

DELAWARE COUNTY, OHIO

OLENTANGY RIVER-POWELL ROAD INTERCEPTOR SANITARY SEWER

CONTRACT "S 73-2"

COUNTY STAFF

FRED L. STULTS
 DOROTHY CONANT
 HENRY E. SHAW
 DAVID R. THOMAS
 MADGE CONKLIN
 TOM ELLIOT
 GARY W. GILBERT

COUNTY ENGINEER
 COUNTY RECORDER
 PROSECUTING ATTORNEY
 COUNTY AUDITOR
 COUNTY TREASURER
 DIRECTOR PLANNING
 COMMISSION
 ASST. SANITARY ENGINEER

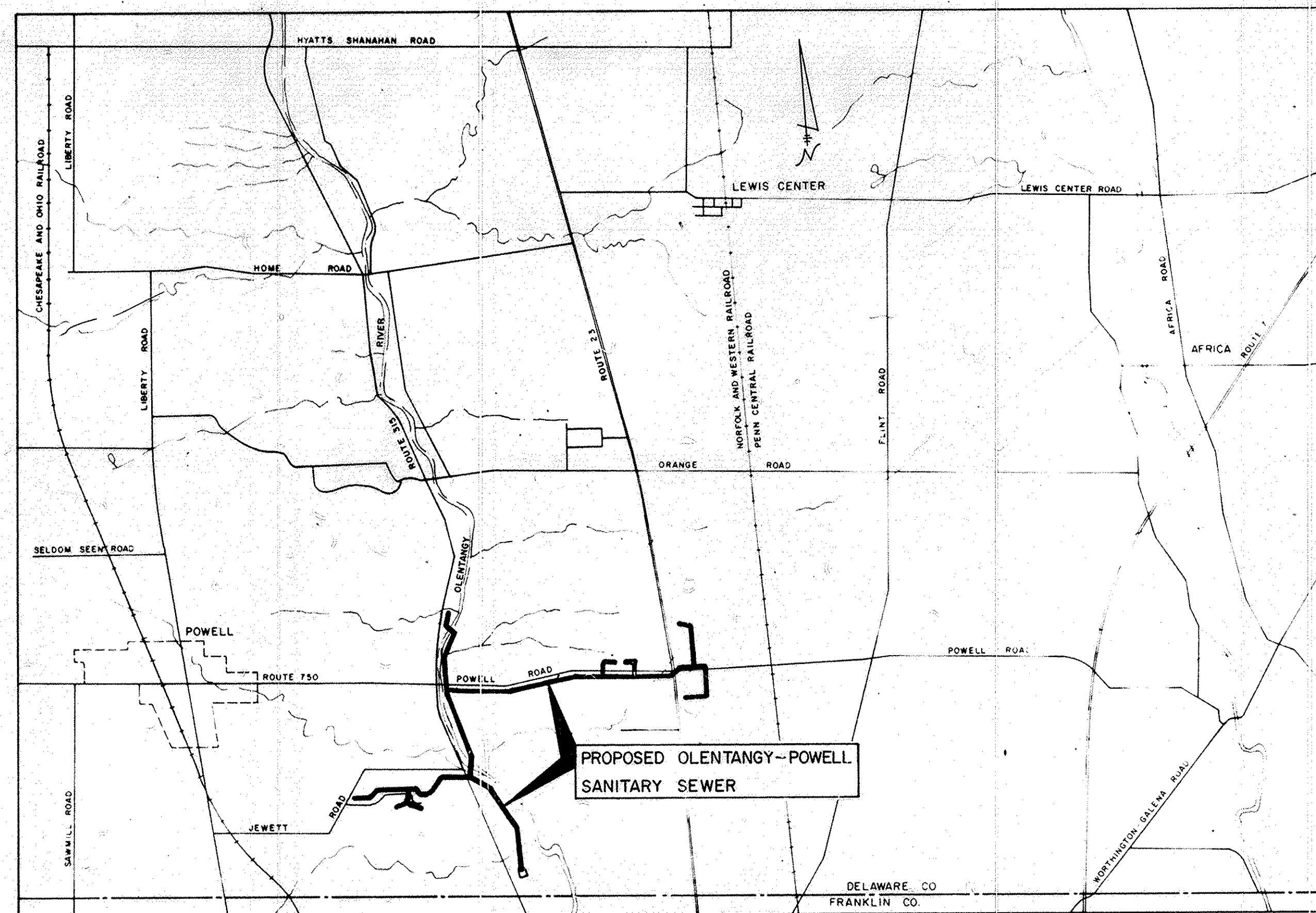
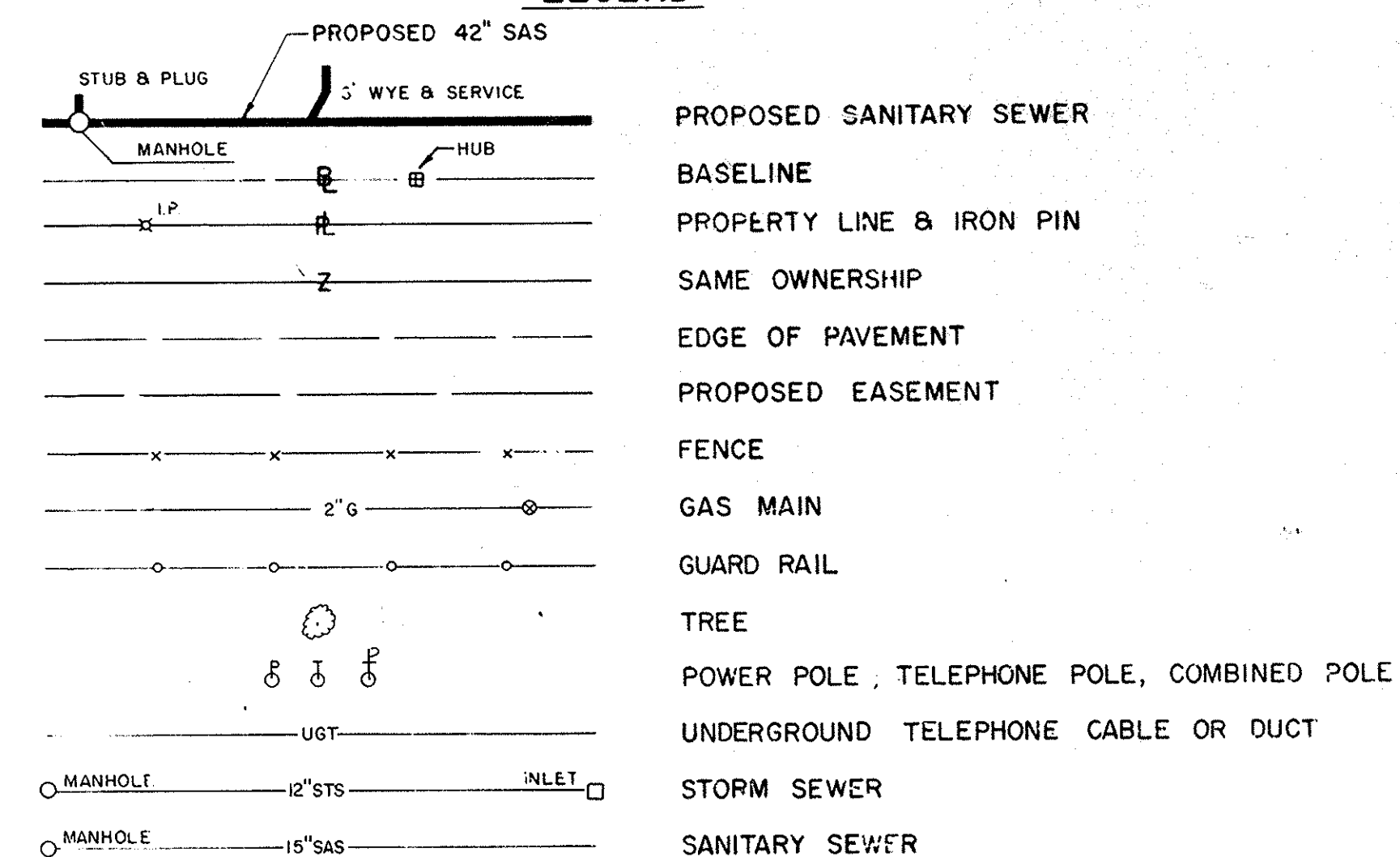
BOARD OF COUNTY COMMISSIONERS

DEAN MILLER
 KENNETH REED
 JAMES WHITNEY

INDEX

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LEGEND



VICINITY MAP
 Scale 1" = 3000'

BURGESS & NIPLE, LIMITED
 CONSULTING ENGINEERS

COLUMBUS, OHIO
 REVISED SEPTEMBER 1974
 REVISED APRIL 1975
 REVISED SEPTEMBER 1975
 REVISED MAY 1976
 REVISED AUGUST 1977

APPROVED THIS 3rd DAY OF JULY, 1973

Fred L. Stults
 Fred L. Stults, Delaware County Sanitary Engineer

2/27/80

PLANS PREPARED BY *Harry Dock*
 REGISTRATION NO. 33162

PLAN NOTES

- SUBSURFACE CONDITIONS.** It is the obligation and responsibility of the Contractor to make his own investigations of subsurface conditions prior to submitting his proposal. Subsurface investigations were made for design and estimating purposes by the Engineers. Results of the subsurface investigations are available for the Contractor's inspection at the Engineers Office in Columbus, Ohio. Said subsurface investigations are incomplete, are not a part of the contract documents, except to the extent that the results thereof are specifically shown on the plans or included in the specifications, and are not warranted to show the actual subsurface conditions. The Contractor agrees that he will make no claim against the Owner or the Engineer, if, in carrying out the work, he finds that the actual subsurface conditions encountered do not conform to those indicated by said borings, test excavations, and other subsurface investigations.
- UTILITIES AND STRUCTURES SHOWN ON THE PLANS.** The location of utilities and structures, both surface and subsurface, are shown on the plans from data available at time of survey and are not necessarily complete or correct. The exact location and protection of utilities and structures are the responsibility of the Contractor. During construction the Contractor shall use due diligence in protecting from damage all existing utilities and structures whether shown on the plans or not. If damage is caused, the Contractor shall be responsible for the repair or restoration of same to the satisfaction of the Engineers and for any resulting contingent damage.
- PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS.** The Contractor shall exercise extreme caution to preserve all corner stone, iron pins, concrete monuments, or any other type of land monument. He shall have all land monuments in the proximity of the work referenced. Then if any of the land monuments are destroyed or damaged, he shall have them replaced by a surveyor and shall furnish a certification by a registered surveyor that the monuments have been restored.
- MANHOLES.** Mound around all manholes which project above ground surface, not greater than 4:1 slope.
- CONNECTIONS.** Roof drains, foundation drains, and all other clean water connections to the sanitary sewer system are prohibited on this project.
- SAWING CONCRETE PAVEMENT.** Where necessary to disturb existing concrete pavements or drives, the pavement shall be saw cut in neat, straight lines. The depth of saw cut shall be at least 2". Cost of saw cutting shall be included in the price bid per lineal foot of sewer pipe.
- GRANULAR BACKFILL.** Granular backfill is subject to the station limits specified on the plans.
- GRADING AND SEEDING.** Grading and seeding is subject to the station limits shown on the plans.
- WYE BRANCHES.** Sanitary sewer wye branches shall be field located during construction.
- EROSION CONTROL.** The entire project is subject to measures of Erosion Control and these measures shall be coordinated with the permanent grading and seeding work.
- TREES.** 1) Trees marked on the plans with an **X** may be removed; 2) All other trees less than 6 inches caliper may be removed, unless otherwise noted; 3) All other trees - 6 inches caliper or greater shall not be removed, unless written approval is obtained from the Engineer; 4) The cost for the above shall be included in the unit price bid per lineal foot of sewer pipe.
- MANHOLE STEPS.** Manhole steps shall be New Jersey Aluminum Co. 8-1-10, Alcoa, or equal.
- MANHOLE FRAMES AND COVERS.** Manhole frames and covers shall be Neenah R-1762, East Jordan, or equal.
- WATERTIGHT MANHOLE FRAMES AND COVERS.** Watertight manhole frames and covers shall be Neenah R-1916-C, East Jordan, or equal. Manholes A, B, C, D, E, G, H, I, J, K, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, and 52 shall be provided with watertight frames and covers.
- SOLID COVERS.** Manholes 36, 37, 40, 41, 43 and 45 shall be provided with solid covers.
- MANHOLE VENT.** Manholes A, H, K, P, 30 and 34 shall be provided with a manhole vent as shown on Detail Sheet.
- MANHOLE MARKERS - MANHOLE NO. A, B, C AND D.**

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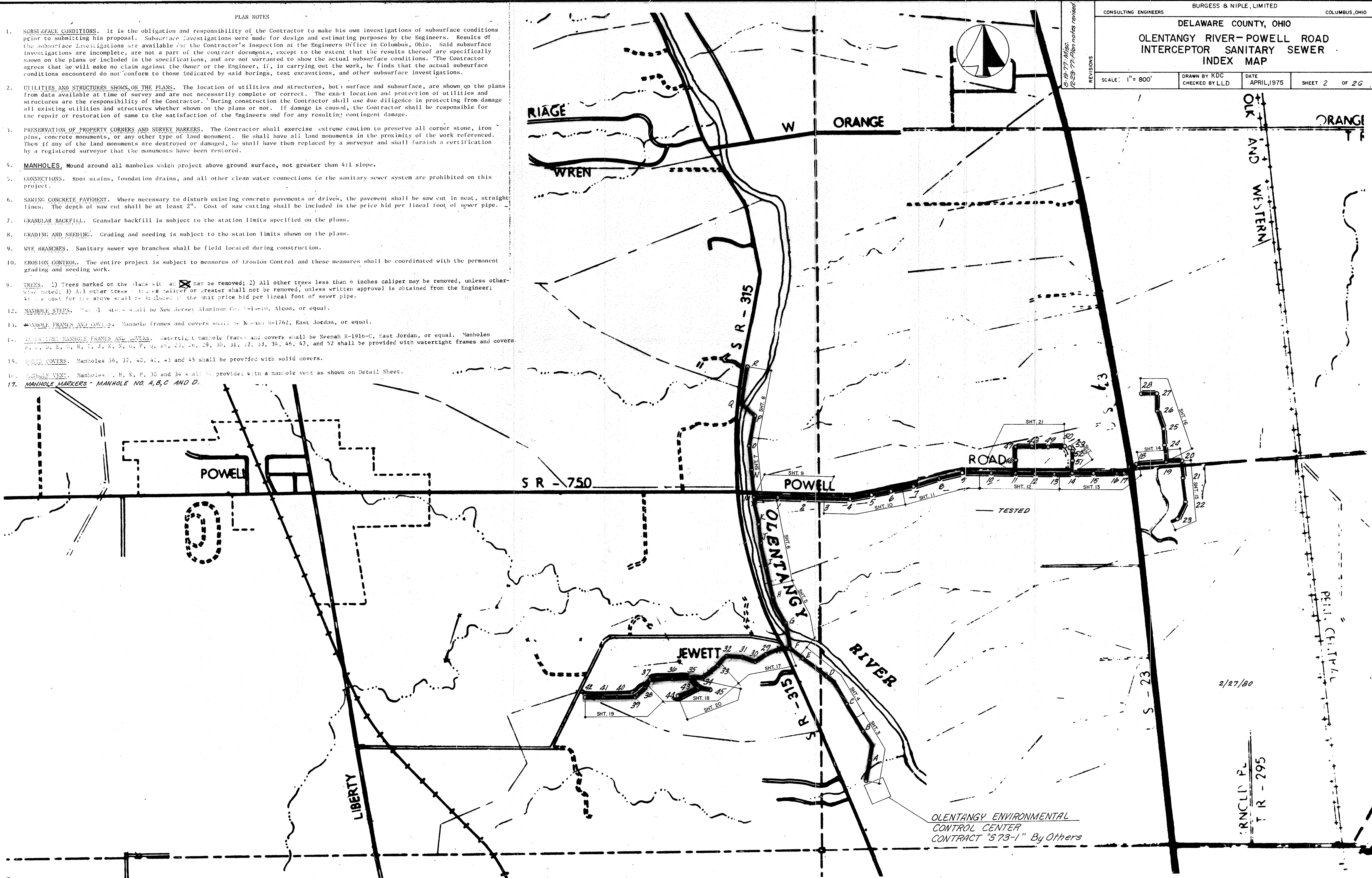
DELAWARE COUNTY, OHIO

OLENTANGY RIVER- POWELL ROAD INTERCEPTOR SANITARY SEWER INDEX MAP

SCALE: 1" = 800' DRAWN BY KDC CHECKED BY L.L.D. DATE APRIL, 1975 SHEET 2 OF 26

REVISIONS

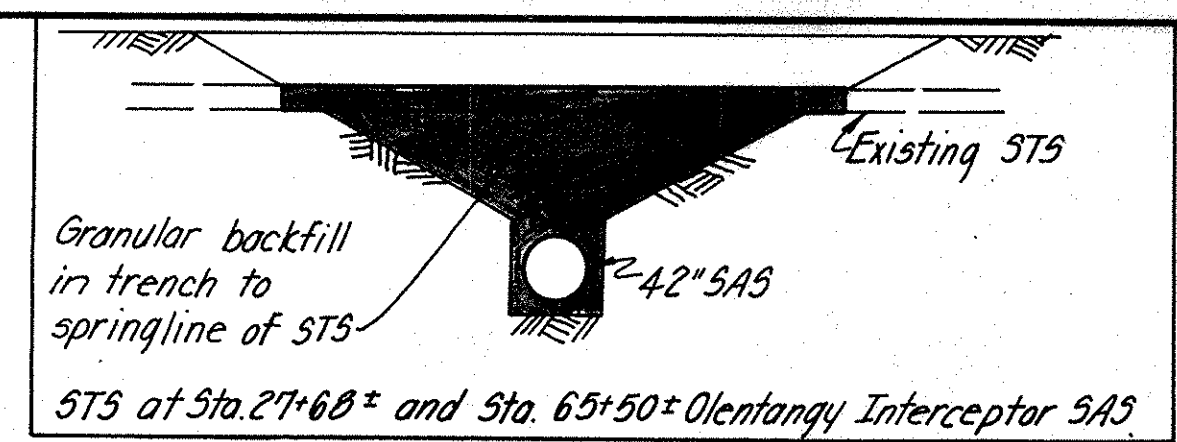
15-19-77 Misc. 12-29-77 (Plan notes revised)



CONSULTING ENGINEERS **BURGESS & NIPLE, LIMITED** COLUMBUS, OHIO

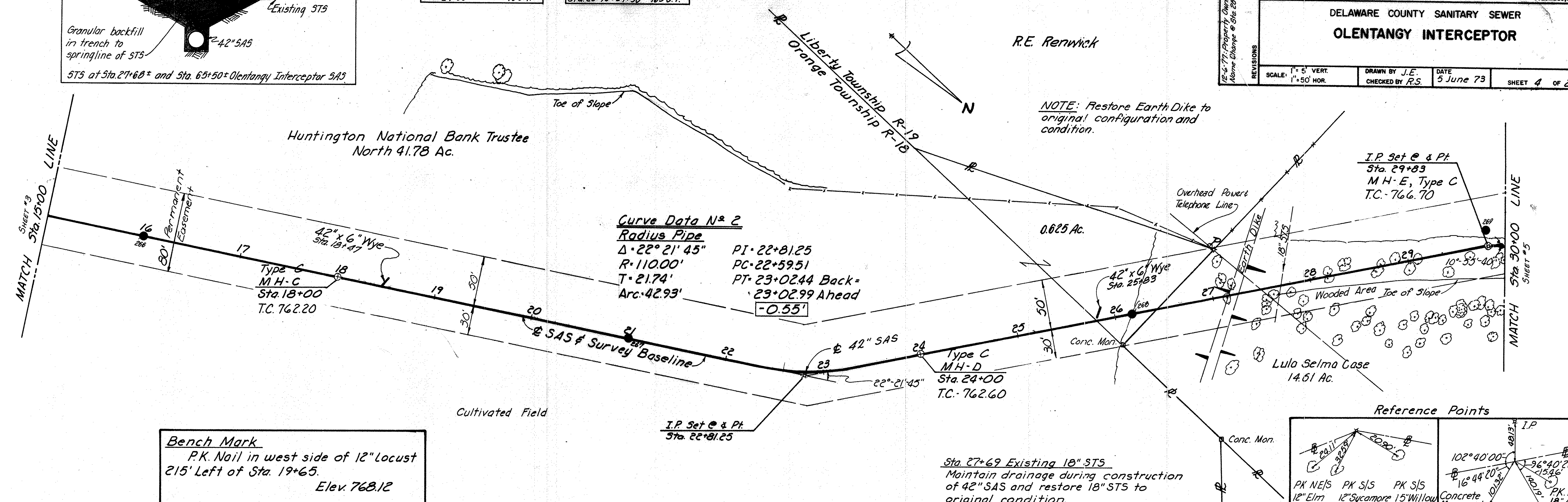
DELAWARE COUNTY SANITARY SEWER
OLENTANGY INTERCEPTOR

REVISIONS: SCALE: 1" = 5' VERT. 1" = 50' HOR. DRAWN BY J.E. DATE 5 June 73 SHEET 4 of 26 CHECKED BY R.S.



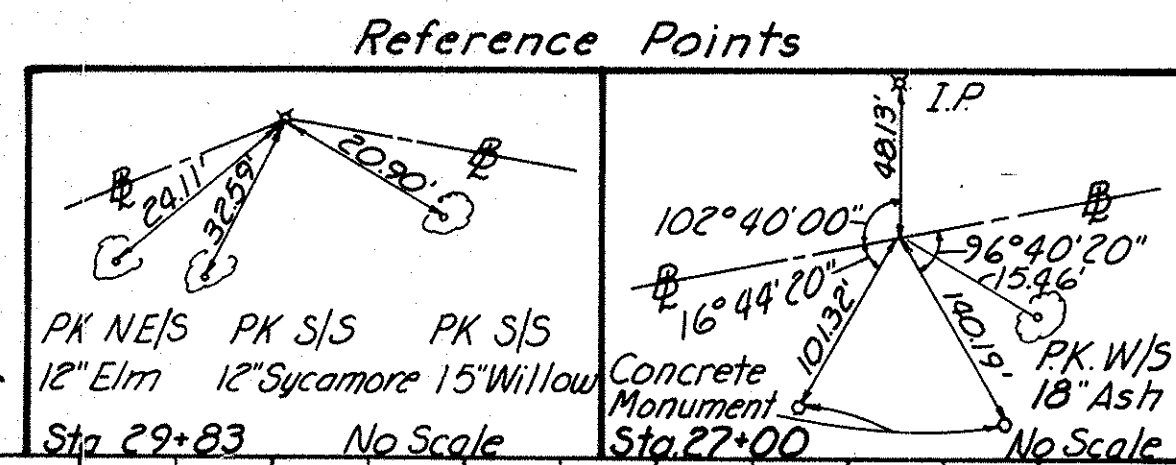
GRAUULAR BACKFILL
Sta. 27+60 40 C.Y.

COMPACTED BACKFILL
Sta. 26+90 to 27+50 165 C.Y.



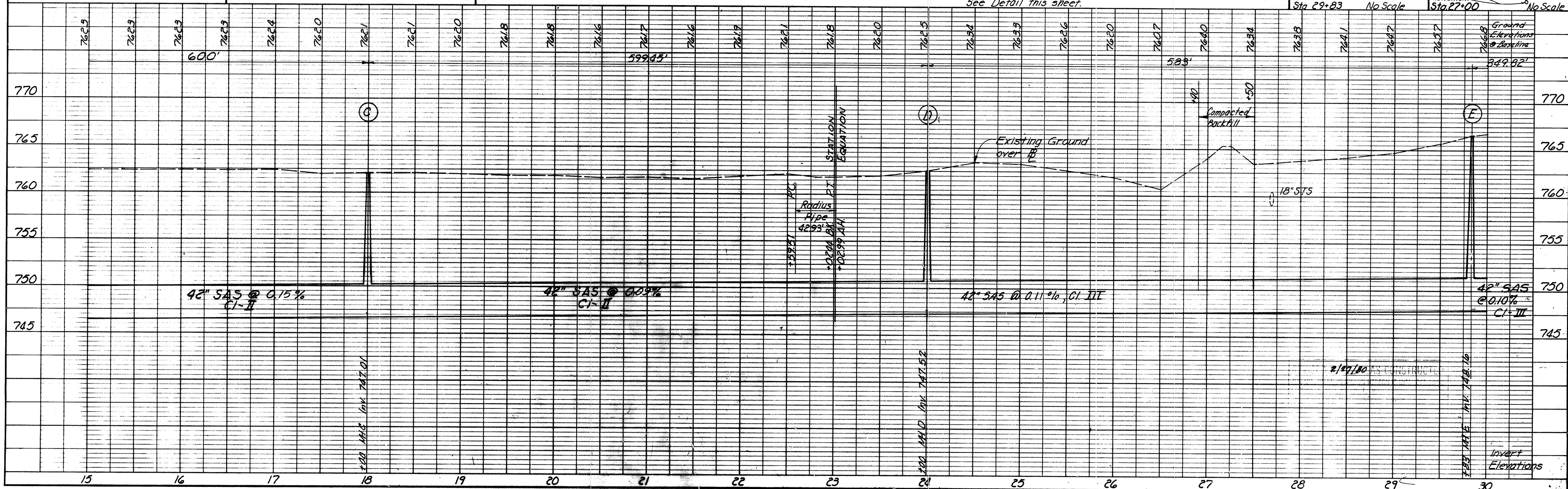
Bench Mark
P.K. Nail in west side of 12" Locust
215' Left of Sta. 19+65.
Elev. 768.12

Sta. 27+69 Existing 18" STS
Maintain drainage during construction of 42" SAS and restore 18" STS to original condition.
See Detail this sheet.



