STORM SEWER PLANS FOR
S.W.S. NO. 259
WILLOWOOD
PROJECT NO.
468-76-245-81339-000-000-001

CITY OF WICHITA, KANSAS
MIKE LINDEBAK, CITY ENGINEER
AUGUST ,1984

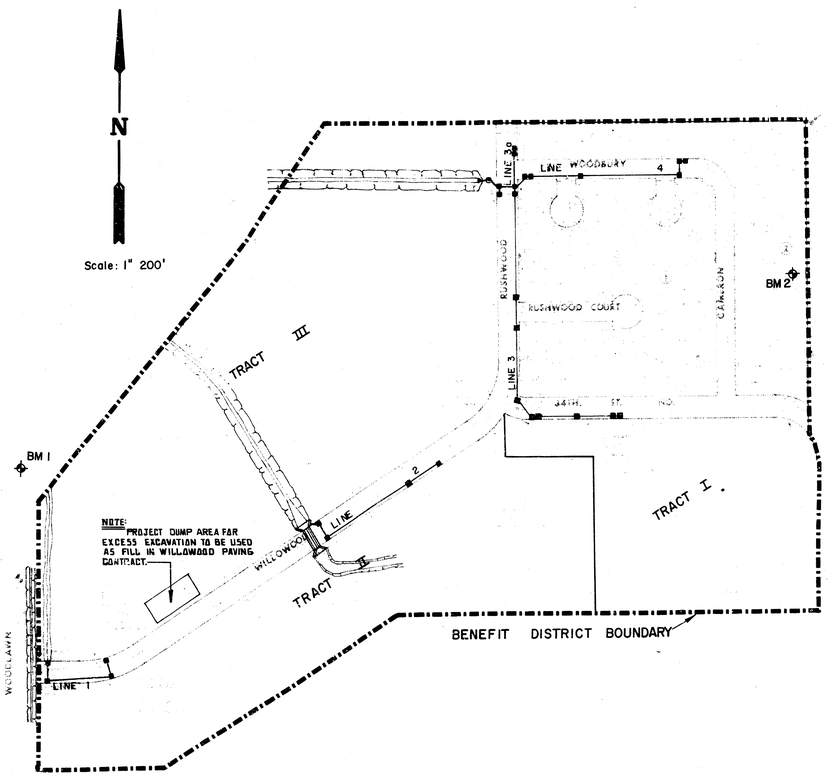
GENERAL NOTES

1. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATER LINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
5. TREES TO BE REMOVED ARE MARKED ⊗. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED SHALL BE SAVED.
6. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
7. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
8. COST OF EXCAVATION, HAULING, AND DUMPING OF EXCESS EXCAVATION TO BE SUBSIDARY TO PROJECT.
9. ALL OF TRACTS II AND III AS SHOWN ON PLAN SHEETS HAVE BEEN DEDICATED AS DRAINAGE EASEMENTS BY SEPARATE INSTRUMENTS.

BENCH MARKS

B.M. #1: WOODLAWN & 33RD STREET NORTH, CITY OF WICHITA BENCH MARK DISC. 4' NORTH OF SOUTH END OF EAST HUBGUARD TO CONCRETE BRIDGE 316' NORTH OF QUARTER SECTION CORNER.
ELEV. = 174.52

B.M. #2: RAILROAD SPIKE IN THE WEST SIDE OF THE WEST LEG OF HIGHLINE "H" POLE ON LOT 14, BLOCK 2, WILLOWOOD.
ELEV. = 184.78



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1 - DITCH
3	LINE 1
4	LINE 2
5-8	LINE 3 & LINE 3a
9	LINE 4
10-12	DITCH PLAN & PROFILE
13	REINFORED CONC. WINGWALLS
14	CURB INLET DETAIL
15	FINAL PLAT

AS BUILT PLANS 10/14/85 GREENE

FRANK BERTON NELSON ENGINEER 9130 KANSAS PROFESSIONAL ENGINEER

WILLOWOOD ADDITION	FBN
S.W.S. NO. 259	DLM
PROJECT NO: 468-76-245-81339-000-000-001	KHB
	1984

MID-KANSAS ENGINEERING CONSULTANTS PA
240 NORTH ROCK ROAD
SUITE 130
WICHITA KANSAS 67206 682-6561

SHEET 1 OF 15

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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001

DRAINAGE EASEMENT

N

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

Tract III

30' SAN. SEWER ESMT.

30'

Construct 4'-0" Ditch
See "Ditch Detail"

Sta. 5+74 Line 1
Install 24" Std. End Section

Install 350 S.Y.
Light Stone Rip-Rap

33' R/W

WILLOWOOD

Install 30 S.Y.
Light Stone Rip-Rap

M.H.

Existing San. Sewer

30' SANITARY SEWER ESMT.

1 2 3 4 5

9'

50' R/W

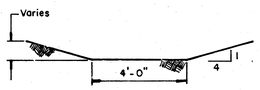
50' R/W

Sta. 5+99 Line 1
Const. Std. Type 1 A Curb Inlet
W=5'-4", L=6'-4"
TC=~~172.48~~ 172.57
St. Sta. 0+78.20 (Willowood)
Install 5 L.F. 24" RCP Stub N.W.
(Plug) IE = 166.38

℄ WOODLAWN

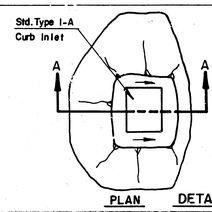
AS BUILT PLAN
10-14-85
GLEENG

DITCH DETAIL

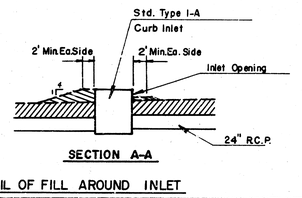


NOTE: Contractor shall be responsible for seeding and mulching of ditches. Cost subsidiory to Project.

PLAN LINE 1 - DITCH



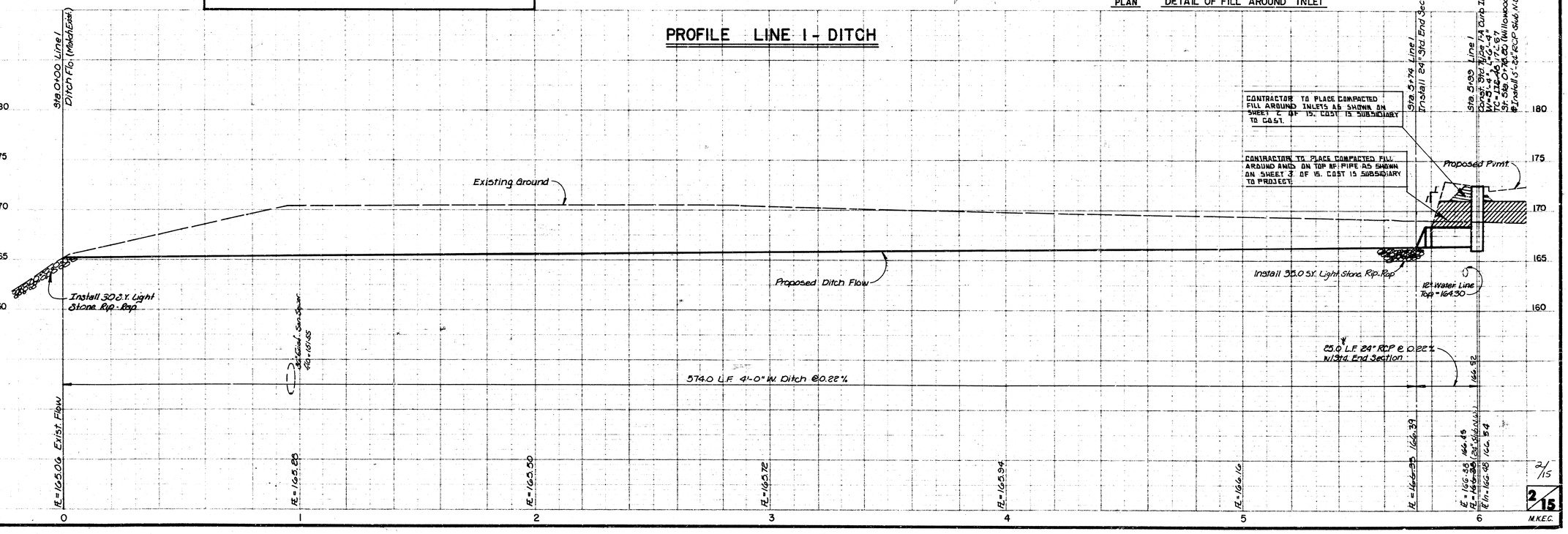
PLAN



SECTION A-A

DETAIL OF FILL AROUND INLET

PROFILE LINE 1 - DITCH



2/15

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WILLOWOOD ADDITION
SWS. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001

Tract III

Sta. 5+99 Line I
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4" TC=~~172.48~~ 172.57
St. Sta. 0+78.2 (Willowood)
Install 5 L.F. 24" RCP Stub N.W. (Plug)

Sta. 8+89 Line I
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4" TC=172.58
St. Sta. 2+75 (Willowood)

Sta. 6+43 Line I
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4" TC=~~172.48~~ 172.61
St. Sta. 0+78.2 (Willowood)

Sta. 8+45 Line I
Const. Std. Type I A Curb Inlet
W=5'-4", L=6'-4"
TC=172.58 St. Sta. 2+75

WOODLAWN
CM
Exist. San. Sewer
28.2'
24" RCP
Exist. 12" Water Main
33' R/W
315.68' R.
330.68' R.
348.68' R.
366.68' R.
381.68' R.
37'-0" B-B
WILLOWOOD

PLAN LINE I

Tract II

5' (MIN.)
1:4
30"
DETAIL OF FILL OVER PIPES

PROFILE LINE I

Sta. 5+99 Line I
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4"
TC=166.62
St. Sta. 0+78.2 (Willowood)
Install 24" Stub N.W. (Plug)

Sta. 6+43 Line I
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4"
TC=166.68
St. Sta. 0+78.2 (Willowood)

Sta. 8+45 Line I
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4"
TC=172.58
St. Sta. 2+75 (Willowood)

Sta. 8+89 Line I
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4"
TC=172.58
St. Sta. 2+75 (Willowood)

Contractor To Place Compacted Fill Around Inlets As Shown On Sheet 2 Of 15. Cost Is Subsidiary To Project.

Proposed Pavement Willowood

Existing Ground

Proposed top of curb

Contractor To Place Compacted Fill Around And On Top Of Pipe As Shown On This Sheet. Cost Subsidiary To Project.

