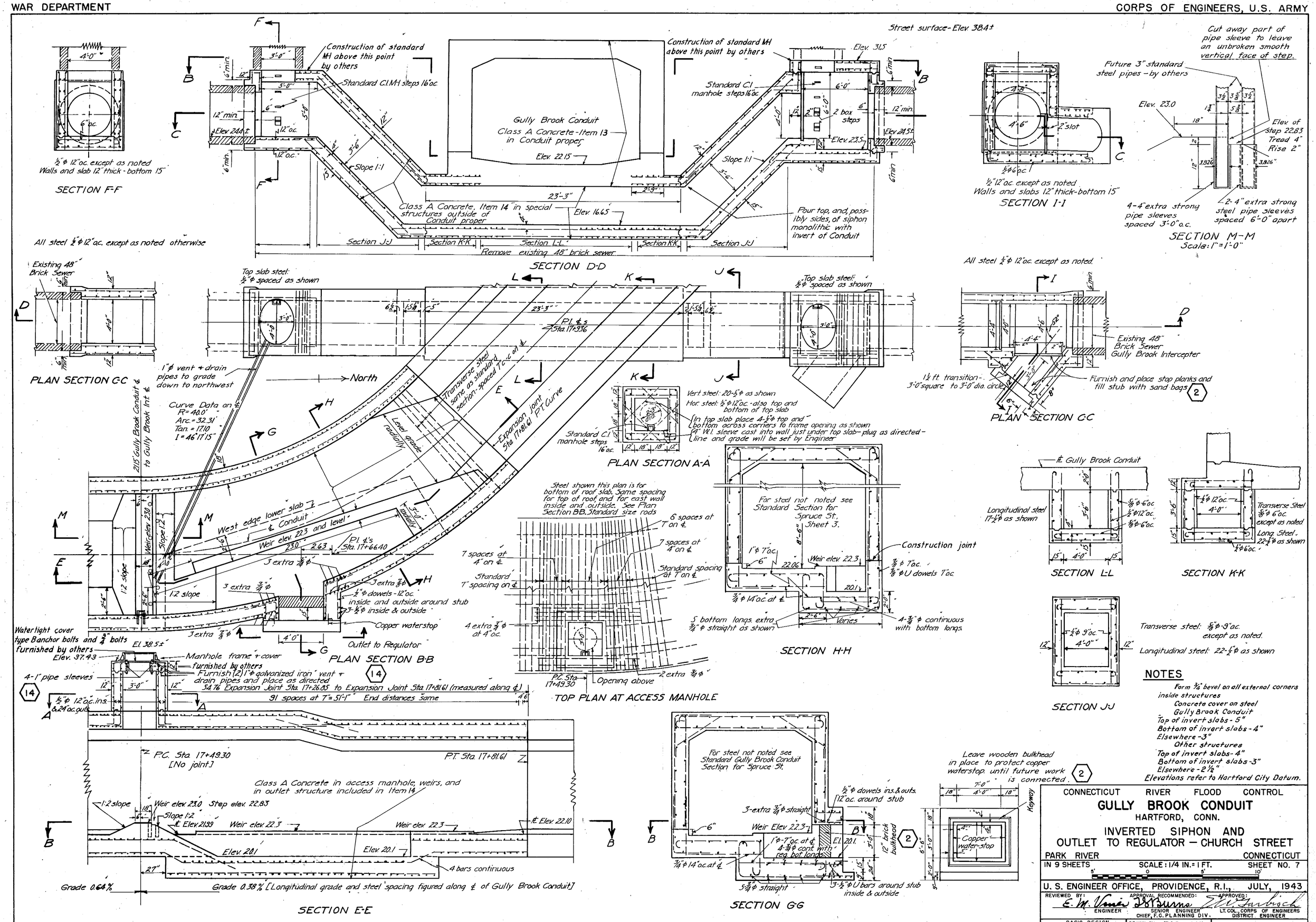
SECTION F-F
½"φ 12"oc. except as noted
Walls and slab 12" thick - bottom 15"
Construction of standard MH above this point by others
Standard C.I. MH steps 16"oc.
Gully Brook Conduit
Class A Concrete - Item 13 in Conduit proper
Elev. 22.15
Construction of standard MH above this point by others
Standard C.I. manhole steps 16"oc.
2 box steps
Slope 1:1
Class A Concrete, Item 14 in special structures outside of Conduit proper
Elev. 16.65
Pour top, and, possibly sides, of siphon monolithic with invert of Conduit
Section J-J
Section K-K
Section L-L
Remove existing 48" brick sewer
SECTION D-D
All steel ½"φ 12"oc. except as noted otherwise
Street surface - Elev. 38.4±
Future 3" standard steel pipes - by others
Cut away part of pipe sleeve to leave an unbroken smooth vertical face of step.
Elev. 23.0
Elev. of Step 22.83
Tread 4"
Rise 2"
½"φ 12"oc. except as noted
Walls and slabs 12" thick - bottom 15"
SECTION I-I
4-4" extra strong pipe sleeves spaced 3'-0" o.c.
2-4" extra strong steel pipe sleeves spaced 6'-0" apart
SECTION M-M
Scale: 1" = 1'-0"
Existing 48" Brick Sewer
PLAN SECTION G-G
Top slab steel: ½"φ spaced as shown
P.I. ℄'s Sta. 17+93.6
1"φ vent + drain pipes to grade down to northwest
North
Curve Data on ℄
R = 40.0'
Arc = 32.31'
Tan. = 17.10
I = 46°17'15"
Transverse steel same as standard section - spaced 7"o.c. on ℄
Expansion joint Sta. 17+81.61 P.T. Curve
Level grade radially
West edge lower slab ℄ Conduit
Weir elev. 22.3 and level
P.I. ℄'s Sta. 17+66.40
3 extra ¾"φ
½"φ dowels - 12"oc. inside and outside around stub
3-½"φ inside & outside
Copper waterstop
Outlet to Regulator
PLAN SECTION B-B
Vert steel: 20-½"φ as shown
Hor. steel: ½"φ 12"oc. - also top and bottom of top slab
In top slab place 4-½"φ top and bottom across corners to frame opening as shown
4" W.I. sleeve cast into wall just under top slab - plug as directed - line and grade will be set by Engineer
Standard C.I. manhole steps 16"oc.
PLAN SECTION A-A
All steel ½"φ 12"oc. except as noted.
Existing 48" Brick Sewer Gully Brook Intercepter
1½ ft. transition - 3'-0" square to 3'-0" dia. circle
Furnish and place stop planks and fill stub with sand bags
PLAN SECTION C-C
Steel shown this plan is for bottom of roof slab. Same spacing for top of roof and for east wall inside and outside. See Plan Section B-B. Standard size rods
7 spaces at 4" on ℄
6 spaces at 7" on ℄
Standard 7" spacing on ℄
Standard spacing at 7" on ℄
4 extra ¾"φ at 4"oc.
P.C. Sta. 17+49.30
Opening above
2 extra ¾"φ
TOP PLAN AT ACCESS MANHOLE
For steel not noted see Standard Section for Spruce St. Sheet 3.
Construction joint
⅞"φ 7"oc.
⅞"φ U dowels 7"oc.
¾"φ 14"oc. at ℄
5 bottom longs. extra ¾"φ straight as shown
4-¾"φ continuous with bottom longs.
Varies
SECTION H-H
Longitudinal steel 17-½"φ as shown
⅝"φ-6"oc.
½"φ 12"oc.
⅝"φ-6"oc.
SECTION L-L
Transverse Steel ⅝"φ 6"oc. except as noted
Long. Steel - 22-½"φ as shown
½"φ 6"oc.
SECTION K-K
Transverse steel: ⅝"φ 9"oc. except as noted.
Longitudinal steel: 22-½"φ as shown
SECTION J-J
Watertight cover type Banchor bolts and ¾" bolts furnished by others
Manhole frame + cover furnished by others
Furnish (2) 1"φ galvanized iron vent + drain pipes and place as directed
4-1" pipe sleeves
½"φ 12"oc. ins. & 24"oc. outs.
34.76 Expansion Joint Sta. 17+26.83 to Expansion Joint Sta. 17+81.61 (measured along ℄)
91 spaces at 7" = 51'-1" End distances same
P.C. Sta. 17+49.30 [No joint]
P.T. Sta. 17+81.61
Class A Concrete in access manhole, weirs, and in outlet structure included in Item 14
Weir elev. 23.0
Step elev. 22.83
Slope 1:2
Weir elev. 22.3
Elev. 20.1
4 bars continuous
Grade 0.64%
Grade 0.38% [Longitudinal grade and steel spacing figured along ℄ of Gully Brook Conduit]
SECTION E-E
For steel not noted see Standard Gully Brook Conduit Section for Spruce St.
½"φ dowels ins. & outs. 12"oc. around stub
3-extra ¾"φ straight
Weir Elev. 22.3
12" brick bulkhead
1"φ-7"oc. at ℄ 4-¾"φ cont. with reg. bot. longs.
¾"φ 14"oc. at ℄
3-½"φ U bars around stub inside & outside
SECTION G-G
Leave wooden bulkhead in place to protect copper waterstop until future work is connected.
Keyway
Copper water-stop
NOTES
Form ⅜" bevel on all external corners inside structures
Concrete cover on steel
Gully Brook Conduit
Top of invert slabs - 5"
Bottom of invert slabs - 4"
Elsewhere - 3"
Other structures
Top of invert slabs - 4"
Bottom of invert slabs - 3"
Elsewhere - 2½"
Elevations refer to Hartford City Datum.
CONNECTICUT RIVER FLOOD CONTROL
GULLY BROOK CONDUIT
HARTFORD, CONN.
INVERTED SIPHON AND OUTLET TO REGULATOR — CHURCH STREET
PARK RIVER CONNECTICUT
IN 9 SHEETS
SCALE: 1/4 IN. = 1 FT.
SHEET NO. 7
U. S. ENGINEER OFFICE, PROVIDENCE, R.I., JULY, 1943
REVIEWED BY: ENGINEER
APPROVAL RECOMMENDED: SENIOR ENGINEER, CHIEF, F.C. PLANNING DIV.
APPROVED: LT. COL., CORPS OF ENGINEERS, DISTRICT ENGINEER
BASIC DESIGN BY THE CITY OF HARTFORD
DRAWN BY: W.G.D. - J.J.M.
TRACED BY: H.E.O.
CHECKED BY: A.W.S.
FILE NO. CT-4-3155
12-31-45 As built revisions