

REINFORCING FOR 2 HEADWALLS - 2\*217.25

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
108	16	3.33	▲	HI602	STR	3.33						
96	16	2.77	▲	HI603	STR	2.77						
52	16	1.18	▲	HI604	STR	1.18						
66	16	4.22	▲	HI605	STR	4.22						
68	22	1.99		H2201	STR	1.99						
52	16	2.10	▲	HI606	IT		0.92	1.18	---			
108	16	1.64	▲	HI607	22		0.66	0.98	---	0.47	---	0.47
52	16	1.32		HI601	S10		0.50	0.32	0.50			

REINFORCING FOR 2 HEADWALLS - 2\*483.00

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
108	16	3.52	▲	HI602	STR	3.52						
96	16	2.72	▲	HI603	STR	2.72						
52	16	1.18	▲	HI604	STR	1.18						
66	16	4.27	▲	HI605	STR	4.27						
68	22	1.99		H2201	STR	1.99						
52	16	2.10	▲	HI606	IT		0.92	1.18	---			
42	16	1.69		HI608	IT		0.66	1.03	---			
108	16	1.64	▲	HI607	22		0.66	0.98	---	0.47	---	0.47
52	16	1.32		HI601	S10		0.50	0.32	0.50			

REINFORCING FOR 2 HEADWALLS - 3\*148.50

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
108	16	3.33	▲	HI602	STR	3.33						
92	16	2.72	▲	HI603	STR	2.72						
52	16	1.18	▲	HI604	STR	1.18						
66	16	4.22	▲	HI605	STR	4.22						
68	25	1.99		H2201	STR	1.99						
52	16	2.10	▲	HI606	IT		0.92	1.18	---			
108	16	1.64	▲	HI607	22		0.66	0.98	---	0.47	---	0.47
52	16	1.32		HI601	S10		0.50	0.32	0.50			

REINFORCING FOR 2 HEADWALLS - 3\*627.50

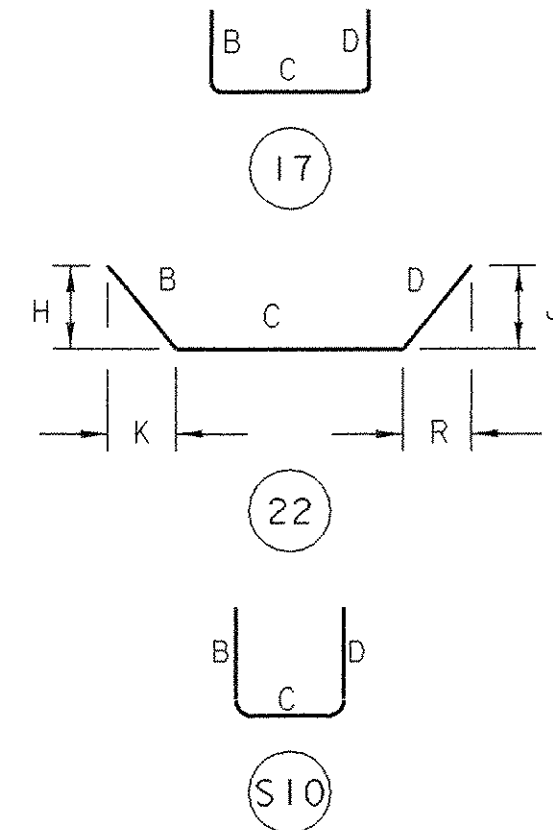
NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
104	16	3.52	▲	HI602	STR	3.52						
84	16	2.72	▲	HI603	STR	2.72						
52	16	1.18	▲	HI604	STR	1.18						
66	16	4.27	▲	HI605	STR	4.27						
68	22	1.99		H2201	STR	1.99						
52	16	2.10	▲	HI606	IT		0.92	1.18	---			
42	16	1.69		HI608	IT		0.66	1.03	---			
108	16	1.64	▲	HI607	22		0.66	0.98	---	0.47	---	0.47
52	16	1.32		HI601	S10		0.50	0.32	0.50			

