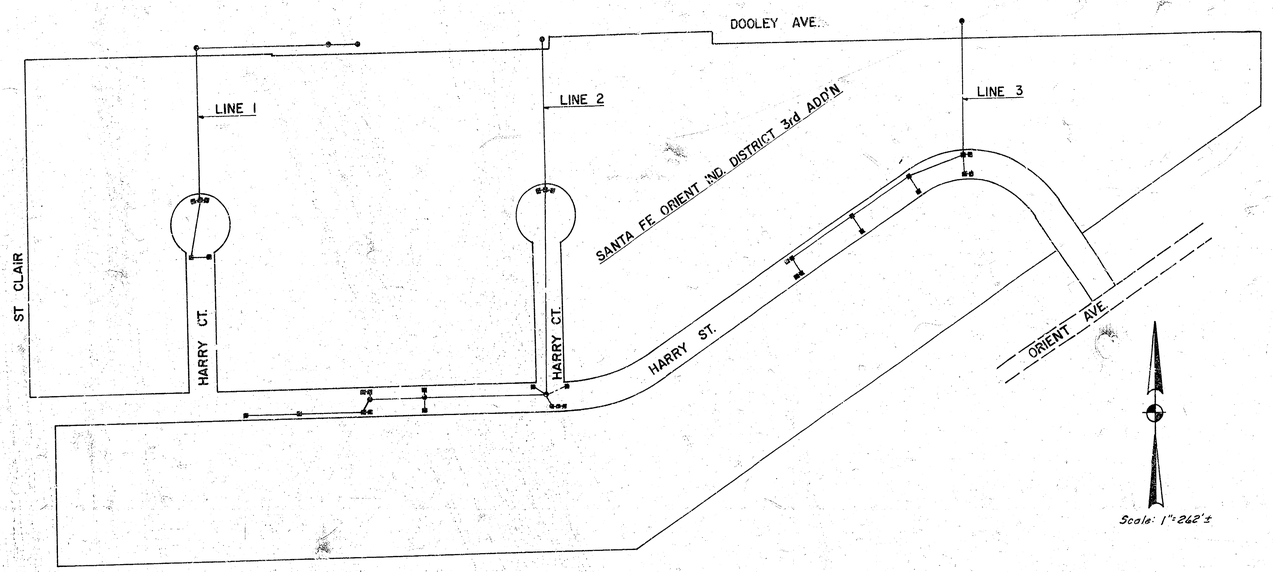
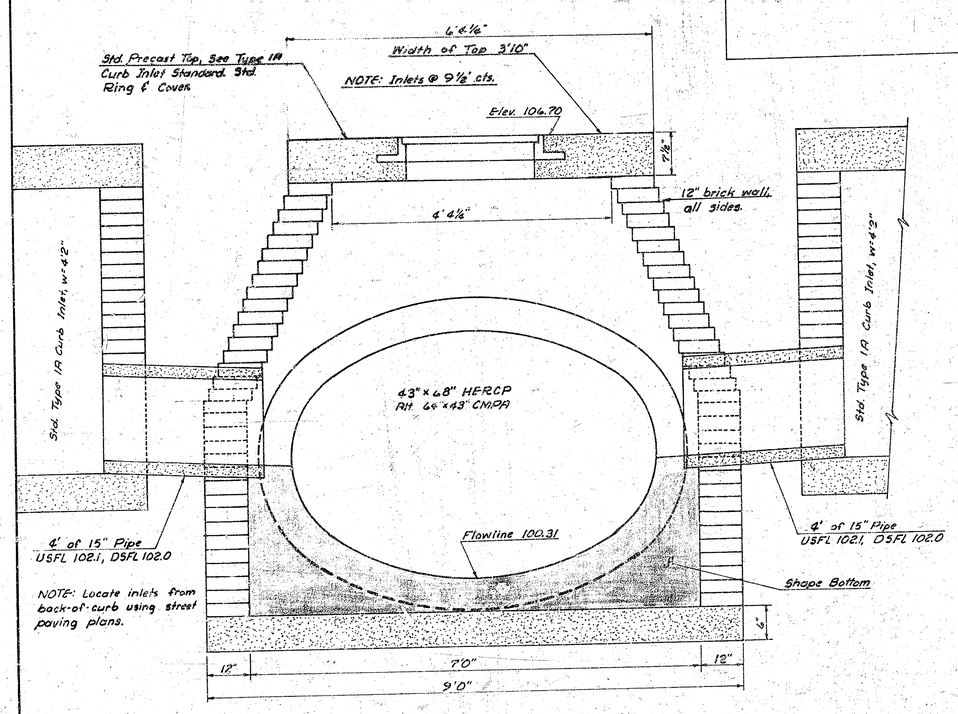
DRAINAGE IN CONNECTION WITH HARRY ST. from E.L. St. Clair to N.L. Orient Blvd.; HARRY CT. (Lots 1 thru 4 inc., Blk. A, Santa Fe Orient Ind. District 3rd Add'n) from N.L. Harry to 8 inc. Cul-de-sac; HARRY CT. (Lots 5 thru 8 inc., Blk. A, Santa Fe Orient Ind. District 3rd Add'n) from N.L. Harry to 8 inc. Cul-de-sac.

