APPENDIX D

FIELD RECONNAISSANCE INFORMATION FOR BOULDER CREEK

APPENDIX D.1

BRIDGE SURVEY NOTES
(KING SURVEYORS)

2006061 ANDERSON CONSULTING
BOULDER CREEK STRUCT.

4-15-06 RE, DN, CSB

VRS

GPS - 100 -

CONV PTS - 2006 - 3114

Z008061 CONT

PRIVATE RD
PTS 100-138

WESTERMAN PROFILE

4-15-08 RE, DN, CSB

997/24

2008061

4-15-08 RE/KB/DN

SAWHILL PONDS
DIVERSION STRUCT.
PTS 139 -

#50
√139

SURVEY PT LS 20134
N: 1256190.665
E: 3082369.128
EL = 5161.78

FD SPIKE W/3/4" DPC

#51
√140

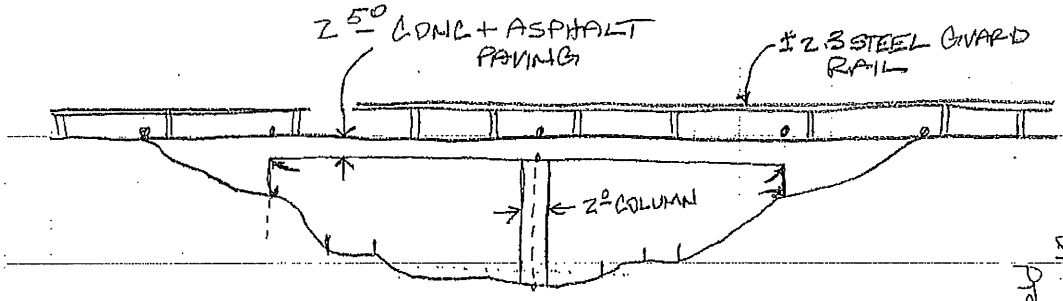
SURVEY PT LS 20134
N: 1256080.531
E: 3082674.146
EL = 5162.86

CONV. SETUP = 1

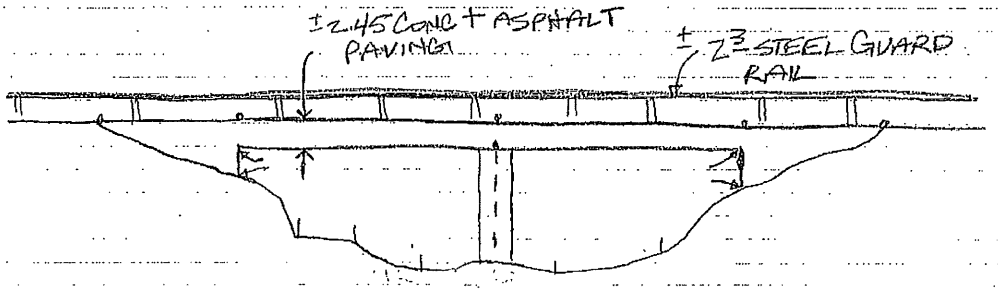
TS @ #50
BS @ #51

SURVEY PT LS20134 HI 4.70
" " " HR

HA 00-00-00 HD 324.69
PTS 2000 - 2026



UPSTREAM



DOWNSTREAM

2008061

U/S BRIDGE PTS 141-193

4-15-08

RE/CSB/DN

9971/216

2008061

PRIVATE RD
PTS 194 -

PRIVATE RD UPSTREAM

4-15-08 RE/CSB/DN

997/27

Z000061

#52 CP-TOE
✓200

#53 CP-NAIL 1
✓201

CONV. SETUP #2
TP #52 CP-TOE HI 5.49
BS #53 CP-NAIL 1 HR 4.76
HA 00-00-00 HD 21818
PTS 2027-2064

#54 CP-MAG E
✓202

#55
✓203 CP-MAG W

CONV. SETUP #3
TP #55 CP-MAG W HI 5.40
BS #54 CP-MAG E HR 4.95
HA 00-00-00 HD
PTS 2065-2124

#2121 BM BC-25

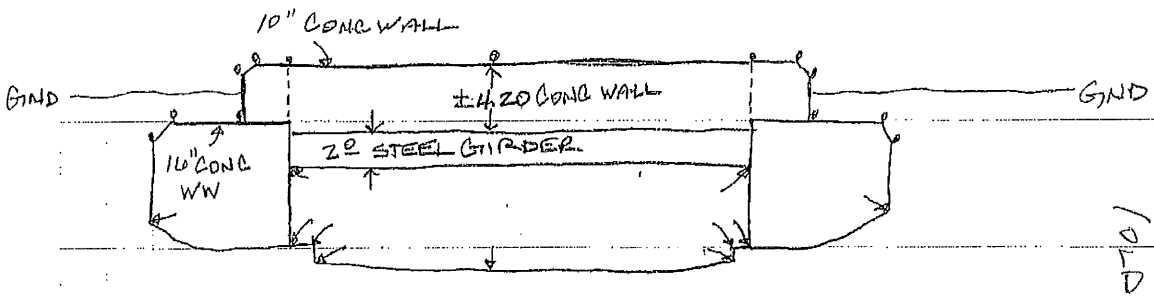
997/28

4-15-08 RE/CSB/DM

1" IN TOP OF CONC BRIDGE

SET LOD NAIL

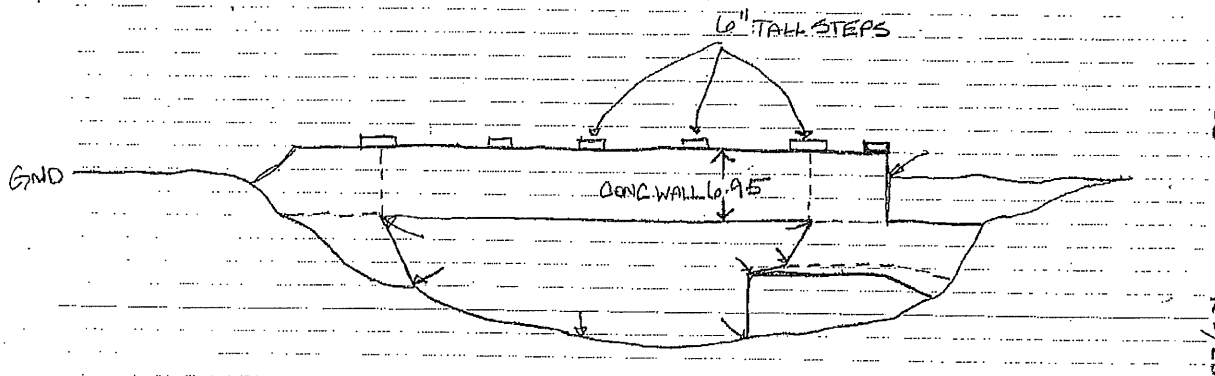
FD 2½" BRASS CAP "U.D-F.C.D BC-25
1979 LS 2279



UPSTREAM

PEDESTRIAN PATH
(OLD VALMONT RD)

