



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

February 12, 2013

CALL NO. 202
CONTRACT ID NO. 131305
ADDENDUM # 1

Subject: Marshall-Trigg Counties, 121GR13D054-BRO
Letting February 22, 2012

- (1) Revised - Plan Sheets - S1, S4, S9, S11, S12, S22, S23 & S24
- (2) Added - Special Note - Page 87(a) of 272
- (3) Revised - Material Summary - Page 176-178 of 272
- (4) Revised - Bid Items - Pages 270-272 of 272

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

MARSHALL / TRIGG COUNTY RECONSTRUCT US68 / KY80 OVER KENTUCKY LAKE STA. 972+15.00

INDEX OF SHEETS

Sheet No.	Description
S1	TITLE SHEET
S2-S3	GENERAL NOTES
S4	LAYOUT
S5	TYPICAL SECTION
S6-S8A	SUBSURFACE DATA
S9	FOUNDATION LAYOUT
S10-S12	PILE RECORD
S13	PRE-DRIVING NOTES
S14	HP18X157 STEEL PILE DETAILS
S15	30" PIPE PILE DETAILS
S16-S18	INTEGRAL END BENT 1
S19	WINGWALLS A & B
S20	IEB1 BILL OF REINFORCEMENT
S21	PIER 1
S22	PIER 2
S23	PIER DETAILS
S24	PIER BILL OF REINFORCEMENT
S25-S27	INTEGRAL END BENT 2
S28	WINGWALL C
S29	WINGWALL D
S30	IEB2 BILL OF REINFORCEMENT
S31-S33	FRAMING PLAN/GIRDER ELEVATIONS
S34-S39	STRUCTURAL STEEL DETAILS
S40	FIXED BEARINGS AT PIERS 1 & 2
S41	SLAB TYPICAL SECTION
S42	SLAB GEOMETRY
S43-S46	PLAN OF SLAB
S47	DECK TYPICAL DETAILS
S48	RAIL DETAILS
S49-S50	APPROACH SLAB
S51-S55	APPROACH SLAB RAIL DETAILS
S56	SLAB BILL OF REINFORCEMENT
S57-S59	CONSTRUCTION ELEVATIONS
S60	FUTURE DECK REPLACEMENT

SPECIAL NOTES

FOR DYNAMIC PILE TESTING
FOR STATIC AND PSEUDO-STATIC PILE TESTING
FOR PILE LOAD TEST PROGRAM

SPECIAL PROVISIONS

STANDARD DRAWINGS

BGX-006-08	STENCILS FOR STRUCTURES
BGX-012-02	GEOTECHNICAL LEGEND
BJE-001-12	EXP DAMS AND ARMORED EDGES

SPECIFICATIONS

2012 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2010 AASHTO LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES.

ESTIMATE OF QUANTITIES

BID ITEM CODE	08100	08104	08150	08151	08001	08500	24532ED	02231	02998	08160	08170	03299	24533ED	08033	24534ED	08033	23233EC	23233EC	08040	08040	24545EC	24544EC	24535ED	24535ED	08039	08039	24536ED	24537ED	23699ED	24538ED
BID ITEM	CONCRETE CLASS "A"	CONCRETE CLASS "AA"	STEEL REINFORCEMENT	STEEL REINFORCEMENT, EPOXY COATED	STRUCTURE EXCAVATION COMMON	APPROACH SLAB	EXPANSION DAM - 3 1/2" NEOPRENE	STRUCTURE GRANULAR BACKFILL	MASONRY COATING	STRUCTURAL STEEL	SHEAR CONNECTORS	ARMORED EDGE FOR CONCRETE	PILES - STEEL HP 18 x 157	TEST PILES - HP 18X157	PIPE PILES 30"	TEST PILES - 30" PIPE	DYNAMIC PILE TEST ON LAND INITIAL	DYNAMIC PILE TEST ON LAND RESTRIKE	STATIC LOAD TEST HP 18X157	STATIC LOAD TEST 30" PIPE PILES	PIPE PILE BACKFILL	REMOVAL OF SOIL PLUG 30" PIPE PILES	PRE-PROBING HP 18X157	PRE-PROBING 30" PIPE PILE	PRE-DRILLING HP 18X157	PRE-DRILLING 30" PIPE PILE	PILE POINTS 18"	OPEN END INSIDE FIT CUTTING SHOE 30"	STEEL ENCASEMENT PIPE - 30"	RAIL SYSTEM TYPE II
UNIT	C.Y.	C.Y.	LBS.	LBS.	C.Y.	S.Y.	L.F.	C.Y.	S.Y.	L.S.	L.S.	L.F.	L.F.	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	TONS	L.F.	L.F.	L.F.	L.F.	L.F.	EACH	EACH	L.F.	L.F.
INTEGRAL END BENT #1	56	109	4628	10070		179		322	92				385	225			3	5	1				500	350			10			
PIER #1	312		62809		464				277						740	190	2	2			85	250		340		456		12		
PIER #2	302		58403		387				246						870	315	3	5		1	85	250		475		546		13		
INTEGRAL END BENT #2	54	112	4621	9825		179		318	93				770	260			2	2					294	693		9		100		
SUBSTRUCTURE																														
SUPERSTRUCTURE		1179		408353			129		1764	1		129																		1268
BRIDGE TOTALS	724	1400	130461	428248	851	358	129	640	2472	1	1	129	1155	485	1610	505	10	14	1	1	170	500	794	815	1043	1002	19	25	100	1268

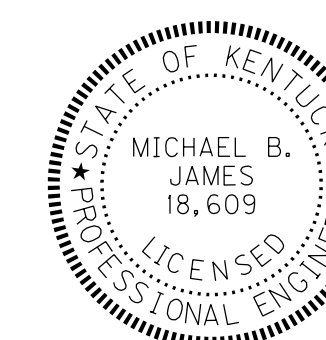
① EACH SUBSTRUCTURE UNIT REQUIRES A615 AND A706 STEEL REINFORCEMENT. THE ESTIMATED WEIGHTS OF EACH ARE:

SUBSTRUCTURE	A706	A615
IEB 1	511 LBS.	4117 LBS.
PIER 1	26670 LBS.	36139 LBS.
PIER 2	21495 LBS.	36908 LBS.
IEB 2	511 LBS.	4110 LBS.

② ESTIMATED WEIGHT OF STRUCTURAL STEEL = 1565339 LBS.

③ ESTIMATED WEIGHT OF SHEAR CONNECTORS = 10332 LBS.

Baker



Michael B. James



ITEM NUMBER

01-180.75

REV'D PIER 2 STEEL REINF & PILE QTY		02/05/13
REVISION		
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: ACK	CYY	
DETAILED BY: CEW	CYY	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
TITLE SHEET		
PREPARED BY	SHEET NO.	
Baker	S1	
MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223	DRAWING NO. 26819	

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYCO.DWYER\0017637\S26819_001.DGN
 CONSTRUCTION PROJECT NO.
 LETTING DATE
 USER: Moryko,Dwyer
 DATE PLOTTED: Febr-uary 5, 2013
 E-SHEET NAME: S26819_001
 MicroStation v8.11.7.443

△ REVISED 2-5-13

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

MARSHALL / TRIGG COUNTY RECONSTRUCT US68 / KY80 OVER KENTUCKY LAKE STA. 972+15.00

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UNIT	C. Y.	C. Y.	LBS.	LBS.	C. Y.	S. Y.	L. F.	C. Y.	S. Y.	L. S.	L. S.	L. F.	L. F.	L. F.	L. F.	EACH	EACH	EACH	EACH	TONS	L. F.	L. F.	L. F.	L. F.	L. F.	EACH	EACH	L. F.	L. F.		
INTEGRAL END BENT #1	56	109	4628	10070		179		322	92				385	225																	
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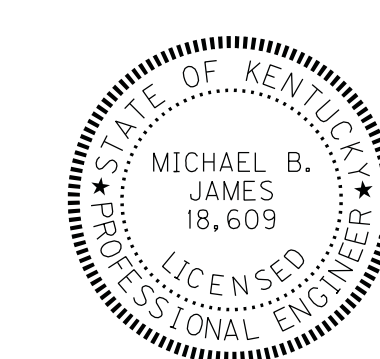
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Baker



Michael B. James

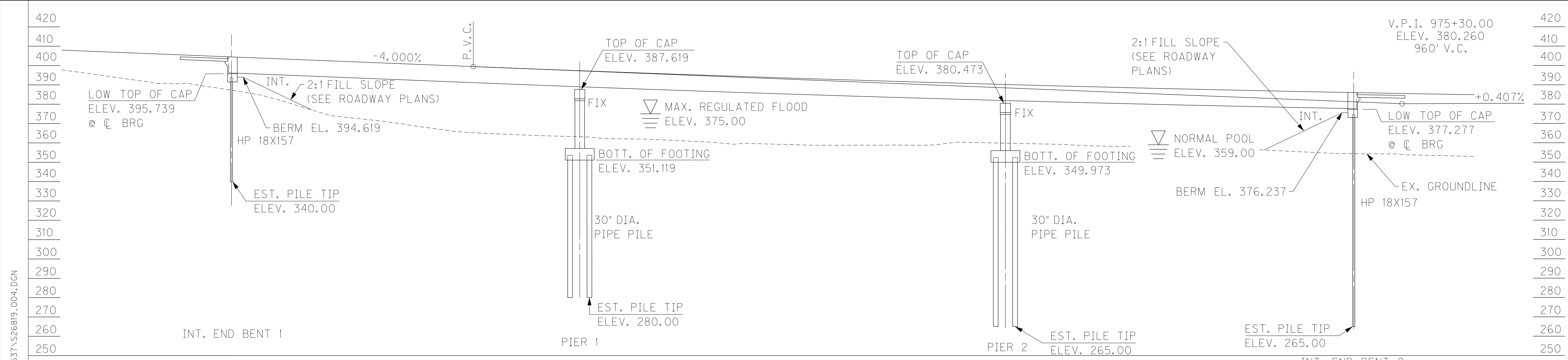


ITEM NUMBER

01-180.75

△ REV'D PIER 2 STEEL REINF & PILE QTY		02/05/13
REVISION		
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: ACK	CYY	
DETAILED BY: CEW	CYY	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
TITLE SHEET		
PREPARED BY	SHEET NO.	
Baker	S1	
MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 310 LOUISVILLE, KY 40223	DRAWING NO. 26819	

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJO.DWYER\0017637\S26819_001.DGN
 USER: Moryjo.Dwyer
 DATE PLOTTED: February 5, 2013
 E-SHEET NAME: S26819_001
 MicroStation v8.11.7.443
 CONSTRUCTION PROJECT NO.
 LETTING DATE



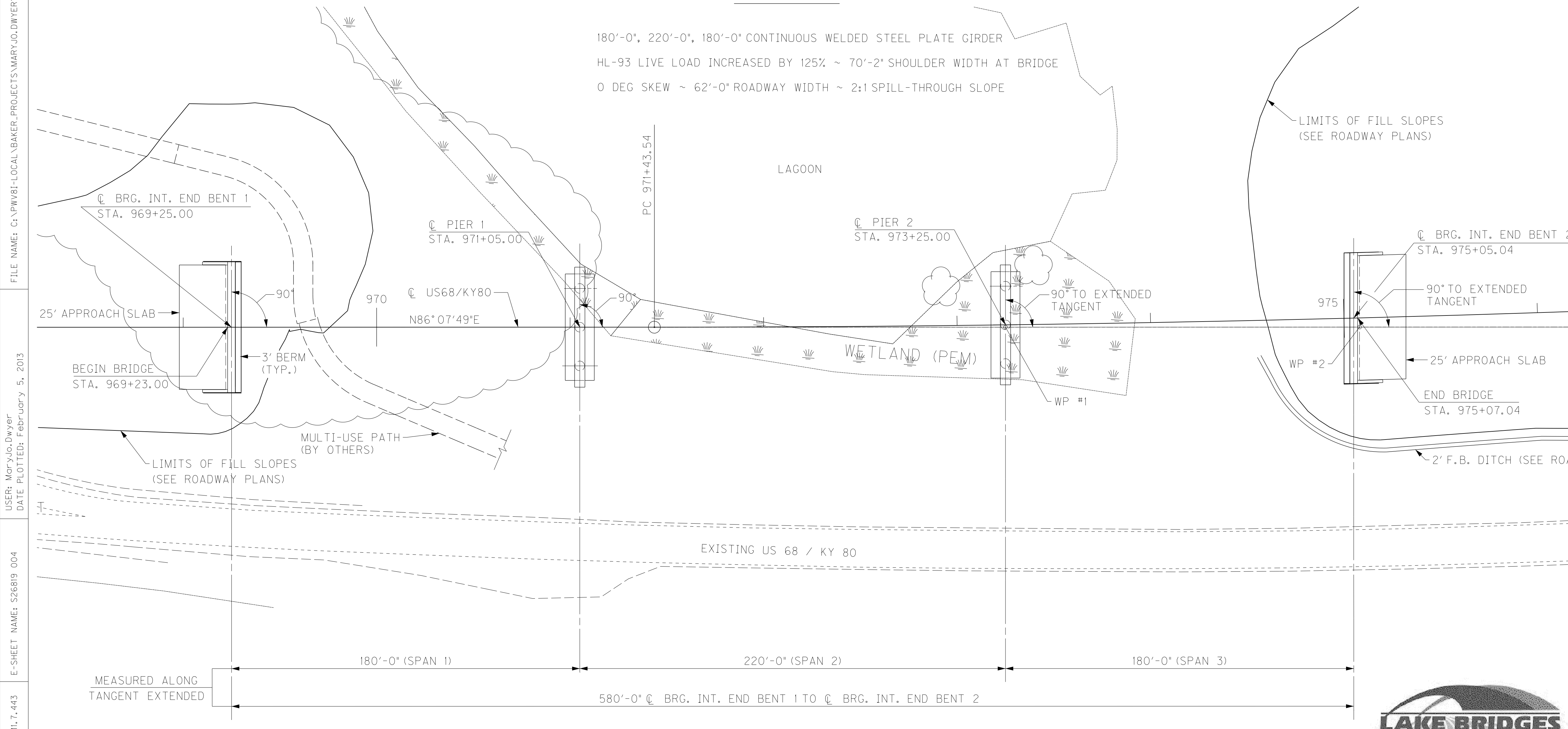
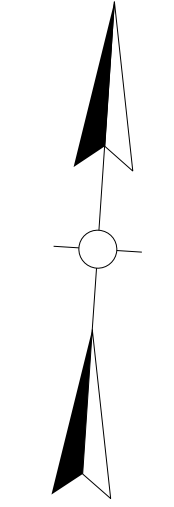
ELEVATION

180'-0", 220'-0", 180'-0" CONTINUOUS WELDED STEEL PLATE GIRDER
 HL-93 LIVE LOAD INCREASED BY 125% ~ 70'-2" SHOULDER WIDTH AT BRIDGE
 0 DEG SKEW ~ 62'-0" ROADWAY WIDTH ~ 2:1 SPILL-THROUGH SLOPE

NOTES

1. FOR WORK POINT DETAIL SEE SHEET NO. S9.
2. DUE TO BACKWATER CONDITION, NO SCOUR IS EXPECTED AT THE FOUNDATIONS.
3. GRADING DETAIL OF FILL SLOPES IS INCLUDED IN THE ROADWAY PLANS.
4. STRUCTURE GRANULAR BACKFILL PLACEMENT AT THE END BENTS VARIES FROM THE STANDARD DRAWINGS, SEE SHEET NO. S49 AND ROADWAY PLANS.

CURVE DATA
 P.I. 978+60.46
 D=5° 51'47"
 T=716.92
 L=1432.59
 R=14000.00
 E=18.34
 e=NC
 DESIGN SPEED=55 mph



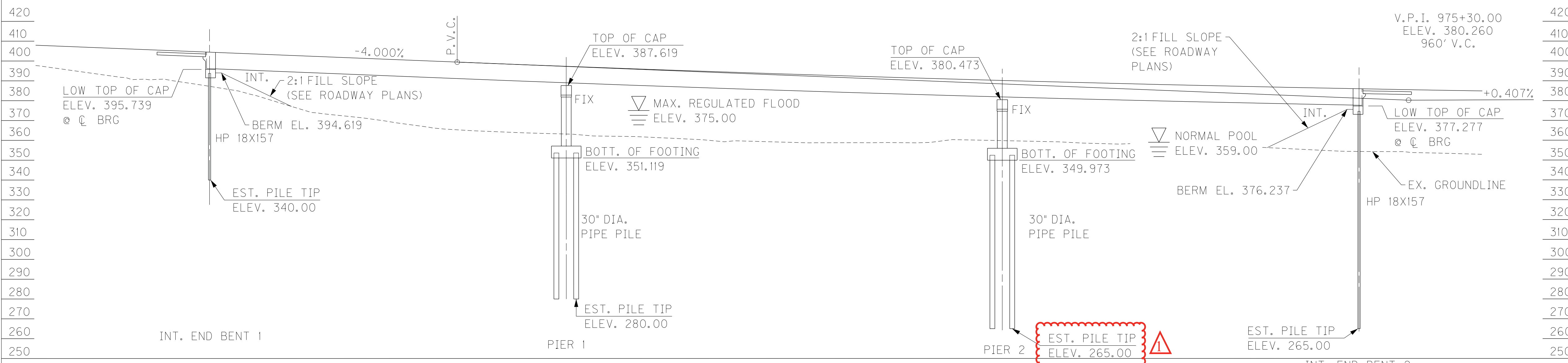
PLAN

(SUPERSTRUCTURE REMOVED)



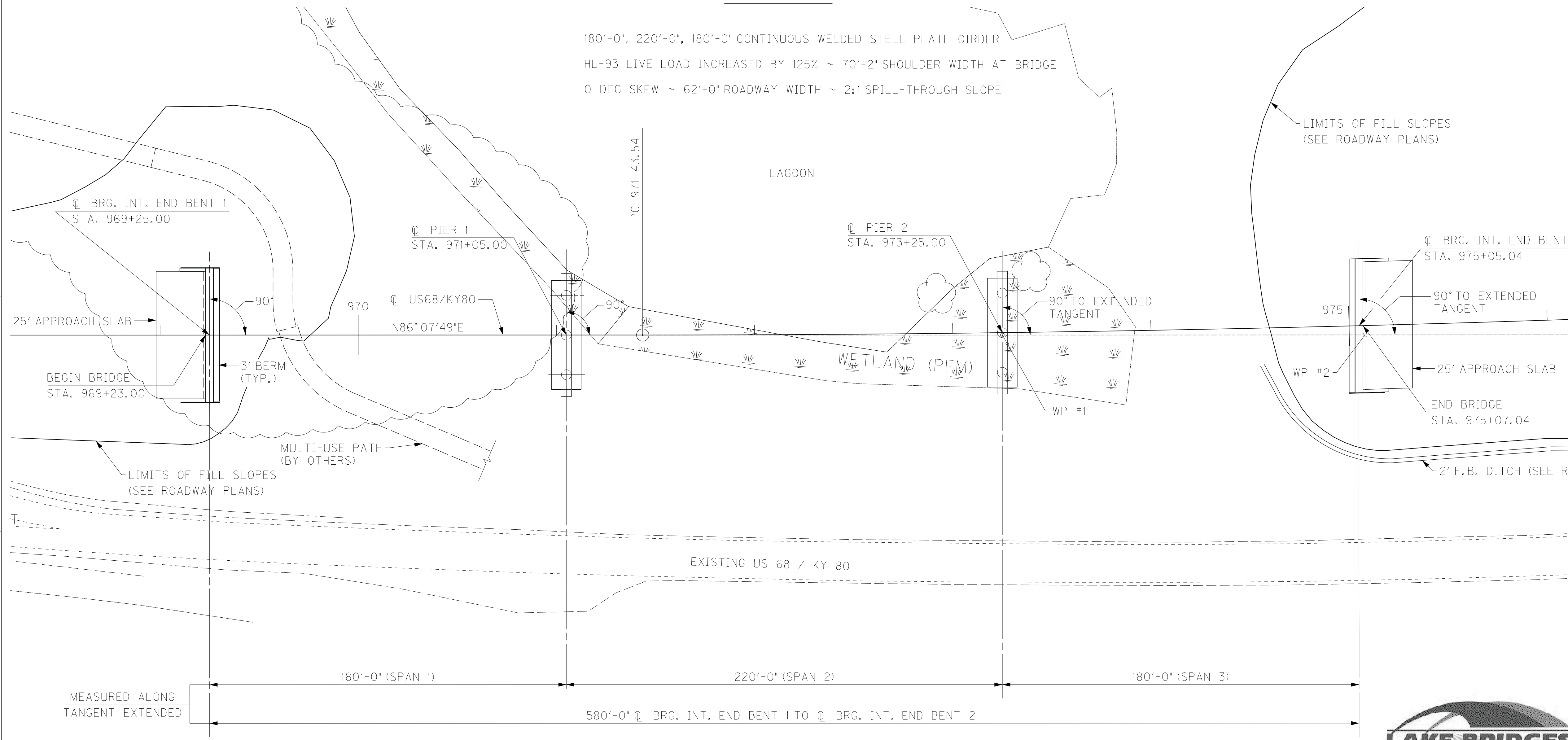
REVISION		DATE
REVISED PIER 2 PILE TIP		02/05/13
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: DMB	MBJ	
DETAILED BY: CEW	DMB	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
LAYOUT		
ITEM NUMBER	SHEET NO.	
01-180.75	S4	
Baker	DRAWING NO. 26819	
PREPARED BY MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223		

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJO.DWYER\0017637\S26819_004.DGN
 USER: Mofyjo,Dwyer
 DATE PLOTTED: February 5, 2013
 E-SHEET NAME: S26819_004
 MicroStation v8.11.7.443



ELEVATION

180'-0", 220'-0", 180'-0" CONTINUOUS WELDED STEEL PLATE GIRDER
 HL-93 LIVE LOAD INCREASED BY 125% ~ 70'-2" SHOULDER WIDTH AT BRIDGE
 0 DEG SKEW ~ 62'-0" ROADWAY WIDTH ~ 2:1 SPILL-THROUGH SLOPE



PLAN

(SUPERSTRUCTURE REMOVED)

- NOTES** ▲ REVISED 2-5-13
- FOR WORK POINT DETAIL SEE SHEET NO. S9.
 - DUE TO BACKWATER CONDITION, NO SCOUR IS EXPECTED AT THE FOUNDATIONS.
 - GRADING DETAIL OF FILL SLOPES IS INCLUDED IN THE ROADWAY PLANS.
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 P.I. 978+60.46
 D=5° 51'47"
 T=716.92
 L=1432.59
 R=14000.00
 E=18.34
 e=NC
 DESIGN SPEED=55 mph

▲ REVISED PIER 2 PILE TIP REVISION: 02/05/13	
DATE: AUGUST 31, 2012	CHECKED BY: MBJ
DESIGNED BY: DMB	MBJ
DETAILED BY: CEW	DMB
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY MARSHALL / TRIGG	
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE
LAYOUT	
ITEM NUMBER 01-180.75	PREPARED BY Baker MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223
	SHEET NO. S4 DRAWING NO. 26819



