

# ORANGE COUNTY SURVEYOR SURVEY NOTES

WORK ORDER NUMBER : EF21268 & EV21268

SURVEY FILE NUMBER :

SURVEY COMPLETED : September 19, 2014

ALIGNMENT INDEX BOOK & PAGE

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PROJECT NAME : San Diego Creek Channel (F05)

SURVEY LIMITS : Between I-405 Freeway and 4000' S'ly of Michelson Dr. (Sta. 100+00 to 156+00)

THOMAS BROTHERS : PG. 860- A6 and A7; PG. 859 J7 (2008 Edition)

PURPOSE OF SURVEY : Collect cross-section topography of channel from Sta. 100+00 - 156+00 for annual Scours Study.  
Sta. 100+00 - 135+00 (EV21268) & Sta. 136+00 - 156+00 (EF21268) Per Survey Request

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|                  |          |

## SURVEY EQUIPMENT :

|                                             |
|---------------------------------------------|
| Total Station: SOKKIA NET 1AX               |
| GPS Receivers: SOKKIA GRX1 and TRIMBLE R-10 |
|                                             |
|                                             |
|                                             |
|                                             |

## HORIZONTAL DATUM :

NAD83 1990 OCS adjustment

## VERTICAL DATUM :

NGVD29 1995 adjustment

## HORIZONTAL CONTROL POINTS :

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| #513 - #523 (Foster's 2012 Control) | #513 - #523 (Foster's 2012 Control) |
|                                     |                                     |
|                                     |                                     |

## VERTICAL CONTROL POINTS :

## REFERENCES / REMARKS :

|                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|
| - Ian Foster's Control from 2012 Scours Study was held in this survey for continuity using a localization from Klingenberg's survey |
|                                                                                                                                     |
|                                                                                                                                     |

## PERSONNEL :

|                       |                          |
|-----------------------|--------------------------|
| PC: M.LaFontaine      | PC: M.Krepp              |
| Instr. Man: E. Medina | Instr. Man: G. Fukumitsu |
| Rod Man: B. Murray    |                          |
|                       |                          |

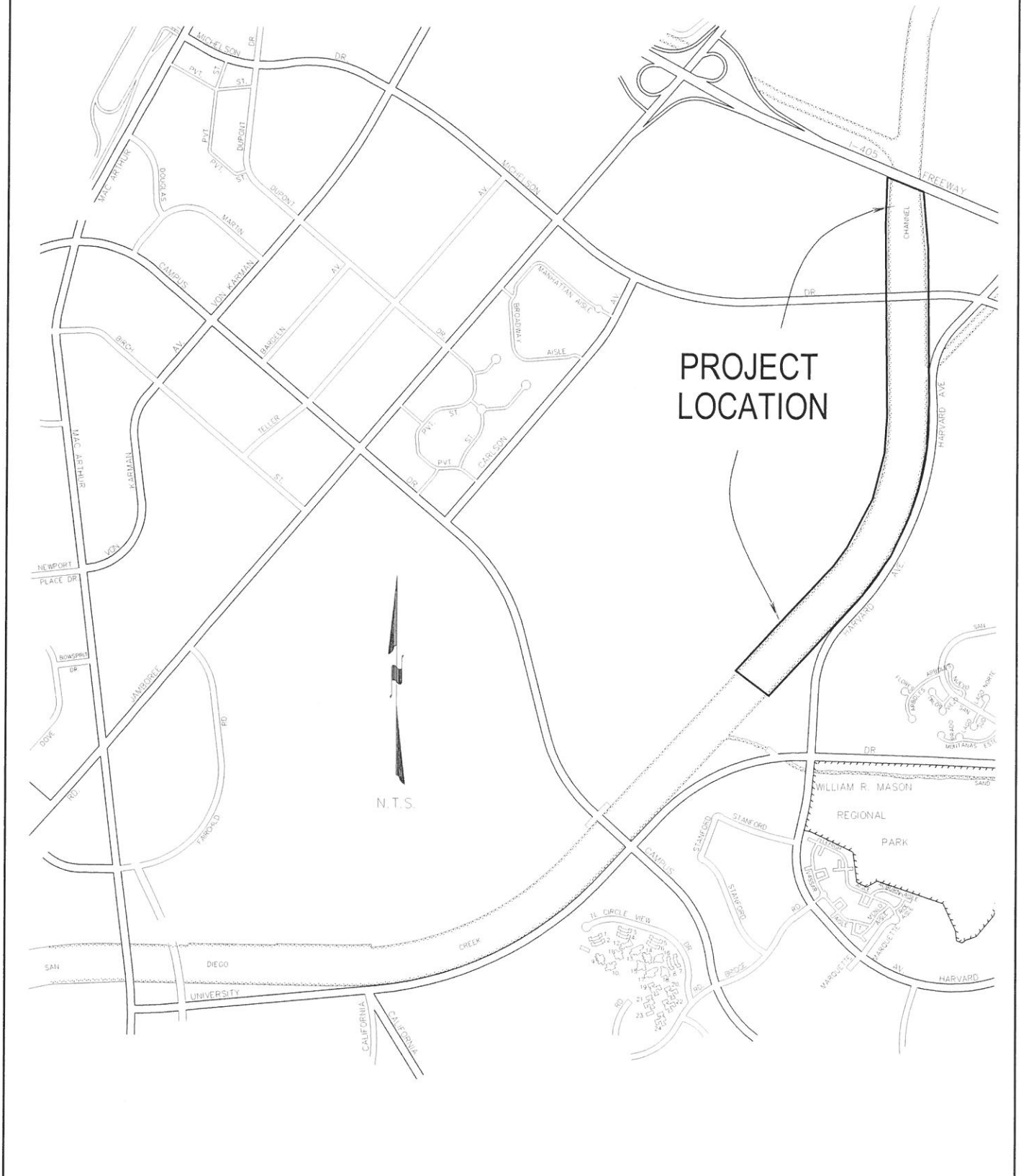
THIS SURVEY WAS PERFORMED  
UNDER MY DIRECTION

