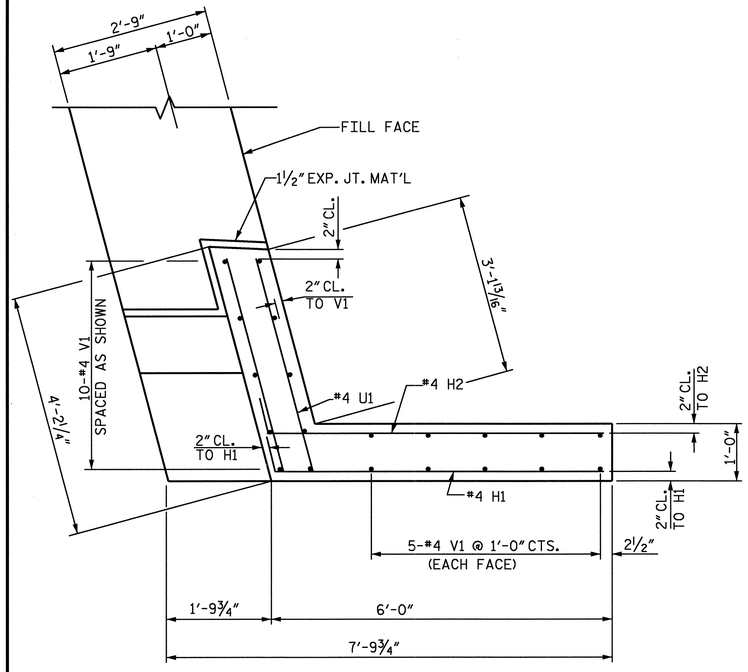
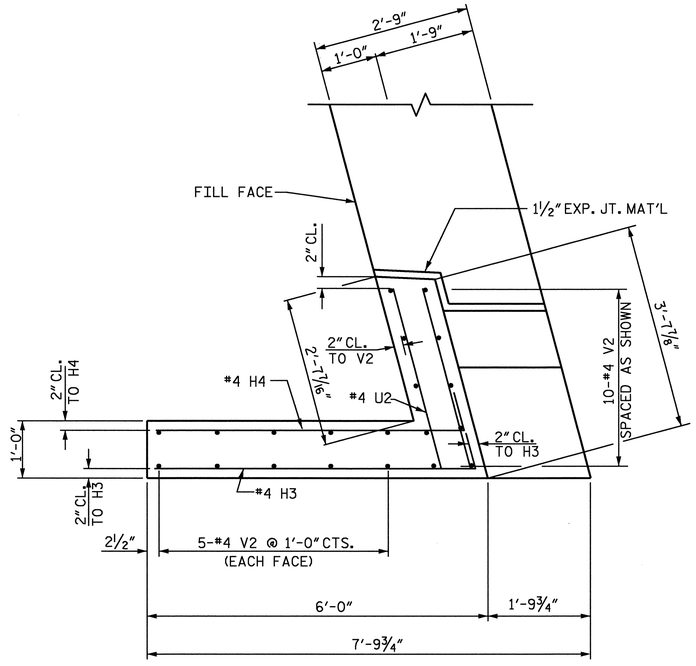
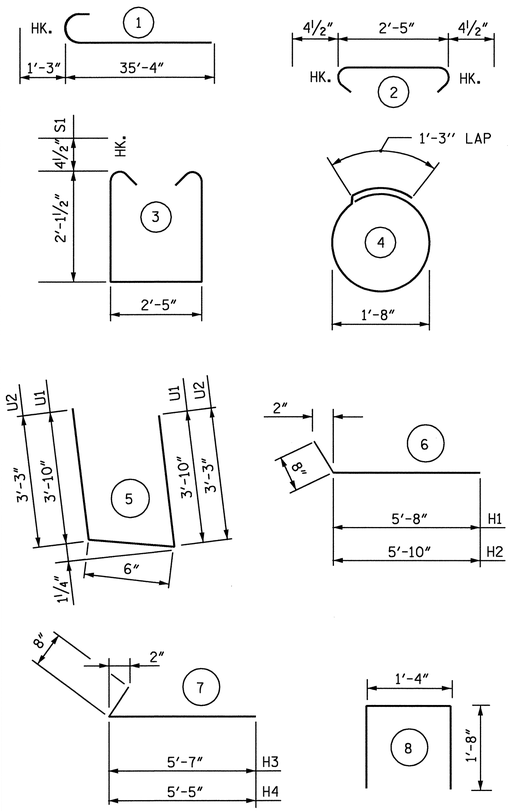


PLAN OF WING W1



PLAN OF WING W2

BAR TYPES



(ALL BAR DIMENSIONS ARE OUT TO OUT.)

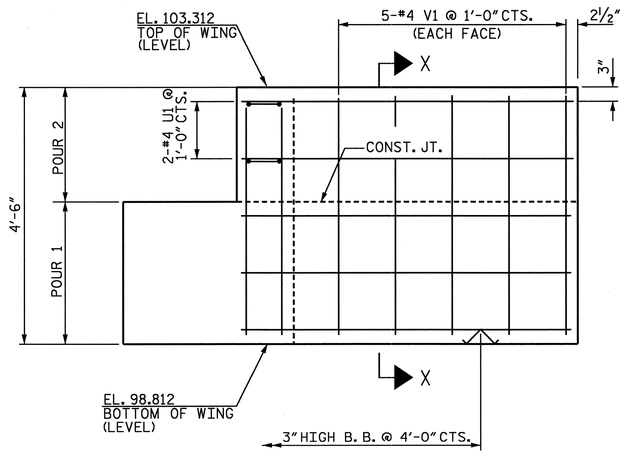
BILL OF MATERIAL

END BENT 1

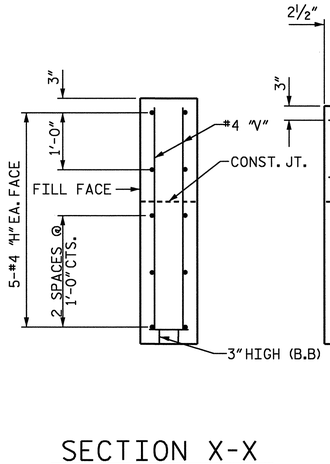
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#9	1	36'-7"	1990
B2	8	#5	STR	32'-5"	270
B3	12	#4	STR	22'-3"	178
B4	16	#4	STR	2'-5"	26
D1	36	#6	STR	1'-6"	81
H1	5	#4	6	6'-4"	21
H2	5	#4	6	6'-6"	22
H3	5	#4	7	6'-3"	21
H4	5	#4	7	6'-1"	20
S1	64	#4	3	7'-5"	317
S2	64	#4	2	3'-2"	135
S3	22	#4	4	6'-6"	96
U1	2	#4	5	8'-2"	11
U2	2	#4	5	7'-0"	9
U3	4	#4	8	4'-8"	12
V1	20	#4	STR	4'-1"	55
V2	20	#4	STR	3'-9"	50

REINFORCING STEEL = 3314 LBS.
CLASS A CONCRETE
POUR 1 CAP & LOWER PART OF WINGS 16.8 C.Y.
POUR 2 UPPER PART OF WINGS 1.2 C.Y.
POUR 3 LATERAL GUIDE 0.1 C.Y.
TOTAL 18.1 C.Y.

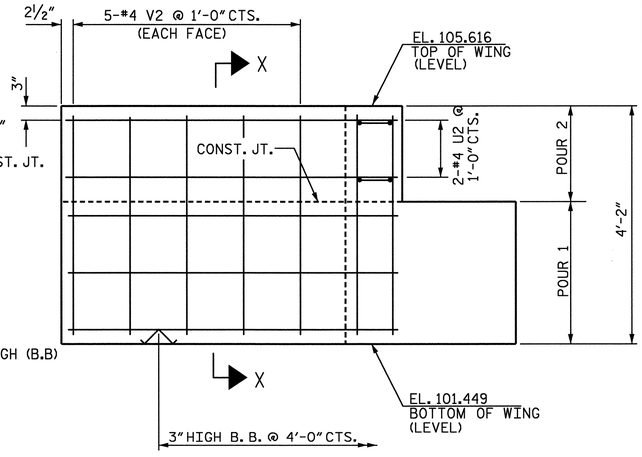
HP 12 X 53 STEEL PILES NO.=11 (LIN. FT.) 248



ELEVATION OF WING W1



SECTION X-X



ELEVATION OF WING W2

WBS. NO. 37017
WAKE COUNTY
STATION: 14+04.00 -L-
REPLACES BRIDGE NO. 133
SHEET 3 OF 3

NORTH CAROLINA PROFESSIONAL SEAL 22072 ENGINEER JOHN ARTHUR DILWORTH
12-21-05
ETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT 1

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-16
1			1			TOTAL SHEETS
2			2			23

DRAWN BY: J PENDERGRAFT DATE: 4-05
CHECKED BY: J DILWORTH DATE: 4-05

p:\4100\MA05001B\Structures\DWG\endbent1.dgn
12/21/2005 10:05:03 AM