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NOTE BOOK: [blank]
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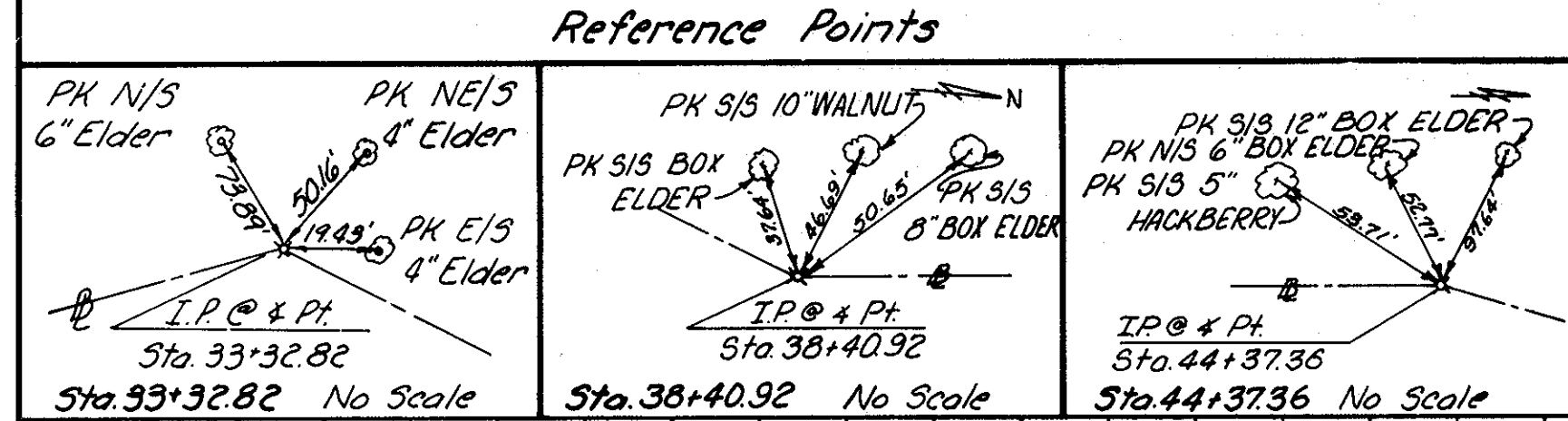
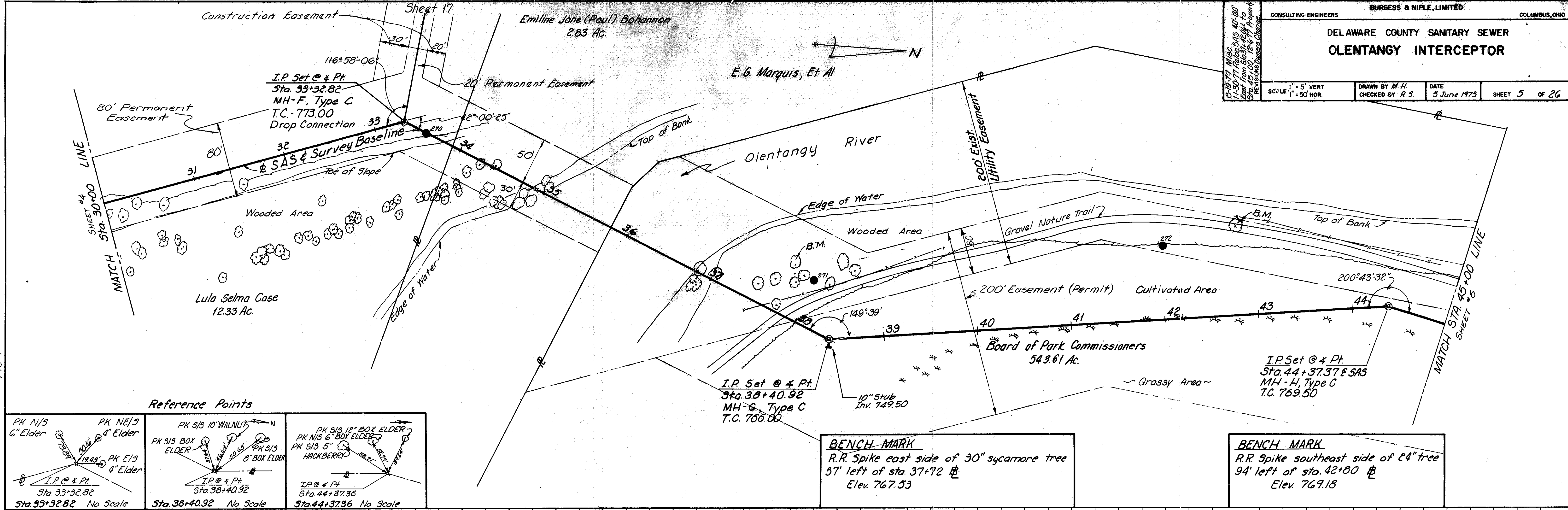
CONSULTING ENGINEERS **BURGESS & NIPLE, LIMITED** COLUMBUS, OHIO

DELAWARE COUNTY SANITARY SEWER
OLENTANGY INTERCEPTOR

SCALE: 1" = 5' VERT.
1" = 50' HOR.

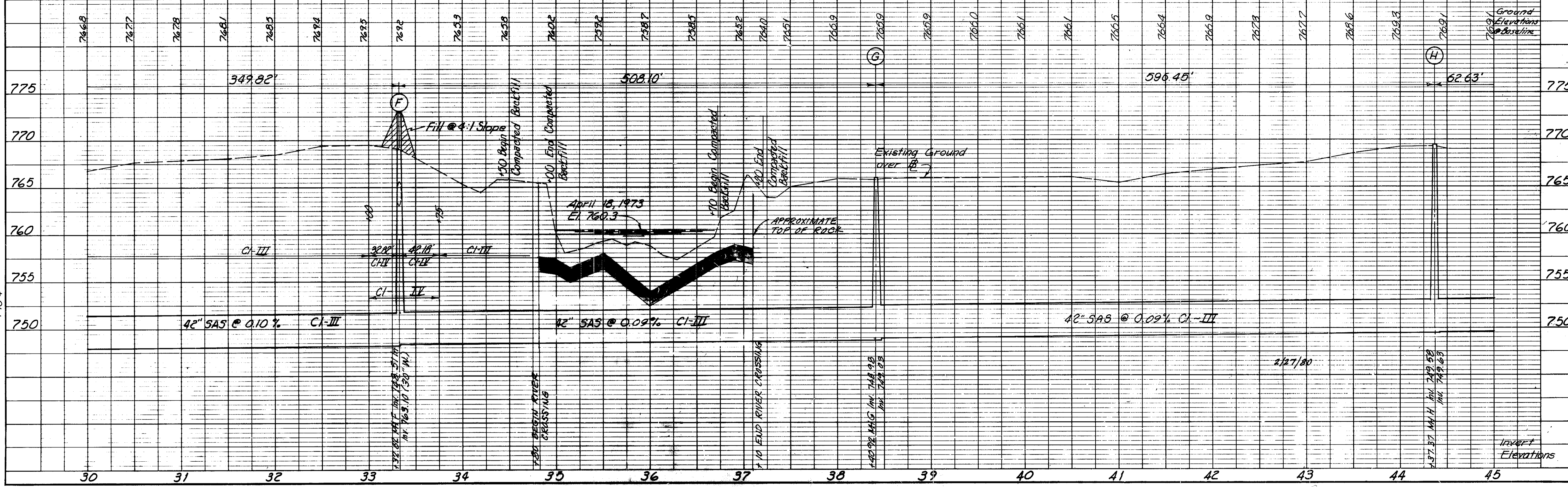
DRAWN BY M.H. DATE 5 June 1973 SHEET 5 OF 26
CHECKED BY R.S.

5-19-77 Misc. Notes: SAS 40'-10" East from Sta. 37+42.11 to Sta. 41+00. 12'-6" Property Res. 1/2" = 100' Vertical Change



BENCH MARK
R.R. Spike east side of 30" sycamore tree
57' left of sta. 37+72
Elev. 767.53

BENCH MARK
R.R. Spike southeast side of 24" tree
94' left of sta. 42+80
Elev. 769.18



PLAN

DATE _____ BY _____

NO. 73-42

PROFILE

DATE _____ BY _____

NO. 73-42

CONSULTING ENGINEERS **BURGESS & NIPLE, LIMITED** COLUMBUS, OHIO

DELAWARE COUNTY SANITARY SEWER
OLENTANGY INTERCEPTOR

SCALE 1" = 50' HORIZ. 1" = 5' VERT. DRAWN BY M.H. CHECKED BY R.S. DATE 3 June 73 SHEET 6 OF 26

PLAN
NOTE BOOK No. 73-4
DATE

PROFILE
NOTE BOOK No. 73-4
DATE

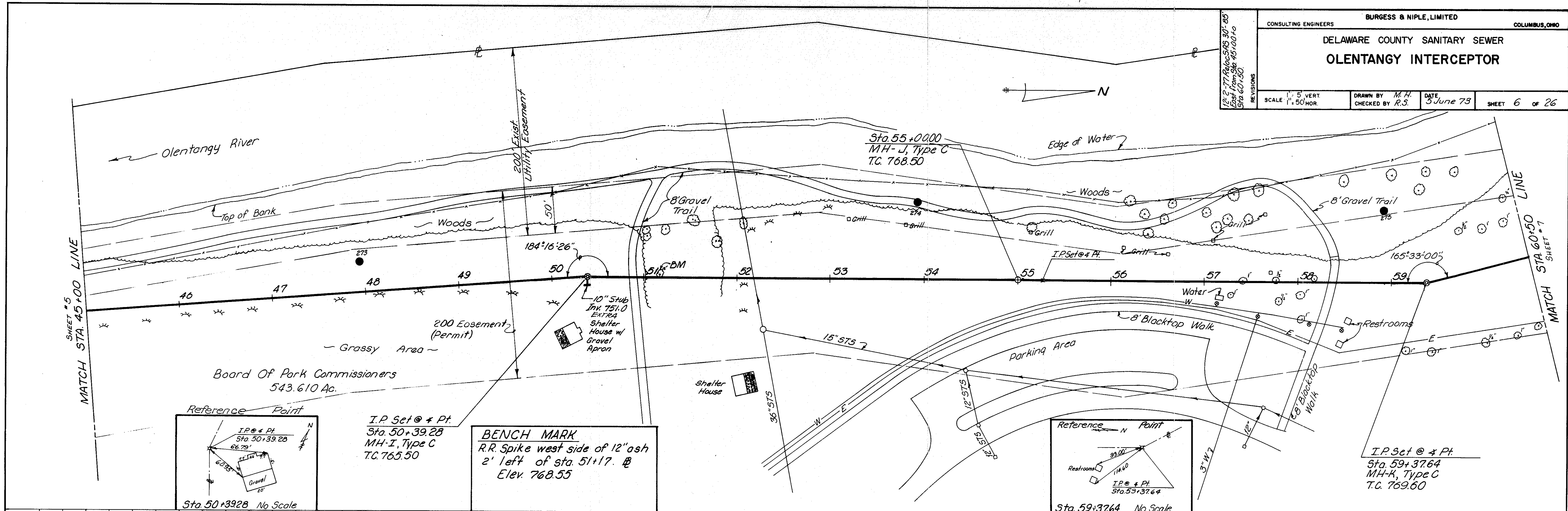


PLATE 1 PLAN PROFILE B P R STANDARD
EUGENE DIETZGEN CO.

GRANULAR BACKFILL
Sta 65+15 to Sta 65+41-137 c.y.

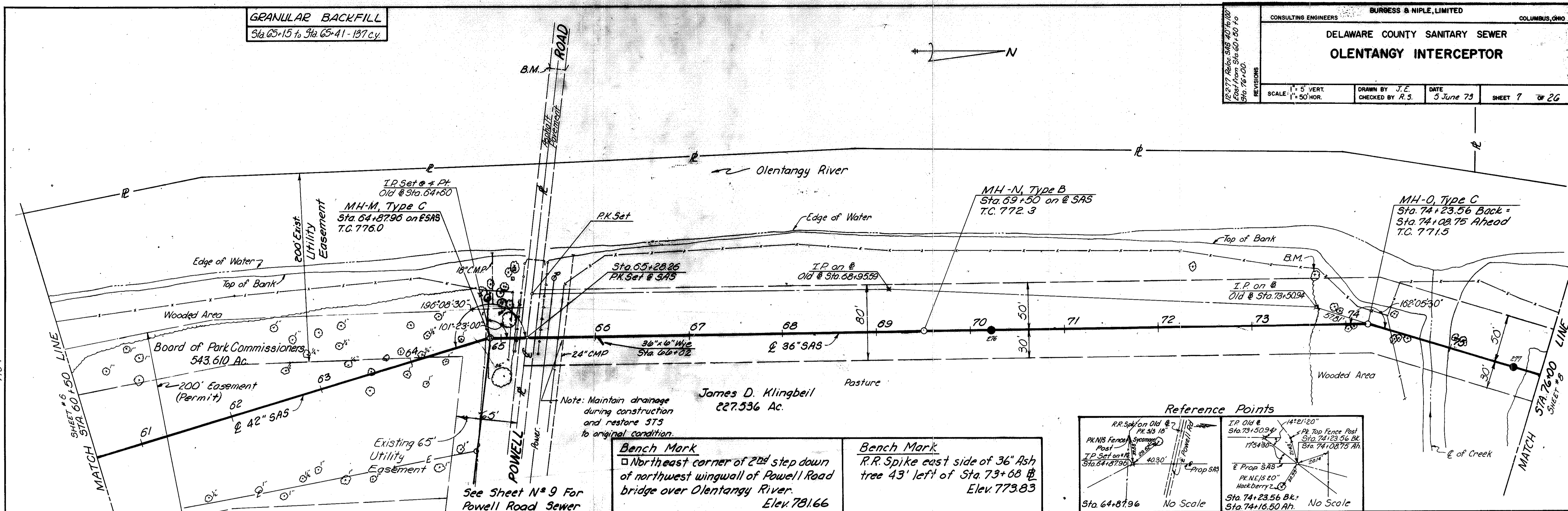
CONSULTING ENGINEERS **BURBESS & NIPLE, LIMITED** COLUMBUS, OHIO

DELAWARE COUNTY SANITARY SEWER
OLENTANGY INTERCEPTOR

SCALE: 1" = 5' VERT. 1" = 50' HOR. DRAWN BY J.E. CHECKED BY R.S. DATE 5 June 73 SHEET 7 OF 26

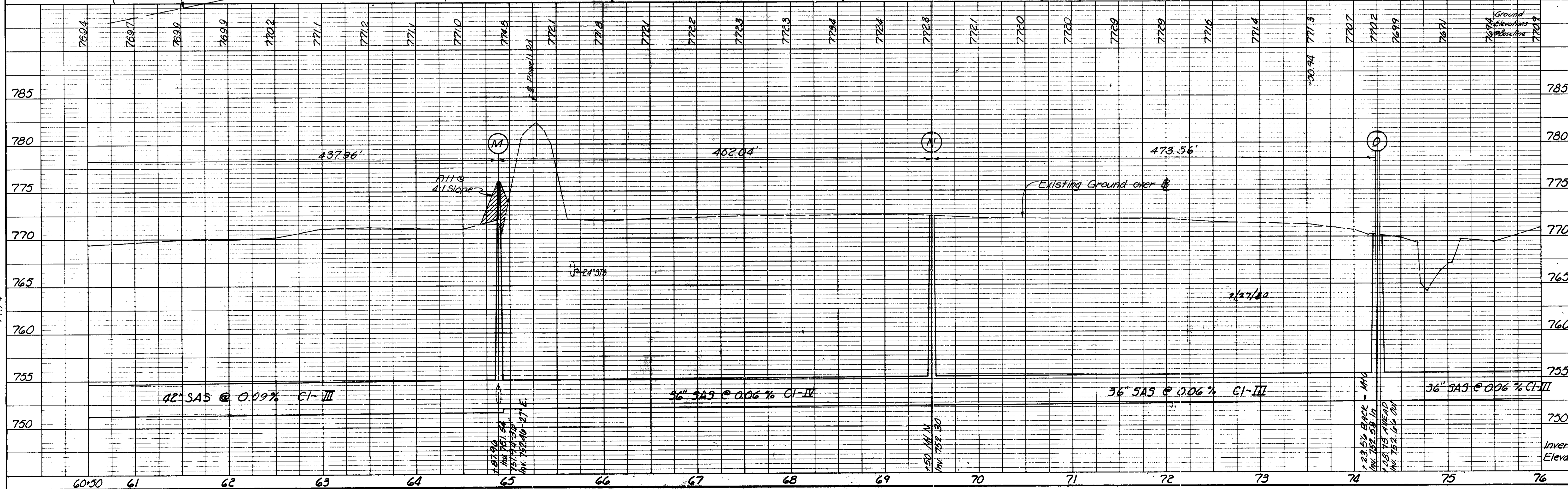
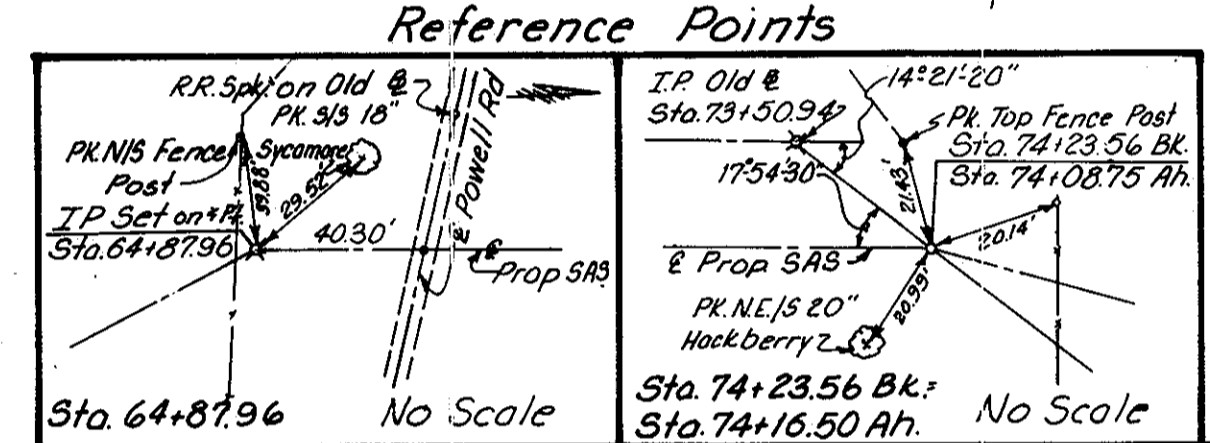
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PL. OF WAY CHECKED: []
7/3-4

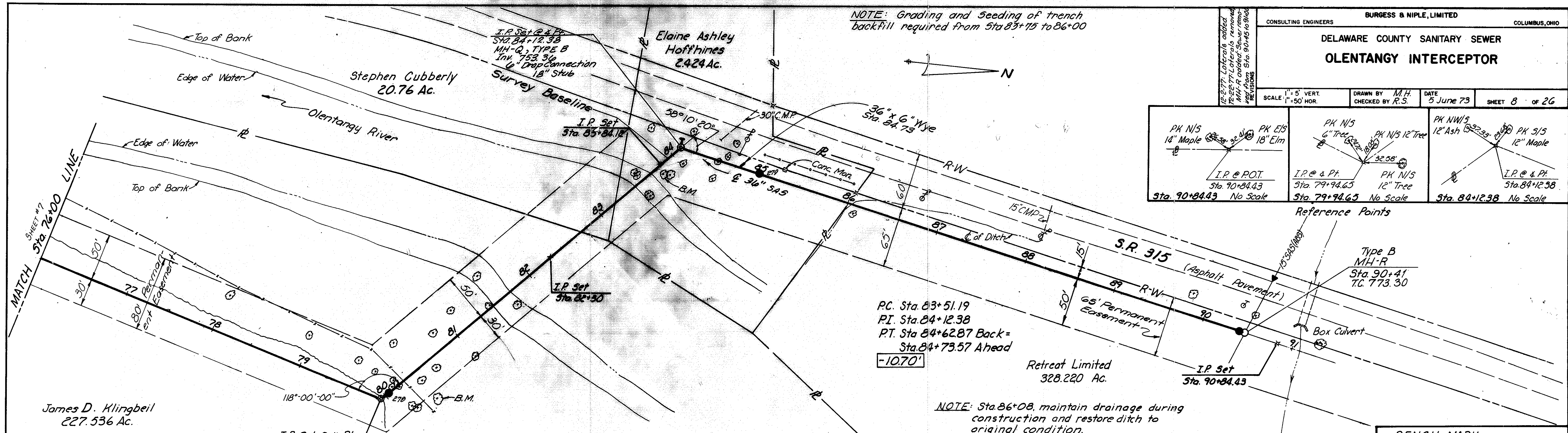
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STRUCTURE INFORMATION CHECKED: []
7/3-4



Bench Mark
□ Northeast corner of 2nd step down of northwest wingwall of Powell Road bridge over Olentangy River. Elev. 781.66

Bench Mark
R.R. Spike east side of 36" Ash tree 43' left of Sta. 73+68. Elev. 773.83





NOTE: Grading and Seeding of trench backfill required from Sta 83+75 to 86+00

PK N/S	PK E/S	PK N/S	PK NW/S	PK S/S
14" Maple	18" Elm	6" Tree	12" Tree	12" Maple
I.P. @ P.O.T. Sta. 90+84.43 No Scale		I.P. @ P.T. Sta. 79+94.65 No Scale		I.P. @ P.T. Sta. 84+12.38 No Scale

PC. Sta. 83+51.19
 PI. Sta. 84+12.38
 PT. Sta. 84+62.87 Back =
 Sta. 84+73.57 Ahead
 -10.70'

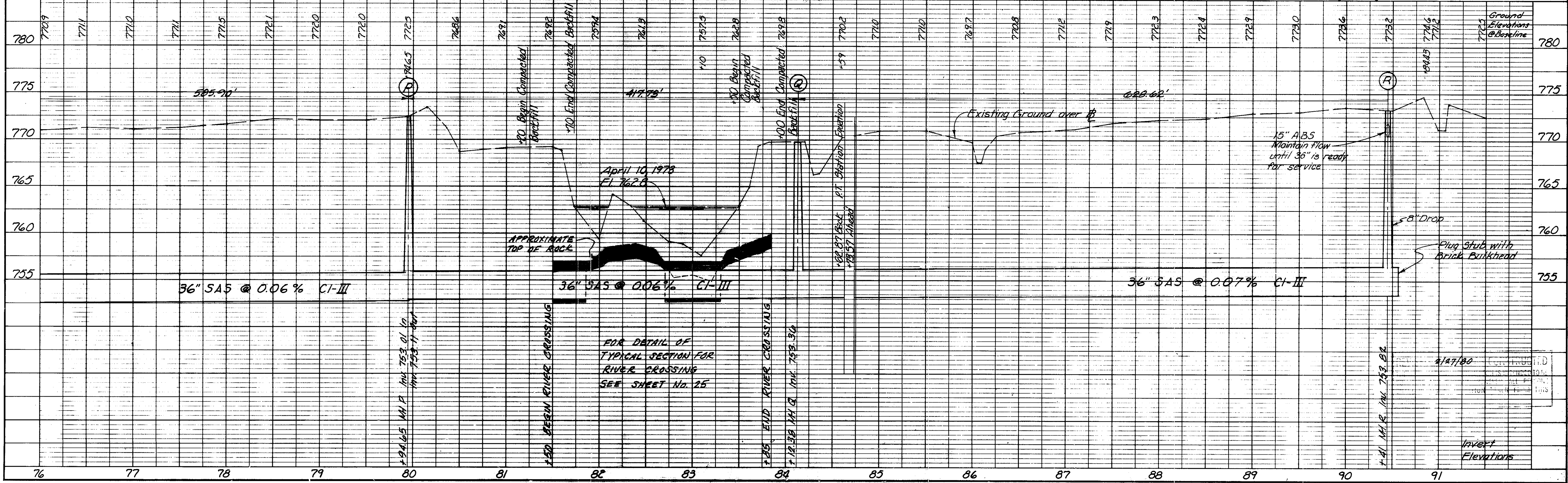
NOTE: Sta. 86+08, maintain drainage during construction and restore ditch to original condition.

