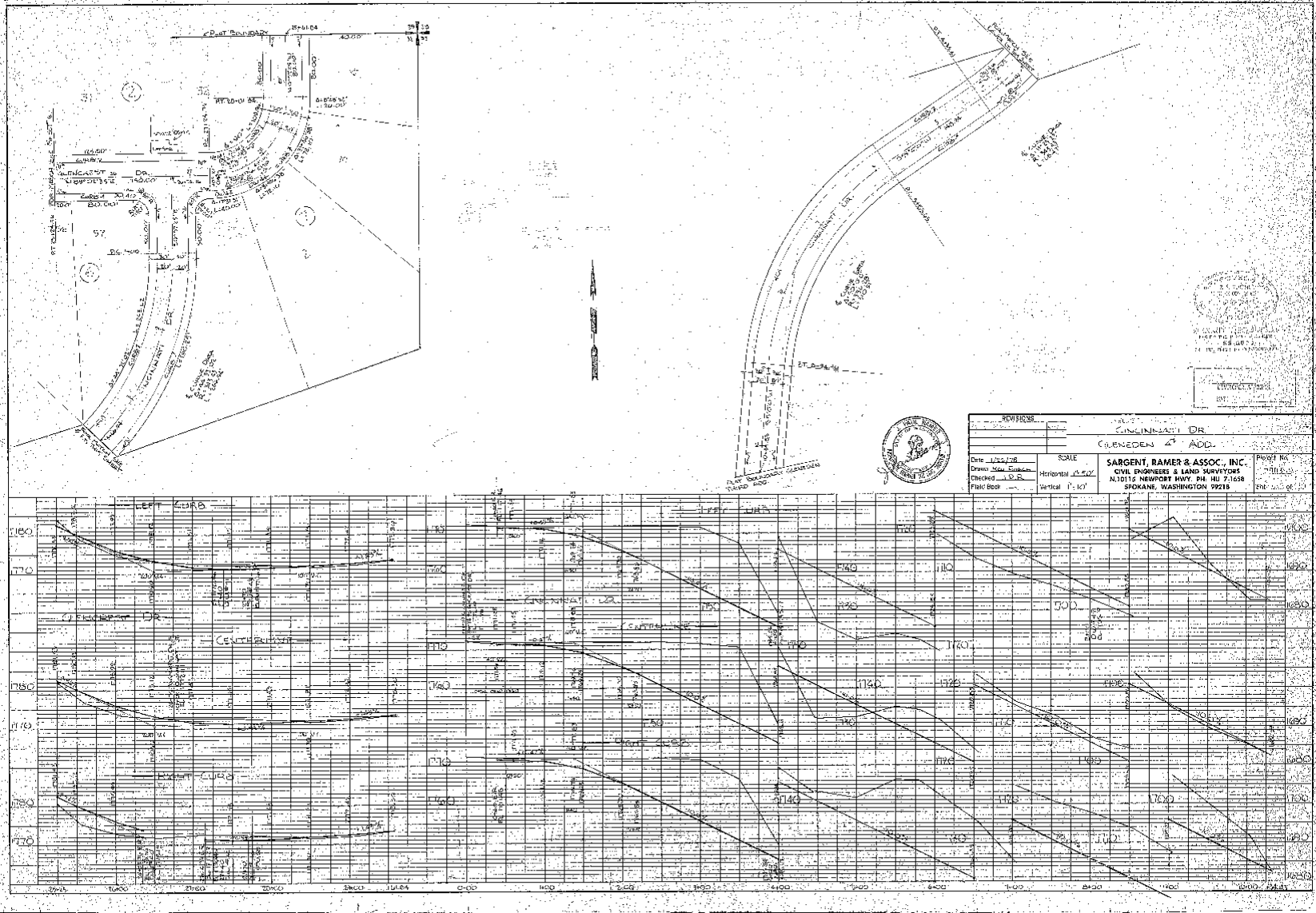
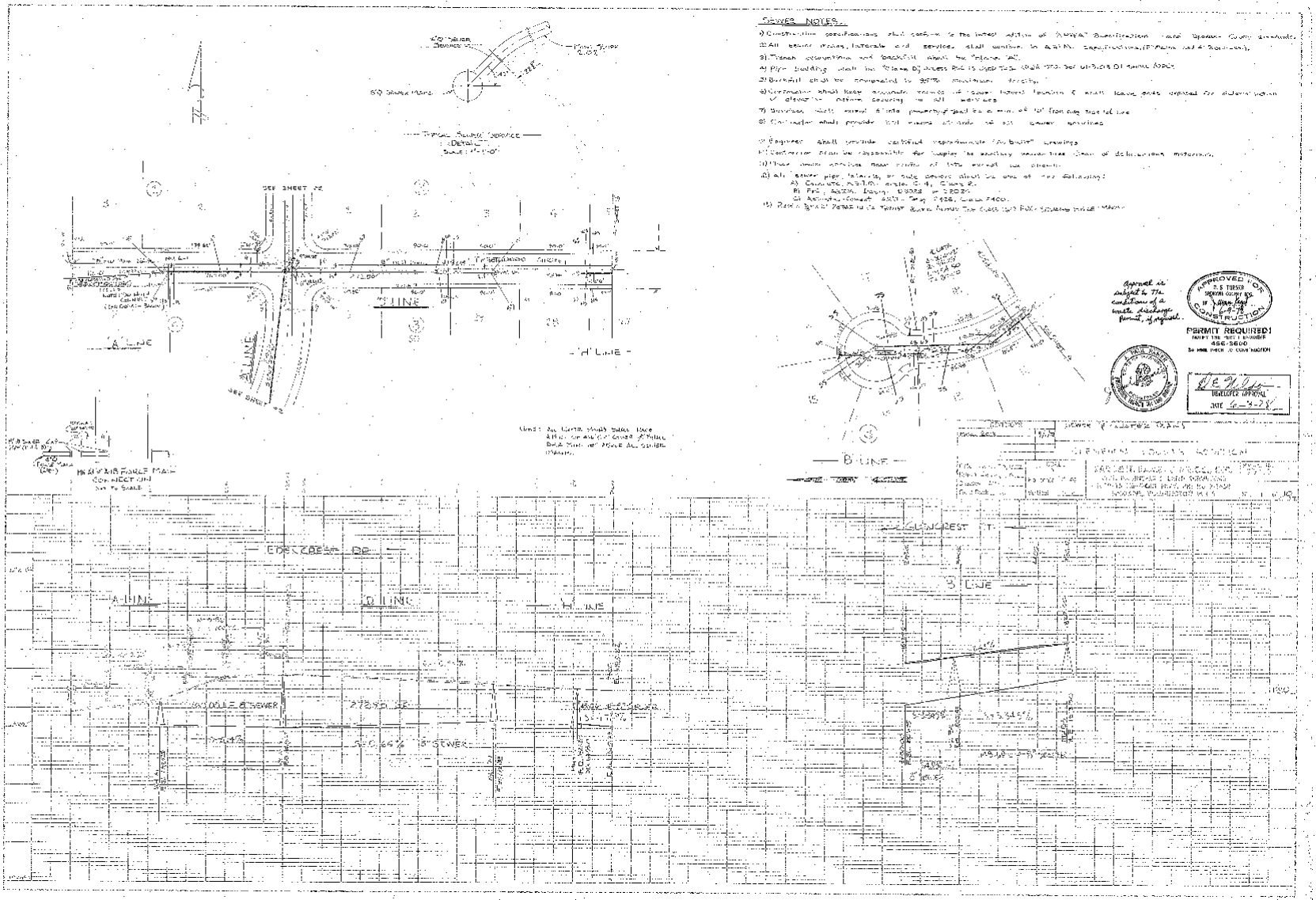
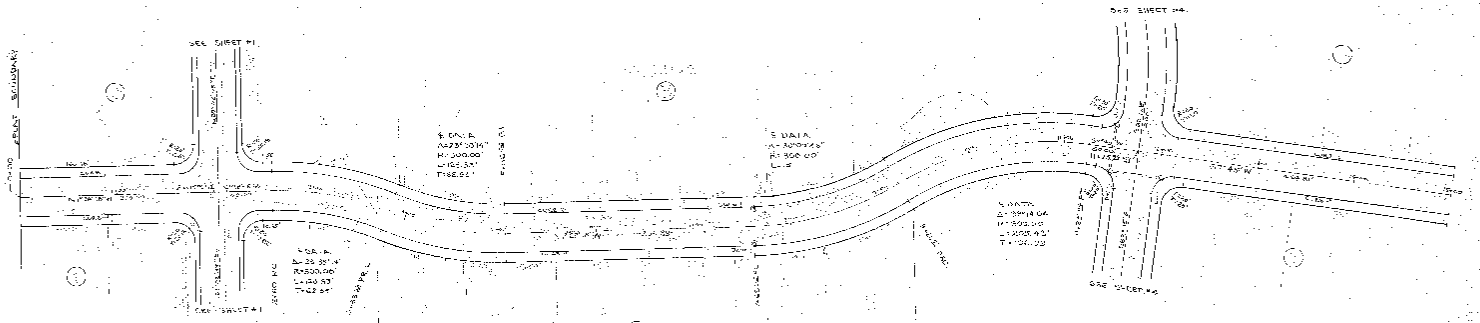


PLAT BOUNDARY
GLENCREST DR.
CINCINNATI DR.
LEFT CURB
RIGHT CURB
CENTERLINE
REVISIONS
CINCINNATI DR.
GLENEDEN 4th ADD.
Date
Drawn
Checked
Field Book
SCALE
Horizontal 1"=50'
Vertical 1"=10'
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH. HU 7-1658
SPOKANE, WASHINGTON 99218
Project No.


SEWER NOTES.
1) Construction specifications shall conform to the latest edition of "APWA" Specifications and Spokane County standards.
2) All sewer mains, laterals and services shall conform to ASTM Specifications (Plans and 4" Sections).
3) Trench excavations and backfill shall be "Class A".
4) Pipe bedding shall be "Class B" unless PVC is used "Class A" (ASTM D-3.013 D1 Small Aggr.)
5) Backfill shall be compacted to 95% maximum density.
6) Contractor shall keep accurate records of sewer lateral location & shall leave ends exposed for determination of elevation before covering in all services.
7) Services shall extend 4" into property & shall be a min. of 10' from any bldg. to line.
8) Contractor shall provide 1 set of sewer services.
9) Engineer shall provide certified reproducible "As-built" drawings.
10) Contractor shall be responsible for supply of sanitary sewer tree clean of deleterious materials.
11) Mains shall provide near ends of lots except as shown.
12) All sewer pipe, laterals, or side sewers shall be one of the following:
A) Concrete, ASTM Grade C-4, Class 2.
B) PVC, ASTM Design D3033 or D3034.
C) Asbestos-Cement ASTM Dwg. 2426, Class 2400.
13) Reach Sewer Zones to be Trench Bore Along the Class 150 PVC Sewer Line Main.
TYPICAL SEWER SERVICE DETAIL
SEE SHEET 22
'A' LINE
'B' LINE
'H' LINE
'B' LINE
EDELCREST DR
GLENCREST CT
'A' LINE
'B' LINE
'H' LINE
'B' LINE
S=0.66% 8" SEWER
S=3.345%
Approval is subject to the conditions of a waste discharge permit, if required.
APPROVED FOR CONSTRUCTION
U.S. TURNER
SPOKANE COUNTY, WA
PERMIT REQUIRED!
NOTIFY THE PERMIT NUMBER
456-5600
BEFORE PRIOR TO CONSTRUCTION
DEVELOPER APPROVAL
DATE 6-3-78



REVISIONS	

GLENEDEN FOURTH ADDITION

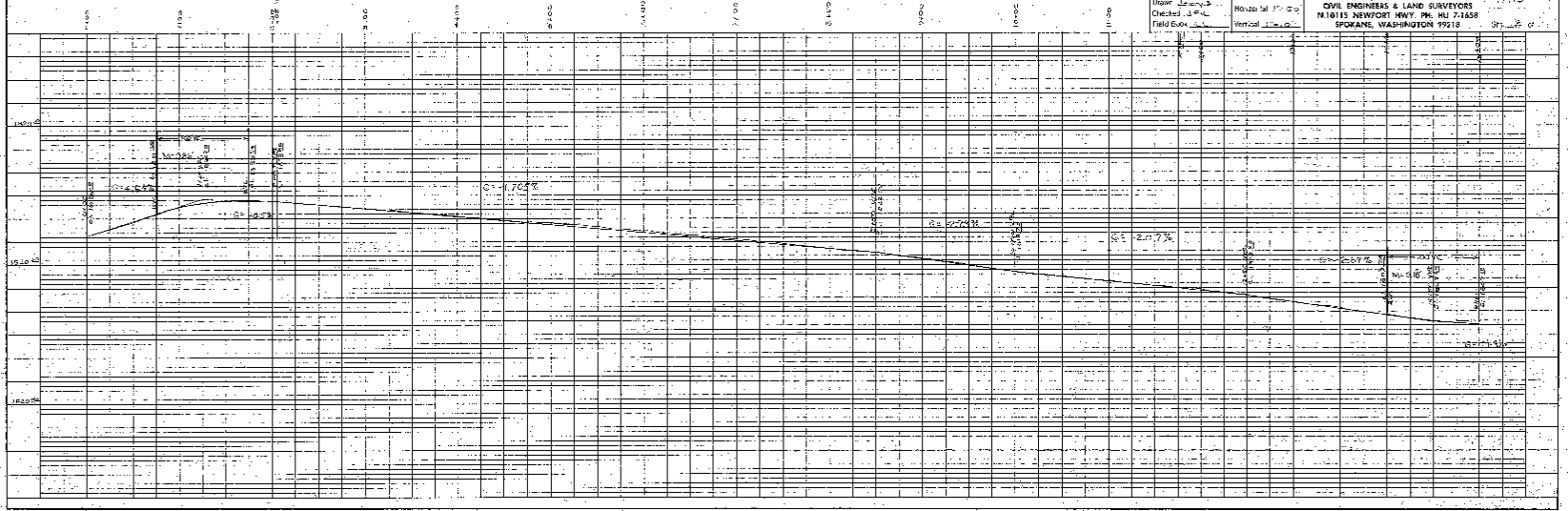
Date [illegible]
Drawn [illegible]
Checked [illegible]
Field Book [illegible]

