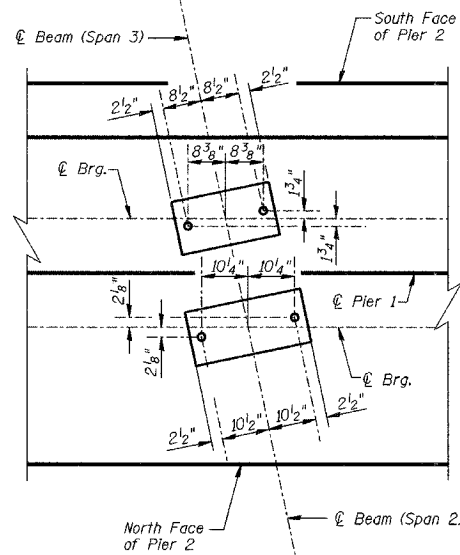


**ANCHOR BOLT LAYOUT - PIER 1**



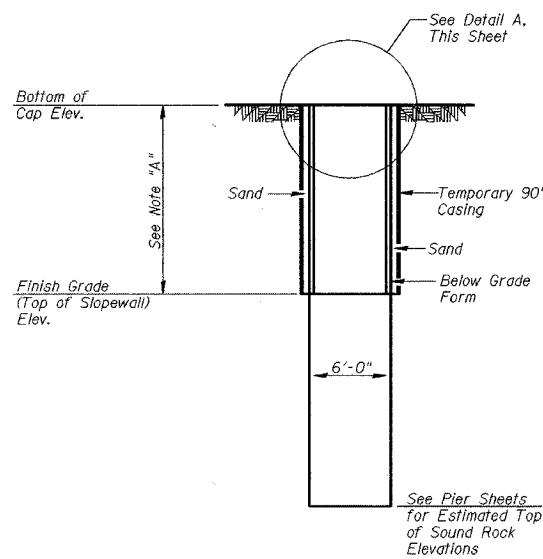
**ANCHOR BOLT LAYOUT - PIER 2**

**PIER 1  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>30</sub> (E)	4	#5	19'-8"	—
h <sub>33</sub> (E)	4	#5	22'-3"	—
D <sub>6</sub> (E)	6	#5	19'-8"	—
D <sub>7</sub> (E)	6	#9	19'-3"	—
D <sub>8</sub> (E)	6	#5	19'-3"	—
D <sub>9</sub> (E)	6	#9	22'-3"	—
D <sub>10</sub> (E)	6	#5	22'-3"	—
D <sub>11</sub> (E)	6	#9	22'-8"	—
D <sub>12</sub> (E)	6	#5	22'-8"	—
D <sub>13</sub> (E)	6	#9	19'-8"	—
D <sub>14</sub> (E)	5	#8	20'-7"	—
D <sub>15</sub> (E)	5	#8	20'-2"	—
D <sub>16</sub> (E)	5	#8	23'-2"	—
D <sub>17</sub> (E)	5	#8	23'-7"	—
s <sub>3</sub> (E)	30	#6	21'-4"	□
s <sub>4</sub> (E)	43	#5	6'-3"	—
sp <sub>1</sub> (E)	4	#5	59'-2"	—
u(E)	10	#8	14'-8"	—
v <sub>13</sub> (E)	132	#10	11'-2"	—
v <sub>14</sub> (E)	132	#10	59'-0"	—
Structure Excavation	Cu. Yd.	184.3		
Bar Splicer	Each	32		
Concrete Structures	Cu. Yd.	47.2		
Reinforcement Bars, Epoxy Coated	Pound	53,400		
Concrete Sealer	Sq. Ft.	349		
Drilled Shaft in Soil	Cu. Yd.	247.1		

