DRILLED SHAFT OPTION

POST TYPE	PIPE COLUMN O.D.	PIPE COLUMN WEIGHT (LBS.)	"E"	SPLIT	BASE PLATE SIZE✳✳	ANCHOR BOLT NO.	ANCHOR BOLT DIA.	C	FA	FB	FC	FD	FH	COLLAR REINFORCEMENT MOMENT-C1 BARS	MOMENT-C1 SPACING	SHEAR-C2 BARS	SHEAR-C2 SPACING	SKIN-C3 BARS	SKIN-C3 SPACING	SHAFT REINFORCEMENT LONGITUDINAL S1 QUANTITY	LONGITUDINAL S1 BARS	SHEAR-S2 BARS	SHEAR-S2 SPACING	REBAR TOTAL (LBS.)	CON-CRETE (CU.YDS.)
III	18"	93.45	8 1/2"	0"	2'-8" x 2'-8" x 1 3/4"	10	2"	2'-10"	4'-0"	7'-6"	1'-6"	4'-6"	14'-0"	#6	6"	#4	12"	#4	12"	19	#10	#5	6"	2126	12.4
IV	20"	104.13	8 1/2"	0"	2'-10" x 2'-10" x 2"	10	2 1/4"	3'-0"	4'-0"	7'-6"	1'-6"	4'-6"	14'-0"	#6	6"	#4	12"	#4	12"	19	#10	#5	6"	2126	12.4
V	18"	93.45	8 1/2"	7"	3'-3" x 2'-8" x 2"	10	2 1/4"	2'-10"	5'-0"	13'-6"	4'-0"	5'-6"	17'-0"	#6	6"	#4	12"	#4	12"	22	#11	#6	6"	3901	26.5
VI	20"	104.13	8 1/2"	8"	3'-6' x 2'-10" x 2 1/4"	10	2 1/4"	3'-0"	5'-0"	14'-0"	4'-0"	6'-0"	18'-0"	#6	6"	#4	12"	#4	12"	27	#11	#6	6"	4742	31.8
VII	24"	125.49	9"	8"	3'-10" x 3'-2" x 2 1/4"	10	2 1/2"	3'-4"	5'-0"	14'-0"	4'-0"	6'-0"	18'-0"	#6	6"	#4	12"	#4	12"	27	#11	#6	6"	4742	31.8

ALTERNATE PEDESTALS

POST TYPE	REBAR TOTAL (LBS.) TYPE A	REBAR TOTAL (LBS.) TYPE C	CONCRETE (CU.YDS.) TYPE A	CONCRETE (CU.YDS.) TYPE C
III	2066	2077	13.4	14.5
IV	2066	2077	13.5	14.6
V	3763	3782	28.8	30.7
VI	4528	4547	34.1	36.2
VII	4528	4547	34.5	36.8

SPREAD FOOTING OPTION

POST TYPE	PIPE COLUMN O.D.	PIPE COLUMN WEIGHT (LBS.)	"E"	SPLIT	BASE PLATE SIZE✳✳	ANCHOR BOLT NO.	ANCHOR BOLT DIA.	PEDESTAL SIZE ✳ a	PEDESTAL SIZE ✳ b	FOOTING SIZE ✳	LONGITUDINAL FOOTING REINFORCEMENT TOP NO.	TOP BARS	BOTTOM NO.	BOTTOM BARS	PEDESTAL REINFORCEMENT NO.	BARS	NO.	BARS	REBAR TOTAL (LBS.)	CON-CRETE (CU.YDS.)
III	18"	93.45	8 1/2"	0"	2'-8" x 2'-8" x 1 3/4"	10	2"	4'-2"	3'-8"	10'-0" x 13'-0"	10	#5	10	#5	10	#4	14	#8	695	14.4
IV	20"	104.13	8 1/2"	0"	2'-10" x 2'-10" x 2"	10	2 1/4"	4'-4"	3'-10"	10'-0' x 14'-0"	10	#5	10	#5	10	#4	14	#8	733	15.6
V	18"	93.45	8 1/2"	7"	3'-3" x 2'-8" x 2"	10	2 1/4"	4'-9"	3'-8"	9'-0" x 17'-0"	9	#5	10	#7	10	#4	14	#8	955	16.5
VI	20"	104.13	8 1/2"	8"	3'-6' x 2'-10" x 2 1/4"	10	2 1/4"	5'-0"	3'-10"	9'-0" x 19'-0"	9	#5	10	#7	10	#4	14	#8	1028	18.4
VII	24"	125.49	9"	8"	3'-10" x 3'-2" x 2 1/4"	10	2 1/2"	5'-4"	4'-2"	10'-0" x 20'-0"	9	#5	12	#7	10	#4	14	#8	1196	21.5