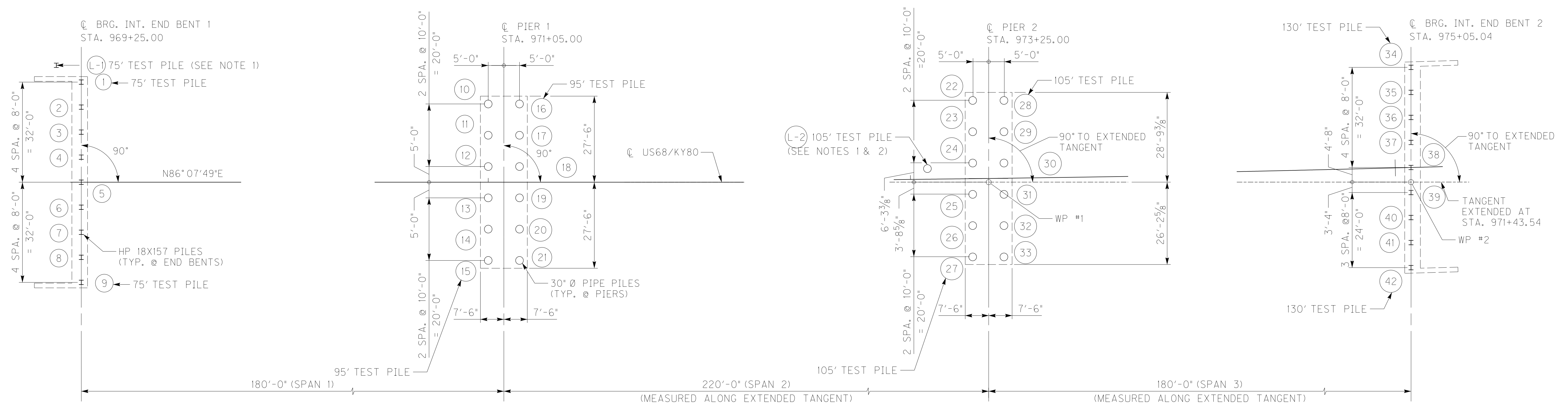
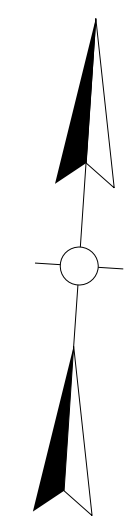
FILE NAME: C:\P\W\81-LOCAL\BAKER_PROJECTS\MARYJO.DWYER\0017637\S26819_004.DGN
 USER: Mofyjo.Dwyer
 DATE PLOTTED: February 5, 2013
 E-SHEET NAME: S26819_004
 MicroStation v8.11.7.443

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJ.D. DWYER\00177637\S26819_009.DGN

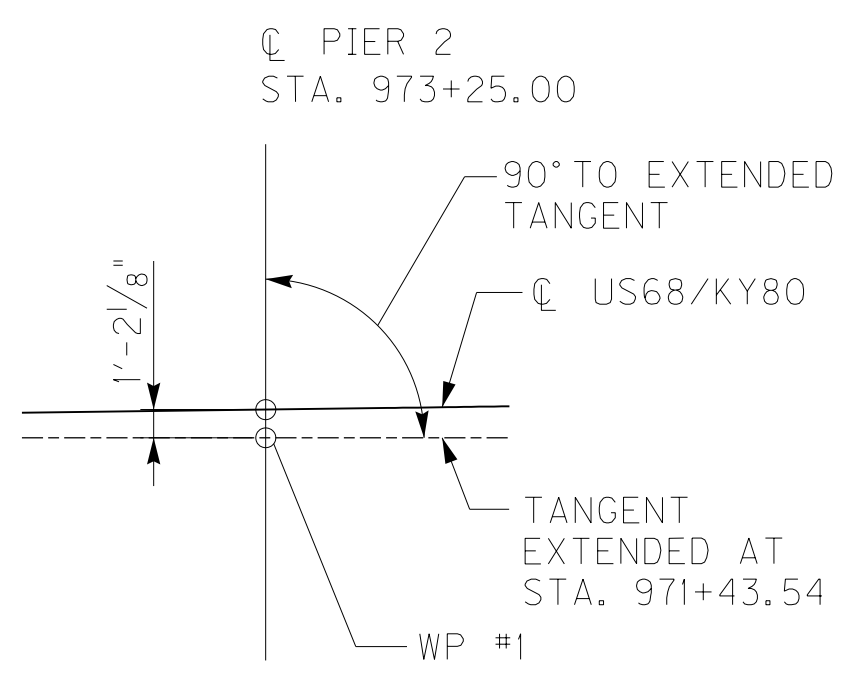
USER: MARYJ.D. DWYER
DATE PLOTTED: FEBRUARY 5, 2013

E-SHEET NAME: S26819_009

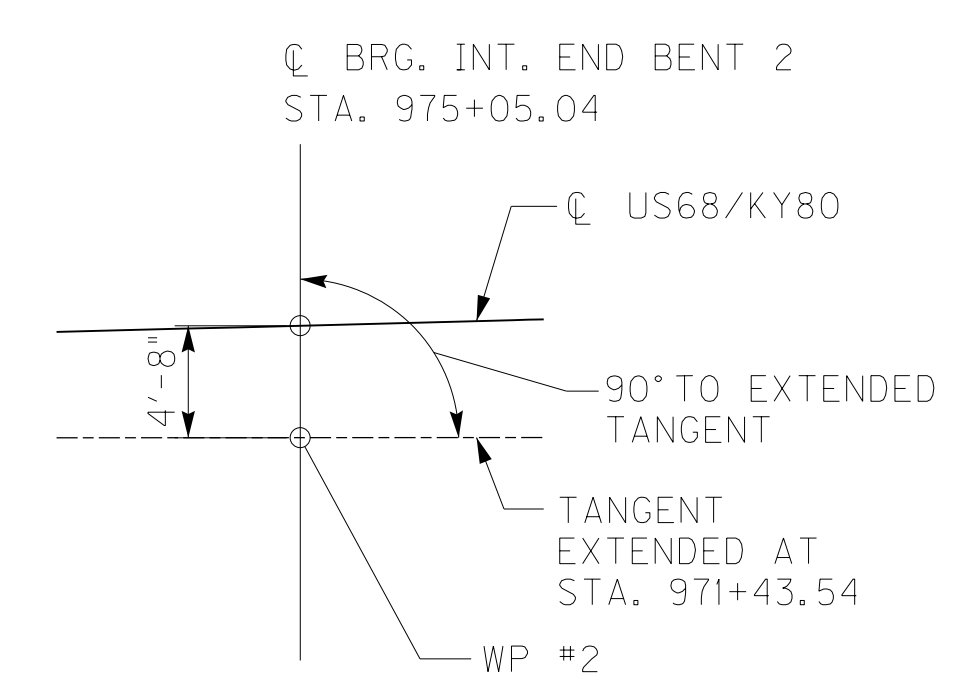
MicroStation v8.11.9.292



FOUNDATION LAYOUT



WP #1 DETAIL



WP #2 DETAIL

NOTES

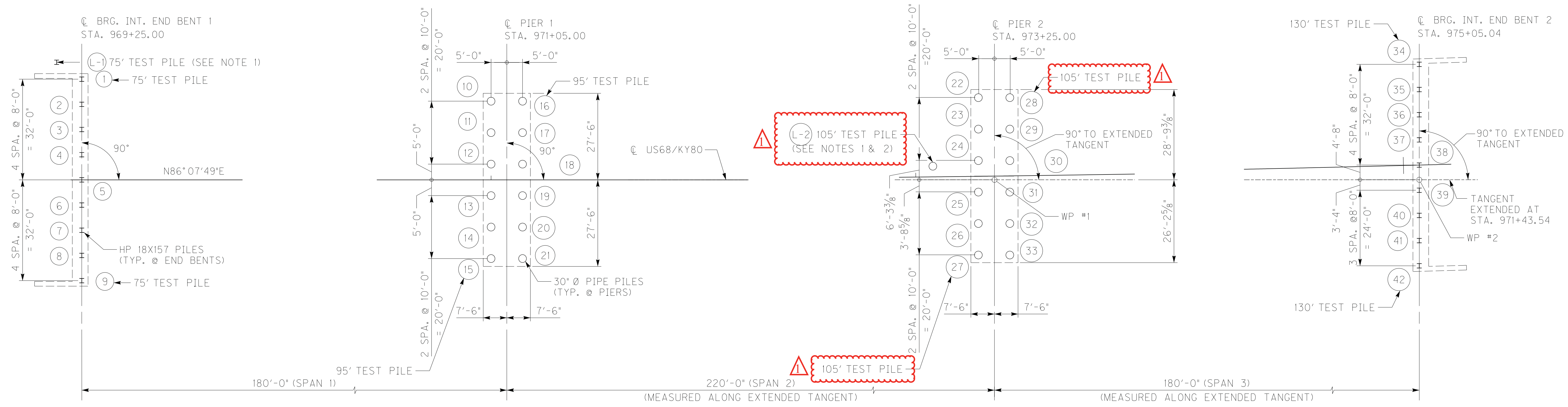
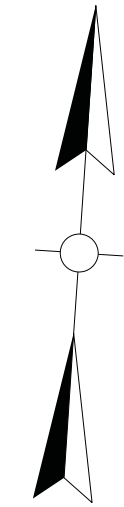
- FOR LOCATION OF LOAD TEST PILES L-1 AND L-2 SEE SPECIAL NOTE FOR PILE TESTING PROGRAM.
- PRIOR TO DRIVING LOAD TEST PILE "L-2" IN THE VICINITY OF PIER 2, EXCAVATE TO APPROXIMATE ELEVATION 350 WITHIN A MINIMUM 7.5 FT. RADIUS AROUND THE LOAD TEST PILE. ANY EXCAVATION REQUIRED IN ADDITION TO EXCAVATION FOR PIER 2 AND ASSOCIATED REFILL IS INCIDENTAL TO THE UNIT BID PRICE FOR "STATIC LOAD TEST - 30 IN PIPE".
- PRIOR TO DRIVING TEST PILES AT PIERS 1 AND 2, EXCAVATE TO THE PLAN BOTTOM OF FOOTING ELEVATION.



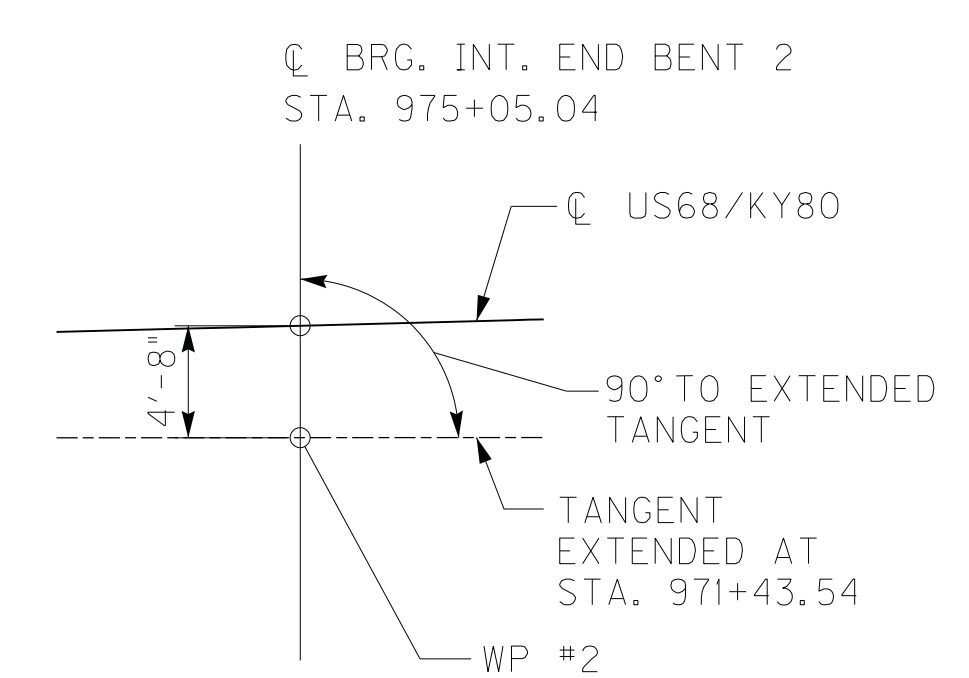
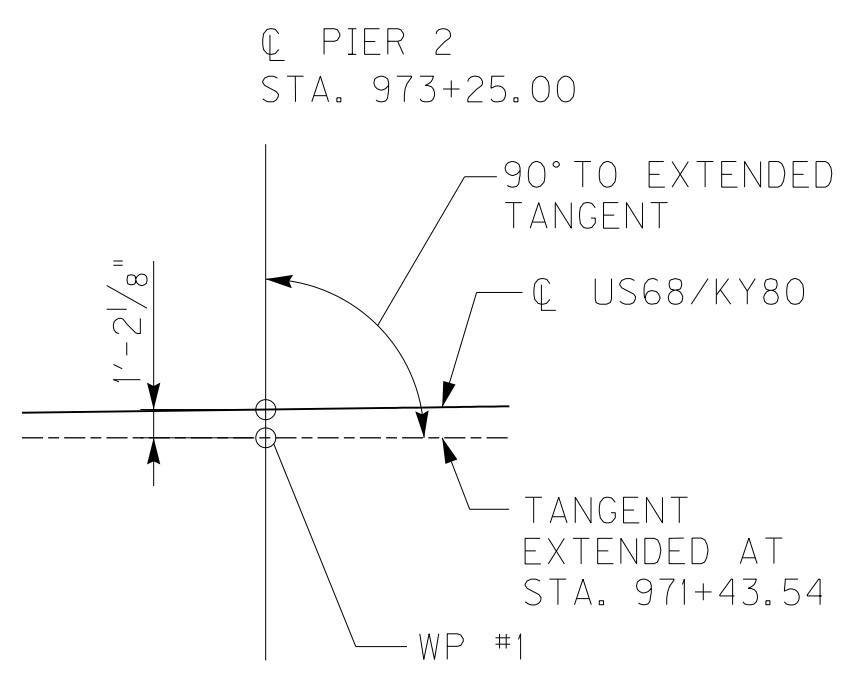
ITEM NUMBER	01-180.75
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REVISION		DATE
REVISED PIER 2 TEST PILE LENGTHS		02/05/13
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: DMB		
DETAILED BY: MJD	JCS	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
FOUNDATION LAYOUT		
PREPARED BY	MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223	SHEET NO. S9 DRAWING NO. 26819





FOUNDATION LAYOUT



NOTES

1. FOR LOCATION OF LOAD TEST PILES L-1 AND L-2 SEE SPECIAL NOTE FOR PILE TESTING PROGRAM.
2. PRIOR TO DRIVING LOAD TEST PILE "L-2" IN THE VICINITY OF PIER 2, EXCAVATE TO APPROXIMATE ELEVATION 350 WITHIN A MINIMUM 7.5 FT. RADIUS AROUND THE LOAD TEST PILE. ANY EXCAVATION REQUIRED IN ADDITION TO EXCAVATION FOR PIER 2 AND ASSOCIATED REFILL IS INCIDENTAL TO THE UNIT BID PRICE FOR "STATIC LOAD TEST - 30 IN PIPE".
3. PRIOR TO DRIVING TEST PILES AT PIERS 1 AND 2, EXCAVATE TO THE PLAN BOTTOM OF FOOTING ELEVATION.

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJ.D. DWYER\00177637\S26819_009.DGN

USER: MARYJ.D. DWYER
 DATE PLOTTED: FEBRUARY 5, 2013

E-SHEET NAME: S26819_009

MicroStation v8.11.9.292

REVISION		DATE
REVISED PIER 2 TEST PILE LENGTHS		02/05/13
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: DMB		
DETAILED BY: MJD	JCS	

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY

MARSHALL / TRIGG

ROUTE **US68** CROSSING **KENTUCKY LAKE LAGOON BRIDGE**

FOUNDATION LAYOUT

PREPARED BY

Baker MICHAEL BAKER JR., INC.
 9750 ORMSBY STATION ROAD
 SUITE 210
 LOUISVILLE, KY 40223

ITEM NUMBER **01-180.75**

SHEET NO. **S9**
 DRAWING NO. **26819**

PILE RECORD FOR FRICTION PILES WITH DYNAMIC TESTING

PILE NO.	PROJECT HAMMER NUMBER	PILE CUT-OFF ELEVATION	PILE LENGTH IN PLACE	POINT OF PILE ELEVATION AS DRIVEN	ESTIMATED POINT OF PILE ELEVATION	HIGHEST ALLOWABLE POINT OF PILE ELEVATION	REQUIRED NOMINAL AXIAL RESISTANCE		DATA OBTAINED FROM DYNAMIC PILE TESTING**								ACTUAL AT EOD		ACTUAL AT BOR	
									NOMINAL TEST PILE RESISTANCE (BASED ON DYNAMIC TESTING)		REQUIRED AT END OF DRIVING (EOD)		REQUIRED AT BEGINNING OF RESTRIKE (BOR)		BLOW COUNT N	HAMMER STROKE H				
									R _n		Blow Count N	Hammer Stroke H	BLOW COUNT N	HAMMER STROKE H			BLOW COUNT N	HAMMER STROKE H		
									KIPS	TONS	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET
PIER 1																				
10		353.62			280.00	305.00	1700	850												
11		353.62			280.00	305.00	1700	850												
12		353.62			280.00	305.00	1700	850												
13		353.62			280.00	305.00	1700	850												
14		353.62			280.00	305.00	1700	850												
15		353.62			280.00	305.00	1700	850												
16		353.62			280.00	305.00	1700	850												
17		353.62			280.00	305.00	1700	850												
18		353.62			280.00	305.00	1700	850												
19		353.62			280.00	305.00	1700	850												
20		353.62			280.00	305.00	1700	850												
21		353.62			280.00	305.00	1700	850												
PIER 2																				
22		352.44			265.00	300.00	1920	960												
23		352.44			265.00	300.00	1920	960												
24		352.44			265.00	300.00	1920	960												
25		352.44			265.00	300.00	1920	960												
26		352.44			265.00	300.00	1920	960												
27		352.44			265.00	300.00	1920	960												
28		352.44			265.00	300.00	1920	960												
29		352.44			265.00	300.00	1920	960												
30		352.44			265.00	300.00	1920	960												
31		352.44			265.00	300.00	1920	960												
32		352.44			265.00	300.00	1920	960												
33		352.44			265.00	300.00	1920	960												


**AFTER EVALUATING THE RESULTS OF DYNAMIC PILE TESTING, THE GEOTECHNICAL BRANCH WILL PROVIDE THE DATA TO FILL IN THESE COLUMNS.

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYU.DWYER\DDT7637\S26819_01.DGN

USER: MARYU.DWYER
DATE PLOTTED: February 5, 2013

E-SHEET NAME: S26819_01

MicroStation v8.11.9.292

REVISION		DATE
△ REVISED PIER 2 TABLE		02/05/13
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: DMB	JCS	
DETAILED BY: CEW	DMB	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY		
MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
PILE RECORD		
ITEM NUMBER	PREPARED BY	
01-180.75	MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223	
		SHEET NO. S11 DRAWING NO. 26819



PILE RECORD FOR FRICTION PILES WITH DYNAMIC TESTING

△ REVISED 2-5-13

PILE NO.	PROJECT HAMMER NUMBER	PILE CUT-OFF ELEVATION	PILE LENGTH IN PLACE	POINT OF PILE ELEVATION AS DRIVEN	ESTIMATED POINT OF PILE ELEVATION	HIGHEST ALLOWABLE POINT OF PILE ELEVATION	REQUIRED NOMINAL AXIAL RESISTANCE		DATA OBTAINED FROM DYNAMIC PILE TESTING**								ACTUAL AT EOD		ACTUAL AT BOR			
									NOMINAL TEST PILE RESISTANCE (BASED ON DYNAMIC TESTING)		REQUIRED AT END OF DRIVING (EOD)		REQUIRED AT BEGINNING OF RESTRIKE (BOR)		BLOW COUNT N	HAMMER STROKE H					BLOW COUNT N	HAMMER STROKE H
									R _n		BLOW COUNT N		HAMMER STROKE H		BLOW COUNT N	HAMMER STROKE H	BLOW COUNT N	HAMMER STROKE H	BLOW COUNT N	HAMMER STROKE H	BLOW COUNT N	HAMMER STROKE H
									KIPS	TONS	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
PIER 1																						
10		353.62			280.00	305.00	1700	850														
11		353.62			280.00	305.00	1700	850														
12		353.62			280.00	305.00	1700	850														
13		353.62			280.00	305.00	1700	850														
14		353.62			280.00	305.00	1700	850														
15		353.62			280.00	305.00	1700	850														
16		353.62			280.00	305.00	1700	850														
17		353.62			280.00	305.00	1700	850														
18		353.62			280.00	305.00	1700	850														
19		353.62			280.00	305.00	1700	850														
20		353.62			280.00	305.00	1700	850														
21		353.62			280.00	305.00	1700	850														
PIER 2																						
22		352.44			265.00	300.00	1920	960														
23		352.44			265.00	300.00	1920	960														
24		352.44			265.00	300.00	1920	960														
25		352.44			265.00	300.00	1920	960														
26		352.44			265.00	300.00	1920	960														
27		352.44			265.00	300.00	1920	960														
28		352.44			265.00	300.00	1920	960														
29		352.44			265.00	300.00	1920	960														
30		352.44			265.00	300.00	1920	960														
31		352.44			265.00	300.00	1920	960														
32		352.44			265.00	300.00	1920	960														
33		352.44			265.00	300.00	1920	960														



**AFTER EVALUATING THE RESULTS OF DYNAMIC PILE TESTING, THE GEOTECHNICAL BRANCH WILL PROVIDE THE DATA TO FILL IN THESE COLUMNS.

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYU.DWYER\DDT7637\S26819_01.DGN

USER: MaryUo.Dwyer
DATE PLOTTED: February 5, 2013

E-SHEET NAME: S26819_01

MicroStation v8.11.9.292

△ REVISED PIER 2 TABLE		02/05/13
REVISION		DATE
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: DMB	JCS	
DETAILED BY: CEW	DMB	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
PILE RECORD		
ITEM NUMBER	PREPARED BY	
01-180.75	Baker	
MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223		SHEET NO. S11 DRAWING NO. 26819



PILE RECORD FOR FRICTION PILES WITH DYNAMIC TESTING

PILE NO.	PROJECT HAMMER NUMBER	PILE CUT-OFF ELEVATION	PILE LENGTH IN PLACE	POINT OF PILE ELEVATION AS DRIVEN	ESTIMATED POINT OF PILE ELEVATION	HIGHEST ALLOWABLE POINT OF PILE ELEVATION	* REQUIRED NOMINAL AXIAL RESISTANCE		DATA OBTAINED FROM DYNAMIC PILE TESTING**								ACTUAL AT EOD		ACTUAL AT BOR	
									NOMINAL TEST PILE RESISTANCE (BASED ON DYNAMIC TESTING)		REQUIRED AT END OF DRIVING (EOD)		REQUIRED AT BEGINNING OF RESTRIKE (BOR)		BLOW COUNT N	HAMMER STROKE H				
									R _n		Blow Count N	Hammer Stroke H	BLOW COUNT N	HAMMER STROKE H			BLOW COUNT N	HAMMER STROKE H		
									KIPS	TONS	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET	BLOWS PER INCH	FEET
INTEGRAL END BENT 2																				
34		375.49			265.00	281.00	1180	590												
35		375.49			265.00	281.00	1180	590												
36		375.49			265.00	281.00	1180	590												
37		375.49			265.00	281.00	1180	590												
38		375.49			265.00	281.00	1180	590												
39		375.49			265.00	281.00	1180	590												
40		375.49			265.00	281.00	1180	590												
41		375.49			265.00	281.00	1180	590												
42		375.49			265.00	281.00	1180	590												

INTEGRAL END BENT 2

EXCLUSIONARY ZONE PILE TIP ELEVATIONS 307.00 TO 281.00.
PILE TIPS CANNOT BE TIPPED IN THESE ZONES DURING CONSTRUCTION.

* NEGLECT RESISTANCE IN EMBANKMENT MATERIAL

**AFTER EVALUATING THE RESULTS OF DYNAMIC PILE TESTING, THE GEOTECHNICAL BRANCH WILL PROVIDE THE DATA TO FILL IN THESE COLUMNS.

