

# CITY OF LAKE ELSINORE

## THIRD STREET STORM DRAIN



| STORM DRAIN CONSTRUCTION ITEMS  | QUANTITIES |
|---|------------|
| ① CONSTRUCT TRAPEZOIDAL EARTH CHANNEL PER SECTION HEREON  | 378 LF     |
| ② CONSTRUCT REINFORCED CONCRETE HEADWALL  | 10 LF      |
| ③ CONSTRUCT REINFORCED CONCRETE WINGWALL  | 216 LF     |
| ④ CONSTRUCT ROCK SLOPE PROTECTION, FACING CLASS, 1.8' THICK OVER FILTER FABRIC  | 3,867 SF   |
| ⑤ INSTALL 84" RCP STORM DRAIN PIPE, D-LOAD AS INDICATED   | 2,109 LF   |
| ⑥ INSTALL 72" RCP STORM DRAIN PIPE, D-LOAD AS INDICATED   | 466 LF     |
| ⑦ INSTALL 48" RCP STORM DRAIN PIPE, D-LOAD AS INDICATED   | 308 LF     |
| ⑧ INSTALL 36" RCP STORM DRAIN PIPE, D-LOAD AS INDICATED   | 300 LF     |
| ⑨ INSTALL 108" STEEL CARRIER PIPE, 1/2" THICK, WITH PIPE SKIDS OR AS DIRECTED BY CALTRANS   | 390 LF     |
| ⑩ CONSTRUCT MANHOLE No. 1 PER STANDARD DRAWING NUMBER MH251 OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT STANDARD MANUAL | 1 EA       |
| ⑪ CONSTRUCT MANHOLE No. 2 PER STANDARD DRAWING NUMBER MH252 OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT STANDARD MANUAL | 8 EA       |

**NOTE:** THE QUANTITIES SHOWN HEREON ARE PROVIDED ONLY FOR THE USE OF THE OWNER. PROSPECTIVE BIDDERS SHALL MAKE THEIR OWN DETERMINATION OF THE QUANTITIES REQUIRED, AND SHALL BASE THEIR BID ON THEIR OWN ESTIMATE.

### TOPOGRAPHY NOTE

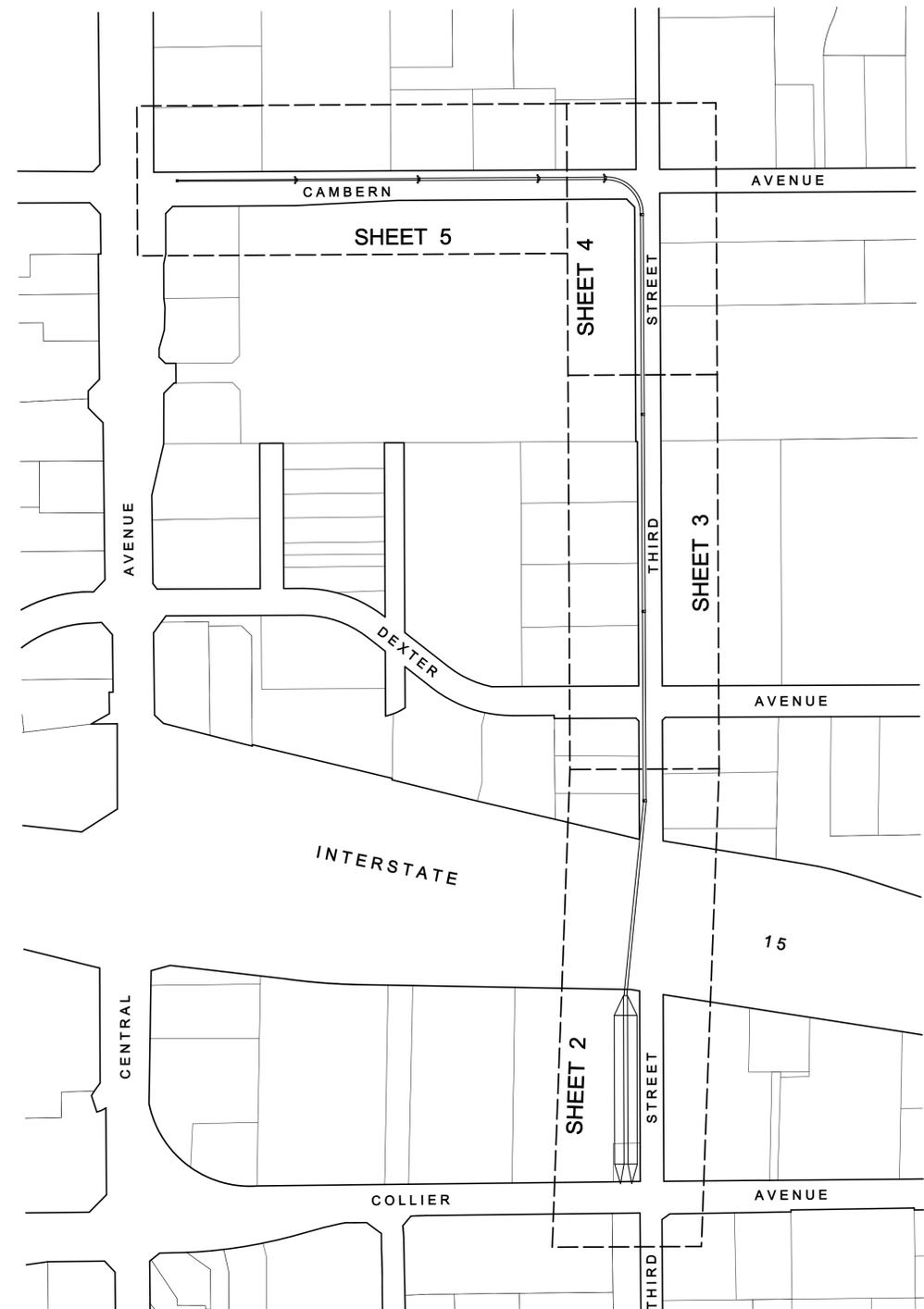
THE TOPOGRAPHY SHOWN WAS PROVIDED BY THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT (RCFCWCD) BASED ON COUNTY DATUM