Proposed Pavement

Compacted Fill

12" Water Line Top = 165.00

12" Water Line Top = 165.9

45.9
440 L.F. 24" RCP @ 0.22%

202 L.F. 24" RCP @ 0.22%

44.9
440 L.F. 24" RCP @ 0.22%

FL Out = 164.38 (24" Stub N.W.) 166.54
FL In = 164.48 166.62

FL Out = 164.58 166.68
FL In = 164.68 166.78

FL = 166.81

FL = 167.05

FL Out = 167.15
FL In = 167.25

FL Out = 167.36 167.36

180
175
170
165
160

6 7 8 9

3/15

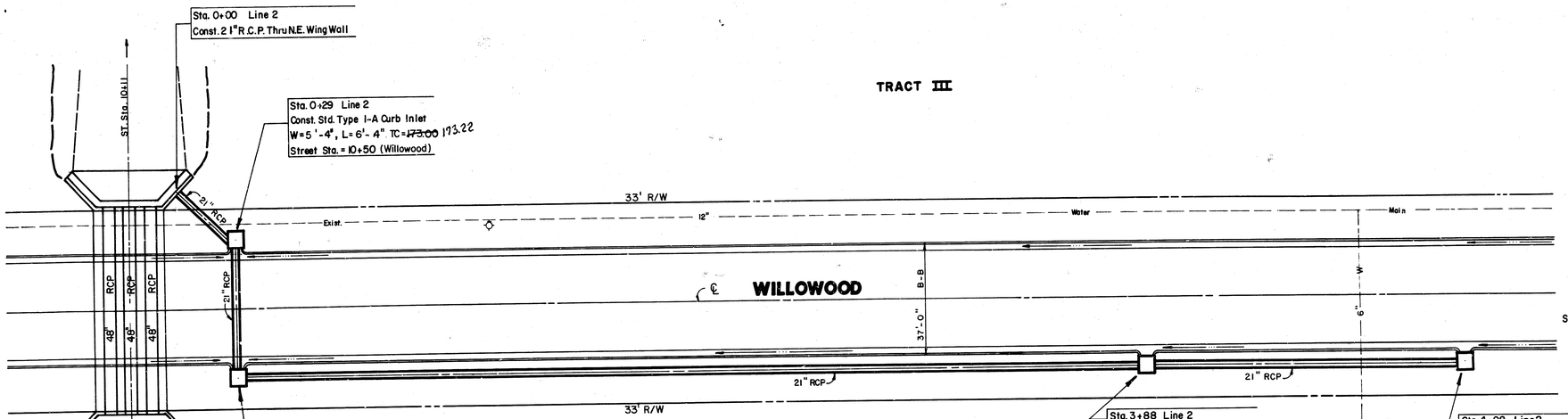
M.K.E.C.

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

AS BUILT PLAN
10/14/85
GREENE

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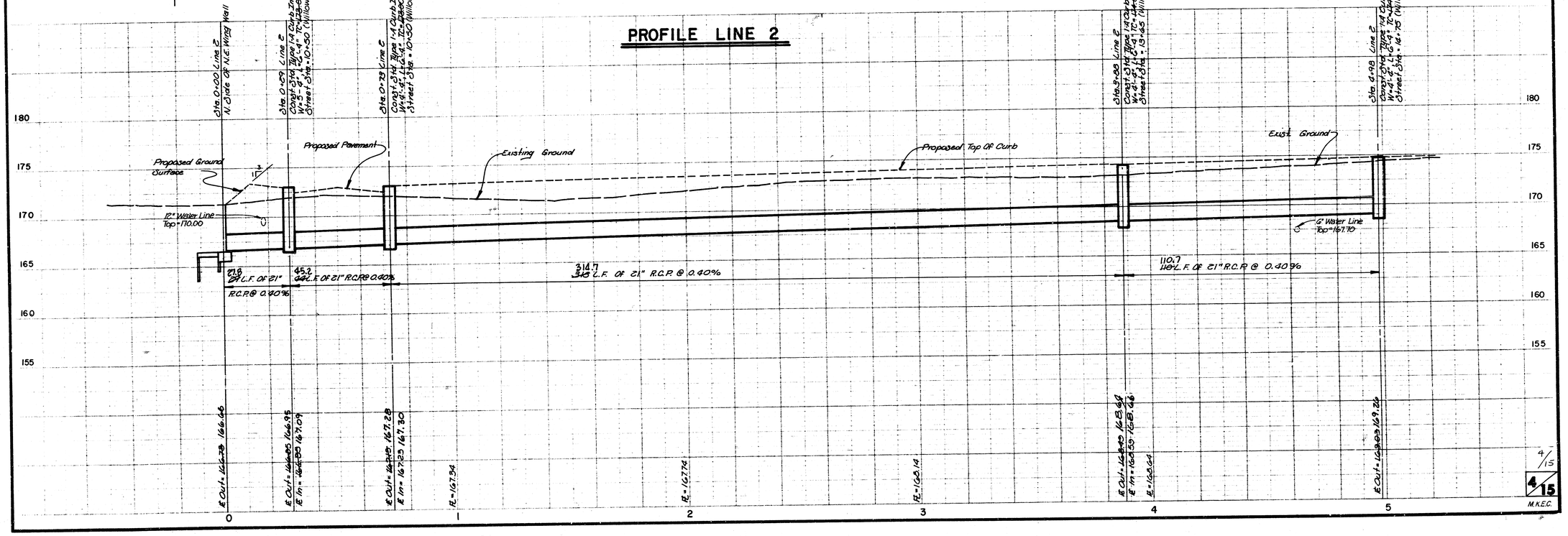
WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001



As Built Plan
10/14/85
Greene

PLAN LINE 2

PROFILE LINE 2

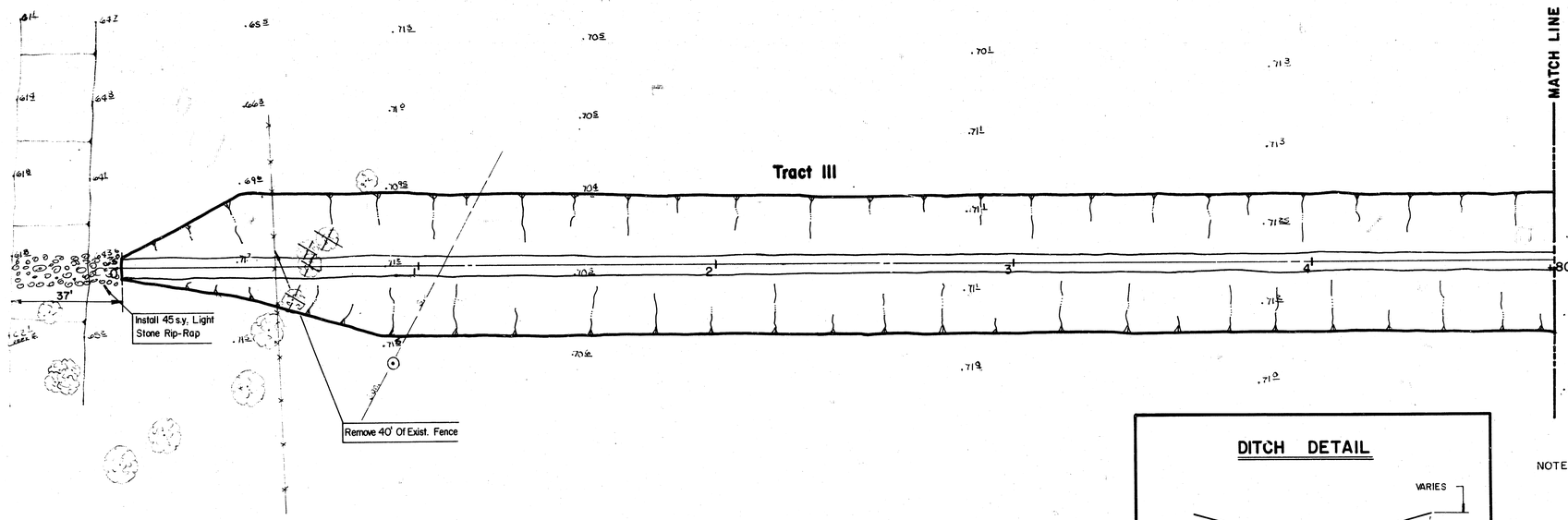


4/15

M.K.E.C.

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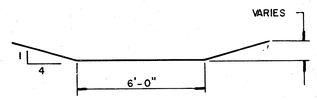
WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001



N

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

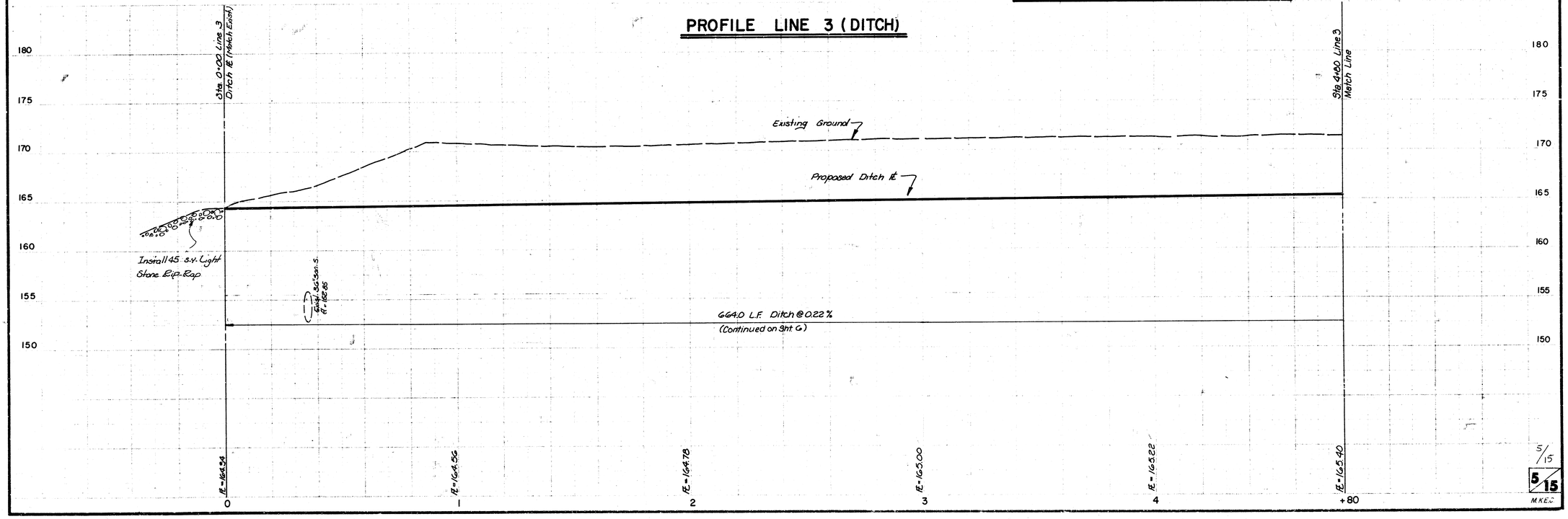
DITCH DETAIL



NOTE: Contractor shall be responsible for seeding and mulching of ditches. Cost subsidiary to project.

