNew	*Waterway Channel New*
EV	EC	WattleNew	*Wattle New*
EV	LS	WeedControlArea	*Weed Control Area*
TP	MM	Well	*Well*
EV	EP	WetlandBufferImpactPerm	*Wetland Buffer Impact Perm*
EV	EP	WetlandBufferImpactTemp	*Wetland Buffer Impact Temp*
EV	EP	WetlandImpactLongTerm	*Wetland Impact Temporary Long Term*
EV	EP	WetlandImpactPerm	*Wetland Impact Perm*
EV	EP	WetlandImpactShortTerm	*Wetland Impact Temporary Short Term*
SH	PI	WetlandImpactTable	*Wetland Impact Table*
EV	EP	WetlandImpactTemp	*Wetland Impact Temp*
EV	WL	WetlandMitigationBuffer	*Wetland Mitigation Buffer*
EV	WL	WetlandMitigationBuffNew	*Wetland Mitigation Buffer New*
EV	EP	WetlandRestoration	*Wetland Restoration*
EV	WL	WetlandSampleFlag	*Wetland Sample Flag*
EV	WL	WetlandsText	*Wetlands Text*
EV	WL	WetlandsTextNew	*Wetlands Text New*
EV	WL	WetlandSymb	*Wetland Symbol*
DR	ST	WingWall	*Wing Wall*
DR	ST	WingWallNew	*Wing Wall New*
EV	IR	WireNoteFlag	*Wire Note Flag*
TR	SG	WireNoteFlag	*Wire Note Flag*
TR	IL	WireNoteFlag	*Wire Note Flag*
SH	TI	WireSchedule(NoPower)	*Wire Schedule (No Power)*

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Catagory	Sub-Cat.	Element Name	*Description*
SH	TI	WireSchedule(Power)	*Wire Schedule (Power)*
EV	IR	WiringandConduit	*Wiring and Conduit*
UT	CM	WoodenTransmissionTower	*Wooden Transmission Tower*
UT	PW	WoodenTransmissionTower	*Wooden Transmission Tower*
TR	WZ	WorkZoneDetails	*Work Zone Details*
TR	WZ	WorkZoneTextCurrent	*Work Zone Text Current*
TR	WZ	WorkZoneTextPrevious	*Work Zone Text Previous*
SH	GI	WSDOTAcronymLogo	*WSDOT Acronym Logo*
SH	GI	WSDOTLogo	*WSDOT Logo*
SH	GI	WSDOTSoundTransitLogo	*WSDOT Sound Transit Logo*
TR	WZ	WSP	*WSP*
TR	WZ	WSP2	*WSP2*

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Catagory	Sub-Cat.	Element Name	*Description*
TP	MM	YardLight	*Yard Light*
RD	MK	YieldAheadSymbType1	*Yield Ahead Symbol Type 1*
RD	MK	YieldAheadSymbType1New	*Yield Ahead Symbol Type 1 New*
RD	MK	YieldAheadSymbType2	*Yield Ahead Symbol Type 2*
RD	MK	YieldAheadSymbType2New	*Yield Ahead Symbol Type 2 New*
RD	MK	YieldSymbType1	*Yield Symbol Type 1*
RD	MK	YieldSymbType1New	*Yield Symbol Type 1 New*
RD	MK	YieldSymbType2	*Yield Symbol Type 2*
RD	MK	YieldSymbType2New	*Yield Symbol Type 2 New*

S5.05 Standard Symbols

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

AL HW Alignment - Highway

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Center Line PSE (AL_HW_CLinePSE)	1	Custom	
	18	Line	
Center Line PSE Bearings Text (AL_HW_CLinePSEBearingsText)	0	0	*S 88°55'25" W*
Text Size = 0.07 Font = ariali / 164	18	Text	
Center Line PSE Curve Data Text (AL_HW_CLinePSECrvDataText)	0	0	*S 88°55'25" W*
Text SIze = 0.07 Font = ariali / 164	18	Text	
Center Line PSE Curve Point Circle (AL_HW_CLinePSECurvePtCircle)	0	0	R 0.025"
	18	Cell	
Center Line PSE Line Designation Text (AL_HW_CLinePSELineDesText)	0	0	*L LINE*
Text Size = 0.07 Font = ariali / 164	18	Text	
Center Line PSE Major Station Text (AL_HW_CLinePSEMajorStaText)	0	0	*10*
Text SIze = 0.09 Font = ariali / 164	18	Text	
Center Line PSE New (AL_HW_CLinePSENew)	5	0	
	2	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

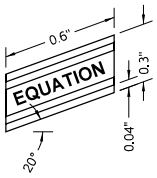
AL HW Alignment - Highway

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Center Line PSE New Bearings Text (AL_HW_CLinePSENewBearingsText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	S 88°55'25" W
Center Line PSE New Curve Data Text (AL_HW_CLinePSENewCrvDataText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	S 88°55'25" W
Center Line PSE New Curve Point Circle (AL_HW_CLinePSENewCurvePtCircle)	1 / 0 2 / Cell	R 0.025"
Center Line PSE New Line Designation Text (AL_HW_CLinePSENewLineDesText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	L LINE
Center Line PSE New Major Station Text (AL_HW_CLinePSENewMajorStaText) Text Size = 0.09 Font = arialbd / 217	0 / 0 2 / Text	10
Center Line PSE New PC PI PT Text (AL_HW_CLinePSENewPCPIPTText) Text SIze = 0.07 Font = arialbd / 217	0 / 0 2 / Text	B 10+68.42 P.C.
Center Line PSE New PI to PI Line (AL_HW_CLinePSENewPItoPILine)	1 / 3 2 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

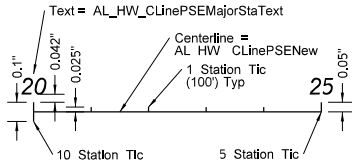
AL HW Alignment - Highway

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Center Line PSE New SR Number Text (AL_HW_CLinePSENewSRNoText) Text Size = 0.09 Font = arialbd / 217	0 / 0 2 / Text	**SR 104**
Center Line PSE New Station Equation (AL_HW_CLinePSENewStaEquation) Text Size = 0.07 Font = arialbd / 217	1 / 0 2 / Cell	
Center Line PSE New Station Equation Text (AL_HW_CLinePSENewStaEquaText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	**B 10+68.42 P.O.T. BK.=**
Center Line PSE New Station Text (AL_HW_CLinePSENewStationText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	**B 10+68.42 P.C.**
Center Line PSE New Tics (AL_HW_CLinePSENewTics)	2 / 0 2 / Line	
Center Line PSE PC PI PT Text (AL_HW_CLinePSEPCPIPTText) Text Size = 0.07 Font = ariali / 164	0 / 0 18 / Text	*B 10+68.42 P.C.*
Center Line PSE PI to PI Line (AL_HW_CLinePSEPItoPILine)	0 / 3 18 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

AL HW Alignment - Highway

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Center Line PSE SR Number Text (AL_HW_CLinePSESRNoText) Text Size = 0.09 Font = ariali / 164	0 / 0 18 / Text	*SR 104*
Center Line PSE Station Equation (AL_HW_CLinePSEStaEquation) Text Size = 0.07 Font = ariali / 164	1 / 3 18 / Cell	EQUATION
Center Line PSE Station Equation Text (AL_HW_CLinePSEStaEquaText) Text Size = 0.07 Font = ariali / 164	0 / 0 18 / Text	*B 10+68.42 P.O.T. BK.=*
Center Line PSE Station Text (AL_HW_CLinePSEStationText) Text Size = 0.07 Font = ariali / 164	0 / 0 18 / Text	*B 10+68.42 P.C.*
Center Line PSE Tics (AL_HW_CLinePSETics)	1 / 0 18 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

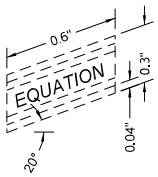
AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Center Line RW Controlling Curve Data Text (AL_RW_CLineRWCntrlCrvDataText) Text Size = 0.07 Font = arialbd / 217	0	0 2 Text	**S 88°55'25" W**
Center Line RW for PSE (AL_RW_CLineRWforPSE)	1	Custom 50 Line	
Center Line RW for PSE Bearings Text (AL_RW_CLineRWforPSEBearingsText) Text Size = 0.07 Font = ariali / 164	0	0 50 Text	*S 88°55'25" W*
Center Line RW for PSE Curve Point Circle (AL_RW_CLineRWforPSECrvePtCircle)	0	0 50 Cell	R 0.025"
Center Line RW for PSE Curve Data Text (AL_RW_CLineRWforPSECrvDataText) Text Size = 0.07 Font = ariali / 164	0	0 50 Text	*S 88°55'25" W*
Center Line RW for PSE Line Designation Text (AL_RW_CLineRWforPSELineDesText) Text Size = 0.07 Font = ariali / 164	0	0 50 Text	*L LINE*
Center Line RW for PSE Major Station Text (AL_RW_CLineRWforPSEMajorStaText) Text Size = 0.09 Font = ariali / 164	0	0 50 Text	*10*

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

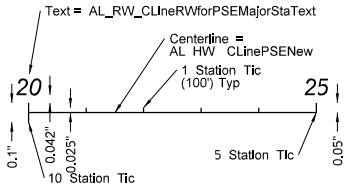
AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Center Line RW for PSE PC PI PT Text (AL_RW_CLineRWforPSEPCPIPTText) Text Size = 0.07 Font = ariali / 164	0 / 0 50 / Text	*RW 10+68.42 P.C.*
Center Line RW for PSE PI to PI Line (AL_RW_CLineRWforPSEPItoPILine)	0 / 3 50 / Line	
Center Line RW for PSE SR Number Text (AL_RW_CLineRWforPSESRNoText) Text SIze = 0.07 Font = ariali / 164	0 / 0 50 / Text	*SR 104*
Center Line RW for PSE Station Equation (AL_RW_CLineRWforPSEStaEquation) Text Size = 0.07 Font = ariali / 164	0 / 3 50 / Cell	
Center Line RW for PSE Station Equation Text (AL_RW_CLineRWforPSEStaEquaText) Text Size = 0.07 Font = ariali / 164	0 / 0 50 / Text	*RW 10+68.42 P.O.T. BK.=*
Center Line RW for PSE Station Text (AL_RW_CLineRWforPSEStationText) Text SIze = 0.07 Font = ariali / 164	0 / 0 50 / Text	*RW 10+68.42 P.C.*

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

AL RW Alignment - Right of Way

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Center Line RW for PSE Tics (AL_RW_CLineRWforPSETics)	1 / 0 / 50 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

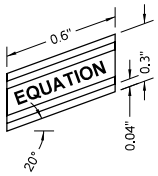
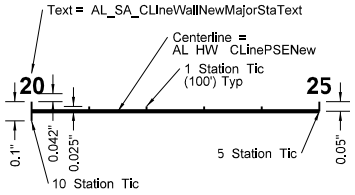
AL SA Alignment - Structure Alignments

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Center Line Wall New (AL_SA_CLineWallNew)	5 / 0 2 / Line	
Center Line Wall New Bearings Text (AL_SA_CLineWallNewBearingsText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	S 88°55'25" W
Center Line Wall New Curve Data Text (AL_SA_CLineWallNewCrvDataText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	S 88°55'25" W
Center Line Wall New Curve Point Circle (AL_SA_CLineWallNewCurvePtCircle)	1 / 0 2 / Cell	R 0.025"
Center Line Wall New Line Designation Text (AL_SA_CLineWallNewLineDesText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	L LINE
Center Line Wall New Major Station Text (AL_SA_CLineWallNewMajorStaText) Text Size = 0.09 Font = arialbd / 217	0 / 0 2 / Text	10
Center Line Wall New PC PI PT Text (AL_SA_CLineWallNewPCPIPTText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	B 10+68.42 P.C.

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

AL SA Alignment - Structure Alignments

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Center Line Wall New PI to PI Line (AL_SA_CLineWallNewPItoPILine)	1 / 3 2 / Line	
Center Line Wall New SR Number Text (AL_SA_CLineWallNewSRNoText) Text Size = 0.09 Font = arialbd / 217	0 / 0 2 / Text	**SR 104**
Center Line Wall New Station Equation (AL_SA_CLineWallNewStaEquation) Text SIze = 0.07 Font = arialbd / 217	1 / 0 2 / Cell	
Center Line Wall New Station Equation Text (AL_SA_CLineWallNewStaEquaText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	**B 10+68.42 P.O.T. BK.=**
Center Line Wall New Station Text (AL_SA_CLineWallNewStationText) Text Size = 0.07 Font = arialbd / 217	0 / 0 2 / Text	**B 10+68.42 P.C.**
Center Line Wall New Tics (AL_SA_CLineWallNewTics)	2 / 0 2 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

DR PP Drainage - Pipes And Ditches

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Detention Pond (DR_PP_DetentionPond)	3	3 / 81 Line	
Detention Pond Bottom (DR_PP_DetentionPondBottom)	3	3 / 81 Line	
Detention Pond Bottom New (DR_PP_DetentionPondBottomNew)	3	0 / 65 Line	
Detention Pond New (DR_PP_DetentionPondNew)	3	0 / 65 Line	
Ditch Bottom (DR_PP_DitchBottom)	1	Custom / 17 Line	
Ditch Bottom New (DR_PP_DitchBottomNew)	1	Custom / 1 Line	
Drain Line (DR_PP_DrainLine)	0	Custom / 145 Line	- D — — D — — D — — D — — D — —

Text Size = 0.06
Font = ariali / 164

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

DR PP Drainage - Pipes And Ditches

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Drain Line New (DR_PP_DrainLineNew) Text Size = 0.06 Font = arialbd / 217	0	Custom Line 129	- D —— D —— D —— D —— D ——
Drain Pipe (DR_PP_DrainPipe) Text Size = 0.06 Font = ariali / 164	0	Custom Line 81	- *DP* — — *DP* — — *DP* — — *DP* — — *DP* — —
Drain Pipe New (DR_PP_DrainPipeNew) Text SIze = 0.06 Font = arialbd / 217	2	Custom Line 65	- **DP** —— **DP** —— **DP** —— **DP** —— **DP** ——
Drainage Pipes Text (DR_PP_DrainagePipesText) Text Size = 0.07 Font = ariali / 164	0	0 Text 17	*CULVERT*
Drainage Pipes Text New (DR_PP_DrainagePipesTextNew) Text Size = 0.07 Font = arialbd / 217	0	0 Text 1	**CULVERT**
Storm Sewer Line (DR_PP_StormSewerLine) Text SIze = 0.06 Font = ariali / 164	0	Custom Line 49	- *ST* — — *ST* — — *ST* — — *ST* — — *ST* — —
Storm Sewer Line New (DR_PP_StormSewerLineNew) Text Size = 0.06 Font = arialbd / 217	0	Custom Line 33	- **ST** —— **ST** —— **ST** —— **ST** —— **ST** ——

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

DR PP Drainage - Pipes And Ditches

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Under Drain Line (DR_PP_UnderDrainLine) Text Size = 0.06 Font = ariali / 164	0 / Custom 113 / Line	- UD — — UD — — UD — — UD — — UD — —
Under Drain Line New (DR_PP_UnderDrainLineNew) Text Size = 0.06 Font = arialbd / 217	0 / Custom 97 / Line	- UD —— UD —— UD —— UD —— UD ——

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

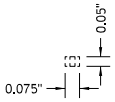
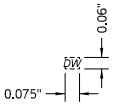
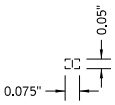
DR ST Drainage - Structures

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Box Culvert (DR_ST_BoxCulvert)	0	2 / 81 Line	
Box Culvert New (DR_ST_BoxCulvertNew)	2	0 / 65 Line	
Catch Basin (DR_ST_CatchBasin)	0	0 / 49 Cell	0.07"
Catch Basin New (DR_ST_CatchBasinNew)	0	0 / 33 Cell	
Concrete Inlet New (DR_ST_ConcreteInletNew)	0	0 / 33 Cell	
Culvert (DR_ST_Culvert)	0	2 / 81 Line	
Culvert New (DR_ST_CulvertNew)	1	0 / 65 Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

DR ST Drainage - Structures

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Drainage Structures Text (DR_ST_DrainageStructuresText) Text Size = 0.07 Font = ariali / 164	0	0 Text	*CULVERT*
Drainage Structures Text New (DR_ST_DrainageStructuresTextNew) Text Size = 0.07 Font = arialbd / 217	0 1	0 Text	**CULVERT**
Drop Inlet (DR_ST_DropInlet)	0 49	0 Cell	
Drop Inlet New (DR_ST_DropInletNew)	0 33	0 Cell	
Dry Well (DR_ST_DryWell) Text Size = 0.04 Font = ariali / 164	0 145	0 Cell	
Dry Well New (DR_ST_DryWellNew) Text Size = 0.04 Font = arialbd / 200	0 129	0 Cell	
Grate Inlet (DR_ST_GrateInlet)	0 49	0 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

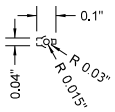
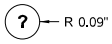
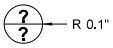
DR ST Drainage - Structures

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Grate Inlet New (DR_ST_GrateInletNew)	0	0	
	33	Cell	
Head Wall (DR_ST_HeadWall)	0	Custom	
	81	Line	
Head Wall New (DR_ST_HeadWallNew)	0	Custom	
	65	Line	
Inlet Slotted (DR_ST_InletSlotted)	0	Custom	
	81	Line	
Inlet Slotted New (DR_ST_InletSlottedNew)	2	Custom	
	65	Line	
Manhole (DR_ST_Manhole)	0	0	R 0.05"
	49	Cell	
Manhole New (DR_ST_ManholeNew)	0	0	
	33	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

DR ST Drainage - Structures

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Open Flow Restrictor (DR_ST_OpenFlowRestrictor)	0 / 0 / 49 / Cell	
Open Flow Restrictor New (DR_ST_OpenFlowRestrictorNew)	0 / 0 / 33 / Cell	
Storm Sewer Clean Out (DR_ST_StormSewerCleanOut) Text Size = 0.02 Font = ariali / 164	0 / 0 / 145 / Cell	
Structure Note Flag (DR_ST_StructureNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 / 1 / Cell	
Structure Note Flag Continue (DR_ST_StructureNoteFlagContinue) Text Size = 0.07 Font = arialbd / 217	0 / 0 / 1 / Cell	
Structure Note Flag Continue Large (DR_ST_StructureNoteFlagContinueLg) Text Size = 0.07 Font = arialbd / 217	0 / 0 / 1 / Cell	
Wing Wall (DR_ST_WingWall)	0 / Custom / 81 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

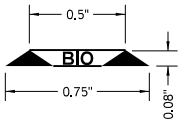
DR ST Drainage - Structures

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Wing Wall New (DR_ST_WingWallNew)	0 / Custom / 65 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EC Environmental - Erosion Control

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Barrier Brush New (EV_EC_BarrierBrushNew)	2	Custom	
	9	Line	
Berm Compost New (EV_EC_BermCompostNew)	2	Custom	
	9	Line	
Berm Gravel Filter New (EV_EC_BermGravelFilterNew) Text Size = 0.06 Font = arialbd / 217	2	Custom	
	9	Line	
Bio Retention (EV_EC_BioRetention)	2	Custom	
	9	Line	
Check Dam Biodegradable New (EV_EC_CheckDamBioNew) Text Size = 0.07 Font = arialbd / 217	2	0	
	9	Cell	
Check Dam Non Biodegradable New (EV_EC_CheckDamNonBioNew) Text Size = 0.07 Font = arialbd / 217	2	0	
	9	Cell	
Compost Filter Sock New (EV_EC_CompostFilterSockNew)	2	Custom	
	9	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EC Environmental - Erosion Control

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Construction Entrance New (EV_EC_ConstrEntranceNew)	0	0	
	9	Cell	
Construction Entrance Tire Wash New (EV_EC_ConstrEntranceTireWashNew)	0	0	
	9	Cell	
Contractor Sensitive Area (EV_EC_ContractorSensitiveArea)	2	Custom	CSA
	9	Line	
Dewatering Area New (EV_EC_DewateringAreaNew)	0	0	
	9	Cell	
Ecology Ditch New (EV_EC_EcologyDitchNew)	2	Custom	ED ED ED ED
Text Size = 0.06, Font = arialbd / 217	9	Line	
Erosion Control Text (EV_EC_ErosionControlText)	0	0	*EROSION*
Text Size = 0.07, Font = ariali / 164	23	Text	
Erosion Control Text New (EV_EC_ErosionControlTextNew)	0	0	**EROSION**
Text Size = 0.07, Font = arialbd / 217	9	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

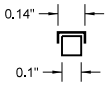
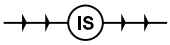
EV EC Environmental - Erosion Control

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Fence High Vis Const New (EV_EC_FenceHighVisConstNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	- HVF — HVF — HVF — HVF — HVF —
Fence High Vis Silt New (EV_EC_FenceHighVisSiltNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	- HVS — HVS — HVS — HVS — HVS —
Fence Silt New (EV_EC_FenceSiltNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	- SF — SF — SF — SF — SF —
Fence Turbidity Curtain New (EV_EC_FenceTurbidityCurtainNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	- TC — TC — TC — TC — TC —
Fish Block Net (EV_EC_FishBlockNet)	0	0 9 Cell	
Infiltration Trench New (EV_EC_InfiltrationTrenchNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	IT IT IT IT
Inlet Cover (EV_EC_InletCover)	1	0 23 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

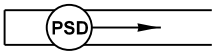
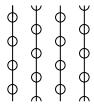
EV EC Environmental - Erosion Control

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Inlet Cover New (EV_EC_InletCoverNew)	2 / 0 / 9 / Cell	
Inlet Filter (EV_EC_InletFilter)	1 / 0 / 23 / Cell	
Inlet Filter New (EV_EC_InletFilterNew)	2 / 0 / 9 / Cell	
Inlet Insert (EV_EC_InletInsert)	1 / 0 / 23 / Cell	
Inlet Insert New (EV_EC_InletInsertNew)	2 / 0 / 9 / Cell	
Interceptor Dike New (EV_EC_InterceptorDikeNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 / 9 / Cell	
Interceptor Swale New (EV_EC_InterceptorSwaleNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 / 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EC Environmental - Erosion Control

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Level Spreader New (EV_EC_LevelSpreaderNew)	2 / 0 / 9 / Cell	
Mulching and Matting New (EV_EC_MulchingandMattingNew)	0 / 0 / 9 / Cell	
Pipe Slope Drain New (EV_EC_PipeSlopeDrainNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 / 9 / Cell	
Plastic Covering New (EV_EC_PlasticCoveringNew)	0 / 0 / 9 / Cell	
Sand Bag or Sack New (EV_EC_SandBagorSackNew)	2 / Custom / 9 / Line	
Sediment Pond Temp (EV_EC_SedimentPondTemp)	0 / 0 / 9 / Cell	
Sediment Trap New (EV_EC_SedimentTrapNew)	2 / 0 / 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EC Environmental - Erosion Control

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Seeding Erosion Control (EV_EC_SeedingErosionControl)	0	0	
	9	Cell	
Seeding Temp (EV_EC_SeedingTemp)	2	0	
	9	Cell	
Soil Binder Tacking Agent New (EV_EC_SoilBinderTackingAgentNew)	0	0	
	9	Cell	
Vegetative Filter Strip New (EV_EC_VegetativeFilterStripNew)	2	Custom	
	9	Line	
Wattle New (EV_EC_WattleNew)	2	Custom	
	9	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EP Environmental - Environmental Permits

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Buffer Enhancement (EV_EP_BufferEnhancement)	1 / 0 91 / Line	
Buffer Preservation (EV_EP_BufferPreservation)	1 / 0 90 / Line	
Buffer Restoration (EV_EP_BufferRestoration)	1 / 0 94 / Cell	
Conversion Buffer To Stream (EV_EP_ConvBufferToStream)	0 / 0 12 / Cell	
Conversion Stream To Jurisdictional Ditch (EV_EP_ConvStreamToJurisDitch)	0 / 0 14 / Cell	
Conversion Stream To Stream Buffer (EV_EP_ConvStreamToBuffer)	1 / 0 17 / Cell	
Conversion Wetland To Stream (EV_EP_ConvWetlandToStream)	2 / 0 28 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EP Environmental - Environmental Permits

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Enviro Permit Text (EV_EP_EnviroPermitText) Text Size = 0.07 Font = ariali / 164	0 / 0 0 / Text	*ENVIRONMENTAL PERMIT*
Enviro Permit Text New (EV_EP_EnviroPermitTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Text	**ENVIRONMENTAL PERMIT**
Impervious Area (EV_EP_ImperviousArea)	2 / 0 3 / Line	
Jurisd Ditch Impact Perm (EV_EP_JurisdDitchImpactPerm)	2 / 0 12 / Cell	
Jurisd Ditch Impact Temp (EV_EP_JurisdDitchImpactTemp)	1 / 0 28 / Cell	
Jurisdictional Ditch Line (EV_EP_JurisdictionalDitchLine)	2 / Custom 0 / Line	
Mudflats Impact Permanent (EV_EP_MudflatsImpactPerm)	2 / 0 13 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EP Environmental - Environmental Permits

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Mudflats Impact Temporary (EV_EP_MudflatsImpactTemp)	1	0	
	14	Cell	
Pervious Area (EV_EP_PerviousArea)	2	0	
	2	Line	
Reestablish Wetland (EV_EP_ReestablishWetland)	1	0	
	85	Line	
Riffle Pool Complex Impact Permanent (EV_EP_RifflePoolImpactPerm)	2	0	
	5	Cell	
Riffle Pool Complex Impact Temporary (EV_EP_RifflePoolImpactTemp)	0	0	
	8	Cell	
Roadway Reclamation (EV_EP_RoadwayReclamation)	1	4	
	93	Line	
Rock Class B For Erosion Scour (EV_EP_RockClassB)	1	0	
	1	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV EP Environmental - Environmental Permits

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Rock Quarry Spalls (EV_EP_RockQuarrySpalls)	0	0	
	6	Cell	
Stream Buffer Impact Perm (EV_EP_StreamBufferImpactPerm)	2	0	
	6	Cell	
Stream Buffer Impact Temp (EV_EP_StreamBufferImpactTemp)	1	0	
	45	Cell	
Stream Buffer Restoration (EV_EP_StreamBufferRestoration)	1	0	
	94	Line	
Stream Impact Perm (EV_EP_StreamImpactPerm)	2	0	
	1	Cell	
Stream Impact Temp (EV_EP_StreamImpactTemp)	1	0	
	17	Cell	
Stream Restoration (EV_EP_StreamRestoration)	1	0	
	92	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

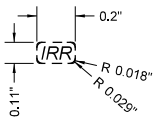
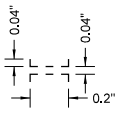
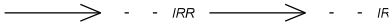
EV EP Environmental - Environmental Permits

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Wetland Buffer Impact Perm (EV_EP_WetlandBufferImpactPerm)	2 / 0 / 2 / Cell	
Wetland Buffer Impact Temp (EV_EP_WetlandBufferImpactTemp)	1 / 0 / 18 / Cell	
Wetland Impact Perm (EV_EP_WetlandImpactPerm)	2 / 0 / 3 / Cell	
Wetland Impact Temp (EV_EP_WetlandImpactTemp)	1 / 0 / 19 / Cell	
Wetland Impact Temporary Long Term (EV_EP_WetlandImpactLongTerm)	2 / 0 / 3 / Cell	
Wetland Impact Temporary Short Term (EV_EP_WetlandImpactShortTerm)	1 / 0 / 19 / Cell	
Wetland Restoration (EV_EP_WetlandRestoration)	0 / 0 / 25 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Box (EV_IR_Box) Text Size = 0.07 Font = ariali / 164	1 / 0 23 / Cell	
Box New (EV_IR_BoxNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 9 / Cell	
Casing (EV_IR_Casing)	1 / 0 23 / Cell	
Casing New (EV_IR_CasingNew)	2 / 0 9 / Cell	
Controller (EV_IR_Controller) Text Size = 0.03 Font = ariali / 164	1 / 0 23 / Cell	
Controller New (EV_IR_ControllerNew) Text SIze = 0.03 Font = arialbd / 217	2 / 0 9 / Cell	
Ditch (EV_IR_Ditch) Text Size = 0.06 Font = ariali / 164	1 / Custom 23 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Ditch New (EV_IR_DitchNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	IRR IR
Flag (EV_IR_Flag) Text Size = 0.07 Font = arialbd / 217	0	0 9 Cell	?
Irrigation Text (EV_IR_IrrigText) Text Size = 0.07 Font = ariali / 164	0	0 23 Text	*SPRINKLER*
Irrigation Text New (EV_IR_IrrigTextNew) Text Size = 0.07 Font = arialbd / 217	0	0 9 Text	**SPRINKLER**
Line Drip (EV_IR_LineDrip) Text Size = 0.06 Font = ariali / 164	1	Custom 23 Line	*- DL — — DL — — DL — — DL — — DL — –*
Line Drip New (EV_IR_LineDripNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	**- DL —— DL —— DL —— DL —— DL ——**
Line Lateral (EV_IR_LineLateral) Text Size = 0.06 Font = ariali / 164	1	Custom 23 Line	*- LL — — LL — — LL — — LL — — LL — –*

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

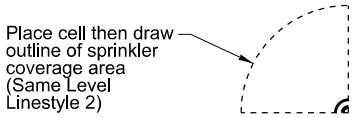
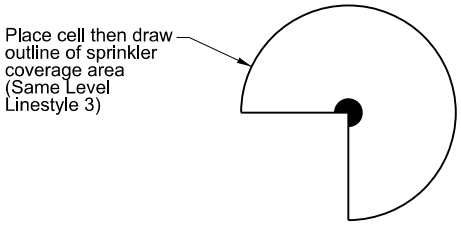
EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Line Lateral New (EV_IR_LineLateralNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	- LL —— LL —— LL —— LL —— LL ——
Line Main (EV_IR_LineMain) Text Size = 0.06 Font = ariali / 164	1	Custom 23 Line	- ML — — ML — — ML — — ML — — ML — —
Line Main New (EV_IR_LineMainNew) Text Size = 0.06 Font = arialbd / 217	2	Custom 9 Line	- ML —— ML —— ML —— ML —— ML ——
Line Size Text (EV_IR_LineSizeText) Text Size = 0.07 Font = arialbd / 217	0	0 9 Text	1 INCH
Line Unknown (EV_IR_LineUnknown)	1	Custom 23 Line	- IRR – – IRR – – IRR – – IRR – – IRR – -
Meter (EV_IR_Meter) Text Size = 0.07 Font = ariali / 164	1	0 23 Cell	0.105" M
Meter New (EV_IR_MeterNew) Text Size = 0.07 Font = arialbd / 217	2	0 9 Cell	M

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Sprinkler Head 25 (EV_IR_SprinklerHead25)	1 / 2 / 23 / Cell	
Sprinkler Head 25 New (EV_IR_SprinklerHead25New)	2 / 3 / 9 / Cell	
Sprinkler Head 75 (EV_IR_SprinklerHead75)	1 / 0 / 23 / Cell	
Sprinkler Head 75 New (EV_IR_SprinklerHead75New)	2 / 0 / 9 / Cell	
Sprinkler Head Full (EV_IR_SprinklerHeadFull)	1 / 0 / 23 / Cell	
Sprinkler Head Full New (EV_IR_SprinklerHeadFullNew)	2 / 0 / 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

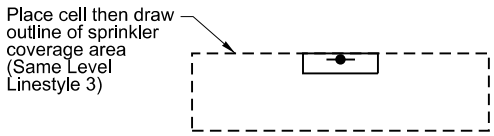
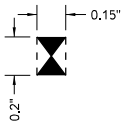
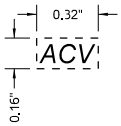
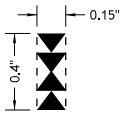
EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Sprinkler Head Half (EV_IR_SprinklerHeadHalf)	1 / 0 / 23 / Cell	
Sprinkler Head Half New (EV_IR_SprinklerHeadHalfNew)	2 / 0 / 9 / Cell	
Sprinkler Head Strip Center (EV_IR_SprinklerHeadStripCenter)	1 / 2 / 23 / Cell	
Sprinkler Head Strip Center New (EV_IR_SprinklerHeadStripCentNew)	2 / 3 / 9 / Cell	Place cell then draw outline of sprinkler coverage area (Same Level Linestyle 3)
Sprinkler Head Strip End (EV_IR_SprinklerHeadStripEnd)	1 / 2 / 23 / Cell	
Sprinkler Head Strip End New (EV_IR_SprinklerHeadStripEndNew)	2 / 3 / 9 / Cell	Place cell then draw outline of sprinkler coverage area (Same Level Linestyle 3)
Sprinkler Head Strip Side (EV_IR_SprinklerHeadStripSide)	1 / 2 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

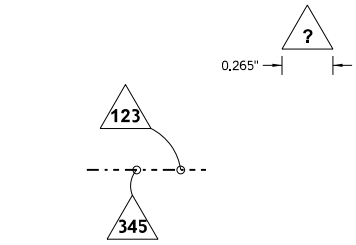
EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Sprinkler Head Strip Side New (EV_IR_SprinklerHeadStripSideNew)	2 / 3 9 / Cell	
Valve (EV_IR_Valve)	1 / 0 23 / Cell	
Valve Auto Control (EV_IR_ValveAutoControl) Text Size = 0.1 Font = ariali / 164	1 / 0 23 / Cell	
Valve Auto Control New (EV_IR_ValveAutoControlNew) Text Size = 0.1 Font = arialbd / 217	2 / 0 9 / Cell	
Valve Ball (EV_IR_ValveBall)	1 / 0 23 / Cell	
Valve Ball New (EV_IR_ValveBallNew)	2 / 0 9 / Cell	
Valve Double Check (EV_IR_ValveDoubleCheck)	1 / 0 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Valve Double Check New (EV_IR_ValveDoubleCheckNew)	2 / 0 9 / Cell	
Valve Gate (EV_IR_ValveGate)	1 / 0 23 / Cell	
Valve Gate New (EV_IR_ValveGateNew)	2 / 0 9 / Cell	
Valve New (EV_IR_ValveNew)	2 / 0 9 / Cell	
Wire Note Flag (EV_IR_WireNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 9 / Cell	

Acceptable Leader:
Level: TR_IL_IlluminationTextNew
Short, noticable arc
Terminates at element intersection
0.02 radius circle at intersection

Unacceptable Leader:
Long straight leader
Large sweep arc
Terminates at circle

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV IR Environmental - Irrigation

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Wiring and Conduit (EV_IR_WiringandConduit)	2 / 6 / 9 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

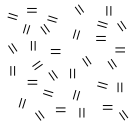
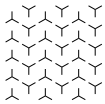
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Area Measurements (EV_LS_AreaMeasurements) Text Size = 0.07 Font = arialbd / 217	0 / 0 9 / Text	AREA MEASUREMENTS
Bat House (EV_LS_BatHouse)	0 / 0 9 / Cell	
Bio Engineering New (EV_LS_BioEngineeringNew)	0 / 0 9 / Line	
Boulder (EV_LS_Boulder)	1 / 0 9 / Line	
Clear Prune Grub Selective (EV_LS_ClearPruneGrubSelective) Text Size = 0.06 Font = arialbd / 217	4 / Custom 9 / Line	SCPG SCPG
Clear Prune Selective (EV_LS_ClearPruneSelective) Text SIze = 0.06 Font = arialbd / 217	4 / Custom 9 / Line	SCP SCP
Clear Selective (EV_LS_ClearSelective) Text Size = 0.06 Font = arialbd / 217	4 / Custom 9 / Line	SC SC

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Compost Amended Vegetated Filter Strip (EV_LS_CAVFS)	0	0 / Cell	
Compost Amended Vegetated Filter Strip Edge (EV_LS_CAVFSEdge) Text Size = 0.06 Font = arialbd / 217	2	Custom / Line	
Compost Coarse (EV_LS_CompostCoarse)	0	0 / Cell	
Compost Fine (EV_LS_CompostFine)	0	0 / Cell	
Compost Medium (EV_LS_CompostMedium)	0	0 / Cell	
Concrete Decorative (EV_LS_ConcreteDecorative)	2	0 / Line	
Fascine (EV_LS_Fascine)	5	3 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Feature Habitat (EV_LS_FeatureHabitat)	2	0	
	9	Line	
Feature Landscape (EV_LS_FeatureLandscape)	1	0	
	23	Line	
Feature Landscape New (EV_LS_FeatureLandscapeNew)	2	0	
	9	Line	
Fence Restricted Access (EV_LS_FenceRestrictedAccess)	2	Custom	
	9	Line	
Filter Strip Vegetative New (EV_LS_FilterStripVegetativeNew)	2	0	
	9	Line	
Furnishings (EV_LS_Furnishings)	1	0	
	23	Line	
Furnishings New (EV_LS_FurnishingsNew)	2	0	
	9	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

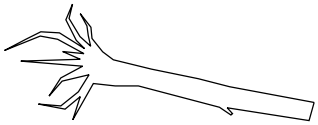
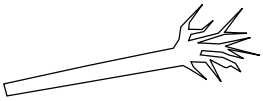
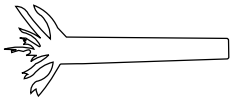
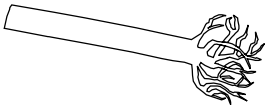
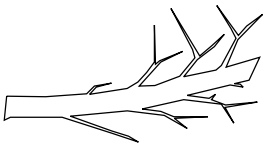
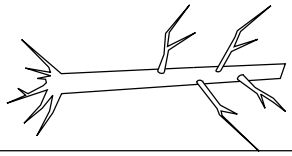
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Ground Water Contours (EV_LS_GroundWaterContours)	1 / 3 23 / Line	
Landscape Text (EV_LS_LandscapeText) Text Size = 0.07 Font = arial / 164	0 / 0 87 / Text	*Landscape*
Landscape Text New (EV_LS_LandscapeTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 73 / Text	**Landscape**
Large Woody Material (EV_LS_LargeWoodyMaterial)	1 / 0 9 / Line	
Live Pole Cutting (EV_LS_LivePoleCutting)	2 / 0 9 / Cell	
Live Stake Cutting (EV_LS_LiveStakeCutting)	2 / 0 9 / Cell	
Log 1 (EV_LS_Log)	1 / 0 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

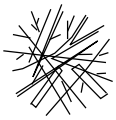
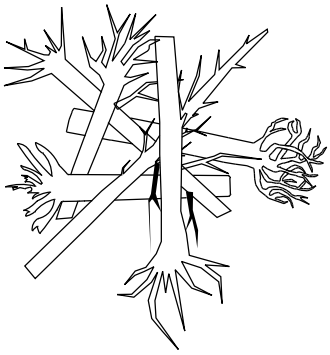
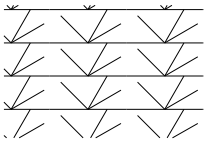
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Log 2 (EV_LS_Log)	1 / 0 / 9 / Cell	
Log 3 (EV_LS_Log)	1 / 0 / 9 / Cell	
Log 4 (EV_LS_Log)	1 / 0 / 9 / Cell	
Log 5 (EV_LS_Log)	1 / 0 / 9 / Cell	
Log 6 (EV_LS_Log)	1 / 0 / 9 / Cell	
Log 7 (EV_LS_Log)	1 / 0 / 9 / Cell	
Log 8 (EV_LS_Log)	1 / 0 / 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

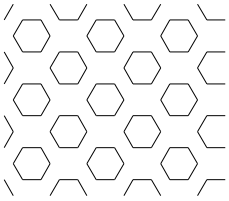
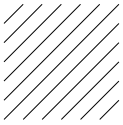
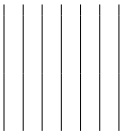
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Media Filter Drain New (EV_LS_MediaFilterDrainNew) Text Size = 0.06 Font = arialbd / 217	2 / Custom 9 / Line	
Media Filter Drain No Dir New (EV_LS_MediaFilterDrainNoDirNew)	2 / Custom 9 / Line	
Pile Brush (EV_LS_PileBrush)	1 / 0 9 / Cell	
Pile Log (EV_LS_PileLog)	1 / 0 9 / Cell	
Pile Rock (EV_LS_PileRock)	1 / 0 9 / Cell	
Planting Emergent New (EV_LS_PlantingEmergentNew)	1 / 0 7 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Planting Floodplain Area Type 1 (EV_LS_PlantingFloodplainAreaTy1)	1 / 0 / 39 / Cell	
Planting Floodplain Area Type 2 (EV_LS_PlantingFloodplainAreaTy2)	1 / 0 / 71 / Cell	
Planting Forested (EV_LS_PlantingForested)	1 / 0 / 9 / Cell	
Planting Mix A (EV_LS_PlantingMixA)	0 / 0 / 9 / Cell	
Planting Mix B (EV_LS_PlantingMixB)	0 / 0 / 9 / Cell	
Planting Mix C (EV_LS_PlantingMixC)	0 / 0 / 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

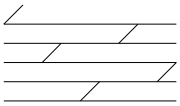
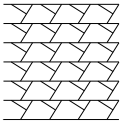
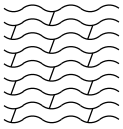
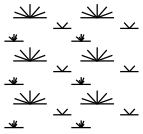
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Planting Mix D (EV_LS_PlantingMixD)	0	0 / 9 Cell	
Planting Mix E (EV_LS_PlantingMixE)	0	0 / 9 Cell	
Planting Mix F (EV_LS_PlantingMixF)	0	0 / 9 Cell	
Planting Mix G (EV_LS_PlantingMixG)	0	0 / 9 Cell	
Planting Mix H (EV_LS_PlantingMixH)	0	0 / 9 Cell	
Planting Mix I (EV_LS_PlantingMixI)	0	0 / 9 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

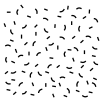
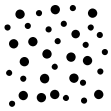
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Planting Mix J (EV_LS_PlantingMixJ)	0 / 0 / 9 / Cell	
Planting Mix K (EV_LS_PlantingMixK)	0 / 0 / 9 / Cell	
Planting Mix L (EV_LS_PlantingMixL)	0 / 0 / 9 / Cell	
Planting Stormwater Buffer (EV_LS_PlantingStormwaterBuffer)	1 / 0 / 0 / Cell	
Planting Stream Buffer (EV_LS_PlantingStreamBuffer)	1 / 0 / 0 / Cell	
Planting Upland (EV_LS_PlantingUpland)	1 / 0 / 9 / Cell	
Planting Wetland Restore (EV_LS_PlantingWetlandRestore)	1 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Riparian (EV_LS_Riparian)	1 / 0 9 / Line	
Seeding (EV_LS_Seeding)	1 / 0 9 / Cell	
Seeding Emergent (EV_LS_SeedingEmergent)	1 / 0 9 / Cell	
Seeding Lawn (EV_LS_SeedingLawn)	1 / 0 9 / Cell	
Seeding Mix Dry Native (EV_LS_SeedingMixDryNative)	1 / 0 9 / Cell	
Seeding Mix Special (EV_LS_SeedingMixSpecial)	1 / 0 9 / Cell	
Seeding Mix Wet Native (EV_LS_SeedingMixWetNative)	1 / 0 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Shrub Elev 1 (EV_LS_Shrub)	1 / 0 / 23 / Cell	
Shrub Elev 10 (EV_LS_Shrub)	1 / 0 / 23 / Cell	
Shrub Elev 2 (EV_LS_Shrub)	1 / 0 / 23 / Cell	
Shrub Elev 3 (EV_LS_Shrub)	1 / 0 / 23 / Cell	
Shrub Elev 4 (EV_LS_Shrub)	1 / 0 / 23 / Cell	
Shrub Elev 5 (EV_LS_Shrub)	1 / 0 / 23 / Cell	
Shrub Elev 6 (EV_LS_Shrub)	1 / 0 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