2008061



4-15-08

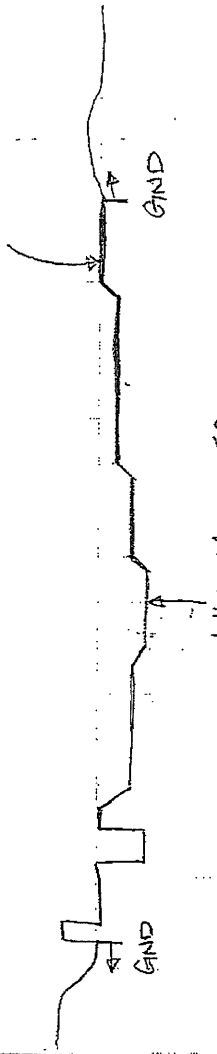
RE/CSB/DJ

997/29

2008061

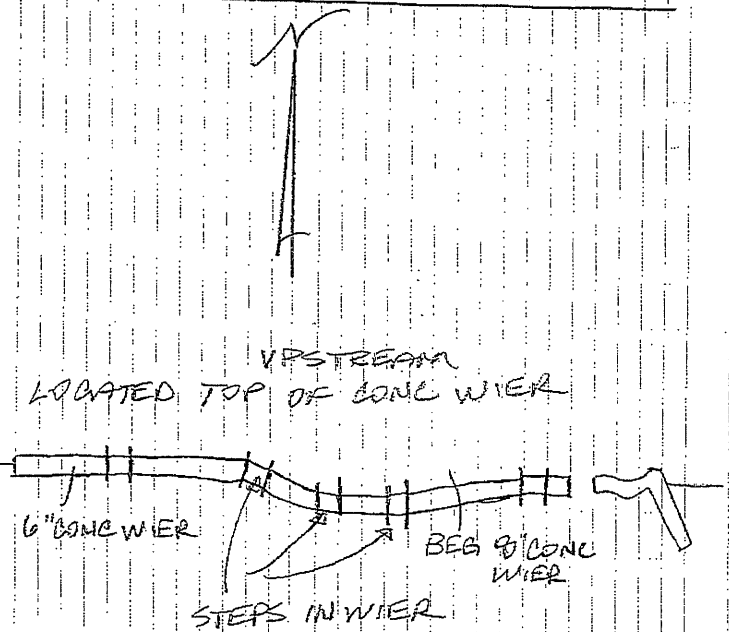
-IRR DIV. STRUCT -

PTS 204 - 248



4-15-08 RE/CSB/DN 997/30

DOWNSTREAM
LOCATED TOP OF CONC RIPRAP
AREA ± 65° D/S OF CONC WIER



2008061 55+/- ~~STREET~~

4-15-08 RE/CSB/DN

#54 CP - 55 U/S

✓249

#57 CP - MAG 55 D/S

✓250

CONV. SETUP #4

TC# 56 CP-55 U/S HI 5.42

~~BSC~~# 57 CP-MAG 55 D/S HR 5.00

~~HA 00-00-00~~ HD 223.68

PTS 2125 - 2155

CONV. SETUP #5

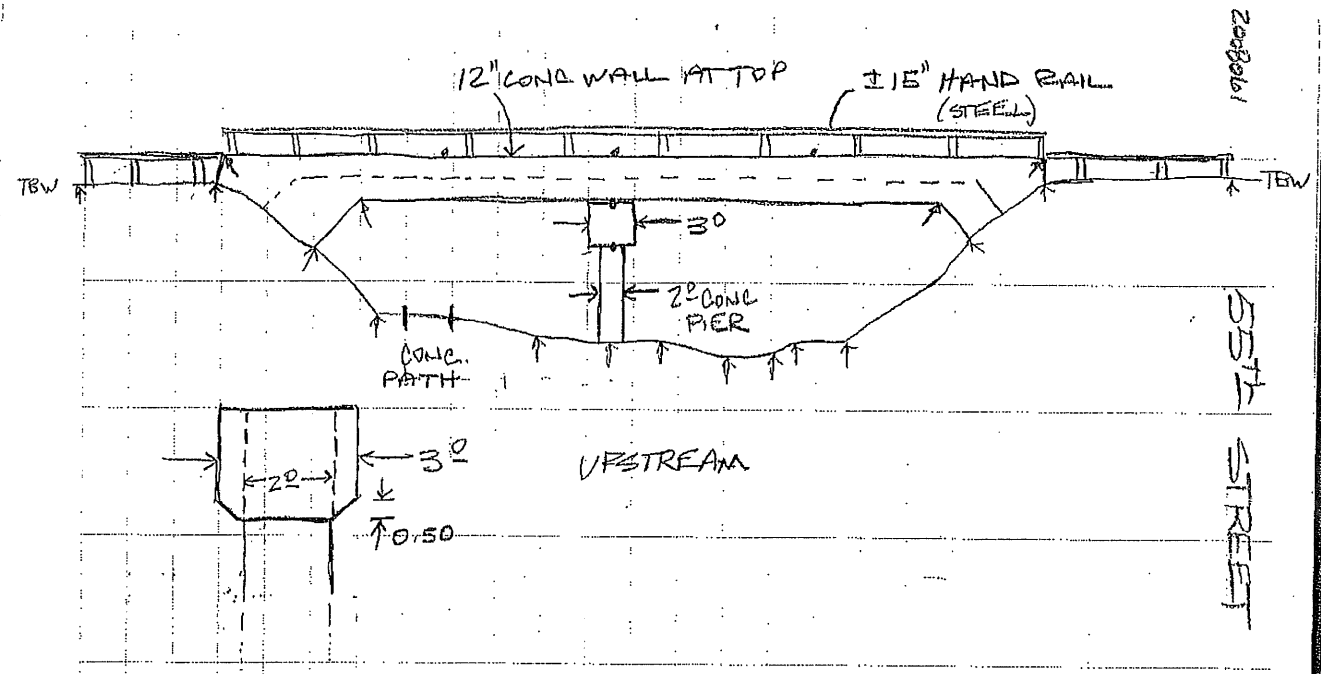
TC#57 CP-MAG 55 D/S HI 5.33

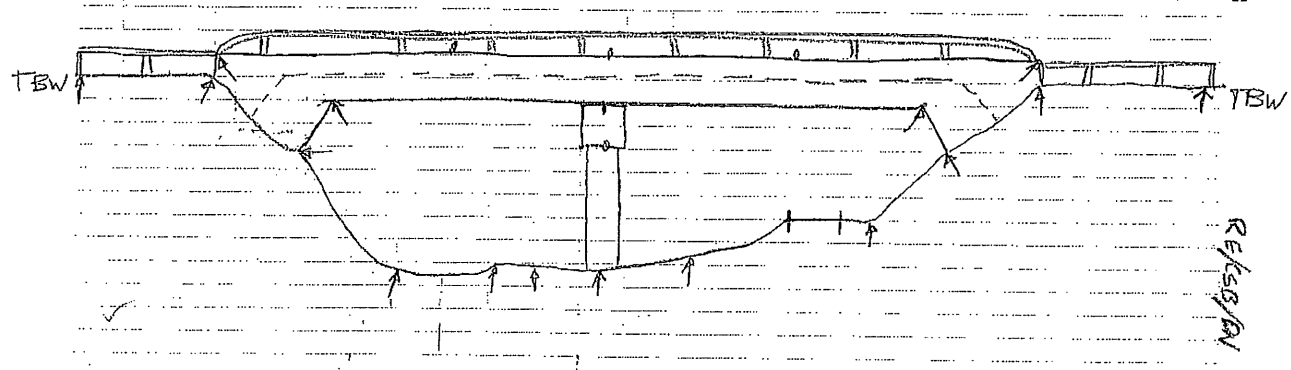
BS@#54 CP - 55 U/S HR 5.30

HA 00-00-00 HD - 223.68

PTS 2156 - 2188

GPS# 252 - 259



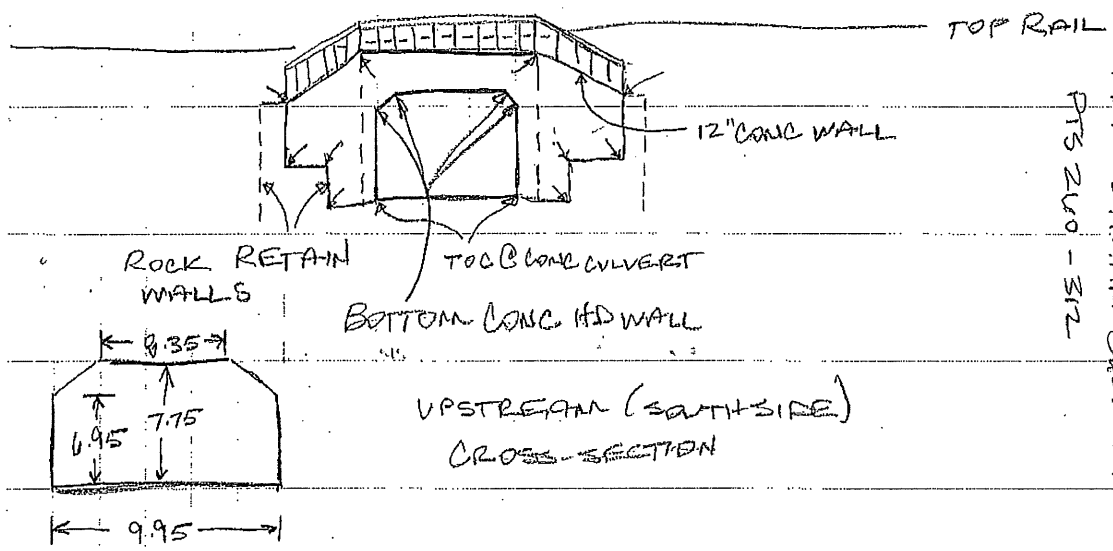


2008061

4-15-08

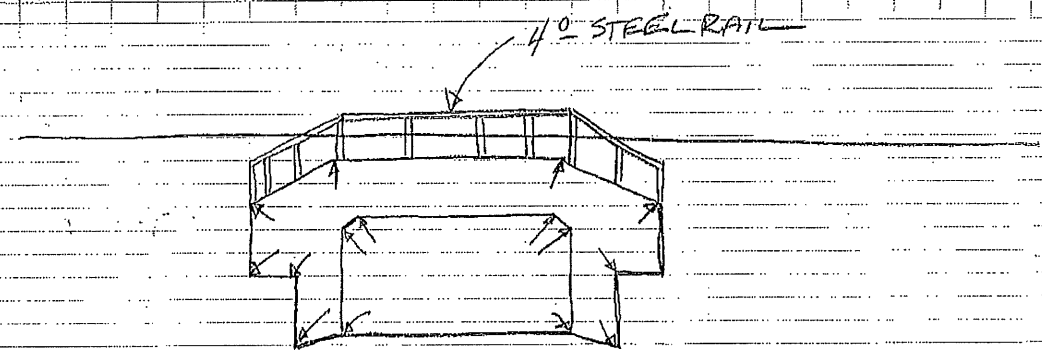
RE/KSB/DN

997/32



UPSTREAM (SOUTHSIDE)
CROSS-SECTION

PEDESTRIAN CULVERT
PTS 240 - 312



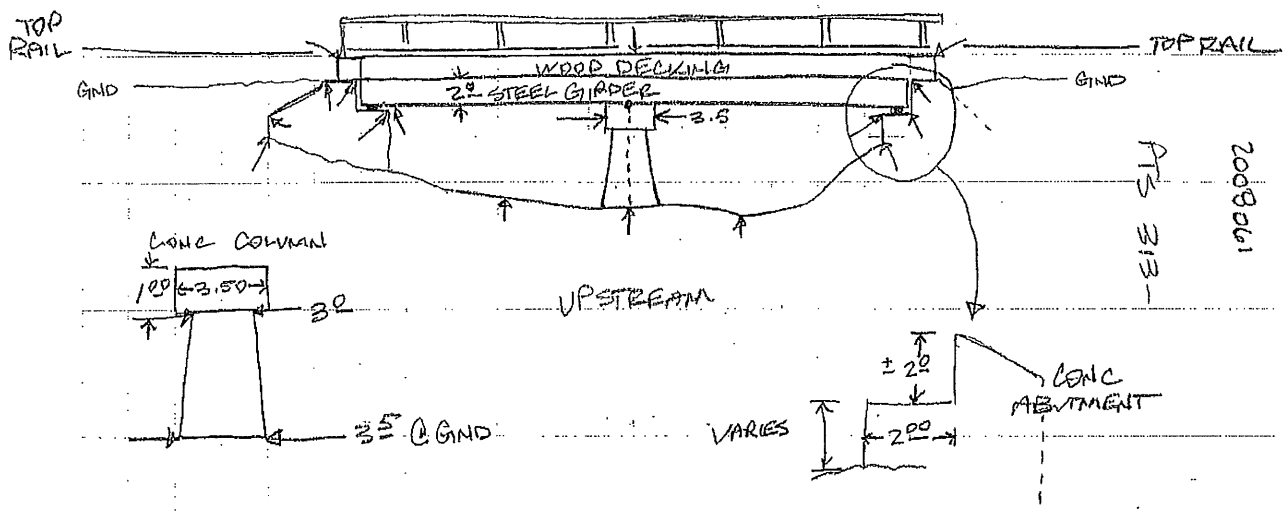
DOWNSTREAM (NORTHSIDE

4-16-08

RE/CSE/DN

967/33

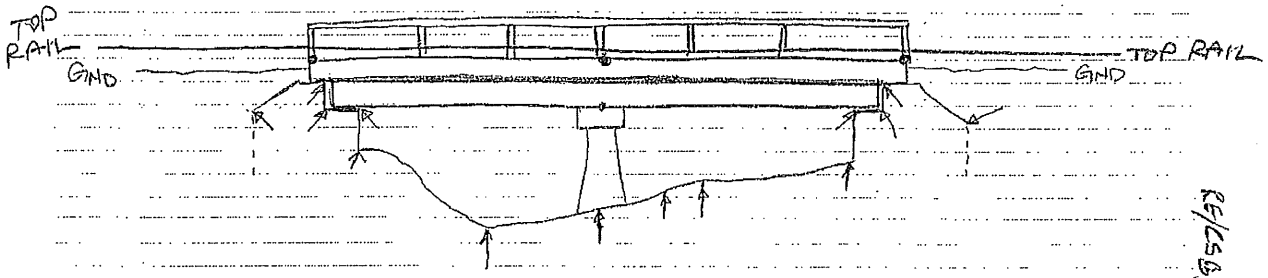
3.7 STEEL CABLE RAIL (2 CABLES)



