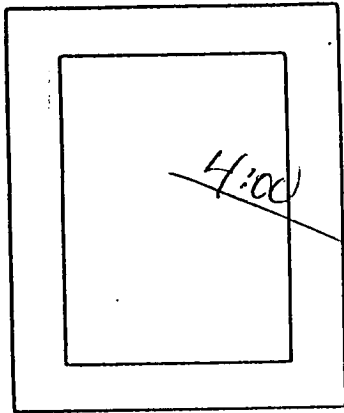
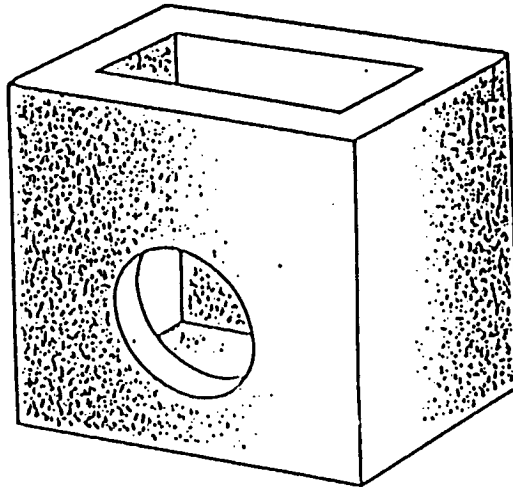


TYPE "C" CURB INLET



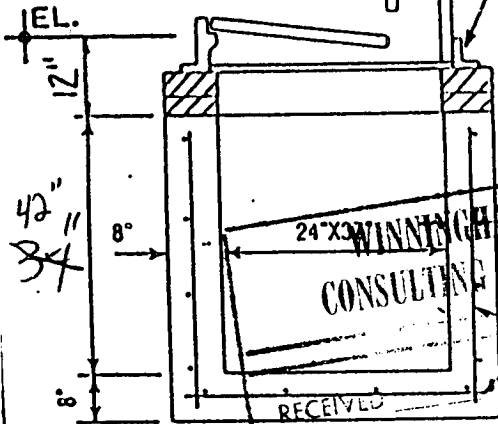
15" RCP
@ 280
up 18"



NO.	1
ELEV.	5.76
INV.	2.80
HT.	2.96
CUT	36"
PRICE	18-72.12 34" 42"

FRAME, GRATE & HOOD BRICKED TO GRADE BY CONTRACTOR

USF # 5130-6168
FRAME & GRATE



WINNICHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS
24" X 36" CLEARANCE
1" @ 12" O.C.E.W. O/E
RECEIVED
☒ APPROVED AS NOTED
DATE 1/3/96
DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: X/B

BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF # 5130-6168		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T

INDEX 232

18" Smp

96-226

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGR

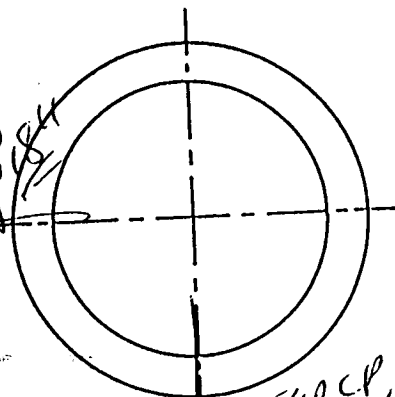
JOB:

FOREGATE
VILLAGE 18

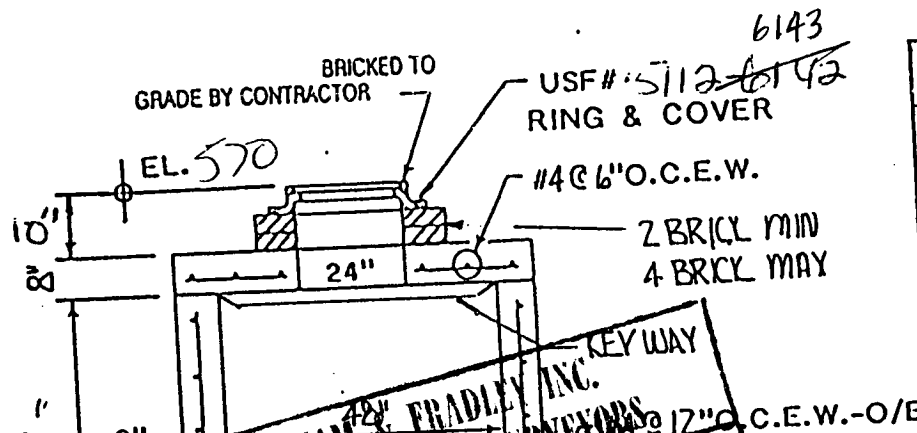
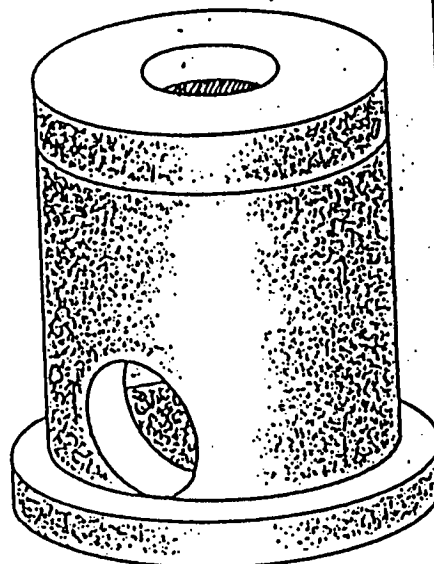
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	2
ELEV.	5.70
INV.	2.35
HT.	3.35
CUT	40"
PRICE	18-18 140

18" RCP
@ 2.35
up 18"



15" RCP
@ 2.60
up 21"



WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

APPROVED AS NOTED

REVISE & RESUBMIT

#4@17" O.C.E.W.

DATE 1/3/96
DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.
DATE 12-29-95
INITIALS: MB

BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP 8"		
USF# 425C		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

96-226

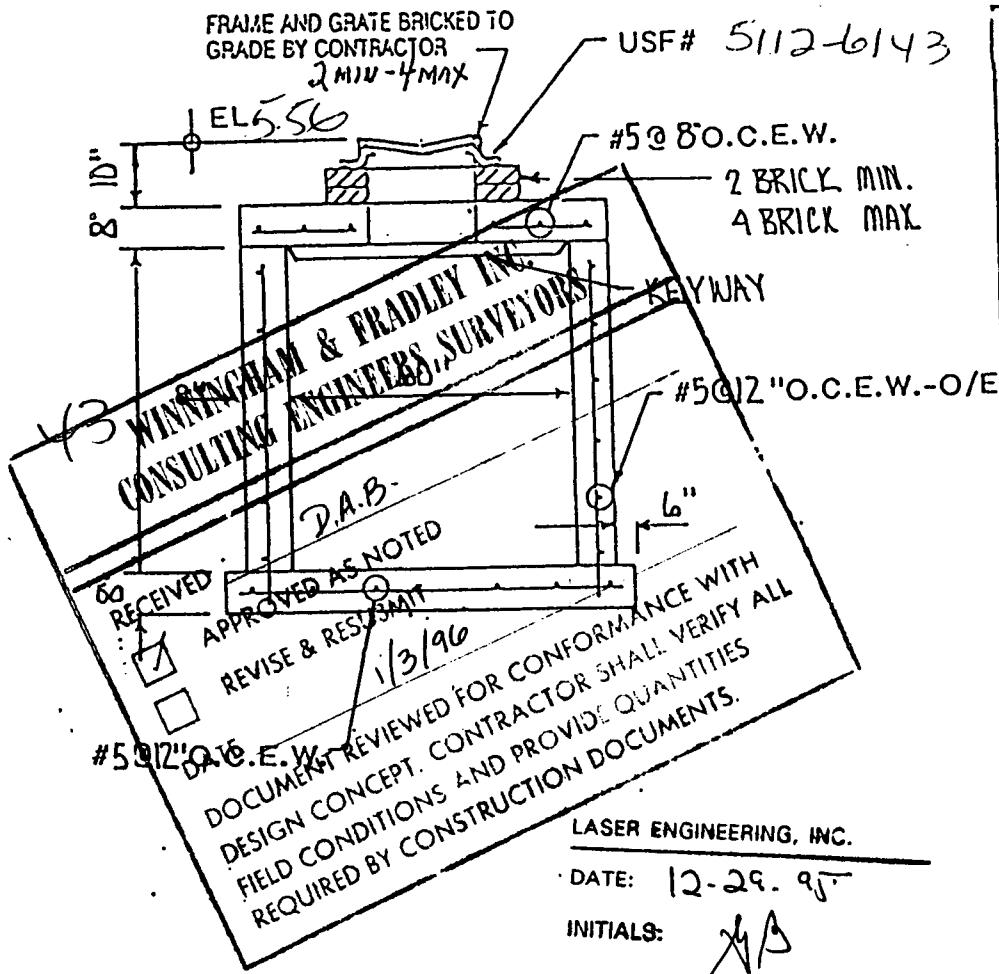
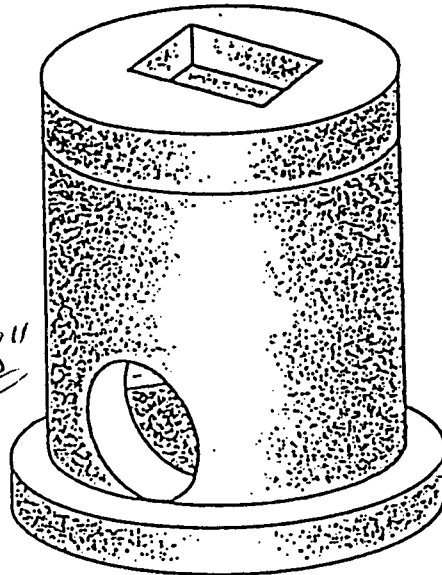
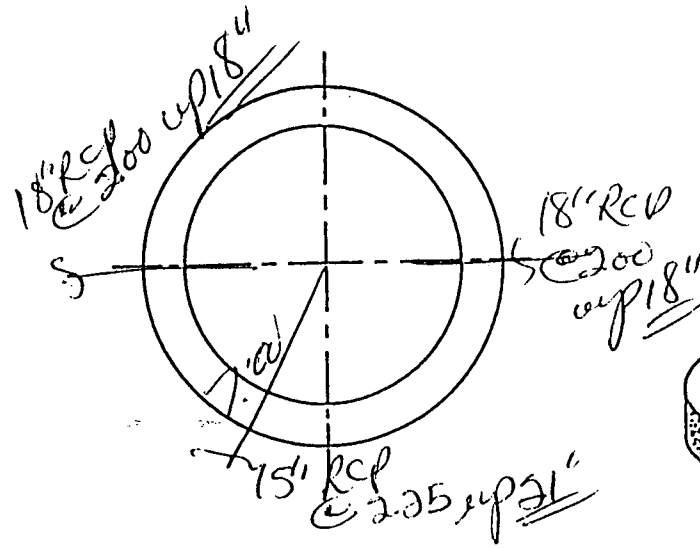
48" I.D.-STORM

CONTRACTOR:
LASER ENG'G

JOB: TOWN GATE
VILLAGE 18

NO.	3
ELEV.	5.56
INV.	2.00
HT.	3.56
CUT	43
PRICE	118-18

43



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TCP 8"		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS
TYPE II CEMENT

18" Samp

96-226

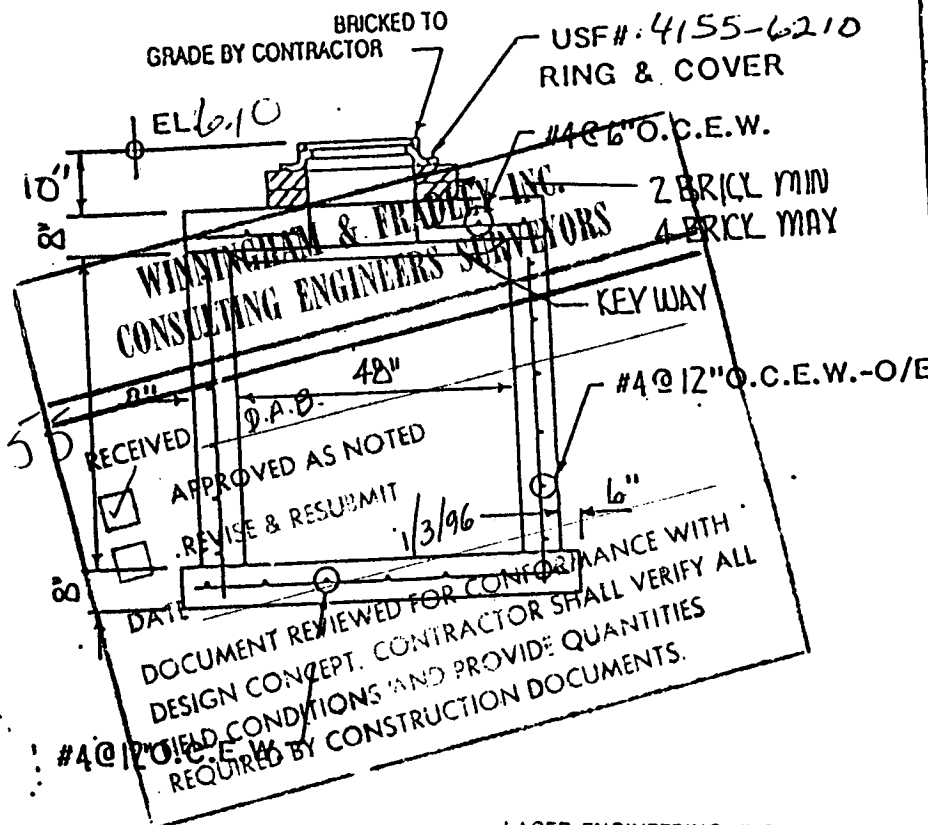
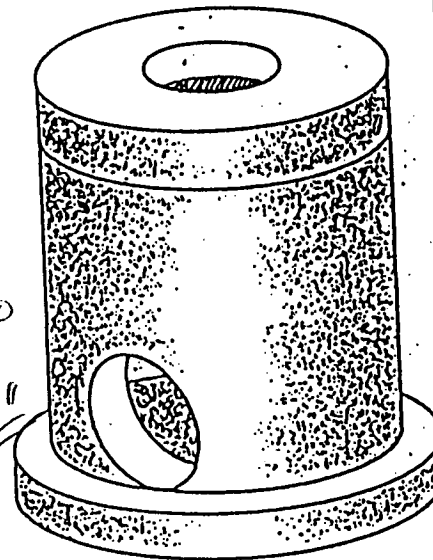
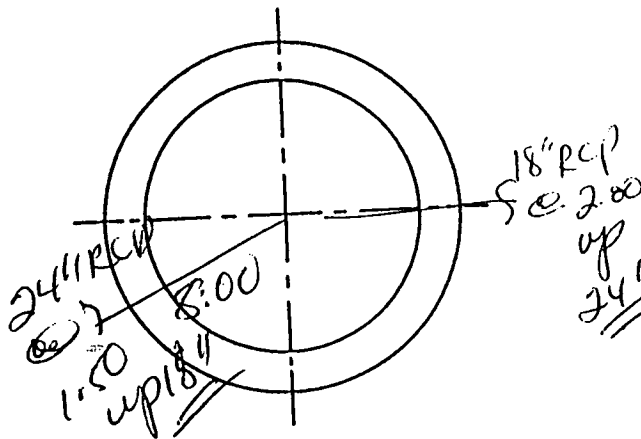
61" I.D.-STORM INLET

CONTRACTOR:
LASER ENGRG

JOB:
TOWNGATE
VILLAGE 18

TRI-COUNTY CONCRETE
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	4
ELEV.	6.10
INV.	1.50
HT.	4.60
CUT	55
PRICE	718-18
	55



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP 8"		
USP 42BC		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18' Sump

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: X/B

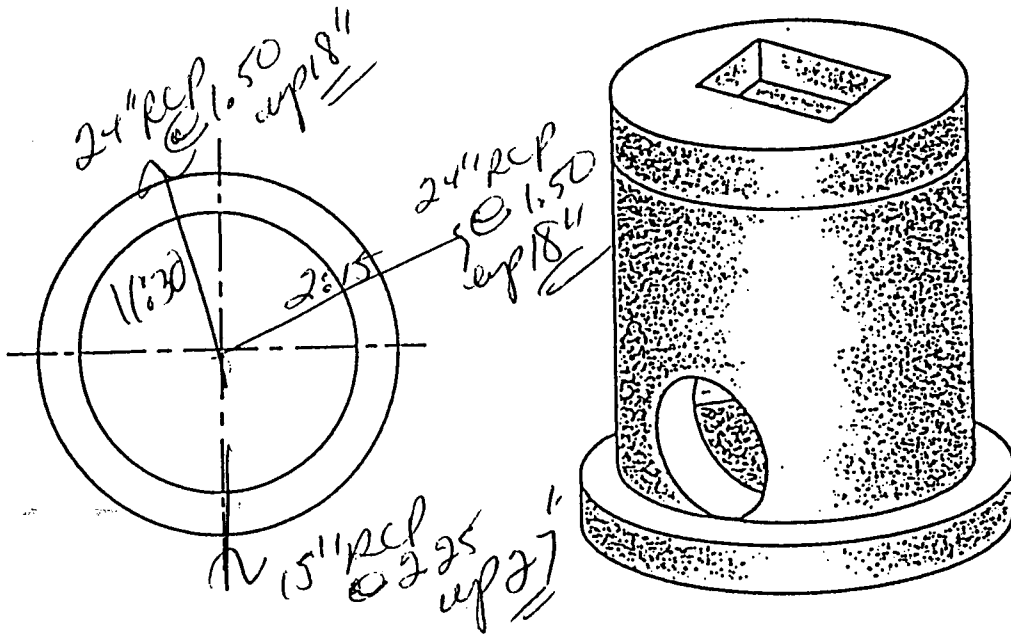
48" I.D.-STORM

CONTRACTOR:
LASER ENGRG

JOB: TOWN GATE
VILLAGE 18

NO.	5
ELEV.	5.76
INCH.	1.50
HT.	4.26
CUT	51"
PRICE	18-18

51"



FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF # 512-6143

EL. 5.76
2 MIN - 4 MAX
#5 @ 8" O.C.E.W.
2 BRICK MIN.
4 BRICK MAX.

WINNINGHAM & HADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED D.A.B.
APPROVED AS NOTED
REVISE & RESUBMIT

DATE 1/3/96
DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: XAB

BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP 8"		
USF # 5106-1044		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" Samp.

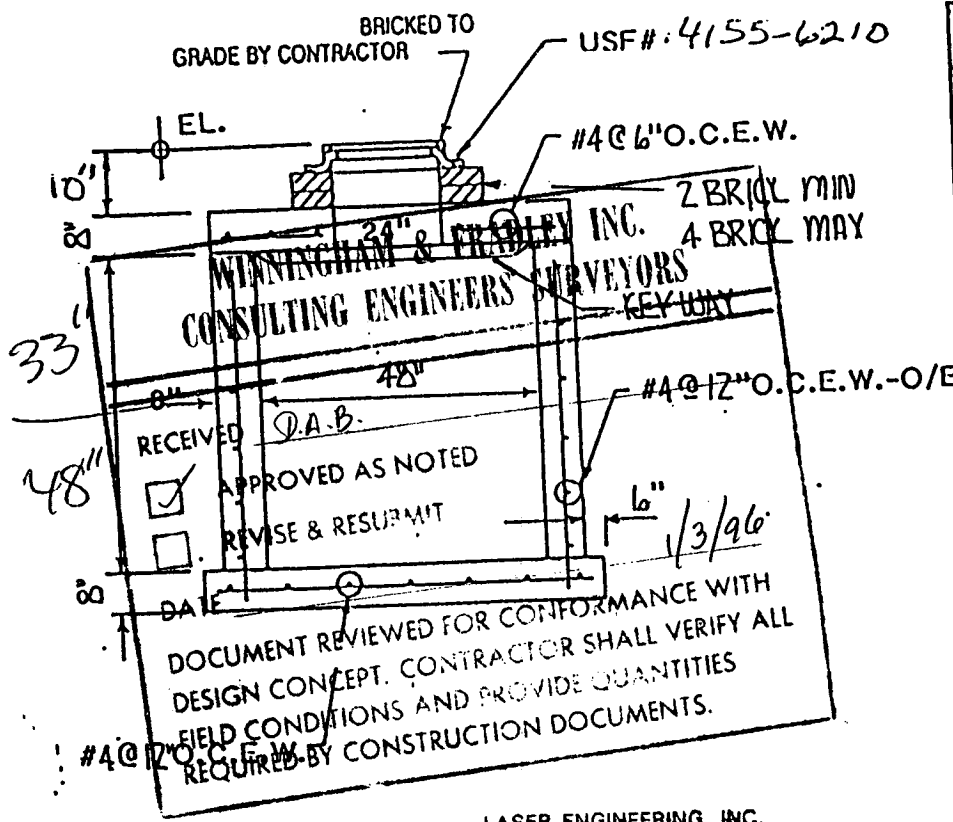
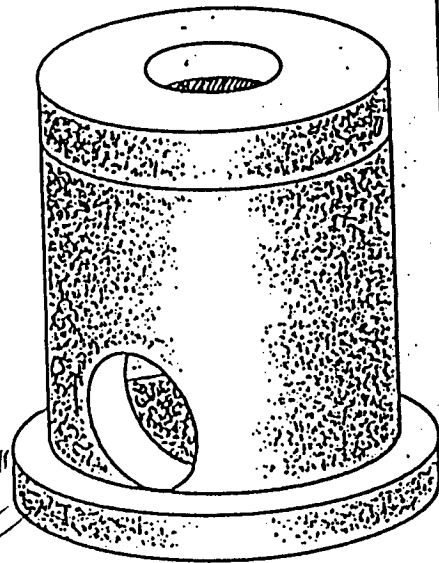
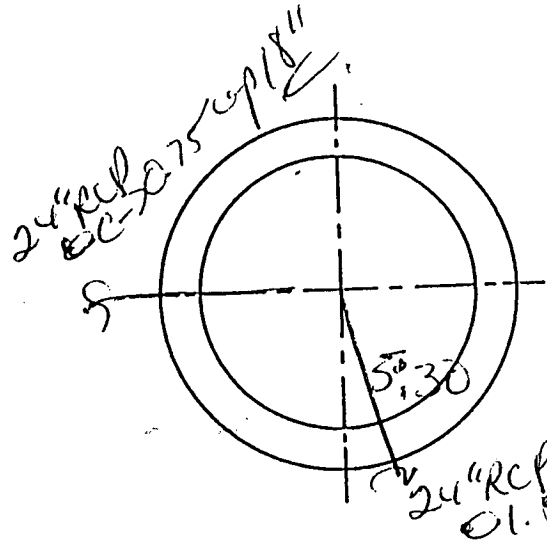
96-226

61" I.D.-STORM INLET

CONTRACTOR:
LASER ENGRG

JOB:
TOWN GATE
VILLAGE 18

NO.	6
ELEV.	6.80
INV.	0.75
HT.	6.75
CUT	81"
PRICE	+18-18 81

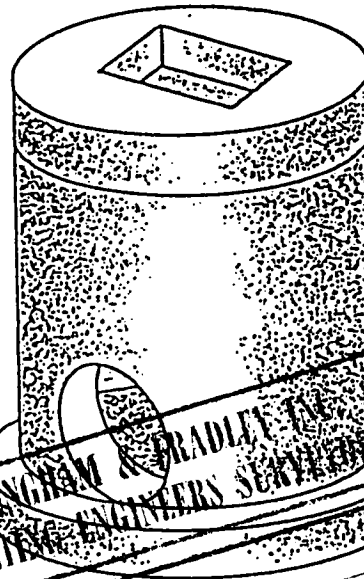
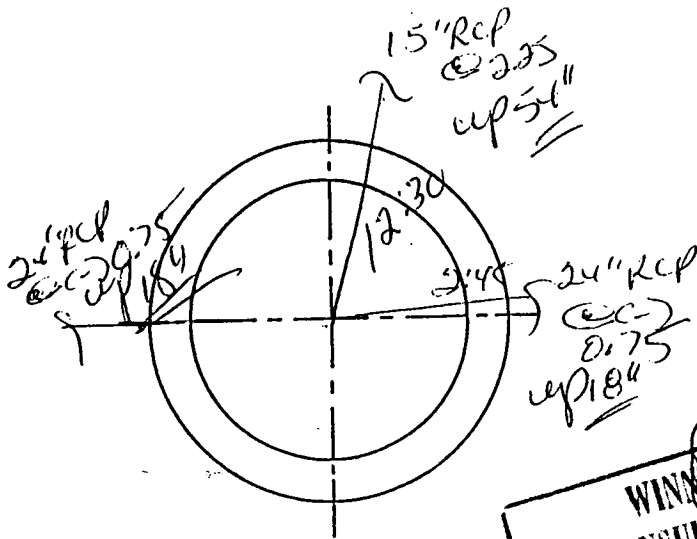


