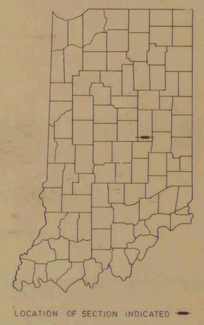
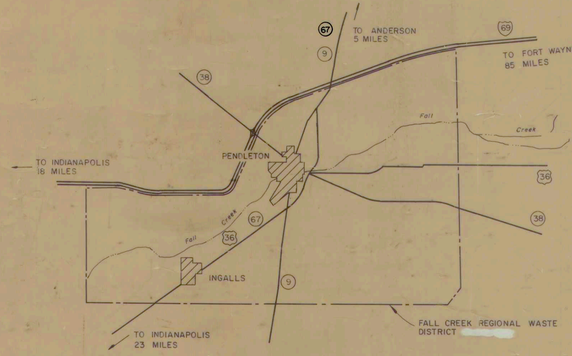
DIV A & B

FALL CREEK REGIONAL WASTE DISTRICT WASTEWATER FACILITIES

DIVISION 'A' - INGALLS COLLECTION SYSTEM
DIVISION 'B' - PENDLETON SEWER IMPROVEMENTS AND REFORMATORY LIFT STATION



LOCATION OF SECTION INDICATED



PLANS PREPARED BY:

BEAM, LONGEST & NEFF, INC.

CONSULTING ENGINEERS

INDIANAPOLIS, INDIANA

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

Eric Reske March 30, 1983
CERTIFIED DATE

RECORD DRAWING

APPROVED BY:

William Clark
WILLIAM CLARK - PRESIDENT

Marvin Kelly
MARVIN KELLY - VICE PRESIDENT

Morris McCurdy
MORRIS MCCURDY - TREASURER

Robert Post
ROBERT POST - SECRETARY

Hugh Begley
HUGH BEGLEY MEMBER

Robert G. Buss
ROBERT BUSS MEMBER

John Ellingwood
JOHN ELLINGWOOD MEMBER

CHARLES HENNIS MEMBER

PAUL STONER MEMBER

3-30-83
DATE

GENERAL NOTES

1. Not all GAS, POWER or TELEPHONE LINES, whether above or below ground, have been shown on the drawings. The location of existing underground utilities, such as Sewer, Field Tile, etc. as shown on the drawings have been determined from the best available information and are given for the convenience of the Contractor. The Contractor must assume responsibility for all utilities, whether shown or not, and must realize that the actual location of the utilities shown on the drawings may be different from the location indicated.

2. All existing utilities encountered in the work shall be the Contractor's responsibility to maintain in service. Any utilities which can be removed during construction with undue interruption to service may be removed and replaced by the Contractor with the permission of the owner of the utility.

3. Before working with or around utilities, the applicable utility companies shall be contacted by the Contractor.

4. All excess excavated material shall be disposed of by the Contractor unless specifically noted otherwise on the drawings or in the specifications.

5. Contractor shall be responsible for dust control due to installation of any of the proposed work in residential or built-up areas, all at no additional cost to the owner.

6. Where property markers, section corners, survey marks, and city bench marks, such as stones, pipes, or other monuments are encountered, the Engineer shall be notified before they are moved. The markers shall be protected and preserved until the owner, an authorized surveyor or agent, has witnessed or referenced their location.

7. Where pipe lines are repaired or replaced, the repair material shall be similar to the existing pipe.

8. Contractor is required to install manholes as shown. Permission from the Engineer or his representative is required for any addition or modification. At the completion of work, the Contractor must verify manhole elevations for any additions or modifications.

9. Inverts shown at manholes are to be center of manhole unless otherwise noted.

10. Approximate soil boring locations are shown on the appropriate plan sheets for both the sewer system and the plant. The soil boring logs can be purchase or viewed through the Engineers office.

11. The Contractor shall make all measurements and check all dimensions necessary for the proper installation of the work called for by the drawings and specifications, and during the prosecution of the work, he shall make all necessary measurements to prevent misfitting in said work; and he shall be responsible therefore, for the accurate construction of the entire work.

12. Work done without lines and grades being given, work done beyond the lines and grades shown on the plans or as otherwise given, extra work done without authority or any other work which fails to comply with the Contract Documents will be considered unauthorized and at the expense of the Contractor, and will not be paid for by the Owner.

LEGEND

- Billboard
- Light Pole
- Power Pole
- Telephone Pole
- Guy Pole
- R.R. Flasher
- Railroad
- Survey Control Point
- Fire Hydrant
- Drop Inlet
- Curb Inlet or Catch Basin
- Water or Sewer Manhole
- Mailbox
- Sign
- Yard Light or Lamp Post
- Structure
- Tree
- Stream, Ditch, Water Edge
- Swamp
- Road Paved
- Road Unpaved
- Culvert or Bridge
- Guard Rail
- Proposed Grinder Pumping Station
- Permanent Easement (as labeled)
- Fence
- Evergreen
- Curb
- Sidewalk
- Contour-Index
- Contour-Intermediate
- Spot Elevation (976x3)
- Contour Elevation (976)
- Soil Borings (B-1)
- Existing Sewer Manhole
- Existing Sewer
- Existing Gas Line
- Existing Telephone, Buried
- Existing Water Line
- Existing Buried Electric Power
- Telephone Manhole, Buried
- Proposed Sewer Manhole w/Number
- Force Main, Air Release Valve
- Force Main, Clean Out
- Force Main
- Proposed Gravity Sewer
- Proposed Sliplining
- Proposed Test-Seal-Test
- Proposed Pumping Station
- Temporary Easement (as labeled)
- Apparent Property Line (100')

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UTILITIES

UTILITY	ADDRESS	CONTACT PERSON
Gas (Ingalls)	Indiana Gas Company 112 W. South Street Greenfield, Indiana 46140	Mr. Ray Crickmore (317)462-6631
Gas (Fall Creek, Pendleton)	Indiana Gas Company P.O. Box 2010 Anderson, Indiana 46018	Mr. Brooks Barrick (317)642-8051
Gas (Supply)	Panhandle Eastern Pipeline Co. 9371 Zionsville Road P.O. Box 15 Zionsville, Indiana 46077	Mr. Russ Oden (317)873-2410
Telephone (Ingalls)	United Telephone Co. of Indiana 714 E. Broadway Fortville, Indiana 46040	Mr. Larry Talbot (317)485-6441
Telephone (Pendleton, Areas South of Fall Creek)	General Telephone Company North Pendleton Avenue Pendleton, Indiana 46064	Mr. Bruce LaMar (317)778-7575
Telephone (South Anderson)	Indiana Bell Telephone Co. 333 S. Madison Street P.O. Box 2447 Muncie, Indiana 47302	Mr. Dave Flack (317)644-8801 Cable Locating: (800)382-5544
Electric Power (Ingalls, Pendleton, U.S. 36, Pendle Hill)	Public Service Indiana 100 S. Mill Creek Road Noblesville, Indiana 46060	Mr. Tim Umbaugh (317)773-1980
Electric Power (S. Anderson, Fiddler's Green, Mara Meadows)	Anderson Municipal Power & Light 550 Baxter Road Anderson, Indiana 46011	Mr. Mike Smith (317)646-5681
Electric Power (Pendleton)	Pendleton Municipal Utilities 119 W. State Street P.O. Box 230 Pendleton, Indiana 46064	Mr. Jack Guard (317)778-2173
Water & Sewer (Pendleton)	Pendleton Municipal Utilities P.O. Box 230 Pendleton, Indiana 46064	Mr. Jack Guard (317)778-2173
Water & Sewer (Ingalls)	Ingalls Water Utility Town Hall Ingalls, Indiana 46048	Mr. Bob Wiley (317)485-4321

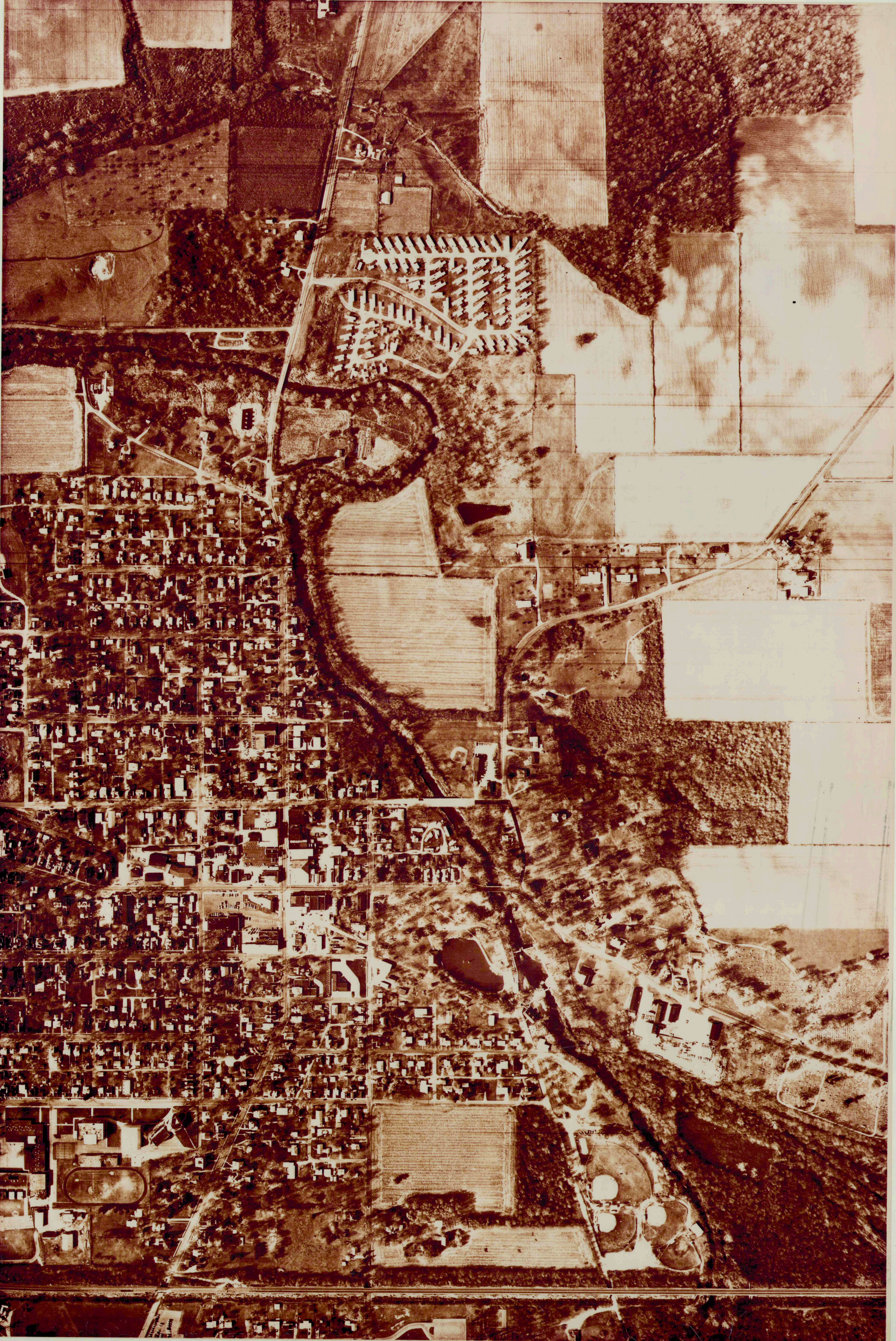
RECORD DRAWING

ERIC RESKE REGISTERED No.13442 STATE OF INDIANA PROFESSIONAL ENGINEER 5-30-89

INDEX AND GENERAL INFORMATION

Scale: N/A	FALL CREEK REGIONAL WASTEWATER DISTRICT	Sheet 2
Drawn By: J.B.	BEAM, LONGEST & NEFF	
Designed By: N/A	Consulting Engineers 8136 Castleton Road Indianapolis In. 46250	
Certified By: E.R.		

MARBAUGH N26508



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PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/W CHECKED, R.W.T. NOTED, STRUCTURE NOTATNS.CHKD. — NOTE BOOK — NO. — BY — DATE

ALLEY NO. 9

5' Temp. Easement for Constr.

112°00'00"

REFORMATORY ROAD

See Sht #18

See View @ Left

See View @ Right

App. ℄

MH (2A)

MH (2)

Storm Sewer

Note ~ Paying to Replace 398' of Ex. 8" Storm Line in Direct Conflict w/ New 8" San. Sewer

5' Temp. Esmt for Constr.

45+56.96 Reformatory Rd.
46+22.40 Meridian St.

MH (1)

8" Id.

6" Force Main

Perm. R/W for Lift Sta.

Lift Station

Temp. Esm't for Constrs.

Temp. Esm't for Constr.

+80.5, 14" 12" CMP

+41, 11" 12" CMP

ALFONTE STREET

42+04.39 Reformatory Rd.
34+89.07 Alfonte St.

See Below Right

MERIDIAN STREET

6"W

Drop MH (2A) 146.11 Rt.

146.40 Rt.

12" CMP

8" Storm

El. 850.18 "N"

El. 849.67 "E"
El. 849.72 "W"
El. 849.93 "S"

390.7'-8" @ 1.59 %

Drop MH (2) 146.11 Rt.

146.9 Rt.

El. 849.67 "E"
El. 849.72 "W"
El. 849.93 "S"

See Sht #18

520.7'-8" @ 0.44 %

El. 835.87 "S"
El. 835.86 "E"
El. 847.37 "W"

Drop MH (1) 147.12 Rt. Lift Station 147.29 Rt.

4' Min Bury

6" Force Main

El. 835.50 "N"

El. 835.87 "W"
El. 835.84 "S"
El. 838.38 "E"

Lift Station Floor El. 830.00

See Sht #10

202.7'-8" @ 0.006 %

15'-8" @ 2.53 %

church

39+45.75 Meridian St.
6+54.91 Fifth St.

FIFTH STREET

ALLEY NO. 7

MH (6)

MH (5)

MH (4)

Removed

App. ℄ 7

6"W

Drop MH (6) 8.72 Lt. Fifth St. 361' Lt.

MH (5) 8.21 Fifth St. 5' Lt.

MH (4) 8.21 Fifth St. 382' Lt.

6" Water

Gas

El. 857.26

El. 854.2 "W"
El. 854.42 "N"
El. 855.68 "S"

El. 856.00

365.3'-8" @ 0.43 %

325.9'-8" @ 0.50 %

44+43.51 Meridian St.
0+00.00 Sixth St.

church

MERIDIAN STREET

SIXTH STREET

See Sht #6

See Above

REFORMATORY ROAD

MH (3)

MH (2A)

MH (2)

Drop MH (3) 130.11 Lt.

Gas

MH (2A) 136.5' Lt.

Drop MH (2) 6.21 Rt.

El. 838.75 "N"
El. 838.75 "W"
El. 850.96 "E"

El. 836.49 "S"
El. 836.33 "N"

484.9'-8" @ 0.47 %

175'-8" @ 0.26 %

835.87 "S"
835.86 "E"
847.37 "W"

RECORD DRAWING

ERIC RESKE — REGISTERED — STATE OF INDIANA — 3-30-83 — PROFESSIONAL ENGINEER

REFORMATORY RD. ALLEY #9 . ALLEY #7 MERIDIAN ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 4

HORIZ. 1"=50'
VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

I-1

PHOTOGRAPHIC REPRODUCTION BY ACCU-COPY SERVICE CO., INC., INDIANAPOLIS, INDIANA

PLAN
SURVEYED:
PLOTTED:
ALIGNMENT CHECKED:
NOTE BOOK
GRADES CHECKED:
B. M.'s NOTED:
STRUCTURE LOCATIONS CHKD.
NO.
RT. OF WAY CHECKED.
BY
DATE

PROFILE
SURVEYED:
PLOTTED:
NOTE BOOK
GRADES CHECKED:
B. M.'s NOTED:
NO.
STRUCTURE LOCATIONS CHKD.
BY
DATE

RECORD DRAWING

ALFONTE ST. ALLEY #8

FALL CREEK R.W.D. PLAN & PROFILE
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA
SHEET 5

ERIC RESKE REGISTERED NO. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 3-30-65

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

I-2

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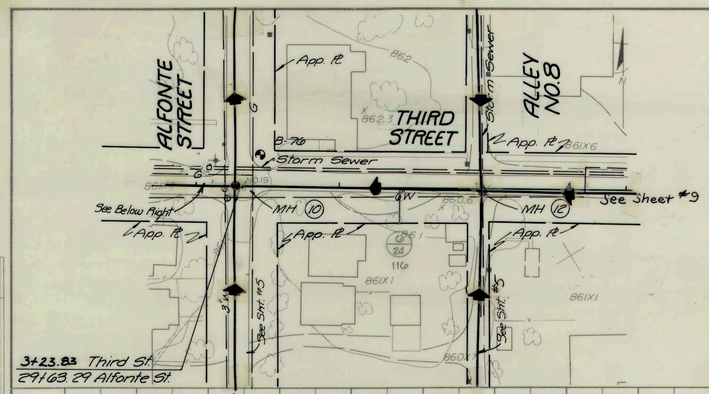
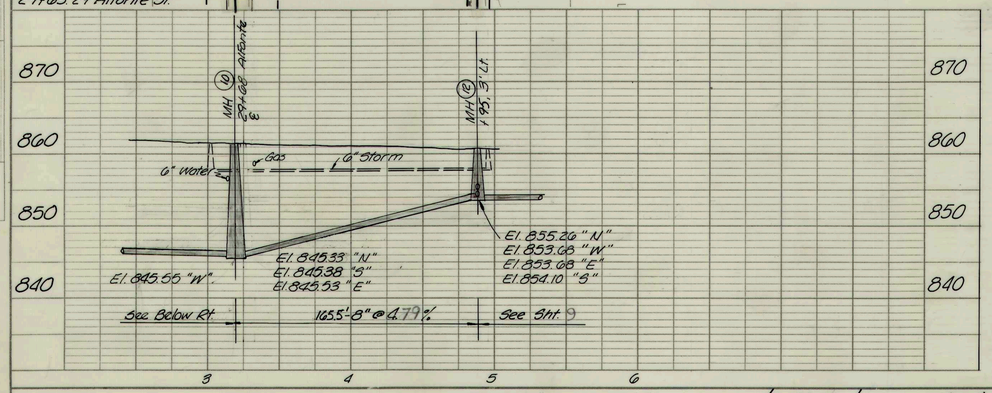
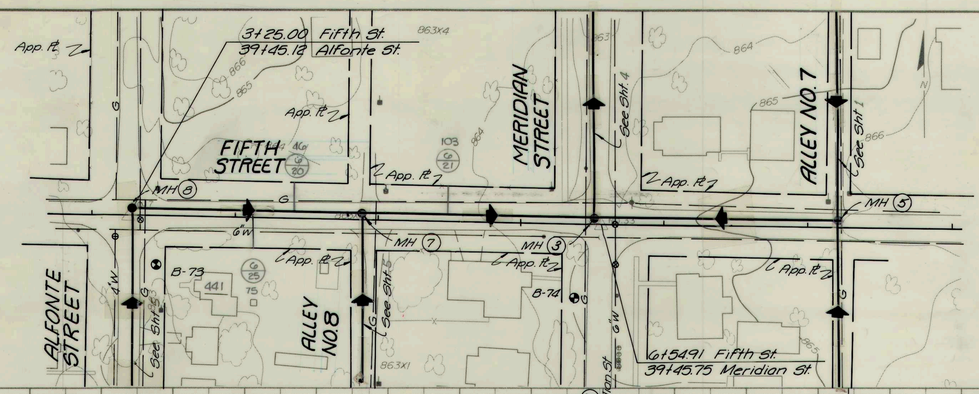
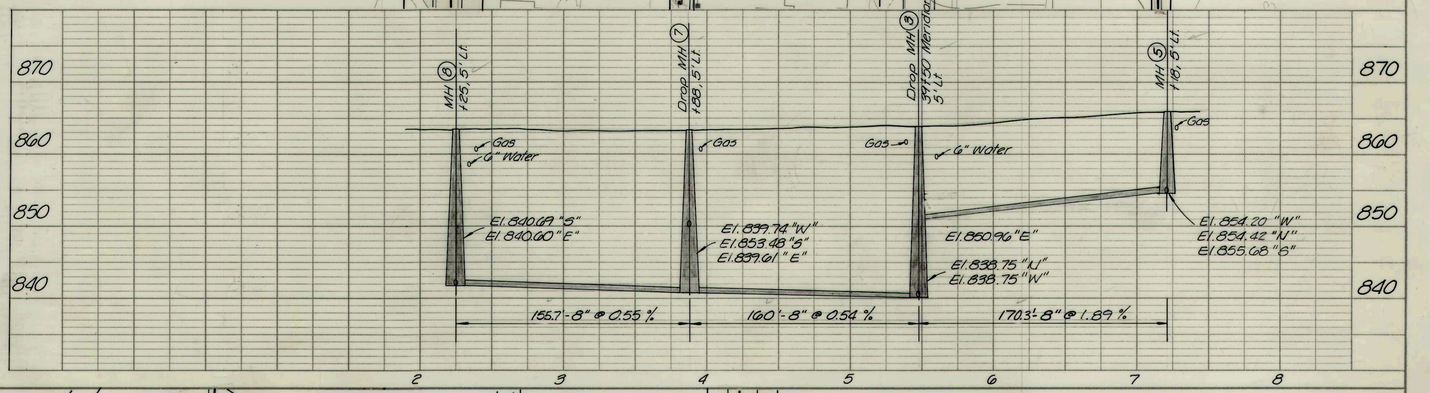
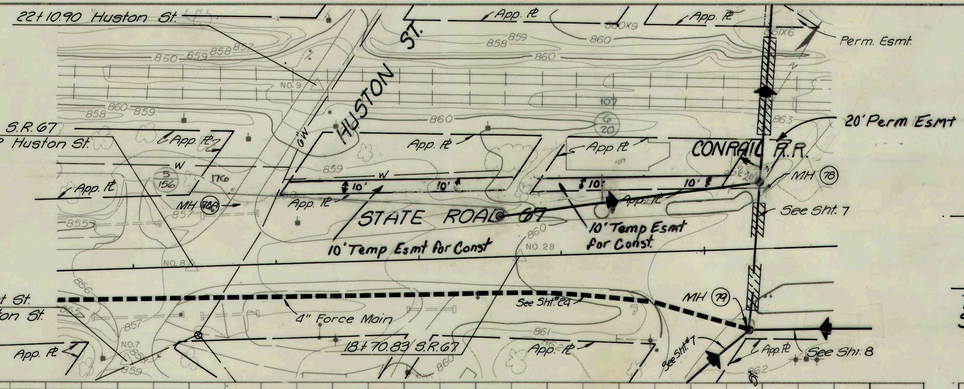
PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., R/W ACQUIRED, R/W CHECKED, R. M.'s NOTED, STRUCTURE NO'S NOTED, DATE, BY

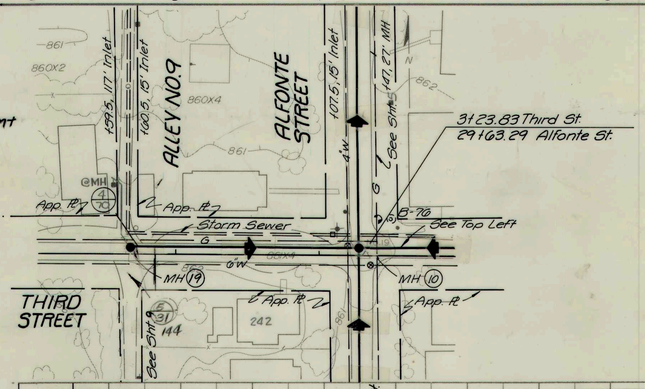


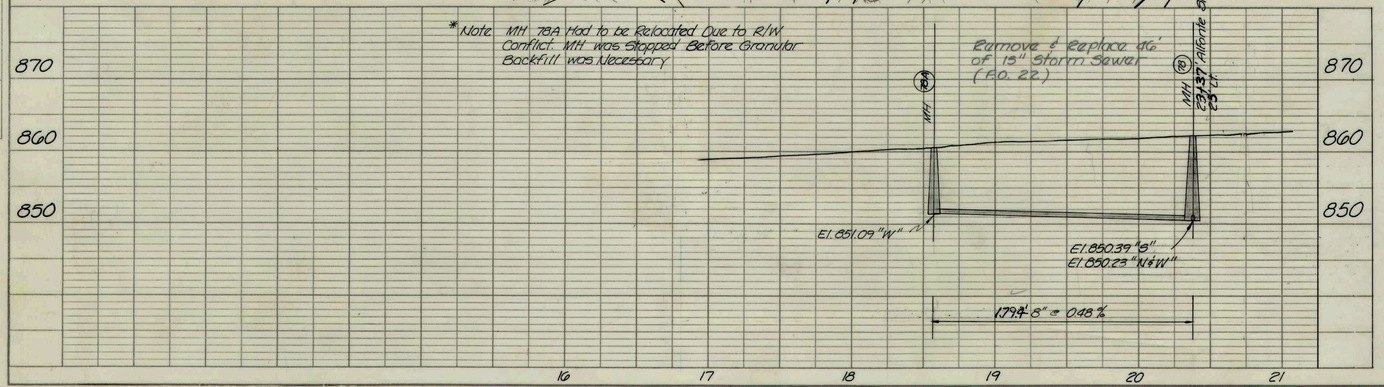


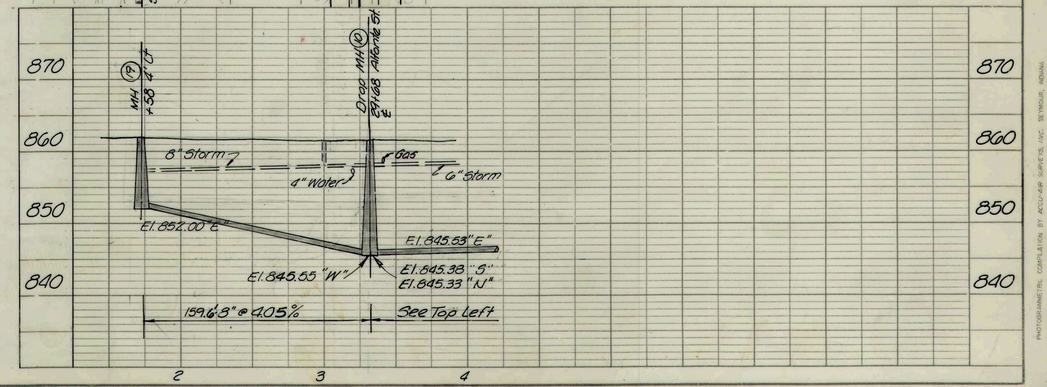












RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

THIRD ST. FIFTH ST. & S.R. 67

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 6

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

I-24

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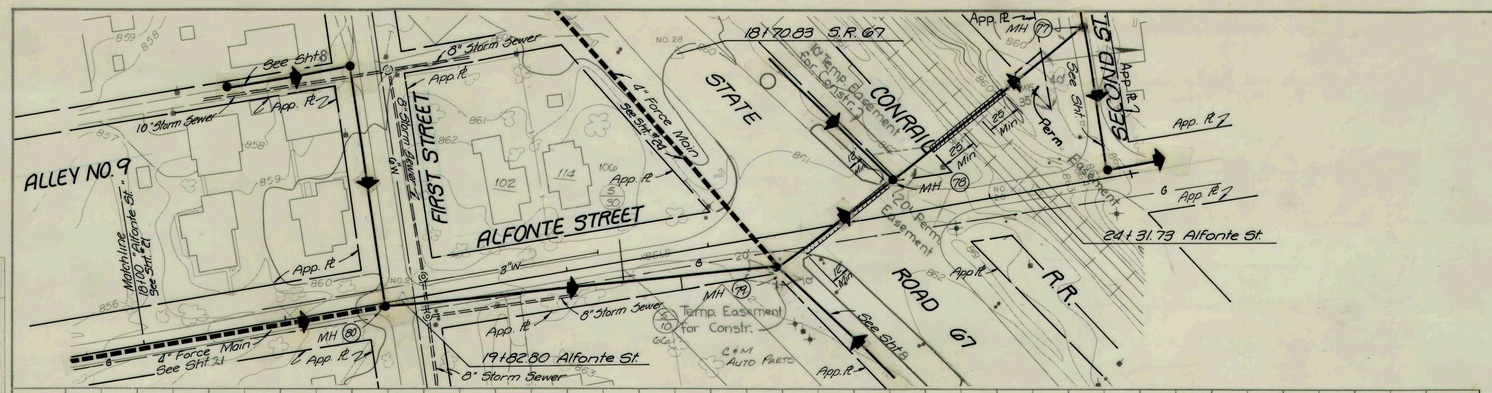

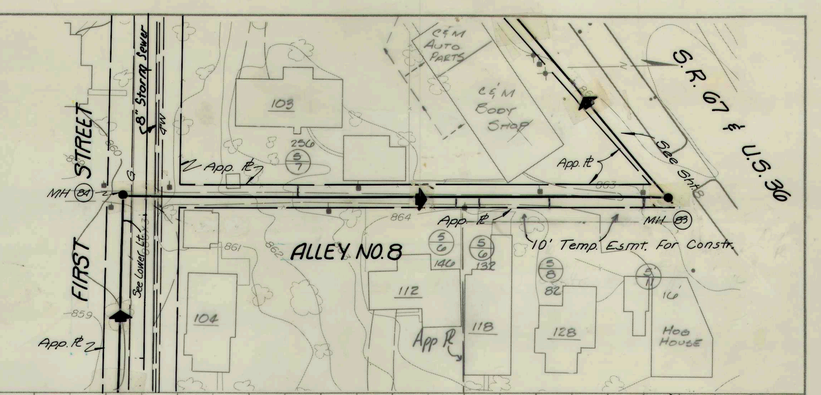

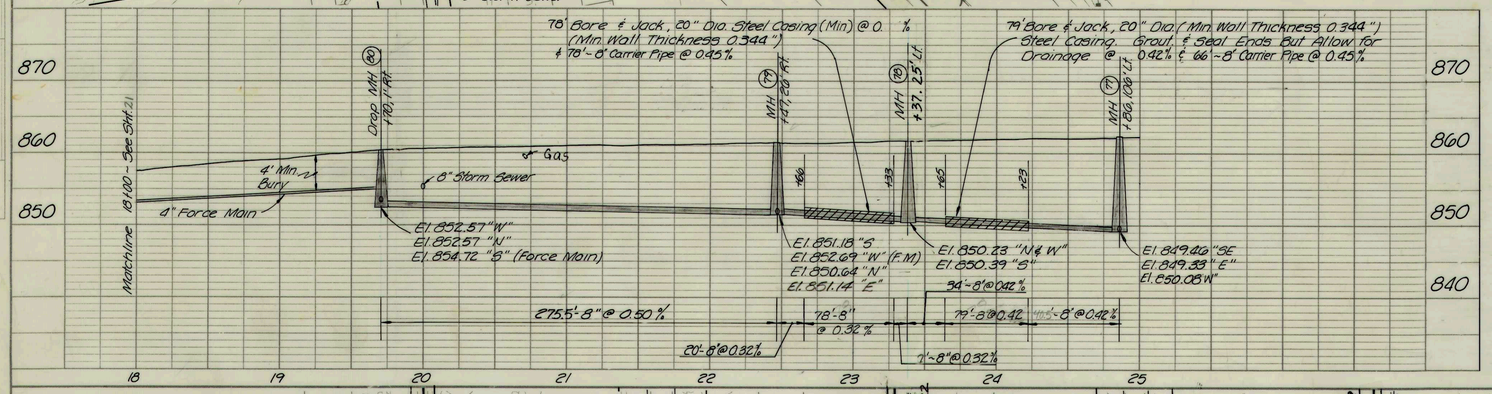

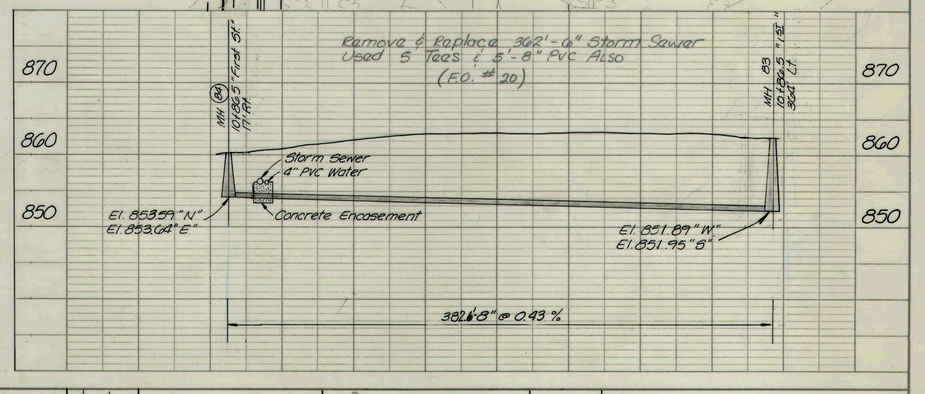

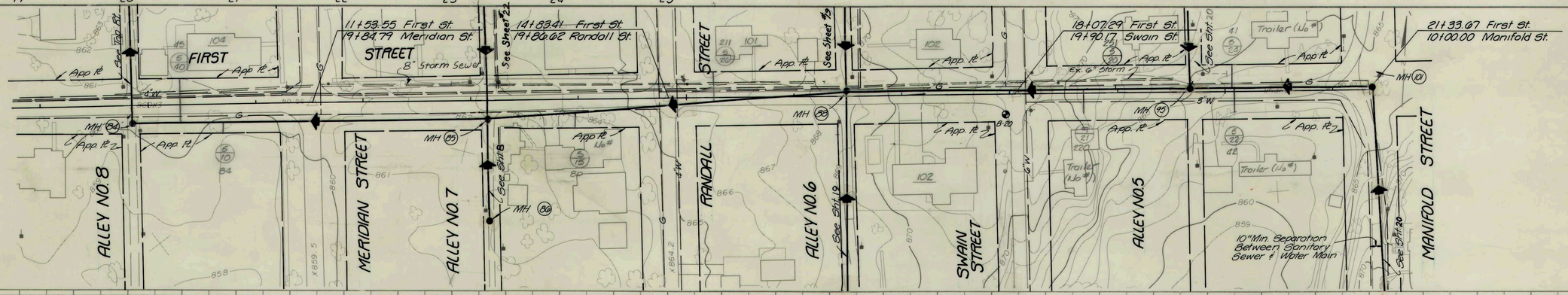

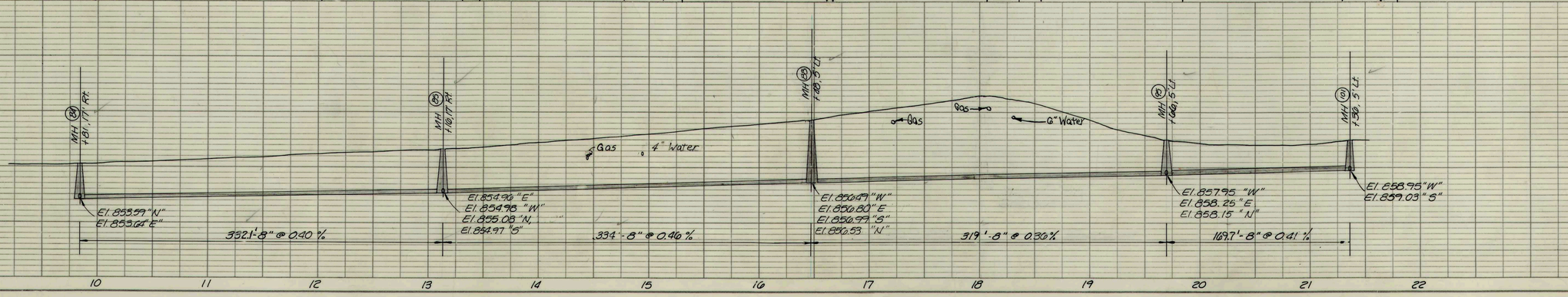

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I-3

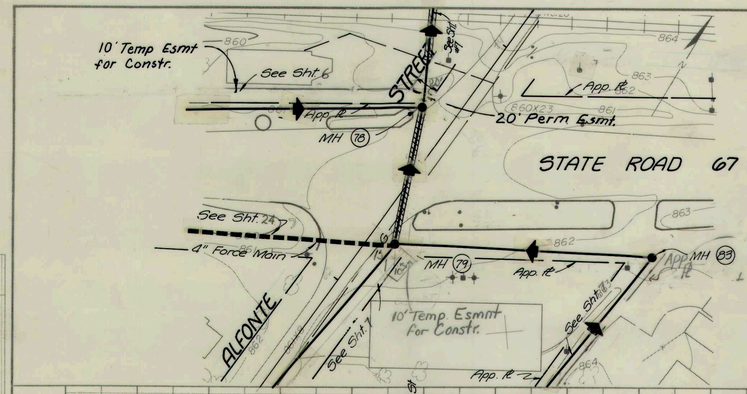
RECORD DRAWING

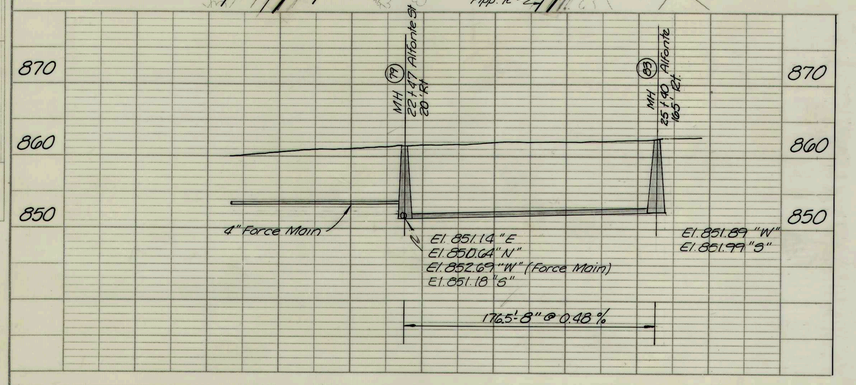
ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

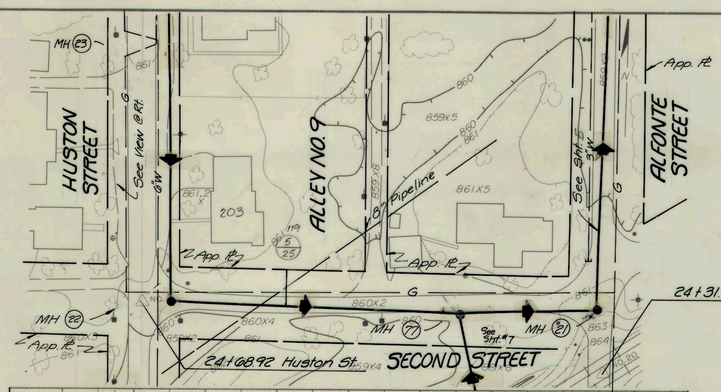
ALFONTE ST., ALLEY #8 FIRST ST.		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	7
VERT. 1"=10'		

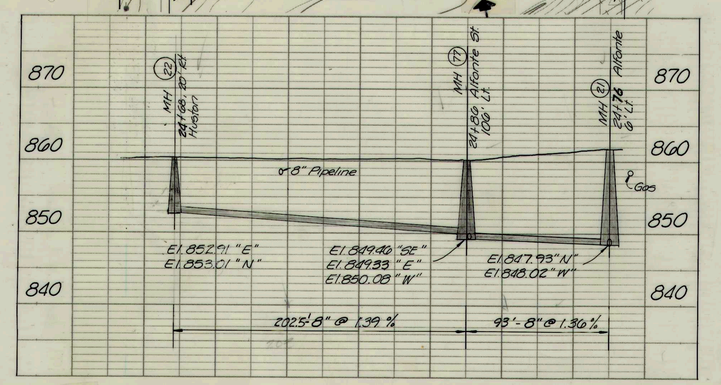
PHOTOGRAMMETRIC COMPILATION BY AERO-MAP SURVEYS, INC. SEYMOUR, INDIANA

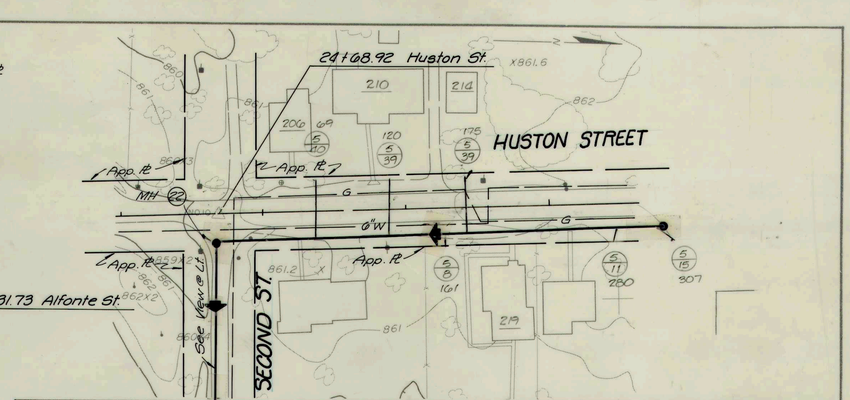
PLAN — SURVEYED, PLOTTED, GRADES CHECKED, R/W & EASEMENTS, STRUCTURE NOTATIONS CHKD, RT. OF WAY CHECKED. NOTE BOOK, NO. — DATE, BY

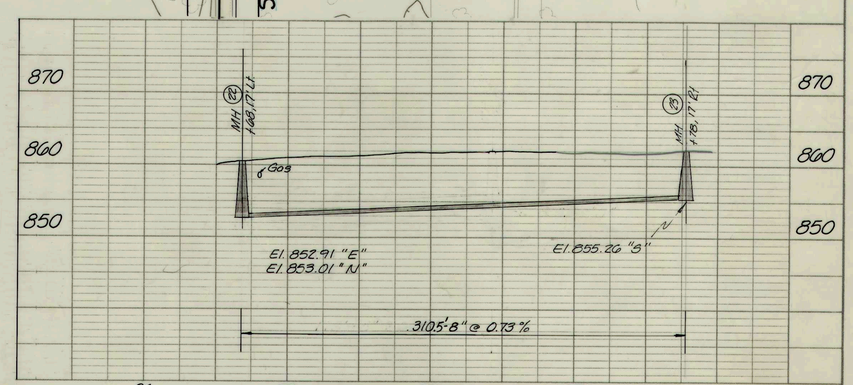


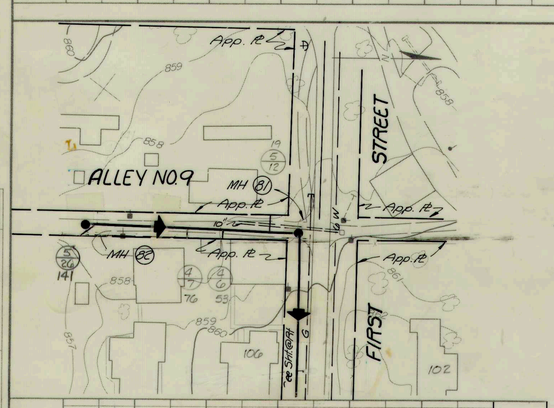


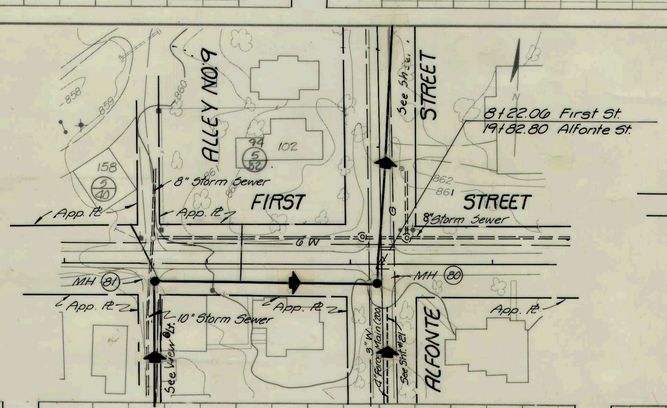


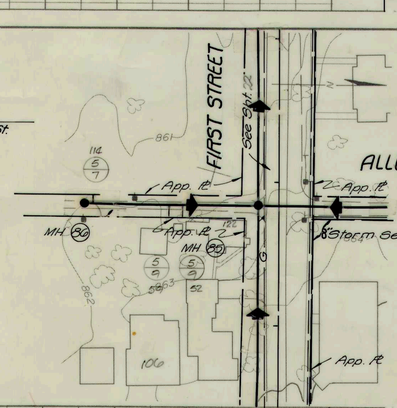


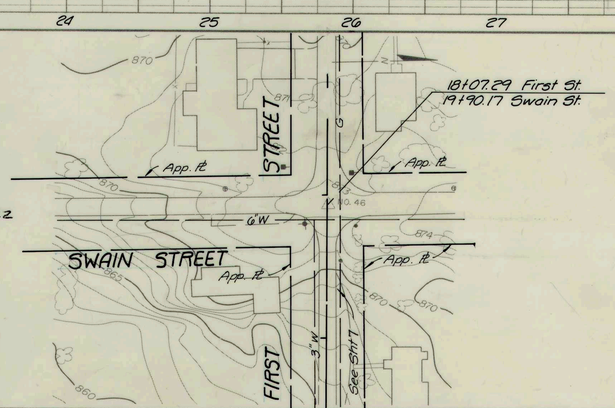




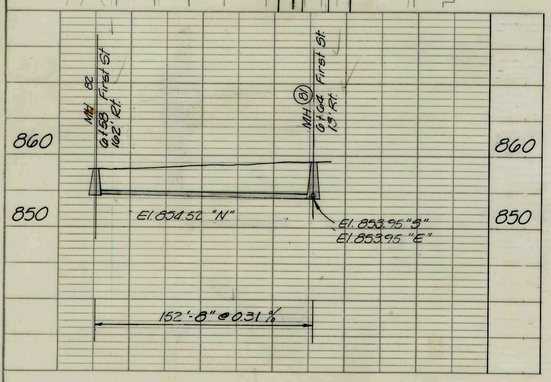


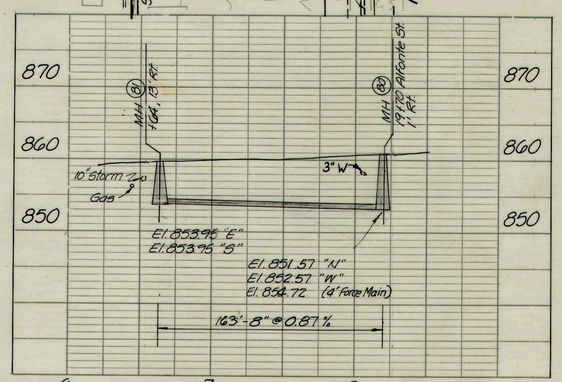


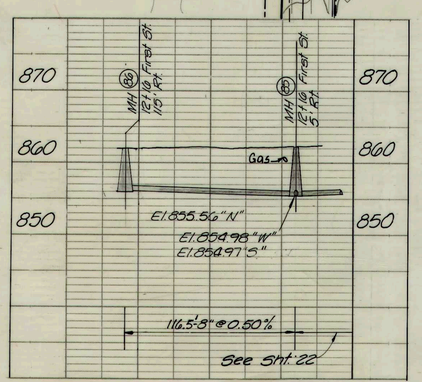


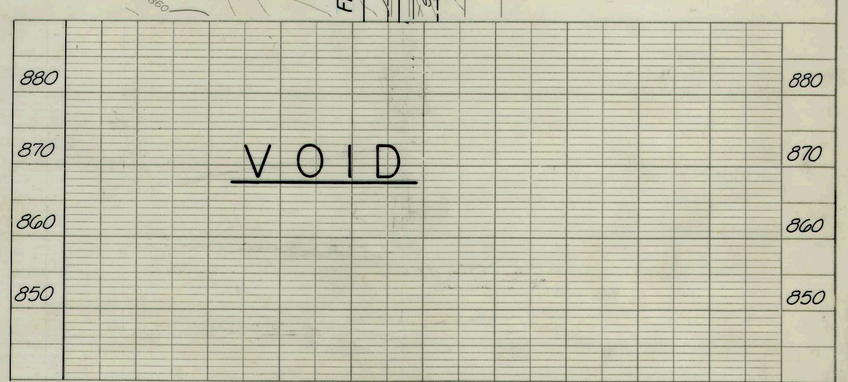


PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R/W & EASEMENTS, STRUCTURE NOTATIONS CHKD. NOTE BOOK, NO. — DATE, BY









6 7 8

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS INC. SEYMOUR, INDIANA

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

ALLEYS #7 & #9, HUSTON ST., FIRST ST., SECOND ST., S.R. 67

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 8

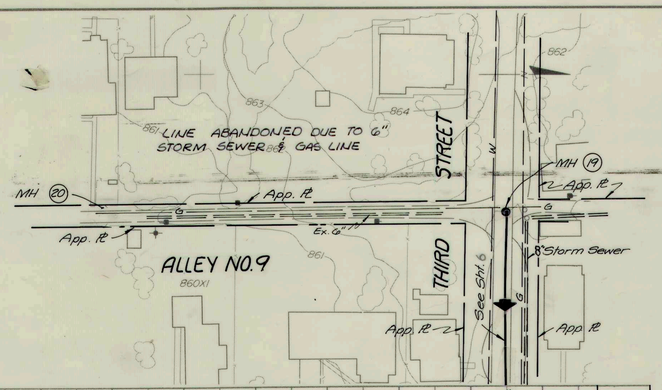
HORIZ. 1"=50' — VERT. 1"=10'

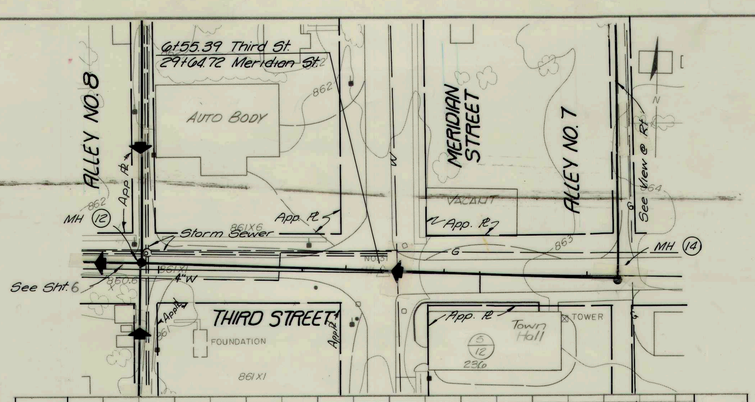
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

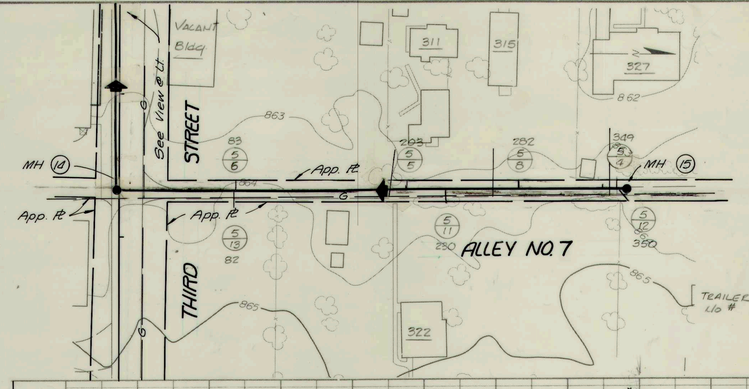
I-4

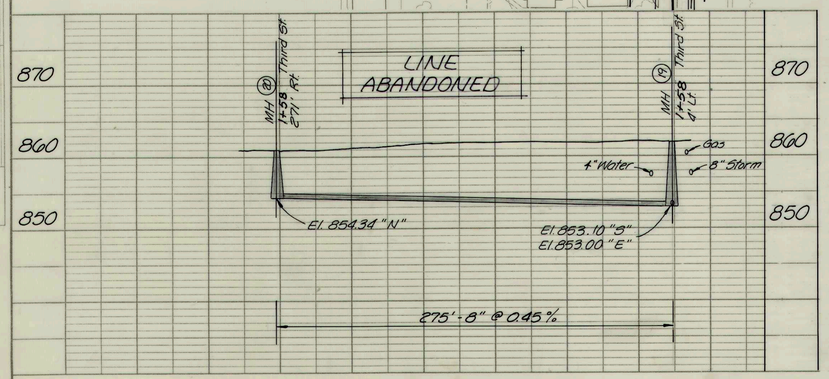
PLAN — SURVEYED: PLOTTED: GRADES CHECKED: R/W NOTED: STRUCTURE NOTATIONS CHKD. — NOTE BOOK — NO. — BY — DATE

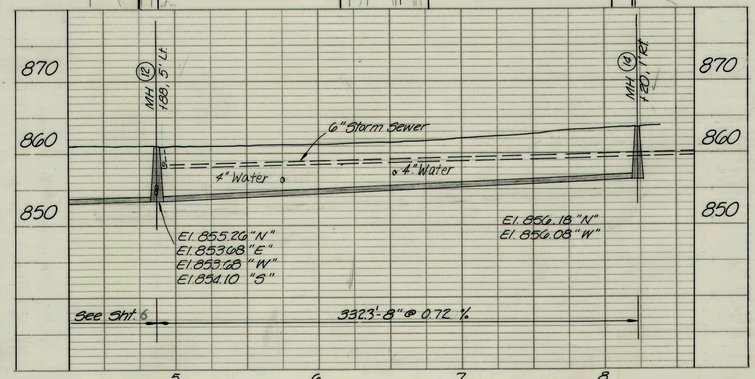
PROFILE — SURVEYED: PLOTTED: GRADES CHECKED: R/W NOTED: STRUCTURE NOTATIONS CHKD. — NOTE BOOK — NO. — BY — DATE

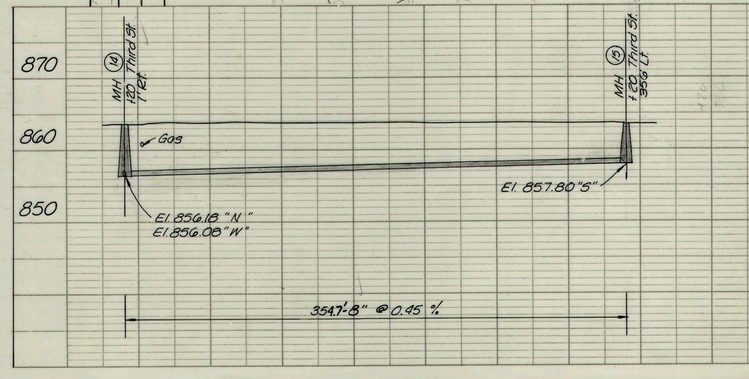


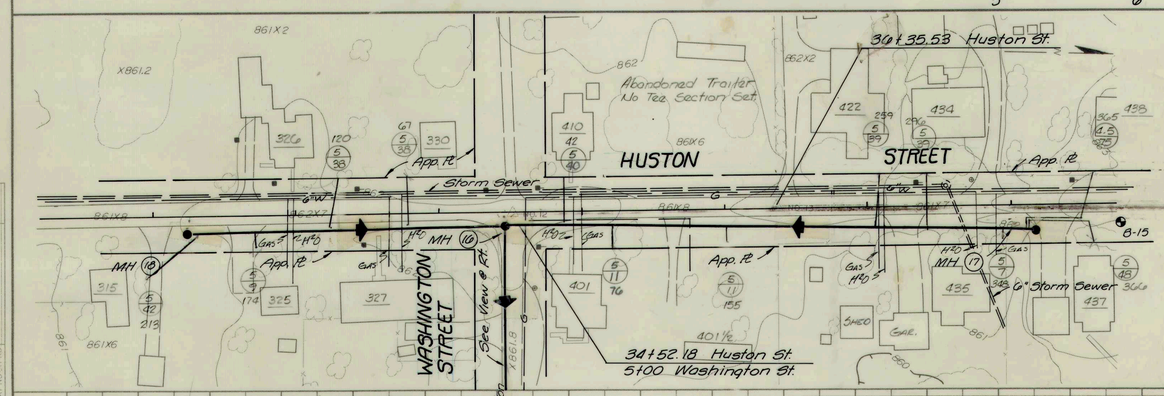


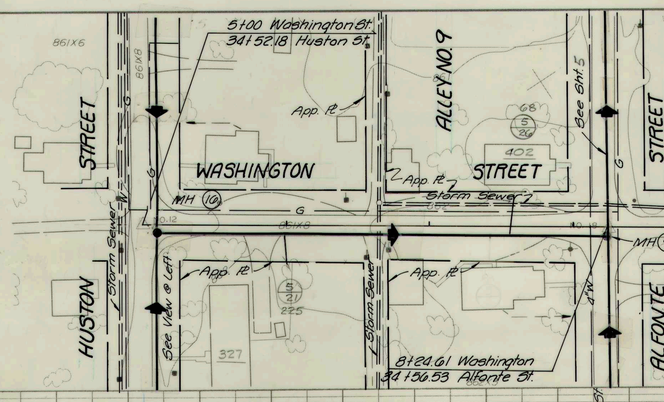












ALLEYS #7 & #9 WASHINGTON ST. HUSTON ST. THIRD ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 9

HORIZ. 1"=50' — VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

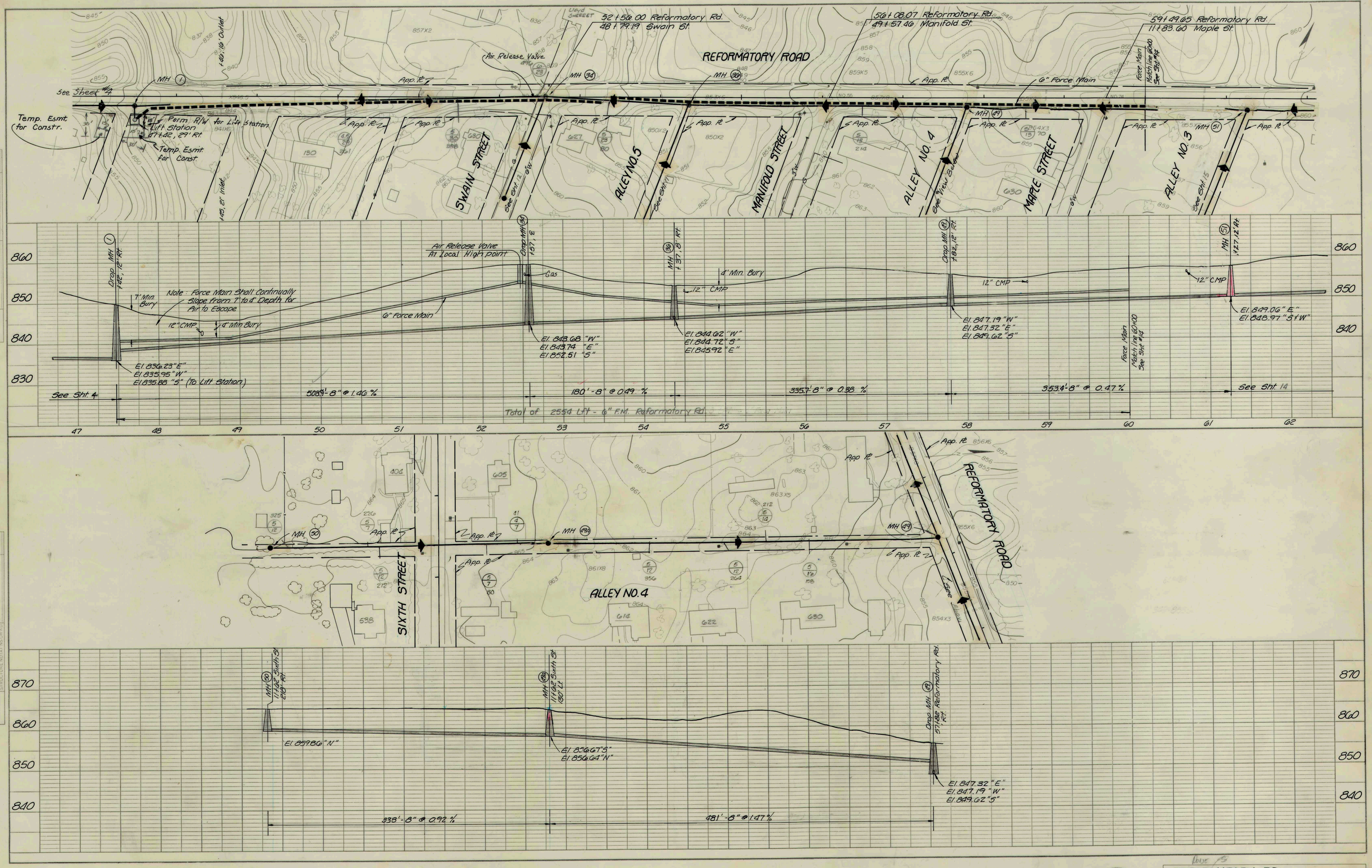
RECORD DRAWING

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

I-4

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. — ALIGNMENT CHECKED / RT. OF WAY CHECKED / DATE / BY

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — GRADES CHECKED / R.W.L NOTED / DETAILS (NOTATIONS CHKD) / DATE / BY



RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

Have #5

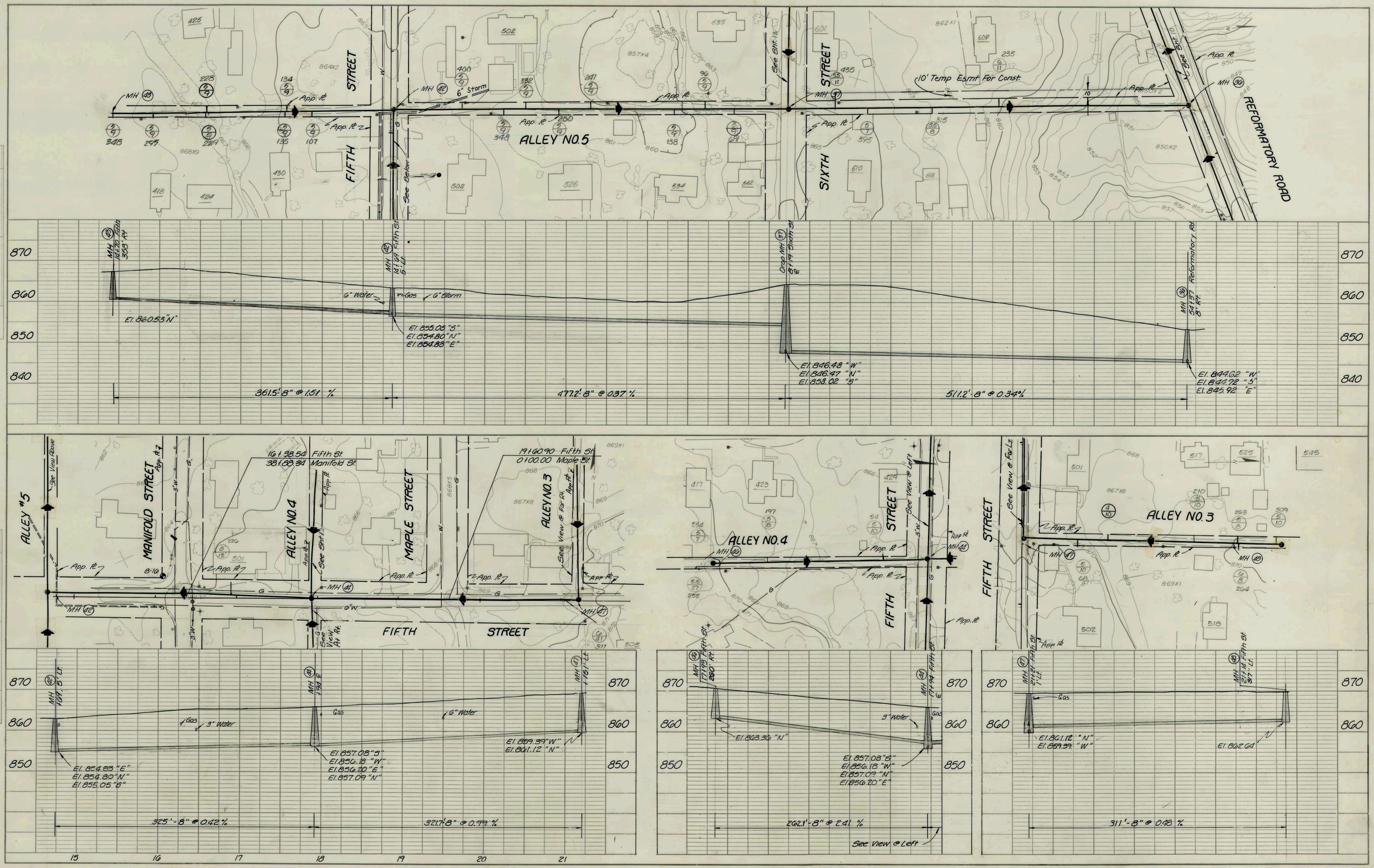
REFORMATORY RD. ALLEY #4		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	10
VERT. 1"=10'		

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. INDIANA

I-5

PLAN — SURVEYED: BY, DATE; PLOTTED; GRADES CHECKED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; NOTE BOOK; NO.; B. M. NOTED; ELEVATIONS NOTATED/CHECKED

PROFILE — SURVEYED: BY, DATE; PLOTTED; GRADES CHECKED; B. M. NOTED; ELEVATIONS NOTATED/CHECKED; NOTE BOOK; NO.



RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

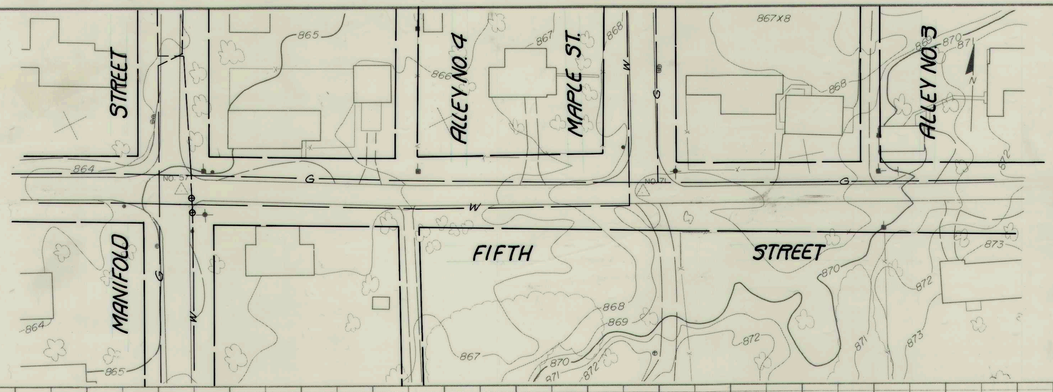
ALLEYS #3, #4, & #5
FIFTH ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 11

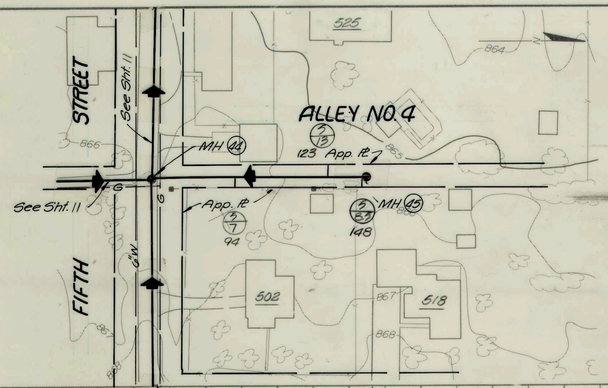
HORIZ. 1"=50'
VERT. 1"=10'

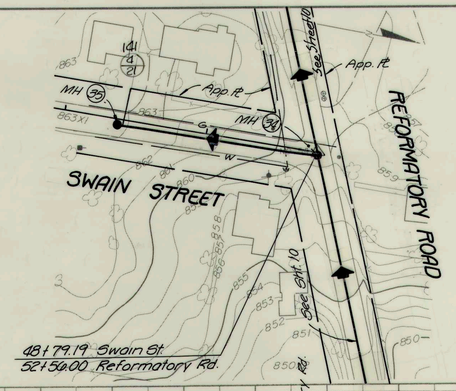
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

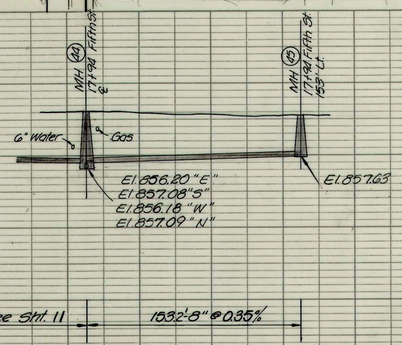
PHOTOGRAMMETRIC COMPILATION BY ACCU-ASP SURVEYS, INC. SEYMOUR, INDIANA

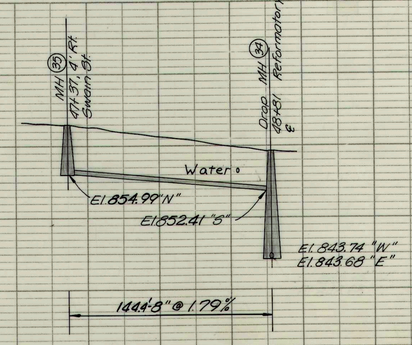


VOID









870
860
850
840

47 48 49

PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
NO. RT. OF WAY CHECKED

PROFILE
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. STRUCTURES CHECKED

DATE BY

I-64

RECORD DRAWING

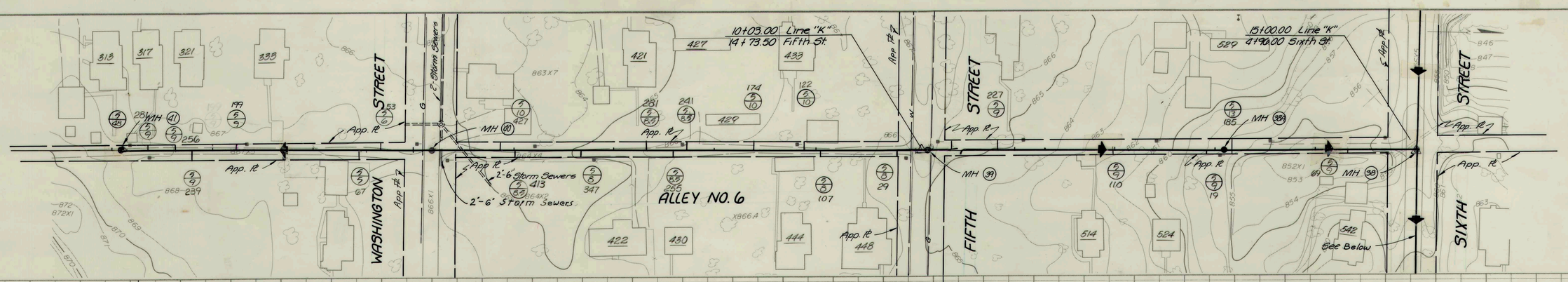
ERIC RESKE REGISTERED No. 13442 3-12-53 STATE OF INDIANA PROFESSIONAL ENGINEER

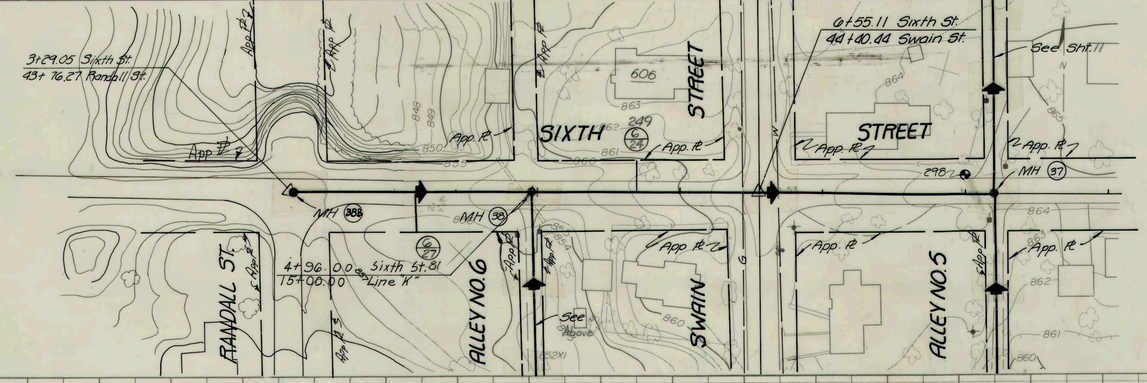
FIFTH ST. ALLEY #4 SWAIN ST.	
FALL CREEK R.W.D. PLAN & PROFILE	SHEET 12
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC.
VERT. 1"=10'	CONSULTING ENGINEERS
	INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED, PLOTTED, CONTOURS CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, CONTOURS CHECKED, ALIGNMENT CHECKED, STRUCTURE NOTATIONS CHECKED, NOTE BOOK, NO., BY, DATE





RECORD DRAWING

ERIC RESKE REGISTERED LS No. 13442 3-30-83 STATE OF INDIANA PROFESSIONAL ENGINEER

ALLEY #6, SIXTH ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 13

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

I-7

PLAN — SURVEYED: PLOTTED: ALIGNMENT CHECKED: GRADES CHECKED: R/W OR WAY CHECKED: NOTE BOOK: NO.

PROFILE — SURVEYED: PLOTTED: GRADES CHECKED: R/W OR WAY CHECKED: NOTE BOOK: NO.

63+07.15 Reformatory Rd.
MH (51)
Air Release Valve
64+72.00 Reformatory Rd.
13+91.00 Line "G"
6" Force Main
66+59.01 Reformatory Rd.
App. ℄
Match line 60+00 See Sht. #10 Force Main
ALLEY NO. 3
See Sht. #5
MH (52)
WILLOW STREET
REFORMATORY ROAD
10' Temp Esmt.
ALLEY NO. 2
See Sht. #4
JONES STREET
209
133
Match line 67+50 See Sht. #5 Force Main
MH (60)
ALLEY NO. 1
See Sht. #3
863X1

870 / 860 / 850

See Sht. #10 Force Main
Match line 60+00
MH (51) 127 12" RT.
4' Min Bury
6" Force Main
Air Release Valve 146.8 RT.
Drop MH (53) 116. 12" RT.
MH (60) 118. 12" RT.
El. 848.97 "W"
El. 849.06 "E"
El. 848.97 "S"
El. 850.68 "W"
El. 850.44 "E"
El. 850.71 "S"
El. 858.34 "S"
El. 857.88 "W"
El. 858.06 "E"
Force Main Match line 67+50 See Sht. #5
See Sht. 10
348.5'-8" @ 0.46%
338.2'-8" @ 0.43%
See Sht. 15
2554 LFT ~ 6" Force Main (200 psi.) - Total - Reformatory Rd.

60 61 62 63 64 65 66 67 68 69

ALLEY NO. 1
See Above
373
306
App. ℄ 7
200
MH (61)
App. ℄
332
251
185
736
742
724
730
EAST STREET
6" Force Main
862X3
863
864
865
866
REFORMATORY ROAD
15+60.89 East St.
70+01.99 Reformatory Rd
See Sht. #5
MH (62)
See Sht. #25
868X2
870X1
865X8
865X3
New 4" PVC Water Main Extension
Remove Existing Plug and Install 4" Gate Valve
MH (61) 0+00 12" RT. Reformatory Rd.
MH (62) 3+86 12" RT. Reformatory Rd.
El. 861.90 "N"
El. 858.06 "E"
El. 857.88 "W"
El. 858.34 "S"
386'-8" @ 0.92%

PROFILE FOR ALLEY NO. 1

870 / 860 / 850

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

REFORMATORY RD.
ALLEY # 1
FALL CREEK R.W.D. PLAN & PROFILE
SHEET 14
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

I-2

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED: PLOTTED: GRADES CHECKED: ALL DATA CHECKED: NOTE BOOK: NO.

ALLEY NO.3 — SIXTH STREET — See Sht #16 — App. ℓ Z — MH (36) — MH (37) — 614 — 106 (4/8) — 172 (4/9) — 80 (A/5) — 607 — 501

146 (5/10) — ALLEY NO. 3 — 6" Force Main — REFORMATORY ROAD — MH (52) — MH (51) — See Sht #16 — App. ℓ

Force Main Match line 67+50 See Sht #14 — 862X3 — 863 (5/14) — REFORMATORY ROAD — 6" Force Main — MH (50) — See Sheet #14 — 86 (21/16) — 742 — ALLEY NO.1 — See Sht #14 — EAST STREET — New 4" Water Main Extension — Ex. Flushing Hydrant — Ex. Water Main — New 6"W — New 4" Gate Valve

70+101.99 Reformatory Rd. — 15+60.89 East St. — Force Main Match line 70+00 See Sht #25 — N 867.4X — 863X1

See Lt. — EAST STREET — MH (48) — 6" Force Main — 4"W — New Gate Valve — 865.5XB — 15+60.89 East St. — 70+101.99 Reformatory Rd. — New 4" PVC Water Main Extension — REFORMATORY RD. — 6"W

App. ℓ Z — App. ℓ — See Sht #16 — 868X5

870 / 860 — MH (36) 1417 Sixth St. 7+LL — MH (37) 41+71 Sixth St. 482.1 LT — El. 861.47 "E" El. 861.61 "W & N" — El. 862.57 "S" — 181'-8" @ 0.53%

870 / 860 / 850 / 840 — MH (38) 59+77.1 LT Reformatory Rd. — MH (51) 61+27 12.4 LT Reformatory Rd. — El. 851.89 "N" — El. 848.97 "W" El. 848.97 "S" El. 849.06 "E" — 149'-8" @ 1.95%

870 / 860 / 850 — MH (68) 411.12 RT — MH (69) 489.15 RT Reformatory Rd. — 6" Water 2' Min. Seperation — 6" Force Main — El. 858.06 "E" El. 857.88 "W" El. 858.34 "S" — El. 858.94 "W" — Force Main Match line 67+50 See Sht #14 — Force Main Match line 70+00 See Sht #25 — See Sht. 14 — 1764'-8" @ 0.49% — 250 LFT ~ 6" Force Main (200 psi)

68 — 69 — 70

870 / 860 / 850 — VOID

13 — 14 — 15

PROFILE — SURVEYED: PLOTTED: GRADES CHECKED: ALL DATA CHECKED: NOTE BOOK: NO.

617 — 621 — 635 — 865X4 — STREET — 122 — 216 — 296 — ALLEY NO. 1 — 390 — 202 — 269 — 349 — 389 — 60 — 863X5 — 624 — G30 — G36 — G42 — EAST STREET — SIXTH — SEVENTH — See Sht #16 — App. ℓ Z — MH (24) — MH (25) — MH (26) — 22182.50 Sixth St. 7+49.16 East St. — 12+41.05 East St. 9781.09 Seventh St.

