



TRUE COPY
28/3/11/07
Deputy Superintending Engineer
H.N.S.S. Circle, ANANTAPUR

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.FOLLOW FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.
2. BACK FILLING SHALL BE DONE SIMULTANEOUSLY WITH THE RAISING OF THE WINGS & RETURNS USING SOLLS WITH ANGLE OF REPOSE NOT LESS THAN 28° AND PERMEABILITY COEFFICIENT 'K' VALUE NOT MORE THAN 3M/YEAR.
3. THE MAXIMUM STRESSES ON FOUNDATION STRATA WORKED OUT FOR THE WINGS & RETURNS ARE SHOWN IN STRATA. IF THE FOUNDATION STRATA WITHIN DURING EXECUTION IS INFERIOR AND CANNOT TAKE THE DESIGND STRESSES, THE SECTIONS ARE TO BE SUITABLY REVISED.

STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		AT BASE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	U/S HEAD WALL	12.955	3.601	-	-
2	D/S HEAD WALL	12.955	3.601	-	-
3	WING WALL AT JUNCTION WITH HEAD WALL (U/S)	27.421	(-) 3.065	20.118	3.964
4	RETURN WALL U/S	32.967	-6.340	23.814	2.222
5	WING WALL AT DOWN STREAM	34.578	(-) 9.819	23.354	0.565
6	RETURN WALL D/S	21.999	(-) 5.950	13.135	2.567
7	BOX (UNDER EARTH BANK)	-	-	15.156	-
8	BOX (UNDER CANAL TROUGH)	-	-	7.968	-

CONCRETE SPECIFICATIONS

S.NO.	PARTICULARS	GRADE OF CEMENT CONCRETE AS PER IS:456-2000	MAX.SIZE OF GRADED COARSE AGGREGATE AS PER IS:383
A	APRON	CC M15 GRADE	40 MM
B	WINGS, RETURNS, HEAD WALLS, DROP WALLS & FOUNDATIONS	CC M15 GRADE	40 MM
C	WEARING COAT OVER APRON FLOOR	CC M20 GRADE	20 MM
D	SEALING COAT	CC M25 GRADE	20 MM
E	BOX	RCC M20 GRADE	20 MM

APPROVED
Sd/- (Dt 24.11.2006)
(I.S.N. RAJU.)
CHIEF ENGINEER
CENTRAL DESIGNS ORGANISATION
HYDERABAD

// t.c.f //

EXECUTIVE ENGINEER
CANALS - II DIVISION
CENTRAL DESIGNS ORGANISATION
HYDERABAD.

REFERENCE DRAWINGS

1. DRAWING NO. HN55/BB/UT/156.200/001/2006 - GENERAL PLAN AND SECTIONAL ELEVATIONS
2. DRAWING NO. HN55/BB/UT/156.200/003/2006 - R.C.C. DETAILS OF BOX

REVISION NO:		DRAWN	CHECKED	APPROVED	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT				
PROJECT	HANDRI NIVA SUJALA SRAVANTHI MAIN CANAL				
TITLE	UNDER TUNNEL KM. 156.200 HEAD WALLS, WINGS, RETURNS & DROP WALL				
CONTRACTORS	BACKBONE PROJECTS LIMITED HYDERABAD				
	DRAWING NO:	SCALE		DATE	
	HNSS/BB/UT/156.200/ 002/2006	AS INDICATED			