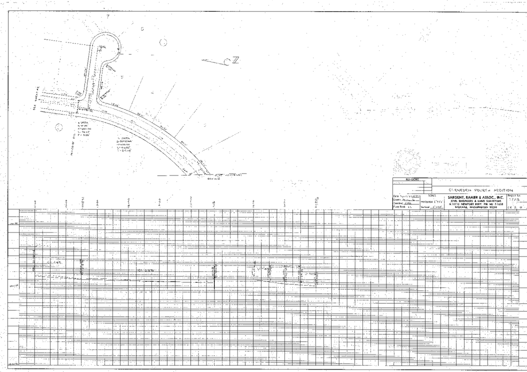
SCALE
Horizontal 1" = 50'
Vertical 1" = 10'

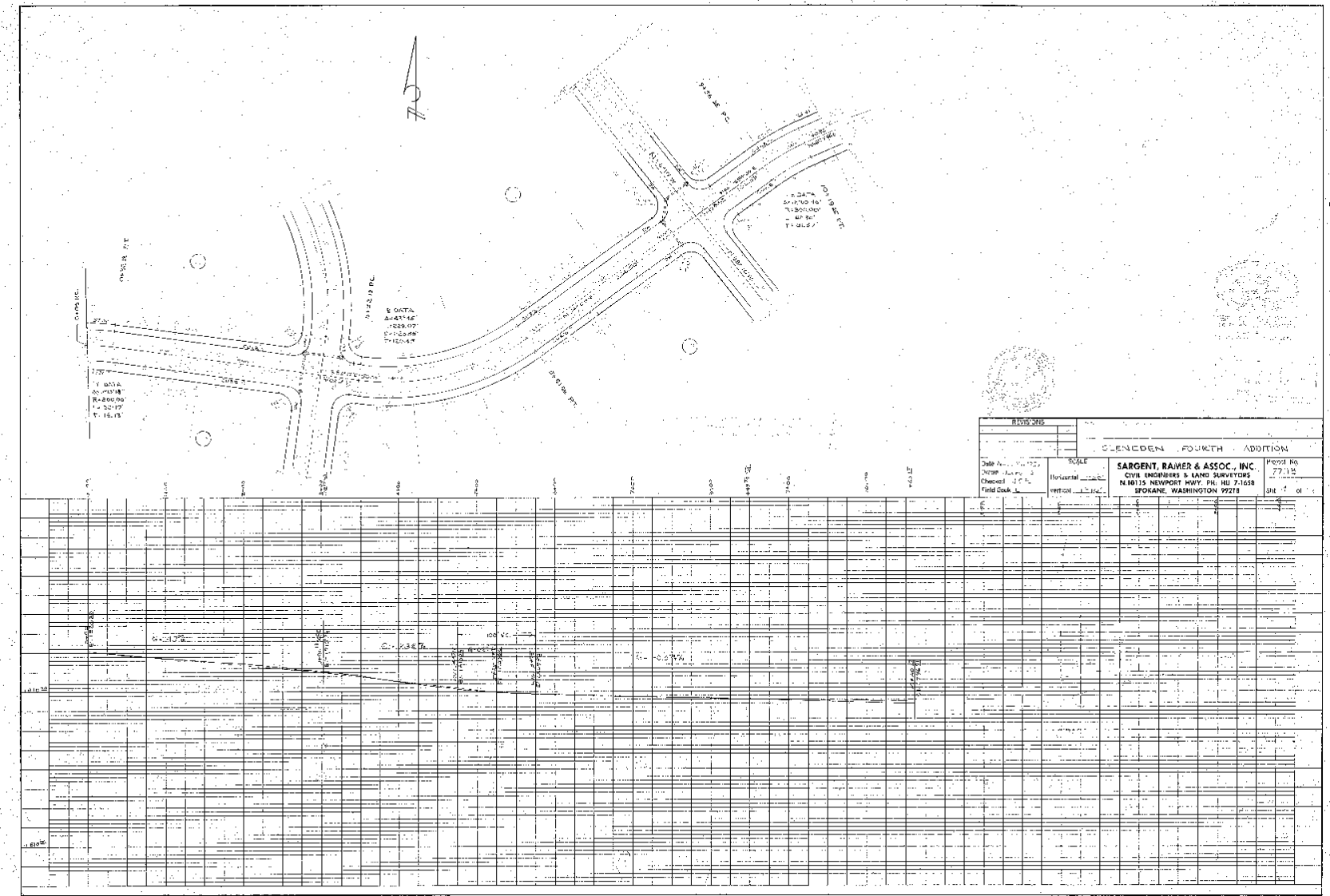
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH. HU 7-1658
SPOKANE, WASHINGTON 99218

Project No. 77113

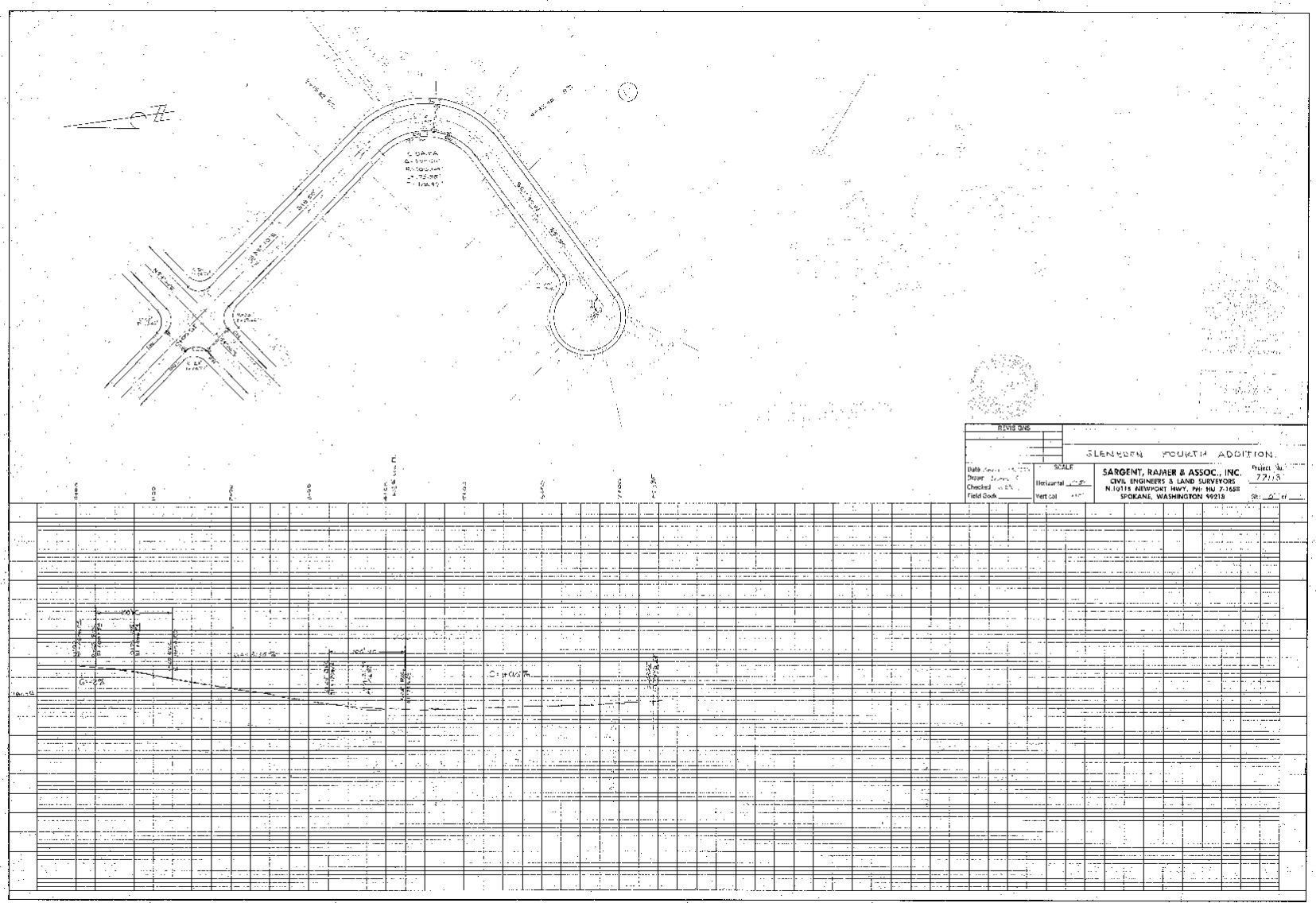
Sheet [illegible] of [illegible]



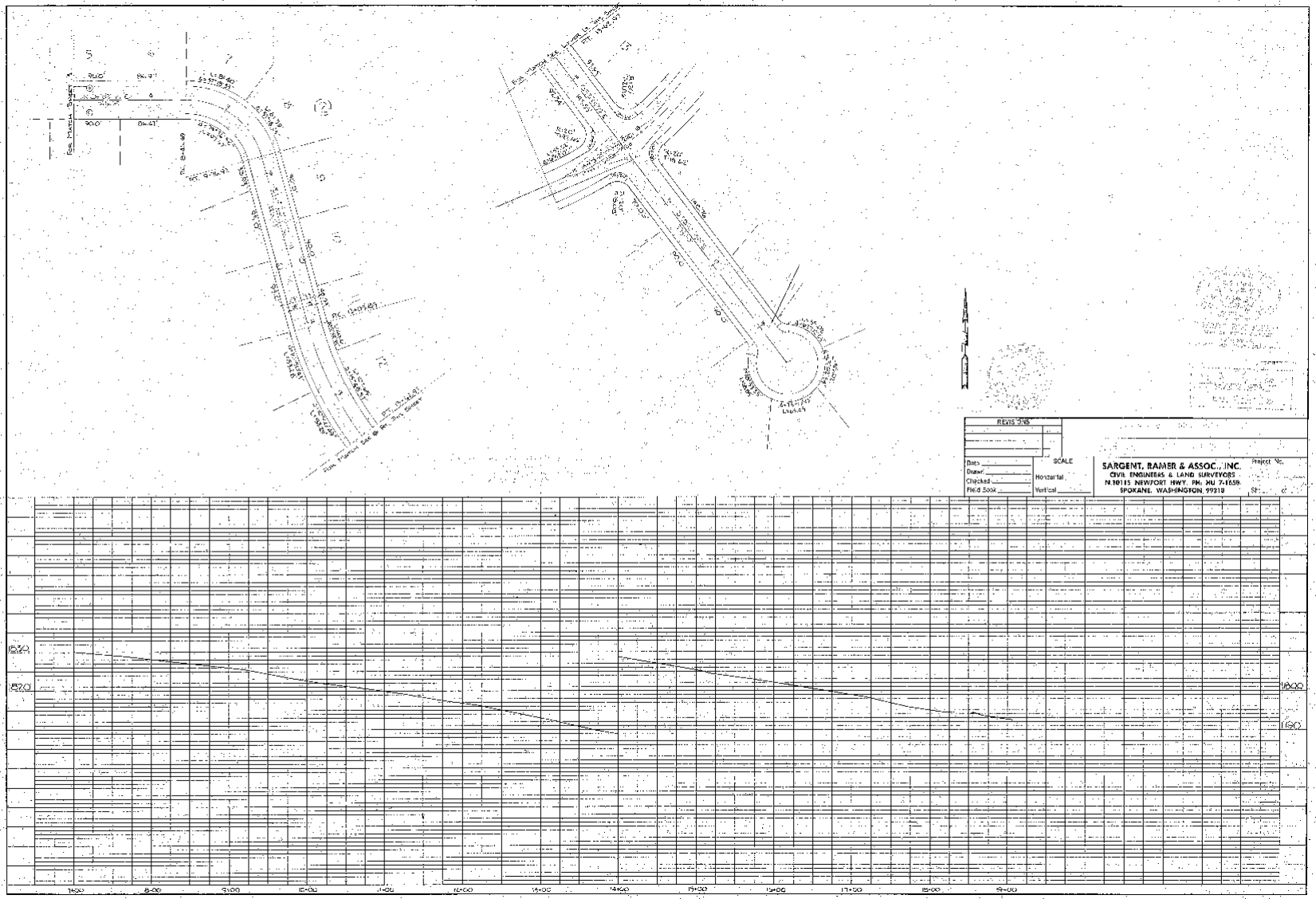

GLENEDEN FOURTH ADDITION
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10715 NEWPORT HWY. PH: HU 7-1658
SPOKANE, WASHINGTON 99218
REVISIONS
Scale
Date
Drawn
Checked
Field Book
Horizontal
Vertical
Project No.



