

S. W. S. NO. 159

STORM SEWERS IN WHISPERING PINES ESTATES

PROJECT NO.

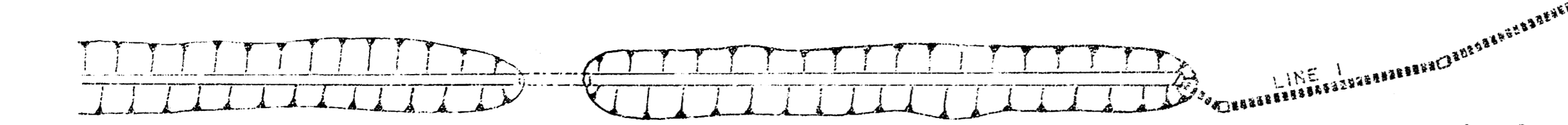
468-76-245-80755-000-000-001

CITY OF WICHITA, KANSAS
DEAN SELLERS, ACTING CITY ENGINEER

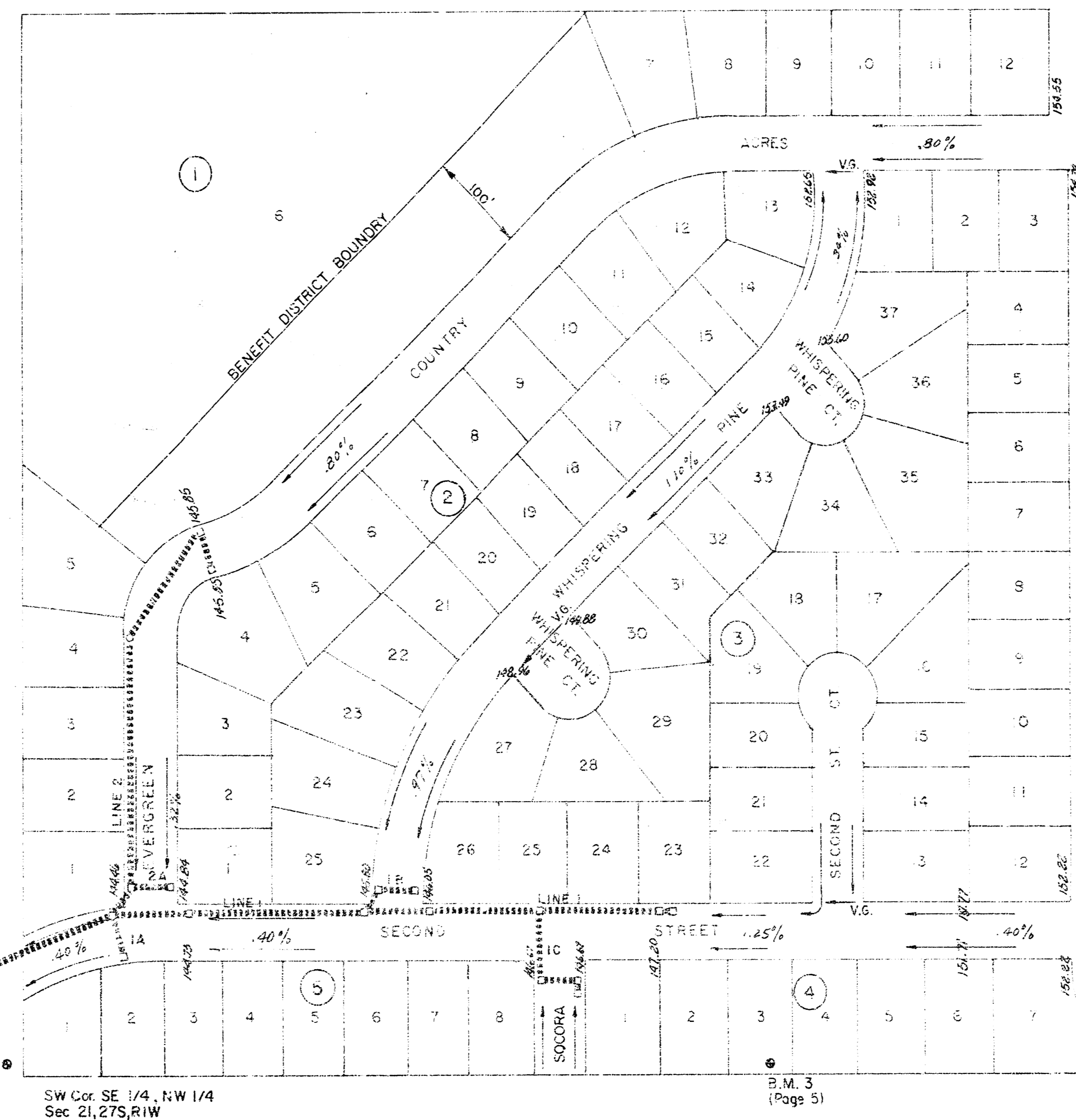
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH PAVING AND SANITARY CONTRACTORS AND CONTACT NEARBY UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT SITE DEVELOPMENT.
2. FIELD CONDITIONS SHALL TAKE THIS TO ALL THIRDS AND THIRDS IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL NINE IRONS AND CHIMNEYS DESTROYED DURING CONSTRUCTION.
3. THE DEPTH OF INLETS AND MANHOLES AS SHOWN ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVED SURFACE ELEVATIONS. THE FIELD ENGINEER SHALL DRAIN INLETS AND MANHOLES WITH REFERENCE TO PROPOSED FINISH PLANS OF THE PERTAINING STREETS.
4. ALL METAL PIPES SHALL BE HEAVILY CORRUGATED PIPE. ALL SOFT CORRUGATED PIPE SHALL BE SMOOTH FLOOR PIPES FOR STEEL 24" DIAMETER AND LARGER. ALL CONNECTIONS FOR THESE PIPES SHALL BE EXACTLY AS SHOWN IN THE CONSTRUCTION DETAILS OF THESE PIPES.
