

# SECTION A

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## Document Convention

### Typefaces

**Bold** Can indicate several items. First a command name, parameter name, or dialog box title. Command paths are shown using an arrow between command names.

Example: Choose **File > Open** to load a new file.

Second, a system prompt or message, which requires an action be taken by the user.

Example: **Select first segment of alignment**

**ALL CAPS** Used for project related variable in names of Files and Folders.

Example: minn1234.dgn would be shown as COUNPCN#.dgn

PCN# refers to the four-character designation for the PCN  
COUN refers to the four-character designation for the county  
STA refers to station (expressed without +00)  
ALIGN refers to alignment name

**?** Used in file name to indicate a variable.

r -Rural scale  
s -Suburban scale  
u -Urban scale

Example: t1234u.dgn would be shown as tPCN#?.dgn

**XX** Used in folder name to indicate different groups.

regionA	Aberdeen Region
regionM	Mitchell Region
regionP	Pierre Region
regionRC	Rapid City Region
rd	Road Design
br	Bridge Design

Example: RegionP would be shown as RegionXX  
or rd would be shown as XX.

## Drives

All project related files will be worked on and stored on the server. The server is “\\Espr1c6srv\dot” which is mapped as your U: . This drive could be referred to as the U: drive or server.

All configuration and other miscellaneous file for MicroStation, InRoads and IPLOT are stored on the local drive or C: .

## Shortcuts

Since almost all files for each project are in the project folder you may want to create a shortcut to that folder.

### Shortcut to Folder

1. Using Window Explorer browse to prj folder.
2. Right Click the project folder – Select **Copy**.
3. Right Click on your Desktop – Select **Paste shortcut**.

## Project Folders

Project Folders will be broken up by regions and groups. Project Folders should always begin with COUN (the four-character abbreviation is found on sheet A-6) and end with PCN# (Project Control Number). Project Folders should always be a sub folder of the prj folder. Approval is required for additional folders other than those listed below.

Abandonment transfers will be stored in separate folders as a sub folder of Aban\_Trans. They will also be broken up by regions and groups, and will begin with COUN (the four-character abbreviation is found on sheet A-6) and end in PCN# ( the PCN or assigned ID ).

Note: If the project is in multiple counties, then use the county that is the farthest West or South. If the project is statewide then use SD.

Note: If a PCN does not exist for the work being done then store the files in Misc not prj or get a PCN assigned.

## Naming Convention

Some of the standard naming conventions have been listed below. If you need to create a file that doesn't have an established name then create one that has some meaning. File names such as "junk", "bob", etc. are unacceptable.

Files containing information for the entire project shall include PCN# in the file name. Generally these files are a complete project layout and are to be a State Plane Coordinates.

### 1. **Survey :** The following files are available from survey in the region project folder:

(U:\regionXX\prj\COUNPCN#) (These files are read only in the Central Office)

Name	Created By:	Description
PCN#org.dtm	Field Office	Original Ground Surface
PCN#org.alg	Field Office	Original Survey Geometry
PCN#lt.alg	Road Design	Add'l Land Tie Geometry (only if surveyed separately)
tPCN#?.dgn	Field Office	Topography (Graphics)
PCN#lt.dgn	Road Design	Add'l Land Ties (Graphics) (only if surveyed separately)

### 2. **Road Design :** The following files are available from road design project folder: (U:\rd\prj\COUNPCN#)

All files from other offices will be referenced or opened from their appropriate folder. All efforts should be made to not copy files from other office's folders.

**MicroStation Files:** (U:\rd\prj\COUNPCN#)

Type	Name	Logical	Description
ROW Files	rPCN#.dgn	r	ROW Project Layout
	stripmap.dgn		Strip Map for Project
	mosiac.dgn		Project Mosiac
Drafter Files	dPCN#?.dgn	d	Drafting Project Layout
	cgPCN#.dgn	cg	Curb and Gutter Project Layout
	fPCN#.dgn	f	Traffic Project Layout
Designer Files	ePCN#.dgn	e	Designer Project Layout
	xPCN#.dgn	x	Cross Sections
	pPCN#.dgn	p	Pipe Cross Sections
	gPCN#.dgn	g	Erosion Control Project Layout
	yPCN#.dgn		Traffic Designer Project Layout
	stakePCN#.dgn		Layout used for Construction Staking
	sPCN#.dgn		Storm Sewer Project Layout
Plan Sheets	cPCN#.dgn	c	Contours and Triangles Project Layout
	title.dgn		Title Sheet
	title?.dgn		Cover Sheet for Section (b-z)
	typ.dgn		Typical Sheet
	toposymb.dgn		Topography Symbology & Legend
	STA.dgn		Plan /Profile Sheets (Beginning Station)
	STAv.dgn		Profile Sheet (Beginning Station)
	STAcg.dgn		Curb & Gutter Sheets (Beginning Station)
	STAgr.dgn		Guard Rail Sheets (Beginning Station)
	STAp#.dgn		Plats (Beginning Station)
	STAe#.dgn		Exhibits (Beginning Station)
	STARow.dgn		ROW Plan Sheets (Beginning Station)
	STAc.dgn		Conduit Sheets (Intersection Station)
	STAES.dgn		Existing Signal Sheets (Intersection Station)
	STAS.dgn		Signal Sheets (Intersection Station)