870 / 860 / 850 — MH (24) 21.16 Sixth St. — MH (25) 21+16 Sixth St. 40.5 RT — -0.05 — El. 861.01 "S" — El. 856.00 "W" El. 856.00 "E" El. 856.15 "N" — 400.5'-8" @ 12%

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE INDIANA PROFESSIONAL ENGINEER 3-30-83

ALLEY #3 REFORMATORY RD. EAST ST. ALLEY #1

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 15

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-MAP SURVEYS, INC. BELMONT, INDIANA

I-24

PLAN — SURVEYED: PLOTTED: GRADES CHECKED: ALIGNMENT CHECKED: ELEVATIONS CHECKED: NOTE BOOK: NO.: BY: DATE:

PROFILE — SURVEYED: PLOTTED: GRADES CHECKED: ALIGNMENT CHECKED: ELEVATIONS CHECKED: NOTE BOOK: NO.: BY: DATE: STRUCTURE NOTATIONS CHKD.

5100.00 Line "G"
17196 Sixth St.

STREET — 527 — 545 — 551 — 667X3 — 871 — 870 — 346 — MH (54) — 327 — 209 — 103 — App. ft. — 6A — 65 — 143 — 868 — 869.5 — 866X3 — BODY SHOP — SIXTH

6"W — See Below

615 — 618 — 629 — 635 — 645 — 863 — 864 — 865 — 869 — ALLEY NO. 2 — 238 — 314 — 414 — 207 — 54 — 10' TEMP ESMT. FOR CONSTR. — App. ft.

621 — 415 — 318 — 256 — 247 — 201 — 624 — 148 — 82 — 610 — 614 — 616 — 620 — 638 — 868 — 869

MH (55) — MH (56) — MH (57) — SEVENTH STREET — 384 — 865 — 862 — 863 — 175 — 134 — 283 — 81 — 718 — 726 — 868 — 865

13149.00 Line "G"
Grid 72.00 Reformatory Rd.

REFORMATORY ROAD — 11°44'G — See Below

MH (58) 0139.3 Lt.

Drop MH (57) 109.5 Lt.

MH (56) 488.6 Lt.

Drop MH (55) Grid 72.12 Rt. Reformatory Rd.

6" Water — Gas

El. 862.78

El. 854.89 "S"

El. 854.72 "N"
El. 854.82 "E"
El. 854.87 "W"

El. 852.78 "S"
El. 852.63 "N"

El. 850.68 "W"
El. 850.71 "S"
El. 856.44 "E"

434.5' - 8" @ 1.88%

478.5' - 8" @ 0.41%

389' - 8" @ 0.49%

870 / 860 / 850

1 2 3 4 5 6 7 8 9 10 11 12 13 14

10+32.13 Sixth St.

17+96.00 Sixth St.
5100.00 Line "G"

See Sht. 15 — STREET — 4"W — 6"W — 607 — 95 — 615 — SIXTH — See Above — 621 — STREET — 10' Temp. Esmt. For Constr. — JONES STREET — ALLEY NO. 1 — See Sht. 15 — 4"W — App. ft. — MH (52) — MH (53) — MH (54) — MH (55) — MH (56) — G — 6"W — 868 — 869 — 867 — 866 — 865 — 864 — 863X5 — 865X7

ALLEY NO. 3 — 264 — WILLOW — 551 — ALLEY NO. 2 — 620 — 288 — 542 EAST — 27 — EAST STREET — See Sht. 17 — 19+59.62 Sixth St. — 22+82.50 Sixth St. — 865X4 — 864X4 — 869.3

SIXTH STREET — 865X3 — 864.4 — ALLEY NO. 1 — SEVENTH STREET

MH (52) 424.7' Lt. — MH (53) 478.7' Lt. — Drop MH (54) 498.5' Lt. — MH (55) 416.8' — Drop MH (56) 747.9' Lt.

4" Water — Gas

El. 861.90 "E"
El. 861.61 "W"
El. 861.47 "E"
El. 861.57 "N"

El. 854.89 "W"

El. 854.89 "S"
El. 854.82 "E"
El. 854.72 "N"

El. 856.00 "W"
El. 856.00 "E"
El. 856.13 "N"

El. 856.80 "W"
El. 857.01 "S"
El. 860.11 "N"

70' - 8" @ 0.42%

319' - 8" @ 2.06%

325' - 8" @ 0.37%

179' - 8" @ 0.46%

870 / 860 / 850

14 15 16 17 18 19 20 21 22 23

VOID

REVISED 3-19-84
CHANGED APP.

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — 3-30-83 — STATE OF INDIANA — PROFESSIONAL ENGINEER

ALLEY 3 #2 SIXTH ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 16

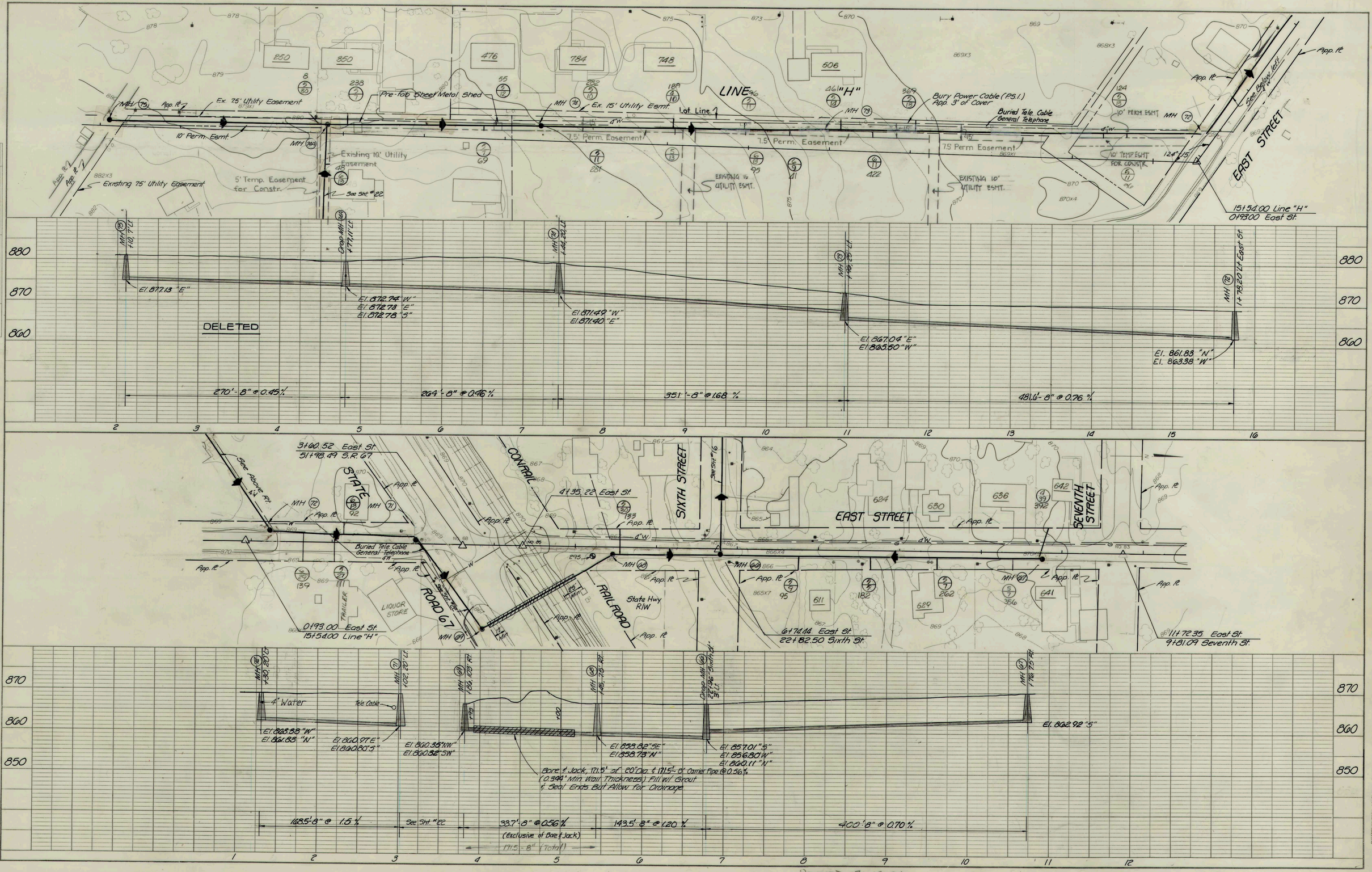
HORIZ. 1"=50' — VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY AERO-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED, DRAWN, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO., DATE, BY

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, RT. OF WAY STAKED, STRUCTURE NO'S ATTN'S CHKD.



REVISED 3-19-84
MOVED APP FOR STATE HWY R/W

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13142 — STATE OF INDIANA — 3-30-83 — PROFESSIONAL ENGINEER

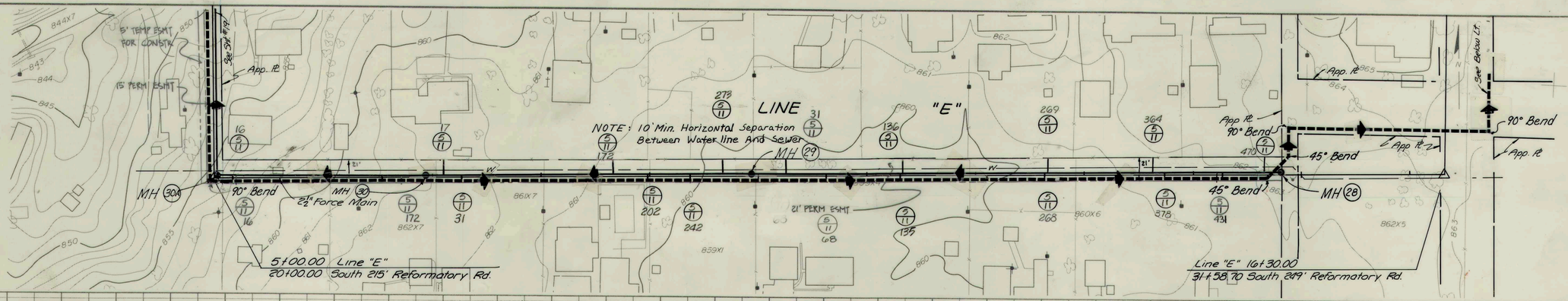
EAST ST. LINE "H"		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC.	17
VERT. 1"=10'	CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	

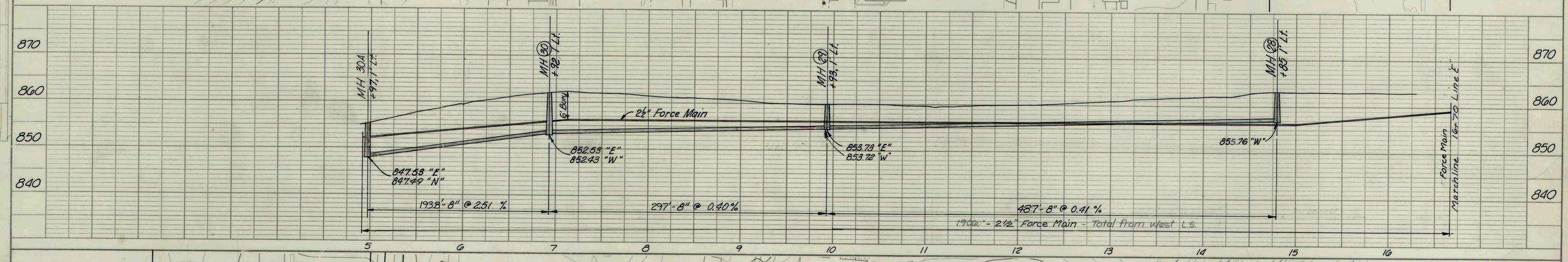
F-10

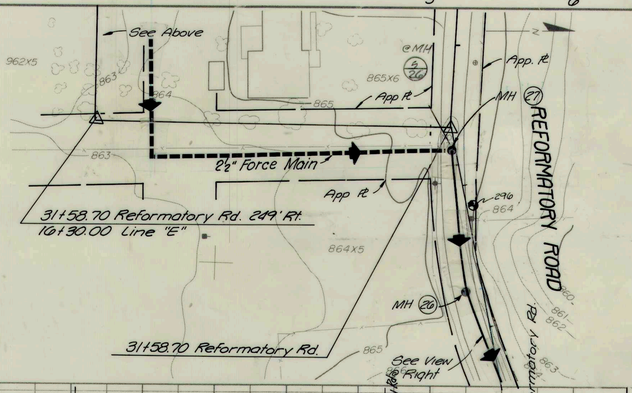
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

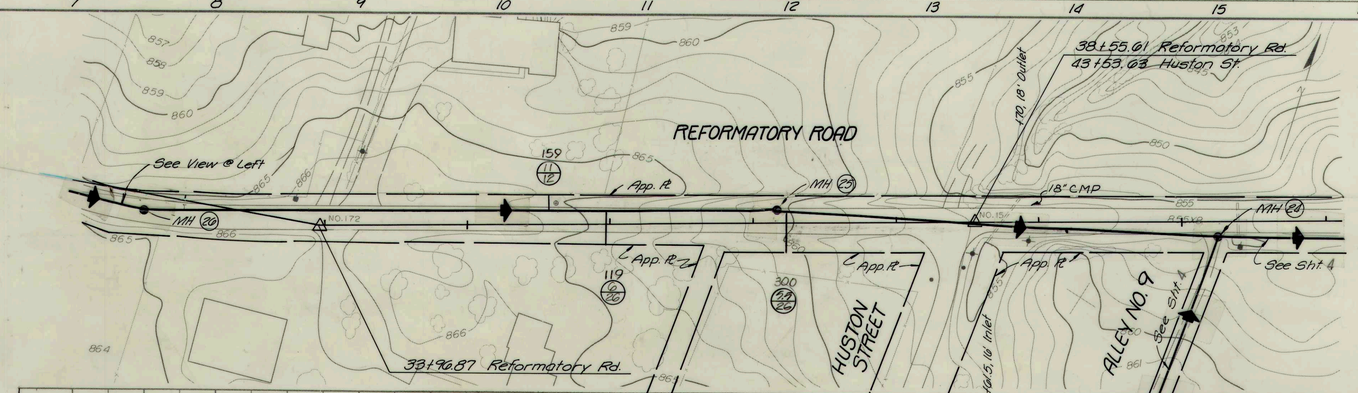
PLAN — SURVEYED, PLOTTED, GRADES CHECKED, R/W & UTILITIES CHECKED, STRUCTURES NOTATNS CHKD, RT. OF WAY CHECKED, NOTE BOOK, NO., BY, DATE

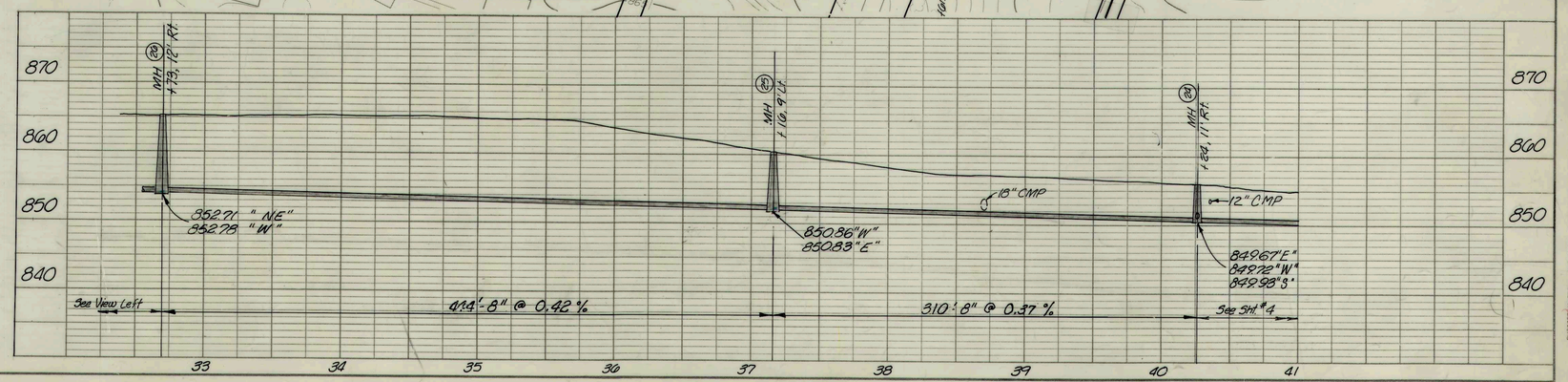
PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R/W & UTILITIES CHECKED, STRUCTURES NOTATNS CHKD, RT. OF WAY CHECKED, NOTE BOOK, NO., BY, DATE











RECORD DRAWING

ERIC RESKE REGISTERED No. 11744 STATE OF INDIANA 3-16-83 PROFESSIONAL ENGINEER

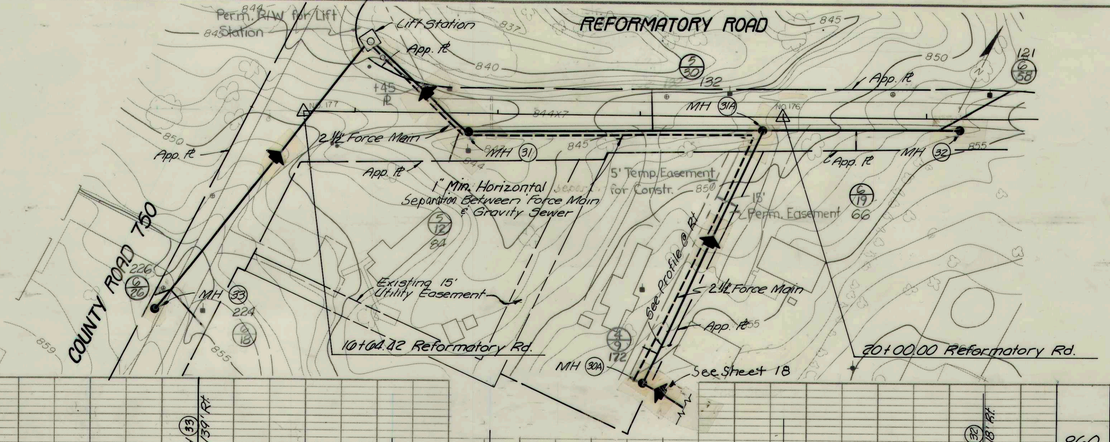
REFORMATORY RD.	LINE "E"
FALL CREEK R.W.D. PLAN & PROFILE	SHEET 18
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC.
VERT. 1"=10'	CONSULTING ENGINEERS
	INDIANAPOLIS, INDIANA

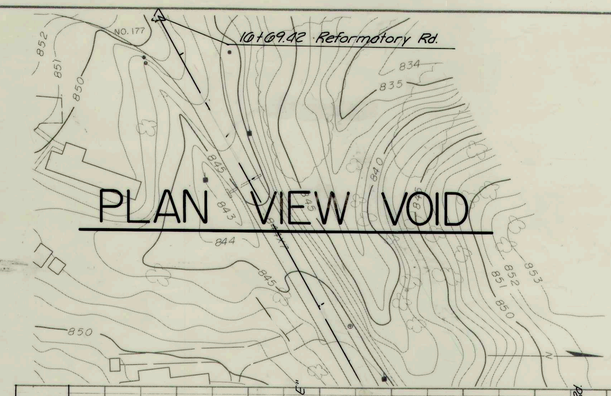
I-11

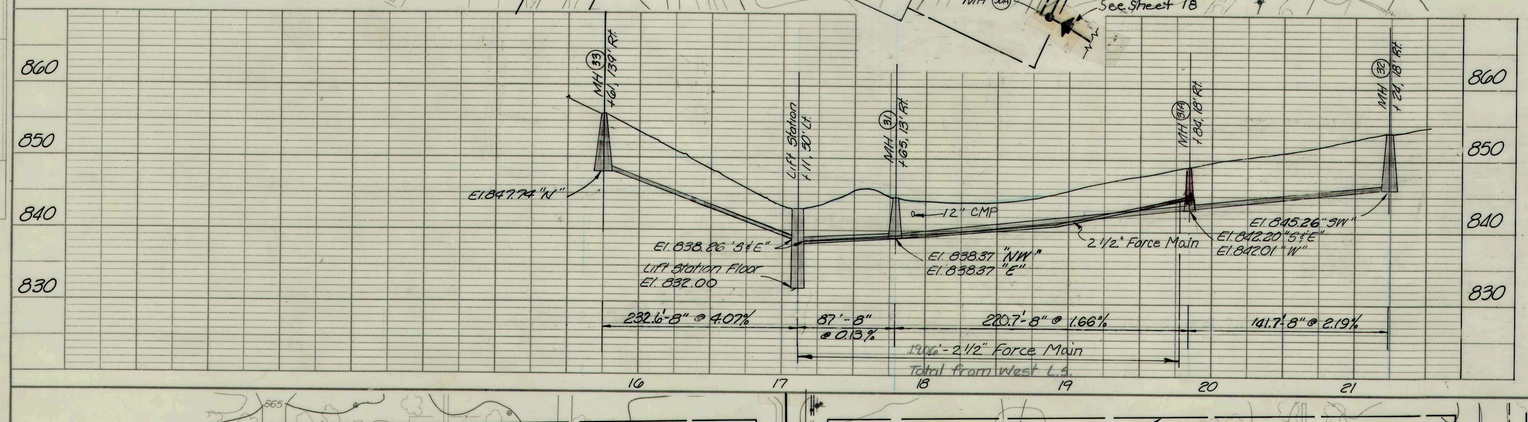
PHOTOGRAMMETRIC COMPILATION BY AERO-MAP SURVEYS, INC. SEYMOUR, INDIANA

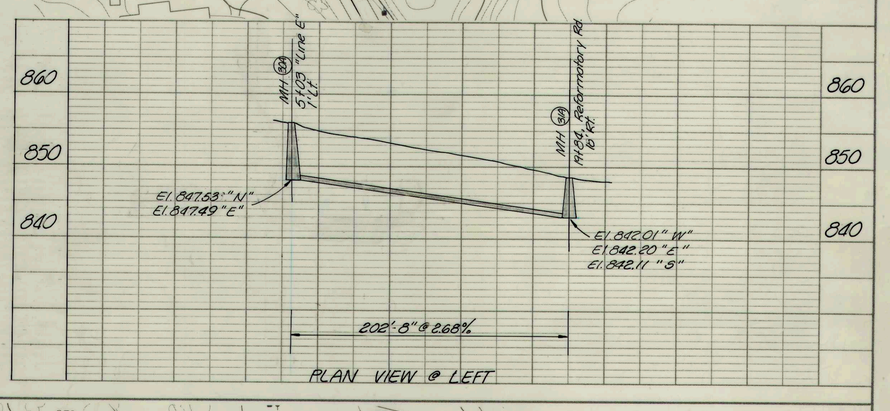
PLAN
SURVEYED:
PLOTTED:
NOTE BOOK
NO.
DATE
BY

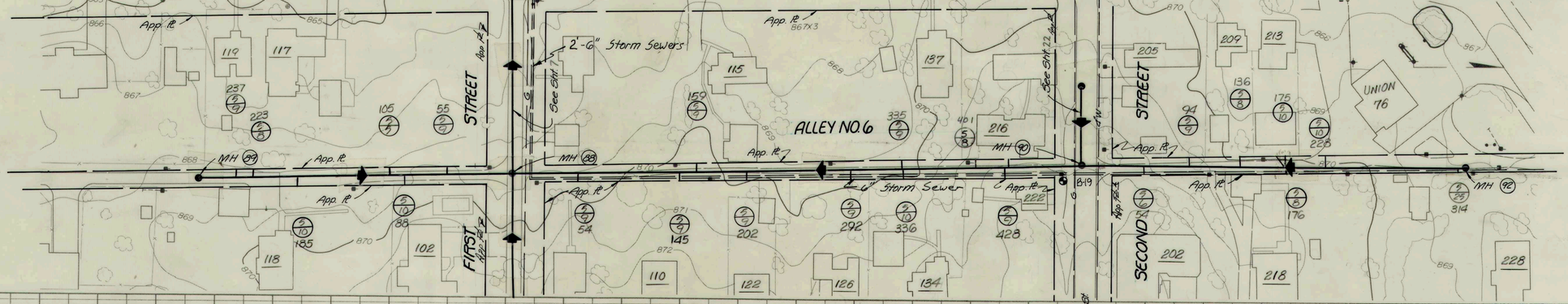
REFORMATORY ROAD

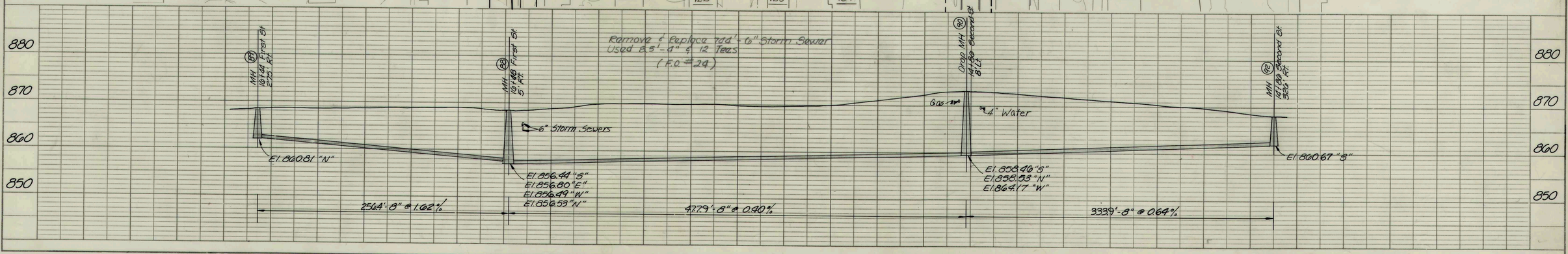












RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 3-20-83

REFORMATORY RD. ALLEY #6

FALL CREEK R.W.D. PLAN & PROFILE | SHEET 19

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

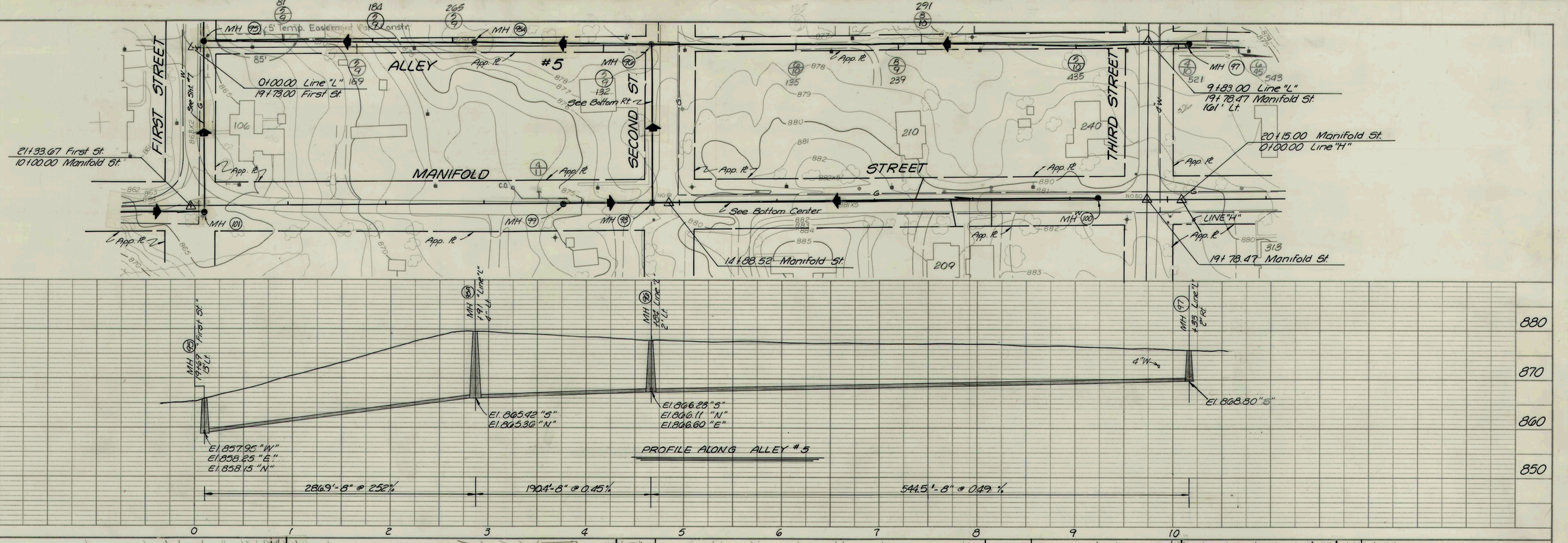
PROFILE
SURVEYED:
PLOTTED:
NOTE BOOK
NO.
GRADES CHECKED:
M.H. NUMBERED:
STRUCTURES NOTED:
DATE
BY

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

I-12

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. — DRAWN / CHECKED / ACCURACY CHECKED / RT. OF WAY CHECKED — DATE / BY

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — DRAWN / CHECKED / ACCURACY CHECKED / B. M. = NOTED / STRUCTURAL NOMENCLATURE (CHYO) — DATE / BY



RECORD DRAWING

ERIC RESKE REGISTERED LS No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

MANIFOLD ST. SECOND ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 20

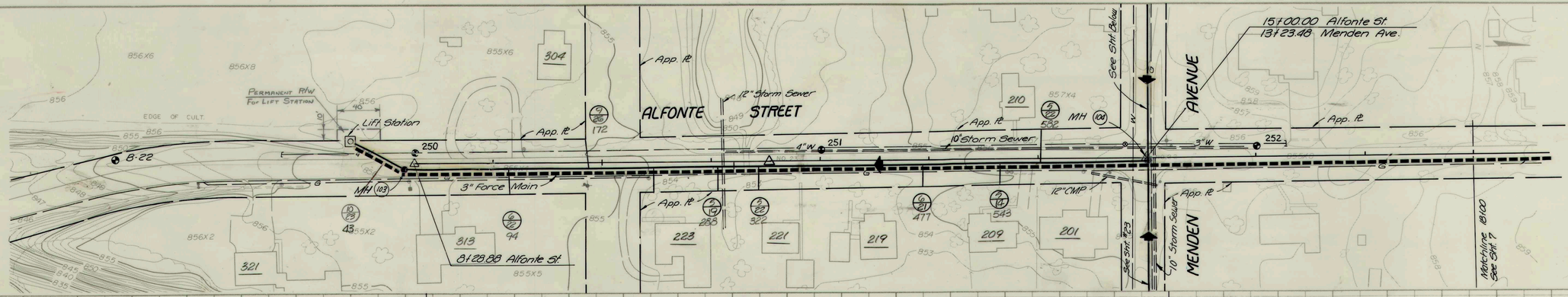
HORIZ. 1"=50' VERT. 1"=10'

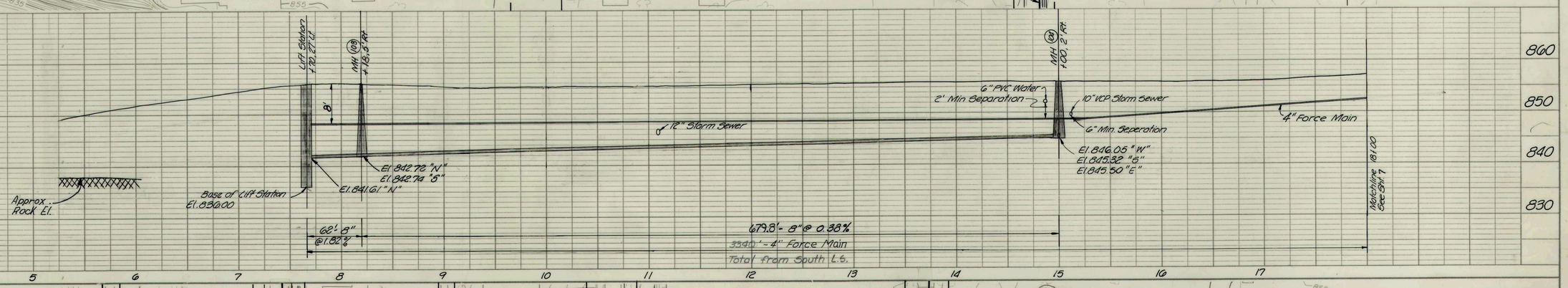
BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

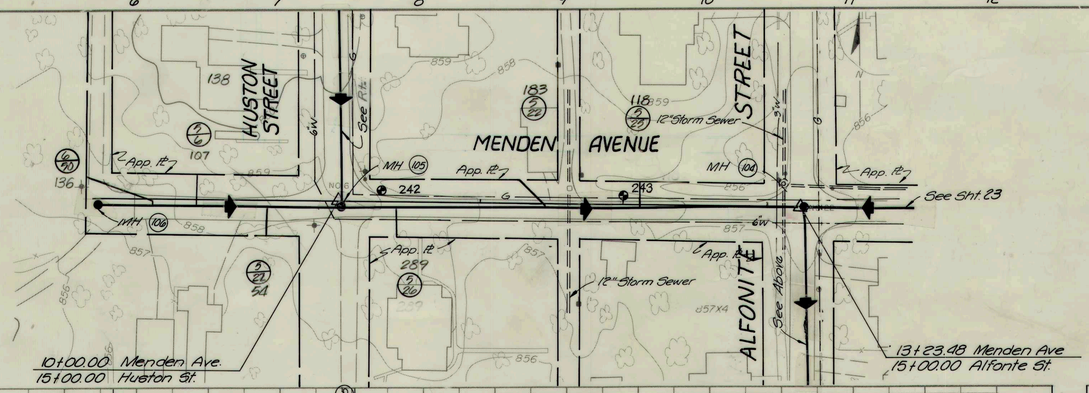
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

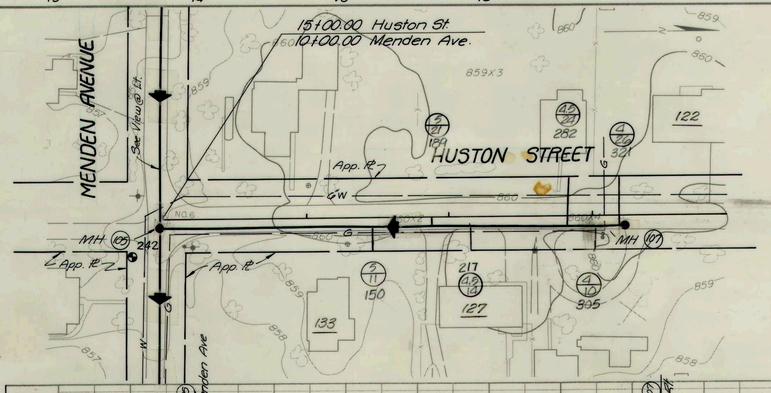
1-13

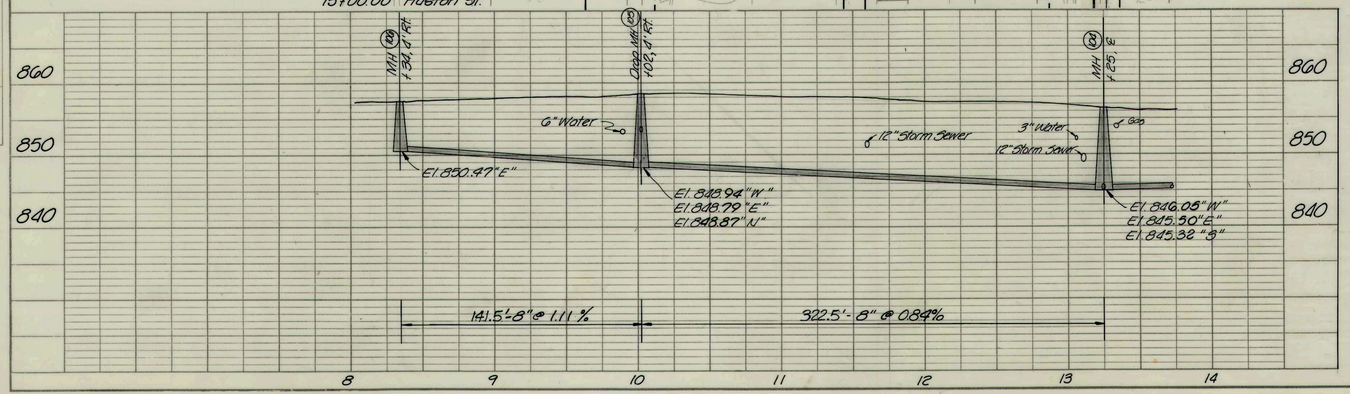
PLAN — SURVEYED, PLOTTED, TRACE CHECKED, R/W NOTED, STRUCTURE NO. ATTACHED, NOTE BOOK, NO., BY, DATE

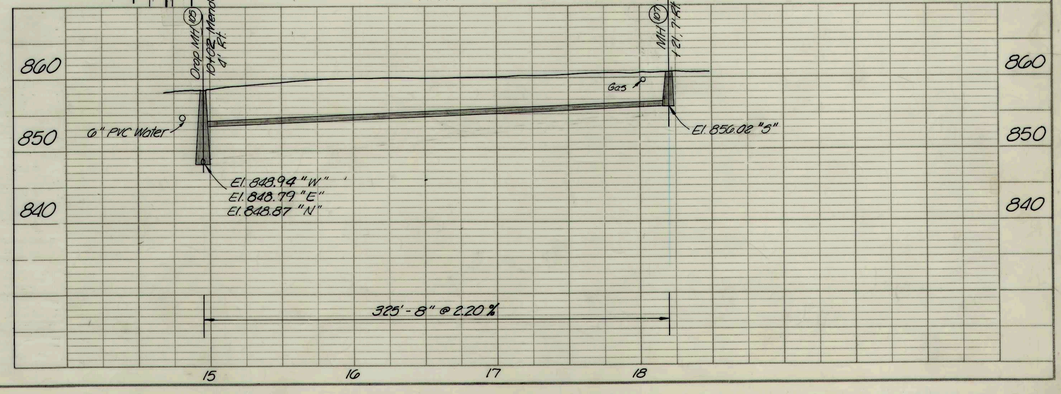












PROFILE — SURVEYED, PLOTTED, TRACE CHECKED, R/W NOTED, STRUCTURE NO. ATTACHED, NOTE BOOK, NO., BY, DATE

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — 3-30-93 — PROFESSIONAL ENGINEER

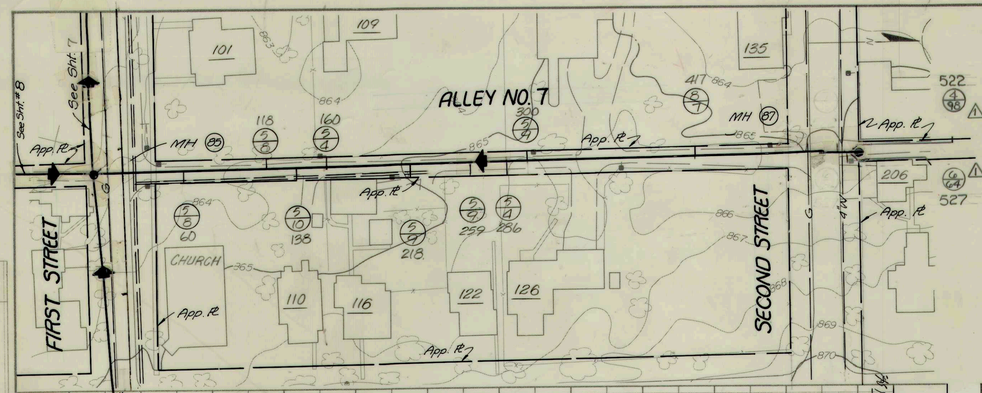
ALFONTE ST. MENDEN AVE. HUSTON ST.		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	21
VERT. 1"=10'		

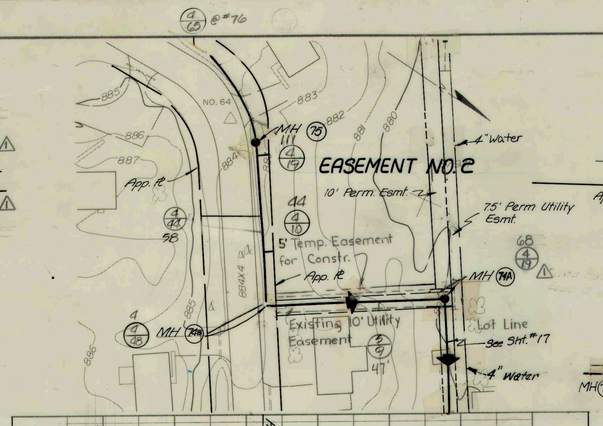
I-14

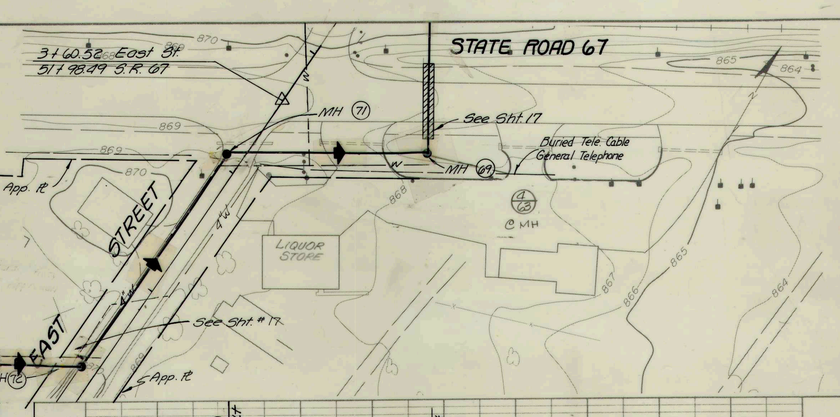
PHOTOGRAMMETRIC COMPILATION BY ACCU-MAP SURVEYS, INC. SEYMOUR, INDIANA

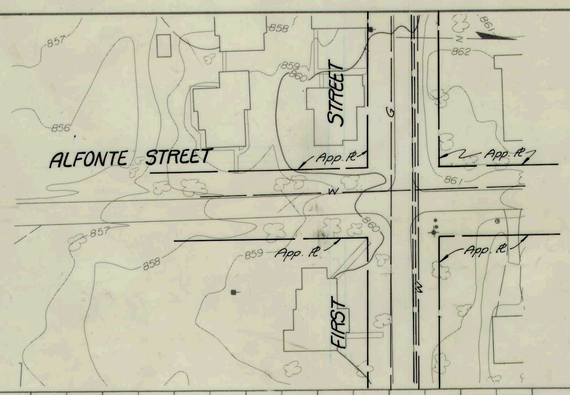
PLAN — SURVEYED, PLOTTED, GRADES CHECKED, R/W STAKED, RT. OF WAY CHECKED, STRUCTURE NOTATIONS CHKD. — NOTE BOOK — NO. — BY — DATE

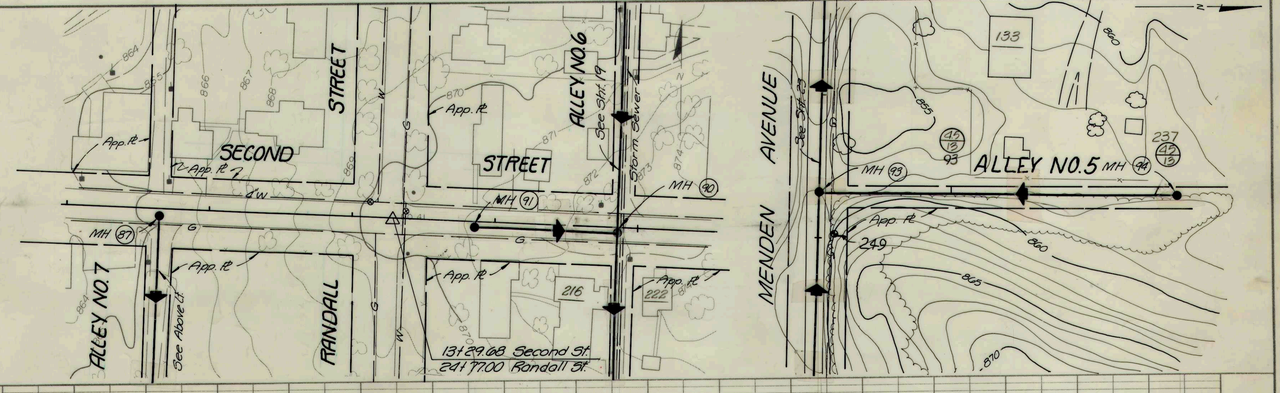
PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R/W STAKED, STRUCTURE NOTATIONS CHKD. — NOTE BOOK — NO. — BY — DATE











VOID

RECORD DRAWING

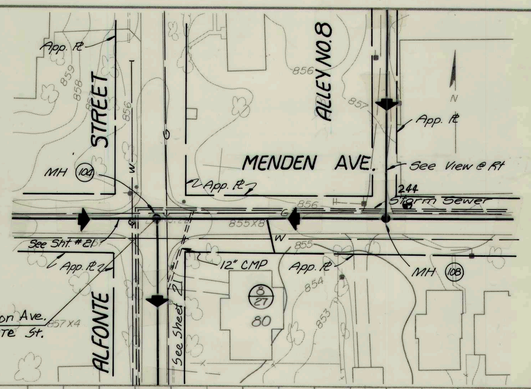
ENG. RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

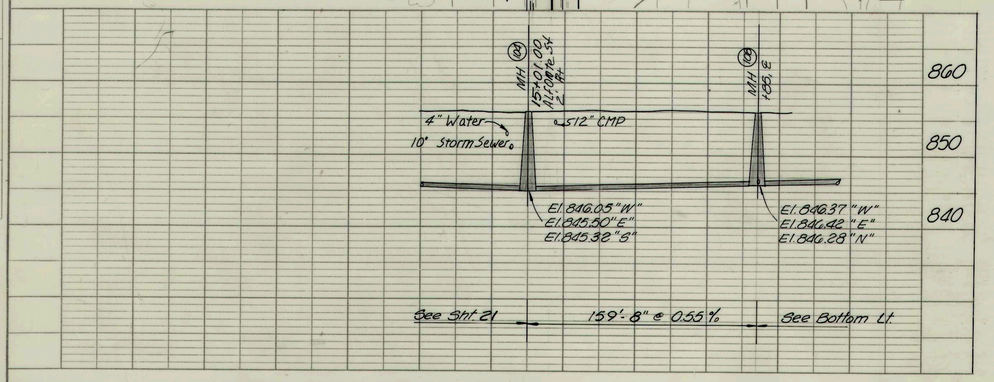
ALLEY #7, EAST ST. & S.R. 67
ALFONTE ST. SECOND ST.
FALL CREEK R.W.D. PLAN & PROFILE — SHEET 22
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

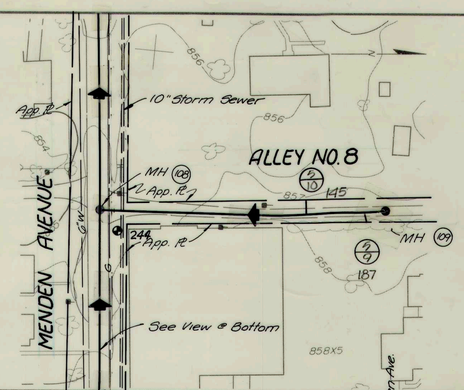
I-19A

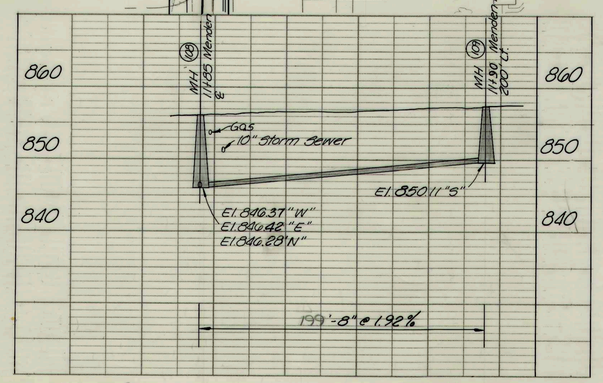
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SO. BEND, INDIANA

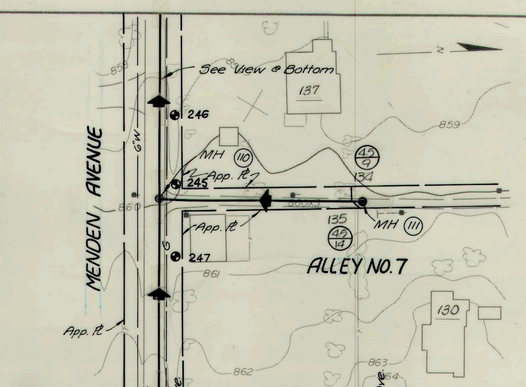
PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, STRUCTURE NOTATNS CHKD. — NOTE BOOK — NO. — BY — DATE

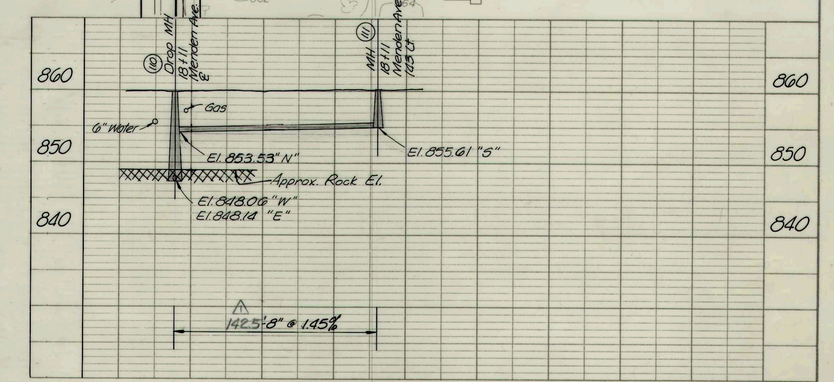


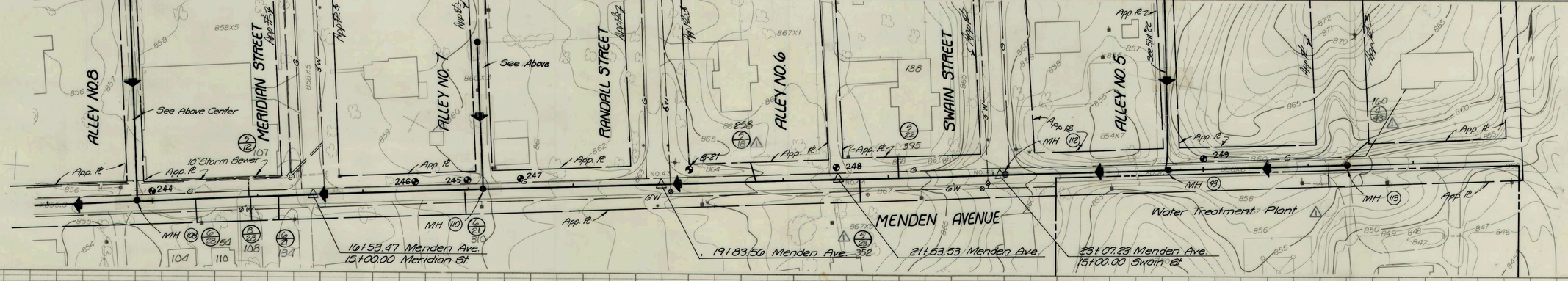


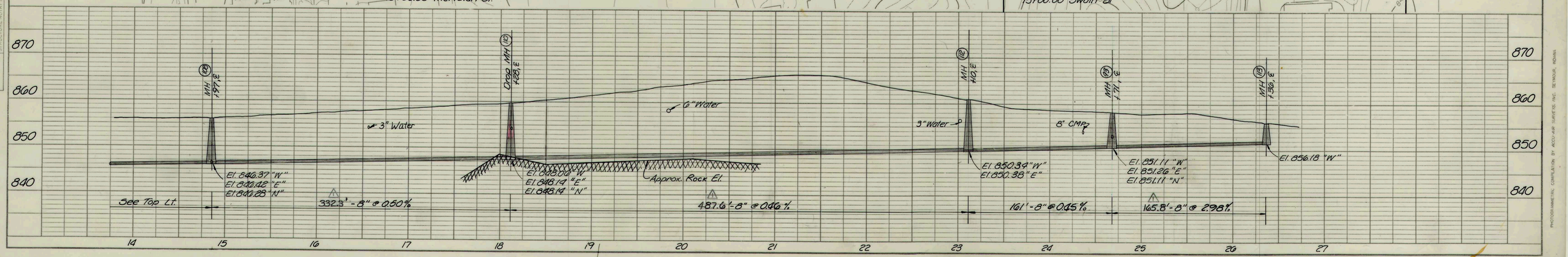












PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NOTATNS CHKD. — NOTE BOOK — NO. — BY — DATE

RECORD DRAWING

⚠ REVISED 4-17-86

ERIC RESKE REGISTERED No. 13048 STATE OF INDIANA PROFESSIONAL ENGINEER

ALLEY #7 & 8 MENDEN AVE.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 23

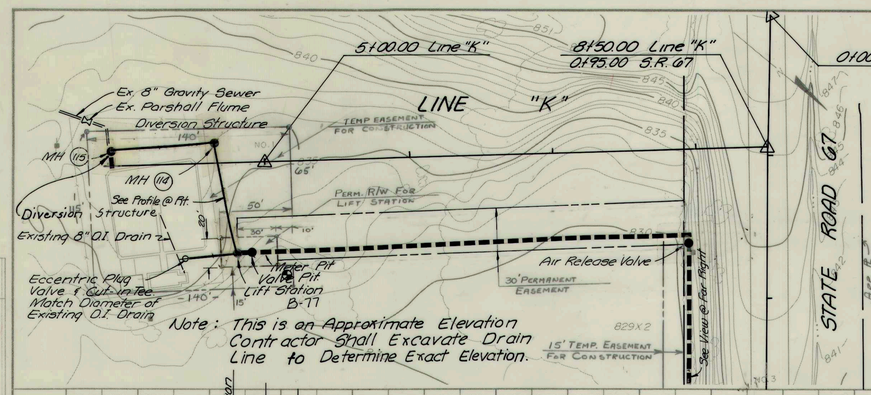
HORIZ. 1"=50' — VERT. 1"=10'

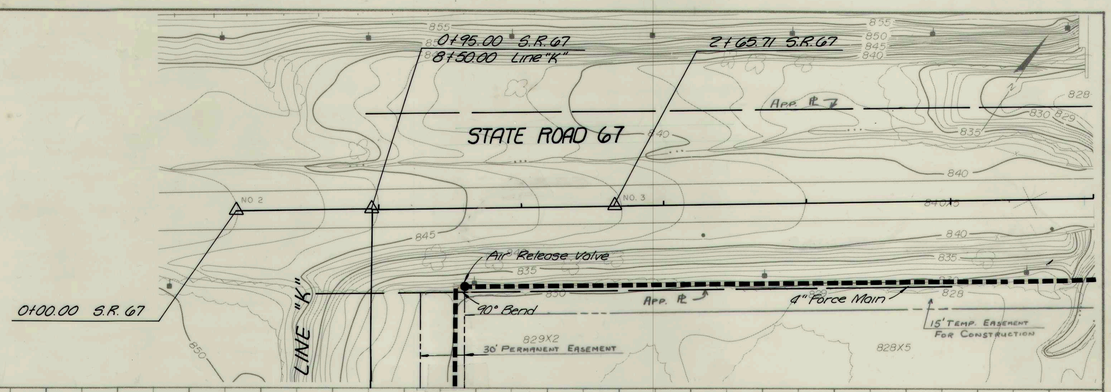
BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

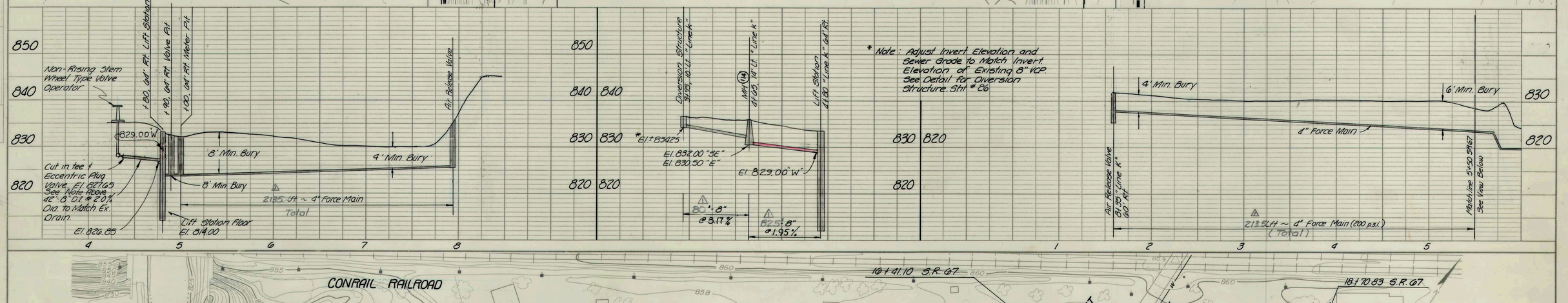
I-15

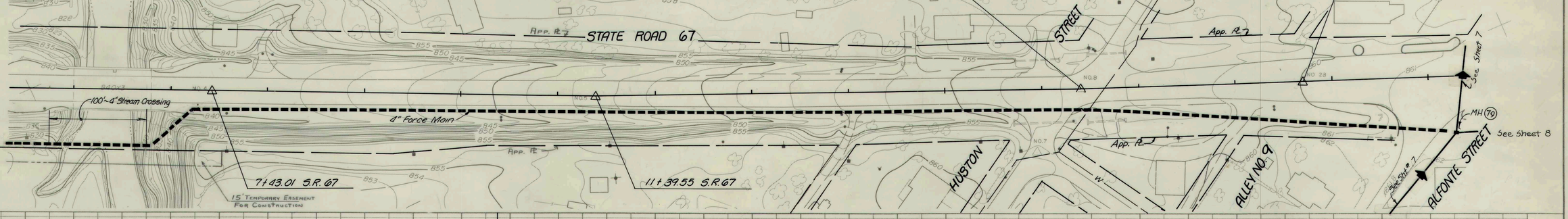
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS INC. SEYMOUR, INDIANA

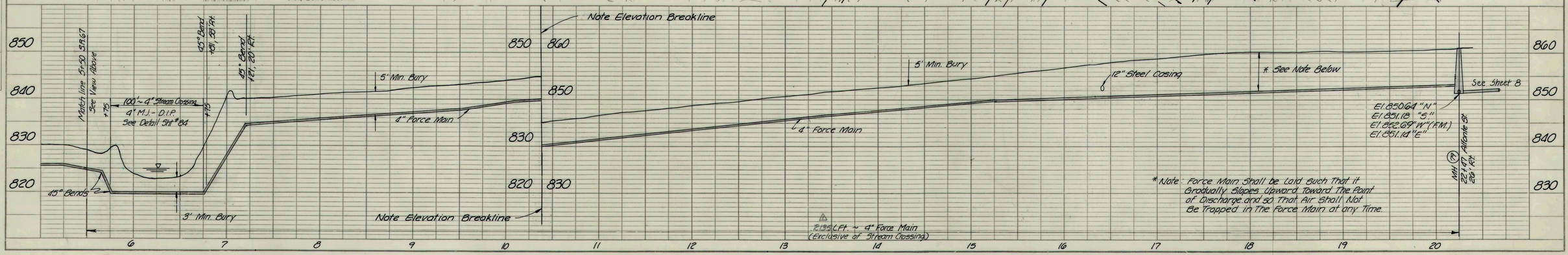
PLAN — SURVEYED / PLOTTED / GRADES CHECKED / R/W'S NOTED / STRUCTURE NOTATIONS CHKD. — NOTE BOOK / NO. — BY / DATE











PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R/W'S NOTED / STRUCTURE NOTATIONS CHKD. — NOTE BOOK / NO. — BY / DATE

Total all 4" F.M. this sec. 2135'

RECORD DRAWING

Revised 4-17-86

ERIC RESKE REGISTERED No. 13042 STATE OF INDIANA PROFESSIONAL ENGINEER

STATE ROAD 67 & LINE "K"		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 24
HORIZ. 1"=50' VERT. 1"=10'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	

I-K

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. BELMOND, IOWA

70+01.99 Reformatory Rd.
15+60.89 East of

CO. RD. 650 WEST

See View @ Right

72+46.61 Reformatory Rd.
0+00.00 Co. Rd. 650 W

Matchline 70+00
See Sht #15

Prop. 4" Water

Prop. Air Vacuum Release Valve

4" W

2-45° Bends

6" Force Main

REFORMATORY ROAD

Prop. 4" Gate Valve w/ Road Box

Ex. Flushing Hydrant

Ex. 4" Water Main

Note: The Contractor Shall Coordinate Their Construction Activities in This Area to Complete This Connection to The Satisfaction of the Engineer.

See View @ Left

6" Force Main

REFORMATORY ROAD

2-45° Bends

END OF DIVISION "A"

0+00.00 Co. Rd. 650 W
72+46.61 Reformatory Rd.

C.O. RD. 650 WEST

New 4" PVC Water Main

4" W

18" Force Main By Div."B" Contractor

18"x6"Y By Div."B" Contractor

31+25.47 Co. Rd. 650 W

Matchline Sta. 8+00

7+86.82 Co. Rd. 650 W
0+00.00 Plant Site

Air Release Valve

6" Force Main

4" Water Main

18"x6"Y By Div."B" Contractor

Matchline 70+00 See Sht #15

352 Lft ~ 6" Force Main (200psi)

See View @ Left

4" PVC Water

4' Min. Bury

Note Elevation Breakline

4' Min. Bury

42" CMP

22" CMP

4" PVC Water Main

Matchline Sta. 8+00 ~ See Below Lt.

70 71 72 73

CO. RD. 650 WEST

App. R/W

New 4" PVC Water Main

18" Force Main (By Div."B" Contr.)

1-45° Bend

1-22½° Bend

Thrust Block

R/W

18" Force Main By Div."D" Contractor

Proposed Driveway

Plant Site R/W

7+86.62 Co. Rd. 650 W

4"x4"x4" TEE

4"x4"x3" Tee

4" Gate Valve

Thrust Restraint

4" Plug, Tied Back to Water Main

Min. 18' of 4" P.V.C. Water Main

4" WATER

S 3" Water Meter Pit See Sht. #27

3" Plug

4'x4' Pole for Temporary Remote Readout

Proposed Brick Wall Permanent Remote Readout Location

Matchline Sta. 8+00 ~ See Above Rt.

4' Min. Bury

4" PVC Water Main

4"x4"x6" Tee

4" Plug

Thrust Restraint

4" Gate Valve

INCOMPLETE

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/W & PLOTTED
NO. STRUCTURE NOTATIONS CHKD.
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R/W PLOTTED
NO. STRUCTURE NOTATIONS CHKD.
NOTE BOOK
NO.
BY
DATE

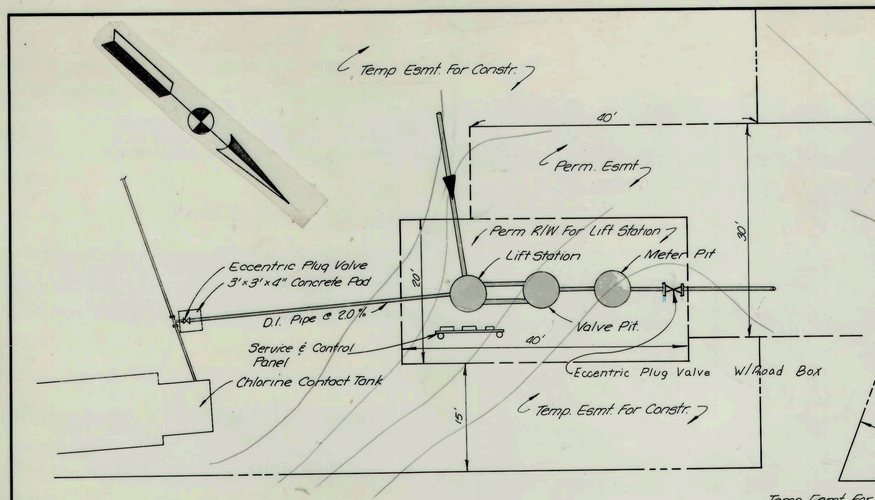
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

RECORD DRAWING

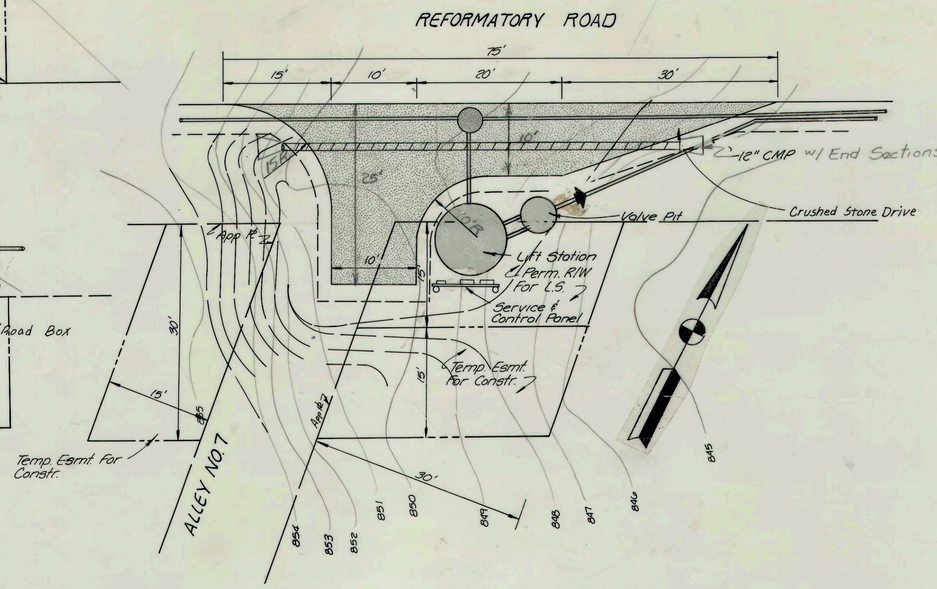
ERIC NESKE
REGISTERED
No. 13642
5-31-83
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REFORMATORY RD./Co. Rd 650 W
FALL CREEK R.W.D. PLAN & PROFILE
SHEET 25
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

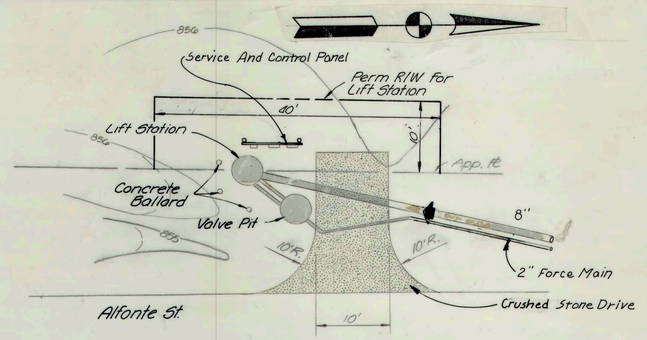
I-170



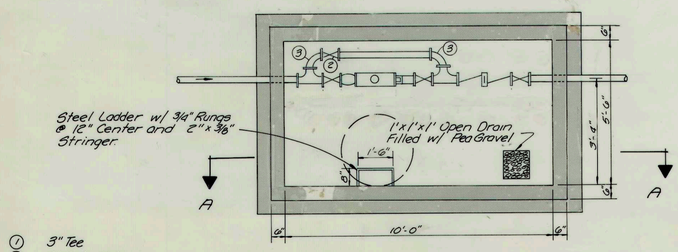
PENTECOSTAL CAMP LIFT STATION
Scale 1" = 10'



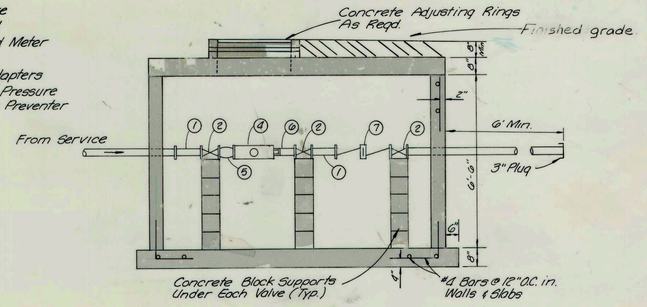
MAIN LIFT STATION
Scale 1" = 10'



SOUTH LIFT STATION
Scale 1" = 10'

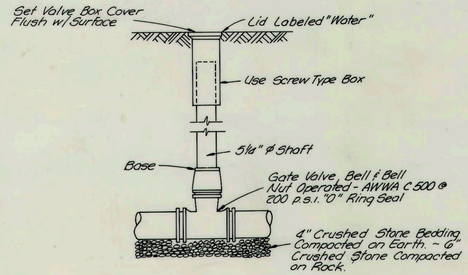


① 3" Tee
② 3" Gate Valve
③ 3" 90° Bend
④ 3" Compound Meter
⑤ 3" Strainer
⑥ Coupling Adapters
⑦ 3" Reduced Pressure Backflow Preventer

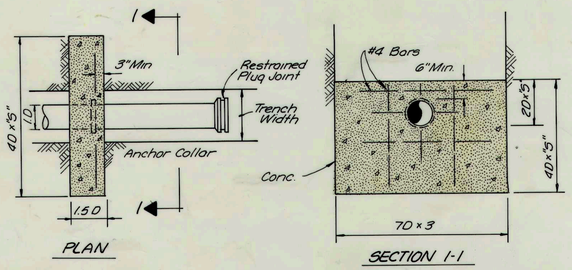


SECTION A-A

WATER METER PIT
Scale 3/8" = 1'-0"



GATE VALVE & VALVE BOX
No Scale



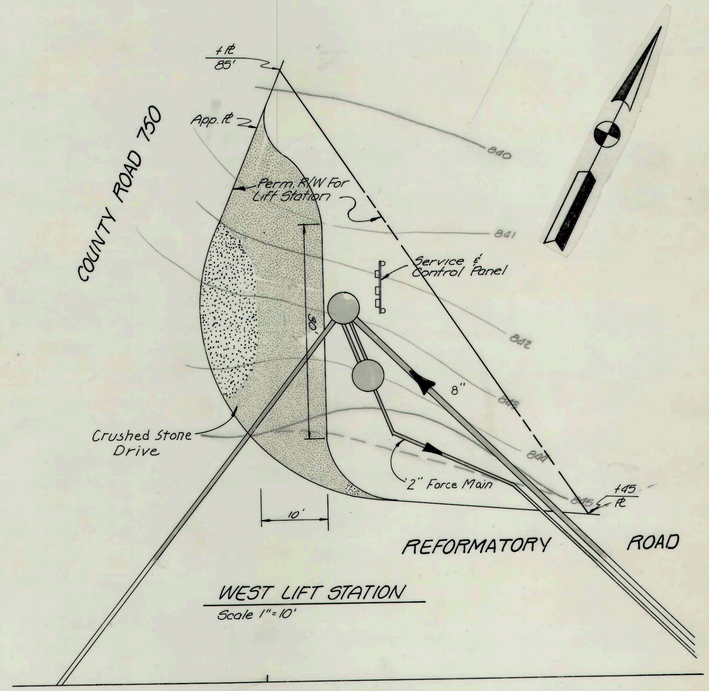
PLAN

SECTION 1-1

"S" FACTORS

Soft Clay	1.
Stiff Clay	.58
Hard Clay	.41
Loose Sand	.58
Medium, Compacted Sand	.50
Loose Gravel, Sand Mix	.41

ANCHOR BLOCK DETAILS
No Scale



WEST LIFT STATION
Scale 1" = 10'

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

INGALLS LIFT STATIONS / DETAILS

Scale: As Noted	FALL CREEK REGIONAL WASTEWATER DIST.	Sheet 27
Drawn By: J.B.	BEAM, LONGEST & NEFF	
Designed By: S.E.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MARBAUGH N26008

DIVISION "D" CONTRACT

DIVISION "A" CONTRACT
Cf. 650 WEST

DIVISION "B" CONTRACT

18" DIA. W. METER PIT

SHEET 34

SHEET 35

REMOTE A.R.V.

18" FM.

REMOTE A.R.V.

REFORMATORY ROAD

REMOTE A.R.V.

SHEET 36

18" FM.

A.R.V.

NE-MHP LIFT STATION

SHEET 37

18" FM.

SHEET 34

S.R. 67

LEGEND

- GRAVITY LINES
- FORCE MAIN
- MANHOLE
- EXISTING MANHOLE
- (13) MANHOLE Nº
- (69) SHEET Nº
- DIRECTION OF FLOW
- LIFT STATION
- SHEET COVERAGE ARROWS
- BORE AND JACK
- SLIPLINING
- CLEAN - TEST - SEAL - TEST

ER 1-30-85

2 of 3

8 of 13

RECORD DRAWING

FALL CREEK WASTEWATER FACILITIES		
Scale: 1"=200'	SEWER SYSTEM LAYOUT	Sheet
Drawn By: GLW	BEAM, LONGEST & NEFF	28
Designed By: J.P.	Consulting Engineers 8136 Castleton Road Indianapolis In. 46250	
Certified By: E.R.		

SHEET 42
FALL CREEK BLVD.
SHEET 43
10" F.M.
SHEET 43
LINE "R"
10" F.M.
SHEET 44
A.R.V.
SHEET 44
10" F.M.
45
SHEET 45
REFORMATORY LIFT STATION
LINE "R"
SHEET 40
STATE REFORMATORY
SHEET 39
LINE "FM"
SHEET 38
SHEET 37
18" F.M.
REFORMATORY
ROAD
A.R.V.
SHEET 37A
SHEET 37A
SHEET
CONRAIL
LINE "FM"
38
18" F.M.
S. R. 67
R.R.
LEGEND
GRAVITY LINES
FORCE MAIN
MANHOLE
EXISTING MANHOLE
MANHOLE Nº
SHEET Nº
DIRECTION OF FLOW
LIFT STATION
SHEET COVERAGE ARROWS
BORE AND JACK
SLIP LINING
CLEAN- TEST-SEAL-TEST
RECORD DRAWING
FALL CREEK WASTEWATER FACILITIES
Scale: 1"=200'
SEWER SYSTEM LAYOUT
Sheet
Drawn By: G.D.V.
Designed By: G.D.L.
Certified By: E.R.
BEAM, LONGEST & NEFF
Consulting Engineers
8136 Castleton Road
Indianapolis In. 46250
E.R. 3-20-83

STATE REFORMATORY

REFORMATORY LIFT STATION

LINE "R"

LINE "FM"

LINE "O"

LINE "P"

SHEET 44

SHEET 45

SHEET 55

SHEET 40

SHEET 39

SHEET 38

SHEET 36

SHEET 37

16" FM

18" FM

DIVISION "C" CONTRACT

MH (31) BY DIVISION "B" DIVISION "C" BEGINS

CONTRACT

CO. RD. 900 S.

67 RD. ST.

MICHELLE LN.

FAIRFIELD LN.

WOODLAND ENTRY

WOODLAND DR.

S.R.

6-34 6-35 6-36 6-37 6-38 6-39

122 123 124 125 126 127 128 128A 129 130 131

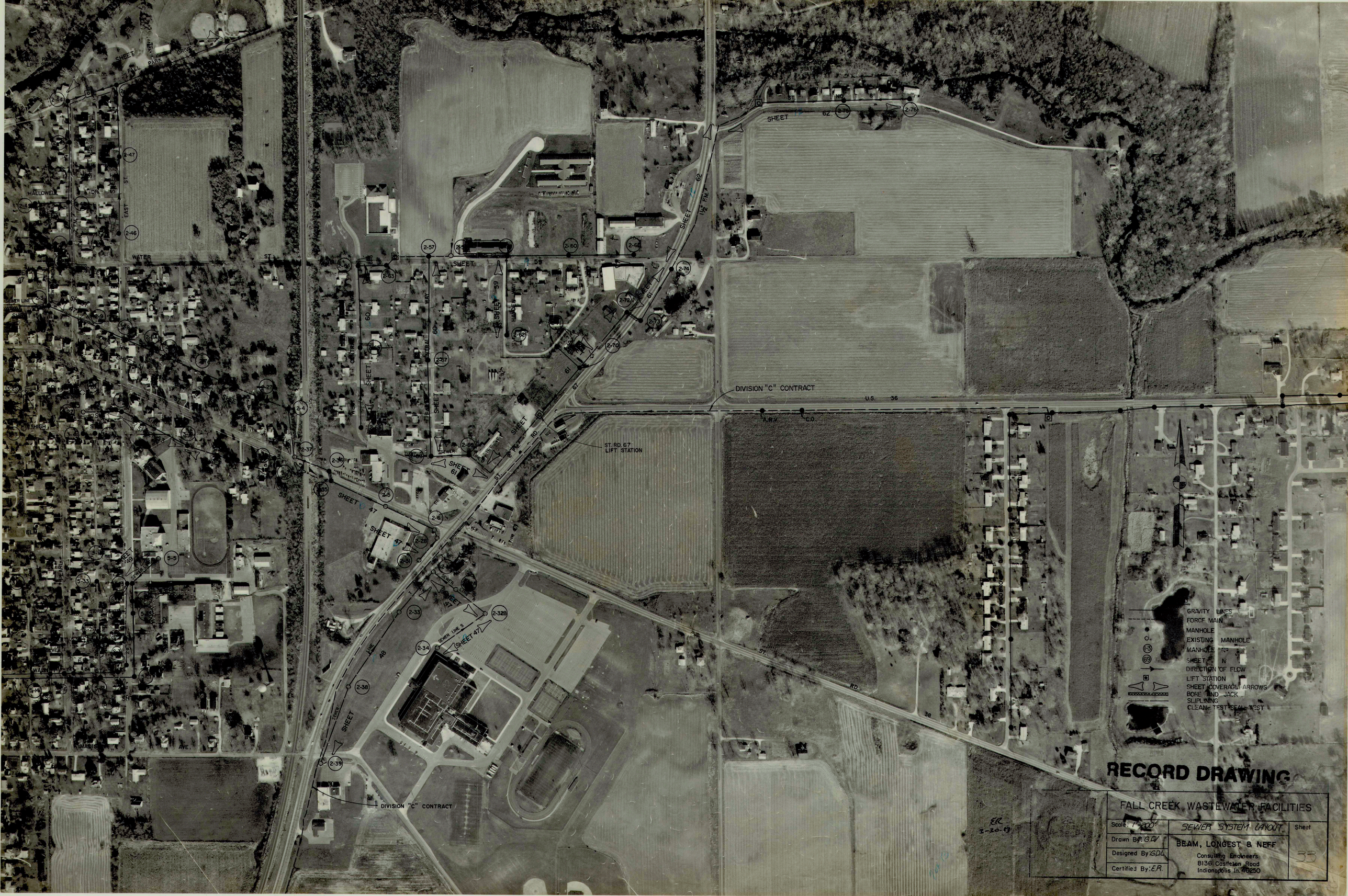
LEGEND

- GRAVITY LINES
- FORCE MAIN
- MANHOLE
- EXISTING MANHOLE
- MANHOLE NO.
- SHEET NO.
- DIRECTION OF FLOW
- LIFT STATION
- SHEET COVERAGE ARROWS
- BORE AND JACK
- SLIPLINING
- CLEAN TEST SEAL TEST

RECORD DRAWING

FALL CREEK WASTEWATER FACILITIES		
Scale: 1"=200'	SEWER SYSTEM LAYOUT	Sheet
Drawn By: GDW	BEAM, LONGEST & NEFF	30
Designed By: S.E.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road	
	Indianapolis In. 46250	

SHEET 48
LAUREL ST.
SHEET 49
SHEET 65
SPRING ST.
AVE.
SHEET 41
10" F.M.
A.R.V.
FALL CREEK BLVD.
SHEET 42
10" F.M.
A.R.V.
SHEET
MAIN
MOORE
AVE.
ST.
ARK
INDIANA
BROADWAY AVE.
SHEET
A.R.V.
SHEET
16" F.M.
16 BROADWAY AVE. LIFT STATION
63" F.M.
C.O.
RD
E.R.
REFORMATORY
ROAD
SHEET
SHEET
SHEET



RECORD DRAWING

FALL CREEK WASTEWATER FACILITIES		
Scale: 1"=200'	SEWER SYSTEM LAYOUT	Sheet
Drawn By: G.D.V.	BEAM, LONGEST & NEFF	33
Designed By: G.D.L.	Consulting Engineers 8136 Castleton Road Indianapolis, In. 46250	
Certified By: E.R.		

E.R. 2-20-69

Note

The contractors shall coordinate the construction activites in this area to complete all connections to the satisfaction of Engineer

REFORMATORY ROAD

72+46.61 Reformatory Rd. = 20+00.00 Co. Rd. 650 W

6" Force Main From Ingalls See Sht. 25 (Div. A)

P.O.T. 23+25.47 Co Rd 650 W

COUNTY ROAD 650 W

Existing Dual Drainage Pipes (42" Top & 21" Bottom)

Rdwy. Constr. Limits

P.I. 27+86.82 Co. Rd. 650 W Bk. = O.P.O.T. 0+00.00 Co. Rd. 650 W Ah., 5.00' Lt. Δ=0° 07' 10.9" Rt.

Priv. Dr. Req'd. W=14' L=18'

Sta. 3+50 "PR" Public Rd. Approach Type "A" Req'd. Rt.

150' Incidental Constr. Match exist pvmt., shldrs, ditches, etc.

P.O.T. 72+52.06 Ref. Rd. = P.O.T. 20+01.96 "PR" ℄=110° 52' 46.8" Rt.

6" Force Main (By Div. "A" Contractor)

Match Line 73+20

Thrust Block

45° Bend

18" x 6" Y (By Div. "B" Contractor)

1-45° Bend

1-22½° Bend

Perm Esmt.

Temp. Esmt. for Constr.

Temp RW for Constr.

96' of 48" Group "A" Pipe & 2-Pipe End Anchors Req'd.

18" Force Main

P.I. 27+86.82 "PR" Bk. = P.I. 0+00.00 "PR" Ah. Δ=0° 13' 43.6" Rt.

1-45° Bend

1-22½° Bend

Plug End

18" Force Main By Div. "D" Contractor

By Div. "B" Contractor

Plug End

975' ± - 18" Force Main

Matchline 23+20 Reformatory Rd. See Sht. 35

22½° & 45° Bend 20+35 Co. Rd. 650 W

Sta. 20+15 Co. Rd. 650 W

45° Bend

18" Force Main

Exist. Gd. ~ Line "PR"

Prop. Gd. ~ Line

3' Min. Bury

5' Min. Bury

18" Force Main

27+86.82 Bk. = EQUATION 0+00.00 Ah.

22½° & 45° Bend Sta. 2+10 "PP" Division B End

Notes:

Div. B Contractor Is Responsible For 18" Force Main As Shown Above.

Div. D Contractor Is Responsible For Construction Of The Road.

PLAN

SURVEYED: BY DATE
PLOTTED:
ALIGNMENT CHECKED:
NOTE BOOK: RT. OF WAY CHECKED:
NO.

PROFILE

SURVEYED: BY DATE
PLOTTED:
NOTE BOOK: GRADES CHECKED:
NO. B. M.'s NOTED:
STRUCTURES NOTATIONS CHKD.

NO. 254

See Sht. #67 For Details of C.S. Layout

Top 2" Force Main Into New 18" Force Main

10' Temp Esmt For Constr.

2" Force Main Pipe By Others

NE-MHP Lift Station

Perm RW

Existing Sewers

See Sht. #36

Perm Esmt. Temp Esmt for Constr.

125+29.52 Reformatory Rd.

18" Force Main

REFORMATORY RD.

El. 851.00 "SE" Stub Out 5'-8" Gravity Sewer and Plug

18" Force Main

2" Force Main

Lift Station Floor El. 845.00

Lift Station 125+61, 22' RT Reformatory Rd.

RECORD DRAWING

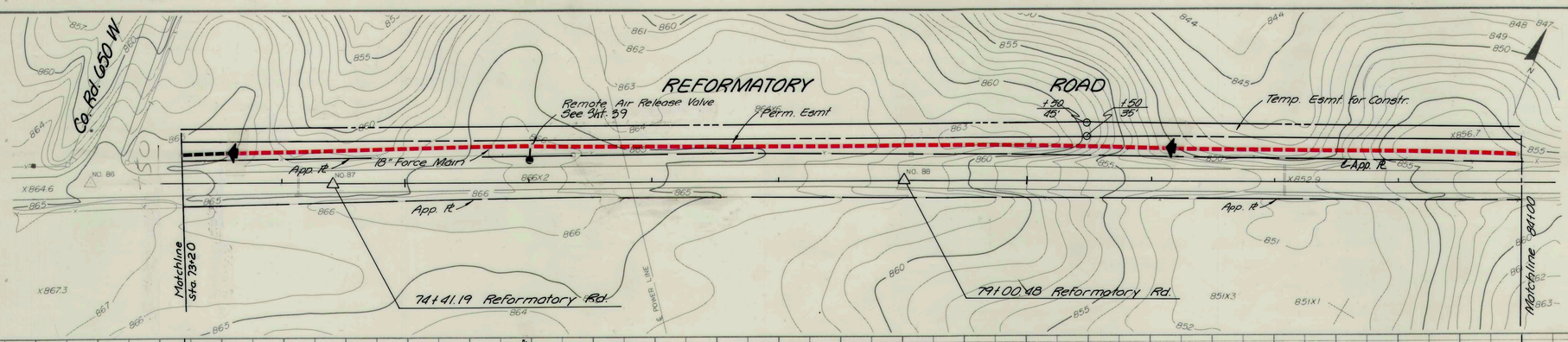
ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

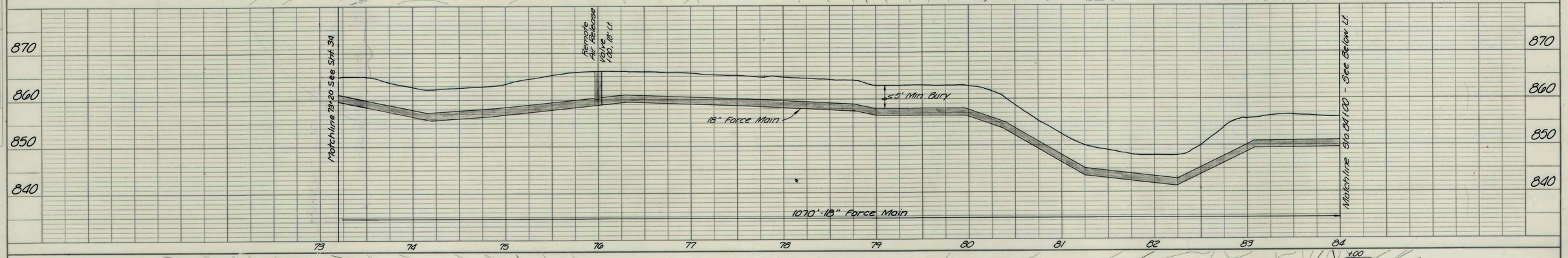
COUNTY ROAD 650 W.		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 34
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

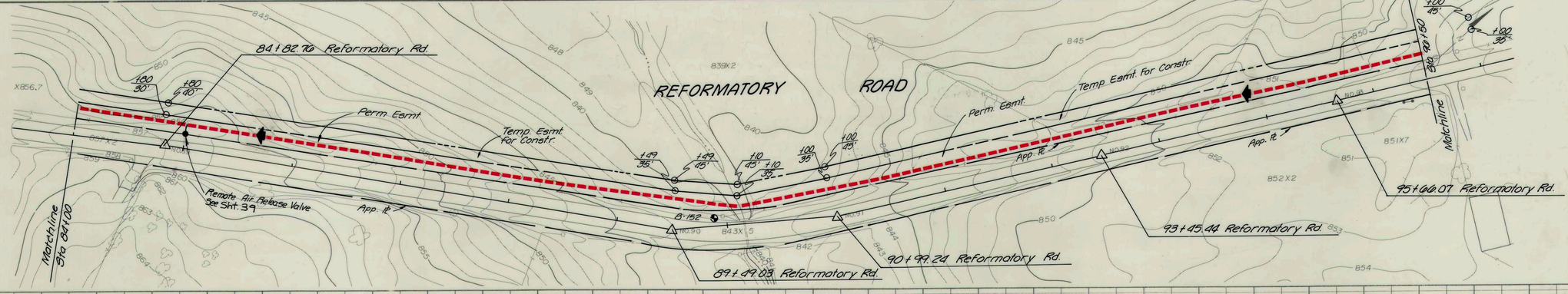
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

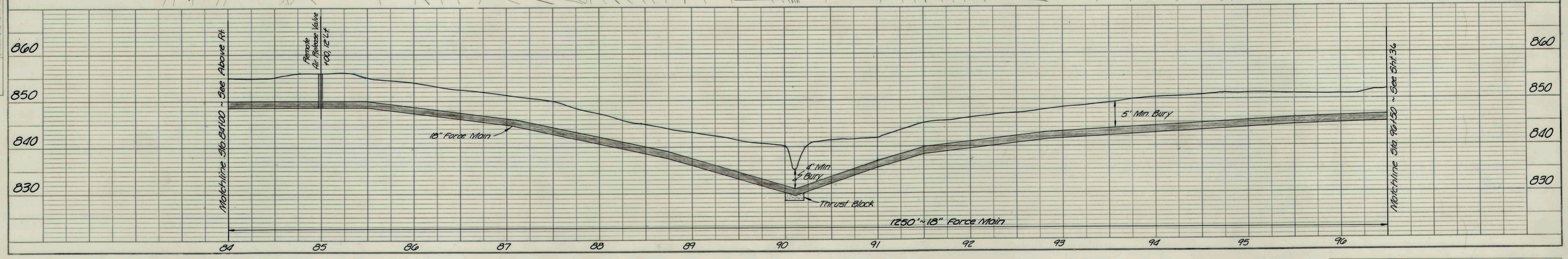
17

PLAN
SURVEYED:
PLOTTED:
GRADES CHECKED:
ALIGNMENT CHECKED:
R.O.W. CHECKED:
STRUCTURE NOTATIONS CHKD:
NOTE BOOK
NO.
DATE
BY









PROFILE
SURVEYED:
PLOTTED:
GRADES CHECKED:
ALIGNMENT CHECKED:
STRUCTURE NOTATIONS CHKD:
NOTE BOOK
NO.
DATE
BY

RECORD DRAWING

ERIC RESNE REGISTERED No. 13449 STATE OF INDIANA PROFESSIONAL ENGINEER 7-30-83

18" FORCE MAIN - REFORMATORY RD.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 35

HORIZ. 1"=50'
VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

REPRODUCED BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

State of Indiana

Remote Air Release Valve See Sht 39

Temp. Esmt. for Constr. / Perm. Esmt.

REFORMATORY ROAD

18" Force Main

App. ℄

Temp. Esmt for Constr.

Temp. Esmt. for Constr. / Perm. Esmt.

Matchline Sta 90+50

Matchline Sta 111+00

99+66.44 Reformatory Rd.

105+49.27 Reformatory Rd.

110+47.20 Reformatory Rd.

B-151

Remote Air Release Valve 720.15' Lt.

Matchline Sta 90+50 ~ See Sht 35

18" Force Main

5' Min. Bury

1450' - 18" Force Main

Matchline Sta 111+00 ~ See Below Lt.

Matchline Sta. 111+00

Temp. Esmt. for Constr. / Perm. Esmt.

18" Force Main

Air Release Valve See Detail

REFORMATORY ROAD

App. ℄

Perm. Easement

Temp. Easement For Construction

See Sht #67 For Details of L.S. Layout

Perm. R/W

10' Temp. Esm't. For Constr.

Sta 126+00

Matchline Sta. 126+00

115+39.71 Reformatory Rd.

120+35.58 Reformatory Rd.

125+29.52 Reformatory Rd.

Matchline Sta. 111+00 ~ See Above Rt.

Air Release Valve 1,335.10' Lt.

5' Min. Bury

18" Force Main

1300' - 18" Force Main

Matchline Sta. 126+00 ~ See Sht. 37

RECORD DRAWING

ERIC RESKE REGISTERED No. 13447 STATE OF INDIANA PROFESSIONAL ENGINEER 3-31-87

18" FORCE MAIN - REFORMATORY RD

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 36

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, BASE MAP CHECKED, STRUCTURE NOTATNS CHKD, RT. OF WAY CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BASE MAP CHECKED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

R-2

PHOTOGRAMMETRIC COMPILATION BY AERO-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
GRADES CHECKED
R/W NOTED
RT. OF WAY CHECKED
DATE
BY

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
R/W NOTED
STRUCTURE LOCATING CHKD
DATE
BY

REFORMATORY ROAD

Temp. Esmt for Constr.
Perm Esmt.
18" Force Main
8"-150
15° Bends
Matchline Sta. 126+00
See Sht #36
128+80.06 Reformatory Rd.
133+71.86 Reformatory Rd.
138+57.27 Reformatory Rd.
Matchline Sta. 140+50
App. R/
NO. 100
NO. 101
NO. 102
5' Min. Bury
1450' - 18" Force Main
Matchline Sta. 126+00 - See Sht #36
Matchline Sta. 140+50 - See Below Lt.

COUNTY ROAD 900 S

1-11¼° Bend
1-22½° Bend
Thrust Block
Matchline Sta. 140+50
See Above
Air Release Valve
See Detail
18" Force Main
Temp. Esmt for Constr.
Perm. Esmt.
Matchline 1+00.00
See Sht 38
0+00.00 Co. Rd. 900 S
141+16.32 Reformatory Rd.
41+70.98 Co. Rd. 900 S
91+59.64 Co. Rd. 900 S
134+28.11 Co. Rd. 900 S
0+00.00 "Force Main"
Δ = 33° 56' 37.6" Lt.

"Reformatory Rd." See Above Sta.
Air Release Valve 133+17 Lt.
5' Min. Bury
1500' - 18" Force Main
11¼° Bend 22½° Bend 181+22 Lt.
"18" Force Main"
Matchline Sta. 1+00 See Sht 38

VOID - SEE SHT 37A

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

18" FORCE MAIN - 900 S & REFORMATORY RD.		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	37
VERT. 1"=10'		

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

12-3

+45 (Ref. Rd.) 40'

+45 (Ref. Rd.) 50'

+71.75 (Ref. Rd.) 50'

+67.61 (Ref. Rd.) 40'

0+00.00 Co. Rd. 900 S.
141+16.32 Reformatory Rd.

PB-1MM

Temp. Esm't. For Constr.

Exist. Temp. Esm't. For Constr.

REFORMATORY ROAD

Match line 140+50 See Sht. 37

1-45° Bend w/ Thrust Block App. Pr

Perm. Esm't.

10' Temp. Esm't for Constr.

A.R.V. (At local High Pt.)

Exist. Perm. Esm't.

+45 (Ref. Rd.) Pr

15' Perm. Esm't.

PB-1LL

+64.89 (Ref. Rd.) Pr

1-45° Bend w/ Thrust Block

0+76.98 Co. Rd. 900 S.

10' Temp. Esm't. For Constr.

15' Perm. Esm't.

1LL

1MM

PROPOSED COUNTY ROAD 900 S.

COUNTY ROAD 900 S.

9+59.64 Co. Rd. 900 S.

STATE OF INDIANA

13+24.11 Co. Rd. 900 S.
0+00.00 "Force Main"
Δ=33°56'37.6" Lt.

Match line 11+00 See Sht. 38

10' Temp. Esm't. For Constr.

20' Perm. Esm't.

1-90° Bend w/ Thrust Block

18" Force Main

App. Pr

Exist. Temp. Esm't. For Constr.

Exist. Perm. Esm't.

CONRAIL R.R.

STATE ROAD 67

RECORD DRAWING

COUNTY ROAD 900 S.		
Scale: 1"=50'	FALL CREEK	Sheet
Drawn By: G.D.V.	BEAM, LONGEST & NEFF	37A
Designed By: D.N.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

Panhandle Eastern Pipeline Gas Lines
Contractor to Use Extreme Caution in This Area
Lines Are in There Approximate Location.
Contractor Must Verify Depth & Location with
Gas Corp. Before Construction.

18" Force Main
Temp. Esmt. for Constr.
Perm. Esmt.
App. R/
Matchline Sta 1+00
Matchline Sta 15+75
CONRAIL R.R.
S.R. 67
Matchline Sta 1+00 - See Sht 37
Matchline Sta 15+75 - See Below Lt
14" @05
6" @05
1475' - 18" Force Main

Temp. Esmt. for Constr.
Perm. Esmt.
18" Force Main
Matchline Sta 15+75
Abandoned R.R. Tracks
10' Temp. Esmt for Constr.
15' Perm. Esmt.
L85 5'
L80 5
L05 0
R05
P.I. 23+30.87
Δ = 50°33'58" Lt.
Thrust Block
1-45 bend
Matchline Sta 25+00
Matchline Sta 25+00 - See View @ Rt
Matchline Sta 15+75 - See Above Rt
5' Min Bury
45° Bend
114" Bend
184.3 Feet
925' - 18" Force Main

Gravel Access Road
10' Temp. Esmt. for Constr.
Yard Hydrant
15' Perm. Esmt.
18" Force Main
1"W
Abandoned R.R. Tracks
Matchline Sta 30+40
See Sht #39
Matchline Sta 25+00 - See View @ Lt
1" Water
5' Min Bury
540' - 18" Force Main

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWN CHECKED
ABOVE NOTED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWN CHECKED
BM NOTED
STRUCTURE NOTATIONS CHKD

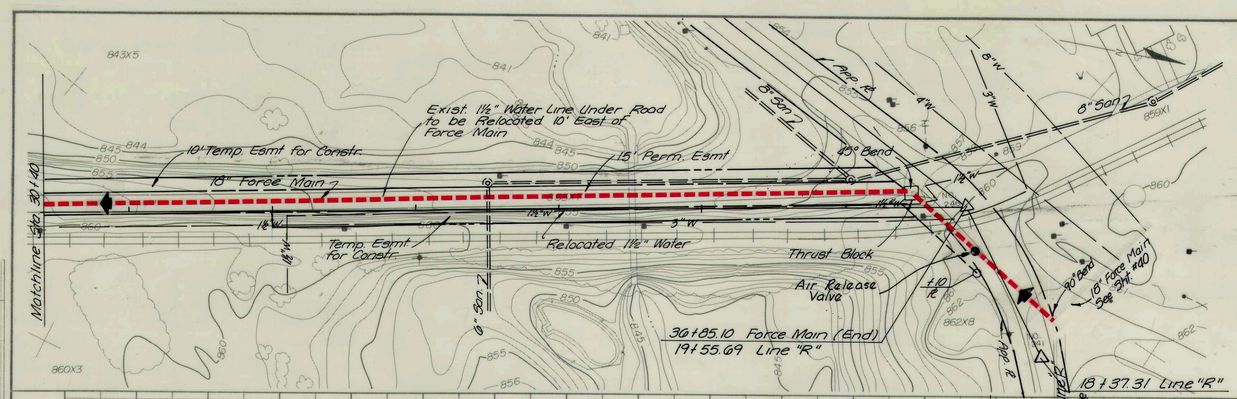
RECORD DRAWING

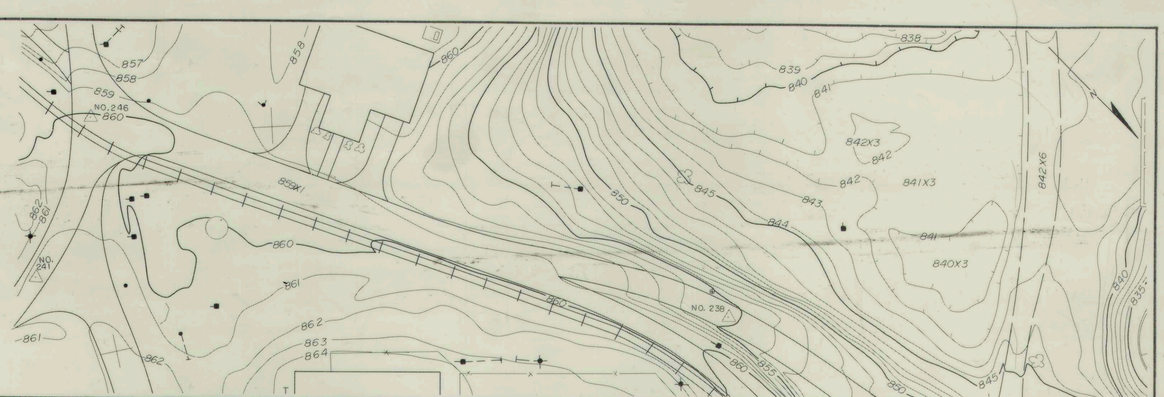
ERIC RESKE
REGISTERED
No. 13436
3-22-93
STATE OF INDIANA
PROFESSIONAL ENGINEER

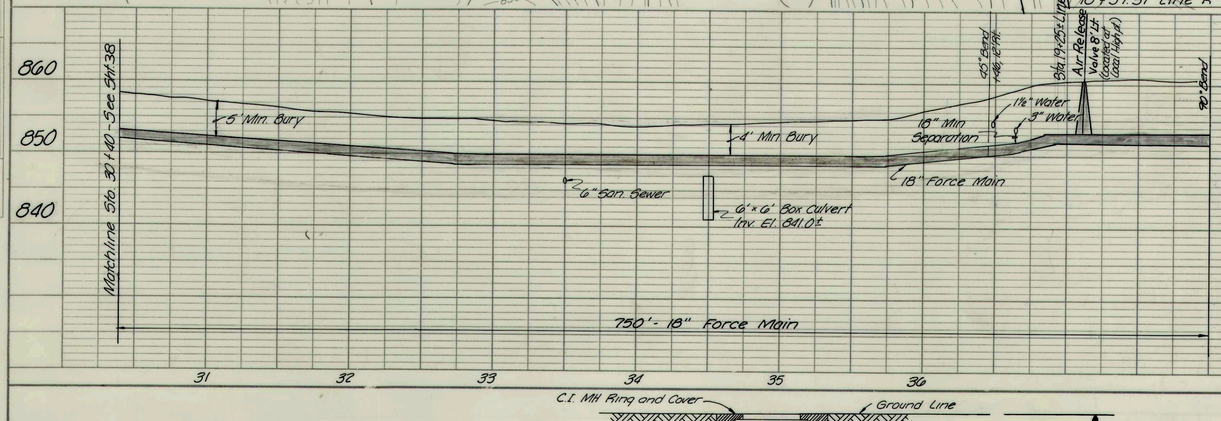
18" FORCE MAIN
FALL CREEK R.W.D. PLAN & PROFILE
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA
SHEET 38

R-4

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. TETMORE, INDIANA



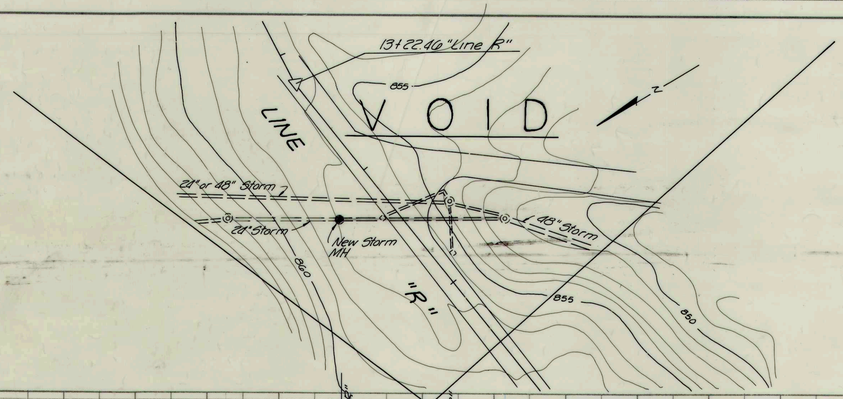




VOID

REMOTE FORCE MAIN AIR RELEASE

No Scale



RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 3-31-83

18" Force Main
Remote Air Release Valve Detail

FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC.	39
VERT. 1"=10'	CONSULTING ENGINEERS	
	INDIANAPOLIS, INDIANA	

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED — NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, BY, DATE, STRUCTURE NO'S ATN'S CHKD — NOTE BOOK, NO.

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

R-5

PLAN — SURVEYED: PLOTTED: CHECKED: AS BUILT: CHECKED: R/W & EASEMENTS NOTED: STRUCTURE NOTATIONS CHKED: NOTE BOOK: NO.: DATE: BY:

PROFILE — SURVEYED: PLOTTED: CHECKED: AS BUILT: CHECKED: R/W & EASEMENTS NOTED: STRUCTURE NOTATIONS CHKED: NOTE BOOK: NO.: DATE: BY:

MH (131) By Div. B Contractor

See Div. "C" Sht. #13

End Div. "B" Contract
Start Div. "C" Contract

STATE ROAD 67

210' Bore & Jack

Temp. Easmt for Constr.

15' Perm. Easmt.

10' Temp. Easmt for Constr.

MH (130)

LINE "R"

MH (129)

302

8+42.16 Line "R"

6+43.66 Line "R"

Match line Sta. 13+00

MH (128)

11+66.85 Line "R"

MH (131) 1031.40 S. 67° 52' Rt.

18" D.I. Pipe to be installed to M.H. 131

D.I. Pipe to Sewer Pipe Adapter Fitting Reqd.

El. 856.28 "NW"
El. 856.38 "NE"

Bore & Jack 210' of 36" Steel Casing @ 0.25%
(Min Wall Thickness 0.532")

El. 856.38 "SE"
El. 856.28 "W"

@ 21 Rt.

220' of 18" Ductile Iron Pipe @ 0.25 %

176' - 18" @ 0.25%
(Exclusive of Bore & Jack)

See View @ Rt.

MH (130) 4+79.29 Lt. Line "R"

See View @ Lt.

MH (129) 1+91.20 Lt.

6" Storm Sewer

El. 856.38 "W"
El. 856.28 "SE"

419' - 18" @ 0.39%

MH (128) 165.21' Lt.

El. 854.45 "NW"
El. 854.75 "E"

See @ Rt.

See @ Lt.

El. 854.75 "E"
El. 854.45 "NW"

455' - 18" @ 0.34 %

El. 852.99 "NE"
El. 852.89 "SW"

13+22.46 Line "R"

Match line Sta. 13+00

Temp. Easmt for Constr.

Perm. Easmt.

45° Storm

* Note: Contractor Shall Excavate Storm Sewers Prior to Construction of This Section of Gravity Sewer To Verify Location and Depth.

See Note Above

MH (128)

10' Temp. Easmt for Constr.

15' Perm. Easmt.

20' Perm. Easmt.

MH (127)

18+37.31 Line "R"

MH (128) 1,061.65' Rt.

Ex. 24" Storm Sewer

El. 847.32 "SE"
El. 846.32 "SW"

El. 845.95 "NE"
El. 845.25 "NW"

Match line Sta. 13+00 ~ See Above Rt.

See Above Rt.

200' - 15" @ 1.50 %

333' - 18" @ 0.62 %

See View @ Rt.

MH (127) 1+27.26 Lt.

See Sht. #39 for Continuation of Force Main

19+56.69 Line "R"

Buried Power Cable

4" Storm

Power Poles

10" San. Sewer

20' Perm. Easmt.

18" Force Main (200 psi)

MH (126)

90° Bend

4" Gas

4" Steam
8" Water

1" Water

Drop MH (126A) 23+19.36' Lt.

18" W

Profile along 18" Force Main

El. 841.18 "SE"
El. 840.14 "NW"
El. 844.62 "SE"
El. 843.32 "NW"

El. 834.00 "N"
El. 836.30 "E"

Ex. 18" Backwash Sewer

254' - 18" @ 1.30 %

Prop. 11" Sewer (Yard Piping)

This Section of Sewer not To be Completed Until Directed By Owner.

El. 833.00 "NW"
El. 832.80 "E"
El. 835.08 "W"

430' - 18" @ 0.93 %

55' - 18" @ 4.25 %

710' - 18" Force Main (200 psi)

Note: Where 18" Force Main & 18" Gravity Sewer are in the Same Trenchline, A 5' Horizontal Clear Distance Shall Be Maintained. All Bedding Shall Be Placed on Undisturbed and Confined Earth or Compacted Backfill Approved By the Engineer

SEE YARD PIPING PLAN Sht. #69

Temp. Easmt for Constr.

15' Perm. Easmt.

Prop. Force Main See Sht. #45

Prop. Lift Station 90° Bend See Sht. 69

MH (122)

MH (123)

Prop. Sewer See Sht. #69

Temp. Easmt.

Perm. Easmt.

When directed By Owner, Contractor Shall Remove 20' of the 18" Backwash Sewer and Plug.

MH (121)

MH (122)

24+22.74 Line "R"

Metering MH

NOTE: All pipe & Manhole items used to connect existing 18" backwash Sewer to Lift Station are included in "Yard Piping"

23+19.36' Lt. Included in "Yard Piping"

REVISED 3-19-84
CHANGED PERM. R/W TO PERM ESMT AROUND LIFT STATION

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA 3-30-83 PROFESSIONAL ENGINEER

18" GRAVITY SEWER ~ REFORMATORY INTERCEPTOR
18" FORCE MAIN ~ REFORMATORY ROAD

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 40

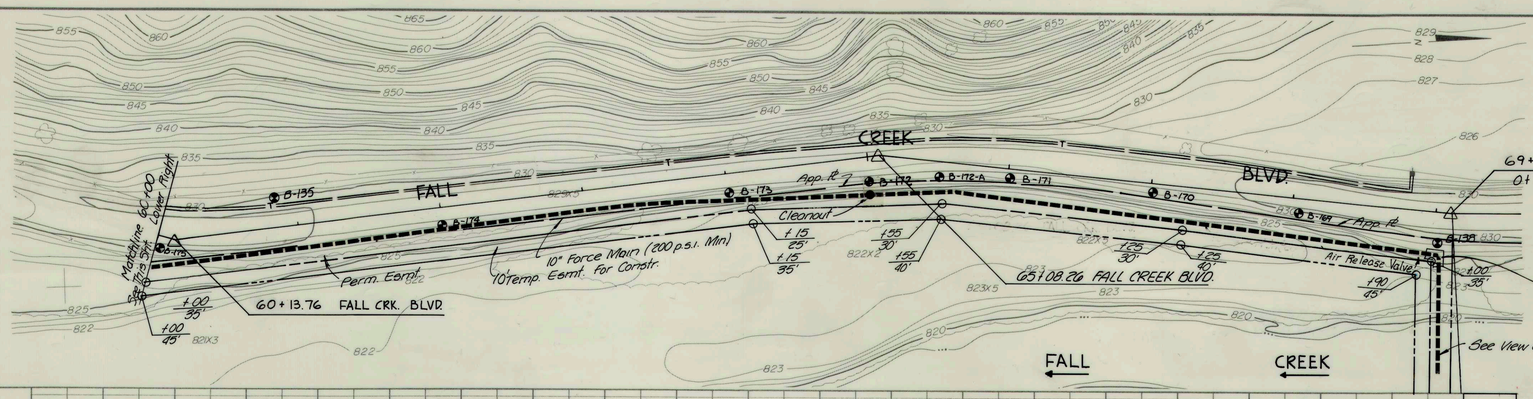
HORIZ. 1" = 50'
VERT. 1" = 10'

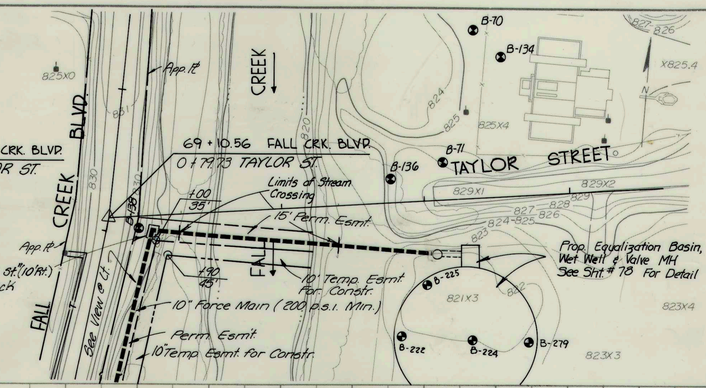
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

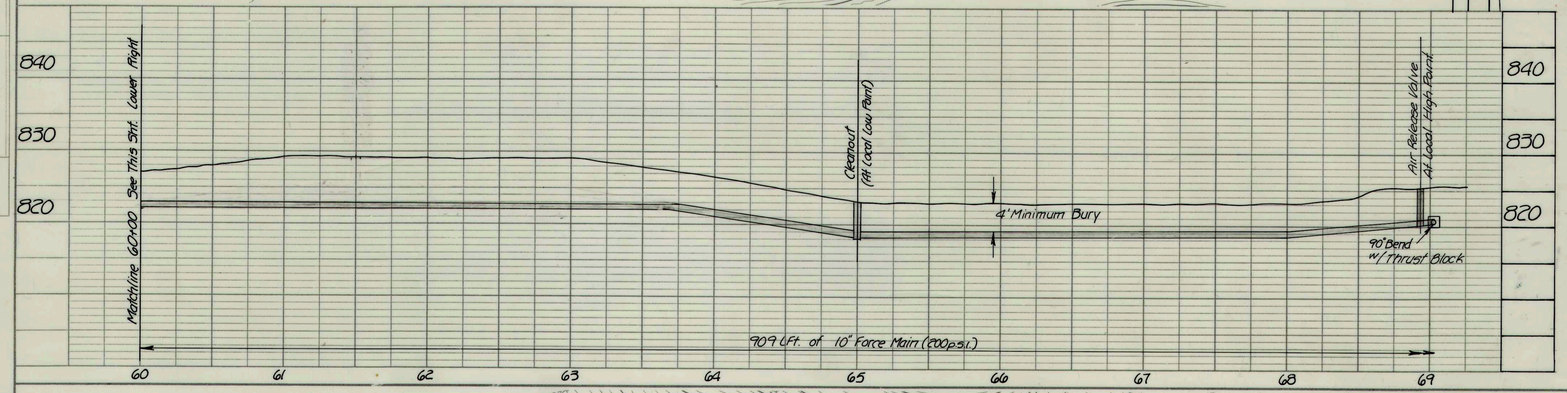
RF1

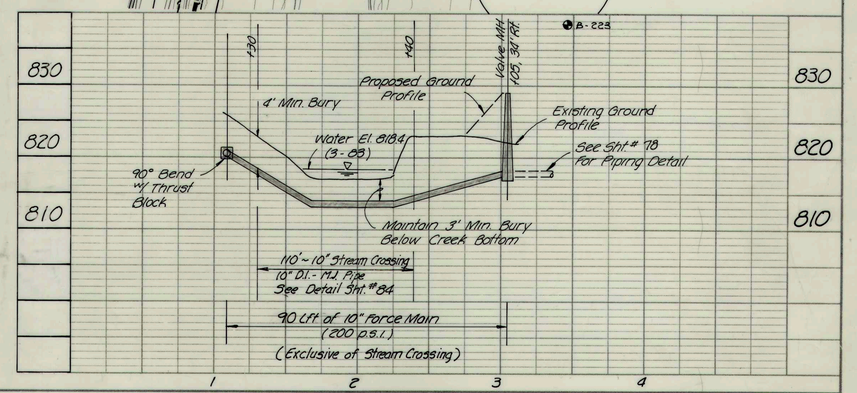
PHOTOGRAMMETRIC COMPILATION BY AERO-AIR SURVEYS, INC. SEYMOUR, INDIANA

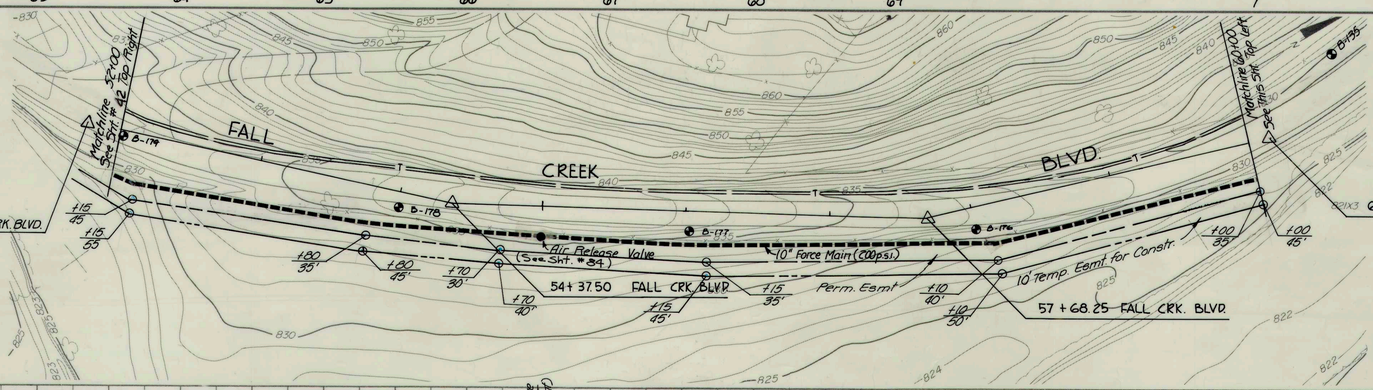
PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED — NOTE BOOK — NO. — BY — DATE

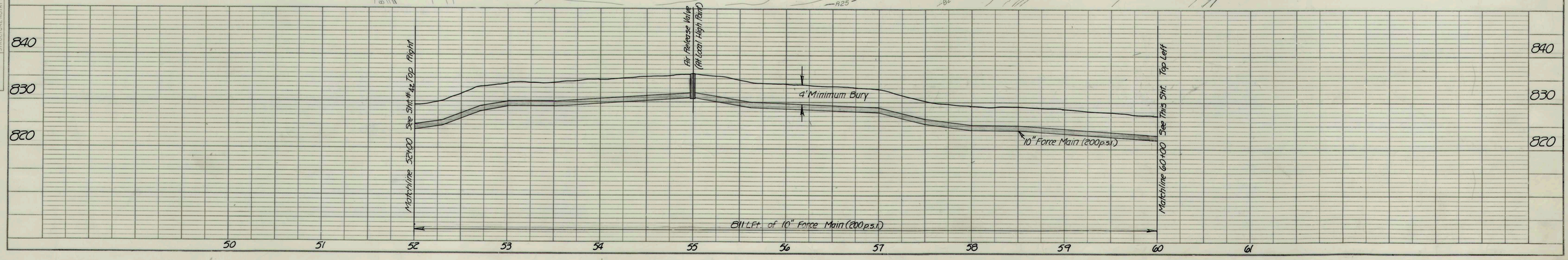












PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — GRADES CHECKED / B. M.'s NOTED / STRUCTURES NOTATIONS CHKD. — BY — DATE

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

FALL CREEK BLVD / TAYLOR ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 41

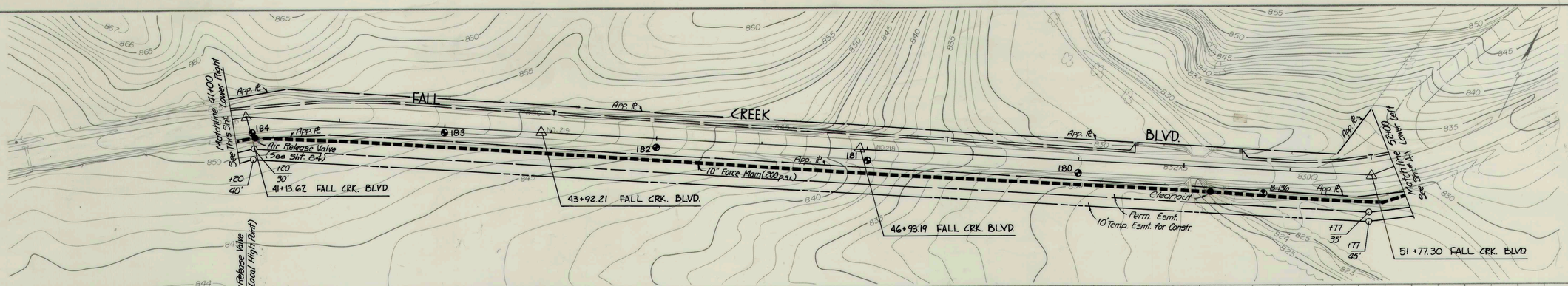
HORIZ. 1"=50' — VERT. 1"=10'

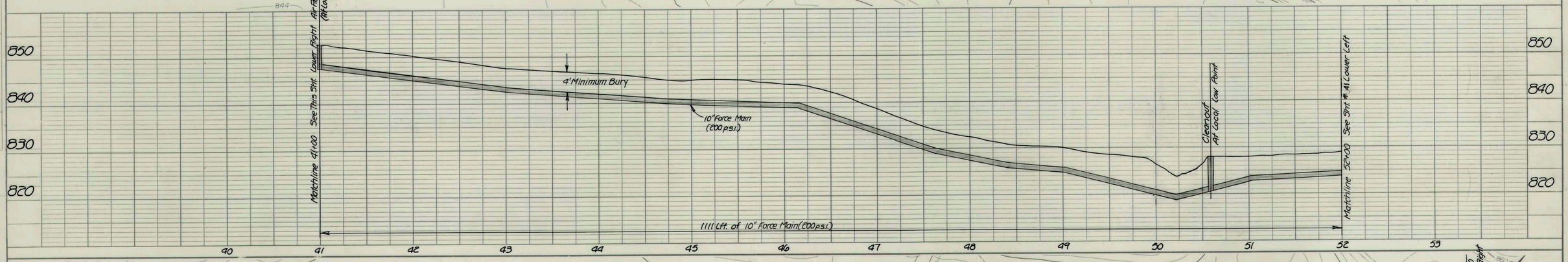
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

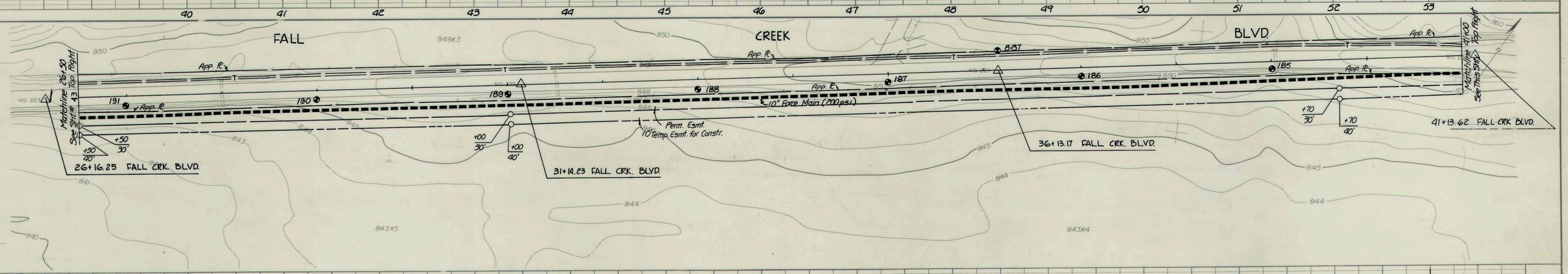
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

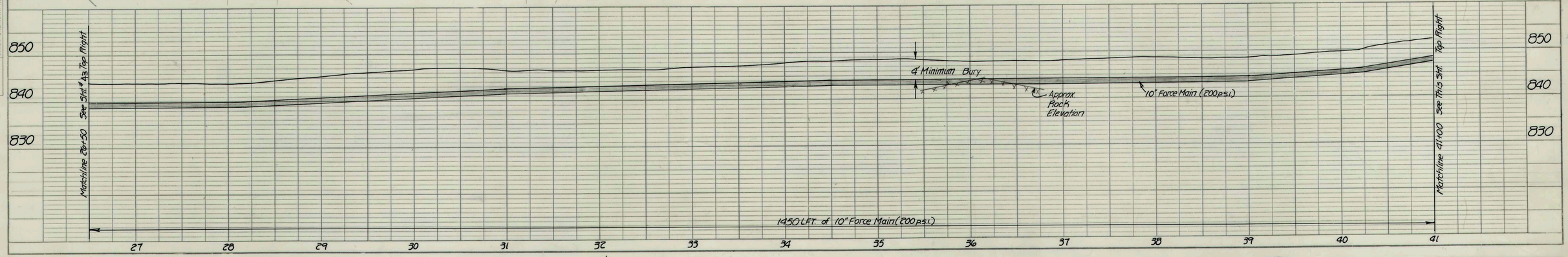
FM-1

PLAN
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY









PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

RECORD DRAWING

ERIC RESKE
REGISTERED
No. 13448
STATE OF INDIANA
PROFESSIONAL ENGINEER

FALL CREEK BLVD.		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 42
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

FM-2

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

Panhandle Eastern Pipeline Gas Lines.
Contractor to Use Extreme Caution in This Area
Lines Are in There Approximate Location.
Contractor Must Verify Depth & Location with
Gas Corp. Before Construction.

FALL CREEK BLVD.

Matchline 12+50 See This Sht. Lower Right

App. ℄ 200 199 198 197 196 195 194 193 192 B-141 App. ℄

Cleanout

Perm. Esmt. 10' Temp. Esmt. for Constr.

10" Force Main (200 p.s.i.)

13+99.00 FALL CRK. BLVD.

18+60.44 FALL CRK. BLVD.

21+21.36 FALL CRK. BLVD.

Matchline 26+50 See Sht. #12 Lower Left

26+16.25 FALL CRK. BLVD.

+50 50' +50 40' +00 45' +00 35' +60 45' +60 35' +50 30' +50 40'

Matchline 12+50 See This Sht. Lower Right

Cleanout (At Local Low Point)

Approx. Location H.P. Gas

4' Minimum Bury

10" Force Main (200 p.s.i.)

1400 LFT. of 10" Force Main (200 p.s.i.)

Matchline 26+50 See Sht. #12 Lower Left

850 840 830

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

LINE "R"

Matchline 51+00 See Sht. #4 Top Right

208 207 206 205 204 203 202

Cleanout

10" Force Main (200 p.s.i.)

Perm. Esmt. 10' Temp. Esmt. for Constr.

53+76.18 LINE "R"

Sta. 10+05 "Fall Crk. Blvd" (20' Rt.) Thrust Block

57+60.69 LINE "R"
10+00.00 FALL CRK. BLVD.

See Valve Right

FALL CREEK BLVD.

B-142

App. ℄

+45 ℄

+30 35' +40 25' +30 35' +50 40' +50 30'

Matchline 12+50 Top Left See This Sht.

Sta. 10+05 (20' Rt.) Thrust Block

201

Perm. Esmt. 10' Temp. Esmt. for Constr.

10" Force Main (200 p.s.i.)

10+00.00 FALL CRK. BLVD.
57+60.69 LINE "R"

LINE "R"

See Valve @ Left

Perm. Esmt. 10' Temp. Esmt. for Constr.

Matchline 51+00 See Sht. #4 Top Right

Cleanout (At Local Low Point)

4' Minimum Bury

10" Force Main (200 p.s.i.)

45° Bend W/ Thrust Block

Approx. Rock El.

Approx. Rock Elevation

645 LFT. of 10" Force Main (200 p.s.i.)

840 830 820

51 52 53 54 55 56 57 58

Matchline 12+50 See This Sht. Top Left

4' Minimum Bury

10" Force Main (200 p.s.i.)

45° Bend W/ Thrust Block

245 LFT. of 10" Force Main (200 p.s.i.)

850 840 830

10 11 12 13

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
PT. OF WAY CHECKED

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
GRADES CHECKED
B. M. NOTED
STRUCTURE NOTATIONS CHKD.

RECORD DRAWING

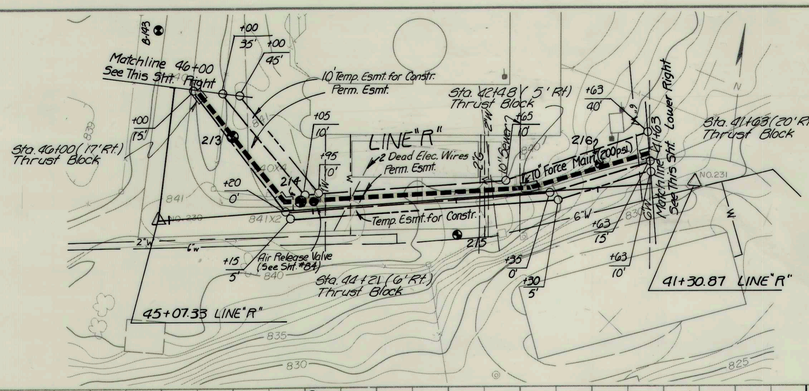
ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

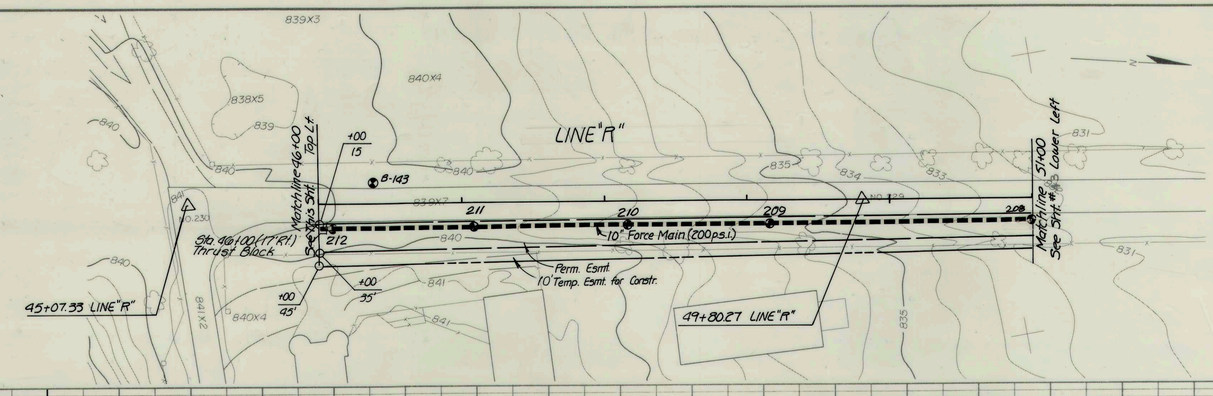
FALL CREEK BLVD./ LINE "R"		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 43
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

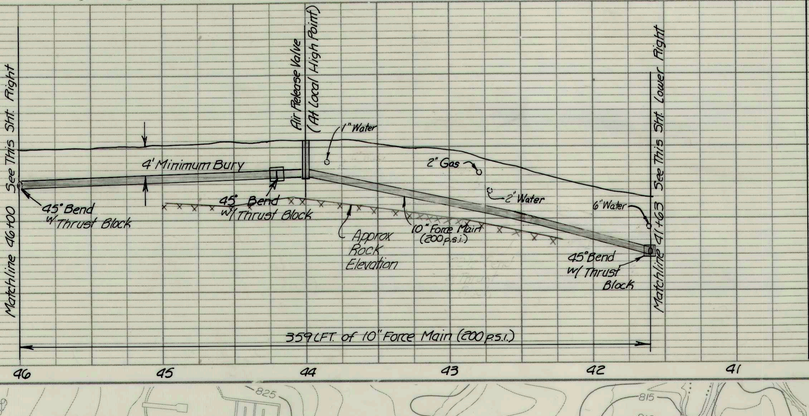
FM-3

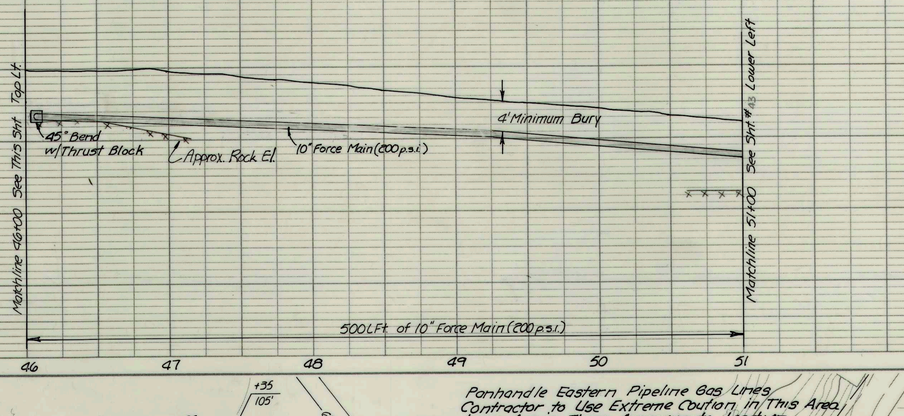
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

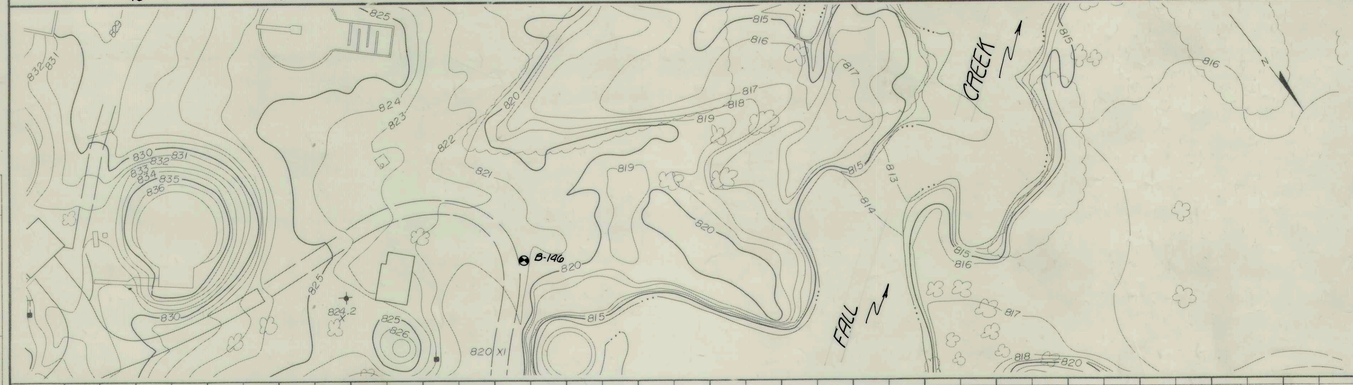
PLAN — SURVEYED · PLOTTED · GRADES CHECKED · AS-BUILT · R/W CHECKED · NOTE BOOK · NO. · BY · DATE











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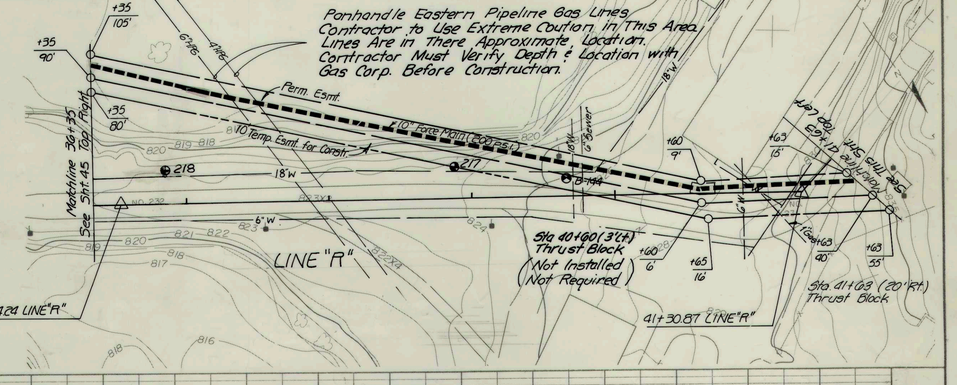
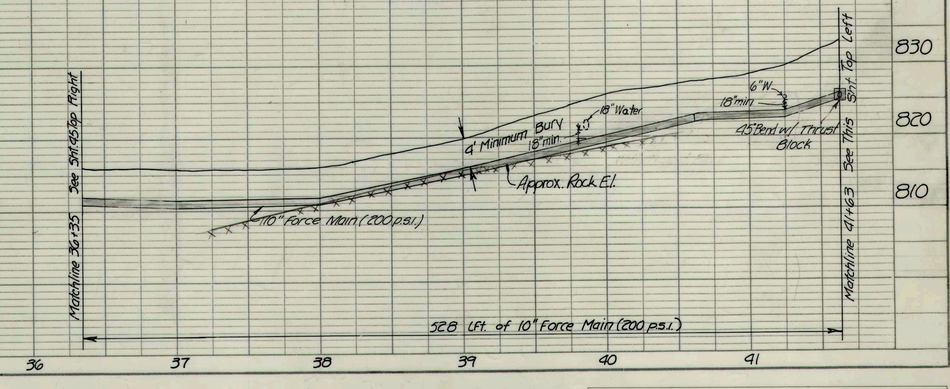


PROFILE — SURVEYED · PLOTTED · GRADES CHECKED · AS-BUILT · R/W CHECKED · NOTE BOOK · NO. · BY · DATE · STRUCTURE NOTATIONS ON KO



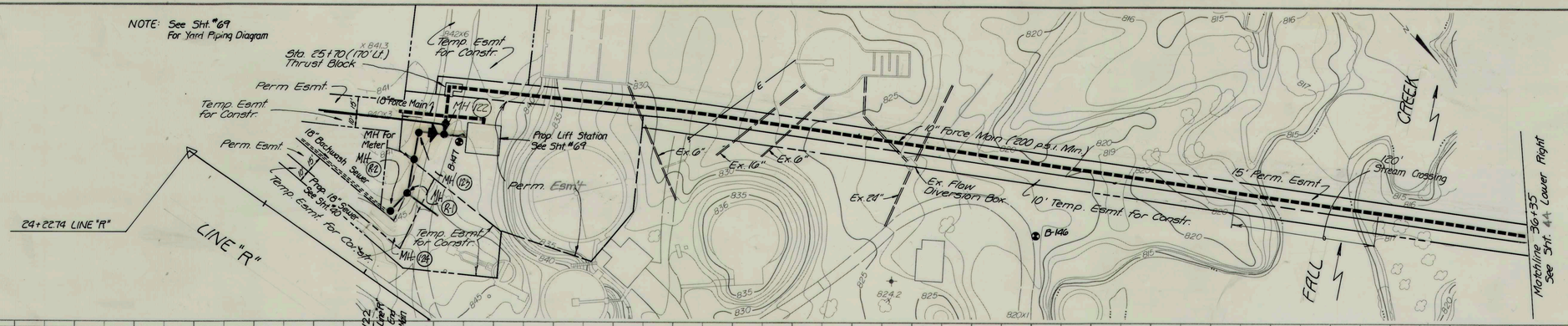
RECORD DRAWING

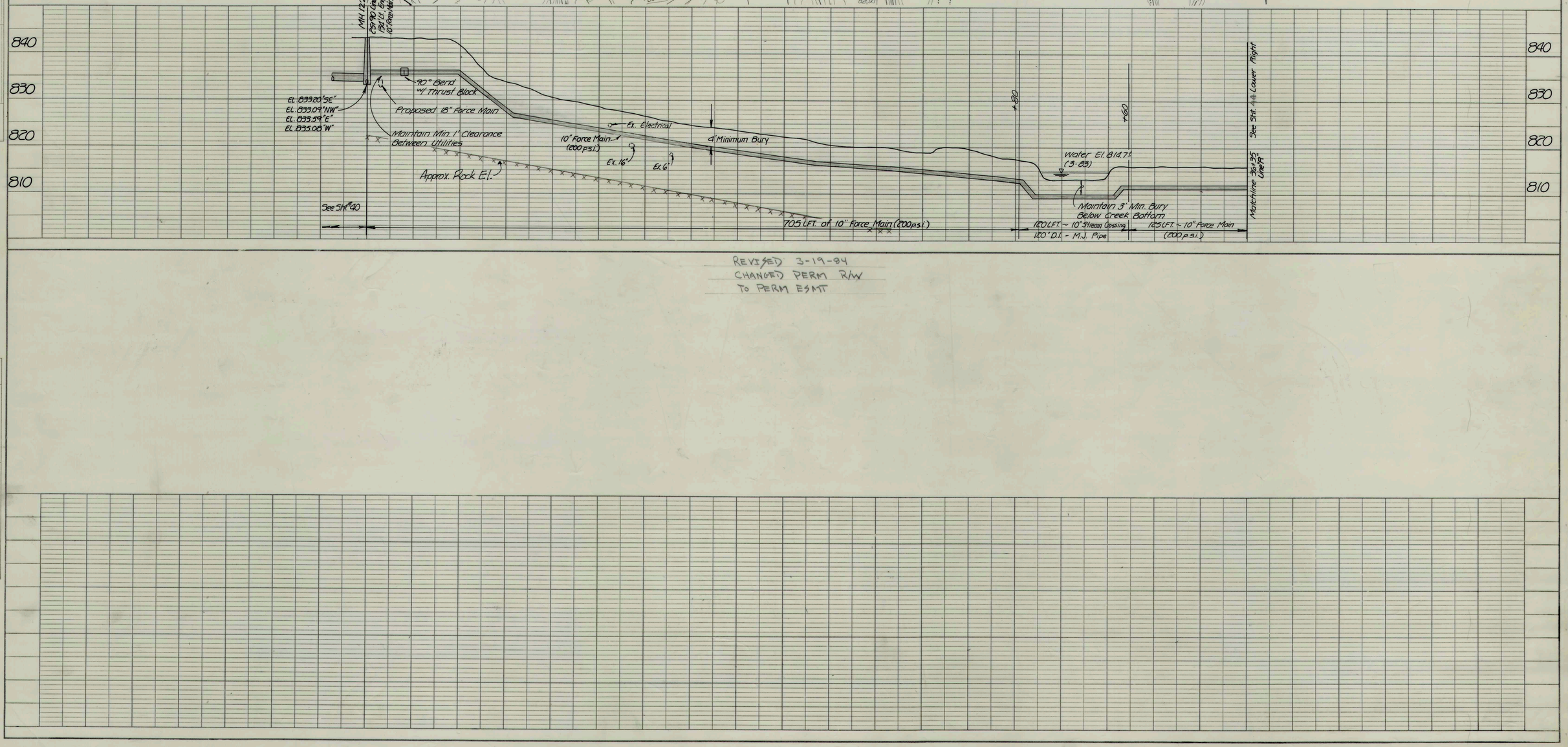
ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

LINE "R"		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 44
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

FM-4

NOTE: See Sht. #69 For Yard Piping Diagram





REVISED 3-19-84
CHANGED PERM R/W
TO PERM ESMT

PLAN
SURVEYED BY
PLOTTED DATE
NOTE BOOK ALIGNMENT CHECKED
NO. RT. OF WAY CHECKED

PROFILE
SURVEYED BY
PLOTTED DATE
NOTE BOOK GRADES CHECKED
B. M.'s NOTED
NO. STRUCTURES NOTATIONS CHKD.

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 3-30-83 STATE OF INDIANA PROFESSIONAL ENGINEER

LINE "R"

FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	45
VERT. 1"=10'		

FM-5

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

TAYLOR STREET
MH 1-36
MH 1-35
264 LF-12" Clay Pipe Slipline (SDR26)
12" Ø "W" 821.64
12" Ø "NE" 821.94
MILL ROAD
544 LF-12" Clay Pipe Slipline (SDR26)
12" Ø "SW & NE" 823.04
MH 1-35A
B-61
12" Ø "SW & NE" 824.91
8" Ø "W" 825.11
STREET
HIGH
MH 1-29A
92 LF-12" Clay Pipe Slipline (SDR26)
12" Ø "SW & NE" 825.31
12" Ø "E" 825.41
MH 1-29
200 LF-12" Clay Pipe Slipline (SDR26)
STATE (S.R. 38)
12" Ø "SW" 826.17
12" Ø "E" 820.17
MH 1-1
Replaced
Ex. 12" Sewer Slipline See View Below Lt.
STREET
Replace MH's 1-36, 1-35, 1-29A, 1-29 & 1-1 (5 Total This View)

FALL CREEK
12" Ø "E & W" 820.92
12" Ø "E & SW" 826.17
MH 1-31
MH 1-32
12" Ø "E & W" 827.55
Temp. Esm't for Constr.
183 LF-12" Clay Pipe Slipline (SDR26)
345 LF-12" Clay Pipe Slipline (SDR26)
MH 1-1
191 LF-12" Clay Pipe Slipline (SDR26)
B-31
Ex. 12" Sewer Slipline See View Above
MILL ROAD
STATE (S.R. 38)
MH 1-14
12" Ø "E & W" 828.74
4" Ø "N" 832.74
10' Temp. Esm't for Constr.
341 LF-12" Clay Pipe Slipline (SDR26)
12" Ø "W" 829.87
12" Ø "N" 829.97
Replace Ex. Sewer See Sht. #51
MH 1-4
NW. STREET
ADAMS STREET
FRANKLIN ST.
WEST STREET
Replace MH's 1-31, 1-32, 1-14 (4 Total This View)

FALL CREEK
Replace Ex. MH
12" Ø "E & W" 831.35
4" Ø "S" 831.85
N 3" Ø "N" 832.25
Temp. Esm't For Constr.
129 LF-12" Clay Pipe Slipline (SDR26)
312 LF-12" Clay Pipe Slipline (SDR26)
SEWER LINE G
MH 1-6
MH 1-5
MH 1-37
MH 1-37A
Ex. 12" Sewer to be Replaced See Sht. #51
Ex. 12" Sewer to be Sliplined See View @ Rt.
Ex. 10' Esm't
Excist. Esm't for Public Utilities
5' Temp. Esm't For Constr.
Ex. 10' Esm't
SEWER LINE E
STREET
12" Ø "S & E" 830.91
8" Ø "NW" 832.04
12" Ø "W & E" 832.44
4" Ø "S" 835.04
4" Ø "N" 832.94
N.W.

12" Ø "E & W" 832.44
4" Ø "S" 835.04
4" Ø "NE" 832.94
Temp. Esm't For Constr.
SEWER LINE G
MH 1-6
MH 2-1
B-33
186 LF-12" Clay Pipe Slipline (SDR26)
Ex. 10' Esm't.
Ex. 12" Sewer to be Sliplined See View @ Lt.
Ex. 12" Sewer Clean-Test-Seal-Test See View @ Rt.
WATER STREET
MAIN STREET
12" Ø "W & N" 833.13
12" Ø "E" 836.83
10' Esm't.
12" Ø "N & W" 839.13
12" Ø "E" 836.83

MAIN STREET
Ex. 12" Sewer To Be Sliplined See View @ Lt.
B-33
MH 2-1
MH 2-18
SEWER LINE H
State R/W (App. R. 7)
213 LF-12" Clay Pipe Clean-Test-Seal-Test
Ex. 10' Esm't.
Perm. Esm't.
12" Ø "S" 833.56
12" Ø "E" 833.76
Ex. 12" Sewer to be Replaced See Sht. #51
WATER STREET
10' Perm. Esm't.
Replace MH's 1-5, 1-37, 1-6, 2-1 & 2-18 (5 Total These Views)

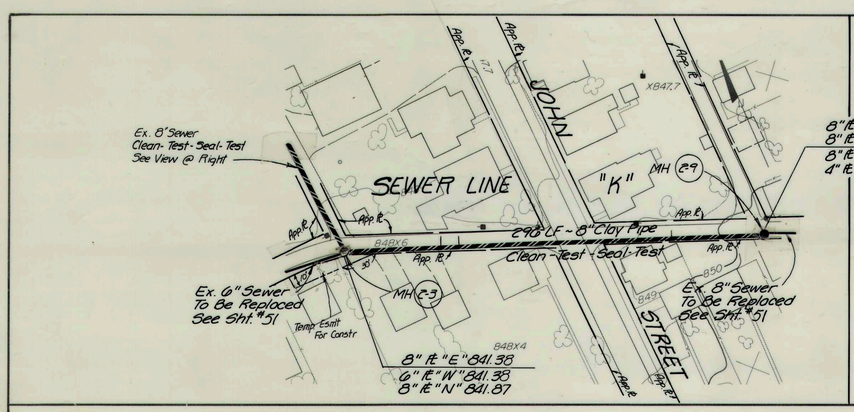
MAIN STREET
8" Ø "E" 843.67
SEWER LINE J
187 LF-8" Clay Pipe Clean-Test-Seal-Test
207 LF-12" Clay Pipe Clean-Test-Seal-Test
MH 2-15
MH 2-14
8" Ø "W" 841.91
12" Ø "E & N" 837.51
PENDLETON AVENUE
MH 2-13
12" Ø "W" 837.70
12" Ø "E" 837.80
8" Ø "N" 838.20
MH 2-2A
Temp. Esm't For Constr.
42 LF-12" Clay Pipe Clean-Test-Seal-Test
173 LF-12" Clay Pipe Clean-Test-Seal-Test
12" Ø "W" 838.52
12" Ø "NE" 838.62
MH 2-2
12" Ø "SW" 838.75
12" Ø "E" 838.85
131 LF-12" Clay Pipe Clean-Test-Seal-Test
MH 2-11
MH 2-10
Ex. 6" Sewer to be Replaced See Sht. 51
10' Temp. Esm't For Constr.
Ex. Manhole to be Replaced
12" Ø "W" 839.09
6" Ø "E" 839.39
8" Ø "N" 841.19
8" Ø "S" 839.29
BROADWAY AVENUE
CAROLINE STREET
Replace MH's 2-13, 2-2A & 2-11 (3 Total This View)

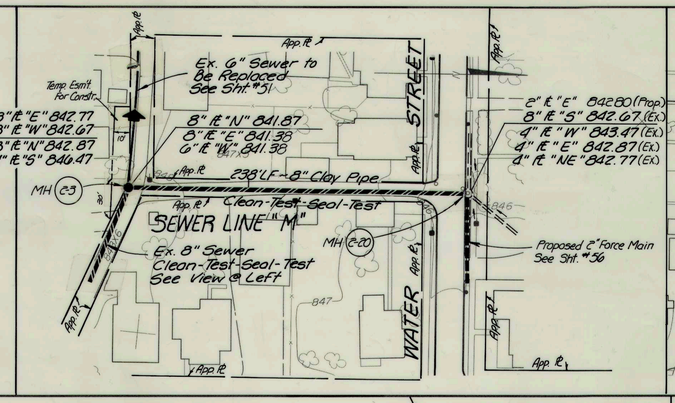
RECORD DRAWING

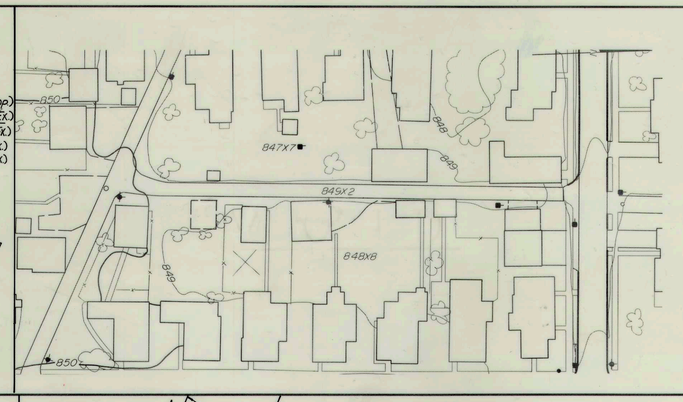
ERIC RESKE — REGISTERED — No. 13342 — STATE OF INDIANA — PROFESSIONAL ENGINEER

MILL ROAD, STATE STREET, SEWER LINE G
SEWER LINE H, SEWER LINE J
FALL CREEK R.W.D. PLAN
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA
SHEET 46
SLIPLINE / CLEAN-TEST-SEAL-TEST

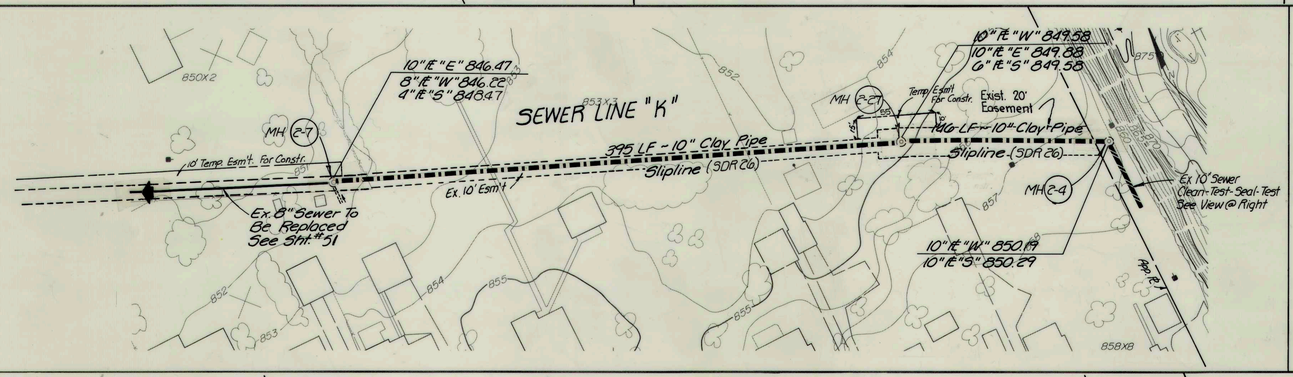
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

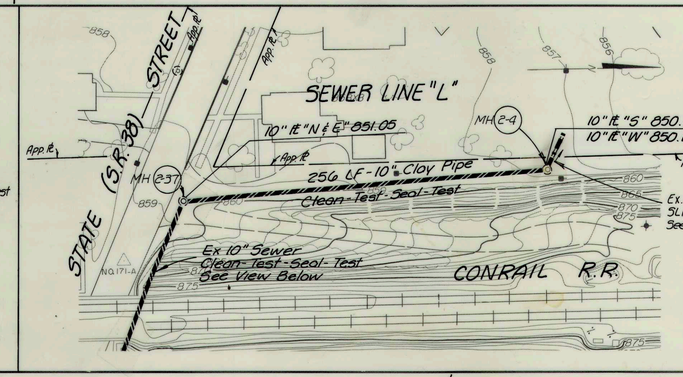






Replace MH's 2-3 & 2-9
(2 Total These Views)

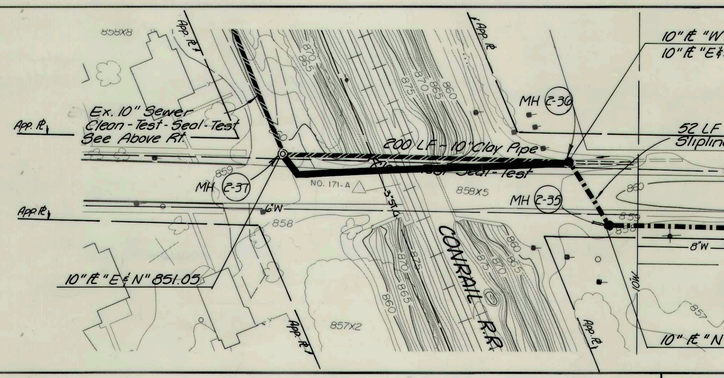


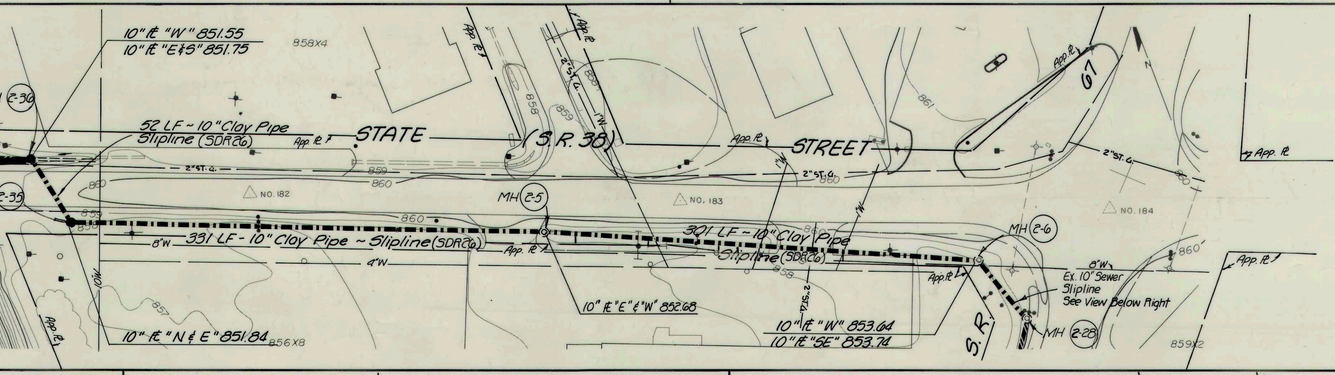


Could Not Grout
Due to Bends in line.

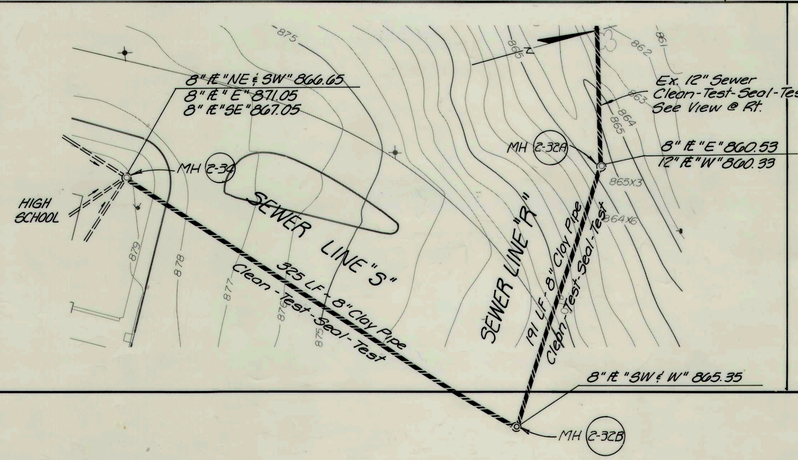
Line televised & No
Signs of Infilteration
Noted.