BENCH MARK
 R.R. Spike south side of 30" tree
 38' left of sta. 80+40.
 Elev. 769.82

BENCH MARK
 R.R. Spike north side of 14" ash tree
 10' right of sta. 83+80.
 Elev. 768.94

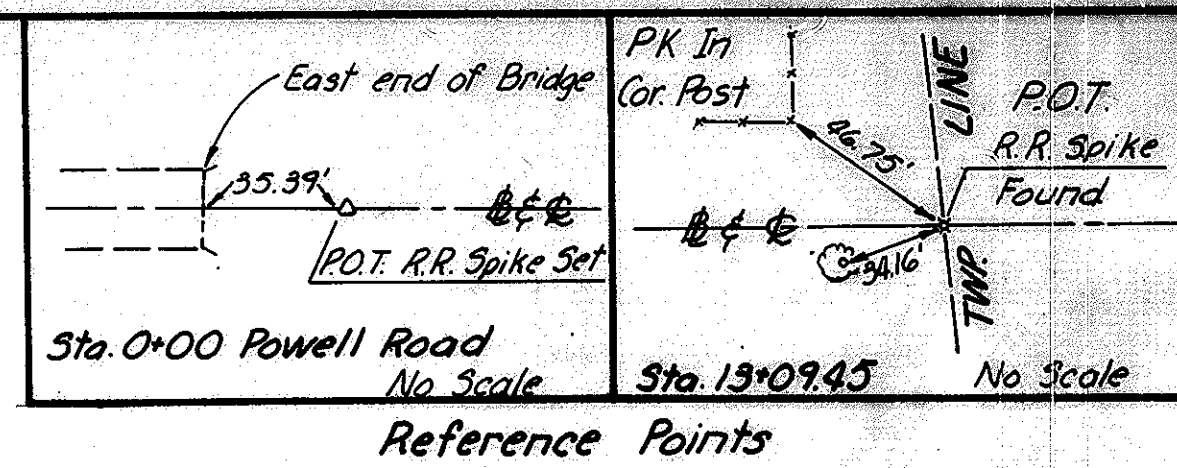
BENCH MARK
 □ on northeast corner of concrete headwall on west side of S.R. 315 (DEL-315-0188)
 Elev. 776.53

BENCH MARK
 R.R. Spike east side of power pole #D20A-34 on west side of S.R. 315 100' north of driveway to residence #8812.
 Elev. 784.69



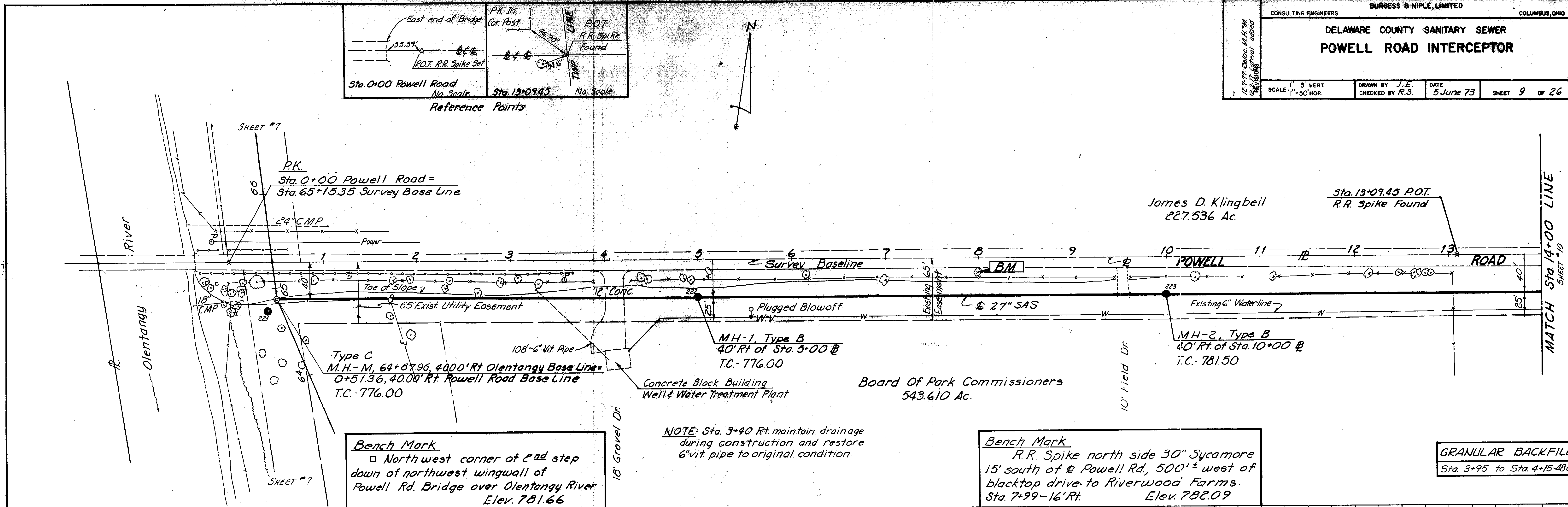
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PLAN
 SURVYING, PLOTTING, CHECKING, REVISIONS, DATE
 NOTE BOOK GRABER CHECKED, NO. 23-52
 STRUCTURE REGULATIONS CHECKED

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 NOTE BOOK GRABER CHECKED, NO. 23-52
 STRUCTURE REGULATIONS CHECKED

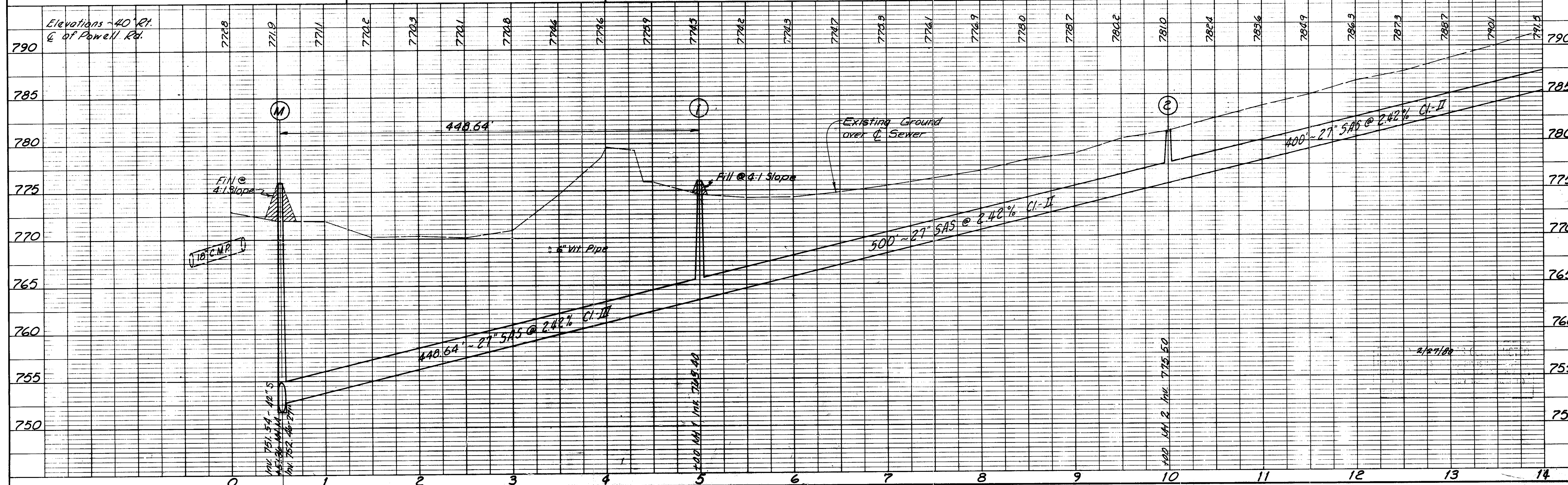


Bench Mark
 □ Northwest corner of 2nd step down of northwest wingwall of Powell Rd. Bridge over Olentangy River
 Elev. 781.66

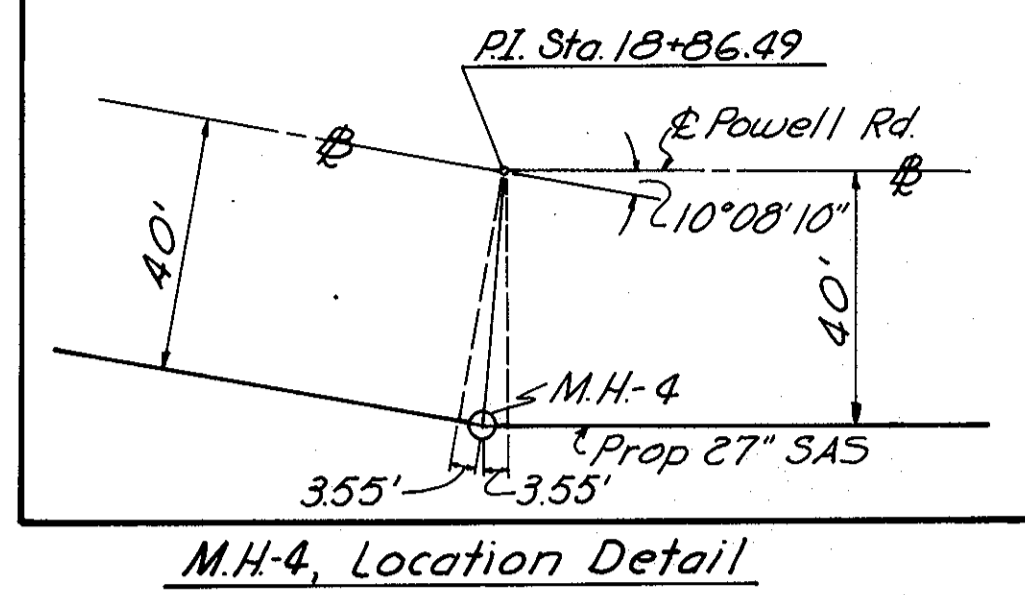
NOTE: Sta. 3+40 Rt maintain drainage during construction and restore 6" vit. pipe to original condition.

Bench Mark
 R.R. Spike north side 30" Sycamore 15' south of & Powell Rd, 500'± west of blacktop drive to Riverwood Farms.
 Sta. 7+99-16' Rt. Elev. 782.09

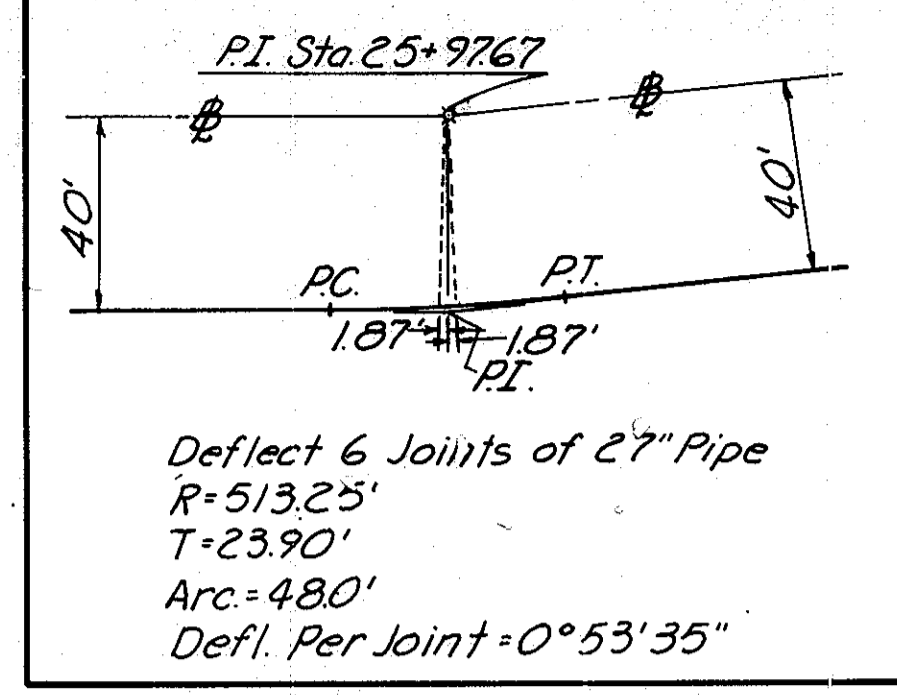
GRANULAR BACKFILL
 Sta. 3+95 to Sta. 4+15-48cy



GRANULAR BACKFILL
 Sta 25+15 to Sta. 25+25.16cy.
 Sta. 27+04 to Sta. 27+16-27cy.



James D. Klingbeil
 227.536 Ac.

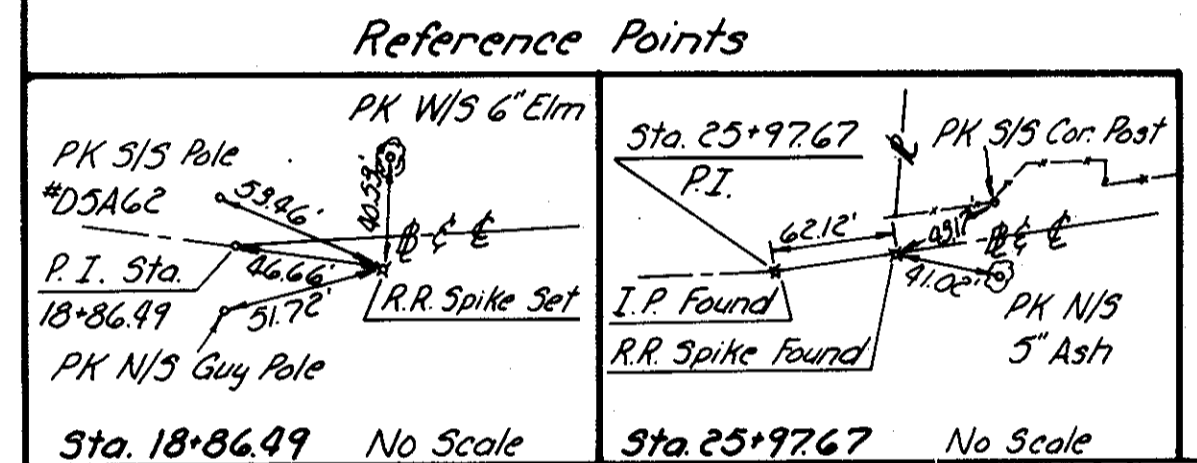
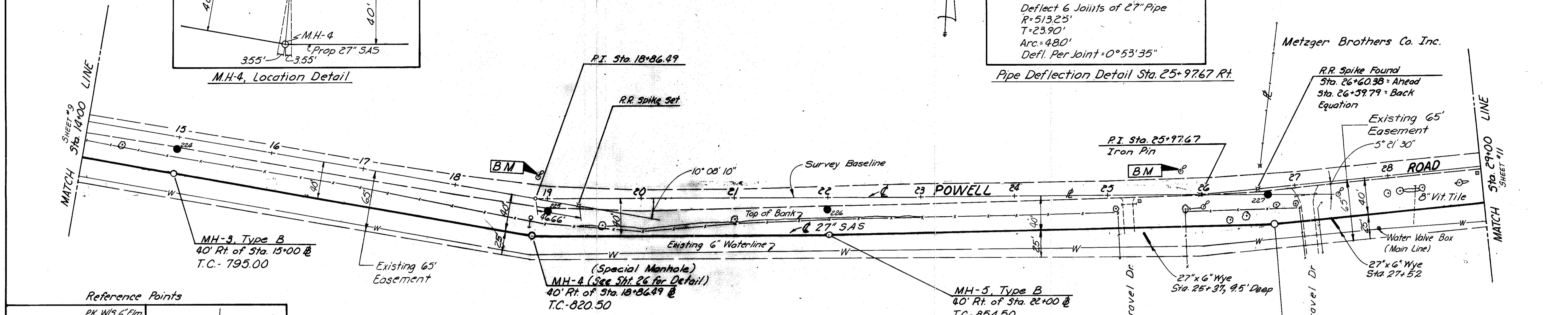


CONSULTING ENGINEERS
BURGESS & NIPLE, LIMITED
 COLUMBUS, OHIO

**DELAWARE COUNTY SANITARY SEWER
 POWELL ROAD INTERCEPTOR**

SCALE: 1" = 5' VERT. 1" = 50' HOR.
 DRAWN BY M.H. CHECKED BY R.S. DATE 5 June 73 SHEET 10 of 26

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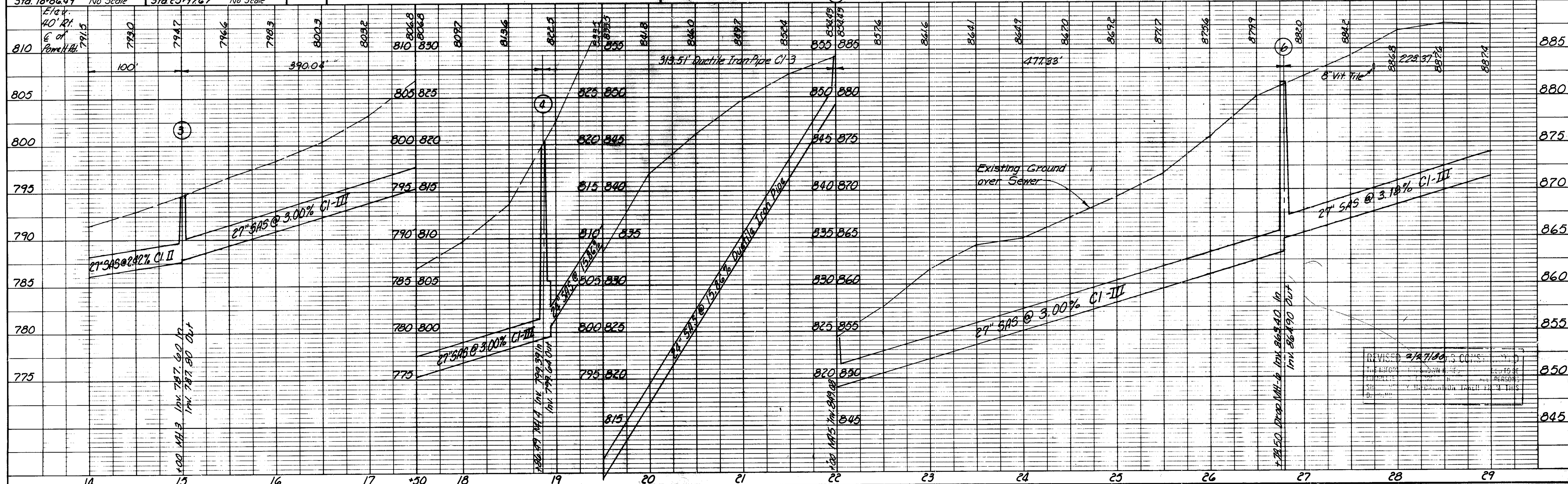


Bench Mark
 R.R. Spike south side Power Pole #D5A-62
 on north side Powell Rd., & Pole P.C. Curve +
 Sta. 18+85-22' Lt. Elev. 817.25

Board Of Park Commissioners
 549.61 Ac.

MH-6, TYPE B
 Sta. 26+78.50
 Inv. 863.40 In.
 Inv. 864.90 Out.
 Note: Sta. 28+25 Rt. Maintain drainage
 during construction and restore
 8" vit. tile to original condition.

Bench Mark
 R.R. Spike south side Power
 Pole #D6A-97, North side Powell
 Road @ Res. #705
 Sta. 25+78-20' Lt. Elev. 874.64



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GRANULAR BACKFILL
Sta. 29+07 to Sta. 29+17.21cy

BURGESS & NIPLE, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

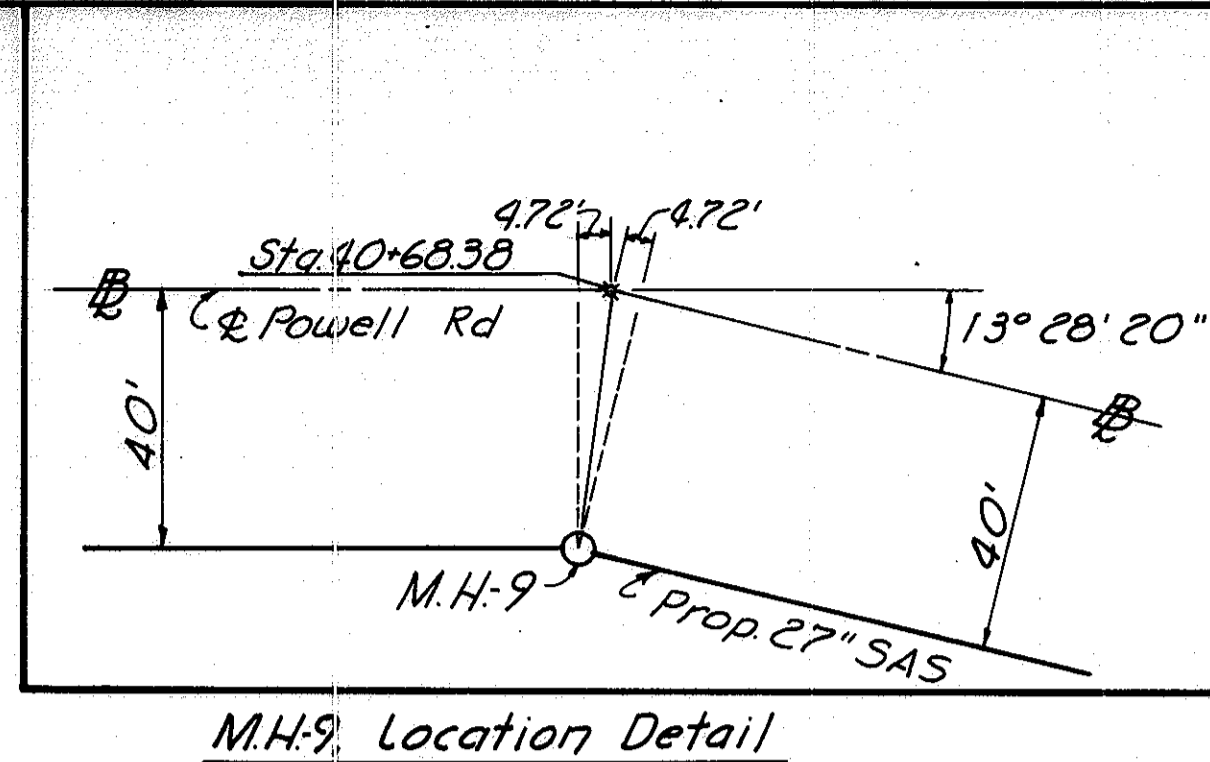
DELAWARE COUNTY SANITARY SEWER
POWELL ROAD INTERCEPTOR

SCALE: 1" = 5' VERT.
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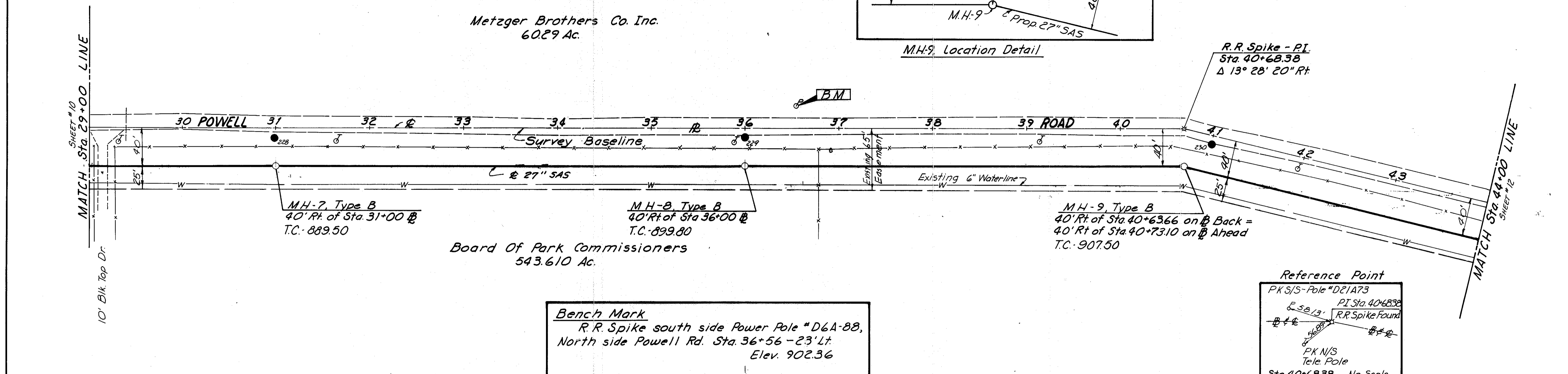
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DATE 5 June 73

SHEET 11 OF 26



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NOTE BOOK NO. 73-142
DATE



PROFILE
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NOTED BY
NOTE BOOK NO. 73-142
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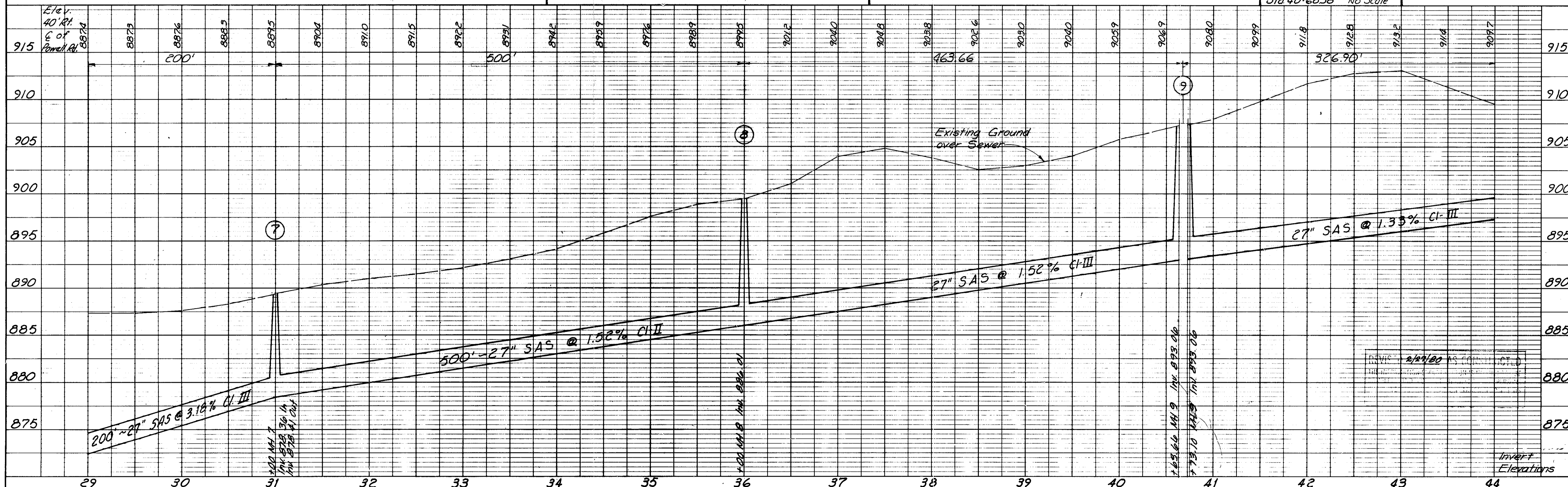


PLATE 11 PLAN-PROFILE B.P.R. STANDARD
ENGINE DIVISION CO. CHICAGO - NEW YORK

See Sheet No. 21 for
Burn Brae Branch

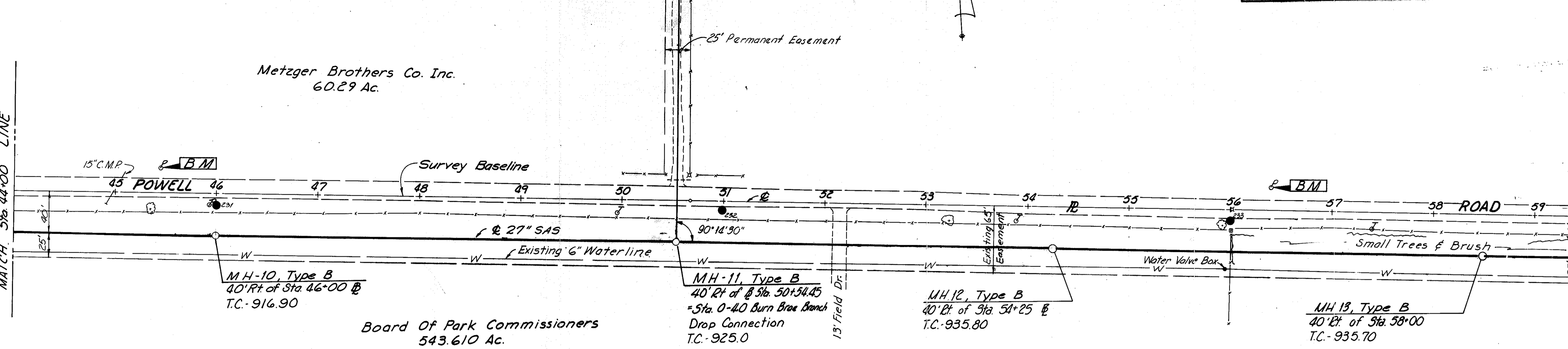


Metzger Brothers Co. Inc.
60.29 Ac.

