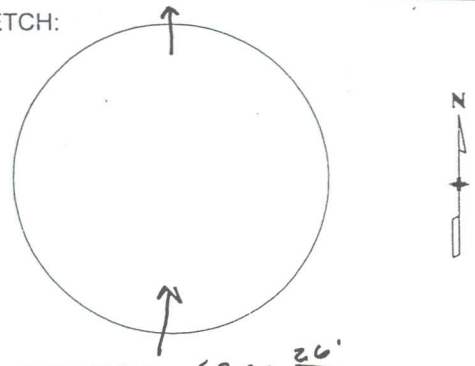
MANHOLE MEASURE DOWN INFORMATION

LUND PARTNERSHIP
12265 W. Bayaud Avenue, Suite 130
Lakewood, Colorado 80228
P:303.989.1461 F: 303.989.4094
CIVIL ENGINEERING & SURVEYING

JOB NAME: 6th + S. Platte
JOB NUMBER: 563-0101
DATE: 11-4-11 FIELD CREW: CS, PR
SHEET: 1 of 1

DC Point #: 7001	Measure Down	Project Elevation
Manhole Description: SSMH		
Invert in (S) 44" RCP	13 90	5192 36
Invert out (W) 44" RCP	14 10	5192 16

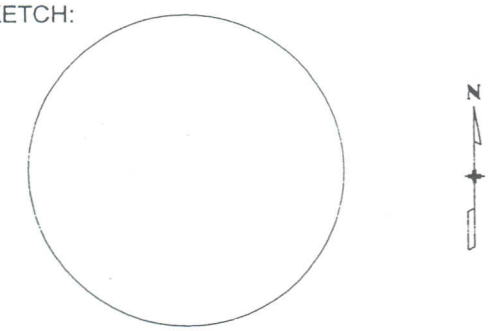
SKETCH:



RIM ELEVATION: 5206 26'

DC Point #:	Measure Down	Project Elevation
Manhole Description:		

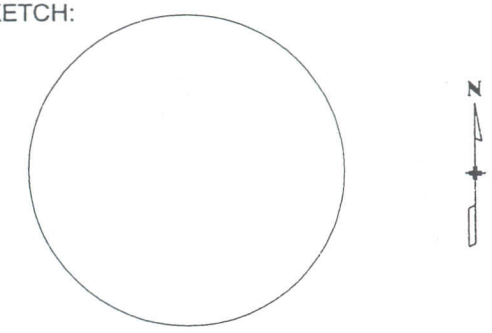
SKETCH:



RIM ELEVATION:

DC Point #:	Measure Down	Project Elevation
Manhole Description:		

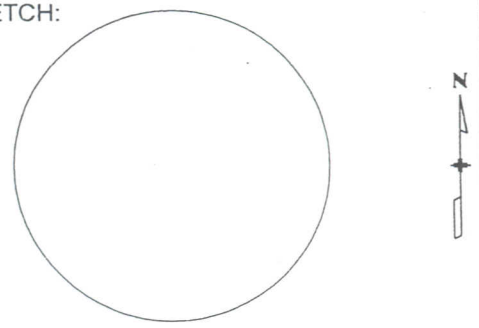
SKETCH:



RIM ELEVATION:

DC Point #:	Measure Down	Project Elevation
Manhole Description:		

SKETCH:



RIM ELEVATION:

ALL PIPE SIZES, TYPES, AND INVERT MEASUREMENTS ARE APPROXIMATE, AND MUST BE VERIFIED PRIOR TO ENGINEERING DESIGN AND CONSTRUCTION. ALL MEASUREMENTS ARE TAKEN FROM THE SURFACE OF MANHOLES AND STRUCTURES. THIS IS DUE TO SURVEY CREW SAFETY RESTRICTIONS ON ENTRY INTO CONFINED STRUCTURES AND MANHOLES.

