Appendix B:
DelDOT Contract Maps of Project Area

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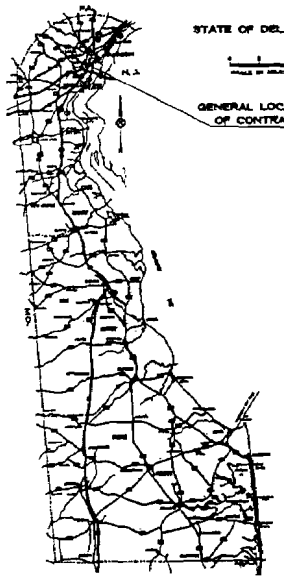
DelDOT Contract Maps of Project Area



DESIGN DESIGNATION

FEDERAL CLASS	PRIMARY
A.D.T.	79,400 (1990)
D.H.V.	3,720 (One-Way)
DESIGN SPEED	80 K.P.H.
MIN. STOPPING SIGHT DISTANCE	115 FT.
MAX. S.E.	4.0 FT/FT
MAX. DEGREE CURVE	2°-30'
MAX. % GRADE	3.3

THE STATE OF DELAWARE

DEPARTMENT OF HIGHWAYS AND TRANSPORTATION

CONSTRUCTION PLAN FOR: —

CONTRACT NUMBER 69-02-001

FEDERAL AID PROJECT NUMBER _____

BEGIN PROJECT: STATION NO. 118+00 END: STATION NO. 158+00

LENGTH: 1656.00 FEET = 0.313 MILES

CONTRACT	COUNTY	STATE	FED. AID NO.	PROJECT NO. OF SHEET NUMBERS	TOTAL SHEETS	SHEET NUMBER	TOTAL SHEETS
69-02-001	NEW CASTLE	DEL.	X			1	119

RELOCATED DELAWARE ROUTE 141
PRICES CORNER INTERCHANGE

SURVEY BOOKS

INDEX OF SHEETS

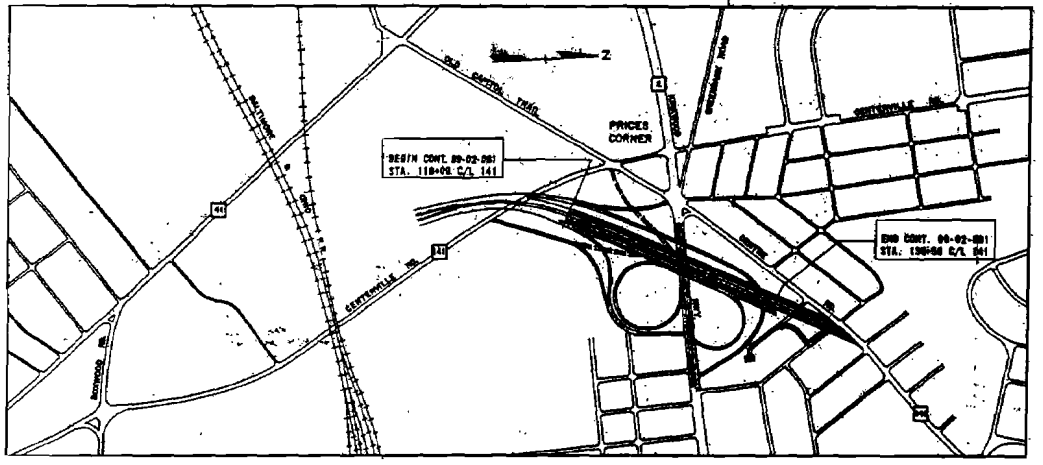
1	INDEX SHEET
2-3	TYPICAL SECTIONS & DETAILS
5-10	CONTROL SHEETS
11-20	PLAN & PROFILE SHEETS (SHEET 14 NOT USED)
21-26	PAVEMENT DETAILS & PAVE. LAYOUTS
27-44	SOILS PLAN & PROFILE SHEETS
45-50	STRUCTURE PLANS
51-119	STANDARD SHEETS 0-1, 0-2, 0-3, 0-4, 0-5, 0-6, 0-7, 0-11, 0-14, 0-20, 0-30, 0-1, 0-2, 0-3, 0-4, 0-5, 0-6, 0-7, 0-8, 0-9

UTILITIES

DELAWARE POWER & LIGHT COMPANY-ELECTRIC & GAS
NEW CASTLE COUNTY DEPT. OF PUBLIC WORKS-SAN. SEWER
ARTESIAN WATER COMPANY
DIAMOND STATE TELEPHONE COMPANY

AS BUILT PLANS SHOWN IN RED INK

R/W LINE VACATED LAND PER REAL ESTATE
PLOT No. N-39 FOR PARCEL 52
APPROVED BY CHIEF ENGINEER
JAMES JOHNSON 10-24-01
PYL 11-7-01



LOCATION MAP

PREPARED AND CERTIFIED
J. E. GRIFFITH COMPANY, INC.
CONSULTING ENGINEERS
BY T. E. Connally DATE 12-18-70

CONVENTIONAL SIGNS

PROPOSED CENTER LINE
NEW RIGHT OF WAY LINE
PROPERTY LINE
PROPOSED DENIAL OF ACCESS LINE
DENIAL OF ACCESS & PROPOSED RIGHT OF WAY LINE
WOODED AREA
TELEPHONE OR UTILITY POLE
EXISTING CULVERT OR PIPE
RAILROAD
GALVANIZED STEEL BEAM GUARD RAIL

SCALES

TITLE SHEET	1" = 400	FEET
CONSTRUCTION PLAN	1" = 50	FEET
VERTICAL PROFILE	1" = 10	FEET

DIVISION OF HIGHWAYS

RECOMMENDED

RECOMMENDED 1/29 19 71 E. B. Freeland
DIV. ENGINEER DESIGN

RECOMMENDED _____ 19 _____
DIV. CHIEF CONST. ENGINEER

APPROVED

APPROVED 1/29 19 71 Joe S. Johnson
DIRECTOR-CHIEF ENGINEER

APPROVED 1-29 19 71 [illegible]
DIRECTOR OF PROJECTS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ 19 _____

COUNTY	CONTRACT						
NEW CASTLE	00-02-001	2	CHEL		10	116

RELOCATED DELAWARE ROUTE 141
PROJECT CROSSER INTERCHANGE

END CONTRACT 00-02-001
STA. 134+00, RTE. 141
END 8" PCC PAVEMENT
BEGIN 8" PCC PAVEMENT

FUTURE RAMP PP
LIMIT OF SLOPE
EXISTING RTE. 141
TEMPORARY CROSSOVER
TREES IN THIS AREA NOT DISTURBED BY CONSTRUCTION TO REMAIN
END CONSTRUCTION
STA. 143+40 RTE. 141 - 80' RT.
PROPOSED C/L RTE. 141
DEL. 141
END PCC PAVEMENT
STA. 44+00, RTE. 2 - RT.
STA. 45+70, RTE. 2 - LT.

