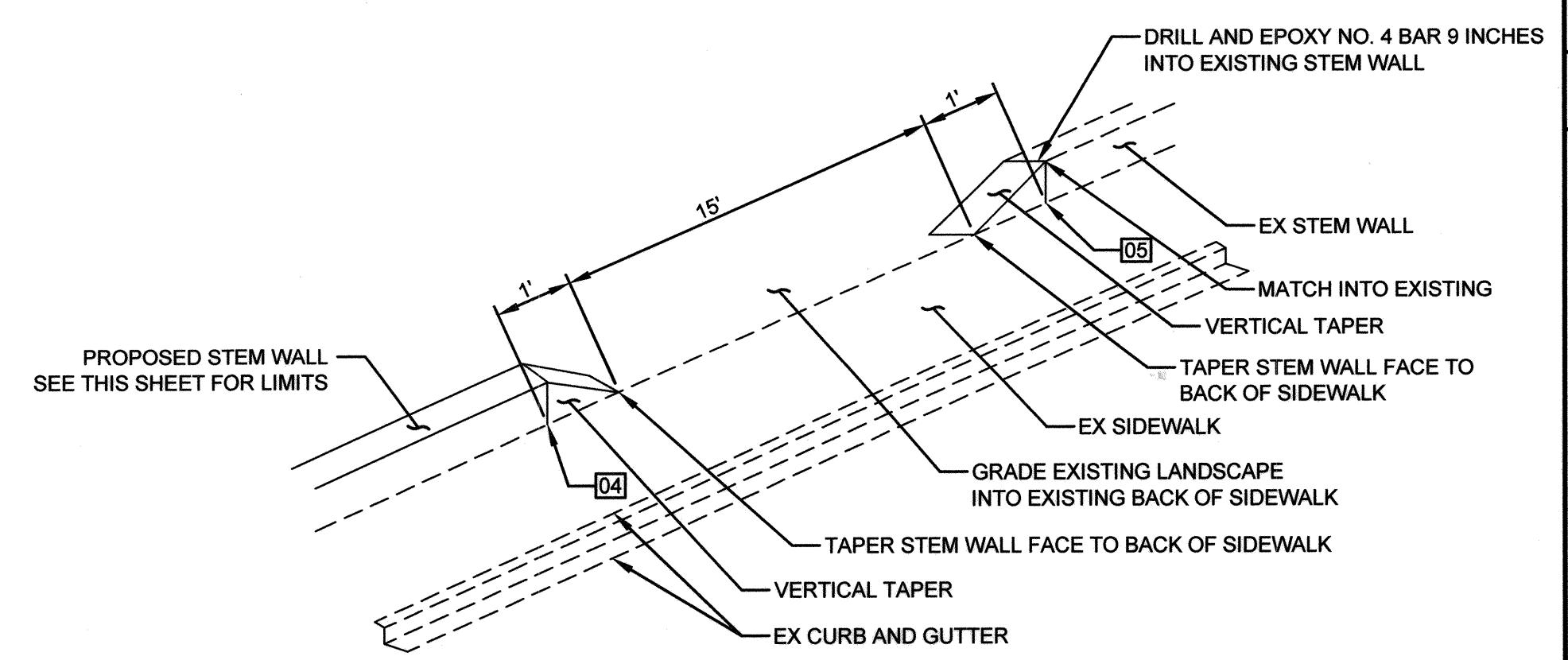


NOTE:  
 1. WEEKEND PLANE JOINT EVERY 10', FOR JOINT DETAIL SEE USGCCA DWG NO 234.  
 2. 1/2" EXPANSION JOINT AT ALL COLD JOINTS, FOR JOINT DETAIL SEE USGCCA DWG NO 234.

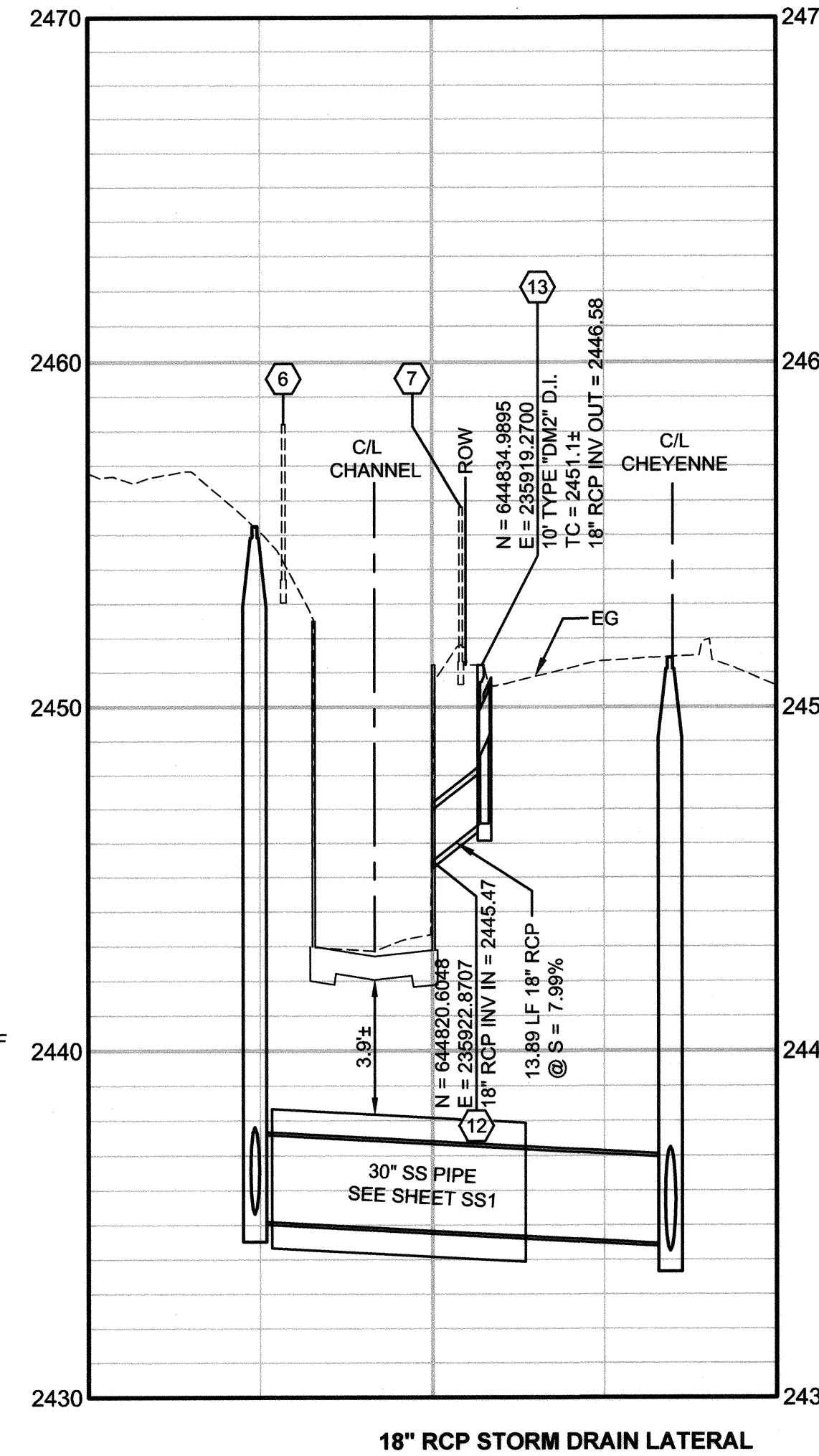
**(A) STEM WALL**  
 NOT TO SCALE



**(B) STEM WALL TAPER**  
 NOT TO SCALE

- MISCELLANEOUS CONSTRUCTION NOTES:**
- REMOVE AND REPLACE 42 LF OF EXISTING STEM WALL FROM DESIGN POINT 03 TO 04. REMOVE STEM WALL FROM DESIGN POINT 04 TO 05. INSTALL STEM WALL TAPERS AT DESIGN POINT 04 AND 05. SEE THIS SHEET FOR STEM WALL DETAIL AND STEM WALL TAPER DETAIL.
  - EXISTING 48" SD (PROTECT IN-PLACE)
  - EXISTING ELEC MH (TO BE RELOCATED BY OTHERS)
  - EXISTING TREES TO BE REMOVED
  - EXISTING DECORATIVE CMU WALL (PROTECT IN-PLACE)
  - REMOVE AND REPLACE 32 LF OF DECORATIVE CMU WALL & PILLAR. MATCH EXISTING DESIGN, TEXTURE AND COLORS. SEE WALL DETAILS ON SHEET D8.
  - REMOVE AND REPLACE 15 LF OF DECORATIVE CMU WALL & PILLAR. MATCH EXISTING DESIGN, TEXTURE AND COLORS. SEE WALL DETAILS ON SHEET D8.
  - REMOVE AND REPLACE 10 LF OF WROUGHT IRON FENCE AND CURBING. MATCH EXISTING FENCE DESIGN AND COLOR. SEE WROUGHT IRON FENCE DETAIL ON SHEET D8.
  - REMOVE AND REPLACE TRAFFIC SIGNAL BOX. CONTRACTOR SHALL PROTECT IN PLACE OR ADJUST TRAFFIC SIGNAL CONDUIT DURING CONSTRUCTION AND REPLACE TO EXISTING CONDITIONS (SEE TS SHEETS FOR CONDUIT AND WIRE SCHEDULE).
  - REMOVE AND REPLACE DROP INLET WITH 20" TYPE "DM2" PER USGCCA STD DWG NO 412.1  
 N = 644752.9925, E = 235953.9905
  - CONNECT DROP INLET TO EXISTING 36" SD PIPE  
 N = 644780.09±, E = 235955.96±
  - CONNECT 18" RCP TO RECTANGULAR CHANNEL  
 N = 644820.6048, E = 235922.8707
  - REMOVE AND REPLACE DROP INLET WITH 10" TYPE "DM2" DROP INLET PER USGCCA STD DWG NO 412.1. INSTALL 13.89 LF 18" RCP SEE STORM DRAIN PROFILE ON THIS SHEET.  
 N = 644834.9895, 235919.2703
  - REMOVE AND REPLACE CHANNEL LADDER. SEE SHEET D6.
  - REMOVE AND REPLACE 30 LF OF EXISTING STEM WALL. SEE THIS SHEET FOR DETAIL.
  - EXISTING SIGN TO BE REMOVED AND REINSTALLED. SEE SHEET ST1.

- LEGEND:**
- DENOTES LIMITS OF EXISTING CHANNEL REMOVE AND REPLACE. SEE RECTANGULAR CHANNEL DETAILS ON SHEET D5 (26 LF THIS SHEET)
  - DENOTES LIMITS OF EXISTING SLOPE PAVING REMOVE AND REPLACE (208 SQ FT THIS SHEET)
  - DENOTES LIMITS OF EXISTING LANDSCAPING REMOVE AND REPLACE AS NEEDED FOR CONSTRUCTION (1,315 SQ FT THIS SHEET)
  - DENOTES CURB, GUTTER AND SIDEWALK REMOVE AND REPLACE PER USGCCA STD DWG 216 & 234 (25 LF THIS SHEET)



**NOTE:**

- PER SPECIFICATION 622, CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SURVEY OF EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO CONCRETE CHANNEL, PAVEMENT, MEDIAN, CURB, GUTTER AND SIDEWALK PRIOR TO REMOVAL TO ENSURE IMPROVEMENTS ARE REPLACED TO EXISTING LOCATION AT EXISTING OR BETTER CONDITION.

DESIGN POINTS			
POINT NO	NORTHING	EASTING	DESCRIPTION
01	644718.7522	235952.2235	BEGIN CURB, GUTTER & SIDEWALK REP
02	644786.4261	235952.8542	END CURB, GUTTER & SIDEWALK REP
03	644726.4132	235948.1731	BEGIN LANDSCAPE REP/SEE MISC CONST NOTE 1
04	644768.4223	235948.8613	SEE MISC CONST NOTE 1
05	644785.4201	235949.1351	END LANDSCAPE REP / CURB REMOVAL
06	644765.1705	235910.6820	END LANDSCAPE REP
07	644785.2845	235931.5403	END LANDSCAPE REP
08	644766.2102	235910.6548	BEGIN SLOPE PVMNT REP
09	644785.5404	235930.7286	BEGIN SLOPE PVMNT REP
10	644786.0819	235910.8485	BEGIN CHANNEL REP
11	644786.0828	235910.9848	END SLOPE PVMNT REP
12	644786.1793	235926.2658	BEGIN CHANNEL REP / SLOPE PVMNT - AP
13	644786.2473	235930.7403	END SLOPE PVMNT REP
14	644786.3164	235935.2810	BEGIN CHANNEL REP
15	644803.3794	235910.7796	CHANNEL REP - FL
16	644803.8216	235935.8828	CHANNEL REP - AP
17	644820.1140	235910.7129	END CHANNEL REP
18	644820.1450	235911.5505	BEGIN SLOPE PVMNT REP
19	644820.6312	235925.0167	CHANNEL REP / SLOPE PVMNT - AP
20	644820.8367	235931.3147	BEGIN SLOPE PVMNT REP
21	644820.9896	235935.9979	END CHANNEL REP
22	644828.2405	235911.6850	END SLOPE PVMNT REP
23	644828.3996	235920.6644	SLOPE PVMNT REP - AP
24	644828.2122	235923.4227	SLOPE PVMNT REP - AP
25	644824.6649	235931.3783	END SLOPE PVMNT REP
26	644830.0273	235921.2058	END LANDSCAPE REP
27	644825.3931	235931.3904	BEGIN LANDSCAPE REP
28	644828.5109	235931.4422	END LANDSCAPE REP
29	644833.1981	235910.8640	BEGIN CURB, GUTTER & SIDEWALK REP
30	644832.7781	235931.5130	END CURB, GUTTER & SIDEWALK REP

NO.	DATE	DR	CHK	REVISION	BY
1		M. WARMICK	D. PUBLLOW		J. GRIEST

**DEPARTMENT OF PUBLIC WORKS**  
**ENGINEERING DESIGN SECTION**  
 CITY ENGINEER: DAVID N. BOWERS, P.E.  
 PROJECT MANAGER: GINA VENGLOSS, P.E.

**DURANGO HILLS RELIEF SEWER PROJECT**

**CH2MHILL**  
 2468 W. LAS VEGAS AVENUE, SUITE 600, HENDERSON, NV 89014  
 PHONE 702-398-5175; CH2M HILL FPO#41 #240265

**STORM DRAIN REPLACEMENT DETAILS**

PROFESSIONAL ENGINEER STATE OF NEVADA  
 JEFFREY N. GRIEST  
 EXP. 06/30/15  
 CIVIL  
 No. 17166  
 1-22-14

Sheet **D3**  
 25 of 35

DATE April 2014  
 DWG NO. 307V1045

**FAST**  
 Call before you UnderGround  
 1-702-432-5300  
 FREDWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.  
 Call before you Overhead  
 1-702-227-2929  
 NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig  
 AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  
 Call 811

**HANSEN #29930**

FILE NAME: DRRS\_LAYOUT\_CSD\_STORM DRAIN.DWG