MANHOLE MEASURE DOWN INFORMATION

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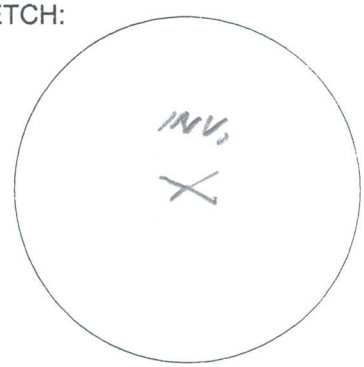
JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-7-11 FIELD CREW: PR
SHEET: 1 OF

DC Point #: 7123	Measure Down	Project Elevation
Manhole Description:		
STORM - RIM = 5212.59		
UNABLE SEE OR		
MEASURE PIPES IN		
OR OUT	8.85	5203.74
INVERT IS TO CENTER		
OF VAULT / PIC # 2-3		

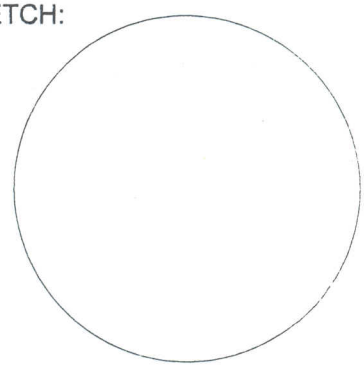
SKETCH:



RIM ELEVATION:

DC Point #:		
Manhole Description:		

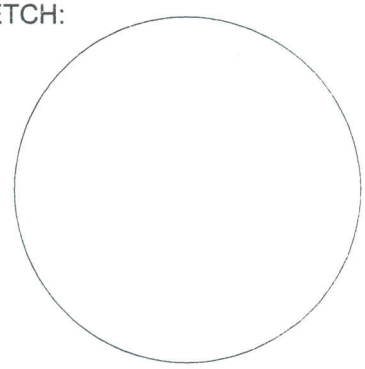
SKETCH:



RIM ELEVATION:

DC Point #:		
Manhole Description:		

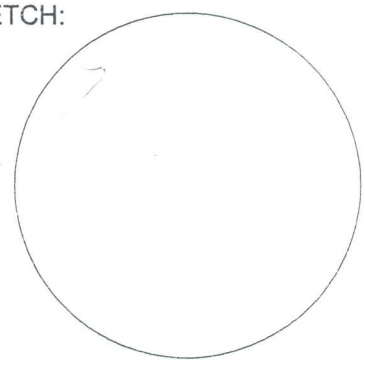
SKETCH:



RIM ELEVATION:

DC Point #:		
Manhole Description:		

SKETCH:



RIM ELEVATION:

MANHOLE MEASURE DOWN INFORMATION

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CIVIL ENGINEERING & SURVEYING

JOB NAME: 6th AVE + I-25
JOB NUMBER: 563 - 0101
DATE: 11-16-11 FIELD CREW: PR
SHEET: 7 of

DC Point #: 7882	Measure Down	Project Elevation	SKETCH:
Manhole Description: ELECTRIC			
(CODED AS SAN. SEWER)			
PICS 2+3			RIM ELEVATION:

DC Point #:	Measure Down	Project Elevation	SKETCH:
Manhole Description:			
			RIM ELEVATION:

DC Point #:	Measure Down	Project Elevation	SKETCH:
Manhole Description:			
			RIM ELEVATION:

DC Point #:	Measure Down	Project Elevation	SKETCH:
Manhole Description:			
			RIM ELEVATION:

MANHOLE MEASURE DOWN INFORMATION

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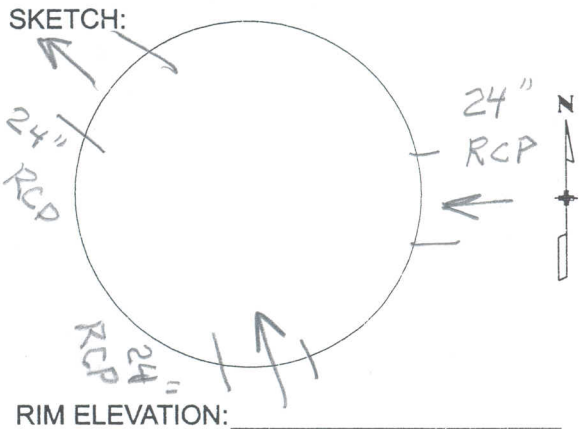
JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-17-11 FIELD CREW: PR
SHEET: 7 of

