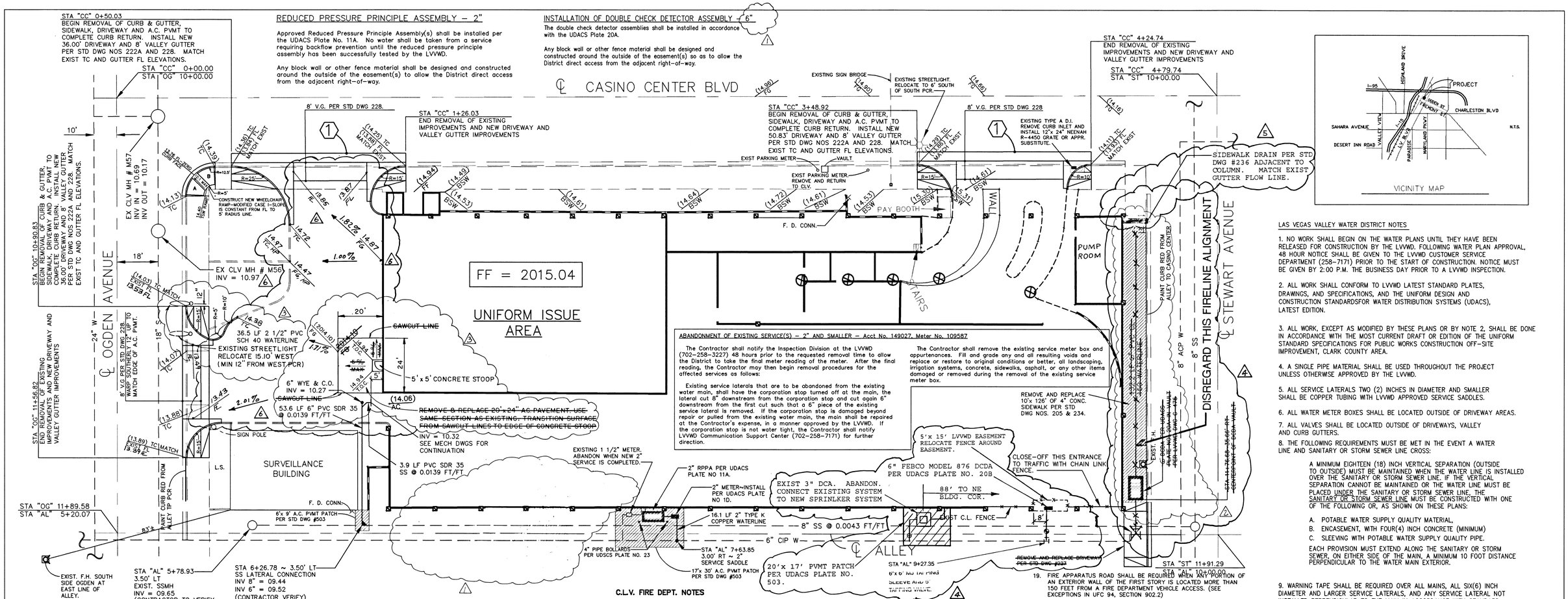

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.

2. ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDSFOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.

3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.

6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.

8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:

A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:

A. POTABLE WATER SUPPLY QUALITY MATERIAL,
B. ENCASEMENT, WITH FOUR(4) INCH CONCRETE (MINIMUM)
C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.

EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.

9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX(6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.

10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.

11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO(2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT(48)HOURS PRIOR TO PICKUP.

12. CONSTRUCTION MAY INTERUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICES FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.

13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

LEGEND

	BLOCK WALL
	CONCRETE WALL
	SIDEWALK
⊠	1.67' X 1.67' COLUMN
⊠	2.00' X 2.00' COLUMN
⊗	BEAM

OWNER: HORSESHOE CLUB
128 EAST FREMONT STREET
LAS VEGAS, NEVADA 89101
PHONE: (702) 382-1600

OFF-SITE QUANTITIES

DESCRIPTION	UNIT	QUANTITY
WATER:		
2" WATER SERVICE	EA	1.0
6"x 6" WET TAP	EA	1.0
6" PVC CL 150 WATERLINE	LF	132.2
6" - 90° BEND	EA	1.0
SANITARY SEWER		
6" PVC SDR 35 SAN SEWER	LF	24.0
6" CLEANOUT	EA	1.0

BASIS OF BEARING

S 62°15'00" E BEING THE CENTERLINE OF OGDEN STREET, AND BEING 90° TO MAIN STREET (S 27°15' PER BOOK 1 PAGE 37 OF PLATS).