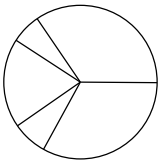
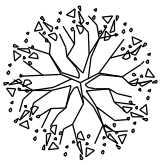
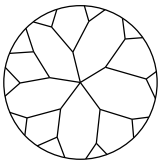
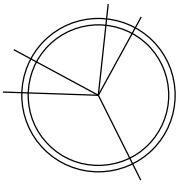
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Shrub Elev 7 (EV_LS_Shrub)	1 / 0 23 / Cell	
Shrub Elev 8 (EV_LS_Shrub)	1 / 0 23 / Cell	
Shrub Elev 9 (EV_LS_Shrub)	1 / 0 23 / Cell	
Sod Lawn (EV_LS_SodLawn)	1 / 0 9 / Cell	
Sodding New (EV_LS_SoddingNew) Text Size = 0.06 Font = arialbd / 217	2 / 0 9 / Cell	
Soil Amendment (EV_LS_SoilAmendment)	0 / 0 9 / Line	
Soil Decompation Area (EV_LS_SoilDecompationArea)	10 / 7 9 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

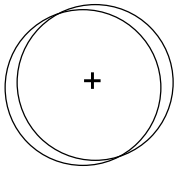
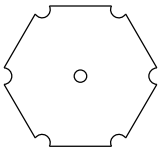
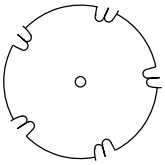
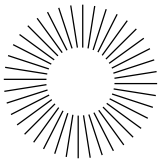
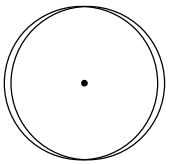
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Stump (EV_LS_Stump)	1 / 0 / 9 / Cell	
Topsoil New (EV_LS_TopsoilNew)	1 / 0 / 9 / Cell	
Tree 1 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 10 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 11 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 12 (EV_LS_Tree)	1 / 0 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

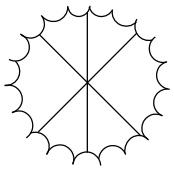
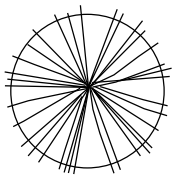
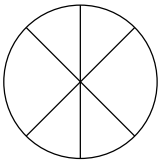
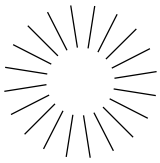
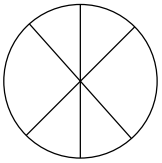
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Tree 13 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 14 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 15 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 16 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 17 (EV_LS_Tree)	1 / 0 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

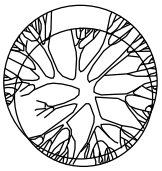
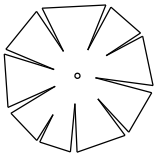
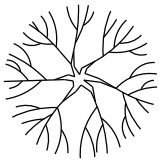
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Tree 18 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 2 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 3 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 4 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 5 (EV_LS_Tree)	1 / 0 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

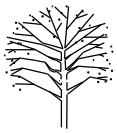
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Tree 6 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 7 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 8 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree 9 (EV_LS_Tree)	1 / 0 / 23 / Cell	
Tree Elev 1 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 10 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

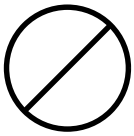
EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Tree Elev 11 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 12 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 13 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 14 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 15 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 2 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 3 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Tree Elev 4 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 5 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 6 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 7 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 8 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree Elev 9 (EV_LS_TreeElev)	1 / 0 / 23 / Cell	
Tree To Be Removed (EV_LS_TreeToBeRemoved)	3 / 0 / 9 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV LS Environmental - Landscape

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Weed Control Area (EV_LS_WeedControlArea)	10 / 3 / 9 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV RH Environmental - River Hydraulics

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Boulder New (EV_RH_BoulderNew)	0 / 0 9 / Cell	
River Hydraulics Text (EV_RH_RiverHydraulicsText) Text Size = 0.07 Font = arial / 164	0 / 0 87 / Text	*River Hydraulics*
Stream Slope Break (EV_RH_StreamSlopeBreak)	0 / 2 119 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
100 Year Flood (EV_WL_100YearFlood) Text Size = 0.06 Font = arialbd / 217	2	Custom 23 Line	100 YR
500 Year Flood (EV_WL_500YearFlood) Text Size = 0.06 Font = arialbd / 217	2	Custom 23 Line	500 YR
Biofiltration Swale (EV_WL_BiofiltrationSwale)	2	Custom 55 Line	
Biofiltration Swale New (EV_WL_BiofiltrationSwaleNew)	2	Custom 41 Line	
Bndry Wetland (EV_WL_BndryWetland) Text Size = 0.06 Font = arialbd / 217	2	Custom 55 Line	WB
Bndry Wetland Inventory New (EV_WL_BndryWetlandInventoryNew) Text SIze = 0.06 Font = arialbd / 217	3	Custom 41 Line	INV INV INV INV INV
Bndry Wetland New (EV_WL_BndryWetlandNew) Text Size = 0.06 Font = arialbd / 217	3	Custom 41 Line	WB

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Constructed Wetland New (EV_WL_ConstructedWetlandNew)	0	Custom	
	41	Line	
Emergent Fresh Marsh (EV_WL_EmergentFreshMarsh)	2	3	
	119	Line	
Emergent Fresh Marsh New (EV_WL_EmergentFreshMarshNew)	2	0	
	105	Line	
Estuary Itidal Hi Salt Marsh (EV_WL_EstlTidalHiSaltMarsh)	2	Custom	THSM
Text Size = 0.06, Font = arialbd / 217	87	Line	
Estuary ITidal Hi Salt Marsh New (EV_WL_EstlTidalHiSaltMarshNew)	2	Custom	THSM
Text Size = 0.06, Font = arialbd / 217	73	Line	
Estuary Stidal Lo Salt Marsh (EV_WL_EstSTidalLoSaltMarsh)	2	Custom	TLSM
Text SIze = 0.06, Font = arialbd / 217	87	Line	
Estuary STidal Lo Salt Marsh New (EV_WL_EstSTidalLoSaltMarshNew)	2	Custom	TLSM
Text Size = 0.06, Font = arialbd / 217	73	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Flag (EV_WL_Flag) Text Size = 0.07 Font = arialbd / 217	0 / 0 55 / Cell	??
Forested (EV_WL_Forested)	2 / 3 119 / Line	
Forested New (EV_WL_ForestedNew)	2 / 0 105 / Line	
Open Fresh Pond (EV_WL_OpenFreshPond)	2 / 3 119 / Line	
Open Fresh Pond New (EV_WL_OpenFreshPondNew)	2 / 0 105 / Line	
River Edge New (EV_WL_RiverEdgeNew)	2 / 3 105 / Line	
Scrub Shrub (EV_WL_ScrubShrub)	2 / 3 119 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Scrub Shrub Forested (EV_WL_ScrubShrubForested)	2	3	
	23	Line	
Scrub Shrub Forested New (EV_WL_ScrubShrubForestedNew)	2	0	
	9	Line	
Scrub Shrub New (EV_WL_ScrubShrubNew)	2	0	
	105	Line	
Storm Water Treatment New (EV_WL_StormWaterTrtmntNew)	2	0	
	41	Line	
Storm Water Treattment (EV_WL_StormWaterTrtmnt)	2	3	
	55	Line	
Stream Buffer (EV_WL_StreamBuffer)	2	Custom	
	0	Line	
Stream Edge New (EV_WL_StreamEdgeNew)	2	3	
	105	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Water Line Mean High (EV_WL_WaterLineMeanHigh) Text Size = 0.06 Font = arialbd / 217	2 / Custom 23 / Line	MHW
Water Line Mean Higher High (EV_WL_WaterLineMeanHigherHigh) Text Size = 0.06 Font = arialbd / 217	2 / Custom 23 / Line	MHHW
Water Line Mean Low (EV_WL_WaterLineMeanLow) Text SIze = 0.06 Font = arialbd / 217	2 / Custom 23 / Line	MLW
Water Line Mean Lower Low (EV_WL_WaterLineMeanLowerLow) Text Size = 0.06 Font = arialbd / 217	2 / Custom 23 / Line	MLLW
Water Line Normal High Maximum Lake Level (EV_WL_WaterLineNrmHighMaxLkLvl)	2 / Custom 23 / Line	
Water Line Ordinary High (EV_WL_WaterLineOrdinaryHigh) Text SIze = 0.06 Font = arialbd / 217	0 / Custom 0 / Line	OHW
Water Line Ordinary High Flag (EV_WL_WaterLineOrdinaryHighFlag)	0 / 0 55 / Cell	??

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

EV WL Environmental - Wetlands

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Wetland Mitigation Buffer (EV_WL_WetlandMitigationBuffer)	0	Custom	
	41	Line	
Wetland Mitigation Buffer New (EV_WL_WetlandMitigationBuffNew)	2	Custom	
	9	Line	
Wetland Sample Flag (EV_WL_WetlandSampleFlag)	0	0	??
	55	Cell	
Wetland Symbol (EV_WL_WetlandSymb)	0	0	
	55	Cell	
Wetlands Text (EV_WL_WetlandsText) Text Size = 0.07 Font = ariali / 164	0	0	*WETLANDS*
	23	Text	
Wetlands Text New (EV_WL_WetlandsTextNew) Text Size = 0.07 Font = arialbd / 217	0	0	**WETLANDS**
	41	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

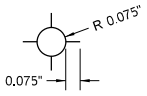
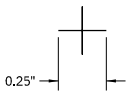
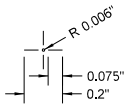
PM MN Photo, Monuments and Control - Monuments and Control

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Monument Calculated (PM_MN_MonumentCalcd)	0	0	
	60	Cell	
Monument Case and Cover (PM_MN_MonumentCaseandCover)	0	0	R 0.025" R 0.033"
	60	Cell	
Monument Case and Cover New (PM_MN_MonumentCaseandCoverNew)	0	0	
	44	Cell	
Monument Found (PM_MN_MonumentFound)	0	0	
	60	Cell	
Monument New (PM_MN_MonumentNew)	0	0	
	44	Cell	
Primary Control Point (PM_MN_PrimaryControlPoint)	1	0	
	28	Cell	
Temp Control Point (PM_MN_TempControlPoint)	1	0	R 0.006" R 0.037" 0.13"
	28	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

PM PH Photo, Monuments and Control - Photo Control

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Photo Center (PM_PH_PhotoCenter)	1 / 0 / 92 / Cell	
Photo Control Points Text (PM_PH_PhotoControlPointsText) Text Size = 0.07 Font = arial / 164	0 / 0 / 92 / Text	*TARGET INFO*
Photo Grid Tic (PM_PH_PhotoGridTic)	1 / 0 / 92 / Cell	
Photo Horizontal Vertical Control Point (PM_PH_PhotoHorVertControlPoint)	1 / 0 / 92 / Cell	
Photo Vertical Control Point (PM_PH_PhotoVertControlPoint)	0 / 0 / 92 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD BM Roadway Features - Berms

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Asphalt Berm (RD_BM_AsphaltBerm)	0 / 0 61 / Line	
Berm Text (RD_BM_BermText) Text Size = 0.07 Font = arial / 164	0 / 0 29 / Text	*TOP OF BERM*
Berm Text New (RD_BM_BermTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 13 / Text	**TOP OF BERM**
Noise Berm (RD_BM_NoiseBerm)	0 / 0 61 / Line	
Noise Berm New (RD_BM_NoiseBermNew)	3 / 0 45 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

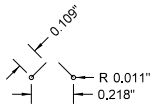
RD BR Roadway Features - Barriers

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Barrier Center (RD_BR_BarrierCenter)	0	Custom	
	29	Line	
Barrier Center New (RD_BR_BarrierCenterNew)	0	Custom	
	13	Line	
Barrier Center Temporary (RD_BR_BarrierCenterTemporary)	0	Custom	
	13	Line	
Barrier Text (RD_BR_BarrierText) Text Size = 0.07 Font = ariali / 164	0	0	*BARRIER FACE*
	61	Text	
Barrier Text New (RD_BR_BarrierTextNew) Text Size = 0.07 Font = arialbd / 217	0	0	**BARRIER FACE**
	45	Text	
Bollard (RD_BR_Bollard)	0	0	R 0.02"
	93	Cell	
Bollard New (RD_BR_BollardNew)	0	0	
	77	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD BR Roadway Features - Barriers

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Cable Barrier (RD_BR_CableBarrier)	0	Custom	
	125	Line	
Cable Barrier New (RD_BR_CableBarrierNew)	0	Custom	
	109	Line	
Fence (RD_BR_Fence)	0	Custom	
	157	Line	
Fence New (RD_BR_FenceNew)	0	Custom	
	141	Line	
Gate (RD_BR_Gate)	0	0	
	157	Cell	
Gate New (RD_BR_GateNew)	0	0	
	141	Cell	
Gate Single (RD_BR_GateSingle)	0	0	
	157	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD BR Roadway Features - Barriers

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Gate Single New (RD_BR_GateSingleNew)	0	0	
	141	Cell	
Guardrail (RD_BR_Guardrail)	0	Custom	
	125	Line	
Guardrail New (RD_BR_GuardrailNew)	0	Custom	
	109	Line	
Guide Post (RD_BR_GuidePost)	0	0	R 0.02"
	93	Cell	
Guide Post New (RD_BR_GuidePostNew)	1	0	
	77	Cell	
Impact Attenuator (RD_BR_ImpactAttenuator)	0	0	0.05" 0.2"
	125	Cell	
Impact Attenuator New (RD_BR_ImpactAttenuatorNew)	0	0	
	109	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD CG Roadway Features - Curb, Gutter, Sidewalk

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Curb Face (RD_CG_CurbFace)	0	4 / 61 Line	
Curb Face New (RD_CG_CurbFaceNew)	1	0 / 45 Line	
Curb Gutter Sidewalk Text (RD_CG_CurbGutterSidewalkText) Text Size = 0.07 Font = ariali / 164	0	0 / 61 Text	*BACK OF SIDEWALK*
Curb Gutter Sidewalk Text New (RD_CG_CurbGutterSidewalkTextNew) Text Size = 0.07 Font = arialbd / 217	0	0 / 45 Text	**BACK OF SIDEWALK**
Sidewalk (RD_CG_Sidewalk)	0	3 / 29 Line	
Sidewalk New (RD_CG_SidewalkNew)	1	0 / 13 Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD ED Roadway Features - Edges

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Bike Path Edge (RD_ED_BikePathEdge)	0 / 2 / 157 / Line	
Bike Path Edge New (RD_ED_BikePathEdgeNew)	1 / 0 / 141 / Line	
Driveway Edge (RD_ED_DrivewayEdge)	0 / 2 / 125 / Line	
Driveway Edge New (RD_ED_DrivewayEdgeNew)	1 / 0 / 109 / Line	
Driveway Gravel Edge (RD_ED_DrivewayGravelEdge)	0 / 5 / 125 / Line	
Driveway Paved Edge (RD_ED_DrivewayPavedEdge)	0 / 2 / 125 / Line	
Lane Edge New (RD_ED_LaneEdgeNew)	1 / 0 / 45 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD ED Roadway Features - Edges

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Paved Area New (RD_ED_PavedAreaNew)	1 / 0 141 / Line	
Paved Parking Area New (RD_ED_PavedParkingAreaNew)	1 / 0 141 / Line	
Pavement Removal Boundary (RD_ED_PavementRemovalBndry)	3 / 0 141 / Line	
Pedestrian Path Edge (RD_ED_PedPathEdge)	0 / 2 157 / Line	
Pedestrian Path Edge New (RD_ED_PedPathEdgeNew)	1 / 0 141 / Line	
Roadway Edges Text (RD_ED_RoadwayEdgesText) Text Size = 0.07 Font = ariali / 164	0 / 0 29 / Text	*EDGE OF LANE*
Roadway Edges Text New (RD_ED_RoadwayEdgesTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 13 / Text	**EDGE OF LANE**

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD ED Roadway Features - Edges

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Roadway ETW Gravel (RD_ED_RoadwayETWGravel)	0	5	
	29	Line	
Roadway ETW Gravel New (RD_ED_RoadwayETWGravelNew)	1	0	
	13	Line	
Roadway ETW Paved (RD_ED_RoadwayETWPaved)	0	2	
	29	Line	
Roadway ETW Paved New (RD_ED_RoadwayETWPavedNew)	1	0	
	13	Line	
Sawcut (RD_ED_Sawcut)	0	Custom	SAW SAW SAW
	157	Line	
Sawcut New (RD_ED_SawcutNew) Text Size = 0.06 Font = arialbd / 217	0	Custom	SAW SAW SAW
	141	Line	
Sawcut Text New (RD_ED_SawcutTextNew) Text Size = 0.07 Font = arialbd / 217	0	0	SAW CUT
	141	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD ED Roadway Features - Edges

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Shoulder BST Edge (RD_ED_ShoulderBSTEdge)	0 / 2 / 93 / Line	
Shoulder Gravel Edge (RD_ED_ShoulderGravelEdge)	0 / 5 / 93 / Line	
Shoulder Gravel Edge New (RD_ED_ShoulderGravelEdgeNew)	1 / 0 / 77 / Line	
Shoulder Paved Edge (RD_ED_ShoulderPavedEdge)	0 / 2 / 93 / Line	
Shoulder Paved Edge New (RD_ED_ShoulderPavedEdgeNew)	1 / 0 / 77 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

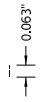
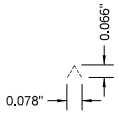
RD MC Roadway Features - Miscellaneous

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Clear Zone Inventory Boundary (RD_MC_ClearZoneInventoryBndry) Text Size = 0.06 Font = arialbd / 217	0 / Custom 61 / Line	- CZ — — CZ — — CZ — — CZ — — CZ — –
Roadway Names Text (RD_MC_RoadwayNamesText) Text Size = 0.05 Font = arial / 200	0 / 0 29 / Text	CHANCE ROAD

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Aerial Survey Inc Mark Full (RD_MK_AerialSurvIncMarkFull)	0 / 0 0 / Cell	
Aerial Survey Inc Mark Full New (RD_MK_AerialSurvIncMarkFullNew)	0 / 0 0 / Cell	
Aerial Survey Inc Mark Half (RD_MK_AerialSurvIncMarkHalf)	0 / 0 0 / Cell	
Aerial Survey Inc Mark Half New (RD_MK_AerialSurvIncMarkHalfNew)	0 / 0 0 / Cell	
Bike Symbol* (RD_MK_BikeSymb) Sized for a 20 scale drawing.	0 / 2 0 / Cell	
Bike Symbol Arrow* (RD_MK_BikeSymbArrow) Sized for a 20 scale drawing.	0 / 2 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Bike Symbol Arrow New* (RD_MK_BikeSymbArrowNew) Sized for a 20 scale drawing.	0 / 0 0 / Cell	
Bike Symbol New* (RD_MK_BikeSymbNew) Sized for a 20 scale drawing.	0 / 0 0 / Cell	
Handicap Parking Symbol* (RD_MK_HCapParkingSymb) Sized for a 20 scale drawing.	0 / 0 0 / Cell	
Handicap Parking Symbol New* (RD_MK_HCapParkingSymbNew) Sized for a 20 scale drawing.	0 / 0 0 / Cell	
HOV Symbol* (RD_MK_HOVSymb) Sized for a 20 scale drawing.	0 / 0 0 / Cell	
HOV Symbol New* (RD_MK_HOVSymbNew) Sized for a 20 scale drawing.	1 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Line Crosswalk (RD_MK_LineCrosswalk)	4 / 2 / 29 / Line	
Line Crosswalk New (RD_MK_LineCrosswalkNew)	4 / 0 / 0 / Line	
Line Generic (RD_MK_LineGeneric)	1 / 3 / 29 / Line	
Line Generic New (RD_MK_LineGenericNew)	2 / 0 / 0 / Line	
Line RPM Skip (RD_MK_LineRPMSkip)	1 / Custom / 29 / Line	
Line RPM Skip New (RD_MK_LineRPMSkipNew)	2 / Custom / 0 / Line	
Line RPM Solid (RD_MK_LineRPMSolid)	1 / Custom / 29 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

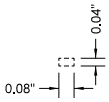
RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Line RPM Solid New (RD_MK_LineRPMSolidNew)	2 / Custom 0 / Line	
Line Skip Center* (RD_MK_LineSkipCenter) Sized for a 40 scale drawing.	1 / Custom 29 / Line	
Line Skip Center New* (RD_MK_LineSkipCenterNew) Sized for a 40 scale drawing.	2 / Custom 4 / Line	
Line Stop (RD_MK_LineStop)	4 / 2 29 / Line	
Line Stop New (RD_MK_LineStopNew)	4 / 0 0 / Line	
Line Wide* (RD_MK_LineWide) Sized for a 100 scale drawing.	3 / 2 29 / Line	
Line Wide New* (RD_MK_LineWideNew) Sized for a 100 scale drawing.	3 / 0 0 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Only Symbol* (RD_MK_OnlySymbol) Sized for a 20 scale drawing.	0 / 0 29 / Cell	
Only Symbol New* (RD_MK_OnlySymbolNew) Sized for a 20 scale drawing.	0 / 0 13 / Cell	
Raised Pavement Marker Type 1 (RD_MK_RaisedPvmntMarkerType1)	0 / 0 29 / Cell	
Raised Pavement Marker Type 1 New (RD_MK_RaisedPvmntMarkerType1New)	1 / 0 13 / Cell	
Raised Pavement Marker Type 2 (RD_MK_RaisedPvmntMarkerType2)	0 / 0 29 / Cell	
Raised Pavement Marker Type 2 New (RD_MK_RaisedPvmntMarkerType2New)	1 / 0 13 / Cell	
Raised Pavement Marker Type 3 (RD_MK_RaisedPvmntMarkerType3)	0 / 0 29 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Raised Pavement Marker Type 3 New (RD_MK_RaisedPvmntMarkerType3New)	1 / 0 13 / Cell	
Roadway Marking Text (RD_MK_RoadwayMarkingText) Text Size = 0.07 Font = arial / 164	0 / 0 29 / Text	*EDGE OF LANE*
Roadway Marking Text New (RD_MK_RoadwayMarkingTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 13 / Text	**EDGE OF LANE**
RR Symbol* (RD_MK_RRSymb) Sized for a 20 scale drawing.	0 / 2 0 / Cell	RR
RR Symbol New* (RD_MK_RRSymbNew) Sized for a 20 scale drawing.	1 / 0 0 / Cell	RR
Rumble Strip (RD_MK_RumbleStrip)	0 / Custom 29 / Line	
Rumble Strip New (RD_MK_RumbleStripNew)	0 / Custom 13 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Arrow RA Type LC (RD_MK_TrafficArrowRATypeLC)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LC New (RD_MK_TrafficArrowRATypeLCNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LR (RD_MK_TrafficArrowRATypeLR)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LR New (RD_MK_TrafficArrowRATypeLRNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LRC (RD_MK_TrafficArrowRATypeLRC)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LRC New (RD_MK_TrafficArrowRATypeLRCNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LT (RD_MK_TrafficArrowRATypeLT)	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Arrow RA Type LT New (RD_MK_TrafficArrowRATypeLTNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LTC (RD_MK_TrafficArrowRATypeLTC)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LTC New (RD_MK_TrafficArrowRATypeLTCNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LTR (RD_MK_TrafficArrowRATypeLTR)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LTR New (RD_MK_TrafficArrowRATypeLTRNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LTRC (RD_MK_TrafficArrowRATypeLTRC)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type LTRC New (RD_MK_TrafficArrowRATypeLTRCNew)	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

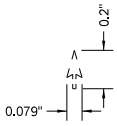
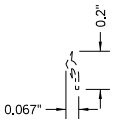
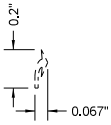
RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Arrow RA Type T (RD_MK_TrafficArrowRATypeT)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type T New (RD_MK_TrafficArrowRATypeTNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type TC (RD_MK_TrafficArrowRATypeTC)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type TC New (RD_MK_TrafficArrowRATypeTCNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type TR (RD_MK_TrafficArrowRATypeTR)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type TR New (RD_MK_TrafficArrowRATypeTRNew)	0 / 0 / 0 / Cell	
Traffic Arrow RA Type TRC (RD_MK_TrafficArrowRATypeTRC)	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

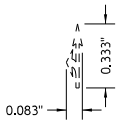
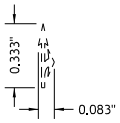
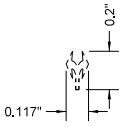
RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Arrow RA Type TRC New (RD_MK_TrafficArrowRATypeTRCNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 1 S (RD_MK_TrafficArrowType1S)	0 / 0 / 0 / Cell	
Traffic Arrow Type 1 S New (RD_MK_TrafficArrowType1SNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 2 L (RD_MK_TrafficArrowType2L)	0 / 0 / 0 / Cell	
Traffic Arrow Type 2 L New (RD_MK_TrafficArrowType2LNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 2 R (RD_MK_TrafficArrowType2R)	0 / 0 / 0 / Cell	
Traffic Arrow Type 2 R New (RD_MK_TrafficArrowType2RNew)	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

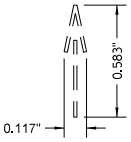
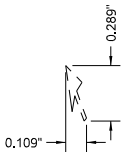
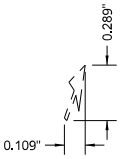
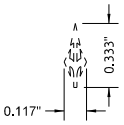
RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Arrow Type 3 LS (RD_MK_TrafficArrowType3LS)	0 / 0 / 0 / Cell	
Traffic Arrow Type 3 LS New (RD_MK_TrafficArrowType3LSNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 3 RS (RD_MK_TrafficArrowType3RS)	0 / 0 / 0 / Cell	
Traffic Arrow Type 3 RS New (RD_MK_TrafficArrowType3RSNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 4 LR (RD_MK_TrafficArrowType4LR)	0 / 0 / 0 / Cell	
Traffic Arrow Type 4 LR New (RD_MK_TrafficArrowType4LRNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 5 Big S New (RD_MK_TrafficArrowType5BigSNew)	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Arrow Type 5 Big S (RD_MK_TrafficArrowType5BigS)	0 / 0 / 0 / Cell	
Traffic Arrow Type 6 L (RD_MK_TrafficArrowType6L)	0 / 0 / 0 / Cell	
Traffic Arrow Type 6 L New (RD_MK_TrafficArrowType6LNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 6 R (RD_MK_TrafficArrowType6R)	0 / 0 / 0 / Cell	
Traffic Arrow Type 6 R New (RD_MK_TrafficArrowType6RNew)	0 / 0 / 0 / Cell	
Traffic Arrow Type 7 LRS (RD_MK_TrafficArrowType7LRS)	0 / 0 / 0 / Cell	
Traffic Arrow Type 7 LRS New (RD_MK_TrafficArrowType7LRSNew)	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Button (RD_MK_TrafficButton)	0 / 0 / 29 / Cell	
Yield Ahead Symbol Type 1* (RD_MK_YieldAheadSymbType1) Sized for a 100 scale drawing.	0 / 0 / 0 / Cell	
Yield Ahead Symbol Type 1 New* (RD_MK_YieldAheadSymbType1New) Sized for a 100 scale drawing.	1 / 0 / 0 / Cell	
Yield Ahead Symbol Type 2* (RD_MK_YieldAheadSymbType2) Sized for a 100 scale drawing.	0 / 0 / 0 / Cell	
Yield Ahead Symbol Type 2 New* (RD_MK_YieldAheadSymbType2New) Sized for a 100 scale drawing.	1 / 0 / 0 / Cell	
Yield Symbol Type 1* (RD_MK_YieldSymbType1) Sized for a 50 scale drawing.	0 / 0 / 0 / Cell	
Yield Symbol Type 1 New* (RD_MK_YieldSymbType1New) Sized for a 50 scale drawing.	1 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RD MK Roadway Features - Markings

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Yield Symbol Type 2* (RD_MK_YieldSymbType2) Sized for a 50 scale drawing.	0 / 0 0 / Cell	
Yield Symbol Type 2 New* (RD_MK_YieldSymbType2New) Sized for a 50 scale drawing.	1 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW BD Right of Way - RW Boundaries

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Highway RW Boundary PSE (RW_BD_HighwayRWBndryPSE)	5 / 0 19 / Line	
Highway RW Boundary PSE SO Text (RW_BD_HighwayRWBndryPSESOText) Text Size = 0.07 Font = arial / 164	0 / 0 19 / Text	*MR 10+88.03 (50' RT.)*
LAccess Floating Left New (RW_BD_LAccessFloatingLtNew)	2 / Custom 35 / Line	
LAccess Floating Right New (RW_BD_LAccessFloatingRtNew)	2 / Custom 35 / Line	
LAccess Proposed RW Left (RW_BD_LAccessProposedRWLt)	5 / Custom 35 / Line	
LAccess Proposed RW Right (RW_BD_LAccessProposedRWRt)	5 / Custom 35 / Line	
RR RW Boundary (RW_BD_RRRWBndry)	2 / Custom 147 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW ES Right of Way - Easements & Permits

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Easement Line New (RW_ES_EsmntLineNew)	3	0	
	3	Line	
Permit Line New (RW_ES_PermitLineNew)	3	0	
	67	Line	
Subterranean Easement Line New (RW_ES_SubterraneanEsmntLineNew)	3	0	
	99	Line	
Temp Construction Easement Line New (RW_ES_TempConstrEsmntLineNew)	3	0	
	131	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW GB Right of Way - Government Boundaries

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Corp Limit Line (RW_GB_CorpLimitLine)	5	Custom	
	19	Line	
County Line (RW_GB_CountyLine)	5	Custom	
	51	Line	
Forest Boundary (RW_GB_ForestBndry)	4	Custom	
	83	Line	
Government Boundary Text (RW_GB_GovtBndryText) Text Size = 0.1 Font = arialbd / 217	0	0	**STATE PARK**
	19	Text	
Park Boundary (RW_GB_ParkBndry)	4	Custom	
	115	Line	
Reservation Boundary (RW_GB_ReservationBndry)	4	Custom	
	147	Line	
State Boundary (RW_GB_StateBndry)	5	Custom	
	19	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW PA Right of Way - Parcels

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
City Names Text (RW_PA_CityNamesText) Text Size = 0.2 Font = BLOCK OUTLINE / 42	1 | 0 19 | Text	FIFE
ER Parcel Number (RW_PA_ERParcelNumber) Text Size = 0.06 Font = arial / 200	2 | 0 19 | Cell	0.35" 6- R 0.0625"
Interchange Names Text (RW_PA_InterchangeNamesText) Text SIze = 0.15 Font = BLOCK OUTLINE / 42	1 | 0 19 | Text	INTERCHANGE
NCR Parcel Number (RW_PA_NCRParcelNumber) Text Size = 0.06 Font = arial / 200	2 | 0 19 | Cell	2-xxxxx
NWR Parcel Number (RW_PA_NWRParcelNumber) Text Size = 0.06 Font = arial / 200	2 | 0 19 | Cell	1-xxxxx
OR Parcel Number (RW_PA_ORParcelNumber) Text SIze = 0.06 Font = arial / 200	2 | 0 19 | Cell	3-xxxxx
SCR Parcel Number (RW_PA_SCRParcelNumber) Text Size = 0.06 Font = arial / 200	2 | 0 19 | Cell	5-xxxxx

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

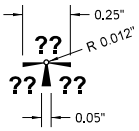
RW PA Right of Way - Parcels

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Subdivisions Names Text (RW_PA_SubdivisionsNamesText) Text Size = 0.1 Font = BLOCK OUTLINE / 42	1 / 0 51 / Text	SUBDIVISION
SWR Parcel Number (RW_PA_SWRParcelNumber) Text Size = 0.06 Font = arial / 200	2 / 0 19 / Cell	4-xxxxx

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
Bearings Text (RW_SC_BearingsText) Text Size = 0.06 Font = arial / 200	0 | 2 19 | Text	N 77°14'25" E
Center of Sections Text (RW_SC_CenterofSectionsText) Text Size = 0.09 Font = arial / 200	0 | 0 19 | Text	12
Closing Corner Found (RW_SC_ClosingCornerFound) Text SIze = 0.09 Font = arialbd / 217	1 | 0 19 | Cell	
Closing Corner Found North (RW_SC_ClosingCornerFoundNorth) Text Size = 0.09 Font = arialbd / 217	1 | 0 19 | Cell	
Closing Corner Not Found (RW_SC_ClosingCornerNotFound) Text Size = 0.09 Font = arialbd / 217	1 | 0 115 | Cell	
Descriptions Text (RW_SC_DescriptionsText) Text SIze = 0.05 Font = arial / 200	0 | 0 19 | Text	1" DIA. IRON PIPE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Government Lot ID Text (RW_SC_GovtLotIDText) Text Size = 0.09 Font = arialbd / 217	0 / 0 147 / Text	GOV'T LOT 3
Quarter Corner Found EW (RW_SC_QuarterCornerFoundEW) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	?? ??
Quarter Corner Found NS (RW_SC_QuarterCornerFoundNS) Text Size = 0.09 Font = arialbd / 217	1 / 0 115 / Cell	?? ??
Quarter Corner Not Found EW (RW_SC_QuarterCornerNotFoundEW) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	?? ??
Quarter Corner Not Found NS (RW_SC_QuarterCornerNotFoundNS) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	?? ??
Quarter Section Line (RW_SC_QuarterSectionLine)	3 / Custom 51 / Line	
Range Line (RW_SC_RangeLine)	5 / 0 115 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

RW SC Right of Way - Section Information

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Range Lines Text (RW_SC_RangeLinesText) Text Size = 0.13 Font = arialbd / 217	2 / 0 115 / Text	**T.2N. R.1E. W.M.**
Section Corner Found (RW_SC_SectionCornerFound) Text Size = 0.09 Font = arialbd / 217	1 / 0 19 / Cell	?? ?? ?? ??
Section Corner Not Found (RW_SC_SectionCornerNotFound) Text SIze = 0.09 Font = arialbd / 217	1 / 0 115 / Cell	?? ?? ?? ??
Section Line (RW_SC_SectionLine)	4 / Custom 19 / Line	
Township Line (RW_SC_TownshipLine)	5 / 0 147 / Line	
Township Range Line Text (RW_SC_TownshipRangeLineText) Text SIze = 0.13 Font = arialbd / 217	2 / 0 147 / Text	**T.2N. R.1E. W.M.**

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DE Sheet Items - Detail Sheets

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Detail Body 1 Text (SH_DE_DetailBody1Text) Text Size = 0.08 Font = arialbd / 217	0 / 0 0 / Text	BODY 1
Detail Body 2 Text (SH_DE_DetailBody2Text) Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Text	BODY 2
Detail Heading 1 Text (SH_DE_DetailHeading1Text) Text Size = 0.12 Font = arialbd / 217	0 / 0 0 / Text	**Heading 1**
Detail Heading 2 Text (SH_DE_DetailHeading2Text) Text Size = 0.1 Font = arialbd / 217	0 / 0 0 / Text	**Heading 2**
Detail Heading 3 Text (SH_DE_DetailHeading3Text) Text Size = 0.09 Font = arialbd / 217	0 / 0 0 / Text	**Heading 3**
Detail Level 1 (SH_DE_DetailLevel1)	0 / 0 0 / Line	
Detail Level 2 (SH_DE_DetailLevel2)	0 / 0 0 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DE Sheet Items - Detail Sheets

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Detail Level 3* (SH_DE_DetailLevel3) Sized for a 100 scale drawing.	0 / 0 0 / Line	
Detail Level 4 (SH_DE_DetailLevel4)	0 / 0 0 / Line	
Detail Level 5 (SH_DE_DetailLevel5)	0 / 0 0 / Line	
Detail Level 6 (SH_DE_DetailLevel6)	0 / 0 0 / Line	
Detail Level 7 (SH_DE_DetailLevel7)	0 / 0 0 / Line	
Detail Level 8 (SH_DE_DetailLevel8)	0 / 0 0 / Line	
Detail Level 9 (SH_DE_DetailLevel9)	0 / 0 0 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DP Sheet Items - Drainage Profiles

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Elevations Labels Text (SH_DP_ElevationsLabelsText) Text Size = 0.09 Font = arialbd / 217	0 / 0 18 / Text	**Elevations**
Finish Ground Profile (SH_DP_FinishGroundProfile)	3 / 0 0 / Line	
Flow Line Text (SH_DP_FlowlineText) Text SIze = 0.07 Font = ariali / 164	0 / 0 18 / Text	*Flowline*
Flow Line Text New (SH_DP_FlowlineTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Text	**Flowline**
Original Ground Profile (SH_DP_OriginalGroundProfile)	1 / 3 0 / Line	
Pipe (SH_DP_Pipe)	2 / 3 24 / Line	
Pipe New (SH_DP_PipeNew)	2 / 0 24 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DP Sheet Items - Drainage Profiles

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Quantity Breakout Horizontal Lines (SH_DP_QuantityBreakoutHorzLines)	0 / 0 1 / Line	
Quantity Breakout Text (SH_DP_QuantityBreakoutText) Text Size = 0.07 Font = arialbd / 217	0 / 0 17 / Text	**Quantity**
Quantity Breakout Vertical Lines (SH_DP_QuantityBreakoutVertLines)	0 / 0 0 / Line	
Slope Text (SH_DP_SlopeText) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Text	**Slope**
Station Offset Text (SH_DP_StationOffsetText) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Text	**Station Offset**
Structure (SH_DP_Structure)	2 / 3 24 / Line	
Structure New (SH_DP_StructureNew)	2 / 0 24 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DP Sheet Items - Drainage Profiles

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Structure Note Flag (SH_DP_StructureNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	? R 0.087"
Structure Note Flag Continue (SH_DP_StructureNoteFlagContinue) Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	? ? R 0.102"
Structure Note Flag Continue Large (SH_DP_StructureNoteFlagContinueLg) Text SIze = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	???? ? R 0.125"
Structure Text (SH_DP_StructureText) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Text	**Structure**
Water Surface Elevation (SH_DP_WaterSurfaceElev)	2 / 0 24 / Cell	

S5.05 Standard Symbols (cont.)

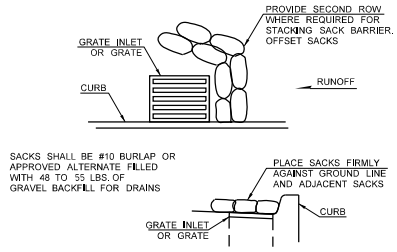
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

EC Curb and Gutter Inlet Barrier
(SH_DT_Details)
Example drawn at 50% actual size.

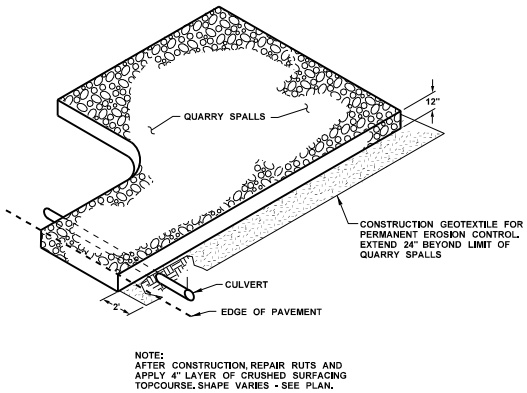
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



CURB AND GUTTER INLET BARRIER

EC Stabilized Const Entrance A
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

S5.05 Standard Symbols (cont.)

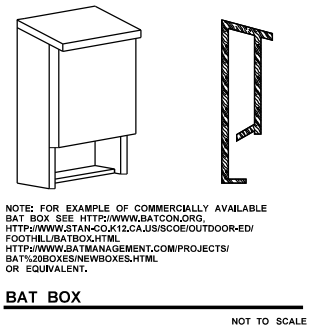
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

LS Bat Box
(SH_DT_Details)
Example drawn at 50% actual size.

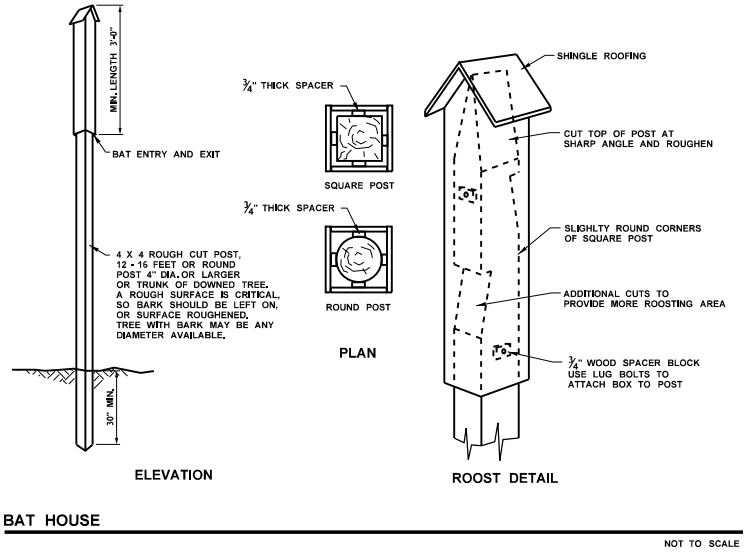
Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



LS Bat House 1
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

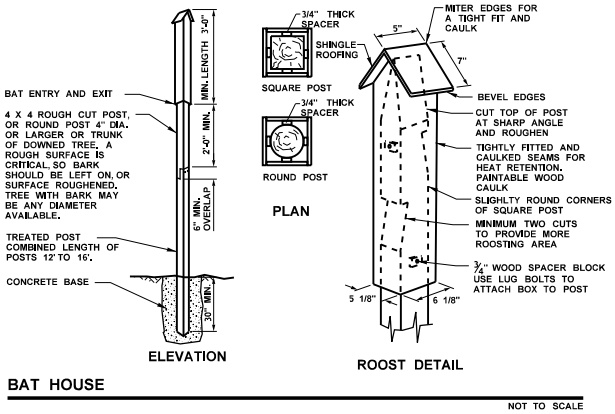
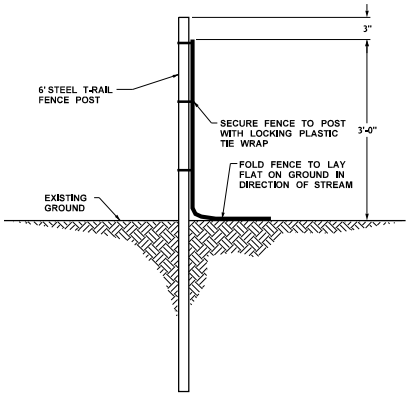
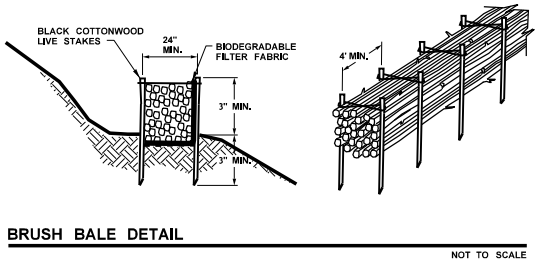
Body2
Text Size = 0.07
Font = arialbd / 217



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Bat House 2 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Header2 Text Size = 0.1 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	
LS Beaver Fence (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	
LS Brush Bale (SH_DT_Details) Example drawn at 50% actual size. Header1 Text SIze = 0.12 Font = arialbd / 217; Body2 Text SIze = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

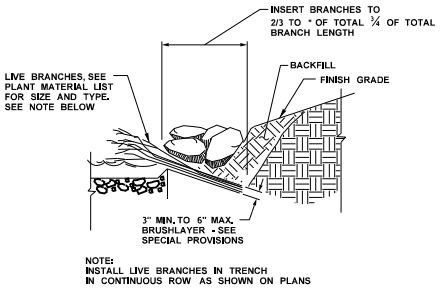
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

LS Brush Layer 1
(SH_DT_Details)
Example drawn at 50% actual size.

