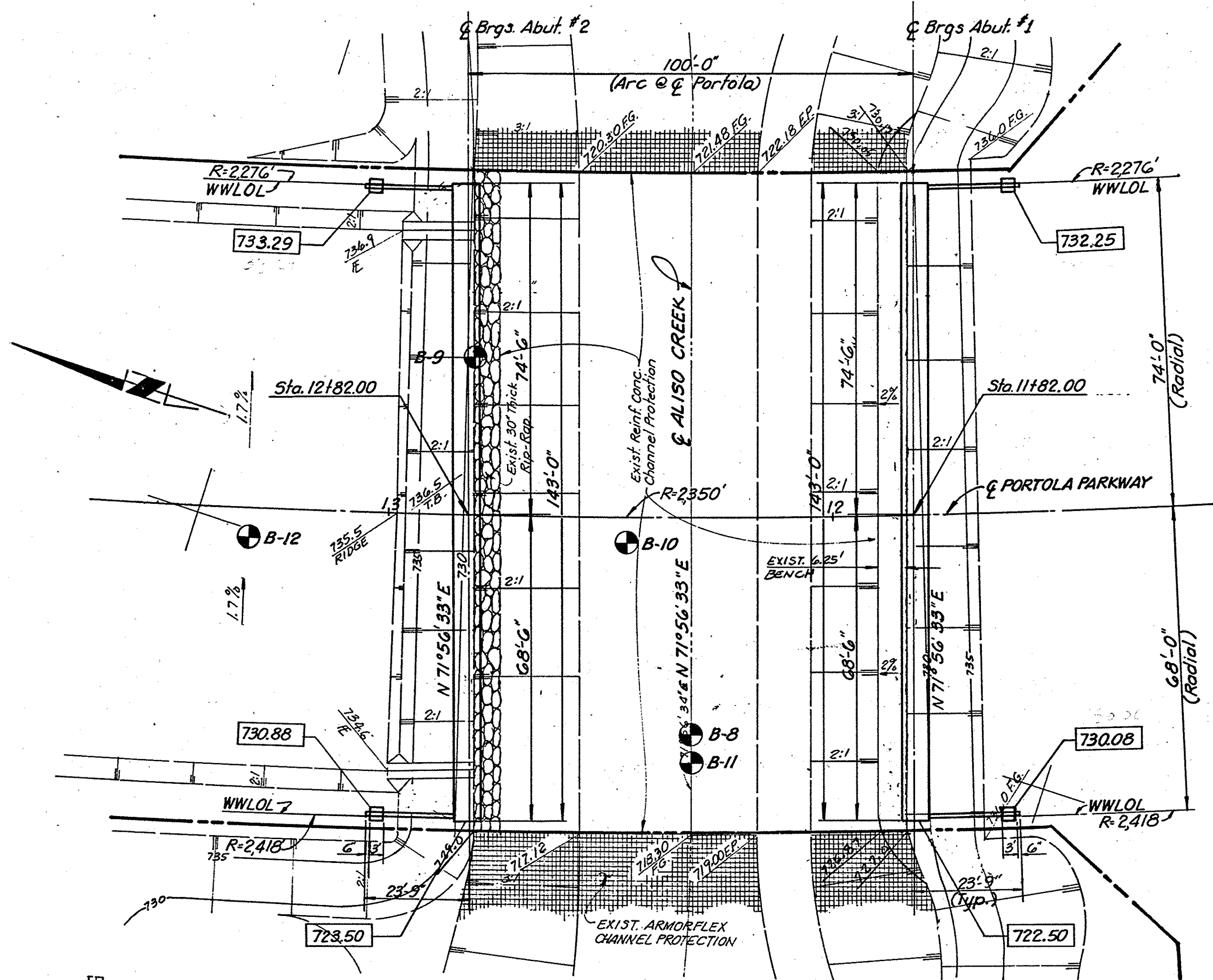
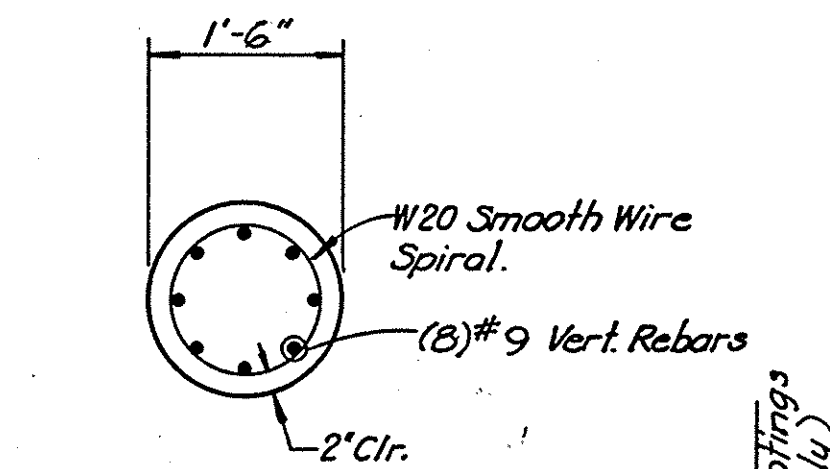