BASE	DATE MADE	DATE SHIPPED
RISE 1		
RISE 2		
COLLAR		
TOP 8"		
USF# 425C		
GENERAL NOTES		
4000 PSI @ 28 DAYS		
TYPE II CEMENT		
18" Sump		
96-226		

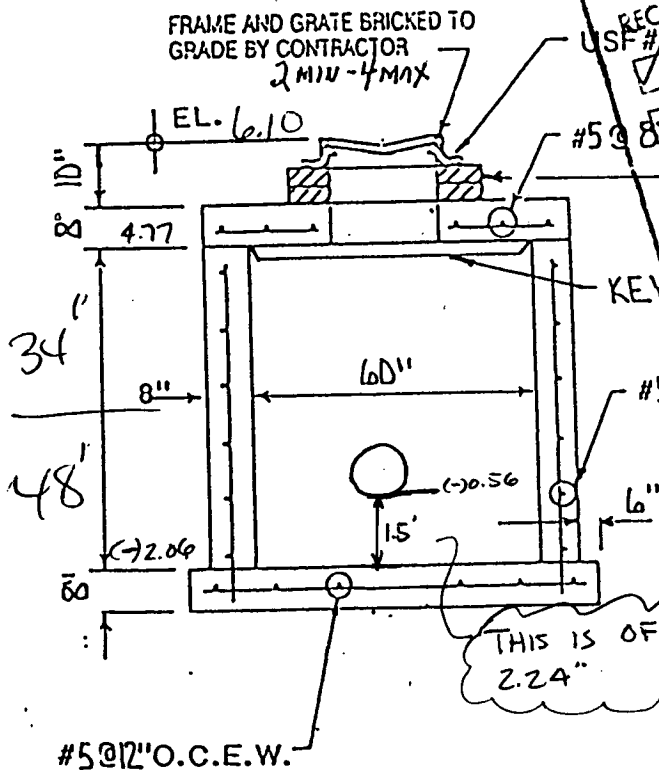
LASER ENGINEERING, INC.
DATE: 12-29-95
INITIALS: *AB*

48" I.D.-STORM	CONTRACTOR: LASER ENGRG	JOB: TOWN GATE VILLAGE 18
----------------	----------------------------	------------------------------

NO.	7
ELEV.	6.10
INV.	(-) 0.75
HT.	6.85
CUT	82"
PRICE	118-118 82"



RECEIVED D.A.B.
 USF # 715 APPROVED AS NOTED
 REVISION 6/2/90
 REVISE & R. SUBMIT
 DATE 8/30/90 C.E.W. 1/3/90
 DESIGN REVIEWED FOR CONFORMANCE WITH
 DOCUMENT 10/1/90
 DESIGN CONDUCT. CONTRACTOR SHALL VERIFY ALL
 FIELD CONDITIONS AND PROVIDE QUANTITIES
 REQUIRED BY CONSTRUCTION DOCUMENTS.



THIS IS OFF BY
2.24"

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: *HA*

BASE	DATE MADE	DATE SHIPPED
RISE		
CONTRACTOR SHALL VERIFY ALL		
CONSTRUCTION DOCUMENTS.		
CP 8"		
USF # 5106-6197		
GENERAL NOTES		
4000 PSI @ 28 DAYS		
TYPE II CEMENT		
18" Sump		
96-226		

60" I.D.-STORM INLET

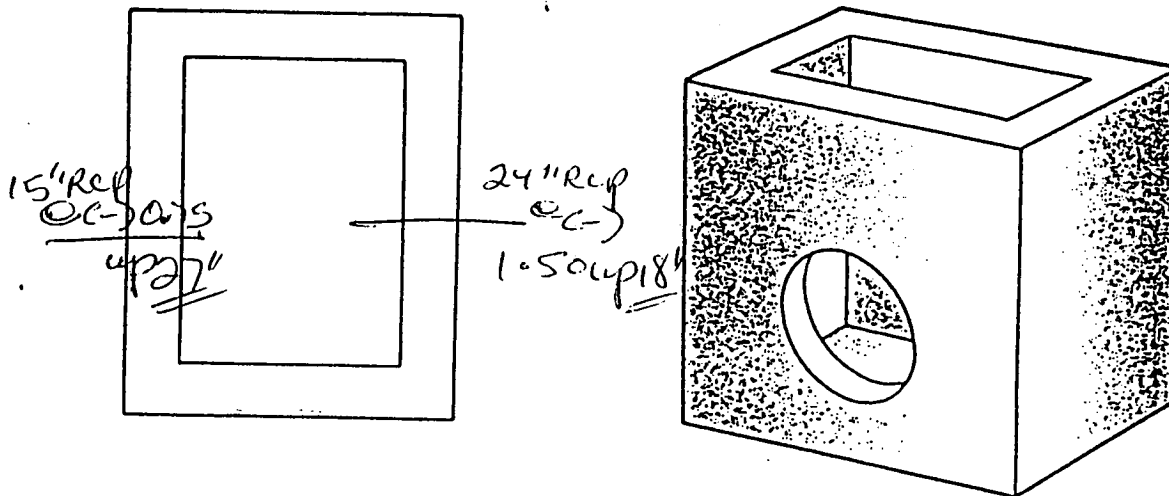
CONTRACTOR:
LASER ENGRG

JOB:
TOWN GATE
VILLAGE 18

TRI-COUNTY · CONCRETE · PRODUCTS

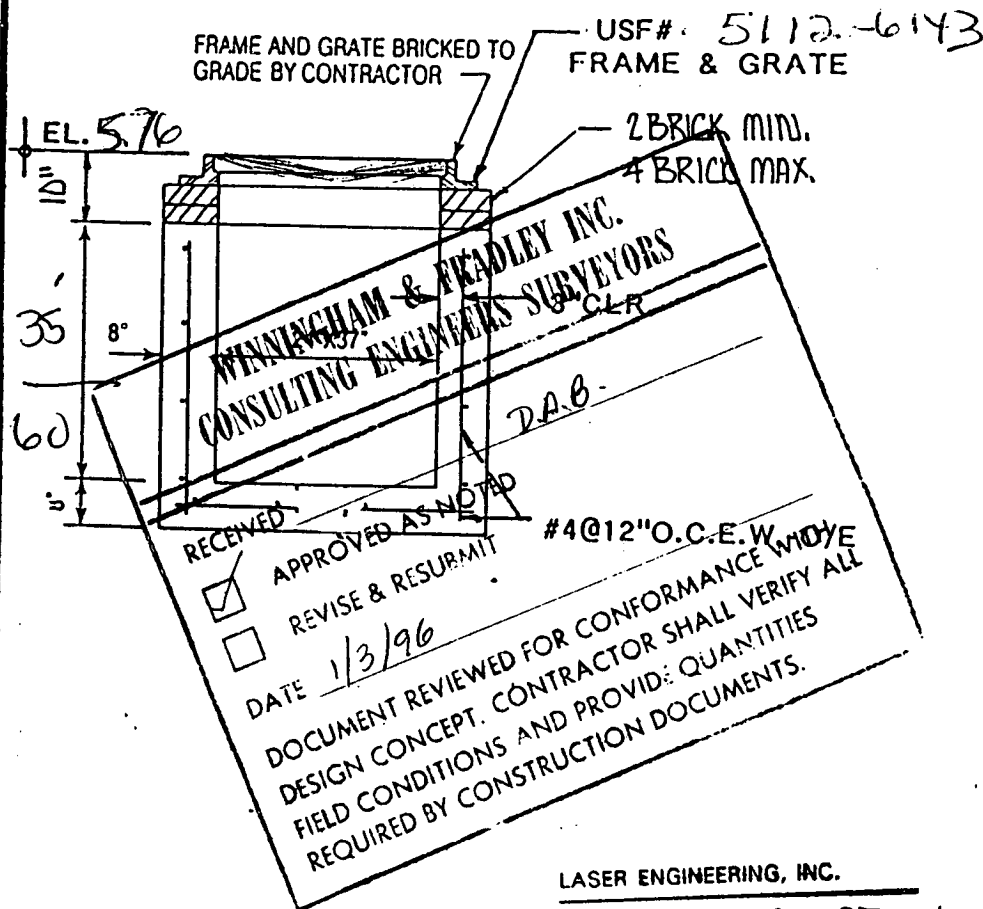
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	8
ELEV.	5.76
INV.	(-)/0.50
HT.	7.26
CUT	87
PRICE	418-10

95



LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: JA

BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF# 4155-6216		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Sump

96-226

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGRG

JOB:

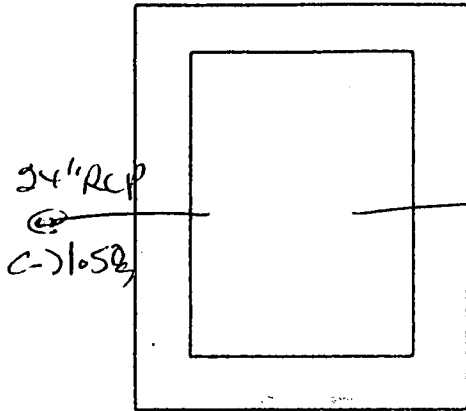
TOWN GATE VILLAGE 18

TRI-COUNTY · CONCRETE · PRODUCTS

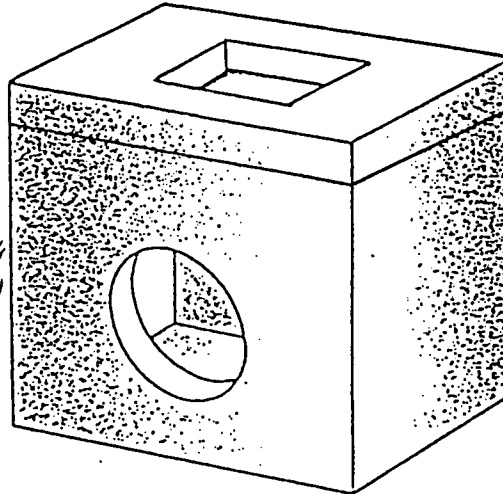
1926 · SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "E" CATCH BASIN

P.R.B.



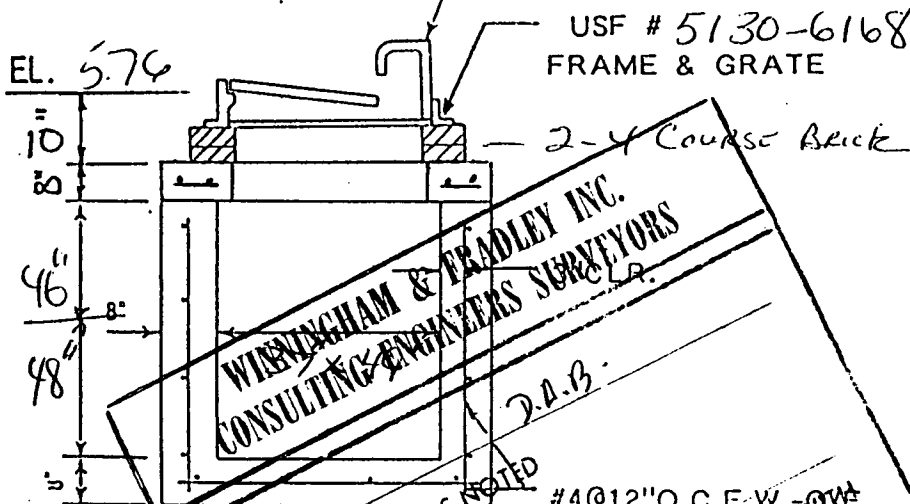
30" RCP
Ø 100
Lip 55"



NO.	9
ELEV.	5.76
INV.	(-)/1.50
HT.	7.26
CUT	87
PRICE	25-18

94

FRAME, GRATE & HOOD BRICKED TO GRADE BY CONTRACTOR



USF # 5130-6168
FRAME & GRATE

2-4 Course Brick

WILKINSON & TRADLEY INC.
CONSULTING ENGINEERS SURVEYORS
P.A.B.

RECEIVED
☒ APPROVED AS NOTED
☐ REVISE & RESUBMIT
DATE 1/3/90
DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

TE: 12-29-95

INITIALS: P.B.

BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

85" Sump

96-226

INLET-FRAME&GRATE

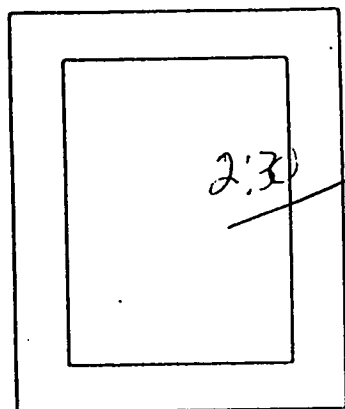
CONTRACTOR:

LASER ENGR

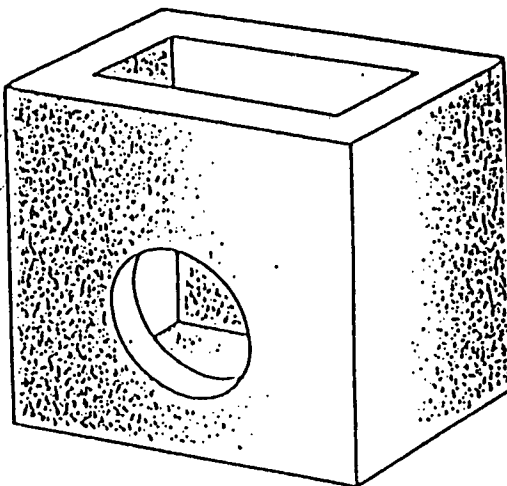
JOB:

Town Gate
Village 18

TYPE "C" CURB INLET

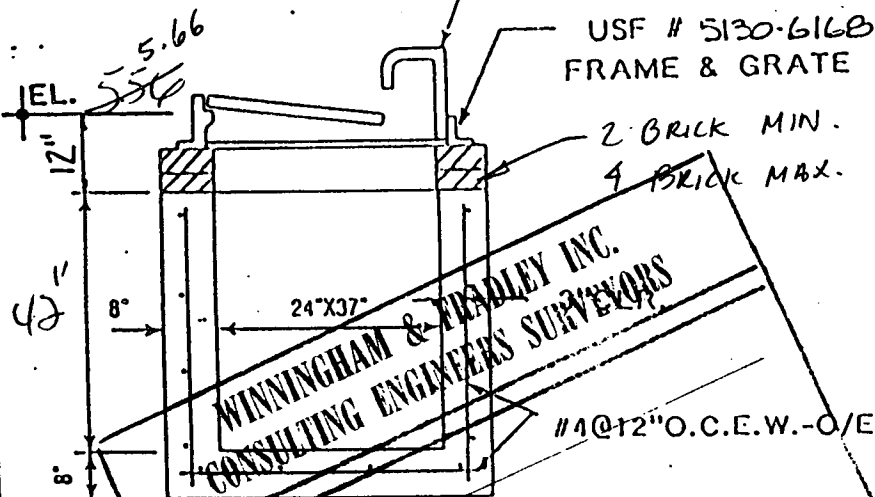


15" RCP
@ 270
up 18"



NO.	11
5.66 ELEV.	5.58
INV.	2.70
3.46' HT.	2.86
41.52" CUT	34"
PRICE	18.00 42.4
	+18-12

FRAME, GRATE & HOOD BRICKED TO GRADE BY CONTRACTOR



WINNINGHAM & TINDLEY INC.
CONSULTING ENGINEERS SURVEYORS

#1 @ 12" O.C. E.W. - O/E

RECEIVED D.A.B.
☒ APPROVED AS NOTED
☐ REVISE & RESUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: [Signature]

BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF # 5130-6168		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T

INDEX 232

"C" INLET-FRAME & GRATE

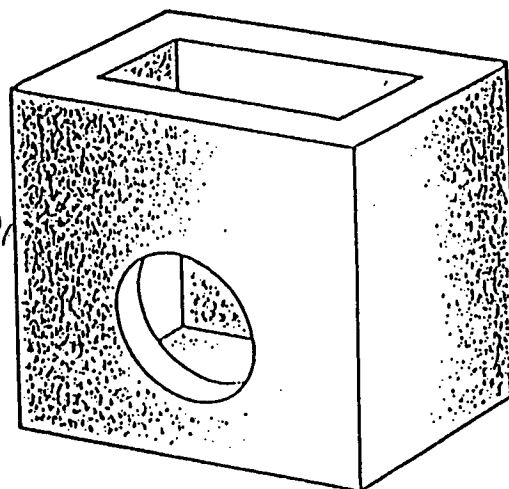
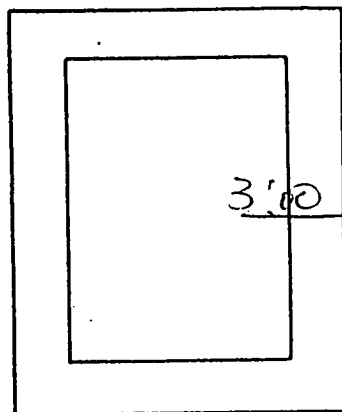
CONTRACTOR:

JOB:

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



15" RCD
5280
up 18"

NO.	12
ELEV.	5.76
INV.	2.80
HT.	2.96
CUT	36"
PRICE	18-10 44

FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 512-6143
FRAME & GRATE

2 BRICK MIN
4 BRICK MAX.

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

D.A.B.
1@12" O.C.E.W.-O/E

RECEIVED

☒ APPROVED AS NOTED
☐ REVISE & RESUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: JAB

DATE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF# 5100-6149		

GENERAL NOTES

4000 PSI @ 20 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Smp

96-226

"C" INLET-FRAME & GRATE

CONTRACTOR:

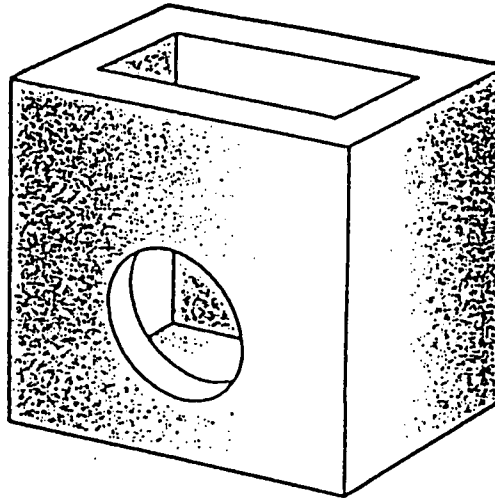
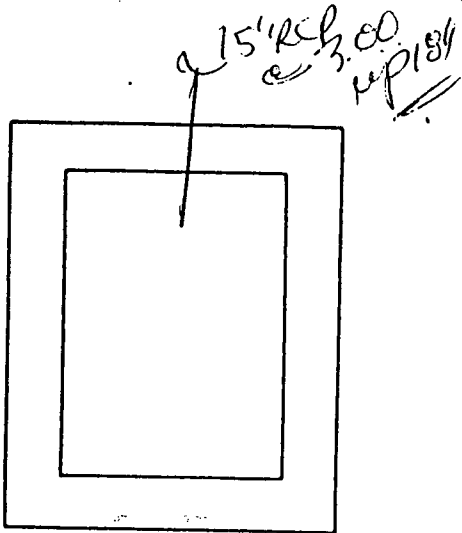
LASER ENG'G

JOB: TOWN GATE
VILLAGE 18

TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	13
ELEV.	6.10
INV.	3.00
HT.	3.10
CUT	37"
PRICE	418-10

45

FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 4155-621D
FRAME & GRATE

2 BRICK MIN.
4 BRICK MAX.

EL. 6.10

45"

8"

WINNINGHAM & BRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

D.A.B.

RECEIVED

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

DATE 1/3/96

#4@12" O.C.E.W.

DOCUMENT REVIEWED FOR CONFORMANCE WITH O/E
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF# 4155-621D		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: *JA*

"C" INLET-FRAME & GRATE

CONTRACTOR:

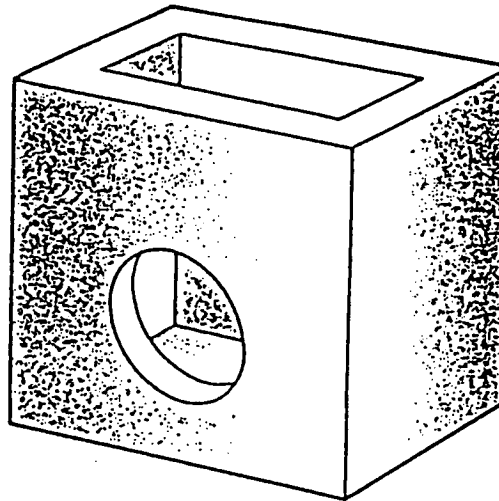
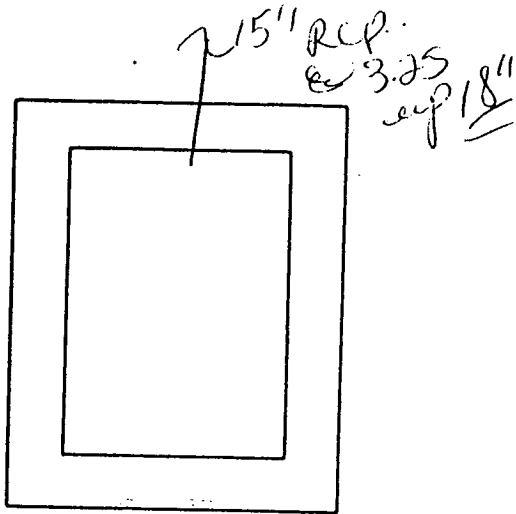
LASER ENGRG

JOB: TOWN GATE
VILLAGE 18

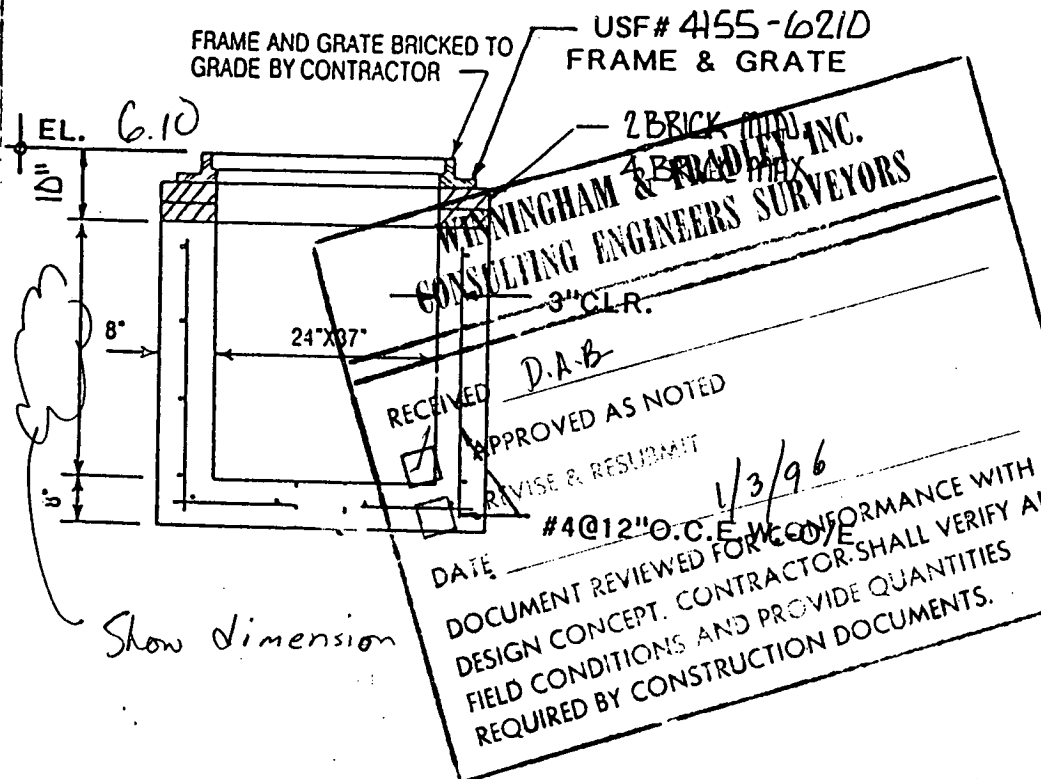
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	14
ELEV.	6.10
INV.	3.25
HT.	2.85
CUT	34.6
PRICE	18.10 48



