

NEG. 1
STANDARD OIL COMPANY

NEG. 4 *
CITY OF ST. PAUL

NEG. 7 *
FREDA C. JOHNSON

NEG. 10 *
EDWARD W. SJOSTEDT
& FRANCES J. SJOSTEDT

NEG. 13 *
FRED C. PIERCE
& MARY E. PIERCE

NEG. 16
CORNELIUS LUCAS
& HELEN LUCAS

NEG. 19
THEODORE C. FITCH & JOSEPHINE A. FITCH
(SLOPE EASEMENT ONLY)
NORTHERN LAND & REALTY COMPANY

NEG. 2
THEODORE L. LABER
& MARTHA T. LABER

NEG. 5 *
ESTHER EMILY LINDQUIST

NEG. 8 *
CLIFFORD E. WILLIAMS
& FLORENCE L. WILLIAMS

NEG. 11 *
HARRY GRIEPEL

NEG. 14 *
GEORGE A. FLIPP
& BERNADINE L. FLIPP

NEG. 17
NORTHERN LAND & REALTY COMPANY
(SLOPE EASEMENT ONLY)

NEG. 20
JAMES M. BLOXAM
(SLOPE EASEMENT ONLY)
NORTHERN LAND & REALTY COMPANY

NEG. 3 *
JOSEPH LABER
& CATHERINE LABER

NEG. 6
FRANK L. FLEISCHACKER
CATHERINE L. FLEISCHACKER

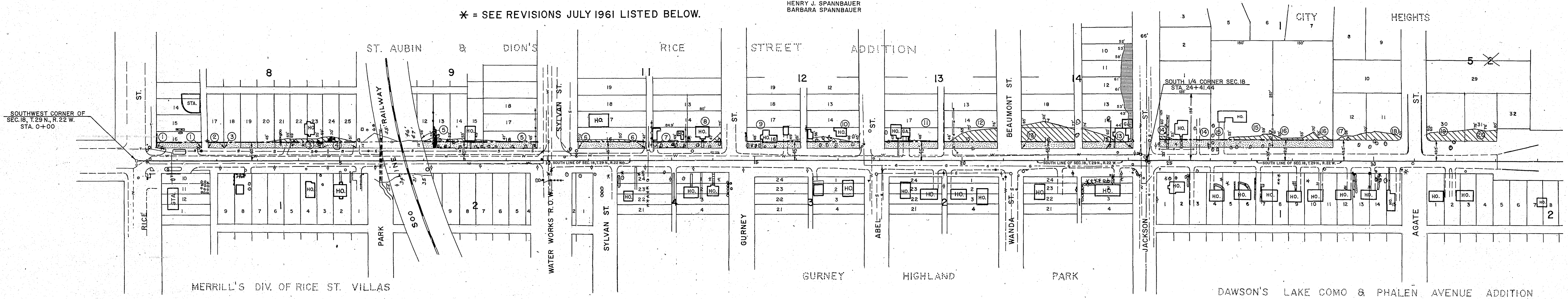
NEG. 9
HARRIET B. ALLEN

NEG. 12
PERCY FULTON
& ALLEANA FULTON

NEG. 15
FRANKLIN L. NOYES
& M. EVELYN NOYES
& KARL M. KOCH
HENRY J. SPANNBAUER
BARBARA SPANNBAUER

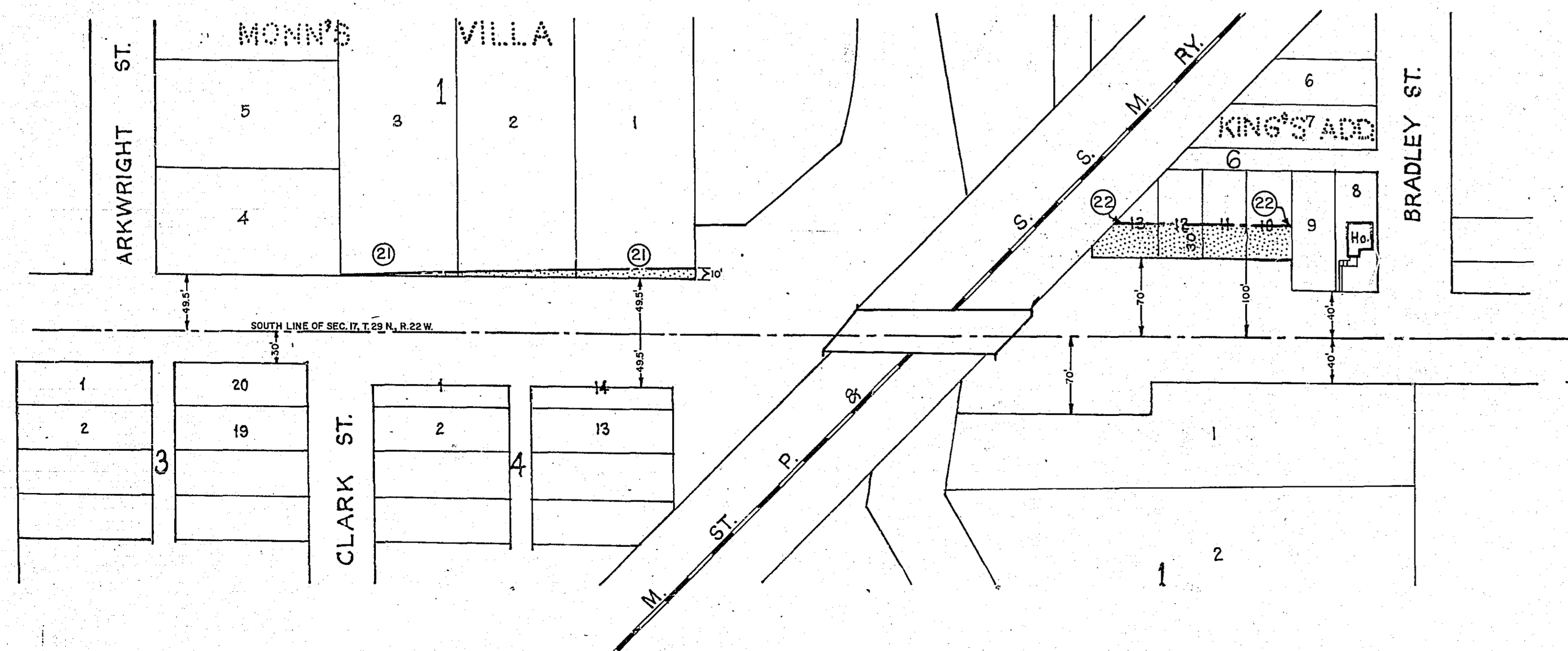
NEG. 18
NORTHERN LAND & REALTY COMPANY
(SLOPE EASEMENT ONLY)

* = SEE REVISIONS JULY 1961 LISTED BELOW.



NEG. 21
RUFUS M. CINCOSKI
& VIVIAN A. CINCOSKI

NEG. 22
CHARLES W. ANDERSON
& HYACINTH ANDERSON



LEGEND

- DENOTES ADDITIONAL RIGHT OF WAY
- DENOTES TEMPORARY SLOPE EASEMENT
- NOTE: SLOPE EASEMENTS SHALL EXPIRE DECEMBER 31, 1961.
- DISTANCES SHOWN ARE TO SECTION LINE.

REVISIONS JULY, 1961

- DENOTES ADDITIONAL TEMPORARY SLOPE EASEMENT
- NEG. 3 SLOPES TO CONFORM TO RIGHT OF WAY.
- NEG. 4 " " " " " " " " STA. 4+55.5 TO 4+65.5
- NEG. 5 " " " " " " " " STA. 7+65 TO 8+50
- NEG. 7 " " " " " " " "
- NEG. 8 " " " " " " " "
- NEG. 10 " " " " " " " "
- NEG. 11 " " " " " " " "
- NEG. 13 ADDITIONAL TEMPORARY SLOPE EASEMENT.
- NEG. 14 SLOPES TO CONFORM TO RIGHT OF WAY.
- COURT APPOINTED COMMISSIONERS AWARDS INCLUDE CONSIDERATION OF THE ABOVE LISTED REVISIONS.

OFFICE OF RAMSEY COUNTY ENGINEER
ACQUISITION OF ADDITIONAL RIGHT OF WAY FOR
LARPENTEUR AVENUE
FROM RICE STREET TO EDGERTON STREET
PROJECT S.P. 62-630-03 U 083-1(3)
SCALE: 1" = 100' FEBRUARY, 1961

Dist. Court File 315959

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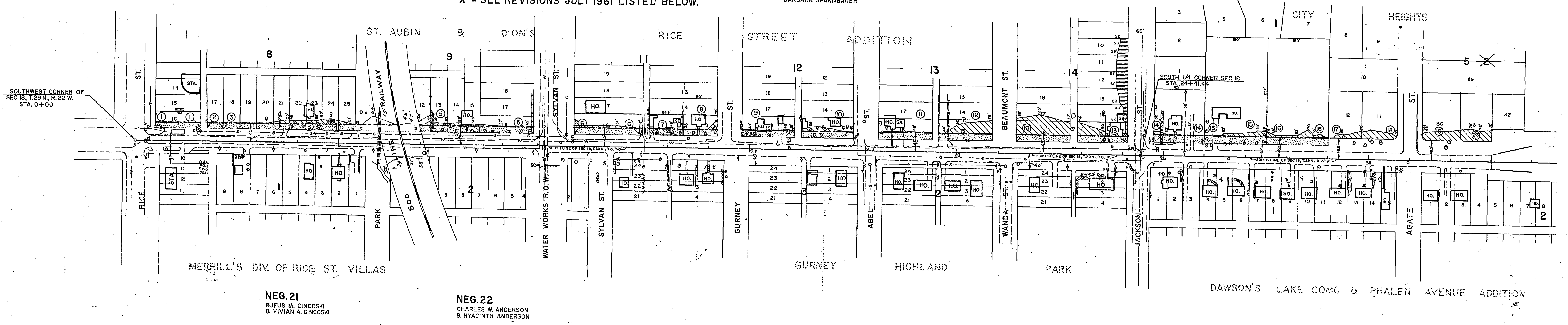
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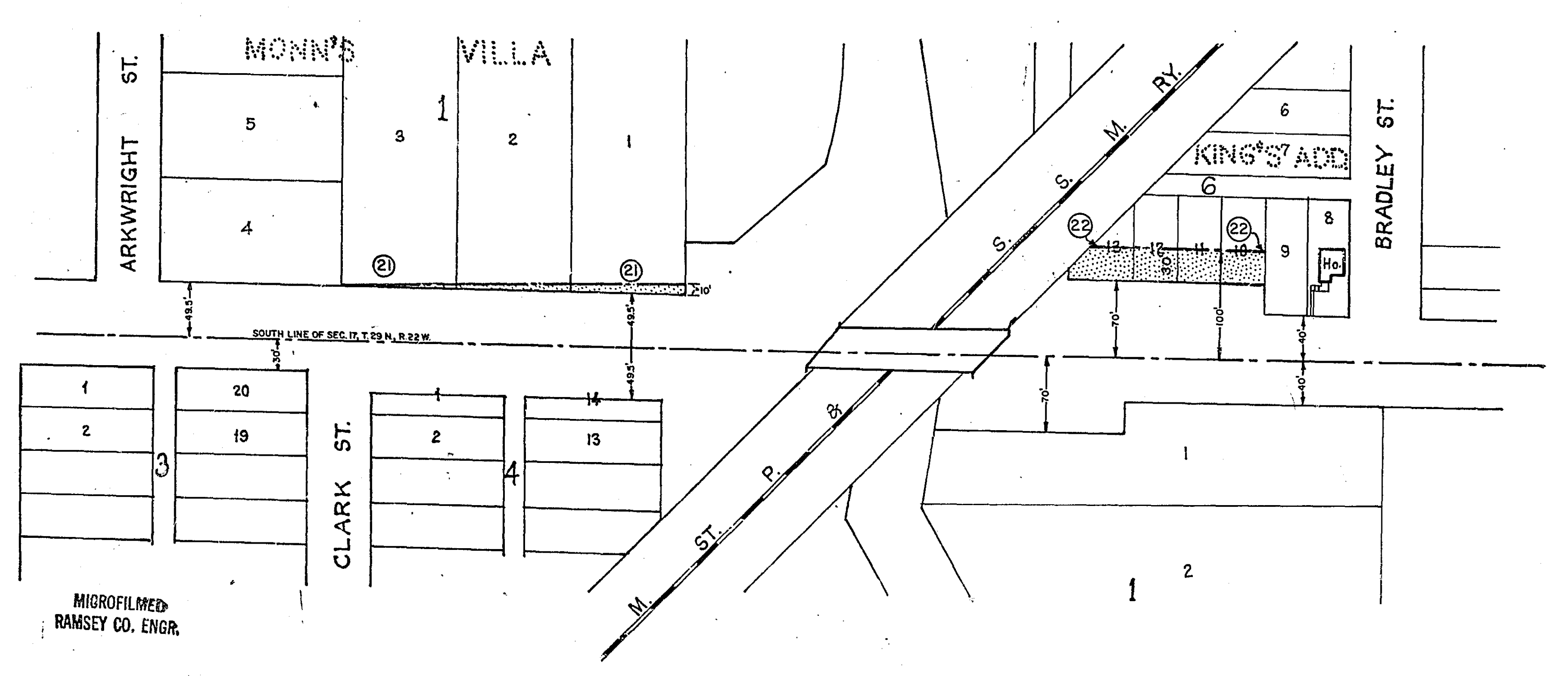
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& VIVIAN A. CINCOSKI

NEG. 22
CHARLES W. ANDERSON
& HYACINTH ANDERSON



LEGEND

- [Symbol] DENOTES ADDITIONAL RIGHT OF WAY
 - [Symbol] DENOTES TEMPORARY SLOPE EASEMENT
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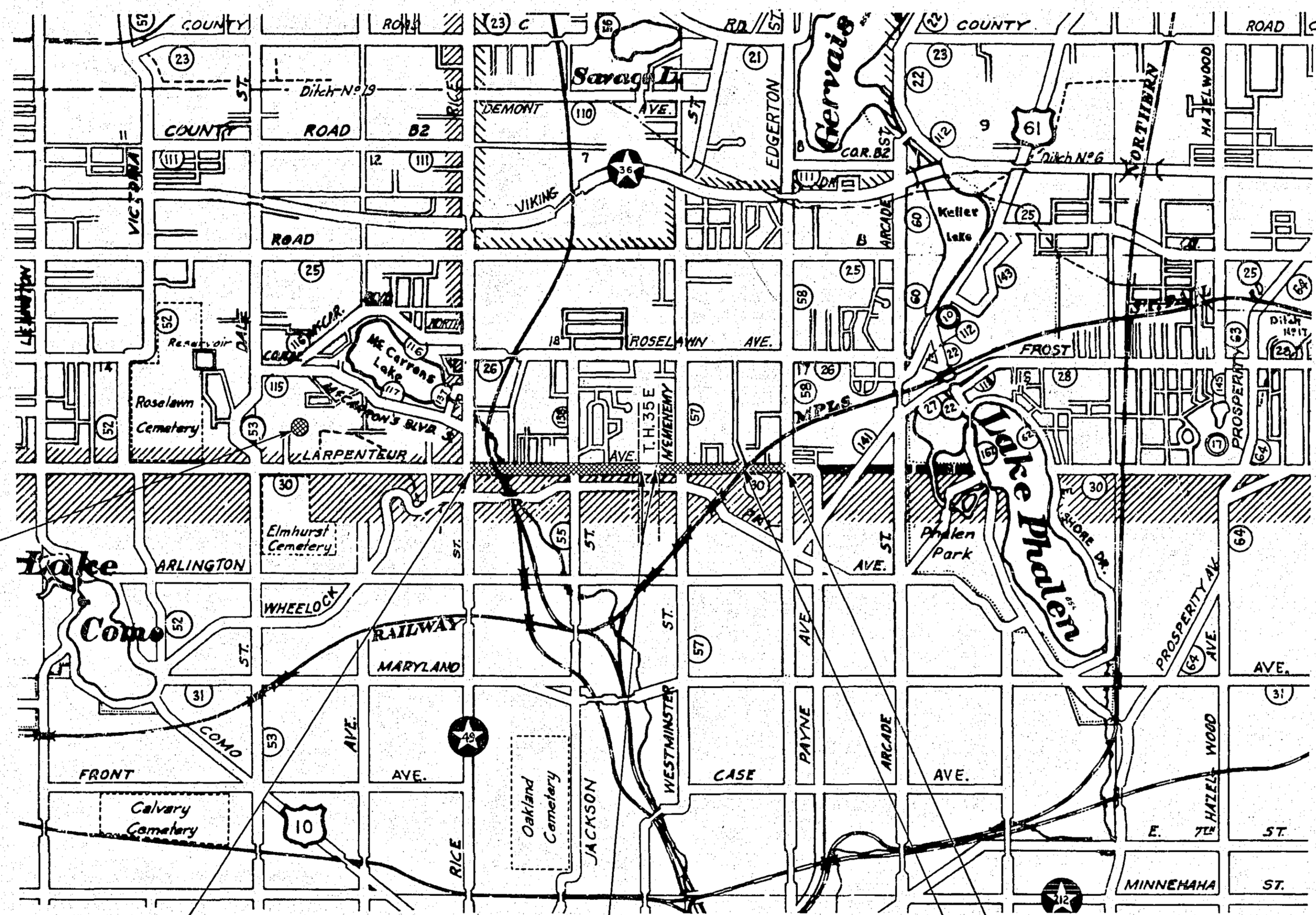
COURT APPOINTED COMMISSIONERS AWARDS INCLUDE CONSIDERATION OF THE ABOVE LISTED REVISIONS.

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CONVENTIONAL SIGNS

STATE LINE	TIMBER
COUNTY LINE	BRUSH
TOWNSHIP OR RANGE LINE	ORCHARD
SECTION LINE	ROCK LEDGE
QUARTER LINE	SAND
SIXTEENTH LINE	EDGE OF CUT
RIGHT-OF-WAY LINE	TOE OF EMBANKMENT
PRESENT ROAD "W" LINE	CATCH BASIN
LIMITED ACCESS	MANHOLE
PROPERTY LINE (Except Land Lines)	DROP INLET
VACATED PLATTED PROPERTY	FIRE HYDRANT
CORPORATE OR CITY LIMITS	ARC LAMP
TRUNK HIGHWAY CENTER LINE	OTHER LAMPS (State Kind)
RETAINING WALL	RAILROAD CROSSING SIGN
STEAM RAILROAD	RAILROAD CROSSING BELL
ELECTRIC RAILROAD	ELECTRIC WARNING SIGN
RAILROAD RIGHT-OF-WAY LINE	CROSSING GATE
CREEK	CATTLE GUARD
RAPIDS OR WATERFALL	OVERHEAD (Highway Over)
DRY RUN	UNDERPASS (Highway Under)
DRAINAGE DITCH	ABUTMENT, WALL & PIER
HIGH TENSION LINE	BRIDGE
POWER POLE LINE	CULVERT
TELEPHONE OR TELEGRAPH LINE	BUILDING (One Story Frame)
TELEPHONE CONDUIT	C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO
GUARD RAIL	HEDGE
WIRE FENCE	IRON PIPE
RAILROAD SNOW FENCE	STONE MONUMENT
BOARD OR HIGHWAY SNOW FENCE	WOOD STAKE OR HUB
STONE WALL OR FENCE	MEANDER CORNER
GAS MAIN	
WATER PIPE	
SEWER PIPE	
DRAIN TILE	
GRAVEL PIT	
SAND PIT	
CLAY PIT	
ROCK QUARRY	
SPRINGS	
MARSH	



PIT DATA

COUNTY	PIT NO.	Located in
		E. 1/2 OF S.W. 1/4 OF S.W. 1/4 OF SEC. 13, T. 29 N., R. 23 W.
		Dead Haul
	PIT NO.	Located in
		Dead Haul
	PIT NO.	Located in
		Dead Haul
	PIT NO.	Located in
		Dead Haul

BEG. OF PROJ. S.P. 62-630-03 STA. 0+00 U-083-1 (3)
 EXCEPTION (T.H. 35E-390) STA. 33+68 TO STA. 50+00
 END OF PROJ. S.P. 62-630-03 STA. 76+78 U-083-1 (3)
 EXCEPTION - BRIDGE STA. 65+05 TO STA. 66+63

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY

CONSTRUCTION PLAN FOR GRADING AND BITUMINOUS SURFACING
LARPENTEUR AVENUE
 PROJECT NO. S.P. 62-630-03 U-083-1 (3)
 FROM RICE ST. (T.H. 49) S.W. COR. SEC. 18, T. 29 N., R. 22 W. TO EDGERTON ST. (C.S.A.H. 58) SO. 1/4 COR. SEC. 17, T. 29 N., R. 22 W.

GROSS LENGTH	7678 FEET	1.454 MILES
BRIDGES-LENGTH	158 FEET	0.030 MILES
EXCEPTIONS-LENGTH	1790 FEET	0.339 MILES
NET LENGTH	5888 FEET	1.115 MILES

PLAN, 1 inch = 100 Feet
 PROFILE, Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.
 WORKING PLANS { Horiz. 1 inch = 100 Feet
 Vert. 1 inch = 10 Feet
 Cross-Sections 1 inch = 10 Feet
 LAYOUT, 1 inch = 2640 Feet

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTIONS
3	DRAINAGE STRUCTURE CHART
4,5,6	PLAN & PROFILE
7 TO 24	CROSS-SECTIONS

DESIGN SPEED 30 M.P.H.
1960 TRAFFIC COUNT 4,500 V.P.D.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Dave R. Adkins COUNTY ENGINEER REG. NO. 5091 DATE 2/6/61

RECOMMENDED FOR APPROVAL *Dave R. Adkins* COUNTY ENGINEER DATE 2/6/61
 APPROVED *Rory Lewellen* CHAIRMAN OF RAMSEY COUNTY BOARD DATE 2/1/61

MINNESOTA STATE HIGHWAY DEPARTMENT
 RECOMMENDED FOR APPROVAL *Harold* DISTRICT ENGINEER DATE
 RECOMMENDED FOR APPROVAL *J.D. McMillan* DATE 4/22/61
 APPROVED *J.D. McMillan* STATE AID ENGINEER

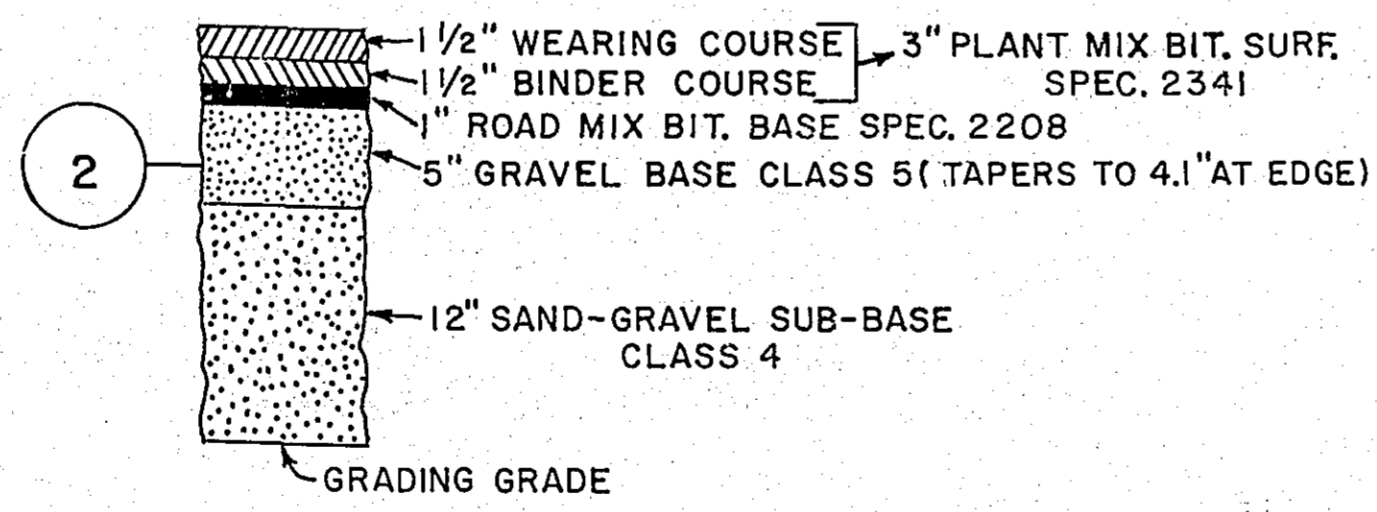
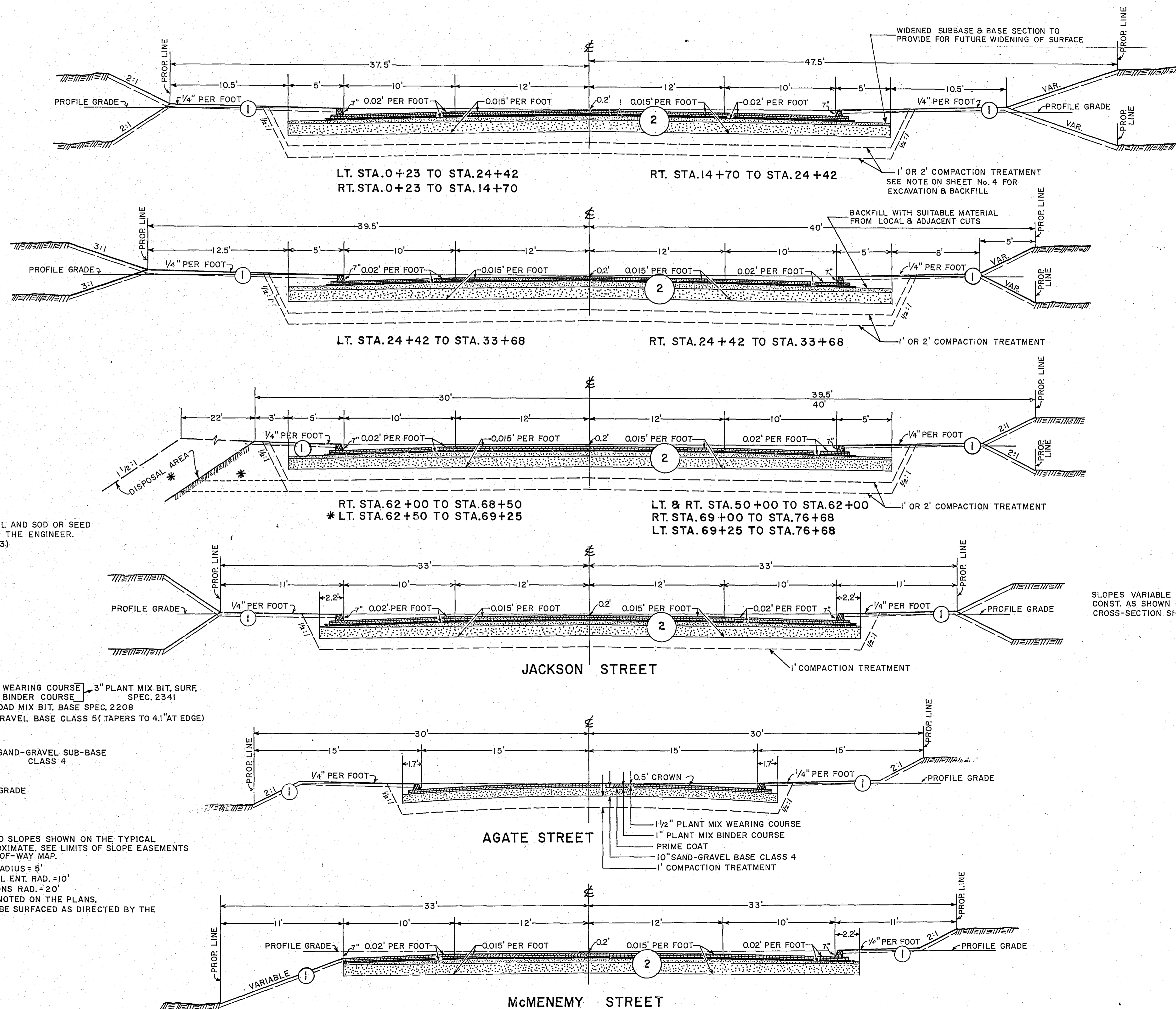
—SPECIFICATIONS—
 THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 26, 1959 SHALL GOVERN.

24 sheets for letting

ESTIMATED QUANTITIES			
SPEC. NO.	DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES
2101.502	CLEARING	TREE	67
2101.507	GRUBBING	TREE	60
2104.510	REMOVE FENCE	LINEAR FOOT	500
2104.504	REMOVE CURB (CONCRETE)	LINEAR FOOT	32
2104.511	REMOVE CATCH BASINS	STRUCTURE	4
2104.515	REMOVE PIPE SEWERS	LINEAR FOOT	176
2105.501	CLASS "A" EXCAVATION	CUBIC YARD	52,875
2116.513-8	PERFORATED C.M. PIPE - 8"	LINEAR FOOT	306
2201.527	GRAVEL SUB-BASE IN PLACE - CLASS 4	C.Y.(V.M.)	16,370
2202.527	GRAVEL BASE IN PLACE - CLASS 5	C.Y.(V.M.)	6,900
2130.501	WATER (DUST PREVENTATIVE ONLY, TO BE USED AS DIRECTED BY THE ENGINEER.)	(M) GALLON	20
2208.501	BITUMINOUS MATERIAL FOR PRIME COAT	GALLON	10,668
2208.503	BITUMINOUS MATERIAL FOR MIXTURE	GALLON	21,336
2208.507	AGGREGATE	C.Y.(V.M.)	1,135
2341.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	3,200
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	295
2341.511	BITUMINOUS MIXTURE (BINDER COURSE)	TON	2,825
2341.511	BITUMINOUS MIXTURE (WEARING COURSE)	TON	3,080
2341.505	BITUMINOUS MATERIAL FOR FOG SEAL COAT	GALLON	100
2341.531	AGGREGATE FOR FOG SEAL COAT	C.Y.(V.M.)	7
2501.511-18	F & I C.M. PIPE CULVERTS, 18"	LINEAR FOOT	48
2501.511-24	F & I C.M. PIPE CULVERTS, 24"	LINEAR FOOT	28
2501.511-36	F & I C.M. PIPE CULVERTS, 36"	LINEAR FOOT	28
2503.512-12	F & I R.C. PIPE SEWER - CLASS 2	LINEAR FOOT	72
2503.512-15	F & I R.C. PIPE SEWER - CLASS 2	LINEAR FOOT	8
2503.512-18	F & I R.C. PIPE SEWER - CLASS 2	LINEAR FOOT	42
2503.512-18	F & I R.C. PIPE SEWER - CLASS 3	LINEAR FOOT	200
2503.512-24	F & I R.C. PIPE SEWER - CLASS 2	LINEAR FOOT	210
2501.521-36	F & I S.C. PIPE CULVERTS - CLASS 2	LINEAR FOOT	4
2506.507	CONSTRUCT CATCH BASINS, TYPE G	LINEAR FOOT	42.2
2506.507	CONSTRUCT CATCH BASINS, TYPE H	LINEAR FOOT	9.0
2506.511	RECONSTRUCT MANHOLES	LINEAR FOOT	40.6
2506.516	F & I CASTING ASSEMBLIES - TYPE G AND H	ASSEMBLY	10
2506.521	INSTALL CASTINGS	ASSEMBLY	11
2506.522	ADJUST FRAME RING AND CASTING	ASSEMBLY	23
2515.531	F & I METAL APRONS FOR C.M. PIPE CULVERTS, 18"	APRON	1
2501.536	INSTALL S.C. PIPE CULVERT	LINEAR FOOT	20
2503.521	INSTALL CONCRETE PIPE SEWER	LINEAR FOOT	64
2521.501	CONCRETE WALK - 4" THICK	SQUARE FOOT	86
2531.502	CONCRETE CURB, DESIGN B-6	LINEAR FOOT	150
2535.501	BITUMINOUS CURB	LINEAR FOOT	11,782
2574.501	ROADSIDE SEEDING	ACRE	30
2574.511	SEED (CLASS 15)	POUND	360
2576.501	SODDING	SQUARE YARD	11,900
557.621	RESET FENCE (WOVEN WIRE, 4' HIGH, WOOD POSTS)	LINEAR FOOT	250

STANDARD DETAIL PLATES	
3000 B	REINFORCED CONCRETE PIPE
3123 A	METAL APRON FOR C.M. PIPE
4006 C	CATCH BASIN
4007 A	CATCH BASIN
4101 B	RING CASTING FOR MANHOLE OR CATCH BASIN
4126 B	CATCH BASIN FRAME CASTING
4149 B	GRATE CASTING FOR CATCH BASIN
4161 C	CURB BOX CASTING FOR CATCH BASIN
4163 B	CURB PLATE CASTING FOR CATCH BASIN
4164 A	COVER AND FRAME CASTING FOR CATCH BASIN
4180 D	MANHOLE STEP CASTING
7020 C	CONCRETE CURB (DESIGN B)
7065 B	BITUMINOUS CURB
8003	WARNING SIGNS
9102 A	SODDING AT PIPE CULVERT ENDS

TYPICAL SECTIONS



ALL DIMENSIONS AND SLOPES SHOWN ON THE TYPICAL SECTIONS ARE APPROXIMATE. SEE LIMITS OF SLOPE EASEMENTS AS SHOWN ON RIGHT-OF-WAY MAP.
PRIVATE ENTRANCE RAD. = 5'
ALLEY & COMMERCIAL ENT. RAD. = 10'
STREET INTERSECTIONS RAD. = 20'
UNLESS OTHERWISE NOTED ON THE PLANS, APPROACHES SHALL BE SURFACED AS DIRECTED BY THE ENGINEER.

