NOTE
ALL REINF. SHOWN IS TYPICAL AND APPLIES AT ALL SECTIONS OF DISCHARGE BASIN

KEY SLAB TO TOP OF WALL
REINF. SAME AS OTHER SIDE
#5 @ 6" O.C. BOTT. CONT. AND EXTEND 6' INTO SUPPORT WALL
#3 @ 10" O.C. TEMP. BARS
#6 @ 12" TOP
#6 @ 12" TOP AND VERT. BARS
KEY SLAB TO TOP OF WALL (THIS ELEV. DEPENDS UPON DIM. OF PUMP DISCH. HEAD)
14"x14" BEAM SEE DETAIL
WEIR - SEE SHEET #4
4-#9 VERT.
#3 TIES @ 12"
#7 @ 10" O.C. DOWELS 3'-6" LONG. DRILL & GROUT INTO EXIST CONC.
4-#9 DOWELS 3'-0" LONG DRILL & GROUT INTO EXIST CONC.
#7 @ 10" O.C. DOWELS 3'-6" LONG. DRILL & GROUT INTO EXIST CONC
EXIST GRADE
NEW GRADE 604.48
#6 @ 6" VERT. 0. FACE
#4 @ 12" VERT. I. FACE
#4 @ 12" HORIZ. EA. FACE
ALL HORIZ. BARS SHALL BE LAPPED 1'-0" MIN. AROUND ALL CORNERS
AS DETERMINED BY FIELD COND.
BOTTOM OF FOOTING TO BEAR ON FIRM SOIL. ANY WALLS OR OBSTRUCTIONS BELOW FOOTING TO BE REMOVED MIN. 2'-0" BELOW BOTTOM OF FOOTING AND COURSE SAND & GRAVEL WITH OPTIMUM COMPACTION SHALL BE USED AS FILL.

SECTION "A-A"
SCALE 1/4"=1'-0"

℄ COL.
CORR. SIDING
℄ SHAFT
℄ COL
"5 @ 10" O.C. TOP PERPENDICULAR TO SHAFT WALLS (THIS IS IN ADDITION TO SLAB REINFORCING IN THIS SECT.)
ALL SLABS ON FILL
1" PREMOLDED EXP. JOINT
2'-6" DIA.
EL 0'-00" (612.75)
#6 @ 6" VERT. O. FACE
#4 @ 12" VERT. I. FACE
#4 @ 12" HORIZ. EA. FACE
ALL HORIZ. BARS SHALL BE LAPPED 1'-0" MIN. AROUND ALL CORNERS
#4 @ 12" EW TYPICAL WALL REINF.
FILL
EXIST WALL
PUMP
EXIST SHAFT WALLS
TO BE DETERMINED BY FIELD CONDITIONS
ALL EXISTING PIERS AND WALLS TO BE REMOVED DOWN TO LEVEL OF BOTTOM OF FOOTING
EXIST. CONC. FOUND. BELIEVED TO BE HERE

NOTE
ELEVATION FOR TOP OF CONC. BEAM TO BE DETERMINED IN THE FIELD SO AS TO COME BELOW BASE SELECTED FOR COLUMN FOOTING ON SOUTH SIDE OF SHAFT. THIS BEAM TO BE POURED BEFORE WORK ON COL. FOOTING BEGINS
SLAB REINF. #5 @ 10" O.C. T & B
#4 @ 12" TEMP. - BOTT
PREMOLDED EXP. JOINT ALL AROUND
EL 0'-00" (612.75)
#4 @ 1' E.W.
ELEV. (SEE NOTE)
EXIST. WALL

SECTION "B-B"
SCALE 1/4"=1'-0"

SECTION THRU PUMP BASE PLATE
SCALE - 3/4"=1'-0"

5'-6" ℄ T&B
4'-11" ℄ BASE PL. T&B
4-1" ℄ CC BOLTS T&B
2'-6" DIAM.
BASE PL TO BE LEVELLED PERFECTLY BEFORE GROUTING
EMBECO OR EQUAL
1" ℄ BOLTS (DETAIL DWG "B")
NOTE: WRAP ALL BEAMS WITH 3x8-10/10 W.W.M.

