

## ***A Guide to the Preparation of Plot Plans & Summary Sheets***

Office of Right of Way, Right of Way Design Section    DATE: 03/18/08

This information is intended as a guide for the construction of plot plans and summary sheets, additional information can be found in the *Office of Right of Way Design Manual*.

The purpose of the plot plan is to help the property owner better understand the impacts of the proposed acquisition as related to the specific property. The plot plan is also a requirement of the appraisal process. Technical information should be obtained from the plan set, survey plat or other supporting documents.

The plot plan shows the area of acquisition in relation to the property as a whole, thus the entire property limits must be indicated. If the ownership limits are too extensive to fit on the plot plan, a small insert (thumbnail sketch) may be necessary (see directions in the “*Technical Aid For The Construction of Plot Plans*”). This should however be utilized rarely and only as a last resort. Also in some cases it may be necessary to have 2 plot plans (1 of 2 & 2 of 2), again, this should be avoided if possible.

### **SCALES**

All plot plans are to be one of the following sizes unless otherwise approved:

- 1 inch = 800 ft. (full section)
- 1 inch = 400 ft. (1/4 section)
- 1 inch = 200 ft. (1/4,1/4 section)
- 1 inch = 100 ft. (urban areas)

In the case of a acreage it is recommended that a scale such as 1 inch = 200 ft. be used. This will allow the proposed right of way to be clearly seen. When this is done it will be necessary to label the 1/41/4 section and a corner – preferably a section corner if possible.

### **TEMPORARY EASEMENTS**

All temporary easements must have a note stating their specific purpose. The note should include area of the temporary easement. When temporary easements are used for detours or access ways during construction the acreage will be provided on the summary sheet since the area encompassed will be utilized for an extended period of time.

### **ACCESS POINTS AND ACCESS CONTROL**

Access locations must be indicated by a bold arrow, see example, and a station call is to be provided at each location. This station location is to match the Access Control Letter except at property line locations where the station call may differ slightly and have a plus or minus sign behind it. County road locations will be listed as access locations but are not considered entrances.

When access control has been acquired previously it should be noted as such in the comment section with the relevant book and page number for reference (a copy of the document is to be included in the file). When we are changing a previously reserved

access location we will note the previously reserved location in both old and new stationing as such: “ *CLOSE ACCESS LOCATION AND ENTRANCE PREVIOUSLY RESERVED AT STATION \_\_\_ (OLD STA.) \_\_\_ (NEW STA.) BK\_\_\_ PG\_\_\_*”.

Access control stationing that is listed on the Summary Sheet shall be located on the plot plan so that the access control limits are clear and easily understood.

Access locations that are designated as “future” will be placed in the Access Control area with an asterisk, there will not be an entrance listed for the access point. In the comment section next to an asterisk place a note stating: “*ACCESS NOT TO BE CONSTRUCTED WITH THIS PROJECT. FUTURE ACCESS CAN BE OBTAINED VIA PERMIT PROCESS*”.

### **ENTRANCES**

All entrances that are to be closed shall be noted as such in the comment section with the statement: “*CLOSE ENTRANCE LOCATED AT STATION \_\_\_.*”

Entrances are not addressed on the plot plan.

### **LABELING**

Existing and proposed centerlines are to be shown and labeled, do not show slabs. Also any station equations for the proposed centerline should be labeled.

When a Section Center is located on the plot plan it is not necessary to label section corners or ¼ corners.

All text should be oriented with the sheet or 90 degrees counter clockwise to the sheet.

A north arrow must be placed on each plot plan.

### **USE OF PHOTO FILE**

The photo file is to be used to show buildings, streams, and railroad lines **only**, if other information is desired it can be obtained from the plan sheets or additional sources. There are times that the building site will be away from our construction area and will not be available in the photo file. In this case the building site is to be indicated with a dashed line around the perimeter and labeled as such. An attempt should be made to locate the site with aerials or other available information.

### **PROPERTY LINES**

The entire property limits must be indicated on the plot plan. If the ownership is too extensive to fit on the plot plan a small insert (thumbnail sketch) will be necessary to indicate the total ownership (see directions towards back of packet). In some cases it will be necessary to have two plot plans.

### **URBAN PLOTS**

Urban plot plans need to indicate the appropriate lot, block, subdivision and city involved with the acquisition area.

### **EXCESS LAND**

The plot plan will include future right of way lines since they are on the same level as the proposed right of way lines, however, this line is not to be stationered or labeled on the plot plan. The summary sheet is to include the acreage breakdown for excess land, borrows etc.

### **EASEMENTS**

Significant existing easements such as pipeline easements, ingress/egress easements etc. should be shown on the plot plan and addressed in the comment section of the summary sheet. Other common easements such as telephone and waterline easements do not need to be addressed.

### **DRAINAGE DISTRICTS**

Drainage districts do not require a plot plan. All information is contained in the summary sheet. In the comment section note the person or entity that has control of the drainage district and the respective telephone number, also list the type, size and location of the existing structure and the type, size and location of the proposed structure. The intent is to enable the Agent to explain to the responsible party what is happening in regard to the drainage district and obtain an agreement with them.

### **RAILROADS**

Railroads do not require a plot plan. The summary sheet should contain information indicating the type of acquisition sought whether it is of a permanent or temporary nature. The intent is to enable the agent to explain our design and impact to the railroad so that an agreement can be obtained.

### **ADDITIONAL LENGTH OF DRIVE**

Additional length of drive is required when the existing entrance **to a residence** is being closed and a new relocated (longer) entrance is to be constructed. This is figured as a linear distance along centerline and is determined by measuring the difference between a common point of the existing and proposed entrance and the existing and proposed right of way lines respectively.

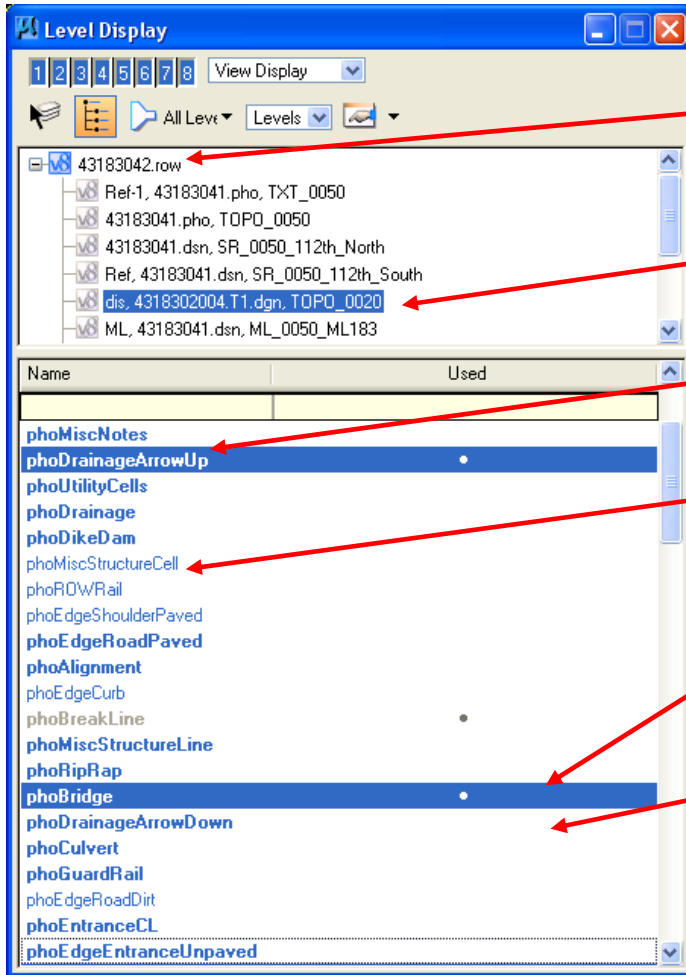
Both the plot plan and summary sheet are to include a location path so they can be easily accessed.