STA. 2+87 LT. 27' TO STA. 5+87 LT. 27'
 F & I. 8" x 300' PERF. C.M.P. DRAIN
 STA. 5+87 LT. 27' TO LT. 21'
 F & I. 8" x 6' PERF. C.M.P. DRAIN & ELBOW

STA. 5+93 INPLACE RT. 56.5' TO LT. 47.5'
 36" x 104' C.M.P. & R.C.P. - O.K. LEAVE
 F & I. RT. 56.5' TO RT. 60.5'
 36" x 4' S.C.P. CULVERT
 F & I. LT. 47.5' TO LT. 59.5'
 36" x 12' C.M.P. CULVERT - 1 BAND

STA. 5+97 INPLACE RT. 56.5' TO LT. 47.5'
 36" x 104' C.M.P. & R.C.P. - O.K. LEAVE
 F & I. LT. 47.5' TO LT. 59.5'
 36" x 12' C.M.P. CULVERT - 1 BAND
 F & I. RT. 56.5' TO RT. 60.5'
 36" x 4' C.M.P. CULVERT - 1 BAND

NOTE TO SURVEY CREW:
 PERPETUATE WATER DEPT. MONUMENT
 STATION 11+68 LT. 13.5'

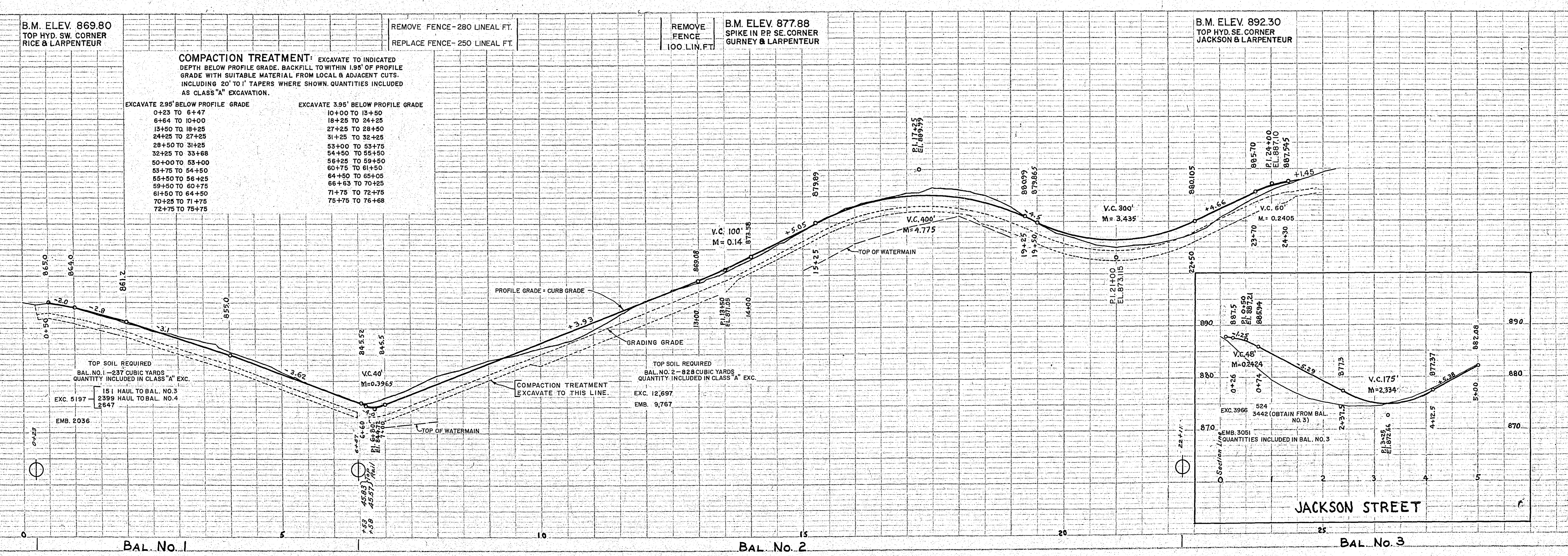
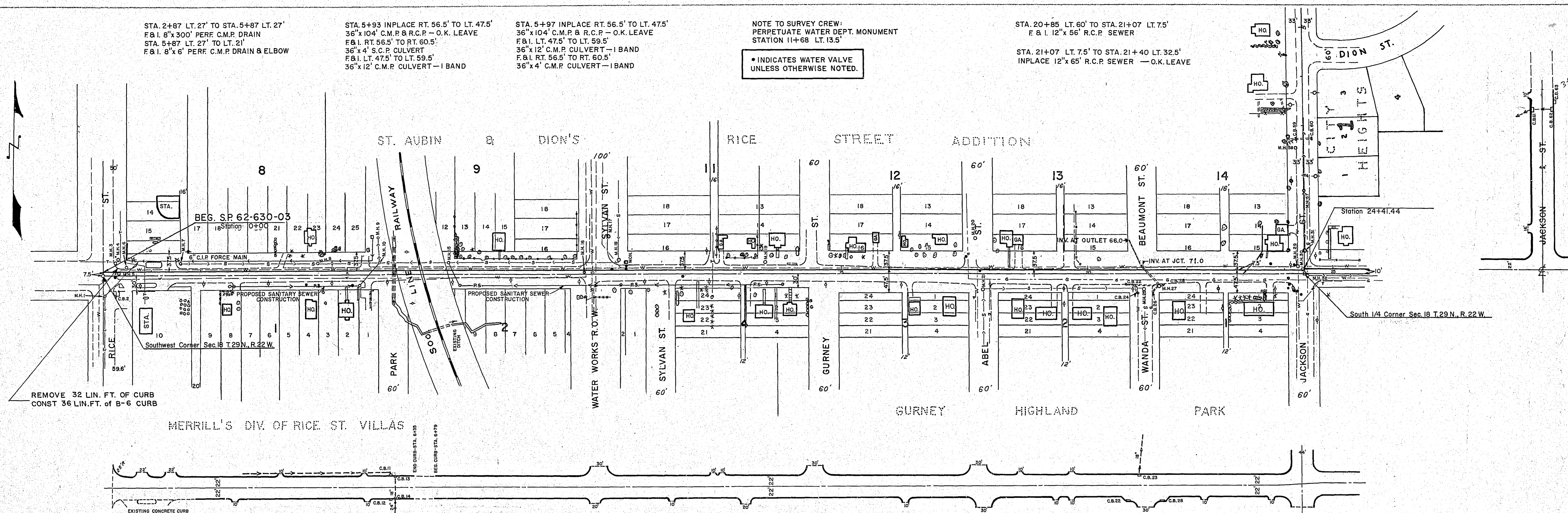
• INDICATES WATER VALVE
 UNLESS OTHERWISE NOTED.

STA. 20+85 LT. 60' TO STA. 21+07 LT. 7.5'
 F & I. 12" x 56" R.C.P. SEWER

STA. 21+07 LT. 7.5' TO STA. 21+40 LT. 32.5'
 INPLACE 12" x 65" R.C.P. SEWER - O.K. LEAVE

PLAN
 CHECKED
 NOTE: ROAD ALIGNMENT CHECKED
 NO. 1

PROFILE
 CHECKED
 NOTE: GRADES CHECKED
 NO. 1



DATE	
BY	
CHECKED	
NO. OF WAY CHECKED	
ALIGNED CHECKED	
NOTE BOOK	
PLAN	

DATE	
BY	
CHECKED	
NO. OF WAY CHECKED	
ALIGNED CHECKED	
NOTE BOOK	
PROFILE	

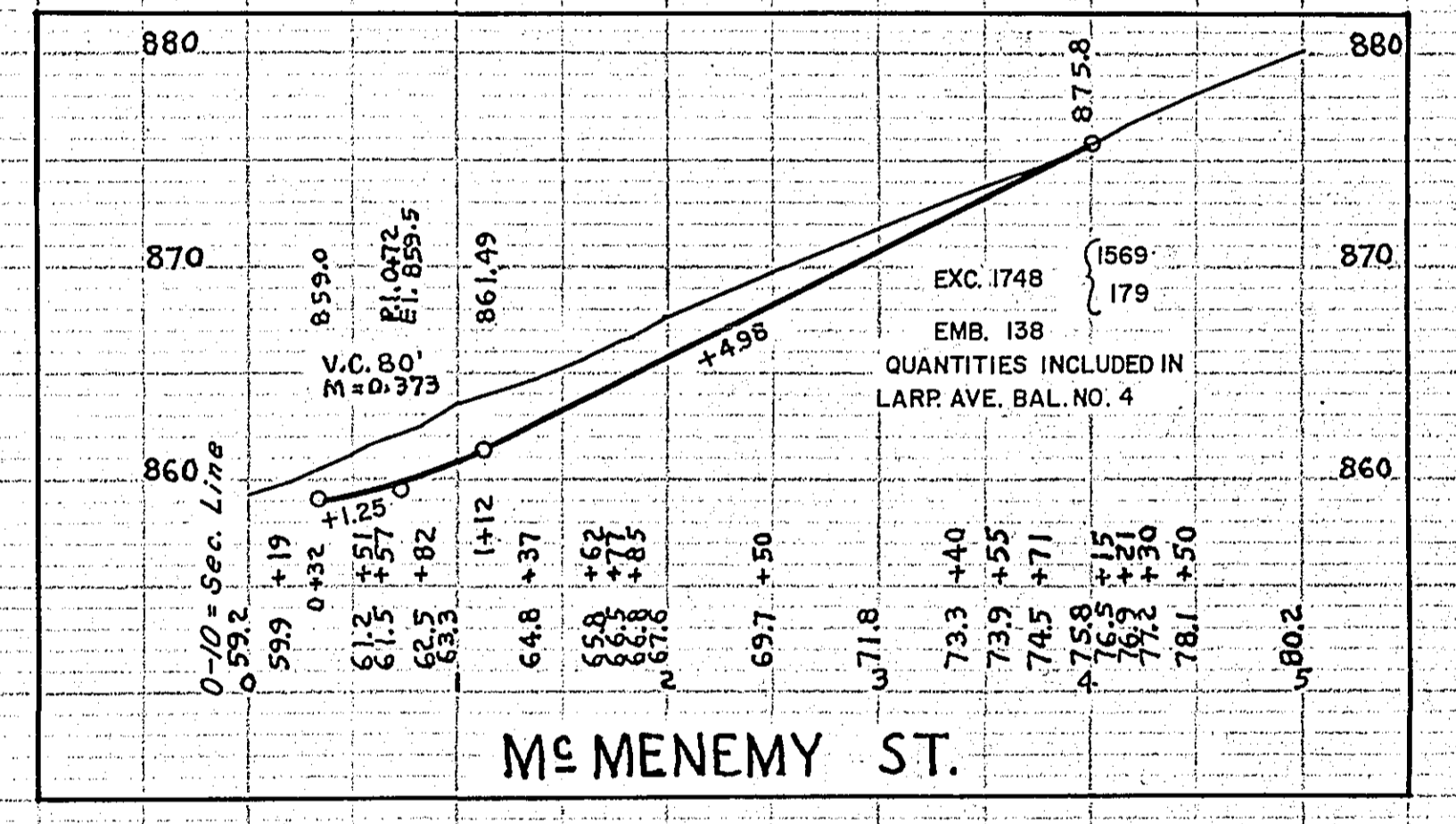
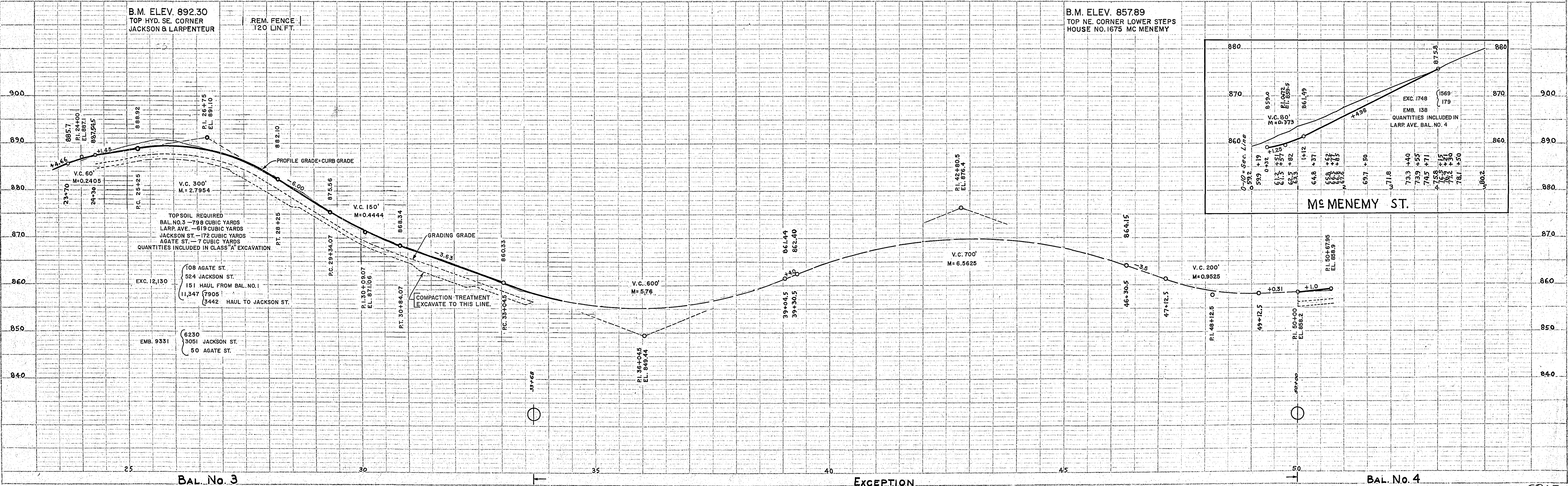
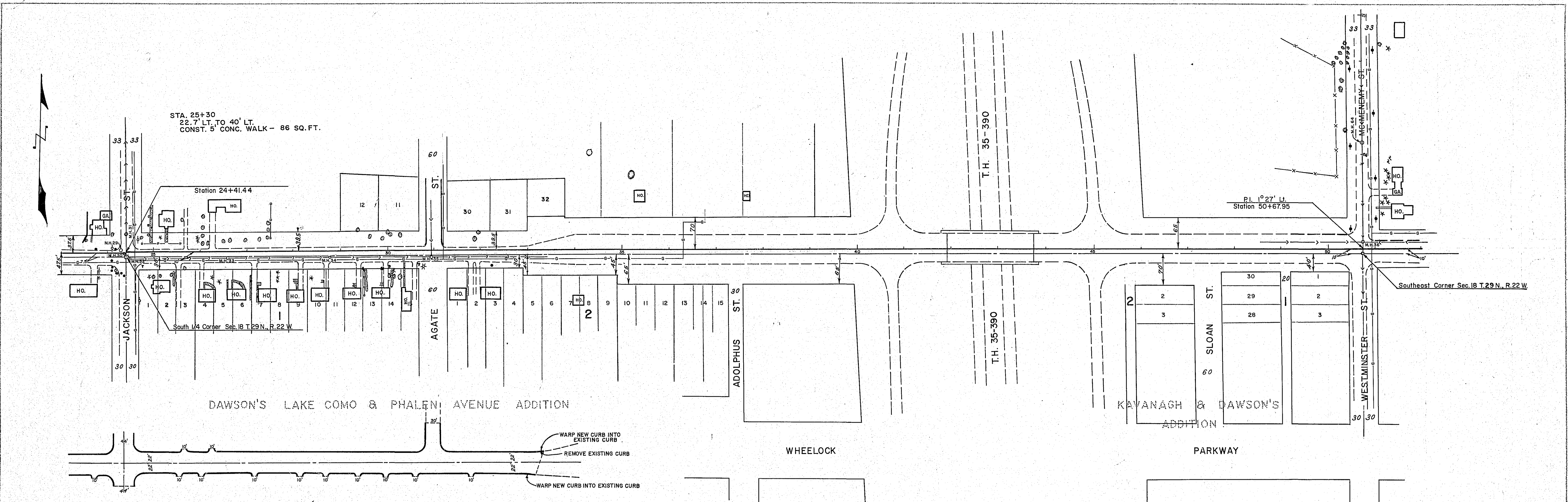


PLATE 1 - PLAN - PROFILE - C. P. & P. E. STANDARD
L. H. & S. P. CO., NEW YORK
N. Y. E. D. NO. 338-10A

STA. 53+69 LT. 29' TO RT. 30'
INPLACE 18" X 58' R.C.P. SEWER
O.K. LEAVE

STA. 57+08 RT. 60' TO STA. 57+58 RT. 16'
INPLACE 18" X 78' S.C.P. CULVERT - REMOVE

STA. 64+06 LT. 99' TO STA. 64+20 LT. 85'
INSTALL 18" X 20' S.C.P. CULVERT
OBTAIN FROM STA. 57+50

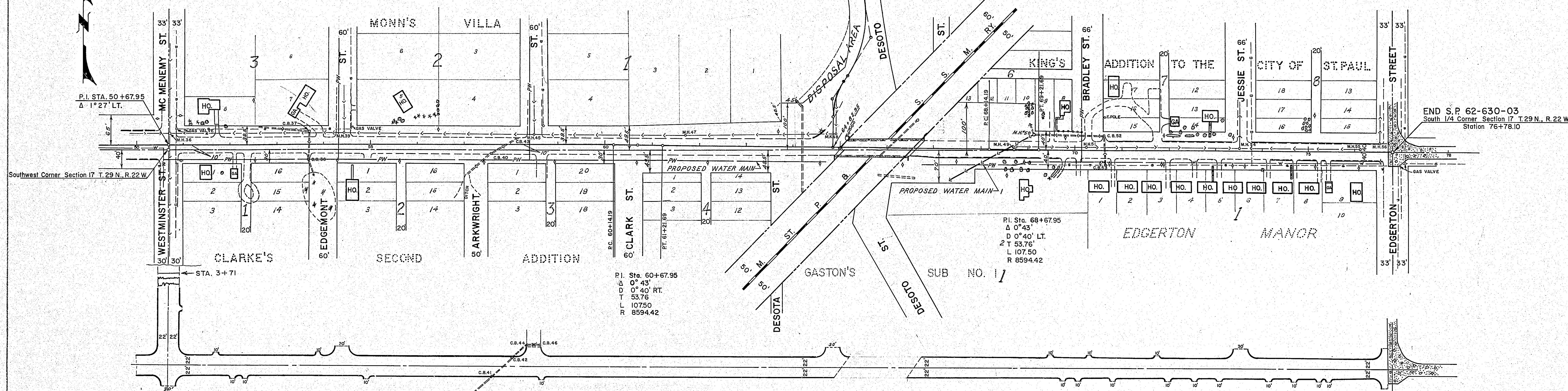
STA. 70+63 LT. 31' TO STA. 70+68 RT. 31'
INPLACE 15" X 64' R.C.P. SEWER
O.K. LEAVE

STA. 57+58 RT. 16'
INPLACE C.B. - REMOVE

STA. 57+58 RT. 16' TO STA. 58+16 LT. 16'
INPLACE 15" X 66' C.M.P. CULVERT - REMOVE

STA. 58+16 LT. 16'
INPLACE C.B. - REMOVE

STA. 64+20 RT. 95' TO LT. 85'
INP 18" X 180' S.C.P. CULVERT - O.K. LEAVE



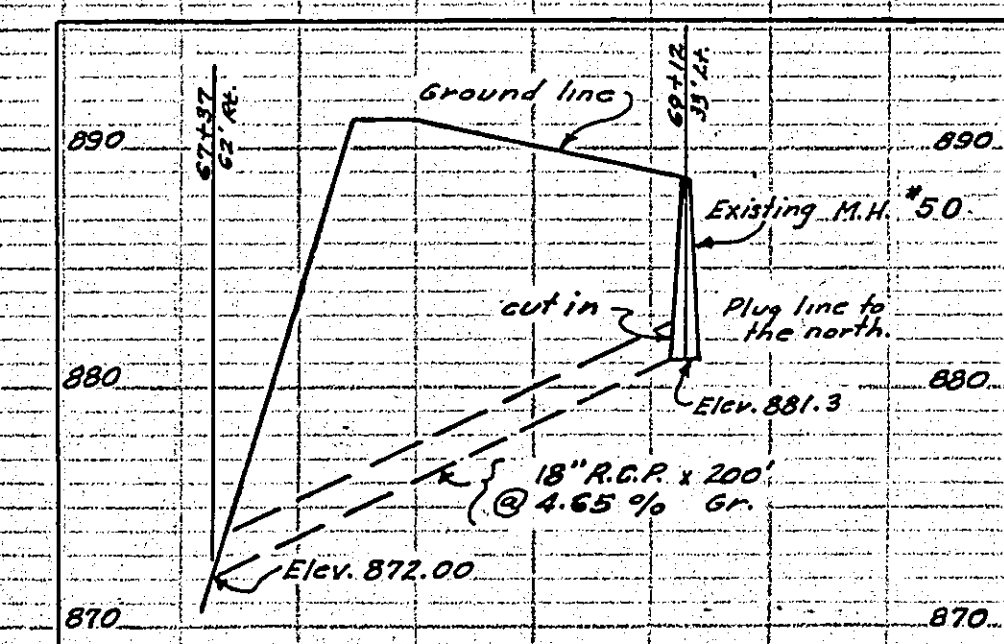
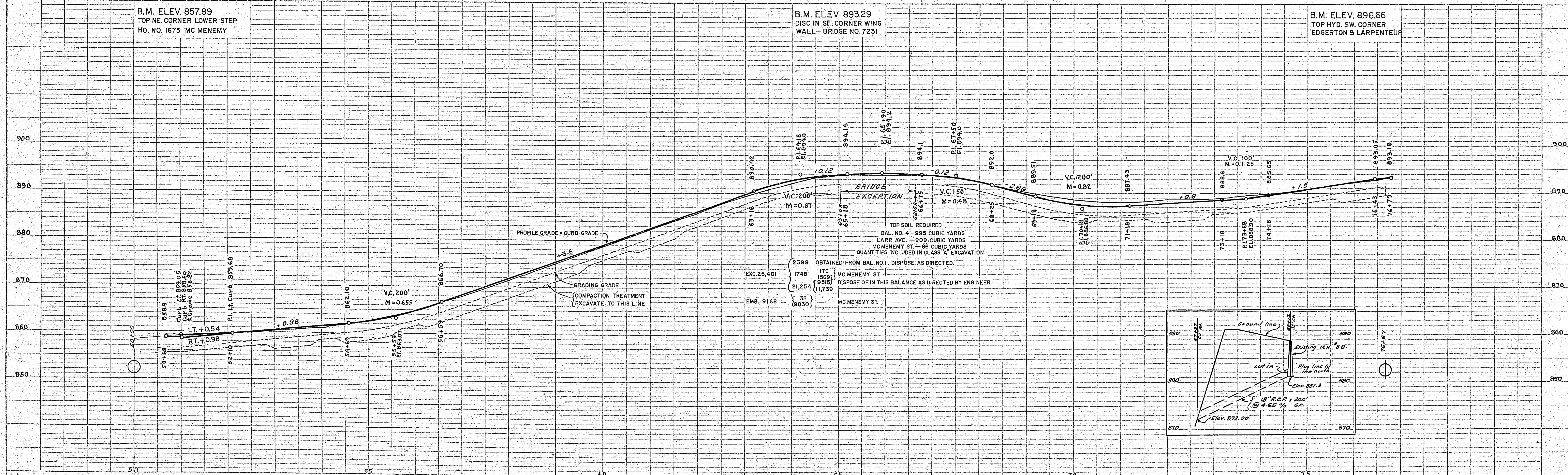
P.I. Sta. 60+67.95
D 0° 43'
T 53.76
L 107.50
R 8594.42

P.I. Sta. 68+67.95
D 0° 43'
T 53.76
L 107.50
R 8594.42

B.M. ELEV. 857.89
TOP NE. CORNER LOWER STEP
HO. NO. 1675 MC MENEMY

B.M. ELEV. 893.29
DISC IN SE. CORNER WING
WALL - BRIDGE NO. 7231

B.M. ELEV. 896.66
TOP HYD. SW. CORNER
EDGERTON & LARPEUR



BAL. No. 4

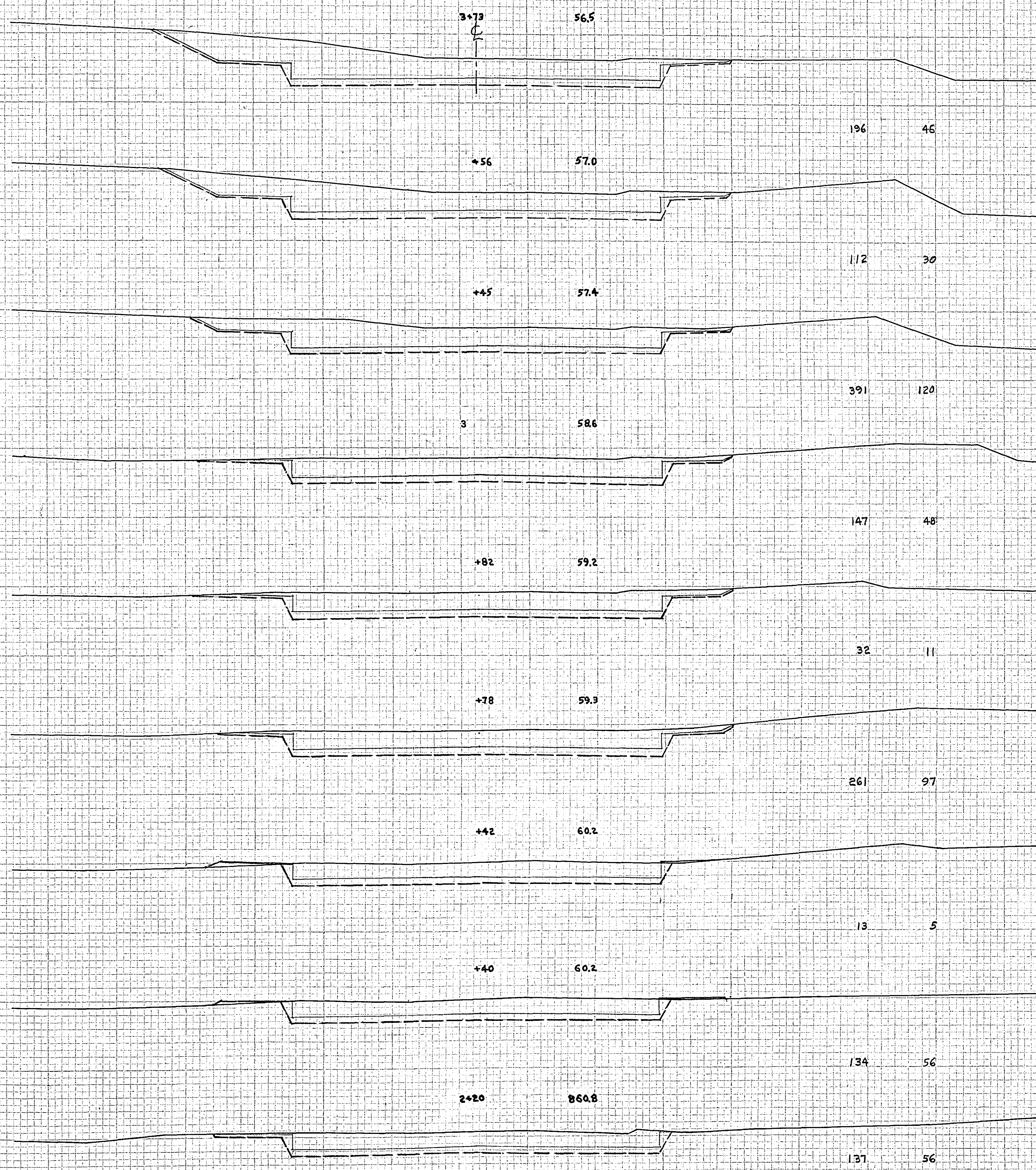
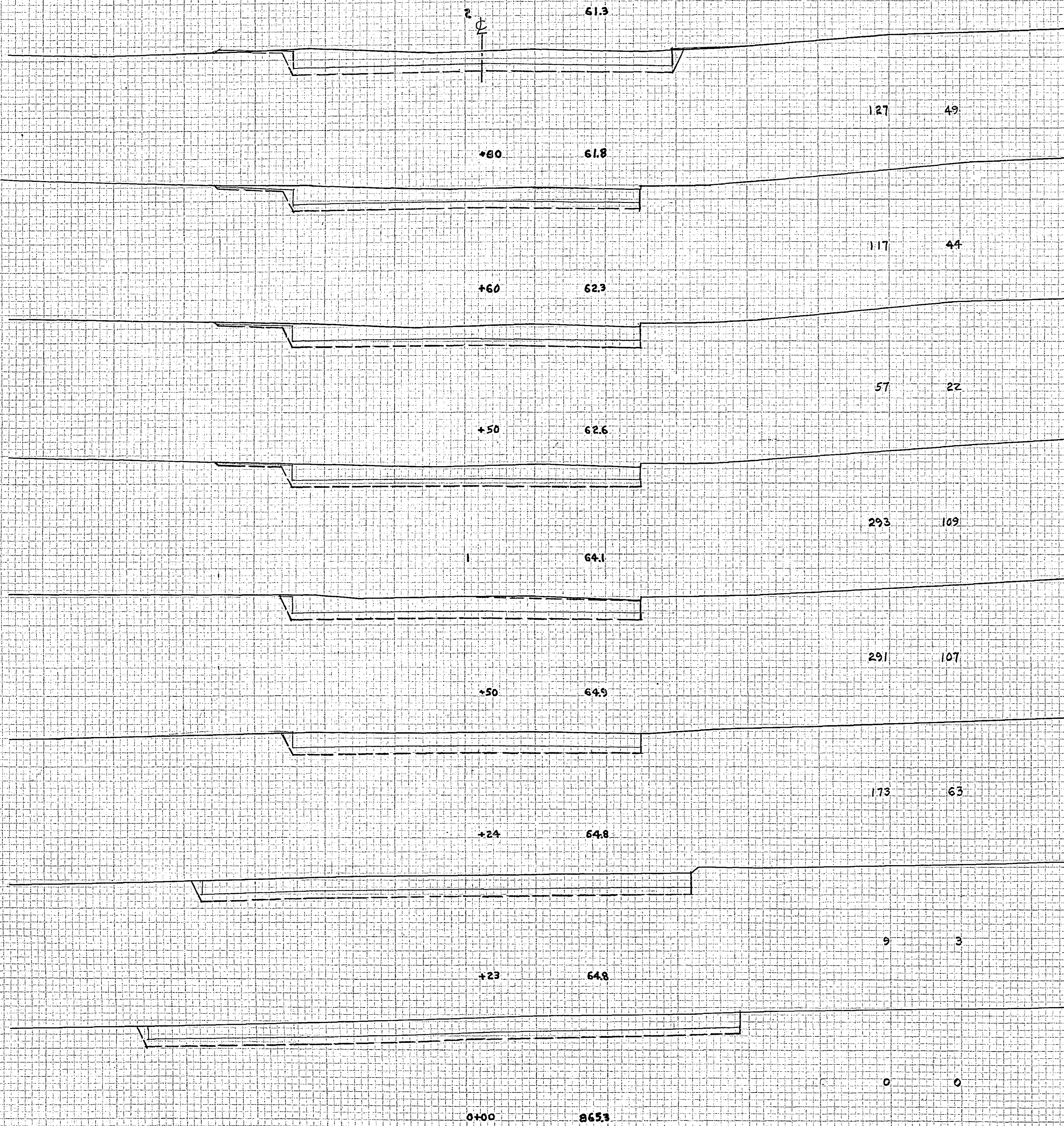
STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

1" = 10' HORIZONTAL
1" = 10' VERTICAL
KENTLEY & EBBEN CO. NEW YORK
TYPE 3 CROSS SECTION 0' 8" WIDE EMBANKMENT

STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS



CROSS SECTIONS

SCALE 1" = 10'

NO. OF SHEETS
SHEET NO.
DATE
BY
CHECKED BY
APPROVED BY

NO. OF SHEETS
SHEET NO.
DATE
BY
CHECKED BY
APPROVED BY

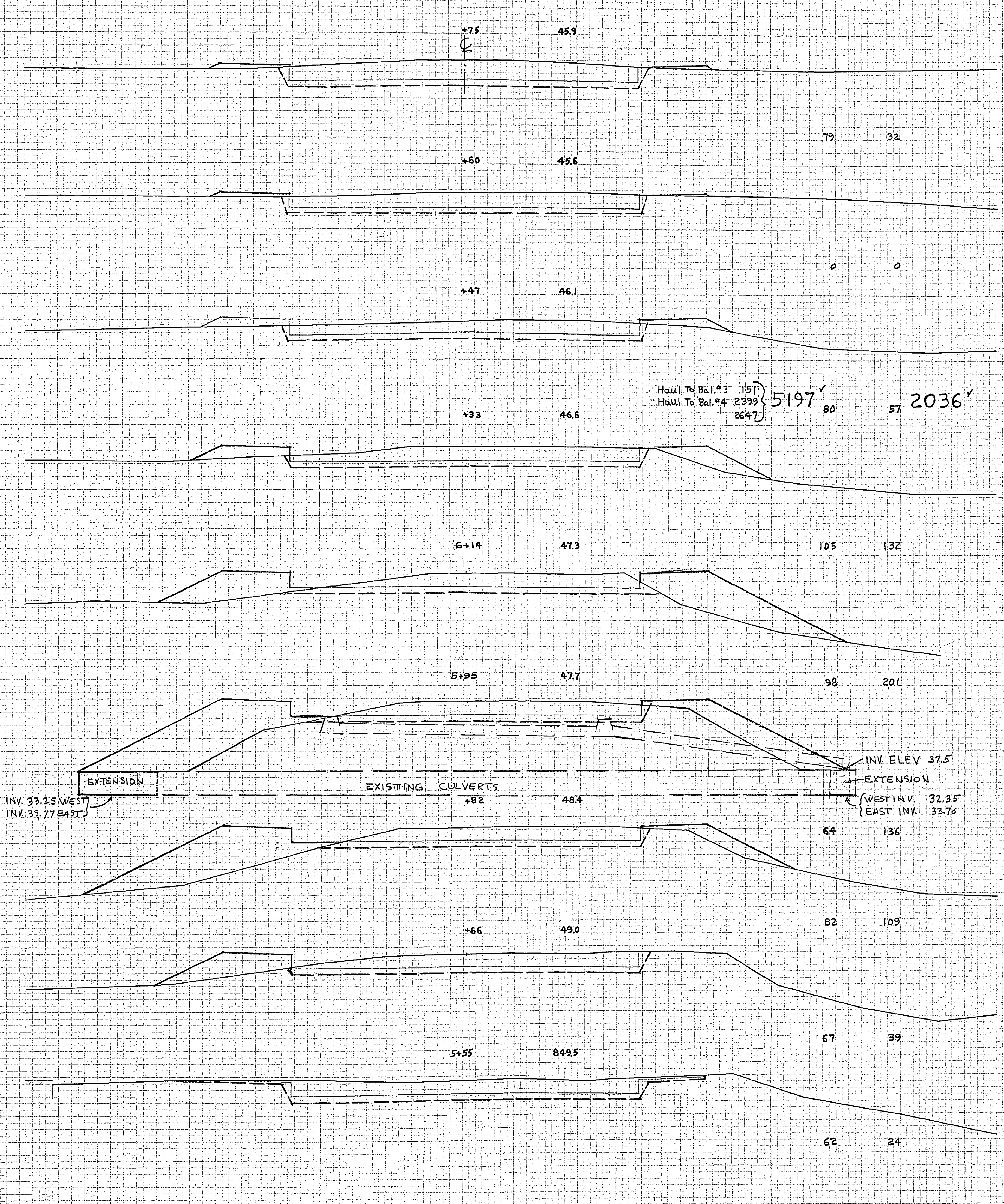
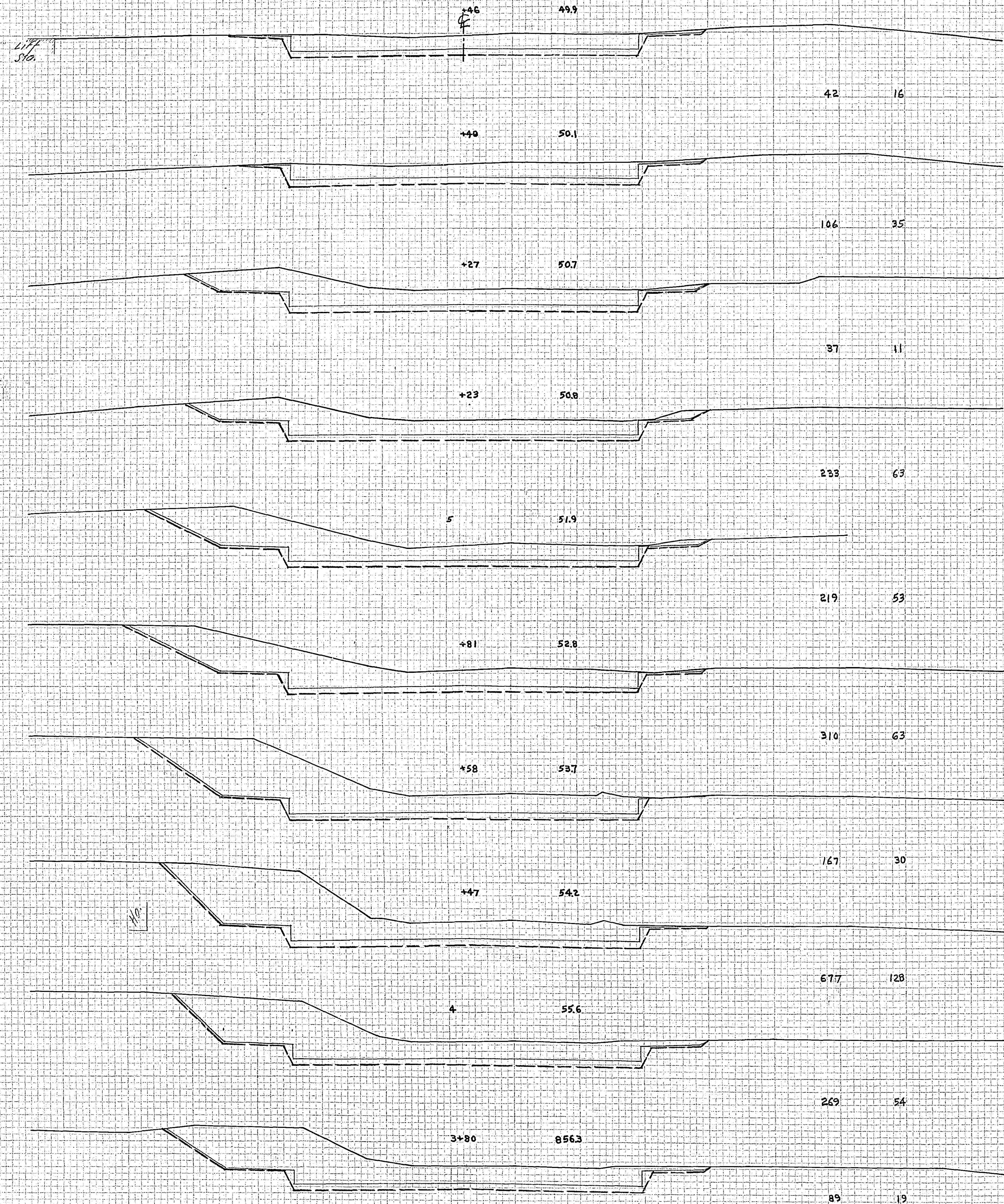
STATION-ELEVATION

EXCAVATION / EMBANKMENT
SUB-TOTALS - CU. YDS. - CU. YDS. - SUB-TOTALS

K. B. & CO. 407 3rd St. NEW YORK, N.Y.
KINGLE & EBBEN 507 1/2 1st Ave. NEW YORK, N.Y.
BY THE 3-CROSS SECTION OF B. & O. R. R. EMBANKMENT

STATION-ELEVATION

EXCAVATION / EMBANKMENT
SUB-TOTALS - CU. YDS. - CU. YDS. - SUB-TOTALS



DATE: 1/17/50
BY: J. H. BROWN
CHECKED: J. H. BROWN

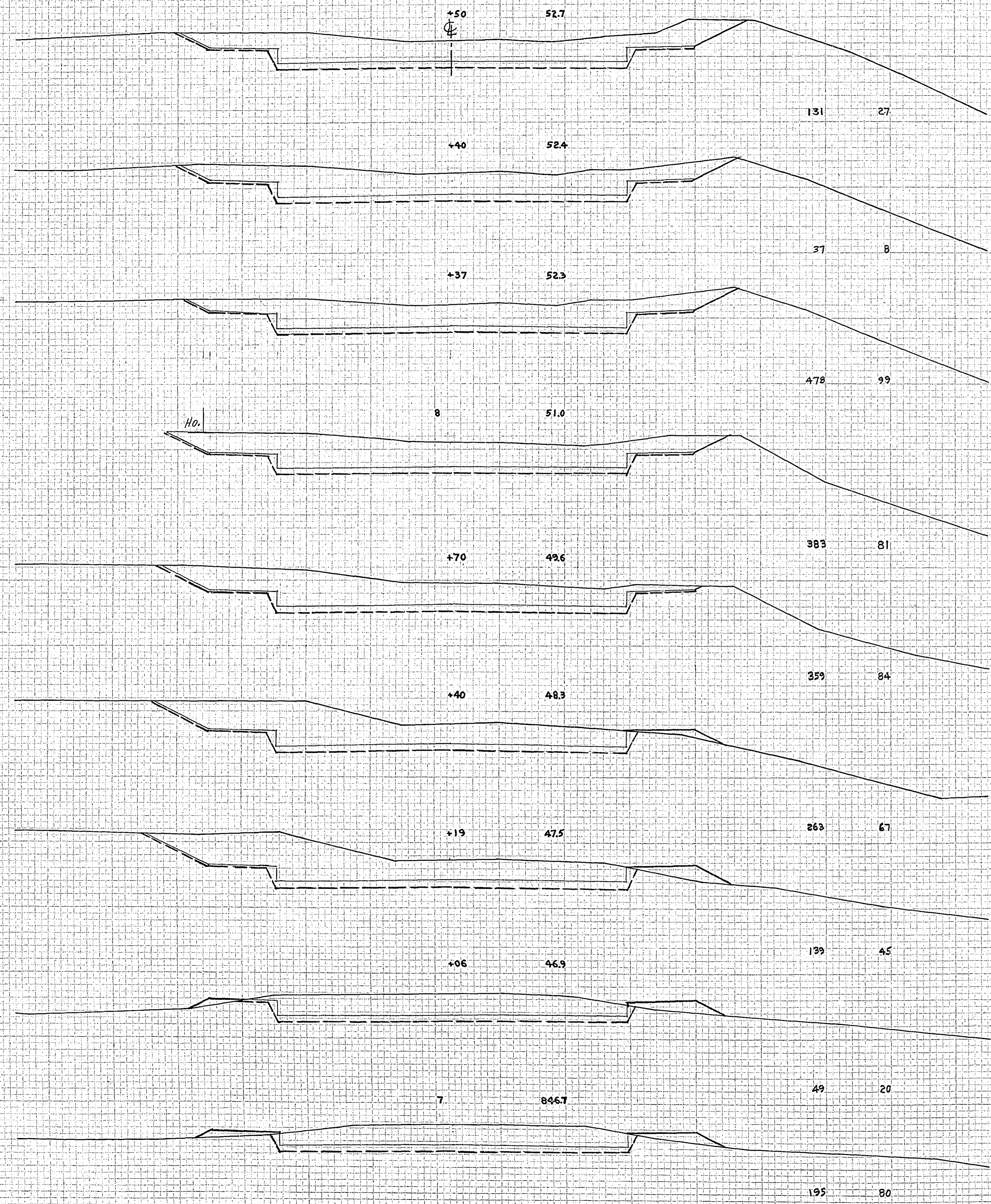
DATE: 1/17/50
BY: J. H. BROWN
CHECKED: J. H. BROWN

CROSS SECTIONS SCALE 1" = 10'

50

STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB-TOTALS - CU. YDS. | CU. YDS. | SUB-TOTALS



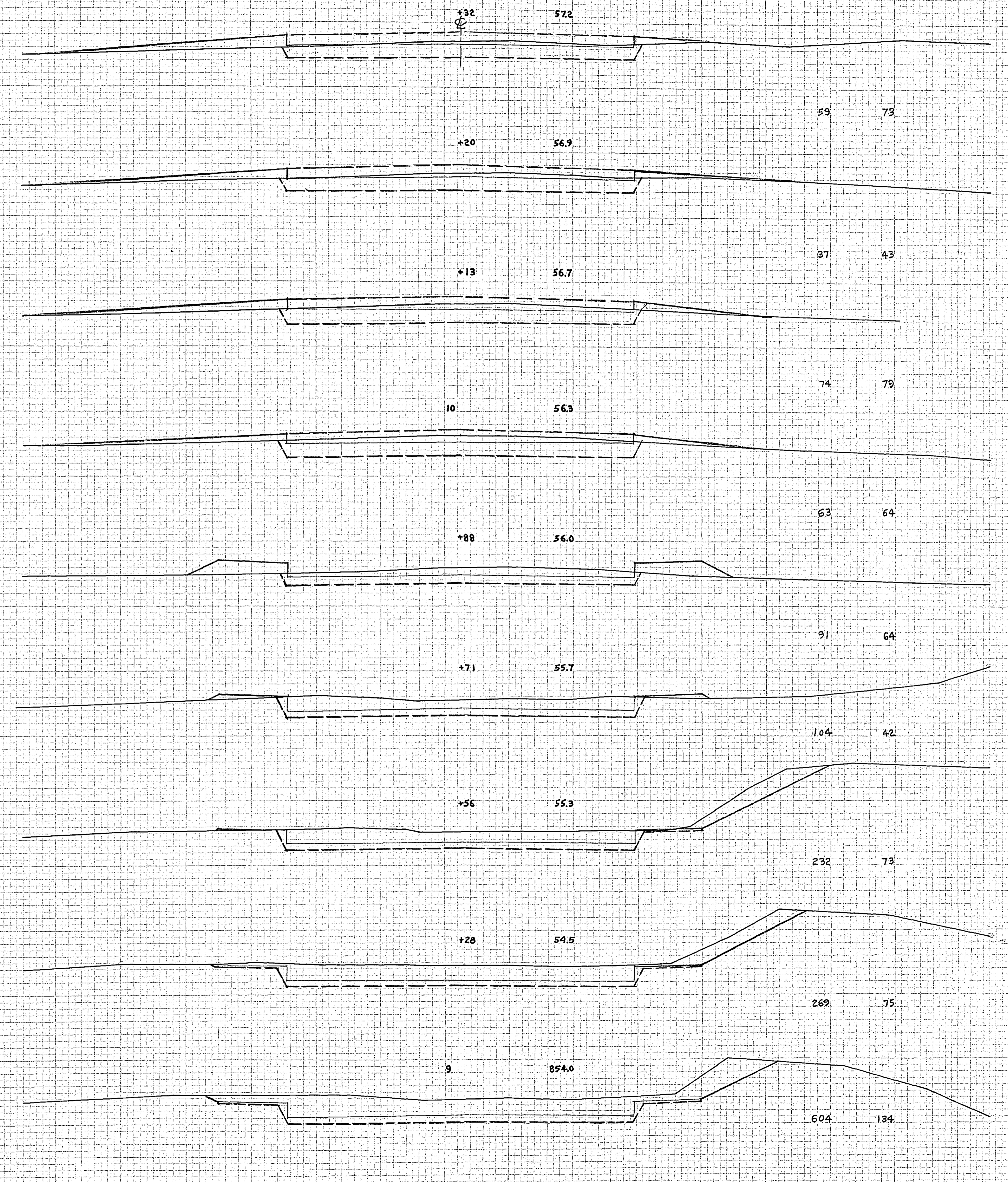
NO. 1
DATE
BY
CHECKED
APPROVED

NO. 2
DATE
BY
CHECKED
APPROVED

51

STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB-TOTALS - CU. YDS. | CU. YDS. | SUB-TOTALS



CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION / EMBANKMENT

SUB-TOTALS - CU. YDS. - CU. YDS. - SUB-TOTALS

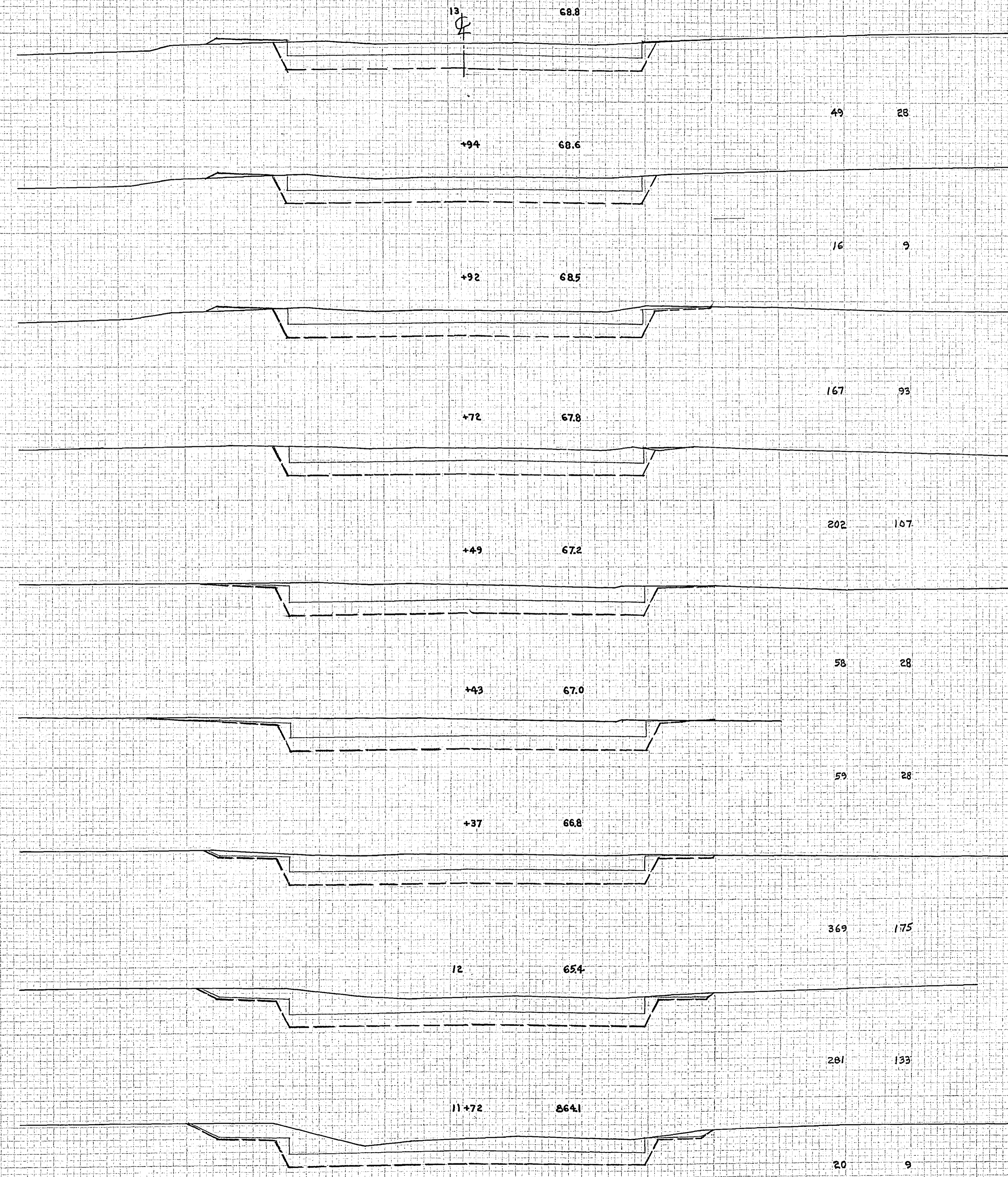
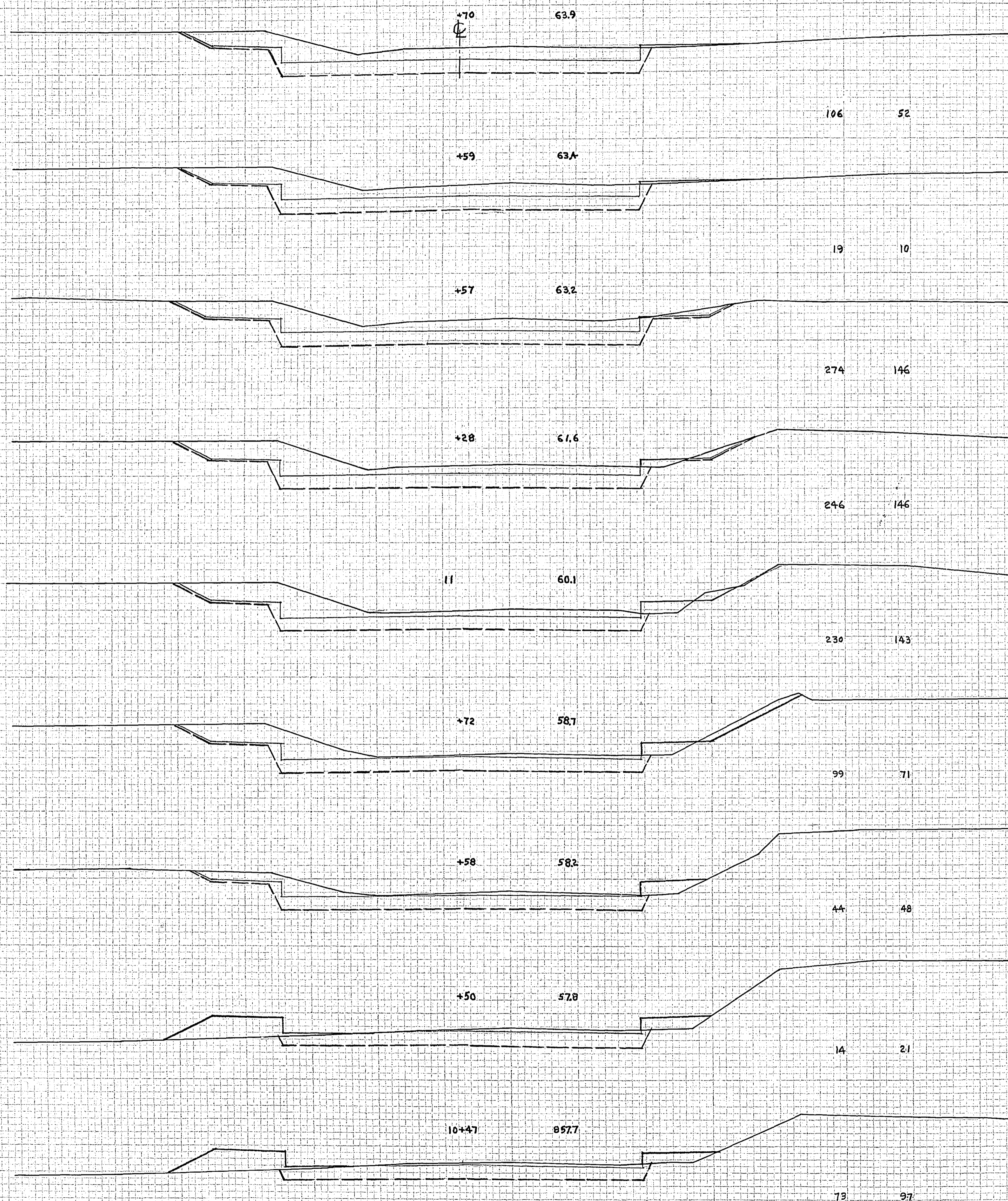
STATION-ELEVATION

EXCAVATION / EMBANKMENT

SUB-TOTALS - CU. YDS. - CU. YDS. - SUB-TOTALS

NO. 10
 SCALE 1" = 10'
 DATE
 DRAWN BY
 CHECKED BY

NO. 10
 SCALE 1" = 10'
 DATE
 DRAWN BY
 CHECKED BY



CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION | EMBANKMENT

SUB-TOTALS - CU - YDS. - CU - YDS. - SUB-TOTALS

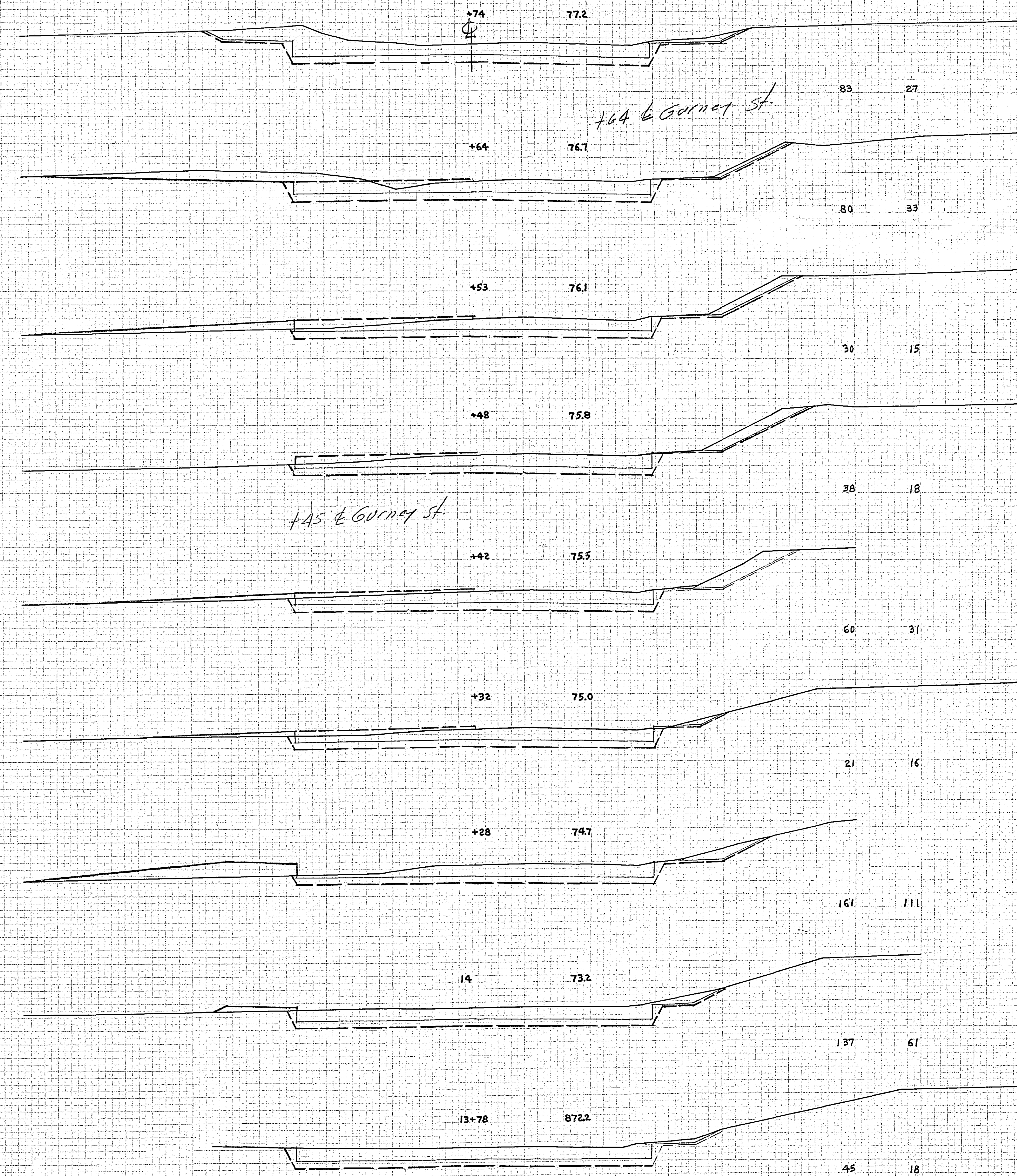
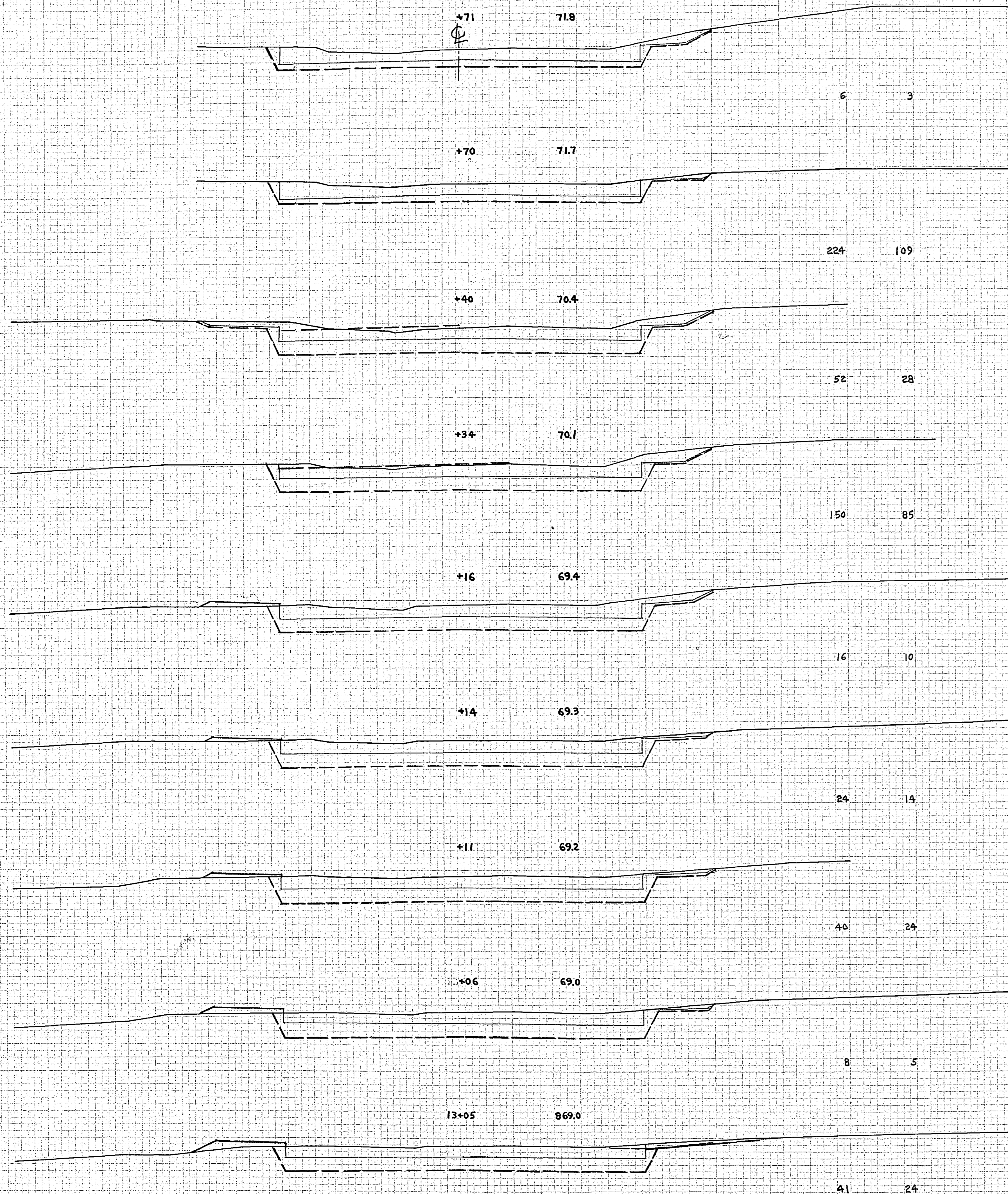
STATION-ELEVATION

EXCAVATION | EMBANKMENT

SUB-TOTALS - CU - YDS. - CU - YDS. - SUB-TOTALS

JANUARY 1962
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
SAN FRANCISCO DISTRICT
SAN FRANCISCO OFFICE
PROJECT NO. 62-630-03
SHEET NO. 11 OF 24 SHEETS

JANUARY 1962
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
SAN FRANCISCO DISTRICT
SAN FRANCISCO OFFICE
PROJECT NO. 62-630-03
SHEET NO. 11 OF 24 SHEETS



+64 & Gurney St.

+45 & Gurney St.

CROSS SECTIONS SCALE 1" = 10'

50

STATION-ELEVATION

EXCAVATION / EMBANKMENT
SUB TOTALS - CU. YDS. / CU. YDS. / SUB-TOTALS

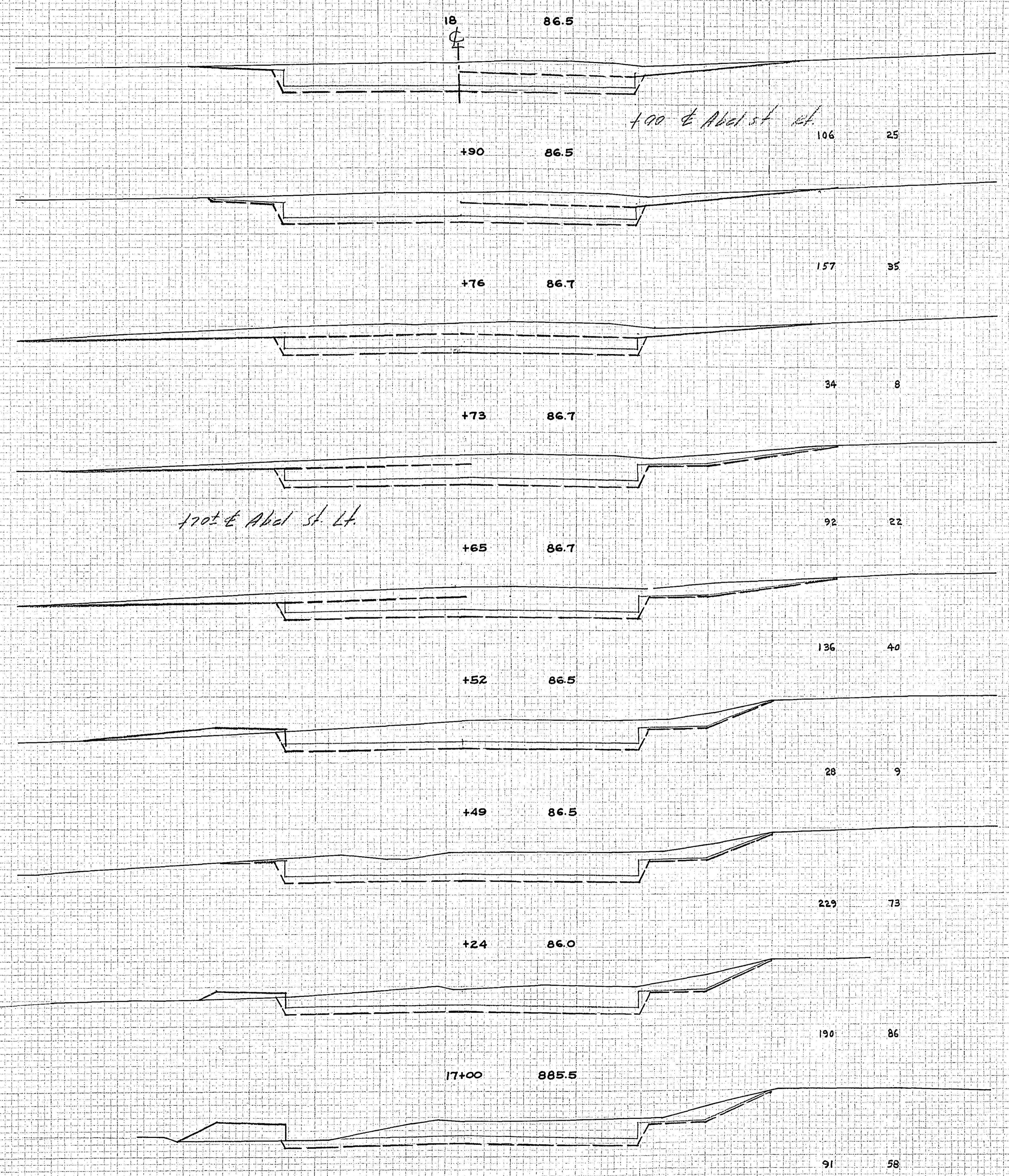
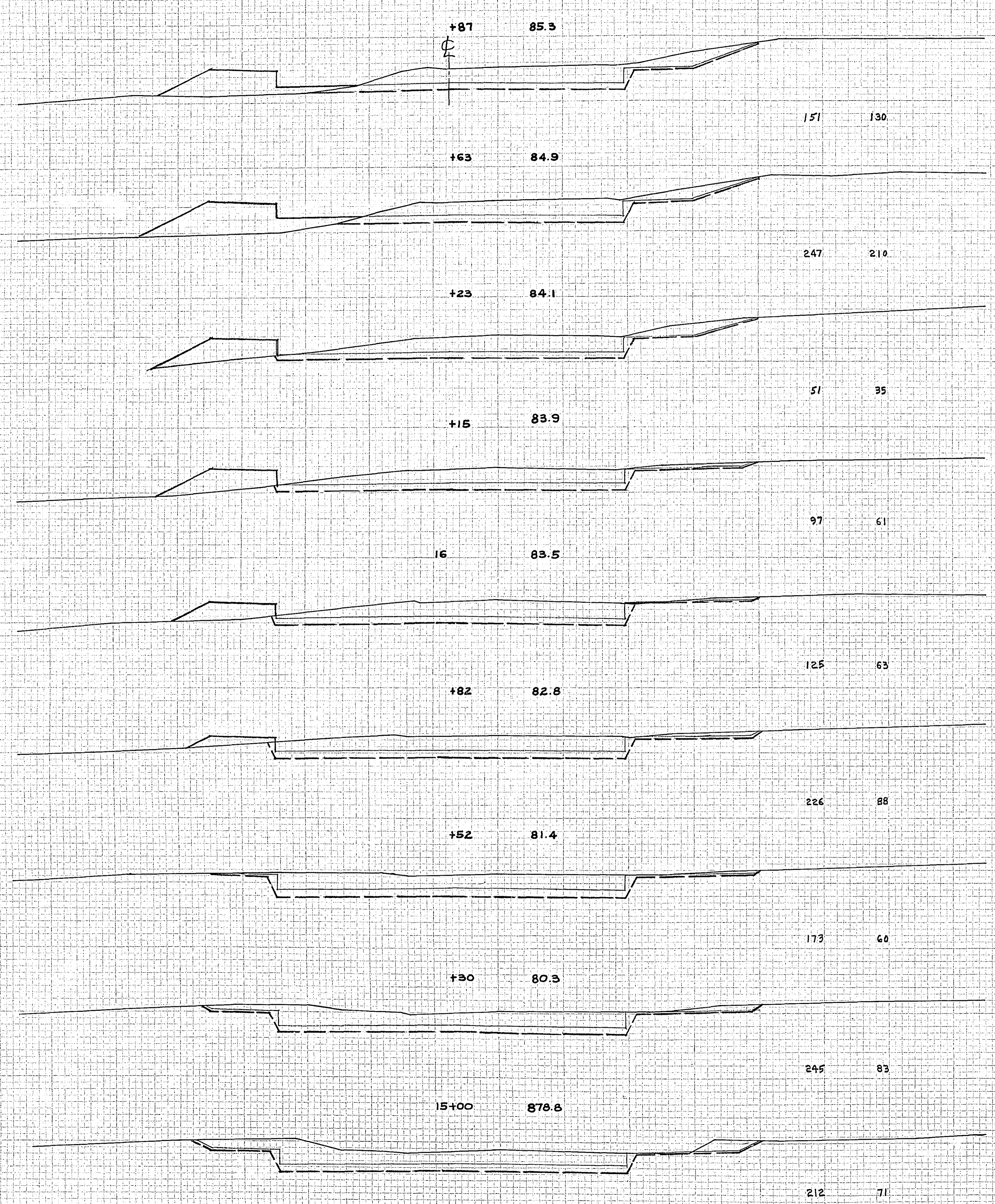
SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION / EMBANKMENT
SUB TOTALS - CU. YDS. / CU. YDS. / SUB-TOTALS

NO. OF
STAKES
ORIGIN

NO. OF
STAKES
ORIGIN



100' @ Abel st. int.

170' @ Abel st. Lt.

CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB-TOTALS - CU. YDS. | CU. YDS. - SUB-TOTALS

STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB-TOTALS - CU. YDS. | CU. YDS. - SUB-TOTALS

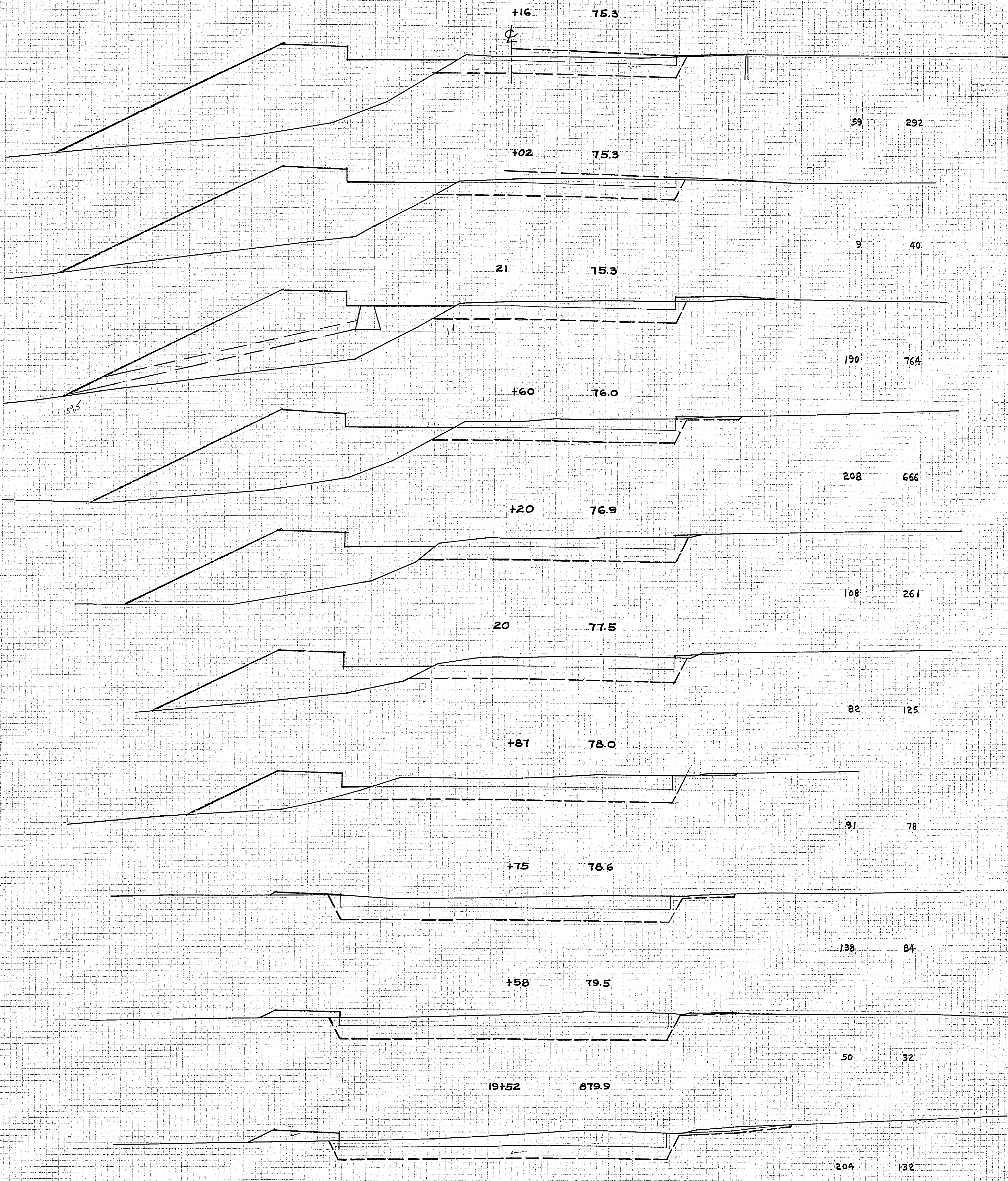
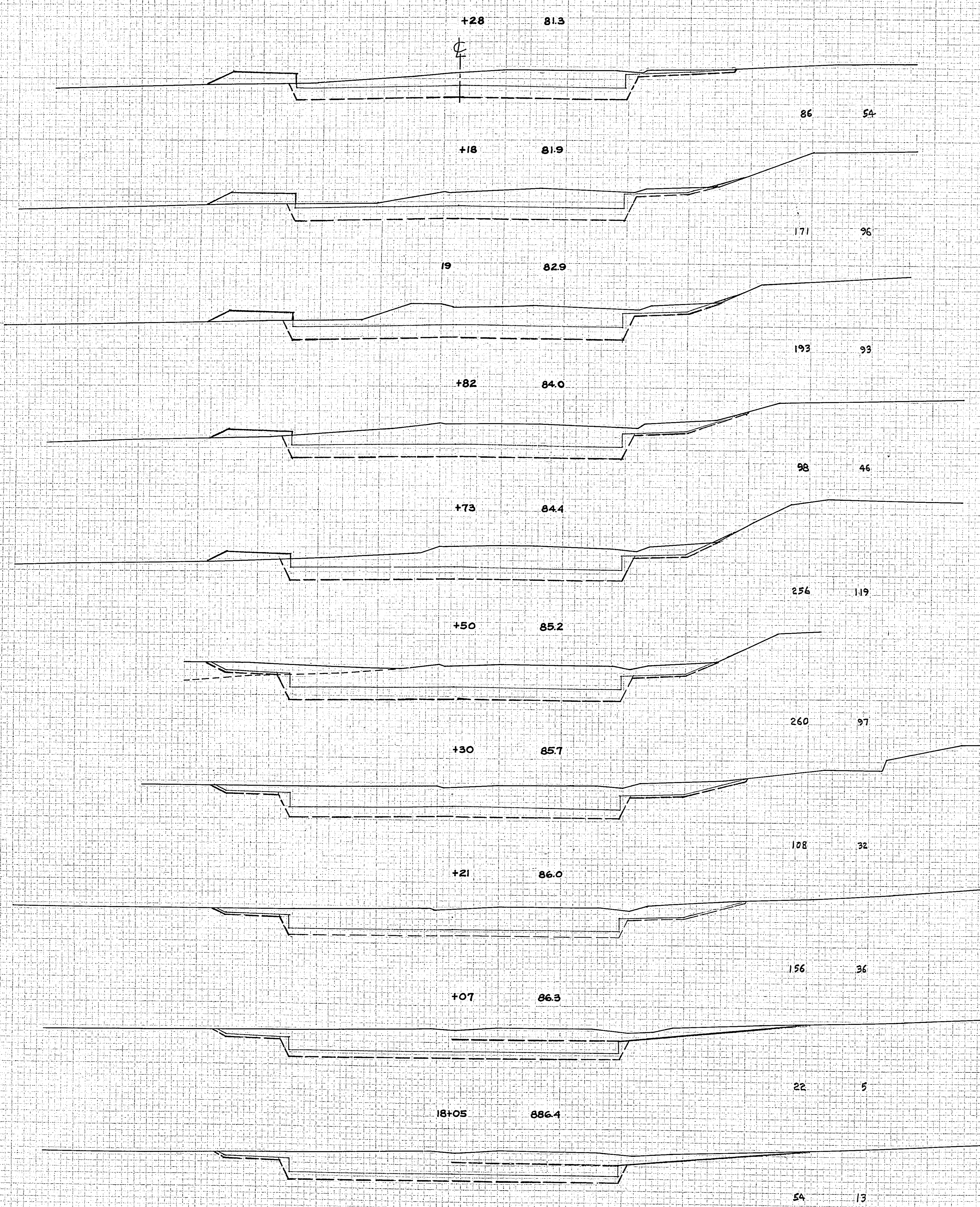


TABLE
GENERAL NOTES
REVISIONS

TABLE
GENERAL NOTES
REVISIONS

CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION / EMBANKMENT

SUB-TOTALS - CU. YDS. CU. YDS. - SUB-TOTALS

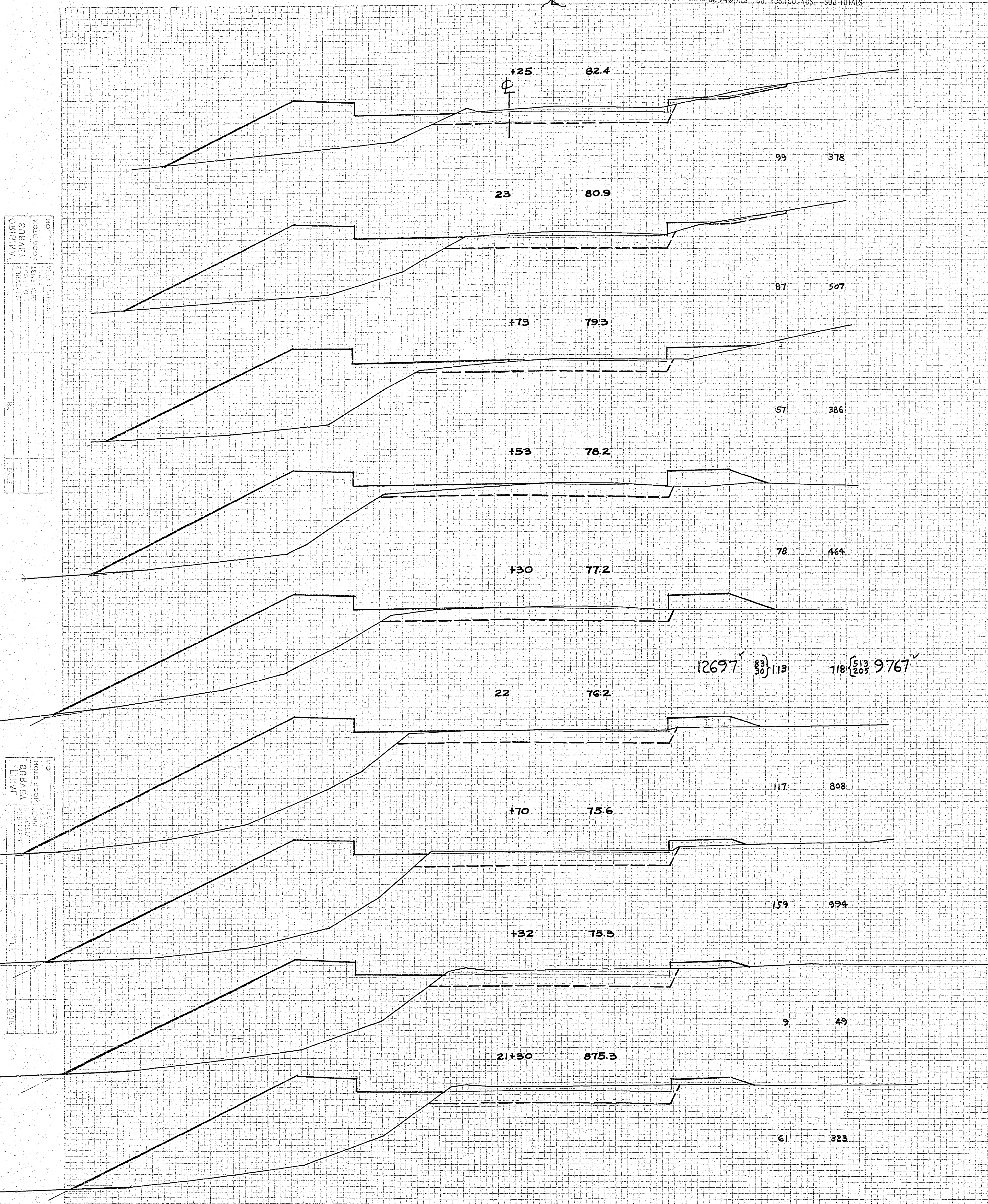
STATION-ELEVATION

EXCAVATION / EMBANKMENT

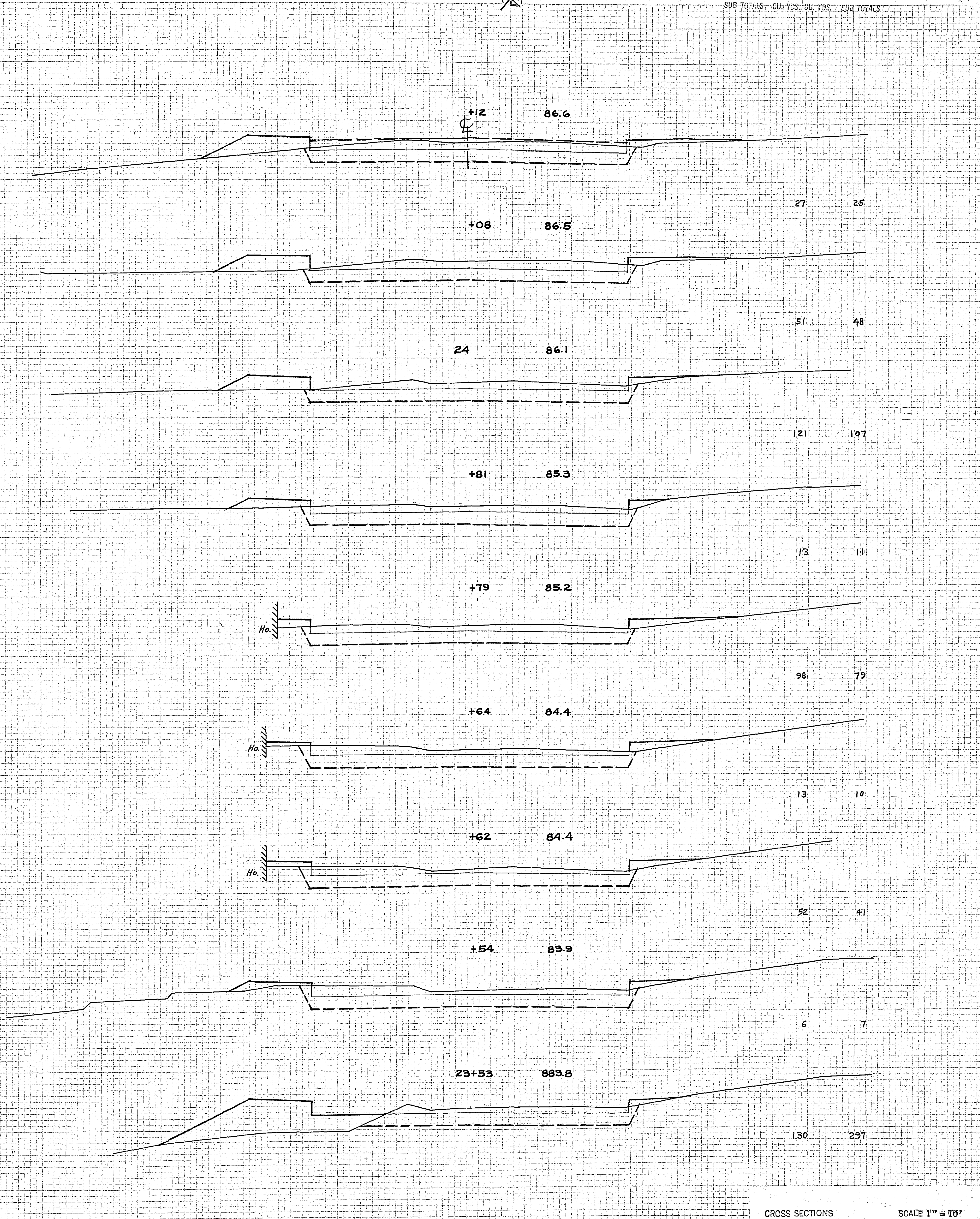
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DATE: 10/15/53
DRAWN BY: J. H. BROWN
CHECKED BY: J. H. BROWN

DATE: 10/15/53
DRAWN BY: J. H. BROWN
CHECKED BY: J. H. BROWN



12697 $\frac{83}{30}$ 113 718 $\frac{513}{205}$ 9767



CROSS SECTIONS SCALE 1" = 10'

68/5

STATION-ELEVATION

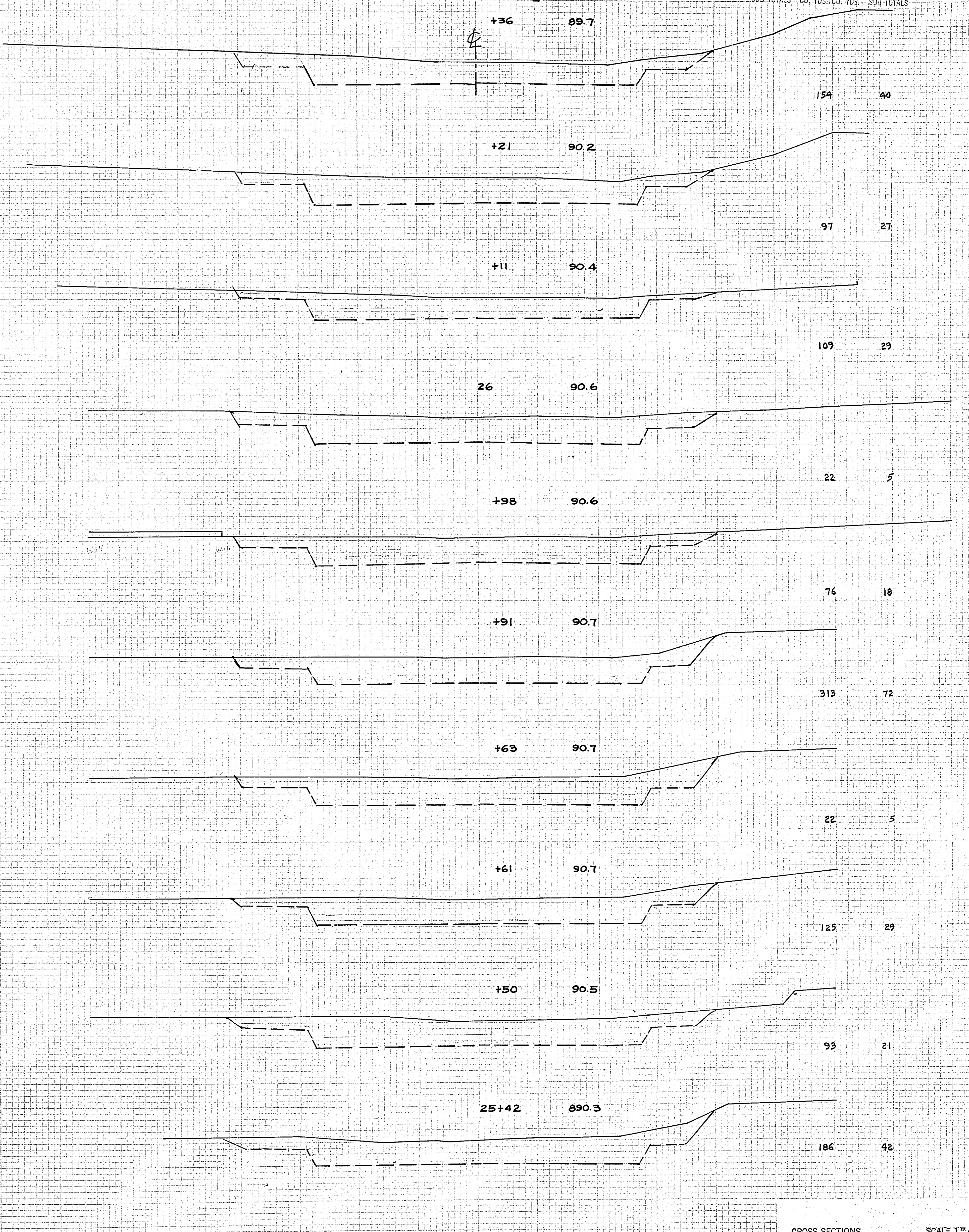
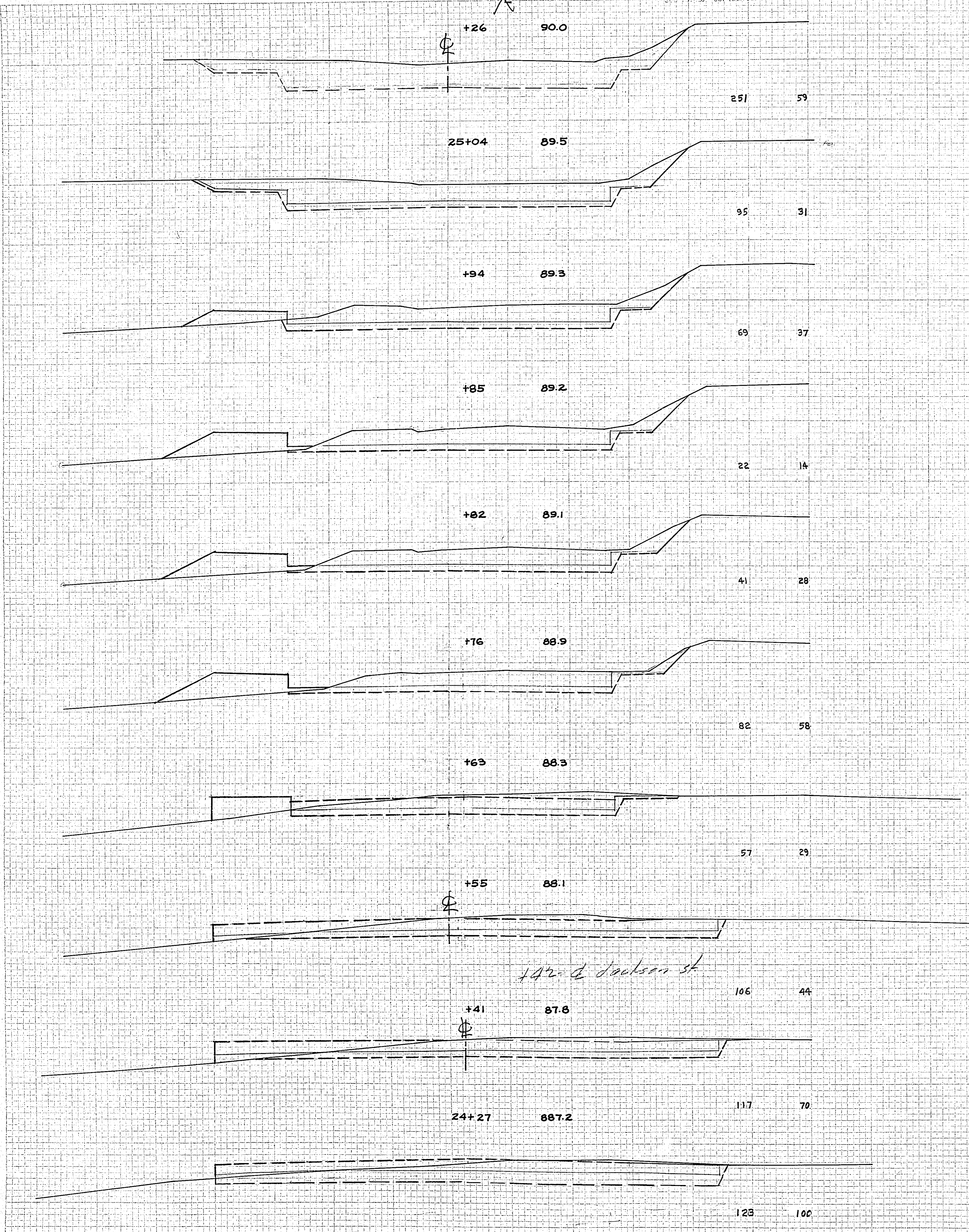
EXCAVATION | EMBANKMENT
SUB-TOTALS CU. YDS. CU. YDS. SUB-TOTALS

STATION-ELEVATION

EXCAVATION | EMBANKMENT
SUB-TOTALS CU. YDS. CU. YDS. SUB-TOTALS

VERTICAL CURVE DATA
SCALE 1" = 10'

PROJECT INFORMATION
DATE: 10/15/10
DRAWN BY: J. B. [unclear]
CHECKED BY: [unclear]
APPROVED BY: [unclear]



142 - Jackson St

315

CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION



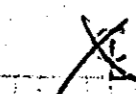
EXCAVATION / EMBANKMENT

SUB-TOTALS - CU - YDS. CU - YDS. - SUB-TOTALS

EXCAVATION / EMBANKMENT

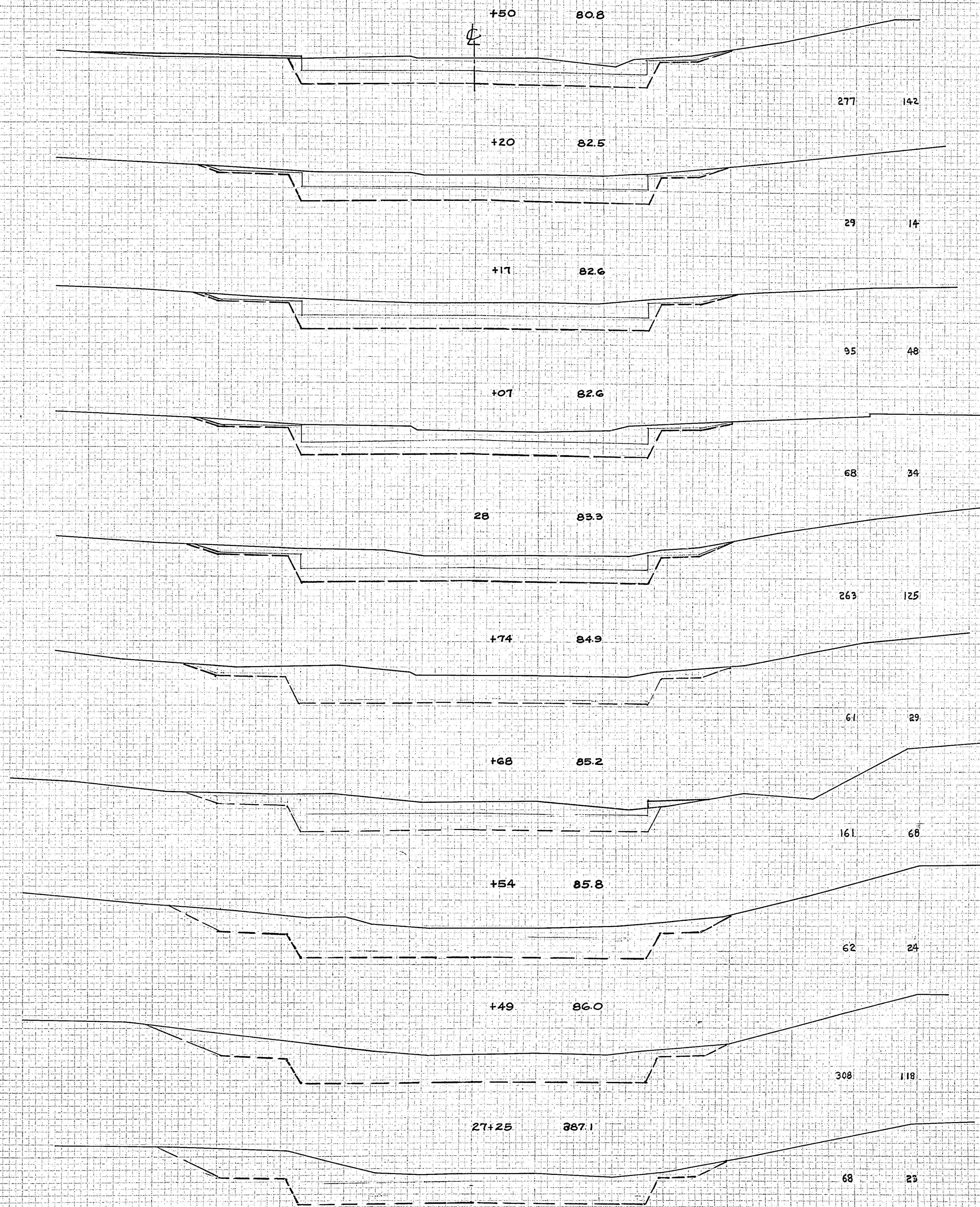
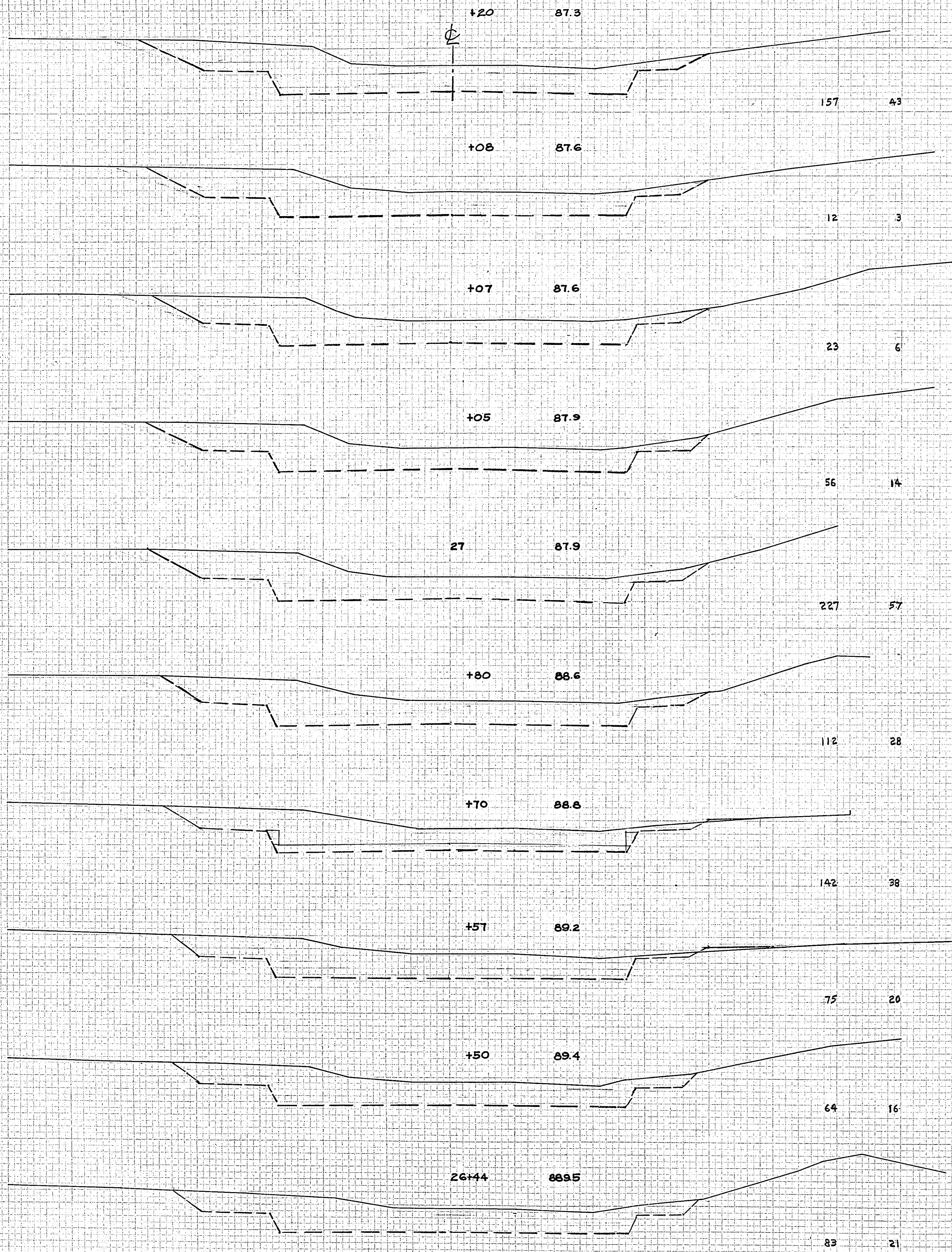
SUB-TOTALS - CU - YDS. CU - YDS. - SUB-TOTALS

STATION-ELEVATION



EXCAVATION / EMBANKMENT

SUB-TOTALS - CU - YDS. CU - YDS. - SUB-TOTALS



CROSS SECTIONS

SCALE 1" = 10'

6815

DATE: 11/11/54
 DRAWN BY: J. J. ...
 CHECKED BY: ...
 PROJECT: ...
 SHEET: ...

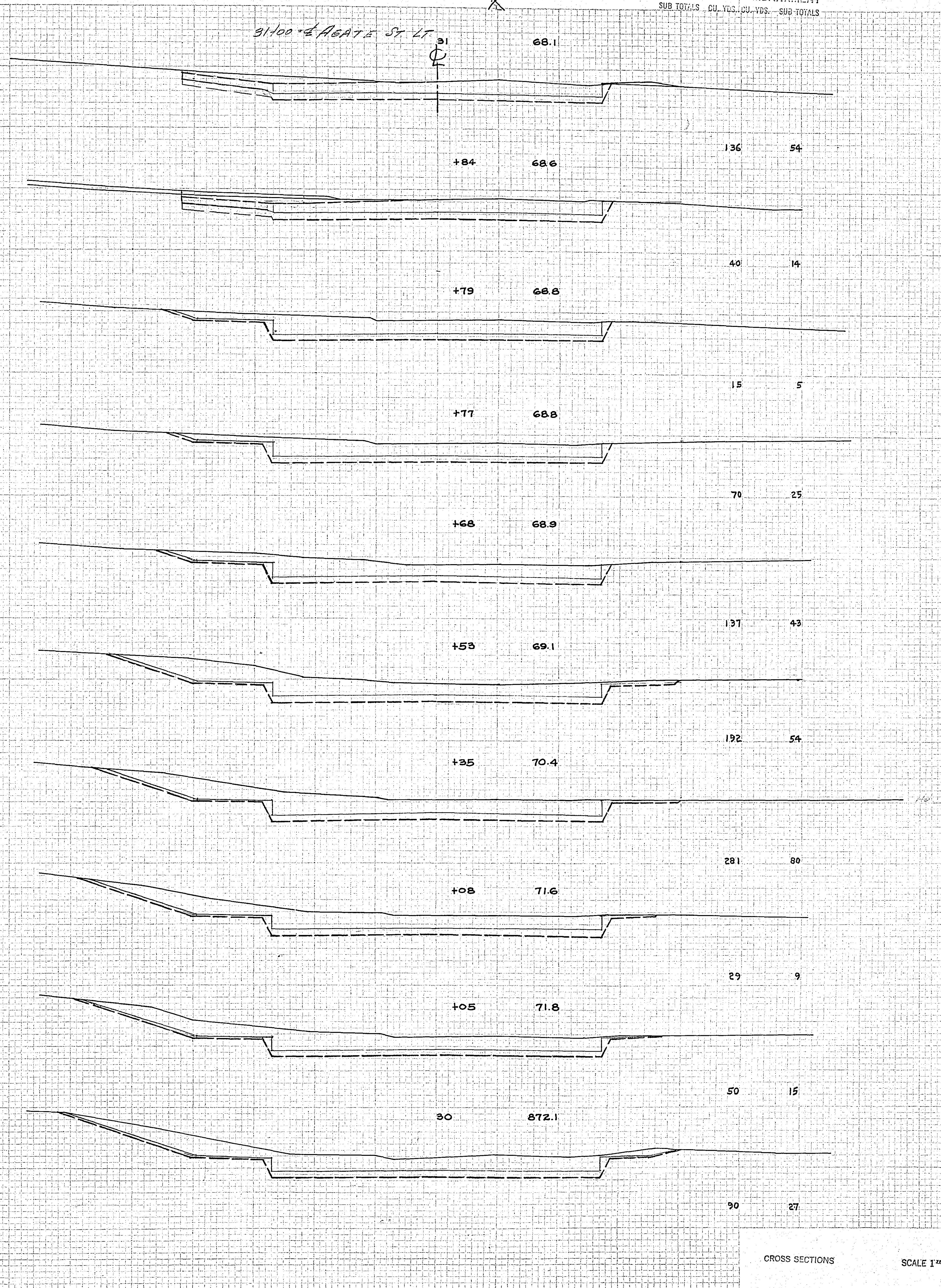
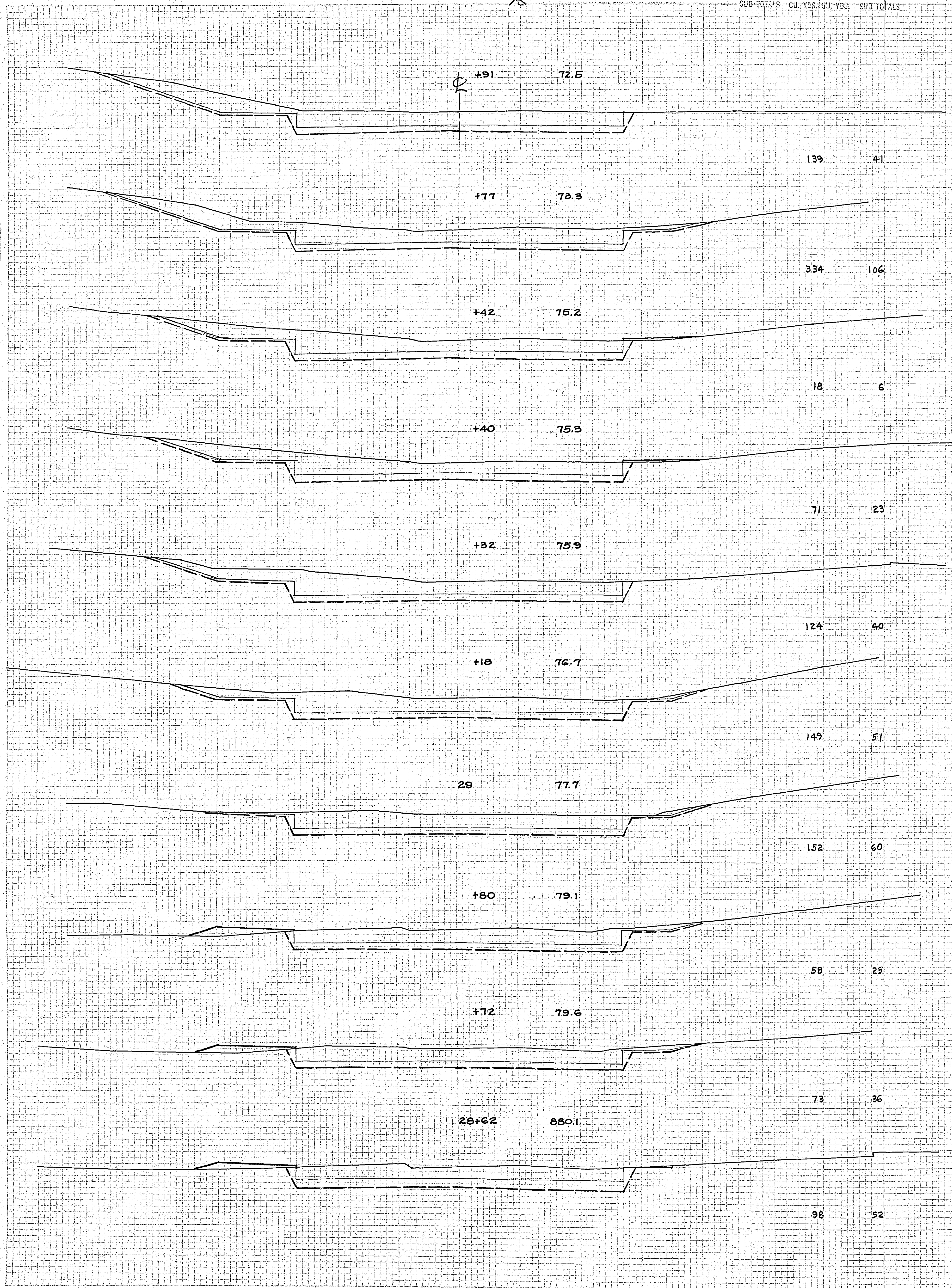
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 DRAWN BY: J. J. ...
 CHECKED BY: ...
 PROJECT: ...
 SHEET: ...

STATION-ELEVATION

EXCAVATION | EMBANKMENT

STATION-ELEVATION

EXCAVATION | EMBANKMENT



1. DATE: _____
 2. DRAWN BY: _____
 3. CHECKED BY: _____
 4. APPROVED BY: _____
 5. SCALE: _____
 6. SHEET NO.: _____

1. DATE: _____
 2. DRAWN BY: _____
 3. CHECKED BY: _____
 4. APPROVED BY: _____
 5. SCALE: _____
 6. SHEET NO.: _____

CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION | EMBANKMENT

SUB-TOTALS - CU - YDS. CU - YDS. - SUB-TOTALS

STATION-ELEVATION

EXCAVATION | EMBANKMENT

SUB-TOTALS - CU - YDS. CU - YDS. - SUB-TOTALS

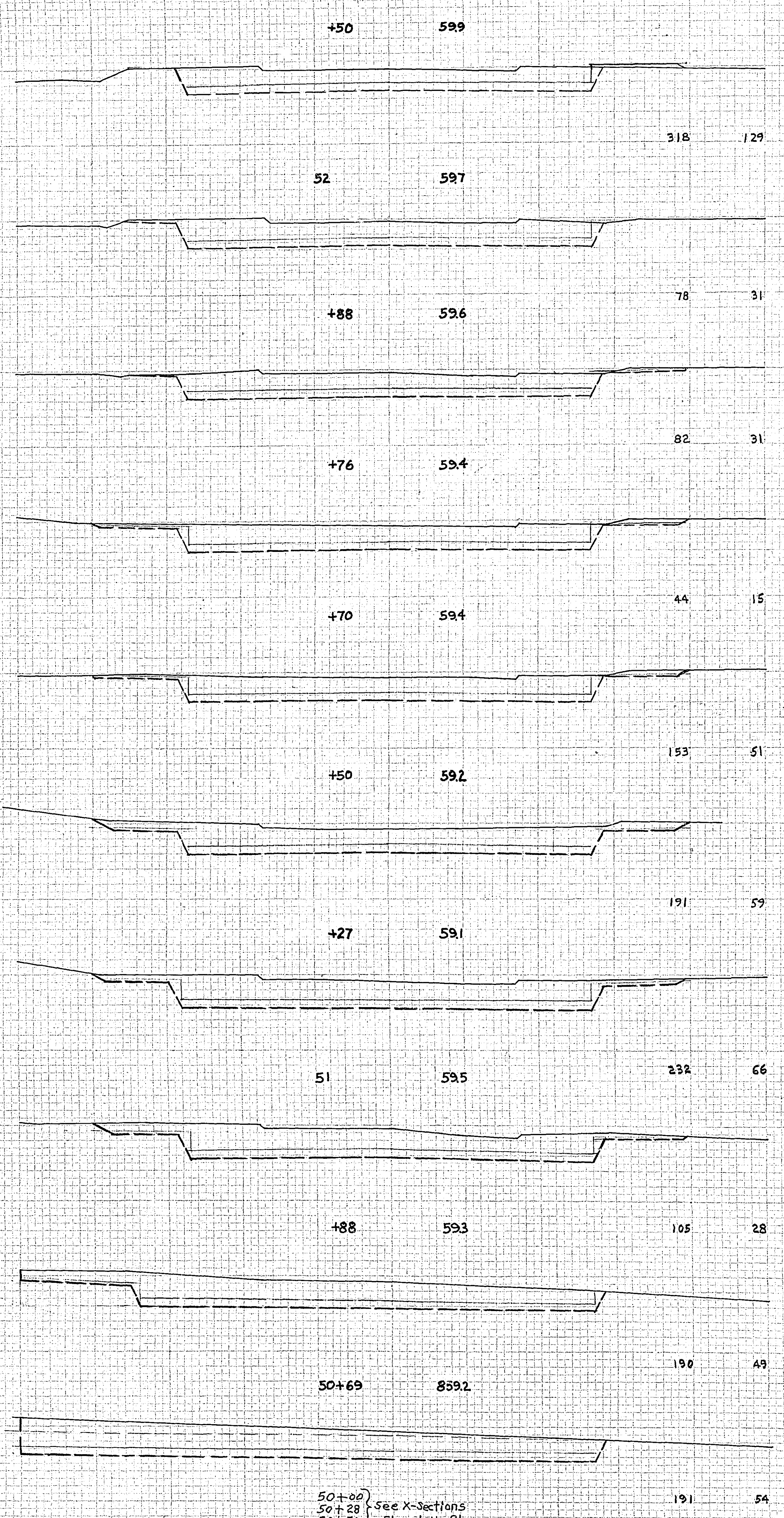
STATION-ELEVATION

EXCAVATION | EMBANKMENT

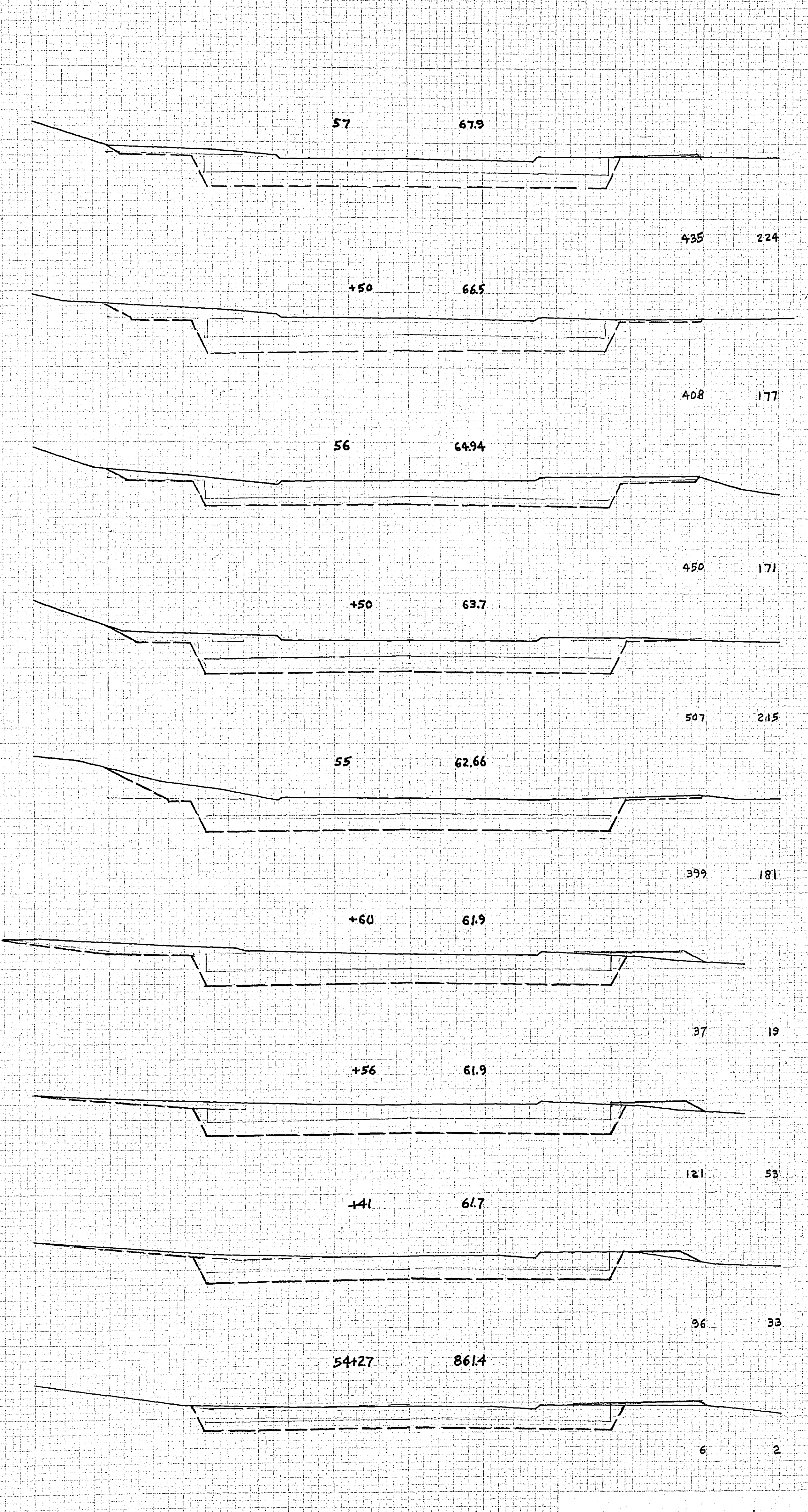
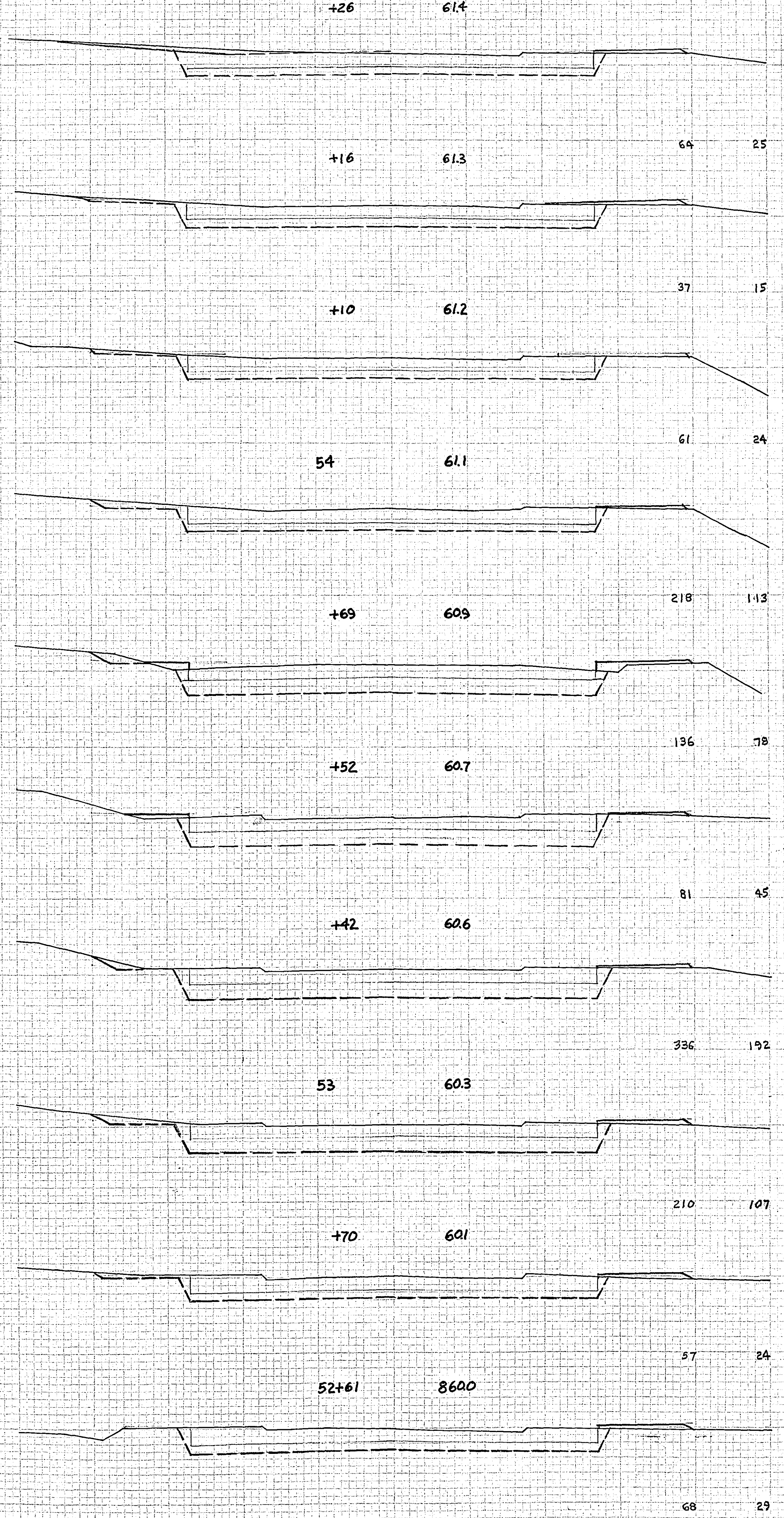
SUB-TOTALS - CU - YDS. CU - YDS. - SUB-TOTALS

DATE: 10/1/50
DRAWN BY: J. W. BROWN
CHECKED BY: J. W. BROWN
SCALE: 1" = 10'

DATE: 10/1/50
DRAWN BY: J. W. BROWN
CHECKED BY: J. W. BROWN
SCALE: 1" = 10'



50+00 } see X-sections
50+28 } Sheet No. 21
50+50 }



CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

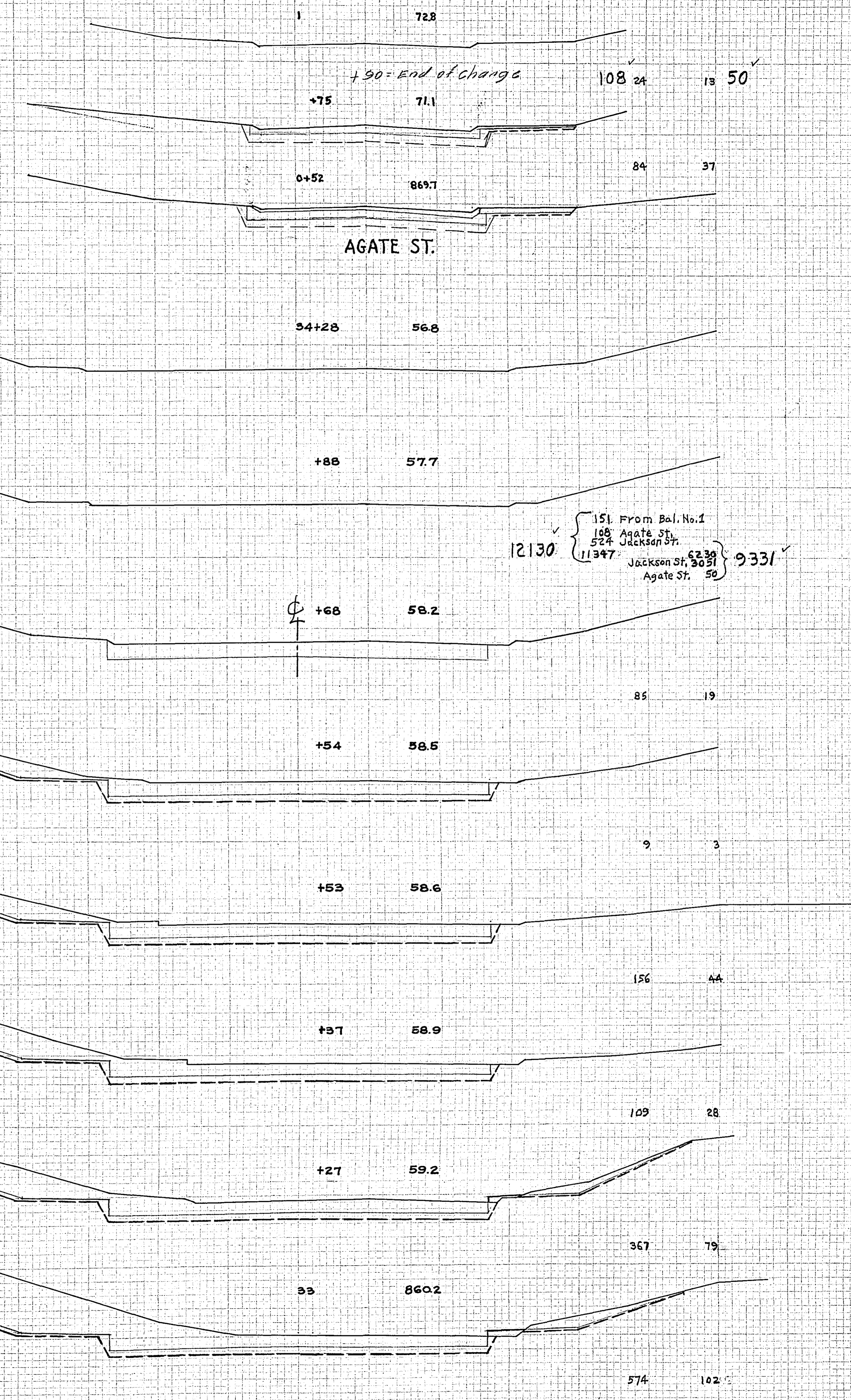
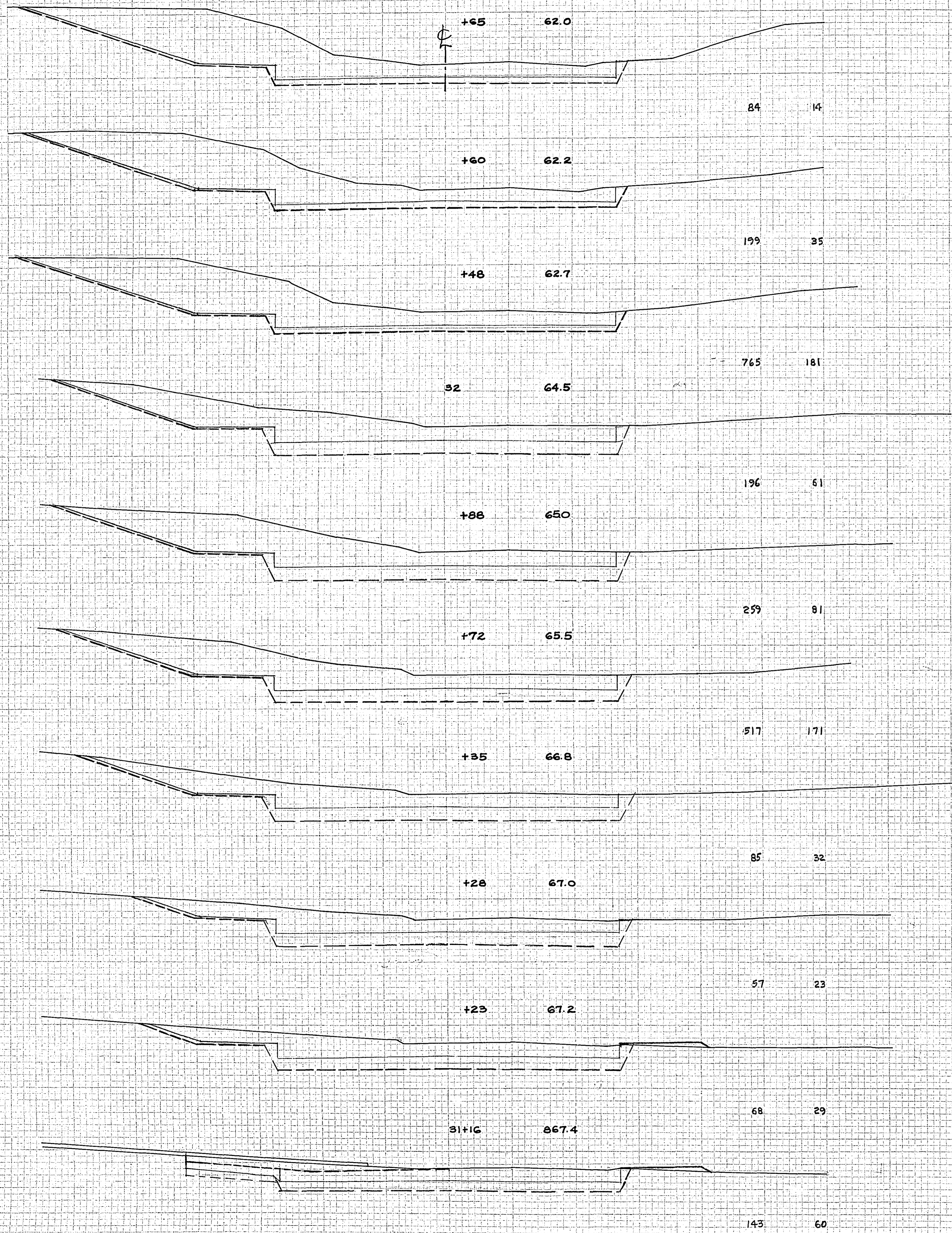
EXCAVATION | EMBANKMENT

EXC. TOTALS - CU. YDS. - CU. YDS. - SUB-TOTALS

STATION-ELEVATION

EXCAVATION | EMBANKMENT

EXC. TOTALS - CU. YDS. - CU. YDS. - SUB-TOTALS



12130 { 151 From Bal. No. 1
168 Agate St.
524 Jackson St.
11347 Jackson St. 62.39
Agate St. 30.51
59 } 9331

DATE: 10/1/50
DRAWN BY: J. J. JAVIER
CHECKED BY: J. J. JAVIER
SCALE: 1" = 10'

DATE: 10/1/50
DRAWN BY: J. J. JAVIER
CHECKED BY: J. J. JAVIER
SCALE: 1" = 10'

GROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION | EMBANKMENT

STATION-ELEVATION

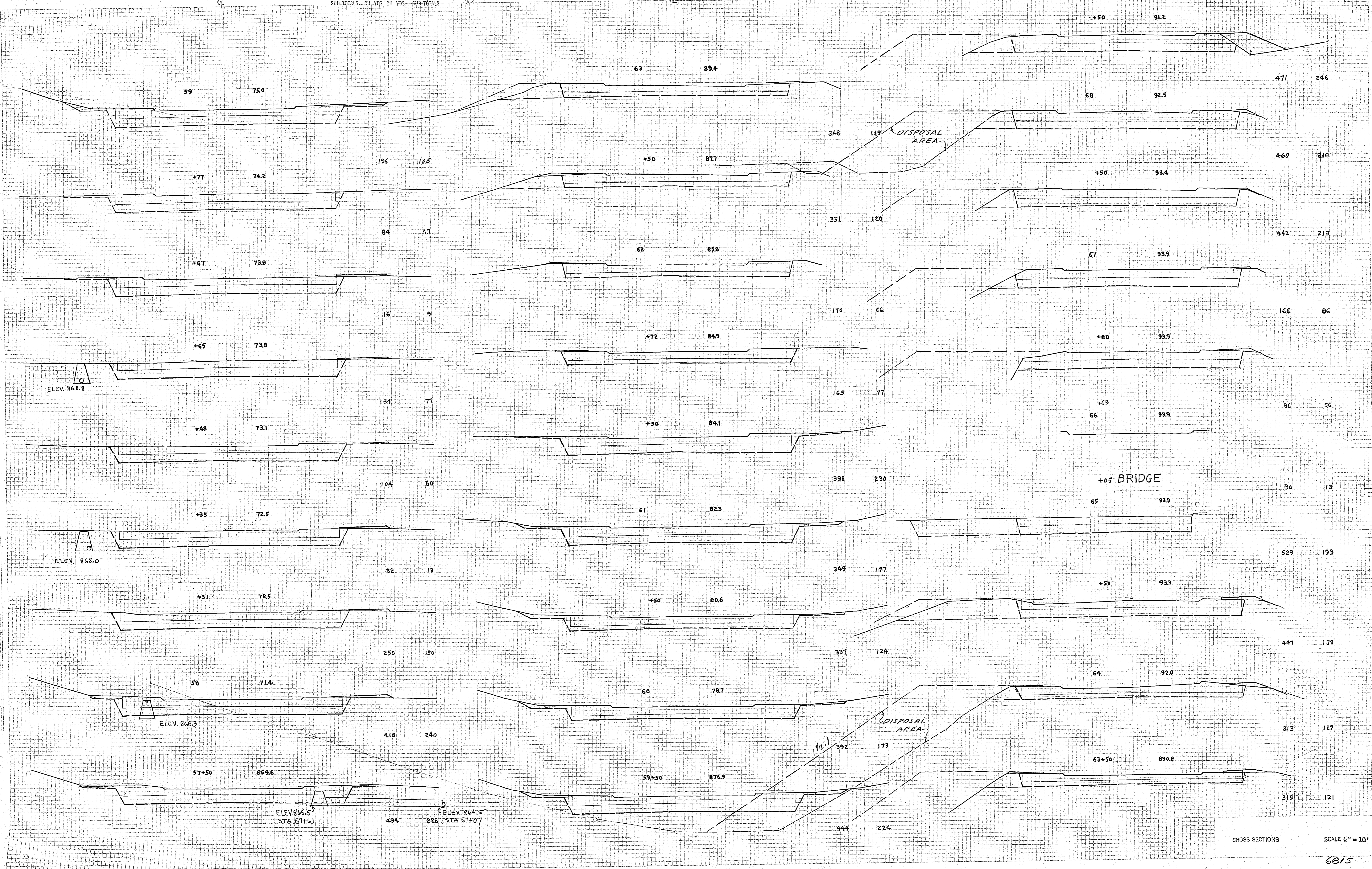
EXCAVATION | EMBANKMENT

STATION-ELEVATION

EXCAVATION | EMBANKMENT

DATE: 11/15/50
BY: J. W. BROWN
CHECKED: J. W. BROWN
SCALE: 1" = 10'

DATE: 11/15/50
BY: J. W. BROWN
CHECKED: J. W. BROWN
SCALE: 1" = 10'



CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION

EXCAVATION / EMBANKMENT

SUB TOTALS - CU. YDS. CU. YDS. - SUB-TOTALS

STATION-ELEVATION

EXCAVATION / EMBANKMENT

SUB TOTALS - CU. YDS. CU. YDS. - SUB-TOTALS

STATION-ELEVATION

EXCAVATION / EMBANKMENT

SUB TOTALS - CU. YDS. CU. YDS. - SUB-TOTALS

+50 88.8

578 237

72 88.7

537 185

+50 88.2

487 133

71 88.1

287 85

+68 88.2

34 11

+64 88.2

129 37

+50 88.3

501 185

70 88.7

537 239

+50 89.3

570 239

69 89.2

535 256

75 90.9

428 132

+50 90.2

379 132

74 89.8

227 73

+73 89.6

45 14

+68 89.6

136 41

+53 89.4

123 38

+39 89.2

44 14

+34 89.2

302 92

73 88.9

498 186

52875 30302

25401 FROM BAL. NO. 1 2399

138 MSKEMENY 9168

50+50 58.4

186 59

50+28 58.5

159 72

50 58.2

+76.79 93.2

46 23

+62 93.0

25 14

+59 93.0

74 44

+50 92.8

423 238

76 92.1

376 180

75+50 89.5

416 134

DATE: 12/15/12
SCALE: 1" = 10'

DATE: 12/15/12
SCALE: 1" = 10'

CROSS SECTIONS SCALE 1" = 10'

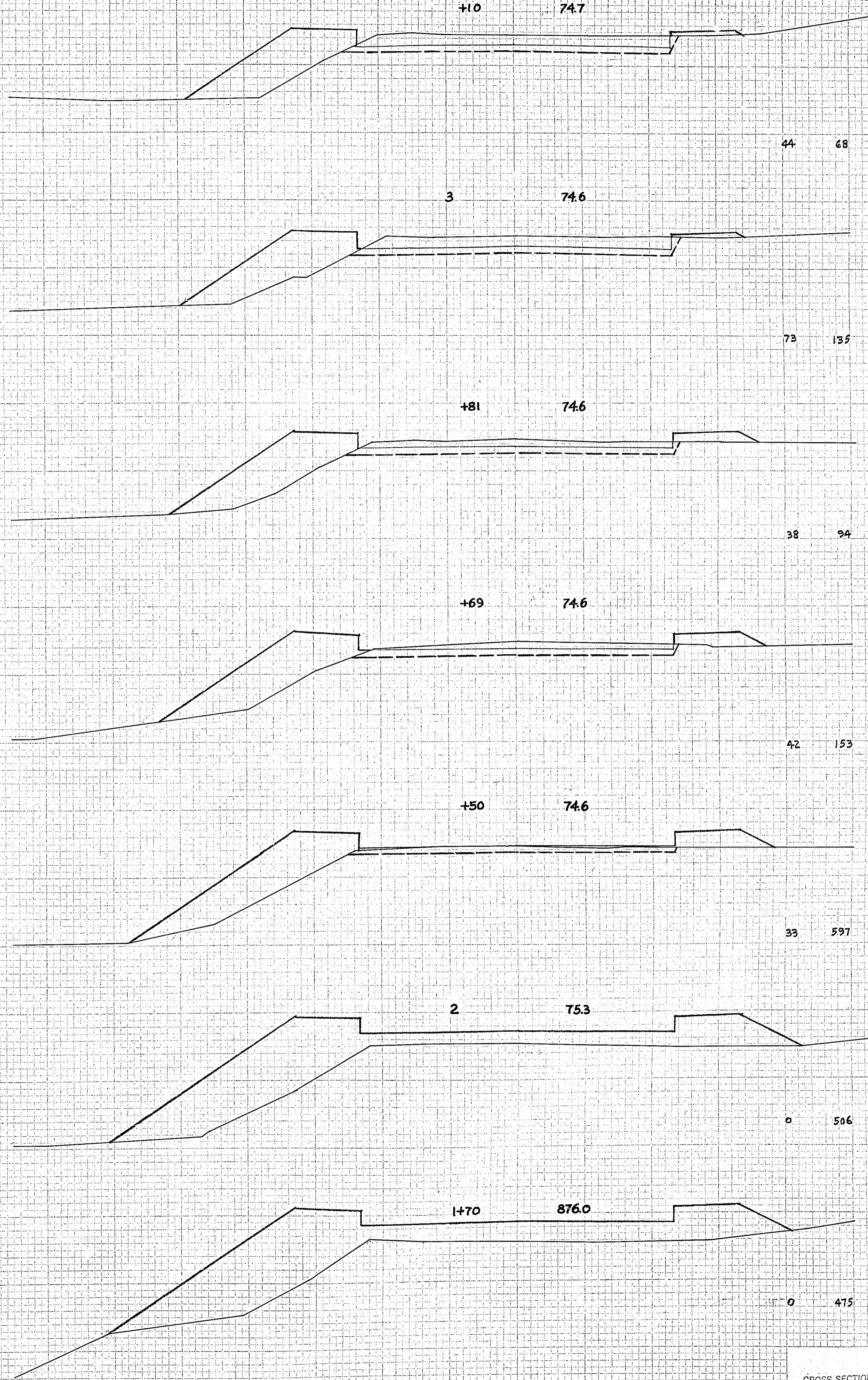
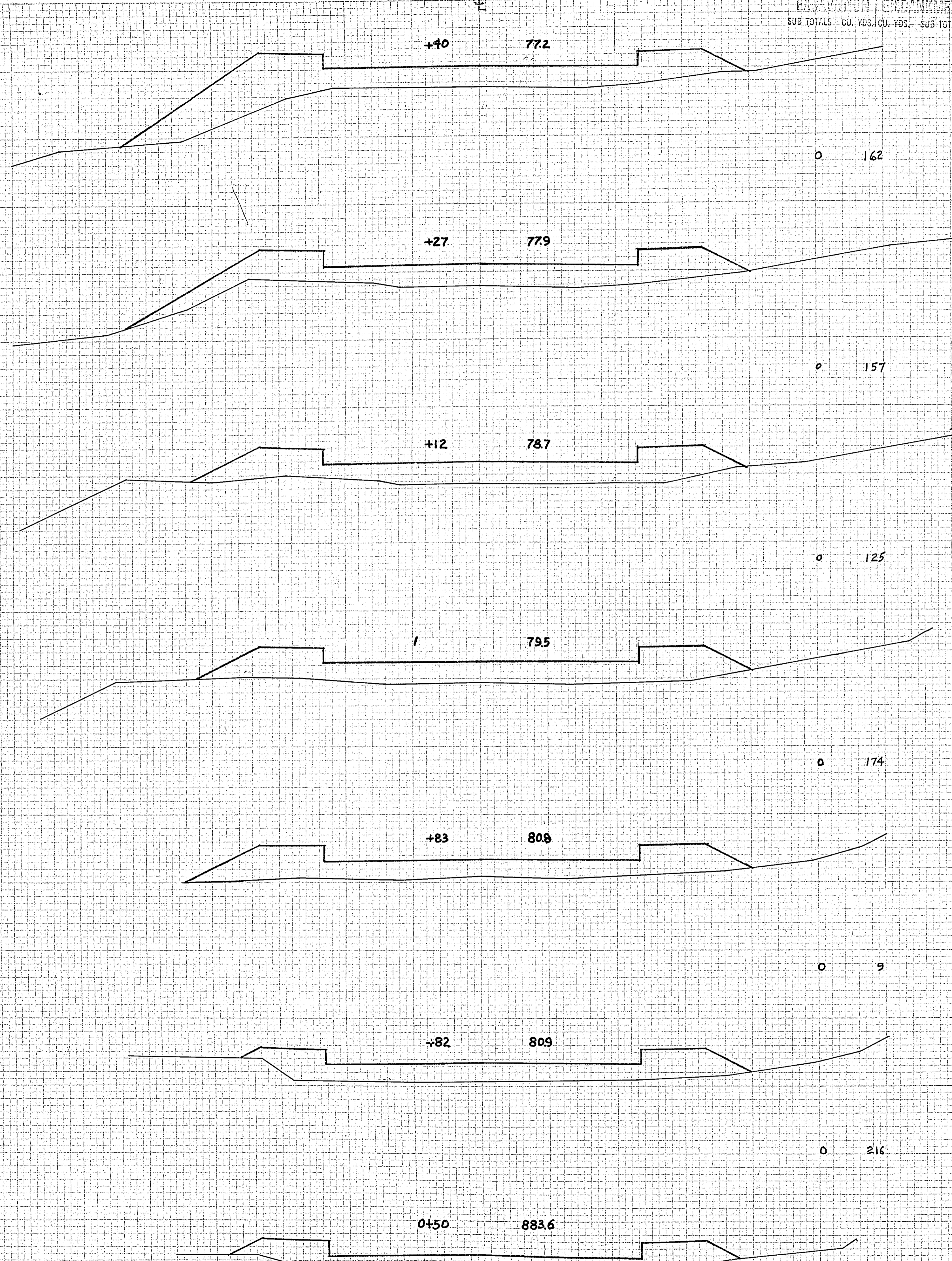
Sheet No. 21 of 24 Sheets

STATION-ELEVATION

EXCAVATION / EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

STATION-ELEVATION

EXCAVATION / EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS



JACKSON ST.

CROSS SECTIONS

SCALE 1" = 10'

6815

NO. 1
DATE
BY
CHECKED
APPROVED

NO. 2
DATE
BY
CHECKED
APPROVED

STATION-ELEVATION

EXCAVATION | EMBANKMENT

SUB-TOTALS - CU. YDS. CU. YDS. SUB-TOTALS

STATION-ELEVATION

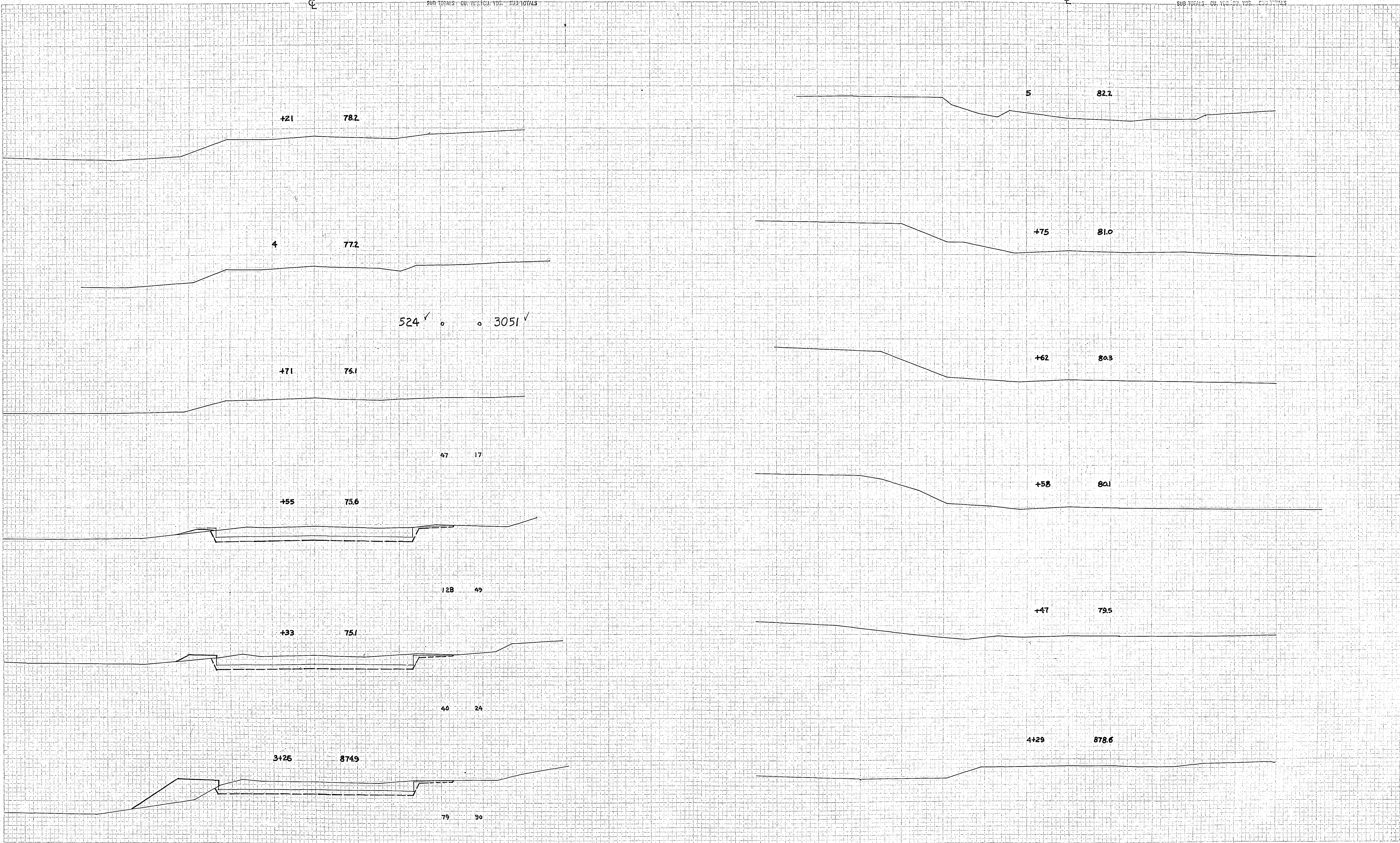
EXCAVATION | EMBANKMENT

SUB-TOTALS - CU. YDS. CU. YDS. SUB-TOTALS

K. W. E. CO. INC. 388 S. ...
HENRIE Y. GREEN CO. MENARD
2711 E. 3rd CROSS SECTION OF N.W. 1/4 R. 21 N. 10 W. 10 E.

NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



JACKSON ST.

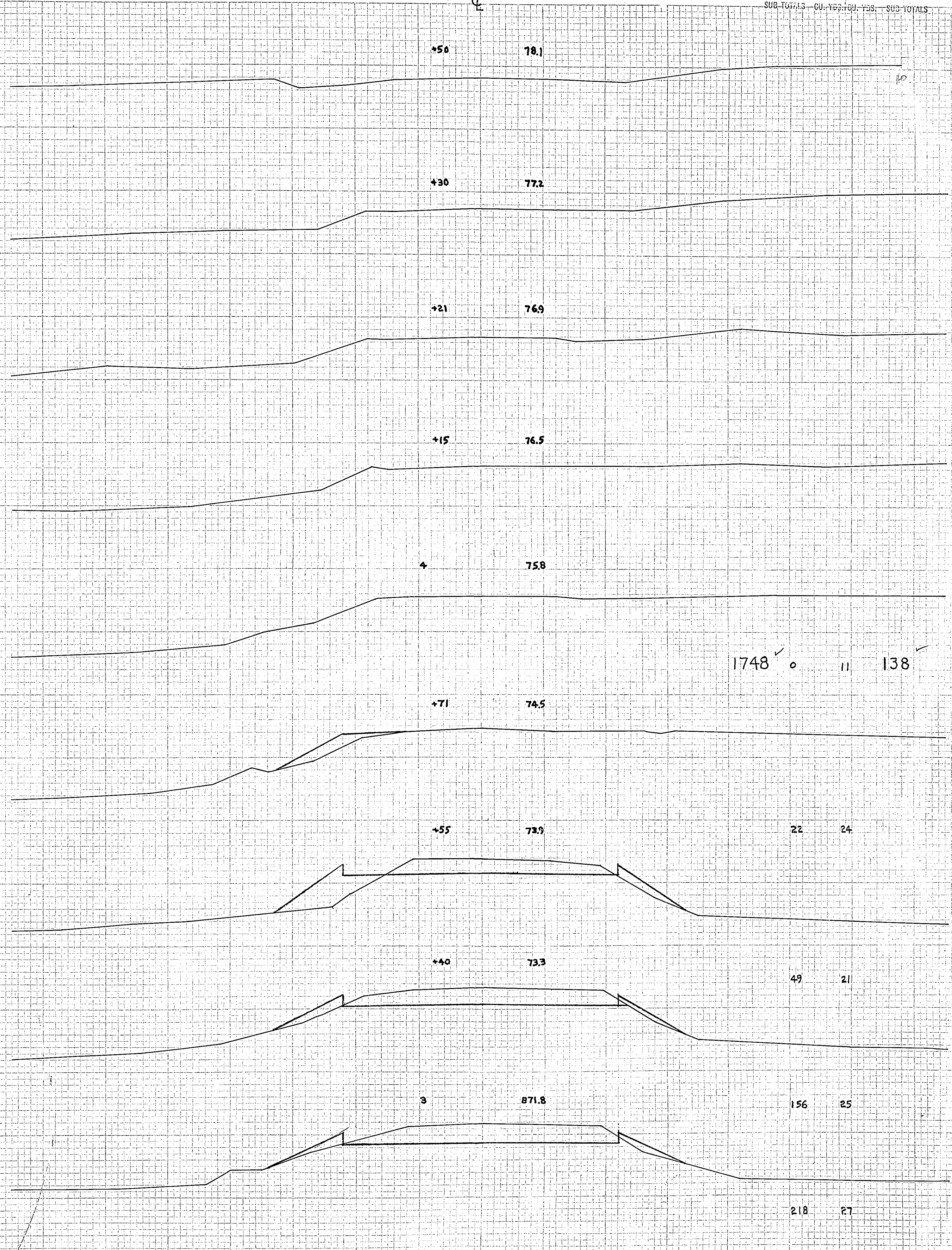
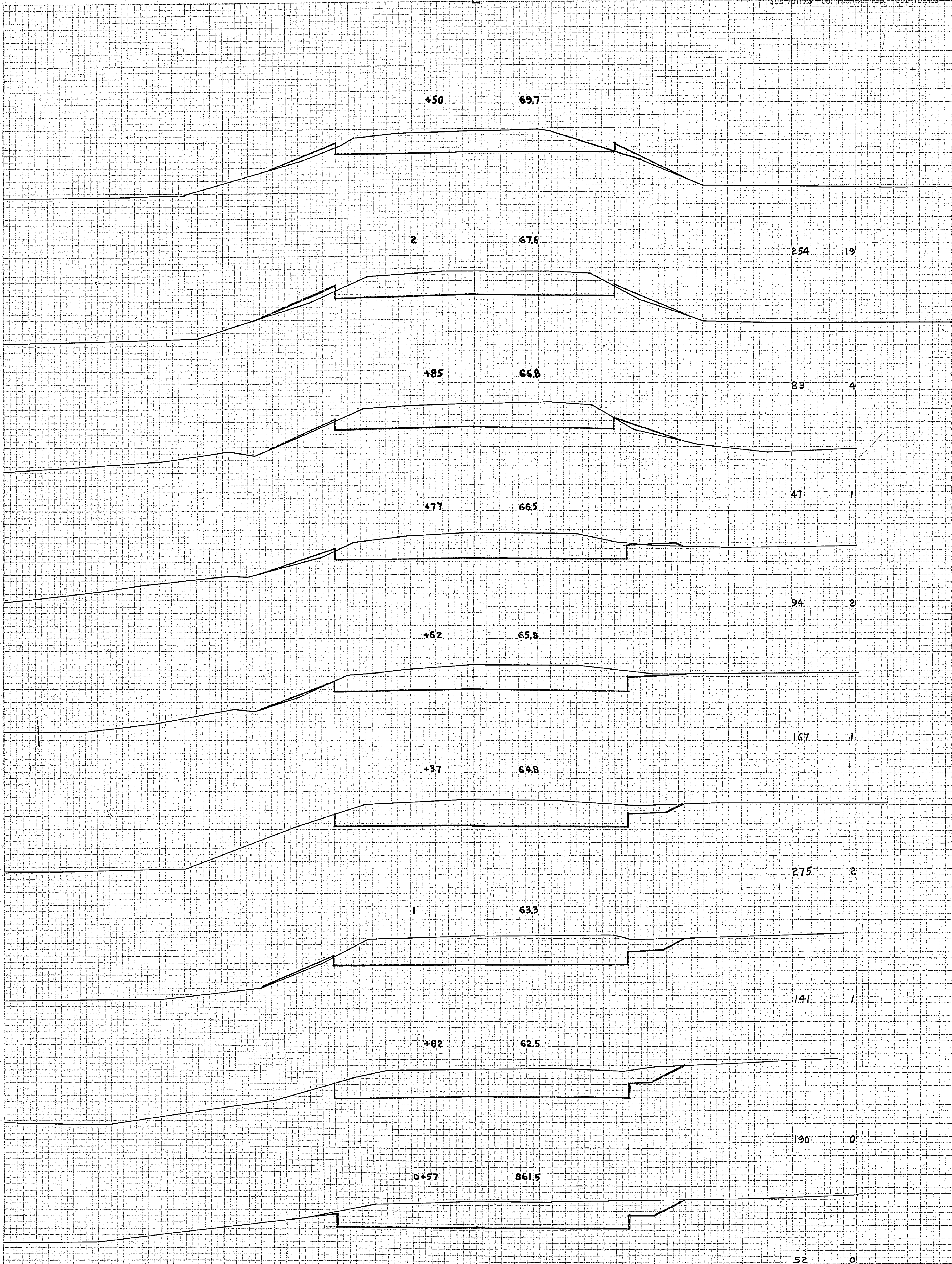
CROSS SECTIONS SCALE 1" = 10'

STATION-ELEVATION
C

EXCAVATION | EMBANKMENT
SUB-TOTALS - CU. YDS. CUT - YDS. FILL - YDS. SUB-TOTALS

STATION-ELEVATION
C

EXCAVATION | EMBANKMENT
SUB-TOTALS - CU. YDS. CUT - YDS. FILL - YDS. SUB-TOTALS



1748' 0" 11' 138'

McMENEMY ST.

CROSS SECTIONS SCALE 1" = 10'

NO. 10
SCALE BOOK
SUNAVATA
DATE

NO. 10
SCALE BOOK
SUNAVATA
DATE

**STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
CONSTRUCTION PLAN FOR CROSSING SIGNALS
RAMSEY COUNTY- CSAH 30
IN ST. PAUL
ON LARPENTEUR AVE.
M. ST. P. & S. STE. M. R. R. (SOO LINE)**

MINNESOTA PROJECT U.G. 083-1(4)

STATE PROJECT NO. 62-630-04 (CSAH 30)

GROSS LENGTH..... FEET..... MILES
BRIDGES-LENGTH..... FEET..... MILES
EXCEPTIONS-LENGTH..... FEET..... MILES
NET LENGTH..... FEET..... MILES

GROSS LENGTH..... FEET..... MILES
BRIDGES-LENGTH..... FEET..... MILES
EXCEPTIONS-LENGTH..... FEET..... MILES
NET LENGTH..... FEET..... MILES

SCALES { PLAN. 1 inch = 100 Feet
PROFILE. Horz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet

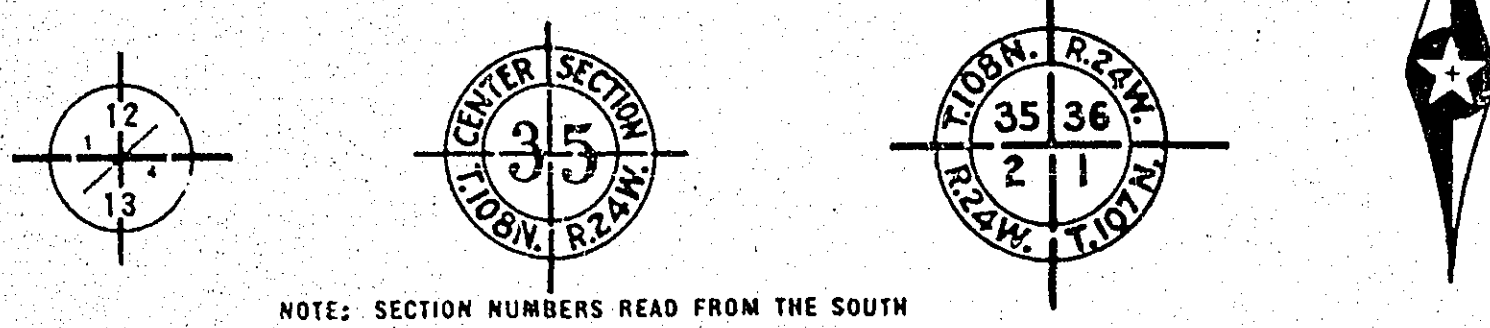
LAYOUT
Scale 1 inch = 2640 Feet

SPECIFICATIONS

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959, AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 26, 1959, SHALL GOVERN.

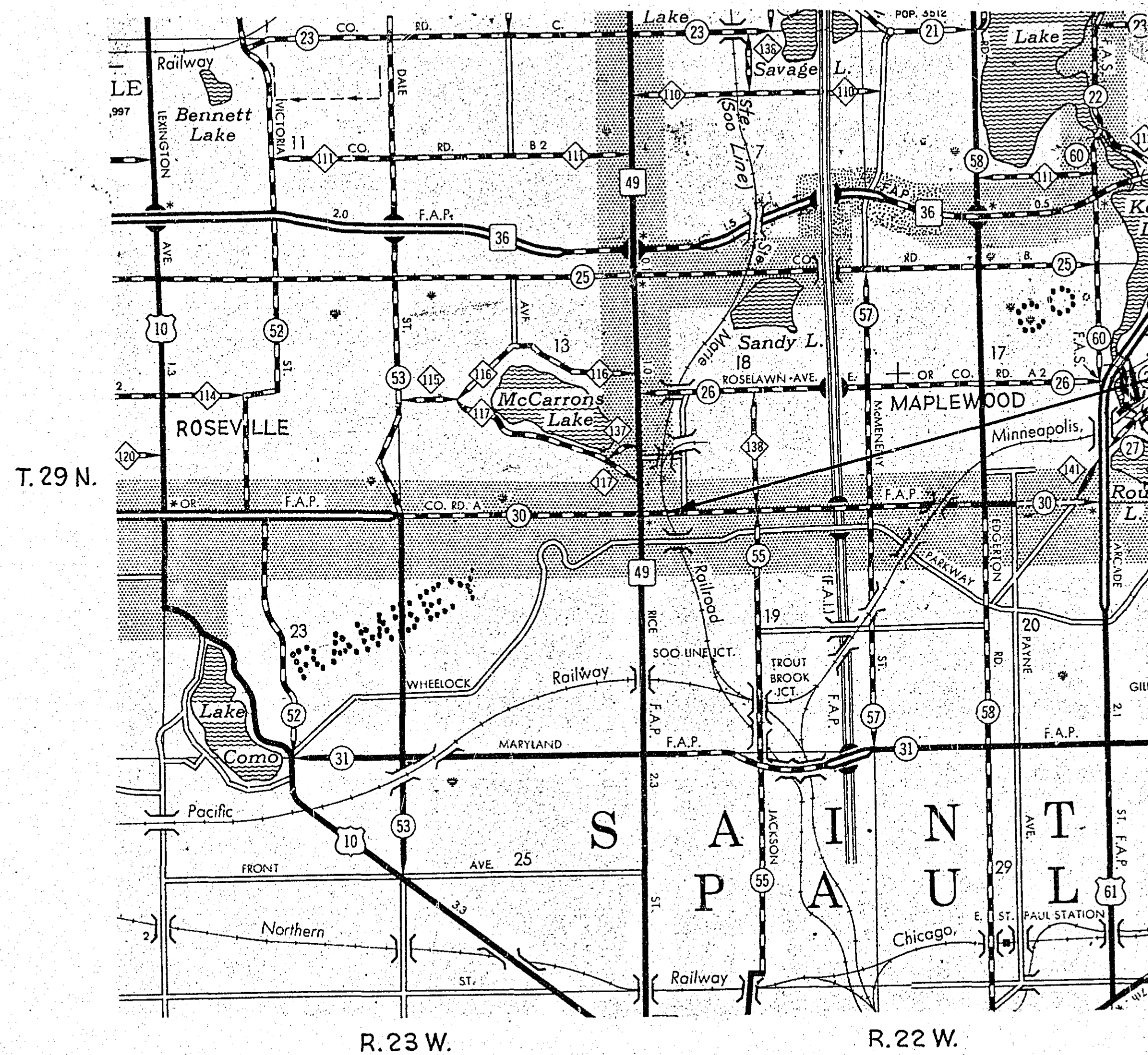
CONVENTIONAL SIGNS

STATE LINE	TIMBER
COUNTY LINE	BRUSH
TOWNSHIP OR RANGE LINE	ORCHARD
SECTION LINE	ROCK LEDGE
QUARTER LINE	SAND
SIXTEENTH LINE	EDGE OF CUT
RIGHT-OF-WAY LINE	TOE OF EMBANKMENT
PROPERTY LINE (Except Land Lines)	CATCH BASIN
VACATED PLATTED PROPERTY	MANHOLE
CORPORATE OR CITY LIMITS	FIRE HYDRANT
TRUNK HIGHWAY CENTER LINE	ARC LAMP
RETAINING WALL	OTHER LAMPS (State Kind)
STEAM RAILROAD	RAILROAD CROSSING SIGN
ELECTRIC RAILROAD	RAILROAD CROSSING BELL
RAILROAD RIGHT-OF-WAY LINE	ELECTRIC WARNING SIGN
CREEK	CROSSING GATE
RAPIDS OR WATERFALL	CATTLE GUARD
DRY RUN	OVERHEAD (Highway Over)
DRAINAGE DITCH	UNDERPASS (Highway Under)
HIGH TENSION LINE	ABUTMENT, WALL & PIER
POWER POLE LINE	BRIDGE
TELEPHONE OR TELEGRAPH LINE	BUILDING (One Story Frame)
CULVERT	F-FRAME C-CONCRETE
DROP INLET	S-STONE T-TILE
GUARD RAIL	B-BRICK ST-STUCCO
WIRE FENCE	IRON PIPE
RAILROAD SNOW FENCE	STONE MONUMENT
BOARD OR HIGHWAY SNOW FENCE	WOOD STAKE OR HUB
STONE WALL OR FENCE	MEANDER CORNER
HEDGE	
WATER PIPE	
SEWER PIPE	
DRAIN TILE	
GRAVEL PIT	
SAND PIT	
CLAY PIT	
ROCK QUARRY	
SPRINGS	
MARSH	
TRUNK HIGHWAY #/W	
RAILROAD #/W	
PRESENT ROAD #/W	
LIMITED ACCESS	



PIT DATA

PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul



HIGHWAY-RAILROAD CROSSING SIGNALS

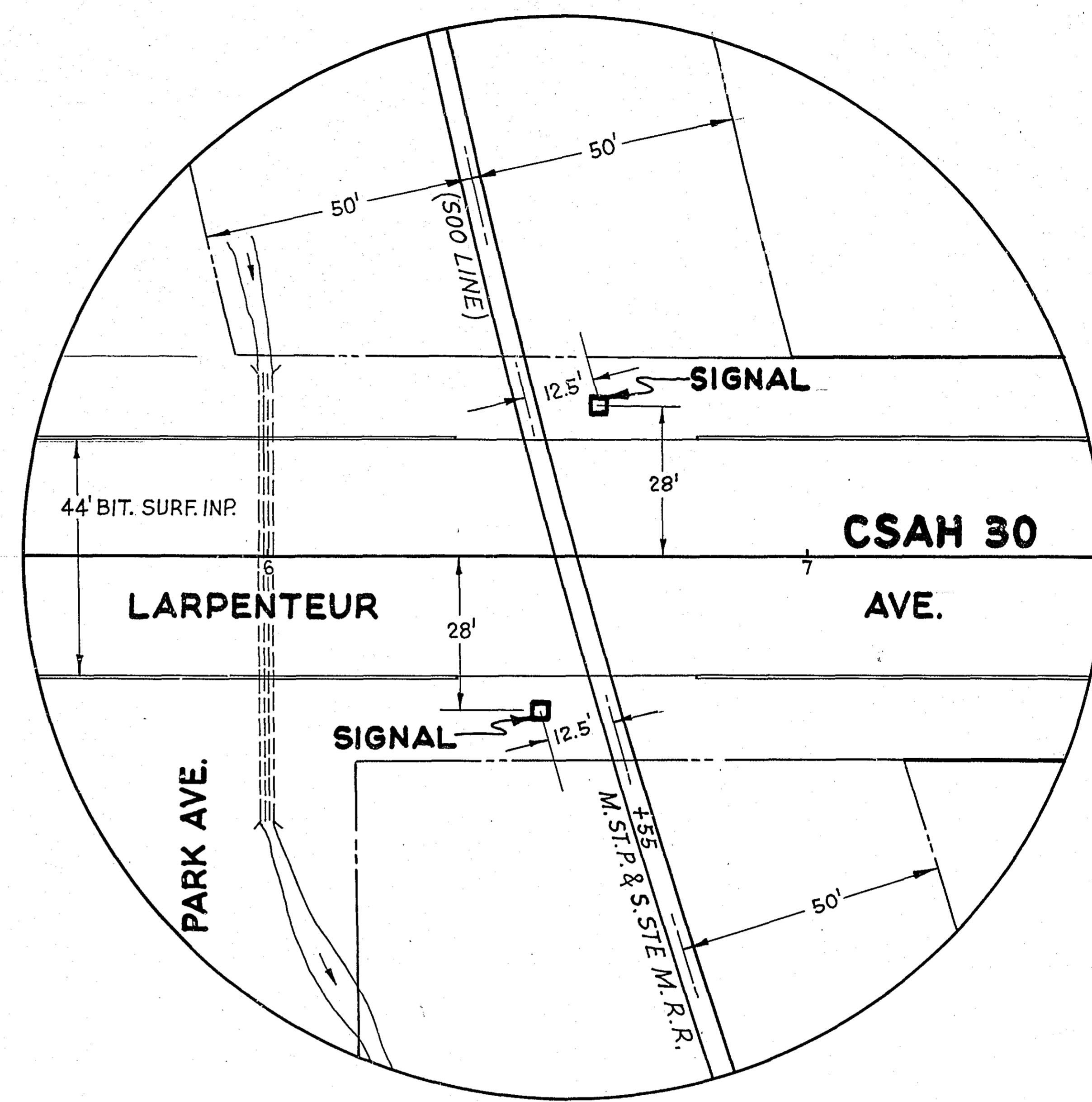
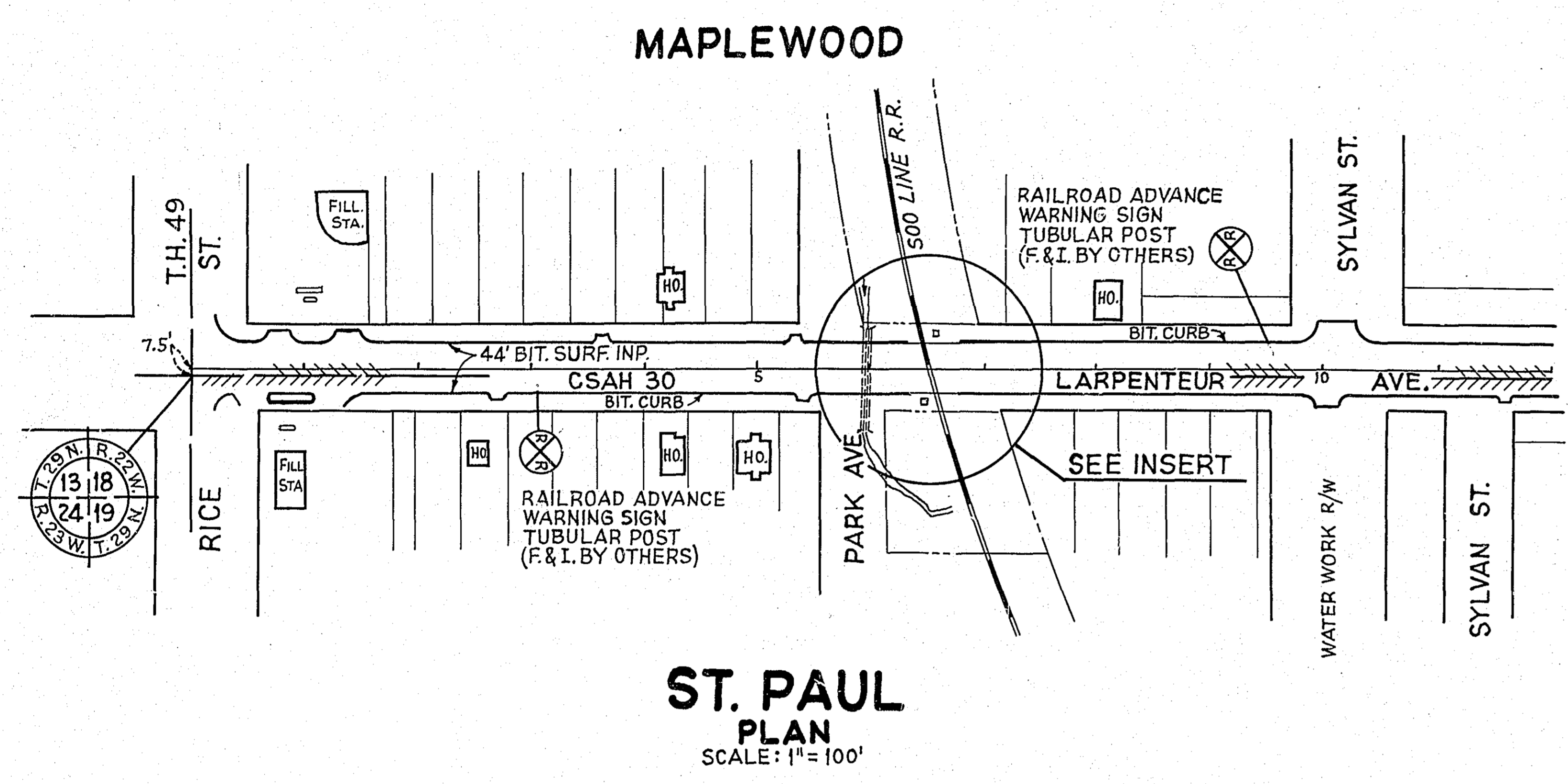
THE APPROXIMATE LOCATION OF THE SIGNAL SYSTEM IS 7.5' N. & 655' E. OF THE S.W. COR. OF SEC. 18 T. 29 N. R. 22 W.

- Recommended for Approval S. M. ... 10-6-1961
STATE AID ENGINEER
- Recommended for Approval P. B. ... 10-12-1961
BY NEGOTIATIONS ENGINEER
- Recommended for Approval W. ... 10-6-1961
ROAD PLANS ENGINEER
- Recommended for Approval _____ 19____
DISTRICT ENGINEER
- Recommended for Approval M. E. Hermanson 10-10-61
ASSISTANT ROAD DESIGN ENGINEER
- Recommended for Approval A. T. Burns 10/10/1961
ROAD DESIGN ENGINEER
- Approved 10-10-1961 C. ...
ASSISTANT CHIEF ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

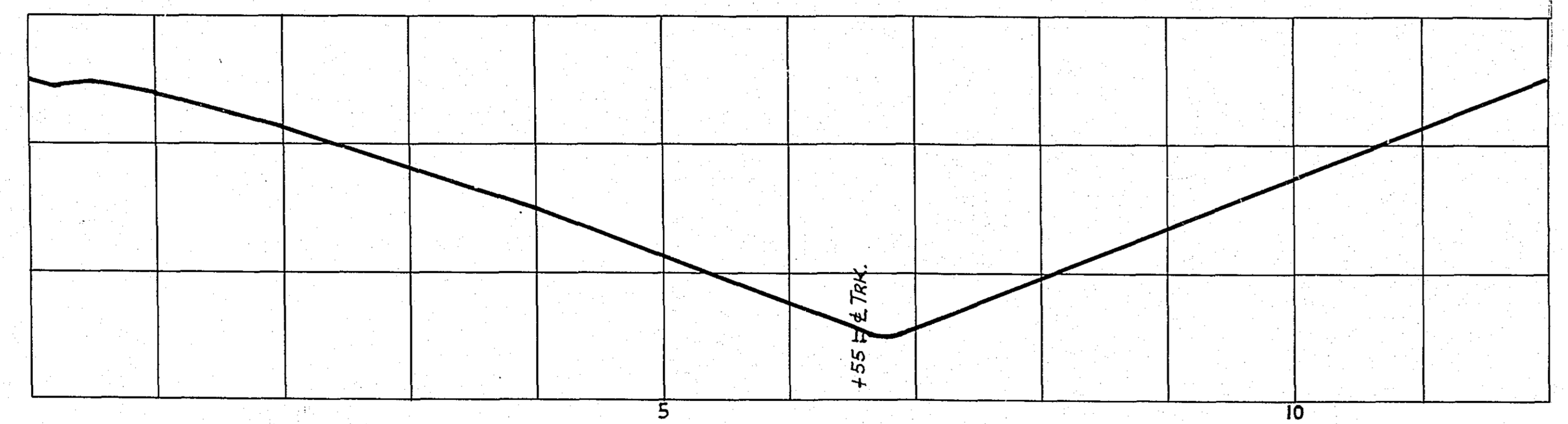
APPROVED: _____ DATE _____

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Eng. ...
DATE 10-6-61 REG. NO. 3318



INSERT
SCALE: 1" = 20'

PROFILE
SCALE (HOR. 1" = 100'
VERT. 1" = 10')



ESTIMATED QUANTITIES			
ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2560.501	HIGHWAY-RAILROAD GRADE CROSSING SIGNAL SYSTEM (INCLUDES 2 SIGNALS) IN PLACE	SIGNAL SYSTEM	1.

SIGNALS:

1. THE LOCATIONS AT WHICH SIGNALS ARE TO BE PLACED WILL BE DETERMINED AT THE SITE. THOSE INDICATED ON THE PLANS ARE ONLY APPROXIMATE.

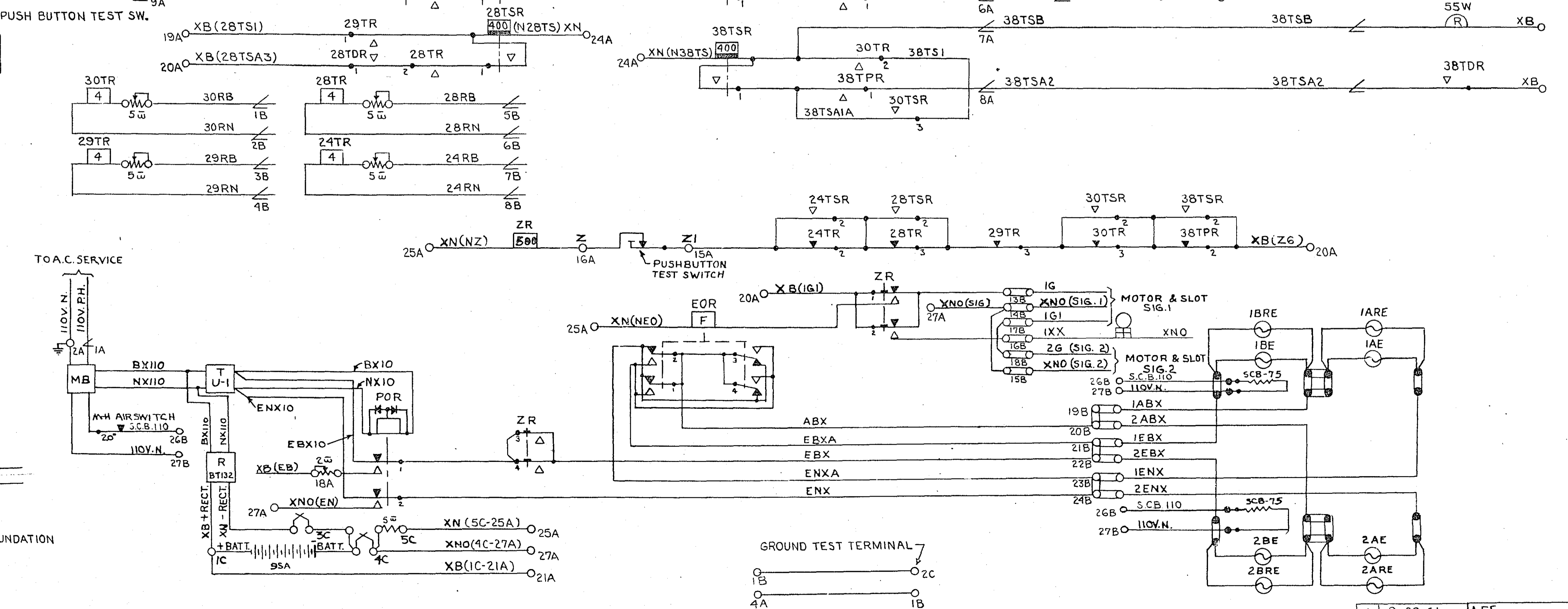
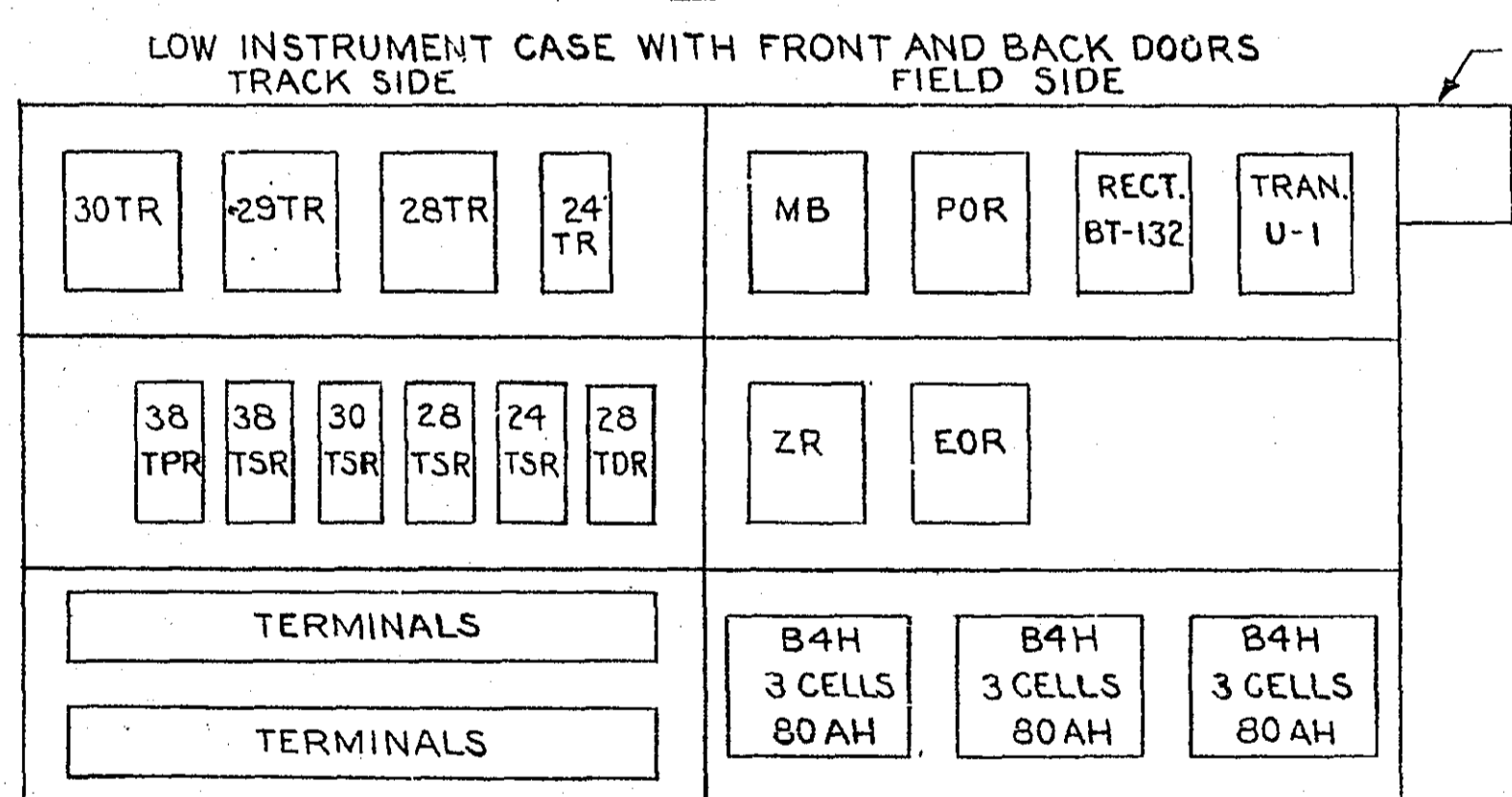
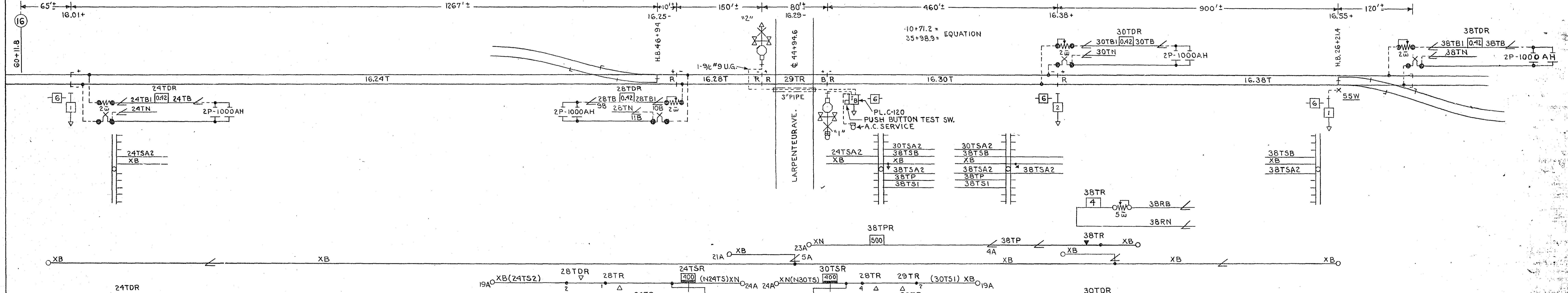
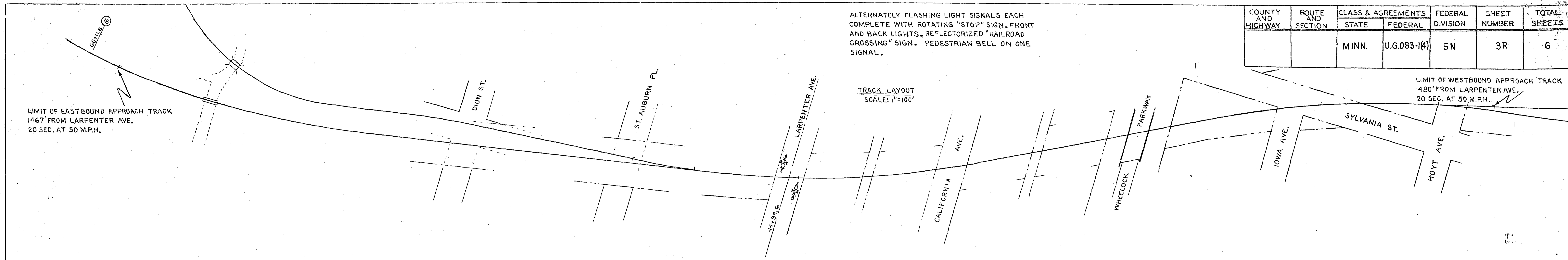
RAILROAD ADVANCE WARNING SIGNS:

1. THESE SIGNS WILL BE F. & I. BY OTHERS, ON A TUBULAR POST IN ACCORDANCE WITH DETAILS SHOWN ON SHEET NO. 4 OF THE PLANS.

IN ST. PAUL
M. ST. P. & S. STE. M. R. R. (500 LINE)
LARPEUTEUR AVE.

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS & AGREEMENTS	FEDERAL DIVISION	SHEET NUMBER	TOTAL SHEETS
		MINN. U.G.083-1(4)	5N	3R	6

ALTERNATELY FLASHING LIGHT SIGNALS EACH COMPLETE WITH ROTATING "STOP" SIGN, FRONT AND BACK LIGHTS, RELECTORIZED "RAILROAD CROSSING" SIGNAL. PEDESTRIAN BELL ON ONE SIGNAL.



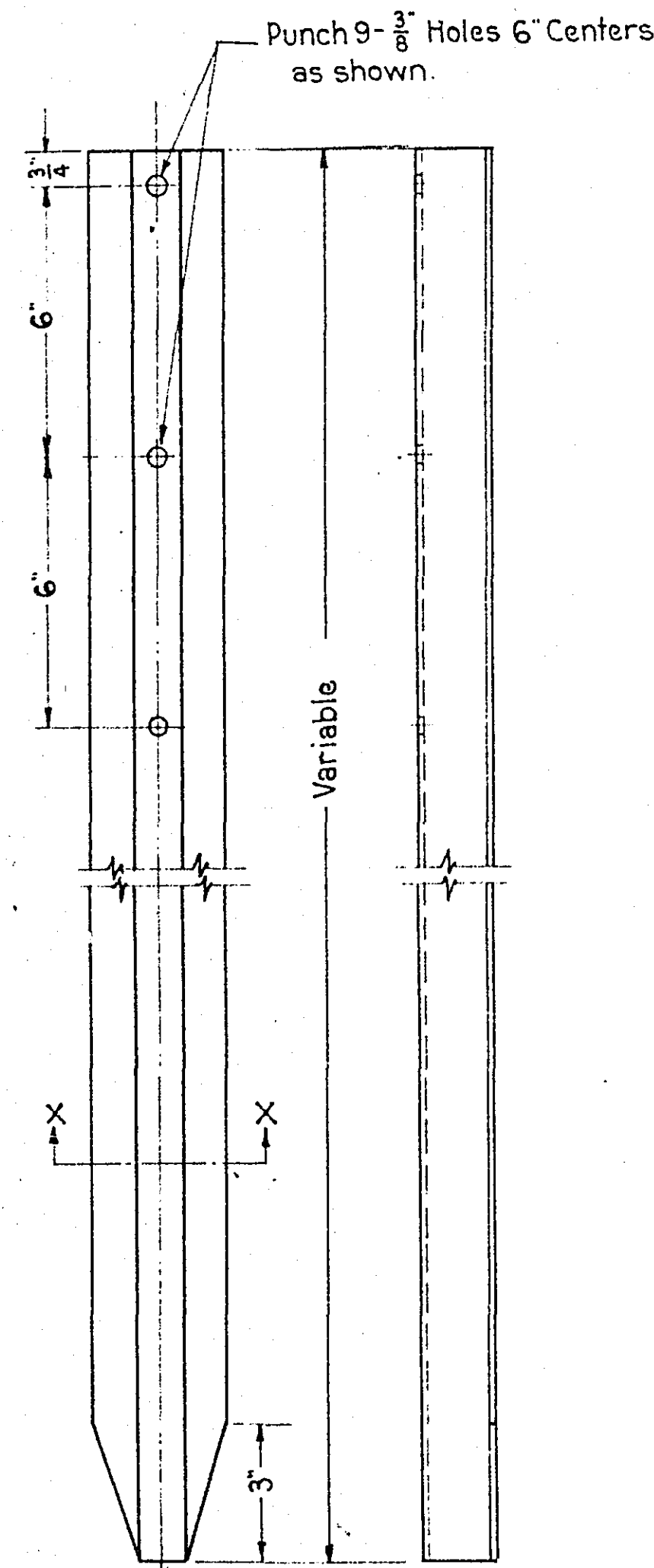
500 LINE R.R.
MINNEAPOLIS, MINN.
CORRECT: DATE 4-21-61
A.S. Keating
ASST. CHIEF ENGINEER
SIGNALS & COM.
APPROVED: DATE 4-21-61
A.S. Keating
CHIEF ENGINEER

- NOMENCLATURE**
- TR - TRACK RELAY
 - TDR - TRAIN DETECTOR RELAY
 - XR - INTERLOCKING RELAY
 - SR - STICK RELAY
 - RWPSR - REV SW REPT'R STICK RELAY
 - TER - TIME ELEMENT RELAY
 - ZR - CONTROL RELAY
 - EOR - FLASHER RELAY
 - POR - POWER OFF RELAY
 - C - SIG. OPERATING MECH. CONDUCTOR
 - ABX, -EBX, -ENX } SIGNAL LAMP CONDUCTORS
 - N - NEGATIVE D.C. ENERGY
 - NO - OPERATING NEG. D.C. ENERGY
 - B - POSITIVE D.C. ENERGY
 - NX10 - A.C. 10 VOLT NEUTRAL
 - BX10 - A.C. 10 VOLT PHASE

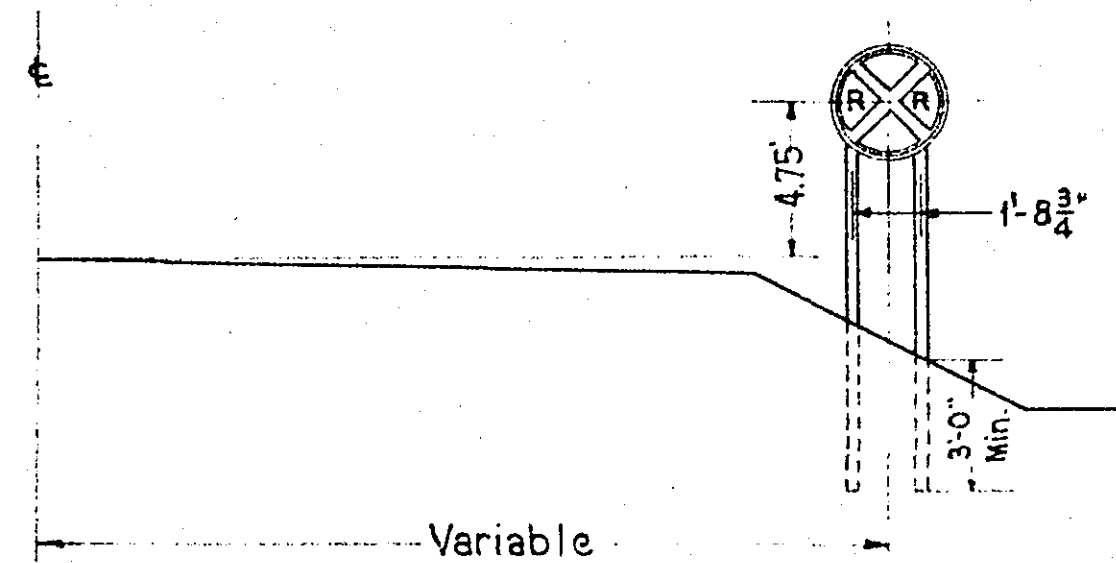
REVISED PER.	DATE	BY	IN SERVICE
9-29-61	A.F.E.	D.G.S.	500 LINE R.R.
M.R.R. & WHS. COM.			HIGHWAY CROSSING SIGNALS
PLAN 9-B-61			LARPELITEUR AVE.
R.M.O.			ST. PAUL, MINN. 6815A
D.G.S.			APRIL 1961 PLAN 31105 FILE SD.C-604

RAILROAD ADVANCE WARNING SIGN

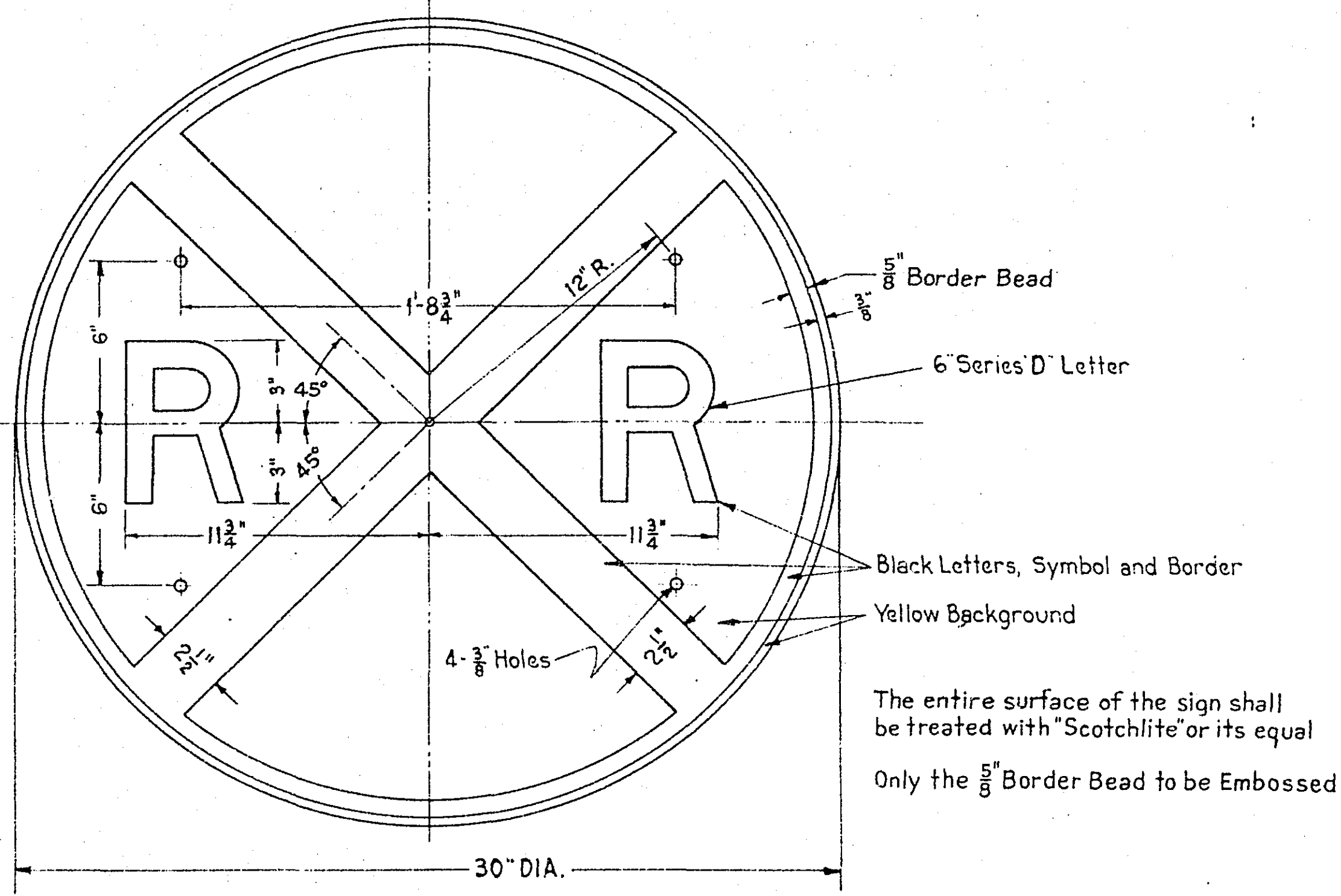
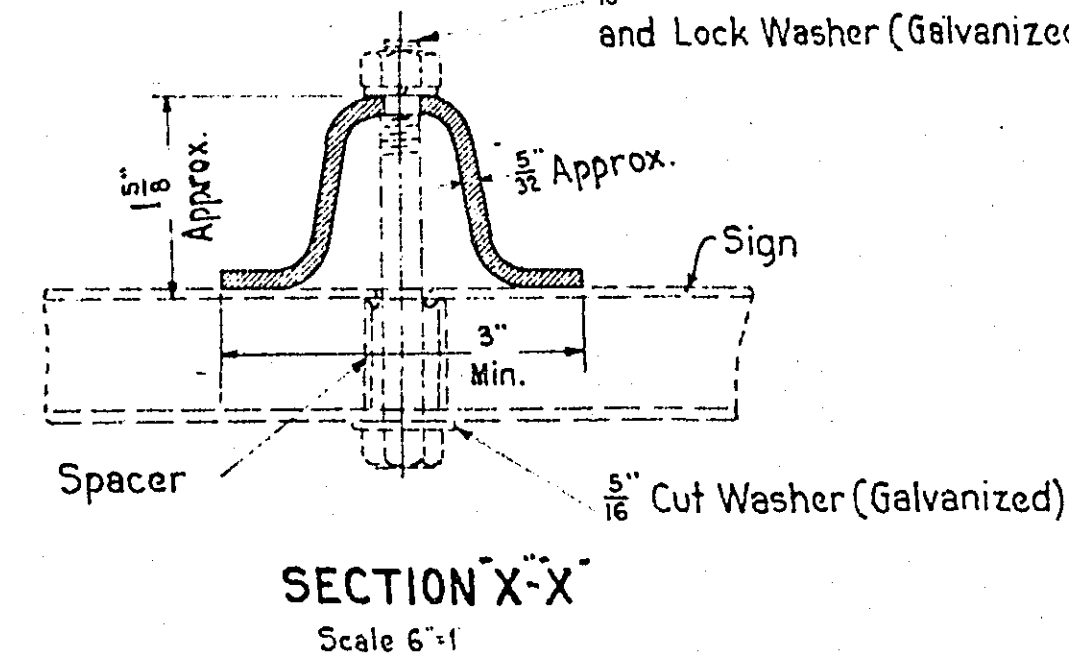
FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5 N	MINN.	UG 083-1(4)		4	6



TYPICAL INSTALLATION FOR RURAL AREA

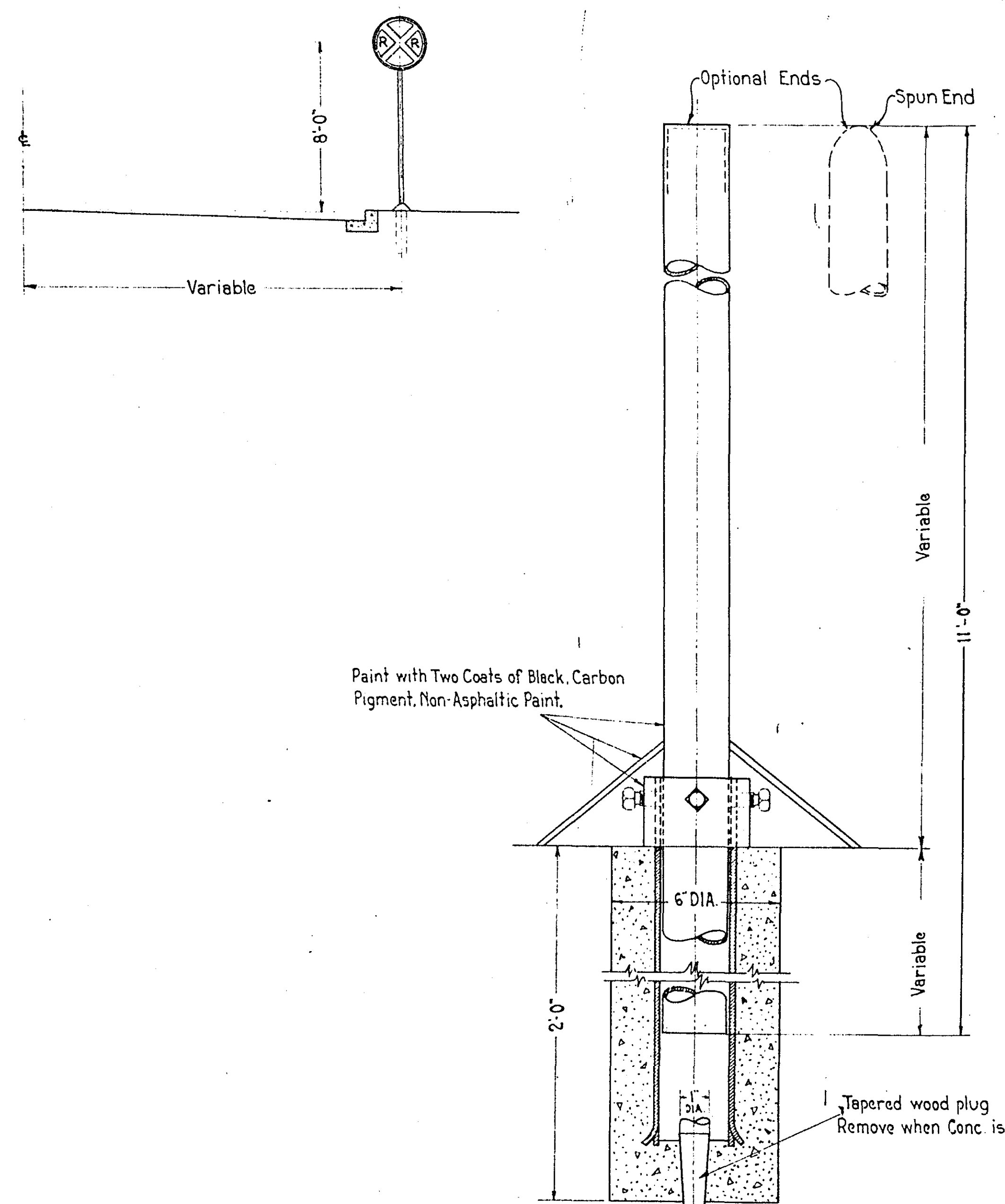


NOTE: This Section or equivalent in strength and adaptability to be used
 $\frac{5}{16}$ " Hex. Hd. Bolt with Hex. Nut and Lock Washer (Galvanized)

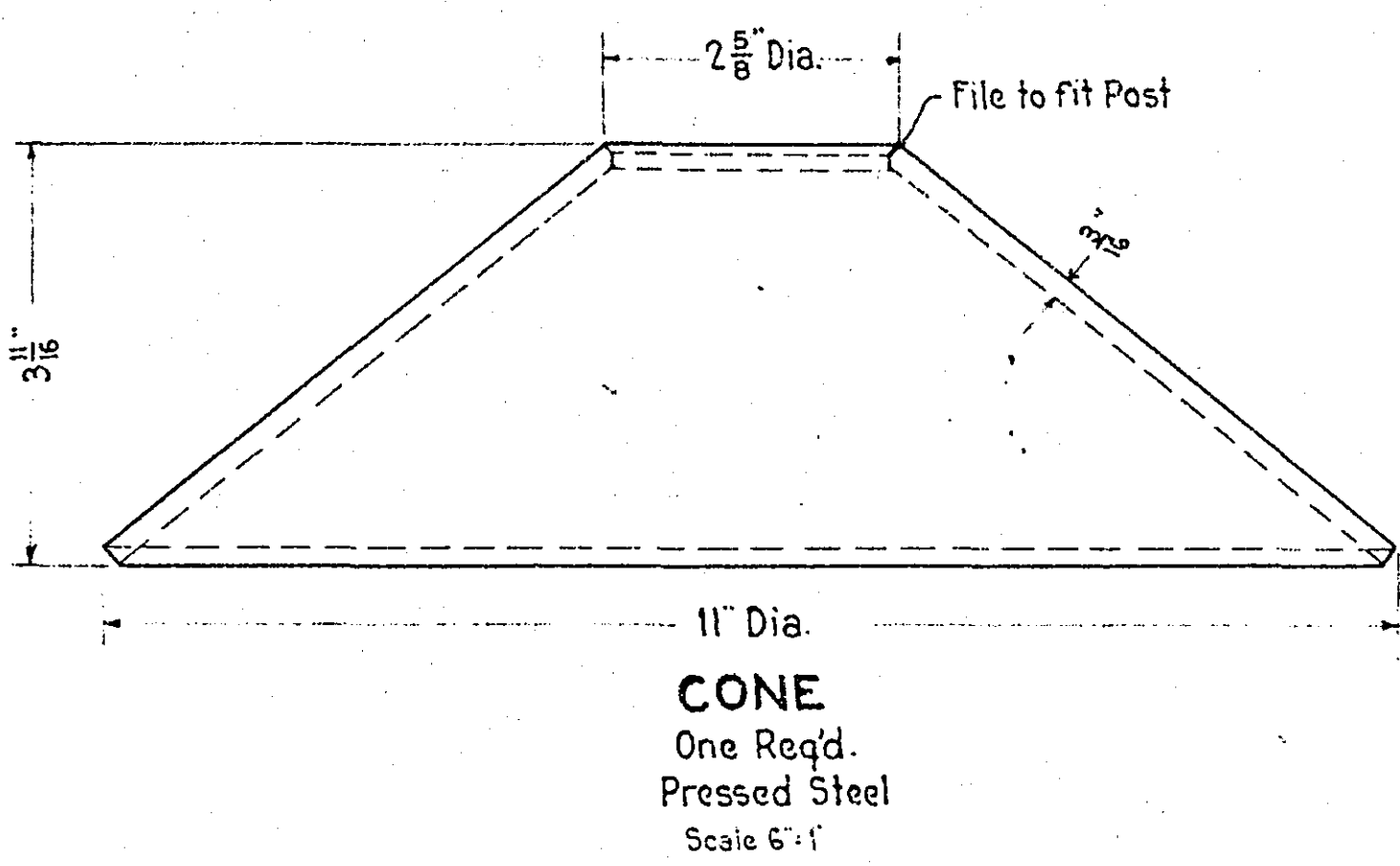


SIGN
 No. 14 U.S. STD. GAUGE METAL

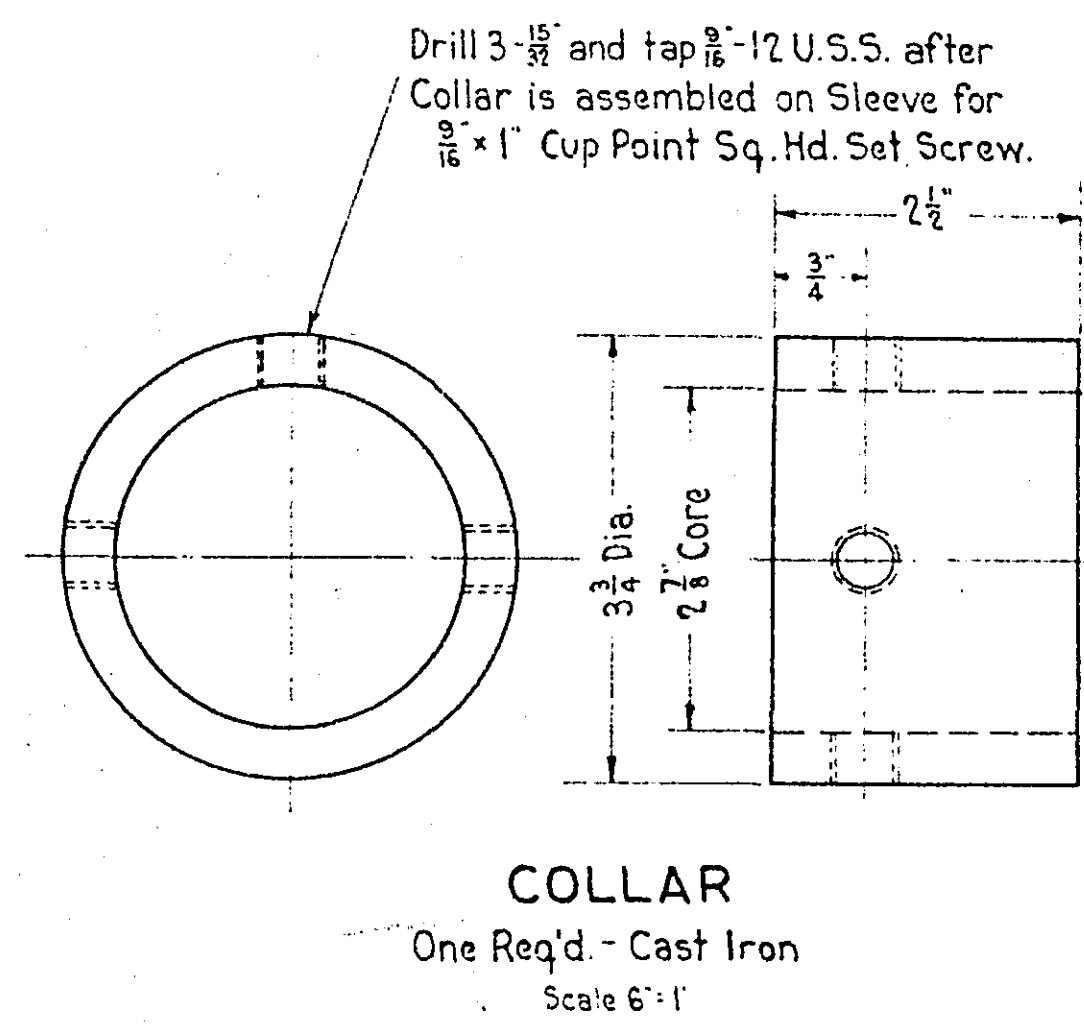
TYPICAL INSTALLATION FOR BUSINESS AND RESIDENTIAL AREA



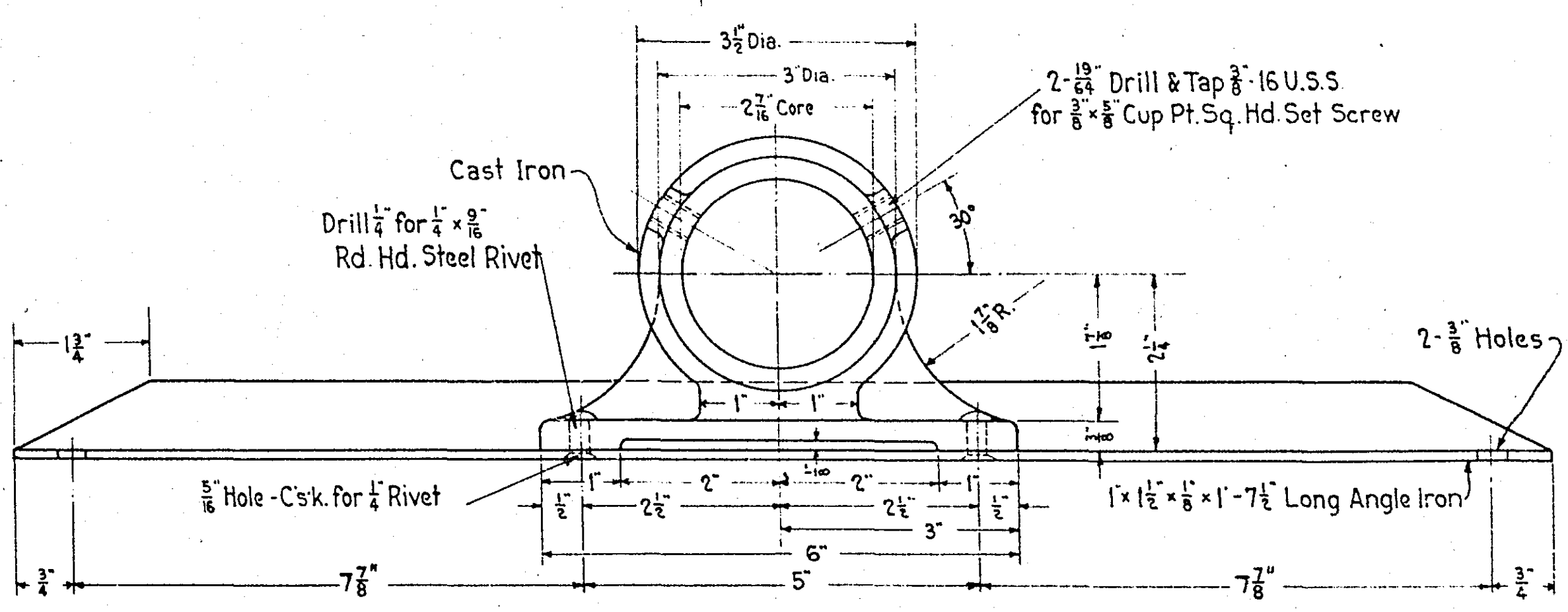
MOUNTED ASSEMBLY
 Scale 3" = 1'



CONE
 One Req'd. - Cast Iron
 Scale 6" = 1'

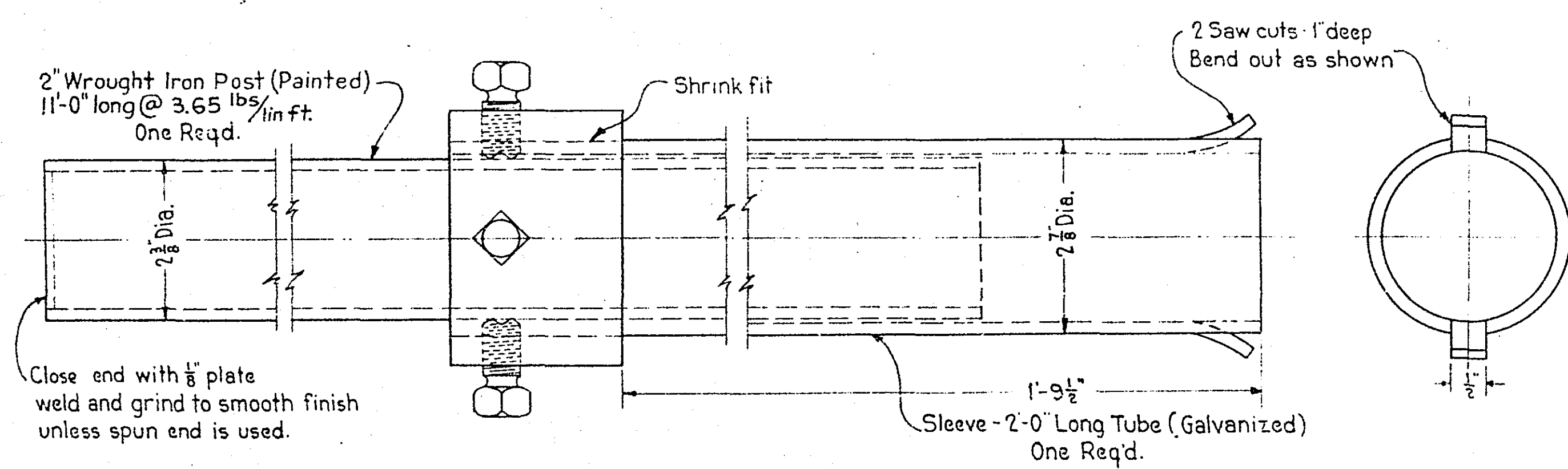


COLLAR
 One Req'd. - Cast Iron
 Scale 6" = 1'



ASSEMBLY OF POST CLAMP & BRACKET
 Two Req'd.