Sta. 13+75 to Sta. 45+35, Rte. 2 - Rt
Abandon San Sewer Line &
Plug Pipe End at Each Manhole
Salvage 4 Manhole Frames Covers
Adjust Manhole at Sta. 45+75

Sta. 34+05 to Sta. 26+10, Rte. 2 - Lt.
Remove 5 Inlets, 3 Manholes &
Connecting Pipes.
Salvage 5 Inlet Grates & Frames, and
3 Manhole Covers & Frames.

Sta. 43+30, Rte. 2 - Lt.
Remove 2 Inlets & Connecting Pipes.
Salvage 2 Inlet Grates and Frames.

Sta. 43+05 to Sta. 45+95, Rte. 2 - Lt. & Rt.
Remove 6 Inlets, Manhole & Connecting Pipes.
Plug 3-12" RCP at Sta. 45+95.
Salvage 6 Inlet Grates & Frames, and
Manhole Frame & Cover

LF - Median Barrier Semi Guard Rail
Twisted End Anchorage for Median Barrier

Sta. 132+25, Rte. 141 - Rt.
80 LF - Timber Barricade

GALVANIZED STEEL BEAM GUARD RAIL

475 LF - Sta. 18+12 to Sta. 34+50, Ramp PM - Rt.
612.5 LF - Sta. 129+23 to Sta. 136+70, Rte. 141 - Lt.
Twisted End Anchorage
28.5 LF - Sta. 133+54 to Sta. 136+28, Rte. 141 - Rt.
2 Twisted End Anchorages
325 LF - Sta. 23+50 to Sta. 37+00, Ramp PM - Lt.
Twisted End Anchorage
133.5 LF - Sta. 188+41 to Sta. 184+73, Ramp PM - Lt.
Twisted End Anchorage
481.5 LF - Sta. 184+41 to Sta. 171+16, Ramp PM - Rt.
Twisted End Anchorage

Sta 130+00, Rte 141 - Rt to
Sta 39+00, Ramp PM-Rt
455 LF Chain Link R/W Fence

Sta. 2 Lt. (Including Ramp Terminal)
8710 SF 4" PCC Sidewalk
1340 LF PCC Integral Curb & Gutter, Type 1-Mod.
1818 LF - Std. PCC Curb, Type 1

Sta. 423+00 to Sta. 429+00, Elliott Ave. - Rt.
684 LF - Std. PCC Curb, Type 1

Elliott Ave. and Dunkard Ave. Lt.
408 LF PCC Integral Curb & Gutter, Type 1

Sta. 104+00, Ramp PC - Lt.
372 LF - PCC Integral Curb & Gutter, Type 1

Sta. 49+42.00, Int. Rte. 2, Lt. to Sta. 149+16
Rte. 141, Rt.
1210 LF - Chain Link R/W Fence

141+125
Sta. 138+70 to Sta. [illegible], Rte. 141 - Lt.
410 LF - PCC Curb, Type 1
35 SY 4" PCC Sidewalk (in median)

Sta. [illegible], Rte. 141 - Rt.
270.25 LF - PCC Curb, Type 1
45 SY 4" PCC Sidewalk (in median)

Sta 42+00 to Sta 44+35, Int. Rt 2 - LT
235 LF Chain Link R/W Fence

Sta. 141+00 to Sta. 145+40, Rte. 141 - Rt.
240 LF Plain Concrete Curb, Type 1

Sta. 137+41 to Sta. 135+90, Rte. 141 - Rt.
333 LF - Parkway Curb, Type 4

For Details not shown see Sheets 21 & 22
For Profiles see Sheets 15, 16, 19, 20, 21
For Pavement Details see Sheets 25 & 26

Dunkard Ave. - Rt.
230 LF PCC Integral Curb & Gutter, Type 1
650 SY 4" PCC Sidewalk
Construct 2 Driveways
40 SY 6" PCC Sidewalk,
1 Ea Hot Mix-Hot Lake Asphaltic Conc. - Type 2

Elliot Ave.
Adjust 2 San Sewer Manholes

Dunkard Ave.
Adjust San Sewer Manhole,
Remove Inlets and Connecting Pipe
Salvage Inlet Frames & Covers