PTS 313-

2008061

4-16-08



DOWNSTREAM

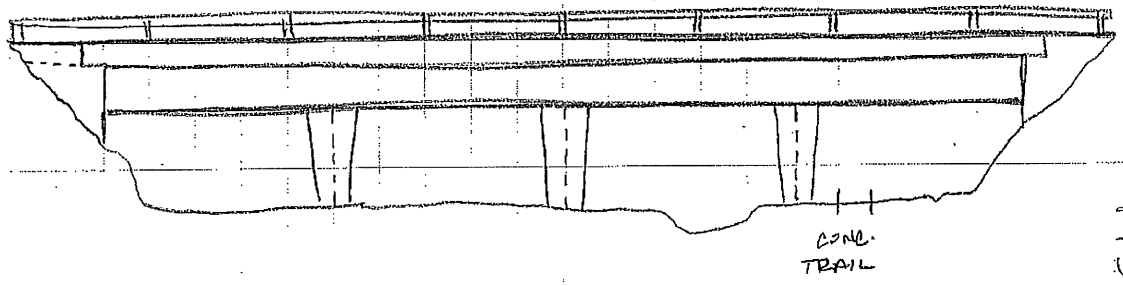
RE/CSB/DW

997/34

2008061

FOOTHILLS PKWY

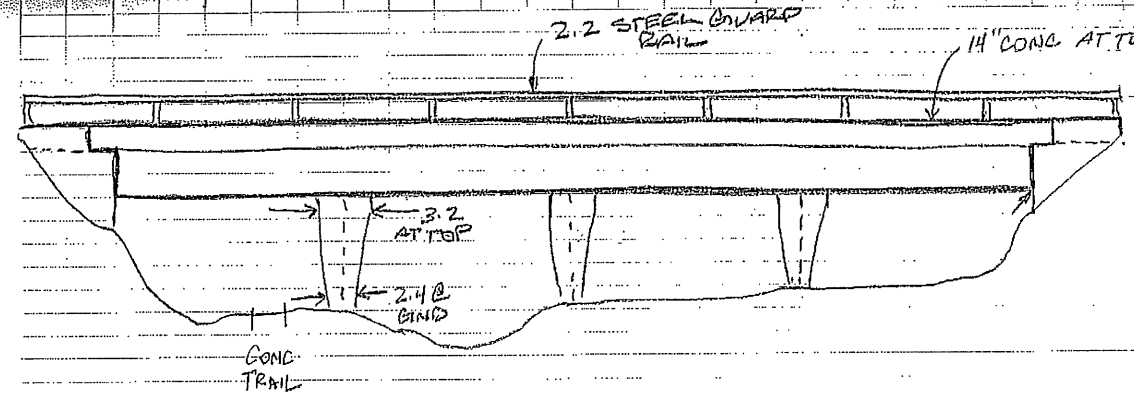
PTS 374 - 459



UPSTREAM

4-16-08

RE/CSB/DN



9971/35

2008061

#580 CP - ARAP. V/S
✓460

#59 CP - X ARAP.
✓461

#60 CP - ARAP D/S
✓462

CONV. SETUP

TC#58 CP-ARAP V/S HI 5.46
BSC#59 CP - X ARAP HR 2.75
HA 00-00-00 HD 95.94
PTS 2189 - 2231

CONV. SETUP

TC#59 CP-X ARAP HI 2.92
BSC#60 CP-ARAP D/S HR 5.17
HA 00-00-00 HD 128.89
PTS 2232 - 2295

-CONV. SETUP-

TC#60 CP-ARAP D/S 5.33
BSC#59 CP-X ARAP 2.75
HA 00-00-00 HD
PTS 2296 - 2330

#2329 V438

4-16-08 RE/CSB/DN

997/36

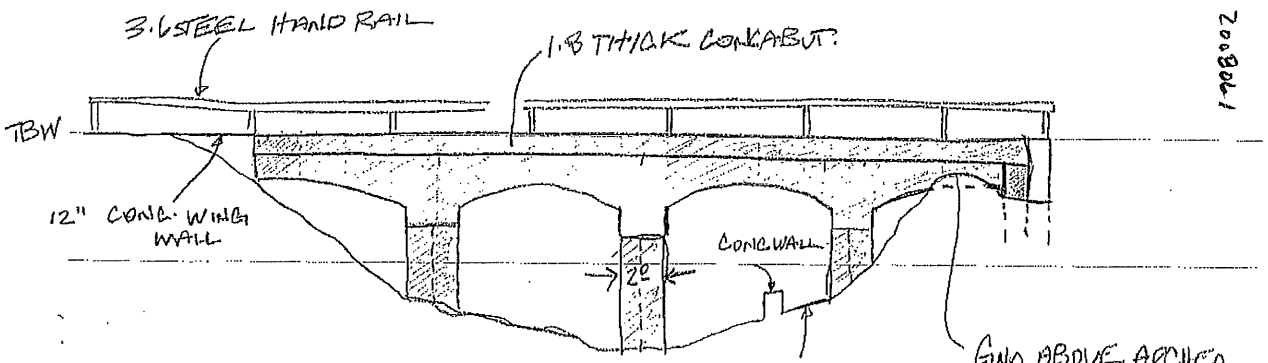
SET #4X24" RB W/2" AC KS1

MARKER "X" ON TOP OF CONC. WALL

SET #4X24" RB W/ 2" AC KS1

* PTS 2246 & 2247 BAD SHOTS & 2248

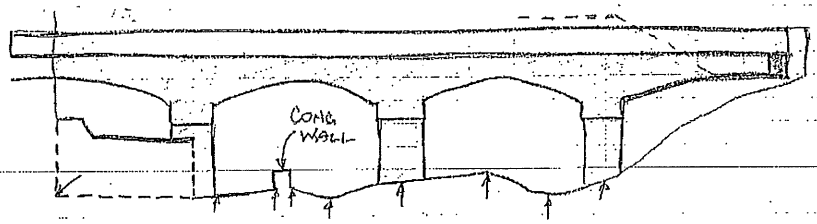
FD 3 1/2" BR. CAP "1985 V438"



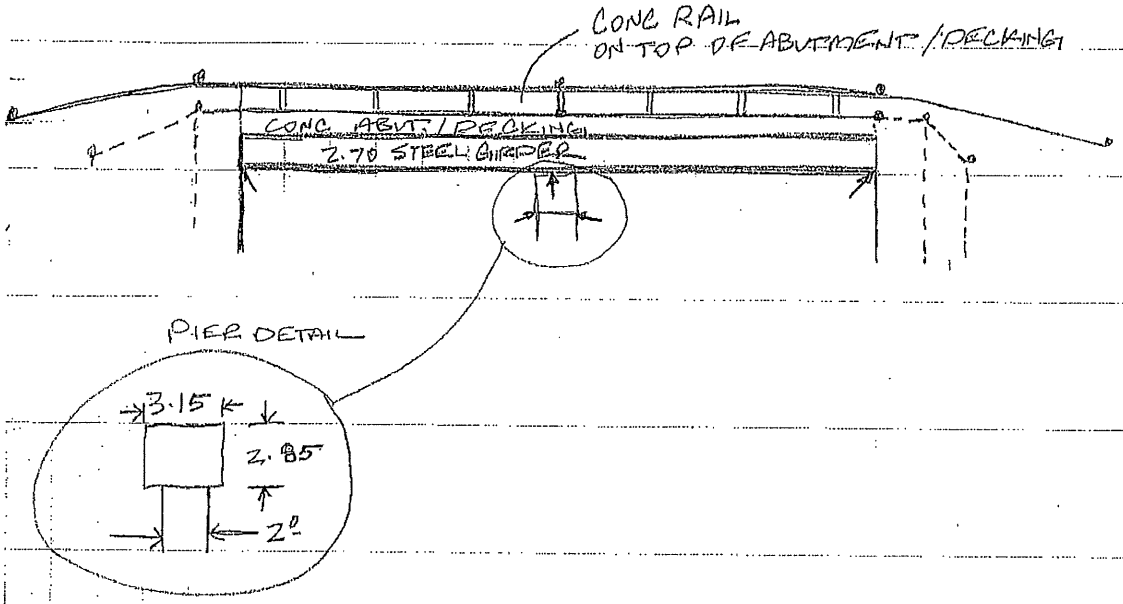
SHOTS TAKEN @ ARCHED GIRDER B/N COLUMNS

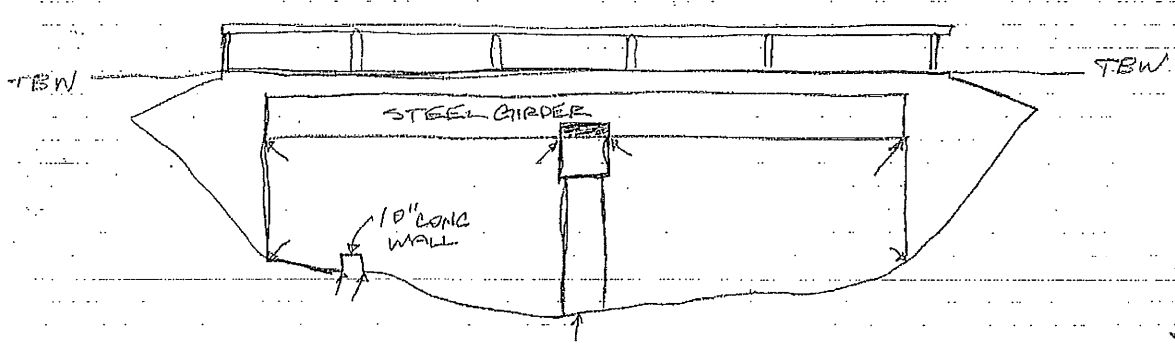
WING WALL @ EAST END (TOP VIEW)

ARAPAHOE AVE
UPSTREAM EASTBOUND



ARAPAHOE AVE
DOWNSTREAM EASTBOUND





2008061

4-16-08

RE/CSB/DW

997/38

2008061

1
✓ ~~#3~~ 463

FOR INFORMATION TO REPORT DAMAGE OR LOSS OF VERTICAL CONTROL MARK
✓ 438
1985
THE DIRECTOR
NATIONAL GEODETIC SURVEY
WASHINGTON D.C.

#61 CP 30 D/S
✓ 473
N - 1247001.338
E - 3069102.761
EL - 5265.724

#62 CP - 30 U/S
✓ 474
N - 1247003.408
E - 3068987.429
EL - 5266.291

4-17-08 DW/CE

FND 3½" BC IN CONC
NE WING WALL
NO. ARAPAHOE ST

997/39

2008061

CONV SETUP

T@ CP-30 u/s #62 HI - 5 41

BS@ CP 30 D/S #61 HR - ~~4 80~~ 4 71

HA 00-00-00 HD - 115.43

PTS 2331 - 2358

2359 TRAVERSE

NEW SETUP

T@ CP-30 D/S # 2359 HI 4 88

BS@ CP-30 u/s # 62 HR 5 28

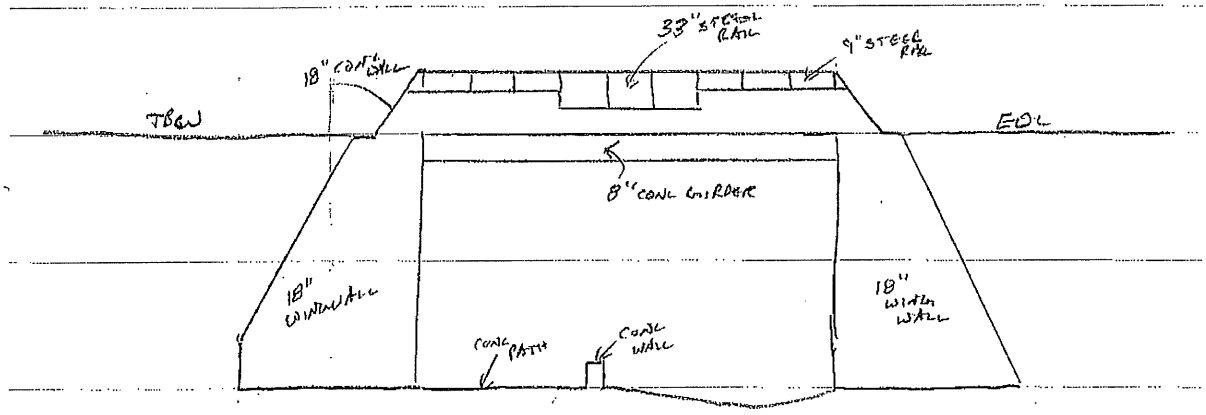
HA 00-00-00 HD-115.43

PTS 2360 - 2395

4-17-08 DN/CE

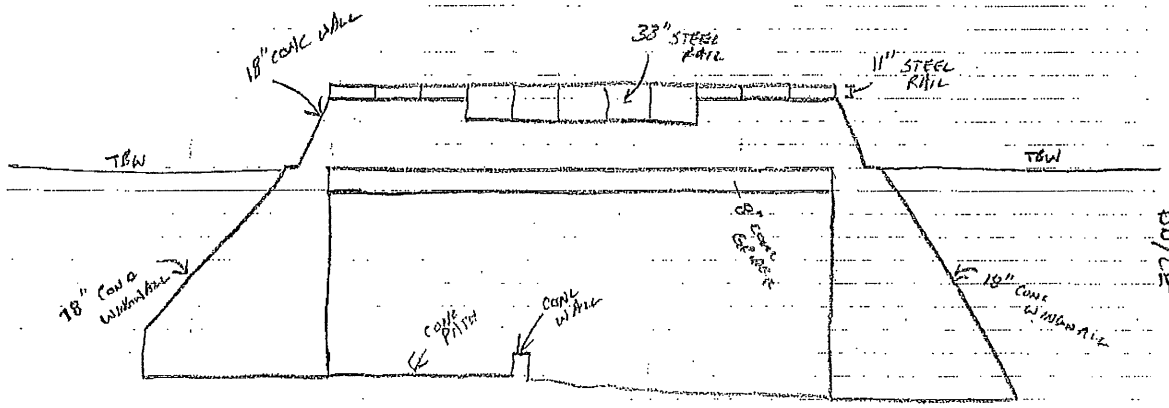
997/40

2008061



30th STREET UP/STREAM

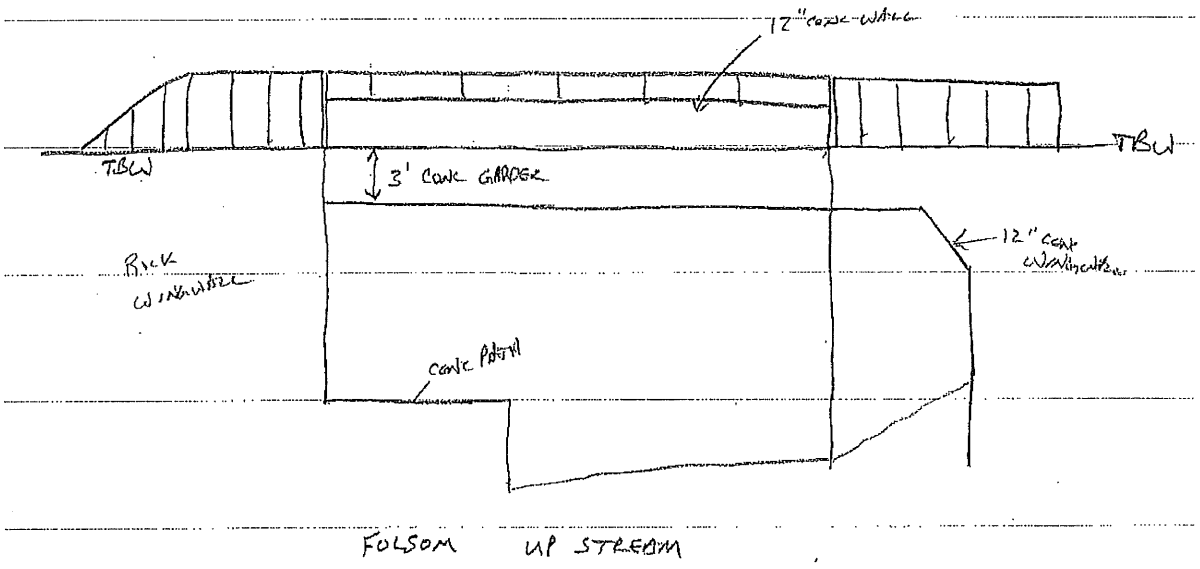
4-17-08



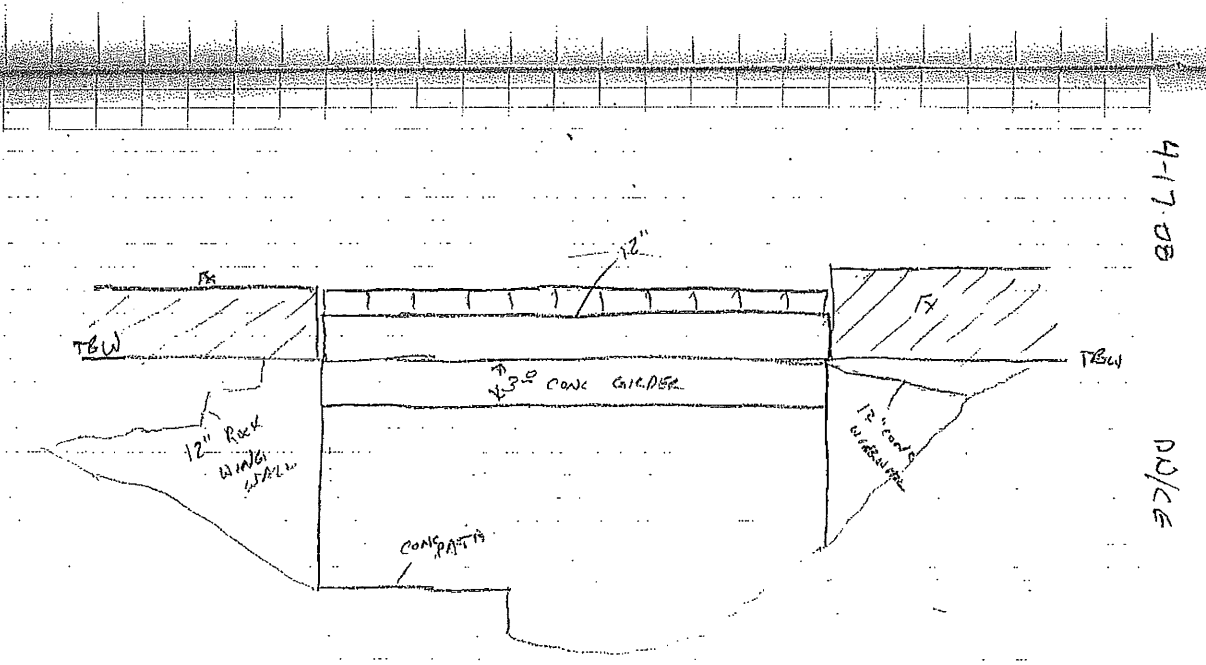
30th STREET DOWN STREAM

DJ/LE

24/41



FOLSOM UP STREAM



FOLSOM DOWN STREAM

2008061

4-17-08 DN/CE

947/43

X-SECTION XS-11

63 CP-MAG XS11
✓553
N - 1247014.702
E - 3066566.477
EL - 5294.15

64 CP-MAG S
✓554
N - 1246978.774
E - 3066695.612
EL - 5292.72

℄ @ #63 CP-MAG XS 11 HI - 5.45
BS @ #64 CP-MAG S HR - 5.13
HA - 00-00-00 HD - 134.09
PTS 2396-2418

2008061 FOLSOM PATH

#65 √555 CP-FOLSOM D/S
N - 1246988.441
E - 3065675.787
EL - 5300.696

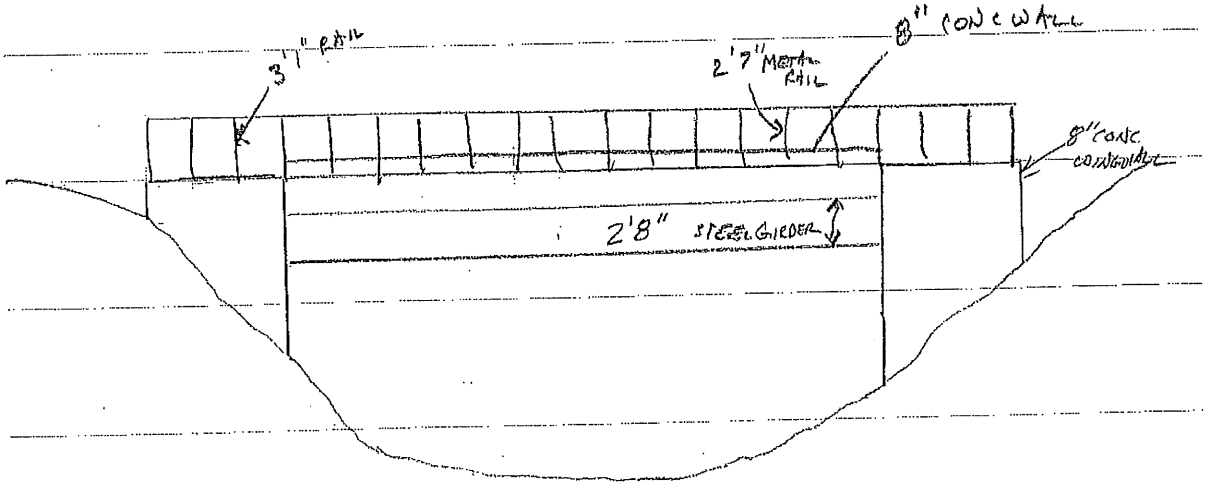
#66 √556 CP-FOLSOM W/S
N - 1247027.150
E - 3065560.362
EL - 5305.544

T@#66 CP-FOLSOM W/S HI - 5.52
BS@ #65 CP-FOLSOM D/S HI - 5.44
HA - 00-00-00 HD - 121.79
PTS 2412 - 2451
2452 TRAVERSE

(pt# 2452)
T@#65 FOLSOM D/S HI - 5.58
BS@#66 CP-FOLSOM W/S HI - 5.35
HA - 00-00-00 HD - 121.79
PTS 2453 - 2478

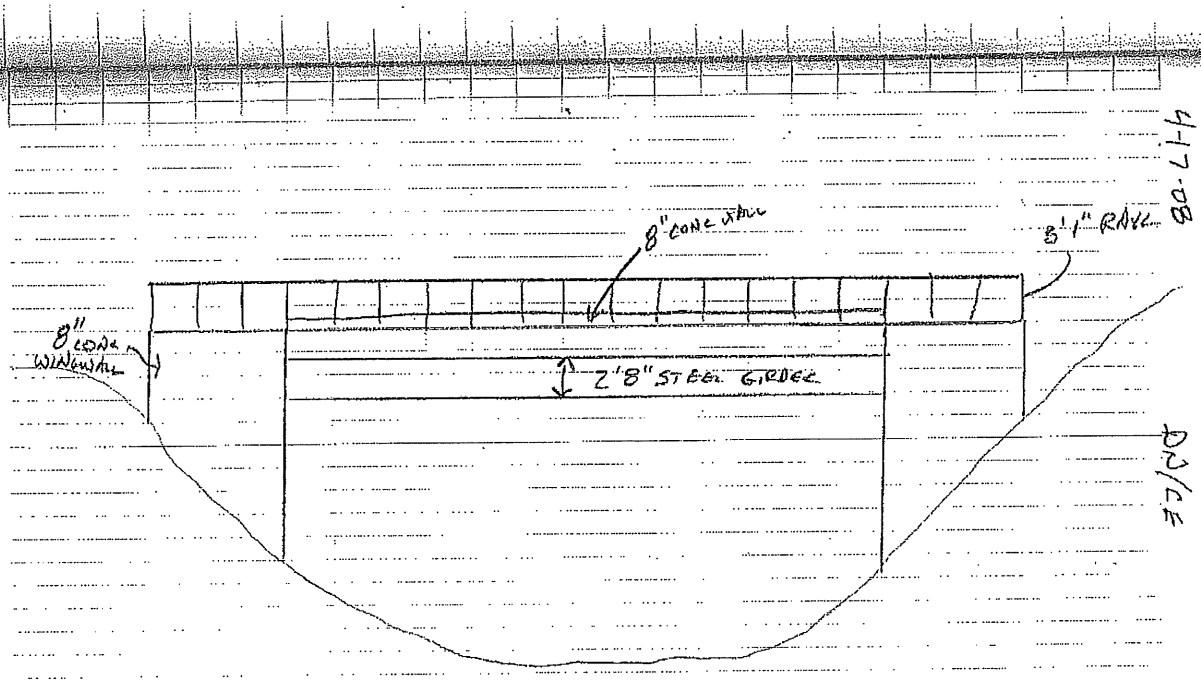
4-17-08 DW/CE

2008061



FOLSOM PATH W/S

4-17-08

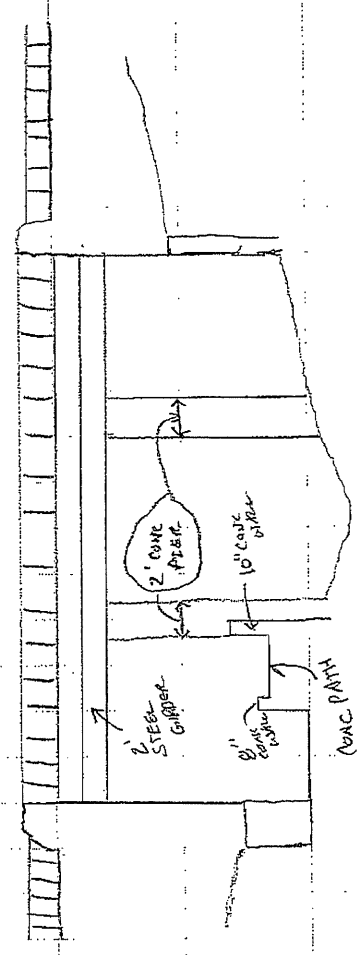


DN/CE

FOLSOM PATH D/S

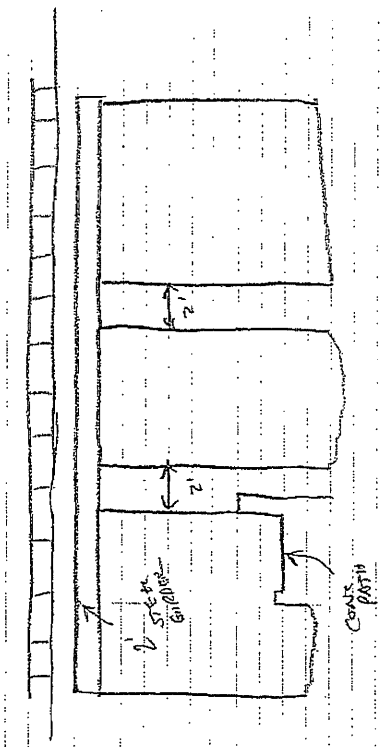
997/45

2008061



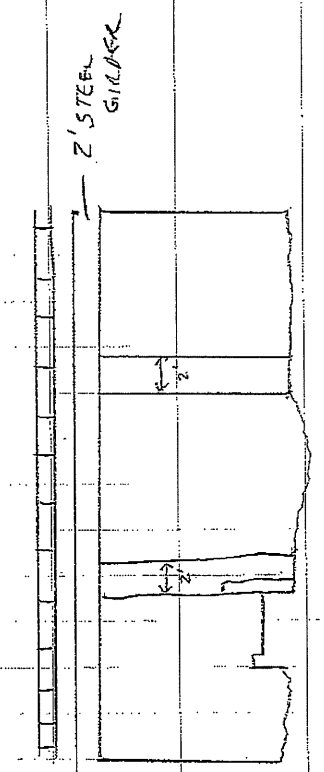
FRONTAGE ROAD D/S

4-18-08 DN/JA



FRONTAGE RD U/S

2008061

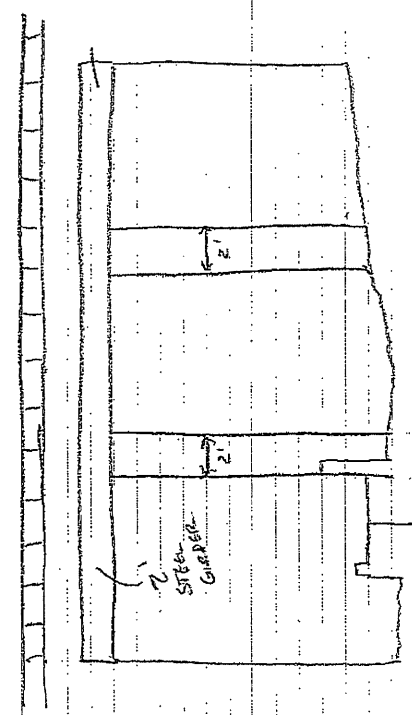


NORTH BOUND 28th D/S

4-18-08

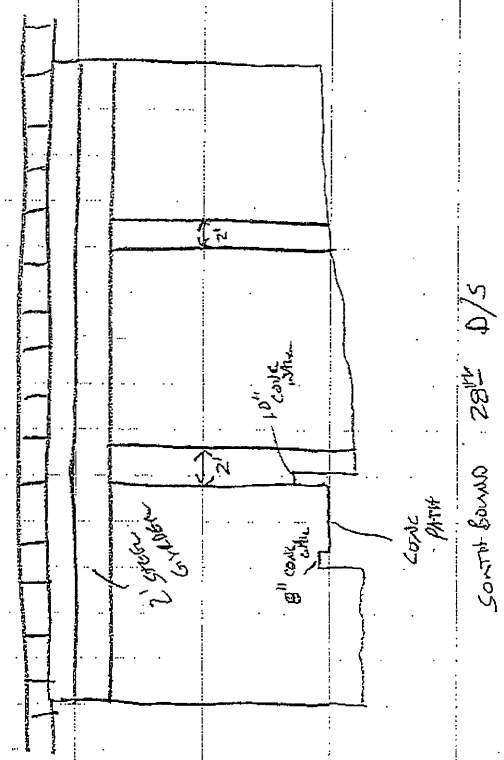
DN/TA

997/47



NORTH BOUND 28th U/S

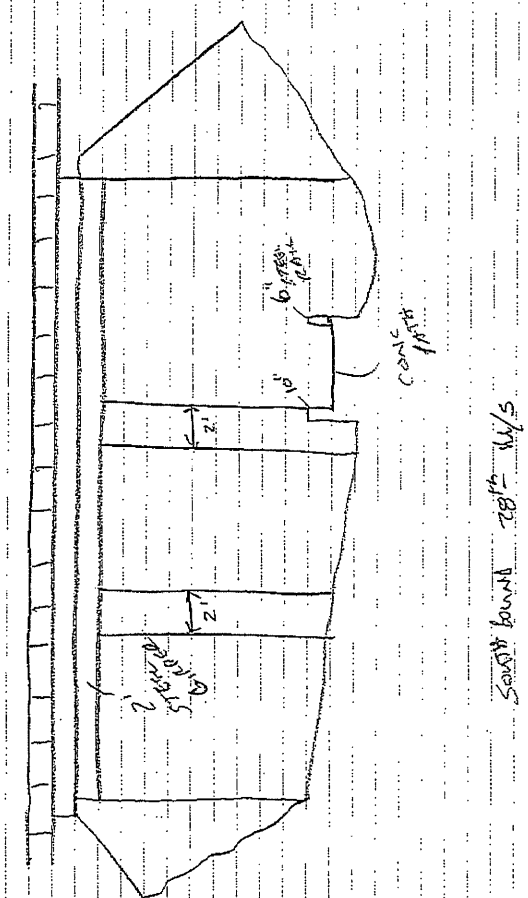
2008061



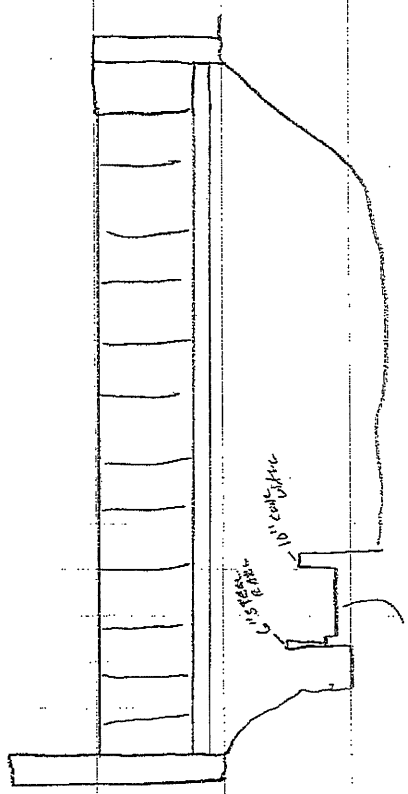
4-18-08

DN/TA

997/48



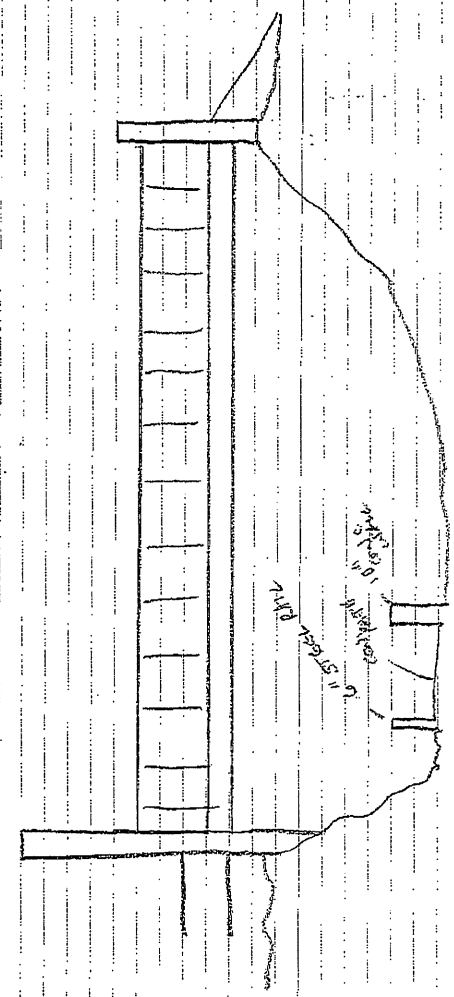
2008061



PED PATH D/S

4-18-08 DN/TA

997/49



PED PATH U/S

2008061 XS-12 4-10-08 DN/JA

#10000 ✓10001 CP-GORDY
N-1247145.363
E-3067719.065
EL-5291 69

#67 ✓68 CP-CRASH
N-1246920.224
E-3067830.841
EL-5289 16

℄ @ #67 CP-CRASH HI-5 29
BS @ #10000 CP-GORDY HR-4 73
HA 00-00-00 HD-251 41
PTS 2479-2494

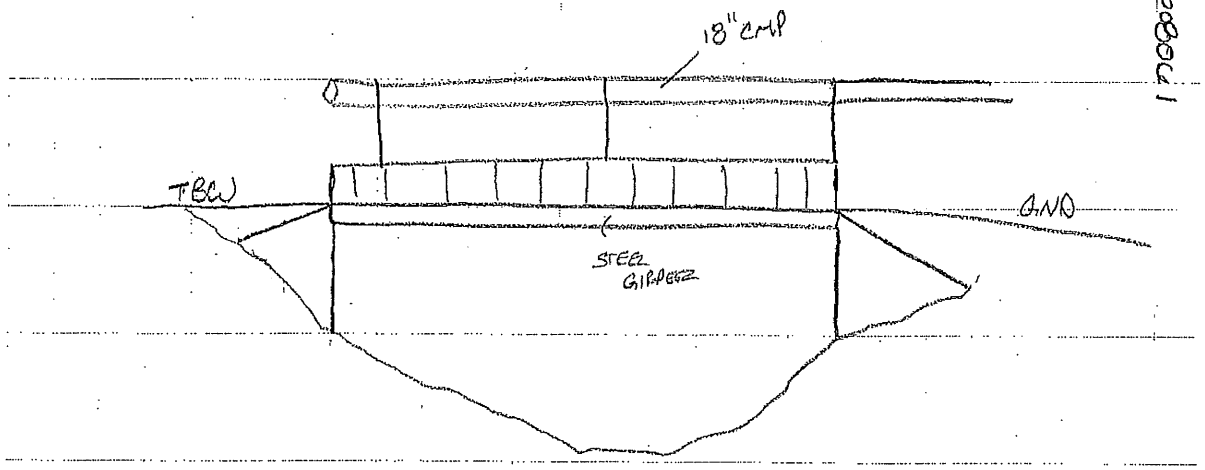
2008001 STADIUM PATH

4-18-08 DN/TA

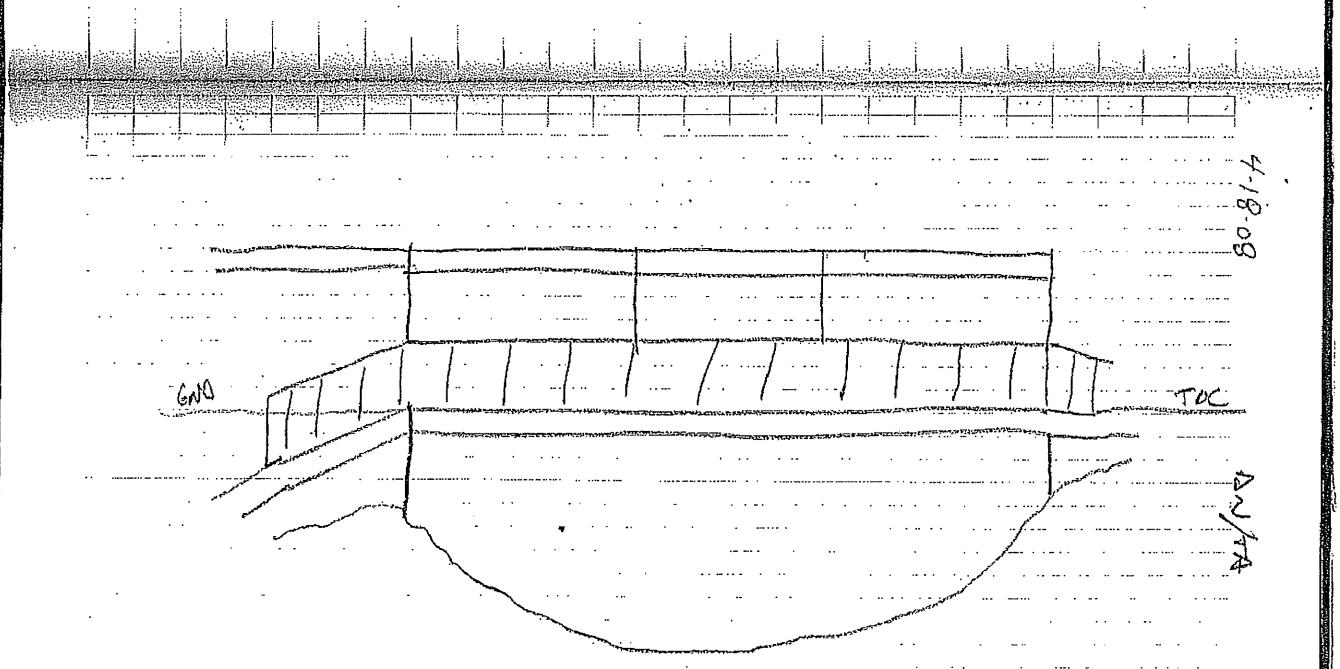
69 ✓858 CP-PATH
N-1247153.425
E-3064396.418
EL-5313.897

