# APPENDIX A

As-built Drawings and Historical Photograph

Image Source: Site Conceptual Model Update, Potomac River Generating Station
By URS, dated June 28, 2013

Not to Scale

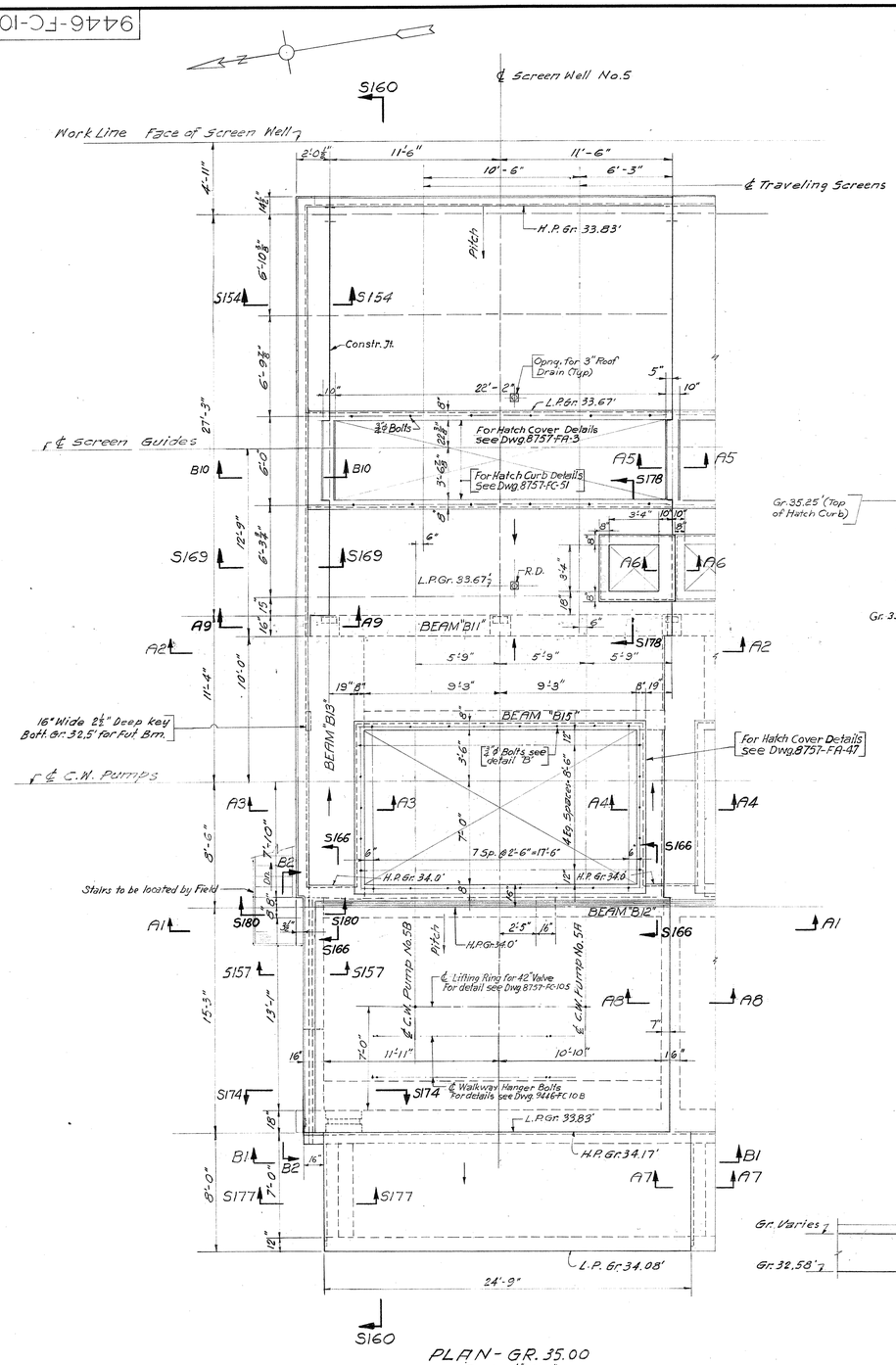
Geosyntec consultants

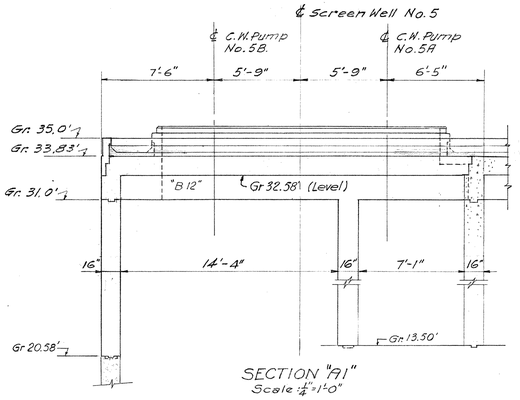
June-2014

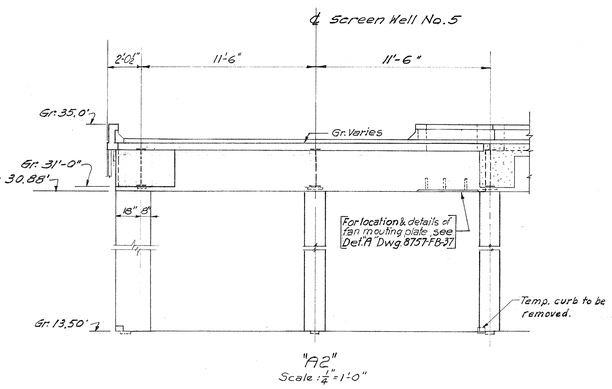
**Appendix A**

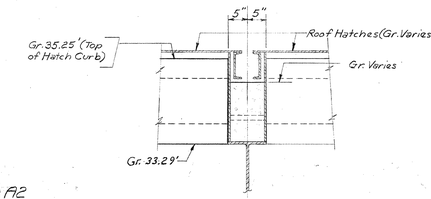
internal:\fo; path; date revised; author

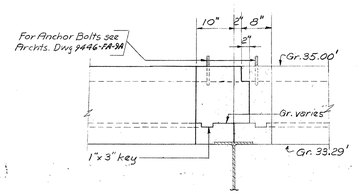
9446-FC-10A

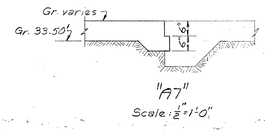


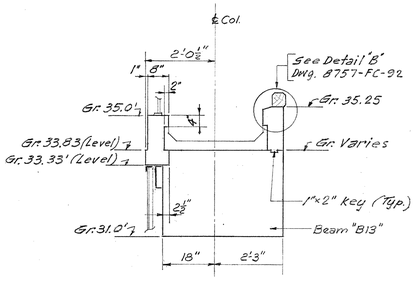



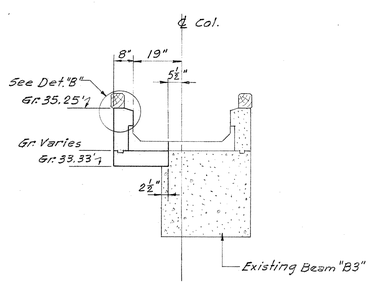



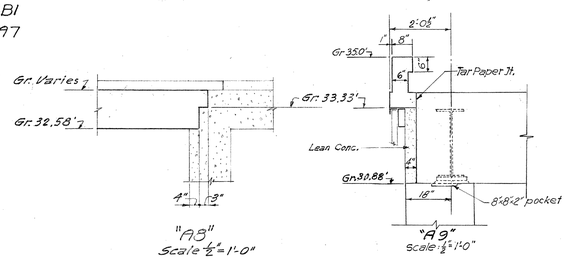




## NOTES

Scale as noted

Ultimate compressive strength of concrete at 28 days to be 3000 lbs. per sq. in.

Dimensions to reinforcement from face of concrete are clear distances.

Continuous reinforcing bars to be lapped 30 diameters at splices.

Design based on new type deformed reinforcing bars conforming to A. S. T. M. Std. Spec. A 305.

| Bar No | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| Nom Size | 1/4 RD | 3/8 RD | 1/2 RD | 5/8 RD | 3/4 RD | 7/8 RD | 1 RD | 1 SQ | 1 1/8 SQ | 1 1/4 SQ |

All numbers on this drawing are prefixed N

For Reinf Dets., see Dwg. 9446-FC-10C
For Sections prefixed by "S", see Dwg. 8757-FC-91, FC-92 & FC-93
For Sections prefixed by B, see Dwg. 9446-FC-10B
For Screenwell Outline, see Dwgs. 8757-FC-87, FC-88, FC-89, FC-90
For Hatch Covers & Archt. Details, see Archt. Dwgs.
For Roof Drains & Ventilation Details, see Dwg. 8757-FB-37
For Location of Handrail, see Archt. Dwgs.
For Details of Handrail, see Dwg. 8757-FC-105
See Dwg. 8757-FC-105 for Misc Iron Details
For Details of Walkway, See Dwg. 9446-FC-10B.
For Details of C.W. Pump Motor Platform & Ladder see Dwg. 8757-FM-60.

COMMONWEALTH OF VIRGINIA
HERBERT BIGGS CUTLER
CIVIL ENGINEER
CERTIFICATE No. 1673
CERTIFIED PROFESSIONAL ENGINEER

APPROVED _____
CERTIFIED PROFESSIONAL ENGINEER. NO. 1673
COMMONWEALTH OF VIRGINIA

| ISSUE | DESCRIPTION | CHKD. | INSP. | CORR. | APPR. |
|---|---|---|---|---|---|
| 5 | | | | | |
| 4 | | | | | |
| 3 | | | | | |
| 2 | | | | | |
| 1 | ORIGINAL ISSUE | 3-24-56 | 3-27-56 | 3-29-56 | 3-30-56 |

# SCREEN WELL HOUSE DETAILS-SH. 1

GENERATING STATION - C - POTOMAC RIVER - UNIT 5
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.

STONE & WEBSTER ENGINEERING CORPORATION

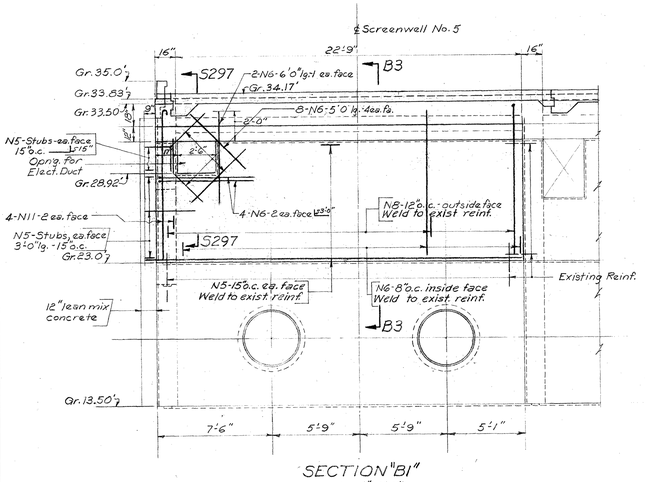
DRAWING NUMBER 9446-FC-10A

Designed by E.A.R. 3/16/56 Des. Chk'd by J.L.S. 3/27/56
Drawn by A. Tummillo C.E.R. Chk'd by H.R. Carter

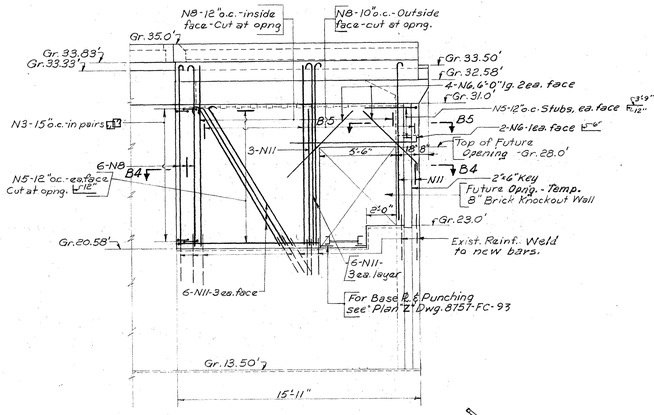
Engineer's Certified Copy — Extra Prints — Boards — Tracing — File

MODERN BLUE PRINT CO.

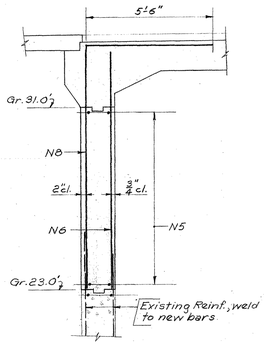
9446-FC-10B



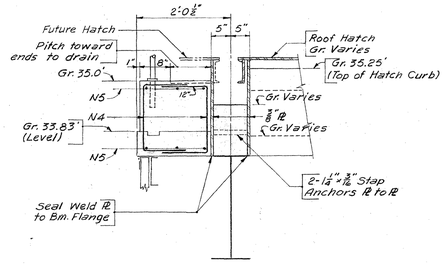

SECTION "B1"
Scale: 1/4" = 1'-0"



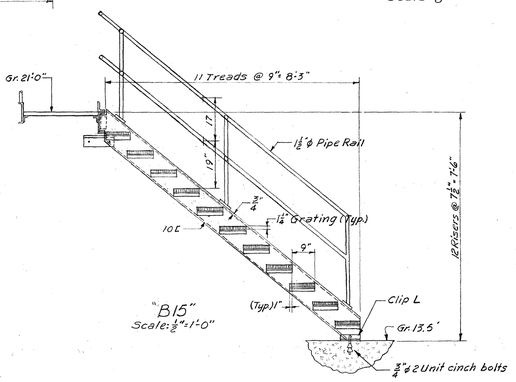

"B2"
Scale: 1/4" = 1'-0"




"B3"
Scale: 3/8" = 1'-0"



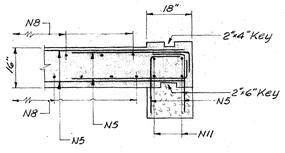

"B10"
Scale 3/4" = 1'-0"



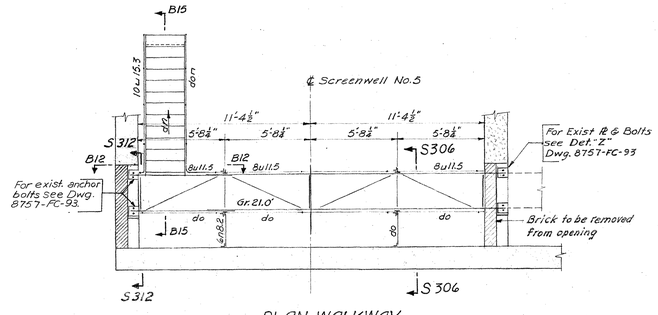

"B15"
Scale: 1/2" = 1'-0"



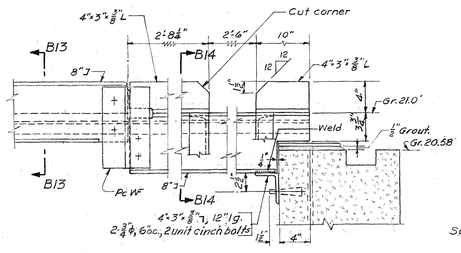

"B4"
Scale 1/2" = 1'-0"



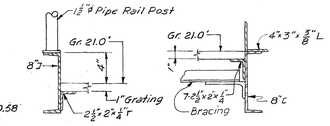

"B5"
Scale 1/2" = 1'-0"




PLAN-WALKWAY
Walkway Bracing to be 2 1/2" x 2 1/2" x 1/4" L
Scale 1/4" = 1'-0"




"B12"
Scale 1 1/2" = 1'-0"




"B13"
Scale 1 1/2" = 1'-0"

"B14"
Scale 1 1/2" = 1'-0"

## NOTES:

Scale as noted

Ultimate compressive strength of concrete at 28 days to be 2500 lbs. per sq. in.

Dimensions to reinforcement from face of concrete are clear distances.

Continuous reinforcing bars to be lapped 30 diameters at splices.

Design based on new type deformed reinforcing bars conforming to A. S. T. M. Std. Spec. A 305.

| Bar No | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| Nom Size | 1/4 RD | 3/8 RD | 1/2 RD | 5/8 RD | 3/4 RD | 7/8 RD | 1 RD | 1 SQ | 1 1/8 SQ | 1 1/4 SQ |

All numbers on this drawing are prefixed N

For Reinf. Dets., see dwg. 9446-FC-10C
For Additional Notes, see dwg. 9446-FC-10A
For sections "S297" & "S306" see Dwgs. 8757-FC-103 & FC-105.

COMMONWEALTH OF VIRGINIA
KENTON DAVIES BUTLER
CIVIL ENGINEER
CERTIFICATE No. 16773
CERTIFIED PROFESSIONAL ENGINEER

APPROVED _____
CERTIFIED PROFESSIONAL ENGINEER, NO. 16773
COMMONWEALTH OF VIRGINIA

| ISSUE | DESCRIPTION | CHKD. | INSP. | CORR. | APPR. |
|---|---|---|---|---|---|
| 5 | | | | | |
| 4 | | | | | |
| 3 | | | | | |
| 2 | | | | | |
| 1 | ORIGINAL ISSUE | 3-24-54 | 3-24-54 | 3-24-54 | 3-24-54 |

# SCREEN WELL HOUSE DETAILS-SH. 2

GENERATING STATION - C - POTOMAC RIVER - UNIT 5
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

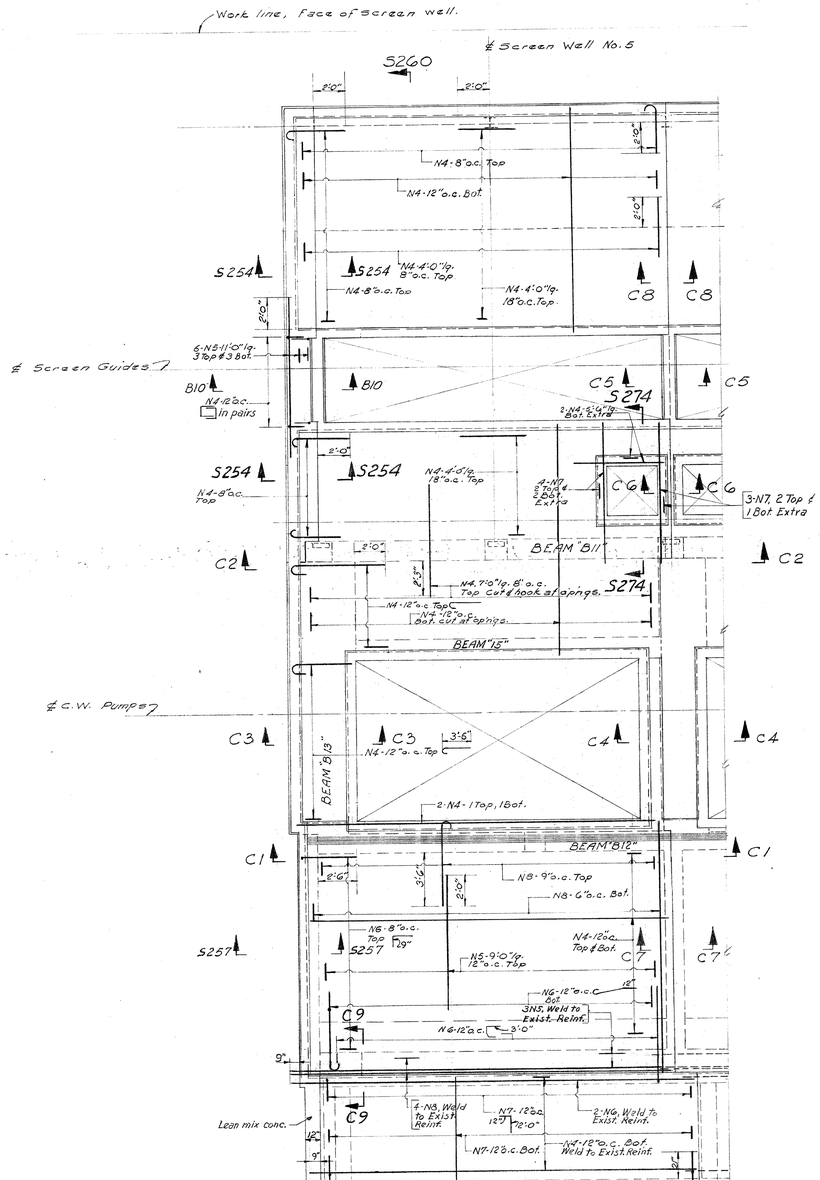
DRAWING NUMBER 9446-FC-10B

Designed by _____ Drawn by F.J.M.
Des. Chk'd by _____ Chk'd by H.P.Carter

Issue ⑤ Issue ④ Issue ③ Issue ② Issue ① Extra Prints Engineer Copies

MODERN BLUEPRINT COMPANY 10/59

9446-FC-10C

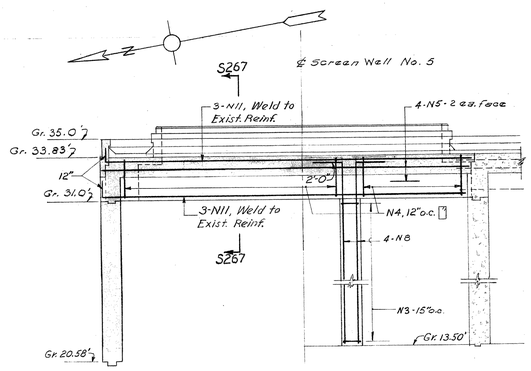



S260

PLAN-GR. 35.0'

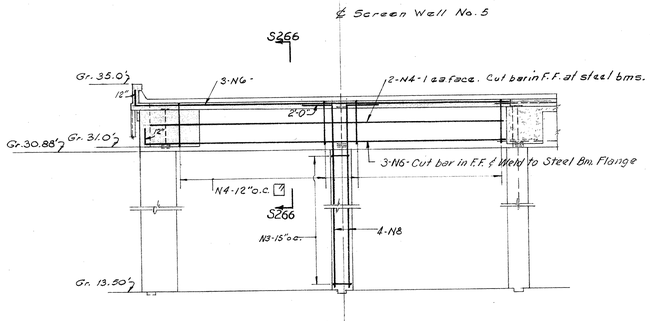
Use N3 bars 12"o.c. at right angles to Main Reinf. except where shown otherwise

Scale: ¼"=1'-0"



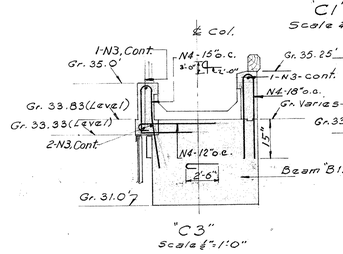

"C1"

Scale ¾"=1'-0"



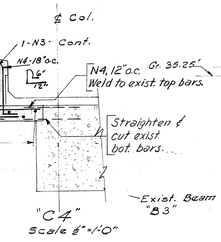

"C2"

Scale ¾"=1'-0"



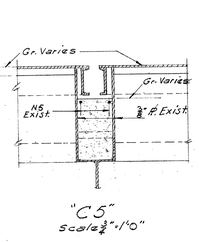

"C3"

Scale ¾"=1'-0"



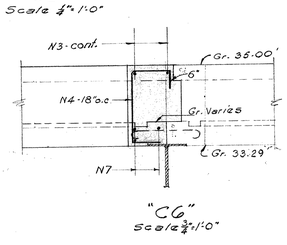

"C4"

Scale ¾"=1'-0"



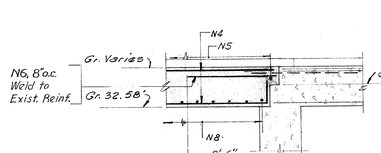

"C5"

Scale ¾"=1'-0"



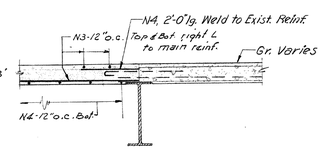

"C6"

Scale ¾"=1'-0"



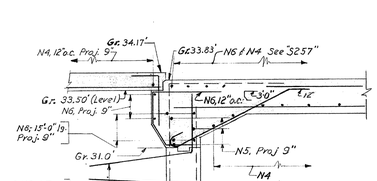

"C7"

Scale ¾"=1'-0"




"C8"

Scale ¾"=1'-0"




"C9"

Scale: ¾"=1'-0"

Scale: As Noted.

Ultimate compressive strength of concrete at 28 days to be 3500 lbs. per sq. in.

Dimensions to reinforcement from face of concrete are clear distances.

Continuous reinforcing bars to be lapped 30 diameters at splices.

Design based on new type deformed reinforcing bars conforming to A. S. T. M. Std. Spec. A 305.

| Bar No. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| Nom. Size | 1/4 RD | 3/8 RD | 1/2 RD | 5/8 RD | 3/4 RD | 7/8 RD | 1 RD | 1 SQ | 1 1/8 SQ | 1 1/4 SQ |

All numbers on this drawing are prefixed N

For Sections prefixed by "S" See Dwgs. 8757-FC101, FC102 & FC-103

For Screen Well Outline See Dwgs. 9446-FC10A & FC-10B.

Sections prefixed by "C" are on this dwg.

For Sections prefixed by "B" see Dwg. 9446-FC-10B

COMMONWEALTH OF VIRGINIA
MYRON BOGGS COHEN
CIVIL ENGINEER
CERTIFICATE No. 1673
CERTIFIED PROFESSIONAL ENGINEER

APPROVED _____
CERTIFIED PROFESSIONAL ENGINEER NO. 1673
COMMONWEALTH OF VIRGINIA

| ISSUE | DESCRIPTION | CHK'D. | INSP. | CORR. | APPR. |
|---|---|---|---|---|---|
| 5 | | | | | |
| 4 | | | | | |
| 3 | | | | | |
| 2 | | | | | |
| 1 | ORIGINAL ISSUE | 3-28-56 | 3-29-56 | 3-29-56 | 3-30-56 |

# SCREEN WELL HOUSE DETAILS-SH. 3

GENERATING STATION - C - POTOMAC RIVER - UNIT 5
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.

STONE & WEBSTER ENGINEERING CORPORATION

DRAWING NUMBER 9446-FC-10C

Designed by
Des. Chk'd by
Drawn by: E.F. Tonelli
Chk'd by: M.P. Gaite

Issue | Engineer | Extra | Issue | Issue

PLAN ~ GR. 13.50'

SECTION "S1"

SIDE ELEVATION DETAIL-ANCHOR FOR TIE ROD
Scale: 1" = 1'-0"

"S10" Scale: 3/4" = 1'-0"

"S21" "S22" same except as noted. Rail & Angle Req'd. for J.O. 9446. Scale: 3"-1'-0"

"S23" Scale 3/4" = 1'-0"

"S24" Scale: 1"-1'-0"

"S6" Scale 1 1/2" = 1'-0"

"S7" Scale 1 1/2" = 1'-0"

"S5" Scale 3/4" = 1'-0"

"S9" Scale 3/4" = 1'-0"

ELEVATION - TIMBER DEF.
8 Req'd. as shown
4 Req'd. for ports only (Future)
Scale 3/4" = 1'-0"

Notes:
Scale 3/4" = 1'-0" except as noted otherwise.
Ultimate Comp. Strength of Conc. at 28 days to be 3000 Lbs. per sq. in.
For Sections & Details not shown, see Dwgs. 8757-RC-88, FC-89, FC-90.
For details of Reinf. see Dwgs. 8757-RC-107, RC-108, FC-109, 110.
For Location of Equip. Anchor Bolts see Mfg's. Dwgs.
For Trash Rack & Guide details see Dwg. YX 1452 J.O. 7301
For Traveling Water Screen Guides see Mfg. Dwg's.
For details of Sheeting & Bracing see Dwgs 8757-RC-75, 76, 77, 678.
For Anchor Bolt Schedule see Dwg. 8757 - RC-89.
For Detail "C" & "S10" see Dwg. 8757-RC-90.
For Location of Steel Cols & Base Pls. see Dwgs 8757-FS-24 & FS-90.
For Supports for Recirculating Water Lines see Dwg. 8757 - FP6, FP-135.
For Inserts, Details see Dwg. 8757-FS42, FM-38, FS-37.
For Screen Well - Misc. Iron Details see Dwg. 8757-FC-105.
For Circ. Water Pump Plan & Screen Well Arrgt. see Dwgs. 8757-FM-47 & FM-48.
For Excavation see Dwg. 8757-RC-86 & 88.
For location of Fl. Drains & Thimbles see Dwg. 8757-FP-143.

APPROVED [signature]
CERTIFIED PROFESSIONAL ENGINEER, NO. 3965
COMMONWEALTH OF VIRGINIA

| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | | | | |
| DATE OF SIGNATURES | | | | |
| 3 | | | | |
| DATE OF SIGNATURES | 3-12-56 | 3-23-56 | 3-29-56 | 3-30-56 |
| 2 | ISSUED FOR UNIT NO 5 J.O. 9446 | RJZ | RKC | EL | L.N.C. |
| DATE OF SIGNATURES | 11-21-55 | 11-30-55 | 12-20-55 | 1-20-56 |
| 1 | NOTE AREA, INSTR. CHG'D. FOR CLEAR'D | RJZ | RKC | E.L. | C.H.P. |
| NO. | DESCRIPTION | CHK'D. | INSP. | COR. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

SCANNED
Chalk Point
05076

# SCREEN WELL - OUTLINE - SHEET 1

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

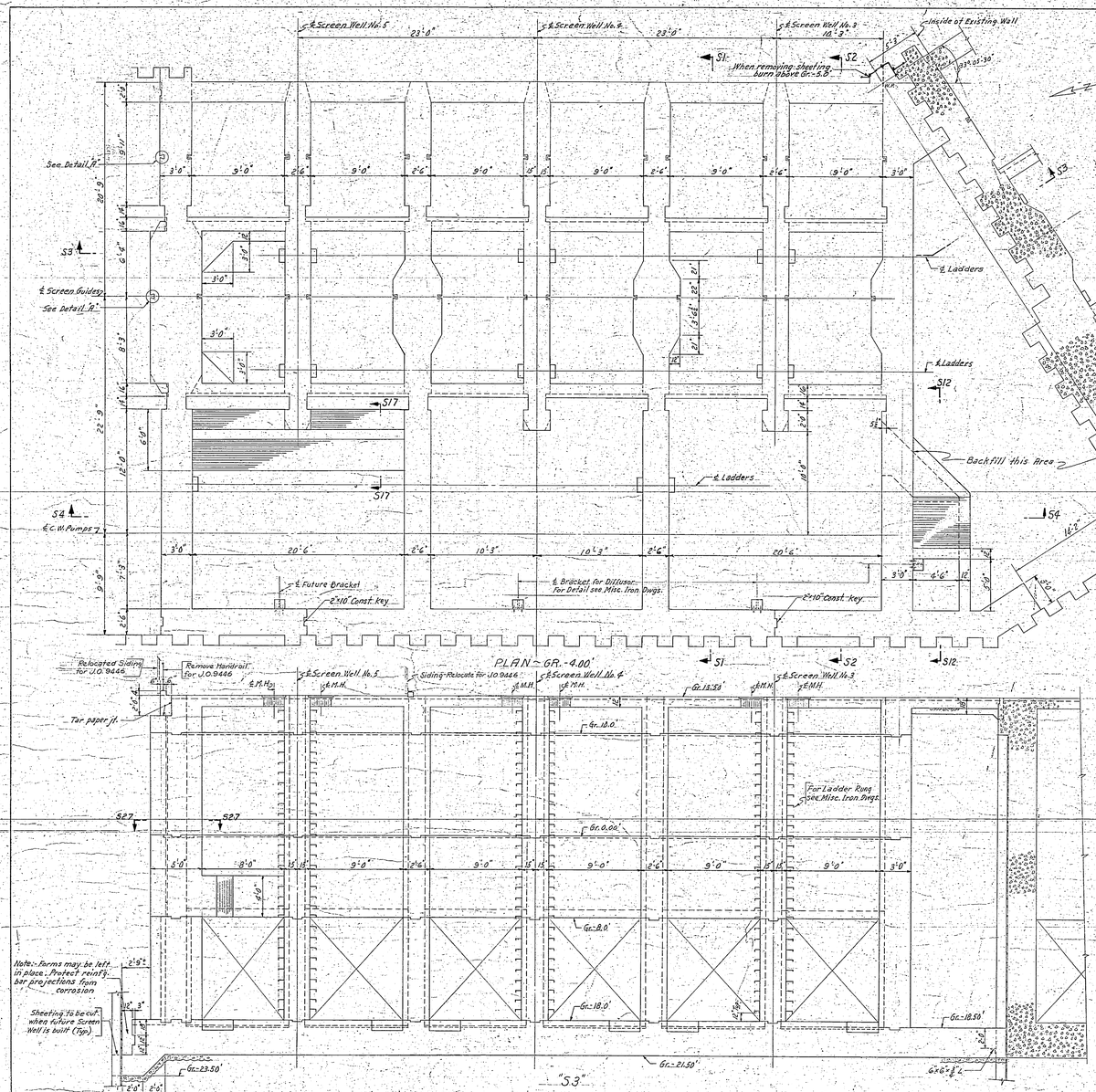
| CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-14-53 | 7-16-53 | 7-17-53 | 7-21-53 |
| RKC | | E.L. | EQB |

SCALE GIVEN
APRIL 17, 1953

8757-RC-87

RETURN TO P. GARDOM - 314-5

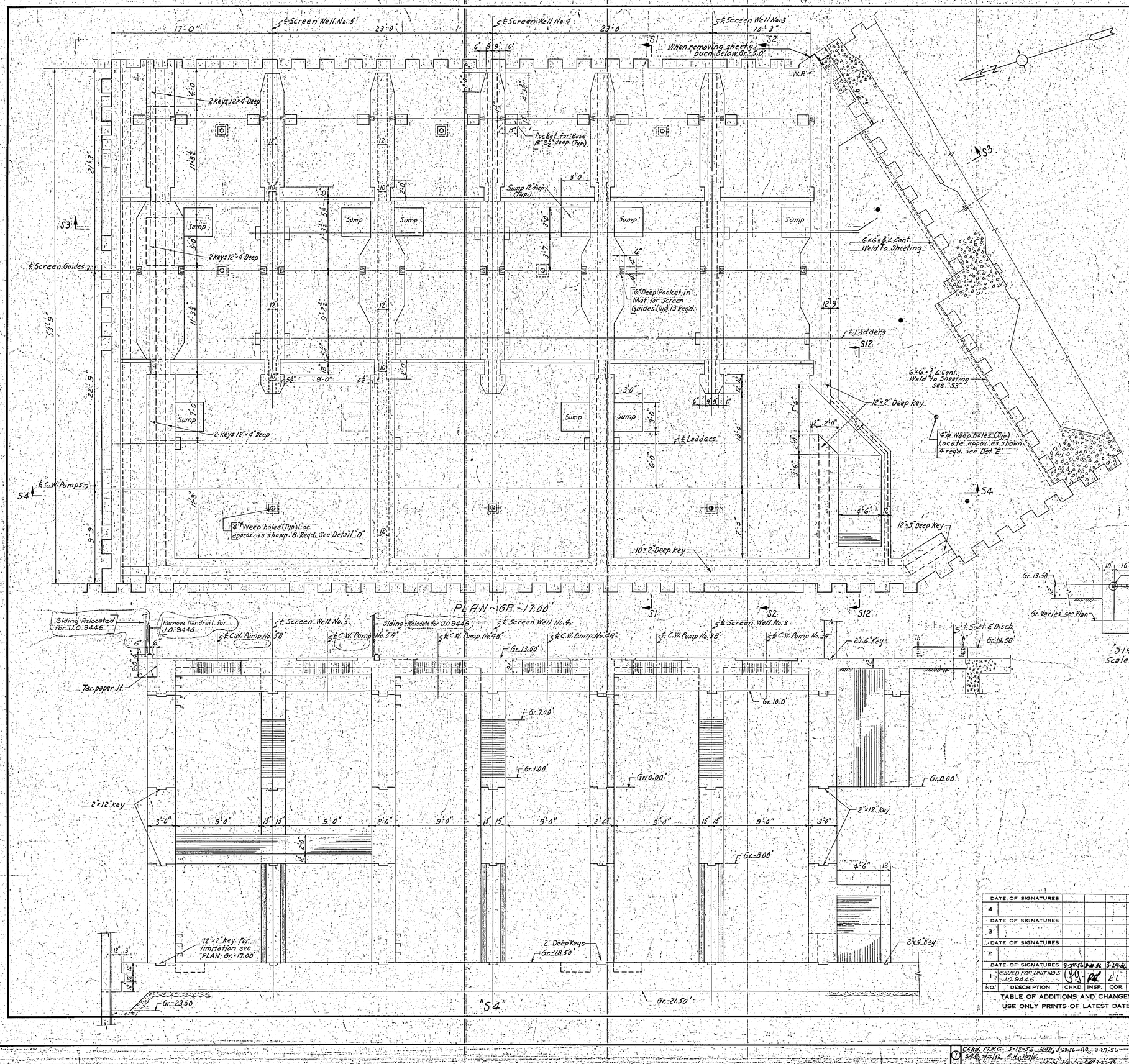
Designed By: R. Zackey - Drawn By: F.N. Johns
Des. Chkd. By: J. Rapolowskas Chkd. By: W.C. [illegible]

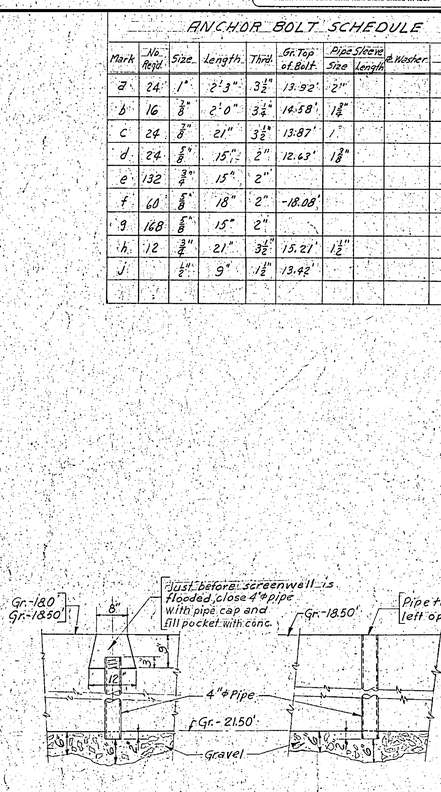

℄ Screen Well No. 5
23'-0"
℄ Screen Well No. 4
23'-0"
℄ Screen Well No. 3
10'-3"
Inside of Existing Wall
S1
When removing sheeting burn above Gr.-5.8
S2
See Detail "A"
20'-9"
3'-0"
9'-0"
2'-6"
9'-0"
2'-6"
9'-0"
9'-0"
2'-6"
9'-0"
2'-6"
9'-0"
3'-0"
S3
℄ Screen Guides
See Detail "A"
8'-3"
3'-0"
22'-3"
12'-0"
6'-0"
S17
S4
℄ C.W. Pumps
9'-9"
3'-0"
20'-6"
2'-6"
10'-3"
10'-3"
2'-6"
20'-6"
℄ Future Bracket
2"x10" Const. Key
℄ Bracket for Diffusor For Detail see Misc. Iron Dwgs.
2"x10" Const. Key
3'-0"
4'-6"
12"
5'-3"
℄ Ladders
S12
Backfill this Area
S4
16'-0"
Excavation Line
Do not back-fill until Screen Well Has is completed
Gr. 5.8
Gr. 3.00
Gr. 0.00
"S3"
PLAN - GR. -4.00'
S1
S2
S12
Relocated Siding for J.O. 9446
Remove Handrail for J.O. 9446
℄ Screen Well No. 5
℄ M.H.
Siding Relocate for J.O. 9446
℄ Screen Well No. 4
℄ M.H.
℄ M.H.
Gr. 13.25'
℄ M.H.
℄ Screen Well No. 3
℄ M.H.
Tar paper fl.
Gr. 10.0'
Gr. 0.00'
Gr. 8.0'
Gr. 18.0'
Gr. 18.50'
Gr. 21.50'
For Ladder Rung see Misc. Iron Dwgs.
S27
S27
5'0"
8'0"
15"
15"
9'0"
2'6"
9'0"
15"
15"
9'0"
2'6"
9'0"
15"
15"
9'0"
3'0"
6'0"
Note:- Forms may be left in place. Protect reinf. bar projections from corrosion
2'-9"
2'-3"
Sheeting to be cut when future Screen Well is built (Typ.)
Gr.-23.50'
2'-0"
2'-0"
"S27"
PART PLAN AT GR. 0.0'
"S3"
℄ Service Water Pumps
℄ C.W. Pumps
℄ Screen Guides
See Det. "C"
See S10
Gr. 13.5'
Gr. 12.58'
Gr. 10.0'
Gr. Varies see Plan
Trash Rack Guides
2"x10" Keys
Gr. 7.0
Gr. 1.00
Gr. 0.0'
Gr. -5.0'
Gr. -8.0'
For Location of Brackets for Diffusor Sockets see Mfg. Dwgs.
For Details of Bracket see Misc. Iron Dwgs.
See Timber Det. Dwg. 8757-RC-87
See Timber Det.
Gr. -18.50'
Gr. -18.0'
Gr. -21.5'
W.R.
"S2"
℄ Screen Wash Pump No. 3
℄ Screen Wash Pump No. 4
Gr. 13.50
Gr. 10.0'
4" deep
Gr. 9.50'
2"x10" Key Cont.
33 Keys @ 12" = 33'0"
Gr. 3.00
Gr. 0.00'
"S11"
℄ Suct. & Disch.
See Det. "B"
9'9"
Gr. 13.50'
Gr. 10.0'
19"
3" Deep Shear Keys
℄ Screen Guides
5'-0"
Gr. 0.00'
"S13"
3'-0"
18"
2'-0"
Gr. -8.0
2'-6"
"S17"
Scale 1/4"=1'-0"
Notes:
Scale 1/4"=1'-0" except as noted otherwise.
Ultimate Comp. Strength at conc. at 28 days to be 3500 lbs. per sq. in.
For Sections & Details not shown see Dwgs. 8757-RC-01, FC-03, FC-90.
For Details of Paint see Dwgs. 8757-RC-101.
For Location of Anchor Bolts see Mfgr. Dwgs.
For Trash Rack & Guide details see Dwg. VX-1052, J.O. 7901
For Traveling Water Screen Guides see Mfg. Dwgs.
For Details of Sheeting & Bracing see Dwg. 8757-SC-16.
For Anchor Bolt Schedule, see Dwg. 8757-FC-93.
For Detail "A", Detail "B", Detail "C" & S16 see Dwg. 8757-RC-90.
For Screen Well - Misc. Iron Details see Dwg. 8757-RC-165.
SCANNED
Chalk Point
05075
APPROVED Ernest A. Dochtermann
CERTIFIED PROFESSIONAL ENGINEER, No. 1020
COMMONWEALTH OF VIRGINIA
DATE OF SIGNATURES
4
DATE OF SIGNATURES 3-20-53 3-25-53 3-26-53
3 ISSUED FOR UNIT NO 5 J.O. 9446
DATE OF SIGNATURES 12-3-52 1-21-53 2-18-53 2-24-53
2 PIPE CHANGED - CERTAIN PIPING NOTE CHANGES ETC. REVISED
DATE OF SIGNATURES 9-4-52 11-5-52 12-23-52 4-4-53
1 SCREEN WASH & SLUICE PIPING ADDED
NO. DESCRIPTION CHKD. INSP. COR. APPR.
TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE
SCREEN WELL - OUTLINE - SHEET 2
GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION
SCALE GIVEN
APRIL 17, 1953
CHKD. 7-17-53 INSP. 9-19-53 COR. 7-17-53 APPR. 7-21-53
8757-RC-88
RETURN TO P. GORDON - 1125
Traced by C.H.B. Checked by J.R.
Quantities Checked by
Designed by J. Hendricks Checked by

SCANNED
Chalk Point
06246

## ANCHOR BOLT SCHEDULE

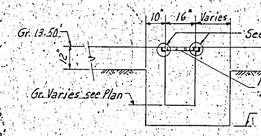
| Mark | No. Reqd. | Size | Length | Thrd. | Gr. Top of Bolt | Pipe Sleeve Size | Pipe Sleeve Length | ℄ Washer | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| a | 24 | 1" | 2'-3" | $3\frac{1}{2}$" | 13.92' | 2" | | | $\frac{C\,2'0"}{F\,3'}$ |
| b | 16 | $\frac{7}{8}$" | 2'-0" | $3\frac{1}{4}$" | 14.58' | $1\frac{5}{8}$" | | | $\frac{C\,2'1"}{F\,3'}$ |
| c | 24 | $\frac{7}{8}$" | 21" | $3\frac{1}{2}$" | 13.87' | 1" | | | $\frac{C\,1'8"}{F\,3'}$ |
| d | 24 | $\frac{5}{8}$" | 15" | 2" | 12.63' | $1\frac{3}{8}$" | | | $\frac{C\,1'3"}{F\,2'}$ |
| e | 132 | $\frac{3}{4}$" | 15" | 2" | | | | | $\frac{C\,1'2"}{F\,3'}$ |
| f | 60 | $\frac{5}{8}$" | 18" | 2" | -18.08' | | | | $\frac{C\,1'5"}{F\,3'}$ |
| g | 168 | $\frac{5}{8}$" | 15" | 2" | | | | | $\frac{C\,1'2"}{F\,3'}$ |
| h | 12 | $\frac{3}{4}$" | 21" | $3\frac{1}{2}$" | 15.21' | $1\frac{1}{2}$" | | | $\frac{C\,1'8"}{F\,3'}$ |
| j | | $\frac{1}{2}$" | 9" | $1\frac{1}{2}$" | 13.92' | | | | $\frac{C\,0'7"}{F\,2'}$ |




DETAIL "D"
Scale: ¾"=1'-0"

DETAIL "E"
Scale: ¾"=1'-0"




"S14"
Scale ¾"=1'-0"

Notes:
Scale: ½"=1'-0" except as noted otherwise
Ultimate Comp. Strength of Conc. at 28 days to be 3000 lbs. per sq. in.
For Sections & Details not shown see Dwgs. 8757-RC-87, RC-88 & FC-90.
For Details of Reinf. see Dwgs 8757-RC-107.
For Location of Anchor Bolts see Mfg. Dwgs.
For Trash Rack & Guide Details see Dwg VX 1052, J.O. 7901.
For Traveling Water Screen Guides see Mfg. Dwgs.
For Details of Sheeting & Bracing see Dwgs. 8757-FC-76.
For Screen Well - Misc. Iron Details see Dwg. 8757-FC-105, 106.

APPROVED Ernest A. Dos Santos
CERTIFIED PROFESSIONAL ENGINEER, NO. 5515
COMMONWEALTH OF VIRGINIA

| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | | | | |
| DATE OF SIGNATURES | | | | |
| 3 | | | | |
| DATE OF SIGNATURES | | | | |
| 2 | | | | |
| DATE OF SIGNATURES | 3-28-56 | 3-24-56 | 3-30-56 | |
| 1 | ISSUED FOR UNIT NO 5 J.O. 9446. | | | |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - OUTLINE - SHEET 3

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APRIL 17, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-14-53 | 7-16-53 | 7-11-53 | 7-21-53 |
| RAL | RAL | E.I. & G.M. | EAD |

8757-FC-89

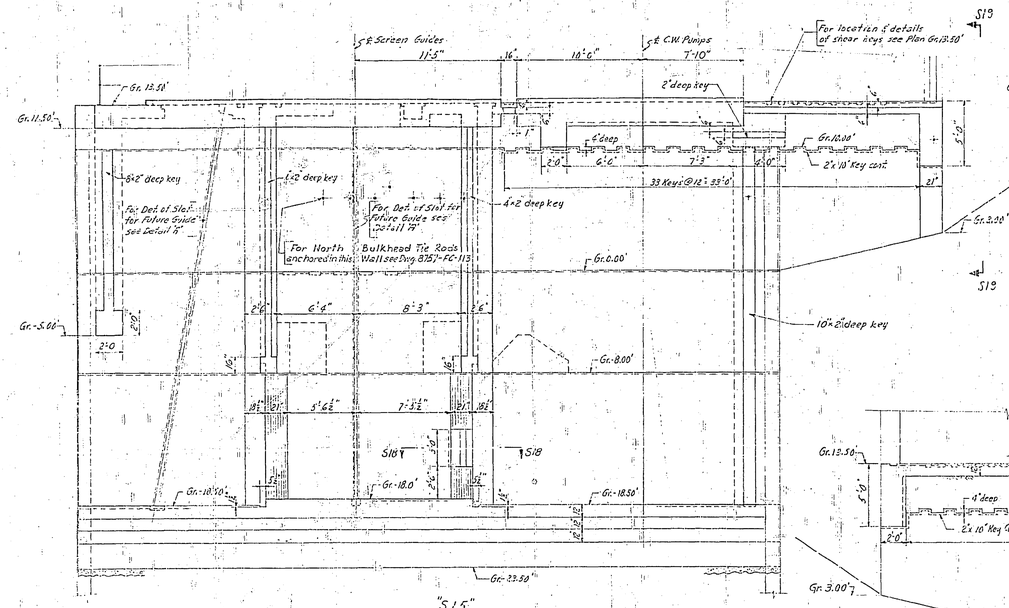
R.C. 50081

Designed by A. Zoskey — Drawn by F.N. Johnson
Des. Chk'd by J. Rossiavskas — Chk'd by W.C. Wason

Chk'd. M.R.C. 3-12-56 W.M.L. 3-22-56 A.D. 9-27-56
Chk'd. 7-13-53 M.R.C. 7-13-53 W.M.L. 7-13-53 A.D. 7-13-53

RETURN TO: P.C. GORDON 8-9-2

Engineer | Engineering | Estp Prints | Tracings | Bond | Paper & Prints




Notes
Scale 1/4"-1'-0" except as noted.
Ultimate Comp. Strength of Conc. at 28 days to be 3000 lbs. per sq. in.
For Sections & Details not shown see Dwg. 8757-RC-87, RC-88 & FC-89.
For General Notes see Dwg. 8757-RC-87
For Bulkhead Tie rods & anchorage in north wall see Dwg. 8757-FC-113

APPROVED Ernest A. Bartholomew
CERTIFIED PROFESSIONAL ENGINEER, NO. 948
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHK'D. | INSP. | CO'D. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| | DATE OF SIGNATURES | 9-22-53 | 9-24-53 | 9-25-53 | 9-30-53 |
| 3 | ADDED TIES UNDER NO. 5 FOR J.O. 9446 | WG | CKP | E.L. | H.W.C. |
| | DATE OF SIGNATURES | 9-11-53 | 9-12-53 | 9-15-53 | 9-17-53 |
| 2 | ANCHOR REMOVED, TIE ODD ADDED AT SILL | WG | RWC | E.L. | H.W.C. |
| | DATE OF SIGNATURES | 7-17-53 | 9-3-53 | 9-3-53 | 9-3-53 |
| 1 | TYP. ASST. & NOTE ADDED MINOR CHGS. | WG | RWC | WG | H.W.C. |

* TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - OUTLINE - SHEET 4

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APRIL 17, 1953

| CHKD. | INSP. | CO'D. | APPR. |
|---|---|---|---|
| 7-14-53 | 7-14-53 | 7-17-53 | 7-21-53 |
| WG | RWC | E.L. S.C.J. | E.C.D. |

8757-FC-90

R.C. 7012

Designed by R. Bosley
Drawn by F.H. Hoffman
Det. Ch'd by H. Tiffany
Ch'd by H.W. Crockett

Checked J.R. 8-2-53

Engineer | Extra Prints | Rec'd | Ret'd | Init. | Date | Plate | Ret'd | Init. | Date | Plate

RETAIN

TRACE TO P. GORDON - 89-2

PLAN — GR. 3500'
Scale 1/4" = 1'-0"

"550"
Scale 3/4" = 1'-0"

"551"
Scale 3/4" = 1'-0"

"552"
Scale 3/4" = 1'-0"

"553"
Scale 3/4" = 1'-0"

"554" as shown
"569" same except as noted
"5154" for J.O.9446
"5169" as noted for J.O.9446
Scale: 3/4" = 1'-0"

"555"
Scale: 3/4" = 1'-0"

"556"
Scale 3/4" = 1'-0"

"557"
"5157" for J.O.9446
Scale: 3/4" = 1'-0"

"558"
Scale 3/4" = 1'-0"

"559"
Scale 3/4" = 1'-0"

Notes
Scale as noted.
Ultimate Comp. Strength of Conc. at 28 days to be 3000 lbs. per sq. in.
For Reinf. details see Dwgs. 8757-FC-101, 102, & 103.
For Sections & details of roof beams see Dwgs. 8757-FC-92 & FC-93.
For Screen Well outline see Dwgs 8757-FC-87, FC-88, FC-89 & FC-90.
For Hatch Covers & Arch Details see Arch. Dwgs.
For Roof Drains & Ventilation details see Dwg. 8757-FB-37
For location of Hand Rail see Arch. Dwgs.
For Details of Hand Rail see Dwg. 8757-FC-105.
For location of Conduit see Dwg. 8757-FE-178 & 182
SECTIONS NUMBERED 100 & OVER ARE FOR J.O. 9446

APPROVED Ernest A. Dunstan
CERTIFIED PROFESSIONAL ENGINEER, NO. 1105
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | 3-27-53 | 3-28-53 | 3-30-53 | 3-30-53 |
| 3 | ISSUED FOR UNIT NO.5 J.O.9446 | WL | GHE | L.I. | L.H.C. |
| | DATE OF SIGNATURES | 11-14-52 | 11-17-52 | 11-21-52 | 11-21-52 |
| 2 | REVIT. DWGS. CHANGED TO SEC. 3&4 PLANS | PH | RHE | L.I. | L.H.C. |
| | DATE OF SIGNATURES | 8-12-52 | 8-13-52 | 8-14-52 | 8-17-52 |
| 1 | UNLESTING, WHERE SHOWN, BRACKING SHALL BE REMOVED. NOTES ADDED. | WL | RHE | L.I. | L.H.C. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL HOUSE - OUTLINE - SHEET 1

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APRIL 17, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-1-53 | 7-1-53 | 7-13-53 | 7-14-53 |
| WL | RHE | L.I. | LHC |

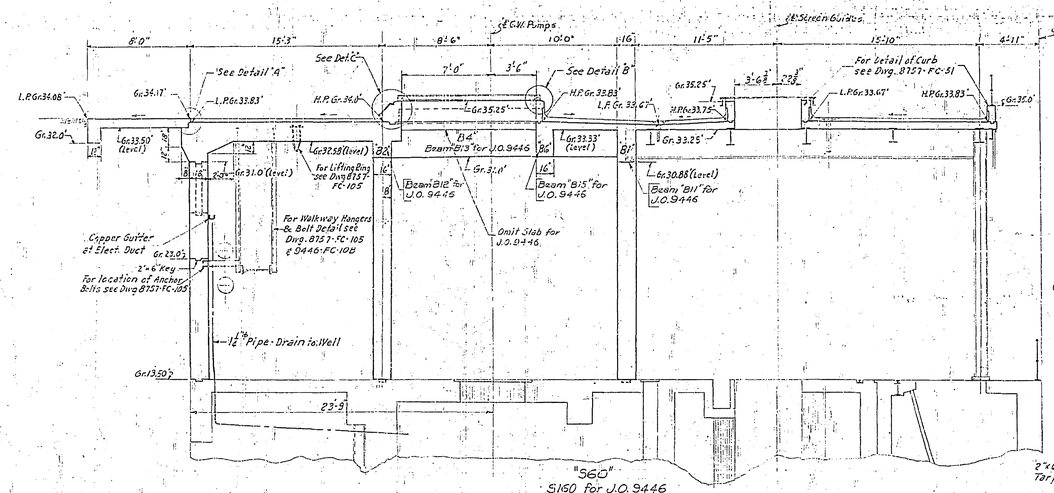
8757-FC-91

Designed by H. Zeckey
Drawn by R.H. & F.R.H.
Des. Chk'd by J. Rothschild
Chk'd by L.H.C.

3 CORR. PER C.C.I. 3-27-53 H.Z. & J.R.B. 3-27-53 W.L.
2 CORR. PER C.C.I. 11-21-52 J.R.B. 11-21-52 W.L.
1 CORR. PER C.C.I. 8-17-52 J.R.B. 8-17-52 W.L.