Board of Park Commissioners
543.610 Ac.

SHEET #11
MATCH Sta. 44+00 LINE

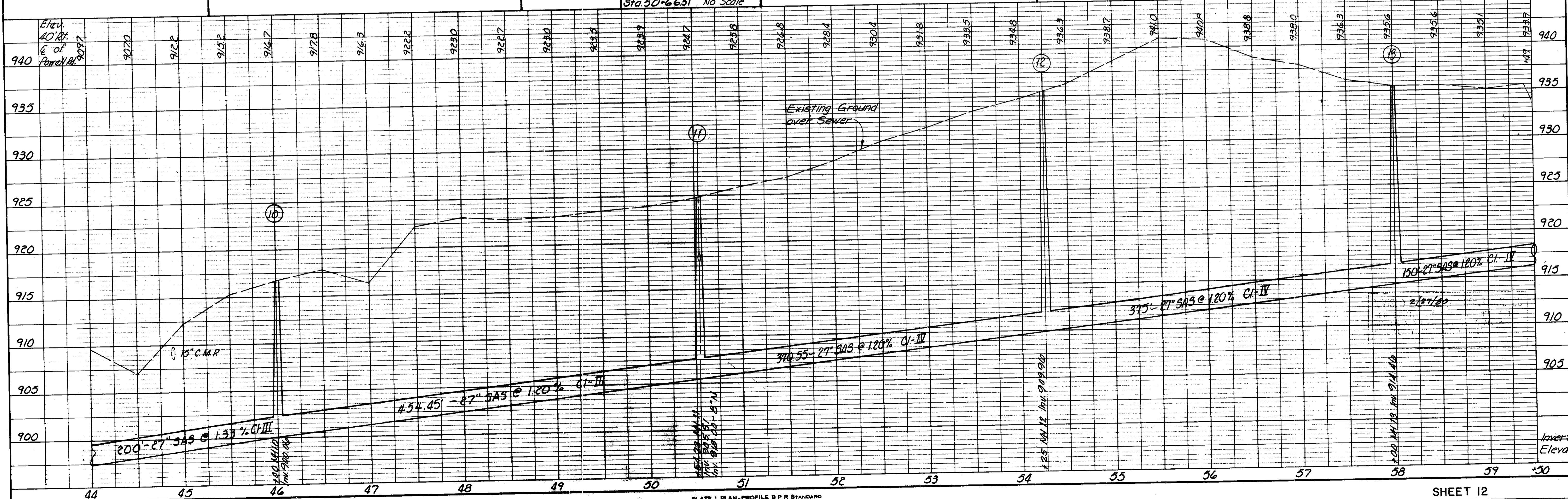
MATCH Sta. 59+00
SHEET #13 LINE



Bench Mark
R.R. Spike south side Power Pole # D21A-70,
North side Powell Rd. Sta. 45+46-25' Lt.
Elev. 912.45

Reference
IP 90° 19' 20"
25.04'
P.O.T. 50+66.31
PK. Set
Sta. 50+66.31 No Scale

Bench Mark
R.R. Spike south side Power Pole # D21A-64,
North side Powell Rd. Sta. 56+38-245' Lt.
Elev. 940.04



PLAN

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NOTE BOOK
NO. 73-54
REVISIONS

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REVISIONS

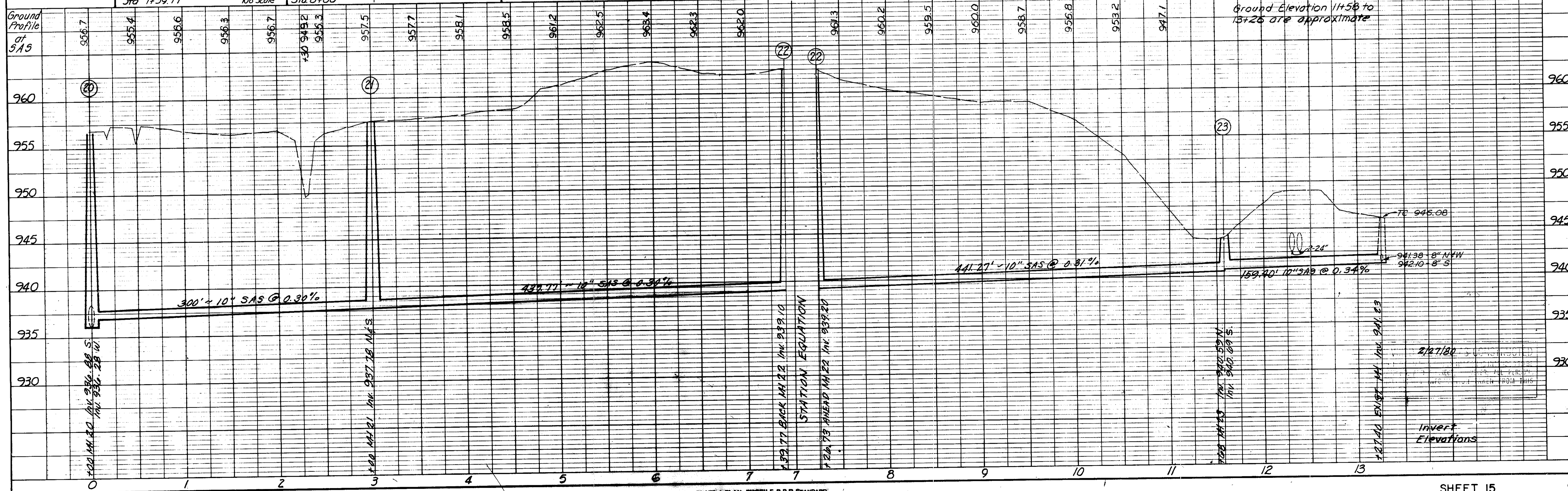
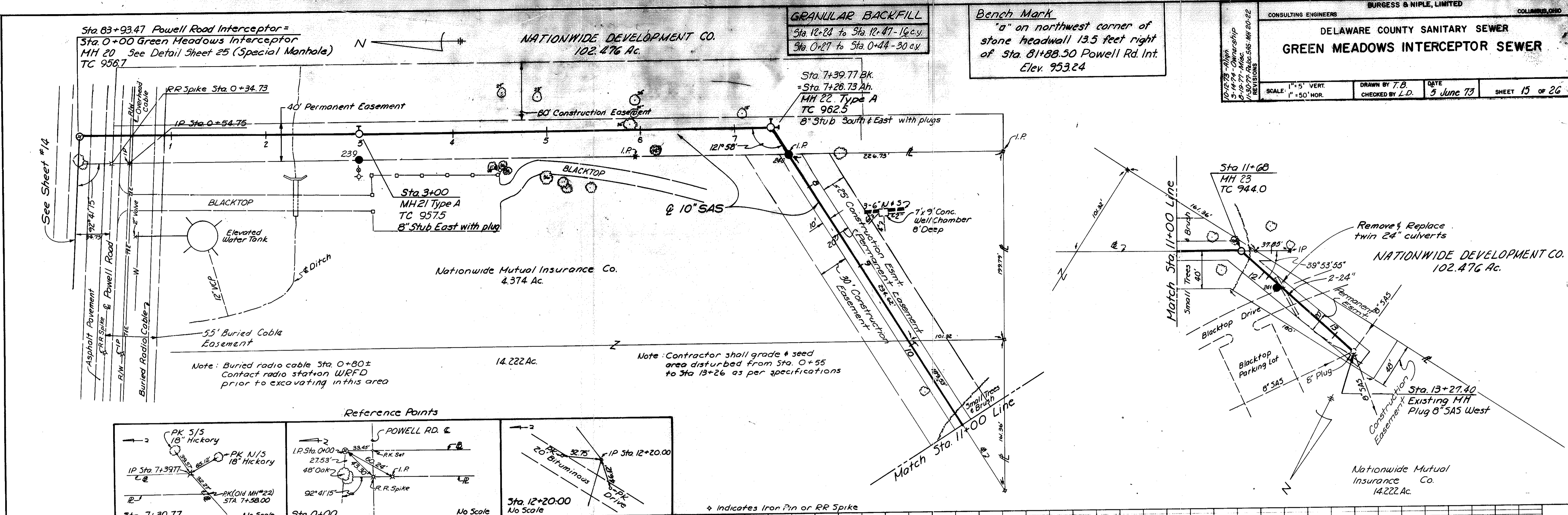


PLATE I PLAN - PROFILE B P R STANDARD

SHEET 15

DATE
BY
SUPERVISOR
NOTED
NOTE BOOK
NO. 73-54
REVISIONS

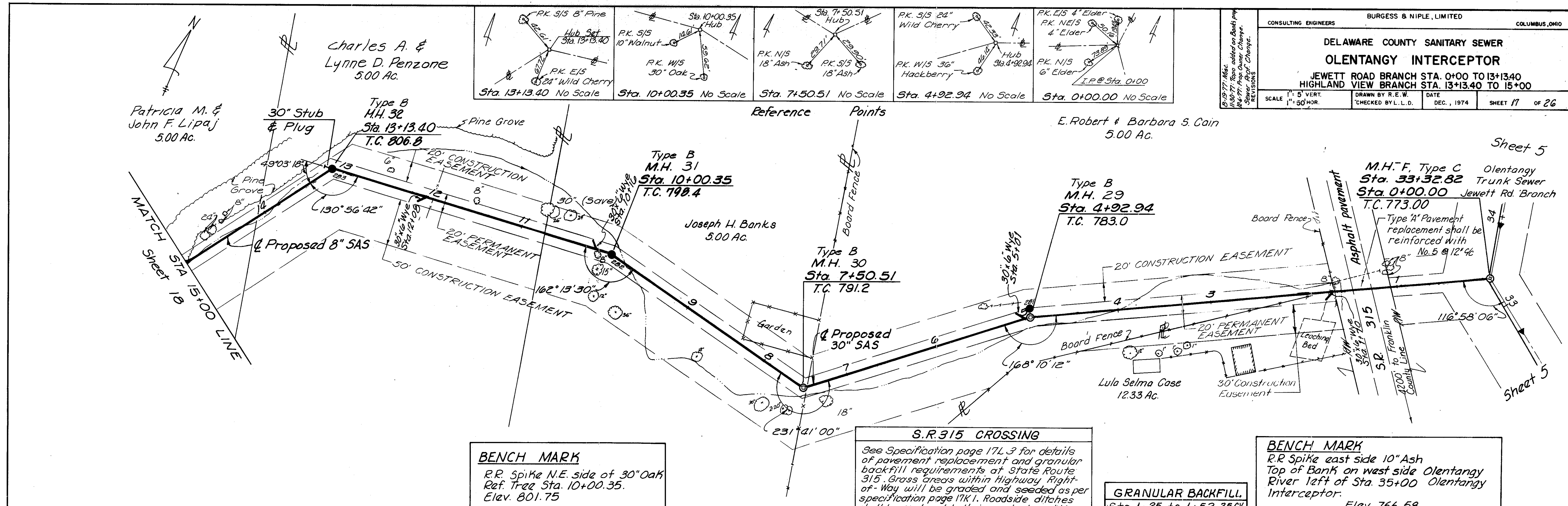
DATE
BY
SUPERVISOR
NOTED
NOTE BOOK
NO. 73-54
REVISIONS

CONSULTING ENGINEERS
BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

DELAWARE COUNTY SANITARY SEWER
OLENTANGY INTERCEPTOR

JEWETT ROAD BRANCH STA. 0+00 TO 13+34.0
HIGHLAND VIEW BRANCH STA. 13+34.0 TO 15+00

SCALE 1" = 5' VERT. 1" = 50' HOR.
DRAWN BY R. E. W.
CHECKED BY L. L. D.
DATE DEC., 1974
SHEET 17 OF 26



BENCH MARK
R.R. Spike N.E. side of 30" Oak
Ref. Tree Sta. 10+00.35.
Elev. 801.75

S.R. 315 CROSSING
See Specification page 17L.3 for details of pavement replacement and granular backfill requirements of State Route 315. Grass areas within Highway Right-of-Way will be graded and seeded as per specification page 17K.1. Roadside ditches shall be restored to their original condition.

GRANULAR BACKFILL.
Sta. 1+25 to 1+52.35(1)

BENCH MARK
R.R. Spike east side 10" Ash
Top of Bank on west side Olentangy River left of Sta. 35+00 Olentangy Interceptor.
Elev. 766.58

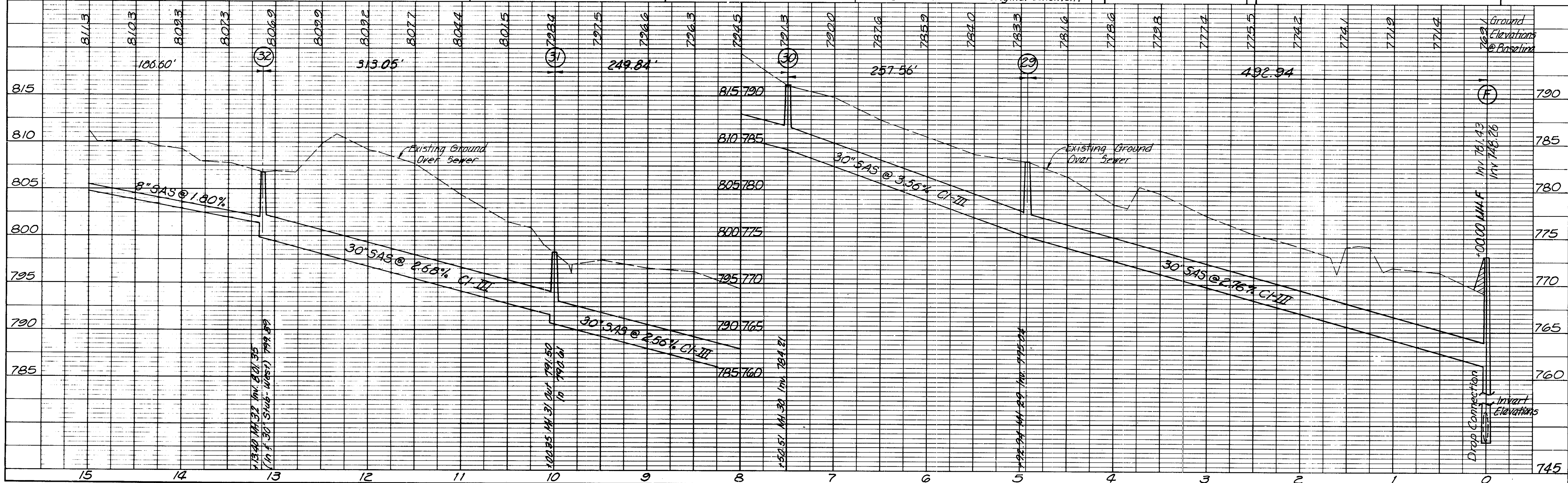
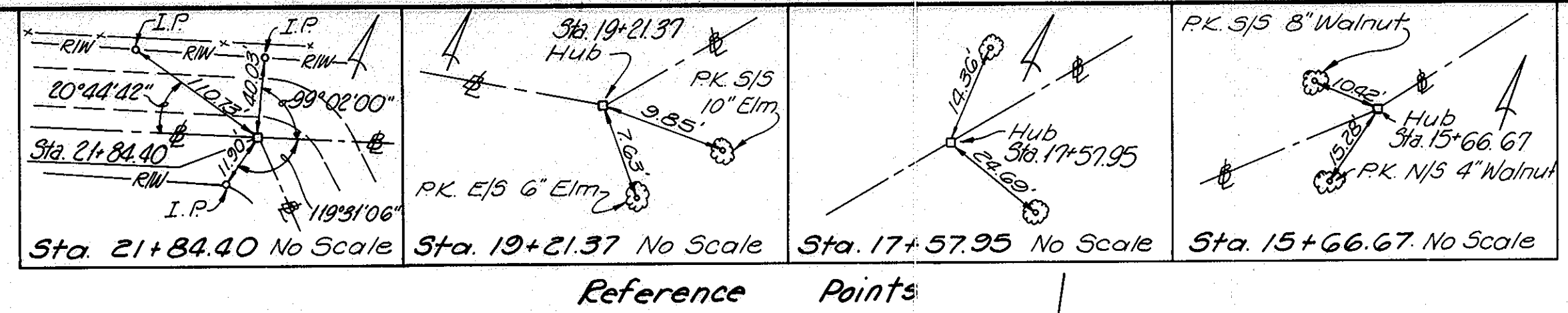


PLATE 1 PLAN - PROFILE B P R STANDARD
SCHAFFNER DESIGN CO. CHICAGO - NEW YORK

Granular Backfill

Sta. 21+38 to Sta. 21+75 - 61cy
Sta. 24+95 to Sta. 25+17 - 18cy
Sta. 26+60 to Sta. 26+77 - 13cy
Sta. 28+00 to Sta. 28+13 - 14cy
Sta. 29+00 to Sta. 29+42 - 47cy



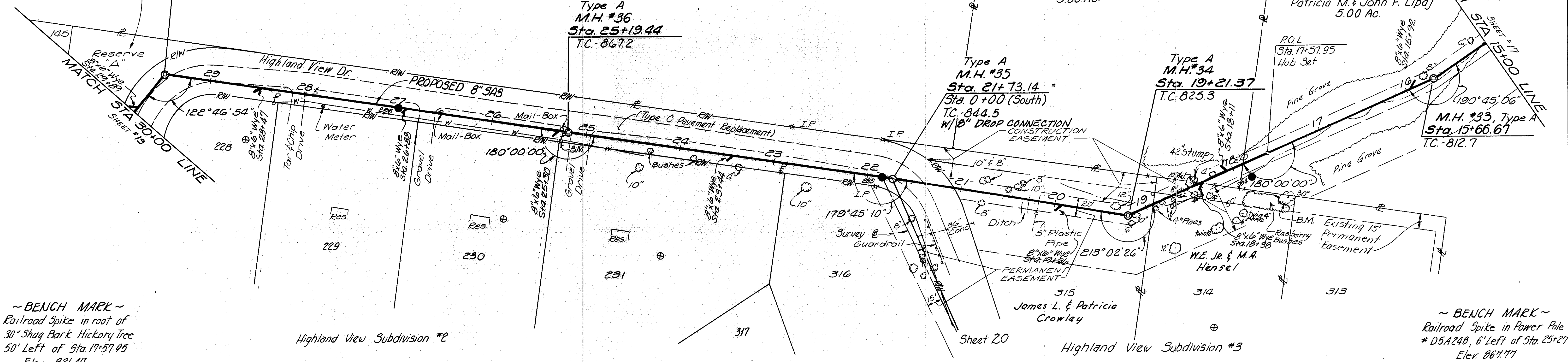
William H. Zimmerman
 Type A
 M.H. #37
 Sta. 29+49.29
 T.C. 879.4

Type A
 M.H. #36
 Sta. 25+19.44
 T.C. 867.2

Type A
 M.H. #35
 Sta. 21+73.14 =
 Sta. 0+00 (South)
 T.C. 844.5
 W/8" DROP CONNECTION

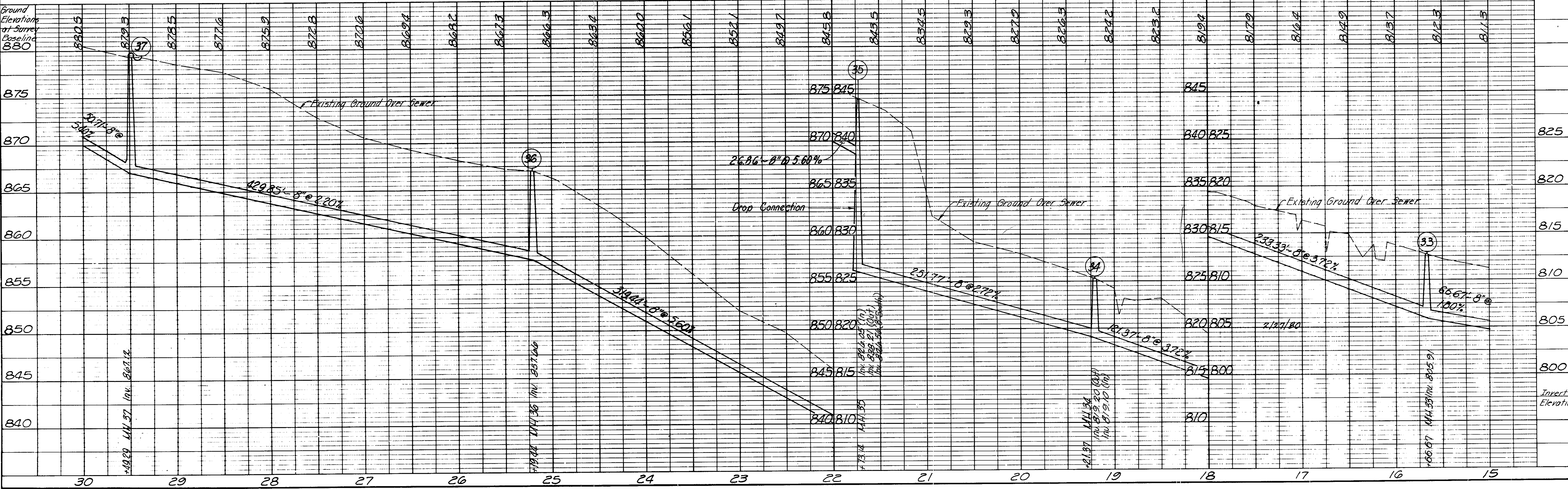
Type A
 M.H. #34
 Sta. 19+21.37
 T.C. 825.3

M.H. #33, Type A
 Sta. 15+66.67
 T.C. 812.7



~ BENCH MARK ~
 Railroad Spike in root of
 30" Shag Bark Hickory Tree
 50' Left of Sta. 17+57.95
 Elev. 821.47

~ BENCH MARK ~
 Railroad Spike in Power Pole
 # D5A240, 6' Left of Sta. 25+27
 Elev. 867.77