REQUIRED CONSTRUCTION SEQUENCE AT INT. END BENT 2

- NOT USED.
- CONSTRUCT THE GRANULAR PILE CORE CONCURRENTLY WITH THE SURROUNDING GRANULAR EMBANKMENT TO ELEVATION 363.0 FEET.
- PERFORM PRE-PROBING.
- IF DIRECTED BY THE ENGINEER, INSTALL PERMANENT CASING AND PERFORM PRE-DRILLING. REFER TO "PRE-DRILLING FOR PILES" ON SHEET S13 FOR ADDITIONAL INFORMATION.
- INSTALL H-PILE FOUNDATIONS.
- INSTALL LOW FRICTION PLASTIC JACKETS (POLYETHYLENE SHEETS OR SLEEVES) AROUND THE PILES OR APPLY LOW FRICTION COATING TO THE PILES. INSTALL THE JACKETS OR APPLY THE COATING PER THE MANUFACTURER'S RECOMMENDATIONS FROM THE BOTTOM OF CAP ELEVATION DOWN TO ELEVATION 363.0 FEET.
 - PLASTIC PILE JACKETS SHALL CONSIST OF "YELLOW JACKETS" AS MANUFACTURED BY FOUNDATION TECHNOLOGIES, INC. OR AN APPROVED EQUAL. PROVIDE PILE JACKETS OR SLEEVES WHICH HAVE BEEN CUSTOM FABRICATED BY THE SUPPLIER FOR THE SPECIFIED PILE SECTION. (PROVIDE ADEQUATE LEAD TIME TO THE SUPPLIER TO ENSURE THAT THE JACKETS OR SLEEVES CAN BE FABRICATED.)
 - LOW FRICTION PILE COATING SHALL CONSIST OF "SLICKCOAT" AS MANUFACTURED BY FOUNDATION TECHNOLOGIES, INC. OR AN APPROVED EQUAL.
 - BITUMEN COATINGS WILL NOT BE PERMITTED.
 - THE LOW FRICTION PILE SLEEVES OR LOW FRICTION PILE COATING MATERIAL AND INSTALLATION SHALL BE INCIDENTAL TO THE UNIT PRICE FOR THE HP18X157 PILES.
- CONSTRUCT THE GRANULAR PILE CORE AROUND THE PILES CONCURRENTLY WITH CONSTRUCTING THE SURROUNDING EMBANKMENT. EXERCISE CARE TO AVOID DAMAGE TO THE PILES, THE PLASTIC JACKETS, OR THE LOW FRICTION COATING.

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\CWETHINGTON\DOT77637\S26819_012.DGN

USER: CWethington
DATE PLOTTED: February 5, 2013

E-SHEET NAME: S26819 012

MicroStation v8.11.9.292

△ REVISD TABLE, REMOVE NOTE 1 REVISION DATE: AUGUST 31, 2012 DESIGNED BY: DMB CHECKED BY: MJD DETAILED BY: CEW DMB		1/31/13 DATE
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY		
MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
PILE RECORD		
ITEM NUMBER 01-180.75	PREPARED BY Baker	SHEET NO. S12 DRAWING NO. 26819



MICHAEL BAKER JR., INC.
9750 ORMSBY STATION ROAD
SUITE 210
LOUISVILLE, KY 40223

PILE RECORD FOR FRICTION PILES WITH DYNAMIC TESTING

△ REVISED 2-5-13

PILE NO.	PROJECT HAMMER NUMBER	PILE CUT-OFF ELEVATION	PILE LENGTH IN PLACE	POINT OF PILE ELEVATION AS DRIVEN	ESTIMATED POINT OF PILE ELEVATION	HIGHEST ALLOWABLE POINT OF PILE ELEVATION	* REQUIRED NOMINAL AXIAL RESISTANCE		DATA OBTAINED FROM DYNAMIC PILE TESTING**								ACTUAL AT EOD		ACTUAL AT BOR	
									NOMINAL TEST PILE RESISTANCE (BASED ON DYNAMIC TESTING)		REQUIRED AT END OF DRIVING (EOD)		REQUIRED AT BEGINNING OF RESTRIKE (BOR)		BLOW COUNT N	HAMMER STROKE H				
									R _n	ESTIMATED POINT OF PILE ELEVATION (BASED ON DYNAMIC TESTING)	Blow Count N	Hammer Stroke H	BLOW COUNT N	HAMMER STROKE H			BLOW COUNT N	HAMMER STROKE H		
															KIPS	TONS			FEET	MIN.
INTEGRAL END BENT 2																				
34		375.49			265.00	281.00	1180	590												
35		375.49			265.00	281.00	1180	590												
36		375.49			265.00	281.00	1180	590												
37		375.49			265.00	281.00	1180	590												
38		375.49			265.00	281.00	1180	590												
39		375.49			265.00	281.00	1180	590												
40		375.49			265.00	281.00	1180	590												
41		375.49			265.00	281.00	1180	590												
42		375.49			265.00	281.00	1180	590												

INTEGRAL END BENT 2

EXCLUSIONARY ZONE PILE TIP ELEVATIONS 307.00 TO 281.00. PILE TIPS CANNOT BE TIPPED IN THESE ZONES DURING CONSTRUCTION.



* NEGLECT RESISTANCE IN EMBANKMENT MATERIAL

**AFTER EVALUATING THE RESULTS OF DYNAMIC PILE TESTING, THE GEOTECHNICAL BRANCH WILL PROVIDE THE DATA TO FILL IN THESE COLUMNS.

REQUIRED CONSTRUCTION SEQUENCE AT INT. END BENT 2



1. NOT USED.

- CONSTRUCT THE GRANULAR PILE CORE CONCURRENTLY WITH THE SURROUNDING GRANULAR EMBANKMENT TO ELEVATION 363.0 FEET.
- PERFORM PRE-PROBING.
- IF DIRECTED BY THE ENGINEER, INSTALL PERMANENT CASING AND PERFORM PRE-DRILLING. REFER TO "PRE-DRILLING FOR PILES" ON SHEET S13 FOR ADDITIONAL INFORMATION.
- INSTALL H-PILE FOUNDATIONS.
- INSTALL LOW FRICTION PLASTIC JACKETS (POLYETHYLENE SHEETS OR SLEEVES) AROUND THE PILES OR APPLY LOW FRICTION COATING TO THE PILES. INSTALL THE JACKETS OR APPLY THE COATING PER THE MANUFACTURER'S RECOMMENDATIONS FROM THE BOTTOM OF CAP ELEVATION DOWN TO ELEVATION 363.0 FEET.
 - PLASTIC PILE JACKETS SHALL CONSIST OF "YELLOW JACKETS" AS MANUFACTURED BY FOUNDATION TECHNOLOGIES, INC. OR AN APPROVED EQUAL. PROVIDE PILE JACKETS OR SLEEVES WHICH HAVE BEEN CUSTOM FABRICATED BY THE SUPPLIER FOR THE SPECIFIED PILE SECTION. (PROVIDE ADEQUATE LEAD TIME TO THE SUPPLIER TO ENSURE THAT THE JACKETS OR SLEEVES CAN BE FABRICATED.)
 - LOW FRICTION PILE COATING SHALL CONSIST OF "SLICKCOAT" AS MANUFACTURED BY FOUNDATION TECHNOLOGIES, INC. OR AN APPROVED EQUAL.
 - BITUMEN COATINGS WILL NOT BE PERMITTED.
 - THE LOW FRICTION PILE SLEEVES OR LOW FRICTION PILE COATING MATERIAL AND INSTALLATION SHALL BE INCIDENTAL TO THE UNIT PRICE FOR THE HP18X157 PILES.
- CONSTRUCT THE GRANULAR PILE CORE AROUND THE PILES CONCURRENTLY WITH CONSTRUCTING THE SURROUNDING EMBANKMENT. EXERCISE CARE TO AVOID DAMAGE TO THE PILES, THE PLASTIC JACKETS, OR THE LOW FRICTION COATING.

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\CWETHINGTON\DOT77637\S26819_012.DGN

USER: CWethington
DATE PLOTTED: February 5, 2013

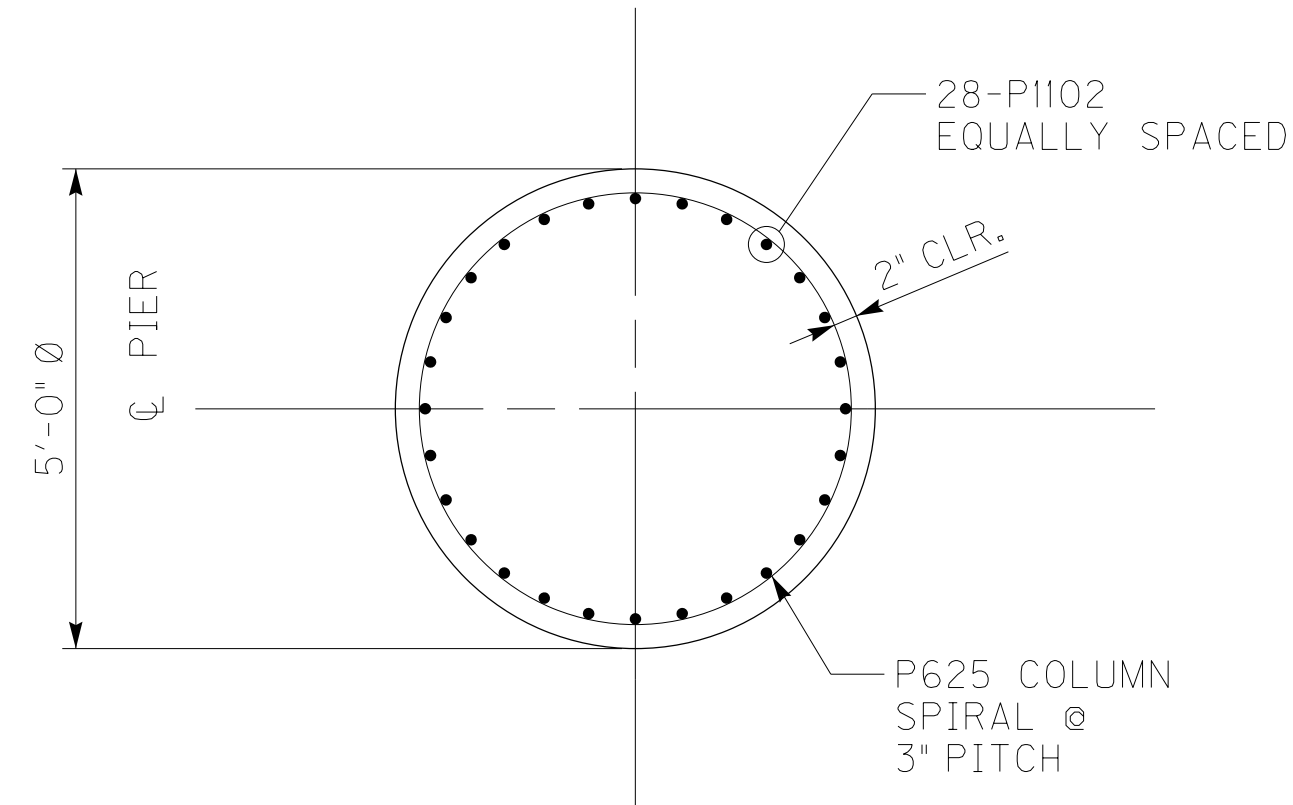
E-SHEET NAME: S26819_012

MicroStation v8.11.9.292

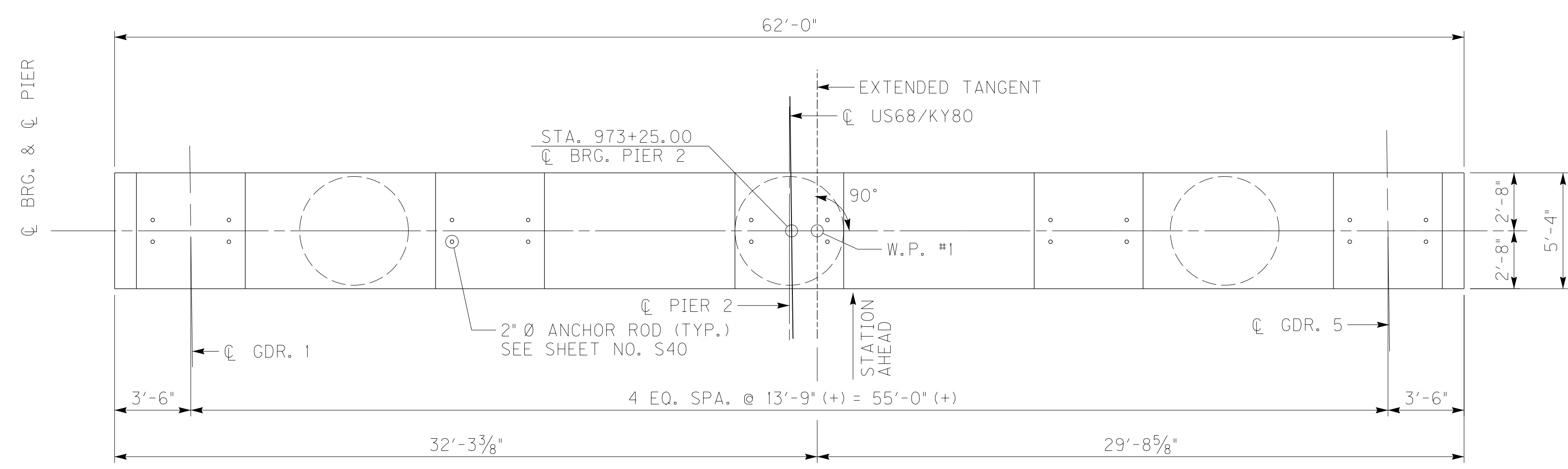
△ REVISED TABLE, REMOVE NOTE 1		1/31/13
REVISION		DATE
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: DMB	MJD	
DETAILED BY: CEW	DMB	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
PILE RECORD		
ITEM NUMBER	PREPARED BY	SHEET NO.
01-180.75	Baker	S12
	MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223	DRAWING NO. 26819



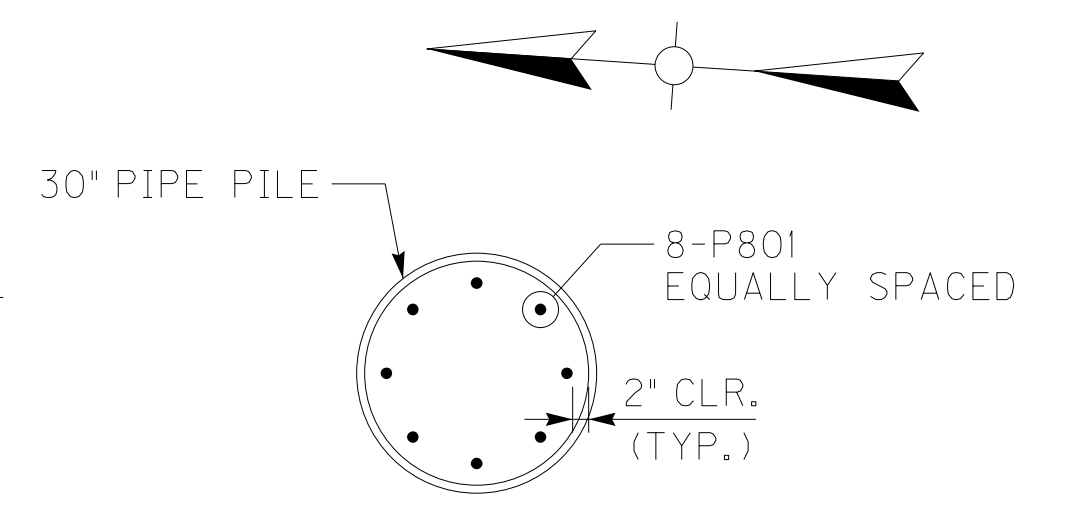
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 USER: MARYJO.DWYER
 DATE PLOTTED: January 31, 2013
 E-SHEET NAME: S26819_022
 MicroStation v8.11.7.443



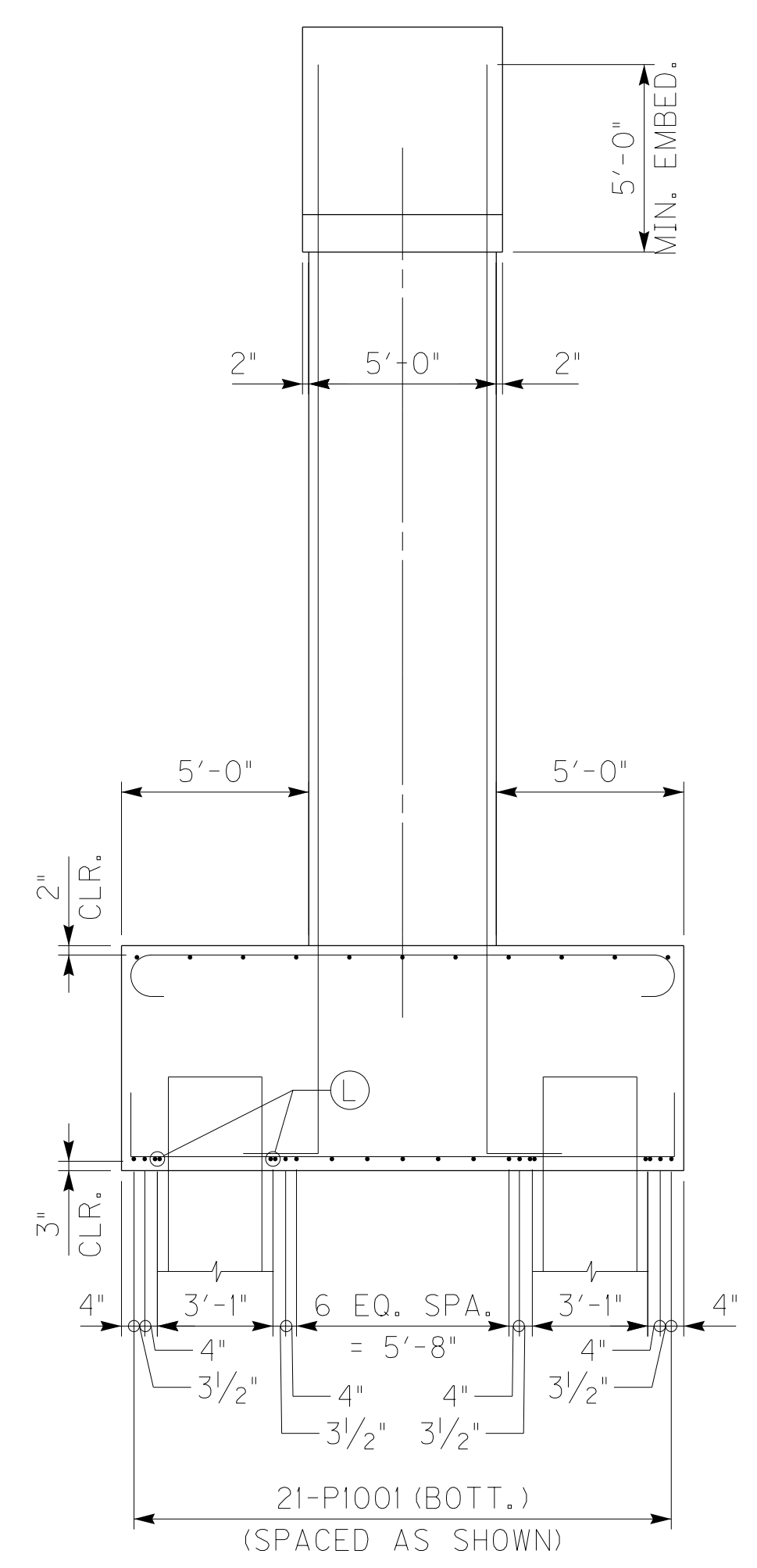
SECTION A-A



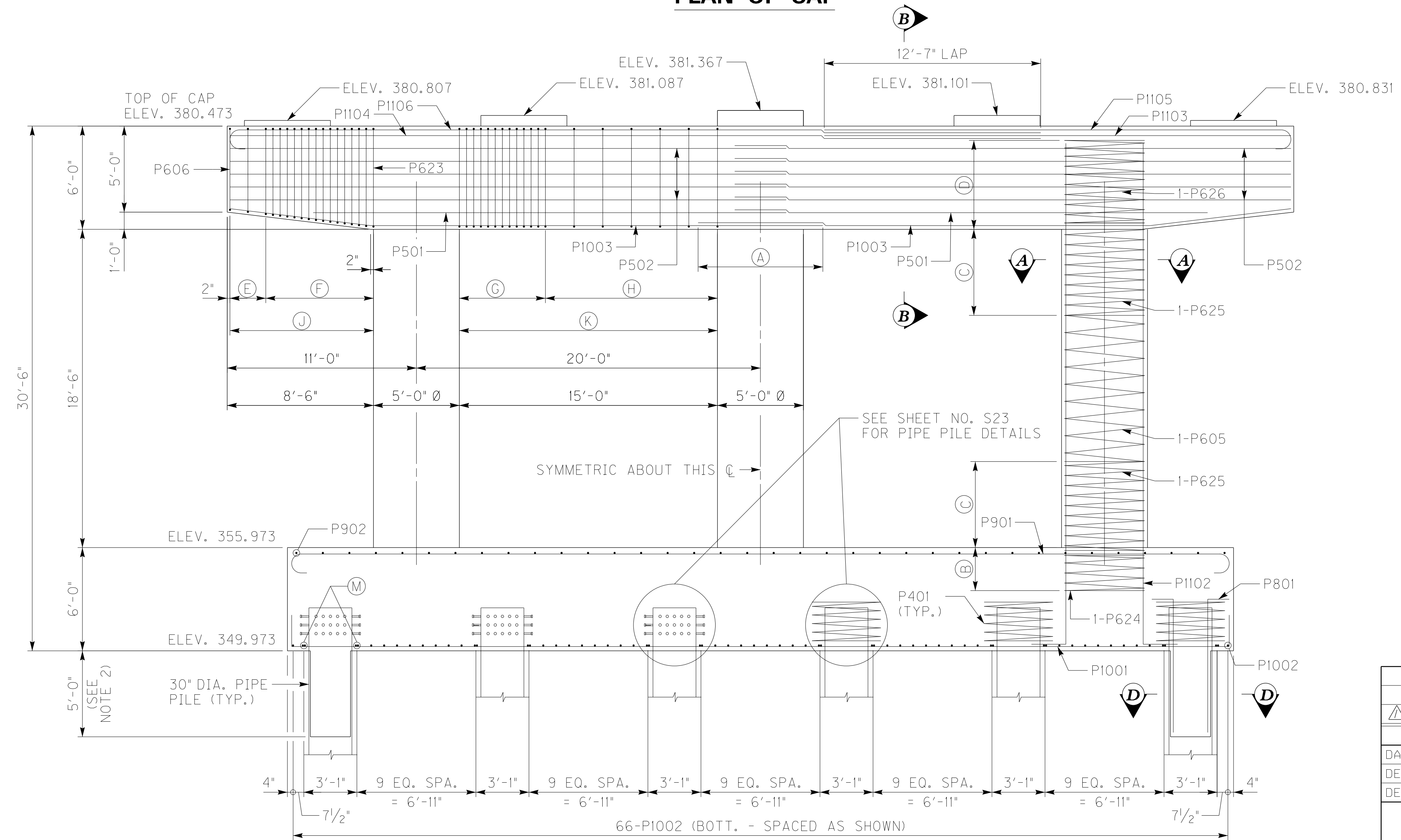
PLAN OF CAP



SECTION D-D
(TYPICAL EACH CORNER PILE)



END ELEVATION



ELEVATION

NOTES

- SEE SHEET NO. S23 FOR SECTION B-B.
- ADD CONCRETE PIPE PILE PLUG AND ADDITIONAL REINFORCING AT THE FOUR CORNER PIPE PILE LOCATIONS. CONCRETE IN PIPE PILES TO BE PLACED MONOLITHIC WITH THE FOOTING.