DC Point #: 7953	Measure Down	Project Elevation
Manhole Description: STORM		
IN EAST 24" RCP	4.15	5205.03
IN SOUTH EAST 24" RCP	4.30	5204.88
OUT NORTHWEST 24" RCP	4.35	5204.83
RIM EL = 5209.18		
(SAND 6" DEEP @ ⌀)		
PICS 5 + 6		

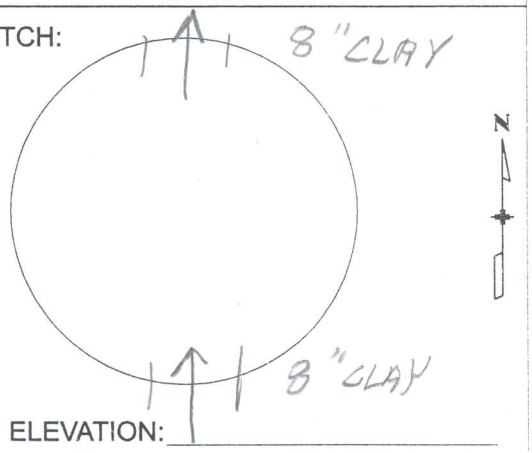
SKETCH:



RIM ELEVATION:

DC Point #: 7958		
Manhole Description: SEWER		
IN SOUTH 8" CLAY	9.10	5196.30
OUT NORTH 8" CLAY	9.18	5196.22
RIM = 5205.40		
PIC 8.7		

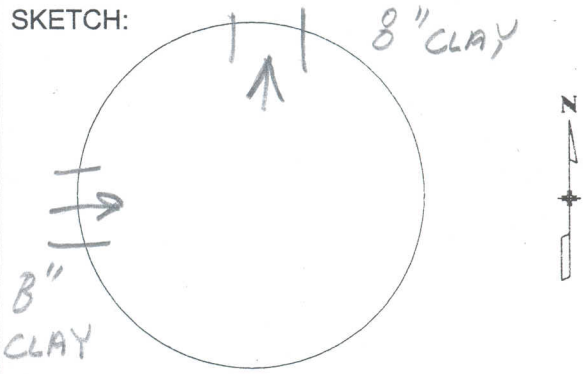
SKETCH:



RIM ELEVATION:

DC Point #: 7911		
Manhole Description: SEWER		
IN WEST 8" CLAY	8.30	5197.29
OUT NORTH 8" CLAY	8.20	5197.39
RIM = 5205.59		
PIC 9		

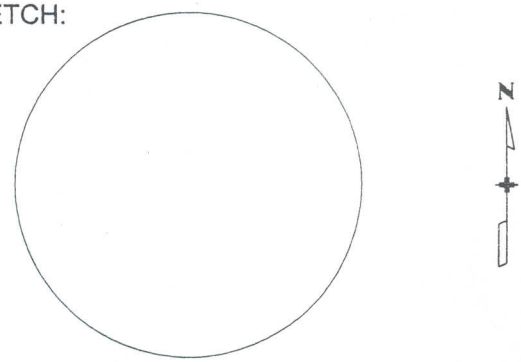
SKETCH:



RIM ELEVATION:

DC Point #:		
Manhole Description:		

SKETCH:



RIM ELEVATION:

MANHOLE MEASURE DOWN INFORMATION

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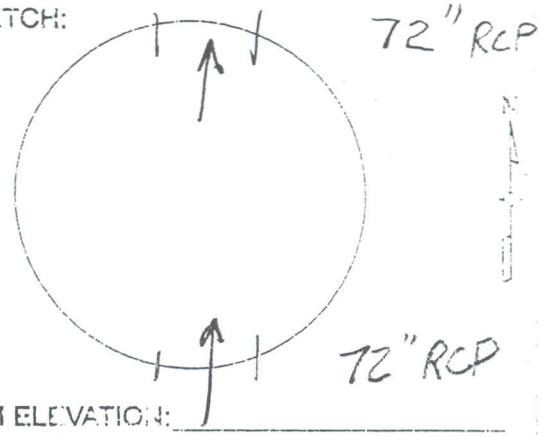
JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-18-11 FIELD CREW: PR PG
SHEET: 10 of