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF # 4155-6210		

GENERAL NOTES
4000 PSI @ 28 DAYS
TYPE II CEMENT
INLET CONFORMS TO F.D.O.T.
INDEX 232
96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

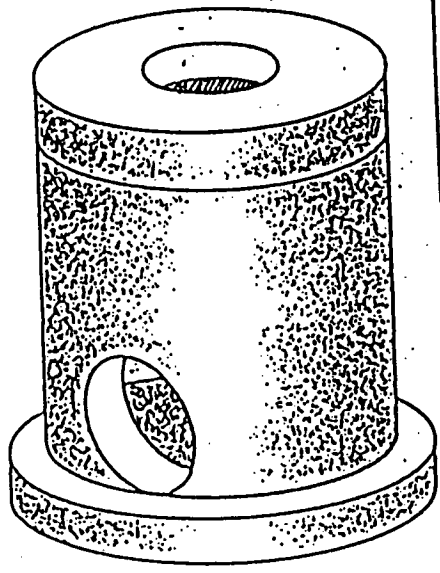
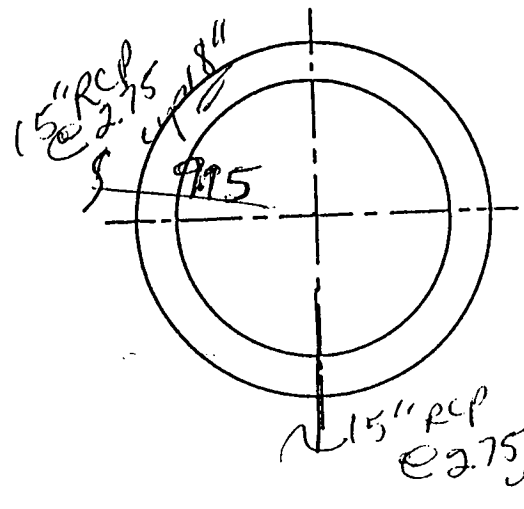
INITIALS: *HA*

"C" INLET-FRAME & GRATE

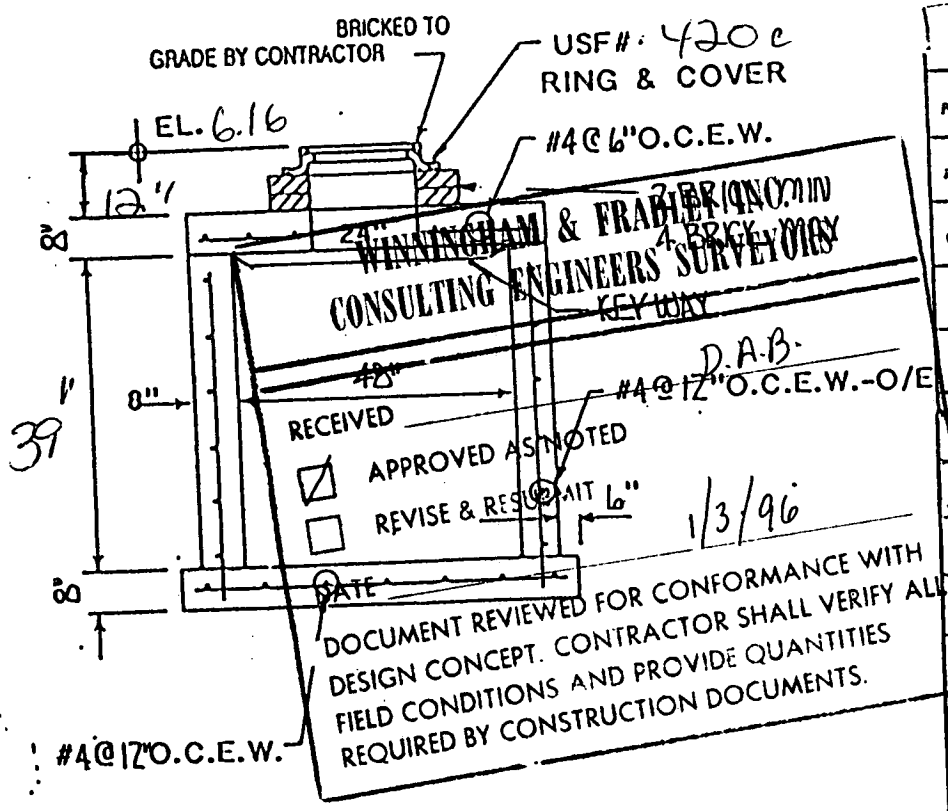
CONTRACTOR:
LASER ENGRG

JOB: TOWN GATE
VILLAGE 18

NO.	15
ELEV.	6.16
INV.	2.75
HT.	3.41
CUT	41"
FACE	+18-20



39"

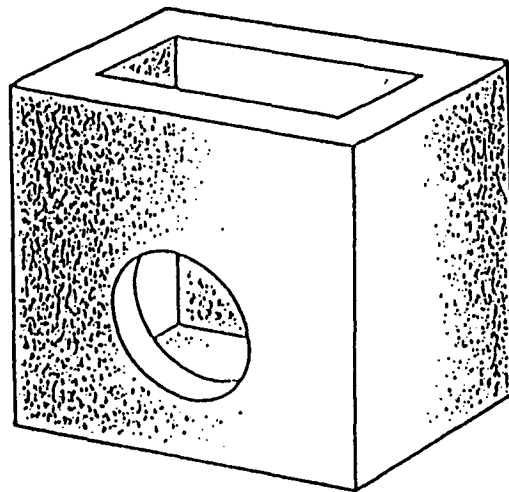
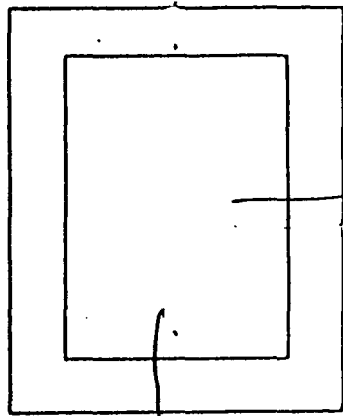


	DATE MADE	DATE SHIPPED
SE		
RISE		
RISE		
COLLAR		
TOP 8"		
USF# 42DC		

GENERAL NOTES	
4000 PSI @ 28 DAYS	
TYPE II CEMENT	
18" Sump	
96-226	

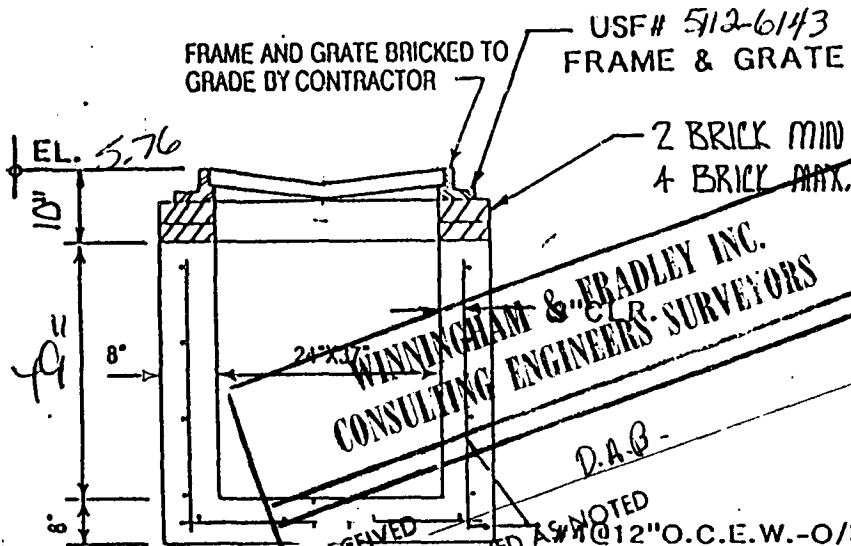
LASER ENGINEERING, INC.
 DATE: 12-29-95
 INITIALS: *NA*

TYPE "C" CATCH BASIN



NO.	16
ELEV.	5.76
INV.	2.35
HT.	3.41
CUT	414
PRICE	+18-10

(49)



FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 512-6143
FRAME & GRATE

2 BRICK MIN
4 BRICK MAX.

WINNINGHAM & BRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

APPROVED AS NOTED

REVISION & RESUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: AB

BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Sump

96-226

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENG'G

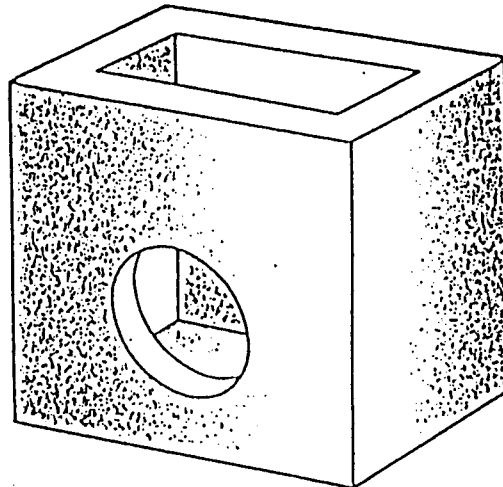
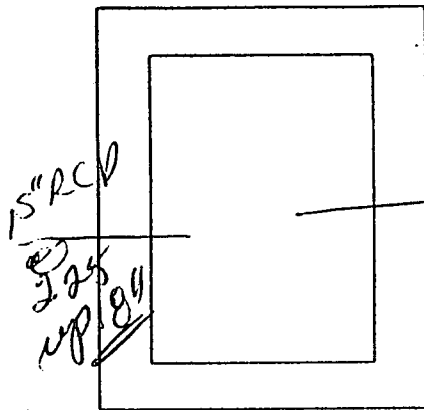
JOB:

Town Gate Village 18

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CURB INLET



NO.	17
ELEV.	5.76
INV.	2.25
HT.	3.51
CUT	42"
PRICE	+18-10 50

FRAME, GRATE & HOOD BRICKED TO GRADE BY CONTRACTOR

USE # 5130-6168
FRAME & GRATE

2 BRICK MIN.
4 BRICK MAX.

ELEV. 5.76

10"
8"
50"

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS
CLB.

#4@12" O.C. E.W. - O/E

RECEIVED D.A.B.
☒ APPROVED AS NOTED
☐ REVISE & RESUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: [Signature]

BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USE # 5130-6168		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

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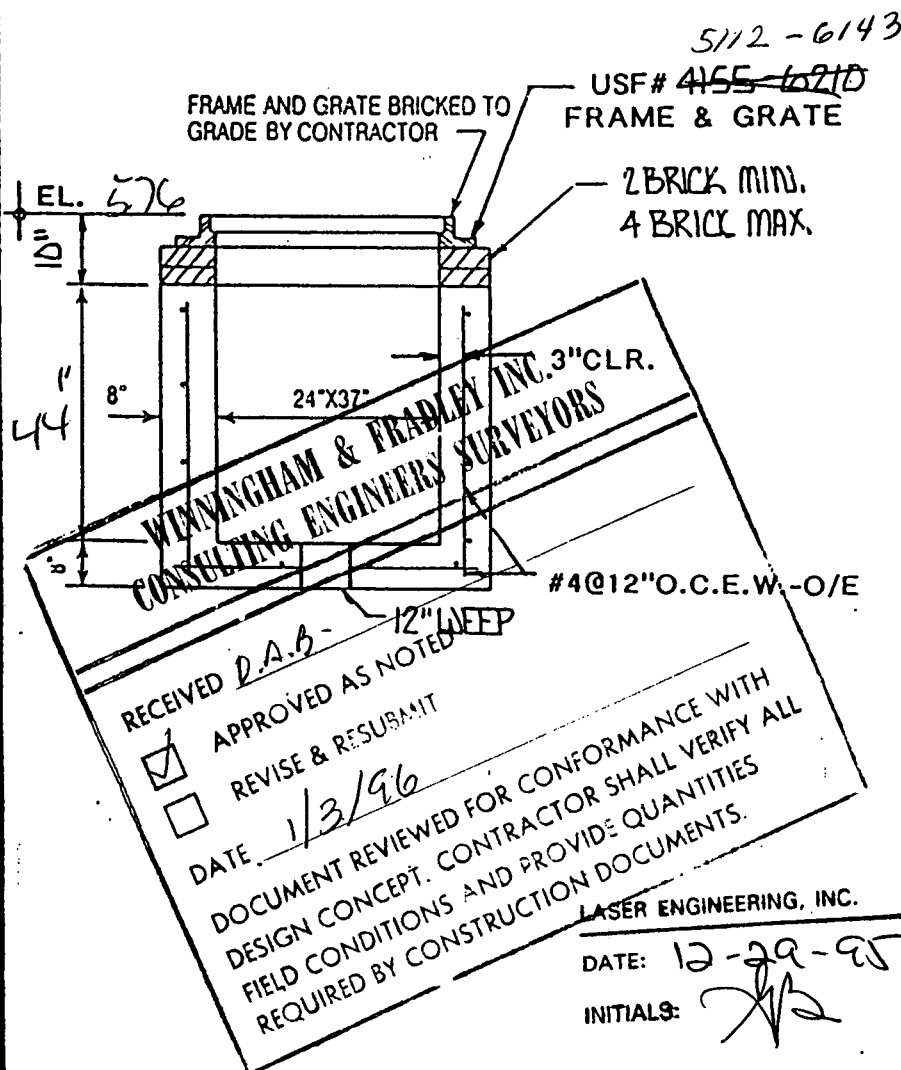
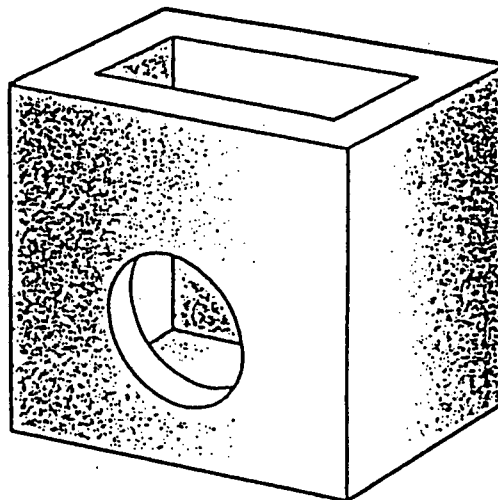
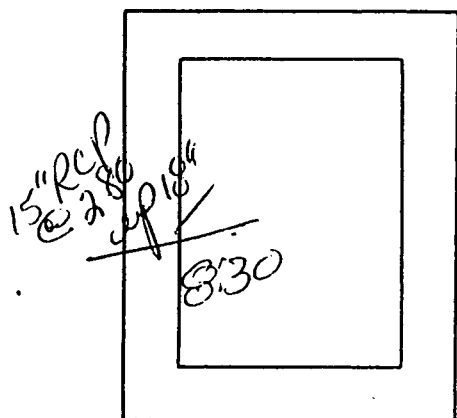
"C" INLET-FRAME & GRATE

CONTRACTOR:
LASER ENGRG

JOB: TOWN GATE
VILLAGE 18

TYPE "C" CATCH BASIN

NO.	19
ELEV.	5.76
INV.	2.80
HT.	2.96
CUT	36"
PRICE	118.10



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF # 4155-6210		

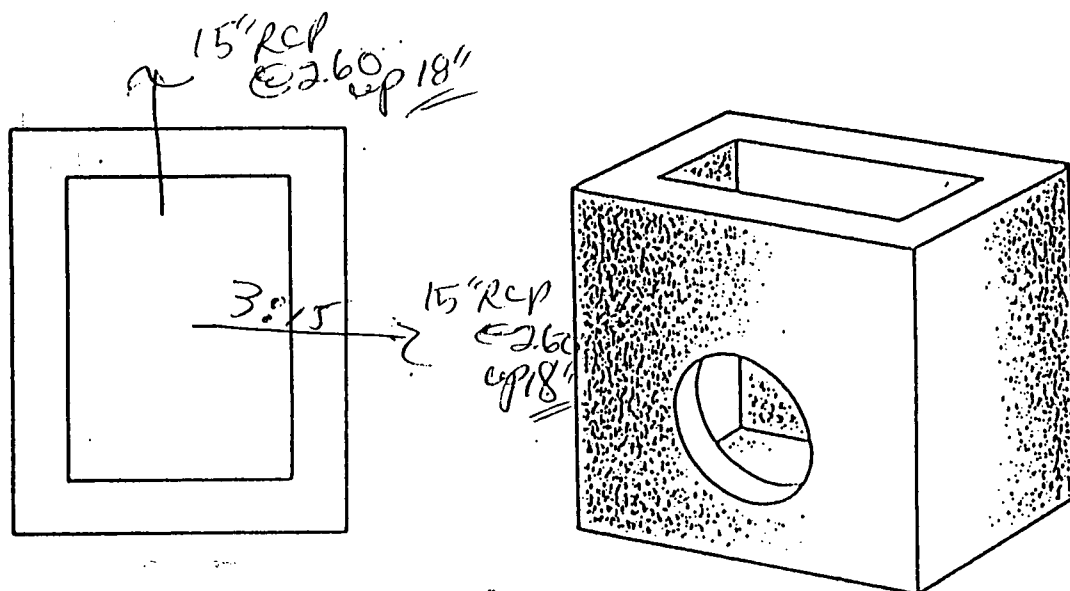
GENERAL NOTES
4000 PSI @ 28 DAYS
TYPE II CEMENT
INLET CONFORMS TO F.D.O.T.
INDEX 232
96-226

"C" INLET-FRAME & GRATE

CONTRACTOR: LASER ENGRG

JOB: TOWN GATE VILLAGE 18

TYPE "C" CATCH BASIN



NO.	20
ELEV.	5.74
INV.	2.60
HT.	3.10
CUT	38"
PRICE	18.70
	76"

FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 512-6143
FRAME & GRATE

2 BRICK MIN
4 BRICK MAX.

EL. 5.74

10"

4"

8"

24" x 36"

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS.

D.A.B.

#4@12" O.C. E.W. - OYE

RECEIVED

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: X/B

BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF# 512-6143		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

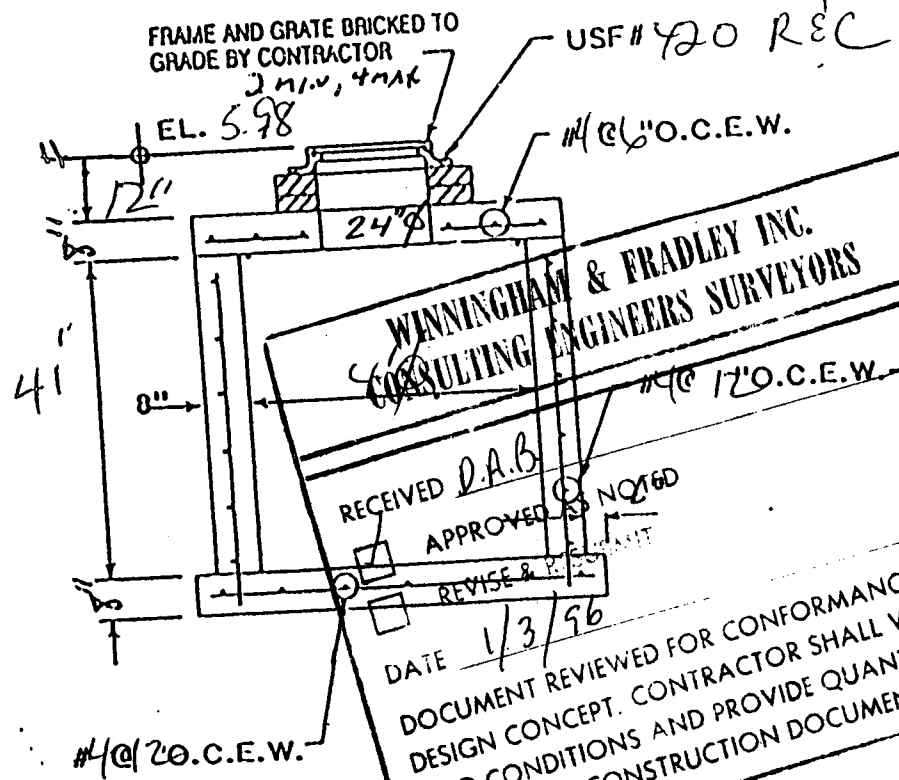
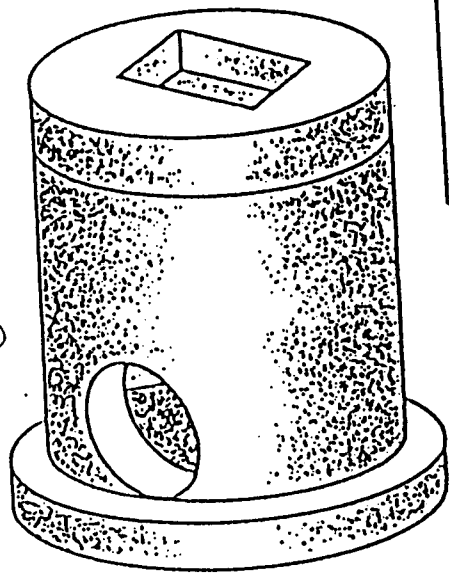
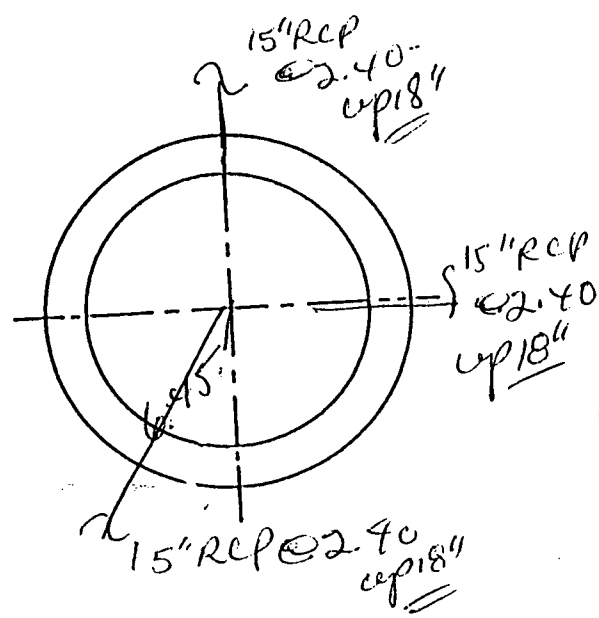
96-226

"C" INLET-FRAME & GRATE

CONTRACTOR:
LASER ENG'G

JOB: TOWNGATE
VILLAGE 18

NO.	21
ELEV.	5.98
INV.	2.70
HT.	3.58
CUT	43"
PRICE	118-20



WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED D.A.B.
APPROVED [initials]
REVISE & RE-SUBMIT [initials]

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

	DATE MADE	DATE SHIPPED
BASE		
RISE A		
RISE B		
COLLAR		
TCP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

96-226

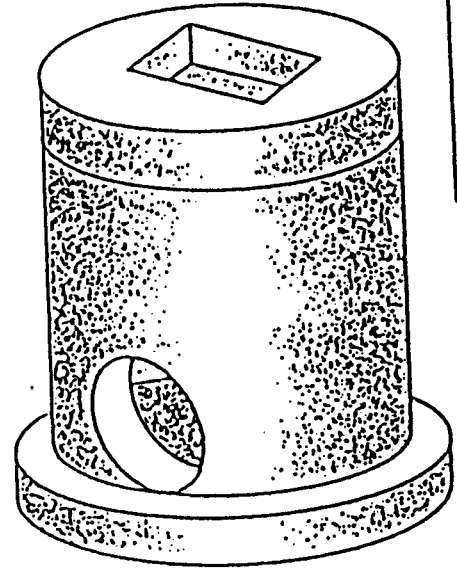
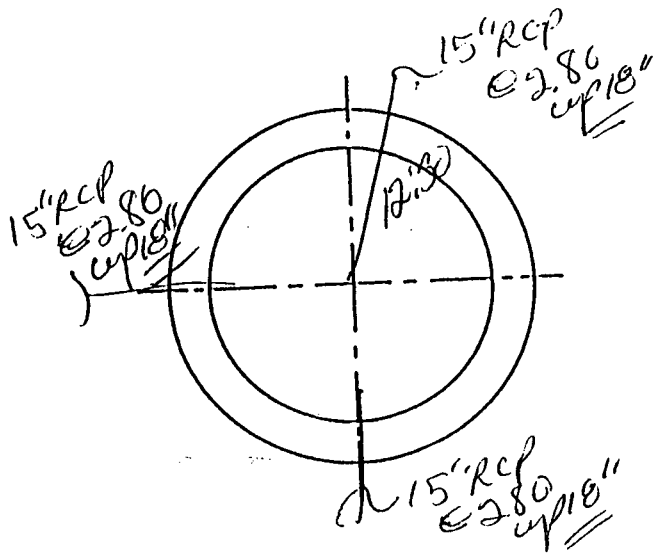
LASER ENGINEERING, INC.
DATE: 12-29-95
INITIALS: [signature]

"I.D.-STORM INLET"	CONTRACTOR: LASER ENGRG	JOB: TOWNGATE VILLAGE 18
--------------------	----------------------------	--------------------------------

P.R.B.