WADE WEAVER, LS 4337  
SENIOR LAND SURVEYOR



DATE

## VICINITY MAP



## SURVEYOR SUMMARY

THIS TOPOGRAPHIC SURVEY WAS COMPLETED USING GPS RTK RECEIVERS AND THE SOKKIA ROBOTIC TOTAL STATION. THE SCOUR STUDY IS AN ANNUAL PROJECT THAT REQUIRES CROSS-SECTIONS EVERY 100' BETWEEN SPECIFIED STATIONS. THIS YEAR, STATIONS 100+00 TO 156+00 WERE REQUIRED. THE PROJECT WAS CONTROLLED BY PREVIOUS SURVEYS FROM IAN FOSTER & PARTY IN 2012, AND BRITT KLINGENBERG IN 2009 (FILE #910PW-OP540011). A LOCALIZATION FILE WAS USED FROM KLINGENBERG'S CONTROL NETWORK (F05.LOC), IN CORRELATION WITH OCRN STATION "TRAK". THE #500 PT SERIES FROM FOSTER'S SURVEY WAS USED AS CHECKS WHILE SURVEYING WITH THE RTK ROVER. MONUMENT CONDITION IS NOTED ON SUBSEQUENT PAGES. TWO NEW CONTROL PT'S WERE SET (#524 & #525) FOR TOPOGRAPHIC PURPOSES. THESE POINTS WERE ESTABLISHED FROM A RESECTION OF #522, #523 OF FOSTER'S EXISTING SURVEY. THE NOTES SEEN HEREON ARE A REVISED COPY OF FOSTER'S NOTES TO REPRESENT CURRENT FIELD CONDITIONS.

### KLINGENBERG'S Localization Points

| PT# | NORTHING   | EASTING    | STATION X OFFSET          |
|-----|------------|------------|---------------------------|
| 13  | 2184255.11 | 6071909.92 | STA 32+00 X 180 RT        |
| 24  | 2184264.79 | 6073936.56 | STA 52+00 X 180 RT        |
| 34  | 2185150.96 | 6075813.77 | STA 72+00 X 180 RT        |
| 45  | 2186622.31 | 6077190.94 | STA 92+00 X 177 RT        |
| 55  | 2188089.47 | 6078549.79 | STA 112+00 X 177 RT       |
| 68  | 2190184.01 | 6079380.75 | STA 133+78.70 EC X 180 RT |

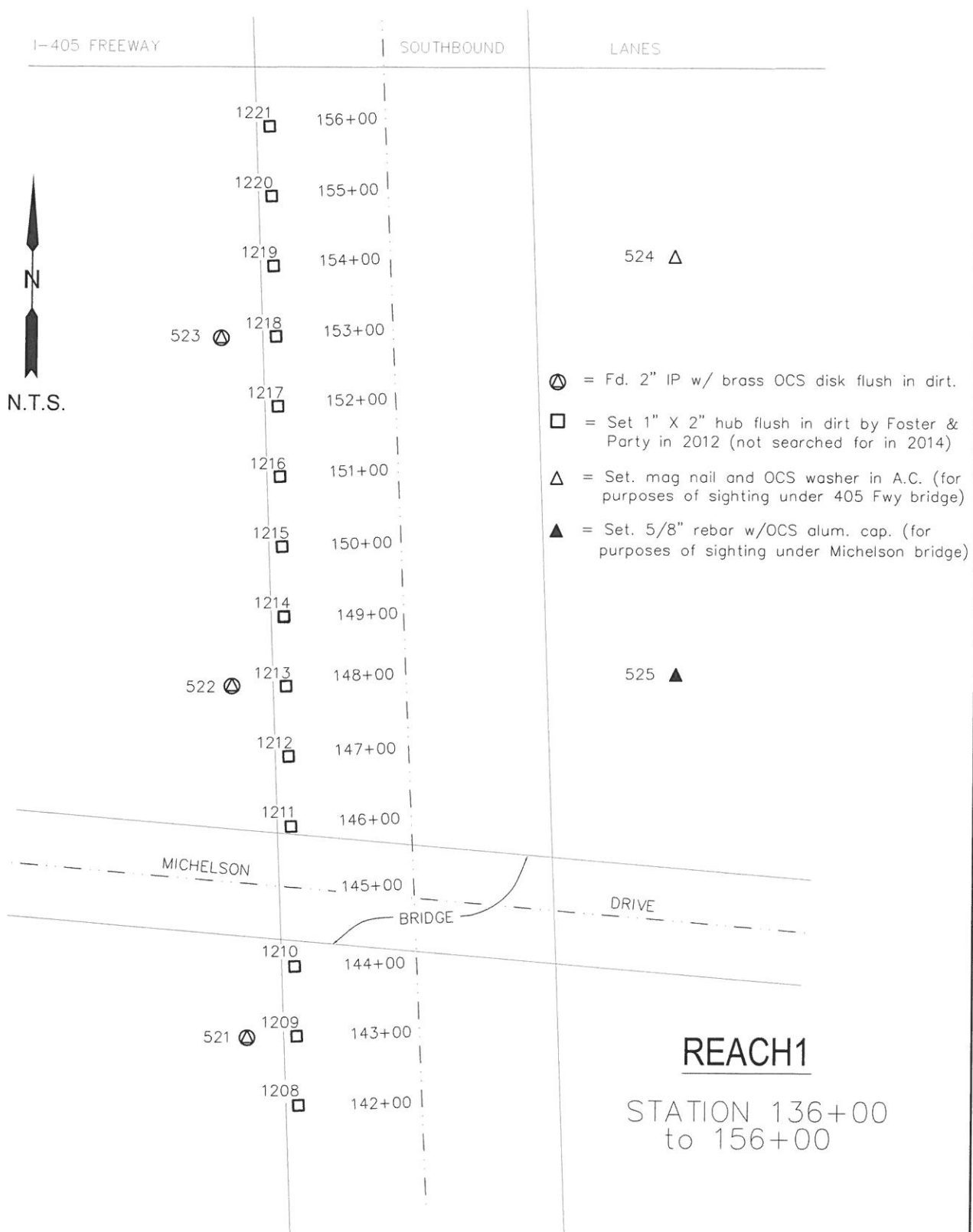
### Control Points Used

| PT# | NORTHING   | EASTING    | ELEV.               |
|-----|------------|------------|---------------------|
| 510 | 2186569.40 | 6076658.20 | 25.79               |
| 511 | 2186935.62 | 6076998.69 | 26.03               |
| 512 | 2187303.80 | 6077336.97 | 26.53               |
| 513 | 2187669.91 | 6077677.57 | 27.03               |
| 514 | 2188035.35 | 6078018.77 | 27.82               |
| 515 | 2188405.45 | 6078354.93 | 27.49               |
| 516 | 2188773.26 | 6078642.79 | 28.91               |
| 517 | 2189186.49 | 6078854.72 | 29.98               |
| 518 | 2189632.83 | 6078985.01 | 30.57               |
| 519 | 2190096.10 | 6079024.44 | 31.54               |
| 520 | 2190591.12 | 6079027.05 | 30.77               |
| 521 | 2191091.68 | 6079033.35 | 31.21               |
| 522 | 2191590.98 | 6079005.82 | 36.70               |
| 523 | 2192095.61 | 6079006.52 | 32.27               |
| 524 | 2192278.15 | 6079265.68 | 30.50 (NEW CONTROL) |
| 525 | 2191484.01 | 6079276.27 | 31.85 (NEW CONTROL) |

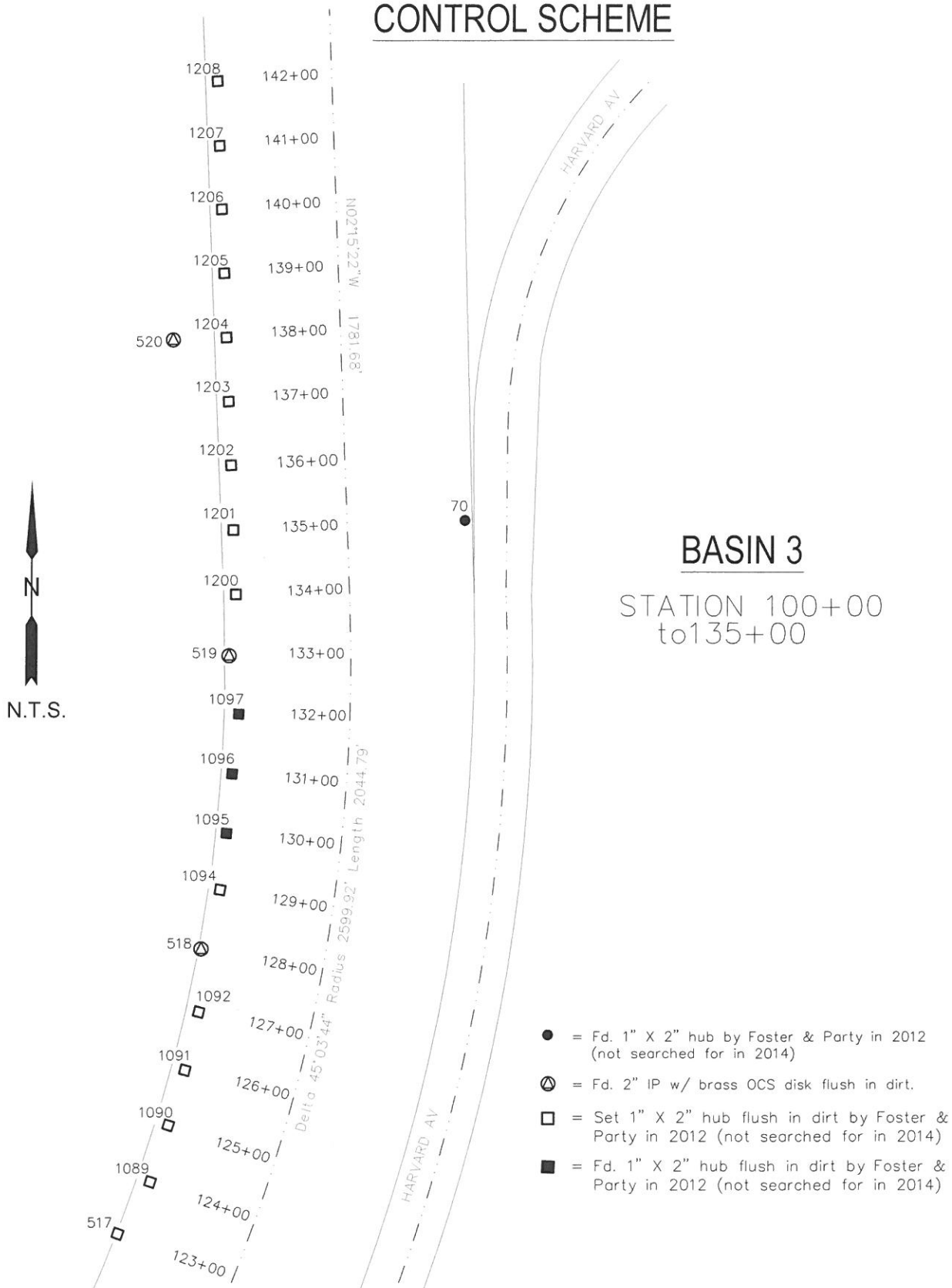
Horizontal Datum: NAD83 1990 OCS adjustment

Vertical Datum: NGVD29 1995 adjustment

## CONTROL SCHEME



## CONTROL SCHEME

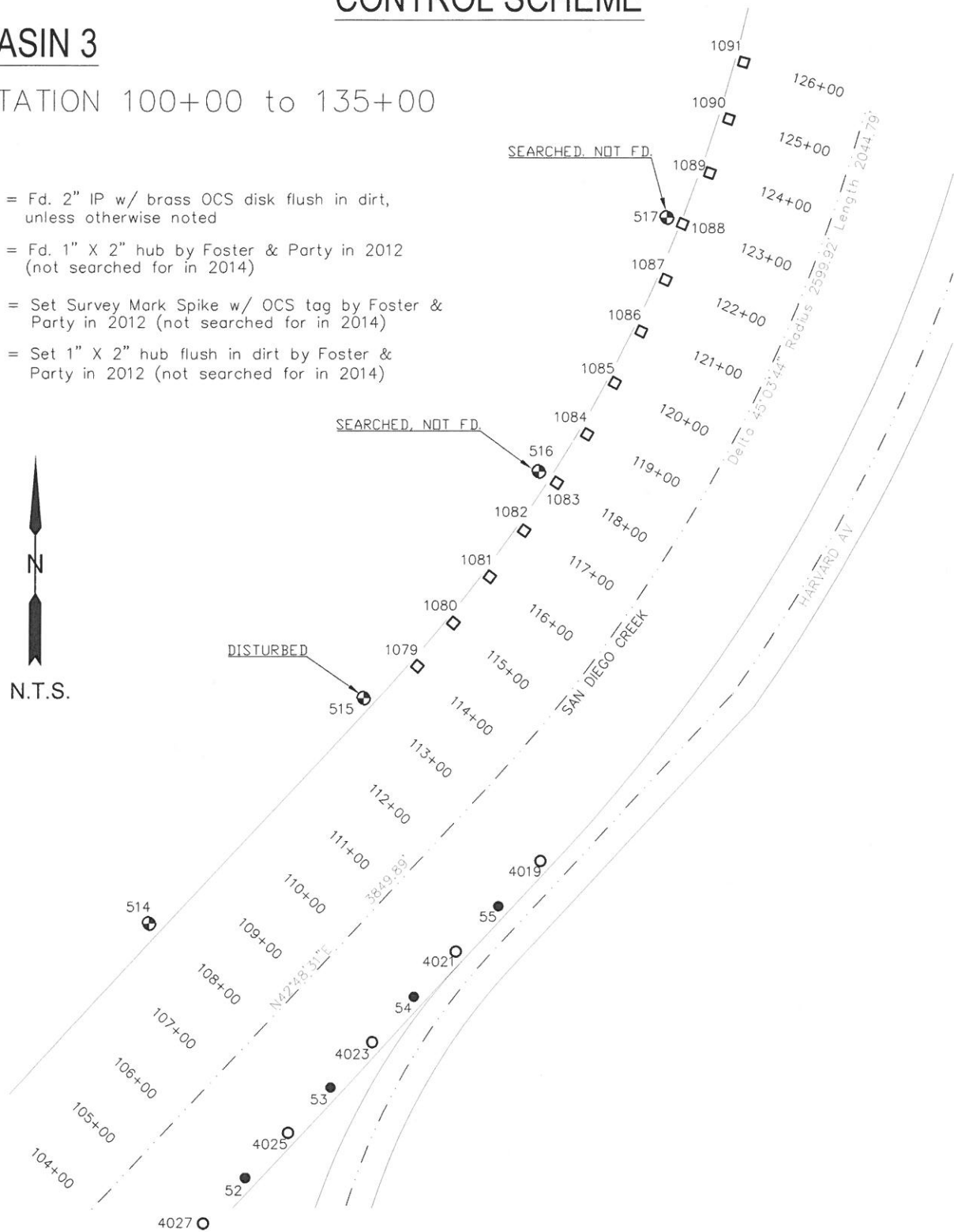


## CONTROL SCHEME

### BASIN 3

STATION 100+00 to 135+00

- ⊕ = Fd. 2" IP w/ brass OCS disk flush in dirt, unless otherwise noted
- = Fd. 1" X 2" hub by Foster & Party in 2012 (not searched for in 2014)
- = Set Survey Mark Spike w/ OCS tag by Foster & Party in 2012 (not searched for in 2014)
- = Set 1" X 2" hub flush in dirt by Foster & Party in 2012 (not searched for in 2014)



## CONTROL SCHEME



N.T.S.

### BASIN 3

STATION 100+00  
to 135+00

### BASIN 2

STATION 82+00  
to 99+00(NOT A PART OF THIS  
SURVEY)