PLAN

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PROFILE

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~ BENCH MARK ~
 Railroad Spike in Power Pole #D5A170,
 75' Northeast of Highland View
 Drive along Southeast side of
 Jewett Road
 Elev. 907.96

Granular Backfill

Sta 31+31 to Sta 31+61 - 19cy
Sta 33+65 to Sta 34+50 - 51cy
Sta 36+23 to Sta 36+41 - 23cy
Sta 37+21 to Sta 37+32 - 14cy
Sta 39+13 to Sta 39+26 - 15cy
Sta 39+98 to Sta 40+17 - 24cy
Sta 41+22 to Sta 41+34 - 15cy
Sta 42+38 to Sta 42+56 - 22cy
Sta 39+26 to Sta 43+24 - 157cy (Except at driveways)

BURGESS & NIPLE, LIMITED
 CONSULTING ENGINEERS COLUMBUS, OHIO

**DELAWARE COUNTY SANITARY SEWER
 OLENTANGY INTERCEPTOR**

HIGHLAND VIEW BRANCH STA. 30+00 TO 43+23.79

SCALE: 1" = 5' VERT. 1" = 50' HOR.
 DRAWN BY R.E.W. CHECKED BY L.L.D. DATE DEC., 1974 SHEET 19 OF 26

PLAN

DATE: _____ BY: _____

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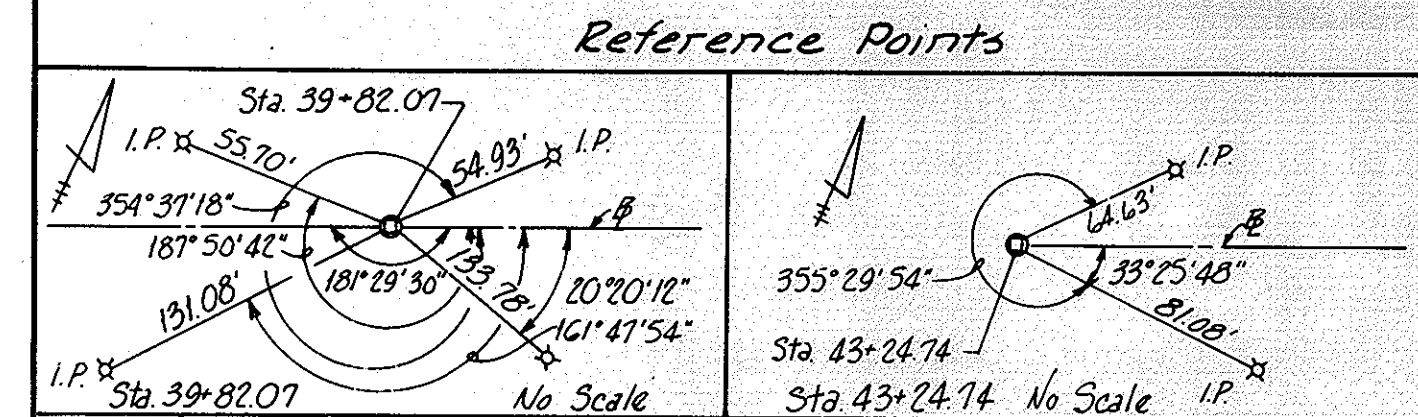
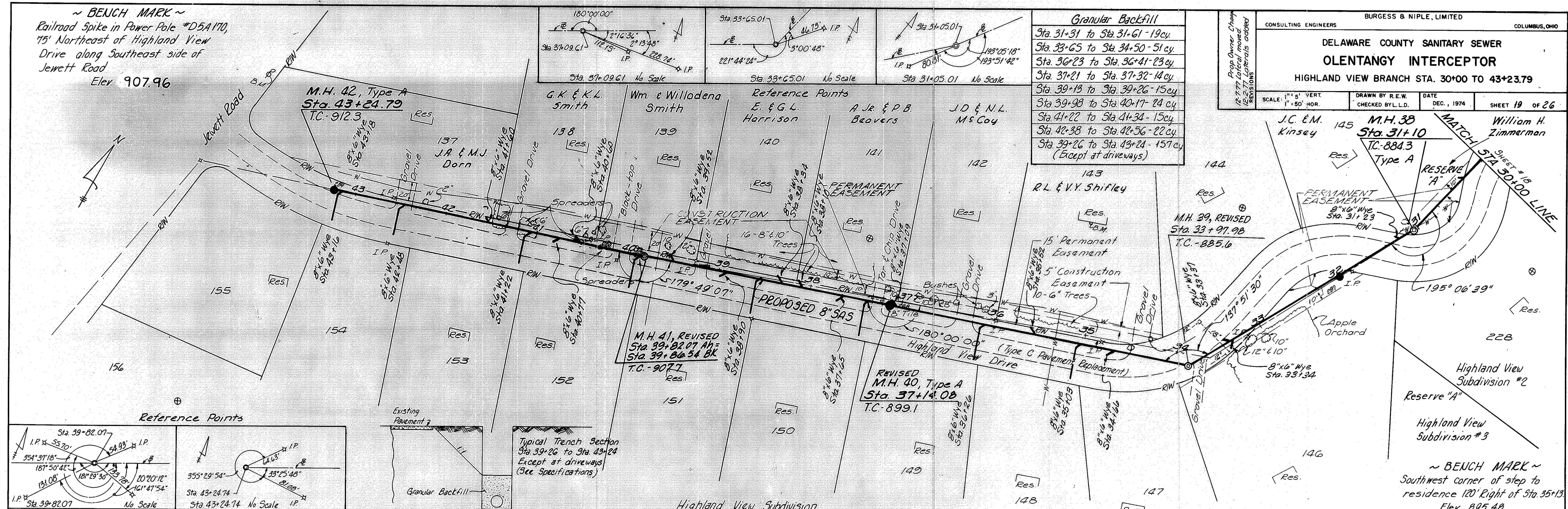
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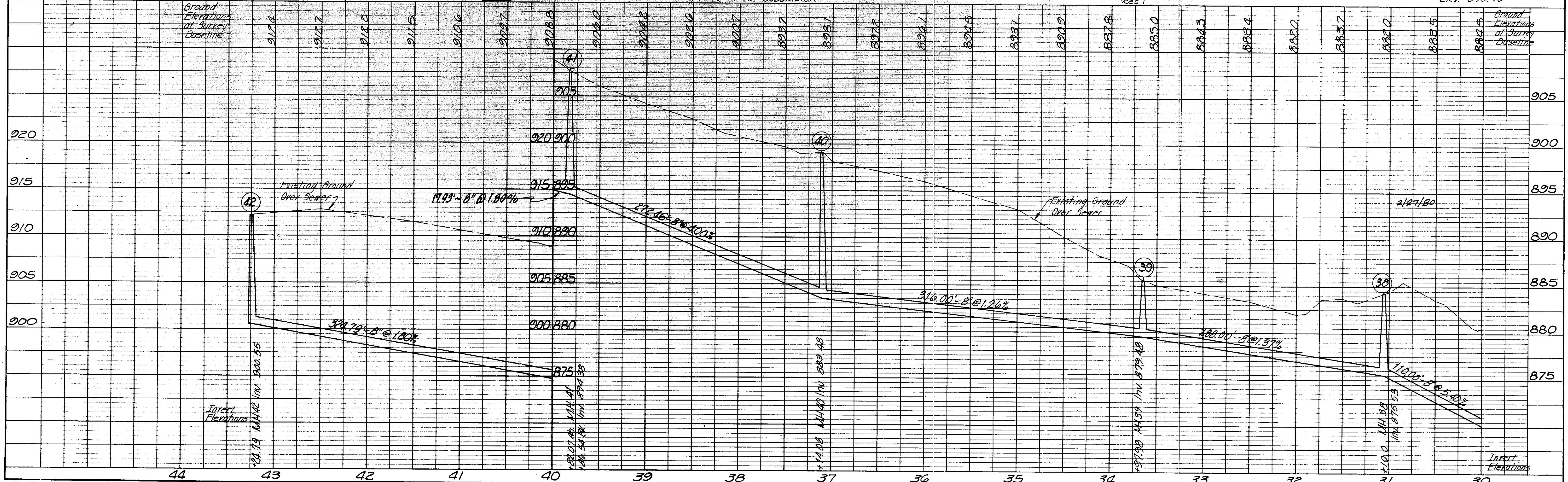


PLATE 1 PLAN-PROFILE B & P STANDARD
 ENGINE DRAWING CO. CHICAGO, NEW YORK

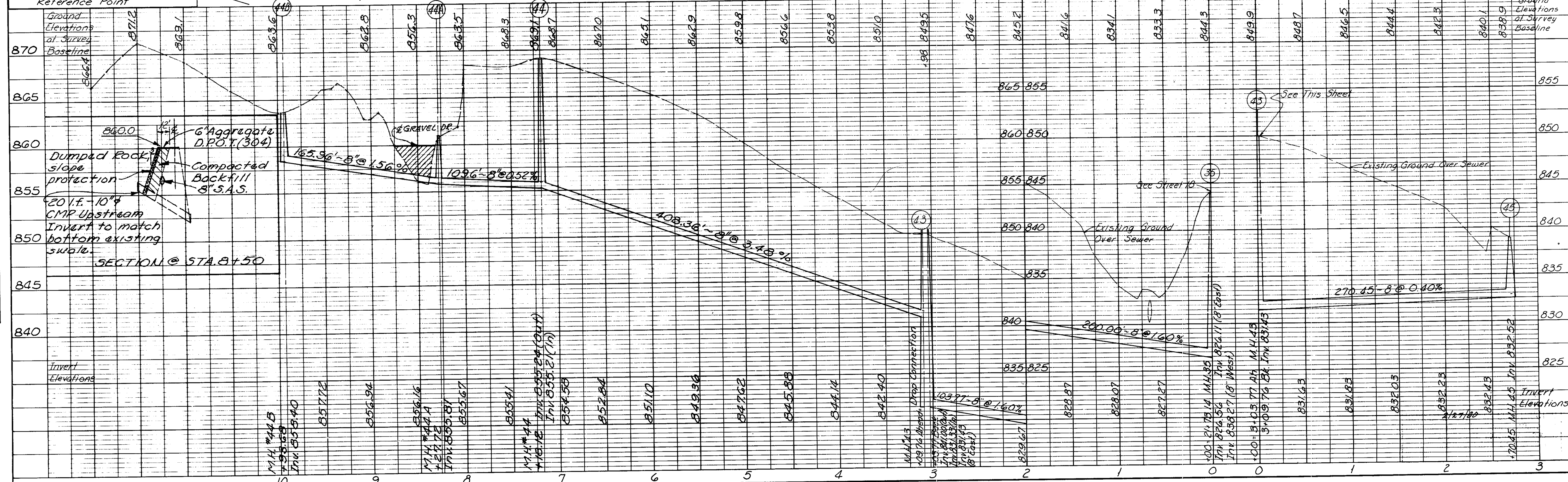
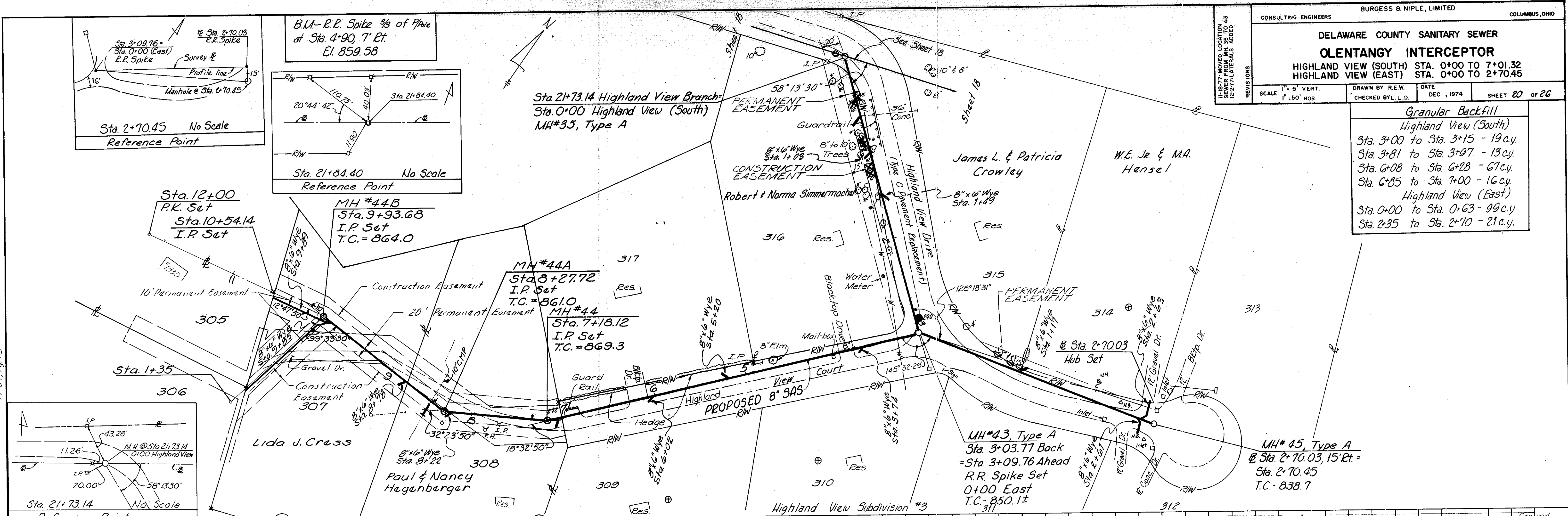
Granular Backfill

Highland View (South)

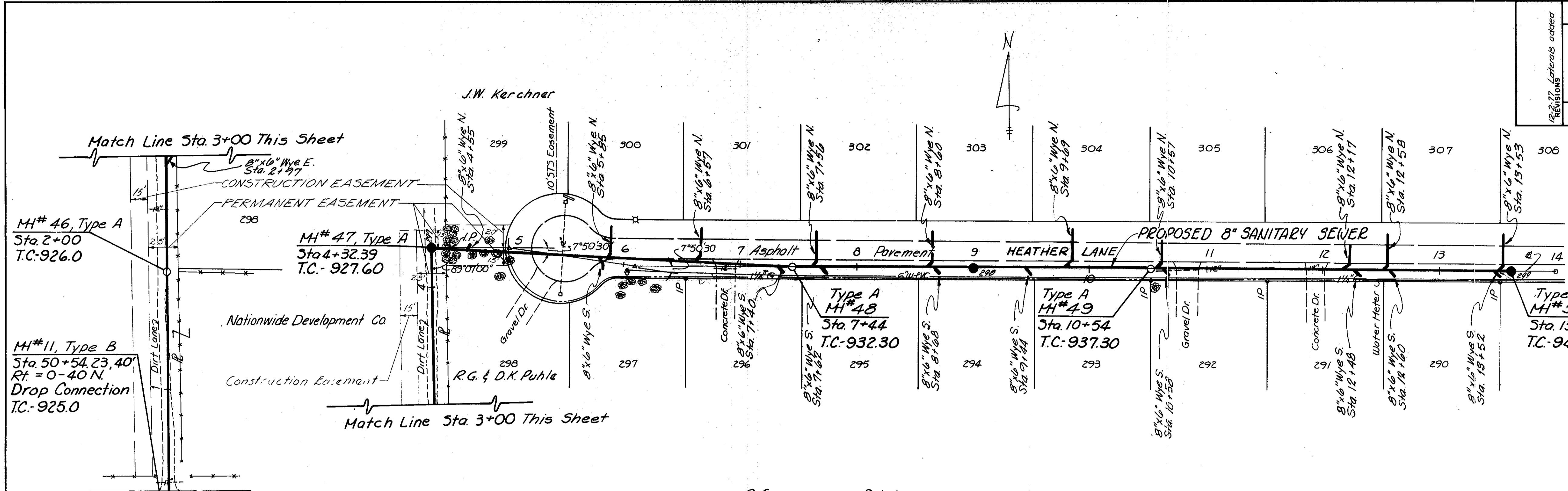
Sta. 3+00 to Sta. 3+15 - 19 cy.
 Sta. 3+81 to Sta. 3+97 - 13 cy.
 Sta. 6+08 to Sta. 6+28 - 67 cy.
 Sta. 6+85 to Sta. 7+00 - 16 cy.

Highland View (East)

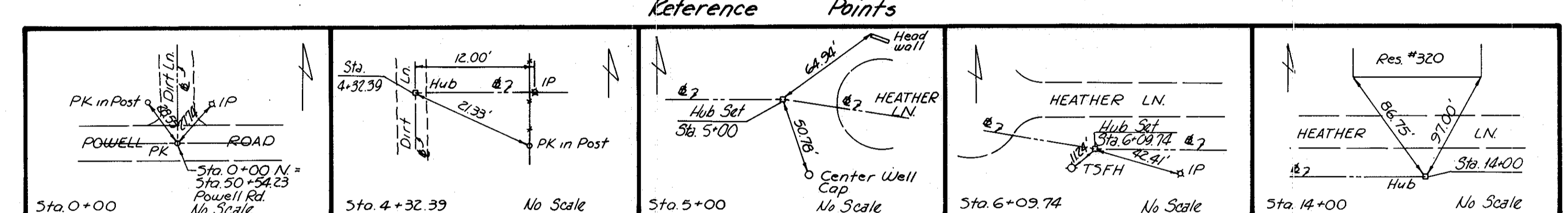
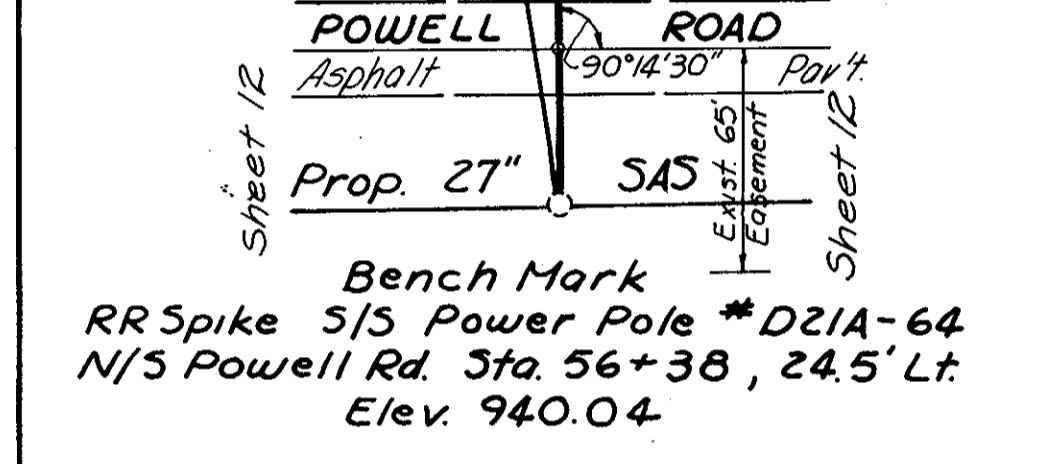
Sta. 0+00 to Sta. 0+63 - 99 cy.
 Sta. 2+35 to Sta. 2+70 - 21 cy.



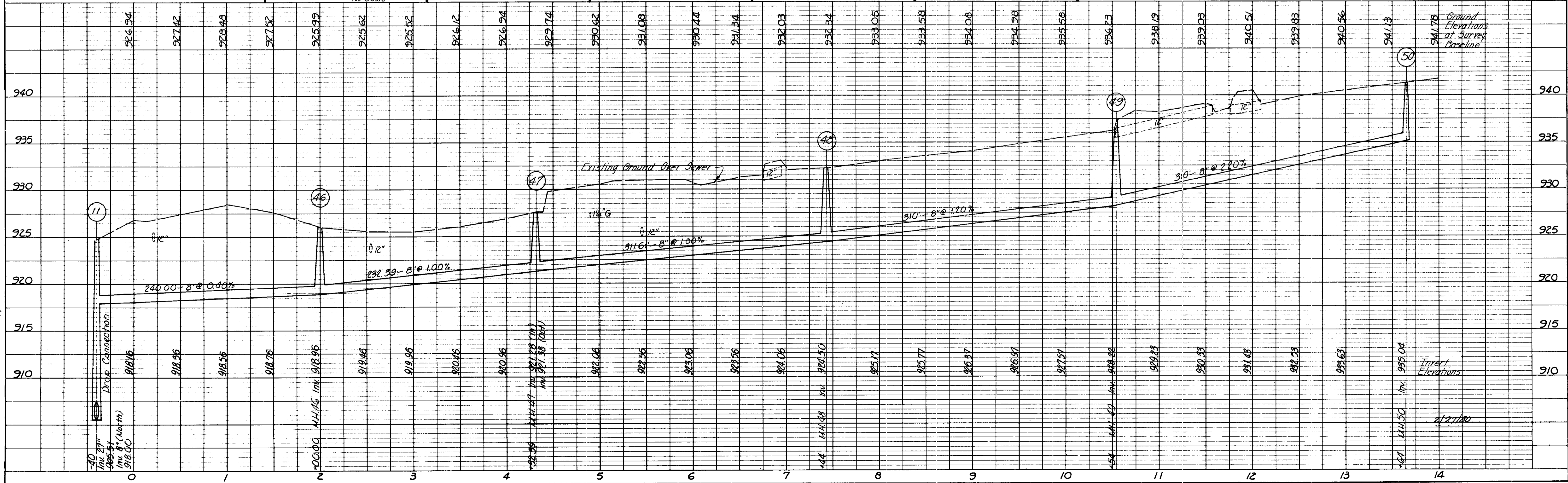
GRANULAR BACKFILL
 Sta. 0+12 to Sta. 0+15-22cy
 Sta. 5+17 to Sta. 6+50-96cy
 Sta. 6+79 to Sta. 6+96-13cy
 Sta. 10+74 to Sta. 10+96-8cy
 Sta. 11+81 to Sta. 12+03-18cy



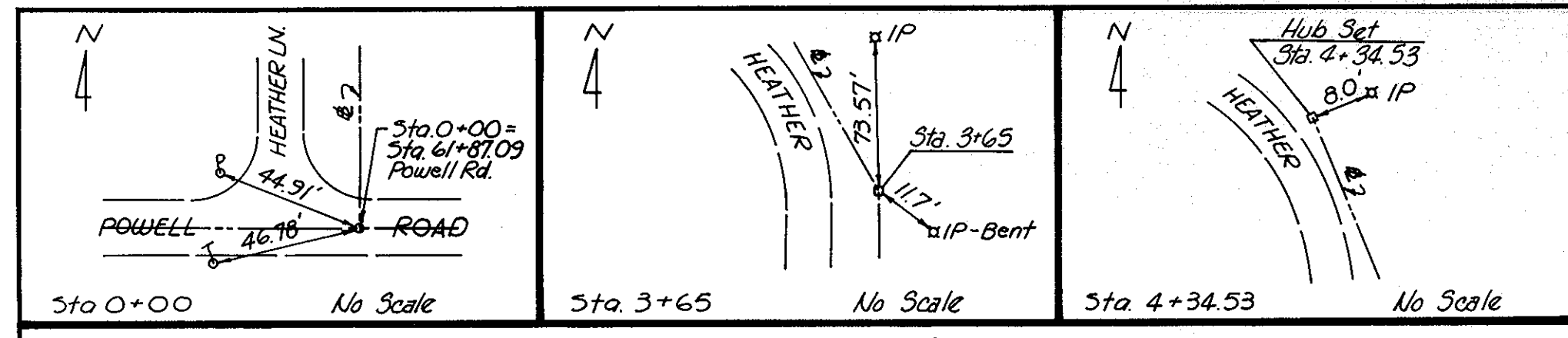
PLAN
 SURVEYED BY: DATE: _____
 NOTE BOOK NO. 13-50-10
 CHECKED BY: L.L.D.
 75 34-95-40



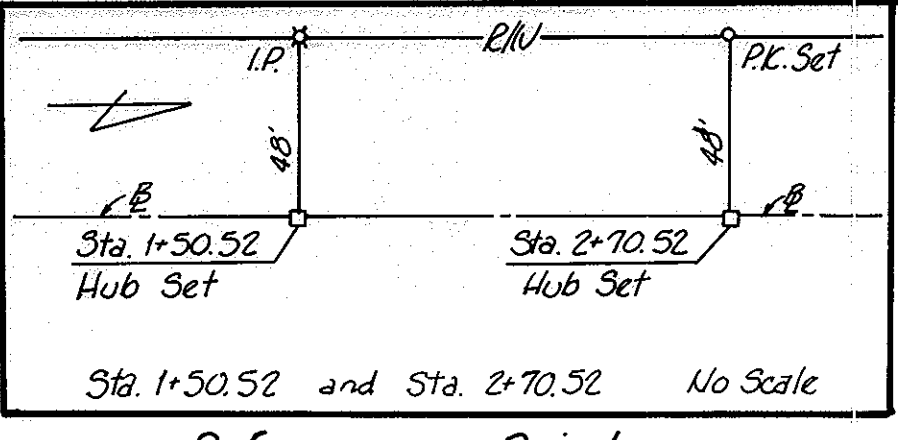
Bench Mark
 Chiseled square on SE corner concrete slab in front of garage @ Res. #300 Heather Ln.
 Elev. 946.84



PROFILE
 SURVEYED BY: DATE: _____
 NOTE BOOK NO. 13-50-10
 CHECKED BY: L.L.D.
 75 34-95-40



Bench Mark
RR Spike 3/5 Power Pole #D21A-61
NW corner Heather Ln &
Powell Rd.
Elev. 941.42



CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

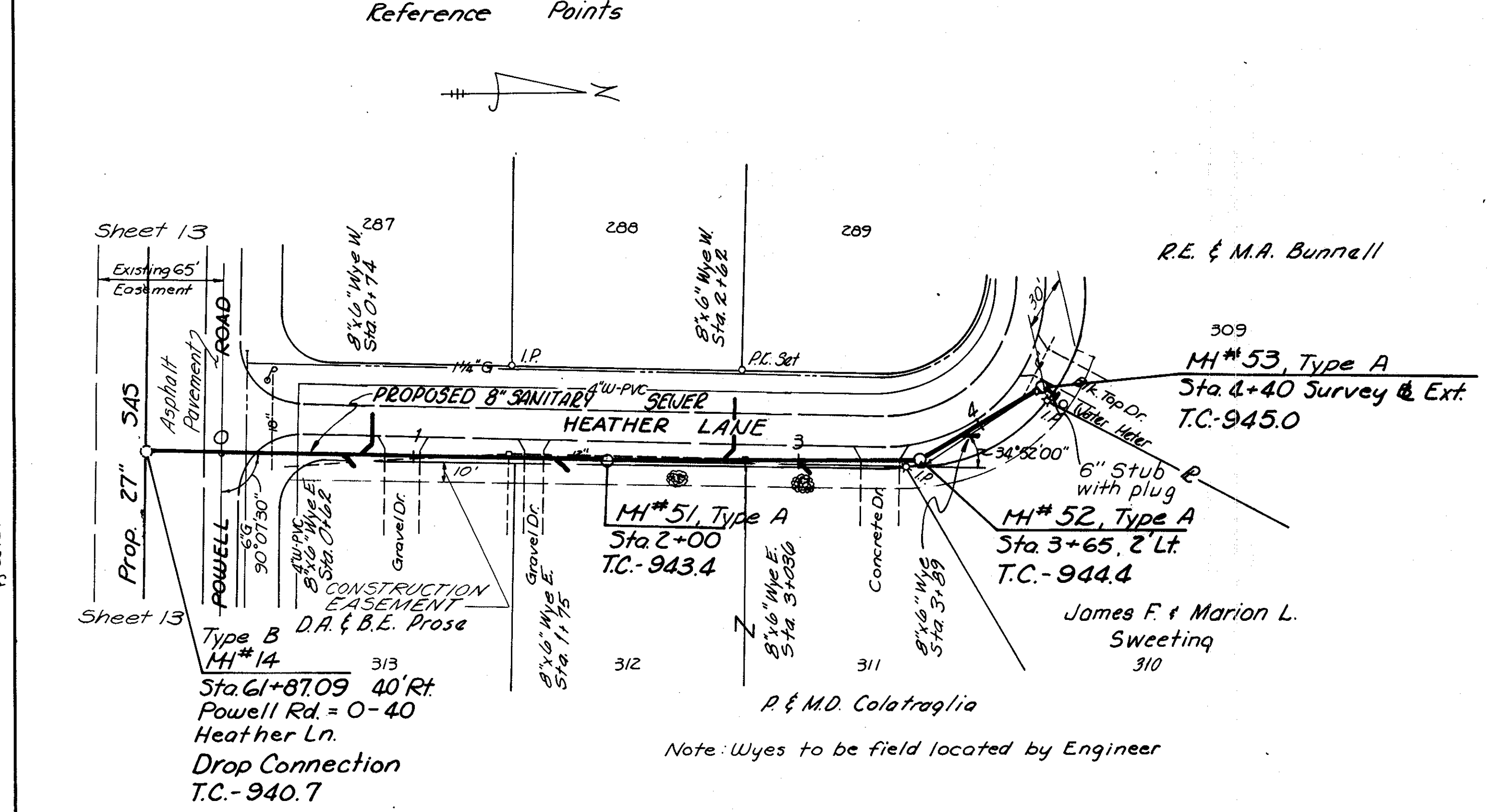
DELAWARE COUNTY SANITARY SEWER
**POWELL ROAD INTERCEPTOR
BURN BRAE BRANCH**

SCALE: 1" = 5' VERT. 1" = 50' HOR. DRAWN BY Breck CHECKED BY L.L.D. DATE: APRIL, 1975 SHEET 22 of 26

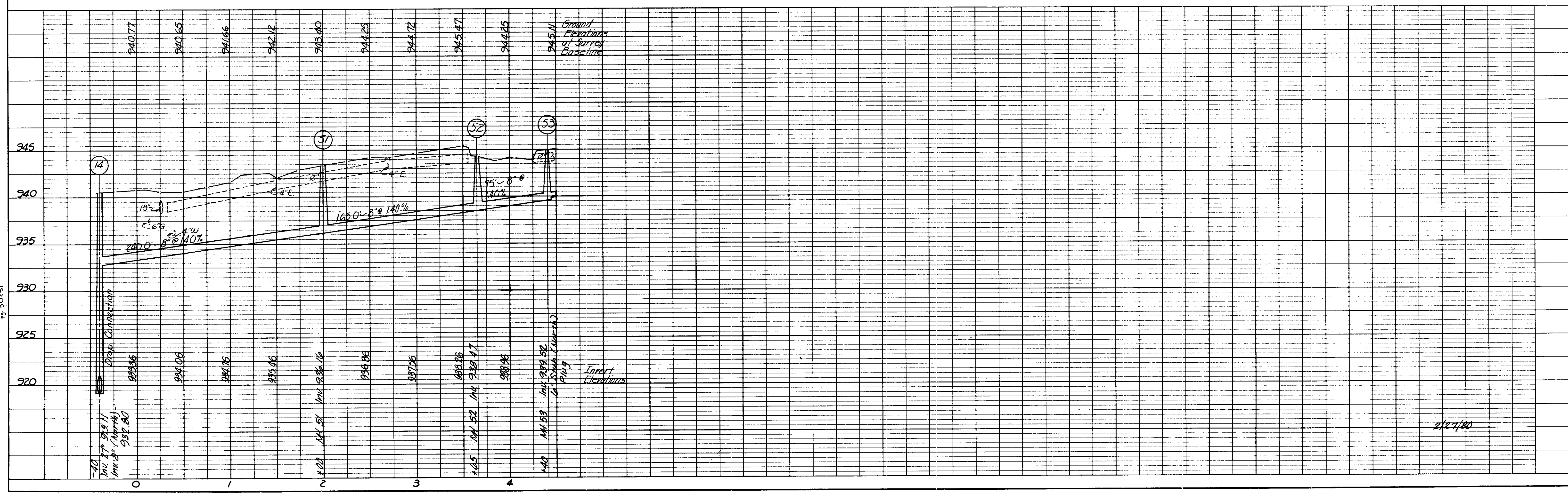
REVISIONS:
12-2-77 Stub Wyes added
8-9-77 Misc.
REVISIONS

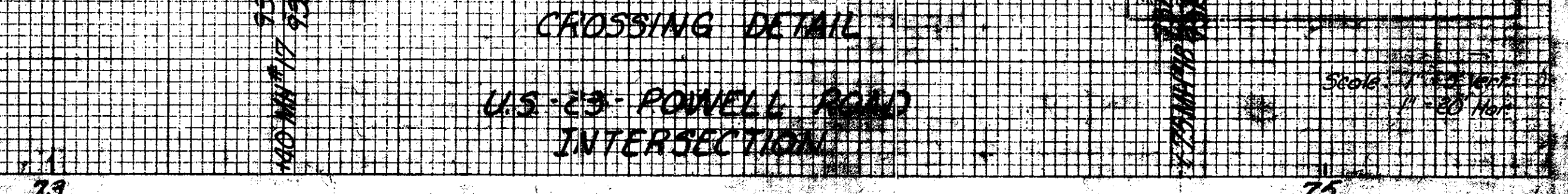
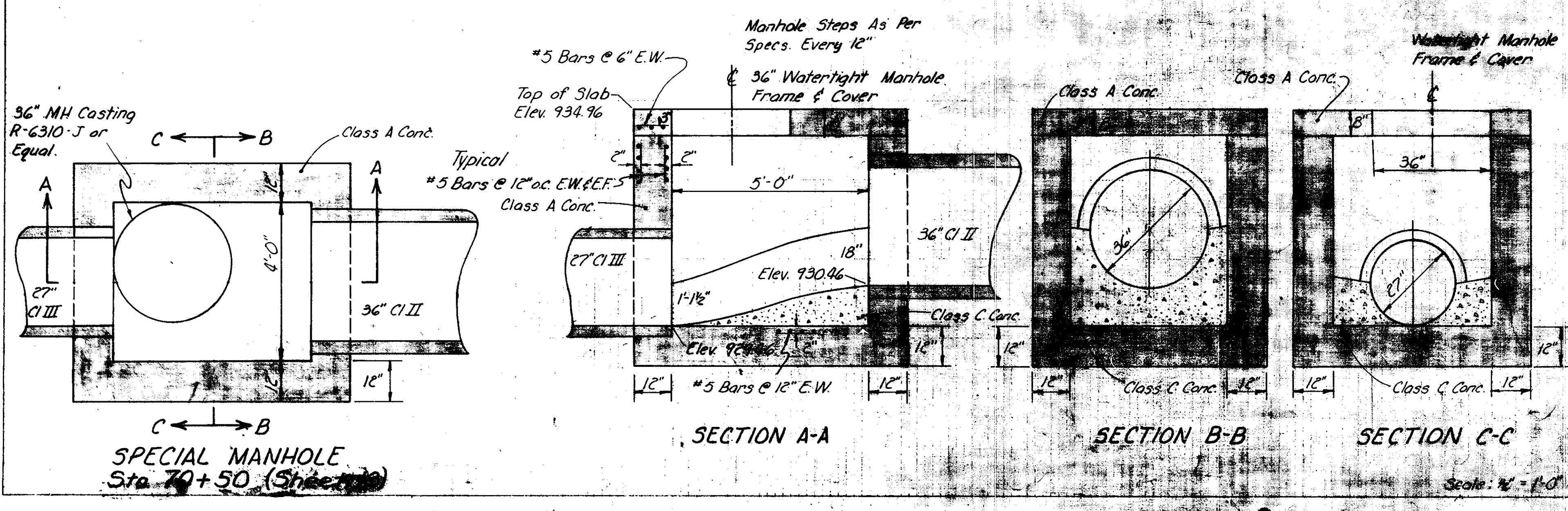
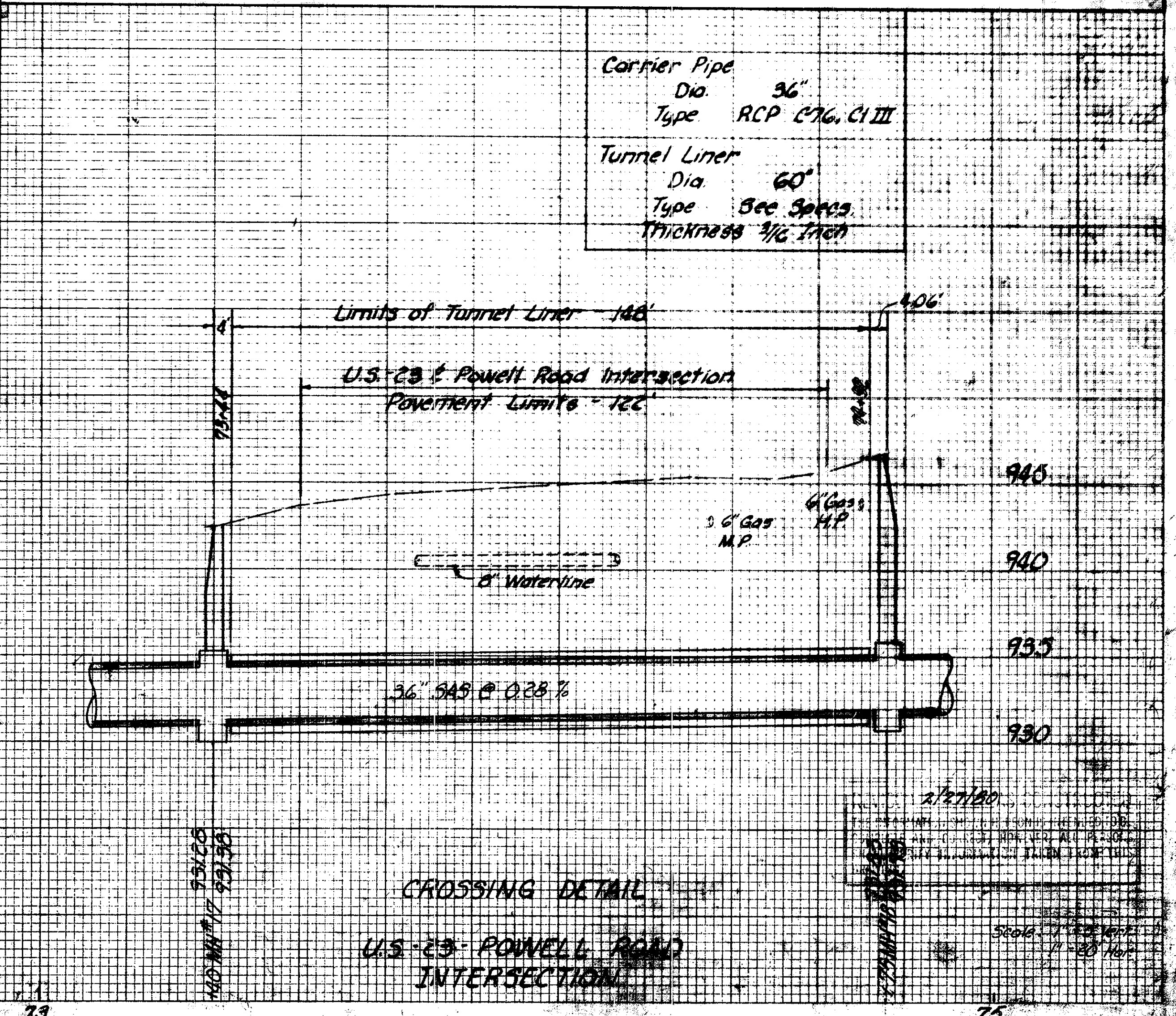
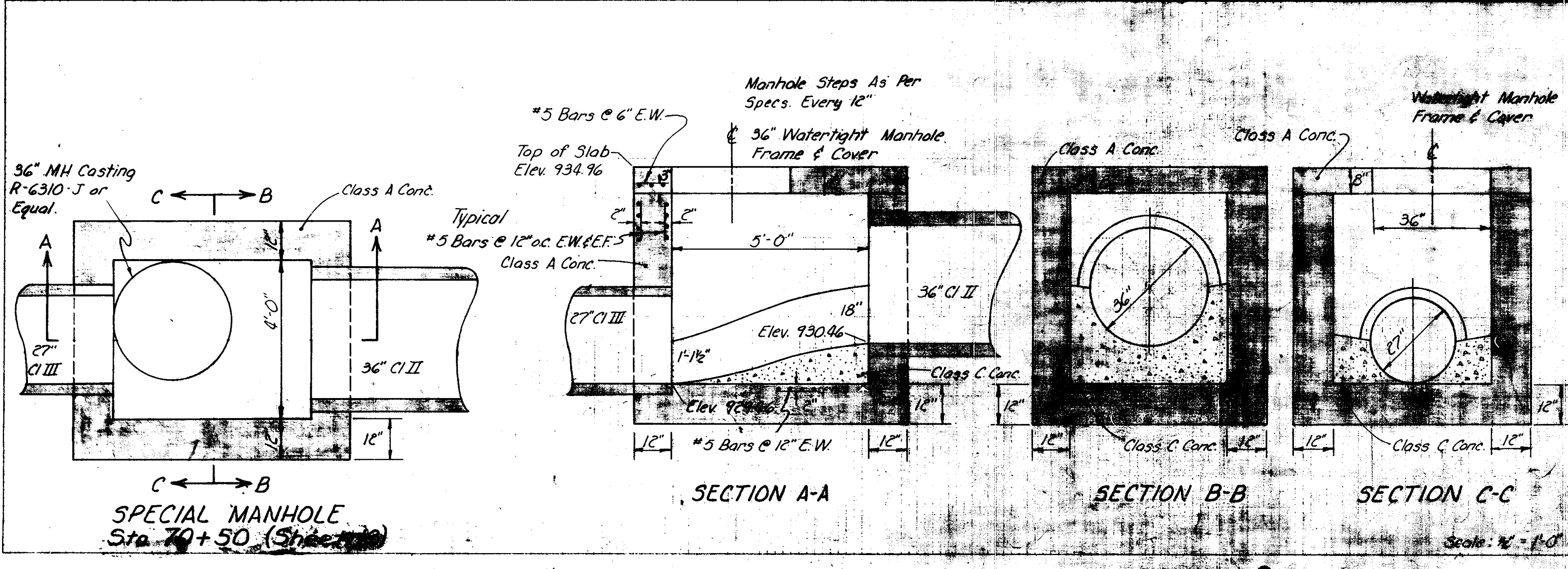
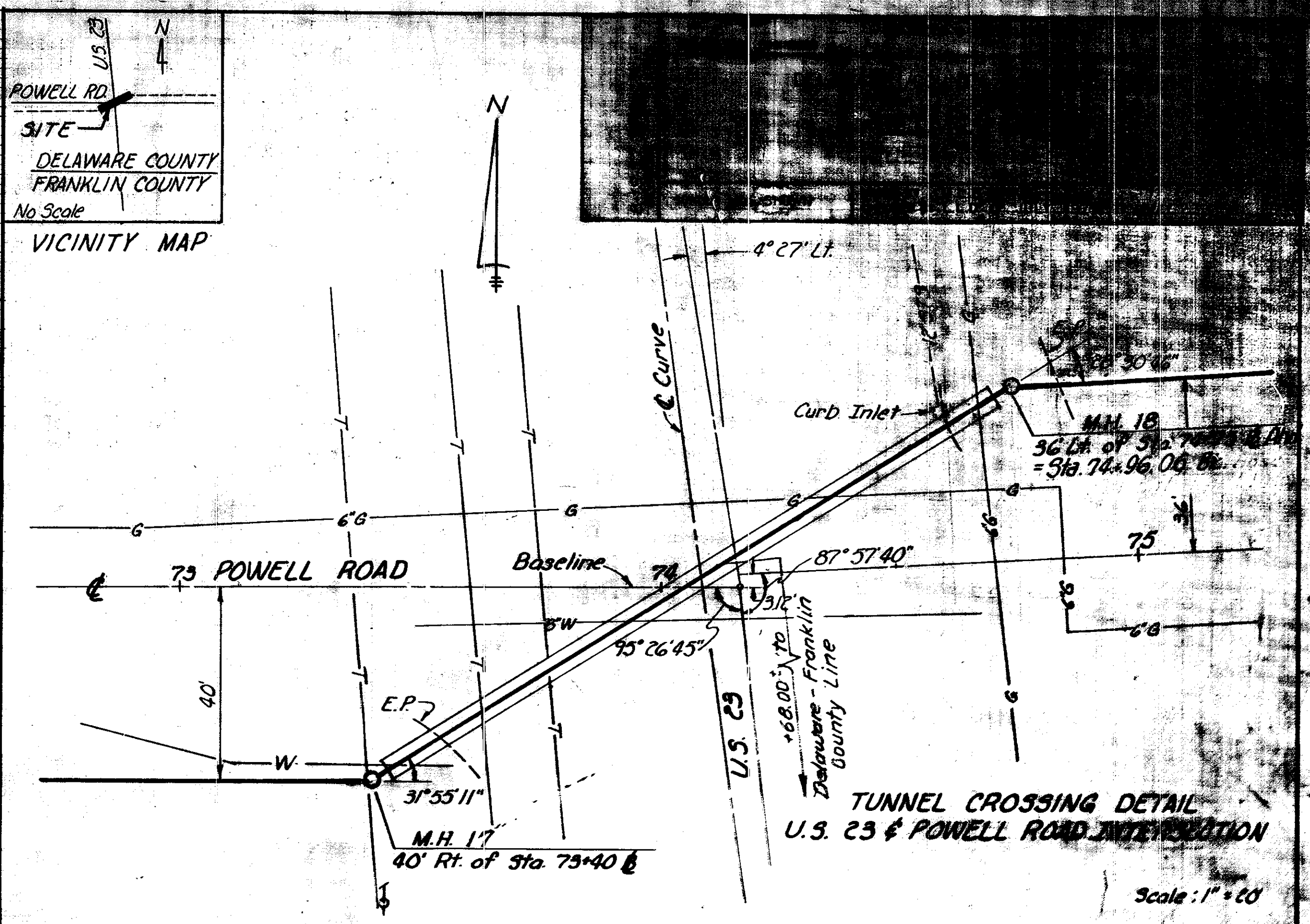
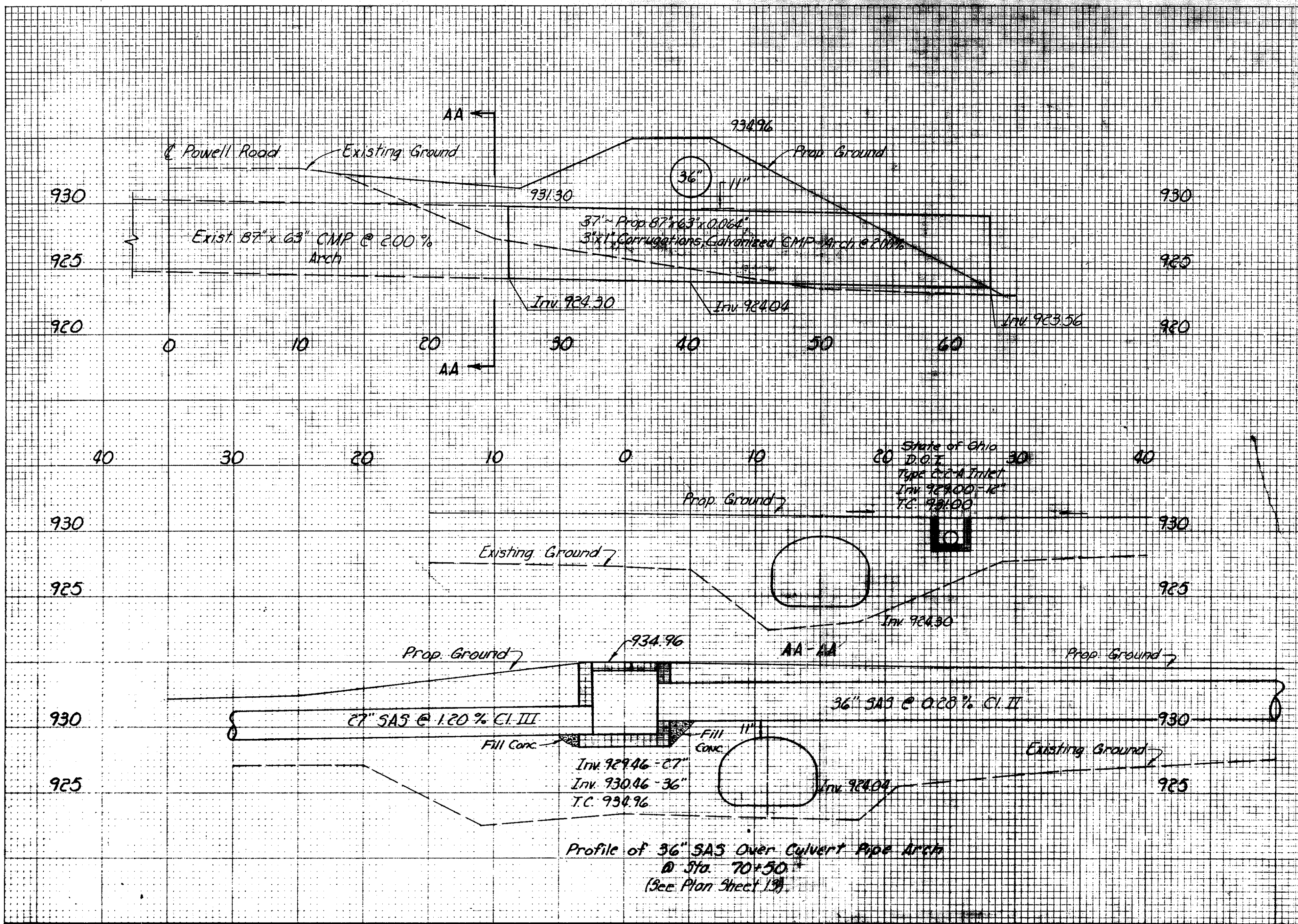
GRANULAR BACKFILL
Sta. 0+09 to Sta. 0+20-18cy.
Sta. 0+85 to Sta. 1+04-11cy.
Sta. 1+57 to Sta. 1+67-6cy.
Sta. 3+32 to Sta. 3+53-12cy.

