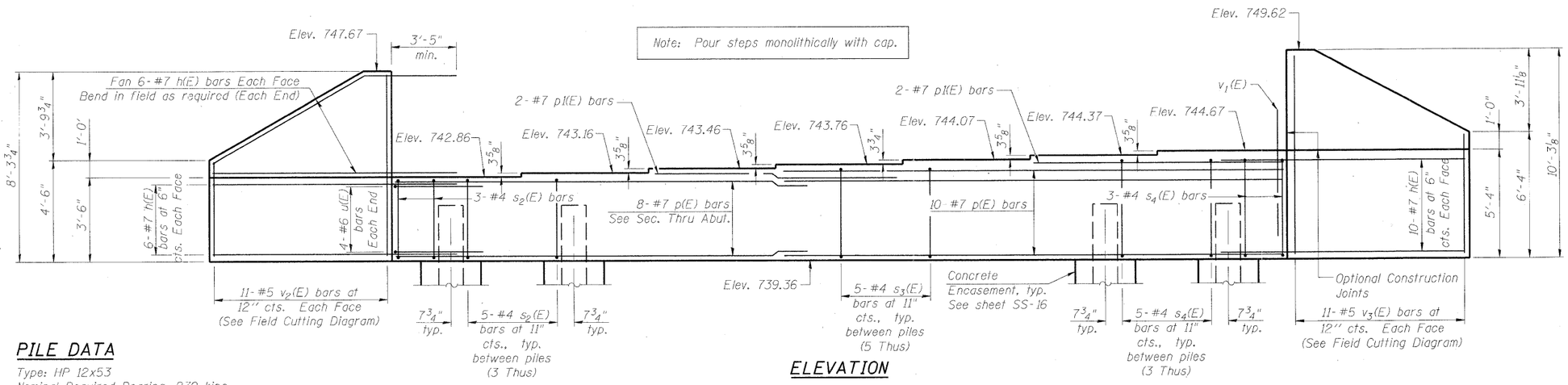
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

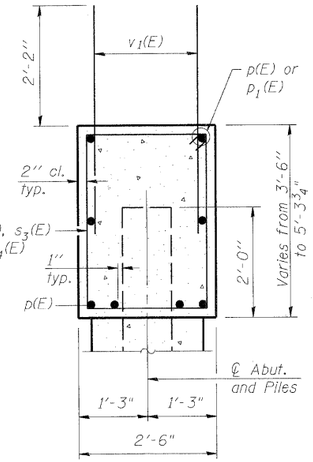
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| - | - | KANE | 545 | 364 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT- | |

SHEET SS- 15 OF 22 SHEETS

Contract # 63074




ELEVATION

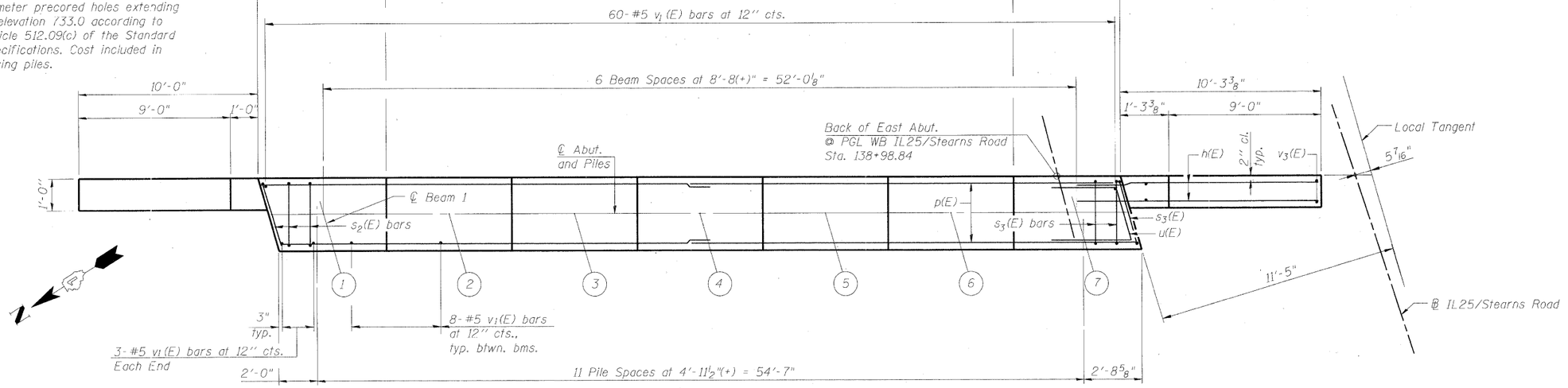



SECT. THRU ABUT.

## PILE DATA

Type: HP 12x53
Nominal Required Bearing: 270 kips
Allowable Resistance Available: 90 kips
Est. Length: 72.0 Feet
No. Production Piles: 11
No. Test Piles: 1

Piles shall be driven through 1'-6" diameter precored holes extending to elevation 733.0 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

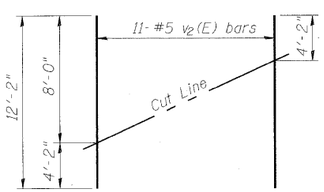



PLAN

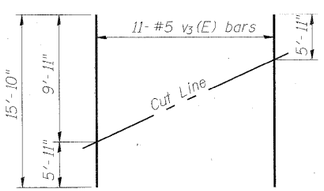
## BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| h(E) | 56 | #7 | 14'-3" | |
| p(E) | 18 | #7 | 31'-11" | |
| p1(E) | 4 | #7 | 17'-0" | |
| s2(E) | 18 | #5 | 11'-7" | |
| s3(E) | 25 | #5 | 12'-9" | |
| s4(E) | 18 | #5 | 14'-7" | |
| u(E) | 8 | #6 | 6'-7" | |
| v1(E) | 114 | #5 | 4'-4" | |
| v2(E) | 11 | #5 | 12'-2" | |
| v3(E) | 11 | #5 | 15'-10" | |
| Concrete Structures | | Cu. Yd. | 29.9 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 4,690 | |
| Furnishing Steel Piles, HP12x53 | | Foot | 792 | |
| Driving Piles | | Foot | 792 | |
| Test Pile Steel, HP12x53 | | Each | 1 | |
| Pile Shoes | | Each | 12 | |
| Concrete Encasement | | Cu. Yd. | 4.2 | |

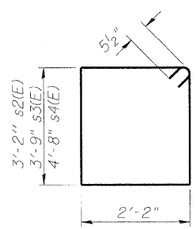
For details of piles and Concrete Encasement, see sheet SS-16.



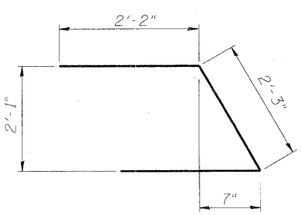

FIELD CUTTING DIAGRAM
Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.




FIELD CUTTING DIAGRAM
Order $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.




BARS s2(E) & s3(E)




BAR u(E)

| | |
|---|---|
| DESIGNED | AJK |
| CHECKED | AAY |
| DRAWN | AYR |
| CHECKED | HMA/DMC |

benesch
alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450
Job # 3944

EAST ABUTMENT-PLAN AND ELEVATION
IL 25/STEARNS ROAD OVER THE
EAST BRANCH OF BREWSTER CREEK
F.A.P. 2503 - SEC. 06-00214-15-BR
KANE COUNTY
STATION 138+59.20
STRUCTURE NO. 045-2035

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4/27/2009