GENERAL NOTES

1. FOR ADDITIONAL LAYOUT INFORMATION, SEE SANTA FE ORIENT IND. DISTRICT 3RD ADDITION PLAT AND THE STREET PAVING PLANS.
2. LOCATE CURB INLETS TO CORRESPOND WITH BACK OF CURBS AS SHOWN ON STREET PAVING PLANS.
3. FIELD ENGINEER SHALL TAKE TIES ON IRONS WHICH MAY BE DISTURBED DURING CONSTRUCTION. SUCH ALTERED IRONS SHALL BE REPLACED TO ORIGINAL LOCATION BY FIELD ENGINEER.
4. ALL METAL PIPES SHALL BE FULLY COATED HELICALLY CORRUGATED METAL PIPES FOR SIZES 21" IN DIA. (OR EQUIVALENT ARCH PIPE) OR SMALLER, AND FULLY COATED FULLY PAVED CORRUGATED METAL PIPES FOR SIZES 24" IN DIA. (OR EQUIVALENT ARCH PIPE) OR LARGER.
5. **CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS AND AS DIRECTED BY THE FIELD ENGINEER TO SAVE AS MANY TREES AS POSSIBLE IN THE VICINITY OF THE PROJECT AREA. CONTRACTOR SHALL REMOVE ONLY THOSE TREES WITHIN CLOSE PROXIMITY OF THE STORM WATER SEWER ALIGNMENT.**





NOTE: Locate inlets from back-of-curb using street paving plans.

MODIFIED TYPE 1A CURB INLET w=4'10"
Inlet @ Sta. 3+59.87 Line 2, See Sheet 4 of 10

CITY OF WICHITA, KANSAS
R. W. LINN, CITY ENGINEER

PROJECT NO. 472-76-245-80787-000-000-002

DATE: _____

WILLIAM S. KEE LICENSED PROFESSIONAL ENGINEER

Base Line: A line from iron ℄ Hiram ℄ Dooley to iron ℄ St. Clair ℄ Dooley.

B.M. 106.54 R.R. Spk. S-face Street Light Pole NE cor. Bonn-Dooley

Install 36" Pipe @ Lot Line ℄ 40' Drainage Eas'mt

Remove Pipe. Extend roadside ditch thru area at no additional cost

Sta 4+34.32 Hub @ R/w Line, Lot cor.

Sta. 0+00, Remove Manhole, Constr. Reinf. conc. Manhole, See Detail 1 this sheet

Sta. 0+74.5 Constr. Reinf. Conc. Manhole See Detail 2 this sheet

8.75' Lt. Sta. 4+05.88 Back = Sta. 4+14.67 Ahead Constr. Reinf. Conc. Manhole, See Detail 3 this sheet

Iron 32.15' Lt. Sta. 2+14.73

Iron, 27.75' Lt. Sta. 2+14.73

Install 36" Pipe

Flow in ditch

90°14'

8.75'

Base Line

DOOLEY AVE.

Iron Sta. 4+05.92

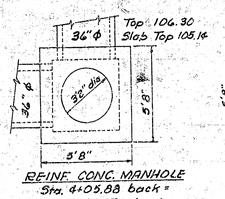
Iron 28.7 Rt. Sta. 0+08

BONN AVE.

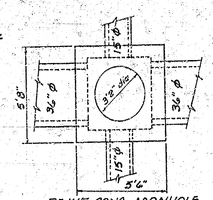
Regrade ditch as existing prior to project at no additional cost.

