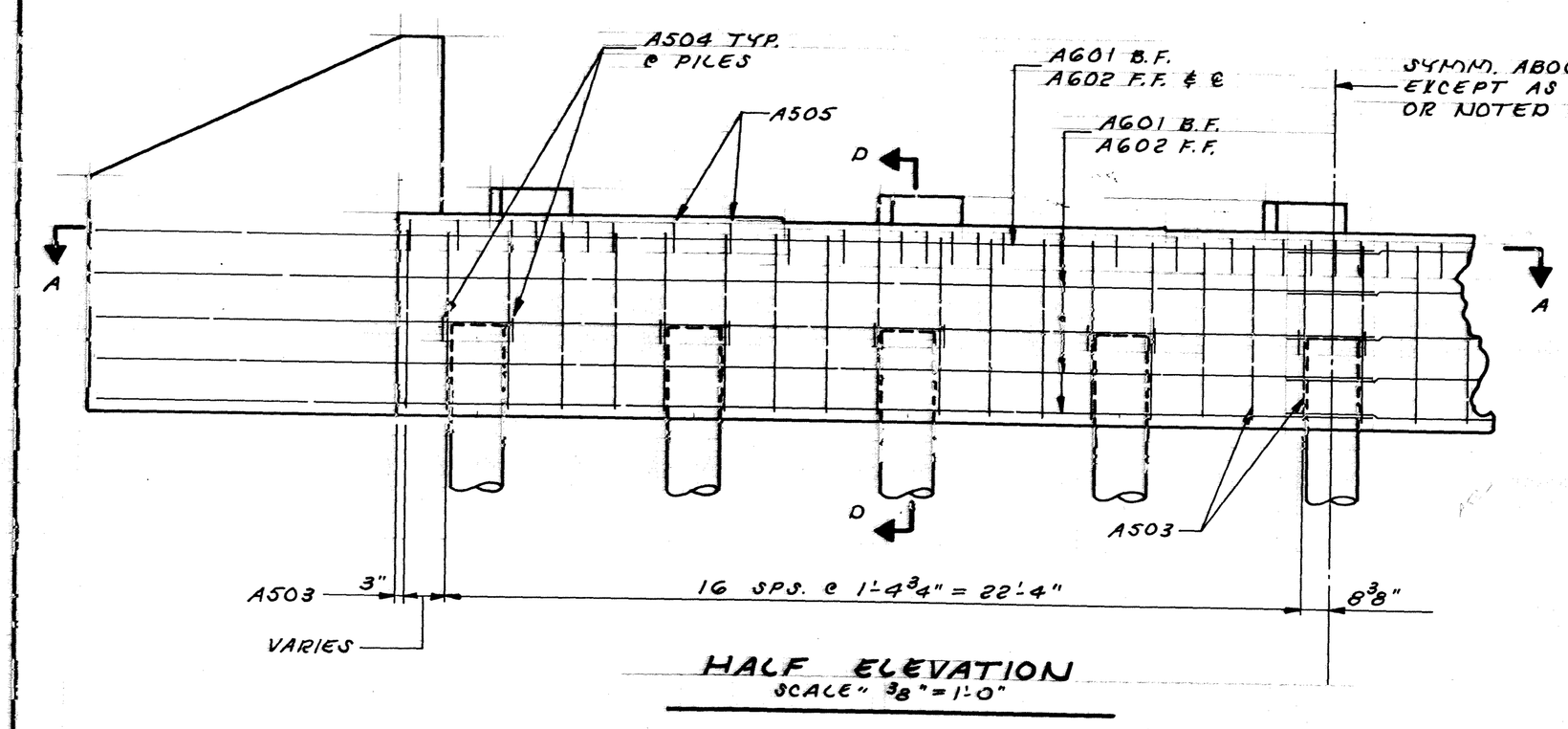
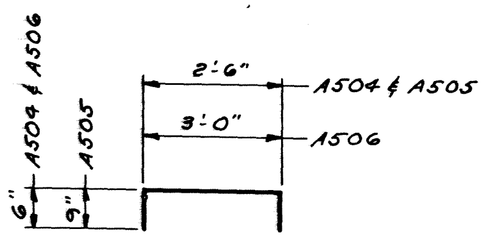
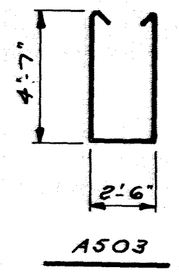


