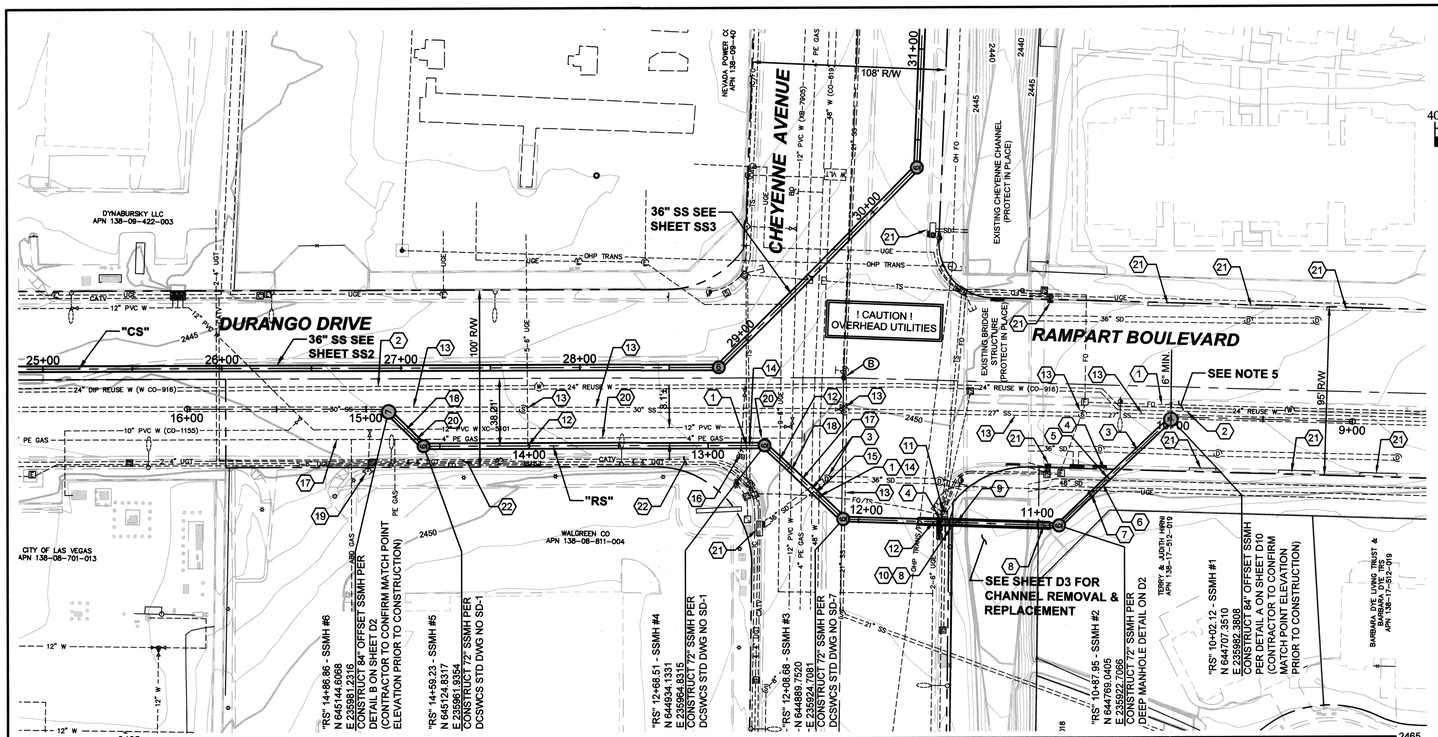
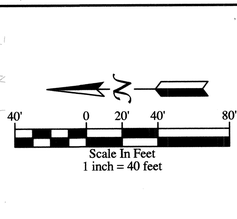
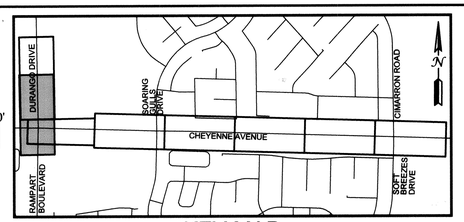






KEY MAP

MISCELLANEOUS CONSTRUCTION NOTES:

1. EXISTING FO (PROTECT IN-PLACE)
2. EXISTING 24" REUSE W (PROTECT IN-PLACE)
3. EXISTING 36" SD AND SDMH (PROTECT IN-PLACE)
4. EXISTING DROP INLET TO BE REMOVED AND REPLACED SEE SHEET D3
5. EXISTING STEM WALL TO BE REMOVED AND REPLACED SEE SHEET D3
6. EXISTING 48" SD (PROTECT IN-PLACE)
7. EXISTING ELEC MH (TO BE RELOCATED BY OTHERS)
8. EXISTING CMU WALL TO BE REMOVED AND REPLACED SEE SHEET D3
9. EXISTING 18" STORM DRAIN PIPE TO BE REMOVED AND REPLACED SEE SHEET D3
10. EXISTING WROUGHT IRON FENCE TO BE REMOVED AND REPLACED SEE SHEET D3
11. EXISTING TRAFFIC SIGNAL BOX TO BE REMOVED AND REPLACED SEE TS SHEETS FOR CONDUIT WIRE SCHEDULE
12. EXISTING UGE (PROTECT IN-PLACE)
13. FOR PROTECTION AND ABANDONMENT OF EXISTING SEWER SEE SHEETS SS2 AND SS3
14. EXISTING TS (PROTECT IN-PLACE OR ADJUST AS NECESSARY PER SPECIFICATION SECTION 623. COST OF ADJUSTING TRAFFIC SIGNAL CONDUIT IS INCIDENTAL TO CONSTRUCTION. SEE TS SHEETS FOR CONDUIT AND WIRE SCHEDULE)
15. EXISTING 48" W (PROTECT IN-PLACE PER SPECIFICATION SECTION 629)
16. EXISTING BLOW OFF VALVE, PROTECT VALVE IN PLACE AND ADJUST COVER TO GRADE PER UDACS PLATE 37 (THIS IS AN ACTIVE BLOWOFF ASSEMBLY AND MAY NOT BE SHUTDOWN FOR ANY REASON)
17. EXISTING 4" PE GAS (PROTECT IN-PLACE)
18. EXISTING 12" W (PROTECT IN-PLACE PER SPECIFICATION SECTION 629)
19. EXISTING FIRE HYDRANT (PROTECT IN-PLACE)
20. EXISTING 4" PE GAS TO BE RELOCATED BY SWG CONCURRENT WITH CONSTRUCTION PER SPECIFICATION SECTION 105.06.
21. EXISTING STORM DRAIN DROP INLET (PROTECT IN-PLACE)
22. EXISTING CURB, GUTTER, AND SIDEWALK (PROTECT IN-PLACE OR REMOVE AND REPLACE AS NECESSARY FOR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER)

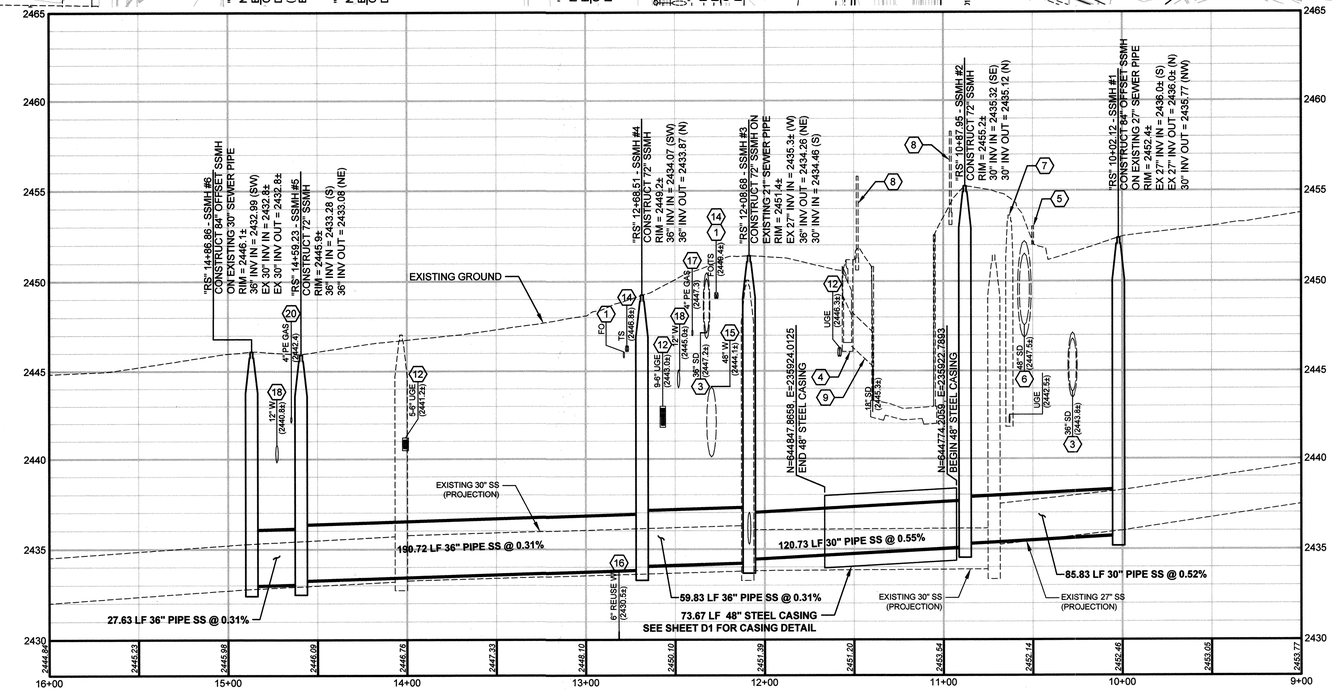
NOTES:

1. CONTRACTOR SHALL VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES BEING TIED INTO OR CROSSING PRIOR TO ANY WORK BEING DONE. CONTRACTOR SHALL COORDINATE ANY DISCREPANCIES WITH THE ENGINEER.
2. LINEAR FOOTAGE (LF), SLOPES, AND INVERTS OF SANITARY SEWER PIPES AS SHOWN ON THE PLANS ARE CALCULATED HORIZONTALLY FROM CENTERLINE OF MANHOLE TO CENTERLINE OF MANHOLE.
3. SEE PR1-PR4 & D3 SHEETS FOR PAVEMENT, CURB, GUTTER, SIDEWALK, MEDIAN AND LANDSCAPING REMOVAL/REPLACEMENT LIMITS
4. ALL WATERLINES CROSSING TRENCH WIDTHS GREATER THAN 6 FT. SHALL HAVE A PIPE SUPPORT DETAIL SUBMITTED TO THE DISTRICT FOR APPROVAL PRIOR TO EXCAVATION.
5. IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE FEET (3 FT) FROM THE TOP OF THE LVVWD 24" MLCP RECYCLED WATER TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN FEET (10 FT) OF THE PIPELINE IN THESE AREAS. CONTRACTOR TO PLACE A CONCRETE BARRIER, I.E. JERSEY-RAIL, TO IDENTIFY THE NO EQUIPMENT ZONE.

SURVEY MONUMENTS*

CAP	NORTHING	EASTING	SHEET	LOCATION
(A)	646269.054	235982.787	D4	DURANGO
(B)	644890.462	236003.688	D4/SS1/SS3	DURANGO/CHEYENNE
(C)	644850.889	237356.533	SS4	SOARING GULLS/CHEYENNE
(D)	644822.546	238370.795	SS6	CHEYENNE
(E)	644813.051	238708.917	SS6	CHEYENNE
(F)	644793.793	239384.528	SS7	CHEYENNE
(G)	644784.194	239722.379	SS7	CHEYENNE
(H)	644774.532	240060.098	SS8	CIMARRON/CHEYENNE

*SEE CITY OF LAS VEGAS GENERAL NOTE #13 ON SHEET G3



APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services Manager
Date 04/29/14 Project No. 115833

FAST
Call before you UnderGround 1-702-432-5300
FREEWAY 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

NO.	DATE	REVISION	BY	APVD
DSGN	M. WARNICK	DR D. PUBLOW	CHK CH2M HILL	APVD J. GRIEST

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

DURANGO HILLS
RELIEF SEWER PROJECT

CH2MHILL
2485 VILLAGE VIEW DRIVE, SUITE 380, HENDERSON, NV 89074
PHONE 702.940.4700, CH2M HILL Project #640366

SANITARY SEWER DESIGN
PLAN AND PROFILE
"RS" 10+00 TO "RS" 15+00

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

Sheet	SS1
	5 of 35
DATE	April 2014
DWG NO.	307V1045

FILE NAME: DHRS_LAYOUT_C3D_RAMPART SEWER.DWG