NO.	22
ELEV.	5.76
INV.	2.25
HT.	3.51
CUT	42'
PRICE	+18-18

42



FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR
2 min, 4 max

USF# 5112-6173

EL. 5.76

14' @ 12" O.C.E.W.

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS & SURVEYORS

D.A.B.

RECEIVED
APPROVED AS NOTED
REVISE & RESUBMIT
DATE 12/20/95

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.
DATE: 12-29-95
INITIALS: JAB

BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TCP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18 Semp

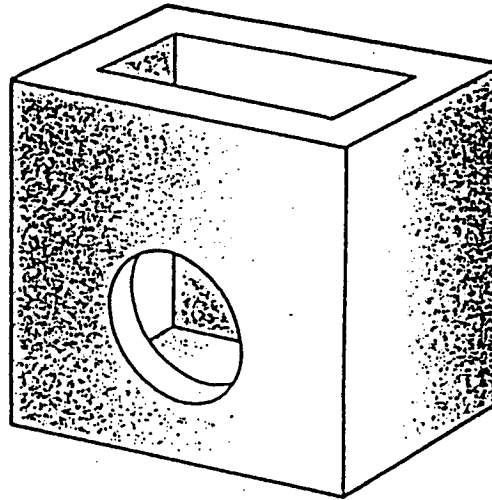
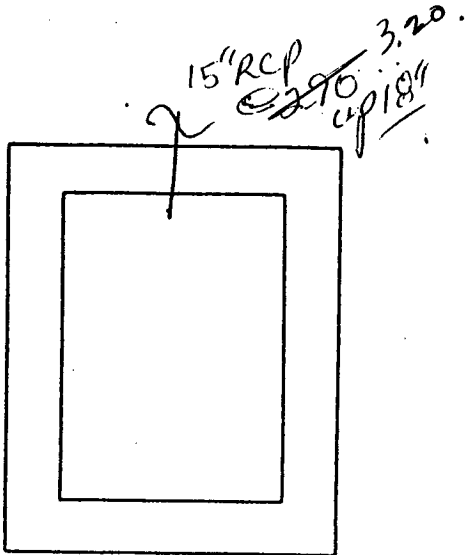
96-226

"I.D.-STORM INLET"

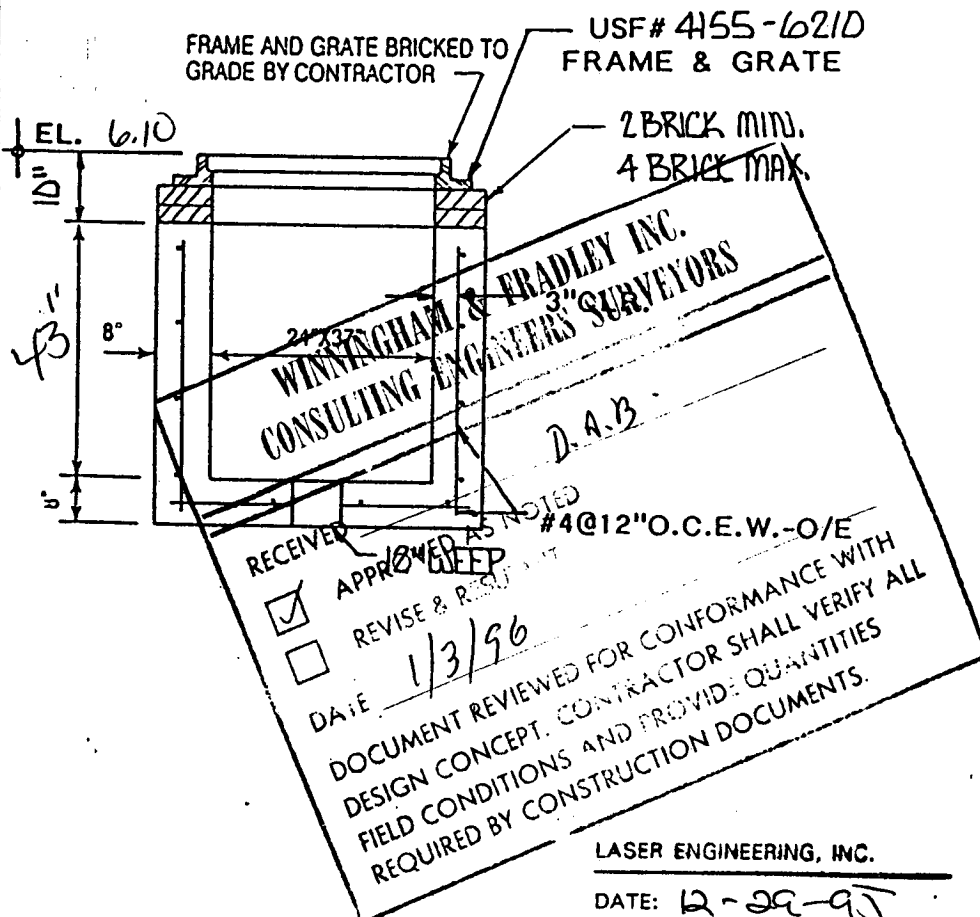
CONTRACTOR:
LASER ENGRG

JOB: TOWNGATE
VILLAGE 18

TYPE "C" CATCH BASIN



NO.	24
ELEV.	6.10
INV.	3.20
HT.	2.90
CUT	35"
PRICE	+18-10 43



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF # 4155-6210		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

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96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: *[Signature]*

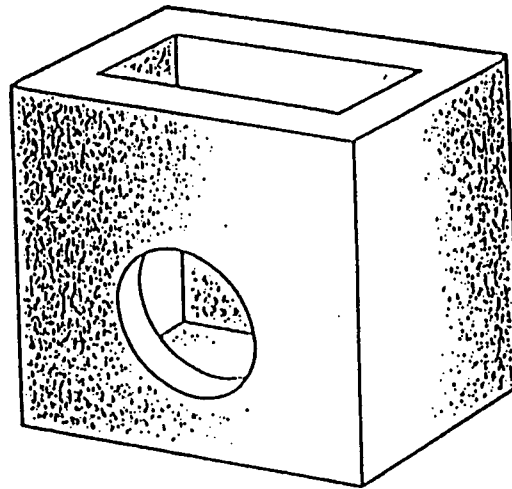
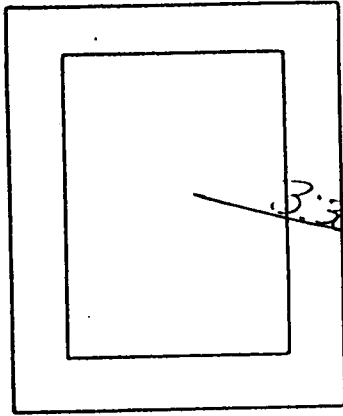
"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGRG

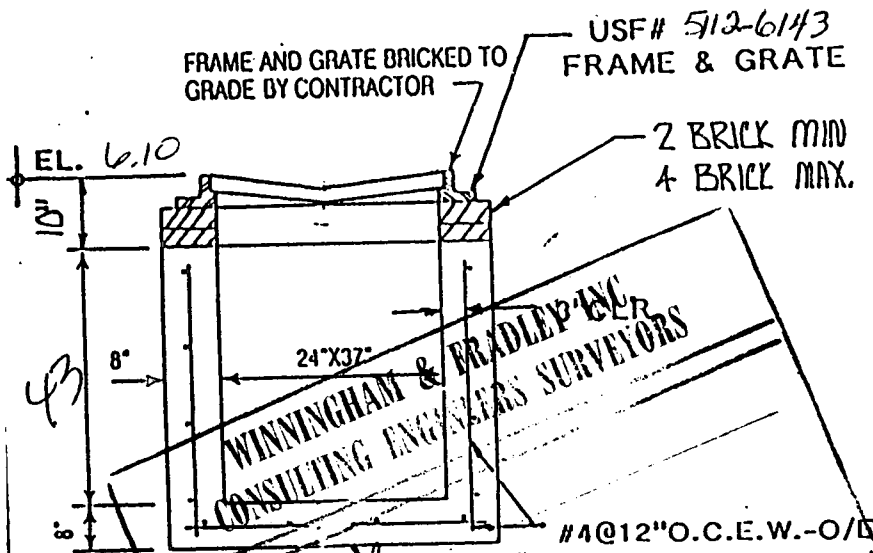
JOB: TOWN GATE
VILLAGE 18

TYPE "C" CATCH BASIN



NO.	25
ELEV.	6.10
INV.	3.20
HT.	2.90
CUT	35"
PRICE	+18-10

43"



	DATE MADE	DATE SHIPPED
BASE		
RISER		
RISER		
COLLAR		
TOP		
USF # 512-6143		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

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96-226

RECEIVED D.A.B.
☒ APPROVED AS NOTED
☐ REVISE & RE-SUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
 DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
 FIELD CONDITIONS AND PROVIDE QUANTITIES
 REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: XJB

"C" INLET-FRAME & GRATE

CONTRACTOR:

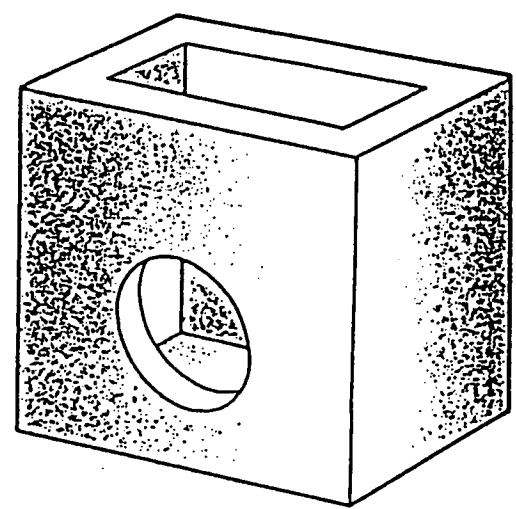
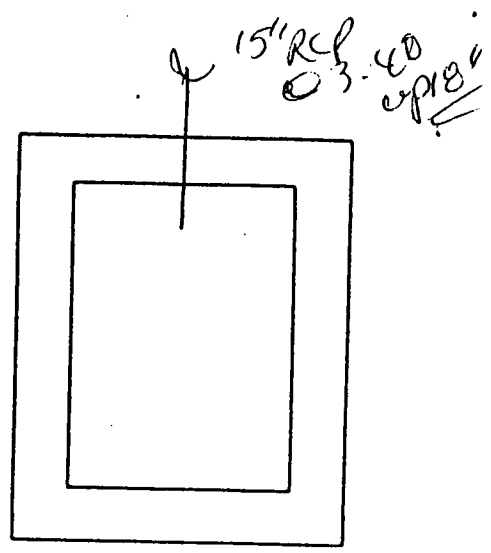
LASER ENGINEERING

JOB: TOWNGATE
 VILLAGE 18

CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	26
ELEV.	6.40
INV.	3.40
HT.	3.00
CUT	36"
PRICE	118.40 44

FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 4155-6210
FRAME & GRATE

2 BRICK MIN.
4 BRICK MAX.

EL. 6.40

10"

4"

8"

WINNINGHAM & FRABLY INC.
CONSULTING ENGINEERS SURVEYORS
C.I.R.

D.A.B.

#1 @ 12" O.C. E.T.W. - OYE

RECEIVED

☒ APPROVED AS SHOWN

☐ REVISE & R

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF# 4155-6210		

GENERAL NOTES
4000 PSI @ 28 DAYS
TYPE II CEMENT
INLET CONFORMS TO F.D.O.T.
INDEX 232
96-226

LASER ENGINEERING, INC.

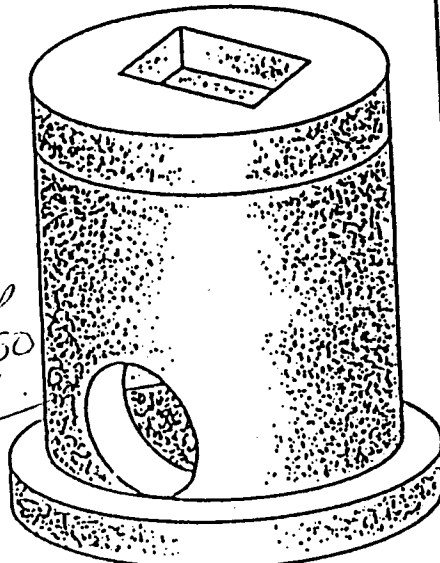
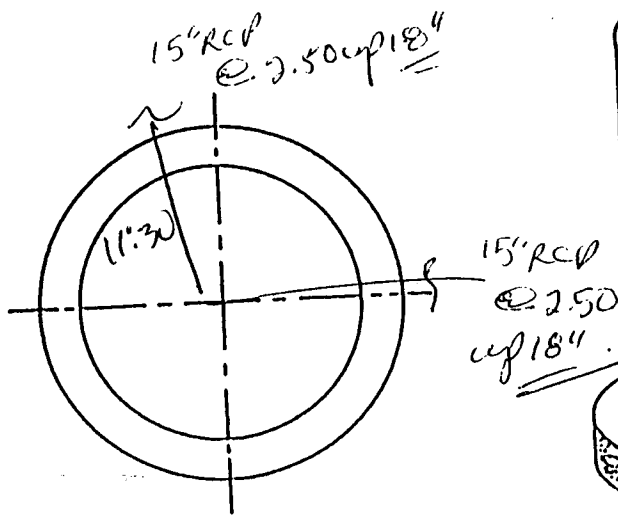
DATE: 12-29-95

INITIALS: XAB

"C" INLET-FRAME & GRATE	CONTRACTOR: LASER ENGRG	JOB: TOWN GATE VILLAGE 18
-------------------------	-------------------------	---------------------------

NO.	27
ELEV.	5.90
HW.	2.50
HT.	3.40
CUT	41"
PRICE	+18-20

39"



FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 420

EL. 5.90

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED
APPROVED AS NOTED
REVISE & SUBMIT

DATE 1/31/96
DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

BASE	DATE MADE	DATE SHIPPED
RISEA		
RISEA		
COLLA		
TCP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" Sump

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

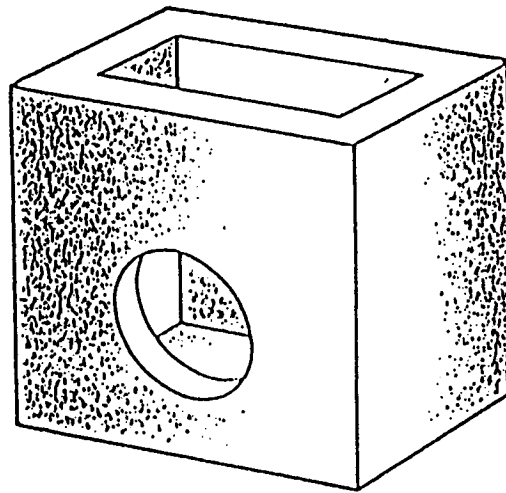
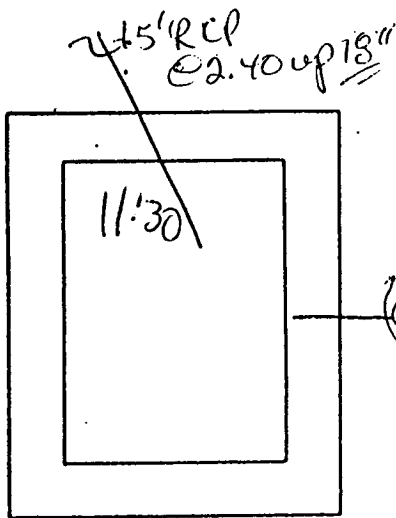
INITIALS: *[Signature]*

"I.D.-STORM INLET"

CONTRACTOR:
LASER ENGRG

JOB: TOWNGATE
VILLAGE 18

TYPE "C" CATCH BASIN



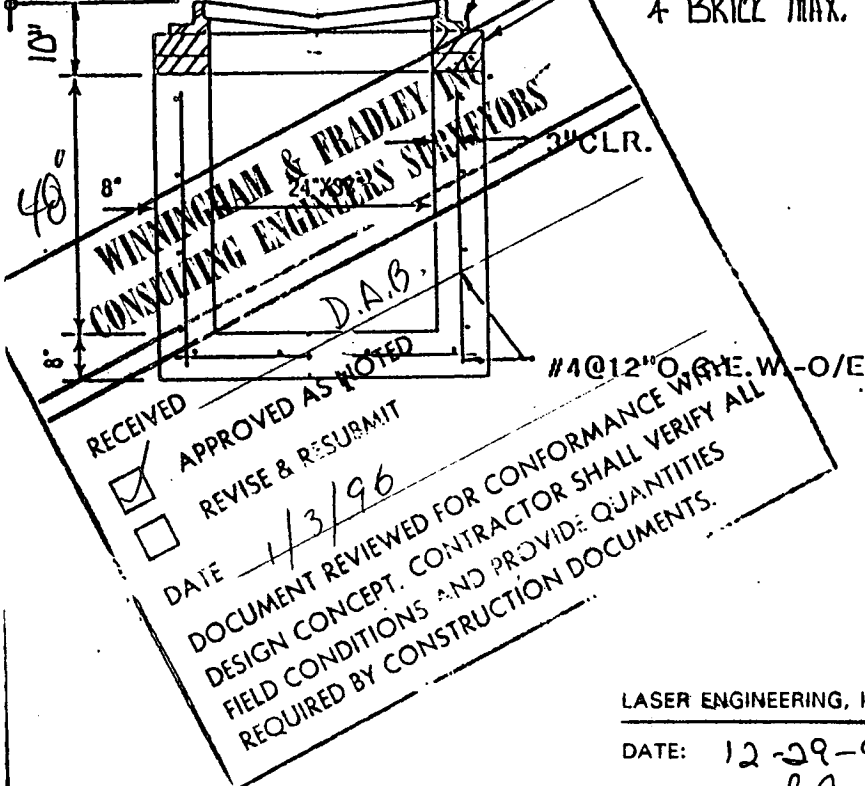
NO.	28
ELEV.	5.76
IRV.	2.40
HT.	3.36
CUT	40"
PRICE	118-10 48

FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR

USF# 512-6143
FRAME & GRATE

2 BRICK MIN
4 BRICK MAX.

EL. 5.76



	DATE MADE	DATE SHIPPED
BASE		
RISE		
RISE		
COLLAR		
TOP		
USF# 5106-6149		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Sump

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: AB

"C" INLET-FRAME & GRATE

CONTRACTOR:

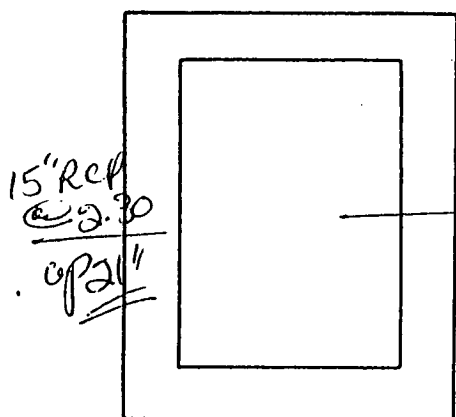
LASEX ENGINEERING

JOB: TOWNGATE
VILLAGE 18

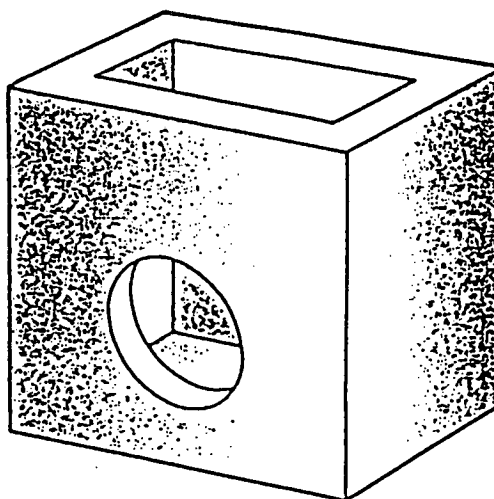
TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN

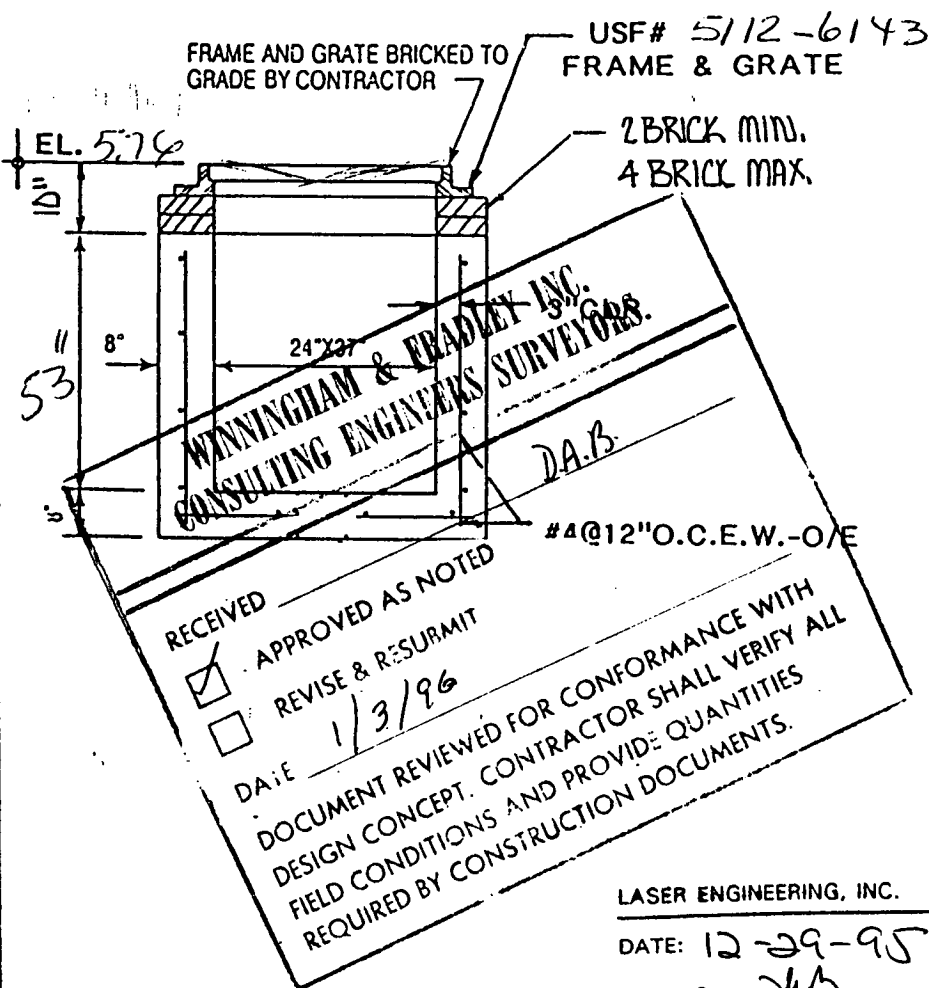


18" RCP 2.05
C 2.56
P 18"