Engineer P.I. Division
Extra Prints
Tracing Checked
Tracing Approved
Tracing Issued
Prints Checked
Prints Approved
Prints Issued
Units 3 & 4 Plans
Units 1 & 2 Plans
Units 1 & 2 Elevations
Units 3 & 4 Elevations
Units 1 & 2 Sections
Units 3 & 4 Sections
Units 1 & 2 Details
Units 3 & 4 Details
Units 1 & 2 Misc.
Units 3 & 4 Misc.
Units 1 & 2 Piping
Units 3 & 4 Piping
Units 1 & 2 Conduits
Units 3 & 4 Conduits
Units 1 & 2 Ducts
Units 3 & 4 Ducts
Units 1 & 2 Pipes
Units 3 & 4 Pipes
Units 1 & 2 Misc.
Units 3 & 4 Misc.
Units 1 & 2 Details
Units 3 & 4 Details
Units 1 & 2 Sections
Units 3 & 4 Sections
Units 1 & 2 Elevations
Units 3 & 4 Elevations
Units 1 & 2 Plans
Units 3 & 4 Plans
Tracing Issued
Tracing Approved
Tracing Checked
Prints Issued
Prints Approved
Prints Checked

P.C. 39099




Notes
Scale as noted
Ultimate Comp. Strength of Conc. at 28 days to be 3000 lbs. per sq. in.
For Reinf. details see Dwg. 8757-FC-101, 102 & 103
For Sections & details not shown see Dwg. 8757-FC-91 & FC-93
SECTIONS NUMBERED 100 & OVER ARE FOR J.O. 9446

APPROVED Ernest A. Hamlin
CERTIFIED PROFESSIONAL ENGINEER, NO. 885
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHK'D | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| 3 | DATE OF SIGNATURES 3-22-54 — ISSUED FOR UNITS 3 & 4 U.O. 9446 | | 3-24-54 | 3-29-54 | 3-30-54 |
| 2 | DATE OF SIGNATURES 11-13-53 — Elect. Duct Changed Dim. "S78" Recess Mines Additions | 11-13-53 | 11-17-53 | 11-17-53 | 12-11-53 |
| 1 | DATE OF SIGNATURES 8-13-53 — Gr. Revised, "S79" Removed, Miscellaneous | 8-13-53 | 8-13-53 | 8-18-53 | 8-13-53 |
| | TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE | | | | |

# SCREEN WELL HOUSE - OUTLINE - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

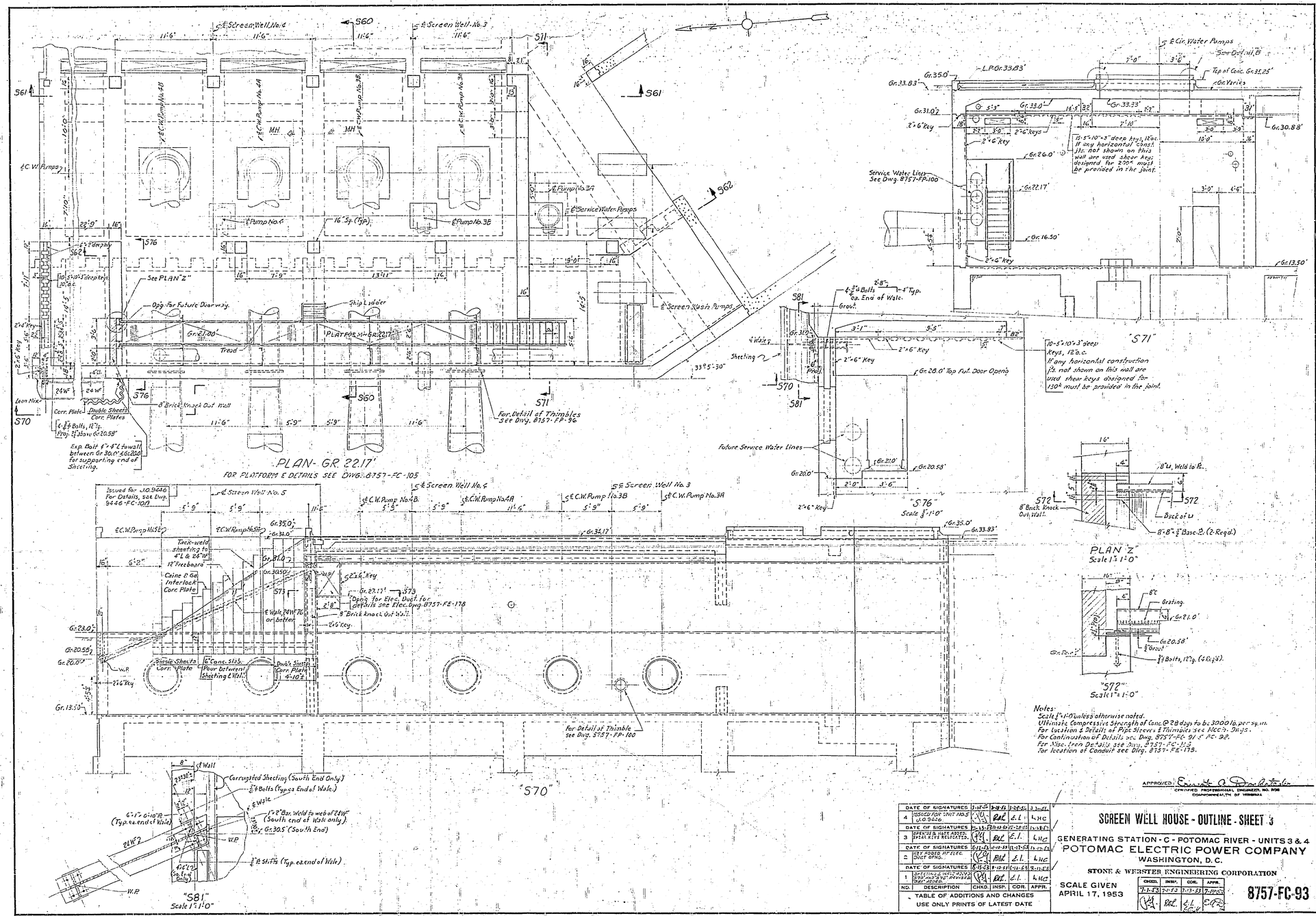
SCALE GIVEN
APRIL 17, 1953

| CHK'D | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-1-53 | 7-1-53 | 7-13-53 | 7-14-53 |

8757-FC-92

Designed by R. Bosch
Des. Chk'd by
Drawn by
Chk'd by

B.C. 12094




| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | ISSUED FOR UNIT NO. 5 & L.O. 9446 | | | |
| DATE OF SIGNATURES | | | | |
| 3 | REVISED & NOTE ADDED, BRICK KEYS REDESIGNED | | | |
| DATE OF SIGNATURES | | | | |
| 2 | KEY FOOTED IN ELEC. DUCT OPNG. | | | |
| DATE OF SIGNATURES | | | | |
| 1 | SHEETING & WALL ADDED & NOTE ADDED & REVISED DIST. SECTION | | | |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

APPROVED: Ernest A. Grunsky
CERTIFIED PROFESSIONAL ENGINEER, NO. 8126
COMMONWEALTH OF VIRGINIA

# SCREEN WELL HOUSE - OUTLINE - SHEET 3

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

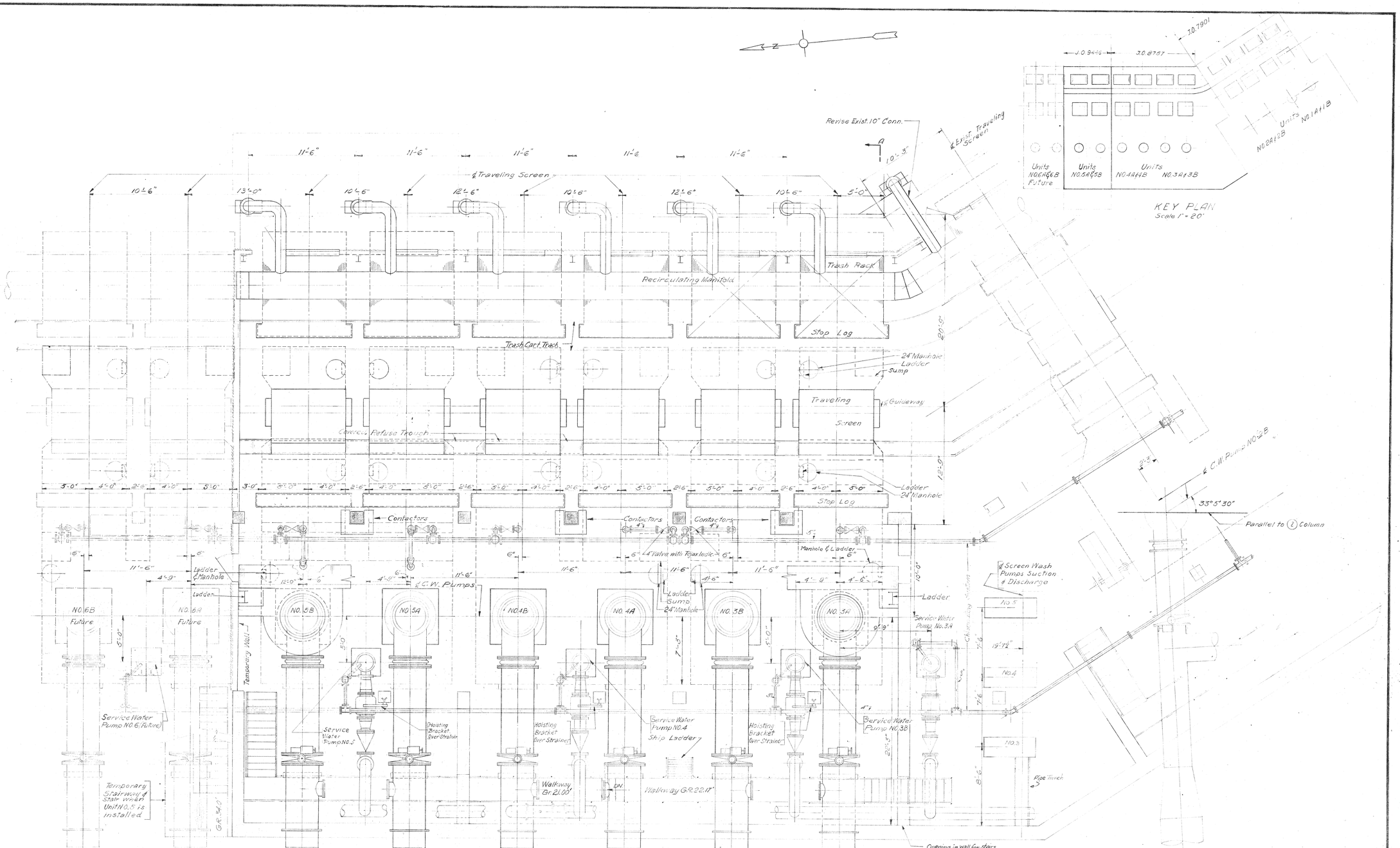
SCALE GIVEN
APRIL 17, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-1-53 | 7-1-53 | 7-13-53 | 7-14-53 |

8757-FC-93

R.C. 58095

Designed by A.E. Sykes — Drawn by R.M. & F.M.J.
Des. Ch'd by — Detailed by — Ch'd by




| NO. | DESCRIPTION | CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE | | | | |
| 1 | GENERAL REVISION | 3/1 | KRPC | 3/26/53 | MWC |
| 2 | ISSUED FOR I.D. STATE UNIT NO. 5 ADDED | STP | CDK | 6-12-53 | DKF |
| | DATE OF SIGNATURES | 10-10-55 | 10-10-55 | 10-11-55 | 10-12-55 |
| 3 | PIPING CHANGED | SEL | CDK | 11-22-55 | DKF |
| | DATE OF SIGNATURES | | | 6-21-53 | 6-24-53 |
| 4 | | | | | |
| | DATE OF SIGNATURES | 5-1-56 | 5-1-56 | 5-1-56 | 5-1-56 |

# CIRC. WATER PUMP HOUSE & SCREEN WELL ARRGT. - SH. 1

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4

POTOMAC ELECTRIC POWER COMPANY

WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE ¼" - 1 FT

FEB. 10, 1953

| CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|
| 3/20/53 | 3-26-53 | 3-26-53 | |
| 3/21 | KRPC | C.D.K. 6-12-53 | MWC |

**8757-FM-47**

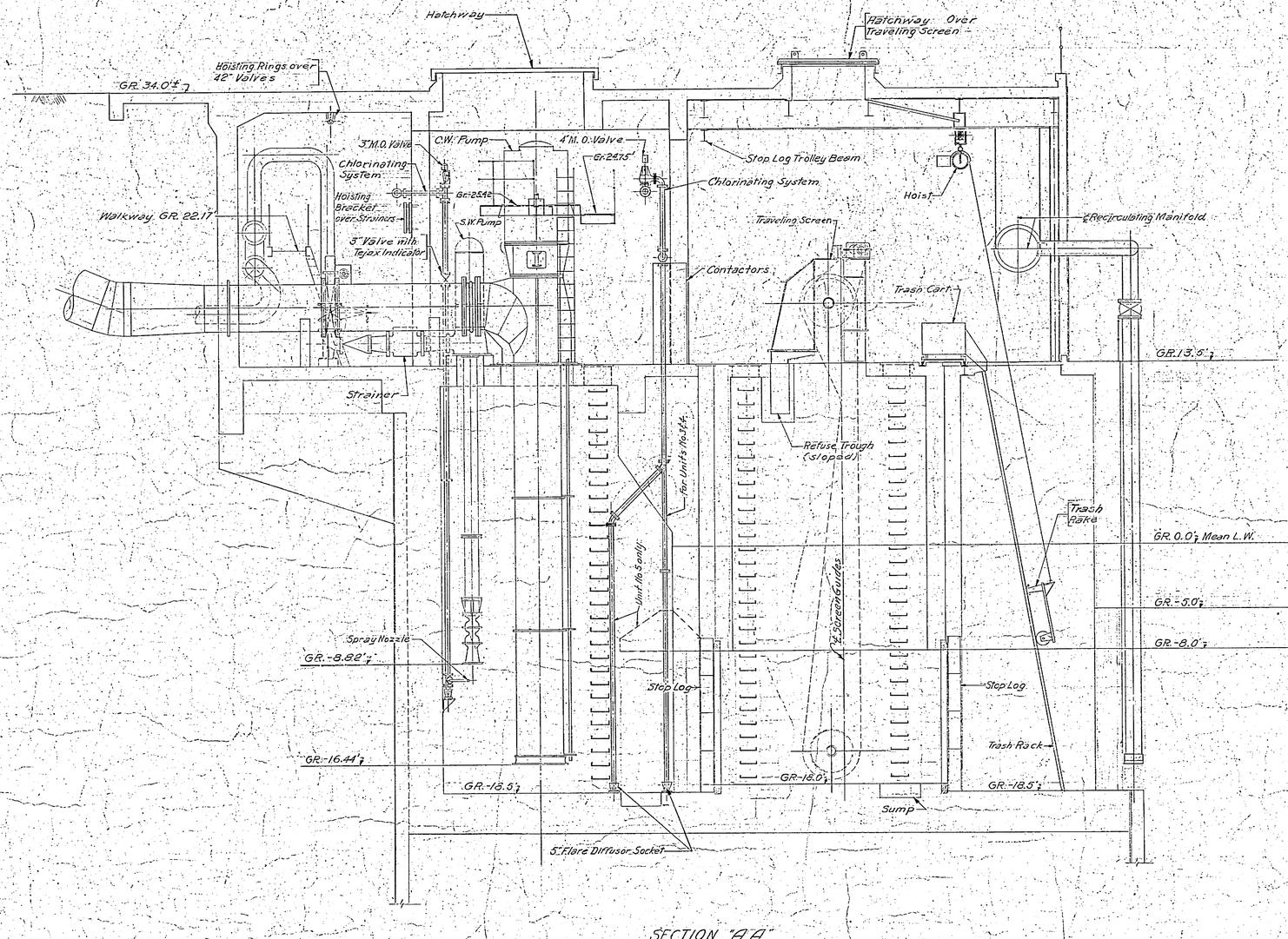
SUPERSEDES 8757-FM-24

R.C. 36057

Drawn by Z. Baranowskyj Designed by
Chk'd. by Des. Chk'd by

Engineer in Charge R. Wood
Engrs. in Charge Gordon Hollis
Sec. Engineer Bodd Gerardi
Sheet 1 of 2 Sheets
Scale 1" = 20'
Date 2-10-53
Drawing No. 8757-FM-47

SCANNED
Chalk Point
04804




SECTION "A-A"

SUPERSEDES 8757-FM-25

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES — PIPING CHANGED | 5/1/56 SER | 5-1-56 | 5-1-56 G.E.K. | 5-1-56 JHF |
| 2 | DATE OF SIGNATURES — ISSUED FOR U.O. #46 UNIT NO. 5 | 10-10-55 SAR | 10-10-55 | 10-11-55 G.E.K. | 10-13-55 JHF |
| 1 | DATE OF SIGNATURES — GENERAL REVISION | 6-22-53 SAR | 6-21-53 WPC | 6-22-53 G.E.K. | 6-24-53 JHF |
| • | TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE | | | | |

# CIRC. WATER PUMP HOUSE & SCREEN WELL ARRGT. - SH. 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1/4" = 1 FT
FEB. 10, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 3-20-53 | 3-20-53 | 3-21-53 | 3-24-53 |
| SAR | WPC | G.E.K. 2/12 | JHF |

8757-FM-48

Ch. K.D. 9-24-56 R.B.W. — 9803 4/1/56 — PY 5.1.56
Ch. K.D. 7-21-55 R.B.W. — EH.K 11/1/55 APH 10-5-55 — 8810-225 — KD 10-7-55
Ch. K.D. 6-9-53 Q.248 6-10-53 — Y&H 6-19-53 — W.S. 6-11-53 — RB 6-12-53
Q.248 3-19-53 — W.S. 3-19-53 — RB 3-19-53 — RB 3-19-53

Designed by
Drawn by Z. Barcarcuras
Chk'd by
Des. Chk'd by

Engineer's Extra Prints
Ch. Engr. Gordon Strunk 8-27-57
Ch. Engr. Gordon Strunk 6-24-57
Ch. Engr. Gordon Strunk 8-27-57

SCANNED
Chalk Point
06242

Working Pt. Dimensions Shown in Plan are to these Pts.

Pc 24 WF 110. Weld to Wale with 3-⅜" welds, 6"lg. ea. side of Flange. Both only

℄ Wale 7

24 WF

3-6"x⅜" Pls. Weld to web & Flanges of 24 WF

2"a Tie Rod, Weld to web of 24 WF with 6-⅜" welds 6"lg. 3-Top & 3-Bot. ℄ Gr. +6.0'

See Typ. Rod Splice.

30° Min. 40° Max.

PLAN - BOTTOM MEMBER.

6-2"x5" Slot Welds Top Only

24 WF

Varies

PLAN - TOP MEMBER

## DETAILS - TIE RODS AT PILING

Scale ⅜"=1'-0"

⅜" weld, 3" lg. each pile to top of each wale

Weld

24 WF

PLAN

⅜" Cont. weld, Typ. Ea. wale to ea. pile.

℄ Gr. 6.0 Wale

Sheet Piling

ELEVATION

Pile

24 WF

℄ Wale

PLAN

Where Piles do not lie against wales, due to irregularities in driving, drive a reinf. bar of suitable size between wale & pile. Weld from wale to bar & bar to pile.

## WELDING DETAILS - WALES TO SHEETING

Scale ½"=1'-0"

S2

18"

1" Grout

S2

DETAIL "C"

Scale ⅜"=1'-0"

Gr. 10.0'

Base Pl. 20"x2'x2'-4"

Gr. +6.0'

"52"

Scale ½"=1'-0"

Scarf for welds from side shown: Weld to be full thickness of WF Sections

11 Pcs @ 18" = 16'-6" Top Gr. 8'-0" 42'-0" Lengths

Splice No. 22

8 Pcs @ 18" = 12'-0" Top Gr. 8'-0" 38'-0" Lengths

Splice No. 1

28 Pcs @ 18" = 42'-0" Top Gr. 8.0, 32'-0" Lengths

Mean High Water Line, 1791.

24 WF 76 (Two) 18'-0" lg.

Pc. 24 WF 110.

9'-0"

13'-0"

2"a Rod

18" 18" 18" 18" 8 Pcs @ 18" = 12'-0" Top Gr. 8.0 28'-0" Lengths

50 59.0 50 59.0 50 59.0 50 59.0 50 59.0 50 59.0 50 59.0 50 59.0

Weld Flanges

Weld.

24 WF

PLAN - BOT. PR. BMS.

Scarf Flange for welding from web side.

PLAN - TOP PR. BMS.

Scarf Flange for welding from Piling side of wale.

DETAILS - FLANGE JT. - PILING SIDE OF WALES

No Scale

Cut Slot in Piles approx. 6"x1'-6" as needed to weld flanges of top Bms. Cover Slot with ⅜" Pl. weld all around. Pl Size determined by Field.

8-2"x5" Slots Weld, Top.

24 WF

2'-0"

2'-0"

Pc. 24 WF 110 Use ⅜" intermittent weld, both ea. side.

PLAN

Sheet Piling

℄ Between Wales, Gr. +6.0'

Pc. 24 115

24 WF

24 WF 100 at Splice No. 2.

ELEVATION - VIEW TOWARD RIVER.

DETAILS - WALE SPLICES

Scale ⅜"=1'-0"

PLAN

Scale ⅜"=1'-0"

4"x1'x2'-0" Pl. 2 Req'd ea. splice.

⅜" Weld, full length, both sides.

DETAIL - TYP. ROD SPLICE

Scale 1"=1'-0"

Scarf and Weld with full penetration

47-⅝"x2'-0" Bs. ea. side, ½" Weld all around. (Typ. ea. Flange.)

PLAN - TYP. PILE SPLICE

Scale 1½"=1'-0"

Make Jt. water tight in Screen Well No. 6 Limits.

12"

12"

1"R, Typ.

ELEVATION

Scale 1½"=1'-0"

12 1.25

7¾"

8"x⅜" Pl.

28°28'13"

7¾"

8"x⅜" Pl. (Top Gr. +4.92')

14'3"

6

Top Gr. +4.50'

61°31'47"

DETAIL "B"

Scale 1"=1'-0"

DETAIL "A"

Scale 1"=1'-0"

Working Pt. Dimensions shown in Plan are to these Pts.

PLAN

15 I 50 *

PLAN

Remove Flange & Fillet so that rod will lie flat against web.

See Plan.

Restore Flg. Section with weld Deals.

Note: Weld rods to Bms. at every edge in contact. Use ⅜" weld.

ELEV.

DETAIL - ANCHOR FOR SINGLE ROD

Scale ½"=1'-0"

ELEV.

DETAIL - ANCHOR FOR TWO RODS

Scale ½"=1'-0"

73'3" to W.P. between Units 2 & 3. (See Dwg. 8757-FC-75)

Detail "A"

20'-6"

10'-9½"

2'-1⅜"

60'-0" Lengths

4 Pcs @ 18" = 6'-0"

Top Gr. 10.0'

W.P.

28°28'13"

5'-10⅝"

12 Pcs @ 18" = 18'-0" 60'-0" Lengths

Top Gr. 10.0'

Detail "C"

3'-9"

℄ Wale 24 WF 100 (Two)

24 WF 100 (Two)

See Detail "D"

14'3"

14'-0"

2-2"a Rods

2-2"b Rods

2"a Rods

Detail "B"

13'-0"

2"a Rods

2"a Rod

Working Pt. Gr. 6.75'

Unit No. 6 (Future)

53'-9"

2'-0"

2'-0"

3'-0"

2'-0"

2'-6"

Working Pts. Gr. +6.0'

2"a Rod

℄ C.W. Pumps, Units 3, 4, & 5.

Working Pt. Gr. +6.0'

9'-9"

Future Sheet Piling for Unit No. 6

14'-0"

Working Pt. Gr. +10.5'

16"

Scarf & weld

½"R Stiffs. (Typ.)

Pc. 24 WF 110 (Typ.)

24 WF

℄ Wale

28°28'13"

℄ Wale 7

24 WF

⅜" R Stiffs.

2"a Tie Rods

35°11'

38°6'30"

DETAIL "D"

PLAN - BOTTOM MEMBER (TOP MEMBER TO HAVE 6-2"x5" SLOT WELDS OVER 24 WF 110.)

Scale ⅜"=1'-0"

24 WF

½"R

Gr. 6.0'

24 WF

2"a Rods

℄ 24 WF

"54"

Scale ⅜"=1'-0"

Notes:
Scale as noted.
Material for wales to be obtained from Screenwell Cofferdam Framing except as marked thus. *
For Detail-Assembly for Straightening Tie Rods, see Dwg. VRX5017, U.O. 7301. and Typ. Rod Splice U.O. 7301.
For Concrete Details see Dwg. 8757-RC-87, RC-88, FC-89, & FC-90.
Sheet Piling to be Z.P.38.
Where Tie Rods pass through Screenwell Sheeting no connection is to be made between the two.
Field to determine number & location of Splices for Tie Rods & Piling.

APPROVED
CERTIFIED PROFESSIONAL ENGINEER, NO. 988
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | • DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

• TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE.

# BULKHEAD - SHEETING & TIE BACK DETAILS

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4

POTOMAC ELECTRIC POWER COMPANY

WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN

AUG. 26, 1953

| CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|
| 9-25-53 | 9-23-53 | 9-25-53 | 10-2-53 |
| JJG | RWC | EL | LHC |

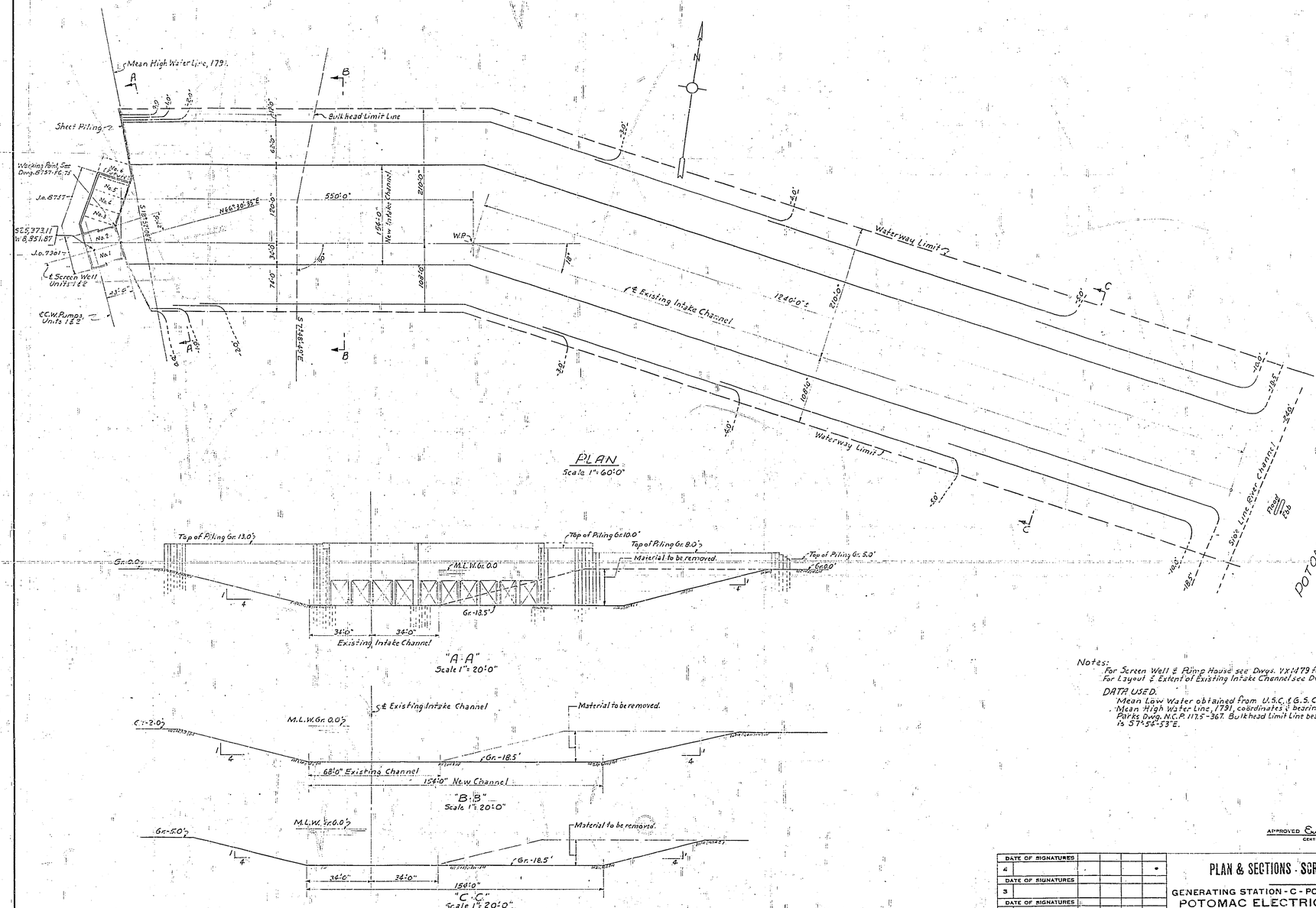
8757-FC-113

R.C. 59880

Engineer's Record Extra Prints

Designed by A. Zaskey Drawn by A. Marabito

Des. Chk'd by J. Rosciuszko Chk'd by V. Rosciauskas




PLAN
Scale 1" = 60'-0"

Notes:
For Screen Well & Pump House see Dwgs. VFX1179 for J.O.7901 & 8757-FC-87
For Layout & Extent of Existing Intake Channel see Dwg. VFX 4307, J.O.7901.

DATA USED.
Mean Low Water obtained from U.S.C. & G.S. Chart.
Mean High Water Line, 1791, coordinates & bearings shown, are taken from Capital Parks Dwg. N.C.P. 1175-367. Bulkhead Limit Line bearing on Stone & Webster Dwg. VFX4307 is S7°-56'-53"E.

APPROVED Ernest A. DeBaptiste
CERTIFIED PROFESSIONAL ENGINEER NO. 388
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | TABLE OF ADDITIONS AND CHANGES | | | | |
| | USE ONLY PRINTS OF LATEST DATE | | | | |
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

# PLAN & SECTIONS - SCREEN WELL DREDGING

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JUNE 23, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 6-26-53 | 7-11-53 | 6-12-53 | 6-24-53 |

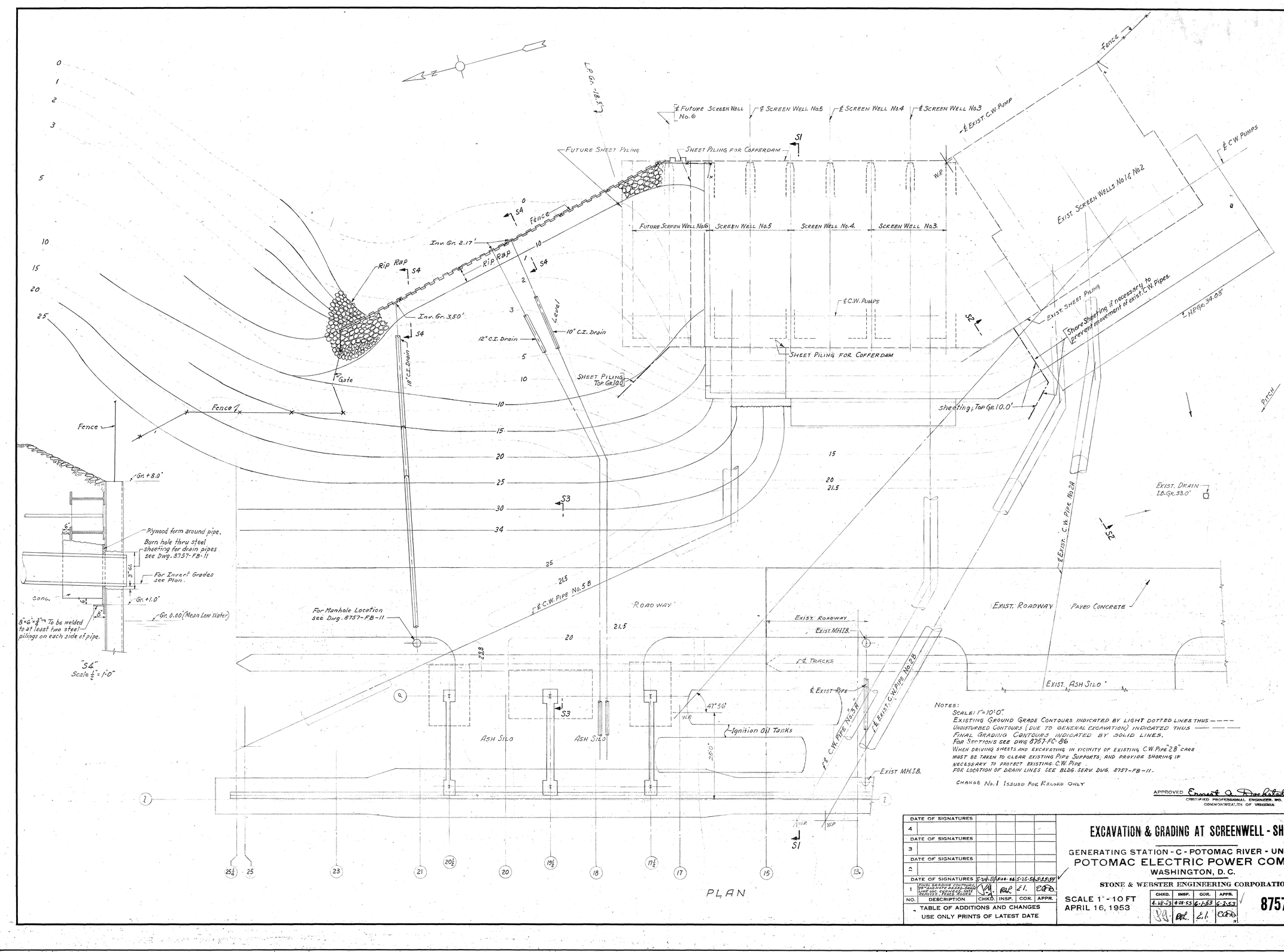
8757-FC-104

R.C. 55427

Designed by
Des. Chk'd by

Drawn by A. Morabito
Chk'd by A. F. Caskey

T. O. P. Revised 1/2




Notes:

Scale: 1" = 10'-0".

Existing Ground Grade Contours indicated by light dotted lines thus - - - -

Undisturbed Contours (due to general excavation) indicated thus ——— ——— ———

Final Grading Contours indicated by solid lines.

For Sections see Dwg. 8757-FC-86

When driving sheets and excavating in vicinity of existing C.W. Pipe 2B" care must be taken to clear existing pipe supports, and provide shoring if necessary to protect existing C.W. Pipe.

For location of drain lines see Bldg. Serv. Dwg. 8757-FB-11.

Change No. 1 Issued For Record Only

Approved Ernest A. Dorbrandt
Certified Professional Engineer, No. 588
Commonwealth of Virginia

| No. | Description | Chkd. | Insp. | Cor. | Appr. |
|---|---|---|---|---|---|
| 1 | Final grading controls, C.W. pipe 2B, 3B & 5B, new manhole, drain revised, fence added | [illegible] | Rpl | E.I. | CDD |
| 2 | | | | | |
| | Date of Signatures | 5-26-54 | 5-26-54 | 5-25-54 | 5-25-54 |
| 3 | | | | | |
| | Date of Signatures | | | | |
| 4 | | | | | |
| | Date of Signatures | | | | |

Table of additions and changes
Use only prints of latest date

# EXCAVATION & GRADING AT SCREENWELL - SHEET 1

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4

POTOMAC ELECTRIC POWER COMPANY

WASHINGTON, D. C.

STONE & WEBSTER ENGINEERING CORPORATION

Scale 1" - 10 ft

April 16, 1953

| Chkd. | Insp. | Cor. | Appr. |
|---|---|---|---|
| 4-28-53 | 4-28-53 | 6-1-53 | 6-2-53 |
| RPG | Rpl. | E.I. | CDD |

8757-FC-85

R. C. 58091

Chkd. J.C.J. 2/24/54 H.H.C. 2-25-54 6-21-54 R.E.B. 5-21-54

Designed by

Drawn by H.H. Cohen

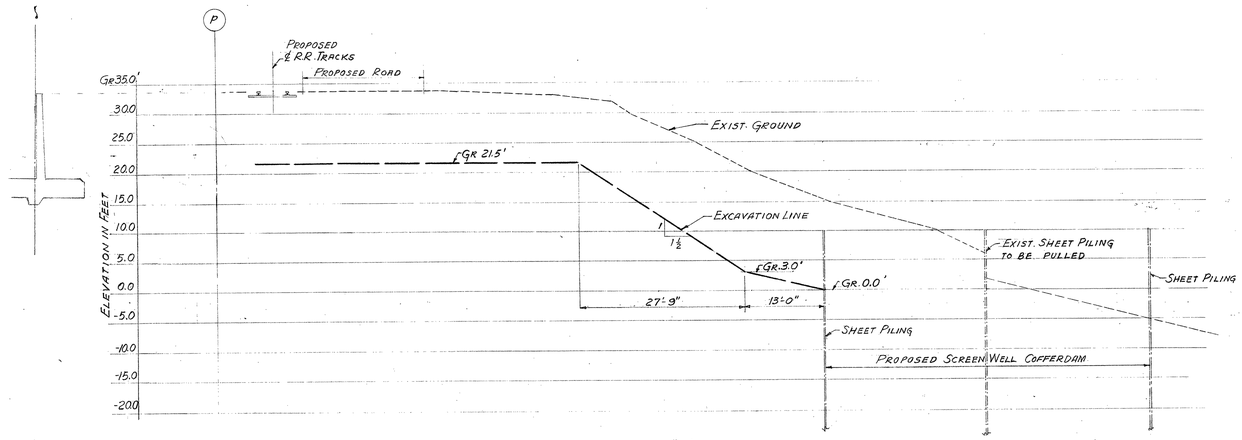
Engineer E. IRELAND

Extra Prints

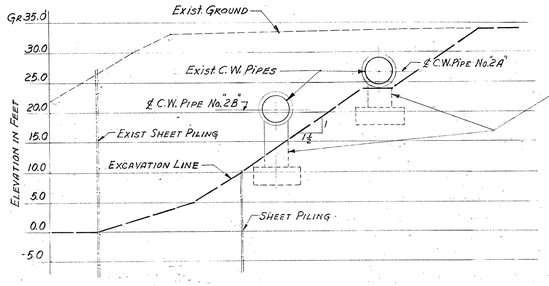
Sheet No.

Dr. Green

Returned

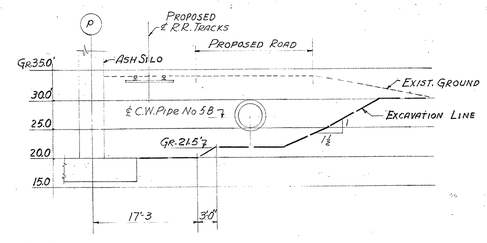



SECTION "S1"
SCALE: HORIZONTAL: 1"= 10'-0"
VERTICAL: 1"= 10'-0"




Existing C.W. Pipes & Supports must be protected at all times against possible undermining of supports or lateral displacement of pipes due to unbalanced lateral forces against the pipes

"S2"
SCALE: HORIZONTAL: 1"=10'-0"
VERTICAL: 1"=10'-0"




"S3"
SCALE: HORIZONTAL: 1"=10'-0"
VERTICAL: 1"=10'-0"

Notes
Scale as noted.
For Location of Sections see Dwg 8757-FC-85

ISSUED FOR EXCAVATION ONLY

APPROVED Ernest J. Dorfstaler
CERTIFIED PROFESSIONAL ENGINEER, NO. 566
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# EXCAVATION & GRADING AT SCREENWELL - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1" - 10 FT
APRIL 16, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 4-28-53 | 4-22-53 | 6-1-53 | 6-2-53 |
| [signature] | RHL | E.I. | [signature] |

8757-FC-86

R.C. 58092

Designed by
Des. Chk'd by

Drawn by H.H. COHEN
Chk'd by F.C. Fisher

Engineer E.J. IRELAND

Extra Prints 4 2 1

RETURN To R. GERWIN 89/2

PLAN - EL. -18.0'

PLAN - GR. -18.0'

PLAN - DET. 'A'
Outline South-East Corner at Gr. 10.00' see S-9

S-1

S-2
S-3 Sim. opp. hand except as noted

S-3

S-4
Typical Sump Reinf.

S-5

S-6
Typ.

S-6
Scale: 3/4"=1'-0"

S-7
Typ.

S-9
After 3rd Wall pour
South Wall sim. except as shown
△ denotes Gr. 10.00'

S-10

Notes:
Scale 1/4"=1'-0" unless otherwise noted
Concrete ultimate strength at 28 days to be 3000 lbs. per sq. in.
For location Screen Well see dwg. V.X 382
For Sections not shown & other outline details see dwgs. V.X 1480, V.X 1481, V.F.X 1922, V.B.X 2016, V.B.X 2017, V.R.X 3272, V.R.X 3273, V.F.X 1921.
For other reinf. dets. see dwgs. V.F.X 1921, 1922, V.X 1480, V.R.X 2016, 2017.
All reinforcing bars to be deformed.
Continuous bars to lap 40 bar diams. at splices.
Unless otherwise shown, clear distance from face of concrete to reinf. to be 2".
For Sheet Piling & Bracing details see dwg. V.R.X 3095 & V.F.X 3614
For Pump House Roof details see dwgs. V.R.X 2864 & V.R.X 3272
For Pump House Wall details see dwgs V.F.X 1922 & V.B.X 2017.
For Trash Rack & Trash Rack Guide details see dwg. V.X 1052
For Tunnel details see dwg. V.F.X 1865.
For Revolving Screen details, Guides & Anchor Bolt locations see Mfrs. Dwgs.
For details of Circulating Water Lines, see Mech. Dwgs.
For details of Circulating Water Pump Base Rings see V.S.X 4906
For Circulating Water Pump House & Screen Well Arr. see Mech. Dwg. V.W.S. & I.
For Conduit details see Elec. Dwgs.
For details of Steel Stairs & Walkway, Roof Hatch Covers, Crawler Crane Bumper Plate, Pipe Rails, Gratings & Frames, Trash Rake Car Rails & Supports, Ladder Rungs, Anchor Bolts, Trash Rake Hoist Frame & Misc. Iron details, see Misc. Iron Detail Dwgs.
For Bulkhead details see V.R.X 5017.

O - Denotes Reinf. bars at East end to be carried through lower cross bracing. See Bracing Dwg.

Dimensions marked ℄ are true dimensions, allowance has been made in design for 6" deviation either way.

For Bulkhead Brg. Pl. Dets. see V.R.X 5017. For Outline Dets. see V.R.X 3273 and V.X 1481

For Bulkhead Brg. Pl. Dets. see V.R.X 5017. For Outline dets. see V.X 1481 & V.R.X 3273.

For additional roof ℄ for dets. of Bulkhead Brg. Pl. & Sump outside face of North & South walls, see V.X 1281 & V.R.X 3273

Pocket at Trench for S3

For Outline S-3 (South Wall) see Det. 'A'

REINFORCEMENT SCHEDULE

| Group No. | Size | Spcg. | Remarks |
|---|---|---|---|
| 201 | 1" | 9"oc. | top cont. ext. hook at sumps |
| 202 | #8 | 15"oc. | top cont. ℄ hook at sumps |
| 203 | #6 | 15"oc. | do. |
| 204 | #8 | 15"oc. | do. |
| 205 | 1" | 9"oc. | bott. cont. |
| 206 | #6 | 13"oc. | bott. |
| 207 | #6 | 15"oc. | bott. |
| 208 | 1" | 9"cc. | 4 reqd. 15'6" lg. top |
| 209 | 1" | 9"oc. | 4 reqd. 16'0" lg. top |
| 210 | #8 | 12"oc. | 3 reqd. 8'0" lg. top |
| 211 | #7 | 12"oc. | N.F. 11' ℄ cont. faths. vary 1½" |
| 212 | #8 | 12"oc. | F.F. 11' ℄ cont. faths. vary 1½" |
| 213 | #8 | 12"oc. | F.F. |
| 214 | #8 | 12"oc. | N.F. |
| 215 | 1¼" | 9"oc. | 6 stubs, see S-7 |
| 216 | #8 | 15"oc. | do. 16' ℄ reinf. |
| 217 | #8 | Spcg. as shown | 11 stubs, size same as 216 |
| 218 | 1" | 15"oc. | bott. extra 3 reqd. ⊂ ⊃ |
| 219 | 1¼" | | 6 reqd. top layer ⊂ ⊃ |
| 220 | 1¼" | | 10 reqd. @ side top layer |
| 221 | 1¼" | | 6 reqd. bott. layer ⊂ ⊃ |
| 222 | #8 | 18"oc. | 12 reqd. E.F. |
| 223 | #8 | | 14 reqd. E.F. All with Stirrups |
| 224 | #8 | | 15 sets reqd. 14 eq. spcs. |
| 225 | 1" | | 4 reqd. |
| 226 | 1" | 3'0"oc. | Spacers 3'6" lg. |
| 227 | 1¼" | | 3 reqd. |
| 228 | 1¼" | deqs. | p10 stubs 3 E.F. same as 215 |
| 229 | #8 | 12"oc. | |
| 230 | 1" | 12"oc. | N.F. |
| 231 | 1" | 12"oc. | F.F. |
| 232 | 1" | 12"oc. | N.F. 9'0" lg. |
| 233 | 1¼" | 12"oc. | F.F. 9'0" lg. |
| 234 | 1" | 12"oc. | F.F. 13'6" lg. |
| 235 | 1" | 12"oc. | N.F. ext. 2' hook at trench |
| 236 | 1" | 12"oc. | N.F. hook at trench |
| 237 | 1¼" | 12"oc. | N.F. |
| 238 | 1¼" | 12"oc. | F.F. |
| 239 | 1¼" | 12"oc. | N.F. |
| 240 | 1" | 12"oc. | F.F. |
| 241 | #8 | 12"oc. | stubs, see V.R.X 3273 |
| 242 | #8 | 12"oc. | stubs do. |
| 243 | 1" | 12"oc. | F.F. hook of trench |
| 244 | 1" | 12"oc. | N.F. |
| 245 | 1" | 12"oc. | N.F. |
| 246 | 1¼" | 12"oc. | 4 stubs, top at Gr. +14.0 |
| 247 | 1¼" | 16"oc. | 4 stubs, top at Gr. +14.0 |
| 248 | 1" | 15"oc. | 5 stubs, Fill with 214, Top Gr. +14.5 |
| 249 | 1" | 12"oc. | stubs E.F. Top Gr. +14.5 |
| 250 | 1¼" | 12"oc. | N.F. top at Gr. +4.5, 4 reqd. |
| 251 | 1¼" | 16"oc. | do. do. |
| 252 | 1" | 15"oc. | do. All with 254, 3 reqd. |
| 253 | 1" | 9"oc. | F.F. top at Gr. +4.5 8 reqd. |
| 254 | #8 | 15"oc. | N.F. Top at Gr. +5.75 |
| 255 | #8 | 15"oc. | E.F. Top at Gr. 7.75 |
| 256 | #8 | 15"oc. | E.F. top 2nd pour Gr. +11', top 3rd pour Gr. +13.5', cut to clear openings at deck |
| 257 | 1" | 12"oc. | N.F. 12" |
| 258 | 1¼" | 11"oc. | 10 reqd. bottom as same as 207 |
| 259 | 1¼" | Spcg. as shown | 29 reqd. ea. bm. Top |
| 260 | #8 | 12"oc. | F.F. |
| 261 | #8 | 12"oc. | N.F. |
| 262 | #8 | | S.E.F. 30" ⊂ cents ⊃ 30" |
| 263 | 1¼" | 18"oc. | 1'-9" lg. @ Gr. 20.0', 36 reqd. |
| 264 | #8 | 13"oc. | 4 stubs 45° same as 6 All with 212 |
| 265 | #8 | | 1 N.F. Top Gr. -5.75' |
| 266 | #8 | 15"oc. | E.F. see S4 & S6 ⊂ 2'-10" ⊃ |
| 267 | 1¼" | 12"oc. | 4 E.F. cont. All with 211 & 212 |
| 268 | #8 | 12"oc. | See S18 on V.R.X 3273 ⊂ 7'-3" ⊃ |
| 269 | 1" | 6"oc. & 6"oc. | Detail: Top stair as 501, 505 |
| 270 | 1" | 3'6"oc. | Spirs. |
| 271 | 1¼" | | Shown 6 reqd. |

APPROVED Ernest A. Dorbstadter
CERTIFIED PROFESSIONAL ENGINEER NO. 988
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| 3 | DATE OF SIGNATURES 3-3-49; OUTLINE & REINF. CHANGES | 3-2-49 | 3-7-49 | 3-7-49 | 3-7-49 |
| 2 | DATE OF SIGNATURES 11-24-48; PIPE SLEEVE ADDED. | 12-15-48 | 12-21-48 | 12-21-48 | 12-21-48 |
| 1 | DATE OF SIGNATURES 10-5-48; FINISH OUTLINE CHANGED, REINF. REVISED & ADDED, NOTES & DETAIL ADDED | 10-5-48 | 10-7-48 | 10-14-48 | 10-14-48 |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & PUMP HOUSE - SHEET 1

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

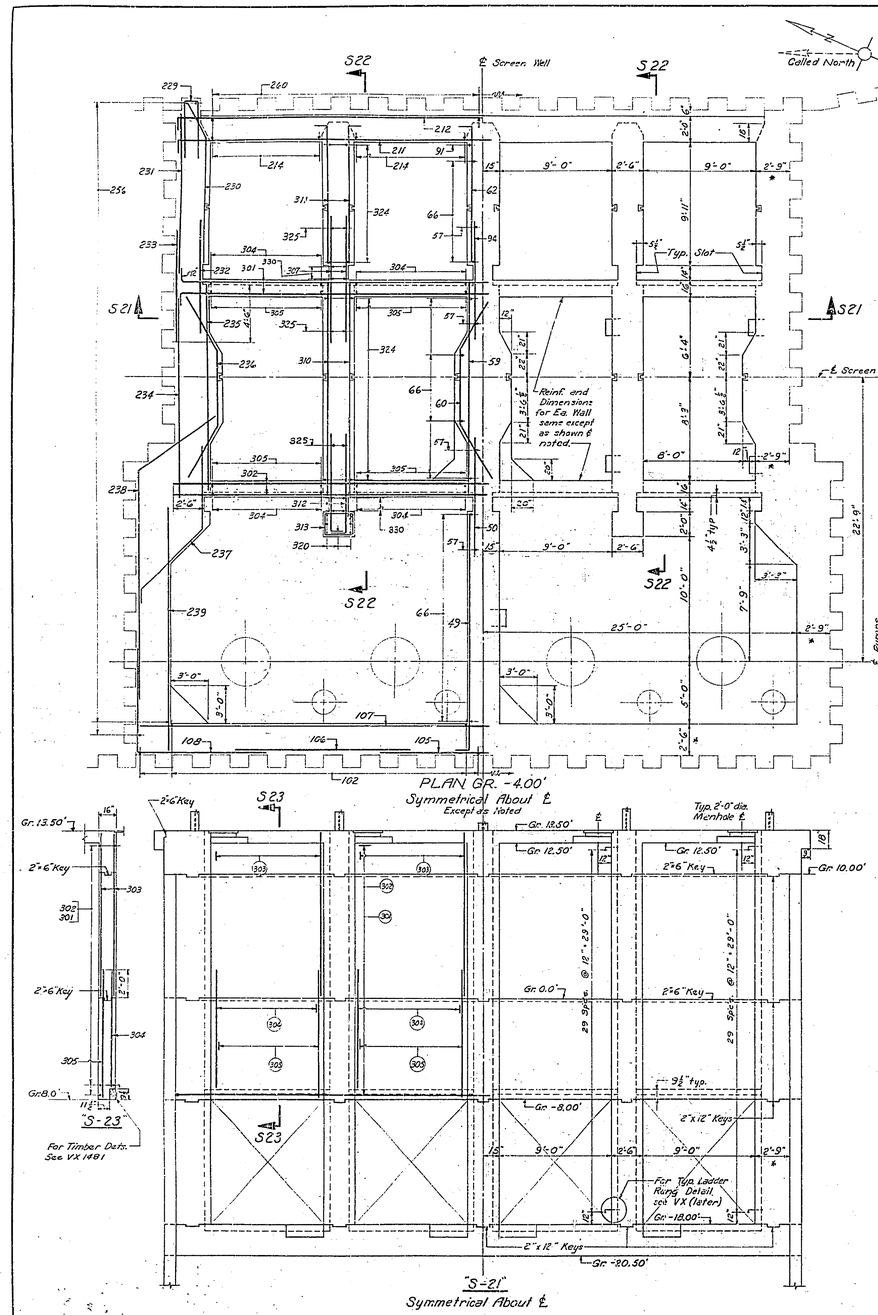
SCALE GIVEN
MAR. 9, 1948
J. O. NO. T901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5/14/48 | 5-14-48 | 5-21-48 | 6-19-48 |

V X 1479

S.C. 102250

Issued for Bids 5/14/48
Issued for Const. 6-19-48
Drawn by H.H. Wolfenden
Dwg. Chkd. by C.C. Dashiell




## REINFORCEMENT SCHEDULE

| Group No. | Size | Spcg | Remarks |
|---|---|---|---|
| 301 | #4 | 12" | E.F. Hook Ends below Gr. 12.0' |
| 302 | #4 | 12" | do. |
| 303 | #5 | 12" | E.F. |
| 304 | #4 | 12" | E.F. |
| 305 | #5 | 12" | E.F. |
| 306 | #9 | 12" | E.F. |
| 307 | 1"□ | 12" | E.F. 10'-0" lg. lengths vary Bend where necessary |
| 308 | 1"□ | 12" | E.F. 11'-2" lg. |
| 309 | 7/8"□ | 12" | E.F. Alt. with non-rein. Reinf. |
| 310 | 1"□ | 12" | E.F. |
| 311 | 1"□ | 12" | E.F. |
| 312 | 1"□ | 12" | E.F. 0'-0" 12" |
| 313 | 7/8"□ | 15" | |
| 314 | 1"□ | 9" | E.F. |
| 315 | 1"□ | 9" | E.F. - 10'-0" lg. |
| 316 | 1"□ | 9" | E.F. |
| 317 | 7/8"□ | | 5 |
| 318 | 7/8"□ | 15" | E.F. Cut when necessary |
| 319 | 3/4"□ | | 4 - E.E.F. |
| 320 | 7/8"□ | | 7 |
| 321 | 7/8"□ | | 7 |
| 322 | 7/8"□ | | 4 |
| 323 | 3/4"□ | | 2 |
| 324 | 7/8"□ | 15" | E.F. |
| 325 | 3/4"□ | | 2 |
| 326 | 7/8"□ | 15" | E.F. |
| 327 | 1 1/4"□ | 9" | 3-E.F. - 15'-0" lg. |
| 328 | #4 | 15" | lgths. vary |
| 329 | #4 | | 4 |
| 330 | #4 | | 4 |

Notes:
Scale: 1/4" = 1'-0"
For General Notes see VX 1479
For Dimensions not shown on "S-22" see "S-41" Dwg. VX 1491.
All keys to be 2'x 10" unless otherwise noted
Cl. dist. from face of Conc. to Reinf. to be 2" unless otherwise shown.
Dimensions marked # are true dimensions. Allowance has been made in design for 6" deviation either way.
For Reinf. Bars 49-92 on Plan see VFX 1951
For Reinf. Bars 182-100 on Plan see VFX 2016.
For Reinf. Bars 211-260 on Plan see VX 1479
For dets. Bulkhead see VRX 5017.

APPROVED Ernest A. Dreyfous
CERTIFIED PROFESSIONAL ENGINEER NO. 388
COMMONWEALTH OF VIRGINIA

| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | | | | |
| DATE OF SIGNATURES | | | | |
| 3 | | | | |
| DATE OF SIGNATURES | | | | |
| 2 | | | | |
| DATE OF SIGNATURES | 10-2-51 | 10-3-51 | 10-4-51 | 10-5-51 |
| 1 | OUTLINE CHANGES DETAILS, DIMENSIONS, NOTE ADDED | RWB | BRC | WSS |
| NO. | DESCRIPTION | CHKD. | INSP. | CONST. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & PUMP HOUSE - SHEET 2

DETACHED STRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY INC
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAR. 9, 1948
J. O. NO. 7001

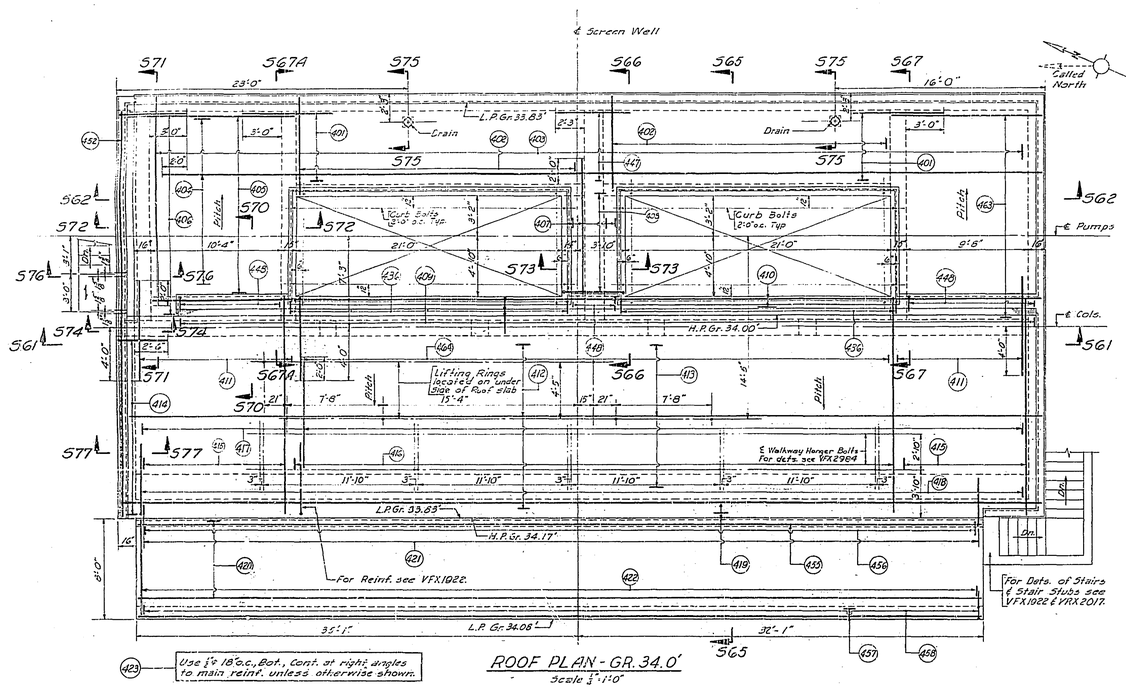
| CHKD. | INSP. | CONST. | APPR. |
|---|---|---|---|
| 5-20-48 | 5-20-48 | 6-2-48 | 6-8-48 |
| | RWB | WSS | BRC |

V X 1480

R.C. 107307

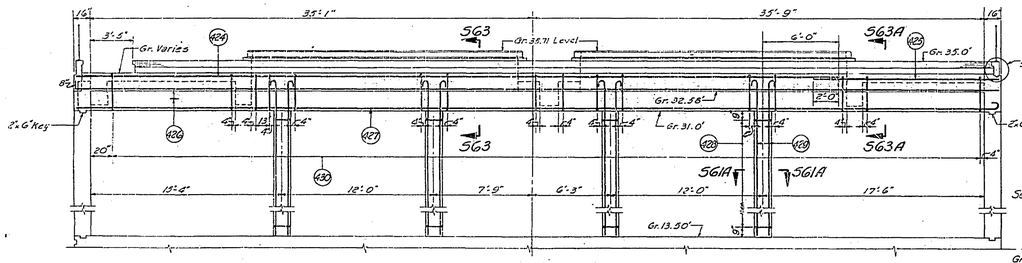
Designed by L.E. Amy Drawn by W. Soule
Des. Chk'd by Allinson & Tevlin Chk'd by J.C.

DET-STRAP ANCHOR
1"x3/16"x0'5" lg. 3-Req. each Thimble
Scale: 3"=1'-0"
FLAN-THIMBLE DET.
For Chlorine Lines adjacent to Service Water Pumps
4-Required
Scale: 1½"=1'-0"
"S-60"
"S-43"
"S-44"
"S-42"
"S-45"
"S-46"
"S-47"
"S-48"
"S-49"
"S-50"
"S-51"
"S-52"
"S-53"
"S-54"
Typical Pier Det.
4 Reqd.
"S-55"
"S-59"
"S-41"
"A-A"
PLAN - DECK - GR. 13.5'
ELEVATION TIMBER DET.
8-Reqd.
℄ Screen Well
℄ Screen Guide
℄ C.W. Pumps
℄ Screen Wash Pump
Tar Paper Joint
2"x6" key
Sheet Piling
Scrap Sheet Piling Use as retaining wall Locate in field
Lean Conc. for Stub Protection
For Dets. of Handrail See VFX2984
For Dets. of Track, Beams, & Anchor Bolts see VFX 2985 & VFX2984
For Dets. of Bulkhead Brg. ℞ see VRX 5017
For det. of Hoist Structure & Type "13" Bolts see VFX 2984 & VFX 2985.
For Dets. of Grating & Frames See VFX2985
24" Manhole Cover & Frame (Typ.) 12 Reqd.
Type "9" Bolts see VFX 2984. For location see Link Belt dwg. PK149381
For Dets. of Trench this Area see VRX3272
For Dets. of Stairs & Platform See VRX 2017
For Inspection platform Dets. see VRX3273
For Dets. of Window Opg. See VRX 2017
For Dets. of Screen Guide see Link Belt Dwg. 342W109
For Handgrip Det. see VFX 3517
For Typ. Rung Det. See VFX 3517
See Timber Det.
For Dets. of Trash Rack see VX1052
Grade to be determined in field after Rack Grooves are in place
Concrete fill 12" thick added by field.
Pocket 1" deep for Granolithic Sill; see VRX2017
Roof Drain Pipe; see Notes.
10" I.D. Pipe Thimbles 8'-0" lg. Top Gr. 13.75.
3" Pipe Sleeve 21" lg. Top Gr. 13.75 8-Required
For Dets. of Curb Ring & bolts see Mech. Dwg. V3X 4906
Typical Service Water Pump Base 4-Required
Type "A" Fl. drain For Dets. see Dwg. VFX3517
Type "B" Fl. drain
Type "17" Bolts see VFX2984 For location see Mfgr. Dwgs.
For dets. of Pipe Supports & Type "2d" Bolts see VFX 2984 & VFX (later)
Floor Gr. 13.50'
For Dets. of Tunnel see VFX1865
Fill Pockets with grout when track is set.
Note: Typical for all Piers
Notes:
Scale 3/8"=1'-0" unless otherwise noted.
For Sections "S130" & "S131" see VRX 2016.
Dimensions marked thus: Δ are theoretical dimensions. Actual dimension depends on how piles are driven.
For Sections "S132", "S133", "S56", "S57" & "S58" see VRX3272.
For General Notes see VX 1479
For Roof Drain Pipe Sleeves see VFX 3517, for loc. see VRX 2864.
For Dets. of Bulkhead see VRX 5017.
For Sects. "S37", "S40" see VRX3273.
APPROVED
CERTIFIED PROFESSIONAL ENGINEER NO. 1 COMMONWEALTH OF VIRGINIA
DATE OF SIGNATURES
NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR.
3 CONCRETE FILL ADDED DIMENSIONS CORRECTED
2 PIPE SLEEVES ADDED ANCH. BOLTS ADDED
TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE
SCREEN WELL & PUMP HOUSE SHEET 3
DETACHED STRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY INC
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION
SCALE GIVEN
MAR. 9, 1948
J.O. NO. 7901
V X 1401
Drawn by - R.C. Southwick
Dwg. Chkd by

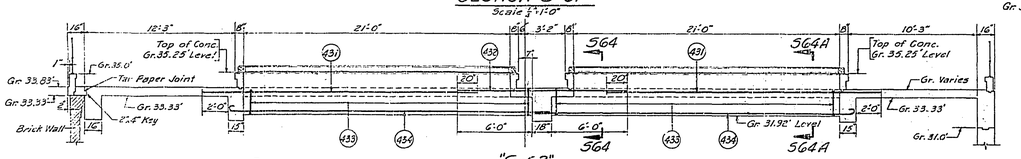



ROOF PLAN - GR. 34.0'
Scale $\frac{1}{8}$"=1'-0"

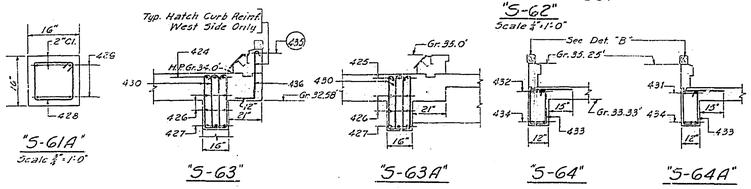
Use $\frac{5}{8}$"ø 18"o.c., Bot., Cont. at right angles to main reinf. unless otherwise shown.