Watch Line
Watch Line A-1
Watch Line B-2
Watch Line 2
Watch Line 3
Watch Line 4
Watch Line 5
Watch Line 6-1
Watch Line 6-2
Watch Line 8-2
Watch Line 9-2
Watch Line 10-2
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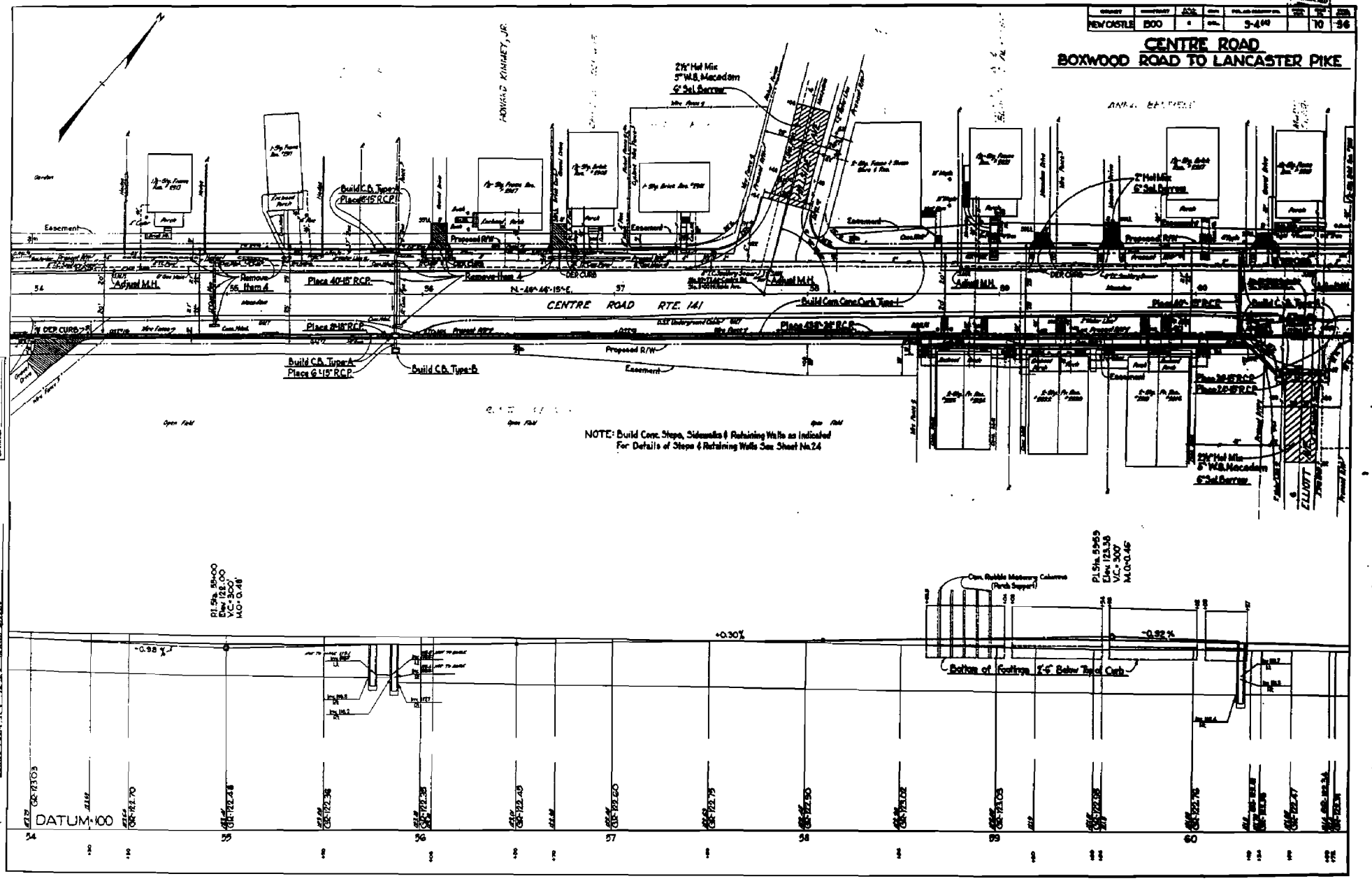
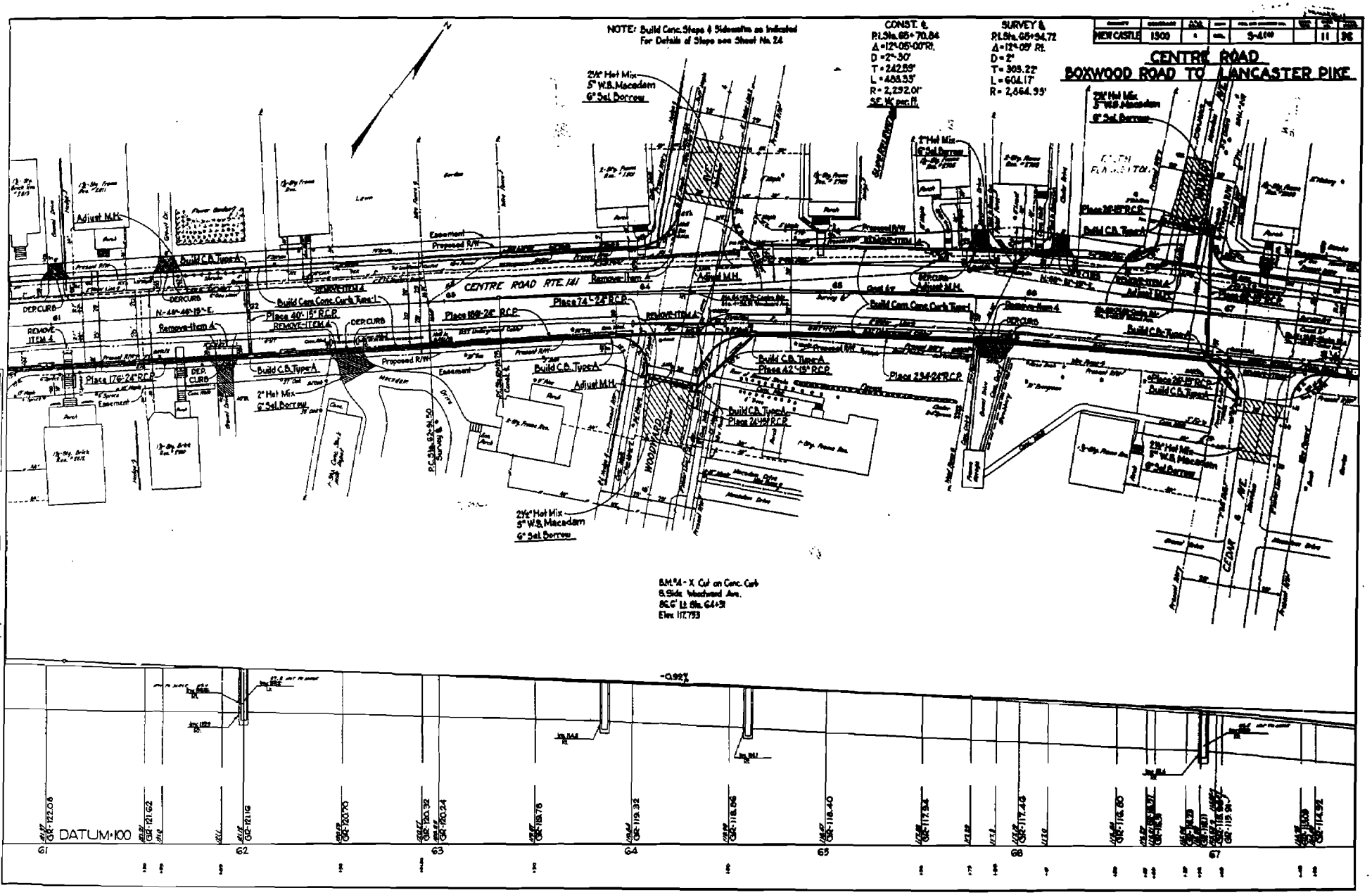
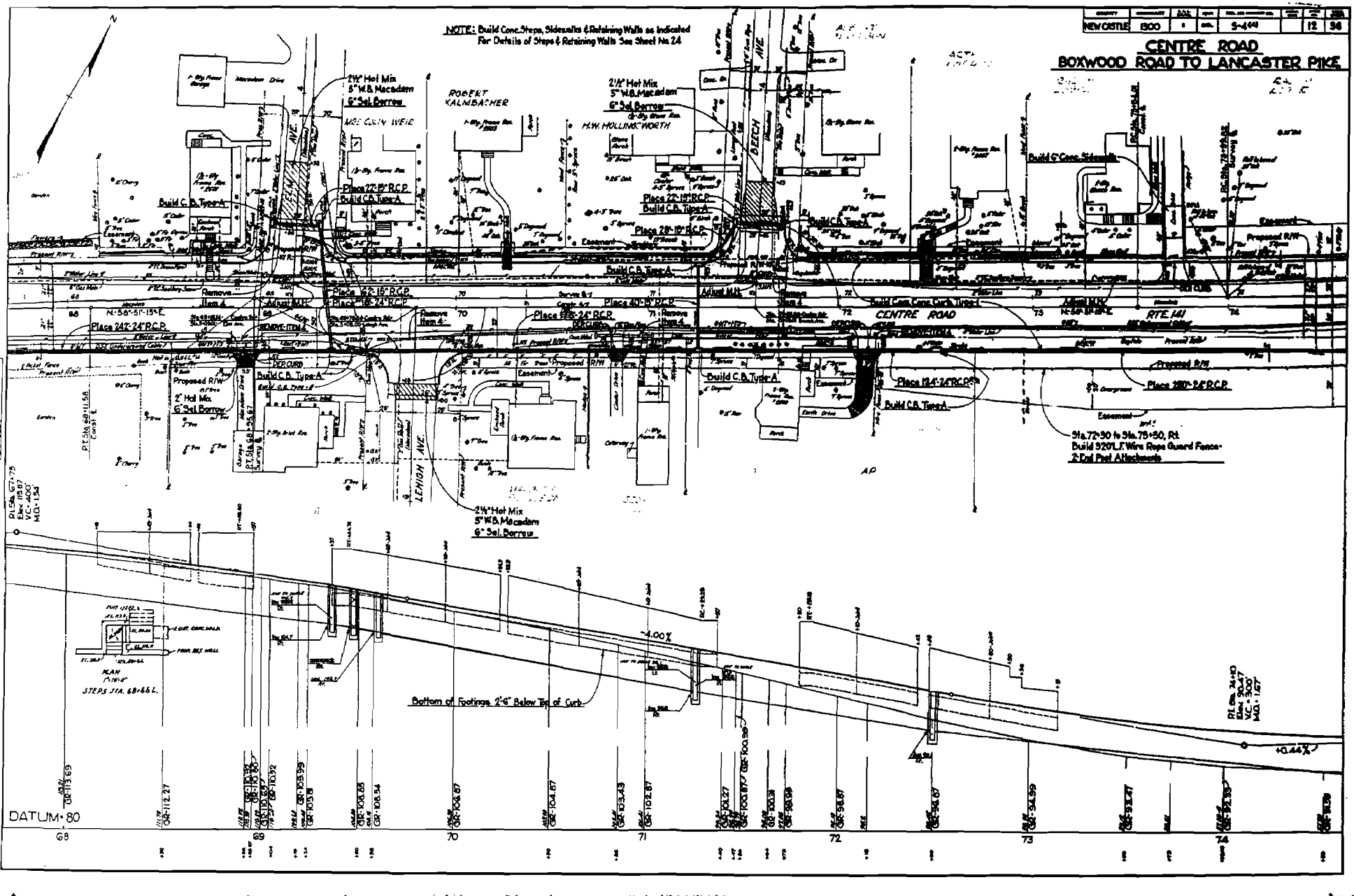
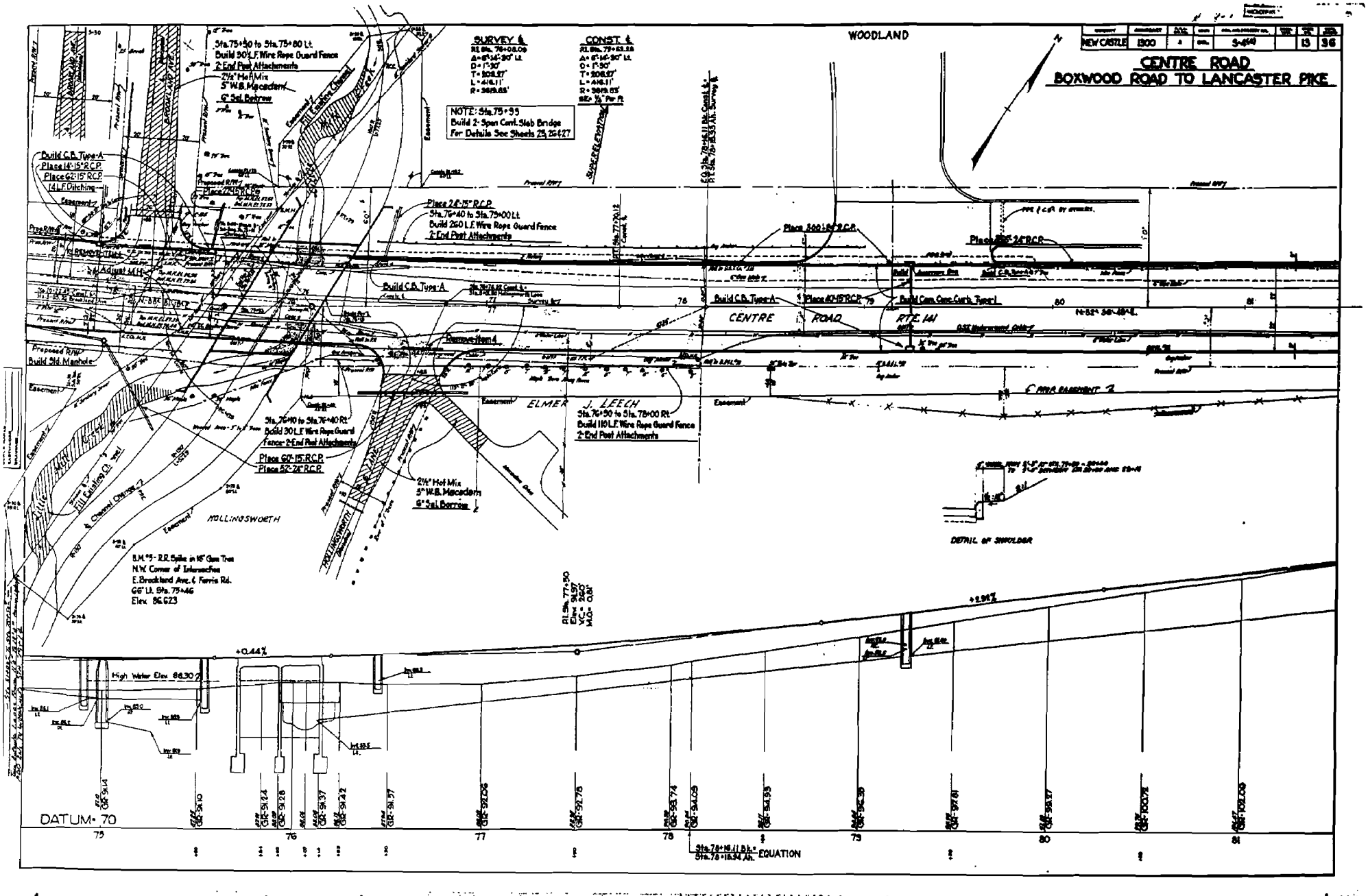