BENCHMARK

2LV01 34NW6
RIVET & PLATE IN TOP OF CURB, NE RETURN OF FREMONT STREET AND MAIN STREET.
ELEV: 616.7593 METERS (NAVD 88) = 2023.4845 FEET

3" D.C. Acct. No. 123049, Meter No. 155488

ABANDONMENT OF EXISTING SERVICE(S) – LARGER THAN 2"

The Contractor shall notify the LVVWD at (702-258-7171) 48 hours prior to the requested removal time to allow the District to take the final meter reading of the meter. After the final reading, the Contractor may then begin removal procedures for the affected service as follows:

All valves to be abandoned in the closed position, unless shown otherwise, by removing a minimum of the top 12 inches of the valve box and then filling the remaining portion of the valve box with concrete having a compressive strength of at least 2,000 psi. The Contractor shall cut the existing pipe 3'+ beyond the abandoned valve and install a cap. Where a joint or coupling in the existing pipe is uncovered at the cut and cap location, the installation of a plug may be permitted with District approval. The Contractor shall install a concrete thrust block in accordance with the provisions of the District's Standard Plate No. 5 at all cap or plug locations. The existing meter(s) shall be removed and delivered to the District. The Contractor shall then remove and/or backfill the abandoned vault.

REVISIONS

NO.	DESCRIPTION	BY	CLV APPR	LVWWD APPR
1	DELETE 4" DCDA IN ALLEY & APPURTENANCES	WKG 6-18-96	N/A	RK 6/21/96
2	CHANGE 8" DCDA AT STEWART TO 6" AND APPURTENANCES		N/A	
3	Relocate St Light on Ogden, Add 5'-5' Conc. Stoop and Expansion 24'x 20' A.C. Pavement at South Door	WKG 7-17-96	NEJ 7/22/96	N/A

APPROVALS:

Gregory P. Rothwell — MAY 15, 1996
LAS VEGAS VALLEY WATER DISTRICT — DATE

CLV FIRE DEPARTMENT — DATE

4	RELOCATE WET TAP AND 6" DCDA. RELOCATE 3" DCA TO BE ABANDONED.	WKG 8-9-96	N/A	CAJ 8/15/96

5	ADD SIDEWALK DRAIN	WKG 9/27/96	DWB 10/7/96	N/A

6	DISREGARD REM & REPL 75'-0"x 45' A.C. PVMT AT SO. DOOR PER REV #1. REM & REPL ALL 'A' CURB AND A.C. PVMT SOUTH OF GARAGE TO GRADES INDICATED. USE SAME PVMT SECTION AS EXISTING.	WKG 9/27/96	N/A	N/A

ABANDONMENT OF EXISTING SERVICE(S) – 2" AND SMALLER – Acct No. 149027, Meter No. 109587

The Contractor shall notify the Inspection Division at the LVVWD (702-258-3227) 48 hours prior to the requested removal time to allow the District to take the final meter reading of the meter. After the final reading, the Contractor may then begin removal procedures for the affected services as follows:

Existing service laterals that are to be abandoned from the existing water main, shall have the corporation stop turned off at the main, the lateral cut 8" downstream from the corporation stop and cut again 6" downstream from the first cut such that a 6" piece of the existing service lateral is removed. If the corporation stop is damaged beyond repair or pulled from the existing water main, the main shall be repaired at the Contractor's expense, in a manner approved by the LVVWD. If the corporation stop is not water tight, the Contractor shall notify LVVWD Communication Support Center (702-258-7171) for further direction.

The Contractor shall remove the existing service meter box and appurtenances. Fill and grade any and all resulting voids and replace or restore to original conditions or better, all landscaping, irrigation systems, concrete, sidewalks, asphalt, or any other items damaged or removed during the removal of the existing service meter box.