SECTION "S-61"
Scale $\frac{1}{8}$"=1'-0"



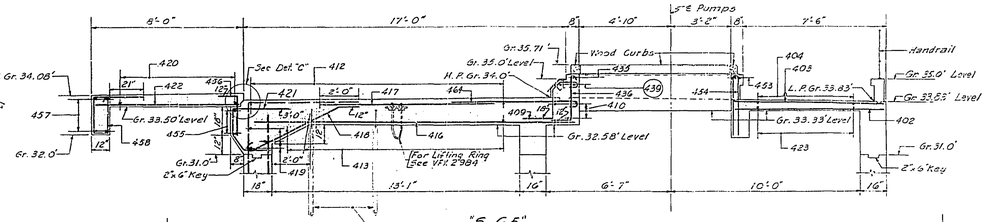

"S-62"
Scale $\frac{1}{8}$"=1'-0"



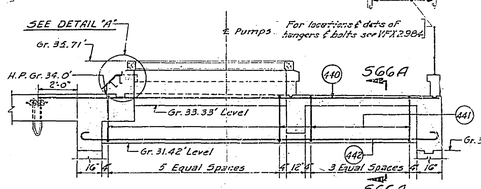

Scale $\frac{3}{4}$"=1'-0"



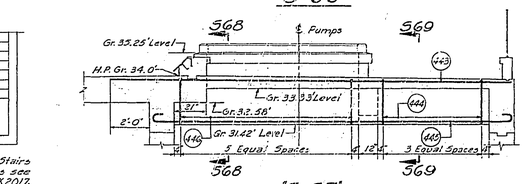

TYPICAL CURB DETAIL
EAST & SOUTH SIDES OF ROOF ONLY
Scale $\frac{3}{4}$"=1'-0"



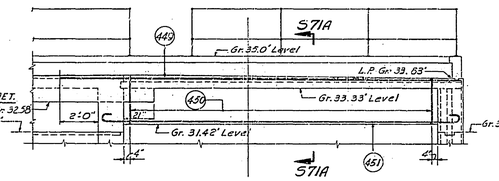

"S-65"



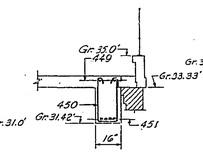

"S-66"




"S-67"
"S-67A Sim. Opp. Hand



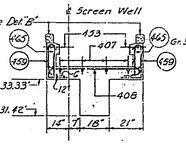

"S-71"



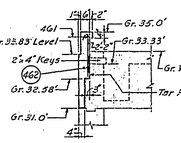

"S-71A"



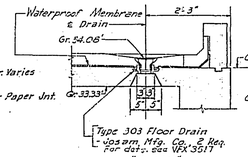

"S-72"

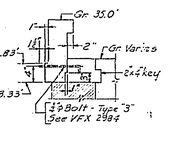



"S-73"

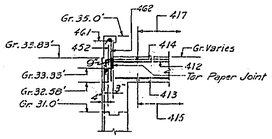



"S-74"

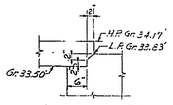


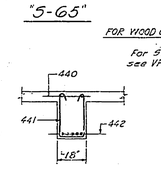

"S-76"
Scale $\frac{1}{4}$"=1'-0"



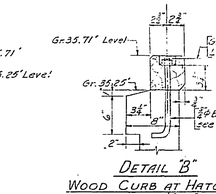

"S-77"



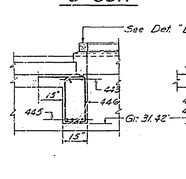

DETAIL "C"
Scale: $\frac{3}{4}$"=1'-0"



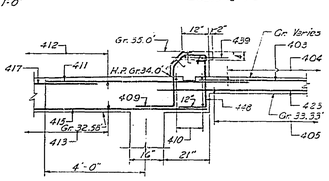

DETAIL "A"
Scale $\frac{1}{4}$"=1'-0"




DETAIL "B"
WOOD CURB AT HATCHES
Scale $\frac{1}{2}$"=1'-0"




"S-68"
"S-69"




"S-70"
Scale $\frac{1}{4}$"=1'-0"

REINFORCING SCHEDULE

| Group | Size | Spacing | Remarks |
|---|---|---|---|
| 401 | ⅝ø | 12" | Top 7'-3"lg. |
| 402 | ⅝ø | 12" | Bot. |
| 403 | ⅝ø | 18" | Top, Cont., Cut at opng |
| 404 | ⅝ø | 18" | Top, Cont., Cut at opng |
| 405 | ¾ø | 11" | Bot. |
| 406 | ¾ø | 11" | Top. |
| 407 | ⅝ø | | 4 Top |
| 408 | ⅝ø | 12" | Top. |
| 409 | 1"ø | 9" | |
| 410 | ⅝ø | | 3 Cont. |
| 411 | 1"ø | 9" | Top 8'-0"lg. |
| 412 | ⅝ø | 12" | Top. |
| 413 | ⅝ø | 12" | Bot. |
| 414 | ¾ø | 8" | Top |
| 415 | 1"ø | 9" | Bot. |
| 416 | 1"ø | 6" | Bot. |
| 417 | ⅝ø | 12" | Top, 9'10½"lg. |
| 418 | ⅝ø | 12" | |
| 419 | ⅝ø | | 3 Bot. |
| 420 | ⅝ø | 12" | Bot. |
| 421 | ⅝ø | 12" | |
| 422 | ⅝ø | 12" | Bot. |
| 423 | ⅝ø | 18" | See Note below PLAN |
| 424 | 1¼"ø | | 3 Cont. |
| 425 | ⅝ø | | 3 |
| 426 | ⅝ø | | 4 Cont. |
| 427 | 1¼"ø | | 3 Cont. |
| 428 | ⅜ø | 16" | Typ. 4 col. |
| 429 | 1"ø | | 16 - 4 Ea. col. |
| 430 | ⅝ø | 12"± | Except as shown. |
| 431 | ⅝ø | | 2 Top |
| 432 | 1"ø | | 4 |
| 433 | ¾ø | 2'-0" | |
| 434 | 1"ø | | 3 |
| 435 | ⅝ø | | 1, Cont. |
| 436 | ⅝ø | 9" | |
| 437 | ⅜ø | | 2 Cont. |
| 438 | ⅝ø | 18" | Bend where necess |
| 439 | ⅝ø | | 2 Cont., Top of bum |
| 440 | ⅝ø | | 2 Top |
| 441 | ⅝ø | | Spsng. as shown. |
| 442 | 1"ø | | 5 Bot. |
| 443 | ⅝ø | | 2 Top |
| 444 | ⅝ø | | Spsng. as shown. |
| 445 | 1"ø | | 4 Bot. |
| 446 | ⅜ø | | Spsng. as shown. |
| 447 | ⅝ø | 12" | 6'-0"lg. |
| 448 | ⅝ø | 9" | |
| 449 | ⅝ø | | 2 Top |
| 450 | ¾ø | 2'0± | |
| 451 | 1"ø | | 4 Bot. |
| 452 | ⅝ø | | 1 Cont. See "S-72" |
| 453 | ⅝ø | | 1 Cont., Top |
| 454 | ⅝ø | 12" | Alternate |
| 455 | ⅝ø | | 2, Cont. |
| 456 | ⅝ø | 12" | |
| 457 | ⅝ø | | 4 - 2 Top & 2 Bot., Co |
| 458 | ⅝ø | 12" | |
| 459 | ⅝ø | 2'-0" | Alternate with 463 |
| 460 | ⅝ø | 12" | 18" |
| 461 | ⅝ø | | 1, Cont., Top of cu |
| 462 | ⅝ø | 12" | 16 |
| 463 | ⅝ø | 11" | Bott |
| 464 | 1"ø | 9" | Top |
| 465 | ⅝ø | 2'-0" | Alternate with 459 |

Notes:
Scale $\frac{1}{8}$"=1'-0" unless otherwise noted.
Concrete ultimate strength at 28 days to be 3000 lbs. per sq. in.
For Steel Stairs, Handrails, & other misc. iron see VFX 2984, VFX 2985, VFX 3017.
Unless otherwise noted, clear distance from face of concrete to reinf. to be ± 2" in beams & 1" in slabs.
All reinf. to be deformed bars & to lap 40 diams where cont.
For membrane & traffic top see VFX 3212

APPROVED Ernest A. Dobstadt
CERTIFIED PROFESSIONAL ENGINEER No. 4488
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | 10-8-48 | G.E.M. | 10-11-48 | G.E.M. |
| 1 | ADDED CHORD HOLD DOWN ANGLES, ADDITIONS AND CHANGES. | [illegible] | [illegible] | [illegible] | [illegible] |
| | TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE | | | | |

# SCREEN WELL & PUMP HOUSE - SHEET 4

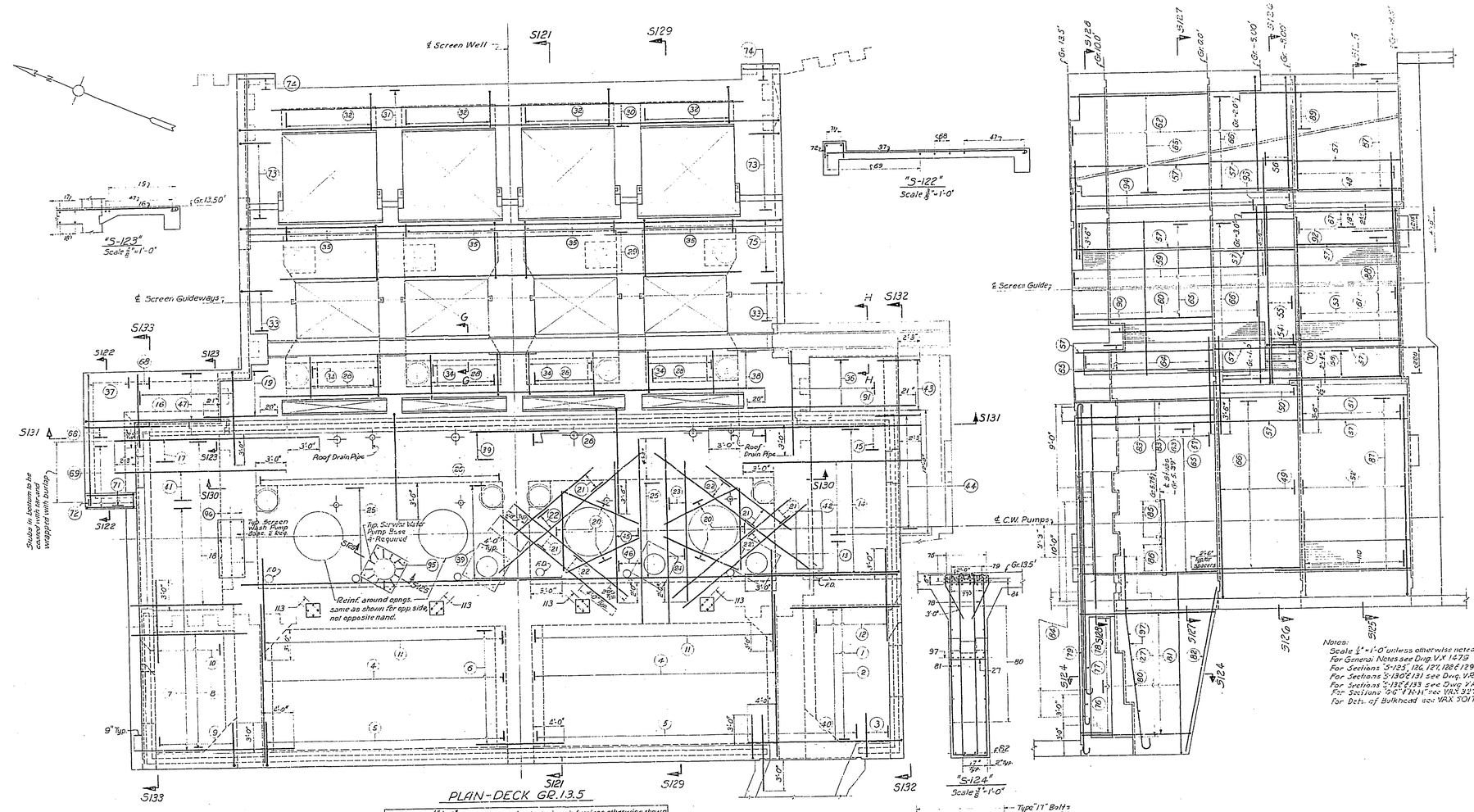
DETACHED STRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAY. 4, 1948
J. O. NO. 7901

| | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|
| | 5-14-48 | 5-24-48 | 6-2-48 | 6-3-48 |

VRX 256

Drawn by:- R. C. Southwick
Engr. Chrgd by:- J. C. Colli




## REINFORCEMENT

| Group | Size | Spcg. | Remarks |
|---|---|---|---|
| 1 | 15/8 | 12" | Top |
| 2 | 15/8 | 12" | Bott. |
| 3 | 15/8 | 12" | Top |
| 4 | 15/8 | 12" | Bott. |
| 5 | 15/8 | 12" | Top |
| 6 | 15/8 | 12" | Top; -16'-6" |
| 7 | 15/8 | 12" | Top |
| 8 | 15/8 | 12" | Bott. |
| 9 | 15/8 | 12" | Top. Same as 3 |
| 10 | 15/8 | 12" | Top; -8'-0" |
| 11 | 15/8 | 12" | Top; -10'-0" See Note A |
| 12 | 15/8 | 12" | Top; -8'-0" |
| 13 | 15/8 | 12" | Top |
| 14 | 15/8 | 12" | Bott. |
| 15 | 15/8 | 12" | Top |
| 16 | 15/8 | 12" | Top |
| 17 | 15/8 | 12" | Top |
| 18 | 15/8 | 12" | Bott. |
| 19 | 15/8 | 12" | Top |
| 20 | 15/8 | 12" | 5'-0" 12 Bars, 3 Sets, 2 Top 2 Bott. as Shown |

| Group | Size | Spcg. | Remarks |
|---|---|---|---|
| 21 | #8 | | 5 Bott. Lengths vary |
| 22 | #8 | 6" ± | 5 Top. Lengths vary |
| 23 | #8 | | 5 Bott. 13'-5" |
| 24 | #8 | | 5 Top 13'-0" |
| 25 | 15/8 | 12" | Bott. |
| 26 | 1¾ | 12" | Top |
| 27 | 3/16 | 2'-6" | Spacers |
| 28 | 15/8 | 12" | Bott. |
| 29 | 15/8 | 12" | Bott. Continuous |
| 30 | 15/8 | 12" | Bott. Continuous |
| 31 | 15/8 | 12" | Top. Continuous |
| 32 | 15/8 | 12" | Top |
| 33 | 15/8 | 12" | Top |
| 34 | 15/8 | 12" | Top |
| 35 | 15/8 | 12" | Top |
| 36 | 15/8 | 12" | Top |
| 37 | 15/8 | 12" | Top |
| 38 | 15/8 | 12" | Top |
| 39 | 15/8 | 12" | Top |
| 40 | 15/8 | 12" | Top 8'-6" |
| 41 | 3/16 | 12" | Top |
| 42 | 3/16 | 12" | Top |
| 43 | 15/8 | 12" | Top |
| 44 | 1½ | 12" | Top |
| 45 | 1½ | | Bott. 4 - 14'-0" lg. 2 Sets of 2 Stirrups 2 Sets of 3 Stirrups |
| 46 | 1½ | | Top. 4 - 18'-6" lg. 2 Sets of 2 Stirrups |
| 47 | 3/16 | 12" | Top |
| 48 | 1⅛ | 9" | E.F. |
| 49 | 1⅛ | 12" | E.F. |
| 50 | 1⅛ | 9" | E.F. 9'-6" lg. |
| 51 | 1⅛ | 9" | E.F. 9'-6" lg. |
| 52 | 1⅛ | 9" | E.F. |
| 53 | 7/16 | 9" | E.F. |
| 54 | 1⅛ | | 4 E.F. |
| 55 | 1⅛ | | 4 E.F. |
| 56 | 1⅛ | 12" | E.F. |
| 57 | 1⅛ | | E.F. 14th. varies. Ties as required |
| 58 | 1½ | | 1 E.F. |
| 59 | 1⅛ | 12" | E.F. |
| 60 | 1⅛ | 12" | E.F. |
| 61 | 7/16 | 9" | E.F. |

| Group | Size | Spcg. | Remarks |
|---|---|---|---|
| 62 | 1⅛ | 12" | E.F. |
| 63 | 1⅛ | 12" | E.F. |
| 64 | 1⅛ | 12" | E.F. @ 9'-6" lg. |
| 65 | 7/16 | 12" | E.F. |
| 66 | 7/16 | 12" | E.F. |
| 67 | 12" | | 3 E.F. |
| 68 | 3/16 | | 3 Top |
| 69 | 3/16 | 12" | 3 Top |
| 70 | 7/16 | | 2 E.F. 2'-5" 2'-5" |
| 71 | 1½ | | 2 Top or Step |
| 72 | 1½ | 12" | In Step |
| 73 | 5/16 | 12" | Top |
| 74 | 7/16 | | 2 Top |
| 75 | 5/16 | 12" | Top. Continuous |
| 76 | 1¼ | | 2 Top Layer - 8 Middle Layer |
| 77 | 1¼ | | 6 |
| 78 | 5/16 | | 14 E.F. Alternate with Stirrups |
| 79 | 1¼ | | 9 |
| 80 | 7/16 | 18" | 6 E.F. |
| 81 | 7/16 | | 15 in 14 Eq Spaces |
| 82 | 1" | | 4 |
| 83 | 1¼ | | 3 |

| Group | Size | Spcg. | Remarks |
|---|---|---|---|
| 84 | 1¼ | | Spcrs. between reinf. layers |
| 85 | 5/8 | | Stubs, see VFX 3273 |
| 86 | 1/8 | | Stubs M.F. do. |
| 87 | 7/16 | 12" | E.F. |
| 88 | 1" | 12" | E.F. |
| 89 | 1/16 | 12" | 2 E.F. Alt. with 87 |
| 90 | 7/16 | | 1 E.F. |
| 91 | 3/4 | 12" | Top 2'-10" |
| 92 | 1⅛ | 9" | E.F. 9'-9" lg. |
| 93 | 1⅛ | 12" | E.F. 11'-6" lg. |
| 94 | 1⅛ | 12" | E.F. 9'-6" lg. |
| 95 | 5/8 | | Supply shims as required to center Bulkhead Plate |
| 96 | 3/4 | | 10 Bars 3'-6" lg. Gr. Top of Wall to 8'-6" Gr. 8'-6" apart |
| 97 | 1¼ | @ | 6 req'd |

Type "T" Bolts see VFX 2984

Note: A Indicates bars are to be cut and hooked at openings. # cut & look at trough.

APPROVED Ernest A. Grunsfeld
CERTIFIED PROFESSIONAL ENGINEER NO. 588
COMMONWEALTH OF VIRGINIA

| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | | | | |
| DATE OF SIGNATURES (STONE & WEBSTER) | 3-3-49 | 3-5-49 | 3-7-49 | 3-8-49 |
| 3 | | | | |
| DATE OF SIGNATURES (SLEEVES ADDED) | 11-22-48 | 12-1-48 | 12-14-48 | 11-16-48 |
| 2 | | | | |
| DATE OF SIGNATURES | 10-6-48 | 10-8-48 | 10-8-48 | 10-11-48 |
| 1 | | | | |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & PUMP HOUSE - SHEET 5

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC.

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAR. 25, 1948
J. O. NO. 7901

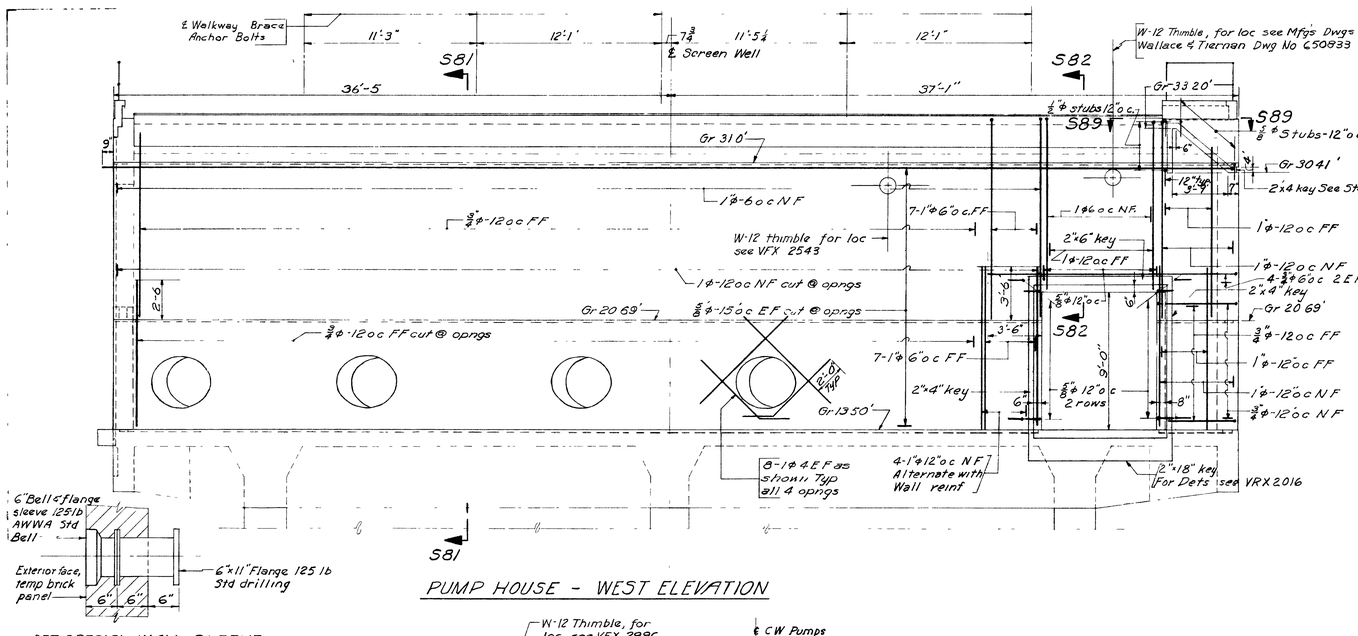
| | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|
| | 3-26-48 | 3-26-48 | 4-2-48 | 4-3-48 |

VFX 1921

R.C. 1017-3-4

Designed by: L.E. Grant Hallmark — Engineer in Charge

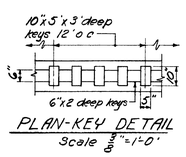
Drawn by: R.M. Waldman & A.F. Zachey
Dwg. Chkd. by: P. Sherman & C.U. Peterson



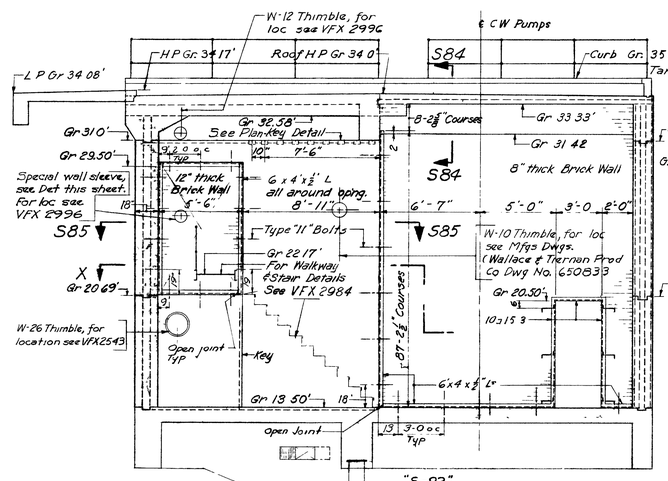

PUMP HOUSE - WEST ELEVATION




DET SPECIAL WALL SLEEVE
Scale 1"=1'-0'



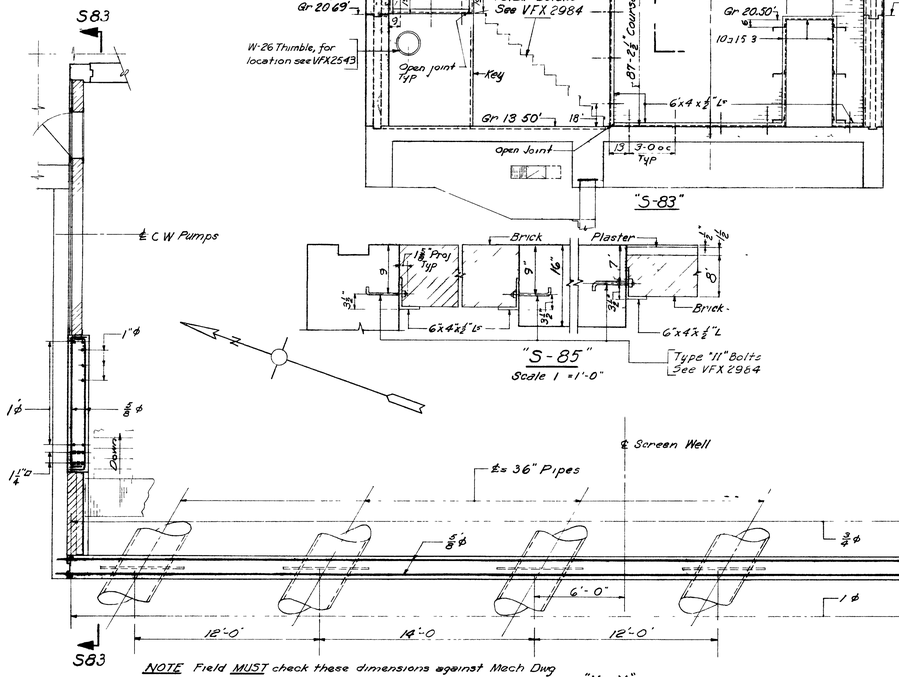

PLAN-KEY DETAIL
Scale ⅜"=1'-0'




"S-83"



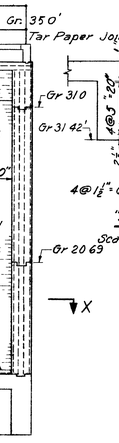

"S-85"
Scale 1"=1'-0"



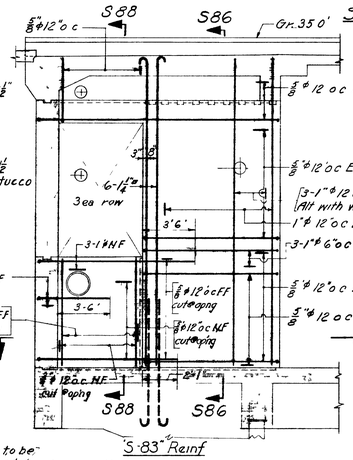

NOTE Field MUST check these dimensions against Mech Dwg

"X-X"

PLAN-NORTH & WEST WALLS

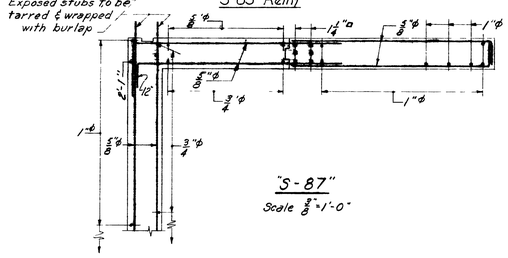



"S-84"
Scale ½"=1'-0

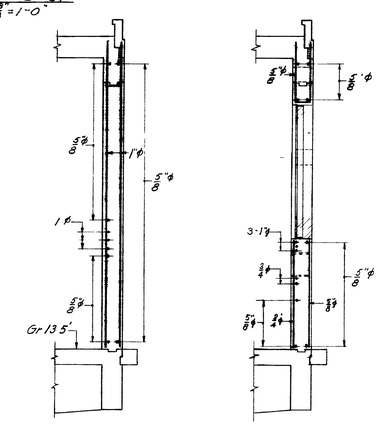



SECTION "S-81"
Scale ⅜"=1'-0"

"S-83" Reinf

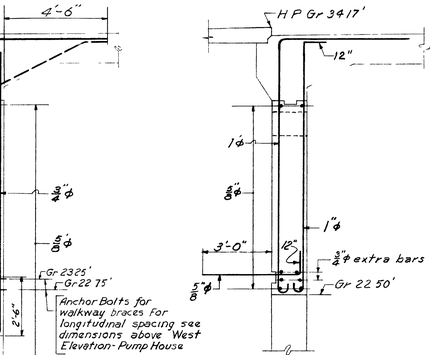



"S-87"
Scale ⅜"=1'-0"



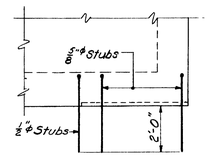

"S-86"

"S-88"

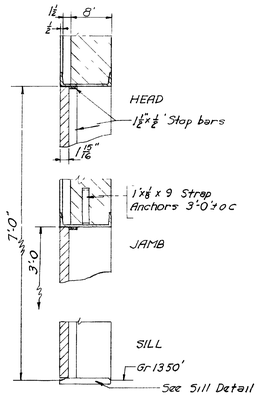




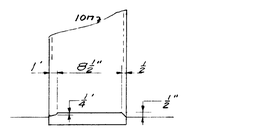





"S-89"
Scale ⅜"=1'-0"




DOOR DETAILS
Scale 1"=1'-0"




DET-GRANOLITHIC DOOR SILL
Scale 1½"=1'-0"

Notes -
Scale ¼"=1'-0" unless otherwise noted
For General Notes see dwg VX 1479
Keys to be 2"x6" unless otherwise noted
For meaning of thimble symbols & dets. see Mech Std HX 3074

APPROVED Ernest J Dechstetter
CERTIFIED PROFESSIONAL ENGINEER NO 588
COMMONWEALTH OF VIRGINIA

| NO | DESCRIPTION | CHKD | INSP | COR | APPR |
|---|---|---|---|---|---|
| | TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE | | | | |
| 1 | HOLD REVISED DOOR TYPE DETS ADDED - BOLT LOC SHOWN, DIM SLEEVE & HANDRAIL ADDED | [illegible] | CWB | [illegible] | [illegible] |
| DATE OF SIGNATURES | | 9 16 48 | 9 17 48 | 9/17/48 | |
| 2 | GIRDLOR WALKWAY ANCHOR BOLTS ADDED MINOR OUTLINE CHNGS. | [illegible] | RwB | KME | [illegible] |
| DATE OF SIGNATURES | | 8 8 48 | 10 5 48 | 10-14-48 | 10/15/48 |
| 3 | | | | | |
| DATE OF SIGNATURES | | | | | |
| 4 | | | | | |
| DATE OF SIGNATURES | | | | | |

SCREEN WELL & PUMP HOUSE - SHEET 6
DETACHED STRUCTURE
GENERATING STA C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY INC
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAR. 25, 1948
J.O. NO. 7901

| CHKD | INSP | COR. | APPR |
|---|---|---|---|
| 8-7 48 | 8 7 48 | 8 2 48 | 8-2-48 |
| [illegible] | CWB | KME | EGR |

VFX 1922

Drawn by J.C. Calli & M.N. Cox
Dwg Chkd by J. Stetson

Shaw Reynolds Hayes
Engineer Extra Points Shaw
J. J. Perlman
W. J. Tevlin

ELEVATION-WEST WALL SCREEN WELL

Sheet Piling Omitted from View

ELEVATION-DET. BM. WEST WALL

"S-114"

Scale: 1/4"=1'-0"

"S-115" Similar except as noted

Scale: 1/4"=1'-0"

"S-102"

S-103 Similar Opp. Hand

"A-A"

Scale 1/2"=1'-0"

"B-B"

"C-C"

Scale 1/2"=1'-0"

"S-108"

"S-109"

Scale: 3/8"=1'-0"

"S-110"

Scale: 1/2"=1'-0"

"S-111"

Scale: 1/2"=1'-0"

"S-112"

Scale: 1/2"=1'-0"

"S-113"

Scale: 3/8"=1'-0"

"S-131"

Notes:

Scale 1/4"=1'-0" unless otherwise noted.

For general notes see VX 1479

For location of "S-130" & "S-131" see VX 1481.

Dimensions marked * are true dim. Allowance has been made in design for 6" deviation either way.

Reinf. bars to be 2" clear from face of concrete unless otherwise noted.

For Dets. of Bulkhead see VRX 5017

## REINFORCING SCHEDULE

| Group | Size | Spcg | Remarks |
|---|---|---|---|
| 150 | 3/8 ϕ | 15" | F.F. 4'-0" |
| 151 | 1 1/4 ϕ | | 4 Top |
| 152 | 1 1/4 ϕ | | 3 Top |
| 153 | 3/4 ϕ | | 2 E.F. |
| 154 | 3/4 ϕ | | 3 Bott. |
| 155 | 5/8 ϕ | 12"± | Lengths vary |
| 156 | 1" □ | | 3 Bott. |
| 157 | 3/4 ϕ | 12" | |
| 158 | 5/8 ϕ | | Lengths vary |
| 159 | 5/8 ϕ | | Lengths vary |
| 160 | 3/4 ϕ | 12" | |
| 161 | 1" □ | | 4 E.F. Cont. Thru Wall |
| 162 | 1" □ | 12" | 5 E.F. Cont. Thru Wall |
| 163 | 3/4 ϕ | 18"± | 7'-10" 7'-10" In Pairs |
| 164 | 1" □ | | 22 Cont. Hks. a. End. |

| | | | |
|---|---|---|---|
| 101 | 3/4 ϕ | 12" | |
| 102 | 5/8 ϕ | 15" | E.F. |
| 103 | 1" ϕ | 12" | N.F. Cont. 6'-4" |
| 104 | 1'-8 ϕ | 12" | F.F. " |
| 105 | 1'-0 ϕ | 12" | N.F. |
| 106 | 3/4 ϕ | 12" | N.F. |
| 107 | 1'-0 ϕ | 12" | F.F. |
| 108 | 1'-0 ϕ | 12" | N.F. |
| 109 | 3/4 ϕ | 15" | E.F. |
| 110 | 1'-0 ϕ | 12" | |
| 111 | 5/8 ϕ | 12"± | Stubs See VRX 3273 |
| 112 | 7/8 ϕ | | 2 |
| 113 | 1" ϕ | | 4 Per Col. See VFX 1921. |
| 114 | 5/8 ϕ | 12" | |
| 115 | 7/8 ϕ | | 3 Bar |
| 116 | 7/8 ϕ | | 3 Bott. |
| 117 | 7/8 ϕ | | 2 E.F. |
| 118 | 1 1/4 ϕ | | 5 Top |
| 119 | 1 1/4 ϕ | | 5 Top |
| 120 | 3/4 ϕ | 18" | 2 E.F. |
| 121 | 5/8 ϕ | 12" | Lengths vary |
| 122 | 3/4 ϕ | | 4 Bott. |
| 123 | 1" ϕ | 12" | F.F. 7'6" |
| 124 | 1" ϕ | 12" | N.F. 7'6" |
| 125 | 3/4 ϕ | 12" | N.F. 6'10" |
| 126 | 3/4 ϕ | 12" | F.F. 6'0" |
| 127 | 1 1/4 ϕ | | 5 Top Co. |
| 128 | 1 1/4 ϕ | | 4 Top |
| 129 | 1 1/4 ϕ | | 2 Top |
| 130 | 1 1/4 ϕ | | 4 Top Cont. |
| 131 | 1 1/4 ϕ | | 5 Top Cont. |
| 132 | 1 1/4 ϕ | | 5 Top |
| 133 | 5/8 ϕ | 12" | 3 N.F. Cont. |
| 134 | 5/8 ϕ | 12" | 3 F.F. Cont. |
| 135 | 1" □ | | 5 Bott. Cont. |
| 136 | 5/8 ϕ | | |
| 137 | 1" ϕ | | 3 Top Cont. |
| 138 | 1" ϕ | | 3 Bott. Cont. |
| 139 | 1/2 ϕ | 2'-0" | |
| 140 | 1" ϕ | 2'-0" | Spcrs. |
| 141 | 1 1/2 ϕ | | 3 Top |
| 142 | 1 1/2 ϕ | | 3 Top |
| 143 | 3/4 ϕ | | 4 E.F. |
| 144 | 5/8 ϕ | 12" | Lengths vary |
| 145 | 3/4 ϕ | | 3 Bott. |
| 146 | 5/8 ϕ | 15" | E.F. 4'-0" |
| 147 | 5/8 ϕ | 15" | E.F. |
| 148 | 3/8 ϕ | 15" | E.F. 4'-0" |
| 149 | 5/8 ϕ | 15" | N.F. 4'-0" |

SCANNED 72192

APPROVED Ernest A. Dahlstrom
CERTIFIED PROFESSIONAL ENGINEER NO. 588
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | OUTLINE CHANGE | 3-3-49 | 5-3-49 | 3-7-49 | 3/14/49 |
| | DATE OF SIGNATURES | 11-11-48 | 11-11-48 | 12-21-48 | 12-21-48 |
| 2 | PIPE SLEEVES ADDED | | | | |
| | DATE OF SIGNATURES | 10-8-48 | 10-8-48 | 10-19-48 | 10/19/48 |
| 1 | OUTLINE CHNGS. DEETS. CHNGED REINFORCING ADDED | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & PUMP-HOUSE - SHEET 7

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APR. 1, 1948
J. O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-2-48 | 5-7-48 | 6-21-48 | 6-23-48 |

VRX 2016

Drawn by A.F. Zaske
Chkd. by J.C.C.

Engr. 5-4-48 Rec. 5-6-48 RMR 5/6/48
Chkd. 5/16/48 Cor. 5-6-48

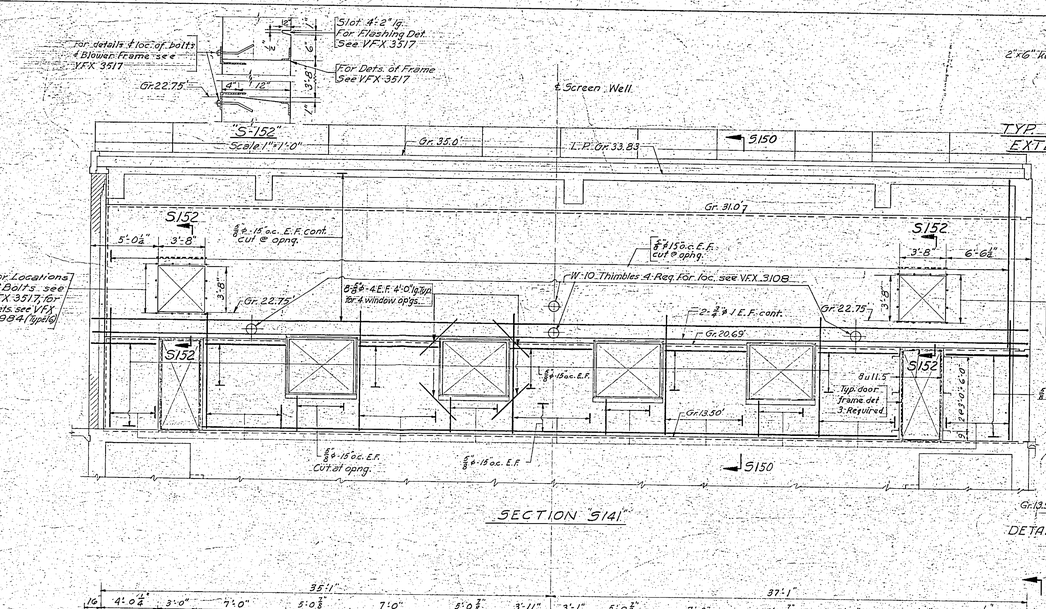
③ Engr. 3-3-49

② Chkd. C.U.P. 12-20-48 Engr. 12-20-48 Engr. 12-21-48

①

RC 7460

Property of CU Permanent Records | Engineering Drawings




| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | | | | | |
| | DATE OF SIGNATURES | 10-8-48 | 10-8-48 | 9-15-48 | 10-14-48 |
| 2 | MINOR OUTLINE CHGS. | | | | |
| | DATE OF SIGNATURES | 9-10-48 | 9-10-48 | 9-17-48 | 10-14-48 |
| 1 | DOOR FRAME DETS., NOTES, PANDRAILS ADDED, DWY. LINE CHGD., DELTA SHWD. | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & PUMP HOUSE - SHEET 8

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APR. 1, 1948
J. O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-7-48 | 6-7-48 | 6-2-48 | 6-2-48 |
| | DWB | HME | ELR |

VRX 2017

Checked C.U.P. 10-8-48

R.F.E. 9-14-48 Checked 9-16-48
Checked 9-15-48

Checked 5-6-48 Checked 5-6-48
Checked 5-7-48

Drawn Chkd

Faulkner & Southwick

Designed By Army Engineer Extra Permit Stairs

Traced By Shade Pyramid

P.C. Trial

S-146 19 Feb

APPROVED: Ernest A. Dockstader
CERTIFIED PROFESSIONAL ENGINEER NO 589
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | | | | | |
| | DATE OF SIGNATURES | 3-3-49 | 3-3-49 | 3-7-49 | 3/7/49 |
| 2 | OUTLINE CHANGES & ADDITIONS | | | KmE | |
| | DATE OF SIGNATURES | 10-8-48 | 10-5-48 | 10-14-48 | 10/15/48 |
| 1 | OUTLINE & REINF. CHANGES & ADDITIONS | | | KmE | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

**SCREEN WELL & PUMP HOUSE - SHEET 9**

DETACHED STRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY INC.
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION

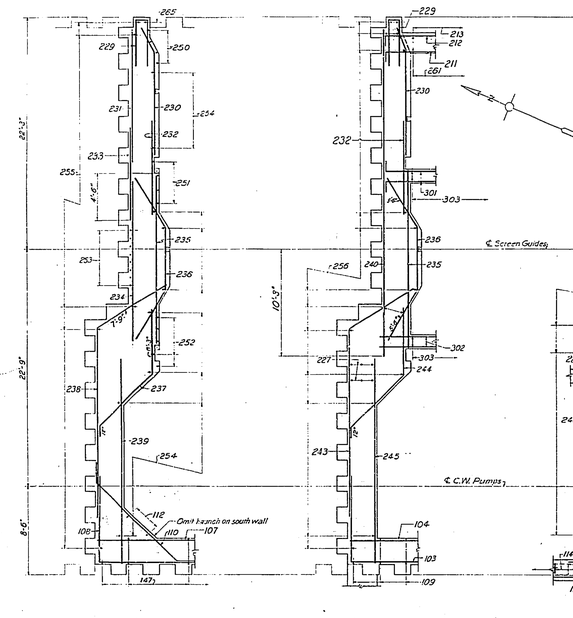
SCALE GIVEN
MAY. 19, 1948
J. O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 6-8-48 | 6-8-48 | 6-10-48 | 6-11-48 |
| | | KmE | |

**VRX 3272**

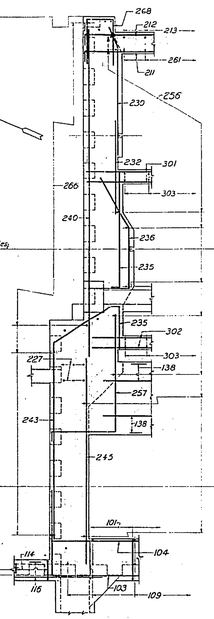
R.C. 10726

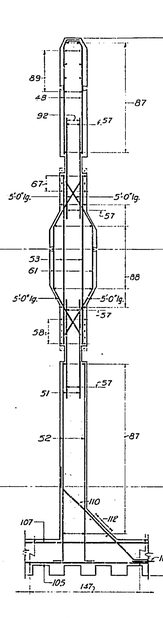
Drawn by J.C. Corl & R.H. Waldron
Dwg. Chkd. by

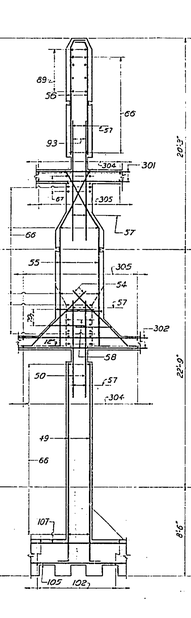


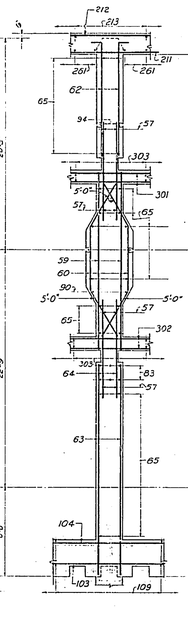


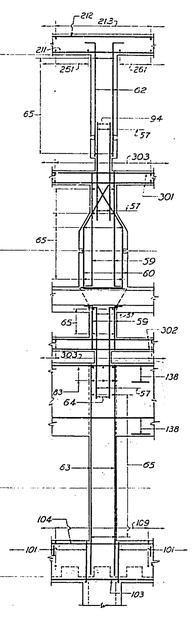


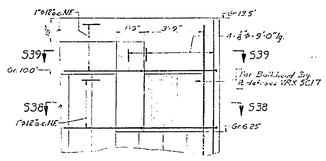


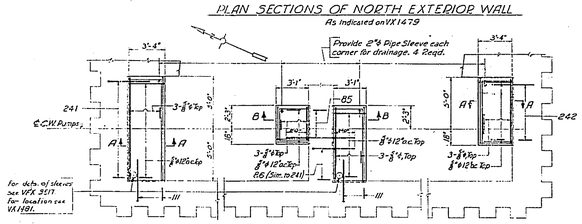



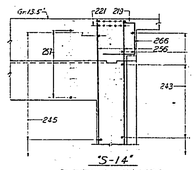



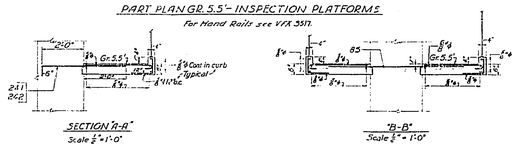




PLAN SECTIONS OF NORTH EXTERIOR WALL
As indicated on VX 1479

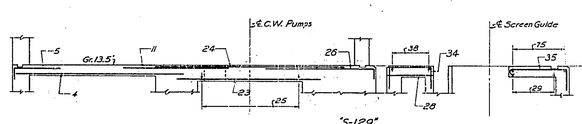


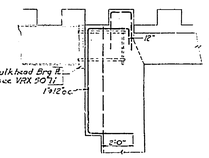

PART PLAN GR. 5.5'- INSPECTION PLATFORMS
For Hand Rails see VFX 3511




PLAN SECTIONS - CENTER WALL OF SCREEN WELL
As indicated on VFX 1921




"S-129"
TYPICAL CROSS-SECTION THROUGH DECK
As indicated on VFX 1921




Notes:
Scale: 1/4"=1' unless otherwise noted.
For general notes see VFX 1479.

APPROVED Ernest A. Dorbrook
CERTIFIED PROFESSIONAL ENGINEER NO. 388
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APP'D. |
|---|---|---|---|---|---|
| | TABLE OF ADDITIONS AND CHANGES USE ONLY PRINTS OF LATEST DATE | | | | |
| 1 | Revised Screen Guide Details & Bulkhead Slot Details | | | | |
| 2 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |

# SCREEN WELL & PUMP HOUSE - SHEET 10

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

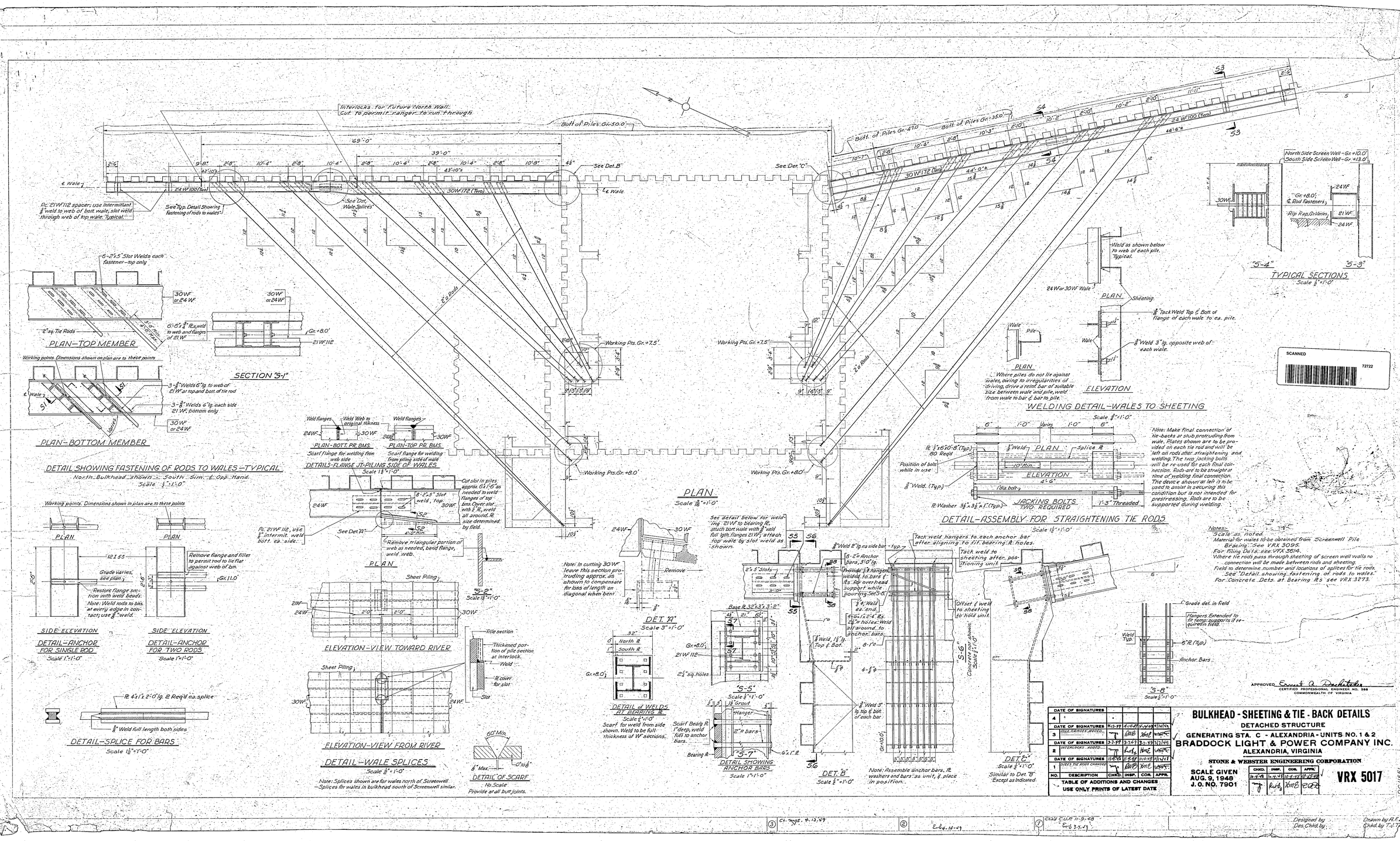
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAY. 19, 1949
J. O. NO. 7901

| CHKD. | DWN. | CON. | APPR. |
|---|---|---|---|
| 6-1-49 | 6-1-49 | 6-1-49 | 6-1-49 |

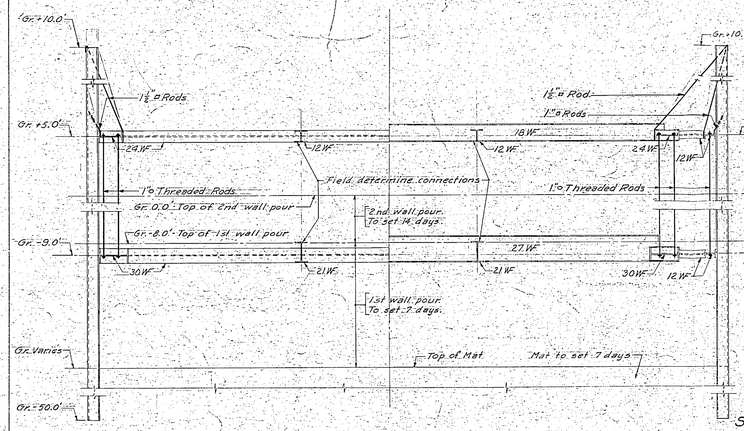
VRX 3273

Drawn by R. S. Smith
Checked by [illegible]


Interlocks for Future North Wall: Cut to permit ranger to run through
Bott of Piles Gr.+5.0'
69'-0"
39'-0"
See Det. 'B'
See Det. 'C'
24 WF 100 (Two)
30WF172 (Two)
Pc. 21WF112 spacer; use intermittant 3/8" weld to web of bott. wale, slot weld through web of top wale. Typical.
See Typ. Detail Showing Fastening of rods to wales
See Det. 'Wale Splices'
℄ Wale
Working Pts. Gr.+7.5'
Working Pts. Gr.+8.0'
2 2½ Rods
Bott. of Piles Gr.-4.0
Bott. of Piles Gr.-35.0'
30WF172 (Two)
24 WF100 (Two)
6-2"x5" Slot Welds each fastener-top only
30WF or 24WF
2" sq. Tie Rods
6-6"x 3/8" fillet welds to web and flanges of 21 WF
21WF112
Gr.+8.0'
PLAN-TOP MEMBER
SECTION "S-1"
Working points. Dimensions shown on plan are to these points
3-3/8" Welds 6" lg. to web of 21 WF at top and bott. of tie rod
3-3/8" Welds 6" lg. each side 21 WF, bottom only
PLAN-BOTTOM MEMBER
DETAIL SHOWING FASTENING OF RODS TO WALES-TYPICAL
North Bulkhead shown - South Sim. ℄ Opp. Hand.
Scale 1/2"=1'-0"
Weld flanges
Weld Web to original thikness
PLAN-BOTT. PR. BMS.
PLAN-TOP PR. BMS.
Scarf flange for welding from web side
Scarf flange for welding from piling side of wale
DETAILS-FLANGE OF PILING SIDE OF WALES
Scale 1 1/2"=1'-0"
Cut slot in piles approx. 6"x 1'-6" as needed to weld flanges of top bms. Cover slot with 3/8" PL, weld all around. PL size determined by field.
6-2'-5" Slot Weld, top
See Det. 'A'
Pc. 21WF112, use 3/8" intermit. weld bott. ea. side.
Remove rectangular portion of web as needed, bend flange, weld web.
PLAN
Sheet Piling
ELEVATION-VIEW TOWARD RIVER
ELEVATION-VIEW FROM RIVER
DETAIL-WALE SPLICES
Scale 3/8"=1'-0"
Note: Splices shown are for wales north of Screenwell - Splices for wales in bulkhead south of Screenwell similar.
Pile section
Thickened portion of pile section at interlock
Weld
PL cover for slot
Slot
60° Min.
3/8" Max.
0 to 6"
DETAIL OF SCARF
No Scale
Provide at all butt joints.
PLAN
Scale 1/8"=1'-0"
See detail below for welding 21 WF to bearing PL, attach bott wale with 3/8" weld full lgth. flanges 21 WF, attach top wale by slot weld as shown.
Remove
Note: In cutting 30 WF leave this section protruding approx. as shown to compensate for loss of length on diagonal when bent
DET. "A"
Scale 3"=1'-0"
North PL
South PL
2½" sq. holes
DETAIL of WELDS AT BEARING PL
Scale 1/2"=1'-0"
Scarf for weld from side shown. Weld to be full thickness of W sections.
Base PL 32"x3'-3"x2"
"S-5"
Scale 1"=1'-0"
Lt. Grout
Hanger
2"ø bars
"S-7"
Scarf Beam PL 1" deep, weld full to anchor bars.
Bearing A
DETAIL SHOWING ANCHOR BARS
Scale 1"=1'-0"
DET. "B"
Scale 1/2"=1'-0"
Note: Assemble anchor bars, PL washers and bars as unit, ℄ place in position.
DET. "C"
Scale 1/2"=1'-0"
Similar to Det. "B" Except as Indicated.
North Side Screen Well-Gr.+10.0'
South Side Screen Wall-Gr.+13.0'
Gr.+8.0' ℄ Rod Fasteners
Pip Rap, Gr. Varies
"S-4"
"S-3"
TYPICAL SECTIONS
Scale 1/2"=1'-0"
Weld as shown below to web of each pile. Typical.
24 WF or 30 WF Wale
PLAN
Sheating
3/8" Tack Weld Top ℄ Bott of flange of each wale to ea. pile.
3/8" Weld 3" lg. opposite web of each wale.
Wale
Pile
PLAN
ELEVATION
Where piles do not lie against wales, owing to irregularities of driving, drive a reinf. bar of suitable size between wale and pile, weld from wale to bar ℄ bar to pile.
WELDING DETAIL-WALES TO SHEETING
Scale 3/8"=1'-0"
PL 1/2"x6"x0'-8" (Typ.) 80 Reqd
Position of bolt while in use
3/8" Weld. (Typ.)
PL Washer 3/8"x3 1/2"x1" (Typ.)
7/8" dia bolt
JACKING BOLTS TWO REQUIRED
1'-3" Threaded
Note: Make final connection of tie-backs at stub protruding from wale. Plates shown are to be provided on each tie rod and will be left on rods after straightening and welding. The two jacking bolts will be re-used for each final connection. Rods are to be straight at time of welding final connection. The device shown at left is to be used to assist in securing this condition but is not intended for prestressing. Rods are to be supported during welding.
DETAIL-ASSEMBLY FOR STRAIGHTENING TIE RODS
Scale 1/2"=1'-0"
3/8" Weld 2" lg. ea side bar - typ.
8-2" ø Anchor bars, 3'-0" lg.
Provide 3/8" hangers welded to bars ℄ PL for overhead support while pouring Sec. S-6
3/8" Weld ea. end
4"x6"x1'-2" Ex. 2½" ø holes. Weld all around to anchor bars
2"x 5" Slots
Tack weld hangers to each anchor bar after aligning to fit bearing PL holes.
Tack weld to sheeting after positioning unit
Offset ℄ weld to sheeting to hold unit.
Concrete not shown
Scale 1/2"=1'-0"
"S-6"
"S-8"
Scale 1/2"=1'-0"
Grade del. in field
Flangers Extended to fit ramp support required in field.
6" PL (Typ.)
Anchor Bars
Weld Typ.
Notes-
Scale as noted.
Material for wales to be obtained from Screenwell Pile Bracing. See VRX 3095.
For Piling Dets. see VRX 3614.
Where tie rods pass through sheeting of screen well walls no connection will be made between rods and sheeting.
Field to determine number and locations of splices for tie rods. See "Detail showing fastening of rods to wales."
For Concrete Dets. at Bearing PL's see VRX 3273.
APPROVED: Ernest Q. Deschistes
CERTIFIED PROFESSIONAL ENGINEER, NO. 988
COMMONWEALTH OF VIRGINIA
SCANNED
72722
DETAIL-SPLICE FOR BARS
Scale 1 1/2"=1'-0"
PL 4"x1'-2"-0" lg. 2 Req'd ea. splice
3/8" Weld full length both sides
DETAIL-ANCHOR FOR SINGLE ROD
Scale 1"=1'-0"
DETAIL-ANCHOR FOR TWO RODS
Scale 1"=1'-0"
Working points. Dimensions shown in plan are to these points
PLAN
SIDE ELEVATION
Remove flange and fillet to permit rod to lie flat against web of bm.
Grade varies, see plan.
Restore flange section with weld beads.
Note: Weld rods to bks. at every edge in contact; use 3/8" weld.
Gr.11.0'
DATE OF SIGNATURES
4 | DATE OF SIGNATURES | 11-6-49 | 11-14-49
3 | BILL GRADES ADDED | 10-13-49 | 10-14-49
2 | DATE OF SIGNATURES 3-7-49 | 3-7-49 | 3-23-49 | 3-24-49
1 | SIZES TIE RODS CHANGED | 11-4-48 | 11-8-48 | 11-8-48 | 11-9-48
NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR.
TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE
BULKHEAD - SHEETING & TIE - BACK DETAILS
DETACHED STRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY INC.
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION
SCALE GIVEN
AUG. 9, 1948
J. O. NO. 7901
CHKD. | INSP. | COR. | APPR.
VRX 5017
Designed by Des. Chkd. by
Drawn by R.F. Zaske Chkd. by T.J.T.
ESTES
RDC 11551
3 Cl. angs. 4-13-49
2 E-6 4-14-49
1 Chkd C.L.R. 11-9-48 E-6 3-31-49

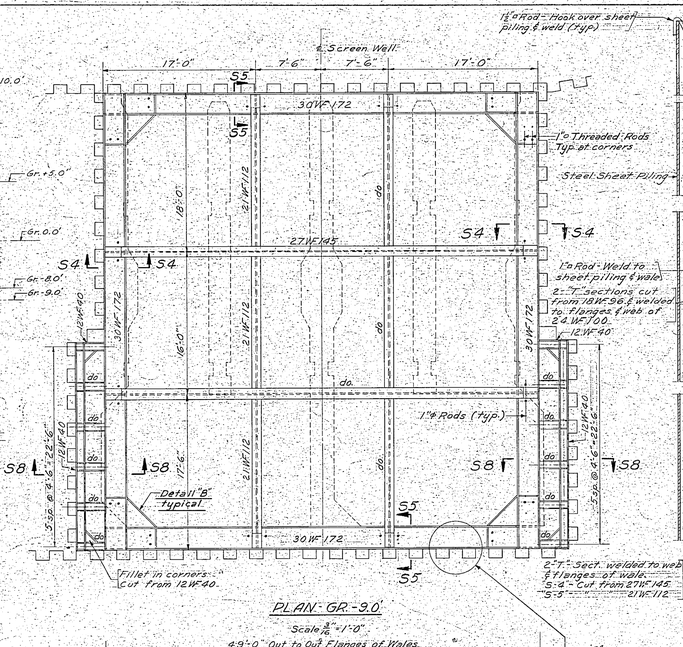
## CONSTRUCTION SCHEDULE

1. Excavate general area as shown below. (See Excavation Detail)
2. Set up sheeting & drive to a tip Gr. of approx. -10.0.
3. Excavate within sheeting to Gr. 0.00 & install bracing at approx. Gr. +5.0'
4. Drive sheeting to final Tip Gr. -20.0'
5. Excavate & pump out inside of sheeting to Gr. +10.0' and install bracing at Gr. +3.0'.
6. Excavate & pump out inside of sheeting to Gr. -20.5' (Final Grade)
7. Pour mat & allow to set 7 days.
8. Remove lower tier bracing (Gr. +3.0').
9. Pour concrete to Gr. -8.0' & allow to set 7 days.
10. Pour concrete to Gr. 0.0' & allow to set 14 days.
11. Brace East wall sheeting against concrete at Gr. -2.5'.
12. Remove upper tier of bracing & proceed with construction of Screen Well.