Replace road gravel as directed by field engineer.

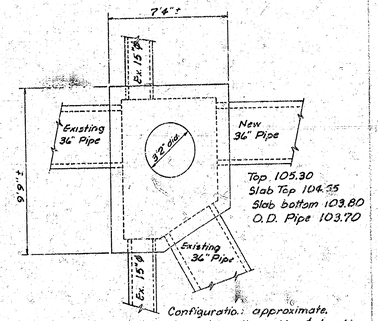
SCALE: 1"=20'



REINF. CONC. MANHOLE
Sta. 4+05.88 back =
Sta. 4+14.67 ahead
DETAIL 3



REINF. CONC. MANHOLE
Sta. 0+74.5
DETAIL 2



Configuration: approximate. Actual configuration & location to be determined by location of existing pipes.

REINF. CONC. MANHOLE
Sta. 0+00
DETAIL 1

PLAN
DLK-34/
W5 R*
NOTE BOOK

PROFILE
NOTE BOOK

LINE 1

Sta. 0+00 Constr. Manhole Top 105.30

Sta. 0+74.5 Constr. Manhole Top 105.30

Sta 4+05.88 back, Constr. Manhole Sta 4+14.67 ahead, Top 104.30

Ground Line @ Pipe

Ditch Line

36" Out 100.36 100.36

100.43 100.44

36" In 100.78 100.80

74.5' of 36" RCP @ +0.10%
Alt. 36" CMP (fully paved) @ +0.10%
(full asphalt coated)

331.38' of 36" RCP @ +0.10%
Alt. 36" CMP (fully paved) @ +0.10%
(full asphalt coated)

110
105
100

0 100.36
1 100.47
2 100.57
3 100.67
4 100.77

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
46 7074 MADE IN U.S.A.

Santa Fe Orient Irid. District 3rd Add'n Drainage, Line 1

Sheet 2 2/8

PLAN — DLK 361 W5R

PROFILE

Scale: 1"=20'

LOT 3, Blk A

LOT 4, Blk A

LOT 2 Blk A

LOT 1, Blk A

Manhole @ Sta. 4+05.88 Back

Dooley Ave.

℄ Base Line

24" Pipe, See Sheet 2

Road Gravel as directed by field engineer

Reconstruct ditch equal to that existing prior to this project; cost incidental to project.

Sta. 4+34.32 Hub @ R/W Line & Lot cor.

Remove fence as required

Iron
Sta. 4+05.92

Sta. 4+16.67 Ahead, Constr. Reinf. Conc. Manhole, See Sheet 2

Install 36" Pipe @ Lot Line
℄ 40' Drainage Easm't
℄ Swale

Install 4' of 15" Pipe
USFL 103.0, DSFL 102.9

Install 4' of 15" Pipe
USFL 103.0, DSFL 102.9

Const. Three (3) Type 1A Curb Inlet @ 8' cts.
(w=4'2", Top 106.00) one on either side of
Center Inlet. Center Inlet Sta. 7+76.16.

Iron, Street Sta. 3+28.67

Constr. Type 1A Curb Inlet, w=4'2"
Top 106.70 Street Sta 3+21.80

Install 45' of 15" Pipe
USFL 103.20, DSFL 102.98

HARRY CT

Install 18" Pipe

Sta. 9+14.98 Constr. Type 1A Curb Inlet
w=4'2", Top 106.70; Street Sta. 3+21.80

Iron, Street Sta. 9+28.67

8" Water

75'12

40.5'12 to blk. of cb.

8'9

9'N

41'

70'

LINE 1

Sta. 4+16.67 Constr. Manhole
Top 106.3

Sta. 7+76.16 Constr. Inlet
Top 106.00

Sta. 9+14.98 Constr. Inlet
Top 106.70

Constr. wide Swale in 40' easement
from el. approx. 106.3' to 103.0' ℄ of
ditch in Dooley Ave.
Cost incidental to project

Ground Line

Ground Line

future pavement

24" out 100.78
100.80

101.12
101.73

102.73

100.89

100.89

101.09

101.90

102.42

361.51 of 36" RCP @ +0.10%
A/A 36" CMP (fully paved) @ +0.10%
(full asphalt coated)