PLAN LINE 3 (DITCH)

PROFILE LINE 3 (DITCH)



5/15
5/15
MKEC

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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001

N

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

MATCH LINE

Tract III

Install 5 L.F. 18" RCP
Stub N. Plug FL = 167.22

Sta. 6+85 Line 3
Const. Special Curb Inlet
W=7'-4", L=7'-4"
Top=~~172.5~~ 172.67
See Sheet 14 Of 15

Sta. 6+64 Line 3
Install 48" Std. End Section
& 500 SY. Light Stone Rip-Rap

Sta. 7+27 Line 3
Const. Std. Type I-A Curb Inlet
W=~~6'-4"~~ 7'-4"
TC=~~173.25~~ St. Sta. 6+26.16 173.16
See Sh. 14 Of 15

Install 26.8 L.F. 15" RCP and
Const. Std. Type I-A Curb Inlet
W= 4'-4", L=6'-4"
Top=173.45 St. Sta. 6+00
USFL=~~168.78~~ 168.01 DSFL=~~168.60~~ 168.93

Future Inlet Opening

37'-0" B-B
33'-0"
33'-0"
12" Water
52.20'
19.20'
48" RCP
8'
12"
36" RCP
Sewer
30' R
Water
RUSHWOOD
WOODBURY
LINE 3a
LINE 4
19.20'
30' R
48" RCP
Sanitary

Sta. 7+73 Line 3 = Sta. 0+00 Line 3a
Const. Std. Type I-A Curb Inlet
W=6'-4" ~~14'-4"~~ 7'-4"
TC=~~173.25~~ St. Sta. 6+26.16
173.44

Sta. 7+99.2 Line 3
Const. Std. Type I A Curb
Inlet, W=6'-4", L=6'-4"
TC=~~173.15~~ St. Sta. 6+00
173.56

PLAN LINE 3

N

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

WILLOWOOD ADDITION

BLK. 1
1
2
3
35

MATCH LINE
STA. 10+25

Sanitary
Sewer
36" RCP Line 3
RUSHWOOD
B-B
37'-0"
33'-0"
33'-0"
12"
Water

Tract III

AS BUILT PLAN
10/14/85
GREENE

PROFILE LINE 3

Sta. 4+80 Line 3
Match Line

Sta. 6+64 Line 3
Install 48" End Sections

Sta. 6+85 Line 3
Const. Std. Type I-A Curb Inlet
W=7'-4", L=7'-4"
Top=~~172.5~~ 172.67

Sta. 7+27 Line 3
Const. Std. Type I-A Curb Inlet
W=~~6'-4"~~ 7'-4"
TC=~~173.25~~ St. Sta. 6+26.16

Sta. 7+73 Line 3
=Sta. 0+00 Line 3a
Const. Std. Type I-A Curb Inlet
W=6'-4" ~~14'-4"~~ 7'-4"
TC=~~173.25~~ St. Sta. 6+26.16

Sta. 7+99.2 Line 3
Const. Std. Type I-A Curb Inlet
W=6'-4", L=6'-4"
TC=~~173.15~~ St. Sta. 6+00
173.56

Sta. 10+25 Line 3
Match Line

180
175
170
165
160
155

Existing Grade
Proposed Ditch FL
Proposed Top of Curb
Existing Grade
Proposed Pvmt. (Woodbury)
Top Water Line ()
164.70
Install 50 SY.
Light Stone Rip-Rap

21.8
21.8 L.F. OF 48" R.C.P.
@ 0.22% With Std.
48" End Section
@ 0.22%

(Cont. from Sht. 5) 664.0 L.F. Ditch @ 0.22%

~~38.9~~ 39
~~42~~ L.F. OF 48" R.C.P.
@ 0.22%

~~48.7~~ 49
48 L.F. OF 48" R.C.P. @
0.22%

~~162.36~~ 162.33
226.8 L.F. of 36"
RCP @ 0.22%

~~296.2~~ 296.1 L.F. of 36" RCP @ 0.22%
(Continued on Sht. 7)

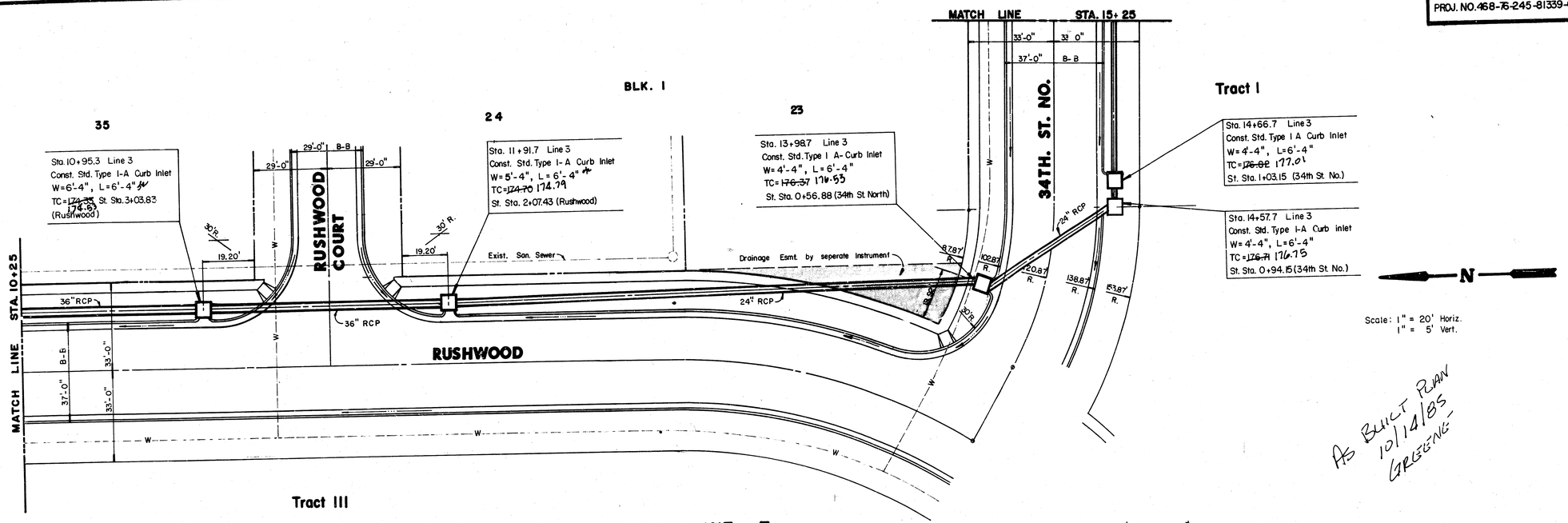
FE = 163.40
FE = 163.44
FE = 163.66
FE = 163.80
FE Out = ~~164.05~~ 165.86
FE In = ~~163.85~~ 165.96
FE In = ~~163.80~~ (18" RCP Stub N)
167.75
FE Out = ~~164.04~~ 165.93
FE In = ~~163.84~~ 165.93 (48" RCP)
FE In = ~~163.80~~ 168.63 (15" RCP)
FE Out = ~~164.34~~ 166.25
FE In = ~~164.14~~ 166.33 (36" RCP)
FE In = ~~163.95~~ (24" RCP) Const.
FE In = ~~163.80~~ (18" RCP) Line 3a
167.95
FE Out = ~~164.34~~ 166.40
FE In = ~~164.30~~ 166.49
FE = 166.72
FE = 166.94
FE = 167.00

+80
5
6
7
8
9
10

6/15

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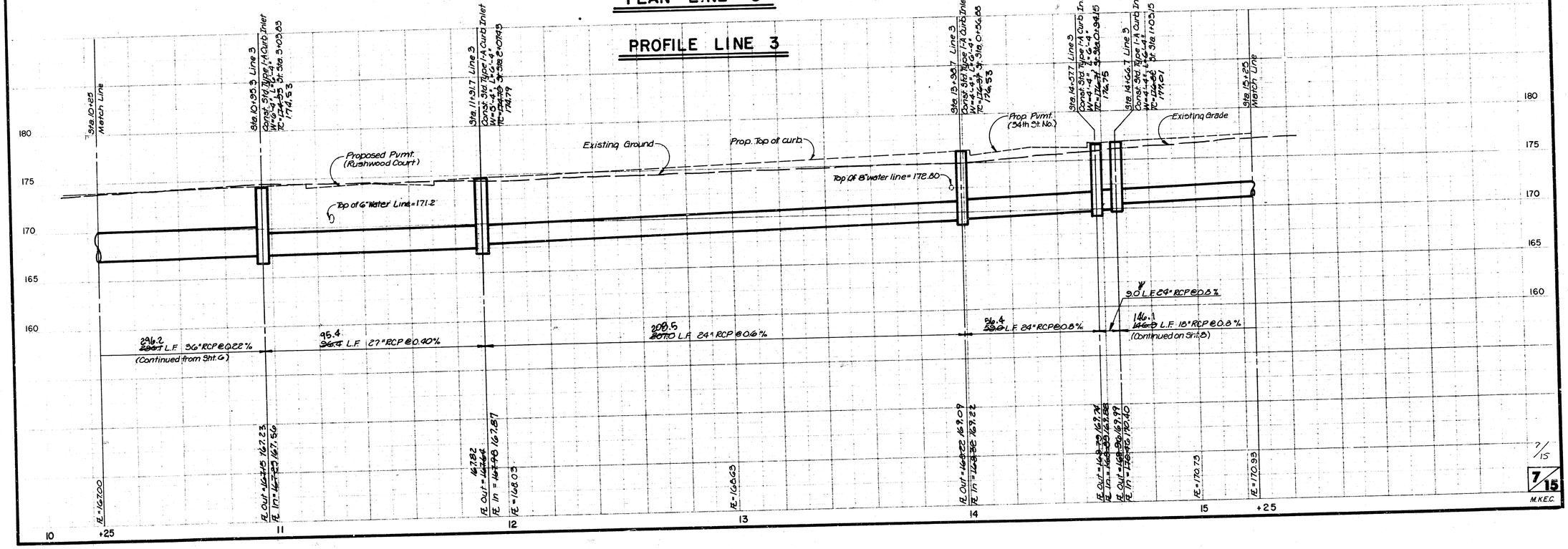
WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001



As Built Plan
10/14/85
GREENE

PLAN LINE 3

PROFILE LINE 3



7/15

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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001

BLK. 1

22 | 21 | 20

STA. 15+25

MATCH LINE

34TH. STREET NORTH

W W W

B-B 37'-0" 33'-0"

18" RCP 18" RCP 15" RCP

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

N

Sta. 16+13.6 Line 3
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4"
TC=~~178.50~~ 178.65 St. Sta. 2+50

Sta. 17+37.1 Line 3
Const. Std. Typ I-A Curb Inlet
W=4'-4", L=6'-4"
TC=~~179.97~~ 180.12 St. Sta. 3+73.49

Sta. 17+45.9 Line 3
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4"
Install 9.0 L.F. 15" RCP USFL=~~172.93~~ 172.78
TC=~~180.44~~ 180.24 DSFL=~~172.83~~ 172.73
St. Sta. 3+82.33

PLAN LINE 3

Tract I

Sta. 0+00 Line 3a = Sta. 7+73 Line 3 =
Sta. 0+00 Line 4
Const. Std. Type I-A Curb Inlet
W=6'-4", L=7'-4"
TC=~~173.25~~ 173.44
St. Sta. 6+26.16 (Rushwood)

Tract III

LINE 3

RUSHWOOD

W W W

B-B 37'-0" 33'-0"

18" RCP LINE 3a

LINE 3

30R 30R

Exist. San. Sewer

LINE 4

LOT 1 BLK 1

19.20' 29'-0" 29'-0" 19.20'

WOODBURY

LOT 1 BLK 2

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

N

Sta. 0+96.4 Line 3a
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4"
TC=~~173.62~~ 173.78
St. Sta. 7+22.56 (Rushwood)

Sta. 1+05.4 Line 3a
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4" 168.15
Install 9.0 L.F. 15" RCP USFL=~~168.32~~
TC=~~173.67~~ 173.90 DSFL=~~168.29~~ 168.09
St. Sta. 7+31.56 (Rushwood)