NO.	29
ELEV.	5.76
INV.	2.05
HT.	3.77
CUT	45"
PRICE	418-10

53"



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF # 4155-6210		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: X/B

"C" INLET-FRAME & GRATE

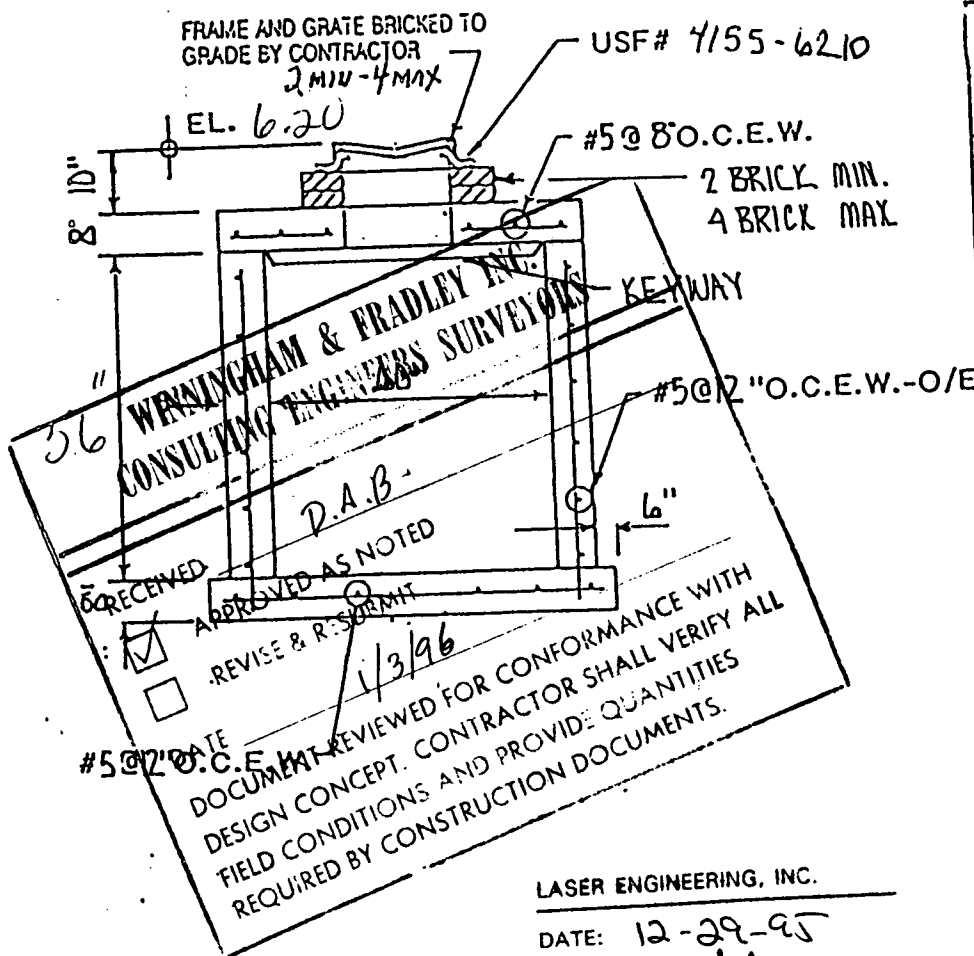
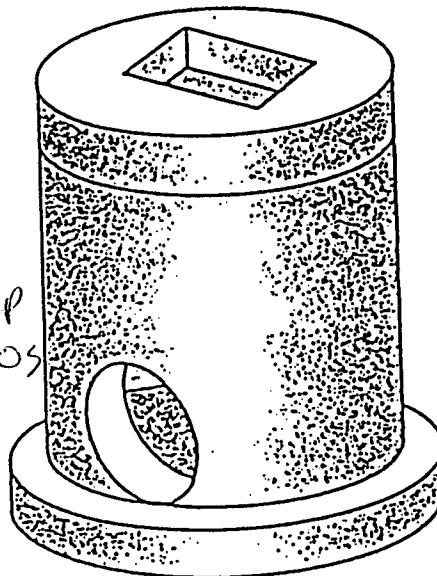
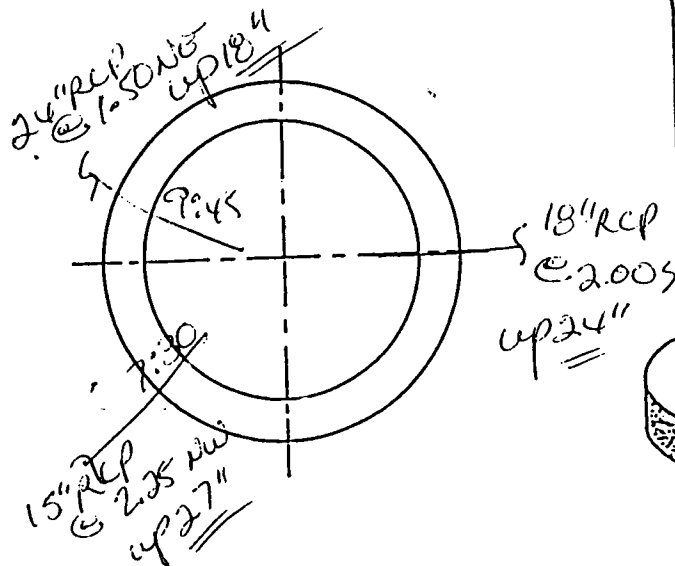
CONTRACTOR:

LASER ENGRG

JOB: TOWN GATE
VILLAGE 18

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	30
ELEV.	6.20
INV.	1.50
HT.	4.7
CUT	56"
PRICE	118-18 56"



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP 8"		
USF # 5105-114		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" Samp

96-226

LASER ENGINEERING, INC.

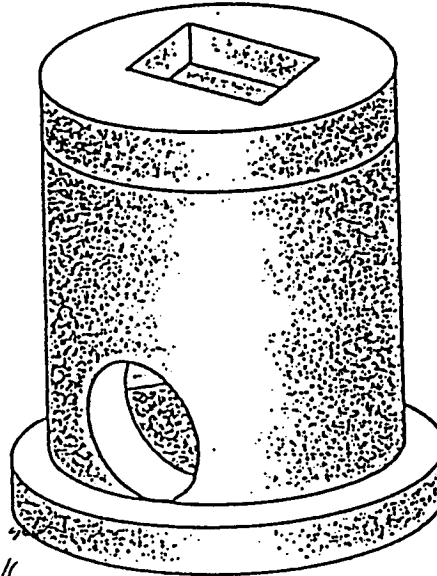
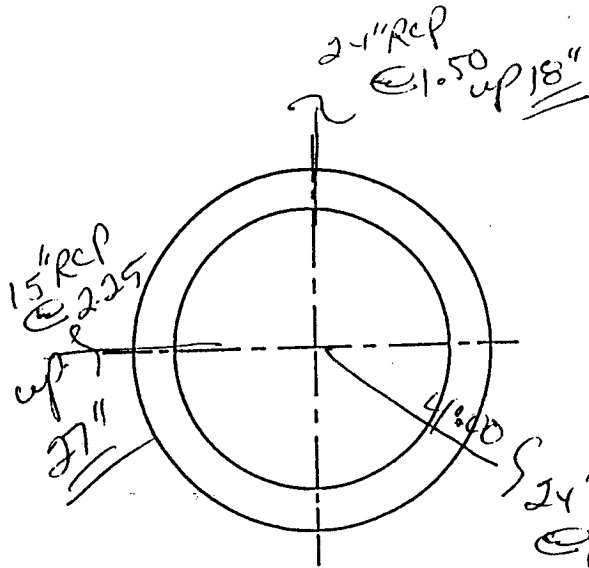
DATE: 12-29-95

INITIALS: *MA*

61" I.D.-STORM INLET

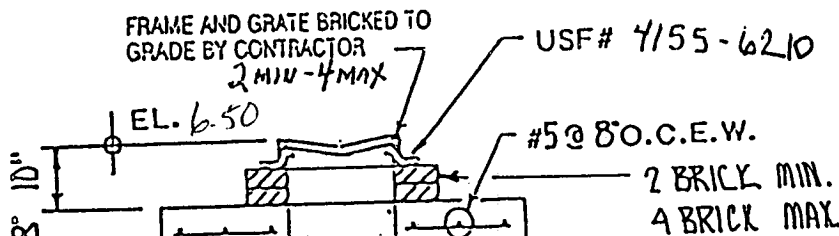
CONTRACTOR:
LASER ENGRG

JOB:
TOWNGATE
VILLAGE 18



NO.	31
ELEV.	6.50
INV.	1.50
HT.	5.00
CUT	60"
PRICE	718-18

60



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TCP 8"		
USF # 7155-6210		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" Samp

96-226

WINNIGRAM & BRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED
APPROVED AS NOTED
REVISE & RESUBMIT
#5 @ 12" O.C.E.W. 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

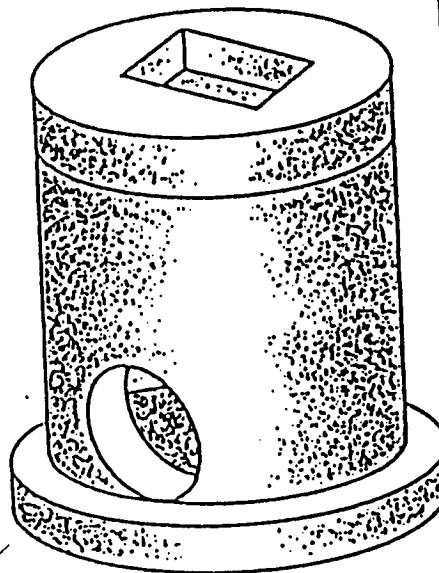
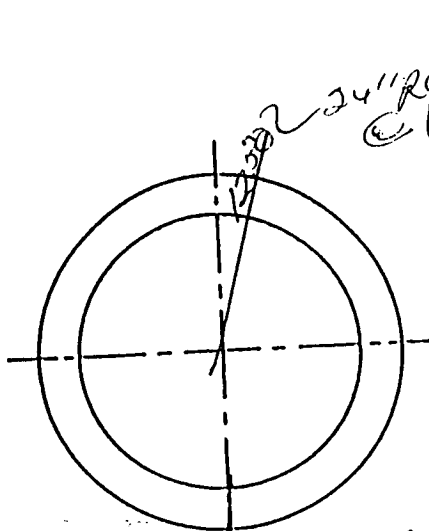
DATE: 12-29-95
INITIALS: AB

60" I.D.-STORM INLET

CONTRACTOR:
LASER ENGRG

JOB:
TOWNGATE
VILLAGE 18

NO.	32
ELEV.	5.76
INV.	1.50
HT.	4.26
CUT	51"
PRICE	118.60 514



FRAME AND GRATE BRICKED TO
GRADE BY CONTRACTOR

USF # 5112-6143

2 1/4" x 4 1/4"

EL. 5.76

11/4" O.C.E.W.

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

APPROVED AS NOTED

REVISE & RESUBMIT

DATE 1/3/96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: *AB*

BASE	DATE MADE	DATE SHIPPED
ASER		
ASER		
COLLAR		
TCP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" Smp

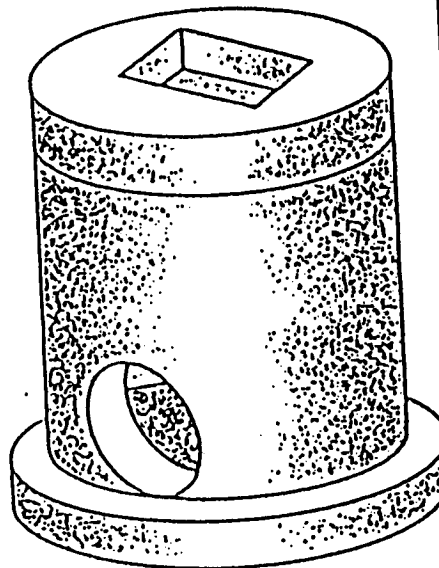
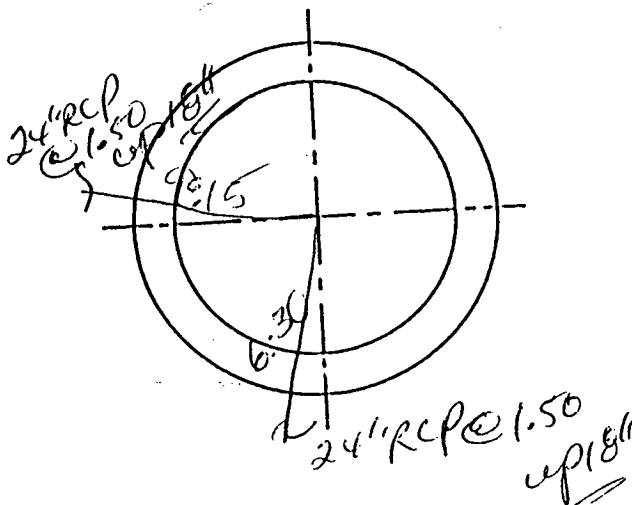
96-226

"I.D.-STORM INLET

CONTRACTOR:
LASER ENGRG

JOB: TOWNGATE
VILLAGE 18

NO.	33
ELEV.	5.76
INV.	1.50
HT.	4.26
CUT	5/1
PRICE	1187.18



FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR
2 MIN. MAX

USF# 5112-6143

EL. 5.76

#5 @ 12" O.C.E.W.

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED
APPROVED AS NOTED
REVISE & RESUBMIT

DATE
DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: Y/B

	DATE MADE	DATE SHIPPED
BASE		
RISE		
RISE		
COLLAR		
TCP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" Simp.

96-226

"I.D.-STORM INLET"

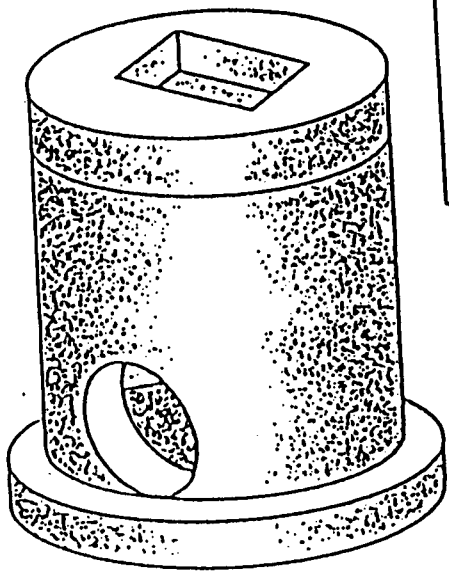
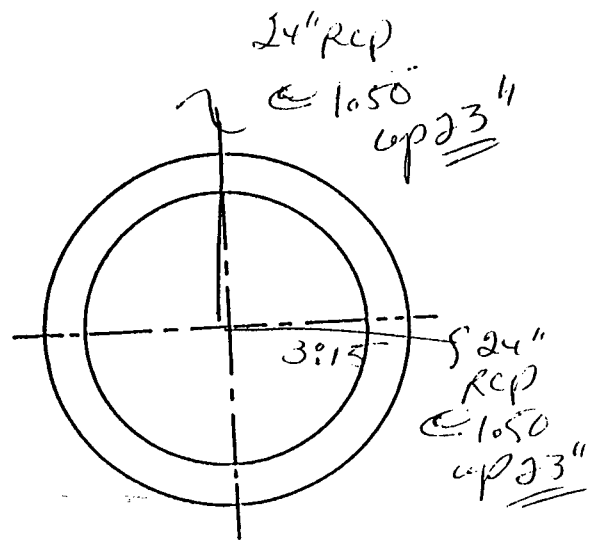
CONTRACTOR:
LASER ENGRG

JOB: TOWNGATE
VILLAGE 18

P.R.B

NO.	34
ELEV.	6.00
INV.	1.50
HT.	4.50
CUT	54"
PRICE	723-20

57"



FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR 2 min, 4 max

EL. 6.00

115F# 1/20 STORM

115F# 6" O.C.E.W.

WINNINGHAM & RADLEY INC. CONSULTING ENGINEERS SURVEYORS

D.A.B.

115F# 12" O.C.E.W.-O/E

57"

RECEIVED

APPROVED AS NOTED

REVISE 3 RESUBMIT

1/3/96

DATE

DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS.

#5@20.C.F.

	DATE MADE	DATE SHIPPED
BASE		
RISE		
RISE		
COLLAR		
TCP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

23" Sump

96-226

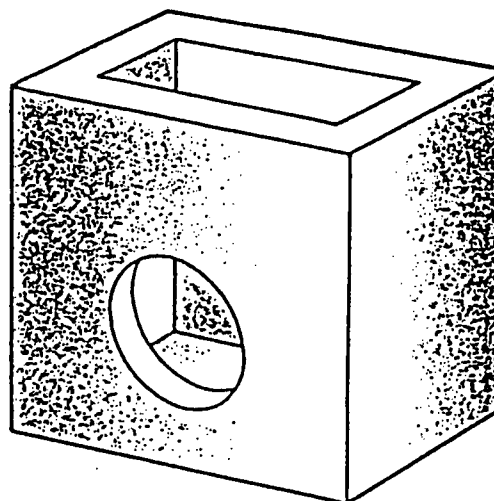
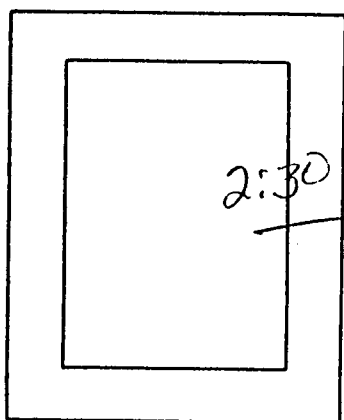
LASER ENGINEERING, INC.

DATE: 12-29-95

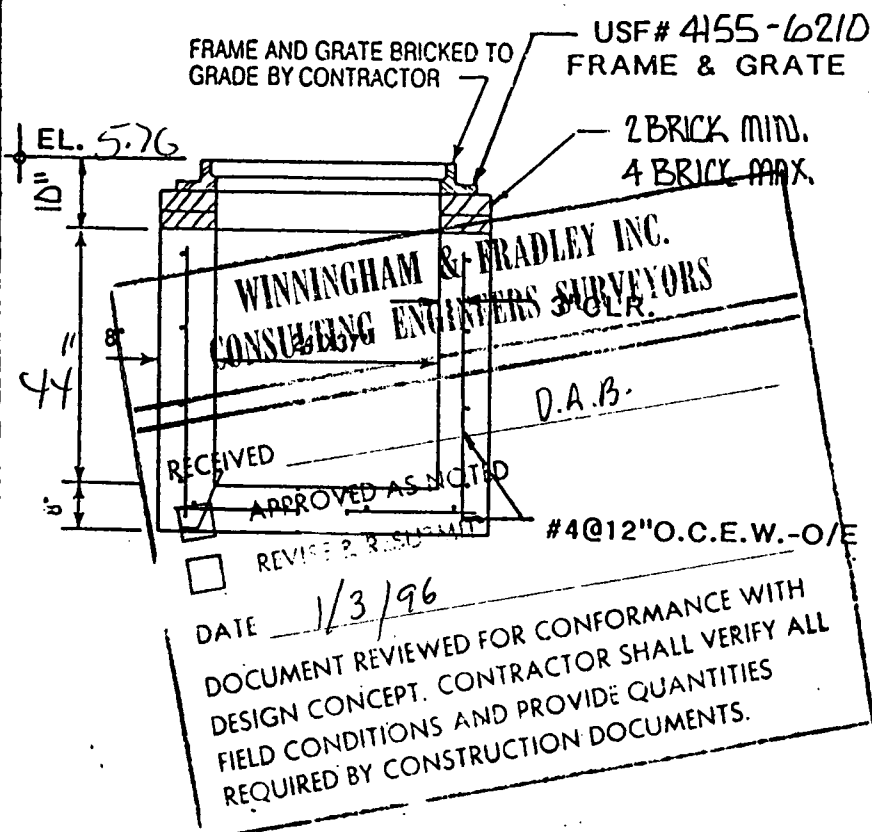
INITIALS: YB

"I.D.-STORM INLET"	CONTRACTOR: LASER ENGRG	JOB: TOWNGATE VILLAGE 18
--------------------	-------------------------	--------------------------

TYPE "C" CATCH BASIN



NO.	36
ELEV.	5.76
INV.	2.80
HT.	2.96
CUT	36"
PRICE	418.50 44



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF # 4155-6210		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Semp

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

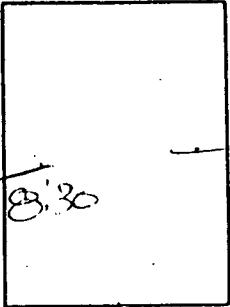
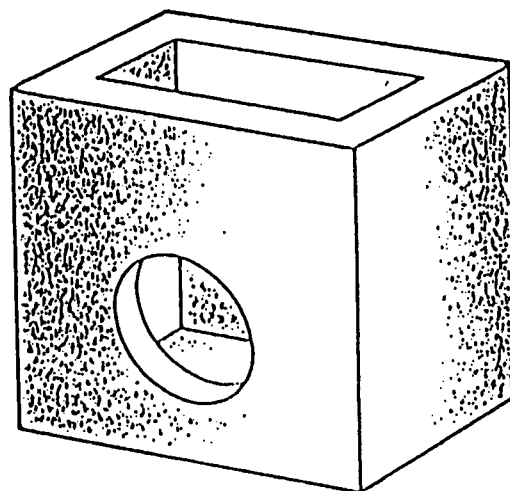
INITIALS: MB

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGRG

JOB: TOWNGATE
VILLAGE 18

A large rectangular box, likely for a drawing or photograph. On the left side of the box, the handwritten text "B. 20" is visible. A horizontal line extends from the left edge of the box, passing through the text.