138.80' of 18" RCP @ +0.72%
A/A 18" CMP @ +0.72%
(full asphalt coated)

110
105
100

5 6 7 8 9

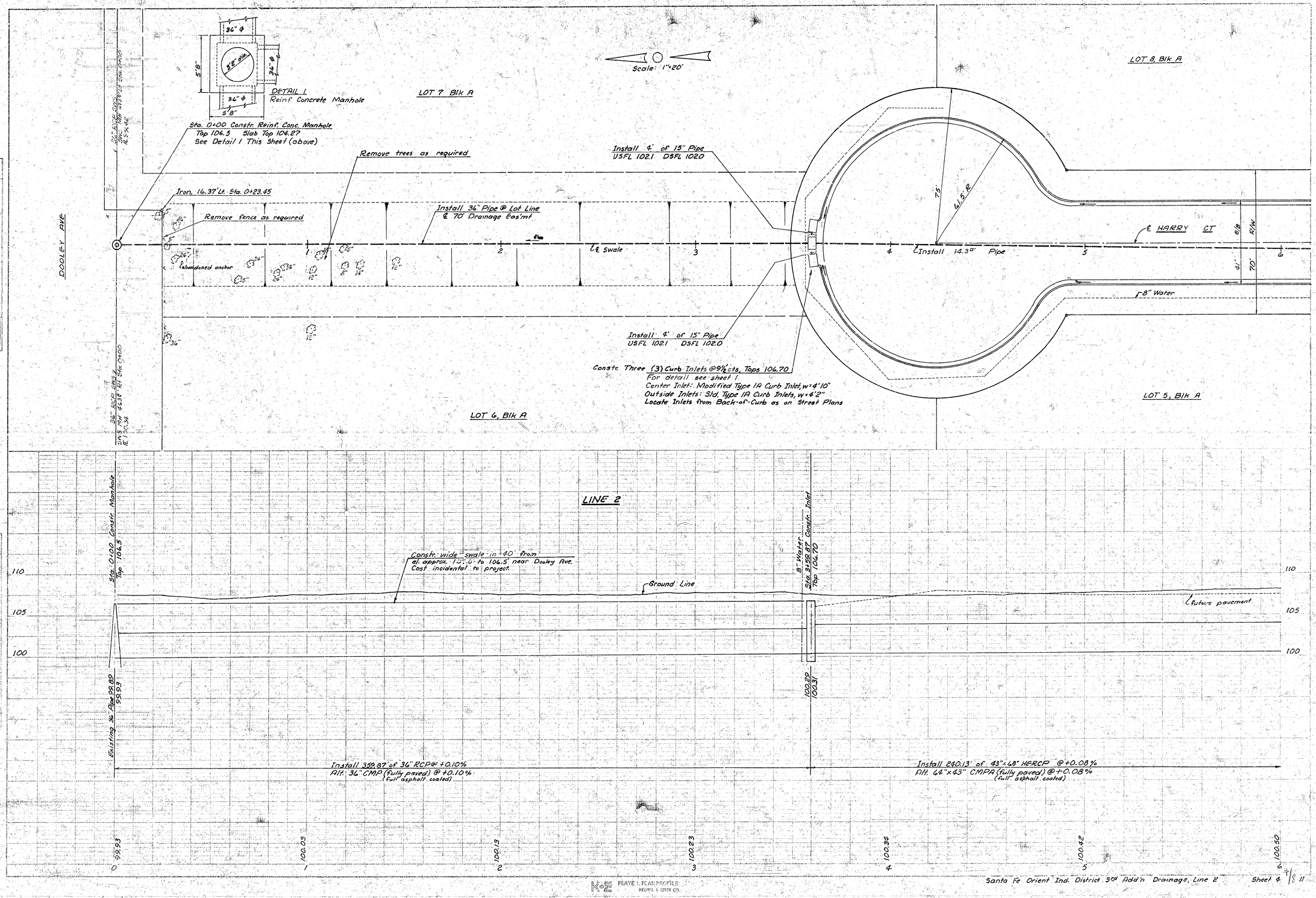
Santa Fe Orient Ind. District 3rd Add'n Drainage, Line 1

Sheet 9/9 11

PLAT 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 1024 MADE IN U.S.A.