**MicroStation Files:** (U:\rd\prj\COUNPCN#)

Type	Name	Logical	Description
Plan Sheets	STAw.dgn		Signal Wiring Diagrams (Intersection Station)
	STAp.m.dgn		Pavement Marking Sheets (Begin or Inter. Sta)
	STASTAr.dgn		Lighting Removal Sheets (Begin Sta-End Sta)
	STASTAw.dgn		Field Wiring Diagrams (Begin Sta-End Sta)
	STAtime.dgn		Signal Timing Diagram
	tsd.dgn		Time-Space Diagram
	STAss.dgn		Alternate - Storm Sewer Sheets (Begin Station)
	STARw.dgn		Alternate - ROW Layout Sheets (Begin Station)
	STAc.dgn		Erosion Control Sheets (Beginning Station)
	STAla.dgn		Landscape Sheets (Beginning Station)

**Note: For Non-Mainline Sheets include Alignment Name(See Below) after STA.**

**MicroStation Files:** From other Offices (U:\XX\prj\COUNPCN#)

Type	Name	Logical	Description
Survey Files	tPCN#?.dgn	t	Topography Project Layout
	PCN#lt.dgn	lt	Land Ties (only if surveyed separately)
Surfacing	jPCN#.dgn	j	Surfacing Joint Project Layout (XX refers to ms)
Bridge	bPCN#.dgn	b	Bridge Project Layout (XX refers to br)
Subsurface Utilities	uPCN#?.dgn	u	Subsurface utilities Project Layout (XX refers to row)

**InRoads Files:** (U:\rd\prj\COUNPCN#)

Type	Name	Location
Project File	PCN#.rwk	(U:\rd\prj\COUNPCN#)
Geometry Files		
ROW	rPCN#.alg	(U:\rd\prj\COUNPCN#)
Drafter	dPCN#.alg	(U:\rd\prj\COUNPCN#)
Traffic Drafter	fPCN#.alg	(U:\rd\prj\COUNPCN#)
Engineer	ePCN#.alg	(U:\rd\prj\COUNPCN#)
Survey	PCN#org.alg	(U:\regionXX\prj\COUNPCN#)
	PCN#lt.alg	(U:\regionXX\prj\COUNPCN#)
Template Libraries		
Base	sddot.itl	(U:\rd\Bentley\V8i\InRoads\data\English)
Project	PCN#.itl	(U:\rd\prj\COUNPCN#)
Roadway Design File*	PCN#.ird	(U:\rd\prj\COUNPCN#)
Surfaces		
Original	PCN#org.dtm	(U:\regionXX\prj\COUNPCN#)
Design	ALIGN.dtm	(U:\rd\prj\COUNPCN#)
surface for Storm Sewer	storm.dtm	(U:\rd\prj\COUNPCN#)
surface for Select Topping	select.dtm	(U:\rd\prj\COUNPCN#)
Existing Subsurface Utilities	utilites.dtm	(U:\rd\prj\COUNPCN#)
Strom and Sanitary Drainage file	PCN#.sdb	(U:\rd\prj\COUNPCN#)
Preference File	XX.xin	(C:\dot\XX\data)

**\*Note: For Corridor Name use Alignment Name.**

**Alignment Names:**

mainline	construction center line
US##	Intersecting Highway - number proceeded by SD or US (EX. SD45)
xrSTA	minor cross roads - mainline station of intersection (EX. xr445 for cross road at 445+21)
frSTA	frontage roads - beginning station which matched mainline stationing. (EX. fr445 for frontage road starting at 445+21)
detSTA	detour - mainline station of intersection
divSTA	diversion - mainline station of intersection
drSTA	drainage alignment - mainline station of intersection
rampA	ramp naming convention – see Road Design Manual Chapter 13 – Interchanges (pg 13-8 to 13-10) labeling alphabetically starting in NE quad
EB	divided highways with two mainlines (EX. SB for southbound)
b#	section lines, quarter lines, sixteen lines, property lines, etc.
e#	existing row line
ec#	existing center line
A#	proposed row lines
te#	temporary easements
area#	Areas for ROW

**Print Organizer Plot Sets: (U:\rd\prj\COUNPCN#)**

PCN#_Section?.pset	All MicroStation Sheets for the Section.
PCN#_NonSection.pset	All MicroStation Sheets
PCN#_plats.pset	All Plats for the Project.
PCN#_ROWPlans.pset	All ROW Plan Sheets for Project

**Adobe Acrobat Files: (U:\rd\prj\COUNPCN#)\***

PCN#_Plats.pdf	All sheets for plats
PCN#_ROWPlans.pdf	All sheets for ROW plans
PCN#_Section?.pdf	All sheets for section.
PCN#_NonSection.pdf	All sheets for Non-section method.
PCN#_Section?Add#.pdf	Sheets revised for Addendum
PCN#_Section?CCO#.pdf	Sheets revised for CCO
StripMap.pdf	Strip Map for Project – Stored in Documents subfolder

\* **PDFs that are not Plans/Plats/ROW Plans are stored in the Documents subfolder (if useful to others) or H: drive (if not needed by others).**

**Other Files:**

ewPCN#.xls	Earthwork Computation Worksheets for Project.
PCN#fence.xls	Table of Fence Quantities Sheets for Project.
PCN#pipe.xls	Table of Pipe Quantities Sheets for Project.
PCN#notes.doc	Plan Notes Sheets for Project.
PCN#horizontal.doc	Horizontal Alignment Data Sheet for Project.
PCN#control.doc	Control Data Sheet for Project.
PCN#ec.doc	Erosion Control Notes Sheet for Project.
PCN#la.doc	Landscape Notes Sheet for Project.
STARow?.tif	Aerial Photos for ROW Sheet.
DTMNAME_Bluetop.txt	Blue top report for DTM
DTMNAME_Slopestake.txt	Slope stake notes for DTM
mosaic?.tif	Aerial Photos for mosaic