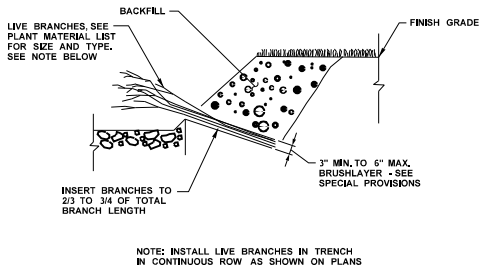
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



BRUSHLAYER INSTALLATION
NOT TO SCALE

LS Brush Layer 2
(SH_DT_Details)
Example drawn at 50% actual size.

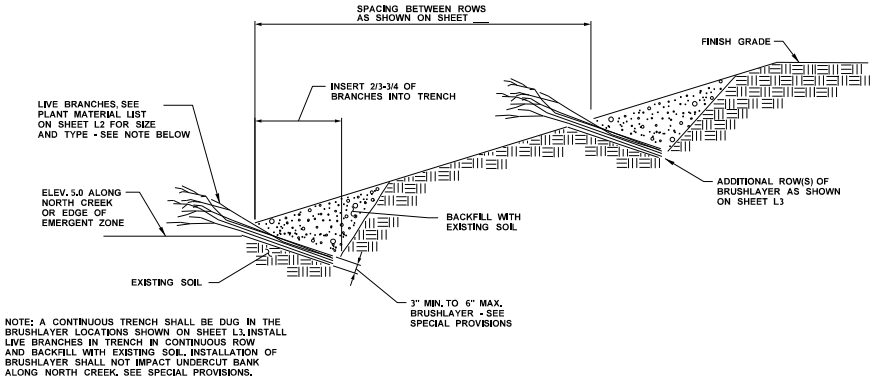
Header1	Body2	
Text SIze = 0.12	Text SIze = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



BRUSHLAYER INSTALLATION
NOT TO SCALE

LS Brush Layer 3
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

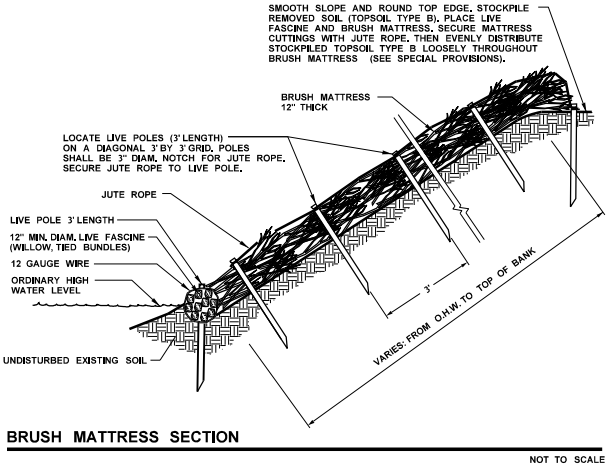
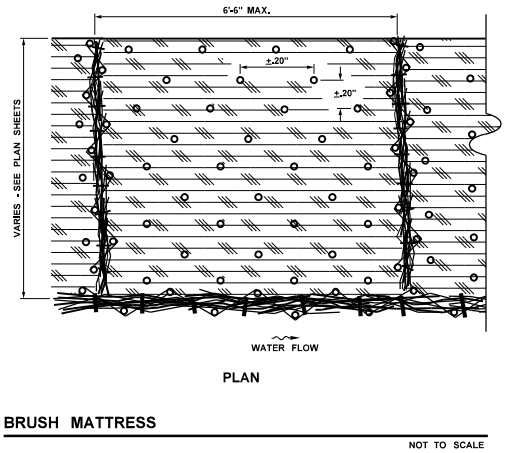


BRUSHLAYER INSTALLATION-SECTION/ELEVATION
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Brush Matteress Section (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	
LS Brush Mattress 1 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

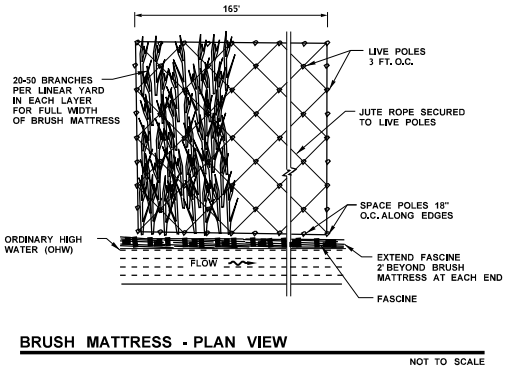
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

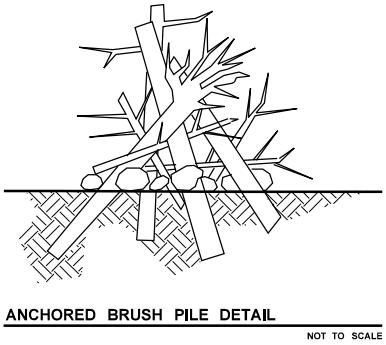
LS Brush Mattress 2
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



LS Brush Pile Anchored
(SH_DT_Details)
Example drawn at 50% actual size.

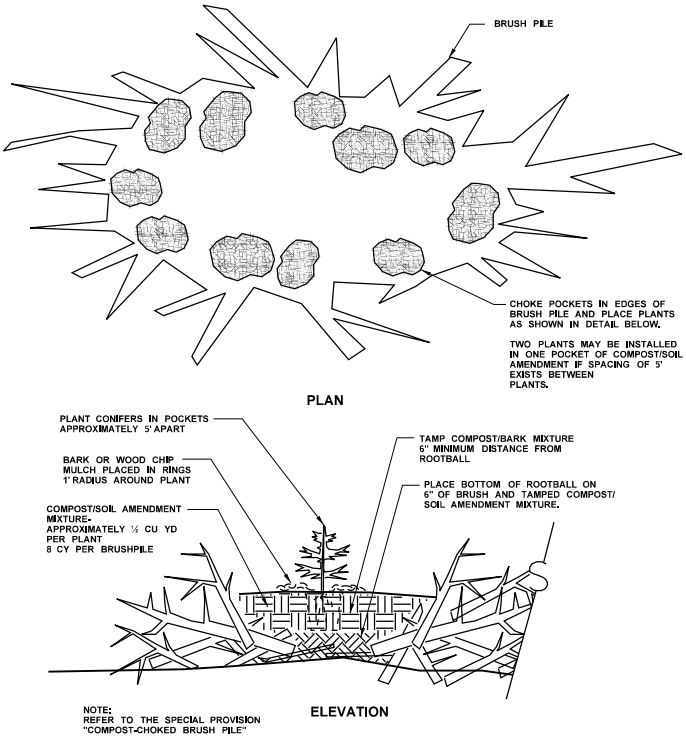
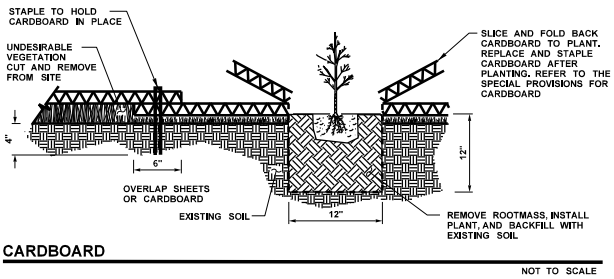
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

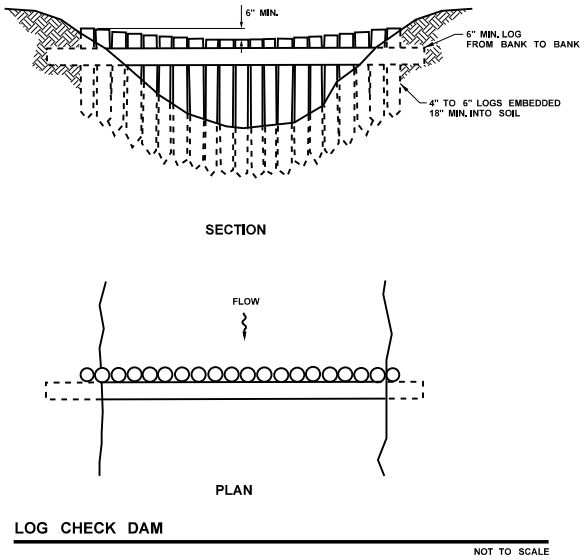
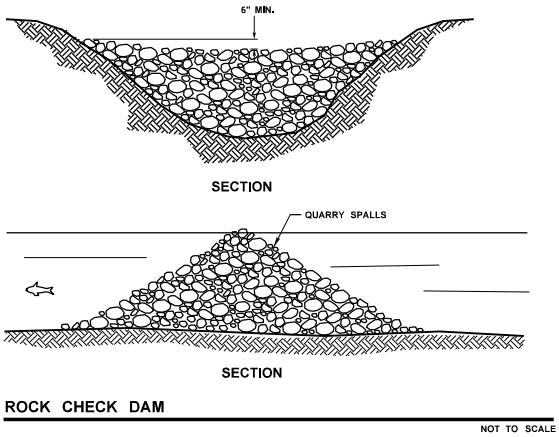
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Brush Pile Compost Chocked (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Header2 Text Size = 0.1 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	
LS Cardboard Mulch (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Check Dam With Logs (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
LS Check Dam With Rock (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

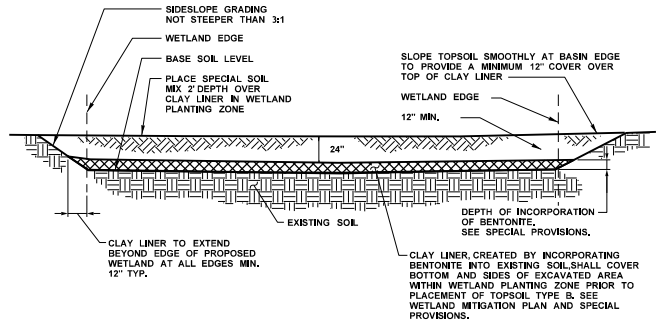
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

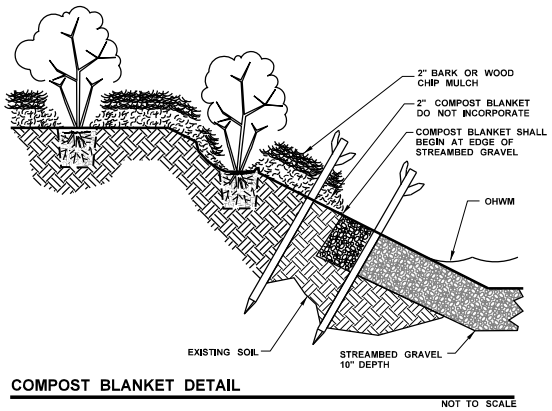
LS Clay Liner
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



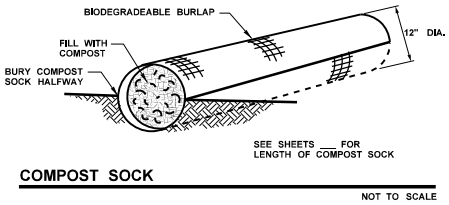
LS Compost Blanket
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



LS Compost Sock
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

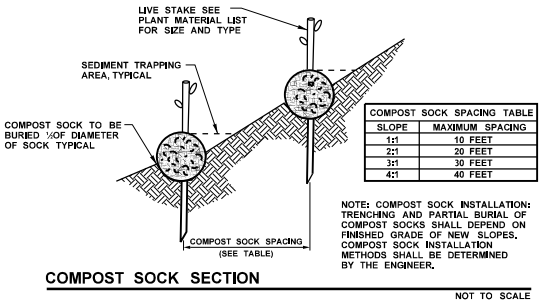
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Compost Sock Section
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 | 0
0 | Cell



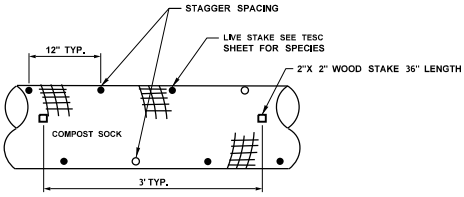
COMPOST SOCK SECTION
NOT TO SCALE

LS Compost Sock Stake Spacing
(SH_DT_Details)
Example drawn at 50% actual size.

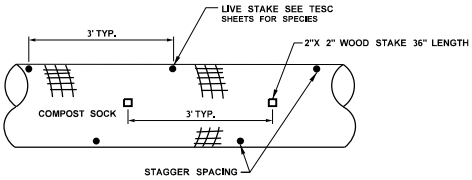
Header1	Header2
Text Size = 0.12	Text Size = 0.
Font = arialbd / 217	Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell



LIVE STAKE MIX B



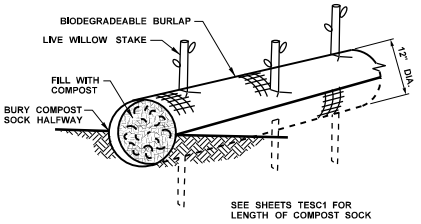
LIVE STAKE MIX A

LIVE STAKE SPACING IN COMPOST SOCK
NOT TO SCALE

LS Compost Sock With Live Stake
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 | 0
0 | Cell



COMPOST SOCK WITH LIVE STAKES
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

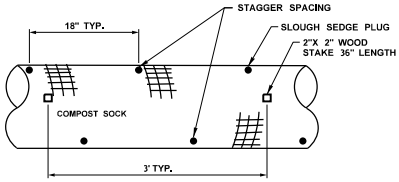
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Compost Sock with Stakes and Sedges (SH_DT_Details) Example drawn at 50% actual size.	0 / 0 / 0 / Cell	

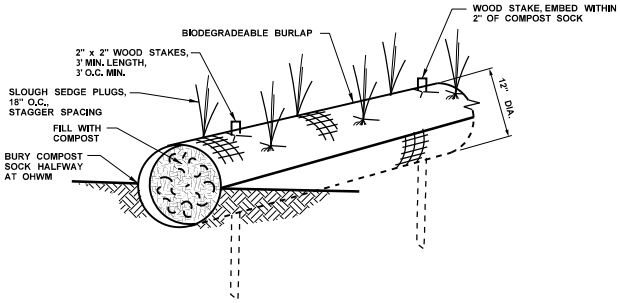
Header1
Text Size = 0.12
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217



PLAN VIEW



COMPOST SOCK WITH WOOD STAKES AND SEDGE PLUGS

NOT TO SCALE

S5.05 Standard Symbols (cont.)

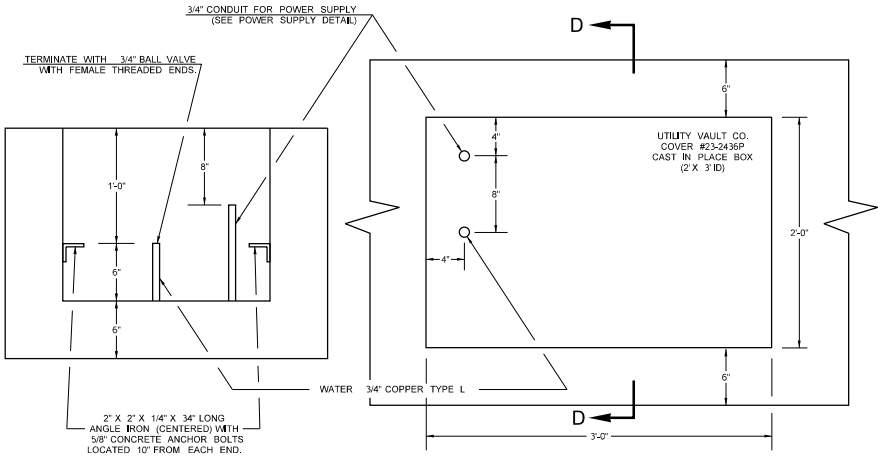
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

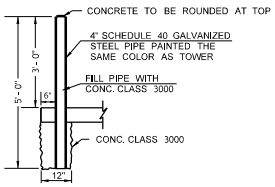
SH DT Sheet Items - Details Cells

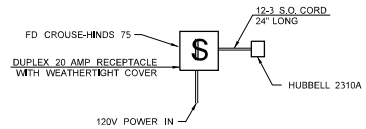
Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Control Module Box Detail
(SH_DT_Details)
Example drawn at 50% actual size.
Text Size = 0.07
Font = arialbd / 217

0 0
0 Cell



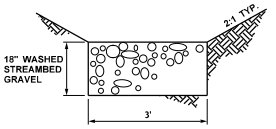




LS Ditch Section Typical
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 0
0 Cell



TYPICAL DITCH SECTION
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

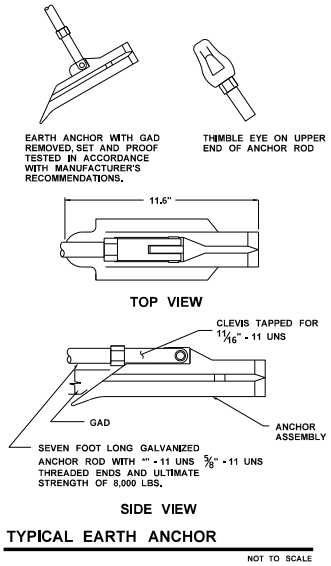
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Earth Anchor
(SH_DT_Details)
Example drawn at 50% actual size.

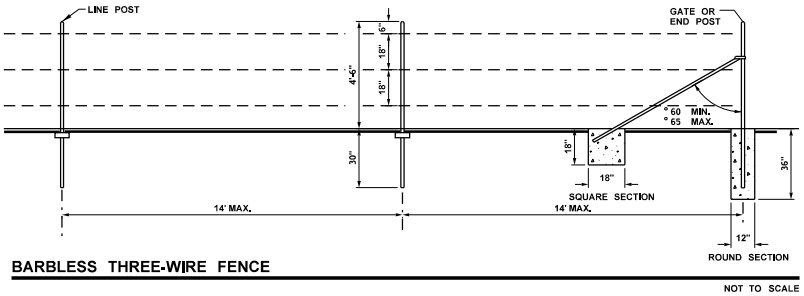
Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



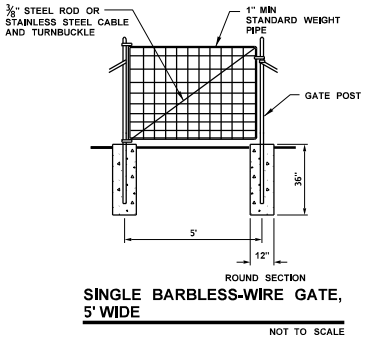
LS Fence Barbless 3 Wire
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



LS Gate Barbless Wire 5
(SH_DT_Details)
Example drawn at 50% actual size.

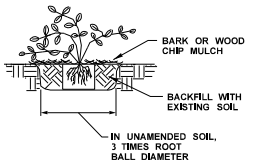
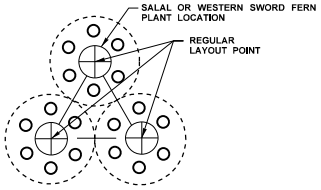
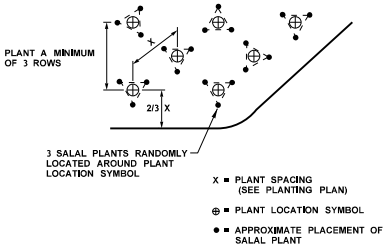
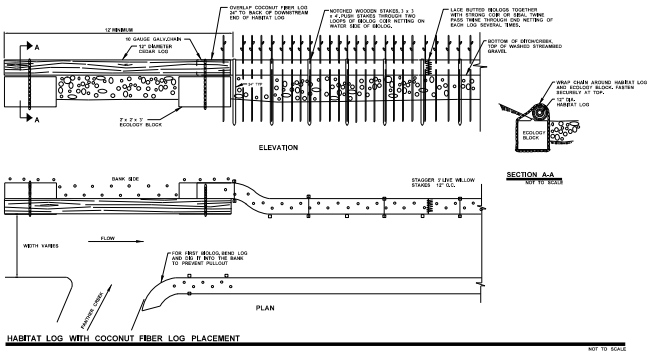
Header1	Body2	0 / 0
Text SIze = 0.12	Text SIze = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
LS Ground Cover (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 GROUNDCOVER PLANTING NOT TO SCALE
LS Ground Cover Layout 1 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 GROUNDCOVER PLANT LAYOUT WITHIN SHRUB/TREE MIX NOT TO SCALE
LS Ground Cover Layout2 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 SALAL PLANT LAYOUT NOT TO SCALE
LS Habitat Log With Coconut Fiber (SH_DT_Details) Example drawn at 25% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

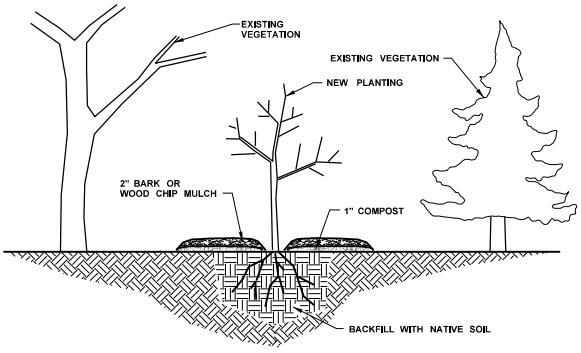
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Interplanting
(SH_DT_Details)
Example drawn at 50% actual size.

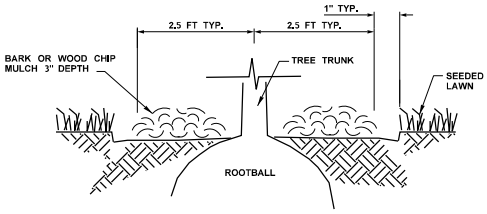
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



INTERPLANTING DETAIL
NOT TO SCALE

LS Lawn Edging
(SH_DT_Details)
Example drawn at 50% actual size.

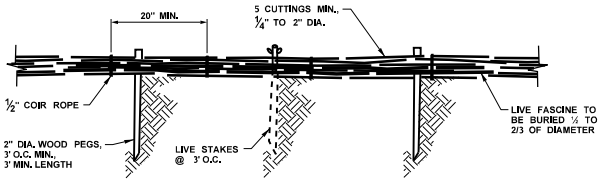
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



LAWN EDGING
NOT TO SCALE

LS Live Fascine Elevation
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

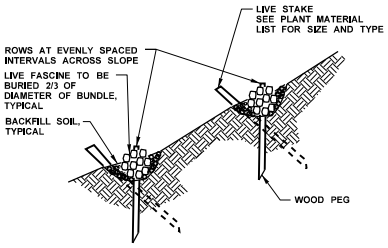
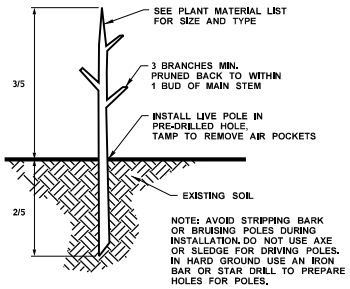
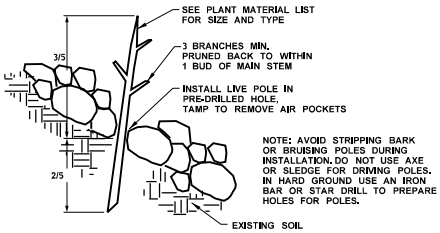


LIVE FASCINE
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Live Fascine Section (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	
LS Live Pole Installation (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	
LS Live Pole Installation Riprap (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Header1 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	

S5.05 Standard Symbols (cont.)

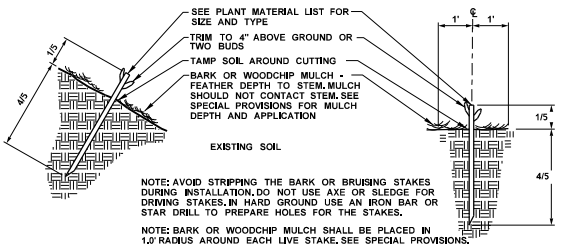
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Live Stake Flat and Slope
(SH_DT_Details)
Example drawn at 50% actual size.

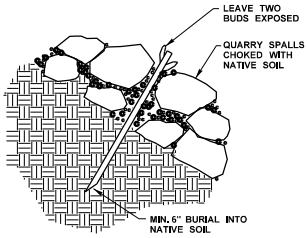
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



LIVE STAKE INSTALLATION
NOT TO SCALE

LS Live Stake In Quarry Spalls
(SH_DT_Details)
Example drawn at 50% actual size.

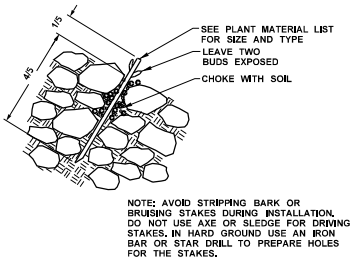
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



LIVE STAKE IN QUARRY SPALLS
NOT TO SCALE

LS Live Stake In Riprap 1
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

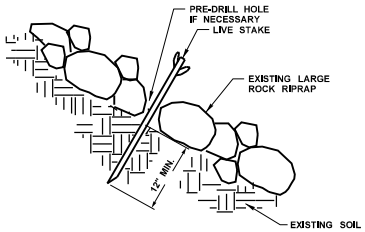
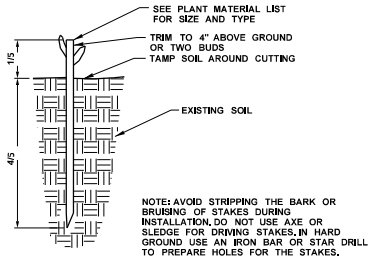
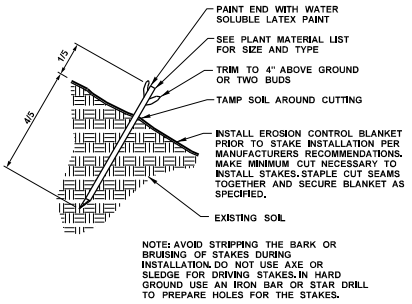


LIVE STAKE INSTALLATION
IN RIPRAP
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Live Stake In Riprap 2 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 LIVE STAKE INSTALLATION IN RIPRAP NOT TO SCALE
LS Live Stake Installation (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 LIVE STAKE INSTALLATION NOT TO SCALE
LS Live Stake Installation On Slope (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 LIVE STAKE INSTALLATION ON SLOPES NOT TO SCALE

S5.05 Standard Symbols (cont.)

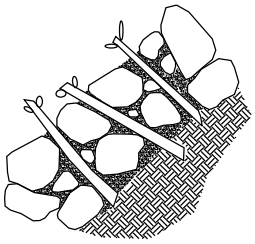
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Live Stake Planting
(SH_DT_Details)
Example drawn at 50% actual size.

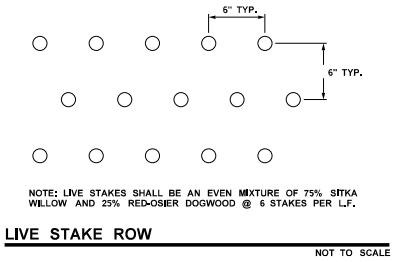
0 | 0
0 | Cell



LS Live Stake Rows 1
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

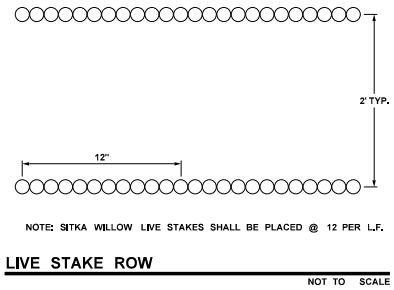
0 | 0
0 | Cell



LS Live Stake Rows 2
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 | 0
0 | Cell



S5.05 Standard Symbols (cont.)

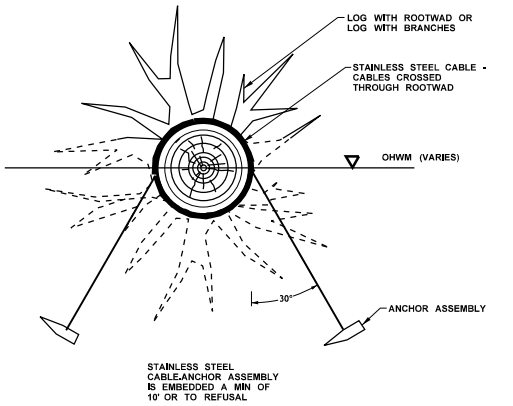
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Log Anchoring
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

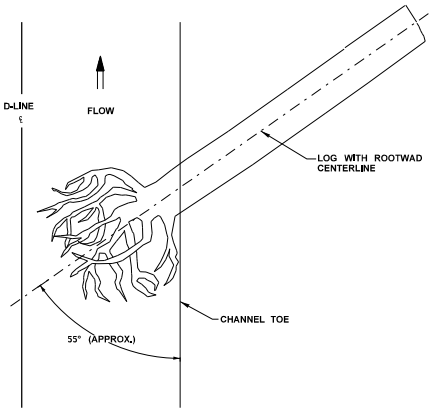


LOG WITH ROOTWAD AND LOG WITH BRANCHES ANCHORING

NOT TO SCALE

LS Log With Rootwad
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



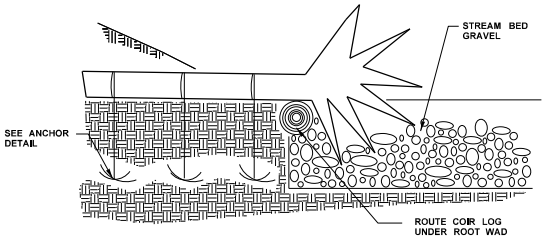
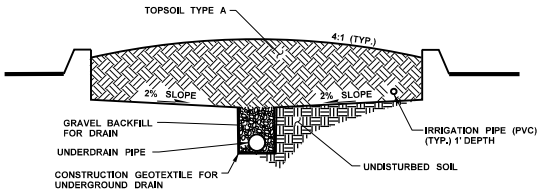
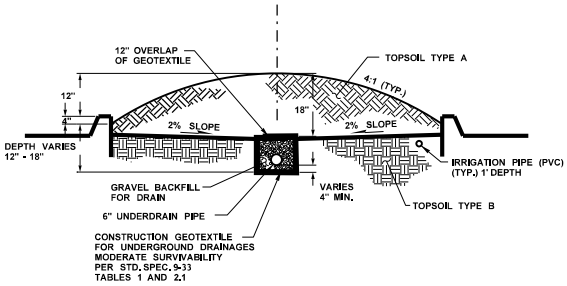
LOG WITH ROOTWAD PLACEMENT, PLAN VIEW

NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Log With Rootwad Stream Section (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	 STREAM SECTION AT ROOT WAD NOT TO SCALE
LS Median Drainage 1 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	 DRAINAGE FOR MEDIAN SECTION NOT TO SCALE
LS Median Drainage 2 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217; Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 / 0 / Cell	 DRAINAGE FOR MEDIAN SECTION NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

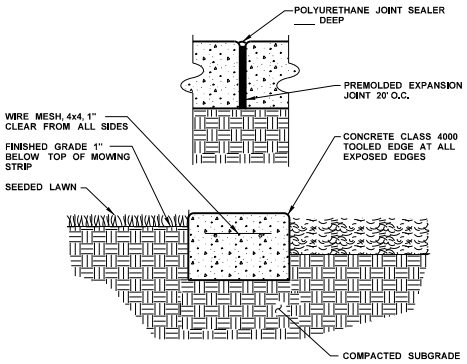
Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

LS Mowing Strip

(SH_DT_Details)

Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



MOWING STRIP DETAIL

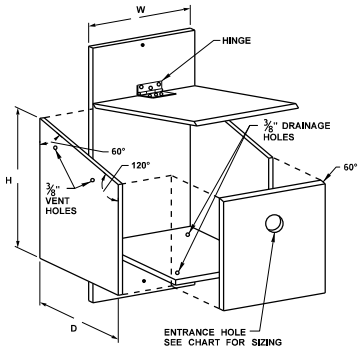
NOT TO SCALE

LS Nest Box

(SH_DT_Details)

Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



NOTES:
1. MOUNT EACH NEST BOX ON CEDAR 4X4 AT THE HEIGHT INDICATED IN THE TABLE FROM GROUND, WHERE IT WILL RECEIVE SHADE AT LEAST PART OF THE DAY, FACING AWAY FROM THE PREVAILING WINDS.
2. ATTACH BOX TO POST USING 2½" MIN. WOOD SCREWS
3. USE 1" UNTREATED ROUGH CUT CEDAR AND GALVANIZED NAILS
4. FASTEN TOP TO FACE WITH SPRING-LOADED HOOK AND EYE OR APPROVED EQUAL

BIRDHOUSE SIZING / ENTRANCE HOLE SIZES

BIRD TYPE	HOLE SIZE (ROUND OR OVAL)	HEIGHT ABOVE FLOOR	BOX SIZE W X D X H	HEIGHT ABOVE GROUND
BARN SWALLOW	1 OPEN SIDE	N/A	6"X6"X6"	8' - 12'
CHICKADEE	1⅛" DIA.	6"	4"X4"X8"	6' - 15'
DOWNY WOODPECKER	1¼" DIA.	6"	4"X4"X10"	6' - 20'
FLICKER	2½" DIA.	18"	7"X7"X24"	6' - 20'
FLYCATCHER	2" DIA.	6"	6"X6"X8"	8' - 20'
HOODED MERGANSER	3"H X 4"W	19"	11"X9"X24"	20' - 30'
KESTREL	3" DIA.	12"	9"X9"X12"	10' - 30'
NUTHATCH	1¼" DIA.	6"	4"X4"X8"	12' - 20'
PILEATED WOODPECKER	4" DIA.	21"	10"X10"X24"	10' - 30'
SCREECH OWL	3" DIA.	12"	9"X9"X12"	10' - 30'
WESTERN BLUEBIRD	1½" DIA.	6"	6½"X9"X12"	5' - 10'
WOOD DUCK	3"H X 4"W	19"	11"X9"X24"	20' - 30'
WREN	1⅛" DIA.	6"	4"X4"X8"	6' - 10'

NEST BOX

NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

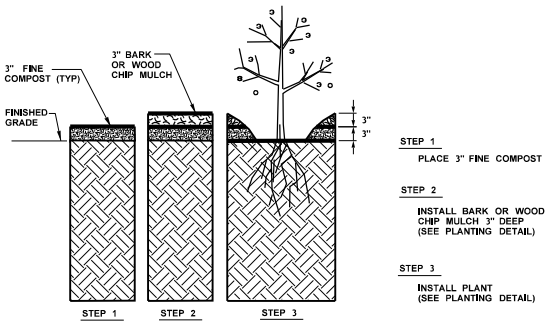
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example

LS Plant After Bark No SA
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	0 | 0
Text Size = 0.12	Text Size = 0.1	0 | Cell
Font = arialbd / 217	Font = arialbd / 217	

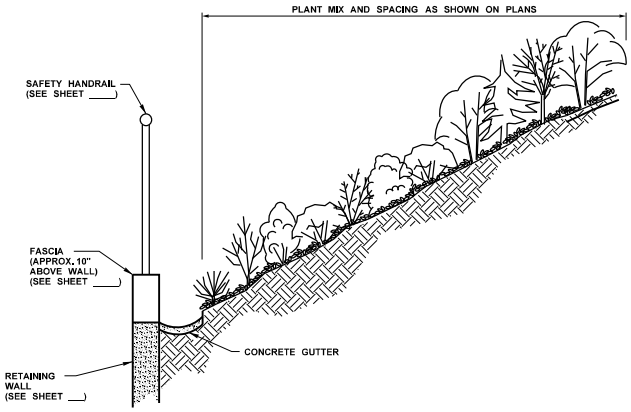
Body2
Text Size = 0.07
Font = arialbd / 217



PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK
SECTION VIEW
NOT TO SCALE

LS Plant Area Above Ret Wall
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 | 0
Text Size = 0.12	Text Size = 0.07	0 | Cell
Font = arialbd / 217	Font = arialbd / 217	



TYPICAL PLANTING/SETBACK ABOVE RETAINING WALL
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

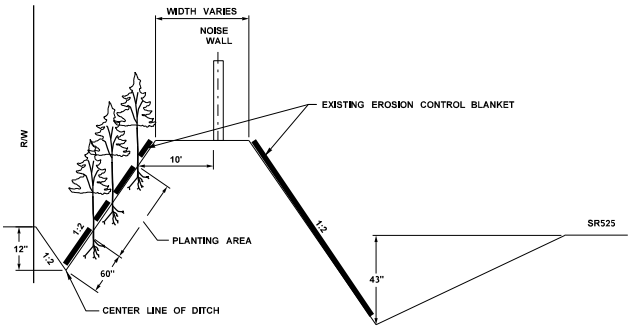
Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

LS Plant Area Back Berm
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell



TYPICAL PLANTING AREA FOR BACK OF BERM SECTION
NOT TO SCALE

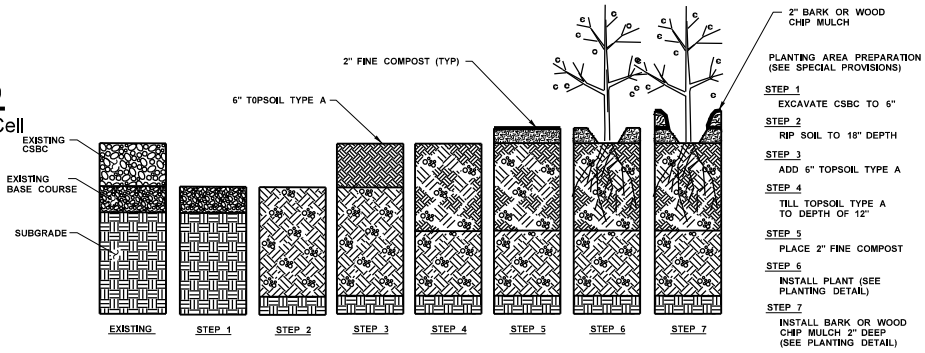
LS Plant Area Soil Prep In Former Rd
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell



SOIL PREPARATION IN FORMER ROADWAY - SEQUENCE OF WORK
SECTION VIEW
NOT TO SCALE

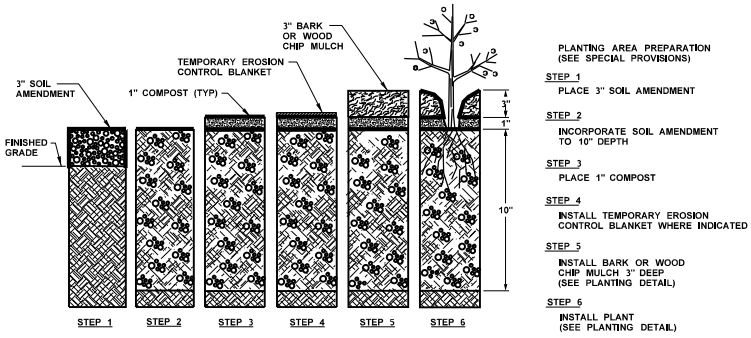
LS Plant Area With Erosion Blanket
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell



PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK
SECTION VIEW
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

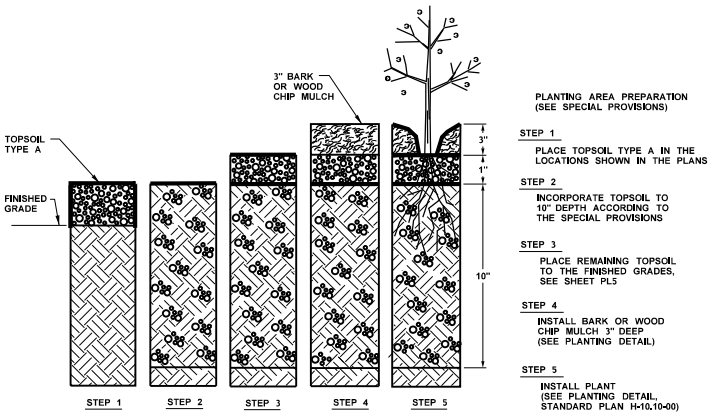
LS Plant Area With Top Soil
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

0 / 0
0 / Cell

Body2
Text Size = 0.07
Font = arialbd / 217



ROUNDABOUT AND TRAFFIC ISLAND
PLANTING AREA TOPSOIL INSTALLATION - SEQUENCE OF WORK
SECTION VIEW NOT TO SCALE

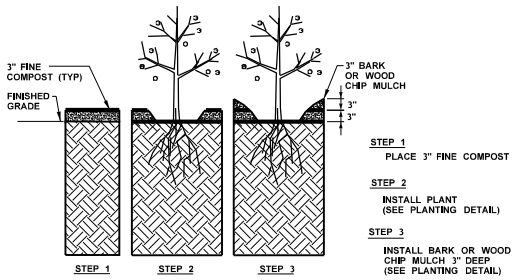
LS Plant Before Bark No SA
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

0 / 0
0 / Cell

Body2
Text Size = 0.07
Font = arialbd / 217



PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK
SECTION VIEW NOT TO SCALE

S5.05 Standard Symbols (cont.)

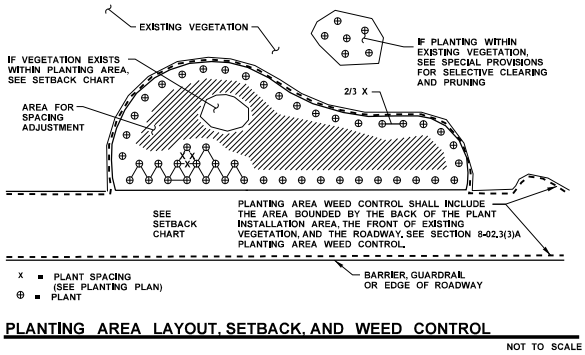
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

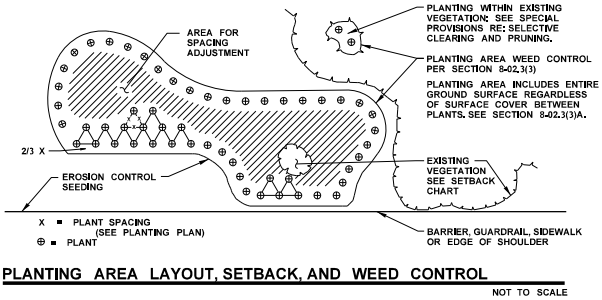
LS Plant Layout 1
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



LS Plant Layout 2
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



LS Plant Material List
(SH_DT_Details)
Example drawn at 50% actual size.

Header2	Body2	0 / 0
Text Size = 0.1	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	ROOT CONDITION	REMARKS
TREES	TREES				
BIGLEAF MAPLE	ACER MACROPHYLLUM		18 IN. HT.	NO. 1 CONT.	
DOUGLAS FIR	PSEUDOTSUGA MENZIESII		18 IN.HT.	NO. 2 CONT.	WELL-BRANCHED, NO SHEARED TREES
WESTERN RED CEDAR	THUJA PLICATA		18 IN.HT.	NO. 2 CONT.	
SHRUBS	SHRUBS				
OCEANSPRAY	HOLODISCUS DISCOLOR			NO. 1 CONT.	
SCOULER'S WILLOW	SALIX SCOULERIANA			NO. 1 CONT.	
VINE MAPLE	ACER CIRCINATUM			NO. 1 CONT.	
EMERGENTS	EMERGENTS				
SLOUGH SEDGE	CAREX OBNUPTA			BARE ROOT	ONE OR MORE GROWTH POINTS
SMALL-FRUITED BULRUSH	SCIRPUS MICROCARPUS			BARE ROOT	ONE OR MORE GROWTH POINTS
LIVE STAKES	LIVE STAKES				
RED-OSIER DOGWOOD	CORNUS SERICEA			LIVE STAKE	
SCOULER'S WILLOW	SALIX SCOULERIANA			LIVE STAKE	

NOTES:
1. IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.
2. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK.
4. PLANTS SHALL BE RANDOMLY MIXED THROUGHOUT EACH PLANTING ZONE AS APPROVED BY THE ENGINEER. SEE SCHEDULE FOR MIN. GROUPINGS OF EACH SPECIES.
5. ALL TREES REQUIRING STAKING SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING.
6. ALL TREE/SHRUB PLANTINGS SHALL BE SETBACK A MIN. OF 5 FEET FROM ALL PAVEMENT EDGES, EXCEPT WHERE NOTED. (SEE SETBACK CHART)

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

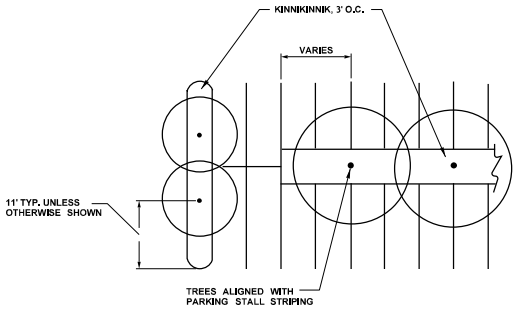
LS Plant Spacing Island

(SH_DT_Details)

Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



PLAN

ISLAND PLANTING SPACING, TYP.