PLAN — SCALES: H 1"=20' V —; NOTE BOOK: ALIGNMENT TICKETS; No. —; DRAWN BY —; CHECKED BY —; DATE —

PROFILE — SCALES: H 1"=20' V 1"=5'; NOTE BOOK: —; No. —; DRAWN BY —; CHECKED BY —; DATE —



K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
98 7024 MADE IN U.S.A.

Santa Fe Orient Ind. District 3rd Add'n Drainage, Line 2 Sheet 4 of 8 11

PLAN
NOTE BOOK
No.

LOT 5, Blk B

Street Sta. 13+60

Iron
Street Sta. 13+98.62

12" Water

Constr. Type 1A Curb Inlet, w=4'2", Top 107.00 Street Sta. 13+68
Install 4' of 15" Pipe, USFL 103.8, DSFL 103.7
Constr. Type 1A Curb Inlet, w=4'2", Top 107.00, Street Sta. 13+60
Install 4' of 15" Pipe, USFL 103.6, DSFL 103.5
Constr. Type 1A Curb Inlet, w=4'2", Top 107.00, Street Sta. 13+52
Install 27' of 18" Pipe, USFL 103.2, DSFL 102.4
Sta. 8+47.49 Constr. Reinf. Conc. Manhole
Street Sta. 13+34.57, See Detail 1 this sheet.

LOT 4, Blk B

Street Sta. 101+45

LOT 3, Blk B

12" Water

℄ HARRY STREET

R/W
B/B
41'
70'

Install 11.4'± Pipe

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.20, Street Sta. 12+98.57

Install 36' of 15" Pipe
USFL 103.6, DSFL 102.6

Iron, Street Sta. 13+07.57

Sta. 11+57.47 Manhole
See Sheet 6

Scale: 1"=20'

LOT 5, Blk A

Iron, Street Sta. 13+94.62

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.20, Street Sta. 13+84.57

Iron, Street Sta. 13+77.57

Install 48' of 15" Pipe
USFL 103.5, DSFL 102.6

℄ HARRY CT

Install 14.3'± Pipe

8" Water

LOT 8, Blk A

LOT 5, Blk A

9'0"

18" Pipe

Top 107.2
Slab Top 105.79

IE 102.8

IE 100.72

11.4'± Pipe

10'6"

15" Pipe

IE 102.6

IE 103.4
IE 100.70

15" Pipe

CL

14.3'± Pipe

REINF. CONC. MANHOLE @ Sta. 8+47.49
DETAIL 1

LINE 2

Sta. 8+47.49 Constr. Manhole
Top 107.2 See detail this sheet

8" Water by Others

future pavement

Ground Line

110
105
100

100.70
100.72

Install 247.49' of 43"x68" HERCP @ +0.08%
Alt. 44"x 43" CMPA (fully paved) @ +0.08%
(full asphalt coated)

Install 252.51' of 38"x60" HERCP @ +0.07%
Alt. 57"x 38" CMPA (fully paved) @ +0.07%
(full asphalt coated)

100.50
100.58
100.66
100.74
100.83
100.91

6 7 8 9 10 11

PROFILE

PLATE 1, PLAN & PROFILE
KENNEDY & KISER CO.
AB 7026

Santa Fe Orient Ind. District 3rd Add'n Drainage, Line 2

Sheet 7/8 of 11

LOT 4, Blk B

Street Sta. 10+45

5'6"

8'0"

4'2" dia.

Top 106.9
Slab Top 105.57

Detail 1

Constr. Reinf. Conc. Manhole
Sta. 11+57.47
Street Sta. 10+27.57
See Detail 1 above.

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.0 Street Sta. 10+27.57

Install 26' of 15" Pipe
USFL 103.3 DSFL 102.8

Install 11.4% Pipe

Install 13' of 15" Pipe
USFL 103.3 DSFL 102.8

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.0 Street Sta. 10+27.57

LOT 5, Blk B

5'6"

7'3"

3'2" dia.