PLAN LINE 3a

PROFILE LINE 3

Sta. 15+25 Match Line
Sta. 16+13.6 Line 3 Const. Std. Type I-A Curb Inlet W=4'-4", L=6'-4" TC=~~178.50~~ 178.65 St. Sta. 2+50
Sta. 17+37.1 Line 3 Const. Std. Type I-A Curb Inlet W=4'-4", L=6'-4" TC=~~179.97~~ 180.12 St. Sta. 3+73.49

Proposed top of curb

Exist. Ground

185 180 175 170 165

~~146.0~~ 146.1 L.F. 18" RCP @ 0.6 %
(Continued from Sht. 7)

~~153.5~~ 153.9 L.F. 18" RCP @ 0.6%

FE = 170.95

FE = 171.53

FE Out = ~~171.64~~ 171.64
FE In = ~~171.74~~ 171.67

FE = 172.43

FE Out = ~~172.73~~ 172.66
FE In = ~~172.83~~ 172.76 (15" RCP)

15 16 17

PROFILE LINE 3a

Sta. 0+00 Line 3a
Sta. 0+00 Line 3
Sta. 0+00 Line 4
Const. Std. Type I-A Curb Inlet W=6'-4", L=7'-4" TC=~~173.25~~ 173.44 St. Sta. 6+26.16 (Rushwood)

Sta. 0+96.4 Line 3a Const. Std. Type I-A Curb Inlet W=4'-4", L=6'-4" TC=~~173.62~~ 173.78 St. Sta. 7+22.56 (Rushwood)

Exist. Ground

Prop. Pumt. (Woodbury)

Top Of 8" water line Elev. = 170.48

185 180 175 170 165

FE Out = 166.24 (48" RCP Line 3)
FE In = 166.34 (36" RCP Line 3)
FE In = 167.20 (18" RCP Line 3a)

~~32.4~~ 32.9 L.F. 18" RCP @ 0.6%

FE Out = ~~167.87~~ 167.76 = 168.04
FE In = ~~168.22~~ (15" RCP)

0

As Built Plan
10/14/85
EUGENE

8/15

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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 466-76-245-8339-000-000-001

BLK. 2

RUSHWOOD LINE 3

LINE 3a

WOODBURY

WOODBURY CT.

20' Util. Esmt.

℄ 10' Util. Esmt.

Sewer

Sanitary

12" Water

24" RCP

15" RCP

21" RCP

Water

Drng. Esmt. by Seperate Instrument

Sta. 0+42 Line 4
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4", T.C.=~~174.18~~ 174.38
Street Sta.=0+52.2 (Woodbury)

Sta. 0+51 Line 4
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4", T.C.=~~174.20~~ 174.43
Street Sta.0+61.2 (Woodbury)

Sta. 0+00 Line 4 =
Sta. 0+00 Line 3a = Sta. 7+73 Line 3
Const. Std. Type I-A Curb Inlet
W=6'-4", L=6'-4", T.C.=~~173.25~~ 173.44
Street Sta.= 6+26.16 (Rushwood St. Sta.)

Sta. 2+13.5 Line 4
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4", T.C.=~~174.96~~ 175.11
Street Sta.= 2+23.7 (Woodbury)

Sta. 5+59.2 Line 4
Const. Std. Type I ACurb Inlet
W=4'-4", L=6'-4, T.C.=~~177.37~~ 177.42
St. Sta. 5+28.7 (Woodbury)

Sta. 5+68.2 Line 4
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4", T.C.=~~177.48~~ 177.50
Street Sta.=5+37.7 (Woodbury)
Install ~~9.0~~ L.F. 15" RCP 9.2 LF
USFL=~~170.77~~ 170.77 DSFL=170.73 170.38

Sta. 5+18.5 Line 4
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4", T.C.=~~177.37~~ 177.60
Street Sta.= 5+28.7 (Woodbury)

AS BUILT
12/14/95
GREENE

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

PLAN LINE 4

PROFILE LINE 4

Proposed Top Of Curb
Proposed Pvmt. (Woodbury Ct.)
Existing Ground
4" Water Line Bottom=171.10
Proposed Pvmt. (Woodbury Ct.)
Prop. Pvmt. (Woodbury)
4" Water Line Bottom=173.10
8" San. Sewer FL=161.28

~~49.7~~ 49.7 L.F. OF 24" R.C.P.@ 0.40%
~~142.0~~ 142.0 L.F. OF 24" R.C.P. @ 0.40%
9 L.F. OF 24" RCP @ 0.40%
~~304.3~~ 306.3 L.F. OF 24" R.C.P. @ 0.40%
~~37.3~~ 39.3 L.F. 21" R.C.P. @ 0.40%

185 180 175 170 165 160 155

0 1 2 3 4 5

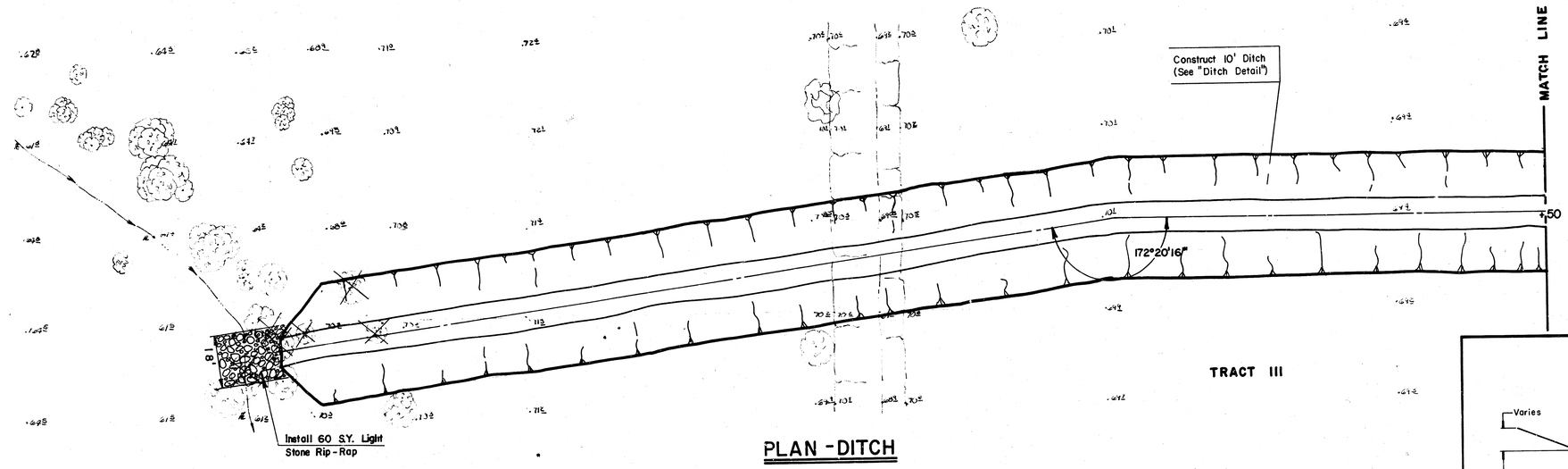
9/15

M.K.E.C.

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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-6133 9-000-000-001

TRACT III

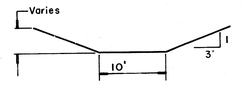


PLAN - DITCH

N

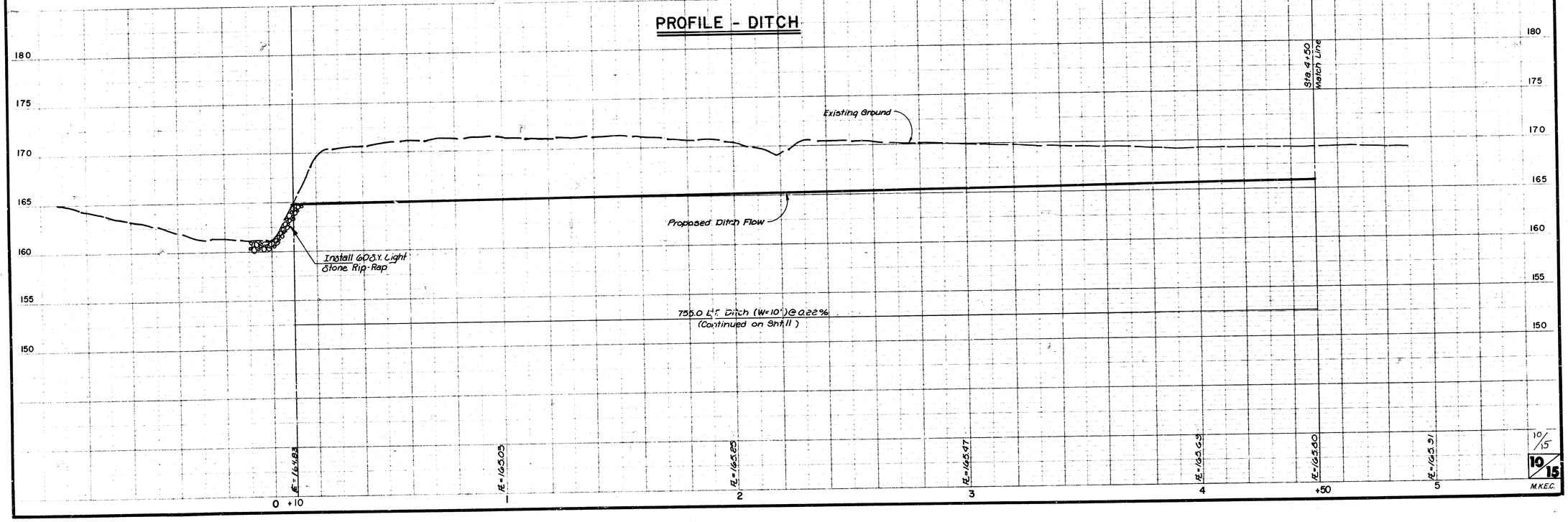
Scale: 1"= 20' Horiz.
1"= 5' Vert.

DITCH DETAIL



NOTE: Contractor is responsible for seeding and mulching of ditches. Cost is subsidiary to Project.

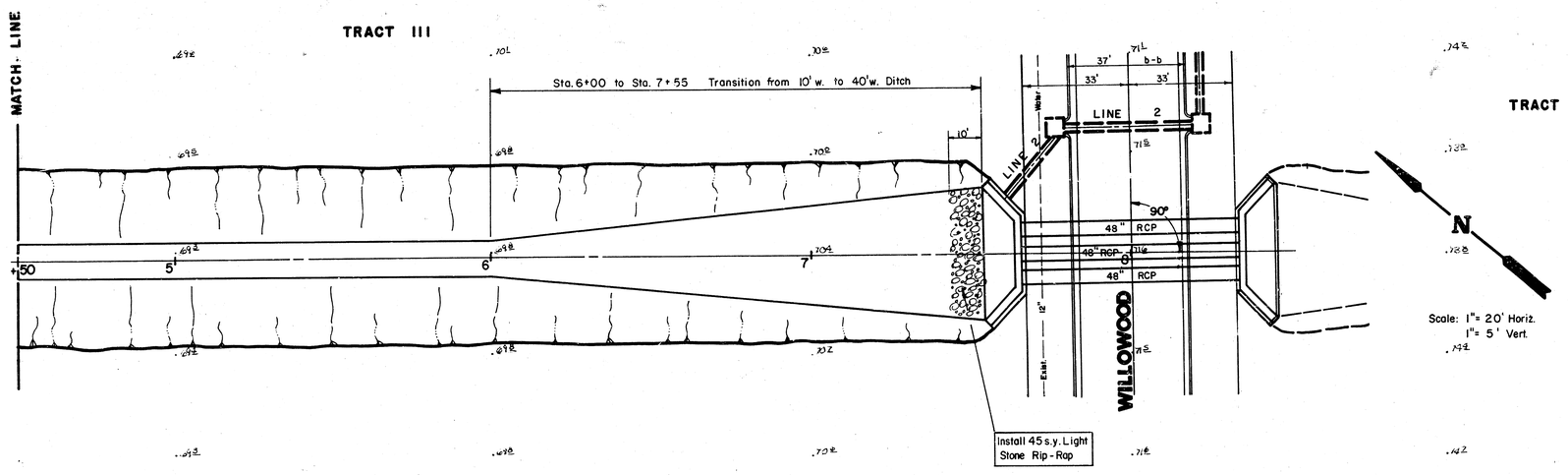
PROFILE - DITCH



10/15
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M.K.E.C.

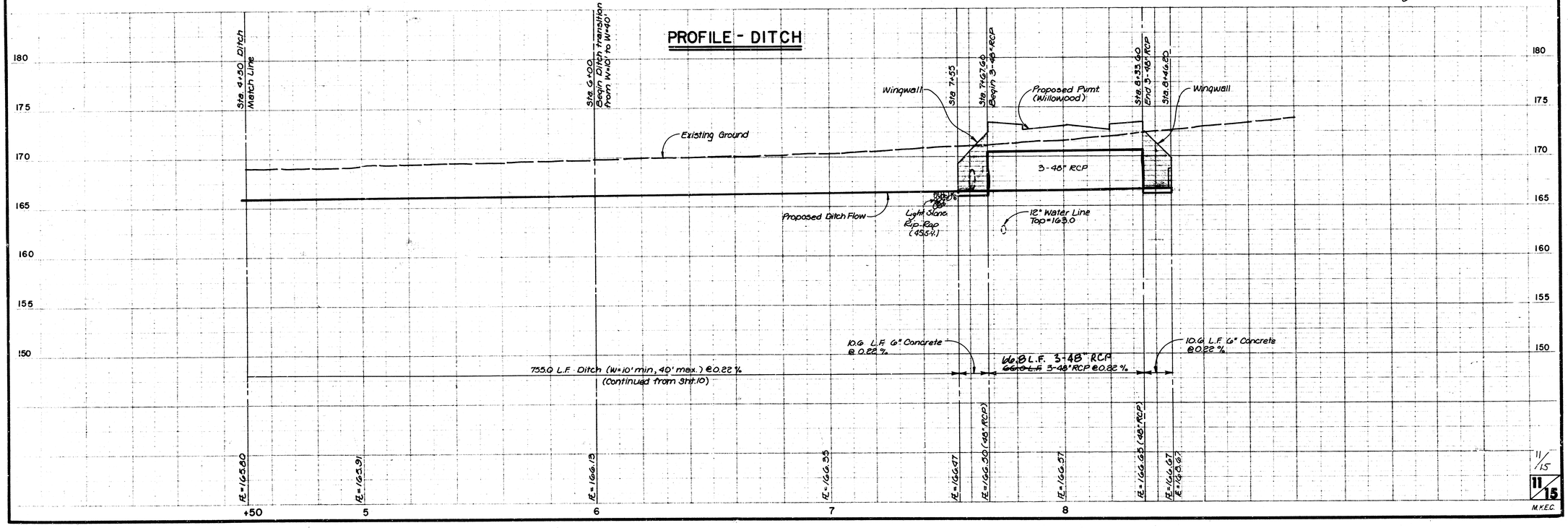
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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-8539-000-000-001



PLAN - DITCH

RD BUILT 10/14/85 GREENE



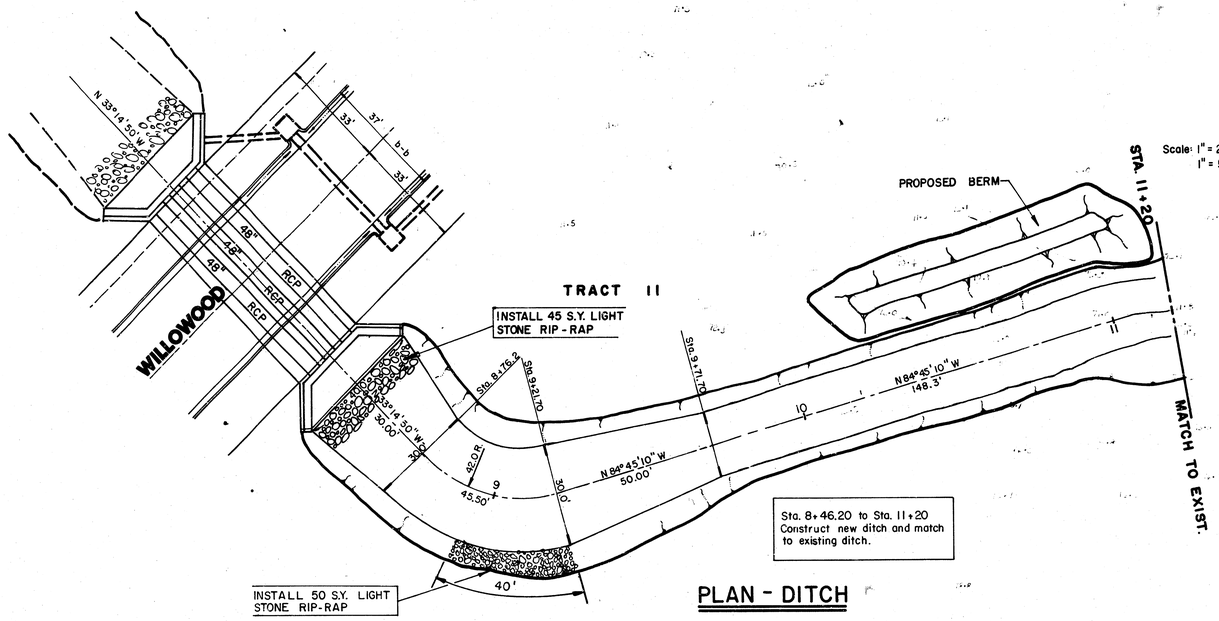
11/15

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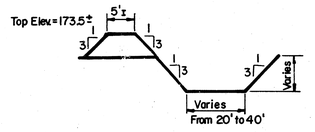
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WILLOWOOD ADDITION
S.W.S. NO. 259
PROJ. NO. 468-76-245-81339-000-000-001



PLAN - DITCH

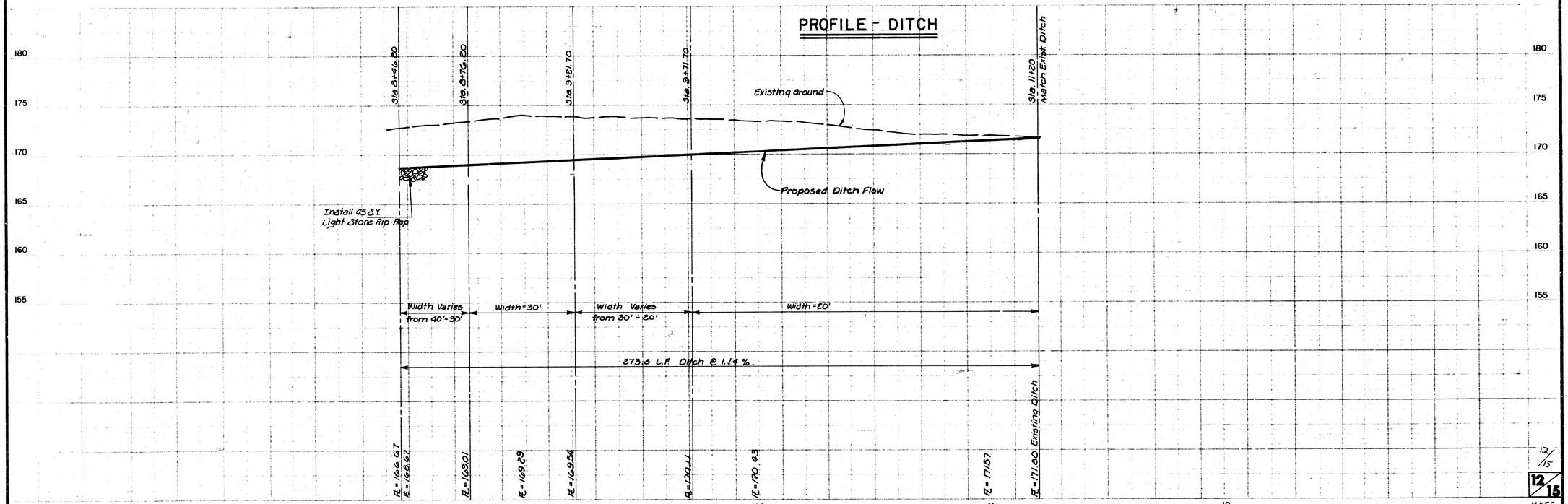
Scale: 1" = 20' Horiz.
1" = 5' Vert.



NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING & MULCHING OF BERM & DITCH. COST SUBSIDIARY TO PROJECT.

BERM & DITCH DETAIL

PROFILE - DITCH



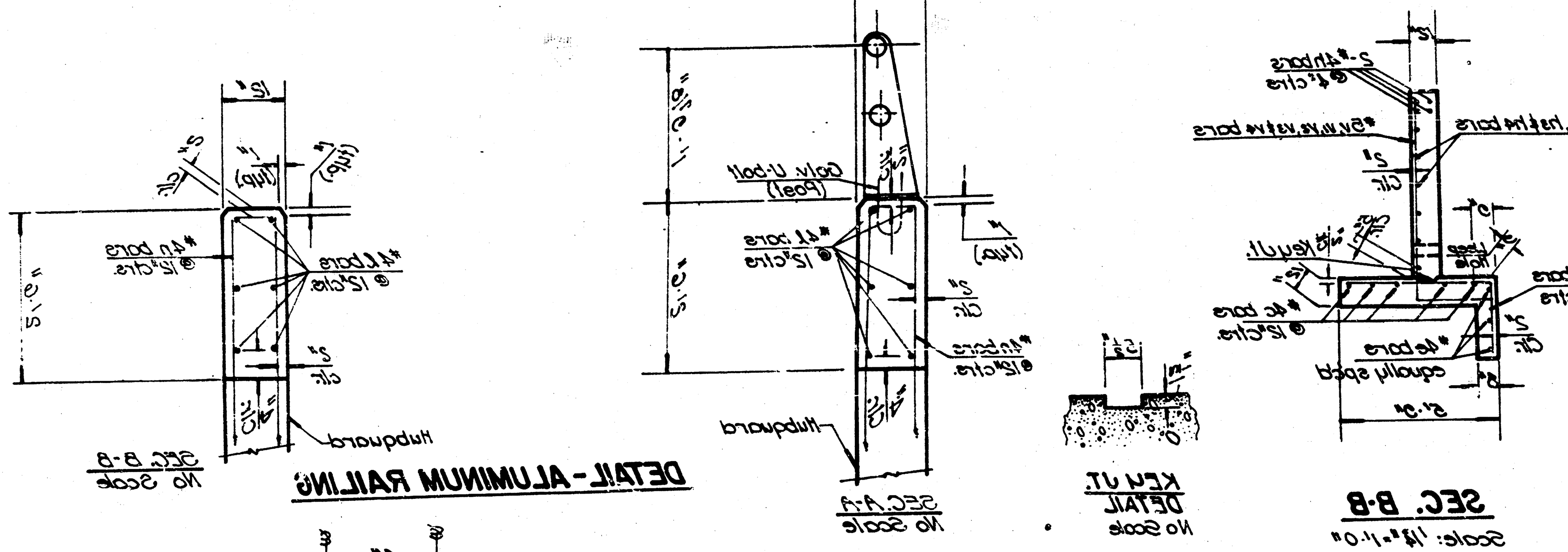
12/15

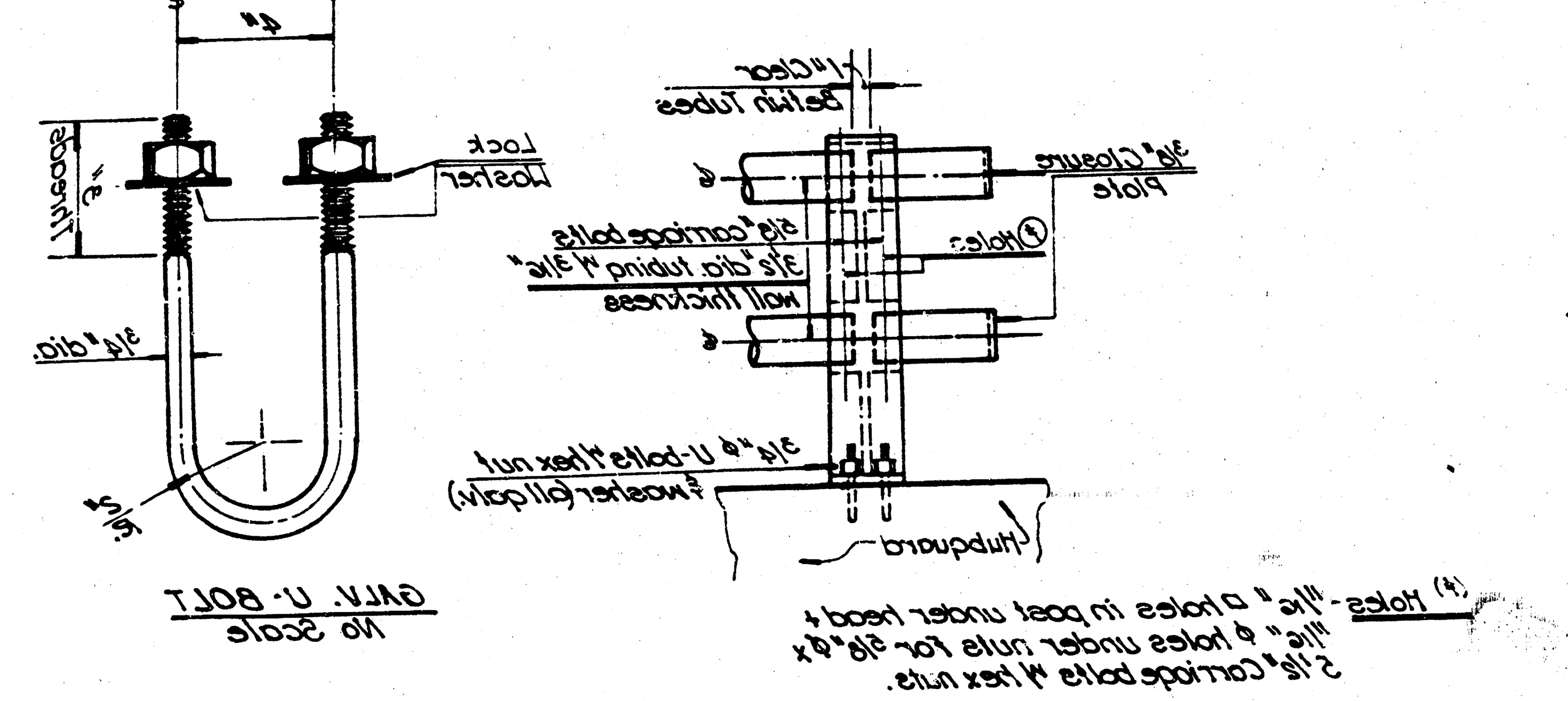
12/15

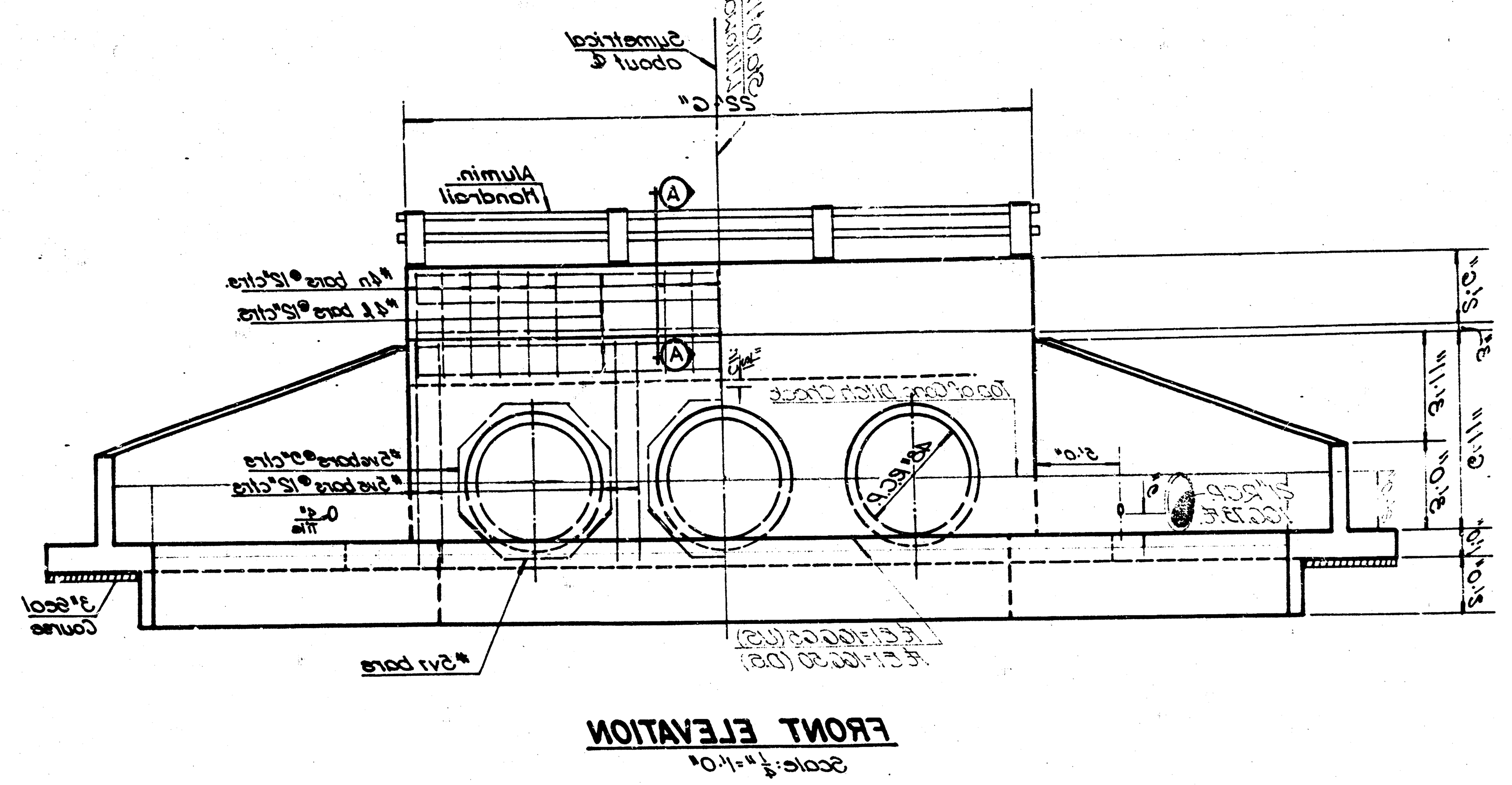
M.K.E.C.

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Note: ALUMINUM HANDRAIL - Aluminum Posts shall be Reynolds Aluminum Highway products Bridge Railing System No. 2R19A or equal.
Top and Bottom rails shall be 3 1/2" O.D. x 3/16" wall tube of 6063-T6 aluminum.
Aluminum Shims below conc. & post base may be used.
The space below post shall be thoroughly caulked w/ Alumilastic Compound or other approved material.







GENERAL NOTE

Class A Concrete shall be used throughout. Bevel all exposed edges with a 3/4" triangular molding unless otherwise noted. All dimensions relative to reinforcing steel are to center line of bar unless otherwise noted.

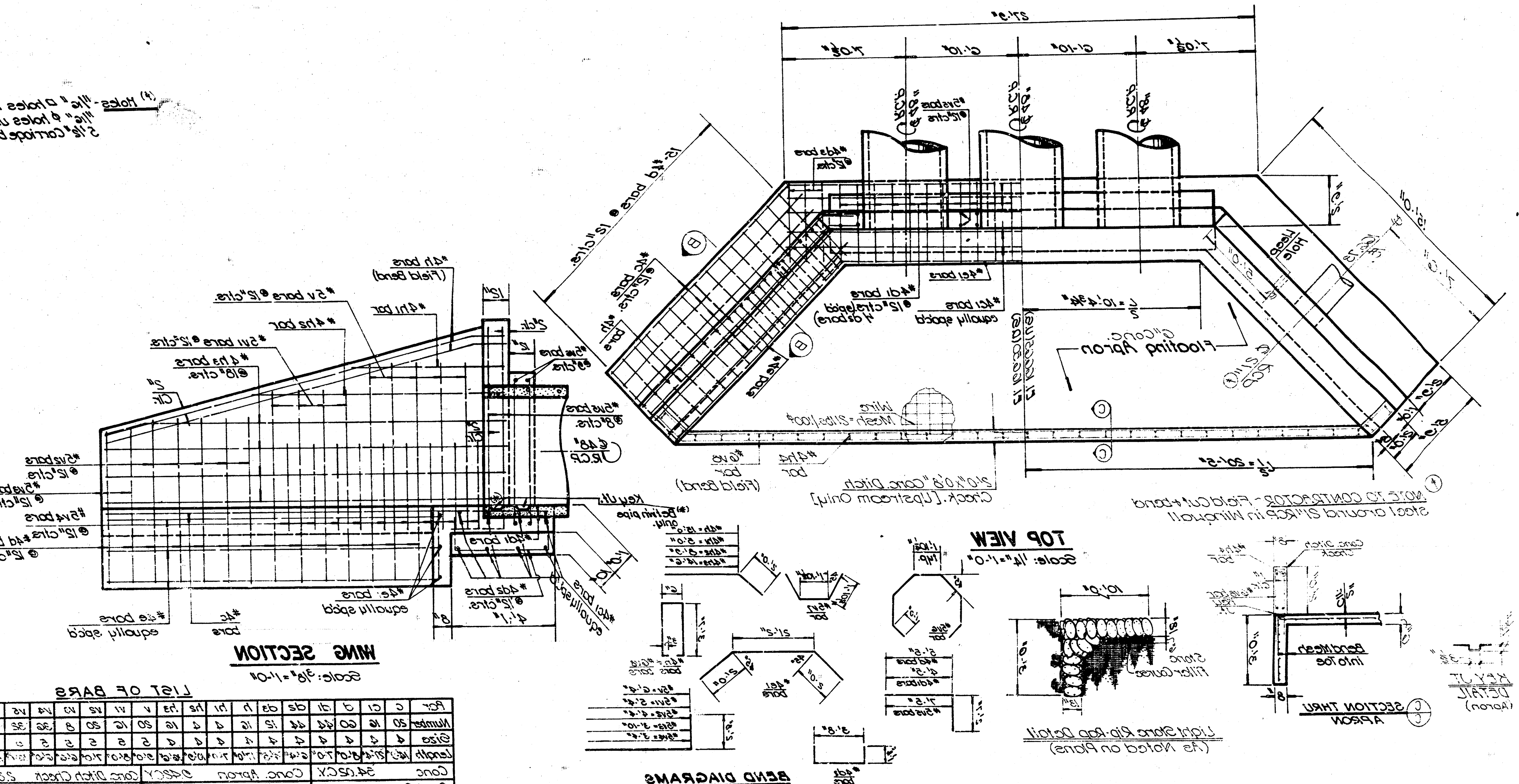
Seal Course, consisting of 3" of Class A Concrete, shall be constructed only where specified on the Plans or by the Engineer. No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.