Clamp and Bracket to be painted with Yellow sign enamel for new signs as specified in Section 3572 of the specifications for Highway Construction dated July 1st 1947.
 Scale 6" = 1'



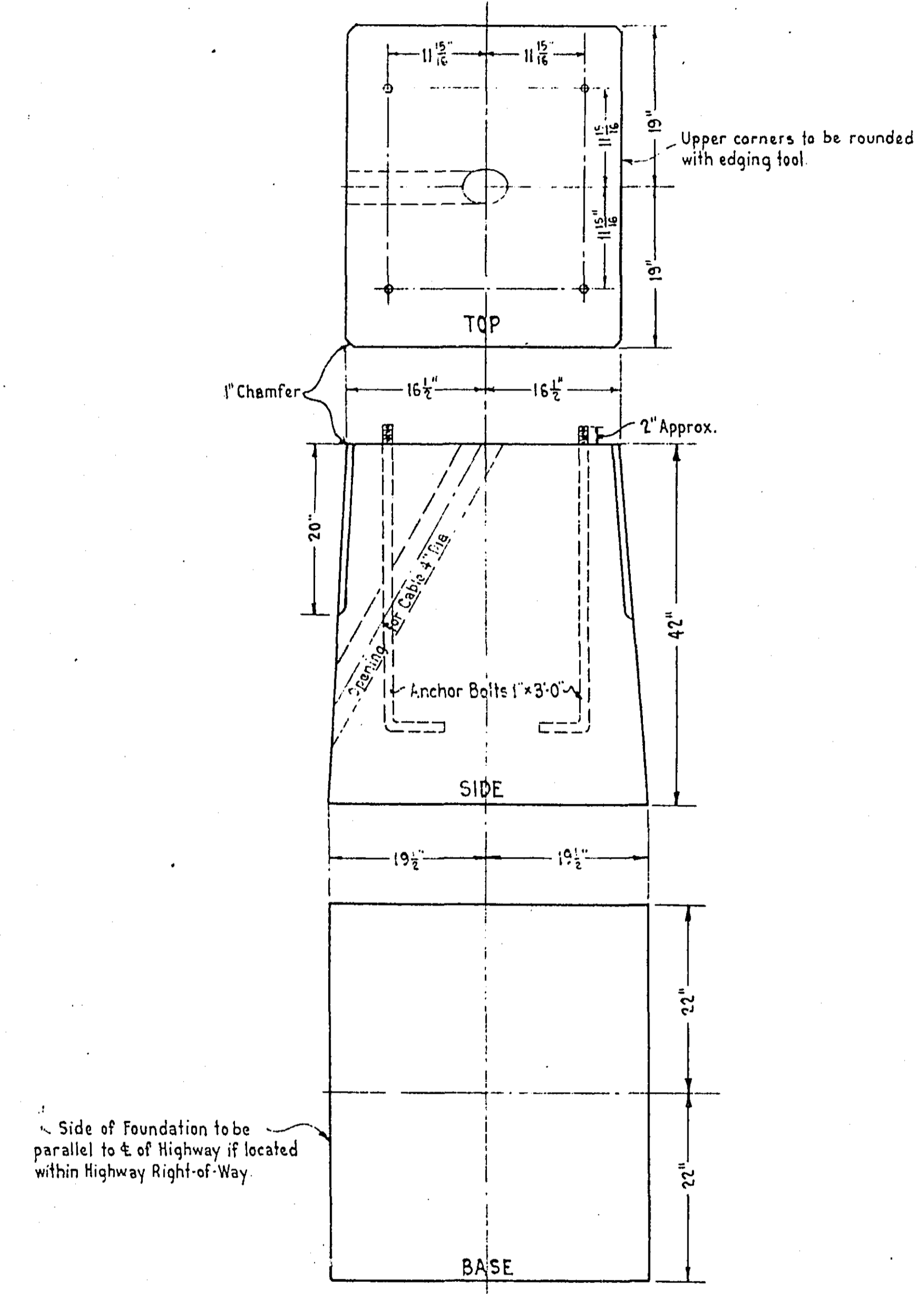
ASSEMBLY OF SLEEVE & POST
 Scale 6" = 1'

STATE OF MINNESOTA
 DEPARTMENT OF HIGHWAYS
 DETAILS OF APPROVED
 RAILROAD ADVANCE WARNING SIGN

Recommended for Approval *A. T. Burns*
 ENGINEER OF PLANS & SURVEYS

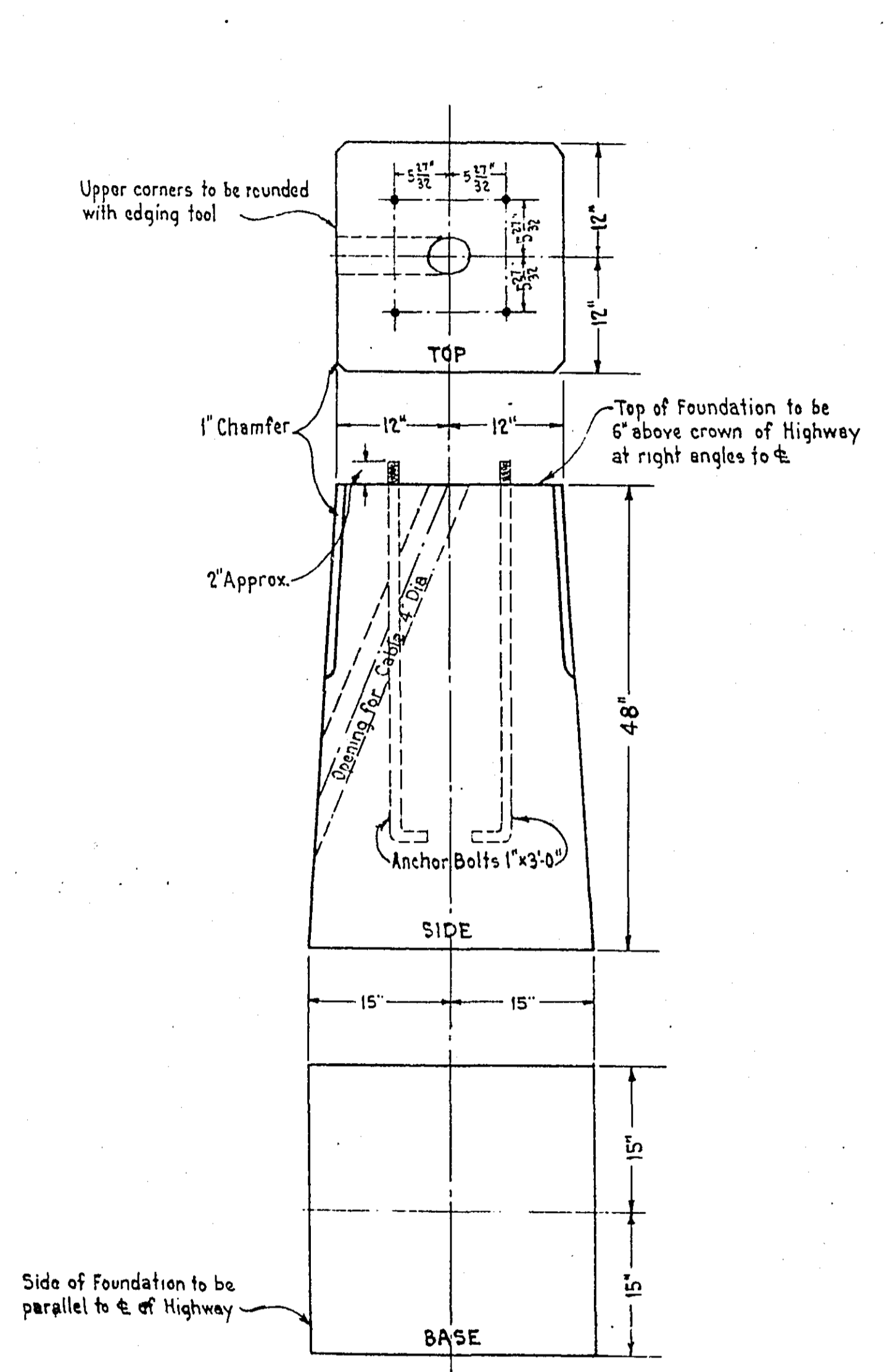
Approved *11/18/58* *John H. Swenberg*
 CHIEF ENGINEER

INSTRUMENT CASE FOUNDATION

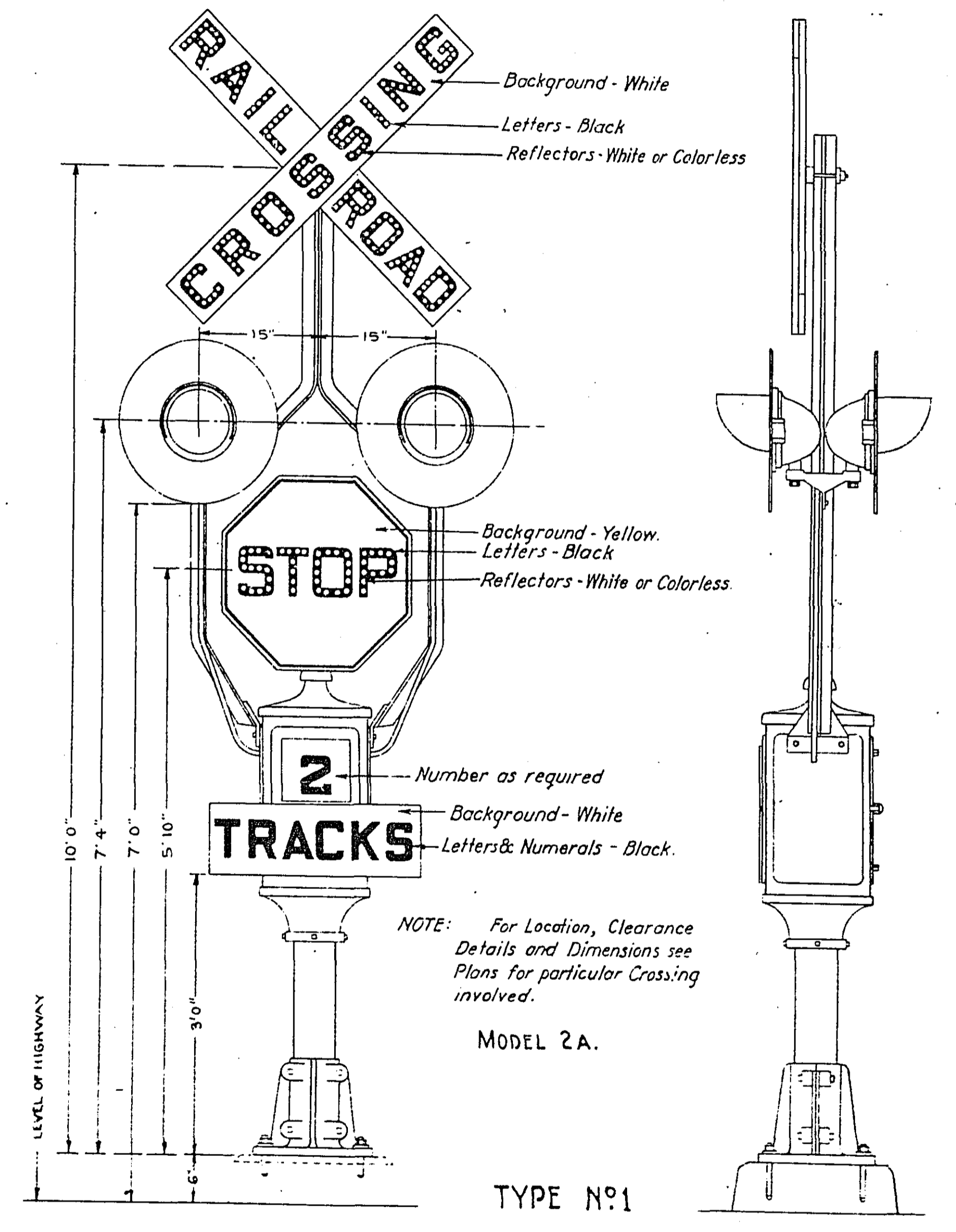
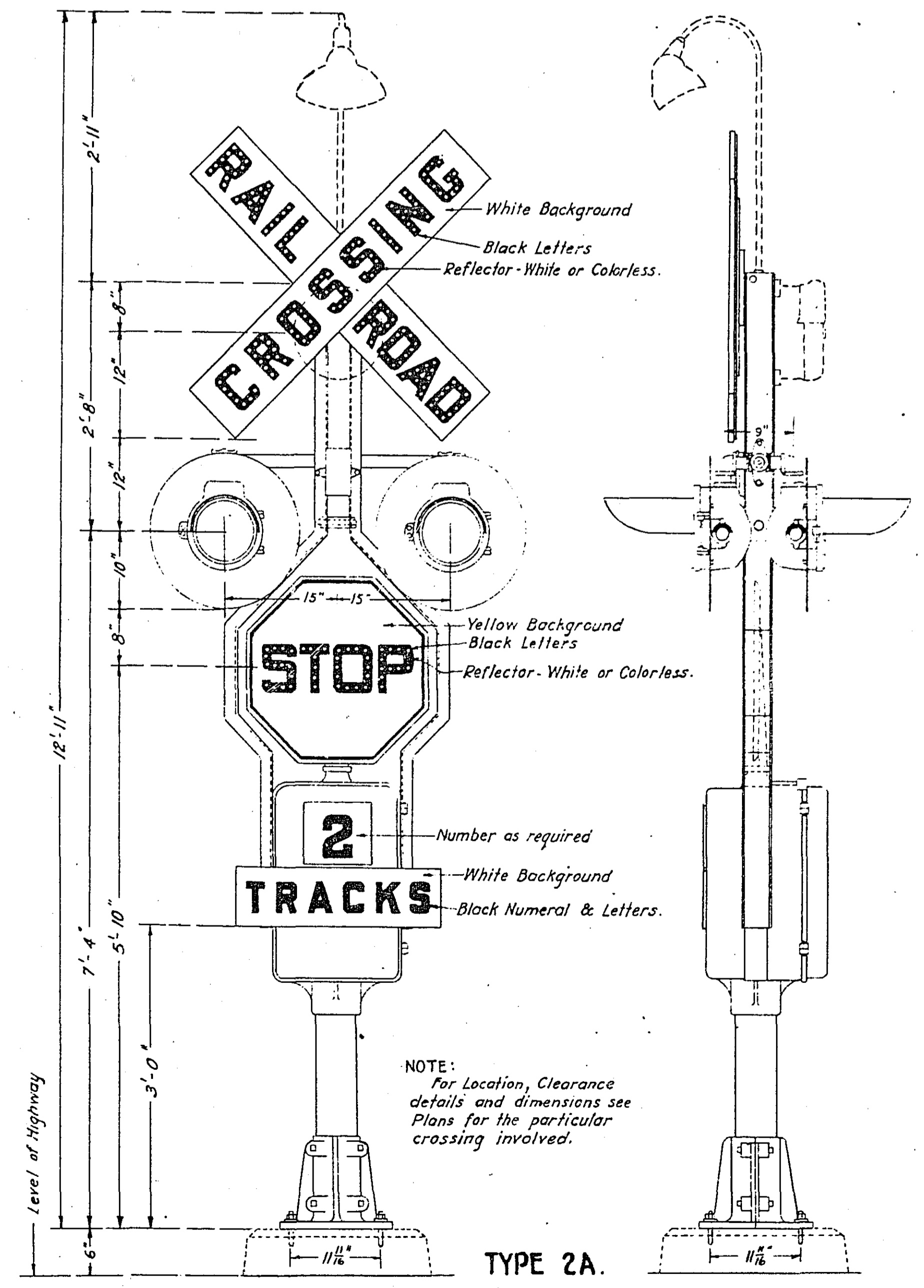
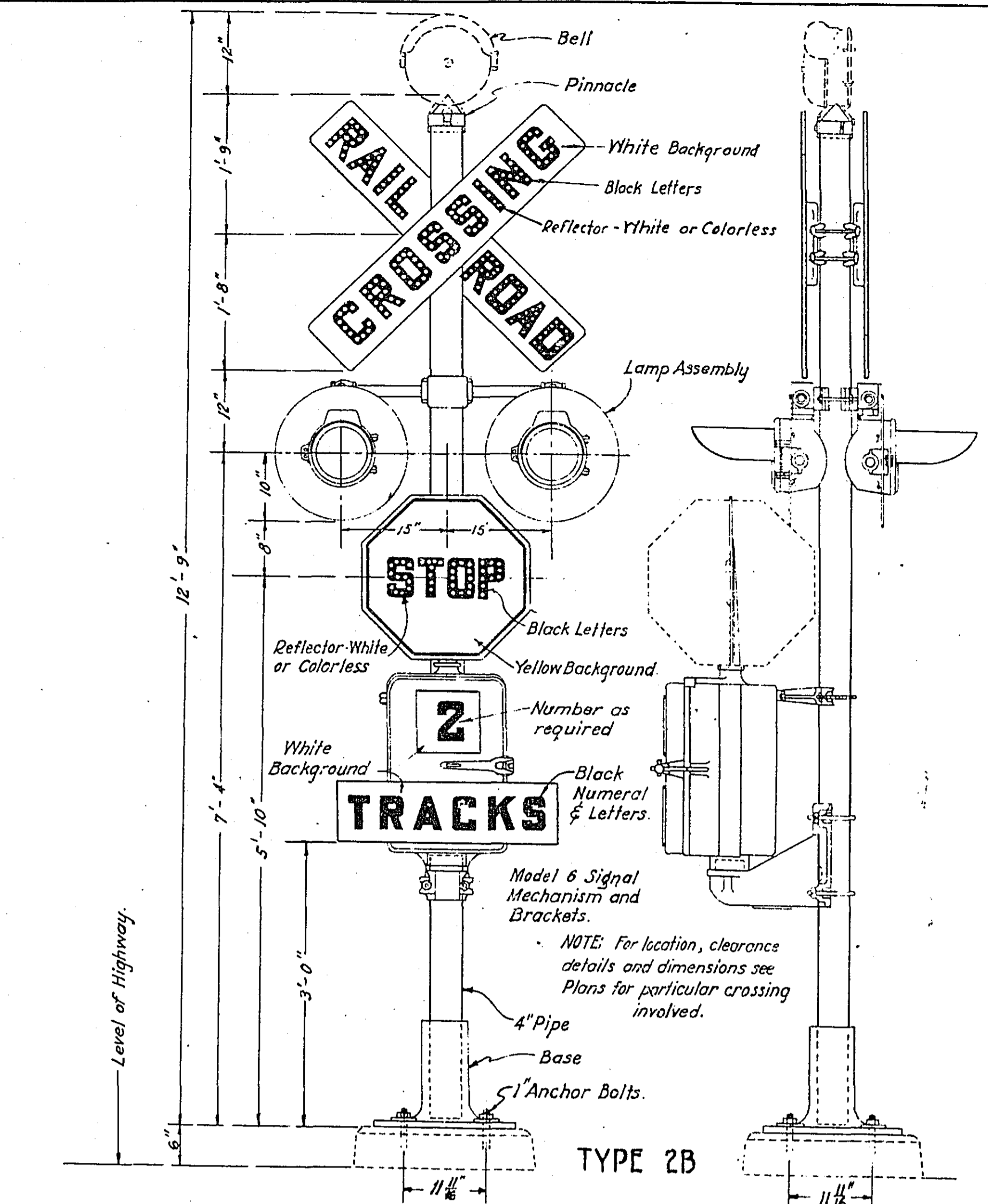


TO BE CONSTRUCTED WITH GRADE "A" CONCRETE. Proportions to be 1:2:3 Approx. by Volume.

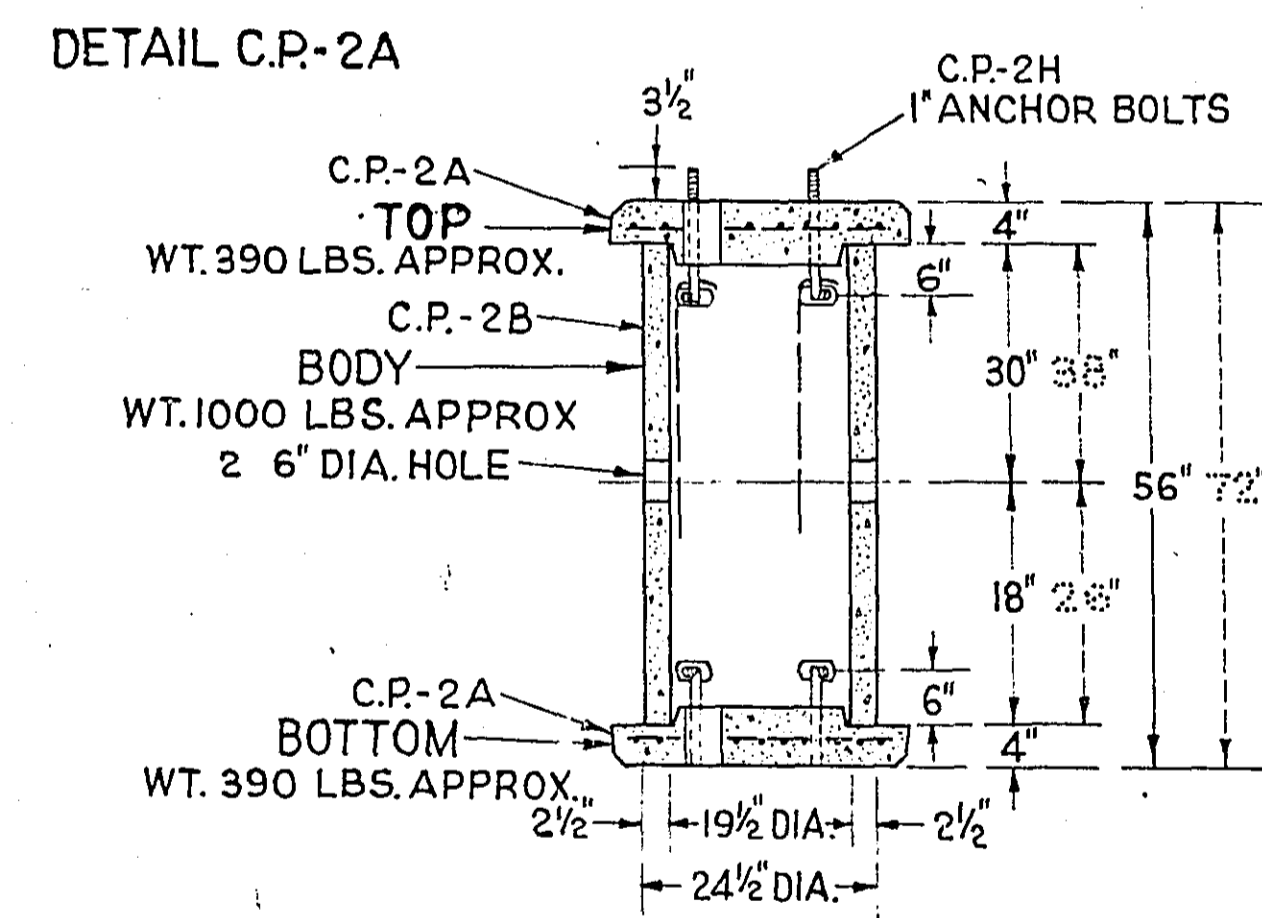
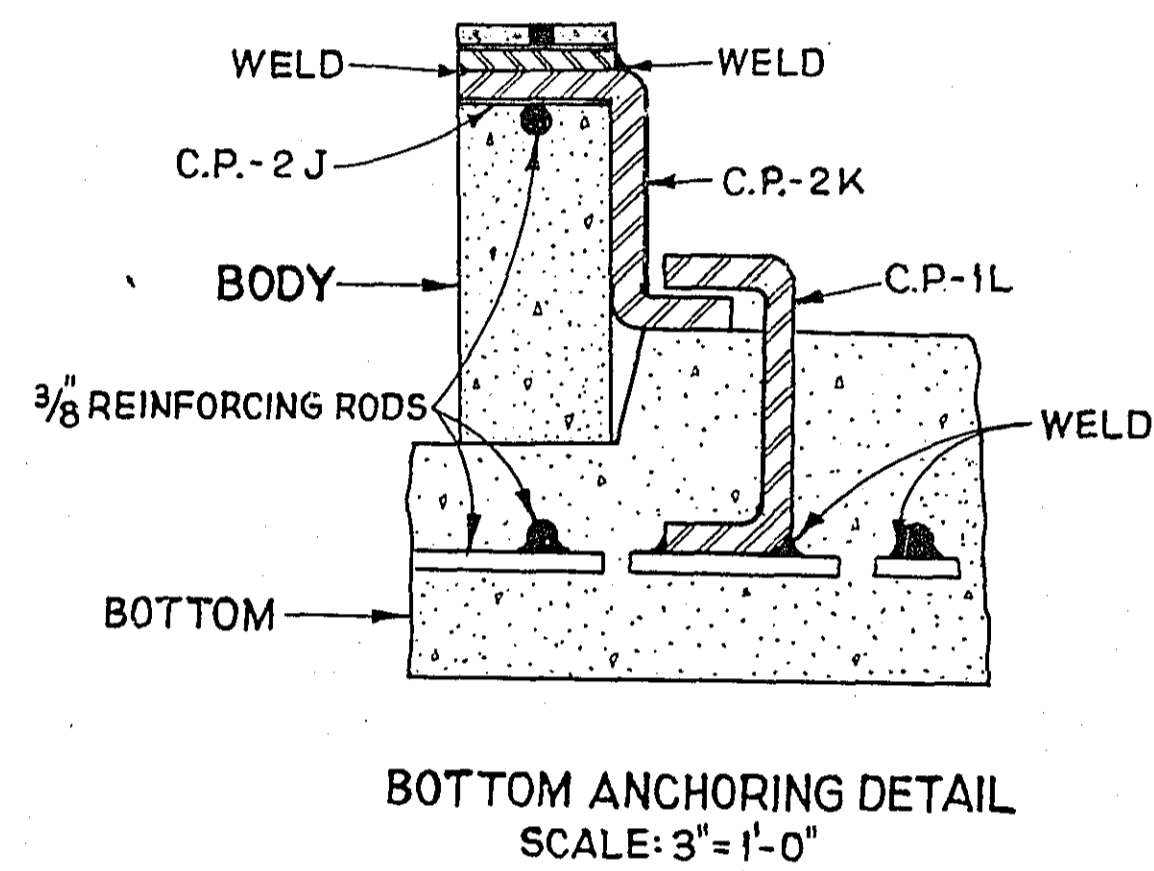
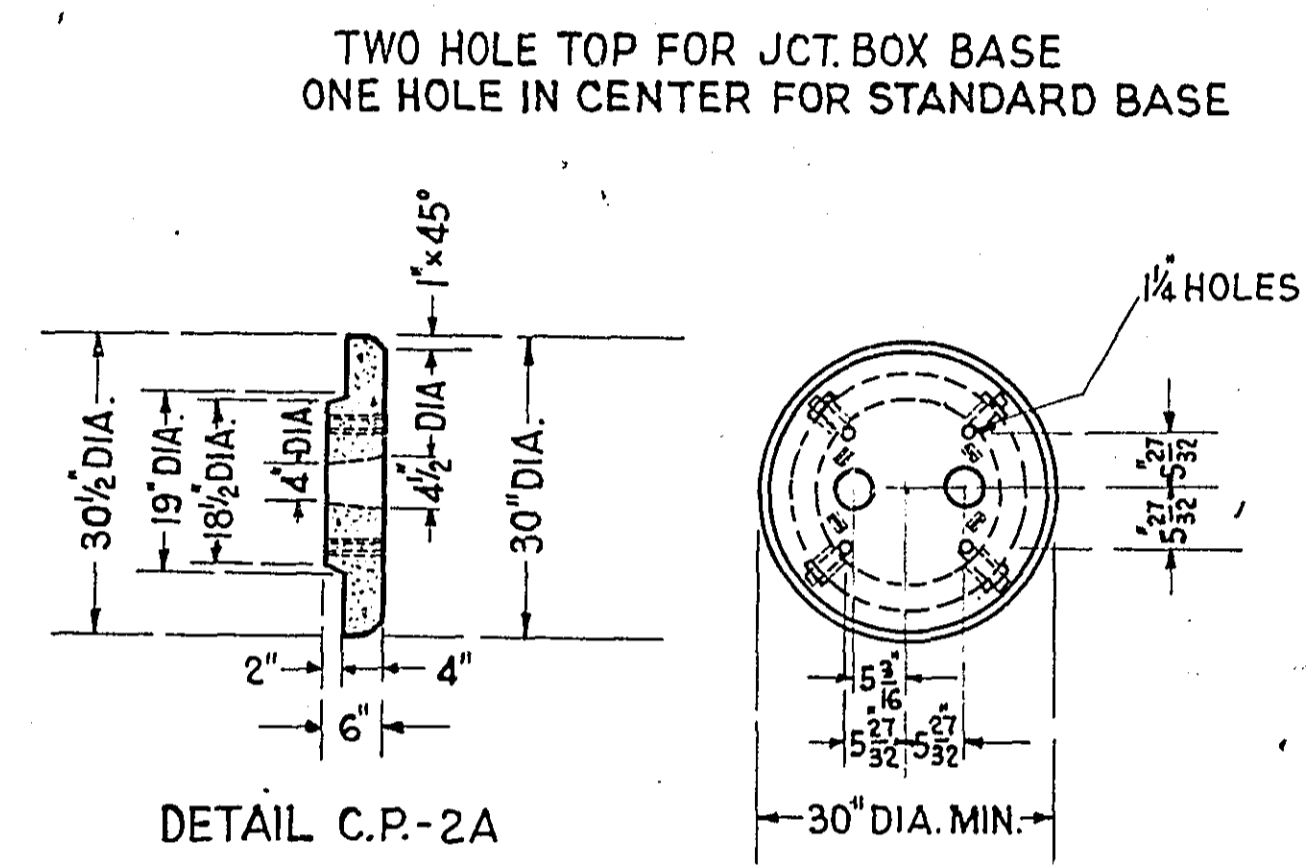
SIGNAL FOUNDATION



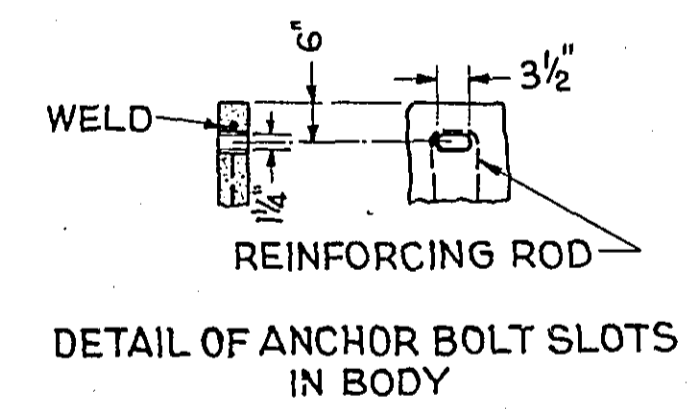
TO BE CONSTRUCTED WITH GRADE "A" CONCRETE. Proportions to be 1:2:3 Approx. by Volume.



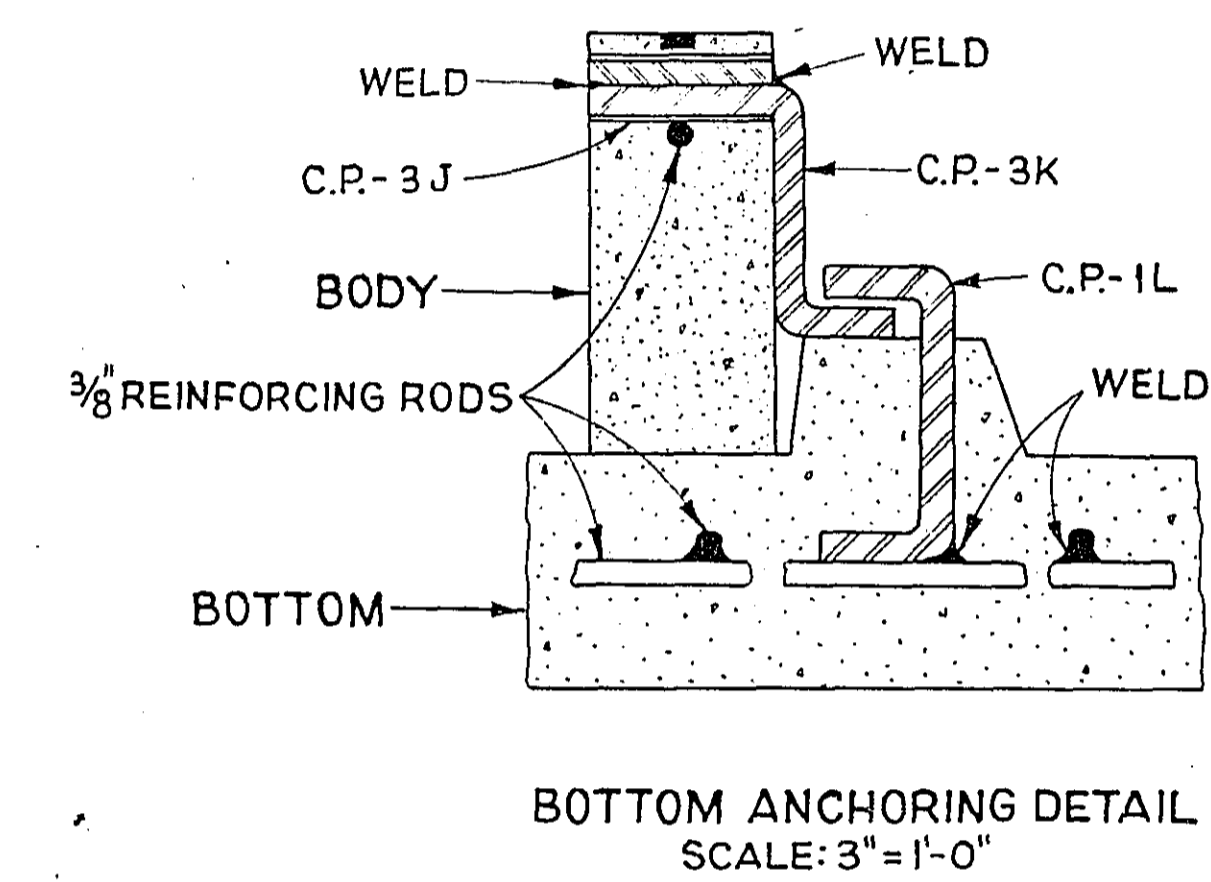
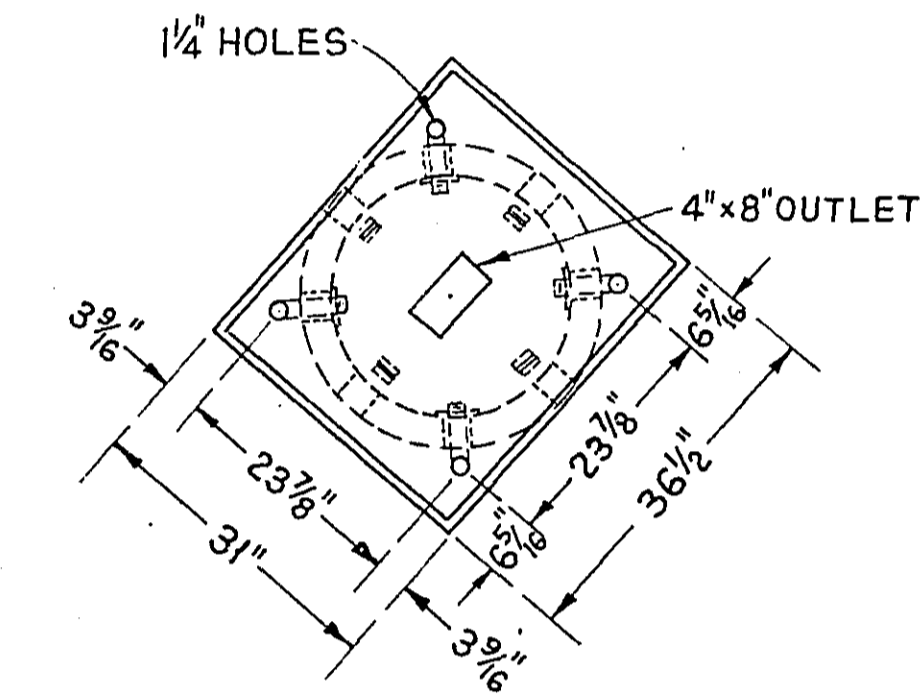
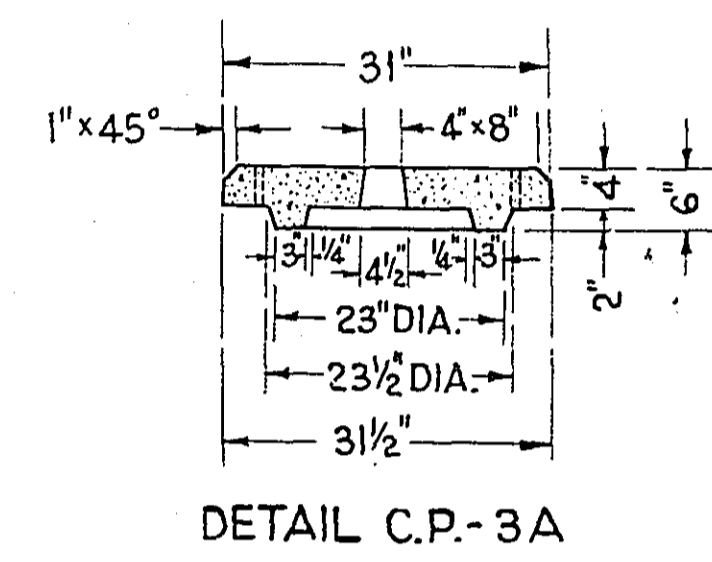
SIGNAL FOUNDATION



NOTE:
TOP AND BOTTOM ARE INTERCHANGEABLE.
BODY IS REVERSIBLE END FOR END.
CONCRETE IS REINFORCED WITH 3/8" REINFORCING RODS AND WIRE MESH.



SIGNAL CASE FOUNDATION



NOTE:
TOP AND BOTTOM ARE INTERCHANGEABLE
BODY IS REVERSIBLE END FOR END.
CONCRETE IS REINFORCED WITH 3/8" REINFORCING RODS AND WIRE MESH.