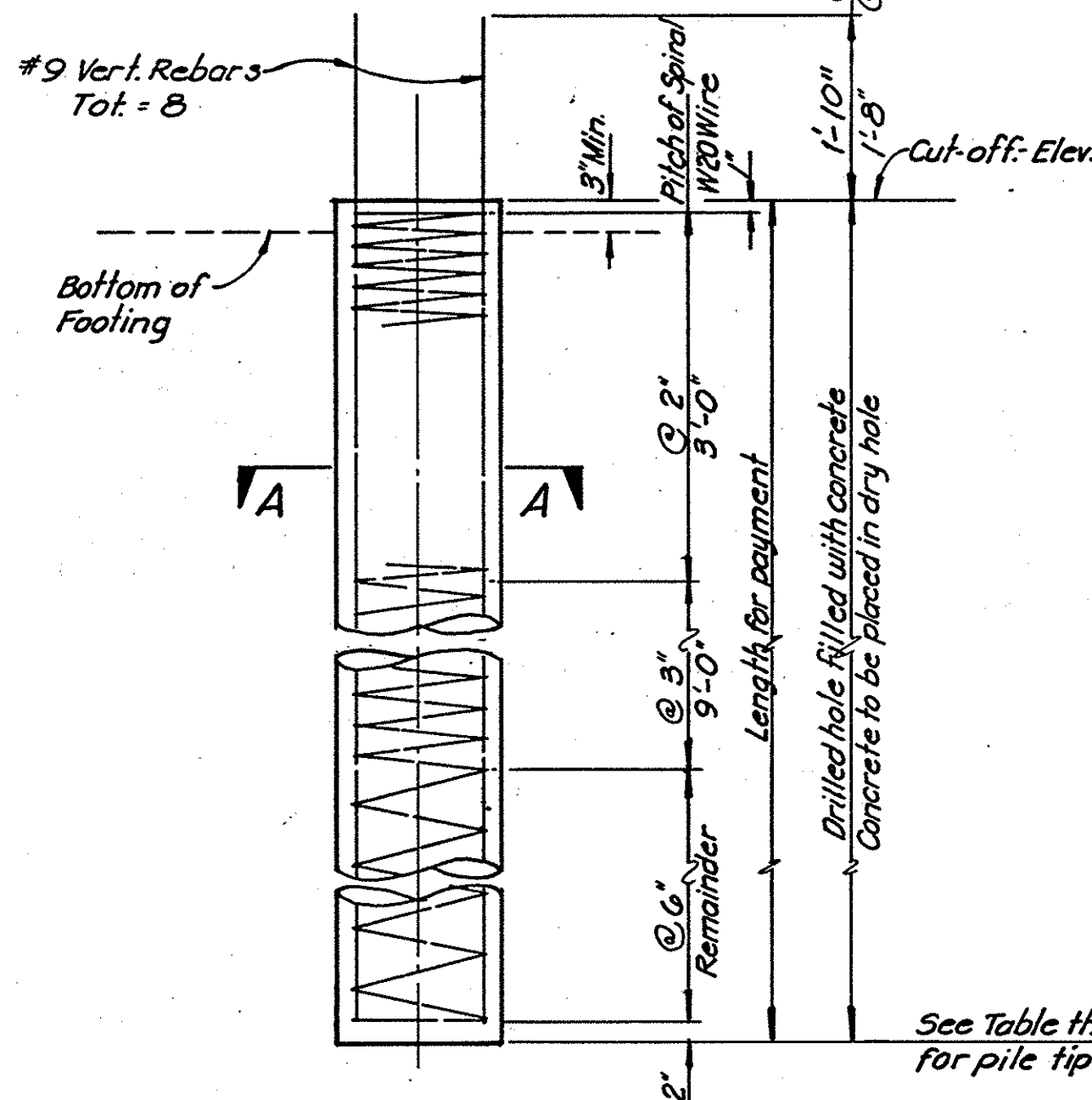


**FOUNDATION PLAN**  
Scale: 1"=20'

- 722.50 - Denotes bottom of Footing Elevations.
- - Denotes Structural Borings
- - Denotes Vertical Piles
- - Denotes 1:12 Battered Piles



**SECTION "A-A"**  
3/4"=1'-0"



**TYP. 18" CAST-IN-DRILLED-HOLE PILE**  
3/4"=1'-0"

| PILE DATA          |     |                  |                       |                  |               |           |             |                |  |
|--------------------|-----|------------------|-----------------------|------------------|---------------|-----------|-------------|----------------|--|
| LOCATION           | NO. | PILE TYPE        | AVERAGE CUT-OFF ELEV. | DESIGN TIP ELEV. | AS BUILT *    |           |             |                |  |
| Abutment #1        | 64  | 70 TONS C.I.D.H. | 722.75                | 703.0            | CUT-OFF ELEV. | TIP ELEV. | PILE LENGTH | AVG. TIP ELEV. |  |
| Abutment #2        | 64  | 70 TONS C.I.D.H. | 723.75                | 704.0            |               |           |             |                |  |
| Abutment #1 E.L.Y. | 1   | 70 TONS C.I.D.H. | 732.50                | 722.0            |               |           |             |                |  |
| Abutment #1 W.L.Y. | 1   | 70 TONS C.I.D.H. | 730.33                | 720.0            |               |           |             |                |  |
| Abutment #2 E.L.Y. | 1   | 70 TONS C.I.D.H. | 733.54                | 723.0            |               |           |             |                |  |
| Abutment #2 W.L.Y. | 1   | 70 TONS C.I.D.H. | 731.13                | 721.0            |               |           |             |                |  |

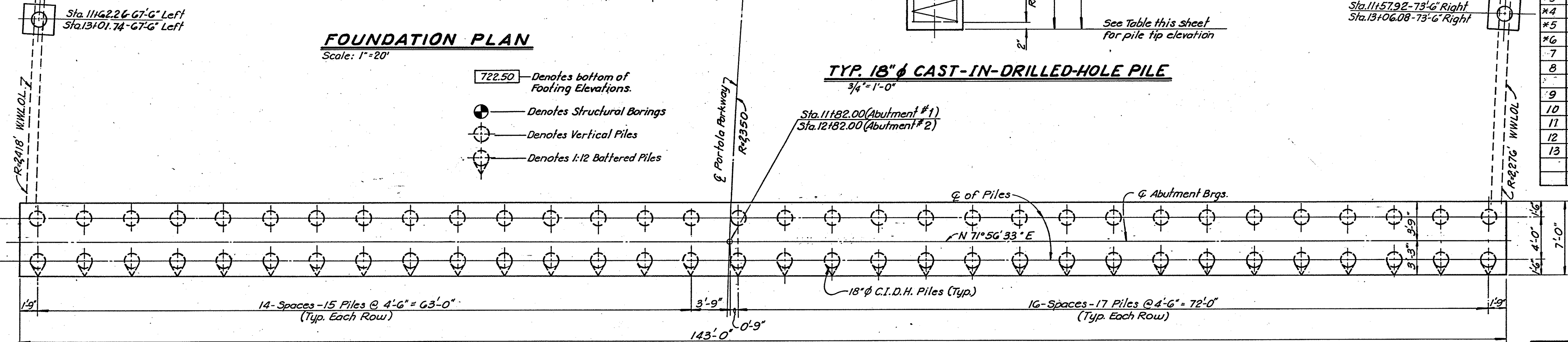
The Above Information is Given for Contractors Aid in Estimating the Work and for the Comparison of Bids. The Tip Elevation is a Geotechnical Estimate and may Vary Depending on Site Conditions and as Recommended by the Soils Engineer.

\* For use of Resident Engineer upon completion of construction.

- NOTES:**
- The Soils Engineer shall monitor the pile hole drilling operations and inspect the drilled hole before concrete placement.
  - The contractor shall keep a record of all actual pile tip elevations.

| QUANTITY ESTIMATES |                                       |              |
|--------------------|---------------------------------------|--------------|
| NO.                | ITEM                                  | QUANTITY     |
| *1                 | Structure Concrete $f_c=3250$ p.s.i.  | 610 C.Y.     |
| *2                 | Structure Concrete $f_c=4,500$ p.s.i. | 910 C.Y.     |
| *3                 | Bar Reinforcing                       | 200,300 Lbs. |
| *4                 | Structure Excavation                  | 680 C.Y.     |
| *5                 | Structure Backfill                    | 385 C.Y.     |
| *6                 | Unclassified Fill (Site Soil)         | 415 C.Y.     |
| *7                 | 18" C.I.D.H. (70 Ton Piles)           | 2,640 L.F.   |
| *8                 | Joint Seal Assembly                   | 284 L.F.     |
| *9                 | Miscellaneous Steel                   | 2,960 Lbs.   |
| *10                | Concrete Barrier Rail                 | 295 L.F.     |
| *11                | Prestressing Concrete                 | 1 L.S.       |
| *12                | Special Finishes                      | 2,200 S.F.   |
| *13                | Wood Railing                          | 289 L.F.     |

\* Final Pay Quantity.



**PILE LAYOUT**  
(Abutment #2 Shown Abutment #1 Opposite Hand)  
3/4"=1'-0"



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(714) 472-3505

|                                                           |      |             |                                                            |
|-----------------------------------------------------------|------|-------------|------------------------------------------------------------|
| ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY             |      |             |                                                            |
| PORTOLA BRIDGE OVER ALISO CREEK                           |      |             |                                                            |
| FOUNDATION PLAN                                           |      |             |                                                            |
| MARK                                                      | DATE | DESCRIPTION | PREPARED UNDER SUPERVISION OF <i>Paul R. Young 9-12-91</i> |
| REVISIONS                                                 |      |             |                                                            |
| DESIGNED <i>W. RESHAD</i>                                 | DATE | SCALE       | DWG. NO.                                                   |
| DRAWN <i>J. S. DANA</i> CHECKED <i>S. SHEIKH</i> AS SHOWN |      |             |                                                            |
| DR. 14 (16108) Sheet 3 of 13                              |      |             | SHEET B3 OF 13                                             |

DR. 14 16108