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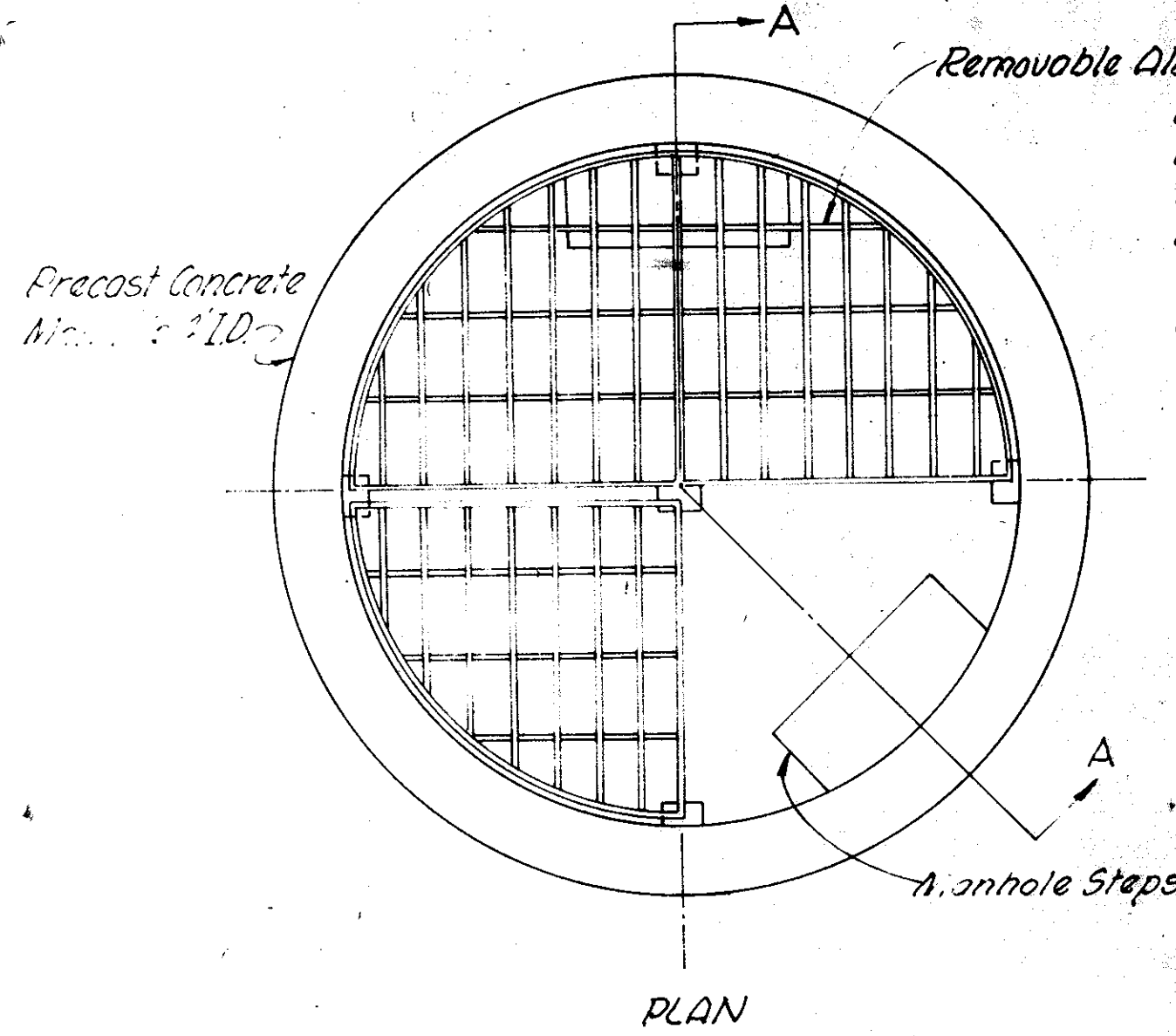


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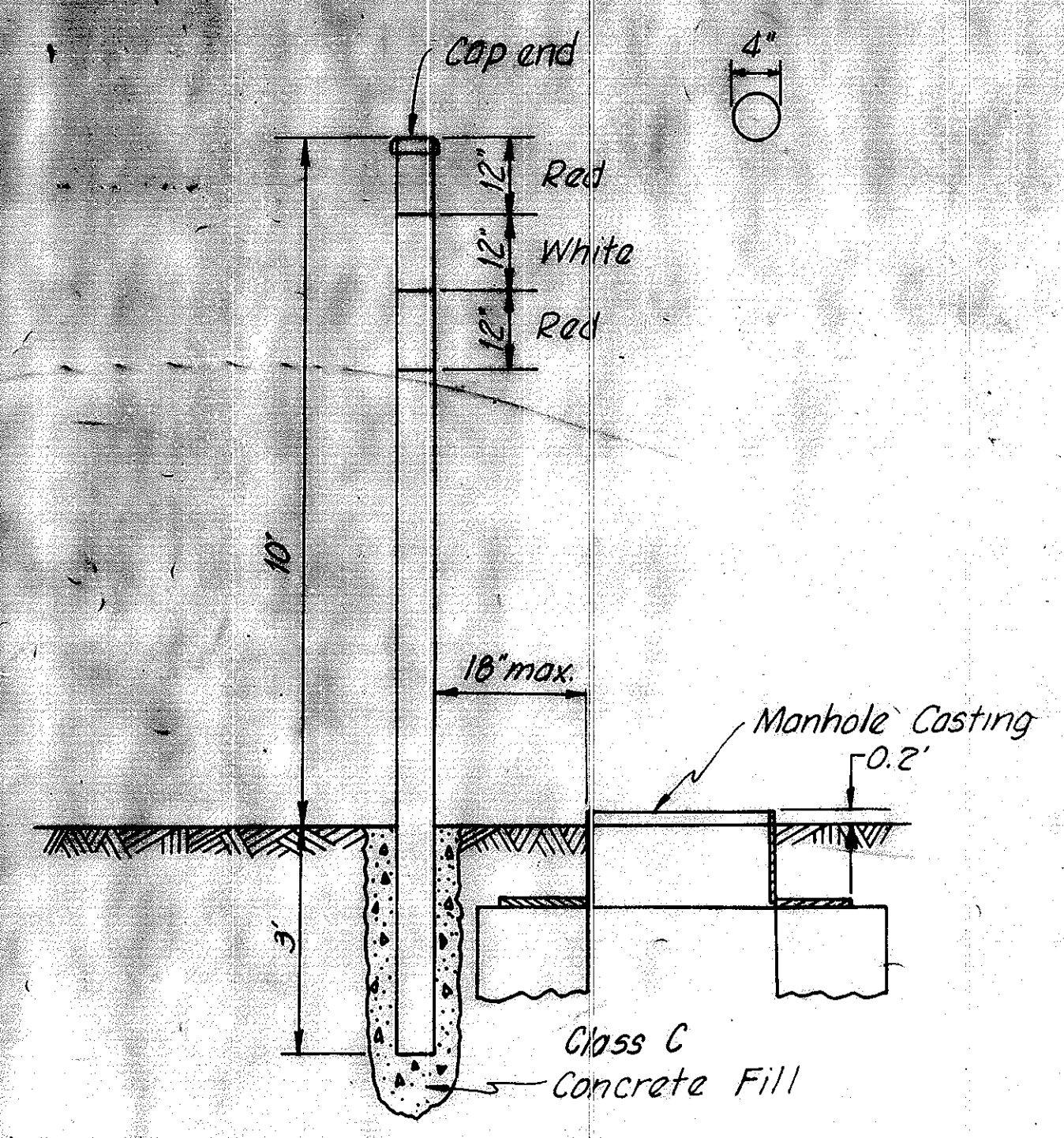
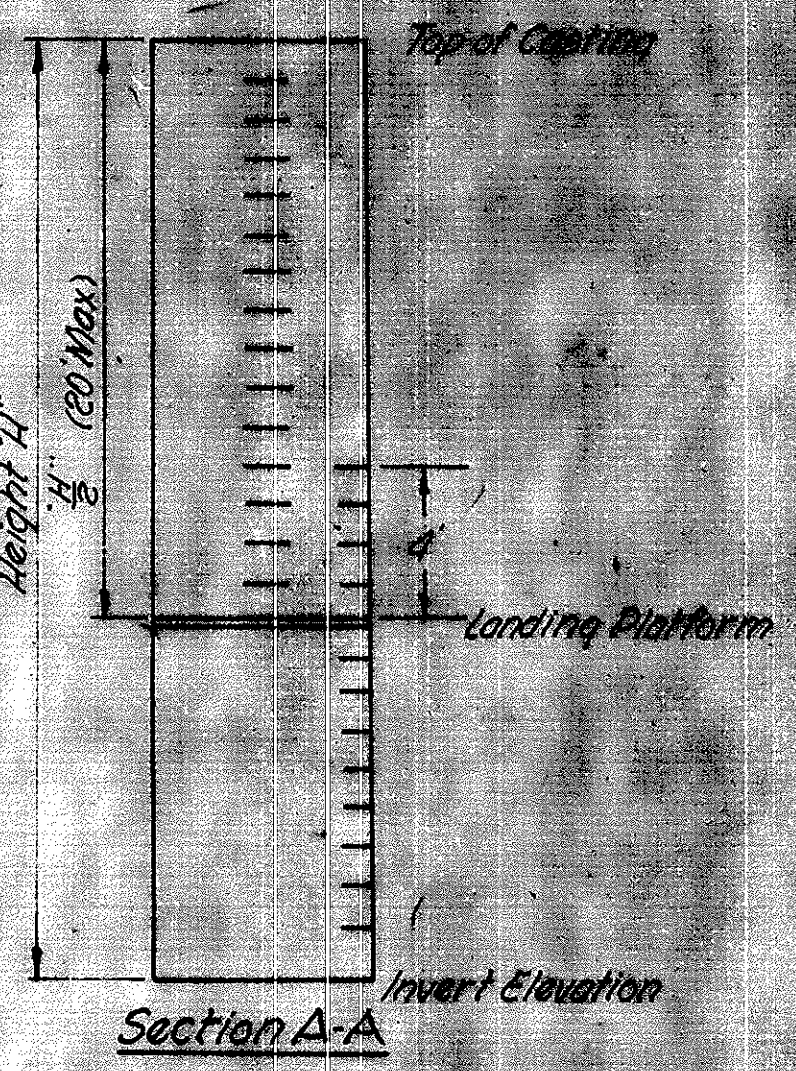
000001



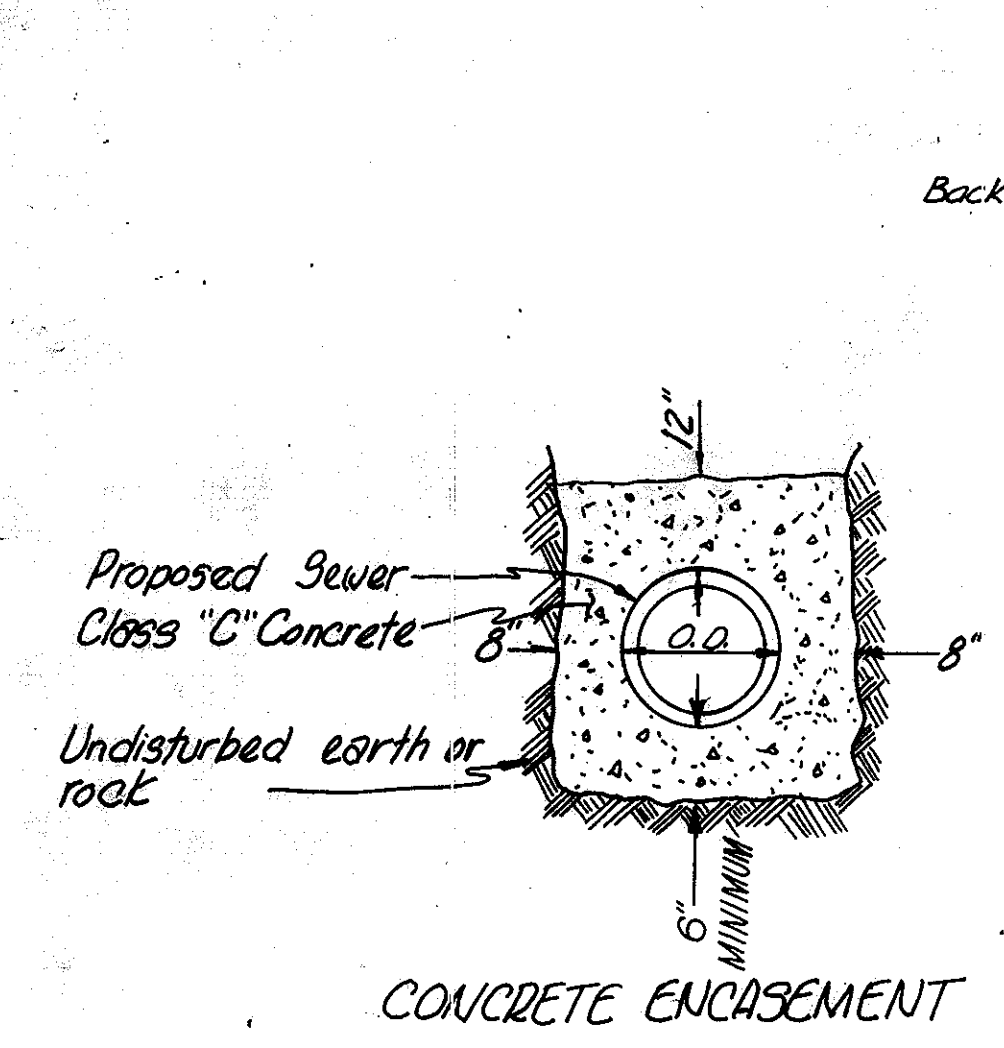
Removable Aluminum grating landing platform
 Aluminum grating shall be of rectangular pressure locked type properly supported by angle frames anchored into concrete. Grating shall be of such construction as to sustain a uniform load of 250 per square foot with a deflection of less than 1/160 of the span. Bearing bars shall not be less than 3/4" thick and a minimum of 1 1/4" in depth. All openings and edges shall be beaded.

Cost of landing platform is included in the contract price for the manhole.

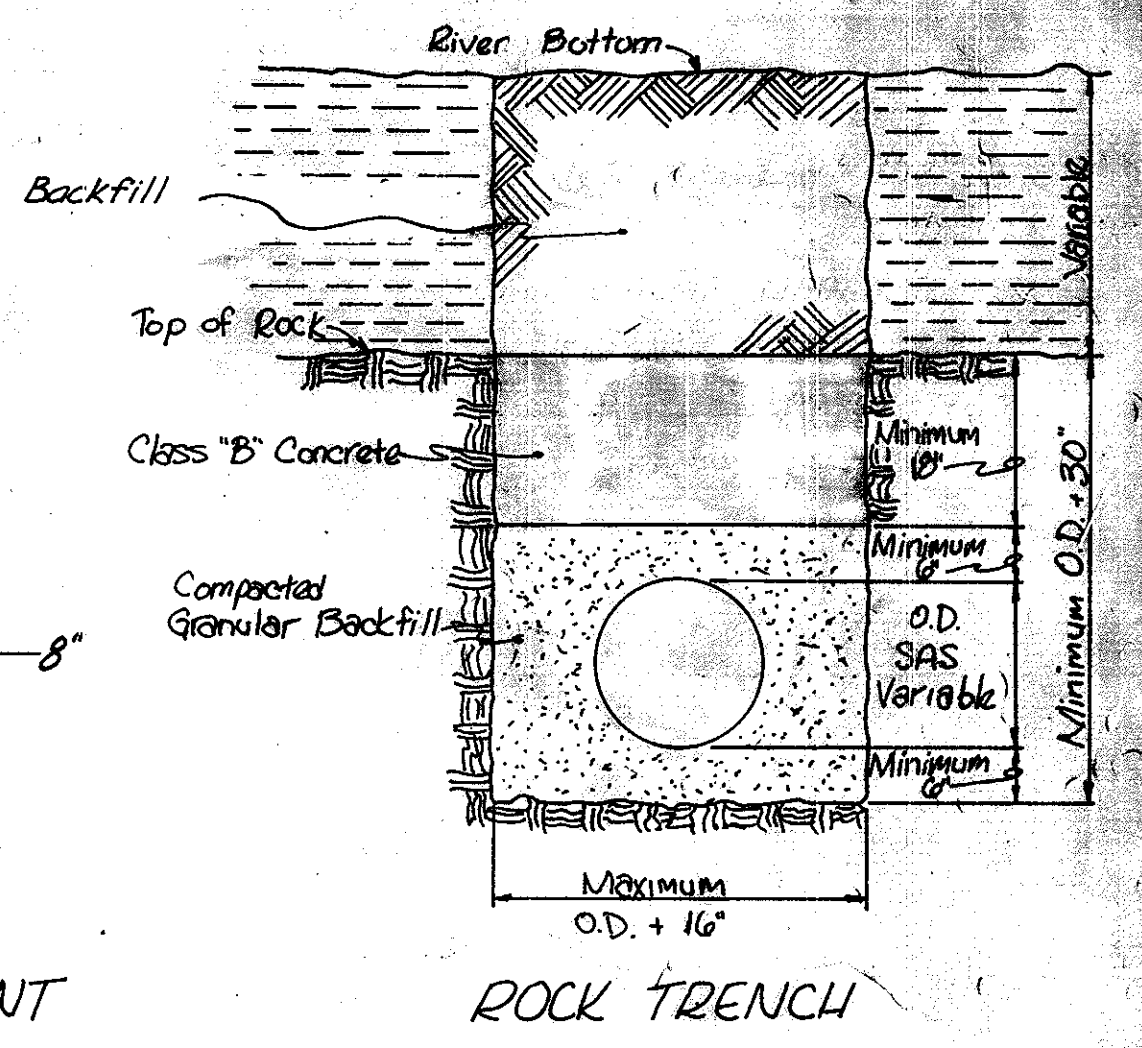
MANHOLE LANDING PLATFORM DETAIL
 For all manholes where H exceeds 19'-6"
 No Scale



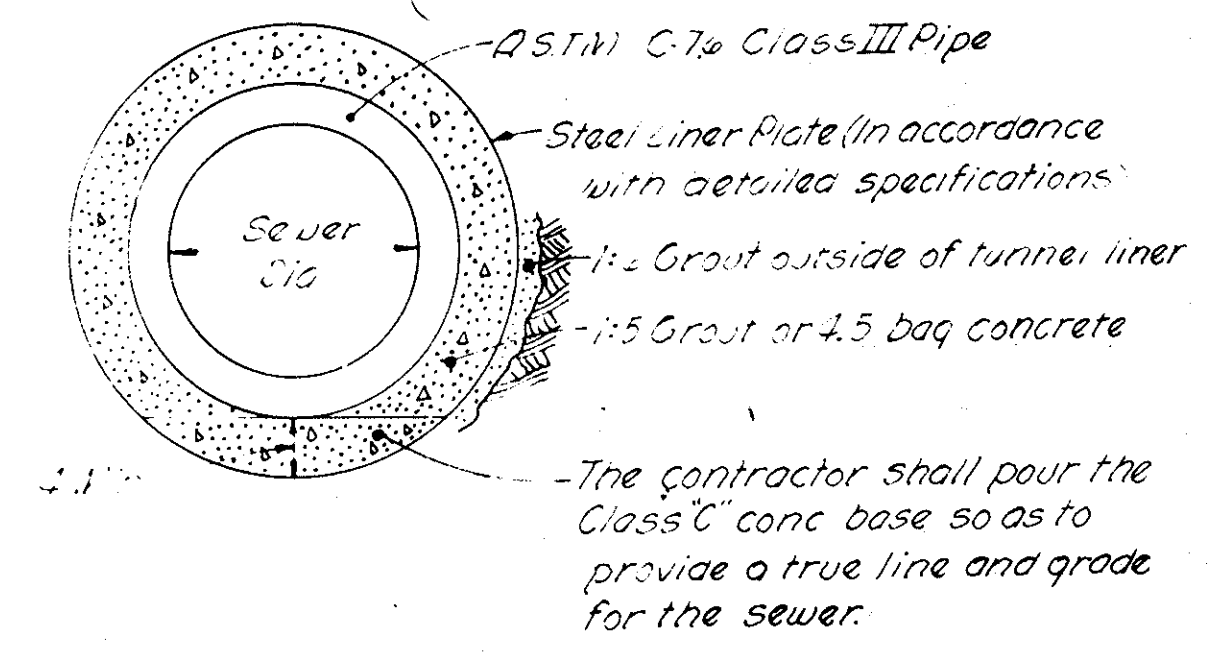
MANHOLE MARKING DETAIL
 No Scale



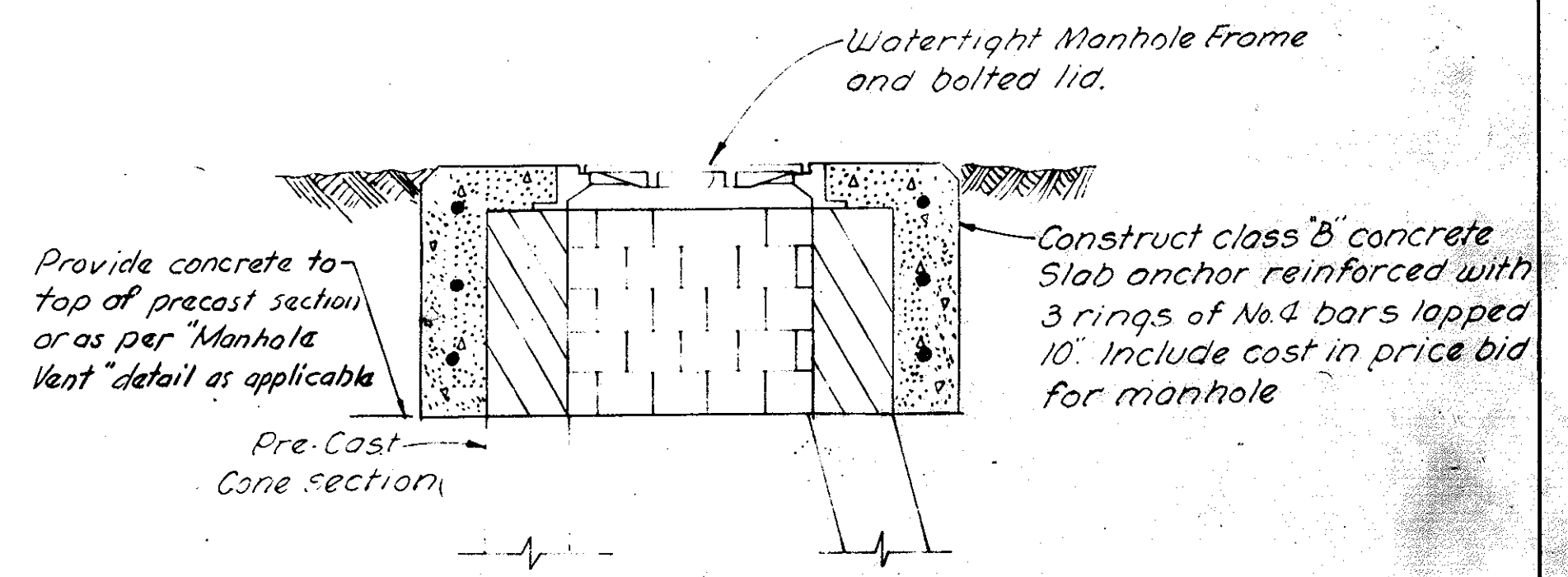
CONCRETE ENCASUREMENT



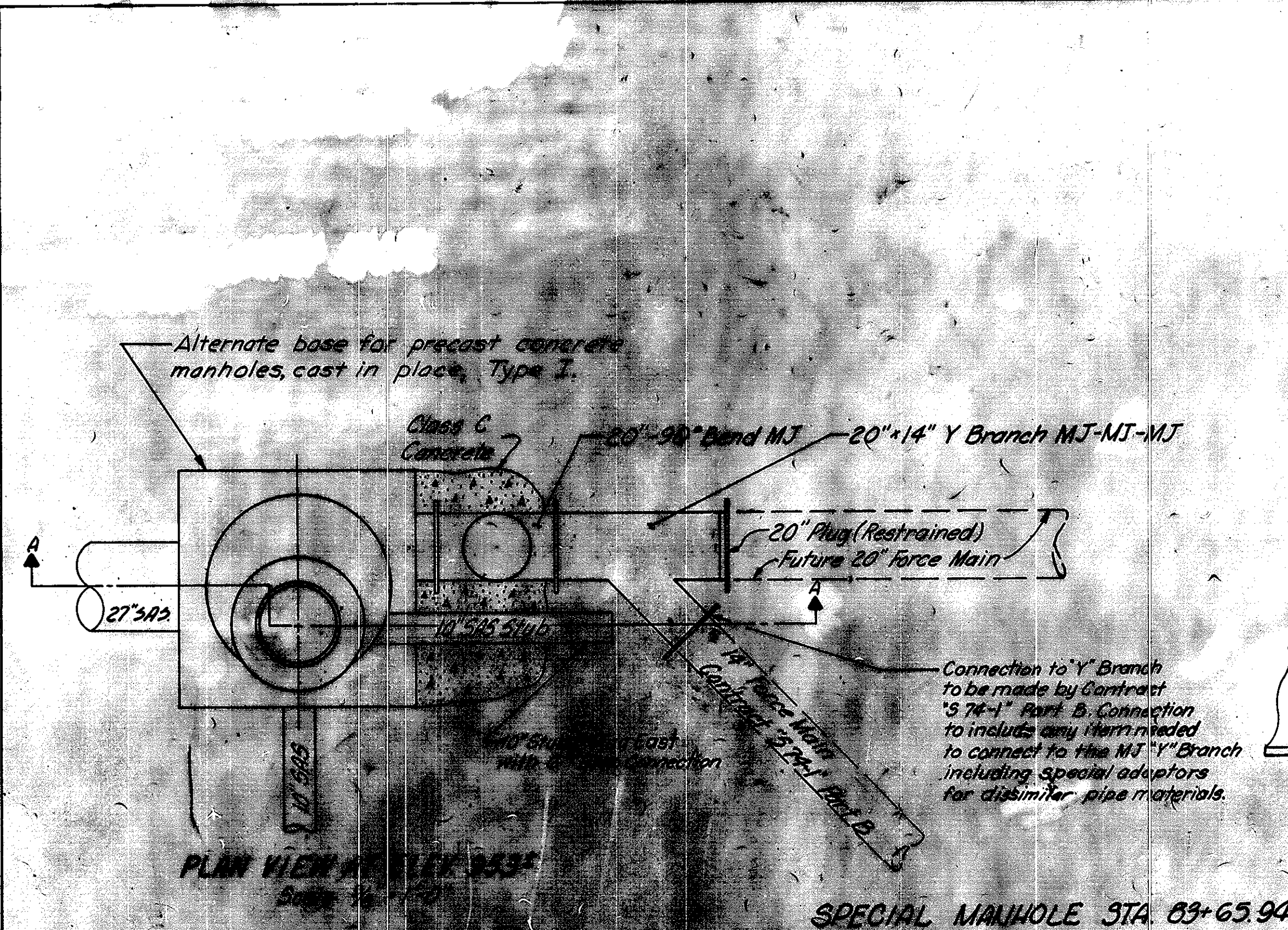
TYPICAL SECTIONS RIVER CROSSING
 No Scale