SECTION "S-1"

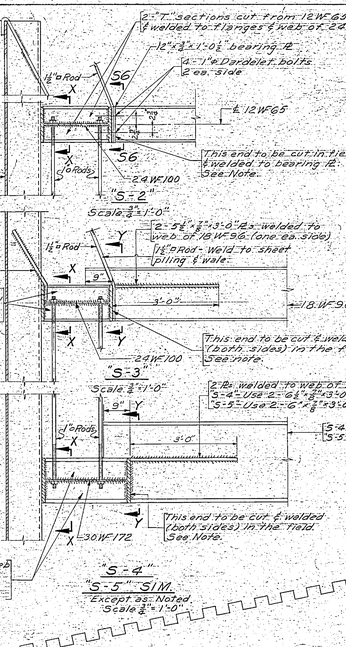
Scale 3/4" = 1'-0"

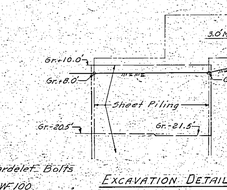



PLAN - GR. -9.0'

Scale 3/16" = 1'-0"

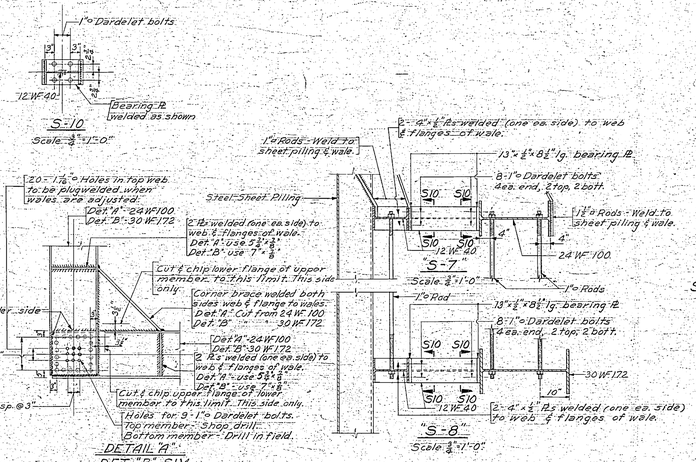
4'-9'-0" Out to Out Flanges of Wales.



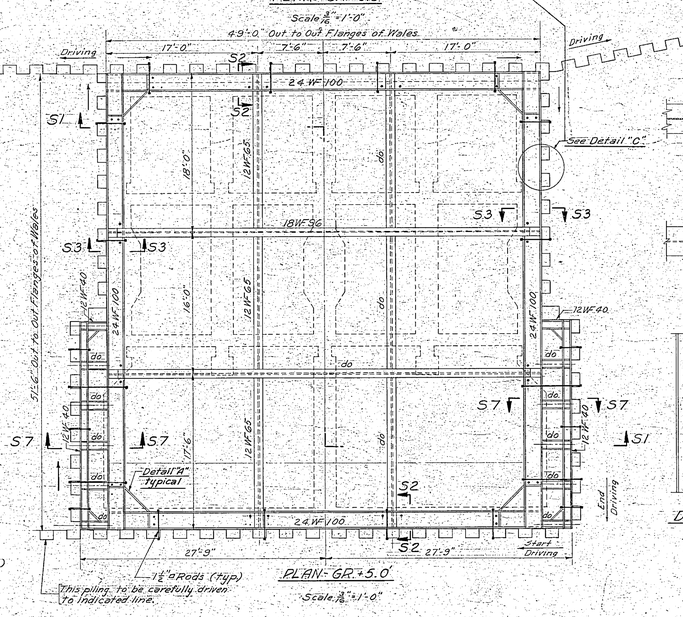

EXCAVATION DETAIL

No Scale



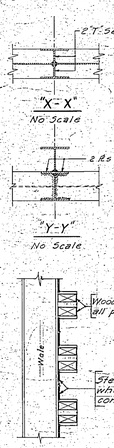







PLAN - GR. +5.0'

Scale 3/16" = 1'-0"




DETAIL "C"

No Scale

Notes:-
Scale as noted.
No sheeting is to be withdrawn. East wall sheeting is to be cut off at Gr. -18.5' after screen well & dredging are completed.
All welds to be 1/4" fillets.

SCANNED 72717

APPROVED Ernest A. Dahlstrom
CERTIFIED PROFESSIONAL ENGINEER NO. 3686
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & BULKHEAD - BRACING DETAILS

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

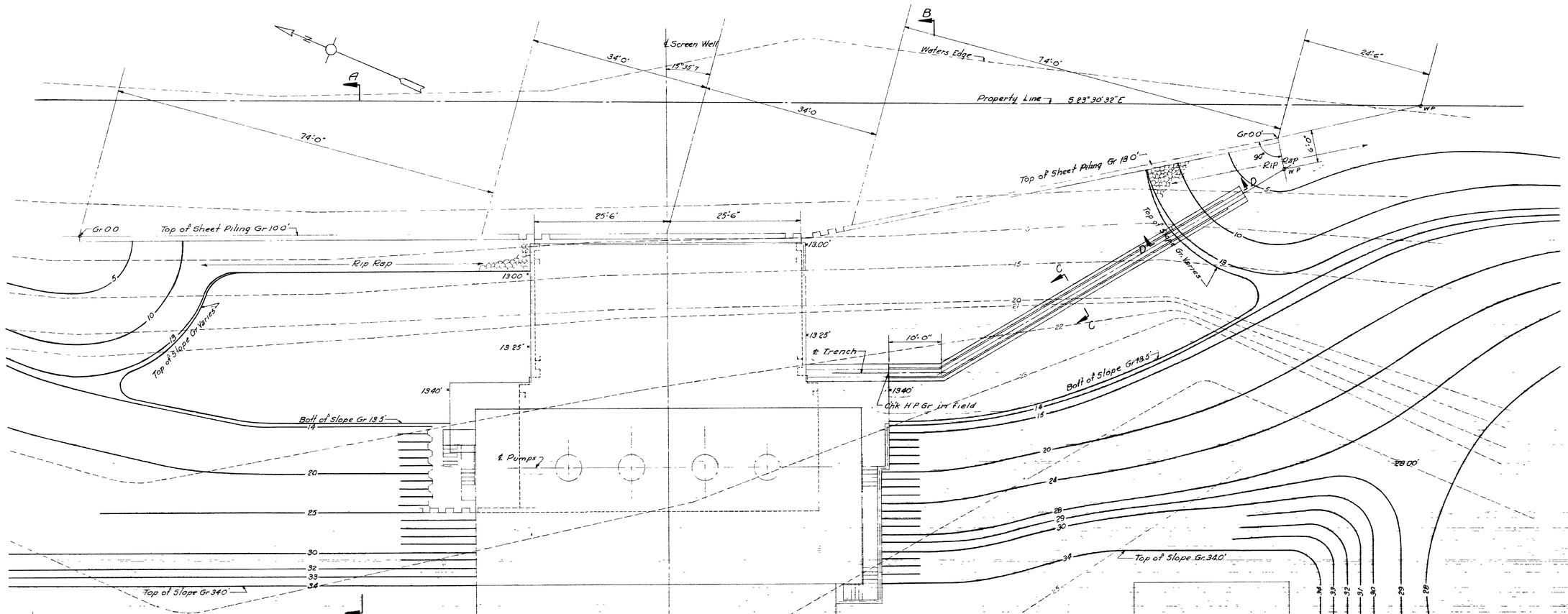
SCALE GIVEN
MAY. 12, 1948
J. O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-18-48 | 7-21-48 | 6-2-48 | 6-3-48 |
| JT | DWB | JAME | EAD |

VRX 3095

P.C. 72459

Designed by T.J. Tevlin Drawn by R. Stetson
Chkd. by Stocker & Tevlin




Notes
Scale 1/8"=1'0", unless otherwise noted
Present Ground shown thus — — — — —
Proposed Ground shown thus ———

APPROVED Ernest A. Dorkstader
CERTIFIED PROFESSIONAL ENGINEER NO 386
COMMONWEALTH OF VIRGINIA

| NO | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 2 | | | | | |
| | DATE OF SIGNATURES | 5-23-49 | 5-23-49 | 5-24-49 | 5-24-49 |
| 1 | CHANGE & DETAILS ADDED MINOR CHANGES NOTE ADDED | mago | DWB | HmE | WFF |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL & BULKHEAD - GRADING PLAN

DETACHED STRUCTURE

GENERATING STA C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

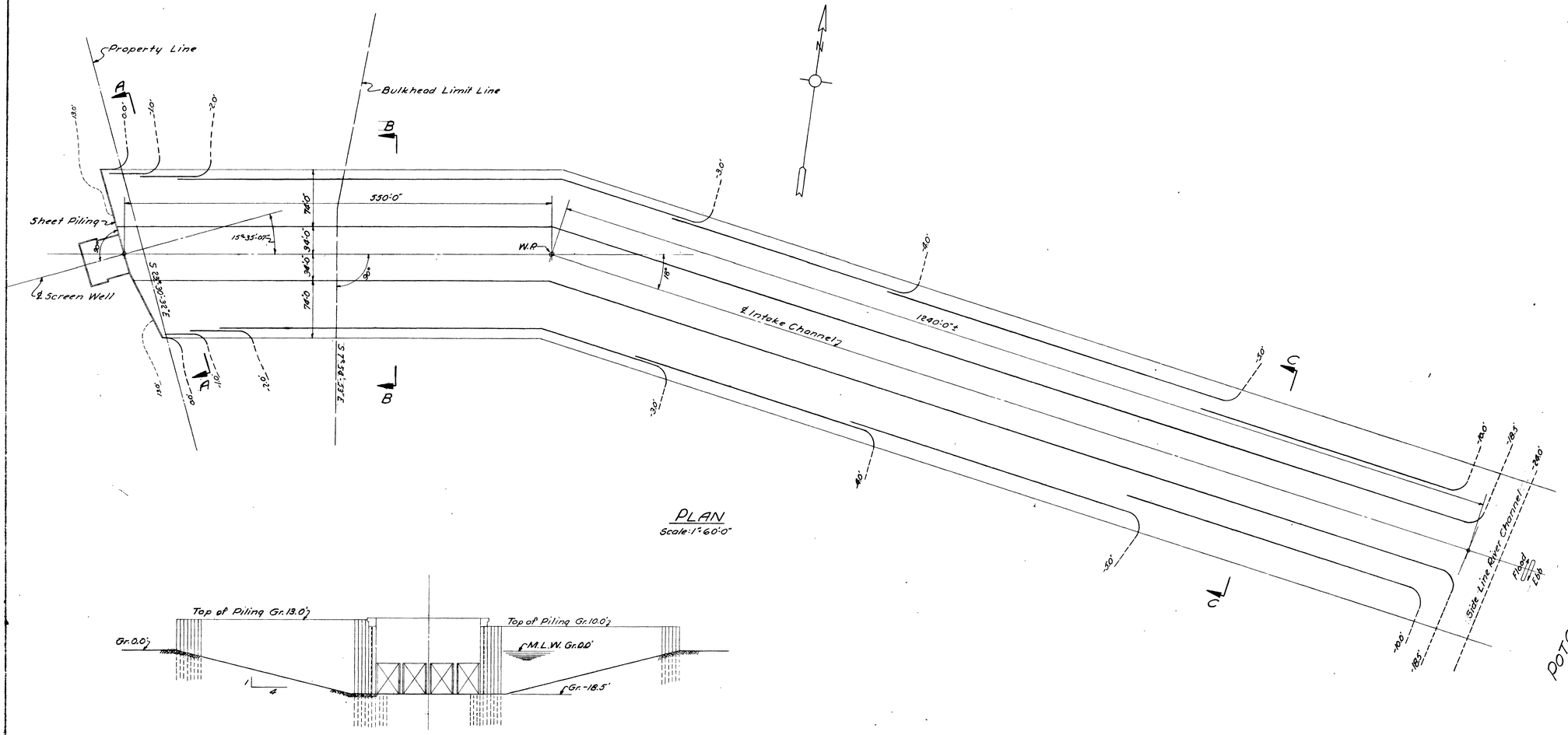
SCALE GIVEN
FEB. 16, 1949
J. O. NO. 7901

| CHKD | INSP | COR. | APPR. |
|---|---|---|---|
| 2-18-49 | 2-18-49 | 2-21-49 | 2-23-49 |
| mago | DWB | HmE | WFF |

VFY 1062

B.C. 8616

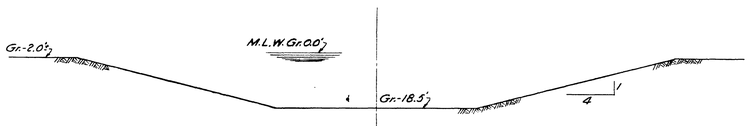
Drawn by Faulkner & Waldman
Traced by J. Collis



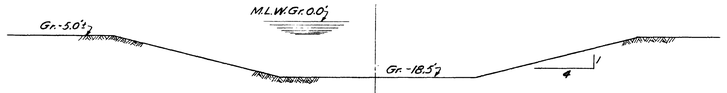

PLAN
Scale: 1"=60'-0"




"A-A"
Scale: 1"=20'-0"




"B-B"
Scale: 1"=20'-0"




"C-C"
Scale: 1"=20'-0"

Notes:
For Screen Well & Pump House see Dwg. VX 1879.

DATA USED
Mean low water obtained from U.S.C. & G.S. Chart
Sounding information from U.S. Engineers Dwg. 8-60-295-2.
Other information taken from Profiles sent in by field.

APPROVED Ernest A. Dechstedter
CERTIFIED PROFESSIONAL ENGINEER NO. 588
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - DREDGING - PLAN & DETAILS

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY INC
ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JULY 6, 1948
J. O. NO. 7901

| | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|
| Arc | 7-12-48 | 7-12-48 | 7-12-48 | 7-14-48 |
| Engr | | CWR | HME | EAD |

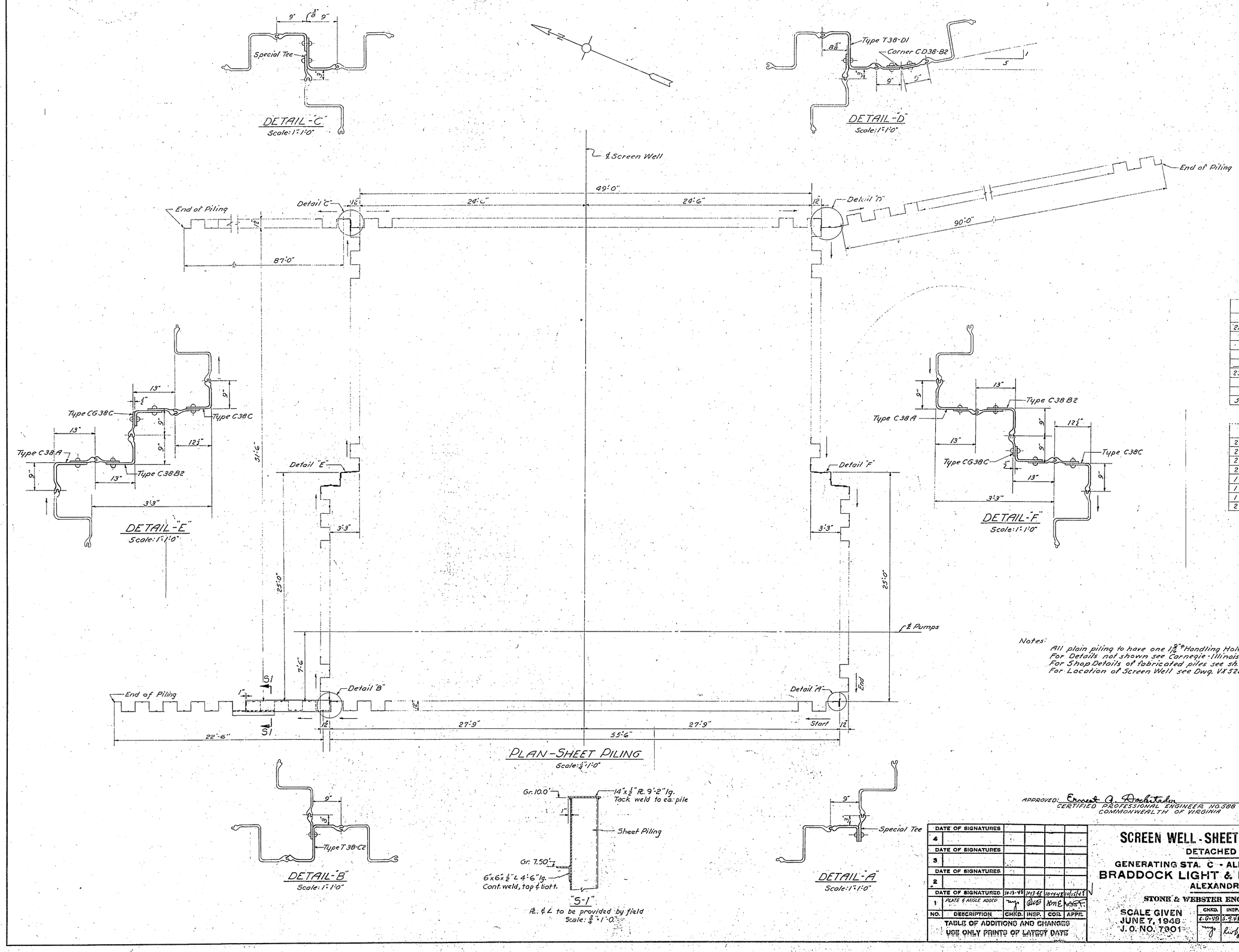
VFX 4307

RC 8617

Arc 7-12-48, Engr 7-12-48 Designed by
KMK 7/12/48 Des. 7/12/48 Des. Chkd. by
Drawn by R.H. Waldman
Dwg. Chkd. by M.G. Stocker

Engineer Arc Engr Prod
ES 103

SCANNED
Chalk Point
05010




| PILES REQUIRED | |
|---|---|
| | 60'-0" Piles |
| 213 | Regular pcs. MZ38 |
| 8 | " " to fab. 8 corners |
| 6 | " " " " 3 Tees |
| 2 | " " " " 1 Spec. Corner |
| 1 | " " " " 1 Angle Corner |
| 230 | Total 60'-0" Piles Required |
| | |
| | 48'-0" Piles |
| 56 | Regular pcs. MZ38 |

| SPECIAL SECTIONS | | | | |
|---|---|---|---|---|
| 2 | A-13" | Type | C38A | Corners |
| 2 | A-13" | " | C38B2 | " |
| 2 | A-12½" | " | C38C | " |
| 2 | A-9"B-13" | " | CG38C | " |
| 1 | A-9"B-9" | " | CD38B2 | Angle |
| 1 | | " | T38D1 | Tee |
| 1 | | " | T38C2 | " |
| 2 | | | Special | Tees |

Notes:
All plain piling to have one 1 9/16"φ Handling Hole, 4" from each end on ℄ web.
For Details not shown see Carnegie-Illinois Steel Corp. Dwg. P-2972.
For Shop Details of fabricated piles see sh. #11-751 to 11-754 incl.
For Location of Screen Well see Dwg. VX528

APPROVED: Ernest A. Dochitador
CERTIFIED PROFESSIONAL ENGINEER NO. 588
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES / PLATE & ANGLE ADDED | 10-13-48 | 10-13-48 | 10-14-48 | 10-15-48 |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - SHEET PILING SECTS. & DETS.

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JUNE 7, 1948
J. O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 6-8-48 | 6-9-48 | 6-7-48 | 6-10-48 |

VFX 3614

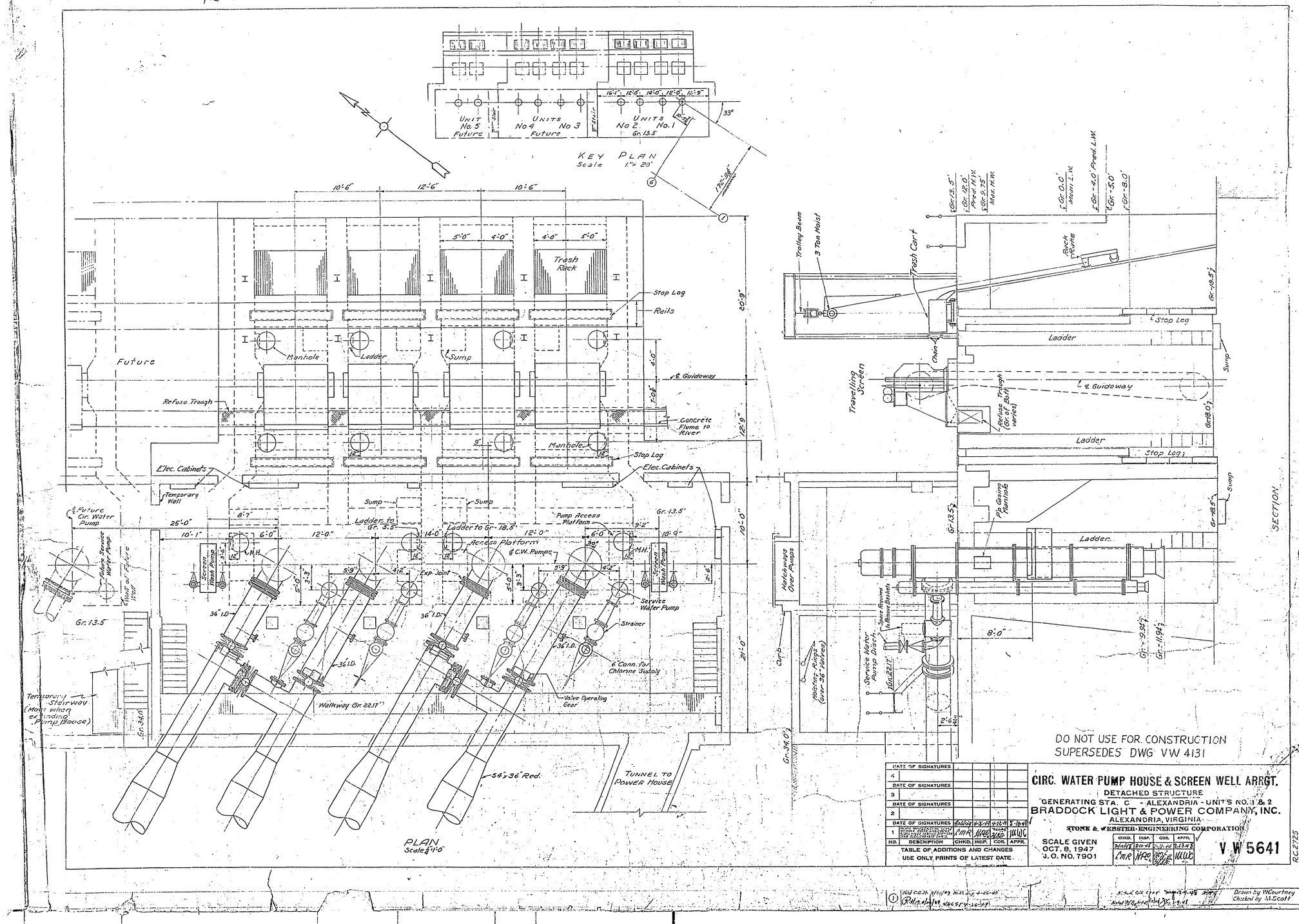
R.C. 10635

Chkd. C.U.P. 9-23-48
Ewb 10-13-48

Designed by ——
Des. Chk'd by ——

Drawn by R. H. Waldman
Chk'd by M. G. Stocker

Engineer Estes
Extra Prints
Chg. 0


KEY PLAN
Scale 1" = 20'
UNIT No. 5 Future
UNITS No 4 No 3 Future
UNITS No 2 No. 1 Gr. 13.5
Trash Rack
Stop Log
Rails
Manhole
Ladder
Sump
Future
Refuse Trough
℄ Guideway
Concrete Flume to River
Elec. Cabinets
Temporary Wall
℄ Future Cir. Water Pump
Future Service Water Pump
Wall of Future Well
Screen Wash Pump
Ladder to Gr. 5.5
Ladder to Gr. 18.5
Access Platform
℄ C.W. Pumps
Pump Access Platform
Exp. Joint
Service Water Pump
Strainer
6" Conn. for Chlorine Supply
Valve Operating Gear
Walkway Gr. 22.17
Temporary Stairway (More when extending Pump House)
54"x36" Red.
TUNNEL TO POWER HOUSE
PLAN
Scale 1/4" = 1'-0"
Trolley Beam
3 Ton Hoist
Trash Cart
Rack Rake
Travelling Screen
Refuse Trough (Gr. of Bott. varies)
Hatchways Over Pumps
Curb
Hoisting Rings (over 36" Valves)
Service Water Pump Disch.
Space Required to Remove Baskets
Pump Casing Manhole
SECTION
DO NOT USE FOR CONSTRUCTION
SUPERSEDES DWG VW 4131
DATE OF SIGNATURES
NO. DESCRIPTION CHKD. INSP. COR. APPR.
TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE.
CIRC. WATER PUMP HOUSE & SCREEN WELL ARRGT.
DETACHED STRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY, INC.
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION
SCALE GIVEN
OCT. 8, 1947
J. O. NO. 7901
V W 5641
R.C. 2725
Drawn by W. Courtney
Checked by M. Scott

# MACHINE LOCATION PLAN - BOILER ROOM BASEMENT

GENERATING STATION - C - POTOMAC RIVER - UNIT NO. 3 & 4

POTOMAC ELECTRIC POWER COMPANY

WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1/8" - 1 FT

JAN. 21, 1952

8757-FM-5

PLAN GR. 22.00'

Induced Draft Fan Duct Inlet Hoppers

Precipitator Hoppers

Mechanical Dust Collector Soot Hoppers

Induced Draft Fan Duct Inlet Hoppers

Switchgear for 3 Pump Motors

Precipitator Hoppers

Mechanical Dust Collector Soot Hoppers

Ignitor Oil Pumps

Ignition Oil Pumps

Existing Switchgear

Precipitator Hoppers

Existing Phosphate Feed Tank

$CO_2$ Bottles

℄ Chem. Feed & Hyd. Test Pump Existing

℄ Discharge

℄ Distilled Water Transfer Pumps

℄ Suct & Disch. Chem. Feed & Hyd. Test Pump

I.D. Fan Inlet Duct Hoppers

℄ Suct. & Disch.

℄ Suct & Disch.

Ltg. Cab.

Ltg. Cab.

Ltg. Cab.

Ltg. Cab.

Ltg. Cab.

2B

2A

Forced Draft Fans

Mechanical Dust Collector Soot Hoppers

Relocated R.S. Door at Gr. 25.0'

Ramp Dn

Existing Ramp to be removed

Up

Boiler No. 4

Boiler No. 3

Boiler No. 2

Door at at Gr. 32.50'

Dn

Gr. 30.75'

Up

℄ Hopper

℄ Motor

℄ Grinder Drive

Ash Hopper

Ejector Pit

Up

Toilet

Jan. closet

℄ Hopper

℄ Motor

℄ Grinder Drive

Ash Hopper

Up

Elevator

Ash Hopper

M.H.

13'-0"

Boiler Blow Off Tank

Gr. 36.00'

℄ Mill No. 4D

℄ Mill No. 4C

℄ Mill No. 4B

℄ Mill No. 4A

℄ Mills

Coal Pulverizers

Top of Platform GR. 27'-4 11/16"

℄ Mill No. 3D

℄ Mill No. 3C

℄ Mill No. 3B

℄ Mill No. 3A

℄ Mills

Coal Pulverizers

Top of Platform GR. 27'-4 11/16"

Coal Pulverizers

R.S. Door at Gr. 32.50'

Notes:

For Machine Location-Cross Section see Dwg. 8757-RM-1

For Machine Location Plan-Turbine Room Basement see Dwg. 8757-FM-3

For Machine Location Plan Turbine Room Floor see Dwg. 8757-FM-2

For Machine Location Plan-Boiler Room Floor see Dwg. 8757-FM-4

For Machine Location -Boiler Room Misc. Levels see Dwg. 8757-FM-6

For Machine Location Plan- Turbine Room Mezz. Floor see Dwg. 8757-FM-7

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 1 | GENERAL REVISION | SAF | HPC | JAD | JADN |
| 2 | ISSUED FOR UNIT NO. 4 AS REQUESTED | SAF | HPC | C.F.W. MHB | JWW |
| 3 | MILL REPORTS EQUIPMENT ADDED | JWC | HPC | C.F.W. MHB | JWW |
| 4 | REVISED PER MINUTES CONF. | SAF | HPC | C.F.W. MHB | JWW |
| 5 | FIELD CHANGES FOR UNITS NO. 3 & 4 ADDED FOR INFORMATION ONLY | SAF | HPC | JAD | JAD |

DATE OF SIGNATURES: 9-23-54 | 9-23-54 | 7-29-54 | 12-14-54

DATE OF SIGNATURES: 12-16-53 | 12-18-53 | 5-27-54 | 12-11-53

DATE OF SIGNATURES: 8-27-53 | 9-21-53 | 12-15-53 | 8-25-54

DATE OF SIGNATURES: 4-13-53 | 4-13-53 | 5-8-53 | 2-23-53

DATE OF SIGNATURES: 3-24-52 | 9-21-52 | 9-3-52 | 9-25-52

TABLE OF ADDITIONS AND CHANGES

USE ONLY PRINTS OF LATEST DATE

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 2-21-52 | 2-21-52 | 2-27-52 | 2-28-52 |
| GTS | HPC | JAD | JWW |

Chkd. GTS 9-23-54

Designed By E.M. Benson

Traced By A.J.

Checked By

Date 1-12-52

P:\cadd\1108 nrg pot rivrecd\bldg tifs\tifs gen\exterior.dwg, Model, 8/4/2014 3:45:10 PM, JOConnor

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs gen\-exterior.dwg, Model, 8/4/2014 3:41:25 PM, JOConnor

Cin. Water Line
Tunnel to C.W. Pump House
C.W. Line
Pump Suction Tank.
Elevator "B"
Back Wash Trench
Out of Stock Storage Area
Instruments
Electrical
Boiler Shop
℄ Hot Water Tank
Asbestos Curtain
Tool Room
Welding Shop
Asbestos Curtain
Bench
Machine Shop
Monorail
Lathe
Bench
Switch
Elevator "A"
Grating
Filter Tanks
Filter Pumps
Ltg. Cab.
Ltg. Cab.
Ltg. Cab.
Ltg. Cab.
Elevator "C"
Tempo-rary End - To be removed
Door Sill at Gr. 32.50'
Door Sill at Gr. 32.50'
Gr. 32.00'
CO² Bottles for Ignition Oil Tk. protect'n.
℄ Dissolving Tank
Phosphate Feed Tank
℄ Chem. Feed & Hydrogen Pump
℄ Suct. & Disch.
Dist. Water Transf. Pumps.
Boiler Blow Off Tank Gr. 36.00'
I.D. Fan Inlet Duct Hopper
I.D. Fan Inlet Duct Hopper
Aerated Water Pumps.
Caustic Pumps
Acid Pumps
℄ Caustic Tank.
℄ Acid Tank.
Platform Gr. 28.00'
Ignition Oil Pumps
No. 1.
No. 2.
No. 3.
No. 4.
℄ Suct. & Disch.
Precipitator Hoppers
Precipitator Hoppers
℄ Suct. & Disch.
No. 1A
No. 1B
No. 1C
No. 1D
No. 1
No. 2
No. 3
No. 4
No. 5
No. 6
No. 7
No. 8
F.D. Fans & Air Heater
No. 2B
No. 2A
Forced Draft Fans
Curb
No. 1B
No. 1A
Mech. Dust Collector Soot Hoppers
Mech. Dust Collector Soot Hoppers
℄ Boiler No. 2
℄ Boiler No. 1
Coal Pipes
Coal Pipes
Coal Pipes
Coal Pipes
℄ Ash Hopper
℄ Furnace
℄ Ash Hopper
℄ Furnace
Coal Pipes
Coal Pipes
Coal Pipes
Coal Pipes
No. 2D
No. 2C
No. 2B
No. 2A
No. 1D
No. 1C
No. 1B
No. 1A
℄ Coal Pulverizers
℄ Coal Pulverizers
5'-5" 13'-2" 11'-10" 13'-2" 5'-5"
5'-11"
5'-5" 13'-2" 11'-10" 13'-2" 5'-5"
5'-11"

SUPERSEDES DWG. NO. VW 2166

PLAN GRADE 22.0'

Notes:

| | | |
|---|---|---|
| Machine Location | Cross Section | FW 2157 |
| Machine Location Plan - Turbine Room Basement | | FW 5123 |
| Machine Location Plan - Turbine Room Floor | | FW 5122 |
| Machine Location Plan - Boiler Room Floor | | FW 5119 |
| Machine Location Plan - Boiler Room Bunker Level | | FW 5120 |

| NO. | DESCRIPTION | DATE OF SIGNATURES | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|---|
| 6 | ISSUED FOR J.O. 8757 | 12-29-47 | JHS | HMC | WWC | |
| 5 | | 12-2-47 | CMR | HMC | WWC | |
| 4 | | 11-13-47 | CMR | HMC | WWC | |
| 3 | | 10-14-47 | CMR | HMC | WWC | |
| 2 | | 9-29-47 | CMR | HMC | WWC | |
| 1 | | 9-19-47 | CMR | HMC | WWC | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# MACHINE LOCATION PLAN - BOILER ROOM BASEMENT

MECHANICAL EQUIPMENT
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY, INC
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1/4" - 1 FT
SEPT. 12, 1947
J.O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-24-47 | 9-26-47 | 9-29-47 | 9-29-47 |
| CMR | HMC | JHS | WWC |

FW 5121

RC 2505
RC 57286 for J.O. 8757

Designed by Mc. Scott
Engineer in Charge
Traced by P.T. Bowen
Drawn by R.H. Tivers

P:\cadd\11108 nrg pot rlv\recd\bldg tifs\tifs genl-exterior.dwg, Model, 8/4/2014 3:24:29 PM, JOConnor

SCREEN WELL

S11

S4

S5

S3

S2

S1

S7

S12

Waterstop thimbles see Mech. Drwg. PX 1623

14"ø Anchors

Track

ELEVATION "S11"
Scale ⅛"=1'-0"

Gr. 34.00'
Gr. 22.0'
Gr. 19.75'
Gr. 16.0'
Gr. 13.5'

"C-C" shows Crown typical for all Tunnel Sections

"S2"

"S3"

"S4"

"S5"

"S7"

"S9"

"S10"

"S12"

"A-A"

"D-D"

Det. "A"
Scale 6"=1'-0"

PLAN
Scale ⅛"=1'-0"

SECTION "S1"

Notes:
Scale ⅛"=1'-0" unless otherwise noted.
Ultimate Compr. Strength of Concr. @ 28 days to be 2500 lbs per sq. in.
Reinf. to be deformed bars & lapped 40 dia. when contin.
Dimensions to Reinf. from face of Concr are clear distances
For Location & Details of Elec. Conduits & Misc. elec. equip. see VFX 1639
For " " Checkered PL & Steel Framing see VFX 1640
For Ch'k'd PL details and steel frame at pull box see Elec. Dwgs.

APPROVED Ernest A. Dauksta
CERTIFIED PROFESSIONAL ENGINEER NO. 988
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 1 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 4 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# TUNNEL - L LINE TO SCREENWELL - CONCRETE

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

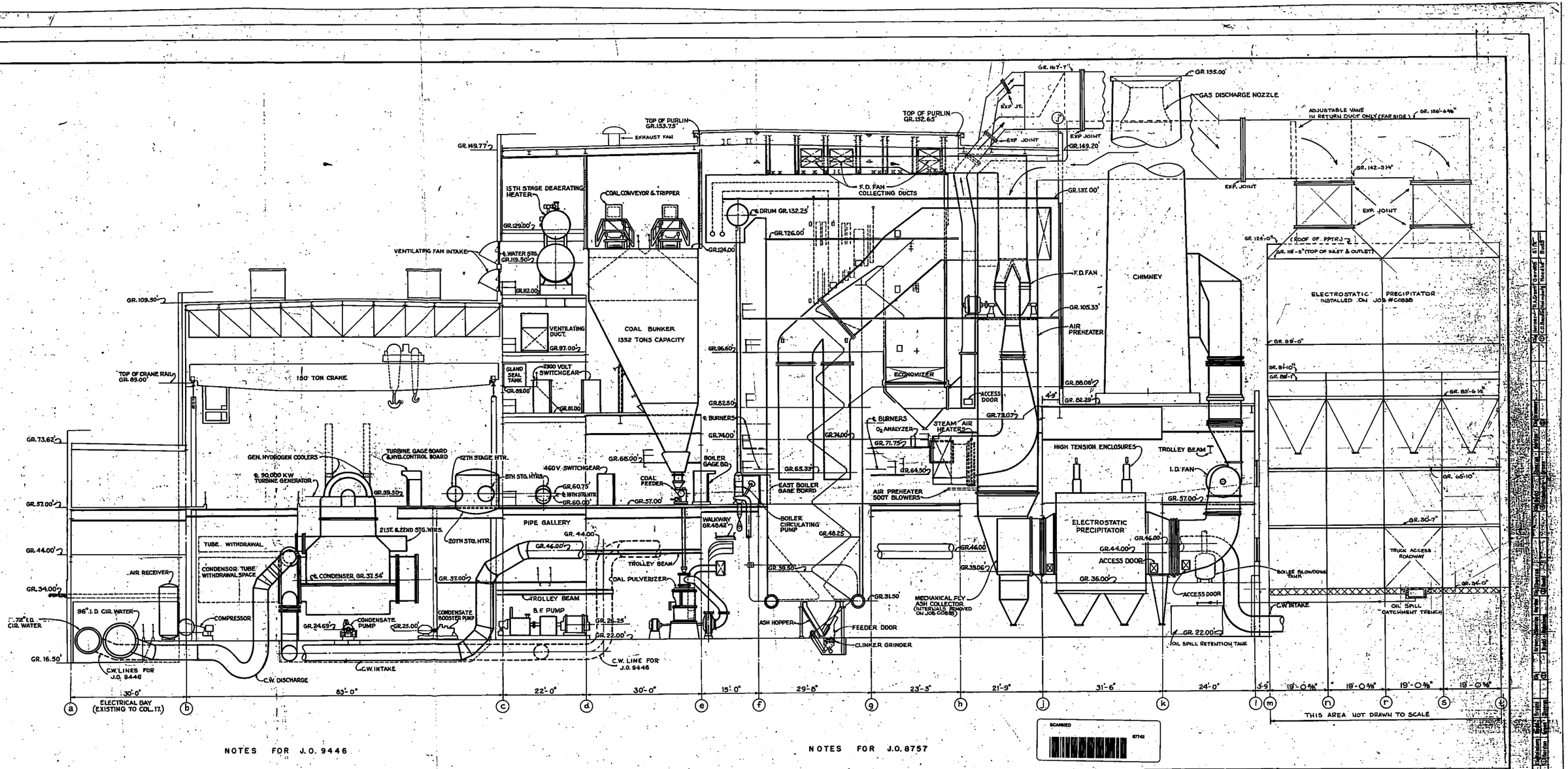
SCALE GIVEN
MAR. 24, 1948
J. O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 4-21-48 | 4-21-48 | 4-27-48 | 4-27-48 |

VFX 1865

R.C. 107340

Designed by J. Medick Drawn by E. Manomaitis
Dsn. Ch'd by J. S. Reinigen Ch'd by D. Olney




SCANNED 67742

NOTES FOR J.O. 9446

NOTES:
FOR MACHINE LOCATION PLANS – TURB. RM. OPERATING & MEZZANINE FLRS. SEE DWG. 9446-FM-1A
FOR MACHINE LOCATION PLANS – TURB. RM. BASEMENT FLOOR SEE DWG. 9446-FM-1B
FOR MACHINE LOCATION PLANS – BOILER RM. OPERATING & BASEMENT FLRS. SEE DWG. 9446-FM-1C
FOR MACHINE LOCATION PLANS – BOILER RM. MISCELLANEOUS LEVELS SEE DWG. 9446-FM-1D

NOTES FOR J.O. 8757

NOTES:
FOR MACHINE LOCATION PLAN – TURBINE ROOM FLOOR – SEE DWG. 8757-FM-2
FOR MACHINE LOCATION PLAN – TURBINE ROOM BSMT. – SEE DWG. 8757-FM-3
FOR MACHINE LOCATION PLAN – BOILER ROOM FLOOR – SEE DWG. 8757-FM-4
FOR MACHINE LOCATION PLAN – BOILER ROOM BSMT. – SEE DWG. 8757-FM-5
FOR MACHINE LOCATION PLAN – BOILER ROOM MISC. LEVELS – SEE DWG. 8757-FM-6
FOR MACHINE LOCATION PLAN – TURBINE ROOM-MEZZ. FLOOR – SEE DWG 8757-FM-7

| DATE OF SIGNATURES | | | | | | |
|---|---|---|---|---|---|---|
| 8 | CHANGED PER EMISSION CONTROL PROJECT COST | | | | | |
| 7 | ISSUED FOR J.O. NO. 9446 | | | | | |
| 6 | GRADE CHANGED | | | | | |
| 5 | DRAWING TRACED | | | | | |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. | |

| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | ACCESS DOORS, OFFSETS ADDED, ANALYSIS & PLATFORMS ADDED | J.E.R. | H.P.C. | J.E.C. M.W.C. |
| 3 | PLATFORMS ADDED | S.E.B. | H.P.C. | G.C.H. M.W.C. |
| 2 | ISSUED FOR UNIT NO. 6 REVISED BY DESIGNED | S.E.B. | H.P.C. | G.C.H. J.S.F. M.W.C. |
| 1 | GENERAL REVISIONS. | S.E.B. | H.P.C. | G.C.H. H.S.K. M.W.C. |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# MACHINE LOCATION PLAN - CROSS SECTION

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1/4" = 1 FT
JAN. 21, 1952

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 2-23-52 | 2-22-52 | 2-27-52 | 2-28-52 |
| C.T.G. | H.P.C. | H.S.K. | M.W.C. |

8757-RM-1

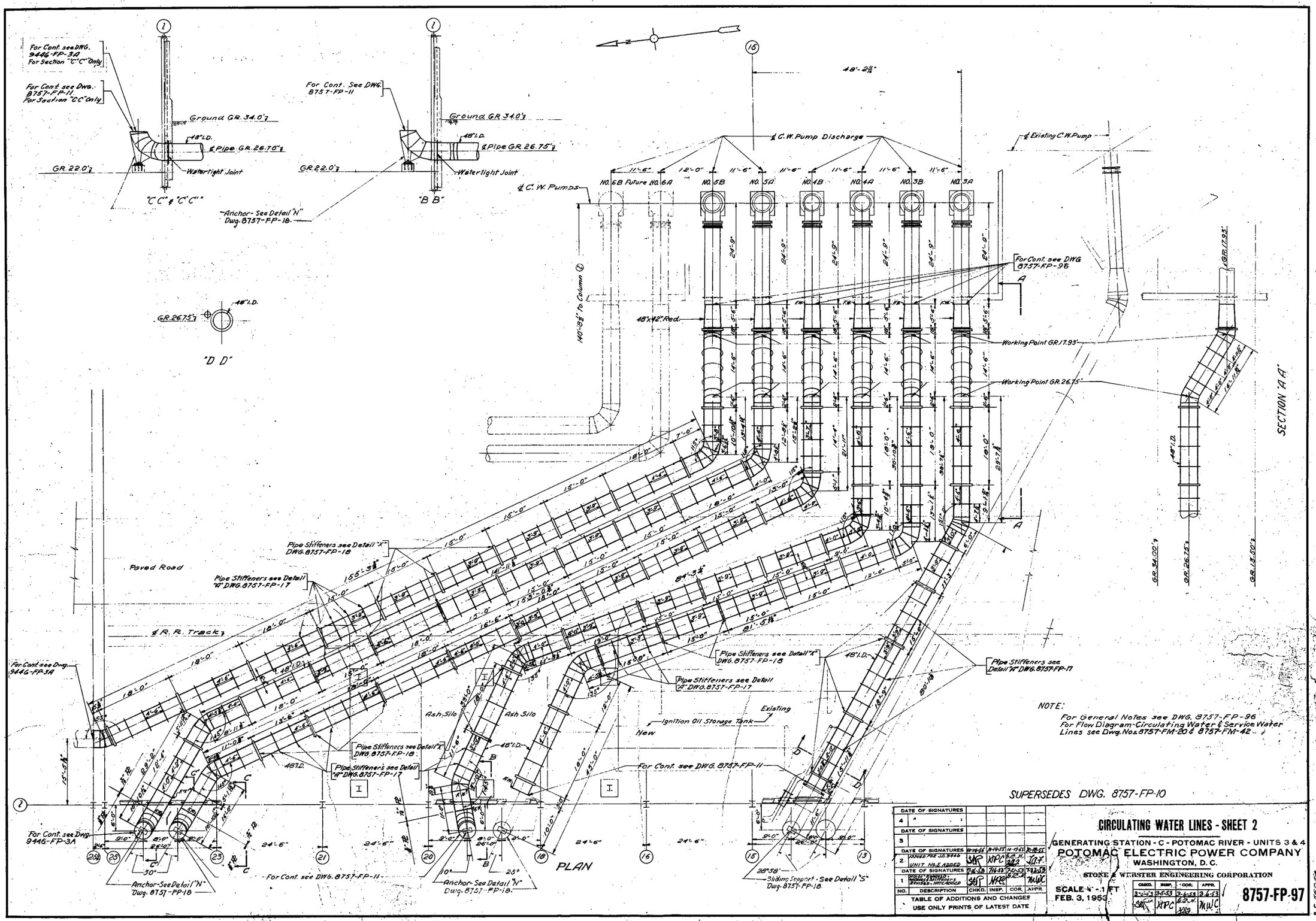
A.E. 47864

Traced by Rose Arsenault
Tr. Checked by

Designed by
Des. Chkd. by

Drawn by A.B. Stewart
Chkd. by

P:\cadd\1108 mj per\rk\rtect\bldg tfrs\tfrs gen\-exterior.dwg, Model, 8/4/2014 12:20:34 PM, JOConnor




NOTE:
For General Notes see DWG. 8757-FP-96
For Flow Diagram-Circulating Water & Service Water Lines see Dwg. Nos. 8757-FM-20 & 8757-FM-42

SUPERSEDES DWG. 8757-FP-10

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | ISSUED FOR J.D. 9446 UNIT NO. 5 ADDED | SAP | KPC | B.A.H. 3/2/7 | J.A.F. |
| 1 | NOTES REMOVED - WIDENED & STIFFENERS REVISED - NOTE ADDED | SAP | KPC | B.A.H. | MWC |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# CIRCULATING WATER LINES - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE ¼" - 1 FT
FEB. 3, 1953

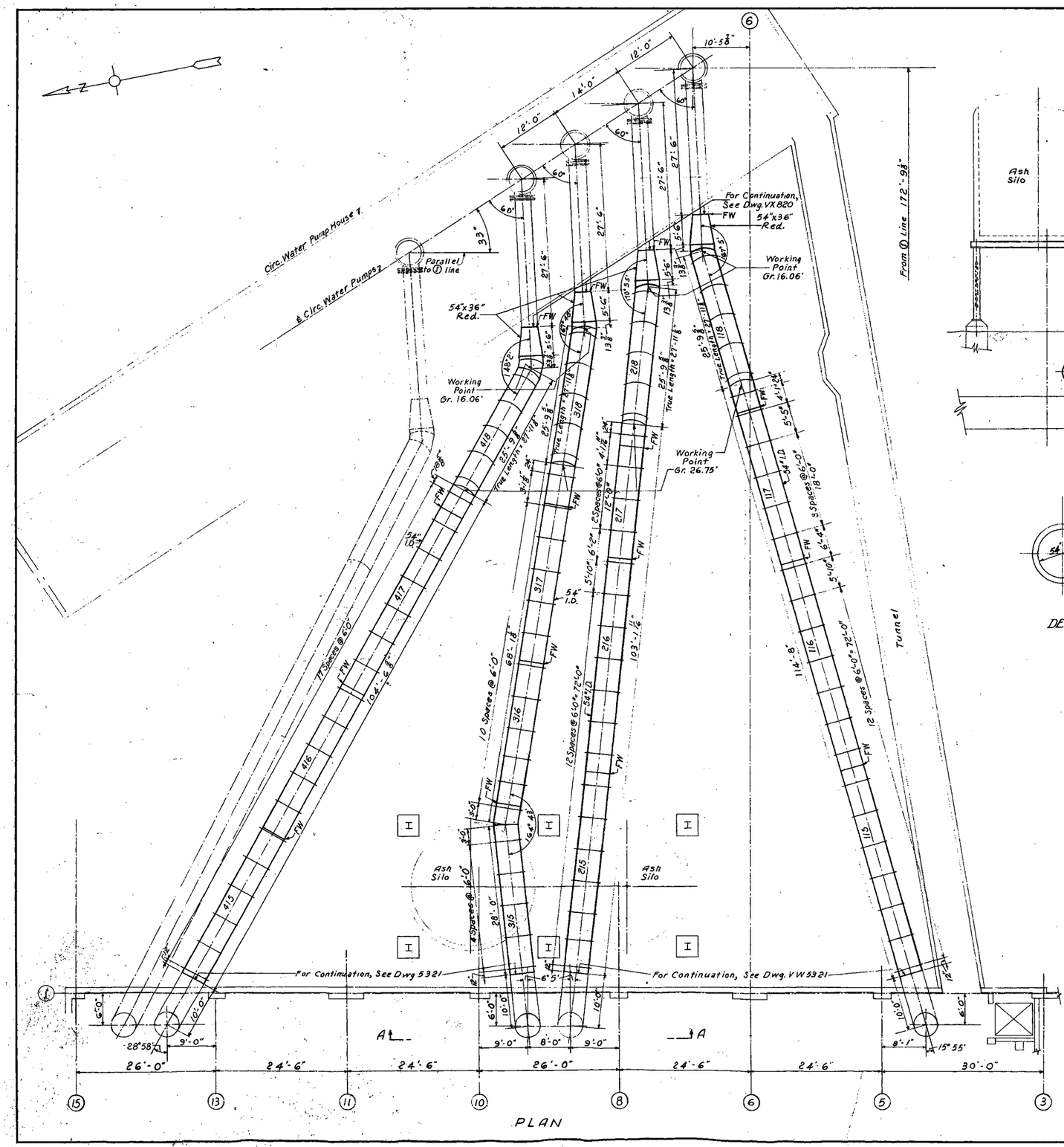
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 3-6-53 | 3-5-53 | 3-6-53 | 3-6-53 |
| SAP | KPC | B.A.H. 3/8/9 | MWC |

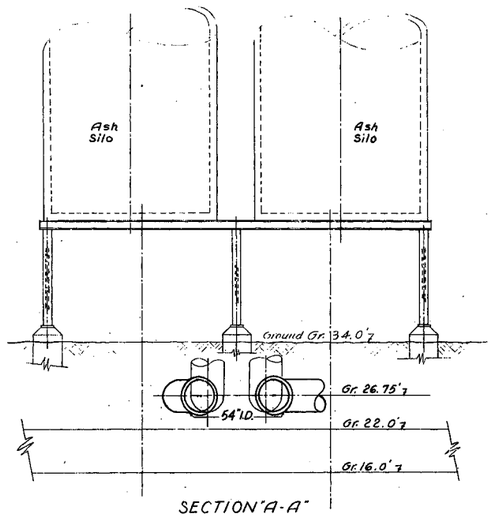
8757-FP-97

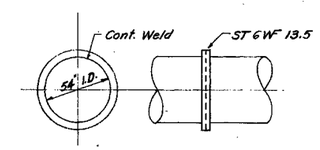
R.C. 56054

Designed by
Des. Chk'd by
Drawn by Z. Baranauskas
Chk'd by K.M. Blake

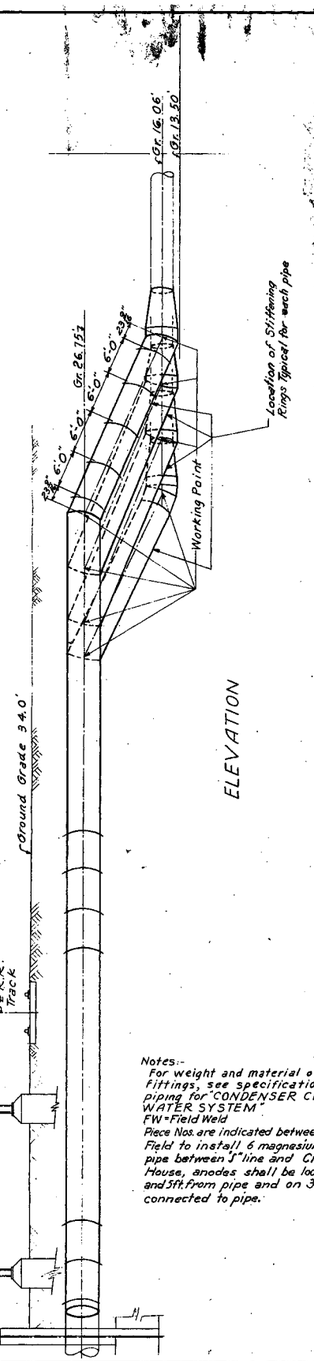
P:\cadd\1108 nrg pot riv\recd\bldg tfis\tfis genl-exterior.dwg, Model, 8/4/2014 3:49:01 PM, JOConnor




DETAIL - STIFFENING RING
Scale ¼" = 1'-0"




ELEVATION

Notes:-
For weight and material of pipe and fittings, see specifications for fabricated piping for "CONDENSER CIRCULATING WATER SYSTEM"
FW = Field Weld
Piece Nos. are indicated between Field Welds.
Field to install 6 magnesium anodes per pipe between "S" line and Circ. Water Pump House, anodes shall be located parallel to and 5 ft. from pipe and on 30 ft. centers, and connected to pipe.

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | NOTE ADDED | LMR | HPC | [illegible] | [illegible] |
| 2 | PIECE NOS. & FIELD WELDS ADDED, STIFFENER RINGS RELOCATED, NOTES ADDED | LMR | HPC | E.A.G. [illegible] | [illegible] |
| 1 | STIFFENING RINGS & DETAIL ADDED | LMR | HPC | E.A.G. [illegible] | [illegible] |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# CIRCULATING WATER LINES - PUMP HOUSE TO STA.

YARDS & GROUNDS

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY, INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE ¼" = 1 FT
JAN. 6, 1948
J. O. NO. 7901

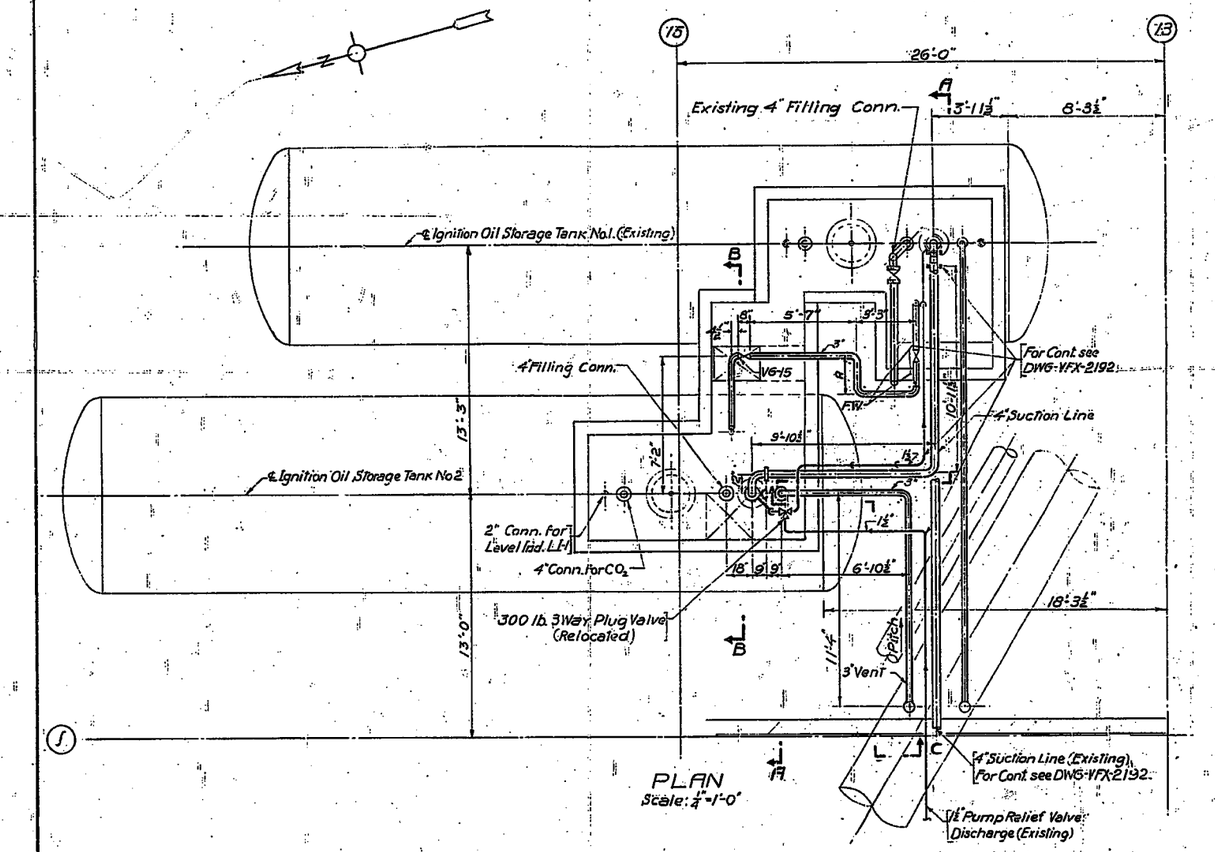
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 2-18-49 | 2-18-48 | 2-19-48 | 2-19-48 |
| LMR | HPC | E.A.G. [illegible] | [illegible] |

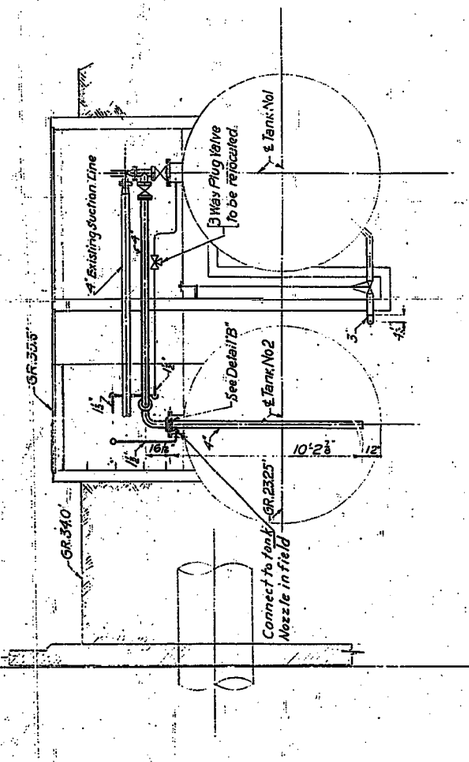
V X 95

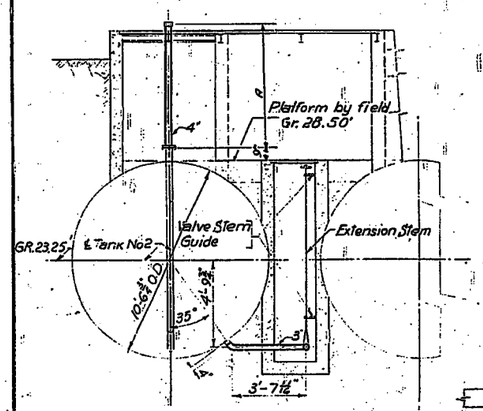
R.C. 6220

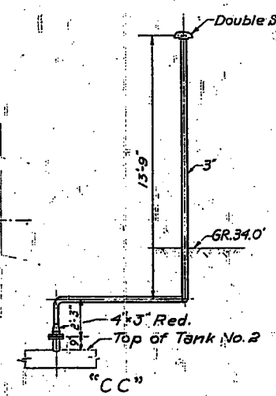
Designed by C.O.B.
Des. Chk'd by
Drawn by N. Pine
Chk'd by W. Fox

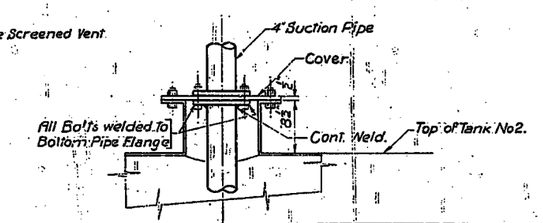
P:\cadd\1108 nrg pot riv\recd\bldg tfis\tfis genl-exterior.dwg, Model, 8/4/2014 3:48:10 PM, JOConnor




NOTES:

ALL PIPING 2½" AND UNDER SHOWN DIAGRAMMATICALLY ONLY; EXACT LOCATION TO BE DETERMINED IN FIELD.
For weight and materials of pipe and fittings see Piping Specification Schedule No.150
Size and drilling of flanges to be 150 lb. A.S.A. Standard.