Floating Apron shall be constructed only between downstream wings in locations subject to scour where specified on the Plans or by the Engineer.

Wire reinforcing mesh shall be electrically welded and shall be composed of No. W1.4 wire at 6" centers each way. Weight of reinforcing mesh shall be classified as pounds of reinforcing steel.

Payment for additional quantities resulting from including Seal Course and or Floating Apron as a change in the original plans shall be made at the Unit Price bid for the various items involved.

Coarse aggregate shall be deposited behind each weephole to occupy a space extending 15" in all directions above the weephole flowline. This work shall not be paid for directly but shall be considered a part of the excavation work.



LIST OF BARS

Bar	c	c1	d	d1	d2	d3	h	h1	h2	h3	v	v1	v2	v3	v4	v5	v6	v7	r	l	e	e1	h4	v8
Number	20	16	60	44	44	12	16	4	4	16	20	16	20	8	36	32	12	12	46	12	12	6	4	31
Size	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4	4	6
Length	[illegible]	21'-4"	8'-0"	7'-0"	6'-4"	[illegible]	11'-0"	7'-0"	10'-9"	16'-6"	5'-0"	8'-0"	7'-0"	6'-6"	6'-6"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25'-2"	24'-6"	8'-2"

Conc. 54.02 C.Y.	Conc. Apron 9.42 C.Y.	Conc. Ditch Check 2.23 C.Y.	
Seal Course 3.5 C.Y.	Reinf. Steel (lbs) 4150.15		

Design	Scol
Drawn by	Scol
Checked by	
Date	8-84
Job no.	

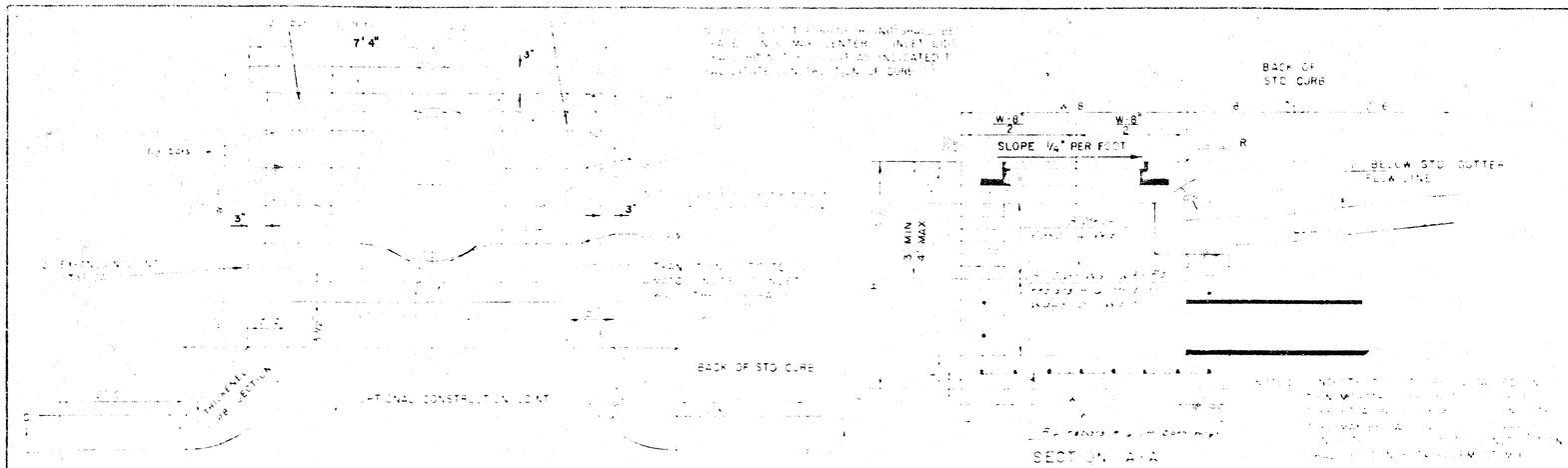
REINF. CONC. WINGWALLS
STA. 10+11-Willowood-in Willowood Addition.
SWS #259
Project No. 468-76-245-81339-000-000-001

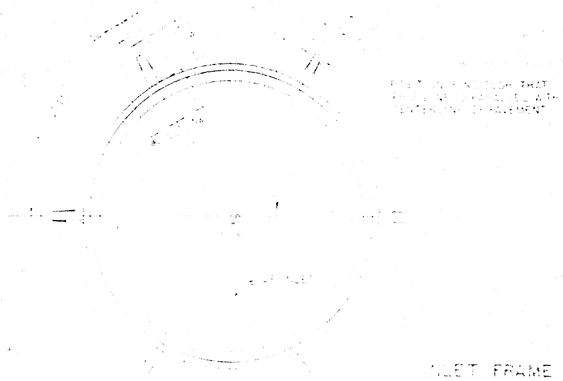
MID-KANSAS ENGINEERING CONSULTANTS PA
240 NORTH ROCK ROAD
SUITE 130
WICHITA, KANSAS 67206
682-6561

Sheet 13 of 15

13/15

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NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

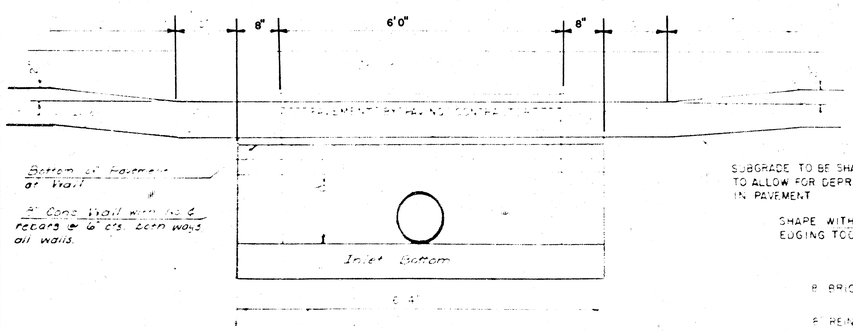
PLAN

STEEL SCHEDULE

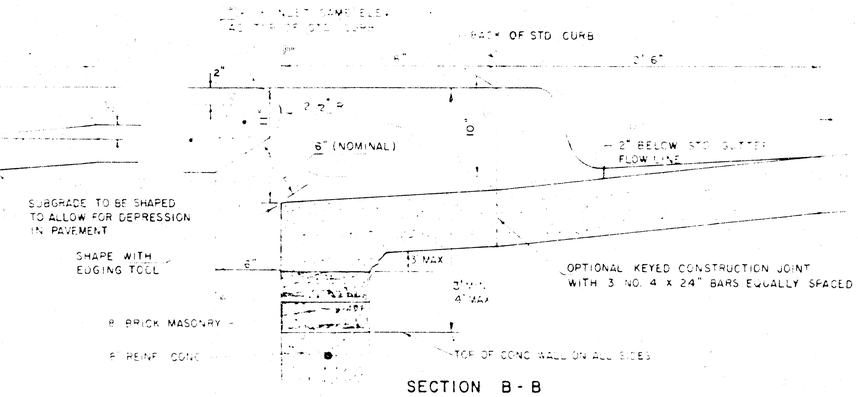
BAR NO.	SIZE	A	B	C	D	E	F	G	H	J	K	LENGTH
NUMBER	4	6										
A1	#4	5'-6"	11"									68"
A2	#4	7'-9"	8"	11"								88"
A3	#4	9'-9"	10"	11"								108"
A4	#4	11'-9"	2"	11"								128"
A5	#4	3'-9"	14"	11"								48"

BENDING DIAGRAM

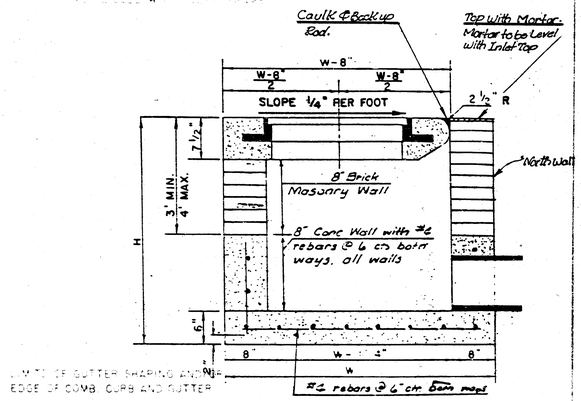
BAR NO.	SIZE	A	B	C	D	E	F	G	H	J	K	LENGTH
A4	#4	7'-4"	6'8"	7'4"	7'1/2"	48"	&	54"				0.92 ±



SECTION C-C



SECTION B-B



SECTION B-B

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5'0"

