Foundation Plan Checklist

Foundation Plan sheets are prepared by the Districts and our Division of Structures Preliminary Investigation Section. Structure Design should request Preliminary Investigation Section to provide tracings when the Design Section is ready to detail the structure.

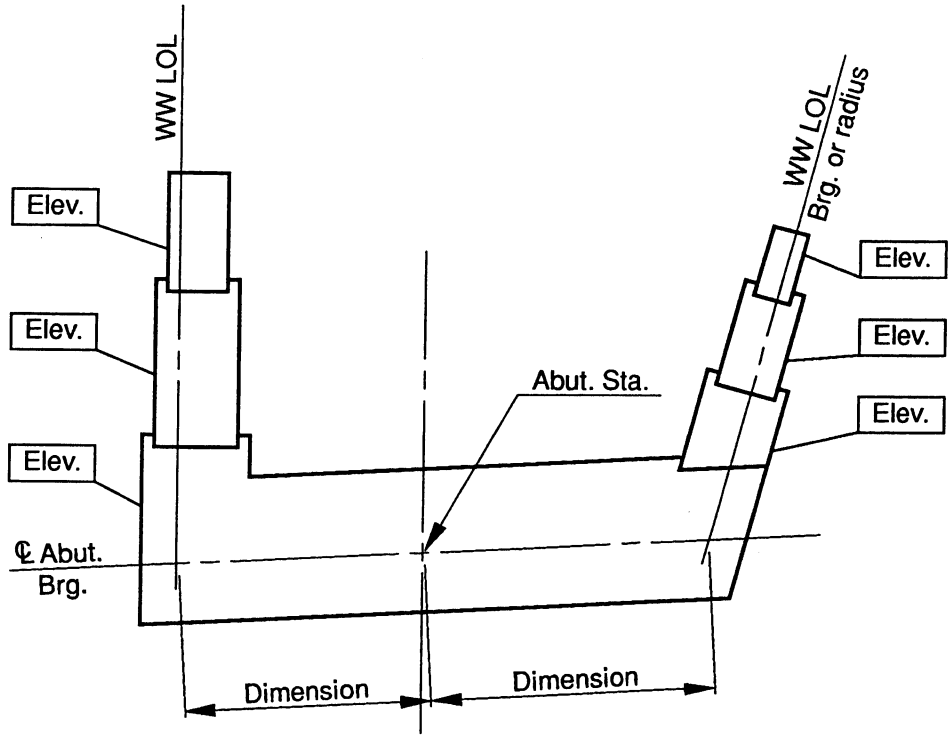
If there is no Foundation Plan sheet to be prepared for the job, such as in urban areas with no contours or utilities, a Footing Plan sheet should be detailed with the same information required as a Foundation Plan sheet.

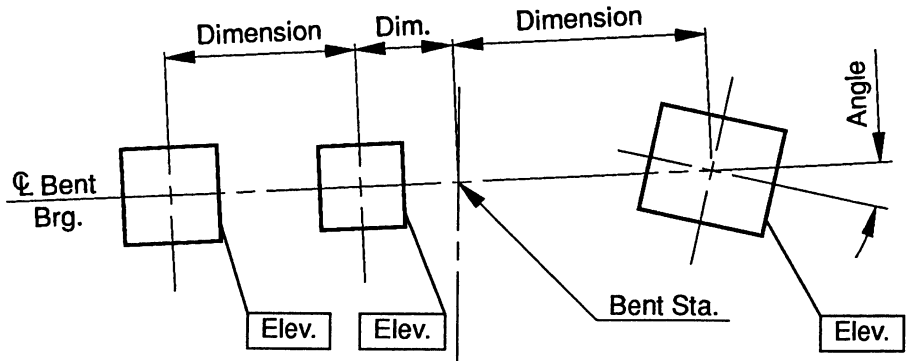
Check list for detailing:

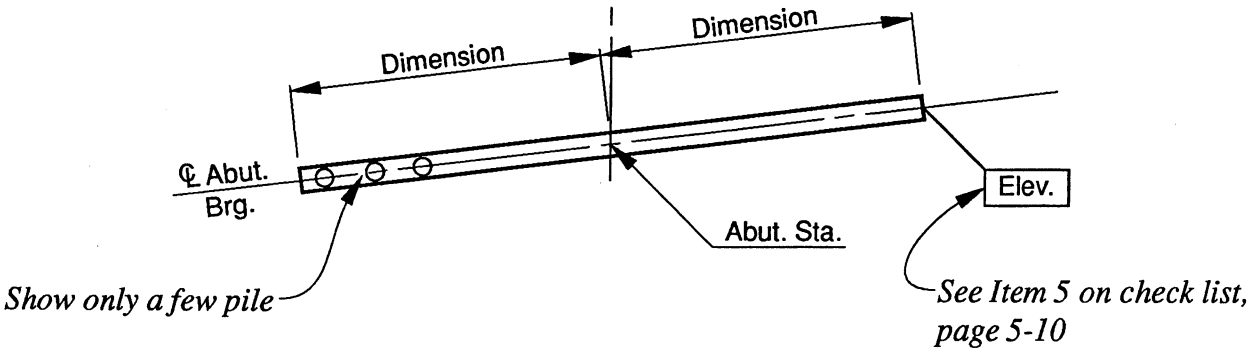
1. Remove contour lines that interfere with footing outlines, dimensions, stations, or bearings.
2. Relocate any interfering pertinent information, especially utility data and existing features to be removed.
3. Draw footings to scale but do not dimension footing size.
4. Show bottom of footing elevation thus: 120.0 (1'-6" minimum cover over footings; see BDS Article 4.4.2 for stream requirements).
5. Bottom of footing or bottom of abutment elevation for end diaphragm type abutment is not required if it is a constant depth and detailed on the abutment sheet.
6. Show stations and bearings of centerline bents and abutments.
7. If all supports are parallel the bearing may be so noted.
8. In a set of plans, use the same layout line on the Foundation Plan as is used on other detail sheets.
9. Layout information should be sufficient for the survey crews to stake out hubs for the contractor's use.
10. Do not repeat layout information on detail sheets, particularly bearings and stations and curve data.
11. Do not show all piles or pile layouts. A few piles may be shown to indicate pile footings. Exception: Pile bent layouts may be shown if it is not convenient to show elsewhere in the plans.
12. The tracing provided by Preliminary Investigation will have a survey data block in the lower left hand corner. The level datum shall be shown as NGVD (National Geodetic Vertical Datum). Hydrologic Summary will be shown, if appropriate.
13. Any required equations will be called out in the Preliminary Report.

The following page is a sketch showing the required footing layout information.