SPREAD FOOTING OPTION WITH ALTERNATE PEDESTALS

POST TYPE	PIPE COLUMN O.D.	PIPE COLUMN WEIGHT (LBS.)	"E"	SPLIT	BASE PLATE SIZE✳✳	ANCHOR BOLT NO.	ANCHOR BOLT DIA.	PEDESTAL SIZE ✳ c	PEDESTAL SIZE ✳ d	PEDESTAL SIZE ✳ e	FOOTING SIZE ✳	TYPE A LONGITUDINAL FOOTING REINFORCEMENT TOP NO.	TOP BARS	BOTTOM NO.	BOTTOM BARS	TYPE A PEDESTAL REINFORCEMENT NO.	BARS	NO.	BARS	TYPE A REBAR TOTAL (LBS.)	TYPE A CONCRETE (CU.YDS.)	TYPE C LONGITUDINAL FOOTING REINFORCEMENT TOP NO.	TOP BARS	BOTTOM NO.	BOTTOM BARS	TYPE C PEDESTAL REINFORCEMENT NO.	BARS	NO.	BARS	TYPE C REBAR TOTAL (LBS.)	TYPE C CONCRETE (CU.YDS.)
III	18"	93.45	8 1/2"	0"	2'-8" x 2'-8" x 1 3/4"	10	2"	2'-10"	6'-6"	15"	10'-0" x 13'-0"	10	#5	10	#5	10	#4	14	#8	757	14.4	10	#4	10	#5	12	#4	14	#8	800	15.3
IV	20"	104.13	8 1/2"	0"	2'-10" x 2'-10" x 2"	10	2 1/4"	3'-0"	6'-9"	18"	10'-0' x 14'-0"	10	#5	10	#5	10	#4	14	#8	795	15.6	10	#4	10	#5	12	#4	14	#8	839	16.5
V	18"	93.45	8 1/2"	7"	3'-3" x 2'-8" x 2"	10	2 1/4"	2'-10"	7'-0"	12"	9'-0" x 17'-0"	9	#5	10	#7	10	#4	14	#8	1015	16.5	10	#4	10	#7	12	#4	14	#8	1059	17.5
VI	20"	104.13	8 1/2"	8"	3'-6' x 2'-10" x 2 1/4"	10	2 1/4"	3'-0"	7'-6"	15"	9'-0" x 19'-0"	9	#5	10	#7	10	#4	14	#8	1099	18.4	10	#4	10	#7	12	#4	14	#8	1134	19.5
VII	24"	125.49	9"	8"	3'-10" x 3'-2" x 2 1/4"	10	2 1/2"	3'-4"	7'-10"	15"	10'-0" x 20'-0"	9	#5	12	#7	10	#4	14	#8	1257	21.5	10	#4	12	#7	12	#4	14	#8	1302	22.6

✳ BASE PLATES, PEDESTAL AND FOOTINGS, LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.
✳✳ BASE PLATES, PEDESTAL AND FOUNDATIONS, LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
KATHRYN PHILLIPS HARVEY
NUMBER PE-23751
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

OVERHEAD SIGN TRUSSES
OPTIONAL SUBSTRUCTURE DATA

DATE EFFECTIVE: 12-01-2008
DATE PREPARED: 7/19/2012

903.12Y