70 ✓859 CP-PIPE
N-1247014.415
E-3064415.168
EL-5314.543

TA @ #69 CP-PATH HI-5.40
BS @ #70 CP-PIPE HR-497
HA-00°00'00" HD-140.285
PTS 2495-2558



STADIUM PATHWAY N/S



STADIUM PATHWAY S/S

2008061 CONT

4-21-08 DN/DM

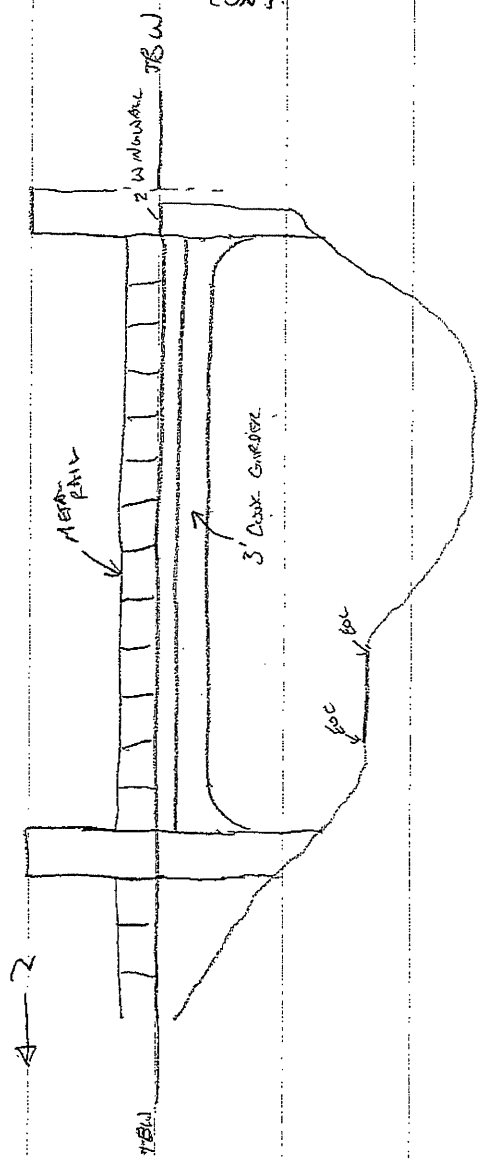
GPS 862-941

#71 ✓860 CP-17th N/S
N - 1247280.483
E - 3063670.538
EL - 5320.218

#72 ✓861 CP-17th D/S
N - 1247283.880
E - 3063779.378
EL - 5320.818

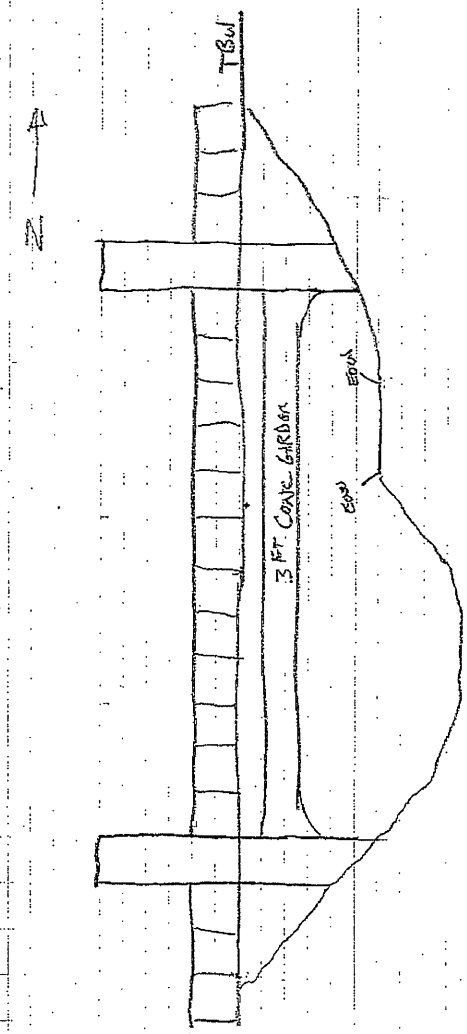
TB @ #71 CP-17th N/S HI - 5.24
BS @ #72 CP-17th D/S HT - 4.90
HA - 00-00-00. HD - 108.96
PTS 2559 - ~~2584~~ 2583

2008061 CONT.



17th U/S

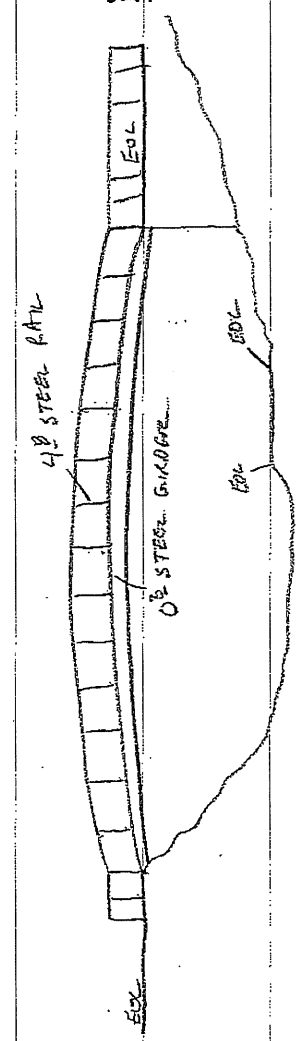
4-21-08 DN/DM



17th D/S

2008061

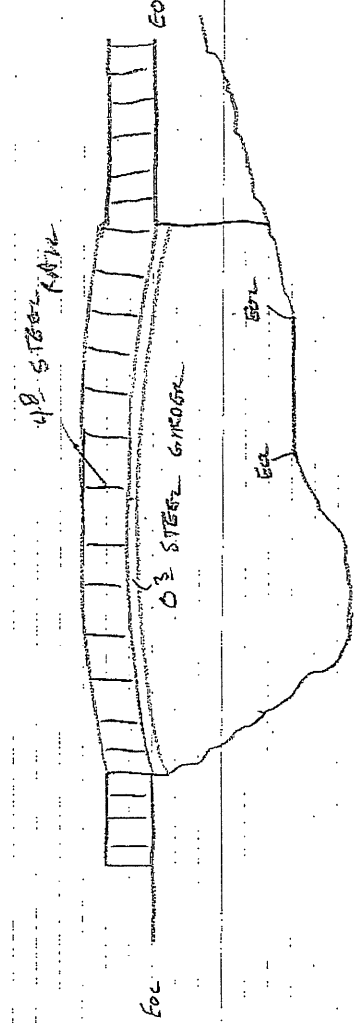
CONT



BHS PED PATH D/S

4-21-08

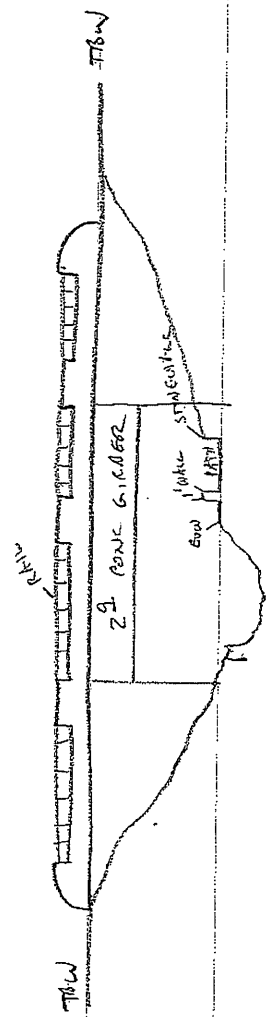
DN/DM



BHS PED PATH U/S

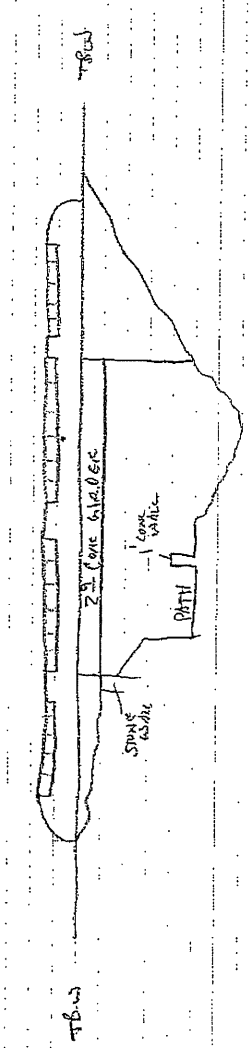
957/55

2008061 CONT.



ARAPAHOE AVE (MID) D/S

4-21-08 DN/DM 997/56



ARAPAHOE AVE (MID) U/S

2008061 MONT 4-21-08 DN/BM

#73 ✓1083 CP-X D/S
N - 1248397.726
E - 3061639.223
EL - 5348.543

#74 ✓1084 CP-X U/S
N - 1248247.870
E - 3061563.922
EL - 5350.746

TⓅ #74 CP-X U/S HI - 5.20
BSⓅ #73 CP-X D/S HR - 4.78
HA - 00-00-00 HD - 167 59
PTS - 2584 - 2595

TⓅ #73 CP-X D/S HI - 4.93
BSⓅ #74 CP-X U/S HR - ~~5.00~~ 4.90
HA - 00-00-00 HD - 167 59
PTS - 2596 - 2607

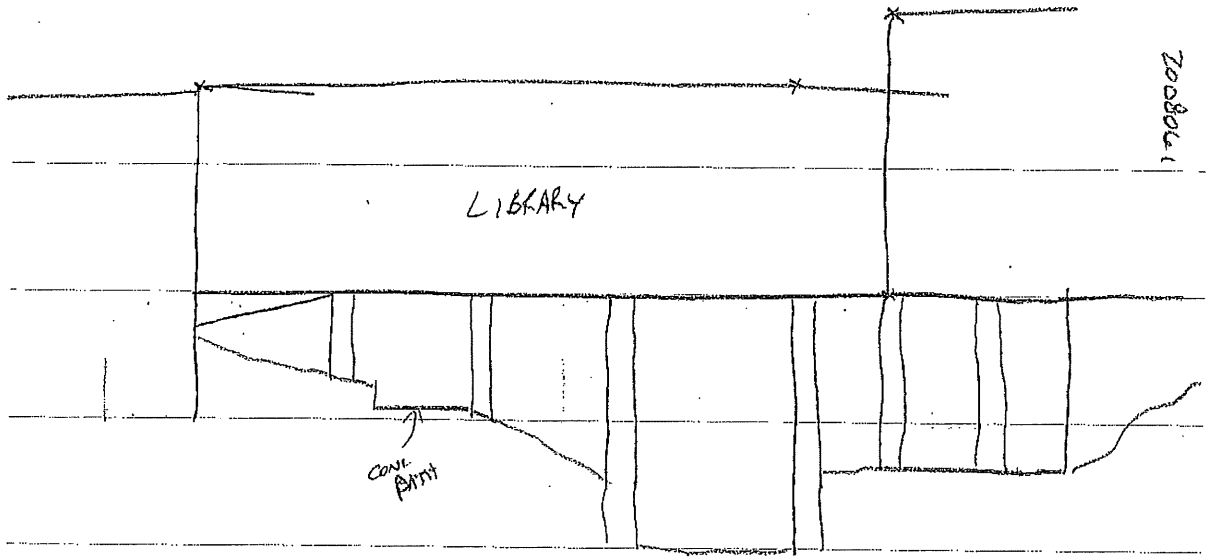
2008061 CONT

4-23-08 DN/TL

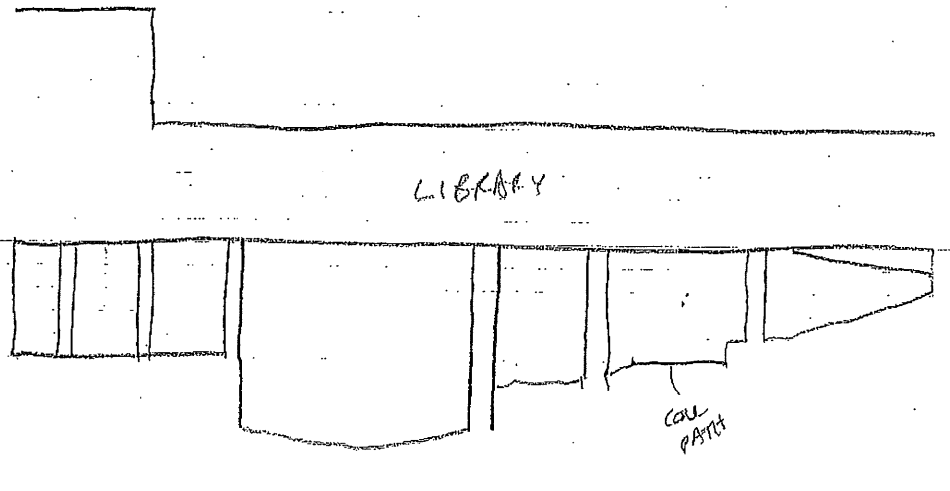
# 75	✓1085	CP-LIBRARY D/S N - 1248272.341 E - 3061140.836 EL - 5352.794
# 76	✓1086	CP-LIBRARY U/S N - 1248218 2.223 E - 3060987.326 EL - 5353.723

T@ CP-LIBRARY U/S #76 HI - 5.33
BS@ CP-LIBRARY D/S #75 HR - 5.41
HA - 00-00-00 HD - 164.82
PTS 2608 - 2660

T@ #75 CP-LIBRARY D/S HI - 5.32
BS@ #76 CP-LIBRARY U/S HR - 5.13
HA - 00-00-00 HD - 164.82
PTS - 2662 - 2747

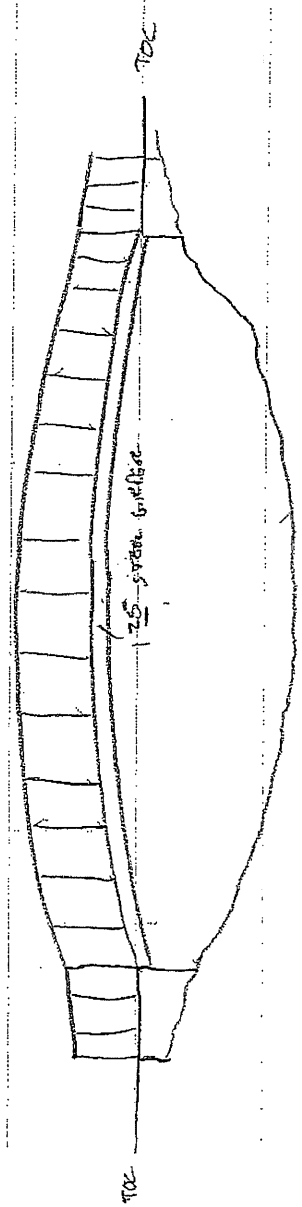


LIBRARY W/S



LIBRARY D/S

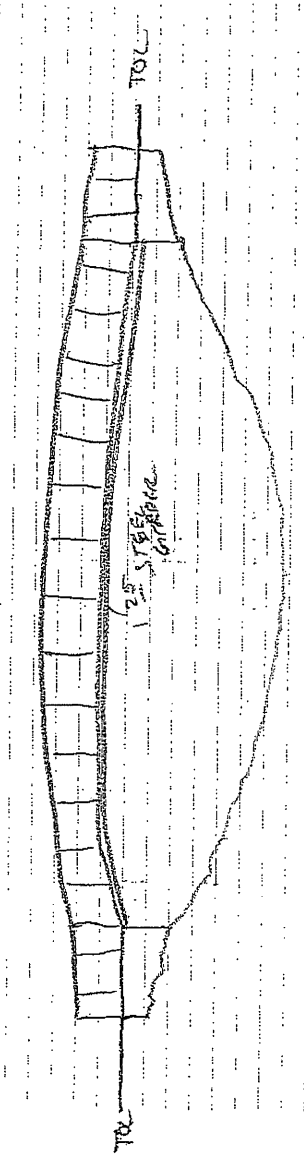
2008061



PATH U/S @ LIBRARY

4-23-08 DN/TL

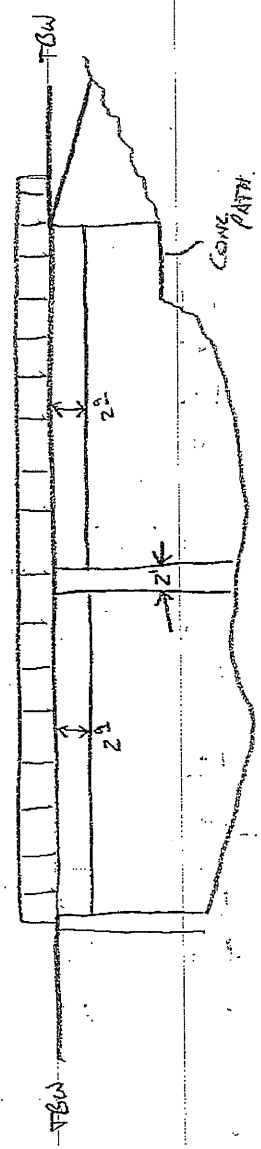
997/60



PATH D/S @ LIBRARY

2008061

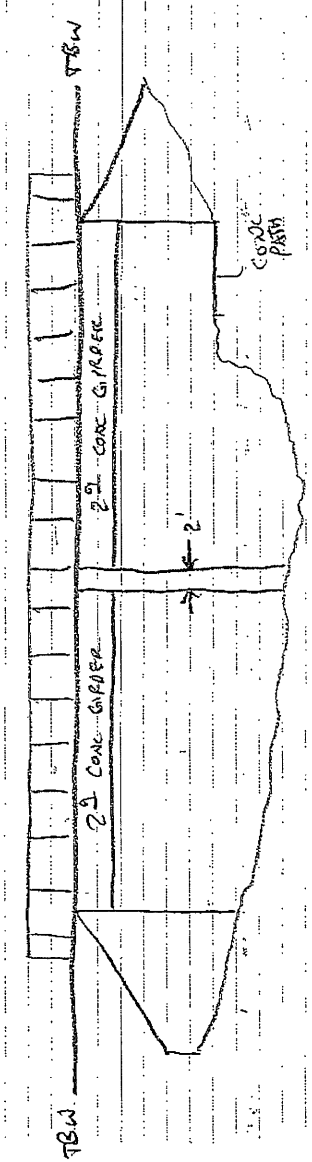
CONT



9th ST D/S

4-23-08

DN/TL



9th ST. U/S

997/61

20080801 CONT

#77 ✓1153 CP-6th
N - 1247852.708
E - 3059615.779
EL - 5379.697

#78 ✓1154 CP-PATH
N - 1248028.621
E - 3059617.069
EL - 5377.555

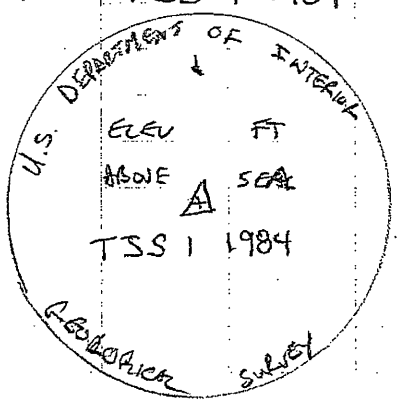
TT@#77 CP-6th HI - 5 44
BS@#78 CP-PATH HR - 5 28
HA - 00-00-00 HD - 175 82
PTS - 2748 - 2805

#79 BM TJS-1-1984
✓1155

U.S. DEPARTMENT OF INTERIOR
ELEV FT
ABOVE SEA
TJS 1 1984
GEOLOGICAL SURVEY

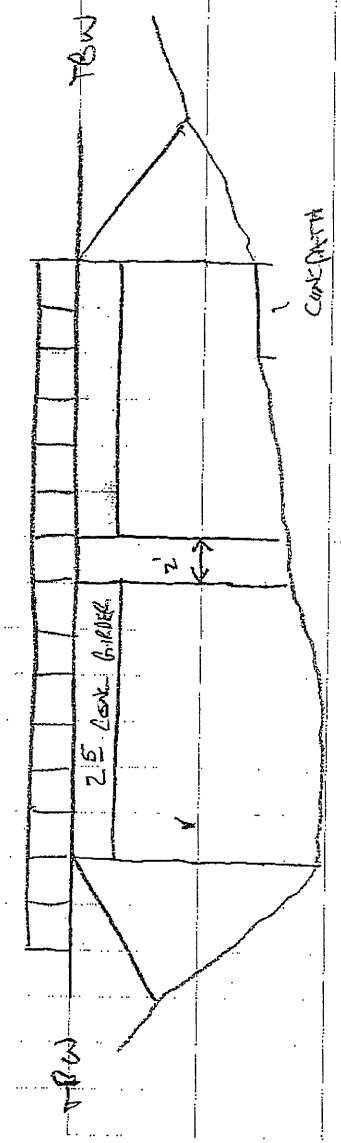
4-23-08 DN/TL

997/62



2008061

CONT

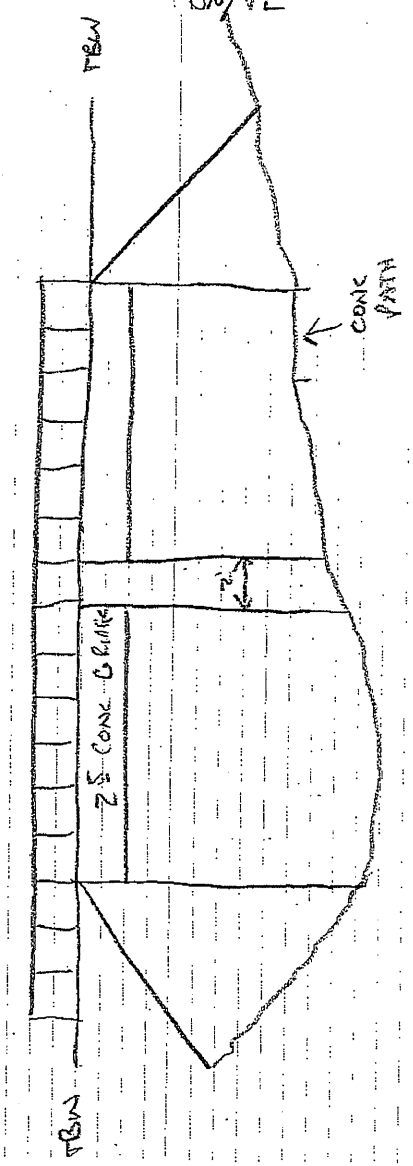


6th D/S

4-23-08

997/63

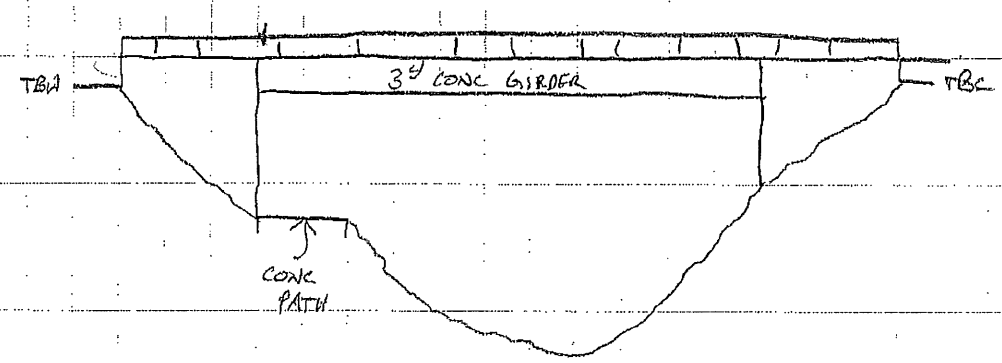
DN/TL



6th U/S

3⁴ CONC GIRDER

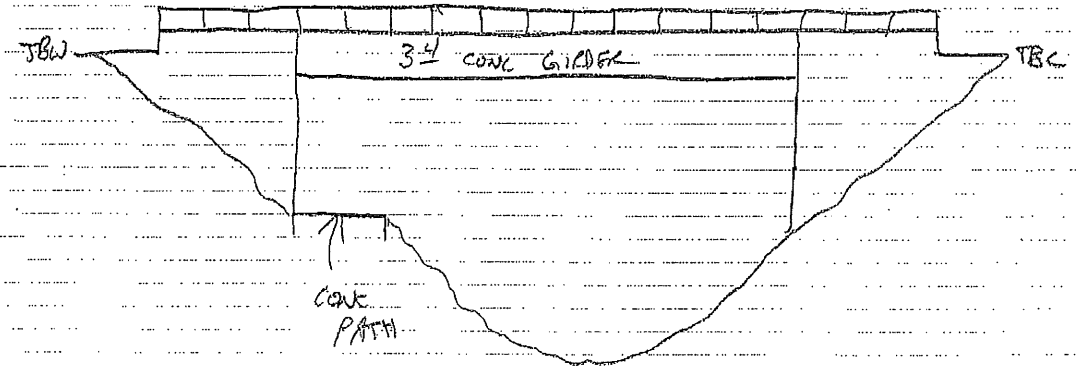
20080161



CONT

ARAPAHOE AVE U/S

4-23-08



DN/TL

ARAPAHOE AVE D/S

957/64

2008061 Cont

4-24-08 DW/DM

#80 √1205 CP-WP NAIL
N - 1247944.185
E - 3059172.723
EL - 5377.498

#81 √1206 CP-WP2
N - 1247985.733
E - 3059114.397
EL - 5380.356

XS-6

TO #80 CP-WP NAIL HI - 5.5'
BS @ #81 CP-WP2 HR - 4.66
HA - 60-00-00 HD - 71.64
PTS - 2800 - 2815

2008061 CONT 4-24-08 DW/DM

XS - 5

#82 ✓1207 WP 3
N - 1247814.426
E - 3057564.508
EL - 5404.381

#83 ✓1208 WP 4
N - 1247764.639
E - 3057388.403
EL - 5407.038

T @ #83 WP 4 HI - 5 26
BS @ #82 WP 3 HR - 4 68
HA - 00 00 00 HD - 183 13
PS 2816 - 2878

2008061 CONT

4-24-08 DJ/DM

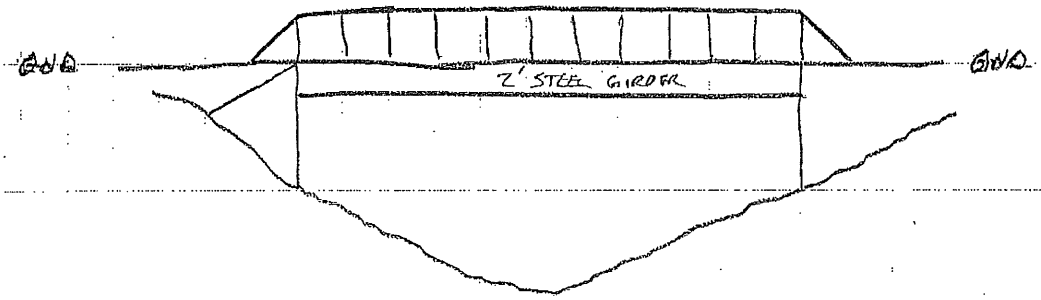
#84 ✓1222 CP-IRR
N - 1247862.096
E - ~~3022~~ 3055964.687
EL - 5453.265

#85 ✓1223 CP-XSZ
N - 1247851.284
E - 3055821.187
EL - 5456.448

TO #84 CP-IRR HI - 5.42
BS TO #85 CP-XSZ HR - 5.14
HA - 00-00-00 HD - 143.92
PTS 2829 - 2875

TO #85 CP-XSZ HI - 5.27
BS TO #84 CP-IRR HR - 5.27
HA - 00-00-00 HD - 143.92
PTS - 2874 - 2940

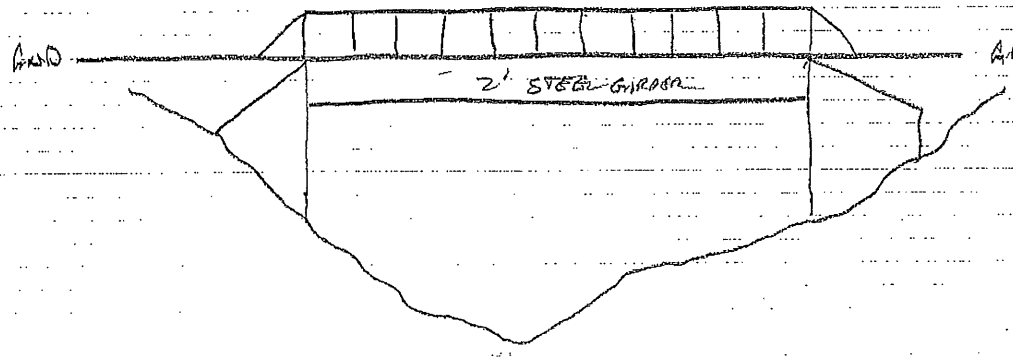
2008961



Const

PED PATH (OLD ARAPAHOE AVE) U/S

4-24-08



PED PATH (OLD ARAPAHOE AVE)

Adj/Am

97/68

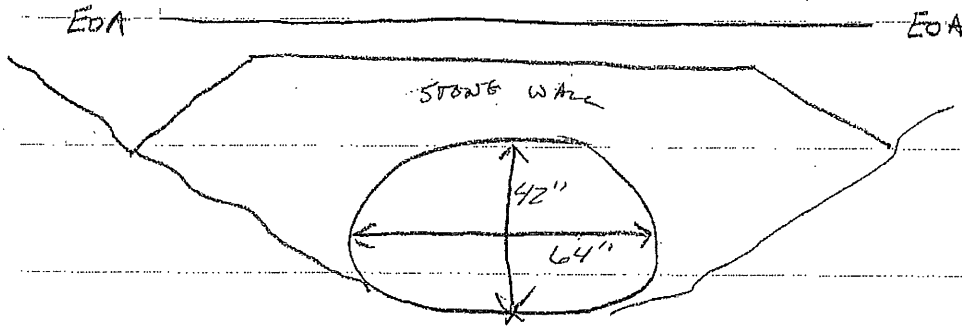
2008061 CONT 4-24-08 DN/BM

#86 √1236 CP-PK 61
N - 1258242.017
E - 3080716.717
El - 5178.623

#87 √1237 CP-PK NORTH
N - 1258378.085
E - 3080713.158
El - 5180.638

TO #86 ~~1236~~ CP-PK 61 HI - 545
BS TO #87 CP-PK NORTH HR - 490
HA - 00.00-00 HP - 136 14
PTS 2944 - 2967

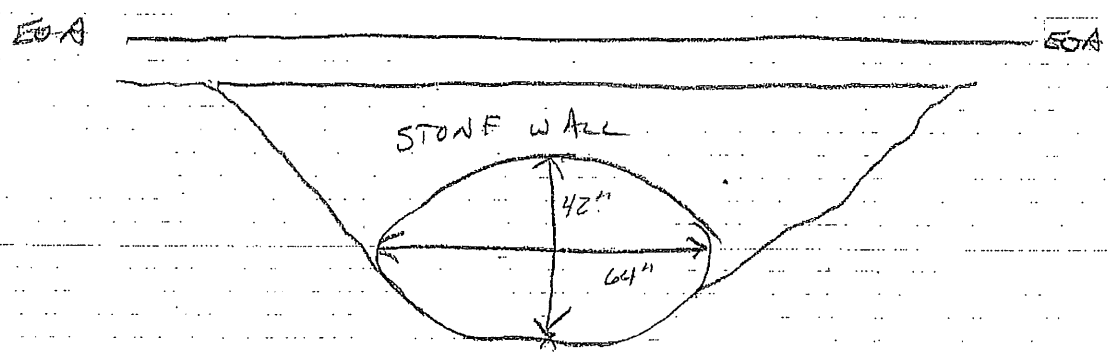
2008061



CONT

61ST ST. CULVERT

4-24-08



DN/DM

61ST STREET CULVRT

947/70

2008061 CONT 4-25-08 AWDM

BASE@URS HR-6562

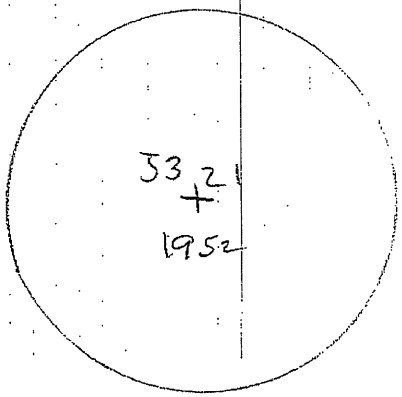
PTS 1238 -

#88 ✓1643 CP-BROADWAY
N-1248380.420
E-3061779.708
EL-5343.609

#89 ✓1644 CP-WATER
N-1248338.163
E-3062116.214
EL-5343.210

#90 ✓1645 CP CONC
N-1248421.481
E-3061957.521
EL-5338.591

#91 ✓1646 BM-5-321



53 21
1952

Z0080G1

CONT.

4-25-08

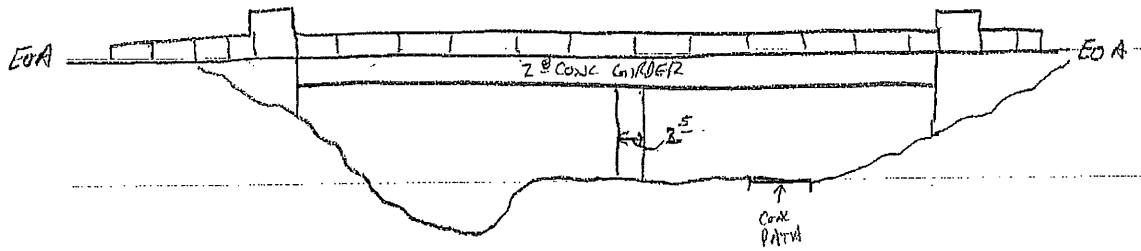
DN/DM

997/72

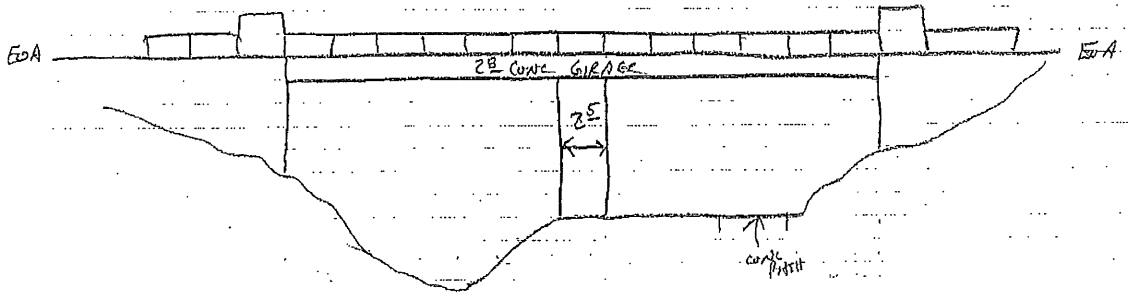
2008061 CONT 4-25-08 DN/DM 997/73

TG #89 CP-WATER HI - 5 27
BS @ #90 CP-CONC HR - 4 36
HA-00-00-00 HD - 179 25
PTS - 2968 - 3030

TG #88 CP-BROADWAY HI - 4 85
BS @ #90 CP - CONC. HR - 3 41
HA-00-00-00 HD - 182 5
PTS 3031-3086

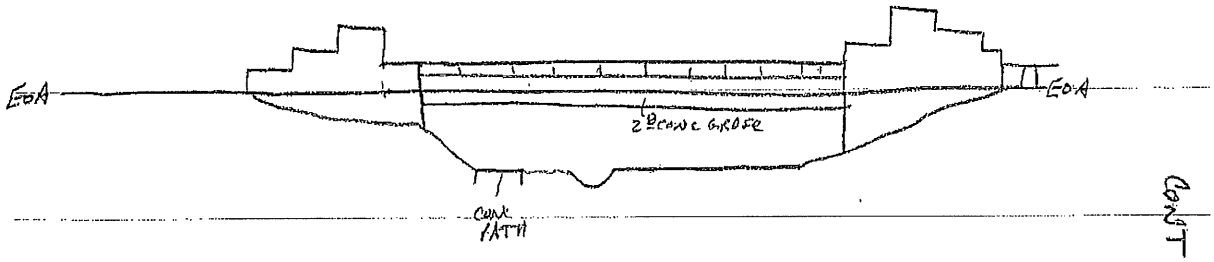


WEST VALMONT RD D/S



WEST VALMONT RD U/S

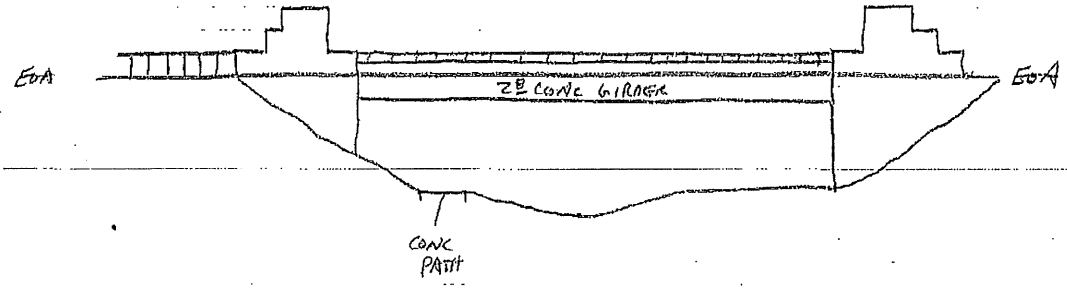
2008061



CONT

EAST VALMONT ROAD D/S

4-28-08



RW/01

EAST VALMONT ROAD U/S

99/75

2008061 CONT

WALL PROFILE

π@ #78 CP-PATH HI - 5 ^{46}

BS@ #77 CP - 6 ^{12} HR - 5 ^{13}

HA-00-00-00 HB - 175 ^{82}

PTS 3087 - 3114

GPS - 1907 - 1997

4-28-08 DN/DM

997/76