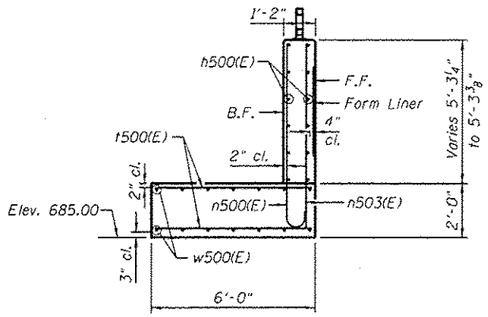
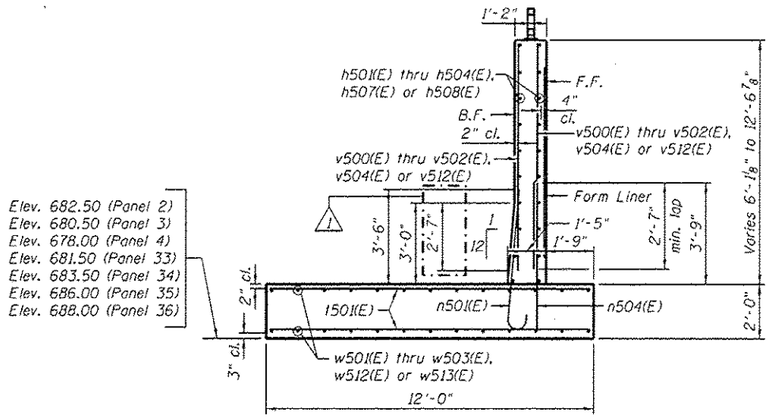


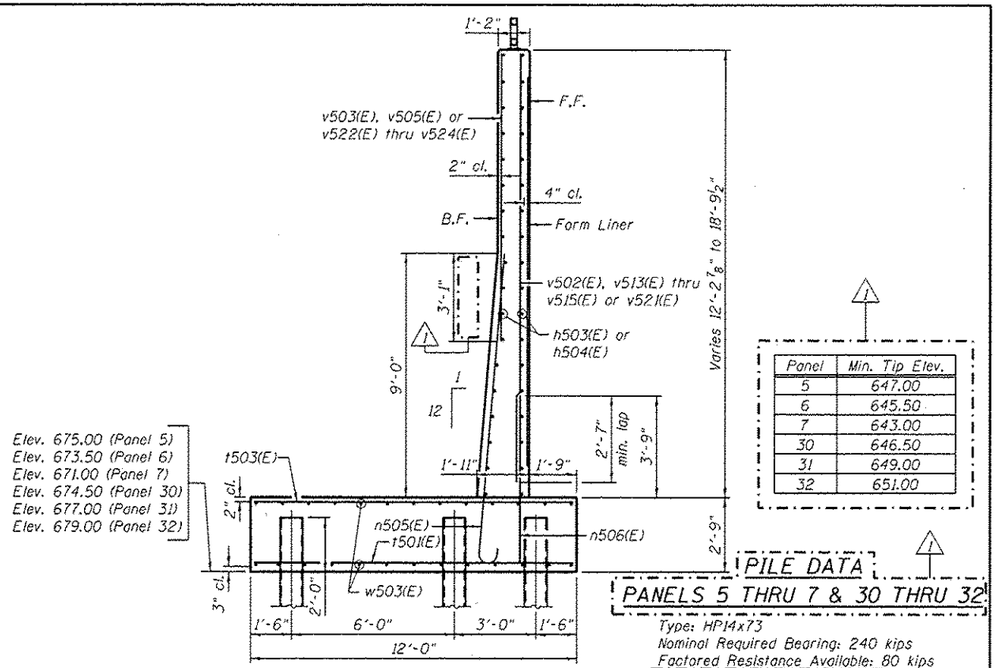

## SECTION A-A
## PANEL 1

*Maximum Applied Service Bearing Pressure Qmax = 1.32 ksf*




## SECTION B-B
## PANELS 2 THRU 4 & 33 THRU 36

*Maximum Applied Service Bearing Pressure Qmax = 2.00 ksf*



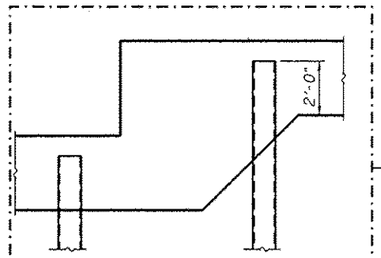

## SECTION C-C
## PANELS 5 THRU 7 & 30 THRU 32

| Panel | Min. Tip Elev. |
|---|---|
| 5 | 647.00 |
| 6 | 645.50 |
| 7 | 643.00 |
| 30 | 646.50 |
| 31 | 649.00 |
| 32 | 651.00 |