REINFORCING FOR 2 HEADWALLS - 6\*189.25

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
112	16	3.33	▲	HI602	STR	3.33						
92	16	2.82	▲	HI603	STR	2.82						
52	16	1.18	▲	HI604	STR	1.18						
66	16	4.22	▲	HI605	STR	4.22						
68	22	1.99		H2201	STR	1.99						
52	16	2.10	▲	HI606	IT		0.92	1.18	---			
108	16	1.64	▲	HI607	22		0.66	0.98	---	0.47	---	0.47
52	16	1.32		HI601	S10		0.50	0.32	0.50			

REINFORCING STEEL NOTES

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENT OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- "J" DIMENSION ON 180 DEGREE HOOKS ARE TO BE SHOWN ONLY WHEN NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS ARE TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.

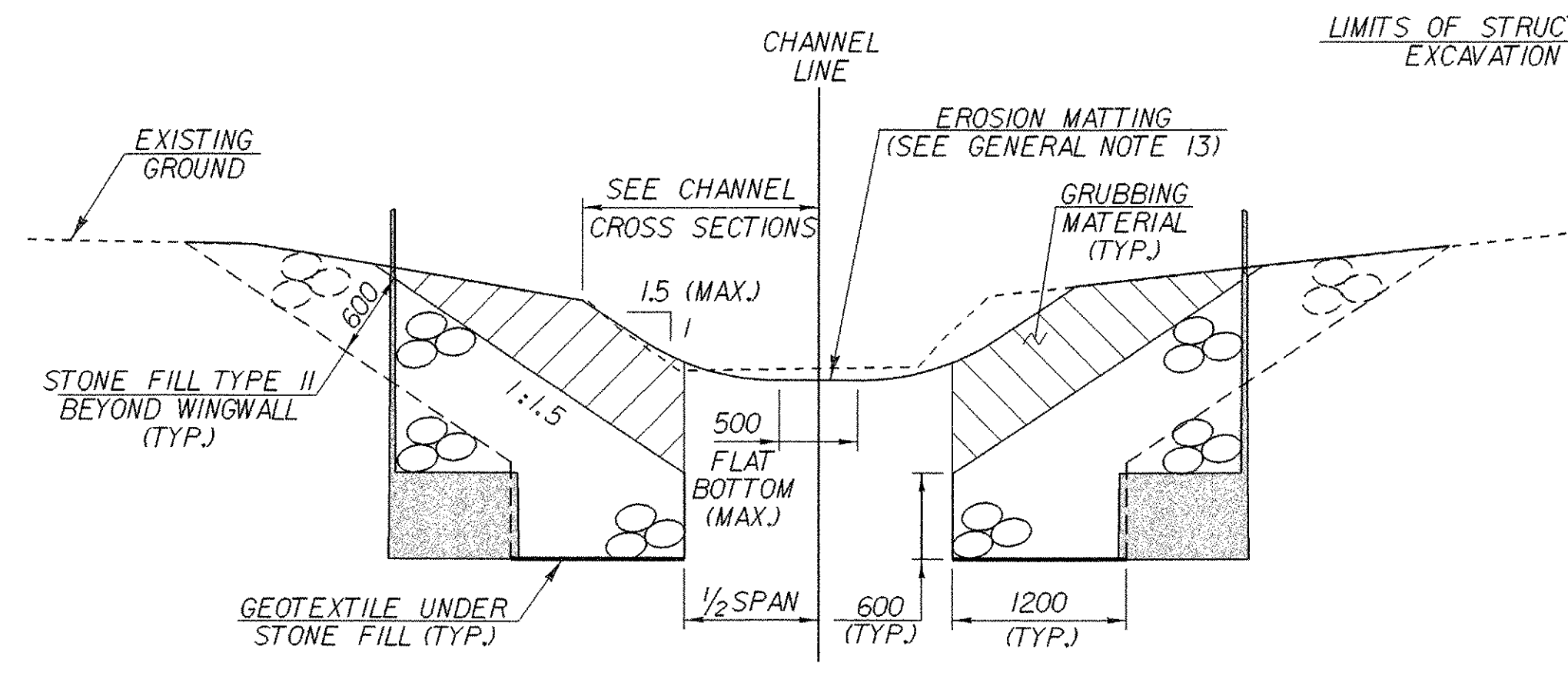
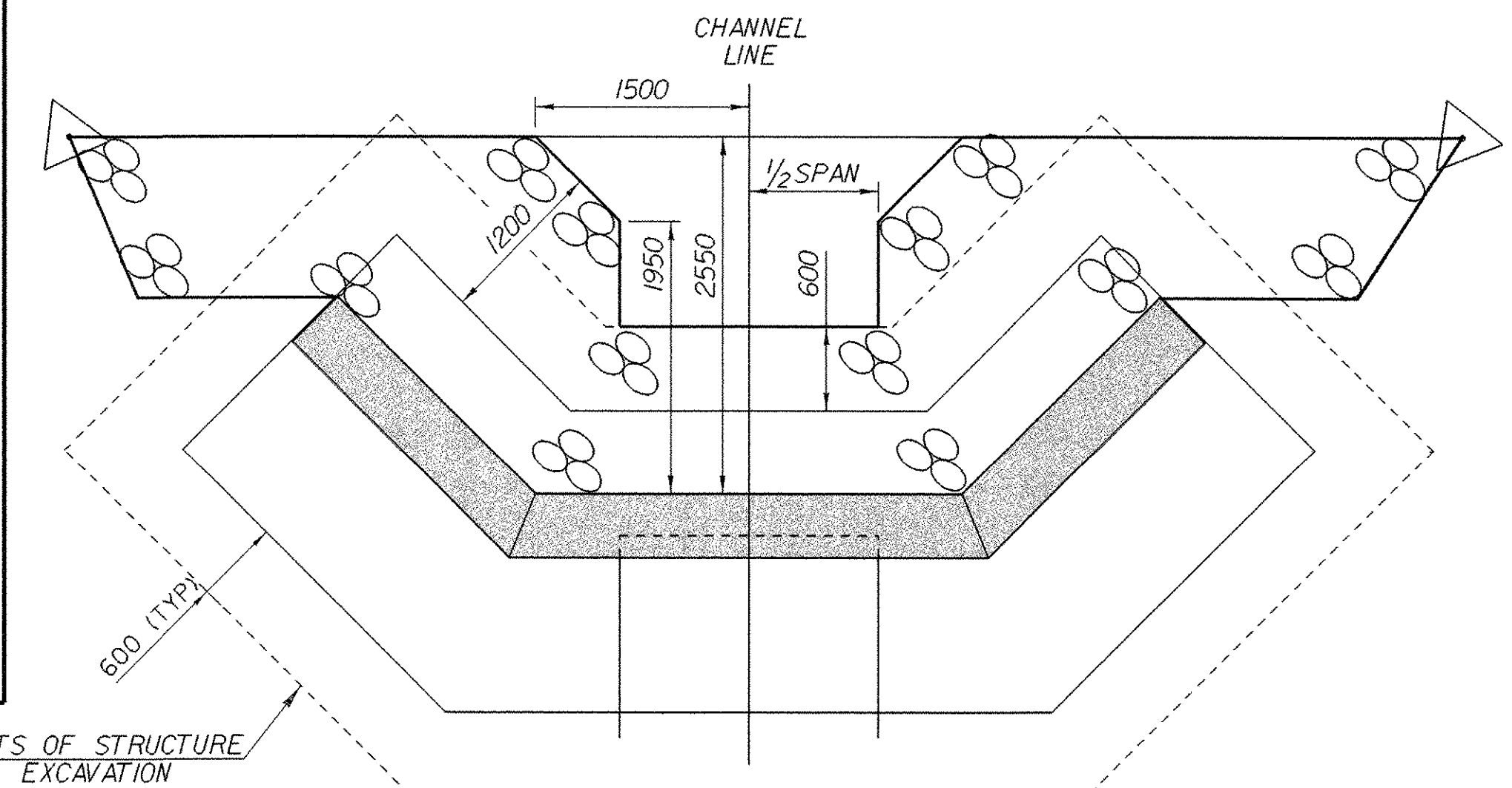
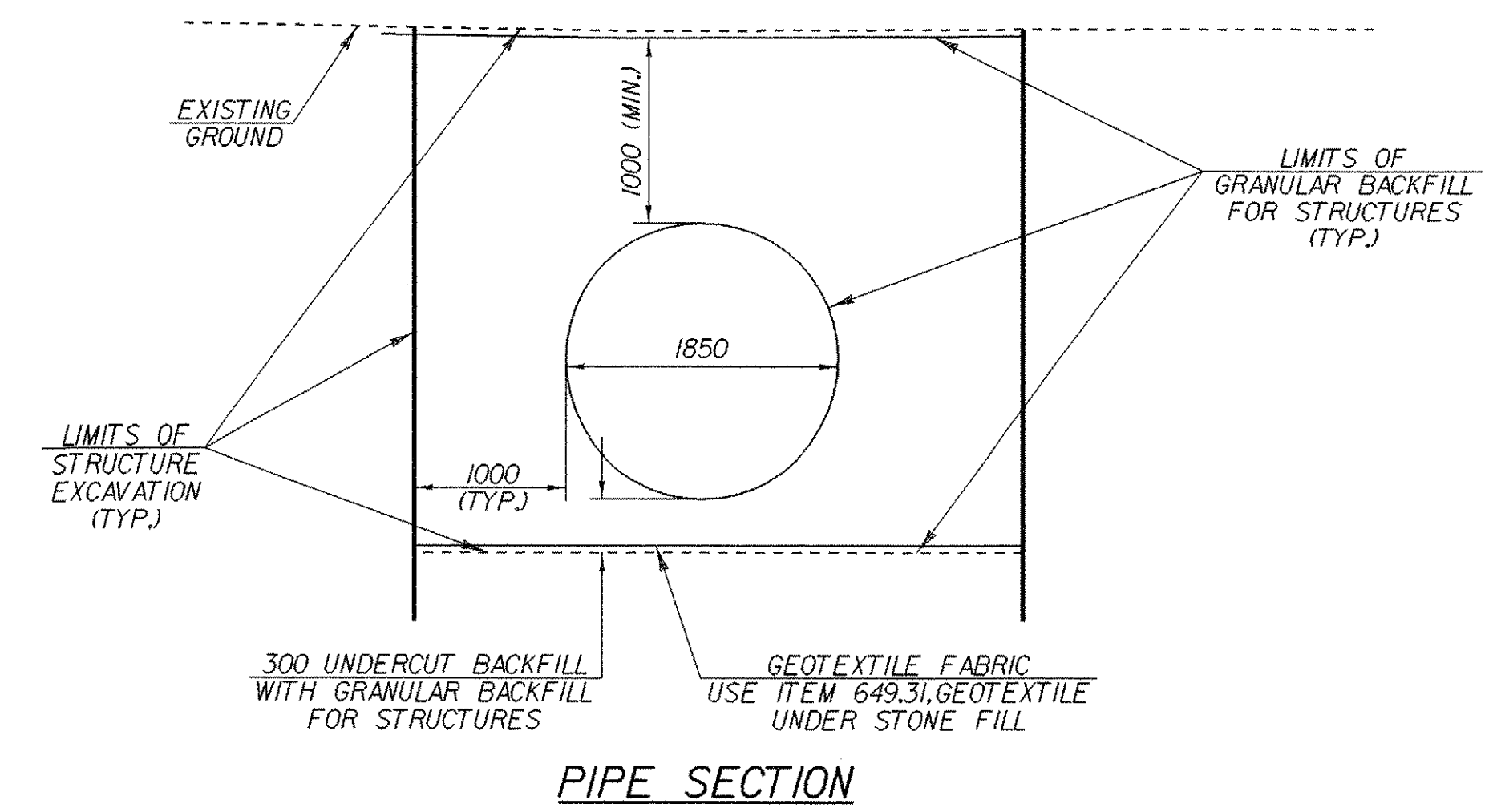
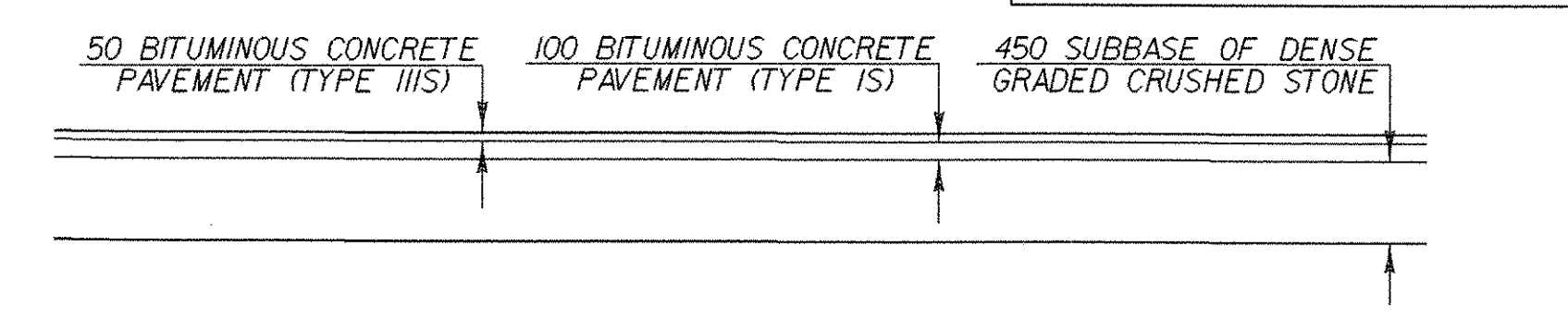


REINFORCING FOR 2 HEADWALLS - 8\*744.00

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
124	16	3.33	▲	HI602	STR	3.33						
92	16	2.77	▲	HI603	STR	2.77						
52	16	1.18	▲	HI604	STR	1.18						
66	16	4.22	▲	HI605	STR	4.22						
68	22	1.99		H2201	STR	1.99						
52	16	2.10	▲	HI606	IT		0.92	1.18	---			
108	16	1.64	▲	HI607	22		0.66	0.98	---	0.47	---	0.47
52	16	1.32		HI601	S10		0.50	0.32	0.50			

NOTE:

- NF = NEAR FACE
- FF = FAR FACE
- EF = EACH FACE
- ▲ = CUT TO FIT IN FIELD
- 80 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- REINFORCING STEEL LENGTHS IN METERS
- CUT BAR LENGTHS REUSED IN APPROPRIATE PLACES



NOTE: ALL EXCAVATION REQUIRED TO CONSTRUCT THE CHANNEL WHICH IS OUTSIDE OF THE LIMITS OF STRUCTURE EXCAVATION SHALL BE PAID AS ITEM 203.27, UNCLASSIFIED CHANNEL EXCAVATION.

RADIUS VARIES BETWEEN CHANNEL BOTTOM AND SIDES AND IS NOT DIMENSIONED, AS DRAWN IT IS ONLY MEANT TO APPROXIMATE FINAL CONDITIONS FOR THE PURPOSE OF ESTIMATING QUANTITIES.

TYPICAL CHANNEL SECTION

REINFORCING SCHEDULE SHEET

PROJECT NAME: HIGHGATE-FRANKLIN	PLOT DATE: 09-MAY-2005
PROJECT NUMBER: STP RS 030(I)SA	DRAWN BY: R. PELLETT
FILE NAME: /85c060/str/s85c060ww.dgn	CHECKED BY: G. SPILAK
PROJECT LEADER: S. FARNSWORTH	SHEET 235 OF 450
DESIGNED BY: M. FOWLER	
sc060rein.i	