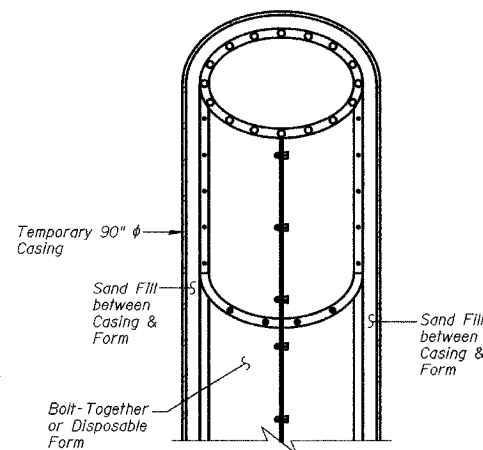
**PIER 2  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>30</sub> (E)	4	#5	19'-3"	—
h <sub>33</sub> (E)	4	#5	22'-8"	—
D <sub>6</sub> (E)	6	#5	19'-8"	—
D <sub>7</sub> (E)	6	#9	19'-3"	—
D <sub>8</sub> (E)	6	#5	19'-3"	—
D <sub>9</sub> (E)	6	#9	22'-3"	—
D <sub>10</sub> (E)	6	#5	22'-3"	—
D <sub>11</sub> (E)	6	#9	22'-8"	—
D <sub>12</sub> (E)	6	#5	22'-8"	—
D <sub>13</sub> (E)	6	#9	19'-8"	—
D <sub>14</sub> (E)	5	#8	20'-7"	—
D <sub>15</sub> (E)	5	#8	20'-2"	—
D <sub>16</sub> (E)	5	#8	23'-2"	—
D <sub>17</sub> (E)	5	#8	23'-7"	—
s <sub>3</sub> (E)	30	#6	21'-4"	□
s <sub>5</sub> (E)	43	#5	6'-9"	—
sp <sub>1</sub> (E)	4	#5	59'-2"	—
u(E)	10	#8	14'-8"	—
v <sub>13</sub> (E)	132	#10	11'-2"	—
v <sub>14</sub> (E)	132	#10	59'-0"	—
Structure Excavation	Cu. Yd.	184.3		
Bar Splicer	Each	32		
Concrete Structures	Cu. Yd.	48.1		
Reinforcement Bars, Epoxy Coated	Pound	53,420		
Concrete Sealer	Sq. Ft.	368		
Drilled Shaft in Soil	Cu. Yd.	247.1		

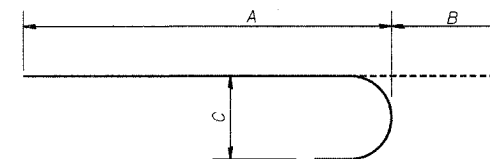


**FORMING DETAIL AT PIER**

Note "A":  
A smooth finish surface is required in this area. Install a Temporary 90" Casing to provide adequate clearance for removable below-grade forms to be placed in this area. Backfill with sand between temporary casing and forms. Set rebar and insert. Remove Casing. Place Concrete in Shaft. During Stage II, Step 14, Sheet 3 of 24, excavate to expose the removable forms. Remove forms and expose inserts. Cost of Casing, sand, and associated work is included with Drilled Shafts in Soil 72".

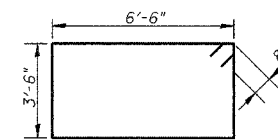


**DETAIL A**

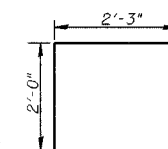


**BARS D<sub>14</sub>(E) THRU D<sub>17</sub>(E) & v<sub>13</sub>(E)**

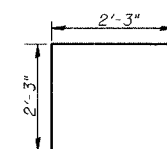
Bar	A	B	C
D <sub>14</sub> (E)	19'-8"	11"	8"
D <sub>15</sub> (E)	19'-3"	11"	8"
D <sub>16</sub> (E)	22'-3"	11"	8"
D <sub>17</sub> (E)	22'-8"	11"	8"
v <sub>13</sub> (E)	9'-9"	1'-5"	1'-1 1/4"



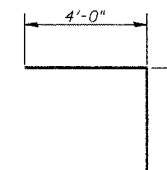
**BAR s<sub>3</sub>(E)**



**BAR s<sub>4</sub>(E)**



**BAR s<sub>5</sub>(E)**



**BAR u(E)**

**PIER DETAILS & BILL OF MATERIALS**

Date	Designed MJP	CSX TRANSPORTATION R.R. OVER WINTER AVE. MP OZA I2L6 SECTION 99-00209-01-PV CITY OF DANVILLE, IL VERMILION COUNTY STA. 5527+59.81 PROP. STR. NO. 092-6039	Sheet No.
Revisions	Drawn BKN		20
	Checked KWB		
	Approved KWB		
Prepared by:	URS 345 East Ash Avenue, Suite B Decatur, IL 62526		of 24 URS Job No. 36430866