### BASIS OF BEARING

THE PROJECT COORDINATE SYSTEM IS BASED ON GEOMETRIES RECEIVED FROM GREENBERG FARROW (CLOVIS, CALIFORNIA), CONTRACT BARRY LINDNER, PE FOR SPECIFICS REGARDING HORIZONTAL CONTROL AND BASIS OF BEARING WITHIN THEIR PROJECT LIMITS.

### MAPPING NOTE

THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A FIELD SURVEY OTHER THAN WHAT MAY HAVE BEEN PROVIDED BY OTHERS. THE INFORMATION SHOWN HAS BEEN COMPOSITED FROM ELECTRONIC DATA PROVIDED BY GREENBERG FARROW AND AMENDED WITH A GIS OVERLAY FROM THE CITY OF LAKE ELSINORE AND TOPOGRAPHY FROM RCFCWCD. THE DATA PROVIDED BY THE CITY AND FLOOD CONTROL DISTRICT HAS BEEN ROTATED AND TRANSLATED TO CONFORM TO THE COORDINATE SYSTEM PROVIDED.



INDEX MAP  
SCALE: 1" = 200'

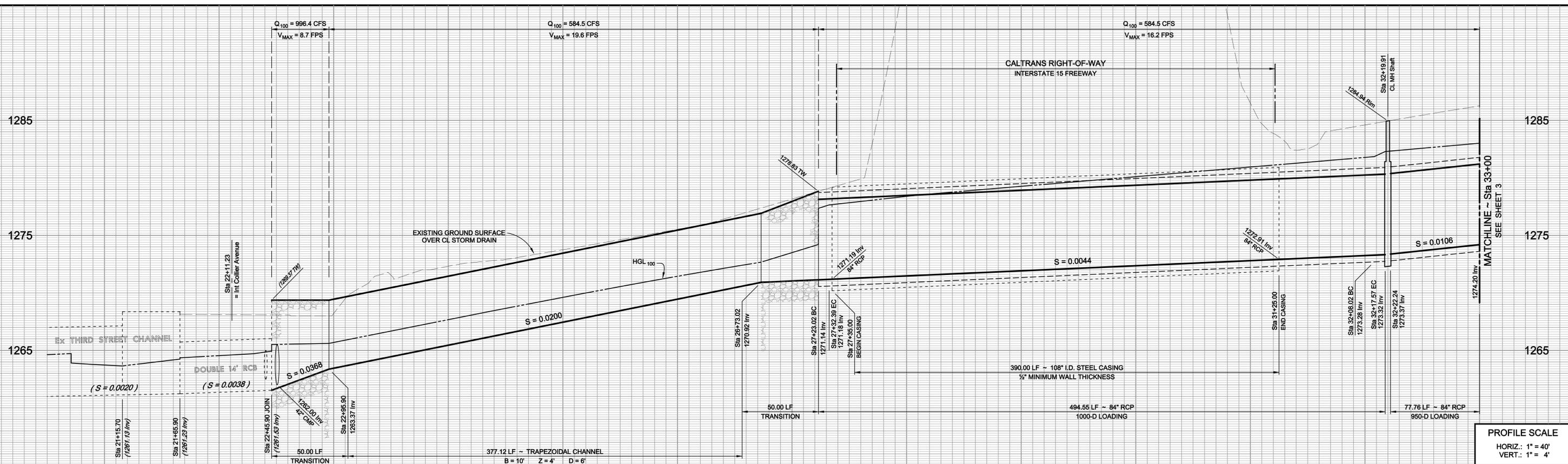
### Underground Service Alert



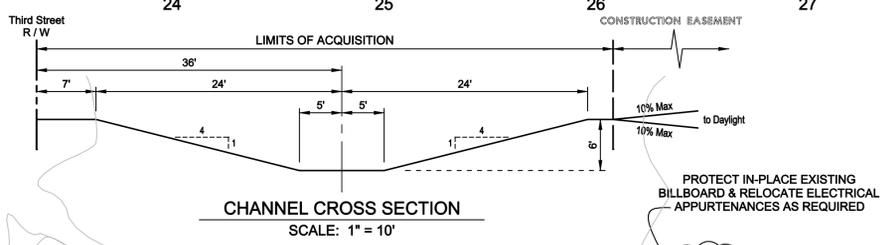
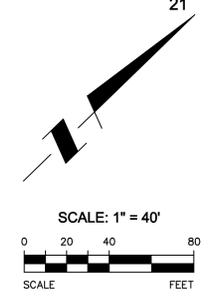
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1-800  
227-2600

TWO WORKING DAYS BEFORE YOU DIG

| MARK | REVISIONS | APPR. | DATE | THESE PLANS HAVE BEEN REVIEWED FOR COMPLIANCE WITH THE APPROPRIATE CONDITIONS OF DEVELOPMENT AND/OR CITY AND STATE LAWS AND HAVE BEEN FOUND ACCEPTABLE | PREPARED BY:   | 35% DESIGN SUBMITTAL                      | CITY OF LAKE ELSINORE  | SHEET 1                            |
|------|-----------|-------|------|--|--|---|--|------------------------------------|
|      |           |       |      |  | <p>OTTE-BERKELEY GROUPE, INC.<br/>575 E. CARREON DRIVE<br/>COLTON, CALIFORNIA 92324-3000<br/>TEL: (909) 370-0911 FAX: (909) 370-1211<br/>E-mail: john@obgsvl.com</p> | <p>SCALE: 1" = 200'</p> <p>BENCHMARK:</p> | <p>PLAN AND PROFILE</p> <p>THIRD STREET STORM DRAIN</p> <p>TITLE SHEET</p> | <p>OF 5 SHEETS</p> <p>FILE No.</p> |
|      |           |       |      | <p>JIM SMITH, RCE No. _____ DATE _____</p> <p>INTERIM DIRECTOR OF PUBLIC WORKS / CITY ENGINEER</p> <p>CITY OF LAKE ELSINORE</p>                        |  |   |  |                                    |



PROFILE SCALE  
 HORIZ.: 1" = 40'  
 VERT.: 1" = 4'