SECTION C-C
SCALE 1/4"=1'-0"

℄ COL E-1
℄ COL E-2
℄ COL E-3
REINF IN WALLS TO BE #4 @ 12" E.W. (SEE SECT "A-A")
#4 @ 6" DOWELS FROM PIERS TO WALL
4-#6 VERT IN PIER FOR SHAPE
#3 STIRRUP - TYPICAL
12"-9" CONT.
#6 @ 6" CONT.
TO BE DETERMINED BY FIELD CONDITIONS
EXIST. WALL
#6 @ 12" BARS
NOTE: SEE DETAIL FOR COLUMN PIER REINF.

SECTION D-D
SCALE 1/4"=1'-0"

℄ COL A-1
℄ COL A-2
℄ COL A-3
REINF. IN WALLS TO BE #4 @ 12" EW (SEE SECT "A-A")
8-#9 CONT.
#3 STIRRUPS - TYPICAL
#6 @ 12" CONT.
10'E - SEE PLAN DWG "4 AND STEEL DETAIL ON DWG "5
TO BE DETERMINED BY FIELD CONDITIONS
SEE DETAIL FOR FOOTING OF THIS COLUMN A-1
EXISTING WALL
#6 @ 12" TRANSVERSE BARS

TYPICAL JOINT - BASIN WALL TO EXIST FOUNDATION
FOR HORIZ. & VERT. JOINTS

POURED FILLER INSIDE FACE AND UNDER WALL. FILLER TO BE JOHNS MANVILLE BITUMINOUS PUTTY OVER W-M CONC. PRIMER.
NOTE: CONTRACTOR TO EXERCISE CARE TO PREVENT DAMAGE TO CONC CURB AT OUTSIDE FACE OF WALL
POUR CONC TIGHT AT OUTER FACE
DEPTH OF CUT
OUTSIDE EDGE OF SOLID CONC. FOUND.
EXIST. FOUND.

DETAIL OF MOUNTING 27 WF BEAM ON SHAFT WALL
SCALE 1/2"=1'-0"

EL 0'-00"
27"WF160
27"WF102"
M-H CONN.
FILL
EL -3'-0 1/2"
EXISTING SHAFT WALL
MINIMUM 1" GROUT THRU-OUT. PLACE GROUT BEFORE PLACING STEEL

SHAFT WALLS
2-1" ANCHOR BOLTS 2'-2" LONG
15"x15"x1 1/2" BASE PLATE
4-"8 VERT
#3 TIES @ 12"
4-"8 DOWELS
1" GROUT
EXIST WALLS
EL 603.0'
2-1" DIA x 2'-3" ANCHOR BOLTS
4-"6 VERT
#3 @ 12" TIES
4-"6 DOWELS
#5 @ 5" EA. WAY

TYPICAL REINFORCING FOR 10 WF COLUMNS

PIER DETAIL COLUMN A-1

CURB DETAIL - SHAFT VENT
SCALE 3/4"=1'-0"

SHAFT VENT SEE DETAIL SH #9
16" ℄
20" BOLT CENTERS
3/4" CHAMFER ALL CORNERS
EXIST SHAFT WALL
CUT OUT DEPT OF WALL
3"x3"x1/4" L CAST IN CONC. CURB. ANCHOR WITH 2-1"x1/4"x10" STRAP EACH SIDE OF OPNG. CAST IN 2-3/4" ANCHOR BOLTS EACH SIDE TO ANCHOR COVER PLATE. SHOP WELD TO BOLTS TO LS PRIOR TO CASTING.

