

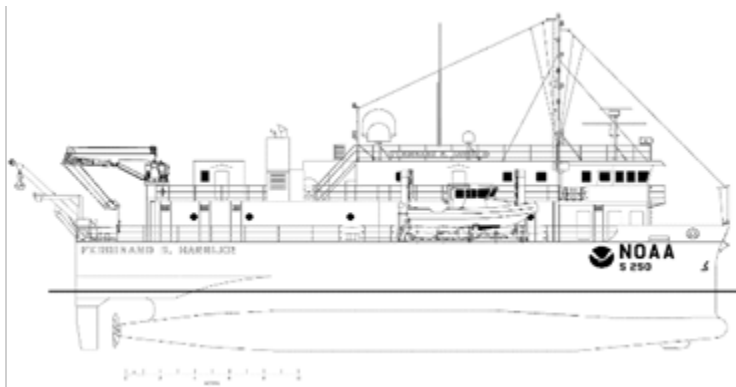
NOAA

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
UNITED STATES DEPARTMENT OF COMMERCE

NOAA Ship Ferdinand R.
Hassler
Controlled Document

***Ferdinand R. Hassler* Converting SHP or DXF Line Plans to Hypack LNW**

Standard Operating Procedures



Revision History

Date	Revision Description (Reason/What)	Updated by
08/05/2020	Original SOP written for NOAA Ship TJ	NOAA Ship Thomas Jefferson personnel
05/23/2021	General Review and Update for FH	ST Tigges
11/19/2023	Review	LT Debrousse

1. Overview and Scope

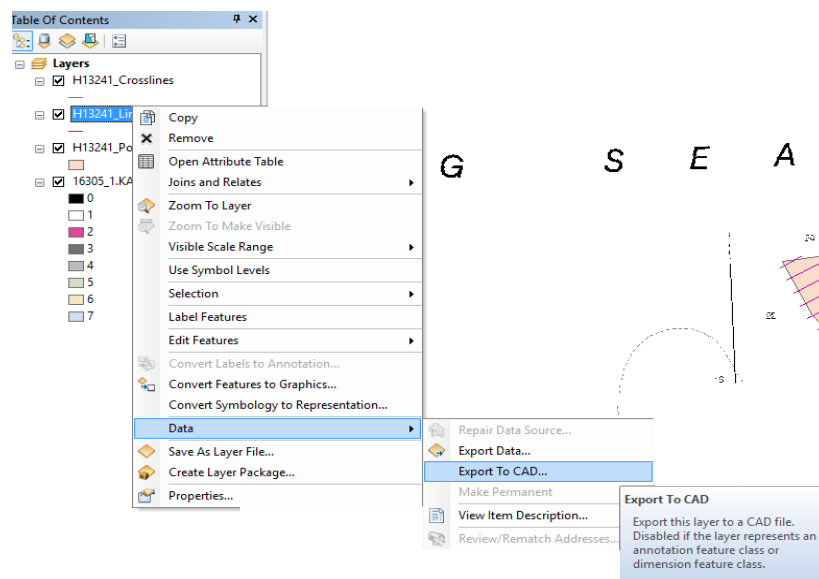
When it comes to line planning, you may have a personal preference for which software to use. However, when it comes to running lines, we use Hypack during acquisition. Thus, planned lines must ultimately be in the .lnw format, which is the line file format that Hypack uses.

If you ever make a line plan in Caris or ArcMap that is a SHP or DXF file format, this SOP shows how to convert that line plan to an .lnw that Hypack can read.