This information is intended as a guide in the construction of plot plans and summary sheets additional information can be found in the Right of Way Design Manual.

# TECHNICAL AID FOR THE CONSTRUCTION OF PLOT PLANS

## 1. -----Aligning plt file to correct location-----

- i. Open the level display manager: Press <F3> or  
(Menubar): **Settings > Level > Display**



The top file is your active file name with all other reference files falling below it in the typical 'Windows' folder structure

By clicking on each of the file names the display below will change and show the files contained within that reference file

Bold text means the level contains elements

Normal text means the dgnlib names the level but no elements have been placed on that level

Highlighted shows that the level is turned ON

Unhighlighted (whited out) shows that the level is turned OFF

- ii. Click on the **00000000.plt** file and turn on **rowdsnPSPlotArea**

*This makes a light blue box appear in the drawing area of the plot plan sheet.*

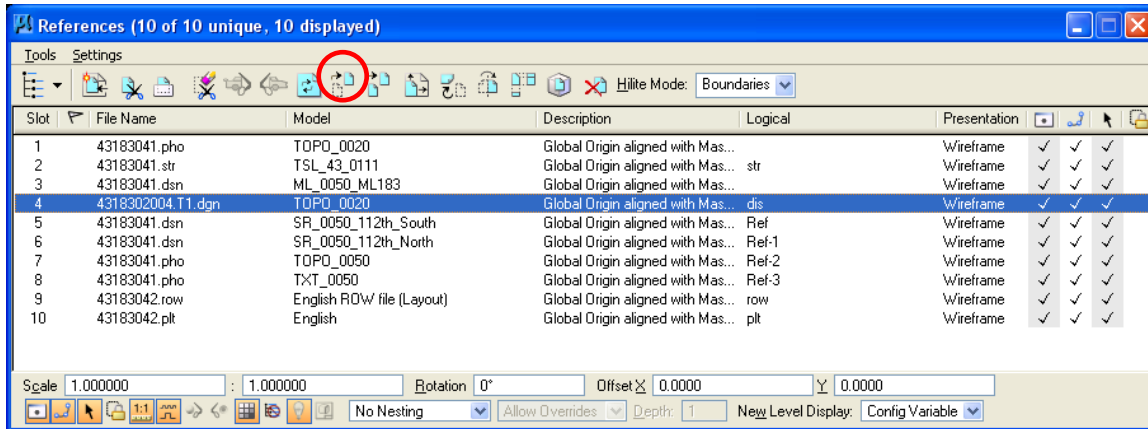
- iii. Using the **copy** command, copy the blue template box and place it over the area where the plat is to be located.

*Be sure the area shows at the very least a section corner, center section, etc. so that customers using the plot plan can determine a definitive location.*

*Now the **plt** file needs to be moved to the location determined by the placing of the blue box.*

2. -----Moving the plt file-----

- i. Using the Reference file dialog box <F1>, choose **Tools > Move** or the **icon** below



- ii. Snap to one of the corners of the blue box of the (.plt) file
- iii. Match blue boxes up by dragging (.plt) file to the area and snap to the corresponding corner of the live copy of the blue box

*The (.plt) file will turn purple once it is placed. It will remain purple until the reset button on the mouse is pressed, thus ending the move reference tool*

- iv. Once positioned correctly delete the active copy of blue box

*If the blue box is not the correct size to show the property, acquisition area, and a section marker, then the (.plt) file will need to be scaled*

3. -----Scaling the plt file-----

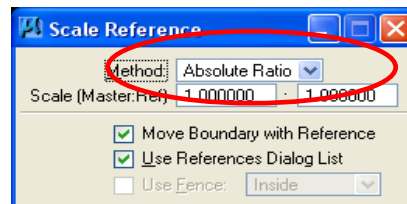
- i. Decide which scale is to be used to most efficiently show ownership, location and taking
- ii. Scale reference (.plt) file, using : 1:1, 2:1, 2.5:1, 5:1, or 10:1 (if metric file)  
1"=100', 200', 400' or 800' (if english file)

**if ownership too large, do thumbnail—see back pages for instructions**

- iii. From the Reference Files Dialog(F1): **Tools > Scale** or the **reference scale icon**



- iv. Change the **Method** type to **Absolute Ratio (Very important)**



- v. To enlarge the (.plt) file change the first number or to down-size the (.plt) file change the second number

- vi. Enter a data point on the design plane to scale about that point

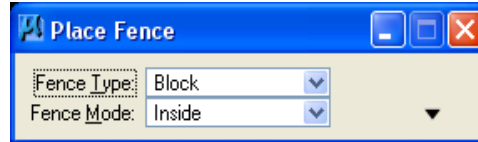
*Towards the bottom of the reference dialog box are 2 entry boxes showing the scale. DO NOT change the scale at this location. It will move the (.plt) to an unknown location*

After re-sizing the (.plt) file some adjustment of location may be needed, refer back to step 2

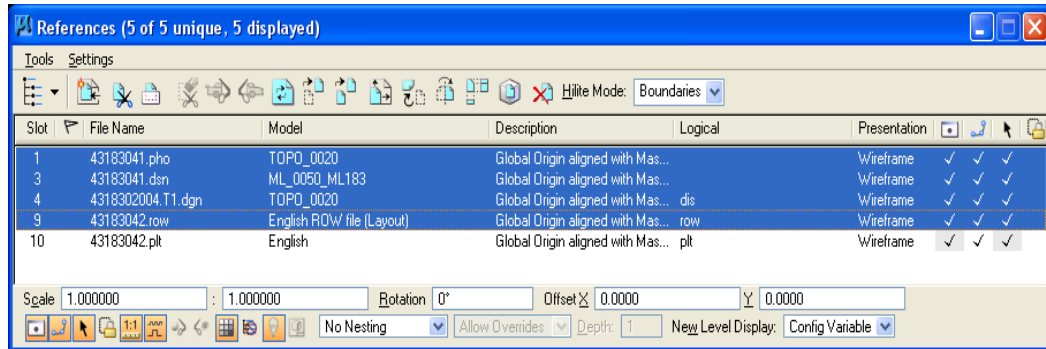
**4. -----Clipping the other ref. files to summary sheet-----**

- i. Choose the **fence** tool & change the fence mode & type to the following:

Fence type: **block**  
 Fence mode: **clip**



- ii. Snap to one of the upper corners of the blue box and accept
- iii. Drag fence to opposite lower corner, snap and accept
- iv. Using the reference dialog box again, highlight **all** files except the (.plt) file by clicking on each file name while holding down the <Ctrl> key



- v. In the Reference Files dialog box, choose **Tools > Clip boundary** or choose the **reference clip icon**



*This will clip all file boundaries to the blue box*

- vi. Shut off fence by clicking fence icon again

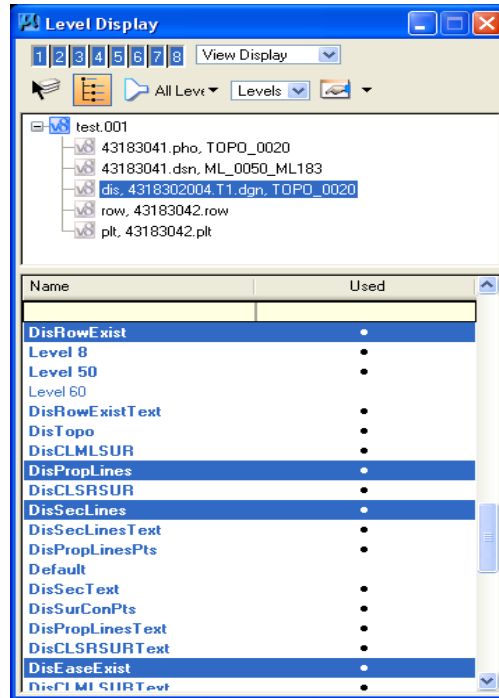
**5. -----Other files & appropriate levels-----**

*Below is a list of the appropriate level names for each of the reference files that need to be turned on (highlighted black). Choose each file separately and turn on/off the levels.*

**Turn on the following levels:**

- i. **District T1 file:**  
 DisRowExist  
 DisSecLines  
 DisPropLines  
 DisSecQuarterLines  
 DisLotLines  
 DisCorpLines

- ii. **(.dsn) file:**  
 dsnAlignment  
 dsnAlignmentTic
- iii. **(.pho) file**  
 phoEdgeBank  
 phoAlignment  
 phoBuilding  
 phoMiscStructureLine  
 phoRailroad
- iv **(.row) file**  
 rowdsnLineProposed  
 rowdsnLineTE  
 rowdsnShapeUF  
 rowdsnShapeTE  
 rowdsnShapePE  
 rowdsnShapeFeeTitle  
 rowdsnStationSRTE  
 rowdsnStationSR  
 rowdsnStationMLTE  
 rowdsnStationML  
 rowdsnSymbolsPL



*Many of the (.row) levels will be shut off in another step, but the above levels should be turned on to start a plot plan and summary*

6. -----Property info-----

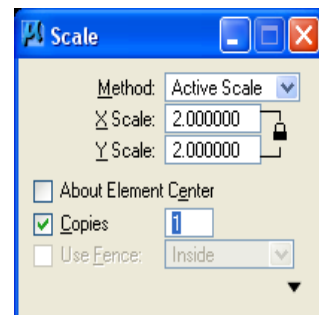
- i. Copy the property lines from **DisPropLines** to **rowdsnPSProperty** using fence copy or copy individual elements
- ii. Press <esc> key which puts cursor in key-in box
- iii. Type **lv=rowdsnPSProperty** and press enter
- iv. Then accept with a click of the mouse
- v. After all property lines pertaining to the parcel are copied, shut off level **DisPropLines**

*The only property lines shown on the plot plan are those of the parcel the user is creating  
 The next step is to put property arrows along the entire shape of the property. This can be accomplished numerous ways. Below is an explanation on how to use the existing property arrows that were put in the (.row) file*

- vi. Using the **scale** tool, scale change to Active scale to match that of the Master:Reference ratio of your (.plt file)

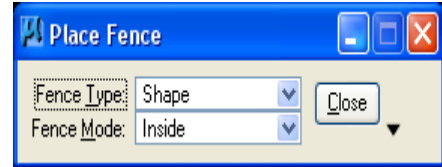
*(i.e. If your (.plt) file was scaled up to 2:1, then set your Active scale to 2 on both 'X' & 'Y')*

- vii. Check the box marked 'Copies' and enter a '1'
- viii. Click on each existing property line and a scaled up copy of the cell will appear. Align it properly along each property line

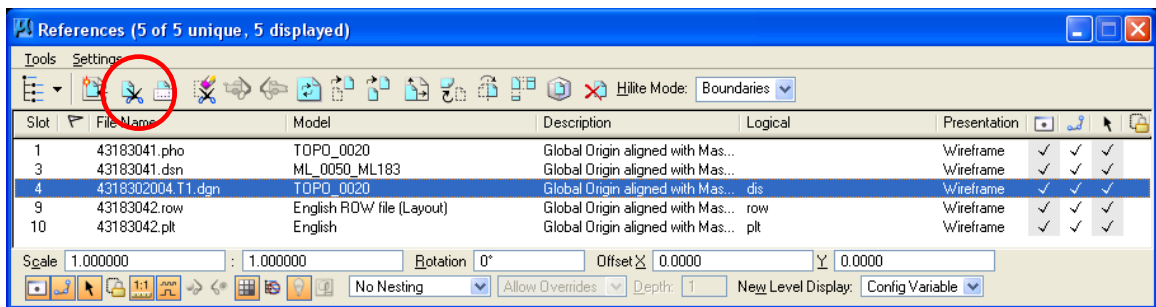


7. -----Finalizing reference files-----

- i. Make sure the ref. File (.row) is highlighted and choose the **fence** command
- ii. Choose fence type **Shape**  
fence mode **Clip**
- iii. Outline the entire property shape with a fence, be sure to close fence
- iv. Use the ref. Files dialog box choose **tools > Clip Boundary**



*Clipping the (.row) file this way will show only the proposed row contained only within the boundaries of that parcel*



- ii. Now highlight only the (.pho) file in the ref. Files dialog box
- iii. Once again choose **fence** command; use the same type and mode as before
- iv. Fence around the entire property boundary and the existing row for all roads
- v. Again choose the **Clip boundary** ref files tool

*The purpose for fencing the (.pho) in this manner is to show not only all buildings, structures etc. contained within the parcel, but also to show all existing centerlines of roadways near and adjacent to the parcel. This helps to specify location of the parcel and shows roadway realignments*

- ii. Shut off the fence by clicking on the fence tool  
*No other clip bounding is necessary to any of the remaining reference files*

8. -----Hatching appropriate areas-----

*The fee title hatching process can now be automated using the specified color and pen tables copied into the project directory at the time of setting up the original project files*

- i. With the **fill** attribute on, turn on the shapes for acquisition  
Reference files (F1): **Settings > Levels**
- ii. Make sure the following levels are turned on in the **row** reference file:

rowdsnShapeTE  
rowdsnShapePE  
rowdsnShapeFeeTitle  
rowdsnShapeUF

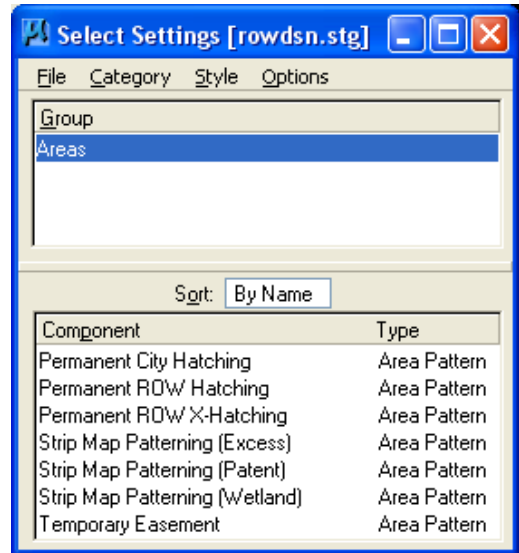


Row level rowdsnShapeFeeTitle will remain on. The plot files specified in IPLOT will recognize the fee title shape attributes, and automatically shade the shape:

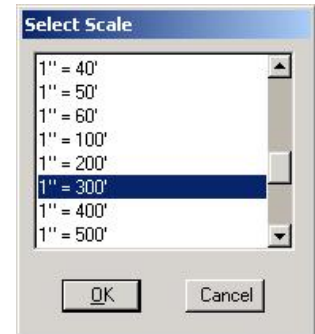
- iii. In the case of T.E , P.E., or city acquisition, follow the steps below using the patterning to from the Settings Manager (F4)

When dealing with a P.E. on a plt file scaled at 100 or 200, simply turning off level rowdsnShapePE, leaving the rowdsnHatchPE on

- iv. Choose the desired patterning style
- v. Choose the appropriate scale by going to Category → Scale (example: plt file is scaled to 3:1, then choose 1" = 300')
- vi. Click OK
- vii. Once again click on the pattern you choose prior to the scaling
- viii. Click on the shape you wish to hatch. ( It should turn gray) Click once more to accept the hatching.



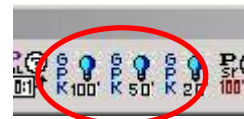
- ix. Once all the shapes are hatched, shut off row reference levels **rowdsnShapeTE and rowdsnShapePE**



9. -----Station Callout Labeling -----

This is a very important part of the plot plan. The station call-outs need to be correct so use the copy procedure discussed below instead of typing out new text  
 This section was written with the stations being put into the ROW file using **GEOPAK**  
 If **GEOPAK** was not used, ask your squad leader for assistance

- i. Using the GPK attributes tools(English/Metric), click on the appropriate scale



This tool will set the correct attributes of the label meaning it sets Level name and all by-level properties

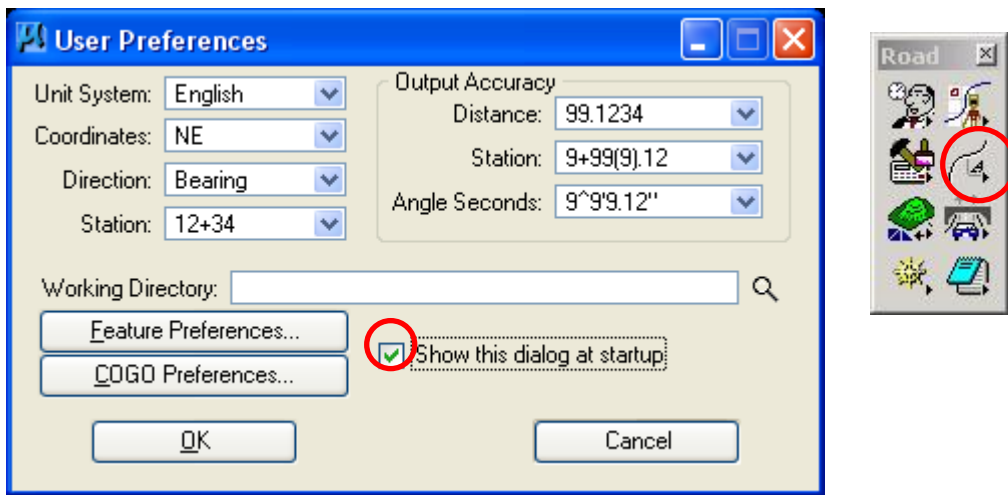
- ii. Make sure all appropriate levels for stationing are turned on.

- iii. Now, using the **copy** command, copy all appropriate station call-outs, using the <esc> key followed by typing **lv=rowdsnPSText** into the key in box

*This step copied the GEOPAK call-outs to active file level rowdsnPSText. Once these elements are active they now can be modified without the danger of file corruption. **DO NOT** try to modify or alter the original call-out. This option can be done, but it will create a bad element in your file and eventually the file will crash.*

*Now the user must open a session of GEOPAK to continue*

- iv. Choose the below pull-down menu:  
**Applications: BENTLEY CIVIL: Activate BENTLEY CIVIL**
- v. The below dialog box should appear., if not select the following pull down menus:  
**Applications: ROAD: User Preferences:**  
**Make sure the “Show this dialog at GEOPAK startup” is CHECKED, if not do so.**

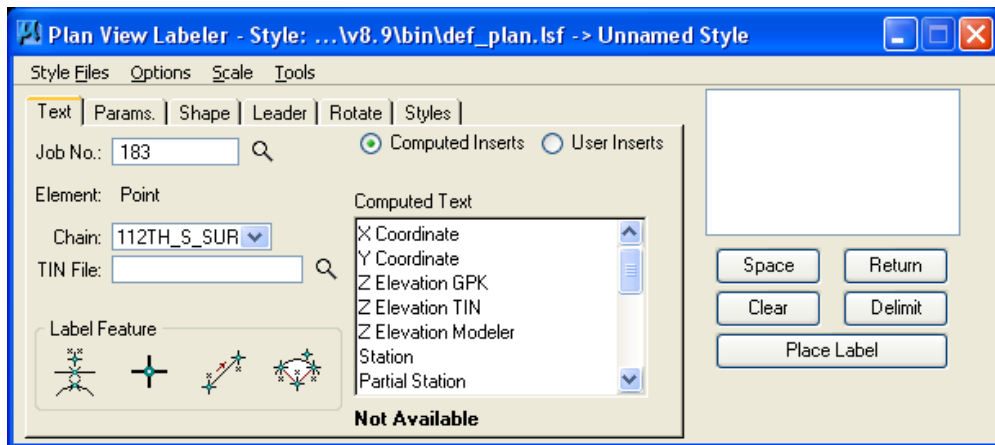


*For the importance of doing plats & summaries, the users DO NOT have to set all projects and/or COGO related preferences (job no., directory no., etc). Although getting into the habit of always changing these preferences is a very good practice. But whenever the user is creating a ROW file, ALWAYS make sure all project preferences are correct.*

***It is very important that for this next step, all station callout levels must be shut off. The reason for this precaution is to be sure that the user is working with the COPIED callout label, NOT THE ORIGINAL GEOPAK LABEL!***

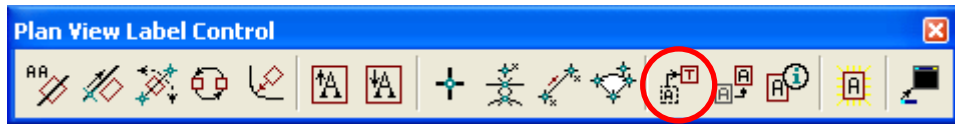
*(Refer to part 1 for reference level information)*

- vi. Once again go along the top of screen to your pull down menus:  
**Applications: ROAD: Plan Preparation: Plan View Labeling:**



vii. Next go to the Plan View Labeler dialog box. If it isn't already up, go to the following top pull down menus on the Plan View Labeler box:

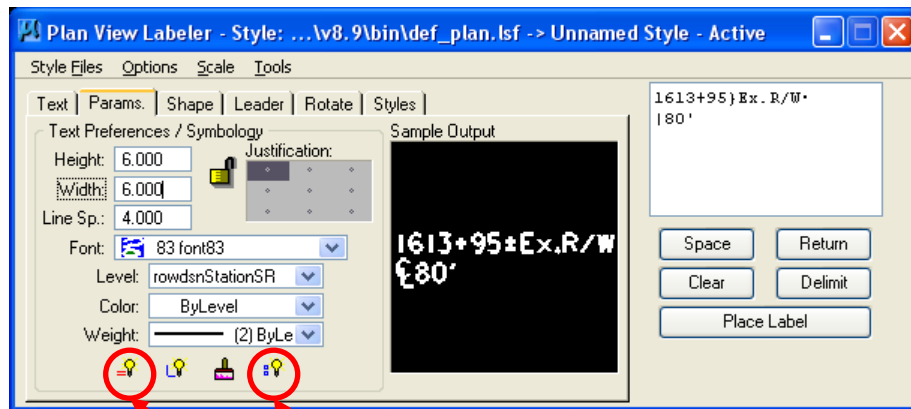
**Options: Label Tools:**



viii. Using the **Move Label** tool (as circled in the above picture), click once on the tool, then ONCE on the station you wish to be modified.

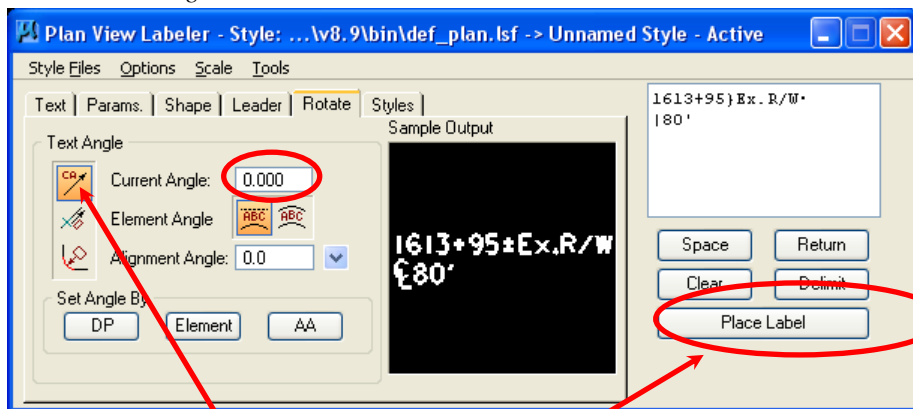
*The station callout should appear in the key-in box in the upper right hand corner of the Plan View Labeler dialog box, If it does not then try clicking once again on the desired station. Also the station callout on the plat should turn to a different color.*

ix. Along the top of the Plan View Labeler dialog box, select the **Params.** Tab



- a. Click first on the **Set by Current** button to set text height & width, color, level name, weight and font style. (Color and Weight should be set to ByLevel)
- b. Then click on the **Set All Parameters** button to set Parameters, Shape, & Leader to the same current attributes.

*All labels need to be horizontal, never vertical. So the last step is to click on the **Rotate** tab in the Plan View Labeler dialog box*

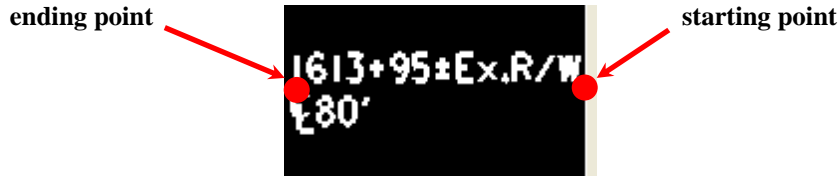


step c.

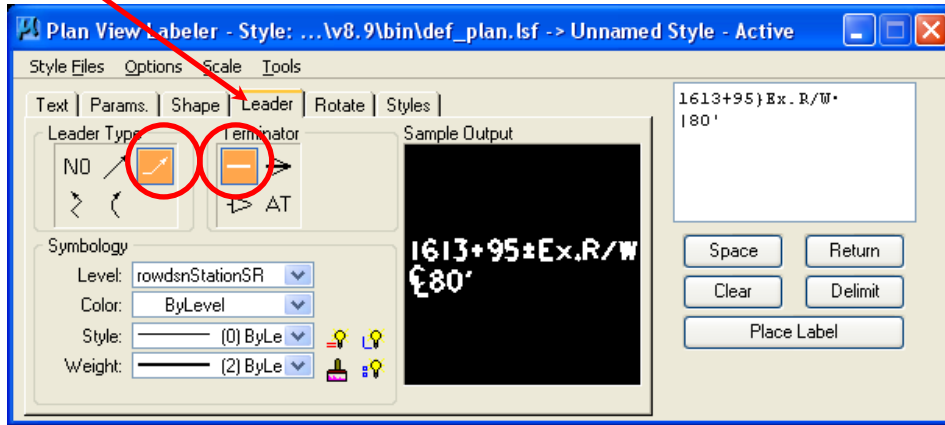
step d.

- c. Choose the **Current Angle** tool and set to **0.00** degrees.
- d. Lastly click on **Place Label**, choose which side to pull your delimiter line thru, click to choose and pull delimiter thru and click to finalize

The delimiter line may be a little tricky. When placing the leader line remember that the labeler is asking for a starting point and a ending point for the labeler. Once the start position is chosen, drag line thru to choose length, and terminate the line. (See below)



- e. Click on the Leader tab and make sure the below circled items are highlighted

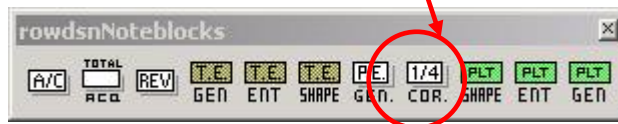


Simply click on the starting point and drag line straight thru to the ending point. Reverse sides if you desire to have label point the other direction (See back pages for examples)  
 It is also important that leader lines DO NOT cross over any hatched area. Also try to move call-outs around enough so that the leader lines does not cross important elements like centerlines, buildings, etc. but sometimes it is unavoidable. Use judgment (see back sheet for examples)

10. -----Finalizing the plot plan-----

The last step to doing a plot plan is very important also. It consists of putting in all the necessary notations, etc. that need to be placed. Below are the tasks that should be on every plat:  
 (See exhibits 1 and 2 for examples of completed plot plans)

- i. **Section Cor. Markers** Using the **rownoteblocks** tool palette located on the lower portion of the r/w2 tool bar choose the **¼ corner marker**. Scale this block to the same ratio of plat/master (see section 3 for assistance)

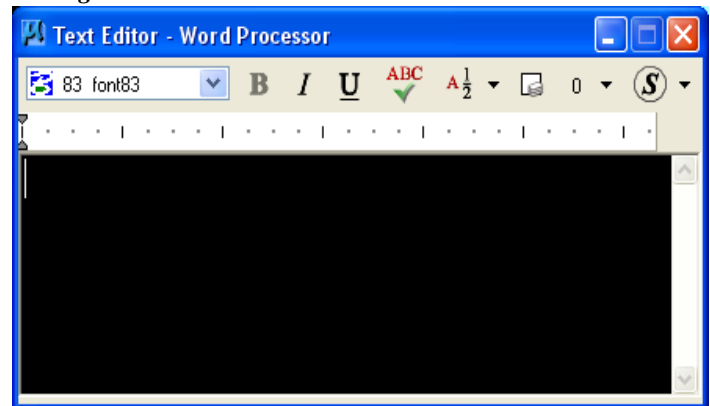
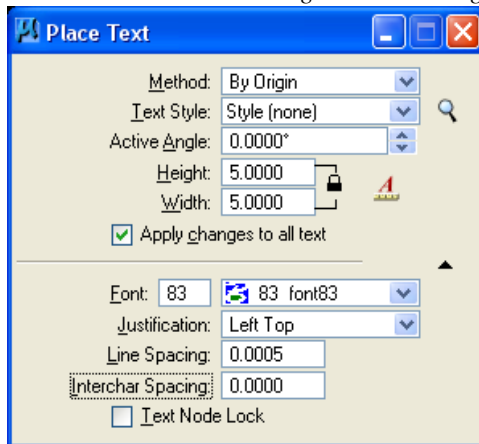


- ii. **Section or ¼ sec.** These notes are merely text entered by the user. Make sure the angle of the text is 45 degrees and weight of text changed to (1). Also the size of the text can be enlarged slightly. These labels are meant to be subdued in the background, not be bold and interfere with the plat. (see example on back page)

- iii. **North Arrow** There usually is a north arrow template along the left side of the plat sheet. Simply copy the existing arrow in the UPPER RIGHT corner of design area. If it does not fit it may be placed in the upper left. NEVER place arrow in lower corners or middle. The north arrow is also part of the **rowsymbols** tool palette
- iv. **Easement Notations** Using the **rownoteblocks** tool palette located on the lower portion of the r/w2 tool bar choose the appropriate notation block. Scale these blocks to the ratio of plat/master (see section 3 for assistance)  
After the block is placed the data field entry tool is invoked. Merely click on the data fields to be entered. All t.e. acreages should be entered on the plot plans as well

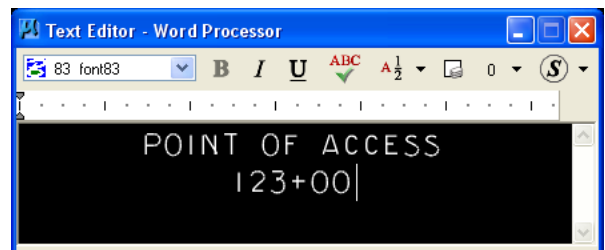


- v. **Centerlines** All mainline and side road centerlines should be labeled appropriately. Use the **smartmatch** tool and choose the attributes of the text at the bottom of the plot plan. This will match the height, width, etc of the text fields
- vi. **Existing R/W Lines** Labeling the existing ROW lines are very important. Using the text tool and small text(*size will vary with plat scale*) using **DisRowExist** bylevel attributes type the following: **EX.R/W**  
*Place text along row lines using the **along element** method.*



- vii. **Access Location** The access stations should be entered with the same attributes as the station callouts and or the county/project no. at the bottom of the plat sheet

- a. Once these attributes are set, make sure the justification is set to center center, use the **text** tool and type POINT OF ACCESS and the station.
- b. Align the text with the access location arrow, using which ever rotation method you are most comfortable with.



- viii. **Data field entries** With the data fields attribute checked earlier, there should be dashed lines at the top of the plot plan sheet where parcel no., owner, section, & scale can

be filled in. Using the **copy** command copy along with the key-in box <esc> copy these data fields to **rowdsnPSDataFields**

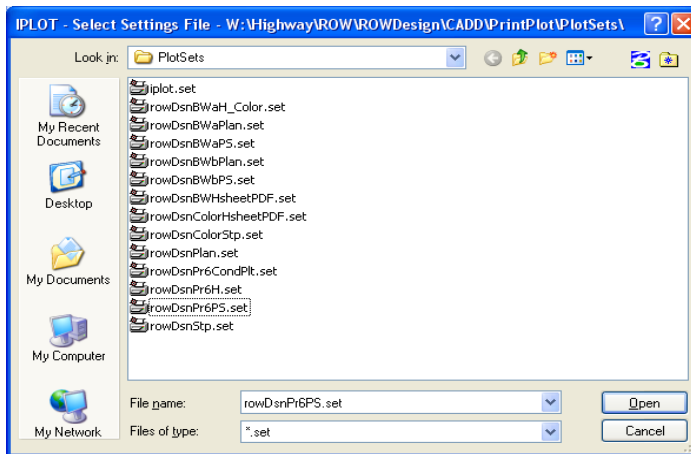
Now click **tools > main > text**

- a. Turn off reference file level **rowdsnPSDataFields**
- b. Using the **Fill in Single Data Entry** tool will bring up a text editor window. Click on one of the copied data fields, now enter the appropriate data in the text window and press the <enter> key.
- c. Shut off the data fields attribute by pressing <Ctrl B> and clicking the data fields box and selecting **apply**

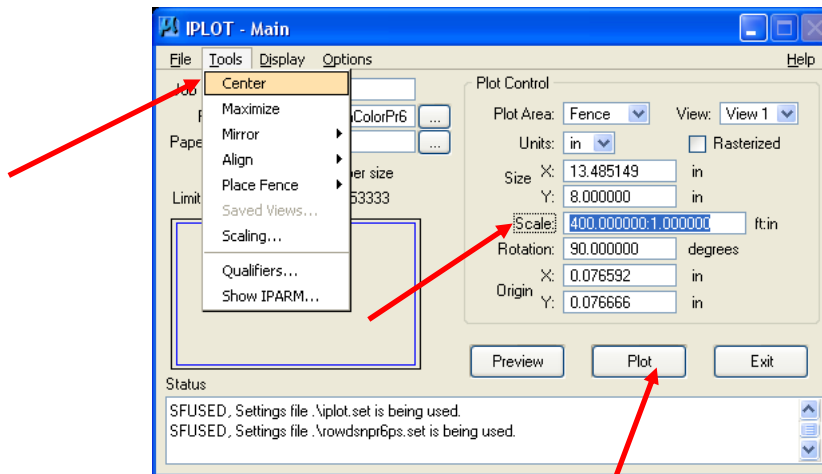
**11. -----Plotting the plat and summaries-----**

Once all is complete, hit the <f11> key to bring up the **IPLOT** program.

- i. In the **IPLOT** window go to **Tools > Fence > Block** to activate the fence command.
- ii. Snap to the upper left corner line within the plot plan. and accept.
- iii. Drag the fence out and snap to the opposite corner (lower right) and accept
- iv. Choose a plot **Settings** file **File > Select Settings**



- v. Choose ANY (.set) file with “PS” in the name. *This will set all appropriate attributes to plot a plot plan and summary sheet in black & white*

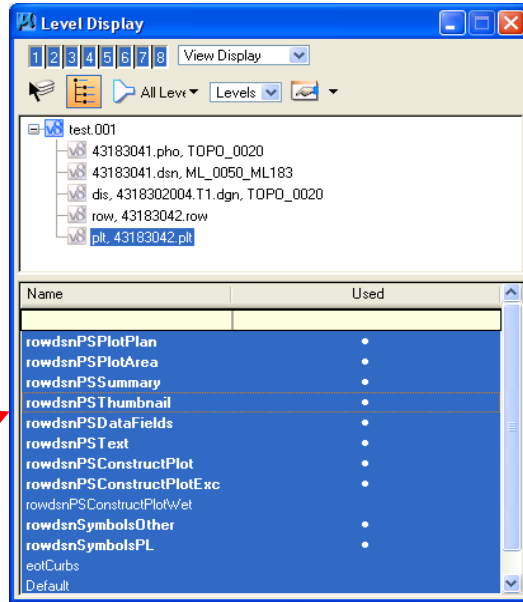


- vii. Check the Scale is correct, if not correct it.
- viii. Select **Tools > Center**
- ix. Select **PLOT** button then exit

# CREATING THUMBNAIL SKETCHES

1. -----Placing the blue box-----

- i. Turn on level **rowdsnPSThumbnail** in the **(.plt)** file

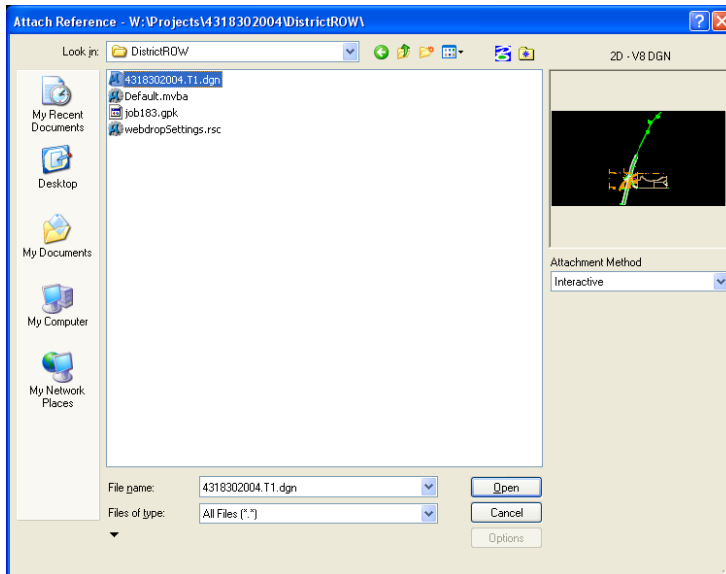


*Two blue boxes should appear within the design field of the plot plan*

- ii. Use the **copy** command, copy one blue box to the active level **rowdsnPSThumbnail**
- iii. Now shut off level **rowdsnPSThumbnail** of the **(.plt)** file

2. -----Attaching reference files-----

- i. In the reference dialog box choose **Tools > Attach**

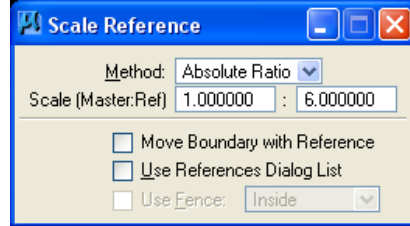


- ii. Attach another **District T1** file or **(.row)** if property lines were added
- ii. Give it the logical name **distthumb** (or something similar)
- iii. Repeat this process again but attach another **(.dsn)** file: **(dsntthumb)**

3. -----Resizing and Clipping ref. files-----

- i. Open Reference file dialog box Press <F1> or go to **File > Reference**
- ii. Highlight the **disthumb & dsnthumb** files while holding down the **Ctrl** key
- iii. In Reference file dialog box , choose **Tools > Scale**
- iv. Change the **second** number to 6.0 (*Any number is good but this is usually a good start*)

*This will scale down the two files so that the entire property, as well as some section information will fit in the small blue box.*

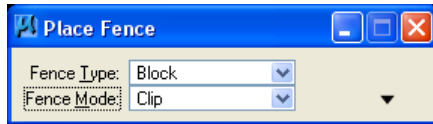


*Now the files will need to be moved into place*

- v. In the Reference file dialog box go to **File > Move**

*It is very important that BOTH files are still highlighted, BEFORE moving them*

- vi. Move the files so the entire property in question is contained within the blue box
- vii. Now select the **fence** command: Fence type **Block**  
Fence mode **Clip**



- viii. Data point to a corner of the blue box, accept and drag to opposite corner of box and accept
- ix. In Reference file dialog box go to **File > Clip Boundary**

4. -----Finalizing the thumbnail-----

- i. Using the ref. files dialog box, highlight only the **dsnthumb** file
- ii. Turn off all levels except **dsnCenterline**

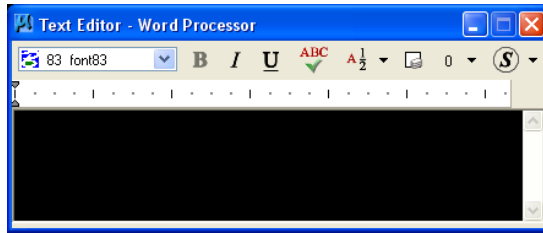
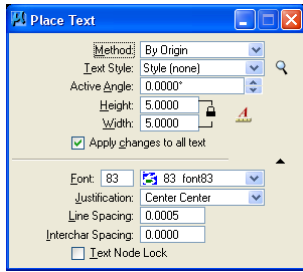
*This is the proposed centerline of the design, it will help show location of property in respect to the proposed alignment*

- iii. Now highlight only the **disthumb** file
- iv. Turn off all levels except **DisRowExist, DisSecLines, & DisPropLines**
- v. Using the **copy** command, copy the correct property line information
- vi. Copy information to **rowdsnPSProperty:** <key-in> **lv=rowdsnPSProperty**
- vii. Once all property information is copied shut off **disthumb** level **DisPropLines**
- viii. Choose the **Smartmatch** command and click once on either the county name or project number at the bottom of the plat sheet

*This will select all attributes of the text, including the size and type of the text*



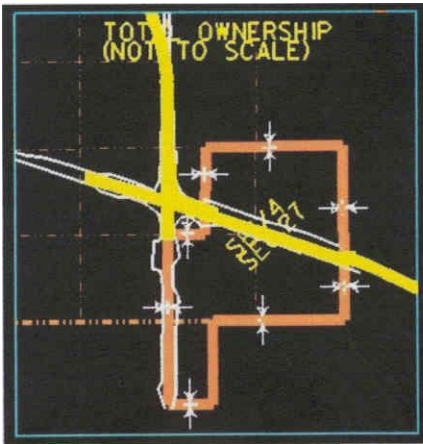
- iv. Lastly use the **text** command type the following: TOTAL OWNERSHIP  
(NOT TO SCALE)



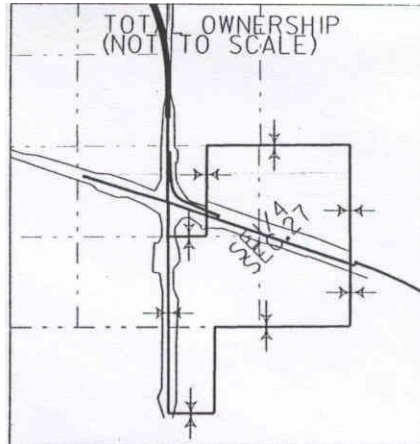
- v. Now place the text in the correct place within the blue box

*The thumbnail should look like the example below*

**On-Screen**



**Printed**



**EXHIBIT 1**

IOWA DEPARTMENT OF TRANSPORTATION  
PROJECT DEVELOPMENT  
PLOT PLAN

0803001004rrow\ 08030010. 002


PARCEL NO.: 2


OWNER: JOHN Q. SMITH

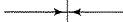
SECTION: 31 T 84 N-R 28 W.

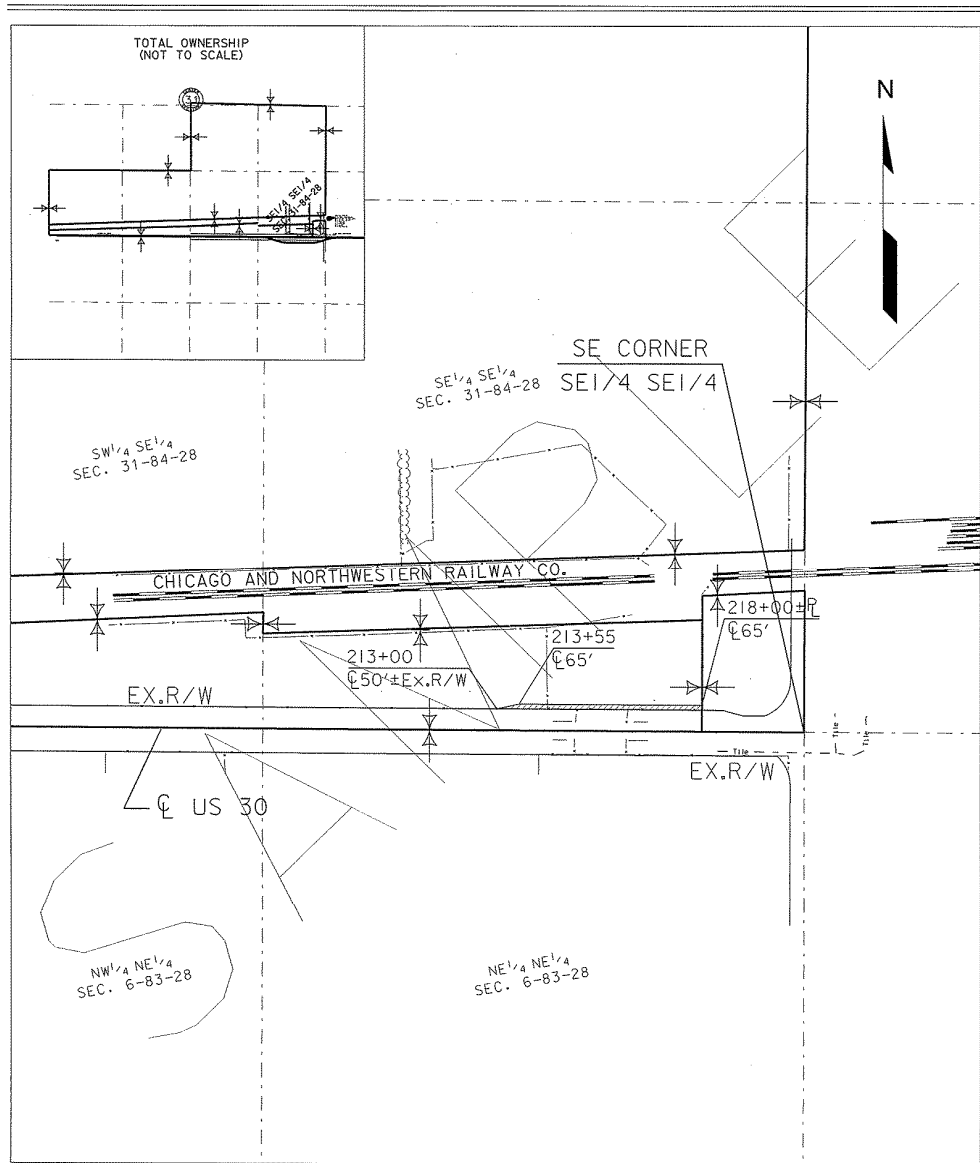
SCALE: 1" = 300'

LEGEND

W.D. OR EASEMENT LINE: 

ACCESS LOCATION POINT: 

PROPERTY LINE: 



COUNTY: BOONE PROJECT NO.: NHSN-30-4(70)- 2R-08

**EXHIBIT 2**

IOWA DEPARTMENT OF TRANSPORTATION  
PROJECT DEVELOPMENT  
PLOT PLAN



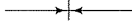
29061020C99vrow\j290612060.012

PARCEL NO.: 12

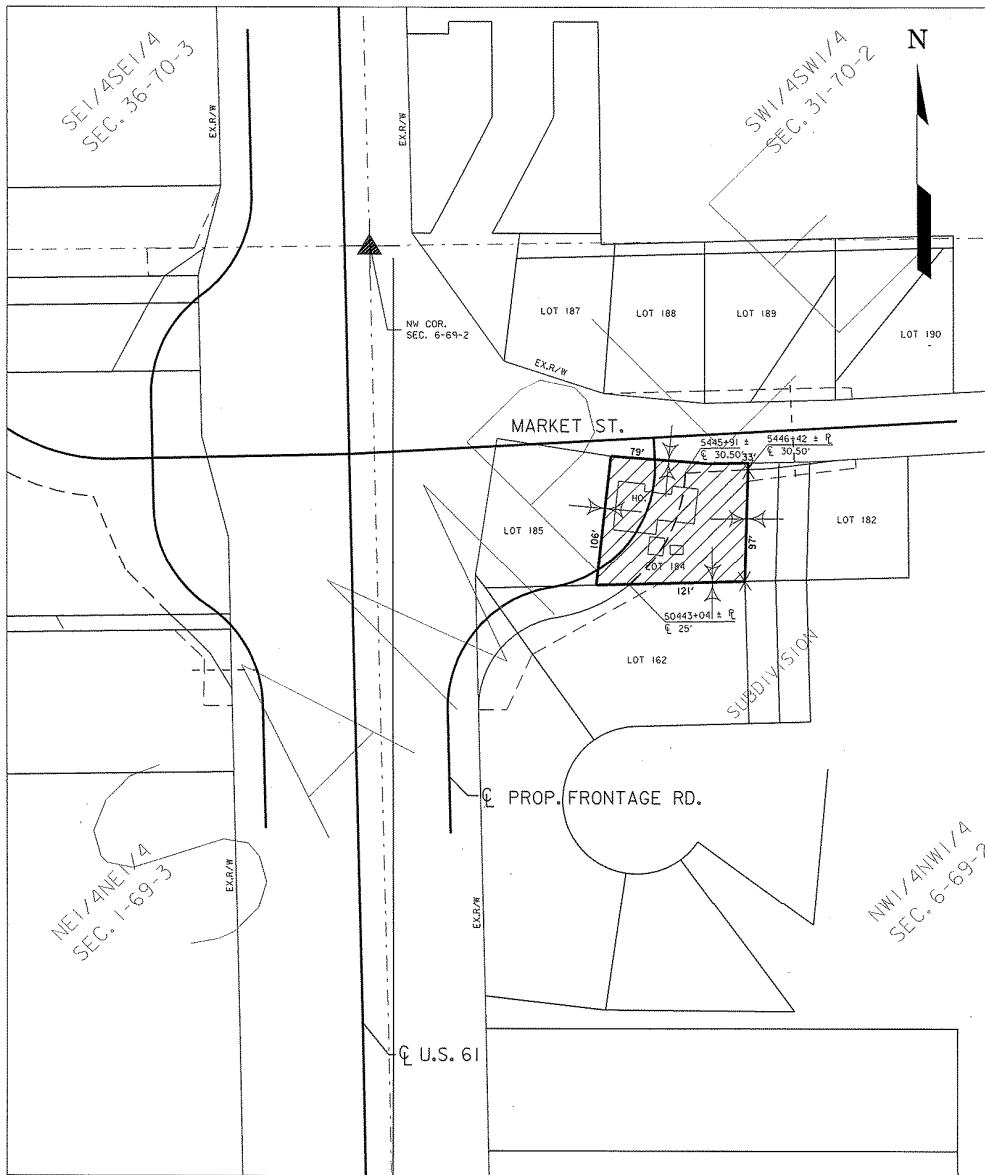
OWNER: JOHN Q. SMITH

SECTION: 6 T 69 N-R 2 W.

SCALE: 1" = 100'

| LEGEND                 |   |
|------------------------|---|
| W.D. OR EASEMENT LINE: |  |
| ACCESS LOCATION POINT: |  |
| PROPERTY LINE:         |  |

CITY OF BURLINGTON



COUNTY: DES MOINES PROJECT NO.: NHSN-61-2(60)--2R-29