

v2(E)-

SECTION C-C

-sp spiral

SECTION B-B

DRAWN DGL

CHECKED MJP

v1(E)-

SHEET NO. ROUTE NO. TOTAL SHEETS SHEET NO. 21 FAP 326 68 27 SHEETS GRUNDY 41

Contract #66687

## BILL OF MATERIAL

|   | Bar  | No.       | Size     | Length          | Shape    |
|---|--|-----------|----------|-----------------|----------|
|   | h2(E)  | 24        | #6       | 22'-5"          |          |
|   | h3(E)  | 24        | #6       | 25'-3"          |          |
|   |  |           |          |                 |          |
|   | p2(E)  | 10        | #7       | 22′-5"          |          |
|   | p3(E)  | 10        | #7       | 25'-3"          |          |
|   |  |           |          |                 |          |
|   | s1(E)  | 33        | #4       | 14'-5"          | ß        |
| _ |  |           |          |                 |          |
| 6 | SP (F)   | 6         | #4       | 38'-6"          | <b>M</b> |
| 6 | sp(E)  | 6         | #4       | 3'-4"           | <b>^</b> |
|   |  | 0.4       | ".0      | 407.00          |          |
|   | u2(E)  | 24        | #6       | 10'-8"          |          |
|   | u3(E)  | 8         | #6       | 11'-4"          |          |
|   |  |           |          |                 |          |
| - | v1(E)  | 66<br>108 | #9       | 44'-4"<br>8'-2" |          |
|   | v2(E)  |           | #5<br>#5 | 4'-2"           |          |
| - | VZ(E)  | 108       | #3       | 4 - 2           |          |
|   | Structure Excavation Concrete Structures Reinforcement Bars Reinforcement Bars, Epoxy Coated |           |          | Cu. Yd.         | 15       |
| l |  |           |          | Cu. Yd.         | 83.9     |
|   |  |           |          | Pound           | 11,530   |
|   |  |           |          | Pound           |          |
|   |  |           |          |                 | 5,060    |
|   | Underwater Structure   |           |          |                 |          |
|   | Excavation Protection,   |           |          | Each            | 1        |
|   | Location 2   |           |          |                 |          |
|   | Drilled Shaft in Soil  |           |          | Cu. Yd.         | 42.0     |
|   | Permanent Casing   |           |          | Foot            | 57       |

- ① Pour steps monolithically with cap.
- For details of Bar Splicers, see sheet 23 of 27.
- For details of Bar Spincers, socialist
   All edges shall have standard <sup>3</sup><sub>4</sub>" chamfer.
- Space cap reinforcement to miss anchor bolts.
- Minimum lap for spirals = 2'-0"
- 6 Length is height of spiral.

5. Prepare construction joint at top of drilled shafts and lower encasement wall.

and shaft reinforcement, form and pour upper encasement wall.

6. Splice upper encasement wall reinforcement and cage length to lower encasement

- (7) Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. If the required tip elevation is below the bottom of Permanent Casing elevation shown on the plans, a design submittal including plan details and calculations for the pier and foundation, sealed by an Illinois Structural Engineer, will be required for review and acceptance by the Engineer. Alternatively, the Contractor may utilize one of the other construction methods described in Article 516.06 of the Standard Specifications. Cost of alternative construction method, if used, shall be included in Drilled Shaft in Soil.
- Pay limits for the Permanent Casing are based on the length shown. Contractor shall not be paid for Permanent Casing if an alternative construction method is used. If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation
- procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based
- on the actual elevations encountered at each shaft and the final top of shaft elevation. © Exposed surface areas of the pier within 10'-0" of the outer edge of shoulder shall be treated with Concrete Sealer.

PIER 2 DETAILS IL 47 OVER JOHNNY RUN CREEK FAP ROUTE 326 - SECTION 119BR GRUNDY COUNTY STATION 582+65.75 STRUCTURE NO. 032-0112



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