SECTION E-E THRU BASIN
SCALE 1/8"=1'-0"

℄ BASIN
℄ PUMP
KEY SLAB TO TOP OF WALL
12" MIN.
6" KEY
604.98 (-8'-3 1/4")
EXIST. FOUND
2-"4 DIAG. 2'-0" LONG @ CHANGES IN FOUND. ELEV.

DETAIL PIER FOR CRANE SUPPORT
SCALE 1/8"=1'-0"

EL 0'-00"
1" GROUT
4-"6 VERT. BARS #3 TIES AT 12"
#4 @ 6" E.W.
2-1 1/2" DIA ANCHOR BOLTS 1'-6" LONG

ALL SURFACES TO BE GROUTED SHALL BE SCREEDED ROUGH IN PREPARATION FOR GROUTING
FOR FUTURE UNIT
STARTER & CONTROL UNITS
TRANSFORMER
#4 @ 10" EACH WAY - TOP & BOTT.
CONTRACTOR SHALL FURNISH & INSTALL 1/2" x 8" HOOKED ANCHOR BOLTS 4 PER SECTION. SET BEFORE BASE IS POURED.
GROUTING NOT REQ'D UNDER TRANSFORMER
TOWER FOOTING - SEE DETAIL THIS SHEET
7'-0" FENCE
2 CHAMFER
EL -1'-6"
4x6-8/8 W.W. MESH
2 1/2" CONT #4 @ 12" DOWELS
3 @ 4'-0" TIES
3-#4 CONT.

NOTE:
ALL DIMENSIONS TO BE VERIFIED WITH EQUIPMENT FURNISHED. IF NECESSARY REVISIONS TO FOUNDATIONS SHALL BE MADE.
ELEVATION TO FIT EQUIPMENT FURNISHED
GROUT
#4 @ 12" TIES
5"x6" VERT. DA. SIDE
#5 @ 10" EW
4'-0" BELOW FINISH GRADE
(SEE NOTE)

ALL FTGS TO BEAR ON UNDISTURBED & FIRM SOIL - LOCATE ANCHOR BOLTS FROM SUPPLIERS DWGS.

TYPICAL TOWER FOOTINGS
SCALE - 1/2"=1'-0"

SIDING CONNECTION AT FLOOR LINE
SCALE 3/4"=1'-0"

CORRUGATED SIDING
CONT. 3x3x5/16" L
0'-00

TOWER BASE BOLT DETAIL
BOLTS & LEVELLING PLATES PURN UNDER PHASE "A" INSTALLED UNDER PHASE "B"
TOP OF LEVELLING PLATE
PLAN

PIPE STORAGE RACK TYP. PIER AND FOOTING
SCALE - 1/2"=1'-0"

Y-9
TYPICAL ANCHOR BOLT DETAIL
GROUT
EL 1'-0"
4-3/4" ℄ x 1'-6" ANCHOR BOLTS
12"x12" CONC PIER 4-#5 VERT #3 @ 10" TIES
4-#5 DOWELS
FTG 4'-0" x 2'-0" x 1'-0" 4-#5 EA WAY

DETAIL OF CRANE PIER
SCALE - 3/4"=1'-0"

1" GROUT
EL -0'-00"
12"x12"x1" BASE PLATE
2-3/4" ℄ x 1'-8" ANCHOR BOLTS
4-#6 VERT
4-#6 DOWELS
#3 AT 12" TIES
#5 @ 6" EA WAY

CONCRETE FOUNDATIONS - SECTIONS & DETAILS

REVISIONS

FLOOD CONTROL PROJECT Nº 21 - PHASE "B"
PA. DEPT. OF MINES & MINERAL INDUSTRIES
GLEN ALDEN CORPORATION
STANTON COLL. Nº 7 SHAFT
ROUSHEY AND SMITH
ENGINEERS AND CONSULTANTS
189 MARKET ST. KINGSTON, PA. METROPOLITAN WILKES-BARRE
SCALE NOTED | DATE 1-30-59 | BY J.B.
JOB 641
DWG. No. 5

RAY F. ROUSHEY No 10878
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