5. ALL MANHOLES SHALL BE 6' HIGH CONCRETE UNLESS OTHERWISE SHOWN.
6. THE RIPRAP FOR THIS PROJECT SHALL BE TYPE 3. THE TYPE 3 RIPRAP SHALL BE 12" RIPRAP ON 6" SAND AND GRAVEL BEDDING. THE RIPRAP FOR RETAIN AND CURB PROTECTION SHALL BE HARD, DENSE, DURABLE AND SHALL BE PERSONALLY WELL GRADED. THE SILE RANGE OF ROCK USED SHALL BE A MAXIMUM OF ONE CURB FOOT AND A MINIMUM OF 1 1/2" INCH. THE 6" SAND AND GRAVEL BEDDING FOR RIPRAP SHALL BE A COMPOSITE MASH OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2" INCHES IN SIZE.
7. CONTRACTOR SHALL AVOID EXPOSURE EXISTING WATER LINES UNLESS ABSOLUTELY NECESSARY. EXPOSURE SHALL BE DONE ONLY IN THE PRESENCE OF A SAVER OR LICENSED ENGINEER.
8. CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING FURROW OR TYPE 1A CURB INLETS IN LIEU OF THE TYPE 1A INLETS. SEE STANDARD DETAILS FOR TYPE 1A CURB INLET DATED AUGUST, 1979.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR SIGNING AND ERECTING OF SIGNALS.