Footing Layout Information





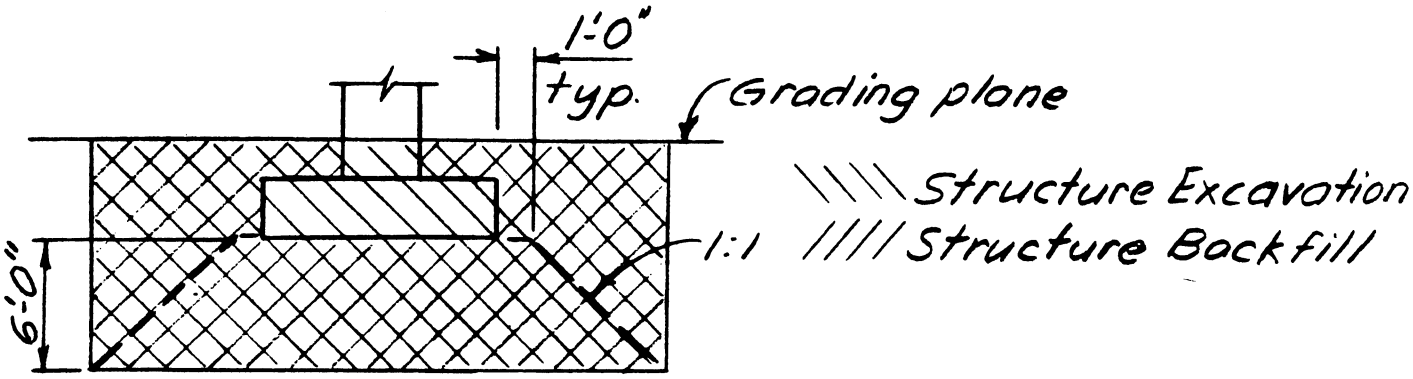


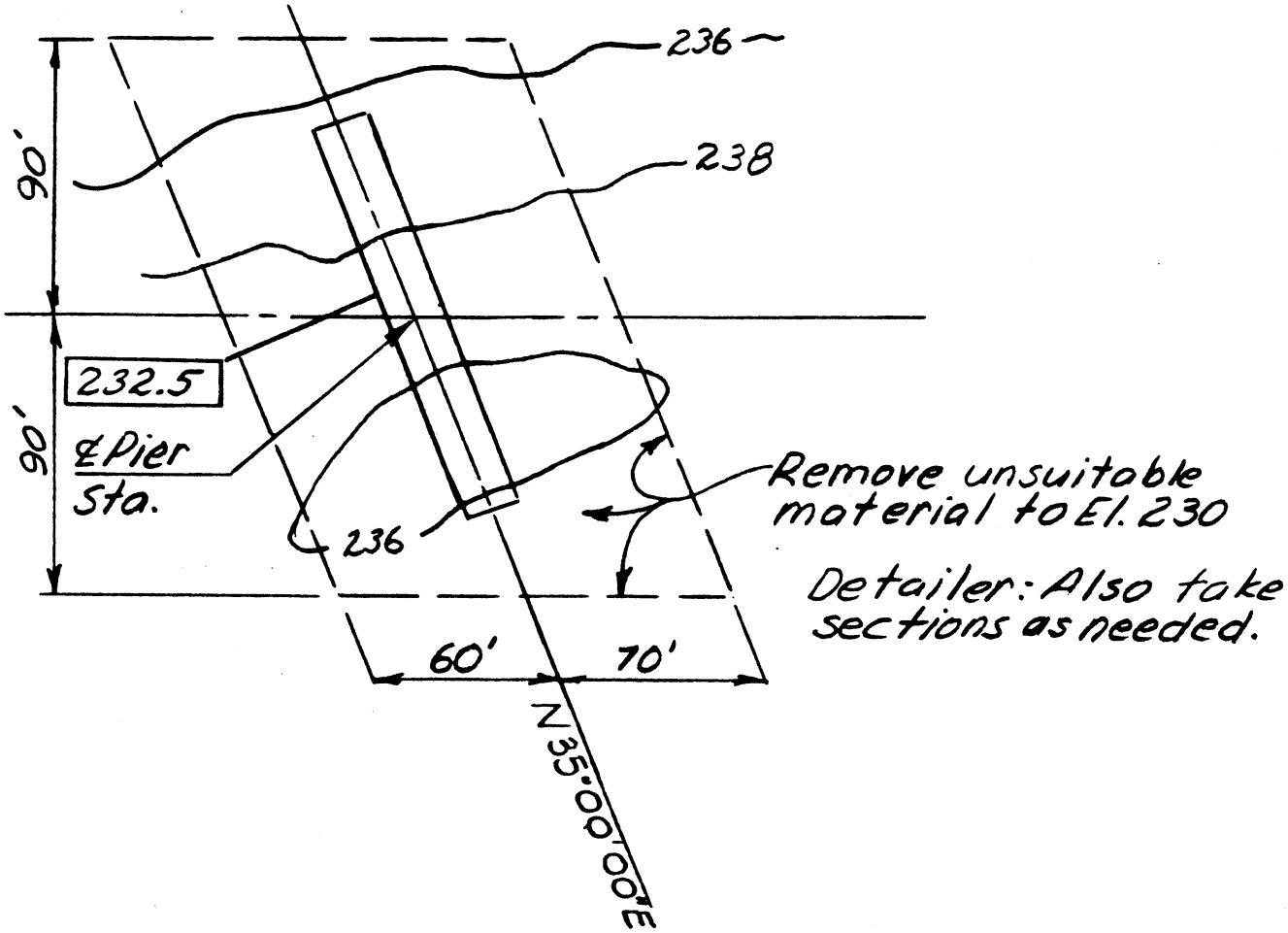
SPECIAL EARTHWORK

When earthwork not covered in the Standard Plans book is required, the horizontal and vertical limits should be shown on the Foundation Plan or on the detail sheet that applies. The limits of excavation will be determined by Geology. Specifications will determine the pay quantity items.

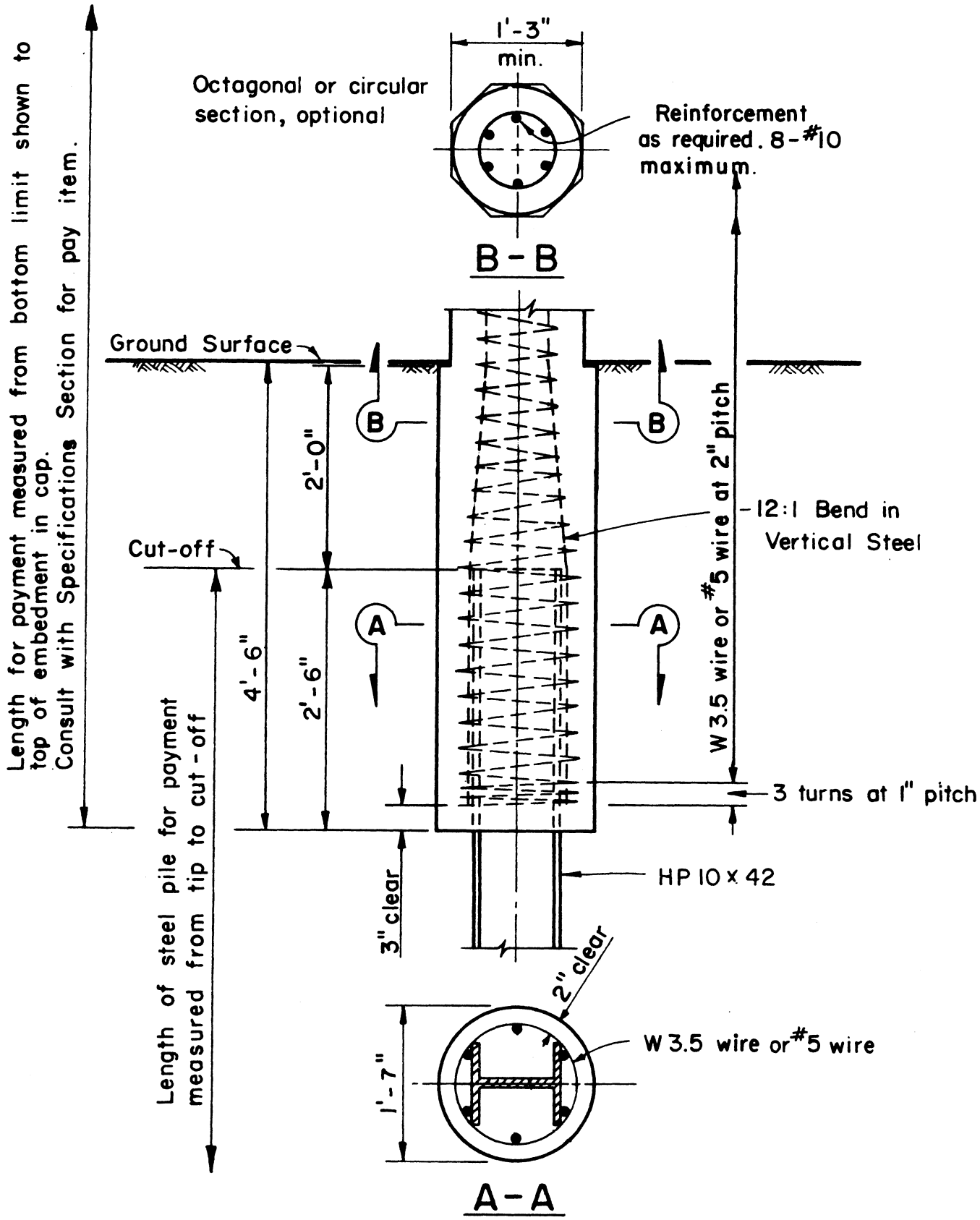
Two examples of detailing are shown below:

Another example is shown on page 5-52.