DC Point #: 7804	Measure Down	Project Elevation
Manhole Description: SEWER		
OUT NORTH 72" RCP	19.50	5185.36
IN SOUTH 72" RCP	19.40	5185.46
MH RIM = 5204.86		
PICS 1, 2		

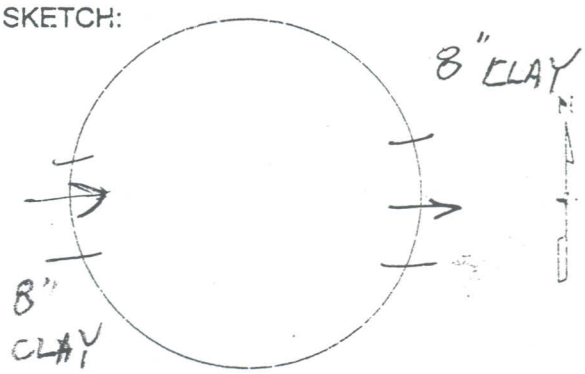
SKETCH:



RIM ELEVATION:

DC Point #: 7489		
Manhole Description: SEWER		
IN WEST 8" CLAY	8.40	5197.38
OUT EAST 8" CLAY	8.50	5197.28
MH RIM = 5205.78		
PICS 3, 4		

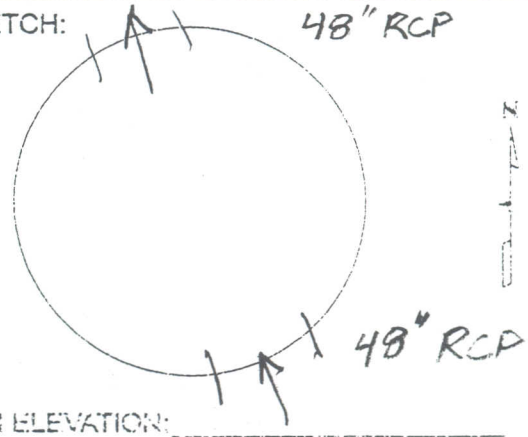
SKETCH:



RIM ELEVATION:

DC Point #: 7473		
Manhole Description: SEWER		
IN SOUTHEAST 48" RCP	12.35	5193.97
OUT NORTH 48" RCP	12.55	5193.77
MH RIM = 5206.32		
PICS 5		

SKETCH:



RIM ELEVATION:

DC Point #: 7478		
Manhole Description: SEWER		
IN SOUTHEAST 72" RCP	23.50	5182.69
OUT NORTHWEST 72" RCP	23.60	5182.59
MH RIM = 5206.19		
PICS 6 + 7		

SKETCH:

RIM ELEVATION:

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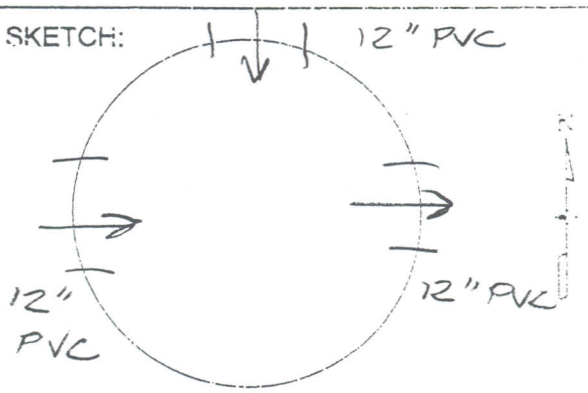
JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-18-11 FIELD CREW: PR PG
SHEET: 11 of

DC Point #: 7575	Measure Down	Project Elevation
Manhole Description: SEWER		
IN WEST 12" PVC	8.30	5199.75
IN NORTH 12" PVC	8.25	5199.80
OUT EAST 12" PVC	8.25	5199.80
RIM = 5208.05		
PIC 17, 18		