LAND ACQUISITION & CONSTRUCTION EASEMENT REQUIRED PRIOR TO BUILDING EARTHEN CHANNEL

CALTRANS ENCROACHMENT PERMIT REQUIRED FOR ANY CONSTRUCTION WITHIN FREEWAY RIGHT-OF-WAY

- STORM DRAIN CONSTRUCTION ITEMS**
- 1 CONSTRUCT TRAPEZOIDAL EARTH CHANNEL PER SECTION HEREON
  - 2 CONSTRUCT REINFORCED CONCRETE HEADWALL
  - 3 CONSTRUCT REINFORCED CONCRETE WINGWALL
  - 4 CONSTRUCT ROCK SLOPE PROTECTION, FACING CLASS, 1.8" THICK OVER FILTER FABRIC
  - 5 INSTALL 84" RCP STORM DRAIN PIPE, D-LOAD AS INDICATED
  - 6 INSTALL 72" RCP STORM DRAIN PIPE, D-LOAD AS INDICATED
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  - 10 CONSTRUCT MANHOLE No. 1 PER STANDARD DRAWING NUMBER MH251 OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT STANDARD MANUAL
  - 11 CONSTRUCT MANHOLE No. 2 PER STANDARD DRAWING NUMBER MH252 OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT STANDARD MANUAL

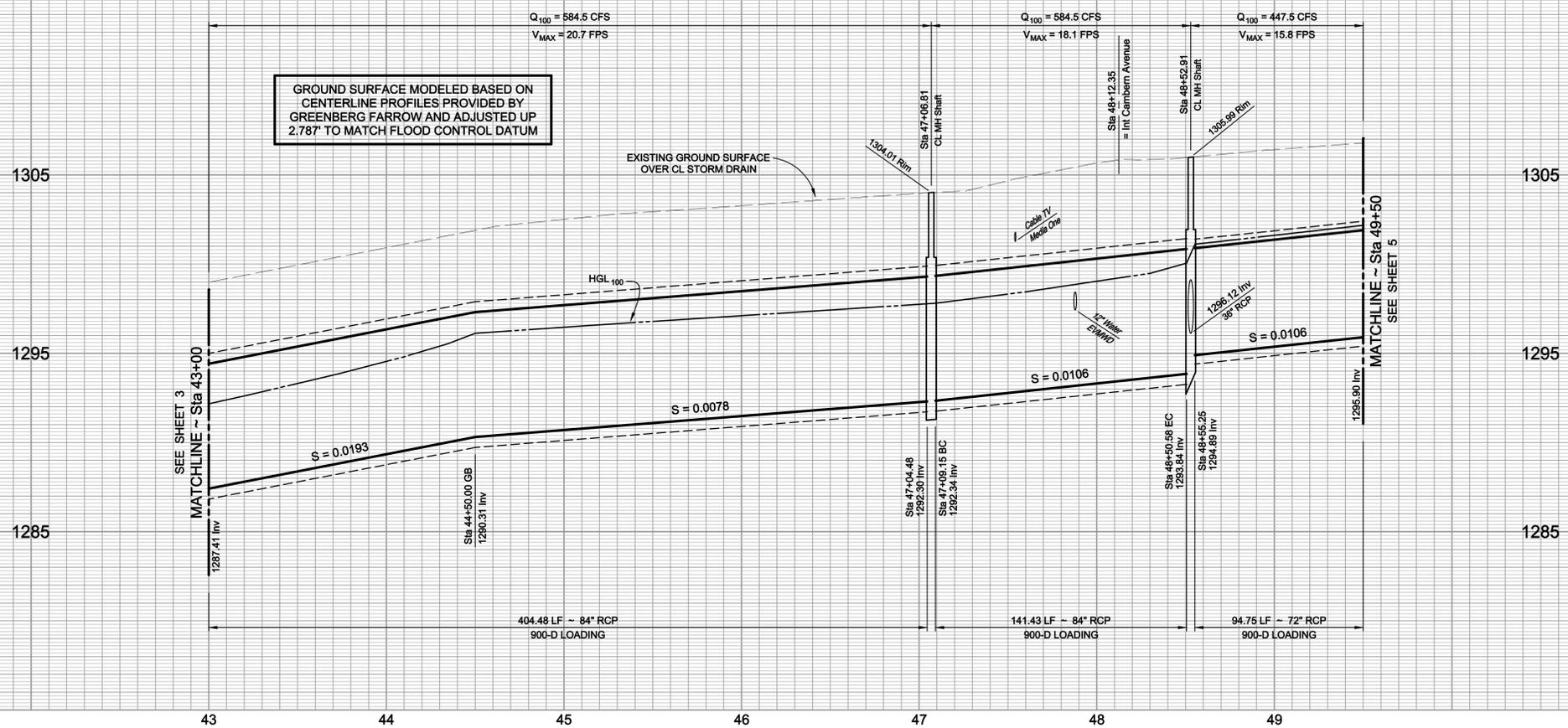
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**CURVE TABLE**