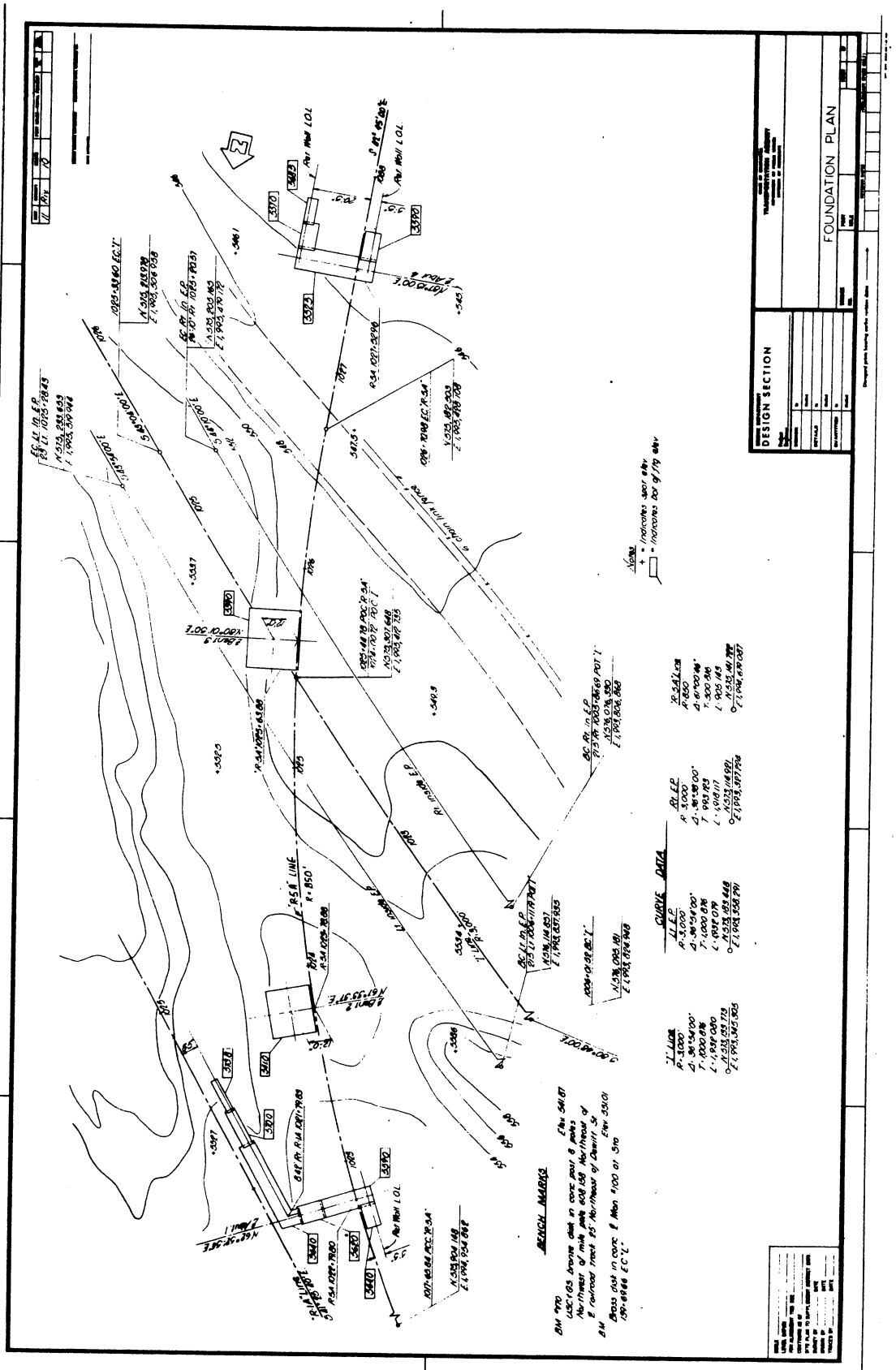




CONCRETE PILE EXTENSION FOR HP 10 x 42

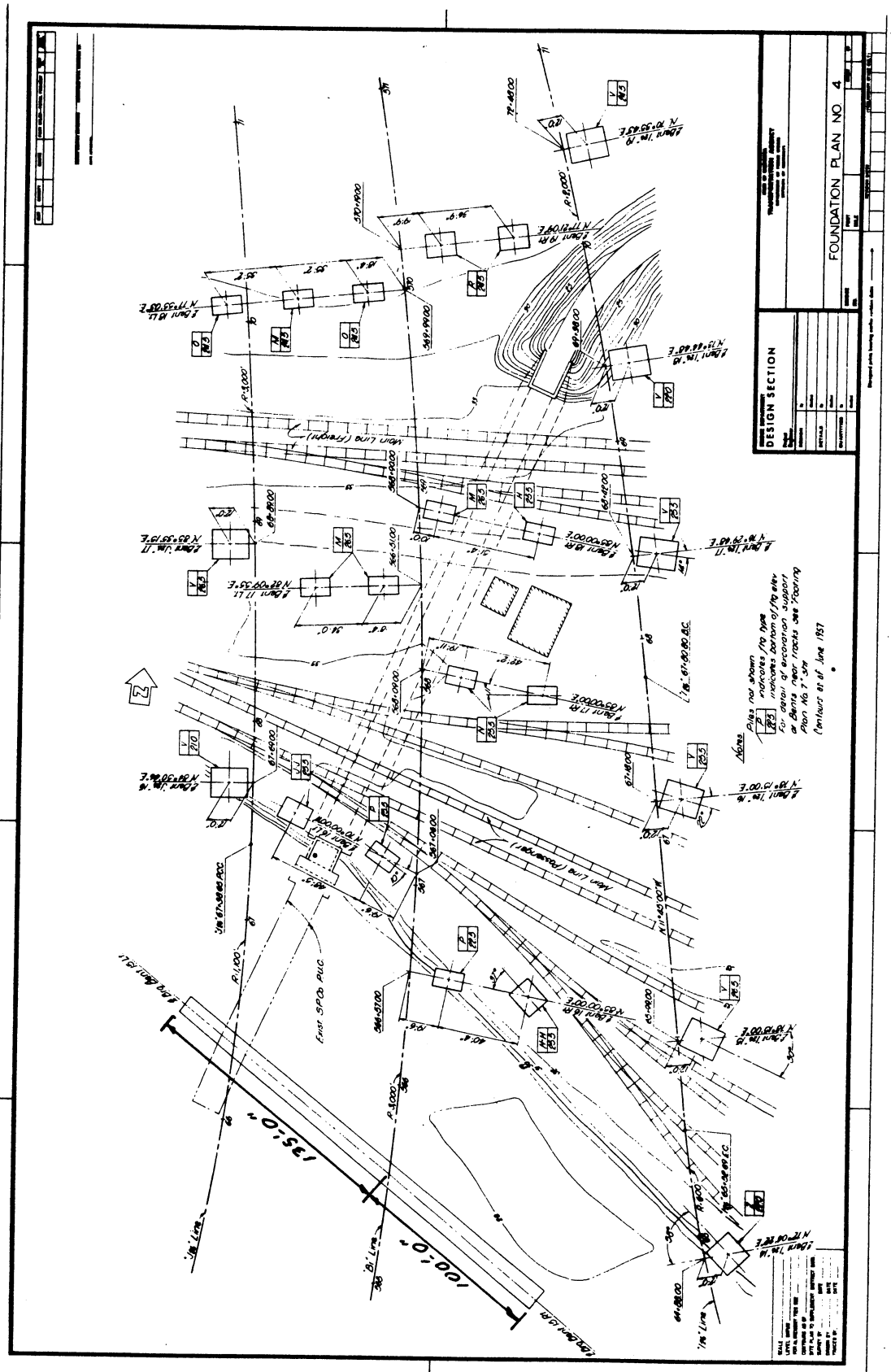


DETAILING EXAMPLE