C.L.V. FIRE DEPT. NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS," AND ORDINANCE #3944.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
   A. KENNEDY GUARDIAN
   B. MUELLER A-423 CENTURIAN
   C. CLOW MODEL 2546 MEDALLION
3. ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3944 TO IDENTIFY THE FIRE HYDRANT LOCATION.
5. CALL THE CITY OF LAS VEGAS FIRE DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
6. PAINTING OF THE CURBS AND HYDRANTS AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANT FROM PHYSICAL DAMAGE PER ORDINANCE #3944 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
8. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
9. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
10. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND A.W.W.A. APPROVED.
11. FIRE HYDRANT SPACING:
    RESIDENTIAL-500 FEET UNSPRINKLERED; 1,000 FEET SPRINKLERED. COMMERCIAL, INCLUDING MULTI-FAMILY-300 FEET UNSPRINKLERED: 600 FEET SPRINKLERED.
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS, WHERE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF STRUCTURES, FIRE HYDRANTS SHALL BE SPACED AT MAXIMUM 1,000 FOOT SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
15. TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
16. NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
17. FIRE APPARATUS ACCESS ROADS SHALL HAVE AN OBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET PROVIDED NO PARKING IS ALLOWED, NOT LESS THAN 28 FEET IF PARALLEL PARKING IS ALLOWED ON ONE SIDE, AND NOT LESS THAN 36 FEET IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
18. THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
19. FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN UFC 94, SECTION 902.2)
20. ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE #3944.
21. ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LAND AND WITH SIGNS AT INTERVALS OF 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM THE ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
22. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

REVISED 1/96

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATION RIGHTS-OF-WAY AND/OR DEDICATION EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS". THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATIONS FROM STANDARDS" IN FAVOR OF THE UNIFORM STANDARDS DRAWINGS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA.

PROFESSIONAL ENGINEER-STATE OF NEVADA — JAMES DAVIS CAHILL — No. 8292 — 5/13/96

FOR DENNIS ANDERSON, P.E. NO. 9160 — 5/17/96 — DATE
CLV CITY ENGINEER

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 2813 gallons per minute at 20 psi residual pressure

Based on:

SQUARE FOOTAGE (3 FLRS.) 124,800 square feet

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: 41,600 square feet

BUILDING HEIGHT: 175 feet

NUMBER OF STORIES: 6 floor

TYPE OF CONSTRUCTION: I-F.R.

OCCUPANCY: S-1, S-3

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

Reviewed By: Gary Mottl

Date: 5-13-96

DEVIATION FROM STANDARDS:

WHEELCHAIR RAMPS – SEE DETAIL SHEET C-2
GUTTER SLOPES

CONSTRUCTION LEGEND

(1) REMOVE A FOUR-FOOT WIDE STRIP OF A.C. PAVEMENT FOR THE LENGTH OF THE DRIVEWAY IMPROVEMENTS. THIS LINE WILL BE A HINGE-LINE TO TRANSITION THE REPLACED A.C.PAVEMENT TO THE EDGE OF THE VALLEY GUTTER AND SPANDRELS. CONSTRUCT NEW PAVEMENT SECTION PER STD. DWG. NO. 205, BUT NO LESS THAN EXISTING THICKNESSES OF A.C.PAVEMENT AND AGGREGATE BASE MATERIAL.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

MARTIN & MARTIN
MARTIN & MARTIN
CIVIL ENGINEERS
1909 S. JONES BLVD.
SUITE B
LAS VEGAS, NEVADA 89102
PHONE (702) 248-8000

DRAWN BY

RISSMAN AND RISSMAN ASSOCIATES, LTD.
NORTH PROMENADE, LAS VEGAS HILTON-3000 PARADISE ROAD
LAS VEGAS, NEVADA 89109-1238 (702) 735-1131
ARCHITECTS

SCALE 1" = 20'

STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ELECTRICAL ENGINEER

REVISED
4/15/96

BINION'S HORSESHOE PARKING GARAGE 2 UNIFORM ISSUE

UTILITY PLAN

C1.1
SHEET 1 of 2
DRAWING NUMBER

107-V2522