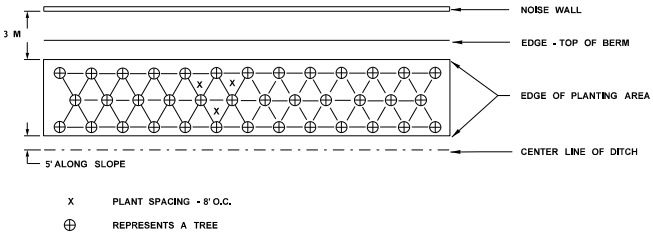
NOT TO SCALE

LS Plant Spacing Rectangular

(SH_DT_Details)

Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



TYPICAL PLANT SPACING

NOT TO SCALE

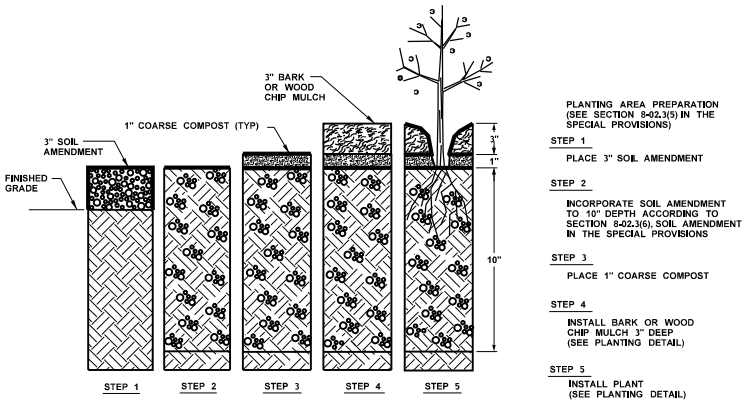
LS Planting Area Soil Prep 1

(SH_DT_Details)

Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

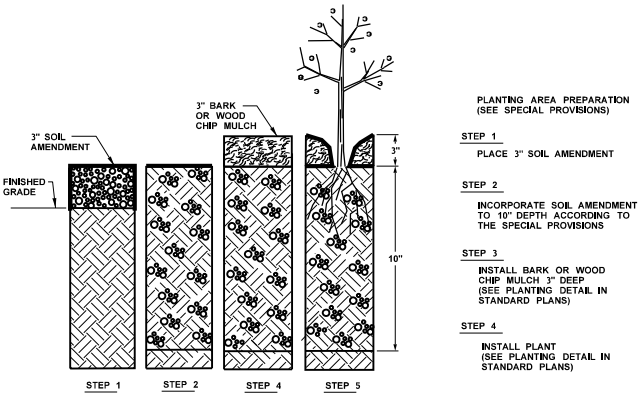
Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Planting Area Soil Prep 2 (SH_DT_Details)	0 / 0 / 0 / Cell	
LS Planting Boston Ivy (SH_DT_Details)	0 / 0 / 0 / Cell	
LS Planting Emergent Pond (SH_DT_Details)	0 / 0 / 0 / Cell	

LS Planting Area Soil Prep 2
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

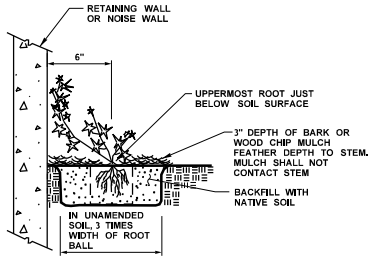


PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK
SECTION VIEW
NOT TO SCALE

LS Planting Boston Ivy
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

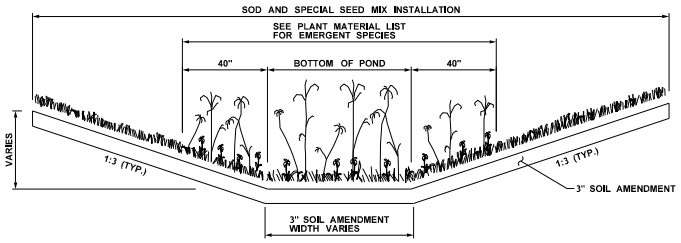


TYPICAL BOSTON IVY PLANTING
NOT TO SCALE

LS Planting Emergent Pond
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.12
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217



EMERGENT PLANTED CELL / WET POND SECTION
NOT TO SCALE

S5.05 Standard Symbols (cont.)

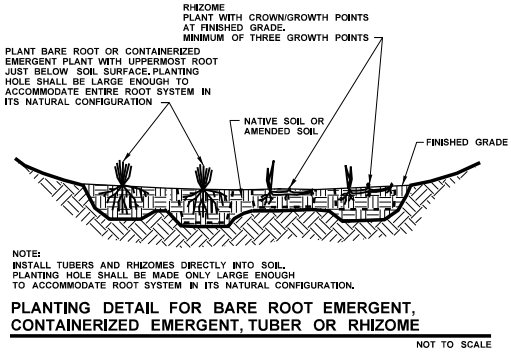
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Planting Emergent Tuber Rhizome
(SH_DT_Details)
Example drawn at 50% actual size.

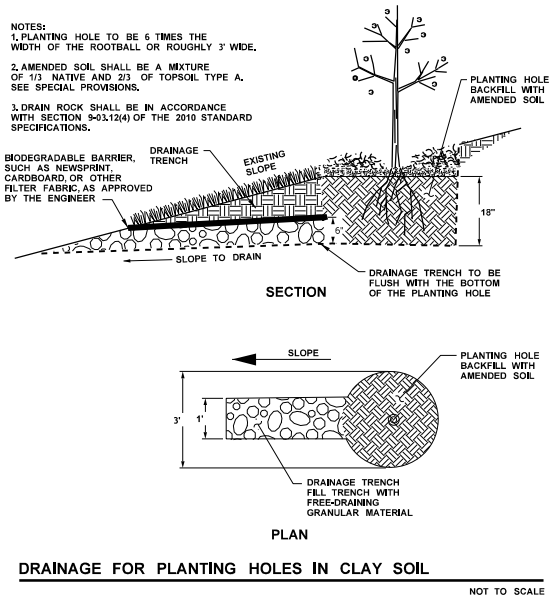
Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



LS Planting Hole With Drainage
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



S5.05 Standard Symbols (cont.)

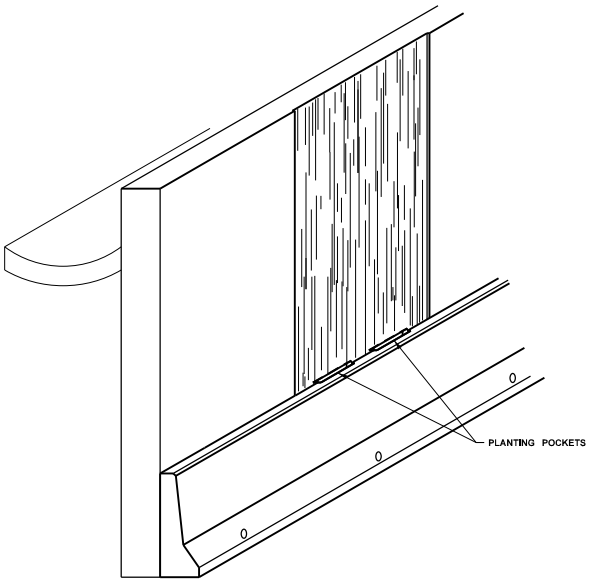
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Planting Pocket
(SH_DT_Details)
Example drawn at 50% actual size.
Text Size = 0.07
Font = arialbd / 217

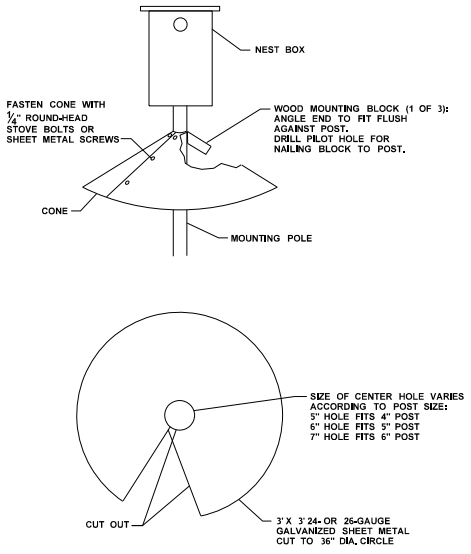
0 | 0
0 | Cell



LS Predator Guard For Nest Box
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 | 0
0 | Cell



PREDATOR GUARD FOR NEST BOX
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

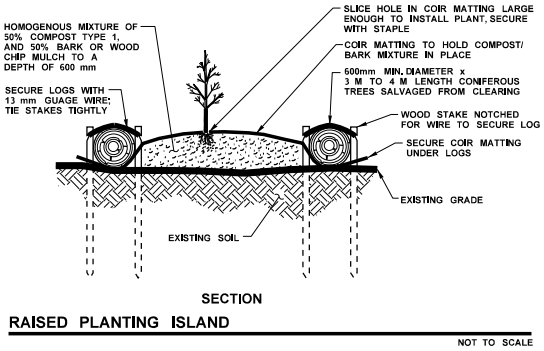
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Raised Planting 1
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217

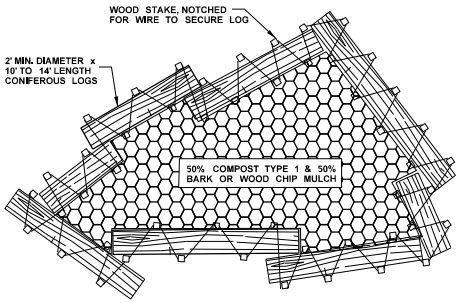


RAISED PLANTING ISLAND
NOT TO SCALE

LS Raised Planting 2
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text SIze = 0.12	Text SIze = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



PLAN VIEW

NOTE:
1. NUMBER OF LOGS VARIES.
2. EACH LOG SHALL BE A MINIMUM OF 3 METERS LONG
3. EACH ASSEMBLY SHALL BE THE ENTIRE NUMBER OF LOGS AND OTHER MATERIALS TO CREATE ONE PLANTING ISLAND.

RAISED PLANTING ISLAND
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

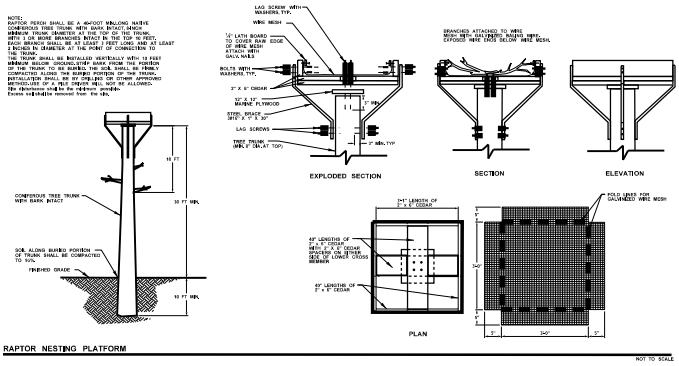
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example

LS Raptor Nesting Platform
(SH_DT_Details)
Example drawn at 25% actual size.

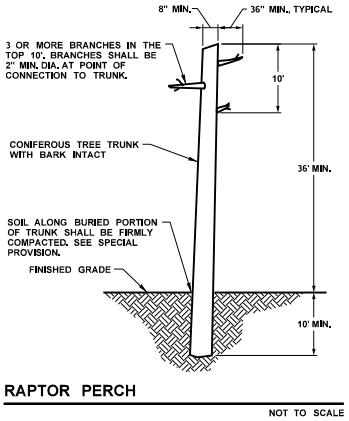
Header1	Header2	0 | 0
Text Size = 0.12	Text Size = 0.1	0 | Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



LS Raptor Perch
(SH_DT_Details)
Example drawn at 50% actual size.

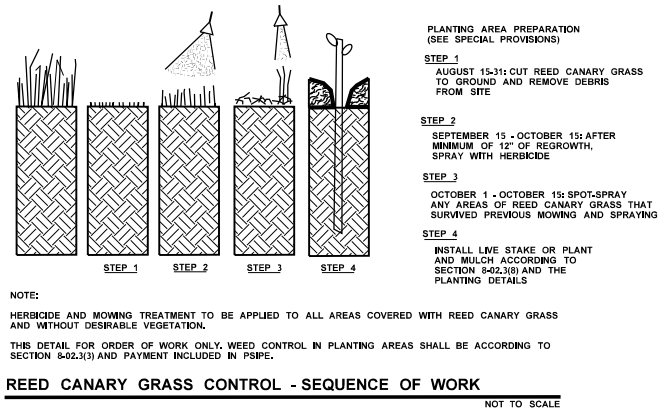
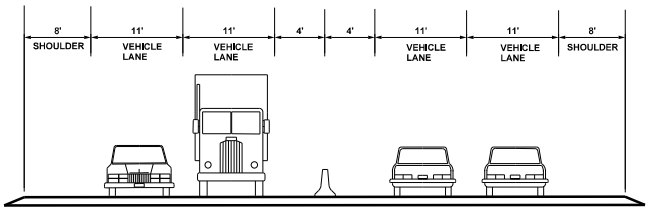
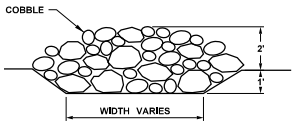
Header1	Body2	0 | 0
Text Size = 0.12	Text Size = 0.07	0 | Cell
Font = arialbd / 217	Font = arialbd / 217	



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
LS Reed Canary Grass Control (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
LS Roadway Section (SH_DT_Details) Example drawn at 50% actual size. Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
LS Rock Pile (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

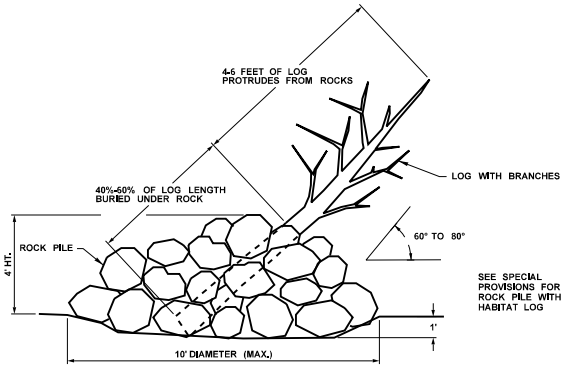
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Rock Pile With Habitat Log
(SH_DT_Details)
Example drawn at 50% actual size.
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell

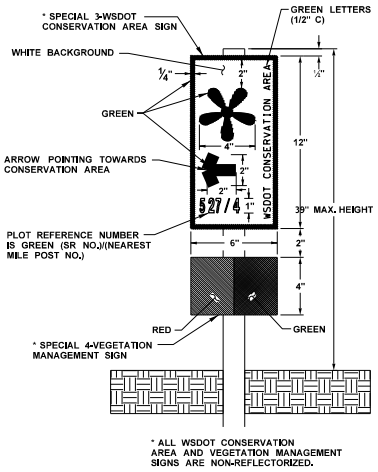


ROCK PILE WITH HABITAT LOG
NOT TO SCALE

LS Sign Conservation Area Left
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body1
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 | 0
0 | Cell



CONSERVATION AREA SIGN
NO SCALE

S5.05 Standard Symbols (cont.)

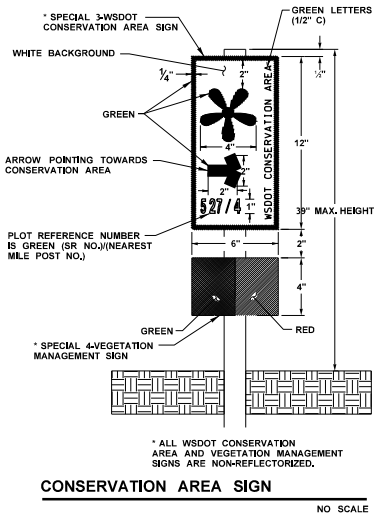
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

LS Sign Conservation Area Right
(SH_DT_Details)
Example drawn at 50% actual size.

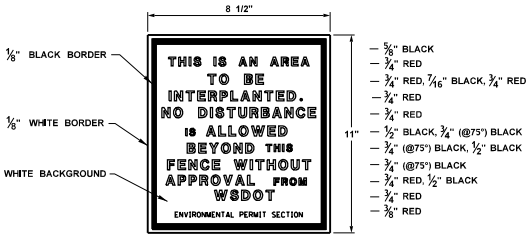
Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



CONSERVATION AREA SIGN
NO SCALE

LS Sign Interplanting
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



NOTE:
SEE SPECIAL PROVISIONS FOR SIGN SPACING.

SENSITIVE AREA SIGN
NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

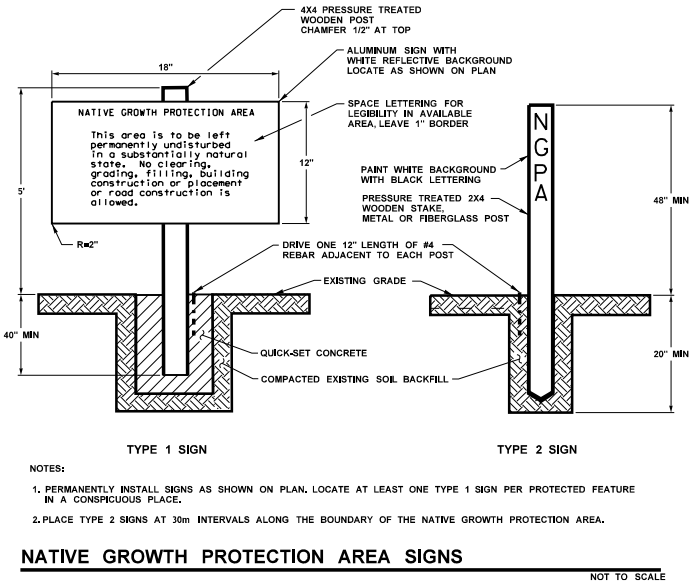
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Sign Native Growth Protect Area
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



NOTES:

1. PERMANENTLY INSTALL SIGNS AS SHOWN ON PLAN. LOCATE AT LEAST ONE TYPE 1 SIGN PER PROTECTED FEATURE IN A CONSPICUOUS PLACE.
2. PLACE TYPE 2 SIGNS AT 30m INTERVALS ALONG THE BOUNDARY OF THE NATIVE GROWTH PROTECTION AREA.

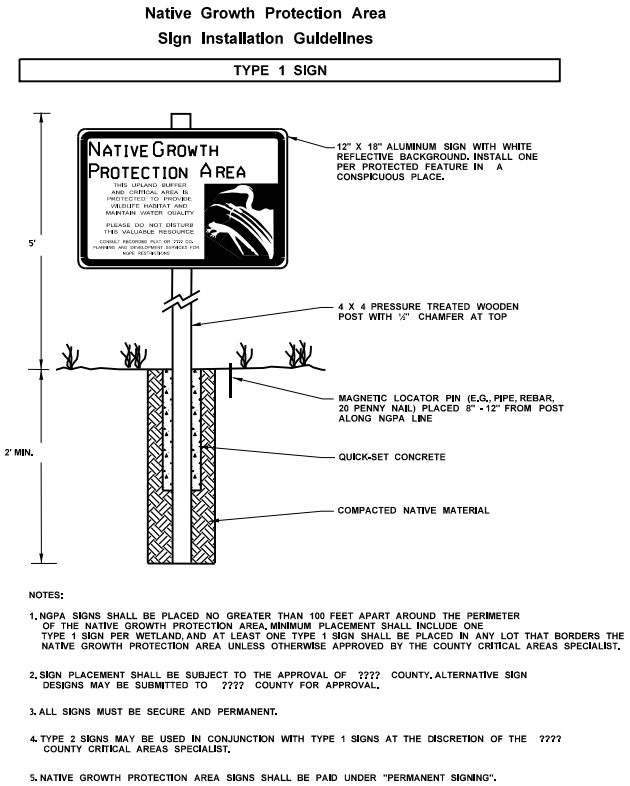
NATIVE GROWTH PROTECTION AREA SIGNS

NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Sign NGPA 1 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

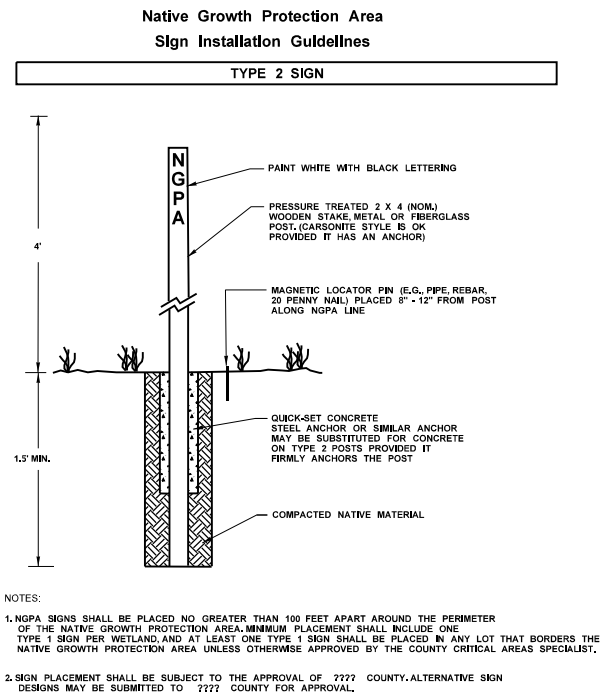
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Sign NGPA 2
(SH_DT_Details)
Example drawn at 50% actual size.

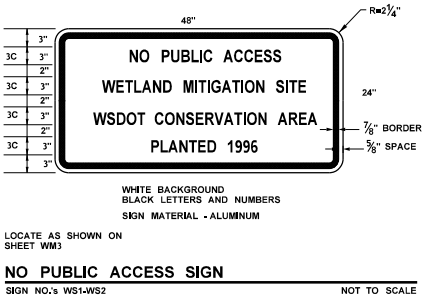
Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



LS Sign No Public Access
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

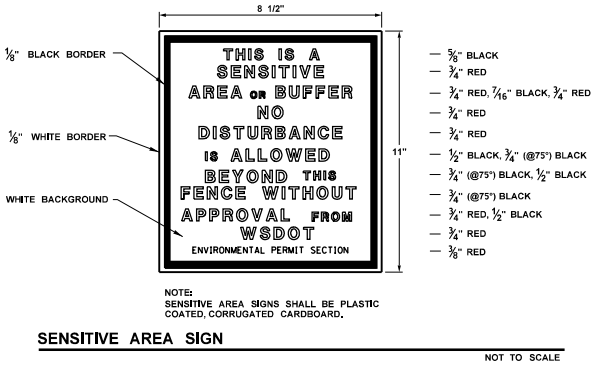
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Sign Sesitive AreaOrBuffer
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217

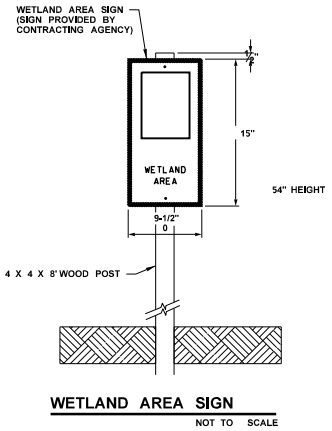
0 | 0
0 | Cell



LS Sign Wetland Area
(SH_DT_Details)
Example drawn at 50% actual size.

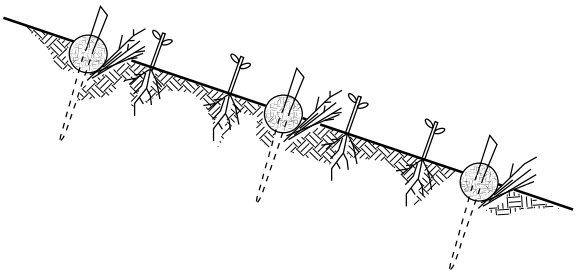
Header1	Body2
Text SIze = 0.12	Text SIze = 0.07
Font = arialbd / 217	Font = arialbd / 217

0 | 0
0 | Cell



LS Slope Treatment
(SH_DT_Details)
Example drawn at 50% actual size.

0 | 0
0 | Cell



S5.05 Standard Symbols (cont.)

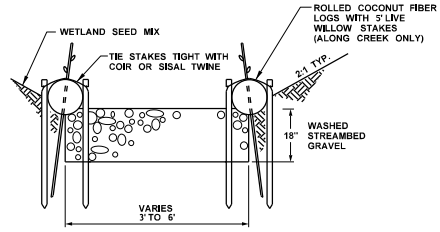
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Stream Section Typical
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

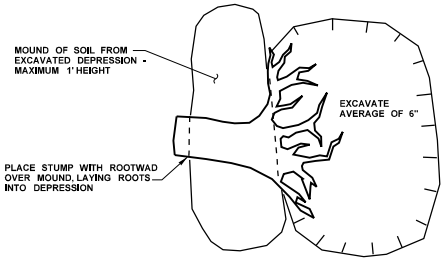


TYPICAL STREAM SECTION
NOT TO SCALE

LS Stump Depression Planting
(SH_DT_Details)
Example drawn at 50% actual size.

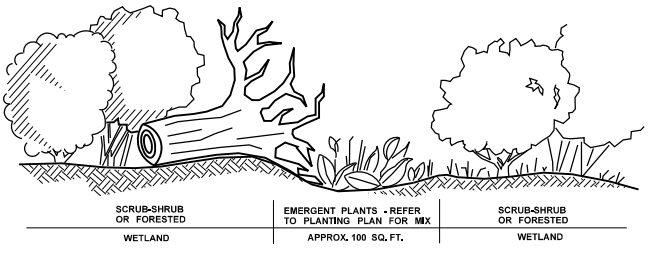
Header1	Header2	0 / 0
Text Size = 0.12	Text Size = 0.1	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

Body2
Text Size = 0.07
Font = arialbd / 217



PLAN

NOTES:
1. DEPRESSION SHALL BE NO MORE THAN 8" DEEP AT DEEPEST POINT.
2. MOUND UNDER STUMP SHALL BE NO MORE THAN 12" IN HEIGHT.
3. TOTAL SIZE OF DEPRESSION SHALL BE 100 SQUARE FEET OR LESS.



ELEVATION

TYPICAL STUMP DEPRESSION PLANTING DETAIL
NOT TO SCALE

S5.05 Standard Symbols (cont.)

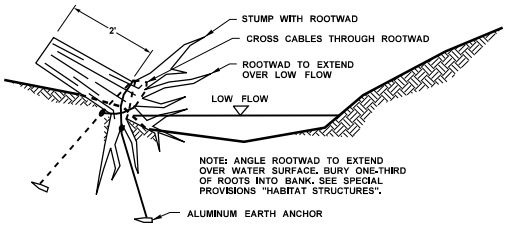
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Stump With Rootwad Anchoring
(SH_DT_Details)
Example drawn at 50% actual size.

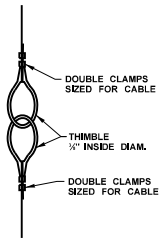
Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



STUMP WITH ROOTWAD ANCHORING
NOT TO SCALE

LS Thimble Cable Attach
(SH_DT_Details)
Example drawn at 50% actual size.

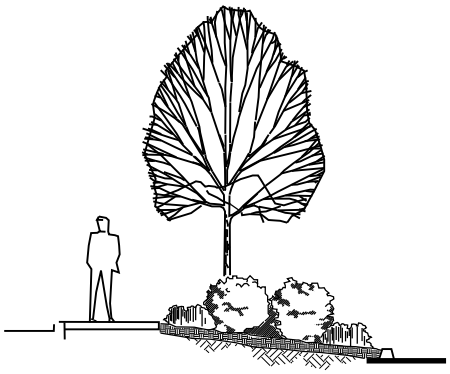
Header1	Body2	0 / 0
Text Size = 0.12	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



THIMBLE DETAIL
NOT TO SCALE

LS Tree Elev
(SH_DT_Details)
Example drawn at 50% actual size.

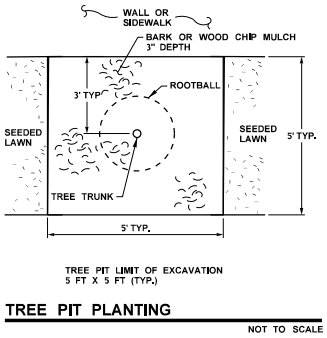
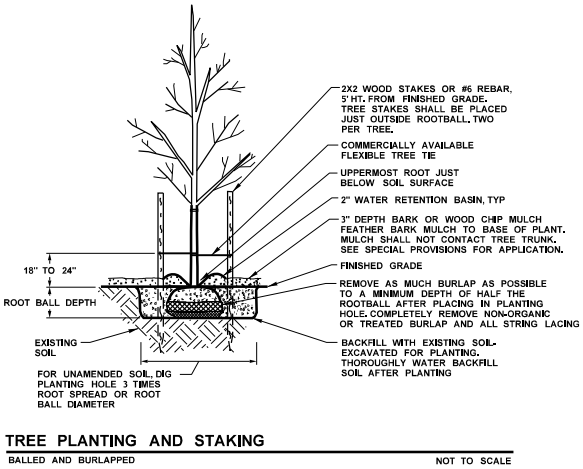
0 / 0
0 / Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
LS Tree Pit Planting (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
LS Tree Planting And Staking A (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

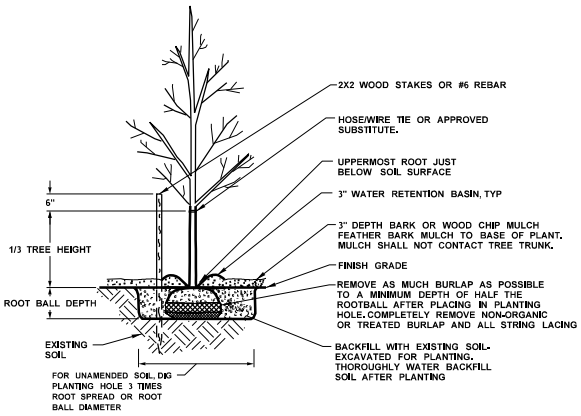
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

LS Tree Planting And Staking B
(SH_DT_Details)
Example drawn at 50% actual size.

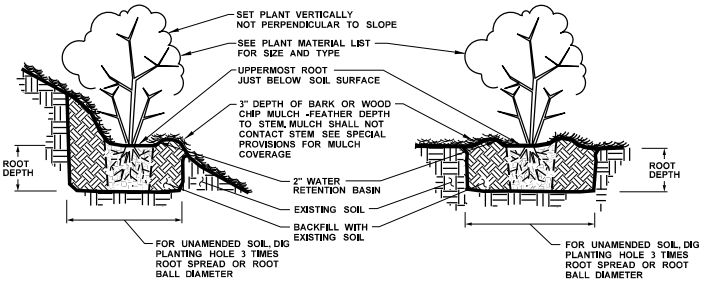
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



TREE PLANTING AND STAKING
BALLED AND BURLAPPED NOT TO SCALE

LS Tree Shrub Planting A
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

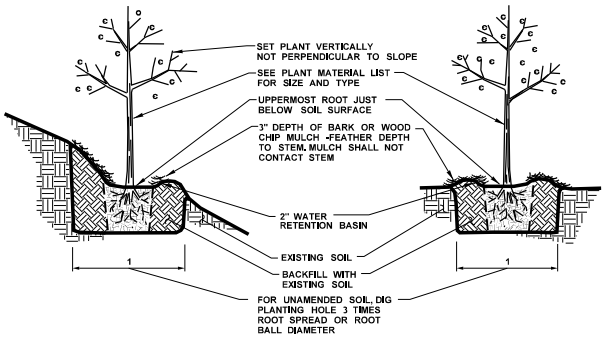


TREE & SHRUB PLANTING ON SLOPE
BARE ROOT AND CONTAINER NOT TO SCALE

TREE & SHRUB PLANTING
BARE ROOT AND CONTAINER NOT TO SCALE

LS Tree Shrub Planting B
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



*NOTE: BARK OR WOOD CHIP MULCH SHALL BE PLACED IN 12" RADIUS AROUND EACH PLANT.

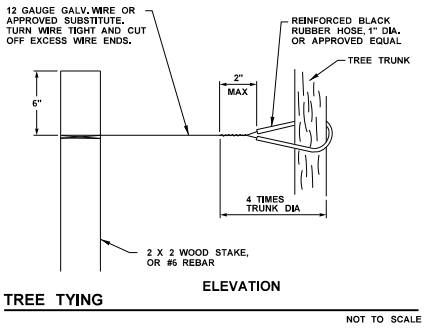
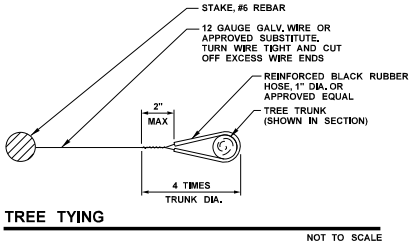
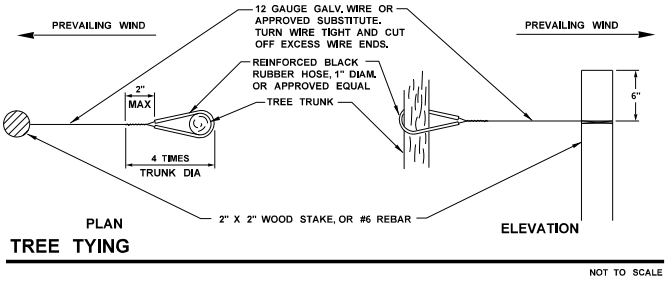
TREE & SHRUB PLANTING ON SLOPE
BARE ROOT AND CONTAINER NOT TO SCALE

TREE & SHRUB PLANTING
BARE ROOT AND CONTAINER NOT TO SCALE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

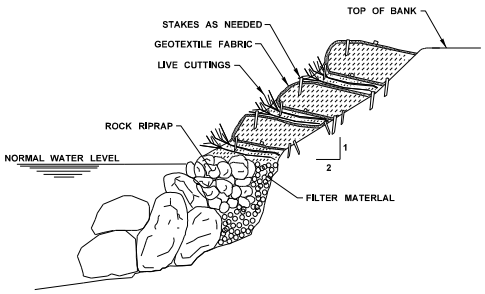
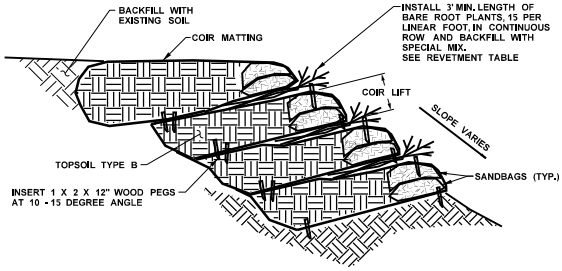
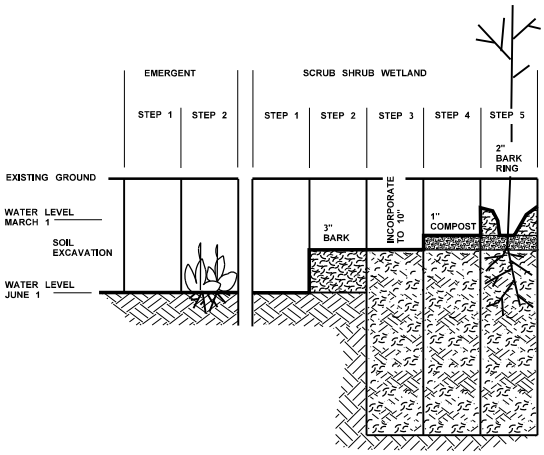
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Tree Tying Elev (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
LS Tree Tying Plan (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
LS Tree Tying Plan And Elev (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Header2 Text Size = 0.1 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
LS Vegetated Revetment 1 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 VEGETATED REVETMENT NOT TO SCALE
LS Vegetated Revetment 2 (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 VEGETATED REVETMENT NOT TO SCALE
LS Wetland Creation (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 WETLAND CREATION - SEQUENCE OF WORK NOT TO SCALE

S5.05 Standard Symbols (cont.)

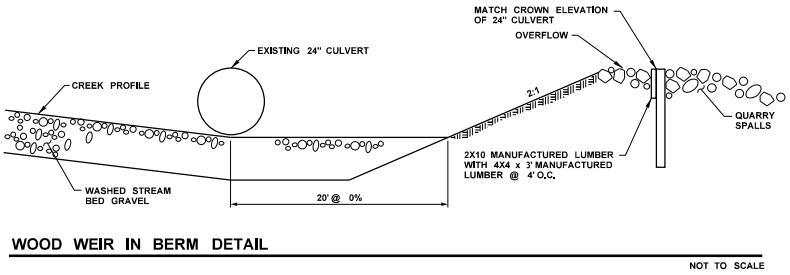
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
LS Wood Weir In Berm (SH_DT_Details)	0 / 0 / 0 / Cell	

Example drawn at 50% actual size.

Header1	Body2
Text Size = 0.12	Text Size = 0.07
Font = arialbd / 217	Font = arialbd / 217



S5.05 Standard Symbols (cont.)

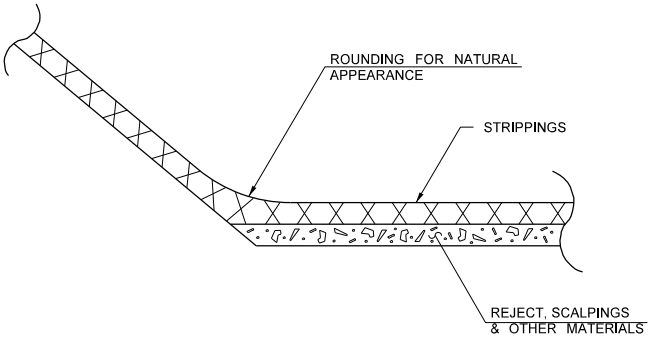
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example

MS Pit or Quarry Floor Detail
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 | 0
Font = arialbd / 200	Font = arialbd / 217	0 | Cell

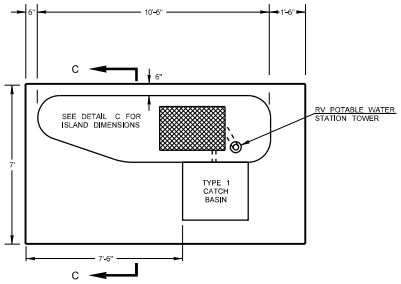


PIT OR QUARRY FLOOR DETAIL

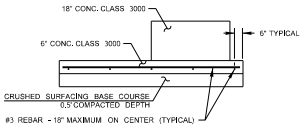
MS Potable H2O Station Plan
(SH_DT_Details)
Example drawn at 40% actual size.

Header1	Header3	
Text Size = 0.12	Text Size = 0.09	0 | 0
Font = arialbd / 217	Font = arialbd / 217	0 | Cell

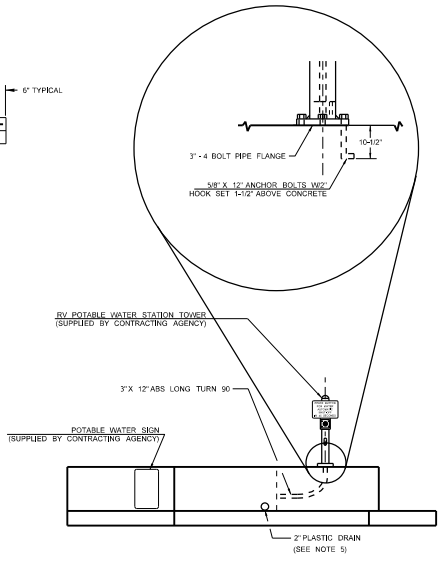
Body2
Text SIze = 0.07
Font = arialbd / 217



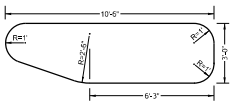
POTABLE WATER STATION PLAN VIEW



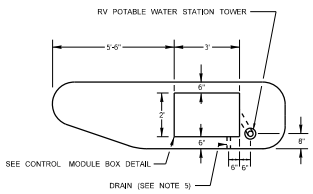
SECTION C-C



POTABLE WATER STATION FRONT ELEVATION



DETAIL C



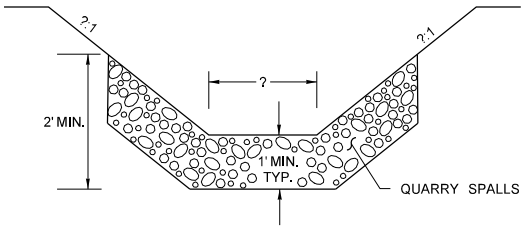
POTABLE WATER STATION ISLAND DETAIL
SEE DETAIL C FOR ISLAND DIMENSIONS.

RV DUMP STATION

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
PP Quarry Spall Section (SH_DT_Details) Example drawn at 75% actual size. Header1 Text Size = 0.12 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	 QUARRY SPALL SECTION

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

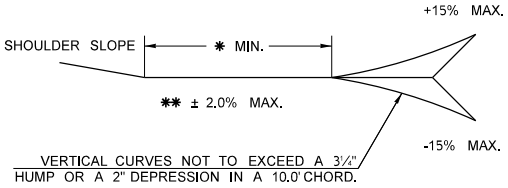
Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

RS Approach Profile With Schedule
(SH_DT_Details)
Example drawn at 75% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



✱✱ DIFFERENCE FROM SHOULDER SLOPE.

APPROACH PROFILE

STA.	LT./RT.	✱

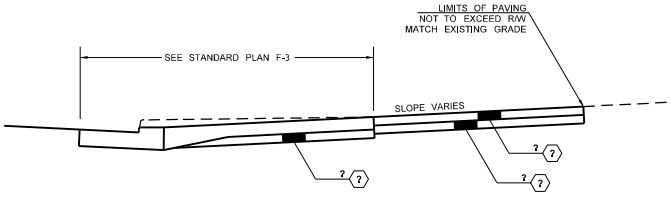
RS Approach Section With Schedule
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



APPROACH DETAIL ?
(SEE STANDARD PLAN)

APPROACH SCHEDULE				
STATION	WIDTH	ASPHALT CONC. APPROACH CL. ? (TON)	CRUSHED SURFACING TOP COURSE (TON)	CEMENT CONC. APPROACH ?-DAY (S.Y.)

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

RS BCTC Paving Section

(SH_DT_Details)

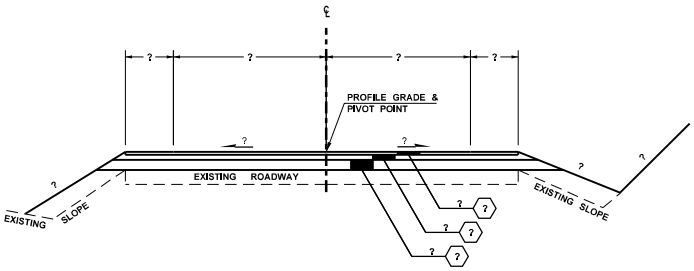
Example drawn at 50% actual size.