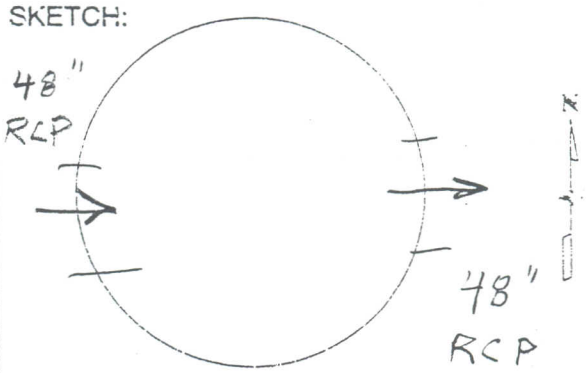
SKETCH:



RIM ELEVATION:

DC Point #: 7573		
Manhole Description: STORM		
IN WEST 48" RCP	5.50	5202.28
OUT EAST 48" RCP	5.62	5202.16
RIM = 5207.78		
PIC 19, 20		

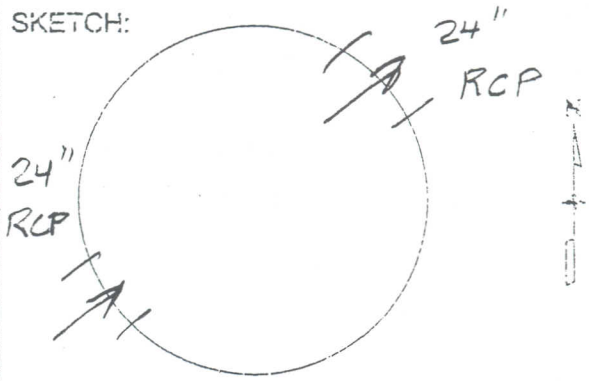
SKETCH:



RIM ELEVATION:

DC Point #: 7572		
Manhole Description: STORM		
IN SOUTHWEST 24"	5.75	5202.43
OUT NORTHEAST	5.86	5202.32
RIM = 5208.18		
PIC 21, 22		

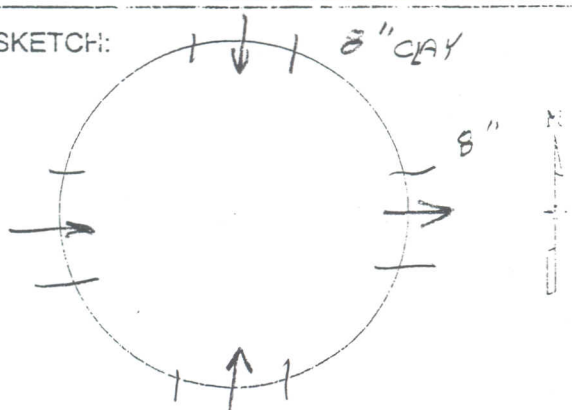
SKETCH:



RIM ELEVATION:

DC Point #: 7781		
Manhole Description: SEWER		
IN NORTH 8" CLAY	6.60	5198.06
OUT EAST 8" CLAY	6.80	5197.86
IN SOUTH 8" CLAY	6.25	5198.41
IN WEST 8" CLAY	6.70	5197.96
RIM = 5204.66		
PICS 23, 24		

SKETCH:



RIM ELEVATION:

MANHOLE MEASURE DOWN INFORMATION

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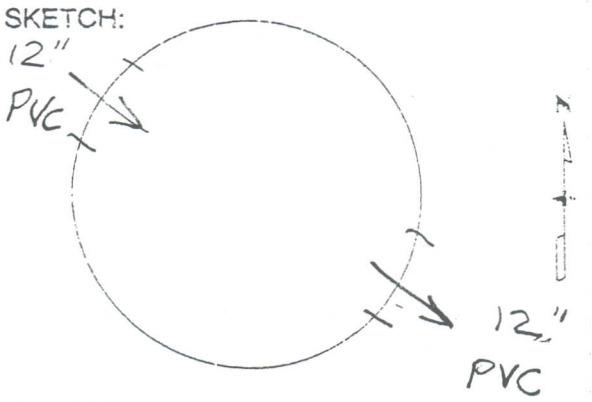
CIVIL ENGINEERING & SURVEYING

JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-18-11 FIELD CREW: AR PG
SHEET: 12 of

	Measure Down	Project Elevation
DC Point #: 7479		
Manhole Description: SEWER		
IN NORTHWEST 12" PVC	9.90	5196.33
OUT SOUTHEAST 12" PVC	10.10	5196.13
RIM EL = 5206.23		
PIC - 8, 9		

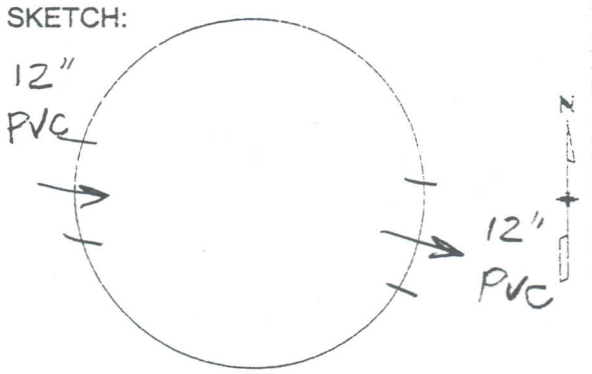
SKETCH:



RIM ELEVATION:

	Measure Down	Project Elevation
DC Point #: 7480		
Manhole Description:		
IN WEST 12" PVC	9.45	5196.62
OUT EAST 12" PVC	9.55	5196.52
MH RIM = 5206.07		
PIC 10, 11		

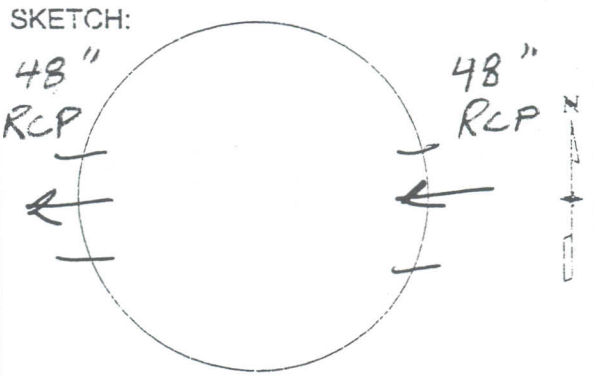
SKETCH:



RIM ELEVATION:

	Measure Down	Project Elevation
DC Point #: 7324		
Manhole Description:		
IN EAST 48" RCP	20.15	5186.00
OUT WEST 48" RCP	20.30	5185.85
RIM = 5206.15		
PIC 12, 13		

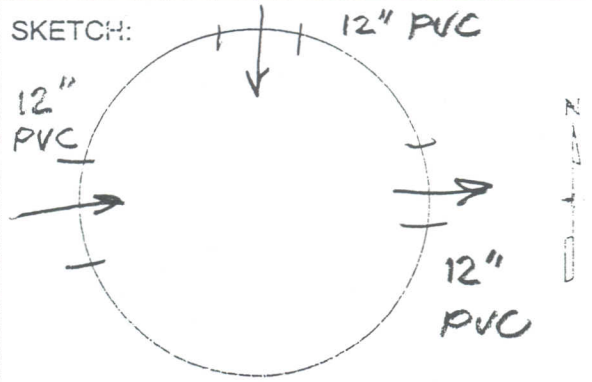
SKETCH:



RIM ELEVATION:

	Measure Down	Project Elevation
DC Point #: 7326		
Manhole Description: SEWER		
IN WEST 12" PVC	7.70	5198.77
OUT EAST 12" PVC	7.85	5198.62
IN NORTH 12" PVC	7.70	5198.77
RIM = 5206.47		
PICS 14, 15, 16		

SKETCH:



RIM ELEVATION:

MANHOLE MEASURE DOWN INFORMATION

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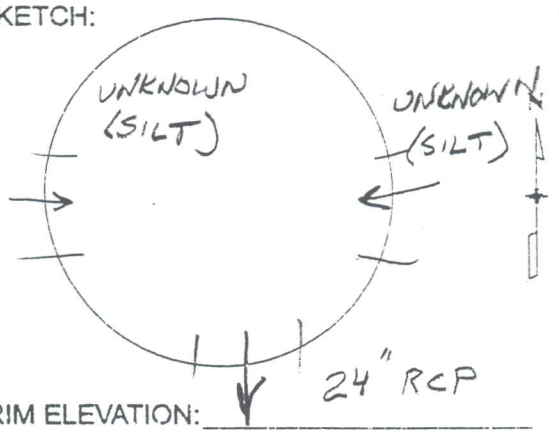
CIVIL ENGINEERING & SURVEYING

JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-18-11 FIELD CREW: PR PG
SHEET: 13 of

DC Point #: 7740	Measure Down	Project Elevation
Manhole Description: STORM		
IN EAST ?		
OUT SOUTH 24" RCP	3.30	5202.45
IN WEST ?		
EXCESSIVE SILT + MUD		
RIM = 5205.75		
PICS 25		

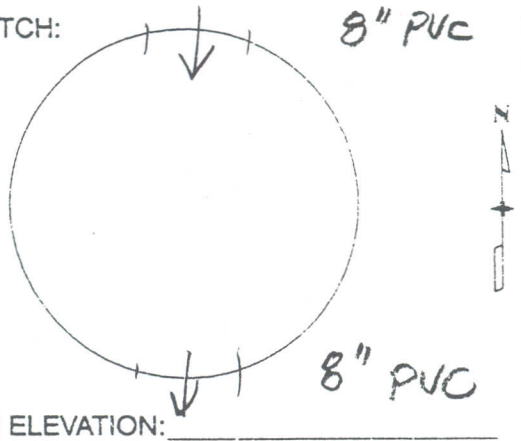
SKETCH:



RIM ELEVATION:

DC Point #: 7643		
Manhole Description: SEWER		
IN NORTH 8" PVC	5.10	5200.78
OUT SOUTH 8" PVC	5.20	5200.68
RIM 5205.88		
PIC 26, 27		

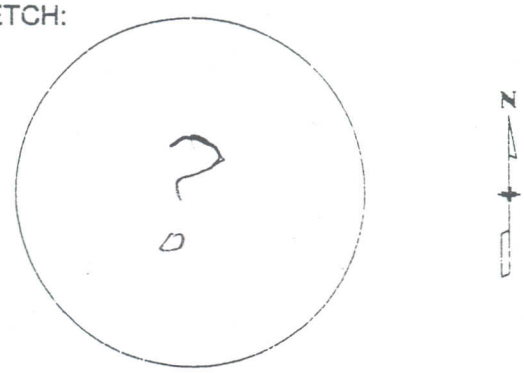
SKETCH:



RIM ELEVATION:

DC Point #: 7644		
Manhole Description: ?		
FILLED WITH WATER		
RIM = 5206.31		
PIC 28		

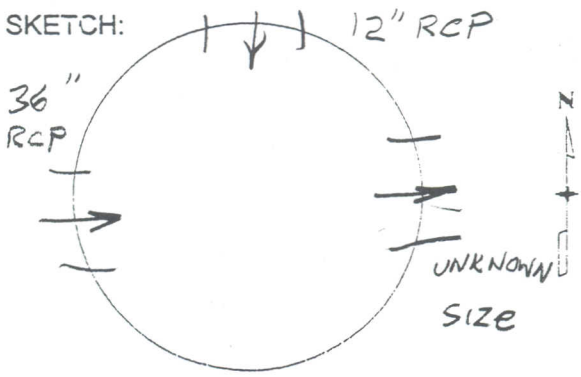
SKETCH:



RIM ELEVATION:

DC Point #: 7607		
Manhole Description: STORM		
IN WEST 36" RCP	5.12	5201.42
IN NORTH 12" RCP	5.10	5201.44
OUT EAST ? RCP	5.30	5201.24
RIM = 5206.54		
PIC 29, 30		

SKETCH:



RIM ELEVATION:

MANHOLE MEASURE DOWN INFORMATION

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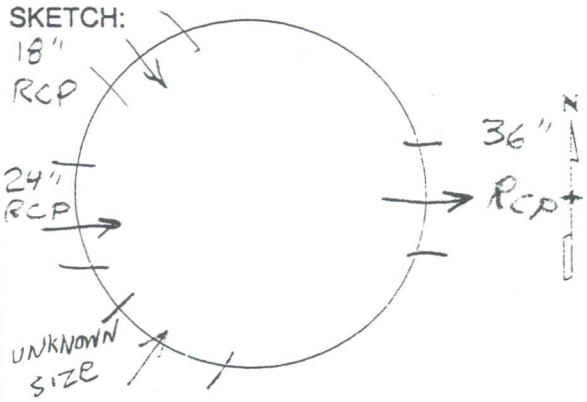
CIVIL ENGINEERING & SURVEYING

JOB NAME: 6th AVE + I-25
JOB NUMBER: 563-0101
DATE: 11-18-11 FIELD CREW: PR PC
SHEET: 14 of

DC Point #: 7609	Measure Down	Project Elevation
Manhole Description: STORM		
IN NORTHWEST 18" RCP	3.25	5204.01
IN WEST 24" RCP	6.30	5200.96
IN SOUTHWEST ? RCP	6.20	5201.06
OUT EAST 36 RCP	6.40	5200.86
RIM = 5207.26		
PICS 31, 32		

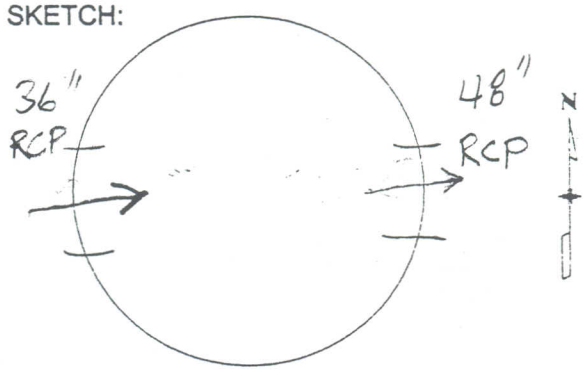
SKETCH:



RIM ELEVATION:

DC Point #: 7590		
Manhole Description: STORM		
IN WEST 36" RCP	7.40	5198.56
OUT EAST 48" RCP	7.50	5198.46
(IN VAULT MAYBE OTHER		
PIPES)		
RIM = 5205.96		
PIC - 33, 34		

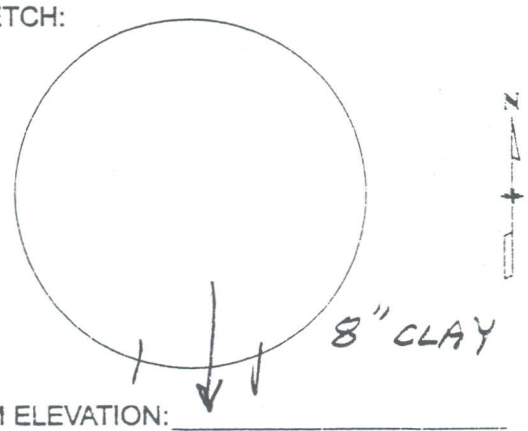
SKETCH:



RIM ELEVATION:

DC Point #: 7303		
Manhole Description: SEWER		
OUT SOUTH 12" PVC	5.50	5200.35
RIM = 5205.85		
PIC 35, 36		

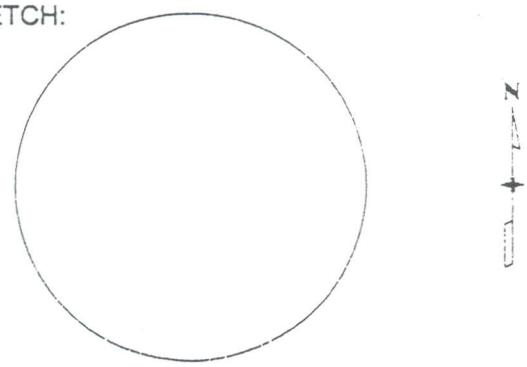
SKETCH:



RIM ELEVATION:

DC Point #:		
Manhole Description:		

SKETCH:



RIM ELEVATION: