

5520

210107

AERO/D7  
Coles Co

2-29-2012

161

60D  
5525CK

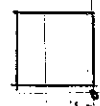
2

MARK1  
5531CK



450E

1700N



5524

5523

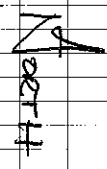


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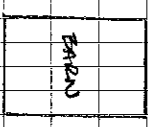
5521

FIG 1  
ROAD  
2  
BARAN

450E



1900N



BARAN



HAE

5530

5529



5526

5527

FIG 3  
ROAD  
4  
SHOOT GRASS

210107

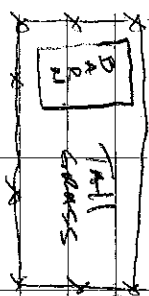
3

Land

SS38 CK

ROAD

25M  
HOOSE



SS37

SS36

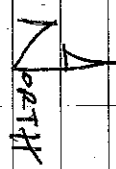
SS35

SS32



SS33

100E



Pic 5 Road

to TALL GRASS

AEPO/D7  
Coles Co

2-29-2012

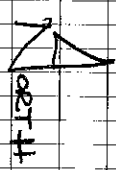
171

4

Land

SS44 CK

ROAD



SS40

SS39

SS42

SS43

BRUSH

200E

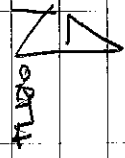
Pic 7 Road

to BRUSH

210107

60  
WOOD  
55504K

250E



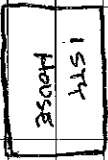
5552

5551 A • 1500N

5554

• 5555

SHOT GLASS



1ST HOUSE

Pic 11 Road

12 Glass SHOT

AER20/07

2-29-2012

181

5  
MAG  
55504K

5

MAG

55504K

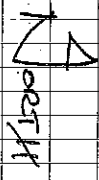
WOODS

5545

5546

5548

5549



SHOT

1500N

Pic 9 Road

10 WOODS

210167

7

600

55620K



5561

5560

5557 Δ •

1520W

5558

2080

100E

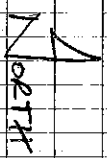
PIC13 Roms  
14 Silo

AERO/D7  
OILS/O

8

600

55680K



5564

5566

5563 Δ •

1520W

5567

6054

100E

PIC15 BLDG  
14 Roms

2/10/07

9

600

55754K

5574

TALL GRASS

5573

NORTH

5572

5589 Δ

1170N

5570

100E

Pc 17 Road  
18 TALL GRASS

2/20/07

Colles Co

2-29-2012

20/

10

600

55814K

400E 33rd ST

NORTH

5580

2577  
House

5579

5576 Δ

5577

1100N

Pc 12 Road  
20 HOUSE

210107

11

6000

55872K

1300N



WOOD

55883

55882

55885  
55886

WOODS

RC 21 Road

22 WOODS

Area 107

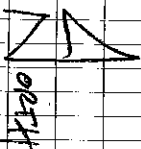
Colts Co

2-29-2012

12

M44

55936K



WOOD

55889

55888

55911

55922

BRUSH

EVERGREEN CT

RC 23 Road

24 BRUSH

210107

13

MUG

STEEL CK

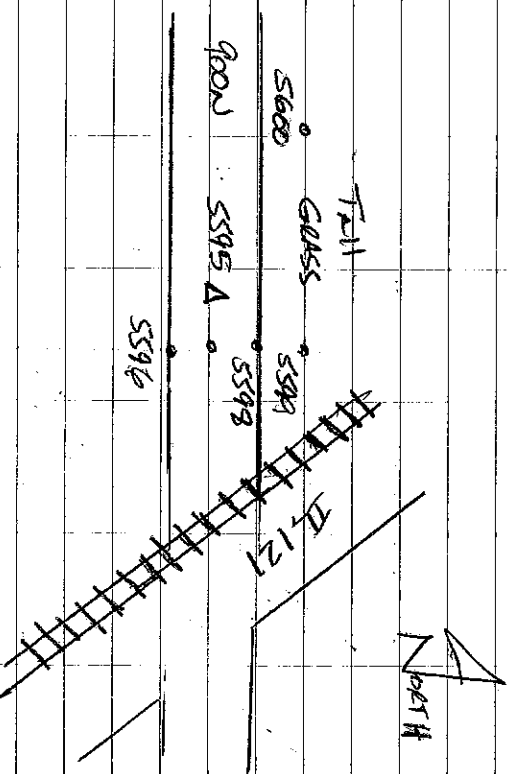


FIG 25 Road

26 TALL GRASS

keep/d7

Colas Co

2-29-2012

29

14

LOAD

STEEL CK

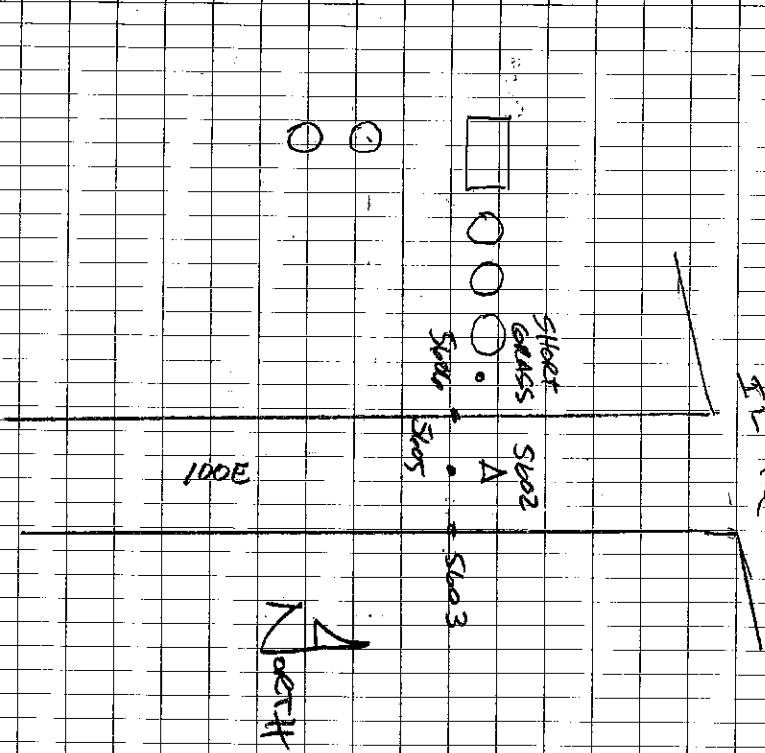


FIG 27 Road

28 SHORT GRASS

210107

15

MAY

5613 CK

NORTH

OLD STATE RD 517

5608A

5609

5611

5612

WOODS

150E

Pic 29 Road  
30 Woods

231

2-28-2002

AERO/107  
Colts Co

16

MAY

5619 CK

WESTERN

NORTH

5615

5614

300E

5617

5618

LITTLE  
ELEMENTARY  
SCHOOL

Pic 31 Road  
32 School



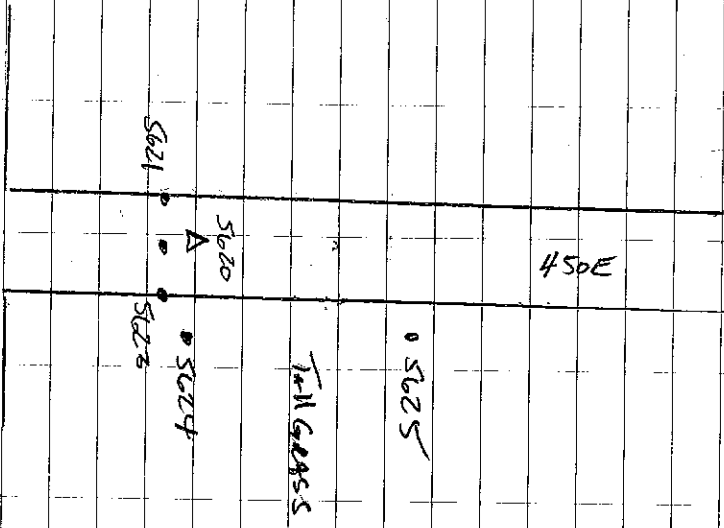
210107

17

MAG  
Sediment

Pic 33 Road  
34 grass

650 N



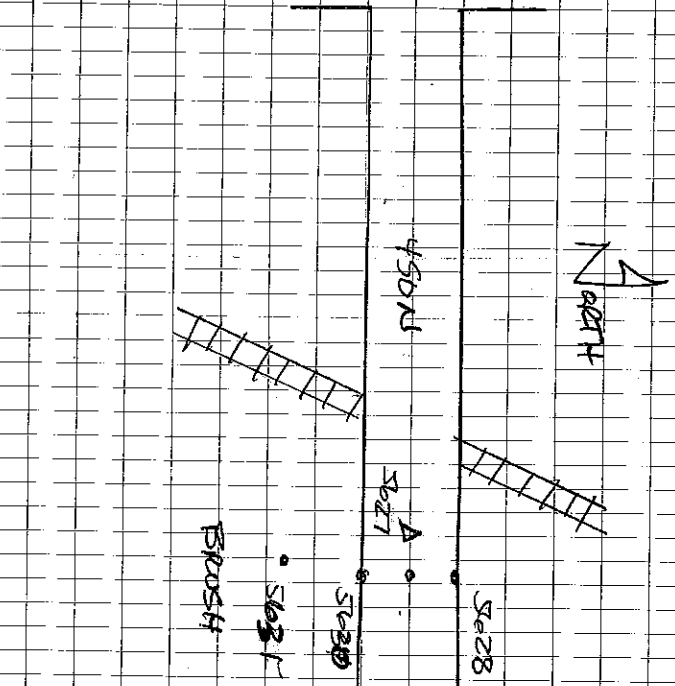
AERO/D7  
Poles Co

18

WOOD  
Sediment

Pic 35 Road  
36 BRUSH

380 E



241  
3-1-2012

210107

19

1000

5038A

400N

North

HOUSE #3494

400E

5033

5034

5036

5037

SHORT GRASS

PIC 37 Pond

38 SHORT GRASS

251

3-1-2012

AERO/D7  
Poles Co

20

1000

5045A

250N

North

100E

5041

5042

5043

5044

USE

TRAIL

USE

PIC 39

40 Ponds

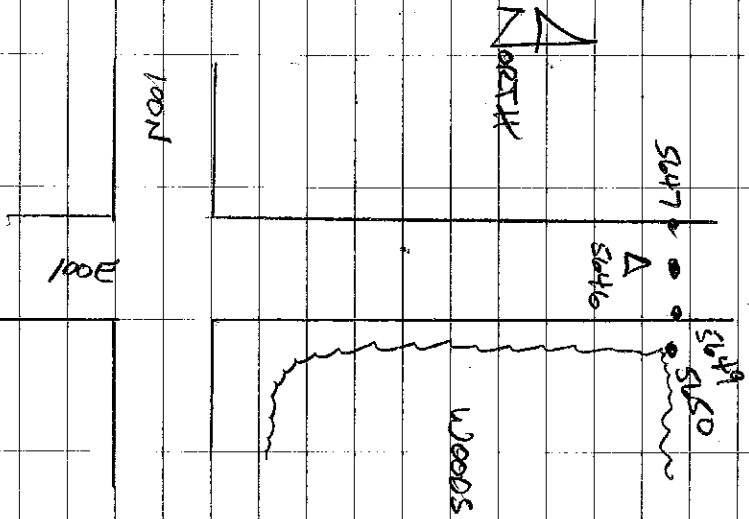
680E

210107

21

Map

SICK



Pic 41 Road  
42 Woods

ASB 107  
Coles Co

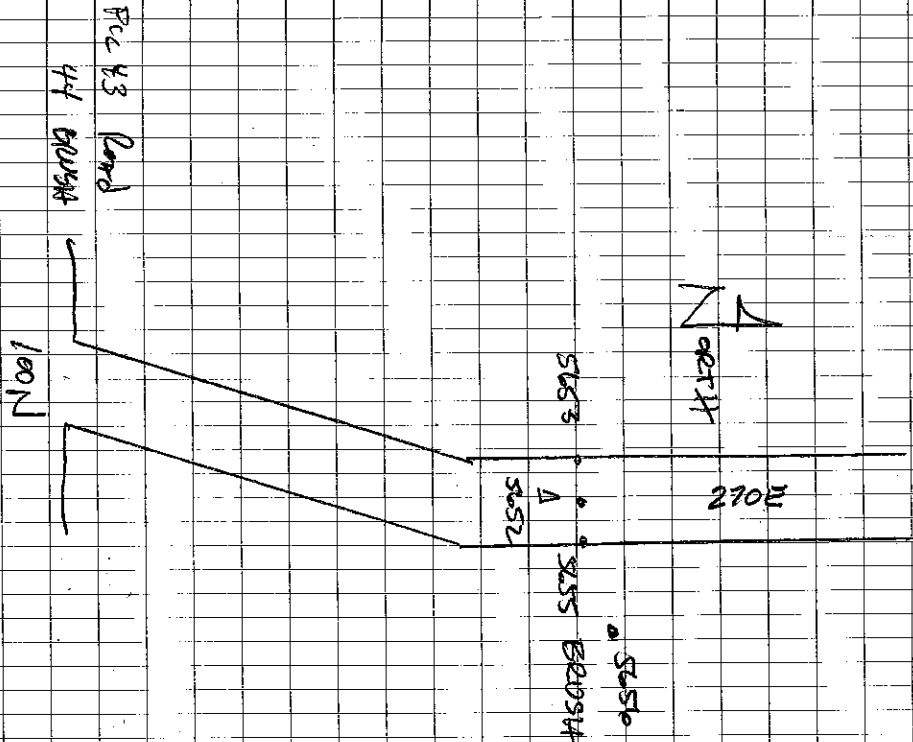
3-1-2012

24

22

Map

SICK



Pic 43 Road  
44 Woods

210167

23

NAS

51441C

5143 Tall  
Grass • 5142

5141

5158 Δ

5159

North

5172

100N

100E

Pic 45 Road

4/2 Tall Grass

271  
3-1-2012

Aero/07

24

Low

51201C

180E

100N

North

5144

Δ 5145

5148

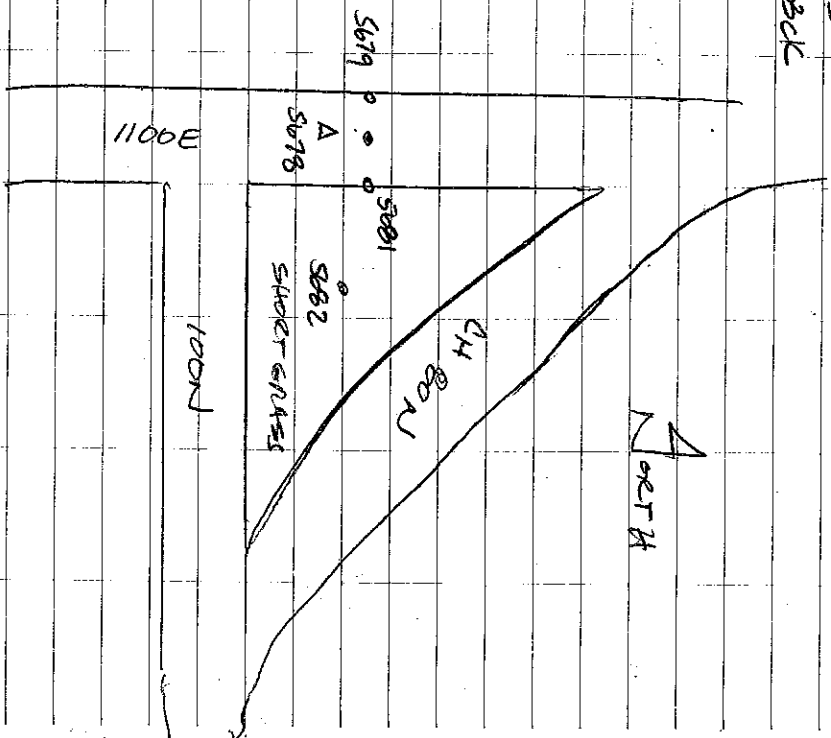
5149  
Woods

Pic 47 Road

4/2 Woods

210107

24  
LOAD  
SWBACK



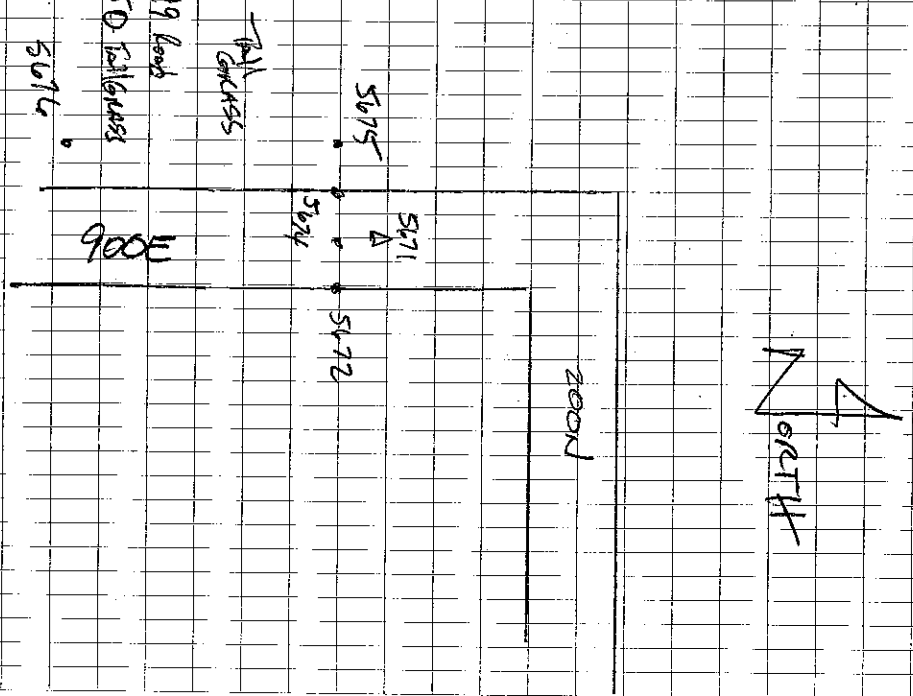
P1C S1 Road  
52 SHOOT GRASS

APP/D7  
CALS @

3-1-2012

28/

25  
LOAD  
5677c/c



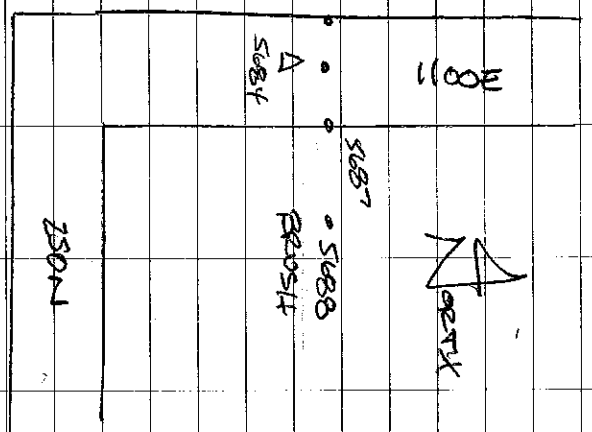
P1C 49 Road  
50 TALL GRASS  
5674

210107

27

Good

56894C



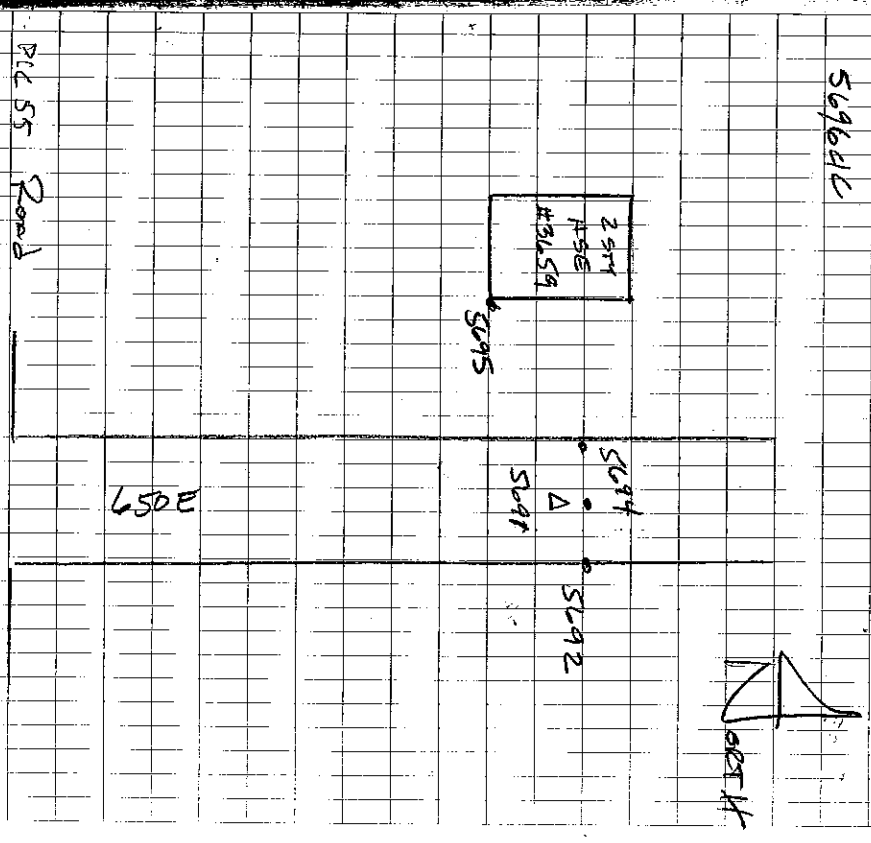
01453 Road  
54 BRUSH

290107

28

WAS

56964C



01455 Road  
56 HOUSE  
350 W

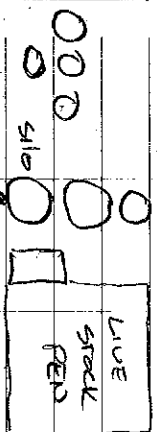
210107

29

MWG

Stock

NORTH



5701

5702

5703

450N

Pic 57 Pond  
58 Silo very Tall

Area 107

3-1-2012

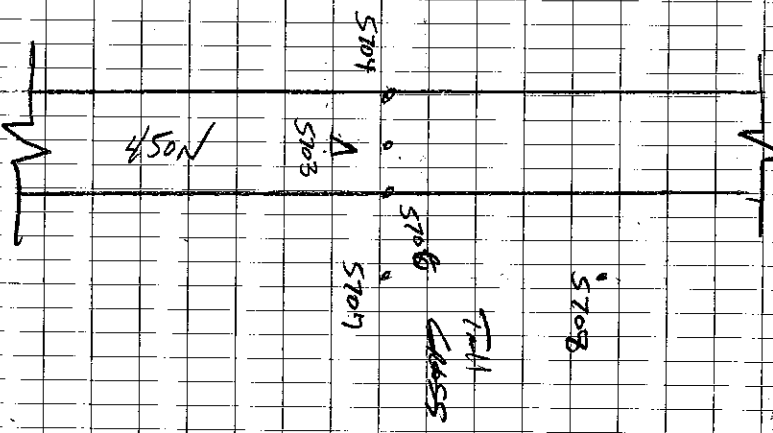
3/

30

MWG

Stock

NORTH



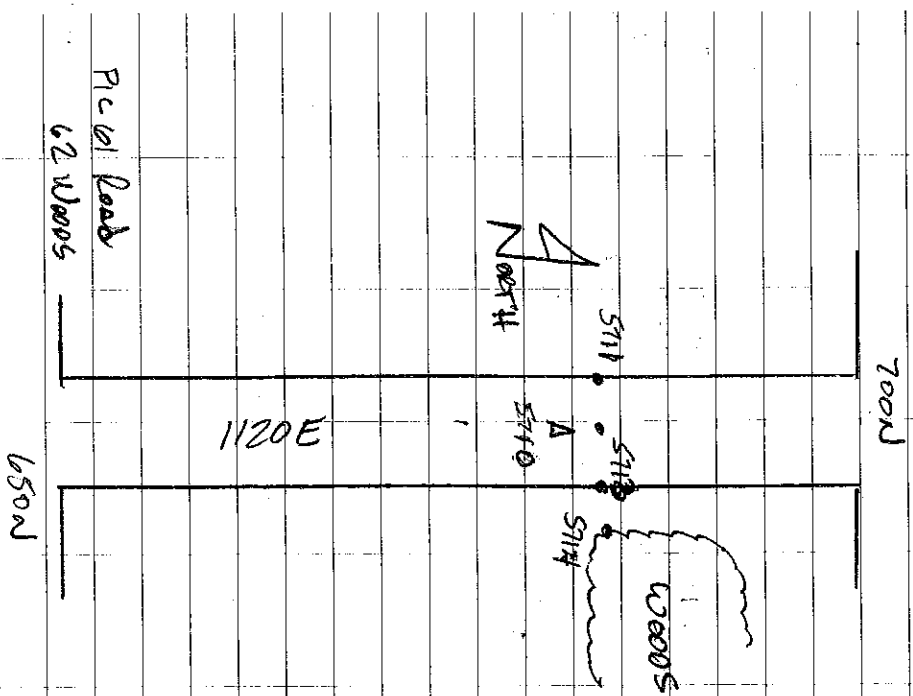
Pic 59 Road  
66 Tall Grass

210107

31

MAG

571516



AERO/D7

Colts Co

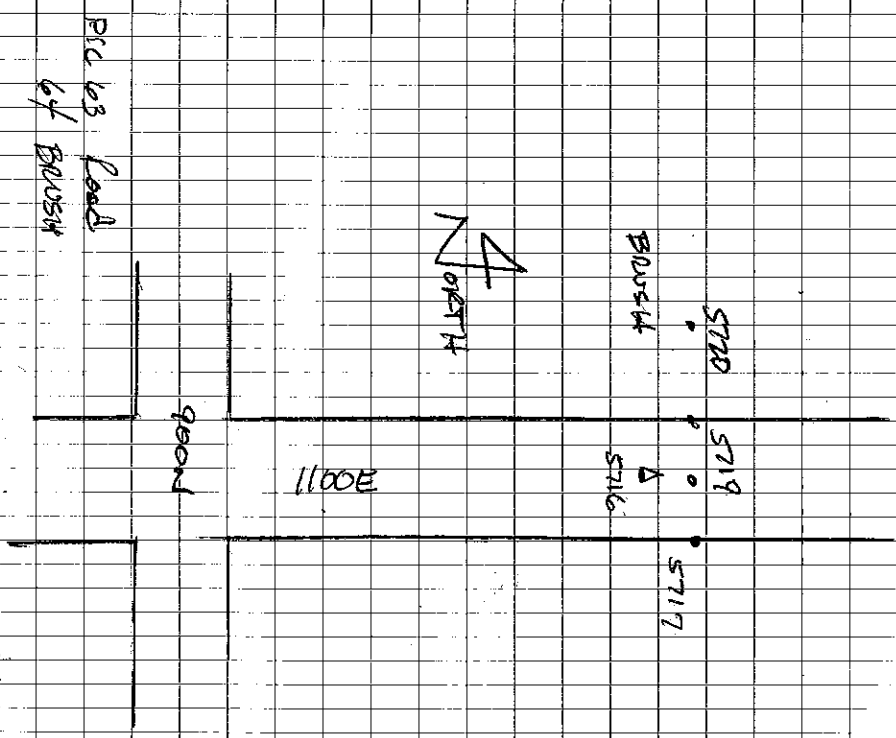
3-1-2012

31

32

MAG

571516



Pic 103 Road  
of Boush



210107

33

MAG  
ST27C



WOODS

ST26

ST25

ST24

ST23

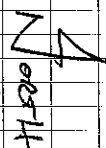
870E

800N

PICKS Road  
by Woods

34

MAG  
ST34C



ST29

ST28

ST27

ST26

SHOOT GRASS

700E

900N

PICKS Road  
by SHOOT GRASS

APR 20/07  
CALS Co

3-1-2012

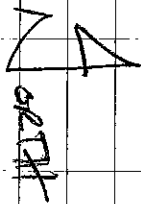
32/

210167

35

MANA  
5740 LC

FAIRWAY LAINE



5738  
A  
5735  
SHORT  
GRASS  
5738  
5738

GRASS BEHIND  
DIR

PICKY POOD  
70 SHORT GRASS

APR 10/07  
GOLFERS CO

3-1-2012

33/

LAST # USED  
5741 MATTHEWS AIRPORT BASE

210107

AERO 107

COLES CO.

JOB = COLES B, UNIT B

PNT 71

E 2600

6638-6640 ROAD

6641 BRUSH

6642 CK 6637

6637

2050 N

PIC 132-11650 ROAD 075  
132-11651 BRUSH 076

38/6

PNT-72

6644-6646

ROAD

6647-6648

TALL

6649 CK 6643

6643

PIC 132-11652 ROAD 077  
1650 TALL 078

210107

ACR0/D7

PNT-73

6651-6653 ROAD  
6654 WOODS  
6655 CK 6650

Pic 132-1654 ROAD  
132-1655 WOODS

6650 Δ

x

079  
080

39/c

PNT 74

6657-6659 ROAD

6660- BLDG

6661 CK 6656

6654 Δ

x

Pic  
132-1656 ROAD  
132-1657 BLDG

081  
082

→ 402

210107  
AERO / D7

PNT 76

X  
BRUSH

2706 E

1200 N

16669 - 16670 ROAD

16671 BRUSH

16672 CR 16666

PIC 132-16660 ROAD  
16661 BRUSH

085  
086

402 →

→ 411

4016

PNT 75

X  
GRASS

1350 N

16663 - 16665 ROAD

16664 SHOEY

16667 CR 16662

PIC 132-16658 ROAD  
16659 SHOEY

083  
084

2700 W

391 →

→ 401

210117  
AERO / D7

PNT 77

6675-6677  
ROAD

6678-6679  
TALL

6680 CK 6674

Δ  
6674

X X

PIC 132-1662 ROAD  
132-1663 TALL

057  
058

40.1 →

PNT 78

N ↓

7049

900N  
6682 Δ

6683-6685 ROAD

6686 WOODS

6687 CK 6682

132-1664 ROAD  
132-1665 WOODS

059  
090

41/6

→

→

210107  
AERO/D7

PNT 80

6688

X SHORT

6689-6691

ROAD

6692 SHORT

6693 CK 6688

750N

2600 III

PIC 132-666  
- 1667

ROAD 091  
SHORT 092

PNT 79

866N

2420E

6694

Δ

X

6695-6697

ROAD

6698 BLDG

6699 CK

6694

093  
094

PIC 132-1668 ROAD  
132-1669 BLDG

LAST

42/6

210107

AERO / D7

COLES B

PNT 81N

2250 E

720 N

Δ 6700

6701 - 6703 ROAD

6704 BRUSH

6705 CK 6700

PIC 132 - 1672 ROAD

1673 BRUSH

ME 097  
098

43/c

PNT 82

X

Δ 6706

850 N

6707 - 6709 ROAD

6710 - 6711 TALL

6712 CK 6706

1880 E

PIC 132 - 1674 ROAD

1675 TALL

099  
000



210107  
AERO / D7

PNT 83

N  
|  
A

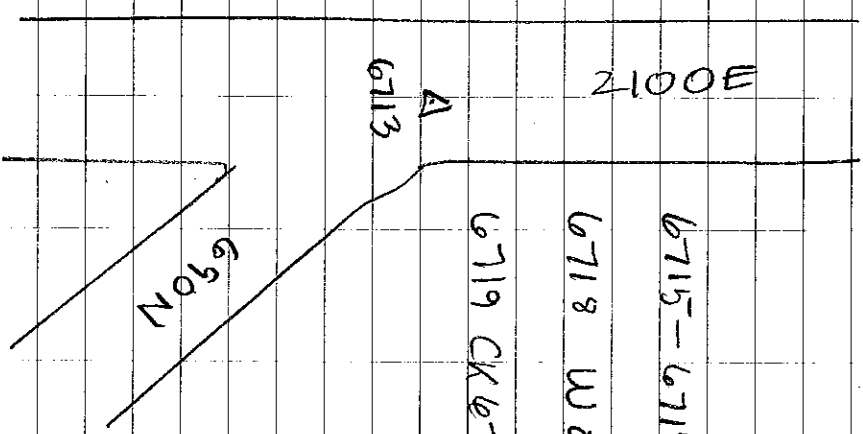
2100E

6715-6717 ROAD

6718 WOODS

6719 CK & 713

6713  
A



PIC 132 - 1676 ROAD 101  
132 - 1677 WOODS 102

44/6

PNT-84

N  
|  
A

2300E

600N

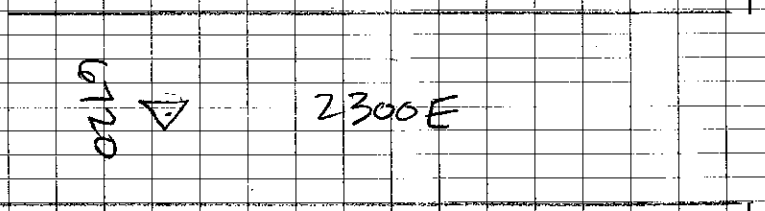
6721-6723

ROAD

6724 BLDG

6725 CK 6720

6720  
A



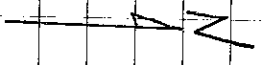
PIC 132 - 1678 ROAD 103  
132 - 1679 BLDG 104

210107

AERO / D7

PNT 85

470N



2000E

6727-6729 ROAD

6730 SHORE

6731 CR 6726

△ 6726

PIC 132-1680  
132-1681

ROAD  
SHORE

105  
106

45/6

PNT 86

6733-6735 ROAD

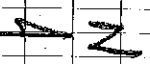
6736 BUSH

6737 CR 6732

300N

△ 6732

X



PIC 132-1682  
132-1683

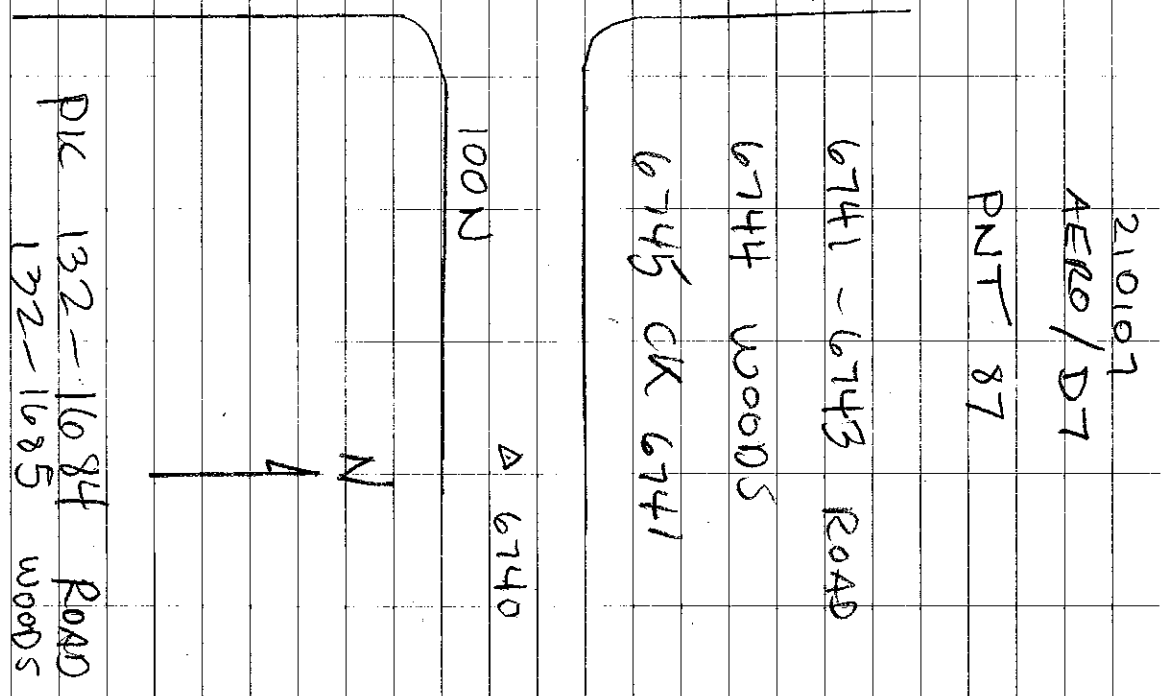
ROAD  
BUSH

107  
108

1920

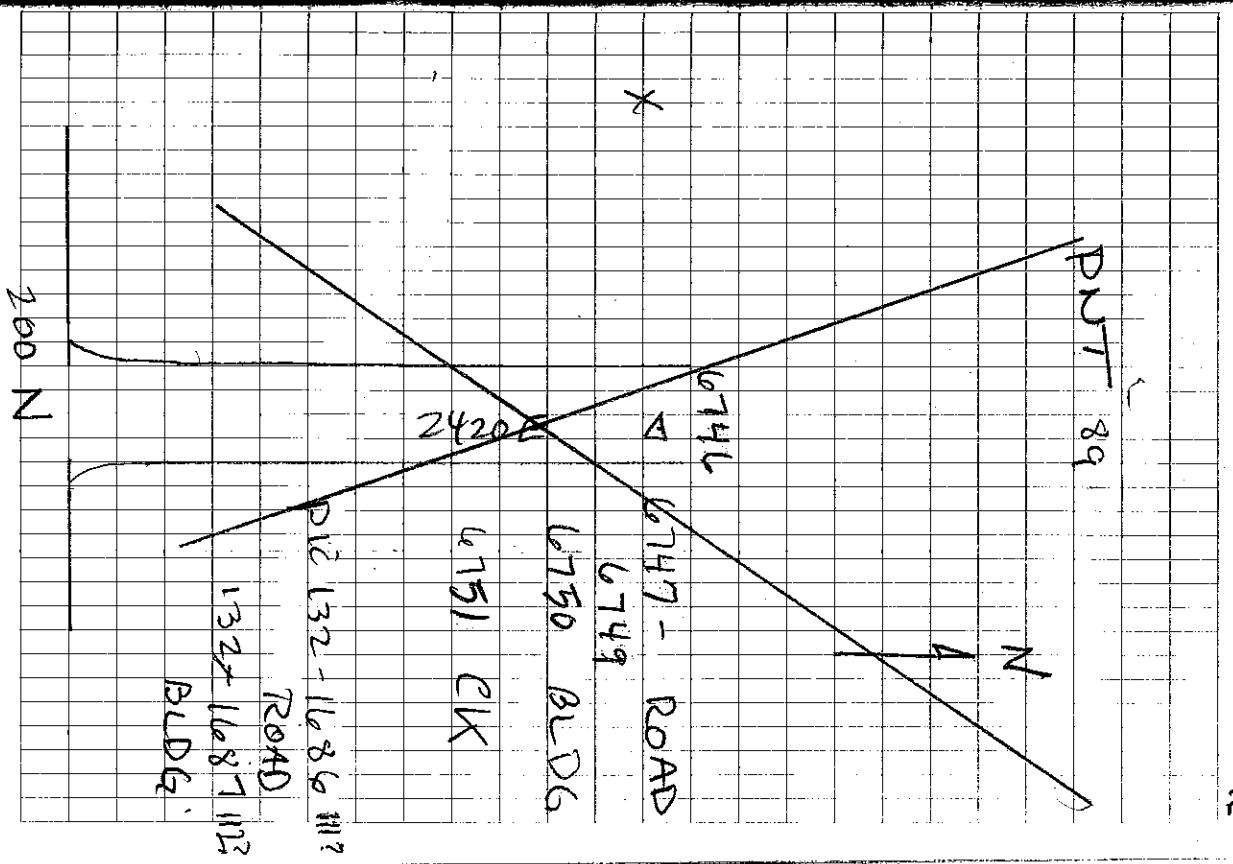
X

2000 E



109  
110

461c



210107

AERO / DT

PNT 88

PNT 91

6758-6760 ROAD

6761-6762

TALL

6763 OR 6757

6765-6767 ROAD  
\*  
6768 BLDG  
6769 OR 6764 X

2300E

300N

Δ 6751

1200N

PK 132-1692

ROAD

132-1693

BLDG

162  
116

PK 132-1690  
132-1691

~~Map~~



210107  
AERO / D7

PNT: 92

1550 N

6771-6773  
ROAD

2230 E

6774-6775  
TALL

6776 CK 6770

A  
6770

X

N

PIC 132- 1694  
132- 1695

119  
120

PNT: 93

6778-6780 ROAD

6781 BRUSH

6782 CK 6777

2300 E

1700 N

A  
6777

X

N

PIC 132- 1696  
1697 ROAD  
BRUSH

121  
122

6783 LAST

48/C

210107

49/c

AERO 1D7  
COLESB  
PNT 94

PNT 95

6784+

(133)

6791-6793

ROAD

6794 SHORT

6795 CK 6790

6785-6787

ROAD

6788 WOODS

6789 CK -

6785

6784

6790

△

PIC 132-1700

ROAD

132-1701

SHORT

LINCOLN

2300E

2350E

x PIC 132-1698  
x 132-1699

125  
126

+

210107  
ACRD / D7

PNT 096

6797 - 6799 ROAD  
6800 - 6801 TALL  
6802 CK 6796

1950 E

6796 Δ 1800 N

x

Pic 1322 - 1702 ROAD  
1322 - 1703 TALL

127  
128

506

PNT 97

x

2000 E

Δ 6803

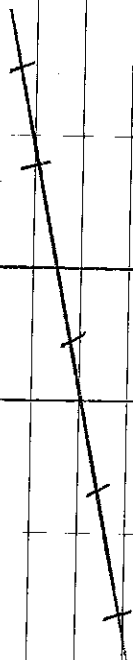
Pic 1322 - 1704 ROAD  
1322 - 1705 BLDG

129  
130

210107

AERO 107

PNT 98



6810-6812

ROAD

6809

A

6813 BRUSH

6814 CK 6809

PIC 132-1706

ROAD

W 088

132-1707

BRUSH

131  
132

5/6

PNT 99

6816-6818

ROAD

6819 WOODS

6815

A

6820 CK 6815

1320 N

PIC 132-1708

ROAD

1709

TREES

133  
134



2-29-12  
LM  
55° sunny  
+ wind

210107  
AEROYD7  
File: Coles D

PWT 36

↑  
N  
↓

600

X 8659

1800 N

Δ

X 60

8658

X 61

X 8662

510

Beige
Metal
BL06

8663

CK 8658

Photos: 101-4090 Road

4091 8106

Coles Co.  
GPS "D"

8/61

PWT 37

↑  
N  
↓

600

X 8665

1800 N

Δ

X 66

8664

X 8667

Short

X 8668

8669

CK 8664

Photos: 101-4092 Road

4093 Short

2-29-12  
LM  
550 sunny  
+ wind

210107  
AEROIDT  
COLERS D

↓  
N

PNT 38

X 8675

Fall

X 8674

X 72

1700N

△  
600  
8670

X 72

X  
8671

8676 CK 8670

Photos 101-4094 Road

4095 Fall

↓  
N

PNT 39

R.R.

Brush

X 8681

X 8680

1700N

△  
79  
8677

X 79

X  
8678

8682 CK 8677

Photos: 101-4096 Road

4097 Brush

2-29-12  
LM  
210107  
AERO107

55° Sunny  
+  
wind  
COL ESTD

N  
↓

PNT 40

700 E

1700 N

X 8684

X 86

X 85

Mag  
Δ 8683

8687  
Trees

8688

CK 8683

Photos: 101-4098 Road  
4099 Trees

N  
↓

PNT 41

1900 N

X 8690

X 91

X 92

Mag  
Δ 8689

X 8693  
5110

8694

CK 8689

Photos: 101-4100 Road  
101-4101 B206

2-29-12  
LM  
550 Windy  
210107  
AERO107  
COLESD

PUT 42

↓  
N

X 8696

1800 N

X 97

Δ 60 D  
8695

X 98

Shoot  
X 8699

8700

CK 8695

Photos: 101-4102 Road

4103 Short

8/64

PUT 43

↓  
N

X 8702

1700 N

Δ 60 D  
8701

X 03

X 04

X 8705

Berge  
Metal  
Barn  
w/white  
Doors

8706

CK 8701

Photos: 101-4104 Road

4105 BLDG

2-29-12  
LM  
Sloveny  
windy

210103  
AERO/D7  
COL ESD

PWT 44

↑  
N  
↓

8712  
x

Fall

x 8711

x<sub>10</sub>

1700 N

x<sub>09</sub>

Δ 600  
8707

x  
8708

8713

CK 8707

Photos: 101-4106 Road

4107 Fall

PWT 45

↑  
N  
↓

Δ 600

8714

8715 x

x<sub>16</sub>

x 8717

x  
8718  
BRUSH

1650 F

8719

CK 8714

Photos: 101-4108 Road

4109 BRUSH

2-29-12  
LM  
SSE Windy

210107  
AERO107  
COLES D

↑  
N

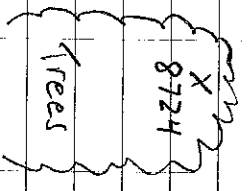
PNT 46

X  
8721

1700 W

X22 Δ 60°  
8720

X23



8725 CK 8720

Photos: 101-4110 Road  
4111 Trees

8/66

↑  
N

PNT 47

Short

60°  
Δ  
8726

X  
8730

X27 X  
28 \* 8727

1500 E

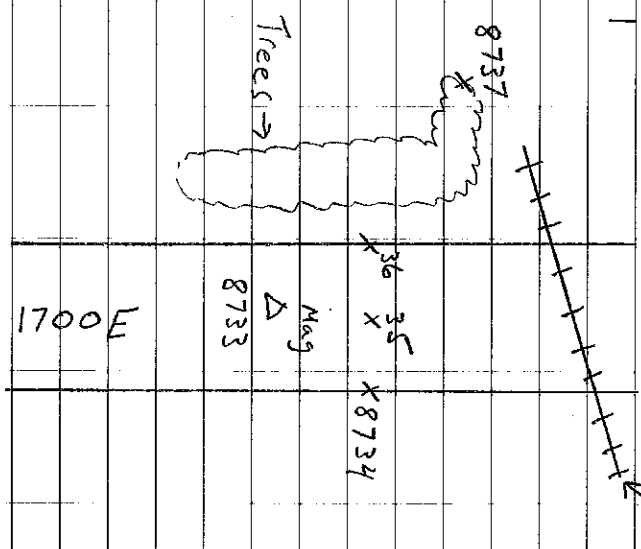
8731 CK 8726  
8732 CK CL505 R.R. Spike

Photos: 101-4112 Road  
4113 Short

2-29-12  
LM  
Savery  
windy

210107  
AERO/07  
GOLFSD

↓ N  
PUT 48  
R.R. ↘



8738 CK 8733

Photos; 101-4114 Road  
Hills Trees

3-1-12  
LM

210107  
AERO/07

55° sunny

File: COLES D

N

PVT 49

X 8745

600  
Δ

8740

Tail

X 8744

<sup>43</sup> 600  
X X 8742

X 8741

1400 E

8739 CK D177 Mon.  
8746 CK 8740

Photos: 101-4116 Road

4117 Tail

Coles Co.  
GPS "D"

8/68

N

PVT 50

White  
Metal  
Barn  
w/ Tail  
Doors

X 8751

X 50

<sup>49</sup> X

X 8748

M49  
Δ  
8747

500 E

8752 CK 8747

Photos: 101-4118 Road

4119 BLD

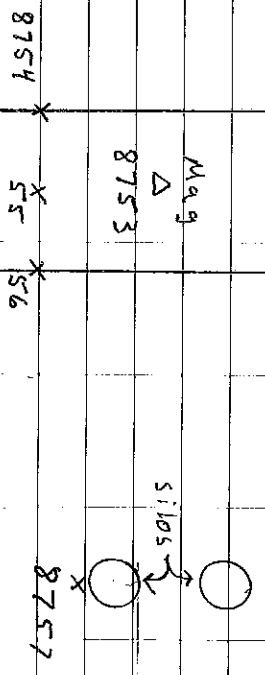


3-1-12  
LM  
55° Sunny

210107  
AERO 07  
COL ESID

PWT 51

N ↓



1100E

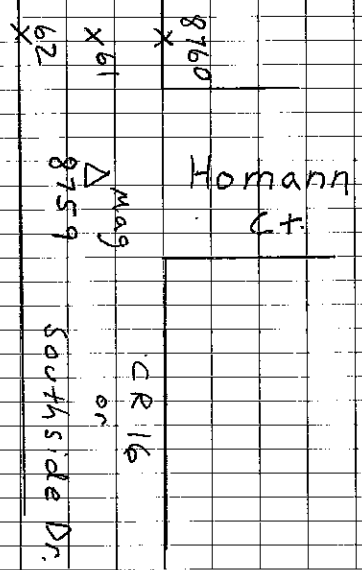
8758 CK 8753

Photos: 101-4120 Road  
4121 BLDG

8/69

PWT 52

N ↓



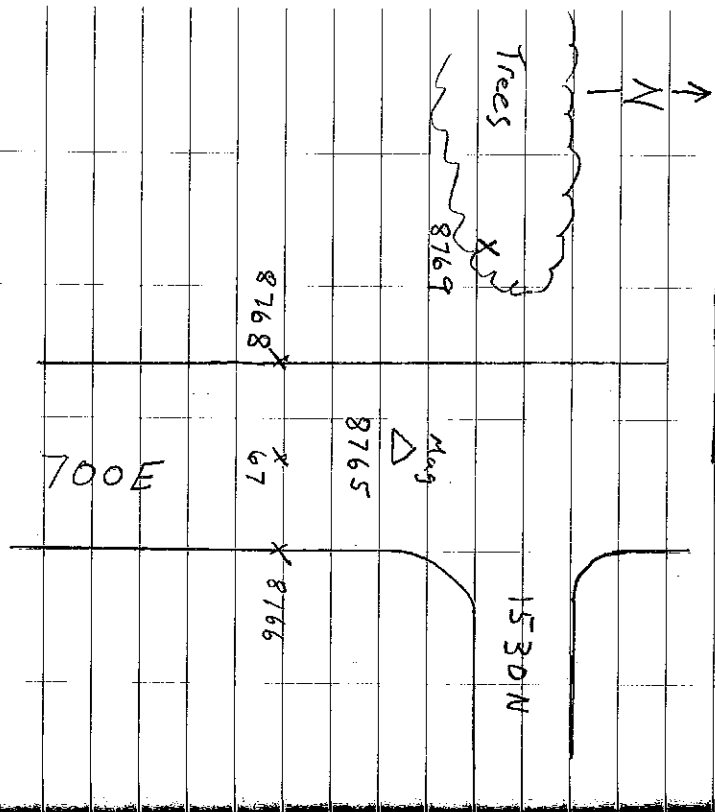
8764 CK 8759

Photos: 101-4122 Road  
4123 BRUSH

3-1-12  
LM  
SS - Sunny

210107  
KEE0107  
COLESD

PNT 53

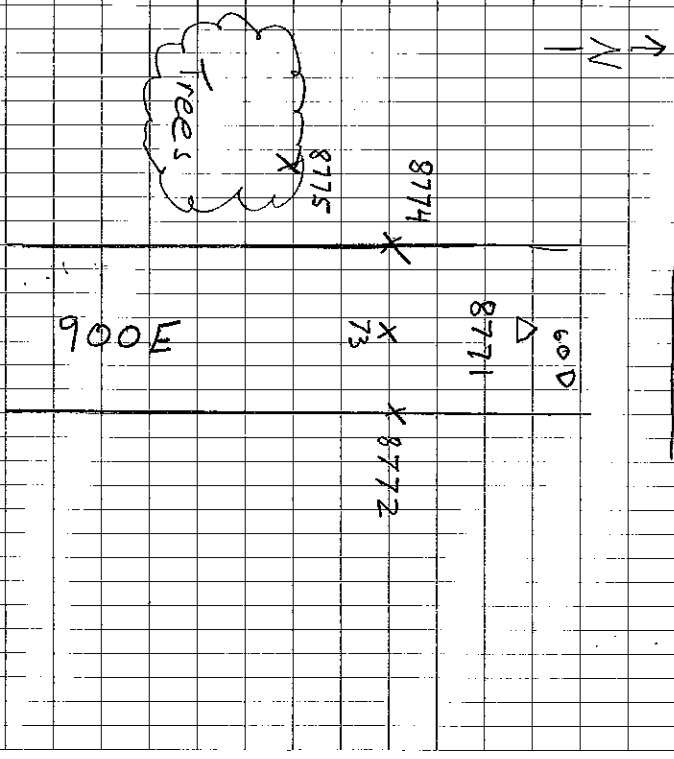


8770 CK 8765

Photos: 101-4124 Road  
4125 Trees

8/70

PNT 54



8776 CK 8771

Photos: 101-4126 Road  
4127 Trees

3-1-12  
LM  
SS. Sunny

210107  
AERO/07  
COLESD

PUT 55

N  
↓

600  
Δ  
8777

8782  
x

8781  
x

80  
x

79  
x

8778  
x

700E

8783 CK 8777

Photos: 101-4128 Road

4129 Tall

8/71

PUT 56

N  
↓

Short

8785  
x

86  
x

87  
x

8788  
x

600  
Δ  
8784

1150E

8789 CK 8784

Photos: 101-4130 Road

4131 Short

3-1-12 210107  
LM AERO/D7  
SSO Sunny COLES D

↑  
N  
↓

PWT 57

X 8791

1200 N

X<sup>92</sup> Δ 600  
8790

X<sup>93</sup>

X  
8794

Brush

8795 CK 8790

Photos: 101-4132 Road  
4133 Brush

8/72

↑  
N  
↓

PWT 58

X 8797

1300 N

X<sup>98</sup> Δ Mag  
8796

X<sup>99</sup>

X 8800

Short

8801 CK 8796

Photos: 101-4134 Road  
4135 Short

3-1-12  
LM  
SS<sup>o</sup> Sunny  
210107  
AERO107  
COLESD

PUT 59



R.R.

X  
8803

X04 Δ<sup>600</sup>  
8802

X05

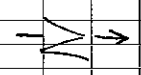
X8806

8807 CK8802

Photos: 101-4136 Road  
4137 Brush

8/73

PUT 60



Δ<sup>600</sup>  
Mus

8808

8809 X

X 10

X8811

X 8812

Brown/Green  
Metal Pole  
BATH

CR6  
1650 E

8813 CK8808

Photos: 101-4138 Road  
4139 Brush

3-1-12  
LM  
55° Sunny

210107  
HERD/07  
COL EG D

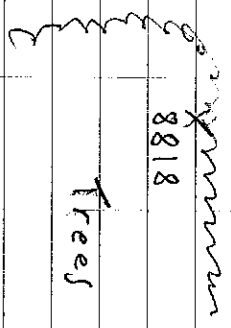
↓  
N  
↓

PUT 61

CL504  
Δ  
8814

8815 X  
16 X 17

5005



8819 CK CL504

Photos: 101-4140 Road  
4141 ↑ Trees

8/74

PUT 62

8825 X  
8824 X  
23 X 22 X  
8821 X

Tail

Mary  
Δ  
8820

8826 CK 8820

Photos: 101-4142 Road  
4143 Tail

3-1-12  
LN  
SS. Sunny

210107  
AERO/07  
COLLESD

PNT 63

↑  
N

Mag  
A  
8827

8832 X  
8831 X  
30 X  
29 X  
8828 X

Tall

Hayes Ave.

8833 CK 8827

Photos: 101-4144 Road  
4145 Tall

2/75

PNT 64

↑  
N

8835 X

500 N

600  
Δ  
8834

X  
8837

Brush

X  
8838

8839 CK 8834

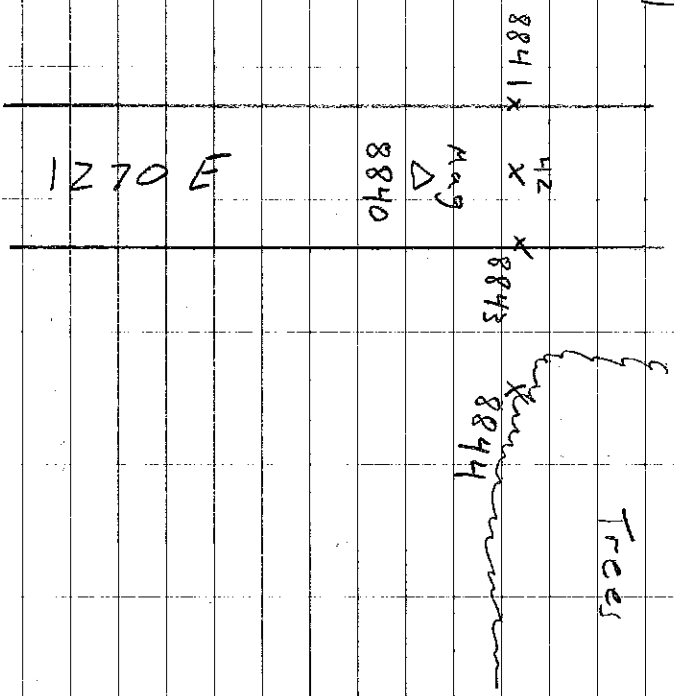
Photos: 101-4146 Road  
4147 Brush

3-1-12  
LM  
60° S-NW

210107  
AERO107  
COLES0

PNT 65

N  
↓



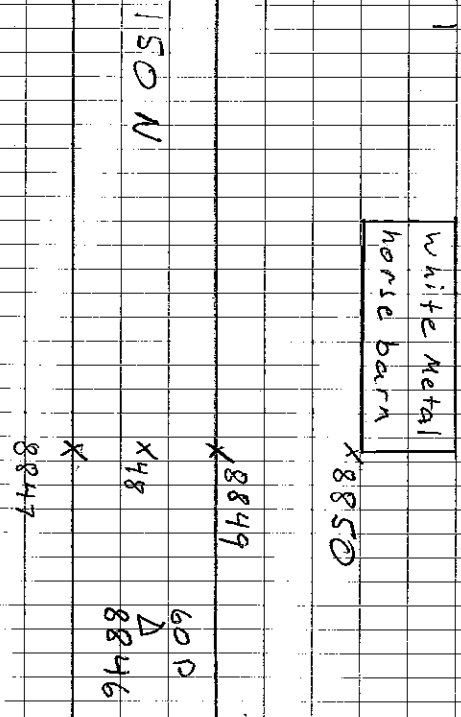
8845 CK8840

Photos: 101-4148 Road  
4149 Trees

8/76

PNT 66

N  
↓



8851 CK8844

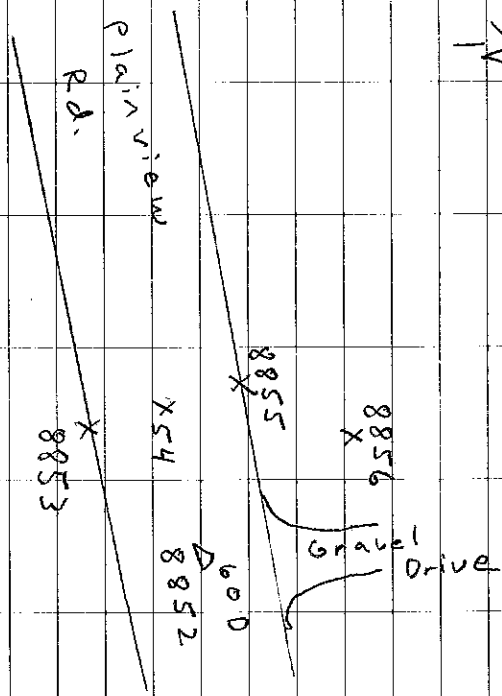
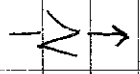
Photos: 101-4150 Road  
4151 R206



3-1-12  
LM  
60° Sunny

210107  
AERO107  
COLTS-D

PAUT 67



8857 CK 8852

Photos: 101-4152 Road  
4153 Short

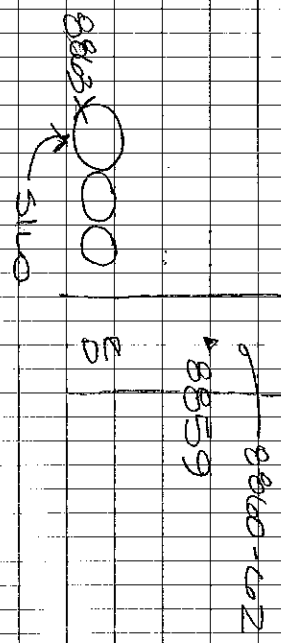
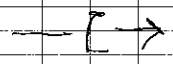
#89

3/2/12

8/77

(COVERED)

N  
E



8864 CK 8859

Photos 101-4154 Road  
55 BUDG

3/2/12

210107

COVERS CO.

# 90

X 8869

8866-68

↖ ↗

1000

8865 RD

8870 C/L ~~8865~~

8865

PHOTOS 101-4156

57

ROAD

SHORT

8/78

# 88

X 8875

1000

8871

RD

↖ ↗

8872-74

8876 C/L 8871

8877 C/L COLONIA

PHOTOS 101-4158 ROAD

59

BRUSH

3/2/12

210107

COVER CO.

#49

X 8883

3500

8879

RD

8880-82

X 8884

8878 CW 503

8885 CW 8879

PHOTOS 101-4100 ROAD

W1 TRAIL (W3)

W2 " (SE)

8/79

#70

X 8890

5500

8886

RD

8887-89

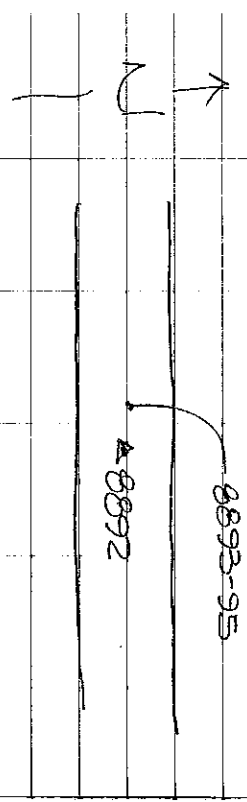
1-NOV

889 CW 8886

PHOTOS 101-4103 ROAD

W4 STREET

3 8/80  
 3/2/12  
 20107  
 LINES 60  
 # 100



X 8896

8897 C 8892

PHOTOS 101 - 4165 ROAD  
 60 SHORT

### CURVE TABLES

#### HOW TO USE CURVE TABLES

Table I. contains Tangents and Externals to a 1° curve. Tan. and Ext. to any other radius may be found nearly enough, by dividing the Tan. or Ext. opposite the given Central Angle by the given degree of curve.  
 To find Deg. of Curve, having the Central Angle and Tangent: Divide Tan. opposite the given Central Angle by the given Tangent.  
 To find Deg. of Curve, having the Central Angle and External: Divide Ext. opposite the given Central Angle by the given External.  
 To find Nat. Tan. and Nat. Ex. Sec. for any angle by Table I.: Tan. or Ext. of twice the given angle divided by the radius of a 1° curve will be the Nat. Tan. or Nat. Ex. Sec.

#### EXAMPLE

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P. = 23° 20' to the R. at Station 542+72.

Ext. in Tab. I opposite 23° 20' = 120.87  
 120.87 ÷ 12 = 10.07. Say a 10° Curve.  
 Tan. in Tab. I opp. 23° 20' = 1183.1  
 1183.1 + 10 = 1183.1.

Correction for A. 23° 20' for a 10° Cur. = 0.16  
 1183.1 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)  
 Ang. 23° 20' = 23.33° + 10 = 2.3333 = L. C.

2° 19½' = def. for sta.	542	I. P. = sta.	542 + 72
4° 49½' = " " "	+ 50	Tan. =	1. 18.47
7° 19½' = " " "	543	B. C. = sta.	541 + 53.53
9° 49½' = " " "	+ 50	L. C. =	2. 33.33
11° 40' = " " "	543 +	E. C. = Sta.	543 + 86.86
	86.86		

100 - 53.53 = 46.47 X 3 / (def. for 1 ft. of 10° Cur.) = 139.41' =  
 2° 19½' = def. for sta. 542.  
 Def. for 50 ft. = 2° 30' for a 10° Curve.  
 Def. for 36.86 ft. = 1° 50' for a 10° Curve.