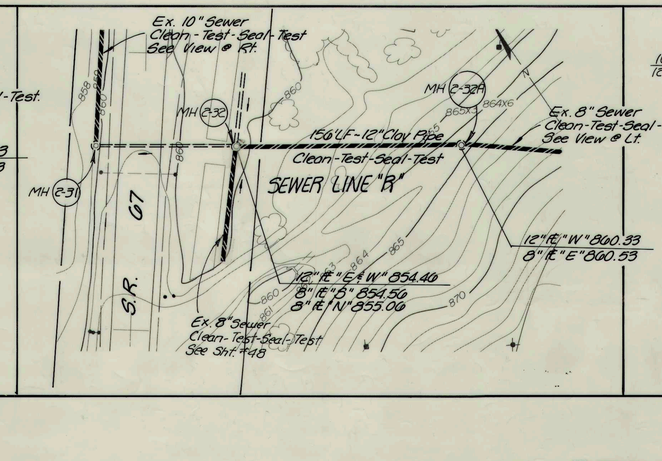
Replace MH's 2-7, 2-27 & 2-4
(3 Total These Views)

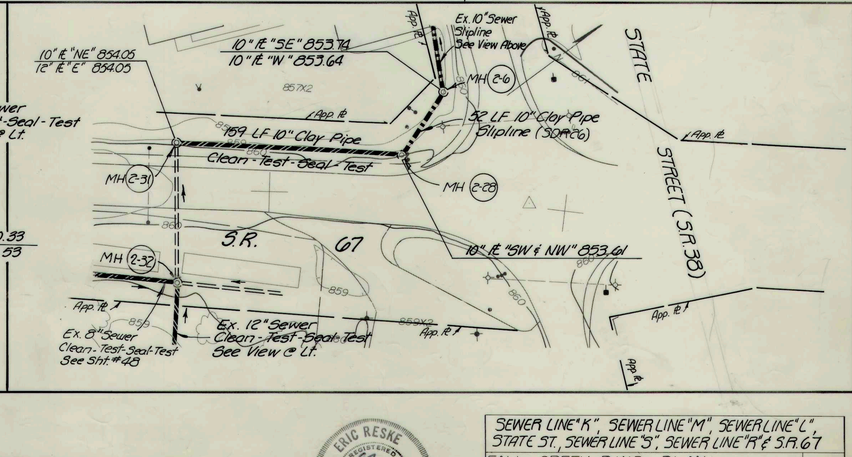




(2 Total This View)







RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 3-30-75

SEWER LINE "K", SEWER LINE "M", SEWER LINE "L", STATE ST., SEWER LINE "S", SEWER LINE "R" & S.R. 67

FALL CREEK R.W.D. PLAN — SHEET 47

HORIZ. 1"=50' | VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

SLIPLINE / CLEAN-TEST-SEAL-TEST

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

MH (2-29)
450'LF ~ 8" Clay Pipe
Clean - Test - Seal - Test
MH (2-30)
App. R.
8"E "N" 870.35
8"E "S" 870.35
8"E "SW" 870.65
8"E "E" 870.45
8"E "N" 864.01
8"E "S" 867.01
(HOOKS)
ANGLE ROAD
(HIGH SCHOOL DRIVEWAY)
SEWER LINE "T" (S.R. 67)
495 LF ~ 8" Clay Pipe
Clean - Test - Seal - Test
MH (2-33)
8"E "N" 856.51
8"E "S" 859.81
STATE ROAD 67
MH (2-31)
See Sht. #47
293 LF ~ 8" Clay Pipe
Clean - Test - Seal - Test
8"E "S" 854.56
8"E "N" 855.06
12"E "E & W" 854.56
MH (2-32)
Ex. 12" Sewer
Clean - Test - Seal - Test
See Sht. #47

VOID

12"E "N" 824.39
12"E "E" 824.49
6"E "S" 828.79
JEFFERSON STREET
MH (4-2)
239 LF ~ 12" Clay Pipe
Slipline (SDR 21)
MH (4-14)
TAYLOR STREET
Ex. 12" Sewer
Slipline
See View Below Left
Ex. 8" Sewer
To Be Replaced
See Sht. 51
12"E "S & W" 823.44 (Ex.)
8"E "E" 833.74 (Ex. & Prop.)
Replace MH's 4-2 & 4-14
(2 Total This View)

JEFFERSON STREET
Ex. 12" Sewer
Slipline
See View Above Right
12"E "E" 824.49
12"E "N" 824.39
6"E "S" 828.79
MH (4-2)
(See Sht 48A)
SEWER LINE "E"
498 LF ~ 12" Clay Pipe
Slipline (SDR 17)
12"E "W" 825.20
12"E "SE" 825.30
6"E "E" 843.20
MH (4-13)
Temp. Esmt. For Constr.
Ex. 12" Sewer
Slipline
See View @ Right
Ex. 10' Esmt.

FRANKLIN STREET
12"E "SE" 825.30
12"E "W" 825.20
6"E "E" 845.20
Temp. Esmt. For Constr.
Ex. 12" Sewer
Slipline
See View @ Left
12"E "S & NW" 827.10
SEWER LINE "E"
239 LF ~ 12" Clay Pipe
Slipline (SDR 17)
Ex. 10' Esmt.
10' Temp. Esmt. For Constr.
MH (4-13)
MH (4-11)
Ex. 12" Sewer
Clean - Test - Seal - Test
See View @ Right

12"E "N" 827.75
12"E "E" 827.95
6"E "SW" 833.35
4"E "NW" 834.25
Line Replaced
F.O. # B-8
See Line "E" for
Details
FRANKLIN STREET
MH (4-3)
285 LF ~ 12" Clay Pipe
Clean - Test - Seal - Test
MH (4-11)
Ex. 12" Sewer
Slipline
See View @ Left
Ex. 12" Sewer
Clean - Test - Seal - Test
See View Below Left
12"E "S & NW" 827.10
LAUREL STREET
TILE STREET
Replace MH - 4-11
(2 Total This View)

FRANKLIN STREET
Ex. 12" Sewer
Clean - Test - Seal - Test
See View Above Right
LAUREL STREET
MH (4-3)
280 LF ~ 12" Concrete Pipe
Clean - Test - Seal - Test
MH (4-9)
421 LF ~ 12" Concrete Pipe
Clean - Test - Seal - Test
12"E "E" 827.95
12"E "N" 827.75
6"E "SW" 833.35
4"E "NW" 834.25
12"E "W & E" 828.24

WEST STREET
Ex. 10" Sewer
Clean - Test - Seal - Test
See This Sht. Right
Ex. 10' Esmt.
MH (4-7)
Ex. 12" Sewer
Clean - Test - Seal - Test
See Sht. #49
Bulkhead Ex. 12"
Overflow Pipe
12"E "W" 829.05
12"E "SE" 829.05
12"E "SW" 829.65
10"E "N" 829.05

Ex. 12" Sewer
Clean - Test - Seal - Test
See View @ Left
Ex. 12" Sewer
Clean - Test - Seal - Test
See Sht. 49
MH (4-7)
Replaced
SEWER LINE "Z"
349 LF ~ 10" Clay Pipe
Clean - Test - Seal - Test
MH (4-6)
12"E "W" 829.05
10"E "N" 829.05
12"E "SE" 829.05
12"E "SW" 829.65
10"E "S" 830.86
8"E "W" 830.91
8"E "E" 830.91
TILE STREET

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

SEWER LINE "T", JEFFERSON ST., SEWER LINE "E" FRANKLIN ST., LAUREL ST., & SEWER LINE "Z"

FALL CREEK R.W.D. PLAN — SHEET 48

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

SLIPLINE / CLEAN-TEST-SEAL-TEST

PHOTOGRAMMETRIC COMPILATION BY ACCU-LAB SURVEYS, INC. SEYMOUR, INDIANA

MAIN STREET

8"ℓE "N & E" 848.66
8"ℓE "S" 848.86

400 LF ~ 8" Clay Pipe
Clean-Test-Seal-Test

MH 6-23

6" Sewer

MH 6-24

175 LF ~ 8" Clay Pipe
Clean-Test-Seal-Test

MH 6-25

120 LF ~ 8" Clay Pipe
Clean-Test-Seal-Test

MH 5-26

120 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

MH 5-23

8"ℓE "N & S" 837.63

8"ℓE "N & S" 833.68

12"ℓE "N" 833.34
12"ℓE "E" 833.44
8"ℓE "S" 833.44

24" Storm Sewer

Ex. 12" Sewer
Clean-Test-Seal-Test
See View @ Right

Ex. 12" Sewer
Clean-Test-Seal-Test
See View Below

MADISON AVENUE

12"ℓE "S" 833.19
12"ℓE "W" 832.99
16"ℓE "N" 833.89
6"ℓE "E" 833.89

App. ℓ

Ex. 10" Sewer
Clean-Test-Seal-Test
See Sht. #48

12"ℓE "E & NW" 832.07

MH 4-T

Ex. 10' Esmt.

15' Temp. Esmt. for Constr.

159 LF ~ 12" Conc. Pipe
Clean-Test-Seal-Test

Ex. 12" Sewer
Clean-Test-Seal-Test
See Sht. #48

SEWER LINE "C"

15' Temp. Esmt. for Constr.

15' Perm. Esmt.

15' Temp. Esmt. for Constr.

REVISED 3-15-84
CHANGED ESMT AROUND
36" PIPE

MAIN STREET

MADISON AVENUE

85 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

MH 5-29

MH 4-4

Ex. 24" Storm Sewer

12"ℓE "W" 832.99
12"ℓE "S" 833.19
16"ℓE "N" 833.89
6"ℓE "E" 833.89

Ex. 12" Sewer
Clean-Test-Seal-Test
See View @ Left

12"ℓE "E" 833.44
12"ℓE "N" 833.34
8"ℓE "S" 833.44

Ex. 12" Sewer
Clean-Test-Seal-Test
See View Above

MH 5-22

MAIN STREET

SEWER LINE "A"

250 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

MH 5-21

MH 5-21A

Ex. 8" Sewer
Clean-Test-Seal-Test
See View Above

8"ℓE "S" 834.50 (Prop.)
12"ℓE "W & E" 833.90 (Ex.)

Prop. 8" Sewer

Ex. 8" Sewer
To Be Replaced
See Sht. #52

24" Storm Sewer

PENDLETON AVE.

12"ℓE "N & W" 837.20
12"ℓE "E" 838.00

225 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

Ex. 10' Esmt.

18" Storm Sewer

12"ℓE "E" 834.12
12"ℓE "W" 834.02
8"ℓE "S" 836.32 (Ex.) Bulkhead

Ex. 12" Sewer
Clean-Test-Seal-Test
See View Below Left

MH 5-18

159 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

Ex. 10' Esmt.

12"ℓE "W" 840.52
10"ℓE "E" 842.52
6"ℓE "S" 840.72

CENTER STREET

MADISON AVENUE

MH 5-20

10"ℓE "W" 843.70

98 LF ~ 10" Clay Pipe
Clean-Test-Seal-Test

Temp. Esmt. for Constr.

MH 5-19

BROADWAY AVE.

VOID

12"ℓE "N & W" 837.20
12"ℓE "E" 838.00

Ex. 12" Sewer
Clean-Test-Seal-Test
See View Above Left

SEWER LINE "B"

231 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

MH 5-18

Ex. 10' Esmt.

MH 5-1

MADISON AVE.

12"ℓE "E & S" 839.18
6"ℓE "NW" 841.98

Ex. 12" Sewer
Slipline
See View @ Right

CENTER STREET

SPRING STREET

Ex. 12" Sewer
Clean-Test-Seal-Test
See View @ Left

12"ℓE "E & S" 839.18
6"ℓE "NW" 841.98

Ex. 12" Sewer
Slipline
See View @ Right

SPRING STREET

MH 5-1

MH 5-17

147 LF ~ 12" Clay Pipe
Slipline (SDR 26)

249 LF ~ 12" Clay Pipe
Slipline (SDR 26)

MH 5-16

MADISON AVE.

12"ℓE "E & W" 840.85
8"ℓE "N" 841.25

BROADWAY AVENUE

12"ℓE "N & W" 842.96
12"ℓE "S" 843.36
6"ℓE "E" 844.06

VOID

Ex. 12" Sewer
Clean-Test-Seal-Test
See View @ Right

12"ℓE "N & S" 845.11
8"ℓE "E" 845.66

Replace MH's 5-1, 5-17, 5-15 & 5-2
(9 Total These Views)

Ex. 12" Sewer
Slipline
See View @ Left

SPRING ST.

BROADWAY AVE.

MH 5-2

MH 5-15

72 LF ~ 12" Clay Pipe
Clean-Test-Seal-Test

135 LF ~ 12" Clay Pipe
Slipline (SDR 26)

MH 5-16

12"ℓE "E & S" 845.57

12"ℓE "N & W" 842.96
12"ℓE "S" 843.36
6"ℓE "E" 844.06

WALNUT STREET

Ex. 12" Sewer
Slipline
See View Below Left

12"ℓE "E & S" 845.57

WALNUT

211 LF ~ 12" Clay Pipe
Slipline (SDR 26)

MH 5-2

MH 5-14

Ex. 12" Sewer
Slipline
See View Above Right

BROADWAY AVENUE

Type 7 Casting

12"ℓE "E" 847.15 (Ex. & Prop.)
12"ℓE "W" 847.15 (Ex.)

Ex. 8" Sewer
To Be Replaced
See Sht. #53

174 LF ~ 10" Clay Pipe
Slipline (SDR 26)

MH 5-12

MH 5-11

10"ℓE "E" 849.99 (Ex.)
12"ℓE "W" 849.99 (Ex.) To Be Replaced
8"ℓE "N" 850.29 (Ex.) To Be Replaced
6"ℓE "S" 850.39 (Ex.)

Ex. 12" Sewer
To Be Replaced
See Sht. #65

PEARL STREET

EAST STREET

Ex. 8" Sewer
To Be Replaced
See Sht. #52

VOID

8"ℓE "N" 850.71 (Ex.) To Be Removed
8"ℓE "S" 851.71 (Ex.)
10"ℓE "W" 850.51 (Ex.)
6"ℓE "NE" 851.21 (Ex.)
6"ℓE "E" 851.61 (Ex.)
6"ℓE "S" 852.41 (Ex.)
10"ℓE "N" 850.51 (Prop.)

EAST STREET

(Jr. High School)

SEWER LINE "D"

193.5 LF ~ 8" Clay Pipe
Slipline (SDR 26)

MH 5-3

MH 5-5

8"ℓE "SW" 852.12
6"ℓE "N" 852.12

Ex. 8" Sewer
To Be Replaced
See Sht. #52

8"ℓE "NE" 851.43 (Ex.)
8"ℓE "S" 851.47 (Ex.) To Be Removed
10"ℓE "S" 851.47 (Prop.)

Replace MH's 5-14, 5-12, 5-11 & 5-5 (9 Total These Views)

RECORD DRAWING

ERIC RESKE
REGISTERED
No. 13442
STATE OF INDIANA
PROFESSIONAL ENGINEER

MAIN ST., SEWER LINE "C", SEWER LINE "A", WALNUT ST., SPRING ST., BROADWAY AVE., & SEWER LINE "B & D"

FALL CREEK R.W.D. PLAN

SHEET 49

HORIZ. 1"=50'
VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

SLIPLINE / CLEAN-TEST-SEAL-TEST

PHOTOGRAMMETRIC COMPILATION BY AERIAL SURVEYS, INC. SEYMOUR, INDIANA

6" water line running thru Ex. 8" Sewer. Used Reverse Set-Up to Grout

SEWER LINE "N"

MAIN STREET

PENDLETON AVENUE

BROADWAY AVENUE

MACES GROCERY

MH 3-19

MH 3-1

MH 3-2

App. lf

551 L.F.~ 8" Clay Pipe
Clean-Test-Seal-Test

167 L.F.~ 8" Clay Pipe
Clean-Test-Seal-Test

10" lf "E" 844.10
4" lf "NW" 847.40

10" lf "W & E" 842.00
8" lf "S" 842.00

Ex. 8" Sewer
Clean-Test-Seal-Test
See View @ Right

8" lf "W" 841.20
12" lf "E & N" 841.10

* Unable to Grout Due to Offset Joints

SEWER LINE "O"

HIGH STREET

MACES GROCERY

MH 3-1C

MH 3-1

220 L.F.-8" Clay Pipe
Clean-Test-Seal-Test

Ex. 8" Sewer
Clean-Test-Seal-Test
See View @ Left

8" lf "S" 842.00
10" lf "W & E" 842.00

B-32

VOID

CAROLINE STREET

HIGH STREET

MH 3-3

MH 3-2B

196 L.F.-8" Clay
Clean-Test-Seal-Test

Ex. 12" Sewer
Clean-Test-Seal-Test
See View Below Lt.

8" lf "S" 843.90
12" lf "E" 843.30
12" lf "W" 843.10

SEWER LINE "N"

CAROLINE STREET

JOHN STREET

MH 3-2B

MH 3-2C

328 L.F.~ 12" Concrete Pipe
Clean-Test-Seal-Test

Ex. 8" Sewer
Clean-Test-Seal-Test
See View Above Rt.

12" lf "E" 843.30
12" lf "W" 843.10
8" lf "S" 843.90

12" lf "W" 844.15
12" lf "S" 844.25
4" lf "E" 848.55

8" lf "E" 845.04
8" lf "S" 845.84
12" lf "N" 844.94

Ex. 8" Sewer
Clean-Test-Seal-Test
See View @ Right

Ex. 12" Sewer
Clean-Test-Seal-Test
See View @ Left

SEWER LINE "P"

JOHN STREET

EAST STREET

MH 3-5

MH 3-7

221 L.F.~ 8" Clay Pipe
Clean-Test-Seal-Test

8" lf "E" 845.04
8" lf "S" 845.84
12" lf "N" 844.94

8" lf "W" 846.49
8" lf "E" 846.59

Ex. 8" Sewer
To Be Replaced
See Sht. #53
& Lower Lt.

Ex. 10' Esmt.

Replace MH 3-5
(1 Total These Views)

STATE (S.R. 38)

EAST STREET

CONRAIL RAILROAD

MH 3-5

MH 3-7A

MH 3-8

MH 3-7

Ex. 8" Sewer
Clean-Test-Seal-Test
See View Above Rt.

10' Temp. Esmt. For Constr.

Ex. 10' Esmt.

136'

Ex. 8" Sewer
To Be Replaced
See Sht. #53

8" lf "W & E" 849.61
8" lf "S" 849.71

Temp. Esmt. for Constr.

492 L.F.-8" Clay Pipe
Clean-Test-Seal-Test

8" lf "W" 853.08
8" lf "N" 853.58
6" lf "E" 853.08

Replace MH's 3-7A & 3-7
(2 Total This View)

RECORD DRAWING

ERIC RESKE REGISTERED ENGINEER No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

SEWER LINE "N", SEWER LINE "O", CAROLINE ST., & SEWER LINE "P"

FALL CREEK R.W.D. PLAN

HORIZ. 1"=50'
VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

SHEET 50

CLEAN-TEST-SEAL-TEST

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYS, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NOTATIONS CHECKED — NOTE BOOK — NO. — BY — DATE

STATE (SR. 30) STREET — WEST STREET — MAIN STREET — WATER ST — 112 WEST — BROADWAY AVENUE — CAROLINA STREET — EAST STREET — McCOY DRIVE — JEFFERSON STREET — ADAMS STREET — TAYLOR STREET — FRANKLIN STREET

Existing 12" Sewer Slipline, See Sht. No. 96 — Temp. Esmt. for Const. — Ex. 10' Easement — MH (1-5) (Replace) — MH (1-4) (Replace) — SEWER LINE "F" — 10' Temp. Esmt. for Constr. — 61+10.13 State St. — Existing 12" Sewer Slipline, See Sht. No. 96 — 5+00.00 "NW St." / 61+19.19 State St. — 7+37.72 "N.W St."

SEWER LINE "I" — MH (2-18) (Replace) — 10' Perm. Esmt. — Ex. 12" Sewer Clean-Test-Seal-Test See Sht. #96 — 7+04.92, 112 W. WATER St. — Prop. 16" Force Main (200 psi.) See Sht. #57 — MH (2-17)

SEWER — LINE "J" — MH (2-11) (Replace) — MH (2-10) (Replace) — MH (2-3A) — 10' Temp. Esmt. for Const. — Ex. 12" Sewer Clean-Test-Seal-Test See Sht. #46 — Ex. 8" Sewer Clean-Test-Seal-Test See Sht. #47 — MH (2-3) (Replace)

Remove Existing 12" Sewer & Replace w/ New 12" Sewer (Did Not Remove) — Ex. MH 1-4 — 316.03 / 76 "State St." — 25' Lt. — Ex. MH 1-5 — 81.2 25" / 132.5' Lt. — Approx Rock El. — Ex. 8" Overflow — (Exist.) El. 830.21 "W." (Prop.) El. 830.16 "N." — El. 830.90 "S & NE" El. 830.89 "NW" — 239'-12" @ 0.29% Slipline

Remove Existing 12" Sewer & Replace w/ New 12" Sewer — Ex. MH 2-18 — 316.69.5 / 112 W. Water St. — 27.30 Lt. — Ex. MH 2-17 — 316.04.91 / 112 W. Water Street — 33.5' Rt. — El. 833.90 "E" (Exist.) El. 833.87 "S" (Prop.) — Approx. Rock El. — El. 839.87 "W." (Prop. & Exist.) El. 834.79 "S" (Exist.) El. 834.77 "N" (Prop.) — 215'-12" @ 0.48%

Ex. MH 2-11 — Ex. MH 2-10 — Ex. MH 2-3 — Remove & Delete MH # 2-10 — El. 839.23 "E" (Ex. & Prop.) El. 839.89 "W" (Ex.) El. 841.16 "N" (Ex.) El. 839.31 "S" (Ex.) — Approx Rock El. — El. 840.03 "E & W" (Ex. & Prop.) El. 843.63 "NW" (Ex.) El. 841.13 "NE" (Ex.) — El. 841.20 "W" (Ex. & Prop.) El. 841.20 "E" (Ex.) El. 841.80 "N" (Ex.) — TEST-SEAL-TEST EXISTING SEWER — FIELD ORDER # B-14 — 83'-8" @ 0.77% — 293'-8" @ 0.40%

McCOY DRIVE — MH (2-9) — MH (2-8) (Replace) — MH (2-8A) — MH (2-7A) — 200' 10' Temp. Esmt. for Const. — Ex. 10" Sewer to be Sliplined See Sht. #47 — 100 LF ~ 8" Clay Pipes Slipline — SEWER LINE "K" — MH (2-7) (Replace) — Ex. 8" Sewer Clean-Test-Seal-Test See Sht. #47 — 40' — Ex. 10 Easement

10 of 39.98 Taylor St. — 121 09.33 Taylor St. — 131 82.73 Taylor St. — 171 39.90 Taylor St. — MH (4-14) (Replace) — MH (4-13) (Replace) — MH (4-16) (Replace) — Existing 12" Sewer Slipline, See Sht. 48

Remove Existing 8" Sewer & Replace w/ New 8" Sewer, Except Between Sta. 3+12 & 4+12 — Ex. MH 2-9 — 316.20 / 94 "State St." — 25' Lt. — 150 D/U — Ex. MH 2-8 — 316.82 / 89.5 "State St." — 236.5' Lt. — Sta. 1+67 — MH 2-8A Sta. 3+12 — MH 2-7A Sta. 4+12 — Ex. MH 2-7 — 316.87 / 40.4 "State St." — 239.2' Lt. — Sta. 6+00 — Approx. Rock Elev. — El. 842.50 "W" (Exist.) El. 842.80 "E" (Prop. & Ex.) El. 842.80 "N" (Exist.) El. 840.30 "S" (Exist.) — El. 843.35 "W" (Prop. & Ex.) El. 843.91 "E" (Prop. & Ex.) El. 843.96 "N" (Exist.) — El. 844.68 "E" (Ex.) El. 844.68 "W" (Ex. & Prop.) El. 844.98 "E" (Prop.) — El. 845.21 "W" (Ex.) El. 845.54 "W" (Prop.) El. 845.54 "E" (Prop.) — El. 846.22 "W" (Ex.) El. 846.22 "W" (Prop.) El. 846.47 "E" (Ex.) El. 848.97 "S" (Ex.) — 107'-8" @ 0.45% — 195'-8" @ 0.53% Slipline — 100 LF ~ 8" Sewer Slipline — 194'-8" @ 0.35% Slipline

Ex. MH 4-14 — 183.7 / 51 Replace w/ Drop MH — Ex. MH 4-15 — 182.55 Rt. / 10.5' W. Water — Ex. MH 4-16 — 163.8 Rt. — Remove Existing 8" Sewer & Replace w/ New 8" Sewer — El. 823.92 "E" (Ex. & Prop.) — El. 823.82 "S" El. 823.72 "W" (Exist.) — El. 842.35 "E" (Exist.) El. 842.55 "W" — El. 845.58 "W" (Ex. & Prop.) El. 848.44 "N" (Exist.) El. 848.34 "SE" (Exist.) — 342'-8" @ 5.45% — 281'-8" @ 1.13%

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

SEWER LINES "F, I, J & K" / TAYLOR ST.

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 51

HORIZ. 1"=50' — VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

PROGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED: PLOTTED: LINES CHECKED: GRADES CHECKED: STRUCTURE NOTATIONS CHKD: BY: DATE: NOTE BOOK NO.: RT. OF WAY CHECKED:

PROFILE — SURVEYED: PLOTTED: LINES CHECKED: GRADES CHECKED: STRUCTURE NOTATIONS CHKD: BY: DATE: NOTE BOOK NO.:

30+53.45 PENDLETON AVE.

55+38.28 PENDLETON AVE.

PENDLETON AVENUE

MOORE AVE

MH (6-8) Bulkhead Ex. 8" Sewer "N"

Remove Ex. Conc. Divider in MH (6-8) & Bulkhead Ex. 8" Sanitary Sewer "N&S"

MH (6-7)

MH (6-6)

Remove & Replace Ex. MH (6-6) over Ex. Storm Sewer Tie Ex. 6" Sanitary Sewer "SE" To New MH (6-6A) w/10 LFT.~6" Pipe. Bulkhead Ex. Sanitary Sewer "N&S"

Ex. 8" Storm Sewer

Ex. 8" Sanitary Sewer

MH (5-21) Bulkhead Ex. 8" Sewer "S"

Construct New MH (5-21) over Ex. 12" Sewer

Ex. 12" Sewer Clean-Test-Seal-Test See Sht. "49"

Ex. 24" Storm Sewer

Ex. 10' Easement

Ex. 12" Sewer Clean-Test-Seal-Test See Sht. "49"

Inlet, Type "J-10" Req'd El. 852.72 "E" El. 852.47 "N"

WALNUT STREET

Ex. 10" Sewer Slipline See Sht. "65"

Remove exist. Inlet # Replace "H" Inlet, Type "J-10" El. 850.00 "E" Bulkhead pipe "W"

P.I. 6+59.79 Δ = 0°44'21" ct. See Sht. 65

26'-12" @ 1.00%

Inlet, Type "J-10" Req'd El. 853.00 "W"

MH (5-11) (Replace)

10' Temp. Esmt. for Constr. M.H., Type C-4 Req'd

M.H., Type C-4 Req'd

5+00.00 EAST ST. 7+82.94 WALNUT ST.

EAST STREET

Exist. Inlet Replaced

NOTE: Remove Ex. 8" Sanitary Sewer & Replace w/10" Dia. Pipe. Remove Ex. 10" & 12" Storm Sewer from MH (5-1) to MH (5-3). Replace in Location as Shown.

MH (5-3)

MH (5-2)

MH (5-1)

20'-12" @ 1.00%

(Asphalt)

MH (5-3B) (Replace) (Eliminated)

MH (5-4) (Replace)

MH (5-3) (Replace)

Remove exist. Inlet # Replace "I" Inlet, Type "J-10" El. 850.00 "W" Bulkhead Pipe "E"

Remove exist. Inlet # Replace "I" Inlet, Type "A-2" El. 851.97 "N" Exist "10" El. 847.75 "W" (Stone) Bulkhead pipe "S"

5'-15"-24" @ 1.00%

Ex. 10" Storm Sewer

Ex. 8" Prop. Sanitary Sewer

Ex. 8" Sewer Slipline See Sht. "49"

M.H., Type "C-4" Rqd'd

ELEMENTARY SCHOOL

860 / 850 / 840 / 830

Ex. MH (6-8) +57.17 FH

MH (6-8B) +53.64 FH

Ex. MH (6-8A) +56.14 FH

Ex. MH (6-6) +55.14 FH

MH (6-6A) +55.64 FH

MH (5-21B) +62.64 FH

Ex. MH (5-21) +62.14 FH

El. 850.37 "S" (Ex.)
El. 850.37 "W" (Ex.)
El. 850.37 "N" (Ex.)
Bulkhead
El. 850.37 "NW" (Prop.)

El. 849.84 "E"
El. 848.03 "N"
El. 849.01 "E"

El. 849.62 "S"
El. 849.06 "E"
El. 848.04 "N"

Ex. 8" Storm & Sanitary Sewers are Parallel & At Approx. The Same Elevations

El. 843.07 "W"
El. 843.19 "S"
El. 843.40 "SE"

Ex. Storm Sewer

Ex. Sanitary Sewer

El. 833.68 "S" (Prop.)
El. 833.92 "W" (Ex.)
El. 833.90 "E" (Ex.)

20'-8" @ 0.60%

270'-8" @ 1.80%

326'-8" @

50 51 52 53 54 55 56 57

Ex. MH (5-1) +92.23 FH

Ex. MH (5-2) +116.23 FH

Ex. MH (5-3) +205.21 FH

Ex. 10" Storm Sewer

El. 850.71 "N" (Ex.)
El. 850.21 "W" (Ex.)
El. 851.21 "NE" (Ex.)
El. 851.71 "S" (Ex.)
El. 852.41 "S" (Ex.)
El. 851.61 "E" (Ex.)
El. 850.98 "N" (Prop.)

El. 851.26 "S" (Ex. & Prop.)
El. 851.73 "NE"

El. 851.08 "NE S" (Ex. & Prop.)
105'-10" @ 0.27%

Approx. Rock Elevation

423'-10" @ 0.23%

Rock Elevation

Proposed Storm Sewer Plotted 20' Below Datum

MH S-3 +46.57 FH

MH S-2 +46.57 FH

MH S-2A +43.58 FH

MH S-1 +30.54 FH

Ex. 10" El. 848.33 "NE" El. 845.83 "N" El. 845.83 "SW"

136'-24" @ 0.15%

218'-24" @

130'-24" @

El. 848.90 "W" Ex. 10" El. 846.90 "E" El. 846.60 "S"

5 6 7 8 9 10

El. 848.24 "E" El. 842.36 "N" El. 846.04 "S"

VOID

VOID

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

PENDLETON AVE/EAST STREET

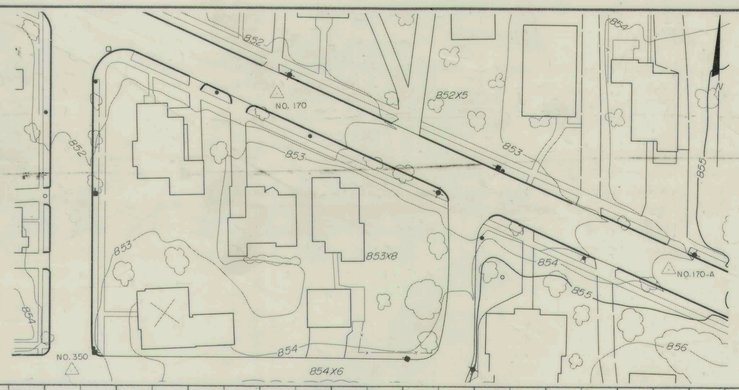
FALL CREEK R.W.D. PLAN & PROFILE — SHEET 52

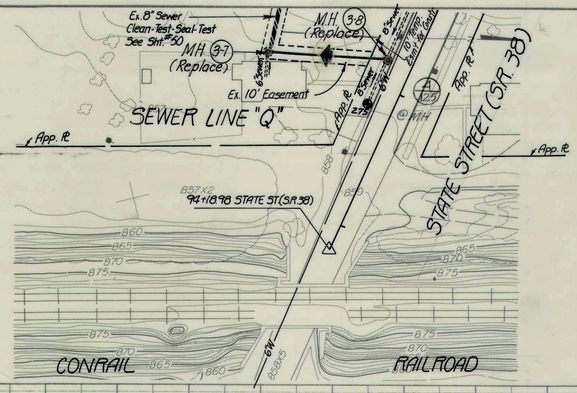
HORIZ. 1"=50' VERT. 1"=10'

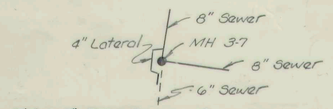
BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA

PHOTOGRAPHIC COMPLIANCE BY MICRO PHOTO, INC. CINCINNATI, OHIO

4

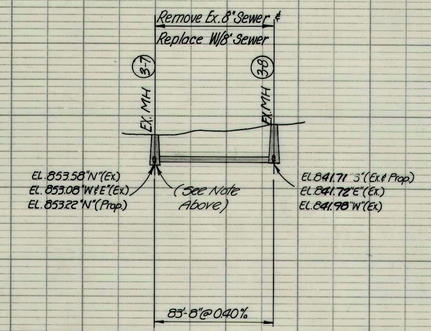


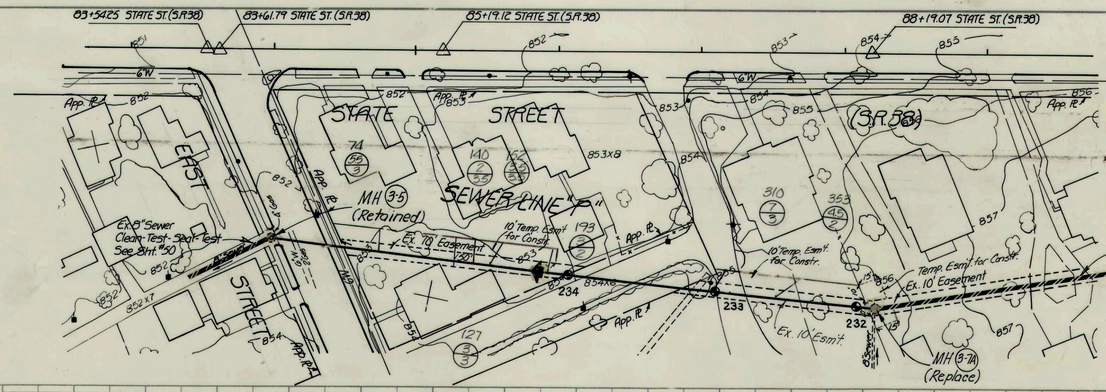


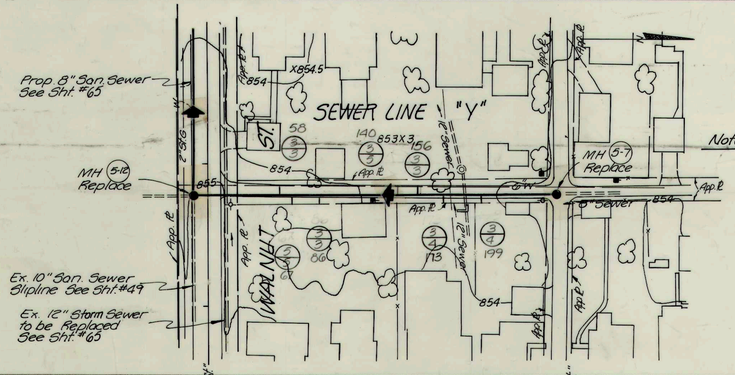


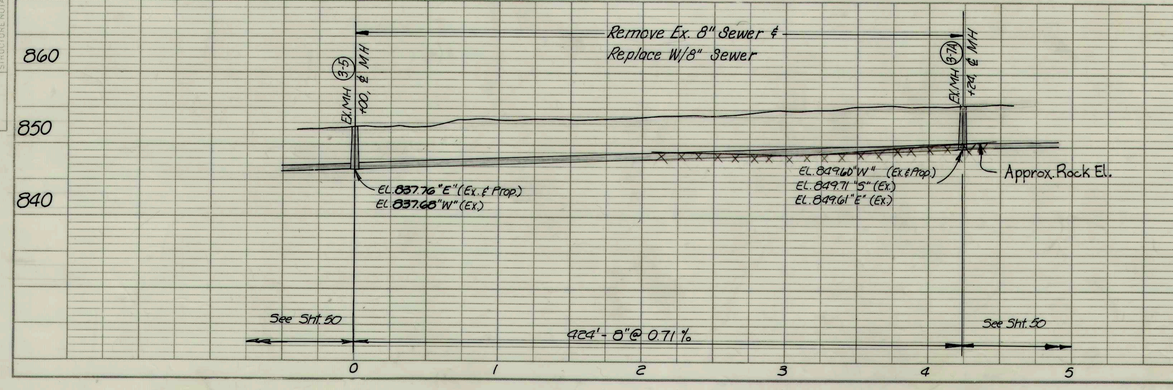
Note: 4" PVC Service Connection Installed around MH 3-7

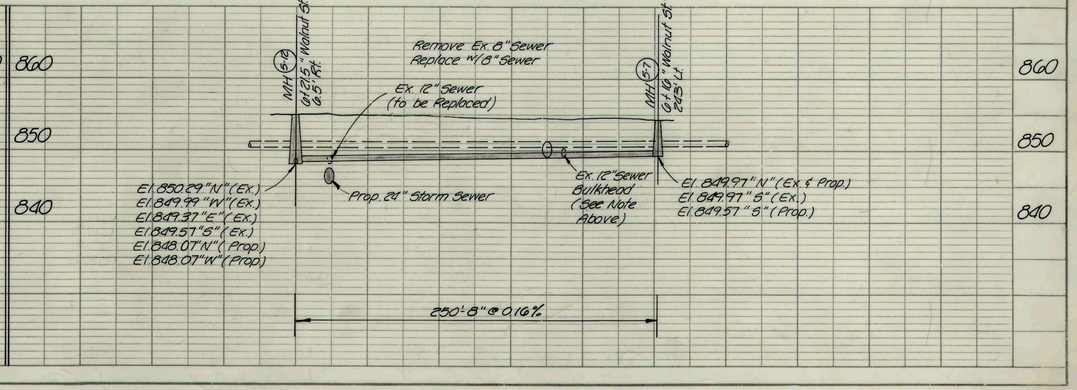
VOID











RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

SEWER LINES "Q, P, & Y"		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 53
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC.	
VERT. 1"=10'	CONSULTING ENGINEERS	
	INDIANAPOLIS, INDIANA	

PLAN — SURVEYED BY: PLOTTED: NOTE BOOK: NO. — ALIGNMENT CHECKED: RT. OF WAY CHECKED: DATE: BY:

PROFILE — SURVEYED BY: PLOTTED: NOTE BOOK: NO. — GRADES CHECKED: R - M NOTED: STRUCTURES/UTILITIES CHKD:

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED, PLOTTED, LOCATION CHECKED, R.E. OR WAY CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, LOCATION CHECKED, B. M.'s NOTED, STRUCTURE NOTATIONS CHKD., NO., BY, DATE

PENDLETON AVENUE

MH G-37 — MH G-36 — MH G-35 — MH G-34

App. R. — 2.5% G — FIELD LINE — "O" LINE

9+9030 PENDLETON AVE.

12+6851 PENDLETON AVE. 55+7044

17+4509 PENDLETON AVE.

Matchline 20+50 See This Sht. Lower Left

MH G-37 +88.13 Lft. — MH G-36 +15.17 Lft. — MH G-35 +81.25 Lft. — MH G-34 +157.24 Lft.

EL. 871.24"N"

EL. 869.46"S" EL. 869.26"N"

EL. 868.71"W" EL. 868.77"S" EL. 868.49"N"

Approx Rock El.

EL. 866.64"S" EL. 866.45"N"

2"Gas

424'-8" @ 0.42% — 163'-8" @ 0.42% — 474'-8" @ 0.45% — 372'-8" @ 0.37%

Matchline 20+50 See This Sht. Lower Left

PENDLETON — FARM BUREAU CO-OP — AVENUE — REFORMATORY ROAD

MH G-33 — MH G-32 — MH G-31 — MH G-30

See Sht. 55

Note: Contractor Shall Expose & Verify Locations & Depth Of Exist. Drainage Pipe Before Constructing New Sewer

Lift Station (See Sht. 66)

4" Force Main (200 psi)

Perm. R/W for Lift Station

Permanent Easement — Temp. Easement For Construction

1½" St. Gas

6" PVC Storm Drain

Thrust Block 31+17, 33' Lt.

22+2471 PENDLETON AVE.

27+09.61 PENDLETON AVE.

30+9552 PENDLETON AVE.

35+6492 PENDLETON AVE.

Matchline 20+50 See This Sht. Top Right

Matchline 35+50 See Sht. 55 Top Left

MH G-33 +30.28' Lft. — MH G-32 +67.28' Lft. — MH G-31 +59.85' Lft. — Lift Station +17.47' Lft. — MH G-30 +58.27' Lft.

EL. 865.09"S" EL. 864.97"N"

EL. 863.69"S" EL. 863.54"N"

Exist. 30" Pipe — Exist. 15" Storm

EL. 859.04"S" EL. 859.06"W" EL. 858.90"N"

Thrust Block +17.33' Lt. — 90° Bend

EL. 860.56"N" EL. 858.83"S"

EL. 861.57"S" EL. 861.10"N"

Approx. Rock El.

4" Minimum Bury 1½" St. Gas

437'-8" @ 0.30% — 493'-8" @ 0.91% — 62'-8" @ 0.40% — 39'-8" — 467'-8" @ 1.36%

445 LFT. of 4" Force Main (200 psi)

Matchline 35+50 See Sht. 55 Top Left

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① Need Elevations of In/Out Lines @ Lift Station.
② Need Location of 4" PVC FM @ Lift Station.
③ Need Location of Catch Basin @ Mingles.
④ Need Asbuilt Lengths of Thrust Blocks.
⑤ Need Location of Thrust Blocks.

BWC 3/14/85

REVISED 3-19-84
CHANGED R/W AROUND

RECORD DRAWING
Changed Grade From MH 6-30 To MH 6-28

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

PENDLETON AVENUE		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 54
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PENDLETON AVENUE

Temp. Easement for Constr.

Air Release Valve

Matchline 35+50 See Sht. 54 Top Right

35+64.92 PENDLETON AVE.

38+50.93 PENDLETON AVE.

41+73.89 PENDLETON AVE.

Matchline 40+00 See Sht. 55A

@ MH 9/2 6" Intrcpt (Box 11 & 14) & out of MH

4" Force Main (200 psi.)

Note: Box 11 Tied in with Box 14. At Tee At 431' Subsequently 6" Stub is Abandoned, & Available for any future needs.

MH 6-29 MH 6-28 MH 6-15

6" Sewer

INDIANA AVENUE

CENTRAL AVE.

REFORMATORY ROAD

Posit. Ex. Connection Repaired By Reynolds

30" CMP (Caved) 30 Lt.

Lift Station

Perm. R/W for Lift Station

Temp. Esmt for Constr.

Perm. Esmt

4" Force Main (200 psi.)

See Sht. 54 Lower Right

B-28

MH 6-31

3+63.57 Reformatory Rd.

30+95.52 PENDLETON AVE.

Note: Contractor Shall Expose & Verify Location and Depth of Ex. Drainage Pipe Before Constructing New Sewer

5+00.00 Reformatory Rd.

PENN

MH 6-40

PLAN

SURVEYED:
PLOTTED:
GRADES CHECKED:
R/W NOTED:
STRUCTURE NOTATIONS CHKD:
NOTE BOOK:
NO.:
BY:
DATE:

880 / 870 / 860

MH 6-29 4+15.31 Lt.

Air Release Valve @ Max High Point

4' Minimum Bury

MH 6-28 4+50.26 Lt.

El. MH 6-15 4+86.17 Rt.

EL. 863.34 "S"
EL. 863.29 "N"

EL. 864.80 "S"

EL. 869.81 "N" (Ex.)
EL. 869.91 "S" (Ex.)
EL. 870.01 "E" (Ex.)
EL. 871.96 "W" (Prop.)

Matchline 35+50 See Sht. 54 Top Right

See Sht. 54

647'-8" @ 0.34%

670 LF. of 4" Force Main (200 p.s.i.)

36 37 38 39 40 41 42

MH 6-40 4+63.15 Rt.

Ex. 30" Pipe

EL. 862.34 "E"

MH 6-31 4+94.85 Lt. PENDLETON AVE.

EL. 859.04 "S"
EL. 859.06 "W"
EL. 858.90 "N"

Approx. Rock El.

455'-8" @ 0.72%

3 4 5 6 7 8

See Sht. 54 Lower Right

PENN CENTRAL RAILROAD

LINE "O"

5' Temp. Easement for Constr.

MH 6-38

App. R/W

B-284

2" St. G

See View @ Rt.

50+00.00 LINE "O"

49+49.15 LINE "O"

52+59.55 LINE "O"

55+70.44 LINE "O"
12+68.57 PENDLETON AVE.

See Sht. 54

PENDLETON AVENUE

B-64

MH 6-35

* NOTE: THIS SHT. ALL RURAL ROUTE #2.

96+67.70 LINE "O"

PENN CENTRAL RAILROAD

99+49.15 LINE "O"

B-65

37A

50+00.00 LINE "O"

See View @ Rt.

PROFILE

SURVEYED:
PLOTTED:
GRADES CHECKED:
R/W NOTED:
STRUCTURE NOTATIONS CHKD:
NOTE BOOK:
NO.:
BY:
DATE:

890 / 880 / 870 / 860

MH 6-38 4+72.19 Lt.

MH 6-35 4+81.25 Lt. PENDLETON AVE.

EL. 871.11 "S"
EL. 870.95 "E"

EL. 868.71 "W"
EL. 868.49 "N"
EL. 868.77 "S"

585'-8" @ 0.40%

50 51 52 53 54 55 56

MH 6-39 4+45.51 Lt.

MH 6-38 4+72.19 Lt.

EL. 872.60 "N"

EL. 871.11 "S"
EL. 870.95 "E"

APPROXIMATE ROCK EL.

227'-8" @ 0.65%

47 48 49 50

VOID

REVISED 3-19-84
CHANGED R/W AROUND LIFT STATION
Revised 8-1-84
Changed Grade From MH 6-30 To MH 6-28

RECORD DRAWING

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

PENDLETON AVE. / REFORMATORY RD. & LINE "O"

FALL CREEK R.W.D. PLAN & PROFILE

HORIZ. 1" = 50'
VERT. 1" = 10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

SHEET 55

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SYLMAR, INDIANA

PLAN — SURVEYED: DRAWN: PLOTTED: CHECKED: ALIGNMENT CHECKED: R/W NOTED: STRUCTURE NOTATIONS CHECKED: NOTE BOOK: NO. — DATE — BY

PROFILE — SURVEYED: DRAWN: PLOTTED: CHECKED: ALIGNMENT CHECKED: R/W NOTED: STRUCTURE NOTATIONS CHECKED: NOTE BOOK: NO. — DATE — BY

WATER STREET
JOHN STREET
HALLOWELL DRIVE
EAST STREET
FALL PARK DRIVE
COMMUNITY BUILDING
Perm. Easement
Perm. R/W for Lift Station
Thrust Block
Ex. 8" Sewer Clean-Test-Seal-Test See Sht. #47
20+00.00 JOHN ST.
23+52.59 JOHN ST.
7+54.14 HALLOWELL DR.
28+82.09 JOHN ST.
500+00.00 FALL PARK DR.
10+00.00 EAST ST.
10+23.20 HALLOWELL DR.
13+32.54 EAST ST.
16+12.57 EAST ST.
502+83.13 Fall Park Dr.
6+45.74 EAST ST.
See Sht. #57
See Above Rt.
See Below Lt.
See View @ Lt.
See View @ Rt.
Approx. Rock El.
4' Min. Bury
Maintain 1' Min. Clearance Between Utilities
Ex. 24" CMP
2" Force Main (200 psi)
6" Force Main (200 psi)
135 LFT. of 6" Force Main (200 psi)
868 LFT. of 2" Force Main (200 psi)
207'-8" @ 0.45%
300'-8" @ 0.94%
245'-8" @ 0.50%
207'-8" @ 0.56%
320'-8" @ 100%
400'-8" @ 0.30%
NOTE: Contractor shall expose and verify location and depth of 15" Sewer before constructing new line on East Street
NOTE: Contractor Shall Expose & Verify location & Depth of Ex. Water Line before Constructing New Sewer. Relocate Waterline as Required.

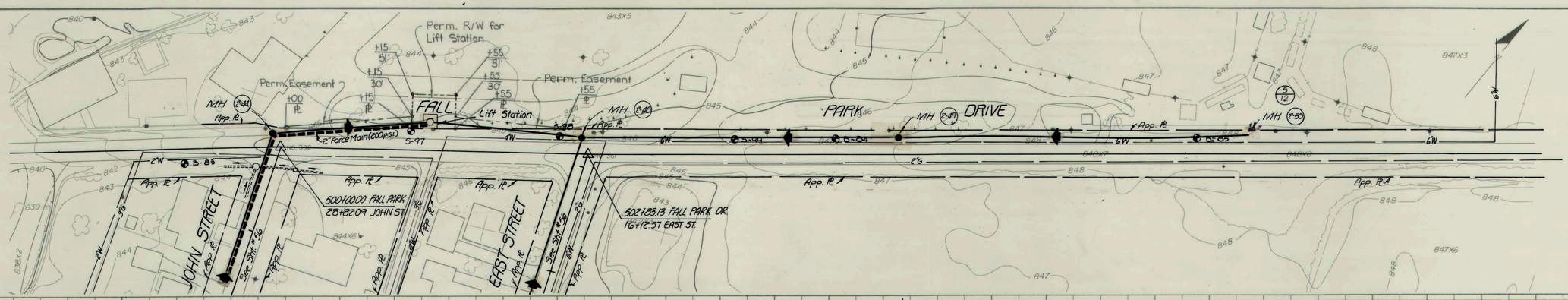
RECORD DRAWING

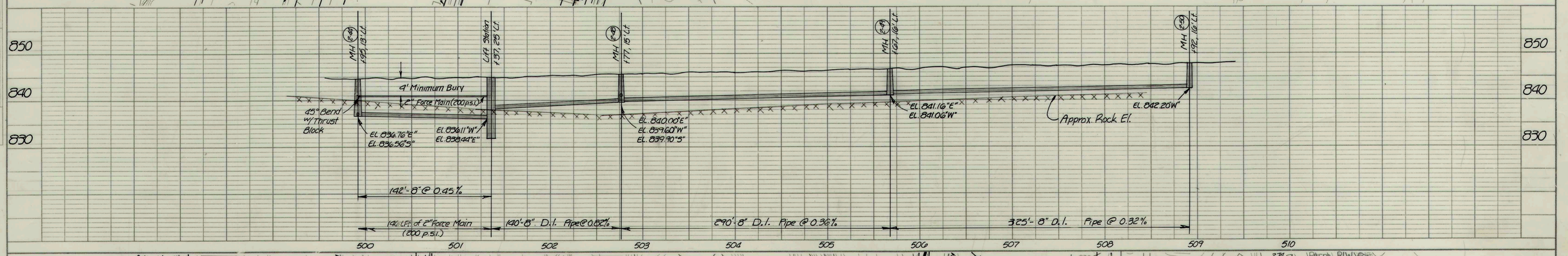
ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

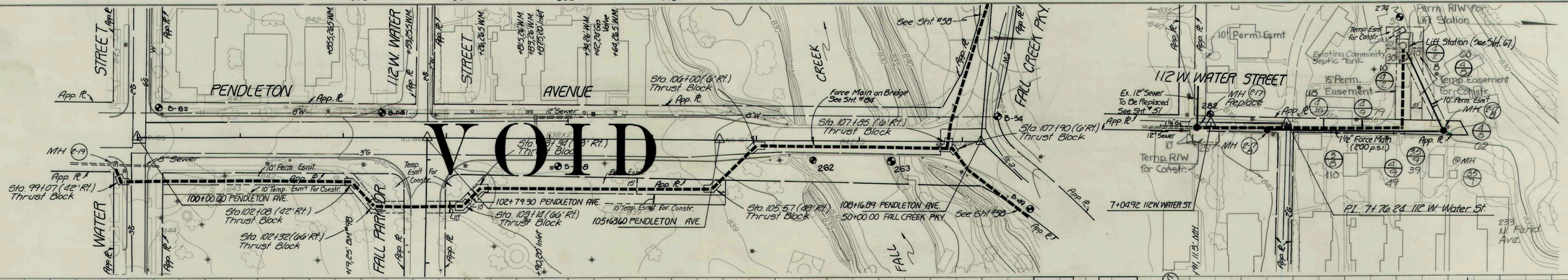
WATER STREET / JOHN STREET HALLOWELL DRIVE / EAST STREET		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 56
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

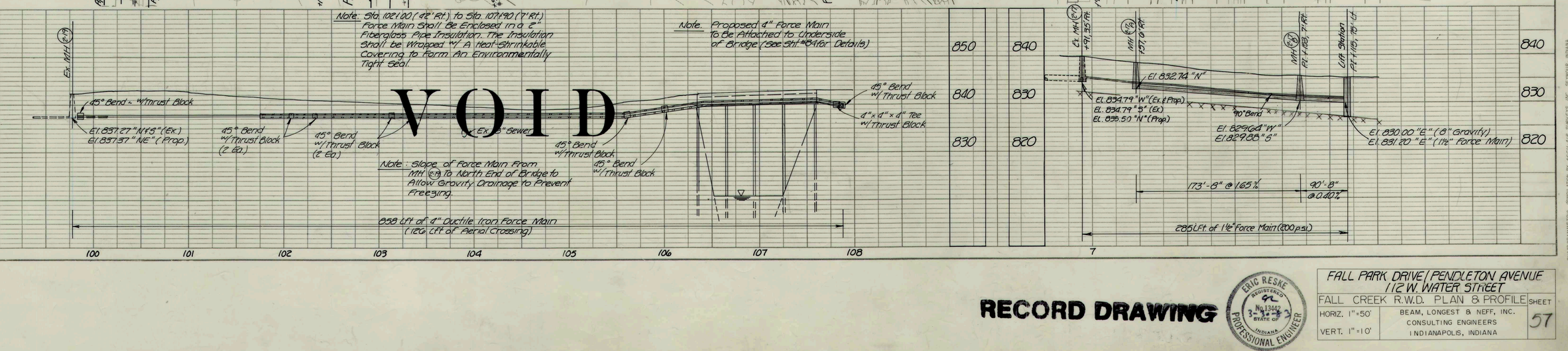
PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN
SURVEYED:
PLOTTED:
NOTE BOOK: ALL DIMENSIONS IN FEET & M.I. NOTED.
NO.
DATE
BY









PROFILE
SURVEYED:
PLOTTED:
NOTE BOOK: ALL DIMENSIONS IN FEET & M.I. NOTED.
NO.
DATE
BY
STRUCTURE NOTATIONS OMITTED

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

FALL PARK DRIVE / PENDLETON AVENUE
112 W. WATER STREET
FALL CREEK R.W.D. PLAN & PROFILE
SHEET 57
HORIZ. 1"=50'
VERT. 1"=10'
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PENDLETON AVENUE

ANDERSON MASONRY

HOUSE OF SERVICE

MACE FOODS INC.

G.T.E.

364 365 364A 368 370 371 372

Sta. 107+85 (6' Rt.) Tee w/Thrust Block

Sta. 107+90 (6' Rt.) Thrust Block

108+16.89 PENDLETON AVE. 50+00.00 FALL CREEK PKY

111+95.00 PENDLETON AVE.

116+13.88 PENDLETON AVE.

118+66.00 PENDLETON AVE.

Perm. Easement

Perm. R/W for Lift Station

Lift Station (See Sht. 66)

Vacuum Release Valve

4" Force Main (200 p.s.i.)

MH (251) MH (252) MH (253)

B-49 B-50 B-51 B-52 B-53 B-54

S-93 S-94 S-95 S-96 S-157 S-158

See View Below Rt. See Sht. 57

See Sht. 56

App. Rt.

2"W

2"St.G.

3"St.G.

Vacuum Release Valve LIFT STATION +21,38 Rt.

4" Minimum Bury

4" Force Main (200 p.s.i.)

El. 844.51 "N"

El. 840.48

45° Bend w/Thrust Block

330 LFT. of 4" Force Main (200 p.s.i.)

El. 855.62 "N"

El. 855.82 "S"

395'-8" @ 2.81%

El. 861.28 "N"

El. 861.38 "S"

339'-8" @ 1.61%

El. 862.48 "S"

242'-8" @ 0.50%

870 860 850 840

108 109 110 111 112 113 114 115 116 117 118 119 120 121 122

NOTE: HOMES ALONG ST. RD. 132 ARE RURAL ROUTE #4.

STATE ROAD 132

FALL CRK. PKY.

FALL CREEK PARKWAY

PARSONAGE

BAPTIST CHURCH

MAIN STREET

PENDLETON AVENUE

45+17.27 St. Rd. 132 45+17.27 FALL CRK. PKY.

43+08.40 St. Rd. 132

Sta. 42+65.16 (16 Rt.) Thrust Block Perm. R/W for Lift Sta. Lift Station (See Sht. 66)

See Profile @ Lower Right

Temp. Easement For Construction

4" Force Main

4"x4"x4" Wye w/ 4"x4" Thrust Block

See This Sht. Rt.

See This Sht. Left

10' TEMP ESMT. FOR CONSTR.

50+00.00 FALL CREEK PKY. 108+16.89 PENDLETON AVE.

See View Above

Sta. 107+90 (6' Rt.) Pendleton Avenue Bend w/ Thrust Block

4"x4"x4" Wye w/ 4"x4" Thrust Block 5ht. This Sht. Lt.

90 L.F. - 1½" Force Main

47+29.58 FALL CRK. PKY.

10' Temp. Easement for Construction

Simplex Grinder Pump Sta. W/ 5 L.F. - 1½" Force Main

MH (254) MH (255) MH (256)

El. 833.08 "E" El. 832.98 "W" El. 832.74 "S"

El. 837.56 "W"

127'-8" @ 0.54%

108'-8" @ 3.65%

El. 832.98 "E" El. 832.98 "W" El. 832.74 "S"

El. 830.00 "N"

73'-8" @ 3.75%

280 LFT. of 4" Force Main (200 p.s.i.)

Approx. Rock El.

4" x 4" x 4" Tee w/ Thrust Block

508 LFT. of 4" Force Main (200 p.s.i.)

Elevation Breakline

840 830 820

41 42 43 44 45 46 47 48 49 50

PLAN

SURVEYED. PLOTTED. GRADES CHECKED. R/W & NOTED. STRUCTURE NOTATIONS CHKD. NOTE BOOK NO. DATE BY

PROFILE

SURVEYED. PLOTTED. GRADES CHECKED. ALIGNMENT CHECKED. RT. OF WAY CHECKED. NOTE BOOK NO. DATE BY

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

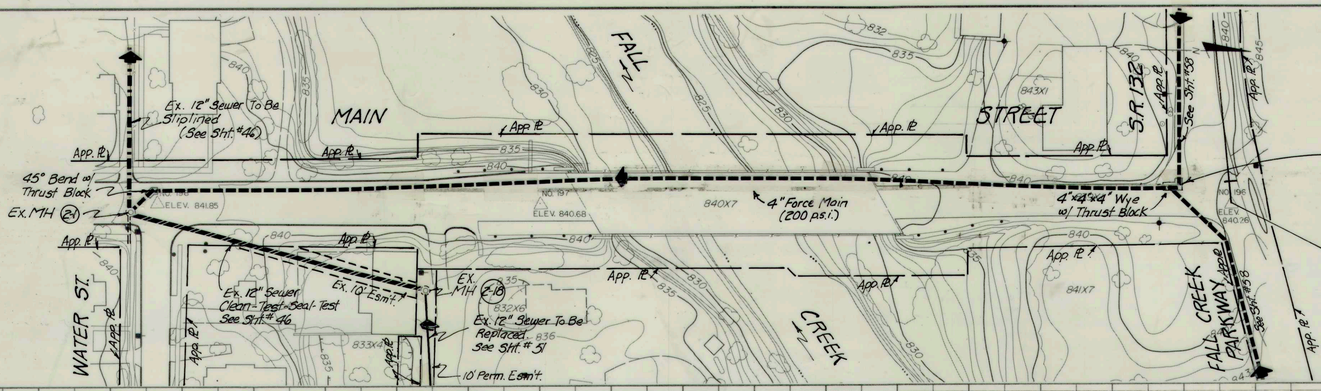
RECORD DRAWING

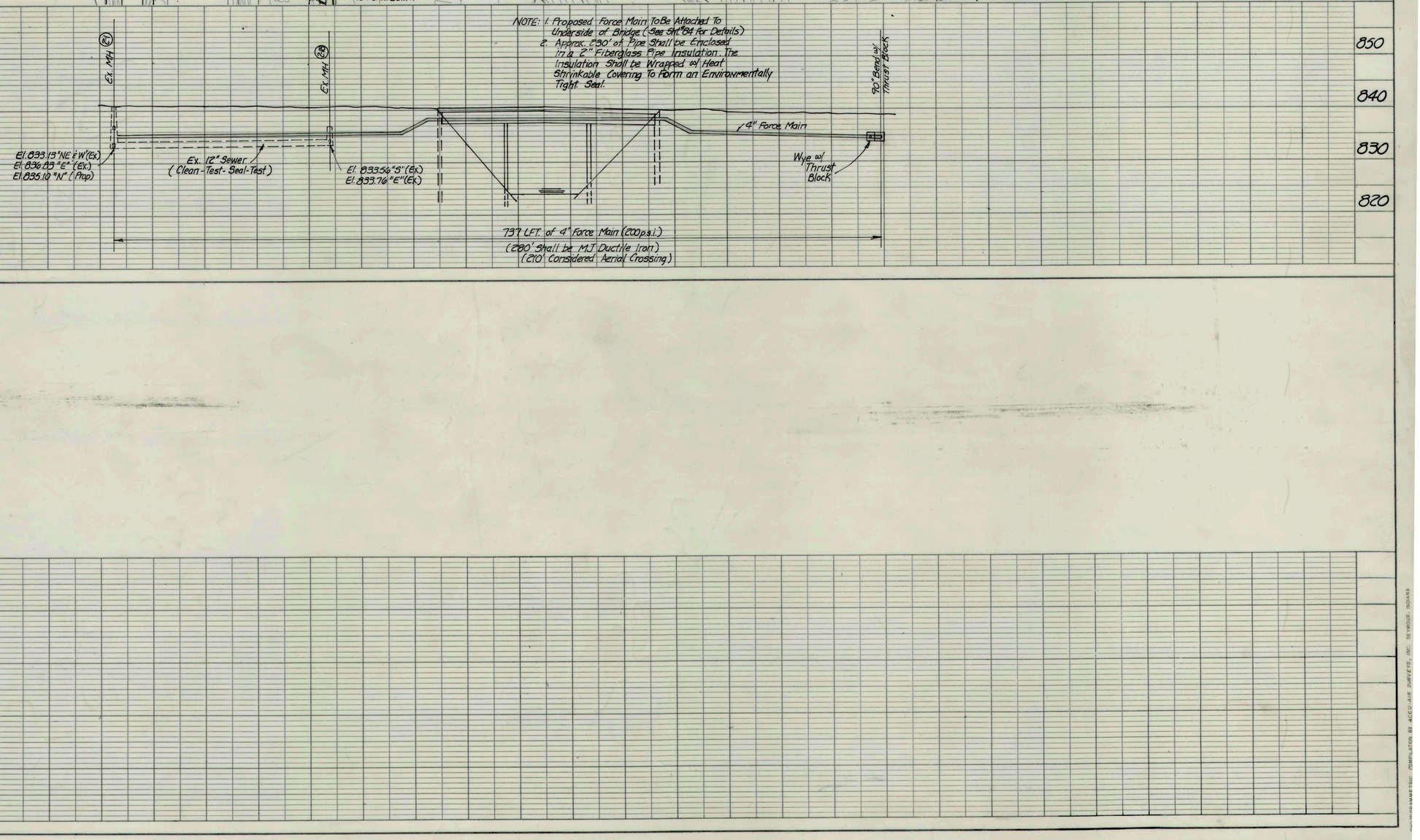
ERIC RESKE REGISTERED ER No. 13342 3-22-83 STATE OF INDIANA PROFESSIONAL ENGINEER

PENDLETON AVENUE
STATE ROAD 132 / FALL CREEK PKY.
FALL CREEK R.W.D. PLAN & PROFILE SHEET 55

HORIZ. 1"=50' VERT. 1"=10'

BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA





PLAN
SURVEYED
DRAWN
CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
DRAWN
CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHK'D.
NOTE BOOK
NO.
BY
DATE

RECORD DRAWING

ERIC RESKE
REGISTERED
ER
No. 13442
3-30-83
INDIANA
PROFESSIONAL ENGINEER

MAIN STREET		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	58A
VERT. 1"=10'		

REPRODUCED FROM COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

NOTE : ALL HOMES ON THIS SHEET ARE RURAL ROUTE 3, BOX# SHOWN.

"LATERAL LEGEND"
A = DISTANCE FROM D/S MH.
X = DEPTH @ ℄.
Y = LENGTH FROM MAIN TO ℄.

PLAN — SURVEYED, DRAWN, ALIGNMENT CHECKED, GRADES CHECKED, R/W NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, DRAWN, GRADES CHECKED, R/W NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13442 — STATE OF INDIANA — PROFESSIONAL ENGINEER

"ASBUILT" 1/25/85 BWC

WATER STREET/ LINE "P"

FALL CREEK R.W.D. PLAN & PROFILE	SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA
VERT. 1"=10'	59

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

NOTE: ALL HOMES ON THIS SHEET ARE RURAL ROUTE 3, BOX# SHOWN.

"LATERAL LEGEND"
A = DISTANCE FROM D/S MH.
X = DEPTH @ ℄.
Y = LENGTH FROM MAIN TO ℄.

WEST CENTRAL WAY

10+00.00 WEST CENTRAL WAY

15+04.87 WEST CENTRAL WAY

19+24.78 WEST CENTRAL WAY
107+12.38 WATER ST.

10' Temp. Esm't For Constr.

VACANT LOT

VACANT LOT

WATER STREET

EL. 852.15 "N"

APPROXIMATE ROCK EL.

EL. 850.44 "S"
EL. 850.43 "N"

EL. 848.80 "S"
EL. 848.72 "E"

APPROXIMATE ROCK EL.

424'-8" @ 0.40%

445'-8" @ 0.37%

EAST CENTRAL WAY

10+00.00 EAST CENTRAL WAY

15+83.53 EAST CENTRAL WAY

20+82.52 EAST CENTRAL WAY
111+16.12 WATER STREET

10' Perm. Esmt.

10' Temp. Esmt for Const.

EL. 853.23 "N"
EL. 853.28 "E"

EL. 850.84 "S"
EL. 850.81 "N"

Approx. Rock El.

EL. 849.39 "E"
EL. 849.34 "W"
EL. 849.34 "S"

540'-8" @ 0.44%

540'-8" @ 0.27%

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/W OR WAY CHECKED
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
GRID CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.

DATE | BY

RECORD DRAWING

ERIC RESKE
REGISTERED
No. 13442
STATE OF INDIANA
PROFESSIONAL ENGINEER

"ASBUILT"
1/23/85
EWC

WEST & EAST CENTRAL WAY

FALL CREEK R.W.D. PLAN & PROFILE — SHEET 60

HORIZ. 1"=50'
VERT. 1"=10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-MAP SURVEYS, INC. SEYMOUR, INDIANA

PLAN — SURVEYED: ALIGNMENT CHECKED: GRADES CHECKED: R. M.'s NOTED: STRUCTURE NOTATIONS CHKD: NOTE BOOK: NO.: BY: DATE:

PROFILE — SURVEYED: ALIGNMENT CHECKED: GRADES CHECKED: R. M.'s NOTED: STRUCTURE NOTATIONS CHKD: NOTE BOOK: NO.: BY: DATE:

MARATHON GAS · NAPA · PIZZA KING · PENDLETON MOTEL · STATE FARM INS. · DAIRY BAR · FALL CREEK ELECTRONICS · CLANCY'S · CHECKER GAS · STATE ROAD 67 · STATE ROAD 38 · STATE ROAD 36

Traffic Signal Handhole · Buried Conduit · Underground Conduit · Traffic Detector Pads · Thrust Block Read 216+91, 45° Lt. · Force Main (200 psi) · Temp. Easement for Constr. · Perm. R/W for Lift Station · Lift Station (See Sht. 61) · 10' Temp Esm't · 10' Perm Esm't · See Sht. 61A for Profile · See This Sht. Lower Left · See This Sht. Lower Right · See This Sht. Top Right · By Div. "C" Contract · 60° Bore & Jack · 55' Bore & Jack · Concrete St. Footer (Buried) · Metal Detector Pads · M.H. (2-72) · M.H. (2-73) · M.H. (2-74) · M.H. (2-70) · M.H. (2-71) · B-288 · B-287 · S-118 · S-119 · S-120 · S-139 · S-159 · S-160 · S-165 · S-166 · S-167 · S-168

209+28.43 St. Rd 67 · 214+15.81 St. Rd 67 · 217+95.81 St. Rd 67 · 00+00.00 St. Rd 36 · 222+77.06 St. Rd 67 · 10+00.00 East Central Way · 222+96.76 St. Rd 67 (24+04.11 Water St.)