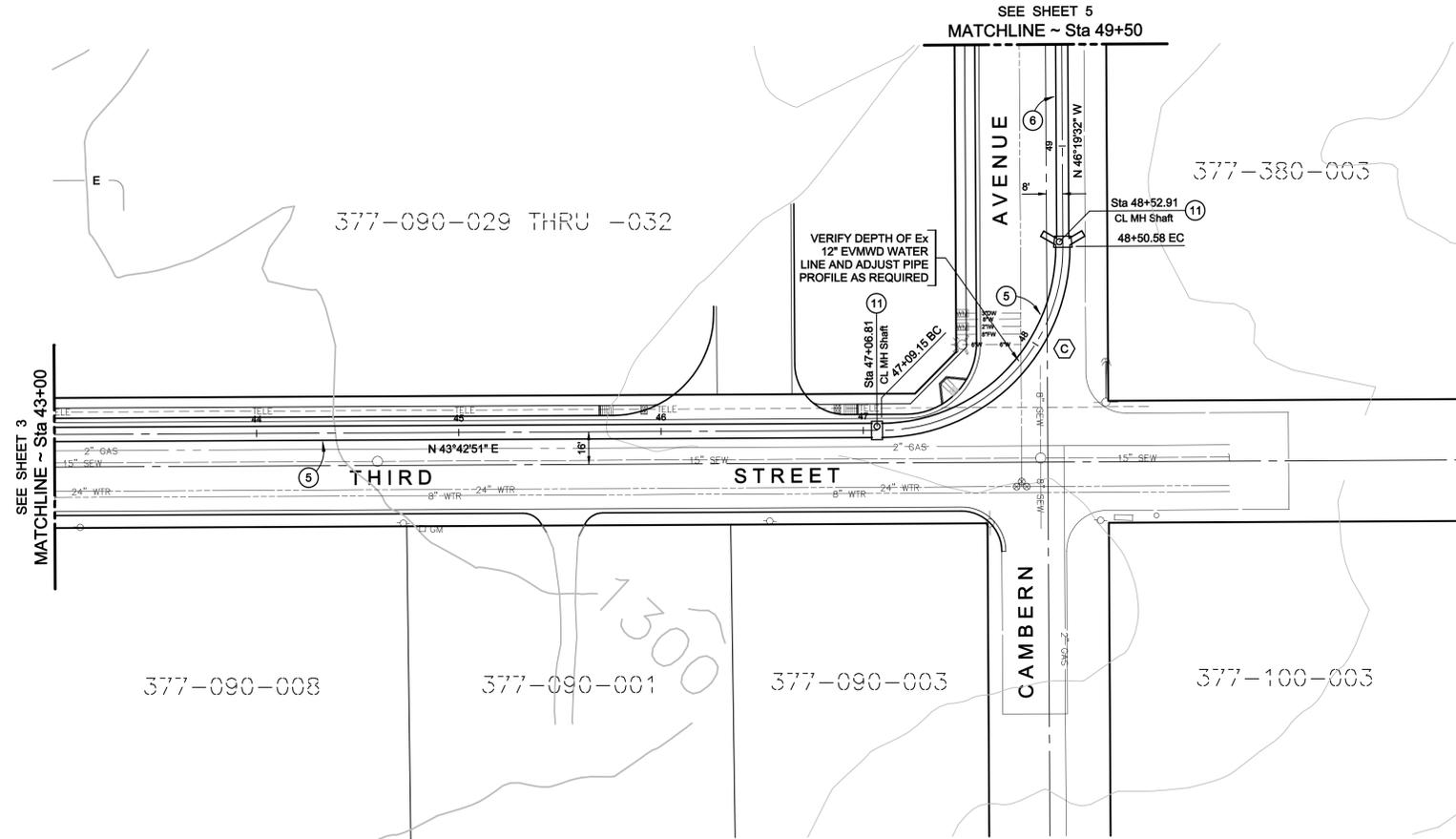
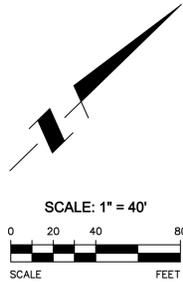
| Curve | Δ         | Radius | Length | Tangent |
|-------|-----------|--------|--------|---------|
| A     | 05°58'02" | 90.00' | 9.37'  | 4.69'   |
| B     | 06°04'47" | 90.00' | 9.55'  | 4.78'   |