0 / 0
0 / Cell

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217



ROADWAY SECTION ?

STA. ? TO STA. ?

RS Bridge Paving

(SH_DT_Details)

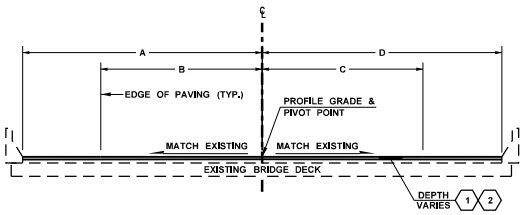
Example drawn at 50% actual size.

0 / 0
0 / Cell

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217



ROADWAY SECTION ?

SEE STRUCTURE PAVING SCHEDULE

STRUCTURE PAVING SCHEDULE

STATION	BRIDGE NUMBER	A	B	C	D	GRADE CONTROL	EXISTING ASPHALT DEPTH*	1 DESIGN REMOVAL		2 PAVING DEPTH*
								PARTIAL/FULL	DEPTH*	
?? TO ??	??/??	?	?	?	?	?	?	?	?	?

* APPROXIMATE DEPTH FOR GRADE CONTROLLED PAVING.
ADJUSTED REMOVAL DEPTH DETERMINED BY PROFILE SURVEY.

RS BST Section

(SH_DT_Details)

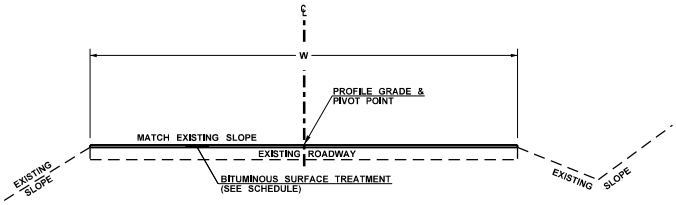
Example drawn at 50% actual size.

0 / 0
0 / Cell

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text SIze = 0.07
Font = arialbd / 217



ROADWAY SECTION ?

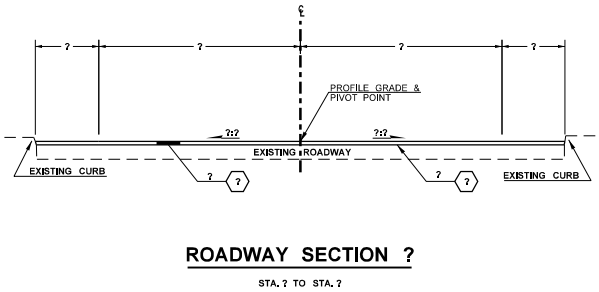
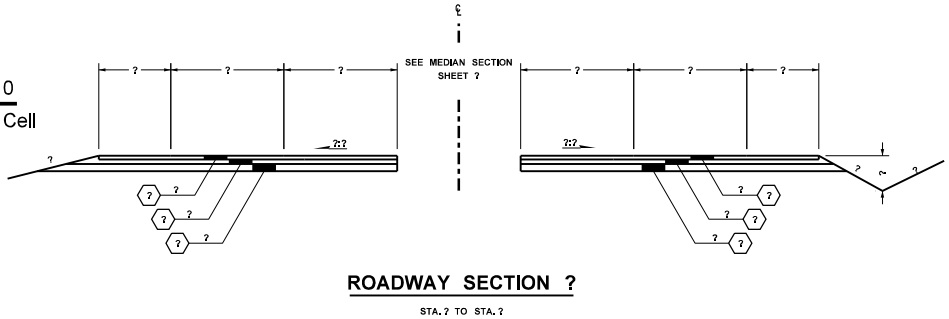
VARIABLE WIDTH BITUMINOUS SURFACE TREATMENT

SECTION	SR	MP	TO	MP	W	CLASS
?	?	?	TO	?	?	?

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
RS Curb Overlay Section (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.15 Font = arialbd / 217 Header2 Text Size = 0.12 Font = arialbd / 217 Body1 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
RS Divided MultiLane Hiway (SH_DT_Details) Example drawn at 50% actual size. Header1 Text Size = 0.15 Font = arialbd / 217 Header2 Text Size = 0.12 Font = arialbd / 217 Body1 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

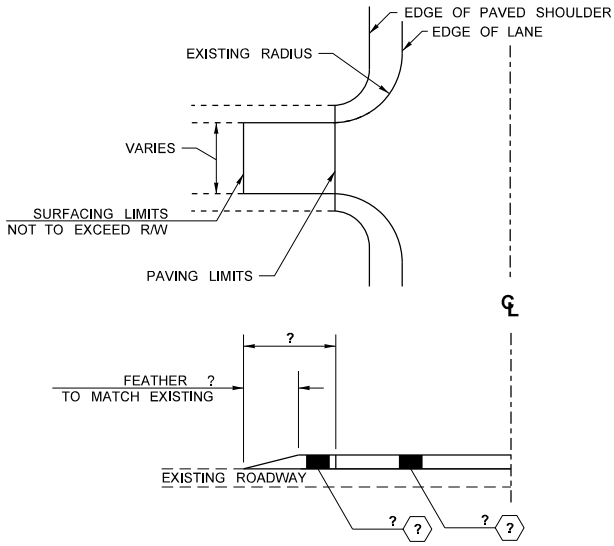
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

RS Intersection Paving
(SH_DT_Details)
Example drawn at 75% actual size.

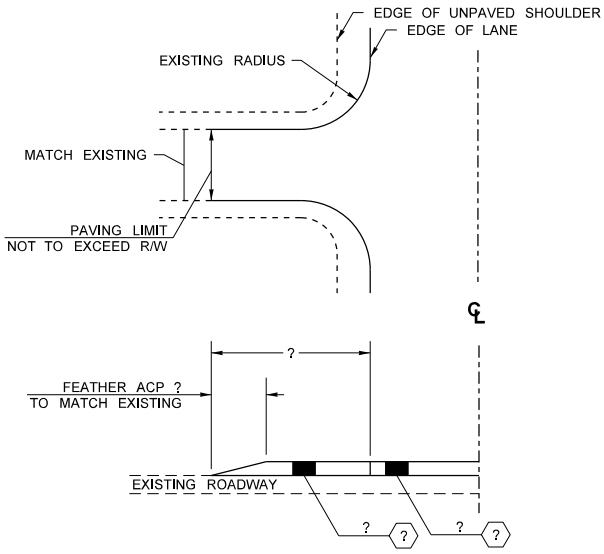
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



INTERSECTION PAVING DETAIL ?

RS Intersection Paving Ex Shoulders
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



INTERSECTION PAVING DETAIL ?

S5.05 Standard Symbols (cont.)

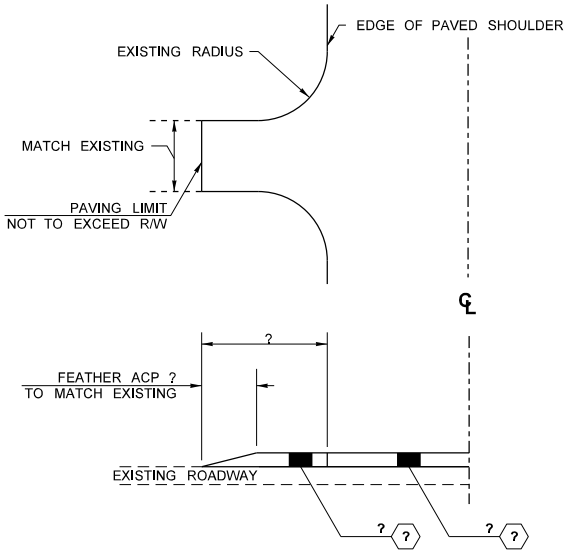
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

RS Intersection Paving In Shoulders
(SH_DT_Details)
Example drawn at 75% actual size.

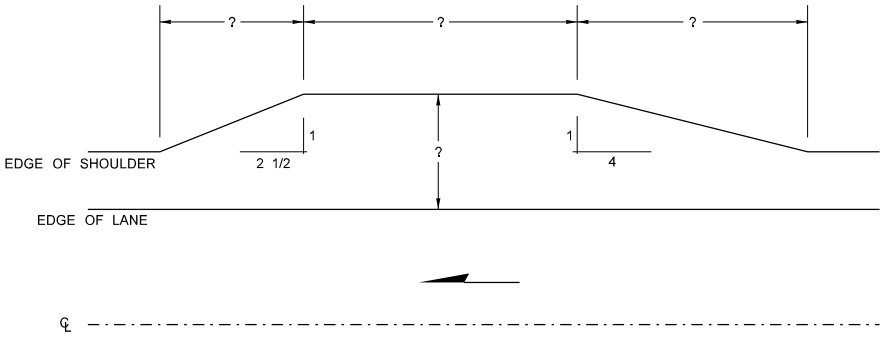
Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



INTERSECTION PAVING DETAIL ?

RS Mailbox Turnout
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



MAILBOX TURNOUT DETAIL
(SEE SPECIAL PROVISIONS AND STANDARD PLANS)
STA. ?

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

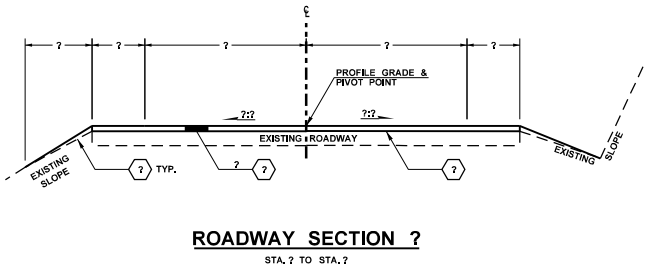
RS Overlay Section
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



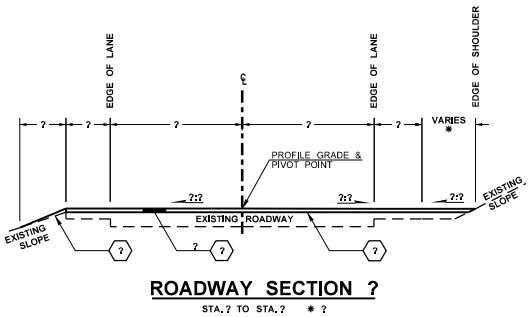
RS Overlay Section No Ditch
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



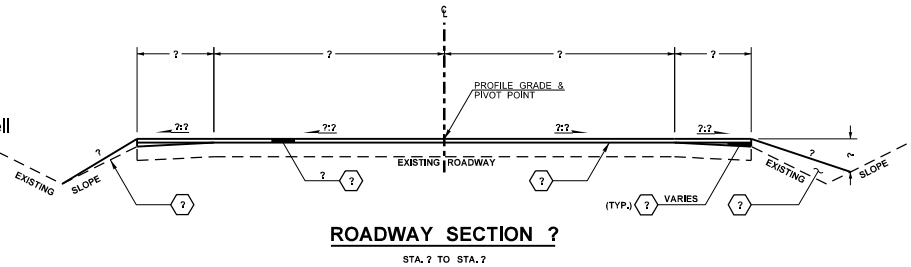
RS Overlay Shoulder Slope
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



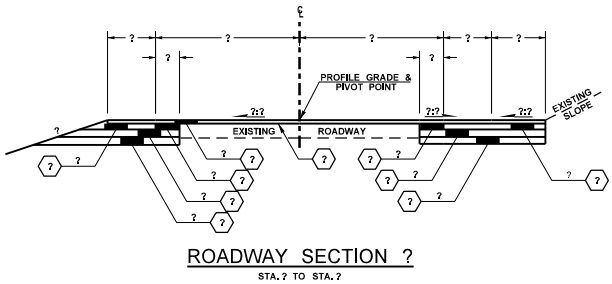
RS Overlay Wide Shldr 1
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

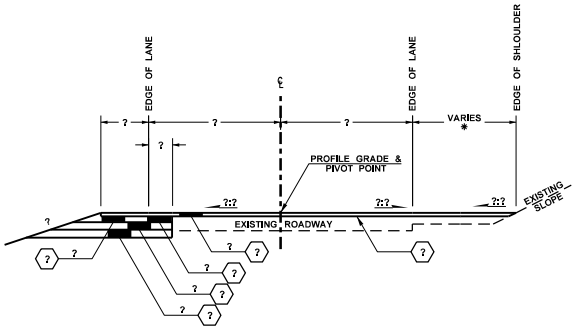
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

RS Overlay Wide Shldr 2
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

Body1
Text Size = 0.07
Font = arialbd / 217

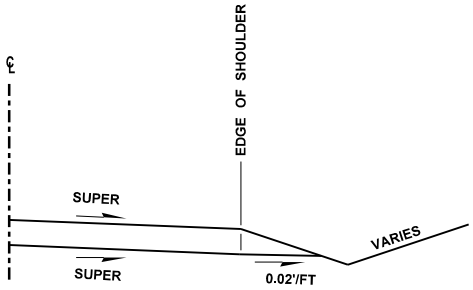


ROADWAY SECTION ?
STA.? TO STA.? * ?

RS SHLDR Design Inside Curve
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

Body1
Text Size = 0.07
Font = arialbd / 217

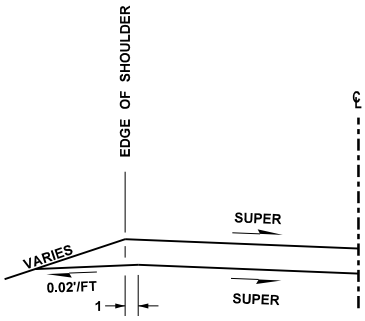


SHOULDER DESIGN
INSIDE OF CURVE

RS SHLDR Design Outside Curve
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

Body1
Text Size = 0.07
Font = arialbd / 217



SHOULDER DESIGN
OUTSIDE OF CURVE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

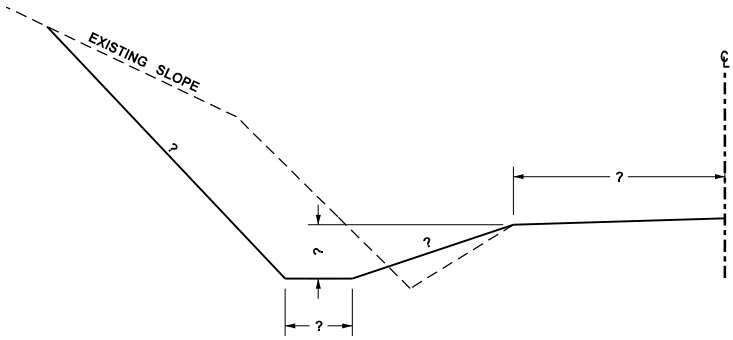
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

RS SHLDR Flat Bottom Ditch
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Header2	0 / 0
Text Size = 0.15	Text Size = 0.12	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

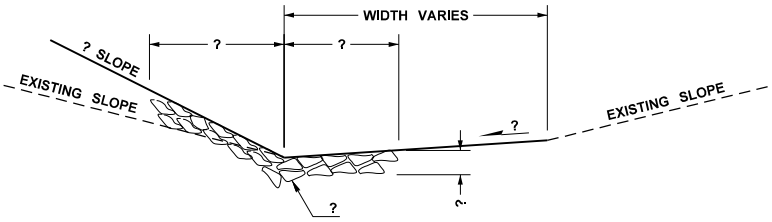
Body1
Text Size = 0.07
Font = arialbd / 217



FLAT BOTTOM DITCH SECTION

RS SHLDR Rock Lined Ditch Section
(SH_DT_Details)
Example drawn at 75% actual size.

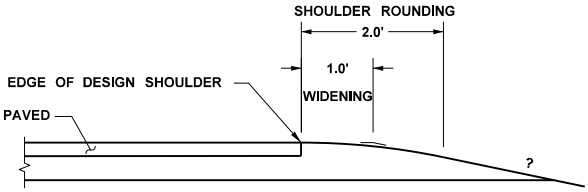
Header1	Body2	0 / 0
Text Size = 0.15	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



ROCK LINED DITCH SECTION

RS SHLDR Rounding Detail
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	0 / 0
Text Size = 0.15	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



SHOULDER ROUNDING DETAIL

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

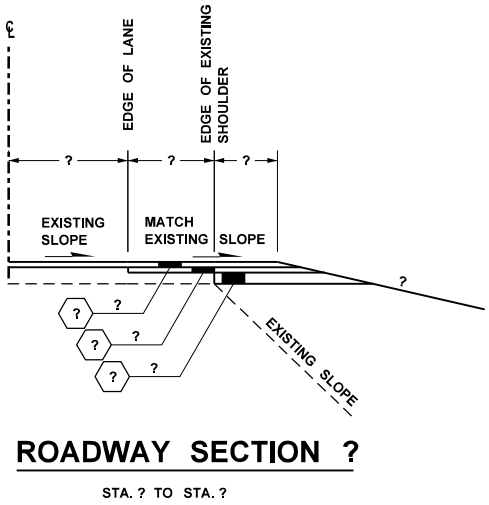
SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

RS SHLDR Widening 1
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

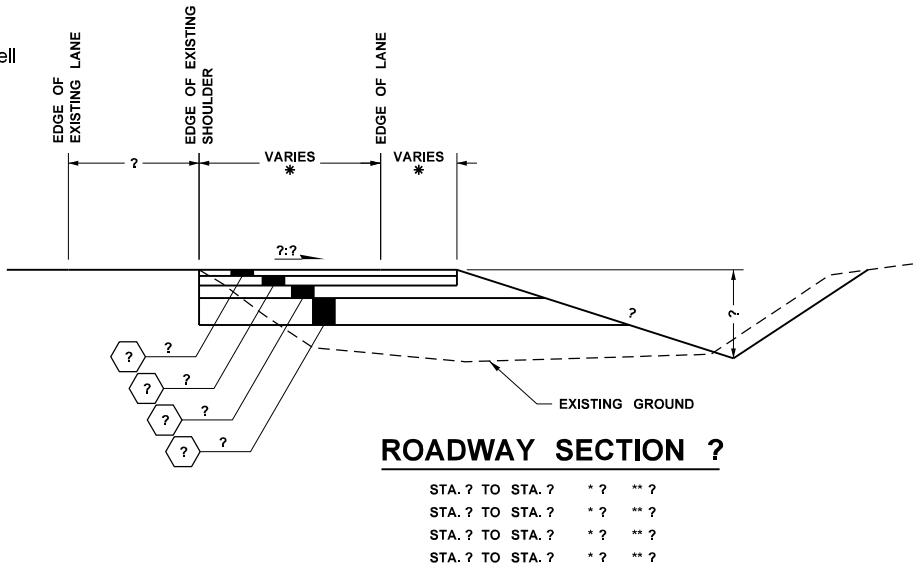
Body1
Text Size = 0.07
Font = arialbd / 217



RS SHLDR Widening 2
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

Body1
Text Size = 0.07
Font = arialbd / 217



S5.05 Standard Symbols (cont.)

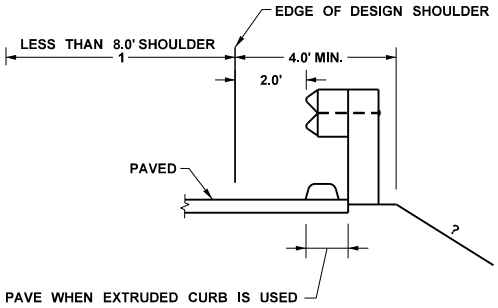
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

RS SHLDR Widening 3
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	
Text Size = 0.15	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



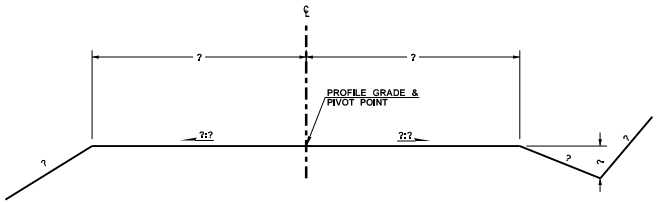
* SEE STANDARD PLAN FOR EMBANKMENT WIDENING AT GUARDRAIL TERMINALS.

SHOULDER WIDENING FOR GUARDRAIL DETAIL

RS Subgrade Section
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

Body1
Text Size = 0.07
Font = arialbd / 217

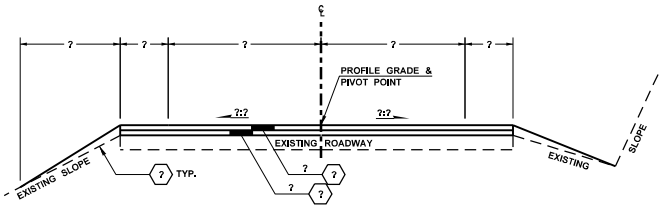


ROADWAY SECTION ?
STA. ? TO STA. ?

RS Surfacing Paving Section
(SH_DT_Details)
Example drawn at 50% actual size.

Header1	Header2	
Text Size = 0.15	Text Size = 0.12	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

Body1
Text Size = 0.07
Font = arialbd / 217



ROADWAY SECTION ?
STA. ? TO STA. ?

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

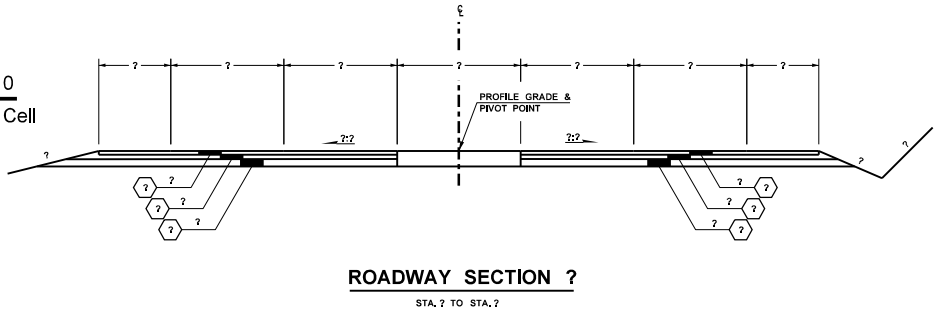
RS Undivided MultiLane Hiway
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell



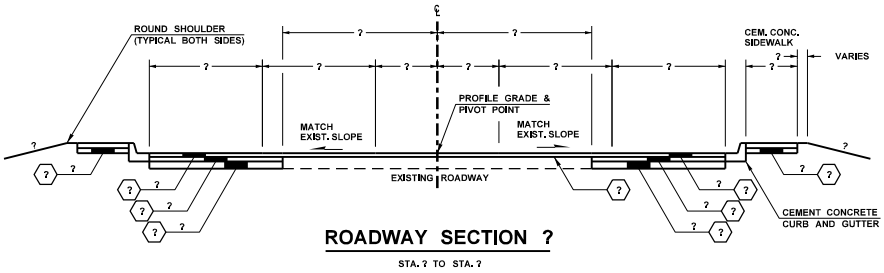
RS Widening Channel WCurb
(SH_DT_Details)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.12
Font = arialbd / 217

Body1
Text Size = 0.07
Font = arialbd / 217

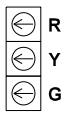
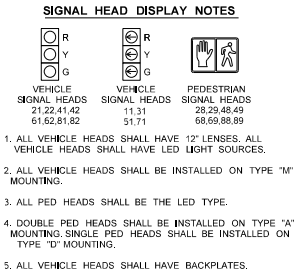
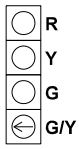
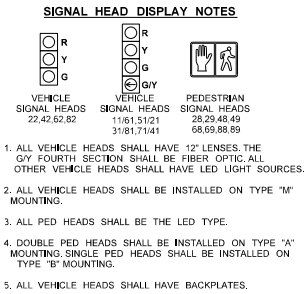
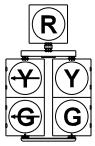
0 / 0
0 / Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
SG 3 Signal Head (SH_DT_Details)	0 / 0 0 / Cell	
SG 3 Signal Head and Notes (SH_DT_Details) Example drawn at 50% actual size. Header3 Text Size = 0.09 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
SG 4 Signal Head (SH_DT_Details)	0 / 0 0 / Cell	
SG 4 Signal Head and Notes (SH_DT_Details) Example drawn at 50% actual size. Header3 Text Size = 0.09 Font = arialbd / 217 Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell	
SG Double Signal Head Detail (SH_DT_Details) Text Size = 0.1 Font = arialbd / 217	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

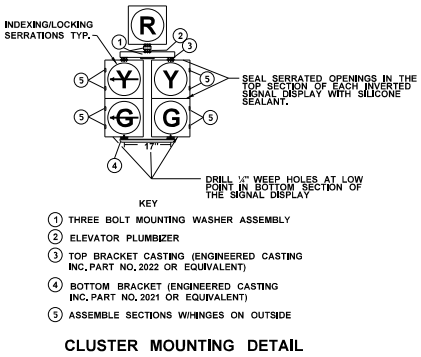
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

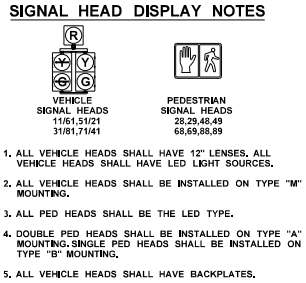
SG Double Signal Head Notes1
(SH_DT_Details)
Example drawn at 50% actual size.

Header3	Body2	0 / 0
Text Size = 0.09	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



SG Double Signal Head Notes2
(SH_DT_Details)
Example drawn at 50% actual size.

Header3	Body2	0 / 0
Text Size = 0.09	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	



SG Pedestrian Head
(SH_DT_Details)

0 / 0
0 / Cell

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

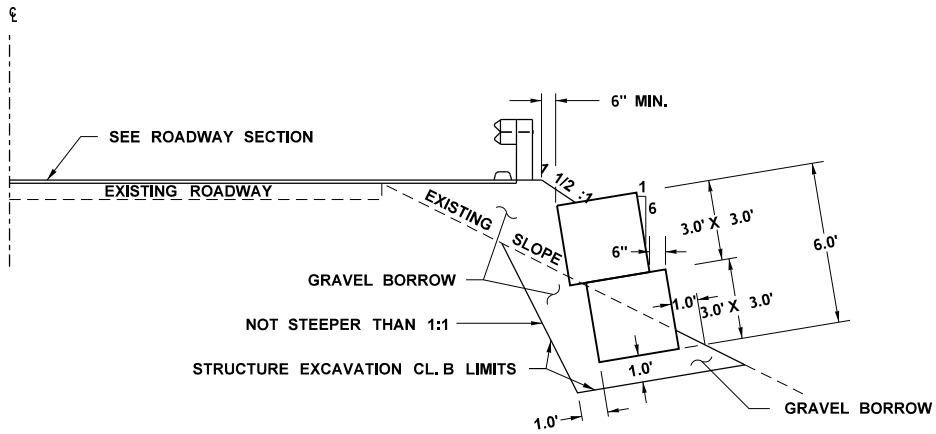
WA Gabion Cribbing
(SH_DT_Details)
Example drawn at 75% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

0 0
0 Cell

Body1
Text Size = 0.07
Font = arialbd / 217



GABION CRIBBING DETAIL

S5.05 Standard Symbols (cont.)

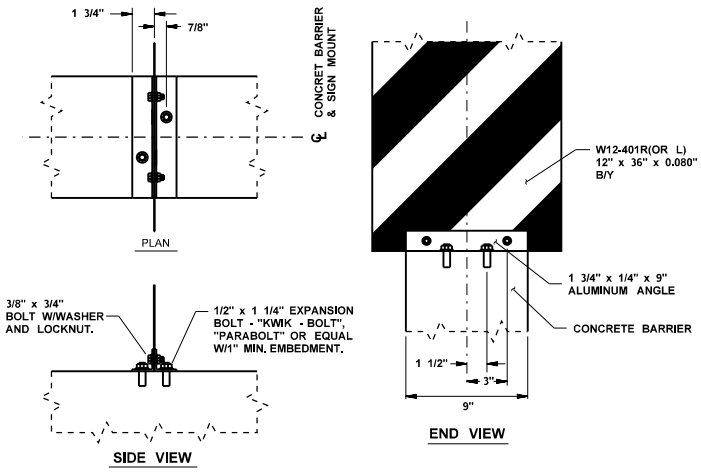
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

WZ Barrier Mount
(SH_DT_Details)
Example drawn at 60% actual size.

Header1 Text Size = 0.15 Font = arialbd / 217	Header3 Text Size = 0.09 Font = arialbd / 217	0 / 0 0 / Cell
Body1 Text Size = 0.07 Font = arialbd / 217		



MATERIAL SPECIFICATIONS

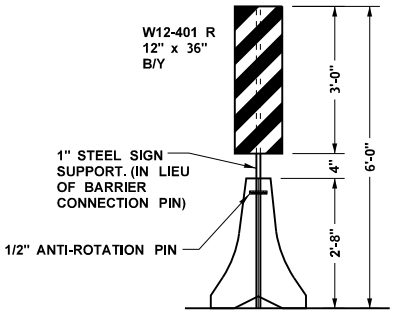
ALLUMINUM ANGLE - ASTM B209 6061-T6
ALLUMINUM BOLTS - ASTM B209 2024-T4
ALLUMINUM WASHERS - ASTM B209 2024-T4
ALLUMINUM LOCKNUTS - ASTM B211 2017-T4

NOTE: THIS SIGN ATTACHMENT BRACKET IS DESIGNED FOR USE ON ANY CAST IN PLACE CONCRETE TRAFFIC BARRIER WHERE THE BARRIER POST METHOD OF SIGN ATTACHMENT IS NOT APPLICABLE.

CONCRETE BARRIER SIGN MOUNT DETAIL

WZ Concrete Barrier Post
(SH_DT_Details)
Example drawn at 75% actual size.

Header1 Text Size = 0.12 Font = arialbd / 217	Body2 Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Cell



CONCRETE BARRIER POST DETAIL

NOTE: CLEARANCE MARKERS SHALL BE USED IN AREAS OF REDUCED SHOULDER WIDTH, AND AS SHOWN ON THE TEMPORARY CHANNELIZATION PLANS.

S5.05 Standard Symbols (cont.)

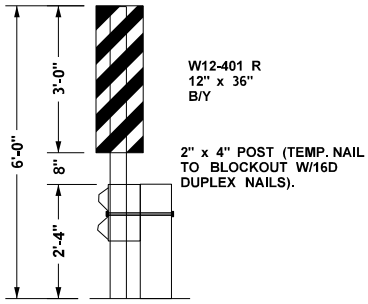
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH DT Sheet Items - Details Cells

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

WZ Guardrail Post
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

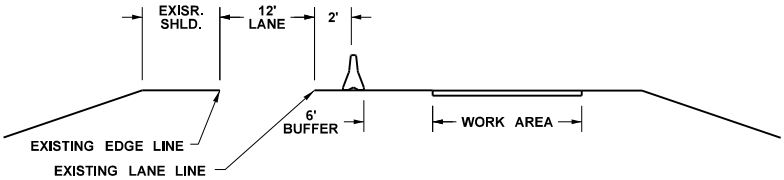


GUARDRAIL POST DETAIL

(FOR GROUND MOUNT USE 8' MIN. 2"X4" POST WITH 2' MIN. GROUND PENETRATION.)

WZ Roadway Section Typical
(SH_DT_Details)
Example drawn at 75% actual size.

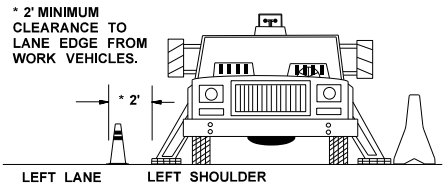
Header1	Body2	
Text Size = 0.15	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



TYPICAL ROADWAY SECTION A-A

WZ Shoulder Width
(SH_DT_Details)
Example drawn at 75% actual size.

Header1	Body2	
Text Size = 0.12	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



SHOULDER WIDTH DETAIL

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH EI Sheet Items - Environmental Items

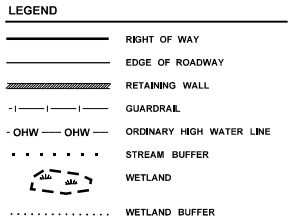
Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Legend 1

(SH_EI_LS Legend1)

Example drawn at 50% actual size.

Header3	Body2	
Text Size = 0.09	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

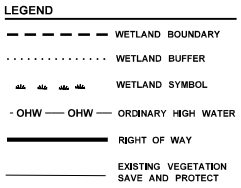


LS Legend 2

(SH_EI_LS Legend2)

Example drawn at 50% actual size.

Header3	Body2	
Text Size = 0.09	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell



LS Piezometer Table

(SH_EI_LS PiezometerTable)

Example drawn at 50% actual size.

Header3	Body2	
Text Size = 0.09	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	0 / Cell

PIEZO TABLE - WATER ELEVATION BY DATE

PIEZO NO.	PW-1-04	PW-2-04	W-1-04	W-2-04	W-3-04	W-4-04	W-5-04
12/29/2004	233.011						
1/25/2005							
2/23/2005							
3/23/2005							
4/25/2005							
5/19/2005							

LS Plant List Note

(SH_EI_LS PlantListNote)

Text Size = 0.07	0 / 0
Font = arialbd / 217	0 / Cell

GENERAL NOTES:

1. **IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.**
2. **SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.**
3. **ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK.**
4. **PLANTS SHALL BE RANDOMLY MIXED THROUGHOUT EACH PLANTING ZONE AS APPROVED BY THE ENGINEER. SEE SCHEDULE FOR MIN. GROUPINGS OF EACH SPECIES.**
5. **ALL TREES REQUIRING STAKING SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING.**
6. **ALL TREE/SHRUB PLANTINGS SHALL BE SETBACK A MIN. OF 5 FEET FROM ALL PAVEMENT EDGES, EXCEPT WHERE NOTED. (SEE SETBACK CHART)**

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH EI Sheet Items - Environmental Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

LS Plant Material Setback Chart 1

(SH_EI_LS PlantMaterialSetbackChart1)

Example drawn at 50% actual size.

Header2	Body2	0 / 0
Text Size = 0.1	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

PLANT MATERIAL SETBACK CHART

THIS CHART SUPPLEMENTS SECTION 8.02.3(7) OF THE STANDARD SPECIFICATIONS

	GUARDRAIL BARRIER	EDGE OF ROADWAY	WALL	FENCE	SIGNS	EXISTING TREE, TRUNK	EXISTING VEGETATION MASS
EVERGREEN TREE	10'	10'	10'	10'	15'	15'	10'
DECIDUOUS TREE	10'	10'	10'	10'	15'	15'	10'
SHRUB	5'	10'	5'	6'	6'	10'	10'

TYPICAL SETBACKS FOR PLANT MATERIAL UNLESS OTHERWISE ADJUSTED BY THE ENGINEER DURING LAYOUT AND STAKING OF PLANT LOCATIONS. DISTANCE NOTED IS TO STEM OR TRUNK OF PLANT.

LS Plant Material Setback Chart 2

(SH_EI_LS PlantMaterialSetbackChart2)

Example drawn at 50% actual size.

Header2	Body2	0 / 0
Text Size = 0.1	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

PLANT MATERIAL SETBACK CHART

THIS CHART SUPPLEMENTS SECTION 8.02.3(7) OF THE STANDARD SPECIFICATIONS

	GUARDRAIL BARRIER	EDGE OF ROADWAY	WALL	FENCE	SIGNS	EXISTING TREE, TRUNK	EXISTING VEGETATION MASS	OVERHEAD POWER
EVERGREEN TREE	10'	10	10'	10'	15'	15'	10'	30' (15' EA. SIDE)
DECIDUOUS TREE	10'	10	10'	10'	15'	15'	10'	30' (15' EA. SIDE)
SHRUB	5'	10'	5'	5'	5'	10'	10'	

TYPICAL SETBACKS FOR PLANT MATERIAL UNLESS OTHERWISE ADJUSTED BY THE ENGINEER DURING LAYOUT AND STAKING OF PLANT LOCATIONS. DISTANCE NOTED IS TO STEM OR TRUNK OF PLANT.

LS Quantity Tabs

(SH_EI_LS QuantityTabs)

Example drawn at 50% actual size.

Header3	Body2	0 / 0
Text Size = 0.09	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

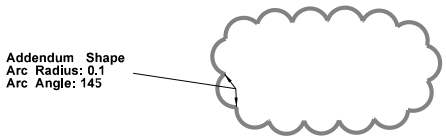
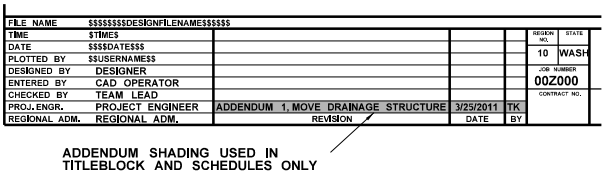
QUANTITY TABS - THIS SHEET ONLY

SYMBOL	ITEM	QUANTITY			
MIX F		F1			
	WILLOW FASCINE (LF)				
	SITKA WILLOW (LS) 2' O.C.				
	SCOULER'S WILLOW (LS) 2' O.C.				
MIX A - 1' O.C. (SEE NOTE 1)			A1	A2	
	HARDSTEM BULRUSH				
	SLOUGH SEDGE				
MIX B - 3' O.C.					B1
	WESTERN RED CEDAR				
	BEAKED HAZELNUT				
	INDIAN PLUM				
	RED OSIER DOGWOOD				
	SALMONBERRY				
	SNOWBERRY				
	VINE MAPLE				
	WESTERN SWORD FERN				
SOIL AMENDMENT (CY)					
COARSE COMPOST (CY)					
BARK OR WOOD CHIP MULCH (CY)					
DRY NATIVE SEED MIX					
	SEEDING, FERTILIZING AND MULCHING (AC)				

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

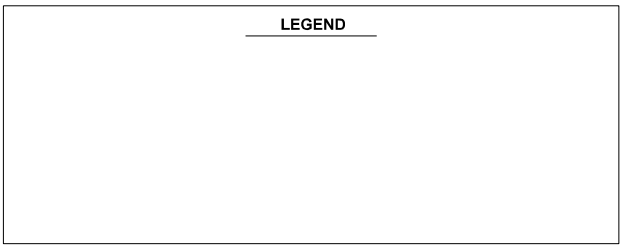
SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Addendum Cloud (SH_GI_AddendumCloud)	5	0 / Line	
Addendum Shading (SH_GI_AddendumShading) Example drawn at 50% actual size.	0	0 / Line	
Begin End Project Note (SH_GI_BeginEndProjectNote) Text Size = 0.13 Font = arialbd / 217	2	0 / Text	**BEGIN PROJECT**
Destination Arrow (SH_GI_DestinationArrow)	2	0 / Cell	
Destination Arrows Text (SH_GI_DestinationArrowsText) Text Size = 0.07 Font = arial / 200	0	0 / Text	TO YELM

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
General Notes Body Text (SH_GI_GeneralNotesBodyText) Text Size = 0.07 Font = arial / 200	0 / 0 18 / Text	Body of Text
General Notes Heading Text (SH_GI_GeneralNotesHeadingText) Text Size = 0.09 Font = arial / 200	0 / 0 18 / Text	Notes
LA Stamp (SH_GI_LAStamp)	0 / 0 2 / Cell	
Legend Template (SH_GI_LegendTemplate) Example drawn at 50% actual size. Header1: Text Size = 0.12, Font = arialbd / 217 Body2: Text Size = 0.07, Font = arialbd / 217	0 / 0 18 / Cell	
Line Break Large (SH_GI_LineBreakLg)	2 / 0 18 / Cell	
Line Break Small (SH_GI_LineBreakSm)	2 / 0 18 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Major Gridline (SH_GI_MajorGridline)	2	Custom	
	18	Line	
Match Line (SH_GI_MatchLine)	3	0	
	18	Line	
Match Line Text (SH_GI_MatchLineText) Text Size = 0.07 Font = arial / 200	0	0	MATCH LINE SEE SHEET XX
	18	Text	
Minor Gridline (SH_GI_MinorGridline)	0	Custom	
	18	Line	
NAD Datum Symbol (SH_GI_NADDatumSymbol) Text Size = 0.07 Font = ariali / 164	1	0	DATUM (NAVD) 88
	18	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
North Arrow (Rotate to Active) (SH_GI_NorthArrow(RotatetoActive))	2 / 0 18 / Cell	
North Arrow (Rotate to Reference) (SH_GI_NorthArrow(RotatetoReference))	2 / 0 18 / Cell	
PSE PE Stamp (SH_GI_PSEPEStamp) Header1 Text Size = 0.07 Font = arial / 200 Header2 Text Size = 0.06 Font = arial / 200	0 / 0 2 / Cell	
PSE Structural Engineering Stamp (SH_GI_PSEStructuralEngStamp) Header1 Text Size = 0.07 Font = arial / 200 Header2 Text Size = 0.06 Font = arial / 200 Body2 Text Size = 0.05 Font = arial / 200	0 / 0 2 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Revision Strike Through Line (SH_GI_RevisionStrikeThroughLine)	0 / Custom 18 / Line	
Scale Bar 100 (SH_GI_ScaleBar100) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 50 100 SCALE IN FEET
Scale Bar 1000 (SH_GI_ScaleBar1000) Text SIze = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 500 1000 SCALE IN FEET
Scale Bar 20 (SH_GI_ScaleBar20) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 10 20 SCALE IN FEET
Scale Bar 200 (SH_GI_ScaleBar200) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 100 200 SCALE IN FEET
Scale Bar 2000 (SH_GI_ScaleBar2000) Text SIze = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 1000 2000 SCALE IN FEET
Scale Bar 40 (SH_GI_ScaleBar40) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 20 40 SCALE IN FEET

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Scale Bar 50 (SH_GI_ScaleBar50) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 25 50 SCALE IN FEET
Scale Bar 500 (SH_GI_ScaleBar500) Text Size = 0.07 Font = arial / 200	5 / 0 18 / Cell	0 250 500 SCALE IN FEET
Section Cut (SH_GI_SectionCut)	3 / 0 0 / Line	
Title Block Names Text (SH_GI_TitleBlockNamesText) Text Size = 0.08 Font = arialbd / 217	0 / 0 0 / Text	**Designed By**
Title Block Project Name Text (SH_GI_TitleBlockProjectNameText) Text Size = 0.1 Font = arialbd / 217	0 / 0 0 / Text	**SRXX New Project**
Title Block Project Number Text (SH_GI_TitleBlockProjectNumText) Text Size = 0.07 Font = arialbd / 217	0 / 0 0 / Text	**L9999**
Title Block Ref Number Text (SH_GI_TitleBlockRefNumText) Text Size = 0.1 Font = arialbd / 217	0 / 0 0 / Text	**1 of 34**

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Title Block Sheet Number Text (SH_GI_TitleBlockSheetNumberText) Text Size = 0.09 Font = arialbd / 217	0 / 0 0 / Text	**123**
Title Block Text (SH_GI_TitleBlockText) Text Size = 0.08 Font = arialbd / 217	0 / 0 0 / Text	**Designed By**
Township Range Top Sheet Text (SH_GI_TownshipRangeTopSheetText) Text Size = 0.18 Font = arialbd / 217	2 / 0 24 / Text	**T.2N. R.1E. W.M.**
Traffic Movement Arrow Left 1 Lane (SH_GI_TrafficMvmntArrowLt1Lane)	1 / 0 18 / Cell	
Traffic Movement Arrow Left 2 Lane (SH_GI_TrafficMvmntArrowLt2Lane) Text Size = 0.07 Font = arialbd / 217	1 / 0 18 / Cell	2
Traffic Movement Arrow left 3 Lane (SH_GI_TrafficMvmntArrowLt3Lane) Text Size = 0.07 Font = arialbd / 217	1 / 0 18 / Cell	3
Traffic Movement Arrow Opposing (SH_GI_TrafficMvmntArrowOpposing)	1 / 0 18 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH GI Sheet Items - General Sheet Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Traffic Movement Arrow Right 1 Lane (SH_GI_TrafficMvmntArrowRt1Lane)	1 / 0 / 18 / Cell	
Traffic Movement Arrow Right 2 Lane (SH_GI_TrafficMvmntArrowRt2Lane) Text Size = 0.07 Font = arialbd / 217	1 / 0 / 18 / Cell	2
Traffic Movement Arrow Right 3 Lane (SH_GI_TrafficMvmntArrowRt3Lane) Text Size = 0.07 Font = arialbd / 217	1 / 0 / 18 / Cell	3
WSDOT Acronym Logo (SH_GI_WSDOTAcronymLogo)	2 / 0 / 161 / Cell	WSDOT
WSDOT Logo (SH_GI_WSDOTLogo)	2 / 0 / 161 / Cell	
WSDOT Sound Transit Logo (SH_GI_WSDOTSoundTransitLogo)	0 / 0 / 0 / Cell	Washington State Department of Transportation SOUNDTRANSIT

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PI Sheet Items - Permit Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

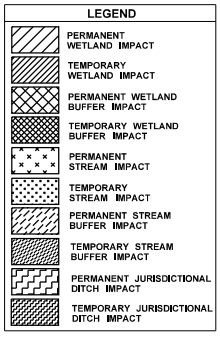
Impact Table
(SH_PI_ImpactTable)
Example drawn at 50% actual size.

