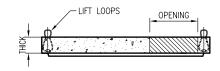


GENERAL DESIGN NOTES:

- STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.) ACI 318.
- APPLICABLE DESIGN DOCUMENTS (CURRENT EDITIONS):
- NCDOT STANDARD DRAWING # 840.45 (WAFFLE/NON TRAFFIC RATED) OR # 840.46(SOLID / TRAFFIC RATED).
- ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (MAIN DESIGN SPECIFICATION).
- ASTM C890 STANDARD PRACTICE FOR MINIMUM STRUCTURAL LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES (LOADING SPECIFICATION)
- ASTM C913 STANDARD SPECIFICATION FOR PRECAST CONCRETE & WATER & WASTEWATER STRUCTURES.
- MAX DEPTH TO INVERT OF PRECAST (I.E. FLOOR) = 15' FOR SOLID BASE & 10' FOR WAFFLE BASE.
- GWT ASSUMED BELOW INVERT OF PRECAST.
- LATERAL DESIGN PRESSURES (AS APPLICABLE TO DESIGN):
 - EQUIV DRY SOIL FLUID PRESSURE = 47 PCF.
- EQUIV SATURATED SOIL FLUID PRESSURE = 85 PCF.
- LIVE LOAD SURCHARGE = 80 PSF.
- DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 4,000 PSI (MIN).
- REINFORCEMENT:
 - CARBON-STEEL DEFORMED BARS: ASTM A615, fy = 60KSI (MIN).
- WELDED WIRE REINFORCEMENT (DEFORMED): ASTM A1064 fy = 70 KSI (MIN).
- COPOLYMER POLY PROPYLENE STEEL REINFORCED STEPS I.A.W ASTM C478 SPACED 16" O.C.
- PRECAST BASE AND RISER SECTIONS MAY BE USED FOR THE FOLLOWING DOT STANDARDS AS NOTED ON NCDOT STANDARD DRAWING:
 - WAFFLE BOX (NCDOT#840.45): 840.01, 840.20, 8940.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19,
 - 840.26, 840.27, 840.28, 840.28, 840.31, 840.32 & 840.41.
 - SOLID BOX (NCDOT #840.46):
 - 840.04, 840.05, 840.14, 840.31, 840.32, 840.34, 840.35, 840.36, & 840.41.
 MIN 4" BEAM FOR OPENINGS IN WALL & 6" BEAM FOR CORNER HOLES PER NC DOT.
- LIFT LOOPS, PINS OR UTILITY ANCHORS PROVIDED FOR HANDLING. CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING OLDCASTLE PRECAST, INC. LIFTING INSTRUCTIONS AS SHOWN ON BACK OF SHIPPING TICKET.

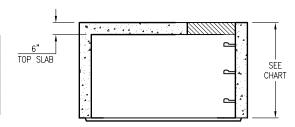
TOP SLAB

THICKNESS	WEIGHT (lbs)
6"	4,457
8"	5,682



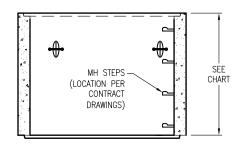
RETURN TOP

HEIGHT	WEIGHT (lbs)
1.5'	5,732
2.5'	7,682
3.5'	9,632
4.5'	11,582
5.5'	13,532



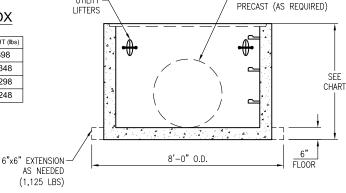
RISER SECTION

HEIGHT	WEIGHT (lbs)
1.33'	2,573
2.67'	5,186
4.00'	7,780
5.00'	9,730
6.00'	11,680



SOLID BOX

HEIGHT	WEIGHT (lbs)
3.5'	9,398
4.5'	11,348
5.5'	13,298
6.5'	15,248



SCALE (TYP): 1/4" = 1'-0"

UTILITY

PIPE OPENINGS CAST INTO

	APPROVED W/ NO EXCEPTIONS TAK APPROVED AS NOT REVISED AND RESUB	ED:
SIGNATURE		DATE
	Oldcastle	Precast
	1431 PRODUCT RD, FUQUAY VARINA, NC OFFICE 919-552-2252, FAX 844-866-7476	NC ENGINEERING LICENSE #F-1002
SUBMITTED FOR TO THE INTERES	1431 PRODUCT RD, FUQUAY VARINA, NC	NC ENGINEERING LICENSE #F-1002 IT IS CONFIDENTIAL, E USED IN ANY WAY INJURIO F OLDCASTLE PRECAST, INC

DRAWN

PPS

6x6 DRAINAGE BOXES

08/04/17

ENGINEER

CHECKED

REV DATE

SALES ORDER

1 OF