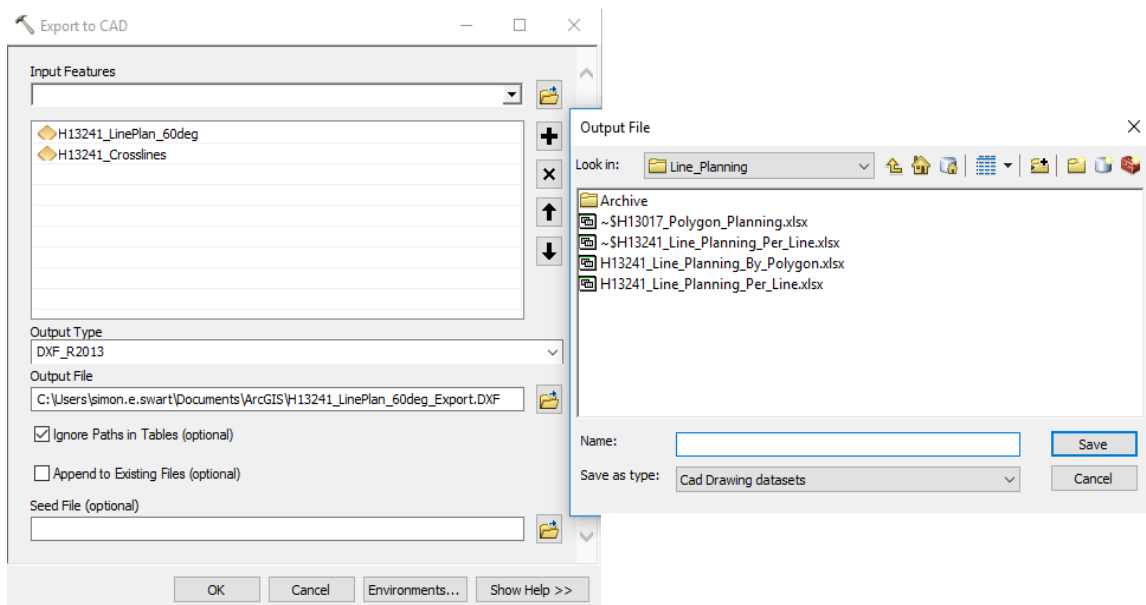
2. Procedure

ArcMap

- 0) Start with your line plan open in ArcMap.
- 1) Convert *.SHP Line file to AutoCAD *.DXF format file
 - a. Right click the layer containing the line plan, hover over **Data**, and then chose **Export to CAD**.

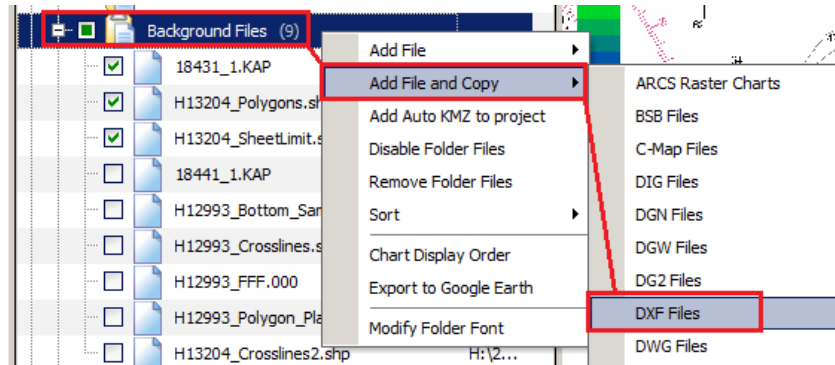


- b. In the *Export CAD* window, set up your file to export into the line planning folder that you are working with.
 - i. Tip: You can also export multiple SHP files to DXF at the same time, you just need to have them both open in Arc and select them under ***Input Features***.

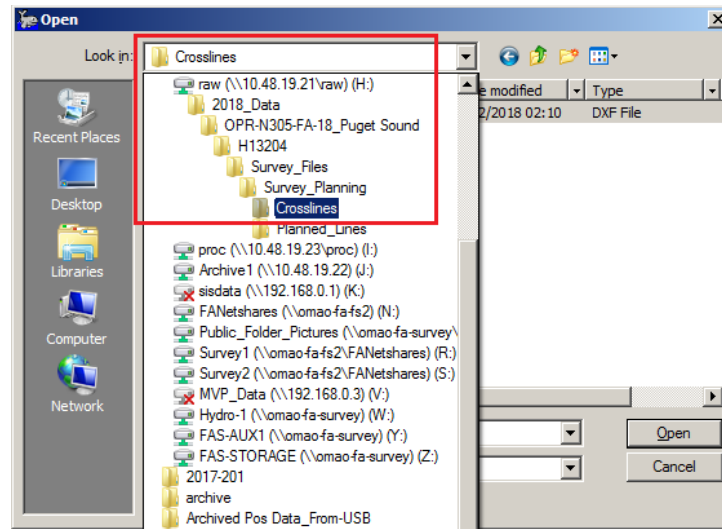


HYPACK Main Shell

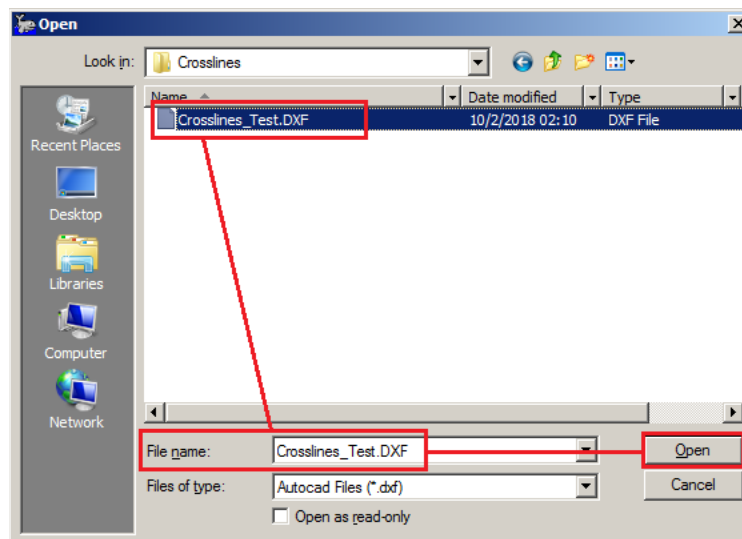
- 2) Right-Click on 'Background Files'
- 3) Select 'Add File and Copy'
- 4) Select 'DXF Files'



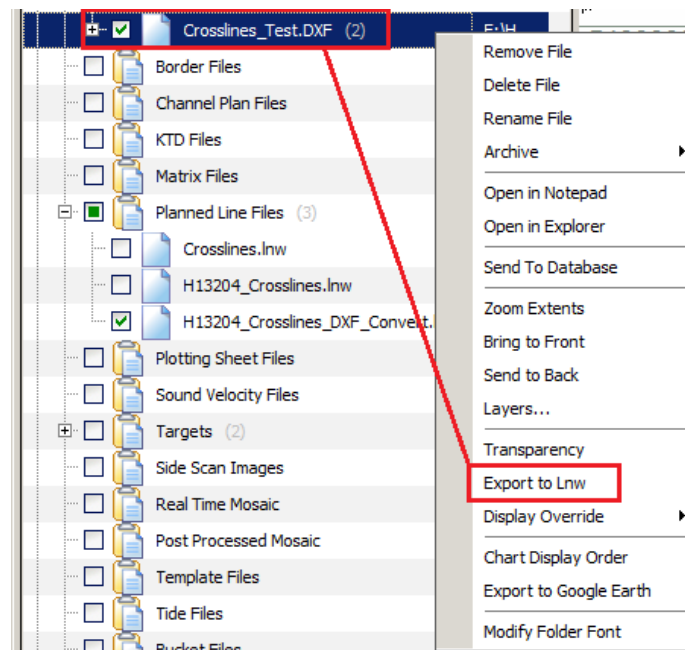
- 5) In the 'Look in:' box, click on the down-arrow and navigate to the directory with the DXF file:



- 6) Locate and Select the **DXF** file to be converted.
- 7) **Open** the DXF file



- 8) Once the DXF is open in the Project Tree, right-Click on the DXF file and select '**Export to LNW**'

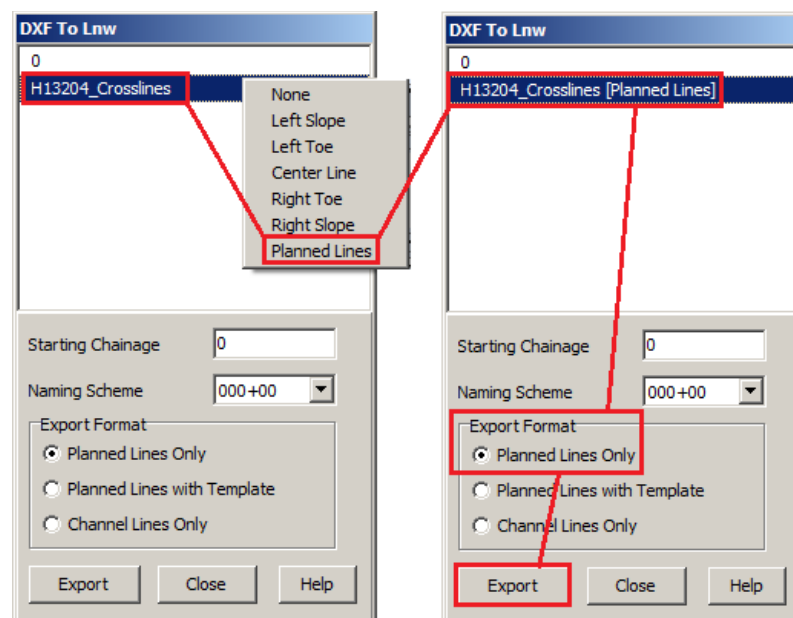


- 9) In the *DXF to Lnw* window, Right-Click on the name of the DXF file that you are converting, then select '**Planned Lines.**'

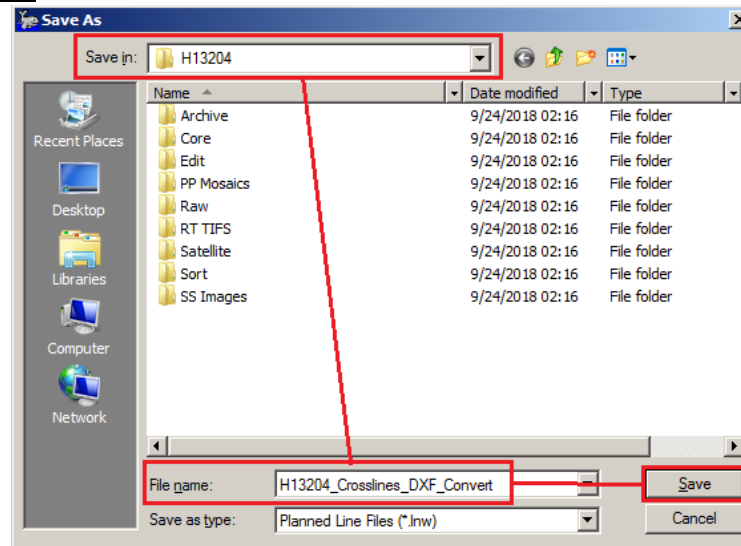
Make sure that '[Planned Lines]' appears next to the name of the file.

- 10) Select '**Planned Lines Only**' for '**Export Format**'

- 11) Click '**Export**'



- 12) Select the directory for the new LNW to **'Save in:'**
- 13) Enter the **'Filename'** for the new LNW file. Click **Save** to finish.



- 14) The new converted LNW file will now appear in the Planned Line Files directory and be displayed in the Main Shell:

