



HEADWALL FOR CONCRETE PIPE						
CIRCULAR						
D (MM)	V (H)	H (H)	T (MM)	CONCR CU M	WEIGHT (KG)	
300	.61	.91	300	.13	367	
375	.76	.97	300	.19	459	
450	.91	.99	300	.24	578	
525	1.07	1.02	300	.28	688	
600	1.22	1.07	300	.33	790	
675	1.37	1.12	300	.37	900	
750	1.52	1.14	300	.43	1029	
825	1.68	1.17	300	.47	1139	
900	1.83	1.22	300	.53	1268	
975	1.98	1.27	300	.59	1415	
1050	2.13	1.30	300	.64	1543	
1200	2.44	1.37	350	.83	2087	
1350	2.82	1.45	350	1.01	2425	
1500	3.20	1.68	400	1.48	3546	
1650	3.58	1.75	450	1.85	4446	
1800	3.96	1.83	450	2.12	5089	

- NOTES:
1. PRECAST CONCRETE 4800 PSI - 28 DAY STRENGTH - AIR 63.25.
  2. CONCRETE QUANTITIES ARE BASED ON HEADWALLS WITHOUT THE 150 MM EXTENSION WHICH MAY BE REQUIRED WITH INLET CHANNEL PROTECTION.
  3. OUTSIDE DIAMETER OF PIPE TYPE BELL + 25 MM - INLET ONLY.
  4. PICK-UP HOOKS AS SHOWN FOR D = 750 MM OR LARGER.
  5. PICK-UP HOOKS TO BE 15 MM GALVANIZED CABLE FOR D = 675 MM OR SMALLER.
  6. GROUT TO BE NON-SHRINK GROUT AS SPECIFIED BY ODOT 705.22 BY OTHERS.
  7. OPENING TO BE FILLED WITH GROUT AFTER INSTALLATION BY OTHERS.

STRUCTURAL ENGINEERING

*Bud Fayell* Administrator

APPROVED	
APPROVED AS NOTED	
NOT APPROVED	

for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

Rev.	01-09-98
Rev.	01-05-95
Rev.	07-29-94
Rev.	02-11-94

**Norwalk Concrete Industries**  
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**PRECAST CONCRETE**  
 ODOT STANDARD  
 HW - 4B HEADWALL  
 METRIC

DATE: 06-25-92  
 DRAWING NO: C-2115-92 M  
 SHEET: 1