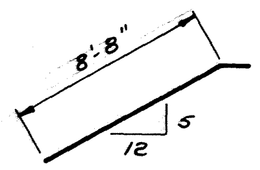
HALF ELEVATION
SCALE: 3/8" = 1'-0"



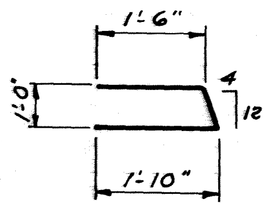
A504, A505 & A506



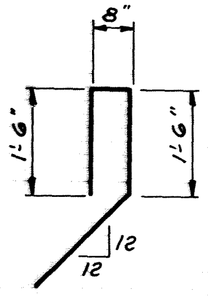
A503



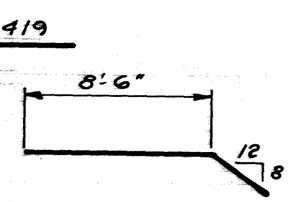
A518



A419



A408



A609

BILL OF REINFORCEMENT ~ 2 ABUTMENTS				
BAR	NO.	LGTH.	SHAPE	LOCATION
(2) A601	20	33'-3"	STR.	CAP ~ HORIZONTAL
(2) A602	24	25'-3"	"	" "
A503	72	18'-7"	BENT	" ~ STIRRUP
A504	36	3'-6"	"	" ~ TIE @ PILES
A505	90	4'-0"	"	" " @ BRIDGE SEAT
A506	40	4'-0"	"	" " @ SHEAR BLOCK
A507	40	1'-8"	STR.	SHEAR BLOCK
A408	40	7'-0"	BENT	" "
A609	12	10'-9"	"	WINGWALL ~ HORIZONTAL
A610	8	10'-1"	STR.	" "
(1) A511	16	14'-4"	"	" ~ VERTICAL
(1) A612	16	14'-4"	"	" "
A513	4	9'-3"	"	" "
A614	4	9'-3"	"	" "
A515	4	6'-6"	"	" "
(1) A616	6	9'-10"	"	" ~ HORIZONTAL
(1) A517	6	9'-10"	"	" "
A518	8	9'-1"	BENT	"
A419	16	4'-5"	"	" ~ TIE
A520	4	8'-3"	STR	" ~ HORIZONTAL
A621	4	8'-3"	"	" "

(1) CUT @ FROM 1

(2) 2'-3" MIN. LAP

COMPUTED PILE LOADS TONS PER PILE AT ABUTMENTS	
NEGATIVE FRICTION	10.0
DEAD LOAD	28.2
LIVE LOAD	9.3
TOTAL	47.5

PILE NOTES:

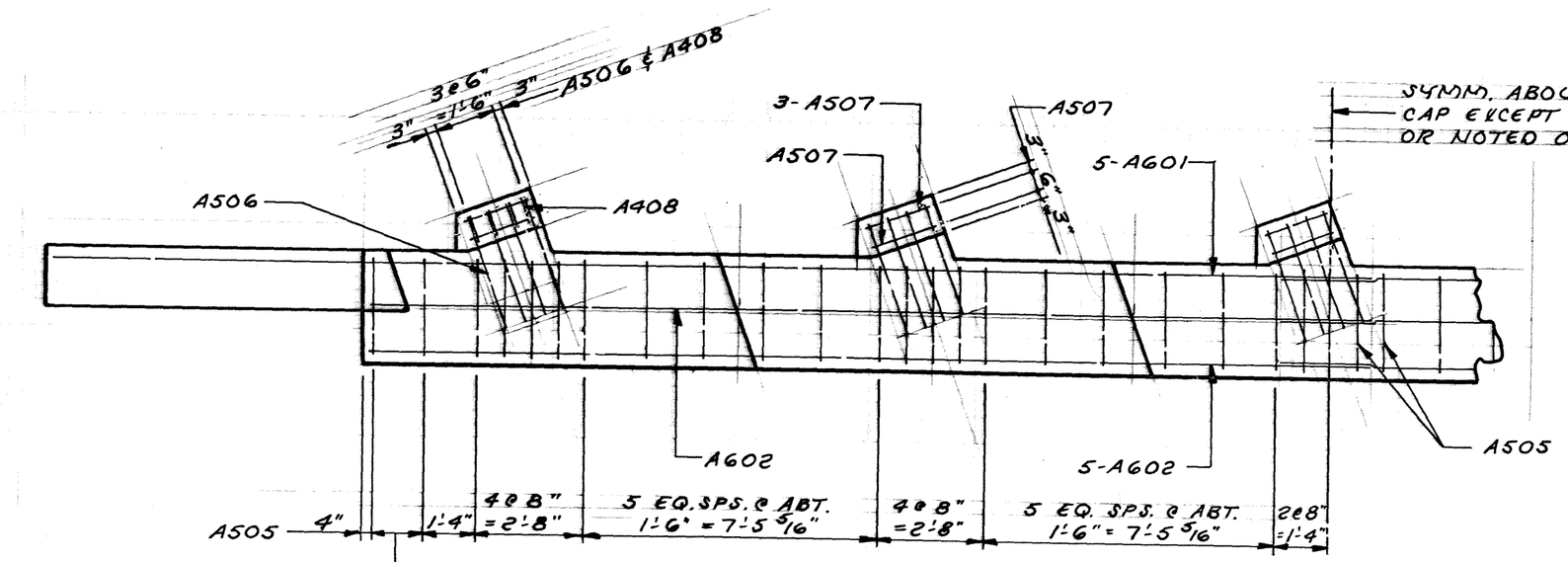
16- CAST-IN-PLACE CONCRETE PILES, EST. LENGTH 55 FT.

2- CAST-IN-PLACE CONCRETE TEST PILES, 65 FT. LONG

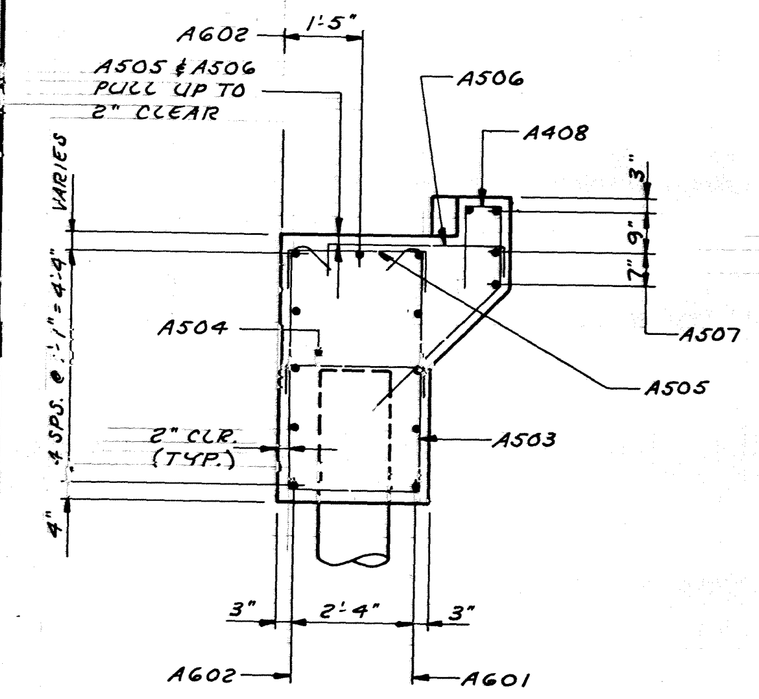
18- CAST-IN-PLACE CONCRETE PILES REQ'D ~ 2 ABUTMENTS

ALL PILES ARE TO HAVE A NOMINAL DIAMETER OF 16"

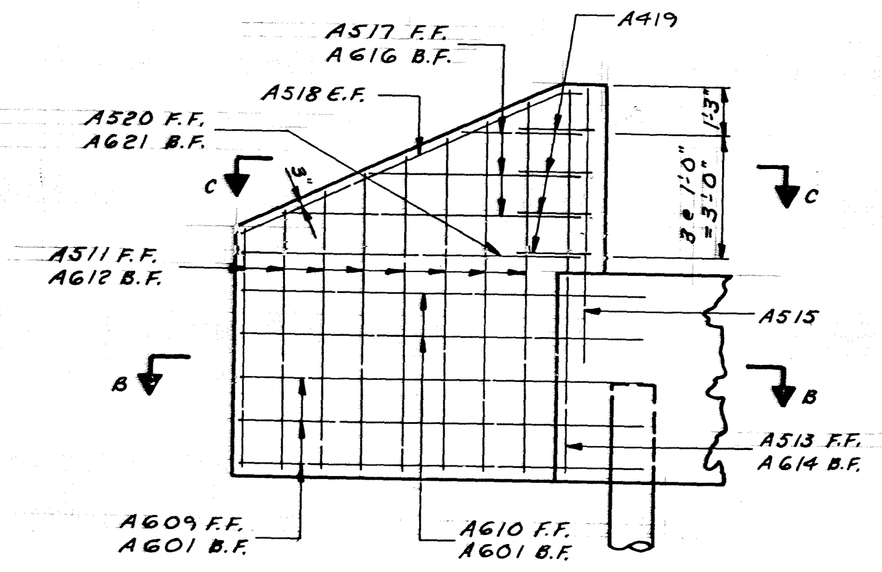
SEE DETAIL B201 FOR SPLICES.



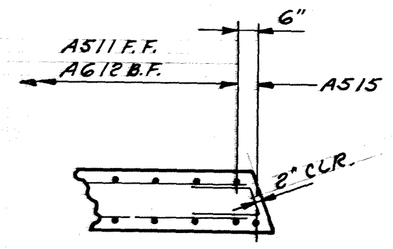
HALF PLAN
SCALE: 3/8" = 1'-0"



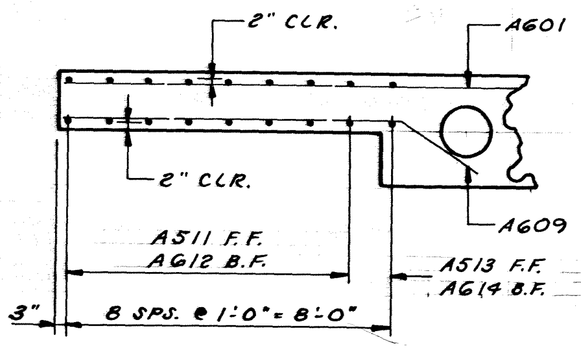
SECTION D-D
SCALE: 3/8" = 1'-0"



WING ELEVATION
SCALE: 3/8" = 1'-0"



SECTION C-C
SCALE: 3/8" = 1'-0"



SECTION B-B
SCALE: 3/8" = 1'-0"

SUMMARY OF QUANTITIES ~ 2 ABUTMENTS	
STRUCTURE CONCRETE (3443)	70 CU. YD.
REINFORCEMENT BARS	5170 POUND
(3) STRUCTURE EXCAVATION	1 LUMP SUM
(4) B.M. DISK (SEE STANDARD # 9300)	
(5) CAST-IN-PLACE CONC. PILING DELV'D. (16")	880 LIN. FT.
(5) CAST-IN-PLACE CONC. PILING DRIVEN (16")	880 LIN. FT.
CAST-IN-PLACE CONC. TEST PILES, 65' LG. (16")	2 EACH

(3) SEE SPECIAL PROVISIONS.

(4) COUNTY WILL FURNISH DISK. PAYMENT FOR PLACING IS TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS. SEE STANDARD PLATE 9301 FOR PLACING.

(5) DOES NOT INCLUDE TEST PILES.

NOTE:

F.F. = FRONT FACE
B.F. = BACK FACE
E.F. = EACH FACE

MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 02548

ABUTMENT REINFORCEMENT

APPROVED: 5-6-87

S.A.P. 02-622-20

SHEET 54 OF 64 SHEETS

02548 | RNT | RRT