B.M. 1
(Page 2)



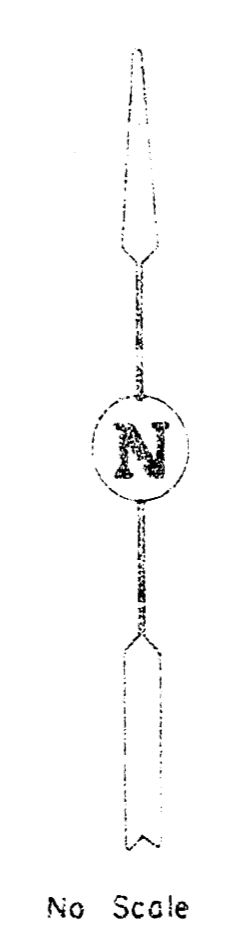
B.M. 2
(Page 4)



SW Cor. SE 1/4, NW 1/4
Sec 21, 27S, R1W

B.M. 3
(Page 5)

SE Cor. NW 1/4
Sec 21, 27S, R1W



No Scale

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	CHANNEL IMPROVEMENT
4-5	LINE 1, 1A, 1F, 1C, 2, 2B
6	LINE 1, 1A, 2, 2A
7	STANDARD TYPE 1A INLET
8	CROSS SECTIONS

WHISPERING PINES ESTATES
468-76-245-30755-000-000-001

Whisper Junior High School
(Grass Area)

10' Temporary Const Easmt

Contractor Shall Have All Existing
Underground Utilities Located
Prior To Excavation

Scale: 1" = 20' Horiz.
1" = 5' Vert.

Contractor responsible to
contact H.G. & E. to locate
buried Power line prior
to construction

Contractor shall be responsible
for determining location of
gas lines if necessary

Contractor to contact Southwestern
Bell prior to construction for
exact location of buried
telephone cable

S line NW/4

Second Street
(Gravel)

Lot 18
Park Acres

Lot 14
Park Acres Section

B.M. #1: City Sidewalk cut top of center
conic headwall to RCP across
Tyler E side Tyler Elev. 137.25

C&G LF of channel with bottom @ 137.1
very side slopes to match existing top
bank see cross sections

Sta. 6+50 Right of Way

South Top of Bank

North Top of Bank

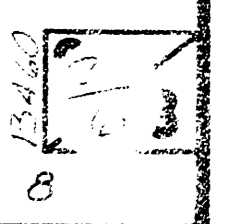
DWS Whispering Pines ariv

Existing Ground @ 5-7

R Channel

Buried Telephone
Cable

Buried Power
Cable



5

6

7

134.62

134.45

134.27

134.50

134.64

134.57

134.40

130

135

130

176.88
150.0'

300.0'

185.0'

R/W

R/W

9500

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WHISPERING PINES ESTATES

468-76-245-30755-000-000-001

Wilbur Junior High School

Grass Area

70' Temporary Constr. Easement

Clean Existing 50 L.F. 48" CIP

Install Type 2 Riprap 155.557

Install Type 2 Riprap 155.557

Expose 8" VCP and expose with grout (6 min. thickness) grout 24" of VCP. Grout to extend from joint to joint

Contractor responsible for contacting K&E to locate Buried Power Line Prior to Construction

Lot 3-02 End Section Channel
Lot 4-01 Channel to be constructed to meet TO

Grass Area

Guard Rail

Existing C.M.P.

Second Street (Gravel)

S Line NW 1/4

Exist 12" VCP

Exist 12" VCP

Lot 16 Park Acres Second

Lot 17 Park Acres Second

Lot 2 Evergreen Place

292 L.F. @ +1.51%

Sta 9+41.5
Exist 48" CIP

Sta 9+91.5
Exist 48" CIP

Existing 48" cast iron Pipe

412 L.F. of channel w/4' bottom @ +1.6%
Vary side slopes to match exist top bank-see cross section

27 L.F. 42" RCP @ +1.45%
w/ 21 L.F. 42" CIP @ +1.45%
Fully paved

South Top Of Bank

North Top Of Bank

South Top Of Bank

North Top Of Bank

DWS Whispering Pines only

Existing Ground @ E-7

E channel

Type 3 Riprap

Remove soil from Exist. 50 L.F. 48" CIP
Clean Dirt settled in Exist 50 L.F. 48" CIP

48" VCP FL=132.6
Grout

FL Out = 134.80 (Existing)

FL In = 135.90 (Existing)

134.05
E-Channel 134.06
134.07

134.05
E-Channel 134.08
134.09

134.05
E-Channel 134.08
134.09

134.60

134.71

134.77

134.77

134.74

134.78

135.45

135.49

135.53

135.57

135.61

135.65

135.69

135.73

135.77

135.81

135.85

135.89

135.93

135.97

136.01

136.05

136.09

136.13

136.17

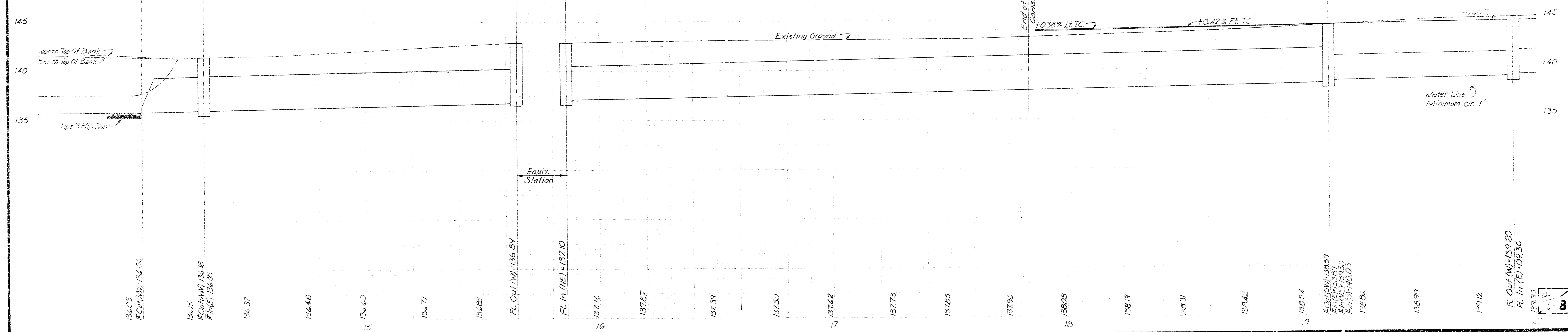
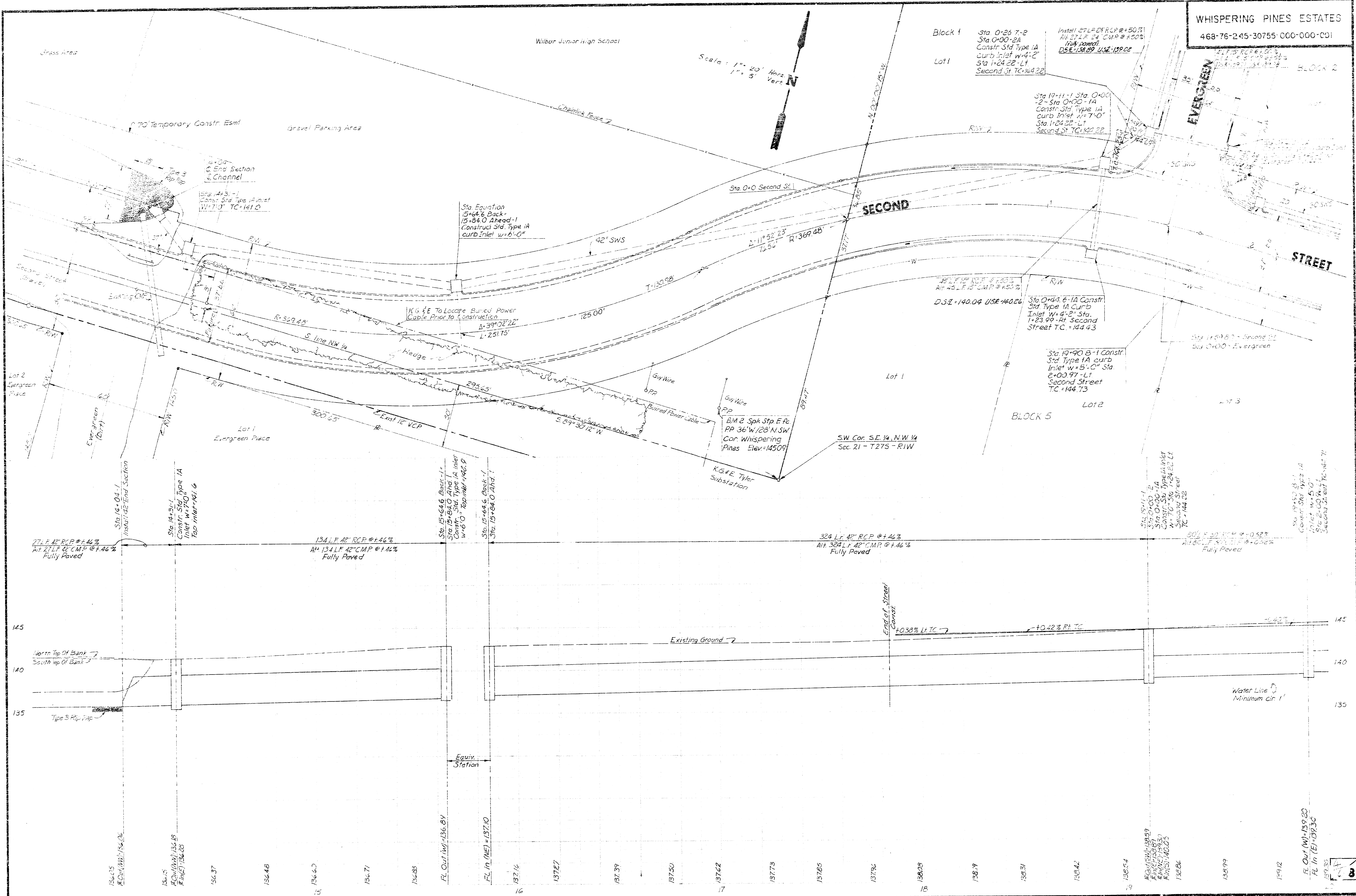
136.21