Suitable hangers and supports to be provided by piping contractor.
A - Dim. to be determined in field.

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# IGNITION OIL LINES & TANK

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
FEB. 26, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 3-25-53 | 3-25-53 | 3-25-53 | 3-26-53 |
| WRC | W.C.H. | MWC | |

8757-HP-101

R.C. 49570

J.W.S. 3-23-53 QER 3-23-53 Designed by W.J. RUTYNA
RB 3-23-53 Des. Chk'd by
Drawn by A. NORKIN.
Chk'd by R.B. Winchester.

Ch'd. Bost. Engr. Gordon Eng'r. Contr. Ellis Ferris K.
Engineer H.S. FREDERICK

P:\cadd\1108 nrg pot riv\recd\ddg tifs\tifs genl+exterior.dwg, Model, 8/4/2014 3:35:21 PM, JOConnor

110-C

SIZE E

NOTE:
FOR DIMS. & DETAILS OF PIPE CAPS & PIERS SEE DWG. 11606-C-010.

NOTE:
FOR LOCATION OF GROUND CABLE PENETRATIONS THRU SLAB SEE DWG. 7E-GSC-133 THRU 7E-GSC-136

#4 @ 12" O.C., E.W., TOP & BOTT. (TYP. SLAB REINF.) SEE TYP SLAB & BASE COURSE DETAIL.

1" EXPANSION JOINT (TYP AROUND EA. PILE CAP U.N.O.)

DRAINAGE NOTE:
FOR DRAINAGE (SLOPES, TRENCHES, DRAIN PIPING, ETC.) SEE DWG. 11606-C-047.

EXIST. DISTILLED WATER TANK FDN. (SEE DWG. 9446-FC-28A), THICKEN SLAB AT ABUTTING SIDES (SEE TYP. SLAB & BASE COURSE DETAIL).

PLAN
SCALE: 1/8"=1'-0"

SECTION (R) (AS NOTED)
SCALE: 3/8"=1'-0"

SECTION (S)
SCALE: 3/8"=1'-0"

SECTION (T)
3/8"=1'-0"

DETAIL (3) (C-011)

DETAIL (2) TYP. WALL REINF. AT COLUMNS
3/4"=1'-0"

SECTION (J)
3/8"=1'-0"

SECTION (A)
SCALE: 3/8"=1'-0"

SECTION (AA BB)
SCALE: 3/8"=1'-0"

SECTION (F)
SCALE: 3/4"=1'-0"

SECTION (N)
SCALE: 3/4"=1'-0"

SECTION (Y)
SCALE: 3/4"=1'-0"

SECTION (K)
3/8"=1'-0"

SECTION (B)
SCALE: 3/4"=1'-0"

SECTION (E)
3/4"=1'-0"

DETAIL (1)
SCALE: 1"=1'-0"

SECTION (Q)
SCALE: 3/8"=1'-0"

SECTION (Z) AS NOTED
SCALE: 1/2"=1'-0"

TYP. DETAIL AROUND PILE CAP OR PIER

NOTE: FOR PROPERTIES FOR BASE COURSE SEE NOTE NO 7

TYP. SLAB & BASE COURSE DETAIL U.O.N.

NOTES
1. FOR GENERAL NOTES SEE DWG C-010.
2. WORK THIS DWG TOGETHER WITH DWGS. C-012, C-047 & C-055
3. AFTER EXISTING CONC IS REMOVED AND REINF. CUT PROVIDE GROUT TO COVER REINF EXPOSED TO EARTH OR WEATHER. (U.O.N.)
4. LOCATION & DETAILS OF DOORS & REMOVABLE PANELS & OPENINGS SEE ARCHITECTURAL & ELECTRICAL DRAWINGS
5. EXIST DRAINS TO BE FILLED W/SAND BEFORE PLACING NEW SLAB
6. BOTH BASE COURSE AND CLAY TO BE COMPACTED TO 95% OF ASTM D-698. AGGREGATE WILL BE SIZE #20 AS DEFINED IN VIRGINIA DEPT. OF HIGHWAYS SPECIFICATIONS SECT 210.01 (1966).
7. STOOPS SHOWN SHALL BE CENTERED ON DOOR OPENINGS AND T/CONC. WILL BE AT ELEV. EQUAL TO LOAD CENTER ROOM H.P. REINF. W/WWF 4 x 4 - 5/5 (2 LAYERS).
8. ADDITIONAL PADS OR PIERS FOR WHICH INFORMATION IS NOT AVAILABLE WILL BE ADDED AT A LATER DATE; HOWEVER, THEY WILL POURED ON TOP OF THE SLAB AND SHOULD NOT INTERFERE WITH THE TIMELY COMPLETION OF THE MAIN SLAB.
9. FOR DETAILS OF PRECIP & PAVING PLAN & RETAINING WALL SEE DWG. 11606-C-055.

REFERENCE DRAWINGS

| | |
|---|---|
| 7E-GSC-135 THRU 136 | SITE KEY PLAN & LAYOUTS |
| 11606-C-047 | AREA DRAINAGE & PIPING PLAN SECT & DETS |
| 11606-D008 | PRECIPITATOR UNITS 1 THRU 5-FOUNDATIONS, SECTS & DETS |
| 11606-D009 | PRECIPITATOR UNITS 1 THRU 5-FOUNDATION PLAN |
| 11606-D010 | PRECIPITATOR UNITS 1 THRU 5-FOUNDATIONS, SECTS & DETS |
| 11606-C022 | PRECIPITATOR CONTROL ROOM ELEVATED SLAB SHEET NO 1 |
| 1606-M-8 | GENERAL ARRANGEMENT HOT PRECIPITATOR NOS 1-4 |
| 7E-GSC-111 | ELECTRICAL EQUIPMENT LAYOUT CONTROL ROOM NO 1 & LOAD CENTER ROOM NO 1 (LC-P1) |
| 7E-GSC-112 | ELECTRICAL EQUIPMENT LAYOUT CONTROL ROOM NO 2 & LOAD CENTER ROOM NO 2 (LC-P3, P4 & P5) |
| 7E-GSC-113 | ELECTRICAL EQUIPMENT LAYOUT LOAD CENTER ROOM NO. 3 (LC-A) |
| VFX 7281 | FOUNDATION DETAILS ASH SILO-CONC |
| VFX 7282 | VALVE PIT DETS. & ASH SILO FOUNDATION-CONC. |
| 11606 A-002 | ARCH FLOOR PLAN, SECTIONS AND DETAILS. |

| NO | DATE | REVISIONS | BY | CHKD | APPD | DRAWING NO. |
|---|---|---|---|---|---|---|
| 4 | 6-18-79 | REV. FOR AS-BUILT | PJ | MGJ | | PC |
| 3 | 2-11-77 | ISSUED FOR CONSTRUCTION | BB | EMM | | MB |
| 2 | 1-14-77 | GENERAL REVISION | JT | FEK | EMM | BB |
| 1 | 10-18-76 | CONC. WALL ADDED | BB | EMM | EMM | AB |
| A | 8-30-76 | GENERAL REVISIONS & REISSUED | JR | JG | EMM | BB |
| 0 | 7-1-76 | ISSUED FOR APPROVAL/BID | | | EMM | AB |

SCALE NOTED | DATE 7-1-76 | DESIGNED | DRAWN WJS | CHECKED

BECHTEL
GAITHERSBURG, MARYLAND

STACK GAS EMISSION CONTROL SYSTEM
GENERATING STATION C POTOMAC RIVER JOB C0538
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

PRECIPITATOR UNITS 1 THRU 4
EQUIPMENT FOUNDATIONS & PAVING PLAN

| JOB No. | DRAWING No. | REV. |
|---|---|---|
| 11606 | C-011 | 4 |

34 x 44 "E" SIZE

P:\cadd\11108 nrg pot rlv\rectl\bldg tfls\tfs gen1-exterior.dwg, Model, 8/4/2014 3:49:45 PM, JOConnor

C-047

NOTE A: NEW EQUIP. FOUNDATIONS TO HAVE H.P. EL. 34'-0" ALL AROUND. (TYP. EXCEPT FOR FDNS. COVERED BY NOTE "D".

NOTE B: H.P. (HIGH POINT) AS NOTED ON THIS PLAN = 34'-0" (NOMINAL ELEV. OF LOW SLAB.) — H.P.* INDICATES EL. 34'-8⅝" TYP. FOR RAISED SLABS ONLY.

NOTE C: T/COL. FDN. EL. 34'-0" (TYP. UNO) H.P. SLAB (EL. 34'-0") TYP. @ ALL SIDES OF EA. FDN. UNO.

L.P. T/DRAIN EL. 33'-9" INV. EL. 31'-8⅝" - SEE DET. (1)

LOAD CENTER ROOM NO 3 (T/SLAB EL. 34'-9" - SEE NOTE E)

LOAD CENTER ROOM NO. 2 (T/SLAB EL. 34'-8⅝" - SEE NOTE E)

LOAD CENTER RM. 1 (T/SLAB EL. 34'-8⅝" SEE NOTE E)

EXIST. PUMP STA. NO 1

EXIST. M.H. INLET BASIN

EXIST. VALVE PIT

OIL SPILL CATCHMENT TRENCH

EXIST. DISTILLED WTR. TANK FDN.

B.A. VAC. BLWR. FDN.

B.A. PRESS. BLWR. FDN.

F.A. PRESS. BLWR. FDN.

F.A. VAC. PUMP FDN.

SILENCER PADS

SILENCER PAD

SPEED BUMPS

STAIR 3 PIERS

STAIR 2 PIERS

STAIR 1½ PIERS

HUB END OF 4"ϕ C.I. PIPES - T/EL. 34'-2"

HUB END OF 4"ϕ C.I. PIPE T/EL. 33'-11", INV. EL. 31'-8⅝"

HUB END OF 12"ϕ C.I. PIPE T/EL. 34'-3"

NEW 12"ϕ C.I. TO EXIST. INLET

24"ϕ SONOTUBE CAISSON PIERS (SEE DWG. C-011)

NEW 15"ϕ R.C. DRAIN TO TIE INTO EXIST 15"ϕ ROOF DRAIN

EXIST. M.H. (T/EL. 34')

EXIST. CONC. ROAD

20' WID. ROAD

UNIT 1 · UNIT 2 · UNIT 3 · UNIT 4

(AREA TRENCH) · (AREA DRAINAGE TRENCH)

NOTE D:
THESE FDNS. ONLY TO HAVE A H.P. OF 34'-8⅝"

NOTE E:
LOAD CENTER ROOMS 1, 2 & 3 TO HAVE SLABS FINISHED AS LEVEL AS POSSIBLE WITH NO SLOPE.

WORK THIS DWG WITH DWG. 11606-C-011

## DRAINAGE PLAN UNITS 1 THRU 4
(DETAILS NOT SHOWN SEE DWG. C-011)
SCALE: ⅛" = 1'-0"

## DRAINAGE PLAN UNIT 5
(FOR DETAILS NOT SHOWN SEE DWG. C-055)
SCALE: ⅛" = 1'-0"

NOTE: FOR DETAILS NOT SHOWN SEE PLAN ON DWG. C-011

H.P. EL. 34'-0" TYP. @ PERIMETER OF CONC. SLAB & WHERE NOTED H.P.

HANDRAIL

T/COL. FDN. EL. 34'-0" (TYP.) H.P. SLAB EL. 34'-0" (TYP. @ ALL SIDES OF EA. COL. FDN.)

DETAIL (1) — X-HVY. DUTY C.I. AREA DRAIN W/ 12"ϕ INLET & 4"ϕ OUTLET (TRAFFIC BEARING TYPE); SLOPE (½"/FT. MIN.); INVERT EL. TO THIS POINT; 4"ϕ C.I. ½ BEND

DETAIL (2) NOTED — SEE PLAN FOR INVERT ELEV.; L.P. T/GRT'G.; SLOPE; C.I. DRAIN LINE; C.I. DRAIN; FOR DETAILS OF TRENCH SEE SECT. D/C012; INVERT OF INLET PIPE ABOVE BOTT. OF TRENCH FOR DET. 2 & FLUSH W/ BOTT. OF TRENCH FOR DET. 3 AT OUTLET PIPE

DETAIL (3) NOTED — ℄ TRENCH; HVY. DUTY C.I. TRENCH DRAIN W/INTERNAL TRAP & STRAINER 12" INLET & 6"ϕ OUTLET; FOR DETAILS OF TRENCH SEE SECTION D/C012; 6"ϕ C.I.; INV. EL. 31'-5⅛"; CONC. TO BE THICKENED TO 1'-8" @ DRAIN

SECTION (A) ½"=1'-0"

EXIST. M.H. INLET BASIN · 15"ϕ RCP · INSTALLED 15"ϕ RCP · EXIST. PUMP STA. N°1 (SEE DWG. 7E-GSC-005) · CONC. SLAB UNDER PRECIP 1-4 · CONC. SLAB UNDER PRECIP N° 5 · EXIST. BLDG. · UNIT 5 · UNIT 4 · UNIT 3 · UNIT 2 · UNIT 1

NOTE: FOR NEW PIPE TIE-IN TO EXIST. INLETS & PUMP STA. SEE DETAIL (5)

DETAIL (4) NTS

NOTE: EXIST. PIPING & PIPING ON PLAN ABOVE NOT SHOWN FOR CLARITY

EXIST M.H. INLET BASIN · EXIST. 18"ϕ RUN-OFF · INV. EL. Y LINE 25'-6"±

BREAK OUT OPNG AS REQ'D TO INSTALL PIPE & REGROUT W/ MASTERFLOW "715" · CUT & BEND EXIST BARS AS REQ'D. · ADD 2 NEW #6 RING TIE BARS I.E.F. & WELD. · PREPARE WALL OPN'G. W/APPROPRIATE BONDING AGENT

DETAIL (5) N.T.S.

TYP. CONN. NEW PIPE TO EXIST INLETS

## NEW DRAIN PIPING IN NON-PAVED AREA

NOTE: FOR CONN. OF NEW PIPE TO EXIST. PUMP STATION SEE DETAIL (3/C-011)

*X-HVY. DUTY C.I. AREA DRAIN W/12"ϕ INLET & 4" OUTLET (TRAFFIC BEARING TYPE) · L.P. T/DRAIN EL. 33'-10½" · T/MANWAYS EL. 34'-0" · NEW REMOV. EXTEN. TO ROOF COVER DET. (3/C-011) · EXIST. REMOVABLE CONC. ROOF COVER · POUR NEW SLAB AROUND EXIST. MANWAY COVER (THIS END ONLY) · INSTALLED 15"ϕ RCP · SEE DETAIL 5 & NOTE ABOVE (SEE DWG. 5C-0009) · NEW 4"ϕ C.I. DRAIN LINE · W.P. @ EL. 27'-7½" · INV. EL. 25'-0" · 15"ϕ C.I. DRAIN LINE FROM TRENCH · NEW 15"ϕ C.I. TO EXIST. M.H. INLET BASIN. · 15"ϕ Y-BEND + ⅛ BEND (INV. EL. @ ℄ OF Y 26'-0"±) FIELD CUT ⅛ BEND AS REQ'D TO ALIGN PIPE. · EXIST. PUMP STA. N°1 (FOR DETAILS SEE DWG. 7E-GSC-005)

*NOTE: FIELD MAY VARY LOCATION OF NEW DRAIN AS REQ'D. TO AVOID CUTTING REINF. IN TOP OF EXIST. PUMP STATION.

SECTION (B) C-047 ¼"=1'-0"

NOTE: FOR GEN. NOTES & REF. DWG. SEE C-011

| NO. | DATE | REVISIONS | BY | CHKD | MANAGER | PROJ | APPR |
|---|---|---|---|---|---|---|---|
| 1 | 6-19-79 | REVISED FOR "AS-BUILT" | SJ | MWL | | | JBL |
| 0 | 6-11-77 | ISSUED FOR CONSTRUCTION | PD | DBH | | | RWG |
| B | 1-3-77 | REV. DRAINAGE TRENCH MISC. PILE CAPS & DET. B | PD | DBH | | | RWG |
| A | 9-30-76 | ISSUED FOR CLIENT APPROVAL | PD | JJS | | | RWG |

ROM'S NOTED DATE 9-30-76 DESIGNED DRAWN DAVIS CHKD

BECHTEL
GAITHERSBURG, MARYLAND

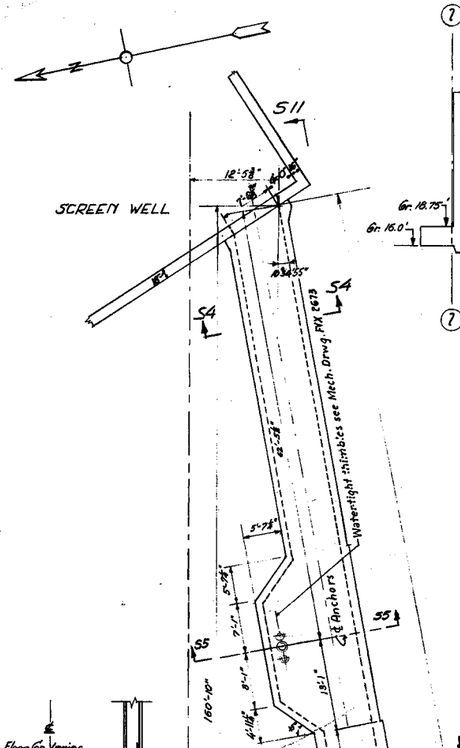
STACK GAS EMISSION CONTROL SYSTEM
GENERATING STATION C POTOMAC RIVER JOB C0538
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

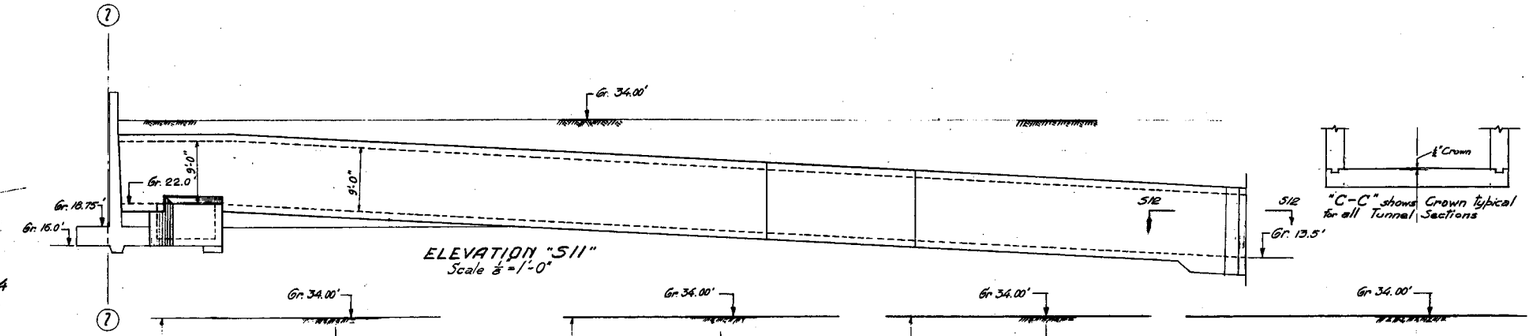
PRECIPITATOR UNITS 1 THRU 5
AREA DRAINAGE & DRAIN PIPING
PLAN, SECTIONS & DETAILS

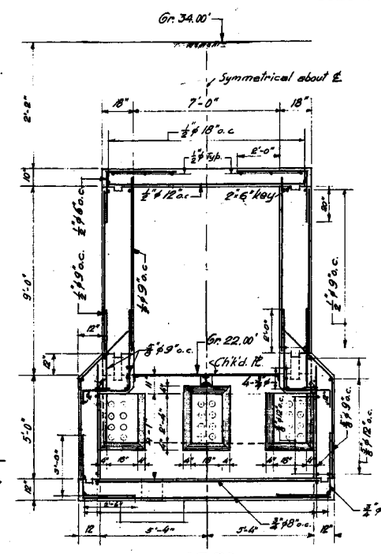
| JOB No. | DRAWING No. | REV. |
|---|---|---|
| 11606 | C-047 | 1 |

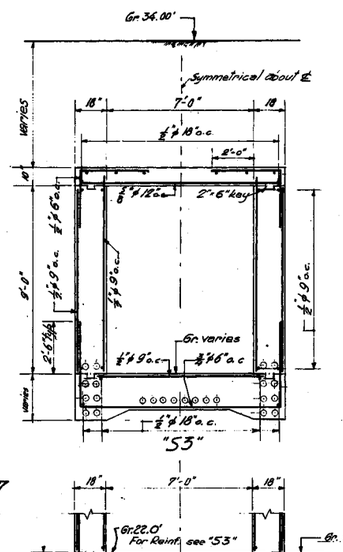
34 x 44 "E" SIZE

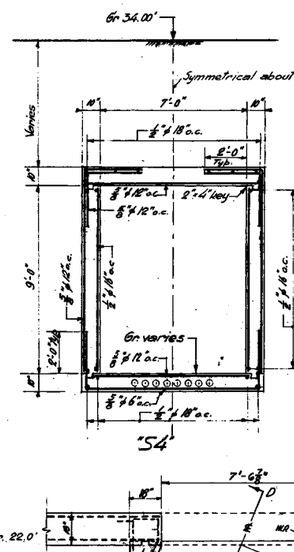
P:\cadd\11108 nrg pot riv\recd\bldg tf\stf\s gent-exterior.dwg, Model, 8/4/2014 3:50:30 PM, JOConnor

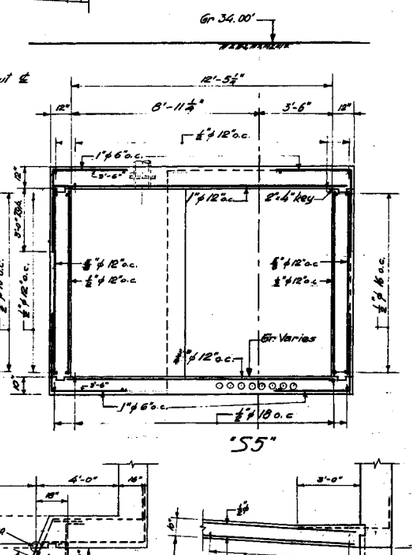


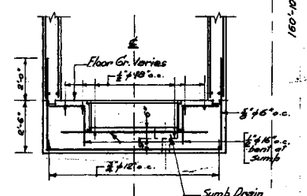



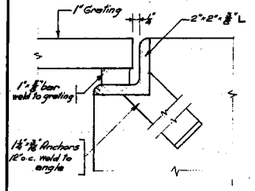



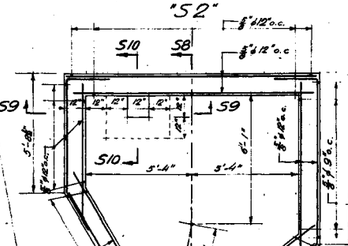



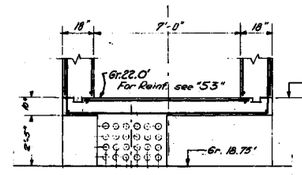



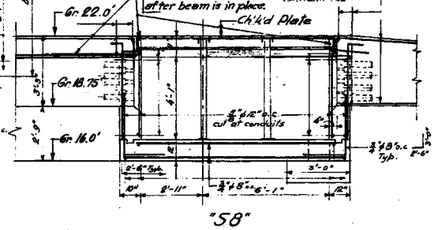



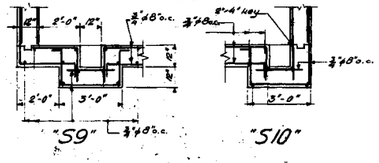



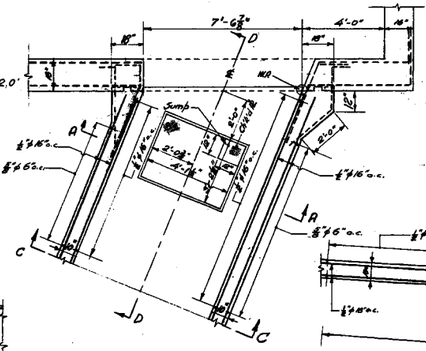



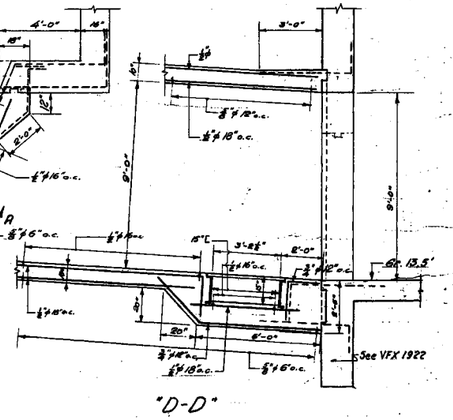




Notes:
Scale 3/8"=1'-0" unless otherwise noted.
Ultimate Comp'n Strength of Concr. @ 28 days to be 2500 lbs per sq. in.
Reinf. to be deformed bars & lapped 40 dia. when contin.
Dimensions to Reinf. from face of Concr. are clear distances
For Location & Details of Elec. Conduits & Misc. elec. equip see VFX 1639
For " — " Checkered ℄ & Steel Framing see VFX 1640
For Ch'k'd ℄ details and steel frame at pull box see Elec. Dwgs.

APPROVED Ernest A. Dewitt
CERTIFIED PROFESSIONAL ENGINEER NO. 9885
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 1 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 2 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# TUNNEL - L LINE TO SCREENWELL - CONCRETE

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAR. 24, 1948
J.O. NO. 7901

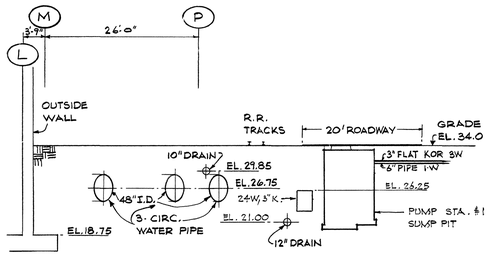
| | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|
| | 4-15-48 | 4-22-48 | 5-12-48 | 6-1-48 |

VFX 1865

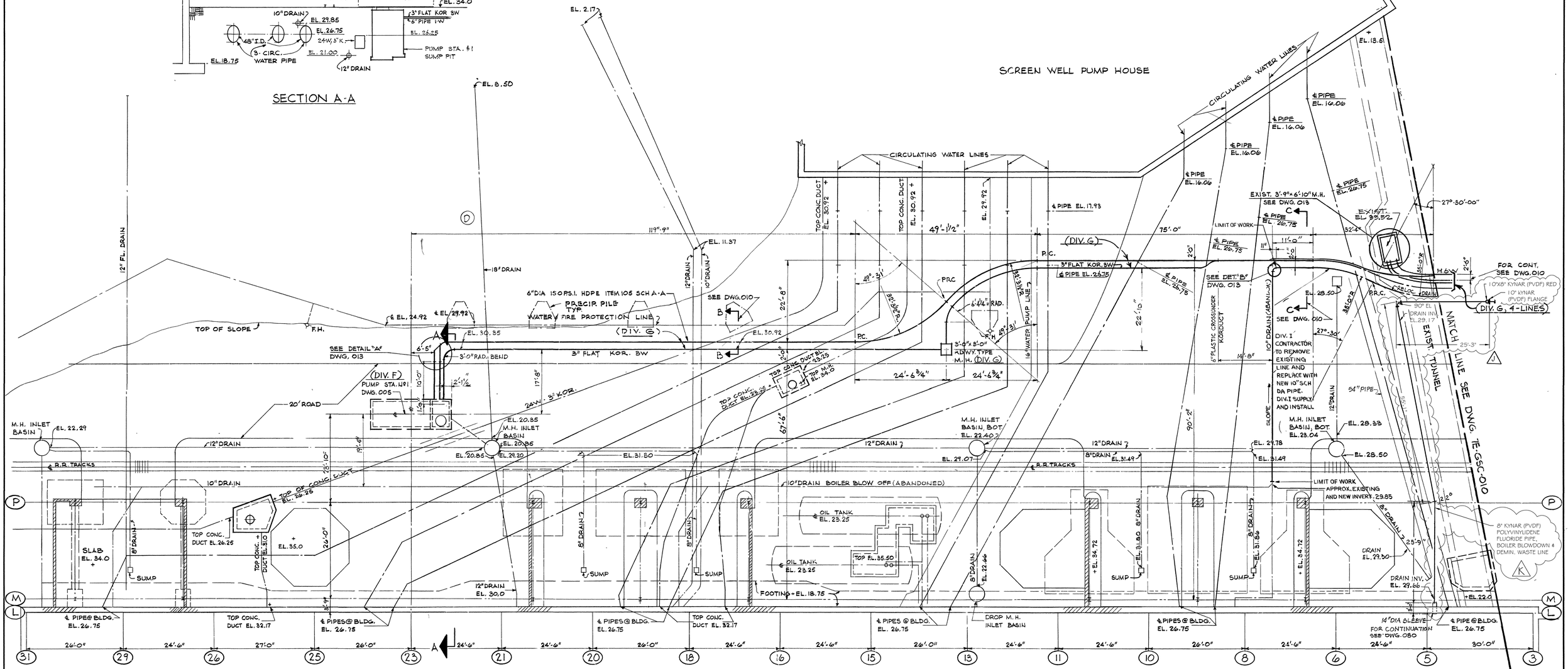
R.C. 107340

Designed by J. Medlock Drawn by E. Manomaitis
Des. Chk'd by L.S. Reiniger Chk'd by R. Olney

P:\cadd\11108 nrg pot rlv\recd\bldg tifs\tifs genl-exterior.dwg, Model, 8/5/2014 12:29:11 PM, JOConnor




SECTION A-A




NOTE B

(B) DIVISION F & B NOTATIONS REFER TO DIVISIONS OF WORK IDENTIFIED IN THE PHASE I SPECIFICATIONS.

## NOTES

1) FOR PIPING INSTALLATION NOTES SEE DWG. Nº 7E-GSC-010
2) FOR GENERAL PIPING NOTES SEE DWG Nº 7E-GSC-014

## REFERENCE DRAWINGS

| | |
|---|---|
| 7E-GSC-002 | SITE & GRADING PLAN |
| 7E-GSC-005 | PUMP STATION Nº1 SUMP PIT DETAILS |
| 7E-GSC-010 | SITE & UTILITIES PLAN SHT. 2 |
| 7E-GSC-013 | MISCELLANEOUS PIPING DETAILS |
| 7E-GSC-014 | PIPING MATERIALS SPECIFICATION |
| 7E-GSC-080 | PLAN & SECTION SHT. 3 OF 4 |

(E) DIV. I CONTRACTOR SHALL PERFORM ONLY THAT WORK NOTED UNDER REVISION "E"

16' 12' 8' 4' 0 16' 32'

SCALE: 3/32"= 1'-0"

JOB NO. C0508

POTOMAC RIVER GENERATING STATION "C"
FLYASH DEWATERING & WASTEWATER NEUTRALIZATION SYSTEM
SITE AND UTILITIES PLAN SHT. #1

**POTOMAC ELECTRIC POWER CO.**

| CHKD | APPD | APPD | APPD | APPD | APPD | DR BY D.W. | ENGR A.G.M. | CLASS |
|---|---|---|---|---|---|---|---|---|
| 1930/78 | 2/26/75 | 10/31/78 | 11/13/78 | | | DATE 10-30-15 | SCALE 3/32"=1'-0" | |
| JWW | V.C.W. | | | | | | 7E-GSC-009 | REV K |

| | DESCRIPTION | CORR | CHKD | APPD | APPD | APPD | APPD | APPD |
|---|---|---|---|---|---|---|---|---|
| J | AS BUILT | GEM 2/7/88 | JWW 2/22/88 | | | | | |
| H | REPLACE BOILER BLOW-DOWN PIPE -T-1705 | W.C.D. 1-7-88 | A.E.L. 11/3/88 | JRR 1/13/88 | LJB 1/14/88 | | | |
| G | RELOCATED BOILER BLOW DOWN PIPE JOB No. C0588 | RLW 3/14/77 | JWW 3/24/77 | DLP 3-24-77 | RNP 7/24/78 D.A.E. | | | M |
| F | AS BUILT JOB Nº C0508 | D.W. 7-29 78 | JWW 9/19/78 | V.C.W. 9/19/78 | LJW 9/13/78 D.A.E. | | | M |
| E | REVISED FOR PHASE II WORK ADDED NOTE "E" JOB C0508 | F.D.B. 4/8/76 | JWW 4/8/76 | D.A.E. 5-17-76 | RNP 7/6/76 | D.A.E. 7/9/76 | | |
| D | MOVED PIPING TO AVOID PRECIP. PILES JOB Nº C0508 | JJA 3-1-76 | JWW 3/2/76 | V.C.W. 3/5/76 | D.A.E. 3-2-76 | RNP 3/4/76 | CWD 3/3/76 D.A.E. | |
| C | CHG'D. RADIUS ON 6"DIA. PIPE TO 15'0" & PUMP STA. Nº1 TO AGREE WITH DWG. Nº 005 JOB Nº C0508 | D.W. 1-12 76 | JWW 1/13/76 | D.A.E. 1-13-76 | D.T.O. 1-14-76 | R.B.P. 1-14-76 | RNP 1/16/76 | |
| B | ADDED NOTE B JOB C0508 | L.H. 12-17 75 | JWW 12/19/75 | D.A.E. 12-19-75 | R.B.P. 12-22-75 | R.B.P. 12/31/75 | RNP 1/2/76 D.A.E. | |
| A | CHG'D. PIPING & DUCT LINE ARRG'T. DUE TO REMOVAL OF SCALES & SCALE HOUSE JOB Nº C0508 | D.W. 12-1 75 | JWW 12/1/75 | D.A.E. 12-3-75 | R.B.P. 12-3-75 | R.B.P. 12-3-75 | R.B.P. 12/11/75 | |

REVISIONS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| K | REPLACED EXISTING 10" BOILER BLOWDOWN PIPE WITH 8" KYNAR (PVDF) PIPE | JMK 11/13/01 | | | | | | | |

7E-GSC-005 | REV G

(4) LIFTING INSERTS RICHMOND MDIA. LP-4 WITH (4) 1"LDLP DUC SWIVEL LIFT PLATES

3/4" WEJ-ITS 5" MIN EMBEDMENT 7" LENGTH 5 TOTAL REQ'D.

#14 GA. GALV. STL. STRAP 8" WIDE

EXTRA HEAVY 15" NOMINAL DIA. GRAY IRON PIPE

EXTRA HEAVY 15" NOMINAL DIA. GRAY IRON, BELL & PLAIN END, 90° LONG SWEEP ELBOW, CAST IN HYDRAULIC CEMENT

MATERIAL SHOWN FURN. AND INSTALLED BY DIV. I CONTR. PRIOR TO SYSTEM IN SERVICE.

SEE NOTE 5

3" HYDRAULIC CEMENT

EXIST. 18" DRAIN

INSTALL BAND ON ELBOW BEFORE INSERTION IN EXIST. DRAIN. THE BAND SHALL ACT AS A STOP FOR PACKING GROUT.

#4 BARS @ 12" ⅝ HOR. & VERT. OUTSIDE FACE

PACK GAP BETWEEN EXIST. DRAIN & NEW ELBOW WITH HYDRAULIC GROUT.

## SECTION J-J

#4 MULTIPLE LOOP STIRRUPS @6"⅝, 3/4" (NOT SHOWN IN PLAN)

#6 BARS @6"⅝ TOP & BOT.

#4 STIRRUPS @4"⅝

#3 TIES @9"⅝

## SECT. A-A

#4 STIRRUPS @4"⅝

2#5 @3"⅝ TOP & BOT.

#4@6"⅝

## SECT. B-B

#4 MULTIPLE LOOP STIRRUPS @6"⅝

#4@6"⅝ EA. WAY TOP

#4@6"⅝ #8@6"⅝ BOT.

## SECT. C-C

## REM. SLAB DETAIL

SCALE: 1½"=1'-0"

#4@12"⅝ 3'-0" LG. TYP. ALL CORNERS MAINTAIN COVER

#5 BAR TOP & BOT. 4'-0" LG.

#4 BARS @ 9"⅝

4" STL. PIPES

6" DIA. STL. SCH 30 ITEM 170 SEE SECT. D-D (DIV. F)

WELD CRETE ALL EXIST. SURFACES PRIOR TO POURING NEW CONCRETE

FOR ANC. BOLT SETTING SEE PLAN

## ROOF PLAN REINF

SCALE: ½"=1'-0"

SUMP PUMP PL.

CLOSER PL.

W/W INSIDE

MTG. PL.

EDGE CLEARANCE

(12) 7/8" ø A. B.'S SEE DET

## ANC. BOLT PLAN

SCALE: 1½"=1'-0"

EXIST. D. DRAIN

15" DIA. PIPE SEE SECT. J-J

## SECT.

EXIST. M.H. INLET BASIN FL. EL. 21.25

FOR REINF. SEE SECT. J-J

#6 BARS @ 6"⅝ CONT.

#5 BARS @ 12"⅝ HORIZ.

#4 BARS @ 12"⅝ HORIZ.

#5 DOWELS @ 1'-0" ⅝ TYP.

2#4 KEY TYP.

EL. 21.17

CONT. NEOPRENE WATERSTOP 6" FLAT DUMBBELL

## SECTION F-F

#6 BARS @ 6"⅝ VERT.

#6 BARS @ 12"⅝ HORIZ.

#4 BARS @ 12"⅝ HORIZ.

(2) 4" STL. PIPE SLEEVES PURN. ON DWG. 915.

ANC. BOLTS SEE PLAN

SEE DET. "B"

#6 BARS @ 6"⅝ VERT.

#6 BARS @ 12"⅝ HORIZ.

#4 BARS @ 12"⅝ HORIZ.

#4@12"⅝ 2'-5" LONG

#6 DOWELS @ 1'-0" ⅝ TYP.

#6 DOWEL @ 1'-0" ⅝ TYP.

## SECTION A-A

#4 BARS @ 9"⅝

#3 STIRRUPS @ 12"⅝

2#3 TIES

#4 BARS @ 6"⅝

3#7 BARS

## SECTION H-H

SCALE: ⅜"=1'-0"

#4 (ALT.) BENT BARS 4'-0" LONG

#3 TIES

#3 STIRRUPS @ 12"⅝

3#7 BARS

#3 TIES @ 6"⅝

2#4 BARS

## DET. "e"

SCALE: 1"=1'-0"

#5 BARS 4'-9" LG. INSIDE FACE

#10 BOTH FACES 4'-0" LG.

INV. EL. 2'-17

#5 BOTH FACES TOP 1'-4" LG. BOTTOM AS SHOWN

SEE NOTE "3"

RE: TO DIV. BLS AS REQ'D TO MAINT. CLEARANCE

## PIPE ENTRANCE DET.

SCALE: 1"=1'-0"

## FLOOR PLAN REINF

SCALE: ½"=1'-0"

BL. 20.67

MAINT. 2" COVER

#4 BARS @ 9" CONT.

#5@6" ⅝ CONT.

#5 BARS @ 12"⅝ 2'-6" LG.

11 #5@6" ⅝ BENT BARS

#5 BARS @ 6"⅝ VERT.

#6 BARS @ 6"⅝ VERT.

#6 BARS @ 12"⅝ HORIZ.

#3 STIRRUPS @ 12"⅝ COVER

2#5 BARS 4'-0" LG.

#6 BARS @ 6"⅝ CONT. TYP.

3#7 BARS

SEE LADDER DETAIL

SEE DET. "B"

#6 BARS @ 6"⅝ VERT.

#6 BARS @ 12"⅝ HORIZ.

INV. EL. 21.17

#5 BARS @ 12"⅝

3'-10"

#6 DOWEL @ 1'-0" ⅝ TYP.

#6 DOWELS @ 1'-0" ⅝ TYP.

2'-6" TYP.

5'-10"

17'-2"

## SECTION D-D

(PEPCO FURNISHED)

EL. 34.07

EL. 34.00

EXIST. M. H.

(DIV. F) 6" DIA. STL. SCH 30 ITEM 170 6" SLOPE

PIPE SHOWN FOR CLARITY

#4 BARS @ 12" ⅝ HOR. & VERT. OUTSIDE FACE

14 GA GALV. STEEL

15" DIA. PIPE SEE SECT. J-J

EL. 27.50

EL. 26.25

T.O.P. 24" W, 3" K. TOP CONC. EL. 26.25

ALL CONC. SURFACES SHALL BE THOROUGHLY CLEANED.

(DIV. F) 12" DIA. R.C.P. SCH 60 17-141

EXIST 18" DRAIN

INV. EL. 21.47

EL. 21.88

PROVIDE & INSTALL REMOVABLE, WATERTIGHT SEAL FOR SUMP CONNECTION PIPE AS INDICATED

3" HYDRAULIC CEMENT

SCALE: ½"=1'-0"

NOTES

1. REINFORCING STEEL SHALL HAVE A MIN. 2" COVER EXCEPT WHERE NOTED.
2. IF SOIL INCAPABLE OF SUPPORTING 2000 P.S.F. IS FOUND AT DEPTH OF FOOTINGS AS CALLED FOR BY THE ELEVATIONS ON THE DWG'S. IT SHALL BE REMOVED FROM THE SITE AND REPLACED WITH AN ACCEPTABLE FILL MATERIAL, SEE SPEC.
3. END OF 12" R.C.P. TO BE PREPARED WITH "WELD-CRETE" BONDING AGENT AT WALL CONTACT INTERFACE. CAST R.C.P. INTO WALL. (SEE SPEC. FOR BOND MATERIAL.)
4. FOR ADDITIONAL GENERAL NOTES, CONCRETE, SEE DWG. NO. 7E-GSC-011.
5. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL OBTAIN THE PERMISSION OF THE SUPERINTENDENT BEFORE DIVERTING ANY DRAINAGE FLOW TO AN ALTERNATE OUTFALL.
6. FOR BILL OF MATERIAL SEE GSC-BM-02□ & GSC-BM-027

REFERENCE DWGS.

| | |
|---|---|
| 7E-GSC-002 | SITE & GRADING PLAN |
| 7E-GSC-012 | MISCELLANEOUS PIPING DETAILS |
| (G) 7E-GSC-089 | REMOVABLE STEEL COVER. |

(E) MATERIAL SHOWN FURN. & INSTALLED BY DIV. I CONTR. PRIOR TO SYSTEM IN SERVICE

NOTE C

DIVISION F & G NOTATIONS REFER TO DIVISIONS OF WORK IDENTIFIED IN PHASE I SPECIFICATION.

| | DESCRIPTION | CORR | CHKD | APPD | APPD | APPD | APPD | APPD |
|---|---|---|---|---|---|---|---|---|
| G | REMOVABLE CONC. ROOF SLAB REPLACED WITH REMOVABLE STEEL COVER. JOB C0508 | RLW 8/11/77 | JWW 8/15/77 | V.W. 9/1/77 | 7/8/78 DJO | 3/24/78 | | |
| F | CHANGED OVERFLOW PIPE DESIGN IN SECT. D-D, J-J & PLAN. JOB # C0508 | RWN 12-7 75 | JWW 2/ 7/76 | L.S. 1-27-76 | 7/8/78 DJO | 7/8/78 | 6/4/76 | 6/4/76 |
| E | ADDED DIVISION OF RESPONSIBILITY SECT D-D & J-J. JOB No. C0508 | RLW 8/4 9/27/76 | JWW 9/27/76 | V. 9/27/76 | 7/8/78 DJO | 7/8/78 | 10/1/76 | 10/1/76 |
| D | ENLARGED OPENING, ANCHOR BOLT PLAN & REMOVABLE SLAB FOR PUMP INST. JOB No. C0508 | D.W 1-12 75 | JWW 1/15/76 | DV 1/15/76 | 7/8/78 DJO | 7/8/78 | 1/15/76 | 1/15/76 |
| C | REBAR ARRGT CHGD TO AGREE WITH DESIGN & SHOP DWGS. & CHGD NOTE C & BOWLESS STANDPIPE. JOB C0508 | LH 12-17 75 | JWW 1/15/76 | DV 1/15/76 | 7/8/78 DJO | 7/8/78 | 1/15/76 | 1/15/76 |
| B | CHGD. FLOOR PLAN REINF. TO AGREE WITH SECT'S. D-D & F-F JOB # C0508 | RWN 2-5 75 | JWW 2/7/76 | DV 2/7/76 | 7/8/78 DJO | 7/8/78 | 2/7/76 | 2/7/76 |
| A | CHGD DIA & HGT. OF STAND PIPE & ADDED 6" VENTILATING LINES PET. SUMP PIT & EXIST. M.H. JOB # C0508 | JNB 11-5 75 | JWW 11/14/75 | DV 11/14/75 | 7/8/78 DJO | 7/8/78 | 11/17/75 | 11/17/75 |

REVISIONS

JOB NO. C0508

POTOMAC RIVER GENERATING STATION "C"
FLYASH DEWATERING & WASTEWATER NEUTRALIZATION SYSTEM
PUMP STA No. 1 SUMP PIT DETAILS

POTOMAC ELECTRIC POWER CO.

| CHKD | APPD | APPD | APPD | APPD | APPD | APPD | DR BY DJO | ENGR A.S.M. | CLASS |
|---|---|---|---|---|---|---|---|---|---|
| 10/14/77 | 10/14/77 | 10/14/77 | 10/14/77 | | | | DATE 9-25-75 | SCALE ½"=1'-0" | |
| JWW | | | DJO | | | | | | |

7E-GSC-005 | REV G

Induced Draft Fan Duct Inlet Hoppers

Precipitator Hoppers

Mechanical Dust Collector Soot Hoppers

Induced Draft Fan Duct Inlet Hoppers

Switchgear for Pump Motors

Precipitator Hoppers

Mechanical Dust Collector Soot Hoppers

Existing Phosphate Feed Tank

$CO_2$ Bottles

℄ Chem. Feed & Hyd. Test Pump Existing

℄ Discharge

℄ Distilled Water Transfer Pumps

℄ Suct. & Disch. Chem. Feed & Hyd. Test Pump

I.D. Fan Inlet Duct Hoppers

Ignitor Oil Pumps

Ignition Oil Pumps

Existing Switchgear

Precipitator Hoppers

℄ Suct. & Disch.

Ltg. Cab.

2B

2A

Forced Draft Fans

Mechanical Dust Collector Soot Hoppers

Relocated R.S. Door at Gr. 25.0'

Ramp Dn

Boiler No. 4

Boiler No. 3

Existing Ramp To Be Removed

Up

Boiler No. 2

Door at at Gr 32.50

Gr. 30.75

Dn

Up

℄ Hopper

℄ Motor

℄ Grinder Drive

Ash Hopper

Ejector Pit

Toilet

Jan. Closet

Elevator

℄ Mill No. 4D

℄ Mill No. 4C

℄ Mill No. 4B

℄ Mill No. 4A

℄ Mill No. 3D

℄ Mill No. 3C

℄ Mill No. 3B

℄ Mill No. 3A

℄ Mills

Coal Pulverizers

Top of Platform GR 27'-4 1/2"

R.S. Door at Gr 32.50'

PLAN GR. 22.00'

Notes:
For Machine Location-Cross Section see Dwg. 8757-FM-1
For Machine Location Plan-Turbine Room Basement see Dwg. 8757-FM-3
For Machine Location Plan Turbine Room Floor see Dwg. 8757-FM-2
For Machine Location Plan-Boiler Room Floor see Dwg. 8757-FM-4
For Machine Location -Boiler Room-Misc. Levels see Dwg. 8757-FM-6
For Machine Location Plan- Turbine Room Mezz. Floor see Dwg. 8757-FM-7

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 5 | FIELD CHANGES FOR UNIT #3 PLATFORM ADDED FOR UNIT #4 | 9-23-54 | 9-28-54 | 10-14-54 | 10-18-54 |
| | DATE OF SIGNATURES | 12-16-52 | 12-18-53 | 12-11-53 | 12-11-53 |
| 4 | REVISED TO SHOW NON-METAL CHALUTE | 8-15-53 | 8-21-53 | 8-25-53 | 8-30-53 |
| | DATE OF SIGNATURES | 8-21-53 | 8-21-53 | 8-25-53 | 8-30-53 |
| 3 | FIELD REVISED TO SHOW ENT. ROOMS | 2-4-53 | 2-6-53 | 2-9-53 | 2-9-53 |
| | DATE OF SIGNATURES | 1-13-53 | 1-9-53 | 1-9-53 | 1-9-53 |
| 2 | ISSUED FOR UNIT #4 COIL SPACE ALLOCATED & REVISED SLOPES | 9-18-52 | 9-19-52 | 9-19-52 | 9-19-52 |
| | DATE OF SIGNATURES | 9-4-52 | 9-15-52 | 9-19-52 | 9-19-52 |
| 1 | GENERAL REVISION | 8-11-52 | 8-12-52 | 8-13-52 | 8-13-52 |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# MACHINE LOCATION PLAN - BOILER ROOM BASEMENT

GENERATING STATION - C - POTOMAC RIVER - UNIT No. 3&4

POTOMAC ELECTRIC POWER COMPANY

WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1/8" - 1 FT

JAN. 21, 1952

| | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|
| | 2-21-52 | 2-22-52 | 2-29-52 | 2-29-52 |
| | G.T.S. | HPC | JWD | JWW |

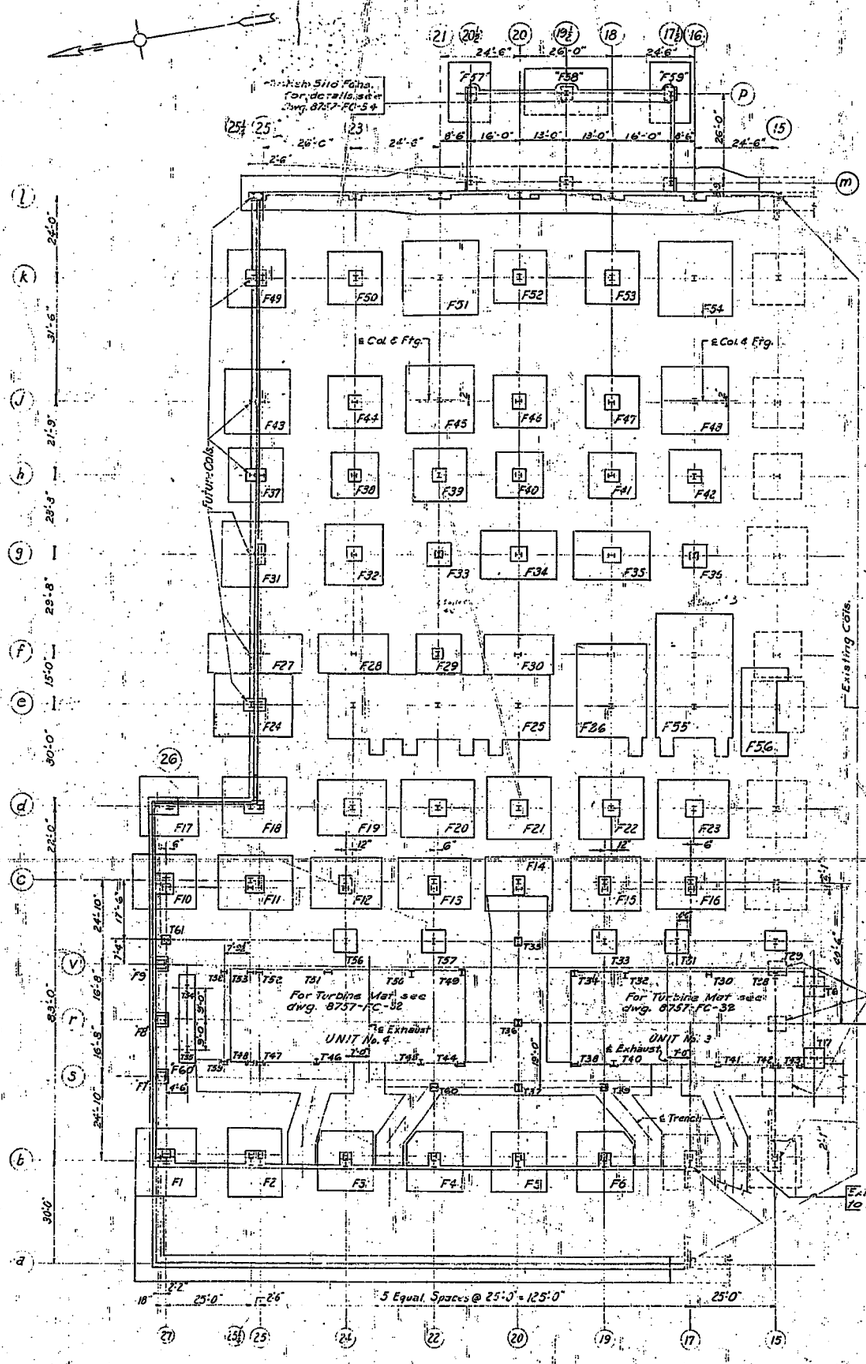
8757-FM-5

7868

Chkd. ADM 9-23-54

Designed By C.A. Benson

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:33:16 PM, JOConnor




## FOUNDATIONS DETAIL SCHEDULE

| Dwg. No. | Foundations / Walls |
|---|---|
| 8757-FC-8 | "F11", "F12", "F14", "F15", "F16", "F19", "F21", "F22", "F23". |
| 8757-FC-9 | "F10", "F12", "F17", "F18", "F20". |
| 8757-FC-10 | "F1" - "F9" incl. "F60" |
| 8757-FC-11 | "F37", "F38", "F40", "F41", "F43", "F45", "F48" - "F54" incl. |
| 8757-FC-12 | "F27", "F28" incl., "F30", "F44", "F46", "F47". |
| 8757-FC-13 | "F25", "F39", "F42", "F56" |
| 8757-FC-33 | "F24", "F26", "F55", "F34", "F35" |
| 8757-FC-24 / 8757-FC-25 | (B) line wall |
| 8757-FC-26 / 8757-FC-27 | (25) & (P), Temp. end walls |
| 8757-FC-28 / 8757-FC-29 | (B) line wall |
| 8757-FC-52 | "T25", "T31", "T33", "T56", "T57" & "T61" Dets. of "T6" & "T17" shown also |
| 8757-RC-38 | "T35", "T36", "T37", "T39", "T59" & "T60" |
| 8757-FC-49 / 8757-FC-50 | (1) line wall |
| 8757-FC-44 | "T58" |

Notes:

Ult. Comp. Strength of Conc. @ 28 days to be 2500 lbs. per sq. in.

Reinf. to be deformed bars lapped 40 Dia. where Cont.

Dimns. to Reinf. are Clear Distances from Face of Conc.

For Location of Cols. & Dets. of Col. Anchor Bolts & Base Pls. see Steel Dwgs.

Design soil bearing value 6000 lbs/sq.ft. If it appears necessary to carry footings below grade shown to obtain this value, the engineers shall be consulted.

For Floor Drainage Lines see dwg. 8757-FB-12, & FB-13.

For Duct Lines see Electrical Dwgs: 8757-FE-35 & 8757-FE-41.

APPROVED _____
CERTIFIED PROFESSIONAL ENGINEER, NO. 928
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | DESIGN | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES 12-13-51 | 12-19-51 | 12-31-51 | | |
| | DWG. COMPLETED | 12-19-51 | 12-19-51 | 1-2-52 | |
| 1 | DATE OF SIGNATURES 8-4-52 | 8-5-52 | 8-8-52 | 8-8-52 | |
| | 1" TEL. HOLES & FOOTING REVISED. PER 1" TEL CO. | 8-4-52 | 8-4-52 | 8-4-52 | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# FOUNDATION KEY PLAN

GENERATING STATION "C" - POTOMAC RIVER - UNIT NO. 3
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

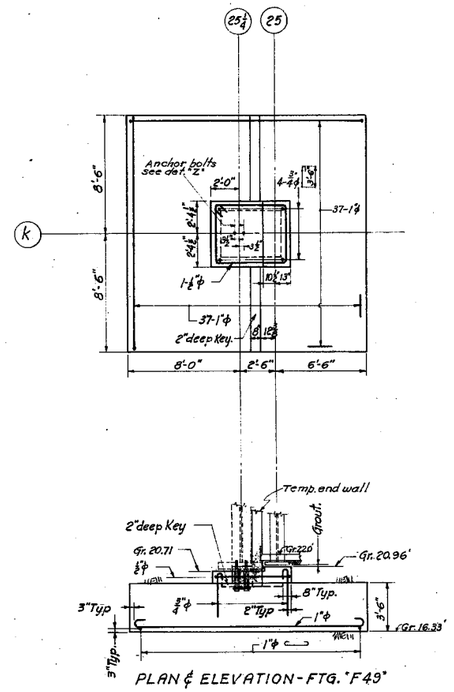
SCALE 1" - 1 FT
JUNE 4, 1952

| CHKD. | DSGN. | COR. | APPR. |
|---|---|---|---|
| [illegible] | 7-31-52 | 7-31-52 | 7-31-52 |
| [illegible] | [illegible] | 8-4-52 | [illegible] |

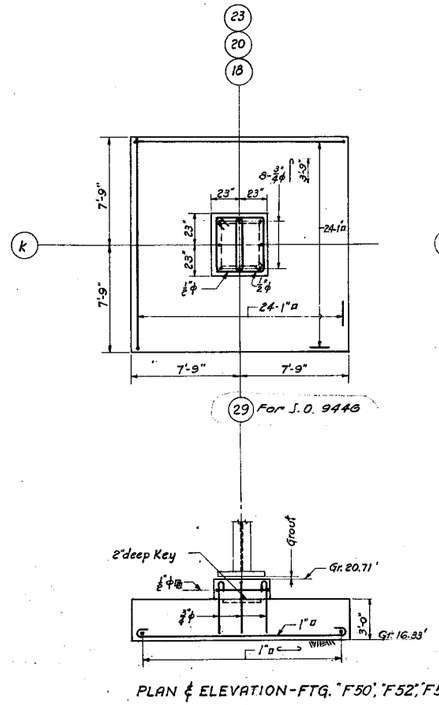
8757-FC-7

Designed by G.W.K. & E.F.O. Drawn by J. K. Jr. & J.C.
Des. Chkd by J.K.I.C.W. Chkd by K.P. Collins & J.K.

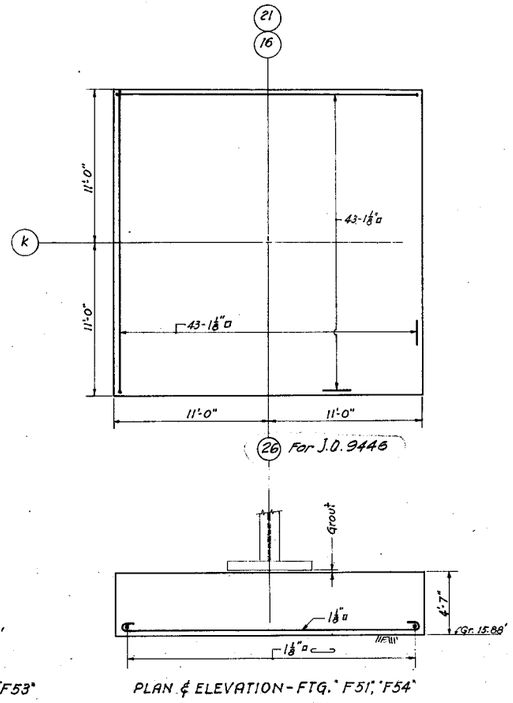
P:\cadd\1108 nrg pot rlv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:30:27 PM, JOConnor



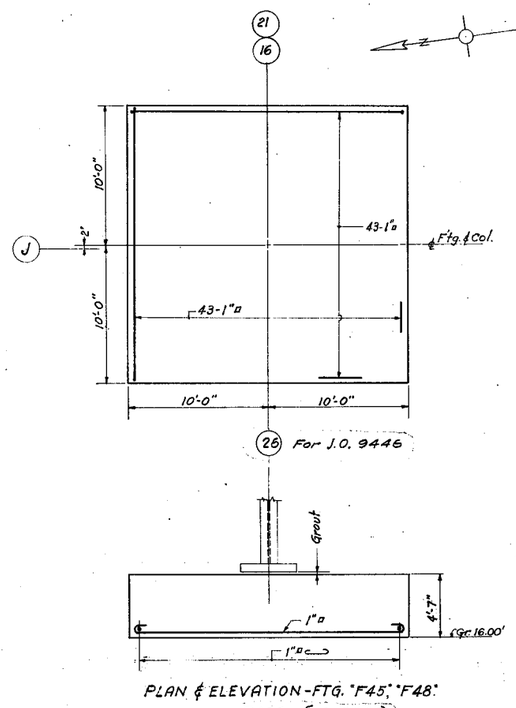

PLAN & ELEVATION-FTG. "F49"




PLAN & ELEVATION-FTG. "F50", "F52", "F53"



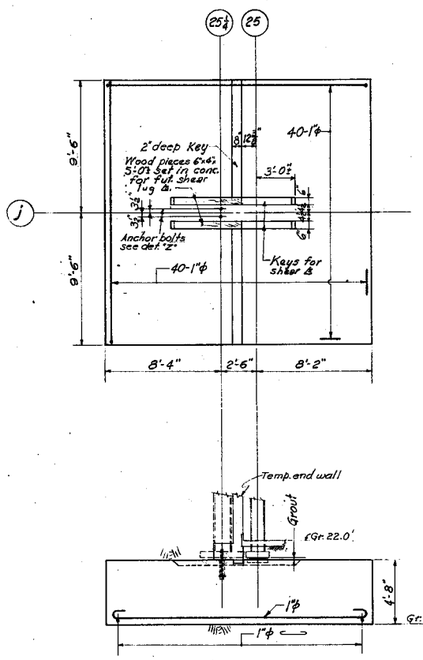

PLAN & ELEVATION-FTG. "F51", "F54"



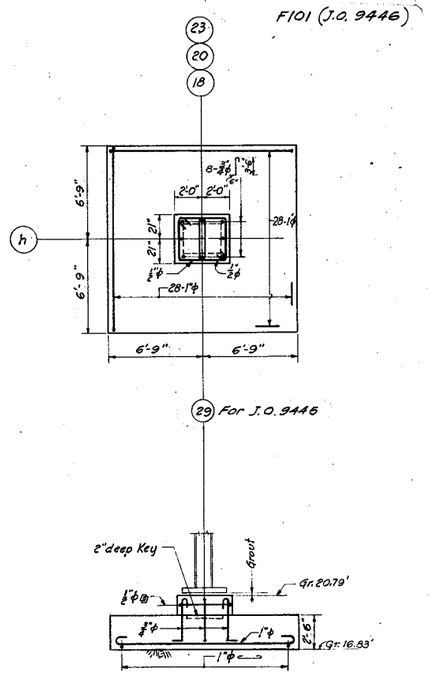

PLAN & ELEVATION-FTG. "F45", "F48".

F105 (J.O. 9446)

F101 (J.O. 9446)

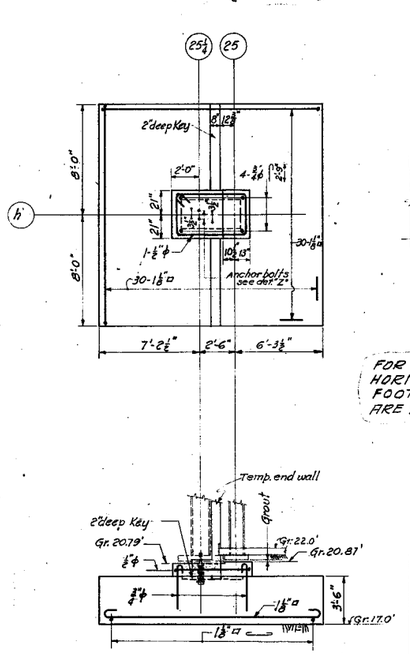



PLAN & ELEVATION-FTG. "F43"

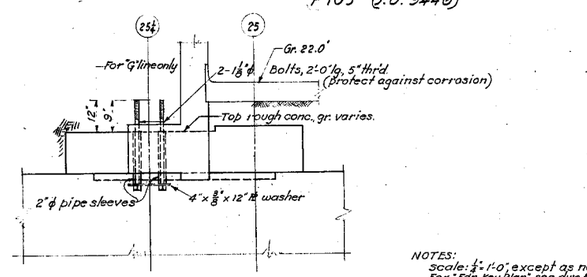



PLAN & ELEVATION-FTG. "F38", "F40", "F41"

F107 (J.O. 9446)




PLAN & ELEVATION-FTG. "F37"




DET. "Z"

Scale: ¾" = 1'-0"

for Location of Anchor Bolts see "PLAN & ELEV."

NOTES:
Scale: ¼" = 1'-0" except as noted.
For "Plan Key Plan" see dwg. 8757-FC-7 & 9446-FC-1
For dets. of wall on "25" line see 8757-FC-28
For: slab at Gr. 22.0' see.
Design soil bearing value 6000 #/sq. ft. If it appears necessary to carry footings below grade shown to obtain this value, the engrs. shall be consulted.
Ult. compr. strength of conc. at 28 days, 2500 # per sq. in.
Reinf. to be deformed bars lapped 40 dia. where continuous.
Dim's. to reinf. are clear distances from face of conc.
For loc. of cols. & dets. of col. anchor bolts & base plates see steel dwgs.

FOR J.O. 9446 OMIT HOOKS ON HORIZONTAL REINFORCING IN MATS. FOOTING NUMBERS 100 AND ABOVE ARE FOR J. O. 9446.

APPROVED Ernest A. Dreibelbis
CERTIFIED PROFESSIONAL ENGINEER, NO. 990
COMMONWEALTH OF VIRGINIA

| NO: | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | DATE OF SIGNATURES | | | | |
| 4 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 3 | | | | | |
| | DATE OF SIGNATURES | | | | |
| 2 | | | | | |
| | DATE OF SIGNATURES | 9-9-55 | 9-9-55 | 9-11-55 | 9-11-55 |
| 1 | ISSUED FOR J.O. 9446 FOR UNITS #5 | KK | DWB | E.I. | H.N.C. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# FOUNDATION DETAILS - BOILER ROOM - SHEET 1

GENERATING STATION - C - POTOMAC RIVER - UNIT NO. 3
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JUNE 4, 1952

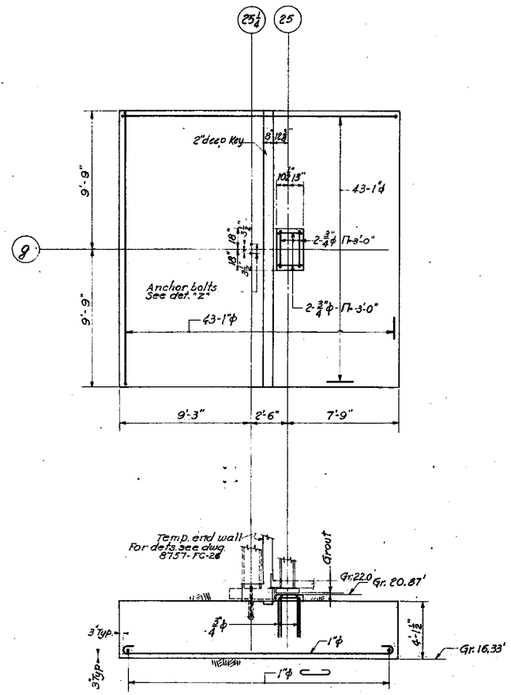
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 8-4-55 | 8-4-55 | 8-11-55 | 8-11-55 |
| 29 | DWB | E.I. | CGD |

8757-FC-11

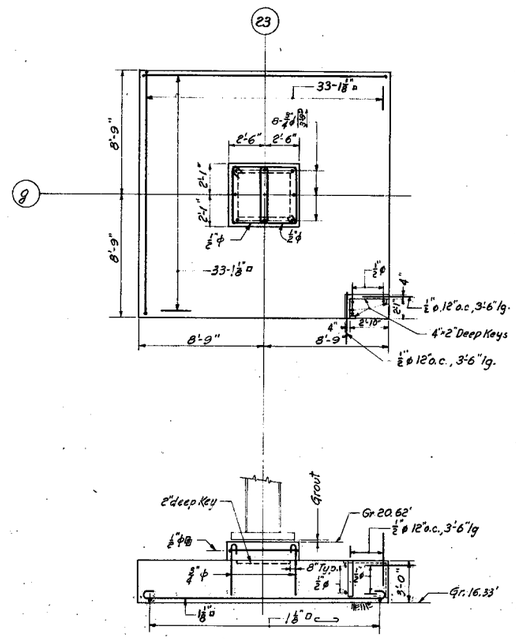
S. C. 50057

Designed by J. Kustanski
Drawn by A. Treinys, J.S.K.J.
Des. Chk'd by C. Vale
Chk'd. by H.C. Nason, Jr.

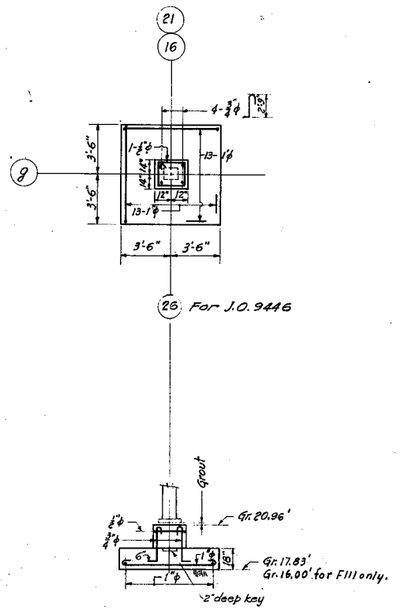
P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:31:10 PM, JOConnor



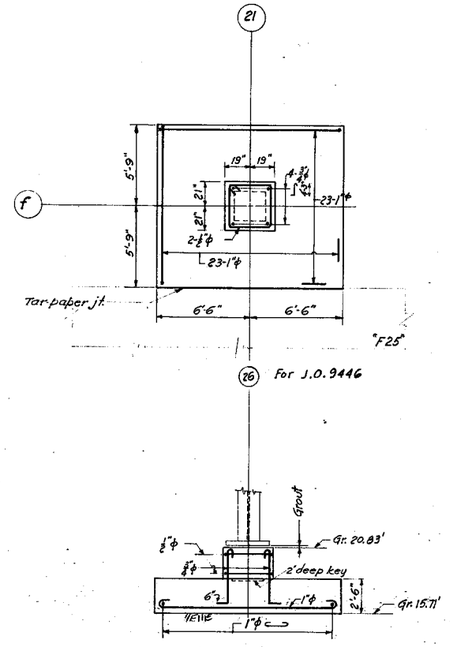

PLAN & ELEVATION - FTG. "F31"




PLAN & ELEVATION - FTG. "F32"

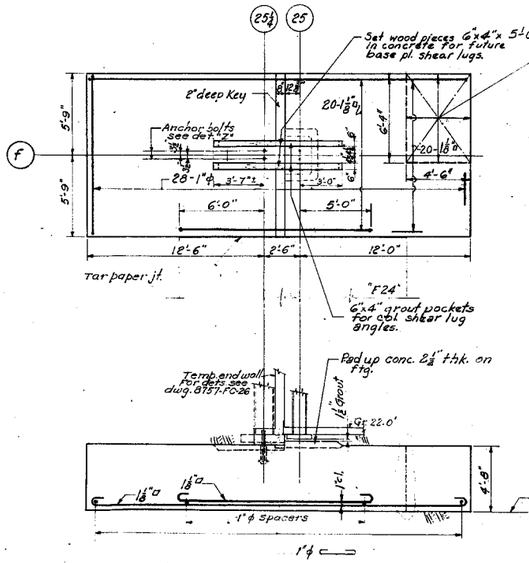



PLAN & ELEVATION-FTG. "F33", "F36"

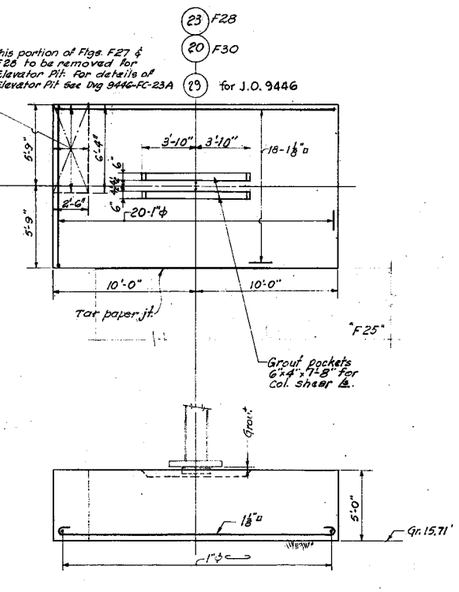



PLAN & ELEVATION-FTG. "F29"

F114 (J.O. 9446)

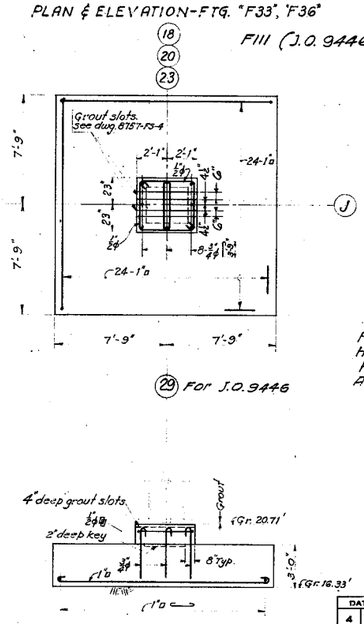



PLAN & ELEVATION-FTG. "F27"




PLAN & ELEVATION-FTG. "F28", "F30"

F113 (J.O. 9446)




F111 (J.O. 9446)

FOR J.O. 9446 OMIT HOOKS ON HORIZONTAL REINFORCING IN MATS. FOOTING NUMBERS 100 AND ABOVE ARE FOR J.O. 9446




PLAN & ELEVATION-FTG "F44", "F46", "F47"

F104 (J.O. 9446)

NOTES:
Scale: ¼"=1'-0"
For "Fdn. Key Plan" see dwg. 8757-FC-7 & 9446-FC-4A
For Det. "2" See dwg. 8757-FC-11
Design soil bearing value 6000 #/sq. ft. If it appears necessary to carry footings below Gr. shown to obtain this value, the engineers shall be consulted.
Ult. compr. strength of conc. @ 28 days, 2500 #/sq. in.
Reinf. to be deformed bars lapped 40 dia. where cont. dims. to reinf. are clear distances from face of conc.
For loc. of sols & dets. of col. anchor bolts & base plates see steel dwgs.

APPROVED Ernest A. Dreibelbis
CERTIFIED PROFESSIONAL ENGINEER, NO. 888
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 1 | ISSUED FOR J.O. 9446 FOR UNIT No. 5 | | | | |
| 2 | #708 FDT & F28 REVISED | | | | |
| 3 | | | | | |
| 4 | | | | | |

DATE OF SIGNATURES: 9-2-55 | 9-7-55 | 9-12-55 | 9-14-55
DATE OF SIGNATURES: 12-12-55 | 12-14-55 | 12-19-55
DATE OF SIGNATURES:

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# FOUNDATION DETAILS - BOILER ROOM - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNIT NO. 3
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JUNE 4, 1952

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 8-4-55 | 8-5-55 | 8-11-55 | 8-11-55 |

8757-FC-12

Designed by J. kustowski
Dec. Ch'd by C. Yale
Drawn by A. Treinys & S.K.J.
Ch'd by W.C. Nason-J.K.

RETURN TO: P. GORDON 11/8/5

Engineer | Estro | Root | Budds | Gaskins | Sch | Grade | Root | Bu-Mac | Yokley | Precast | Brooks | Hallock

A.C. 50058

P:\cadd\1108 nrg pot rivrecd\bldg tifs\tiffs interior.dwg, Model, 8/5/2014 1:31:50 PM, JOConnor

SCANNED
Chalk Point
06225

ISSUED | EMPLOY INITIAL | PERIOD ENDING

FOR DETS. OF ASH & SILO FDNS, SEE DWGS. 8757-FC-54, 55

26'-0" | 24'-6" | 8'-6" | 16'-0" | 13'-0" | 13'-0" | 16'-0" | 8'-6" | 24'-6" | 26'-0"

24'-10" | 21'-9" | 23'-3" | 20'-6" | 15'-0"

510' | 515' | 514'

S1 | S2 | S9

Sump | Ramp For Sump & Tanks 8757-FC-4

F.D.

BOILER #5 | BOILER #3

Ash Hopper Pit | Ash Hopper Pit

6 Hoppers

See Detached Plan "B" on Dwg. 8757-FC-42

See Detached Plan "A" on Dwg. 8757-FC-43

Elevator Pit Unit No.5 See Dwg 8146-FC-25A

Elevator Pit for det's see Dwg 8757-FC-41

Elevator Pit See Detached plan Dwg. 8757-FC-41

Break back Footings See Dwg 8757-FC-42

6 Mill 4D | 6 Mill 4C | 6 Mill 4B | 6 Mill 4A | 6 Mill 3D | 6 Mill 3C | 6 Mill 3B | 6 Mill 3A

For Details see Dwg. 8757-FC-13

6 Pulverizers For det's see Dwg. 8757-FC-39

6 Motors

FOR CONTINUATION SEE DWG. 8757-FC-44

For stub location see 8757-FC-42

See Detail "B" on dwg. 8757-FC-42

See Detail "B"

See Detail "C" on dwg. 8757-FC-42

S Support

S.W. Pipe

C.W. Pipe

Ignitor Oil Pumps

Existg. Ignitor Oil Pumps

Existg. Chem. Pump

Chem. Feed & Hydr. Test Pump

Existg Support

S. Suct. & Disch.

For details of Pump Fdn see dwg. 8757-FC-41

Typ. slab reinf. S#9 12" o.c. top both ways

NOTES:

Ult. compr. strength of conc @ 28 days 2500 #/□" Reinf. to be deformed bars (passed 4) clear concrete cover for col. anchor bolts & base plates see dwg. 8757-FB-4

For floor drainage lines see dwg. 8757-FB-12.

For Elec. Conduit See dwgs 8757-FE-3a, 76, 79.

For Machine Location Plan see dwg. 8757-FM-5.

For Fdn. Plan I.D. 7901, see dwg. VW 5643.

Floor to pitch to Floor Drains Top of F.D.'s @ el. 21.79'.

For Arch. Plan see dwg. 8757-FA-7.

For Circ. Water Lines, see dwg. 8757-FP-97.

For existing Boiler Rm. Fl. see I.D. 7901, dwg. VFX 3113.

For existg. Boiler Rm. Flrs see I.D. 7901, dwg. VW 5643.

For detail of cove base, see dwg. 8757-FA-20.

For details of temp. end wall see dwg. 8757-FC-26.

For details "L" line wall see dwgs. 8757-FC-49, 50.

For Fdn. Key Plan see dwg. 8757-FC-7.

Contr. to provide base & similar to Ignitor Oil Pump Fdn. as shown on Dwg. 8757-FC-41 for all small equipment not shown.

APPROVED Ernest A. Dechristofaro
CERTIFIED PROFESSIONAL ENGINEER, NO. 988
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| 3 | ELEVATION PIT FOR UNIT NO. 5 ADDED | [illegible] | [illegible] | E.L. | [illegible] |
| 2 | PIPES REMOVED, PLATES ADDED | [illegible] | [illegible] | E.L. | [illegible] |
| 1 | PLATES & FRONT REMOVED FOR POWER PITS & CON. FOR REPORTS ISSUED | [illegible] | [illegible] | E.L. | [illegible] |

DATE OF SIGNATURES 4: | DATE OF SIGNATURES 3: 2-26-53 2-27-53 3-4-53 3-4-53 | DATE OF SIGNATURES 2: 2-11-53 2-11-53 2-11-53 2-11-53 | DATE OF SIGNATURES 1: 1-30-53 2-10-53 2-1-53 2-1-53

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# PLAN - FLOOR SLAB EL. 22.0 - BOILER ROOM

GENERATING STATION - C - POTOMAC RIVER - UNIT NO. 3
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE: 1" = 1' FT
SEPT. 2, 1952

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 2-18-53 | 2-19-53 | 2-21-53 | E.L.-C.L. |
| [illegible] | [illegible] | E.L. | [illegible] |

8757-FC-40

Designed by J. DeBraas | Drawn by J.K. Duvall | Det. Chkd by F. Fiske | Chkd by W.S. Wagner

RETURN TO PLAN ROOM

P:\cadd\1108 nrg pot rlv\recd\bldg tifs\tiffs interior.dwg, Model, 8/5/2014 1:32:29 PM, JOConnor

Cir. Water Line
Phosphate Mod. Tank
& Suct. & Disch.
Dissolving Tank
& Chem. Feed & Hyd. Test Pump
CO² Bottles for Ignition Oil Tk. protect'n.
& Disch.
Dist. Water Transf. Pumps.
I.D. Fan Inlet Duct Hopper
C.W. Line
Hot Blow Off Tank Gr. 36.00'
Pump Suction Tank.
& Disch.
Aerated Water Pumps.
Ignition Oil Pumps
No. 1
No. 2
No. 3
No. 4
& Suct. & Disch.
Lty. Cab.
Precipitator Hoppers
Caustic Pumps
Acid Pumps
& Caustic Tank
& Acid Tank
Platform-Gr. 28.00'
Precipitator & Suct. & Disch. Hoppers
Back Wash Trench
Elevator "B"
Lifter Pumps
Grating
Tunnel to C.W. Pump House
Out of Stock Storage Area
Instruments
Electrical
Filter Tanks
Boiler Shop
& Hot Water Tank
Asbestos Curtain
Tool Room
Welding Shop
Bench
Machine Shop
Monorail
Lathe
Switch
Forced Draft Fans
A.F.D. Fans & Air Heater
No. 2B
No. 2A
No. 1B
No. 1A
Mech. Dust Collector Soot Hoppers
Curb
& Boiler No. 2
& Boiler No. 1
Coal Pipes
& Ash Hopper
& Furnace
Door Sill at Gr. 32.50'
Temporary End - To be removed
Elevator "C"
No. 2D
No. 2C
No. 1D
No. 1C
& Coal Pulverizers
Asbestos Curtain
Bench
Monorail
Machine Shop
Lathe
Switch
Elevator "A"
Back Wash Trench
Lty. Cab.
Grating
Filter Pumps
Bench
Sump Pump
Bench

(d) SUPERSEDES DWG. NO. VW 2166

PLAN GRADE 22.0'

Notes:

| | | |
|---|---|---|
| Machine Location | Cross Section | RW 2157 |
| Machine Location Plan - Turbine Room Basement | | FW 5123 |
| Machine Location Plan - Turbine Room Floor | | FW 5122 |
| Machine Location Plan - Boiler Room Floor | | FW 5119 |
| Machine Location Plan - Boiler Room Bunker Level | | FW 5120 |

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 6 | ISSUED FOR J.O. 8757 | JHR | HRD | WWC | WWC |
| 5 | | KMR | HRD | JHR | WWC |
| 4 | CORR. PER TRACE | KMR | HRD | JHR | WWC |
| 3 | | KMR | HRD | JHR | WWC |
| 2 | | KMR | HRD | JHR | WWC |
| 1 | GENERAL REVISION | KMR | HRD | JHR | WWC |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# MACHINE LOCATION PLAN - BOILER ROOM BASEMENT

MECHANICAL EQUIPMENT

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY, INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE ¼" - 1 FT
SEPT. 15, 1947
J.O. NO. 7901

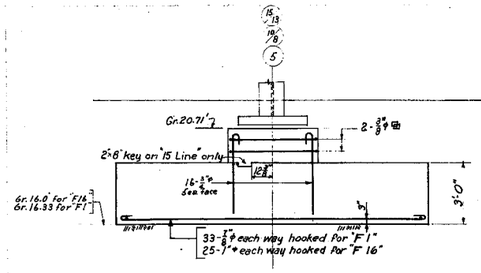
| | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|
| | 9-26-47 | 9-26-47 | 9-29-47 | 9-30-47 |
| | KMR | HRD | JHR | WWC |

F W 5121

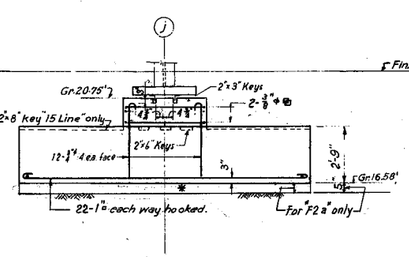
RC 5606
R.C. 57006 for J.O. 8757

Traced by R.T. Powell
Drawn by R.H. Tuerk

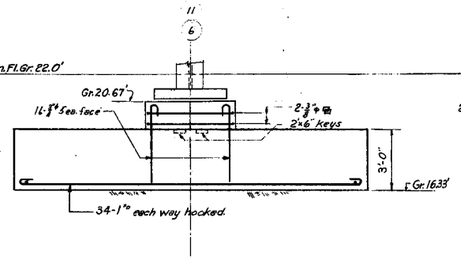
P:\cadd\11108 nrg pot rlv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:28:27 PM, JOConnor



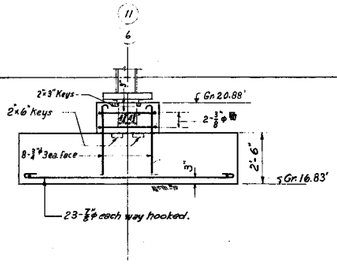

ELEVATION "F1" (5 Req'd)
ELEV. "F16" Similar (1 Req'd)



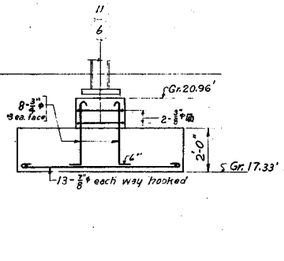

ELEV. "F2" (4 Req'd)
ELEV. "F2a" (1 Req'd)



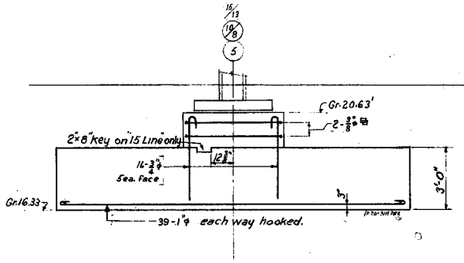

ELEV. "F3"
(2 Req'd.)



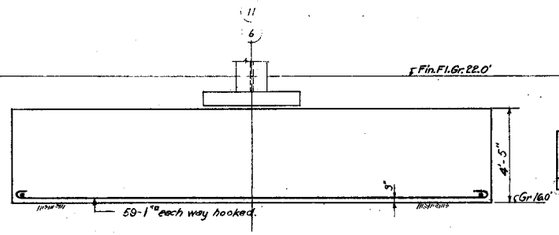

ELEV. "F5"
(2 Req'd.)



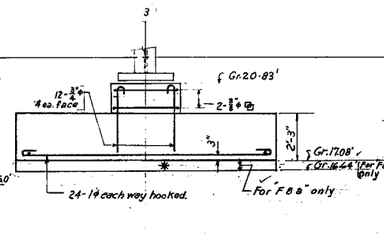

ELEV. "F7"
(2 Req'd)



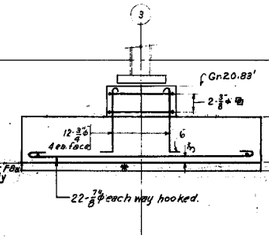

ELEV. "F6"
(5 Req'd)



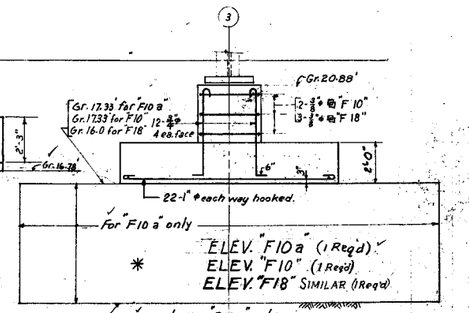

ELEV. "F4"
(2 Req'd.)



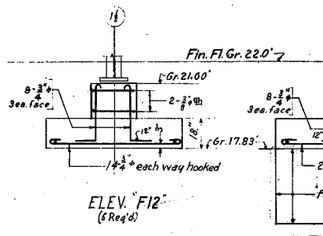

ELEV. "F8" (1 Req'd)
ELEV. "F8a" (1 Req'd) ✓



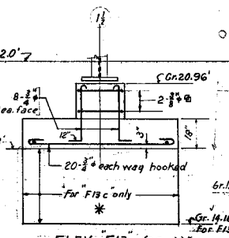

ELEV. "F9"
(1 Req'd.)



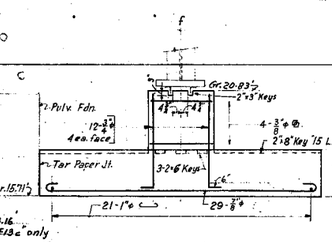

ELEV. "F10a" (1 Req'd) ✓
* ELEV. "F10" (1 Req'd)
ELEV. "F18" SIMILAR (1 Req'd)



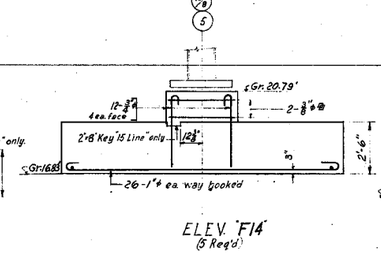

ELEV. "F12"
(6 Req'd)



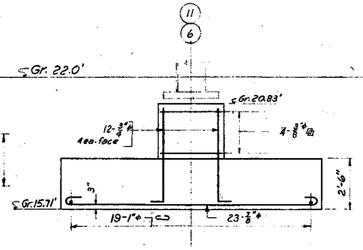

ELEV. "F13" (2 Req'd)
ELEV. "F13c" (1 Req'd)



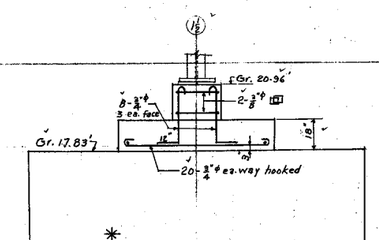

ELEV. "F11"
(3 Req'd)



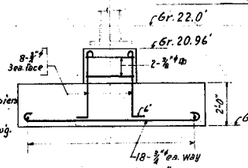

ELEV. "F14"
(5 Req'd)



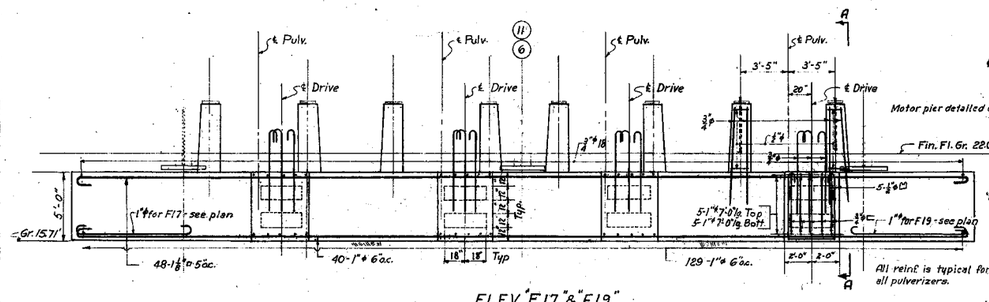

ELEV. "F15"
(2 Req'd)



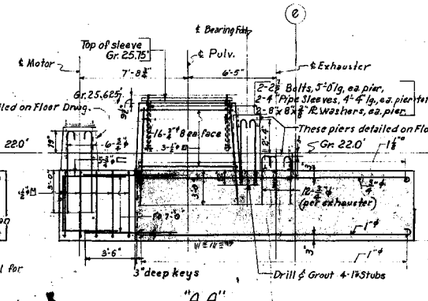

ELEV. "F13a" 1 Req'd ✓
ELEV. "F13b" 1 Req'd ✓




ELEV. "F20"
(1 Req'd)




ELEV. "F17" & "F19"
Scale ¼"=1'0"




"A A"
Scale: ¼"=1'-0"

* Concrete backfill by field, replacing unsatisfactory soil.

APPROVED: Ernest A. Dreyfoos
CERTIFIED PROFESSIONAL ENGINEER NO. 986
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| | DATE OF SIGNATURES | 7-1-49 | 7-1-49 | 7-14-49 | 7-15-49 |
| 3 | FIELD CHANGES ADDED. | JC | DWB | NMC | WSK |
| | DATE OF SIGNATURES | 4-1-48 | 4-1-48 | 4-2-48 | 4-5-48 |
| 2 | BEARING & MOTOR FDNS. WITH STUBS ADDED. | JC | DWB | NMC | WSK |
| | DATE OF SIGNATURES | 3-5-48 | 3-5-48 | 3-5-48 | 3-9-48 |
| 1 | INCLUDED EXTRA FOOTINGS F17 & F19 REVISED SECT. AS LINE REMOVED | JC | DWB | NMC | WSK |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# FOUNDATION DETAILS - BOILER ROOM

SUBSTRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY, INC
ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |
| JC | DWB | NMC | WSK |

SCALE GIVEN
OCT. 9, 1947
J. O. NO. 7901

V W 5642

RC.107875

Designed by J.C. Albrecht & H.S. Prescott
Design chkd by L.M. Reingers, Jr. Wes
Drawn by H.H. Cohen
Drawing chkd by J.C. Albrecht

Engineer Extra Prints
Revised
Issued

P:\cadd\11108 nrg pot rlv\recd\bldg tifs\tiffs interior.dwg, Model, 8/5/2014 1:29:08 PM, JOConnor

Notes:
Scale: 1"=1'-0".
Ultimate Comp. Strength of Conc. at 28 days to be 2500 lbs per sq. in.
F to. designed for an allowable soil pressure of 6000 lbs/sq. Ft. for L.L. & D.L. or 8000 lbs/sq. Ft. with wind.
For Elevation of Footing see VW 5642.
For Col. Anchor Bolts, see VW 4887.

Key Plan
Scale: 1"=60'-0"

APPROVED: Ernest A. Doubleday
CERTIFIED PROFESSIONAL ENGINEER NO. 988
COMMONWEALTH OF VIRGINIA

| DATE OF SIGNATURES | | | | |
|---|---|---|---|---|
| 4 | | | | |
| DATE OF SIGNATURES | 7-1-47 | 7-1-47 | 7-1-47 | 10-1-47 |
| 3 | WELD CHANGES ADDED. DIM. CHANGES. | JC | DLB | MMF | VWS |
| DATE OF SIGNATURES | 11-1-47 | 11-1-47 | 11-10-47 | 11-14-47 |
| 2 | SUMPS WERE FOOTINGS ADDED | JC | DLB | MMF | VWS |
| DATE OF SIGNATURES | 3-3-47 | 3-3-47 | 3-3-47 | 3-3-47 |
| 1 | REVISION TO NOTE F19 & F15 RELEASED | JC | DLB | MMF | VWS |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# FOUNDATION PLAN & DETAILS - BOILER ROOM
## SUBSTRUCTURE
GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2
BRADDOCK LIGHT & POWER COMPANY, INC
ALEXANDRIA, VIRGINIA
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
OCT. 9, 1947
J. O. NO. 7961

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 10-11-47 | 10-21-47 | 10-31-47 | 11-3-47 |
| JC | DLB | MMF | VWS |

V W 5643

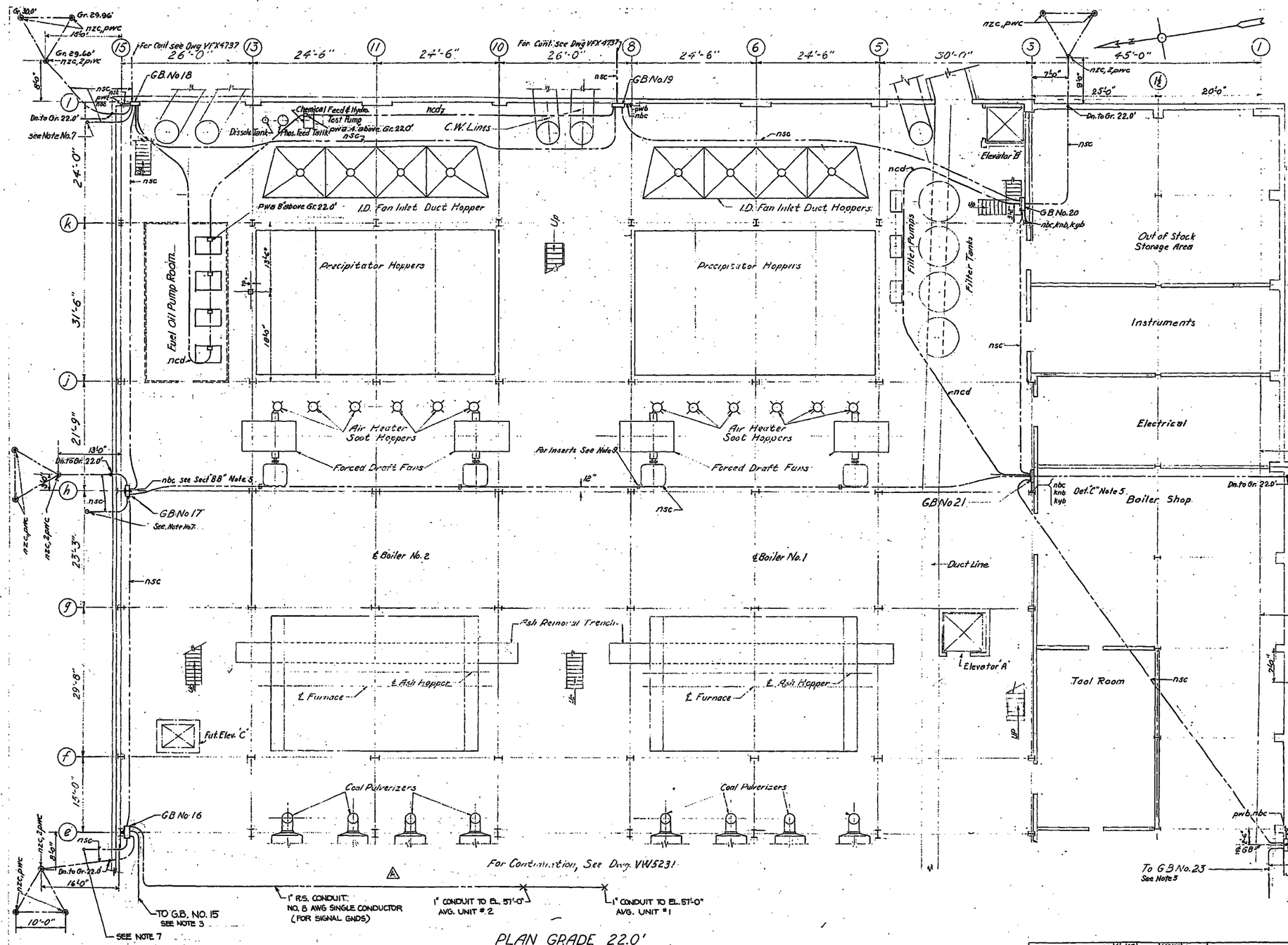
RC 107273

Drawn By: H.H. Cohen
Dwg. Ch'kd By: J.C. Albrecht

Designed By: Allowell & Drossell
Design Ch'kd By: Manager of Engr.

Engineers' Ltr'g Stencils
Ellis Blueprint Co.

P:\cadd\11108 nng pot rlv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:29:51 PM, JOConnor




PLAN GRADE 22.0'

## BILL OF MATERIAL

| Item | Description | Quantity | Remarks |
|---|---|---|---|
| NSC | 1000 MCM Stranded Copper Cable, 3 WP Braid | (1200 ft) | |
| nzc | Copperweld Ground Rod 1" Dia. 30 ft. long | 18 | Locke 8695 |
| pwc | Ground Connector for 1-1000 MCM Cable to r. dia. rod | 24 | |
| pwb | Grounding Insert for 500 MCM Cable | 3 | |
| nbc | 2" x 1/4 Hot Copper Bar | 15 ft | |
| ncd | 4/0 Str. Copper Cable Bare | 300 ft | |
| knb | 1/2" x 1 1/2" Hex. Head bolt with nut | 10 | |
| Kyb | 1/2" Lock washer | 10 | |
| nsb | 500 MCM Str. Copper Cable 3 WP. Br. | 20 ft. | |

NOTES:

1. Exact location of ground rods & ground cable to be determined in field.
2. Top of ground rods & cable to be not less than 24" below ground grade & buried in permanently moist earth.
3. For Grounding Plan - Sh. 2, see Dwg. VW5231.
4. For Grounding Plan - Sh. 1, see Dwg. VW5233.
5. GB21, GB22, etc., refer to Grounding Details, Sh. 1 & 2 Dwgs VW5644 & VW5645
6. All bolts, nuts & washers to be Everdur or equivalent.
7. Where ground cable stops at end of present construction, allow 4 ft. of cable accessible for future extension.
8. All joints to be brazed, wrapped in burlap & painted with asphaltum.
9. For Conduit Plans Boiler Room Gr. 22.0' see Dwgs. VW6258
10. For Conduit Plans & Details off Bay See Dwg. VX969.

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 1 | GROUND BOXES RELOCATED BILL OF MATERIAL CHGD. MINOR CHANGES | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | FIELD & MINOR CHANGES | [illegible] | [illegible] | [illegible] | [illegible] |
| 3 | FIELD CHANGES | [illegible] | [illegible] | [illegible] | [illegible] |
| 4 | REVISED PER ENGR. COMMENTS - JOB C8642 | [illegible] | C.B.I. | JMK | [illegible] |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# GROUNDING PLAN - SH. 3

ELECTRICAL EQUIPMENT

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY, INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE 1" = 1 FT.
SEPT. 20, 1947
J.O. NO. 7901

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7/26/47 | 7/26/47 | 10-7-47 | 10-7-47 |

V W 5232

RC108069

P:\cadd\1108 nrg pot rlv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:38:58 PM, JOConnor

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:39:41 PM, JOConnor

## BILL OF MATERIAL

| Item | Description | Quan. | Remarks |
|---|---|---|---|
| nbc | ¼"×2" Flat Copper Bar | 60 ft. | |
| nce | 500 MCM., str., Copper Cable, Bare | 265 ft. | |
| ncf | 1000 MCM., str., Copper Cable, Bare | 1650 ft. | |
| nzc | Copperweld Ground Rod, 1" Dia., 30'-0" long | 9 | |
| pwb | Grounding Insert for 500 M.C.M. Cable | 10 | |

NOTES:

1. Exact location of Ground Rods & Ground Cables to be determined in field, except as noted.
2. Top of ground rods & cable to be not less than 24" below ground grade and buried in permanently moist earth.
3. Field to move existing ground rods & ground cables that interfere with new construction or abandon and replace in new location.
4. All bolts, nuts and washers to be Everdur or equivalent.
5. Where ground cable stops at end of present construction allow 4 ft. of cable accessible for future extension.
6. For Grounding Plan - Station - Sheet 1, see Dwg. 8757-FE-27.
7. For Grounding Plans & Details - Misc. Bldgs., see Dwg. 8757-FE-191.
8. For Ground Box Details, see Dwg. 8757-FE-29.
9. For Secondary grounding & location of inserts see Conduit Plan-Gr. 22.0' Shs. 3 & 6 Dwgs. 8757-FE-76 & 79.
10. For Existing grounding, see Dwgs. - Grounding Plan - Sh. 3 VW5232 & Ground Box Details, Dwg's VW5644 & VW5645.
11. All concealed cable connections to be made by the Cadweld Process, unless otherwise noted, and given a coat of Asphalt paint.
12. All steel surfaces to be cleaned thoroughly before ground connections are made, to insure good contact.
13. All grounding to clear Mechanical Piping & Equipment.

SCANNED 67747

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| | DATE OF SIGNATURES | 4/6/87 | | 4/3/87 | 6-2-87 |
| A | REVISED PER ENGR. COMMENTS - JOB C8612 | | CBI | JMK | |
| | DATE OF SIGNATURES | 10-6-54 | 10-6-54 | 10-6-54 | 10-6-54 |
| 3 | FIELD CHANGES | | | | |
| | DATE OF SIGNATURES | 2-19-53 | 2-19-53 | 3-6-53 | 3-6-53 |
| 2 | REMOVED GRNDS. FROM G.B. 31 | | | | |
| | DATE OF SIGNATURES | 11-21-52 | 11-21-52 | 11-24-52 | 11-24-52 |
| 1 | ADD FUT. EXT.; CHGD. G.B. RELOCATED G.B. 34, RODS | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# GROUNDING SYSTEM - PLAN - STATION - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNIT NO. 3
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE ⅛" - 1 FT
JUNE 2, 1952

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 6-19-52 | 6-16-52 | 6-20-52 | 6-20-52 |

8757-FE-28

R.C. 49272

Checked by: HWZ — Checked by: I. Fossum — Checked by: I. Fossum

Designed by: Wm. K. Lyons — Drawn by: R.C. Carles, D. — Des. Chk'd by: Wm. K. Lyons — Chk'd by: Wm. K. Lyons

# FLOOR DRAINAGE LINES - BOILER ROOM

PIPING SYSTEM

GENERATING STA C - ALEXANDRIA - UNITS NO 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APR 6, 1948
J O NO 7901

VFX 2168

THIS DWG SUPERSEDES DWG. VW6874

PLAN GERDE 22'0'
Scale 1/8"-1'-0"

Ignition Oil Pump Room

Future Toilet

Future Elevator

Elevator

Running Trap

Type 'X' with Pipe Strainer set Bolt Flush with Bot. Iron at Trench

Type 'M'

Type 'N'

Type 'Y'

CL Filters

CL Filter Pumps

Trench

FD Fan

Induced Draft Fan Drain See Detail Type X

Phosphate & Dissolving Tank Drain

Chem Feed & Hyd Pump

CL Suction & Discharge

Boiler Drains See Detail Type 'X'

Pulverizer Oil Cooler Outlet Conns See Detail Type 'Y'

For Cont See Dwg VFX 2589

For cont see Yard Piping Dwg FX 1820

For Cont See Dwg VW 6968

CL Gr 15.25'

CL Gr 18.03'

CL Gr 21.46'

CL Gr 21.44'

CL Gr 21.46

Gr 22.0½

Gr 21.79'

Gr 21.13

Gr 21.18'

Gr 18.50'

Gr 20.38'

4 FD

4" FD

6" FD

4 CO

4 Vent

4x6 Inc

6x8 Inc

8x10 Inc

10x12 Inc

12" Conn

3 CI B&F WT Thimble

Outside Wall

Inside Wall of Trench or Pit

4" Double Hub

½" Dwg 1 thick Ring

12"x12"x12" Deep Oil Sump with chkd plate cover

12"x12"x8" Deep Concrete Sump with chkd plate cover

12"x8" Deep Concrete Sump with Chkd Plate Cover

3-125 lb ASA Std Flg

CLEAN WATER SUMP TANK THIMBLE
2 REQUIRED
No Scale

DETAIL 'V'
No Scale

TYPE 'Z'
No Scale

DETAIL 'W'
No Scale

TYPE 'M'
No Scale

TYPE 'X'
No Scale

TYPICAL FLOOR DRAIN
No Scale

TYPE 'Y'
No Scale

TYPE 'N'
No Scale

Notes —

All piping to be XHCI Soil Pipe with XHCI Soil Pipe Fittings unless otherwise noted
All piping shall be installed in strict accordance with local ordinances
All piping 4 and under to pitch ¼ per foot, piping 6" and over to pitch ⅛ per foot
For Weight and Material of pipe and fitting see specifications
All drain conns for future use to be plugged
If possible all piping to be installed so as to avoid running through structural members of floor system, otherwise adequate measures must be taken to protect reinforcements
Grades given are top of Floor Drains & Grading or C.L. of pipes
Suitable hangers and supports to be provided in Boiler
For Drainage Lines in Turbine Room see Dwg VFX 2339
For Water Tight thimbles see this sheet

All Vent conns to be Type X

LEGEND
C O - Clean Out
○○ - P Trap
F D - Floor Drain

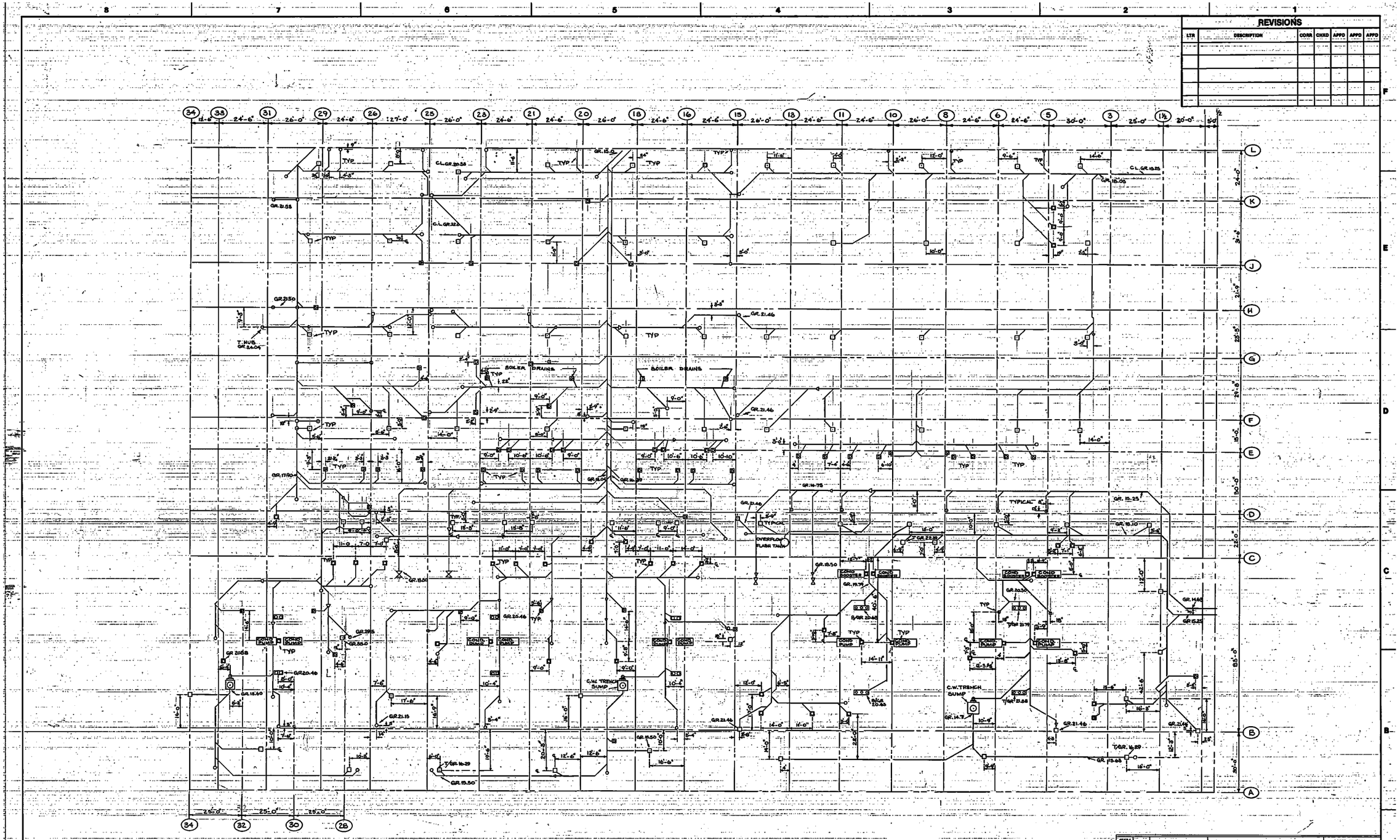
| DATE OF SIGNATURES | NO | DESCRIPTION | CHKD | INSP | COR | APPR |
|---|---|---|---|---|---|---|
| 4/7/49 | 8 | FIELD CHANGES | KMR | HPC | 4/8 | MWC |
| 6/21/49 | 7 | NOTES REMOVED | KMR | HPC | 6/22 | MWC |
| 2/26/49 | 6 | GRADE REMOVED | KMR | HPC | 2/26 | MWC |
| 10/5/49 | 5 | CHKD | KMR | HPC | 10/6 | MWC |
| 6/14/49 | 4 | DRAINS LOCATED | KMR | HPC | 6/15 | MWC |
| 10/5/48 | 3 | PIPING CHKD | KMR | HPC | 10/6 | MWC |
| 7/14/48 | 2 | SUMP ADDED DETAILS CHKD | KMR | HPC | CJW 7/29 | DCM |
| 6/14/48 | 1 | ELEV SUMP REMOVED DETAIL CHG'D DRAWG ADDED | KMR | HPC | 6/16 | DCM |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

| DATE | BY | CHKD | INSP | COR | APPR |
|---|---|---|---|---|---|
| 4/21/48 | TGG | 4/28 | HPC | 4/28 | MWC |

Designed by T G Grimes
Drawn by D W Morgan
Chkd by T G Grimes

P:\cadd\11108 nng pot rlv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:41:54 PM, JOConnor




## REVISIONS

| LTR | DESCRIPTION | CORR | CHKD | APPD | APPD | APPD |
|---|---|---|---|---|---|---|
| | | | | | | |

## LEGEND

- □ - FLOOR DRAIN
- ◧ - TYPE M
- ⊠ - TYPE Y
- ⊙ - TYPE X
- ◘ - TYPE Z
- ⊠ - TYPE Z W/ELBOW PLUGGED
- O - FLOOR CLEAN OUT
- ▽ - REDUCER

SCANNED 66493

| ITEM NO. | QTY. | PART NO. | DESCRIPTION | MATL/FNSH/ SPEC/VENDOR |
|---|---|---|---|---|

PARTS/ MATL LIST

INTERPRET DRAWING IN ACCORDANCE WITH THE LATEST ISSUE OF THE FOLLOWING STANDARDS: ANSI Y14.5, ANSI Y14.5M, ANSI Y14.5, ANSI Y14.5, ANSI A2.4, ANSI Y14.5 AND ANSI Y14.15.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND THE FOLLOWING GENERAL TOLERANCES APPLY WHERE APPLICABLE:

.XX ± .02
.XXX ± .005
ANGULAR ± 1° 0

POTOMAC RIVER GENERATING STATION "C"
FLOOR DRAINAGE LINES GR.22 0

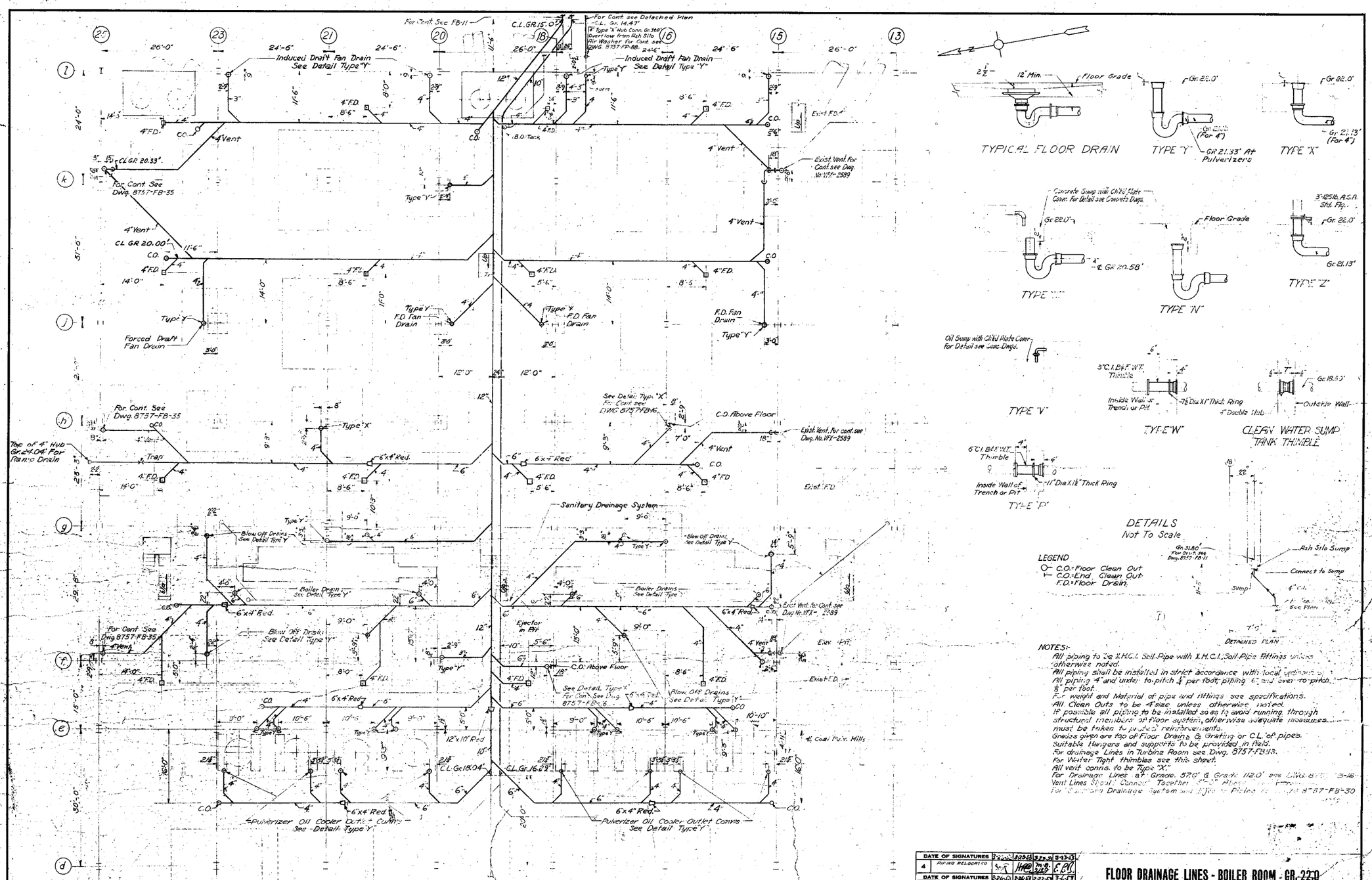
SH 1 OF 1

POTOMAC ELECTRIC POWER CO.
GENERATING ENGINEERING DEPARTMENT

| CHKD | APPD | APPD | APPD | DR. BY KENNY | SCALE 1/8" = 1'-0" |
|---|---|---|---|---|---|
| | | | | JOB NO. 03005 | DATE 7-29-83 |
| | — | | | 7E-GSC-8059 | REV. |

MICROFILM TITLE

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:41:17 PM, JOConnor







NOTES:-

All piping to be X.H.C.I. Soil Pipe with X.H.C.I. Soil Pipe Fittings unless otherwise noted.
All piping shall be installed in strict accordance with local ordinances.
All piping 4" and under to pitch 1/4" per foot, piping 6" and over to pitch 1/8" per foot.
For weight and Material of pipe and fittings see specifications.
All Clean Outs to be 4" size unless otherwise noted.
If possible all piping to be installed so as to avoid running through structural members of floor system, otherwise adequate measures must be taken to protect reinforcements.
Grades given are top of Floor Drains & Grating or C.L. of pipes.
Suitable Hangers and supports to be provided in field.
For drainage Lines in Turbine Room see Dwg. 8757-FB-13.
For Water Tight thimbles see this sheet.
All vent conns. to be Type "X".
For Drainage Lines at Grade 57.0' & Grade 112.0' see DWG. 8757-FB-16
Vent Lines Should Connect Together 5'-0" Above [illegible]
For Sanitary Drainage System and Ejector Piping [illegible] 8757-FB-30

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | PIPING RELOCATED | SRR | HPC | M.B. | E.P.B. |
| 3 | PIPING ADDED DETAIL ADDED DWG NOS. ADDED | SRR | HPC | M.B. | WWC |
| 2 | DRAIN CONNS. AND PIPING ADDED ISSUED FOR CONS. | SRR | HPC | M.B. | E.P.B. |
| 1 | GENERAL REVISION | | HPC | M.B. | E.P.B. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# FLOOR DRAINAGE LINES - BOILER ROOM - GR. 22.0

GENERATING STATION - C - POTOMAC RIVER - UNIT NO. 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

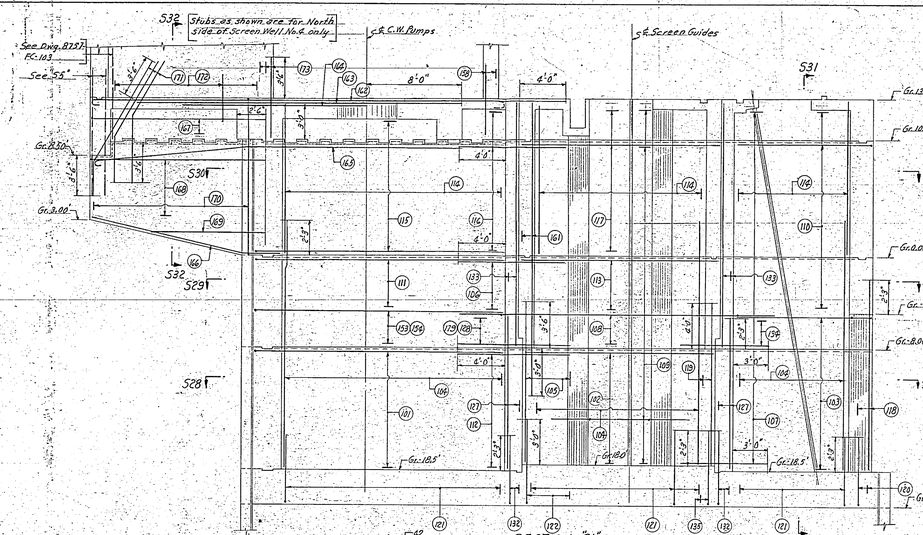
SCALE 1/8" = 1 FT
JUNE 19, 1952

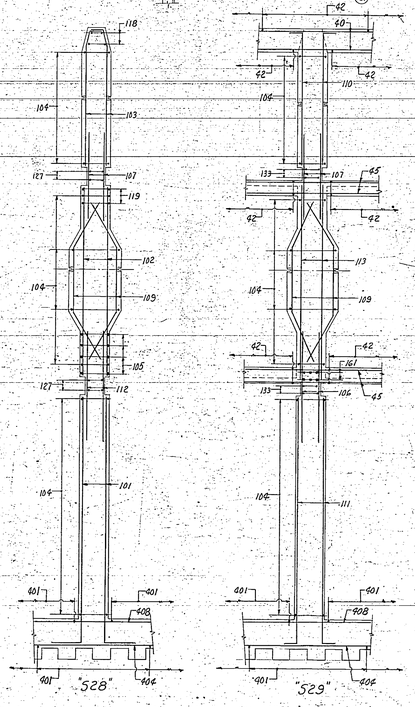
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-18-52 | 7-18-52 | 9-10-52 | 9-12-52 |
| SRR | HPC | M.B. | E.P.B. |

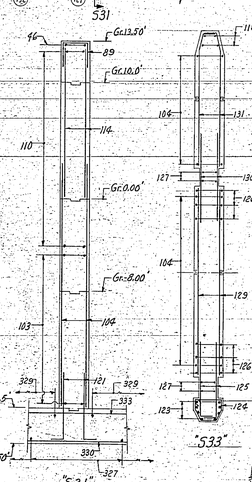
8757-FB-12

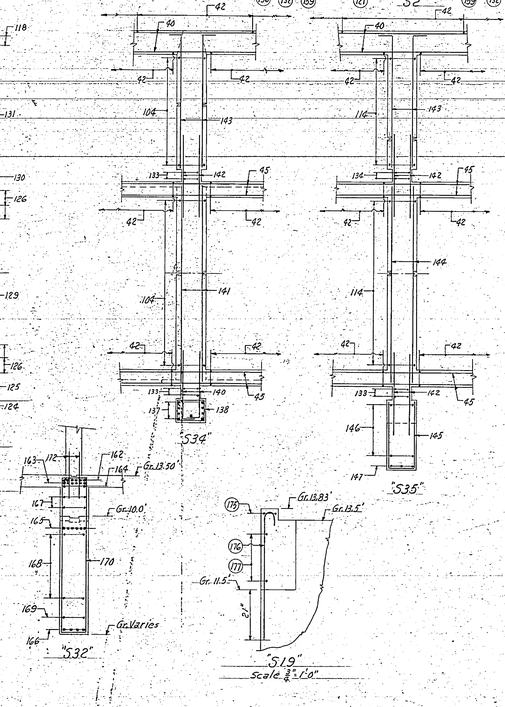
Designed by A.A. Micale
Drawn by R. G. Walker
Ch'd by [illegible]

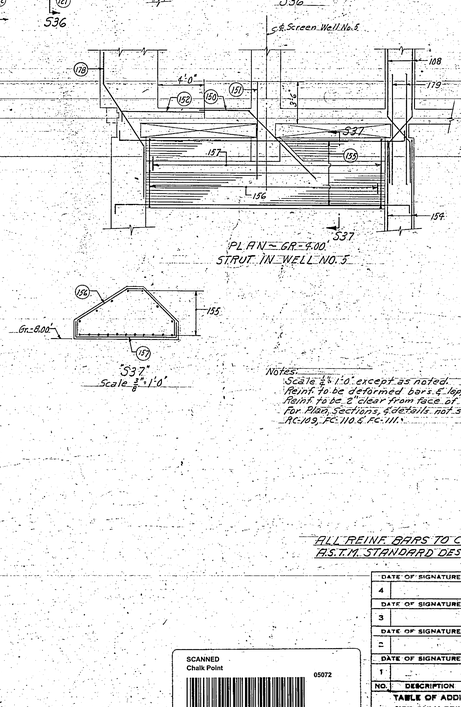
P:\cadd\1108 nrg pot rivl\recd\bldg tifs\tifs interior.dwg, Model, 8/5/2014 1:46:17 PM, JOConnor







Notes:
Scale 3/4"=1'0" except as noted.
Reinf. to be deformed bars & lapped 30 diams where cont.
Reinf. to be 2" clear from face of conc. except as noted.
For plan, sections, & details not shown, see Dwg's 8757-RC-107, RC-109, RC-110 & RC-111.

## REINFORCEMENT SCHEDULE - CONT.

| Group | No. | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 155 | 18 | #8 | | | |
| 156 | | #8 | | 12" o.c. | |
| 157 | | #8 | | 12" o.c. | |
| 158 | 4 | 1" | 6'-0" | | Typ. all Cols. except as shown See Plan Gr.13.50' |
| 159 | 6 | #8 | | | Stubs, 3 Ea. Face #12" |
| 160 | 8 | #8 | 7'-6" | | 4 Ea. Face |
| 161 | 6 | #6 | 24'-0" | | 3 Ea. layer, See "529" |
| 162 | 6 | #2 | | | Top, Hook, & out side bars at Strip Leg Slot |
| 163 | 6 | #4 | 28'-0" | | Top |
| 164 | 2 | #8 | 16'-0" | | Top |
| 165 | 6 | #5 | | | |
| 166 | 4 | #3 | | | Bot. |
| 167 | 4 | #8 | | | 2 Ea. Face #12"@ 0" |
| 168 | 8 | #8 | | | 4 Ea. Face #12"@ 0" |
| 169 | 2 | #8 | | | 1 Ea. Face |
| 170 | | #8 | | 12" o.c. | |
| 171 | 6 | #6 | Varies | | 2 ea. layer |
| 172 | | #8 | 9'-0" | 12" o.c. | Stubs, Ea. Face |
| 173 | 6 | #2 | 7'-0" | | 3 Ea. Face |
| 174 | | #8 | | 15" o.c. | |
| 175 | 2 | #8 | | | Cont. |
| 176 | | #8 | | 12" o.c. | |
| 177 | | #8 | | 12" o.c. | Cont. |
| 178 | 6 | #2 | | | Top Bar Gr.-5.0', Bot. #8 @ Gr.-8.0' Extra #12"@ 0" |
| 179 | 10 | #4 | 9'-6" | | 3 Ea. Face, for wall between Unit 4 & 5 only |

## REINFORCEMENT SCHEDULE

| Group | No | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 101 | | #6 | | 12" o.c. | Ea. Face #12" |
| 102 | | #8 | 16'-3" | 12" o.c. | Ea. Face |
| 103 | | #8 | | 12" o.c. | Ea. Face |
| 104 | | #8 | | 15" o.c. | Ea. Face |
| 105 | 8 | #6 | 13'-6" | | 4 Ea. Face, Extra |
| 106 | | #8 | 9'-6" | 6" o.c. | Ea. Face |
| 107 | | #8 | 7'-6" | 9" o.c. | Ea. Face |
| 108 | 8 | #6 | | | 4 Ea. Face #8"@ 15'-6" |
| 109 | | #8 | | 12" o.c. | Ea. Face #20" typ. |
| 110 | | #8 | | 12" o.c. | Ea. Face #12" |
| 111 | | #8 | | 10" o.c. | Ea. Face #12" |
| 112 | | #6 | 9'-6" | 8" o.c. | Ea. Face |
| 113 | | #8 | 17'-0" | 10" o.c. | Ea. Face |
| 114 | | #8 | 13'-0" | 15" o.c. | Ea. Face, Cut at Trench. |
| 115 | | #8 | | 10" o.c. | Ea. Face #12" |
| 116 | | #8 | 9'-6" | 10" o.c. | Ea. Face |
| 117 | | #8 | 17'-0" | 12" o.c. | Ea. Face, cut at Trench |
| 118 | 4 | #8 | 15'-9" | | 2 Ea. Face |
| 119 | 4 | #8 | 14'-6" | | 2 Ea. Face, Extra |
| 120 | 4 | #8 | | | Stubs, 2 Ea. Face #12" |
| 121 | | #8 | | 15" o.c. | Stubs, Ea. Face #12" |
| 122 | 8 | #6 | | | Stubs, 4 Ea. Face #18" |
| 123 | 8 | #6 | 14'-6" | As shown | See "533" |
| 124 | | #8 | | 15" o.c. | |
| 125 | | #8 | | 9" o.c. | Ea. Face #12" |
| 126 | 6 | #8 | 18'-3" | | 3 Ea. Face, Extra |
| 127 | 4 | #8 | 12'-9" | | 2 Ea. Face |
| 128 | 16 | #4 | 9'-6" | | 8 Ea. Face, for wall between Unit 3 & 4 only |
| 129 | | #8 | 16'-3" | 10" o.c. | Ea. Face |
| 130 | | #8 | 7'-6" | 9" o.c. | Ea. Face |
| 131 | | #8 | | 15" o.c. | Ea. Face |
| 132 | 4 | #8 | | | Stubs, 2 Ea. Face #12" |
| 133 | 6 | #8 | 21'-0" | | 2 Ea. Face |
| 134 | 6 | #4 | 7'-6" | | 3 Ea. Face, Extra |
| 135 | 4 | #8 | | | Stubs, 2 Ea. Face #12" |
| 136 | 8 | #2 | | | Stubs #12" |
| 137 | 9 | #2 | 11'-6" | As shown | See "534" |
| 138 | | #8 | | 15" o.c. | |
| 139 | 8 | #2 | 17'-0" | | 4 Ea. Face |
| 140 | | #8 | | 9" o.c. | Ea. Face #12" |
| 141 | | #8 | 17'-0" | 12" o.c. | Ea. Face |
| 142 | | #8 | 7'-0" | 12" o.c. | Ea. Face |
| 143 | | #8 | | 15" o.c. | Ea. Face #12" |
| 144 | | #8 | 17'-0" | 15" o.c. | Ea. Face, Cut at Trench |
| 145 | | #3 | Varies | 15" o.c. | |
| 146 | | #8 | Varies | 15" o.c. | Ea. Face |
| 147 | 3 | #8 | | | |
| 148 | 2 | 1" | | | |
| 149 | 3 | #8 | | | For Unit No. 5 only |
| 150 | 3 | #2 | | | #8 Top Bar at Gr.-5.00' #8 Bot Bar at Gr.-8.00' Extra |
| 151 | 5 | #2 | 8'-0" | | Top Bar Gr.-5.0' Extra Bot Bar Gr.-8.0' |
| 152 | 3 | #8 | | | #12" Top Bar at Gr.-5.00' #12" Bot Bar at Gr.-8.00' Extra |
| 153 | 18 | #5 | | | 5 Ea. Face, For wall between Unit 3 & 4 only |
| 154 | 8 | #2 | | | 2 Ea. Face, for wall between Unit 4 & 5 only |

ALL REINF. BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A 305

APPROVED [signature]
CERTIFIED PROFESSIONAL ENGINEER, NO. 998
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 5 | DATE OF SIGNATURES | | | | |
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

SCANNED
Chalk Point
05072

# SCREEN WELL - REINFORCING - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

| DESIGN | DRAWN | CHK. | APPR. |
|---|---|---|---|
| R.J.S. | R.J.S. | G.E.B. | J.C. |

SCALE GIVEN
JULY 6, 1953

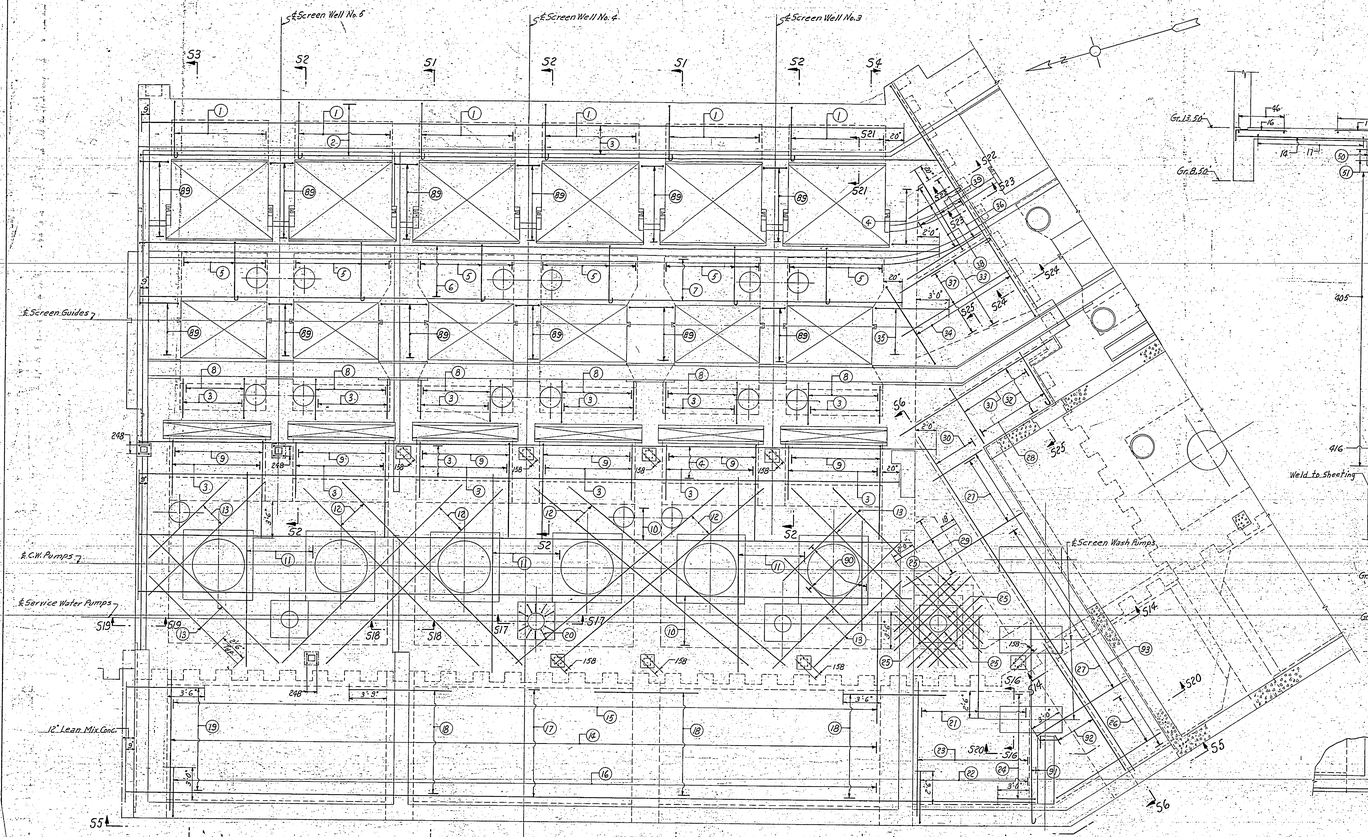
Ref. Print J.I. EOR

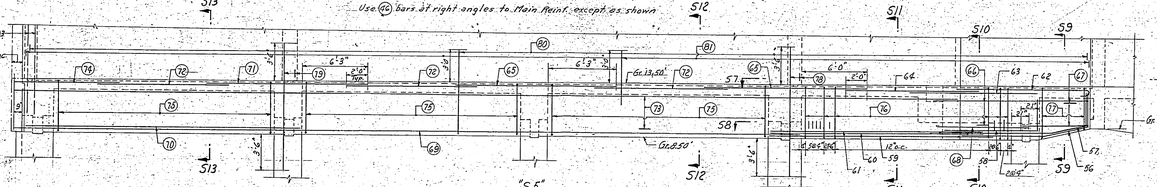
8757-RC-108

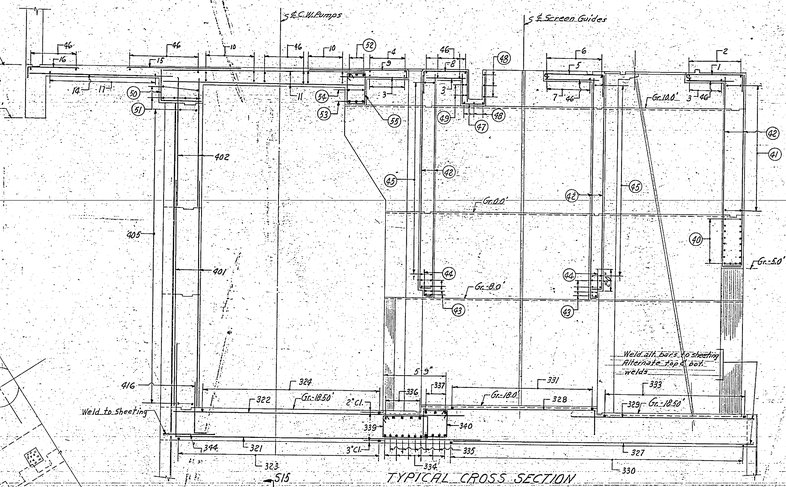
R.C. 10087

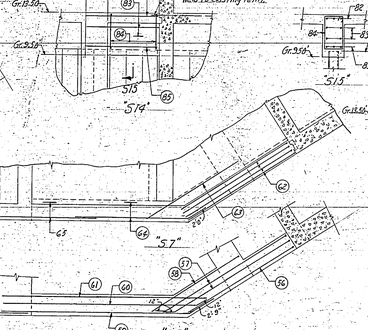
Designed By: R. Jaskey Drawn By: R.J.S. Checked
Engineer Data
Ireland Print
Copies Checked Checked By: H. Mord Date

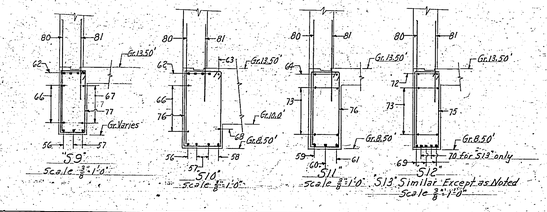
SCANNED
Chalk Point
05073




Notes
Scale ¼"=1'0" except as noted.
Reinf. to be deformed bars, if lapped 30 diams. minimum cont.
Reinf. to be 2" clear from face of Conc. except as noted.
For sections & details not shown see Dwgs. 8757-RC-108, RC-109, RC-110, & RC-111.
For conc. outline of Screen Well see Dwgs. 8757-RC-87, RC-88 RC-89, & RC-90.

ALL REINF. BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A305.

## REINFORCEMENT SCHEDULE CONT.

| Group | No | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 56 | 1 | 1"ø | | | Bot. ⊢1'0" |
| 57 | 2 | 1"ø | | | Bot. ⊢1'6" See 57 |
| 58 | 1 | 1"ø | | | Bot. ⊢3'6" |
| 59 | 1 | 1"ø | | | Bot. — |
| 60 | 1 | 1"ø | | | Bot. — |
| 61 | 1 | 1"ø | 15'0" | | Bot. |
| 62 | 4 | 1"ø | | | Top: ⊃ |
| 63 | 1 | 1⅛" | 16'0" | | Top See 57' |
| 64 | 2 | 1⅛" | | | Top: — |
| 65 | 5 | 1"ø | 15'0" | | Top |
| 66 | | 1⅛" | | 12"c.c. | Outside Face ⊓ |
| 67 | | 1⅛" | 6'3" | 12"c.c. | Inside Face |
| 68 | 1 | 1⅛" | 8'6" | | Inside Face |
| 69 | 3 | 1"ø | | | Bot. |
| 70 | 2 | 1"ø | | | Bot. |
| 71 | 4 | 1¼" | 15'0" | | Top: |
| 72 | 2 | 1¼" | | | Top: |
| 73 | | 1⅛" | | 12"c.c. | Ea. Face |
| 74 | 4 | 1¼" | 9'9" | | Top: |
| 75 | | 1⅛" | | 18"c.c. | □ |
| 76 | | 1⅛" | | | □ |
| 77 | | 1⅛" | | 12"c.c. | □ Varies |
| 78 | 6 | 1¼" | 12'0" | | 3 ea. face, Stubs |
| 79 | 4 | 1¼" | 12'0" | | 2 ea. face, Stubs |
| 80 | | 1¼ | 7'9" | 12"c.c. | Outside face, Stubs |
| 81 | | 1⅛" | 5'0" | 8"c.c. | Inside Face, Stubs |
| 82 | 3 | 1⅛" | | | Top, weld to existing reinf. |
| 83 | 4 | 1⅛" | | | 2 ea. face. |
| 84 | | 1⅛" | | 12"c.c. | □ |
| 85 | 3 | 1⅛" | | | Bot. |
| 86 | | 1⅛" | | 12"c.c. | ⌐ |
| 87 | 3 | 1⅛" | | | 9"c.c. ⊢0" |
| 88 | 2 | 1⅛" | | | ⊃ ⊢0" |
| 89 | | 1⅛" | | 12"c.c. | Top ⊢2'0" |
| 90 | 12 | 1⅛" | 8'0" | 18"c.c. | 6 Top, 6 Bot, Top ea. Old Bumper, Stubs |
| 91 | 6 | 1¼ | | | 2 layers Top, See 58 |
| 92 | | 1⅛" | | 12"c.c. | Top & Bot |
| 93 | | 1¼" | | 12"c.c. | Bot. weld ext. bars to existing reinf. |

## REINFORCEMENT SCHEDULE

| Group | No | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| | 1 | 1⅛" | | 12"c.c. | Top ⊂ 1'0" |
| | 2 | 1⅛" | | 12"c.c. | Top ⊢1'6" |
| | 3 | 1⅛" | | 12"c.c. | Bot. |
| | 4 | 1⅛" | | 12"c.c. | Top ⊢3'0" |
| | 5 | 1⅛" | | 12"c.c. | Top, Cut & Bend at P.H. |
| | 6 | 1⅛" | | 12"c.c. | Top, Cut at P.H. ⊢1'0" |
| | 7 | 1⅛" | | 12"c.c. | Bot., Spread at P.H. |
| | 8 | 1⅛" | | 12"c.c. | Top ⊢2'0" Varies |
| | 9 | 1⅛" | | 12"c.c. | Top ⊢3' |
| | 10 | 1⅛" | | 12"c.c. | Top & Bot. Cut P.H. |
| 16 | 11 | 1"ø | Varies | | 8 Top & 8 Bot. |
| 10 | 12 | 1"ø | Varies | | 5 Top & 5 Bot. |
| 8 | 13 | 1¼" | Varies | | 4 Top & 4 Bot. |
| | 14 | 1⅛" | | 12"c.c. | Bot. |
| | 15 | 1⅛" | 18'6" | 12"c.c. | Top Cut, Chock at Joints Omit at Brackets |
| | 16 | 1⅛" | | 12"c.c. | Top, Omit at Brackets ⊢1'0" |
| | 17 | 1⅛" | | 12"c.c. | Bot. |
| | 18 | 1⅛" | 10'0" | 12"c.c. | Top |
| | 19 | 1⅛" | 7'3" | 12"c.c. | Top |
| 12 | 20 | 1⅛" | | | Top, ea. S.W. Pump Bays |
| | 21 | 1⅛" | 9'6" | 12"c.c. | Top |
| | 22 | 1⅛" | | 12"c.c. | Top ⊢1'2" |
| | 23 | 1⅛" | | 12"c.c. | Bot. |
| | 24 | 1⅛" | | 12"c.c. | Top ⊢3'0" |
| 6 | 25 | 1⅛" | Varies | | 3 Top & 3 Bot. |
| | 26 | 1⅛" | | 12"c.c. | Top, Weld to existing reinf. ⊢1'6" |
| | 27 | 1⅛" | | 12"c.c. | Top, Weld to existing reinf. |
| | 28 | 1⅛" | | 12"c.c. | Bot. — |
| | 29 | 1⅛" | | 12"c.c. | Bot. |
| | 30 | 1⅛" | | 15"c.c. | Top & Bot. |
| | 31 | 1⅛" | | 12"c.c. | Top ⌐ |
| | 32 | 1⅛" | | 15"c.c. | Top & Bot. |
| | 33 | 1⅛" | | 12"c.c. | Bot. ⊢ |
| | 34 | 1¼" | | 12"c.c. | Top ⊢2'0" |
| | 35 | 1⅛" | | 12"c.c. | Top ⊢3'0" |
| | 36 | 1⅛" | | 12"c.c. | Top, Weld to Exist. reinf. |
| | 37 | 1⅛" | | 12"c.c. | Top, weld new reinforcing to P.H. |
| | 38 | 1⅛" | | 9"c.c. | Bot. ⊢ |
| | 39 | 1⅛" | | 12"c.c. | Bot. ⊢1'6" |
| 18 | 40 | 1⅛" | | | Cont. |
| | 41 | 1⅛" | | 12"c.c. | Cont. |
| | 42 | 1⅛" | | 12"c.c. | L |
| 8 | 43 | 1¼" | | | Cont. |
| | 44 | 1⅛" | | 12"c.c. | L |
| | 45 | 1⅛" | | 12"c.c. | Cont. |
| | 46 | 1¼" | | 12"c.c. | Cont. at right angles to Main Reinf. |
| | 47 | 1¼" | | 12"c.c. | ⊢ Varies |
| 3 | 48 | 1¼" | | | Cont. |
| 4 | 49 | 1¼" | | | Cont. 2 ea. face |
| | 50 | 1⅛" | | 12"c.c. | L |
| 6 | 51 | 1⅛" | | | Cont. |
| 3 | 52 | 1¼" | | | Top, Cont. |
| 3 | 53 | 1¼" | | | Bot., Cont. |
| 2 | 54 | 1¼" | | | Cont. |
| | 55 | 1¼" | | 18"c.c. | □ |

APPROVED [signature]
CERTIFIED PROFESSIONAL ENGINEER, NO. 788
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 5 | DATE OF SIGNATURES | | | | |
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - REINFORCING - SHEET 1

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

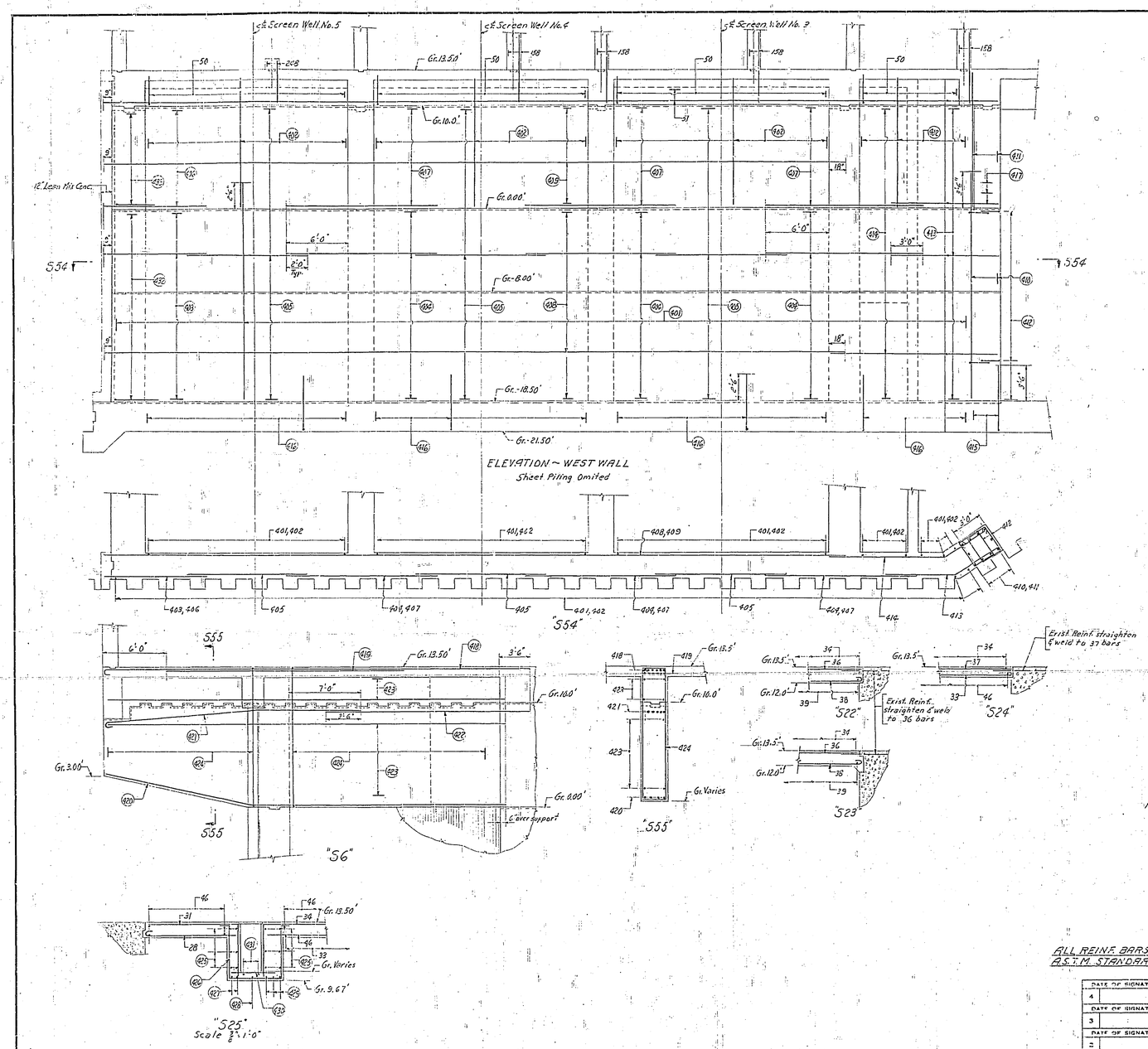
SCALE GIVEN
JULY 6, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 8-8-53 | 8-4-53 | 8-6-53 | 8-6-53 |
| WMC | LL | EDB | |

8757-RC-107

R.C. 80086

Drawing No. D-8757-RC-107 Rev. 5 of Original
Dup. Orig. by Photostat or Chkd. by Photostat




## REINFORCEMENT SCHEDULE

| Group | No | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 401 | | 1" ⌀ | 21'-0" | 18" o.c. | Ea. Face |
| 402 | | 1" ⌀ | 12'-6" | 18" o.c. | Ea. Face |
| 403 | | 1 1/8" ⌀ | 9'-9" | 8" o.c. | Outside Face |
| 404 | | 1 1/4" ⌀ | 14'-6" | 9" o.c. | Outside Face |
| 405 | | 3/4" ⌀ | | 12" o.c. | Outside Face |
| 406 | | 1 1/4" ⌀ | 9'-9" | 10" o.c. | Outside Face |
| 407 | | 1 1/4" ⌀ | 14'-6" | 12" o.c. | Outside Face |
| 408 | | 1 1/4" ⌀ | | 10" o.c. | Inside Face |
| 409 | | 1 1/4" ⌀ | | 14" o.c. | Inside Face |
| 410 | 10 | 1 1/4" ⌀ | 22'-0" | | See "S54" |
| 411 | 10 | 1 1/8" ⌀ | 13'-0" | | See "S54" |
| 412 | | 5/8" ⌀ | | 12" o.c. | In Pairs |
| 413 | | 7/8" ⌀ | | 12" o.c. | Outside Face |
| 414 | | 7/8" ⌀ | | 12" o.c. | Inside Face |
| 415 | 10 | 1 1/4" ⌀ | | | Stubs 2'-0" |
| 416 | | 1" ⌀ | | 18" o.c. | Stubs, Inside Face only 21' |
| 417 | 3 | 7/8" ⌀ | | 12" o.c. | Outside Face, Same as No. 413 Alt. with No. 413 |
| 418 | 6 | 1 1/4" ⌀ | | | Top |
| 419 | 6 | 1 1/4" ⌀ | 23'-0" | | Top |
| 420 | 4 | 1" ⌀ | | | Bot. |
| 421 | 6 | 1 1/4" ⌀ | | | |
| 422 | 2 | 1 1/4" ⌀ | | | |
| 423 | | 3/4" ⌀ | | 12" o.c. | Ea. Face |
| 424 | | 3/4" ⌀ | | 12" o.c. | |
| 425 | 6 | 5/8" ⌀ | | | 3 Fa. Face |
| 426 | | 1/2" ⌀ | | 12" o.c. | 2'-6" |
| 427 | 2 | 3/4" ⌀ | | | Bot. Trench |
| 428 | 1 | 3/4" ⌀ | | | Bot. Trench |
| 429 | 3 | 3/4" ⌀ | | | Bot. Trench, Fan under wall |
| 430 | | 1/2" ⌀ | | 12" o.c. | |
| 431 | 2 | 1/2" ⌀ | | | |
| 432 | | 1 1/4" ⌀ | | 8" o.c. | 3/4" @ 2'-6" Outside Face |
| 433 | | 1 1/4" ⌀ | | 10" o.c. | 3/4" @ 2'-6" Outside Face |

Notes
Scale 1/4" = 1'-0" except as noted otherwise
Reinf. to be deformed bars & lapped 30 diams. where cont.
Reinf. to be 2" Cl. from face of conc. except as noted.
For Plan, sections, & details not shown see Dwgs. 8757-RC-107, RC-108, RC-109, & FC-110.

ALL REINF. BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A305

APPROVED [signature]
CERTIFIED PROFESSIONAL ENGINEER, NO. 588
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CH-KD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - REINFORCING - SHEET 5

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

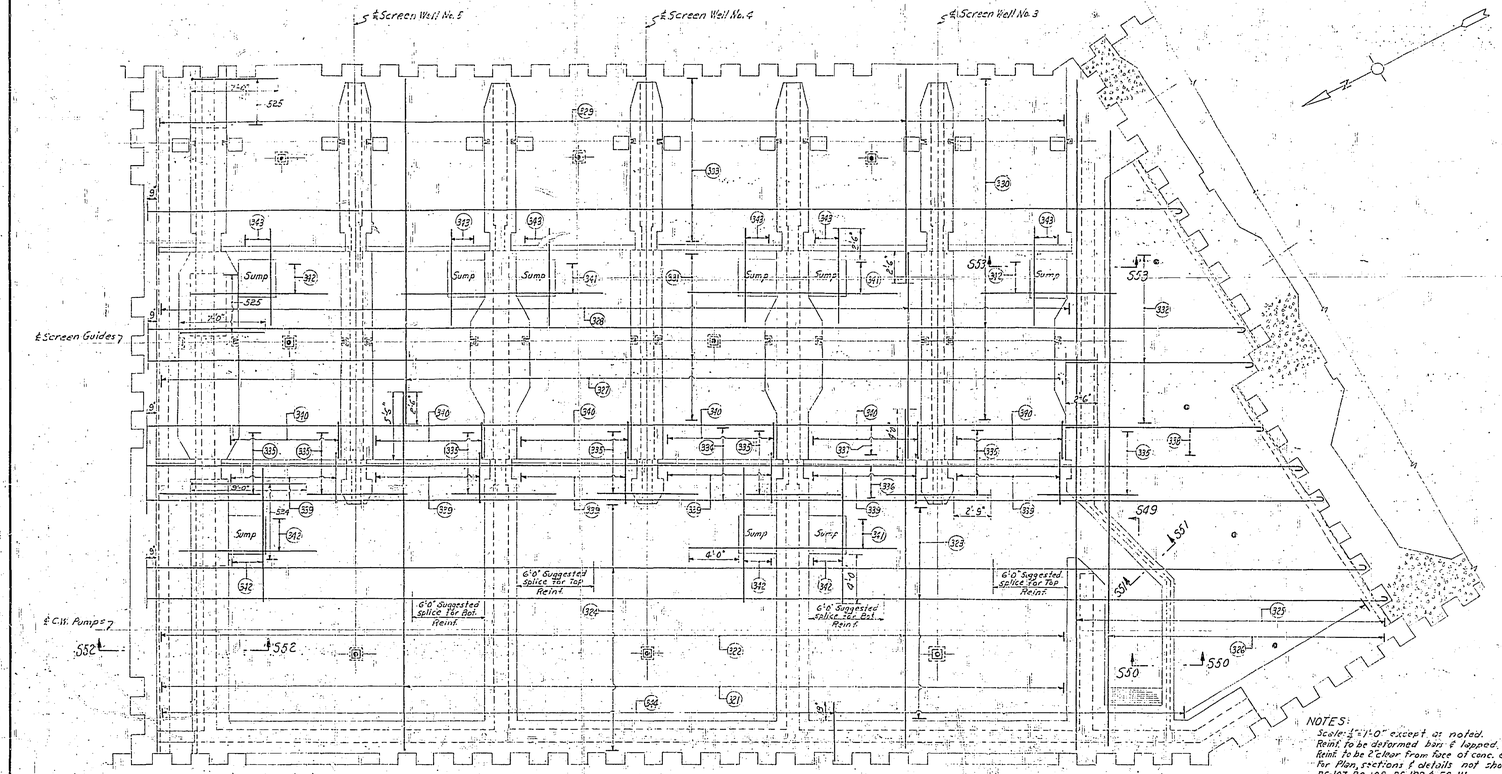
SCALE GIVEN
JULY 6, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 8-3-53 | 8-4-53 | 8-4-53 | 8-4-53 |
| P.G. | RWL | E.I. | EAD |

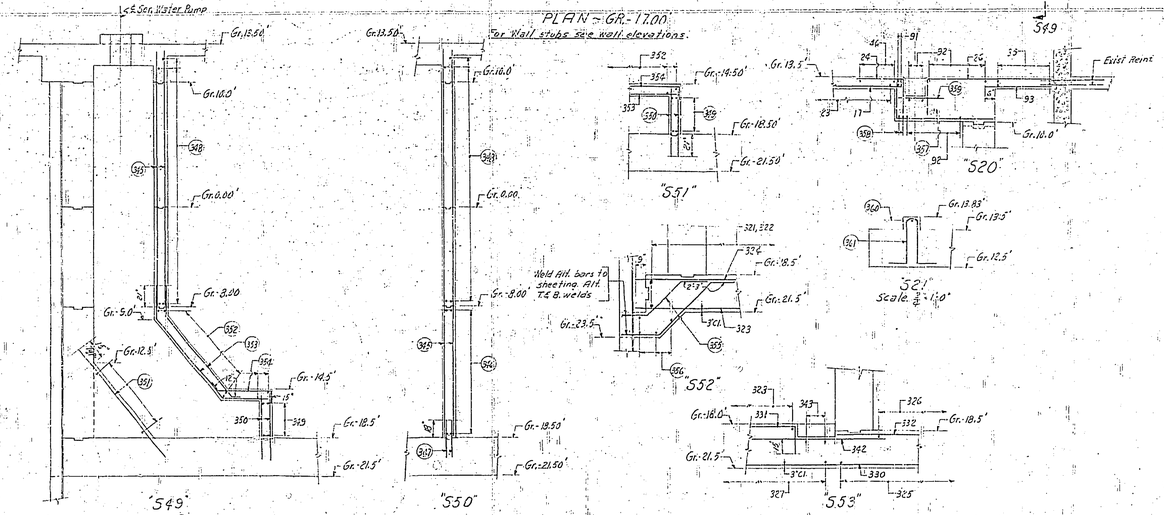
8757-FC-111

R.C. 50090

Designed by A. Zaskey Drawn by E.N. Johnson
Des. Chk'd by J. Rosciuszko Chk'd by A. Morabito




PLAN - GR. -17.00




## REINFORCEMENT SCHEDULE

| Group | No. | Size | Length | Spacing | | Remarks |
|---|---|---|---|---|---|---|
| 321 | | 1"□ | | 9" o.c. | Bot. | 28'9" |
| 322 | | 1"□ | | 9" o.c. | Top | Cut & bend at Sumps |
| 323 | | 1"□ | Varies | 9" o.c. | Bot. | → |
| 324 | | 1"□ | Varies | 9" o.c. | Top | → Cut & bend at Sumps |
| 325 | | ⅞"□ | Varies | 18" o.c. | Bot. | |
| 326 | | ⅞"□ | Varies | 18" o.c. | Top | |
| 327 | | ⅞"□ | | 18" o.c. | Bot. | Weld alt. bars to sheeting |
| 328 | | ⅞"□ | | 15" o.c. | Top | 25°→ Cut & bend at Sumps |
| 329 | | ⅞"□ | | 18" o.c. | Top, | Weld alt. bars to sheeting |
| 330 | | 1"□ | Varies | 12" o.c. | Bot. | → See Typ. Splice for Bot. Reinf. |
| 331 | | 1"□ | | 12" o.c. | Top, | Cut & bend at Sumps |
| 332 | | 1"□ | Varies | 12" o.c. | Top | → Lap with No. 331 |
| 333 | | 1"□ | Varies | 12" o.c. | Top | → See Typ. Splice for Top Reinf. |
| 334 | 6 | 1"□ | Varies | | Bot. | → See Typ. Splice for Bot. Reinf. |
| 335 | 5 | 1"□ | 8'0" | | Bot. | Lap with No. 334 |
| 336 | 5 | 1"□ | Varies | | Top | → See Typ. Splice for Top Reinf. |
| 337 | 3 | 1"□ | | | Top | See Typ Splice for Top Reinf. |
| 338 | 3 | 1"□ | | | Top | Lap with No. 337 |
| 339 | | ⅞"□ | | 12" o.c. | | Pair with No. 340 |
| 340 | | ⅞"□ | | 12" o.c. | | Pair with No. 339 |
| 341 | 4 | 1"□ | 16'6" | | Top, | at Sump |
| 342 | 4 | 1"□ | 11'0" | | Top, | at Sump |
| 343 | 2 | ⅞"□ | 8'0" | | Top, | at sump |
| 344 | | 1"□ | | 18" o.c. | Bot. | weld to sheeting |
| 345 | | ½"□ | | 18" o.c. | For | limits see "346" E.F. |
| 346 | | ⅜"□ | Varies | 18" o.c. | E.F. | See "344" & "345". |
| 347 | | ½"□ | 3'0" | 12" o.c. | Studs | E.F. |
| 348 | | ⅝"□ | | 12" o.c. | See | "356" E.F. |
| 349 | | ⅝"□ | | 8" o.c. | See | "350" E.F. |
| 350 | | ⅝"□ | Varies | 8" o.c. | For | limits see "344" E.F. |
| 351 | | ½"□ | | 12" o.c. | Ea. | Way |
| 352 | | ⅝"□ | | 8" o.c. | See | "345" E.F. |
| 353 | | ⅝"□ | | 8" o.c. | E.F. | |
| 354 | | ⅝"□ | | 8" o.c. | Top | |
| 355 | | 1"□ | | 18" o.c. | Weld | all bars to sheeting (Typical) |
| 356 | 4 | ½"□ | | | Cont. | |
| 357 | | ⅝"□ | | 12" o.c. | Bot. | 42'0" |
| 358 | 2 | ⅝"□ | | | Bot. | Extra |
| 359 | | ½"□ | | 12" o.c. | | |
| 360 | 1 | ½"□ | | | Cont. | |
| 361 | | ½"□ | | 15" o.c. | | 26° |

REINF. SCHEDULE CONT. FROM Dwg. 8757-FC-109

| | | | | | | |
|---|---|---|---|---|---|---|
| 512 | 5 | 1"□ | | 9" o.c. | | For Sect. See "524" |
| 513 | 5 | 1"□ | 13'0" | 15" o.c. | Near | Face Extra No. 5 Bars |
| 514 | 15 | 1"□ | | | | Extra No. 5 Bars Near Face |
| 515 | 10 | 1"□ | 7'6" | | | Extra No. 5 Bars Near Face |
| 516 | 20 | 1"□ | 13'6" | | | Extra No. 5 Bars Near Face |
| 517 | 10 | 1"□ | | | | For Sect. See "524" |
| 518 | 5 | 1"□ | 20'0" | | Near | Face At Anchor |
| 519 | 4 | ⅝"□ | | | | 2 Ea. E. Extra 38'0" See 10.75 & 10.25 |
| 520 | 5 | 12" | 22'3" | 4" o.c. | | See Note between typ. Reinf. |

| | | | | | | |
|---|---|---|---|---|---|---|
| 521 | 8 | 1¼"□ | 22'3" | 4" o.c. | | See Note between typ. reinf. |
| 522 | 3 | 1¼"□ | 14'6" | | | F.F. Extra as shown on "538" |
| 523 | 5 | 1¼"□ | 14'6" | | | F.F. Extra as shown on "538" |
| 524 | 8 | 1¼"□ | | 9" o.c. | | See "520" F.F. Rll. with No. 335 |
| 525 | | 1¼"□ | | 12" o.c. | | See "520" F.F. Rll. with No. 330 |

ALL REINF. BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A305

APPROVED Ernest A. Dreyfous
CERTIFIED PROFESSIONAL ENGINEER, NO. 396
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| DATE OF SIGNATURES 4 | | | | | |
| DATE OF SIGNATURES 3 | | | | | |
| 2 | DATE OF SIGNATURES 12-1-53 10-14-53 10-15-53 10-20-53 | | | | |
| | DESIGN, CURVES SEE # SEE INDICATED | RM | RML | E.I. | E.A.D. |
| 1 | DATE OF SIGNATURES 9-30-53 9-3-53 9-3-53 9-4-53 | | | | |
| | GRADE SCHEDULE ADDED | RM | Plat. | Jeffe | L.N.C. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - REINFORCING - SHEET 4

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JULY 6, 1953

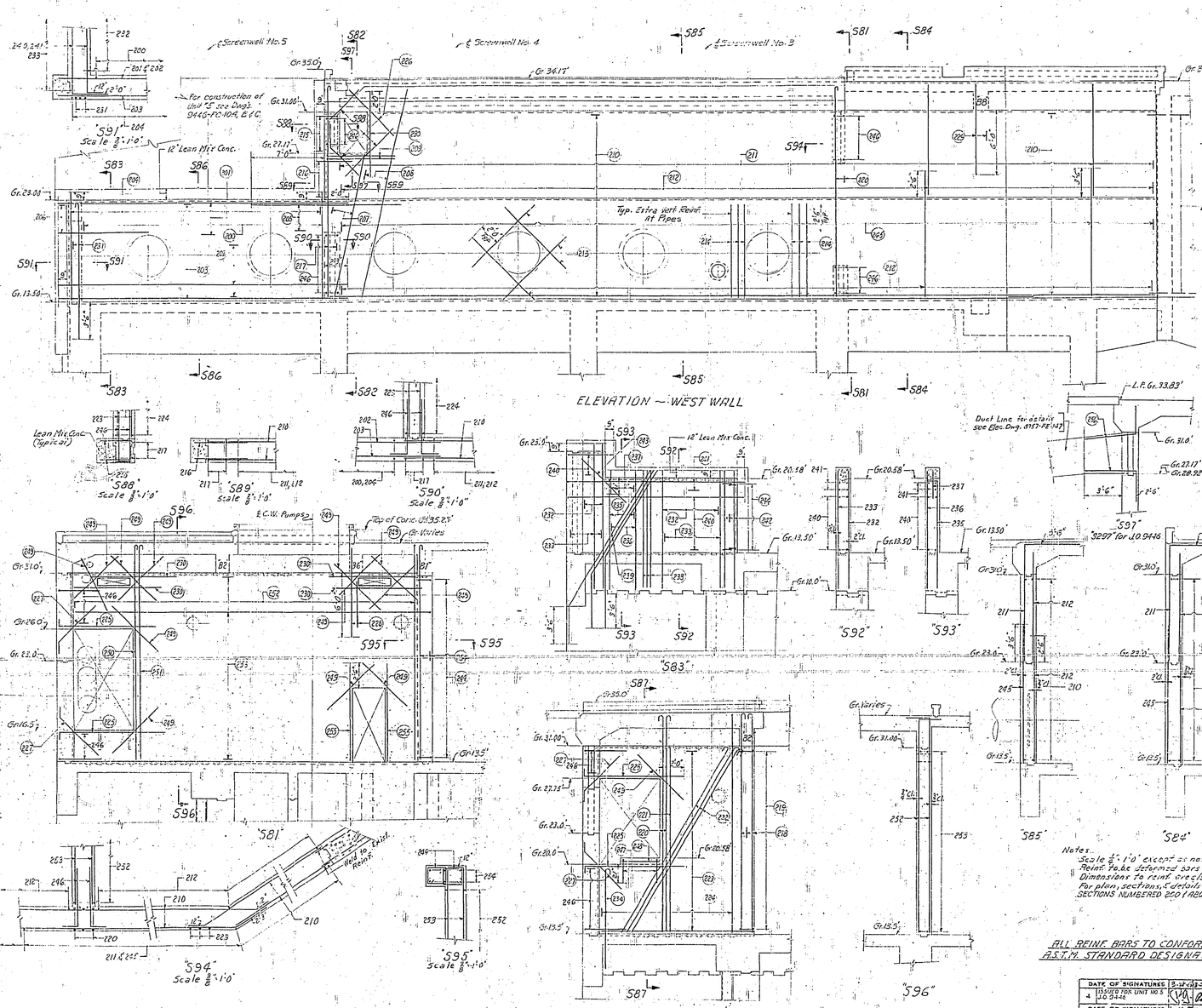
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 8-31-53 | 8-31-53 | 8-4-53 | 10-15-53 |
| RM | RML | E.I. | E.A.D. |

8757-FC-110

R.C. 30089

Designed by R. Zaskow Drawn by F.N. Johnson
Des. Chk'd by J. Rossing Chk'd by A. Worsdorfer

Engineers Print
As Recorded




## REINFORCEMENT SCHEDULE

| Group | No. | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 200 | | #4 | | 8"o.c. | Cut at pipes inside face |
| 201 | 7 | 1"ø | | | Inside face |
| 202 | | #4 | | 15"o.c. | Cut at pipes inside face |
| 203 | | #4 | | 15"o.c. | Cut at pipes outside face |
| 204 | | 1"ø | | 12"o.c. | Cut at pipes outside face |
| 205 | 5 | 1¼ø | 14'-0" | Equal | Outside Face |
| 206 | 5 | 1¼ø | 8'-6" | Equal | Outside Face |
| 207 | 3 | #4 | | | Inside face |
| 208 | 6 | #4 | | | Inside face |
| 209 | 4 | #4 | | | 2 ea. Face ⊻ 1'-0" |
| 210 | | #4 | | 15"o.c. | ea. face, cut at pipes Weld to existing reinf. |
| 211 | | 1¼ø | | 6"o.c. | Outside face |
| 212 | | #4 | | 8"o.c. | cut at pipes inside face |
| 213 | 8 | 1¼ø | | | 4 ea. typ. all Pipe Openings |
| 214 | 3 | #4 | | | Inside Face Fit into No. 206 & 212 |
| 215 | | #8 | | 15"o.c. | Stubs ea face |
| 216 | | #8 | 3'-0" | 15"o.c. | Stubs ea face |
| 217 | 4 | 1½"ø | | | 2 ea. face |
| 218 | 6 | 1"ø | | | 3 ea. face, Weld P.R. Bars to Nos. 202 & 217 (Typ. all Openings) |
| 219 | | #8 | | 15"o.c. | |
| 220 | 6 | 1½"ø | | | 3 ea. layer |
| 221 | 3 | 1½"ø | | | 1 ea. face |
| 222 | 6 | 1¼"ø | | | 3 ea. face |
| 223 | | #8 | | 12"o.c. | ea. face |
| 224 | | #8 | | 12"o.c. | ea. face, cut at pipes |
| 225 | 2 | #4 | | | 1 ea. face |
| 226 | 8 | #8 | 6'-0" | | 4 ea. face |
| 227 | 2 | #8 | 6'-0" | | 1 ea. face |
| 228 | 3 | 1¼ø | 8'-6" | | Outside Face |
| 229 | 3 | 1"ø | 8'-6" | | Outside Face |
| 230 | 2 | #5 | 6'-0" | | 1 Ea. Face |
| 231 | 3 | 1½"ø | | | Outside Face |
| 232 | | 1"ø | | 12"o.c. | Inside Face |
| 233 | | 1"ø | | 10"o.c. | Outside Face |
| 234 | 2 | 1½"ø | | | 1 Ea. Face |
| 235 | 3 | 1"ø | | | Inside Face |
| 236 | | 1"ø | | 10"o.c. | Outside Face |
| 237 | 4 | #8 | 2'-6" | | Stubs |
| 238 | 9 | 1½"ø | | | 3 ea. layer |
| 239 | 6 | 1½"ø | | | 3 ea. face |
| 240 | | #8 | | 12"o.c. | ea. face |
| 241 | 4 | #5 | | | 2 ea. face |
| 242 | 6 | 1"ø | | | |
| 243 | 2 | #8 | 6'-0" | | 1 ea. face |
| 244 | | #3 | | 15"o.c. | In Pairs |
| 245 | | 1"ø | | 12"o.c. | Outside face cut at pipes |
| 246 | | #5 | | 12"o.c. | Stubs, ea face ⊻ 1'-0" |
| 247 | 4 | #8 | | | |
| 248 | 2 | #8 | | | |
| 249 | 2 | #8 | 6'-0" | | 1 ea. face |
| 250 | 3 | 1½"ø | | | 1 in a layer |
| 251 | 2 | 1½"ø | | | 1 ea. face |
| 252 | | #8 | | 12"o.c. | ea. face |
| 253 | | #8 | | 12"o.c. | |
| 254 | 6 | 1"ø | | | |
| 255 | 2 | 1¼"ø | | | 1 ea. face |
| 256 | 6 | 1"ø | | | Stubs, 3 Types of Gang. 2 ea. at Bars |

Notes.
Scale 1/4" = 1'-0" except as noted.
Reinf. to be deformed bars & lap and 30 diams where cont.
Dimensions to reinf. are for distances from face of conc.
For plans, sections, & details not shown see Dwgs. 8757-FC-102 to 103.
SECTIONS NUMBERED 200 & ABOVE ARE FOR J.O. 9446.

ALL REINF. BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A 305

APPROVED Ernest C. Davidson
CERTIFIED PROFESSIONAL ENGINEER, NO. 888
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | ISSUED FOR UNIT NO 5 J.O. 9446 | 7-24-53 | 7-27-53 | 7-29-53 | 7-30-53 |
| 3 | ISSUED FOR CONST. ADDS J.O. 9281 | 12-14-52 | 12-15-52 | 12-17-52 | 12-19-52 |
| 2 | ISSUED FOR COORDINATION PRINTS | 11-12-52 | 11-14-52 | 11-17-52 | 11-19-52 |
| 1 | ISSUED FOR CONSTRUCTION | 9-1-52 | 9-2-52 | 9-10-52 | 9-12-52 |

DATE OF SIGNATURES

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL HOUSE - REINFORCING - SHEET 3

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-7-53 | 7-7-53 | 7-13-53 | 7-13-53 |

SCALE GIVEN
JUNE 10, 1953

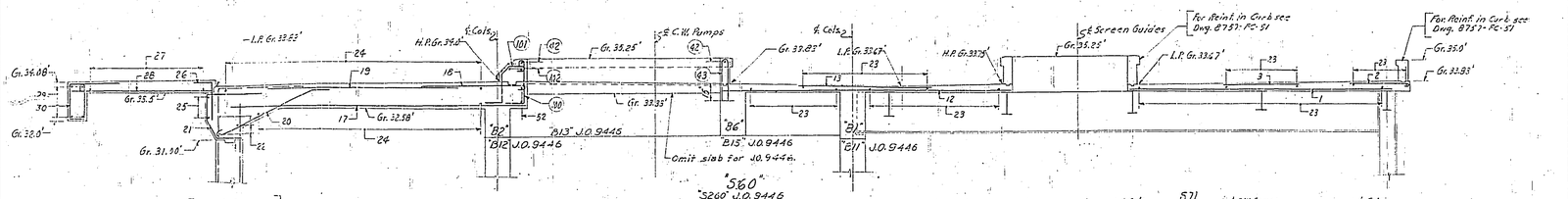
8757-FC-103

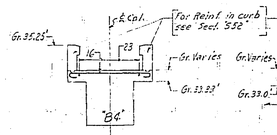
R.C. 8757-FC

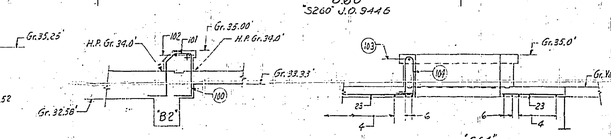
Designed by A. Jones. Drawn by F.N. Lorenzen
Des. Chk'd by J. Rosenwald. Cor. Chk'd by A. Morse

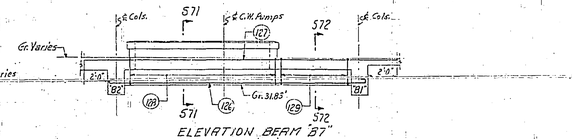
Extra Prints | Engineer

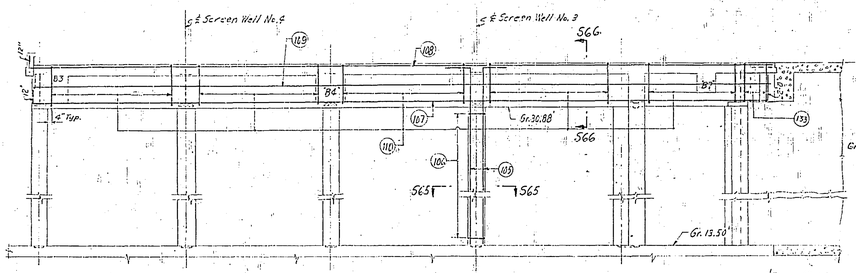
(4) CHGD. W.P.C. 8-12-53 | (3) CHGD. W.C.M. 12-22-53 | (2) CHGD. 11-11-53 G.M.S. | (1) CHGD. 10-13-53 G.M.S.

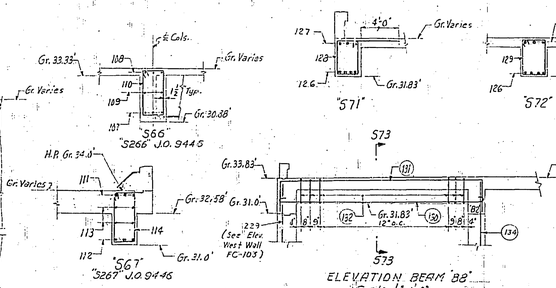


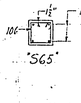



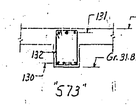



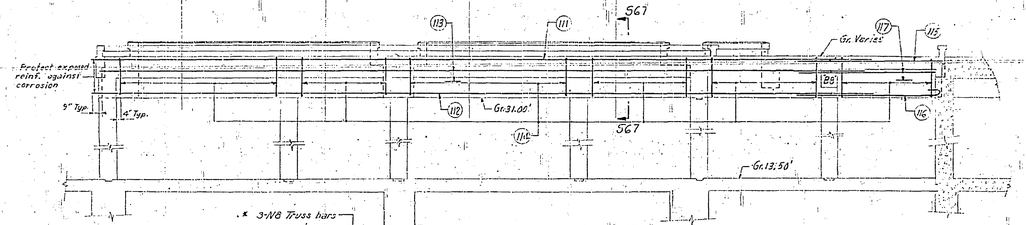



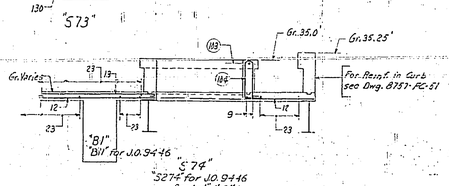



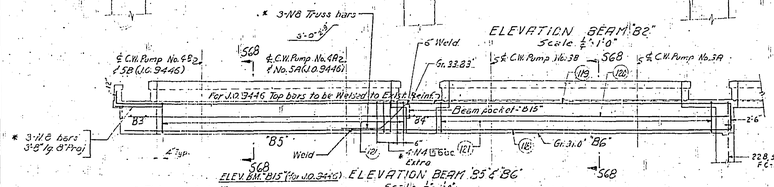



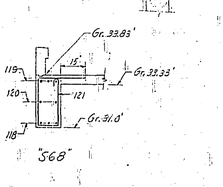



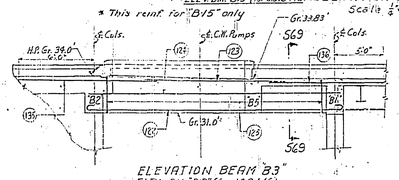



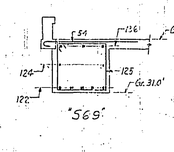



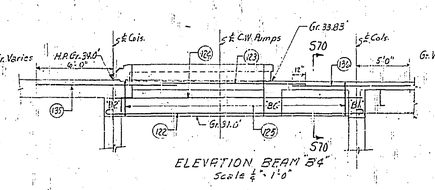



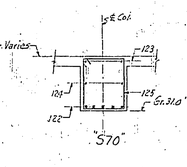




## REINFORCEMENT SCHEDULE

| Group | No | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 100 | | #8 | | 9" o.c. | |
| 101 | | #7 | | 9" o.c. | |
| 102 | 2 | #6 | | | Cont. |
| 103 | 1 | #8 | | | Cont. |
| 104 | | #5 | | 18" o.c. | #5's Typ. around Openg. |
| 105 | 4 | #8 | | | #5's Typ. all Cols. except Size 38" bars at Horizontal Terminals "B1" |
| 106 | | #8 | | 15" o.c. | Typ. all Cols. |
| 107 | 3 | #9 | | | Bot. Cont. bar on F.F. & Weld to Flange o. of Steel Bm. |
| 108 | 3 | #9 | | | Top |
| 109 | 2 | #6 | | | Sta. Steel Col. bars on F.F. at Steel Bms. |
| 110 | | #5 | | 12" o.c. | |
| 111 | 3 | #7 | | | Top |
| 112 | 3 | #7 | | | Bot. |
| 113 | 4 | #8 | | | 2 ea. face |
| 114 | | #5 | | 12" o.c. | |
| 115 | 3 | #6 | | | Top |
| 116 | 3 | #7 | | | Bot. |
| 117 | 4 | #8 | | | 2 ea. face |
| 118 | 3 | #7 | | | Bot. |
| 119 | 3 | #7 | | | Top |
| 120 | 2 | #8 | | | 1 ea. face |
| 121 | | #5 | | 2'-0" o.c. | |
| 122 | 5 | #7 | | | Bot. |
| 123 | 2 | #8 | | | Top |
| 124 | 2 | #8 | | | 1 ea. face |
| 125 | | #5 | | 2'-0" o.c. | |
| 126 | 4 | #8 | | | Bot. |
| 127 | 3 | #8 | | | Top |
| 128 | | #8 | | 6" o.c. | |
| 129 | | #8 | | 12" o.c. | |
| 130 | 4 | #8 | | | Bot. |
| 131 | 3 | #8 | | | Top |
| 132 | | #8 | | See "B8" | |
| 133 | 8 | #6 | | | Reinforce Pier Nose in Piers |
| 134 | 3 | #10 | | | West Face of Col. Only to Gr. 13.50'; Lap with (131) Bars as Shown |
| 135 | 4 | #9 | 11'-0" | | Top |
| 136 | 3 | #9 | 10'-0" | | Top |

Notes.
Scale 3/8" = 1'-0" except as noted.
Reinf. to be deformed bars & lapped 30 diams. where cont.
Dimensions to reinf. are clear distances from face of Conc.
For Plan & details not shown see Dwg. 8757-FC-101 & FC-103
SECTIONS NUMBERED 200 & ABOVE ARE FOR J.O. 9446

ALL REINF. BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A305

APPROVED Ernest A. Porterfield
CERTIFIED PROFESSIONAL ENGINEER, NO. 5128
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| 3 | DATE OF SIGNATURES / FIELD CHANGES | 11-6-56 / E.W.C. | 11-5-56 / E.L. | 11-6-56 / L.H.C. | |
| 2 | DATE OF SIGNATURES / ISSUED FOR UNIT 100 E. J.O. 9446 | 3-22-56 / W.H. | 3-19-56 / R.W.C. | 3-21-56 / E.L. | L.H.C. |
| 1 | DATE OF SIGNATURES / SECT. SEC. CHANGED SHEET 5TH ADDED | 11-12-53 / E.W. | 10-21-53 / R.W.C. | 12-17-53 / E.L. | L.H.C. |
| | DATE OF SIGNATURES | 7-7-53 | 7-7-52 | 7-13-53 | 7-14-53 |
| | | W.H. | Ford | E.L. | L.H.C. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL HOUSE - REINFORCING - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JUNE 10, 1953

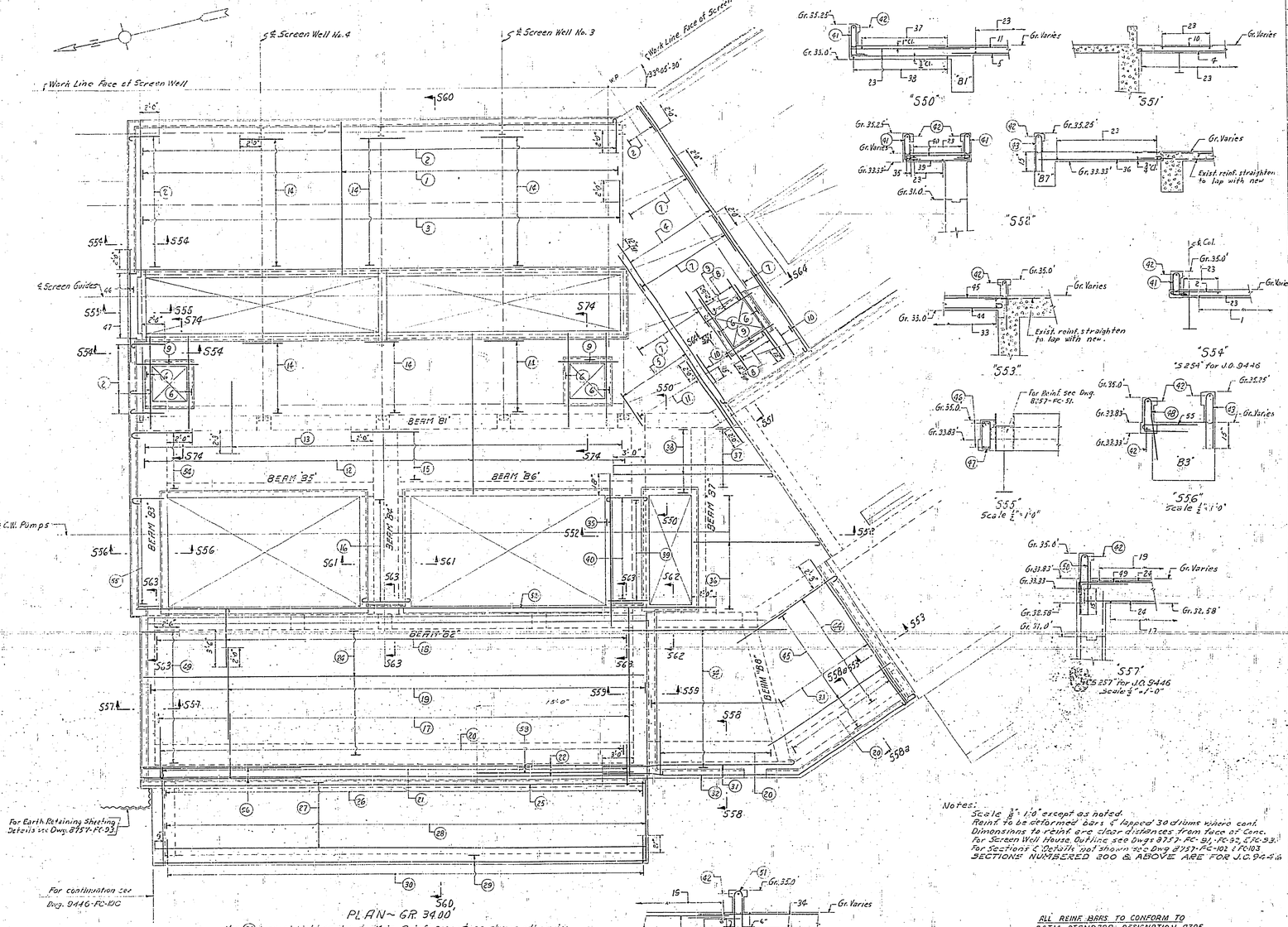
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-7-53 | 7-7-52 | 7-13-53 | 7-14-53 |
| W.H. | Ford | E.L. | L.H.C. |

8757-FC-102

R.C. 59278

Chkd. A.C. 11-5-56 ③ Chkd. M.P.C. 1-13-53 ② Chkd. 11-5-53 A.W. ①

Designed by R. Zaske / Drawn by F.N. Johnson
Des. Chk'd by J. Rosecke / Chk'd by A.M. Lewis




## REINFORCEMENT SCHEDULE

| Group | No | Size | Length | Spacing | Remarks |
|---|---|---|---|---|---|
| 1 | | 1 1/8 | | 12" o.c. | Bot. |
| 2 | | 1 1/8 | | 8" o.c. | Top Cut & hook at opng. |
| 3 | | 1 1/8 | 4'-0" | 8" o.c. | Top |
| 4 | | 1 1/8 | Varies | 7" o.c. | Bot. Cut at opng. |
| 5 | | 1 1/8 | Varies | 7" o.c. | Bot. |
| 6 | 4 | 8 #9 | | | 2-Top & 2-Bot. Extra |
| 7 | | 1 1/8 | 4'-0" | 7" o.c. | Top |
| 8 | | 1 1/8 | | 7" o.c. | Top |
| 9 | 2 | 1 1/8 | 5'-6" | | Bot. Extra |
| 10 | | 1 1/8 | 3'-3" | 7" o.c. | Top |
| 11 | | 1 1/8 | Varies | 7" o.c. | Top |
| 12 | | 1 1/8 | | 12" o.c. | Bot. Cut at opng. |
| 13 | | 1 1/8 | 7'-0" | 8" o.c. | Top Cut & hook at opng's |
| 14 | | 1 1/8 | 6'-0" | 18" o.c. | Top |
| 15 | | 1 1/8 | 6'-6" | 18" o.c. | Top |
| 16 | | 1 1/8 | | 12" o.c. | Top |
| 17 | | 1 3/8 | | 6" o.c. | Bot. |
| 18 | | 1 3/8 | | 9" o.c. | Top |
| 19 | | 1 3/8 | 9'0" | 12" o.c. | Top |
| 20 | | 8 #3 | | 12" o.c. | |
| 21 | | 8 #9 | | 12" o.c. | See "560" |
| 22 | 3 | 8 #9 | | | Bot. See "560" Proj. 9" beyond North End |
| 23 | | 8 #9 | | 12" o.c. | Top & Bot. at Right Angles to Main Reinf. |
| 24 | | 1 3/8 | | 12" o.c. | Top & Bot. |
| 25 | 2 | 2 #10 | | | See "560" Project 9" beyond North End |
| 26 | | 8 #9 | | 12" o.c. | |
| 27 | | 1 1/8 | | 12" o.c. | Bot. Project 9" beyond North End |
| 28 | | 1 1/8 | | 12" o.c. | Bot. |
| 29 | 4 | 2 1/8 | | | 2 Top, 2 Bot. Proj 9" beyond North End |
| 30 | | 1 1/8 | | 12" o.c. | See "560" |
| 31 | 1 | 1 #5 | | | |
| 32 | 2 | 1 #6 | | | |
| 33 | | 1 #3 | | 10" o.c. | Top & Bot. Splay at Turn. Cut Check at Opng. See 562 |
| 34 | | 1 #3 | | 10" o.c. | Top & Bot. |
| 35 | 2 | 2 1/8 | 13'-6" | | Bot. Extra. |
| 36 | | 8 #9 | Varies | 6" o.c. | Bot. |
| 37 | | 1 1/8 | Varies | 12" o.c. | Top |
| 38 | | 1 1/8 | Varies | 12" o.c. | Bot. |
| 39 | | 1 1/8 | | 12" o.c. | Bot. |
| 40 | | 1 1/8 | | 12" o.c. | Top |
| 41 | | 1 1/8 | | 18" o.c. | See |
| 42 | 1 | 8 #9 | | | Cont. |
| 43 | | 1 1/8 | | 18" o.c. | |
| 44 | | 1 1/8 | | 18" o.c. | Bot. |
| 45 | | 1 1/8 | | 18" o.c. | Top |
| 46 | 4 | 2 1/8 | 11'0" | | 2 Top & 2 Bot. See "555." |
| 47 | | 1 1/8 | | 12" o.c. | See "555" |
| 48 | | 1 1/8 | | 15" o.c. | |
| 49 | | 8 #9 | | 8" o.c. | Top Reinf. |
| 50 | | 1 1/8 | | 18" o.c. | |
| 51 | | 1 1/8 | | 12" o.c. | |
| 52 | 2 | 1 #3 | | | 1 Top, 1 Bot. |
| 53 | 3 | 1 #5 | | | Top Lap with (51) & (52) bars |
| 54 | | 1 #3 | | 12" o.c. | Top |
| 55 | | 1 #3 | | 12" o.c. | Top |
| 56 | 4 | 1 #3 | 15'-0" | | Place 2 pcs. (Gr. 31.50) 12" o.c. 8'-9" Project 9" beyond North End. |

Notes:
Scale 1/8" = 1'-0" except as noted.
Reinf. to be deformed bars & lapped 30 diams where cont.
Dimensions to reinf are clear distances from face of Conc.
For Screen Well House Outline see Dwgs 8757-FC-91, FC-92, FC-93.
For Sections & Details not shown see Dwg 8757-FC-102 & FC-103
SECTIONS NUMBERED 200 & ABOVE ARE FOR J.O. 9446

ALL REINF BARS TO CONFORM TO A.S.T.M. STANDARD DESIGNATION A305

APPROVED Ernest A. Grunder
CERTIFIED PROFESSIONAL ENGINEER, NO. 988
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | | | | | |
| 3 | DATE OF SIGNATURES / ISSUED FOR UNIT NO. 5 J.O. 9446 | 3-19-53 | 3-24-53 | 3-24-53 | 3-25-53 |
| 2 | DATE OF SIGNATURES / CONT. GRADE, CHOR. CAPACITY, SPCT. PTS. ADDED | 10-13-53 | 10-14-53 | 12-17-53 | 12-17-53 |
| 1 | DATE OF SIGNATURES / EXISTING PIPING & BANDING EQ. EXH. J.O. NOTE #10825 | 5-7-53 | 5-8-53 | 5-10-53 | 5-10-53 |
| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL HOUSE - REINFORCING - SHEET 1

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
JUNE 10, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 7-7-53 | 7-7-53 | 7-15-53 | 7-16-53 |
| | Patt. | E.I. | |

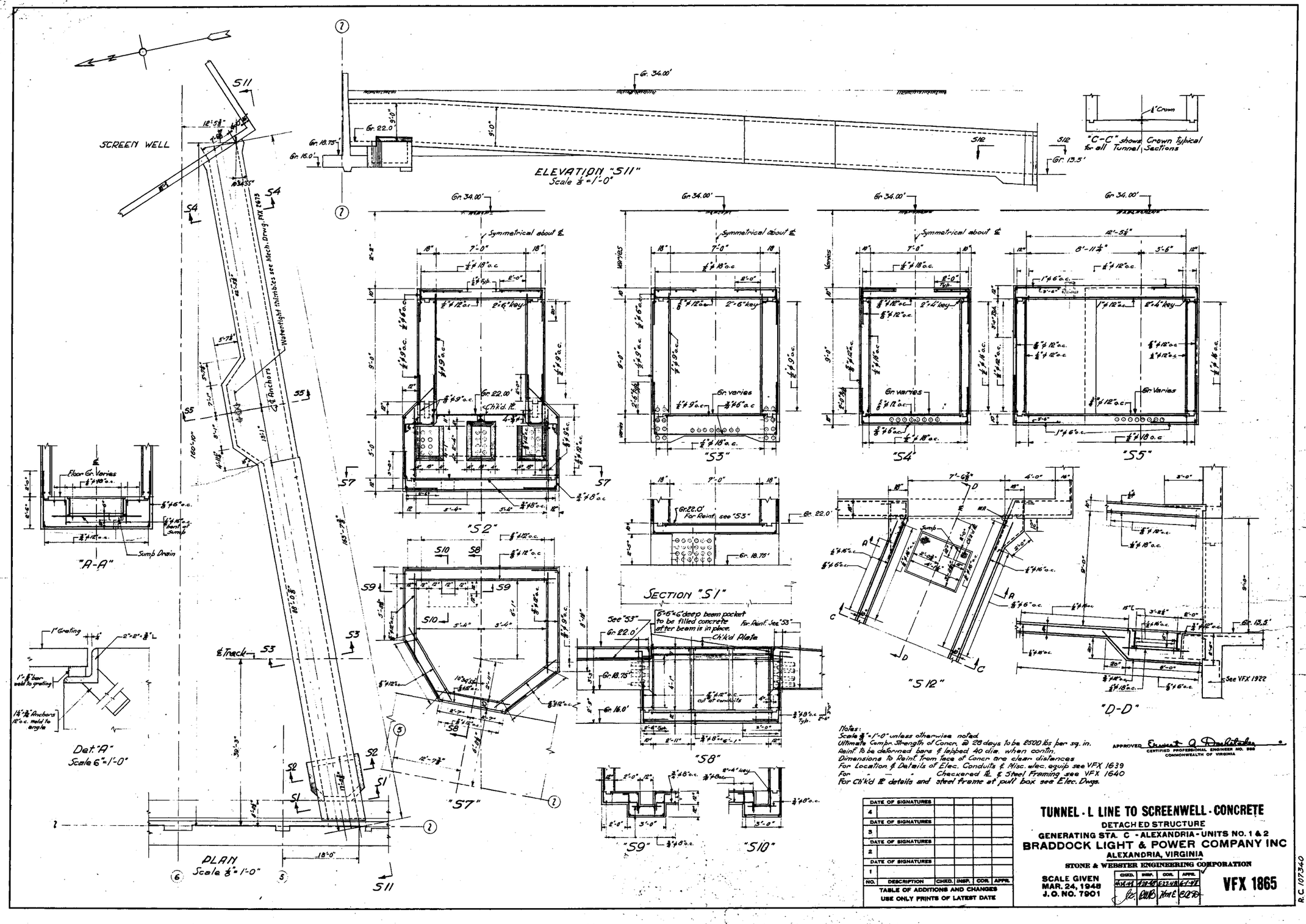
8757-FC-101

Designed by R. Zachey Drawn by F.N. Johnson
Des. Chk'd by J. Rogerson Chk'd by J.M.

(3) Chkd. P.I.P.C. 2-15-54
(2) Chkd 11-5-53 Q.W.
(1) Chkd 11-13-53

Engineer's Print

D.C. 59277




Notes:
Scale 3/8"=1'-0" unless otherwise noted.
Ultimate Compr. Strength of Concr. @ 28 days to be 2500 lbs per sq. in.
Reinf. to be deformed bars & lapped 40 dia. when contin.
Dimensions to Reinf. from face of Concr. are clear distances
For Location & Details of Elec. Conduits & Misc. elec. equip see VFX 1639
For " " " Checkered ℙ & Steel Framing see VFX 1640
For Ch'k'd ℙ details and steel frame at pull box see Elec. Dwgs.

APPROVED Ernest A. Dreitzler
CERTIFIED PROFESSIONAL ENGINEER NO. 988
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# TUNNEL - L LINE TO SCREENWELL - CONCRETE

DETACHED STRUCTURE

GENERATING STA. C - ALEXANDRIA - UNITS NO. 1 & 2

BRADDOCK LIGHT & POWER COMPANY INC

ALEXANDRIA, VIRGINIA

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAR. 24, 1948
J. O. NO. 7901

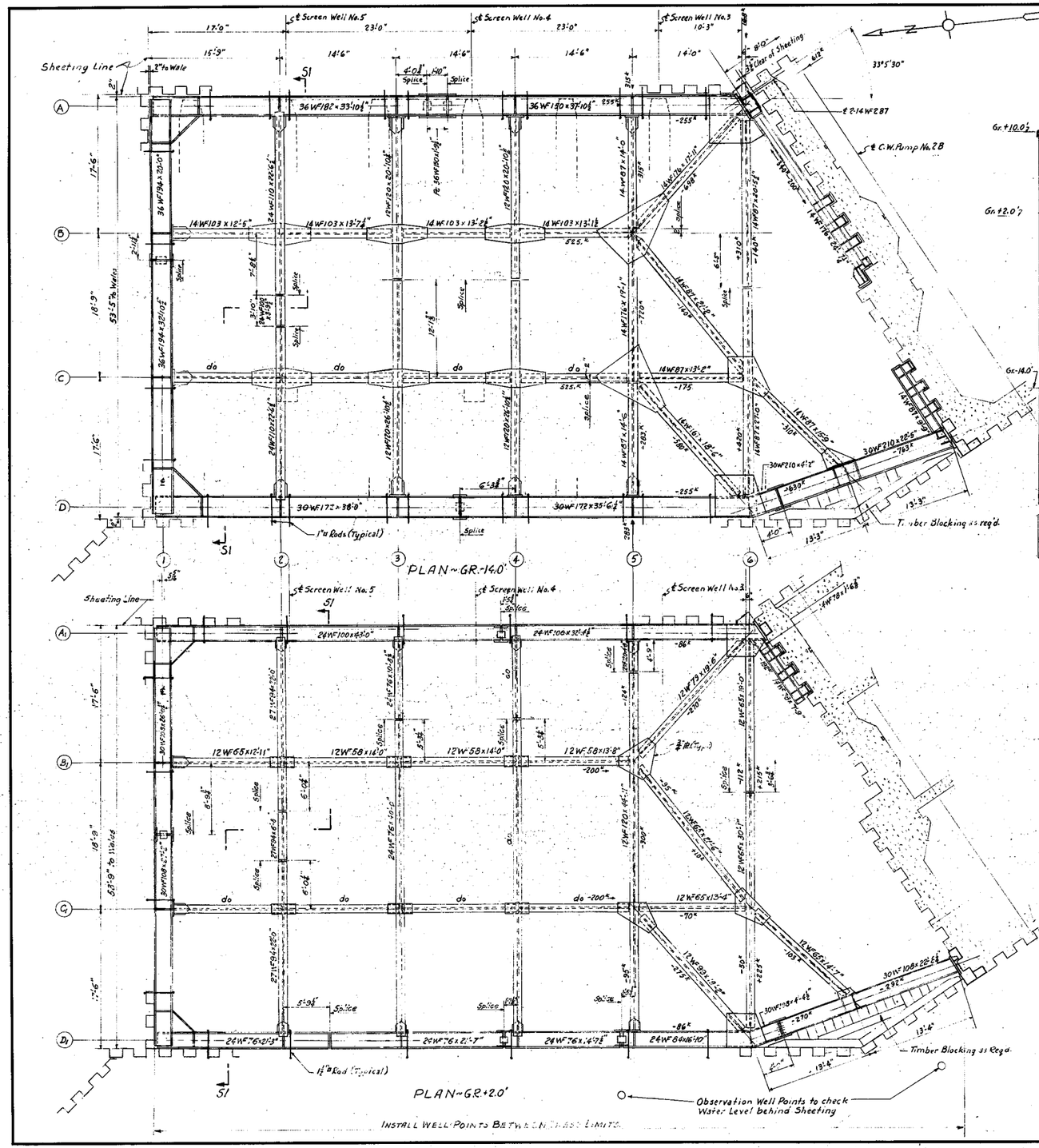
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 4-28-48 | 4-28-48 | 5-27-48 | 6-1-48 |

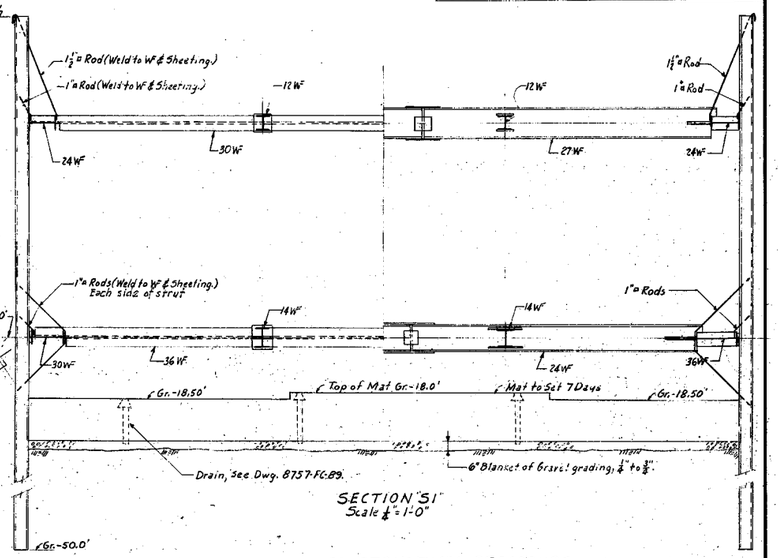
VFX 1865

R.C. 107340

Designed by J. Medick Drawn by E. Manomaitis
Des. Ch'k'd by L. S. Reiniger Ch'k'd by R. Olney

P:\cadd\1108 nrg pot rlv\recd\bldg tfis\tfis genl-exterior.dwg, Model, 8/6/2014 5:58:07 PM, JOConnor




SECTION "S1"
Scale ¼" = 1'-0"

## DRAWING SCHEDULE

| DRAWING NO. | DETAILS | REMARKS |
|---|---|---|
| 8757-FC-77 | Gr.-14.0' | Framing Details |
| 8757-FC-78 | Gr.-14.0' | Truss Details |
| 8757-FC-96 | Gr.-14.0' | " " |
| 8757-FC-97 | Gr.+2.0' | " " |
| 8757-FC-98 | Gr.+2.0' | " " |
| 8757-FC-99 | Gr.+2.0' | Framing Details |
| 8757-FC-100 | Gr.-14.0' & Gr.+2.0' | Vertical Truss Dets. |

## CONSTRUCTION PROCEDURE

1. Excavate in back of existing Bulkhead enough to expose tie rods & relieve tension. Excavate Southeast Corner of Bulkhead to a slope sufficiently flat to prevent sloughing of earth into existing Screenwell Intake Channel when bulkhead is removed.
2. Cut Tie Rods at existing Screenwell, leaving 2'-0" length protruding for later splicing. Remove Bulkhead wales & pull sheeting.
3. Excavate Cofferdam Area to Gr.+5.0', leaving slope at Northwest corner of existing Pump No. to support existing C.W. Pipes.
4. Assemble both Frames & drive Sheeting, using Top Frame as a Template.
5. Excavate & dewater Inside Cofferdam to Gr.-3.0'. Lower both Frames & install Top Frame at Gr.+2.0'. (See special instructions for blocking & wedging between Frames & Sheeting.
6. Drive Temporary Sheeting at Northwest Corner of existing Pump No. to protect existing C.W. Pipes. Complete excavation on bankside of Cofferdam according to Excavation Plan.
7. Install Well Points as required along West Side of Cofferdam, between limits shown on Plan. Draw Water Level down to Gr.-12.0'
8. Excavate & dewater to Gr.-16.0'. Install Bottom Frame at Gr.-14.0'. (See special instructions for blocking & wedging.)
9. Install Vertical Trusses. Excavate & dewater to Gr.-22.0'. Pour Bottom Mat.
10. When Mat has been allowed to set for 7 Days, remove Bottom Frame at Gr.-14.0'. (Well Points may be abandoned at this point.) Remove Vertical Trusses.
11. Pour Concrete to Gr. 0.00' & allow to set for 14 Days.
12. Block Riverside Sheeting against East Wall of Screenwell at Gr.-2.50'. Fill Areas between North Wall of Screenwell & Cofferdam, & between Units No. 2 & 3 up to Gr. 0.00'. Allow water to rise in these Areas up to about Gr. 0.00'
13. Remove Top Frame. Splice & extend Tie Rods to South Wall of Screenwell. Complete Construction.
14. Cut Riverside Face of Cofferdam Sheeting to Gr.-18.5', after Dredging is completed.

Notes:
Scale 3/16" = 1'-0" unless noted otherwise
For Cofferdam Sheeting Details see Dwg. 8757-FC-75.
During excavation, frame members to be protected with timber guards, where necessary.

APPROVED Ernest A. Dachstader
CERTIFIED PROFESSIONAL ENGINEER, NO. 866
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | LINE ⑤ GR.-14.0 CHANGED | 6-10-53 | 6-10-53 | 6-10-53 | 6-10-53 |
| | DATE OF SIGNATURES | 6-1-53 | 6-1-53 | 6-1-53 | 6-1-53 |
| 1 | DRAWING COMPLETED | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 2

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MARCH 11, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-18-53 | 5-18-53 | 5-18-53 | 5-19-53 |

8757-FC-76

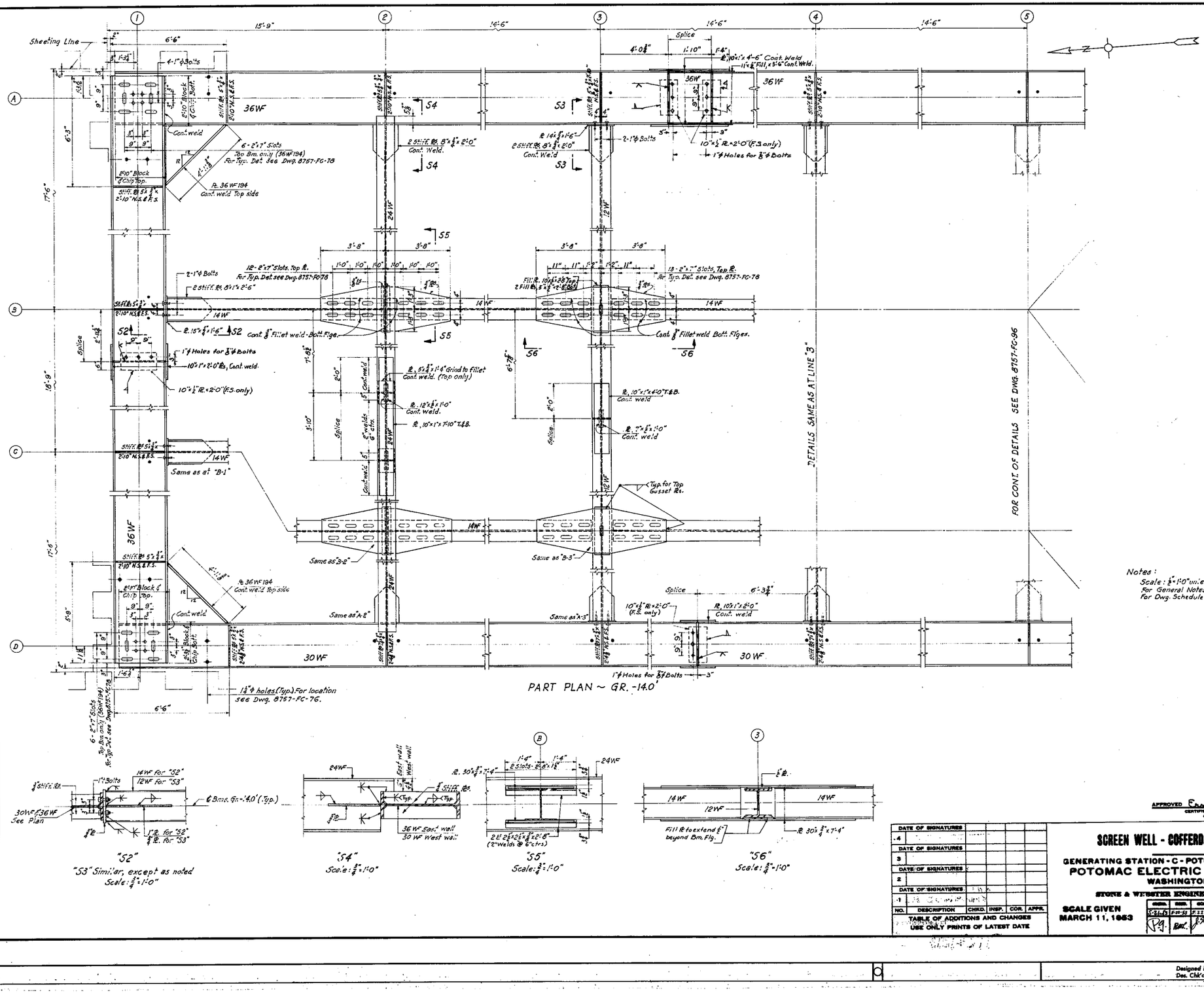
R.C. 50064

Designed by Zagley & Berger Drawn by A. Marsbit
Des. Chk'd by J. Rasciauskas Chk'd by [illegible]

Engineer E. Ireland
Extra Prints
Chg. ①
Chg. ②

F.E.B. 6/10/58

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs genl-exterior.dwg, Model, 8/6/2014 5:58:57 PM, JOConnor




PART PLAN ~ GR. -14.0'




"52"
"53" Similar, except as noted
Scale: ¾"=1'-0"

"54"
Scale: ¾"=1'-0"

"55"
Scale: ¾"=1'-0"

"56"
Scale: ¾"=1'-0"

Notes:
Scale: ¼"=1'-0" unless noted otherwise
For General Notes see Dwg. 8757-FC-78
For Dwg. Schedule see Dwg. 8757-FC-76

APPROVED Ernest A Dunkerton
CERTIFIED PROFESSIONAL ENGINEER, NO. 999
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHK'D. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 3

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MARCH 11, 1953

| DESIGN. | DRWN. | CHK. | APPR. |
|---|---|---|---|
| 5-21-53 | 5-22-53 | 5-22-53 | 5-22-53 |
| RJG | RMC | JDB | EAD |

8757-FC-77

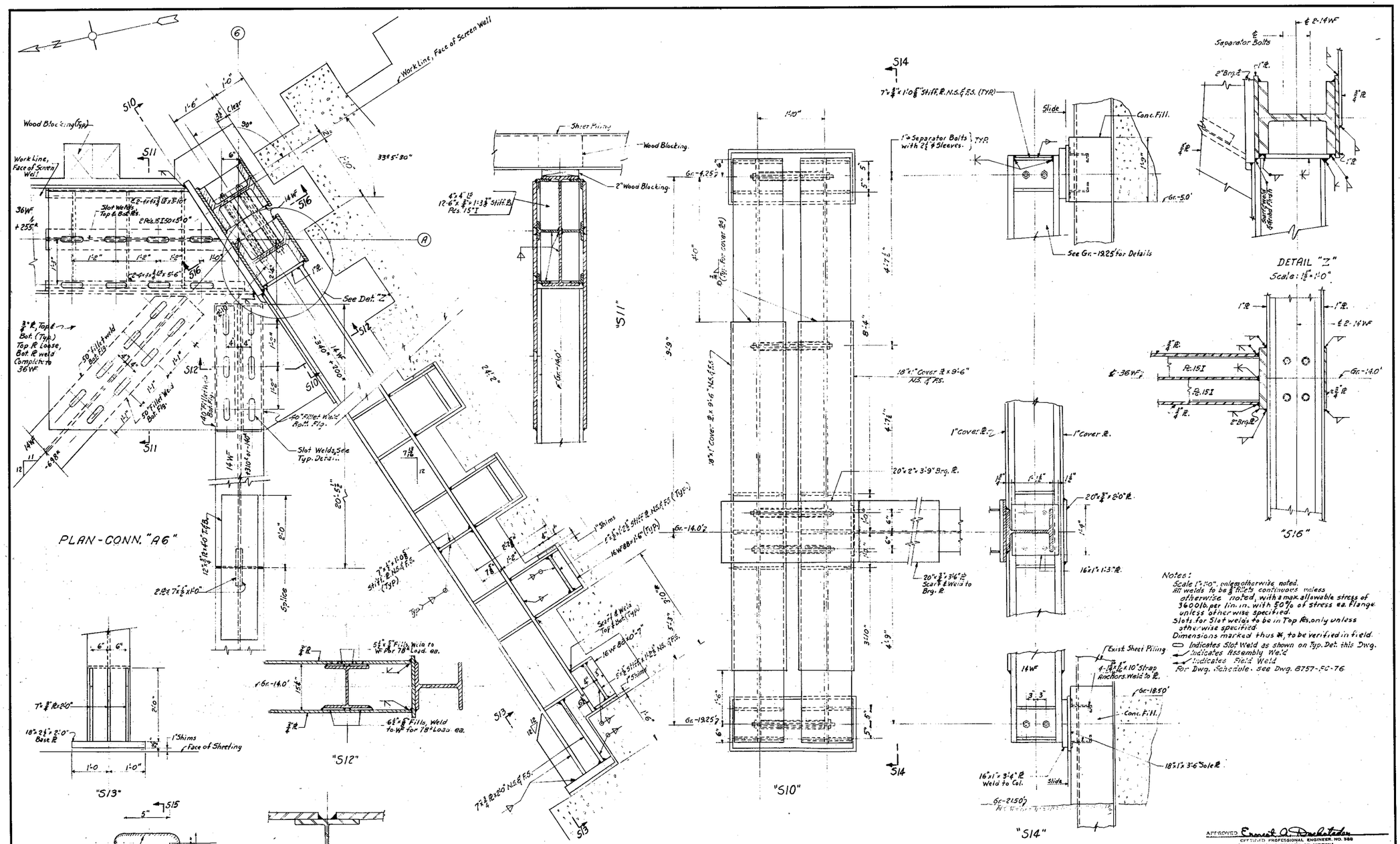
Designed by A. Zackey & K. Berger Drawn by A. Treinys
Des. Ch'd by S. Rasciewski Ch'd by J.D. Barber

P.C. 30063

Extra Prints

Engineer's Archive

P:\cadd\11108 nrg pot rlv\recd\bldg tifs\tifs genl=exterior.dwg, Model, 8/6/2014 5:59:29 PM, JOConnor




APPROVED Ernest A. Dashtedar
CERTIFIED PROFESSIONAL ENGINEER, NO. 388
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 4

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MARCH 11, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-18-53 | 5-18-53 | 5-18-53 | 5-19-53 |
| P.G. | Rad. | E.I. | EAD |

8757-FC-78

R. C. 50091

Designed by Zaskey & Berger Drawn by A. Marsetts
Des. Chk'd by J. Rasciauskas Chk'd by J.D. Barber

To P. Gordon 5/1

Engineer Extra Prints

P:\cadd\1108 nrg pot riv\recd\bldg tfrs\tfrs genl-exterior.dwg, Model, 8/6/2014 5:59:58 PM, JOConnor

PLAN-CONN. "35"

PLAN CONN. "66"

PLAN CONN. "C5"

PLAN-CONN. "D5"
CONN. "A5" SIMILAR

PLAN-CONN. "D6"

"520"

"521"

"523"
No Scale

"522"

PLAN-CONN. "B5"
Scale ½"=1'-0"

PLAN-CONN. "C5"
Scale ½"=1'-0"

NOTE "A"

Notes:
Scale-Details: 1"=1'-0"
For General Notes see Dwg. 8757-FC-78.
Dimensions marked thus * to be verified in Field.
For Dwg. Schedule see Dwg. 3757-FC-76

Note:
Amount of fillet weld noted Each Side

APPROVED Ernest G. Burbitzer
CERTIFIED PROFESSIONAL ENGINEER, NO. 986
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | 6-16-53 | 6-10-53 | 6-18-53 | 6-18-53 |
| | CONNECTIONS "B5" & "C5" CHANGED | P.A. | Rpt | E.L. | C.A.D. |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 5

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APRIL 24, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-18-53 | 6-18-53 | 6-18-53 | 6-18-53 |
| P.A. | Rpt | E.L. | C.A.D. |

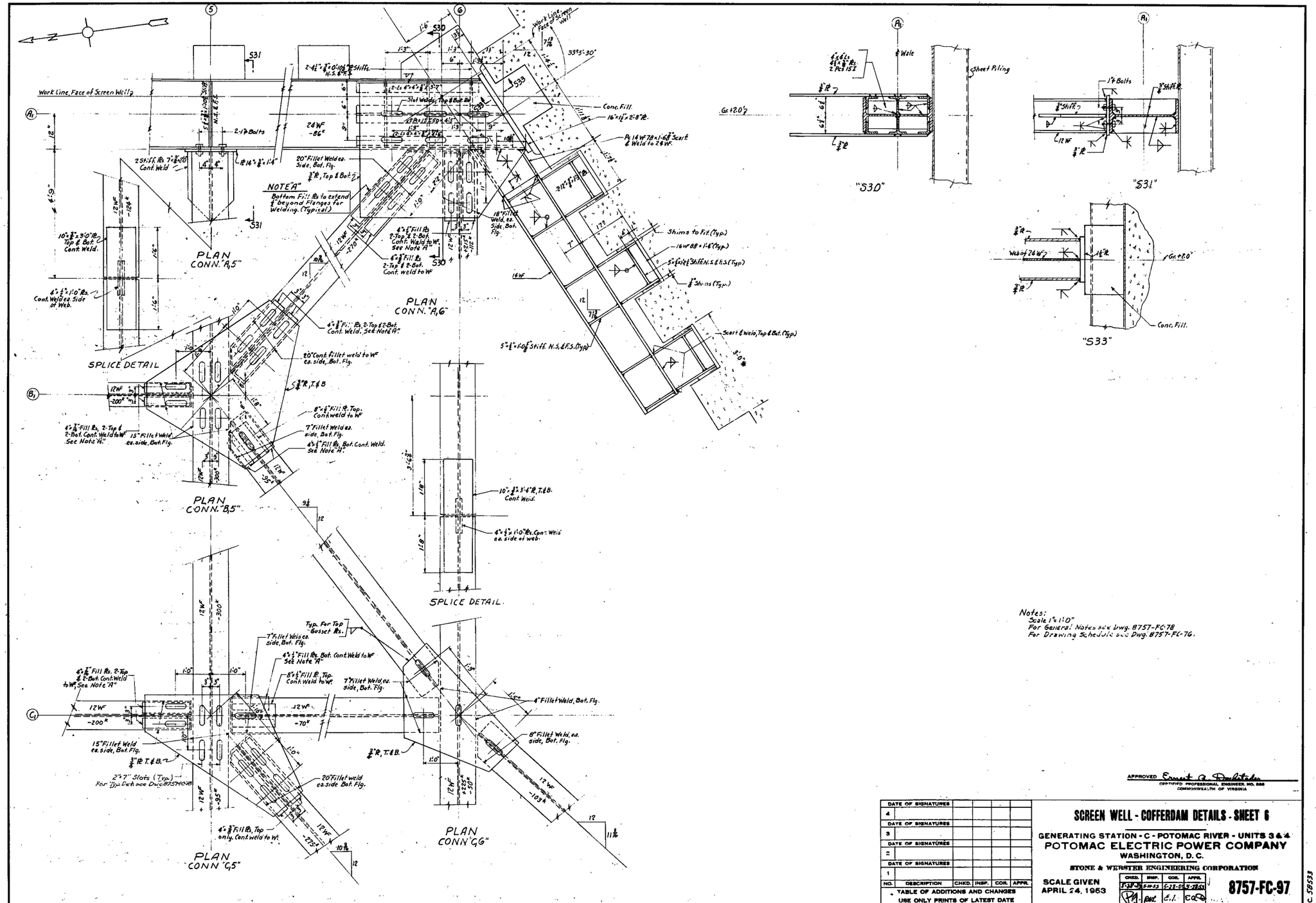
8757-FC-96

R. C. 58532

F.C. 25 6/10/53

Designed by Zaskey & Berman Drawn by A-Morabito
Des. Chk'd by J.R.Zaskey Chk'd by J.D.Barbur

P:\cadd\1108 nrg pot riv\rect\bldg tifs\tifs gen\exterior.dwg, Model, 8/6/2014 6:00:28 PM, JOConnor




Notes:
Scale 1" = 1'-0"
For General Notes see Dwg. 8757-FC-78
For Drawing Schedule see Dwg. 8757-FC-76.

APPROVED Ernest A. Dockstader
CERTIFIED PROFESSIONAL ENGINEER, NO. 588
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 6

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D. C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APRIL 24, 1953

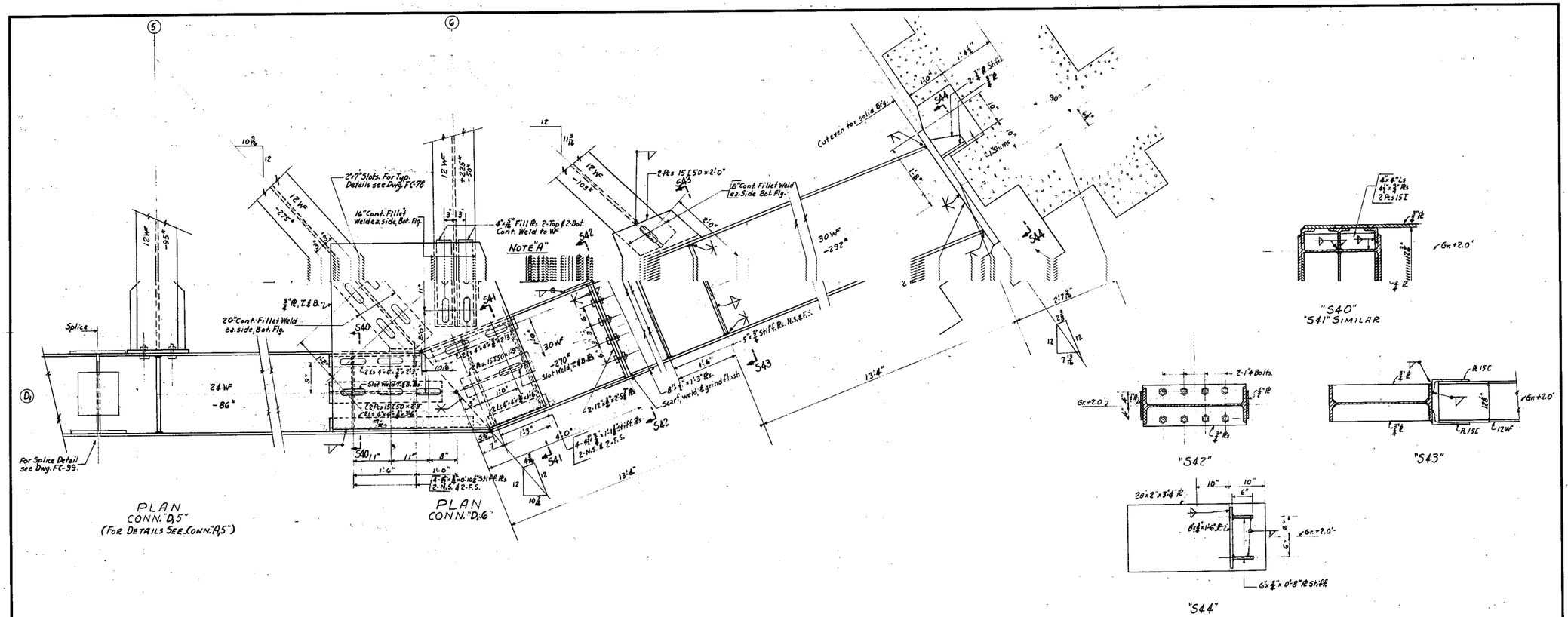
| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-28-53 | 5-28-53 | 5-28-53 | 5-28-53 |
| PJ | RWL | E.I. | EAD |

8757-FC-97

R. C. 58533

Designed by A. Zaskey & E. Eur. Drawn by A. Morabito
Des. Chk'd by J. Rasciauskas Chk'd by J. D. Barber

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs genl-exterior.dwg, Model, 8/6/2014 6:01:02 PM, JOConnor




Notes:
Scale 1"=1'-0"
For General Notes see Dwg. 8757-FC-78.
For Dwg. Schedule see Dwg. 8757-FC-76.

APPROVED Ernest A. Dochtader
CERTIFIED PROFESSIONAL ENGINEER, NO. 986
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 7

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
APRIL 24, 1953

| CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|
| 5-28-53 | 5-28-53 | 5-28-53 | 5-28-53 |
| P.G. | Rel. | E.I. | EAD |

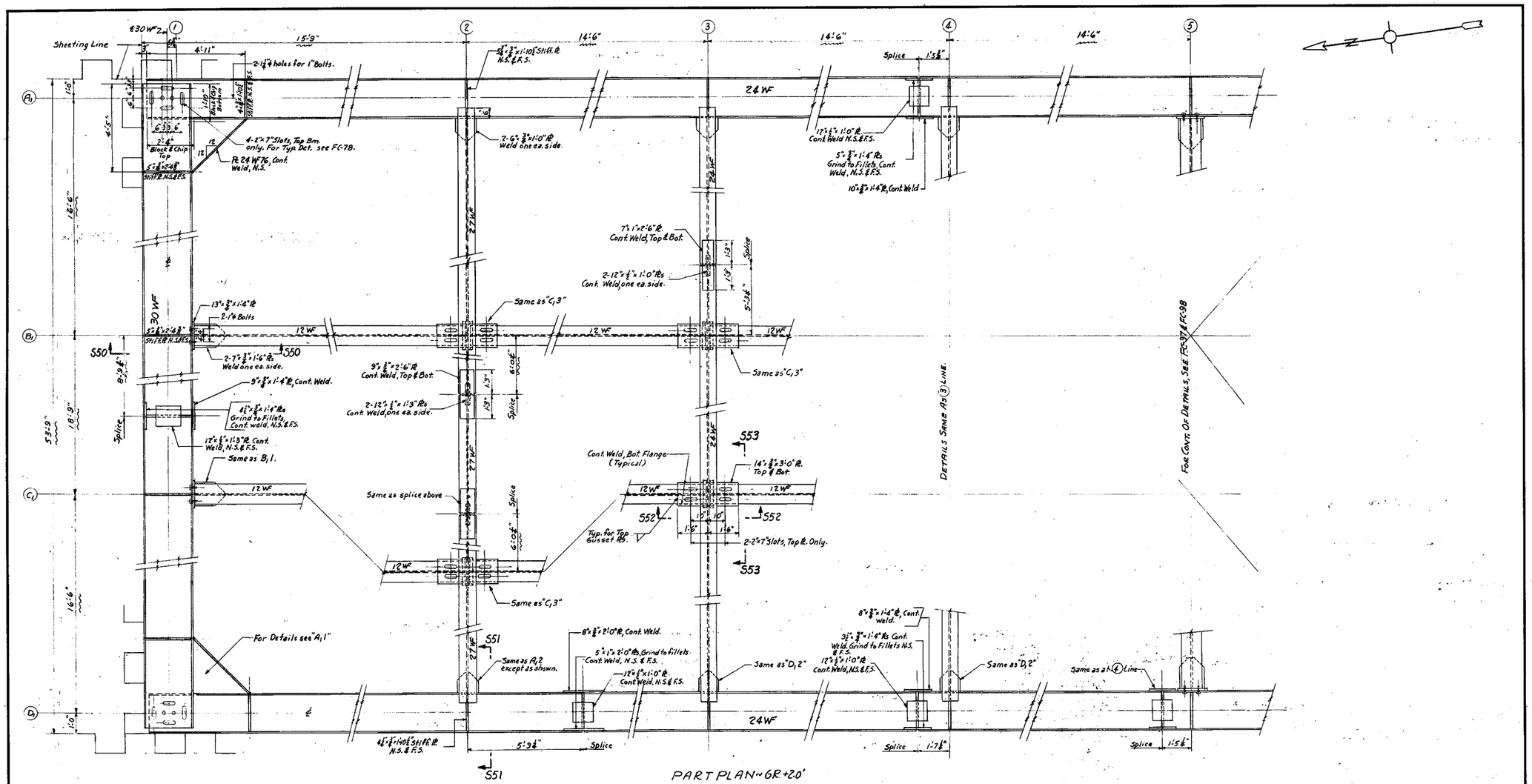
8757-FC-98

R. C. 58534

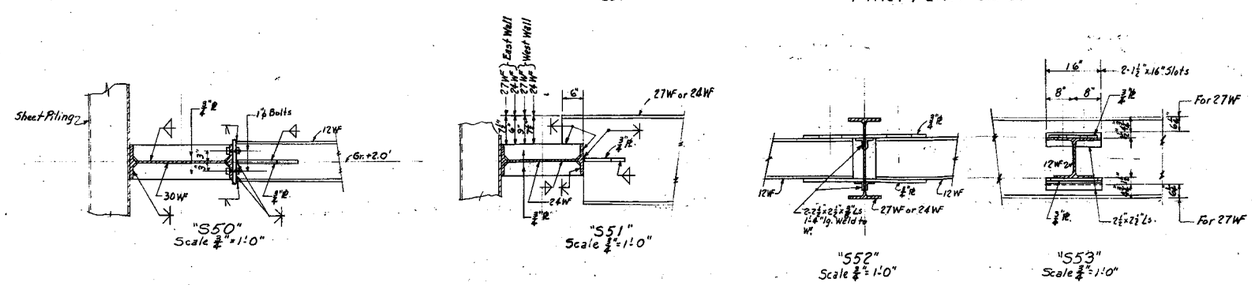
Designed by A. Zaskey & F. Berger Drawn by A. Motabits
Des. Chk'd by J. Kaczkowski Chk'd by J.D. Barber

Engineer Extra Prints

P:\cadd\1108 nrg pot riv\recd\bldg tfs\tfs genl-exterior.dwg, Model, 8/6/2014 6:04:37 PM, JOConnor




PART PLAN ~ GR. +2.0'




Notes:
Scale 1/2" = 1'-0" unless noted otherwise.
For General Notes see Dwg. 8757-FC-78
For Dwg. Schedule see Dwg. 8757-FC-76.

APPROVED Ernest A. Prachtsder
CERTIFIED PROFESSIONAL ENGINEER, NO. 266
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD. | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | DATE OF SIGNATURES | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL - COFFERDAM DETAILS - SHEET 8

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.
STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAY 19, 1953

| DESIGN. | DRAWN. | CHK. | APPR. |
|---|---|---|---|
| 5-28-53 | 5-28-53 | 5-28-53 | 5-28-53 |
| P.G. | Rad. | E.I. | EAP |

8757-FC-99

R. C. 58931

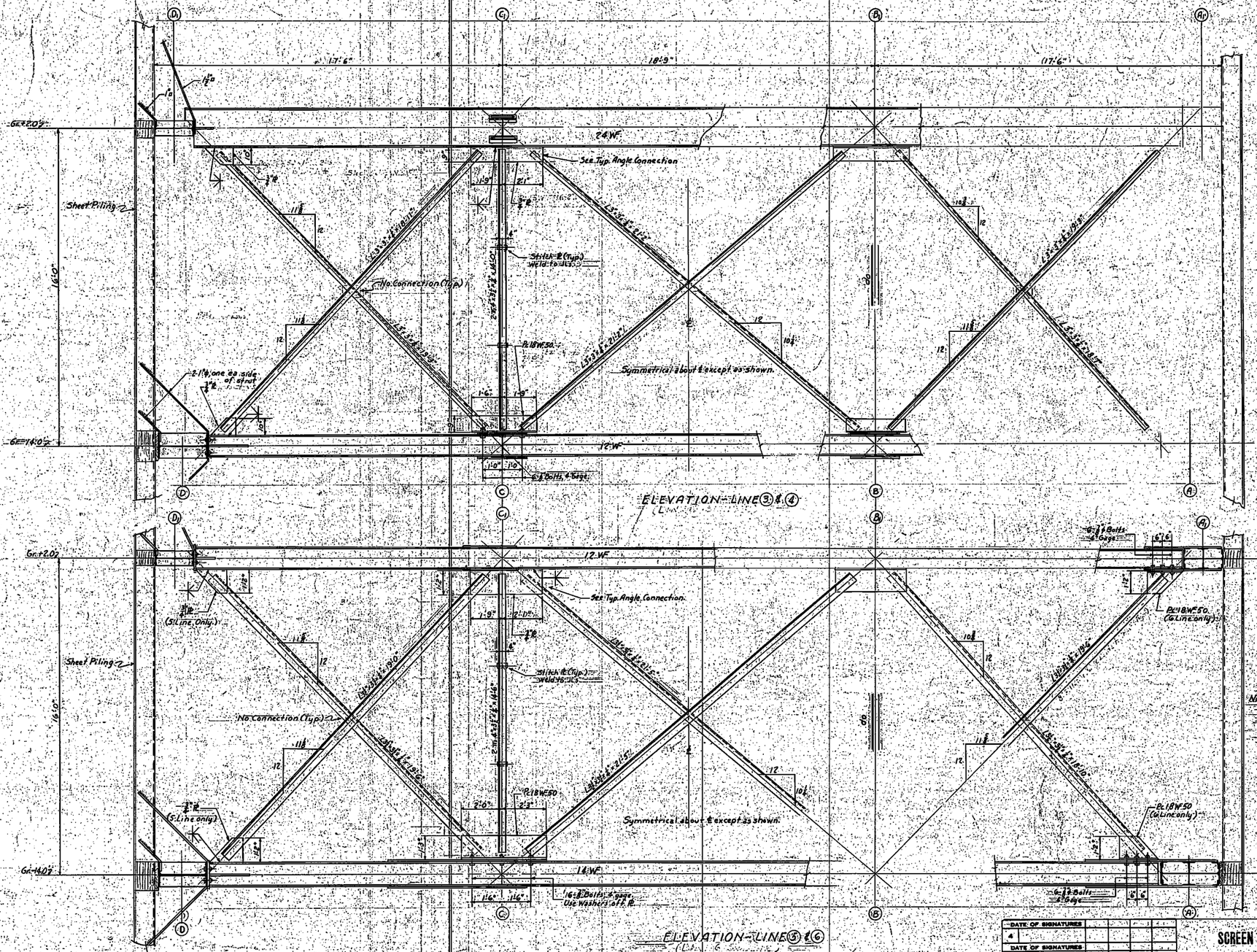
Designed by A. Zaskey & F. Berger Drawn by A. Morabito
Des. Chk'd by J. Rasciauskas Chk'd by J.D. Barber

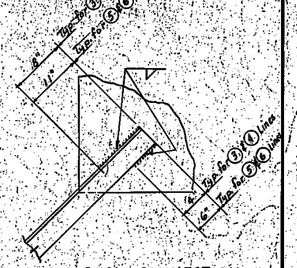
Engineer E. Ireland
Ctrl. Prints
Ctrl. Dwg.

TO P. Gordon Sq.

P:\cadd\1108 nrg pot riv\recd\bldg tifs\tifs genl-exterior.dwg, Model, 8/6/2014 6:05:04 PM, JOConnor

SCANNED
Chalk Point
05240




TYP. ANGLE CONNECTION
No Scale

Notes:
Scale 1"=1'-0" unless noted otherwise.
For General Notes see Dwg. 8757-FC-18
For Dwg. Schedule see Dwg. 8757-FC-16

APPROVED _____
CERTIFIED PROFESSIONAL ENGINEER, NO. 999
COMMONWEALTH OF VIRGINIA

| NO. | DESCRIPTION | CHKD | INSP. | COR. | APPR. |
|---|---|---|---|---|---|
| 5 | DATE OF SIGNATURES | | | | |
| 4 | DATE OF SIGNATURES | | | | |
| 3 | DATE OF SIGNATURES | | | | |
| 2 | DATE OF SIGNATURES | | | | |
| 1 | | | | | |

TABLE OF ADDITIONS AND CHANGES
USE ONLY PRINTS OF LATEST DATE

# SCREEN WELL COFFERDAM DETAILS - SHEET 9

GENERATING STATION - C - POTOMAC RIVER - UNITS 3 & 4
POTOMAC ELECTRIC POWER COMPANY
WASHINGTON, D.C.

STONE & WEBSTER ENGINEERING CORPORATION

SCALE GIVEN
MAY 19, 1953

| DESIGN | DRAW. | CORR. | APPR. |
|---|---|---|---|
| 2-24-53 | 2-27-53 | 3-12-53 | 3-18-53 |
| PQ | BWC | A.L. | CCFB |

8757-FC-100

Designed by A.Szaszkiewicz Drawn by A.Morabito
Des. Ch'd by J.Szaszkiewicz Ch'd by J.O.Barber

P:\cadd\11108 nrg pot rlv\recd\bldg tifs\tifs genl-exterior.dwg, Model, 8/6/2014 6:05:41 PM, JOConnor