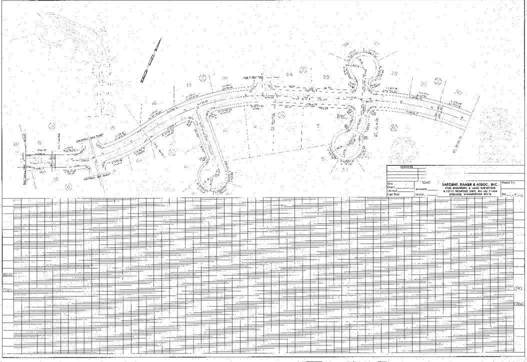
REVISIONS
GLENCDEN FOURTH ADDITION
SCALE
Horizontal
Vertical
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH: HU 7-1658
SPOKANE, WASHINGTON 99218
Project No.
Sht

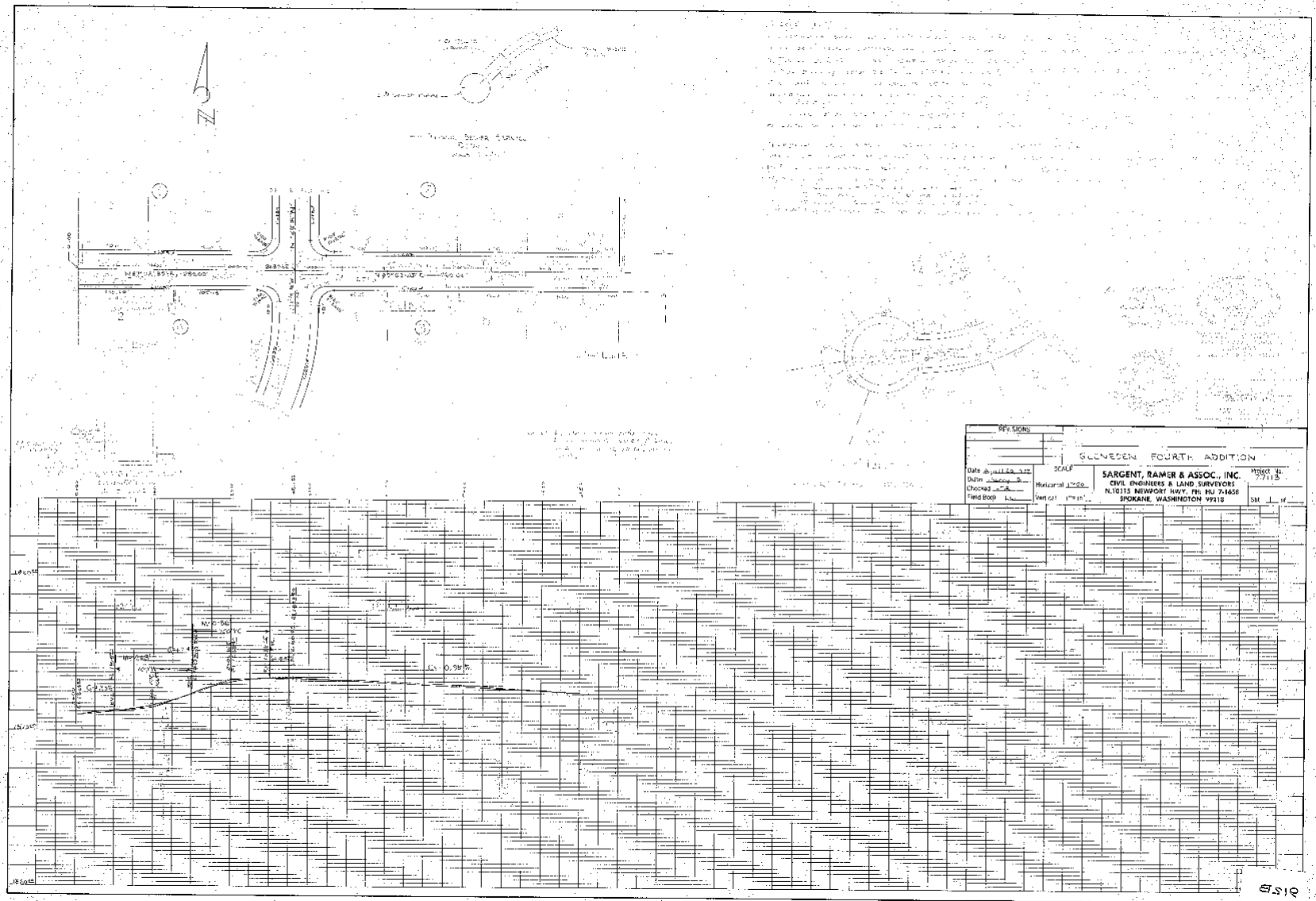


REVISIONS
GLENDEN FOURTH ADDITION.
Date
Drawn
Checked
Field Book
SCALE
Horizontal
Vertical
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH: HU 7-1658
SPOKANE, WASHINGTON 99218
Project No.
Sh: of

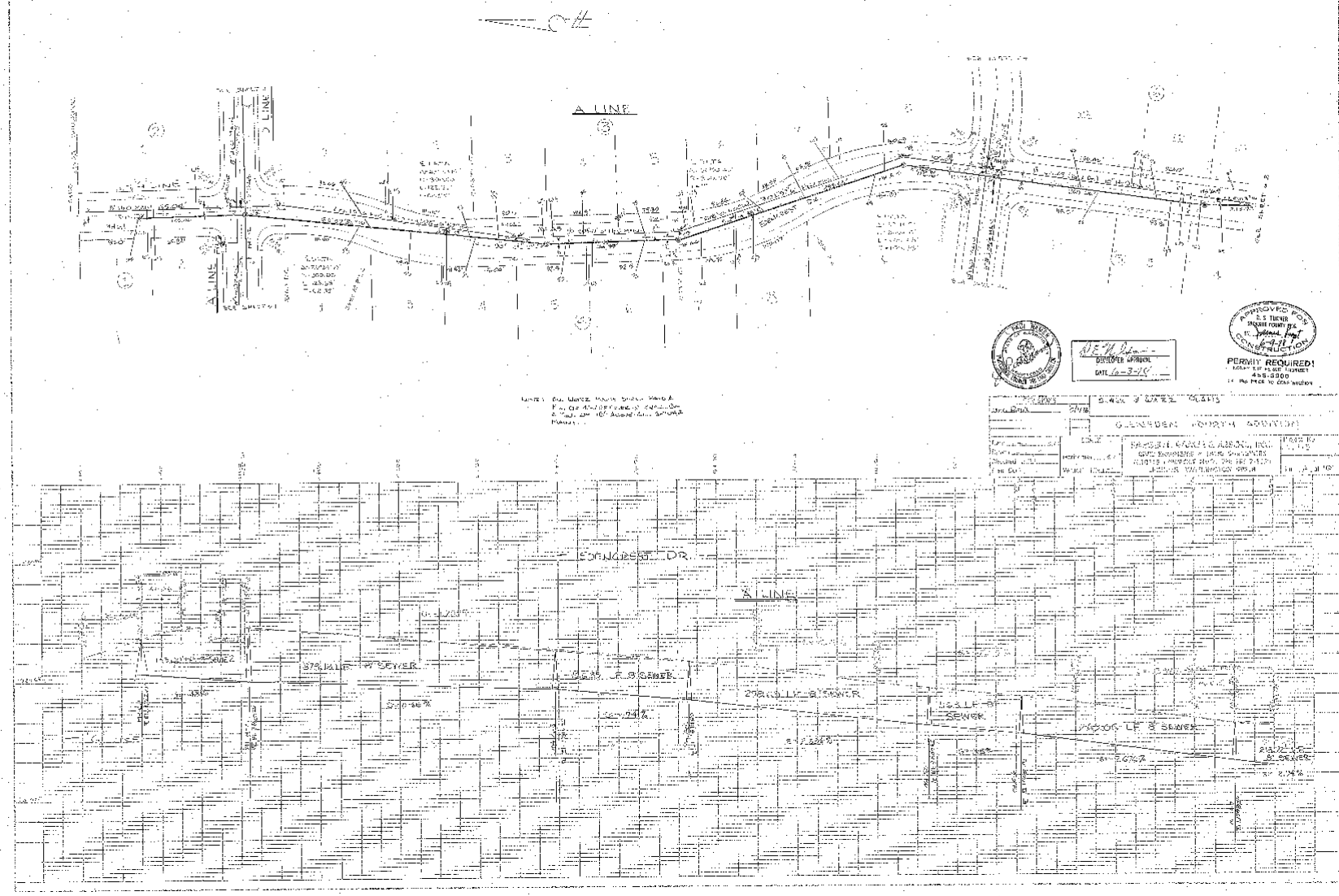


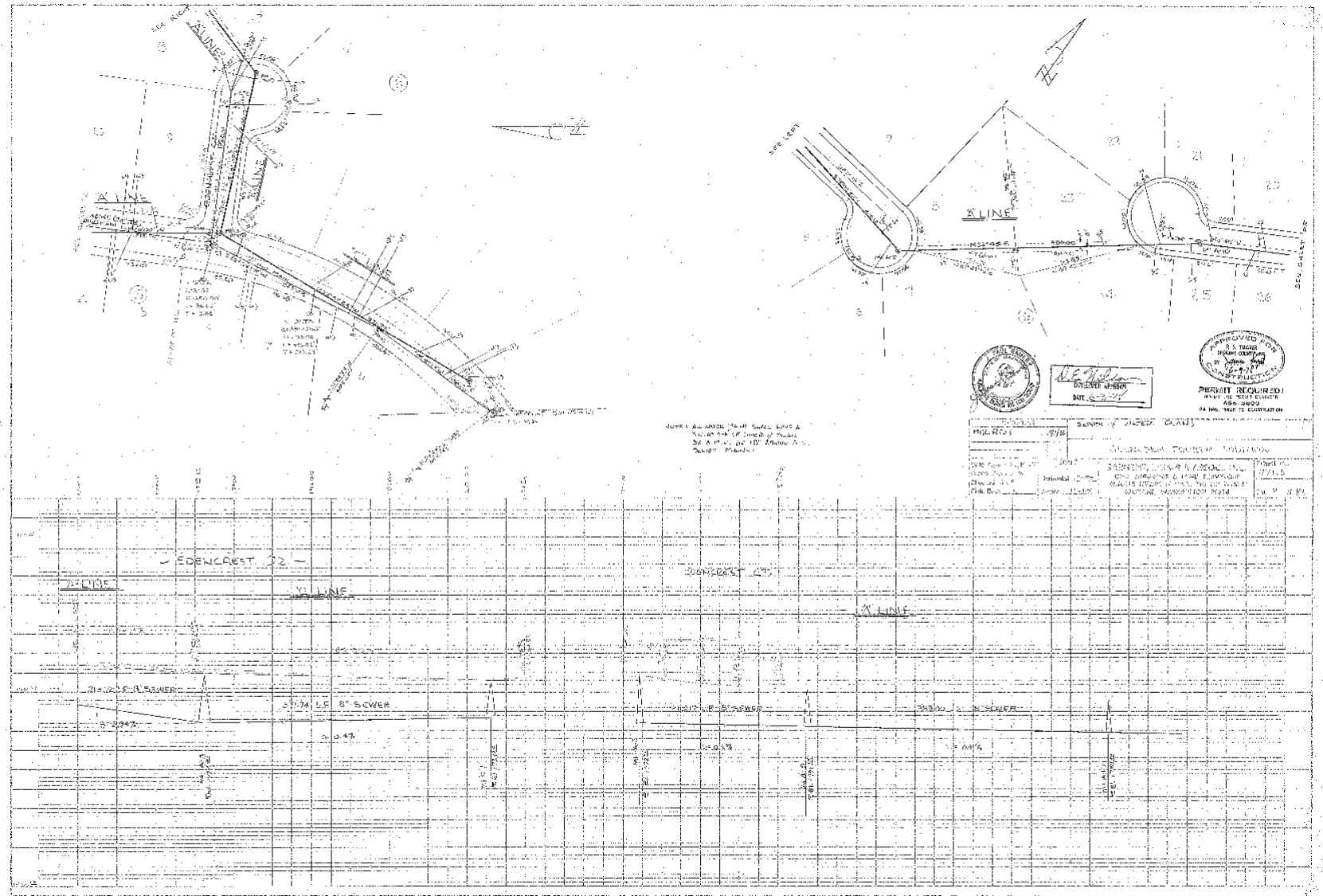
FOR MATCH SHEET
FOR MATCH SHEET
REVISIONS
Date
Drawn
Checked
Field Book
SCALE
Horizontal
Vertical
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH: HU 7-1658
SPOKANE, WASHINGTON 99218
Project No.
1830
1820
1800
1790
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00


REVISIONS
Date
Drawn
Checked
Field Book
SCALE
Horizontal
Vertical
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH. HU 7-1654
SPOKANE, WASHINGTON 99218
Project No.
Sht ___ of ___

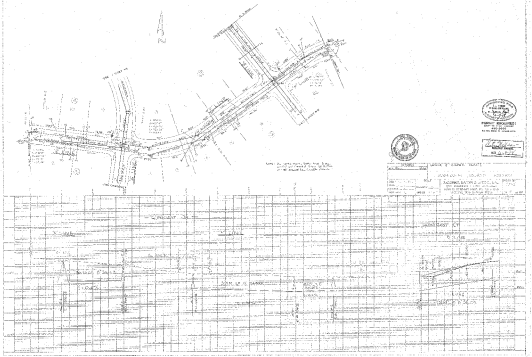


REVISIONS
GLENEDEN FOURTH ADDITION
SCALE
Horizontal 1"=20'
Vertical 1"=10'
Date
Drawn
Checked
Field Book
SARGENT, RAMER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
N.10115 NEWPORT HWY. PH: HU 7-1658
SPOKANE, WASHINGTON 99218
Project No. 77113
Sht 1 of

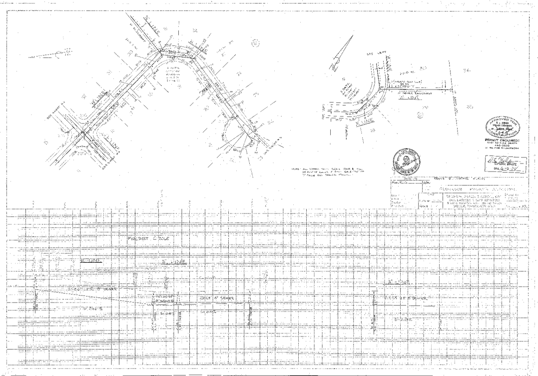

A LINE
A LINE
A LINE
EDENGREST DR.
A LINE
SEWER
SEWER
SEWER
SEWER
SEWER
SEWER
DEVELOPER APPROVAL
DATE 6-3-16
APPROVED FOR
R. S. TUCKER
STORM COUNTY, N.C.
6-9-16
CONSTRUCTION
PERMIT REQUIRED!
455-3300
SEWER & WATER PLANS
GLENRIDGE FOURTH ADDITION



