

CITY OF FORT COLLINS MEMORANDUM

DATE: NOVEMBER 2013

TO: INTERESTED PARTIES NEEDING VERTICAL CONTROL IN THE CITY OF FORT COLLINS

FROM: JOHN VON NIEDA PLS, CITY SURVEYOR

RE: UPDATED CITY OF FORT COLLINS VERTICAL CONTROL

The City of Fort Collins Survey Department is pleased to make available to you the expanded listing of the City of Fort Collins Vertical Control Network.

Generally the vertical control monuments are a 2" aluminum cap set in a solid concrete structure. The monuments are stamped "City of Fort Collins Benchmark" along with a distinctive identifying number.

The elevations are given in feet to the nearest one hundredth of a foot (0.01'). The data was obtained mostly using a Leica NA2002 Digital Level and most recently with a Leica DNA10 Digital Level and Digital Level Rod. The field data was gathered using Leica software. The data was then transferred into Star*Lev Least Squares Level Net Adjustment software for adjustment.

PLEASE READ

As a matter of common survey practice, please remember to always check between at least two vertical control monuments. If you discover an unresolved error in the published datum, or if a vertical control monument has been destroyed or is going to be disturbed, please call the City of Fort Collins Survey Department at (970) 221-6605.

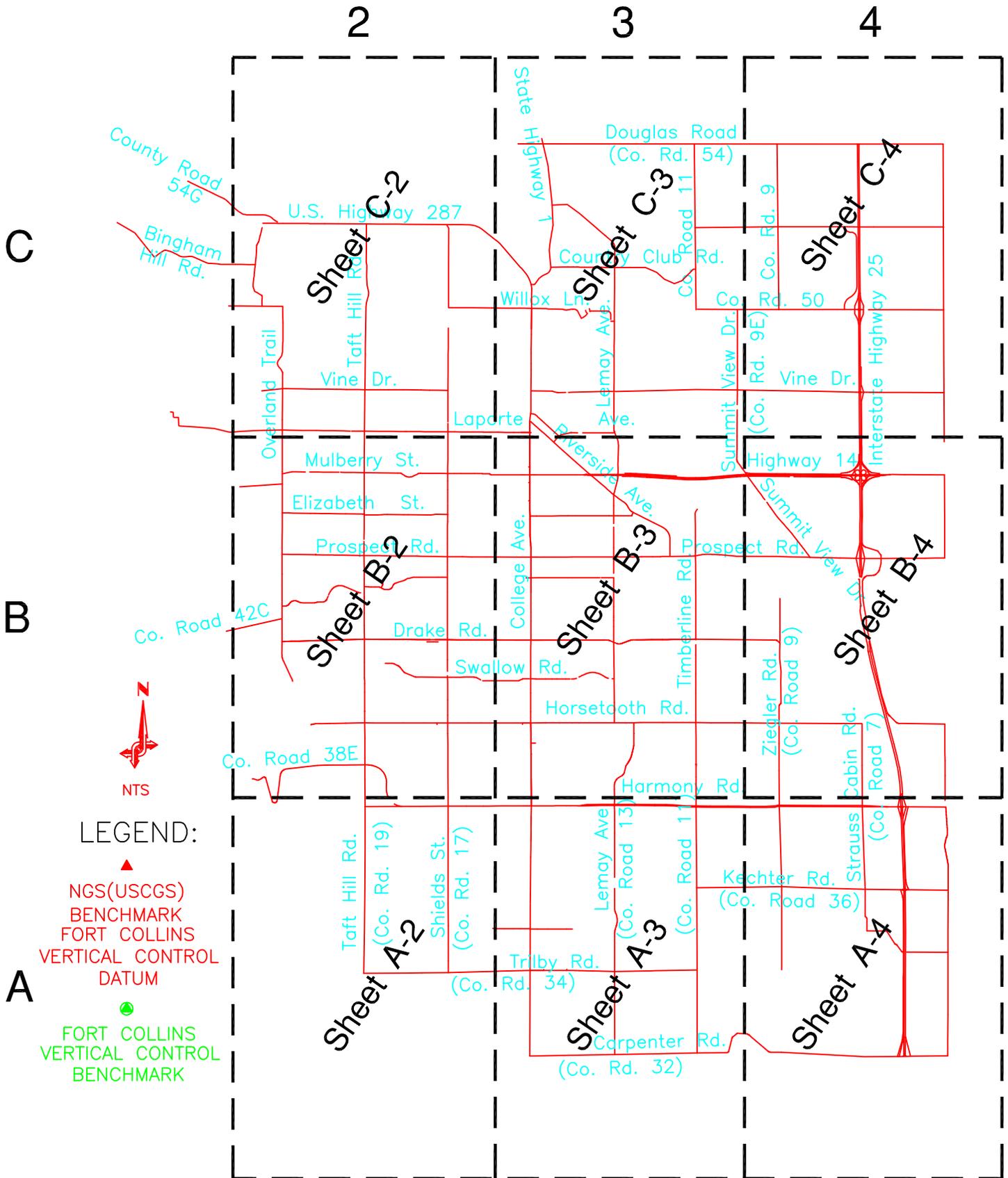
As of January 1, 2014, the City of Fort Collins will move to the NAVD 88 datum, requiring any **new** projects to be surveyed and designed in this datum. The impetus to make this change stems from FEMA's conversion to the NAVD 88 datum, from the increasing convergence of Surveying and GIS, and from the desire for consistency in Vertical Control with neighboring municipalities. We recognize that this may cause inconvenience in the short term, and for this reason we will continue to allow the NGVD 29 unadjusted datum (old "City Datum" – see note below) for projects where surveying has begun prior to January 1, 2014 for a period of one year. We have provided both NAVD 88 and old "City Datum" elevations for all benchmarks listed herein

The City of Fort Collins is not responsible for errors in the "City of Fort Collins Vertical Control Network" and makes no warranty, expressed or implied, in the accuracy thereof, and shall not be responsible for damages or injuries suffered by a party as a result of any such errors, whether such damages or injuries are direct, indirect, incidental or consequential.

Note:

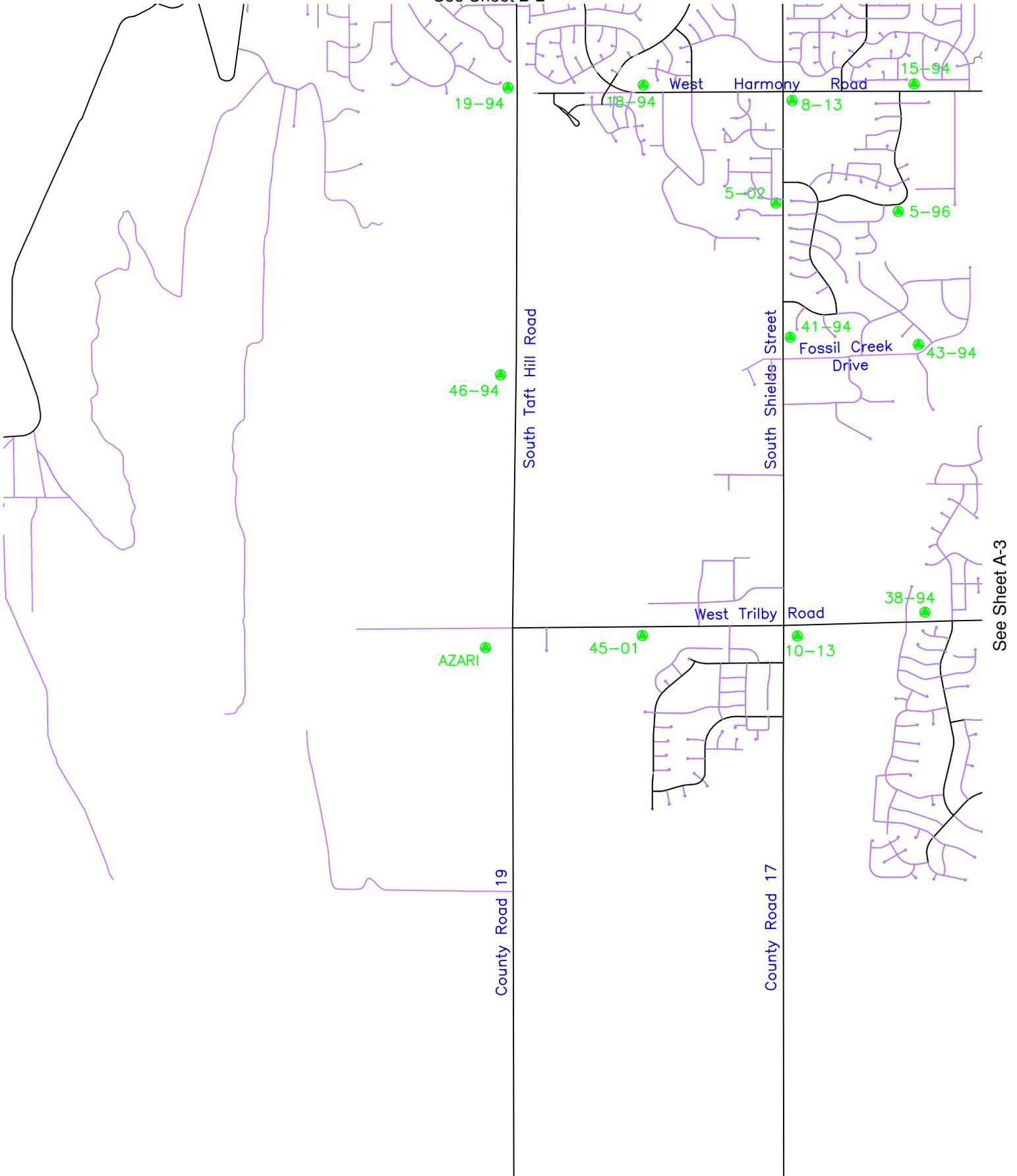
The old "City Datum" had always been based upon "original" NGVD 1929 datum. In 1984 NGS re-leveled and adjusted the vertical control along the Front Range including Fort Collins. In Fort Collins the adjustment amounted to the new datum being 0.34' higher. Because Fort Collins had vertical control and flood mapping in place prior to 1984, we had continued to use the "original" 1929 datum for our basis of vertical control. Therefore, the City's elevations in NGVD 29 are 0.34' lower than the published 1929 values on the remaining NGS benchmarks in the City.

FORT COLLINS VERTICAL CONTROL INDEX MAP



Sheet A-2

See Sheet B-2



See Sheet A-3

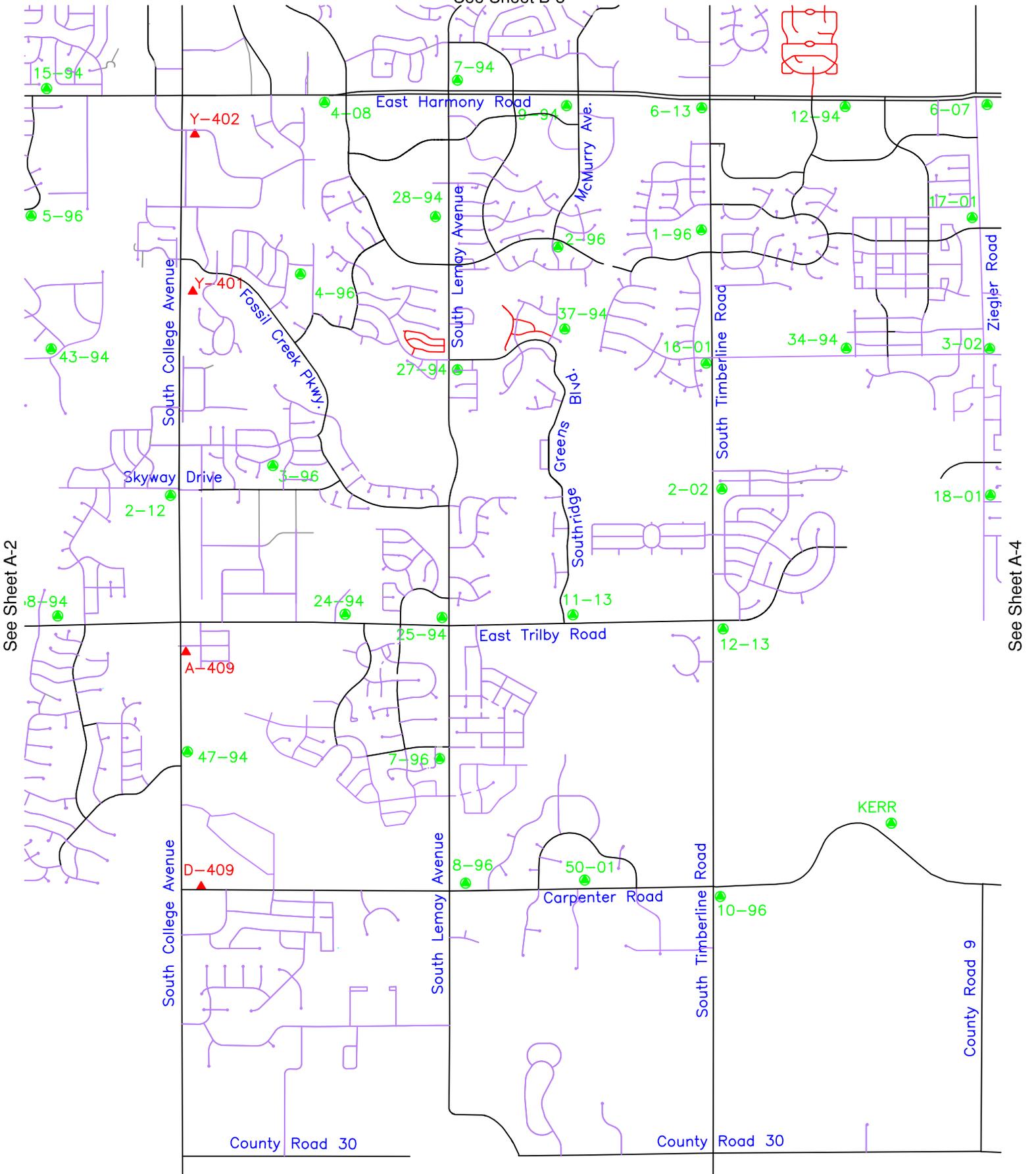
LEGEND

- ▲ NGS(USCGS) BENCHMARK
FORT COLLINS VERTICAL CONTROL DATUM
- FORT COLLINS VERTICAL CONTROL
BENCHMARK



Sheet A-3

See Sheet B-3



See Sheet A-2

See Sheet A-4

LEGEND

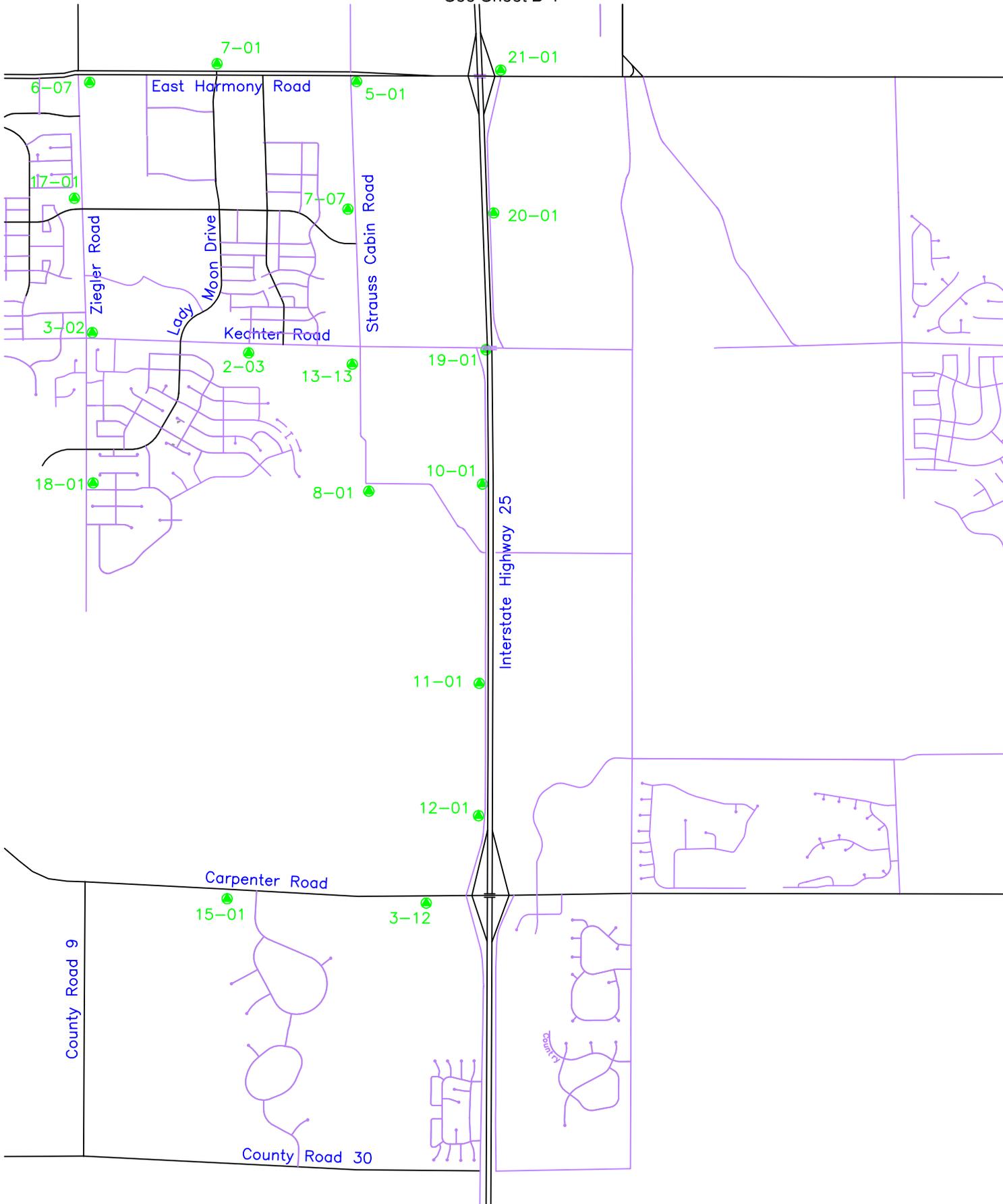
-  NGS(USCGS) BENCHMARK
FORT COLLINS VERTICAL CONTROL DATUM
-  FORT COLLINS VERTICAL CONTROL
BENCHMARK



Sheet A-4

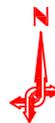
See Sheet B-4

See Sheet A-3



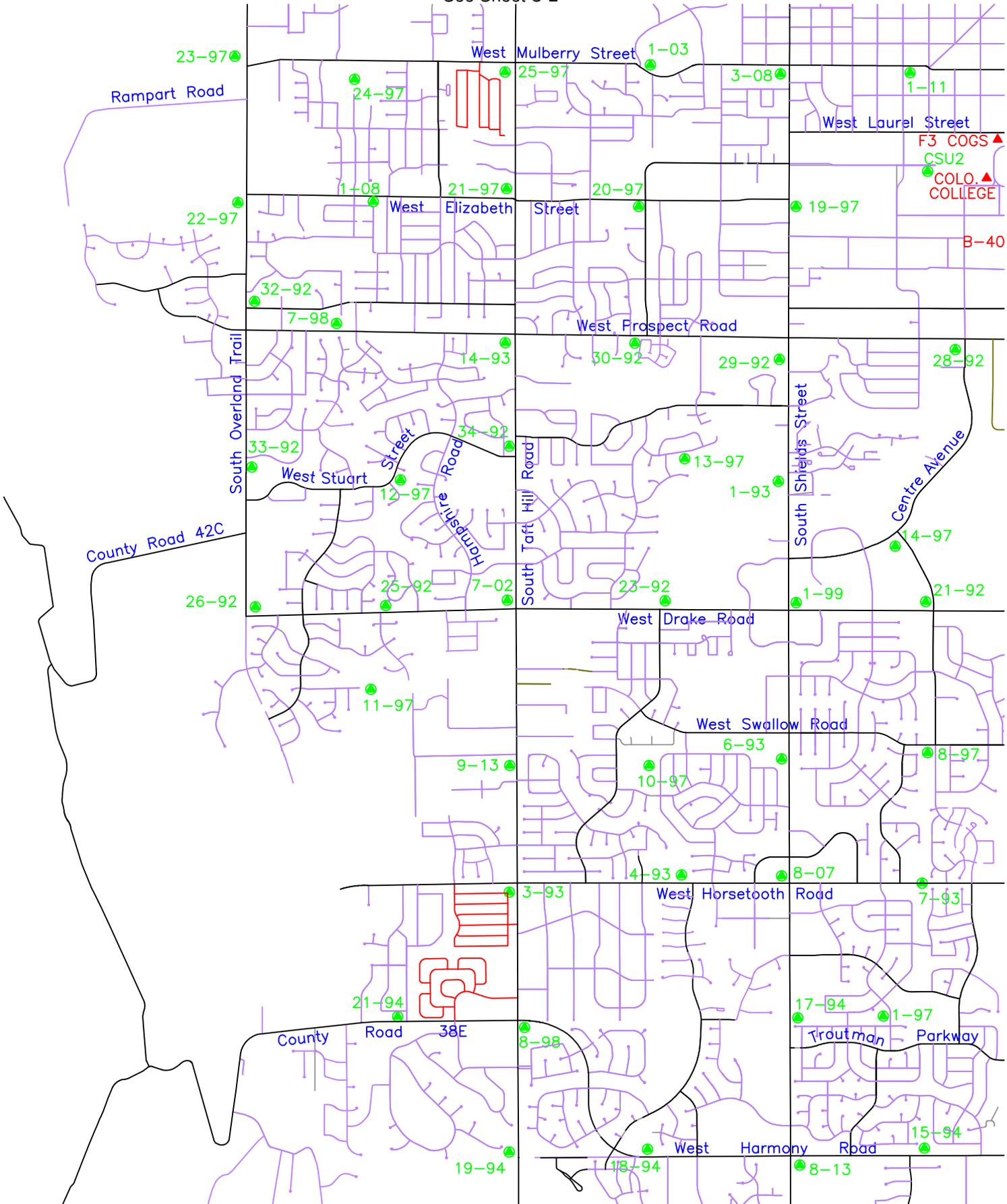
LEGEND

- ▲ NGS(USCGS) BENCHMARK
FORT COLLINS VERTICAL CONTROL DATUM
- FORT COLLINS VERTICAL CONTROL
BENCHMARK



Sheet B-2

See Sheet C-2



See Sheet B-3

LEGEND

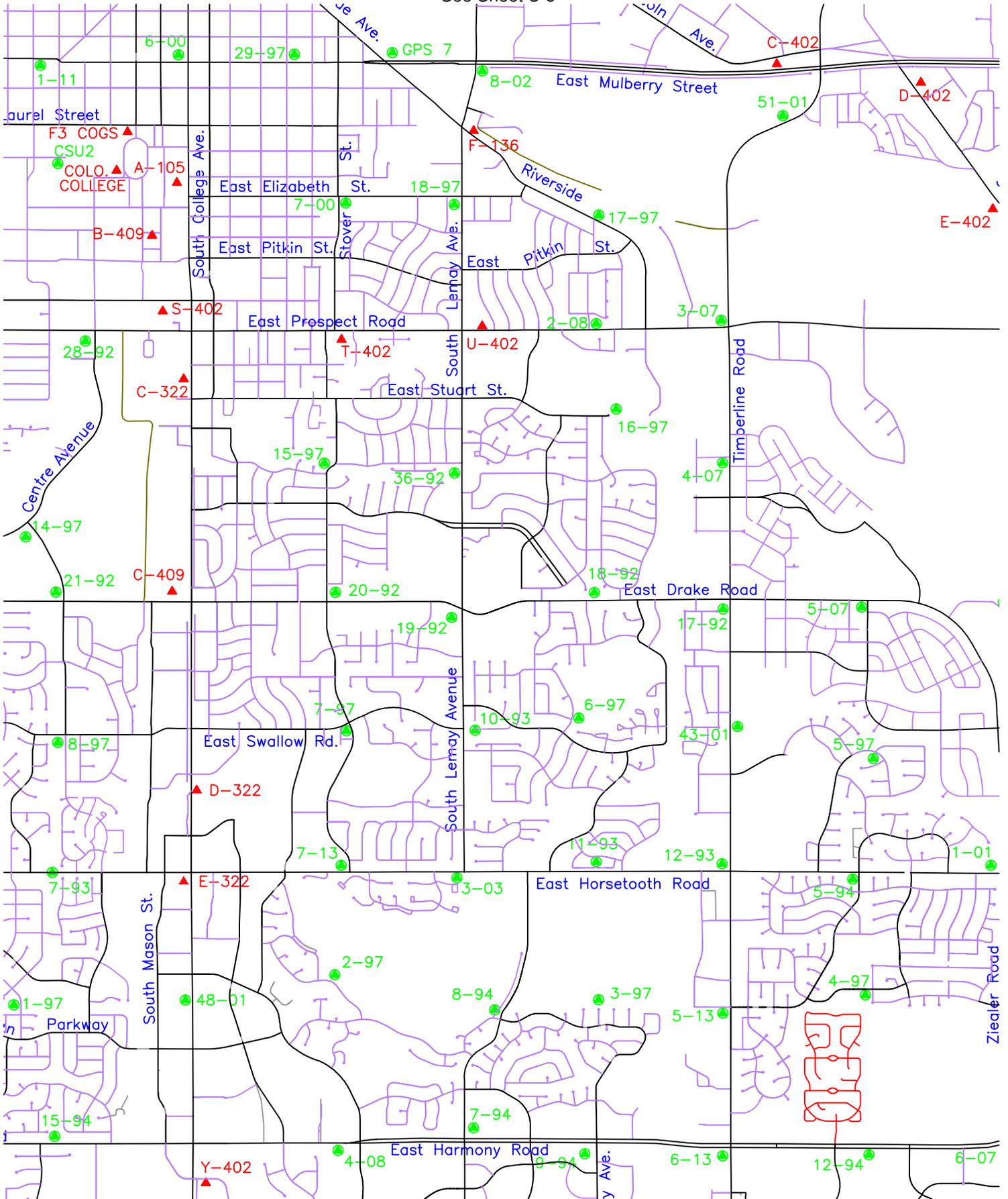
- ▲ NGS(USCGS) BENCHMARK
FORT COLLINS VERTICAL CONTROL DATUM
- FORT COLLINS VERTICAL CONTROL
BENCHMARK

See Sheet A-2



Sheet B-3

See Sheet C-3



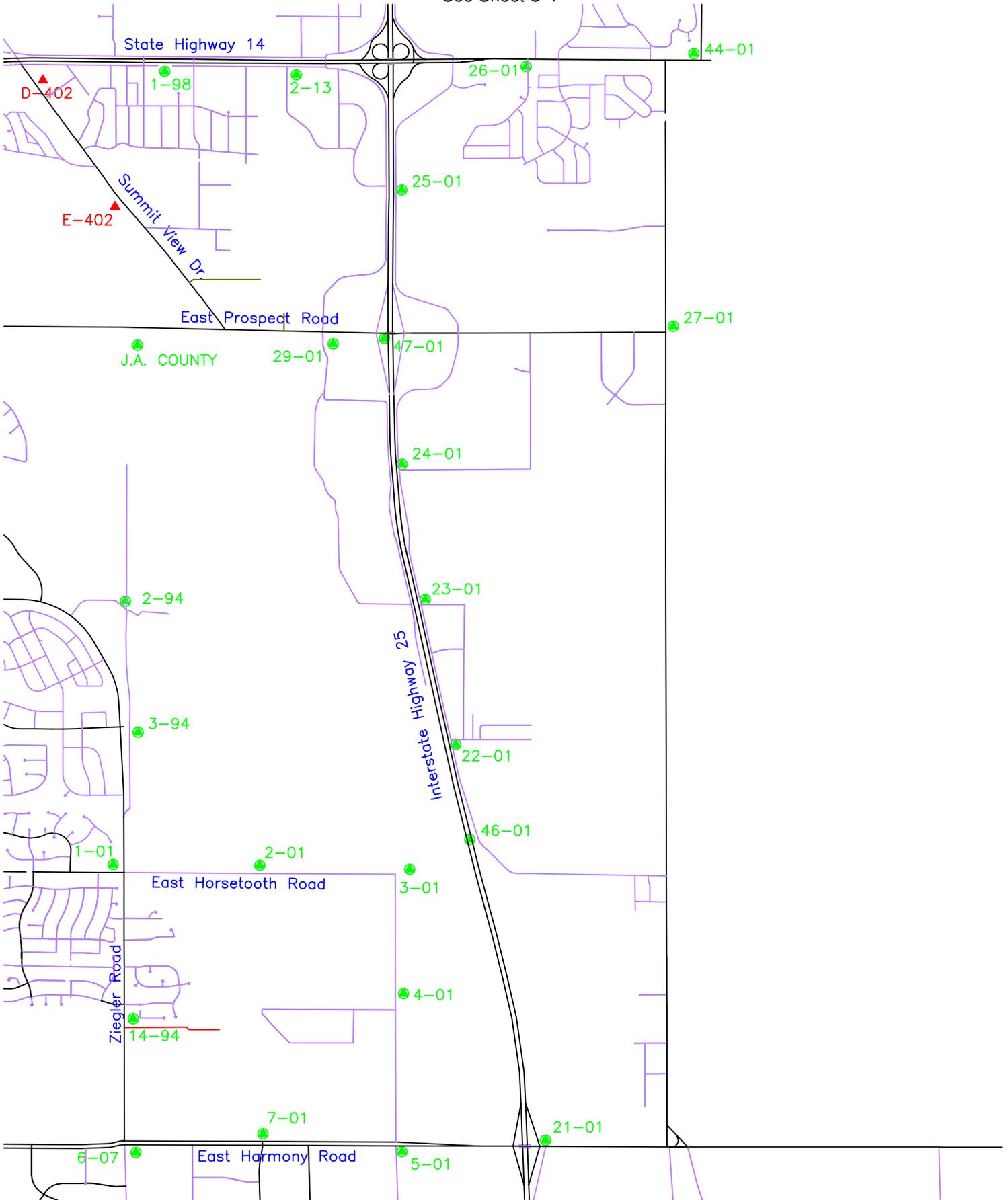
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FORT COLLINS VERTICAL CONTROL DATUM
- FORT COLLINS VERTICAL CONTROL
BENCHMARK



Sheet B-4

See Sheet C-4



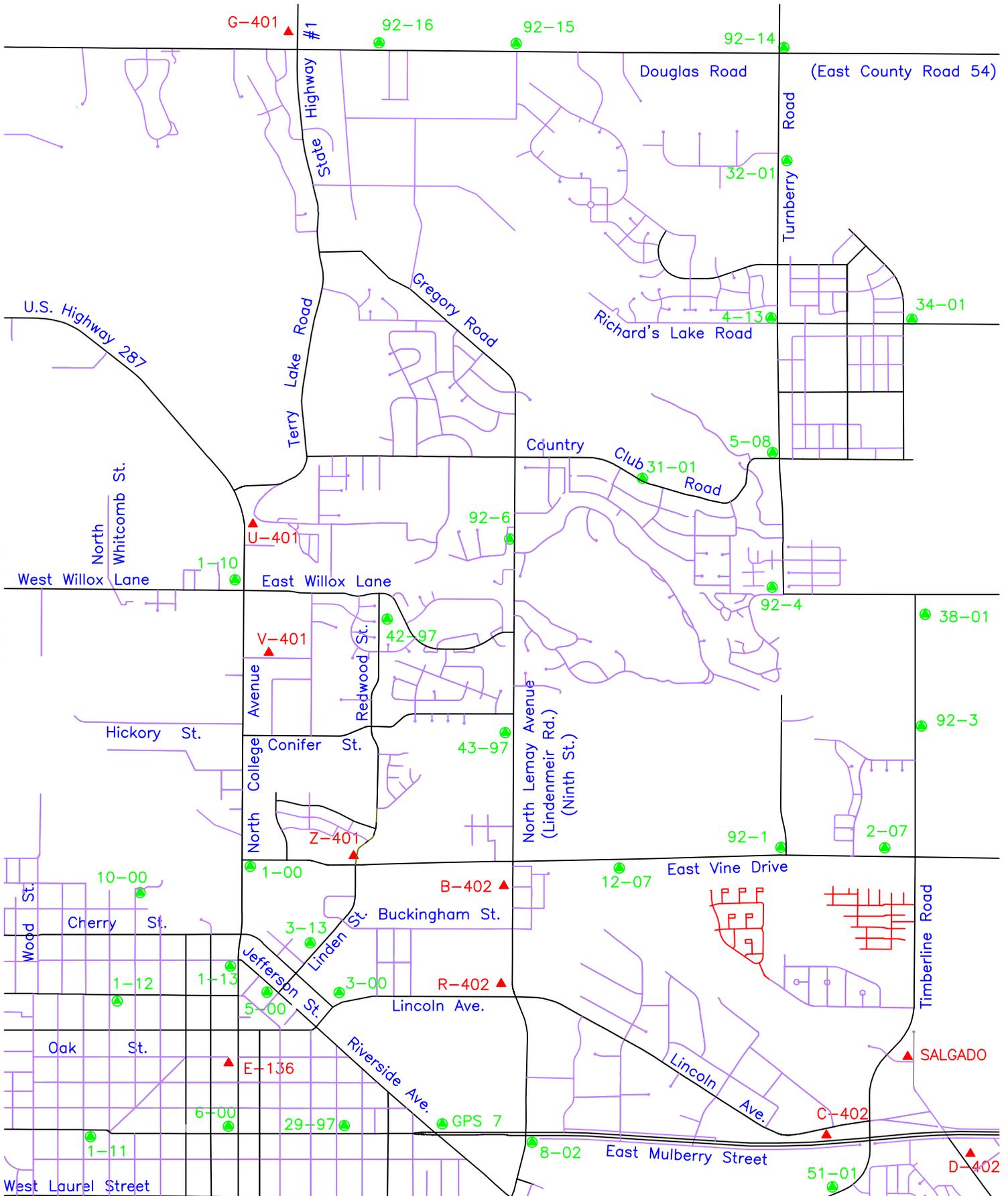
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-  NGS(USCGS) BENCHMARK
FORT COLLINS VERTICAL CONTROL DATUM
-  FORT COLLINS VERTICAL CONTROL
BENCHMARK

See Sheet A-4



Sheet C-3



See Sheet C-2

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LEGEND

- ▲ NGS(USCGS) BENCHMARK
FORT COLLINS VERTICAL CONTROL DATUM
- FORT COLLINS VERTICAL CONTROL
BENCHMARK



Fort Collins Vertical Control

NOVEMBER 2013

IDENTIFIER (as stamped)	DESCRIPTION	ELEVATION (F.C.Datum)
92-1	EAST VINE DR. AT THE PLEASANT VALLEY AND LAKE CANAL, ON A BRIDGE ON THE TOP OF THE NORTHWEST HEADWALL.	NAVD88=4946.31 NGVD29 =4943.13
92-3	TIMBERLINE RD. AT LARIMER-WELD IRRIGATION DITCH, ON THE SOUTH END OF THE EAST PARAPET WALL.	NAVD88=4988.87 NGVD29 =4985.68
92-4	AT THE INTERSECTION OF MOUNTAIN VISTA DR. AT TURNBERRY RD., ON TOP OF THE SECTION CORNER MONUMENT.	NAVD88=5016.15 NGVD29 =5012.97
92-6	NORTH LEMAY AVE. AT THE LARIMER-WELD IRRIGATION DITCH, ON THE TOP OF THE SOUTHWEST WINGWALL.	NAVD88=4992.86 NGVD29 =4989.68
92-8	1/2 MILE EAST OF GIDDINGS RD. (COUNTY RD. 9) ON THE SOUTH SIDE OF MOUNTAIN VISTA DR. (COUNTY RD. 50) AT THE BNSF RR TRACK ON POWER TOWER BASE #006.	NAVD88=4992.80 NGVD29 =4989.62
92-9	SOUTH SIDE OF MOUNTAIN VISTA DR. AT THE WEST END OF THE BRIDGE OVER I-25, ON A LARIMER COUNTY BRASS CAP, AT THE WEST END OF THE SOUTH PARAPET WALL.	NAVD88=5021.92 NGVD29 =5018.74
92-10	WEST SIDE OF BUSCH DR. AT THE SOUTH ENTRANCE TO BUDWEISER, ON TOP OF A HEADWALL AT THE SOUTH SIDE OF THE ENTRANCE.	NAVD88=5009.60 NGVD29 =5006.41
92-12	RICHARDS LAKE RD. AT THE BNSF RR TRACK, ON THE 1/4 CORNER MONUMENT.	NAVD88=5031.22 NGVD29 =5028.03
92-13	SOUTHEAST CORNER OF DOUGLAS RD. AND COUNTY RD. 9, ON THE TOP OF AN IRRIGATION STRUCTURE.	NAVD88=5062.97 NGVD29 =5059.79
92-14	NORTHEAST CORNER OF DOUGLAS RD. AND TURNBERRY ROAD, ON THE TOP OF AN IRRIGATION STRUCTURE.	NAVD88=5075.10 NGVD29 =5071.92
92-15	DOUGLAS RD. AND COUNTY RD. 13, ON A LARIMER COUNTY BRASS CAP, ON THE SOUTHWEST CORNER OF A BRIDGE OVER LARIMER CANAL DITCH.	NAVD88=5123.89 NGVD29 =5120.73

92-16	NORTH SIDE OF DOUGLAS RD. AT KENYON DR., ON THE TOP OF AN IRRIGATION STRUCTURE.	NAVD88=5112.58 NGVD29 =5109.42
17-92	300 FEET SOUTH OF THE SOUTHWEST CORNER OF EAST DRAKE RD. AND TIMBERLINE RD, IN THE TOP OF AN IRRIGATION STRUCTURE.	NAVD88=4938.70 NGVD29 =4935.51
18-92	NORTH SIDE OF EAST DRAKE RD., EAST OF SILVER CREEK DR.,ON THE TOP OF A STORM MANHOLE.	NAVD88=4970.15 NGVD29 =4966.96
19-92	SOUTHWEST CORNER OF EAST DRAKE RD. AND LEMAY AVE , ON TOP OF A SANITARY SEWER PUMP STATION.	NAVD88=4978.40 NGVD29 =4975.21
20-92	NORTHEAST CORNER OF EAST DRAKE RD. AND STOVER ST., ON A SIGNAL POLE BASE.	NAVD88=4999.12 NGVD29 =4995.94
21-92	NORTHWEST CORNER OF WEST DRAKE RD. AND RESEARCH BLVD., ON A POWER TOWER BASE.	NAVD88=5042.84 NGVD29 =5039.67
23-92	NORTHEAST CORNER OF WEST DRAKE RD. AND DUNBAR AVE, ON A POWER TOWER BASE.	NAVD88=5055.98 NGVD29 =5052.80
25-92	NORTH SIDE OF WEST DRAKE RD., ONE- HALF MILE WEST OF TAFT HILL RD., ON A POWER TOWER BASE.	NAVD88=5124.86 NGVD29 =5121.68
26-92	NORTHEAST CORNER OF WEST DRAKE RD. AND OVERLAND TRAIL, ON A POWER TOWER BASE.	NAVD88=5148.63 NGVD29 =5145.45
28-92	SOUTHWEST CORNER OF WEST PROSPECT RD. AND CENTRE AVE. , ON A WATER VALVE PIT.	NAVD88=5010.65 NGVD29 =5007.48
29-92	APPROXIMATE 300 FEET SOUTH OF WEST PROSPECT RD. AND SHIELDS ST., ON THE NORTH END OF THE WEST BRIDGE PARAPET WALL.	NAVD88=5025.67 NGVD29 =5022.50
30-92	1600 BLOCK OF WEST PROSPECT RD, IN THE SOUTH - WEST RETAINING WALL OF THE BRIDGE OVER THE MERCER CANAL.	NAVD88=5058.22 NGVD29 =5055.04
32-92	NORTHEAST CORNER OF LAKE ST. AND OVERLAND TRAIL, IN THE EAST HEADWALL OF THE BRIDGE OVER THE PLEASANT VALLEY AND LAKE CANAL.	NAVD88=5119.42 NGVD29 =5116.24
33-92	SOUTHEAST CORNER OF ROSS DR. AND OVERLAND TRAIL, IN THE SOUTH END OF A RETAINING WALL.	NAVD88=5143.33 NGVD29 =5140.15
34-92	WEST SIDE OF TAFT HILL RD. NORTH OF STUART ST , ON A STORM WATER DIVERSION STRUCTURE.	NAVD88=5088.78 NGVD29 =5085.60

36-92	SOUTHWEST CORNER OF DARTMOUTH TRAIL AND LEMAY AVE, ON A DIVERSION WALL AT THE ARTHUR DITCH.	NAVD88=4981.80 NGVD29 =4978.62
1-93	SOUTH SHIELDS ST. AT THE ENTRANCE TO ROLLAND MOORE PARK ,ON THE EAST END OF A PLANTER ON TOP OF THE CURB.	NAVD88=5026.44 NGVD29 =5023.27
3-93	SOUTHWEST CORNER OF SOUTH TAFT HILL RD. AND HORSETOOTH RD., ON A CATCH BASIN.	NAVD88=5132.42 NGVD29 =5129.24
4-93	NORTH SIDE OF WEST HORSETOOTH RD. AT THE PLEASANT VALLEY AND LAKE CANAL , ON THE TOP OF A PARAPET WALL.	NAVD88=5110.14 NGVD29 =5106.95
6-93	WEST SIDE OF SOUTH SHIELDS ST., 1/2 MILE SOUTH OF DRAKE RD., APPROXIMATELY 300 FEET SOUTH OF SWALLOW ROAD, ON A CATCH BASIN.	NAVD88=5072.29 NGVD29 =5069.11
7-93	CENTERLINE OF WEST HORSETOOTH RD., 1/2 MILE WEST OF COLLEGE AVE, ON THE 1/4 COR. MONUMENT.	NAVD88=5063.12 NGVD29 =5059.93
8-93	(DESTROYED BY CONSTRUCTION)	
10-93	SOUTHEAST CORNER OF SWALLOW RD. AND LEMAY AVE., ON A SIGNAL CONTROL BOX BASE.	NAVD88=4988.47 NGVD29 =4985.28
11-93	ON NORTH SIDE OF HORSETOOTH ROAD IN FRONT OF 1562 FARADAY CIRCLE IN THE GREENBELT, ON TOP OF A MANHOLE BASE.	NAVD88=4969.78 NGVD29 =4966.59
12-93	NORTHWEST CORNER HORSETOOTH RD. AND TIMBERLINE RD., ON A SIGNAL POLE BASE.	NAVD88=4957.08 NGVD29 =4953.89
14-93	SOUTHWEST CORNER WEST PROSPECT RD. AND SOUTH TAFT HILL RD., ON A CATCH BASIN.	NAVD88=5067.92 NGVD29 =5064.74
2-94	EAST DRAKE AND ZIEGLER RD., APPROX. 110 FEET EAST OF SOUTH ENTRANCE TO WATER TREATMENT PLANT #2, ON TOP OF THE SECTION CORNER MONUMENT DATED 1989 IN RANGE BOX.	NAVD88=4881.56 NGVD29 =4878.38
3-94	EAST SIDE OF ZIEGLER RD. APPROXIMATELY 1/2 MILE NORTH OF HORSETOOTH RD., 250' NORTH OF INTERSECTION OF WILLIAM NEAL PARKWAY/CR 9 AND 25' WEST OF FENCE ON A CONCRETE HEADWALL.	NAVD88=4890.97 NGVD29 =4887.78

5-94	NORTHEAST CORNER OF A DETENTION POND AT SOUTHWEST CORNER OF EAST HORSETOOTH RD. AND CARIBOU DR., ON A CONCRETE HEADWALL.	NAVD88=4931.45 NGVD29 =4928.26
7-94	NORTHEAST CORNER OF EAST HARMONY RD. AND SOUTH LEMAY AVE., ON THE NORTHWEST CORNER OF A CONCRETE AREA INLET.	NAVD88=4989.27 NGVD29 =4986.07
8-94	NORTHWEST CORNER OF SOUTH LEMAY AVE. AND HARBORWALK DR., ON THE SOUTHEAST CORNER OF A CONCRETE SIGNAL CONTROL BOX BASE.	NAVD88=4990.05 NGVD29 =4986.85
9-94	SOUTHWEST CORNER OF EAST HARMONY RD. AND MCMURRY AVE., ON THE NORTH SIDE OF THE CONCRETE RING OF A TELEPHONE MANHOLE.	NAVD88=4978.57 NGVD29 =4975.38
12-94	SOUTH SIDE OF EAST HARMONY RD. 300 FEET WEST OF CORBETT DR., ON TOP OF THE CONCRETE WALL OF AN IRRIGATION DROP STRUCTURE.	NAVD88=4953.21 NGVD29 =4950.01
14-94	NORTHWEST CORNER OF HEWLETT PACKARD PROPERTY ON EAST SIDE ZIEGLER RD., ON THE NORTHWEST CORNER OF THE CONCRETE BASE OF A NATURAL GAS UNIT HOUSING.	NAVD88=4927.83 NGVD29 =4924.64
15-94	ON THE NORTH SIDE OF WEST HARMONY RD, 450 FEET EAST OF HINSDALE DR., ON THE CONCRETE RING OF AN ELECTRIC MANHOLE NEAR THE NORTH RIGHT OF WAY FENCE.	NAVD88=5054.79 NGVD29 =5051.59
16-94	(DESTROYED BY CONSTRUCTION)	
17-94	ON THE EAST SIDE OF SOUTH SHIELDS ST. NEAR THE WEST END OF THE BUTTE PASS CUL DE SAC, ON TOP OF THE CURB AND GUTTER.	NAVD88=5089.51 NGVD29 =5086.32
18-94	NORTH SIDE OF WEST HARMONY RD. 200 FEET WEST OF CHIPPENDALE DR., ON CONCRETE BASE OF A BRICK AND MORTAR FENCE (SOUTHWEST CORNER OF REGENCY PARK SUB).	NAVD88=5119.79 NGVD29 =5116.60
19-94	WEST SIDE OF SOUTH TAFT HILL RD. 100 FEET NORTH OF THE OLD WEST HARMONY RD. INTERSECTION, ON TOP OF THE EAST END OF THE SOUTH CONCRETE RETAINING WALL FOR A NATURAL GAS HOUSING UNIT.	NAVD88=5130.78 NGVD29 =5127.59
21-94	NORTHWEST CORNER OF COUNTY ROAD 38E AND WINDOM ST., ON THE SOUTHWEST CORNER OF THE CONCRETE BASE TO A FIBER OPTICS UNIT.	NAVD88=5179.26 NGVD29 =5176.07

22-94	(DESTROYED)	
24-94	NORTHEAST CORNER OF EAST TRILBY RD AND PORTNER DR., ON TOP OF THE WEST END OF A CONCRETE HEADWALL.	NAVD88=4960.69 NGVD29 =4957.50
25-94	NORTHWEST CORNER OF EAST TRILBY RD. AND SOUTH LEMAY AVE, ON TOP OF THE SOUTHEAST EDGE OF THE CONCRETE RING TO AN ELECTRIC MANHOLE.	NAVD88=4913.16 NGVD29 =4909.97
27-94	SOUTHEAST CORNER OF SOUTH LEMAY AVE AND SOUTHRIDGE GREENS BLVD., ON THE NORTHEAST EDGE OF A CONCRETE STORM WATER MANHOLE.	NAVD88=4927.80 NGVD29 =4924.60
28-94	ON THE WEST SIDE OF SOUTH LEMAY AVE AT THE SOUTH END OF COLLINWOOD PROPERTY (5055 SOUTH LEMAY), ON TOP OF THE NORTH WALL OF A CONCRETE STORM WATER CHASE NEAR A FIRE HYDRANT.	NAVD88=4971.69 NGVD29 =4968.49
29-94	(DESTROYED BY CONSTRUCTION)	
34-94	ON THE NORTH SIDE OF KECHTER ROAD, AT THE SOUTHEAST CORNER OF THE PROPERTY AT 2524 KECHTER ROAD, ON TOP OF A CONCRETE SLAB .	NAVD88=4938.58 NGVD29 =4935.39
37-94	ON TOP OF THE SOUTH END OF THE EAST PARAPET WALL OF A BRIDGE ON FAIRWAY SIX DR., OVER THE MAIL CREEK IRRIGATION DITCH.	NAVD88=4984.67 NGVD29 =4981.46
38-94	AZIMUTH MARK (3 1/4" ALUMINUM CAP) ON THE NORTH SIDE OF TRILBY RD. 1/2 MILE WEST OF COLLEGE AVE. AT THE SOUTHWEST CORNER OF 508 WEST TRILBY RD. (GOOD SAMARITAN RETIREMENT CENTER). ALSO 5.5 FT WEST OF A POWERPOLE AND 24.5 FT SOUTH OF A WOOD FENCE.	NAVD88=5093.76 NGVD29 =5090.58
39-94	(DESTROYED BY CONSTRUCTION)	
41-94	SOUTH SHIELDS ST. AT BRIDGE OVER FOSSIL CREEK (300 FEET NORTH OF FOSSIL CREEK DR.), ON THE EAST PARAPET WALL OF THE BRIDGE.	NAVD88=5008.63 NGVD29 =5005.43
43-94	ON TOP OF THE NORTHEAST WINGWALL OF THE BRIDGE ON FOSSIL CREEK DR. OVER FOSSIL CREEK POND, JUST EAST OF PLEASANT LANE.	NAVD88=4972.68 NGVD29 =4969.48

46-94	WEST SIDE OF SOUTH TAFTHILL ROAD AT THE NORTH SIDE OF THE ENTRANCE TO THE LARIMER COUNTY LANDFILL, ON A CONCRETE WATER METER MANHOLE.	NAVD88=5133.26 NGVD29 =5130.07
47-94	ON THE EAST SIDE OF SOUTH COLLEGE AVE.. AT ROBERT BENSON LAKE, ON TOP OF THE SOUTHEAST CORNER OF AN INLET.	NAVD88=5022.72 NGVD29 =5019.54
1-96	ON THE WEST SIDE OF TIMBERLINE RD, ONE HALF-MILE SOUTH OF HARMONY ROAD, APPROXIMATELY 50 FEET WEST OF THE EXISTING FLOWLINE , ON THE NORTH END OF A CONCRETE DIKE STUCTURE ON THE WEST SIDE OF TIMBERLINE RD.	NAVD88=4945.01 NGVD29 =4941.81
2-96	SOUTHEAST CORNER OF KEENLAND DR. AND McMURRY DR, ON THE NORTH END OF A CONCRETE HEADWALL.	NAVD88=4958.31 NGVD29 =4955.11
3-96	ON THE SOUTH SIDE OF DERRY DR. APPROX. 150 FEET EAST OF O'LEARY CT., ON THE SOUTHEAST CORNER OF A STORM INLET STRUCTURE.	NAVD88=4958.99 NGVD29 =4955.80
4-96	ON THE SOUTH SIDE OF MEADOW PASSWAY APPROX. 150 FEET EAST OF PARKWAY CIRCLE EAST , ON THE EAST END OF A CONCRETE HEADWALL TO THE MAIL CREEK DITCH.	NAVD88=4939.14 NGVD29 =4935.93
5-96	ON SOUTH SIDE OF HINSDALE DR. APPROX. 250 FEET EAST OF ASHFORD LANE ON THE SOUTHEAST CORNER OF A STORM INLET STRUCTURE (NEAR 637 HINSDALE).	NAVD88=5045.30 NGVD29 =5042.11
7-96	SOUTHWEST CORNER OF SOUTH LEMAY AVE. AND PROVINCE DR, ON THE NORTHWEST CORNER OF A STORM INLET.	NAVD88=4962.53 NGVD29 =4959.34
8-96	NORTH SIDE OF CARPENTER RD., APPROX. 200 FEET EAST OF SOUTH LEMAY AVE., ON THE WEST END OF A CONCRETE HEADWALL.	NAVD88=4951.65 NGVD29 =4948.46
10-96	SOUTHEAST CORNER OF CARPENTER RD. (COUNTY ROAD 32) AND TIMBERLINE ROAD, ON THE WEST SIDE OF A CONCRETE TELEPHONE PAD BASE.	NAVD88=4918.32 NGVD29 =4915.12
1-97	100 FEET NORTH OF THE INTERSECTION OF MOSS CREEK DR. AND BUTTE PASS DR., ON THE SOUTH END OF THE WEST PARAPET WALL OF A BRIDGE.	NAVD88=5074.21 NGVD29 =5071.02
2-97	APPROXIMATELY 150 FEET WEST OF 600 SKYSAIL LANE, ON THE NORTHEAST WINGWALL OF THE FEEDER CANAL TO WARREN LAKE.	NAVD88=5002.64 NGVD29 =4999.44

3-97	AT THE NORTH MOST END OF ATTLEBORO CT. ON THE TOP OF A CONCRETE STORM INLET STRUCTURE.	NAVD88=4968.11 NGVD29 =4964.91
4-97	ACROSS FROM 2548 SUNSTONE DRIVE ON THE TOP OF A CONCRETE STORM INLET STRUCTURE ON THE SOUTH SIDE OF SUNSTONE DRIVE	NAVD88=4937.46 NGVD29 =4934.27
5-97	ON THE WEST SIDE OF WETTERHORN DR. BETWEEN RED MOUNTAIN CT. AND COAL BANK DR., ON THE TOP OF A CONCRETE STORM INLET.	NAVD88=4922.38 NGVD29 =4919.19
6-97	AT THE NORTHEAST CORNER OF SILVERWOOD DR. AND IVY ST., ON THE TOP OF A CONCRETE STORM INLET.	NAVD88=4962.35 NGVD29 =4959.16
7-97	SOUTHWEST CORNER OF SWALLOW RD. AND STOVER ST., ON THE TOP OF THE TRAFFIC SIGNAL BASE.	NAVD88=4996.53 NGVD29 =4993.35
8-97	SOUTHWEST CORNER OF SWALLOW RD. AND MEADOWLARK AVE. ON THE TOP OF A TRAFFIC SIGNAL BASE.	NAVD88=5052.96 NGVD29 =5049.78
10-97	ON THE EAST CONCRETE BASE OF A SUPPORT POST TO THE PICNIC SHELTER IN ROSSBOROUGH PARK.	NAVD88=5094.79 NGVD29 =5091.60
11-97	AT THE EAST MOST END OF MICHENER DRIVE, ON THE NORTH END OF THE WEST HEADWALL TO THE PEDESTRIAN BRIDGE OVER SPRING CREEK.	NAVD88=5112.44 NGVD29 =5109.26
12-97	ON WEST STUART ST. BETWEEN ZENITH COURT AND RYELAND LANE, ON THE SOUTH END OF THE EAST HEADWALL OF THE CANAL BRIDGE.	NAVD88=5116.62 NGVD29 =5113.44
13-97	BETWEEN 1419 AND 1425 WINFIELD DR., ON THE TOP OF A STORM INLET STRUCTURE AT THE NORTH END OF A PEDESTRIAN ACCESS.	NAVD88=5055.87 NGVD29 =5052.69
14-97	APPROXIMATELY 100 FEET WEST OF THE INTERSECTION OF CENTRE AVE. AND RESEARCH BLVD., ON THE WEST END OF THE SOUTH HEADWALL ON CENTRE AVE.	NAVD88=5051.76 NGVD29 =5048.58
15-97	ON THE TOP BACK OF WALK ON THE WEST SIDE OF STOVER ST. AT THE BRIDGE OVER THE ARTHUR DITCH. (NEAR THE STOVER AND DARTMOUTH INTERSECTION).	NAVD88=4995.75 NGVD29 =4992.57
16-97	AT THE EAST MOST END OF STUART ST. AT THE SOUTHEAST CORNER OF EDORA PARK, ON TOP OF A STORM INLET STRUCTURE.	NAVD88=4952.04 NGVD29 =4948.86

17-97	ON THE NORTHEAST SIDE OF RIVERSIDE AVE. ON A MANHOLE BASE IN THE GREEN BELT BETWEEN THE BACK OF WALK AND THE PARKING AREA, APPROXIMATELY 25 FEET SOUTHEAST OF THE SOUTHEAST ENTRANCE OF 1500 RIVERSIDE AVE.	NAVD88=4944.08 NGVD29 =4940.90
18-97	AT SOUTHWEST CORNER OF SOUTH LEMAY AVE.AND ELIZABETH ST., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=4976.39 NGVD29 =4973.21
19-97	AT THE SOUTHEAST CORNER OF WEST ELIZABETH AND SHIELDS ST., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5025.74 NGVD29 =5022.56
20-97	AT THE SOUTHWEST CORNER OF WEST ELIZABETH AND CONSTITUTION AVE. ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5050.15 NGVD29 =5046.97
21-97	AT THE NORTHWEST CORNER OF WEST ELIZABETH ST. AND TAFT HILL RD., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5076.71 NGVD29 =5073.53
22-97	ON A MANHOLE BASE NEAR THE WEST RIGHT OF WAY OF OVERLAND TRAIL AND WEST ELIZABETH ST.	NAVD88=5141.86 NGVD29 =5138.68
23-97	ON THE SOUTH END OF THE WEST HEADWALL OF THE BRIDGE OVER THE PLEASANT VALLEY AND LAKE CANAL AT OVERLAND TRAIL. 50 FEET NORTH OF THE INTERSECTION OF OVERLAND TRAIL AND MULBERRY ST.	NAVD88=5124.41 NGVD29 =5121.24
24-97	ON A CONCRETE HEADWALL PIPE IN ROGERS PARK. SOUTH OF THE PARKING AREA OF ROGERS PARK (150 FEET SOUTH OF LARGE BARN) 2500 BLOCK OF MULBERRY ST.	NAVD88=5102.71 NGVD29 =5099.53
25-97	AT THE SOUTHWEST CORNER MULBERRY ST. AND TAFT HILL RD, ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5071.25 NGVD29 =5068.08
29-97	NORTHEAST CORNER OF MULBERRY ST. AND WHEDBEE ST., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=4978.01 NGVD29 =4974.83
31-97	SOUTHWEST CORNER OF LAPORTE AVE. AND SHEILDS ST., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5023.65 NGVD29 =5020.48

33-97	IN FRONT OF 2540 WEST LAPORTE AVE., APPROX. 70 FT EAST OF CENTERLINE OF DRIVEWAY, 3.5 FT SOUTH OF A FENCE, 3.0 FT SOUTHEAST OF A POWER POLE, ON A CONCRETE SLAB.	NAVD88=5088.19 NGVD29 =5085.01
35-97	ON THE NORTHEAST WINGWALL TO THE PLEASANT VALLEY AND LAKE CANAL AT VINE DR. NEAR THE ENTRANCE TO THE POUFRE FIRE AUTHORITY TRAINING CENTER, WEST OF OVERLAND TRAIL.	NAVD88=5128.40 NGVD29 =5125.23
36-97	ON THE WEST END OF THE SOUTH HEADWALL OF THE BRIDGE OVER THE NEW MERCER CANAL AT VINE DR. JUST EAST OF MERCER DR.	NAVD88=5064.31 NGVD29 =5061.14
37-97	ON TOP OF A CONCRETE TRAFFIC SIGNAL BASE AT THE EAST ENTRANCE TO LINCOLN JR. HIGH SCHOOL., ON THE SOUTH SIDE OF VINE DR.	NAVD88=5027.21 NGVD29 =5024.04
38-97	ON THE SOUTH END OF THE EAST HEADWALL OF A BRIDGE OVER THE ARTHUR DITCH AT SHIELDS ST., 400 FEET NORTH OF THE INTERSECTION OF VINE DR. AND SHIELDS ST.	NAVD88=5011.33 NGVD29 =5008.16
39-97	ON THE SOUTHWEST WINGWALL TO THE BRIDGE OVER THE CACHE LA POUFRE RIVER AT SHIELDS ST.	NAVD88=4996.64 NGVD29 =4993.47
42-97	ON TOP OF A STORM INLET STRUCTURE ON THE EAST SIDE OF REDWOOD ST., 400 FEET SOUTH OF WILLOX LANE.	NAVD88=4969.93 NGVD29 =4966.75
43-97	ON THE SOUTH END OF THE WEST HEADWALL OF THE LAKE CANAL BRIDGE AT NORTH LEMAY AVE., 200 FEET SOUTH OF THE INTERSECTION OF LEMAY AVE. AND CONIFER ST.	NAVD88=4960.11 NGVD29 =4956.94
1-98	ON THE SOUTHWEST CORNER OF A BRIDGE ABUTMENT WALL (BRIDGE NO. B-16-T) AT THE LAKE CANAL AND MULBERRY STREET, EAST OF 3201 EAST MULBERRY AT A DEAD END OF THE SOUTH FRONTAGE ROAD.	NAVD88=4928.70 NGVD29 =4925.51
2-98	(DESTROYED BY CONSTRUCTION)	
3-98	ON THE SOUTHWEST CORNER OF THE TOP OF A CONCRETE ELECTRICAL VAULT, EAST OF THE EAST I-25 FRONTAGE ROAD, SOUTHEAST OF THE I-25 BRIDGE AND RAILROAD TRACKS (HELI-SUPPORT INC., 120 NORTHEAST FRONTAGE ROAD).	NAVD88=4946.05 NGVD29 =4942.87

4-98	ON THE SOUTH END OF THE WEST ABUTMENT WALL AT I-25 AND VINE DRIVE.	NAVD88=4987.27 NGVD29 =4984.08
5-98	ON A CONCRETE IRRIGATION STRUCTURE, ON THE SOUTH SIDE OF VINE DRIVE, APPROXIMATELY 100 FEET WEST OF 3500 EAST VINE DRIVE.	NAVD88=4971.35 NGVD29 =4968.16
7-98	ON A CONCRETE SLAB, 2 FEET NORTHWEST OF THE TRAFFIC SIGNAL BASE, ON THE NORTHWEST CORNER OF WEST PROSPECT RD. AND FUQUA ST.	NAVD88=5100.33 NGVD29 =5097.16
8-98	ON A SIGNAL POLE BASE AT THE S.E. CORNER OF SOUTH TAFT HILL RD AND NEW HARMONY RD (CR 38E).	NAVD88=5154.87 NGVD29 =5151.68
1-99	ON A POWER TOWER BASE AT THE NORTHEAST CORNER OF SHIELDS STREET AND DRAKE ROAD.	NAVD88=5062.44 NGVD29 =5059.26
1-00	ON A CATCH BASIN AT THE SOUTHEAST CORNER OF VINE DR. AND COLLEGE AVE.	NAVD88=4968.74 NGVD29 =4965.57
3-00	ON A PARAPET WALL AT THE NORTHWEST END OF THE LINCOLN AVE. BRIDGE NEAR THE NORTHEAST CORNER OF LINCOLN AVE. AND WILLOW ST.	NAVD88=4967.33 NGVD29 =4964.15
4-00	(DESTROYED BY CONSTRUCTION)	
5-00	ON THE TOP OF CURB AT THE SIGNAL POLE BASE AT THE NORTHWEST CORNER OF LINDEN ST. AND JEFFERSON ST.	NAVD88=4978.05 NGVD29 =4974.87
6-00	ON A CATCH BASIN AT THE NORTHWEST CORNER OF MULBERRY ST. AND COLLEGE AVE.	NAVD88=4993.85 NGVD29 =4990.68
7-00	ON A STREET LIGHT POLE BASE AT THE SOUTHEAST CORNER OF STOVER ST. AND ELIZABETH ST.	NAVD88=4989.03 NGVD29 =4985.85
GPS 7	ALUMINUM MONUMENT IN A MONUMENT BOX STAMPED "GPS #7" ON THE NORTHEAST CORNER OF MULBERRY ST. AND RIVERSIDE DR., WEST OF THE R.R. CROSSING ARM, BETWEEN THE CURB AND THE SIDEWALK.	NAVD88=4964.95 NGVD29 =4961.77
9-00	REMOVED- BY- CONSTRUCTION	
10-00	ON THE BACK OF WALK AT THE HANDICAP RAMP, AT THE NORTH END OF SHERWOOD ST. AT THE ENTRANCE TO MARTINEZ PARK, APPROXIMATELY 180 FT. NORTH OF THE CENTERLINE OF THE SOUTH R.R. TRACK.	NAVD88=4991.61 NGVD29 =4988.43

1-01	ON A MANHOLE RING AT THE NORTHWEST CORNER OF ZIEGLER ROAD AND HORSETOOTH ROAD.	NAVD88=4920.94 NGVD29 =4917.75
2-01	NORTH SIDE OF HORSETOOTH ROAD ON THE CONCRETE BASE OF THE WEST GATE POST TO THE LAFARGE GRAVEL PIT APPROX. 1/2 MILE EAST OF ZIEGLER ROAD.	NAVD88=4861.39 NGVD29 =4858.21
3-01	SOUTHEAST CORNER OF A STEEL AND WOOD FOOT BRIDGE ABUTMENT AT THE ENTRANCE TO STRAUSS CABIN, NEAR THE INTERSECTION OF HORSETOOTH ROAD AND STRAUSS CABIN RD.	NAVD88=4860.19 NGVD29 =4857.00
4-01	SOUTHWEST WING WALL OF AN IRRIGATION STRUCTURE ON THE EAST SIDE OF STRAUSS CABIN RD. , .1 MILE NORTH OF MARIAH LANE.	NAVD88=4856.57 NGVD29 =4853.38
5-01	SOUTHEAST CORNER OF STRAUSS CABIN RD. AND HARMONY ROAD IN A STREET LIGHT POLE BASE.	NAVD88=4850.95 NGVD29 =4847.76
7-01	NORTH SIDE OF HARMONY ROAD ON AN IRRIGATION STRUCTURE APPROX 100 FT. WEST OF THE WEST CURB LINE OF THE EAST ENTRANCE TO H.P.	NAVD88=4914.52 NGVD29 =4911.33
8-01	SOUTHEAST CORNER OF STRAUSS CABIN ROAD AND C.R. 34E ON THE NORTHEAST CORNER OF AN IRRIGATION STRUCTURE.	NAVD88=4877.25 NGVD29 =4874.06
9-01	(DESTROYED)	
10-01	EAST SIDE OF THE WEST FRONTAGE ROAD OF I-25, .2 MILES NORTH OF THE INTERSECTION OF C.R. 34E AND THE WEST FRONTAGE ROAD ON A 10 X 10 AREA INLET.	NAVD88=4839.77 NGVD29 =4836.57
11-01	WEST SIDE OF WEST FRONTAGE ROAD OF I-25 APPROXIMATELY .4 MILES SOUTH OF C.R. 34E AND APPROX. 100 FT. NORTH OF THE "LARIMER COUNTY FAIRGROUNDS NEXT TWO EXITS" SIGN, ON THE NORTH END OF A CONCRETE HEAD WALL.	NAVD88=4833.49 NGVD29 =4830.30
12-01	WEST SIDE OF WEST FRONTAGE ROAD OF I-25 APPROXIMATELY .25 MILES NORTH OF HIGHWAY 392 ON AN IRRIGATION STRUCTURE.	NAVD88=4861.63 NGVD29 =4858.44
15-01	SOUTH SIDE OF CARPENTER RD. APPROX. .8 MILES WEST OF THE WEST FRONTAGE ROAD OF I-25 ON THE CURB AT THE NORTH END OF THE MEDIAN AT THE ENTRANCE TO EAGLE CREEK RANCH.	NAVD88=4915.32 NGVD29 =4912.13

16-01	SOUTH SIDE OF WILLOW SPRINGS WAY APPROX. 50 FT. WEST OF THE INTERSECTION OF WILLOW SPRINGS WAY AND TIMBERLINE ROAD ON THE SOUTHWEST CORNER OF A STORM INLET.	NAVD88=4956.98 NGVD29 =4953.79
17-01	WEST SIDE OF ZIEGLER ROAD APPROX .5 MILES SOUTH OF HARMONY ROAD, 300 FEET NORTH OF ROCK CREEK DRIVE, ON THE SOUTHEAST CORNER OF A 6 X 6 AREA INLET.	NAVD88=4922.66 NGVD29 =4919.47
18-01	EAST SIDE OF ZIEGLER ROAD APPROX. 300 FT. NORTH OF ROOKERY ROAD ON THE NORTHEAST CORNER OF AN IRRIGATION STRUCTURE.	NAVD88=4926.64 NGVD29 =4923.45
19-01	COLO. DEPT. OF HIGHWAYS BRASS CAP ON THE WEST END OF THE SOUTH PARAPET WALL OF BRIDGE "B 17 BN" AT KECHTER ROAD AND I-25. (CITY OF FORT COLLINS DESIGNATION NOT STAMPED ON CAP).	NAVD88=4855.84 NGVD29 =4852.64
20-01	0.5 MILES NORTH OF KECHTER RD. (C.R. 36) AND EAST OF THE EAST FRONTAGE ROAD OF I-25 AND AT THE CENTER LINE OF THE DRIVEWAY TO 5150 SE FRONTAGE ROAD ON A MONUMENT STAMPED "T6N R68W C1/4 1997".	NAVD88=4839.86 NGVD29 =4836.67
21-01	NORTH SIDE OF HARMONY ROAD, EAST OF THE NORTHBOUND RAMP TO I-25 ON A STORM INLET DRAINING HARMONY ROAD.	NAVD88=4868.56 NGVD29 =4865.37
22-01	EAST SIDE OF THE EAST FRONTAGE ROAD OF I-25 APPROX. 1.5 MILES NORTH OF HARMONY ROAD, AND SOUTH OF THE DRIVEWAY TO HERITAGE FRAMES ON THE SW CORNER OF AN IRRIGATION STRUCTURE.	NAVD88=4894.55 NGVD29 =4891.36
23-01	EAST SIDE OF THE EAST FRONTAGE ROAD OF I-25 APPROXIMATELY 1 MILE SOUTH OF PROSPECT ROAD AND NORTH OF THE DRIVEWAY TO SAINT JAMES ORTHODOX CHURCH ON AN IRRIGATION STRUCTURE.	NAVD88=4897.43 NGVD29 =4894.24
24-01	EAST SIDE OF THE EAST FRONTAGE ROAD OF I-25 APPROX. .5 MILES SOUTH OF PROSPECT ROAD AND JUST NORTH OF DIRT DRIVEWAY TO MOUNTAIN VIEW STABLES ON AN IRRIGATION STRUCTURE.	NAVD88=4905.67 NGVD29 =4902.48
25-01	EAST SIDE OF THE EAST FRONTAGE ROAD OF I-25 APPROX. .5 MILES NORTH OF PROSPECT ROAD ON THE NORTH END OF A HEAD WALL TO AN IRRIGATION CANAL.	NAVD88=4921.60 NGVD29 =4918.41

26-01	SOUTH SIDE OF HIGHWAY 14 (EAST MULBERRY ST.), APPROX. .4 MILES EAST OF THE CENTERLINE OF I-25, ON THE BRIDGE PARAPET WALL, ON A BRASS CAP STAMPED "COLO. DEPT OF HIGHWAYS". (CITY OF FORT COLLINS DESIGNATION NOT STAMPED ON CAP).	NAVD88=4940.45 NGVD29 =4937.26
27-01	NORTHEAST CORNER OF C.R. 5 AND E. PROSPECT RD., ON THE END BLOCK OF A 15" DIAMETER STEEL PIPE.	NAVD88=4918.13 NGVD29 =4914.94
28-01	(DESTROYED BY CONSTRUCTION)	
29-01	SOUTH SIDE OF PROSPECT ROAD, EAST OF THE INTERSECTION OF THE WEST FRONTAGE ROAD OF I-25 AND PROSPECT ROAD, EAST OF THE COLORADO WELCOME CENTER, ON A CONCRETE HEADWALL TO AN IRRIGATION PIPE.	NAVD88=4904.41 NGVD29 =4901.22
30-01	(DESTROYED)	
31-01	SOUTH SIDE OF COUNTRY CLUB RD. AND EAST SIDE OF LONGVIEW DRIVE, APPROX. .4 MILES EAST OF NORTH LEMAY AVENUE, ON THE CURB NEAR A PILLAR ON THE EAST SIDE OF THE ROAD.	NAVD88=5052.75 NGVD29 =5049.57
32-01	ON THE EAST SIDE OF TURNBERRY RD., APPROX. .6 MILES NORTH OF RICHARDS LAKE RD., ON THE SOUTHWEST CORNER OF AN IRRIGATION STRUCTURE.	NAVD88=5071.62 NGVD29 =5068.44
34-01	NORTH SIDE OF RICHARDS LAKE RD., APPROX. .5 MILES EAST OF TURNBERRY RD. ON THE EAST END OF A HEADWALL OVER AN IRRIGATION DITCH.	NAVD88=5026.59 NGVD29 =5023.41
35-01	SOUTH SIDE OF RICHARDS LAKE RD., APPROX. 200 FT. EAST OF THE INTERSECTION OF RICHARDS LAKE RD. AND GIDDINGS RD. ON THE NORTHEAST CORNER OF THE CONCRETE BASE TO A WELL HEAD.	NAVD88=5025.77 NGVD29 =5022.59
36-01	ON THE CENTERLINE OF GIDDINGS RD., APPROX. .5 MILES NORTH OF EAST MOUNTAIN VISTA DR. ON THE 1/4 CORNER MONUMENT.	NAVD88=5006.60 NGVD29 =5003.42
37-01	NORTH SIDE OF MOUNTAIN VISTA DRIVE APPROX. .1 MILE EAST OF GIDDINGS RD., ON THE SOUTHEAST CORNER OF A CONCRETE BASE FOR TELEPHONE BOXES.	NAVD88=4995.63 NGVD29 =4992.44

38-01	EAST SIDE OF TIMBERLINE ROAD, APPROX. 100 FT. SOUTH OF THE INTERSECTION OF TIMBERLINE ROAD AND MOUNTAIN VISTA DRIVE ON THE EAST SIDE OF THE CONCRETE BASE TO A MANHOLE.	NAVD88=5004.07 NGVD29 =5000.89
39-01	EAST SIDE OF THE EAST FRONTAGE ROAD OF I-25, APPROX. .5 MILES SOUTH OF MOUNTAIN VISTA DRIVE AT BRIDGE "B 16 FJ, ON A BRASS CAP STAMPED "COLO. DEPT. OF HIGHWAYS BENCHMARK". (CITY OF FORT COLLINS DESIGNATION NOT STAMPED ON CAP.)	NAVD88=4984.80 NGVD29 =4981.62
40-01	WEST SIDE OF THE LARIMER AND WELD IRRIGATION DITCH, ON A CONCRETE HEAD WALL, APPROX. .7 MILES NORTH OF HIGHWAY 14 ALONG THE DITCH ROAD, NORTHERLY FROM 215 CAMINO DEL MUNDO DRIVE.	NAVD88=4977.21 NGVD29 =4974.03
41-01	ON THE NORTH SIDE OF EAST VINE DRIVE , WEST OF 3024 EAST VINE DRIVE, ON THE NORTH SIDE OF A ROUND ELECTRICAL VAULT.	NAVD88=4969.72 NGVD29 =4966.54
43-01	EAST SIDE OF TIMBERLINE ROAD, AT THE SOUTH ENTRANCE TO C.S.U. RIGDEN FARM, ON THE NORTH END OF THE HEAD WALL OF A STORM DITCH.	NAVD88=4937.02 NGVD29 =4933.84
44-01	NORTH SIDE OF STATE HIGHWAY 14, WEST OF THE INTERSECTION OF CR 5 AND SH 14, ON THE WEST END OF THE ABUTMENT WALL TO THE BOX CULVERT FOR THE LARIMER AND WELD IRRIGATION DITCH.	NAVD88=4976.00 NGVD29 =4972.81
45-01	SOUTH SIDE OF TRILBY ROAD, APPROX. .5 MILES EAST OF TAFT HILL ROAD, ON AN 8 X 8 CONCRETE PAD FOR A WATER VALVE AND A LARGE BLACK PIPE.	NAVD88=5069.38 NGVD29 =5066.19
46-01	APPROX. 1/4 MILE EAST OF THE INTERSECTION OF EAST HORSETOOTH RD. AND STRAUSS CABIN ROAD, NORTH OF THE GREAT WESTERN R.R. TRACKS, UNDER THE NORTH BOUND LANES OF I-25 IN A CONCRETE MANHOLE BASE.	NAVD88=4866.75 NGVD29 =4863.56
47-01	SOUTH SIDE OF PROSPECT ROAD WHERE IT INTERSECTS I-25, ON THE WEST END OF THE PARAPET WALL TO THE BRIDGE (B 16 AM) OVER I-25 , ON A DEPT OF HIGHWAYS BRASS CAP.	NAVD88=4934.13 NGVD29 =4930.93
48-01	APPROXIMATELY 1/2 MILE SOUTH OF HORSETOOTH ROAD, WEST OF COLLEGE AVENUE AT THE ENTRANCE TO BARNES AND NOBLE BOOKSTORE, IN THE NORTHEAST CORNER OF THEIR PARKING LOT, ON A CONCRETE CURB.	NAVD88=5036.76 NGVD29 =5033.57

50-01	NORTH SIDE OF CARPENTER RD., APPROXIMATELY ONE HALF MILE EAST OF SOUTH LEMAY AVE. ON THE CONCRETE BASE OF A LARGE POWER TOWER.	NAVD88=4967.27 NGVD29 =4964.08
51-01	WEST SIDE OF TIMBERLINE ROAD AT THE NORTH END OF A BRIDGE OVER THE POU DRE RIVER ON TOP OF THE PARAPET WALL APPROXIMATELY .2 MILES SOUTH OF THE SOUTH SIDE OF WEST MULBERRY STREET.	NAVD88=4926.93 NGVD29 =4923.75
2-02	EAST SIDE OF TIMBERLINE ROAD, 1/2 MILE NORTH OF TRILBY ROAD, ON THE MIDDLE CONCRETE PAD TO AN ELECTRIC BOX.	NAVD88=4964.37 NGVD29 =4961.18
3-02	NORTHEAST CORNER OF THE INTERSECTION OF KECHTER ROAD AND ZIEGLER ROAD ON THE NORTHWEST CORNER OF A CONTROL GATE TO AN IRRIGATION STRUCTURE.	NAVD88=4918.60 NGVD29 =4915.41
4-02	SOUTHEAST CORNER OF THE INTERSECTION OF HARMONY ROAD AND TIMBERLINE ROAD IN A TRAFFIC SIGNAL BASE.	NAVD88=4969.52 NGVD29 =4966.32
5-02	1/2 MILE SOUTH OF HARMONY ROAD, APPROXIMATELY 200 FEET NORTH OF WOODED CREEK COURT, ON THE WEST SIDE OF SHIELDS STREET, ON THE NORTHWEST CORNER OF A STORM INLET.	NAVD88=5089.11 NGVD29 =5085.91
6-02	(DESTROYED BY CONSTRUCTION)	
7-02	ON THE NORTHWEST CORNER OF THE INTERSECTION OF TAFT HILL ROAD AND DRAKE ROAD IN THE CONCRETE BASE TO A LARGE POWER TOWER.	NAVD88=5094.15 NGVD29 =5090.97
8-02	ON THE SOUTHEAST CORNER OF THE INTERSECTION OF LEMAY AVENUE AND MULBERRY STREET, IN THE CURB, ON THE SOUTHEAST SIDE OF A TRIANGULAR ISLAND THAT CONTAINS THE TRAFFIC SIGNAL.	NAVD88=4939.27 NGVD29 =4936.08
9-02	(DESTROYED BY CONSTRUCTION)	
1-03	NORTH SIDE OF MULBERRY STREET APPROXIMATELY 60 FEET EAST OF THE EAST FLOWLINE OF BRYAN STREET, ON THE WEST WINGWALL OF THE BRIDGE OVER LARIMER COUNTY DITCH #2.	NAVD88=5049.30 NGVD29 =5046.12
2-03	SOUTH SIDE OF KECHTER ROAD APPROXIMATELY .6 MILES WEST OF STRAUSS CABIN ROAD ON THE EAST END OF THE SOUTH PARAPET WALL OF THE BRIDGE OVER THE DIXON CANYON LATERAL.	NAVD88=4898.14 NGVD29 =4894.95

3-03	SOUTHWEST CORNER OF EAST HORSETOOTH ROAD AND LEMAY AVENUE AT THE NORTH ENTRANCE TO WARREN PARK, ON A SIGNAL POLE BASE.	NAVD88=4988.82 NGVD29 =4985.63
1-07	(DESTROYED BY CONSTRUCTION)	
2-07	ON VINE DRIVE, 0.1 MILE WEST OF TIMBERLINE RD. , 50 FT. NORTH OF THE ENTRANCE TO BULL RUN TOWNHOMES ON THE NORTHWEST CORNER OF THE WEST CATCHBASIN.	NAVD88=4959.98 NGVD29 =4956.80
3-07	NORTHWEST CORNER OF TIMBERLINE RD. AND PROSPECT RD. ON THE NORTHWEST CORNER OF A TRAFFIC SIGNAL BASE.	NAVD88=4919.13 NGVD29 =4915.95
4-07	SOUTHWEST CORNER OF TIMBERLINE RD. AND BEAR MOUNTAIN DR. DUE NORTH OF NEW POLICE BUILDING ON THE SOUTHWEST CORNER OF A CATCH BASIN.	NAVD88=4942.84 NGVD29 =4939.66
5-07	SOUTHWEST CORNER OF RIGDEN PARKWAY AND DRAKE RD. ON SOUTHWEST CORNER OF A CATCH BASIN.	NAVD88=4926.96 NGVD29 =4923.77
6-07	SOUTHEAST CORNER OF HARMONY RD. AND ZIEGLER RD. 50 FEET +/- SOUTH OF THE EDGE OF ASPHALT ON THE WALL OF A CONCRETE IRRIGATION DROP STRUCTURE.	NAVD88=4931.08 NGVD29 =4927.89
7-07	0.5 MILES SOUTH OF HARMONY RD. AND STRAUSS CABIN RD., ON THE WEST SIDE OF STRAUSS CABIN RD., ON THE NORTHWEST WINGWALL OF THE BRIDGE OVER AN IRRIGATION CANAL ON A LARIMER COUNTY CAP.	NAVD88=4879.16 NGVD29 =4875.97
8-07	NORTHWEST CORNER OF WEST HORSETOOTH RD. AND SHIELDS ST. ON A TRAFFIC SIGNAL BASE.	NAVD88=5084.54 NGVD29 =5081.35
9-07	SOUTHEAST CORNER OF SHIELDS ST. AND WILLOX LANE ON THE SOUTHEAST WINGWALL OF THE BRIDGE OVER AN IRRIGATION DITCH.	NAVD88=4999.15 NGVD29 =4995.98
10-07	SOUTHEAST CORNER OF TAFTHILL RD. AND LAPORTE AVE. ON THE NORTHEAST WINGWALL OF THE BRIDGE OVER AN IRRIGATION DITCH.	NAVD88=5062.84 NGVD29 =5059.67
11-07	NORTHWEST CORNER OF OVERLAND TRAIL AND LAPORTE AVE. ON A TRAFFIC SIGNAL BASE.	NAVD88=5122.17 NGVD29 =5118.99

12-07	SOUTH SIDE OF VINE DR. ON THE SOUTH HEADWALL OF THE BRIDGE OVER DRY CREEK BASIN 0.4 MILES EAST OF NORTH LEMAY AVE.	NAVD88=4947.86 NGVD29 =4944.68
1-08	SOUTH SIDE OF ELIZABETH ST., 0.4 MILES WEST OF TAFTHILL RD., 135 FEET WEST OF THE CENTERLINE OF TIMBER LN., ON THE CONCRETE SLAB FOR A PHONE BOX.	NAVD88=5107.53 NGVD29 =5104.36
2-08	NORTH SIDE OF PROSPECT RD. APPROX. 0.5 MILES EAST OF LEMAY AVE. ON THE ISLAND CURB AT LONGS PEAK RD.	NAVD88=4958.58 NGVD29 =4955.40
3-08	SOUTHWEST CORNER OF MULBERRY ST. AND SHIELDS ST. ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5030.29 NGVD29 =5027.12
4-08	ON SOUTH SIDE OF HARMONY RD. AT THE NORTHWEST CORNER OF 625 EAST HARMONY RD. (FRONT RANGE BAPTIST CHURCH), ON THE NORTH WALL OF A CONCRETE IRRIGATION DROP STRUCTURE.	NAVD88=5017.14 NGVD29 =5013.94
5-08	NORTHWEST CORNER OF TURNBERRY RD. AND COUNTRY CLUB RD. ON THE SOUTHWEST CORNER OF AN AREA INLET, APPROX. 35 FEET NORTH OF THE EDGE OF ASPHALT.	NAVD88=5060.83 NGVD29 =5057.66
1-10	NORTHWEST CORNER OF COLLEGE AVE. AND WILLOX LANE ON THE SOUTHWEST COR. OF A STORM INLET.	NAVD88=4987.25 NGVD29 =4984.08
1-11	SOUTHEAST CORNER OF MULBERRY ST. AND LOOMIS AVE. , AT THE NORTHEAST CORNER OF A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5008.62 NGVD29 =5005.44
1-12	SOUTHEAST CORNER OF LAPORTE AVE. AND WHITCOMB ST., ON A STORM INLET ON WHITCOMB STREET.	NAVD88=5004.15 NGVD29 =5000.97
2-12	SOUTHWEST CORNER OF SOUTH COLLEGE AVE. AND SKYWAY DR. ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5005.56 NGVD29 =5002.37
3-12	APPROX. 500 FT WEST OF THE INTERSECTION OF HIGHWAY 392 AND THE WEST FRONTAGE ROAD OF INTERSTATE 25, ON THE SOUTH SIDE OF HIGHWAY 392, ON THE WEST END OF A CULVERT HEADWALL.	NAVD88=4881.67 NGVD29 =4878.48
1-13	SOUTHWEST CORNER OF COLLEGE AVE. AND MAPLE ST., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=4979.75 NGVD29 =4976.58

2-13	IN FRONT OF 3733 EAST MULBERRY ST.(SCHRADER'S COUNTRY STORE), ON THE SOUTH SIDE OF MULBERRY ST., ON THE SOUTHWEST CORNER OF A 5 FT BY 5 FT CONCRETE UTILITY VAULT.	NAVD88=4927.15 NGVD29 =4923.97
3-13	APPROX. 40 FT SOUTH OF THE LINDEN ST. BRIDGE OVER THE POUDE RIVER, ON THE WEST SIDE OF LINDEN ST. , ON A STORM INLET.	NAVD88=4962.27 NGVD29 =4959.10
4-13	NORTHWEST CORNER OF TURNBERRY RD. AND RICHARD'S LAKE RD., ON THE NORTH SIDE OF RICHARD'S LAKE RD., ON THE NORTHEAST CORNER OF A STORM INLET.	NAVD88=5069.89 NGVD29 =5066.72
5-13	SOUTHWEST CORNER OF TIMBERLINE RD. AND CARIBOU DR., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=4955.35 NGVD29 =4952.16
6-13	SOUTHWEST CORNER OF HARMONY RD. AND TIMBERLINE RD., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=4970.30 NGVD29 =4967.10
7-13	NORTHWEST CORNER OF HORSETOOTH RD. AND STOVER ST., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5005.69 NGVD29 =5002.50
8-13	SOUTHEAST CORNER OF HARMONY RD. AND SHIELDS ST., ON THE NORTHEAST CORNER OF A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5086.71 NGVD29 =5083.51
9-13	APPROXIMATELY 60 FT SOUTH OF TAFTHILL RD. AND MOFFETT DR.,ON THE WEST SIDE OF TAFTHILL RD., ON A STORM INLET.	NAVD88=5119.30 NGVD29 =5116.11
10-13	SOUTHEAST CORNER OF SHIELDS ST. AND TRILBY RD., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=5066.93 NGVD29 =5063.75
11-13	NORTHEAST CORNER OF TRILBY RD. AND SOUTHRIDGE GREENS BLVD., ON THE EAST SIDE OF SOUTHRIDGE GREENS BLVD., ON THE SOUTHEAST CORNER OF A STORM INLET.	NAVD88=4908.24 NGVD29 =4905.05
12-13	SOUTHEAST CORNER OF TIMBERLINE RD. AND TRILBY RD., ON A CONCRETE TRAFFIC SIGNAL BASE.	NAVD88=4926.67 NGVD29 = 4923.48
13-13	ON THE WEST SIDE OF STRAUSS CABIN RD., APPROXIMATELY 90 FT. SOUTH OF KECHTER RD., ON THE NORTHWEST CORNER OF A STORM INLET.	NAVD88=4887.05 NGVD29 =4883.86

AZARI	SOUTHWEST CORNER OF TAFT HILL RD. AND TRILBY RD., APPROX. 84 FEET SOUTH OF THE EDGE OF GRAVEL OF TRILBY RD. AND APPROX. 111.5 FEET WEST OF THE EDGE OF ASPHALT OF TAFT HILL RD. ON A LARIMER COUNTY CAP.	NAVD88=5137.69 NGVD29 =5134.50
CSU 2	THE MARK IS A STANDARD BRASS LARIMER COUNTY GEODETIC CONTROL DISK SET IN 2002, IN THE CAMPUS OF COLORADO STATE UNIVERSITY APPROX. 240.8 FEET SOUTH FROM THE CENTER LINE OF NORTH DRIVE, 46.6 FEET NORTHEAST FROM THE EDGE OF CSU LAGOON, 33 FEET SOUTHWEST FROM THE CENTER OF THE DELIVERY ROAD TO THE UNIVERSITY CLUB AND 1.1 FEET SOUTHWEST FROM THE EDGE OF THE SIDEWALK.	NAVD88=5006.29 NGVD29 =5003.12
J.A. COUNTY	3 INCH BRASS CAP SET IN CONCRETE BY THE CITY OF FORT COLLINS, APPROX. .18 MILES WEST OF THE INTERSECTION OF SUMMIT VIEW DR. AND EAST PROSPECT RD. AND APPROX. 224 FEET SOUTH OF THE CENTER OF EAST PROSPECT RD. ALSO 26 FEET EAST OF THE SOUTHEAST FENCE CORNER OF RUNNING DEER NATURAL AREA PARKING LOT.	NAVD88=4894.41 NGVD29 =4891.21
SALGADO	NGS MONUMENT SET IN CONCRETE ON THE NORTH SIDE OF DONELLA CT. 13 FEET NORTH OF DONELLA CT AND 8 FEET EAST OF THE ENTRANCE TO FIRE STATION NO. 6. APPROX. 135 FEET WEST OF SUMMITVIEW DR. AND DONELLA CT.	NAVD88=4932.83 NGVD29 =4929.64
A105	SEE THE NGS DESCRIPTION ON PAGE VI	NAVD88=4989.42 NGVD29 =4986.25
A409	SEE THE NGS DESCRIPTION ON PAGE XVI	NAVD88=5039.43 NGVD29 =5036.25
B402	SEE THE NGS DESCRIPTION ON PAGE I	NAVD88=4947.37 NGVD29 =4944.19
B409	SEE THE NGS DESCRIPTION ON PAGE XI	NAVD88=NONE NGVD29 =5000.20
BUD	SEE THE DESCRIPTION ON PAGE XV	NAVD88=5017.67 NGVD29 =5014.49
C322	SEE THE NGS DESCRIPTION ON PAGE VIII	NAVD88=4989.40 NGVD29 =4986.22
C402	SEE THE NGS DESCRIPTION ON PAGE III	NAVD88=4922.48 NGVD29 =4919.30

C409	SEE THE NGS DESCRIPTION ON PAGE VIII	NAVD88=5028.10 NGVD29 =5024.92
CO. COLLEGE	SEE THE NGS DESCRIPTION ON PAGE IX	NAVD88=5002.60 NGVD29 =4999.43
D322	SEE THE NGS DESCRIPTION ON PAGE IX	NAVD88=5034.46 NGVD29 =5031.28
D402	SEE THE NGS DESCRIPTION ON PAGE IV	NAVD88=4927.07 NGVD29 =4923.89
D409	SEE THE NGS DESCRIPTION ON PAGE XII	NAVD88=5023.41 NGVD29 =5020.22
E136	SEE THE NGS DESCRIPTION ON PAGE XIII	NAVD88=4995.38 NGVD29 =4992.21
E322	SEE THE NGS DESCRIPTION ON PAGE V	NAVD88=5034.40 NGVD29 =5031.21
E402	SEE THE NGS DESCRIPTION ON PAGE X	NAVD88=4925.22 NGVD29 =4922.04
F136	SEE THE NGS DESCRIPTION ON PAGE III	NAVD88=4957.52 NGVD29 =4954.34
F3	SEE THE NGS DESCRIPTION ON PAGE XIV	NAVD88=5002.13 NGVD29 =4998.96
G401	SEE THE NGS DESCRIPTION ON PAGE II	NAVD88=5113.84 NGVD29 =5110.69
R402	SEE THE NGS DESCRIPTION ON PAGE II	NAVD88=4942.21 NGVD29 =4939.03
S402	SEE THE NGS DESCRIPTION ON PAGE XIII	NAVD88=4997.54 NGVD29 =4994.37
T402	SEE THE NGS DESCRIPTION ON PAGE XII	NAVD88=4982.93 NGVD29 =4979.76
U401	SEE THE NGS DESCRIPTION ON PAGE IV	NAVD88=4994.98 NGVD29 =4991.82
U402	SEE THE NGS DESCRIPTION ON PAGE X	NAVD88=4948.15 NGVD29 =4944.98
V401	SEE THE NGS DESCRIPTION ON PAGE V	NAVD88=4977.81 NGVD29 =4974.64
W402	(DESTROYED) SEE THE NGS DESCRIPTION ON PAGE XI	

Y401	SEE THE NGS DESCRIPTION ON PAGE VII	NAVD88=4971.96 NGVD29 =4968.75
Y402	SEE THE NGS DESCRIPTION ON PAGE VI	NAVD88=5018.96 NGVD29 =5015.76
Z401	SEE THE NGS DESCRIPTION ON PAGE I	NAVD88=4962.74 NGVD29 =4959.57

Z 401

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 41 = SET IN A LARGE STRUCTURE WITH FOUNDATIONS ON BEDROCK

STAMPING: Z 401 1984

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF EAST VINE DRIVE AND LINDEN STREET,

IN THE SOUTH EDGE OF A HIGHLINE TOWER FOOTING, 14.2 METERS (46.6 FT)

NORTH OF THE CENTERLINE OF EAST VINE DRIVE, 10.3 METERS (33.8 FT) WEST

OF THE EXTENDED CENTERLINE OF LINDEN STREET, AND 0.3 METER (1.0 FT)

NORTH OF THE SOUTH EDGE OF THE FOOTING. NOTE--THE FOOTING IS

96-INCHES IN DIAMETER, 33 FEET DEEP AND SET INTO 11 FEET OF BEDROCK.

THE MARK IS 0.6 M ABOVE THE DRIVE.

B 402

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 41 = SET IN A LARGE STRUCTURE WITH FOUNDATIONS ON BEDROCK

STAMPING: B 402 1984

STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

STABILITY: POSITION/ELEVATION WELL

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF SAN CRISTO STREET AND 9TH STREET,

IN THE NORTH EDGE OF THE CONCRETE FOOTING FOR HIGHLINE TOWER NUMBER

34, 19.1 METERS (62.7 FT) SOUTH OF THE EXTENDED CENTER OF THE STREET,

16.6 METERS (54.5 FT) WEST OF THE CENTERLINE OF 9TH STREET, 8.8 METERS

(28.9 FT) SOUTH OF THE CENTER OF A GRAVELED PRIVATE DRIVE LEADING

WEST, 0.5 METER (1.6 FT) SOUTH OF A FENCE, AND 0.3 METER (1.0 FT)

SOUTH OF THE NORTH EDGE OF THE FOOTING. NOTE--THE FOOTING IS

120-INCHES IN DIAMETER, 28-1/2 FEET DEEP AND SET INTO 12 FEET OF
BEDROCK.

THE MARK IS ABOVE LEVEL WITH 9TH STREET.

R 402

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 41 = SET IN A LARGE STRUCTURE WITH FOUNDATIONS ON BEDROCK

STAMPING: R 402 1984

STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

STABILITY: POSITION/ELEVATION WELL

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF 9TH STREET AND LINCOLN AVENUE, IN THE EAST EDGE OF THE CONCRETE FOOTING FOR HIGHLINE TOWER NUMBER 29, 47.8 METERS (156.8 FT) NORTH OF THE CENTERLINE OF THE AVENUE, 22.3 METERS (73.2 FT) WEST OF THE CENTERLINE OF THE STREET, AND 0.2 METER (0.7 FT) WEST OF THE EAST EDGE OF THE FOOTING. NOTE--THE FOOTING IS 96-INCHES IN DIAMETER, 26-1/2 FEET DEEP AND SET INTO 9 FEET OF BEDROCK

G 401

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 15 = (FASTENED TO) A METAL ROD DRIVEN INTO GROUND

STAMPING: G 401 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 1.5 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

5.6 KM (3.5 MI) NORTH FROM FORT COLLINS.

2.6 KM (1.6 MI) NORTH ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, THENCE 3.0 KM (1.85 MI) NORTHERLY ALONG STATE HIGHWAY 1, 42.7 METERS (140.1 FT) NORTH OF THE CENTER OF COUNTY ROAD 54 (DOUGLAS ROAD), 21.4 METERS (70.2 FT) NORTH OF BENCH MARK C 358, 13.7 METERS (44.9 FT) WEST OF THE CENTERLINE OF THE HIGHWAY, 1.0 METER (3.3 FT) NORTH OF UTILITY POLE NUMBER 2E-1. NOTE--REFUSAL WAS REACHED AT 5.0 FT.

F 136

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

STAMPING: F 136 1934

PROJECTION: PROJECTING 10 CENTIMETERS

STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO +STABILITY: SURFACE MOTION

HISTORY - 1934 MONUMENTED CGS

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1954

1.7 MI SE FROM FORT COLLINS.

1.7 MILES SOUTHEAST ALONG THE COLORADO AND SOUTHERN RAILROAD FROM THE STATION AT FORT COLLINS, 180 FEET WEST OF MILEPOST 76, 94 FEET SOUTH OF A ROAD CROSSING, 44.4 FEET SOUTHWEST OF THE SOUTHWEST RAIL, 51.5 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE UNION PACIFIC RAILROAD, 2 FEET NORTHWEST OF A WITNESS POST, SET IN THE TOP OF A CONCRETE POST WHICH PROJECTS 0.1 FOOT ABOVE THE GROUND.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

NEW DESC: 2.7 KM (1.7 MI) SOUTHEAST ALONG THE COLORADO AND SOUTHERN RAILROAD FROM THE STATION AT FORT COLLINS AND 0.1 KM (0.05 MI) WEST FROM MILEPOST 76. IT IS 20.4 M (67 FT) NORTH OF THE NORTH CURB OF RIVERSIDE AVE, 14.9 M (49 FT) NORTH FROM THE CENTER OF THE UNION PACIFIC TRACKS AND 14.3 M (47 FT) SOUTH FROM THE CENTER OF THE COLORADO AND SOUTHERN RAILROAD TRACKS. IT IS IN THE NORTHEAST SIDE OF THE INTERSECTION OF RIVERSIDE AVE. AND LEMAY AVE. POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS S FROM A WITNESS POST.

THE MARK IS 0.3 M BELOW THE HIGHWAY.

C 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: C 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 8.3 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF AIRWAY AVENUE AND LINCOLN AVENUE, 46.0 METERS (150.9 FT) WEST OF THE CENTER OF AIRWAY AVENUE, 9.3 METERS (30.5 FT) SOUTH OF THE CENTER OF LINCOLN AVENUE, 4.2 METERS (13.8 FT) SOUTHWEST OF THE SOUTH END OF A CONCRETE CULVERT, AND 1.1 METERS (3.6 FT) NORTHWEST OF A UTILITY POLE. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS E FROM A WITNESS POST.

THE MARK IS 0.6 M ABOVE THE AVENUE.

D 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: D 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 14.2 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF STATE HIGHWAY 14 AND 9TH STREET(SUMMIT VIEW DR.) ,121.3 METERS (398.0 FT) SOUTH OF THE CENTERLINE OF THE EAST BOUND LANES OF HIGHWAY 14, 11.0 METERS (36.1 FT) EAST OF THE CENTERLINE OF 9TH STREET(SUMMIT VIEW DR.), AND 1.3 METERS (4.3 FT) NORTH OF UTILITY POLE NUMBER 530 WITH TWO GUY WIRES. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS S FROM A WITNESS POST.

THE MARK IS ABOVE LEVEL WITH THE STREET.

U 401

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: U 401 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 6.7 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

2.6 KM (1.6 MI) NORTH FROM FORT COLLINS.

2.6 KM (1.6 MI) NORTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, 40.3 METERS (132.2 FT) EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, 14.2 METERS (46.6 FT) SOUTH OF THE CENTERLINE OF STATE HIGHWAY 1, 10.6 METERS (34.8 FT) WEST OF THE CENTER OF A PAVED ROAD LEADING SOUTH, 9.0 METERS (29.5 FT) SOUTH OF THE SOUTHEAST CORNER OF A BRIDGE, AND 1.2 METERS (3.9 FT) EAST OF A UTILITY POLE WITH TWO GUY WIRES. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS N FROM A WITNESS POST.

THE MARK IS 1.0 M BELOW STATE HIGHWAY 1.

V 401

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: V 401 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 6.7 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984
IN FORT COLLINS.

IN FORT COLLINS, AT THE JUNCTION OF U.S. HIGHWAY 287 AND BRISTLECONE DRIVE, 59.4 METERS (194.9 FT) EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, 14.7 METERS (48.2 FT) NORTH OF THE CENTER OF THE DRIVE, AND 1.1 METERS (3.6 FT) NORTH OF A UTILITY POLE AND POWERLINE CROSSING THE DRIVE, NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS S FROM A WITNESS POST.

THE MARK IS ABOVE LEVEL WITH THE DRIVE.

E 322 RESET

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

STAMPING: E 322 RESET 1971

STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO SURFACE MOTION

HISTORY - 1971 MONUMENTED CODH

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY COLORADO STATE DEPARTMENT OF HIGHWAYS 1971
MI S FROM FORT COLLINS.

2.4 MILES SOUTH ALONG U.S. HIGHWAY 287 FROM THE SOUTH MAIN STREET ENTRANCE TO COLORADO STATE UNIVERSITY AT FORT COLLINS, 44 FEET WEST OF THE CENTER LINE OF THE HIGHWAY AND SET IN THE TOP OF THE CURB OF BRIDGE B 16 E AND AT THE SOUTHWEST END OF THE BRIDGE.
STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. 5.9 KM (3.65 MI) SOUTH ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, IN THE SOUTH END OF THE WEST CONCRETE HEADWALL OF AN 8- BY 24-FOOT BOX CULVERT, 51.0 METERS (167.3 FT) SOUTH OF THE CENTERLINE OF THE EAST BOUND LANES OF HORSETOOTH ROAD, AND 5.7 METERS (18.7 FT) WEST OF THE CENTERLINE OF THE SOUTH BOUND LANES OF THE HIGHWAY.

THE MARK IS ABOVE LEVEL WITH THE HIGHWAY.

Y 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: Y 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 4.3 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

7.8 KM (4.85 MI) SOUTH FROM FORT COLLINS.

7.8 KM (4.85 MI) SOUTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, 71.9 METERS (235.9 FT) SOUTH OF THE CENTER OF PALMER DRIVE, 32.0 METERS (105.0 FT) EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE U.S. HIGHWAY, 12.6 METERS (41.3 FT) EAST OF THE CENTER OF A PAVED ROAD, AND 0.3 METER (1.0 FT) WEST OF THE CENTER OF THE WEST END OF A 4- BY 4-FOOT BRICK SIGN.

NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP. THE MARK IS ABOVE LEVEL WITH THE HIGHWAY.

A 105

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 36 = SET IN A MASSIVE STRUCTURE

STAMPING: A 105 1935

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

HISTORY - 1935 MONUMENTED CGS

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1952

AT FORT COLLINS.

AT FORT COLLINS, AT COLORADO A. AND M. COLLEGE, 43 FEET NORTH OF THE SOUTHEAST CORNER OF THE FIELD HOUSE, 19 FEET SOUTH OF THE CENTER OF THE EAST ENTRANCE, 3 FEET ABOVE THE SIDEWALK, SET VERTICALLY IN THE EAST WALL OF THE FIELD HOUSE.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. DELETE AT COLORADO A AND M COLLEGE. ADD AT COLORADO STATE UNIVERSITY CAMPUS.

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

ADDITIONS TO THE 1952 DESC: IT IS 52.7 M (173 FT) NORTH FROM THE PROJECTED CENTERLINE OF ELIZABETH STREET AND 3.1 M (102 FT) WEST FROM THE WESTERN CURB OF COLLEGE AVE.

Y 401

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 66 = SET IN ROCK OUTCROP

STAMPING: Y 401 1984

STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

+STABILITY: POSITION/ELEVATION WELL

SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

SATELLITE: SATELLITE OBSERVATIONS - February 21, 1997

HISTORY - 1984 MONUMENTED NGS

HISTORY - 19970221 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

8.8 KM (5.45 MI) SOUTH FROM FORT COLLINS.

8.8 KM (5.45 MI) SOUTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, NEAR THE CENTER OF THE SOUTHERN 1/4 OF A 10- BY 68-FOOT EXPOSED AREA OF OUT CROPPING BEDROCK, 23.8 METERS (78.1 FT) NORTH OF THE CENTER OF A GATE AND DIRT ROAD LEADING EAST, 21.0 METERS (68.9 FT) EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, AND 3.5 METERS (11.5 FT) WEST OF A FENCE. THE MARK IS 0.3 METERS N FROM A WITNESS POST.

THE MARK IS 1.9 M ABOVE THE HIGHWAY.

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1996 (RSC)

RECOVERED AS DESCRIBED.

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1996 (RSC)

THE STATION IS LOCATED ABOUT 5 MI (8.0 KM) SOUTH OF FORT COLLINS, 2.5 MI (4.0 KM) NORTH OF LOVELAND AND 1.5 MI (2.4 KM) SOUTHWEST OF WARREN LAKE, AT U. S. HIGHWAY 287 MILEPOST 341.35, IN THE SOUTHWEST 1/4 OF SECTION 1, T 6 N, R 69 W. OWNERSHIP--COLORADO DEPT. OF TRANSPORTATION RIGHT-OF-WAY TO REACH THE STATION FROM THE INTERSECTION OF U. S. HIGHWAY 287 AND STATE HIGHWAY 14 IN FORT COLLINS, GO SOUTH ON U. S. HIGHWAY 287 FOR 5.45 MI (8.77 KM) TO THE STATION ON THE LEFT THE STATION IS A STANDARD DISK SET IN A DRILL HOLE NEAR THE CENTER OF THE SOUTHERN 1/4 OF A 10- BY 68-FOOT EXPOSED SANDSTONE OUTCROP. IT IS 78.1 FT (23.8 M) NORTH OF THE CENTER OF A GATE AND DIRT ROAD LEADING EAST, 68.9 FT (21.0 M) EAST OF THE CENTER LINE OF THE NORTH BOUND LANES OF THE HIGHWAY, 11.5 FT (3.5 M) WEST OF THE EASTERN RIGHT-OF-WAY FENCE, 1.0 FT (0.3 M) NORTH OF A WITNESS POST AND ABOUT 10 FT (3.0 M) ABOVE THE HIGHWAY.

C 322 RESET

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

STAMPING: C 322 RESET 1959

STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO SURFACE MOTION

HISTORY - 1959 MONUMENTED CODH

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY COLORADO STATE DEPARTMENT OF HIGHWAYS 1959
0.8 MI S FROM FORT COLLINS.

THE MARK IS LOCATED 0.75 MILE SOUTH ALONG U. S. HIGHWAYS 87 AND 287 FROM THE SOUTH MAIN ENTRANCE TO COLORADO STATE UNIVERSITY AT FT. COLLINS, 47 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SET IN THE EAST END OF THE NORTHWEST PARAPET WALL OF A CONCRETE BRIDGE.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. 3.2 KM (2.0 MI) SOUTH ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, IN THE SOUTHEAST END OF THE NORTHWEST CONCRETE WINGWALL OF BRIDGE NUMBER B 16 H OVER SPRING CREEK, AND 8.0 METERS (26.2 FT) WEST OF THE CENTERLINE OF THE SOUTH BOUND LANES OF THE HIGHWAY.

THE MARK IS ABOVE LEVEL WITH THE HIGHWAY.

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

ADDITION TO THE 1959 DESC: IT IS IN THE BRIDGE OVER SPRING CREEK WITH IN THE HIGHWAY DESIGNATION OF--B 16 H--. IT IS 40.0 M (131 FT) NORTH FROM JOHNSON DRIVE AND 1.3 M (4.3 FT) WEST OF THE WESTERLY CURB OF COLLEGE AVE.

C 409

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: C 409 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 13.4 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF DRAKE DRIVE AND THE COLORADO AND SOUTHERN RAILROAD, 26.1 METERS (85.6 FT) EAST OF THE NEAR RAIL, 16.1 METERS (52.8 FT) NORTH OF THE CENTERLINE OF THE EAST BOUND LANES OF THE HIGHWAY, 6.2 METERS (20.3 FT) EAST OF A FENCE, AND 1.4 METERS (4.6 FT) NORTH-NORTHEAST OF A UTILITY POLE WITH THREE GUY WIRES.

NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP

THE MARK IS 0.3 METERS S FROM A WITNESS POST.

THE MARK IS ABOVE LEVEL WITH THE DRIVE.

D 322 RESET

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

STAMPING: D 322 RESET 1971

STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO SURFACE MOTION

HISTORY - 1971 MONUMENTED CODH

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY COLORADO STATE DEPARTMENT OF HIGHWAYS 1971
2.1 MI S FROM FORT COLLINS.

2.1 MILES SOUTH ALONG U.S. HIGHWAYS 287 FROM THE SOUTH MAIN ENTRANCE TO COLORADO STATE UNIVERSITY AT FORT COLLINS, 56 FEET EAST OF THE CENTER LINE OF THE HIGHWAY, SET IN THE TOP OF THE BRIDGE CURB ON THE EAST SIDE OF THE BRIDGE (B 16 G) AND 4 FEET SOUTH OF THE NORTH ABUTMENT.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. 5.4 KM (3.35 MI) SOUTH ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, IN THE NORTH END OF THE EAST CONCRETE HEADWALL OF AN 8- BY 24-FOOT BOX CULVERT, 6.1 METERS (20.0 FT) EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, AND 1.7 METERS (5.6 FT) SOUTH OF THE NORTH END OF THE HEADWALL.

THE MARK IS ABOVE LEVEL WITH THE HIGHWAY.

COLORADO COLLEGE

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

STAMPING: COLORADO COLLEGE 1934

STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO SURFACE MOTION

HISTORY - 1934 MONUMENTED CGS

HISTORY - 1954 GOOD NGS

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1934

IN THE TOWN OF FT. COLLINS, AT THE COLORADO STATE AGRICULTURAL COLLEGE, DIRECTLY IN FRONT OF THE CIVIL ENGINEERING BUILDING, AT THE JUNCTION OF THE CIVIL ENGINEERING SIDEWALK WITH DRIVEWAY SIDEWALK AND FLUSH WITH SIDEWALKS.

STATION RECOVERY (1954)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1954

RECOVERED IN GOOD CONDITION.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. DELETE AT THE COLORADO STATE AGRICULTURAL COLLEGE, DIRECTLY IN FRONT OF THE CIVIL ENGINEERING BUILDING. ADD AT THE COLORADO STATE UNIVERSITY CAMPUS, 11.8 METERS (38.7 FT) EAST OF THE CENTER OF THE EAST ENTRANCE TO THE STATISTICS BUILDING (851 OVAL DRIVE).

E 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: E 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 9.7 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

5.8 KM (3.6 MI) SE FROM FORT COLLINS.

4.8 KM (3.0 MI) SOUTHEASTERLY ALONG STATE HIGHWAY 14 FROM ITS JUNCTION WITH U.S. HIGHWAY 287 IN FORT COLLINS, THENCE 1.0 KM (0.6 MI)

SOUTHEASTERLY ALONG 9TH STREET(SUMMIT VIEW DR.), 36.1 METERS (118.4 FT)

NORTHWEST OF A PRIVATE DRIVE, 14.3 METERS (46.9 FT) SOUTHWEST OF THE

CENTERLINE OF 9TH STREET(SUMMIT VIEW DR.), 9.2 METERS (30.2 FT) SOUTHEAST OF A FENCE CORNER, AND 1.1 METERS (3.6 FT) SOUTHEAST OF UTILITY POLE NUMBER 1001 WITH A GUY WIRE. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS NE FROM A WITNESS POST AND FENCE

THE MARK IS 0.3 M BELOW THE STREET.

U 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: U 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 8.0 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF EAST PROSPECT STREET AND YOUNT STREET, 40.7 METERS (133.5 FT) WEST OF THE CENTER OF YOUNT STREET,

19.8 METERS (65.0 FT) EAST OF THE CENTER OF A PRIVATE DRIVE,

12.7 METERS (41.7 FT) NORTH OF THE CENTERLINE OF THE WEST BOUND LANES

OF EAST PROSPECT STREET, 9.9 METERS (32.5 FT) NORTHEAST OF A UTILITY

POLE, AND 1.8 METERS (5.9 FT) EAST OF A FENCE CORNER. NOTE--ACCESS TO

THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 M ABOVE THE STREET.

W 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: W 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 3.7 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

6.9 KM (4.3 MI) SE FROM FORT COLLINS.

2.7 KM (1.7 MI) SOUTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, THENCE 4.2 KM (2.6 MI) EASTERLY ALONG PROSPECT STREET, 85.3 METERS (279.9 FT) WEST OF THE CENTER OF A PRIVATE DRIVE LEADING SOUTH, 76.2 METERS (250.0 FT) EAST OF THE CENTER OF A GRAVELED ROAD LEADING SOUTH, AND 16.0 METERS (52.5 FT) SOUTH OF THE CENTERLINE OF THE STREET. NOTE--THE STREET IS TO BE WIDENED IN THE NEAR FUTURE. ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 2.0 METERS S FROM A WITNESS POST AND FENCE

THE MARK IS 1.3 M BELOW THE STREET.

B 409 RESET

VERT ORDER - THIRD (See Below)

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: B 409 RESET 1991

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 20.5 meters

HISTORY - 1991 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1991

IN FORT COLLINS, AT THE COLORADO STATE UNIVERSITY CAMPUS, 63.7 M (208.99 FT) WEST OF MASON STREET, 39.9 M (130.91 FT) EAST OF EAST DRIVE, 32.8 M (107.61 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF NATIONAL SEED STORAGE LABORATORY, 25.1 M (82.35 FT) NORTHWEST OF THE NORTHWEST CORNER OF THE RADIOLOGICAL SCIENCE BUILDING, 18.8 M (61.68 FT) NORTHEAST OF THE NORTHEAST CORNER OF THE WOOD SCIENCES LABORATORY, 10.1 M (33.14 FT) SOUTH OF A-STREET AND THE SAME HEIGHT AS THE ROAD.

D 409

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: D 409 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 6.1 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

8.2 KM (5.1 MI) NORTH FROM LOVELAND.

8.2 KM (5.1 MI) NORTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION

WITH U.S. HIGHWAY 34 IN LOVELAND, 38.9 METERS (127.6 FT) EAST OF THE

CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, 9.5 METERS

(31.2 FT) NORTH OF THE CENTER OF ROAD 32, AND 1.4 METERS (4.6 FT)

SOUTH OF UTILITY POLE NUMBER 144-1. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS S FROM A WITNESS POST.

THE MARK IS 0.3 M BELOW THE ROAD.

T 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: T 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 8.0 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF EAST PROSPECT STREET AND STOVER

STREET, 38.7 METERS (127.0 FT) EAST OF THE CENTERLINE OF STOVER

STREET, 22.8 METERS (74.8 FT) SOUTH OF THE CENTERLINE OF THE EAST

BOUND LANES OF EAST PROSPECT STREET, 15.2 METERS (49.9 FT) EAST OF THE

NORTHWEST CORNER OF BARTON SCHOOL AND A FENCE, AND 2.1 METERS (6.9 FT)

EAST OF THE CENTER OF THE MOST WESTERLY ENTRANCE TO BARTON SCHOOL.

NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS ABOVE LEVEL WITH PROSPECT STREET

.S 402

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: S 402 1984

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 7.3 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN FORT COLLINS, AT THE JUNCTION OF WEST PROSPECT STREET AND THE COLORADO AND SOUTHERN RAILROAD, 85.3 METERS (279.9 FT) NORTH OF THE CENTERLINE OF THE WEST BOUND LANES OF THE STREET, 32.6 METERS (107.0 FT) NORTH OF THE CENTER OF A PRIVATE DRIVE, 9.9 METERS (32.5 FT) WEST OF THE NEAR RAIL, AND 0.7 METER (2.3 FT) SOUTH OF A UTILITY POLE. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS N FROM A WITNESS POST.

THE MARK IS 1.3 M BELOW THE STREET.

E 136

VERT ORDER - FIRST CLASS II

MARKER: DB = BENCH MARK DISK

SETTING: 40 = SET IN A LARGE STRUCTURE WITH DEEP FOUNDATIONS

STAMPING: E 136 1934

STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

POSITION/ELEVATION WELL

HISTORY - 1934 MONUMENTED CGS

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1934

IN THE TOWN OF FT. COLLINS, IN THE EAST FACE OF THE NORTHEAST CORNER OF THE U.S. POST OFFICE BUILDING, BRONZE TABLET SET VERTICALLY 3 FEET ABOVE THE GROUND.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. IN FORT COLLINS, SET VERTICALLY IN THE EAST FACE OF THE NORTHEAST CORNER OF THE POST PLAZA BUILDING (OLD POST OFFICE), AT 201 SOUTH COLLEGE STREET, AND 0.5 METER (1.6 FT) SOUTH OF THE NORTHEAST CORNER OF THE BUILDING.

THE MARK IS 2.8 M ABOVE THE SIDEWALK.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

ADDITIONS AND CORRECTIONS: IT IS AT THE SOUTHWEST CORNER OF THE INTERSECTION OF OAK STREET AND COLLEGE AVE. IN THE OLD POST OFFICE BUILDING. IT IS NOW 2.4 M (8 FT) ABOVE GROUND LEVEL.

F 3

VERT ORDER - FIRST CLASS II

MARKER: DD = SURVEY DISK

SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT (ROUND)

PROJECTION: FLUSH

STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO SURFACE MOTION

HISTORY - UNK MONUMENTED COGS

HISTORY - 1984 GOOD NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1934

IN FT. COLLINS, LARIMER COUNTY, COLORADO, ON NORTH EDGE OF THE CAMPUS OF COLORADO AGRICULTURAL COLLEGE, ON LAUREL ST., 180 FEET WEST OF CENTERLINE OF HOWES STREET (AND NORTH ENTRANCE TO CAMPUS), 33 FEET SOUTH OF CENTERLINE OF LAUREL ST., 3 FEET SOUTH OF SOUTH CURB LINE, TABLET IN CONCRETE POST, FLUSH WITH SURFACE OF GROUND.

STATION RECOVERY (1984)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984

RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. IN FORT COLLINS, AT THE INTERSECTION OF HOWE AND LAUREL STREETS, 54.9 METERS (180.1 FT) WEST OF THE CENTERLINE OF HOWE STREET, 10.1 METERS (33.1 FT) SOUTH OF THE CENTERLINE OF LAUREL STREET, 2.1 METERS (6.9 FT) NORTH OF THE NORTH EDGE OF A SIDEWALK, 2.0 METERS (6.6 FT) EAST OF THE CENTER OF A 36-INCH ELM TREE, AND 1.1 METERS (3.6 FT) SOUTH OF THE SOUTH CURB OF LAUREL STREET. NOTE--THE DISK IS UNSTAMPED. THE MARK IS ABOVE LEVEL WITH LAUREL STREET.

BUD

MARKER: I = METAL ROD

SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

STAMPING: BUD 1992

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

SATELLITE: SATELLITE OBSERVATIONS - 1992

ROD/PIPE-DEPTH: 7.9 meters

SLEEVE-DEPTH : 0.9 meters

HISTORY - 1992 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1992 (RSC)

THE STATION IS LOCATED ABOUT 5 MI (8.0 KM) NORTHEAST OF FORT COLLINS, MI (4.8 KM) WEST OF THE LARIMER-WELD COUNTY LINE AND 0.1 MI (0.2 KM) NORTHEAST OF THE BUDWEISER PLANT, IN THE NORTHEAST 1/4 OF SECTION 33, T 8 N, R 68 W, AT INTERSTATE 25 MILEPOST 272.25. OWNERSHIP--COLORADO DEPT. OF TRANSPORTATION RIGHT-OF-WAY TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 25 AND MOUNTAIN VISTA DRIVE, EXIT 271, GO WEST ON MOUNTAIN VISTA DRIVE FOR 0.1 MI (0.2 KM) TO THE INTERSECTION OF BUSCH DRIVE. TURN RIGHT, NORTH, FOR 0.9 MI (1.4 KM) TO THE STATION ON THE RIGHT, BETWEEN INTERSTATE 25 AND BUSCH DRIVE THE STATION IS A PUNCH HOLE TOP CENTER IN A STEEL ROD IN A GREASED SLEEVE ENCASED IN A PVC PIPE WITH A LOGO CAP SET IN A CONCRETE POST FLUSH WITH THE GROUND. IT IS 228.3 FT (69.6 M) NORTH OF THE EXTENDED CENTER OF THE ENTRANCE TO THE BUDWEISER VISITORS CENTER, 71.8 FT (21.9 M) EAST-NORTHEAST OF THE CENTER LINE OF BUSCH DRIVE, 69.2 FT (21.1 M) WEST OF THE CENTER LINE OF THE SOUTHBOUND LANES OF INTERSTATE 25, 3.4 FT (1.0 M) EAST-SOUTHEAST OF THE END OF A RIGHT-OF-WAY FENCE, 2.2 FT (0.7 M) NORTH OF A WITNESS POST AND ABOUT 3 FT (0.9 M) BELOW THE SOUTHBOUND LANES OF INTERSTATE 25 AND ON THE NORTHEAST SIDE OF THE BUDWEISER PLANT.

A 409

VERT ORDER - FIRST CLASS II

MARKER: I = METAL ROD

SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

STAMPING: A 409

PROJECTION: FLUSH

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ROD/PIPE-DEPTH: 4.6 meters

HISTORY - 1984 MONUMENTED NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

9.5 KM (5.9 MI) NORTH FROM LOVELAND.

9.5 KM (5.9 MI) NORTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH U.S. HIGHWAY 34 IN LOVELAND OR 10.9 KM (6.75 MI) SOUTHERLY ALONG U.S. HIGHWAY 287 FROM ITS JUNCTION WITH STATE HIGHWAY 14 IN FORT COLLINS, 13.3 METERS (43.6 FT) EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, 4.0 METERS (13.1 FT) EAST OF A FENCE CORNER, AND 3.8 METERS (12.5 FT) NORTH OF THE CENTER OF A PRIVATE DRIVE LEADING EAST. NOTE--MARK IS ON PROPERTY OWNED BY MR. PITNER. ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

THE MARK IS 0.3 METERS N FROM A WITNESS POST.

THE MARK IS 0.6 M ABOVE THE HIGHWAY.