FRAME AND GRATE BRICKED TO
GRADE BY CONTRACTOR 7

- USF# 512-6143
FRAME & GRATE

WINNINGHAM & FRADLEY 2 BRICK MIN
CONSULTING ENGINEERS SURVEYORS 4 BRICK MAX

RECEIVED 24-X37

APPROVED AS NOTED

REVIEW & DISCUSSION

DATE _____ #1012 "O.G.S. WITH/E
DOCUMENT REVIEWED FOR CONFORMANCE WITH/E
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USE # 5106-6197		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Serrap

96-226

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS:

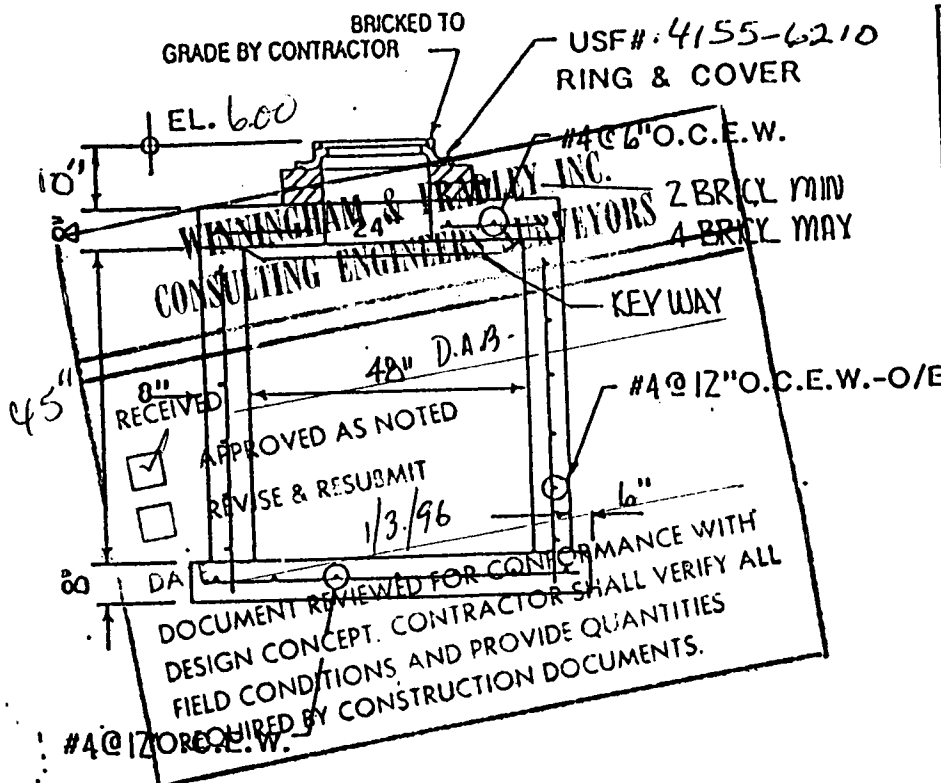
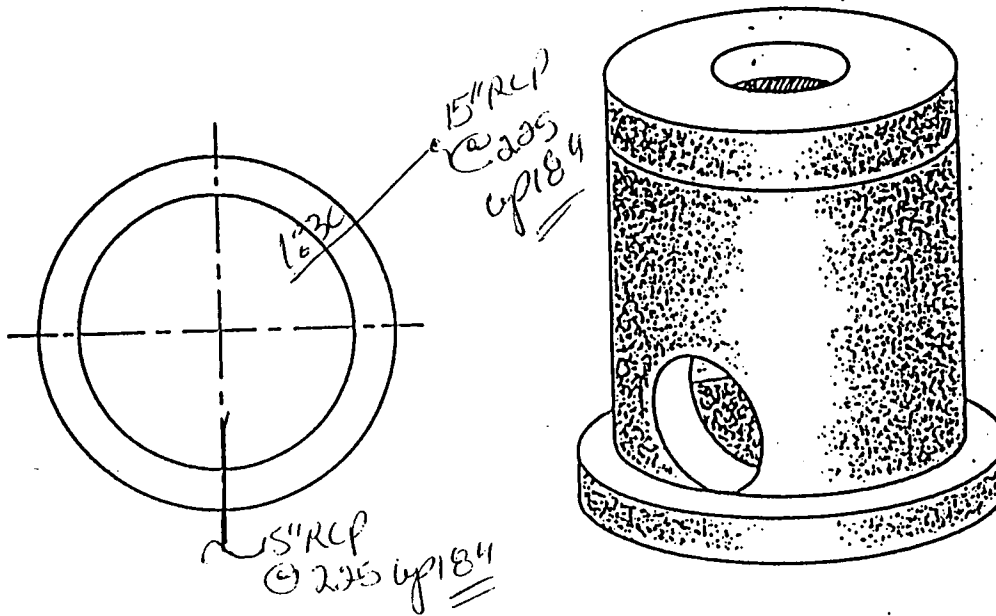
"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGLG

JOB: TOWNGATE
VILLAGE 18

NO.	38
ELEV.	6.00
INV.	2.25
HT.	3.75
CUT	45"
FACE	18-18 45"



BASE	DATE MADE	DATE SHIPPED
RISEA		
RISEA		
COLLAR		
TOP 8"		
USF # 47DC		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: *LB*

96-226

48" I.D.-STORM

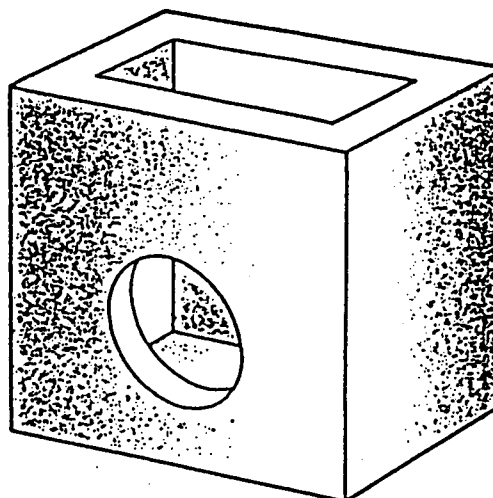
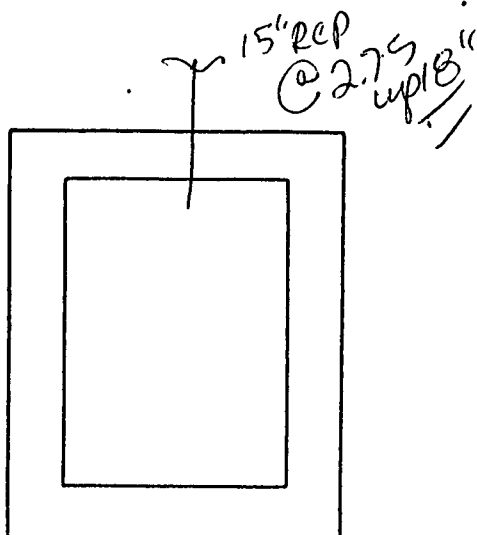
CONTRACTOR:
LASER ENGRG

JOB: TOWN GATE
VILLAGE 18

THE COUNTY CONCRETE PRODUCTS

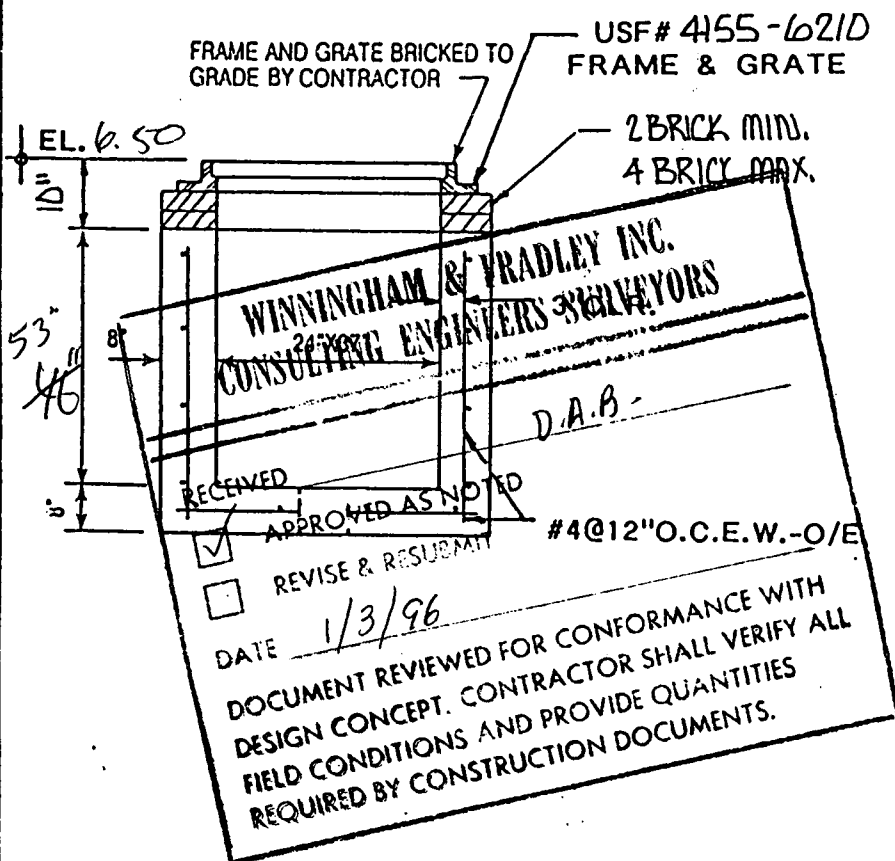
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	39
ELEV.	6.50
INV.	2.75
3.75	3.16
HT.	38"
45"	+18-10
CUT	
PRICE	46

53"



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF # 4155-6210		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" Sump

96-226

LASER ENGINEERING, INC.

DATE: 12-22-95

INITIALS: YB

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGRG

JOB:

Town Gate Village 18

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	40
ELEV.	7.65
INV.	(-) 2.65
HT.	10.30
CUT	124"
PRICE	+ 18-20

172.

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

D.A.B.

RECEIVED

APPROVED AS NOTED

2

APPROVE
REVISE & RESUBMIT
1/19/6

DATE

DATE 11/1/78
DOCUMENT REVIEWED BY 11/1/78
SIGN CONCEPT. CO. 11/1/78
TIONS 11/1/78

DESIGN CONDITIONS
70°F, 60% RH
FIELD MEASUREMENTS
PERFORMED BY CO

FIELD
REQUIRED BY

USF# 420.C R & C
FRAME & GRATE BRICKED TO
GRADE BY CONTRACTOR 7

#606" O.C.E.W.
LASER ENGINEERING, INC.

DATE: 12-29-95

INITIALS: 

BASE		DATE MADE	DATE SHIPPED
RISE	FOR CONFORMANCE WITH CONTRACTOR SHALL VERIFY ALL AND PROVIDE QUANTITIES INSTRUCTION DOCUMENTS.		
RISE			
AND			
TOP			
USE			

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

CONFORMS TO F.D.O.T.

INDEXES 200 & 201

96-226

"J"BTM.

CONTRACTOR:
LASER ENGINE

JOB: Town Gate
Village 18

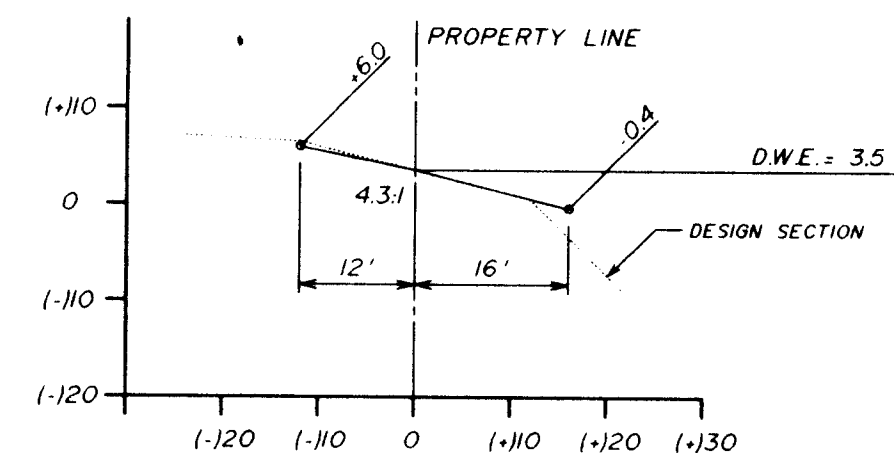
Category:

Paving & Drainage

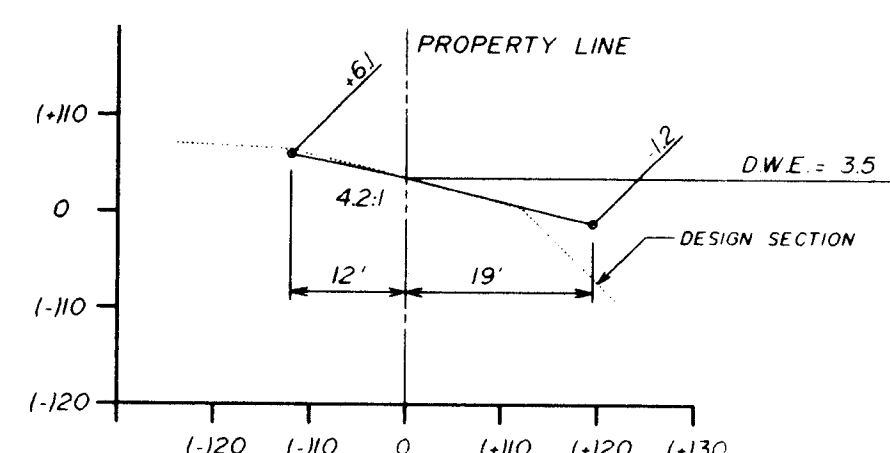
Doc Type:

Plans & As-builts

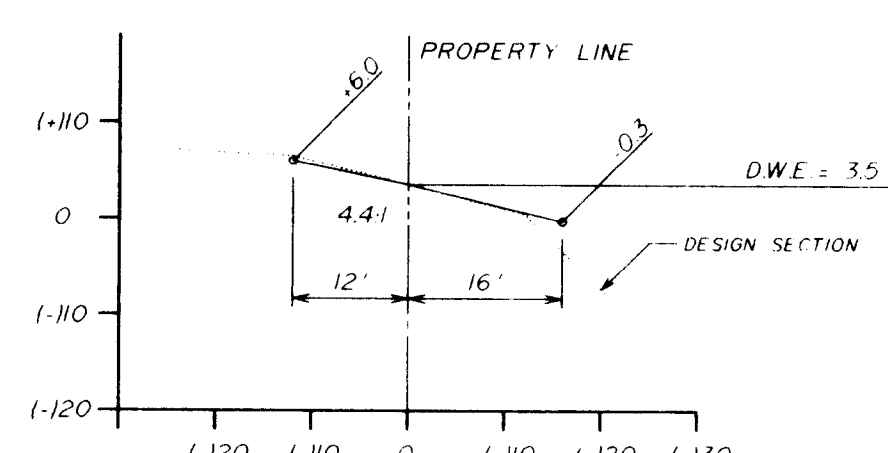
SOUTH BROWARD DRAINAGE DISTRICT
APPROVED
AS - BUILT
BY: *N. J. Hul* DATE: 9/1/98



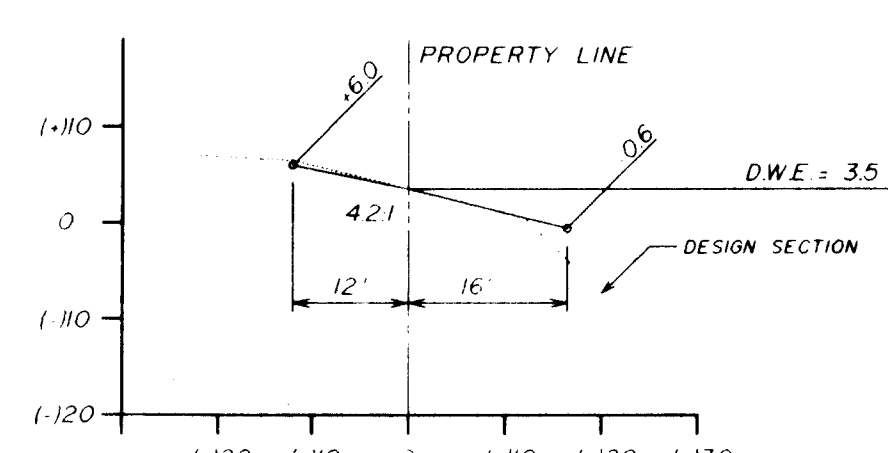
SECTION 0+00



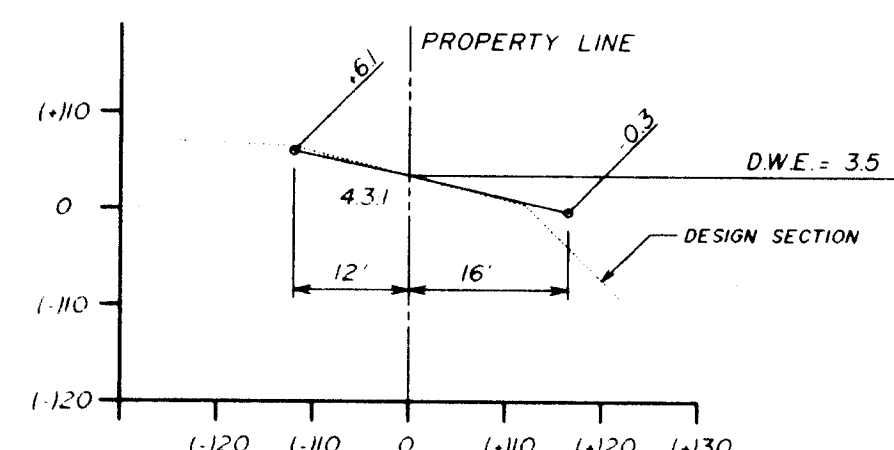
SECTION 1+00



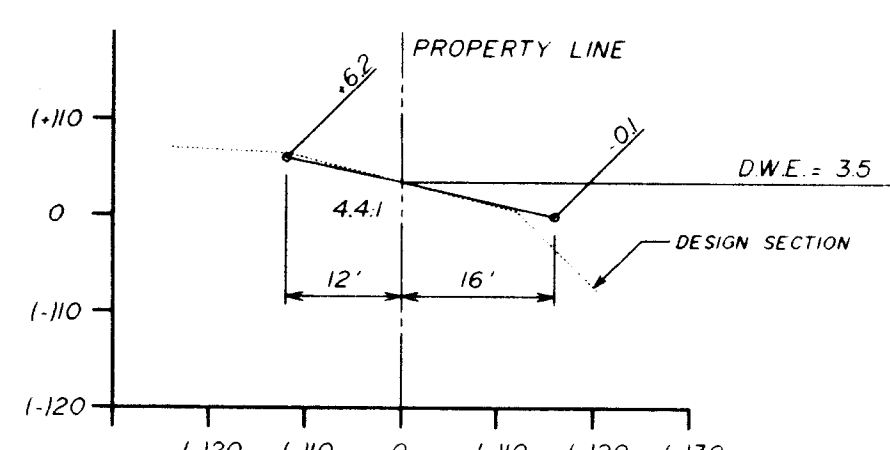
SECTION 2+00



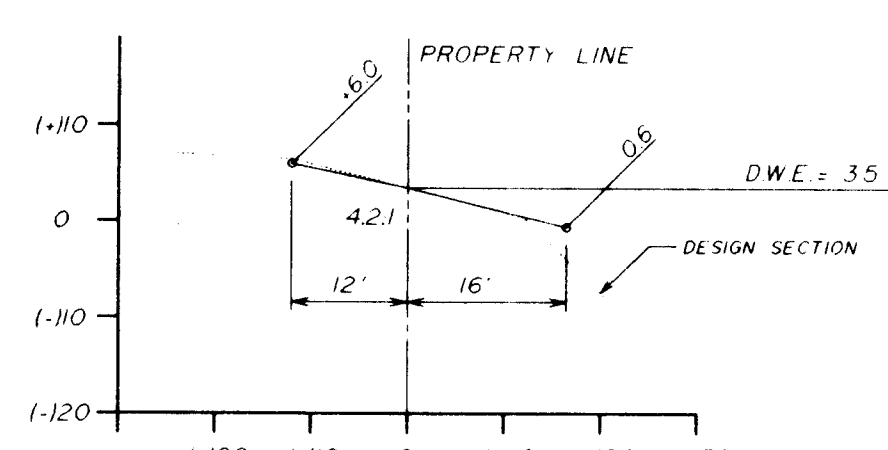
SECTION 3+00



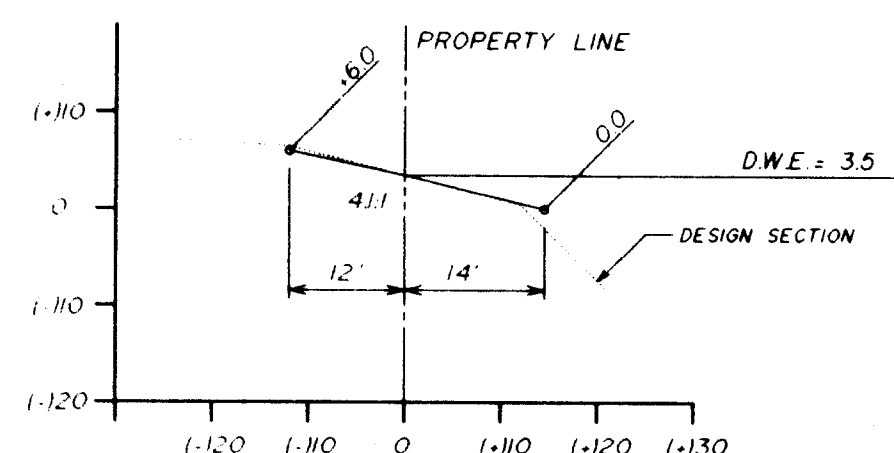
SECTION 4+00



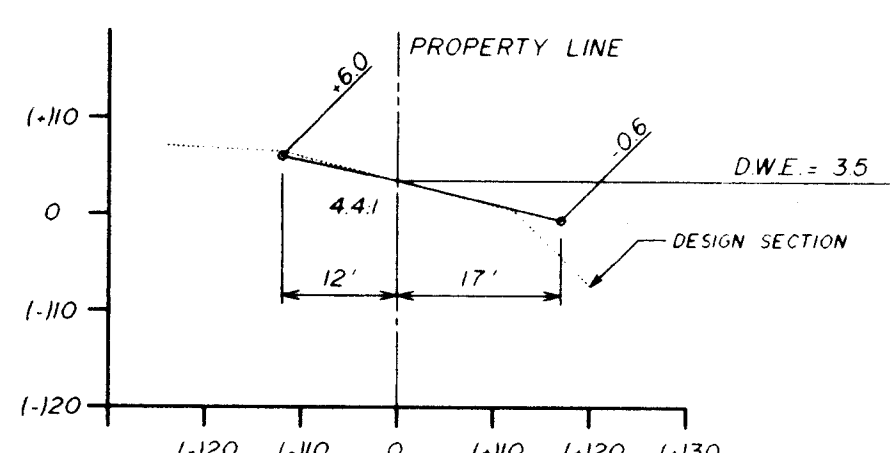
SECTION 5+00



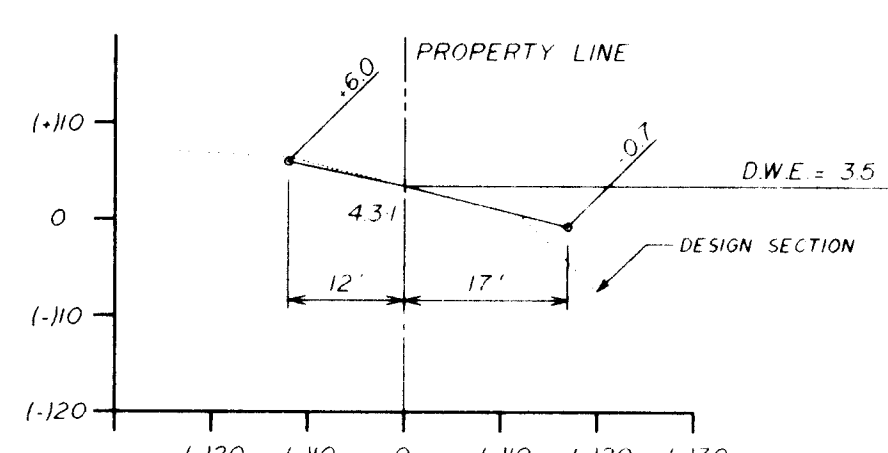
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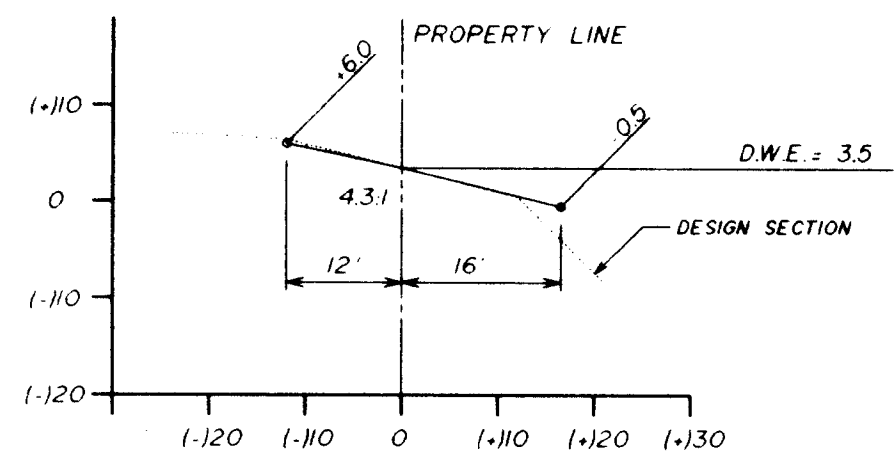
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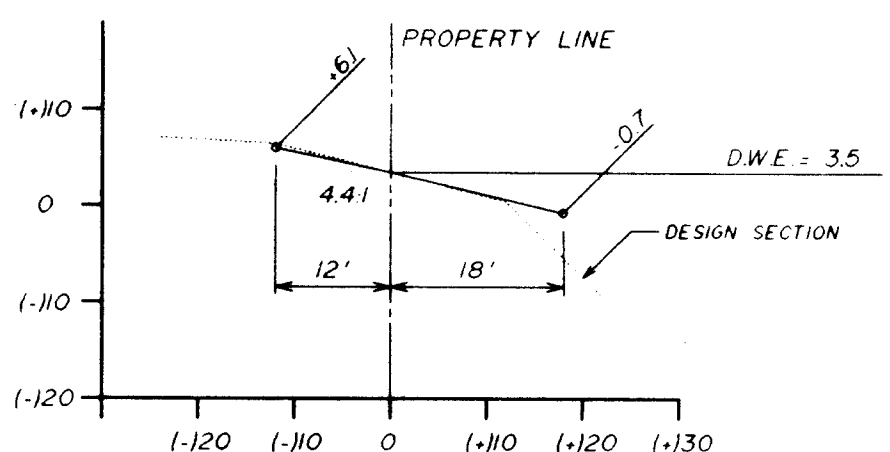
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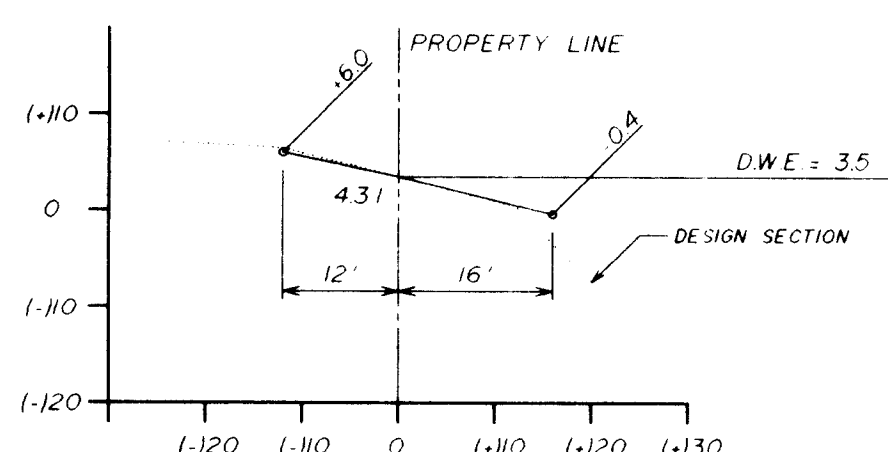
SECTION 9+00



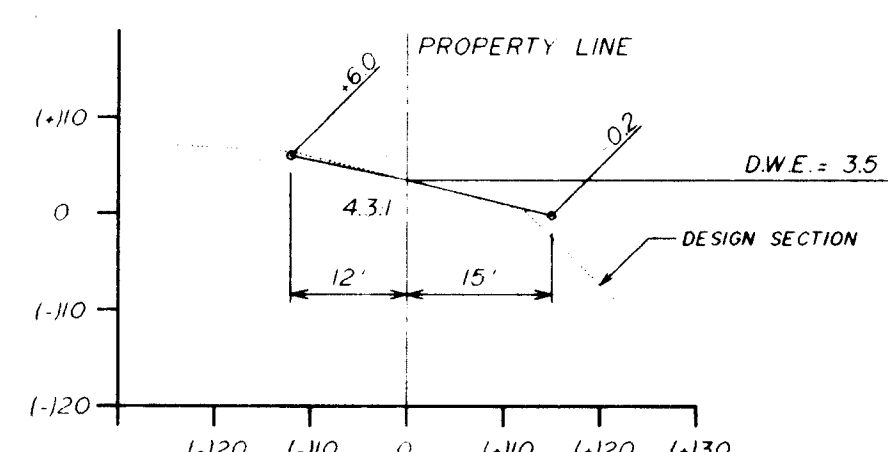
SECTION 10+00



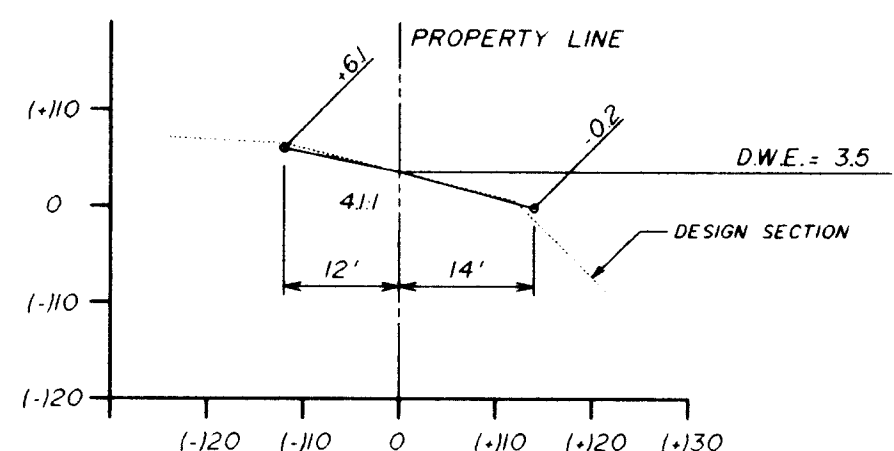
SECTION 10+99.67



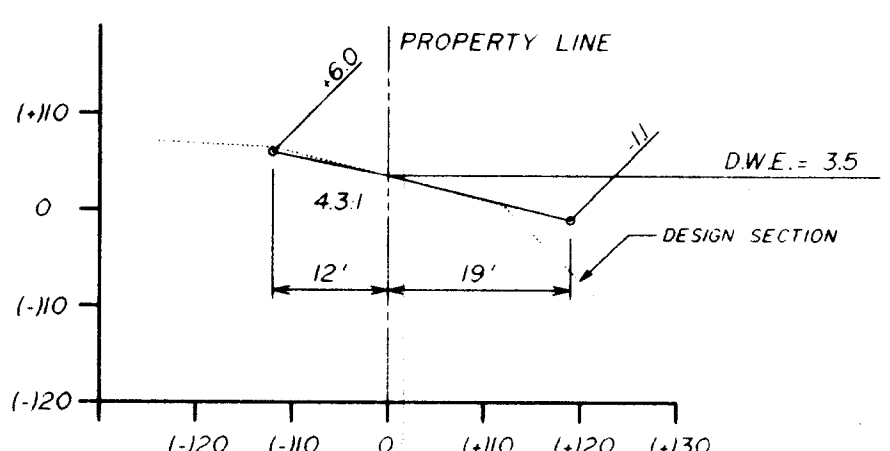
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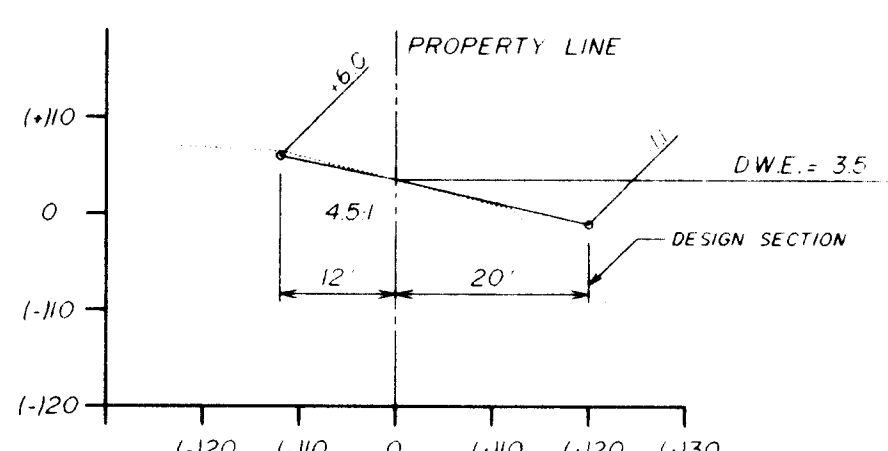
SECTION 13+00



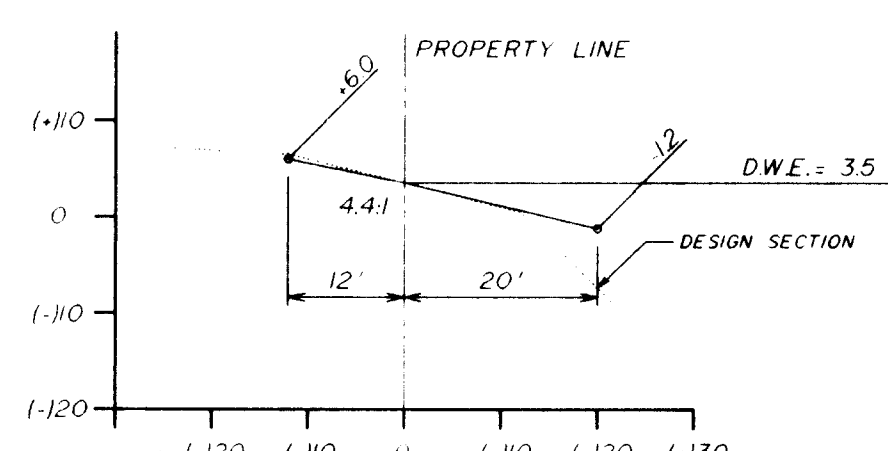
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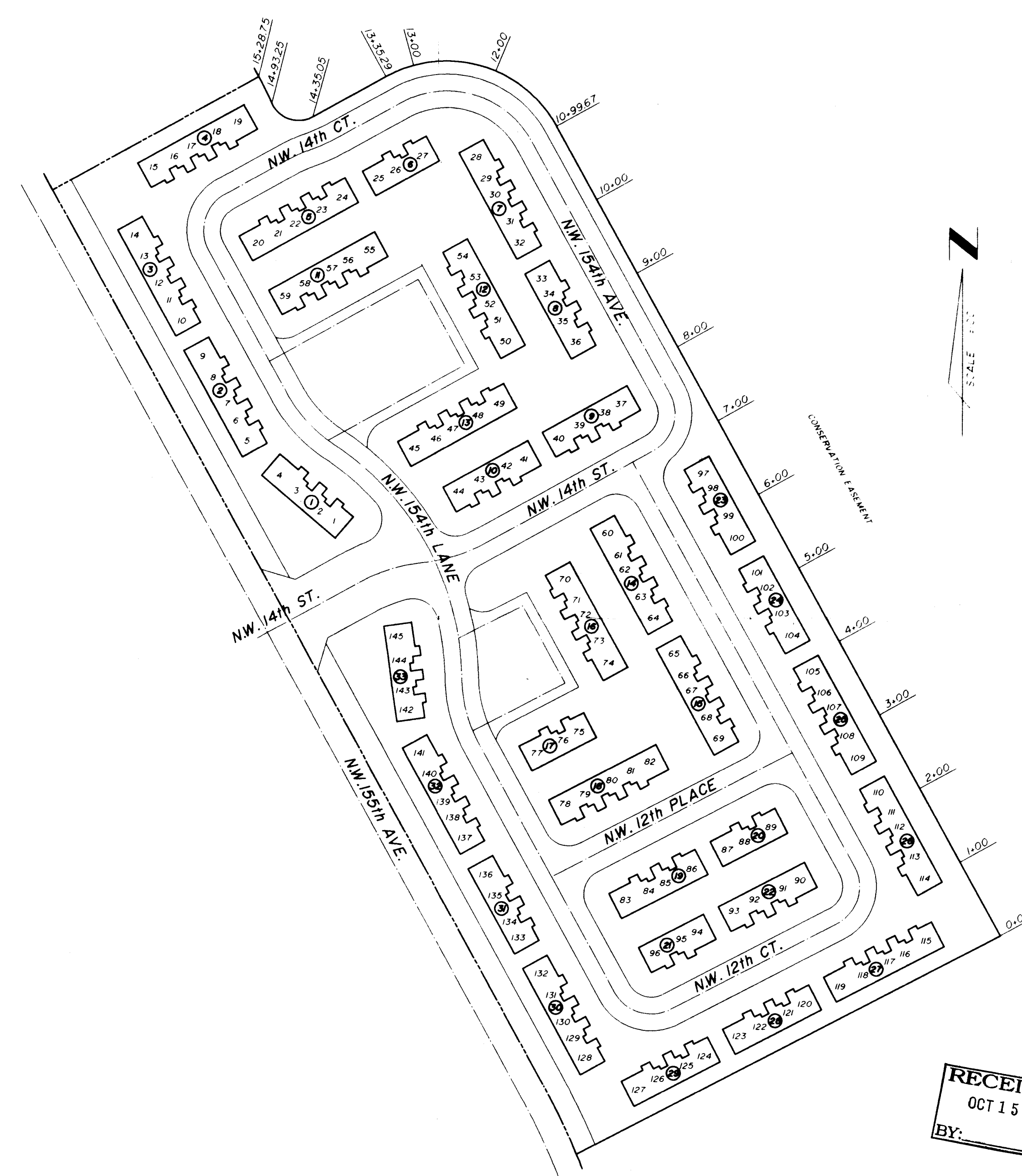
SECTION 14+35.05



SECTION 14+93.25



SECTION 15+28.75



RECEIVED
OCT 15 1997
BY: _____

SCALE 1"=20' HORIZONTAL
1"=20' VERTICAL

NOTE:

BENCHMARK: BROWARD COUNTY
ENGINEERING BENCHMARK No. 2322,
ELEVATION 8.903 NGVD 1929

LAKE BANK
RECORD DRAWING

TOWNGATE - VILLAGE 18
TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES (PEMBROKE) INC.

WINNINGHAM & FRADLEY, INC.
ENGINEERS - PLANNERS - SURVEYORS

DESIGNED: MSK	DATE: 4/97	APPROVED: <i>[Signature]</i>
DRAWN: MSK	DATE: 4/97	PROJECT NUMBER: 94530
CHECKED: _____	DATE: _____	SHEET 1 OF 1

OCT 13 1997

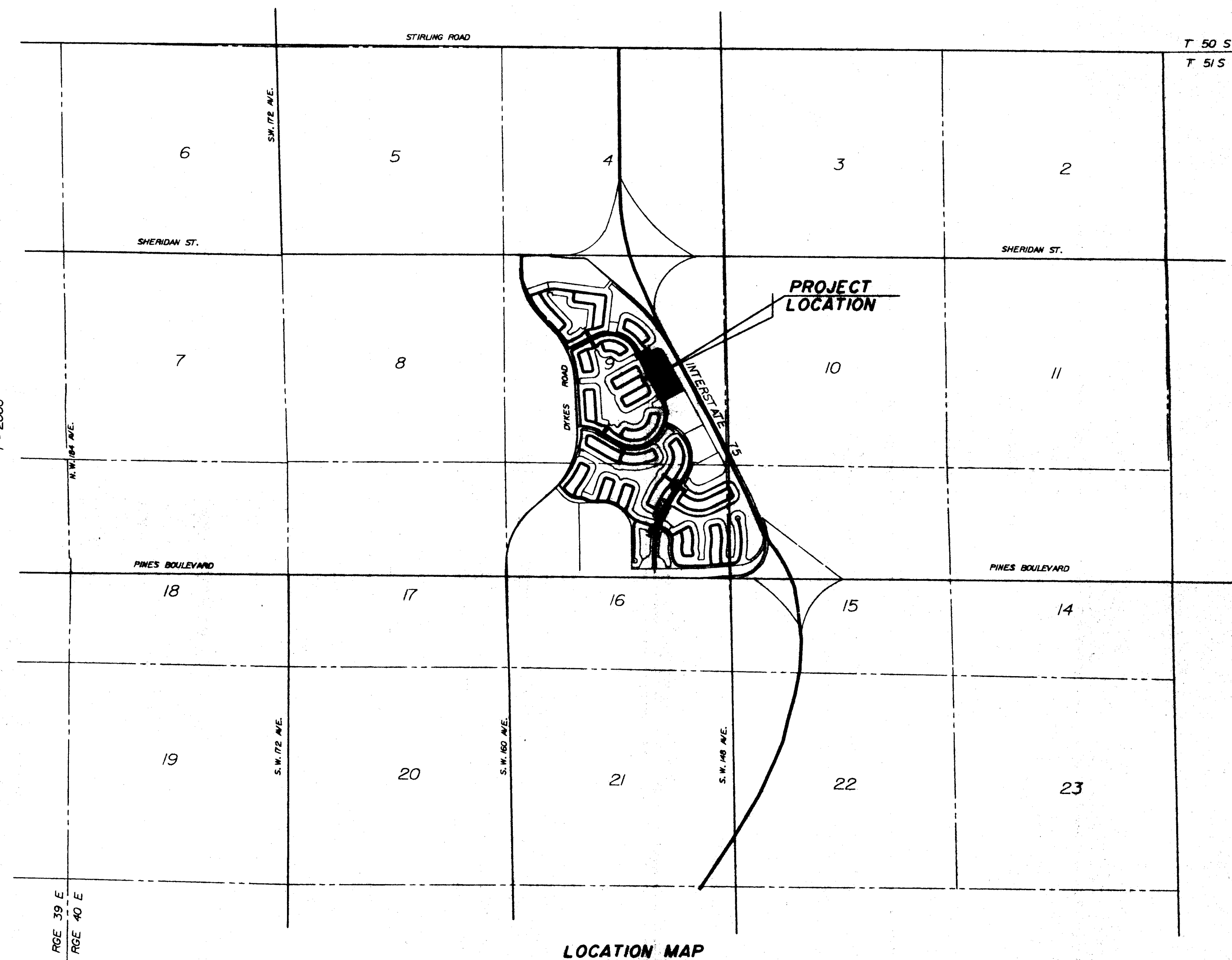
TOWNGATE - VILLAGE 18

CITY OF PEMBROKE PINES, BROWARD COUNTY, FLORIDA

**TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES (PEMBROKE), INC.**

A portion of Parcel "B" TOWNGATE, according to the plat thereof, as recorded in Plat Book 156, Page 11, of the Public Records of Broward County, Florida, being more particularly described as follows:

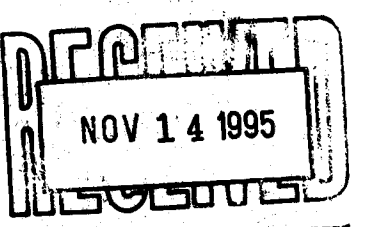
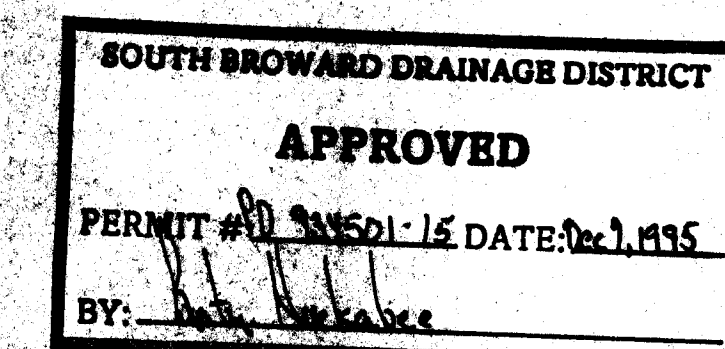
COMMENCING at the northwest corner of Parcel "E" of said plat of TOWNGATE; thence North 62°33'51" East for 25.08 feet to a point on a curve, at which a radial line bears South 67°00'38" West and to the POINT OF BEGINNING; thence northwesterly along the arc of a curve to the left, having a radius of 881.00 feet and a central angle of 05°52'49" for 90.42 feet to a point of tangency; thence North 28°52'11" West for 1169.01 feet; thence South 16°07'49" West for 35.36 feet; thence North 28°52'11" West, along the west line of said Parcel "B", for 75.00 feet; thence North 61°07'49" East, along a line radial to the next described curve; for 280.00 feet to a point on a curve; thence southeasterly along the arc of a curve to the right, having a radius of 380.00 feet and a central angle of 05°16'38" for 35.00 feet to a point of reverse curvature; thence southerly, southeasterly and easterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 95°16'38", for 58.20 feet to a point of tangency; thence North 61°07'49" East for 99.76 feet to a point of curvature; thence easterly, southeasterly and southerly along the arc of a curve to the right, having a radius of 235.62 feet and a central angle of 90°00'00" for 235.62 feet to a point of tangency; thence South 28°52'11" East for 1099.68 feet; thence South 62°33'51" West for 542.81 feet to the POINT OF BEGINNING.



**PAVING AND DRAINAGE SYSTEM
TRAFFIC MARKINGS
WATER DISTRIBUTION SYSTEM
SEWAGE COLLECTION SYSTEM**

DESCRIPTION	SHEET NUMBER
GENERAL NOTES AND SPECIFICATIONS	GNI OF 1
PAVING & DRAINAGE SYSTEM - PLAN	PD1 OF 2
PAVING & DRAINAGE SYSTEM - DETAILS	PD2 OF 2
TRAFFIC MARKING - PLAN & DETAILS	TMI OF 1
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	WS1 OF 5
SEWAGE COLLECTION SYSTEM - PROFILES	WS2 OF 5
SEWAGE COLLECTION SYSTEM - PROFILES	WS3 OF 5
SEWAGE COLLECTION SYSTEM - DETAILS	WS4 OF 5
WATER DISTRIBUTION SYSTEM - DETAILS	WS5 OF 5

LEGEND	
	SANITARY STRUCTURE DESIGNATION
	LENGTH, SIZE, TYPE, AND SLOPE OF PIPE
	FIRE HYDRANT WITH GATE VALVE & B.R.
	BACTERIOLOGICAL SAMPLING POINT
	RIM ELEVATION
	INVERT ELEVATION
	INLET DESIGNATION
	LENGTH, SIZE, AND TYPE OF PIPE
	FLOW OR WARP LINE
	RIDGE LINE
	PAVEMENT SLOPE AND DIRECTION
	DIRECTION OF OVERLAND FLOW
	POLLUTION RETARDANT BAFFLE
	FINISHED FLOOR ELEVATION
	CONCRETE SIDEWALK
	EXISTING OR FUTURE UTILITIES
	PROPOSED GRADE
	EXISTING GRADE
	PROPOSED PAVEMENT
	EXISTING OR FUTURE PAVEMENT
	FIRE HYDRANT
	GATE VALVE
	WATER MAIN
	FORCE MAIN
	BLUE REFLECTOR
	PAVEMENT RESTORATION
	PAVEMENT AND/OR ROCK REMOVAL
	GUTTER REMOVAL
	SINGLE WATER SERVICE
	DOUBLE WATER SERVICE
	SINGLE SEWER SERVICE
	DOUBLE SEWER SERVICE



WINNINGHAM & FRADLEY, INC.
ENGINEERS - PLANNERS - SURVEYORS

APPROVED
PROJECT NUMBER 94530 DATE SEPT 1995

NOV 10 1995

GENERAL NOTES FOR WATER DISTRIBUTION AND SEWAGE COLLECTION SYSTEMS

1. ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. APPROVAL OF DEVELOPMENT PLANS BY THE CITY IN NO WAY IMPLIES VERIFICATION OF THE ACCURACY OF THOSE PLANS OR FEATURES DEPICTED THEREON. ANY DISCREPANCY IN, OR VARIATION FROM, THE APPROVED PLANS IS TO BE BROUGHT TO THE ATTENTION OF THE CITY'S ENGINEER BY THE OWNER'S ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
6. THE CONTRACTOR SHALL INFORM THE CITY OF PEBROKE PINES ENGINEERING & UTILITY DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL UTILITIES, AND NOTIFICATION OF SUNSHINE STATE 1, (PH) 1-800-432-4770, 48 HOURS IN ADVANCE OF CONSTRUCTION.
8. THE CONTRACTOR SHALL INFORM THE CITY OF PEBROKE PINES ENGINEERING & UTILITY DEPARTMENT AND WINNINGHAM & FRADLEY, INC. A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF CONNECTING TO A CITY FACILITY.
9. A PRE-CONSTRUCTION MEETING IS TO BE HELD AT CITY HALL AND ATTENDED BY THE CONTRACTOR, OWNER'S ENGINEER, AND OTHER INTERESTED PARTIES PRIOR TO ISSUANCE OF ANY CONSTRUCTION PERMITS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING OF TESTS AS MAY BE DEEMED NECESSARY BY THE CITY OF PEBROKE PINES UTILITY DEPARTMENT AND THE OWNER'S ENGINEER OR AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
11. CONSTRUCTION SHALL BE CARRIED OUT IN STRICT COMPLIANCE WITH THOSE STANDARDS ACCEPTED BY BROWARD COUNTY OFFICE OF ENVIRONMENTAL SERVICES AND ADOPTED BY THE CITY OF PEBROKE PINES.
12. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON-SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE CITY ENGINEER OR HIS DESIGNEE UPON REQUEST.
13. WHERE SANITARY SEWER MAINS CROSS UNDER WATER MAINS WITH LESS THAN 18 INCH VERTICAL CLEARANCE, AND WHERE THE SANITARY SEWER CROSSES ABOVE A WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A DISTANCE OF 20 FEET CENTERED ON THE POINT OF INTERSECTION. IN NO CASE SHALL VERTICAL CLEARANCE BETWEEN ANY UNDERGROUND PIPING BE LESS THAN 12 INCHES. A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND WATER MAIN.
14. THE OWNER'S ENGINEER SHALL MAKE SUFFICIENT OBSERVATIONS OF THE WORK TO ENABLE HIM TO CERTIFY TO THE INSTALLATION AS BEING IN SUBSTANTIAL CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS.
15. THE CITY OF PEBROKE PINES UTILITY DEPARTMENT AND THE ENGINEER OF RECORD WILL CARRY OUT INSPECTIONS OF THE WORK, AND WILL WITNESS PRESSURE, BACTERIOLOGICAL, AND INFILTRATION/EXFILTRATION TESTS. TELEVISION INSPECTION OF ALL GRAVITY SANITARY SEWER SYSTEMS ARE REQUIRED.
16. THE CONTRACTOR SHALL SUPPLY AND INSTALL APPROVED REFLECTIVE MARKERS PLACED IN THE CENTER OF THE DRIVING LANE ADJACENT TO: FIRE HYDRANTS (BLUE REFLECTOR), AND VALVES OR M.H.S. OUTSIDE PAVEMENT AREAS. ORANGE R.P.M.'S FOR MANHOLES, WHITE R.P.M.'S FOR GATE VALVES, AND GREEN R.P.M.'S FOR FORCE MAIN VALVES.
17. THE FOLLOWING DOCUMENTS ARE TO BE ON FILE AT THE CITY OF PEBROKE PINES PRIOR TO THE CONNECTION OF THE FIRST WATER METER.
 - A. LETTERS OF ACCEPTANCE FROM:
BROWARD COUNTY PUBLIC HEALTH UNIT
BROWARD COUNTY DEPARTMENT OF NATURAL RESOURCE PROTECTION.
 - B. CERTIFICATION OF ENGINEER OF RECORD.
 - C. THREE SIGNED AND SEALED COPIES OF AS-BUILTS CERTIFIED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

GENERAL NOTES FOR SEWAGE COLLECTION SYSTEM & DRAINAGE SYSTEM

1. PRECAST STRUCTURES SHALL CONFORM TO ASTM C-478 AND 647. PRECAST STRUCTURE MUST BE CERTIFIED BY AN INDEPENDENT ENGINEERING TESTING LABORATORY. SIGNED AND DATED, CERTIFYING THAT THEY MEET THE REQUIREMENTS OF ASTM C-478 FOR CONCRETE STRENGTH, STEEL REINFORCEMENT AREA AND PLACEMENT, AND APPEARANCE. MANHOLES AND CATCH BASINS MUST BE INSPECTED BY THE CITY BEFORE UNLOADING.
2. CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS OR CAST IN PLACE MANHOLES AND CATCH BASINS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. MINIMUM WALL AND BASE THICKNESS FOR PRECAST MANHOLES SHALL BE 8 INCHES, EXCEPT FOR P BOTTOMS WHICH SHALL HAVE 6" WALLS. REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, A-305, A-185, AND A-497 LATEST REVISION. SPLICES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS. MINIMUM COVER OVER REINFORCING STEEL SHALL BE 3 INCHES. ALL DRAINAGE STRUCTURES SHALL MEET FOOT SPECIFICATION.
4. ALL OPENINGS IN PRECAST MANHOLES AND CATCH BASINS SHALL BE CAST AT THE TIME OF MANUFACTURE.
5. PRECAST MANHOLE AND CATCH BASIN SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY OF PEBROKE PINES AND ENGINEER FOR.
6. ALL MANHOLES AND CATCH BASINS SHALL BE SET PLUMB TO LINE AND GRADE, AND SHALL REST ON A FIRM, CAREFULLY GRADED SUBGRADE, WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
7. MANHOLE SECTIONS SHALL BE JOINED WITH A MASTIC COMPOUND PRODUCING A WATER TIGHT BOND. THE REMAINING SPACE SHALL BE FILLED WITH CEMENT MORTAR AND FINISHED SO AS TO PRODUCE A SMOOTH CONTINUOUS SURFACE INSIDE AND OUTSIDE THE WALL SECTIONS.
8. ALL CONCRETE AND MORTAR USED IN MANHOLE AND CATCH BASIN CONSTRUCTION SHALL HAVE TYPE II CEMENT.
9. ALL SPACES AROUND PIPES ENTERING OR LEAVING MANHOLES SHALL BE COMPLETELY FILLED WITH EMBECCO MORTAR (NON-METALLIC) OR BONSAL (NON-SHRINKING).
10. TWO COATS OF KOPPER'S 300 M SHALL BE APPLIED TO THE INSIDE OF THE MANHOLES AND WETWELLS. FIRST COAT RED, SECOND COAT BLACK ON THE OUTSIDE OF THE MANHOLE, ONLY ONE COAT IS NECESSARY.

11. SANITARY MANHOLES AND LIDS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 LOADING. USF 420A. D.A.E. LIDS SHALL SAY "CITY OF PEBROKE PINES SANITARY SEWER".
12. ALL GRAVITY SEWER PIPE SHALL BE PVC OR DUCTILE IRON. PVC PIPE SHALL CONFORM TO ASTM D 3034, SDR 35, LATEST REVISION, WITH MAXIMUM 13 FOOT LENGTHS AND PUSH-ON RUBBER GASKET JOINTS. DUCTILE IRON GRAVITY PIPE SHALL CONFORM TO THE SPECIFICATION FOR FORCE MAIN. ALL FORCE MAINS SHALL BE LINED WITH A VIRGIN POLYETHYLENE LINER COMPLYING WITH ASTM D 1648 COMPOUNDED WITH SUFFICIENT ADDITIVES TO RESIST ULTRAVIOLET RAYS DURING ABOVE GROUND STORAGE OF THE PIPE. THE POLYETHYLENE SHALL BE FUSED TO THE INTERIOR OF THE PIPE BY HEAT, FORMING A TIGHTLY BONDED LINING APPROXIMATELY 40 MILS THICK EXTENDING FROM SPIGOT END TO THE BARREL SOCKET.
13. CONNECTING TO THE EXISTING SYSTEM: ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITIES DEPARTMENT. VALVES THAT SEPARATE THE MAINS BEING INSTALLED FROM THE EXISTING MAINS SHALL BE OPERATED BY OR UNDER THE DIRECTION OF THE CITY UTILITIES DEPARTMENT REPRESENTATIVE ONLY.
14. THE CONTRACTOR SHALL TEST THE COMPLETED SEWER LINE TO DETERMINE THE ALIGNMENT AND TIGHTNESS OF THE JOINTS. GRAVITY SEWER MAINS SHALL BE LAMPED AND MUST SHOW A FULL CIRCLE OF LIGHT. INFILTRATION AND EXFILTRATION TESTING SHALL BE CONDUCTED. LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE PER DAY. NO VISIBLE INFILTRATION SHALL BE ALLOWED.
15. A READ STAKE SHALL BE INSTALLED AT EVERY SEWER SERVICE LOCATION.
16. SANITARY SEWER SHALL BE TELEVIEWED AT OWNERS EXPENSE. OWNER / CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO THE CITY'S CERTIFICATION OF COMPLETION TO ANY AGENCY.
17. ALL PROBLEMS/DEFECTS ASSOCIATED WITH THE SANITARY SEWER SYSTEM SHALL BE PROPERLY ADDRESSED PRIOR TO CITY CERTIFICATION TO ANY AGENCY.
18. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF PEBROKE PINES FOR APPROVAL PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISED OR UNACCEPTABLE MATERIALS INSTALLED OR ORDERED WITHOUT AN APPROVED SHOP DRAWING. FOUR COPIES OF THE SHOP DRAWINGS SHALL BE SUBMITTED.

WATER DISTRIBUTION SYSTEM NOTES

1. ALL WATER MAIN SHALL BE PVC CONFORMING TO ANSI/AWWA SPECIFICATION C-900-89-DR18.
2. FITTINGS SHALL BE DUCTILE IRON CLASS 350 MEETING AWWA/ANSI C153/A2153-88 SPECIFICATIONS. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER AWWA/ANSI C104/A214-90.
3. GATE VALVES 4" AND LARGER SHALL MEET AWWA C-509-87 SPECIFICATION. VALVES MUST BE MUELLER CO. OR APPROVED EQUAL. MECHANICAL JOINT, RESILIENT SEATED.
4. WATER SERVICE PIPING, FITTINGS, AND SERVICE TUBING SHALL BE POLYBUTYLENE CONFORMING TO AWWA SPECIFICATION C-902-88, SDR 9, 200 PSI RATING.
5. ALL METER SERVICE CONNECTIONS SHALL BE BRONZE FROM PLUG VALVE TO PLUG VALVE. NO GATE VALVES ARE TO BE USED (12" OR LESS). 90° ANGLE LOCK WING.
6. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
7. ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING AND DISINFECTING MUST COMPLY WITH THE CITY OF PEBROKE PINES UTILITIES WATER AND WASTEWATER MINIMUM CONSTRUCTION REQUIREMENTS.
8. THE ENGINEER WILL TAKE ALL BACTERIOLOGICAL SAMPLES TO AN H.R.S. CERTIFIED LABORATORY AND SUBMIT RESULTS TO THE CITY OF PEBROKE PINES UTILITIES.
9. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY OF PEBROKE PINES UTILITIES DEPARTMENT.
10. ALL PIPE, ETC., SHALL BE TESTED UNDER A CONSTANT PRESSURE OF 150 PSI FOR A MINIMUM TEST OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER AWWA/ANSI SPECIFICATIONS OF C600-93 LEAKAGE FORMULA:
$$Q = \frac{S \cdot D \cdot \sqrt{P}}{133,200}$$

Q = ALLOWABLE LEAKAGE IN GALLONS PER HOUR
S = TOTAL LENGTH OF PIPE TESTED IN FEET
D = DIAMETER OF THE PIPE TESTED IN INCHES
P = AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH
11. THE MINIMUM DEPTH OF COVER OVER P.V.C. WATER MAINS SHALL BE 36 INCHES & OVER D.I.P. SHALL BE 30 INCHES.
12. DISINFECTING OF MAINS SHALL COMPLY WITH AWWA C-651-92 SPECIFICATIONS. STANDARD BACTERIOLOGICAL SAMPLING POINTS SHALL BE DESIGNATED ON THE ENGINEERING PLANS (FORCE MAIN SHALL NOT BE DISINFECTED).
13. MINIMUM VALVE SPACING SHALL BE AS PER SECTION 82 OF THE TEN STATES STANDARDS.
14. WHEN PVC IS USED FOR WATER MAIN, A 3" STRIP OF METALLIC TAPE SHALL BE INSTALLED THE LENGTH OF THE PIPE 18" ABOVE THE PIPE WITH THE WORDS "WATERIOR FORCE MAIN BURIED BELOW" FACING UPWARD. NON-METALLIC TAPE SHALL BE USED ON D.I.P.
15. ALL D.I.P. WATER MAIN SHALL BE CLASS 350, CONFORMING TO ANSI/AWWA SPECIFICATION C151/A214-91 AND BE CEMENT MORTAR LINED AND SEAL COATED PER ANSI/AWWA SPECIFICATION C104/A214-90.
16. PLUG VALVES SHALL BE DUCTILE IRON MANUFACTURED BY CLOW OR EQUAL.
17. A TEMPORARY METER SHALL BE INSTALLED BY THE CONTRACTOR FOR ANY TEMPORARY SERVICES.
18. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF PEBROKE PINES FOR APPROVAL PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISED OR UNACCEPTABLE MATERIALS INSTALLED OR ORDERED WITHOUT AN APPROVED SHOP DRAWING. FOUR COPIES OF THE SHOP DRAWINGS SHALL BE SUBMITTED.

PAVING AND DRAINAGE SYSTEM NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF PEBROKE PINES ENGINEERING DEPARTMENT, THE SOUTH BROWARD DRAINAGE DISTRICT, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
3. THE LOCATIONS OF EXISTING FACILITIES WERE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES AND SURVEY MARKERS.
4. ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) MEETING THE REQUIREMENTS OF ASTM SPECIFICATION C76-85a.
5. MINIMUM COVER FOR ALL PIPE CULVERTS SHALL MEET THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS (INDEX NO. 205).
6. ALL UNDERGROUND FACILITIES SHALL BE INSTALLED PRIOR TO PLACING THE LIMEROCK BASE MATERIAL.
7. THE CONTRACTOR AND/OR HIS SUPERINTENDENT SHALL HAVE AT LEAST ONE COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING CONSTRUCTION OF THIS PROJECT:
 - A. CITY OF PEBROKE PINES ENGINEERING DEPARTMENT STANDARD DETAILS SPECIFICATIONS & PROCEDURAL MANUAL, JANUARY 1990.
 - B. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - C. FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, JANUARY 1992.
 - D. U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MARCH 1988.

8. THE FOLLOWING INSPECTIONS ARE REQUIRED BY THE CITY OF PEBROKE PINES ENGINEERING DEPT. PLEASE CALL 435-6512 48 HRS PRIOR TO THE TIME THE INSPECTION IS NEEDED.

A. CLEANING AND FILLING
B. STORM DRAINS/UTILITIES
C. SUBGRADE
D. ROCK BASE
E. PRIME COAT
F. ASPHALT
G. FINAL
H. PAVEMENT MARKINGS

9. DENSITY TESTS FOR SUBGRADE MUST BE SUBMITTED TO AND APPROVED BY THE CITY OF PEBROKE PINES.
10. DENSITY TESTS AND AS-BUILTS FOR LIMEROCK BASE MUST BE SUBMITTED AND APPROVED BY THE CITY OF PEBROKE PINES PRIOR TO THE PLACEMENT OF ANY ASPHALT.

**SOUTH BROWARD DRAINAGE DISTRICT
GENERAL NOTES**

1. THE FOLLOWING GENERAL NOTES ARE REQUIRED BY SOUTH BROWARD DRAINAGE DISTRICT. THEY ARE NOT MEANT TO BE ALL INCLUSIVE AND IT IS THE ENGINEER'S RESPONSIBILITY TO ADD ANY NOTES WHICH WILL INFORM THE OWNER AND THE CONTRACTOR OF ANY ADDITIONAL REQUIREMENTS OF THE SOUTH BROWARD DRAINAGE DISTRICT.
2. LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 910 OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS EXCEPT THE MINIMUM PERCENTAGE OF CARBONATE OF CALCIUM AND MAGNESIUM SHALL BE SIXTY PERCENT (60%).
3. THE CONTRACTOR SHALL CALL THE SOUTH BROWARD DRAINAGE DISTRICT 24 HOURS PRIOR TO BACK-FILLING OF DRAINAGE TRENCHES, PLACEMENT OF ASPHALT, SHAPING OF CANAL OR LAKE BANKS FROM THE DEEP CUT LINE AND AS REQUIRED BY DISTRICT CALL (352) 681-3337. THE SOUTH BROWARD DRAINAGE DISTRICT'S WORKING HOURS ARE FROM 8:00 A.M. TO 4:30 P.M.
4. ANY REVISIONS TO THESE PLANS MUST BE APPROVED BY SOUTH BROWARD DRAINAGE DISTRICT PRIOR TO CONSTRUCTION.
5. BONDS AND INSPECTIONS
 - A. BOND (CASH OR SURETY) OR LETTER OF CREDIT IN THE DISTRICT'S FAVOR MUST BE POSTED IN THE AMOUNT STATED IN SECTION 4A OF THE DISTRICT'S DESIGN CRITERIA MANUAL.
 - B. ALL EASEMENTS, DEED RESTRICTIONS, INDEMNIFICATION AGREEMENTS, MAINTENANCE AGREEMENTS AND DEEDS AS REQUIRED BY THE DISTRICT SHALL BE PRESENTED TO THE DISTRICT MANAGER AND ATTORNEY FOR APPROVAL BEFORE RECORDATION. ALL COSTS OF RECORDING THE APPLICABLE INSTRUMENT WILL BE BORNE BY THE DEVELOPER.
 - C. UPON COMPLIANCE WITH THE CONDITIONS REQUIRED BY THE DISTRICT FOR APPROVAL AND RECEIPT OF APPROVED PLANS FROM THE DISTRICT'S ENGINEER, THE DISTRICT'S MANAGER WILL MARK THE PLANS "APPROVED" AND SIGN SAME AND TRANSMIT THE APPROVED PLANS TO THE DEVELOPER AND THE DISTRICT FILES.
 - D. BONDS SHALL BE PROVIDED BY THE PRINCIPALS OF DEVELOPMENTS ONLY. CONTRACTOR OR SUB-CONTRACTOR BONDS ARE NOT ACCEPTABLE.
 - E. IF REQUIRED BY DISTRICT, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AT LEAST SEVEN (7) DAYS PRIOR TO CONSTRUCTION.
6. WHEN CONSTRUCTION IS IN PROGRESS, THE DISTRICT'S INSPECTOR WILL INSPECT THE INSTALLATION OF DRAINAGE WORKS, ACCORDING TO AN INSPECTION SCHEDULE ESTABLISHED BY THE DISTRICT. INSPECTION MUST BE MADE BY DISTRICT PERSONNEL OF ALL UNDERGROUND STORM DRAIN FACILITIES BEFORE BACKFILLING. CALL (352) 680-3337/8 8:00 AM-4:30 PM FOR AN INSPECTION APPOINTMENT. A MINIMUM OF TWENTY-FOUR (24) HOURS IN ADVANCE. ALL COSTS OF PERIODIC INSPECTIONS OF CONSTRUCTION BY THE DISTRICT SHALL BE BORNE BY THE DEVELOPER.
7. CERTIFIED "AS-BUILT" PLANS FROM THE ENGINEER OF RECORD WHICH ARE ACCEPTED AND APPROVED BY THE DISTRICT'S ENGINEERS AND MANAGER WILL BE REQUIRED BEFORE RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY ON THE APPROVED CONSTRUCTION DRAWINGS AT THE SAME SCALE FOR COMPARISON PURPOSES. AS-BUILT SUBMITTAL SHALL FOLLOW THE SAME FORMAT OF GENERAL REVIEW AS OUTLINED IN SECTION 32 OF SOUTH BROWARD DRAINAGE DISTRICT'S CRITERIA AND PERMIT MANUAL.
8. LAKE AND CANAL AS-BUILTS SHALL BE CROSS SECTIONED SHOWING THE DESIGNED SECTION AS DASHED, AS-BUILT SECTION AS SOLID AND HAVE THE TOP OF BANK REFERENCED TO THE LAKE/CANAL MAINTENANCE EASEMENT AND PROPERTY LINES. SPACING BETWEEN EACH CROSS-SECTION SHALL BE SUCH AS TO PROVIDE ENOUGH DATA TO DETERMINE IF THE LAKE/CANAL WAS CONSTRUCTED AS DESIGNED, BUT NO GREATER THAN ONE HUNDRED (100) FEET BETWEEN CROSS-SECTIONS, UNLESS APPROVED BY DISTRICT'S ENGINEER. PLAN VIEW OF ACTUAL LOCATION OF THE TOP OF BANK AND DEEP-CUT LINE SHALL BE PROVIDED WITH CROSS-SECTIONS.
9. UPON SUCCESSFUL COMPLETION OF THE CONSTRUCTION AND ACCEPTANCE OF "AS-BUILTS", THE BOND OR LETTER OF CREDIT MAY BE RELEASED FOLLOWING PAYMENT TO THE DISTRICT FOR ALL EXPENSES AND COSTS INCURRED BY THE DISTRICT WHICH ARE REQUIRED TO BE PAID BY THE DEVELOPER.
10. THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES SHALL EXERCISE EXTREME CAUTION TO ENSURE THAT THE BANK SLOPES AND DEEP-CUT LINES ARE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS FOR THE DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL PERIODICALLY OR AS REQUESTED BY THE DISTRICT OBTAIN A SURVEY FROM A FLORIDA REGISTERED SURVEYOR OF THE LOCATION OF THE DEEP CUT LINES PRIOR TO FORMING THE BANK SLOPES. THIS SURVEY SHALL BE TAKEN PRIOR TO THE OWNER/CONTRACTOR BEGINNING CONSTRUCTION OF THE BUILDING ADJACENT TO THE WATER BODY. IN THE EVENT THE CONTRACTOR/OWNER OVERCUTS OR OVERDIGS THE WATER BODY, THE CONTRACTOR/OWNER SHALL SUBMIT TO THE DISTRICT ITS RECOMMENDED SOLUTION TO CORRECT THE OVER DIGGING. ANY SUGGESTED REMEDY OR CORRECTION MUST BE APPROVED BY THE DISTRICT BEFORE THE CONTRACTOR/OWNER COMMENCES CONSTRUCTION OF THE PROPOSED CORRECTION/REMEDY.

FIRE HYDRANTS

FIRE HYDRANTS SHALL HAVE A MINIMUM 5 1/4" VALVE OPENING AND SHALL OPEN AGAINST THE PRESSURE AND CLOSING WITH THE FLOW. HYDRANTS SHALL BE MUELLER CENTURION, MODEL NUMBER A-423 OR EQUAL. HYDRANTS SHALL MEET OR EXCEED ANSI/AWWA C502-85, C503-88 OR LATEST REVISION, AND SHALL COMPLY WITH FACTORY MUTUAL RESEARCH CORPORATION AND UNDERWRITERS LABORATORIES UL246 STANDARD.

RECORD DRAWING DATA REQUIREMENTS:

1. ALL WATER MAINS SHALL HAVE THE TOP OF PIPE'S ELEVATION SHOWN AT 100' 0" C MINIMUM.
2. ALL FITTINGS AND VALVES SHALL BE LOCATED USING A PHYSICAL BASELINE AT THE TOP OF FITTING ELEVATION.
3. LOCATE ALL WATER SERVICES, SEWER SERVICES, VALVES, FIRE HYDRANTS & CLEANOUTS FROM A PHYSICAL BASELINE.
4. SHOW ALL BACTERIOLOGICAL SAMPLE POINTS AND NUMBER CONSECUTIVELY.
5. IDENTIFY ALL PIPE MATERIAL USED ON THE PROJECT SPECIFICALLY SHOWING WHERE PIPE WAS CHANGED IN MATERIAL TYPE.
6. RECORD DRAWINGS SHALL BE LOCATED AND CARRIED BY A P.L.S. REGISTERED IN THE STATE OF FLORIDA.

BROWARD
DISTRICT
APPROVED
DESIGNED

GENERAL NOTES

TOWNGATE - VILLAGE 18
TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES (PEMBROKE), INC.

WINNINGHAM & FRADLEY, INC.
ENGINEERS - PLANNERS - SURVEYORS

DESIGNED: WBF DATE: 9/95
DRAWN: WBF DATE: 9/95
CHECKED: DATE: 9/95
PROJECT NUMBER: 94530 SHEET: GNI OF 1