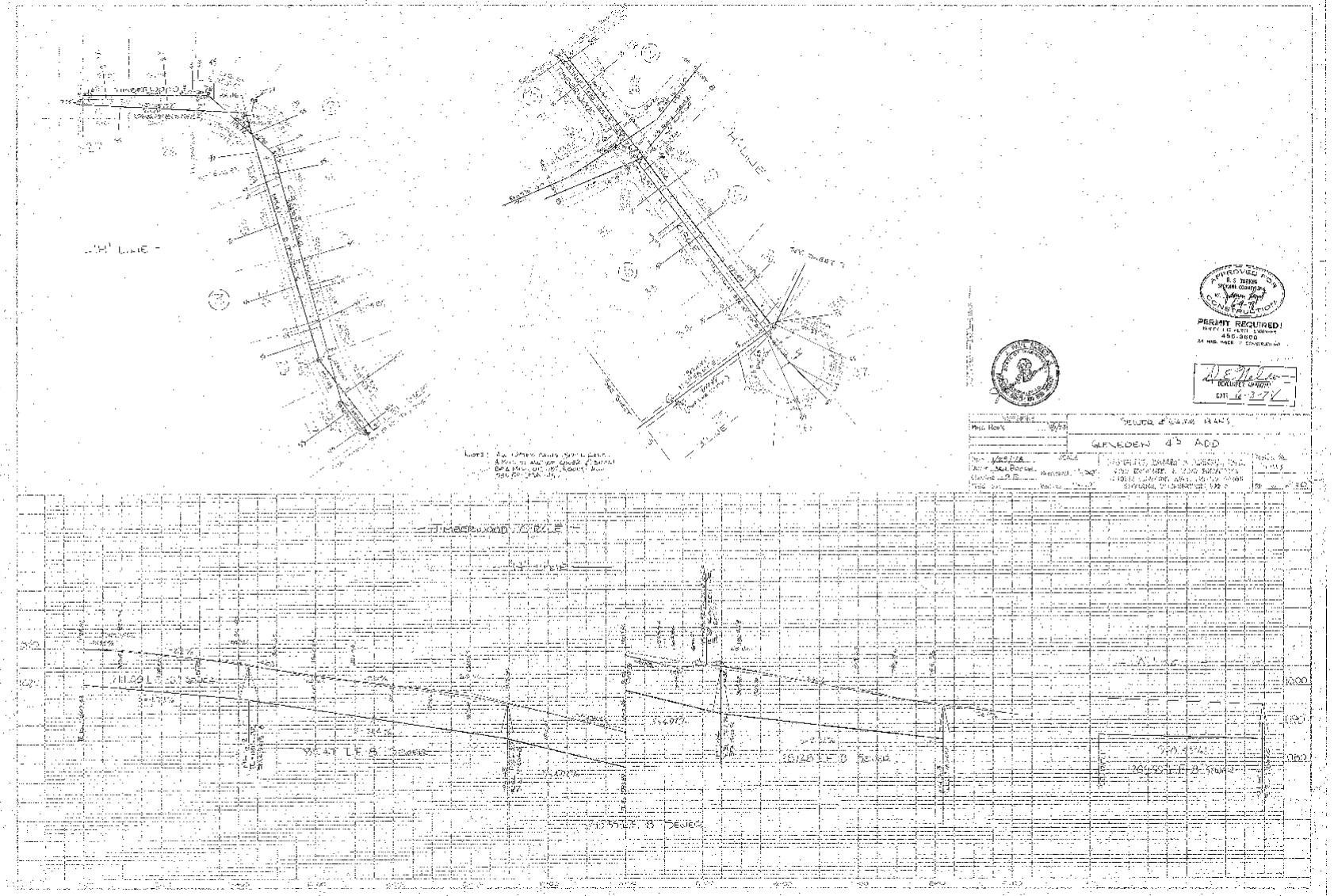
EDENCREST DR.
EDENCREST CT.
A LINE
B LINE
SEE LEFT
SEE SHEET
PERMIT REQUIRED
APPROVED FOR CONSTRUCTION



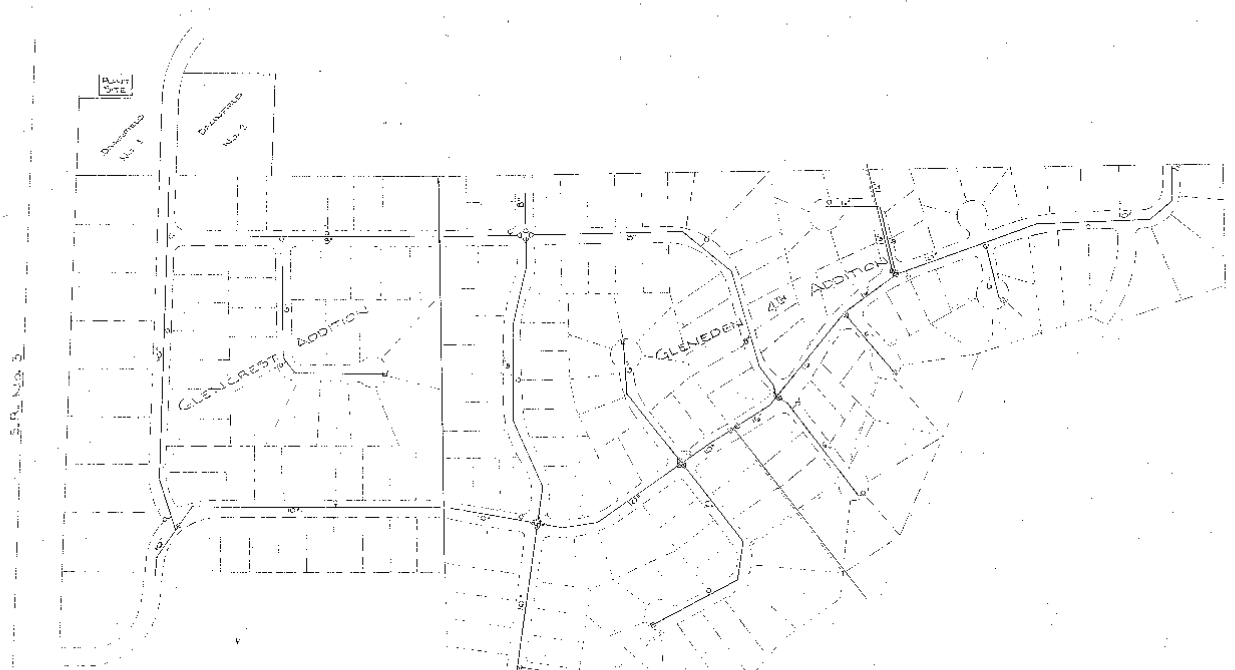
"B" LINE
"F" LINE
"E" LINE
"A" LINE
SUNCREST DR
"E" LINE
SUNCREST CT
"B" LINE
APPROVED FOR CONSTRUCTION
PERMIT REQUIRED!
486-3600



"A" LINE
"B" LINE
"C" LINE
"A" LINE
"X" LINE
APPROVED FOR CONSTRUCTION
PERMIT REQUIRED!
FIRCREST CIRCLE
"B" LINE
"A" LINE
"A" LINE
8" SEWER



TIMBERWOOD
'H' LINE
'H' LINE
APPROVED FOR CONSTRUCTION
R. S. TURKIN
SPECIAL COMPUTING
PERMIT REQUIRED!
450-3600
DEVELOPER APPROVED
DATE 6-3-74
SEWER & WATER PLANS
GLENDEN 4th ADD
TIMBERWOOD TO PILE
WEST I.F. 8 SEWER
1000



WATER SYSTEM PLAN
SCHEMATIC ONLY
SCALE : 1"=200'

LEGEND
FIRE HYDRANT
VALVE
BLOW OFF.

WASHINGTON STATE DEPARTMENT OF SOCIAL & HEALTH SERVICES

THE WASHINGTON STATE DEPARTMENT OF SOCIAL & HEALTH SERVICES HAS APPROVED THIS WATER PLAN AS HAVING MET THE APPLICABLE STATE REQUIREMENTS.

SPOKANE COUNTY HEALTH DISTRICT

THE SPOKANE COUNTY HEALTH DISTRICT HAS APPROVED THIS WATER PLAN AS HAVING MET ALL THE APPLICABLE COUNTY HEALTH DISTRICT REQUIREMENTS.

Eugene A. Prothero, R.S.
6/9/78

FIRE DISTRICT

FIRE DISTRICT #9 HAS APPROVED THIS WATER PLAN FOR GLENCREST & GLENEDEN 4TH ADDITIONS. THIS WATER PLAN IS IN CONFORMANCE WITH ALL REQUIREMENTS AND WILL SATISFY OUR NEEDS IN PROVIDING AN ADEQUATE FIRE SYSTEM AND FACILITIES FOR FIRE PROTECTION PURPOSES TO ALL LOTS IN THE ABOVE NAMED PLATS.

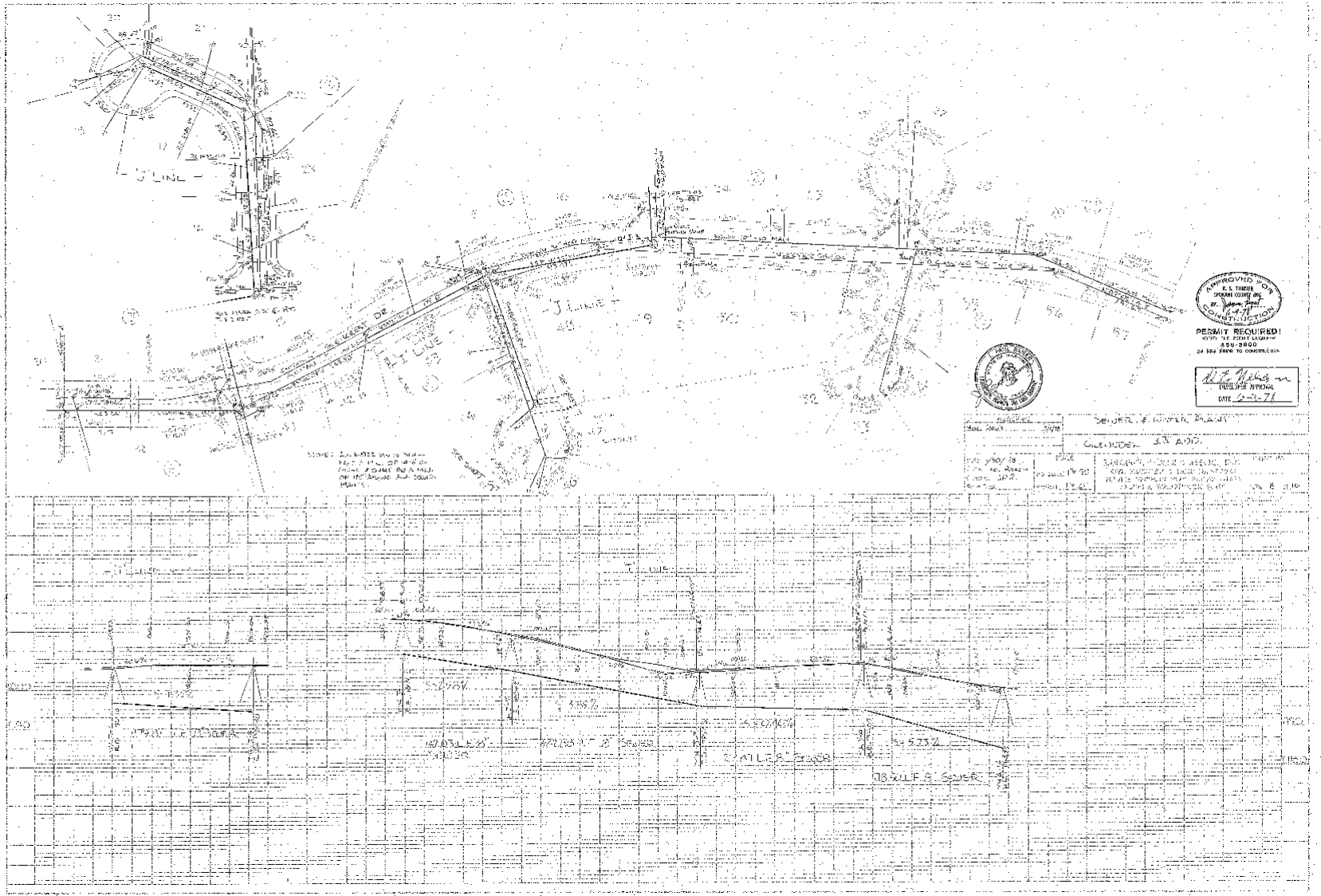
Dep. Chief

WATER SUPPLIER CERTIFICATE

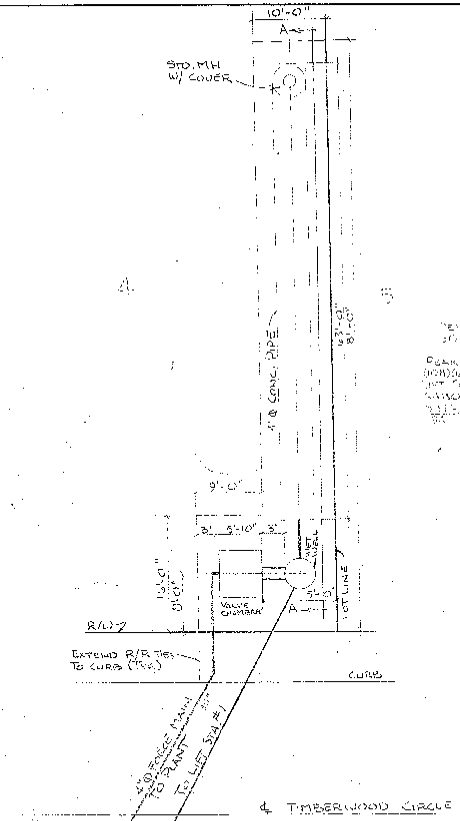
WHITWORTH WATER DISTRICT #7 HAS APPROVED THIS WATER PLAN FOR GLENCREST & GLENEDEN 4TH ADDITIONS. THIS WATER PLAN IS IN FULL CONFORMANCE WITH OUR REQUIREMENTS AND WILL SATISFY OUR NEEDS IN PROVIDING AN ADEQUATE WATER SYSTEM AND FACILITIES FOR DOMESTIC AND FIRE PROTECTION PURPOSES TO ALL LOTS IN THE ABOVE MENTIONED PLATS.

APPROPRIATE CONTRACTUAL ARRANGEMENTS HAVE BEEN MADE WITH DUANE E. NELSON, PROVINCIAL PROPERTIES AND UNION SERVICES CORP. FOR CONSTRUCTION OF THE WATER SYSTEM IN ACCORDANCE WITH THIS PLAN. SAID CONTRACTUAL ARRANGEMENTS INCLUDE A TIME SCHEDULE ACCEPTABLE TO WHITWORTH WATER DISTRICT #7 AND COMMIT MATSUNE BROTHERS INCORPORATED TO THE INSTALLATION OF INSPECTED SERVICE LINES IN EACH LOT PRIOR TO ANY APPLICATION FOR BUILDING PERMIT FOR SAID LOTS.

Donald E. Gordon

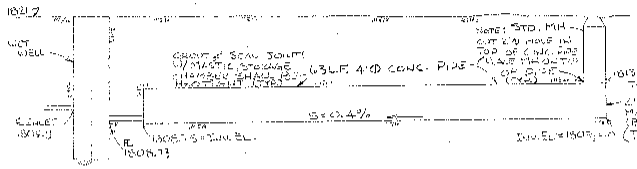


J LINE
J LINE
J LINE
APPROVED FOR CONSTRUCTION
R. S. THEIER
SPOKANE COUNTY ENG.
BY
6-4-78
PERMIT REQUIRED!
NOTIFY THE PERMIT LIEGHTON
456-3800
24 HRS PRIOR TO CONSTRUCTION
DEVELOPER APPROVAL
DATE 6-3-78
SEWER & WATER PLANT
GLENDEN 1st ADD.



LIFT STATION #1 SITE PLAN W/ EASEMENT LOCATION

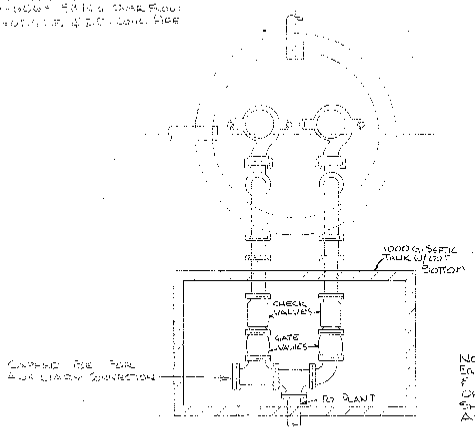
DESIGN CALC. - STA. 1
108 TOT. HOMES (61 GLENCREST, 47 FUTURE ADD)
108(100)(3.6) = 216/M AVG. F.
1440
(.71)(4) = 1086/M PEAK F.



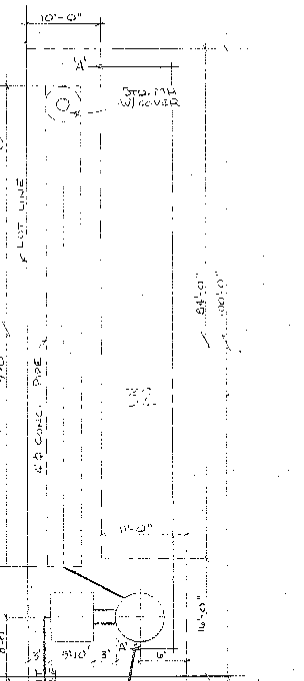
SECTION 'A-A'
LIFT STATION NO. 1
W/ EMERGENCY STORAGE

DESIGN CALC. FOR STORAGE OF 60 MIN. PEAK FLOW L.STA. 1

PEAK F. = 1086/M
(108)(60) = 6480/M TOT. STORAGE
LIFT STA. CAP. = 3780
STAGE 1 = 2700 g. OVER FLOW
2700 = 15.0 L.F. 4" I.D. CONC. PIPE



TYPICAL LIFT STATION
(SCHEMATIC ONLY)

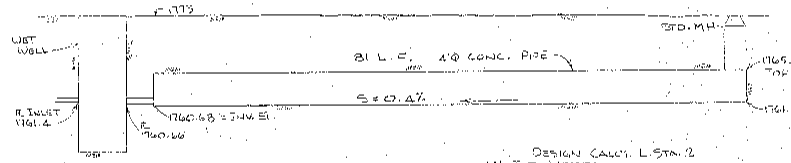


DESIGN CALC. FOR STORAGE OF 60 MIN. PEAK FLOW L.STA. 2

PEAK F. = 1466/M
(146)(60) = 8760/M TOT. STORAGE
LIFT STA. CAP. = 5760
STAGE 1 = 3960 g. OVER FLOW
3960 = 19.6 L.F. 4" I.D. CONC. PIPE

NOTE: THE AREA AROUND EQ. L. STA. SHALL BE STERILIZED & VEGETATE PLACED UNDER WASHED ORNAMENTAL ROCK. R/R TIES SHALL BE PLACED AROUND SAID AREA.

LIFT STATION # 2
SITE PLAN W/
EASEMENT LOCATION



SECTION 'A-A'
LIFT STATION NO. 2
W/ EMERGENCY STORAGE

DESIGN CALC. L.STA. 2
146 TOT. HOMES
(146)(100)(3.6) = 526/M AVG. F.
1440
(526)(4) = 1466/M PEAK F.

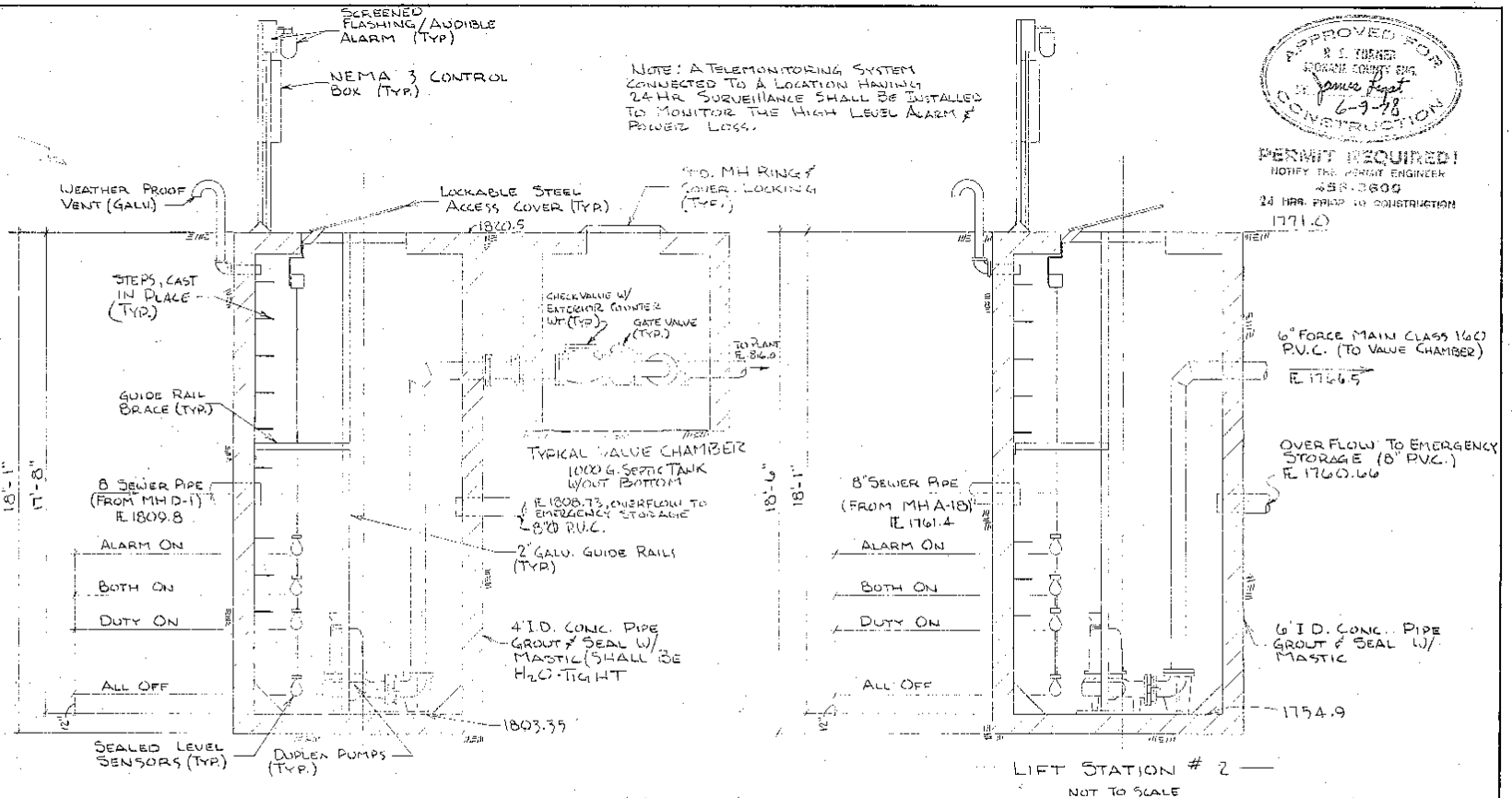
APPROVED FOR
J. A. JOHNSON
SPOKANE COUNTY, WASH.
BY Harold Grant
6-1-78
PERMIT APPROVED
NOTIFY THE COUNTY
456-3600
24 HRS. PRIOR TO CONSTRUCTION

DEVELOPER APPROVAL
DATE 5-30-78

MAC/RCH 5/1/78

SARGENT, RAMER & ASSOCIATES, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
N. 10115 NEWPORT HWY., SPOKANE, WASHINGTON 99218 PH: HU 7-1658

Date: 4/26/78	LIFT STATIONS 1 & 2	Project No. 77272
Scale: 1"=10'	GLENCREST / GLENESDEN 4TH	
Drawn: KEN ROACH		
Checked: J.W.R.		
Field Book:		Sht 1 of 2



LIFT STATION # 1
NOT TO SCALE

LIFT STATION # 2
NOT TO SCALE

APPROVED FOR CONSTRUCTION
R. S. TURNER
SPOKANE COUNTY ENG.
James Legat
6-9-78

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
458-3600
24 HRS. PRIOR TO CONSTRUCTION

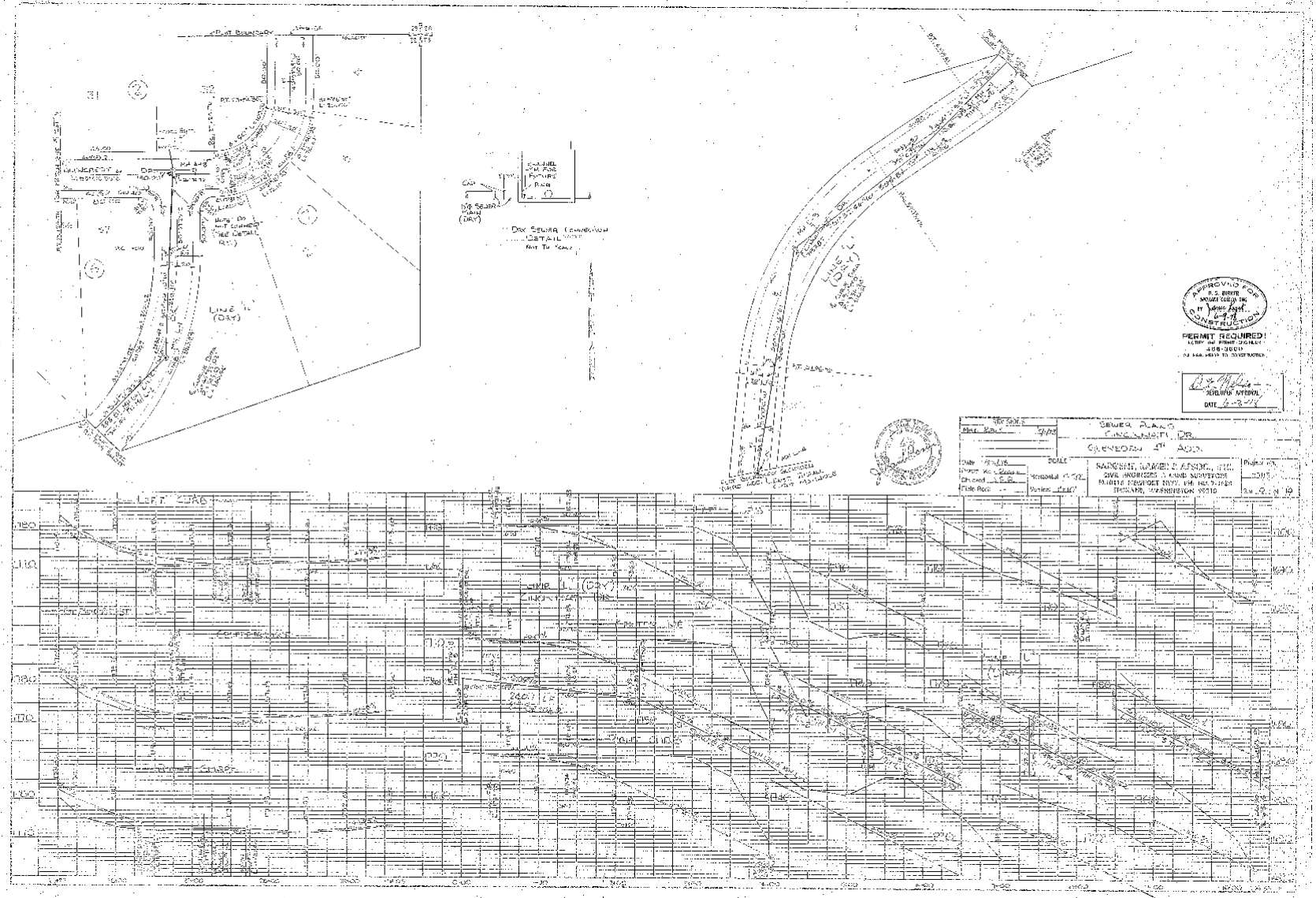
DEVELOPER APPROVAL
DATE

J. Paul Ramer

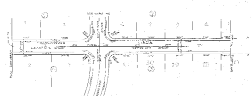
MISC. REV'D 5/1/79

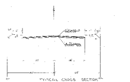
SARGENT, RAMER & ASSOCIATES, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
N. 10115 NEWPORT HWY., SPOKANE, WASHINGTON 99218 PH: HU 7-1658

Date: 4-14-78 Scale: AS NOTED Drawn: KEN ROACH Checked: J.P.R. Field Book: N.A.	LIFT STATIONS 1 & 2 GLENCREST / GLENEDEN 4TH SEWAGE TREATMENT PLANT	Project No. 77272 Sht 2 of 2



LINE 'L' (DRY)
DRY SEWER CONNECTION DETAIL
NOT TO SCALE
APPROVED FOR CONSTRUCTION
PERMIT REQUIRED!
DEVELOPER APPROVAL
DATE 6-3-78
SEWER PLANS
CINCINNATI DR.
GLENEDAN 4TH ADD.
SARGENT, LAUGER & ASSOC., INC.
CIVIL ENGINEERS & LAND SURVEYORS
LEFT CURB
RIGHT CURB





NOTES:
1) CONSTRUCT SPOKANE COUNTY STANDARD CURBS.
2) PLACE PRE-CAST EXTRA DEPTH DRYWELLS AT ...
3) PLACE PRE-CAST STANDARD DEPTH DRYWELLS AT ...
4) STORM DRAIN PIPE SHALL BE ... WITH 24" MIN. COVER.
5) CONSTRUCT COUNTY STANDARD GUTTER & CURB INLET AT DRYWELLS ...
6) CONSTRUCT COUNTY TYPE GUTTER INLETS AT ...
7) CONSTRUCT WASH. STATE DEPT. OF HIGHWAYS ... "METAL FRAME & GRATE" ... GUTTER INLETS AT ...
8) ...