NEW CASTLE
1500
10
36
CENTRE ROAD
BOXWOOD ROAD TO LANCASTER PIKE
HOWARD KIMMEY, JR.
2½" Hot Mix
5" W.B. Macadam
6" Sel. Borrow
2" Hot Mix
6" Sel. Borrow
Build C.B. Type-A
Place 8'-15" R.C.P.
Remove Item 4
Place 40'-15" R.C.P.
Adjust M.H.
CENTRE ROAD RTE. 141
Build Conc. Conc. Curb Type-1
Build C.B. Type-A
Place 6'-15" R.C.P.
Build C.B. Type-B
Proposed R/W
Easement
DEP. CURB
NOTE: Build Conc. Steps, Sidewalks & Retaining Walls as Indicated
For Details of Steps & Retaining Walls See Sheet No. 24
Open Field
ELLIOTT
Conc. Rubble Masonry Columns (Porch Support)
Bottom of Footings 2'-6" Below Top of Curb
+0.30%
-0.98%
-0.92%
DATUM 100
54
55
56
57
58
59
60


NOTE: Build Conc. Steps & Sidewalks as Indicated
For Details of Steps see Sheet No. 24
CONST. ℄
P.I. Sta. 65+70.84
Δ = 12°-05'-00" Rt.
D = 2°-30'
T = 242.59'
L = 483.33'
R = 2,292.01'
SE. W. per ft.
SURVEY ℄
P.I. Sta. 65+94.72
Δ = 12°-05' Rt.
D = 2°
T = 303.22'
L = 604.17'
R = 2,864.93'
NEW CASTLE
1500
11
36
CENTRE ROAD
BOXWOOD ROAD TO LANCASTER PIKE
CENTRE ROAD RTE. 141
WOODWARD
CEDAR AVE.
Adjust M.H.
Build C.B. Type A
Build Conc. Curb Type I
Remove Item 4
Place 176'-24" R.C.P.
Place 40'-15" R.C.P.
Place 188'-24" R.C.P.
Place 74'-24" R.C.P.
Place 42'-15" R.C.P.
Place 234'-24" R.C.P.
Place 24'-15" R.C.P.
Place 24'-15" R.C.P.
Proposed R/W
Easement
DER. CURB
2½" Hot Mix
5" W.B. Macadam
6" Sel. Borrow
2" Hot Mix
6" Sel. Borrow
B.M. #4 - X Cut on Conc. Curb
S. Side Woodward Ave.
86.6' Lt. Sta. 64+31
Elev. 117.793
-0.92%
DATUM=100
61
62
63
64
65
66
67

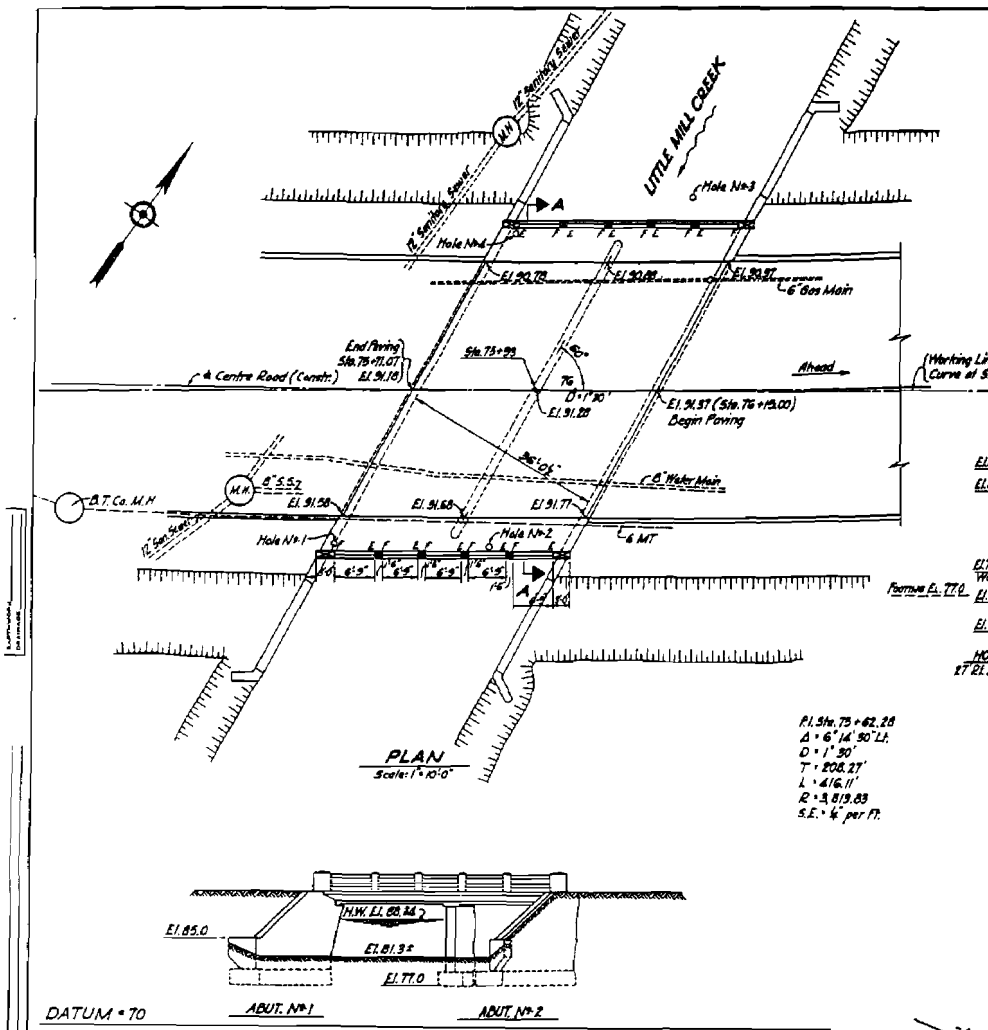

NOTE: Build Conc. Steps, Sidewalks & Retaining Walls as indicated For Details of Steps & Retaining Walls See Sheet No. 24
NEW CASTLE
1300
S-4
12
36
CENTRE ROAD
BOXWOOD ROAD TO LANCASTER PIKE
ROBERT KALMBACHER
H.W. HOLLINGSWORTH
MRS. COLIN WEIR
BEECH AVE.
LEHIGH AVE.
CENTRE ROAD
RTE. 141
2½" Hot Mix
5" W.B. Macadam
6" Sel. Borrow
Build C.B. Type-A
Place 22"-15" R.C.P.
Place 28"-15" R.C.P.
Place 40"-15" R.C.P.
Place 124"-24" R.C.P.
Place 280"-24" R.C.P.
Build 6" Conc. Sidewalk
Build Conc. Conc. Curb Type-1
Proposed R/W
Easement
Remove Item 4
Adjust M.H.
Proposed R/W
2" Hot Mix
6" Sel. Borrow
Sta. 72+30 to Sta. 75+50, Rt.
Build 320 L.F. Wire Rope Guard Fence-
2 End Post Attachments
Bottom of Footings 2'-6" Below Top of Curb
-4.00%
+0.44%
PLAN
STEPS STA. 68+66 L.
DATUM-80
68
69
70
71
72
73
74



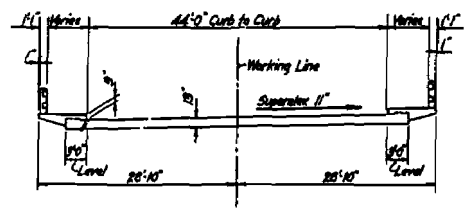
NEW CASTLE
1300
S-4(4)
13
36
CENTRE ROAD
BOXWOOD ROAD TO LANCASTER PIKE
WOODLAND
SURVEY ℄
CONST. ℄
NOTE: Sta. 75+95
Build 2-Span Cont. Slab Bridge
For Details See Sheets 25, 26 & 27
Sta. 75+50 to Sta. 75+80 Lt.
Build 30 L.F. Wire Rope Guard Fence
2-End Post Attachments
2½" Hot Mix
5" W.B. Macadam
6" Sel. Borrow
Build C.B. Type-A
Place 14'-15" R.C.P.
Place 62'-15" R.C.P.
14 L.F. Ditching
Place 24'-15" R.C.P.
Sta. 76+40 to Sta. 75+00 Lt.
Build 260 L.F. Wire Rope Guard Fence
2-End Post Attachments
Place 300'-24" R.C.P.
Build C.B. Type-A
Place 40'-15" R.C.P.
Build Conc. Conc. Curb, Type-1
CENTRE ROAD
RTE. 141
Remove Item 4
Proposed R/W
Build Std. Manhole
Easement
ELMER J. LEECH
Sta. 76+90 to Sta. 78+00 Rt.
Build 110 L.F. Wire Rope Guard Fence
2-End Post Attachments
Sta. 76+10 to Sta. 76+40 Rt.
Build 30 L.F. Wire Rope Guard
Fence-2-End Post Attachments
Place 60'-15" R.C.P.
Place 52'-24" R.C.P.
2½" Hot Mix
5" W.B. Macadam
6" Sel. Borrow
HOLLINGSWORTH
Fill Existing Ch. Sec.
Channel Change
B.M. #5 - R.R. Spike in 18" Gum Tree
N.W. Corner of Intersection
E. Brookland Ave. & Ferris Rd.
66' Lt. Sta. 75+46
Elev. 86.623
DETAIL OF SHOULDER
+0.44%
+2.92%
High Water Elev. 88.30
DATUM - 70
75
76
77
78
79
80
81
Sta. 78+16.11 B.K. = Sta. 78+18.94 Ah. EQUATION

NEW CASTLE	1900	2		94(4)		25	36

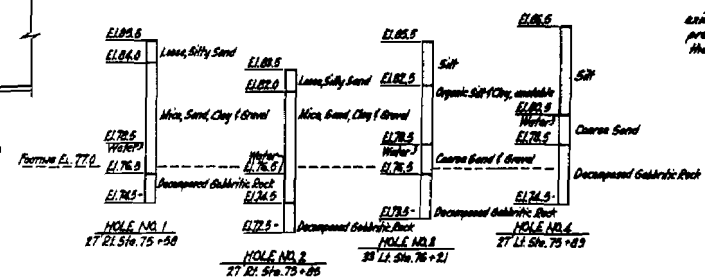
Bridge 143



PLAN
Scale: 1" = 10'-0"



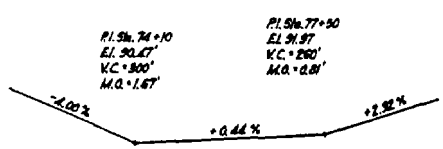
SECTION A-A
Scale: 1/8" = 1'-0"



FOUNDATION BORINGS
Scale: 1/4" = 1'-0"

P.I. Sta. 75+62.28
Δ = 6° 14' 30" Lt.
D = 1° 30'
T = 208.27'
L = 416.11'
R = 3,819.83
S.E. = 1/4" per Ft.

ELEVATION
Scale: 1" = 10'-0"



VERTICAL CURVE DATA
(No Scale)

Drainage Area = 3.4 Sq. miles = 2176 acres
Required Waterway = 204 Sq. Ft.

GENERAL NOTES

Specifications: Construction - State of Delaware, Standard Specifications, 1941.
Design: AASHO Standard Specifications for Highway Bridges (1953)
Dead Load: Concrete = 150# per cu. ft. Future Surface = 25# / sq. ft.
Live Load: H20-S16-44 Truck Loading.
Unit Stresses: Reinforcing Steel (Intermediate Grade) f_s = 20,000 p.s.i.
Concrete: f'_c = 3000 p.s.i., f_c = 1200 p.s.i.
Footing Pressures: Maximum Design Footing Pressure 1.7 Tons per sq. ft.
Concrete: All exposed corners to be chamfered 3/4" unless otherwise noted.

NOTE TO CONTRACTOR:
The Contract Drawings indicate the approximate location of existing utilities. It shall be the Contractors responsibility to protect these or any other utilities that may be in the area of the work covered by the Contract.

SUMMARY OF QUANTITIES

ITEM	QUANTITY	
6	533 Cu. Yds.	Excavation for Structures
21	416 Cu. Yds.	Cement Concrete Masonry
23	281 Sq. Yds.	Waterproofing (Superficial)
34	37,882 Lbs.	Reinforcing Steel
	Lump Sum	Removal of Existing Structure
4	872 Cu. Yds.	Channel Excavation