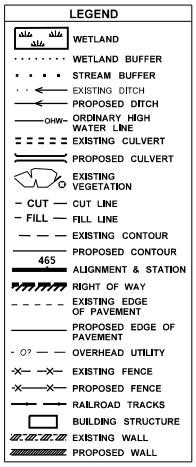
Header3	Body2	0 / 0
Text Size = 0.09	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	

WETLAND QUANTITIES	
WETLAND #	5
DOE CATEGORY	III
WETLAND AREA	1.25 ACRES
PERMANENT WETLAND IMPACT	0.15 ACRE
TEMPORARY WETLAND IMPACT	0.30 ACRE
PERMANENT WETLAND BUFFER IMPACT	0.27 ACRE
TEMPORARY WETLAND BUFFER IMPACT	0.15 ACRE

Legend Template 1
(SH_PI_LegendTemplate1)
Example drawn at 50% actual size.

Header3	Body2	0 / 0
Text Size = 0.09	Text Size = 0.07	0 / Cell
Font = arialbd / 217	Font = arialbd / 217	





S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PI Sheet Items - Permit Items

Description (Level Name) — ByLevel Weight | ByLevel Style; byLevel Color | Element Type — Example

Legend Template 2

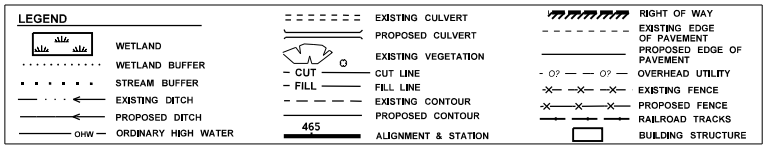
(SH_PI_LegendTemplate2)

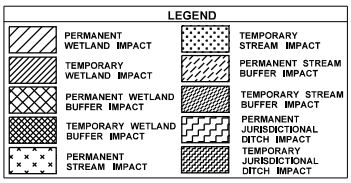
Example drawn at 50% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell





Mitigation Table

(SH_PI_MitigationTable)

Example drawn at 50% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell

WETLAND COMPENSATION					
WETLAND	IMPACTS (ACRES)	REESTABLISHMENT OR CREATION	REHABILITATION	ENHANCEMENT	BUFFER ENHANCEMENT
TOTAL					

Stream Impact Table

(SH_PI_StreamImpactTable)

Example drawn at 50% actual size.

Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell

STREAM OR JURISD. DITCH	TOTAL PERM. STREAM IMPACT	TOTAL TEMPORARY STREAM IMPACT	TOTAL PERM. STREAM BUFFER IMPACT	TOTAL TEMPORARY STREAM BUFFER IMPACT	TOTAL TEMPORARY JURISD. DITCH IMPACT	TOTAL PERMANENT JURISD. DITCH IMPACT
0016A	0.11 ACRE	0.017 ACRE	4.56 ACRE	1.56 ACRE		
0016	0.00 ACRE	0.004 ACRE	0.22 ACRE	0.00 ACRE		
HYLEBOS CREEK	0.00 ACRE	0.027 ACRE	0.00 ACRE	0.00 ACRE		

Wetland Impact Table

(SH_PI_WetlandImpactTable)

Example drawn at 50% actual size.

Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell

WETLAND NAME OR #	WETLAND CATEGORY (ECOLOGY)	WETLAND SIZE	PERMANENT WETLAND IMPACT	TEMPORARY WETLAND IMPACT	TOTAL WETLAND BUFFER IMPACT	TEMPORARY BUFFER IMPACT
WETLAND AB	III	0.42 ACRE	0 ACRE	0 ACRE	0.23 ACRE	0.14 ACRE
WETLAND K	III	0.13 ACRE	0 ACRE	0 ACRE	0 ACRE	0.01 ACRE
WETLAND M	II	1.16 ACRE	0.03 ACRE	0.024 ACRE	0.58 ACRE	0.17 ACRE
WETLAND N	III	0.20 ACRE	0.20 ACRE	0 ACRE	0 ACRE	0 ACRE
WETLAND P	II	1.90 ACRE	0 ACRE	0 ACRE	0.12 ACRE	0.24 ACRE
WETLAND Q	II	0.13 ACRE	0 ACRE	0 ACRE	0.00 ACRE	0.14 ACRE
WETLAND U	III	0.13 ACRE	0 ACRE	0 ACRE	0.15 ACRE	0.05 ACRE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PR Sheet Items - Plansheets RW

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Cross Reference Notes Text (SH_PR_CrossReferenceNotesText) Text Size = 0.07 Font = arial / 200	0 / 0 18 / Text	See Sheet XX

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example

Begin End Construction Text
(SH_PS_BeginEndConstrText)

Text Size = 0.13
Font = arialbd / 217

2 / 0
18 / Text

Begin Construction

Legend Abbreviations
(SH_PS_LegendAbbreviations)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell

ABBREVIATIONS LEGEND

BR MOUNT	BRIDGE MOUNTED SIGN BRACKET
CANT	CANTILEVER
CL	CENTER LINE
CN	CONSTRUCTION NOTE
CONT	CONTINUED
HAR	HIGHWAY ADVISORY RADIO
LT	LEFT
LT STD	LIGHT STANDARD
MOD	MODIFIED
MP	MILE POST
N/A	NOT APPLICABLE
NO	NUMBER
R	REMOVAL
RT	RIGHT
SIGN BR	SIGN BRIDGE
SQ	SQUARE
VMS	VARIABLE MESSAGE SIGN
W/	WITH

PFA Design Data Box
(SH_PS_PFADesignDataBox)

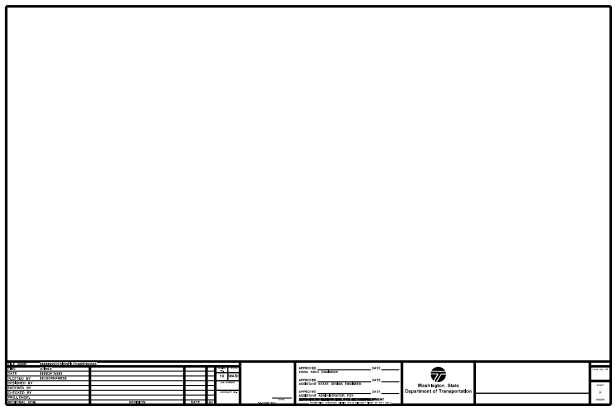
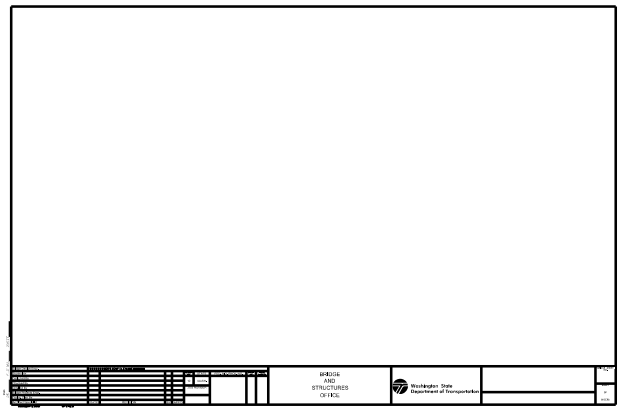
1 / 0
18 / Cell

DESIGN DATA BOX				
	ALIGNMENT 1	ALIGNMENT 2	ALIGNMENT 3	ALIGNMENT 4
HIGHWAY DESIGN CLASS				
CLASSIFICATION				
ACCESS CONTROL				
LAND USE				
PERCENT TRUCKS				
DESIGN VEHICLE				
POSTED SPEED				
DESIGN SPEED				
ADT (<YEAR>)				

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
PFA Plan Sheet (SH_PS_PFAPlanSheet) Example drawn at 20% actual size.	1 / 0 18 / Cell	
PSE Bridge Sheet (SH_PS_PSEBridgeSheet) Example drawn at 20% actual size.	1 / 0 18 / Cell	

S5.05 Standard Symbols (cont.)

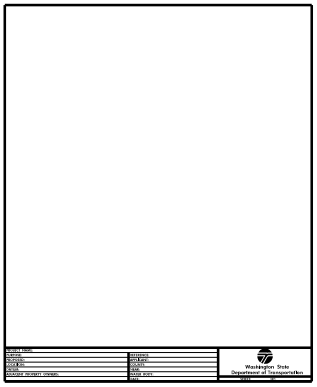
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

PSE Corps of Engineers Sheet Single
(SH_PS_PSECorpsofEngineersSheetSingle)
Example drawn at 20% actual size.

1 | 0
18 | Cell



PSE Curve Data Block
(SH_PS_PSECurveDataBlock)

Header3
Text Size = 0.09
Font = arialbd / 217

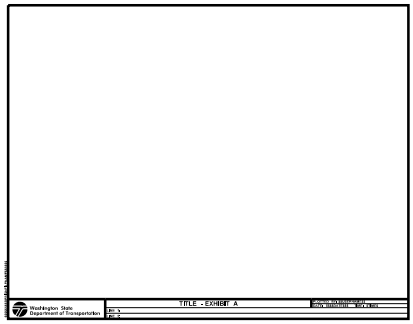
Body2
Text Size = 0.07
Font = arialbd / 217

1 | 0
18 | Cell

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S

PSE Exhibit Map Landscape
(SH_PS_ExhibitMapLandscape)
Example drawn at 20% actual size.

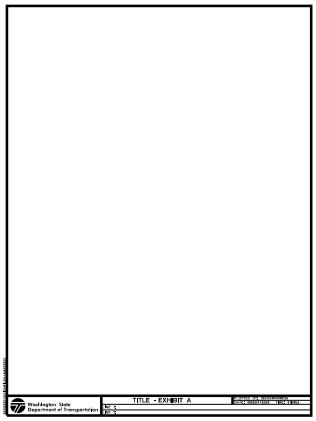
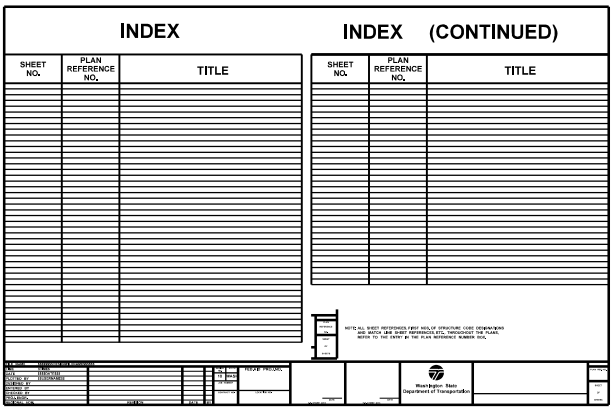
1 | 0
18 | Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

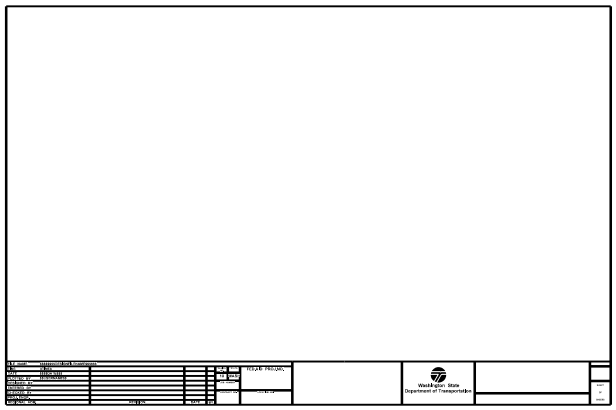
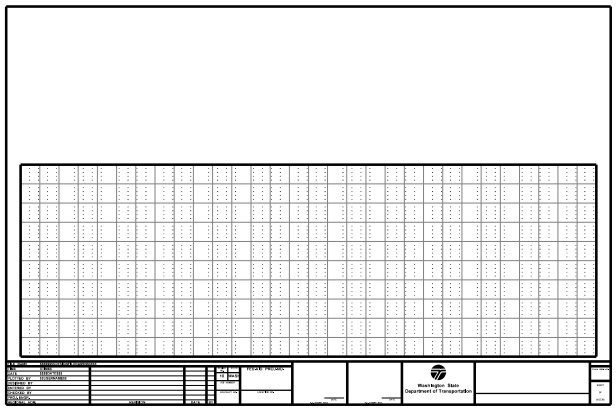
SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
PSE Exhibit Map Portrait (SH_PS_ExhibitMapPortrait) Example drawn at 20% actual size.	1 / 0 18 / Cell	
PSE Index Sheet (SH_PS_PSEIndexSheet) Example drawn at 20% actual size.	1 / 0 18 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
PSE Landscape Sheet (SH_PS_PSELandscapeSheet) Example drawn at 20% actual size.	1 / 0 18 / Cell	
PSE Plan Profile Sheet (SH_PS_PSEPlanProfileSheet) Example drawn at 20% actual size.	1 / 0 18 / Cell	

S5.05 Standard Symbols (cont.)

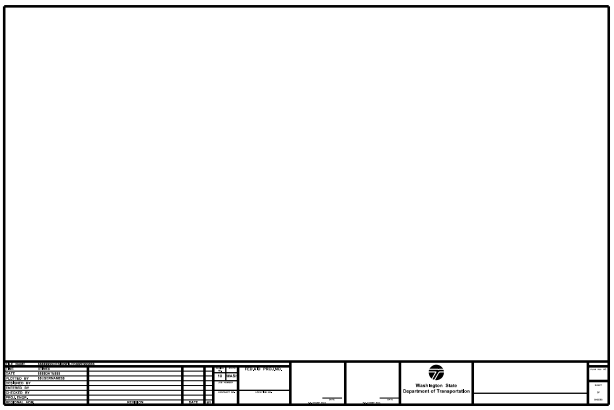
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

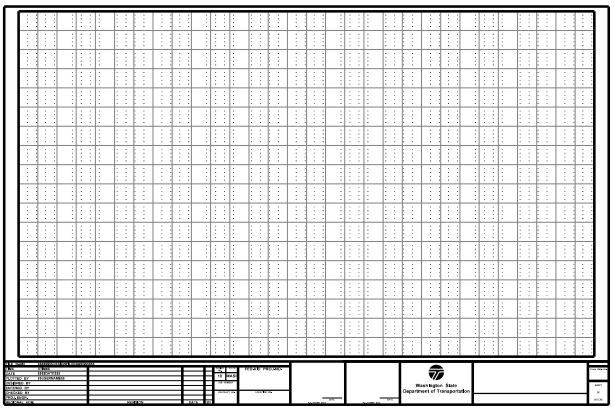
PSE Plan Sheet
(SH_PS_PSEPlanSheet)
Example drawn at 20% actual size.

1 | 0
18 | Cell



PSE Profile Sheet
(SH_PS_PSEProfileSheet)
Example drawn at 20% actual size.

1 | 0
18 | Cell



PSE Total Curve Data Block
(SH_PS_PSETotalCurveDataBlock)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 | 0
18 | Cell

TOTAL CURVE DATA			CURVE DATA				SPIRAL DATA		
P.I. STATION	DELTA	TANGENT	DELTA	RADIUS	LENGTH	S	a	DE	Ls

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH PS Sheet Items - Plansheets PSE

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Quantity Tab Note Flag (SH_PS_QuantityTabNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Cell	??
Quantity Tab Note Flag Cont (SH_PS_QuantityTabNoteFlagCont) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Cell	?? ??
Quantity Tab Note Flag Cont Large (SH_PS_QuantityTabNoteFlagContLg)	0 / 0 18 / Cell	???? ????

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RP Sheet Items - Roadway Profiles

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
Elevation Labels Text (SH_RP_ElevationLabelsText) Text Size = 0.09 Font = arialbd / 217	0 | 0 18 | Text	**100**
Line Designation Text (SH_RP_LineDesignationText) Text Size = 0.09 Font = arialbd / 217	0 | 0 18 | Text	**L Line**
Original Ground Profile (SH_RP_OriginalGroundProfile)	1 | Custom 0 | Line	
Quantity Breakout Horizontal Lines (SH_RP_QuantityBreakoutHorLines)	1 | 0 1 | Line	
Quantity Breakout Text (SH_RP_QuantityBreakoutText) Text Size = 0.07 Font = arialbd / 217	0 | 0 17 | Text	**100 Yds**
Quantity Breakout Vertical Lines (SH_RP_QuantityBreakoutVertLines)	3 | 0 1 | Line	
Roadway Section Horizontal Lines (SH_RP_RoadwaySectionHorzLines)	2 | 0 1 | Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RP Sheet Items - Roadway Profiles

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Roadway Section Text (SH_RP_RoadwaySectionText) Text Size = 0.07 Font = arialbd / 217	0 / 0 17 / Text	**Roadway Section**
Roadway Section Vertical Lines (SH_RP_RoadwaySectionVertLines)	3 / 0 1 / Line	
Station Labels Text (SH_RP_StationLabelsText) Text SIze = 0.09 Font = arialbd / 217	0 / 0 18 / Text	**10**
Superelevation Cline (SH_RP_SuperelevationCline)	5 / 0 2 / Line	
Superelevation Ex Lines (SH_RP_SuperelevationExLines)	1 / 3 2 / Line	
Superelevation Lines (SH_RP_SuperelevationLines)	4 / 0 2 / Line	
Superelevation Text (SH_RP_SuperelevationText) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Text	**0.02**

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RP Sheet Items - Roadway Profiles

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
Vertical Profile Grade Text (SH_RP_VProfGradeText) Text Size = 0.07 Font = arialbd / 217	0 | 0 18 | Text	**0.02**
Vertical Profile Line (SH_RP_VProfLine)	5 | 0 2 | Line	
Vertical Profile Station Equation (SH_RP_VProfStationEquation) Text SIze = 0.07 Font = ariali / 164	1 | 0 18 | Cell	EQUATION
Vertical Profile Station Equation New (SH_RP_VProfStationEquationNew) Text Size = 0.07 Font = arialbd / 217	1 | 0 18 | Cell	EQUATION
Vertical Profile Text (SH_RP_VProfText) Text Size = 0.07 Font = arialbd / 217	0 | 0 18 | Text	**L Line**
VPI Circle (SH_RP_VPICircle)	0 | 0 0 | Cell	○
VPI Circle New (SH_RP_VPICircleNew) Text Size = 0.07 Font = ariali / 164	1 | 0 2 | Cell	○

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RP Sheet Items - Roadway Profiles

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
VPI Lines (SH_RP_VPILines)	1 / 3 / 2 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RS Sheet Items - Roadway Sections

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Approach Schedule
(SH_RS_ApproachSchedule)
Example drawn at 50% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
0 | Cell

APPROACH SCHEDULE

STATION	WIDTH		APPROACH DETAIL	ASPHALT CONC. APPROACH CL. ? TON
	LEFT	RIGHT		

Body Existing Text
(SH_RS_BodyExistingText)

Text Size = 0.07
Font = ariali / 164

0 | 0
18 | Text

BODY EXIST

Body Text New
(SH_RS_BodyTextNew)

Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Text

BODY NEW

Center Line
(SH_RS_CenterLine)

3 | 7
18 | Line

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RS Sheet Items - Roadway Sections

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Construction Note Flag (SH_RS_ConstructionNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 18 / Cell	?
Dimension Lines (SH_RS_DimensionLines)	0 / 0 18 / Line	
Heading 1 Text (SH_RS_Heading1Text) Text SIze = 0.15 Font = arialbd / 217	2 / 0 18 / Text	**Heading 1**
Heading 2 Text (SH_RS_Heading2Text) Text Size = 0.12 Font = arialbd / 217	0 / 0 18 / Text	**Heading 2**
Heading 3 Text (SH_RS_Heading3Text) Text Size = 0.09 Font = arialbd / 217	0 / 0 18 / Text	**Heading 3**

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RS Sheet Items - Roadway Sections

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Intersection Schedule
(SH_RS_IntersectionSchedule)
Example drawn at 75% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

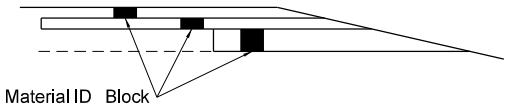
Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
0 / Cell

INTERSECTION SCHEDULE			
STATION	WIDTH		INTERSECTION DETAIL
	LEFT	RIGHT	

Material ID Block
(SH_RS_MaterialIDBlock)

30 / 0
18 / Line



Material ID Flag
(SH_RS_MaterialIDFlag)

Text Size = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH RS Sheet Items - Roadway Sections

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

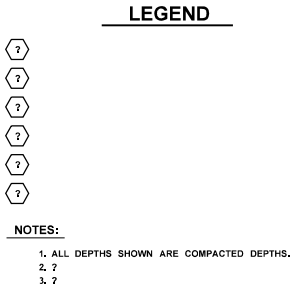
Roadway Section Legend
(SH_RS_RoadwaySectionLegend)
Example drawn at 50% actual size.

Header1
Text Size = 0.15
Font = arialbd / 217

Header2
Text Size = 0.1
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
18 / Cell



Roadway Surface Existing
(SH_RS_RoadwaySurfaceExisting)

1 / 3
0 / Line

Roadway Surface New
(SH_RS_RoadwaySurfaceNew)

2 / 0
18 / Line

Slope Arrow Left
(SH_RS_SlopeArrowLeft)

Text Size = 0.07
Font = arialbd / 217

0 / 0
18 / Cell

Slope Arrow Right
(SH_RS_SlopeArrowRight)

Text SIze = 0.07
Font = arialbd / 217

0 / 0
18 / Cell

Table Grid Lines
(SH_RS_TableGridLines)

1 / 0
18 / Line

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Approved Traffic Engineer
(SH_TI_ApprovedTrafficEngineer)

Note
Text Size = 0.14
Font = arial / 200

Footer
Text Size = 0.07
Font = arial / 200

1 | 0
18 | Cell

APPROVED

TRAFFIC ENGINEER

Breaker Schedule Type B
(SH_TI_BreakerScheduleTypeB)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Cell

BREAKER SCHEDULE SUA ***
TYPE B SERVICE 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
---	MAIN	200 AMP	---	---	---
A	ILLUMINATION A	X	30 AMP	240	X
B	ILLUMINATION B	X	30 AMP	240	X
C	SPARE	20 AMP	N/A	240	0.0
D	SIGNAL	X	N/A	120	X
E	GFCI	20 AMP	N/A	120	1.8
F	PHOTOCELL	15 AMP	N/A	120	0.001
BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM			PEAK		X
			CONTINUOUS		X

Breaker Schedule Type D
(SH_TI_BreakerScheduleTypeD)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Cell

BREAKER SCHEDULE SUA ***
TYPE D SERVICE 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
---	MAIN	200 AMP	---	---	---
A	ILLUMINATION A	X	30 AMP	240	X
B	ILLUMINATION B	X	30 AMP	240	X
C	ILLUMINATION C	X	30 AMP	240	X
D	ILLUMINATION D	X	30 AMP	240	X
E	ILLUMINATION E	X	30 AMP	240	X
F	SPARE	20 AMP	N/A	240	0.0
G	SPARE	20 AMP	N/A	240	0.0
H	SIGNAL	X	N/A	120	X
I	GFCI	20 AMP	N/A	120	1.8
J	HEAT STRIP	15 AMP	N/A	120	0.1
K	PHOTOCELL	15 AMP	N/A	120	0.001
BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM			PEAK		X
			CONTINUOUS		X

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Breaker Schedule Type E
(SH_TI_BreakerScheduleTypeE)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Cell

BREAKER SCHEDULE TYPE E SERVICE			SUA *** 240/480V		
CIRCUIT	DESCRIPTION	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
---	MAIN	200 AMP	---	---	---
A	ILLUMINATION A	X	30 AMP	480	X
B	ILLUMINATION B	X	30 AMP	480	X
C	ILLUMINATION C	X	30 AMP	480	X
D	ILLUMINATION D	X	30 AMP	480	X
E	ILLUMINATION E	X	30 AMP	480	X
F	EXTERNAL TRANSFORMER	X	N/A	480	X
G	SPARE	20 AMP	N/A	480	0.0
H	SPARE	20 AMP	N/A	480	0.0
I	INTERNAL TRANSFORMER	20 AMP	N/A	480	---
II	TRANSFORMER SECONDARY	35 AMP	N/A	120	---
I-1	GFCI	20 AMP	N/A	120	1.8
I-2	HEAT STRIP	15 AMP	N/A	120	0.1
I-3	PHOTOCELL	15 AMP	N/A	120	0.001
BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM			PEAK		X
			CONTINUOUS		X

Buffer Data Note
(SH_TI_BufferDataNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 | 0
18 | Cell

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE		
TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30
ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT		

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

** A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Camera Schedule
(SH_TI_CameraSchedule)

Header3: Text Size = 0.09, Font = arialbd / 217
Body2: Text Size = 0.07, Font = arialbd / 217
1 / 0 / 18 / Cell

CAMERA SCHEDULE	
VIDEO CAMERA	LENS

Chan Spacing 25 to 45 Note
(SH_TI_ChanSpacing25to45Note)

Header3: Text Size = 0.09, Font = arialbd / 217
Body2: Text Size = 0.07, Font = arialbd / 217
1 / 0 / 18 / Cell

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/45	30	60
25/30	20	40

Chan Spacing 25 to 70 Note
(SH_TI_ChanSpacing25to70Note)

Header3: Text Size = 0.09, Font = arialbd / 217
Body2: Text Size = 0.07, Font = arialbd / 217
1 / 0 / 18 / Cell

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

Chan Spacing 35 to 45 Note
(SH_TI_ChanSpacing35to45Note)

Header3: Text Size = 0.09, Font = arialbd / 217
Body2: Text Size = 0.07, Font = arialbd / 217
1 / 0 / 18 / Cell

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/45	30	60

Chan Spacing 35 to 70 Note
(SH_TI_ChanSpacing35to70Note)

Header3: Text Size = 0.09, Font = arialbd / 217
Body2: Text Size = 0.07, Font = arialbd / 217
1 / 0 / 18 / Cell

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

Chan Spacing 50 to 70 Note
(SH_TI_ChanSpacing50to70Note)

Header3: Text Size = 0.09, Font = arialbd / 217
Body2: Text Size = 0.07, Font = arialbd / 217
1 / 0 / 18 / Cell

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Illumination Schedule Large
(SH_TI_IllumScheduleLarge)
Example drawn at 50% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
18 / Cell

LUMINAIRE SCHEDULE — SERVICE NO. S*** ****

LUMINAIRE NUMBER	CIRCUIT	LOCATION STATION	LOCATION OFFSET	TYPE - DISTRIBUTION - WATTAGE	MAST ARM	H1	BASE TYPE	COMMENTS
*	*	00+00	0.00	III - MED CUTOFF - 400 HPS	*	*	*	

Illumination Schedule Medium
(SH_TI_IllumScheduleMedium)
Example drawn at 50% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
18 / Cell

LUMINAIRE SCHEDULE — SERVICE NO. S*** ****

LUMINAIRE NUMBER	CIRCUIT	LOCATION STATION	LOCATION OFFSET	TYPE - DISTRIBUTION - WATTAGE	MAST ARM	H1	BASE TYPE	COMMENTS
*	*	00+00	0.00	III - MED CUTOFF - 400 HPS	*	*	*	

Illumination Schedule Small
(SH_TI_IllumScheduleSmall)
Example drawn at 50% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
18 / Cell

LUMINAIRE SCHEDULE — SERVICE NO. S*** ****

LUMINAIRE NUMBER	CIRCUIT	LOCATION STATION	LOCATION OFFSET	TYPE - DISTRIBUTION - WATTAGE	MAST ARM	H1	BASE TYPE	COMMENTS
*	*	00+00	0.00	III - MED CUTOFF - 400 HPS	*	*	*	

S5.05 Standard Symbols (cont.)

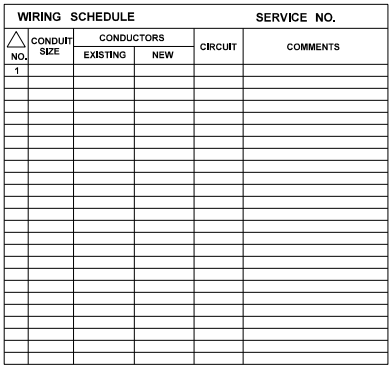
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

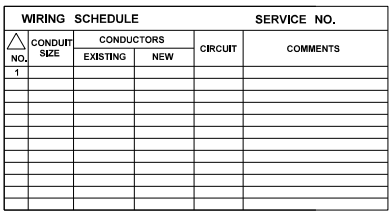
Illumination Wire Schedule Large
(SH_TI_IllumWireScheduleLarge)
Example drawn at 50% actual size.

Header3	Body2	
Text Size = 0.09	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	18 / Cell



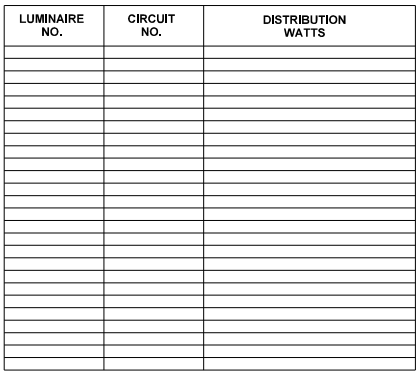
Illumination Wire Schedule Small
(SH_TI_IllumWireScheduleSmall)
Example drawn at 50% actual size.

Header3	Body2	
Text Size = 0.09	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	18 / Cell



Luminaire Schedule 40
(SH_TI_LuminaireSchedule40)
Example drawn at 50% actual size.

Header3	Body2	
Text Size = 0.09	Text Size = 0.07	0 / 0
Font = arialbd / 217	Font = arialbd / 217	18 / Cell



S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Min Taper Length 25 to 35 Note
(SH_TI_MinTaperLength25to35Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	-	-	-	-	-	-	-
11	115	165	225	-	-	-	-	-	-	-
12	125	180	245	-	-	-	-	-	-	-

Min Taper Length 25 to 40 Note
(SH_TI_MinTaperLength25to40Note)

Header3
Text SIze = 0.09
Font = arialbd / 217

Body2
Text SIze = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

Min Taper Length 25 to 45 Note
(SH_TI_MinTaperLength25to45Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	-	-	-	-	-
11	115	165	225	295	495	-	-	-	-	-
12	125	180	245	320	540	-	-	-	-	-

Min Taper Length 25 to 50 Note
(SH_TI_MinTaperLength25to50Note)

Header3
Text SIze = 0.09
Font = arialbd / 217

Body2
Text SIze = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name) | ByLevel Weight / ByLevel Style / byLevel Color / Element Type | Example

Min Taper Length 25 to 55 Note
(SH_TI_MinTaperLength25to55Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	-	-	-
12	125	180	245	320	540	600	660	-	-	-

Min Taper Length 25 to 60 Note
(SH_TI_MinTaperLength25to60Note)

Header3
Text SIze = 0.09
Font = arialbd / 217

Body2
Text SIze = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

Min Taper Length 25 to 70 Note
(SH_TI_MinTaperLength25to70Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

Min Taper Length 40 to 70 Note
(SH_TI_MinTaperLength40to70Note)

Header3
Text SIze = 0.09
Font = arialbd / 217

Body2
Text SIze = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	270	450	500	550	-	-	-
11	-	-	-	295	495	550	605	660	-	-
12	-	-	-	320	540	600	660	720	780	840

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Min Taper Length 45 to 70 Note
(SH_TI_MinTaperLength45to70Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

Min Taper Length 55 to 70 Note
(SH_TI_MinTaperLength55to70Note)

Header3
Text SIze = 0.09
Font = arialbd / 217

Body2
Text SIze = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

Min Taper Length Full Note
(SH_TI_MinTaperLengthFullNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
6	63	90	125	165	270	300	330	360	390	420
8	84	120	162	210	360	405	450	480	525	570
10	105	150	205	270	450	500	550	600	660	705
11	115	165	225	295	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840

PCMS Block Sequence
(SH_TI_PCMSBlockSequence)
Example drawn at 75% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 0
0 Cell

PCMS MESSAGE #1	
PHASE 1	PHASE 2
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF LANE CLOSURE

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

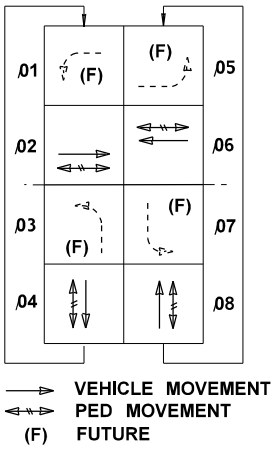
Phase Diagram
(SH_TI_PhaseDiagram)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Cell

PHASE DIAGRAM



Pole Schedule
(SH_TI_PoleSchedule)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Cell

POLE SCHEDULE

	LOCATION	POLE TYPE	BASE TYPE

Preemption Schedule
(SH_TI_PreemptionSchedule)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 | 0
18 | Cell

PREEMPTION SCHEDULE

CIRCUIT	PHASE(S)	MODEL NO.
A	2 & 5	521
B	4 & 7	521
C	6 & 1	521
D	8 & 3	521

Sign Dimension Note
(SH_TI_SignDimensionNote)

Text Size = 0.07
Font = arialbd / 217

1 | 0
18 | Cell

ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Sign Spacing 25 to 40 Note
(SH_TI_SignSpacing25to40Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

SIGN SPACING = X		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

Sign Spacing 25 to 65 Note
(SH_TI_SignSpacing25to65Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

SIGN SPACING = X		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

Sign Spacing 35 to 55 Note
(SH_TI_SignSpacing35to55Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

SIGN SPACING = X		
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

Sign Spacing 35 to 70 Note
(SH_TI_SignSpacing35to70Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Sign Spacing 45 to 70 Note
(SH_TI_SignSpacing45to70Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

Sign Spacing 55 to 70 Note
(SH_TI_SignSpacing55to70Note)

Header3
Text SIze = 0.09
Font = arialbd / 217

Body2
Text SIze = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

Sign Spacing 60 to 70 Note
(SH_TI_SignSpacing60to70Note)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

Sign Spacing Note
(SH_TI_SignSpacingNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

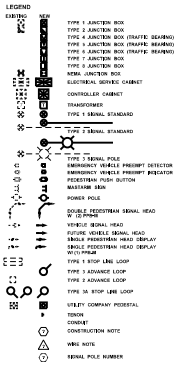
Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Signal Legend
(SH_TI_SignalLegend)
Example drawn at 25% actual size.

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

0 / 0
18 / Cell



TIA Approved List 40 MPH Note
(SH_TI_TIAApprovedList40MPHNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

TEMPORARY IMPACT ATTENUATOR APPROVED LIST

A. INERTIAL BARRIERS (SAND BARREL ARRAYS):

* ENERGY ABSORPTION SYSTEMS INC. - ENERGITE INERTIAL BARRIERS TYPE 1
* ROADWAY SAFETY SERVICES, INC. - FITCH INERTIAL BARRIERS TYPE 1
* TRAFFIX DEVICES, INC. - TRAFFIC IMPACT ATTENUATOR SAND BARRELS TYPE 1

B. CRASH CUSHIONS:

* ENERGY ABSORPTION SYSTEMS INC. - QUADGUARD (3 BAY)
* ENERGY ABSORPTION SYSTEMS INC. - GREAT CZ (3 BAY)
* ENERGY ABSORPTION SYSTEMS INC. - N.E.A.T.
* ROADWAY SAFETY SERVICES, INC. - REACT 350 (4 CYLINDERS)
* SYRO/TRINITY - ADIEM II

TIA Approved List 50 MPH Note
(SH_TI_TIAApprovedList50MPHNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 / 0
18 / Cell

TEMPORARY IMPACT ATTENUATOR APPROVED LIST

A. INERTIAL BARRIERS (SAND BARREL ARRAYS):

* ENERGY ABSORPTION SYSTEMS INC. - ENERGITE INERTIAL BARRIERS TYPE 3
* ROADWAY SAFETY SERVICES, INC. - FITCH INERTIAL BARRIERS TYPE 3
* TRAFFIX DEVICES, INC. - TRAFFIC IMPACT ATTENUATOR SAND BARRELS TYPE 3

B. CRASH CUSHIONS:

* ENERGY ABSORPTION SYSTEMS INC. - QUADGUARD (6 BAY)
* ENERGY ABSORPTION SYSTEMS INC. - GREAT CZ (6 BAY)
* ROADWAY SAFETY SERVICES, INC. - REACT 350 (6 CYLINDERS)
* SYRO/TRINITY - ADIEM II

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

TIA Approved List 60 MPH Note
(SH_TI_TIAApprovedList60MPHNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

TEMPORARY IMPACT ATTENUATOR APPROVED LIST

A. INERTIAL BARRIERS (SAND BARREL ARRAYS):

* ENERGY ABSORPTION SYSTEMS INC. - ENERGITE INERTIAL BARRIERS TYPE 5
* ROADWAY SAFETY SERVICES, INC. - FITCH INERTIAL BARRIERS TYPE 5
* TRAFFIX DEVICES, INC. - TRAFFIC IMPACT ATTENUATOR SAND BARRELS TYPE 5

B. CRASH CUSHIONS:

* ENERGY ABSORPTION SYSTEMS INC. - QUADGUARD (6 BAY)
* ENERGY ABSORPTION SYSTEMS INC. - GREAT CZ (6 BAY)
* ROADWAY SAFETY SERVICES, INC. - REACT 350 (9 CYLINDERS)
* SYRO/TRINITY - ADIEM II

TIA Approved List 70 MPH Note
(SH_TI_TIAApprovedList70MPHNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

TEMPORARY IMPACT ATTENUATOR APPROVED LIST

A. INERTIAL BARRIERS (SAND BARREL ARRAYS):

* ENERGY ABSORPTION SYSTEMS INC. - ENERGITE INERTIAL BARRIERS TYPE 6
* ROADWAY SAFETY SERVICES, INC. - FITCH INERTIAL BARRIERS TYPE 6
* TRAFFIX DEVICES, INC. - TRAFFIC IMPACT ATTENUATOR SAND BARRELS TYPE 6

B. CRASH CUSHIONS:

* ENERGY ABSORPTION SYSTEMS INC. - QUADGUARD (6 BAY)
* ENERGY ABSORPTION SYSTEMS INC. - GREAT CZ (6 BAY)
* ROADWAY SAFETY SERVICES, INC. - REACT 350 (9 CYLINDERS)
* SYRO/TRINITY - ADIEM II

TIA Approved List Note
(SH_TI_TIAApprovedListNote)

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

TEMPORARY IMPACT ATTENUATOR APPROVED LIST

A. INERTIAL BARRIERS (SAND BARREL ARRAYS):

* ENERGITE INERTIAL BARRIERS TYPE 5
* FITCH INERTIAL BARRIERS TYPE 5

B. CRASH CUSHIONS:

* QUADGUARD
* QUADGUARD CZ
* QUADGUARD ELITE
* REACT 350
* WIDE REACT 350
* ABSORB 350
* ADIEM 350
* NEAT
* TRACC

TMA Required Note
(SH_TI_TMARequiredNote)

Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

TMA - REQUIRED

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH TI Sheet Items - Traffic Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example

Wire Schedule (No Power)
(SH_TI_WireSchedule(NoPower))

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

1 0
18 Cell

WIRING SCHEDULE						SERVICE NO.	
△ NO.	CONDUIT SIZE	P / V DETECT 2C(S)	E. V. DETECT 3C(S)	VEH HEAD 5C	PED HEAD 5C	POWER #6	COMM CABLE 6PR
1	41	1	1	1	1	1	1

Wire Schedule (Power)
(SH_TI_WireSchedule(Power))

Header3
Text Size = 0.09
Font = arialbd / 217

Body2
Text Size = 0.07
Font = arialbd / 217

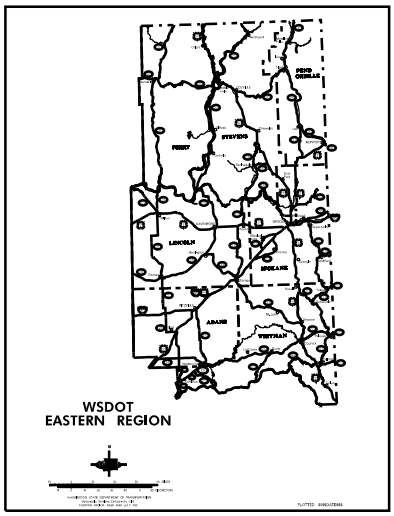
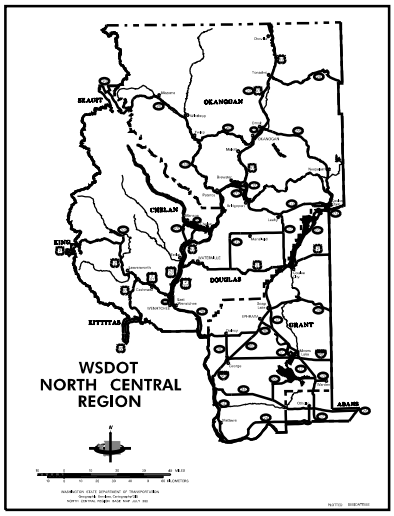
1 0
18 Cell

WIRING SCHEDULE						SERVICE NO.		
△ NO.	CONDUIT SIZE	P / V DETECT 2C(S)	E. V. DETECT 3C(S)	VEH HEAD 5C	PED HEAD 5C	POWER ILLUM #6	POWER #2	6PR COMM. CABLE
1	41	1	1	1	1	1		

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

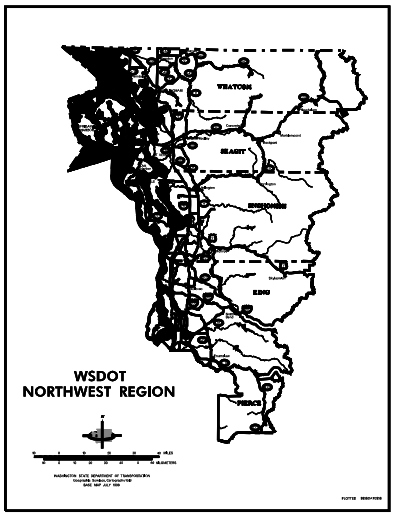
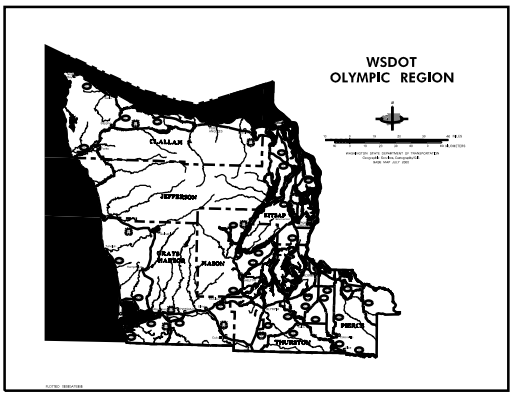
SH VM Sheet Items - Vicinity Maps