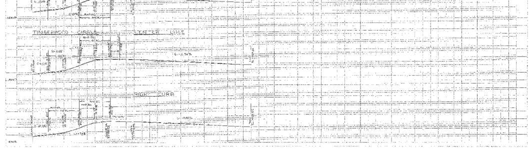
APPROVED FOR CONSTRUCTION

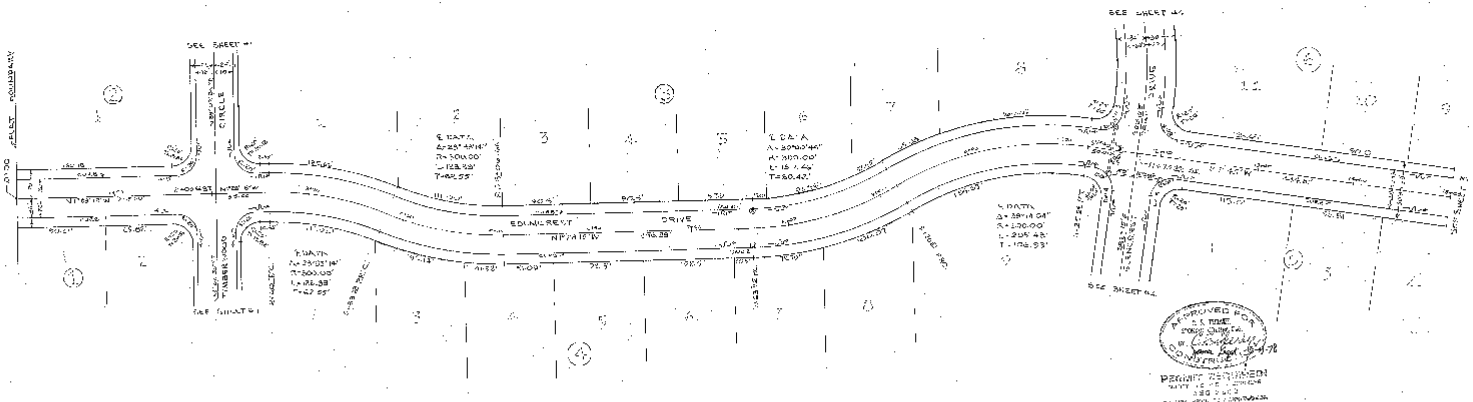
PERMIT REQUIRED!