To Pendleton Furniture Mart · 4" Minimum Bury · 90° Bend · Approx. Rock El. · 2" Force Main (200 psi) · Lift Station #19, 45° Lt. · El. 851.53 "N" · El. 851.75 "S" · 424 LFT. of 2" Force Main (200 psi) · 340'-8" @ 0.35% · 366'-8" @ 0.39% · El. 852.78 "N" · El. 852.72 "S" · El. 852.74 "W" · El. 854.23'S" · El. 854.32'E" · Matchline 224+25 See This Sht. Lower Left

IRISH POINT (DEMOLISHED) · HAYDEN WAY · SEWER LINE "V" · VOID · SEWER LINE "U" · EAST CENTRAL WAY · PEND. MOTEL · NAPA

Matchline 224+25 See This Sht. Top Right · 55' Bore & Jack · 6" Carrier Pipe @ 0.40% (20' Min. Steel Casing Min. Thickness 0.344") · 29'-8" @ 0.40% (Exclusive of Bore & Jack) · 288'-8" @ 0.42% · Match line 227+13 See Sht. 62 Top Left · El. 854.77 "N" · El. 854.72 "W" · El. 855.98 "S" · El. 856.12 "N" · El. 854.32 "E" · El. 854.35 "S" · 198'-8" @ 0.40% · El. 853.61 "W" · El. 853.61 "N" · El. 853.51 "S" · 203'-8" @ 0.69% · El. 853.28 "E" · El. 853.28 "N" · El. 854.08 "W" · El. 855.45 "SW" · See View @ Right · See View @ Left · 150 LFT. of 2" Force Main (200 psi) · El. 855.45 "SE" · El. 854.08 "W" · 90° Bend w/ Thrust Block

REVISED 3-19-84
VOID SEWER LINE "V" & MOVE IT TO A NEW LOCATION

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

STATE ROAD 67
SEWER LINES "U" & "V"
FALL CREEK R.W.D. PLAN & PROFILE — SHEET 61

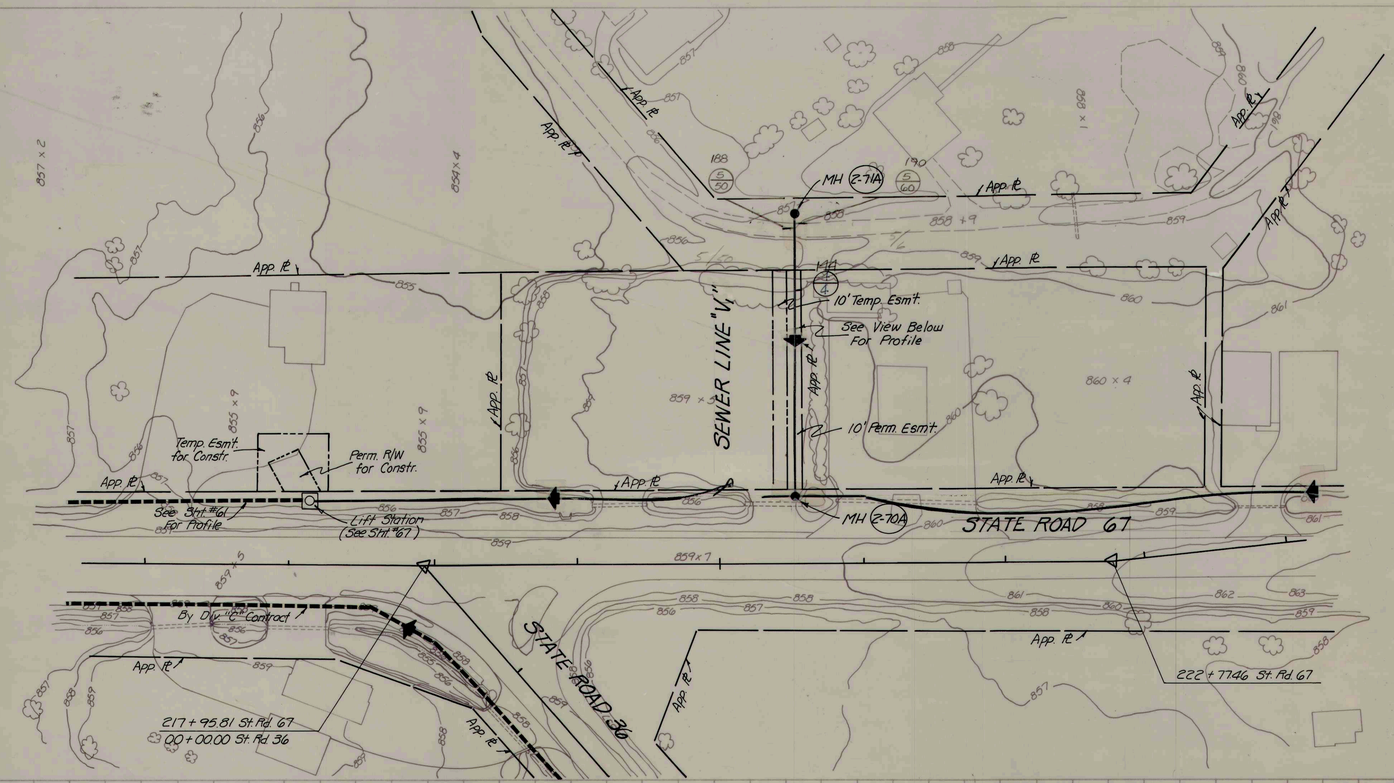
HORIZ. 1"=50' · VERT. 1"=10'

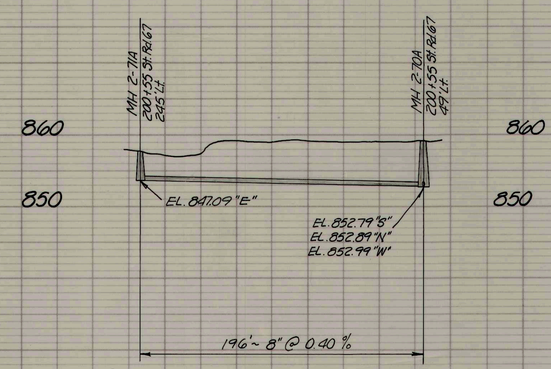
BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R. W. CHECKED
ST. OF WAY CHECKED
BY:
DATE:

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
R. W.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY:
DATE:





SEWER LINE "V1"

STATE ROAD 67

FALL CREEK R.W.D. PLAN & PROFILE

HORIZ. 1" = 50'
VERT. 1" = 10'

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

SHEET 61A

PLATE 1 - PLAN - PROFILE S. R. R. STANDARD
1975

TP114

RECORD DRAWING

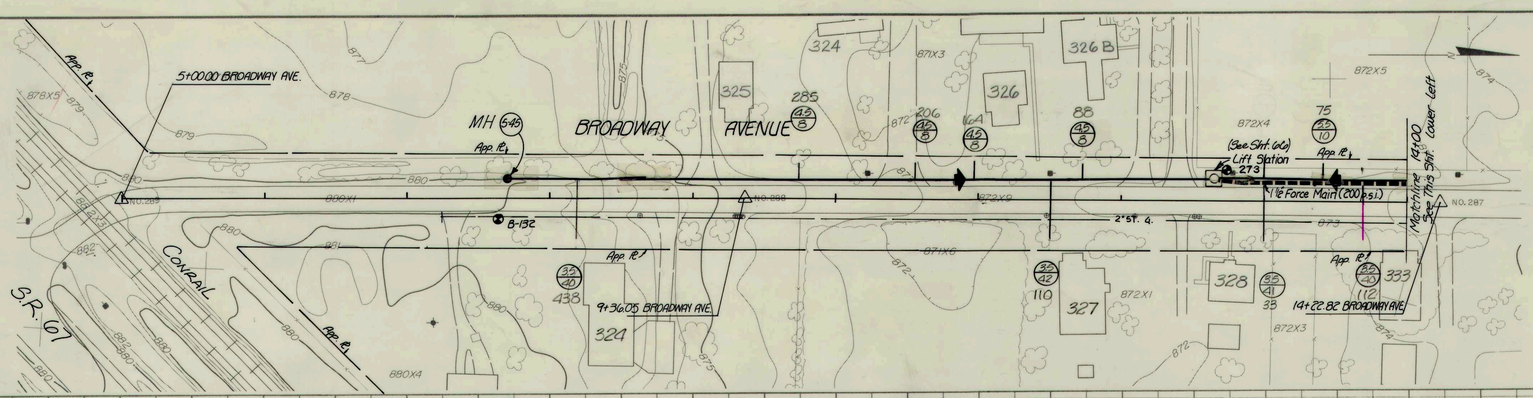
PLAN
SURVEYED
PLOTTED
GRADES CHECKED
ALIGN. CHECKED
R/E OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

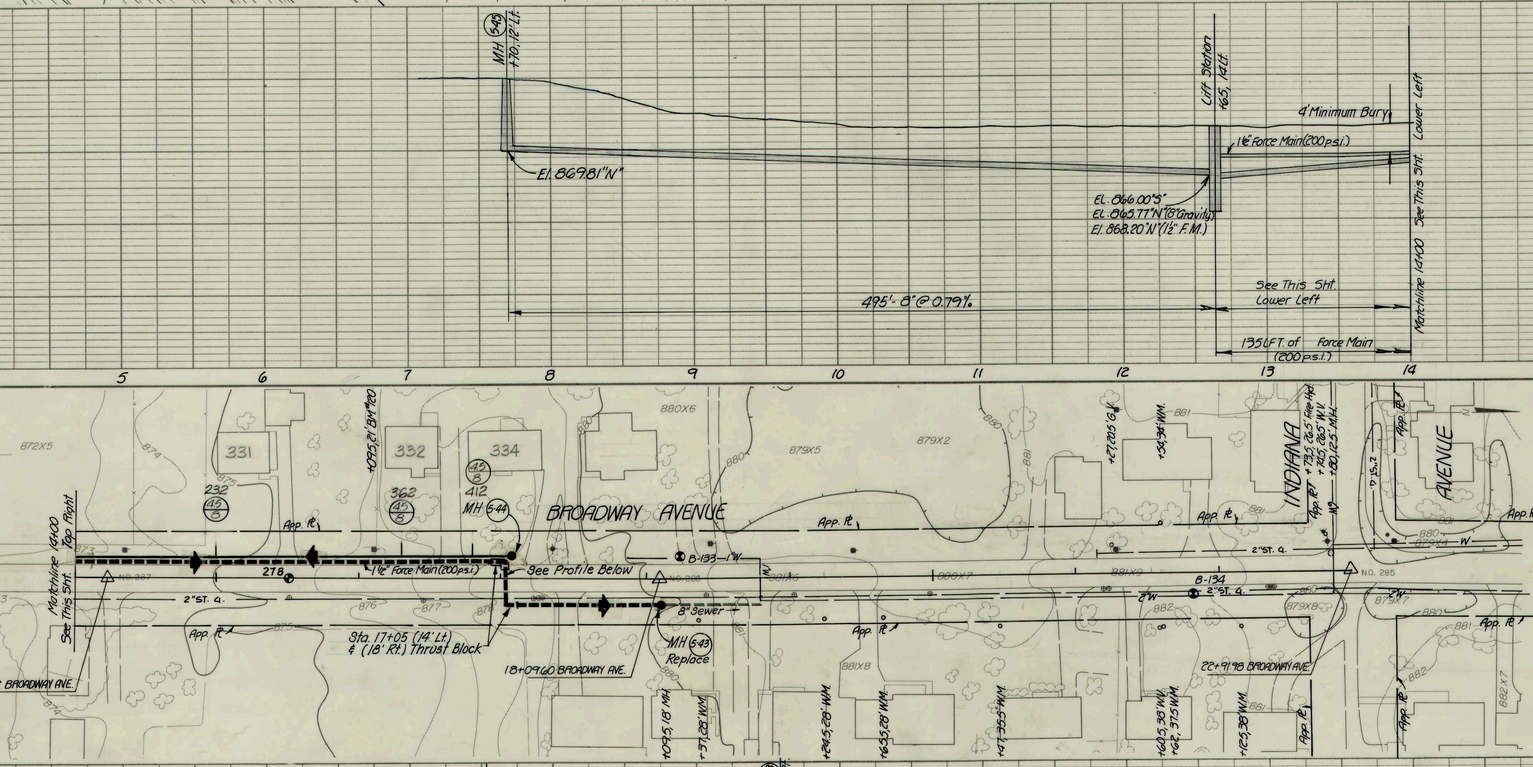
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGN. CHECKED
STRUCTURE NO. (STATIONS ONLY)
NOTE BOOK
NO.
BY
DATE

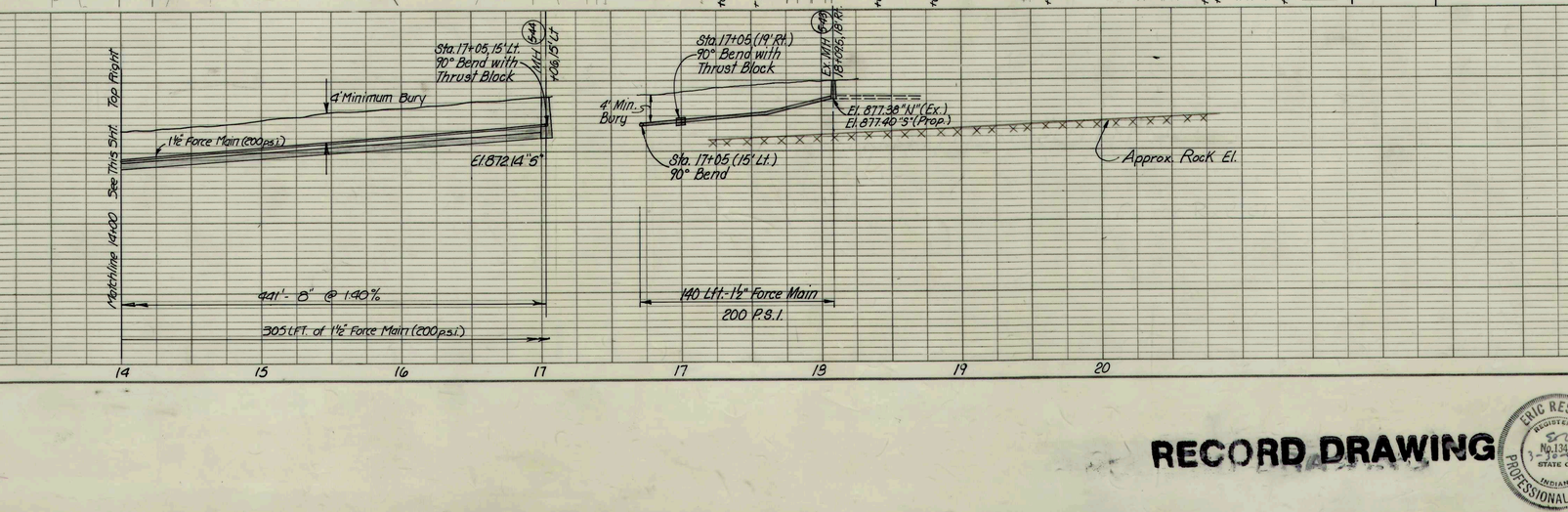
STATE ROAD 67
COUNTY ROAD 300 WEST
WATER STREET
STREET NO. 8
STREET NO. 8
STATE ROAD 67
Temp. Easement for Constr.
Lift Station
10' Perm. Easement
Perm. Esm't.
Temp. Easement for Constr.
Approximate Location of 7200 Volt 1Ø Underground Primary Feeder Cable (Field Locate)
Approx. Rock El.
NOTE: Force Main shall be laid Sloping upward To MH.
850 Lft. of 1½" Force Main (200 p.s.i.)
275 Lft. of 1½" Force Main (200 p.s.i.)
933'-8" @ 0.93%
354'-8" @ 0.42%
d' min. bury
d' Minimum Bury
45° Bend
45° Bend w/ Thrust Block
45° Bend w/ Thrust Block
1½" Force Main (200 p.s.i.)
Matchline Sta. 227+18 See Sht. #61 Lower Left
Matchline Sta. 227+18 See Sht. #61 Lower Left
Matchline Sta. 5+27 See This Sht. Top Right
Matchline Sta. 5+27 See This Sht. Lower Left
Matchline 8+05 See This Sht. Top Right
Matchline 8+05 See This Sht. Lower Left
Matchline Sta. 5+27 See This Sht. Lower Left
Matchline Sta. 5+27 See This Sht. Top Right
Matchline 8+05 See This Sht. Lower Left
Matchline 8+05 See This Sht. Lower Right
Sta. 5+27 (10' Lt.) Thrust Block
Sta. 6+16 (12' Rt.) Thrust Block
Sta. 5+27 St. No. 8 Lower Left
Lift Station #25, 30' Lt.
Lift Station #25, 30' Lt.
MH (2.7')
MH (2.7')
MH (2.7')
MH (2.7')
1685.485' B.M. Dia
App. Rt.
App. Lt.
App. Rt.
App. Rt.
App. R

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, R/W NOTED, R/W CHECKED, STRUCTURE NOTATNS CHKD. — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, R/W NOTED, R/W CHECKED, STRUCTURE NOTATNS CHKD. — NOTE BOOK — NO. — BY — DATE







RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

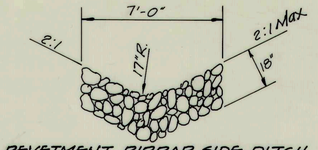
BROADWAY AVENUE		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET 63
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	
VERT. 1"=10'		

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

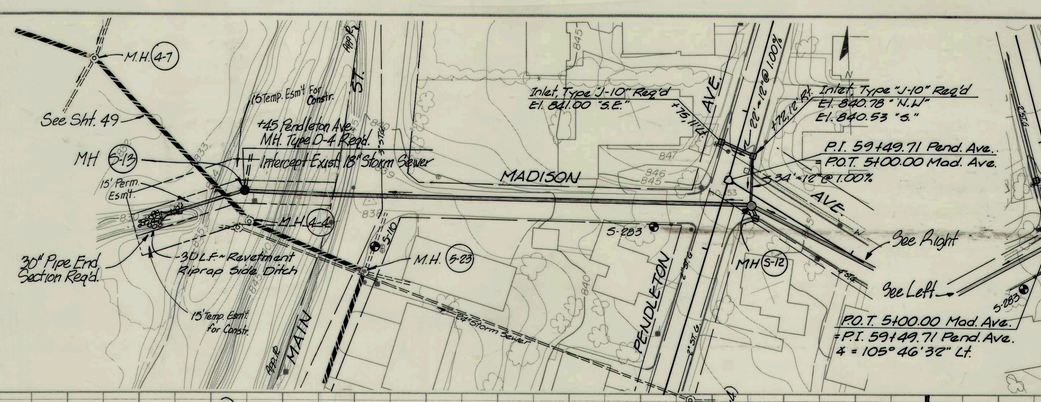
13

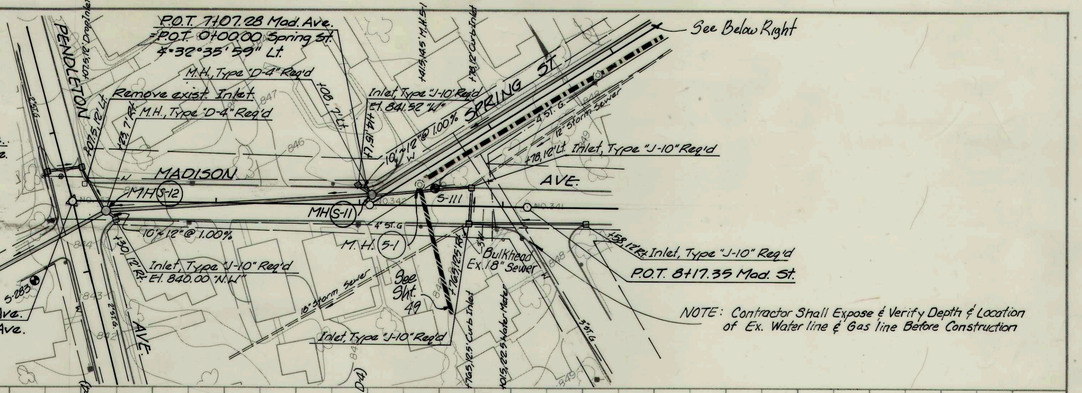
PLAN — SURVEYED: — PLOTTED: — GRADES CHECKED: — R. M.'s NOTED: — STRUCTURE NOTATIONS CHKD: — NOTE BOOK: — NO.: — DATE: — BY:

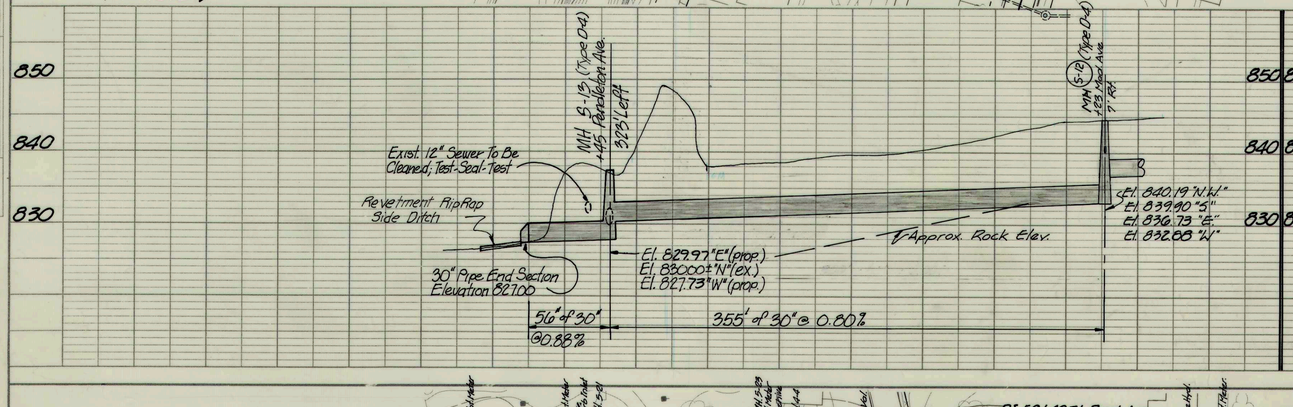
PROFILE — SURVEYED: — PLOTTED: — GRADES CHECKED: — R. M.'s NOTED: — STRUCTURE NOTATIONS CHKD: — NOTE BOOK: — NO.: — DATE: — BY:

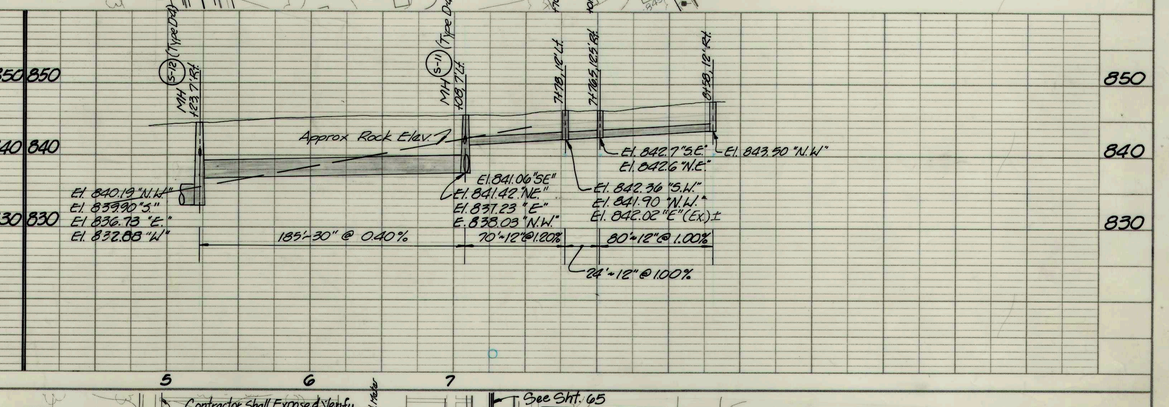


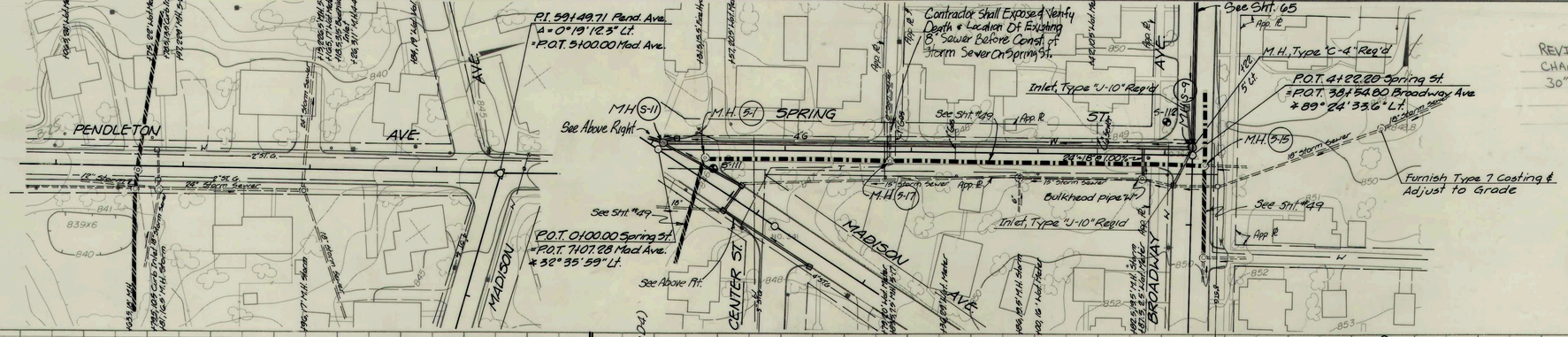
REVETMENT RIPRAP SIDE DITCH (R.R.S.D.)

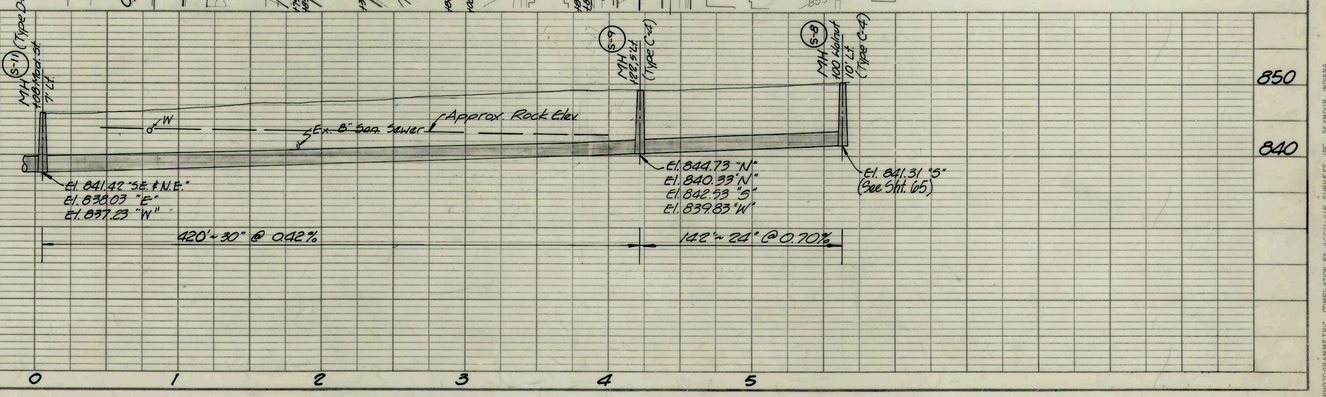












VOID

REVISED 3-19-84
CHANGED ESMT. AROUND 30" PIPE

RECORD DRAWING

ERIC RESKE NOTARIAL SEAL No. 13413 3-16-85 STATE OF INDIANA PROFESSIONAL ENGINEER

MADISON AVE. / PENDLETON AVE. SPRING STREET		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	64
VERT. 1"=10'		

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

PLAN
SURVEYED
PLOTTED
GRADES CHECKED
R/W & EASEMENTS CHECKED
PLOT OF WAY CHECKED
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R/W & EASEMENTS CHECKED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
DATE
BY

Inlet, Type "J-10" Req'd El. 846.00 S.E.

P.O.T. 0+00.00 Walnut St. = P.O.T. 391+93.26 Broadway Ave. ∡ 90° 18' 45.8" Lt.

B-26

M.H. Type "C-4" Req'd 100.10 Lt.

BROADWAY AVE.

S-112

See Sht. #64

MH (S-8)

WALNUT

See Sht. #49

M.H. (S-14)

M.H. (S-2) (Replace)

Inlet, Type "J-10" Req'd El. 846.00 S.W.

Type C MH w/Spl Casting Req'd Bulkhead pipe S.

M.H. Type "C-3" Req'd Bulkhead pipe S.W.

MH (S-6)

S-113

PEARL ST.

Inlet, Type "J-10" Req'd El. 847.74 "E" El. 847.49 "W"

P.O.T. 4+41.66 Walnut St.

Inlet, Type "J-10" Req'd El. 848.00 "W"

12" Storm Sewer

Sewer Line "S"

8" Sanitary See Sht. # 53

MH (S-5)

MH (S-9)

S-114

M.H. (S-10) (Replace)

46' of 12" @ 1.00%

EAST ST.

Proposed 10" Sanitary Sewer See Sht. # 32

M.H. Type "C-4" Req'd See Sheet N° 90

MH (S-3)

P.O.T. 7+82.92 Walnut St. = P.O.T. 5+00.00 East St. ∡ 89° 28' 20.3" Lt.

M.H. (S-11)

10' Temp. Esmt.

100 East of 18' Lt. Inlet, Type "J-10" Req'd. See Sheet N° 95

100 East of 18' Rt. Inlet, Type "J-10" Req'd. See Sheet N° 95

MH (S-8) 100.10 Lt. Type C4

Approx. Rock Elev.

6" W

8" Gas

Ex. 12" Storm Sewer

Proposed 8" Sewer

Ex. 12" Storm Sewer

El. 846.11 "NE" El. 845.82 N.W. El. 841.41 "E" El. 841.31 "S" See Sht. N° 64

426' ~ 24" @ 0.58 %

El. 845.80 "S" El. 844.10 "E" El. 843.70 "W" El. 843.90 "N"

311' ~ 24" @ 0.40 %

El. 845.37 "E" El. 847.67 "S" El. 845.37 "W"

El. 847.44 "N" (Ex. 12") El. 845.98 N.E. El. 845.98 "W"

El. 850.68 "S"

57' - 24" @ 0.37 %

36' - 24" @ 0.44 %

El. 848.33 N.E. "(Ex. 10") El. 845.83 "N" El. 845.83 "SW."

MH (S-7) 129 14 Rt.

Proposed Sanitary Sewer Rt. Plotted 30' Below Datum

El. 847.01 "E" El. 847.01 "W" (Ex. 12")

394' ~ 12" @ 0.27 %

El. 848.07 "N" El. 848.07 "W" El. 849.37 "S" (Ex. 6") El. 849.57 "E" (Ex. 10")

850

840

0 1 2 3 4 5 6 7 8

EAST ST.

10' Storm Sewer

855X4 855X7 856X7

N

VOID

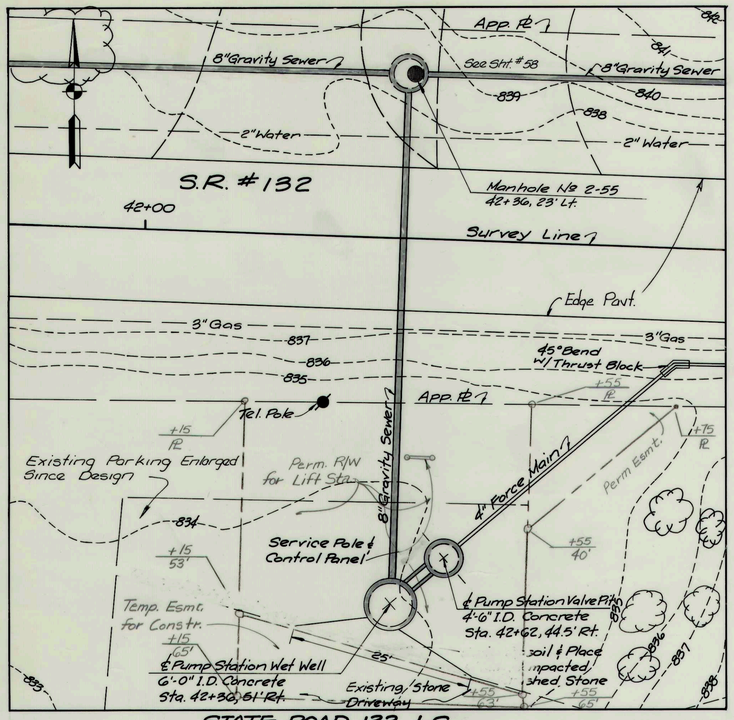
VOID

RECORD DRAWING

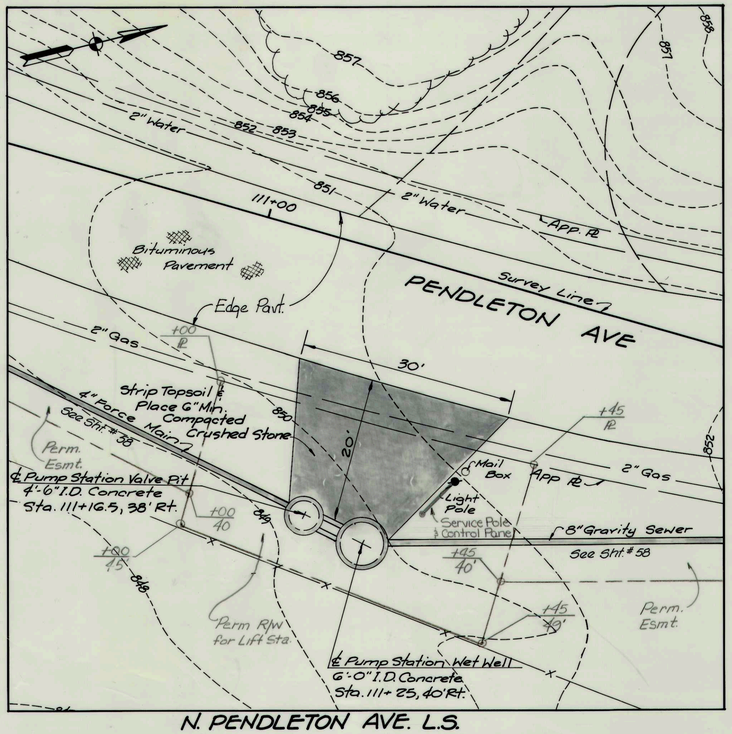
ERIC RESKE REGISTERED No. 12143 STATE OF INDIANA PROFESSIONAL ENGINEER

PHOTOGRAMMETRIC COMPILATION BY ACCU-AIR SURVEYS, INC. SEYMOUR, INDIANA

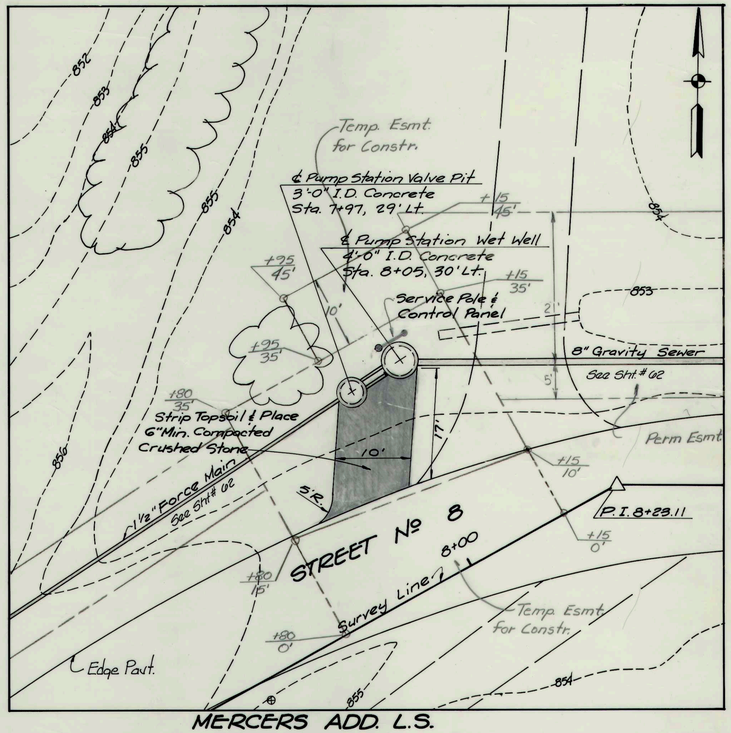
WALNUT STREET		
FALL CREEK R.W.D. PLAN & PROFILE		SHEET
HORIZ. 1"=50'	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS INDIANAPOLIS, INDIANA	65
VERT. 1"=10'		



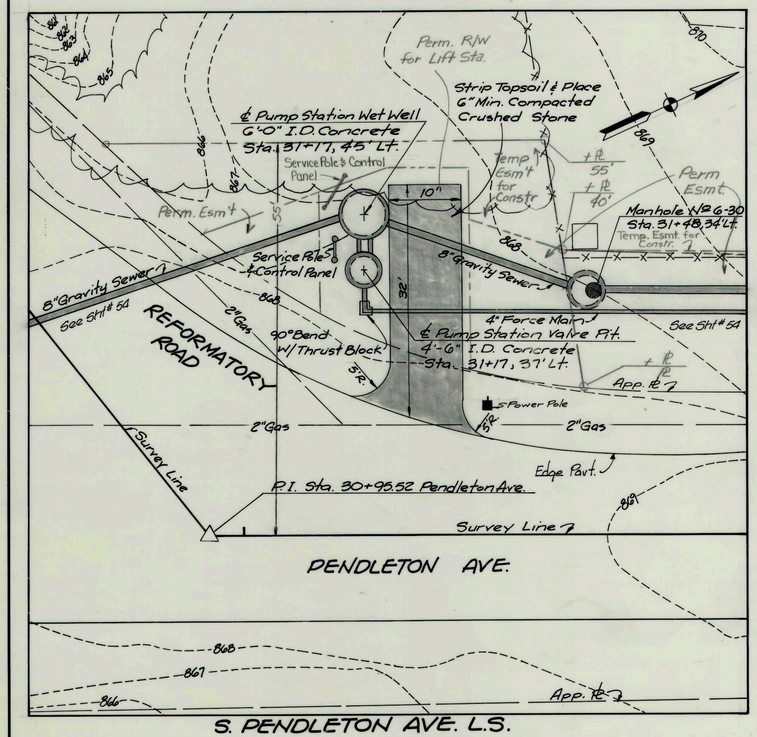
STATE ROAD 132 L.S.



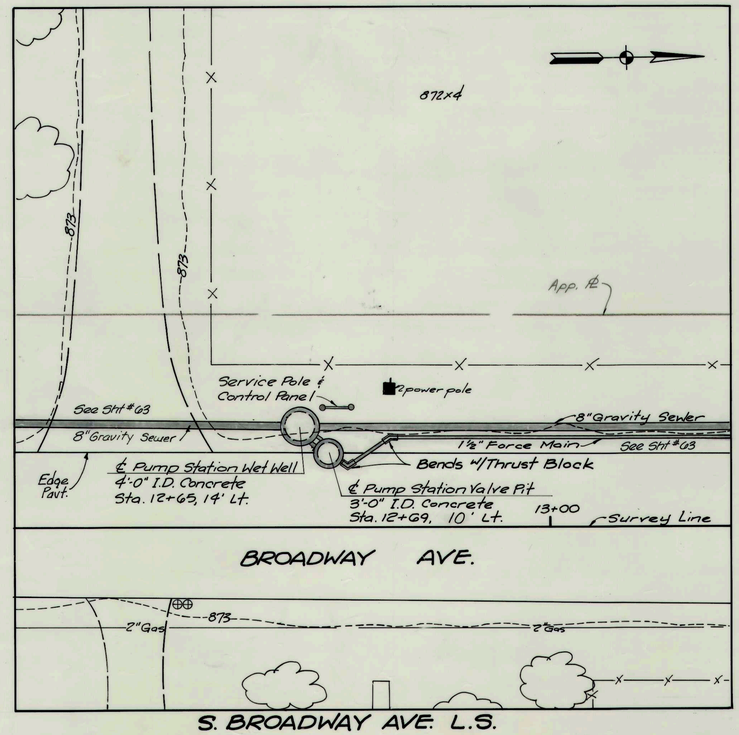
N. PENDLETON AVE. L.S.



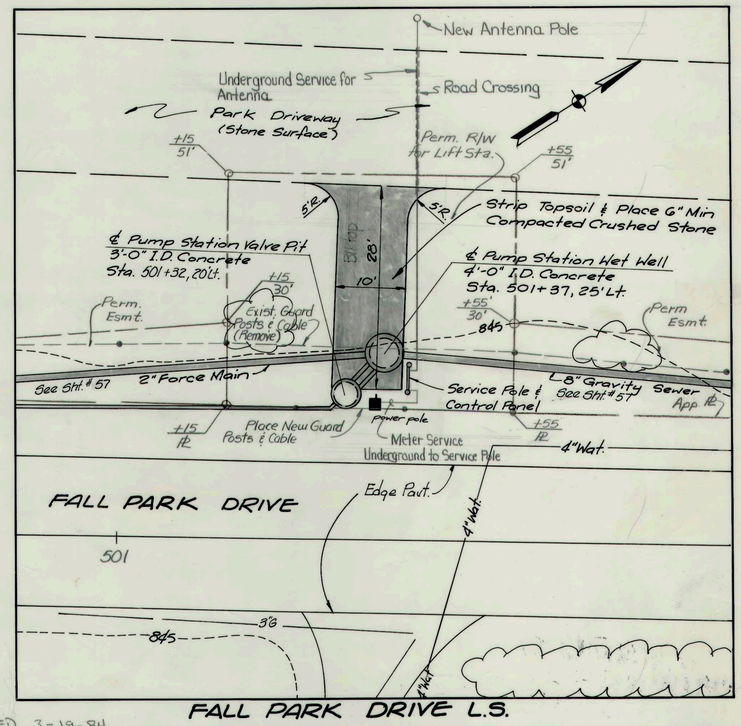
MERCERS ADD. L.S.



S. PENDLETON AVE. L.S.



S. BROADWAY AVE. L.S.



FALL PARK DRIVE L.S.

REVISED 3-19-84
CHANGED ESMT AROUND
S. PENDLETON AVE. LIFT STATION

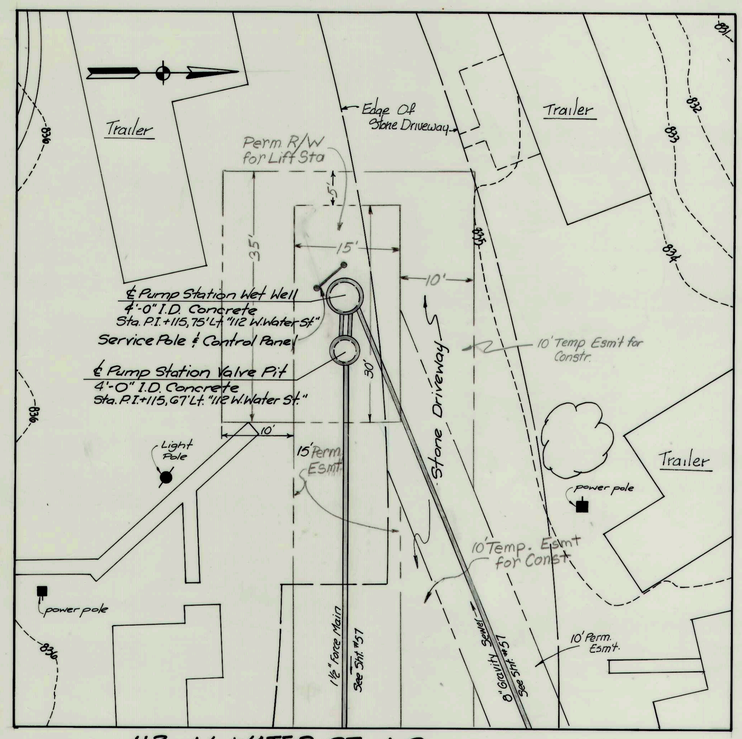
RECORD DRAWING

ERIC RESKE REGISTERED No. 13143 STATE OF INDIANA PROFESSIONAL ENGINEER

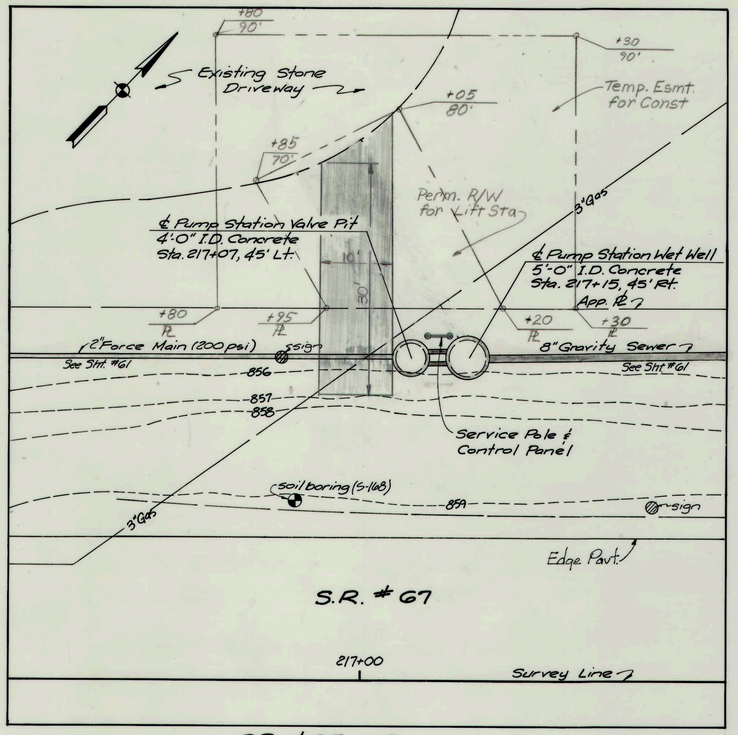
LIFT STATION LAYOUTS

Scale: 1"=10'	FALL CREEK R.W.D.	Sheet 66
Drawn By: VMS.	BEAM, LONGEST & NEFF	
Designed By: GDL. SE.	Consulting Engineers 8136 Castleton Road Indianapolis In. 46250	
Certified By: ER.		

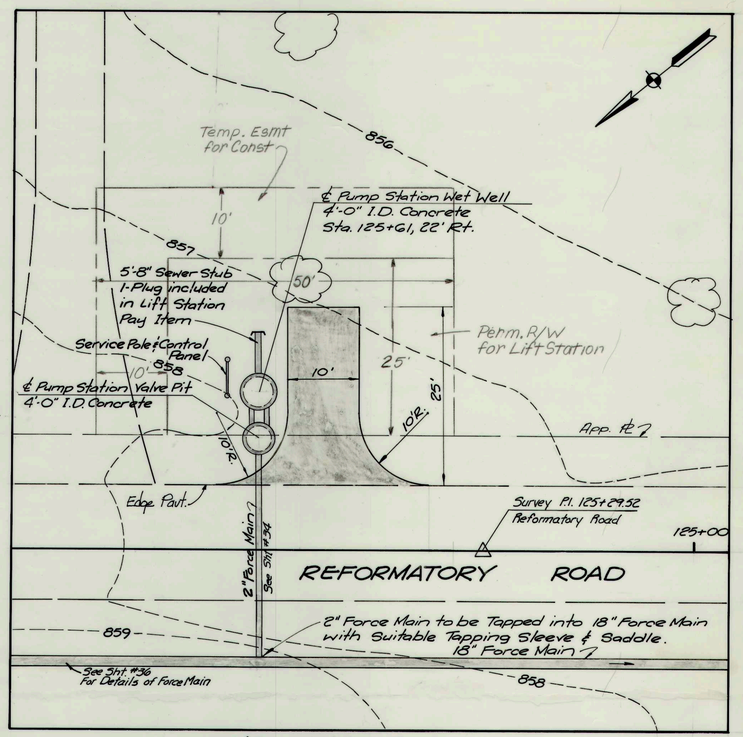
MARBAUGH N36508



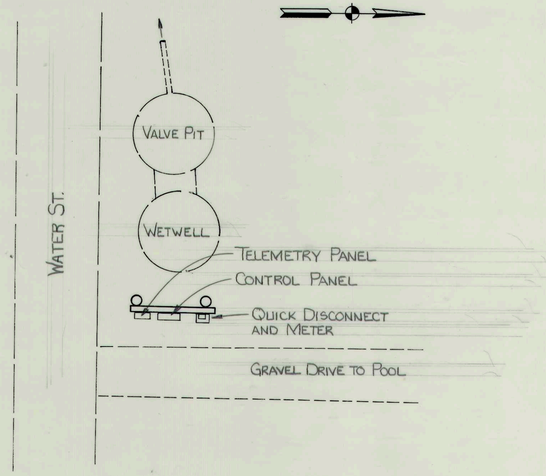
112 W. WATER ST. L.S.



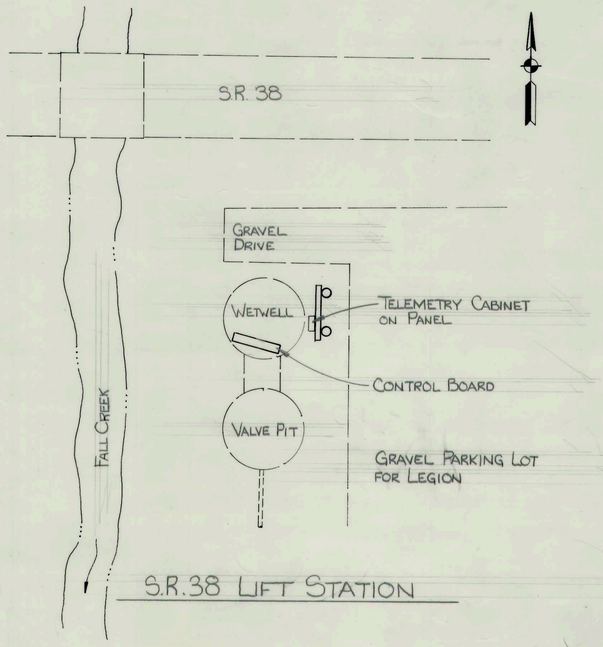
S.R. #67 L.S.



N.E. - M.H.P. L.S.



EXISTING WATER STREET LIFT STATION



S.R.38 LIFT STATION

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

LIFT STATION LAYOUTS

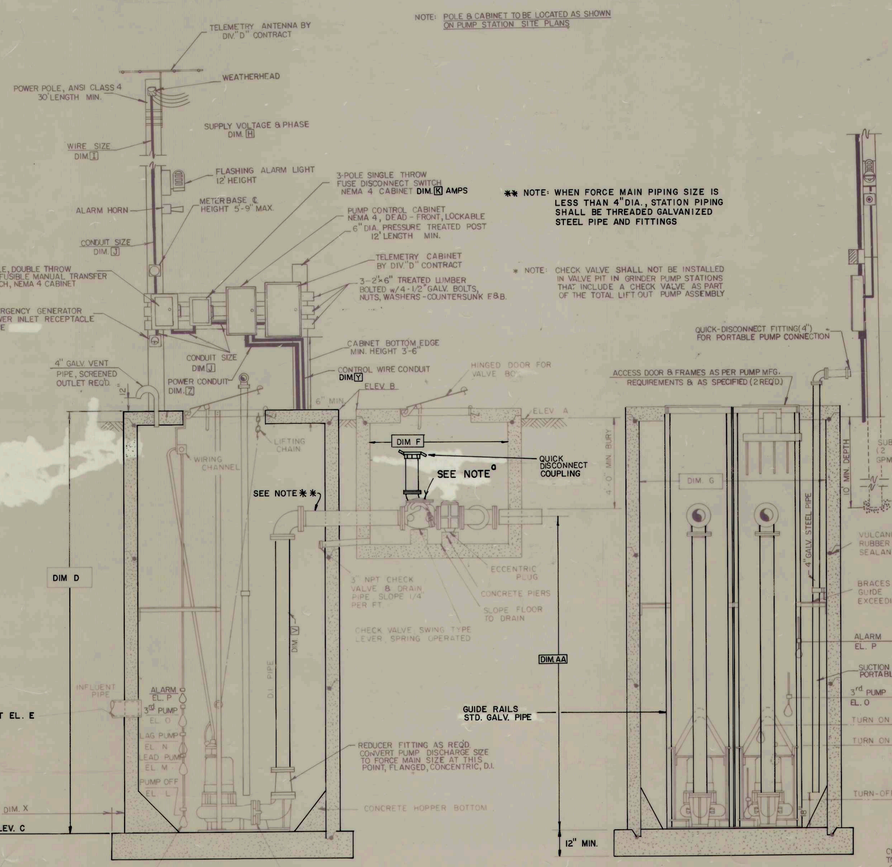
Scale: 1"= 10'	FALL CREEK R.W.D.	Sheet
Drawn By: V.M.S.	BEAM, LONGEST & NEFF	67
Designed By: GDL SE	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MAIBAUGH N26509

LIFT STATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
S. PENDLETON AVE.	867.00	868.91	854.49	13.5'	860.90 N 858.91 S	4'-6"	6'	240-3 ϕ	3 #6 1 #10	1"	60A	855.00	857.00	858.00	—	858.70	8'	80	25'	2	—	4"	50	12"	2"	1" MIN.	8.5'
S. BROADWAY AVE.	873.00	867.35[a]	855.61	12.5'	860.41 S 860.51 N	3'-0"	4'	240-1 ϕ	2 #6 1 #10	1"	60A	862.50	863.50	864.50	—	865.00	6'	12	30'	2	—	1½"	60	12"	2"	1" MIN.	7.5'
112 W. WATER ST.	835.50	835.92	826.91	9'	831.41 S 829.71 E	4'-0"	4'	240-3 ϕ	3 #6 1 #10	1"	60A	828.00	829.00	829.80	—	830.00	8'	11	13'	2	—	1½"	30	12"	2"	1" MIN.	4'
S.R.132 *	834.00	835.16	825.89	9'	830.34	4'-6"	6'	240-1 ϕ	2 #6 1 #10	1"	60A	826.50	828.00	829.00	—	830.00	10'	80	31'	2	—	4"	50	12"	2"	1" MIN.	4'
N. PENDLETON AVE. *	850.00	850.74	840.67	10'	844.35	4'-6"	6'	240-1 ϕ	2 #6 1 #10	1"	60A	841.50	843.00	844.00	—	844.50	9'	100	33'	2	—	4"	50	12"	2"	1" MIN.	5'
FALL PARK DR.	845.00	845.43	832.06	13.5'	836.14 W 838.40 E	3'-0"	4'	240-1 ϕ	2 #6 1 #10	1"	60A	833.11	834.61	835.61	—	836.00	8'	28	37'	2	—	2"	80	12"	2"	1" MIN.	6.5'
S.R. 67	855.50	856.01	846.90	8.5'	851.53	4'-0"	5'	240-1 ϕ	2 #6 1 #10	1"	60A	848.50	850.00	851.00	—	851.50	8'	30	22'	2	—	2"	50	12"	2"	1" MIN.	4'
MERCERS ADDITION	853.50	854.17	841.97	12.3'	845.82	4'-0"	4'	240-1 ϕ	2 #6 1 #10	1"	60A	842.70	843.70	844.70	—	845.25	8'	16	56'	2	—	1½"	100	12"	2"	1" MIN.	7.0'
NE - M.H.P.	855.50	856.00	845.09	11'	850.31	4'-0"[b]	4'	240-3 ϕ	2 #6 1 #10	1"	60A	846.00	848.50	849.50	—	850.00	10'	25	26'	2	—	2"	50	12"	2"	1" MIN.	6.5'

NOTE[a]: VALVE PIT SHALL BE ADJUST TO ROAD GRADE AND SHALL HAVE ECCENTRIC FLAT TOP AND STANDARD MANHOLE LID AND FRAME.

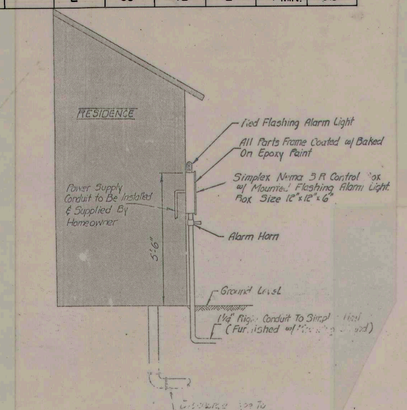
NOTE[b]: VALVE PIT FOR NE-MHP SHALL HAVE DOUBLE CHECK VALVE ASSEMBLIES FOR EACH PUMP. ONE CHECK VALVE MAY BE LOCATED AS PART OF THE TOTAL LIFT OUT PUMP ASSEMBLY.

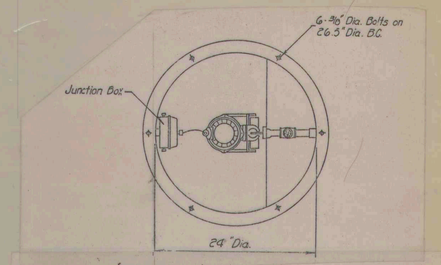


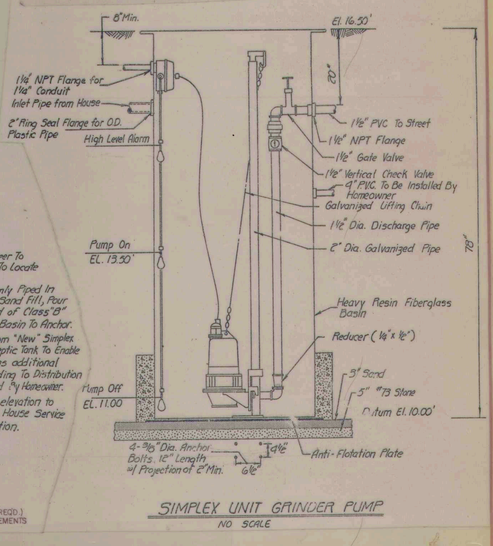
LIFT STATION
NO SCALE

** NOTE: WHEN FORCE MAIN PIPING SIZE IS LESS THAN 4" DIA., STATION PIPING SHALL BE THREADED GALVANIZED STEEL PIPE AND FITTINGS

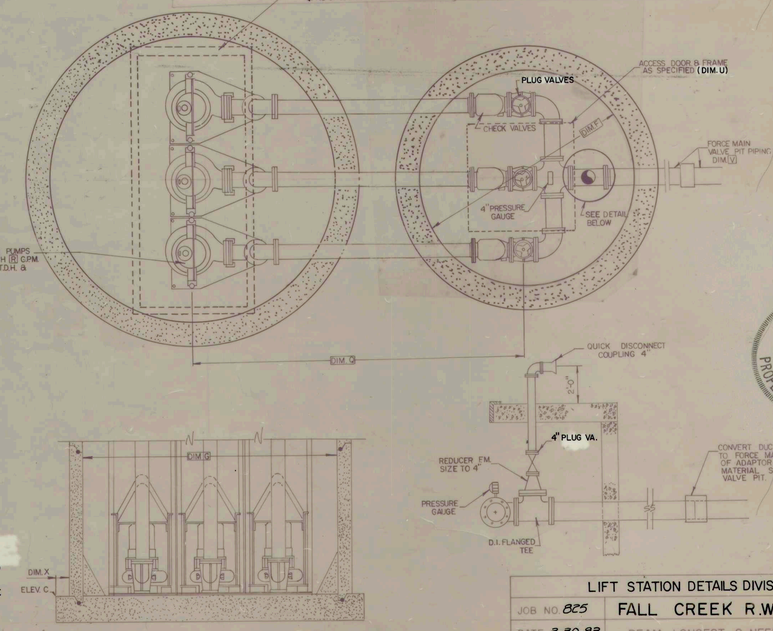
* NOTE: CHECK VALVE SHALL NOT BE INSTALLED IN VALVE PIT IN GRINDER PUMP STATIONS THAT INCLUDE A CHECK VALVE AS PART OF THE TOTAL LIFT OUT PUMP ASSEMBLY







SIMPLEX UNIT GRINDER PUMP
NO SCALE



TRIPLEX SUBMERSIBLE LIFT STATION
NO SCALE

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

LIFT STATION DETAILS DIVISION "B"		
JOB NO. 825	FALL CREEK R.W.D.	SHEET NO.
DATE 3-30-83	BEAM, LONGEST, & NEFF INC.	68
DR. BY G.D.	CONSULTING ENGINEERS 8136 CASTLETON ROAD INDIANAPOLIS, INDIANA	
CERTIFIED BY E.R.		

Div B

68

RECORD DRAWING

29+27.21 Line "R"

20+85.20 Line "R"

NO. 234 ELEV. 832.83

NO. 235 ELEV. 849.11

NO. 238 ELEV. 855.27

Ex. 18"

Ex. 24" ?

Ex. 20" By-Pass (To Be Abandoned)

Ex. 4" Force Main

Ex. 18" San.

Ex. 18" (Abandon)

Ex. Primary Clorifier (To be Abandoned) by Others

Bar Screen Structure to Remain. See Sht. 71

Temp. Esmt. for Constr.

Ex. Grit Removal Tank (To be Abandoned) By Others

Ex. 24" ?

2"W ?

MH (R2) 29+92, 53' Lt. Cut in New Manhole Over Ex. 18" Conc. @ Inv. 834.9± Plug (18" To North El. 834.20 "SW"

Ex. 8" San.

Ex. 16"

Perm Esmt.

MH (R3) Sta. 29+08, 98' Lt. El. 840.50 "NE" El. 838.00 "SE"

El. 842.50±

26' ± of 12" @ 8.35%

New 2" Gate Valve

Place 8" Compacted No. 53's

New 8" DI ?

Ex. Lab & Control Bldg.

New 12" San. @ 3.25% 82'

Slope

18" S

18" @ 0.16%

MH (R-1) 29+92, 71' Lt. El. 834.17 "NE" El. 834.10 "SW" El. 836.00 "W"

Ex. 18" Backwash Waste Line

New 18" San. Sewer @ 0.40% (57')

New Metering Manhole Sta. 25+80, 100' Lt. See Detail on Sht. 76

Temp. Esmt. for Constr.

Perm. Esmt.

Remove Ex. 16" Piping & Valves in This Area Plug Necessary Holes in Structures w/ Non-Shrink Grout.

Surge Holding Tank (Ex. Trickling Filter)

Connect New 1½" to Ex 2" Water Line - 40' from Bldg.

29+42, 125' Lt.

New 12" DI

Slope

Place 8" Compacted No. 53's

New 1½" Service Water Line

4" Conc. Pad

New 24" 6.17 ?

New 24" San (23')

MH (24)

29+16, 133' Lt. Line "A"

New Pump Station

Transformer Cabinet

8"

25+98, 157' Lt. Line "A"

Not Included in Yard Piping

Perm. Esmt.

MH (23) Sta. 25+72, 124' Lt. El. 833.80 "NE" El. 833.29 "NW"

New 18" Force Main See Sht. 40

MH (22) 25+90, 136' Lt. El. 833.09 "NW" El. 833.90 "NE" El. 833.20 "E" El. 835.08 "SW"

MH (20)

Underground Power 3-Wire Buried 3' Deep

Ex. Flow Diversion Box

Temp. Esmt. for Constr.

Ex. 16"

Perm. Esmt.

Ex. 6"

10" Force Main From Pendleton (200 p.s.i. Min.) Not Included in Yard Piping

200'

Ex. 6"

Perm. Esmt.

Ex. 6" Tank Drain

To Fall Creek

Exist. Final Clorifiers & Chlorine Contact Tanks (To Be Abandoned) by Others

Ex. Anaerobic Digester (To be Abandoned) by Others

B-164

Ex. 12" ?

FOUNDATION

Ex. Sludge Drying Beds (To be Abandoned) by Others

Ex. Gravel Drive

Temp. Esmt. for Constr.

100'

85'

40'

110'

REVISED 3-19-84
CHANGED PERM. RW TO PERM. ESMT

LEGEND

- New Sanitary Sewer (Unit Price)
- New Sanitary Sewer w/ Manhole (Yard Piping)
- Existing San. Sewer
- Existing Yard Piping
- New Yard Piping
- Gravel Area
- Existing Water
- Existing Electrical (Buried)
- New Water
- New Construction
- Concrete
- New Contours
- Force Main

CONSTRUCTION NOTES

1. All Equipment, Piping, Valves, Removed in this Area To Remain The Property of the State of Indiana
2. The Sanitary Sewers Between & Including Manholes R-1, R2, R-3, 123 & Bar Screen Str. & All Work Associated With The Influent Bar Screen Structure. Shall Be A Separate Lump Sum Pay Item as "Reformatory Connection"

RECORD DRAWING

REFORMATORY SITE PLAN

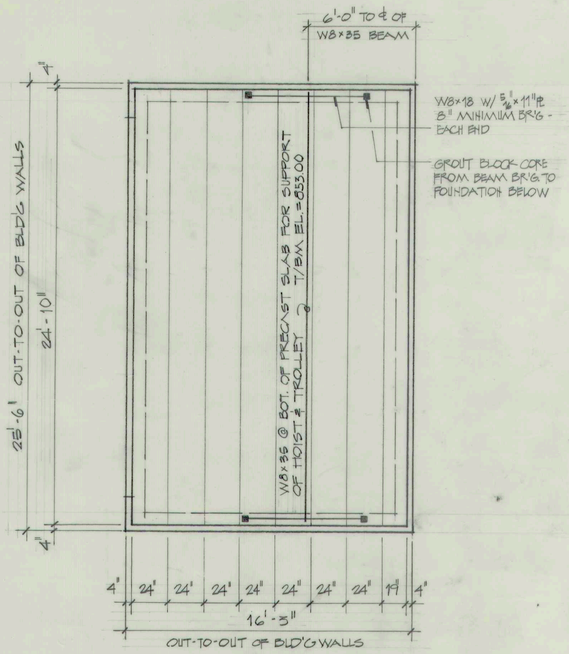
ERIC RESKE REGISTERED No. 13143 STATE OF INDIANA PROFESSIONAL ENGINEER 3-12-85

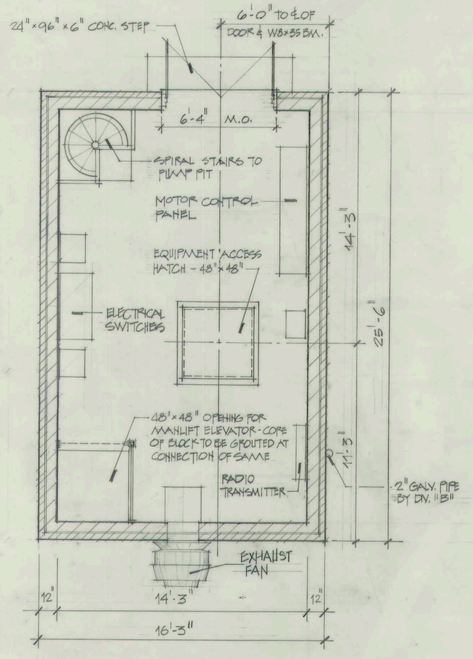
Scale 1" = 20'	FALL CREEK R.W.D.	Sheet
Drawn By J.B.	BEAM, LONGEST & NEFF	69
Designed By J.P.	Consulting Engineers 8136 Castleton Road Indianapolis In. 46250	
Certified By E.R.		

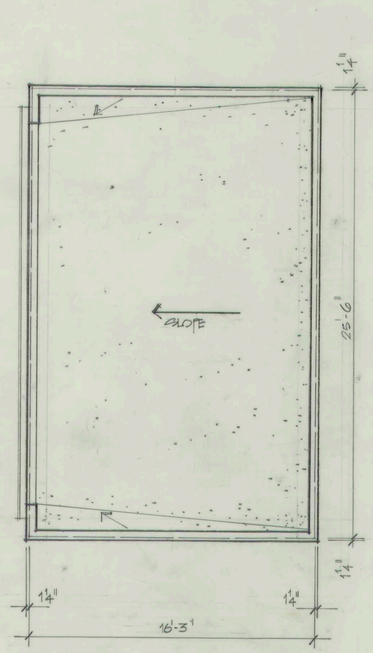
PHOTOGRAPHIC REPRODUCTION BY ACCU-AIR SURVEYS, INC., SEYMOUR, INDIANA

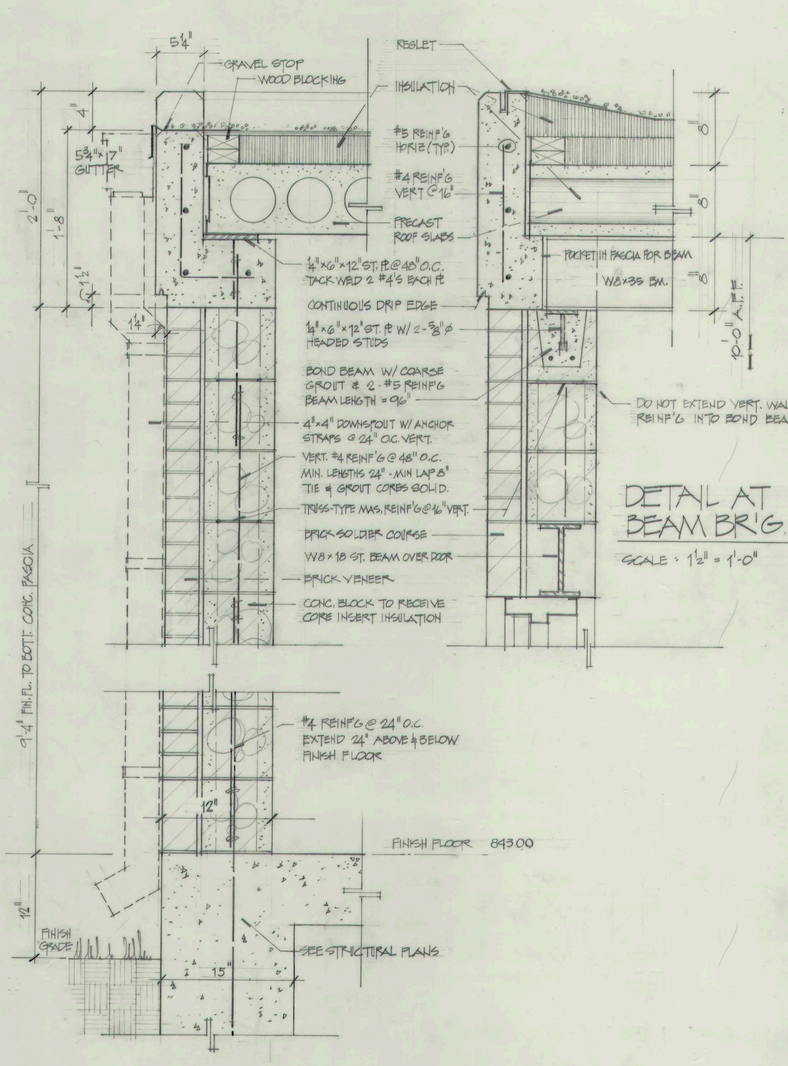
41

69









DETAIL AT BEAM BRG.

SCALE: 1½" = 1'-0"

ROOF FRAMING PLAN

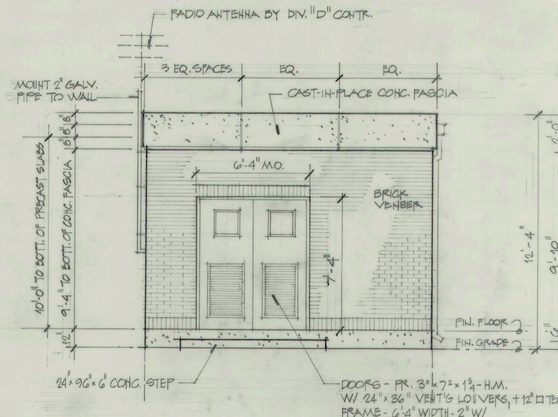
SCALE: ¼" = 1'-0"

FLOOR PLAN

SCALE: ¼" = 1'-0"

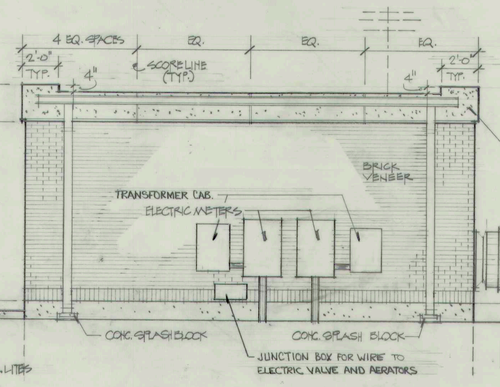
ROOF PLAN

SCALE: ¼" = 1'-0"



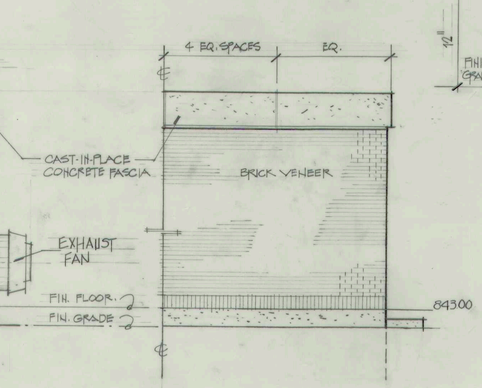
NORTH ELEVATION

SCALE: ¼" = 1'-0"
SOUTH ELEV. SIMILAR



WEST ELEVATION

SCALE: ¼" = 1'-0"



PARTIAL EAST ELEVATION

SCALE: ¼" = 1'-0"

TYPICAL SECTION

SCALE: 1½" = 1'-0"

INTERIOR FINISH NOTE: EXPOSED CONC. SLAB CEILING TO BE PAINTED.
WALLS TO BE PAINTED.
FLOORS TO BE EXPOSED CONC. W/ SEALER.
NO BASE MOLDING IS REQ'D.

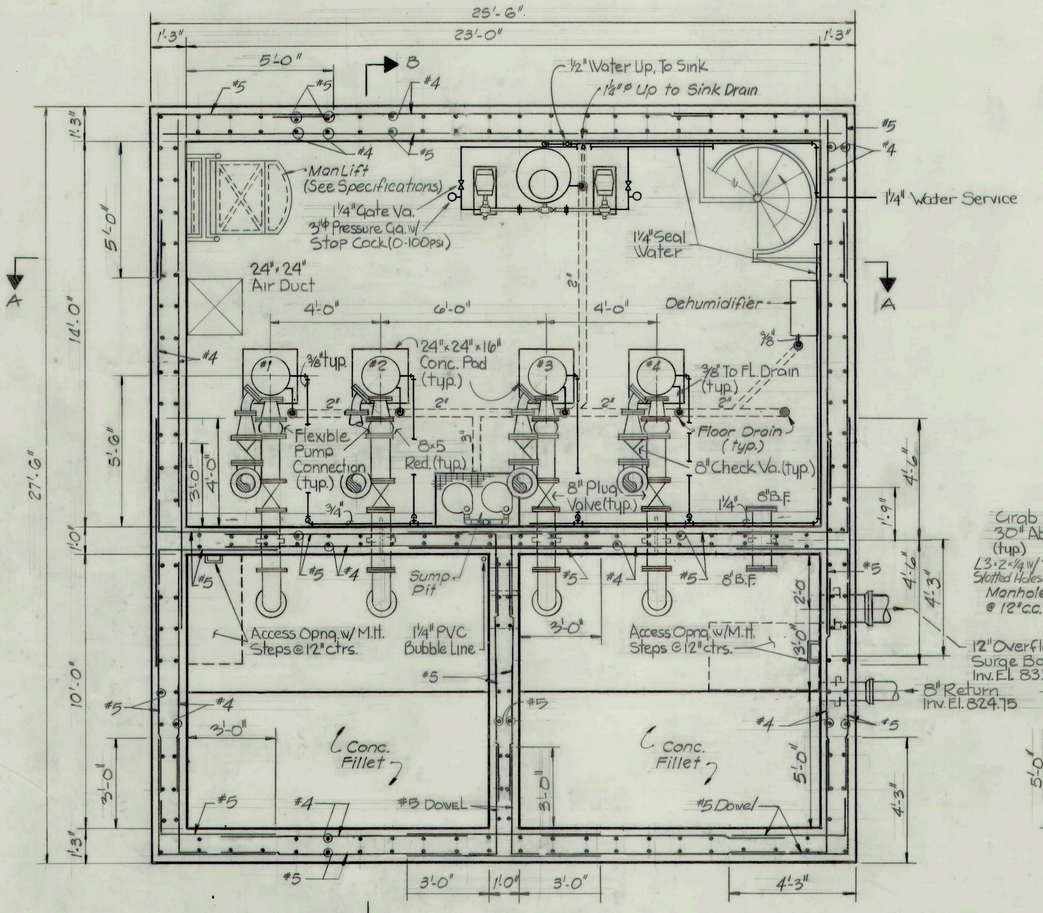
RECORD DRAWING

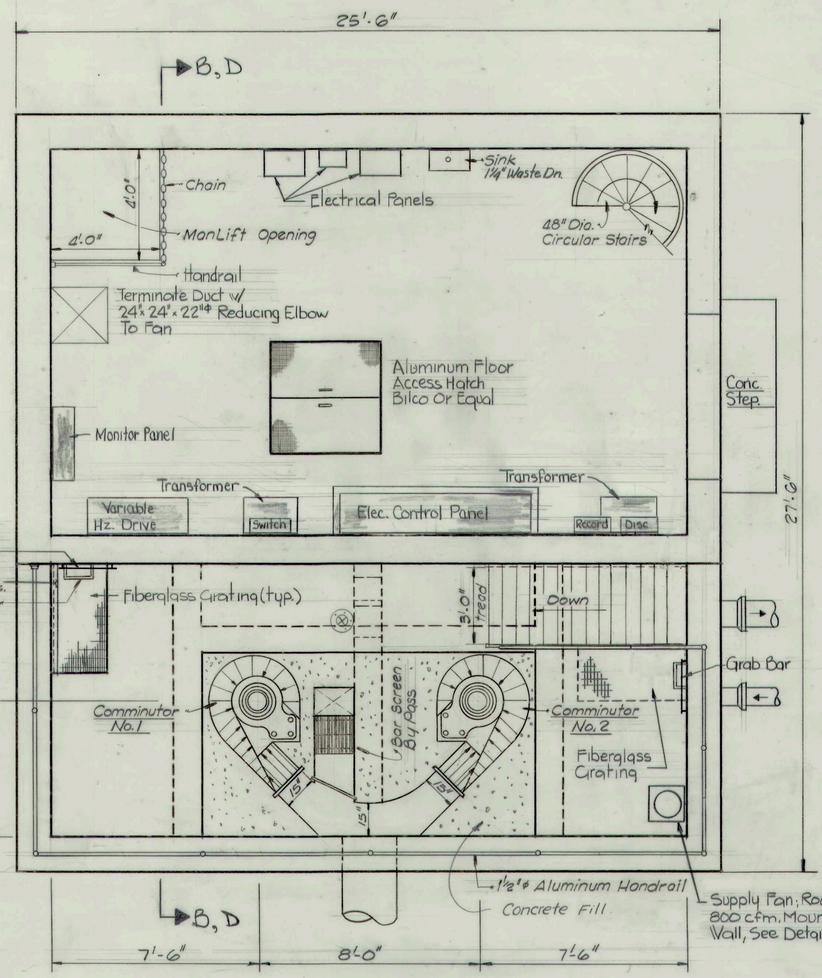
ERIC RESKE — REGISTERED — No. 13442 — 3-30-83 — STATE OF INDIANA — PROFESSIONAL ENGINEER

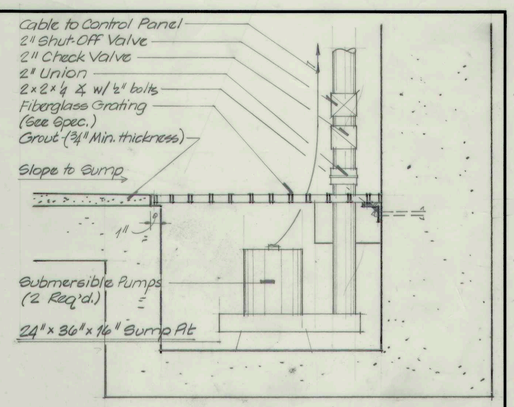
REFORMATORY LIFT STATION BUILDING

Scale: AS NOTED	FALL CREEK R.W.D.	Sheet
Drawn By: DMW	BEAM, LONGEST & NEFF	70
Designed By: J.P.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

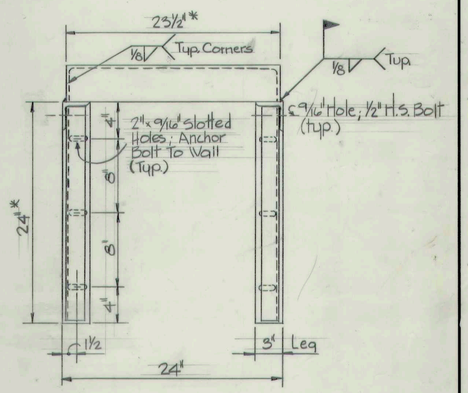
MARBAUGH N26008

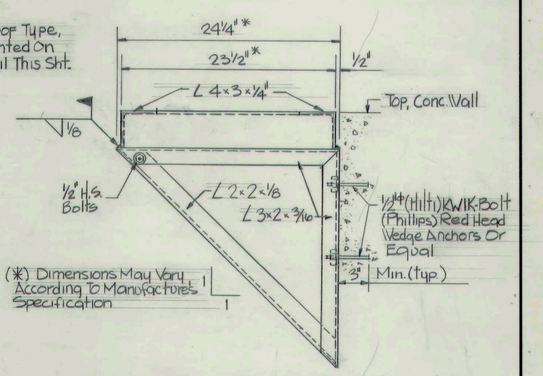




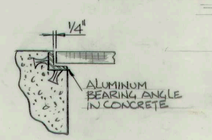


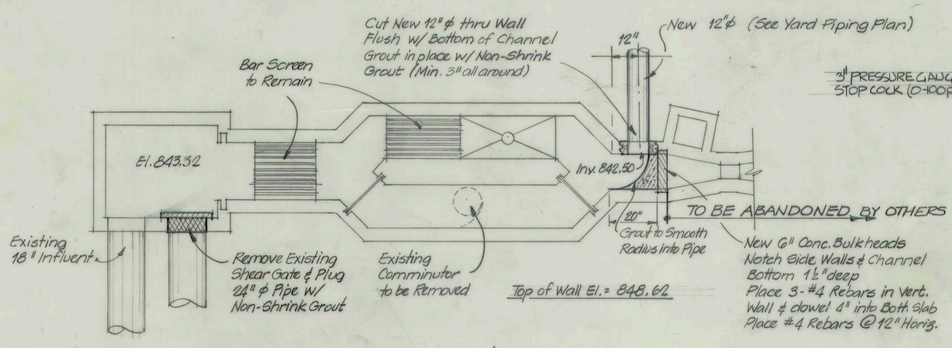
SUMP PIT DETAIL
Not to Scale



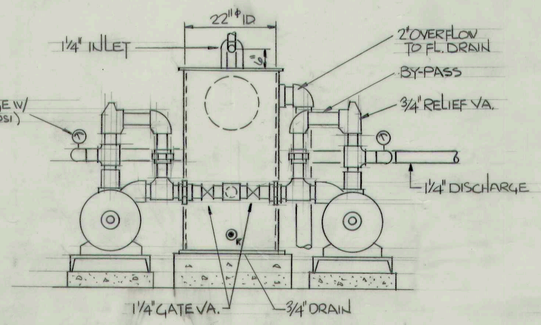


WALL BRACKET FOR SUPPLY VENTILATOR
No Scale



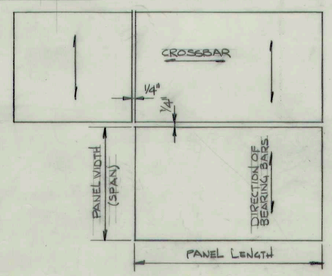


REFORMATORY INFLUENT STRUCTURE MODIFICATION
Not to Scale



WATER SEAL SYSTEM
No Scale

NOTES:
1. CONTRACTOR SHALL FURNISH CUT-OUTS WHEREVER REQUIRED EVEN IF NOT SHOWN ON PLANS.
2. LARGE CUT-OUTS SHALL HAVE STRUCTURAL SUPPORT.
3. LARGEST RECOMMENDED SPAN @ 1/4" DEFLECTION 100 LBS/FT. UNIFORM LOAD FOR SPECIFIED GRATING SHALL NOT BE SURPASSED FOR LARGER SPANS. CONTRACTOR SHALL FURNISH ADDITIONAL SUPPORT FOR LARGER SIZE GRATING AT NO EXTRA COST.
4. GRATING SHALL BE REINFORCED FIBERGLASS, CHEMGRATE OR EQUAL.