MARCH 1984

M/15

14/15

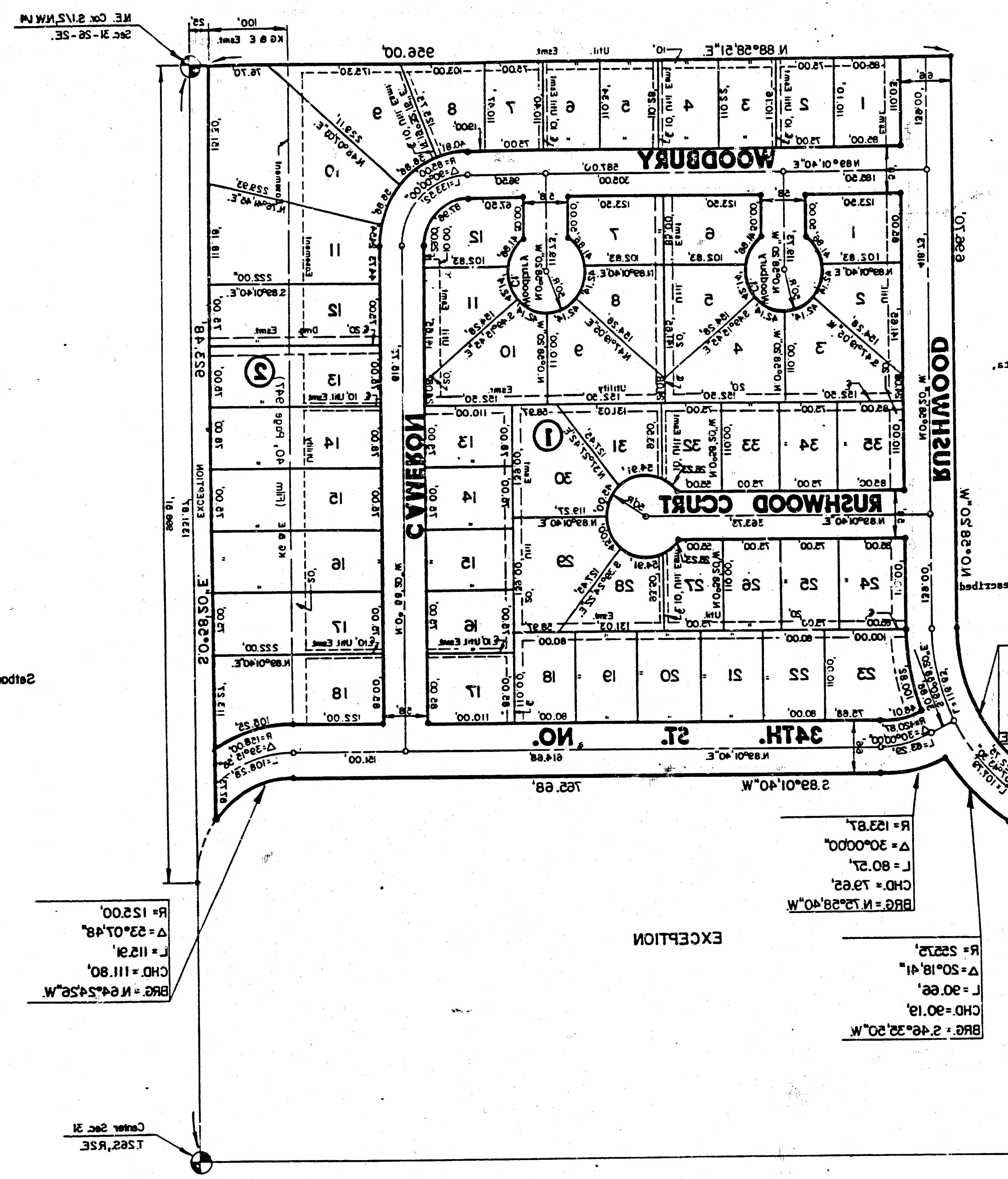
ORGINAL

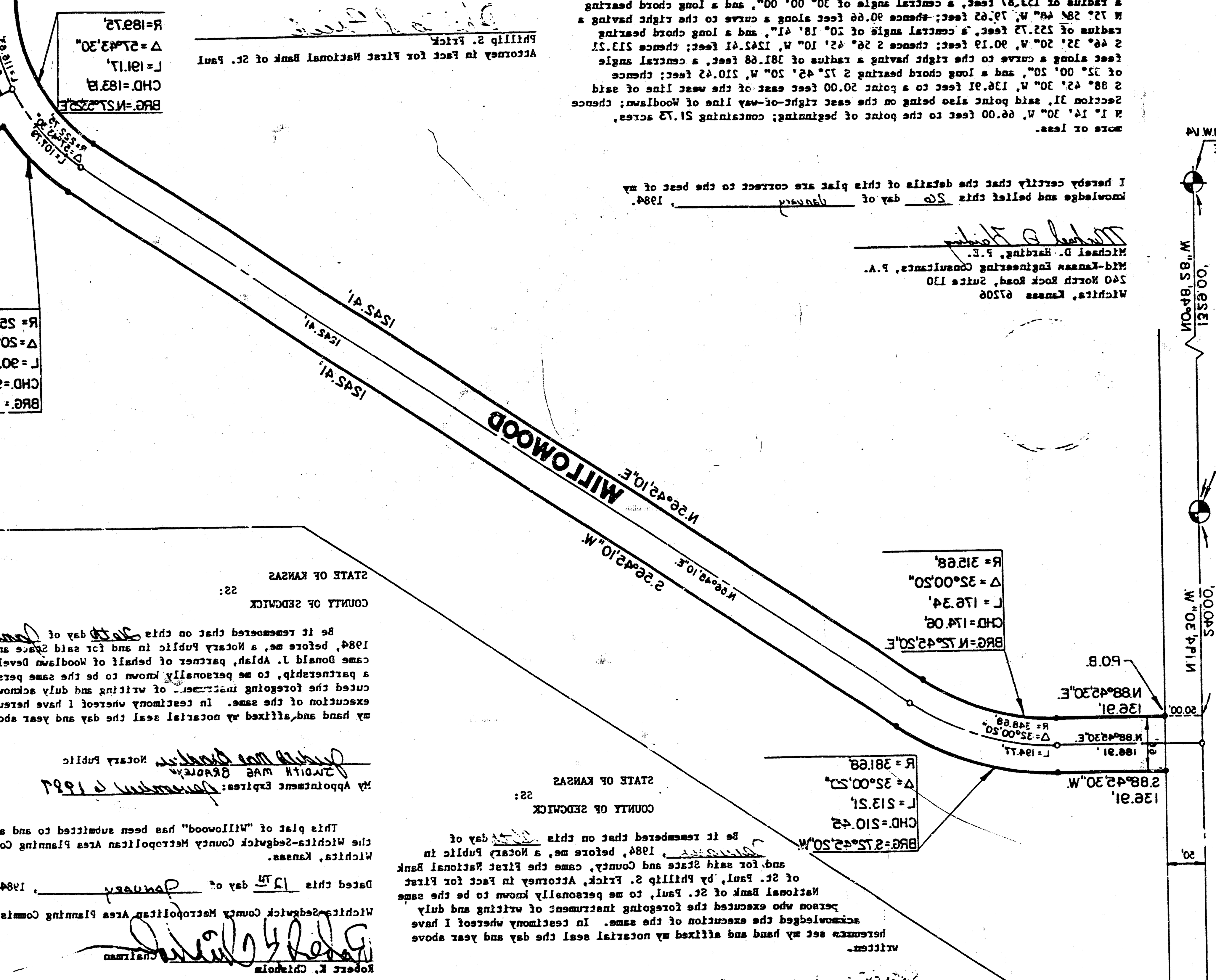
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FINAL PLAT OF

WILLOWOOD

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS





LEGEND

• = Iron

Setbacks as per C.U.P. (D.P.-113)

Scale: 1" = 100'

I, Michael D. Harding, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "Willowood", an addition to Wichita, Sedgwick County, Kansas, into lots, blocks and streets the same being accurately set forth in the accompanying plat and described as follows:

A tract of land in the west half of Section 31, Township 26 south, Range 2 east of the 6th P.M., more particularly described as follows:

Commencing at the west quarter corner of Section 31; thence S 1° 14' 30" E, 240.00 feet along the west line of said section; thence N 88° 45' 30" E, 50.00 feet to the east right-of-way line of Woodlawn for the point of beginning; thence N 88° 45' 30" E, 136.91 feet; thence 176.34 feet along a curve to the left having a radius of 315.68 feet, a central angle of 32° 00' 20", and a long chord bearing N 72° 45' 20" E, 174.06 feet; thence N 56° 45' 10" E, 1242.41 feet; thence 191.17 feet along a curve to the left having a radius of 189.75 feet, a central angle of 57° 43' 30", and a long chord bearing N 27° 53' 25" E, 183.19 feet; thence N 0° 58' 20" W, 696.70 feet to the north line of the south half of the northwest quarter of said Section 31; thence N 88° 58' 51" E, 956.00 feet to a point 25.00 feet west of the northeast corner of said south half; thence parallel to the east line of said south half bearing S 0° 58' 20" E, 923.48 feet; thence 115.91 feet along a curve to the left having a radius of 125.00 feet, a central angle of 53° 07' 48", and a long chord bearing N 64° 24' 26" W, 111.80 feet; thence S 89° 01' 40" W, 765.68 feet; thence 80.57 feet along a curve to the right having a radius of 153.87 feet, a central angle of 30° 00' 00", and a long chord bearing N 75° 58' 40" W, 79.65 feet; thence 90.66 feet along a curve to the right having a radius of 255.75 feet, a central angle of 20° 18' 41", and a long chord bearing S 46° 35' 50" W, 90.19 feet; thence S 56° 45' 10" W, 1242.41 feet; thence 213.21 feet along a curve to the right having a radius of 381.68 feet, a central angle of 32° 00' 20", and a long chord bearing S 72° 45' 20" W, 210.45 feet; thence S 88° 45' 30" W, 136.91 feet to a point 50.00 feet east of the west line of said Section 31, said point also being on the east right-of-way line of Woodlawn; thence N 1° 14' 30" W, 66.00 feet to the point of beginning; containing 21.73 acres, more or less.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 26 day of January, 1984.

Michael D. Harding, P.E.
Mid-Kansas Engineering Consultants, P.A.
240 North Rock Road, Suite 130
Wichita, Kansas 67206

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineer's Certificate have caused the same to be surveyed and platted into lots, blocks and streets, the same to be known as "Willowood", an addition to Wichita, Sedgwick County, Kansas. Easements for drainage and the construction and maintenance of public utilities, as indicated on the accompanying plat, are hereby granted. The streets are hereby dedicated to and for the use of the public. Building setbacks shall be in accordance with the assoc. Community Unit Plan (DP-113) on file in the Wichita, Sedgwick County Metropolitan Area Planning Department office.

Woodlawn Development Company
a partnership

Donald J. Ablah
partner

We, the First National Bank of St. Paul, mortgagees on the above described property, do hereby consent to the plat of "Willowood".

The First National Bank of St. Paul

Phillip S. Frick
Attorney in Fact for First National Bank of St. Paul

STATE OF KANSAS
SS:
COUNTY OF SEDGWICK

Be it remembered that on this 26th day of January, 1984, before me, a Notary Public in and for said State and County, came Donald J. Ablah, partner of behalf of Woodlawn Development Company, a partnership, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Judith Mae Bradley, Notary Public
My Appointment Expires: January 6 1987

STATE OF KANSAS
SS:
COUNTY OF SEDGWICK

Be it remembered that on this ___ day of ___, 1984, before me, a Notary Public in and for said State and County, came the First National Bank of St. Paul, by Phillip S. Frick, Attorney in Fact for First National Bank of St. Paul, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Judith Mae Bradley, Notary Public
My Appointment Expires: January 6, 1987

This plat of "Willowood" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 12th day of January, 1984.

Wichita-Sedgwick County Metropolitan Area Planning Commission

Robert K. Chisholm, Chairman

Robert A. Lakin, Secretary

This plat approved and all dedications shown herein, if any, accepted by the Board of City Commissioners of the City of Wichita, Kansas, this 21st day of February, 1984.

Margalee Wright, Mayor

Donald C. Olsick, City Clerk

This plat approved and all dedications shown hereon, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas, this 8th day of March, 1984.

Jack Spratt, Chairman

Donald E. Cragg, Commissioner

Tom Scott, Commissioner

Attest: Dorothy K. White, County Clerk

STATE OF KANSAS
SS:
COUNTY OF SEDGWICK

This is to certify that this instrument was filed for record in the Register of Deeds Office at 2:00 P.M. on the 8TH day of MARCH, 1984.

Bette F. McCart, Register of Deeds

Pat Kettler, Deputy

Entered on transfer record this 8th day of MARCH, 1984.

Dorothy K. White, County Clerk

6 79051

14 9 3 5

15

Restrictive Covenant F 643 Pg 440 5-3 3-31

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