**Other Folders:(U:\rd\prj\COUNPCN#)**

Documents	Contains correspondence document files for the Project.
Plans Comments	Documents subfolder for plan review comments for the Project.
Drainage*	Contains all drainage related files for the Project.
Consultant Files	Folder for subfolders of consultant files not in Section B.
Section?	Subfolder for Section ( EX. SectionC ) (Except Section?.pdf) <i>For the Project Design Consultant Files Only</i>
Email*	For E-Mail relating to the Project.
Images	Folder for subfolders of pictures for Project.
Month Day, Year*	Subfolder name-( EX. October 28, 1999)
Other Agencies	Folder for subfolders for files received from other agencies. Create a subfolder for each agency.
Accident Reports*	Other Agencies subfolder for Accident Reports related to the Project
Noise	Contains all files for Project Noise Study
Staking	Contains all files for Staking Information for Project.
Scope Options*	Contains all files for Corridor Scope Design Options.
Traf*	Contains all files for Signal Timing and Progression and Lighting.

\* Additional subfolders acceptable

**Note:** If other folders are needed please work with your supervisor before creating new folders.

**County Abbreviation Naming Convention**

County	Abbr	FIPS Code	DOT Code	UTM Zone	SPC Zone
Aurora	auro	3	2	14	South
Beadle	bead	5	3	14	North
Bennett	benn	7	4	14	South
Bon Homme	bonh	9	5	14	South
Brookings	brok	11	6	14	North
Brown	brwn	13	7	14	North
Brule	brul	15	8	14	South
Buffalo	buff	17	9	14	South
Butte	bute	19	10	13	North
Campbell	camb	21	11	14	North
Charles Mix	cmix	23	12	14	South
Clark	clrk	25	13	14	North
Clay	clay	27	14	14	South
Codington	codn	29	15	14	North
Corson	cors	31	16	14	North
Custer	cust	33	17	13	South
Davison	davs	35	18	14	South
Day	day	37	19	14	North
Deuel	duel	39	20	14	North
Dewey	dewy	41	21	14	North
Douglas	doug	43	22	14	South
Edmunds	edms	45	23	14	North
Fall River	friv	47	24	13	South
Faulk	falk	49	25	14	North
Grant	grnt	51	26	14	North
Gregory	greg	53	27	14	South
Haakon	hakn	55	28	14	South
Hamlin	haml	57	29	14	North
Hand	hand	59	30	14	North
Hanson	hans	61	31	14	South
Harding	hard	63	32	13	North
Hughes	hugh	65	33	14	South
Hutchinson	huch	67	34	14	South

County	Abbr	FIPS Code	DOT Code	UTM Zone	SPC Zone
Hyde	hyde	69	35	14	North
Jackson	jack	71	36	14	South
Jerauld	jrld	73	37	14	South
Jones	jons	75	38	14	South
Kingsbury	king	77	39	14	North
Lake	lake	79	40	14	South
Lawrence	lawr	81	41	13	North
Lincoln	linc	83	42	14	South
Lyman	lymn	85	43	14	South
Mccook	mckk	87	44	14	South
Mcperson	mcph	89	45	14	North
Marshall	mrsh	91	46	14	North
Meade	mead	93/993	47	13	North
Mellette	mell	95	48	14	South
Miner	minr	97	49	14	South
Minnehaha	minn	99	50	14	South
Moody	mody	101	51	14	South
Pennington	penn	103/903	52	13	South
Perkins	perk	105	53	13	North
Potter	pott	107	54	14	North
Roberts	robt	109	55	14	North
Sanborn	sanb	111	56	14	South
Shannon	shan	113	57	13	South
Spink	spnk	115	58	14	North
Stanley	stan	117	59	14	South
Sully	suly	119	60	14	North
Todd	todd	121	61	14	South
Tripp	trip	123	62	14	South
Turner	turn	125	63	14	South
Union	unin	127	64	14	South
Walworth	wlth	129	65	14	North
Yankton	yank	135	68	14	South
Ziebach	zieb	137	69	14	North

# **MICROSTATION SYMBOLOGY**

## ***Drafter***

SYMB - 2	Curb and Gutter Project Layout	cgPCN#.dgn
SYMB - 2	Drafter Project Layout	dPCN#?.dgn
SYMB - 3	Plan Sheet	STA.dgn
SYMB - 4	Erosion Control Plan Sheet	STAec.dgn
SYMB - 4	Title Sheet for Project	title.dgn
SYMB - 4	Section B Cover Sheet	titleb.dgn
SYMB - 4	Typical Section Sheets for Project	typ.dgn
SYMB - 5	Text sizes for plan sheets	

## ***Engineer***

SYMB - 6	Contours & Triangles Project Layout	cPCN#.dgn
SYMB - 7	Engineer's Project Layout	ePCN#.dgn
SYMB - 8	Pipe Sheets for Project	pPCN#.dgn
SYMB - 8	Cross Section Sheets for Project	xPCN#.dgn

## ***R.O.W***

SYMB - 9	ROW Project Layout	rPCN#.dgn
SYMB - 10	Plat	STAp.dgn
SYMB - 10	Exhibits	STAe.dgn

## ***TOPOG***

SYMB - 11	Topography Project Layout	tPCN#?.dgn
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## ***Traffic***

SYMB - 13	Signal Wiring Diagram	STAw.dgn
SYMB - 13	Lighting Wiring Diagram	STASTAw.dgn
SYMB - 13	Conduit Sheet	STAc.dgn
SYMB - 13	Lighting Sheet	STASTAl.dgn
SYMB - 13	Pavement Marking Sheet	STApm.dgn
SYMB - 13	Existing Signal Sheet	STAs.dgn
SYMB - 13	Signal Sheet	STAs.dgn