E. 143

GENERAL PLAN & ELEVATION

DELAWARE
STATE HIGHWAY DEPARTMENT

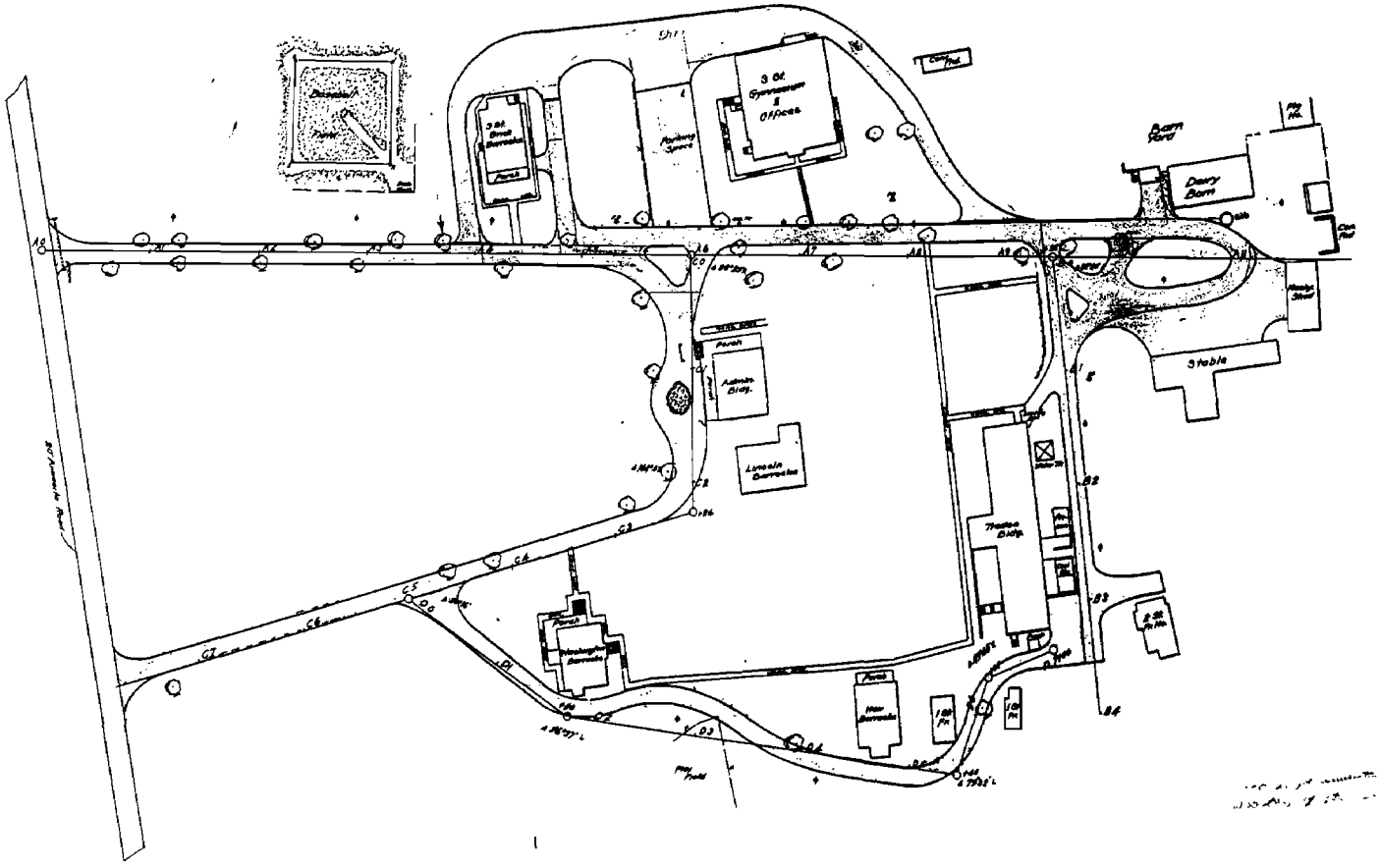
2 SPAN CONTINUOUS SLAB BRIDGE
OVER
LITTLE MILL CREEK

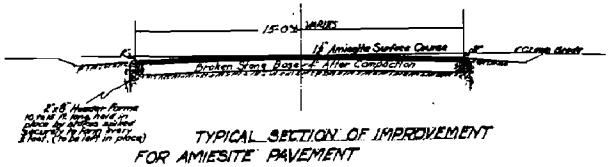
DR. J.J. TR. G.H. T.D.S. CH. 3-4-41	SCALE: AS SHOWN	APPROVED BY: BRIDGE ENGINEER

MISC #3

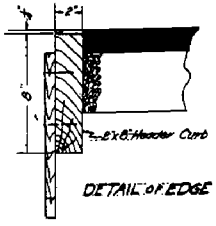
COUNTY	CONTRACT						
N.C.							