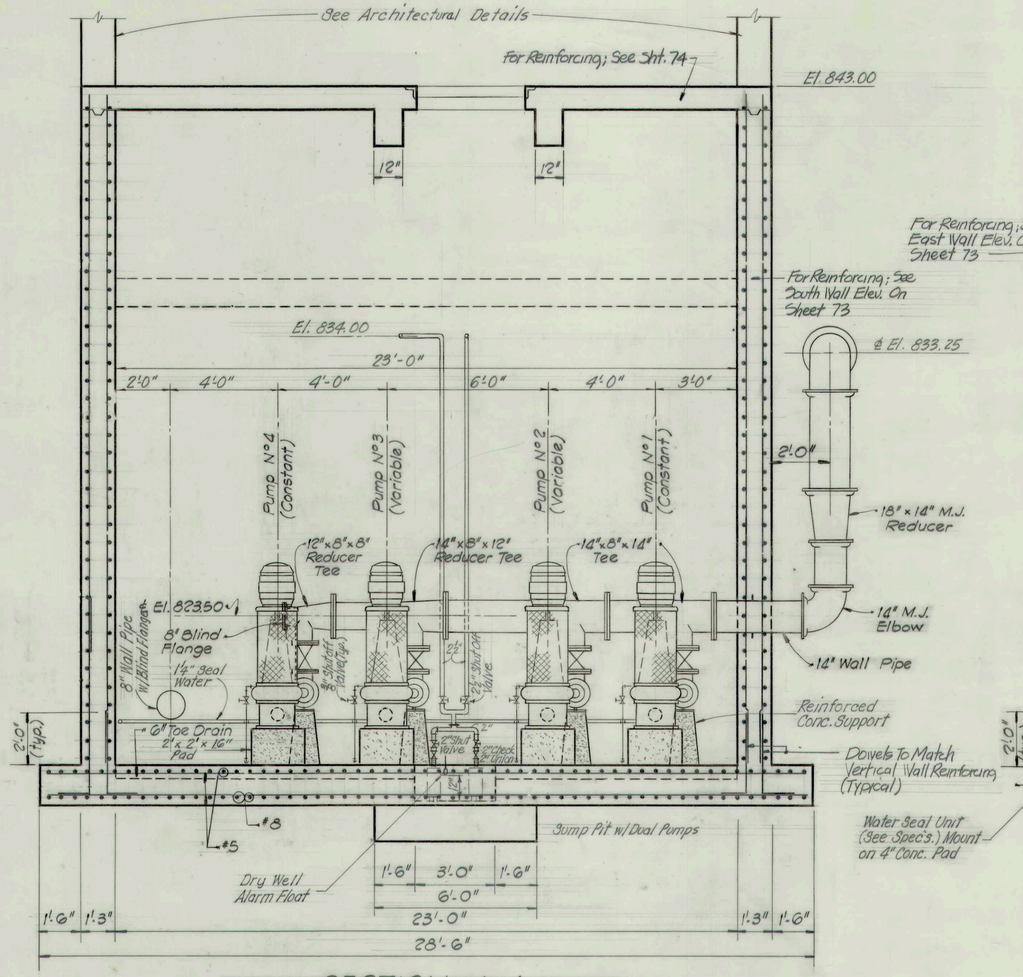
GRATING DETAILS & NOTES

RECORD DRAWING

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 3-30-83

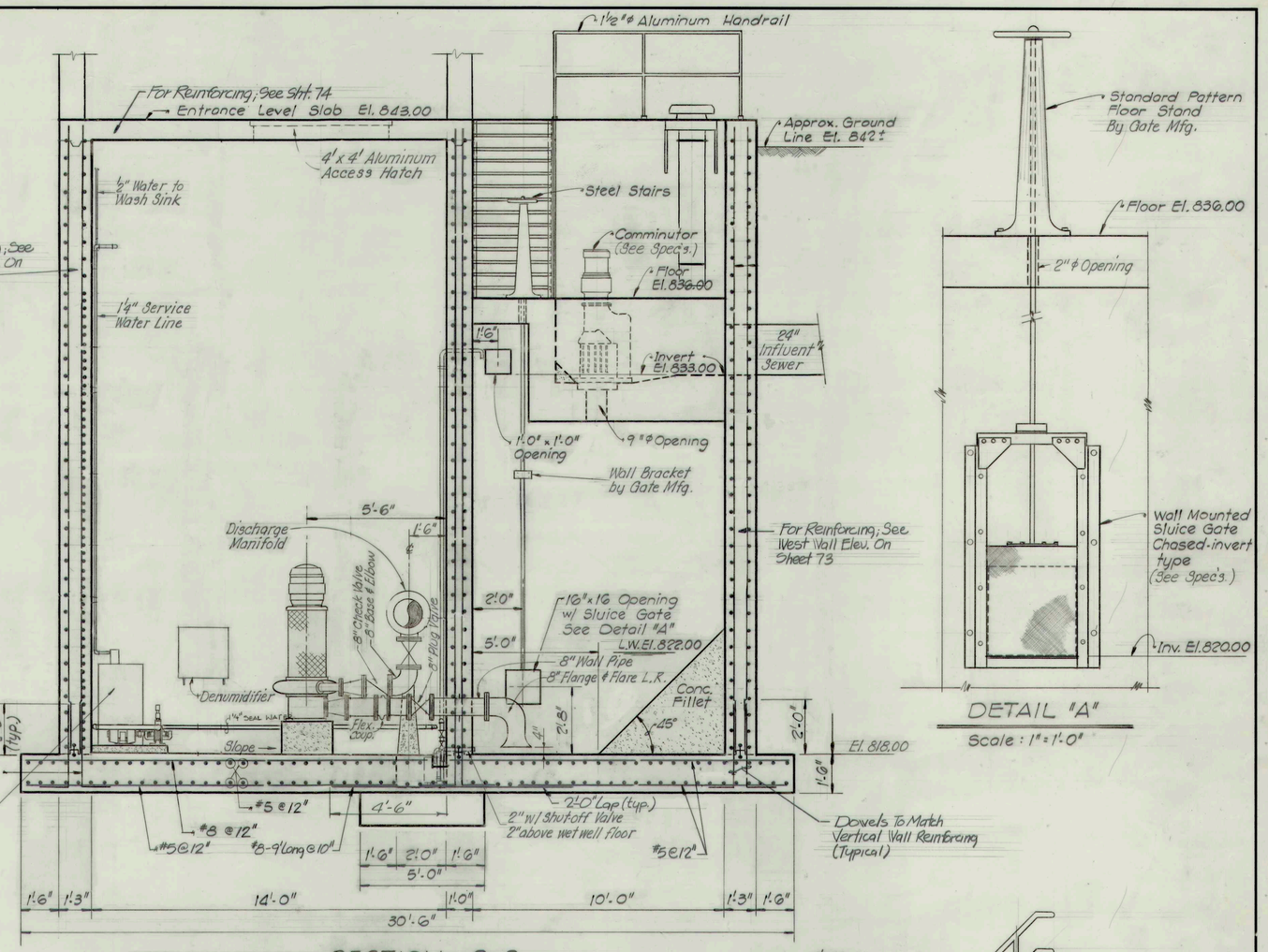
REFORMATORY LIFT STATION STRUCTURAL AND DETAILS		
Scale: As Noted	FALL CREEK R.W.D.	Sheet 71
Drawn By: RDG	BEAM, LONGEST & NEFF	
Designed By: RFS JP	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MARBAUGH N26008



SECTION A-A

Scale : 3/8" = 1'-0"

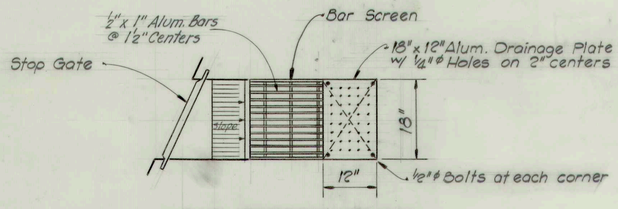


SECTION B-B

Scale : 3/8" = 1'-0"

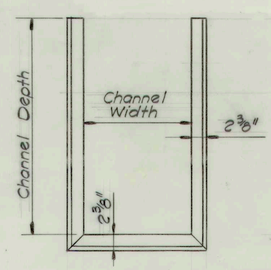
DETAIL "A"

Scale : 1" = 1'-0"

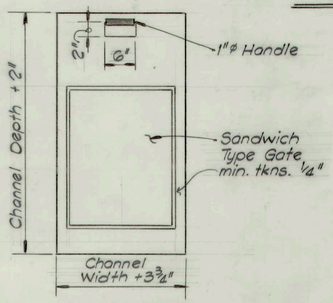


BAR SCREEN - PLAN

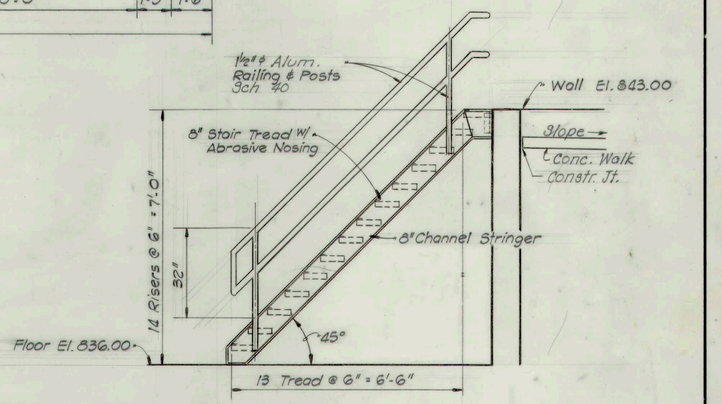
BY-PASS



GUIDE FRAME



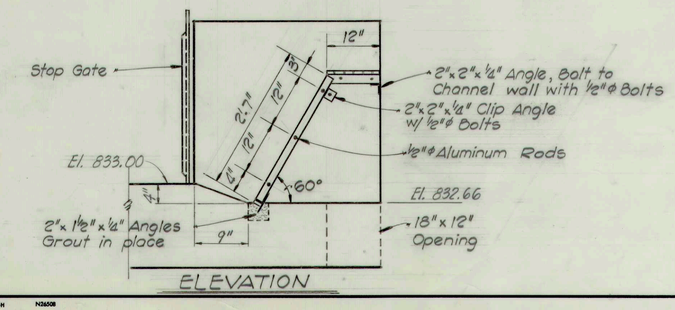
STOP GATE



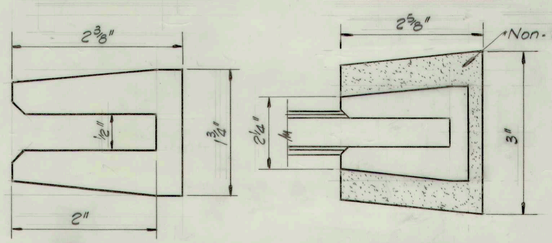
STAIR DETAILS

Scale : ½" = 1'-0"

NOTE :
STAIRS TO BE ANCHORED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.



ELEVATION



GUIDE KEYOUT

FIBERGLASS STOP GATE DETAILS

No Scale

RECORD DRAWING

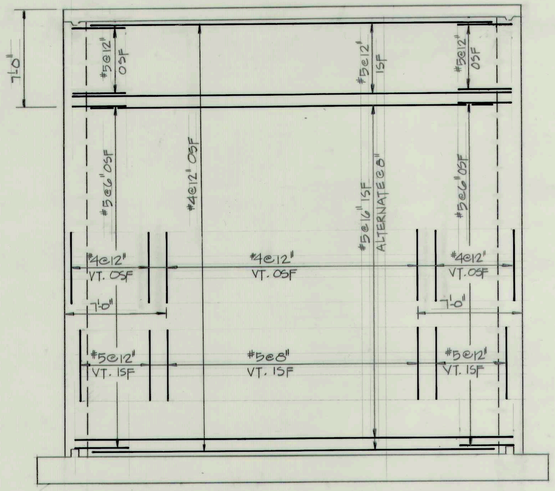
ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

REFORMATORY MAIN LIFT STATION
SECTIONS & MISCELLANEOUS DETAILS

Scale: As Noted	FALL CREEK R.W.D.	Sheet
Drawn By: D.G.	BEAM, LONGEST & NEFF	72
Designed By: R.E.S. J.P.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

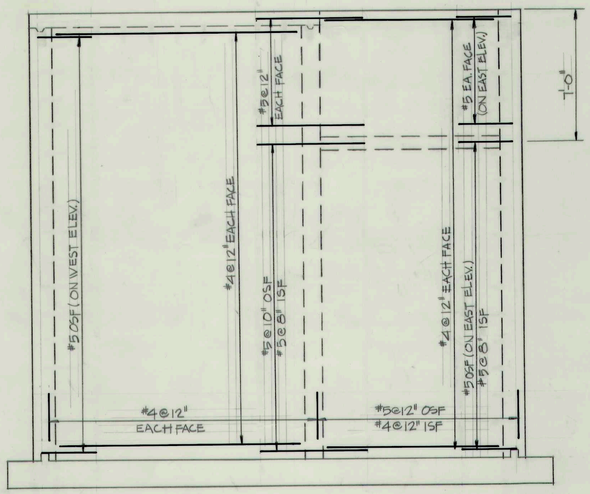
MARBAUGH N26508

Rev. 11-7-83



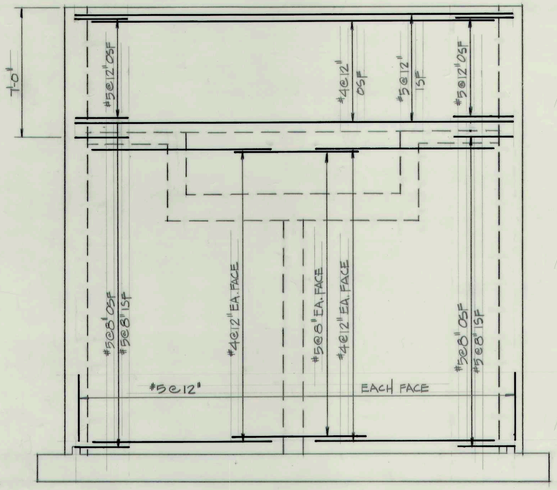
WEST WALL ELEVATION

SCALE 1/4" = 1'-0"



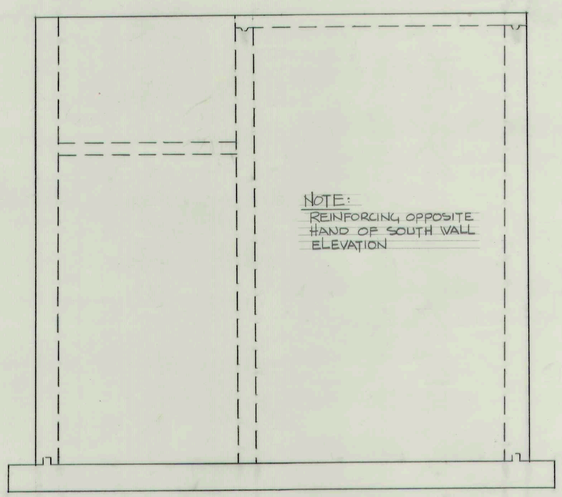
SOUTH WALL ELEVATION

SCALE 1/4" = 1'-0"



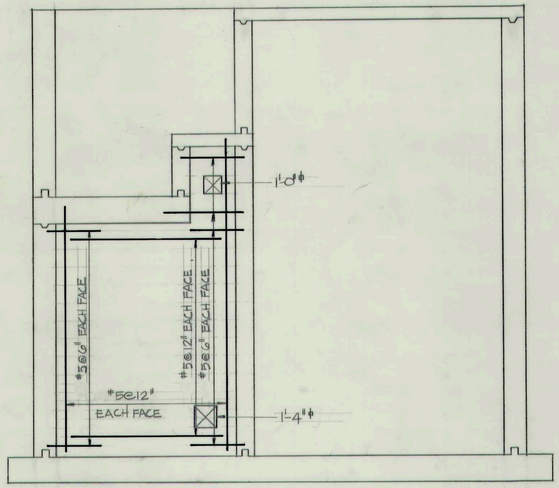
EAST WALL ELEVATION

SCALE 1/4" = 1'-0"



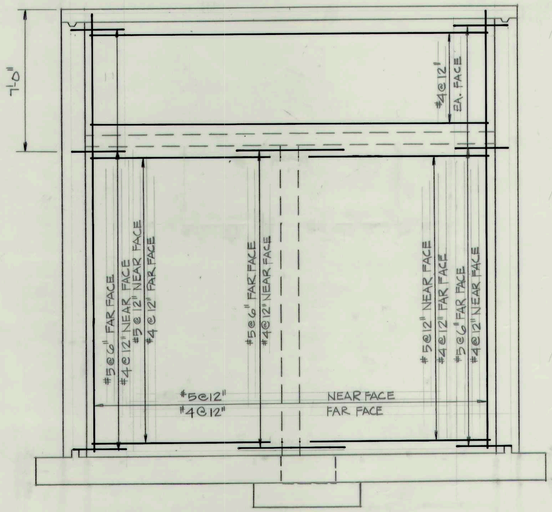
NORTH WALL ELEVATION

SCALE 1/4" = 1'-0"



INTERIOR WALL, LOOKING SOUTH

SCALE 1/4" = 1'-0"



INTERIOR WALL, LOOKING EAST

SCALE 1/4" = 1'-0"

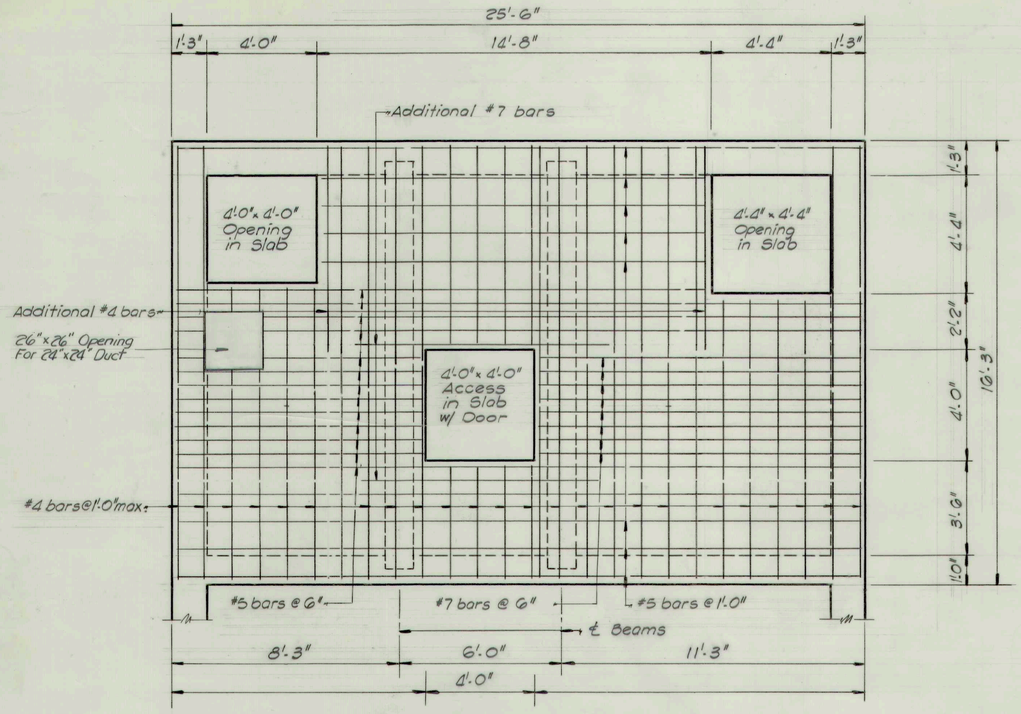
RECORD DRAWING

ERIC RESKE REGISTERED ER No. 13442 STATE OF INDIANA 3-30-83 PROFESSIONAL ENGINEER

REFORMATORY LIFT STATION
STRUCTURAL ELEVATIONS

Scale: AS NOTED	FALL CREEK R.W.D.	Sheet 13
Drawn By: Gulley	BEAM, LONGEST & NEFF	
Designed By: R.V.	Consulting Engineers	
Certified By: ER	8136 Castleton Road Indianapolis In. 46250	

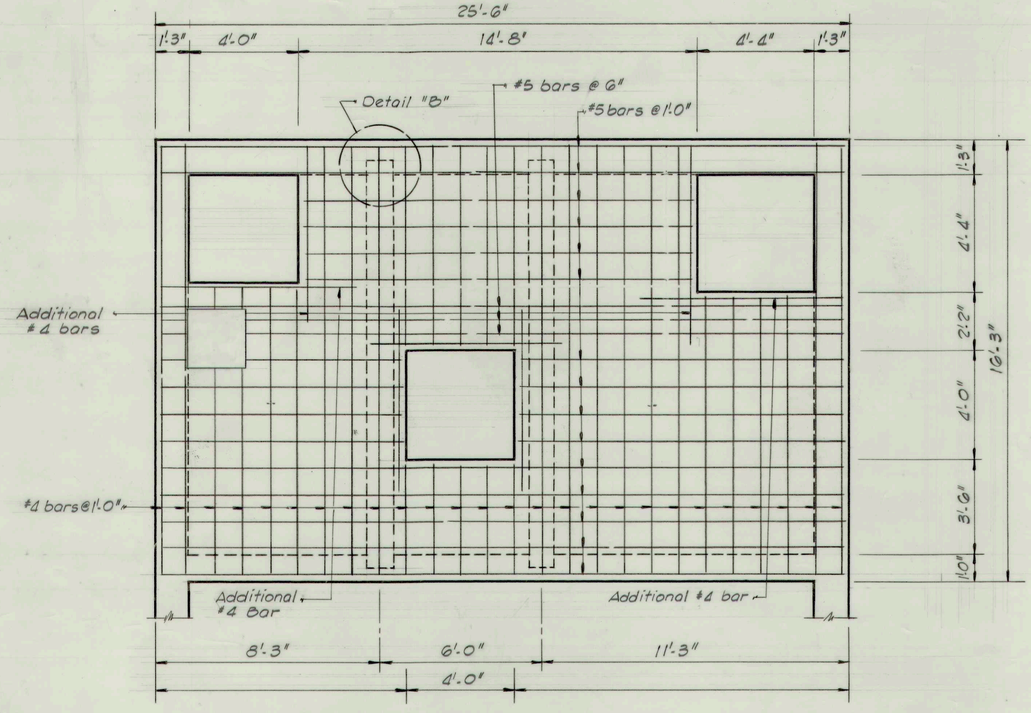
MABAUGH N26508



ENTRANCE LEVEL SLAB PLAN

SHOWING BOTTOM REINFORCING

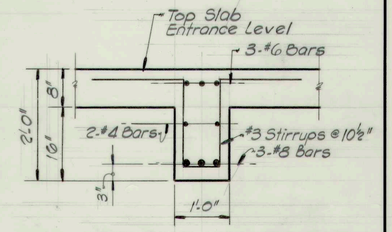
Scale : 3/8" = 1'-0"



ENTRANCE LEVEL SLAB PLAN

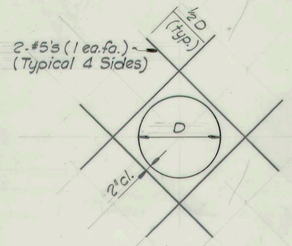
SHOWING TOP REINFORCING

Scale : 3/8" = 1'-0"



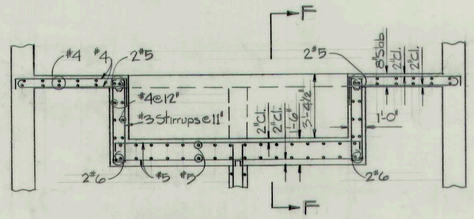
TYPICAL BEAM SECTION

Scale : 3/4" = 1'-0"



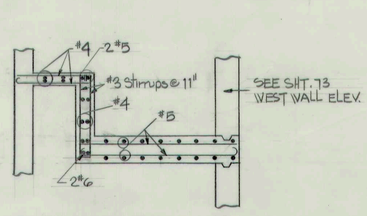
TYPICAL WALL OPENING REINFORCING DETAIL

No Scale



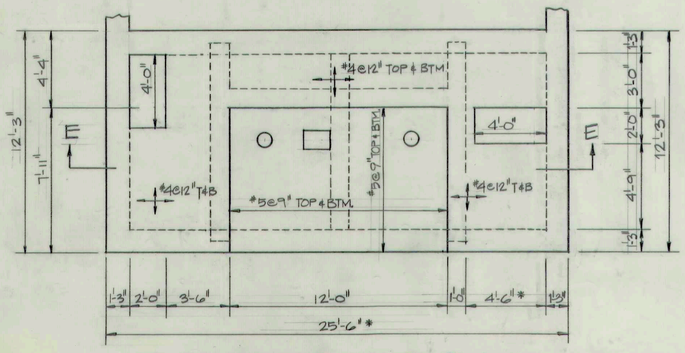
SECTION E-E

SCALE 1/4" = 1'-0"



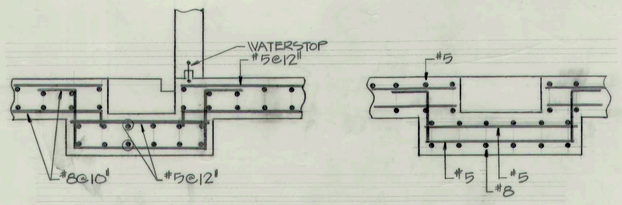
SECTION F-F

SCALE 1/4" = 1'-0"



COMMINUTOR SLAB PLAN

SCALE 1/4" = 1'-0"

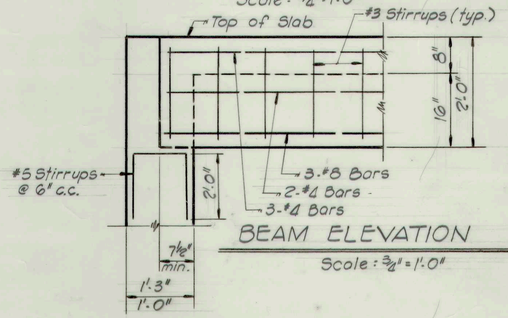


SUMP PIT SECTIONS

SCALE 3/8" = 1'-0"

DETAIL "B"

Scale : 3/4" = 1'-0"



BEAM ELEVATION

Scale : 3/4" = 1'-0"

RECORD DRAWING

REV. 12-2-84 * DENOTES DIMENSIONS INCREASED BY 6" RLJ

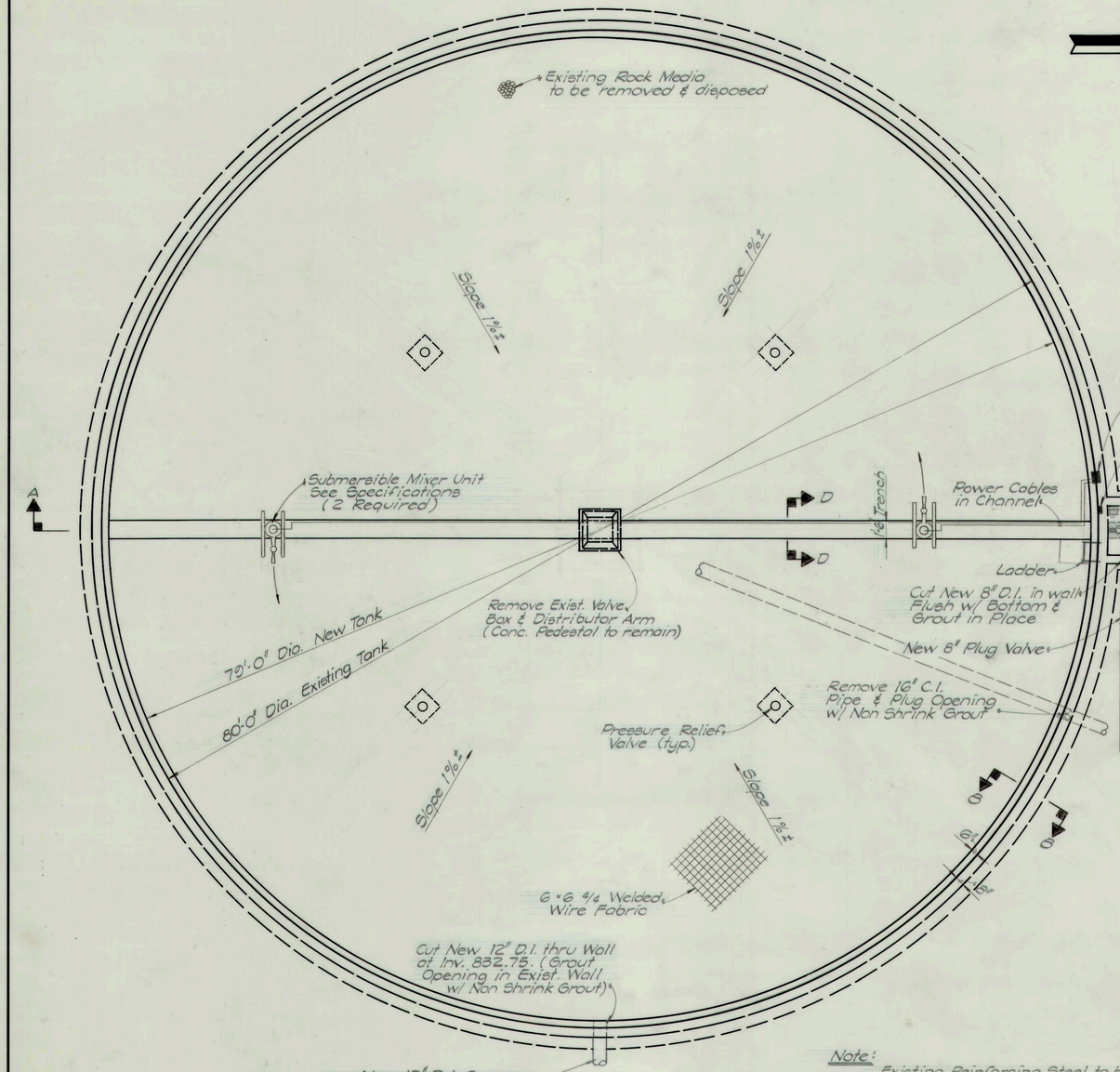
REV. 11-4-83 DUCT OPENINGS, RE-BAR

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

REFORMATORY LIFT STATION STRUCTURAL AND DETAILS

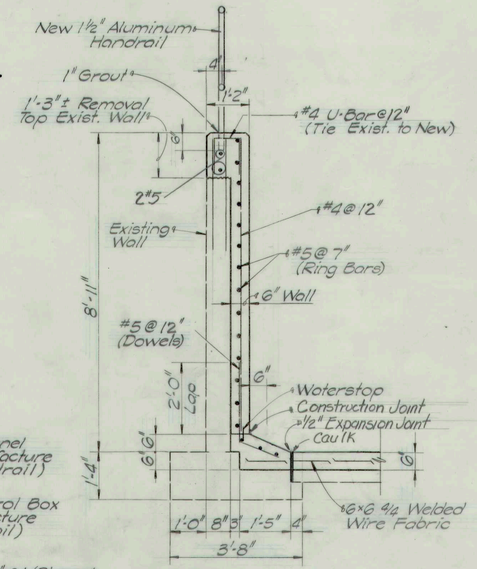
Scale: As Noted	FALL CREEK R.W.D.	Sheet
Drawn By: D.G.	BEAM, LONGEST & NEFF	74
Designed By: R.F.S.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MARBAUGH N26008

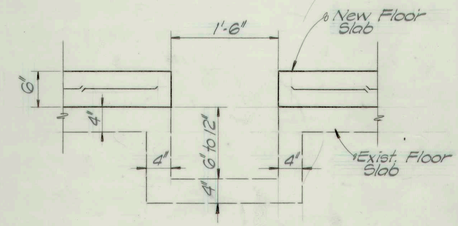


PLAN
Scale: 3/16"=1'-0"

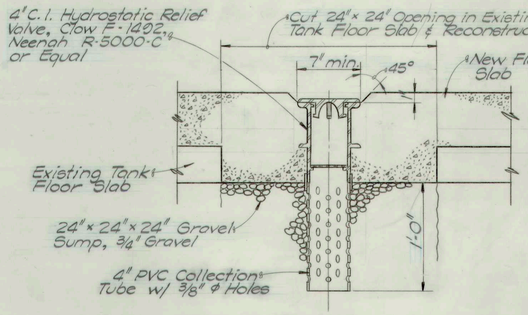
Note:
Existing Reinforcing Steel to be straightened and cleaned as required



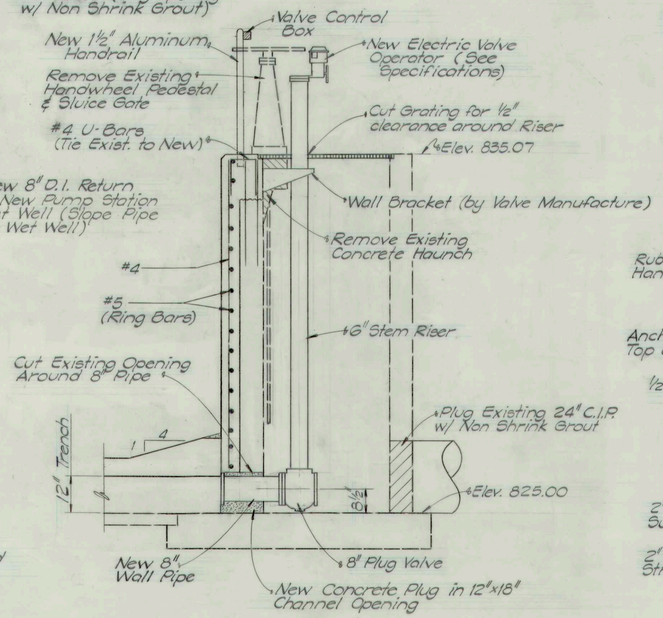
SECTION B-B
Scale: ½"=1'-0"



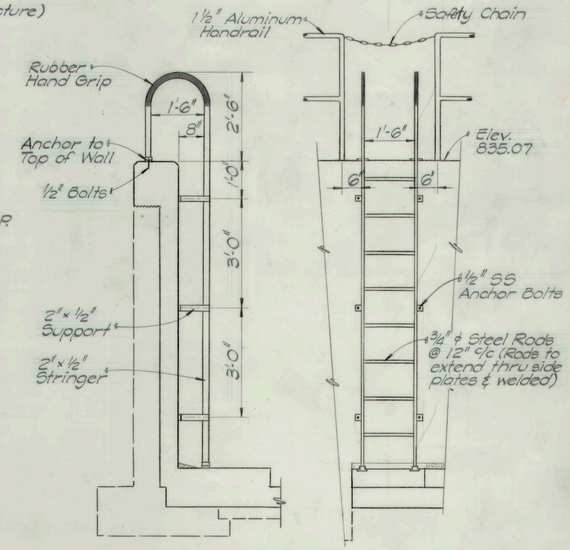
SECTION D-D
Scale: 1"=1'-0"



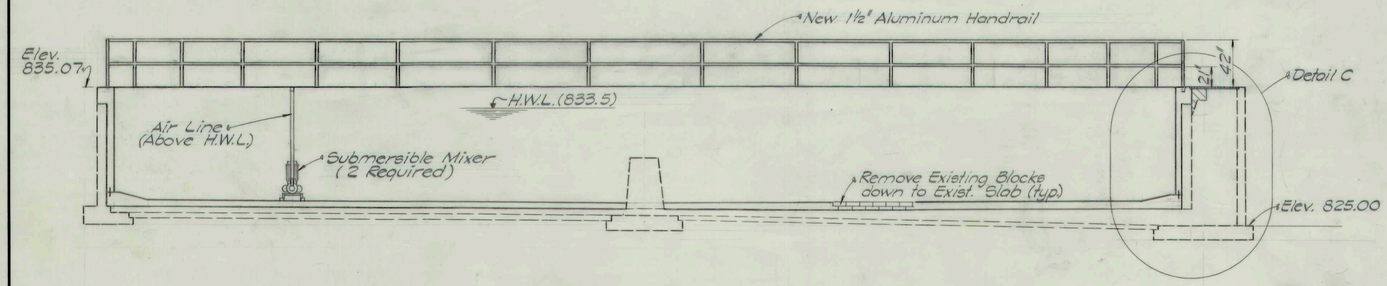
PRESSURE RELIEF VALVE DETAIL
4 Req'd.



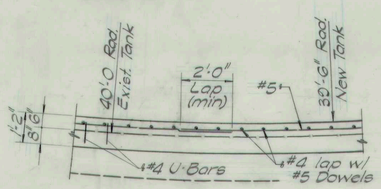
DETAIL C
Scale: ½"=1'-0"



LADDER DETAILS
Scale: ½"=1'-0"



SECTION A-A
Scale: 3/16"=1'-0"



PARTIAL PLAN
Scale: 3/8"=1'-0"

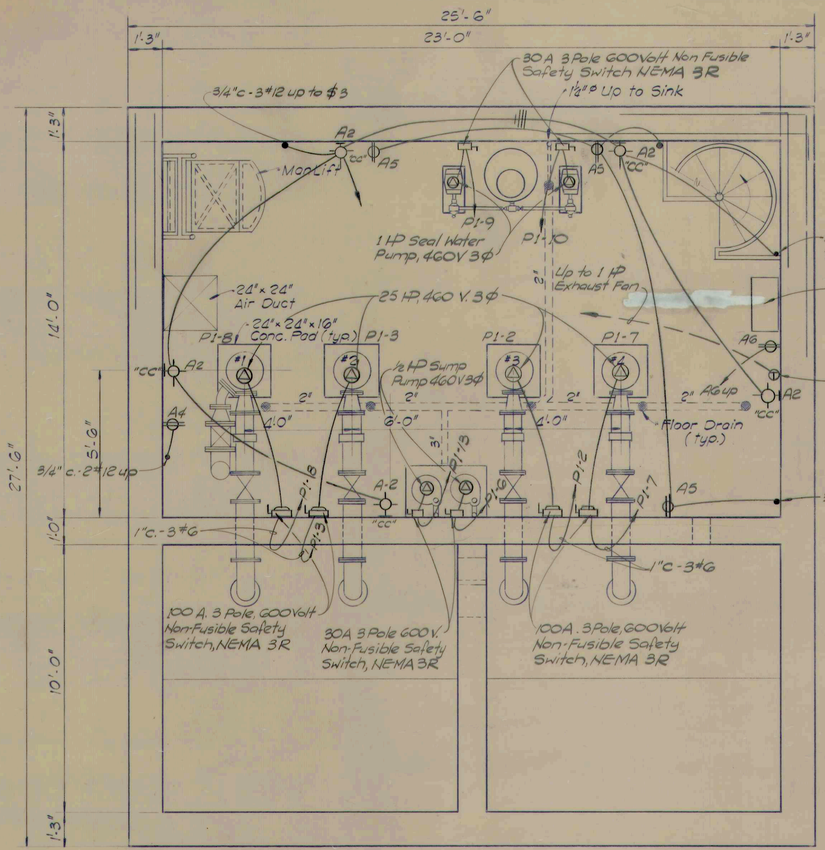
RECORD DRAWING

SURGE HOLDING TANK
(EXIST. REFORMATORY TRICKLE FILTER)

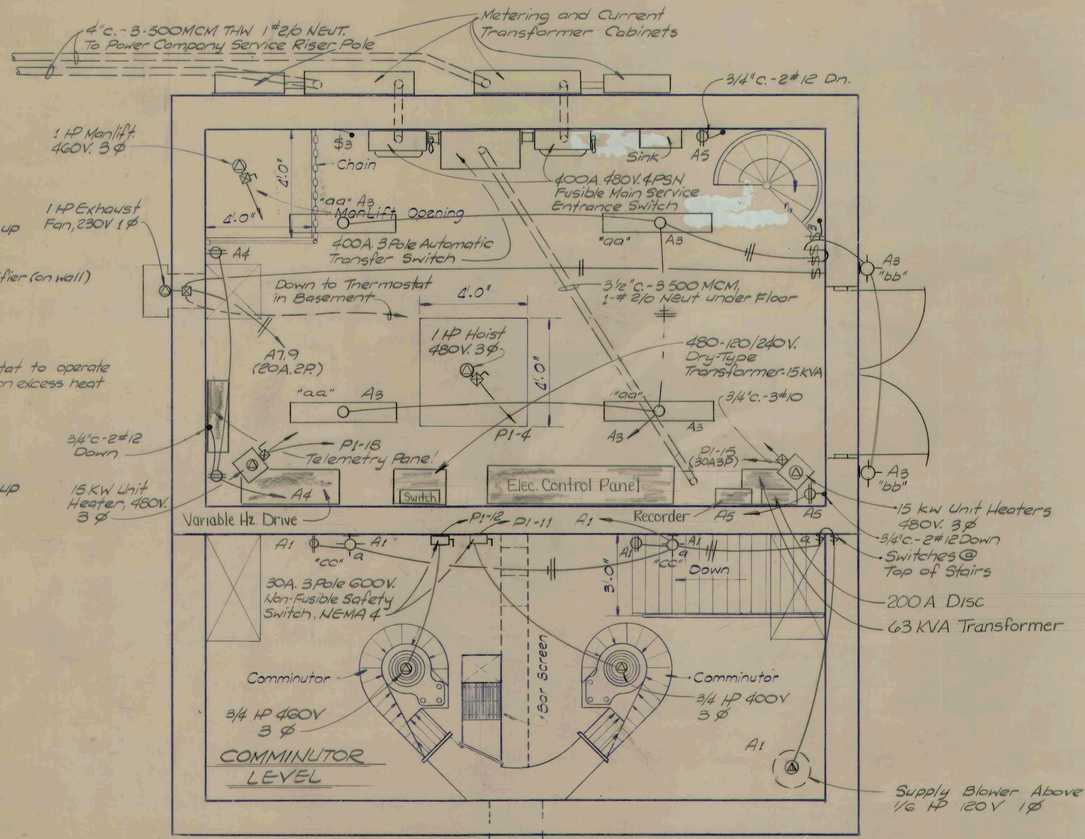
ERIC RESKE REGISTERED No. 13442 3-30-83 STATE OF INDIANA PROFESSIONAL ENGINEER

Scale: As Noted	FALL CREEK R.W.D.	Sheet
Drawn By: D.G.	BEAM, LONGEST & NEFF	75
Designed By: R.F.S. J.P.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MAIBAUGH N26508

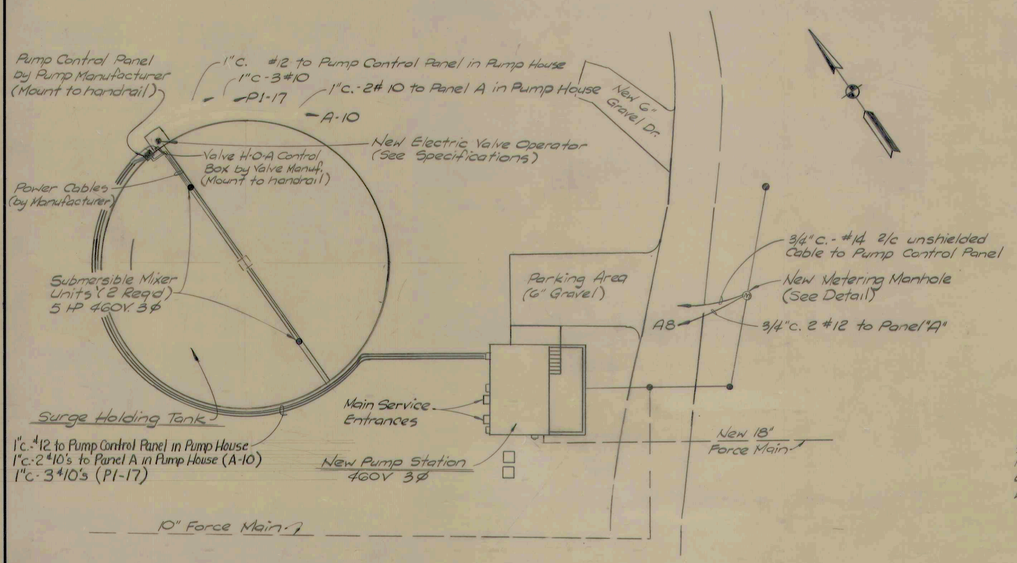


DRY PIT ELECTRICAL FLOOR PLAN
Scale 3/8"=1'0"

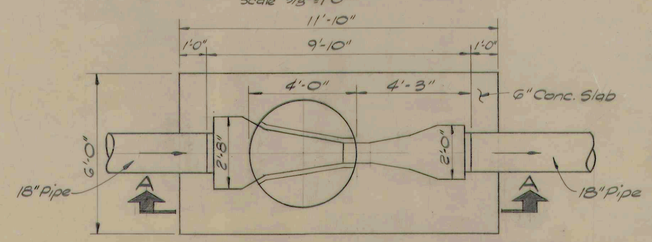


COMMINUTOR LEVEL

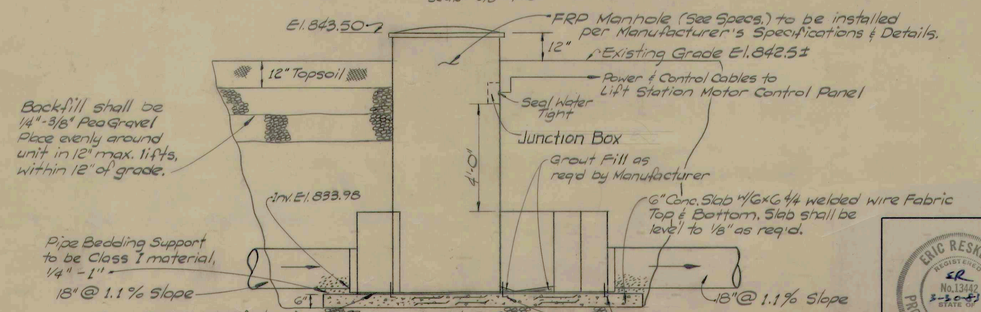
MAIN FLOOR & COMMINUTOR LEVEL ELECTRICAL PLAN
Scale 3/8"=1'0"



SITE PLAN
Scale 1"=20'



METERING MANHOLE PLAN
Scale: 3/8"=1'-0"



SECTION A-A
Scale 3/8"=1'-0"

RECORD DRAWING 3/30/83

ERIC RESKE REGISTERED No. 13042 STATE OF INDIANA PROFESSIONAL ENGINEER

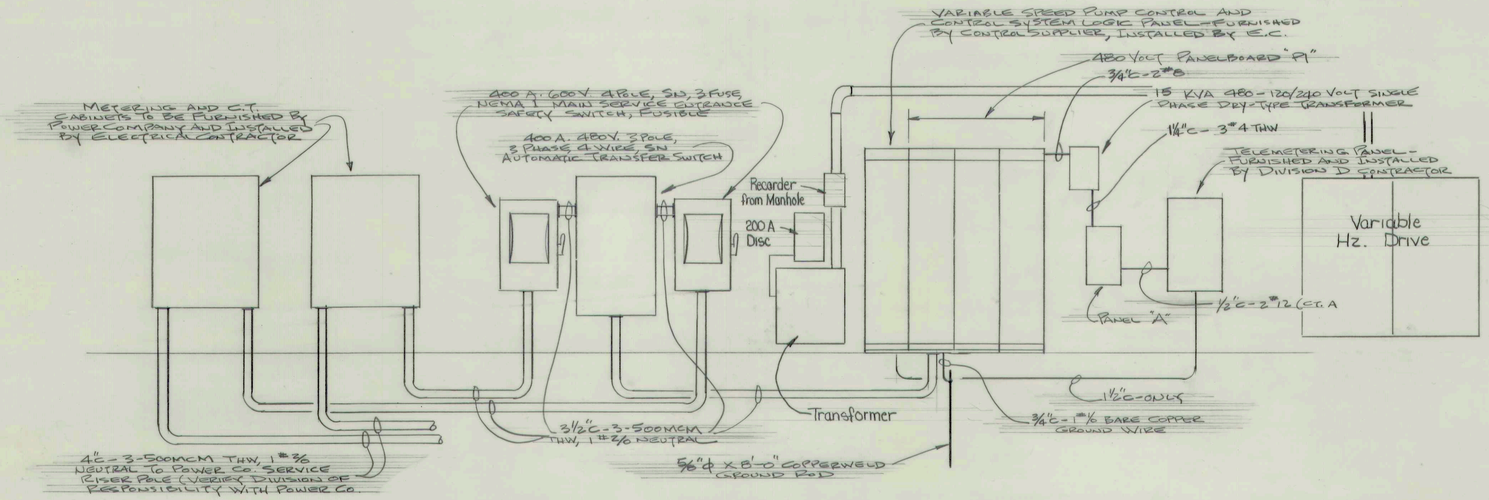
IRVIN H. HERMAN REGISTERED 7393 STATE OF PROFESSIONAL ENGINEER

REFORMATORY MAIN LIFT STATION ELECTRICAL PLANS & METERING MANHOLE DETAIL

Scale: As Shown	FALL CREEK R.W.D.	Sheet 76
Drawn By: VMS & J.B.	BEAM, LONGEST & NEFF	
Designed By: J.R.	Consulting Engineers 8136 Castleton Road Indianapolis In. 46250	
Certified By: E.R.		

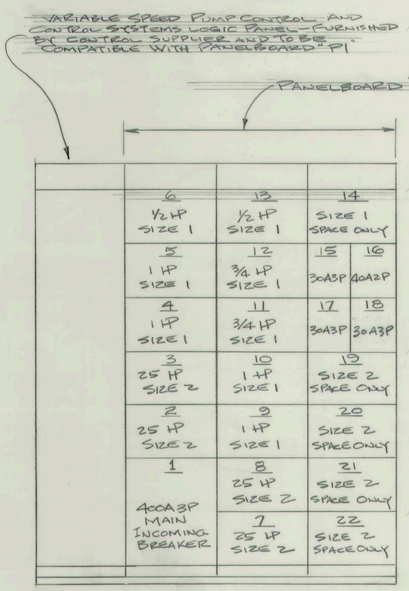
MABAUGH N26508

76

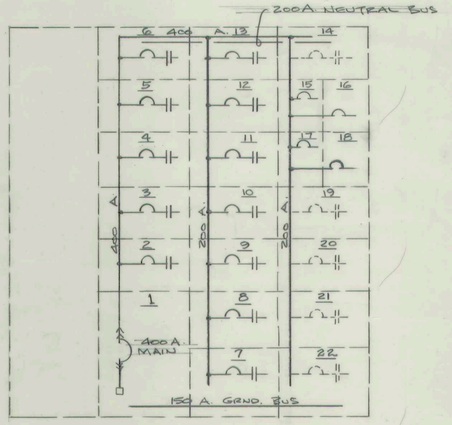


SCHEMATIC SERVICE RISER DIAGRAM

277/480 VOLT 3ϕ 4W WYE



FRONT VIEW



SCHEMATIC DIAGRAM

480 VOLT PANELBOARD "P1"

480 VOLT PANELBOARD "P1"

CIR. NO.	BRKR. SIZE	STARTER SIZE	BRANCH CIRCUIT CONDUIT	BRANCH CIRCUIT WIRE	SERVING	CONTROLS
1	400A3P	—	3½"C	3-500MCM, 1#2/0 NEUT.	MAIN BREAKER	—
2	80A3P	2	1"C	3#6	25 HP SEWAGE PUMP	HOA, P.B., PILOT LT.
3	80A3P	2	1"C	3#6	25 HP SEWAGE PUMP	HOA, P.B., PILOT LT.
4	15A3P	—	¾"C	3#12	1 HP HOIST	—
5	15A3P	—	¾"C	3#12	1 HP MAN LIFT	—
6	15A3P	1	¾"C	3#12	½ HP SUMP PUMP	HOA, P.B. PILOT LT.
7	80A3P	2	1"C	3#6	25 HP SEWAGE PUMP	HOA, PB. PILOT LT.
8	80A3P	2	1"C	3#6	25 HP SEWAGE PUMP	HOA, P.B. PILOT LT.
9	15A3P	1	¾"C	3#12	1 HP SEAL WATER PUMP	P.B., PILOT LT.
10	15A3P	1	¾"C	3#12	1 HP SEAL WATER PUMP	P.B. PILOT LT.
11	15A3P	1	¾"C	3#12	¾HP COMMINUTOR	P.B. PILOT LT.
12	15A3P	1	¾"C	3#12	¾HP COMMINUTOR	P.B. PILOT LT.
13	15A3P	1	¾"C	3#12	½ HP SUMP PUMP	HOA, P.B. PILOT LT.
14	—	1	—	—	SPACE ONLY	—
15	30A3P	—	¾"C	3#10	15 KW UNIT HEATER	—
16	40A2P	—	¾"C	2#8	480-120/240V XFORMER	—
17	30A3P	—	1"C	3#10	ASPIRATOR CONTROL PANEL	—
18	30A3P	—	¾"C	3#10	15 KW UNIT HEATER	—
19	—	2	—	—	SPACE ONLY	—
20	—	2	—	—	SPACE ONLY	—
21	—	2	—	—	SPACE ONLY	—
22	—	2	—	—	SPACE ONLY	—

NOTES:

1) IN ADDITION TO THE "HAND-OFF-AUTO", "START-STOP" PUSH BUTTONS AND PILOT LIGHT ALL MOTOR STARTER UNITS SHALL HAVE CONTROL TRANSFORMERS FOR 120V. CONTROL

RECORD DRAWING

IRVIN H. HERMAN REGISTERED 7393 STATE OF INDIANA PROFESSIONAL ENGINEER 8/30/83

ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 3-30-83

REFORMATORY WORKS ELECTRICAL

Scale: As Noted	FALL CREEK R.W.D.	Sheet 77
Drawn By: I.H.	BEAM, LONGEST & NEFF	
Designed By: I.H.	Consulting Engineers	
Certified By: E.R. I.H.	8136 Castleton Road Indianapolis In. 46250	

REFORM 2.5 DIV B

77 7E

SLUDGE DRYING BED TO BE (ABANDON)

SLUDGE DIGESTER (REMOVE)

EX. FENCE TO REMAIN IN PLACE

MILL ROAD

App. ℄

TOP WALL EL. 826.69 (EX.)
TOP TANK EL. 826.70 (EX.)
BOTT. TANK EL. 812.57 (EX.)

WET WELL TO BE (ABANDON)

AERATION TANKS

LAB. BLDG.

CHLORINE CHAMBER (ABANDON)

COMMUNUTOR (ABANDON)
BULKHEAD PIPES

(ABANDON)

12" ℄ "S" 821.41 (EX)
12" ℄ "SE" 821.41 (EX)
12" ℄ "W" 821.38 (EX)
12" ℄ "SW" 821.41 (PROP)

TOP WALL EL. 826.08 (EX.)

REPLACE EX. MH

12" SEWER

M.H. 1-36 (Replace)

BULKHEAD EX. 12" SEWER "SE" & "W"

Approx. Location of Exist. 2" Waterline

24" ℄ "E" 817.52 (PROP)
24" ℄ "S" 815.55 (PROP)

3+39 Taylor St. 215 Lt.

REMOVE EX. MH

10" SEWER

12" SEWER

REMOVE EX. MH

PROP. 12" SEWER

15" SEWER

124'-24" @ 2.00%

98'-12" @ 1.00%

TAYLOR STREET

REPLACE EX. MH
BULKHEAD EX. 12" SEWER "N.W."

12" SEWER

M.H. 4-1

Proposed 2" Waterline

5+00.00 TAYLOR ST.
10+00.00 MILL ST.

0+79.73 TAYLOR ST.
69+10.56 FALL CRK. BLVD.

FALL CREEK BLVD.

15' Perm. Easement

Control Panel

PROPOSED ASPHALT ENTRANCE

600A Double Throw Service Ent. Switch

10" GATE VALVE

Control Cable "A"

Control Cable "B"

3" ℄ PVC FORCE MAIN (SDR 21)

Sta. 3+05 Taylor St. 64' Lt.

4'-0" DIA. PRECAST MANHOLE WET WELL

STONE FILL

PLUG

PROP. 10" DIA. FORCE MAIN

1 c. 6#10 TW to Control Panel "B"

3/4" c. - 2#12 to 20A 1 p breaker in Control Panel "A"

150 Watt HPS Fixture on 20' Wood Pole Similar to G.E. M400A W/120 Volt Ballast and 120 V. R.E. Control

TOP TANK EL. 829.00 (PROP.)

69,000 VOLT OVERHEAD POWER TRANSMISSION LINES

Proposed 3/4" Frost Free Yard Hydrant

12" ℄ "NE" 820.91 (PROP)
12" ℄ "E" 820.83 (PROP)
24" ℄ "W" 820.00 (PROP)

12" ℄ "E" 821.91 (EX)
12" ℄ "NW" 821.81 (EX)
12" ℄ "W" 821.81 (PROP.)

NOTE: SEE SHEET Nos 79 Through 82 for Equalization Basin Details.

Permanent Easement

Temp. Easement for Construction

10' Temp. Easement for Construction

CONC. HEADWALL W/ FLAP GATE

6" ℄ PVC DRAIN TILE

HANDRAIL (60 LFT.)

3 ea. - 20 HP/3 ℄ 230 V. Pumps

Sta. 3+20 "Taylor St." 95' Rt.

PROPOSED FLOW EQUALIZATION BASIN

50' R

3/4" c. - 3# 10 TW

6" ℄ PVC DRAIN TILE

'B' BORROW LIMITS

1" c. - 6# 10 TW To Control Panel "B"

EXISTING EXCAVATION LIMITS (APPROX.)

5 HP 240 V 3 ℄ Portable Aspirator (4 ea.)

3/4" c. - 3# 10 TW

25' of #10 4/c Stranded Watertight Flexible Cable w/ Crouse-Hinds 30A. Plug Cat. # APJ 3486 (Typ.)

100' EASEMENT PUBLIC SERVICE OF INDIANA

30A. 240 V. 3 Wire, 1 ℄ Pole Non Fusible Safety Switch NEMA 4 Mounted on Wall Crouse Hinds Cat. # WSR3342 (Typ.)

Proposed Chain Link Fence

Perm. R/W

Service Drop by Power Co. As Required

30' Pressure-Treated Pole

2½" c. - 3 #4/0 THW, 1 #8 NEUT

2½" c. - 3 #4/0 THW 1 #8 NEUT

1¼" c. - 3 #4 THW 1 #10 NEUT (Connect to Line Side Terminals in Control Panel "A")

Pressure-Treated Stub Pole

Drainage Pump (2 HP) Control Panel

½" c. - 3 #10 THW 1 #10 NEUT (Connect to Line Side Terminals in Panel "B")

½" c. - 3 #12 THW

3/4" c. 1 #2 bare copper ground wire

5/8" x 8'-0" copperweld ground rod

1" c. - 6 #10 TW 1½" c. to Wet Well For Controls

2½" c. 9 #4 THW to Wet Well

3/4" c. - 2 #12 TW to Light Pole

Ⓐ NOTE: METER AND CURRENTS LOCATED ON Utility Pole

2'-6" Galvanized Channel Iron Supports, each w/ 4 - ½" Lag Screws

LEGEND

Ⓐ Metering Facilities to be furnished by Power Co.; Installed by E.C.

Ⓑ 400 A. 3 Pole, 3 Fuse, 240 Volt NEMA 3R Double Throw Service Entrance Switch, Square D Cat. #S 92355 PR. Fuse at 275 A Dual Element.

Ⓒ Control Panel "A" For 20 HP Pumps To be Furnished by Equipment Supplier, Installed by E.C. NEMA 4

Ⓓ Control Panel "B" For 5 HP Aspirators to be Furnished by Equipment Supplier, Installed by E.C.

Ⓔ Emergency Generator Receptical, Square D, Cat. # AREA 204-226, Less Black Box

REVISED 10/11/84

8" CONCRETE SLAB EL. 829.0

NEENAH HATCH R 6662 OR EQUAL

3" ℄ PVC FORCE MAIN EL. 819.25

8" ℄ PIPES

12' x 12' WET WELL

4'-0" DIA. PRECAST MANHOLE WET WELL WITH 1 PUMP @ 150 GPM AT 20' TDH

EL. 810.5

PVC END CAPS

6" ℄ PVC DRAIN TILE

EL. 810.0

STONE FILL COMPLETELY AROUND WET WELL

6" ℄ SLOTTED PVC RISER PIPES

10" ℄ SLOTTED PVC PIPE

EL. 803.0

EL. 802.0

SECTION A-A (79)
SCALE: 1/4" = 1'-0"

3" FORCEMAIN

4 REINF. @ 6" EACH WAY (TYP.)

12"

12"

6"

18"

FLAP GATE

RIP RAP 6'-0" x 3'-0" x 1'-6"

29"

820.0

819.0

12"

6'

FLAP GATE LIKE NEENAH R 5004A

HEAD WALL DETAIL

CONTROL PANEL DETAIL
Scale: 3/8" = 1'-0"

RECORD DRAWING

ERIC RESKE NO. 12342 3-30-84 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

PENDLETON EQUALIZATION BASIN
SITE & ELECTRICAL PLANS

Scale: 1" = 20'	FALL CREEK R.W.D.	Sheet
Drawn By: M.E.B.	BEAM, LONGEST & NEFF	78
Designed By: GDL	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

REVISED 7-8-11

SLUDGE DRYING BED TO BE (ABANDON)

SLUDGE DIGESTER (REMOVE)

EX. FENCE TO REMAIN IN PLACE

MILL ROAD

App. Rt

TOP WALL EL. 825.67 (EX.)

TOP TANK EL. 826.70 (EX.)

BOTT. TANK EL. 812.57 (EX.)

12" Ø "S" 821.41 (EX)
12" Ø "SE" 821.41 (EX)
12" Ø "W" 821.38 (EX)
12" Ø "SW" 821.41 (PROP)

WET WELL TO BE (ABANDON)

TOP WALL EL. 826.08 (EX.)

CHLORINE CHAMBER (ABANDON)

AERATION TANKS

LAB. BLDG.

TO BE (ABANDON)

COMMUNUTOR (ABANDON)

BULKHEAD PIPES

REPLACE EX. MH

12" SEWER

M.H. 1-3c (Replace)

BULKHEAD EX. 10" SEWER "SE" & "W"

Approx. Location of Exist. 2" Waterline

24" Ø "E" 817.52 (PROP)
24" Ø "S" 815.55 (PROP)

313' Taylor St. 215 Lf.

REMOVE EX. MH.

10" SEWER

12" SEWER

49'-12" @ 102%

PROP. 12" SEWER

78'-12" @ 1.00%

15" SEWER

124'-24" @ 2.00%

TAYLOR STREET

REPLACE EX. MH. BULKHEAD EX. 12" SEWER "NW"

12" SEWER

M.H. 4-1

Proposed 12" Waterline

5+00.00 TAYLOR ST.
10+00.00 MILL ST.

0+79.73 TAYLOR ST.
69+10.56 FALL CRK. BLVD.

FALL CREEK BLVD.

CREEK

15' Perm Easement

Control Panel

PROPOSED ASPHALT ENTRANCE

60A. Double Throw Service Ent. Switch

10" GATE VALVE MH

Control Panel "A"

App. Rt Sta. 3+05 "Taylor St." 34' Rt.

PROP. 10" DIA. FORCE MAIN

55.24'

TOP WET WELL EL. 829.00

3/4" c. - 2 #12 to 20A 1 p breaker in Control Panel "A"

150 Watt HPS Fixture on 20' Wood Pole Similar to G.E. M400A w/120 Volt Ballast and 120V. P.E. Control

12" Ø "NE" 820.91 (PROP)
12" Ø "E" 820.83 (PROP)
29' Ø "W" 820.00 (PROP)

12" Ø "E" 821.91 (EX)
12" Ø "NW" 821.81 (EX)
12" Ø "W" 821.81 (PROP)

NOTE: SEE SHEET Nº's 79 Through 82 for Equalization Basin Details.

1" c. - 6 #10 TW to Control Panel "B"

HANDRAIL (60 LFT)

TOP TANK EL. 829.00 (PROP.)

69,000 VOLT OVERHEAD POWER TRANSMISSION LINES

Proposed 3/4" Frost Free Yard Hydrant

Permanent Easement

Temp Easement for Construction

10' Temp. Easement for Construction

3/4" c. - 3 #10 TW

3 ea. - 20 HP/3 ϕ 230 V. Pumps

Sta. 3+20 "Taylor St." 95' Rt.

50' R.

PROPOSED FLOW EQUALIZATION BASIN

5 HP, 240 V 3 ϕ Portable Aspirator (4 ea.)

25' of #10 4/c Stranded Watertight Flexible Cable w/Crouse-Hinds 30A. Plug Cat. #APJ 3485 (Typ.)

3/4" c. - 3 #10 TW

100' EASEMENT PUBLIC SERVICE OF INDIANA

1'-6" Bentonite Slurry Trench See Sheet Nº 79 For Details

30A., 240 V., 3 Wire, ϕ Pole Non Fusible Safety Switch NEMA 4, Mounted on Wall Crouse Hinds Cat. #WSR3342 (Typ.)

Proposed Chain Link Fence

Perm. R/W

FIELD LINE

FALL

Service Drop by Power Co.

12'-0"

30' Pressure - Treated Pole

2½" c. - 3 #4/0 THW, 1 #8 NEUT

2½" c. - 3 #4/0 THW 1 #8 NEUT

1¼" c. - 3 #4 THW 1 #10 NEUT (Connect to Line Side Terminals in Control Panel "A")

Pressure-Treated Stub Pole

2'-6" Galvanized Channel Iron Supports, each w/4-½" Lag Screws

25'-0"

31"

36"

60"

16"

3'-0"

9'-2"

3'-0"

3/4" c. 1 #2 bare copper ground wire

5/8" x 8'-0" copper weld ground rod

1" c. - 6 #10 T.W. 1½" c. to Wet Well For Controls

2½" c. 9 #4 THW to Wet Well

3/4" c. 6 #12 TW to Light Poles

RECORD DRAWING

CONTROL PANEL DETAIL

Scale: 3/8" = 1'-0"

LEGEND

(A) Metering Facilities to be furnished by Power Co.; Installed by E.C.

(B) 400A. 3 Pole, 3 Fuse, 240 Volt NEMA 3R Double Throw Service Entrance Switch, Square D Cat. Nº 92355 FR. Fuse at 275 A Dual Element.

(C) Control Panel "A" For 20 HP Pumps To be Furnished by Equipment Supplier, Installed by E.C. NEMA 4

(D) Control Panel "B" For 5 HP Aspirators to be furnished by Equipment Supplier, Installed by E.C.

(E) Emergency Generator Receptical, Square D, Cat. #AREA 204-226, Less Black Box

ERIC RESKE REGISTERED No. 13648 STATE OF INDIANA PROFESSIONAL ENGINEER

PENDLETON EQUALIZATION BASIN
SITE & ELECTRICAL PLANS

Scale: 1" = 20'
Drawn By: M.E.B.
Designed By: G.D.L.
Certified By: E.R.

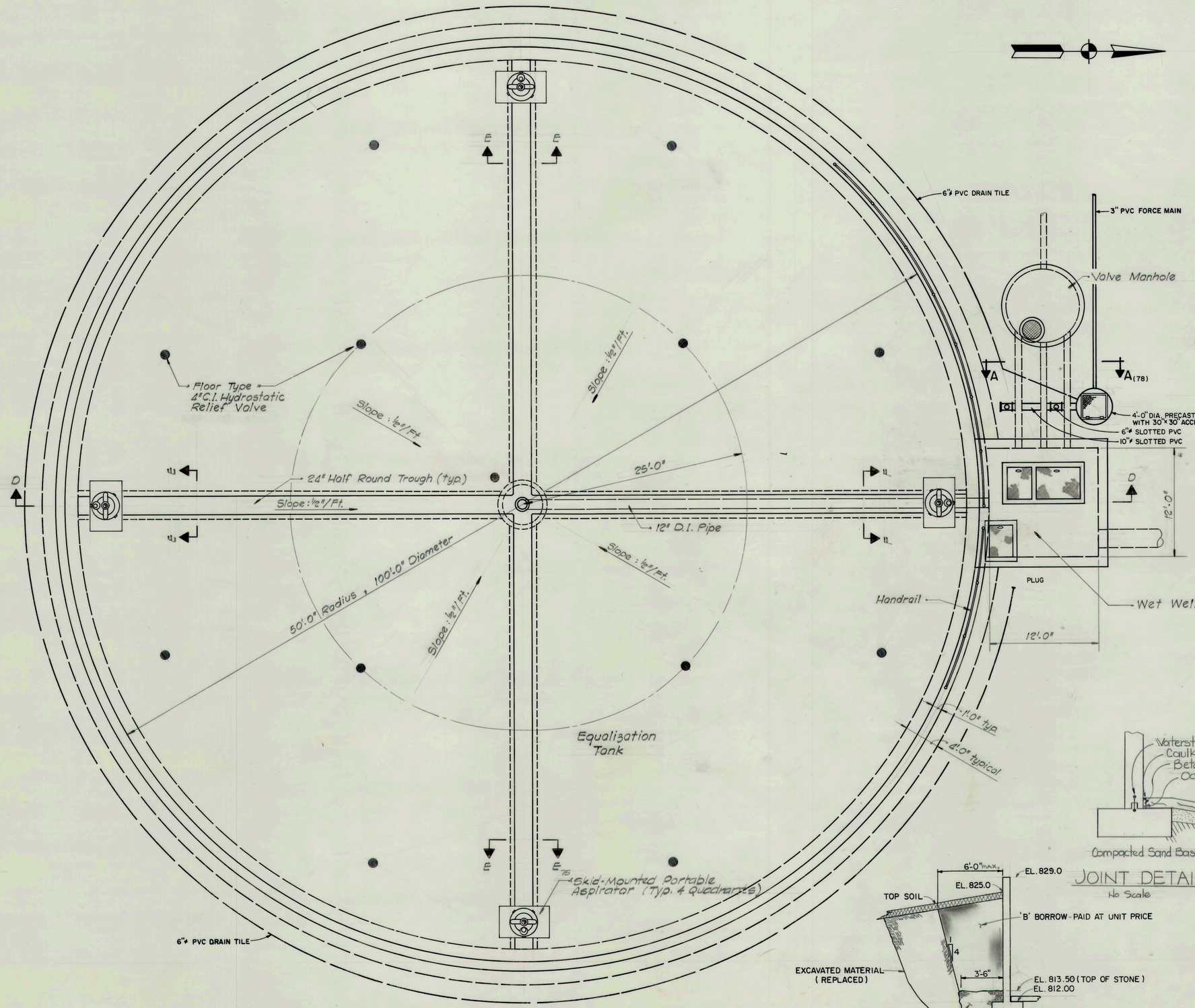
FALL CREEK R.W.D.

BEAM, LONGEST & NEFF
Consulting Engineers
8136 Castleton Road
Indianapolis In. 46250

Sheet 78

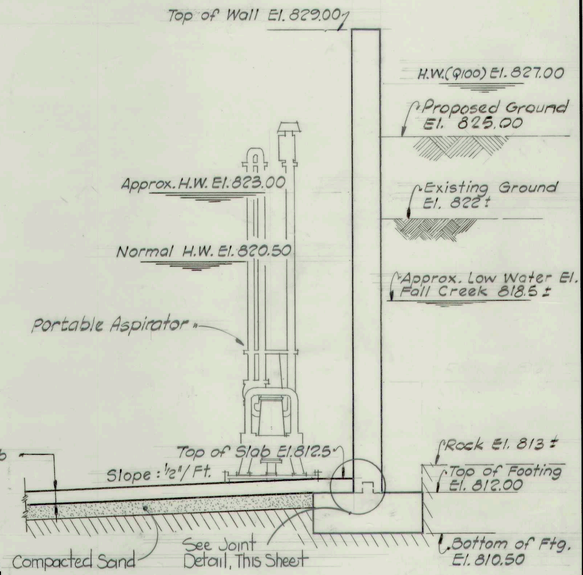
PHOTOGRAMMETRIC COMPILATION BY ACCU-MAP SURVEYS, INC., SEYMOUR, INDIANA

78



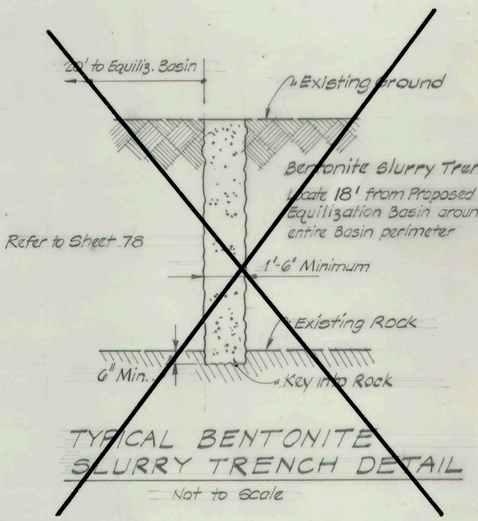
PLAN

Scale : 3/16" = 1'-0"



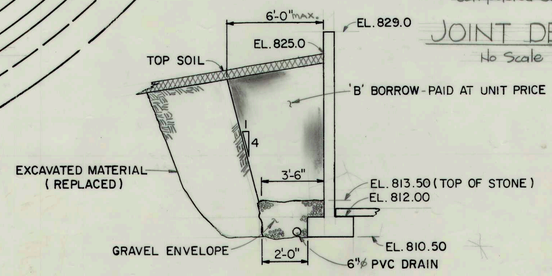
TYPICAL WALL SECTION

Scale : 3/8" = 1'-0"



JOINT DETAIL

No Scale



SECTION B-B (TYPICAL)

NO SCALE

TYPICAL BENTONITE SLURRY TRENCH DETAIL

Not to Scale

DELETED

RECORD DRAWING

REVISED 10/11/84

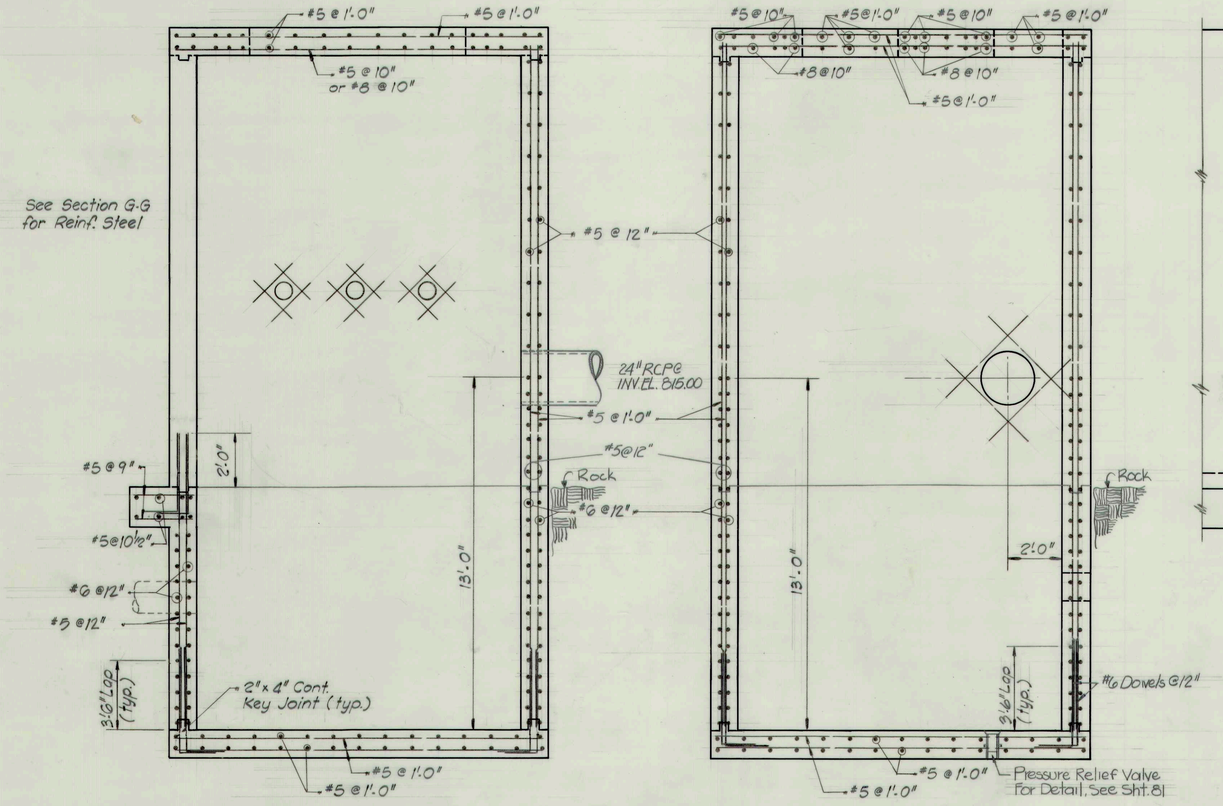
ERIC RESKE REGISTERED ER 10134A2 PROFESSIONAL ENGINEER STATE OF INDIANA

	EQUALIZATION TANK PLAN - STRUCTURAL	
Scale: 3/16" = 1'-0"	FALL CREEK R.W.D.	Sheet
Drawn By: J.B.	BEAM, LONGEST & NEFF	79
Designed By: R.F.S.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road	
	Indianapolis In. 46250	

7-2

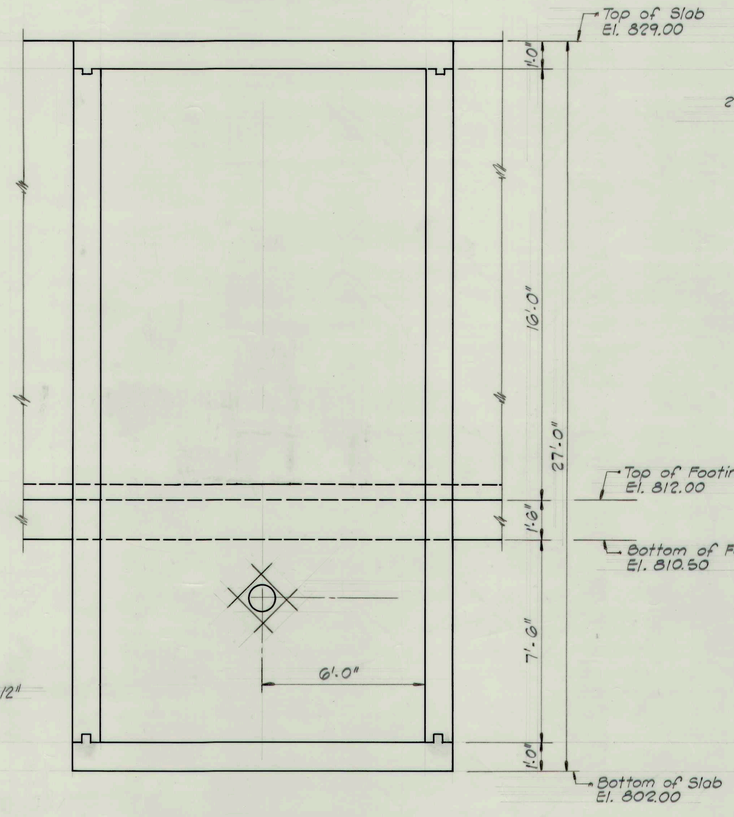
MARBAUGH M26508

79



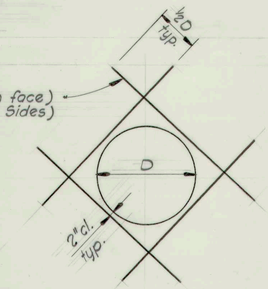
SECTION A-A

SECTION B-B



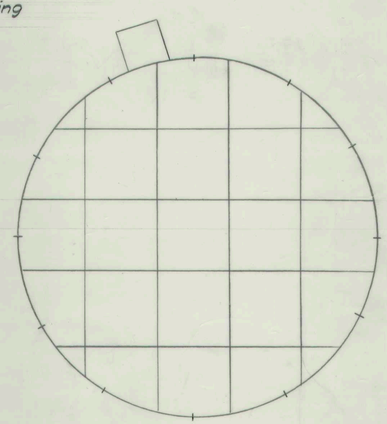
SECTION C-C

For Reinforcing See Section B-B



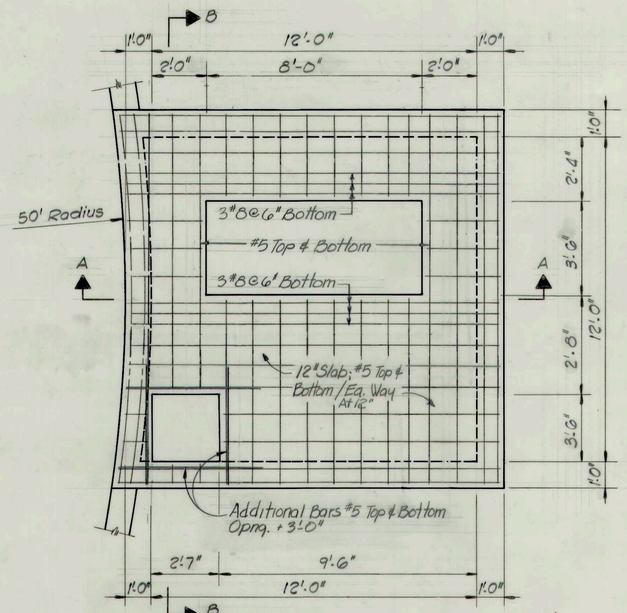
TYPICAL WALL OPENING REINFORCING DETAIL

No Scale



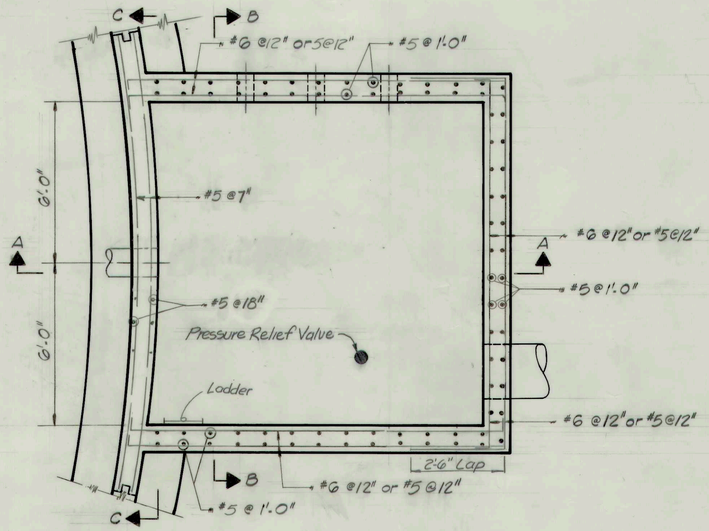
TANK CONSTRUCTION JOINTS

(Pour Constr. Joints in Checkered Board Pattern Approx. 20 x 20 Sq.)
No Scale



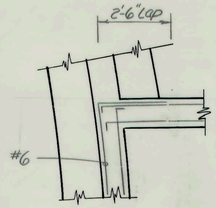
TOP SLAB ~ PLAN

(Verify Opening With Hatch Cover Manufacturer)



PLAN

(SHOWN WITH TOP SLAB REMOVED)



CORNER BELOW TANK FOOTING

No Scale

RECORD DRAWING

ERIC RESKE REGISTERED ER No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER

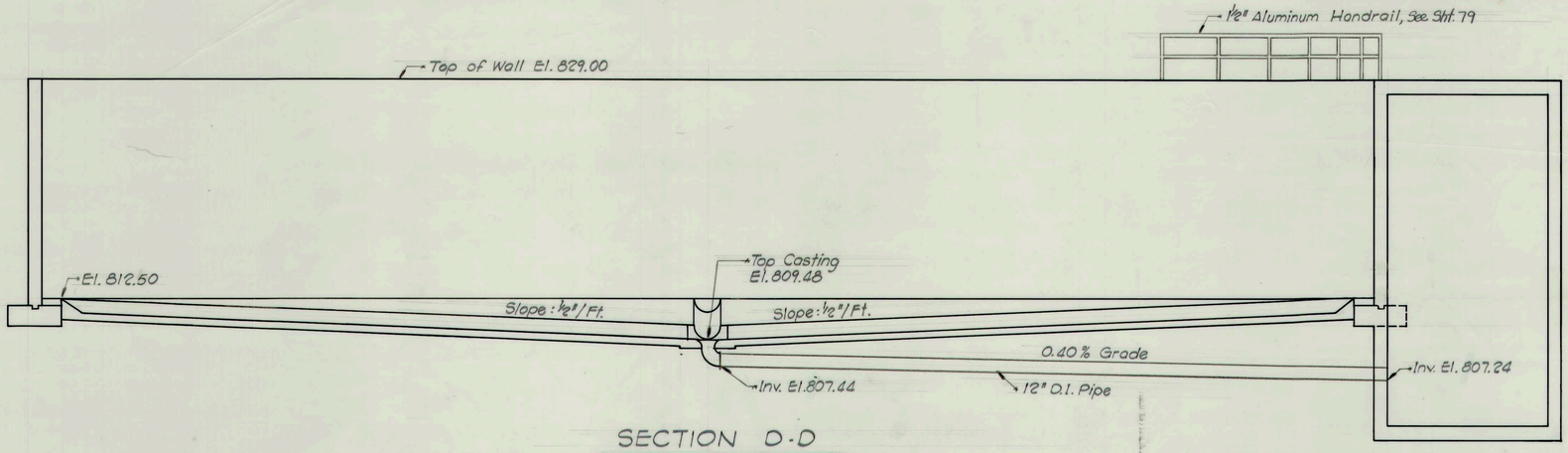
EQUALIZATION TANK SECTIONS - STRUCTURAL

Scale: 3/8" = 1'-0"	FALL CREEK R.W.D.	Sheet
Drawn By: JFB	BEAM, LONGEST & NEFF	80
Designed By: RFS	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MAIBAUGH N26508

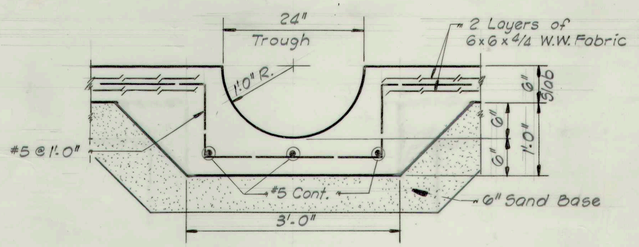
Rev. 11-7-83, Rebar

80



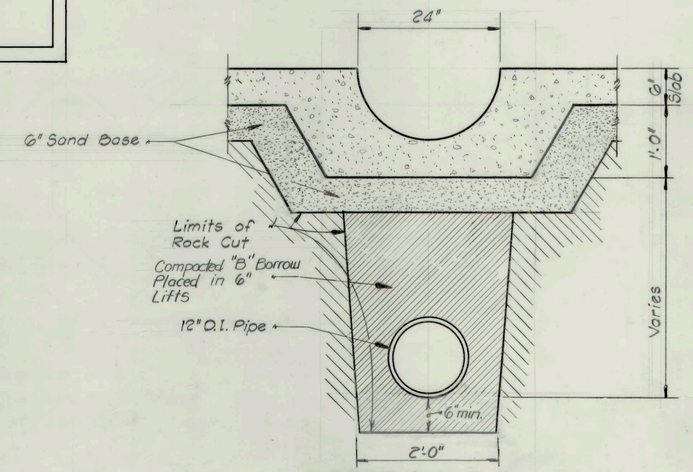
SECTION D-D

Scale: 3/16" = 1'-0"



SECTION E-E

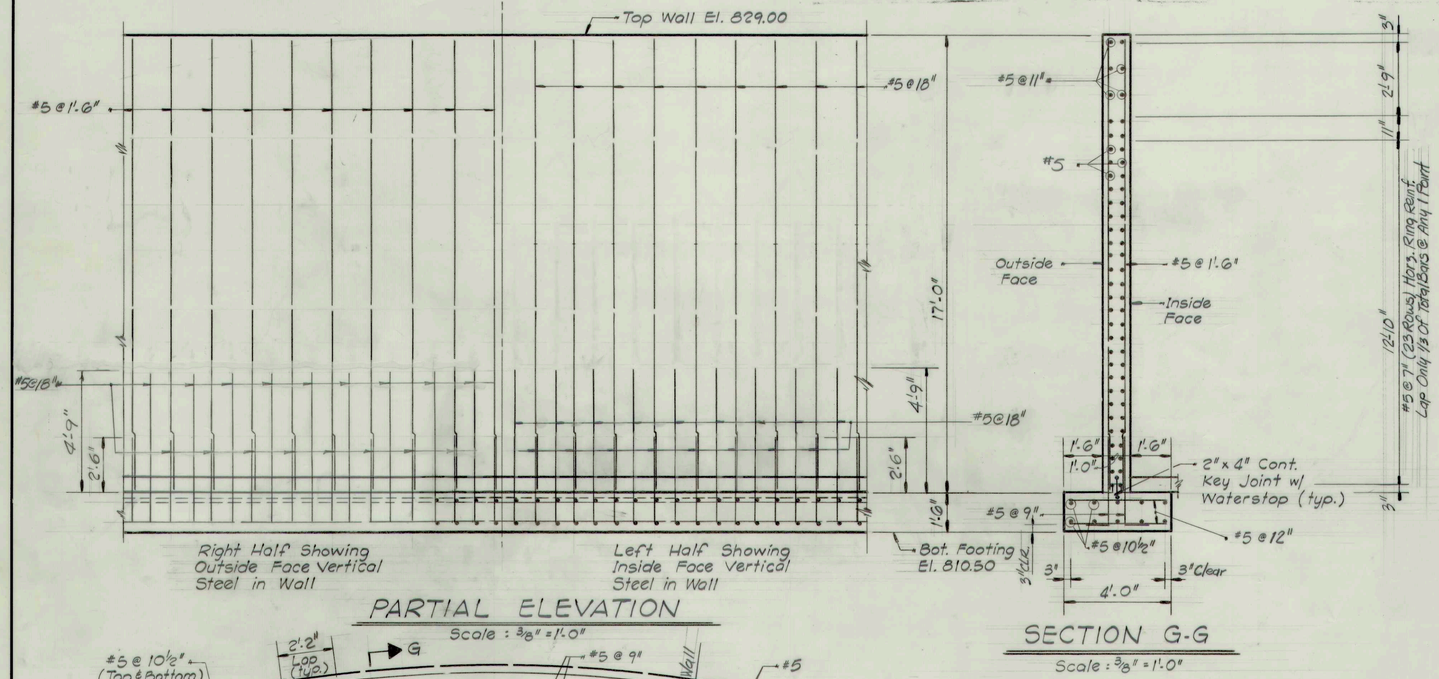
Scale: 1" = 1'-0"



SECTION F-F

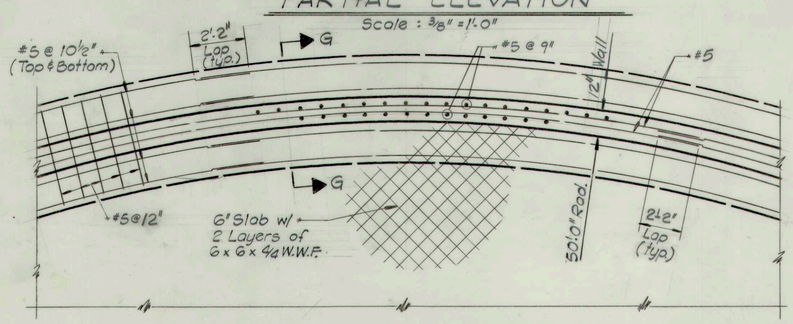
Scale: 1" = 1'-0"

For Reinforcing Steel See Sec. E-E



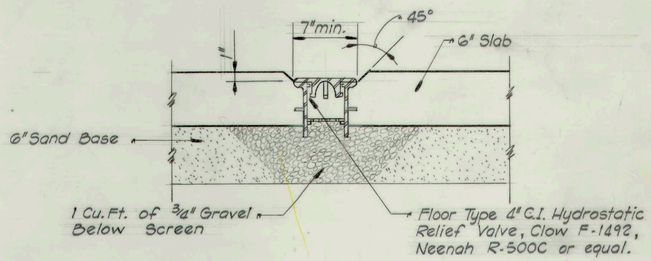
PARTIAL ELEVATION

Scale: 3/8" = 1'-0"



PARTIAL PLAN VIEW

Scale: None



PRESSURE RELIEF VALVE DETAIL

RECORD DRAWING

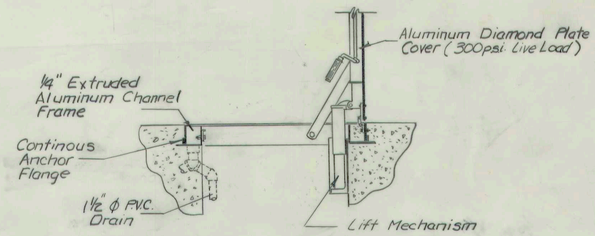
ERIC RESKE REGISTERED No. 13442 STATE OF INDIANA PROFESSIONAL ENGINEER 2-3-83

EQUALIZATION TANK DETAILS ~ STRUCTURAL

Scale: AS SHOWN	FALL CREEK R.W.D.	Sheet 81
Drawn By: JB	BEAM, LONGEST & NEFF	
Designed By: RFS	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

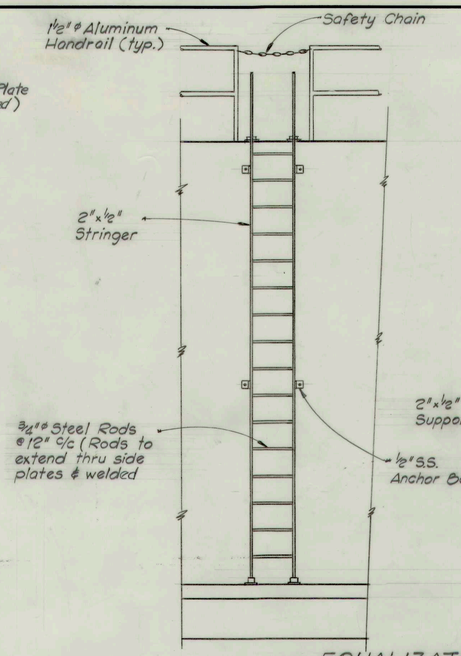
MARBAUGH N36508

Rev. 11-7-83, Re-bar



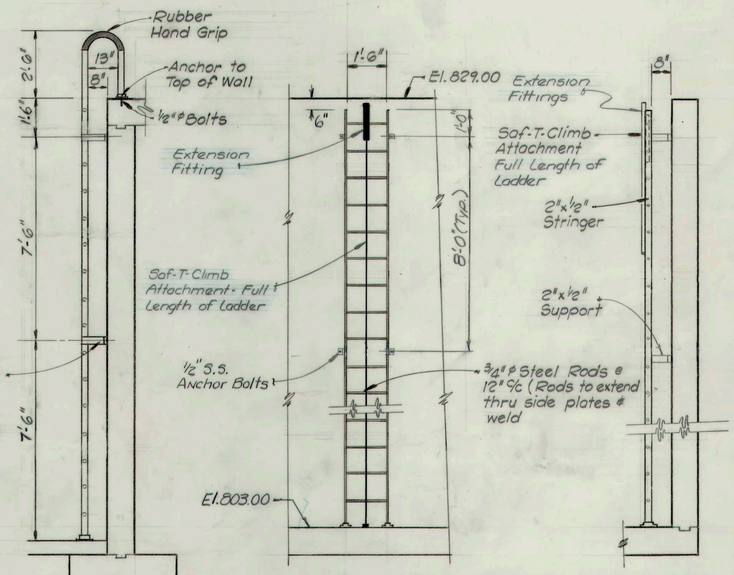
ACCESS DOOR FRAME DETAIL

No Scale



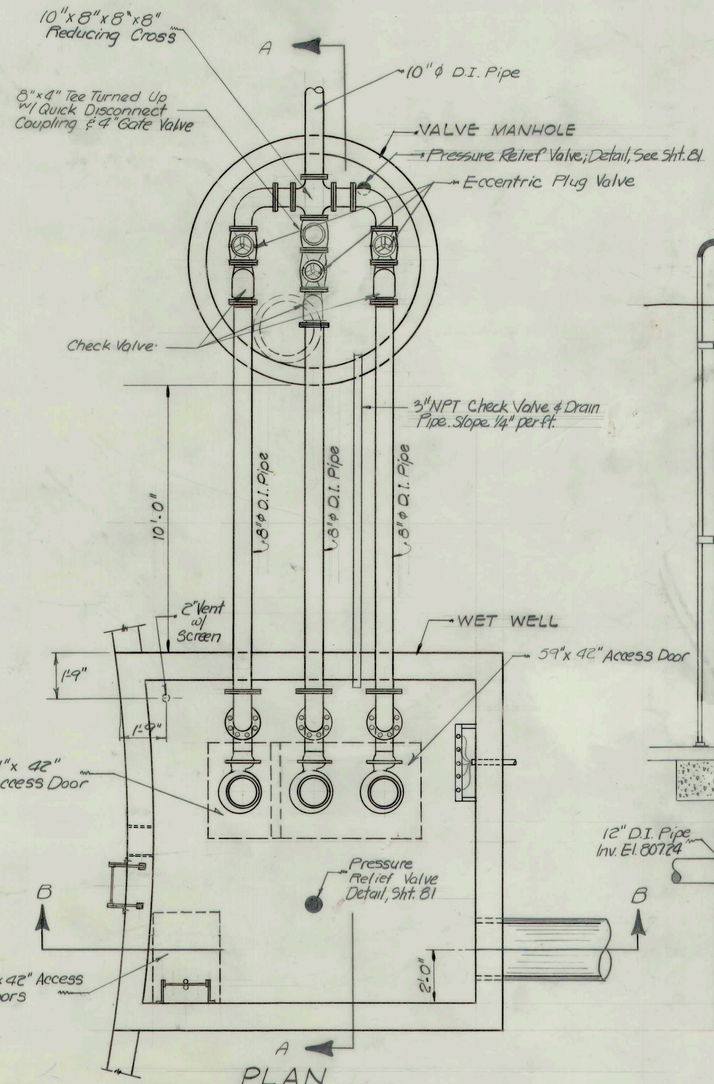
EQUALIZATION TANK LADDER DETAILS

Scale : 3/8" = 1'-0"



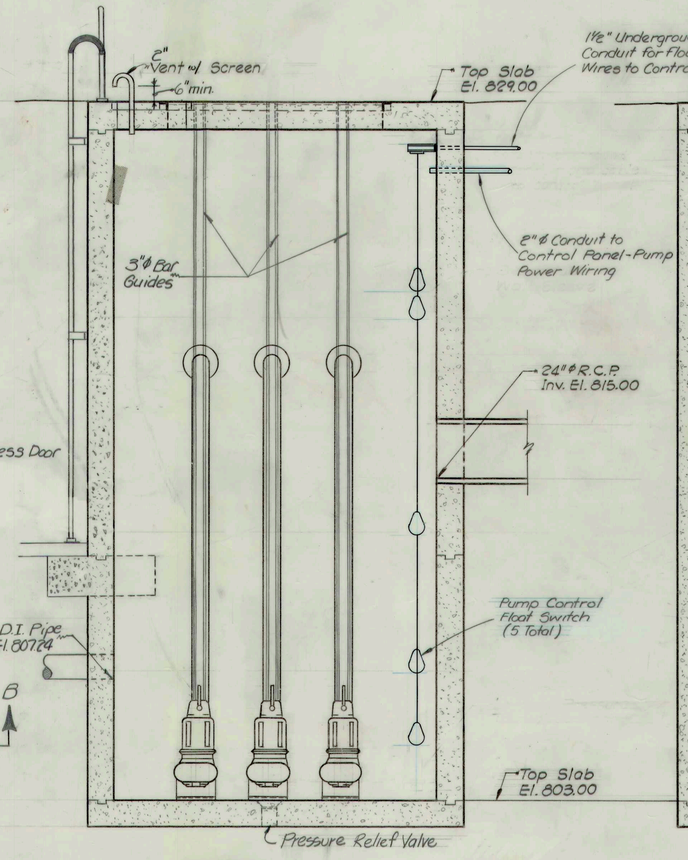
WET WELL LADDER DETAILS

Scale : 3/8" = 1'-0"

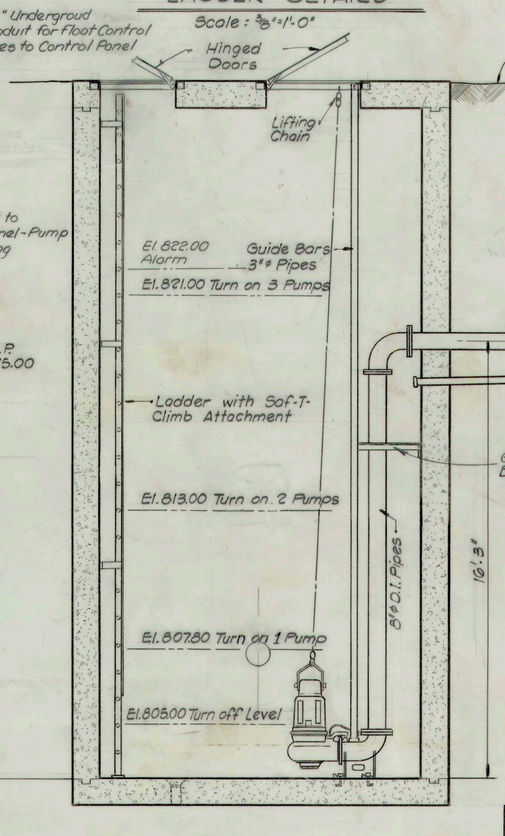


PLAN

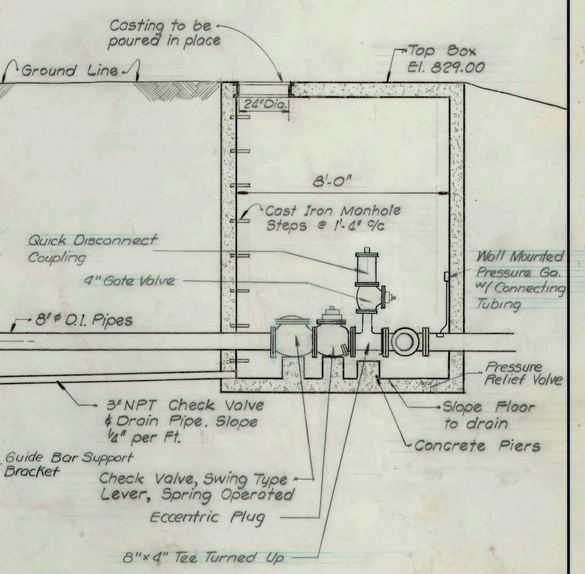
WET WELL AND VALVE MANHOLE



SECTION B-B



SECTION A-A



RECORD DRAWING

ERIC RESKE — REGISTERED — No. 13110 — STATE OF INDIANA — PROFESSIONAL ENGINEER — 3-20-85

EQUALIZATION TANK DETAILS - MECHANICAL

Scale: 3/8" = 1'-0"	FALL CREEK R.W.D.	Sheet 82
Drawn By: JB	BEAM, LONGEST & NEFF	
Designed By: RFS	Consulting Engineers 8136 Castleton Road Indianapolis In. 46250	
Certified By: E.R.		

T-3

MARBAUGH N36308

Rev. 11-7-83

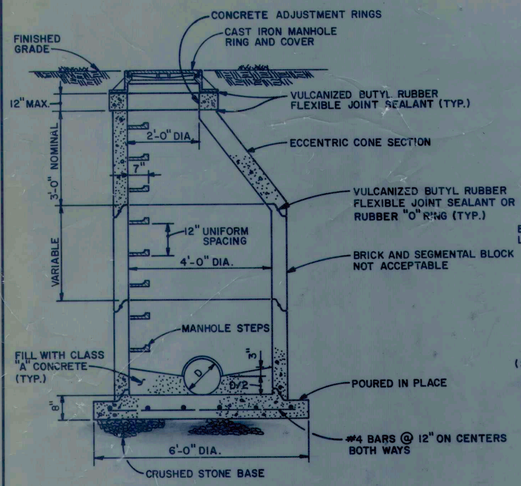
82

DROP PIPE SCHEDULE

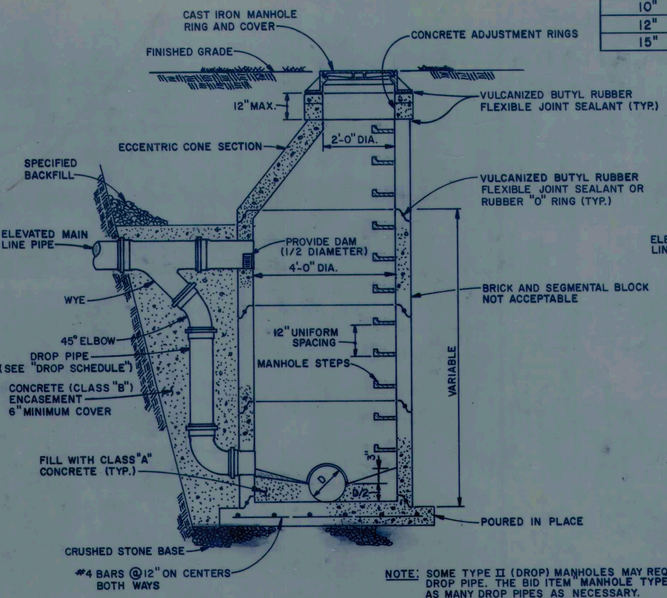
ELEV. MAIN	DROP PIPE	ELEV. MAIN	DROP PIPE
8"	6"	18"	12"
10"	8"	21"	15"
12"	10"	24"	15"
15"	12"	30"	18"

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST A.S.T.M. SPECIFICATIONS.
2. CONTRACTOR MUST RESTORE ALL PUBLIC AND PRIVATE FACILITIES DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL OR BETTER CONDITION.
3. ALL HOUSE CONNECTIONS SHALL BE 6"DIA. SEWER PIPE.
4. THE CONTRACTOR SHALL INCLUDE IN HIS "IN PLACE" COST FOR SEWERS, WHATEVER COSTS ARE NECESSARY FOR EXCAVATING, BACKFILLING, SHEETING, SHORING, BRACING, CLEARING OR OTHER PROCEDURES REQUIRED TO INSTALL THE SEWERS IN THE LOCATIONS SHOWN AND WITHIN AVAILABLE R/W.
5. PARTICULAR ATTENTION MUST BE PAID TO SIDE DITCH DRAINAGE DURING FINAL GRADING TO INSURE PROPER SURFACE DRAINAGE FOR THE AREA.
6. UTILITIES INDICATED ON THE DRAWINGS ARE LOCATED TO THE BEST INFORMATION AVAILABLE WHERE CONSTRUCTION TAKES PLACE NEAR ANY UTILITY, THE CONTRACTOR SHALL HAVE THE UNDERGROUND UTILITY FIELD LOCATED BEFORE STARTING WORK.
7. EXISTING CULVERTS REMOVED DURING CONSTRUCTION MAY BE RE-USED UPON ENGINEERS INSPECTION AND APPROVAL; NEW CULVERT PIPE SHALL BE USED WHEN IN STATE HIGHWAY OR COUNTY RIGHT OF WAY.
8. MANHOLE ADJUSTMENT RINGS TO BE ADJUSTED TO MATCH FINAL GROUND OR PAVEMENT GRADE, UNLESS OTHERWISE NOTED ON PLANS.
9. MANHOLE BOTTOMS SHALL BE FORMED TO PROVIDE CHANNELS CONFORMING IN SIZE AND SHAPE TO THE INCOMING AND OUTGOING SEWERS WITH SMOOTH CHANNEL INVERTS SLOPED AND FILLETED IN A MANNER TO PREVENT DEPOSITION OF SOLIDS IN THE MANHOLE.
10. WHEN MAIN SEWER DIAMETER IS 24" TO 33", THE INSIDE DIAMETER OF THE MANHOLE BASE SHALL BE 60" MINIMUM.

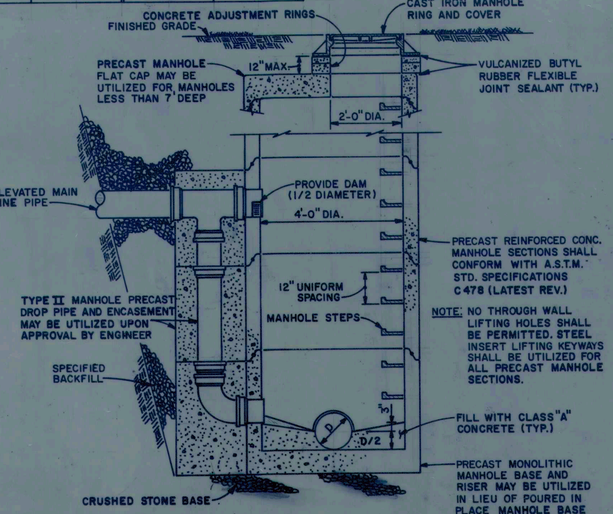


TYPE I
STANDARD MANHOLE FOR SEWERS
21" OR LESS IN DIAMETER



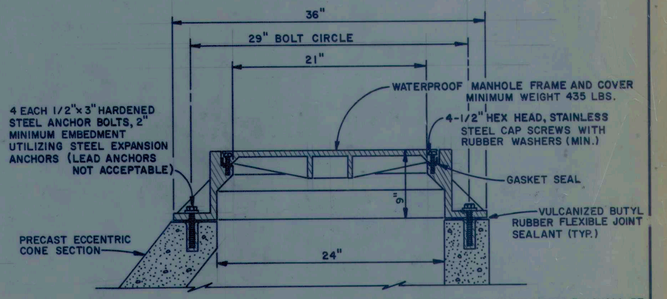
TYPE II
DROP MANHOLE FOR SEWERS
21" OR LESS IN DIAMETER

NOTE: SOME TYPE II (DROP) MANHOLES MAY REQUIRE MORE THAN ONE DROP PIPE. THE BID ITEM "MANHOLE TYPE II" SHALL INCLUDE AS MANY DROP PIPES AS NECESSARY.



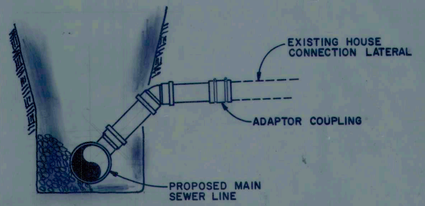
NOTE: NO THROUGH WALL LIFTING HOLES SHALL BE PERMITTED. STEEL INSERT LIFTING KEYWAYS SHALL BE UTILIZED FOR ALL PRECAST MANHOLE SECTIONS.

TYPE II
PRECAST DROP MANHOLE FOR SEWERS
21" OR LESS IN DIAMETER

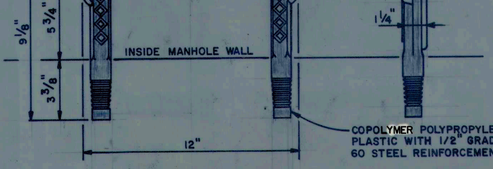


NOTE: ANCHOR BOLTS AND BOLT HOLES SHALL BE FURNISHED AS PART OF INSTALLATION.
WATERPROOF AND FLOODPROOF SHALL BE CONSIDERED AS BEING THE SAME.

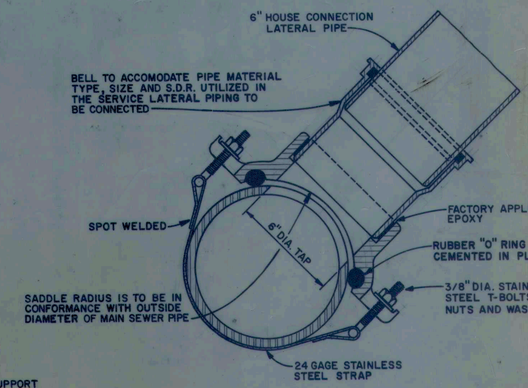
FLOODPROOF MANHOLE DETAIL



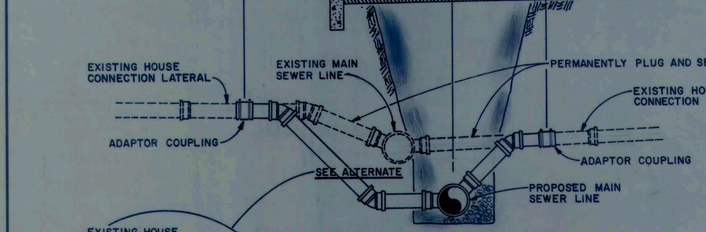
LATERAL DETAIL MAIN SEWER
REMOVE AND REPLACE



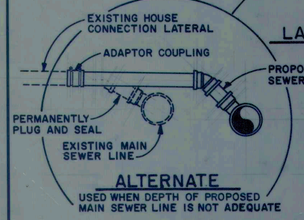
MANHOLE STEP DETAIL



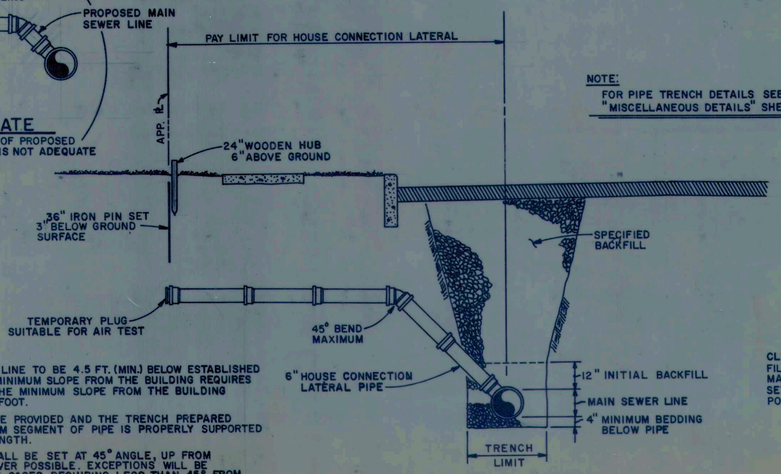
SEWER PIPE SADDLE DETAIL



LATERAL DETAIL FOR SEWER SEPARATION



ALTERNATE
USED WHEN DEPTH OF PROPOSED MAIN SEWER LINE IS NOT ADEQUATE

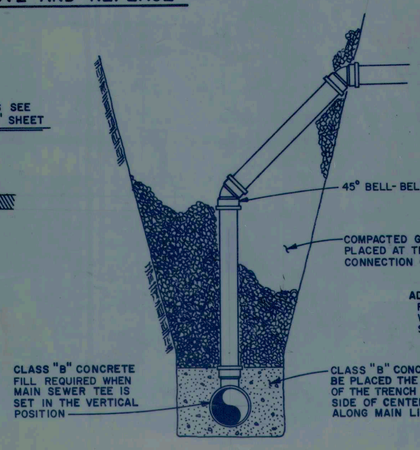


NOTE:
FOR PIPE TRENCH DETAILS SEE "MISCELLANEOUS DETAILS" SHEET

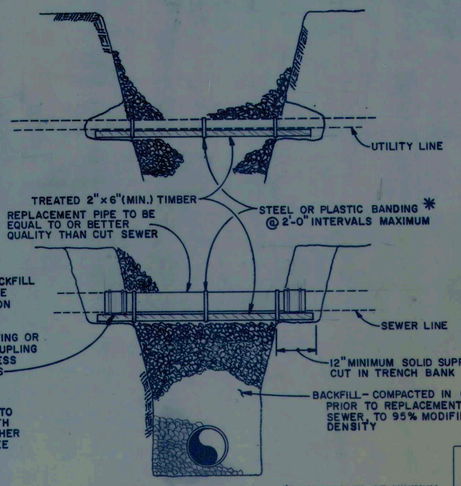
TYPICAL LATERAL DETAIL

NOTES:

1. DEPTH AT PROPERTY LINE TO BE 4.5 FT. (MIN.) BELOW ESTABLISHED GRADE UNLESS THE MINIMUM SLOPE FROM THE BUILDING REQUIRES A GREATER DEPTH. THE MINIMUM SLOPE FROM THE BUILDING SHALL BE 1/8" PER FOOT.
2. BELL HOLES SHALL BE PROVIDED AND THE TRENCH PREPARED SO THAT THE BOTTOM SEGMENT OF PIPE IS PROPERLY SUPPORTED THROUGHOUT ITS LENGTH.
3. SEWER LINE TEES SHALL BE SET AT 45° ANGLE, UP FROM HORIZONTAL, WHENEVER POSSIBLE. EXCEPTIONS WILL BE ALLOWED IN CERTAIN CASES REQUIRING LESS THAN 45° FROM HORIZONTAL TEE PLACEMENT. (eg. SHALLOW MAIN LINE SEWERS, LESS THAN 5 FEET DEEP) (eg. NEW HOUSE CONNECTIONS MUST GO UNDER EXISTING SEWER)
4. DEPTH OF HOUSE LATERAL AT PROPERTY LINE SHALL BE SUFFICIENT TO SERVE EXISTING DRAINS IN BASEMENTS AND OTHER EXISTING DEEP HOUSE DRAINS AND WHEN REQUESTED BY HOMEOWNER.



LATERAL DETAIL FOR DEEP SEWERS



* BANDING TO BE MINIMUM 1" WIDTH MATERIAL AND TO BE INSTALLED WITH STANDARD BANDING TOOLS

DETAIL FOR REPAIR AND SUPPORT
OF EXPOSED UTILITIES AND SEWERS

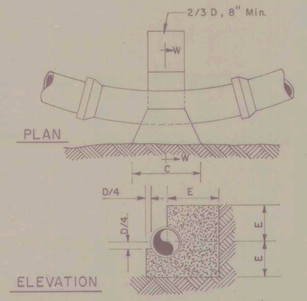
ERIC RESKE
REGISTERED
ER
No. 13442
5-30-83
INDIANA
PROFESSIONAL ENGINEER

RECORD DRAWING
SEWER DETAILS

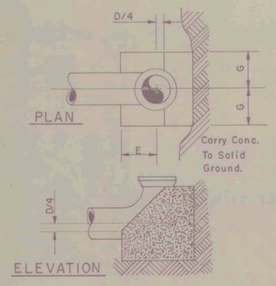
Scale: As Noted	FALL CREEK R.W.D.	Sheet
Drawn By: P.B.	BEAM, LONGEST & NEFF	83
Designed By: R.C.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

MARBAUGH M26508

D	C	E	G
4"	1'-0"	6"	6"
6"	1'-3"	8"	8"
12"	2'-6"	1'-3"	1'-3"
15"	3'-0"	1'-6"	1'-6"



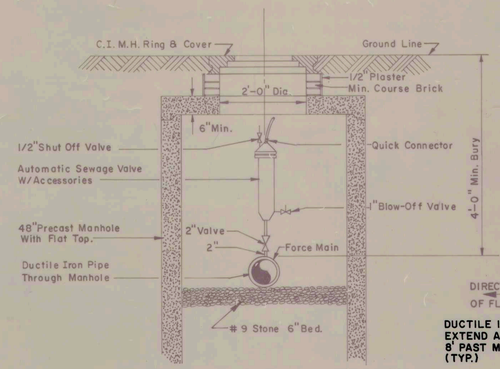
THRUST BLOCK FOR HORIZONTAL BEND



THRUST BLOCK FOR VERTICAL ELBOW

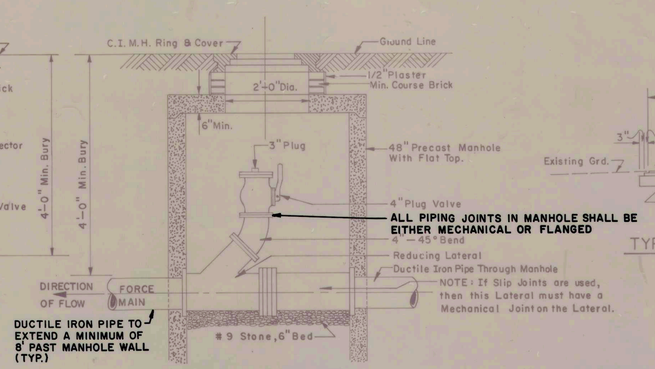
Scale: None

(Thrust Blocks To Be Provided At All Bends In Force Mains)



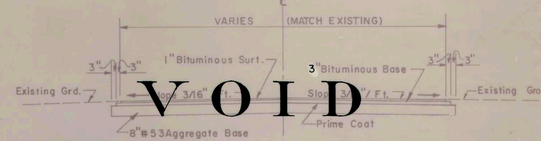
FORCE MAIN AIR RELEASE

SCALE: NONE



CLEANOUTS FOR FORCE MAINS

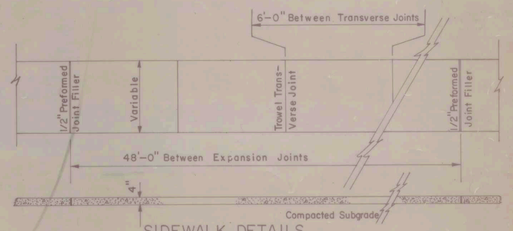
SCALE: NONE



VOID

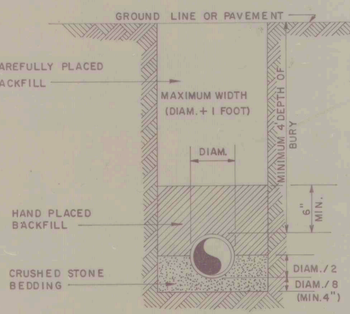
BITUMINOUS PAVEMENT
TYPICAL SECTION FOR ROADWAY REPLACEMENT

SCALE: NONE



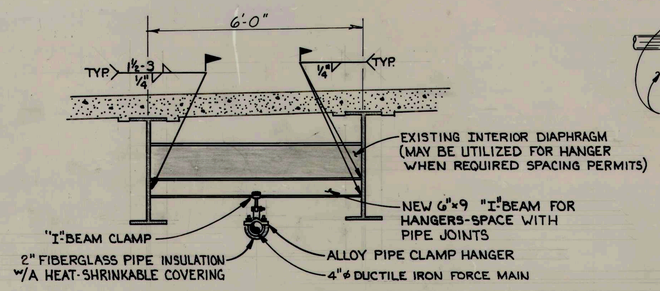
SIDEWALK DETAILS

--NO SCALE--

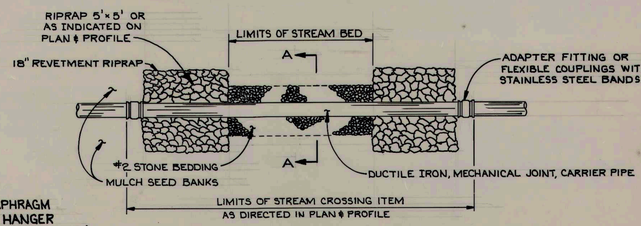


FORCE MAIN TRENCH DETAIL

SCALE: NONE

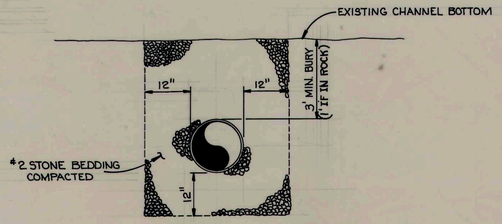


AERIAL FORCE MAIN CROSSING



PLAN VIEW

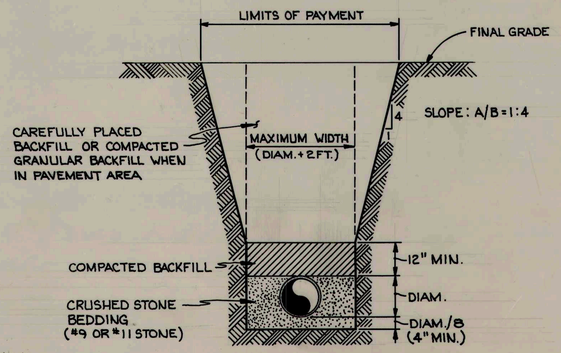
NO SCALE



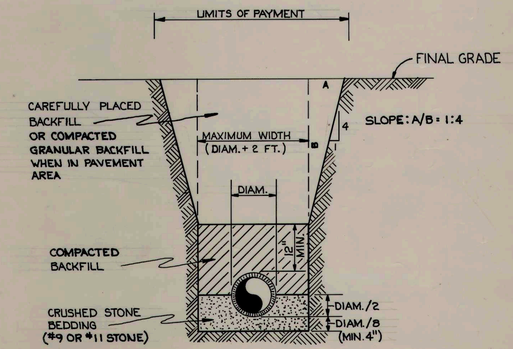
SECTION A-A

NO SCALE

STREAM CROSSING DETAIL



FLEXIBLE PIPE GRAVITY SEWER
TYPICAL TRENCH DETAIL



RIGID PIPE GRAVITY SEWER
TYPICAL TRENCH DETAIL

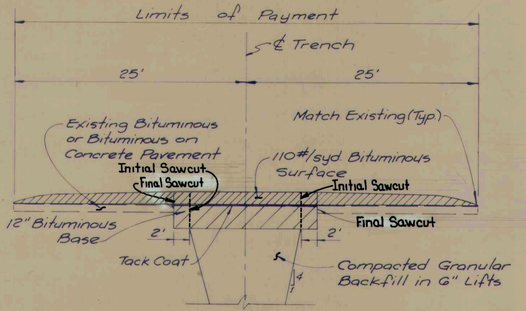
RECORD DRAWING

ERIC RESKE REGISTERED ER No. 13442 STATE OF INDIANA 3-30-83 PROFESSIONAL ENGINEER

FALL CREEK R.W.D.		
JOB NO. 825	MISC. DETAILS	SHEET NO.
DATE 3-30-83		84
DR.BY: J.C.B	BEAM, LONGEST & NEFF, INC. CONSULTING ENGINEERS 8136 CASTLETON ROAD INDIANAPOLIS, INDIANA	
CERTIFIED BY: E.R.		

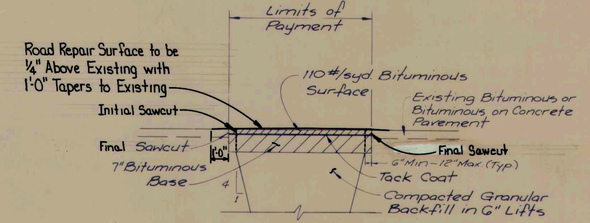
1976

84



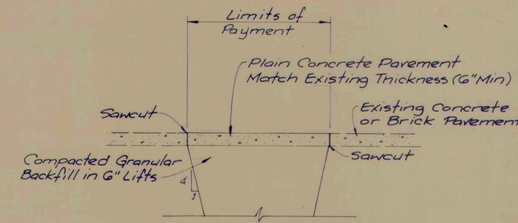
HIGHWAY REPAIR FOR BITUMINOUS PAVEMENT or BITUMINOUS ON CONCRETE PAVEMENT

(No Scale)



COUNTY ROAD REPAIR FOR BITUMINOUS PAVEMENT

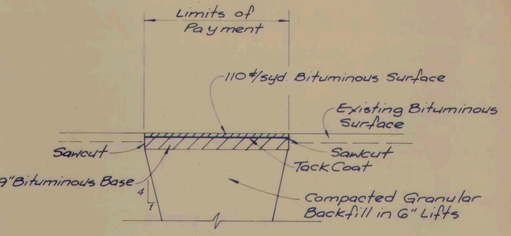
(No Scale)



PAVEMENT REPAIR DETAIL *

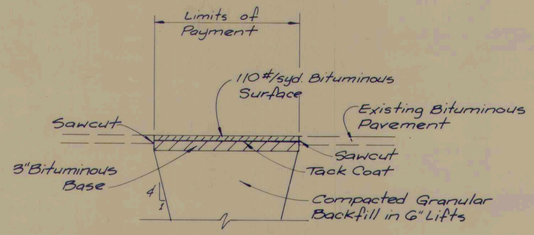
(No Scale)

* For County Road, Street & Residential Driveway Repair (Within Highway R/W) - Concrete or Brick Pavement.



BITUMINOUS COMMERCIAL DRIVEWAY REPAIR, WITHIN HIGHWAY R/W

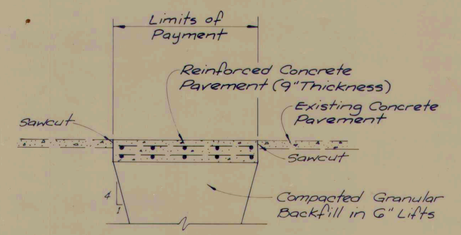
(No Scale)



BITUMINOUS RESIDENTIAL DRIVEWAY REPAIR *

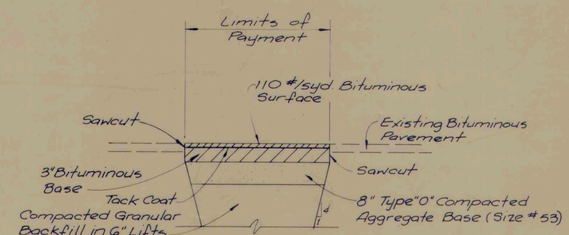
(No Scale)

*For Driveways in Street, County & Highway R/W



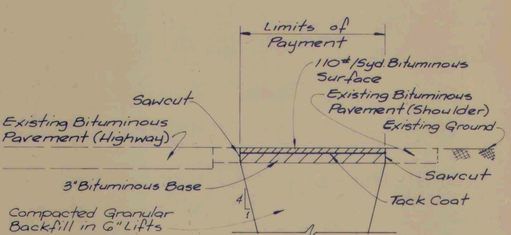
CONCRETE COMMERCIAL DRIVEWAY REPAIR, WITHIN HIGHWAY OR COUNTY R/W

(No Scale)



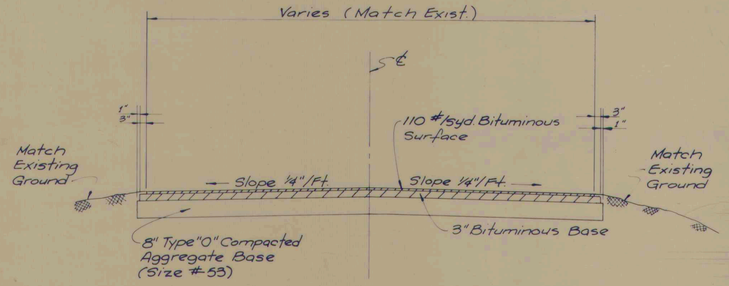
STREET REPAIR FOR BITUMINOUS PAVEMENT

(No Scale)



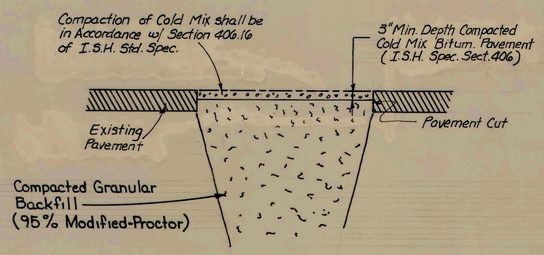
SHOULDER REPAIR ALONG HIGHWAYS

(No Scale)



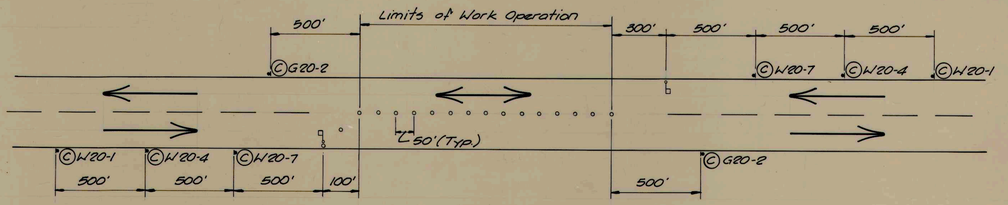
TYPICAL SECTION FOR ROADWAY REPLACEMENT BITUMINOUS PAVEMENT

(No Scale)



TEMPORARY ROAD REPAIR

For All Pavement During Sewer Main Installation



TYPICAL WORK SECTION

(No Scale)

LEGEND

- © Construction Sign, Type A
  - G20-2 End Construction
  - W20-1 Road Construction Ahead
  - W20-4 One Lane Road Ahead
  - W20-7 Flagman Ahead
- Flagman
- Cones, Drums, or Barricades, Type I or II

GENERAL NOTES

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 104.04 OF THE INDIANA STATE HIGHWAY STANDARD SPECIFICATIONS, DATED 1978, THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 1975 AND THE MAINTAINING TRAFFIC SEQUENCE FOR INDIVIDUAL SEGMENTS AS DETAILED.
2. CONTRACTOR SHALL BE REQUIRED TO ERECT AND MAINTAIN ALL CONSTRUCTION SIGNS AS SHOWN.
3. THE MAINTENANCE OF TRAFFIC LISTED HERE IS ONLY A RECOMMENDATION AND SHOULD THE CONTRACTOR DESIRE TO ADOPT ANOTHER METHOD OF MAINTAINING TRAFFIC DURING CONSTRUCTION, IT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ADVANCE OF THE COMMENCEMENT OF WORK IN THE AFFECTED AREA.
4. LENGTH OF WORK OPERATION SHALL BE LIMITED AS SET OUT IN SECTION 9, GENERAL CONSTRUCTION SPECIFICATIONS.
5. MAINTENANCE OF TRAFFIC AS SHOWN IN THE DETAIL ABOVE SHALL BE REQUIRED ONLY WHEN CONSTRUCTION IS WITHIN 12 FEET OF EDGE OF PAVEMENT.

MAINTENANCE OF TRAFFIC

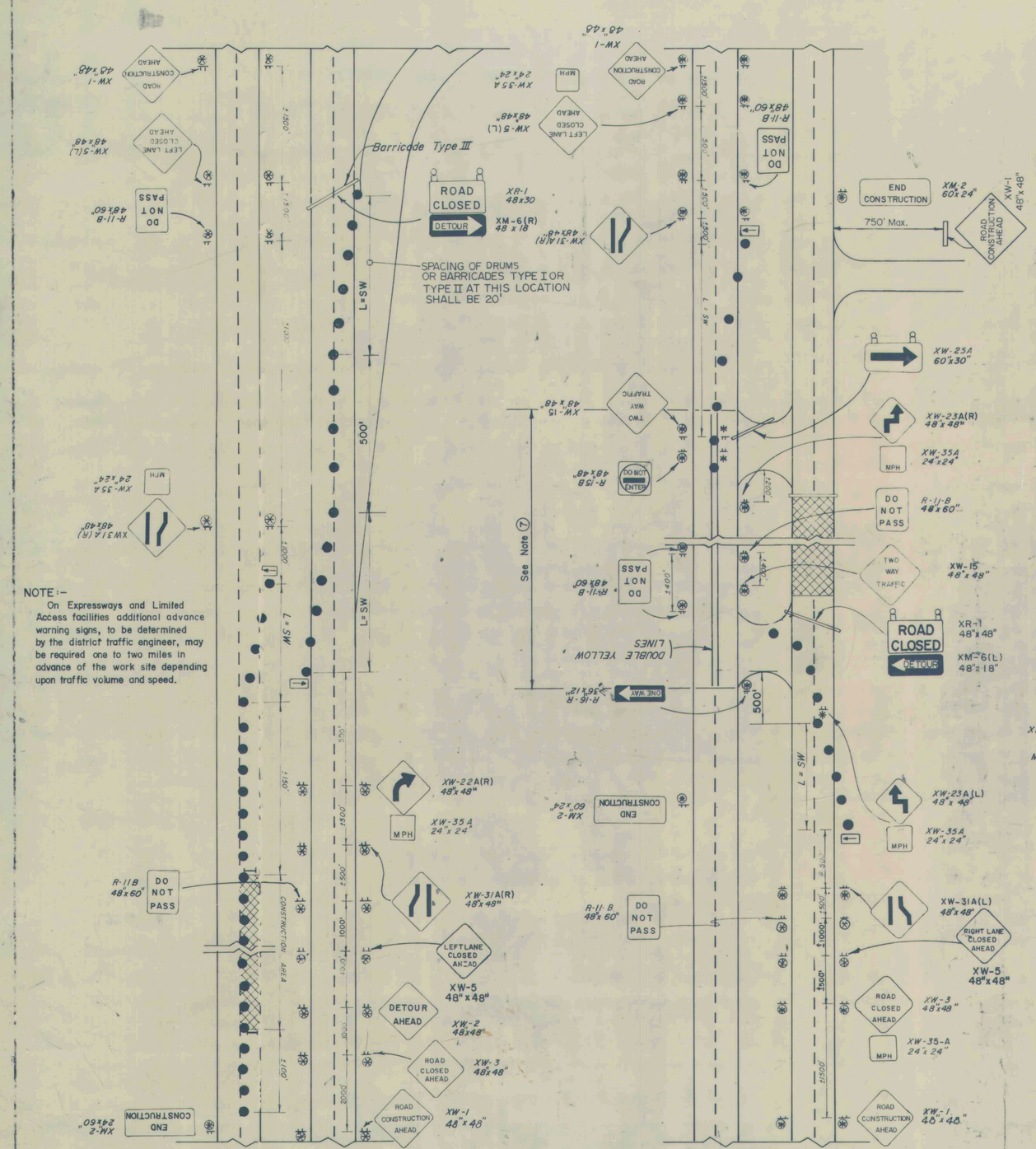
RECORD DRAWING

ERIC RESKE REGISTERED ER 10134 STATE OF INDIANA PROFESSIONAL ENGINEER

PAVEMENT REPAIR DETAILS		
Scale: None	FALL CREEK R.W.D.	Sheet
Drawn By: V.M.S.	BEAM, LONGEST & NEFF	85
Designed By: G.D.L.	Consulting Engineers	
Certified By: E.R.	8136 Castleton Road Indianapolis In. 46250	

DIV 4+8

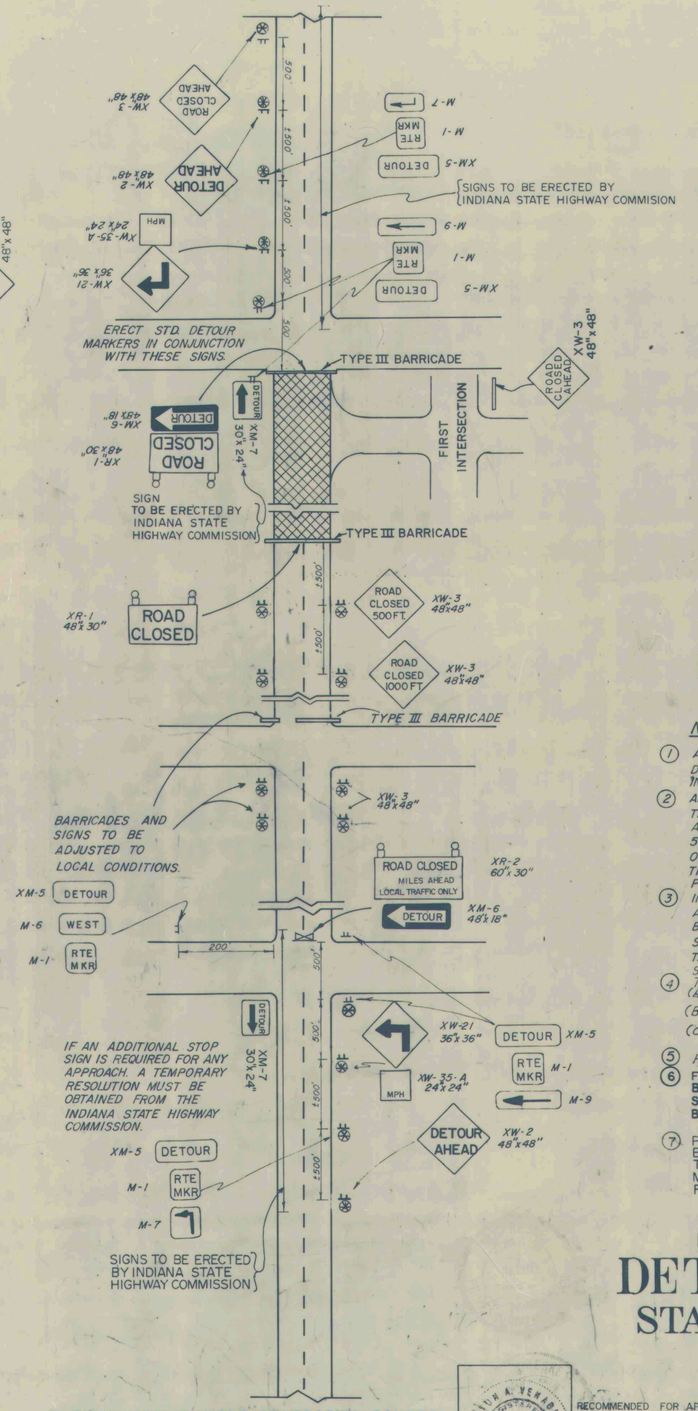
MARBAUGH N3650R



NOTE :-
On Expressways and Limited Access facilities additional advance warning signs, to be determined by the district traffic engineer, may be required one to two miles in advance of the work site depending upon traffic volume and speed.

TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES ON INTERSTATE HIGHWAYS

TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES ON 4-LANE DIVIDED HIGHWAY WHERE ONE ROADWAY IS CLOSED



TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES WHERE A ROAD IS CLOSED BEYOND A DETOUR POINT

LEGEND

- FLASHING ARROW SIGN TO BE PLACED AT BEGINNING OF TAPER
- TYPE III BARRICADE
- DRUM OR BARRICADES TYPE I OR II WITH TYPE "C" STEADY BURNING LIGHT
- LOW INTENSITY FLASHING YELLOW LIGHT (TYPE 'A')
- HIGH INTENSITY FLASHING YELLOW LIGHT (TYPE 'B')

F.F.T.F. - FARM FIELD TYPE FENCE
C.L.T.F. - CHAIN LINK TYPE FENCE
L.A. R/W - LIMITED ACCESS RIGHT-OF-WAY
A.C.L. - ACCESS CONTROL LINE
L - MINIMUM LENGTH OF TAPER
S - POSTED SPEED LIMIT
W - WIDTH OF OFFSET IN FEET
- BARRICADE TYPE X WITH TWO HIGH INTENSITY FLASHING YELLOW LIGHTS (TYPE "B")

NOTE

1. APPROVED LIGHTS SHALL MARK BARRICADES, DRUMS AND SIGNS CONTINUOUSLY AT NIGHT; EXCEPT FOR HIGH INTENSITY FLASHING LIGHTS WHICH SHALL OPERATE CONTINUOUSLY OVER A 24-HOUR PERIOD.
2. ALL SIGNS SHALL BE MOUNTED IN SUCH A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 5 FEET AND THE HORIZONTAL DISTANCE FROM THE EDGE OF PAVEMENT TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 12 FEET (R/W Permiting) OR 6 FEET FROM THE EDGE OF A PAVED SHOULDER.
3. IN CURBED AREA ALL SIGNS SHALL BE MOUNTED IN SUCH A A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 7 FEET AND THE HORIZONTAL DISTANCE FROM THE EDGE OF PAVEMENT TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 2 FEET.
4. The Spacing of drums and Barricades Type I & II shall be as follows:
   (a) For tapers, the spacing shall be numerically equal to the posted speed limit with a minimum spacing of 20 feet.
   (b) For tangents, when the posted speed limit is 40 M.P.H. or greater, the spacing shall be 100 feet.
   (c) For tangents, when the posted speed limit is less than 40 M.P.H., the spacing shall be 50 feet.
5. High Intensity Flashing Yellow Lights (Type "B") To Be omitted.
6. FOR TEMPORARY LANE CLOSURE DURING DAYLIGHT HOURS, CONES MAY BE USED IN LIEU OF BARRELS OR TYPE I OR II BARRICADES. THE CONES SHALL BE A MINIMUM OF 28 "(INCHES) IN HEIGHT WITH BALLAST IN THE BOTTOM OR OTHER APPROVED DEVICE TO PREVENT TIPPING.
7. POSITIVE SEPARATION OF TWO-WAY TRAFFIC BETWEEN THE X-OVERS SHALL BE REQUIRED AS DIRECTED BY THE PROJECT ENGINEER. ALL ITEMS NECESSARY TO PROVIDE THIS POSITIVE SEPARATION SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC. REFER TO STANDARD DETOUR SIGNS SHEET 2-A FOR THE DETAIL OF A TYPICAL APPLICATION.

STANDARD DETOUR SIGNS
STATE OF INDIANA
APRIL 1972

CLINTON A. VENABLE — NO. 5344 — REGISTERED PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL: Donald F. Oetty 5-5-72 — ENGINEER OF TRAFFIC
APPROVED: Clinton A. Venable 5/5/72 — CHIEF, DIVISION OF TRAFFIC
APPROVED: [signature] 5-8-72 — CHIEF HIGHWAY ENGINEER

REVISIONS	
3-1-73	Legend
6-2-73	Sign Size
2-1-74	TEMPORARY CLOSURE AND LEGEND
6-1-76	New MUTCD
7-1-76	New MUTCD
12-1-76	XW-5 Sign
5-1-78	NOTE 6

REVISIONS	
8-1-79	Note 6 Location of Type "A" Light & XW-1
10-1-79	Location of Flashing Arrow Sign
11-1-79	X-Over Protection Note (7) & XM-7 Detour Sign
2-3-79	Spacing of Ramps
5-1-80	Cone Size (Note 6)
4-1-81	Signing of Intersecting Roads

SHEET 1 DETOURS

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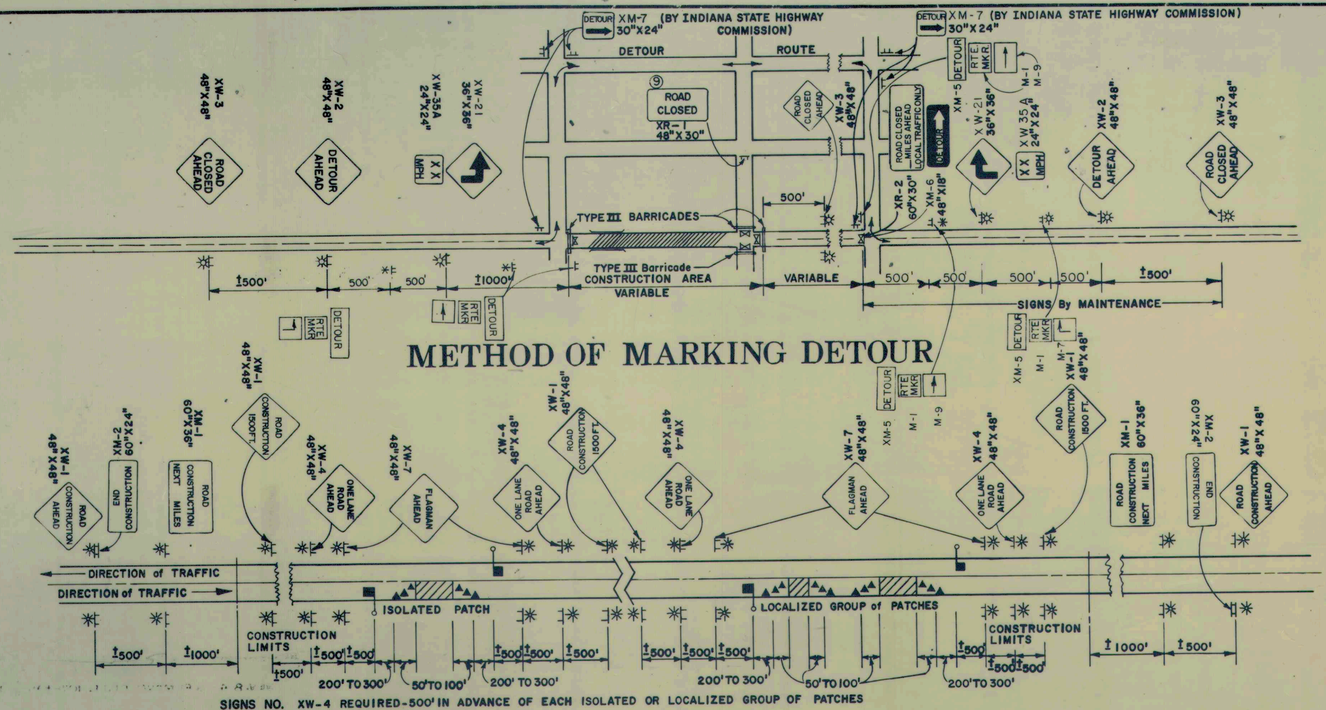
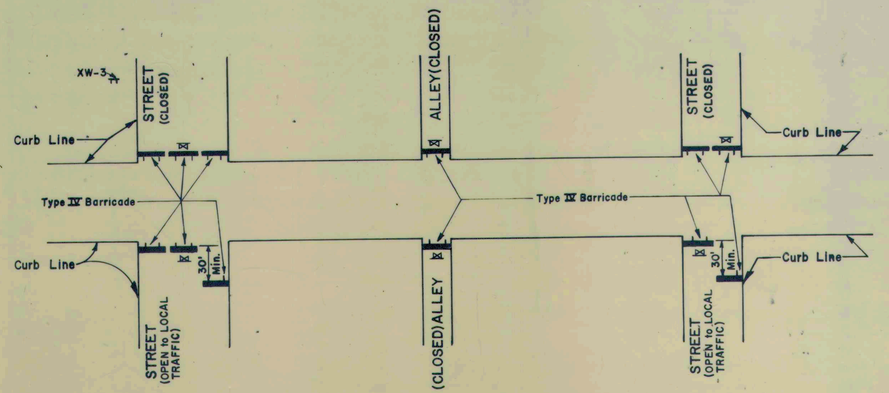
RECORD DRAWING

Sheet N° 86

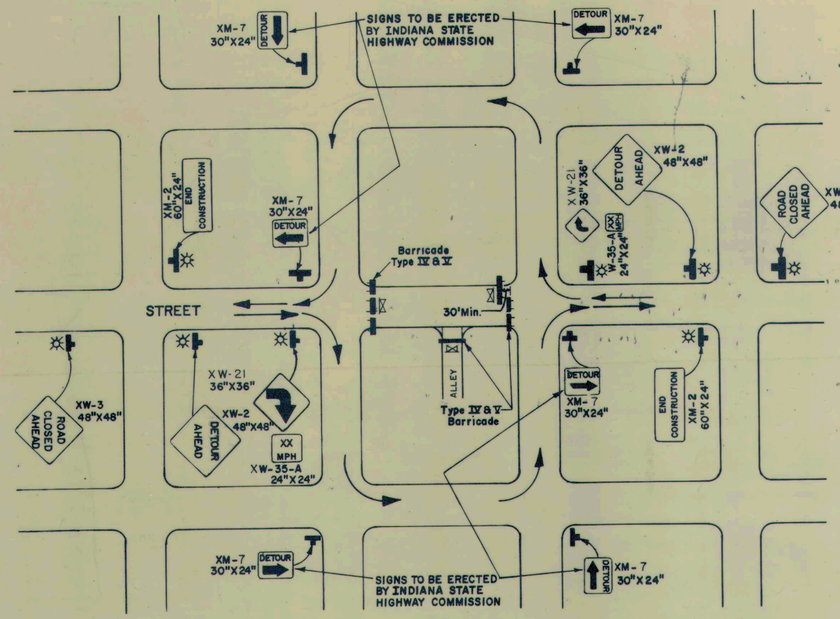


SIGNS NO. XW-4 REQUIRED-500' IN ADVANCE OF EACH ISOLATED OR LOCALIZED GROUP OF PATCHES

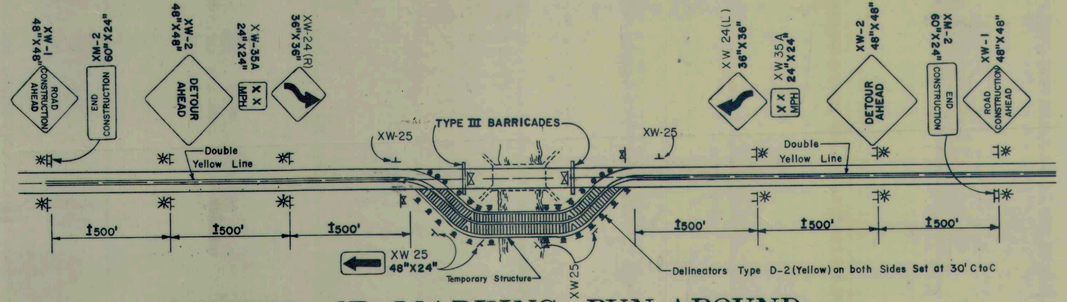
METHOD OF MARKING DETOUR



METHOD OF MARKING DETOUR -URBAN-



METHOD OF MARKING CONSTRUCTION UNDER TRAFFIC
(FOR SINGLE LANE TWO-WAY TRAFFIC)



METHOD OF MARKING RUN-AROUND

NOTE:

1. APPROVED LIGHTS SHALL MARK BARRICADES, DRUMS AND SIGNS CONTINUOUSLY AT NIGHT; EXCEPT FOR HIGH INTENSITY FLASHING LIGHTS WHICH SHALL OPERATE CONTINUOUSLY OVER A 24-HOUR PERIOD.
2. ALL SIGNS SHALL BE MOUNTED IN SUCH A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 5 FEET AND THE HORIZONTAL DISTANCE FROM THE PAVEMENT EDGE TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 12 FEET (R/W PERMITTING) OR 6 FEET FROM THE EDGE OF A PAVED SHOULDER.
3. IN CURBED AREAS ALL SIGNS SHALL BE MOUNTED IN SUCH A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 7 FEET AND THE HORIZONTAL DISTANCE FROM THE EDGE OF PAVEMENT TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 2 FEET.
4. SIGNS AND BARRICADES ARE TO BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT SUCH POINTS AS MAY BE DESIGNATED ON THE PLANS OR BY THE ENGINEER.
5. THE INDIANA STATE HIGHWAY COMMISSION WILL DESIGNATE THE DETOUR ROUTE AND WILL ERECT AND MAINTAIN DIRECTION SIGNS AROUND THE DETOUR. IF TRAFFIC IS DETOURED IN ADVANCE OF THE FIRST TYPE III BARRICADE, THE INDIANA STATE HIGHWAY COMMISSION SHALL PLACE THE SIGNS, AS SHOWN, IN ADVANCE OF THE MARKED DETOUR.
6. SIGNS ARE TO BE MOUNTED ON TYPICAL SIGN STANDARDS OR ON POSTS AS INDICATED ON DETOUR SHEET No. 5. and 5A
7. ALL DRUMS AND BARRICADES ARE TO BE REFLECTORIZED BY USING REFLECTIVE SHEETING, AS SPECIFIED IN THE CURRENT "INDIANA STATE HIGHWAY STANDARD SPECIFICATIONS." THE ORANGE AND WHITE DEVICES SHALL HAVE BOTH COLORS REFLECTORIZED
8. BARRICADE TYPE V SHALL NOT BE PAID FOR WHEN USED IN CONJUNCTION WITH BARRICADE TYPE III, BUT SHALL BE INCLUDED IN THE COST OF THE BARRICADE.
9. TWO TYPE II HIGH INTENSITY YELLOW FLASHING WARNING LIGHTS SHALL BE MOUNTED ABOVE THE "ROAD CLOSED" SIGN

LEGEND

- Type III Barricade
- Metal Drum or Barricades Type I or II with Steady Burning Light (Type "C")
- Delineator Type D-2 (Yellow)
- Low Intensity Flashing Yellow Light (Type "A")
- Metal Drum or Barricades Type I or II with low Intensity Flashing Yellow Light (Type "A")
- Barricade Type V - With Two High Intensity Flashing Yellow Lights (Type "B") - see "STANDARD DETOUR" Sheet No. 2A
- Flagman

REVISIONS	
DATE	REMARKS
10-28-75	NOTES NO. 6 AND 7
3-1-76	LEGEND ● ▲ ⋈
6-1-76	New M.U.T.C.D.
7-1-76	New M.U.T.C.D.

STANDARD DETOUR SIGNS
STATE OF INDIANA
NOVEMBER 1974

RECOMMENDED FOR APPROVAL _____ ENGINEER OF TRAFFIC DESIGN & CONSTRUCTION

APPROVED _____ CHIEF, DIVISION OF TRAFFIC

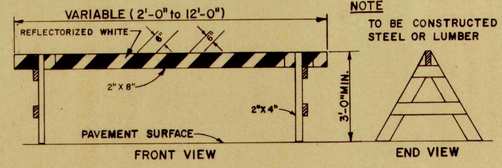
APPROVED _____ 1-21-75 CHIEF, HIGHWAY ENGINEER

SHEET 2 DETOURS

DECEMBER 1968

Sheet No. 87 63

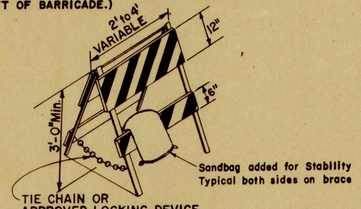
RECORD DRAWING



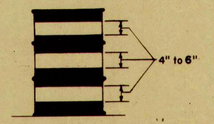
NOTE
TO BE CONSTRUCTED OF STEEL OR LUMBER

TYPE I

NOTE:
STRIPES SHALL SLOPE DOWNWARD TOWARDS THAT SIDE OF THE BARRICADE ON WHICH THE APPROACHING VEHICLE MUST PASS. (STRIPES AS SHOWN INDICATE VEHICLE MUST PASS TO LEFT OF BARRICADE.)



TYPE II

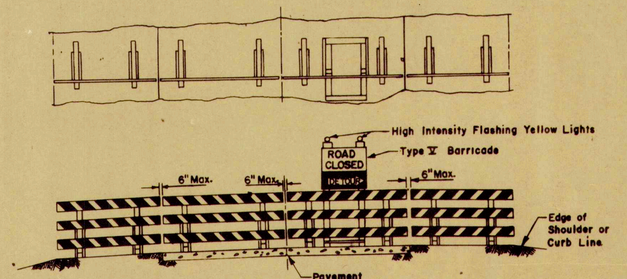


STANDARD METAL DRUM *

THE PREDOMINANT COLOR ON DRUMS SHALL BE BLACK OR ORANGE WITH AT LEAST TWO HORIZONTAL CIRCUMFERENTIAL WHITE STRIPES 4" TO 6" WIDE. DRUMS SHALL BE REFLECTORIZED. FOR USE AT NIGHT AND ADJUSTMENT DUE TO ODD SIZE DRUMS SHOULD BE DIVIDED BETWEEN THE UPPER AND LOWER STRIPES. THE WIDTH OF THE REFLECTIVE STRIPES SHOULD BE ADJUSTED TO PERMIT THE STRIPES TO BE PLACED ON FLAT SURFACES BETWEEN THE RAISED RIDGES IN AN ALTERNATING COLOR PATTERN. THIS WILL NORMALLY REQUIRE USE OF 5"(INCH) STRIPES. USE OF REFLECTIVE MATERIAL WILL NOT BE REQUIRED ON THE RAISED RIDGES OR ON FLAT SURFACES LESS THAN 5"(INCHES) WIDE. THE RAISED RIDGES AND SURFACES LESS THAN 5"(INCHES) IN WIDTH MAY BE PAINTED ORANGE OR WHITE.

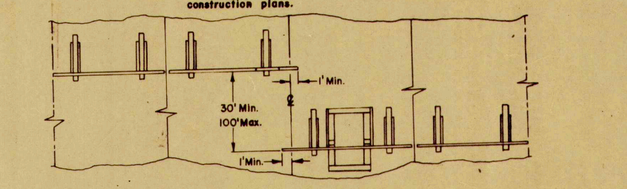
* UNTIL A NATIONAL POLICY HAS BEEN ADOPTED ATTENDING IS DIRECTED TO THE "INSTRUCTION TO BIDDERS" OF THE CONTRACT PROPOSAL FOR THE USE AND COLOR COMBINATION OF REFLECTIVE SHEETING ON BARRELS.

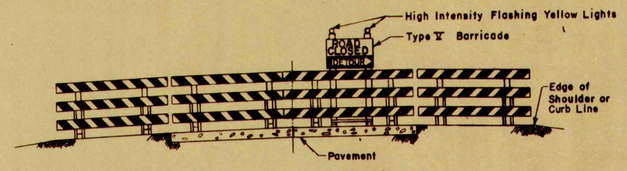
TYPICAL APPLICATIONS OF TYPE IV BARRICADES



ROAD CLOSED TO ALL TRAFFIC

The Barricade shall be to the edge of the shoulders except when otherwise directed by the Engineer or shown on the detailed construction plans.



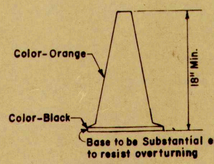


ROAD CLOSED TO THRU TRAFFIC

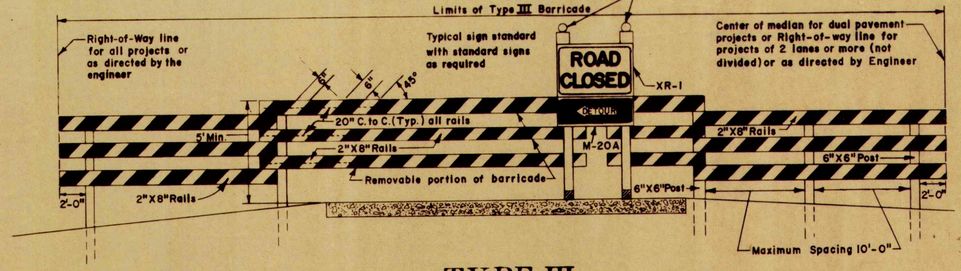
Reflectorized striping shall appear on both sides of barricades. The barricades shall be to the edge of the shoulders, except when otherwise directed by the Engineer or shown on the detailed construction plans.

NOTES

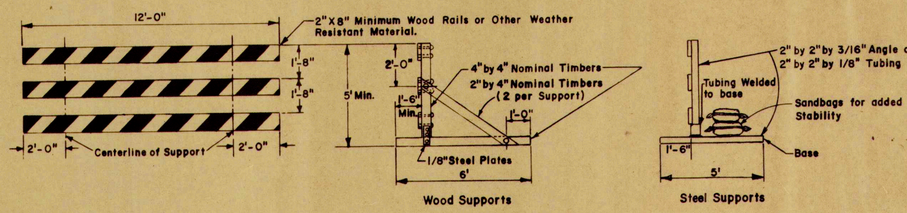
1.- For Installation of Barricades See Detour Sign Sheet No.2.
2.- Barricade Type IV shall be paid for at the Contract Unit Price per each for each 12'(foot) section used.
3.- Barricade Type V shall not be paid for when used in conjunction with Barricade Type III, but shall be included in the cost of the barricade.
4.- Barricade Type V shall be paid for at the Contract Unit Price per each when used in conjunction with the Barricade Type IV.
5.- Wood materials are to be untreated "Dimension Lumber" in accordance with the STANDARD SPECIFICATIONS.
6.- Typical Sign STANDARD shall be constructed same as that shown for Barricade Type V with the exception of the signs and Strap Iron brackets.
7.- The width of stripes on all Barricades shall be 6" or as shown and slope downward at a 45° angle toward that side of barricade on which the approaching vehicle must pass.
8.- For color of stripes on Barricades see Note No.7 on Detour Signs Sheet No. 2.
9.- For Type III and Type IV Barricades the stripes should slope downward in the direction toward which traffic must turn in Detouring, and where both Right and Left turns are provided for, the chevron stripping should slope downward in both directions from the center of the Barricade.
10.- As of Dec.31, 1975 the only color combination that will be permitted on Barricades and Drums is White and Orange.



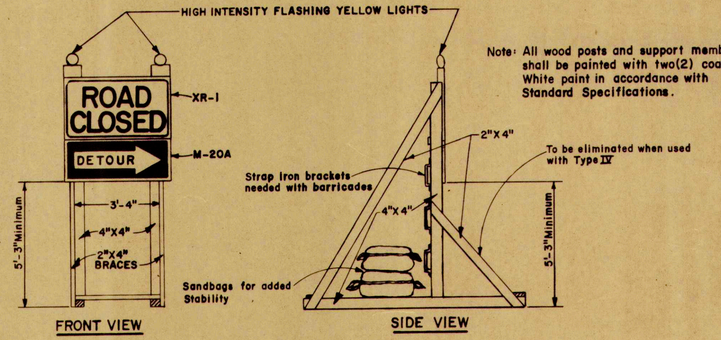
STANDARD CONE



TYPE III



TYPE IV



TYPE V

REVISIONS	
DATE	REMARKS

STANDARD BARRICADES

STANDARD DETOUR SIGNS
STATE OF INDIANA
NOVEMBER 1974

RECOMMENDED FOR APPROVAL _____ ENGINEER OF TRAFFIC DESIGN & CONSTRUCTION

APPROVED _____ CHIEF-DIVISION OF TRAFFIC

APPROVED _____ 1-21-75 CHIEF-HIGHWAY ENGINEER

SHEET 2A DETOURS

RECORD DRAWING

63A
SHEET 88

XW-1
48" X 48"
XW-1A
72" X 72"

XW-2
48"X48"

XW-3
48"X48"

XW-4
48"X48"

XW-5
R & L
48"X48"

XW-7
48" X 48"

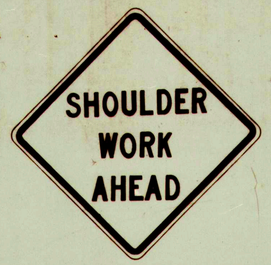
XW-8A
36"X36"

XW-9
30"x30"
XW-9A
36"x36"

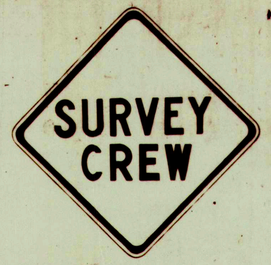
XW-10A
48"X48"

XW-11A
48"X48"

NOTE:
28"X10" METAL PLATE, COVERED WITH FEDERAL ORANGE REFLECTIVE MATERIAL, WITH BLACK NUMERALS DESIGNATING PREDETERMINED DISTANCE, MAY BE ATTACHED OVER THE WORD "AHEAD".
TO MORE SPECIFICALLY LOCATE THE SUBJECT HAZARD.



XW-12A
36"X36"

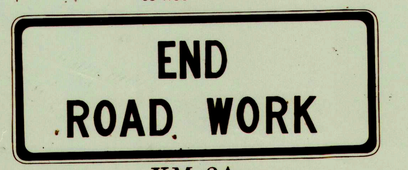


XW-13A
36"X36"

XW-63
48"x48"

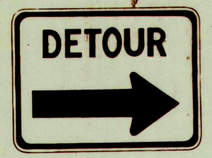
XM-4
36" X 18"

XM-1
60"X36"



XM-3A
60" X 24"

XM-2
60"X24"



XM-120
30"x 24"
XM-120A
60"x 48"

XM-20A
48"X18"
R or L

XR-1
48" X 30"

XR-2
60"X 30"

R-34A
24" x 30"
R-34B
36"x 48"

NOTES:
1. DESIGN DETAILS OF ALL SIGNS WILL BE FURNISHED ON WRITTEN REQUEST. THE "BACKGROUND FOR WARNING AND GUIDE SIGNS, (XW AND XM SERIES) SHALL BE FEDERAL ORANGE. THE BACKGROUND FOR ALL OTHER SIGNS SHOWN (R-34A, XR-1, AND XR-2) SHALL BE WHITE. ALL LETTERING AND BORDERS SHALL BE BLACK, NEATLY DONE, AND OF THE SIZE AND TYPE SPECIFIED.
2. ALL SIGNS ARE TO BE REFLECTORIZED BY USING REFLECTIVE SHEETING, AS SPECIFIED IN "INDIANA STANDARD SPECIFICATIONS", APPLIED TO THE ENTIRE BACKGROUND AREA OF THE SIGNS. THE REFLECTIVE SHEETING SHALL BE OF THE COLOR INDICATED IN THE DESIGN DETAILS.
3. ALL SIGNS SHALL BE MOUNTED IN SUCH A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 5 FEET AND THE HORIZONTAL DISTANCE FROM THE EDGE OF PAV'T TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 12 FEET. (R/W PERMITTING) OR 6 FEET FROM THE EDGE OF A PAVED SHOULDER.
4. SIGN NO. XW-10A SHALL BE PLACED AS DIRECTED BY THE ENGINEER WHERE ROAD MACHINERY IS OPERATING ON OR ACROSS PAVEMENT OPEN TO TRAFFIC, ALL AS PROVIDED BY THE SPECIFICATION.
5. THE FOLLOWING SIGNS XW-7, XW-8, XW-9, XW-10A AND XW-13 SHALL BE REMOVED, COVERED OR TURNED TO FACE AWAY FROM THE ROADWAY DURING NON-WORKING HOURS ALL OTHER SIGNS SHALL BE REMOVED, COVERED OR TURNED TO FACE AWAY FROM THE ROADWAY WHEN THE MESSAGE IS NOT APPLICABLE.
6. SIGNS CAN BE ORDERED TO READ, 500FT, 1000 FT. OR 1500 FT, IN PLACE OF THE WORD "AHEAD". THESE SIGNS CAN BE USED IN PLACE OF OR IN CONJUNCTION WITH SIGNS XW-1, 2, 3, 4, 5, 6, & 7.

STANDARD DETOUR SIGNS
STATE OF INDIANA
APRIL 1972

RECOMMENDED FOR APPROVAL _____ ENGINEER OF TRAFFIC

APPROVED Clinton A. Venable 5/5/72 CHIEF - DIVISION OF TRAFFIC

APPROVED _____ CHIEF HIGHWAY ENGINEER

REVISIONS	
11-1-72	XW1G3A
4-2-73	SIGN SIZE

SHEET 3 DETOURS

DECEMBER 1968

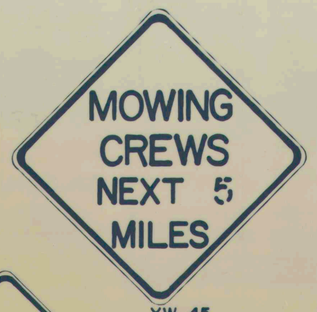
RECORD DRAWING

64

SHEET 89

XW-14
48"X48"

XW-44
36"X36"
XW-44A
48"X48"



XW-45
36"X36"
XW-45A
48"X48"

XW-50
60"X60"

D-25
9"X12"

XW-103
48"X48"

XW-105
48"X48"

XW-34
36"X36"

XW-43
36"X36"

XW-37
36"X36"
XW-37A
48"X48"

XW-51
60"X24"

TO BE USED BELOW A "XW-50" SIGN ONLY.

SIGN NUMBER	SIGN MESSAGE	SIGN SIZE	SIGN COLOR		BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES-LINE 1	LETTER HEIGHT SERIES-LINE 2	LETTER HEIGHT SERIES-LINE 3	LETTER HEIGHT SERIES-LINE 4	CORNER RADIUS	METHOD OF POST MOUNTING	
			BACKGROUND	COPY								SINGLE POST	DUAL POSTS
XW-14	BRIDGE OUT	48"X48"	ORANGE	BLACK	1-1/4"	3/4"	10"-SERIES "C"	10"-SERIES "C"			3"		X
D-25	SURVEY MONUMENT MARKER	9"X12"	WHITE	BLACK	1"	1/2"	1/2"-SERIES "D"	1"-SERIES "B"	1"-SERIES "B"	1"-SERIES "B"	1-1/2"	X	
XW-34	PAVEMENT ENDS	36"X36"	ORANGE	BLACK	7/8"	5/8"	6"-SERIES "C"	6"-SERIES "C"			2-1/4"		X
XW-37	RIGHT (LEFT) LANE ENDS	36"X36"	ORANGE	BLACK	7/8"	5/8"	6"-SERIES "D"	6"-SERIES "D"	6"-SERIES "D"		2-1/4"		X
XW-37A	RIGHT (LEFT) LANE ENDS	48"X48"	ORANGE	BLACK	1-1/4"	3/4"	8"-SERIES "D"	8"-SERIES "D"	8"-SERIES "D"		3"		X
XW-43	UTILITY WORK AHEAD	36"X36"	ORANGE	BLACK	7/8"	5/8"	6"-SERIES "D"	6"-SERIES "D"	6"-SERIES "D"		2-1/4"		X
XW-44	MOWING CREWS AHEAD	36"X36"	ORANGE	BLACK	7/8"	5/8"	6"-SERIES "C"	6"-SERIES "C"	6"-SERIES "C"		2-1/4"		X
XW-44A	MOWING CREWS AHEAD	48"X48"	ORANGE	BLACK	1-1/4"	3/4"	8"-SERIES "C"	8"-SERIES "C"	8"-SERIES "C"		3"		X
XW-45	MOWING CREWS NEXT ____ MILES	36"X36"	ORANGE	BLACK	7/8"	5/8"	6"-SERIES "C"	6"-SERIES "C"	4"-SERIES "C"	4"-SERIES "C"	2-1/4"		X
XW-45A	MOWING CREWS NEXT ____ MILES	48"X48"	ORANGE	BLACK	1-1/4"	3/4"	8"-SERIES "C"	8"-SERIES "C"	6"-SERIES "C"	6"-SERIES "C"	3"		X
XW-50	SLOWED OR STOPPED TRAFFIC AHEAD	60"X60"	ORANGE	BLACK	1-1/4"	3/4"	6"-SERIES "C"	6"-SERIES "C"	6"-SERIES "C"	6"-SERIES "C"	3"		X
XW-51	OVERHEAD SIGN INSTALLATION	60"X24"	ORANGE	BLACK	5/8"	3/8"	6"-SERIES "C"	6"-SERIES "C"			1-1/2"		X
XW-103	ALL TRAFFIC EXIT	48"X48"	ORANGE	BLACK	1-1/4"	3/4"	8"-SERIES "D"	8"-SERIES "D"	8"-SERIES "D"		3"		X
XW-105	ROAD REPAIRS NEXT ____ MILES	48"X48"	ORANGE	BLACK	1-1/4"	3/4"	8"-SERIES "C"	8"-SERIES "C"	6"-SERIES "C"	6"-SERIES"C"	3"		X

GENERAL NOTES:

1. SIGN LETTERING SHALL BE IN CLEAR OPEN CAPITAL LETTERS OF THE TYPE APPROVED BY THE JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES AND ITS SPONSORING AGENCIES. COMPLETE DETAILS MAY BE FOUND IN THE FEDERAL HIGHWAY ADMINISTRATION STANDARD ALPHABETS FOR HIGHWAY SIGNS, COPIES MAY BE OBTAINED BY WRITING THE "FEDERAL HIGHWAY ADMINISTRATION", DEPARTMENT of TRANSPORTATION, WASHINGTON, D.C. 20025.
2. THESE SIGN DESIGN DETAILS TO BE USED WITH THE STANDARD DETOUR SIGN SHEETS.
3. ALL SIGNS SHALL BE MOUNTED IN SUCH A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 5 FEET AND THE HORIZONTAL DISTANCE FROM THE EDGE OF PAV'T. TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 12 FEET (R/W PERMITTING) OR 6 FEET FROM THE EDGE OF A PAVED SHOULDER.
4. ALL WARNING SIGNS USED FOR CONSTRUCTION AND MAINTENANCE SHALL BE BLACK ON FEDERAL ORANGE (HIGH INTENSITY) REFLECTIVE SHEETING.
5. ALL SIGNS WITH WHITE BACKGROUND SHALL HAVE ENCLOSED LENS REFLECTIVE SHEETING (ENGINEER GRADE.)

REVISIONS	
DATE	REMARKS
10-28-75	XW-43
3-1-76	XW-43
6-1-76	NEW M.U.T.C.D.
4-1-77	NOTES 3,4&5

STANDARD DETOUR SIGNS
STATE OF INDIANA
FEBRUARY 1975

RECOMMENDED for APPROVAL Frank E. Donaldson
ENGINEER OF TRAFFIC DESIGN & CONSTRUCTION

APPROVED
CHIEF, DIVISION of TRAFFIC

APPROVED
CHIEF, HIGHWAY ENGINEER

RECORD DRAWING

SHEET 3A DETOURS

JULY, 1974

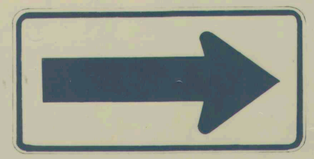
64A

Sheet No. 90

XWI-1-A(R or L)
36"X36"
XWI-1-B(R or L)
48"X48"

XWI-3-A(R or L)
36"X36"
XWI-3-B(R or L)
48"X48"

XWI-4-A(R or L)
36"X36"
XWI-4-B(R or L)
48"X48"



XWI-6
48"X24"
XWI-6-A
60"X30"

XW8-1-A
36"X36"
XW8-1-B
48"X48"

XW8-2-A
36"X36"
XW8-2-B
48"X48"

R2-1
24"X30"
R2-1-A
48"X60"

XW6-2a-A
36"X36"
XW6-2a-B
48"X48"

XW8-3-A
36"X36"

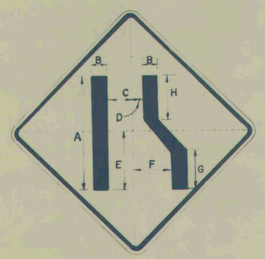
XW8-4-A
36"X36"
XW8-4-B
48"X48"

XWII-10-A
36"X36"
XWII-10-B
48"X48"

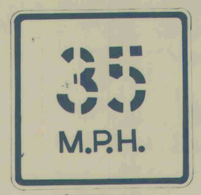
XWI-2-A(R or L)
36"X36"
XWI-2-B(R or L)
48"X48"

R4-1-A
36"X48"
R4-1-B
48"X60"

LANE ENDS		
	XW4-2	XW4-2-A
A	28"	37 3/8"
B	4"	5 5/16"
C	4"	5 5/16"
D	1"	1 3/8"
E	14"	18 11/16"
F	4"	5 5/16"
G	10"	13 5/16"
H	10"	13 5/16"



XW4-2(R or L)
36"X36"
XW4-2-A(R or L)
48"X48"



XWI3-1
18"X18"
XWI3-1-A
24"X24"
TO BE USED BELOW
A WARNING SIGN ONLY

R6-1(R or L)
36"X12"
R6-1-B(R or L)
72"X24"

R6-2-A(R or L)
24"X30"

* R5-1
Red Circle with white letters and white background
30"X30"
* R5-1-A
36"X36"

XW9-2-A(R or L)
48"X48"

STANDARD DETOUR SIGNS
STATE OF INDIANA
APRIL 1972

NOTE:
1. ALL SIGNS SHALL BE MOUNTED IN SUCH A MANNER THAT THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF THE PAVEMENT SHALL BE NOT LESS THAN 5 FEET AND THE HORIZONTAL DISTANCE FROM THE EDGE OF PAVEMENT TO THE EDGE OF SIGN SHALL NOT BE LESS THAN 12 FEET (R/W PERMITTING) OR 6 FEET FROM THE EDGE OF A PAVED SHOULDER.
2. ALL NOTES ON STANDARD DETOUR SIGNS SHEET (3) ALSO APPLY TO SIGNS ON THIS SHEET.
3. REFERENCE IS MADE TO "INDIANA STANDARD SPECIFICATIONS" FOR INSTALLATION AND PAYMENT PROCEEDURES.
4. ALL SIGNS ARE TO BE REFLECTORIZED BY USING REFLECTIVE SHEETING, AS SPECIFIED IN "INDIANA STANDARD SPECIFICATIONS", APPLIED TO THE ENTIRE BACKGROUND AREA OF THE SIGNS. THE REFLECTIVE SHEETING SHALL BE OF THE COLOR INDICATED IN THE DESIGN DETAILS.
5. ALL SIGNS WITH ORANGE BACKGROUNDS SHALL HAVE ENCAPSULATED LENS (HIGH INTENSITY) REFLECTIVE FEDERAL ORANGE SHEETING.
6. ALL SIGNS WITH WHITE BACKGROUNDS SHALL HAVE ENCLOSED LENS REFLECTIVE SHEETING (ENGINEER GRADE.)

* SIGNS R5-1 AND R5-1-A TO BE HIGH INTENSITY ENCAPSULATED SHEETING.

RECOMMENDED FOR APPROVAL _____ ENGINEER OF TRAFFIC

APPROVED _____ CHIEF DIVISION OF TRAFFIC

APPROVED _____ CHIEF HIGHWAY ENGINEER

REVISIONS	
3-1-73	W-35B
4-2-73	SIGN SIZE
10-1-74	* NOTE
6-1-76	NEW MUTCD
4-1-77	NOTES 5,6
7-1-82	NEW MUTCD

SHEET 4 DETOURS

SEPTEMBER 1963

RECORD DRAWING Sheet Nº 91

OTHER THAN EXPRESSWAYS AND FREEWAYS

SIGN NUMBER	SIGN MESSAGE	POST DESIGN 4"X4" WOOD	POST DESIGN GALVANIZED STEEL	SIGN SIZE	SIGN COLOR BACKGROUND	SIGN COLOR COPY	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES – LINE 1	LETTER HEIGHT SERIES – LINE 2	LETTER HEIGHT SERIES – LINE 3	LETTER HEIGHT SERIES – LINE 4	ARROW SIZE HEAD	ARROW SIZE SHAFT	CORNER RADIUS	NUMBER OF POSTS ONE	NUMBER OF POSTS TWO
XW-1	ROAD CONSTRUCTION AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES C	7"- SERIES C	7"- SERIES C				3"		X
XW-64	LANE ENDS MERGE _____ (LEFT OR RIGHT)	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES C	6"- SERIES D	6"- SERIES D				2¼"		X
XW-2	DETOUR AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	8"- SERIES D	8"- SERIES D					3"		X
XW-3	ROAD CLOSED AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES D	7"- SERIES D	7"- SERIES D				3"		X
XW-4	ONE LANE ROAD AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES C	7"- SERIES C	7"- SERIES C				3"		X
XW-5 (RT OR LT)	RIGHT LANE CLOSED AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES B	7"- SERIES C	7"- SERIES C				3"		X
XW-7	FLAGMAN AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES C	7"- SERIES C					3"		X
XW-8A	MEN WORKING	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES D	6"- SERIES D					2¼"		X
XW-9	FRESH OIL	*	A	30" X 30"	ORANGE	BLACK	¾"	½"	6"- SERIES D	6"- SERIES D					1⅛"	X	
XW-10A	ROAD MACHINERY AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES D	7"- SERIES D	7"- SERIES D				3"		X
XW-11A	ROAD WORK AHEAD	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	7"- SERIES D	7"- SERIES D	7"- SERIES D				3"		X
XW-12A	SHOULDER WORK AHEAD	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	5"- SERIES C	5"- SERIES C	5"- SERIES C				2¼"		X
XW-13A	SURVEY CREW	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES D	6"- SERIES D					2¼"		X
XR-1	ROAD CLOSED	*	A	48" X 30"	WHITE	BLACK	¾"	½"	8"- SERIES D	8"- SERIES D					1⅞"		X
XR-2	ROAD CLOSED ___ MILES AHEAD LOCAL TRAFFIC ONLY	*	A	60" X 30"	WHITE	BLACK	¾"	½"	6"- SERIES C	5"- SERIES C	4"- SERIES C				1⅞"		X
XW-63	TWO WAY TRAFFIC	*	A	48" X 48"	ORANGE	BLACK	1¼"	¾"	8"- SERIES C	8"- SERIES C	8"- SERIES C				3"		X
XM-1	ROAD CONSTRUCTION _____ MILES	*	A	60" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES C	6"- SERIES C	6"- SERIES C				2¼"		X
XM-2	END CONSTRUCTION	*	A	60" X 24"	ORANGE	BLACK	⅝"	⅜"	6"- SERIES C	6"- SERIES C					1½"		X
XM-3	END ROAD WORK	*	A	60" X 24"	ORANGE	BLACK	⅝"	⅜"	6"- SERIES C	6"- SERIES C					1½"		X
XM-4	PILOT CAR FOLLOW ME	—	—	36" X 18"	ORANGE	BLACK	⅝"	⅜"	5"- SERIES C	5"- SERIES C					1½"		X
XM-6	SECONDARY SYSTEM SIGN (COUNTY)	SEE SHEET 1 CONSTRUCTION IDENTIFICATION SIGNS		8'-0" X 4'-0"	WHITE	BLACK	1½"		ALL LETTERING TO CONFORM TO NOTES NO. 3 & 4 OF NOTES ON SHEET NO. 1 OF CONSTRUCTION IDENTIFICATION SIGNS.						8"	SEE SHEET 1 CONSTRUCTION IDENTIFICATION SIGNS	
XM-7	PRIMARY-SECONDARY SYSTEM SIGN(STATE)			8'-0" X 4'-0"	WHITE	BLACK	1½"								9"		
XM-8	INTERSTATE SYSTEM SIGN			12'-0" X 6'-0"	WHITE	BLACK	2"								12"		
W-1A (RT OR LT)	TURN SIGN	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"					10⅝" X 12"	5¼"	2¼"		X
W-3A (RT OR LT)	REVERSE TURN SIGN	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"					10⅝" X 12"	5¼"	2¼"		X
W-4A (RT OR LT)	REVERSE CURVE SIGN	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"					10⅝" X 12"	5¼"	2¼"		X
W-11	LARGE ARROW SIGN	*	A	48" X 24"	ORANGE	BLACK	⅞"	¾"					13⅜6" X 15"	25⅜6" X 6½"	1½"		X
W-16	BUMP	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	10"- SERIES D						2¼"		X
W-17A	DIP	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	10"- SERIES E						2¼"		X
W-21A	DIVIDED HIGHWAY ENDS	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	5"- SERIES D	5"- SERIES D	5"- SERIES D				2¼"		X
W-25A	PAVEMENT ENDS	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES C	6" SERIES C					2¼"		X
W-28A	SOFT SHOULDER	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES C	6"- SERIES C					2¼"		X
W-35A	ADVISORY SPEED SIGN	*	A	24" X 24"	ORANGE	BLACK	⅝"	⅜"	10"- SERIES E	4"- SERIES E					1½"		
W-45A	TRUCK CROSSING	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	6"- SERIES C	6"- SERIES C					2¼"		X
W-2A (RT OR LT)	CURVE SIGN	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"					10⅝" X 12"	5¼"	2¼"		X
R-2A	SPEED LIMIT	*	A	30" X 36"	WHITE	BLACK	¾"	½"	5"- SERIES E	5"- SERIES E	12"- SERIES D				1⅞"	X	
W-119A	LANE ENDS	*	A	36" X 36"	ORANGE	BLACK	⅞"	⅝"	SEE STANDARD DETOUR SHEET NO. 4						2¼"		X
R-11A	DO NOT PASS	*	A	30" X 36"	WHITE	BLACK	¾"	½"	7"- SERIES D	7"- SERIES D	7"- SERIES D				1⅞"		X
R-15A	DO NOT ENTER	*	A	36" X 36"	RED	WHITE	RADIUS	17½"	5"- SERIES D	6" X 30" BAR	5"- SERIES D				2¼"	X	
R-16 (RT OR LT)	ONE WAY ARROW	*	A	36" X 12"	BLACK & WHITE	BLACK		½"	4"- SERIES D				7½" X 8½"	22½" X 5¼"	1½"		X
R-34A	WEIGHT LIMIT __ TONS	*	A	24" X 30"	WHITE	BLACK	⅝"	⅜"	4"- SERIES D	4"- SERIES D	5"- SERIES E	5"- SERIES D			1½"	X	
																	X
XM-20A (RT OR LT)	DETOUR ARROW	*	A	48" X 18"	BLACK & ORANGE	BLACK		⅜"	6"- SERIES D				12" X 13½"	29¾" X 8¼"	1½"		X
XM-120 (RT OR LT)	DETOUR ARROW	*	A	30" X 24"	ORANGE	BLACK	⅝"	⅜"	5"- SERIES D				7⅛" X 8"	10⅛" X 3½"	1½"		X
R-116A (RT OR LT)	ONE WAY	*	A	24" X 30"	WHITE	BLACK	⅝"	⅜"	6"- SERIES D	6"- SERIES D			5¼" X 6"	8" X 2⅜"	1½"	X	

* SIZE OF WOOD POST REQUIRED.

GENERAL NOTES

1. SIGN LETTERING SHALL BE IN CLEAR OPEN CAPITAL LETTERS OF THE TYPE APPROVED BY THE JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES AND ITS SPONSORING AGENCIES. COMPLETE DETAILS MAY BE FOUND IN THE FEDERAL HIGHWAY ADMINISTRATION STANDARD ALPHABETS FOR HIGHWAY SIGNS.
2. ALL REFERENCES TO LETTER SERIES (A,B,C, ETC.) REFER TO THE STANDARD ALPHABET AS PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. COPIES MAY BE OBTAINED BY WRITING THE FEDERAL HIGHWAY ADMINISTRATION, DEPARTMENT OF TRANSPORTATION, WASHINGTON, D.C. 20025.
3. THESE SIGN DESIGN DETAILS TO BE USED WITH THE STANDARD DETOUR SIGN SHEETS.
4. THE WORD "CONSTRUCTION" WHEN USED ON 48"X48" DIAMOND SIGNS IN 7"C LETTERS, REQUIRES THAT THE SPACING BETWEEN LETTERS BE REDUCED TO 67% OF A.G.A. STANDARDS.
5. THE MINIMUM DEPTH FOR WOOD OR STEEL POSTS SHALL BE 36" FOR A, 40" FOR B, 42" FOR C, AND 36" FOR 4"X4".
6. BB MEANS BACK TO BACK POSTS.
7. TYPE A,B, AND C POSTS ARE SPECIFIED IN INDIANA STANDARD SPECIFICATIONS.
8. SIGN R15A TO BE HIGH INTENSITY ENCAPSULATED LENS SHEETING.

SIGN DESIGN DETAILS STATE OF INDIANA

APRIL 1972

RECOMMENDED FOP APPROVAL _____ ENGINEER OF TRAFFIC 5-5-72

APPROVED _____ CHIEF DIVISION OF TRAFFIC 5/5/72

APPROVED _____ CHIEF HIGHWAY ENGINEER 5-5-72

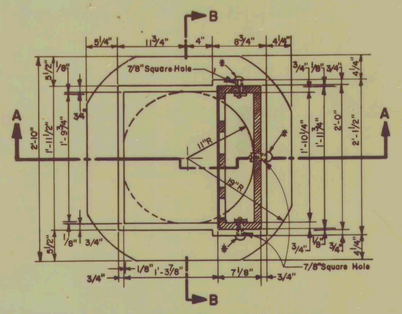
REVISIONS	
3-1-73	W-355
4-2-73	SIGN SIZE
10-1-74	NOTE 8

SHEET 5 DETOURS

RECORD DRAWING

SHEET 92

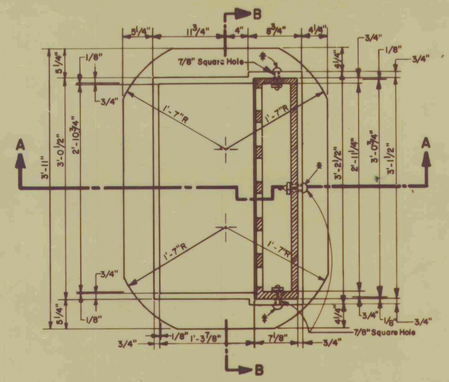
66



PLAN

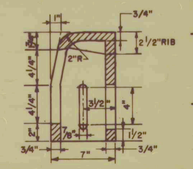
PLAN of CASTINGS TYPE 8 & 9 ARE SIMILAR.
FRAME and GRATING ARE THE SAME

* 3/4" x 3 1/2" Galvanized, Round-Head Square Shoulder Bolt with Lock Washer.

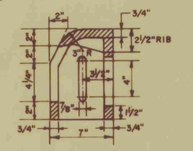


PLAN

PLAN of CASTINGS TYPE 10 & 11 ARE SIMILAR.
FRAME and GRATING ARE THE SAME



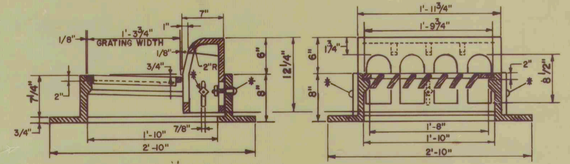
CURB CASTING SECTION
CASTINGS TYPE 8 & 10



CURB CASTING SECTION
CASTINGS TYPE 9 & 11

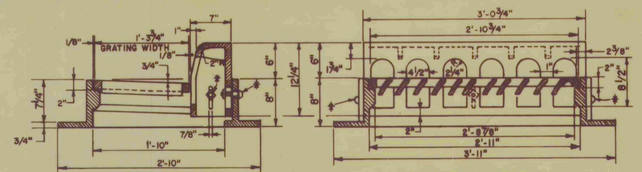
GENERAL NOTES

- All Grates and Manhole Covers shall be Cast of Ductile Iron or Steel and all Frames, Rings and Curb Boxes shall be cast of Gray Iron. Unless otherwise specified. See Section 909.05 of the STANDARD SPECIFICATION.
- Grates shall be placed with the MAXIMUM dimension of the RECTANGULAR OPENING parallel to the DIRECTION of FLOW, (CASTINGS TYPE 13 and 14).



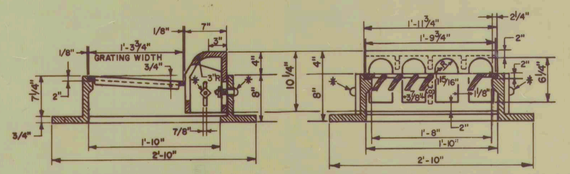
SECTION "A-A" SECTION "B-B"

CASTING TYPE 8



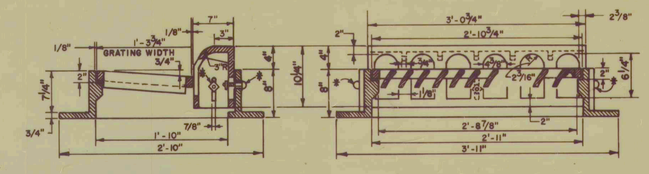
SECTION "A-A" SECTION "B-B"

CASTING TYPE 10



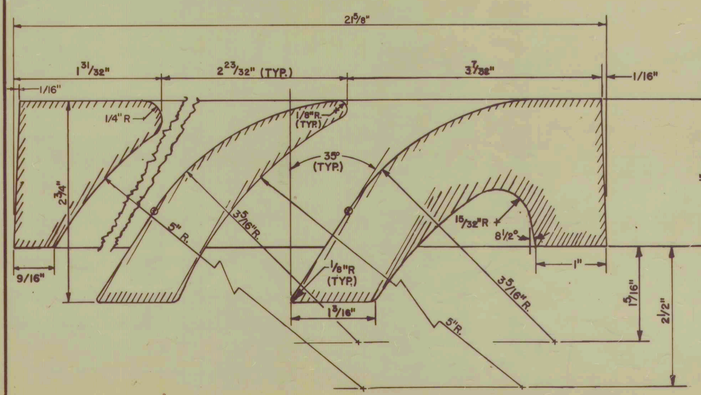
SECTION "A-A" SECTION "B-B"

CASTING TYPE 9

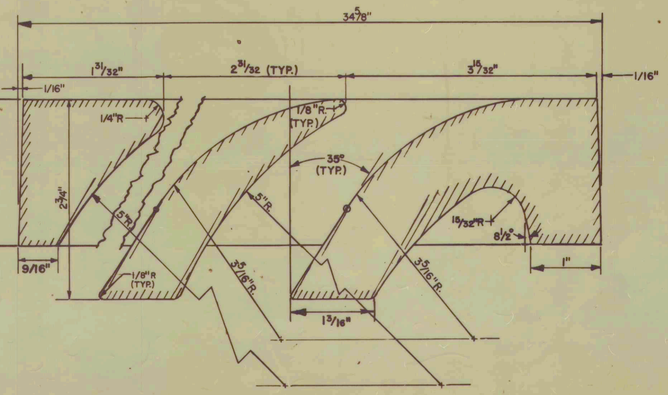


SECTION "A-A" SECTION "B-B"

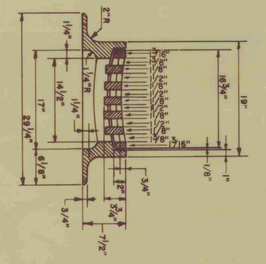
CASTING TYPE 11



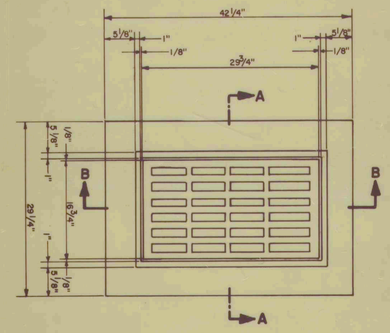
FIN DETAIL FOR CASTINGS TYPE 8 & 9



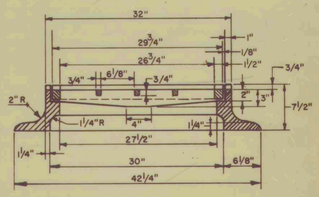
FIN DETAIL FOR CASTINGS TYPE 10 & 11



SECTION "A-A"

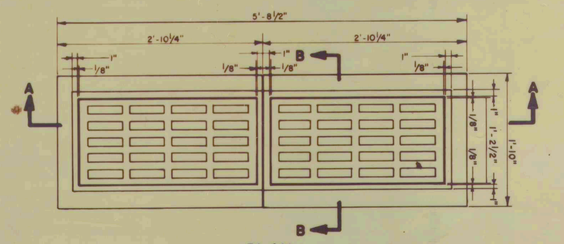


PLAN

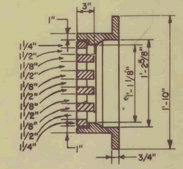


SECTION "B-B"

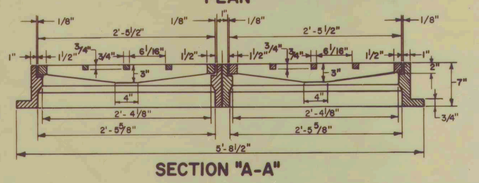
CASTING TYPE 13



PLAN



SECTION "B-B"



SECTION "A-A"

CASTING TYPE 14

REVISIONS	
DATE	REMARKS

MISCELLANEOUS STANDARDS
STATE OF INDIANA
SEPT. 1974

RECOMMENDED for APPROVAL Byron R. Burch 9/4/74
ENGINEER of ROAD DESIGN

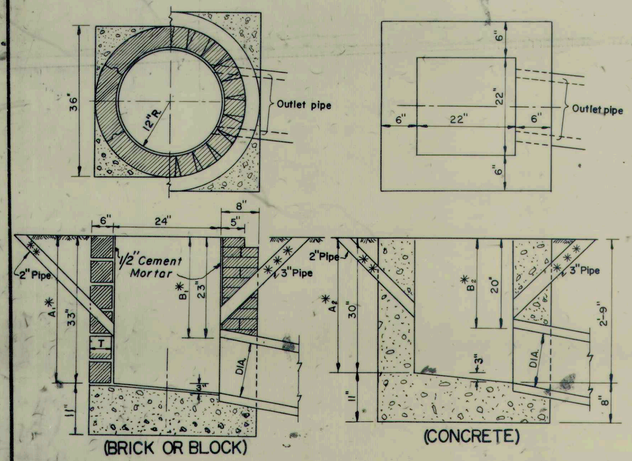
APPROVED J R Yoder 9/25/74
CHIEF DIVISION of DESIGN

APPROVED J K Hallock 9-26-74
CHIEF HIGHWAY ENGINEER

SHEET MC1

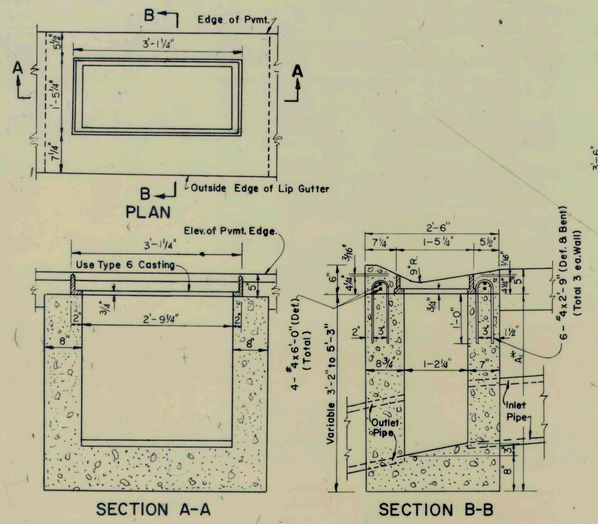
DECEMBER 1968

RECORD DRAWING SHEET NO. 94

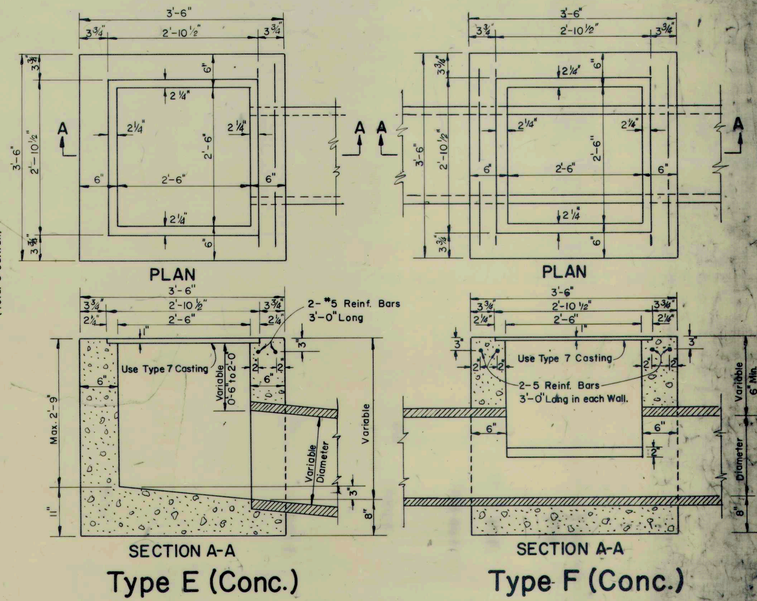


NOTE:- Use of Brick, Block or Concrete permissible.

Type A



Type D (Conc.)



Type E (Conc.)

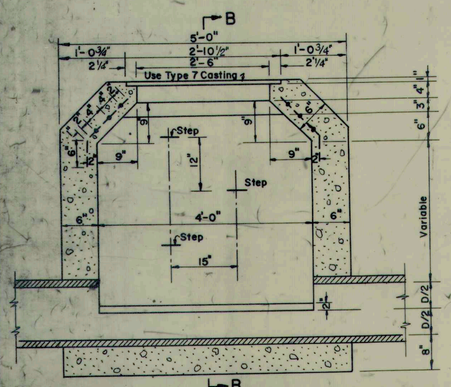
Type F (Conc.)

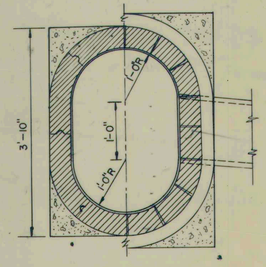
* In special cases or where inlet pipe is required dimensions A_1, B_1, A_2 & B_2 shall be increased or decreased 12", as directed.

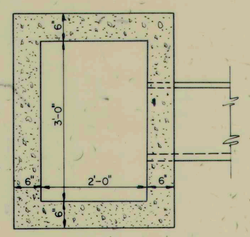
** 2" Pipe drain from bottom of curb to inlet. Aggregate to be placed around inlet end of pipe.

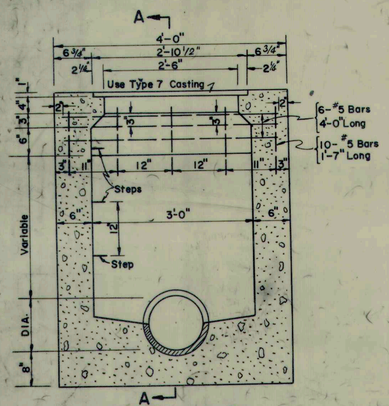
*** 3" Min. Dia. Pipe to be kept open for drainage of subgrade or base until surface is placed

NOTE:
T = 8" For Brick Structure
T = 6" For Segmental Block Structure

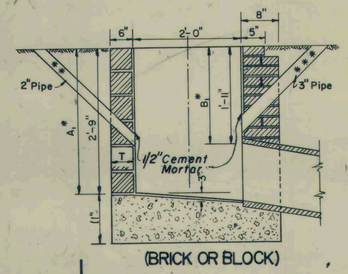


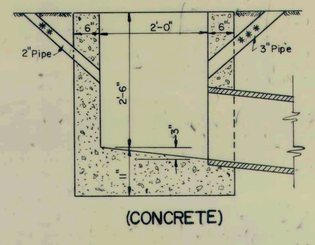






Type G (Conc.)



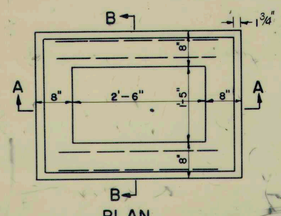


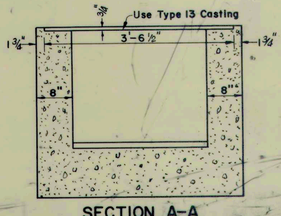
NOTE:- Use of Brick, Block or Concrete permissibe.

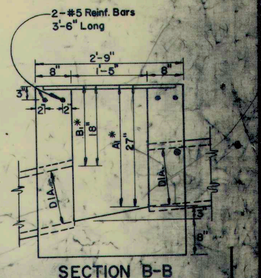
Type J

NOTE:
THE CONTRACTOR MAY BE PERMITTED TO PRECAST INLETS SUBJECT TO THE APPROVAL OF THE ENGINEER AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

Type M (Conc.)







Type R (Conc.)

MISCELLANEOUS STANDARDS
STATE OF INDIANA
DEC. 1964

RECOMMENDED FOR APPROVAL C.J. Kingelhoefer
ENGINEER OF PLANS & SPECIFICATIONS

APPROVED W.W. Stevenson
CHIEF DIVISION OF DESIGN

APPROVED L.E. Ahlbrecht
CHIEF ENGINEER

REVISIONS	
8-31-65	TYPE 'R'
10-8-65	"R"
5-6-68	TYPE "R-1"
4-1-70	REMOVAL OF TYPE 'C' FL.
10-1-70	1/2" MORTAR
3-1-71	NOTE

SHEET M D

INLETS

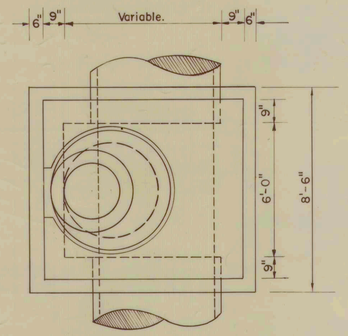
SCALE:- 3/4" = 1'-0"

November 6, 1961

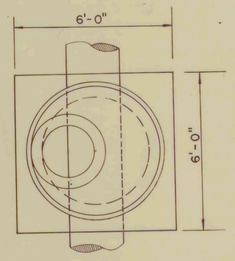
RECORD DRAWING

SHEET NO. 95

10



CONE HEIGHTS *	
ECCENTRIC	CONCENTRIC
2'-6"	2'-6"
3'-0"	3'-0"
3'-2"	3'-2"
3'-6"	4'-0"



GENERAL NOTE

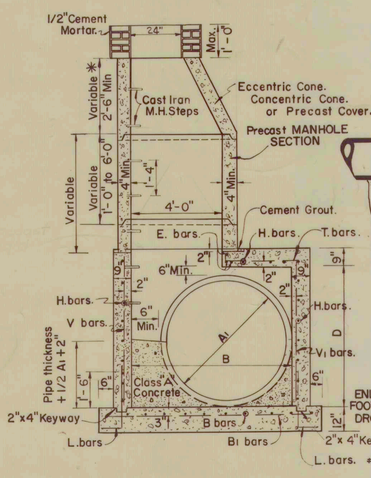
BOTTOM SHALL BE CONSTRUCTED OF PRECAST BOTTOM SECTION OR CLASS "A" CONCRETE FORMED IN PLACE AND INCLUDED IN THE CONTRACT UNIT PRICE FOR MANHOLE OR CATCH BASIN AS THE CASE MAY BE.

ALL PRECAST MANHOLE AND CATCH BASIN MATERIAL SHALL CONFORM TO A.S.T.M. C-478 AND THE STANDARD SPECIFICATIONS (MIN. SQ.IN. OF REINFORCING STEEL PER LINEAL FOOT SHALL BE 0.12)

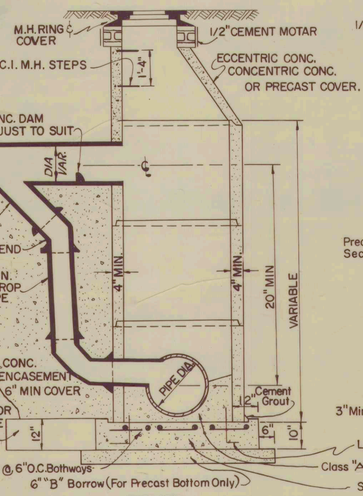
A 6" CUSHION OF B BORROW SHALL BE REQUIRED WHEN THE PRECAST BOTTOM SECTION IS USED AND SHALL BE PAID FOR IN THE CONTRACT UNIT PRICE FOR MANHOLE OR CATCHBASIN AS THE CASE MAY BE.

WATERPROOFING MATERIAL SHALL CONFORM TO AASHO, M 115 AND THE STANDARD SPECIFICATIONS.

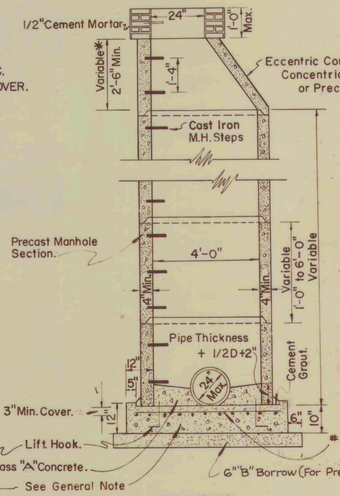
BASIS OF PAYMENT FOR MANHOLES AND CATCH BASIN SHALL BE AS SET OUT IN THE STANDARD SPECIFICATIONS.



MANHOLE TYPE D,E,F, or G
(See Table)
SCALE :- 3/8" = 1'-0"

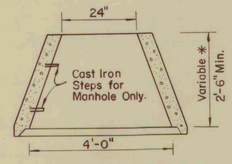


SECTION
‡ DROP MANHOLE TYPE "C"
SCALE 3/8"=1'-0"

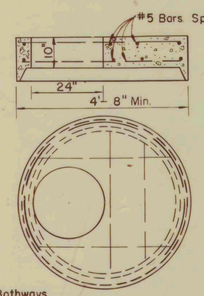


SECTION
MANHOLE TYPE -"C"
SCALE :- 3/8"=1'-0"

‡ Drop pipe may be used with Manhole Type D,E,F or G.
and referred to as Drop Manhole Type D,E,F or G.



CONCENTRIC CONE.
SCALE :- 1/2"=1'-0"



NOTE :-
PRECAST COVER SHALL BE USED WHERE HEADROOM IS LIMITED.

PRECAST COVER
SCALE :- 1/2"=1'-0"

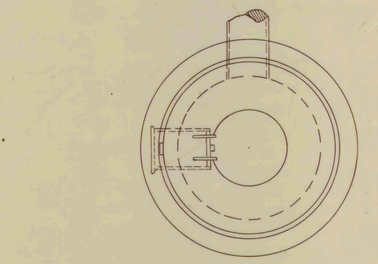
GENERAL NOTES

CONCENTRIC CONCRETE SECTION WILL NOT BE PERMITTED ON ANY MANHOLE THAT WILL BE UNDER THE JURISDICTION OF THE INDIANAPOLIS SANITARY DISTRICT.

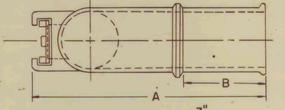
THE CONTRACTOR WILL BE PERMITTED TO SUBSTITUTE PRECAST MANHOLE TYPE "C" FOR MANHOLE TYPE "A" OR "B" AND PRECAST CATCH BASINS TYPE "W" FOR CATCH BASIN TYPE "A".

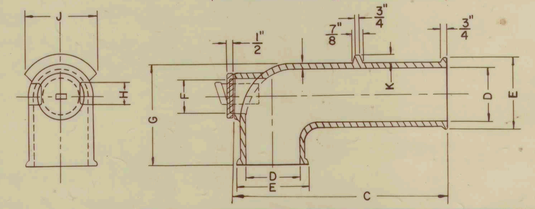
JOINTS BETWEEN SECTIONS OF PRECAST MANHOLES AND PRECAST CATCH BASINS SHALL BE IN ACCORDANCE WITH ASTM C-443.

AIR-ENTRAINED CONCRETE WILL NOT BE REQUIRED IN THE PRECAST PORTION OF THE CONCRETE MANHOLE AND CATCH BASIN.



CATCH BASIN TYPE -"W"
SCALE :- 1/2"= 1'-0"



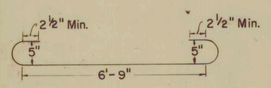


CATCH BASIN HOOD SHALL BE MADE FROM GRAY CAST IRON AND CONFORM TO AASHO, M105 AND THE STANDARD SPECIFICATIONS.

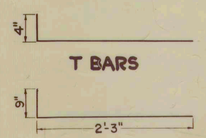
SIZE	A	B	C	D	E	F	G	H	J	K
12"	31 1/4	6"	28 5/8"	12"	13 5/8"	8"	17"	4"	—	—
15"	34"	6"	31 1/2"	15"	16 5/8"	8"	21 1/4"	4"	16"	2"
18"	36 5/8"	6 1/2"	34"	18"	19 5/8"	8"	24 1/2"	4"	20"	2"

DETAIL OF PRECAST CATCHBASIN HOODS
NOT TO SCALE

REINFORCING STEEL FOR MANHOLES															
	Manhole Type "D"				Manhole Type "E"				Manhole Type "F"				Manhole Type "G"			
Bars	Length	No.	Spa.	Size	Length	No.	Spa.	Size	Length	No.	Spa.	Size	Length	No.	Spa.	Size
B	8'-0"	10	9"	#5	8'-0"	12	9"	#5	8'-0"	16	9"	#5	8'-0"	19	9"	#5
B1	6'-9"	12	9"	#5	8'-6"	12	9"	#5	11'-0"	12	9"	#5	13'-3"	12	9"	#5
E	7'-3"	3	2"	#5	7'-3"	3	7"	#5	7'-3"	3	2"	#5	7'-3"	3	2"	#5
H	8'-6"	22	6"	#5	8'-6"	33	6"	#5	8'-6"	41	6"	#5	8'-6"	58	6"	#5
L	3'-0"	16	12"	#5	3'-0"	16	12"	#5	3'-0"	16	12"	#5	3'-0"	16	12"	#5
T	1'-3"	16	6"	#5	3'-0"	16	6"	#5	5'-3"	16	6"	#5	7'-6"	16	6"	#5
V	5'-0"	16	6"	#5	6'-9"	16	6"	#5	9'-0"	16	6"	#5	11'-6"	16	6"	#5
V1	4'-9"	16	6"	#5	6'-6"	16	6"	#5	8'-9"	16	6"	#5	11'-3"	16	6"	#5

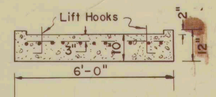


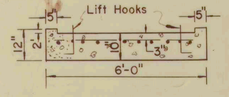
H BARS

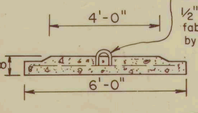


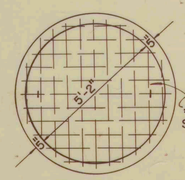
L BARS

MANHOLE DIMENSIONS		
TYPE	A-1 PIPE SIZE DIA(INCHE)	B & D
D	27"To 42"	4'-9"
E	48"To 60"	6'-6"
F	66"To 84"	8'-10"
G	90"To 108"	11'-2"

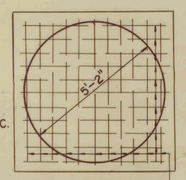








ROUND



SQUARE

ROUND ALTERNATE

PRECAST BOTTOM SECTION
SCALE :- 3/8"=1'-0"

#4 Bars 5'-6" Long Spaced 6" C. to C.

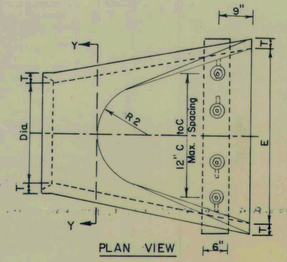
MISCELLANEOUS STANDARDS

RECORD DRAWING

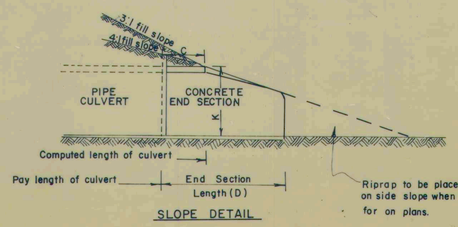
REVISIONS	
6-6-66	General Notes
9-1-66	Drop Manhole
6-26-68	Gen. Notes
7-26-68	Gen. Notes
8-1-69	1969 Spec.
1-6-71	1971 Specs
5-1-71	Precast Batt.
1-2-74	1974 Specs

SHEET MD3

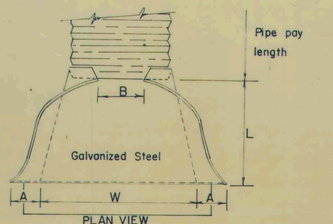
SHEET NO. 96



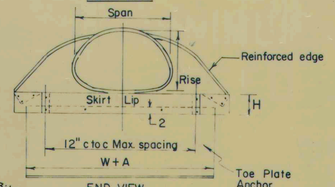
PLAN VIEW



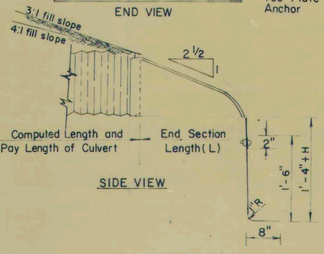
SLOPE DETAIL



PLAN VIEW



END VIEW



SIDE VIEW

PIPE ARCH DIMENSIONS		T	DIMENSIONS					SLOPE approx.	BODY
SPAN	RISE	in.	A (1"±)	B (Max)	H (1"±)	L (1 1/2"±)	W (2"±)		
18	11	.064	7	9	6	19	30	2 1/2 : 1	1 Pc.
22	13	.064	7	10	6	23	36	2/2 : 1	1 Pc.
25	16	.064	8	12	6	28	42	2 1/2 : 1	1 Pc.
29	18	.064	9	14	6	32	48	2 1/2 : 1	1 Pc.
36	22	.079	10	16	6	39	60	2 1/2 : 1	1 Pc.
43	27	.079	12	18	8	46	75	2 1/2 : 1	1 Pc.

PIPE DIA.	T in.	DIMENSIONS					SLOPE approx	BODY
		A (1"±)	B (Max)	H (1"±)	L (1 1/2"±)	W (2"±)		
12	.064	6	6	6	21	24	2 1/2 : 1	1 Pc.
15	.064	7	8	6	26	30	2 1/2 : 1	1 Pc.
18	.064	8	10	6	31	36	2 1/2 : 1	1 Pc.
21	.064	9	12	6	36	42	2 1/2 : 1	1 Pc.
24	.064	10	13	6	41	48	2 1/2 : 1	1 Pc.
30	.079	12	16	8	51	60	2 1/2 : 1	1 Pc.
36	.079	14	19	9	60	72	2 1/2 : 1	2 Pc.

1. End sections and Toe Plate Anchors shall conform to all applicable requirements as set out in the Standard Specifications.

2. Multiple panel bodies shall have lap seams which shall be tightly jointed with 3/8" ϕ galvanized rivets or bolts.

3. The toe plate anchor shall be constructed of 0.138" Thickness Galvanized steel and be required on all steel pipe end section. It shall be matched-punched to fit holes in skirt lip and supplied loose, complete with 3/8" ϕ galvanized bolts. Cost thereof shall be included in the contract unit price per each for Pipe End Section.

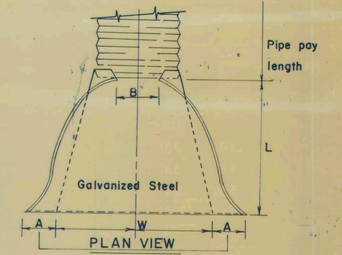
4. Pimpled Connection Band may be used to connect Pipe End Section to Helically Corrugated pipe.

5. If aluminum alloy pipe culvert is furnished, aluminum alloy end sections shall also be used and all component parts shall be aluminum alloy as set out in the Standard Specifications.

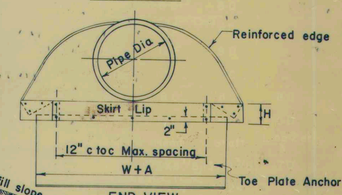
6. End sections will be paid for at the contact unit price each for Pipe End Section complete in place and accepted.

7. Where Vitrified Clay Culvert or Cast Iron Culvert pipe is used a Pipe End Section comparable to that as shown for Metal or Concrete shall be furnished and shall be as approved by the Engineer.

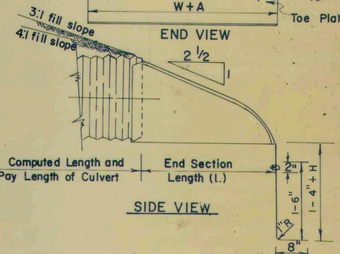
8. In areas of Acid or Mine Water the "Pipe End Section" shall be metal and shall be either Asbestos Bonded Fully Bituminous Coated with paved invert or of a metal of equal resistance to Acid or Mine Water.



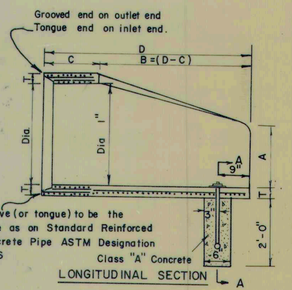
PLAN VIEW



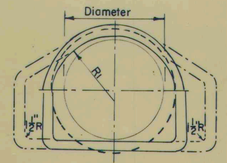
END VIEW



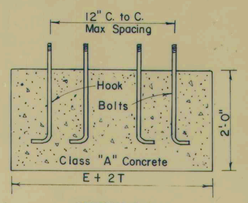
SIDE VIEW



LONGITUDINAL SECTION



SECTION Y-Y



SECTION A-A

Concrete Pipe Toe Anchor

DEMENSIONS									
DIA.	T(min)	A±	C±	D±	E±	K	R1	R2	APPROX. WEIGHT
12"	2"	5"	4-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	16 3/16	14"	1800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	18 9/16"	14 1/2"	2100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 1/2"	15"	2400
33"	3 3/4"	1'-3"	3'-6"	8'-3"	5'-6"	3.1	23 3/4"	17 1/2"	4100
36"	4"	1'-5"	3'-1"	8'-3"	6'-0"	3.4	24 5/16	20"	4200

± Tolerance ± 1"

1. Concrete in these end sections shall be the same grade and strength as specified for reinforced concrete pipe, A.S.T.M. designation C76 CLASS II. (As set out in the Standard Specifications

2. Reinforcement in the "C" Portion shall be the same as specified for reinforced concrete, A.S.T.M. designation C76, CLASS II for the size of connecting pipe.

3. Reinforcement in the "B" Portion shall have a cross-sectional area equal to that of one layer of steel in the "C" Portion.

4. The end of the pipe culvert shall be placed in the concrete end section so that the flow lines are flush. The joint shall be completely filled with mortar.

5. In 3:1 or 4:1 fill slope, change to the slope of the end section in a smooth, pleasing transition approximately 10'-0" in length.

6. Variations in Dimensions - The thickness of the concrete, the position of steel, and the internal diameter of the pipe shall conform with the variations in dimensions as provided in the Specifications for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe, A.S.T.M. Designation C-76.

7. Where Vitrified Clay Culvert or Cast Iron Culvert pipe is used, a "Pipe End Section" comparable to that as shown for Metal or Concrete shall be furnished and shall be as approved by the Engineer.

8. End sections will be paid for at the contract unit price each for "Pipe End Section" complete in place and accepted.

9. Concrete pipe toe anchors shall be required on all concrete pipe sections. The cost thereof shall be included in the contract unit price per each for "Pipe End Sections"

10. For type of Pipe End Section permitted in Acid or Mine water areas see "Instruction to Bidders" of the contract proposal.

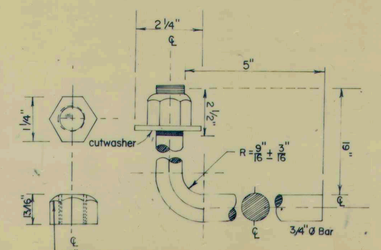
PRECAST CONCRETE · END SECTION

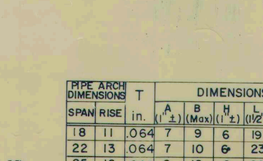
NOTE: Metal Pipe End Sections may be used with Concrete Pipe providing the method of connection is approved by the engineer prior to installation of pipe.

SPECIFICATION FOR HOOK BOLT & NUT

Hook Bolt material shall meet the current ASTM A-307. Threads shall be American Standard Coarse Thread Series, Class 2, Free Fit. Bolts shall be galvanized to meet current ASTM specification A-153. The threaded portion shall not prevent turning the nut by hand.

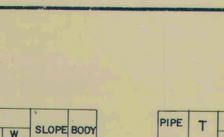
Nut and washers shall be carbon steel hot dip galvanized to meet ASTM specification A-153. Nut threads shall be American standard Coarse Thread Series (1/64" maximum oversize), cleaned after galvanizing to provide a free running fit on the Class 2 bolt. Nuts shall be 1 1/4" across flats, 13/16" thick, curve crowned to approximately 1" radius.





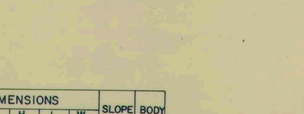
TYPE #1

For 18" x 11" thru 43" x 27" only



TYPE #3

For 12" thru 24" only



TYPE #4

For 30" thru 36" only

METAL END SECTION

MISCELLANEOUS STANDARDS
STATE OF INDIANA
JULY 1972

RECOMMENDED FOR APPROVAL — Engineer of Road Design

APPROVED — Chief Division of Design

APPROVED — Chief Engineer

REVISIONS	
10-2-72	Metal Notes
1-2-74	1974 Spec's

M E 2

RECORD DRAWING SHEET NO. 97 14A

FED. ROAD REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.				

WHITE LETTERS AND BORDER WITH RED BACKGROUND
R-1A
R-1B
R-1C

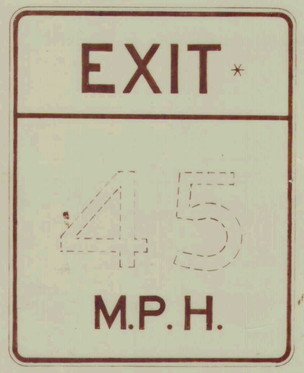
RED BORDER BAND AND LETTERS WITH WHITE BACKGROUND
R-301
R-301A
R-301B

RED CIRCLE WITH WHITE LETTERS AND WHITE BACKGROUND
R-15A

WHITE LETTERS AND BORDER WITH RED BACKGROUND
R-102

SIGN SPECIFICATIONS

SIGN NUMBER	SIZE WIDTH X HEIGHT IN.	THICKNESS AL. SHEET IN.	THICKNESS STEEL SHEET GA.	CORNER RADIUS IN.	MARGIN WIDTH IN.	BORDER WIDTH IN.	LINE 1 HEIGHT IN.	LINE 2 HEIGHT IN.	LINE 3 HEIGHT IN.	LINE 4 OR 4 & 5 IN.
R-1A	30X30	0.080	16		3/4		10 C			
R-1B	36X36	0.100	16		7/8		12 C			
R-1C	48X48	0.100	16		1 1/4		16 C			
R-301	36x36x36	0.100	16	2	3/4	5	3 C			
R-301A	48x48x48	0.100	16	3	1	6	4 C			
R-301B	60x60x60	0.100	16	4	1 1/2	8	5 C			
R-15A	36X36	0.100	16	2 1/4	RADIUS	17 1/2	5 D	6 X 30	5 D	
R-102	36X24	0.100	16	1 1/2	3/4		6 D	6D		
W-60	48X60	0.100	16	3	3/4	7/8	8E	16E	6E	
W-61	48X60	0.100	16	3	3/4	7/8	8E	16E	6E	
R-2C	48X60	0.100	16	3	3/4	1 1/4	8E	8E	20E	
R-203A	48X60	0.100	16	3	3/4	7/8	6D	16E		
R-45	48X36	0.100	16	2	1/2	3/4	4C	4C	4C	4C
R-6	36X48	0.100	16	2 1/4	5/8	7/8	10D	8D	8D	
R-7	36X48	0.100	16	2 1/4	5/8	7/8	10D	8D	8C	
R-8B	36X48	0.100	16	3	3/4	7/8	8 D	12 F	8 D	
XW-163A	48X48	0.100	16	3	3/4	1 1/4	7C	7C	7C	
R-37C	48X60	0.100	16	3	3/4	7/8	8C	8C	8C	8C
R-49B	48X60	0.100	16	3	3/4	7/8	10D	10D	6D	6D
							Line 1	Head	Shaft	Line 2 or 3
R-14A	36X48	0.100	16	2 1/4	5/8	7/8	7D	8 1/2 X 8 1/8	13 X 4 3/8	7D
W-31B	48X48	0.100	16	3	3/4	1 1/4		16X14	7X24	
W-31B	40X30	0.100	16	2 1/2	5/8	7/8	8 D			
R-16	36X12	0.100	16	1 1/2	3/8		4D	7 1/2 X 8 1/2	23 1/2 X 5 1/4	



BLACK BORDER, NUMERALS, AND LETTERS WITH YELLOW BACKGROUND
W-60 (Exit) *
W-61 (Ramp) *

BLACK BORDER, NUMERALS, AND LETTERS WITH WHITE BACKGROUND
R-2C

BLACK BORDER, NUMERALS, AND LETTERS WITH WHITE BACKGROUND
R-203A

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-45

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-6

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-7

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-8B

XW-163-A
48" X 48"

NOTE:
ALL SIGNS TO BE REFLECTORIZED

BLACK BACKGROUND WITH BLACK LETTERS ON WHITE ARROW
R-16

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-37C

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-49B

BLACK BORDER AND LETTERS WITH WHITE BACKGROUND
R-14A

BLACK BORDERS, ARROW AND LETTERS WITH YELLOW BACKGROUND
W-31B

MISCELLANEOUS STANDARDS
STATE OF INDIANA
OCTOBER 1971

REVISIONS	
5-1-72	R-15A
7-3-72	MISC.

RECOMMENDED FOR APPROVAL Frank S. Upchurch 12-3-71
ENGINEER OF TRAFFIC REGULATIONS

APPROVED Clinton A. Venable Jr. 12-3-71
CHIEF-DIVISION OF TRAFFIC

APPROVED [illegible]
CHIEF ENGINEER

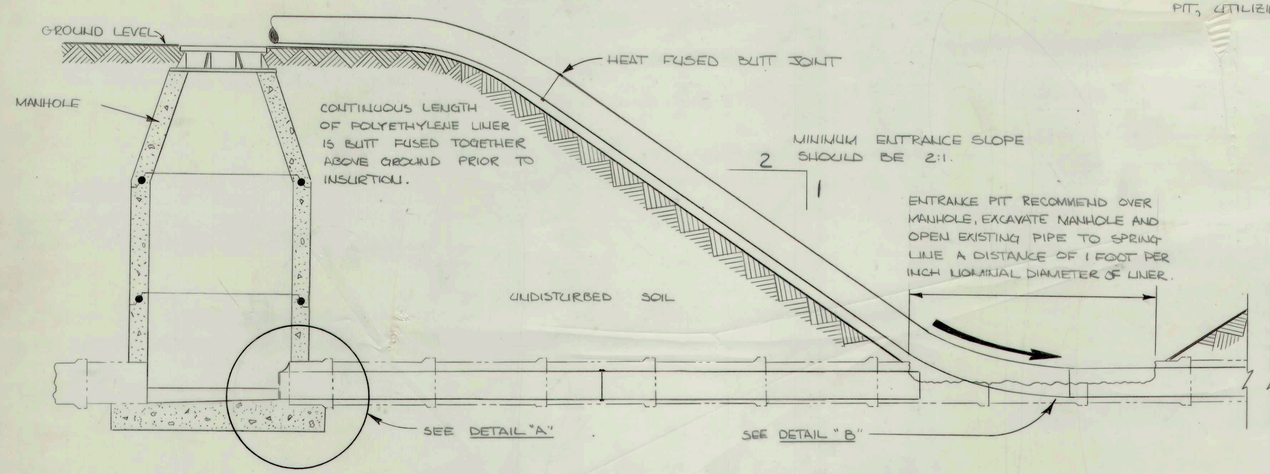
SHEET MT 3

RECORD DRAWING

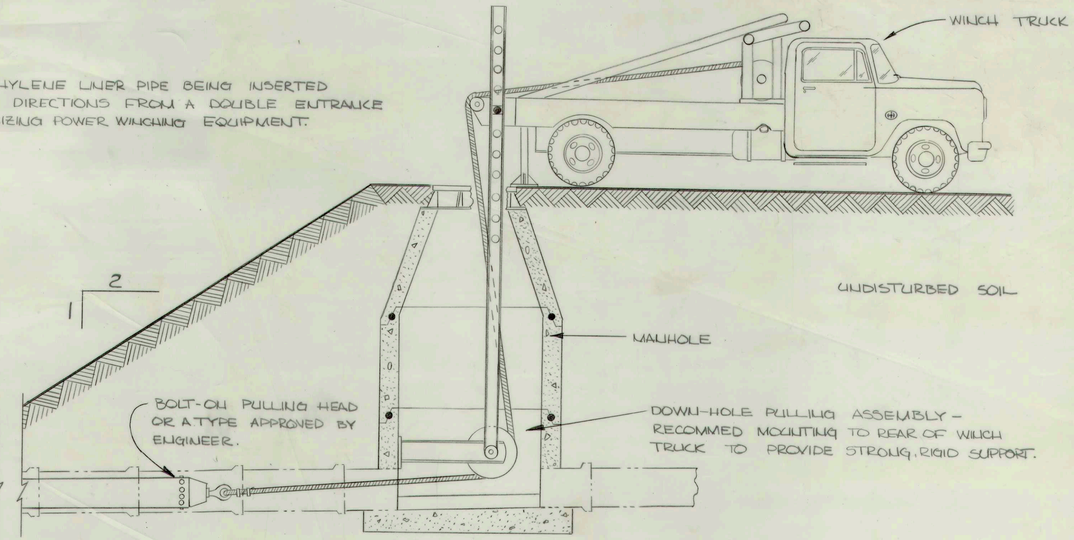
SHEET NO. 98

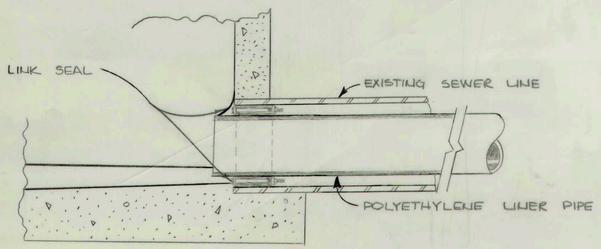
33D

TYPICAL SLIPLINING
WITH HIGH DENSITY POLYETHYLENE PIPE



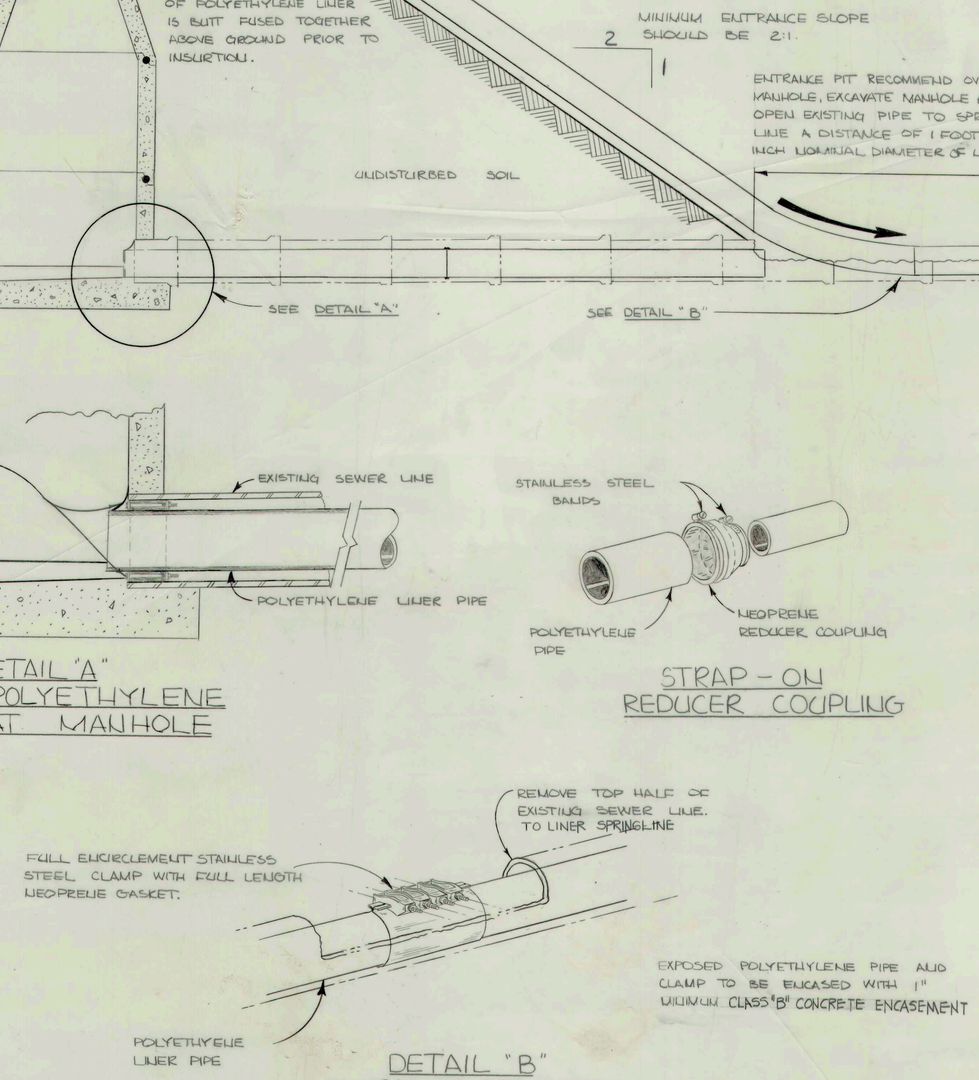
POLYETHYLENE LINER PIPE BEING INSERTED IN TWO DIRECTIONS FROM A DOUBLE ENTRANCE PIT, UTILIZING POWER WINCHING EQUIPMENT.





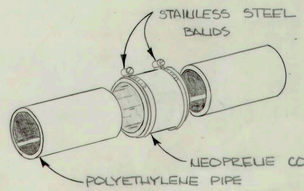
DETAIL "A"
SEALING POLYETHYLENE LINER AT MANHOLE

STRAP – ON
REDUCER COUPLING

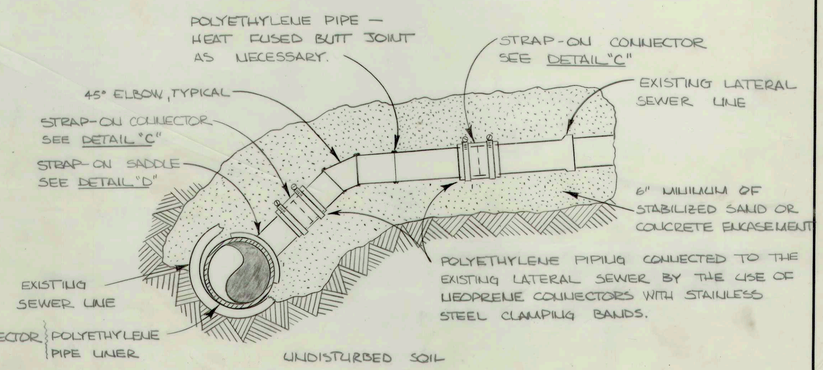


DETAIL "B"
ENTRANCE PIT DETAIL

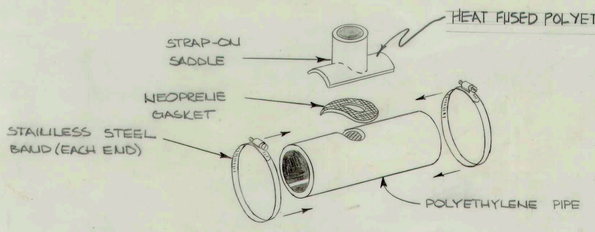
JOINING THE TERMINAL ENDS OF THE POLYETHYLENE LINER PIPE TOGETHER IN THE TWO DIRECTION INSERTION PIT.



DETAIL "C"
STRAP – ON
CONNECTOR FITTING



HOUSE SERVICE
CONNECTION DETAIL



DETAIL "D"
LATERAL STRAP – ON SADDLE
(IN LIEU OF)
HEAT FUSED POLYETHYLENE SADDLE

RECORD DRAWING

ERIC RESKE REGISTERED ER No. 13442 STATE OF INDIANA 3-30-83 PROFESSIONAL ENGINEER

FALL CREEK WASTEWATER FACILITIES		
Scale: NONE	SLIPLINING DETAIL	Sheet
Date: 3-30-83	BEAM LONGEST & NEFF Consulting Engineers 8136 Castleton Road Indianapolis, Indiana	99
Dr. By: E.N.		
Certified By: E.R.		