## Levels, Color, Weight & Style For Drawings

ALL LINE STYLES ARE A STYLE OF 0 IF NOT SPECIFIED

<i>cgPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
CONSTRUCTION CENTERLINE	1	6	5	0	
STATION & TICK MARKS	2	6	2	0	
PT & RADIUS POINTS	9	2	1	0	
STATION TEXT	9	2	1	0	
SHOULDER	16	4	1	0	
EDGE OF CONCRETE	17	0	1	0	
DRIVEWAYS	18				
CURB & GUTTER	19	2	1	0	
TYPE P GUTTER DRIVEWAY DIMENSIONS	19	2	1	0	
SIDEWALK	19	2	1	0	
APPROACH PAVEMENT	21	2	1	0	
FILLETS	24	2	1	0	
MOUNTABLE MEDIAN PAVEMENT	25				
ASPHALT AREAS	26				
SPECIAL TYPES OF PAVEMENT	27				
RETAINING WALLS	30	112	3	0	
BRIDGES OR BOX CULVERETS	30	77	Varies	0	
EASEMENT NOTES	31	24	2	0	
	42				

<i>dPCN#r.dgn</i>	<i>dPCN#s.dgn</i>	<i>dPCN#u.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
MAINLINE HORIZONTAL ALIGNMENT			1	6	5	0	
MAINLINE HORIZONTAL STATIONING			2	6	2	0	
MAINLINE HORIZONTAL BEARINGS			4	6	2	0	
			10	6	2	0	
DETOUR ALIGNMENT			11	6	5	0	
DETOUR STATIONING			12	6	2	0	
EASEMENT SHAPE			13	3	1	0	
EASEMENT SHADING			13	9		Outline	
DETOUR BEARINGS			14	6	2	0	
			15				
			16				
ENTRANCES			17	2	1	0	
VERTICAL BENCH MARKS			18	6	2	0	BMNOTE
VERTICAL ENTRANCE NOTES			19	2	2	0	

<i>dPCN#r.dgn</i>	<i>dPCN#s.dgn</i>	<i>dPCN#u.dgn</i>	<b>LEVELS</b>	<b>COLOR</b>	<b>WEIGHT</b>	<b>STYLE</b>	<b>CELLS</b>
VERTICAL ALIGNMENT			<b>20</b>	<b>6</b>	<b>2</b>	<b>0</b>	
VERTICAL SPECIAL DITCH GRADE (LEFT)			<b>20</b>	<b>31</b>	<b>2</b>	<b>0</b>	
VERTICAL SPECIAL DITCH GRADE (RIGHT)			<b>20</b>	<b>30</b>	<b>2</b>	<b>0</b>	
VERTICAL ELEVATIONS			<b>21</b>	<b>6</b>	<b>2</b>	<b>0</b>	
VERTICAL STATIONING			<b>22</b>	<b>6</b>	<b>3</b>	<b>0</b>	
VERTICAL SIDE ELEVATIONS (LEFT/RIGHT)			<b>10-R/23 L</b>				
VERTICAL EARTHWORK NOTES & HAUL NOTES			<b>23</b>	<b>10</b>	<b>2</b>	<b>0</b>	
VERTICAL GRADES			<b>24</b>	<b>6</b>	<b>2</b>	<b>0</b>	
VERTICAL CURVE DATA			<b>25</b>	<b>6</b>	<b>2</b>	<b>0</b>	
VERTICAL SPECIAL DITCH GRADE NOTES (LEFT)			<b>25</b>	<b>31</b>	<b>2</b>	<b>0</b>	
VERTICAL SPECIAL DITCH GRADE NOTES (RIGHT)			<b>25</b>	<b>30</b>	<b>2</b>	<b>0</b>	
FENCE			<b>26</b>	<b>5</b>	<b>1</b>	<b>0</b>	
			<b>27</b>				
			<b>28</b>				
			<b>29</b>				
DRAINAGE ARROWS, DITCH BLOCKS, DITCH BLOCK NOTES & FLOWLINE ELEVATIONS			<b>30</b>	<b>77</b>	<b>Varies</b>	<b>0</b>	
PIPE, BOX CULVERTS & STRUCTURES			<b>30</b>	<b>77</b>	<b>8</b>	<b>0</b>	
PERIMETER (WORK LIMITS)			<b>32</b>	<b>2</b>	<b>0</b>	<b>2</b>	
			<b>49</b>				
PROFILE BORDER			<b>50</b>	<b>3</b>	<b>2</b>	<b>0</b>	
PROFILE GRID			<b>51</b>				
PROFILE GRID			<b>52</b>	<b>0</b>	<b>0</b>	<b>1</b>	
			<b>53</b>				

