

BENCHMARK:

STATION 1LV90 33NES
RIVET & PLATE IN TOP OF CURB, ANN ROAD &
BUFFALO DRIVE, SOUTH CURB LINE.
ELEV. = 723.0679 (METERS) NAVD88 DATUM
3.28083333 U.S. SURVEY FEET = 1 METER
ELEVATION = 2372.265 FEET

ELEVATION NOTE:

THE BASE ELEVATION OF 2400 FEET MUST BE APPLIED
TO ALL ELEVATIONS SHOWN ON THESE PLANS.
EXAMPLE: 02.45 = 2402.45 AND 98.67 = 2398.67

CONSTRUCTION NOTE

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION
AREA SHALL BE ADJUSTED TO MATCH FINISHED GRADE (I.E.
WV, BOX, MH, ANNODE BOX, FH, TEL. BOX, ETC.)

NOTES

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE
OF PIPE UNLESS INDICATED OTHERWISE.
CONTRACTOR SHALL VERIFY HORIZONTAL AND
VERTICAL ALIGNMENT OF EXISTING UTILITIES AND
NOTIFY THE ENGINEER IMMEDIATELY OF ANY
DISCREPANCIES PRIOR TO CONSTRUCTION.

ON-SITE LIGHTING NOTE

ALL ON-SITE LIGHTING IN PHASE 5 PER SYSKA
HENNESSY ELECTRICAL SITE PLANS. LITES SHOWN
ON CIVIL PLANS FOR LOCATION ONLY.

BASIS OF BEARING:

NORTH 88°42'47" EAST FROM THE NORTHWEST CORNER
OF SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST,
M.D.M., MARKED WITH A 3" BLM BRASS CAP, STAMPED
"1956" TO THE NORTH QUARTER CORNER OF SAID
SECTION 28, MARKED WITH A 1-1/2" ALUMINUM CAP.
PER RECORD MAP OF SURVEY FOR NORTHWEST/
WESTERN SEGMENT OF THE LAS VEGAS BELTWAY,
RECORDED IN FILE 89, PAGE 3, OF SURVEYS, CLARK
COUNTY RECORD, NEVADA.

DISCLAIMER

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE
ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY
TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL
LOCATION OF ALL EXISTING UNDERGROUND UTILITIES
PRIOR TO COMMENCING CONSTRUCTION. CONTRACTORS
AND OTHERS USING THESE PLANS MUST CONFIRM THE
LOCATION OF UNDERGROUND LINES OR STRUCTURES.
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR
UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN
THEIR PROPER LOCATION.

SEWER SPECIFICATIONS

THE ON-SITE SANITARY SEWER SYSTEM FOR THIS
PROJECT WAS DESIGNED PER THE UNIFORM DESIGN
AND CONSTRUCTION STANDARDS SPECIFICATIONS
(DATED 1997), AND UNIFORM PLUMBING CODE.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 8"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL
BE INSTALLED PER THE UDACS PLATE NO. 11B. NO WATER
SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW
PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE
ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWMD.
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE
DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE
EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM
THE ADJACENT RIGHT-OF-WAY.
EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO
THE START OF CONSTRUCTION.

INSTALLATION OF METER AND VAULT 8" X 2" FSM

THE METER(S) AND VAULT(S) WITH NON-TRAFFIC BEARING
COVER(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE FSM
DETAIL ON SHEET 16 AND WITH UDACS STANDARD VAULT
DRAWING C-475, LATEST REVISION.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE
DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE
EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE
VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

ABANDON VALVE CUT AND CAP

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 WITHIN 3' OF
THE ABANDONED VALVE OR WHERE SHOWN ON THE PLANS 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
UDACS PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS.

NOTE TO CONTRACTOR:

THE DISTRICT WILL NOT GUARANTEE A WATER-TIGHT SHUTDOWN
WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE
REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND
EQUIPMENT IS AVAILABLE AT ALL TIMES TO REMOVE FUGITIVE
WATER WHICH MAY IMPEDE CONSTRUCTION AT ALL TIMES.
COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE
PRIOR TO ANY TRIAL SHUTDOWN.
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE
PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES
ARE AVAILABLE.

COMMON UTILITY EASEMENT

THIS PROJECT INCLUDES A COMMON UTILITY EASEMENT FOR
THE PURPOSE OF SUPPLYING AND MAINTAINING THE
PROJECT WITH UTILITIES SERVICES. SAID EASEMENT
COVERS THE PROJECT WITH THE EXCEPTION OF INDIVIDUAL
BUILDING PADS. THIS EASEMENT IS DOCUMENTED PER THE
OWNER'S CERTIFICATE & DEDICATION NOTE ON THE
CENTENNIAL CENTER UNIT 1 FINAL MAP, RECORDED JUNE
23, 2000 IN FILE 95, PAGE 34.

FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER
MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE: 6,000
LARGEST AREA BETWEEN 4-HOUR
AREA SEPARATION WALLS: N/A
BUILDING HEIGHT: 40'-0"
NUMBER OF STORIES: ONE
TYPE OF CONSTRUCTION: V-N
OCCUPANCY: MIXED

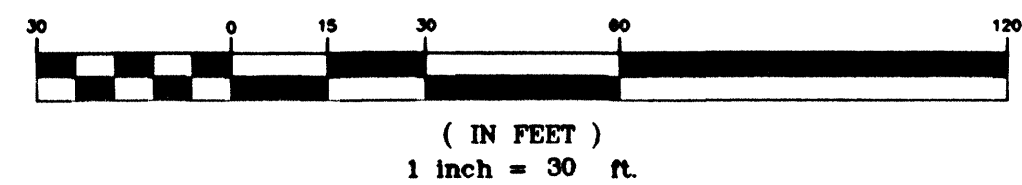
FULL AUTOMATIC FIRE
SPRINKLER SYSTEM: PADS 22.24, & 25 ONLY
(TYPED-GROUP A, ALL OTHERS-GROUP B)
REVIEWED BY:

DATE:

FIRELINE NOTES

- ALL MATERIALS AND INSTALLATION TO BE
ACCORDING TO NFPA 24, 1995 EDITION.
- PIPING TO BE BURIED AT A MINIMUM OF 3.0 FEET
(PER LOCAL REQUIREMENTS).
- ALL FIRELINE PIPING TO BE HYDROSTATICALLY
TESTED AT 200 PSI FOR A MINIMUM OF TWO HOURS.
- ALL UNDERGROUND PIPING TO BE FLUSHED PRIOR TO
CONNECTING TO THE OVERHEAD PIPING SYSTEM.
- ALL PIPING WITHIN 5' OF THE BUILDING TO BE
DUCTILE IRON.
- THRUST BLOCKS AND RESTRAINTS SHALL BE INSTALLED
INSTALLED PER LAS VEGAS VALLEY WATER DISTRICT STD.
- SEE FIRE PROTECTION DRAWINGS FOR SPRINKLER
SYSTEM CALCS. AND WATER SUPPLY INFORMATION.
- ALL PIPING, HYDROSTATIC TESTING AND FLUSHING OF
SYSTEM TO BE WITNESSED AND/OR INSPECTED AS
REQUIRED BY THE AUTHORITY HAVING JURISDICTION
PRIOR TO BEING BACKFILLED.
- ALL SYSTEM CONTROL VALVES MUST BE EQUIPPED
WITH TAMPER SWITCHES AND MONITORED BY THE
FIRE ALARM PANEL (INCLUDING VALVES ASSOCIATED
WITH BACKFLOW PREVENTERS).

GRAPHIC SCALE



WATER CONSTRUCTION NOTES

- INSTALL 8" C-900 PVC WATER LINE
- INSTALL 6" C-900 PVC WATER LINE
- INSTALL 2" PVC WATER LINE
- INSTALL 8" RPPA PER UDACS PLATE NO. 11B
- REMOVE CAP AND BLOWOFF, REMOVE CORP STOP AND
INSTALL PLUG. CONNECT TO EXISTING MAIN.
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 8
- INSTALL VEHICULAR PROTECTION BOLLARDS PER UDACS
PLATE NO. 23
- INSTALL 10" C-900 PVC WATER LINE
- INSTALL 8" X 2" FSM AND A NON-TRAFFIC BEARING
VAULT PER UDACS DWG NO. C-475 AND DETAIL ON
SHEET 16
- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO.
7 (INCLUDES 6" GATE VALVE)
- CAP WATER FOR FUTURE BUILDING CONNECTION
- FIRE DEPARTMENT CONNECTION (FDC) LOCATION ONLY
(REFER TO ARCHITECTURAL PLANS FOR CONSTRUCTION)
- INSTALL 8" X 2" REDUCER
- INSTALL 6" X 6" X 6" TEE
- INSTALL 8" X 8" X 8" TEE
- INSTALL 10" 90° ELL
- INSTALL 8" 45° ELL
- INSTALL 8" 22.5° ELL
- INSTALL 8" X 6" REDUCER
- INSTALL 8" X 8" X 6" TEE
- INSTALL 8" X 8" X 2" TAPPING COUPLING
- INSTALL 2" 45° BEND
- INSTALL 2" 90° BEND
- INSTALL 10" X 8" REDUCER
- CONTRACTOR TO ABANDON VALVE, CUT AND CAP WATER
LINE IN THE LOCATION SHOWN PER PLAN(REFER TO THE
ABANDONED VALVE CUT AND CAP NOTE PER THIS SHEET
FOR EXACT REQUIREMENTS)

SEWER CONSTRUCTION NOTES

- NOT USED
- INSTALL 8" SDR 35 PVC SEWER LATERAL
- INSTALL 8" SDR 35 PVC SEWER MAIN
- NOT USED
- INSTALL 48" DIAMETER SEWER MANHOLE PER
UDACS SD-1
- INSTALL SEWER CLEANOUT PER DETAIL #1, ON
SHEET UT-01
- PLUG SEWER FOR FUTURE CONNECTION

CITY FIRE MARSHAL

DATE



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CENTENNIAL CENTRE A Limited Liability Company	EKN ENGINEERING, INC.
UTILITY PLAN	CENTENNIAL CENTER PHASE 5 (PADS 22-26)
SHEET DRAWN BY: S-3-02 DESIGNED BY: S-3-02 CHECKED BY: S-3-02 PROJECT NO: 3074-4628-5 SCALE: 1"=30'	NEVADA LAS VEGAS
PROFESSIONAL ENGINEER-STATE OF NEVADA No. 11077 5/1/02	
SHEET UT-2 15 OF 22 SHEETS CLV DRAWING NO. 3074-4628-5	