136.25

136.29

WHISPERING PINES ESTATES
468-76-245-30755-000-000-001

Scale: 1" = 20' Horiz.
1" = 5' Vert.



Block 1
Sta 0+26.7-2
Sta 0+00-29
Constr Sid Type 1A
Curb Inlet W=4'-2"
Sta 1+24.22-LT
Second St TC=144.22

Sta 19+11-1 Sta 0+00
2'-Sta 0+00-1A
Constr Sid Type 1A
Curb Inlet W=7'-0"
Sta 1+24.22-LT
Second St TC=144.22

Sta Equation
5+44.4 Back
19+84.0 Ahead-1
Constr Sid Type 1A
Curb Inlet W=6'-0"

271.12 RCP @ 1.44%
Alt 271.12 CMP @ 1.44%
Fully Paved

134.12 RCP @ 1.44%
Alt 134.12 CMP @ 1.44%
Fully Paved

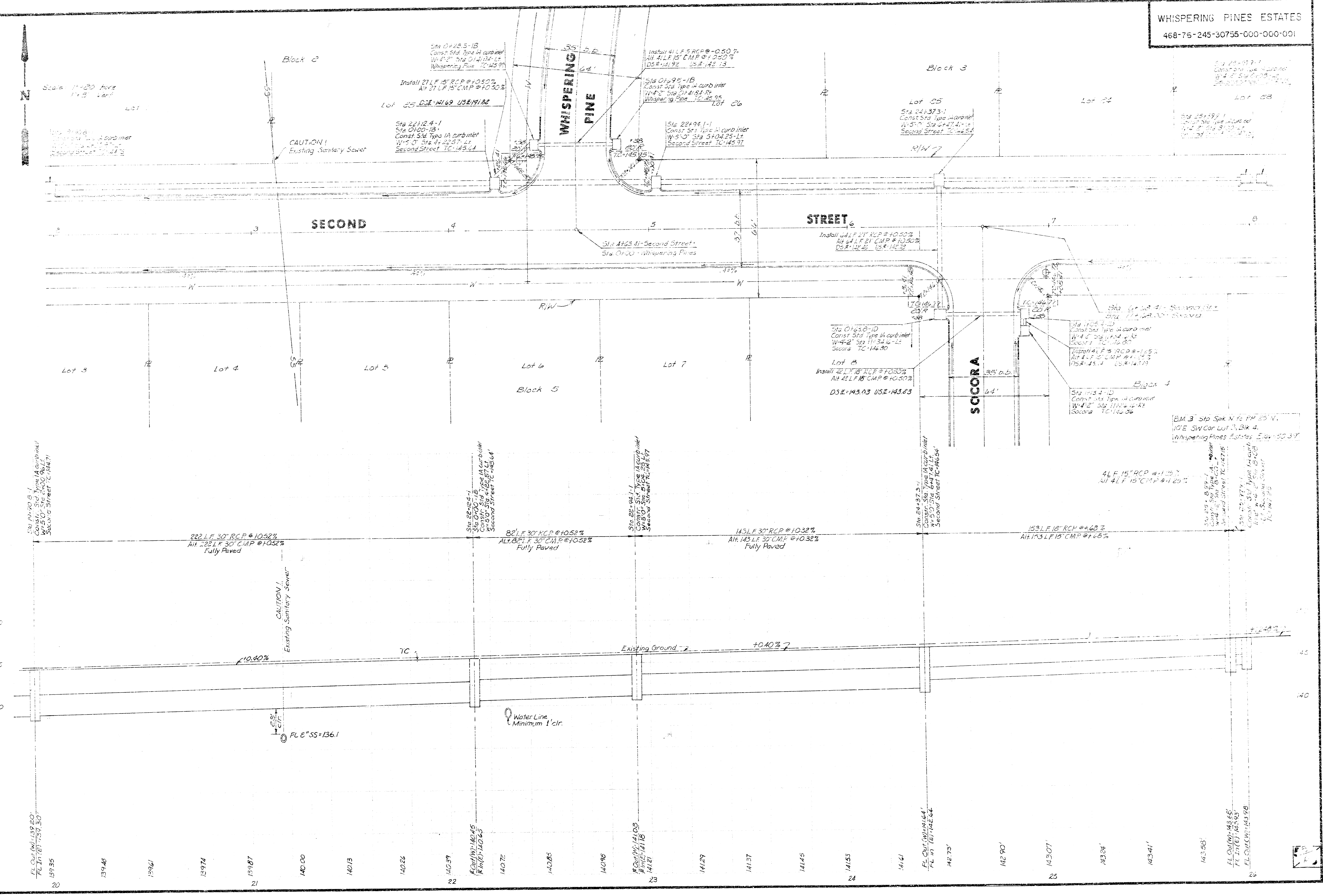
334.12 RCP @ 1.44%
Alt 334.12 CMP @ 1.44%
Fully Paved

301.12 RCP @ 1.44%
Alt 301.12 CMP @ 1.44%
Fully Paved

R. Out (W) 139.20
FL In (E) 139.35

Scale: 1" = 20' Horiz
1" = 5' Vert

1/2" = 1'00" Dia
1/4" = 1/2" Dia
1/8" = 1/4" Dia
1/16" = 1/8" Dia



FL OUT (M) 149.20
FL IN (E) 151.50
159.95

159.48

159.61

159.74

159.87

140.00

140.13

140.26

140.39

140.52

140.65

140.78

140.91

141.04

141.17

141.30

141.43

141.56

141.69

141.82

141.95

142.08

142.21

142.34

142.47

142.60

142.73

142.86

142.99

143.12



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