

LIST OF DRAWINGS

SHT NO	DESCRIPTION:
1	City of Las Vegas Standard Sheet, List of Approvals
2	General Notes, List of Drawings
3	Reference Map and Onsite Drainage Improvements
4	Street Plan & Profile - O'Bannon Dr.
5	Street Plan & Profile - BelCastro St.
6	Plan and Profile 18" Storm Drain and Cul-De-Sac - El Parque St.
7	Plan and Profile 18" Storm Drain - El Parque St.
8	Site Details
9	Site Details and Storm Drain Profile
10	33' Drop Inlet Details - O'Bannon Dr.

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE "UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
 2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
 3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
 4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
 5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
 6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
 7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
 8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
 9. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.
 10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
 11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
 12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
 13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
 14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
 15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
 16. WALL NOTES:
 - A. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
 - B. THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS (RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CLV BUILDING DEPARTMENT.
 17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON THE CITY STREETS.
- REVISED 12/92

REVISÉD 12/92

CLV – SEWER NOTES

1. ALL SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN & CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, LATEST EDITION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY OF LAS VEGAS.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. SEWER PIPE MATERIAL SHALL BE IN ACCORDANCE WITH UNIFORM STANDARDS SPECIFICATION, AND INSTALLED IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS.
5. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER SHALL HAVE CONCRETE COLLARS.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIAMETER SIZE, CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURE.
7. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN. (SEE DETAIL SHEET D2).
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

[illegible]

ABBREVIATIONS

AC	ASPHALT CONCRETE
ACP	ASPHALT CONCRETE PIPE
C/L	CENTERLINE
CB	CURB
CMU	CONCRETE MASONARY UNIT
CONT	CONTINUOUS
	EAST
EGL	EAST GRADE LINE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
HBL	HYDRAULIC GRADE LINE
IE	INVERT ELEVATION
INV	INVERT
	LENGTH FEET
NH	NORTH
N	NORTH
OC	ON CENTER
P/V	POINT OF VERTICAL INTERSECTION
R	RATE
RT	RIGHT
S	SLOPE
SD	SLOPE DRAIN
SL	SEWER LINE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
SW	SIDEWALK
TC	TOP OF CURB
TNH	TOP OF MANHOLE
TOW	TOP OF WALL
VB	VALVE BOX
VC	VERTICAL CURVE

LEGEND

	CENTERLINE
	EXISTING UTILITIES
	FIRE HYDRANT
	MANHOLE
	STREETLIGHT(100 WATT LUMINAIRE)
	VALVE

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 88° 21'22" EAST, BEING THE NORTH LINE OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 60 EAST, MDM AS SHOWN IN FILE 54, PAGE 67 OF SURVEYS IN THE CLARK COUNTY NEVADA RECORDERS OFFICE.

BENCHMARK

CLARK COUNTY NUMBER: 7C10-2SWW6

RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB, NORTHEAST CORNER OF RAINBOW BLVD. AND OAKLEY BLVD.
NEAR THE PC OF RAINBOW BLVD.

$$\text{ELEV} = 731.619 \text{ METERS} \times (3937/1200) = 2400.32$$
$$2400.32 - 2.403 = 2397.917$$

ELEVATION 2397.917 FOR THIS PROJECT

AS BUILT

DEVIATION FROM STANDARDS

1. NONE

LIST OF DRAWINGS

1. **GENERAL NOTES**
 2. **PLAN OF THE SEWER MAIN LINE**
 3. **PLAN OF THE SEWER BRANCHES**
 4. **PLAN OF THE SEWER MANHOLE**
 5. **PLAN OF THE SEWER CLEANOUT**
 6. **PLAN OF THE SEWER TIE-IN**
 7. **PLAN OF THE SEWER REPAIR**
 8. **PLAN OF THE SEWER REPLACEMENT**
 9. **PLAN OF THE SEWER EXTENSION**
 10. **PLAN OF THE SEWER CONNECTION**

GENERAL NOTES

1. **ALL DIMENSIONS ARE IN FEET AND INCHES. ALL DIMENSIONS ARE TO THE CENTER OF THE PIPE UNLESS OTHERWISE NOTED.**
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ABBREVIATIONS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DEVIATION FROM STANDARDS

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