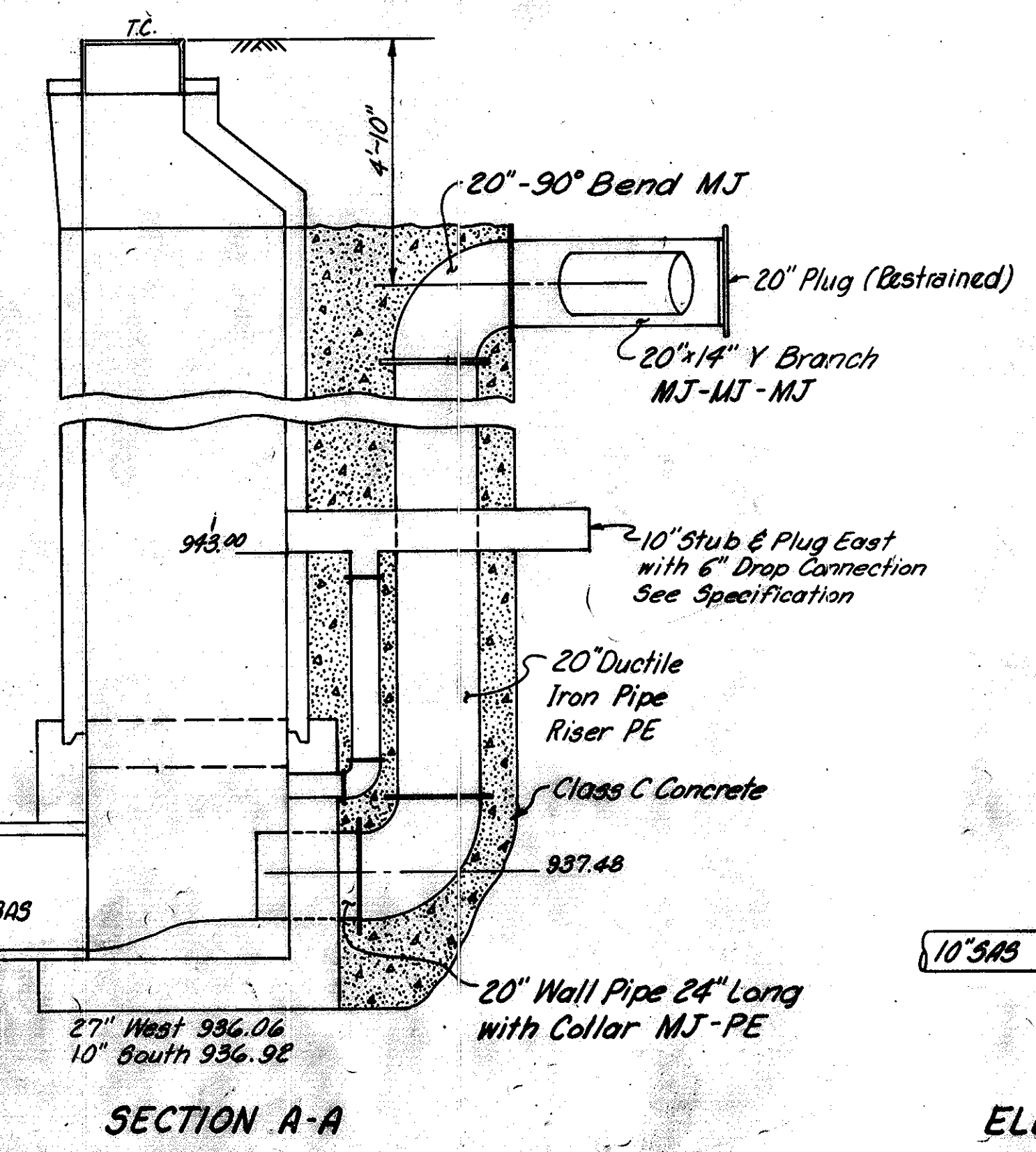
TYPICAL TUNNEL SECTION DETAIL
 No Scale



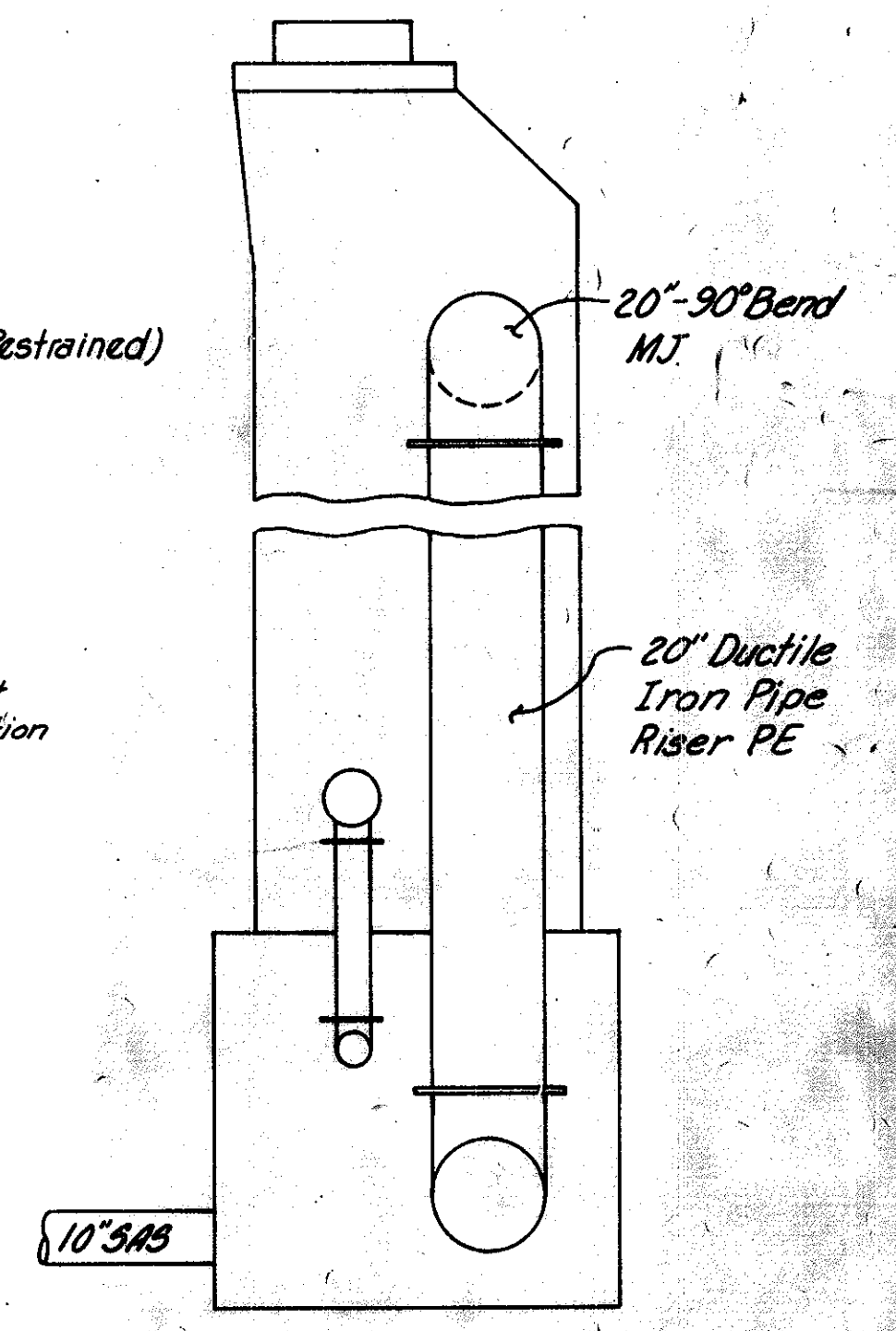
TYPICAL WATERTIGHT MANHOLE CASTING DETAIL
 No Scale
 See General Notes



SPECIAL MANHOLE STA 63+65.94



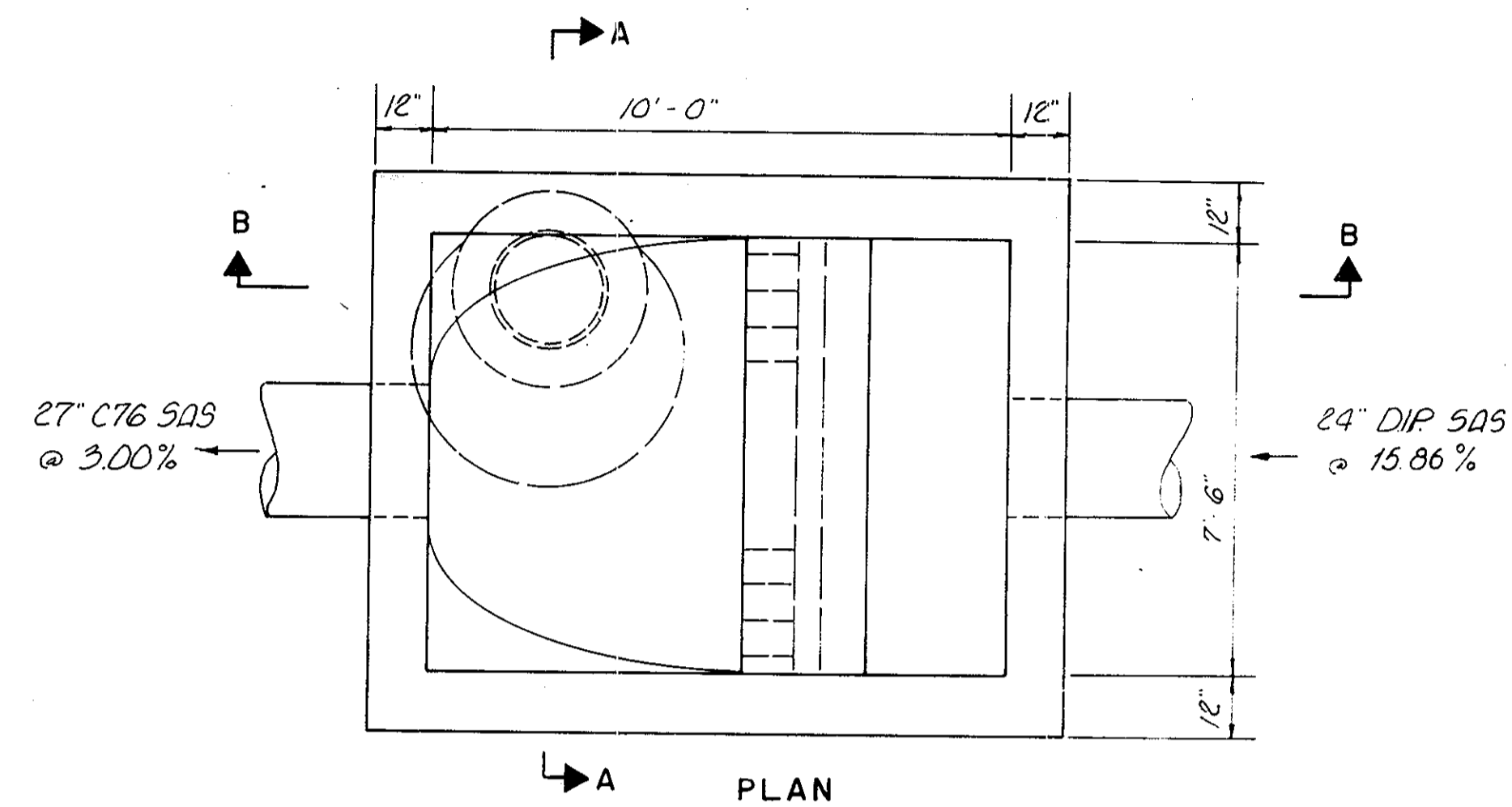
SECTION A-A



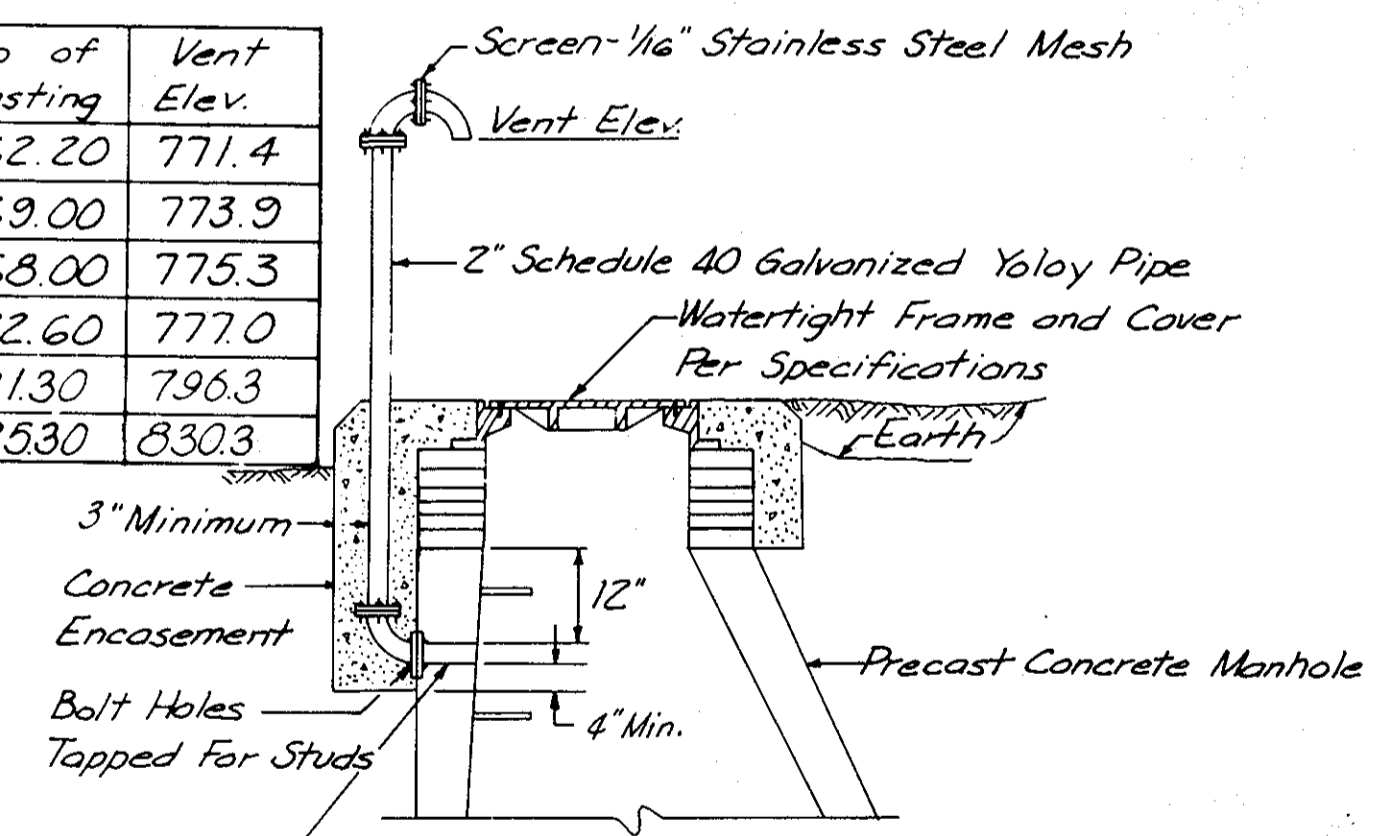
ELEVATION OF MANHOLE

REVISED 2/27/80 AS CONSTRUCTED
 COMPLETE AND CORRECT, HOWEVER, THE CONTRACTOR SHALL VERIFY INFORMATION TAKEN FROM THIS DRAWING.

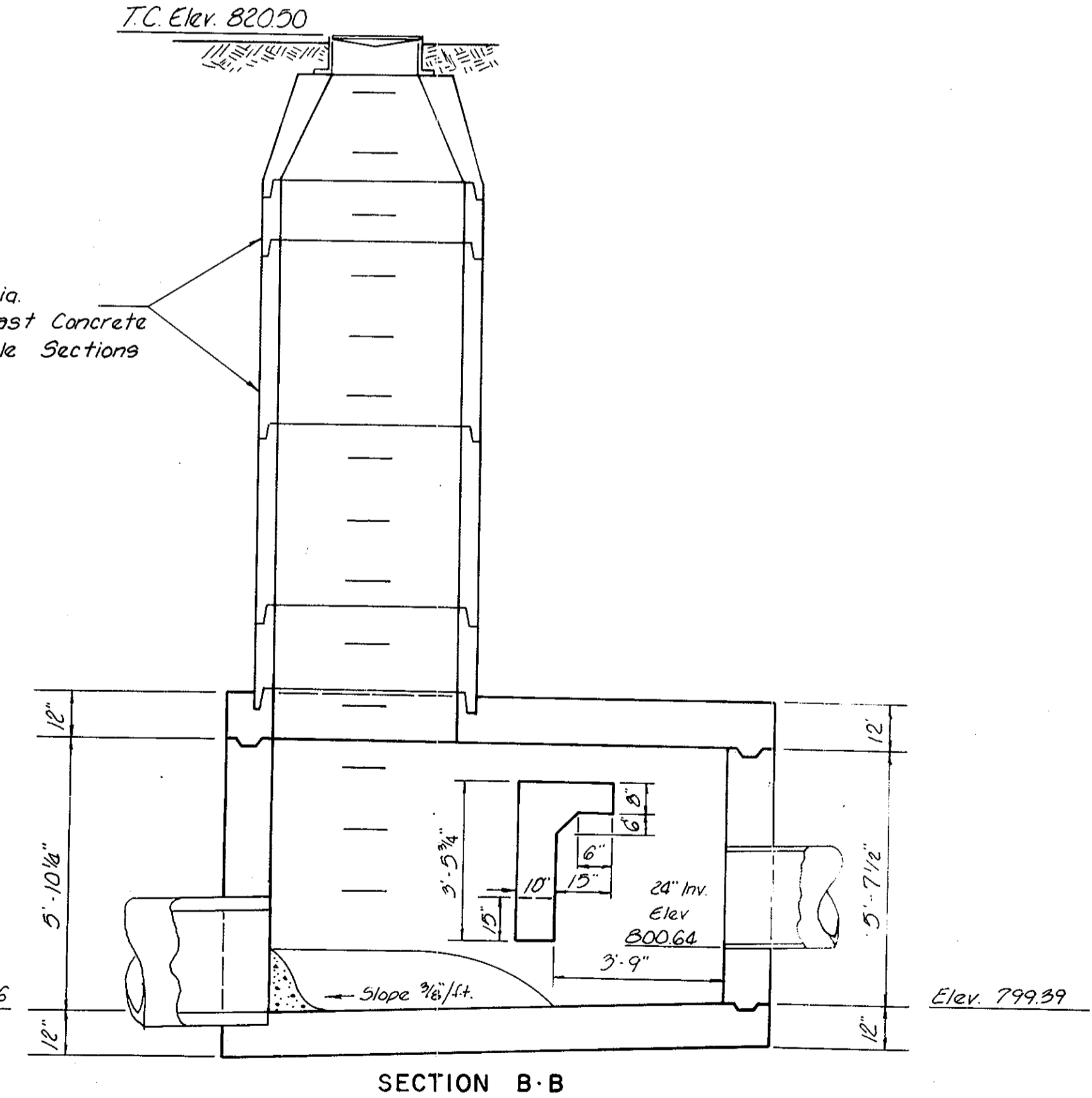
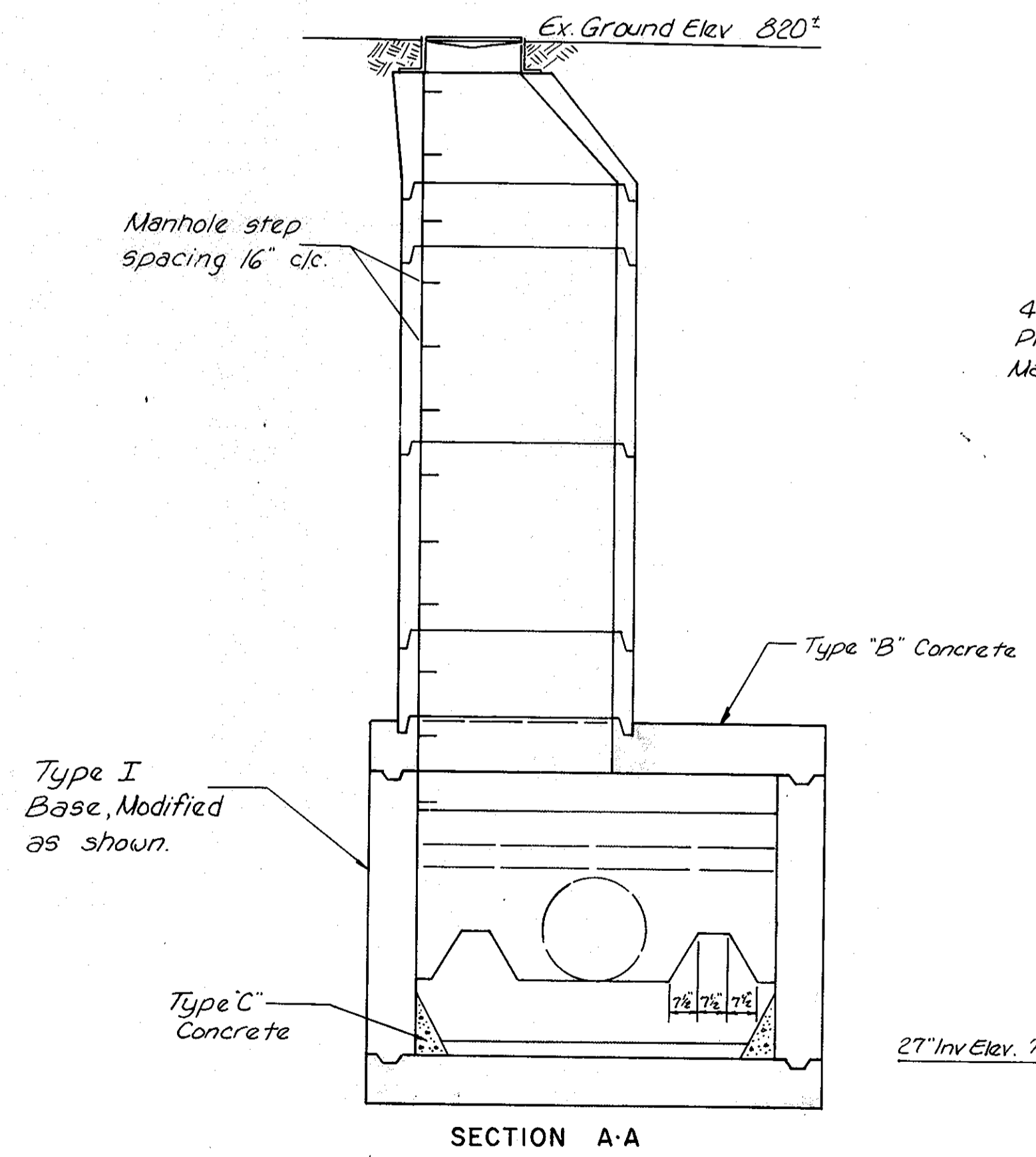
CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO
 DELAWARE COUNTY, OHIO
OLENTANGY RIVER - POWELL ROAD INTERCEPTOR SANITARY SEWER MISCELLANEOUS DETAILS
 SCALE AS SHOWN DRAWN BY KPC CHECKED BY DATE JULY, 1975 SHEET 26 OF 26



Manhole Number	Top of Casting Elev.	Vent Elev.
C	762.20	771.4
H	769.00	773.9
K	768.00	775.3
P	772.60	777.0
30	791.30	796.3
34	825.30	830.3



Cost of Vent to be included in price bid for Manholes.



MANHOLE No. 4 DETAIL
SCALE: 3/8" = 1'-0"

REVISED 2/27/80 AS CONSTRUCTED
 ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF. FOR MORE INFORMATION REFER TO THE SHEET VENTILATION TABLE FROM THIS DRAWING.