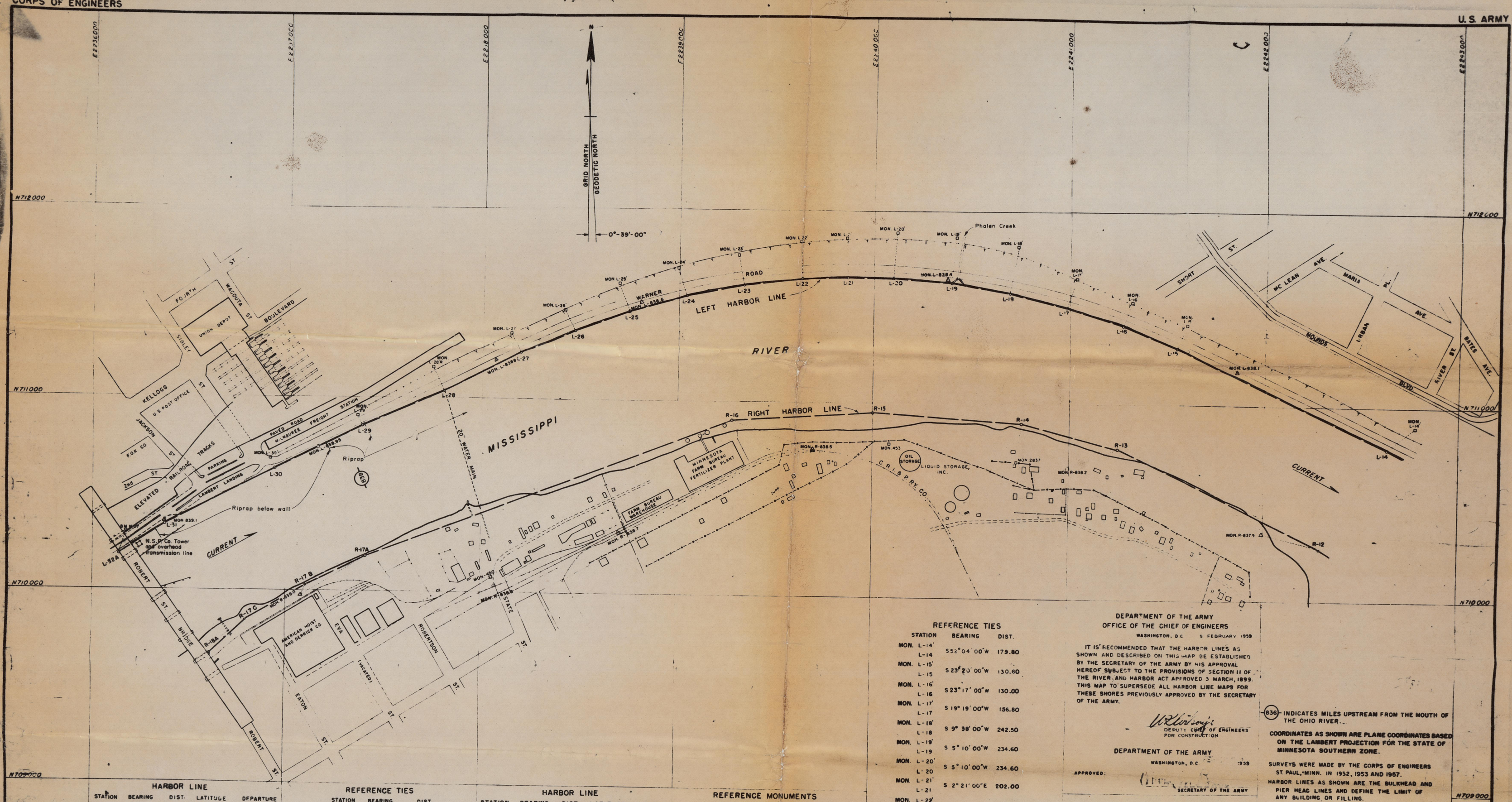
CORPS OF ENGINEERS

U.S. ARMY



HARBOR LINE

STATION	BEARING	DIST.	LATITUDE	DEPARTURE
R-12			N 710,277.08	E 2,242,287.15
R-13	N 64° 37' 41" W	1149.54	N 710,769.65	E 2,241,248.49
R-14	N 75° 27' 11" W	508.02	N 710,897.25	E 2,240,756.76
R-15	N 86° 05' 07" W	758.32	N 710,949.02	E 2,240,000.21
R-16	S 66° 13' 39" W	725.79	N 710,901.27	E 2,239,276.05
R-17A	S 66° 47' 26" W	2005.19	N 710,175.84	E 2,237,406.70
R-17B	S 63° 58' 51" W	332.89	N 710,029.81	E 2,237,107.55
R-17C	S 58° 18' 36" W	359.97	N 709,840.71	E 2,236,801.25
R-18A	S 51° 11' 30" W	262.45	N 709,676.23	E 2,236,596.74

REFERENCE MONUMENTS

STATION	LATITUDE	DEPARTURE
MON.R-837.9	N 710,348.71	E 2,241,995.37
MON.R-838.2	N 710,672.07	E 2,240,993.32
MON. - 2837	N 710,701.10	E 2,240,729.77
MON.R- 453	N 710,788.08	E 2,240,085 :9
MON.R-838.5	N 710,755.19	E 2,239,692.31
MON.R-838.7	N 710,323.01	E 2,238,711.16
MON.R-838.9	N 710,037.57	E 2,238,076.17
MON.- 490	N 710,077.19	E 2,238,054.67
MON.R-839.0	N 709,974.13	E 2,237,079.66

REFERENCE TIES

STATION	BEARING	DIST.
MON R-837.9 R-12	S 76° 12' 25" E	300.44
MON.R-8382 R-13	N 69° 04' 21" E	273.19
MON 2837 R-14	N 7° 50' 00" E	198.00
MON 453 R-15	N 27° 50' 00" W	182.00
MON.R-8385 R-16	N 70° 47' 06" W	440.82
MON.R-839.0 R-17A	N 58° 19' 56" E	384.22
MON.R-839.0 R-17B	N 26° 34' 53" E	62.26
MON.R-839.0 R-17C	S 64° 25' 52" W	308.76

HARBOR LINE

STATION	BEARING	DIST.	LATITUDE	DEPARTURE
L-14			N 710,783.20	E 2,242,635.29
L-15	N 64° 54' 53" W	1203.42	N 711,293.41	E 2,241,545.36
L-16	N 67° 13' 52" W	300.12	N 711,405.56	E 2,241,268.65
L-17	N 71° 42' 21" W	299.72	N 711,503.64	E 2,240,984.08
L-18	N 76° 08' 17" W	299.89	N 711,575.49	E 2,240,692.92
L-19	N 80° 44' 56" W	300.07	N 711,623.72	E 2,240,396.81
L-20	N 85° 11' 18" W	299.83	N 711,648.87	E 2,240,098.04
L-21	N 89° 10' 24" W	234.93	N 711,652.26	E 2,239,863.13
L-22	S 87° 17' 50" W	234.97	N 711,641.18	E 2,239,628.42
L-23	S 83° 14' 13" W	299.93	N 711,605.86	E 2,239,330.58
L-24	S 78° 43' 58" W	299.85	N 711,547.28	E 2,239,036.54
L-25	S 74° 13' 35" W	300.00	N 711,465.73	E 2,238,747.84
L-26	S 69° 45' 35" W	299.74	N 711,362.03	E 2,238,466.81
L-27	S 65° 15' 32" W	299.87	N 711,236.53	E 2,238,194.27
L-28	S 63° 01' 15" W	441.70	N 711,036.14	E 2,237,800.64
L-29	S 65° 51' 07" W	456.42	N 710,849.42	E 2,237,384.16
L-30	S 63° 03' 54"	498.54	N 710,623.59	E 2,236,939.70
L-31	S 62° 54' 20" W	634.05	N 710,334.82	E 2,236,375.26
L-32A	S 56° 58' 32" W	284.39	N 710,179.85	E 2,236,136.82

REFERENCE MONUMENTS

STATION	LATITUDE	DEPARTURE
MON. L-14	N 710,893.73	E 2,242,777.10
MON. L-838.1	N 711,176.93	E 2,241,854.58
MON. L-15'	N 711,413.33	E 2,241,597.11
MON. L-16'	N 711,528.97	E 2,241,320.04
MON. L-17'	N 711,651.61	E 2,241,035.95
MON. L-18'	N 711,814.57	E 2,240,733.50
MON. L-19'	N 711,857.37	E 2,240,417.94
MON. L-838.4	N 711,850.51	E 2,240,378.26
MON. L-20'	N 711,882.52	E 2,240,119.17
MON. L-21'	N 711,854.09	E 2,239,854.85
MON. L-22'	N 711,832.74	E 2,239,821.12
MON. L-23'	N 711,758.74	E 2,239,301.80
MON. L-24'	N 711,690.15	E 2,238,997.54
MON. L-838.6	N 711,512.51	E 2,238,806.02
MON. L-25'	N 711,510.58	E 2,238,695.85
MON. L-26'	N 711,470.77	E 2,238,417.78
MON. L-27'	N 711,345.27	E 2,238,145.44
MON. L-838.8	N 711,198.67	E 2,238,061.94
MON. L-28'R	N 711,158.76	E 2,237,742.26
MON. L-29'	N 710,904.23	E 2,237,359.76
MON. L-838.95	N 710,738.90	E 2,237,158.54
MON. L-30	N 710,676.92	E 2,236,912.88
MON. L-839.1	N 710,345.91	E 2,236,369.07
B.M.H.-27	N 710,298.28	E 2,236,170.73

REFERENCE TIES

STATION	BEARING	DIST.
MON. L-14' L-14	S 52° 04' 00" W	179.80
MON. L-15' L-15	S 23° 20' 00" W	130.60
MON. L-16' L-16	S 23° 17' 00" W	130.00
MON. L-17' L-17	S 19° 19' 00" W	156.80
MON. L-18' L-18	S 9° 38' 00" W	242.50
MON. L-19' L-19	S 5° 10' 00" W	234.60
MON. L-20' L-20	S 5° 10' 00" W	234.60
MON. L-21' L-21	S 2° 21' 00" E	202.00
MON. L-22' L-22	S 2° 11' 00" E	191.70
MON. L-23' L-23	S 10° 44' 00" E	155.60
MON. L-24' L-24	S 15° 16' 00" E	148.10
MON. L-25' L-25	S 19° 45' 00" E	153.90
MON. L-26' L-26	S 24° 11' 00" E	119.20
MON. L-27' L-27	S 24° 11' 00" E	119.20
MON. L-28'R L-28	S 25° 27' 34" E	135.81
MON. L-29' L-29	S 24° 00' 00" E	60.00
MON. L-30' L-30	S 26° 42' 00" E	59.70
MON L-839.1 L-31	S 29° 11' 00" E	12.70
B.M.H-27 L-32A	S 15° 58' 34" W	123.21

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS
WASHINGTON, D.C. 5 FEBRUARY 1959

IT IS RECOMMENDED THAT THE HARBOR LINES AS SHOWN AND DESCRIBED ON THIS MAP BE ESTABLISHED BY THE SECRETARY OF THE ARMY BY HIS APPROVAL HEREOF SUBJECT TO THE PROVISIONS OF SECTION 11 OF THE RIVER AND HARBOR ACT APPROVED 3 MARCH, 1899. THIS MAP TO SUPERSEDE ALL HARBOR LINE MAPS FOR THESE SHORES PREVIOUSLY APPROVED BY THE SECRETARY OF THE ARMY.

DEPUTY CHIEF OF ENGINEERS FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 1959

APPROVED:

SECRETARY OF THE ARMY

(836) INDICATES MILES UPSTREAM FROM THE MOUTH OF THE OHIO RIVER.

COORDINATES AS SHOWN ARE PLANE COORDINATES BASED ON THE LAMBERT PROJECTION FOR THE STATE OF MINNESOTA SOUTHERN ZONE.

SURVEYS WERE MADE BY THE CORPS OF ENGINEERS ST. PAUL, MINN. IN 1952, 1953 AND 1957.

HARBOR LINES AS SHOWN ARE THE BULKHEAD AND PIER HEAD LINES AND DEFINE THE LIMIT OF ANY BUILDING OR FILLING.

PH-67

MISSISSIPPI RIVER
ST. PAUL, MINN. HARBOR LINE

IN 5 SHEETS — SHEET NO. 3

200 100 0 200 400
SCALE: 1:2400

ST. PAUL DISTRICT, CORPS OF ENGINEERS — JULY 1958

SUBMITTED: Francis J. Ryder, CHIEF, PERMITS AND STATISTICS BR.
RECOMMENDED: [illegible], CHIEF, OPERATIONS DIV.
APPROVED: Dewey Brown, COL., CORPS OF ENGINEERS

DRAWN BY: G.F.K.
CHECKED BY: J.E.P.
FILE NO. M-H2-88/12
TRANSMITTED WITH REPORT DATED:

24th March 25th
320-685-3005
Mary