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Region Cell ER (SH_VM_RegionCellER) Example drawn at 25% actual size.	0 / 0 0 / Cell	
Region Cell NC (SH_VM_RegionCellNC) Example drawn at 25% actual size.	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

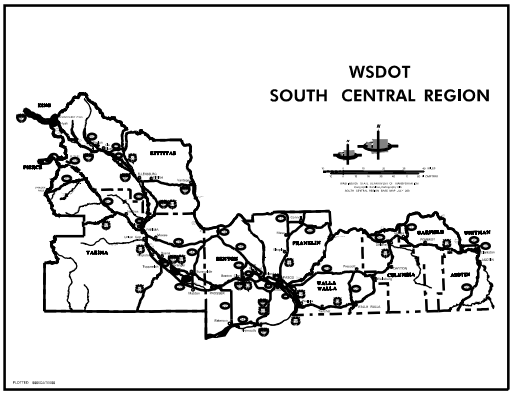
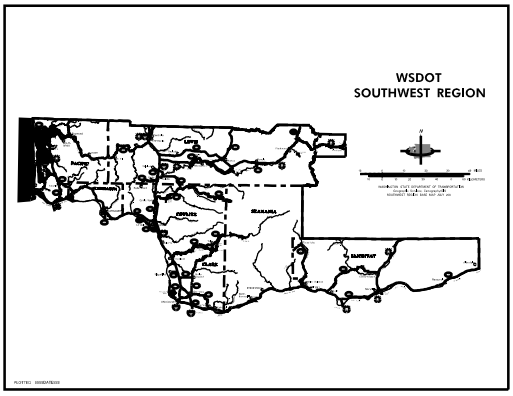
SH VM Sheet Items - Vicinity Maps

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Region Cell NW (SH_VM_RegionCellNW) Example drawn at 25% actual size.	0 / 0 0 / Cell	
Region Cell Olympic (SH_VM_RegionCellOly) Example drawn at 25% actual size.	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

SH VM Sheet Items - Vicinity Maps

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Region Cell SC (SH_VM_RegionCellSC) Example drawn at 25% actual size.	0 / 0 0 / Cell	
Region Cell SW (SH_VM_RegionCellSW) Example drawn at 25% actual size.	0 / 0 0 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

ST BG Structures - Bridges

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Back of Pavement Seat (ST_BG_BackofPvmntSeat)	0 / 0 151 / Line	
Bridge (ST_BG_Bridge)	0 / 6 23 / Line	
Bridge Approach Slab New (ST_BG_BridgeApproachSlabNew)	2 / 0 135 / Line	
Bridge New (ST_BG_BridgeNew)	2 / 0 7 / Line	
Bridge Text (ST_BG_BridgeText) Text Size = 0.07 Font = ariali / 164	0 / 0 23 / Text	*OVERCROSSING*
Bridge Text New (ST_BG_BridgeTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 7 / Text	**OVERCROSSING**
RR Structure (ST_BG_RRStructure)	0 / 6 119 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

ST BG Structures - Bridges

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
RR Structure New (ST_BG_RRStructureNew)	2	0	
	103	Line	
Structure (ST_BG_Structure)	0	5	
	55	Line	
Structure New (ST_BG_StructureNew)	2	0	
	39	Line	
Tunnel (ST_BG_Tunnel)	0	5	
	87	Line	
Tunnel New (ST_BG_TunnelNew)	2	0	
	71	Line	
Tunnel Text (ST_BG_TunnelText) Text Size = 0.07 Font = ariali / 164	0	0	*OVERCROSSING*
	23	Text	
Tunnel Text New (ST_BG_TunnelTextNew) Text Size = 0.07 Font = arialbd / 217	0	0	**OVERCROSSING**
	7	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

ST WA Structures - Walls

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Gabion Wall (ST_WA_GabionWall)	1	Custom	
	55	Line	
Gabion Wall New (ST_WA_GabionWallNew)	0	Custom	
	39	Line	
Noise Wall (ST_WA_NoiseWall)	1	Custom	
	87	Line	
Noise Wall New (ST_WA_NoiseWallNew)	0	Custom	
	71	Line	
Retaining Wall (ST_WA_RetainingWall)	0	Custom	
	23	Line	
Retaining Wall New (ST_WA_RetainingWallNew)	0	Custom	
	7	Line	
Wall Text (ST_WA_WallText)	0	0	*TOP OF WALL*
Text Size = 0.07, Font = ariali / 164	23	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

ST WA Structures - Walls

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Wall Text New (ST_WA_WallTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 7 / Text	TOP OF WALL

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP CN Topography - Contours

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
Cut Line New (TP_CN_CutLineNew) Text Size = 0.06 Font = arialbd / 217	0 | Custom 110 | Line	CUT CUT CUT
Fill Line New (TP_CN_FillLineNew) Text Size = 0.06 Font = arialbd / 217	0 | Custom 142 | Line	FILL FILL FILL
Index Contour (TP_CN_IndexContour)	4 | 3 30 | Line	
Index Contour New (TP_CN_IndexContourNew)	4 | 0 14 | Line	
Index Contour Text New (TP_CN_IndexContourTextNew) Text Size = 0.07 Font = arialbd / 217	0 | 0 14 | Text	13
Index Contours Text (TP_CN_IndexContoursText) Text SIze = 0.07 Font = ariali / 164	0 | 0 30 | Text	*13*
Intermediate Contour (TP_CN_IntermediateContour)	0 | 3 62 | Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP CN Topography - Contours

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Intermediate Contour New (TP_CN_IntermediateContourNew)	0 / 0 46 / Line	
Intermediate Contour Text New (TP_CN_IntermedContourTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 46 / Text	13
Intermediate Contours Text (TP_CN_IntermediateContoursText) Text SIze = 0.07 Font = ariali / 164	0 / 0 62 / Text	13
Spot Elevation (TP_CN_SpotElevation)	0 / 0 94 / Cell	.SE
Spot Elevation New (TP_CN_SpotElevationNew)	0 / 0 78 / Cell	.SEP
Spot Elevation Text New (TP_CN_SpotElevationTextNew) Text SIze = 0.07 Font = arialbd / 217	0 / 0 78 / Text	35
Spot Elevations Text (TP_CN_SpotElevationsText) Text Size = 0.07 Font = ariali / 164	0 / 0 94 / Text	35

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Area Under Construction (TP_MM_AreaUnderConstr)	0 / 0 / 126 / Line	
Bench (TP_MM_Bench)	0 / 2 / 126 / Line	
Bore Hole or Drill Hole (TP_MM_BoreHoleorDrillHole)	1 / 0 / 158 / Cell	R 0.05"
Bore Hole or Drill Hole New (TP_MM_BoreHoleorDrillHoleNew)	1 / 0 / 142 / Cell	
Building 2D (TP_MM_Building2D)	2 / 0 / 126 / Line	
Canal (TP_MM_Canal)	3 / 0 / 126 / Line	
Clear Grub Line New (TP_MM_ClearGrubLineNew)	0 / Custom / 110 / Line	CG CG CG CG CG

Text Size = 0.06
Font = arialbd / 217

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Clear Line New (TP_MM_ClearLineNew)	0 / 110	Custom / Line	
Concrete Slab (TP_MM_ConcreteSlab)	0 / 126	2 / Line	
Concrete Slope Protection (TP_MM_ConcreteSlopeProtection)	0 / 126	0 / Line	
Dam (TP_MM_Dam)	10 / 126	0 / Line	
Deck (TP_MM_Deck)	0 / 126	2 / Line	
Dike (TP_MM_Dike)	10 / 126	0 / Line	
Distance Tie (TP_MM_DistanceTie)	1 / 30	0 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Distance Tie Text (TP_MM_DistanceTieText) Text Size = 0.05 Font = arial / 200	0	0 Text	48'
Dock (TP_MM_Dock)	0	0 Line	
Field Line (TP_MM_FieldLine)	1	3 Line	
Flag Pole (TP_MM_FlagPole)	0	0 Cell	R 0.035"
Foundation (TP_MM_Foundation)	0	2 Line	
Gas Tank (TP_MM_GasTank) Text Size = 0.07 Font = arialt / 164	2	2 Cell	G R 0.07"
GeoTech Instrument (TP_MM_GeoTechInstrument)	0	0 Cell	GTI

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Gravel Parking Area (TP_MM_GravelParkingArea)	0	2	
	62	Line	
Grub Line New (TP_MM_GrubLineNew)	0	Custom	
	110	Line	
Hand Rail (TP_MM_HandRail)	0	2	
	126	Line	
Hedge (TP_MM_Hedge)	0	Custom	
	126	Line	
Mail Box (TP_MM_MailBox) Text Size = 0.07 Font = ariali / 164	1	0	0.077" MB 0.161"
	126	Cell	
Mail Box New (TP_MM_MailBoxNew) Text Size = 0.07 Font = arialbd / 217	1	0	MB
	110	Cell	
Manmade Topography Text (TP_MM_ManmadeTopographyText) Text Size = 0.07 Font = arial / 200	0	0	GABION WALL
	30	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Monitor Well (TP_MM_MonitorWell) Text Size = 0.03 Font = ariali / 164	0	0 Cell	
Monitor Well New (TP_MM_MonitorWellNew) Text Size = 0.03 Font = arialbd / 217	0 142	0 Cell	
Oil Tank (TP_MM_OilTank) Text SIze = 0.07 Font = ariali / 164	2 126	2 Cell	R 0.07"
Orchard Or Vineyard (TP_MM_OrchardOrVineyard)	1 126	Custom Line	
Patio (TP_MM_Patio)	0 126	2 Line	
Paved Area (TP_MM_PavedArea)	0 94	2 Line	
Paved Parking Area (TP_MM_PavedParkingArea)	0 94	2 Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Piezometer (TP_MM_Piezometer) Text Size = 0.03 Font = ariali / 164	0	0 158 Cell	R 0.05"
Piezometer New (TP_MM_PiezometerNew) Text Size = 0.03 Font = arialbd / 217	0	0 142 Cell	
Piling (TP_MM_Piling)	0	0 126 Cell	0.063" R 0.025" 0.125"
Pipe (TP_MM_Pipe)	0	3 126 Line	
Post Metal (TP_MM_PostMetal)	0	0 126 Cell	R 0.02"
Post Wood (TP_MM_PostWood)	0	0 126 Cell	0.0033"
Quarry Boundary (TP_MM_QuarryBndry)	1	3 126 Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Quarry Symbol (TP_MM_QuarrySymb)	1	0	
	126	Cell	
Reservoir (TP_MM_Reservoir)	3	0	
	126	Line	
Rip Rap Edge (TP_MM_RipRapEdge)	0	0	
	126	Line	
RR Center Tracks (TP_MM_RRCenterTracks)	2	Custom	
	62	Line	
RR Center Tracks New (TP_MM_RRCenterTracksNew)	2	Custom	
	46	Line	
RR Text (TP_MM_RRText) Text Size = 0.05 Font = arial / 200	0	0	BNSF RAILWAY
	62	Text	
Ruins 2D (TP_MM_Ruins2D)	2	0	
	126	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

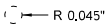
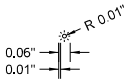
TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Stair (TP_MM_Stair)	0	2	
	126	Line	
Structure (TP_MM_Structure)	2	0	
	126	Line	
Tank (TP_MM_Tank) Text Size = 0.07 Font = ariali / 164	0	0	'T R 0.07"
	126	Cell	
Tank Line (TP_MM_TankLine)	2	2	
	126	Line	
Trail (TP_MM_Trail)	0	0	
	126	Line	
Vent Grate (TP_MM_VentGrate)	0	0	
	126	Line	
Water Tank (TP_MM_WaterTank) Text Size = 0.07 Font = ariali / 164	2	2	'W R 0.07"
	126	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

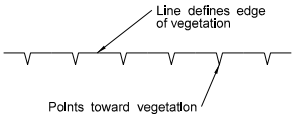
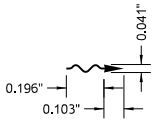
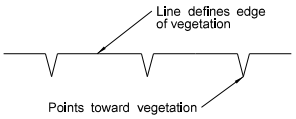
TP MM Topography - Manmade

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Well (TP_MM_Well)	0 / 2 / 126 / Cell	
Yard Light (TP_MM_YardLight)	0 / 0 / 126 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP NT Topography - Natural

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Brush Line (TP_NT_BrushLine)	0	Custom	
	30	Line	
Flow Arrow (TP_NT_FlowArrow)	2	0	
	30	Cell	
Forest (TP_NT_Forest)	0	Custom	
	94	Line	
High Water Line (TP_NT_HighWaterLine)	3	0	
	30	Line	
Intermittent Stream (TP_NT_IntermittentStream)	0	0	
	94	Line	
Lake Edge (TP_NT_LakeEdge)	3	0	
	126	Line	
Large Body of Water Edge (TP_NT_LargeBodyofWaterEdge)	3	0	
	126	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP NT Topography - Natural

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Marsh Edge (TP_NT_MarshEdge)	3	2	
	62	Line	
Natural Topography Text (TP_NT_NaturalTopographyText)			*FIR TREE*
Text Size = 0.07 Font = arial / 164	0	0	
	30	Text	
Obstruction (TP_NT_Obstruction)			
	1	0	
	18	Line	
Pond Bottom (TP_NT_PondBottom)			
	3	0	
	126	Line	
Pond Edge (TP_NT_PondEdge)			
	3	0	
	126	Line	
River Edge (TP_NT_RiverEdge)			
	3	0	
	126	Line	
Stream Non Scalable (TP_NT_StreamNonScalable)			
	3	0	
	126	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP NT Topography - Natural

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Stream Scaleable Bottom (TP_NT_StreamScaleableBottom)	3	0	
	126	Line	
Stream Scaleable Edge (TP_NT_StreamScaleableEdge)	3	0	
	126	Line	
Stump (TP_NT_Stump)	0	0	
	30	Cell	
Thalweg (TP_NT_Thalweg)	1	0	
	17	Line	
Tidal Shoreline (TP_NT_TidalShoreline)	3	0	
	126	Line	
Tree By Center (TP_NT_TreeByCenter)	0	0	R 0.025"
	94	Cell	
Tree Line (TP_NT_TreeLine)	0	Custom	Line defines edge of vegetation; Points toward vegetation
	94	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TP NT Topography - Natural

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Water Body Shading (TP_NT_WaterBodyShading)	0 / 0 112 / Line	
Water Pond Lake Res Text (TP_NT_WaterPondLakeResText) Text Size = 0.07 Font = arial / 200	0 / 0 126 / Text	GREEN RIVER
Water Tidal Shore Large Body Text (TP_NT_WaterTidalShoreLgBodyText) Text SIze = 0.1 Font = arial / 200	0 / 0 126 / Text	BUDD INLET

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

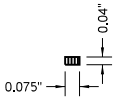
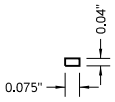
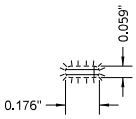
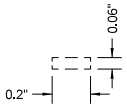
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Conduit and Wiring (TR_IL_ConduitandWiring)	0	6	
	86	Line	
Conduit and Wiring New (TR_IL_ConduitandWiringNew)	2	6	
	70	Line	
Construction Note Flag (TR_IL_ConstructionNoteFlag) Text Size = 0.07 Font = arialbd / 217	0	0	0.1"
	6	Cell	
Controller Cabinet (TR_IL_ControllerCabinet)	0	0	0.2"
	22	Cell	
Controller Cabinet New (TR_IL_ControllerCabinetNew)	2	0	
	6	Cell	
Electrical Service Cab (TR_IL_ElectricalServiceCab)	0	0	0.147" 0.32"
	22	Cell	
Electrical Service Cab New (TR_IL_ElectricalServiceCabNew)	2	0	
	6	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Expansion Fit AX DX New (TR_IL_ExpanFitAXDXNew)	2 / 0 134 / Cell	
Expansion Fit DX New (TR_IL_ExpanFitDXNew)	2 / 0 134 / Cell	
Fluorescent Light (TR_IL_FluorescentLight)	0 / 0 150 / Cell	
Illumination Text (TR_IL_IllumText) Text Size = 0.07 Font = ariali / 164	0 / 0 22 / Text	*PVC CONDUIT*
Illumination Text New (TR_IL_IllumTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 6 / Text	**PVC CONDUIT**
Junction Box Aerial (TR_IL_JBoxAerial)	0 / 0 22 / Cell	
Junction Box Aerial New (TR_IL_JBoxAerialNew)	2 / 0 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Junction Box Nema (TR_IL_JBoxNema)	0 / 0 / 22 / Cell	0.12"
Junction Box Nema New (TR_IL_JBoxNemaNew)	2 / 0 / 6 / Cell	
Junction Box Type 1 (TR_IL_JBox1)	0 / 0 / 22 / Cell	0.12"
Junction Box Type 1 New (TR_IL_JBox1New)	2 / 0 / 6 / Cell	
Junction Box Type 2 (TR_IL_JBox2)	0 / 0 / 22 / Cell	
Junction Box Type 2 New (TR_IL_JBox2New)	2 / 0 / 6 / Cell	
Junction Box Type 3 (TR_IL_JBox3)	0 / 0 / 22 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

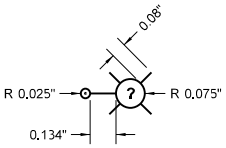
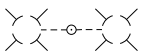
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Junction Box Type 4 (Traffic-bearing) (TR_IL_JBox4(Traffic-bearing))	0 / 0 22 / Cell	
Junction Box Type 4 (Traffic-bearing) New (TR_IL_JBox4(Traffic-bearing)New)	2 / 0 6 / Cell	
Junction Box Type 5 (Traffic-bearing) (TR_IL_JBox5(Traffic-bearing))	0 / 0 22 / Cell	
Junction Box Type 5 (Traffic-bearing) New (TR_IL_JBox5(Traffic-bearing)New)	2 / 0 6 / Cell	
Junction Box Type 6 (Traffic-bearing) (TR_IL_JBox6(Traffic-bearing))	0 / 0 22 / Cell	
Junction Box Type 6 (Traffic-bearing) New (TR_IL_JBox6(Traffic-bearing)New)	2 / 0 6 / Cell	
Junction Box Type 7 (No lock) (TR_IL_JBox7(NoLock))	0 / 0 22 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

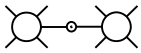
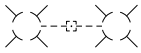
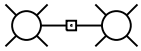
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Junction Box Type 7 (No lock) New (TR_IL_JBox7(NoLock)New)	2 / 0 6 / Cell	
Junction Box Type 8 (With lock) (TR_IL_JBox8(WithLock))	0 / 0 22 / Cell	
Junction Box Type 8 (With lock) New (TR_IL_JBox8(WithLock)New)	2 / 0 6 / Cell	
Junction Unknown (TR_IL_JBoxUnknown) Text Size = 0.07 Font = ariali / 164	0 / 0 22 / Cell	
Light Pole (TR_IL_LightPole)	0 / 0 54 / Cell	
Light Standard Cell With Number New* (TR_IL_LightStdCellWithNumberNew) Sized for a 100 scale drawing. Text Size = 0.07 Font = arialbd / 217	2 / 0 38 / Cell	
Light Standard Double Metal* (TR_IL_LightStdDblMetal) Sized for a 100 scale drawing.	0 / 0 54 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

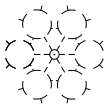
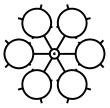
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Light Standard Double Metal New* (TR_IL_LightStdDblMetalNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Light Standard Double Timber* (TR_IL_LightStdDblTimber) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Double Timber New* (TR_IL_LightStdDblTimberNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Light Standard Generic* (TR_IL_LightStdGeneric) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Generic New* (TR_IL_LightStdGenericNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Light Standard Quad Metal* (TR_IL_LightStdQuadMetal) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Quad Metal New* (TR_IL_LightStdQuadMetalNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

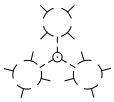
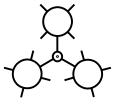
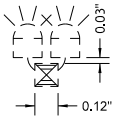
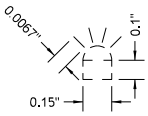
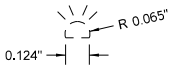
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Light Standard Single Metal* (TR_IL_LightStdSnglMetal) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Single Metal New* (TR_IL_LightStdSnglMetalNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Light Standard Single Timber* (TR_IL_LightStdSnglTimber) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Single Timber New* (TR_IL_LightStdSnglTimberNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Light Standard Six Metal* (TR_IL_LightStdSixMetal) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Six Metal New* (TR_IL_LightStdSixMetalNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Light Standard Timber Temp New* (TR_IL_LightStdTimberTempNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

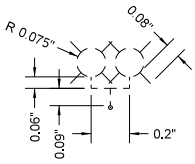
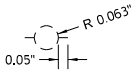
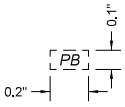
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Light Standard Tri Metal* (TR_IL_LightStdTriMetal) Sized for a 100 scale drawing.	0 / 0 54 / Cell	
Light Standard Tri Metal New* (TR_IL_LightStdTriMetalNew) Sized for a 100 scale drawing.	2 / 0 38 / Cell	
Luminaire Double Underdeck (TR_IL_LuminaireDblUnderdeck)	0 / 0 150 / Cell	
Luminaire Double Underdeck New (TR_IL_LuminaireDblUnderdeckNew)	2 / 0 134 / Cell	
Luminaire Underdeck (TR_IL_LuminaireUnderdeck)	0 / 0 150 / Cell	
Luminaire Underdeck New (TR_IL_LuminaireUnderdeckNew)	2 / 0 134 / Cell	
Navigation Light (TR_IL_NavigationLight)	0 / 0 150 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

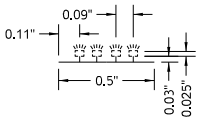
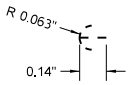
TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Navigation Light New (TR_IL_NavigationLightNew)	2 / 0 / 134 / Cell	
Pitchfork Light (TR_IL_PitchforkLight)	0 / 0 / 150 / Cell	
Pitchfork Light New (TR_IL_PitchforkLightNew)	2 / 0 / 134 / Cell	
Pole (TR_IL_Pole)	0 / 0 / 118 / Cell	
Pole New (TR_IL_PoleNew)	2 / 0 / 102 / Cell	
Pole Note Flag (TR_IL_PoleNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 / 102 / Cell	
Pull Box (TR_IL_PullBox) Text Size = 0.07 Font = ariali / 164	0 / 0 / 150 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

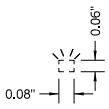
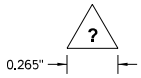
TR IL Traffic - Illumination

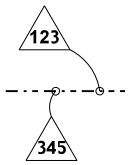
Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Pull Box New (TR_IL_PullBoxNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 134 / Cell	
Sign Light (TR_IL_SignLight)	0 / 0 150 / Cell	
Sign Light New (TR_IL_SignLightNew)	2 / 0 134 / Cell	
Strn Pole Anchor (TR_IL_StrnPoleAnchor)	2 / 0 118 / Cell	
Strn Pole Anchor New (TR_IL_StrnPoleAnchorNew)	2 / 0 102 / Cell	
Timber Pole (TR_IL_TimberPole)	0 / 0 150 / Cell	
Timber Pole New (TR_IL_TimberPoleNew)	2 / 0 134 / Cell	

S5.05 Standard Symbols (cont.)

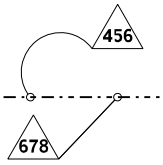
Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR IL Traffic - Illumination

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Wallpack Light (TR_IL_WallpackLight)	0 / 0 / 150 / Cell	
Wallpack Light New (TR_IL_WallpackLightNew)	2 / 0 / 134 / Cell	
Wire Note Flag (TR_IL_WireNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 / 6 / Cell	



Acceptable Leader:
Level: TR_IL_IlluminationTextNew
Short, noticable arc
Terminates at element intersection
0.02 radius circle at intersection

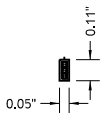
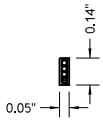


Unacceptable Leader:
Long straight leader
Large sweep arc
Terminates at circle

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
3 Signal Head Left New (TR_SG_3SignalHeadLeftNew)	2	0	
	6	Cell	
3 Signal Head Mast Left New (TR_SG_3SignalHeadMastLeftNew)	2	0	
	6	Cell	
3 Signal Head Mast New (TR_SG_3SignalHeadMastNew)	2	0	
	6	Cell	
3 Signal Head New (TR_SG_3SignalHeadNew)	2	0	
	6	Cell	
4 Signal Head Mast New (TR_SG_4SignalHeadMastNew)	2	0	
	6	Cell	
4 Signal Head New (TR_SG_4SignalHeadNew)	2	0	
	6	Cell	
Conduit and Wiring (TR_SG_ConduitandWiring)	0	6	
	54	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Conduit and Wiring New (TR_SG_ConduitandWiringNew)	2 / 6 38 / Line	
Construction Note Flag (TR_SG_ConstructionNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 6 / Cell	0.1"
Controller Cabinet (TR_SG_ControllerCabinet)	0 / 0 54 / Cell	0.2"
Controller Cabinet New (TR_SG_ControllerCabinetNew)	2 / 0 38 / Cell	
Detection Loop Diamond* (TR_SG_DetLoopDiamond) Sized for a 50 scale drawing.	0 / 0 150 / Cell	
Detection Loop Diamond New* (TR_SG_DetLoopDiamondNew) Sized for a 50 scale drawing.	2 / 0 134 / Cell	
Detection Loop Type 1 6x15* (TR_SG_DetLoopType16x15) Sized for a 40 scale drawing.	0 / 0 150 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

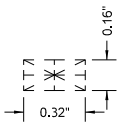
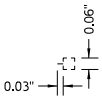
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Detection Loop Type 1 6x15 New* (TR_SG_DetLoopType16x15New) Sized for a 40 scale drawing.	2 / 0 134 / Cell	
Detection Loop Type 1 6x30* (TR_SG_DetLoopType16x30) Sized for a 40 scale drawing.	0 / 0 150 / Cell	
Detection Loop Type 1 6x30 New* (TR_SG_DetLoopType16x30New) Sized for a 40 scale drawing.	2 / 0 134 / Cell	
Detection Loop Type 1 6x50* (TR_SG_DetLoopType16x50) Sized for a 40 scale drawing.	0 / 0 150 / Cell	
Detection Loop Type 1 6x50 New* (TR_SG_DetLoopType16x50New) Sized for a 40 scale drawing.	2 / 0 134 / Cell	
Detection Loop Type 2 6x6* (TR_SG_DetLoopType26x6) Sized for a 40 scale drawing.	0 / 0 150 / Cell	
Detection Loop Type 2 6x6 New* (TR_SG_DetLoopType26x6New) Sized for a 40 scale drawing.	2 / 0 134 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

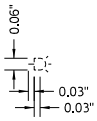
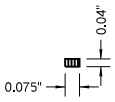
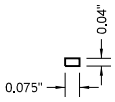
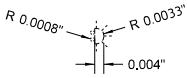
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Detection Loop Type 3* (TR_SG_DetLoopType3) Sized for a 40 scale drawing.	0	0	
	150	Cell	
Detection Loop Type 3 New* (TR_SG_DetLoopType3New) Sized for a 40 scale drawing.	2	0	
	134	Cell	
Detection Loop Type 3a* (TR_SG_DetLoopType3a) Sized for a 40 scale drawing.	0	0	
	150	Cell	
Detection Loop Type 3a New* (TR_SG_DetLoopType3aNew) Sized for a 40 scale drawing.	2	0	
	134	Cell	
Elect Service Cabinet (TR_SG_ElectServiceCabinet)	0	0	
	54	Cell	
Elect Service Cabinet New (TR_SG_ElectServiceCabinetNew)	2	0	
	38	Cell	
Emergency Preem Point Detail (TR_SG_EmergPreemptDet)	0	0	
	22	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

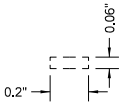
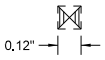
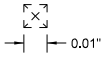
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Emergency Preem Point Detail New (TR_SG_EmergPreemptDetNew)	2 / 0 / 6 / Cell	
Emergency Preem Point Indicator (TR_SG_EmergPreemptIndicator)	0 / 0 / 22 / Cell	
Emergency Preem Point Indicator New (TR_SG_EmergPreemptIndicatorNew)	2 / 0 / 6 / Cell	
Expansion Fit AX DX New (TR_SG_ExpanFitAXDXNew)	2 / 0 / 38 / Cell	
Expansion Fit DX New (TR_SG_ExpanFitDXNew)	2 / 0 / 38 / Cell	
Flashing Beacon (TR_SG_FlashingBeacon)	0 / 0 / 22 / Cell	
Flashing Beacon New (TR_SG_FlashingBeaconNew)	2 / 0 / 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Junction Box Aerial (TR_SG_JBoxAerial)	0 / 0 / 54 / Cell	
Junction Box Aerial New (TR_SG_JBoxAerialNew)	2 / 0 / 38 / Cell	
Junction Box Nema (TR_SG_JBoxNema)	0 / 0 / 54 / Cell	
Junction Box Nema New (TR_SG_JBoxNemaNew)	2 / 0 / 38 / Cell	
Junction Box Type 1 (TR_SG_JBox1)	0 / 0 / 54 / Cell	
Junction Box Type 1 New (TR_SG_JBox1New)	2 / 0 / 38 / Cell	
Junction Box Type 2 (TR_SG_JBox2)	0 / 0 / 54 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Junction Box Type 2 New (TR_SG_JBox2New)	2 / 0 / 38 / Cell	
Junction Box Type 3 (TR_SG_JBox3)	0 / 0 / 54 / Cell	
Junction Box Type 4 (Traffic-bearing) (TR_SG_JBox4(Traffic-bearing))	0 / 0 / 54 / Cell	
Junction Box Type 4 (Traffic-bearing) New (TR_SG_JBox4(Traffic-bearing)New)	2 / 0 / 38 / Cell	
Junction Box Type 5 (Traffic-bearing) (TR_SG_JBox5(Traffic-bearing))	0 / 0 / 54 / Cell	
Junction Box Type 5 (Traffic-bearing) New (TR_SG_JBox5(Traffic-bearing)New)	2 / 0 / 38 / Cell	
Junction Box Type 6 (Traffic-bearing) (TR_SG_JBox6(Traffic-bearing))	0 / 0 / 54 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

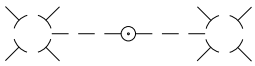
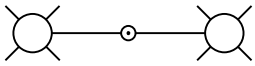
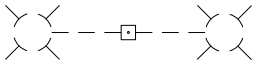
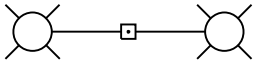
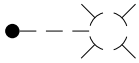
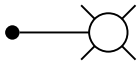
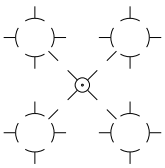
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Junction Box Type 6 (Traffic-bearing) New (TR_SG_JBox6(Traffic-bearing)New)	2	0	
	38	Cell	
Junction Box Type 7 (No lock) (TR_SG_JBox7(NoLock))	0	0	
	54	Cell	
Junction Box Type 7 (No lock) New (TR_SG_JBox7(NoLock)New)	2	0	
	38	Cell	
Junction Box Type 8 (With lock) (TR_SG_JBox8(WithLock))	0	0	
	54	Cell	
Junction Box Type 8 (With lock) New (TR_SG_JBox8(WithLock)New)	2	0	
	38	Cell	
Junction Box Unknown (TR_SG_JBoxUnknown) Text Size = 0.07 Font = ariali / 164	0	0	
	54	Cell	
Light Standard Cell With Number New* (TR_SG_LightStdCellWithNumberNew) Sized for a 40 scale drawing. Text Size = 0.07 Font = arialbd / 217	2	0	
	70	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

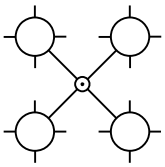
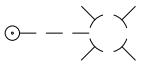
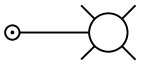
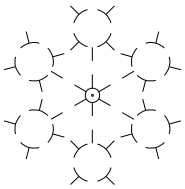
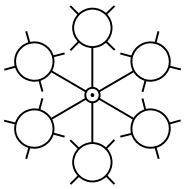
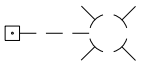
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Light Standard Double Metal* (TR_SG_LightStdDblMetal) Sized for a 40 scale drawing.	0 / 0 86 / Cell	
Light Standard Double Metal New* (TR_SG_LightStdDblMetalNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Double Timber* (TR_SG_LightStdDblTimber) Sized for a 40 scale drawing.	0 / 0 86 / Cell	
Light Standard Double Timber New* (TR_SG_LightStdDblTimberNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Generic* (TR_SG_LightStdGeneric) Sized for a 40 scale drawing.	0 / 0 86 / Cell	
Light Standard Generic New* (TR_SG_LightStdGenericNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Quad Metal* (TR_SG_LightStdQuadMetal) Sized for a 40 scale drawing.	0 / 0 86 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

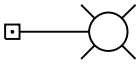
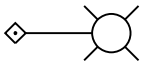
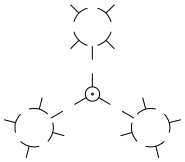
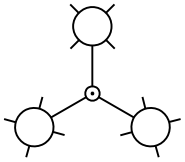
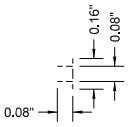
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Light Standard Quad Metal New* (TR_SG_LightStdQuadMetalNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Single Metal* (TR_SG_LightStdSnglMetal) Sized for a 40 scale drawing.	0 / 0 86 / Cell	
Light Standard Single Metal New* (TR_SG_LightStdSnglMetalNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Six Metal* (TR_SG_LightStdSixMetal) Sized for a 40 scale drawing.	0 / 0 86 / Cell	
Light Standard Six Metal New* (TR_SG_LightStdSixMetalNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Timber Metal* (TR_SG_LightStdSnglTimber) Sized for a 40 scale drawing.	0 / 0 86 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

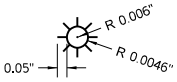
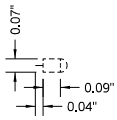
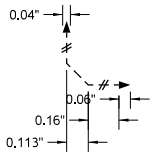
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Light Standard Timber Metal New* (TR_SG_LightStdSnglTimberNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Timber Temp New* (TR_SG_LightStdTimberTempNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Light Standard Tri Metal* (TR_SG_LightStdTriMetal) Sized for a 40 scale drawing.	0 / 0 86 / Cell	
Light Standard Tri Metal New* (TR_SG_LightStdTriMetalNew) Sized for a 40 scale drawing.	2 / 0 70 / Cell	
Mast Arm Sign (TR_SG_MastArmSign)	0 / 0 22 / Cell	
Mast Arm Sign New (TR_SG_MastArmSignNew)	2 / 0 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

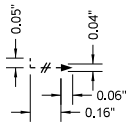
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Mast Arm Tenon New (TR_SG_MastArmTenonNew)	2 / 0 / 6 / Cell	
Pedestrian Light New (TR_SG_PedestrianLightNew)	2 / 0 / 102 / Cell	
Pedestrian PushButton (TR_SG_PedPushButton)	0 / 0 / 118 / Cell	
Pedestrian PushButton New (TR_SG_PedPushButtonNew)	2 / 0 / 102 / Cell	
Pedestrian PushButton Post (TR_SG_PedPushButtonPost)	0 / 0 / 118 / Cell	
Pedestrian PushButton PostNew (TR_SG_PedPushButtonPostNew)	2 / 0 / 102 / Cell	
Pedestrian Signal Head Dbl (TR_SG_PedSignalHeadDbl)	1 / 0 / 118 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

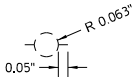
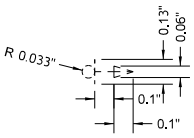
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Pedestrian Signal Head Dbl New (TR_SG_PedSignalHeadDblNew)	2 / 0 / 102 / Cell	
Pedestrian Signal Head L (TR_SG_PedSignalHeadL)	1 / 0 / 118 / Cell	
Pedestrian Signal Head L New (TR_SG_PedSignalHeadLNew)	2 / 0 / 102 / Cell	
Pedestrian Signal Head R (TR_SG_PedSignalHeadR)	1 / 0 / 118 / Cell	
Pedestrian Signal Head R New (TR_SG_PedSignalHeadRNew)	2 / 0 / 102 / Cell	
Pedestrian Signal Head ST (TR_SG_PedSignalHeadST)	1 / 0 / 118 / Cell	
Pedestrian Signal Head ST New (TR_SG_PedSignalHeadSTNew)	2 / 0 / 102 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

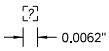
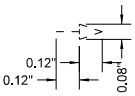
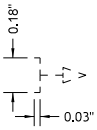
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Pole (TR_SG_Pole)	0 / 0 / 54 / Cell	
Pole New (TR_SG_PoleNew)	2 / 0 / 38 / Cell	
Pole Note Flag (TR_SG_PoleNoteFlag) Text Size = 0.07 Font = ariali / 164	0 / 0 / 6 / Cell	
Ramp Meter Signal (TR_SG_RampMeterSignal)	0 / 0 / 22 / Cell	
Ramp Meter Signal LT (TR_SG_RampMeterSignalLT)	0 / 0 / 22 / Cell	
Ramp Meter Signal LT New (TR_SG_RampMeterSignalLTNew)	2 / 0 / 6 / Cell	
Ramp Meter Signal New (TR_SG_RampMeterSignalNew)	2 / 0 / 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

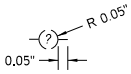
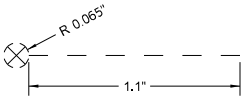
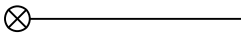
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Ramp Meter Signal RT (TR_SG_RampMeterSignalRT)	0	0	
	22	Cell	
Ramp Meter Signal RT New (TR_SG_RampMeterSignalRTNew)	2	0	
	6	Cell	
Signal Box Unknown (TR_SG_SignalBoxUnknown)	0	0	
	54	Cell	
Signal Head (TR_SG_SignalHead)	0	0	
	22	Cell	
Signal Head Future New (TR_SG_SignalHeadFutureNew)	2	0	
	6	Cell	
Signal Head Horizontal (TR_SG_SignalHeadHoriz)	0	0	
	22	Cell	
Signal Head Horizontal New (TR_SG_SignalHeadHorizNew)	2	0	
	6	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

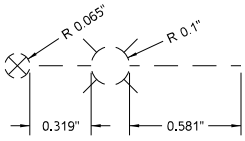
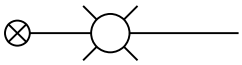
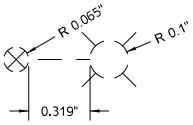
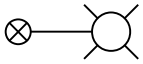
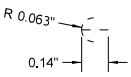
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Signal Head New (TR_SG_SignalHeadNew)	2 / 0 / 6 / Cell	
Signal Loop Unknown* (TR_SG_SignalLoopUnknown) Sized for a 40 scale drawing.	0 / 0 / 22 / Cell	
Signal Pole Unknown (TR_SG_SignalPoleUnknown) Text Size = 0.07 Font = ariali / 164	0 / 0 / 22 / Cell	
Signal Standard Type 1 or 4 (TR_SG_SignalStdType1or4)	0 / 0 / 22 / Cell	
Signal Standard Type 1 or 4 New (TR_SG_SignalStdType1or4New)	2 / 0 / 6 / Cell	
Signal Standard Type 2 (TR_SG_SignalStdType2)	0 / 0 / 22 / Cell	
Signal Standard Type 2 New (TR_SG_SignalStdType2New)	2 / 0 / 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

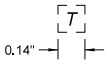
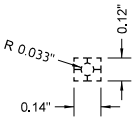
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Signal Standard Type 3 (TR_SG_SignalStdType3)	0 / 0 22 / Cell	
Signal Standard Type 3 New (TR_SG_SignalStdType3New)	2 / 0 6 / Cell	
Signal Standard Type 5 (TR_SG_SignalStdType5)	0 / 0 22 / Cell	
Signal Standard Type 5 New (TR_SG_SignalStdType5New)	2 / 0 6 / Cell	
Signals Text (TR_SG_SignalsText) Text Size = 0.07 Font = ariali / 164	0 / 0 22 / Text	*PVC CONDUIT*
Signals Text New (TR_SG_SignalsTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 6 / Text	**PVC CONDUIT**
Strn Pole Anchor (TR_SG_StrnPoleAnchor)	0 / 0 22 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

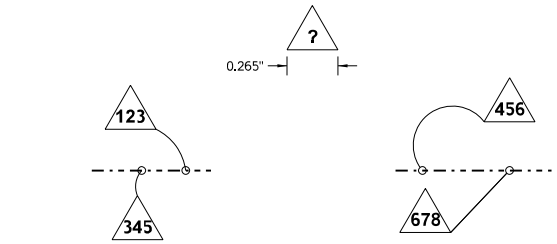
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Strn Pole Anchor New (TR_SG_StrnPoleAnchorNew)	6	2 / Cell	
Timber Pole (TR_SG_TimberPole)	22	0 / Cell	
Timber Pole New (TR_SG_TimberPoleNew)	6	2 / Cell	
Transformer (TR_SG_Transformer) Text Size = 0.07 Font = ariali / 164	54	0 / Cell	
Transformer New (TR_SG_TransformerNew) Text Size = 0.07 Font = arialbd / 217	38	2 / Cell	
Utility Company Pedestal (TR_SG_UtilityCompanyPedestal)	54	1 / Cell	
Utility Company Pedestal New (TR_SG_UtilityCompanyPedestalNew)	38	2 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

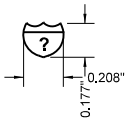
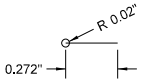
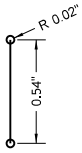
TR SG Traffic - Signals

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Wire Note Flag (TR_SG_WireNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 6 / Cell	 Acceptable Leader: Level: TR_IL_IlluminationTextNew Short, noticable arc Terminates at element intersection 0.02 radius circle at intersection Unacceptable Leader: Long straight leader Large sweep arc Terminates at circle

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

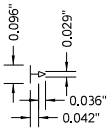
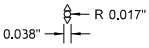
TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Barricade (TR_SN_Barricade)	1 / 0 / 22 / Line	
Construction Signs (TR_SN_ConstructionSigns)	0 / 0 / 38 / Line	
Guide Signs (TR_SN_GuideSigns)	0 / 0 / 38 / Line	
Interstate Shield (TR_SN_InterstateShield) Text Size = 0.07 Font = arialbd / 217	2 / 0 / 54 / Cell	
Monotube Cantilever (TR_SN_MonotubeCantilever)	0 / 0 / 86 / Cell	
Monotube Cantilever New (TR_SN_MonotubeCantileverNew)	2 / 0 / 70 / Cell	
Monotube Sign Bridge (TR_SN_MonotubeSignBridge)	0 / 0 / 86 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

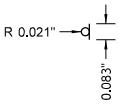
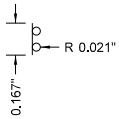
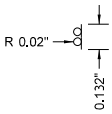
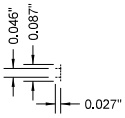
TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Monotube Sign Bridge New (TR_SN_MonotubeSignBridgeNew)	2	0	
	70	Cell	
Overhead Sign (TR_SN_OverheadSign)	0	0	
	22	Cell	
Overhead Sign New (TR_SN_OverheadSignNew)	0	0	
	6	Cell	
Regulatory Signs (TR_SN_RegulatorySigns)	0	0	
	38	Line	
Sequential Arrow Sign Both New (TR_SN_SeqArrowSignBothNew)	0	0	
	6	Cell	
Sequential Arrow Sign Left New (TR_SN_SeqArrowSignLtNew)	0	0	
	6	Cell	
Sequential Arrow Sign Right New (TR_SN_SeqArrowSignRtNew)	0	0	
	6	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