Top 106.5
Slab Top 105.42

Detail 2

Constr. Reinf. Conc. Manhole
Sta. 12+93.47
Street Sta. 8+91.57
See Detail 2 this sheet

LOT 3, Blk B

Constr. Type 1A Curb Inlet w=4'2"
Top 106.5 Street Sta. 8+91.57

Install 4' of 15" Pipe
USFL 103.0; DSFL 102.9

Sta. 13+26.14 Constr. Type 1A Curb Inlet
w=4'2", Top 106.50; Street Sta. 8+83.57

Install 24" Pipe

Install 8.7% Pipe

Constr. Type 1A Curb Inlet w=4'2"
Top 106.50 Street Sta. 8+83.57

Install 4' of 15" Pipe
USFL 102.8; DSFL 102.7

Constr. Type 1A Curb Inlet, w=4'2"
Top 106.50 Street Sta. 8+91.57

Install 14' of 18" Pipe
USFL 102.6; DSFL 102.4

Street Sta. 9+07.57

Street Sta. 7+50

LOT 2, Blk B

Sta. 16+89.14 Constr. Type 1A Curb Inlet
w=4'2", Top 107.02, Street Sta. 7+18.57

Sta. 14+26.14 Constr. Type 1A Curb Inlet
w=4'2" Top 107.46, Street Sta. 5+83.57

12" Water by Others

Install 18" Pipe

Install 15" Pipe

Iron
Street Sta. 5+07.57

HARRY CT

LOT 4, Blk A

PLAN

NOTE BOOK

PROFILE

LINE 2

11+57.47 Constr. Manhole
Top 106.9 See Detail this sheet

12+93.47 Constr. Manhole
Top 106.5 See Detail this sheet

13+26.14 Constr. Inlet
Top 106.50

14+89.14 Constr. Inlet
Top 107.02

16+26.14 Constr. Inlet
Top 107.44

Ground Line

future pavement

future curb

Ground Line

110
105
100

100.80
100.94
101.07
101.17
102.00
102.20
102.70
103.92
104.17
104.83

Install 57.47' of 38"x60" HERCP @ +0.07%
Alt. 52"x38" CMPA (fully paved) @ +0.07%
(full asphalt coated)

Install 136' of 36"x 53" HERCP @ +0.07%
Alt. 49"x33" CMPA (fully paved) @ +0.07%
(full asphalt coated)

Install 30.45' of 24" RCP @ +0.44%
Alt. 24" CMP (fully paved) @ +0.44%
(full asphalt coated)

Install 165' of 18" RCP @ +0.74%
Alt. 18" CMP @ +0.74%
(full asphalt coated)

Install 135' of 15" RCP @ +0.89%
Alt. 15" CMP @ +0.89%
(full asphalt coated)

100.80
101.10
102.04
103.26
104.71

11 12 13 14 15 16

PROFILE

PLATE 1 PLAN-PROFILE
KOUTSKY & KNEE CO.

Santa Fe Orient Ind. District 3rd Add'n Drainage, Line 2

Sheet 8 of 11

PLAN
HORIZONTAL — 1"=20'
VERTICAL —
STRUCTURE LOCATION
NOTE BOOK
NO.

PROFILE
HORIZONTAL —
VERTICAL —
NOTE BOOK
NO.

BM 105.49 R.R Spk N-fc. P.P. SW cor Vine & Dooley

Lot 11, Blk A

Sta. 0+00 Constn. Reinf. Conc. Manhole
See Detail 1 this sheet

Road Gravel as directed by Field Engineer

Iron, 4.00' Lt. Sta. 0+37.10

Remove fence as required, No replacement

Lot Line
℄ 60' Drainage Eas'mt

℄ Install 36" Pipe

℄ Swale

Flow

Sta. 1+06.70 Constr. Std. Double
2'×2' Inlet, Top 105.20

Constr. Type 1A Curb Inlet, w=4'2"
Top 105.50; Street Sta. 25+50

Install 4' of 15" Pipe
USFL 102.5; DSFL 102.4

Iron, 6.00' Lt. Sta. 3+06.70

Sta. 3+17 Constr. Type 1A Curb Inlet, w=4'0"
Top 105.50; Street Sta. 25+42

℄ HARRY ST.

61'

B/B

70'

R/W

℄ 12" Water

Lot 8, Blk. B

Constr. Type 1A Curb Inlet, w=4'2"
Top 105.50, Street Sta. 25+50

Install 4' of 15" Pipe
USFL 102.5; DSFL 102.4

Constr. Type 1A Curb Inlet, w=4'2"
Top 105.50; Street Sta. 25+42

Install 45' of 18" Pipe
USFL 101.55; DSFL 101.10

Top 105.0
Slab Top 103.07

34" ϕ
8.98
32" dia
7.9227
34" ϕ
5.98
34" ϕ
5'8"
5'8"

REINF. CONC. MANHOLE
Sta 0+00
DETAIL 1

Scale: 1"=20'

Lot 10, Blk A

See Sheet 8
34" Pipe

Sta. 0+00 Constr. Manhole
Top 105.0

Sta. 1+06.70 Constr. Std. Double
2'×2' Inlet, Top 105.20

LINE 3

Const. wide Swale in 40'
Cost incidental to project

Sta. 3+17 Constr. Inlet
Top 105.50

Ground Line

105.1

105.8

future pavement

110
105
100
95

98.82

Existing 34" 98.67
98.73

98.83

98.93

98.03

99.05

99.10

36" in

317' of 34" RCP @ +0.10%
Alt. 36" CMP (fully paved and full asphalt coated) @ +0.10%

0 98.73
1
2
3

110
105
100
95

PLATE 1, PLAN-PROFILE
REUFFEL & ESSER CO.
40 1024

Santa Fe Orient Ind. District 3rd Add'n Drainage, Line 3

Sheet 7 1/8

LOT 8, Blk B

LOT 7, Blk B

LOT 6, Blk B

Scale: 1"=20'

Street Sta. 22+72.86

Street Sta. 19+52.86

Iron, Street Sta. 24+10.02

Constr. Type 1A Curb Inlet, w=4'2"
Top 105.91; Street Sta. 24+04

Install 45' of 15" Pipe
USFL 102.2 ; DSFL 101.7

Constr. Type 1A Curb Inlet, w=4'2"
Top 106.46; Street Sta. 22+36

Install 45' of 15" Pipe
USFL 102.7 ; DSFL 102.2

Install 45' of 18" Pipe
USFL 103.33; DSFL 102.97

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.04, Street Sta. 20+58

Install 4' of 15" Pipe
USFL 106.0 ; DSFL 103.9

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.06, Street Sta. 20+50

12" Water

℄ HARRY Street

80' R/W

41'

70'

18" Pipe
See Sheet 7

Install 36" Pipe

36" Pipe
See Sheet 7

Install 30" Pipe

Sta. 3+17 Constr. Curb Inlet
See Sheet 7

Sta. 4+64 Constr. Type 1A Curb Inlet
w=6'0", Top=105.91, Street Sta. 24+06

Iron, Street Sta. 24+10.02

Sta. 6+34 Constr. Type 1A Curb Inlet
w=5'0" Top 106.46, Street Sta. 22+36

Constr. Type 1A Curb Inlet, w=4'2"
Top 107.06, Street Sta. 20+50

Install 4' of 15" Pipe
USFL 104.0 DSFL 103.9

Sta. 8+12 Constr. Type 1A Curb Inlet
w=5'0", Top 107.04, Street Sta 20+58

LOT 10, Blk A

LOT 9, Blk A

LOT 8, Blk A

Street Sta. 22+72.86

Street Sta. 19+52.86

PLAN

SCALE(H): 1" = 20'
PLOTTED: JUNE 1972
NOTE BOOK: PLOTTED BY: M.C.M.
AT: CITY ENGINEER
No.

PROFILE

SCALE(H): 1" = 20'
PLOTTED:
NOTE BOOK:
AT: CITY ENGINEER
No.

LINE 3

Ground Line

future curb

Ground Line

3+17 Constr. Curb Inlet
Top 105.50

4+64 Constr. Curb Inlet
Top 105.91

6+34 Constr. Curb Inlet
Top 106.46

8+12 Constr. Curb Inlet
Top 107.04

110

105

100

95

99.10

99.56

100.02

100.78

101.27

102.48

18" in 102.97

36" out 99.05

147' of 36" RCP @ +0.30%
Alt: 36" CMP (fully paved) @ +0.30%
(full asphalt coated)

170' of 30" RCP @ +0.45%
Alt. 30" CMP (fully paved) @ +0.45%
(full asphalt coated)

178' of 24" RCP @ +0.48%
Alt. 24" CMP (fully paved) @ +0.48%
(fully asphalt coated)

99.35

100.18

100.63

101.72

102.40

3 4 5 6 7 8

PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7024 MADE IN U.S.A.

Santa Fe Orient Ind. District 3rd Add'n Drainage, Line 3

Sheet 3/8 11