|      |           |       |      |  |  |                      |            |  |          |
|------|-----------|-------|------|--|--|----------------------|------------|--|----------|
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|      |           |       |      |  |  | SCALE: 1" = 40'      | BENCHMARK: |  |          |
|      |           |       |      | JIM SMITH, RCE No. INTERIM DIRECTOR OF PUBLIC WORKS / CITY ENGINEER CITY OF LAKE ELSINORE  | JOHN FORD BERKELEY, RCE No. 63652 (Exp. 09/30/16)  | DATE: MAY 2015       |            | THIRD STREET STORM DRAIN<br>Sta 22+46 to Sta 33+00 | FILE No. |





PROFILE SCALE  
 HORIZ.: 1" = 40'  
 VERT.: 1" = 4'



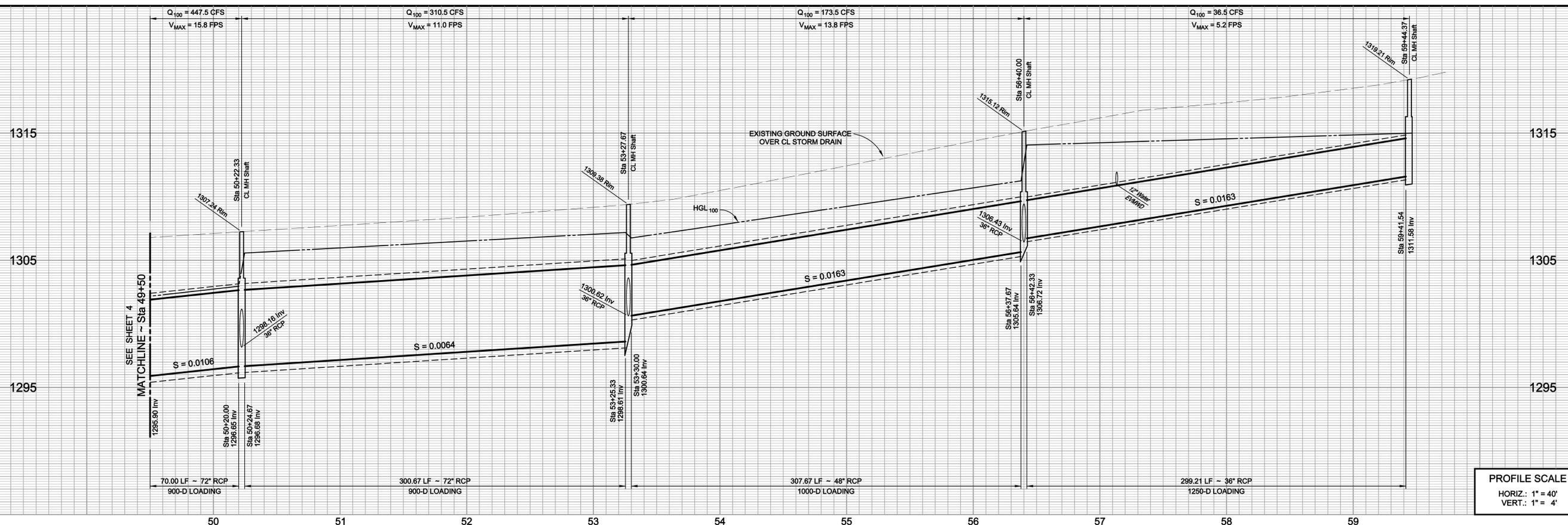
CURVE TABLE

| Symbol | Δ         | Radius | Length  | Tangent |
|--------|-----------|--------|---------|---------|
| C      | 90°02'23" | 90.00' | 141.43' | 90.06'  |

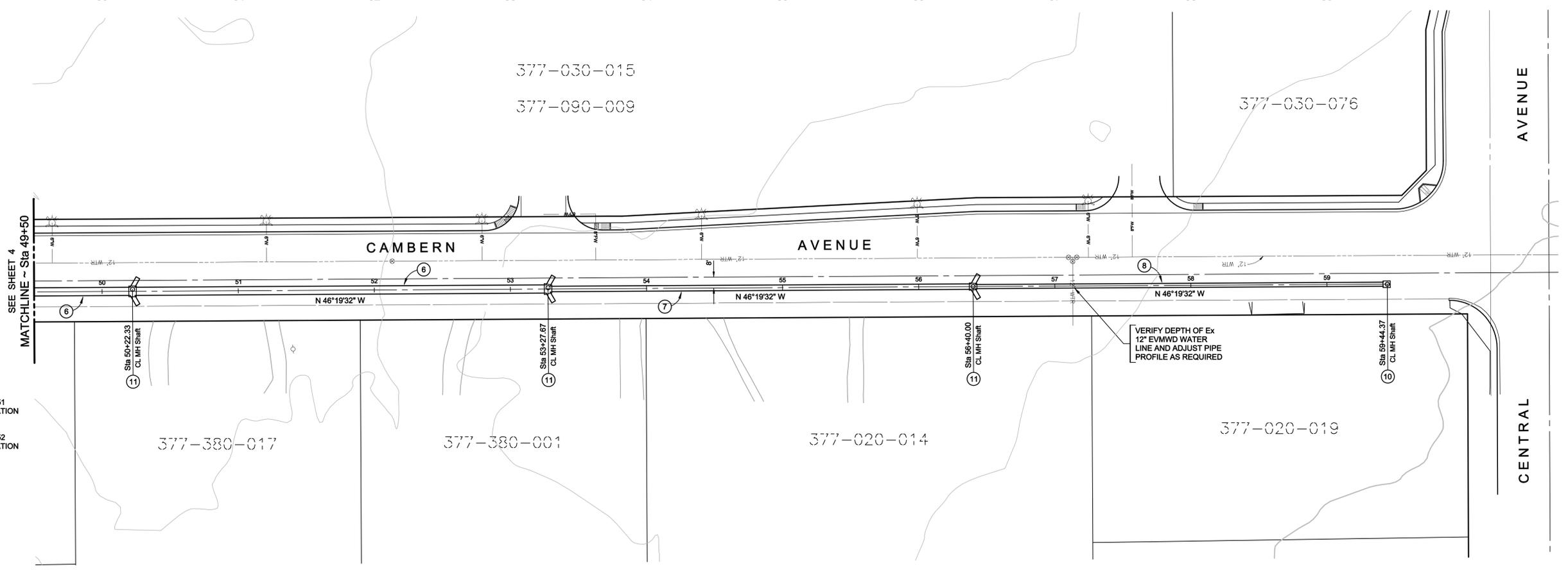
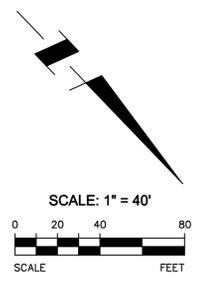
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|      |           |       |      |  |  | SCALE: 1" = 40'      | BENCHMARK: |  |          |
|      |           |       |      | JIM SMITH, RCE No. INTERIM DIRECTOR OF PUBLIC WORKS / CITY ENGINEER DATE   | JOHN FORD BERKELEY, RCE No. 63652 (Exp. 09/30/16) DATE 13 May 2015   | DATE: MAY 2015       |            | THIRD STREET STORM DRAIN<br>Sta 43+00 to Sta 49+50 | FILE No. |



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|      |           |       |      |  |   | SCALE:<br>1" = 40'   | BENCHMARK: |                          |          |
|      |           |       |      | JIM SMITH, RCE No. _____ DATE _____<br>INTERIM DIRECTOR OF PUBLIC WORKS / CITY ENGINEER<br>CITY OF LAKE ELSINORE                                       | JOHN FORD BERKELEY, RCE No. 63652 (Exp. 09/30/16) DATE 13 May 2015  | DATE: MAY 2015       |            | THIRD STREET STORM DRAIN | FILE No. |
|      |           |       |      |  |   |                      |            | Sta 49+50 to Sta 59+44   |          |