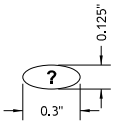
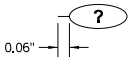
TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Sign (TR_SN_Sign)	1 / 0 / 22 / Cell	
Sign Billboard Multi Post (TR_SN_SignBBoardMultiPost)	0 / 0 / 118 / Cell	
Sign Billboard Single Post (TR_SN_SignBBoardSnglPost)	0 / 0 / 118 / Cell	
Sign Double Post (TR_SN_SignDblePost)	0 / 0 / 118 / Cell	
Sign Double Post New (TR_SN_SignDblePostNew)	0 / 0 / 102 / Cell	
Sign Flush Wall (TR_SN_SignFlushWall)	0 / 0 / 22 / Cell	
Sign Flush Wall New (TR_SN_SignFlushWallNew)	0 / 0 / 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

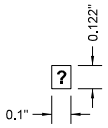
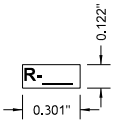
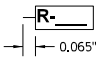
TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Sign Four Post (TR_SN_SignFourPost)	0 / 0 118 / Cell	
Sign From Wall (TR_SN_SignFromWall)	0 / 0 22 / Cell	
Sign From Wall New (TR_SN_SignFromWallNew)	0 / 0 6 / Cell	
Sign New (TR_SN_SignNew)	1 / 0 6 / Cell	
Sign Note Flag (TR_SN_SignNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	
Sign Note Flag Left (TR_SN_SignNoteFlagLt) Text Size = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	
Sign Note Flag Right (TR_SN_SignNoteFlagRt) Text Size = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Sign Relocation Note Flag (TR_SN_SignRelocationNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	
Sign Removal Note Flag (TR_SN_SignRemovalNoteFlag) Text Size = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	
Sign Removal Note Flag Left (TR_SN_SignRemovalNoteFlagLt) Text SIze = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	
Sign Removal Note Flag Right (TR_SN_SignRemovalNoteFlagRt) Text Size = 0.07 Font = arialbd / 217	0 / 0 134 / Cell	
Sign Single Post (TR_SN_SignSnglPost)	0 / 0 118 / Cell	
Sign Single Post New (TR_SN_SignSnglPostNew)	0 / 0 102 / Cell	
Sign Triple Post (TR_SN_SignTriplePost)	0 / 0 118 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

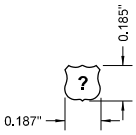
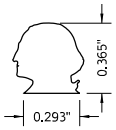
TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Sign Triple Post New (TR_SN_SignTriplePostNew)	0	0	
	102	Cell	
Signing Text (TR_SN_SigningText) Text Size = 0.07 Font = arial / 164	0	0	*SR 101*
	22	Text	
Signing Text New (TR_SN_SigningTextNew) Text Size = 0.07 Font = arialbd / 217	0	0	**SR 101**
	6	Text	
State Route Shield (TR_SN_StateRouteShield) Text Size = 0.07 Font = arialbd / 217	1	0	0.116" ? 0.232"
	54	Cell	
Truss Cantilever (TR_SN_TrussCantilever)	0	0	R 0.02" 0.024" 0.272"
	86	Cell	
Truss Cantilever New (TR_SN_TrussCantileverNew)	2	0	
	70	Cell	
Truss Sign Bridge (TR_SN_TrussSignBridge)	0	0	R 0.02" 0.54" 0.054"
	86	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

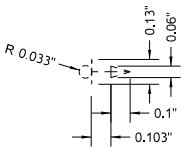
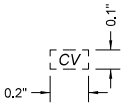
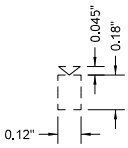
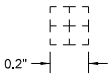
TR SN Traffic - Signing

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Truss Sign Bridge New (TR_SN_TrussSignBridgeNew)	2 / 0 / 70 / Cell	
US Route Shield (TR_SN_USRouteShield) Text Size = 0.07 Font = arialbd / 217	1 / 0 / 54 / Cell	
Warning Signs (TR_SN_WarningSigns)	0 / 0 / 38 / Line	
Washington Shield (TR_SN_WashingtonShield) Text Size = 0.07 Font = arialbd / 217	1 / 0 / 54 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Advanced Warning Sign (TR_TS_AdvancedWarningSign)	0 / 0 / 86 / Cell	
Advanced Warning Sign New (TR_TS_AdvancedWarningSignNew)	2 / 0 / 70 / Cell	
Cable Vault (TR_TS_CableVault) Text Size = 0.07 Font = ariali / 164	0 / 0 / 54 / Cell	
Cable Vault New (TR_TS_CableVaultNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 / 38 / Cell	
CCTV Camera (TR_TS_CCTVCamera)	0 / 0 / 150 / Cell	
CCTV Camera New (TR_TS_CCTVCameraNew)	2 / 0 / 134 / Cell	
CCTV Control Cabinet (TR_TS_CCTVControlCabinet)	0 / 0 / 150 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

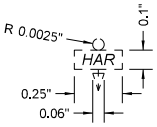
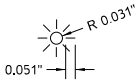
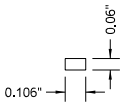
TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
CCTV Control Cabinet New (TR_TS_CCTVControlCabinetNew)	2 / 0 / 134 / Cell	
Communications Hub (TR_TS_CommunicationsHub) Text Size = 0.07 Font = arial / 164	0 / 0 / 54 / Cell	CH 0.1" 0.2"
Communications Hub New (TR_TS_CommunicationsHubNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 / 38 / Cell	CH
Conduit and Wiring TS (TR_TS_ConduitandWiringTS)	0 / 6 / 86 / Line	
Conduit and Wiring TS New (TR_TS_ConduitandWiringTSNew)	2 / 6 / 70 / Line	
Data Station (TR_TS_DataStation)	0 / 0 / 54 / Cell	0.2"
Data Station New (TR_TS_DataStationNew)	2 / 0 / 38 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
HAR Control Cabinet (TR_TS_HARControlCabinet)	0 / 0 86 / Cell	
HAR Control Cabinet New (TR_TS_HARControlCabinetNew)	2 / 0 70 / Cell	
HAR Sign (TR_TS_HARSign) Text Size = 0.06 Font = ariali / 164	0 / 0 86 / Cell	
HAR Sign New (TR_TS_HARSignNew) Text Size = 0.06 Font = arialbd / 217	2 / 0 70 / Cell	
HAR Transmitter (TR_TS_HARTransmitter)	0 / 0 86 / Cell	
HAR Transmitter New (TR_TS_HARTransmitterNew)	2 / 0 70 / Cell	
Induction Loop Type 2 Mod (TR_TS_InductionLoopType2Mod)	0 / 0 54 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Induction Loop Type 2 Mod New (TR_TS_InductionLoopType2ModNew)	2 / 0 / 38 / Cell	
Junction Box Aerial (TR_TS_JBoxAerial)	0 / 0 / 22 / Cell	0.06" 0.2"
Junction Box Aerial New (TR_TS_JBoxAerialNew)	2 / 0 / 6 / Cell	
Junction Box Nema (TR_TS_JBoxNema)	0 / 0 / 22 / Cell	0.12"
Junction Box Nema New (TR_TS_JBoxNemaNew)	2 / 0 / 6 / Cell	
Junction Box Type 1 (TR_TS_JBox1)	0 / 0 / 22 / Cell	0.12"
Junction Box Type 1 New (TR_TS_JBox1New)	2 / 0 / 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Junction Box Type 2 (TR_TS_JBox2)	0	0	
	22	Cell	
Junction Box Type 2 New (TR_TS_JBox2New)	2	0	
	6	Cell	
Junction Box Type 4 (Traffic-bearing) (TR_TS_JBox4(Traffic-bearing))	0	0	
	22	Cell	
Junction Box Type 4 (Traffic-bearing) New (TR_TS_JBox4(Traffic-bearing)New)	2	0	
	6	Cell	
Junction Box Type 5 (Traffic-bearing) (TR_TS_JBox5(Traffic-bearing))	0	0	
	22	Cell	
Junction Box Type 5 (Traffic-bearing) New (TR_TS_JBox5(Traffic-bearing)New)	2	0	
	6	Cell	
Junction Box Type 6 (Traffic-bearing) (TR_TS_JBox6(Traffic-bearing))	0	0	
	22	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

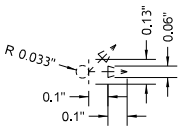
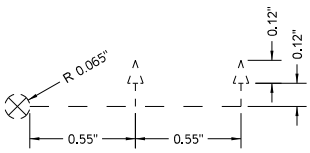
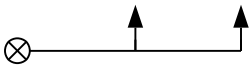
TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Junction Box Type 6 (Traffic-bearing) New (TR_TS_JBox6(Traffic-bearing)New)	2 / 0 6 / Cell	
Junction Box Type 7 (No lock) (TR_TS_JBox7(NoLock))	0 / 0 22 / Cell	
Junction Box Type 7 (No lock) New (TR_TS_JBox7(NoLock)New)	2 / 0 6 / Cell	
Junction Box Type 8 (With lock) (TR_TS_JBox8(WithLock))	0 / 0 22 / Cell	
Junction Box Type 8 (With lock) New (TR_TS_JBox8(WithLock)New)	2 / 0 6 / Cell	
Junction Box Unknown (TR_TS_JBoxUnknown) Text Size = 0.07 Font = ariali / 164	0 / 0 22 / Cell	
Pull Box (TR_TS_PullBox) Text Size = 0.07 Font = ariali / 164	0 / 0 54 / Cell	0.1" PB 0.2"

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

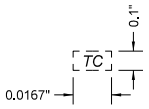
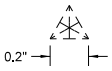
TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight | ByLevel Style byLevel Color | Element Type	Example
Pull Box New (TR_TS_PullBoxNew) Text Size = 0.07 Font = arialbd / 217	2 | 0 38 | Cell	
SCDI Box (TR_TS_SCDIBox)	0 | 0 86 | Cell	
SCDI Box New (TR_TS_SCDIBoxNew)	2 | 0 70 | Cell	
Signal Type 1 (TR_TS_SignalType1)	0 | 0 54 | Cell	
Signal Type 1 New (TR_TS_SignalType1New)	2 | 0 38 | Cell	
Signal Type 2 (TR_TS_SignalType2)	0 | 0 54 | Cell	
Signal Type 2 New (TR_TS_SignalType2New)	2 | 0 38 | Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

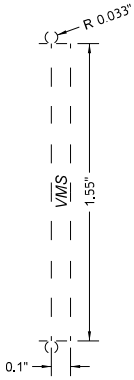
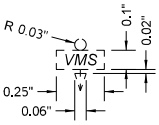
TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Terminal Cabinet (TR_TS_TerminalCabinet) Text Size = 0.07 Font = ariali / 164	0 / 0 54 / Cell	
Terminal Cabinet New (TR_TS_TerminalCabinetNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 38 / Cell	TC
Traffic Systems Text (TR_TS_TrafficSystemsText) Text SIze = 0.07 Font = ariali / 164	0 / 0 22 / Text	*DYNAMIC MESSAGE SIGN*
Traffic Systems Text New (TR_TS_TrafficSystemsTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 6 / Text	**DYNAMIC MESSAGE SIGN**
Transformer Cabinet (TR_TS_TransformerCabinet) Text Size = 0.07 Font = ariali / 164	0 / 0 54 / Cell	*T*
Transformer Cabinet New (TR_TS_TransformerCabinetNew) Text SIze = 0.07 Font = arialbd / 217	2 / 0 38 / Cell	T
VMS Control Cabinet (TR_TS_VMSControlCabinet)	0 / 0 118 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

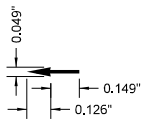
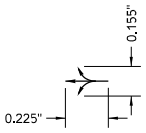
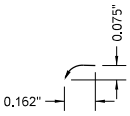
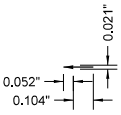
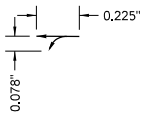
TR TS Traffic - Traffic Systems

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
VMS Control Cabinet New (TR_TS_VMSControlCabinetNew)	2 / 0 102 / Cell	
VMS Overhead (TR_TS_VMSOverhead) Text Size = 0.07 Font = ariali / 164	0 / 0 118 / Cell	
VMS Overhead New (TR_TS_VMSOverheadNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 102 / Cell	
VMS Shoulder (TR_TS_VMSShoulder) Text Size = 0.07 Font = ariali / 164	0 / 0 118 / Cell	
VMS Shoulder New (TR_TS_VMSShoulderNew) Text Size = 0.07 Font = arialbd / 217	2 / 0 102 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

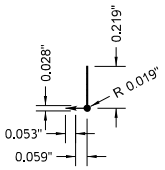
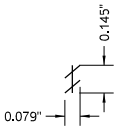
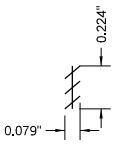
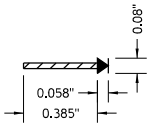
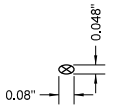
TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Arrow Detour Route (TR_WZ_ArrowDetourRoute)	4 / 0 / 6 / Cell	
Arrow Left Straight Right Turn (TR_WZ_ArrowLeftStrRightTurn)	1 / 0 / 6 / Cell	
Arrow Left Turn (TR_WZ_ArrowLeftTurn)	1 / 0 / 6 / Cell	
Arrow Right Turn (TR_WZ_ArrowRightTurn)	1 / 0 / 6 / Cell	
Arrow Straight (TR_WZ_ArrowStraight)	1 / 0 / 6 / Cell	
Arrow Straight Left Turn (TR_WZ_ArrowStraightLeftTurn)	1 / 0 / 6 / Cell	
Arrow Straight Right Turn (TR_WZ_ArrowStraightRightTurn)	1 / 0 / 6 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Auto Flagger Assist Device (TR_WZ_AutoFlaggerAssistDevice)	1	0	
	134	Cell	
Barricade Type 2 (TR_WZ_BarricadeType2)	1	0	
	38	Cell	
Barricade Type 3 (TR_WZ_BarricadeType3)	1	0	
	38	Cell	
Barrier Attenuator (TR_WZ_BarrierAttenuator)	1	0	
	38	Cell	
Barrier Double Face Elev (TR_WZ_BarrierDoubleFaceElev)	1	0	
	38	Cell	
Barrier Drum (TR_WZ_BarrierDrum)	1	0	
	38	Cell	
Barrier Drum Pattern 12 (TR_WZ_BarrierDrumPattern12)	1	Custom	
	38	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

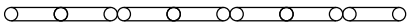
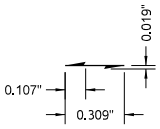
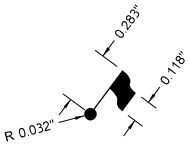
TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Barrier Drum Pattern 18 (TR_WZ_BarrierDrumPattern18)	1	Custom	
	38	Line	
Barrier Drum Pattern 24 (TR_WZ_BarrierDrumPattern24)	1	Custom	
	38	Line	
Barrier Pole Sign Mount (TR_WZ_BarrierPoleSignMount)	1	0	0.062" 0.046"
	38	Cell	
Barrier Quick Move (TR_WZ_BarrierQuickMove)	1	Custom	
	38	Line	
Barrier Single Face Elev (TR_WZ_BarrierSingleFaceElev)	1	0	
	38	Cell	
Concrete Barrier (TR_WZ_ConcreteBarrier)	1	Custom	
	54	Line	
Concrete Barrier New (TR_WZ_ConcreteBarrierNew)	1	Custom	
	38	Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

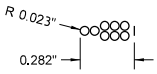
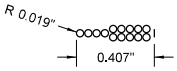
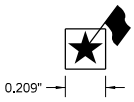
TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Concrete Divider Basic Elev (TR_WZ_ConcreteDividerBasicElev)	1	0	
	38	Cell	
Detectable Edge For Pedestrians (TR_WZ_DetectableEdgeForPed)	1	Custom	
	38	Line	
Double 2 Way Arrow (TR_WZ_Double2WayArrow)	1	0	
	6	Cell	
Flagging Station (TR_WZ_FlaggingStation)	1	0	
	134	Cell	
Guardrail Elev (TR_WZ_GuardrailElev)	1	0	
	38	Cell	
Guide Post New Elev (TR_WZ_GuidePostNewElev)	1	0	
	70	Cell	
Guide Post Temp (TR_WZ_GuidePostTemp)	1	0	
	70	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

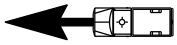
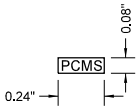
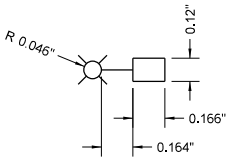
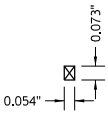
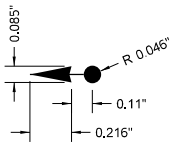
TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Impact Attenuator 40 mph (TR_WZ_ImpactAttenuator40mph)	1	0	
	38	Cell	
Impact Attenuator 60 mph (TR_WZ_ImpactAttenuator60mph)	1	0	
	38	Cell	
Impact Attenuator Temp (TR_WZ_ImpactAttenuatorTemp)	1	0	
	38	Cell	
Law Enforcement Flagger (TR_WZ_LawEnforcementFlagger)	1	0	
	134	Cell	
Local Law Enforcement (TR_WZ_LocalLawEnforcement)	1	0	
	134	Cell	
Longitudinal Channelizing Device (TR_WZ_LongitudinalChanDevice)	1	Custom	
	38	Line	
Motorist Vehicle (TR_WZ_MotoristVehicle)	1	0	
	134	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

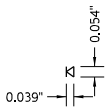
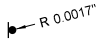
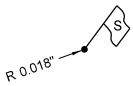
TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Pedestrian Channelizing Device (TR_WZ_PedestrianChanDevice)	1	Custom	
	38	Line	
Permitted Contractor Access (TR_WZ_PermittedContractorAccess)	1	0	
	134	Cell	
Portable Change Message Sign (TR_WZ_PortableChangeMessageSign) Text Size = 0.07 Font = arial / 200	1	0	
	102	Cell	
Portable Light Standard (TR_WZ_PortableLightStandard)	1	0	
	134	Cell	
Portable Sign Mount (TR_WZ_PortableSignMount)	1	0	
	102	Cell	
Portable Signal System (TR_WZ_PortableSignalSystem)	1	0	
	102	Cell	
Scale Terminal End Section (TR_WZ_ScaleTerminalEndSection)	1	0	
	38	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Sequential Arrow Type B (TR_WZ_SequentialArrowTypeB)	1 / 0 / 102 / Cell	
Sequential Arrow Type C (TR_WZ_SequentialArrowTypeC)	1 / 0 / 102 / Cell	
Sign (TR_WZ_Sign)	1 / 0 / 118 / Cell	
Sign Mount Tripod (TR_WZ_SignMountTripod)	1 / 0 / 102 / Cell	
Sign New (TR_WZ_SignNew)	1 / 0 / 102 / Cell	
Spotter Location (TR_WZ_SpotterLocation) Text Size = 0.07 Font = arial / 200	1 / 0 / 134 / Cell	
Tall Channelizing Device (TR_WZ_TallChannelizingDevice)	1 / 0 / 38 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

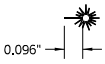
TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Tall Channelizing Device Elev (TR_WZ_TallChanDeviceElev)	1	0	
	38	Cell	
Traffic Safety Cone (TR_WZ_TrafficSafetyCone)	1	0	
	38	Cell	
Traffic Safety Cone Elev (TR_WZ_TrafficSafetyConeElev)	1	0	
	38	Cell	
Traffic Safety Drum (TR_WZ_TrafficSafetyDrum)	1	0	
	38	Cell	
Traffic Safety Drum Elev (TR_WZ_TrafficSafetyDrumElev)	1	0	
	38	Cell	
Traffic Safety Drum Lt Elev (TR_WZ_TrafficSafetyDrumLtElev)	1	0	
	38	Cell	
Transportable Attenuator (TR_WZ_TransportableAttenuator)	1	0	
	38	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Truck Buffer (TR_WZ_TruckBuffer)	1	0	
	134	Cell	
Tubular Marker Elev (TR_WZ_TubularMarkerElev)	1	0	
	38	Cell	
Warning Beacon (TR_WZ_WarningBeacon)	1	0	
	102	Cell	
Warning Flag (TR_WZ_WarningFlag)	1	0	
	102	Cell	
Warning Flare (TR_WZ_WarningFlare)	1	0	
	102	Cell	
Work Zone Details (TR_WZ_WorkZoneDetails)	0	0	
	0	Line	
Work Zone Text Current (TR_WZ_WorkZoneTextCurrent)	0	0	**WORK ZONE**
Text Size = 0.07 Font = arialbd / 217	6	Text	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

TR WZ Traffic - Work Zone

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Work Zone Text Previous (TR_WZ_WorkZoneTextPrevious) Text Size = 0.07 Font = ariali / 164	0 / 0 22 / Text	*WORK ZONE*
WSP (TR_WZ_WSP) Text Size = 0.04 Font = ariali / 164	1 / 0 134 / Cell	
WSP2 (TR_WZ_WSP2) Text SIze = 0.07 Font = ariali / 164	1 / 0 134 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Above Ground Cable TV (UT_CM_AbvGndCableTV) Text Size = 0.06 Font = ariali / 164	0 / Custom 21 / Line	- OTV – – OTV – – OTV – – OTV – – OTV – -
Above Ground Cable TV New (UT_CM_AbvGndCableTVNew) Text Size = 0.06 Font = arialbd / 217	0 / Custom 5 / Line	- OTV — OTV — OTV — OTV — OTV —
Above Ground Communication Line (UT_CM_AbvGndCommLine)	0 / Custom 21 / Line	- OCL – – OCL – – OCL – – OCL – – OCL – -
Above Ground Communication Line New (UT_CM_AbvGndCommLineNew)	0 / Custom 5 / Line	- **OCL** — **OCL** — **OCL** — **OCL** — **OCL** —
Above Ground Fiber Optic Cable (UT_CM_AbvGndFiberOpticCable)	0 / Custom 21 / Line	- OF — — OF — — OF — — OF — — OF — –
Above Ground Fiber Optic Cable New (UT_CM_AbvGndFiberOpticCableNew)	0 / Custom 5 / Line	- **OF** — **OF** — **OF** — **OF** — **OF** —
Above Ground Telephone Line (UT_CM_AbvGndTelephoneLine) Text Size = 0.06 Font = ariali / 164	0 / Custom 21 / Line	- OT — — OT — — OT — — OT — — OT — –

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

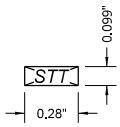
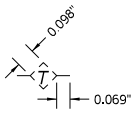
UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Above Ground Telephone Line New (UT_CM_AbvGndTelephoneLineNew) Text Size = 0.06 Font = arialbd / 217	0 / Custom 5 / Line	OT OT OT OT OT
Cable Pedestal (UT_CM_CablePedestal) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	CP R 0.0064" 0.0117"
Cable Pedestal New (UT_CM_CablePedestalNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 5 / Cell	CP
Communication Utility Text (UT_CM_CommunicationUtilText) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Text	*UTILITIES*
Communication Utility Text New (UT_CM_CommunicationUtilTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 5 / Text	**UTILITIES**
Communications Manhole (UT_CM_Manhole)	0 / 0 117 / Cell	C
Communications Manhole New (UT_CM_ManholeNew)	1 / 0 101 / Cell	C

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

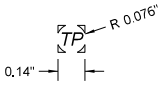
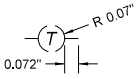
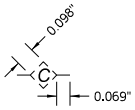
UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Steel Transmission Tower (UT_CM_SteelTransmissionTower) Text Size = 0.07 Font = ariali / 164	1	0	
Telephone Booth (UT_CM_TelephoneBooth)	0	0	
Telephone Booth New (UT_CM_TelephoneBoothNew)	1	0	
Telephone Box (UT_CM_TelephoneBox) Text Size = 0.07 Font = ariali / 164	0	0	
Telephone Box New (UT_CM_TelephoneBoxNew) Text Size = 0.07 Font = arialbd / 217	1	0	
Telephone Manhole (UT_CM_TelephoneManhole) Text Size = 0.05 Font = ariali / 164	0	0	
Telephone Manhole New (UT_CM_TelephoneManholeNew) Text Size = 0.05 Font = arialbd / 217	1	0	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Telephone Pedestal (UT_CM_TelephonePedestal) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	
Telephone Pedestal New (UT_CM_TelephonePedestalNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 5 / Cell	
Telephone Pole (UT_CM_TelephonePole) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	
Telephone Pole New (UT_CM_TelephonePoleNew) Text Size = 0.07 Font = arialbd / 217	1 / 0 5 / Cell	
Under Ground Cable Box (UT_CM_UndGndCableBox) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	
Under Ground Cable Box New (UT_CM_UndGndCableBoxNew) Text Size = 0.07 Font = arialbd / 217	1 / 0 5 / Cell	
Under Ground Cable TV (UT_CM_UndGndCableTV) Text Size = 0.06 Font = ariali / 164	0 / Custom 21 / Line	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

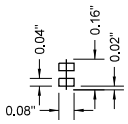
UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Under Ground Cable TV New (UT_CM_UndGndCableTVNew) Text Size = 0.06 Font = arialbd / 217	0 / Custom 5 / Line	- BTV — BTV — BTV — BTV — BTV —
Under Ground Communication Line (UT_CM_UndGndCommLine)	0 / Custom 21 / Line	- BCL – – BCL – – BCL – – BCL – – BCL – -
Under Ground Communication Line New (UT_CM_UndGndCommLineNew)	0 / Custom 5 / Line	- BCL — BCL — BCL — BCL — BCL —
Under Ground Communication Vault (UT_CM_UndGndCommunicatVaultNew) Text Size = 0.07 Font = arialbd / 217	1 / 0 5 / Cell	C
Under Ground Communication Vault New (UT_CM_UndGndCommunicationVault) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	R 0.02" C 0.12"
Under Ground Fiber Optic (UT_CM_UndGndFiberOptic) Text SIze = 0.06 Font = ariali / 164	0 / Custom 21 / Line	- BF — — BF — — BF — — BF — — BF — —
Under Ground Fiber Optic New (UT_CM_UndGndFiberOpticNew) Text Size = 0.06 Font = arialbd / 217	0 / Custom 5 / Line	- BF —— BF —— BF —— BF —— BF ——

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT CM Utilities - Communications

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Under Ground Telephone Box (UT_CM_UndGndTelephoneBox) Text Size = 0.07 Font = ariali / 164	0	0 Cell	
Under Ground Telephone Box New (UT_CM_UndGndTelephoneBoxNew) Text Size = 0.07 Font = arialbd / 217	1	0 Cell	
Under Ground Telephone Cable (UT_CM_UndGndTelephoneCable) Text SIze = 0.06 Font = ariali / 164	0	Custom Line	
Under Ground Telephone Cable New (UT_CM_UndGndTelephoneCableNew) Text Size = 0.06 Font = arialbd / 217	0	Custom Line	
Unknown Pedestal (UT_CM_UnknownPedestal) Text Size = 0.07 Font = ariali / 164	0	0 Cell	
Wooden Transmission Tower (UT_CM_WoodenTransmissionTower)	1	0 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT GS Utilities - Gas

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Gas Line (UT_GS_GasLine) Text Size = 0.06 Font = ariali / 164	0	Custom 53 Line	- G — — G — — G — — G — — G — –
Gas Line New (UT_GS_GasLineNew) Text Size = 0.06 Font = arialbd / 217	0	Custom 37 Line	- G —— G —— G —— G —— G ——
Gas Meter Box (UT_GS_GasMeterBox)	0	0 53 Cell	R 0.05"
Gas Meter Box New (UT_GS_GasMeterBoxNew)	1	0 37 Cell	
Gas Utilities Text (UT_GS_GasUtilitiesText) Text Size = 0.07 Font = ariali / 164	0	0 53 Text	*UTILITIES*
Gas Utilities Text New (UT_GS_GasUtilitiesTextNew) Text SIze = 0.07 Font = arialbd / 217	0	0 37 Text	**UTILITIES**
Oil Line (UT_GS_OilLine) Text Size = 0.06 Font = ariali / 164	0	Custom 53 Line	- O — — O — — O — — O — — O — –

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT GS Utilities - Gas

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Oil Line New (UT_GS_OilLineNew) Text Size = 0.06 Font = arialbd / 217	0	Custom 37 Line	
Valve Box Gas (UT_GS_ValveBoxGas) Text Size = 0.05 Font = ariali / 164	0	0 53 Cell	R 0.05"
Valve Box Gas New (UT_GS_ValveBoxGasNew) Text SIze = 0.05 Font = arialbd / 217	1	0 37 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

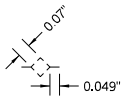
UT GU Utilities - General Utilities Items

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Above Ground Utility Line (UT_GU_AboveGroundUtilityLine) Text Size = 0.06 Font = ariali / 164	0 / Custom 21 / Line	- O? — — O? — — O? — — O? — — O? — —
Above Ground Utility Point (UT_GU_AboveGroundUtilityPoint) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	U? 0.14"
Down Guy Anchor (UT_GU_DownGuyAnchor)	0 / 0 21 / Cell	R 0.05" 0.1"
Down Guy Anchor New (UT_GU_DownGuyAnchorNew)	1 / 0 5 / Cell	
General Utilities Text (UT_GU_GeneralUtilitiesText) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Text	*UTILITIES*
General Utilities Text New (UT_GU_GeneralUtilitiesTextNew) Text SIze = 0.07 Font = arialbd / 217	0 / 0 5 / Text	**UTILITIES**
Guy Pole (UT_GU_GuyPole) Text Size = 0.07 Font = ariali / 164	0 / 0 21 / Cell	G R 0.07" 0.051"

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

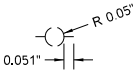
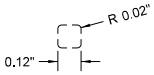
UT GU Utilities - General Utilities Items

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Guy Pole New (UT_GU_GuyPoleNew) Text Size = 0.07 Font = arialbd / 217	1	0 5 Cell	
Guy Wire (UT_GU_GuyWire)	0	0 21 Line	
Guy Wire New (UT_GU_GuyWireNew)	1	0 5 Line	
Under Ground Utility Line (UT_GU_UnderGndUtilityLine) Text Size = 0.06 Font = ariali / 164	0	Custom 21 Line	
Utility Box (UT_GU_UtilityBox)	0	0 21 Cell	
Utility Box New (UT_GU_UtilityBoxNew)	1	0 5 Cell	
Utility Manhole (UT_GU_UtilityManhole) Text Size = 0.05 Font = ariali / 164	0	0 21 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

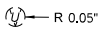
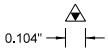
UT GU Utilities - General Utilities Items

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Utility Manhole New (UT_GU_UtilityManholeNew) Text Size = 0.05 Font = arialbd / 217	1 / 0 5 / Cell	
Utility Marker Post (UT_GU_UtilityMarkerPost)	0 / 0 21 / Cell	
Utility Marker Post New (UT_GU_UtilityMarkerPostNew)	1 / 0 5 / Cell	
Utility Pole (UT_GU_UtilityPole)	0 / 0 21 / Cell	
Utility Pole New (UT_GU_UtilityPoleNew)	1 / 0 5 / Cell	
Utility Vault (UT_GU_UtilityVault)	0 / 0 21 / Cell	
Utility Vault New (UT_GU_UtilityVaultNew)	1 / 0 5 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT GU Utilities - General Utilities Items

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Valve Box (UT_GU_Valvebox) Text Size = 0.05 Font = arial / 164	0 / 0 21 / Cell	
Valve Box New (UT_GU_ValveboxNew) Text Size = 0.05 Font = arialbd / 217	1 / 0 5 / Cell	
Vent (UT_GU_Vent)	0 / 0 21 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT MT Utilities - Multiple Types

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Above Ground Utilities Multiple (UT_MT_AbvGndUtilitiesMulti) Text Size = 0.06 Font = ariali / 164	0	Custom 149 Line	- OM — — OM — — OM — — OM — — OM — —
Above Ground Utilities Multiple Deactive (UT_MT_AbvGndUtilMultDeactive)	0	Custom 149 Line	- OM — — OM — — OM — — OM — — OM — —
Above Ground Utilities Multiple New (UT_MT_AbvGndUtilitiesMultiNew) Text Size = 0.06 Font = arialbd / 217	0	Custom 133 Line	- **OM** —— **OM** —— **OM** —— **OM** —— **OM** ——
Multi Utilities Text (UT_MT_MultiUtilitiesText) Text Size = 0.07 Font = ariali / 164	0	0 149 Text	*UTILITIES*
Multi Utilities Text New (UT_MT_MultiUtilitiesTextNew) Text Size = 0.06 Font = arialbd / 217	0	0 133 Text	**UTILITIES**
Under Ground Utilities Multiple New (UT_MT_UndGndUtilitiesMultiNew)	0	Custom 133 Line	- **BM** —— **BM** —— **BM** —— **BM** —— **BM** ——
Utilities Multi Types 1 (UT_MT_UtilitiesMultiTypes1) Text Size = 0.06 Font = ariali / 164	0	Custom 149 Line	- *U1* — — *U1* — — *U1* — — *U1* — — *U1* — —

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT MT Utilities - Multiple Types

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Utilities Multi Types 2 (UT_MT_UtilitiesMultiTypes2) Text Size = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U2 — — U2 — — U2 — — U2 — — U2 — —
Utilities Multi Types 3 (UT_MT_UtilitiesMultiTypes3) Text Size = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U3 — — U3 — — U3 — — U3 — — U3 — —
Utilities Multi Types 4 (UT_MT_UtilitiesMultiTypes4) Text SIze = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U4 — — U4 — — U4 — — U4 — — U4 — —
Utilities Multi Types 5 (UT_MT_UtilitiesMultiTypes5) Text Size = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U5 — — U5 — — U5 — — U5 — — U5 — —
Utilities Multi Types 6 (UT_MT_UtilitiesMultiTypes6) Text Size = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U6 — — U6 — — U6 — — U6 — — U6 — —
Utilities Multi Types 7 (UT_MT_UtilitiesMultiTypes7) Text SIze = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U7 — — U7 — — U7 — — U7 — — U7 — —
Utilities Multi Types 8 (UT_MT_UtilitiesMultiTypes8) Text Size = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U8 — — U8 — — U8 — — U8 — — U8 — —

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT MT Utilities - Multiple Types

Description (Level Name)	ByLevel Weight / ByLevel Style / byLevel Color / Element Type	Example
Utilities Multi Types 9 (UT_MT_UtilitiesMultiTypes9) Text Size = 0.06 Font = ariali / 164	0 / Custom 149 / Line	- U9 — — U9 — — U9 — — U9 — — U9 — —

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

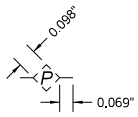
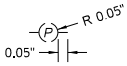
UT PW Utilities - Power

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Above Ground Hi Tens Power Line (UT_PW_AbvGndHiTensPowerLine) Text Size = 0.06 Font = ariali / 164	0	Custom 117 Line	- OHP — — OHP — — OHP — — OHP — — OHP — -
Above Ground Hi Tens Power Line New (UT_PW_AbvGndHiTensPowerLineNew) Text Size = 0.06 Font = arialbd / 217	0	Custom 101 Line	- OHP — OHP — OHP — OHP — OHP —
Above Ground Power (UT_PW_AbvGndPower) Text SIze = 0.06 Font = ariali / 164	0	Custom 117 Line	- OP — — OP — — OP — — OP — — OP — —
Above Ground Power New (UT_PW_AbvGndPowerNew) Text Size = 0.06 Font = arialbd / 217	0	Custom 101 Line	- OP — OP — OP — OP — OP —
Elect Box (UT_PW_ElectBox) Text Size = 0.07 Font = ariali / 164	0	0 117 Cell	E 0.1"
Elect Box New (UT_PW_ElectBoxNew) Text SIze = 0.07 Font = arialbd / 217	1	0 101 Cell	E
Ground Rod (UT_PW_GroundRod)	0	0 117 Cell	0.06"

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT PW Utilities - Power

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Power Box (UT_PW_PowerBox) Text Size = 0.07 Font = ariali / 164	0 / 0 117 / Cell	
Power Box New (UT_PW_PowerBoxNew) Text Size = 0.07 Font = arialbd / 217	1 / 0 101 / Cell	
Power Manhole (UT_PW_PowerManhole) Text Size = 0.07 Font = ariali / 164	0 / 0 117 / Cell	
Power Manhole New (UT_PW_PowerManholeNew) Text Size = 0.07 Font = arialbd / 217	1 / 0 101 / Cell	
Power Meter Box (UT_PW_PowerMeterBox)	0 / 0 117 / Cell	
Power Pole (UT_PW_PowerPole) Text Size = 0.05 Font = ariali / 164	0 / 0 117 / Cell	
Power Pole New (UT_PW_PowerPoleNew) Text Size = 0.05 Font = arialbd / 217	1 / 0 101 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

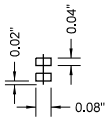
UT PW Utilities - Power

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Power Utilities Text (UT_PW_PowerUtilitiesText) Text Size = 0.07 Font = ariali / 164	0 / 0 117 / Text	*UTILITIES*
Power Utilities Text New (UT_PW_PowerUtilitiesTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 101 / Text	**UTILITIES**
Steel Transmission Tower (UT_PW_SteelTransmissionTower) Text SIze = 0.07 Font = ariali / 164	1 / 2 117 / Cell	0.28" STT 0.099"
Under Ground Power Line (UT_PW_UndGndPowerLine) Text Size = 0.06 Font = ariali / 164	0 / Custom 117 / Line	- *BP* — — *BP* — — *BP* — — *BP* — — *BP* — —
Under Ground Power Line New (UT_PW_UndGndPowerLineNew) Text Size = 0.06 Font = arialbd / 217	0 / Custom 101 / Line	- **BP** —— **BP** —— **BP** —— **BP** —— **BP** ——
Under Ground Power Vault (UT_PW_UndGndPowerVault) Text SIze = 0.07 Font = ariali / 164	0 / 0 117 / Cell	R 0.02" P 0.12"
Under Ground Power Vault New (UT_PW_UndGndPowerVaultNew) Text Size = 0.07 Font = arialbd / 217	1 / 0 101 / Cell	P

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT PW Utilities - Power

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
Utilities Text (UT_PW_UtilitiesText) Text Size = 0.07 Font = ariali / 164	0 / 0 117 / Text	*UTILITIES*
Utilities Text New (UT_PW_UtilitiesTextNew) Text Size = 0.07 Font = arialbd / 217	0 / 0 101 / Text	**UTILITIES**
Wooden Transmission Tower (UT_PW_WoodenTransmissionTower)	1 / 0 117 / Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT SS Utilities - Sanitary Sewer

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Drainfield (UT_SS_Drainfield)	1	3	
	149	Line	
Drainfield Deactive (UT_SS_DrainfieldDeactive)	1	Custom	
	149	Line	
Drainfield New (UT_SS_DrainfieldNew)	3	0	
	133	Line	
San Sewer Clean Out (UT_SS_SanSewerCleanOut)	0	0	R 0.05"
Text Size = 0.03, Font = ariali / 164	149	Cell	
San Sewer Line (UT_SS_SanSewerLine)	0	Custom	
Text Size = 0.06, Font = ariali / 164	149	Line	
San Sewer Line New (UT_SS_SanSewerLineNew)	0	Custom	
Text SIze = 0.06, Font = arialbd / 217	133	Line	
San Sewer Manhole (UT_SS_SanSewerManhole)	0	0	R 0.05"
Text Size = 0.05, Font = ariali / 164	149	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

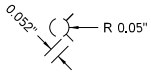
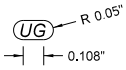
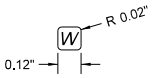
UT SS Utilities - Sanitary Sewer

Description (Level Name)	ByLevel Weight / ByLevel Style byLevel Color / Element Type	Example
San Sewer Manhole New (UT_SS_SanSewerManholeNew) Text Size = 0.05 Font = arialbd / 217	1 / 0 133 / Cell	SS
San Sewer Utilities Text (UT_SS_SanSewerUtilitiesText) Text Size = 0.07 Font = ariali / 164	0 / 0 149 / Text	*UTILITIES*
San Sewer Utilities Text New (UT_SS_SanSewerUtilitiesTextNew) Text SIze = 0.07 Font = arialbd / 217	0 / 0 133 / Text	**UTILITIES**
Valve Box San Sewer (UT_SS_ValveBoxSanSewer) Text Size = 0.05 Font = ariali / 164	0 / 0 149 / Cell	SS R 0.05"
Valve Box San Sewer New (UT_SS_ValveBoxSanSewerNew) Text Size = 0.05 Font = arialbd / 217	1 / 0 133 / Cell	SS

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT WT Utilities - Water

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Fire Depart Connection Post (UT_WT_FireDeptConnPost)	0	0	
	85	Cell	
Fire Depart Connection Wall (UT_WT_FireDeptConnWall)	0	0	
	85	Cell	
Fire Hydrant (UT_WT_FireHydrant)	0	0	
	85	Cell	
Fire Hydrant New (UT_WT_FireHydrantNew)	1	0	
	69	Cell	
Under Ground Tank (UT_WT_UndGndTank) Text Size = 0.05 Font = ariali / 164	0	0	
	85	Cell	
Under Ground Water Vault (UT_WT_UndGndWaterVault) Text Size = 0.07 Font = ariali / 164	0	0	
	85	Cell	
Under Ground Water Vault New (UT_WT_UndGndWaterVaultNew) Text Size = 0.07 Font = arialbd / 217	1	0	
	69	Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT WT Utilities - Water

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Valve Box Water (UT_WT_ValveBoxWater) Text Size = 0.05 Font = ariali / 164	0	0 85 Cell	R 0.05"
Valve Box Water New (UT_WT_ValveBoxWaterNew) Text Size = 0.05 Font = arialbd / 217	1	0 69 Cell	
Valve Release (UT_WT_ValveRelease) Text Size = 0.05 Font = ariali / 164	0	0 85 Cell	
Water Line (UT_WT_WaterLine) Text Size = 0.06 Font = ariali / 164	0	Custom 85 Line	- w — — w — — w — — w — — w — –
Water Line New (UT_WT_WaterLineNew)	0	Custom 69 Line	- w —— w —— w —— w —— w ——
Water Manhole (UT_WT_WaterManhole) Text Size = 0.05 Font = ariali / 164	0	0 85 Cell	R 0.05"
Water Manhole New (UT_WT_WaterManholeNew) Text Size = 0.05 Font = arialbd / 217	1	0 69 Cell	

S5.05 Standard Symbols (cont.)

Examples are shown at the correct size for all drawing scales printed to 11"x17" PS&E sheet, unless otherwise noted. Items flagged with an asterisk (*) are True Size items that always measure the same in ground units and their size on a print changes with the drawing scale. The scales of the True Size item examples are noted.

UT WT Utilities - Water

Description (Level Name)	ByLevel Weight / byLevel Color	ByLevel Style / Element Type	Example
Water Meter Box (UT_WT_WaterMeterBox)	0	0	R 0.05"
	85	Cell	
Water Meter Box New (UT_WT_WaterMeterBoxNew)	1	0	
	69	Cell	
Water Utilities Text (UT_WT_WaterUtilitiesText) Text Size = 0.07 Font = ariali / 164	0	0	*UTILITIES*
	85	Text	
Water Utilities Text New (UT_WT_WaterUtilitiesTextNew) Text Size = 0.07 Font = arialbd / 217	0	0	**UTILITIES**
	69	Text	