STREET PLANS - TIMBERWOOD CIRCLE

GLENEDON FOURTH ADDITION

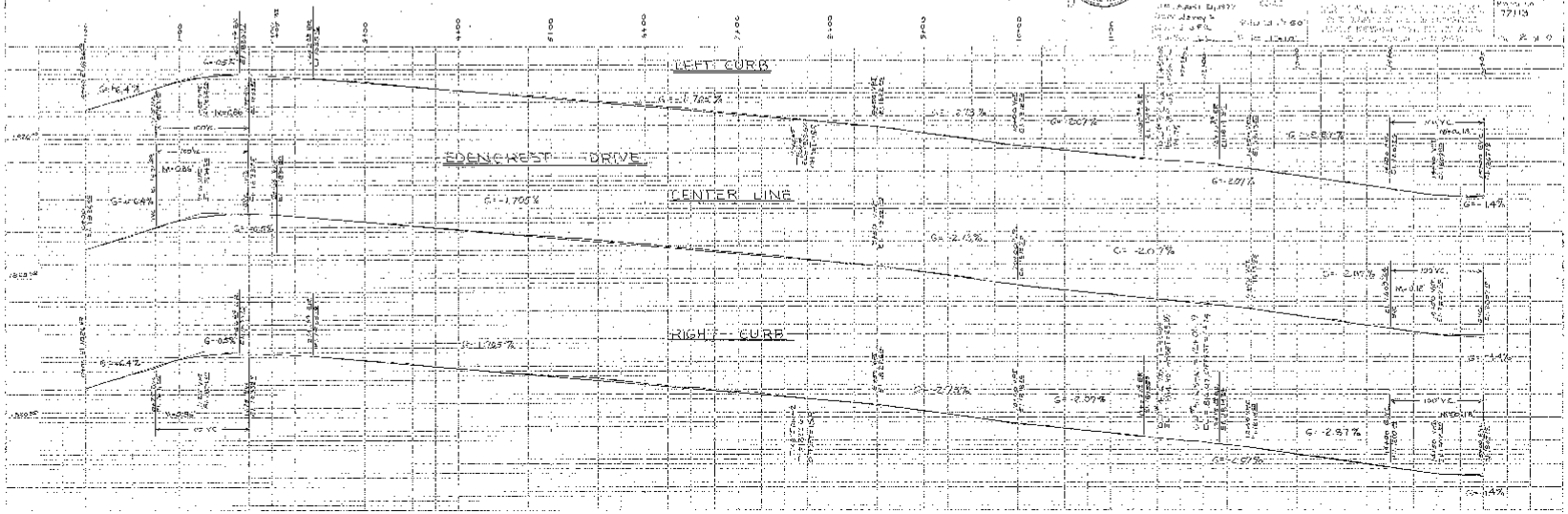
72-3

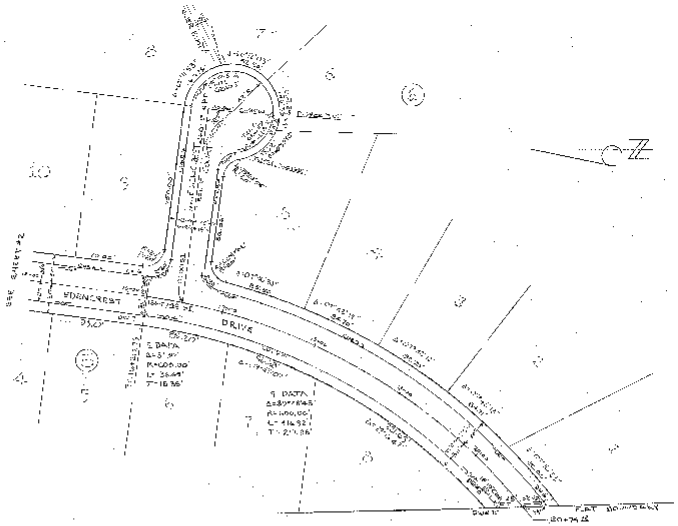


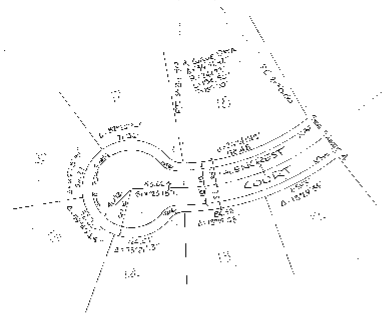


STREET PLANS EDENCREST DRIVE

GLENEDEN FOURTH ADDITION





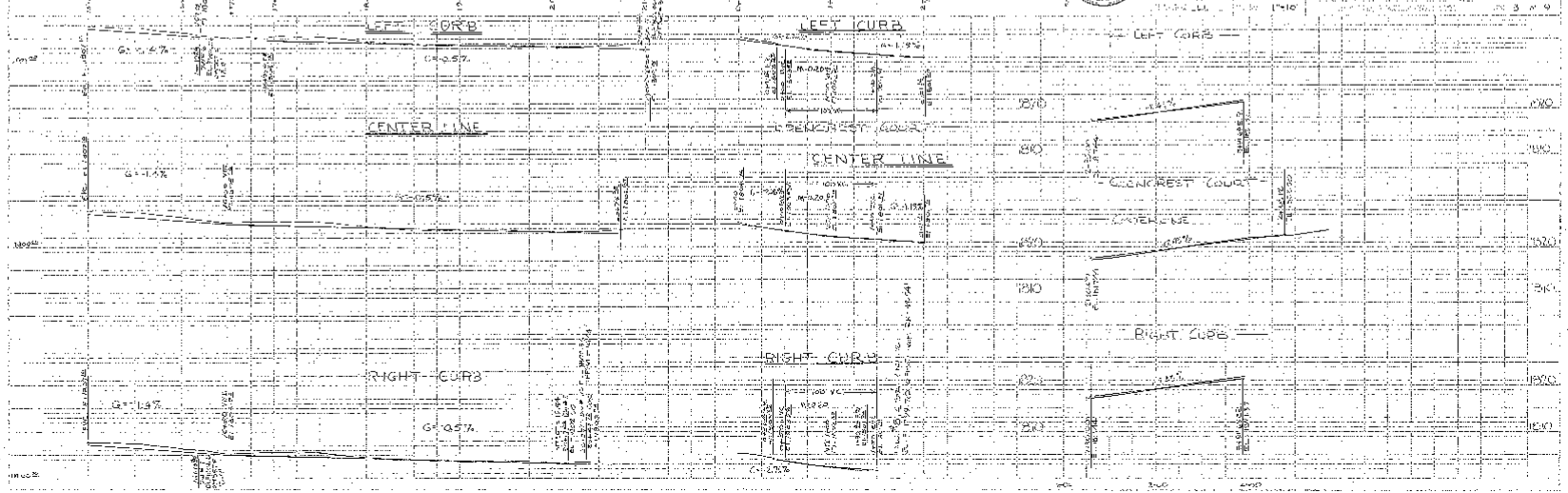


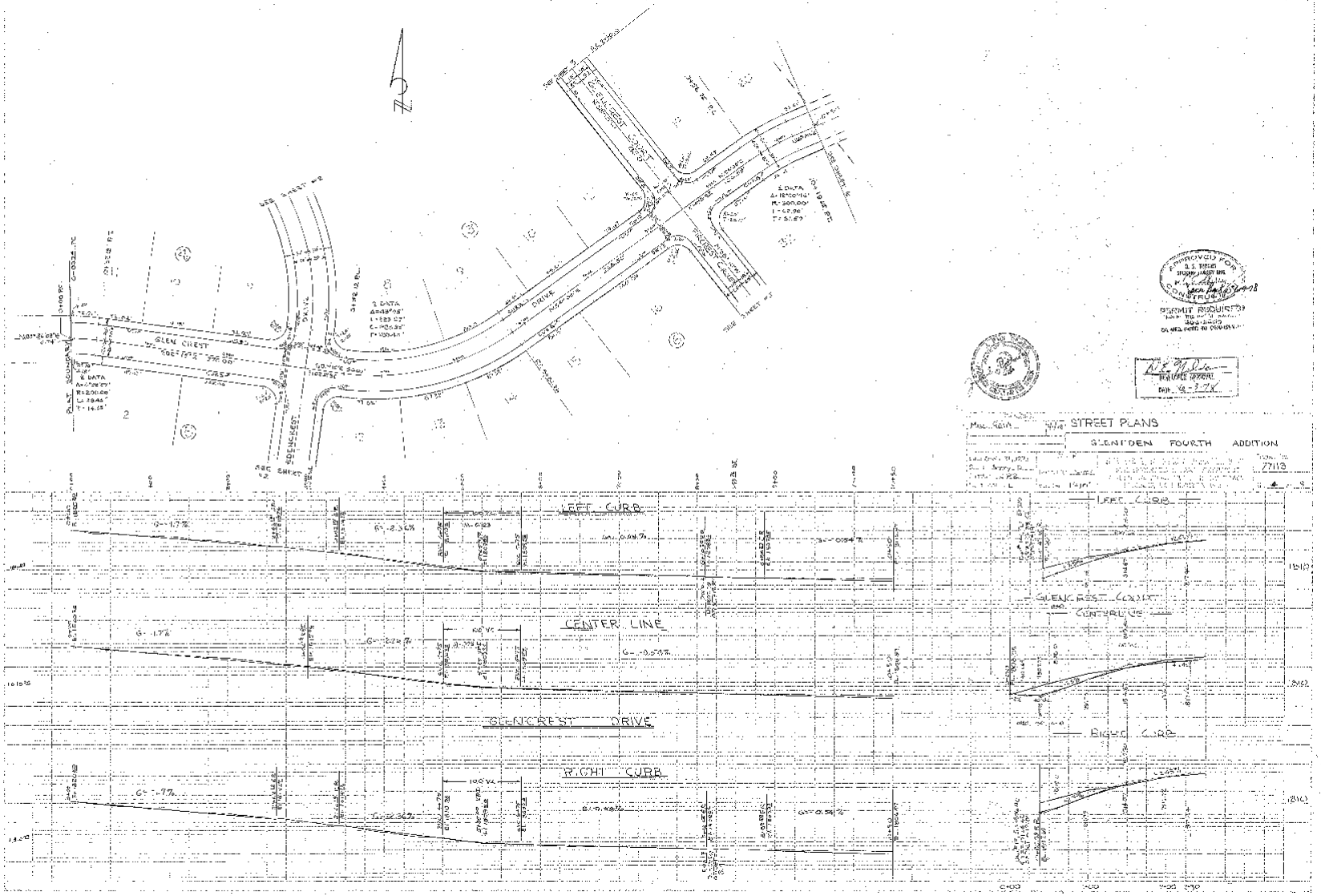
APPROVED FOR CONSTRUCTION

PERMIT REQUIRED

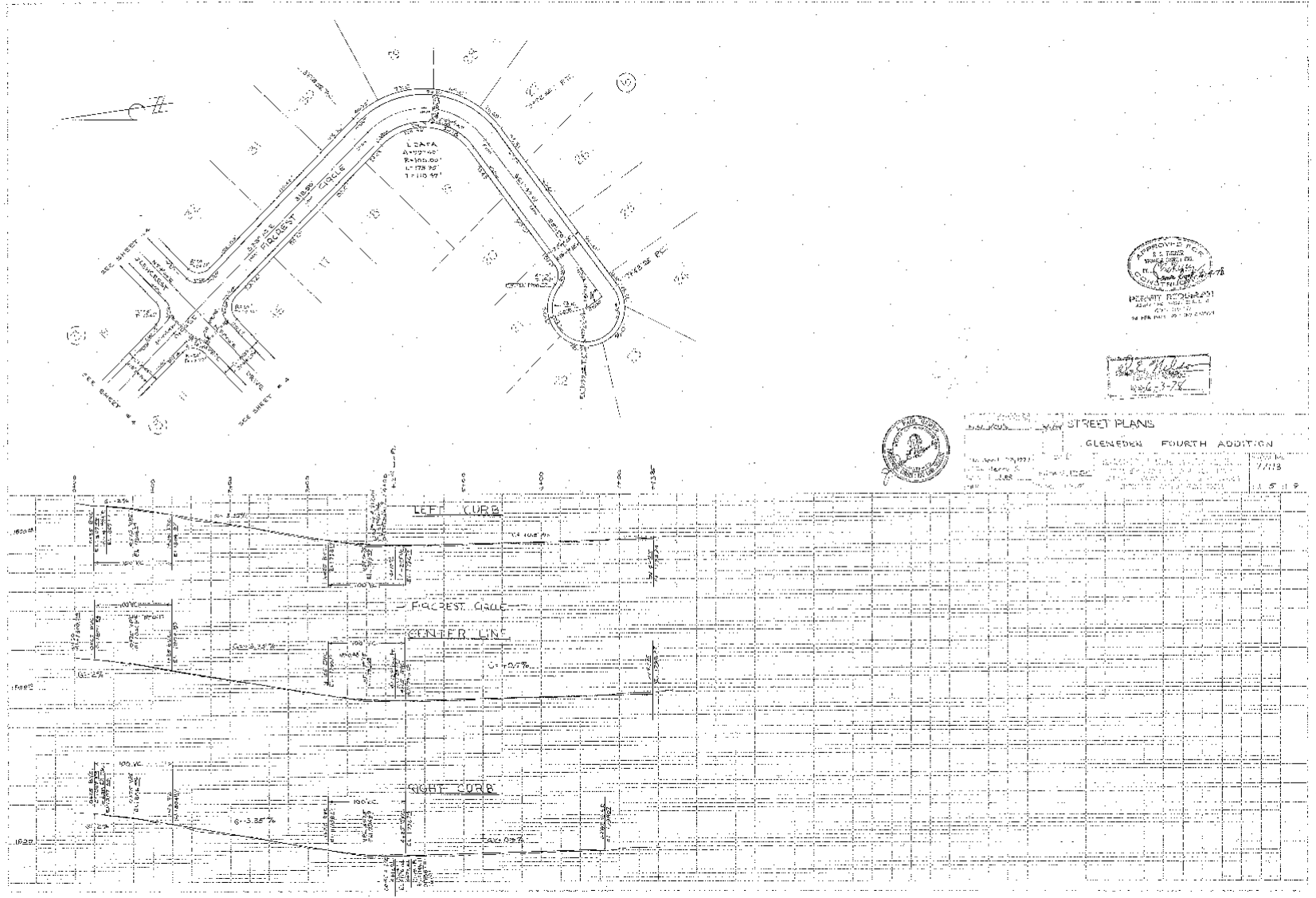
STREET PLANS

GLENEDEN FOURTH ADDITION



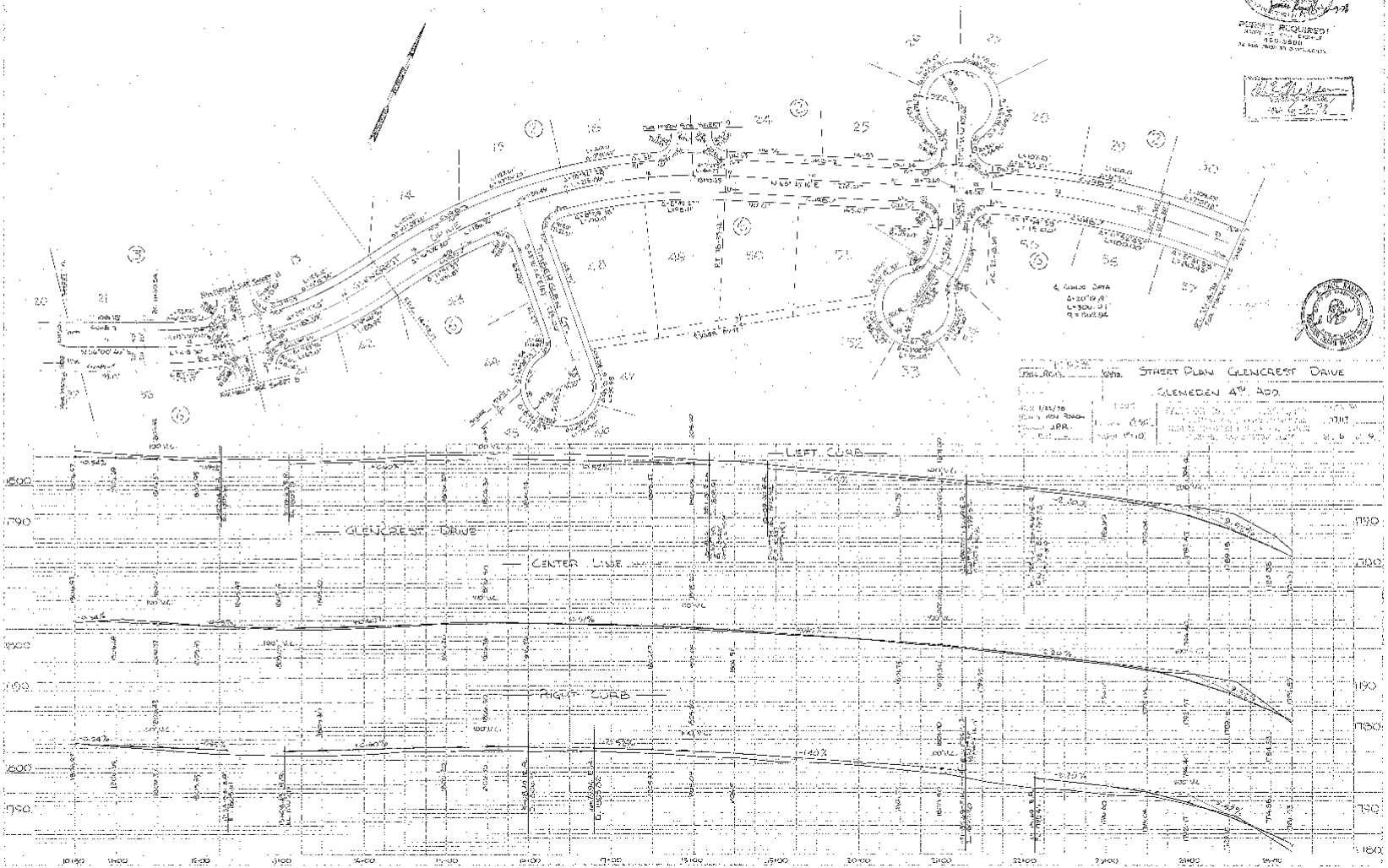


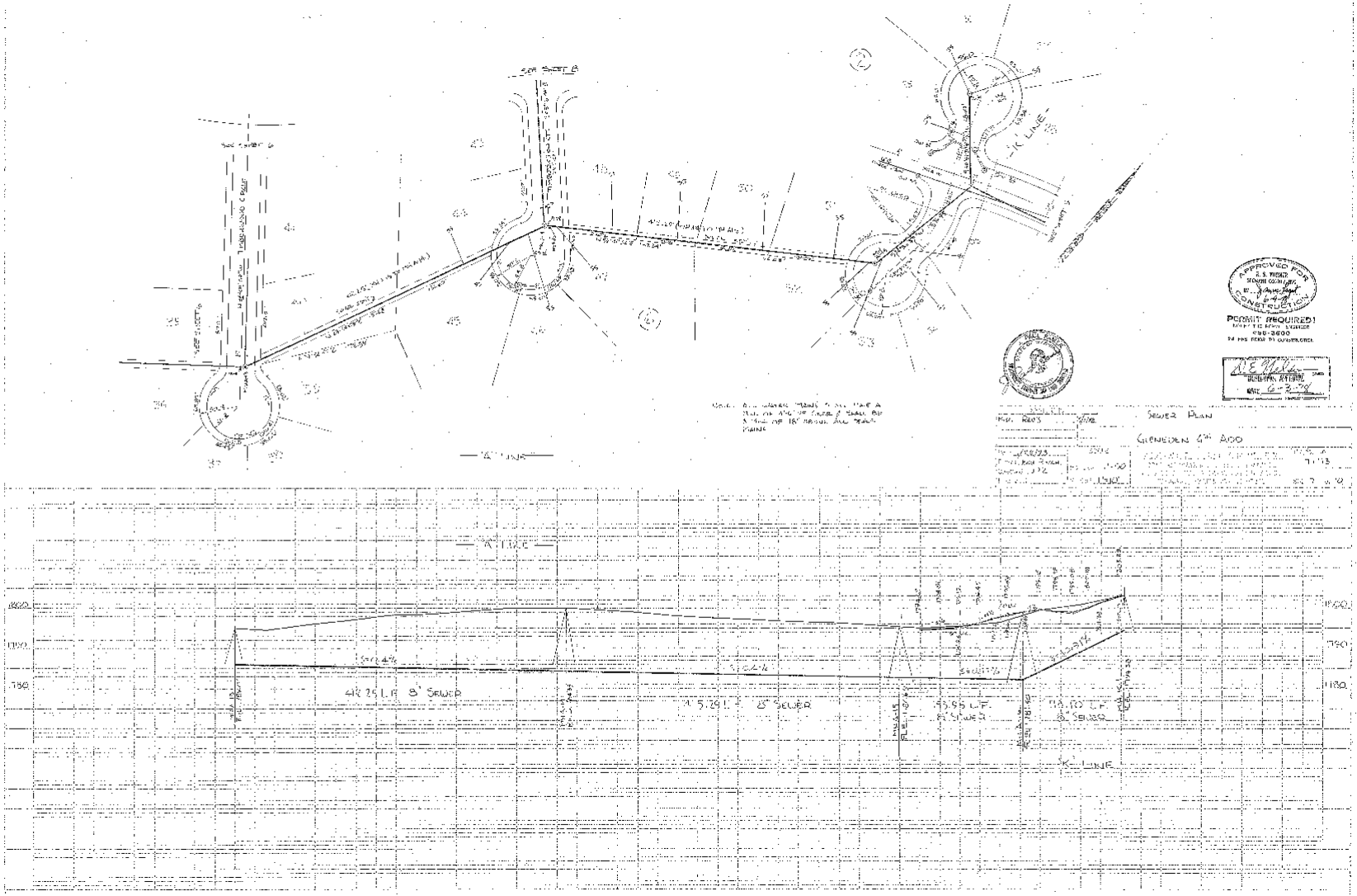
STREET PLANS
GLENDEN FOURTH ADDITION
77113
LEFT CURB
CENTER LINE
GLENCREST DRIVE
RIGHT CURB
GLENCREST COURT
CENTERLINE
GLEN CREST
SEE SHEET #2
SEE SHEET #3
PERMIT REQUIRED
APPROVED FOR CONSTRUCTION



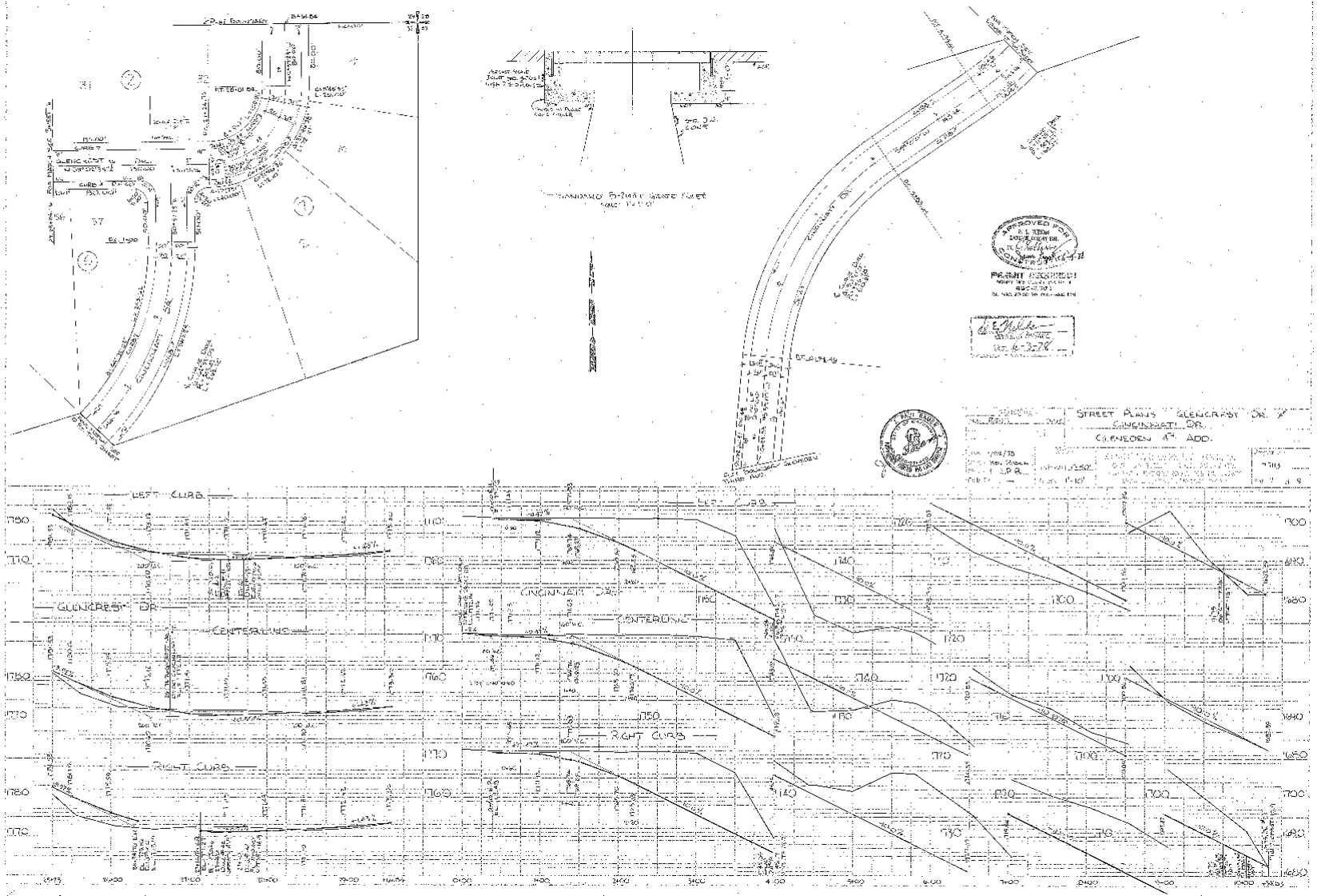
FIRCREST CIRCLE
L DATA
SEE SHEET #4
LEFT CURB
FIRCREST CIRCLE
CENTER LINE
RIGHT CURB
G-3.35%
APPROVED FOR CONSTRUCTION
PERMIT REQUIRED
STREET PLANS
GLENEDEN FOURTH ADDITION
7/1/13