<i>STA.dgn</i>	<b>LEVELS</b>	<b>COLOR</b>	<b>WEIGHT</b>	<b>STYLE</b>	<b>CELLS</b>
ROW INFORMATION & SECTION, TOWNSHIP RANGE	<b>20</b>	<b>50/6</b>	<b>Varies</b>	<b>Varies</b>	
LANDOWNER NAMES & LEGAL DESCRIPTION	<b>33</b>	<b>50</b>	<b>Varies</b>	<b>Varies</b>	
CURVE DATA	<b>34</b>	<b>6</b>	<b>2</b>	<b>0</b>	
NORTH ARROW	<b>35</b>	<b>25</b>	<b>3</b>	<b>0</b>	
INSTALL NOTES	<b>36</b>	<b>77</b>	<b>2</b>	<b>0</b>	
RETAIN NOTES	<b>36</b>	<b>10</b>	<b>2</b>	<b>0</b>	
DO NOT DISTURB NOTES	<b>36</b>	<b>2</b>	<b>2</b>	<b>0</b>	
TAKE OUT NOTES	<b>37</b>	<b>2</b>	<b>2</b>	<b>0</b>	
EASEMENT NOTES & EASEMENT STATION OFFSETS	<b>38</b>	<b>3</b>	<b>1 &amp; ROW/2</b>	<b>0</b>	
FENCE NOTES	<b>39</b>	<b>5</b>	<b>2</b>	<b>0</b>	
OBLITERATE NOTES	<b>40</b>	<b>2</b>	<b>2</b>	<b>0</b>	
ELIMINATE ENTRANCE NOTES	<b>40</b>	<b>2</b>	<b>2</b>	<b>0</b>	

<i>STAec.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
EROSION CONTROL DRAWINGS & NOTES	20				
PLOT SHAPE	45				
REVISION NOTES	59				

<i>title.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
NORTH ARROW	2	25	0	0	NARROW
INDEX	11	10			
SECTIONS <u>XX</u>	12				
BEGIN AND END NOTES WITH LEADER & ARROW	15	6	Varies	0	
PCN#S	20	10	5	0	
GROSS LENGTH	20	10	2	0	
PROJECT,LEADER & ARROW	20	10	Varies	0	
PROJECT TITLE DESCRIPTIONS	20	0	1	0	
STATE OF SOUTH DAKOTA	20	0	0	0	
LEGEND	20	10	1	0	
LENGTH OF EXCEPTION	21	10	2	0	
DESIGN DESIGN.,STORM WATER PERMIT & SCALES	21	10	1	0	
INDEX OF SECTIONS	21	10	3	0	
INDEX OF SECTION NOTES	21	10	2	0	
ROW SCALES	22	3	1	0	
R.O.W. TITLE DESCRIPTIONS	22	3	5	0	
NOTES FOR ROW PLANS	22	3	5	0	
STATE MAP	38	10	1	6	
PLOT SHAPE	45	2	0	7	NAME
REVISION NOTE	59	10			

<i>titleb.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
SECTION B TITLE	1	10	5	0	
NORTH ARROW	2	25	Varies	0	NARROW
INDEX OF SHEETS	21	10	3	0	
INDEX OF SHEETS CONTEXT	21	10	1	0	
BEGIN & END PROJECT AND NOTES	59	6	2	0	

<i>typ.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
ALL DRAWINGS,and\or DRAWING CELLS	21	2	2	0	
TEXT and\or TEXT CELLS	22	4	2	0	VARIES
PLOT SHAPES	45	2	0	7	NAME

*The Settings Set Refer to Text For Easements, Easement Notes & ROW  
Font=Arial*

<i>DESCRIPTION</i>	<i>SCALE</i>	<i>Color</i>	<i>HEIGHT</i>	<i>WEIGHT</i>	<i>SPACING</i>
<b>RURAL</b>	<b>200</b>	<b>Varies</b>	<b>18</b>	<b>0</b>	<b>7</b>
<b>For Rural Plan Sheets-Station &amp; Offset for Temporary Easements and for Permanent R.O.W. USE</b>					
<b>Easement Station &amp; Offset</b>		<b>3</b>	<b>15</b>	<b>0</b>	<b>7</b>
<b>{Proposed} Permanent R.O.W.</b>		<b>10</b>	<b>15</b>	<b>0</b>	
<b>Easement Notes</b>		<b>3</b>	<b>18</b>	<b>0</b>	
<b>Labeling the Section - Township - Range</b>		<b>50</b>	<b>30</b>	<b>0</b>	
<b>Utilize text 18 &amp; for the rest of the R.O.W. information with the exception to text for lots, blocks, etc. Check with Gene or Cindy on R.O.W.</b>					
<b>SUBURBAN</b>	<b>100</b>	<b>Varies</b>	<b>9</b>	<b>0</b>	<b>3.5</b>
<b>For Suburban Plan Sheets-Station &amp; Offset for Temporary Easements and for Permanent R.O.W. USE</b>					
<b>Easement Station &amp; Offset</b>		<b>3</b>	<b>7.5</b>	<b>0</b>	<b>3.5</b>
<b>{Proposed} Permanent R.O.W.</b>		<b>10</b>	<b>7.5</b>	<b>0</b>	
<b>Easement Notes</b>		<b>3</b>	<b>9</b>	<b>0</b>	
<b>Labeling the Section - Township - Range</b>		<b>50</b>	<b>15</b>	<b>0</b>	
<b>Utilize text 9 for the rest of the R.O.W. information with the exception to text for lots, blocks, etc. Check with Gene or Cindy on R.O.W.</b>					
<b>URBAN</b>	<b>40</b>	<b>Varies</b>	<b>3.6</b>	<b>0</b>	<b>1.5</b>
<b>For Urban Plan Sheets-Station &amp; Offset for Temporary Easements and for Permanent R.O.W. USE</b>					
<b>Easement Station &amp; Offset</b>		<b>3</b>	<b>3</b>	<b>0</b>	<b>1.5</b>
<b>{Proposed} Permanent R.O.W.</b>		<b>10</b>	<b>3</b>	<b>0</b>	
<b>Easement Notes</b>		<b>3</b>	<b>3.6</b>	<b>0</b>	
<b>Labeling the Section - Township - Range</b>		<b>50</b>	<b>6</b>	<b>0</b>	
<b>Utilize text 3.6 for the rest of the R.O.W. information with the exception to text for lots, blocks, etc. Check with Gene or Cindy on R.O.W.</b>					

<i>cPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
ORIGINAL CONTOURS - MAJOR		4	1	0	
ORIGINAL CONTOURS - MINOR	10	3	0	5	
SUBGRADE CONTOURS - MAJOR		4	1	0	
SUBGRADE CONTOURS - MINOR	11	3	0	5	
UNDERCUT CONTOURS - MAJOR		4	1	0	
UNDERCUT CONTOURS - MINOR	12	3	0	5	
FINISH GRADE CONTOURS - MAJOR		4	1	0	
FINISH GRADE CONTOURS - MINOR	13	3	0	5	
ORIGINAL TRIANGLES	20	2	0	0	
SUBGRADE TRIANGLES	21	3	0	0	
UNDERCUT TRIANGLES	22	4	0	0	
FINISH GRADE TRIANGLES	23	6	0	0	
PROFILE LINES	27				
DATUM LINES	28				
GRIDDED MODEL GRID - ORIGINAL		2	0	0	
GRIDDED MODEL GRID - SUBGRADE		3	0	0	
GRIDDED MODEL GRID - UNDERCUT	29	4	0	0	
GRIDDED MODEL GRID - FINISH		6	0	0	
DTM POINT ELEVATIONS-DTM					
RANDOM SYMBOLS & CELLS	32				
DTM BREAKLINE SYMBOLS, CELLS & LINES	33				
DTM CONTOUR SYMBOLS, CELLS & LINES	34				
DTM INFERRED SYMBOLS, CELLS & LINES	35				
DTM INTERIOR SYMBOLS, CELLS & LINES	36				
DTM EXTERIOR SYMBOLS, CELLS & LINES	37				
COLOR-CODED ELEVATIONS	44				
COLOR-CODED ELEVATIONS LEGEND & FRAME	45				
COLOR-CODED SLOPES	46				
COLOR CODED SLOPE LEGEND TEXT & FRAME	47				
SLOPE VECTORS & DIRECTION	50				
SEGMENT CROSSING POINT	51				
MISMATCHED ELEVATION	52				

<i>ePCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
MAINLINE HORIZONTAL ALIGNMENT, PC, PT CELLS	<b>1</b>				
MAINLINE HORIZONTAL STATIONING TICKS & TEXT	<b>2</b>				
MAINLINE HORIZONTAL PC, PT LEADERS & TEXT	<b>3</b>				
MAINLINE HORIZONTAL BEARINGS	<b>4</b>				
MAINLINE HORIZONTAL CURVE DATA	<b>5</b>				
PROFILE GRID (NOT USED)	<b>16</b>				
PROFILE GRID (NOT USED)	<b>17</b>				
PROFILE GRID (NOT USED)	<b>18</b>				
PROFILE GRID (NOT USED)	<b>19</b>				
VERTICAL ALIGNMENT, PC, PT CELLS	<b>20</b>				
VERTICAL PROFILE ELEVATIONS	<b>21</b>				
VERTICAL STATIONS	<b>22</b>				
VERTICAL SIDE ELEVATIONS	<b>23</b>				
VERTICAL GRADES	<b>24</b>				
VERTICAL CURVE DATA	<b>25</b>				
EASEMENT SHADING	<b>28</b>				
EASEMENT NOTES	<b>29</b>				
DRAINAGE	<b>30</b>				
PERIMETER (WORK LIMITS)	<b>32</b>				
ENTRANCES	<b>34</b>				
SPECIAL DITCH TEXT	<b>35</b>				
SPECIAL DITCH CELLS & SYMBOLS	<b>36</b>				
PROFILE TITLE TEXT, BOX & AXIS	<b>50</b>				
PROFILE LEGEND TEXT & BOX	<b>51</b>				
PROFILE GRID	<b>52</b>				

<i>pPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TITLE BOX	1				
PIPE END TREATMENT	30	4	1	0	Varies
PIPE FLOWLINE & TOP	31	77	1	0	
PIPE TEXT	32	77	1	0	
PLOT SHAPE	45	2	0	7	
CROSS SECTION FIRST SURFACE - ORIGINAL	50				
CROSS SECTION SECOND SURFACE - SUBGRADE	51				
CROSS SECTION THIRD SURFACE - UNDERCUT	52				
CROSS SECTION FOURTH SURFACE - FINISH	53				
CROSS SECTION FIFTH SURFACE	54				
SHEET TITLE & AXIS-CROSS SECTION ANNOTATION	60				
CROSS SECTION GRID	62	0	0	1	
<i>xPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
EXCAVATION SHAPE	20	4	1	0	
EXCAVATION SHADE - UNSTABLE MATERIAL		4	1	0	
EXCAVATION SHADE - MUCK	21	6	1	0	
EXCAVATION TEXT - UNSTABLE MATERIAL		4	1	0	
EXCAVATION TEXT - MUCK	22	6	1	0	
ANNOTATION CROSS SECTION - ELEV		4	2	0	
ANNOTATION CROSS SECTION - OFFSET	40	27	2	0	
PLOT SHAPE	45	2	0	7	
CROSS SECTION FIRST SURFACE - ORIGINAL	50	2	2	2	
CROSS SECTION SECOND SURFACE - SUBGRADE	51	3	2	0	
CROSS SECTION THIRD SURFACE - UNDERCUT	52	4	2	3	
CROSS SECTION FOURTH SURFACE - FINISH	53	6	2	0	
CROSS SECTION FIFTH SURFACE	54				
MASS HAUL DATA LINE	55	2	1	0	
MASS HAUL TITLE TEXT		4	0	0	
MASS HAUL AXIS	56	3	2	0	
MASS HAUL LABEL		77	0	0	
MASS HAUL GRID - HORIZONTAL		0	0	1	
MASS HAUL GRID - VERTICAL	58	0	0	1	
CROSS SECTION ADDITIONAL SURFACES	59				
AXIS ANNOTATION		3	2	0	
GRID STATION ANNOTATION	60	7	2	0	
CENTERLINE ELEV ANNOTATION		6	2	0	
CROSS SECTION GRID	62	0	0	1	

<i>rPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>TEXT R / U</i>	<i>CELLS</i>
MAINLINE HORIZONTAL ALIGNMENT, PC, PT	1	6	5		
MAINLINE HORIZONTAL STATIONING TICKS & TEXT	2	6	2	18 / 3.6	
MAINLINE HORIZONTAL PC, PT LEADERS & TEXT	3	6	0	18 / 3.6	
MAINLINE HORIZONTAL BEARINGS	4	6	2	18 / 3.6	
MAINLINE HORIZONTAL CURVE DATA	20	6	2	30 / 6	
CROSSROAD HORIZONTAL ALIGNMENT, PC, PT CELLS	7	6	5		
CROSSROAD STATIONING TICKS & TEXT	8	6	2		
CROSSROAD HORIZONTAL PC, PT LEADERS & TEXT	9	6	0		
CROSSROAD HORIZONTAL BEARING	10	6	2		
CROSSROAD HORIZONTAL CURVE DATA	11	6	2	30 / 5	
TEMPORARY EASEMENT CROSS HATCH AREA	13	3	0	LINE STYLE = 1	
RAILROAD TRACKS	14	50	1		
LINE TEXT FOR BEARINGS & DISTANCE ALONG A LINE	15	50	0	18 / 3.6	
ASSUMED CORNERS	16	7	1	18 / 3.6	
FOUND CORNERS	17	3	1	18 / 3.6	
EXISTING POINTS	18	50	0	18 / 3.6	
PROPOSED POINTS	19	9	0	18 / 3.6	
LABELING SECTION – TOWNSHIP – RANGE	20	50	5	30 / 6	
STATIONING FOR SECTION LINE, ¼ LINE Etc.	20	6	2	18 / 3.6	
LABELING R.O.W. DIMENSION FOR PLANS, SECTION LINES, ¼ LINES, Etc. AND CITY LIMITS, RESERVATIONS, & GOV'T TAKE LINES	20	50	2	18 / 3.6	
CONTROL OF ACCESS	21	10			NEW / EXIST
COUNTY LINES	22	50	5		
SECTION LINES	23	50	4		
QUARTER LINES	24	50	3		
MEANDER LINES	25	5	2		
EXISTING R.O.W. LINES (HIGHWAY R.O.W. BLOCK ADDITIONS & SUBDIVISION LINES)	25	50	0		
SIXTEENTH LINES	26	50	1		
NEW R.O.W. LINES (PROPOSED HIGHWAY R.O.W. LINES)	27	9	1		
PROPERTY LINES	28	50	2		
STATE LINES / CITY LIMITS	29	50	5 / 0		
LANDOWNER NAMES & LEGAL DESCRIPTION	33	50	2	18 / 3.6	
PERMANENT ROW STATION OFFSET	38	10	2	15 / 3	
ROW Default Elements	51	39	5		
MISCELLANIOUS	59	Varies	Varies	Varies	
AREA NUMBERS	60	Varies	Varies	Varies	
ROW Main Points	62	6	2	18 / 3.6	
Area Shapes	63	6	3		

**MISC.-LEVELS NEEDED ON FROM THE TPCN#\*.DGN FILE TO ESTABLISH EXISTING RIGHT OF WAY**

(7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 25, 29, 31, 35, 52 & 56)

<i>STAp.dgn &amp; STAe.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>TEXT 300 SCALE</i>	<i>CELLS</i>
GEN. REPORT\NEW & EXIST AREA\LEGAL DESC. SHADING, X HATCHING	<b>1</b>	<b>4 9</b>	<b>2 0</b>	<b>30</b>	
BORDER \ CURVE DATA \ NEW & EXIST R.O.W. DIMENSIONS \ PROPERTY DESCRIPTION	<b>20</b>				
PLOT SHAPE	<b>45</b>	<b>2</b>	<b>0</b>	<b>9</b>	<b>NAME</b>
SHAPES	<b>63</b>				

<i>tPCN#r.dgn</i>	<i>tPCN#s.dgn</i>	<i>tPCN#u.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
AZIMUTH MARKERS REFERENCE MARKS TRIANGULATION STATIONS			1	6 0 6			AZIMKR REFMRK TRISTA
BENCH MARKS			2	6			BNCHMK
RETAINING WALLS			7	10	6	0	
EDGE OF OTHERS EDGE OF SHOULDERS			9	47 195	0 0	0 3	
CENTERLINES			10	28			
EDGE OF CONCRETE EDGE OF ASPHALT CONCRETE SYMBOLS			11	10 44 10	0 0	0 0	CONC
APPROACHES \ EDGE OF GRAVEL			12	90	0	0	
CURB & GUTTER \ CURB \ GUTTER			13	10	1	Varies	
RAILROADS			14	50	Varies	Varies	VARIES
SIDEWALKS			15	10	0	0	
ASSUMED CORNERS			16	7			ACORN
FOUND CORNERS			17	3	1	0	BARCAP
BEARING TREE			17	3	1	0	BTREE
RAILROAD PROFILE			18	4	0	0	
BUSHES \ TREES			21	3	1	0	VARIES
FENCE			25	19	0 \ 1	Varies	
GUARDRAIL			27	19	1	GRAIL	
DAM GRADES\DIKE\LEVEE DITCH BLOCKS			29	31 31	1	0	DTCHBK
DRAINAGE PROFILES \ IRRIGATION DITCHES			30	31	2	4 \ 1	
LAKES EDGE CREEK EDGE \ RIVER EDGE SPRING STREAM GAUGE			31	31 31 31	1 2	3 5 \ 7	SPRING STMGAG
SLOUGHS OR MARSHES			32	31			SLOUGH
PIPES STORM SEWERS			33	31 25	1 1	Varies STSEWR	VARIES
BOX CULVERTS AND BRIDGES WINGWALLS			35	31 31	1 3	0 0	
UNDERGROUND ELECTRICAL UTILITIES			40	2	1	UNELEC	VARIES
UNDERGROUND GAS UTILITIES			41	4	0 or 1	VARIES	VARIES
UNDERGROUND TELEPHONE UTILITIES			42	18	1	VARIES	VARIES
UNDERGROUND WATER UTILITIES			43	31	1	UNWATR	VARIES
SANITARY SEWER			44	25	1	SANSEWR	VARIES
PUBLIC TELEPHONES			46	18	1	0	PUBTEL

<i>tPCN#r.dgn</i>	<i>tPCN#s.dgn</i>	<i>tPCN#u.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TELEPHONE POLES				<b>18</b>	<b>1</b>	<b>0</b>	<b>TELPOL</b>
TELEVISION CABLE JCT. BOX	<b>47</b>			<b>18</b>	<b>1</b>	<b>0</b>	<b>TVBOX</b>
TELEVISION TOWER				<b>18</b>	<b>0</b>	<b>0</b>	<b>TVTWER</b>
MISC.MANHOLE	<b>48</b>			<b>17</b>	<b>1</b>	<b>0</b>	<b>MISCMH</b>
ABOVE GROUND UTILITIES	<b>49</b>			<b>2</b>	<b>1</b>	<b>0</b>	<b>POWERP</b>
TRAFFIC SIGNALS	<b>50</b>			<b>2</b>	<b>1</b>	<b>0</b>	<b>TRASIG</b>
BUILDING	<b>52</b>			<b>17</b>	<b>1</b>	<b>0</b>	
GRAIN BINS				<b>17</b>			<b>GRNBIN</b>
MAILBOXES	<b>53</b>			<b>17</b>	<b>1</b>	<b>0</b>	<b>MAILBX</b>
BULK TANKS	<b>54</b>			<b>4</b>	<b>1</b>	<b>0</b>	<b>BULKTK</b>
GAS PUMP ISLAND	<b>54</b>			<b>4</b>	<b>0</b>	<b>GASISL</b>	
UNDERGROUND TANKS	<b>54</b>			<b>4</b>			<b>UNTANK</b>
SIGNS \ STREET MARKERS	<b>55</b>			<b>17</b>	<b>0</b>	<b>0</b>	<b>STMRK</b>
MISC. TOPOGRAPHY	<b>56</b>				<b>Varies</b>	<b>Varies</b>	<b>Varies</b>
ROUTE SIGNS	<b>57</b>			<b>3</b>			<b>Varies</b>
WARNING SIGNS	<b>58</b>			<b>2</b>			<b>Varies</b>
INFORMATION SIGNS	<b>59</b>			<b>19</b>			<b>Varies</b>
TEST WELLS \ BORE HOLES	<b>60</b>			<b>4</b>			<b>TSTWLL</b>
DSCON LINES	<b>62</b>			<b>0</b>	<b>0</b>	<b>0</b>	
GROUND SHOTS	<b>63</b>			<b>0</b>			

<i>STAw.dgn</i>	<i>STASTAw.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
DRAWING TEXT		38	5 5	1 1	0 or 1 0	Varies
PLOT SHAPE		45	2	0	7	NAME

<i>STAc.dgn</i>	<i>STASTAl.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
EXISTING SIGNAL POLE / EXISTING CONTROLLER		35	100	1	0	SPOLEX CONTRX
LUMINAIRE / LUMINAIRE POLE		36	0 or 2	1	0	Varies
MAST ARM		37	100	1	0	Varies
CONDUIT TEXT		38	101 5	4 1	0 or 1 0	Varies
SIGNAL POLE		39	100	1	0 or 1	SPOLE
MASKING CELLS PEDESTRIAN / DETECTOR LOOP		40	Varies Varies	Varies 1	Varies 0 or 1	Varies Varies
CONTROLLER / SERVICE CABINET		41	26 or 100	1	0 or 1	Varies
JUNCTION BOX / EXISTING JUNCTION BOX		42	100	1	0 or 1	Varies
SECONDARY CONDUIT		43	101	4	0 or 1	Varies
SECONDARY JUNCTION BOX		44	100	1	0 or 1	Varies
PLOT SHAPE		45	2	0	7	NAME

<i>STAp.m.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TEXT	38	5	1	0	
MASKING CELLS	40	Varies	Varies	Varies	Varies
PLOT SHAPE	45	2	0	7	NAME
PAVEMENT MARKING LINES - INTERSTATE	54	8 or 20	4	0	Varies
PAVEMENT MARKING LINES	55	8 or 20	4	0	Varies

<i>STAs.dgn</i>	<i>STAs.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TEXT		38	5	1	0	
MASKING CELLS		40	Varies	Varies	0 or 1	Varies
PLOT SHAPE		45	2	0	7	NAME