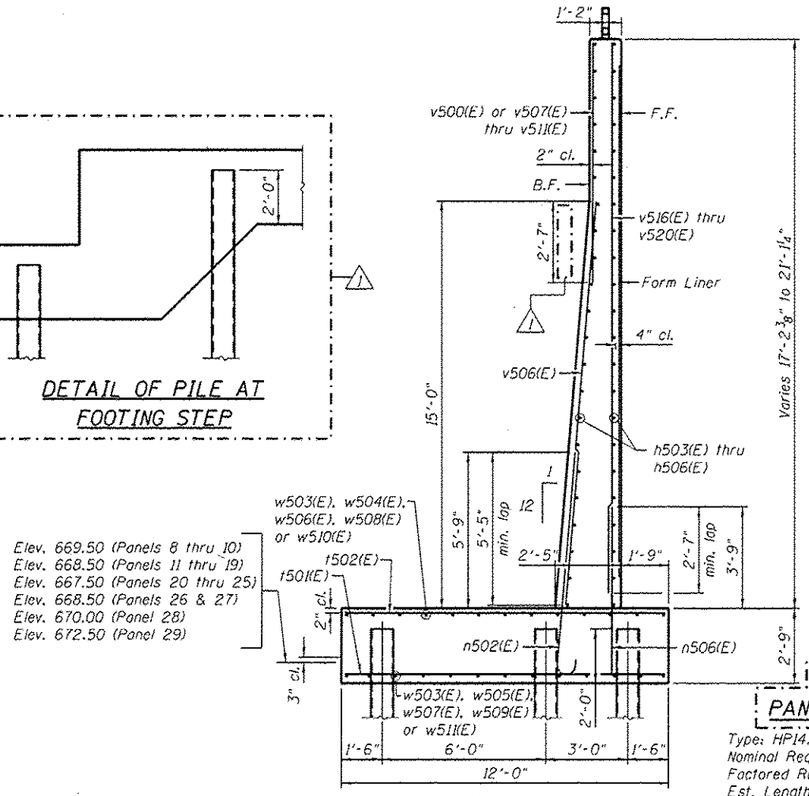
## PILE DATA
## PANELS 5 THRU 7 & 30 THRU 32

Type: HP14x73
Nominal Required Bearing: 240 kips
Factored Resistance Available: 80 kips
Est. Length: 30' *
Min. Tip Elevation: (See Table)
No. Production Piles: 124
No. Test Piles: 2 (recommended in panels 5 and 32)

* Pile length is required for fixity to resist lateral load.



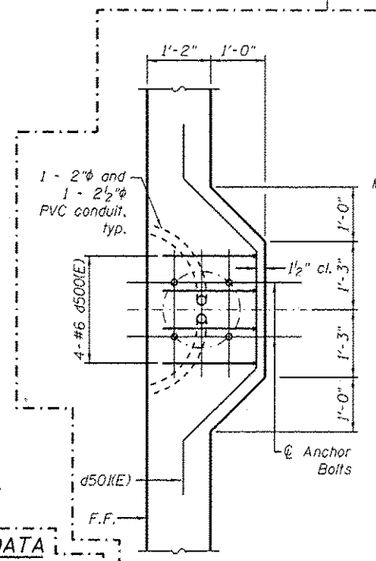

## DETAIL OF PILE AT FOOTING STEP



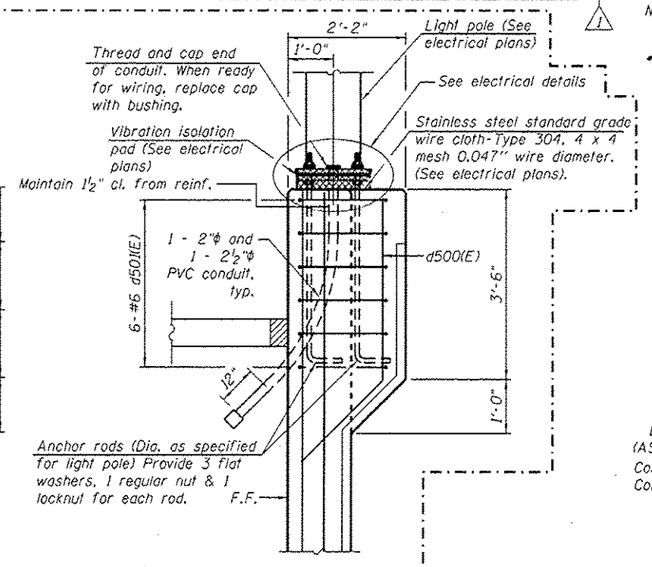

## SECTION D-D
## PANELS 8 THRU 29

## PILE DATA
## PANELS 8 THRU 29

Type: HP14x73 with pile shoes
Nominal Required Bearing: 216 kips
Factored Resistance Available: 80 kips
Est. Length: 55'
No. Production Piles: 446
No. Test Piles: 4 (recommended in panels 8, 15, 21, and 29)

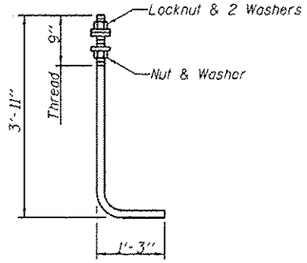



## PLAN




## ELEVATION
*Looking North*

## LIGHT POLE DETAILS
*Mounted on retaining wall Typical, 4 locations*




## ANCHOR ROD

*Diameter as specified for light poles. (ASTM F 1554 Grade 105)*
*Cost of anchor rods is included with Concrete Structures.*

## LEGEND:

F.F. = Front Face of Wall
B.F. = Back Face of Wall
E.F. = Each Face of Wall

## NOTES:

1. For Bar List see Sheet 10.

URS
100 S. WACKER DR.
SUITE 500
CHICAGO, IL 60606
TEL (312)939-0000
FAX (312)939-4168

| | | | |
|---|---|---|---|
| FILE NAME = 016Z005-60M62-009-detdgn | USER NAME = arsalan.khan | DESIGNED - PMH | REVISED - ⚠ 4/12/2013 K.M.P. |
| | | CHECKED - AMK | REVISED - |
| | PLOT SCALE = 514.0001 '/ in. | DRAWN - PMH | REVISED - |
| | PLOT DATE = 4/12/2013 | CHECKED - AMK | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**SECTIONS AND DETAILS**
**STRUCTURE NO. 016-Z005**
SHEET NO. 9 OF 21 SHEETS

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 330 | 103R-5 | COOK | 778 | 428 |
| | | CONTRACT NO. 60M62 | | |
| | ILLINOIS FED. AID PROJECT | | | |