LEGEND

- (A) MIN. LAP REQUIREMENTS:
P1003 BARS: 7'-4"
P501 & P502 BARS: 3'-0"
- (B) 2'-6" MIN. SPIRAL EMBEDMENT
- (C) 5'-0" PLASTIC HINGE ZONE
(SEE GENERAL NOTES ABOUT SPIRAL SPLICE RESTRICTIONS IN THIS ZONE)
- (D) 5'-0" MIN. SPIRAL EMBEDMENT
- (E) 2 SPA. @ 1'-0 1/2" = 2'-1"
- (F) 15 SPA. @ 5" = 6'-3"
- (G) 12 SPA. @ 5" = 5'-0"
- (H) 6 SPA. @ 1'-8" = 10'-0"
- (J) 2-P606 THRU 2-P623
(SPACED IN PAIRS)
- (K) 38-P623 (SPACED IN PAIRS)
- (L) BUNDLE 2-P1001 BARS
(TYP. BOTH SIDES OF EACH PILE)
- (M) BUNDLE 2-P1002 BARS
(TYP. BOTH SIDES OF EACH PILE)

REVISION	DATE
REVISED COLUMN REINFORCEMENT	01/31/13

DATE: AUGUST 31, 2012
 DESIGNED BY: MJD
 CHECKED BY: JCS
 DETAILED BY: MJD

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
MARSHALL / TRIGG

ROUTE **US68** CROSSING **KENTUCKY LAKE LAGOON BRIDGE**

PIER 2



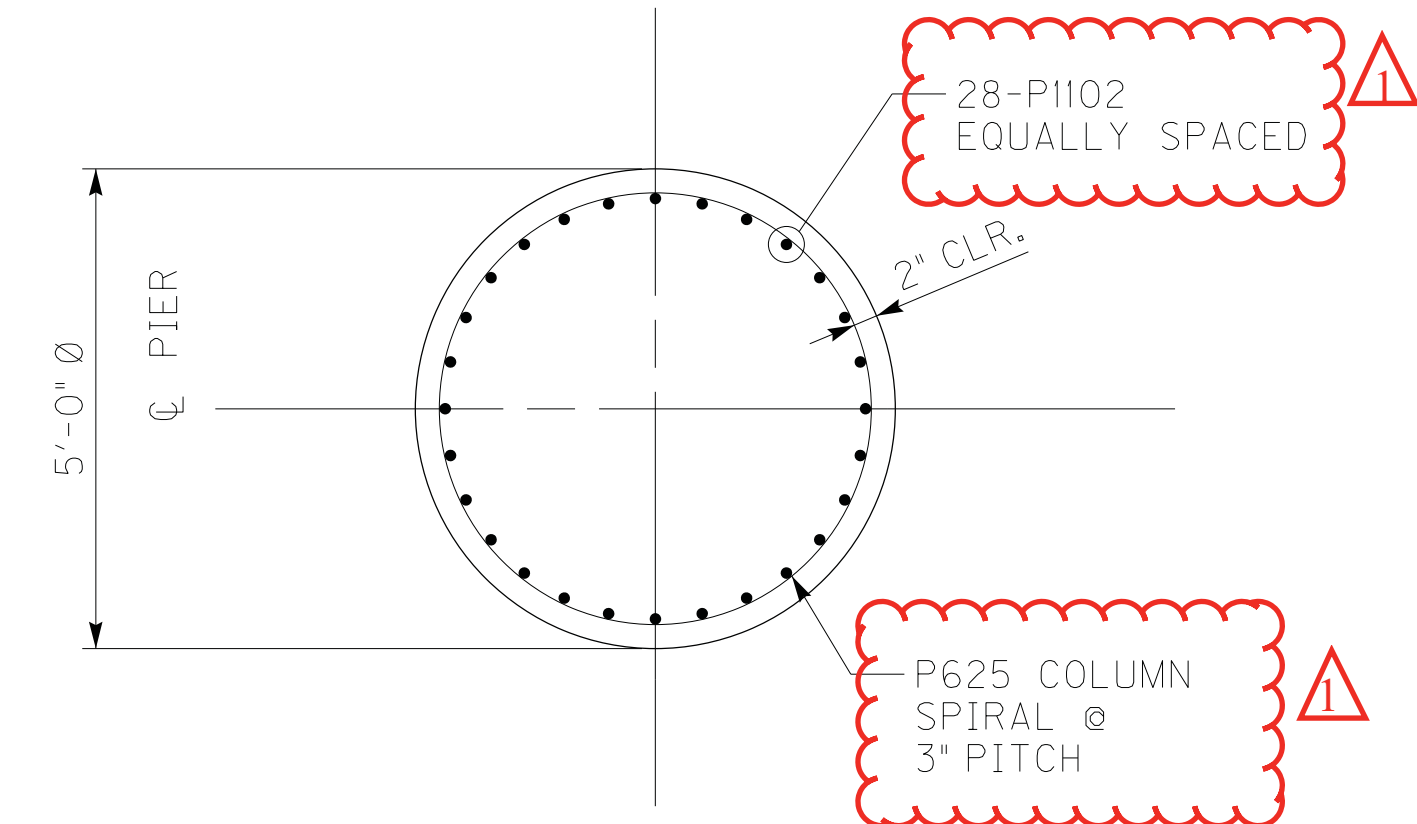
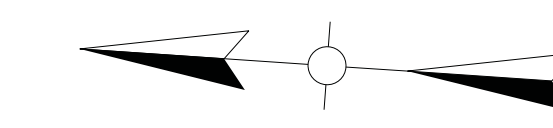
ITEM NUMBER
01-180.75



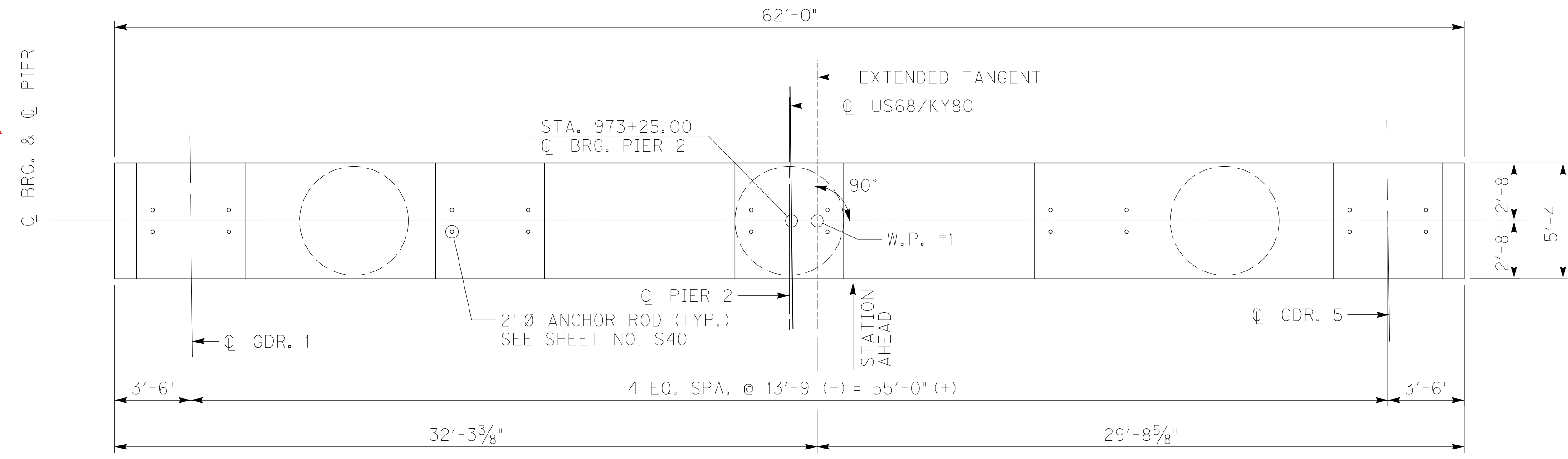
PREPARED BY
MICHAEL BAKER JR. INC.
 9750 ORMSBY STATION ROAD
 SUITE 210
 LOUISVILLE, KY 40223

SHEET NO.
S22
 DRAWING NO.
26819

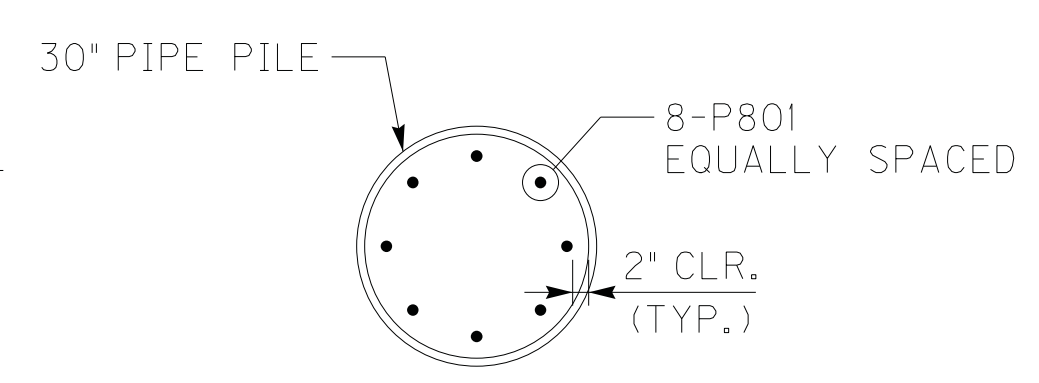
REVISED 2-5-13



SECTION A-A



PLAN OF CAP



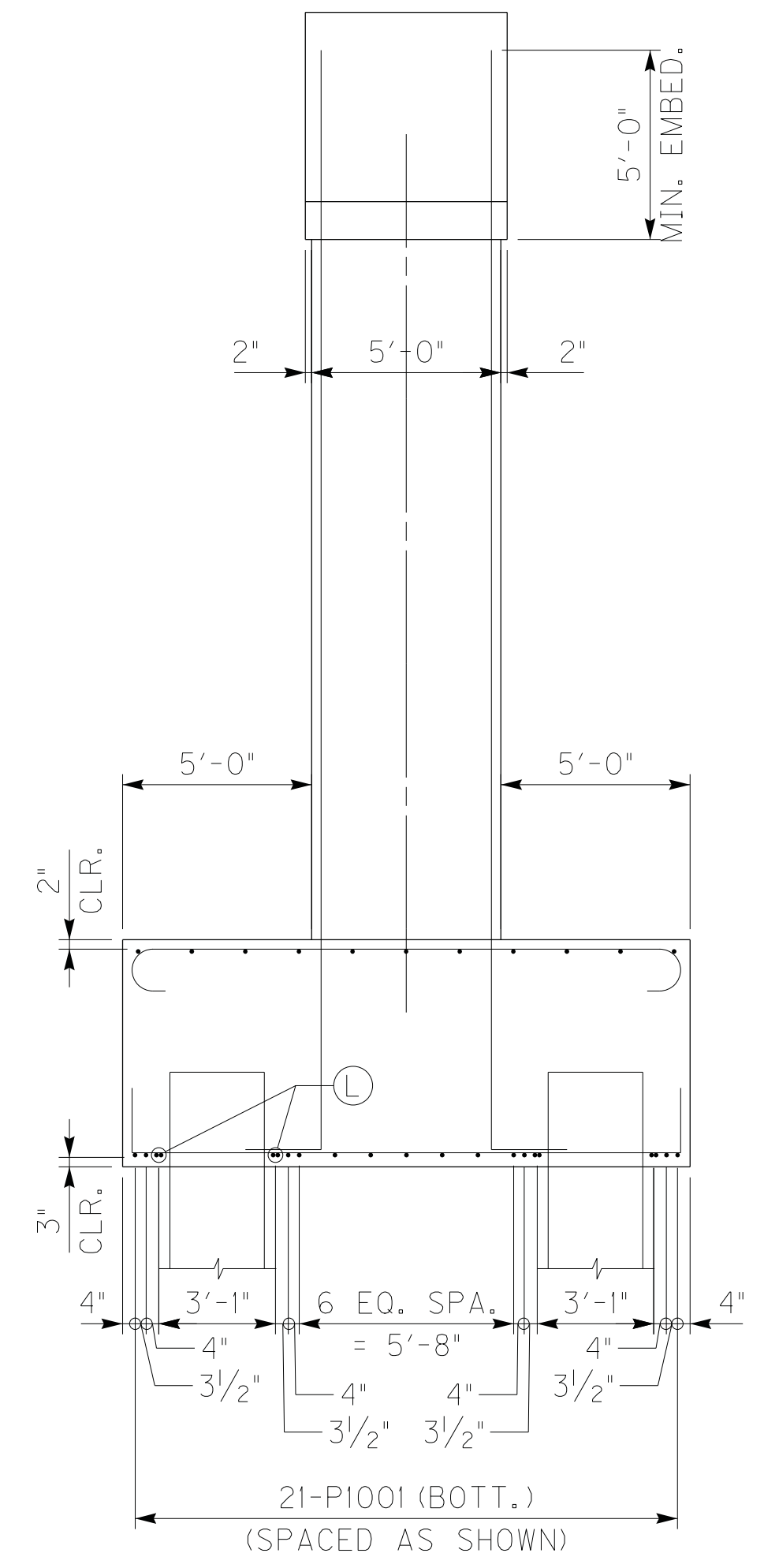
SECTION D-D
(TYPICAL EACH CORNER PILE)

NOTES

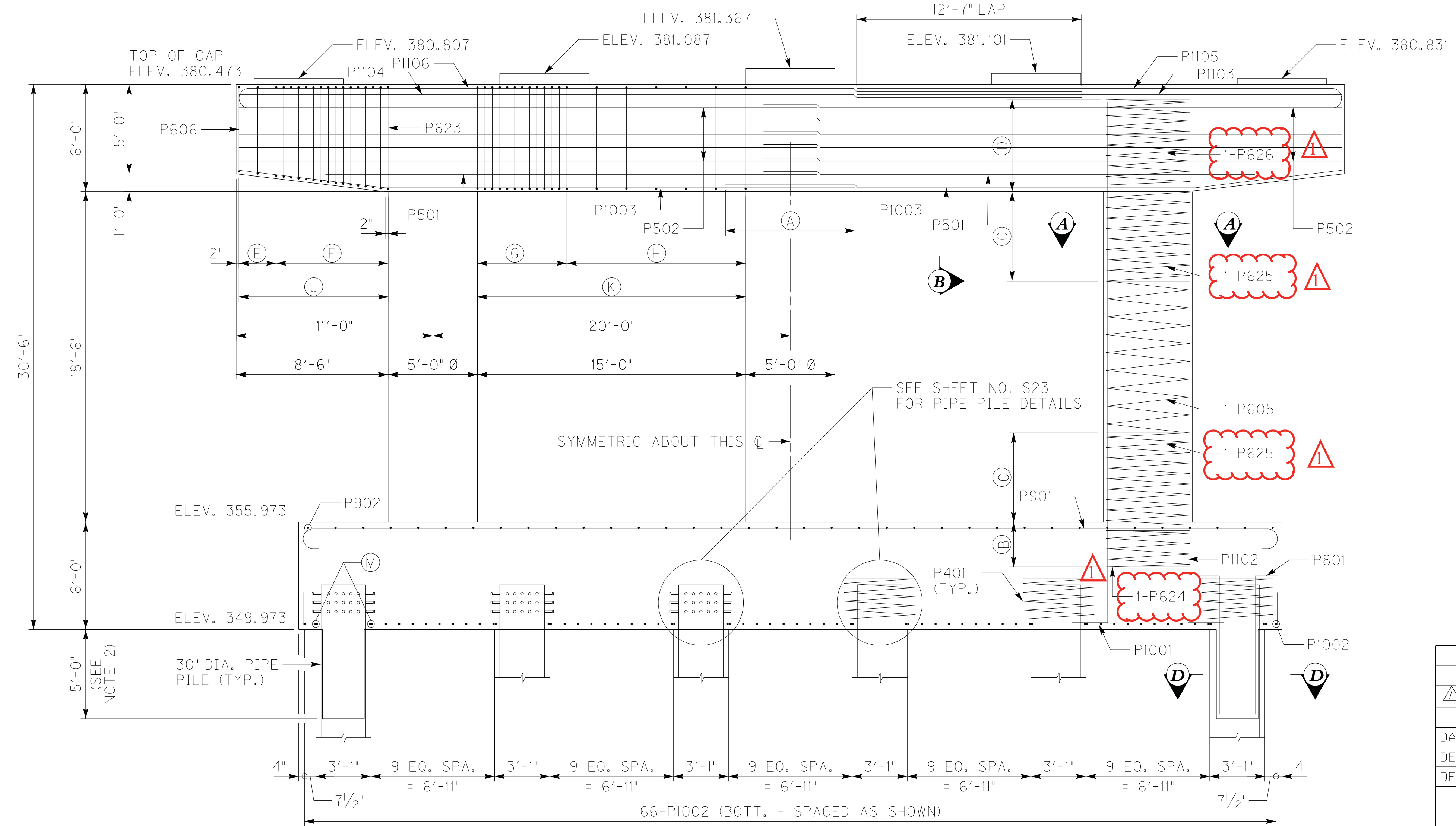
- SEE SHEET NO. S23 FOR SECTION B-B.
- ADD CONCRETE PIPE PILE PLUG AND ADDITIONAL REINFORCING AT THE FOUR CORNER PIPE PILE LOCATIONS. CONCRETE IN PIPE PILES TO BE PLACED MONOLITHIC WITH THE FOOTING.

LEGEND

- (A) MIN. LAP REQUIREMENTS:
P1003 BARS: 7'-4"
P501 & P502 BARS: 3'-0"
- (B) 2'-6" MIN. SPIRAL EMBEDMENT
- (C) 5'-0" PLASTIC HINGE ZONE
(SEE GENERAL NOTES ABOUT SPIRAL
SPlice RESTRICTIONS IN THIS
ZONE)
- (D) 5'-0" MIN. SPIRAL EMBEDMENT
- (E) 2 SPA. @ 1'-0 1/2" = 2'-1"
- (F) 15 SPA. @ 5" = 6'-3"
- (G) 12 SPA. @ 5" = 5'-0"
- (H) 6 SPA. @ 1'-8" = 10'-0"
- (J) 2-P606 THRU 2-P623
(SPACED IN PAIRS)
- (K) 38-P623 (SPACED IN PAIRS)
- (L) BUNDLE 2-P1001 BARS
(TYP. BOTH SIDES OF EACH PILE)
- (M) BUNDLE 2-P1002 BARS
(TYP. BOTH SIDES OF EACH PILE)



END ELEVATION



ELEVATION

FILE NAME: C:\PW81-LOCAL\BAKER_PROJECTS\MARYJO.DWYER\00177637\S26819_022.DGN
 USER: MARYJO.DWYER
 DATE PLOTTED: January 31, 2013
 E-SHEET NAME: S26819_022
 MicroStation v8.11.7.443



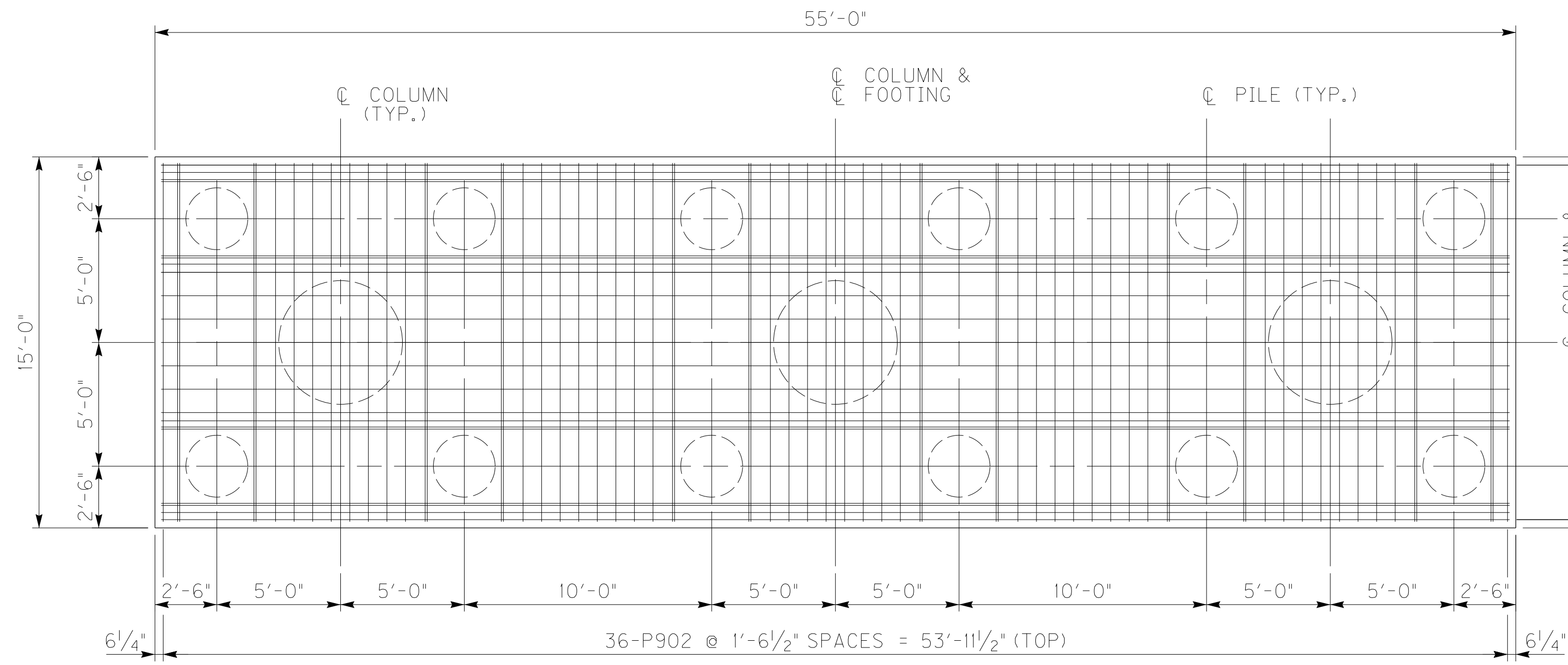
ITEM NUMBER	01-180.75
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REVISED COLUMN REINFORCEMENT		01/31/13
REVISION		DATE
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: MJD	JCS	
DETAILED BY: MJD	JCS	

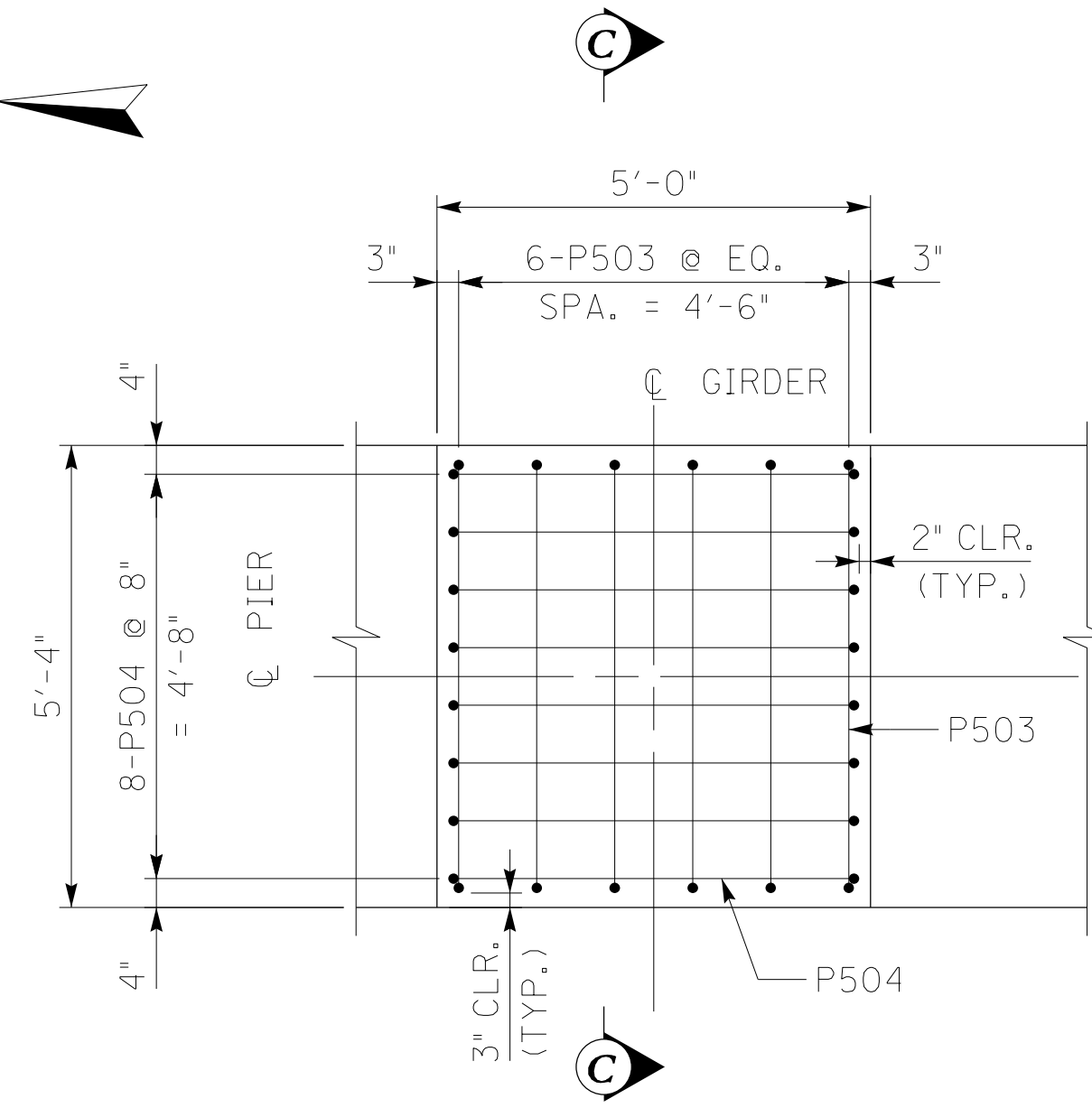
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY
MARSHALL / TRIGG
 ROUTE
US68 CROSSING
KENTUCKY LAKE LAGOON BRIDGE
PIER 2

PREPARED BY	MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223	SHEET NO. S22
		DRAWING NO. 26819

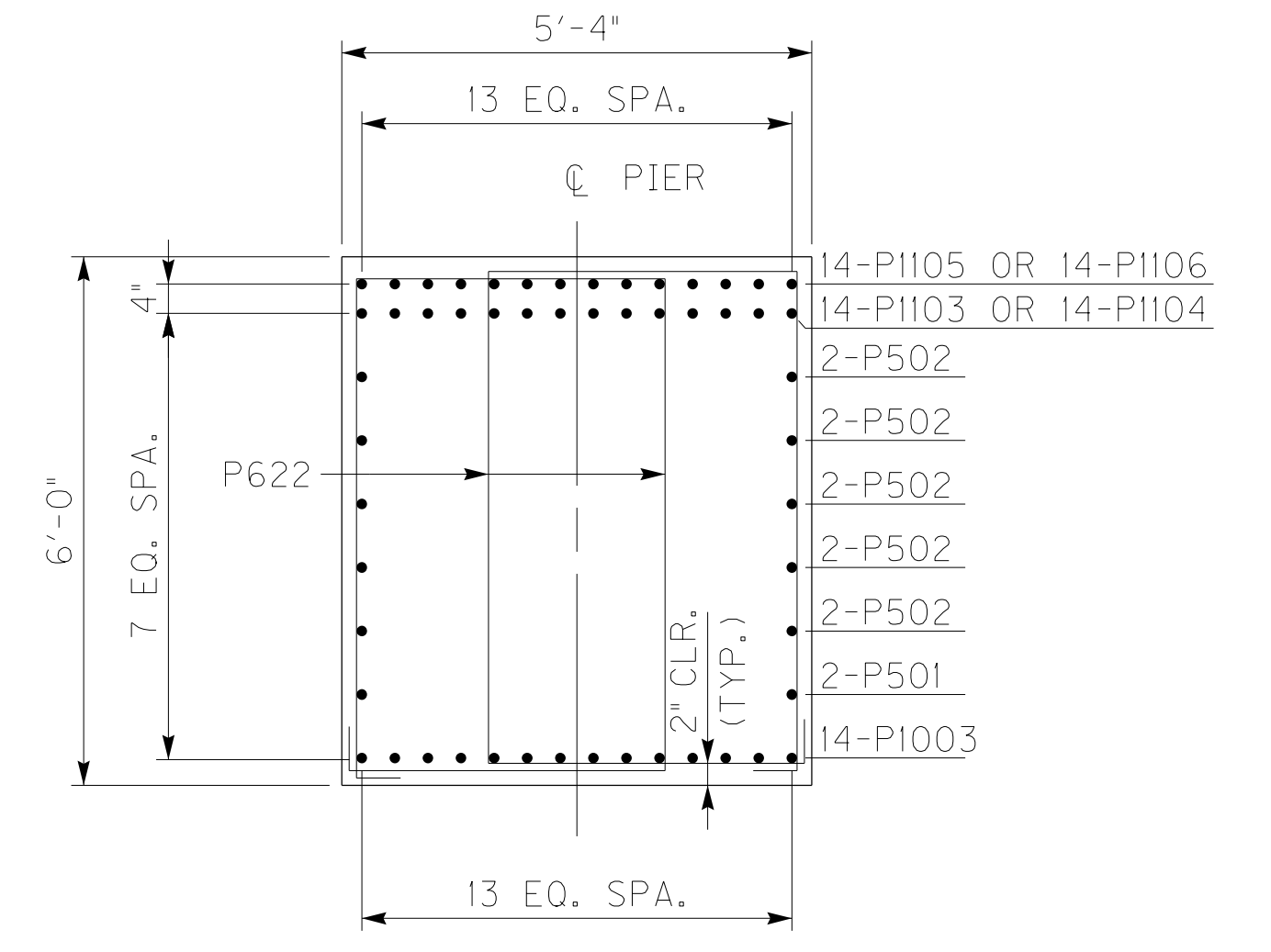
FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJ.D. DWYER\00177637\S26819_023.DGN
 USER: MARYJ.D. DWYER
 DATE PLOTTED: January 31, 2013
 E-SHEET NAME: S26819_023
 MicroStation v8.11.7.443



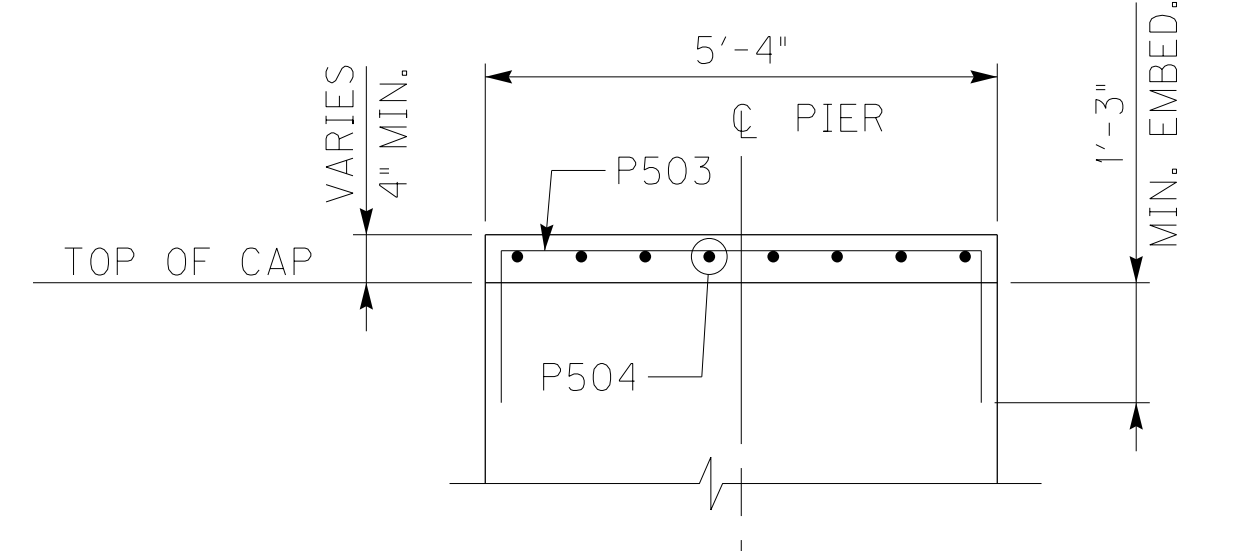
PLAN OF FOOTING



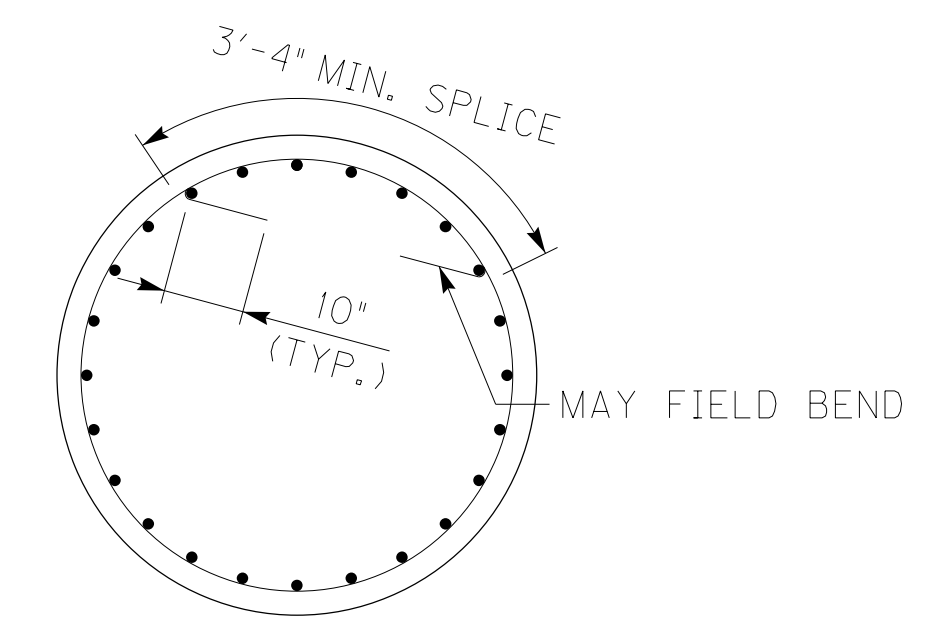
TYPICAL PEDESTAL PLAN



SECTION B-B

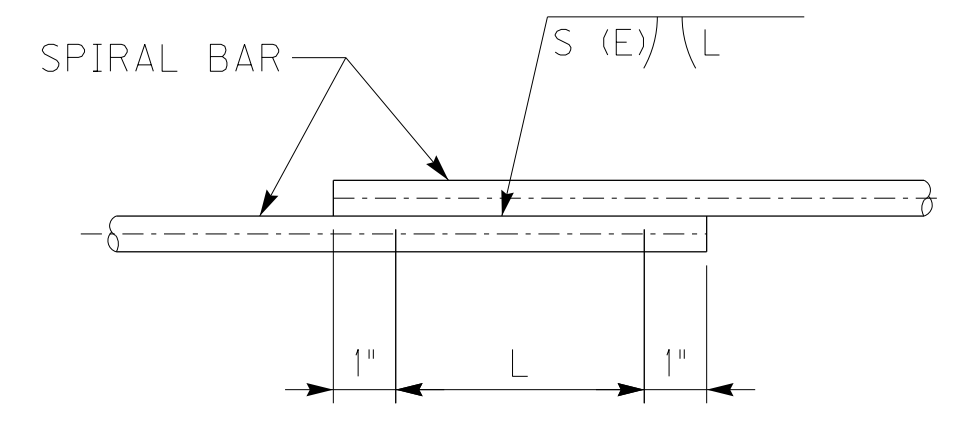


SECTION C-C



OPTIONAL SPIRAL LAP SPLICE DETAIL

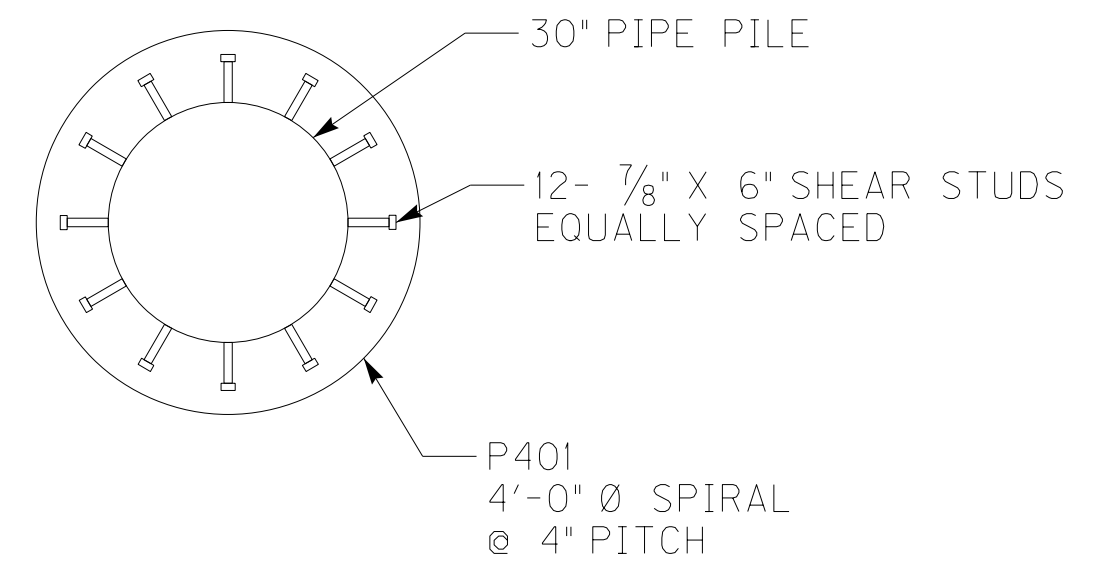
(MAY BE USED OUTSIDE PLASTIC HINGE REGIONS)



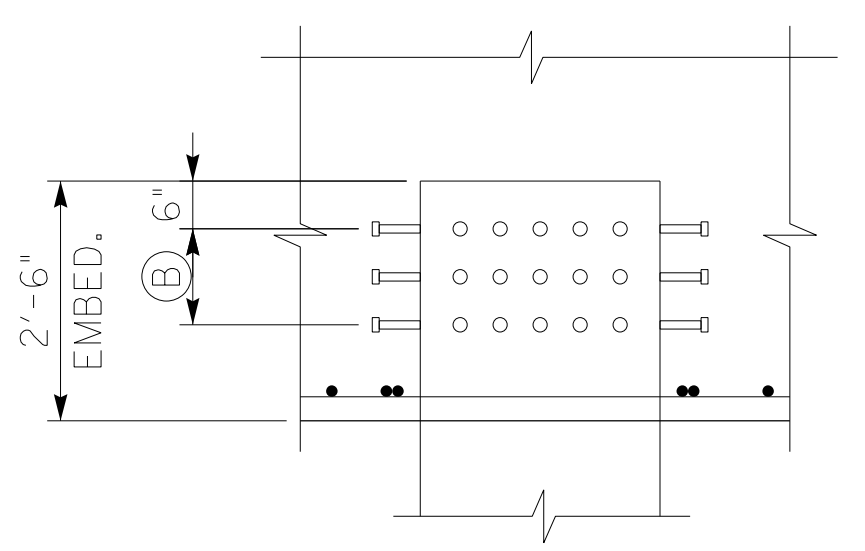
SPIRAL WELDED LAP SPLICE DETAIL

(TO BE USED IN PLASTIC HINGE REGIONS)

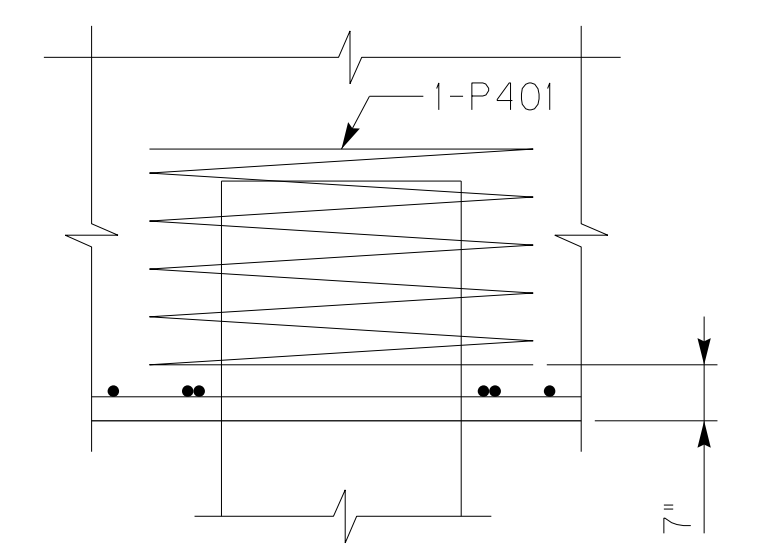
WELD DIMENSIONS (IN.)			
SPIRAL BAR SIZE	S	E	L
#4	1/4	1/8	4
#6	3/8	3/16	6



PIPE PILE TYPICAL SECTION

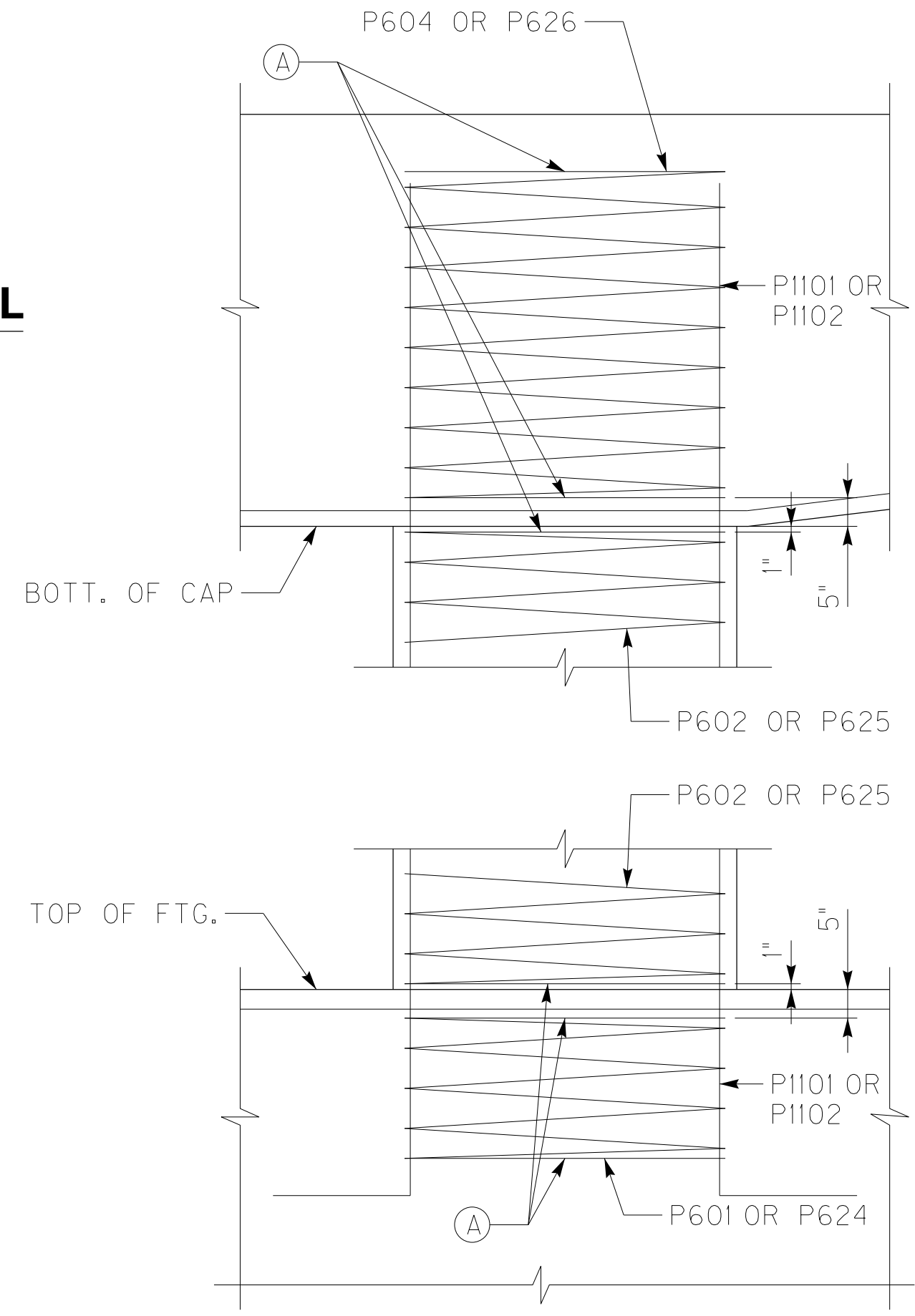


PIPE PILE STUD DETAIL



PIPE PILE SPIRAL DETAIL

(TYPICAL EACH PILE)
 (SEE SHEET NO. S22 FOR ADDITIONAL REINFORCEMENT AT CORNER PIPE PILES ON PIER 2)



DETAIL AT TOP & BOTT. OF COLUMN

LEGEND

- (A) AT SPIRAL DISCONTINUITIES, THE SPIRAL SHALL TERMINATE WITH ONE AND A HALF EXTRA TURNS.
- (B) 3 ROWS OF 12 - 7/8" X 6" SHEAR STUDS SPACED @ 6" = 1'-0"

NOTES

1. INSTALL SHEAR STUDS AFTER FINAL PILE CUTOFF ELEVATION IS MADE.
2. INCLUDE COST TO FURNISH AND INSTALL SHEAR STUDS TO THE PIPE PILE IN THE BID ITEM SHEAR CONNECTORS.
3. SHEET NO. S9 FOR FOOTING CORNER LOCATIONS.

REVISION	DATE
REVISD PIER 2 SPIRAL BAR MARKS	01/31/13

DATE: AUGUST 31, 2012
 DESIGNED BY: MJD
 CHECKED BY: JCS
 DETAILED BY: MJD

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

MARSHALL / TRIGG

ROUTE **US68** CROSSING **KENTUCKY LAKE LAGOON BRIDGE**

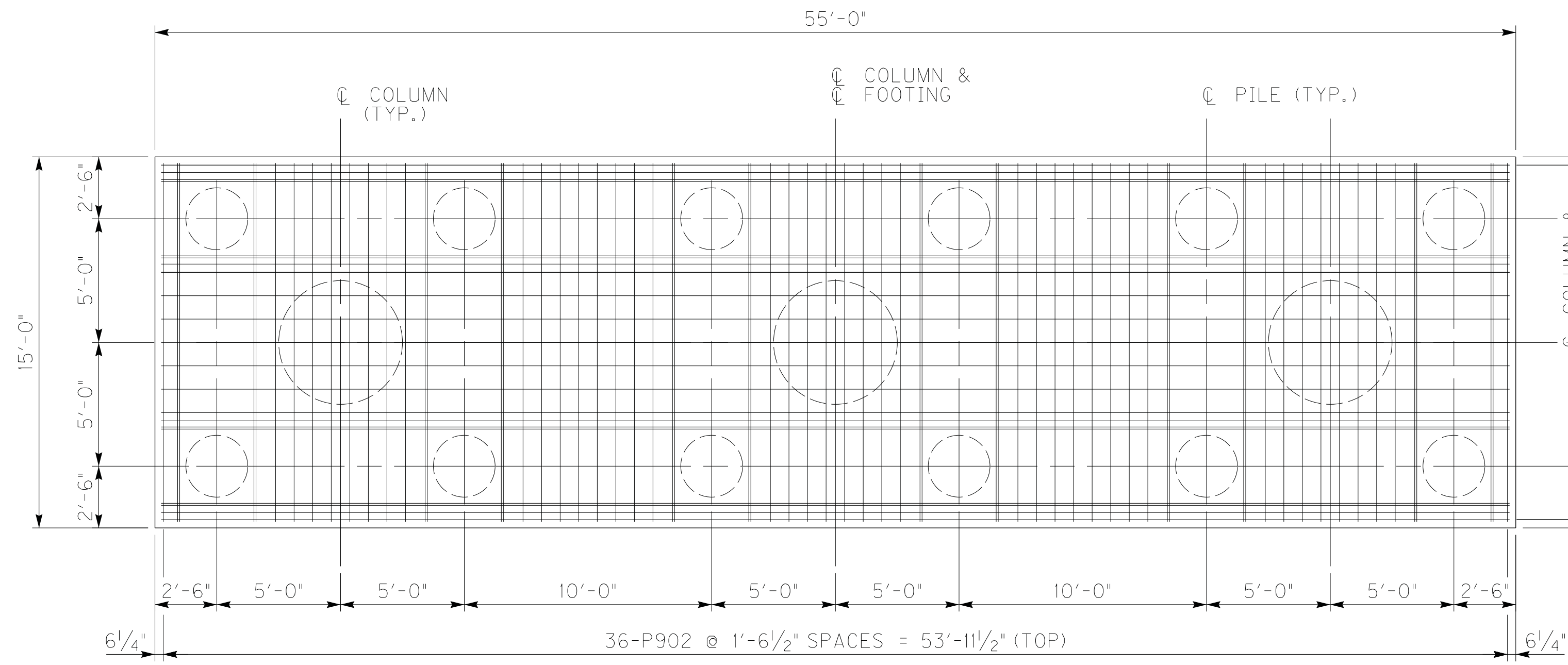
PIER DETAILS



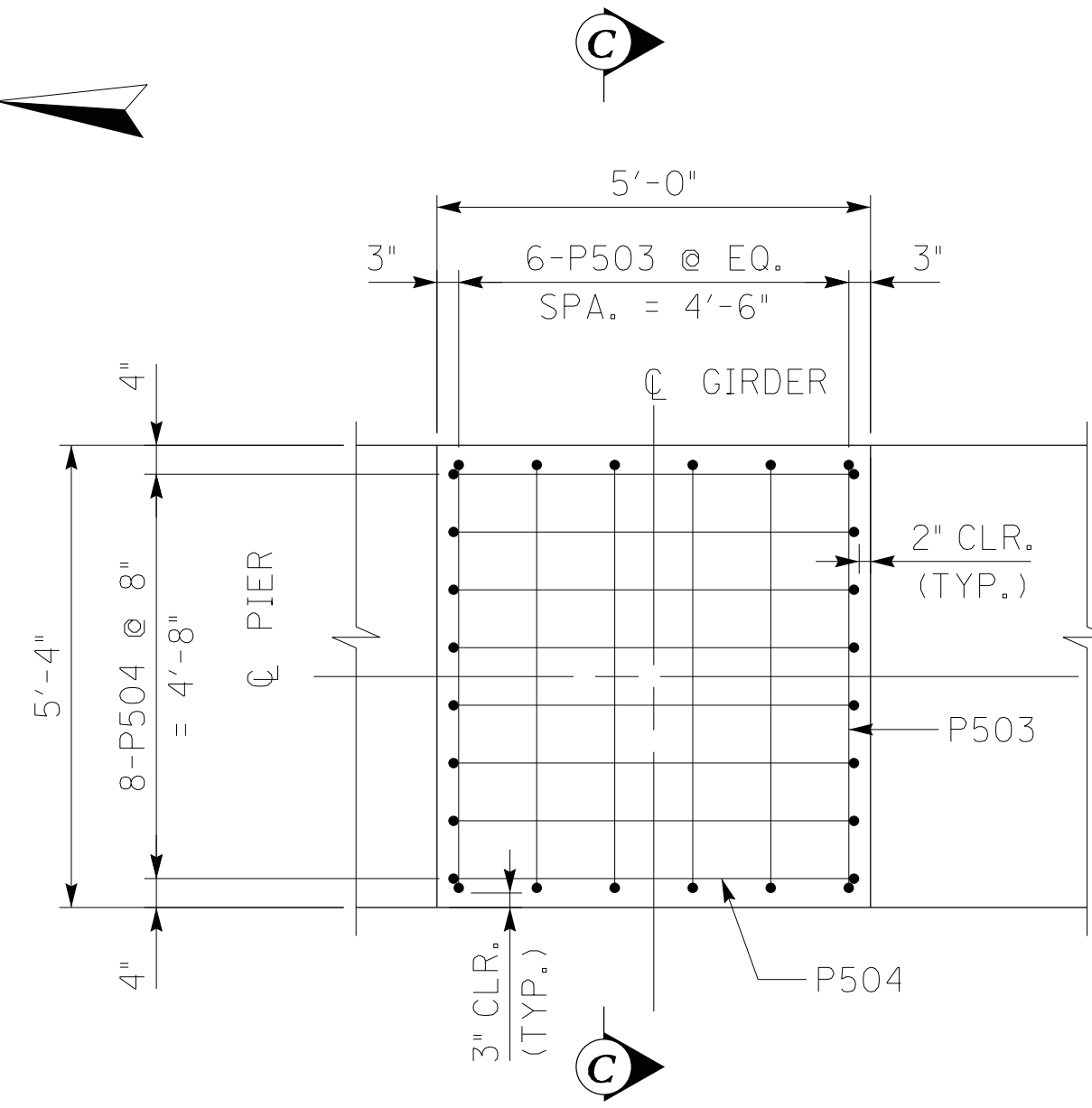
ITEM NUMBER
01-180.75

PREPARED BY
Baker
 MICHAEL BAKER JR., INC.
 9750 ORMSBY STATION ROAD
 SUITE 210
 LOUISVILLE, KY 40223

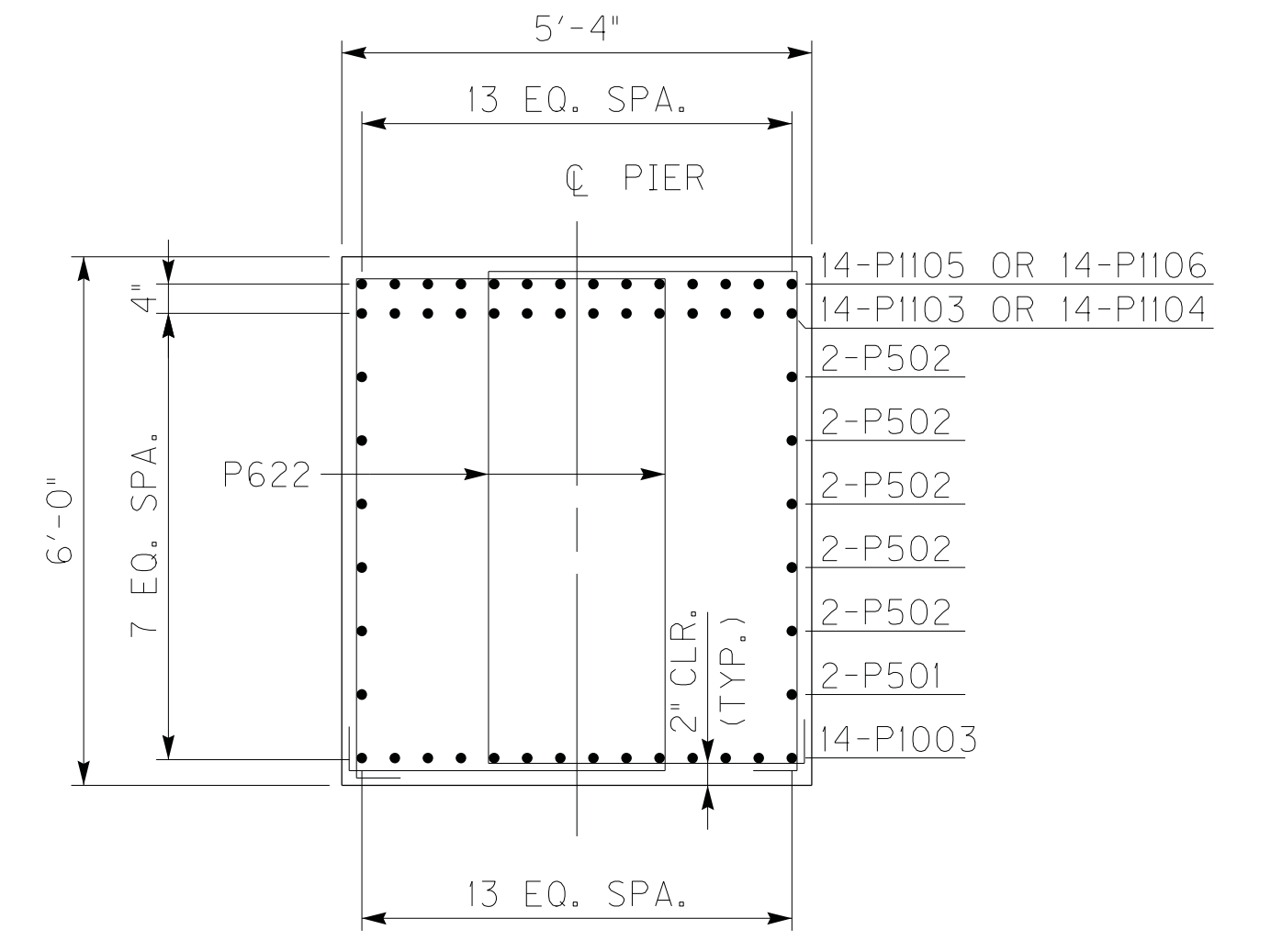
SHEET NO.
S23
 DRAWING NO.
26819



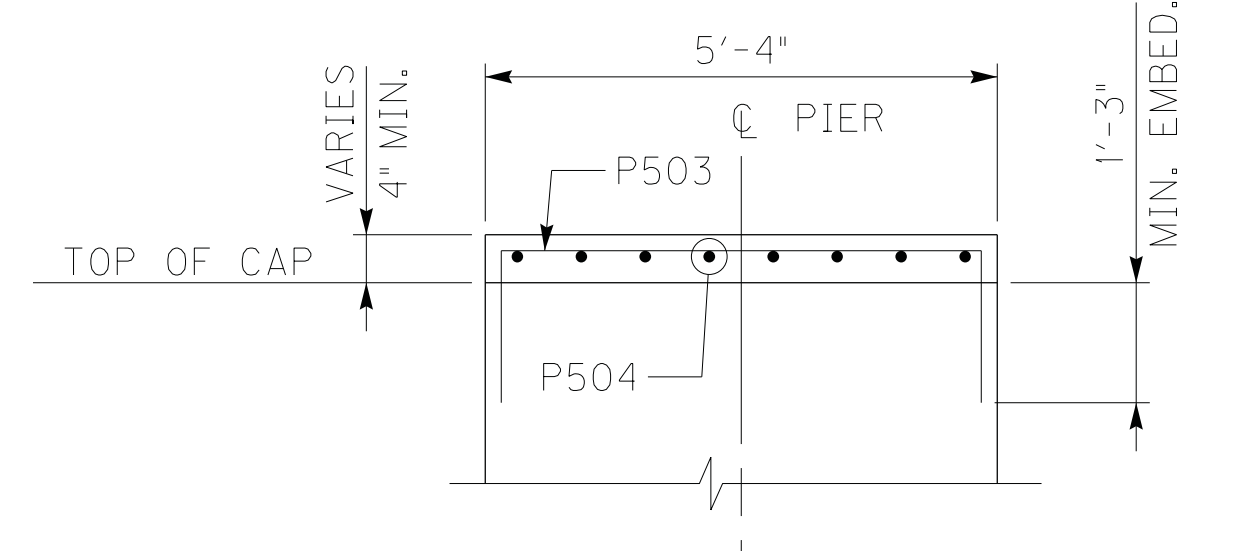
PLAN OF FOOTING



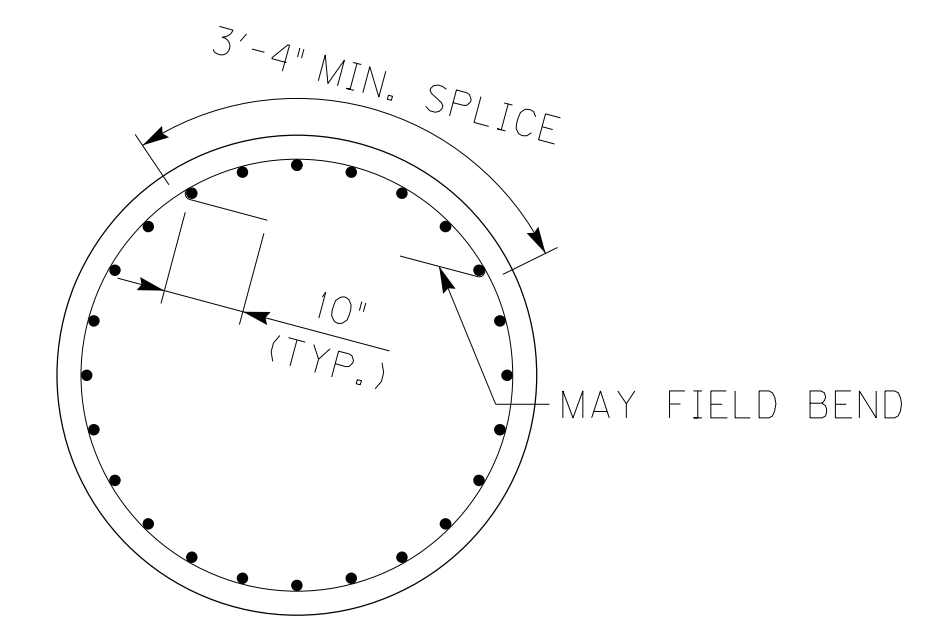
TYPICAL PEDESTAL PLAN



SECTION B-B

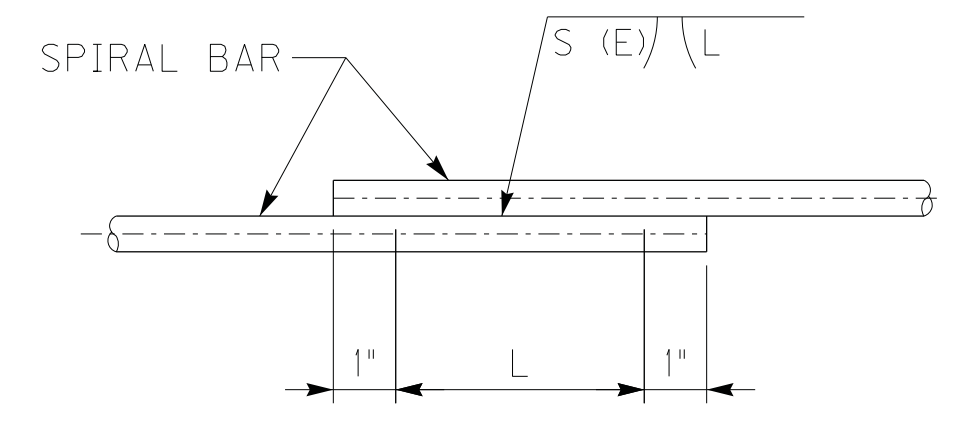


SECTION C-C



OPTIONAL SPIRAL LAP SPLICE DETAIL

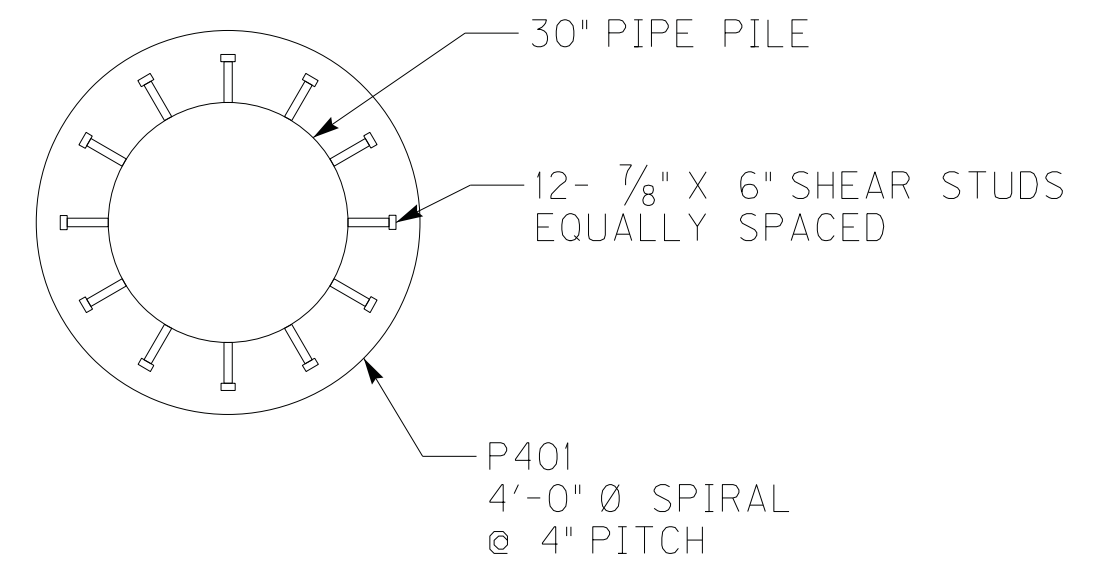
(MAY BE USED OUTSIDE PLASTIC HINGE REGIONS)



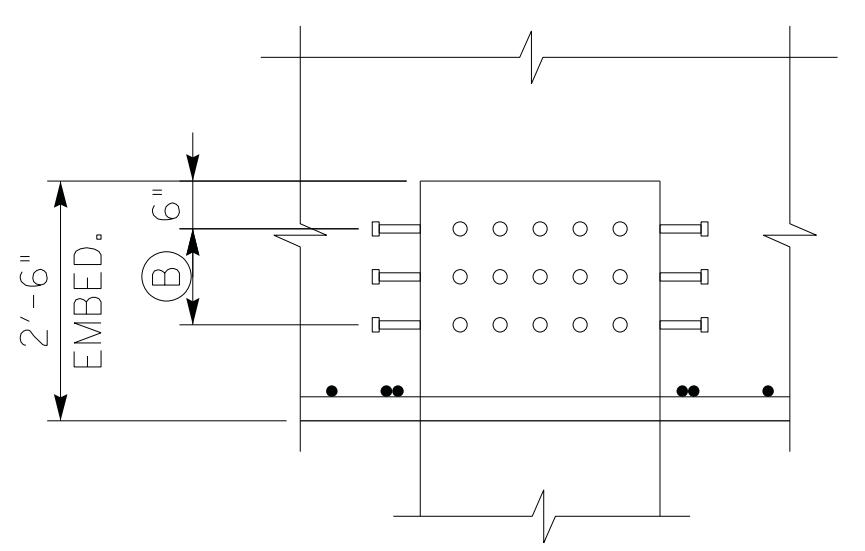
SPIRAL WELDED LAP SPLICE DETAIL

(TO BE USED IN PLASTIC HINGE REGIONS)

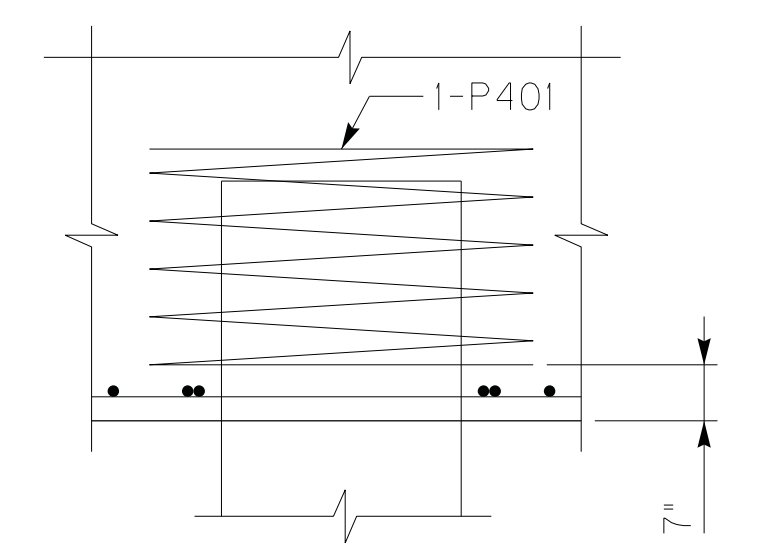
WELD DIMENSIONS (IN.)			
SPIRAL BAR SIZE	S	E	L
#4	1/4	1/8	4
#6	3/8	3/16	6



PIPE PILE TYPICAL SECTION

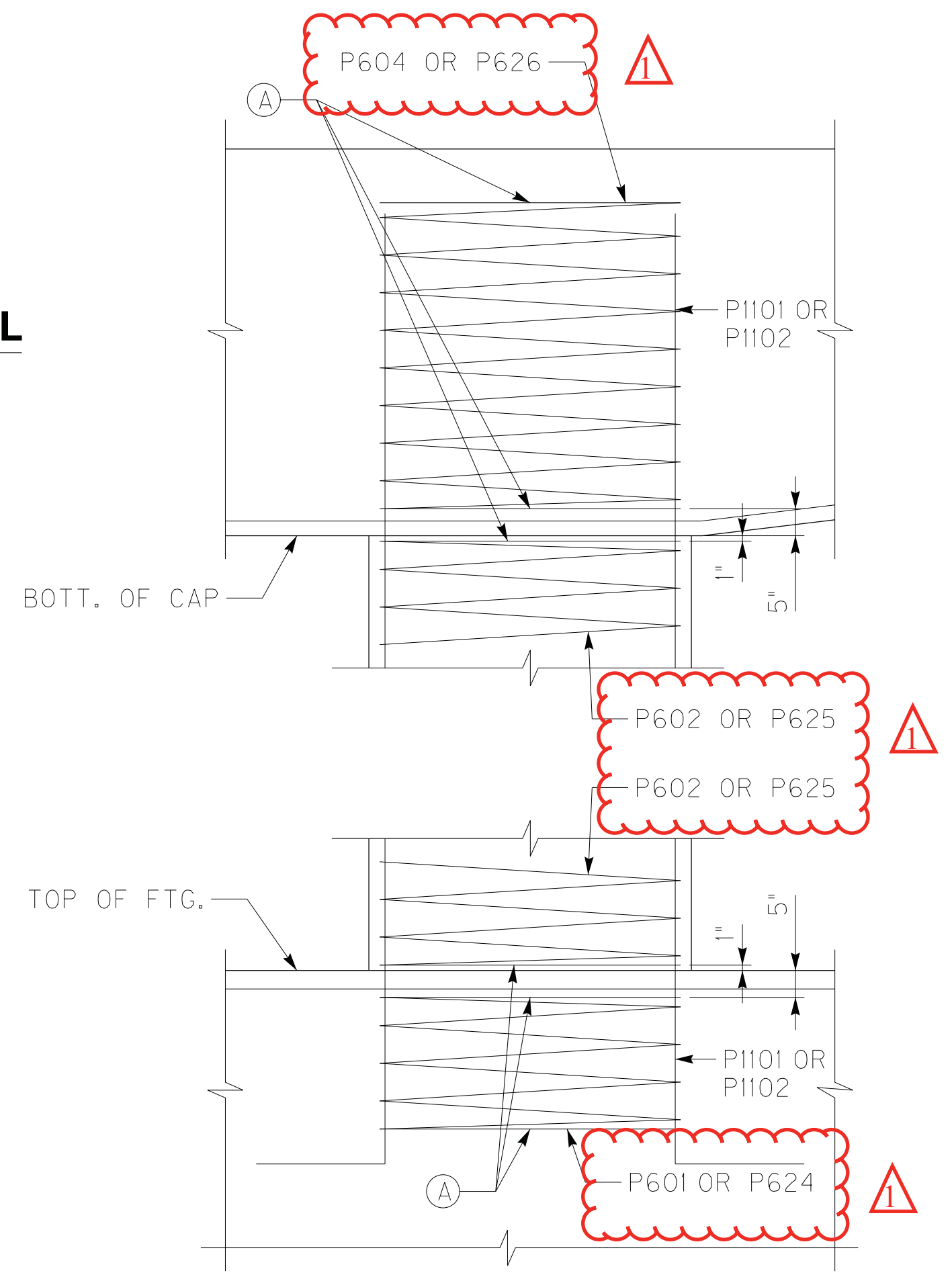


PIPE PILE STUD DETAIL



PIPE PILE SPIRAL DETAIL

(TYPICAL EACH PILE)
(SEE SHEET NO. S22 FOR ADDITIONAL REINFORCEMENT AT CORNER PIPE PILES ON PIER 2)



DETAIL AT TOP & BOTT. OF COLUMN

LEGEND

- (A) AT SPIRAL DISCONTINUITIES, THE SPIRAL SHALL TERMINATE WITH ONE AND A HALF EXTRA TURNS.
- (B) 3 ROWS OF 12 - 7/8" X 6" SHEAR STUDS SPACED @ 6" = 1'-0"

NOTES

1. INSTALL SHEAR STUDS AFTER FINAL PILE CUTOFF ELEVATION IS MADE.
2. INCLUDE COST TO FURNISH AND INSTALL SHEAR STUDS TO THE PIPE PILE IN THE BID ITEM SHEAR CONNECTORS.
3. SHEET NO. S9 FOR FOOTING CORNER LOCATIONS.

REVISION	DATE
REVISD PIER 2 SPIRAL BAR MARKS	01/31/13

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY
MARSHALL / TRIGG
ROUTE US68 CROSSING KENTUCKY LAKE LAGOON BRIDGE
PIER DETAILS



ITEM NUMBER	01-180.75
-------------	-----------

PREPARED BY
Baker
MICHAEL BAKER JR., INC.
9750 ORMSBY STATION ROAD
SUITE 210
LOUISVILLE, KY 40223

SHEET NO.	S23
DRAWING NO.	26819

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJO.DWYER\00177637\S26819_023.DGN
 USER: Mofyjo.Dwyer
 DATE PLOTTED: January 31, 2013
 E-SHEET NAME: S26819_023
 MicroStation v8.11.7.443

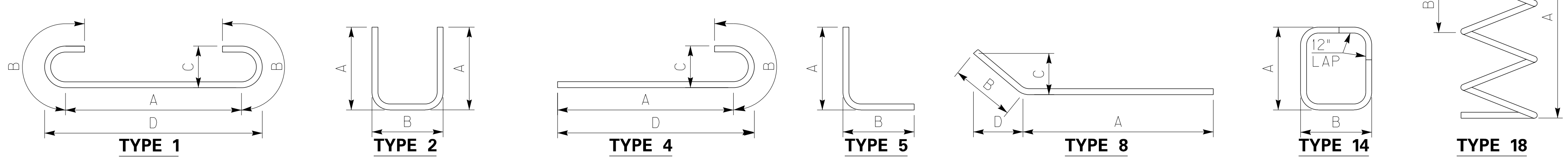
PIER 1 BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	A		B		C		D		E	
				FT	IN		FT	IN	FT	IN	FT	IN	FT	IN	FT	IN
A706 STEEL REINFORCEMENT																
P401	18	12	#4	126	0	FOOTING	2	4	0	4	4	0				
P601	18	3	#6	161	6	COLUMN	2	1	0	3 1/2	4	8				
P602	18	6	#6	293	6	COLUMN	4	11	0	3 1/2	4	8				
P603	18	3	#6	469	6	COLUMN	14	6	0	6	4	8				
P604	18	3	#6	279	0	COLUMN	4	7	0	3 1/2	4	8				
P605						NOT USED										
P1101	5	96	#11	37	1	FOOTING/COLUMN	35	1	2	0						
P1102						NOT USED										
A615 STEEL REINFORCEMENT																
P501	STR	4	#5	31	5	PIER CAP										
P502	STR	20	#5	32	6	PIER CAP										
P503	2	30	#5	9	4	PEDESTAL	2	2	5	0						
P504	2	40	#5	9	0	PEDESTAL	2	2	4	8						
P606	14s	4	#6	18	6	PIER CAP	4	8	3	7						
P607	14s	4	#6	18	9	PIER CAP	4	9 1/2	3	7						
P608	14s	4	#6	19	0	PIER CAP	4	11	3	7						
P609	14s	4	#6	19	2	PIER CAP	5	0	3	7						
P610	14s	4	#6	19	3	PIER CAP	5	1/2	3	7						
P611	14s	4	#6	19	4	PIER CAP	5	1	3	7						
P612	14s	4	#6	19	5	PIER CAP	5	1 1/2	3	7						
P613	14s	4	#6	19	6	PIER CAP	5	2	3	7						
P614	14s	4	#6	19	7	PIER CAP	5	2 1/2	3	7						
P615	14s	4	#6	19	9	PIER CAP	5	3 1/2	3	7						
P616	14s	4	#6	19	10	PIER CAP	5	4	3	7						
P617	14s	4	#6	19	11	PIER CAP	5	4 1/2	3	7						
P618	14s	4	#6	20	0	PIER CAP	5	5	3	7						
P619	14s	4	#6	20	1	PIER CAP	5	5 1/2	3	7						
P620	14s	4	#6	20	2	PIER CAP	5	6	3	7						
P621	14s	4	#6	20	3	PIER CAP	5	7	3	7						
P622	14s	4	#6	20	5	PIER CAP	5	7 1/2	3	7						
P623	14s	80	#6	20	6	PIER CAP	5	8	3	7						
P901	1	11	#9	57	0	FOOTING	53	6 1/4	1	8 7/8	0	11 3/4	54	6		
P902	1	36	#9	17	0	FOOTING	13	6 1/4	1	8 7/8	0	11 3/4	14	6		
P1001	2	21	#10	58	2	FOOTING	1	10	54	6						
P1002	2	66	#10	18	2	FOOTING	1	10	14	6						
P1003	8	28	#10	34	8	PIER CAP	26	6	8	2	0	11 5/8	8	1 1/4		
P1103	STR	14	#11	27	6	PIER CAP										
P1104	STR	14	#11	47	6	PIER CAP										
P1105	4	14	#11	29	1	PIER CAP	26	10 5/8	2	2 3/8	1	2 3/4	27	6		
P1106	4	14	#11	49	1	PIER CAP	46	10 5/8	2	2 3/8	1	2 3/4	47	6		

PIER 2 BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	A		B		C		D		E	
				FT	IN		FT	IN	FT	IN	FT	IN	FT	IN	FT	IN
A706 STEEL REINFORCEMENT																
P401	18	12	#4	126	0	FOOTING	2	4	0	4	4	0				
P601 THRU P604 NOT USED																
P605	18	3	#6	293	6	COLUMN	8	6	0	6	4	8				
P624	18	3	#6	176	0	COLUMN	2	1	0	3	4	8				
P625	18	6	#6	337	6	COLUMN	4	11	0	3	4	8				
P626	18	3	#6	323	0	COLUMN	4	7	0	3	4	8				
P1101 NOT USED																
P1102	5	84	#11	31	1	FOOTING/COLUMN	29	1	2	0						
A615 STEEL REINFORCEMENT																
P501	STR	4	#5	31	5	PIER CAP										
P502	STR	20	#5	32	6	PIER CAP										
P503	2	30	#5	9	4	PEDESTAL	2	2	5	0						
P504	2	40	#5	9	0	PEDESTAL	2	2	4	8						
P606	14s	4	#6	18	6	PIER CAP	4	8	3	7						
P607	14s	4	#6	18	9	PIER CAP	4	9 1/2	3	7						
P608	14s	4	#6	19	0	PIER CAP	4	11	3	7						
P609	14s	4	#6	19	2	PIER CAP	5	0	3	7						
P610	14s	4	#6	19	3	PIER CAP	5	1/2	3	7						
P611	14s	4	#6	19	4	PIER CAP	5	1	3	7						
P612	14s	4	#6	19	5	PIER CAP	5	1 1/2	3	7						
P613	14s	4	#6	19	6	PIER CAP	5	2	3	7						
P614	14s	4	#6	19	7	PIER CAP	5	2 1/2	3	7						
P615	14s	4	#6	19	9	PIER CAP	5	3 1/2	3	7						
P616	14s	4	#6	19	10	PIER CAP	5	4	3	7						
P617	14s	4	#6	19	11	PIER CAP	5	4 1/2	3	7						
P618	14s	4	#6	20	0	PIER CAP	5	5	3	7						
P619	14s	4	#6	20	1	PIER CAP	5	5 1/2	3	7						
P620	14s	4	#6	20	2	PIER CAP	5	6	3	7						
P621	14s	4	#6	20	3	PIER CAP	5	7	3	7						
P622	14s	4	#6	20	5	PIER CAP	5	7 1/2	3	7						
P623	14s	80	#6	20	6	PIER CAP	5	8	3	7						
P801	5	32	#8	9	0	FOOTING	7	9	1	3						
P901	1	11	#9	57	0	FOOTING	53	6 1/4	1	8 7/8	0	11 3/4	54	6		
P902	1	36	#9	17	0	FOOTING	13	6 1/4	1	8 7/8	0	11 3/4	14	6		
P1001	2	21	#10	58	2	FOOTING	1	10	54	6						
P1002	2	66	#10	18	2	FOOTING	1	10	14	6						
P1003	8	28	#10	34	8	PIER CAP	26	6	8	2	0	11 5/8	8	1 1/4		
P1103	STR	14	#11	27	6	PIER CAP										
P1104	STR	14	#11	47	6	PIER CAP										
P1105	4	14	#11	29	1	PIER CAP	26	10 5/8	2	2 3/8	1	2 3/4	27	6		
P1106	4	14	#11	49	1	PIER CAP	46	10 5/8	2	2 3/8	1	2 3/4	47	6		

FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYJO.DWYER\00177637\S26819_024.DGN
 USER: MARYJO.DWYER
 DATE PLOTTED: February 5, 2013
 E-SHEET NAME: S26819_024
 MicroStation v8.11.7.443



ITEM NUMBER
01-180.75

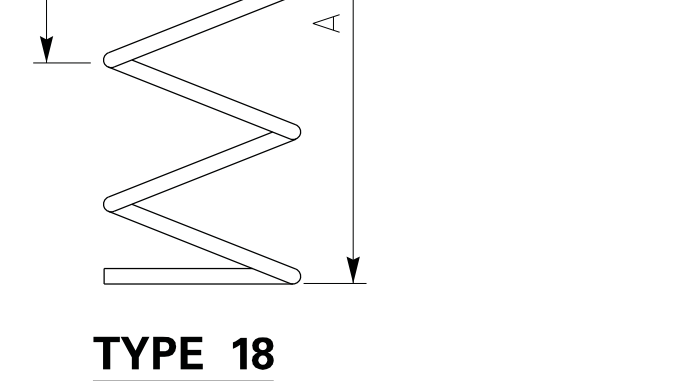
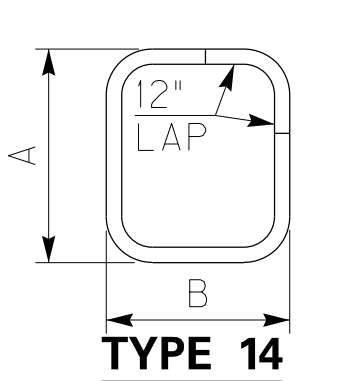
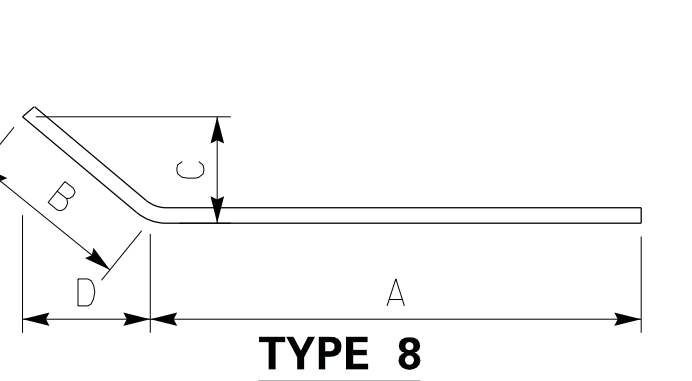
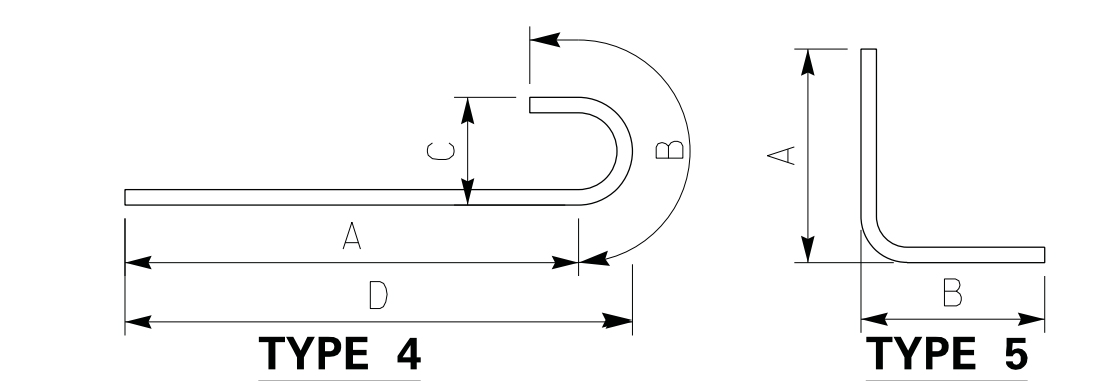
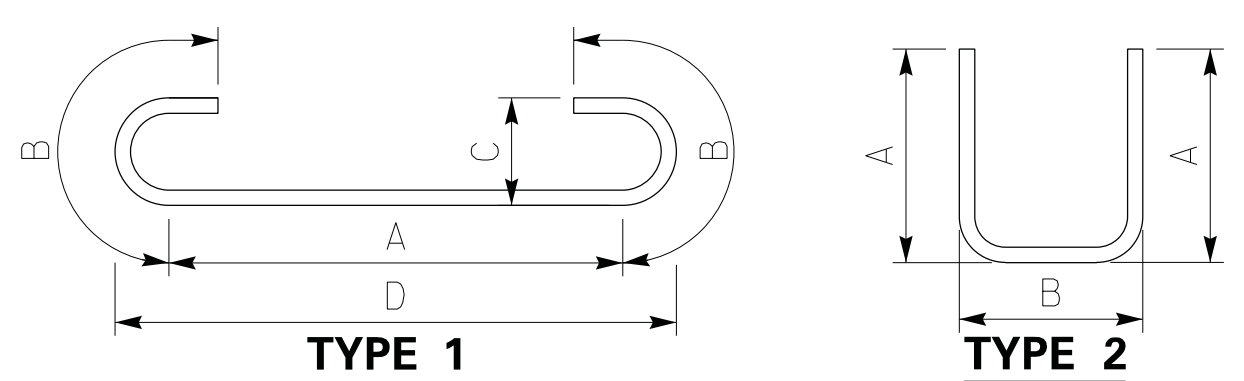
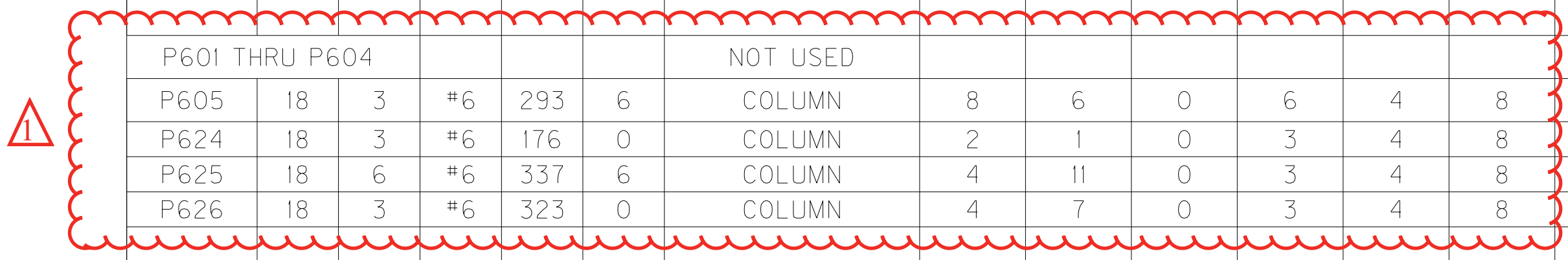
REVISION		DATE
△ REVISED PIER 2 COLUMN BARS		01/31/13
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: MJD	JCS	
DETAILED BY: CEW	MJD	
Commonwealth of Kentucky		
DEPARTMENT OF HIGHWAYS		
COUNTY		
MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
PIER BILL OF REINFORCEMENT		
PREPARED BY		SHEET NO.
MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223		S24
Baker		DRAWING NO.
		26819

PIER 1 BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	A		B		C		D		E	
				FT	IN		FT	IN	FT	IN	FT	IN	FT	IN	FT	IN
A706 STEEL REINFORCEMENT																
P401	18	12	#4	126	0	FOOTING	2	4	0	4	4	0				
P601	18	3	#6	161	6	COLUMN	2	1	0	3 1/2	4	8				
P602	18	6	#6	293	6	COLUMN	4	11	0	3 1/2	4	8				
P603	18	3	#6	469	6	COLUMN	14	6	0	6	4	8				
P604	18	3	#6	279	0	COLUMN	4	7	0	3 1/2	4	8				
P605						NOT USED										
P1101	5	96	#11	37	1	FOOTING/COLUMN	35	1	2	0						
P1102						NOT USED										
A615 STEEL REINFORCEMENT																
P501	STR	4	#5	31	5	PIER CAP										
P502	STR	20	#5	32	6	PIER CAP										
P503	2	30	#5	9	4	PEDESTAL	2	2	5	0						
P504	2	40	#5	9	0	PEDESTAL	2	2	4	8						
P606	14s	4	#6	18	6	PIER CAP	4	8	3	7						
P607	14s	4	#6	18	9	PIER CAP	4	9 1/2	3	7						
P608	14s	4	#6	19	0	PIER CAP	4	11	3	7						
P609	14s	4	#6	19	2	PIER CAP	5	0	3	7						
P610	14s	4	#6	19	3	PIER CAP	5	1/2	3	7						
P611	14s	4	#6	19	4	PIER CAP	5	1	3	7						
P612	14s	4	#6	19	5	PIER CAP	5	1 1/2	3	7						
P613	14s	4	#6	19	6	PIER CAP	5	2	3	7						
P614	14s	4	#6	19	7	PIER CAP	5	2 1/2	3	7						
P615	14s	4	#6	19	9	PIER CAP	5	3 1/2	3	7						
P616	14s	4	#6	19	10	PIER CAP	5	4	3	7						
P617	14s	4	#6	19	11	PIER CAP	5	4 1/2	3	7						
P618	14s	4	#6	20	0	PIER CAP	5	5	3	7						
P619	14s	4	#6	20	1	PIER CAP	5	5 1/2	3	7						
P620	14s	4	#6	20	2	PIER CAP	5	6	3	7						
P621	14s	4	#6	20	3	PIER CAP	5	7	3	7						
P622	14s	4	#6	20	5	PIER CAP	5	7 1/2	3	7						
P623	14s	80	#6	20	6	PIER CAP	5	8	3	7						
P901	1	11	#9	57	0	FOOTING	53	6 1/4	1	8 7/8	0	11 3/4	54	6		
P902	1	36	#9	17	0	FOOTING	13	6 1/4	1	8 7/8	0	11 3/4	14	6		
P1001	2	21	#10	58	2	FOOTING	1	10	54	6						
P1002	2	66	#10	18	2	FOOTING	1	10	14	6						
P1003	8	28	#10	34	8	PIER CAP	26	6	8	2	0	11 5/8	8	1 1/4		
P1103	STR	14	#11	27	6	PIER CAP										
P1104	STR	14	#11	47	6	PIER CAP										
P1105	4	14	#11	29	1	PIER CAP	26	10 5/8	2	2 3/8	1	2 3/4	27	6		
P1106	4	14	#11	49	1	PIER CAP	46	10 5/8	2	2 3/8	1	2 3/4	47	6		

PIER 2 BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	A		B		C		D		E	
				FT	IN		FT	IN	FT	IN	FT	IN	FT	IN	FT	IN
A706 STEEL REINFORCEMENT																
P401	18	12	#4	126	0	FOOTING	2	4	0	4	4	0				
P601 THRU P604 NOT USED																
P605	18	3	#6	293	6	COLUMN	8	6	0	6	4	8				
P624	18	3	#6	176	0	COLUMN	2	1	0	3	4	8				
P625	18	6	#6	337	6	COLUMN	4	11	0	3	4	8				
P626	18	3	#6	323	0	COLUMN	4	7	0	3	4	8				
P1101						NOT USED										
P1102	5	84	#11	31	1	FOOTING/COLUMN	29	1	2	0						
A615 STEEL REINFORCEMENT																
P501	STR	4	#5	31	5	PIER CAP										
P502	STR	20	#5	32	6	PIER CAP										
P503	2	30	#5	9	4	PEDESTAL	2	2	5	0						
P504	2	40	#5	9	0	PEDESTAL	2	2	4	8						
P606	14s	4	#6	18	6	PIER CAP	4	8	3	7						
P607	14s	4	#6	18	9	PIER CAP	4	9 1/2	3	7						
P608	14s	4	#6	19	0	PIER CAP	4	11	3	7						
P609	14s	4	#6	19	2	PIER CAP	5	0	3	7						
P610	14s	4	#6	19	3	PIER CAP	5	1/2	3	7						
P611	14s	4	#6	19	4	PIER CAP	5	1	3	7						
P612	14s	4	#6	19	5	PIER CAP	5	1 1/2	3	7						
P613	14s	4	#6	19	6	PIER CAP	5	2	3	7						
P614	14s	4	#6	19	7	PIER CAP	5	2 1/2	3	7						
P615	14s	4	#6	19	9	PIER CAP	5	3 1/2	3	7						
P616	14s	4	#6	19	10	PIER CAP	5	4	3	7						
P617	14s	4	#6	19	11	PIER CAP	5	4 1/2	3	7						
P618	14s	4	#6	20	0	PIER CAP	5	5	3	7						
P619	14s	4	#6	20	1	PIER CAP	5	5 1/2	3	7						
P620	14s	4	#6	20	2	PIER CAP	5	6	3	7						
P621	14s	4	#6	20	3	PIER CAP	5	7	3	7						
P622	14s	4	#6	20	5	PIER CAP	5	7 1/2	3	7						
P623	14s	80	#6	20	6	PIER CAP	5	8	3	7						
P801	5	32	#8	9	0	FOOTING	7	9	1	3						
P901	1	11	#9	57	0	FOOTING	53	6 1/4	1	8 7/8	0	11 3/4	54	6		
P902	1	36	#9	17	0	FOOTING	13	6 1/4	1	8 7/8	0	11 3/4	14	6		
P1001	2	21	#10	58	2	FOOTING	1	10	54	6						
P1002	2	66	#10	18	2	FOOTING	1	10	14	6						
P1003	8	28	#10	34	8	PIER CAP	26	6	8	2	0	11 5/8	8	1 1/4		
P1103	STR	14	#11	27	6	PIER CAP										
P1104	STR	14	#11	47	6	PIER CAP										
P1105	4	14	#11	29	1	PIER CAP	26	10 5/8	2	2 3/8	1	2 3/4	27	6		
P1106	4	14	#11	49	1	PIER CAP	46	10 5/8	2	2 3/8	1	2 3/4	47	6		



FILE NAME: C:\PW\81-LOCAL\BAKER_PROJECTS\MARYU.DWYER\00177637\S26819_024.DGN
 USER: MaryU.Dwyer
 DATE PLOTTED: January 31, 2013
 E-SHEET NAME: S26819_024
 MicroStation v8.11.7.443

REVISD PIER 2 COLUMN BARS		01/31/13
REVISION		DATE
DATE: AUGUST 31, 2012	CHECKED BY	
DESIGNED BY: MJD	JCS	
DETAILED BY: CEW	MJD	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY MARSHALL / TRIGG		
ROUTE US68	CROSSING KENTUCKY LAKE LAGOON BRIDGE	
PIER BILL OF REINFORCEMENT		
ITEM NUMBER	PREPARED BY	
01-180.75	Baker	
MICHAEL BAKER JR., INC. 9750 ORMSBY STATION ROAD SUITE 210 LOUISVILLE, KY 40223		SHEET NO. S24 DRAWING NO. 26819



Lake Bridges, Marshall/Trigg Counties 1-180.75
121GR13D054-BRO

**SPECIAL NOTE
FOR
PILE LOAD TEST PROGRAM INCENTIVE**

Incentive

This incentive is based on final submittal of ALL work and test results associated with the *Special Note for Pile Load Test Program*, the *Special Note for Dynamic Pile Testing*, and the *Special Note for Static and Pseudo-Static Pile Testing* being completed sooner, but no later than 190 calendar days from the Notice to Begin Work.

Contrary to Section 108.07.04 of the Standard Specifications and Section 1.3 of the *Special Note for Pile Load Test Program*, **time extensions for the 190 calendar days will not be granted for any reason for the purpose of incentive payment.** If all work is not submitted by the end of this period no incentive will be paid and only disincentive fees according to the *Special Note for Pile Load Test Program* will apply.

An incentive of \$5,000 per calendar day will be paid for each day all work associated with the *Special Note for Pile Load Test Program*, the *Special Note for Dynamic Pile Testing*, and the *Special Note for Static and Pseudo-Static Pile Testing* is completed less than the 190 calendar days allowed. In order to qualify for the incentive it will be imperative for the “Final Submittal of ALL Test Results” to contain sufficient information for the Department to expeditiously evaluate the test results and apply them to the foundation design for the bridge. Therefore, the Contractor is strongly encouraged to submit test results as soon as possible during the course of the testing program in order to allow for effective communication between the Contractor and the Department. The intent is to ensure that the “Final Submittal of ALL Test Results” will include sufficient information that is clear to the Department and its consultants. **The maximum incentive payment will be \$150,000 (30 days).**

February 12, 2013

MATERIAL SUMMARY

CONTRACT ID: 131305

121GR13D054-BRO

DE079006812R1

CADIZ-AURORA ROAD (US 68-KY 80) BRIDGE OVER LAGOON WEST OF KY LAKE AND KY LAKE CAUSEWAY RECONSTRUCT, WIDENING AND IMPROVEMENTS GRADE & DRAIN WITH BRIDGE, A DISTANCE OF .48 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0010	00443	ENTRANCE PIPE-24 IN	64.00	LF
0020	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	18.00	EACH
0030	02014	BARRICADE-TYPE III	1.00	EACH
0040	02159	TEMP DITCH	1,892.00	LF
0050	02160	CLEAN TEMP DITCH	3,784.00	LF
0060	02204	SPECIAL EXCAVATION	2,532.00	CUYD
0070	02223	GRANULAR EMBANKMENT	88,650.00	CUYD
0080	02230	EMBANKMENT IN PLACE	98,229.00	CUYD
0090	02351	GUARDRAIL-STEEL W BEAM-S FACE	1,687.50	LF
0100	02367	GUARDRAIL END TREATMENT TYPE 1	2.00	EACH
0110	02369	GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH
0120	02545	CLEARING AND GRUBBING - (5.93 ACRES IN MARSHALL COUNTY)	1.00	LS
0130	02562	SIGNS	99.50	SQFT
0140	02596	FABRIC-GEOTEXTILE TYPE I	8,069.00	SQYD
0150	02598	FABRIC-GEOTEXTILE TYPE III	30,673.00	SQYD
0160	02599	FABRIC-GEOTEXTILE TYPE IV	16,633.00	SQYD
0170	02650	MAINTAIN & CONTROL TRAFFIC - (MARSHALL COUNTY)	1.00	LS
0180	02653	LANE CLOSURE	1.00	EACH
0190	02701	TEMP SILT FENCE	3,784.00	LF
0200	02703	SILT TRAP TYPE A	9.00	EACH
0210	02704	SILT TRAP TYPE B	9.00	EACH
0220	02706	CLEAN SILT TRAP TYPE A	27.00	EACH
0230	02707	CLEAN SILT TRAP TYPE B	27.00	EACH
0240	02709	CLEAN TEMP SILT FENCE	7,568.00	LF
0250	02726	STAKING - (MARSHALL COUNTY)	1.00	LS
0260	05950	EROSION CONTROL BLANKET	3,534.00	SQYD
0270	05952	TEMP MULCH	39,138.00	SQYD
0280	05953	TEMP SEEDING AND PROTECTION	39,138.00	SQYD
0290	05966	TOPDRESSING FERTILIZER	1.50	TON
0300	05985	SEEDING AND PROTECTION	28,644.00	SQYD
0310	08019	CYCLOPEAN STONE RIP RAP	21,431.00	TON
0320	08020	CRUSHED AGGREGATE SLOPE PROT	130.00	TON
0330	20209EP69	GRANULAR PILE CORE	973.00	CUYD
0340	02231	STRUCTURE GRANULAR BACKFILL	640.00	CUYD
0350	02998	MASONRY COATING	2,472.00	SQYD
0360	03299	ARMORED EDGE FOR CONCRETE	129.00	LF
0370	08001	STRUCTURE EXCAVATION-COMMON	851.00	CUYD
0380	08033	TEST PILES - (HP 18 X 157)	485.00	LF
0390	08033	TEST PILES - (30 IN PILE); (REVISED: 2-12-13)	505.00	LF
0400	08039	PRE-DRILLING FOR PILES - (HB 18 X 157)	1,043.00	LF
0410	08039	PRE-DRILLING FOR PILES - (30 IN PIPE PILE)	1,002.00	LF

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0420	08040	LOADING TESTS - (STATIC HP 18 X 157)	1.00	EACH
0430	08040	LOADING TESTS - (STATIC 30 IN PIPE PILE)	1.00	EACH
0440	08100	CONCRETE-CLASS A	724.00	CUYD
0450	08104	CONCRETE-CLASS AA	1,400.00	CUYD
0460	08150	STEEL REINFORCEMENT - (REVISED: 2-12-13)	130,461.00	LB
0470	08151	STEEL REINFORCEMENT-EPOXY COATED	428,248.00	LB
0480	08160	STRUCTURAL STEEL - (1,565,339 LBS)	1.00	LS
0490	08170	SHEAR CONNECTORS - (10,332 LBS)	1.00	LS
0500	08500	APPROACH SLAB	358.00	SQYD
0510	23233EC	DYNAMIC PILE TESTING - (ON LAND INITIAL)	10.00	EACH
0520	23233EC	DYNAMIC PILE TESTING - (ON LAND RESTRIKE)	14.00	EACH
0530	23699EC	STEEL ENCASMENT PIPE-30 IN	100.00	LF
0540	24532ED	EXPANSION DAM-3 1/2 IN NEOPRENE	129.00	LF
0550	24533ED	PILES-STEEL HP18X157	1,155.00	LF
0560	24534ED	PIPE PILE-30" - (REVISED: 2-12-13)	1,610.00	LF
0570	24535ED	PILE PREPROBING - (HP 18 X 157)	794.00	LF
0580	24535ED	PILE PREPROBING - (30 IN PIPE PILE); (REVISED: 2-12-13)	815.00	LF
0590	24536ED	PILE POINTS-18"	19.00	EACH
0600	24537ED	OPEN END INSIDE FIT CUTTING SHOE-30"	25.00	EACH
0610	24538ED	RAIL SYSTEM TYPE 11	1,268.00	LF
0620	24544EC	REMOVE - (SOIL PLUG 30 IN PIPE PILES)	500.00	LF
0630	24545EC	BACKFILL - (PIPE PILE); (REVISED: 2-12-13)	170.00	TON
0640	08033	TEST PILES - (FURNISH-48 IN PIPE-1 IN)	185.00	LF
0650	08033	TEST PILES - (FURNISH-48 IN PIPE-1.5 IN)	370.00	LF
0660	08033	TEST PILES - (FURNISH-72 IN PIPE-1.5 IN)	185.00	LF
0670	08033	TEST PILES - (FURNISH-72 IN PIPE-2 IN)	185.00	LF
0680	08033	TEST PILES - (INSTALL-48 IN PIPE-1 IN)	150.00	LF
0690	08033	TEST PILES - (INSTALL-48 IN PIPE-1.5 IN)	300.00	LF
0700	08033	TEST PILES - (INSTALL-72 IN PIPE-1.5 IN)	150.00	LF
0710	08033	TEST PILES - (INSTALL-72 IN PIPE-2 IN)	150.00	LF
0720	08040	LOADING TESTS - (STATIC-48 IN PIPE)	1.00	EACH
0730	23233EC	DYNAMIC PILE TESTING - (ON WATER-INITIAL)	15.00	EACH
0740	23233EC	DYNAMIC PILE TESTING - (ON WATER-RESTRIKE)	20.00	EACH
0750	24548EC	FURNISH EQUIPMENT FOR PILE TEST PROGRAM - (MARSHALL COUNTY)	1.00	LS
0760	24549EC	PSEUDO-STATIC LOAD TEST - (AXIAL-48 IN PIPE)	1.00	EACH
0770	24549EC	PSEUDO-STATIC LOAD TEST - (AXIAL-72 IN PIPE)	1.00	EACH
0780	24549EC	PSEUDO-STATIC LOAD TEST - (LATERAL-72 IN PIPE)	1.00	EACH
0790	24550EC	VIBRATION MONITORING - (MARSHALL COUNTY)	1.00	LS
0800	24552EC	SPLICE TEST PILE - (48 IN PIPE-1 IN)	1.00	EACH
0810	24552EC	SPLICE TEST PILE - (48 IN PIPE-1.5 IN)	4.00	EACH
0820	24552EC	SPLICE TEST PILE - (72 IN PIPE-1.5 IN)	1.00	EACH
0830	24552EC	SPLICE TEST PILE - (72 IN PIPE-2 IN)	3.00	EACH
0840	02568	MOBILIZATION	1.00	LS
0850	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 131305

121GR13D054-BRO

DE111006812R1

CADIZ-AURORA ROAD (US 68-KY 80) BRIDGE OVER LAGOON WEST OF KY LAKE AND KY LAKE CAUSEWAY RECONSTRUCT, WIDENING AND IMPROVEMENTS GRADE & DRAIN WITH BRIDGE, A DISTANCE OF .48 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0860	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	15.00	EACH
0870	02159	TEMP DITCH	748.00	LF
0880	02160	CLEAN TEMP DITCH	1,496.00	LF
0890	02204	SPECIAL EXCAVATION	2,097.00	CUYD
0900	02223	GRANULAR EMBANKMENT	33,241.00	CUYD
0910	02230	EMBANKMENT IN PLACE	40,201.00	CUYD
0920	02351	GUARDRAIL-STEEL W BEAM-S FACE	1,462.50	LF
0930	02391	GUARDRAIL END TREATMENT TYPE 4A	1.00	EACH
0940	02545	CLEARING AND GRUBBING - (2.72 ACRES IN TRIGG COUNTY)	1.00	LS
0950	02562	SIGNS	89.50	SQFT
0960	02596	FABRIC-GEOTEXTILE TYPE I	3,993.00	SQYD
0970	02598	FABRIC-GEOTEXTILE TYPE III	12,723.00	SQYD
0980	02599	FABRIC-GEOTEXTILE TYPE IV	7,209.00	SQYD
0990	02650	MAINTAIN & CONTROL TRAFFIC - (TRIGG COUNTY)	1.00	LS
1000	02653	LANE CLOSURE	1.00	EACH
1010	02701	TEMP SILT FENCE	1,496.00	LF
1020	02703	SILT TRAP TYPE A	3.00	EACH
1030	02704	SILT TRAP TYPE B	3.00	EACH
1040	02706	CLEAN SILT TRAP TYPE A	9.00	EACH
1050	02707	CLEAN SILT TRAP TYPE B	9.00	EACH
1060	02709	CLEAN TEMP SILT FENCE	2,992.00	LF
1070	02726	STAKING - (TRIGG COUNTY)	1.00	LS
1080	05950	EROSION CONTROL BLANKET	879.00	SQYD
1090	05952	TEMP MULCH	14,832.00	SQYD
1100	05953	TEMP SEEDING AND PROTECTION	14,832.00	SQYD
1110	05966	TOPDRESSING FERTILIZER	.50	TON
1120	05985	SEEDING AND PROTECTION	10,386.00	SQYD
1130	08019	CYCLOPEAN STONE RIP RAP	8,469.00	TON
1140	08033	TEST PILES - (FURNISH-72 IN PIPE-2 IN)	210.00	LF
1150	08033	TEST PILES - (INSTALL-72 IN PIPE-2 IN)	120.00	LF
1160	23233EC	DYNAMIC PILE TESTING - (ON WATER-INITIAL)	3.00	EACH
1170	23233EC	DYNAMIC PILE TESTING - (ON WATER-RESTRIKE)	4.00	EACH
1180	24548EC	FURNISH EQUIPMENT FOR PILE TEST PROGRAM - (TRIGG COUNTY)	1.00	LS
1190	24550EC	VIBRATION MONITORING - (TRIGG COUNTY)	1.00	LS
1200	24552EC	SPLICE TEST PILE - (72 IN PIPE-2 IN)	1.00	EACH
1210	02568	MOBILIZATION	1.00	LS
1220	02569	DEMOBILIZATION	1.00	LS

PROPOSAL BID ITEMS

Report Date 2/12/13

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00443		ENTRANCE PIPE-24 IN	64.00	LF		\$	
0020	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	33.00	EACH		\$	
0030	02014		BARRICADE-TYPE III	1.00	EACH		\$	
0040	02159		TEMP DITCH	2,640.00	LF		\$	
0050	02160		CLEAN TEMP DITCH	5,280.00	LF		\$	
0060	02204		SPECIAL EXCAVATION	4,629.00	CUYD		\$	
0070	02223		GRANULAR EMBANKMENT	121,891.00	CUYD		\$	
0080	02230		EMBANKMENT IN PLACE	138,430.00	CUYD		\$	
0090	02351		GUARDRAIL-STEEL W BEAM-S FACE	3,150.00	LF		\$	
0100	02367		GUARDRAIL END TREATMENT TYPE 1	2.00	EACH		\$	
0110	02369		GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH		\$	
0120	02391		GUARDRAIL END TREATMENT TYPE 4A	1.00	EACH		\$	
0130	02545		CLEARING AND GRUBBING(2.72 ACRES IN TRIGG COUNTY)	1.00	LS		\$	
0140	02545		CLEARING AND GRUBBING(5.93 ACRES IN MARSHALL COUNTY)	1.00	LS		\$	
0150	02562		SIGNS	189.00	SQFT		\$	
0160	02596		FABRIC-GEOTEXTILE TYPE I	12,062.00	SQYD		\$	
0170	02598		FABRIC-GEOTEXTILE TYPE III	43,396.00	SQYD		\$	
0180	02599		FABRIC-GEOTEXTILE TYPE IV	23,842.00	SQYD		\$	
0190	02650		MAINTAIN & CONTROL TRAFFIC(TRIGG COUNTY)	1.00	LS		\$	
0200	02650		MAINTAIN & CONTROL TRAFFIC(MARSHALL COUNTY)	1.00	LS		\$	
0210	02653		LANE CLOSURE	2.00	EACH		\$	
0220	02701		TEMP SILT FENCE	5,280.00	LF		\$	
0230	02703		SILT TRAP TYPE A	12.00	EACH		\$	
0240	02704		SILT TRAP TYPE B	12.00	EACH		\$	
0250	02706		CLEAN SILT TRAP TYPE A	36.00	EACH		\$	
0260	02707		CLEAN SILT TRAP TYPE B	36.00	EACH		\$	
0270	02709		CLEAN TEMP SILT FENCE	10,560.00	LF		\$	
0280	02726		STAKING(TRIGG COUNTY)	1.00	LS		\$	
0290	02726		STAKING(MARSHALL COUNTY)	1.00	LS		\$	
0300	05950		EROSION CONTROL BLANKET	4,413.00	SQYD		\$	
0310	05952		TEMP MULCH	53,970.00	SQYD		\$	
0320	05953		TEMP SEEDING AND PROTECTION	53,970.00	SQYD		\$	
0330	05966		TOPDRESSING FERTILIZER	2.00	TON		\$	
0340	05985		SEEDING AND PROTECTION	39,030.00	SQYD		\$	
0350	08019		CYCLOPEAN STONE RIP RAP	29,900.00	TON		\$	
0360	08020		CRUSHED AGGREGATE SLOPE PROT	130.00	TON		\$	
0370	20209EP69		GRANULAR PILE CORE	973.00	CUYD		\$	

PROPOSAL BID ITEMS

Report Date 2/12/13

Section: 0002 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0380	02231		STRUCTURE GRANULAR BACKFILL	640.00	CUYD		\$	
0390	02998		MASONRY COATING	2,472.00	SQYD		\$	
0400	03299		ARMORED EDGE FOR CONCRETE	129.00	LF		\$	
0410	08001		STRUCTURE EXCAVATION-COMMON	851.00	CUYD		\$	
0420	08033		TEST PILES(HP 18 X 157)	485.00	LF		\$	
0430	08033		TEST PILES(30 IN PILE); (REVISED: 2-12-13)	505.00	LF		\$	
0440	08039		PRE-DRILLING FOR PILES(HB 18 X 157)	1,043.00	LF		\$	
0450	08039		PRE-DRILLING FOR PILES(30 IN PIPE PILE)	1,002.00	LF		\$	
0460	08040		LOADING TESTS(STATIC HP 18 X 157)	1.00	EACH		\$	
0470	08040		LOADING TESTS(STATIC 30 IN PIPE PILE)	1.00	EACH		\$	
0480	08100		CONCRETE-CLASS A	724.00	CUYD		\$	
0490	08104		CONCRETE-CLASS AA	1,400.00	CUYD		\$	
0500	08150		STEEL REINFORCEMENT(REVISED: 2-12-13)	130,461.00	LB		\$	
0510	08151		STEEL REINFORCEMENT-EPOXY COATED	428,248.00	LB		\$	
0520	08160		STRUCTURAL STEEL(1,565,339 LBS)	1.00	LS		\$	
0530	08170		SHEAR CONNECTORS(10,332 LBS)	1.00	LS		\$	
0540	08500		APPROACH SLAB	358.00	SQYD		\$	
0550	23233EC		DYNAMIC PILE TESTING(ON LAND INITIAL)	10.00	EACH		\$	
0560	23233EC		DYNAMIC PILE TESTING(ON LAND RESTRIKE)	14.00	EACH		\$	
0570	23699EC		STEEL ENCASMENT PIPE-30 IN	100.00	LF		\$	
0580	24532ED		EXPANSION DAM-3 1/2 IN NEOPRENE	129.00	LF		\$	
0590	24533ED		PILES-STEEL HP18X157	1,155.00	LF		\$	
0600	24534ED		PIPE PILE-30"(REVISED: 2-12-13)	1,610.00	LF		\$	
0610	24535ED		PILE PREPROBING(HP 18 X 157)	794.00	LF		\$	
0620	24535ED		PILE PREPROBING(30 IN PIPE PILE); (REVISED: 2-12-13)	815.00	LF		\$	
0630	24536ED		PILE POINTS-18"	19.00	EACH		\$	
0640	24537ED		OPEN END INSIDE FIT CUTTING SHOE-30"	25.00	EACH		\$	
0650	24538ED		RAIL SYSTEM TYPE 11	1,268.00	LF		\$	
0660	24544EC		REMOVE(SOIL PLUG 30 IN PIPE PILES)	500.00	LF		\$	
0670	24545EC		BACKFILL(PIPE PILE); (REVISED: 2-12-13)	170.00	TON		\$	

PROPOSAL BID ITEMS

Report Date 2/12/13

Section: 0003 - PILE LOAD TESTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0680	08033		TEST PILES(FURNISH-72 IN PIPE-2 IN)	395.00	LF		\$	
0690	08033		TEST PILES(INSTALL-72 IN PIPE-2 IN)	270.00	LF		\$	
0700	08033		TEST PILES(FURNISH-48 IN PIPE-1 IN)	185.00	LF		\$	
0710	08033		TEST PILES(FURNISH-48 IN PIPE-1.5 IN)	370.00	LF		\$	
0720	08033		TEST PILES(FURNISH-72 IN PIPE-1.5 IN)	185.00	LF		\$	
0730	08033		TEST PILES(INSTALL-48 IN PIPE-1 IN)	150.00	LF		\$	
0740	08033		TEST PILES(INSTALL-48 IN PIPE-1.5 IN)	300.00	LF		\$	
0750	08033		TEST PILES(INSTALL-72 IN PIPE-1.5 IN)	150.00	LF		\$	
0760	08040		LOADING TESTS(STATIC-48 IN PIPE)	1.00	EACH		\$	
0770	23233EC		DYNAMIC PILE TESTING(ON WATER-INITIAL)	18.00	EACH		\$	
0780	23233EC		DYNAMIC PILE TESTING(ON WATER-RESTRIKE)	24.00	EACH		\$	
0790	24548EC		FURNISH EQUIPMENT FOR PILE TEST PROGRAM(TRIGG COUNTY)	1.00	LS		\$	
0800	24548EC		FURNISH EQUIPMENT FOR PILE TEST PROGRAM(MARSHALL COUNTY)	1.00	LS		\$	
0810	24549EC		PSEUDO-STATIC LOAD TEST(AXIAL-48 IN PIPE)	1.00	EACH		\$	
0820	24549EC		PSEUDO-STATIC LOAD TEST(AXIAL-72 IN PIPE)	1.00	EACH		\$	
0830	24549EC		PSEUDO-STATIC LOAD TEST(LATERAL-72 IN PIPE)	1.00	EACH		\$	
0840	24550EC		VIBRATION MONITORING(TRIGG COUNTY)	1.00	LS		\$	
0850	24550EC		VIBRATION MONITORING(MARSHALL COUNTY)	1.00	LS		\$	
0860	24552EC		SPLICE TEST PILE(72 IN PIPE-2 IN)	4.00	EACH		\$	
0870	24552EC		SPLICE TEST PILE(48 IN PIPE-1 IN)	1.00	EACH		\$	
0880	24552EC		SPLICE TEST PILE(48 IN PIPE-1.5 IN)	4.00	EACH		\$	
0890	24552EC		SPLICE TEST PILE(72 IN PIPE-1.5 IN)	1.00	EACH		\$	

Section: 0004 - MOBILIZATION / DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0900	02568		MOBILIZATION	1.00	LS		\$	
0910	02569		DEMOBILIZATION	1.00	LS		\$	