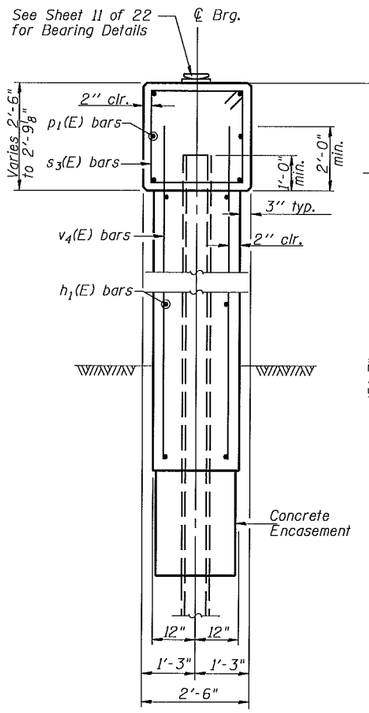
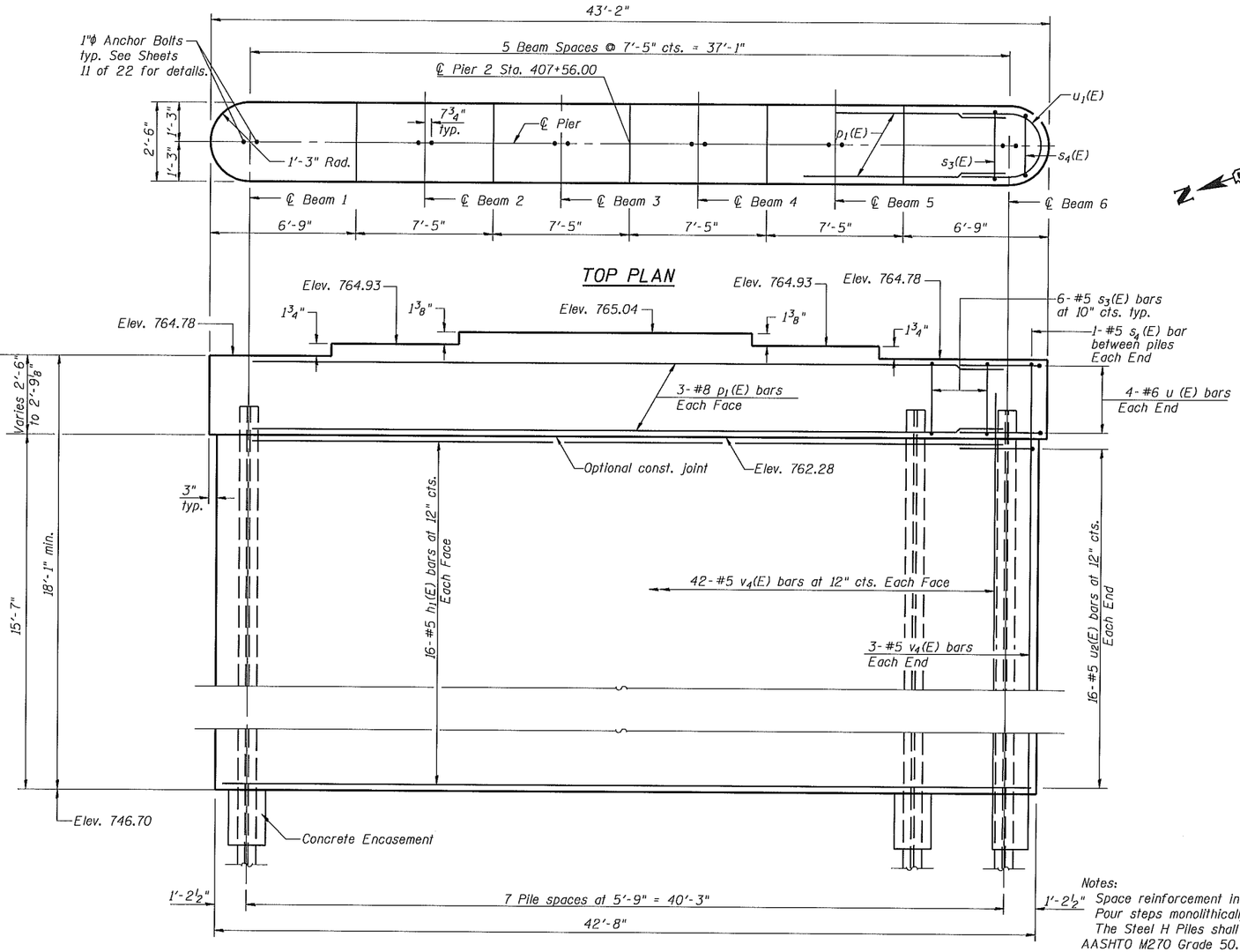
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.U. 6406 | 1(BR-2) | MCLEAN | 74 | 39 |
| FED. ROAD DIST. NO. 5 | ILLINOIS | FED. AID PROJECT- | | |

SHEET NO. 15
22 SHEETS

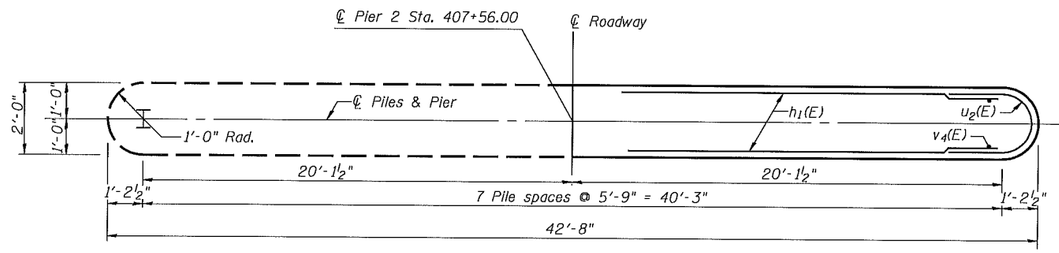
Contract #70517



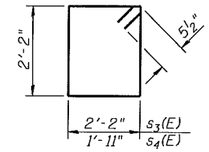

END VIEW



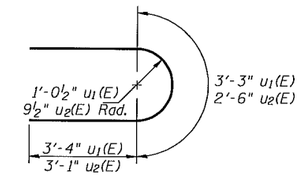

ELEVATION
(Looking East)




PILE LAYOUT & PIER PLAN




BAR $s_3$(E) & $s_4$(E)




BARS $u_1$(E) & $u_2$(E)

## BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| $h_1$(E) | 32 | #5 | 40'-8" | —— |
| $p_1$(E) | 6 | #8 | 40'-8" | —— |
| $s_3$(E) | 42 | #5 | 9'-7" | □ |
| $s_4$(E) | 2 | #5 | 9'-1" | □ |
| $u_1$(E) | 8 | #6 | 9'-11" | ⊃ |
| $u_2$(E) | 32 | #5 | 8'-8" | ⊃ |
| $v_4$(E) | 90 | #5 | 17'-5" | —— |
| Structure Excavation | | | Cu. Yd. | 56.0 |
| Concrete Structures | | | Cu. Yd. | 59.2 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 4500 |
| Furnishing Steel Piles, 12x53 | | | Foot | 483 |
| Driving Piles | | | Foot | 483 |
| Test Pile, HP 12x53 | | | Each | 1 |
| Concrete Encasement | | | Cu. Yd. | 2.8 |
| Underwater Structure Excavation Protection, Location 1 | | | Each | 1 |

Notes:
Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.
The Steel H Piles shall be according to AASHTO M270 Grade 50.
The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.
For details of piles and concrete encasement see sheet 17 of 22.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

## PILE DATA

Type: Steel HP 12x53
Nominal Required Bearing: 420 kips
Allowable Resistance Available: 140 kips
Est. Length: 69 ft.
No. Production Piles: 7
No. Test Piles: 1

# PIER 2
# US. ROUTE 150
# OVER KICKAPOO CREEK
# FAU ROUTE 6406 SECTION 1(BR-2)
# MCLEAN COUNTY
# STATION 407+23.50
# STRUCTURE NO. 057-0246