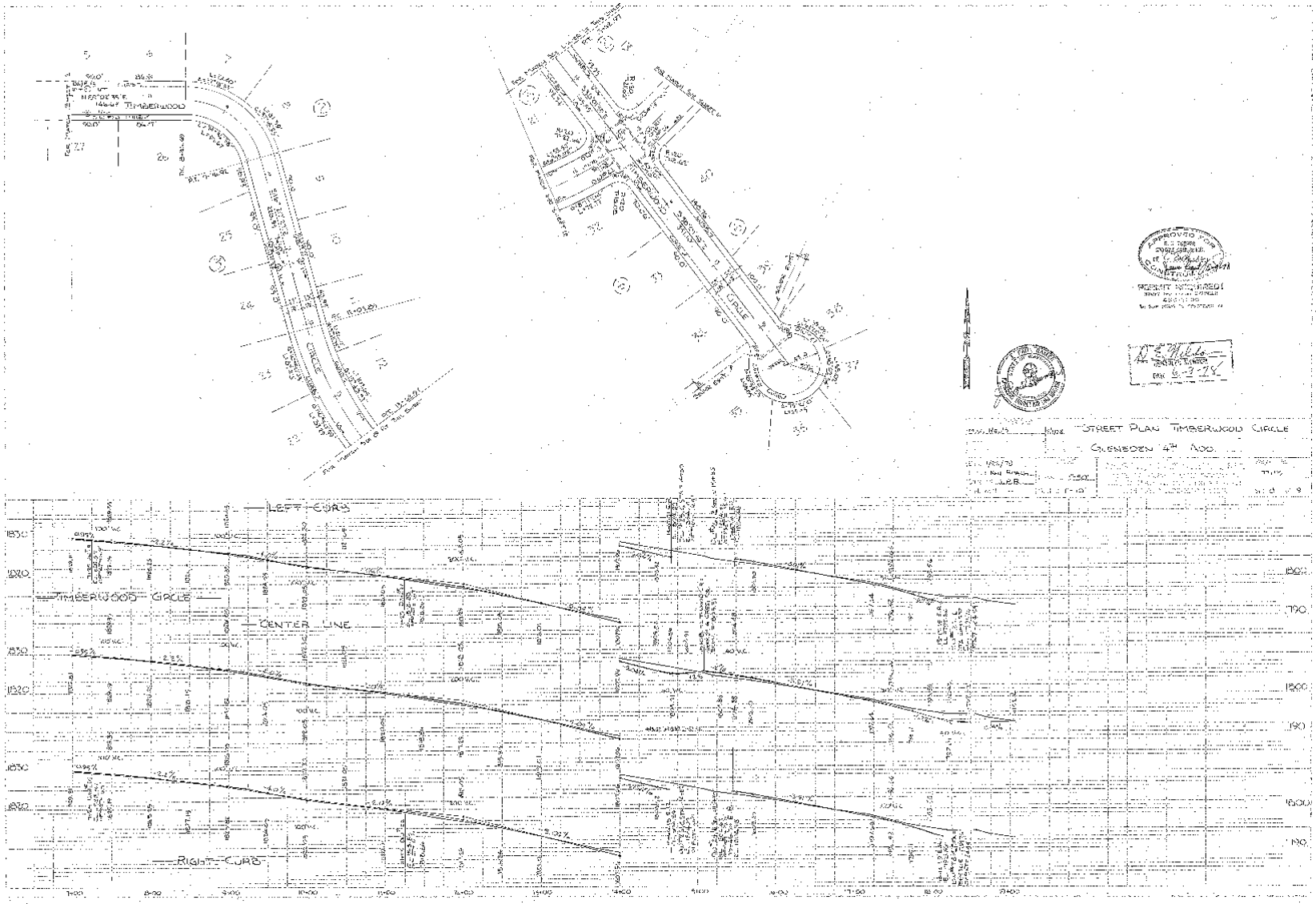
NOTE: FOR CUL-DE-SAC DETAILS
PLANS SEE SHEET 9 OF 9

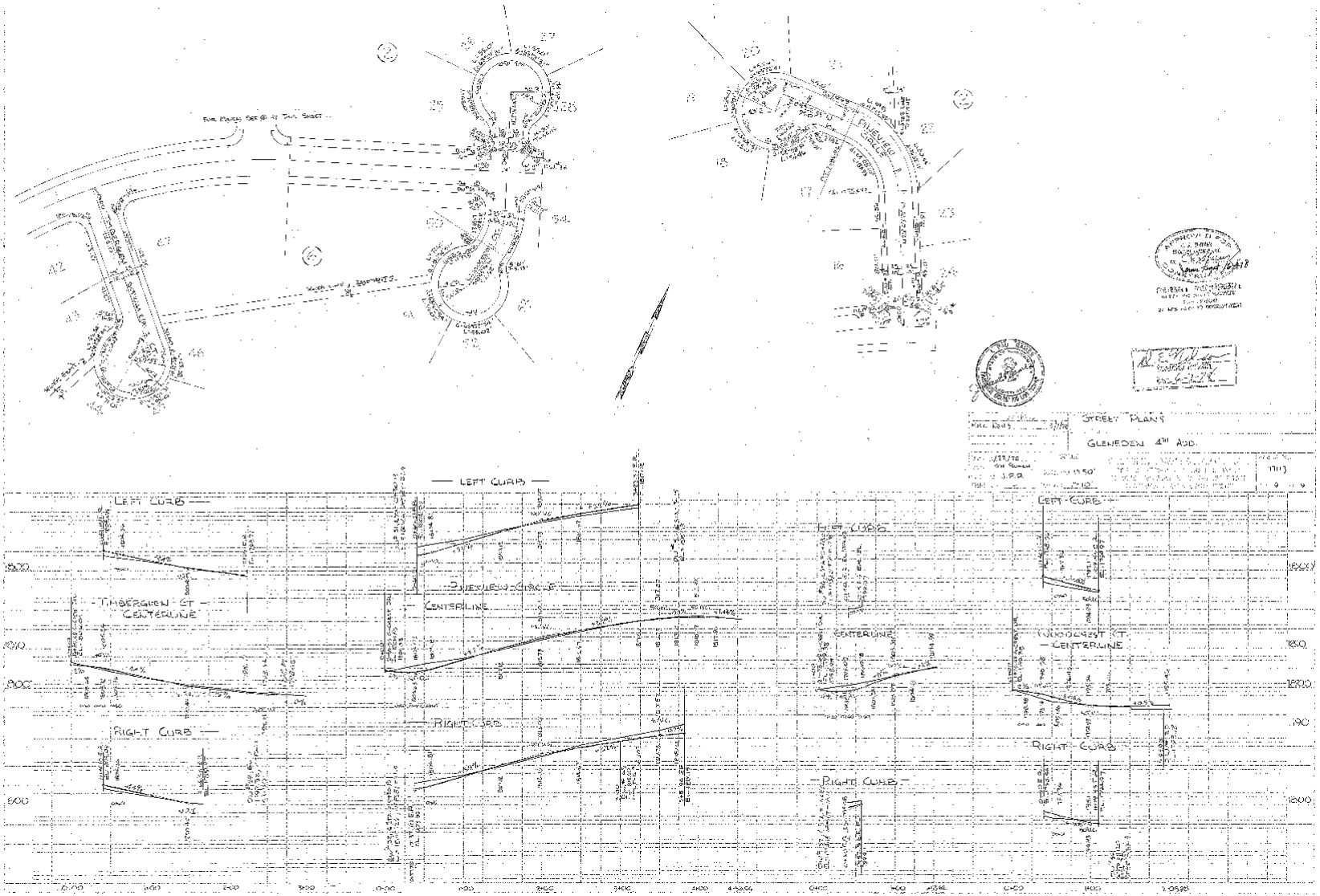




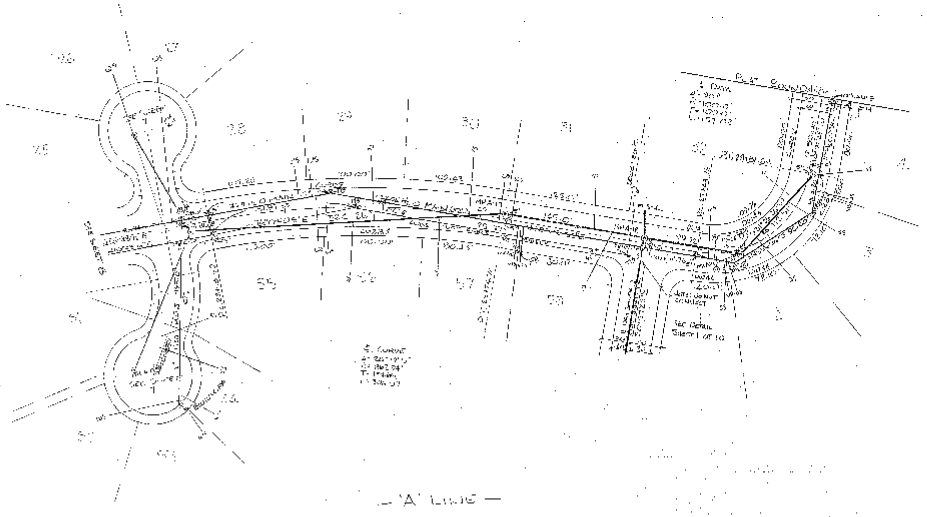
SEE SHEET B
SEE SHEET 6
'K' LINE
'A' LINE
APPROVED FOR CONSTRUCTION
PERMIT REQUIRED!
SEWER PLAN
GLENEDEN 4TH ADD
1800
1790
1780
412.25 L.F. 8" SEWER
415.29 L.F. 8" SEWER
93.95 L.F. 8" SEWER
98.10 L.F. 8" SEWER
'K' LINE


STREET PLANS GLENCREST DR. & CINCINNATI DR.
GLENEDEN 4th ADD.
APPROVED
PERMIT RECORDED
LEFT CURB
GLENCREST DR.
CENTERLINE
CINCINNATI DR.
RIGHT CURB


TIMBERWOOD
CIRCLE
LEFT CURB
TIMBERWOOD CIRCLE
CENTER LINE
RIGHT CURB
STREET PLAN TIMBERWOOD CIRCLE
GLENEDEN 4TH ADD.



STREET PLANS
GLENEDEN 4TH ADD.
LEFT CURB
RIGHT CURB
CENTERLINE
TIMBERGLEN CT
PINEVIEW CIRCLE
WOODCREST CT



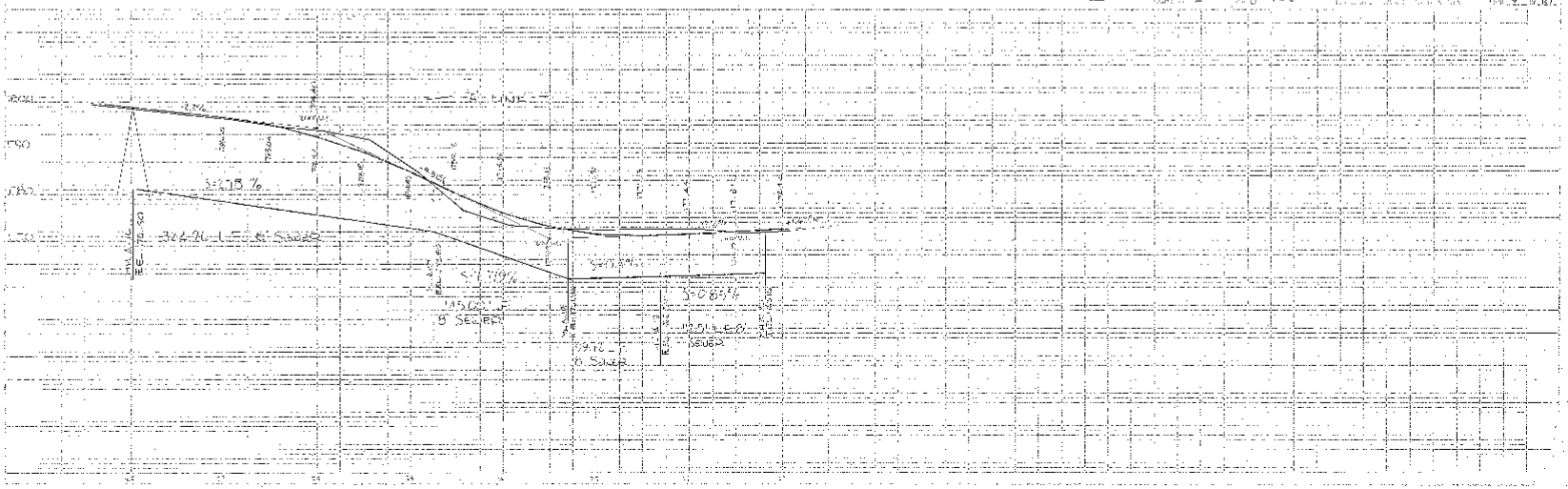
— 'A' LINE —

NOTE: [illegible]

APPROVED FOR CONSTRUCTION
2.5 TURNER
MOUNT COUNTY INC.
6-9-78

PERMIT REQUIRED!
[illegible]
438-3500
24 HRS. [illegible]

DEVELOPER APPROVAL
DATE 6-3-78

SEWER & WATER PLANS

GLENEDEN 2ND ADD.