DETAILS SHOWN ARE FOR EXAMPLE ONLY
NOT TO BE USED FOR DESIGN PURPOSES

DETAILING EXAMPLE



DETAILS SHOWN ARE FOR EXAMPLE ONLY
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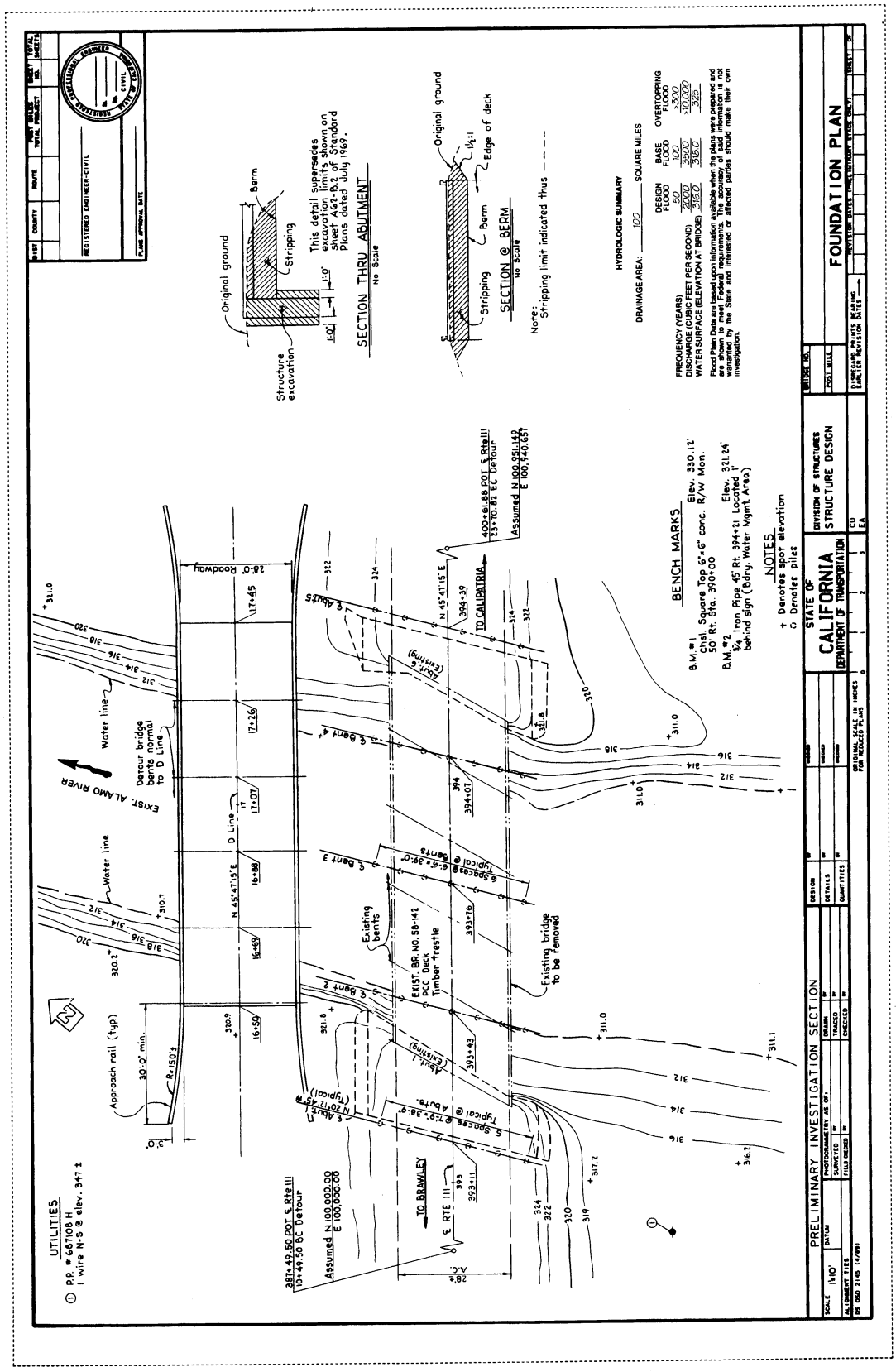
Detailing Example



Details shown are for example only not to be used for design purposes.