

USE QUANTITIES FOR LEVEE, EXCAVATION, RIPRAP, ETC. FROM LAST PLAN (7,000 cfs). KEEP STRUCTURAL EXCAVATION AND BACKFILL THE SAME. THE ONLY CHANGES RESULT FROM RAISING THE WALLS FROM 1-1 1/2' BECAUSE OF INCREASED PUMPING CAPACITY. THE PENETRATION OF THE STEEL SHEET PILING ALSO HAS TO BE INCREASED.

ORLEANS PARISH SIDE (N. OF HAMMOND HWY)
546 TO 552+60

✓ REINFORCED CONC CAP

$[4 \times 2 + (\frac{2.5}{2} \times 7)] 713 \times \frac{1}{27} = 442.3 \text{ C.Y.}$

✓ PZ-38 STEEL SHEET PILING (ADD 5' 11" WALL)

$(49' \times 713') = 34,937 \text{ D'}$

✓ 3-BULB WATERSTOP

$\frac{713}{30} \times 11 = 261.4 \text{ L.F.}$

PROPPED WALL (CAPPED SHEET PILING)

- ✓ REINFORCED CONC. 11.2 C.Y.
- ✓ PZ-27 STEEL SHEET PILING 4305.5 D'
- ✓ TIMBER PILES 1245 L.F.
- ✓ 10" x 10" TIMBER WALES 176 L.F.
- ✓ STRUCTURAL STEEL 650 #

STRUCTURAL EXCAVATION & BACKFILL : SEE TOTALS

Alt. Study for HLP, No Drainage Imp.

19 Jan 84

ORLEANS & JEFF. PARISH SIDES (S. OF HAMMOND HWY)

~ 554 TO 589 (~5588 L.F.)

(STA 0 TO 30+00) TO EL. 14.5 NGVD.

REINFORCED CONCRETE

$$2 \times \left(2 \times 4 + \frac{2.5}{2} \times 7 \right) 5588 \times \frac{1}{27} = 6933.3 \text{ C.Y.}$$

P2-38 STEEL SHEET PILING

$$2(49' \times 5588) = 547,624 \text{ sq'}$$

3- BULB WATERSTOP

$$2 \left[\frac{5588}{30} \times 11' \right] = 4097.9 \text{ L.F.}$$

STRUCTURAL EXCAVATION & BACKFILL: SEE TOTALS

STA 589 → 635 FLOODWALL TO EL. 15.5 NGVD (30+00 TO 84+00)

589-614 (2500')REINFORCED CONC

$$2 \left[(4 \times 2) + \left(\frac{2.5}{2} \times 7 \right) \right] 2500' \times \frac{1}{27} = 3101.9 \text{ C.Y.}$$

P2-27 STEEL SHEET PILING (ADD 4' / 1' WALL)

$$(44' \times 2500') 2 = 220,000 \text{ sq'}$$

3- BULB WATERSTOP

$$2 \left(\frac{2500}{30} \times 11' \right) = 1833.3 \text{ L.F.}$$

STRUCTURAL EXCAVATION & BACKFILL: SEE TOTALS

ORLEANS & JEFF PARISH SIDES (SOF HAMMOND HWY)
614 TO 625 (1100')

REINFORCED CONCRETE

$$2 \left[(4 \times 2) + \left(\frac{2.5}{2} \times 6 \right) \right] 1100 \times \frac{1}{27} = 1263.0 \text{ C.Y.}$$

PZ-22 STEEL SHEET PILING (ADD 3'/1' WALL)

$$2 (26 \times 1100') = 57,200 \text{ sq'}$$

3-BULB WATERSTOP

$$2 (1100 / 30 \times 10') = 733.3 \text{ L.F.}$$

625 TO 635 (1000')

REINFORCED CONCRETE

$$2 \left[(4 \times 2) + \left(\frac{2.5}{2} \times 6 \right) \right] 1000 \times \frac{1}{27} = 1148.1 \text{ C.Y.}$$

PZ-22 STEEL SHEET PILING (ADD 3'/1' WALL)

$$2 (28.6' \times 1000') = 57,200 \text{ sq'}$$

3-BULB WATERSTOP

$$2 \left(\frac{1000}{30} \times 10' \right) = 666.7 \text{ L.F.}$$

STRUCTURAL EXCAVATION & BACKFILLS: SEE TOTALS

Basin Relief Canal
Alt Study for HLP, No Drainage Imp.
19 Jan 84 LT

ORLEANS & JEFF PARISH SIDES (S. OF HAMMOND HWY.)

635 TO 670 (3500') FLOODWALL TO EL 16.0 NGVD. (84+00 TO 17+00)

REINFORCED CONCRETE

TO CONCUR WITH
OTHER ESTIMATES

$$2 \left[(4 \times 2) + \left(\frac{2.5}{2} \times 6.5 \right) \right] \times 3500 \times \frac{1}{27} = 4180.0$$

P2-22 STEEL SHEET PILING (ADD 2' / i WALL)

$$2 (12' \times 3500') = 84,000 \text{ D'}$$

3-BULB WATERSTOP

$$2 (3500 / 30 \times 6.5) = 1516.7 \text{ LF.}$$

STRUCTURAL EXCAVATION & BACKFILL: SEE TOTALS

Metairie Relief Canal
Alt. Study for HLP, No Drainage Imp.
19 JAN 84 LT

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TOTAL OF QUANTITIES

REINFORCED CONCRETE

$$442.3 + 11.2 + 6933.3 + 3101.9 + 1263.0 + 1148.1 + 4180.6 = 17,080.4 \text{ C.Y.}$$

PZ-27 STEEL SHEET PILING

$$4305.5 + 220,000 = 224,306 \text{ D'}$$

PZ-22 STEEL SHEET PILING

$$57,200 + 57,200 + 84,000 = 198,400 \text{ D'}$$

PZ-38 STEEL SHEET PILING

$$34,937 + 547,624 = 582,561 \text{ D'}$$

10" x 10" CREOSOTED TIMBER WALES

176 L.F.

STRUCTURAL STEEL (TIE-BACK SYSTEM)

650 #

TREATED TIMBER PILES

1245 L.F.

3- BULB WATER STOP

$$261.4 + 4097.9 + 1833.3 + 733.3 + 666.7 + 1516.7 = 9109.3 \text{ L.F.}$$

STRUCTURAL EXCAVATION

12,484 C.Y.

STRUCTURAL BACKFILL

8323 C.Y.