Ferris Industrial School Drives





TYPICAL SECTION OF IMPROVEMENT FOR AMIESITE PAVEMENT



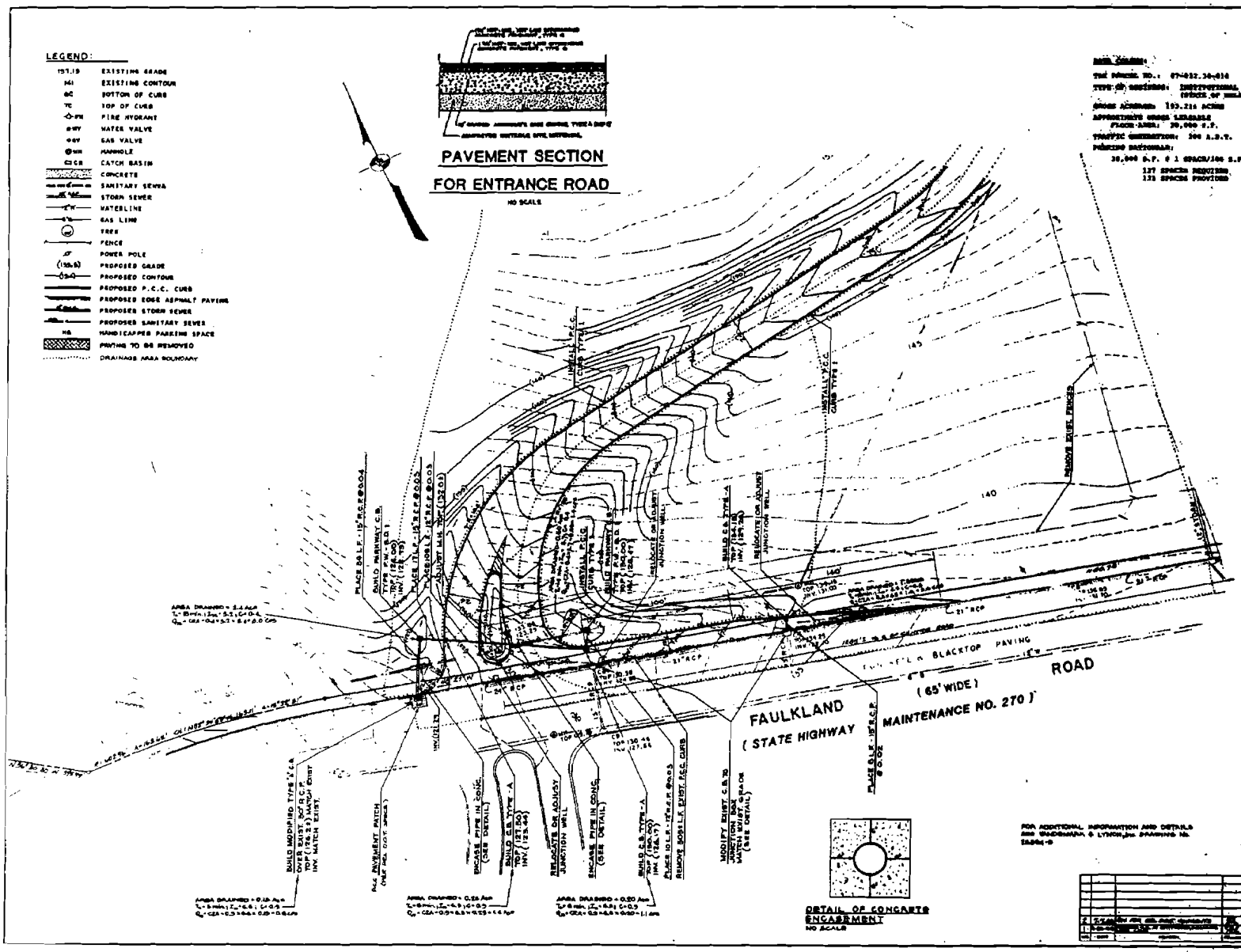
DETAIL OF EDGE

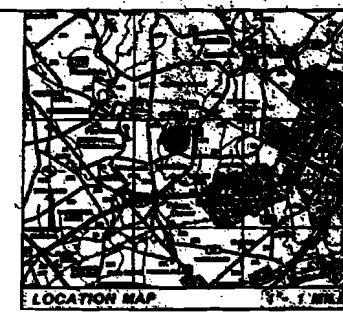
AREAS SHADED THUS - ALIGNMENT & GRADE TO FOLLOW PRESENT ROAD. TO BE SHAPED & CROWNED, AND 2" LIMESTONE SCREENINGS SPREAD OVER SURFACE.

AREAS SHADED THUS TO CONFORM TO TYPICAL SECTION OF BROKEN STONE BASE COURSE AND 1½" SURFACE COURSE, AND FOLLOW THE PRESENT GRADE & ALIGNMENT.

STATE OF DELAWARE
STATE HIGHWAY DEPARTMENT
DRIVEWAYS
FERRIS INDUSTRIAL SCHOOL
Date Aug. 18, 1933 Scale 1"=50'

(5)





RECEIVED

APPROVED
FOR
HIGHWAY ACCESS

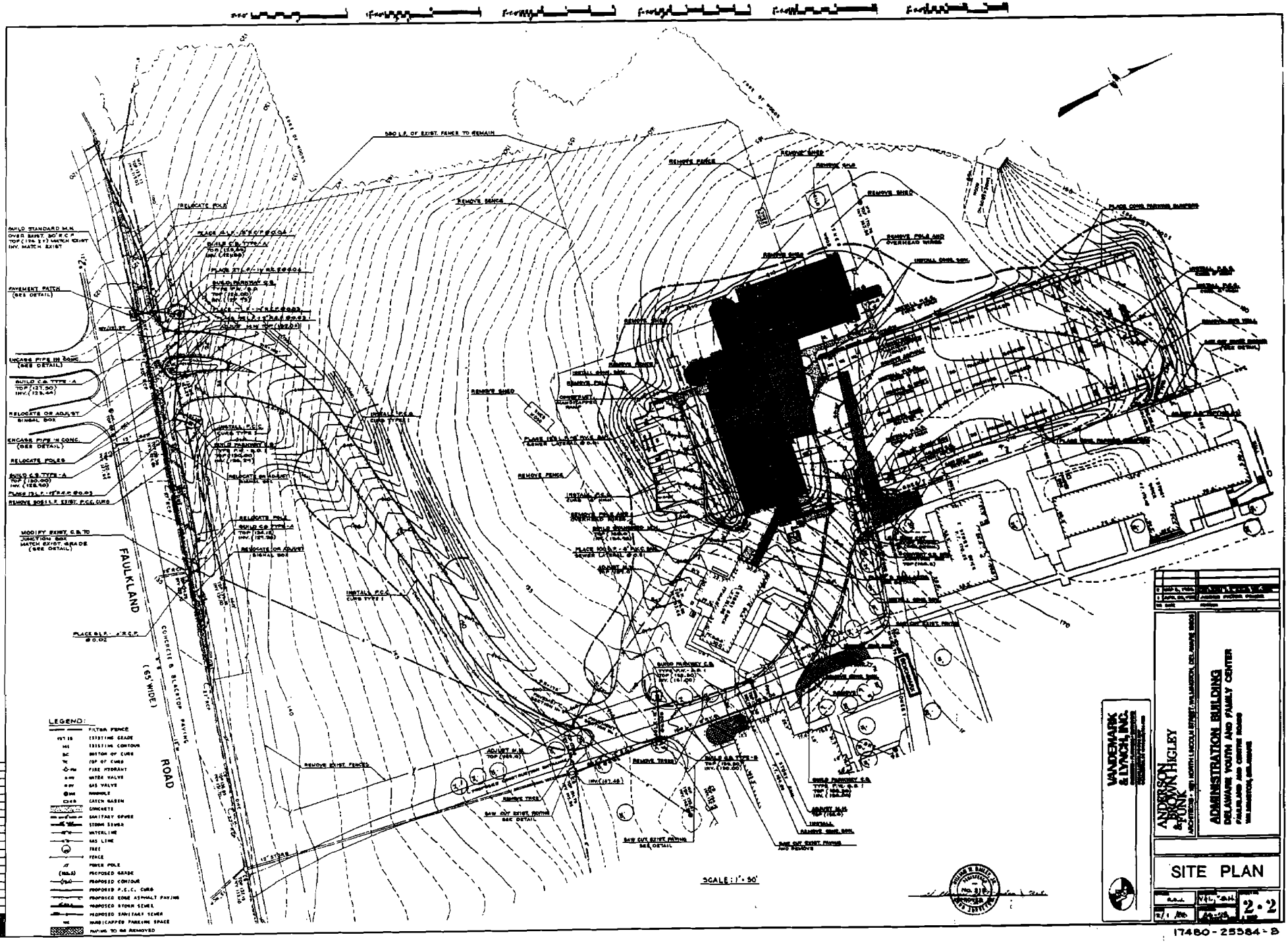
See July 8, 1985

ENTRANCE/EXIT PLAN
FERRIS INDUSTRIAL SCHOOL
FAULKLAND ROAD & CENTRE ROAD
CHRISTIANA HUNDRED NEW CASTLE COUNTY
DELAWARE

SCALE: 1" = 30'
DATE: FEBRUARY 8, 1985

VANDEMARK & LYNCH, INC.

17480 | 25366-L | 1-1 | 2


FAULKLAND ROAD
(65' WIDE)
CONCRETE & BLACKTOP PAVING
LEGEND:
SCALE: 1" = 50'
VANDEMARK & LYNCH, INC.
ANDERSON BROWN & HIGLEY
ADMINISTRATION BUILDING
DELAWARE YOUTH AND FAMILY CENTER
SITE PLAN
2·2
17480-25584-B