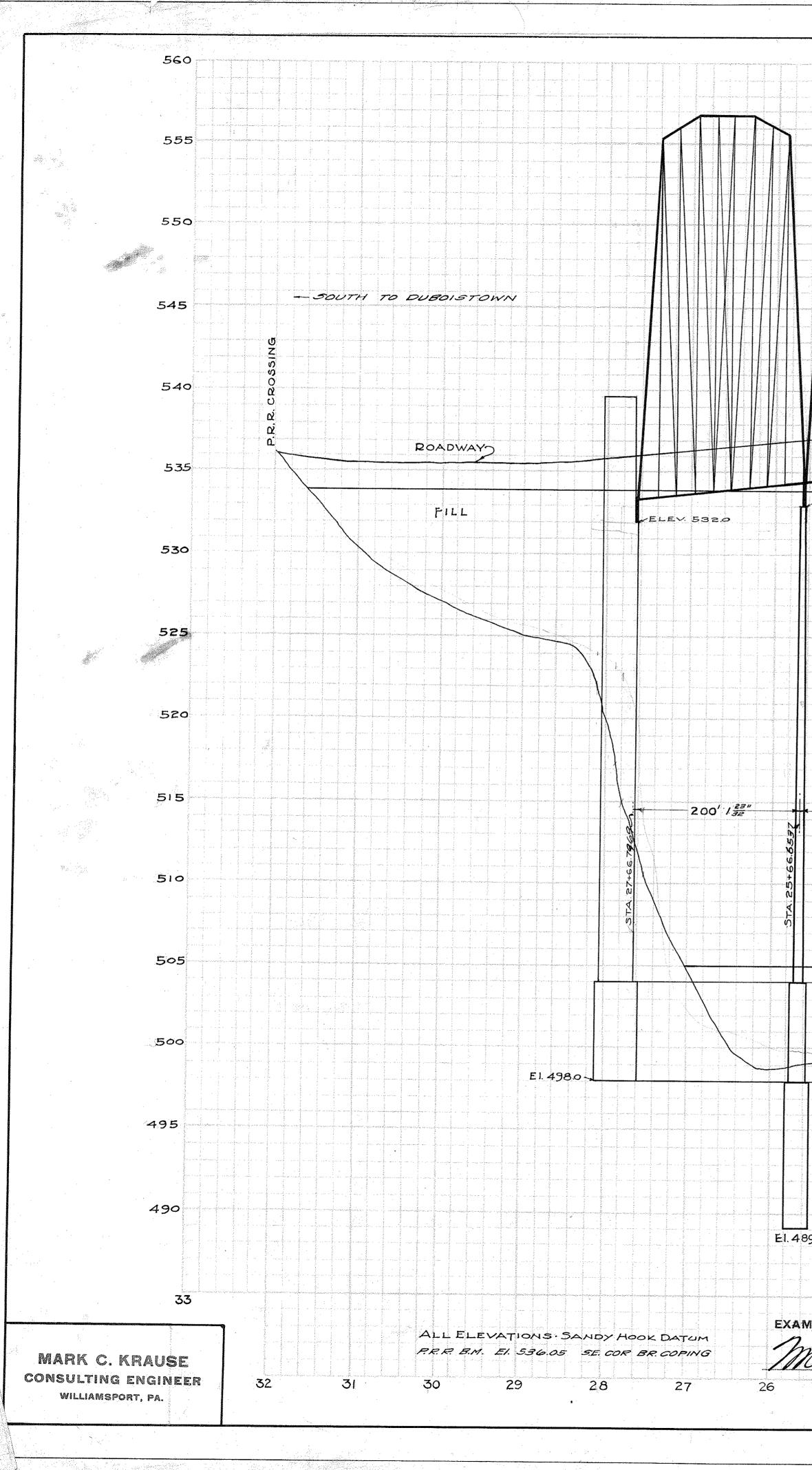


| 그는 이번 것에 가장 같은 것을 하는 것은 것을 수 없다. 이번 것에 가장 가장 가장 가장 가장 가장 나라 나라 가장 가지? | 한 그 같은 그 그는 것이 가지 않는 것이 같이 많이 많이 했다. |
|---|--------------------------------------|
| CONCRETE - CLASS A 14   | CU. YDS.                             |
| CONCRETE - CLASS B 1339   | CU. YDS.                             |
| CONCRETE - CLASS C 4640   | > CU. YDS.                           |
| TOTAL CONCRETE 5993   | 7 CU. YDS.                           |
| REINFORCING STEEL 191,000   | > POUNDS                             |
| REINFORCING FABRIC  | POUNDS                               |
| STRUCTURAL STEEL 2,200,00   | 00 POUNDS                            |
| PAVEMENT W.B.Floor 3,175  | SQ, YDS,                             |
| WATERPROOFING   | SQ. YDS.                             |
| ELECTRIC CONDUIT 1,637  | LIN. FT.                             |
| LAMP STANDARDS  | 10                                   |
| EXCAVATION 4,910  | CU. YDS.                             |
| FILC  | CU. YDS.                             |
|   |                                      |



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|                 |           |   |  | <b>6</b>  |   | S<br>12  |  |
| LOW WATER       | ELEV. 5   | 05.00   |  |           |   |  |  |
|                 |           | 04.00   |  |           |   |  |  |
|                 |           |   |  |           |   |  |  |
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|                 | ELEV.     | 498.00 RIV  | VER BOTTO                                    |           |   |  |  |
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| -89.0           | El. 488.0 |   |  |           |   |  |  |
|                 |           | El.487.0  |  | El. 487.0 |   | El.488.0   |  |
|                 |           | Pro   | FILE OF B                                    | RIDGE     |   |  |  |
| MINED & APPROVE |           |   | NTAL SCALE<br>AL SCALE : 1"                  |           |   |  |  |
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| 25 24           |           | 22  | versen en e | 20        | 19                                      | 18 17  | 16<br>• 2 of 12                          |
|                 |           |   |  |           | She                                     | et No  | . 2 of 12                                |
|                 |           |   |  |           |   |  |  |
|                 |           |   |  |           |   |  |  |

& PINS TO EXTREME BOTTOM OF METAL 19 7"

HIGH

CENTER

ELEV. 534.0

ELEV. 533.0

ROAD

BOTTOM

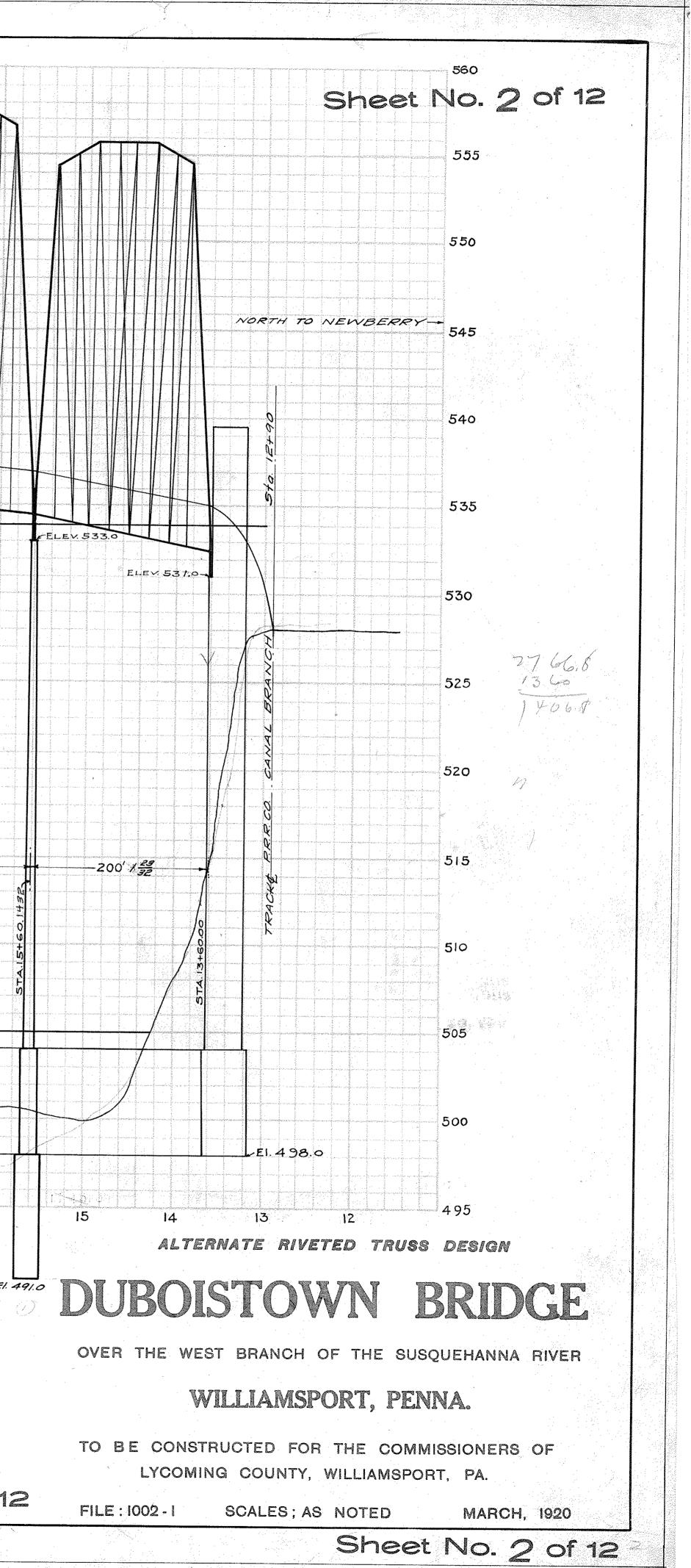
FLOOD 1889 ELEV. 534.0 ELEM. 535.0

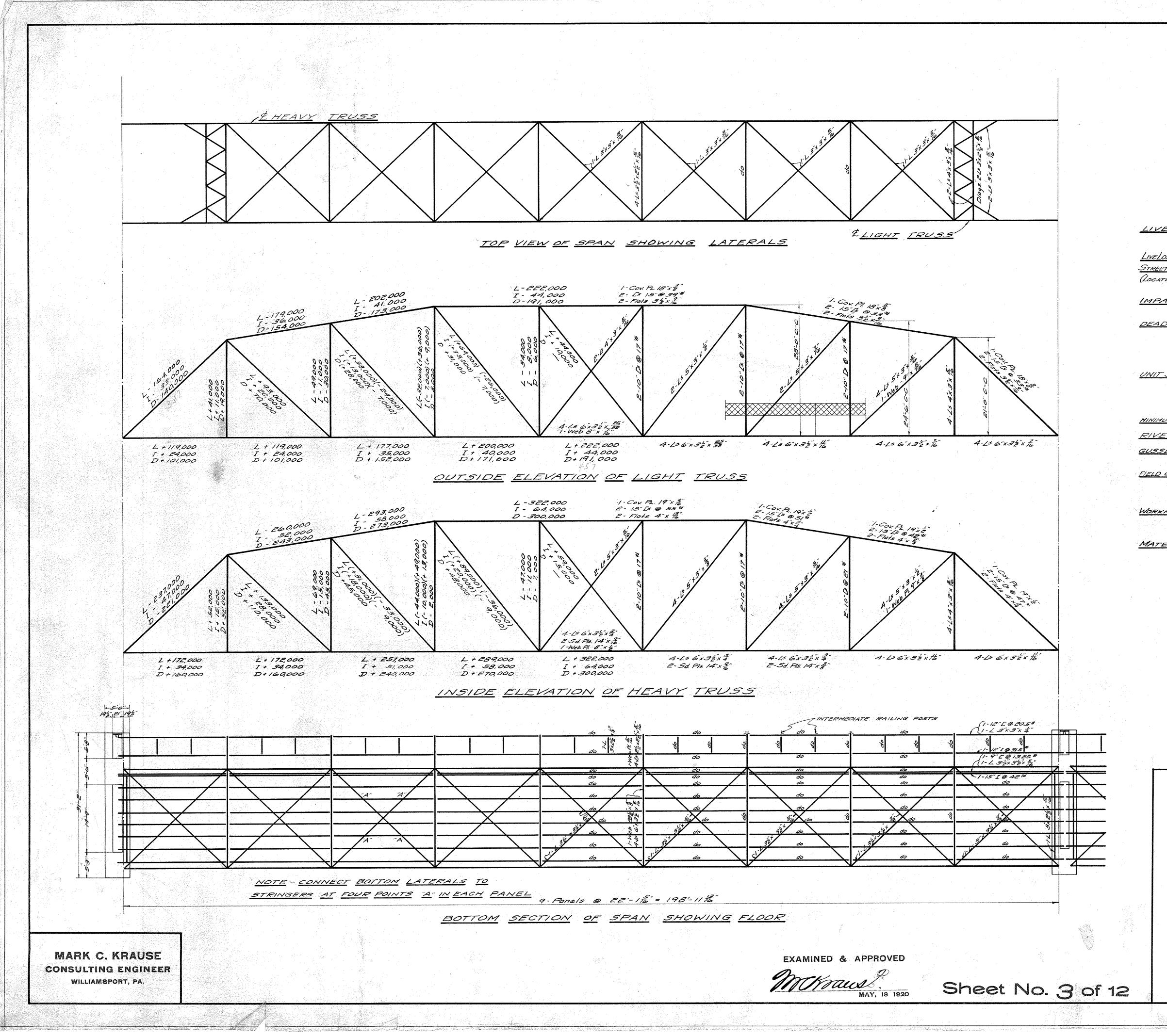
WATER 1916 ELEV. 521.20

ELEV. 535.0

SHORD-

ELEV. 534.0





| Shaat   | No. 3 of 12  |
|---|--|
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|   |  |
| SPECIFICATIONS  |  |
|   | 2'0"   |
| LOADS (1-20 TON TRUCK, AXLE LOADS   | <u>~ 0</u>   |
|   |  |
| <u>ID FOR FUTURE</u><br>CAR TRACK 55 20.0' 55 12.0' 55 20.0' 55   |  |
| AS SHOWN - + + + + + + + + + + + + + + + + + +  | BETHER   |
| CT 300+L×L.L. STRESS WHERE "L" = LOADED LENGTH  | 1월 17일은 전문화·2012년 1월 1일에 대한 것이라. 1월 1일에 1월 1일에 대한 것이라고 있는 것이다. |
| TIMBER FLOOR & CONC. SIDEWALK COMPLETE 90<br>LOAD STEEL, INCLUDING RAILING ETC. 185   | 60 <i>* PER FT.</i><br>1 <u>0</u> *                            |
| TOTAL (61% TO HEAVY TRUSS, 39% TO LIGHT TRUSS) 28   |  |
| (TENSION I <b>700</b> 0 <sup>*</sup> PER SQ.IN. ON NET SEN<br>COMPRESSION 17000-75 <sup>†</sup> R L = UNSUPPORT<br>R = LEAST RADIU. | ED LENGTH IN INCHES  |
| TRESSES SHEAR SHOP RIVETS & PINS  | 見ておかかななななながない。 かんだい ないがん かんしょう しょうしょう たいしょう しんせい かんした したくしょう   |
| 그는 그는 것 같은 것 같  | 8,000 " " "<br>2,000 " " "<br>                                 |
| L MASONRY   | 600 PER SQ. M.   |
| <u>1 METAL</u> <sup>1</sup> <sup>2</sup> THICK EXCEPT FOR RAILING & FASCIAS   |  |
| T PLATES TO THE FOR HEAVY TRUSS, STHE FOR LIGHT T   | RUSS   |
| ALL HOLES FOR FIELD CONNECTIONS (EXCE   | PT BRACING & RAILING)  |
| ONNECTIONS TO BE DRILLED TO IRON TEMPLET, EITHER F.   | ROM THE SOLID  |
| CHARACTER AND METHOD OF WORK MANSHIP  | · · · · · · · · · · · · · · · · · · ·                          |
| ANSHIP DRAWING) SHALL BE GOVERNED BY C<br>SPECIFICATIONS FOR HIGHWAY BRIDGE   | OOPERS   |
| ション・ション 「「「「「「「「「「「」」」」」、「」」、「」」、「「」」「「」」、「」」、「   | 이 것 수 있는 것 같은 것 같                |
| QUALITY OF MATERIAL TO BE AS REQU   | 医液液 かがっかかい しょうかい かくした しょうほう ひじょう しょうかい ひかかか したいしょうかい           |
| RIAL {QUALITY OF MATERIAL TO BE AS REQU<br>NANUFACTURER'S STANDARD SPECIFIC   | 医液体の 白光線の あしょうだい かいしょうどう しょうしょう しょうしん ひかたの しかいしょうかい            |
| may All and the second                   | 医液液 かがっかかい しょうかい かくした しょうほう ひじょう しょうかい ひかかか したいしょうかい           |
| malal i seconda de la compañía de la                     | 医液液 かがっかかい しょうかい かくした しょうほう ひじょう しょうかい ひかかか したいしょうかい           |
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| may All and the second                   | 医液体の 白光線の あしょうだい かいしょうどう しょうしょう しょうしん ひかたの しかいしょうかい            |
| malal i seconda de la compañía de la                     | 医液体 かんかかん しょうかん かんしかん しょうしん しょうしょう しょうかんかか しかく しょうかん           |

ALTERNATE RIVETED TRUSS DESIGN

# DUBOISTOWN BRIDGE

OVER THE WEST BRANCH OF THE SUSQUEHANNA RIVER

## WILLIAMSPORT, PENNA.

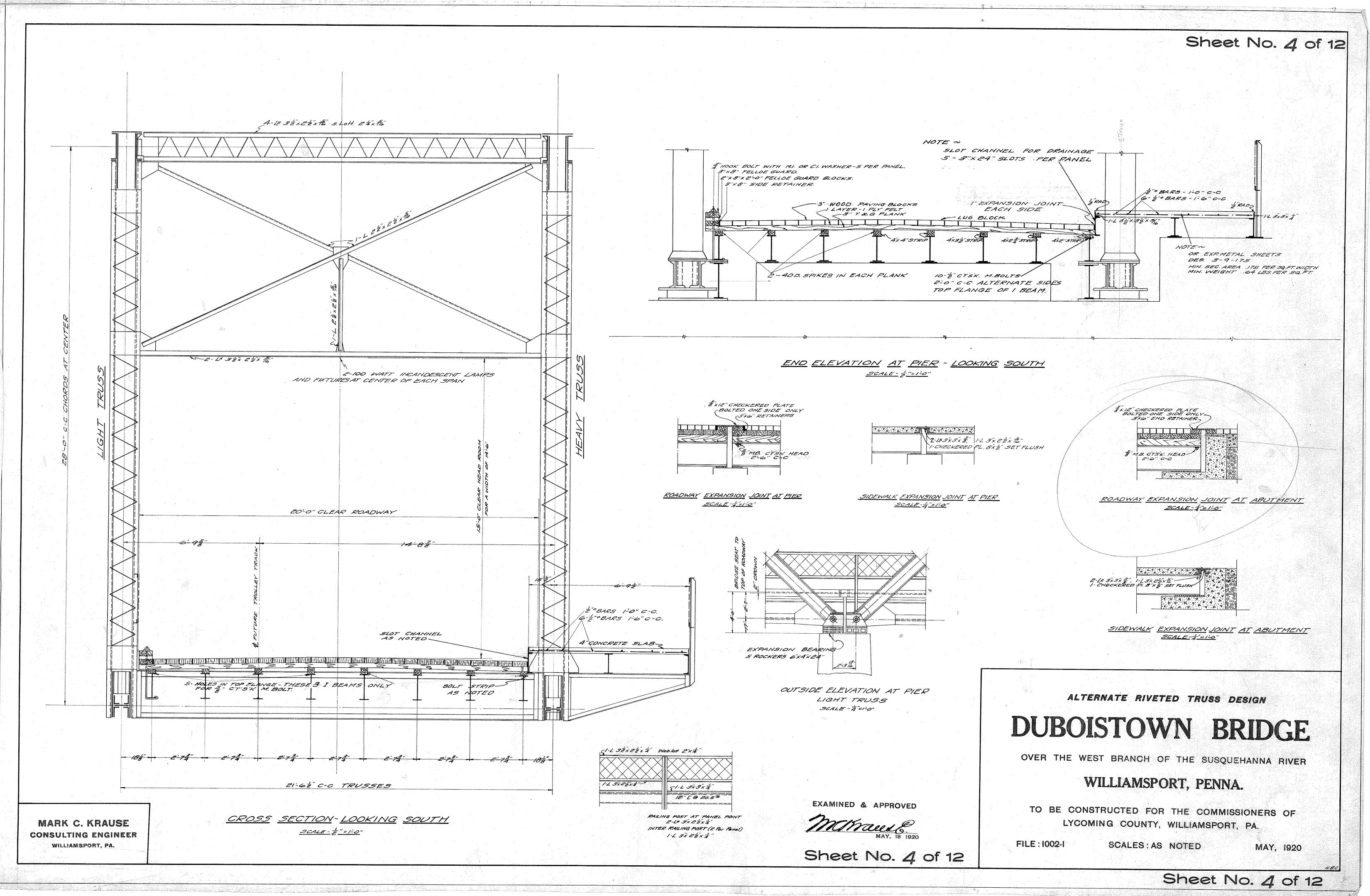
TO BE CONSTRUCTED FOR THE COMMISSIONERS OF LYCOMING COUNTY, WILLIAMSPORT, PA.

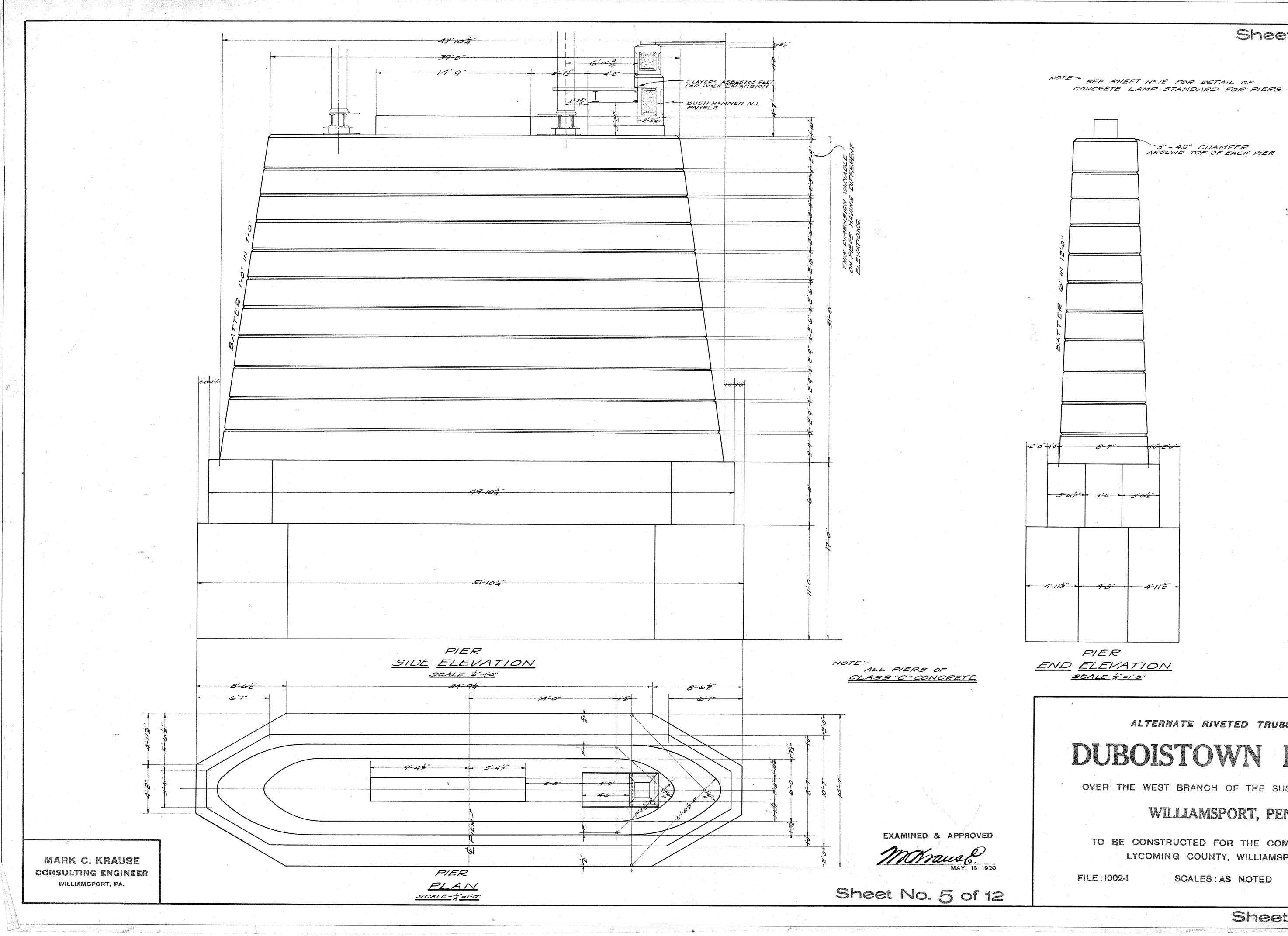
FILE : 1002-1

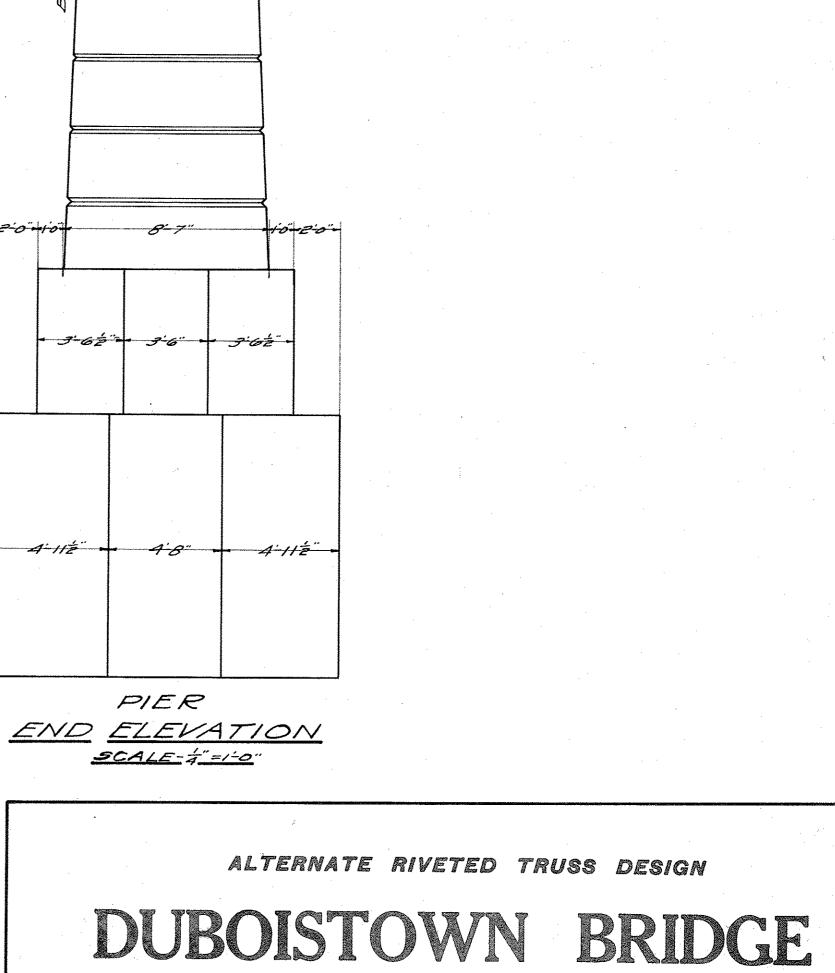
SCALES: AS NOTED

MAY, 1920

Sheet No. 3 of 12







3"-45° CHAMFER AROUND TOP OF EACH PIER

OVER THE WEST BRANCH OF THE SUSQUEHANNA RIVER

# WILLIAMSPORT, PENNA.

TO BE CONSTRUCTED FOR THE COMMISSIONERS OF LYCOMING COUNTY, WILLIAMSPORT, PA.

FILE : 1002-1

SCALES: AS NOTED

MAY, 1920

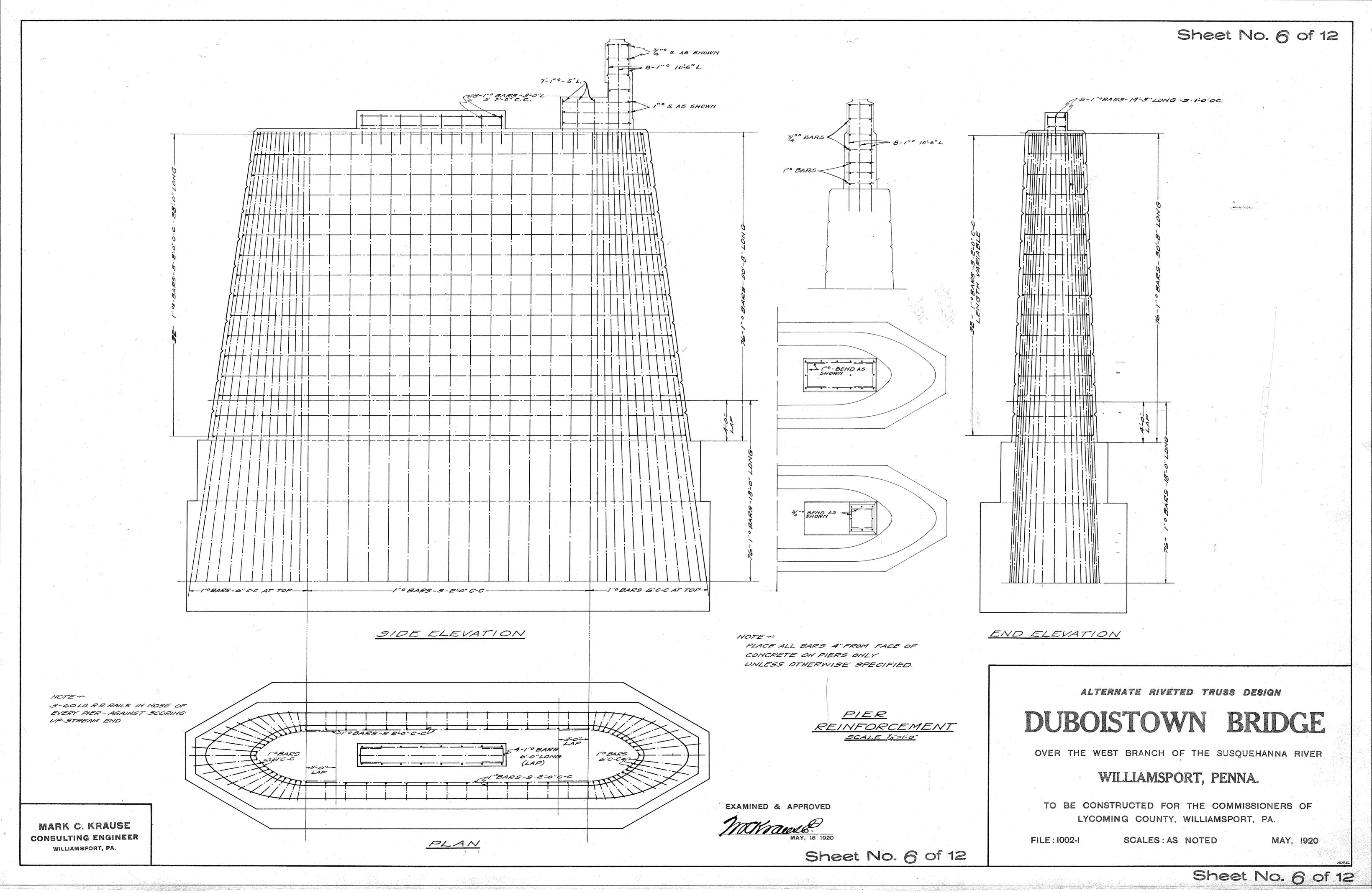
H.B.C.

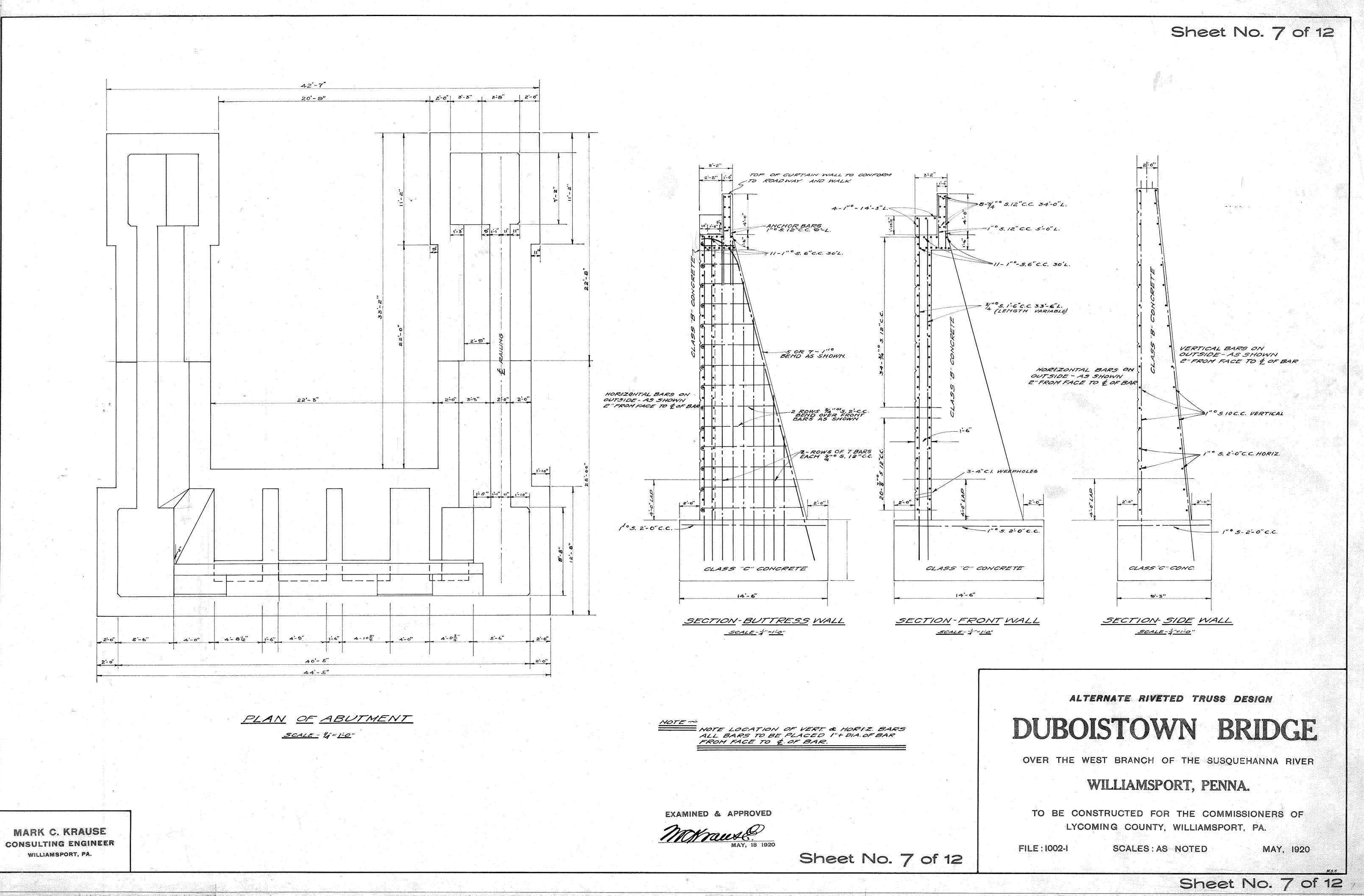
Sheet No. 5 of 12

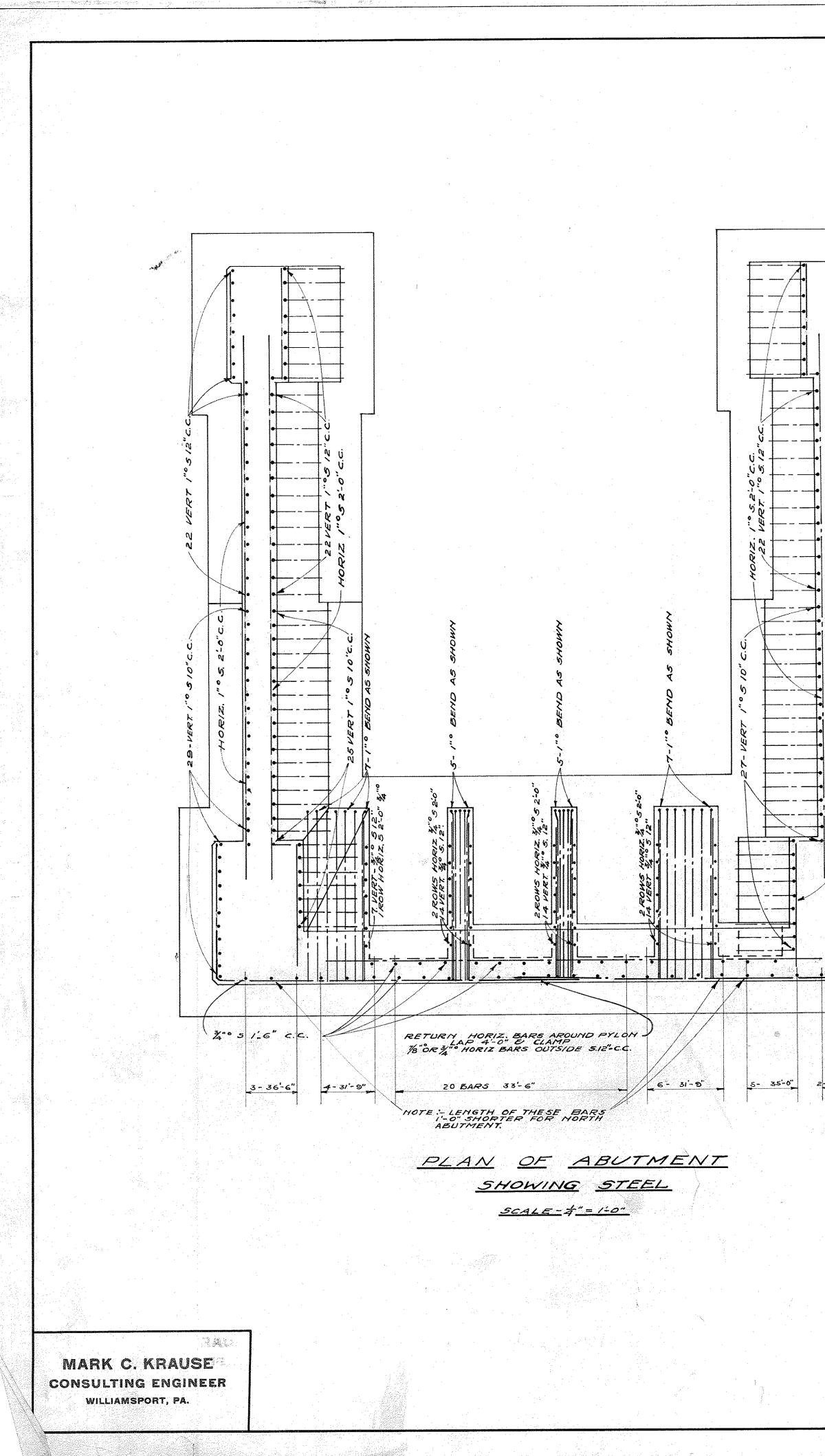
Sheet No. 5 of 12

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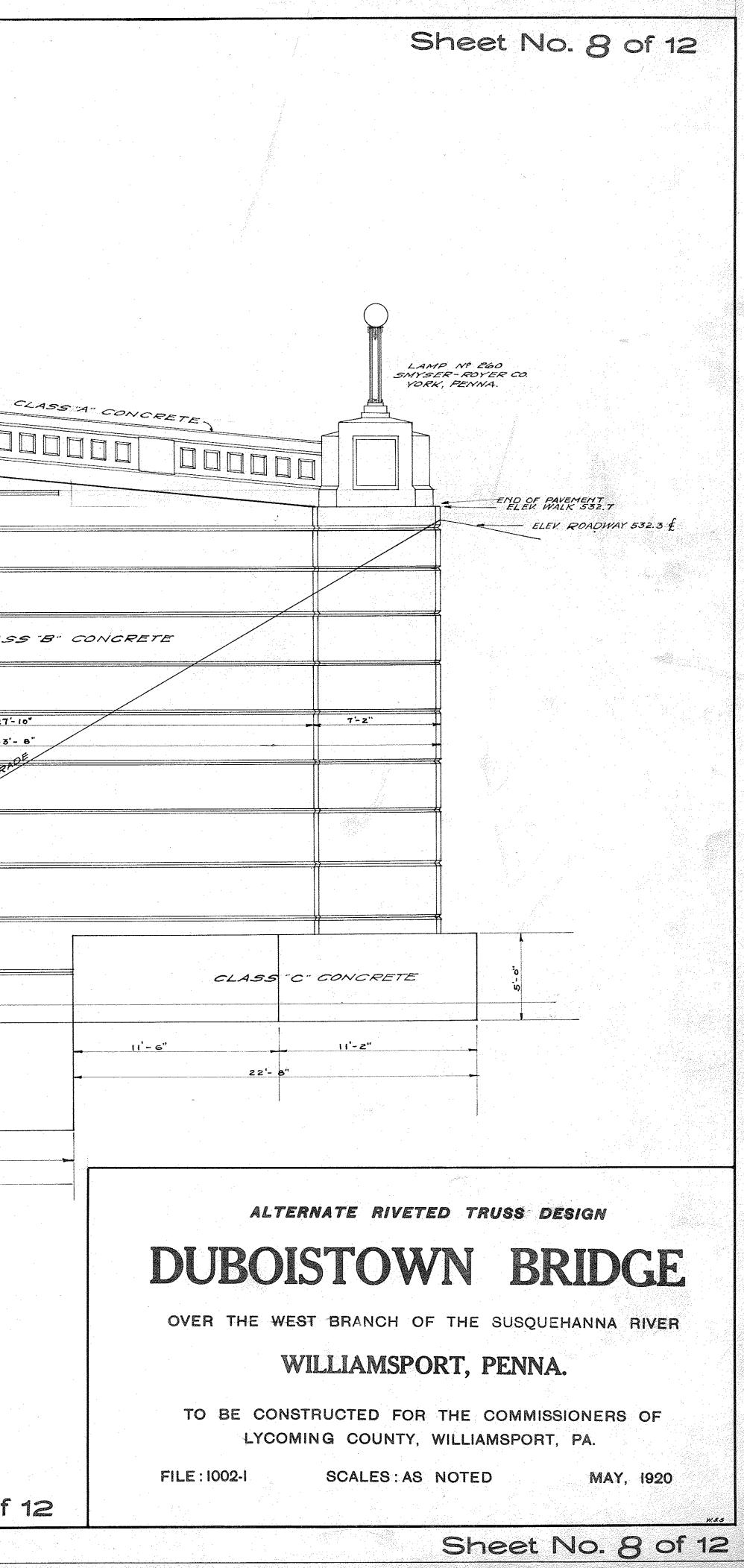
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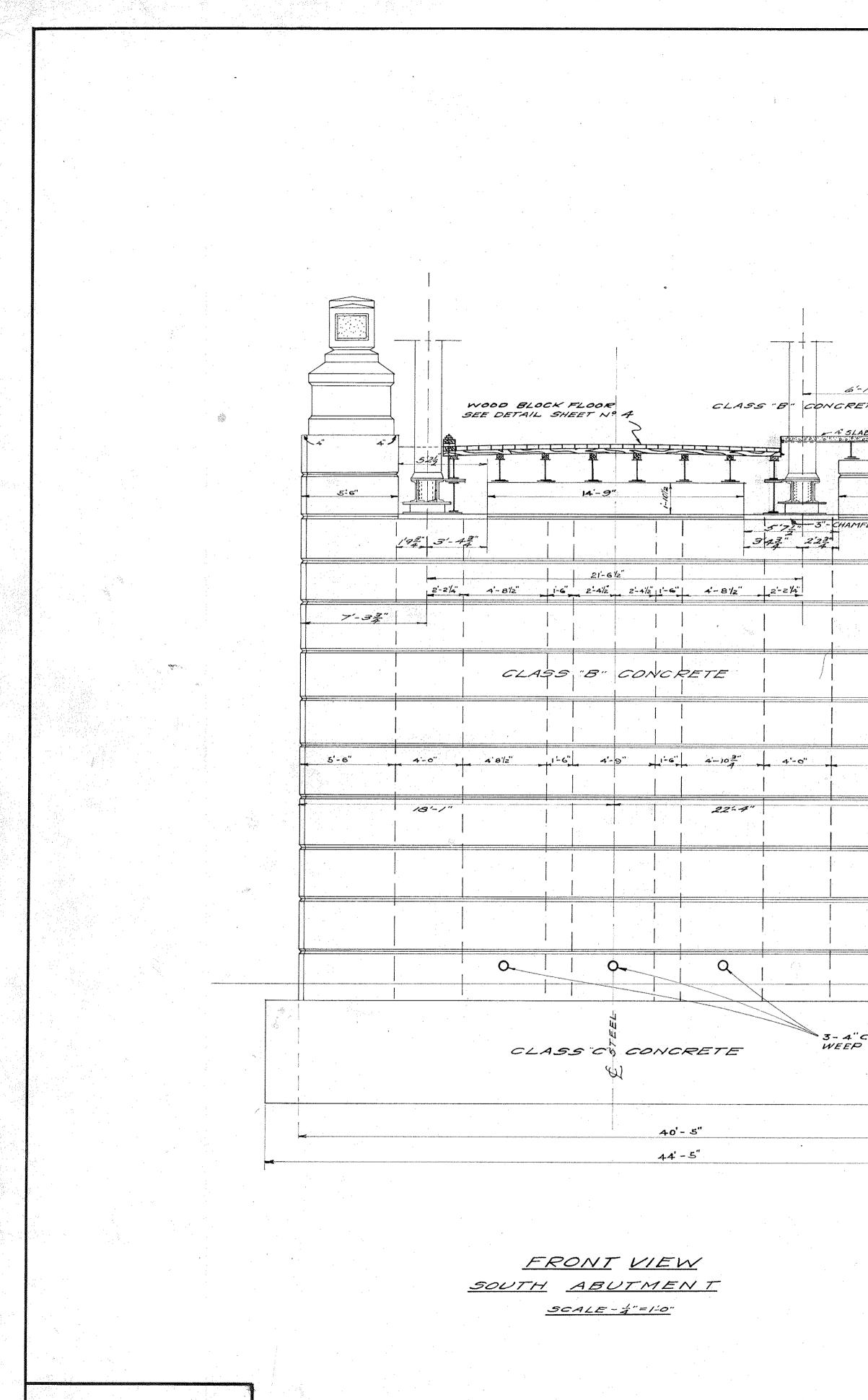






. : 1 \_\_\_\_\_ <u>\_\_\_\_\_</u>\_\_\_ BRIDGE SEAT -ELEV. 531.00 CLASS B. CONCRETE 27-10 8'- 8" 43'- 8" LOW WATER ELEV. 505.00 CLASS "C" CONCRETE 12'-4" 12'-8 2-36-6 25'-0" ELEVATION NORTH ABUTMENT SCALE - 4"=1-0" EXAMINED & APPROVED MAY, 18 1920 Sheet No. 8 of 12

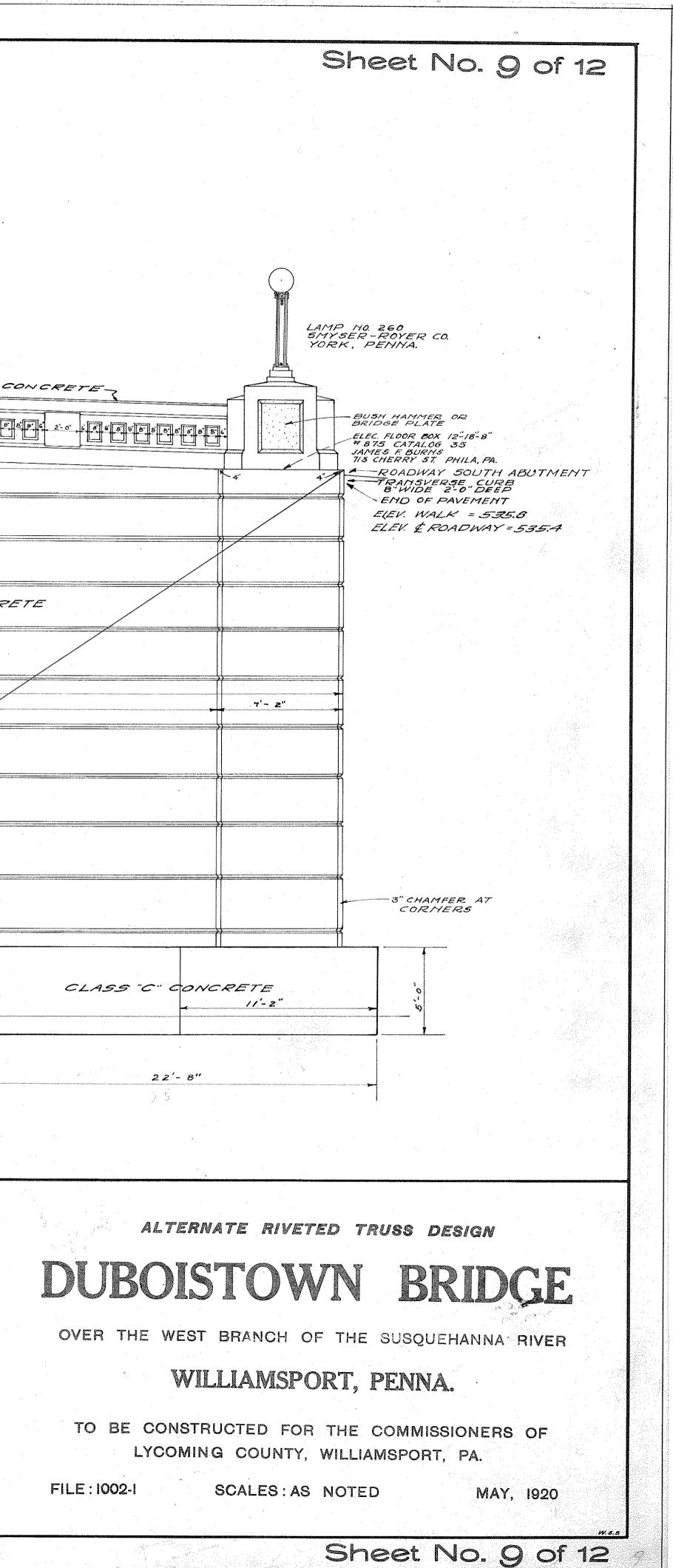


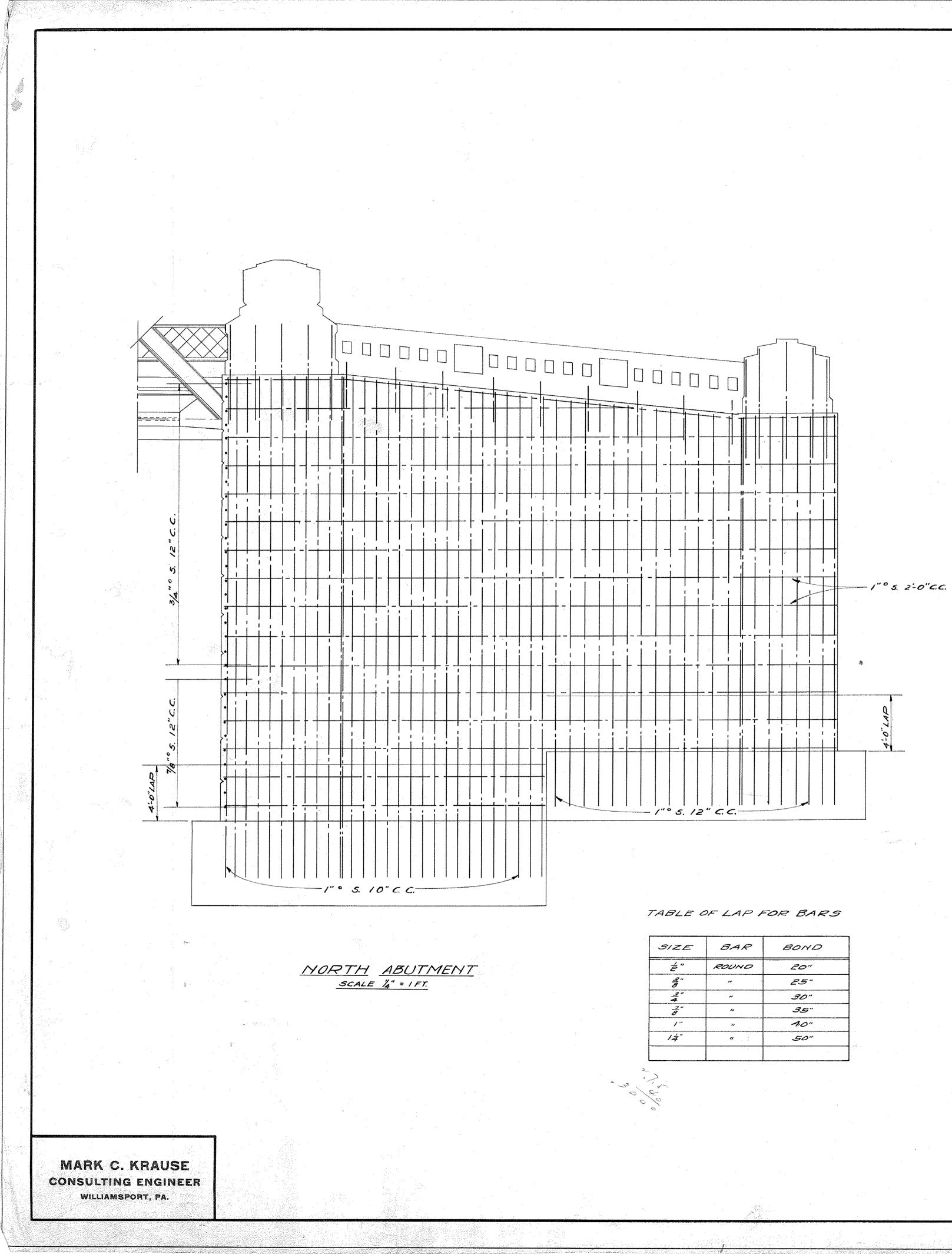


MARK C. KRAUSE CONSULTING ENGINEER WILLIAMSPORT, PA.

|                    |                    |                                    |  | ·   |            | No. Summerican<br>Summerican<br>Summerican |  |                             |
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|                    | n<br>n             | •<br>•                             |  | N   |            |  |  |                             |
|                    |                    |                                    |  |   |            | BUSH HAMMER                                |  |                             |
|                    | ).                 |                                    |  |   |            |  | CLASS "A   | ' ~ <                       |
|                    | EY D               | NSION INIST                        |  |   |            | <b>0 0 0 0 0 0 0 0 0 0</b>                 | 2-0" 69 8 8 8 8 8  | Ĵ e [                       |
| B-<br>             |                    | ANSION JOINT<br>NAMELED CONDUI     |  |   | - <b>*</b> | 50<br>                                     |  |                             |
| N 9'- 4"           |                    | N                                  |  |   |            |  |  |                             |
| FER                |                    | ELEV. 532                          | 2.00                                     |   |            |  |  |                             |
|                    |                    | ing<br>- (1<br>- (1)               |  | 2   |            |  |  |                             |
|                    |                    |                                    |  |   |            | CLAS                                       | 5 "B" CONC   | SR                          |
|                    |                    | ```<br>``<br>``                    |  |   |            |  |  |                             |
|                    |                    |                                    |  |   | 8'- 8''    |  | <b>43'~8</b> "   |                             |
|                    |                    |                                    |  |   |            |  | 27'-10"  |                             |
|                    |                    | 0<br>, '<br>N<br>2                 |  |   |            |  | 6PADE  |                             |
| 5'- <i>43</i>      | Terra i construite | ی<br>۲<br>۲                        |  |   |            | FIT  |  |                             |
|                    |                    | čo.                                |  |   |            |  |  |                             |
|                    | 1                  | `````````````````````````````````` |  |   |            |  |  |                             |
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| ······             |                    | 00<br>01<br>04                     |  |   |            |  | · · ·  |                             |
|                    |                    |                                    |  | a de la d |            |  |  |                             |
|                    |                    | NELEV S                            | 05.00                                    |   |            | LOW WATER EL                               | LEV. 505.00  |                             |
| C.I. PIPE<br>HOLES |                    | 8                                  |  |   |            |  |  |                             |
| HOLES              |                    | ° 0', '9'                          |  | · · ·   | 12'- 8"    | "C" CONCRETE                               |  | 10000 #8000 14 a a and<br>1 |
|                    |                    |                                    |  |   | · · ·      | · · · · · · · · · · · · · · · · · · ·      |  | ••                          |
|                    |                    | . *                                |  |   | 25'-       | <i>o"</i>                                  |  |                             |
|                    |                    |                                    |  |   |            |  |  |                             |
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|                    |                    | •<br>• • • • • •                   |  |   | FI .       | EVATION                                    |  |                             |
|                    |                    |                                    |  | X   | SOUTH      | ABUTMENT                                   |  |                             |
|                    |                    |                                    |  | н.<br>Эл  | <u>-50</u> | ALE - #"=1-0"                              |  |                             |
|                    |                    |                                    |  |   |            |  | and the second |                             |
|                    |                    |                                    | AMINED & A                               |   |            |  | e '' .   |                             |
|                    |                    | <i>7</i>                           | AKrau                                    | WAY, 18 1920  |            |  |  |                             |
|                    |                    |                                    | n an |   | 8h.        | ant Nia a                                  |  |                             |

Sheet No. 9 of 12





| BAR   | BOND |
|-------|------|
| ROUND | 20"  |
|       | 25"  |
| "     | 30"  |
|       | 35"  |
|       | 40"  |
|       | 50"  |
|       |      |

SOUTH ABUTMENT <u>SCALE "/4" = 1 FT</u>

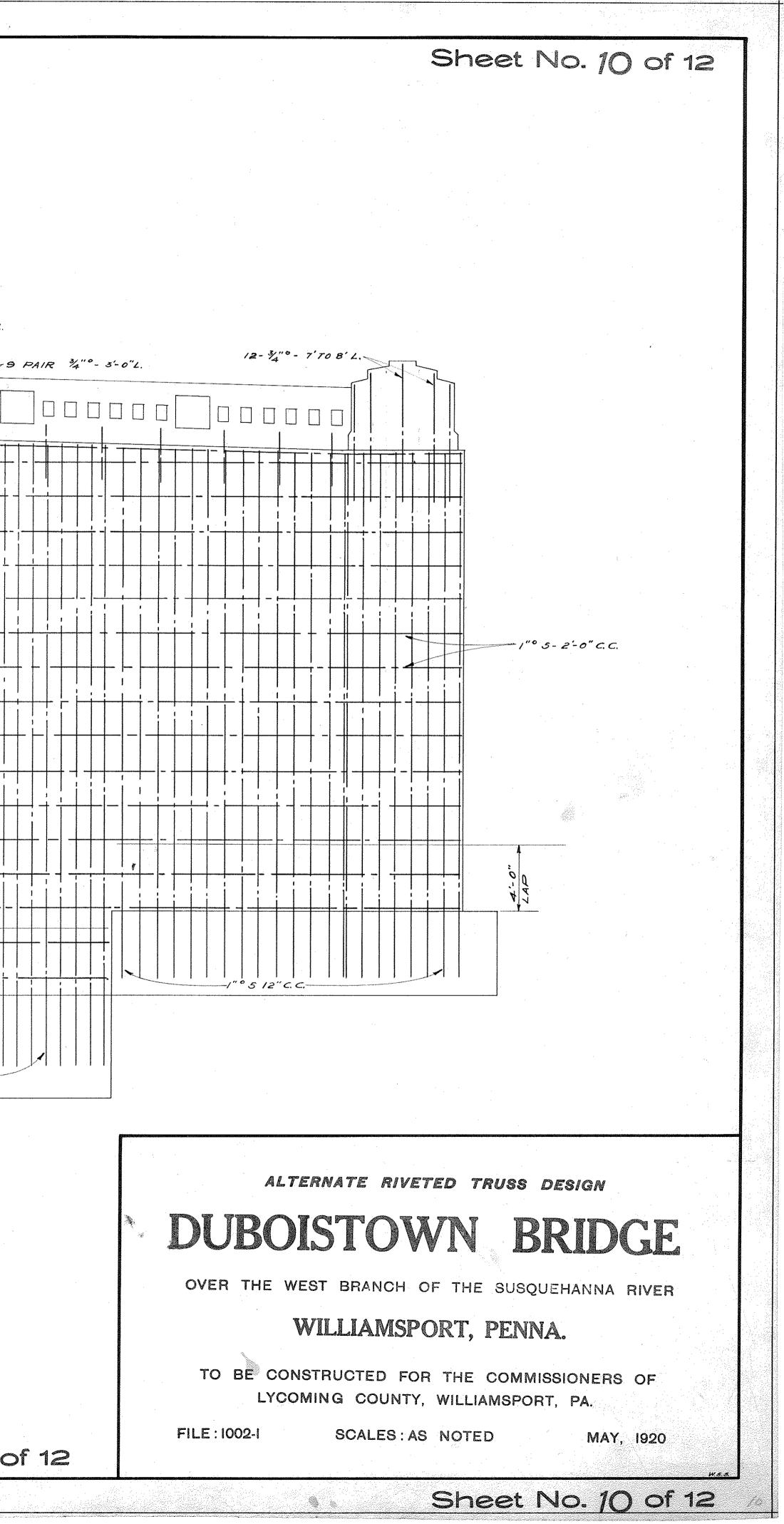
1" ° 5-10" C.C.-

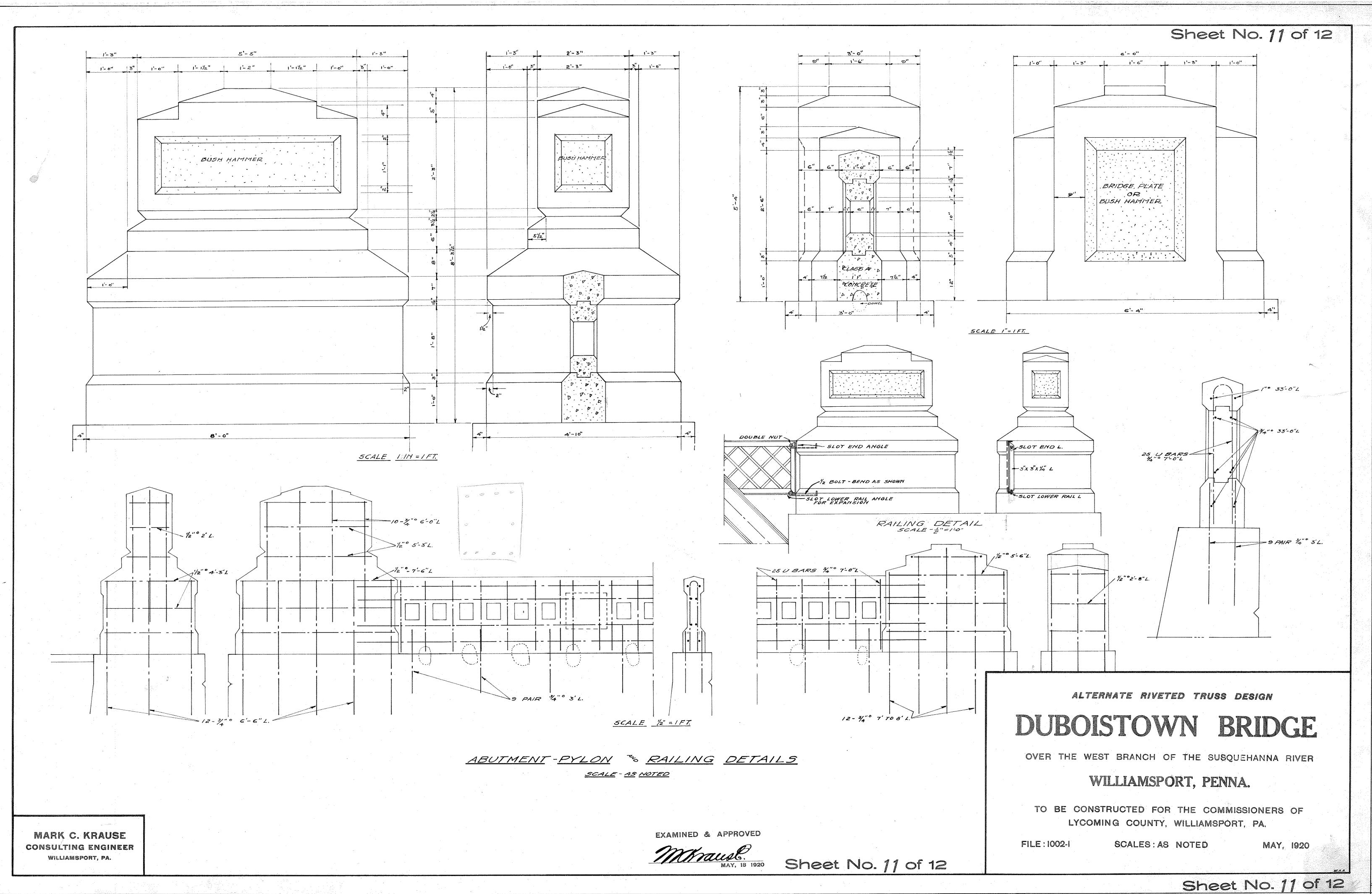
EXAMINED & APPROVED

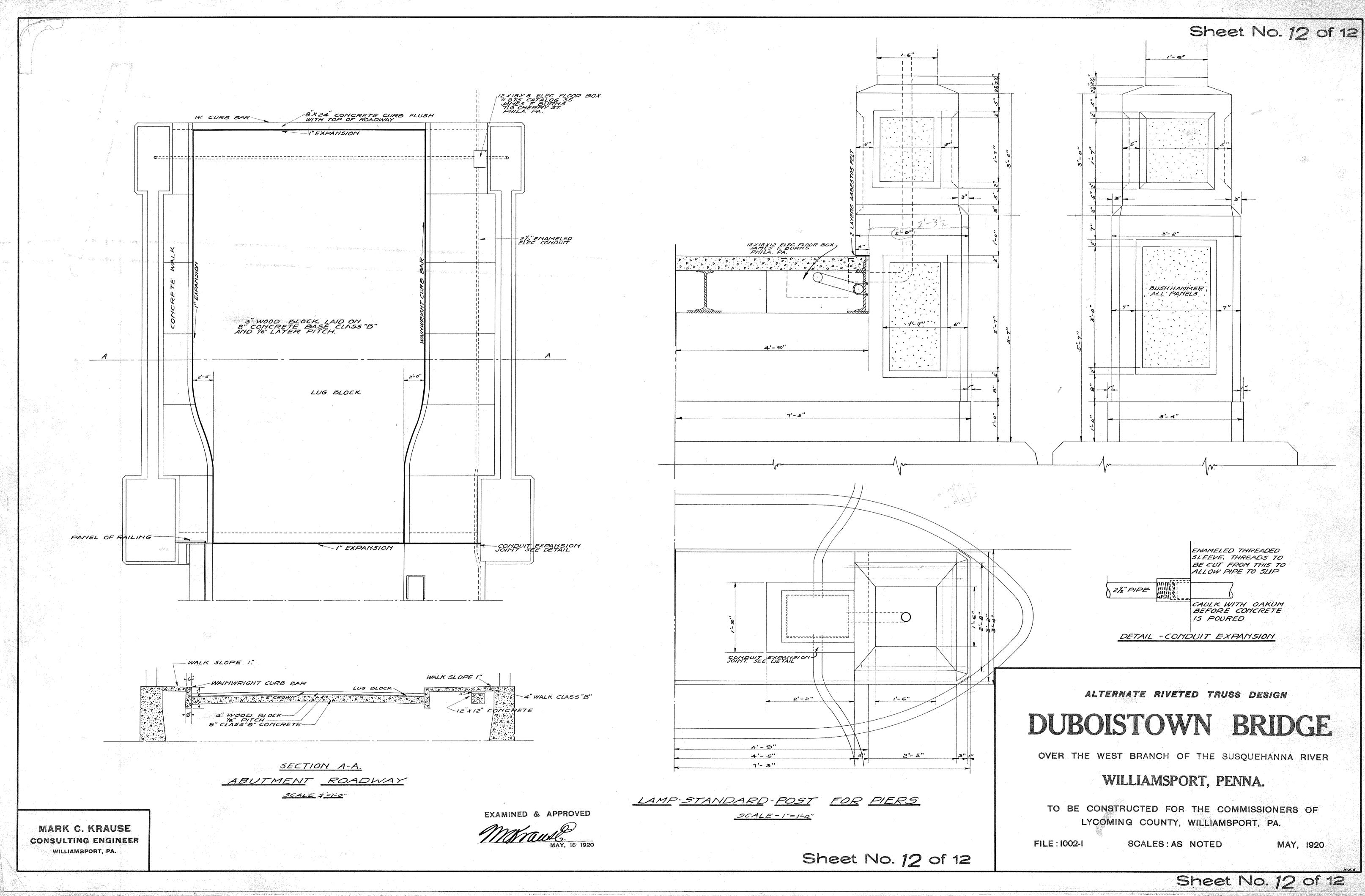
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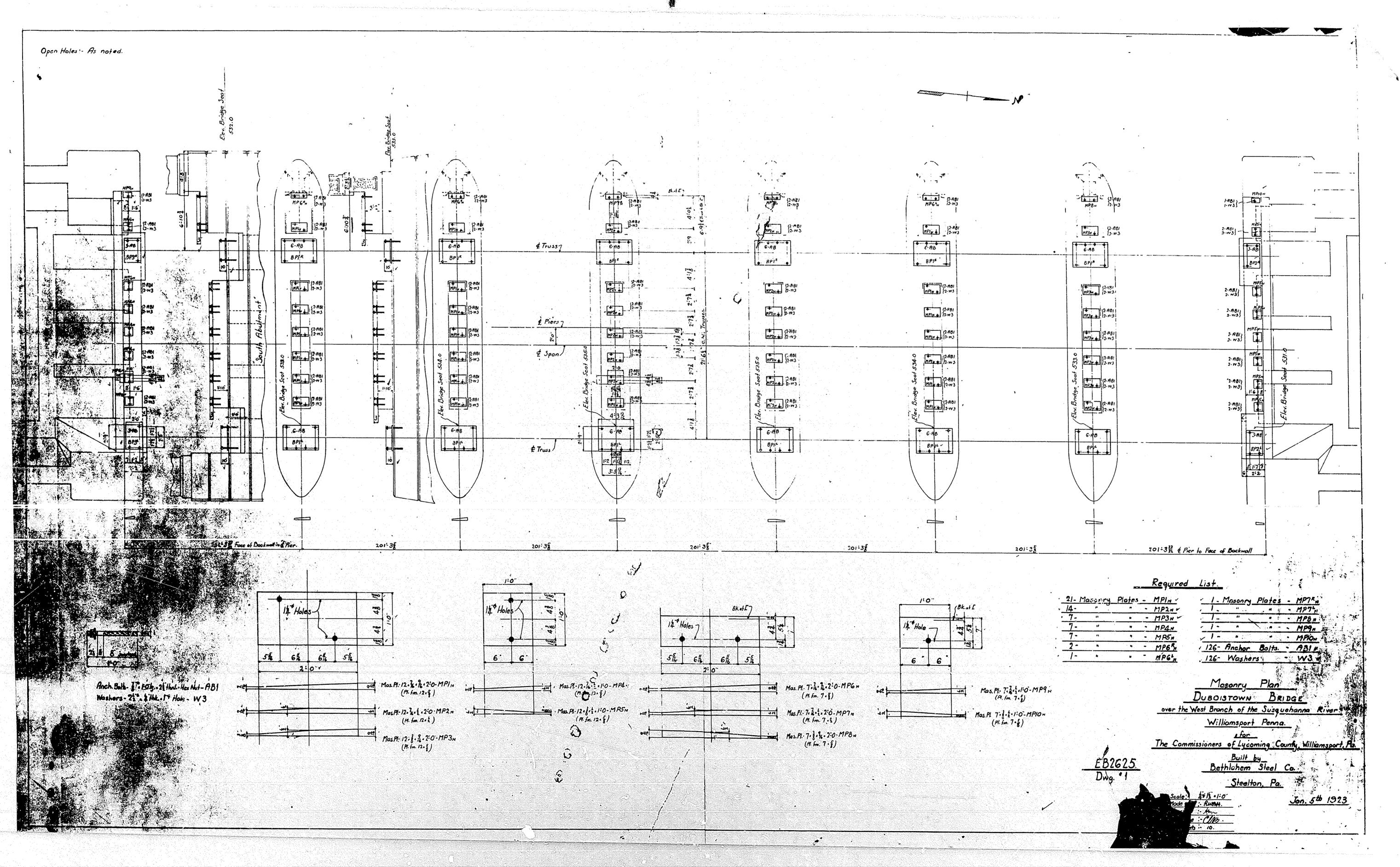
MAY, 18 1920

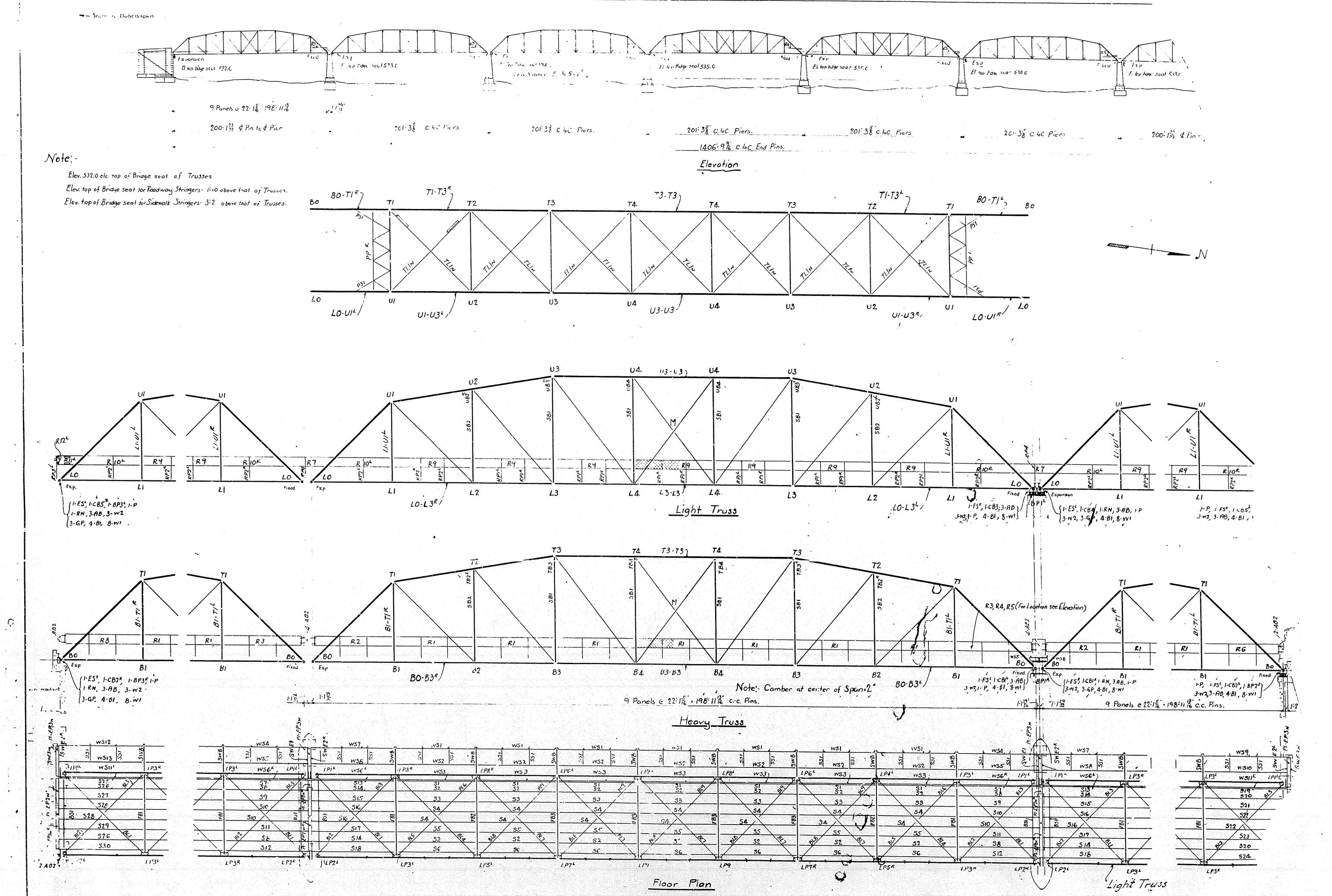
Sheet No. 10 of 12







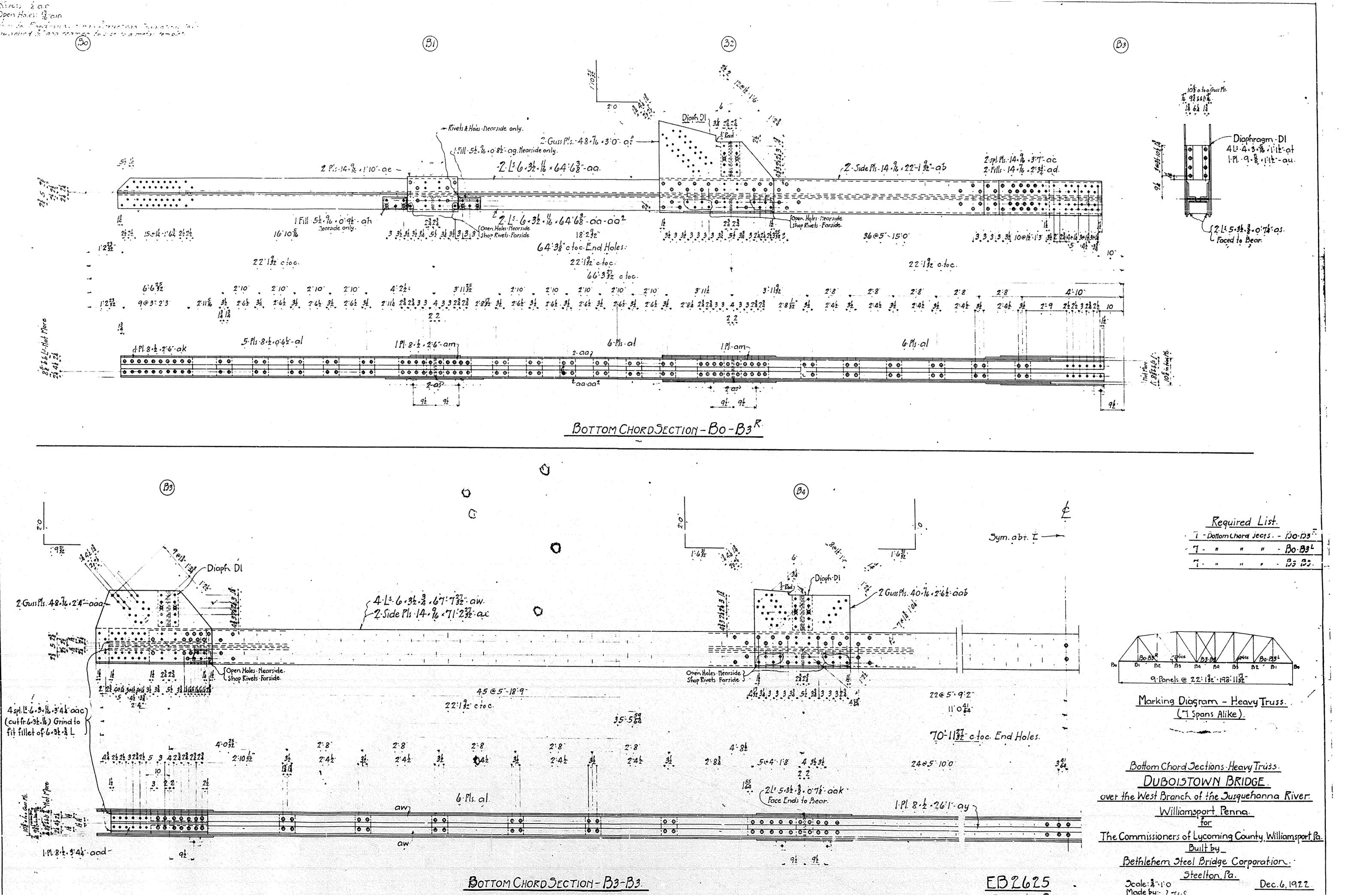


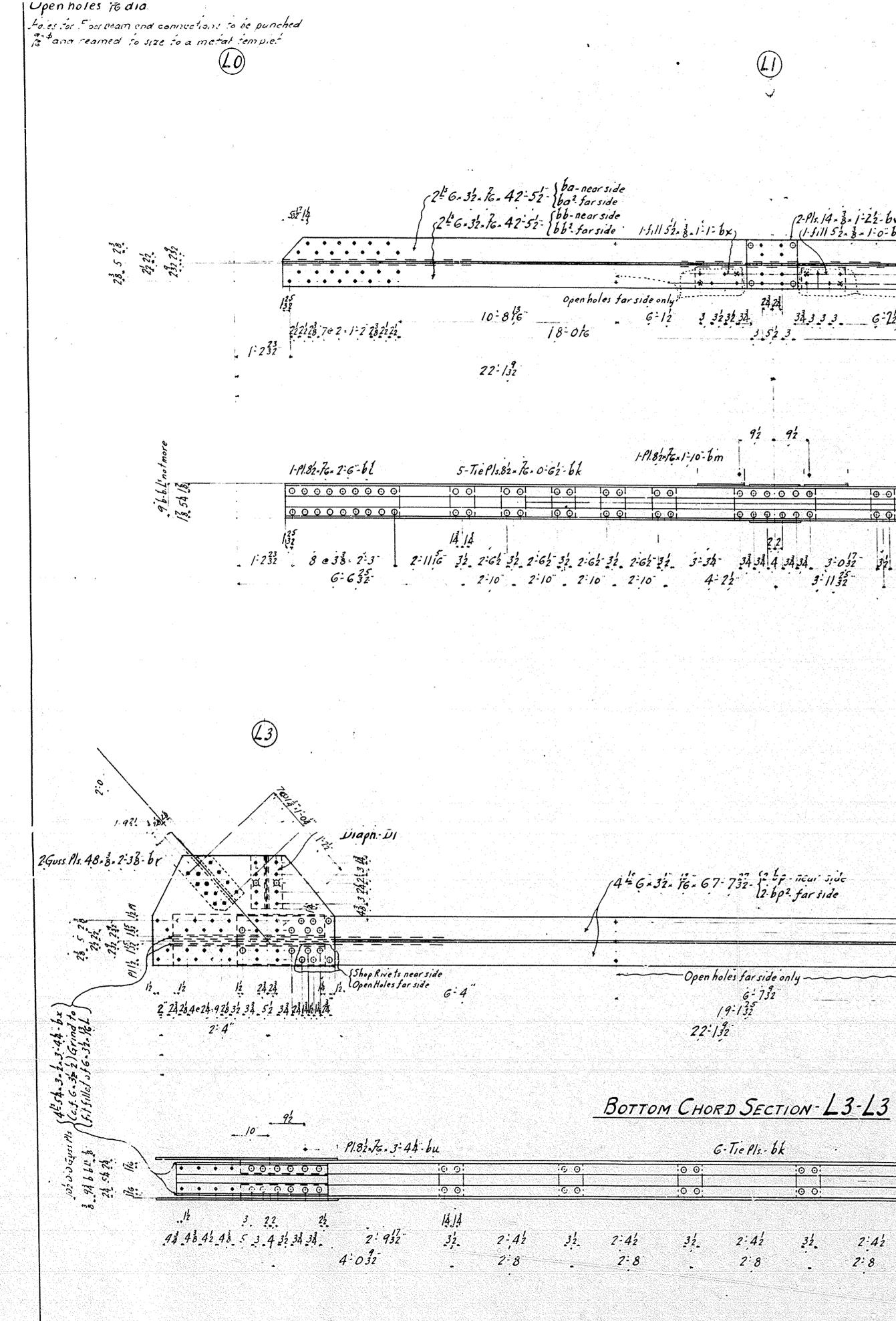


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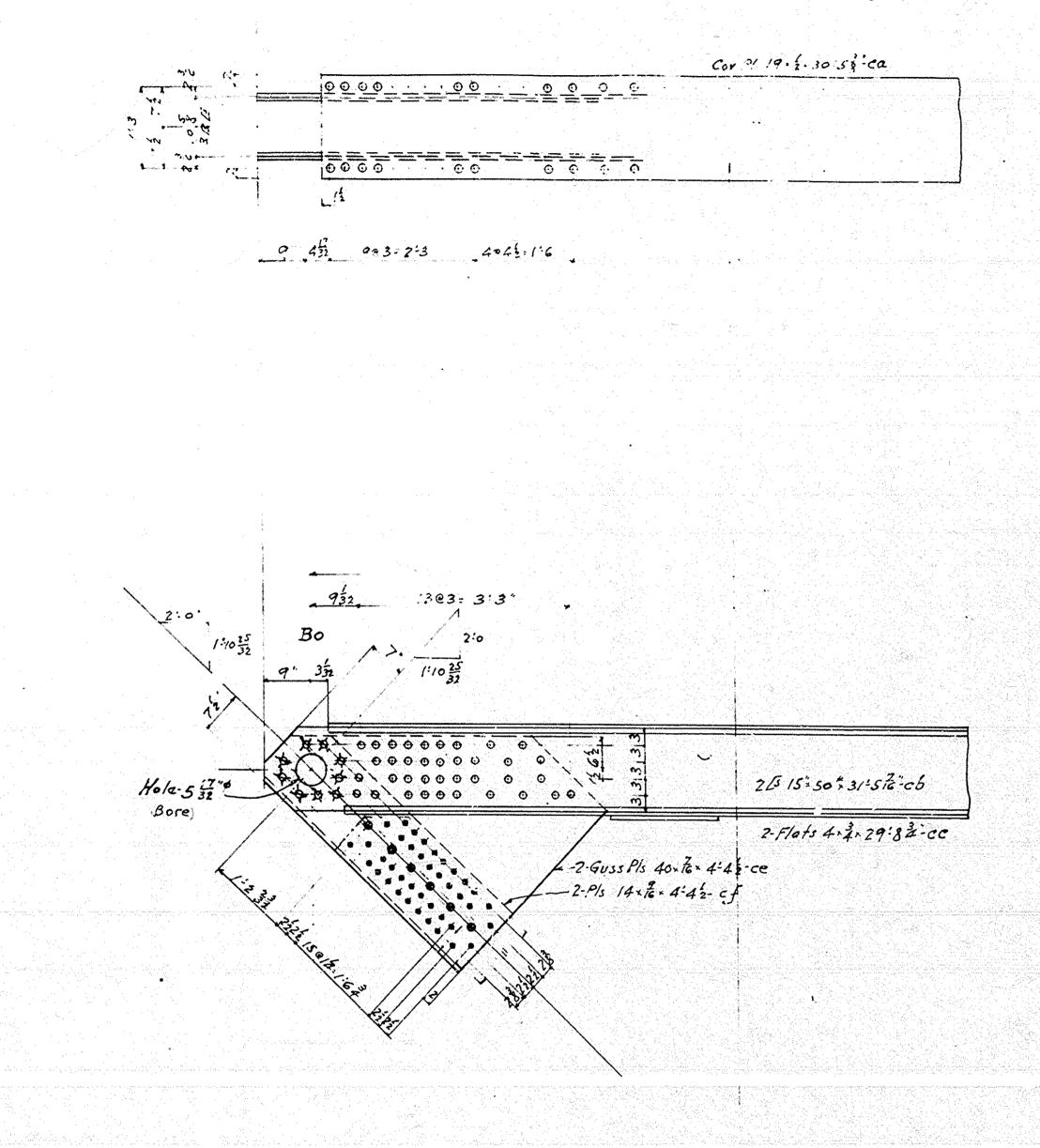
Nala, I. rul "EI."

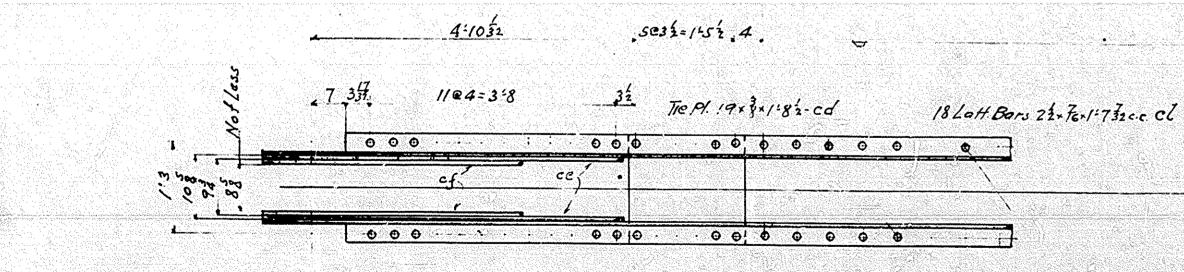
52 12 2 Pis-14.92 + 1'10"-ae -\* \* \* \* \* \* \* \* \* 200 • • • • • • • • • IFill 52.16.0.92 - ah 16'10 % 22 22 15 14 164 22 22 1232 22'132 ctoc. 6.632 1 2 32 9@3:2:3 22 5-Pls-8-2-0:62-al 18-2-2:6-am d Pl 8.2.26-ak 0000000000 0 0 00000000000 .................. • 0 0 0.0 ..... - . . 0 0 1-as 92 92



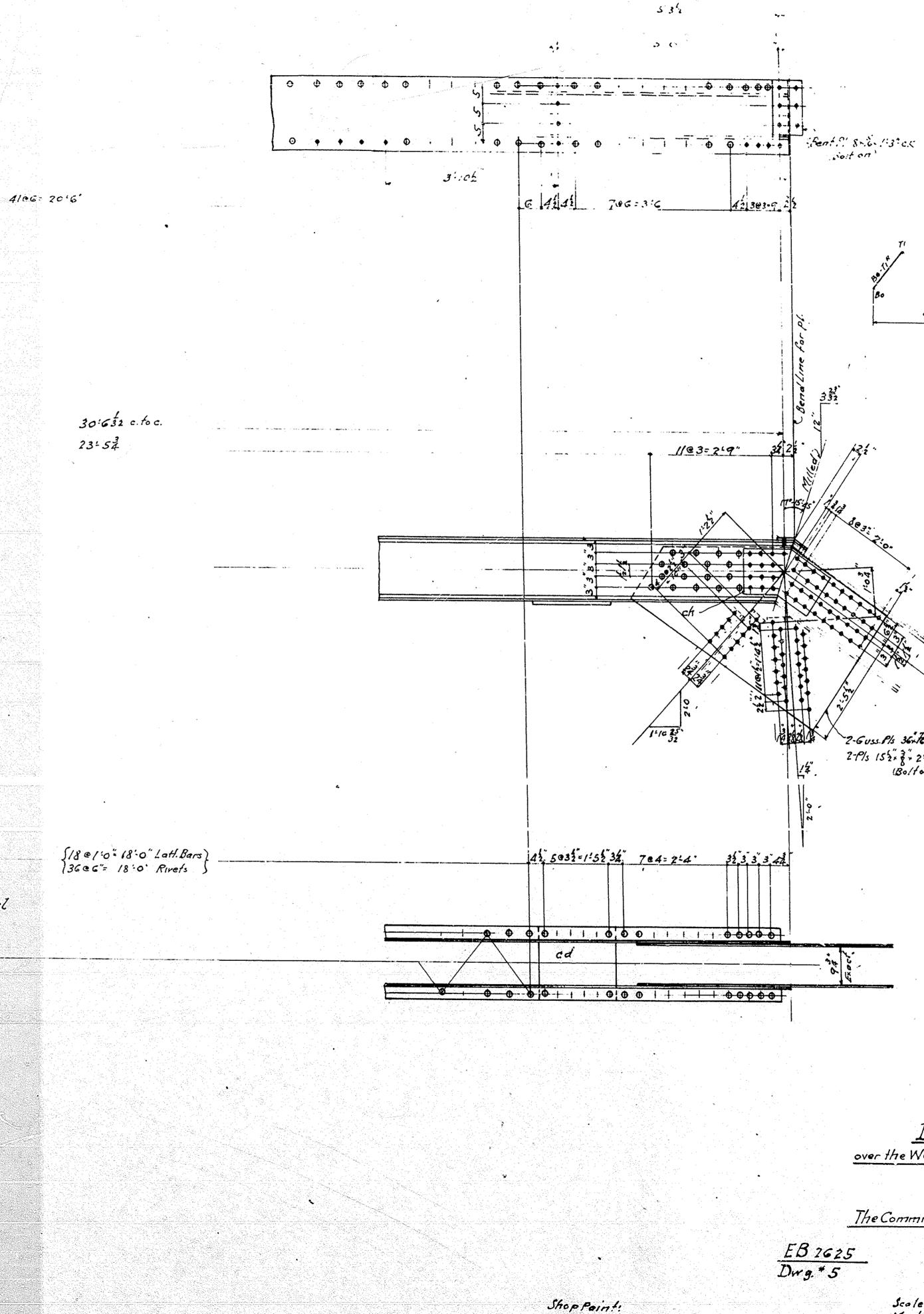


Diaph-Di 14-fills 5 + 8= 1-38-6V 2 Guss. Pls. 48= 8= 2-38-bd 4-Spl. L= 52= 3= 8= 2 4 - bg (cf. 6= 3= 8) Grindtofit fillet of 2-fills 122= 8= 1-98-bh -fills 122 \* 8 \* 2-14 - bf 12-Pls. 14 = 3 = 1-22-6W (1-5111 52= 3 = 1-0-64 50: --- openholes far side only ... rivets near side holes for side ···· Openholes forside only Diaphragm - D1 4 = 4 × 3 × 16 × 1-12 - at 1-Web Pl. 9 × 8 × 1-12 - au 6:732 3433 6-72-5-42 19-332-64-38 c-to-c. Endholes 22-132 66-332 c.-to-c. BOTTOM CHORD SECTION-LO-L3R Grind L'by to fit fillet of 6x 32-761 1-P1.82× fc= 2-102-bn G-Tie Pls. - 6k 4- fills 22 + 4x 11 8 G-TiePls-bk bf be 32 24 24 24 42 34 4 34 34 1-114 3- 032 32 2:42 32 2:42 32 2:42 32 2:42 32 2:42 32 2:42 32 2:42 32 2:42 32 2:84 2-8 2-8 2-8 2-8 3-112 4-032 . 2-8 (14) Symm. abt. £ <u>Required List</u> 7-Bottom Chord Sections - LO-L3<sup>R</sup> 1.632 1-631 Diaph-DI - 20-134 2-Guss. Pls. 40 - 3 - 2-38-65 - 13-13 Shop Rivets near side Open Holes for side G-22 hop Rivel near side pen Holes jar side G:22 Openholes forside only 24 24 3-3 64 9-5 54 3 3 3 3 3 5 7 3 4 3 3 3 3 11-064 9-Panels @ 22: 132 = 198- 1132 35-5 64 70-11 32 c. to.c. End Holes. Marking Diagram - Light Truss (7 Spans Alike) <u>92 92</u>. 1-Web Pl 9-76-26-1-6t ,i∔ ```` 0 0 Bottom Chord Sections - Light Truss 0 0 DUBOISTOWN BRIDGE. |55 |64 164 12 504:18 4 32 32 over the West Branch of the Susquehanna River 2:94 : 4:9 2:42 2:8 32. 32 2:42 2:8 364 32 24 0 5 . 10:0 Williamsport Penna. The Commissioners of Lycoming County Williamsport, Pa. <u>Built by</u> Bethlehem Steel Co. Steelton, Pa. EB2625 Dwg Nº 4 Dec. 13, 1922. Scale 4 · 1-0 Made by: H.F.H.



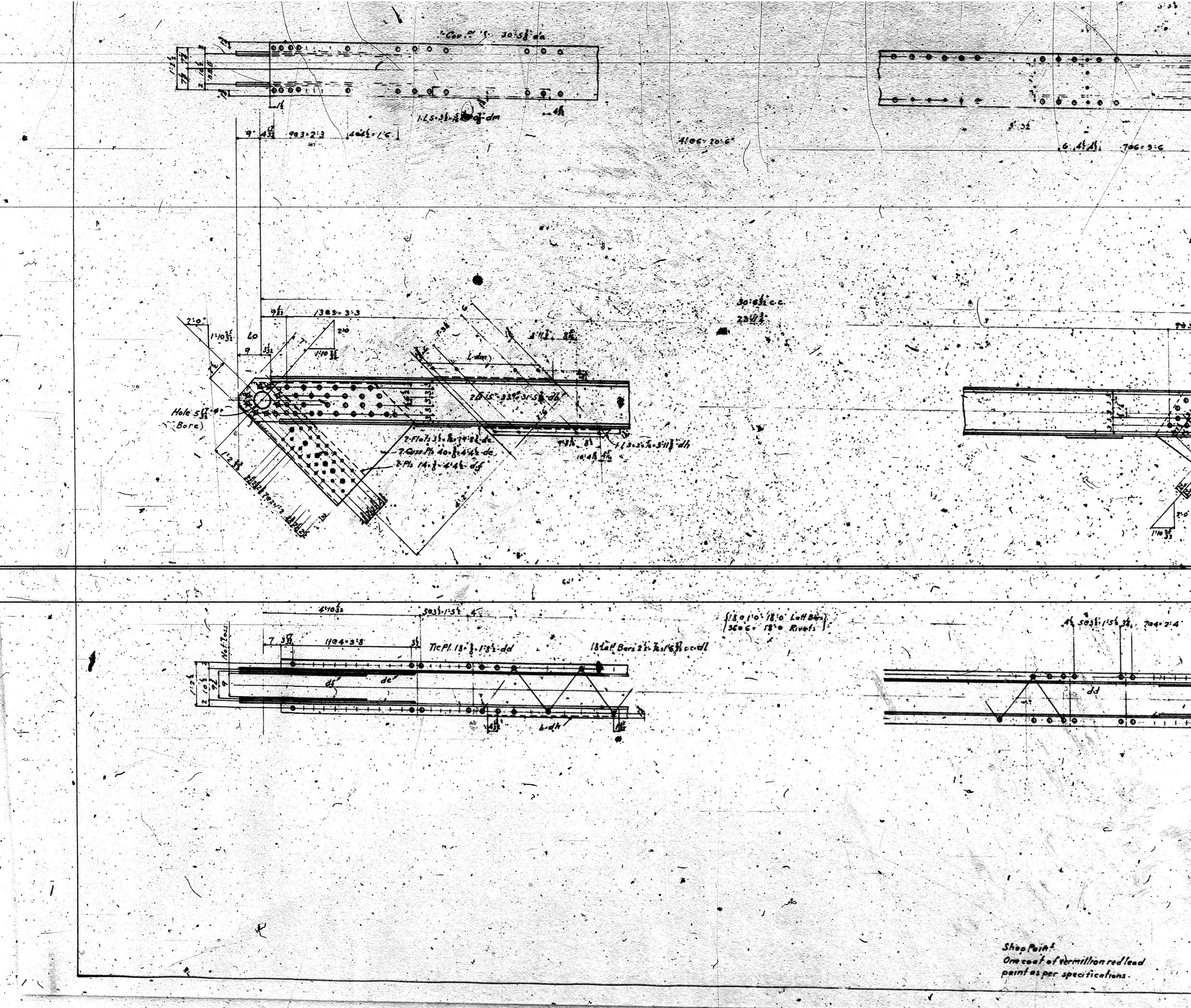


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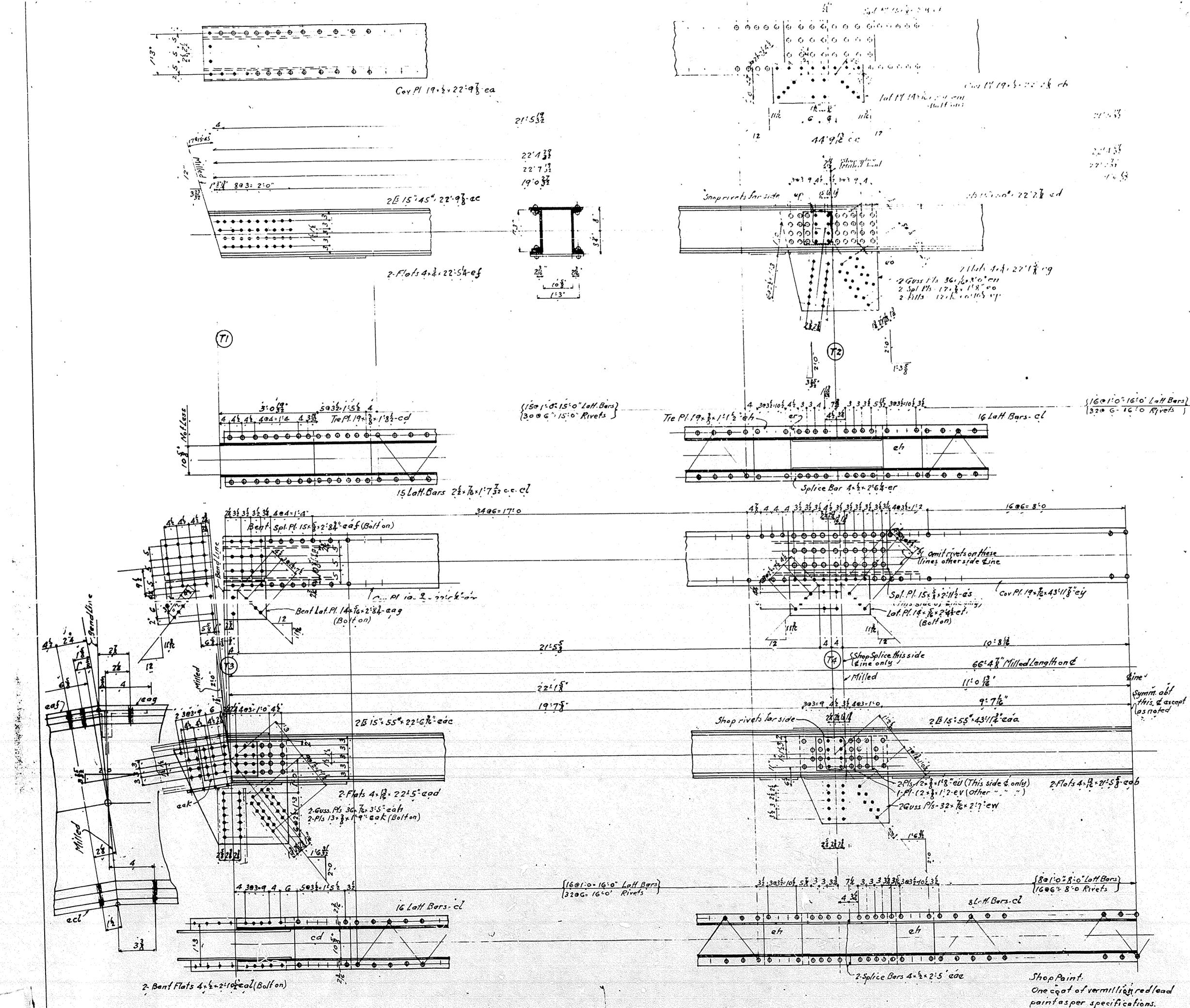


One coat of vermillion red lead paint as per specifications

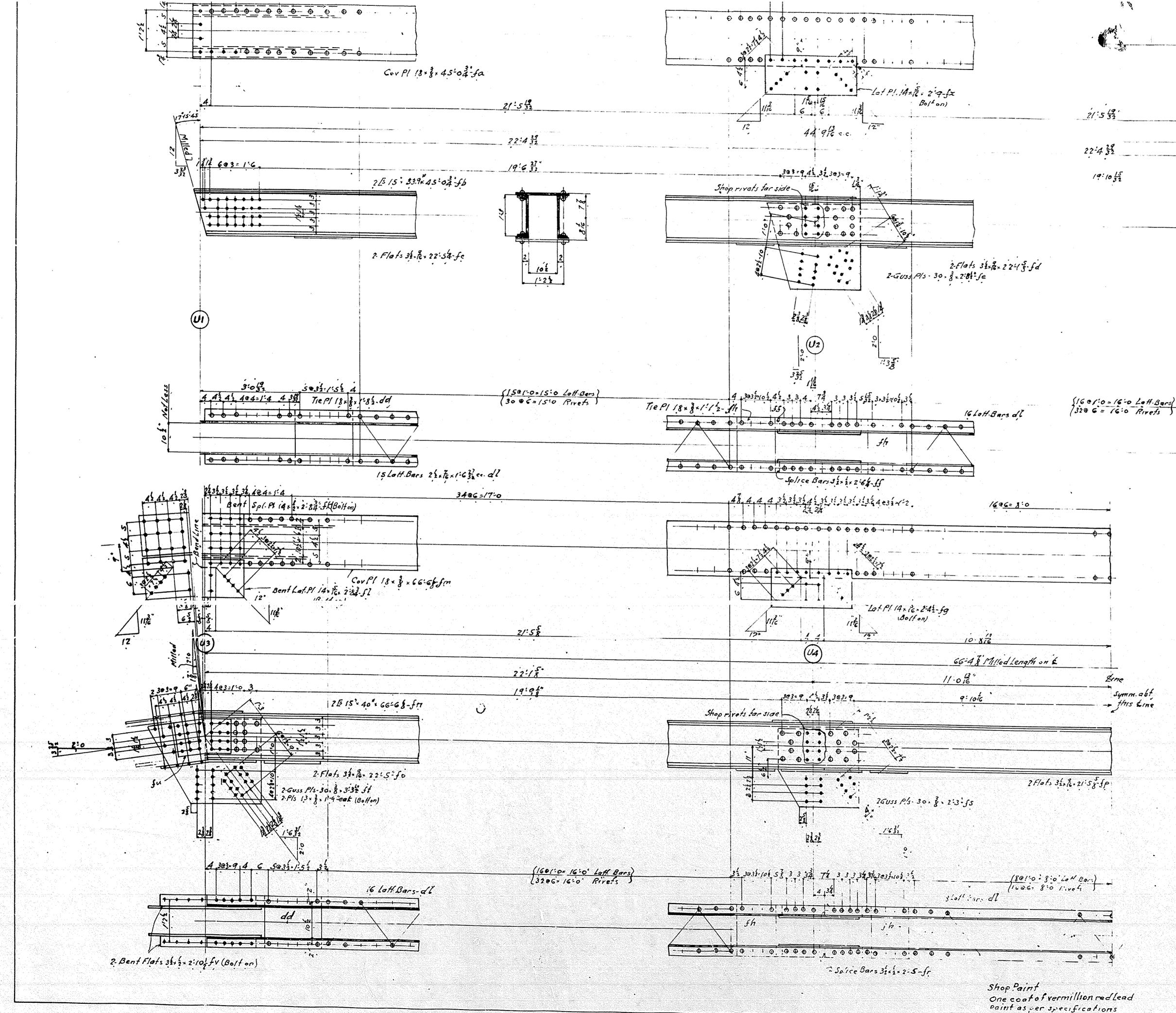
2 .4 9:2000's 3 22:1 5+32:195:112 Marking Diagram Heavy Truss 7-Spans Alike) 2-Guss Pls 36+ tex 4-112-cg 2-Pls 152\* 3 + 2-02-ch (Bolton) 15 Required List 7-End Posts - Bo-TIR " " - Bo-TIL -Note: Compare templets with EB2625 Dwg+6 no co End Posts - Heavy Truss DUBOISTOWN BRIDGE over the West Branch of the Susquehanna River. Williamsoor! Penna. for The Commissioners of Lycoming County Williamsport Ra Built by EB 2625 Dwg. \* 5 Bethlehem Steel Co Steelton, Pa Dec-15-1922 



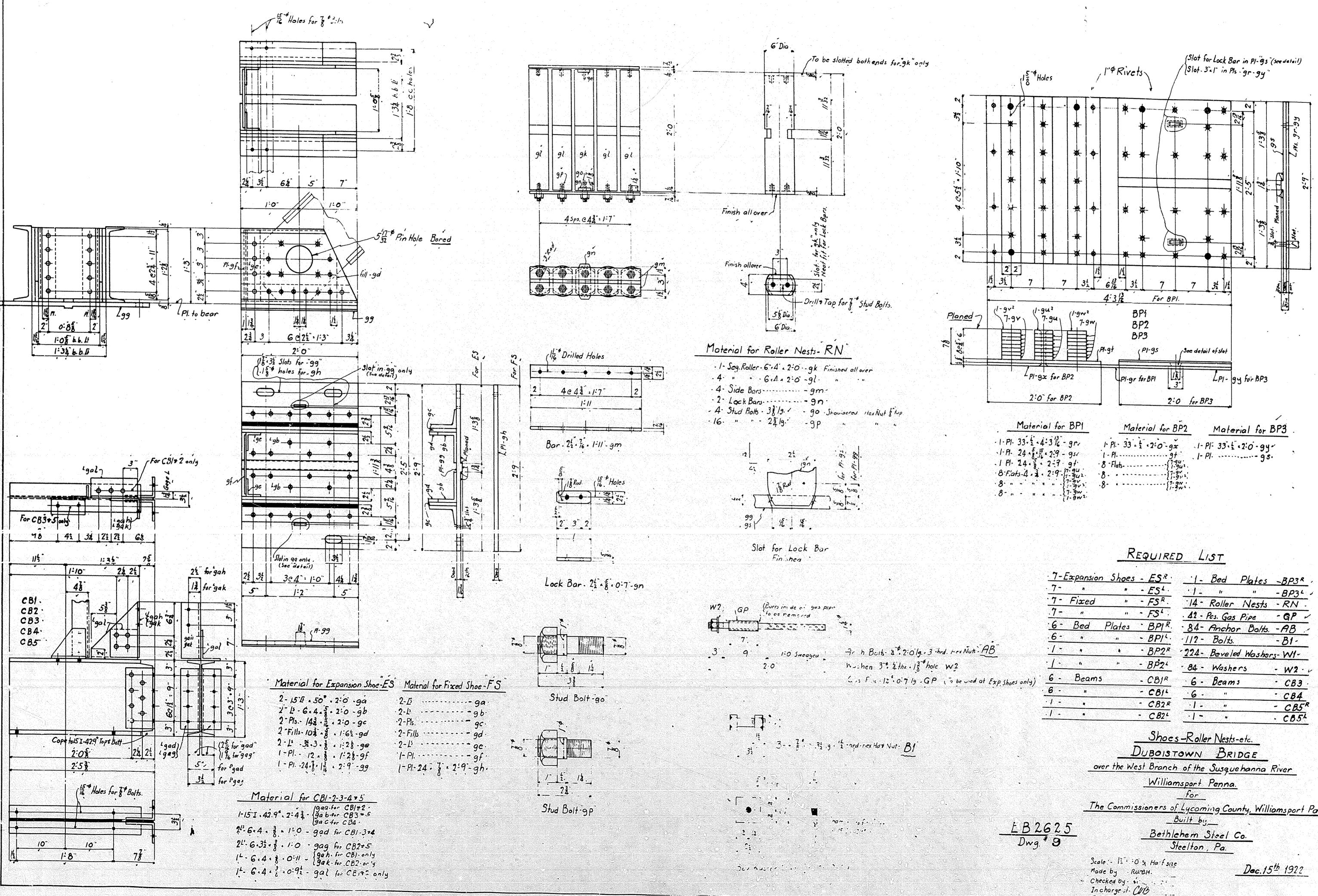
Bent P. 1. 16, 1:2-dk (Bolt on). \$1.503-7 9- Annols & 22+1 8+5= 192-11/2 Marking Diagram Light Truss (7. Spans Alike) 203.2.3\* · • · • • • 1.0 2:0 2-Guss Pls 33+8+4:0- dg (Boilt on) Required List 7- End Posts - Lo-UIR 22,3,3,3,4 7-End Posts - Lo- UIL-Note: Compare templets with EB2628, Dmg+5 0 0 +++++ 0 00 b 0 0 1 1 1 1 1 9 00 0 0 End Posts - Light Truss DUBOISTOWN BRIDGE over the West Branch of the Susquehanna River Williamsport. Penna. The Commissioners of Lycoming County Williamsport Pa Built bu EB 2625 Dwg. 6 Bethlehem Steel Co Steelton, Pa Dec-16-1922 . Scole Zerio Madeby Leg Child by InCharge My. Bills-Co



• <del>6</del> 6 6 · · · ÷i⊖⊕÷♦ ♦ ♦ ♦ \* \* \* \* • • • • 68 3-39'10' 4 2 7 1 7 3 1 1. to 3. 7 9 14. . . . • • • • 42, 5032-1:52 AR 3041-1:12 2 cđ Required List 7-Top Chord Sections - TI-T.3" T1-T34 T3-T3 . 7- " •• • 1- Pl-es) 2-Plseus) Symm. abt this & ascept las noted 9-Panels @ 22-132+31=198-1112 Marking Diagram - Heavy Truss (7-Spans Alike) Note: Compare templets with EB 2625 Drg # 8 Top Chord Sections - Heavy Truss DUBOISTOWN BRIDGE. over the West Branch of the Susquehonna River. Williamsport Penna. The Commissioners of Lycoming County-Williamsport. Pa Built by <u>EB 2625</u> Dwg.#7 Bethlehem Steel Co Steelton, Pr Dec-14, 1922 Scale #=1:0 Madeby L.G.V. Chkd by t. ...... In Charge (445 Gills 70-71

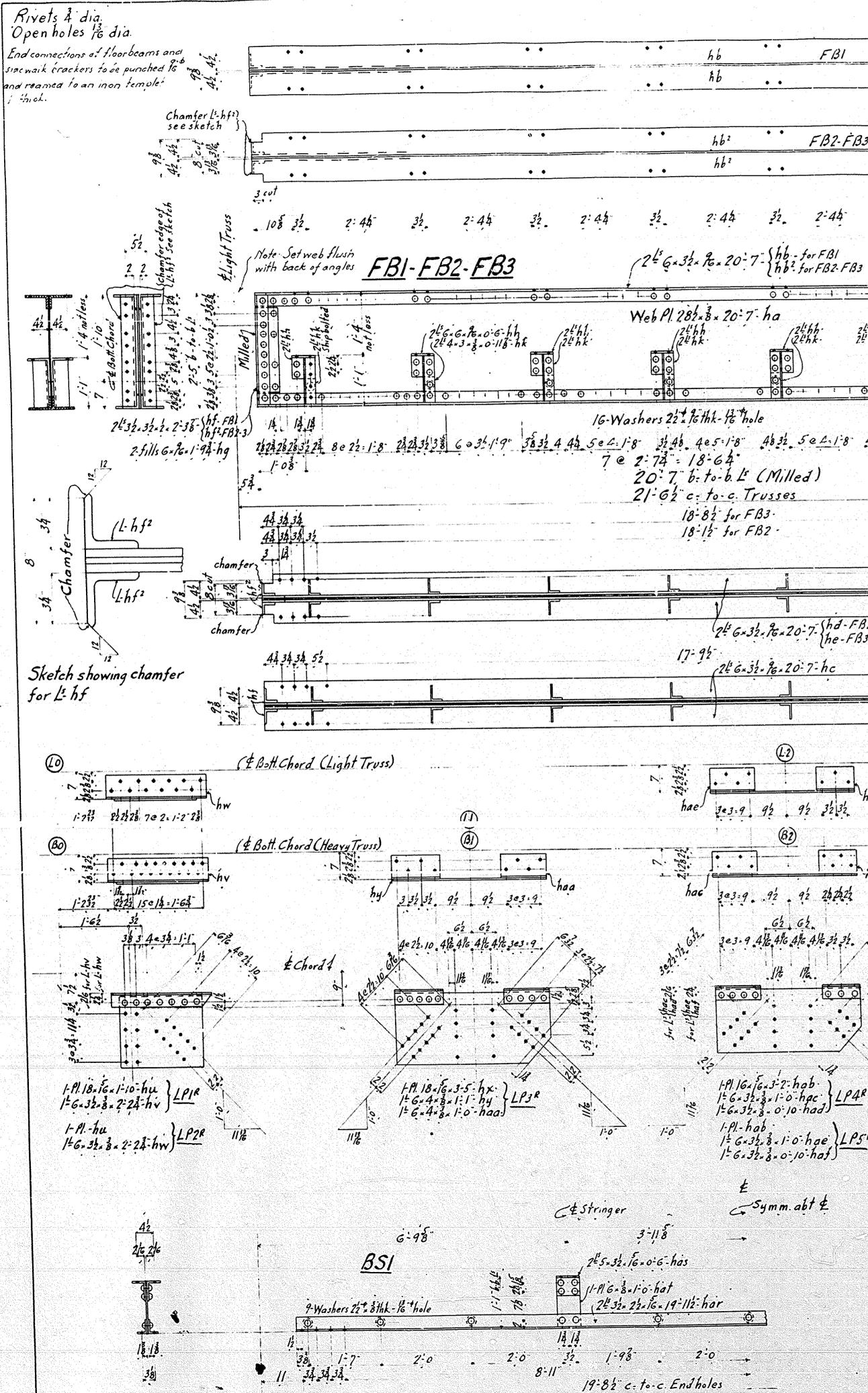


------ 8- 59-10 \*\* 4 29:35" .3**⊕**3= ¶ 2. Fills 12 \$ 10:11-fw (Bolfor) 42 sesi=1:52 43 3e41=1:12,2 dd Required List 7- Top Chord Sections - UI-U3R UI-U3L 7- • • " U3-U3 9-Panels e 22-131132-198-1112 Marking Diagram - Light Truss ( T. Spons Alike) Note: Compare templets with EB2625 Dwg. \* 7 Top Chord Sections Light Truss DUBDISTOWN BRIDGE. over the West Branch of the Susquehanna River. Williamsport Penna. for The Commissioners of Lycoming County. Williamsport. Pa Builtby <u>EB 2625</u> Dwg \*8 Bethlehem Steel Co Steelton, Pa Dec-18-1922 Scale 3: 1:0 Made by L.G.Y. Chkd by In Charge Carboucher



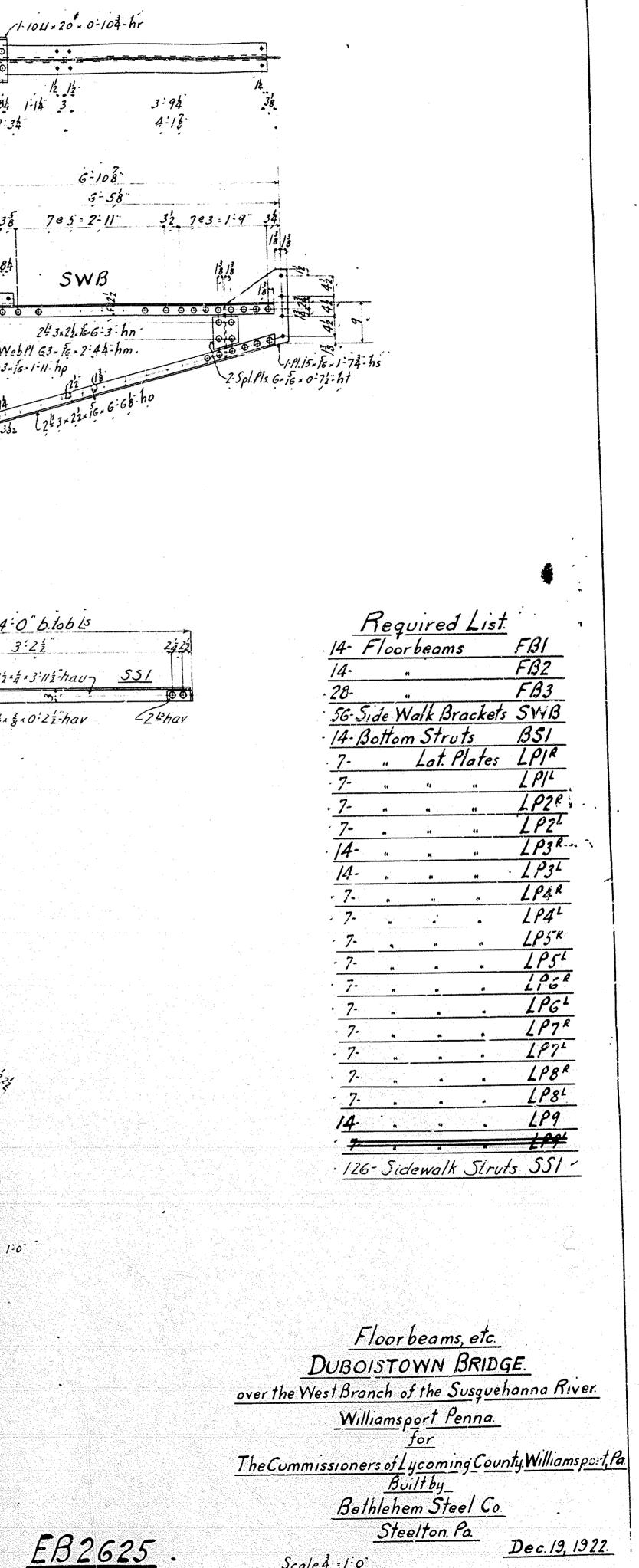
|      | <u> </u>     | Expansion   | n Shoes  | - ES               | •1-                                     | Bed   | Plates                | -BP3R    |
|------|--------------|---|----------|--------------------|---|---|-----------------------|----------|
|      | - 7 -        |   |          | - ES1.             | 그는 그 옷에 들어 가지 않는 것 같아.                  | 121.1   |                       | -BP34 -  |
|      | - 7 -        | Fixed   |          | - FSR.             |   |   | Nests                 |          |
|      | <u>.7</u> -  | <b>.</b>  |          | - FS <sup>1</sup>  | <ul> <li>Available to Strate</li> </ul> | Soften and S |                       | - GP -   |
|      | <u>·6 -</u>  | Bed   | Plates   | BPIR.              |   |   | r Bolts.              |          |
|      | .6 -         | 1   |          | - BP/4.            |   |   |                       |          |
|      | · <u>·</u> [ |   | A        | - BP2 <sup>R</sup> | - 224 -                                 | Bevel   | d Washer              | W1-      |
|      | : <u>1</u> - |   |          | - BP21             | and the second second second second     | Washe   | fair the set of the g | - W2 - v |
| nly) | · <u> </u>   | Beams   | 5        | - CBIR             | Anne and Boyers                         | Beam  |                       | • CB3    |
|      | ·6 -         | n - Contrare a la serie da la contrare da la contra<br>No |          | - CB14             |   |   |                       | · CB4    |
|      | <u> </u>     | •   |          | - CB2R             | A second second second second second    |   |                       | - CB5R   |
|      | <u>.</u>     | •   |          | - C 824            |   |   |                       | · CB51   |
|      |              |   | 영국 영국 영국 | 이 승규는 방송하는 것       |   |   |                       |          |

The Commissioners of Lycoming County, Williamsport Pa.

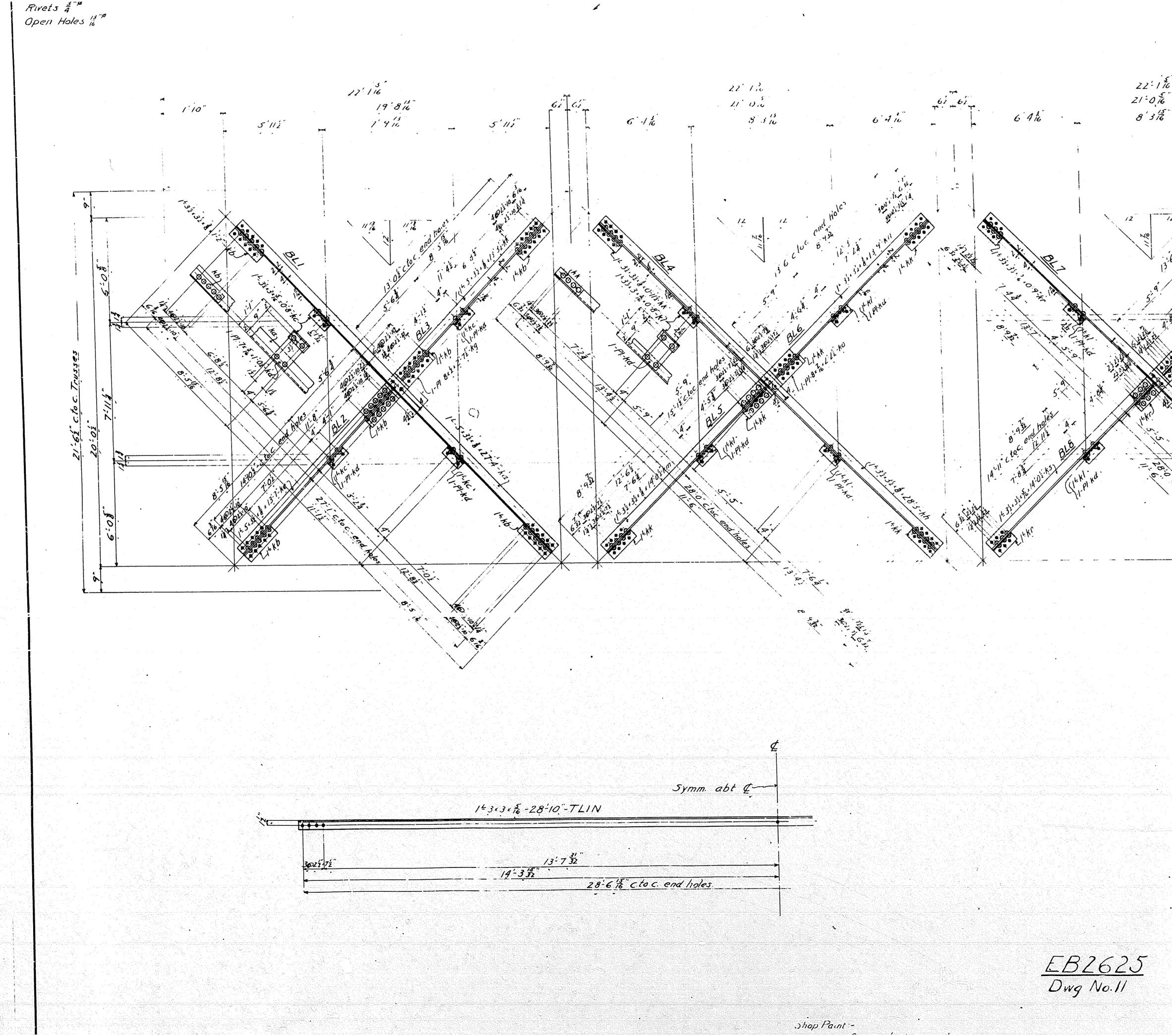


FBI 10 L) 34 35 137 132 0000 • • • . • Chamfer Li-hfi See sketch 44 3024:84 1-14 2:34 FB2-FB3 QQQ • •/ • • 43e3:938 40 24 24 44 2:44-32 31\_ 44 3 24 84 Note Set web flust with back of angles ? 2=4.3.3.0-8.61 • • • • ---- $\odot \odot \odot \odot \odot$ Webpl G3- 56-2:44-hm. 24hh-24hkj 2=4+3+16=1-11-hp 0000 232 232 5' Face the tobear  $\frac{35}{332} \underbrace{4}_{44} \underbrace{5e4.1}_{7e} \underbrace{35}_{32} \underbrace{46}_{6e} \underbrace{4e5.1}_{8} \underbrace{4832}_{8} \underbrace{5e4.1}_{8} \underbrace{44}_{32} \underbrace{33}_{33} \underbrace{6e35.1}_{9} \underbrace{35322424}_{8e22} \underbrace{8e22.1}_{8} \underbrace{743228282424}_{2e32} \underbrace{8e22.1}_{8} \underbrace{74322424}_{2e32} \underbrace{8e22.1}_{8} \underbrace{8e22.1}_{8} \underbrace{743228282424}_{2e32} \underbrace{8e22.1}_{8} \underbrace{74322424}_{2e32} \underbrace{8e22.1}_{8} \underbrace{8e22.1}_{8} \underbrace{74322424}_{2e32} \underbrace{8e22.1}_{8} \underbrace{$ 32 34 34 44 14 3 4:0" b.tob 15 /Chamfer FB2-FB3 1=3+22+4+3-112-11207 (213 Gx 32- 76 = 20-7- Shd-FB2 he-FB3 2.2 14. 246.31× 3×0'22-hav 52 34 34 44 FBI . . . . (4) 7.282827 282822 • • • • • • ••• hal 18 - 24 24 25 10 94 141424 hap' 3 3 3 92 92 3 3 3 hap na ham (B3) 7 · [• • • • • • • • • 82822 • • • 1... . . . • • • k/ 22 14141424 hak han 34 3 3 . 92 . 92 . 3 . 3 24 24 24 24 1214416 92 62 62 32 32 416 416 416 416 32 32 32 32 4/6 4/6 4/6 4/6 32 32 16.1 12.21 12.21 34 24 3 . 72 15 for 1 hah. 16 for 1 hal my. 000 000 (hen (hao 1=6.32.3.1=04.han (118", 1=6.32.3.0-114-hao) s-o-hag) o-10-hahr LPGR LP4R 1. Pl - hag 2#6-32-3-1=0=hap }\_\_\_ 1:0 1 6x32- 3 . 0:102 hak) 1-P!-hag 1+G-32+8-0-10-hal 1+G-32+8+0-102-hal 1+G-32+8+0-102-ham 1= G. 32. 8. 1= 0- hae LP5R 1= G. 32. 8. 0- 10- hat



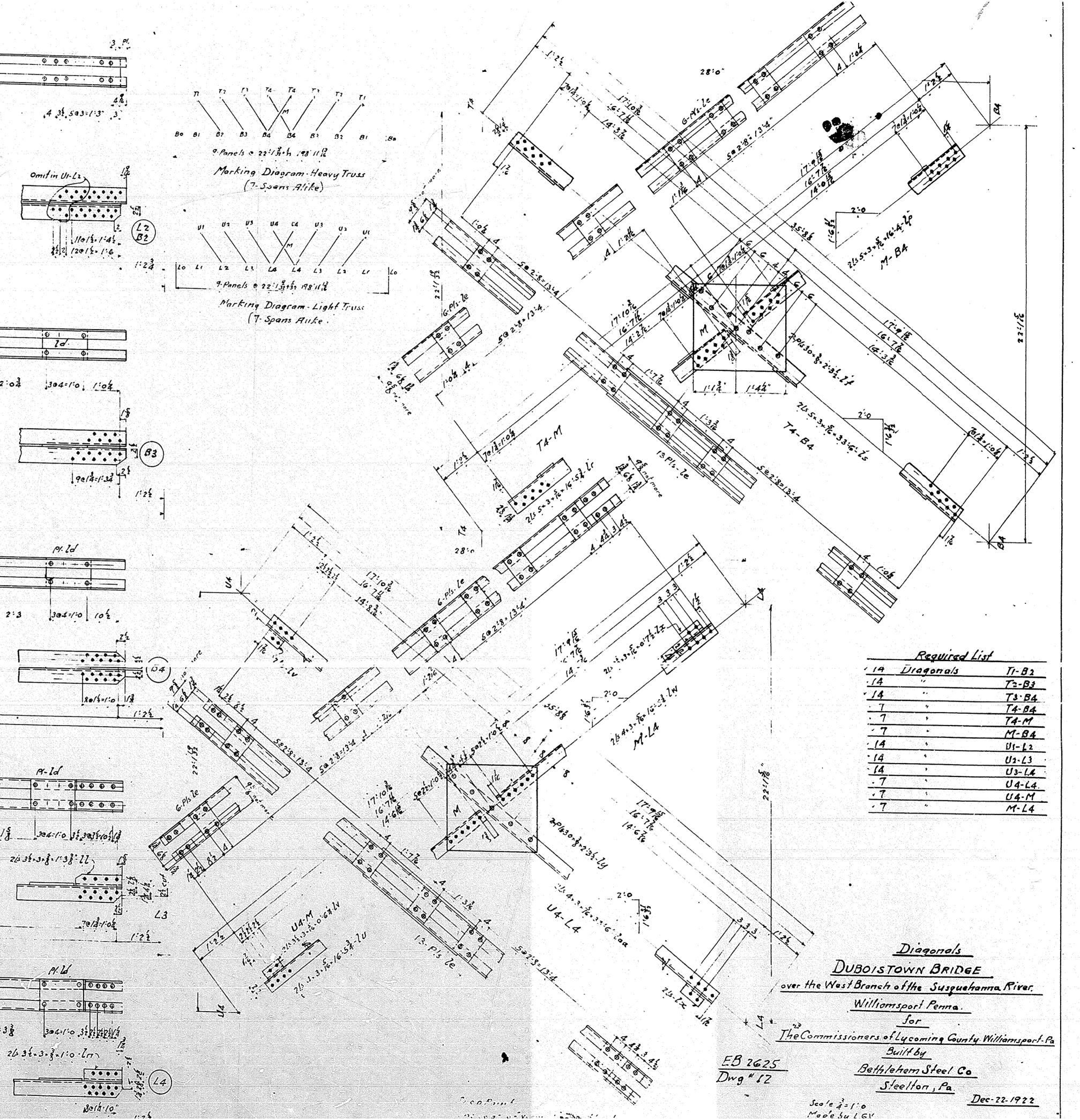


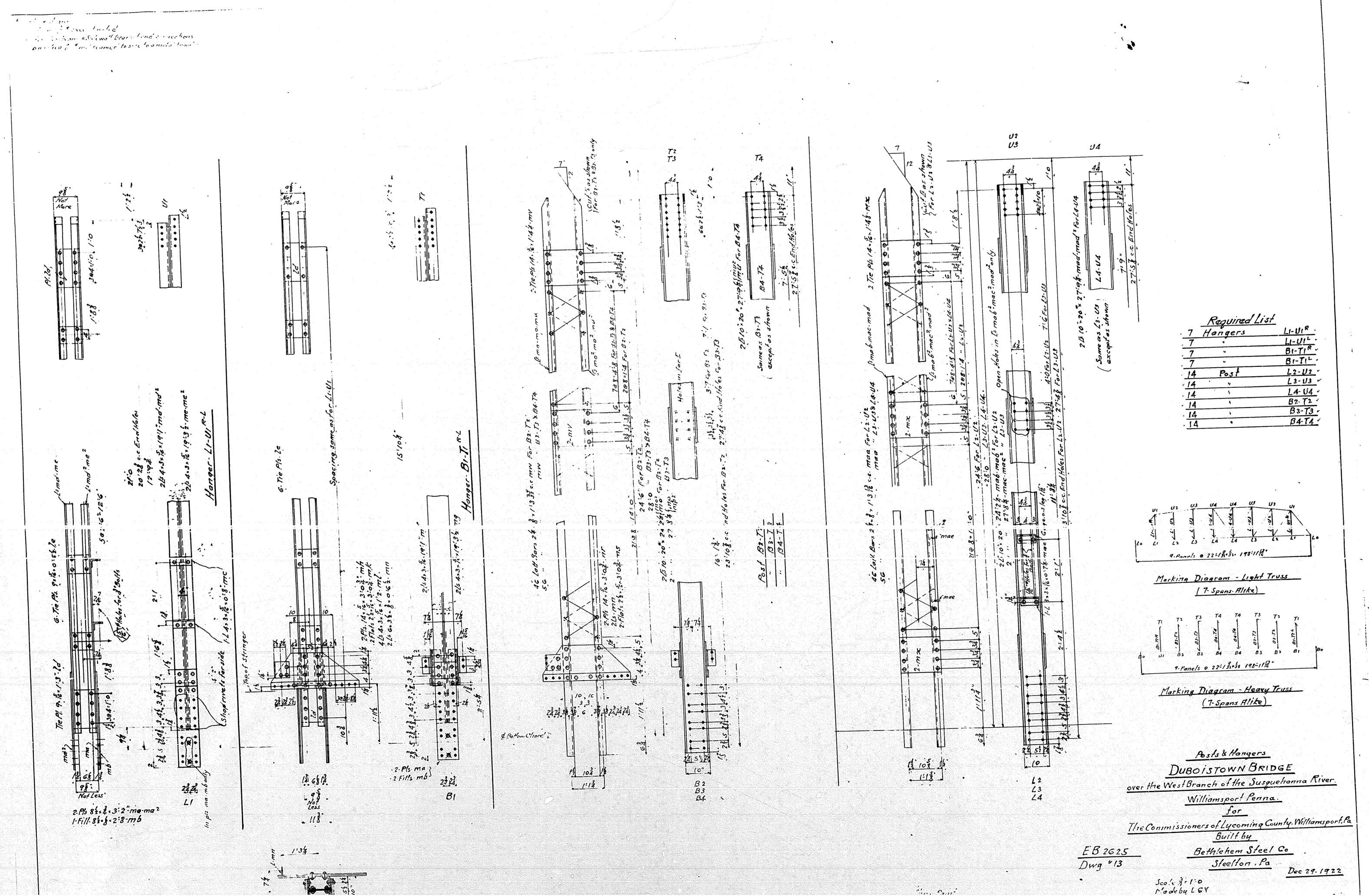
Scale 4 = 1:0

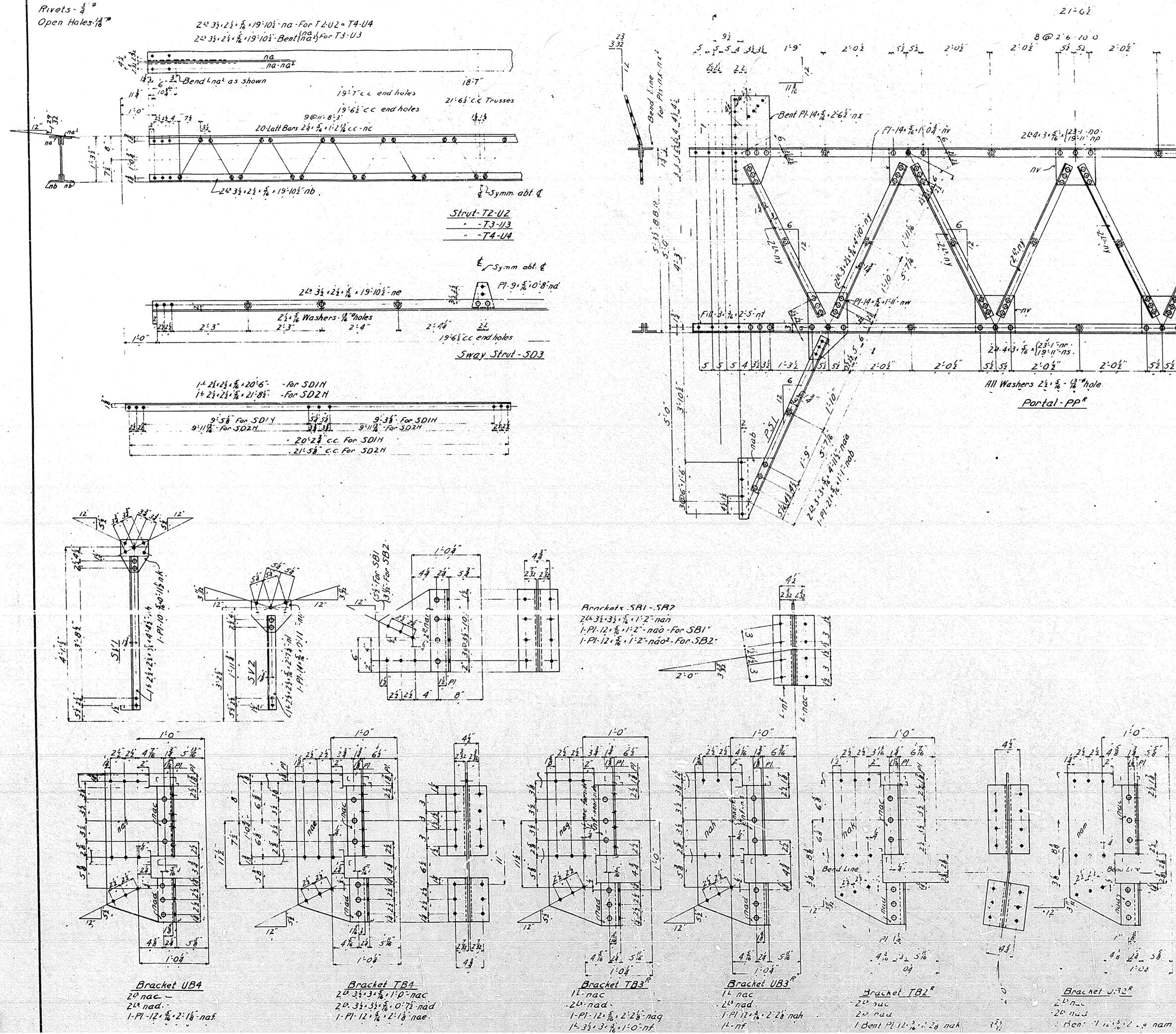


6-4 k <u>REQUIRED LIST</u> - <u>14-Bottom Laterals-BLI</u> BLC -<u>14</u>-" .. <u>BL3</u> BL4 - 14-" - 14 - " BLS BL6 BL7 - 14 - " -14 - " -<u>35-</u> -<u>35-</u> -<u>35-</u> <u>35- " BL8</u> <u>35- " BL9</u> <u>98 Top Laterals TLIN</u> <u>Laterals.</u> DUBOISTOWN BRIDGE over the West Branch of the Susquehanna R. Williamsport, Penna. for The Commissioners of Lycoming County Winspi, Pa <u>Built by</u> Bethlehem Steel Co. Steelton, Pa Dec. 22, 1922. Scale 4 10 Made by - HFH. Traced by - RS.R Chikd by -

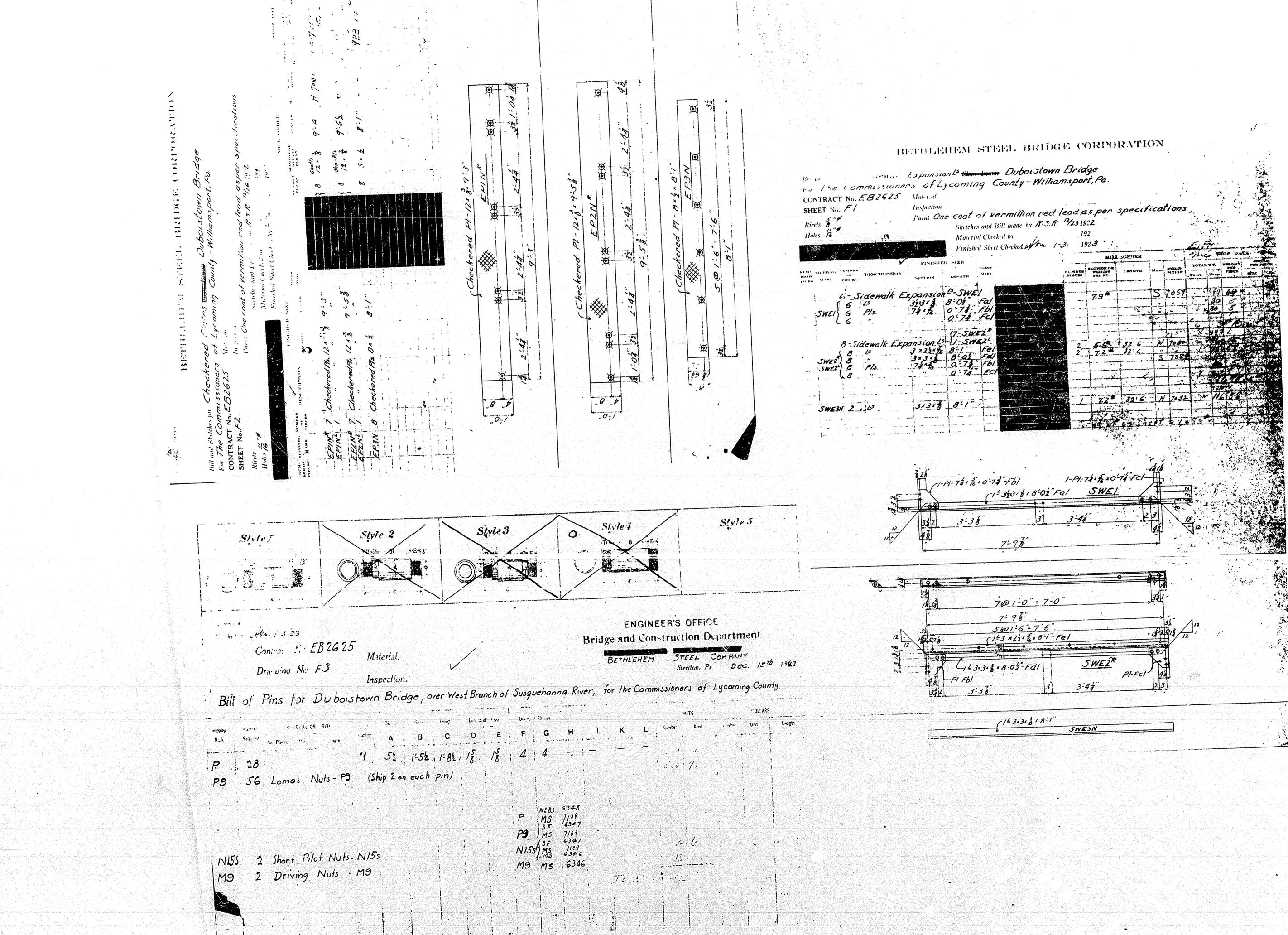
Pl. 9 = 16 = 28 - 24 - Lat For UI-62 " 9 = 3 = 28 - 24 - La " TI-82 95" Nat Nore A 68 12 0011000 001.000 38 503=1:3" 32 32 48 .6: 24:0 Diagonal - UI-12 - TI- B2 Omit in Urlz, 26 5×3×16×28:4.262 For U1-62 26 5×3×2×28:4.26 T1-82 26 5x3= 16x28-4-6c2 For U1-62 26 5x3+2x28-4-6c" T1-B3 1 10012-1-3 25:5% For U1.22 24:5% T1.82 1 1012-1:42 272 1:03 28-27 c.c. End Holes 30=5 15 c.c. Tre Pl. 9x Tex 1:3.1d 10 Tie P's 9x 16x 0:62-le 10 01 1:04 304=1:0 2:02 982.6-22.6 2:04 74: 5×3×16×30:11-2f (72) • • • • • Diagonal-T2-B3 215 5×3×16×30-11-242 80/4-1:2 3 27:11" 30:72 cc End Holes 33:0 .... Il Pls-le A.ld. ······ 102 304-1:0 2:25 10 22-6= 25:0 2:3 215 5x 3x 3x 3 x 33=6-29 Diagonal-T3-B4 26 5x 3x 3x 33:6- 692 31:18 33:27 c.c. End Holes 35-26 c.c. PI-ld Io Pls-le - C - C - C - C - T - T 1 3e37=102 3: 324=1-0 7=18 902:5=21:9 21 5-3 1. 16 1 33-14 Diagonal-Uz-13 • • • 26 5 × 3 × 7 × 30:11 2k U2 8 601 - 10 -28:9 30-74 c.s. End Holes 1:13 33:0 ; Pl. Id 11- P/s. le 0 · · · 0 · 0 7. - · 0 2403=1-0 32 324=1-0 ? 4 (03) 1007-5= 24:2 2:38 26 5 13 2 + 16 + 1-48-10 · · · · Diagonal- U3-L4 26 5 3 . 2 × 33:6- lm 60/2=9 31:7 8 33:2 9 c.c End Holes 1:3



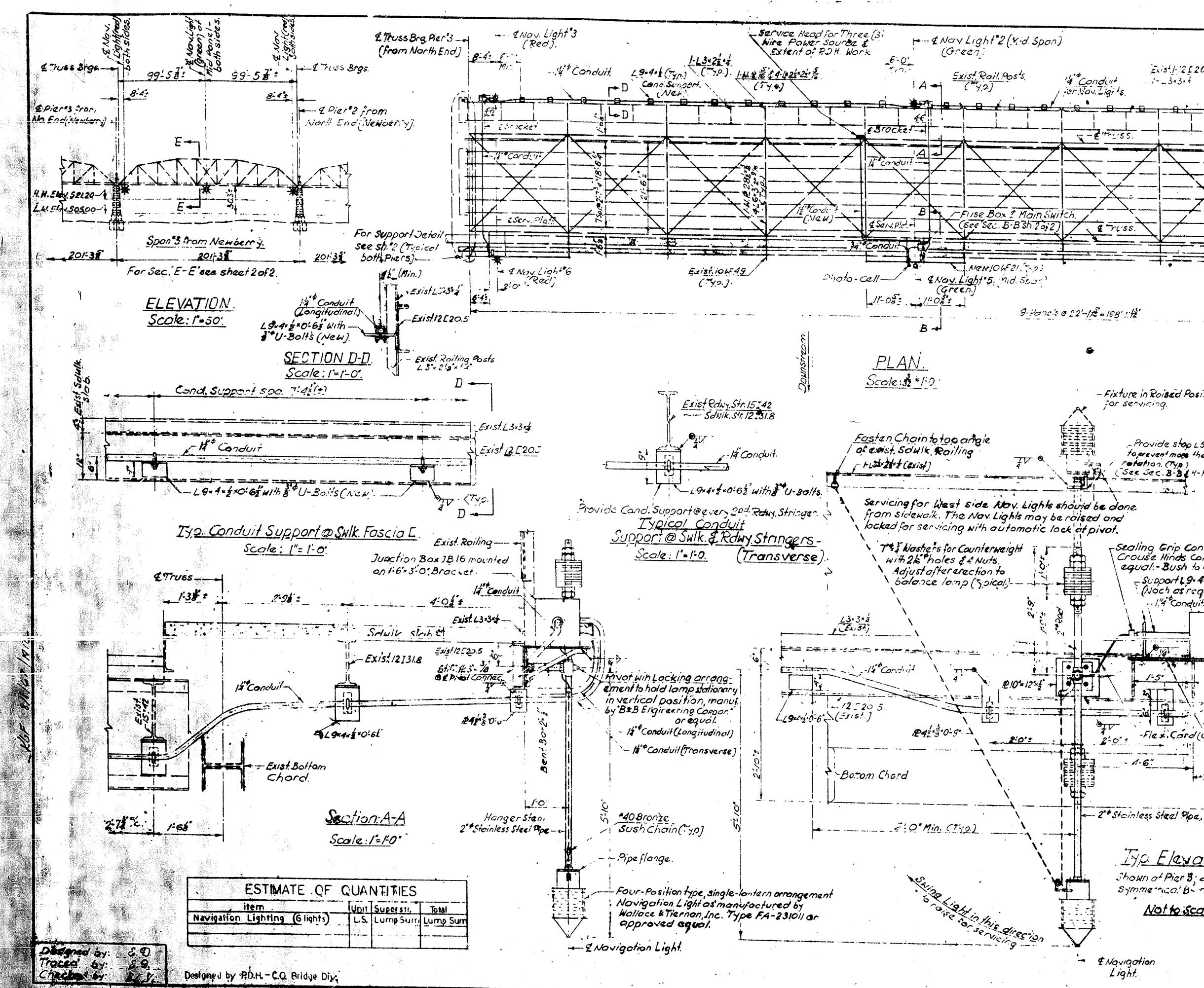




2'02 52 52 2-02 -Bent P! - 14x \$ x2-62-11 x2 Fill-3\*5 2-42-nu 2-02" 52 51 1-33" 32 32 32 5 42 5 52 52 2-02" REQUIRED LIST. 7 - Portals - PP\* - pp<sup>2</sup> - SR2 -7 - " -78 - Reachots -<u>56-</u> -<u>42-Struts</u> -<u>28-</u> - <u>SB</u> - <u>SD</u> - <u>SD</u> - <u>SD</u> - <u>SD</u> - <u>SD</u> - <u>SV</u> - • 56- " 28 · Verticals .14 --28-Struts · 14 - Brackets -<u>14</u> - .. - <u>14</u> - .. - 14 - " •7 - • -7--7 - " -7------ 14 - Struts -<u>T3-U3</u> -<u>T4-U4</u> - 14 - " .14 - " Portalsand Sway Braces DUBOISTOWN BRIDGE. over the West Branch of the Susquehanna River Williamsport, Penna. for The Commissioners of Lycoming County-Williamsport, Pa Built by . . <u>EB2625</u> Dwg.\*14 Bethlehem Steel Co. <u>Steelton, Pa</u> Scale - 3 \* 12:-1:0" Made by - LGV Traced by:-RSR Jan. 5,1923

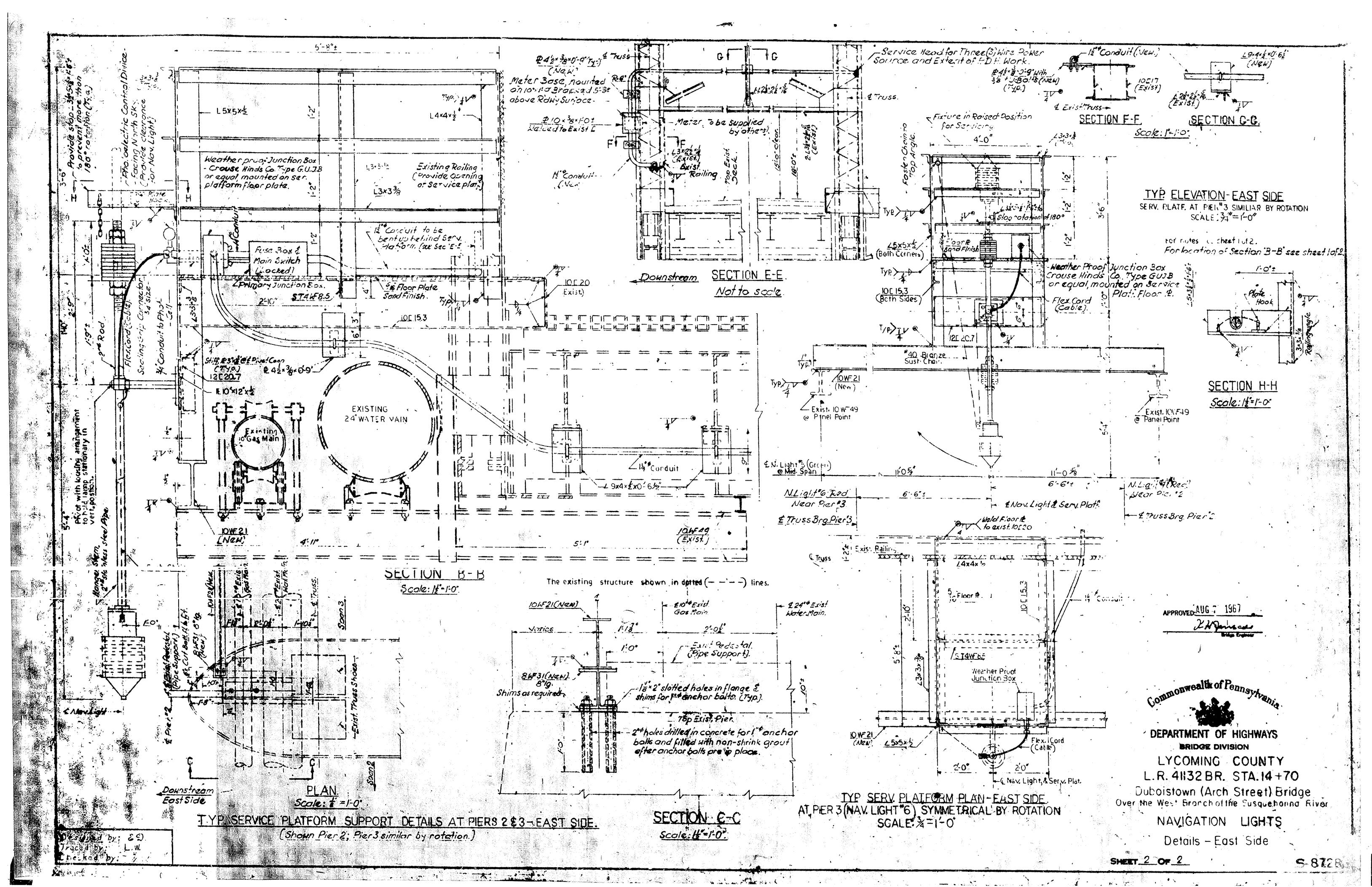


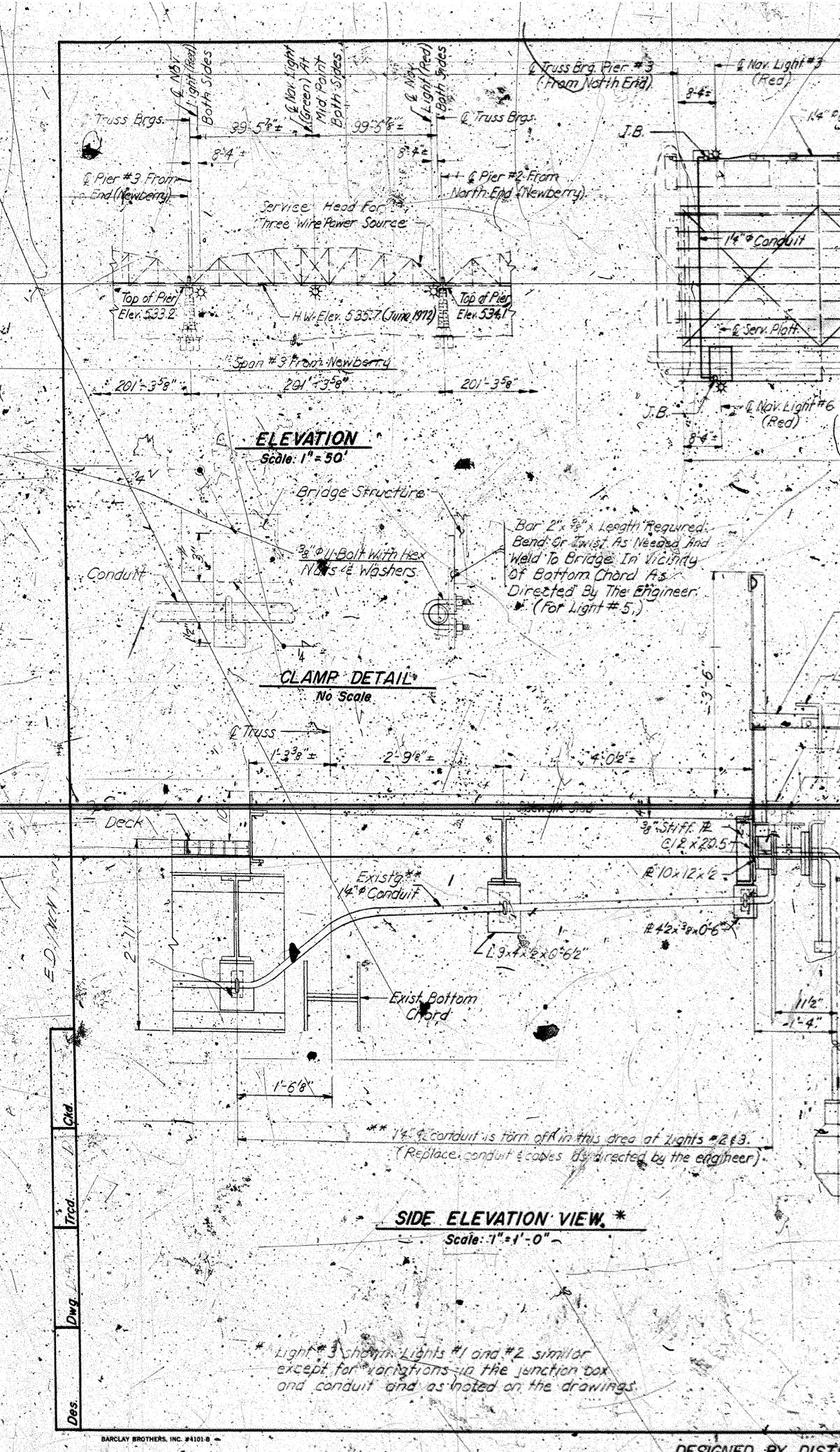
|                     | ينجيهم بهر     |            |       | frank and      | -      |            |                                       | 6 V               | 12       |
|---------------------|----------------|------------|-------|----------------|--------|------------|---------------------------------------|-------------------|----------|
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|                     |                | WWGAT      | WI.   | TOPAL          | arout- |            |                                       | SECTION OR        |          |
|                     | attac          | TUNCK.     | Uning | THURS.         | NITION | 1 MILIA    | L.MR OF LL                            | WEIGHT<br>PME FT. | NSER     |
| 1.5                 |                |            |       |                |        | Î          | ALEXANDER DE LE STAN OF A             |                   | ·····    |
|                     | الم <u>بيد</u> | 64         | 394   |                | 7059   | 1S         | ,                                     | 7.94              |          |
|                     | -              | 5          | 30    | - <sup>4</sup> |        | -          |                                       | 1.3               |          |
| 100 A               |                | 13         | 30    | _ ···          | *      |            | 12                                    |                   |          |
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| Teres               | a              | 17         | 447   | -              |        | +          |                                       |                   |          |
| 44 - S              | ( Sec. 3)      | 44         |       | - 184 F        | 7032   | N          | 3<br>1                                | المعتر مر         |          |
|                     |                | 1          | 10    | List           |        |            | 32:6                                  |                   | 2        |
| e des ve            | 10.00          | 4.3.2      |       |                | 705    | S          |                                       | - A               | <b>4</b> |
|                     |                | 1.1.       |       | ·              |        | _ <u> </u> |                                       |                   | 1        |
| 16.                 | 1.57 En 10     |            |       | t fr           | 4      |            |                                       |                   |          |
|                     |                | 2.2        |       | 1              |        |            |                                       |                   |          |
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|                     | -              |            |       | 1              | 1      |            | A Comment                             |                   |          |
|                     |                |            |       |                |        |            | 100                                   |                   |          |
|                     | -              | - transfer | -     | 13             | \$ 4   | 212        |                                       |                   | 75       |
| <ul> <li></li></ul> |                |            | - wi  |                | 44.5.  |            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The second        |          |



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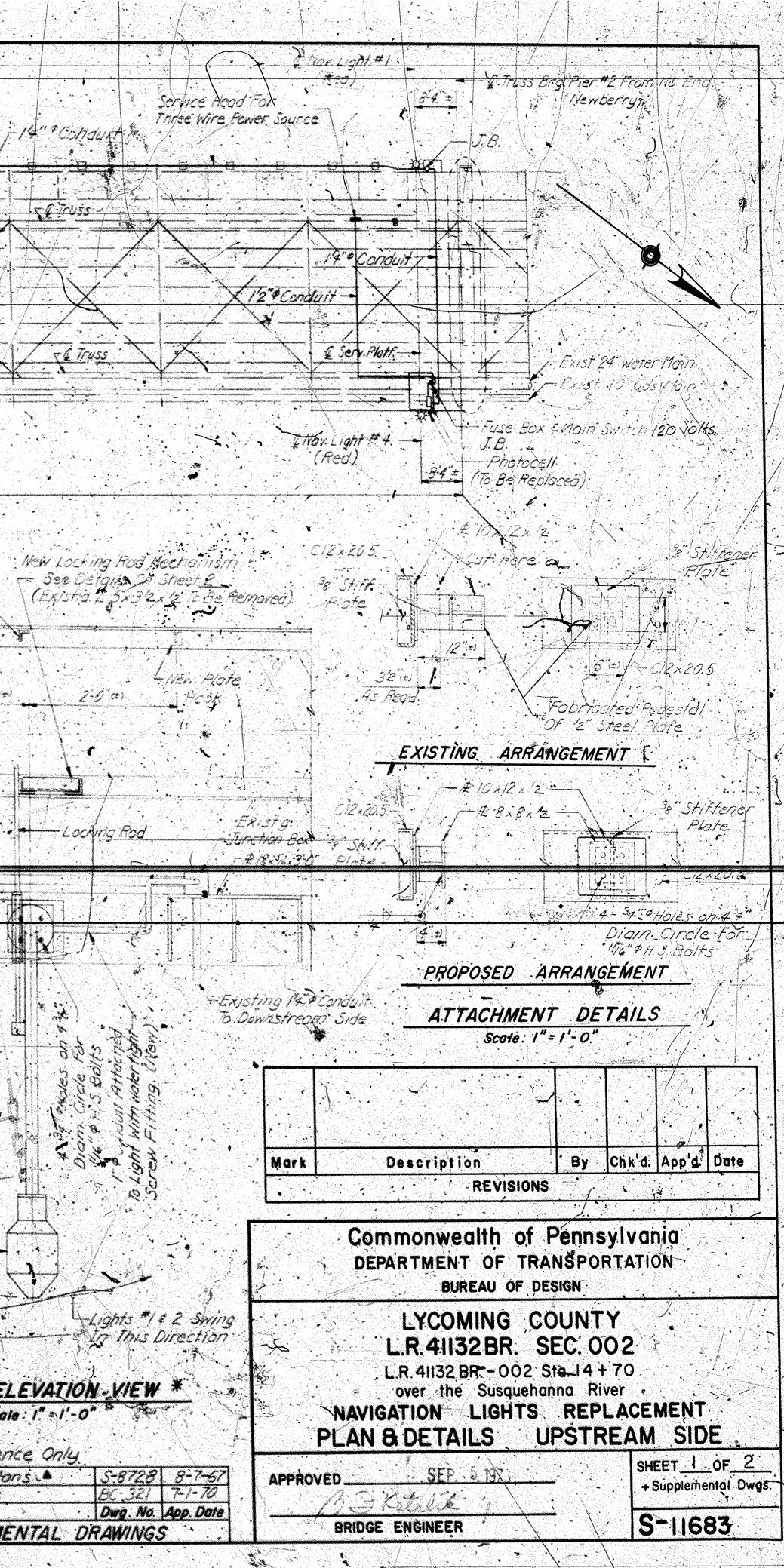
& Nov. Light \*1 ---t Thuss Brg. Pier 2 Aron No. End (Red) (Newserry). Exist.1-12[20.5 C 6'2 8-4: -Jurc. Box J.316 D-2 Elec Mfg. G. Inc. 1-\_3+3+4 Cot. No. 34181212 or opproved equal, Troice for Nov Light 1,283 2 Brocker tour Pla Exist 24 We Moin Exid 10 to the in - Weather Frosi junc. Box - Crouse ENOV. Light "4 Hinds Co. Type GU.75 or equal. (Red) (T- grod for Nov. Lights "4,526] 5-62 2:0 NOTES. All materials and workmanship shall be in accord ance with P.D.H. Form 408/60, Form 409/49, Division 10-Highway Lighting Specifications dated February s - Fixture in Roised Position 1966 and standard specifications for Highway and Railway Bridges. The electrical installation shall conform to regulation ents of " 2 National Electrical Code and shall comply -Provide stop 15+31+1+6's with all local municipal laws and ordinances motying to prevent more than 100. to electrical installations, and requirements of pay have laws and ordinances and Special Provisions. [See Sec. B-B& H-H sh 20;2] Structural steal shall conform to ASTM AS6-des ignation, except as noted. The contractor shell verify in the field all dimensions of the existing structure shown on design drawings before proceeding with the work .: Sealing Grip Connector 4 size Crouse Hinds Co. Type CGB or equal: - Bush to lifbox hub. - Support 1.9. 4. 2. 0:6. Junction Box JB16 0-2 Elec. Mfg. Co. Inc (Noch as required) Cot. Nº YHIBIZIZ or approved equal. -1.4 Conduit -14" Gonduit (Transverse) - H' Conduit (Longitudina'). Mid-Spar act A5 APPROVER AUG.7 1967 2 Aquine 14 Conc 3-Bent Bars' 2' -Flex Cord (coble) (Bracket Supports) R. 18= 3:0" (Wald to Exist. ] Commonwealth of Pennsylvania +2 Bracket DEPARTMENT OF HIGHWAYS BRIDGE DIVISION IYO Elevation West Side. LYCOMING COUNTY Shown of Pier 3; of Pizr 2 & Mid. Spon. Symmetrical B- retation. L.R. 41132 BR. STA. 14+70 Duböistown (Arch Street) Bridge Not to scale. Oventre Vicst Branch of the Susquehains River NAVIGATION LIGHTS General Plan, Elevation, & Details SHERT 1 OF 2. **S-8728** 

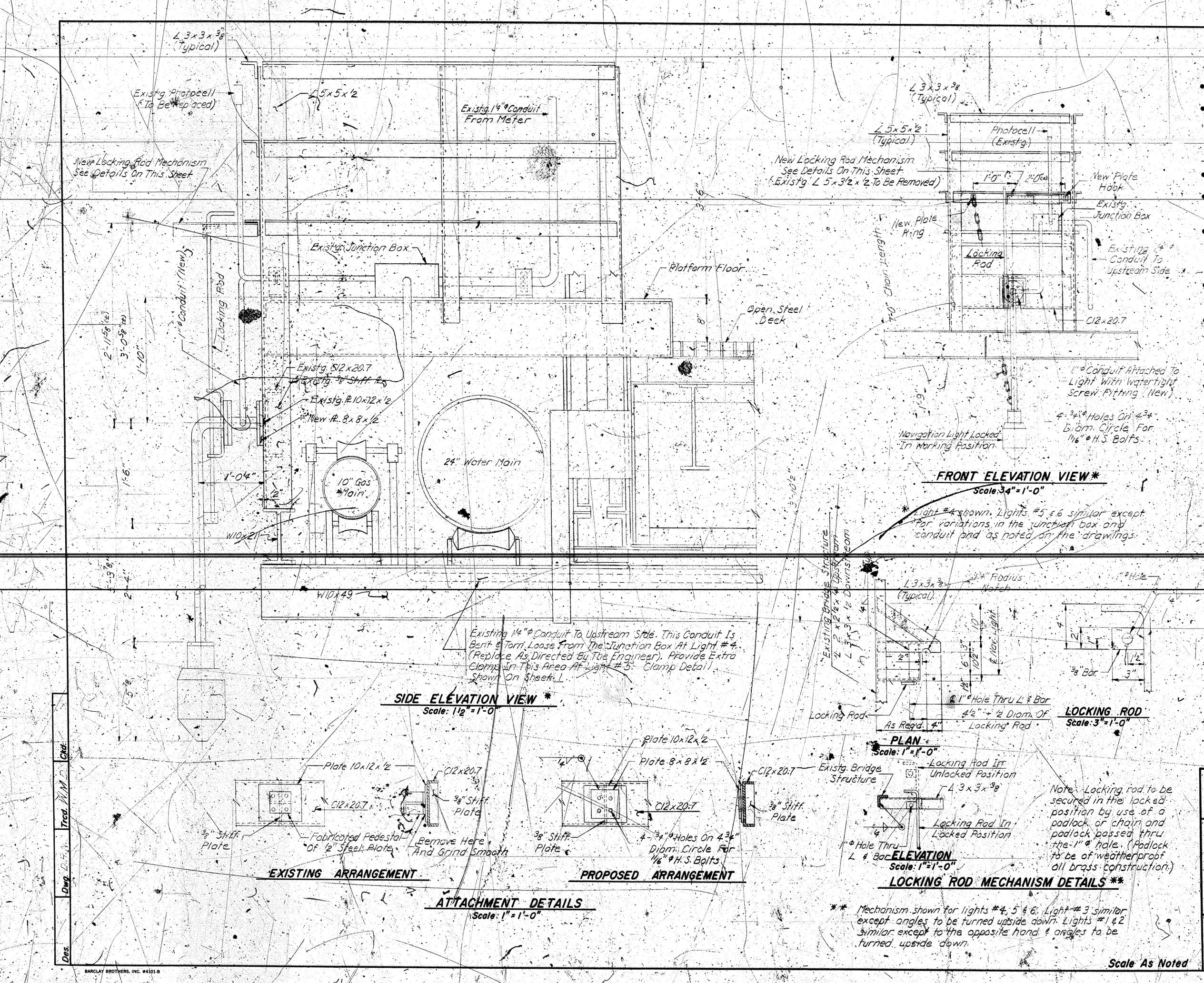




- © Nov. Light #2 (Mid Spon) (Green) . wo -Conduit Support 14 Conduit -14" \* Condu (Typical) zf Iruss 14 Condu CServ. Plotf ---Truss 3 4 Nov Light #5 (Mid Spon) ----J.B. (Green) 198711.16 PLAN New Locking Rod Mechanism. Scole: 1" = 10 '-0" Existing L to be removed L-32×212×14 CTYP, New Locking Rod Mechanism • Neve Plates. See Details On Sheet 2 2.5° ¢) Rac **-1:0**ck///g) 123x3x4. EXISTS J.B. V z Cº Conduit -Locking Red <u>Siderick</u> Floor New) Existig. 4" # Sondult 11/2" Novigation Lighting System LS 1.5 Removal of Portion of Existing New Lighting System L.S. L.S. AMG 10 Elect. Cable, Type THIN, I Cond 15 LF. 50 It & Galv. Rigid Steel Conduit. 1.8 25 Complete Testing of Entire Navigation Lighting System L.S. L.S. 1'4" · Galv: Rigid Steel Conduit 18 1. L.F. 30 Novigation Light Locked In Working Postion Photocell Unit 1 -UniA Novigotión Lights .-**6**. Fabricated Structural Steel 163, 270 ITEM Unit Total Light #3 String In This Direction SUMMARY OF APPROX. QUANTITIES, Di These itens are incidental to the lump sum item for Novigation Lighting System Quantity is shown for informational purposes Snly. FRONT ELEVATION VIEW \* Scale : 1." = 1'-0" + For Reference Only Original Design Plans Electrical Details Description SUPPLEMENTAL DRAWINGS Scale As Noted

DESIGNED BY DISTRICT 3-0 BRIDGE UNIT





### GENERAL NOTES

· Moterials and workmaniship shall be in occar dance. Fications, Forms 408/73, 409/73 Sacci Provisions " The evertical installation shall conform to require ments of the Retisnol-Electrical Code and shall comply with out iscal - municipal laws and ordinances applying to electricat installations, and requirements of any local lows and Cordinances applying to electrical installations and Struched Special Provisions.

· Structural steel shall conform to ASTM-A36 Designation except where noted otherwise. . The contractor shall verify in the field all dimens the existing structure shown on design drowings before

proceeding with the work. . Novigation Lights shall be provided as Follows :. Red lights visible for 1.80°, 12 volts, 16 condiepower, 8 wort lanips (Pennwalt Part No. F.P. 1620 or approved equal), Sreen Viakts visible for 360°, 72 volts, 4 condebower, 8 wo 4 Jamos, Pennwalt Port. No. FP-1620 or approved equally. Extreme core shall be exercised when we ding near gas

pipe. Contractor shall inform the gas company of vielding time" and duration. All new structural steel and any preas damaged by welding shall be treated and painted in accordance with Form

409, except finish coat shall match the existing structure. · Electrode's shall be of the low nudrogen type conforming to

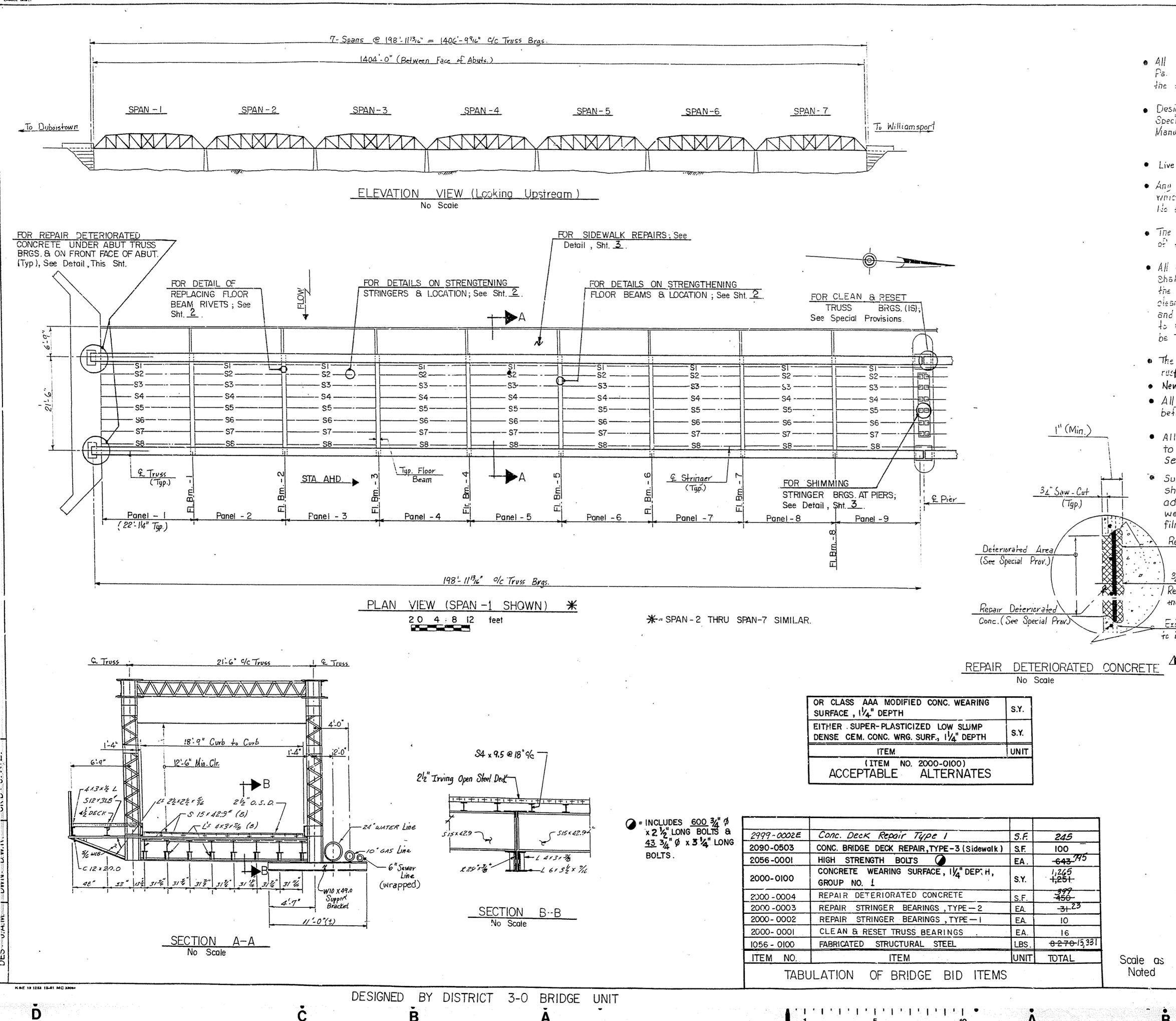
AWS Classification E7016 ETG18 or E7028. Tack welds shall be made with the same type of electrode as the Final weld.

· No welding will be allowed when surfaces are well or -exposed to roin, snow or wind or when welders ore exposed to peclement conditions that will hamper good workmanship. Any moisture from fog, dew etc. presen of the point of welding, shall be driven off by heat, before welding commences. Windbreaks shall be required to protect working areas from sirect wind. · Surfaces of existing metal which are to be covered bu new material shall be cleaned of dirt rust and other foreign matter except adherent point film. The portions of such surfaces that are its/receive velds shall be cleaned thoroughly of all Foreign matter, including point film, for a distance of the

· Ports of the lighting system where point has be sholl be repainted as directed by the engineer. r be as called for on these plans and as directed by the Engineer. Such removed hardware & Lights shall be the property of the contractor.

By Chk'd. App'd. Date Mark Description REVISIONS

Commonwealth of Pennsylvania DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN LYCOMING COUNTY L.R.41132BR. SEC. 002 L.R. 41132 BR. - 002 Sta. 14 + 70 over the Susquehanna River NAVIGATION LIGHTS REPLACEMENT DOWNSTREAM SIDE DETAILS SHEET 2 OF 2 APPROVED S-11683 BRIDGE ENGINE ER Scale As Noted



### GENERAL NOTES

• All Nisterials and Workmanship shall be in accordance with the Pa. Dept. of Transportation Specifications Publication 402/05 and the Special Provisions.

• Design Specifications : Design Division of 1983 A.A.S.H.T.O. "Standard Specifications for Highway Bridges " and as supplemented by the Design Mianual, Part 4, Structures. (Including 6-83 Revisions).

• Live Loads : H20, HS20, and ML80 Loading

• Any portion of the Existing structure not specified for Renoval, which is damaged by the Contractor shall be replaced in Kine at No expense to the Department.

• The Engineer reserves the viant to change the nature and limits of the work to assure a satisfactory repair.

· All existing concrete that is to come in contact with new concrete Shall be could with Epony Epinaira Compound just prior to placing the new concrete. The existing concrete Shall be thoroughly blant cleaned prior to the Application of the Epoxy. The cost of cleaning and Epoxy Application Shall be incidental to the repair item to which it is applied. The Epoxy Resin Bonding Compound Shall be Type II, Grade E, as described in ASTM CESI-TE.

• The existing Reinforcement bars shall be cleaned to remove one rust, dirt or foreiar material prior to pouring new concretz. • New Steel ASTM-A36, \$ H.S. bolts ASTM-A325. • All dimensions shall be verified in the field by the Contractor before the start of construction.

• All materials and equipment used for jacking are incidental to Item for Clean and Reset Truss Bearings. For Jacking Details, See Sheet 4.

Surfaces of existing metal which are to be covered by new material shall be cleaned of dirt, rust and other foreign matter except adherent paint film. The portions of such surfaces that are to receive welds shall be cleaned thoroughly of all foreign matter including paint film for a distance of two in ches from each side of the outside lines of weld. Remove to Sound Conc

| 4" Min    | Clear if |
|-----------|----------|
| edair ext |          |
| ie re-Da  | r        |
|           |          |

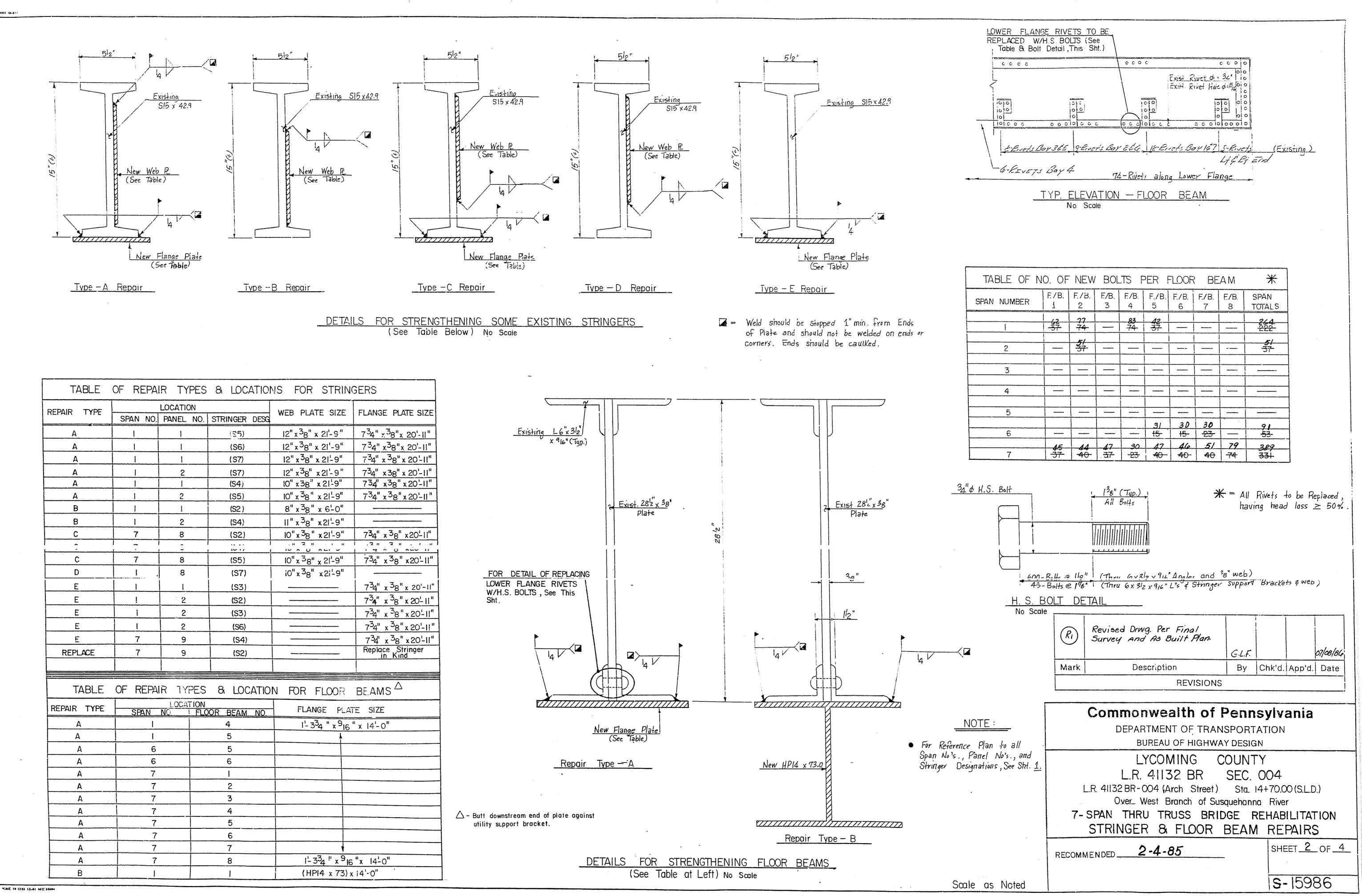
▲=Includes Approx. <u>300</u> S.F. on Near Abut. Face & Bearing Areas and Approx. سيستعين والدواسيروك المستام الولاس الوال T ULLIN L Areas.

Existing Ke-Dars TO DE DIEST CIEBRED È Retained.

| (R,  | Revised Drwg. Per Final<br>Survey and As Built Plan. | G.L.F.   |                 | 07/08/86 |
|------|--|----------|-----------------|----------|
| Mark | Description  | By       | · Chk'd.IApp'd. | Date     |
|      | REVISIONS  | <u>`</u> |                 |          |

| Commonwealth of Pennsylva                     | ania       |
|---|------------|
| DEPARTMENT OF TRANSPORTATION                  |            |
| BUREAU OF HIGHWAY DESIGN                      |            |
| LYCOMING COUNTY                               |            |
| L.R. 41132 BR SEC. 004                        |            |
| L.R. 41132 BR-004 (Arch Street) Sta. 14+70.00 | D (S.L.D.) |
| Over West Branch of Susquehanna River         |            |
| 7-SPAN THRU TRUSS BRIDGE REHABI               | LITATION   |
| GENERAL PLAN                                  |            |
| RECOMMENDED 2-4-85 SHE                        |            |
| R.C. anne                                     |            |
| DIST. BRIDGE ENGINEER S-                      | 15986      |

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| REPAIR         TYPE         LOCATION         WEB         PLATE         SIZE         FLANGE         PLATE         SIZE           A         I         I         (\$5)         I2" x 3e" x 2I-9" $734" x 3e" x 20-11"$ A         I         I         (\$5)         I2" x 3e" x 2I-9" $734" x 3e" x 20-11"$ A         I         I         IST  | TABLE (                                | OF REPA   | IR TYP        | ES         | & LOCATIO                              | NS FOR STRIM                    | NGERS   |
|--|--|---|---------------|------------|--|---------------------------------|---|
| A       I       I       ISS       I2" $x^3 B" x 2I - B"$ $7^3 A" x^3 B" x 2O - II"$ A       I       I       ISSO       I2" $x^3 B" x 2I - B"$ $7^3 A" x^3 B" x 2O - II"$ A       I       I       ISSO       I2" $x^3 B" x 2I - B"$ $7^3 A" x^3 B" x 2O - II"$ A       I       I       ISSO       I2" $x^3 B" x 2I - B"$ $7^3 A" x^3 B" x 2D - II"$ A       I       I       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ A       I       I       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ B       I       I       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ C       7       B       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ C       7       B       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ D       I       8       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ E       I       2       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$ D       I       8       ISSO       ID" $x^3 B" x 2I - 9"$ $7^3 A" x^3 B" x 2D - II"$   |  | ****  | LOCATION      | J          |  |                                 | -   |
| A       I       I       ISS       I2*x36" x 2I-9" $734" x36" x 20-11"$ A       I       I       IST       I2*x36" x 2I-9" $734" x36" x 20-11"$ A       I       2       IST       I2*x36" x 2I-9" $734" x36" x 20-11"$ A       I       I       ISS       I2*x36" x 2I-9" $734" x36" x 20-11"$ A       I       I       ISS       I0*x36" x 2I-9" $734" x36" x 20-11"$ A       I       I       ISS       I0*x36" x 2I-9" $734" x36" x 20-11"$ B       I       I       ISS       8" x 2I-9" $734" x36" x 20-11"$ B       I       I       ISS       I0" x 36" x 2I-9" $734" x 36" x 20-11"$ C       7       8       ISS       I0" x 36" x 2I-9" $734" x 36" x 20-11"$ C       7       8       ISS       I0" x 36" x 2I-9" $734" x 36" x 20-11"$ D       I       8       ISS       I0" x 36" x 2I-9" $734" x 36" x 20-11"$ E       I       2       ISS       I0" x 36" x 2I-9" $734" x 36" x 20-11"$ E       I       2       ISS       ISS       ISS       ISS       ISS </td <td>Λ</td> <td>JIAN NU.</td> <td></td> <td><u>vO.</u></td> <td></td> <td>12"+30" + 21" 0"</td> <td>734" "30"" 00' ""</td>   | Λ                                      | JIAN NU.  |               | <u>vO.</u> |  | 12"+30" + 21" 0"                | 734" "30"" 00' ""                             |
| A       I       I       IST (ST)       I2" $x^3 b" x 21 - b"$ $73 b" x 3b" x 20 - 11"$ A       I       2       IST (ST)       I2" $x^3 b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ A       I       2       IST (ST)       I2" $x^3 b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ A       I       2       IST (ST)       I0" $x 3b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ A       I       2       IST (ST)       I0" $x 3b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ B       I       I       ISS (ST)       I0" $x^3 b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ C       7       8       ISS (ST)       I0" $x^3 b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ C       7       8       ISS (ST)       I0" $x^3 b" x 21 - b"$ $73 d" x 3b" x 20 - 11"$ D       I       8       ISS (ST)       I0" $x^3 b" x 20 - 11"$ $73 d" x 3b" x 20 - 11"$ D       I       8       ISS (ST)       I0" $x^3 b" x 20 - 11"$ $73 d" x 3b" x 20 - 11"$ D       I       8       ISS (ST)       I0" $x^3 b" x 20 - 11"$ $73 d" x 3b" x 20 - 11"$ E       I       2       ISS (ST)       I0" $x^3 b" x 20 - 11"$ II" $x^$  |  | 1   | 1             |            | ······································ |                                 |   |
| A       I       2       (S7)       I2" $x^3 g^* x 2l^1 - 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ A       I       I       ISA       IO" $x 3g^* x 2l^2 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ A       I       2       (S5)       IO" $x 3g^* x 2l^2 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ B       I       2       (S5)       IO" $x^3 g^* x 2l^2 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ B       I       2       (S4)       II" $x^3 g^* x 2l^2 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ C       7       8       (S2)       0" $x^3 g^* x 2l^2 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ C       7       8       (S5)       IO" $x^3 g^* x 2l^2 - 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ D       I       8       (S7)       iO" $x^3 g^* x 2l^2 - 9^*$ $73^4 x 3g^* x 20^2 - 11^*$ E       I       2       (S2) $73^4 x 3g^* x 20^2 - 11^*$ E       I       2       (S3) $73^4 x 3g^* x 20^2 - 11^*$ E       I       2       (S3) $73^4 x 3g^* x 20^2 - 11^*$ E       I       2       (S3) $73^4 x 3g^* x 20^2 - 11^*$ E  |  |   |               |            |  |                                 |   |
| A       I       I       (S4)       IO" x36" x21-9" $734" x36" x20-11"$ A       I       2       (S5)       IO" x36" x21-9" $734" x36" x20-11"$ B       I       I       (S2)       8" x36" x21-9" $734" x36" x20-11"$ B       I       2       (S4)       III "x36" x21-9" $$ C       7       8       (S2)       IU" x36" x21-9" $734" x36" x20-11"$ C       7       8       (S5)       IO" x36" x21-9" $734" x36" x20-11"$ C       7       8       (S5)       IO" x36" x21-9" $734" x36" x20-11"$ D       1       8       (S7)       io" x36" x21-9" $$ E       1       1       (S3) $$ $734" x36" x20-11"         D       1       8       (S7)       io" x36" x21-9"                E       1       2       (S3)       $  |  |   |               |            |  |                                 |   |
| A       I       2       (S5)       IO" x $38" x 21! 9"$ $734" x 38" x 20! 11"$ B       I       I       (S2)       8" x $38" x 6! 0"$   |  |   | 1             |            |  |                                 |   |
| B       I       I       (S2) $8"x^3g"x^6Lo"$ B       I       2       (S4)       III"x^3g"x2lL9"          C       7       8       (S2)       IO"x3g"x2lL9"          C       7       8       (S2)       IO"x3g"x2lL9"          C       7       8       (S5)       IO"x3g"x2lL9"          C       7       8       (S5)       IO"x3g"x2lL9"          C       7       8       (S5)       IO"x3g"x2lL9"          E       I       I       (S3)  |  |   | 2             |            | 1                                      |                                 |   |
| B       I       2       (S4)       III " $x^3 B" x 2I^1 9"$  | 1                                      | 1   | <u>د</u><br>۱ |            |  |                                 | <u>1°4 x°8 x20-11</u>                         |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  |  | 1   | <u> </u>      |            |  |                                 |   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |  |   | ······        |            |  |                                 |   |
| C       7       8       (S5) $10^{n}x^{3}8^{n}x^{2}1^{1}9^{n}$ $734^{n}x^{3}8^{n}x^{2}0^{-11^{n}}$ D       I       8       (S7) $10^{n}x^{3}8^{n}x^{21^{1}9^{n}}$ $$ E       I       I       (S3) $$ $734^{n}x^{3}8^{n}x^{20^{-11^{n}}}$ E       I       2       (S2) $$ $734^{n}x^{3}8^{n}x^{20^{-11^{n}}}$ E       I       2       (S3) $$ $734^{n}x^{3}8^{n}x^{20^{-11^{n}}}$ E       7       9       (S4) $$ $734^{n}x^{3}8^{n}x^{20^{-11^{n}}}$ REPLACE       7       9       (S2) $$ Replace Stringer         TABLE       OF       REPAIR       TYPES       8       LOCATION       FLANGE       PLATE       SIZE         A   |  | /<br>   | 8             |            |  | 10" x 28" x 21-9"               |   |
| D       I       8       (S7) $i0^{\circ}x^{3}g^{\circ}x^{2}i^{-9^{\circ}}$ E       I       I       (S3)       734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S2)       734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S3)       734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S3)       734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S3)       734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S6)       734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S4)       -734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         E       I       2       (S4)       -734^{\circ}x^{3}g^{\circ}x^{2}0^{\circ}x^{2}0^{-11^{\circ}}         REPLACE       7       9       (S2)       -734^{\circ}x^{3}g^{\circ}x^{2}0^{-11^{\circ}}         TABLE       OF       REPAIR       TYPES       8       LOCATION       FLANGE       PLATE       SIZE | t                                      | -   | <u>.</u>      |            |  |                                 | 1 1 7 1 0 ALV 11                              |
| E       I       I       IS33   |  | 1   |               |            | ······································ |                                 | 7º4" x º8" x20'-11"                           |
| E       I       2       (S2) $734" x^36" x^{20} l l^{11}$ E       I       2       (S3) $734" x^36" x^{20} l l^{11}$ E       I       2       (S6) $734" x^36" x^{20} l l^{11}$ E       I       2       (S6) $734" x^36" x^{20} l l^{11}$ E       I       2       (S6) $734" x^36" x^{20} l l^{11}$ E       7       9       (S4) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ REPLACE       7       9       (S2) $734" x^36" x^{20} l l^{11}$ A       1       4       ILOCATION       FLANGE       PLATE       SIZE         A       1       4       I l l l^34" x^9 l6" x  |  | and an analysis of the second s | 8             |            | (S7)                                   | i0" x <sup>3</sup> 8" x 2ì - 9" |   |
| E       i       2       (S3)   | E                                      | 1   | 1             |            | (S3)                                   |                                 |   |
| E       I       2       (S6) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ E       7       9       (S4) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}8" \times 20^{1}11"$ REPLACE       7       9       (S2) $7^{3}4" \times ^{3}16" \times 14^{1}0"$ REPLACE       9       (S2) $7^{3}4" \times ^{3}16" \times 14^{1}0"$ A       1       4       1^{1} - 3^{3}4" \times ^{9}16" \times 14^{1} - 0"         A       7       2       2       2         A       7       4       2       2 <th2< th=""></th2<>  | E                                      | 1   | <u>2</u>      |            | (S2)                                   |                                 | 7 <sup>3</sup> 4" x <sup>3</sup> 8" x 20-11"  |
| E       7       9       (S4)       73/4 $x^3/8$ " $x^{20}$ -11"         REPLACE       7       9       (S2)       Replace       Stringer         TABLE       OF       REPAIR       TYPES       & LOCATION       FOR       FLOOR       BE.AMS $\triangle$ REPAIR       TYPE       LOCATION       FLOOR       BEAM       NO       FLANGE       PLATE       SIZE         A       1       4       1'-334<" $x^9$ 16" $x$ 14'-0" $A$ $A$ $A$ $A$ A       6       5 $A$ <   | E                                      | 1   | 2             |            | (\$3)                                  |                                 | 7 <sup>3</sup> 4" x <sup>3</sup> 8" x 20'-11" |
| REPLACE79(S2)Replace Stringer<br>in KindTABLEOFREPAIR<br>I YPESSRLOCATION<br>FLOORFORFLOORBEAMS $\triangle$ REPAIR<br>TYPEICATION<br>SPAN<br>NOFLOOR<br>   | E                                      | <u> </u>  | 2             | [          | (S6)                                   |                                 | 7 <sup>3</sup> 4" x <sup>3</sup> 8" x 20'-1!" |
| REPLACE79(S2)Replace Stringer<br>in KindTABLEOFREPAIR<br>I YPESSRLOCATION<br>FLOORFORFLOORBEAMS $\triangle$ REPAIR<br>TYPEICATION<br>SPAN<br>NOFLOOR<br>FLOORBEAMS $\triangle$ $\triangle$ AI4I'-334<br>SA"x916" x 14'-0"AI5IA66IA66IA71IA72IA76IA76 <tdi< td="">A78I'-334" x 916" x 14'-0"</tdi<>   | E                                      | 7   | 9             |            | (S4)                                   |                                 | 7 <sup>3</sup> 4" x <sup>3</sup> 8" x 20'-11" |
| TABLE OF REPAIR TYPES & LOCATION FOR FLOOR BEAMSREPAIR TYPELOCATION<br>SPAN NOFLANGE PLATE SIZEAI4I'-334 " $\times$ 916 " $\times$ 14'-0"AI5IA66A66A7IA72A74A75A7  | REPLACE                                | 7   | 9             |            | (S2)                                   |                                 | Replace Stringer                              |
| REPAIR         TYPE         LOCATION<br>SPAN         FLOOR         BEAM         NO.         FLANGE         FLATE         SIZE           A         I         4         I'-3 <sup>3</sup> 4<" x <sup>9</sup> I6" x I4'-0"         I         <  |  |   |               |            |  |                                 |   |
| REPAIR         TYPE         LOCATION<br>SPAN         FLOOR         BEAM         NO.         FLANGE         FLATE         SIZE           A         I         4         I'-3 <sup>3</sup> 4<" x <sup>9</sup> I6" x I4'-0"         I         <  | TABLE                                  | OF REPA   | IR TYPI       | ES         | & LOCATIO                              | N FOR FLOOR                     | BEAMS (                                       |
| A       I       4 $i^{1}-3^{3}4$ " $x^{9}i6$ " $x i4^{1}-0$ "         A       I       5       i         A       6       5       i         A       6       6       i         A       6       6       i         A       7       1       i         A       7       2       i         A       7       2       i         A       7       3       i         A       7       3       i         A       7       4       i         A       7       6       i         A       7       6       i         A       7       8 $i^{1}-3^{3}4$ " $x^{9}i6$ " $x i4^{1}-0$ "  |  |   | LOCATI        | ON         |  |                                 |   |
| A       I       5         A       6       5         A       6       6         A       7       I         A       7       2         A       7       2         A       7       3         A       7       4         A       7       5         A       7       6         A       7       8 $  -3^3 4^{11} x^9   6^{11} x   4^{11} 0^{11}$   | Δ                                      |   | <u>no</u>     | 1 LUA      |  |                                 |   |
| A       6       5         A       6       6         A       7       1         A       7       2         A       7       2         A       7       3         A       7       4         A       7       5         A       7       6         A       7       7         A       7       8 $i^1-3^3 4^{11} \times {}^9 i 6^{11} \times 14^{1} 0^{11}$   |  |   |               |            |  | 1-3-4 X-16                      | 5 X 14-0                                      |
| A       6       6         A       7       I         A       7       2         A       7       3         A       7       4         A       7       5         A       7       6         A       7       7         A       7       8 $l^1-3^3 4^{11} x^9   6^{11} x   4^{1} 0^{11}$   |  | · · · · · · · · · · · · · · · · · · ·   | <u> </u>      |            |  |                                 |   |
| A       7       I         A       7       2         A       7       3         A       7       4         A       7       5         A       7       6         A       7       6         A       7       7         A       7       8       I'- $3^3 4^{1''} x^9 16'' x 14^1 0''$  |  |   |               |            |  |                                 |   |
| A       7       2         A       7       3         A       7       4         A       7       5         A       7       6         A       7       6         A       7       7         A       7       8 $I^{L}-3^{3}4$ " x $^{9}$ I6 " x 14 $^{L}-0$ "   |  |   |               |            | <br>I                                  |                                 |   |
| A       7       3         A       7       4         A       7       5         A       7       6         A       7       6         A       7       7         A       7       8 $I^{L} - 3^{3} 4^{II} \times {}^{9} 16^{II} \times 14^{L} 0^{II}$  |  |   |               |            | 2                                      |                                 |   |
| A       7       4         A       7       5         A       7       6         A       7       6         A       7       7         A       7       8 $1^{L}-3^{3}4$ " x $9$ 16 " x $14^{L}-0$ "   |  |   |               |            |  |                                 |   |
| A       7       5         A       7       6         A       7       7         A       7       7         A       7       8 $1^{L}-3^{3}4^{II} \times {}^{9}16^{II} \times 14^{L}-0^{II}$  |  |   |               |            |  |                                 |   |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | ······································ | ······································  |               |            |  | 5                               |   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |  |   |               |            |  |                                 |   |
| A 7 8 1-334" x 916" x 14-0"  |  |   |               |            |  |                                 |   |
|  | · · · · · · · · · · · · · · · · · · ·  |   |               |            | · · · · · · · · · · · · · · · · · · ·  | 1'-33, " y 9                    | $16^{"x} 14^{-0"}$                            |
|  | В                                      | 1 1   |               |            |  |                                 |   |

С

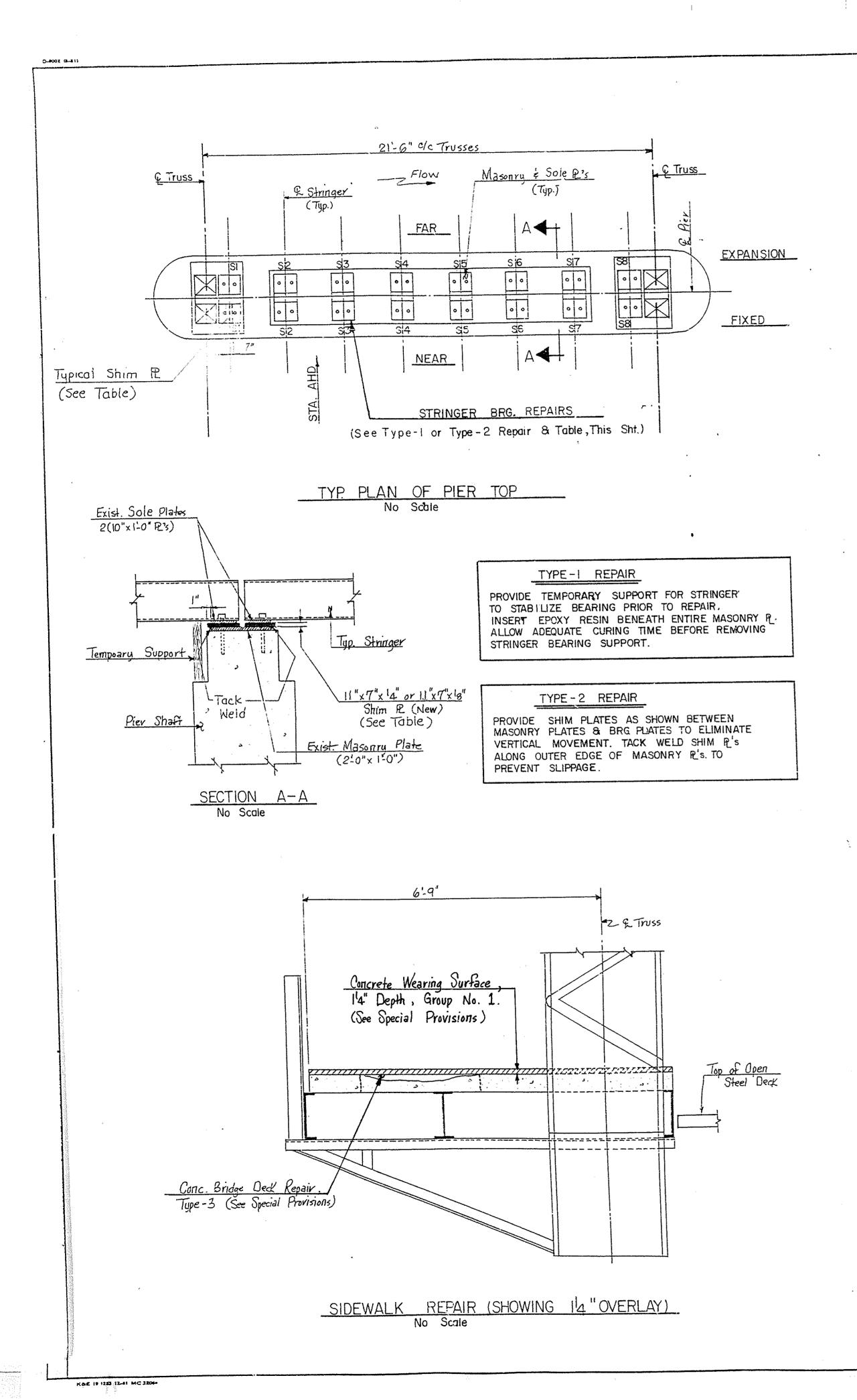
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D

B



| -                       | TABLE       | OF S   | TRINGER B   | EARING RE            | EPAIRS        |  |
|-------------------------|-------------|--------|---|----------------------|---------------|--|
|                         | PIER        | ·      |   |                      | PIER - 2      |  |
| BRG. LOCATION           | REPAIR      | TYPE   | P OR GROUT THK.   | BRG. LOCATION        | REPAIR TYPE   | P OR GROUT THK                         |
| SI-NR.                  |             |        |   | SI - NR.             |               |  |
| SI - FR.                |             |        |   | SI – FR.             |               |  |
|                         | 2           |        | 14"   | S2 - NR.             | 2             | اع <sup>ش</sup>                        |
| <u>S2-NR.</u><br>S2-FR. | <u>_</u>    | †      |   | S2 - FR.             |               | 14 " (Gr.)                             |
|                         | 2           |        | l4"   | S3 - NR              | 2             | 4 "                                    |
| <u>S3-NR.</u>           | C           |        |   | \$3-FR.              |               | <sup>1</sup> 4 " (Gr.)                 |
| <u>S3-FR.</u><br>S4-NR. | 2           |        | <sup>1</sup> 4 <sup>11</sup>  | S4 - NR.             | 2             | 1 <sub>4</sub> "                       |
|                         | <u>_</u>    |        |   | S4 - FR.             | 1             | 1 <sub>4"</sub> (Gr.)                  |
| S4-FR.                  |             |        |   | S5 - NR.             | 2             | lq"                                    |
| <u>S5-NR.</u>           |             |        |   | S5 -FR.              | 1             | 14" (Gr)                               |
| <u>S5-FR.</u><br>S6-NR. |             |        |   | S6 - NR.             | 2             | اح"                                    |
|                         |             |        |   | S6 - FR.             |               | 14" (Gr.)                              |
| S6-FR.                  |             |        |   | S7 - NR.             | 2             | l4"                                    |
| <u>\$7-NR.</u>          |             |        |   | s7 - FR.             | - 1           | 4" (Gr.)                               |
| S7-FR.                  |             |        |   | S8 - NR.             |               |  |
| S8-NR.                  |             |        |   | 58 - FR              |               |  |
| S8-FR.                  |             |        |   | 30-112               |               | <u></u>                                |
|                         | PIER        |        | 1   |                      | PIER - 4      |  |
| BRG. LOCATION           | REPAIR      | TYPE   | R OR GROUT THK  | 1                    | REPAIR TYPE   | P. OR GROUT TH                         |
| SI-NR.                  |             |        |   | SI - NR.             |               | **                                     |
| SI-FR.                  |             |        |   | SI - FR.             |               |  |
| S2 - NR.                |             | *      | l <sub>8</sub> " (Gr.)  | S2 - NR.             |               |  |
| S2 -FR.                 |             | 2      | <sup>1</sup> 8" ′   | S2 - FR.             |               |  |
| S3 -NR.                 |             | 1      | <sup>1</sup> 8 <sup>"</sup> (Gr.)   | <u>S3 - NR.</u>      |               |  |
| S3 -FR.                 |             | 2      | <sup>1</sup> 8"   | S3 - FR.             |               |  |
| S4-NR.                  |             | 1      | <sup>1</sup> 8" (Gr.)   | S4 - NR.             | 2             | <u>l</u> 8 "                           |
| S4-FR.                  |             | 2      | 18"   | S4 - FR.             | 2             | 1 <sub>8</sub> "                       |
| \$5 -NR.                |             | 2      | <sup> </sup> 8"   | S5 - NR.             | 2             | l <mark>8</mark> "                     |
| S5-FR.                  | -           | 2      | <sup> </sup> 8"   | S5 -FR.              | 2.            | 18"                                    |
| S6-NR.                  |             | 1      | <sup>1</sup> 8 <sup>#</sup> (Gr.)   | S6 - NR.             | 2             | <sup>l</sup> 8 "                       |
| S6-FR.                  |             | 2      | <sup>l</sup> 8"   | S6 - FR.             | 2             | 18"                                    |
| S7- NR.                 |             |        |   | S7- NR.              | 2             | <sup> </sup> 8"                        |
| S7- FR.                 |             | ······ |   | S7 - FR.             | 2             | 18"                                    |
| S8 -NR.                 |             |        |   | S8 - NR.             |               |  |
| 58-FR.                  |             |        |   | S8 - FR.             |               |  |
| <u> </u>                | DIF         | R-5    |   |                      | PIER - 6      |  |
| BRG. LOCATIO            |             | R TYPE | P OR GROUT TH   | K BRG. LOCATIO       | N REPAIR TYPE |  |
| SI-NR.                  |             |        |   | SI-NR.               |               |  |
|                         |             |        | <u> </u>  | SI - FR.             |               |  |
| SI-FR.                  |             |        |   | S2 - NR.             |               |  |
| S2-NR.                  |             |        |   | S2 - ER.             |               |  |
| S2-FR.                  |             | 2      |   |                      |               |  |
| 93_NR                   | 1 <i>.,</i> |        | and the second | S3-FR                |               |  |
| S3-FR.                  |             | 2      | <u>  4"</u><br> 4"  | S3 - PR.<br>S4 - NR. |               |  |
| S4-NR.                  |             | 2      | <u>ام</u> "   |                      |               |  |
| S4 -FR.                 | ·           | 2      | · · · · · · · · · · · · · · · · · · ·   | S4 - FR.             | <br>          |  |
| \$5-NR.                 |             | 2      | <u>l</u> 4"   | <u>S5 - NR.</u>      |               |  |
| S5 - FR.                |             | 2      |   | <u>\$5 - FR.</u>     |               |  |
| S6-NR.                  |             | 2      | l 18"   | S6- NR.              |               |  |
|                         |             | 2      | <u> 8"</u>  | <u>\$6 - FR.</u>     |               |  |
| S7- NR.                 |             |        |   | S7 - NR.             |               | ······································ |
|                         | 1           |        | 1   | S7 - FR.             |               |  |
| S7 -FR.                 |             | ·····  |   |                      |               |  |
|                         |             |        |   | S8 - 1R.             |               |  |

\* Include repair to fractured concrete pedestal and replacement of 1" Ø anchor bolt as directed.

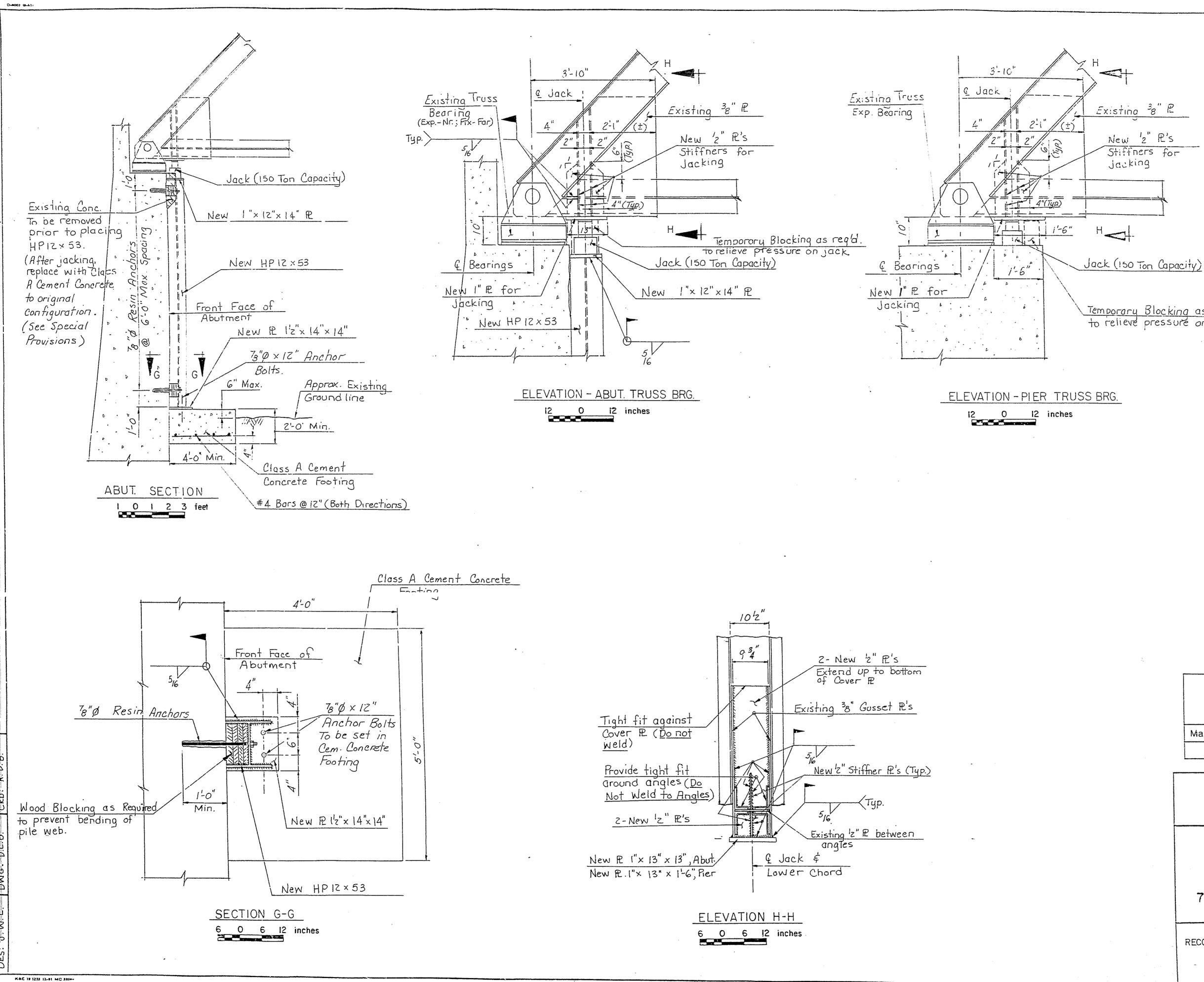
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| Mark   | Description<br>REVISI | By   | Chk'd. App'd.   | Date        |
|--------|-----------------------|--|---|-------------|
| L.R. 4 | D 1 95                | RANSPORT<br>HWAY DESIG<br>COUNT<br>(COUNT<br>SEC.<br>reet) Sta.<br>of Susquehant<br>BRIDGE | ATION<br>3N<br>FY<br>004<br>14+70.00 (S.L.D<br>na River | <b>FION</b> |

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|            | JACKING NOTES   |
|------------|---|
|            | <ul> <li>A minimum amount of jacking will be required<br/>to reset Bearing.</li> </ul>          |
| g8" P      | <ul> <li>Design is based on jack head bearing directly<br/>under Stiffners as shown.</li> </ul> |
| 12" R's    | <ul> <li>Minimum Jack Capacity = 150 Tons</li> </ul>  |
| ners for . | • All work shown on this sheet is incidental to Item "Clean and Reset Truss Bearings".          |
|            |   |

I.

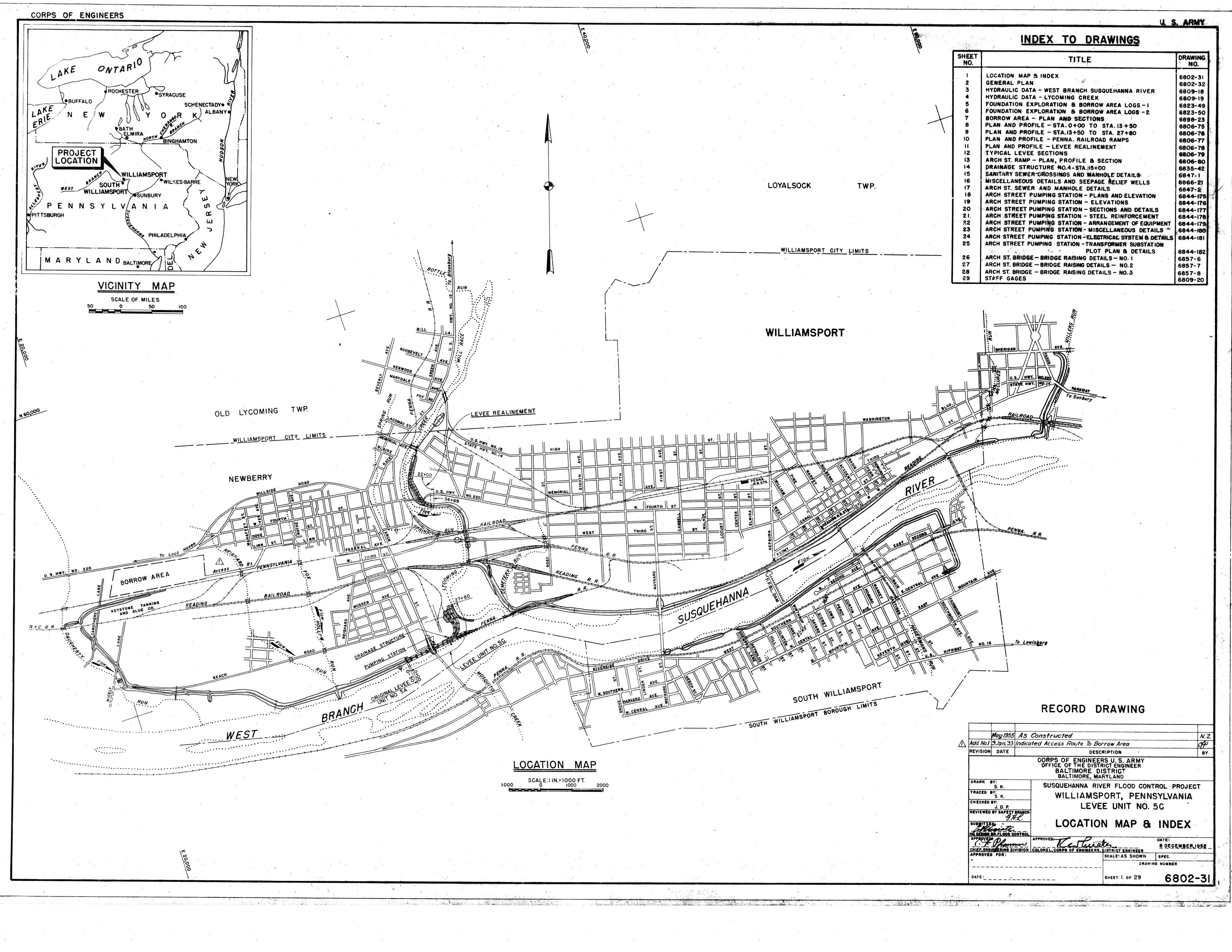
Temporary Blocking as Required to relieve pressure on jack.

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|      |             |     |        | ŧ      |      |
|------|-------------|-----|--------|--------|------|
| Mark | Description | Ву  | Chk'd. | App'd. | Date |
|      | REVISIO     | ONS |        |        |      |

| Commonwealth of Pennsylvania                           |              |
|--|--------------|
| DEPARTMENT OF TRANSPORTATION                           |              |
| BUREAU OF HIGHWAY DESIGN                               |              |
| LYCOMING COUNTY  |              |
| L.R. 41132 BR SEC. 004                                 |              |
| L.R. 41132 BR-004 (Arch Street) Sta. 14+70.00 (S.L.D.) |              |
| Over West Branch of Susquehanna River                  |              |
| 7-SPAN THRU TRUSS BRIDGE REHABILITATION                | • * •<br>• • |
| JACKING DETAILS  |              |
| RECOMMENDED 2-4-85 SHEET 4_OF 4                        |              |
|  |              |
| S- 15986   |              |
|  |              |

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|                         | May 1955          | AS Cons      | tructed   | ₩₩ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ |              | 1844  |                                 |
|-------------------------|-------------------|--------------|---|---------------------------------------|--------------|---|---------------------------------|
| Add. No.1               | 9 <i>Jan.'</i> 53 | Indicated )  | Access Route i  | To Borro                              | w Area       |   | ****                            |
| REVISION                | DATE              | ··           | ayban daharang dagan yaya dalami, bir dala makin daharan dari semenyan nanala 1997 - 1944 sam | DESCRIP                               | TION         |   |                                 |
|                         | 9                 | CO           | RPS OF ENGI<br>FFICE OF THE<br>BALTIMOR<br>BALTIMORE  | E DIST                                | RICT         | AY<br>R   | <b>UUTTON BEEN TONE TONE TO</b> |
| DRAWN BY:<br>S. K.      |                   | S            | SUSQUEHANNA   | RIVER                                 | FLOOD        | CONTRO  |                                 |
| TRACED                  | S. K.             |              | WILLIAMSPORT, PENNSYLVAI  |                                       |              |   |                                 |
| CHECKED BY:<br>J. D. P. |                   |              | LEVEE UNIT NO. 5C   |                                       |              |   |                                 |
| SUBNITTE                | BY SAFETY<br>GT   | <i>H.L.</i>  | LOCAT   | TION                                  | MAP          | <b>8</b> I  | NDE                             |
| APPROVED                | Phone             | ONTROL APPRO | Kest  | inte                                  | TRICT ENGINE |   | TE:<br>DEGEI                    |
| APPROVE                 |                   |              |   | T                                     | ALE: AS SHO  | and the second se | EC.                             |
|                         |                   |              | nan waar waxa waxa amaa amaa amaa   |                                       |              | DRAWING N   | UNBER                           |
| DATE                    |                   |              | and the second  | SH                                    | IEET I OF 2  | 9   | 68                              |

TO ACCOMPANY SPECIFICATIONS SERIAL NO. CIVENG 18-020-53-40 DATED: 19 DECEMBER 1952

CORPS OF ENGINEERS, U.S. ARMY OFFICE OF THE DISTRICT ENGINEER BALTIMORE DISTRICT BALTIMORE, MARYLAND

. . . . .

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|      |            | LIST        | OF REVISIONS                                     |
|------|------------|-------------|--|
| MARK | TYPE       | DATE        | SHEETS REVISED                                   |
| Δ    | ADD. NO. I | 9 JAN. '53  | 1-7-8-9-10-11-12-13-14-15-16-17-20-21-22-23 8 20 |
| 4    | ADD.NO.2   | 13 JAN. '53 | 18   |
| 4    | C.O.NO.I   | 27 APR.'53  | 9 815  |
|      | S.A. NO.2  | 2600T'53    | 9812   |
| A    | C.O. NO.3  | 19 MAR.'53  | 25   |
| 1    | C.O. NO.4  | 5 FE8.54    | 7  |

| LIST        | OF REVISIONS                                     |
|-------------|--|
| DATE        | SHEETS REVISED                                   |
| 9 JAN. '53  | 1-7-8-9-10-11-12-13-14-15-16-17-20-21-22-23 8 26 |
| 13 JAN. '53 | 18   |

## WILLIAMSPORT, PENNSYLVANIA

### LEVEE UNIT NO. 5C

# WILLIAMSPORT FLOOD PROTECTION PROJECT

PLANS FOR

SUSQUEHANNA RIVER FLOOD CONTROL PROJECT

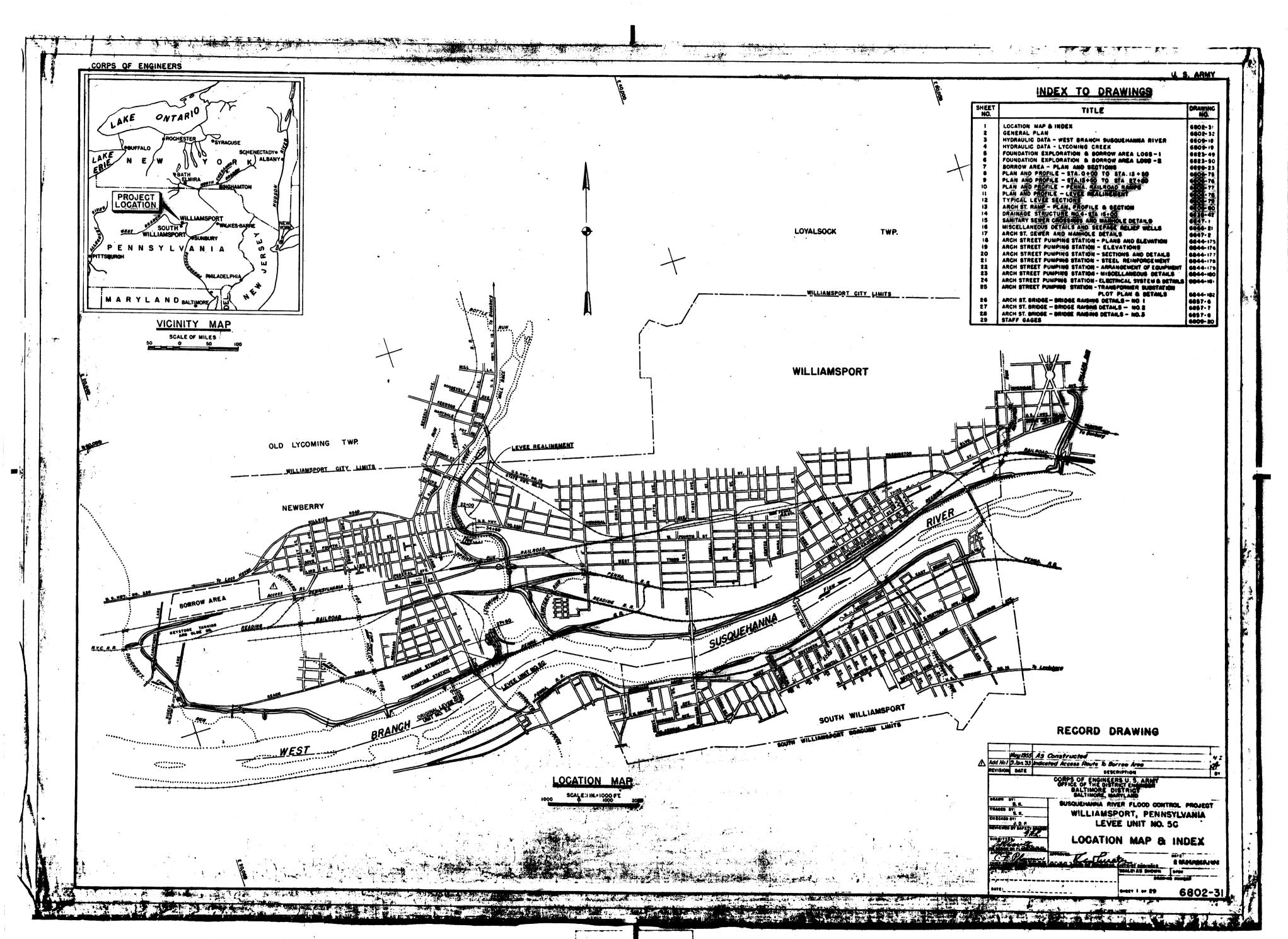
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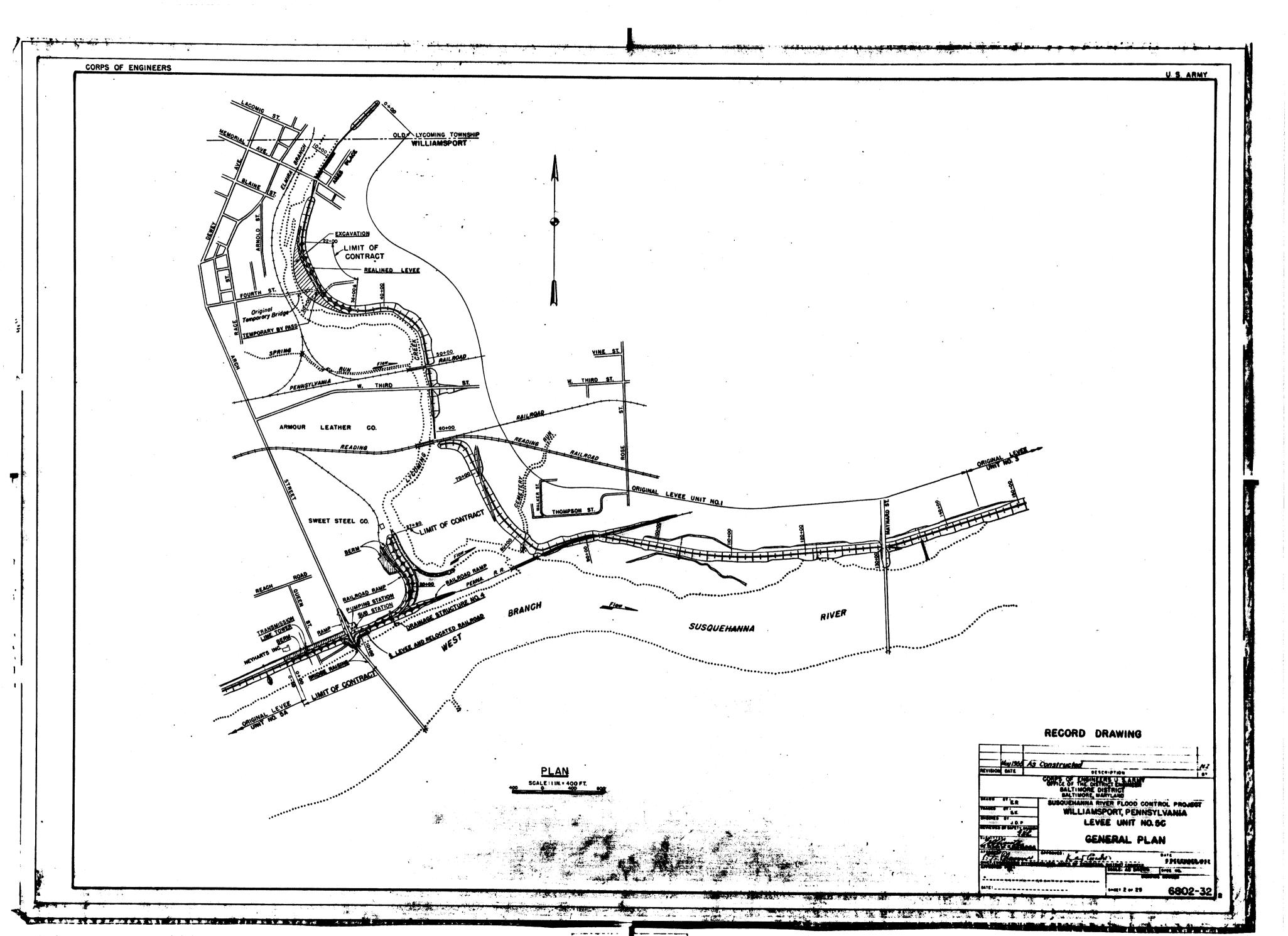
#### RECORD DRAWINGS

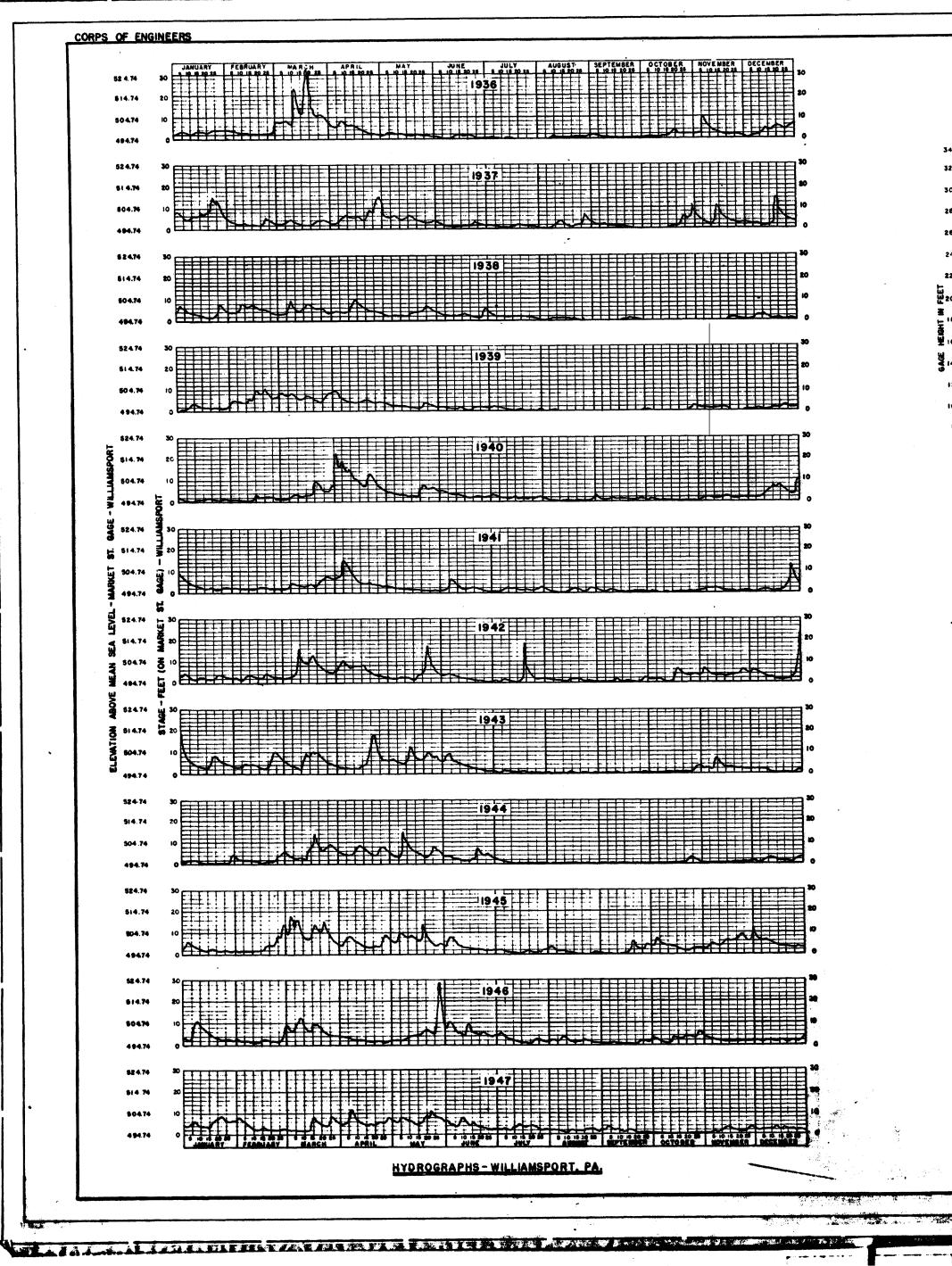
CONTRACT NO. CONTRACTOR STARTING DATE

مرین آند. مهر به م

DA-18-020-ENG-557 BUCK & DONOHUE, INC. NEWARK, N.J. FEBRUARY 1953 COMPLETION DATE OCTOBER 1954







GAGE HEIG DATE MAR. 13, 184 OCT. 9, 184 JULY 16, 185

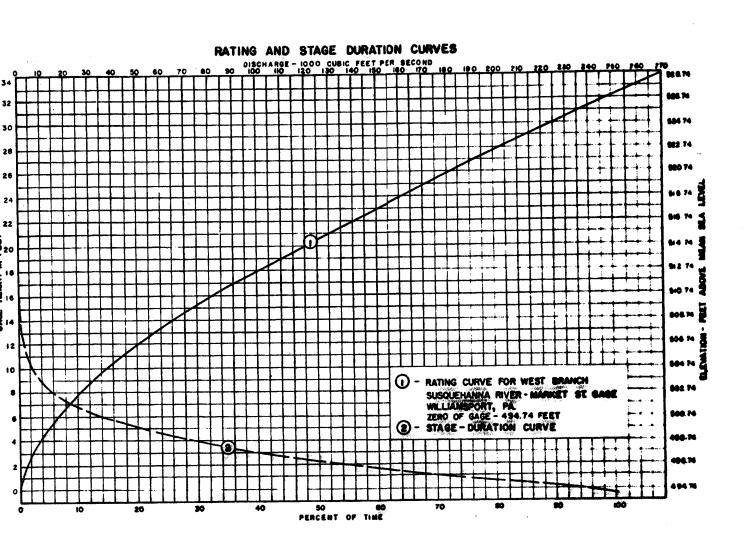
JAN. JUNE FEB

DEC. 31, APR. 22, MAY 28, APR. 15, MAR. 29,

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#### U. S. ARMY



#### TABULATION OF STAGES ABOVE BANKFULL STAGE WEST BRANCH SUSQUEHANNA RIVER MARKET ST. BRIDGE-WILLIAMSPORT, PA.

| THE | AT         | BANKFULL,   | STAGE | 18  | ABOUT |   | FFFT |
|-----|------------|-------------|-------|-----|-------|---|------|
|     | <b>~</b> . | formers amb |       | ••• |       | - |      |
|     |            |             |       |     |       |   |      |

|    | GAGE    | MOMENTARY PEAK DISCHARGES |               |  |  |  |
|----|---------|---------------------------|---------------|--|--|--|
|    | N FEET  | CFS                       | CFS PER SQ MI |  |  |  |
| 6  | 24.0    | 159,000                   | 28.0          |  |  |  |
| 7  | 20.0    | 119,000                   | 21.0          |  |  |  |
| Γ  | 22.0    | 139,000                   | 24,5          |  |  |  |
| 1  | 24.0    | 159,000                   | 28.0          |  |  |  |
| 5  | 26.0    | 180,000                   | 31.7          |  |  |  |
| 6  | 23.0    | 149,000                   | 26.2          |  |  |  |
| 9  | 32.4    | 251,000                   | 44.1          |  |  |  |
| 4  | 22.0    | 139,000                   | 24.5          |  |  |  |
| 5  | 30.0    |                           | 39.4<br>22.7  |  |  |  |
| 1  | 207     | 129,000                   | 22.2          |  |  |  |
| 2  | 21.7    | 136,000                   | 23.9          |  |  |  |
| 4  | 21.0    | 129,000                   | 22.7          |  |  |  |
| 5  | 19.4    | 113,000                   | 19.9          |  |  |  |
| 9  | 21.0    | 129,000                   | 22,7          |  |  |  |
| 2  | 18.4    | 103,000                   | 10,1          |  |  |  |
| 3  | 20.4    | 123,000                   | 21.7          |  |  |  |
| 4  | 18.9    | 108,000                   | 18.9          |  |  |  |
| 5  | 18.8    | 107,000                   | 18.8          |  |  |  |
| 6  | 20.6    | 125,000                   | 22.0          |  |  |  |
| 6  | 21.0    | 129,000                   | 22.7          |  |  |  |
| 8  | 21.4    | 133,000                   | 23.4          |  |  |  |
| 8  |         | 119,000                   | 20.9          |  |  |  |
| 9  |         | 128,000                   | 22.5          |  |  |  |
| 0  |         | 123,000                   | 21.6          |  |  |  |
| 3  |         | 135,000                   | 23.6          |  |  |  |
| 4  |         | 109,000                   | 19.2          |  |  |  |
| 25 |         | 114.000                   | 20.1          |  |  |  |
| 1  | 18.7    | 106,000                   | 187           |  |  |  |
| 4  | - 33.7_ | 156,000                   | 27.5          |  |  |  |
|    | 33.6    | 264,000                   | 46.5          |  |  |  |
| 10 | 19.3    | 112,000                   | 19.7          |  |  |  |
| 10 | 19.2 #  |                           | 17.0          |  |  |  |
| 12 | 18.8    | 110,000                   | 19.4          |  |  |  |
| 12 |         | 148,000                   | 26.0          |  |  |  |
| 12 | 19.0    | 09,000                    | 19.2          |  |  |  |
| 16 |         | 220.000                   | 38.7          |  |  |  |
| İĒ |         | 124,000                   | 21.6          |  |  |  |
| 50 | 18.38   | 101,000                   | 17. 6         |  |  |  |
| 50 | 28.11   | 206,000                   | 36.3          |  |  |  |
| 1  |         | 119,000                   | 20.8          |  |  |  |

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| GAGE HEIGHT | WATER SURFACE ELEV.<br>ABOVE ARCH ST. BRIDGE P  |
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| 2           | 5064  |
| 10          |   |
| 14          | 5141  |
| 18          | 5176  |
| 22          | 521.7   |
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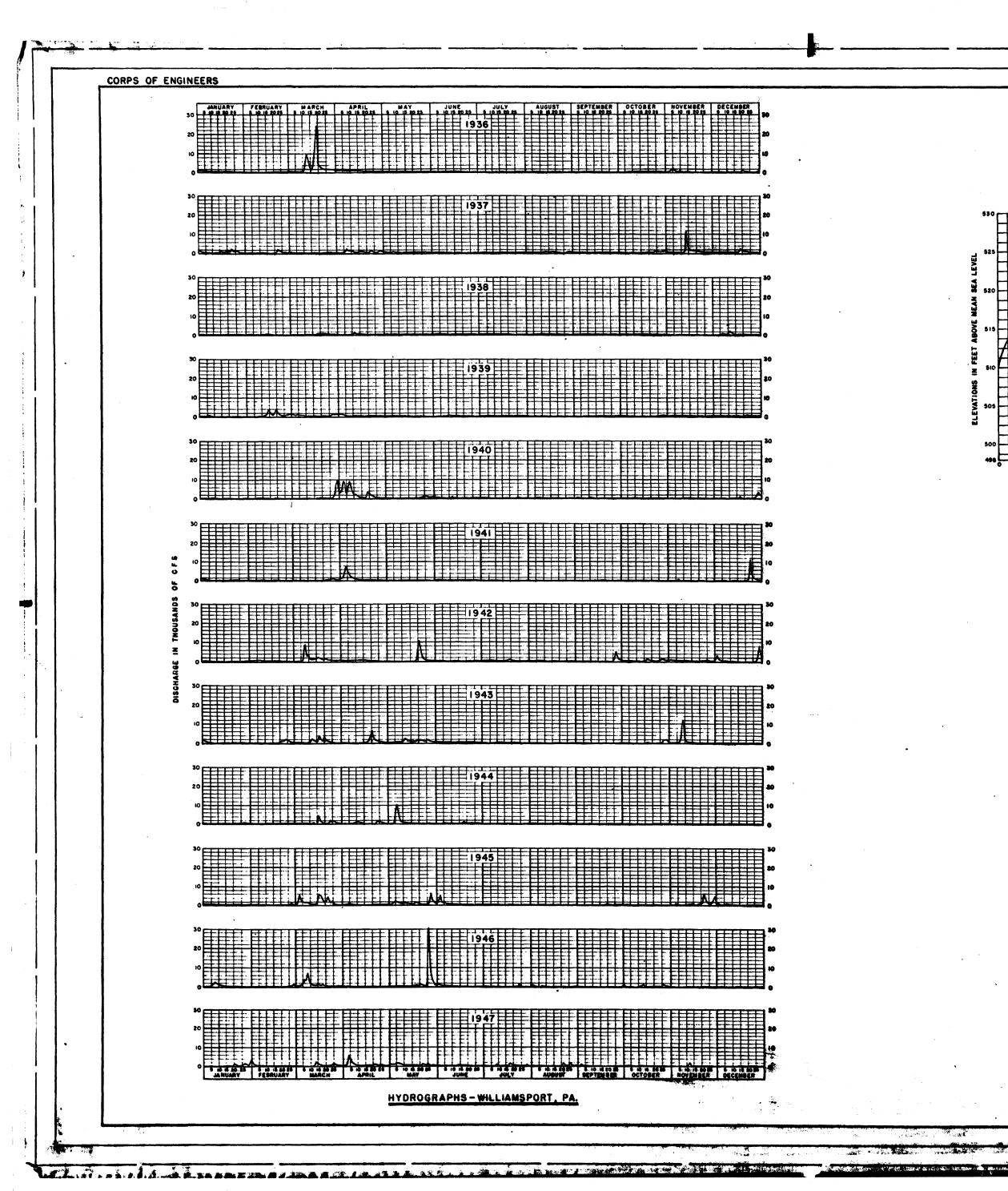
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#### GENERAL NOTES

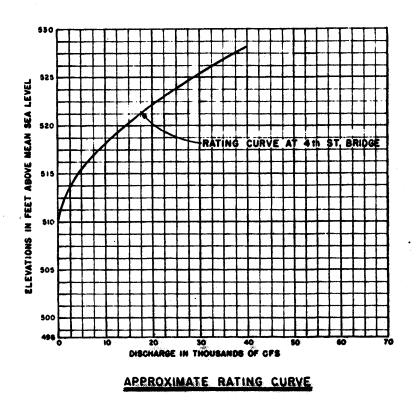
Hydrographs shown on this sheet are meen deily stages and are based on the records of the gaging station at Market Street bridge, Williamsport, Pe Tabulation of stages above bankfull stage is incom prior to 1895.

#### **RECORD DRAWING**

| REVIEICH       |          | As C | onstructed |         |            |  |  |
|----------------|----------|------|------------|---------|------------|--|--|
| -              |          |      |            | CORE DI | STRICT     |  |  |
|                | C.H.S.   |      | SUSCIJEHA  | NNA RIV | ER FLOOD C | a an | - Section - Contraction - Cont |
|                | DAM      |      | WILL       |         | PORT, PEN  |  | NIA  |
| 100000<br>1000 | JOP      |      |            | LEV     | EE UNIT    | NO.5C                                    |  |
|                | H HALL   | 2    |            | HYDR    | AULIC      | DAT                                      | A  |
| and and a      |          |      | WEST       | BRANC   | H SUSQU    | EHANNA                                   | RIVER  |
| Ģ              | R/       | -    | Re         | lical   |            | 1 25                                     |  |
|                | <b>.</b> |      |            |         | -          |  | •  |
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|                |          |      |            |         |            | _  | 809-18   |



U.S. ARMY



#### GENERAL NOTES

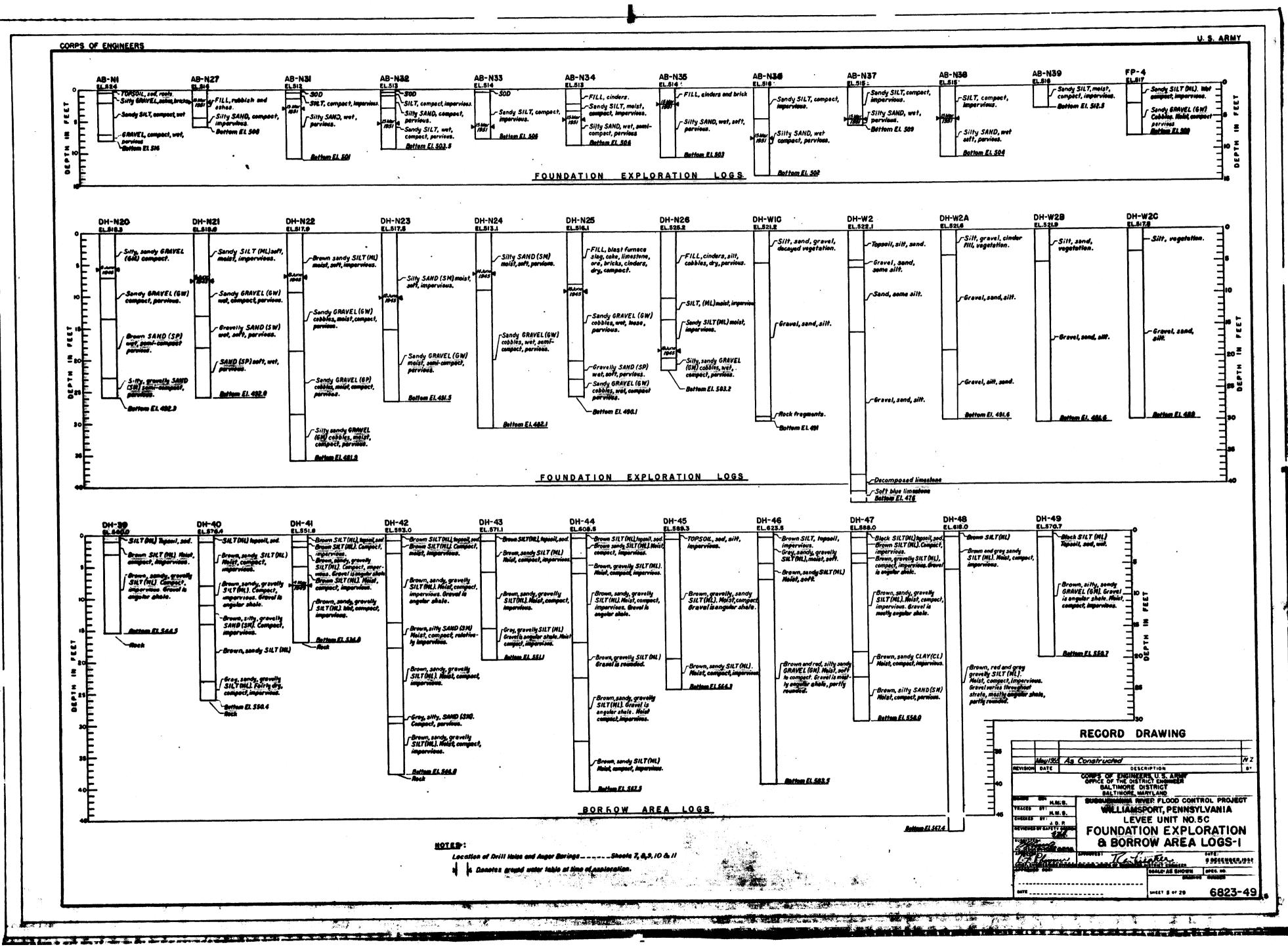
THE REAL PROPERTY AND A REAL PROPERTY.

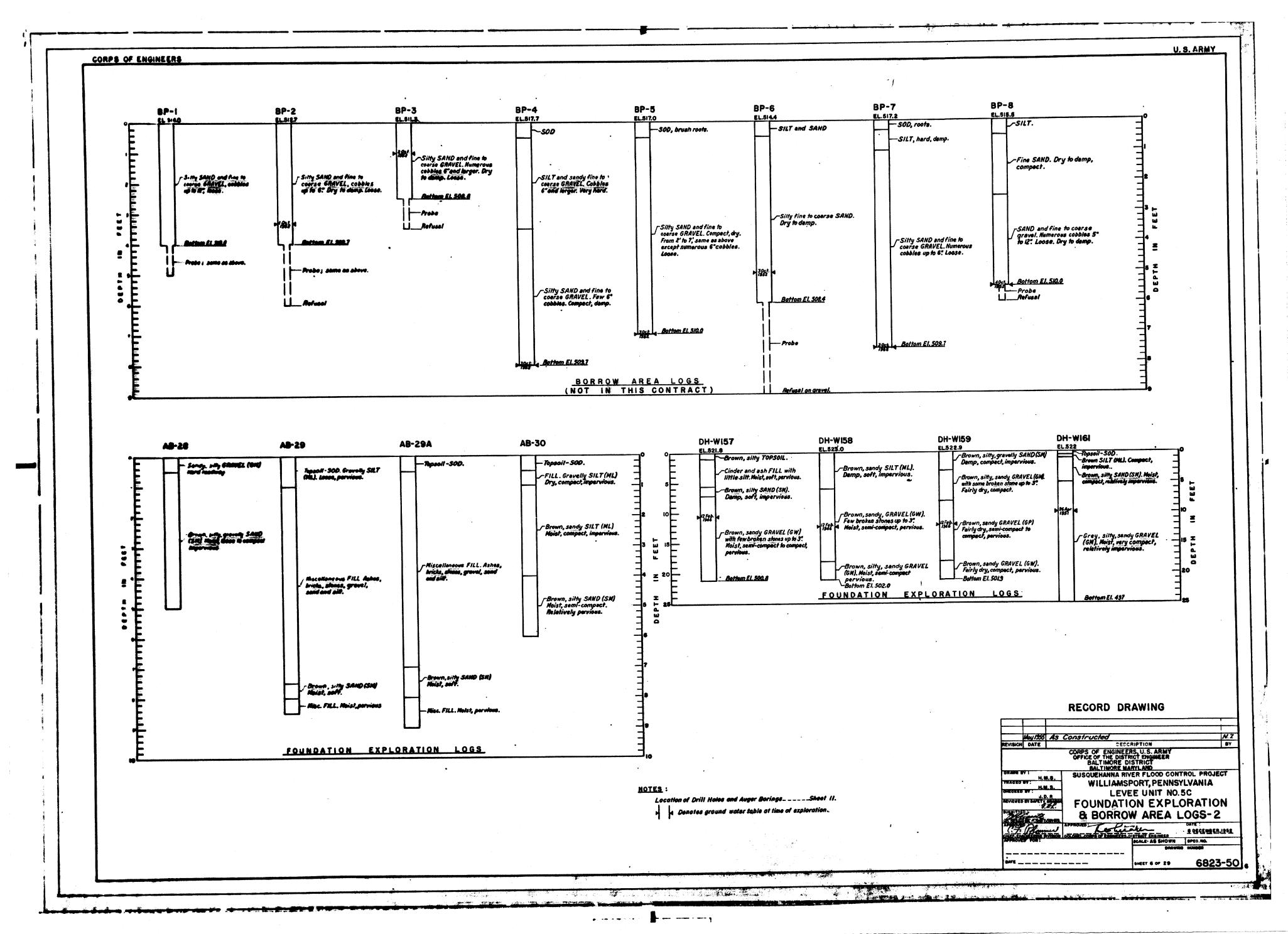
The Hydrographs on this sheet were plotted from records of mean daily flow for Lycaming Creat near Treat Awn, Panaghrania, published by the U.S. Geometrical Survey The discharges were increased by the rotle to the D power of the drainage area rotationally Drainage Area at Treat Awn - 173 Sq Miles Drainage Area at 4th Street Bridge - 268.2 Sq Miles

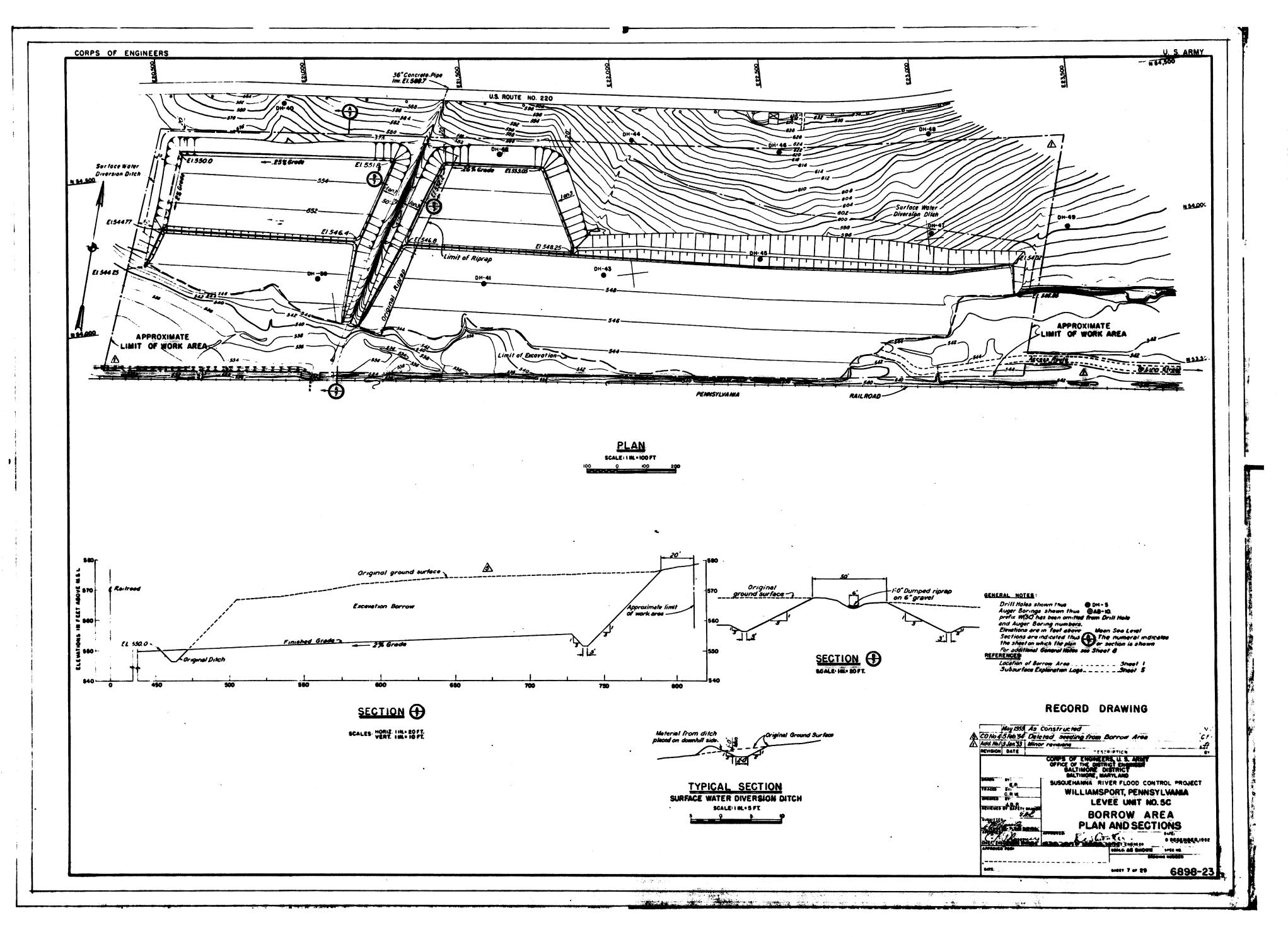
#### **RECORD DRAWING**

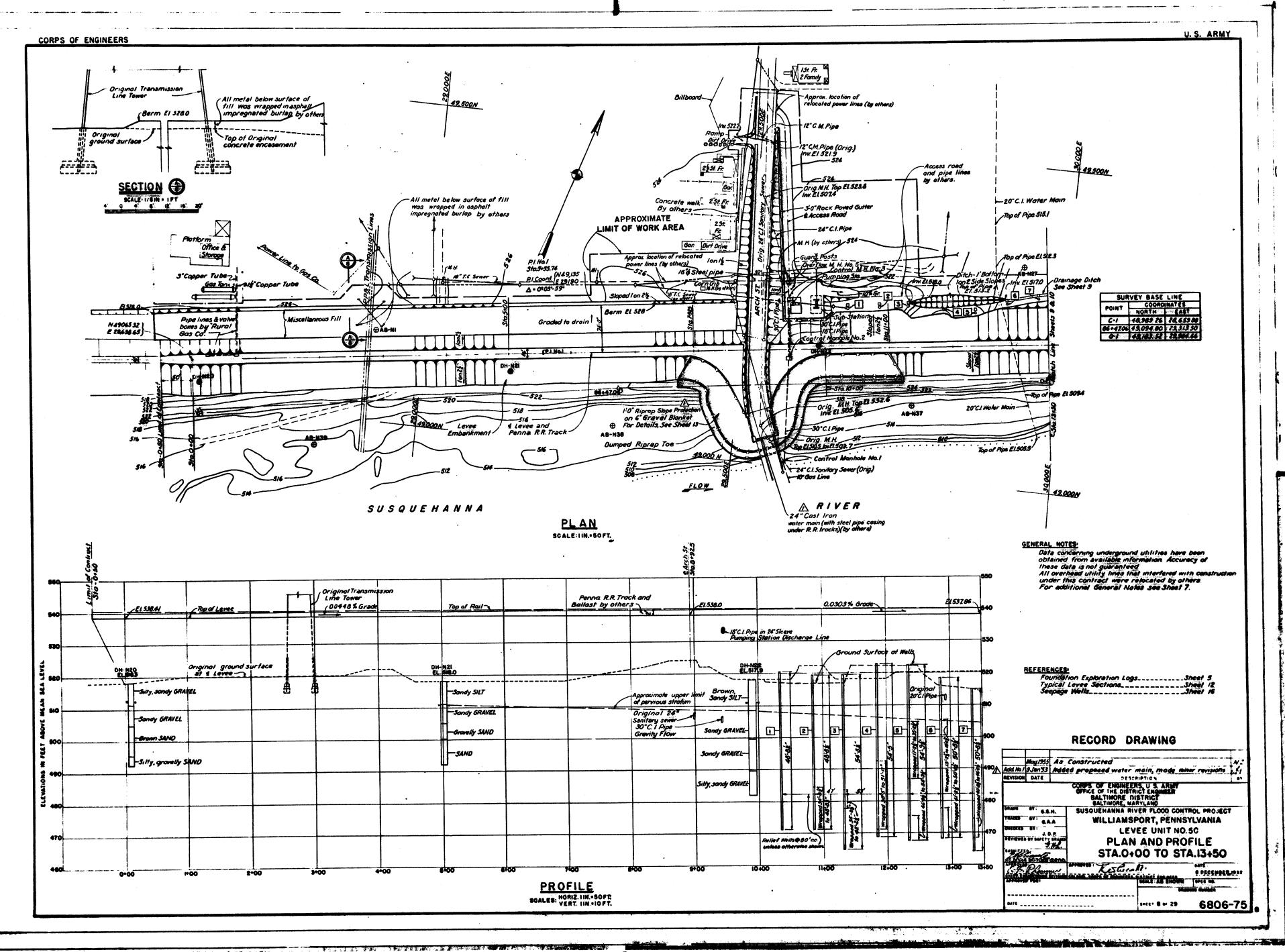
|             |              | As Constructed                               |               | N 1              |
|-------------|--------------|--|---------------|------------------|
| EVISION     | DATE         | CONTS OF ENGINEER                            | PTION         |                  |
|             |              | BALTINORE DI<br>BALTINORE DI<br>BALTINORE MA | CT ENGINEER   |                  |
| Addres -    | 8V: 4C.6.    |  |               | TOUL PROJECT     |
|             | 6¥:<br>J.G.6 |  | ORT, PENNS    |                  |
| 1985)<br>19 | UV:<br>J.D.P | LEVE   | UNIT NO.      |                  |
| CHCHCO      | States       |  | ULIC DA       |                  |
|             | and a        |  | OMING CREEN   |                  |
| (74)        | 20           | I je the                                     | fin.          | e oceethers itos |
| LPPROVE     |              |  | 1041 AS 81000 | 100 C            |
|             |              | ****   |               | are annous       |
| -           |              |  | unter 4 or 20 | 6809-19          |

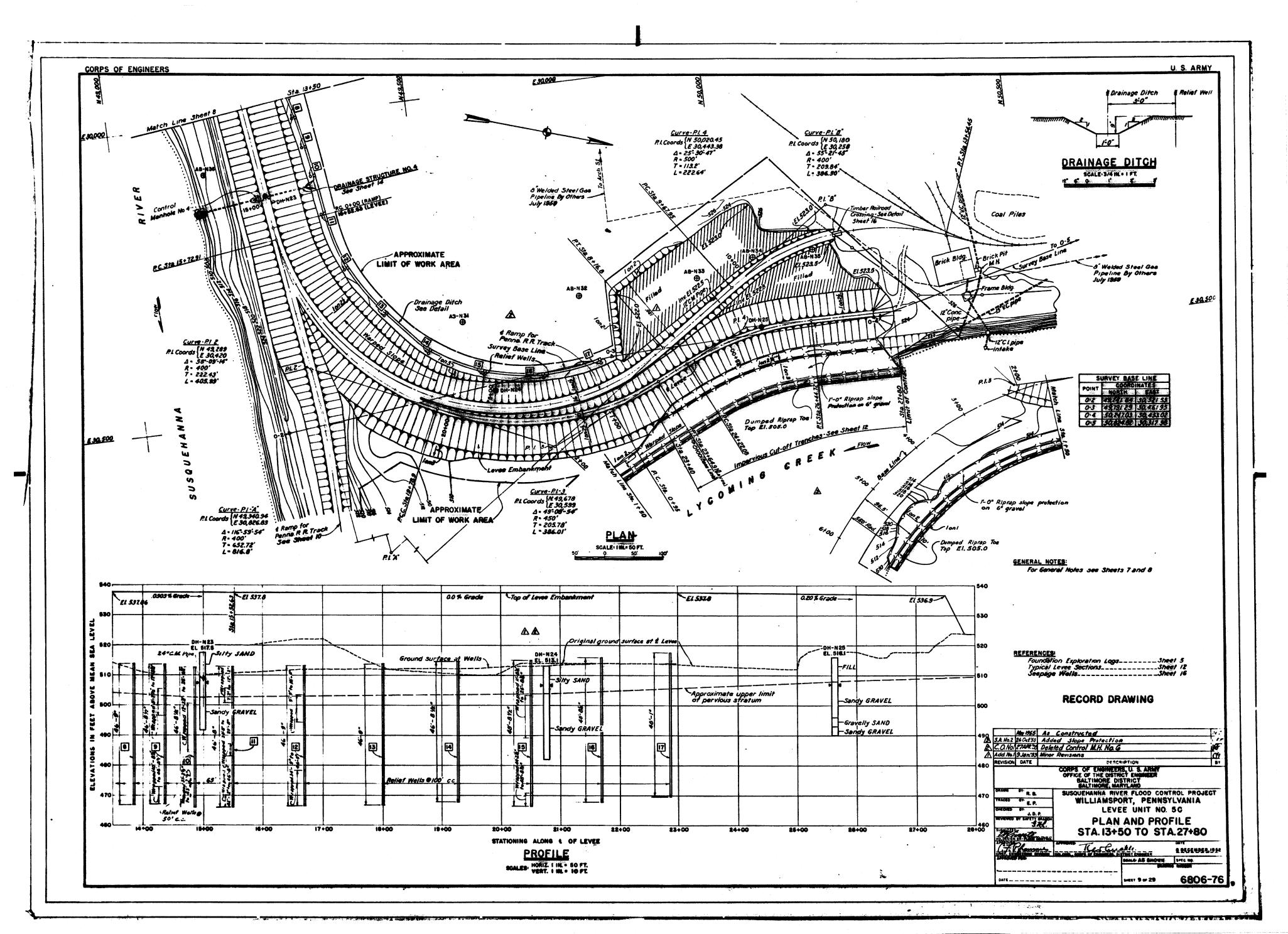
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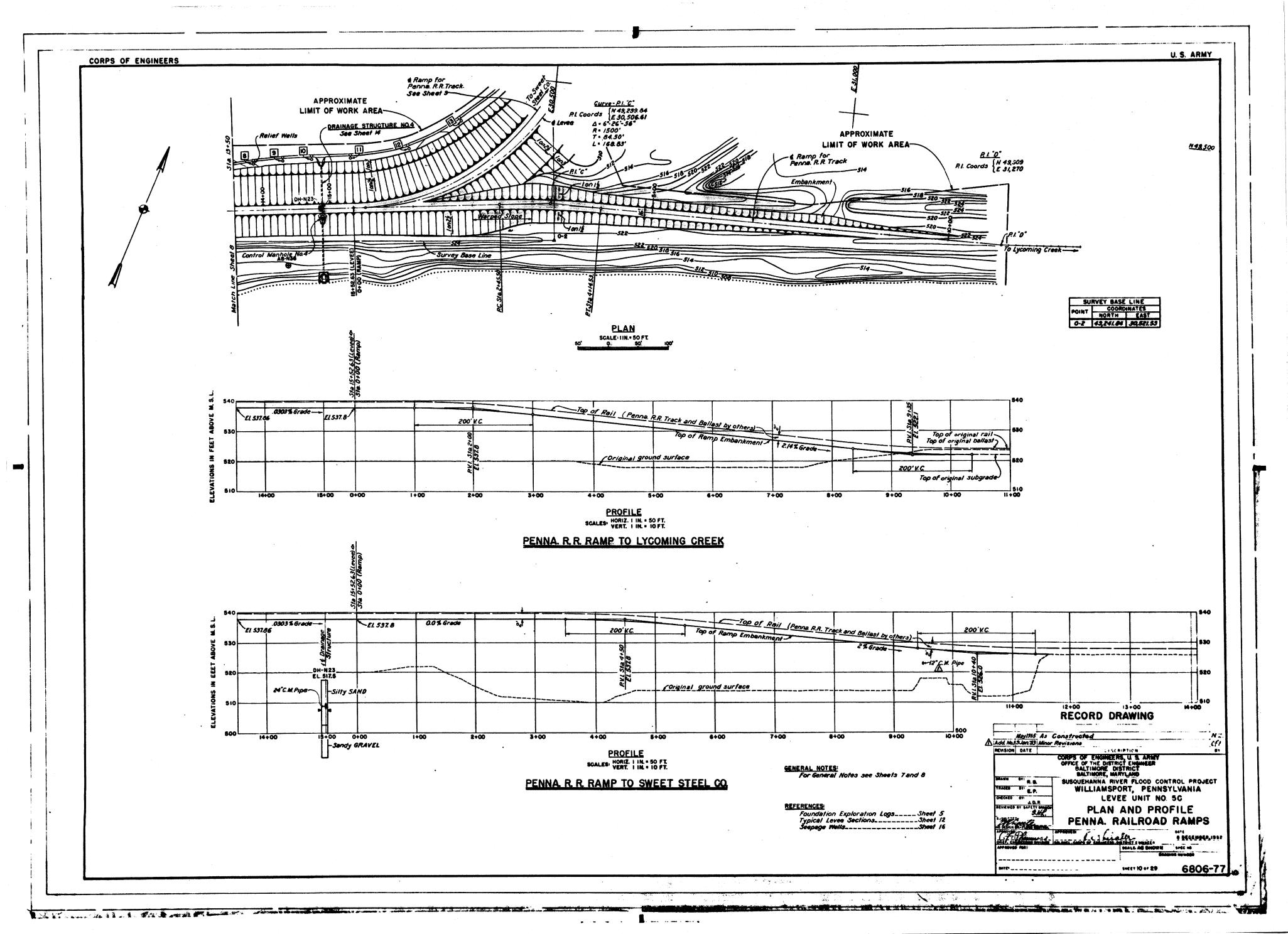


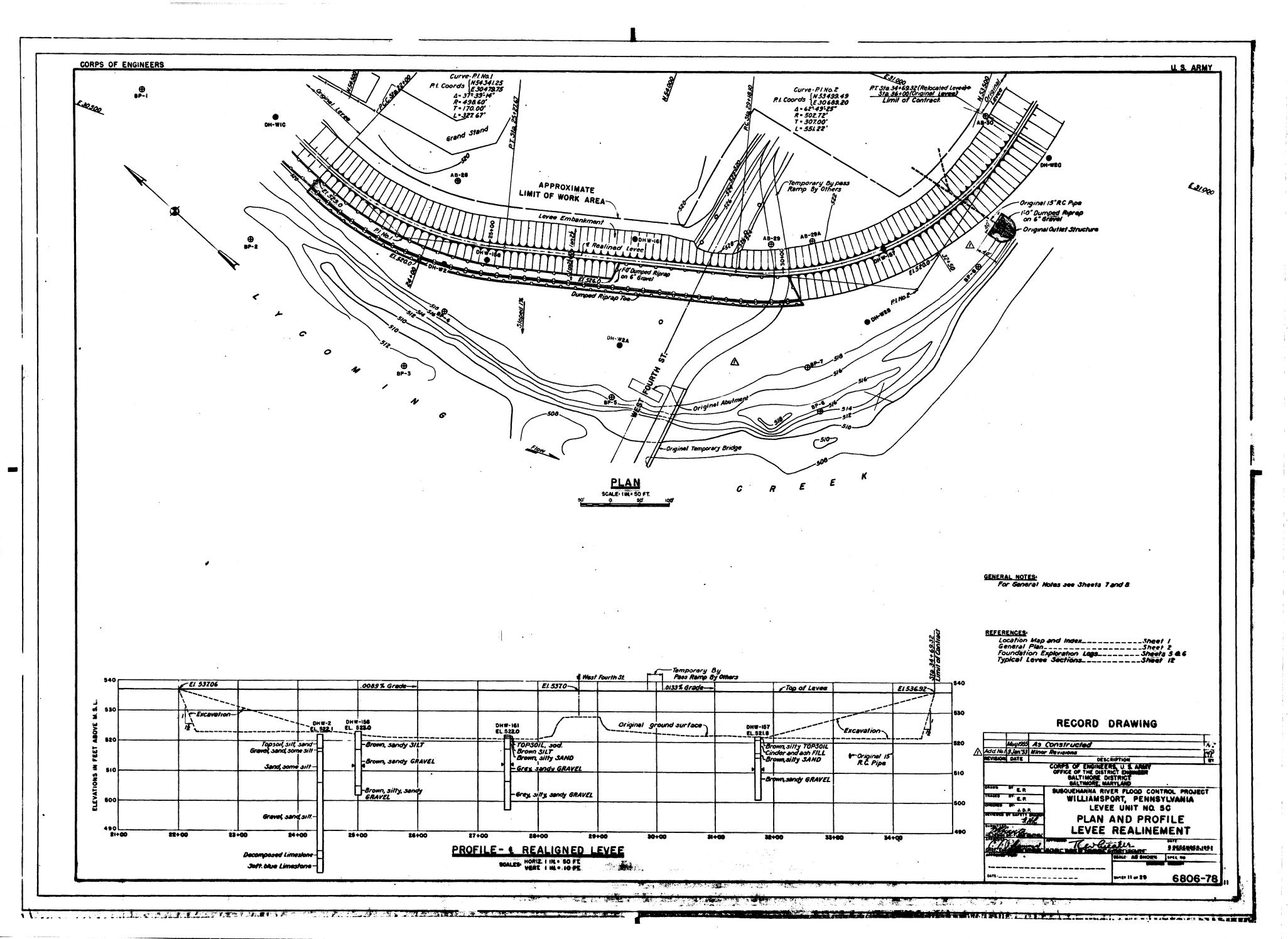


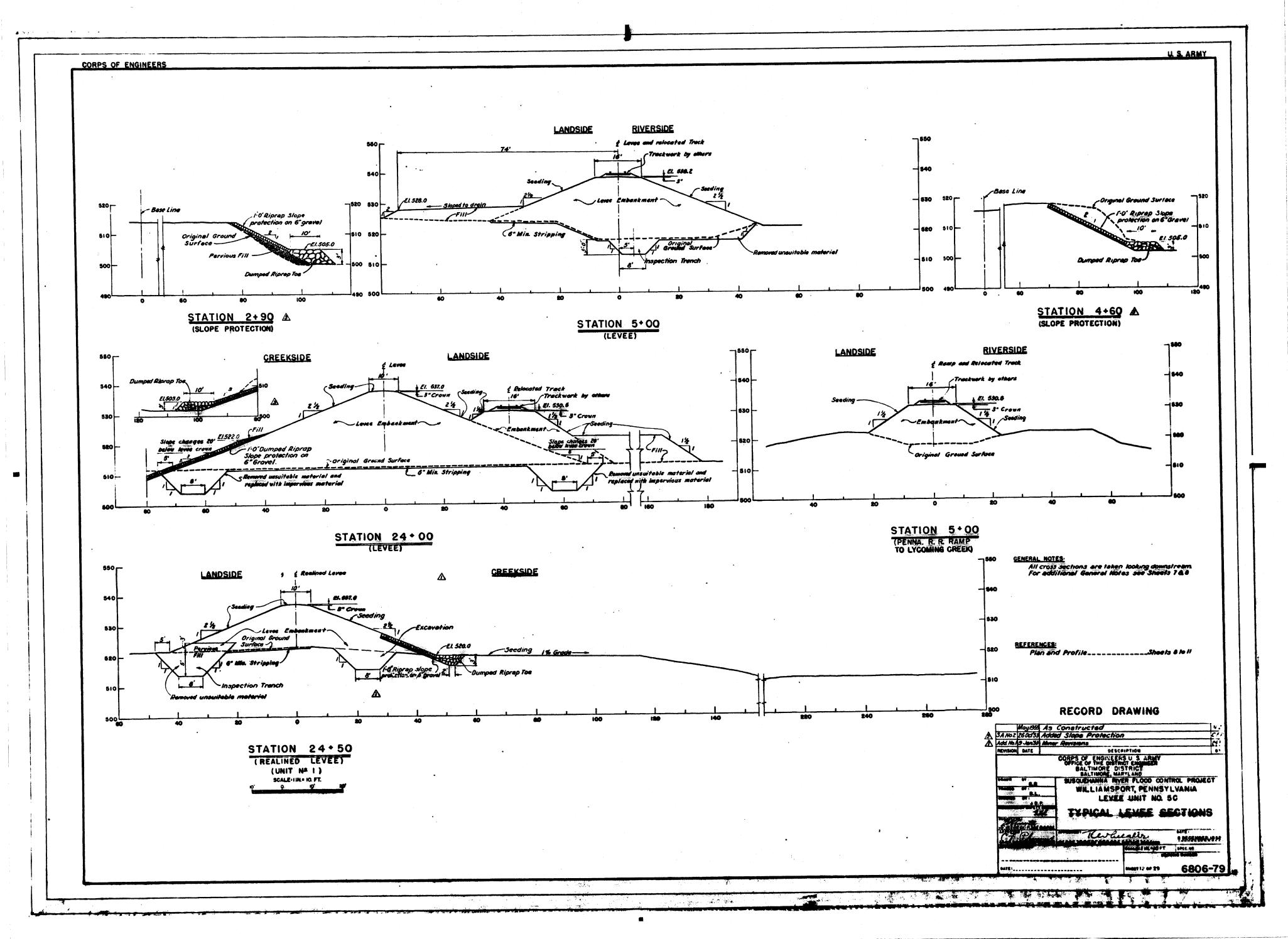


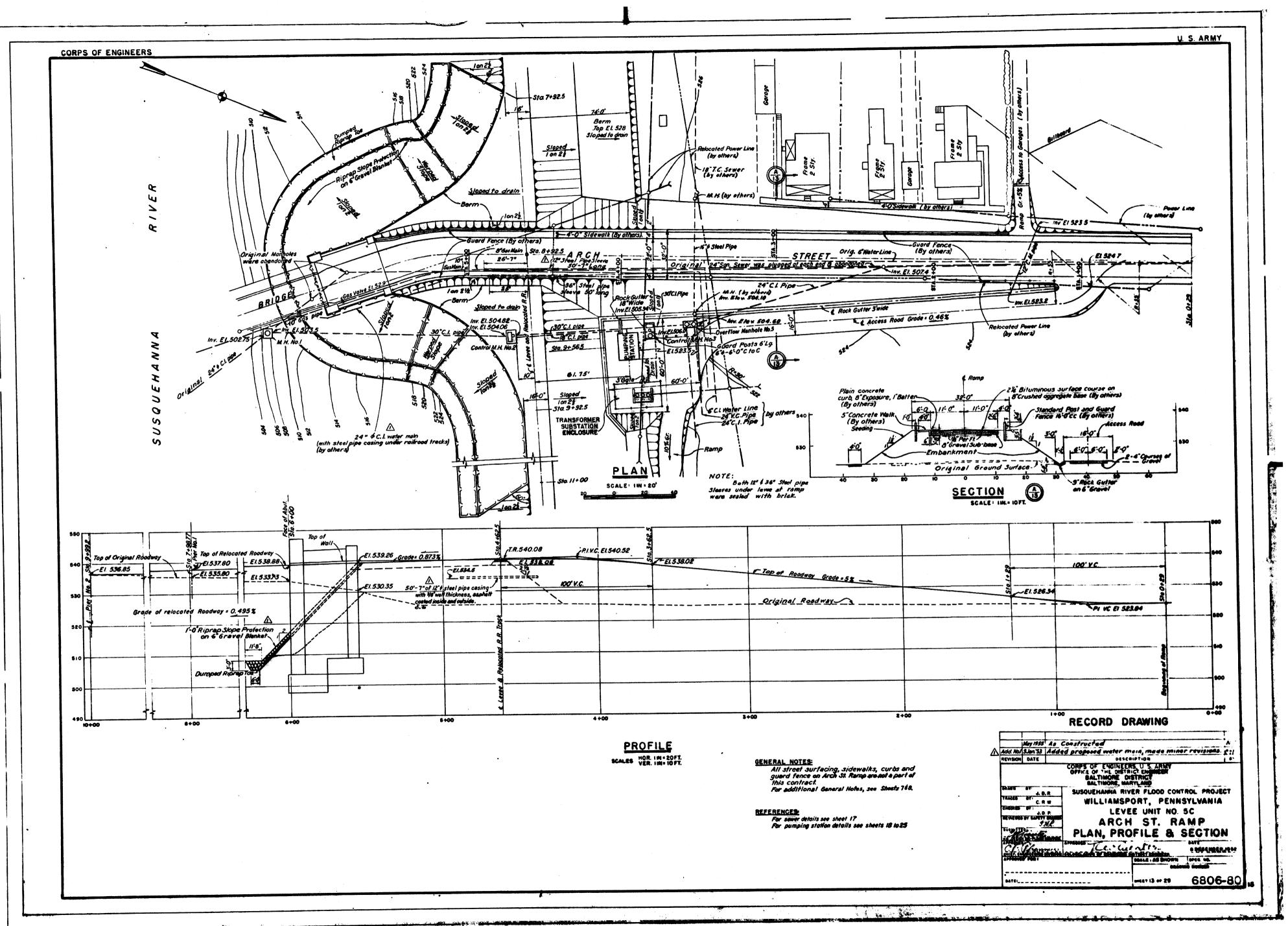




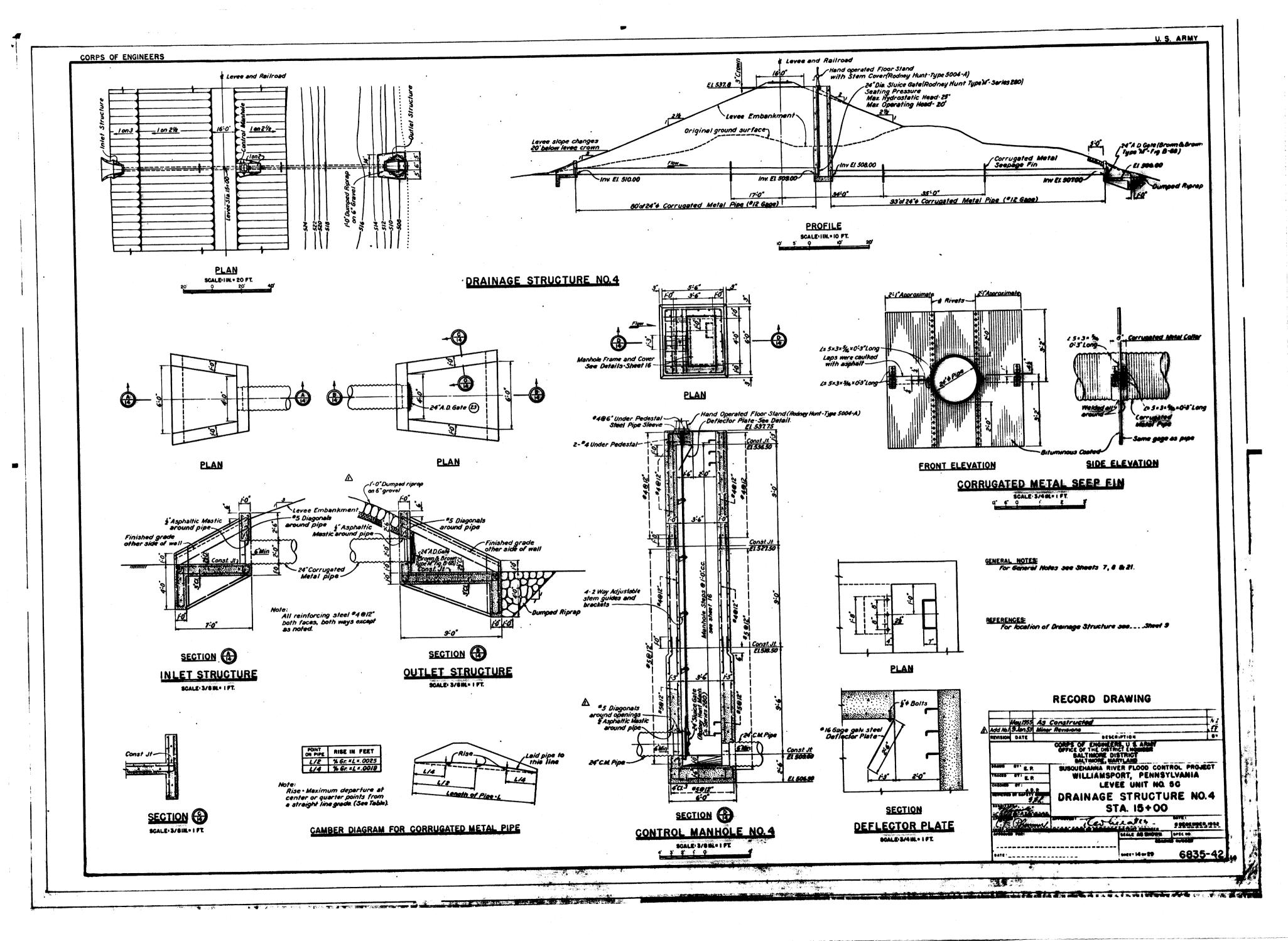


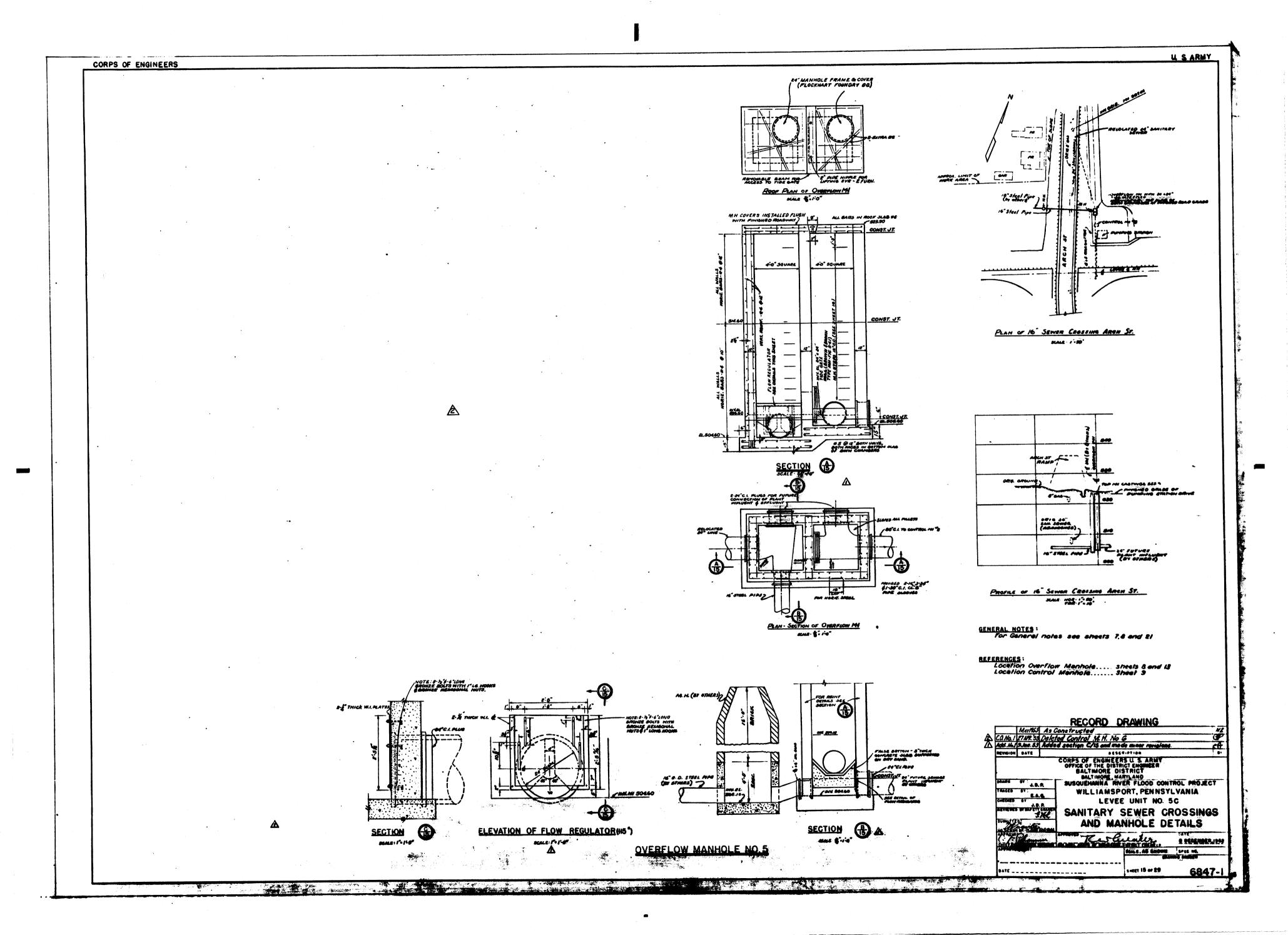


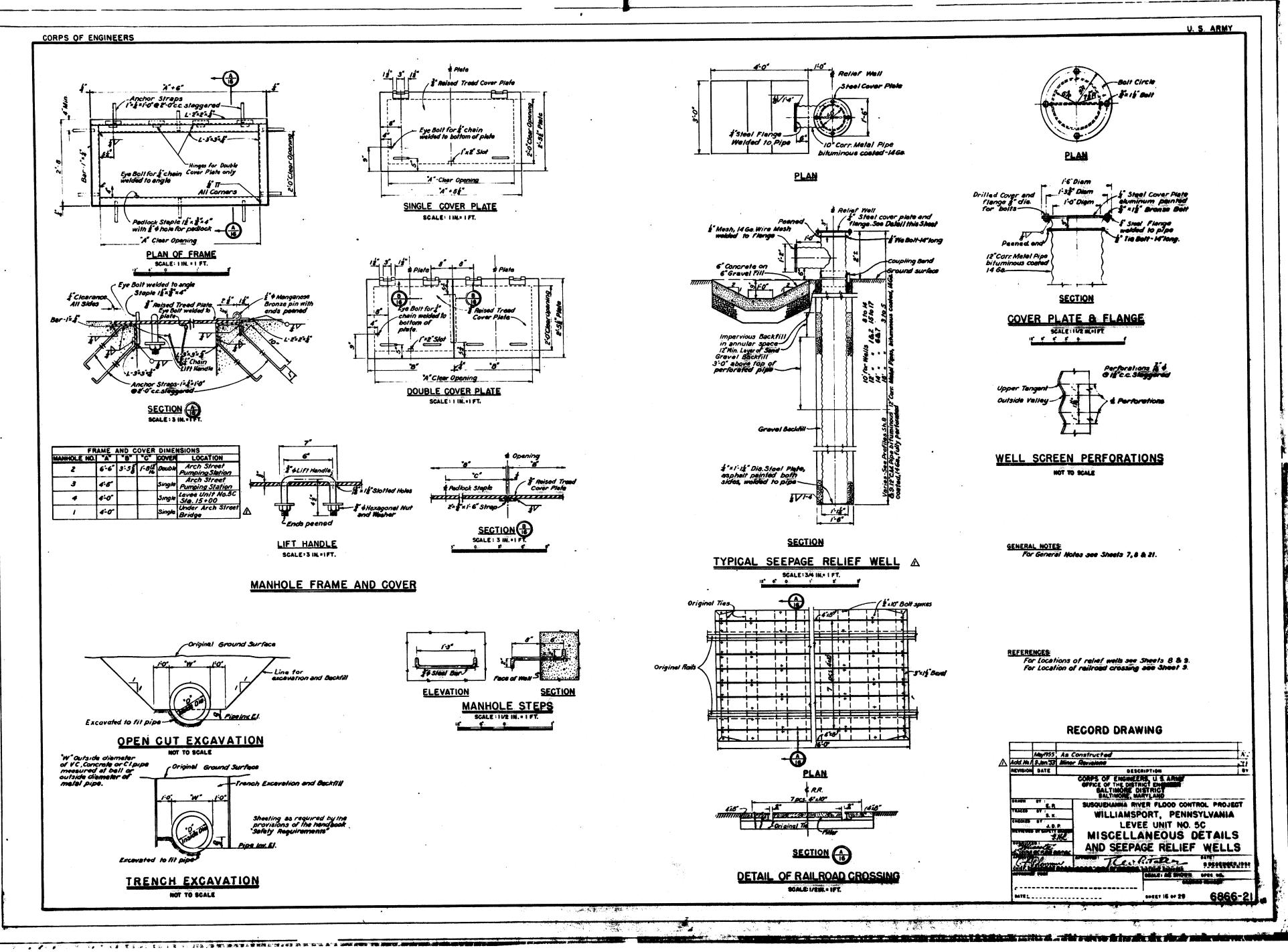




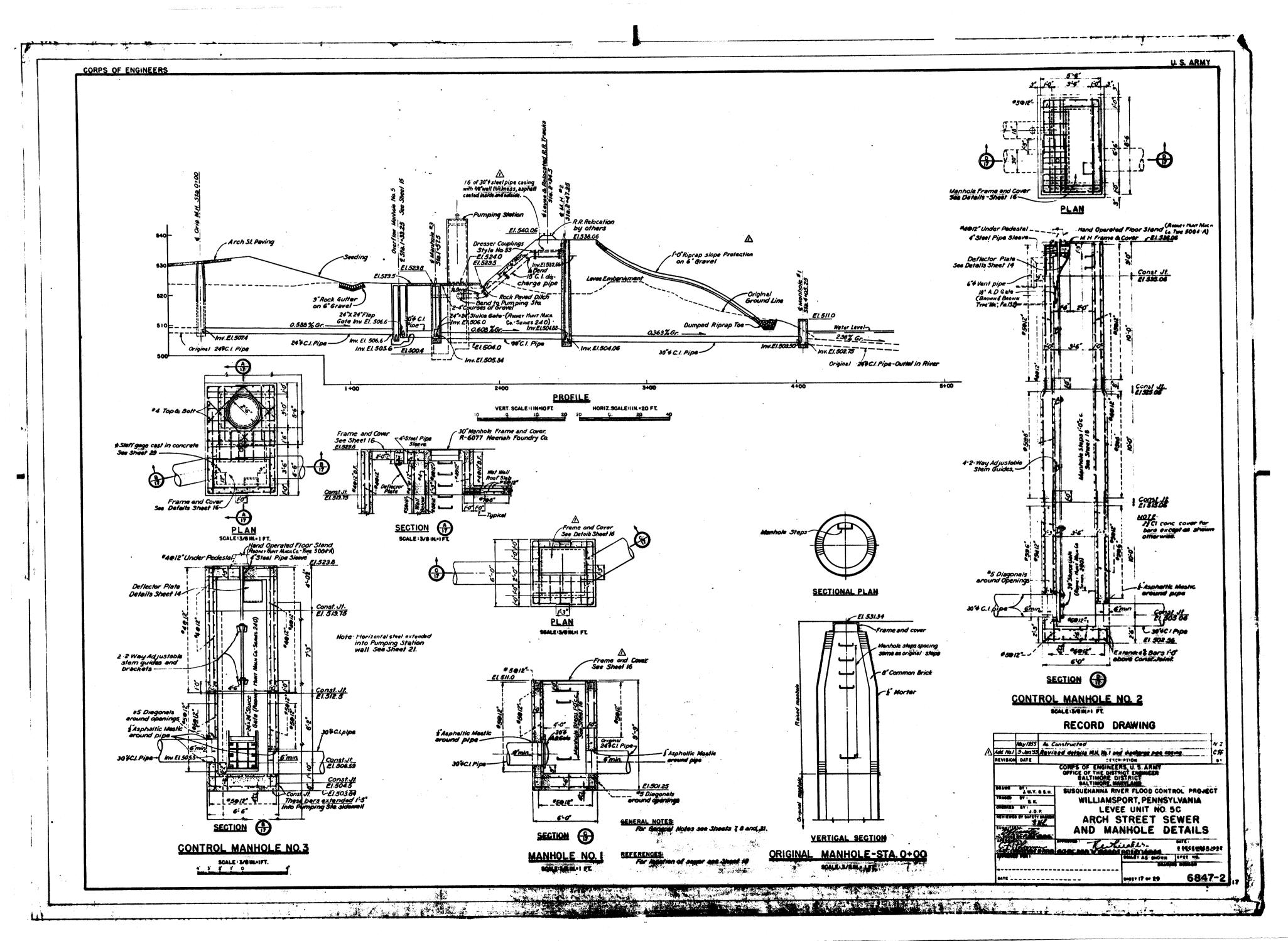
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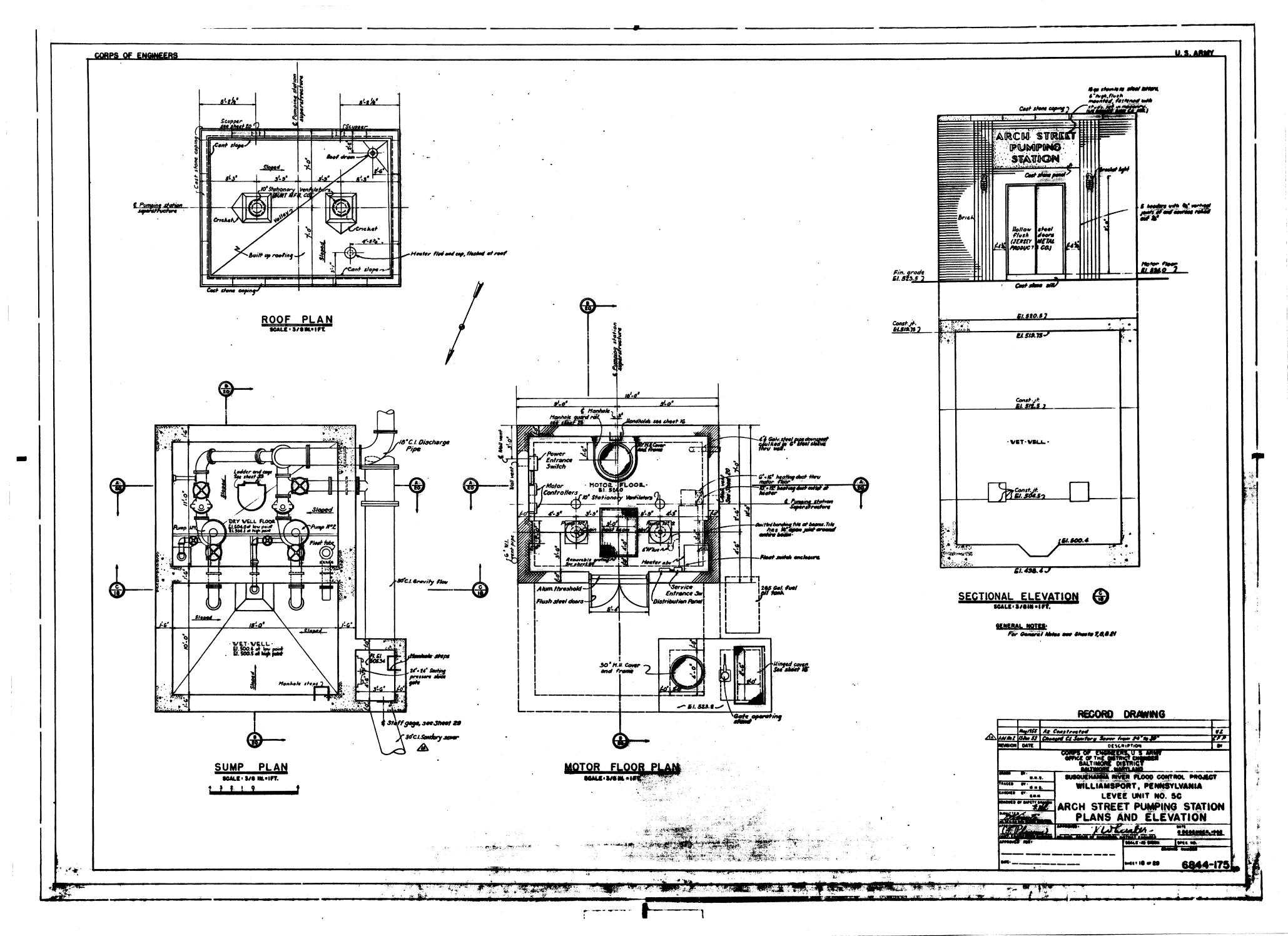


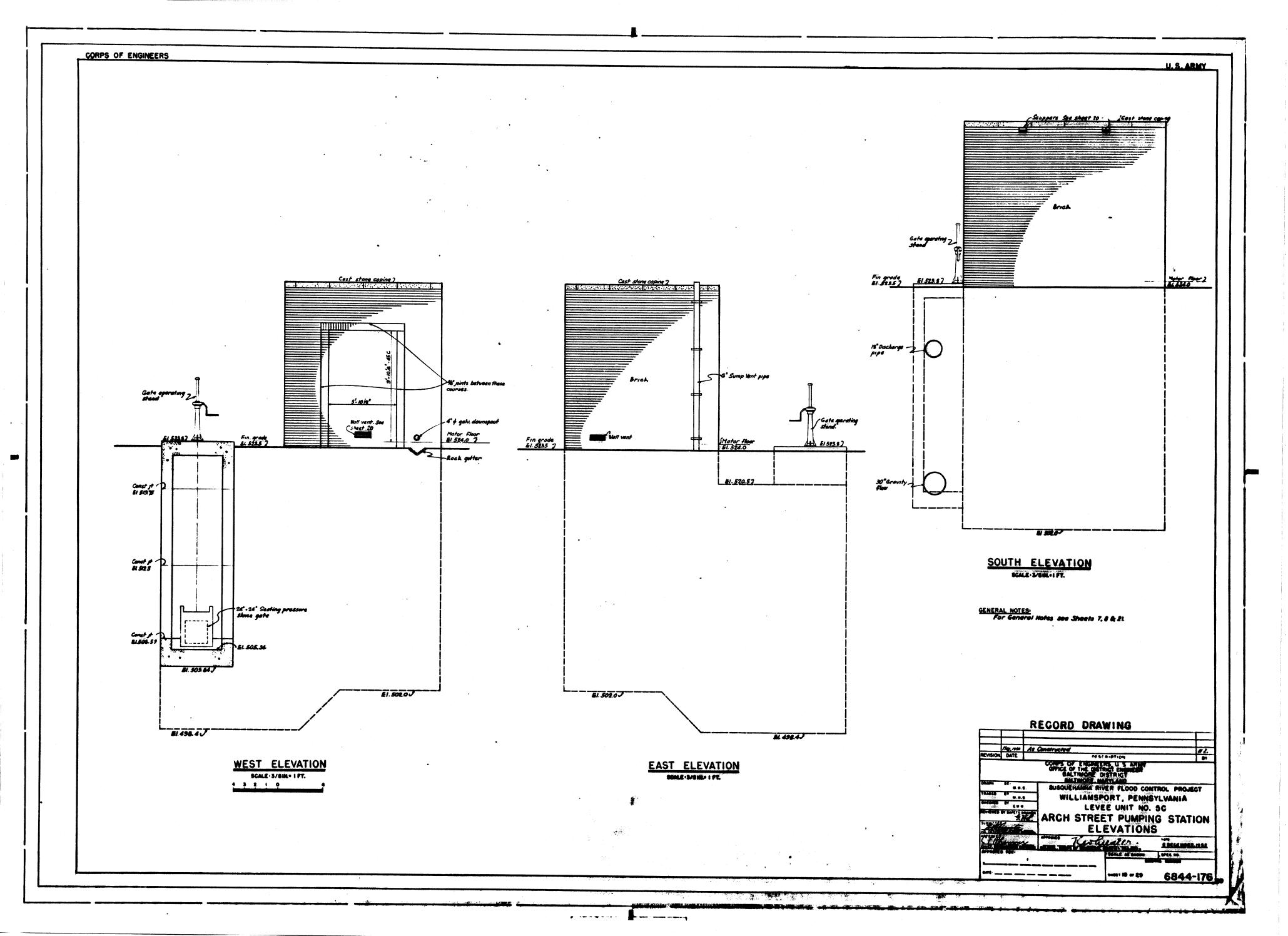


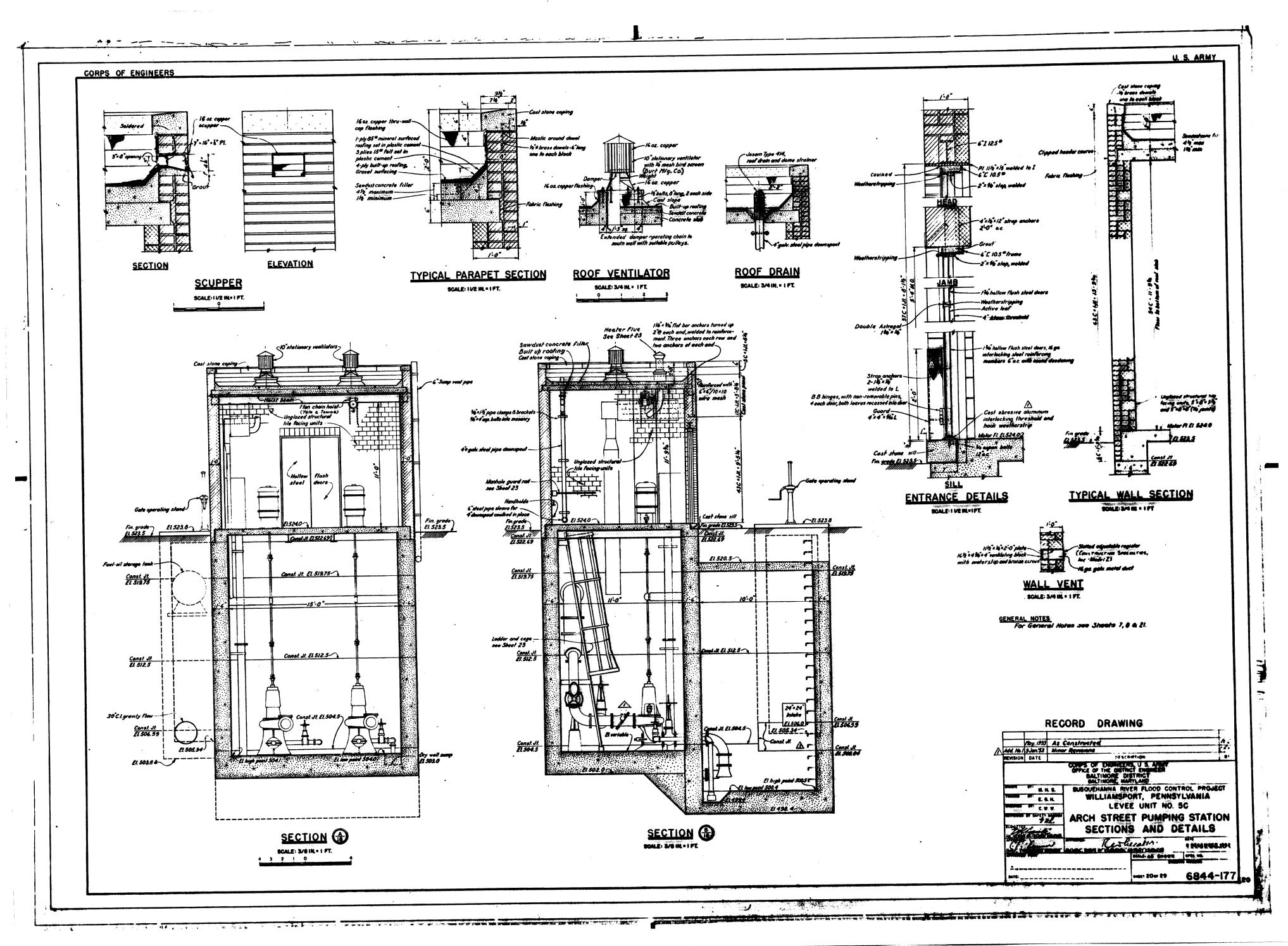


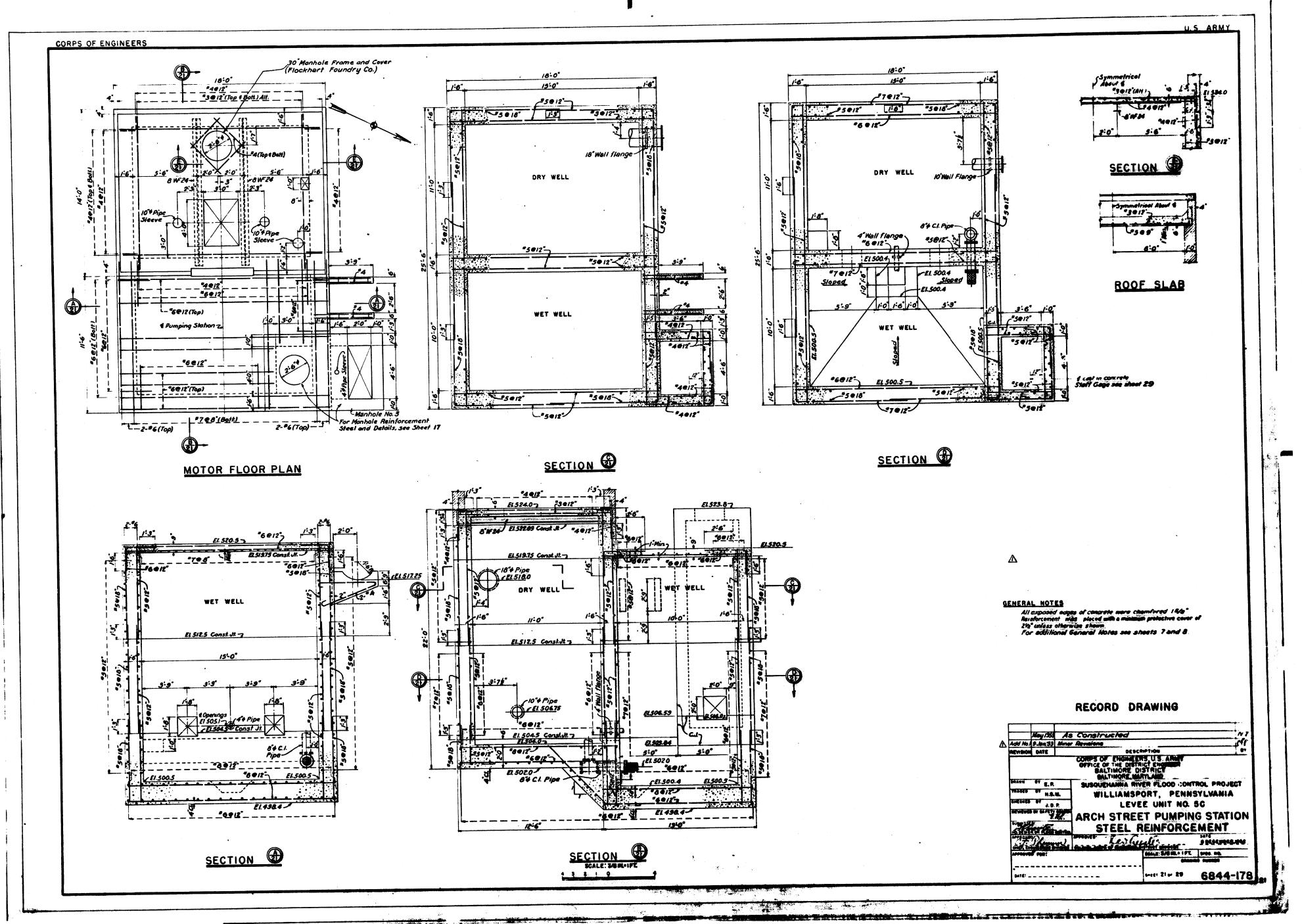
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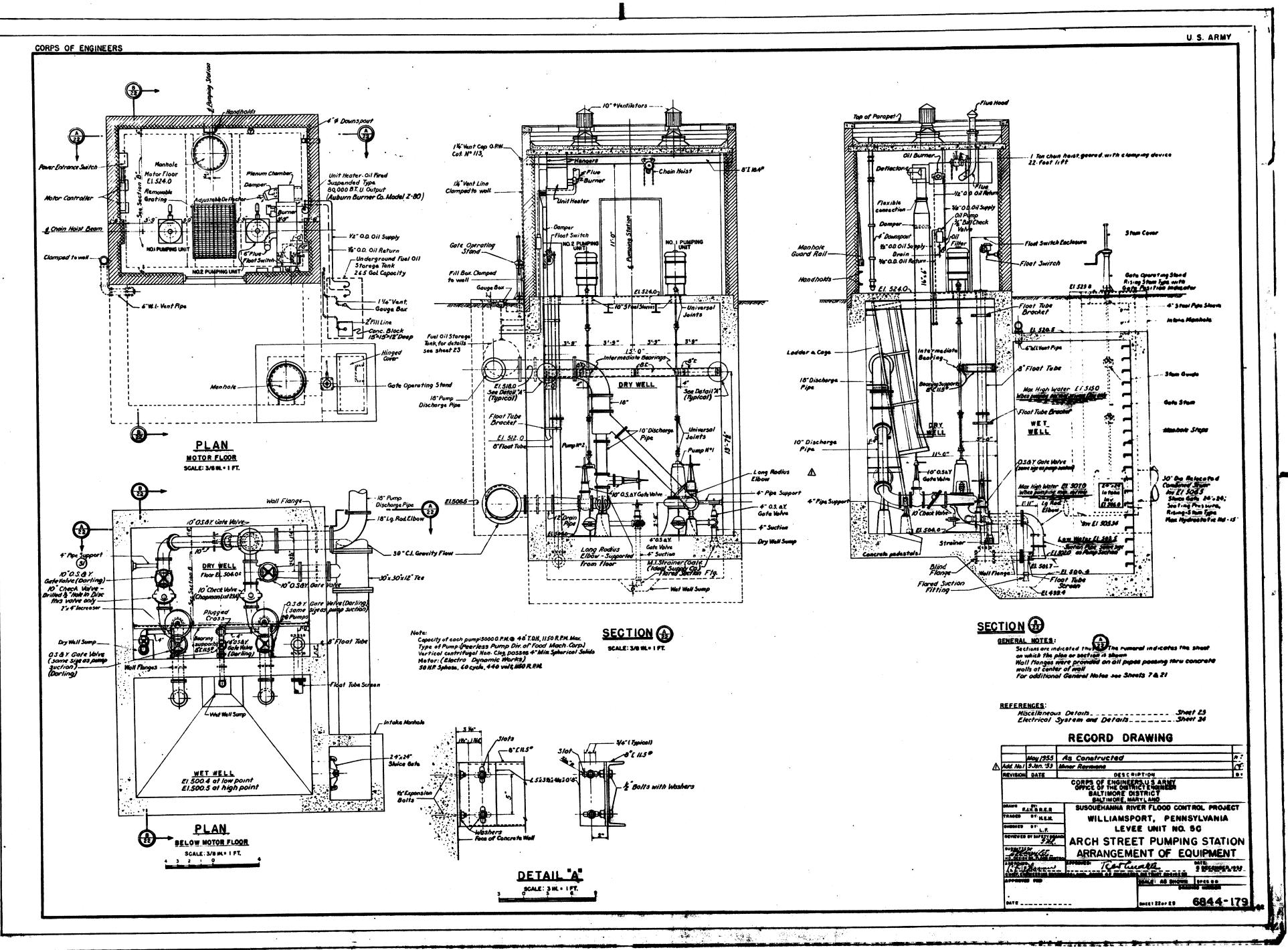




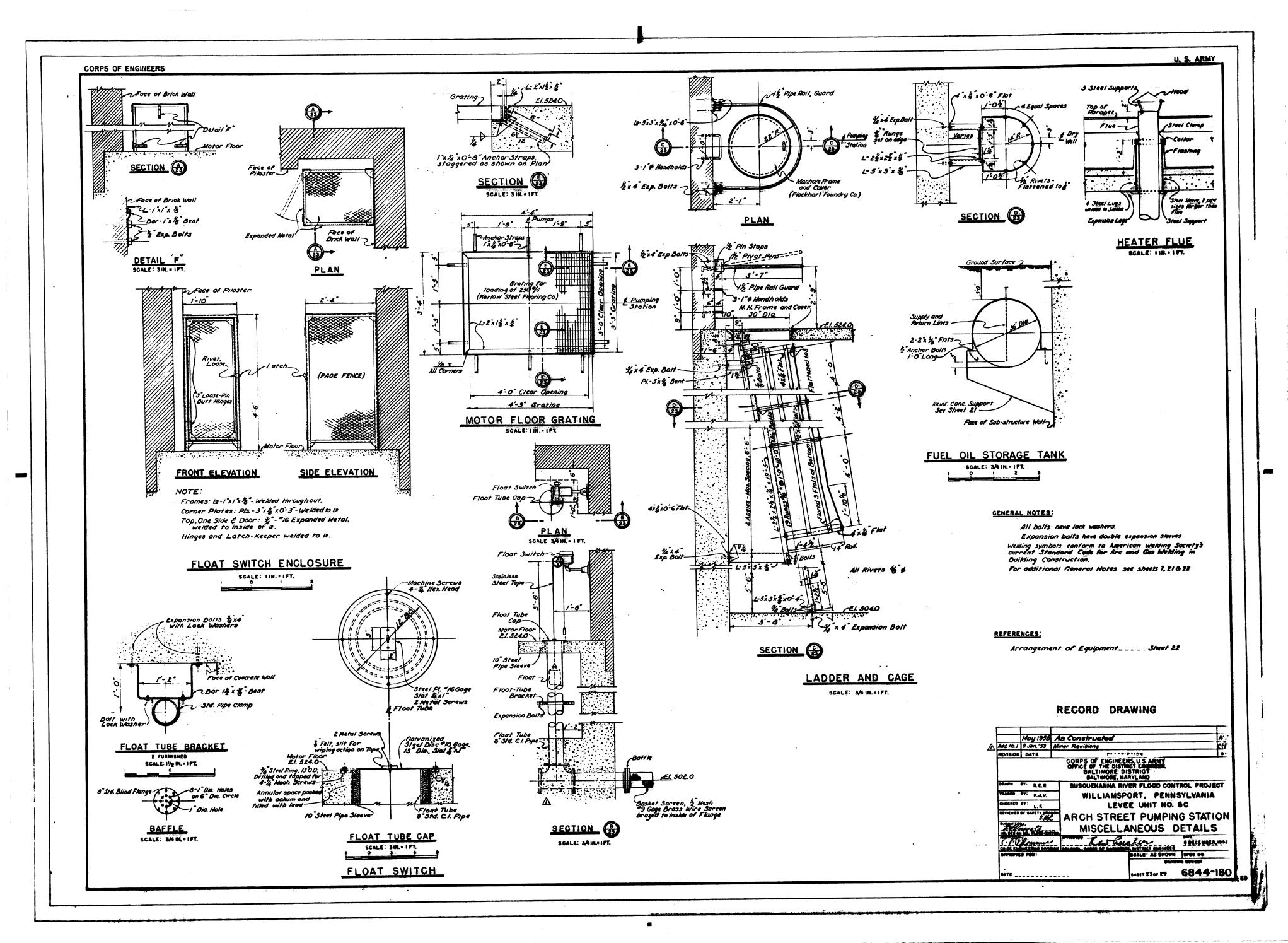


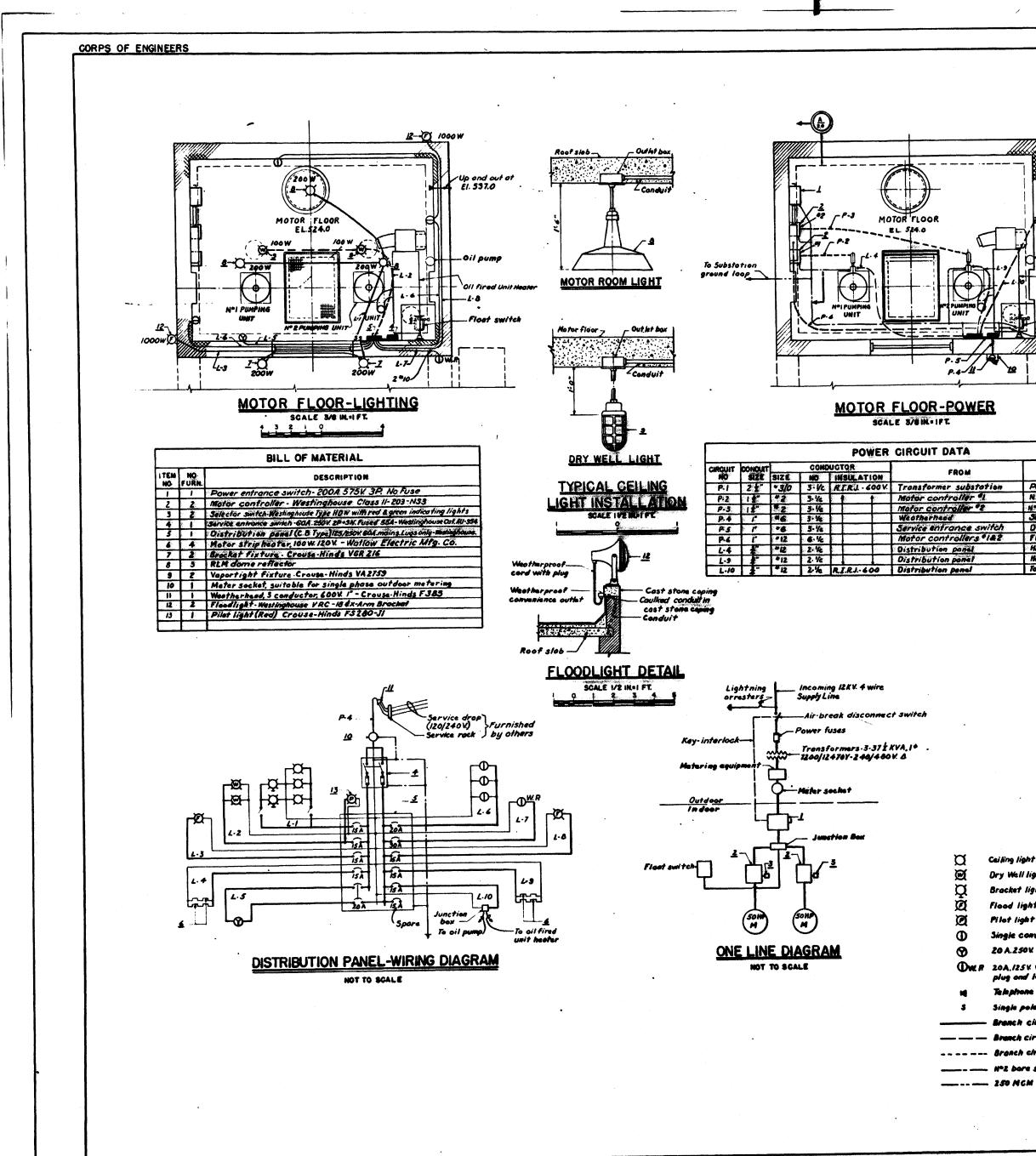


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U.S. ARMY Grinnell C.B. Universol concrete insert, Fig. 282 & Pumping Units Max spacing 8'0". ik Condui nction box for connection to oil fired unit heater - Conduit union 3/4" Conduit and all pump - Condulets to hester. 5/1\* + Rod Mater floor Oil pump Ground wire brozed terminal lug Terminal lug attached to baseplote Oil Fired Unit Heater with to cap screw a brok 145 teel pipe ""Std conduit Candui s/ne vie albew Floot switc Mainen ...... to floot switch MOTOR CONNECTION NOT TO SCALE CONDUIT HANGER NOT TO SCALE \*30 Cost stone coping 3\*3/0 to Motor TO controllers \_\_\_\_\_ Power entrance switch to Float Switch. 2° Conduit Service droi Nºl Pumping unit Service rech Nº 2 Rumping unit Service entrance switc Distribution ponel Float switch J T Stored P-2 Mator Floor Heaters, Nºl Pumping Unit Heaters, NºZ Pumping Unit To junction box -Wotertight To float surtak stismel connection \_**\_\_** ∙ To No.I Pumping Unit -> · <u>10</u> To No. 2 Pumping Unit ELEVATION e Motor ficer ; 🕅 Tin ( SECTION-120/240 V SERVICE ENTRANCE GENERAL NOTES Figures underlined indicate item numbers in Gill of Meterial Bill of Material includes only principal items of equipment Brazed oil ground wires to structure steel and to terminal lugs connections to equipment frames SCALE: 3/8 M. . I FT lugs for Where conduit was run exposed it was adequately supported with hangers spaced not more than Bft on conters, nor less than one langer per conduit All conduits are lis unless otherwise noted Conductors are copper All conductors are «iz unless otherwise noted LEGEND Dry Well light Bracket light REFERENCES: Flood light RECORD DRAWING Single convenience outlet with plug, polarized nted 1.0"up 20 A.250% receptacle with plug polarized NZ May 1955 As Constructed OWR 20A.1254 weatherproof convenience outlet with DESCRIPTION CORPS OF ENGINEERSU'S AMON OFFICE OF THE DISTRICT ENGINEER BALTIMORE DISTRICT BALTIMORE, MARYLAND plug and lock type cover, p REVISION DATE Telephone outlet. Nounted 1'-0"up Single pole switch-Mounted 4'-0" up SUSQUENANNA RIVER FLOOD CONTROL PROJECT WILLIAMSPORT, PENNSYLWANA LEVEE UNIT NO 5C ARCH STREET PUMPING STATION ELECTRICAL SYSTEM DRAWN SY: F. D. Brench circuit concooled in cuiling or well TRACED BY H.E.N. Branch circuit conceeled in floor EOKED OV K.F. ENED BY SWETT BAR \_\_\_\_ Branch circuit exposed Man Viller & DETAILS HAT The Reader \_\_\_\_\_ 250 NCM bere strended copper ground wire C.F. Uffermer el 1 1995 WHEARY

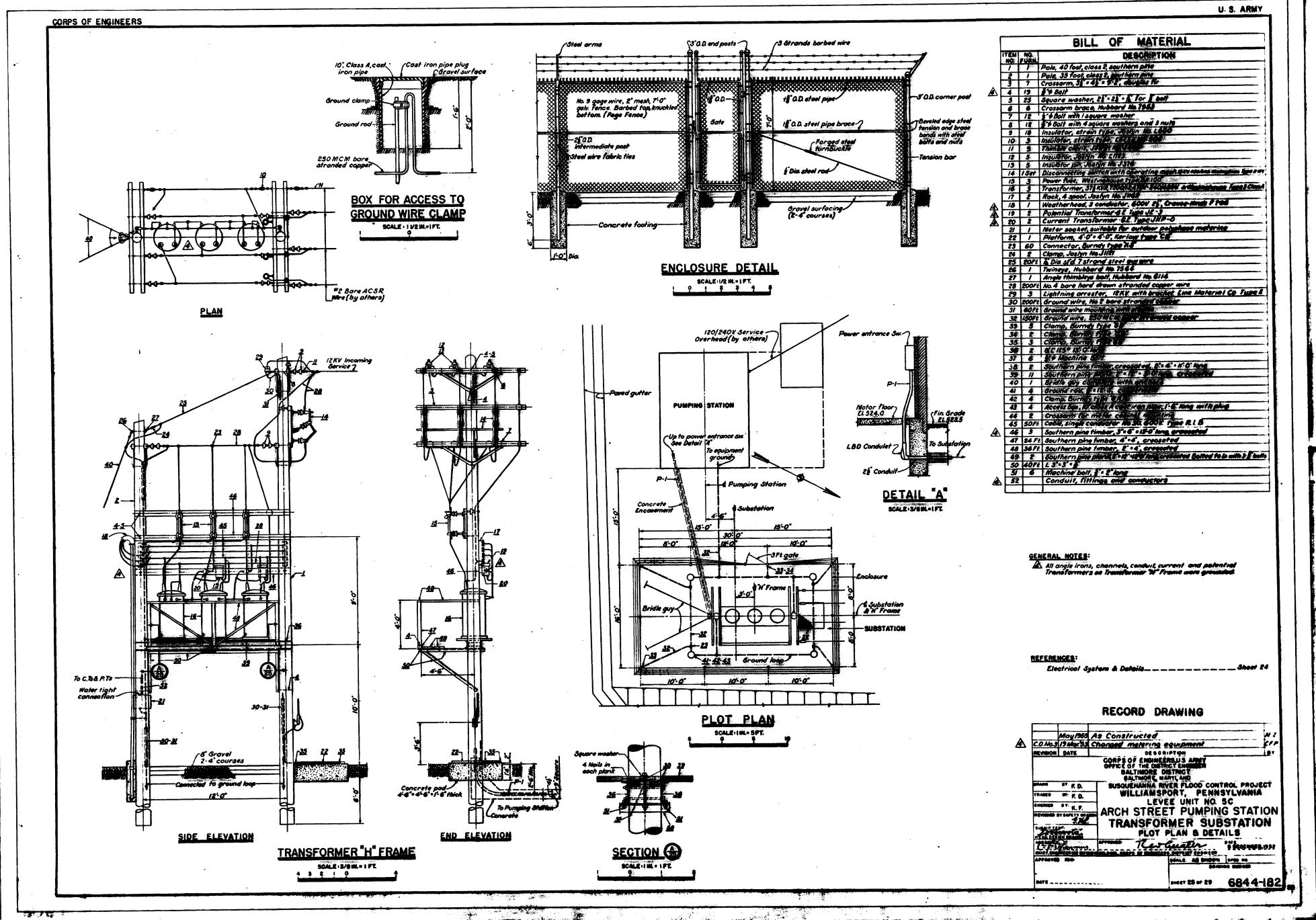
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