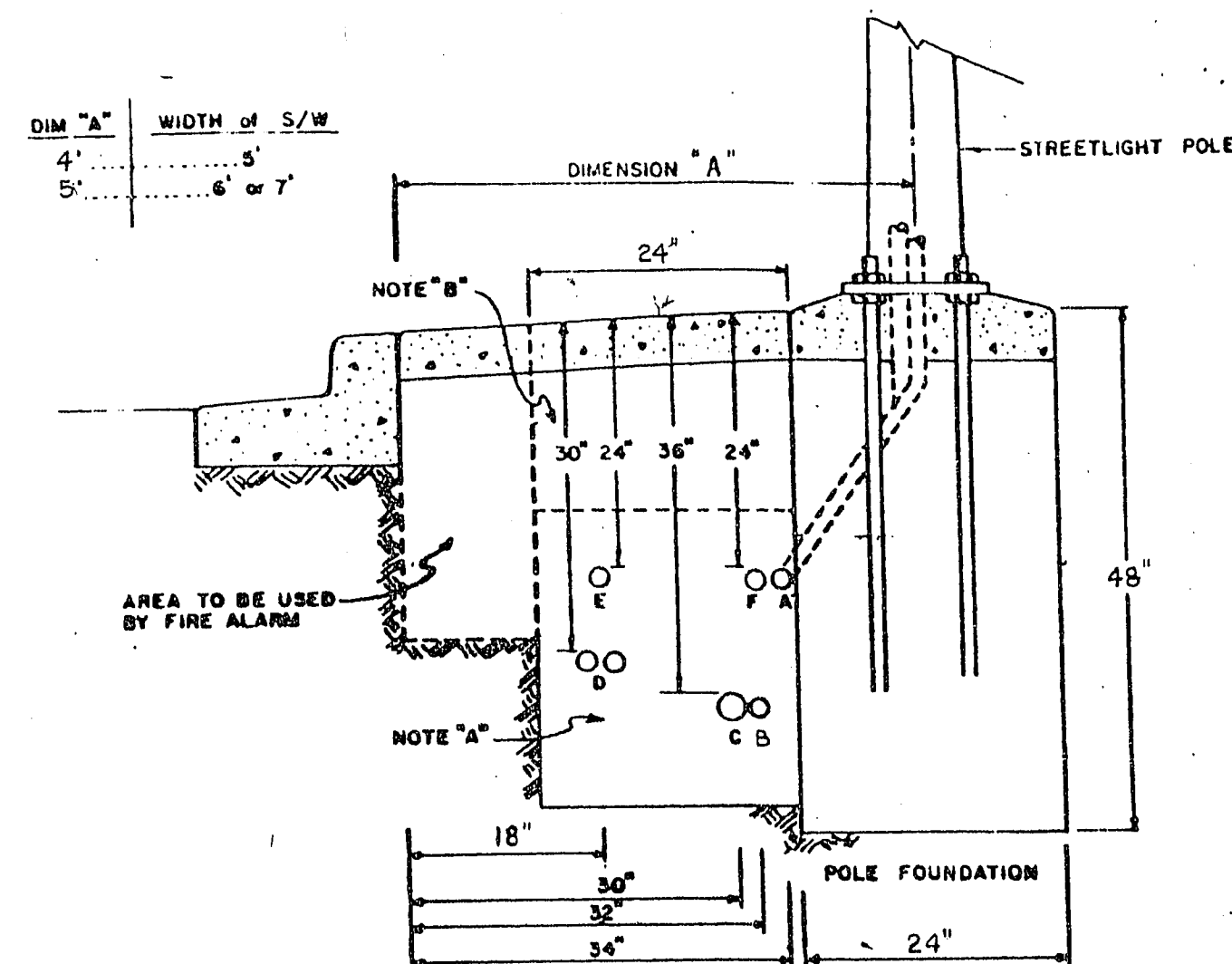
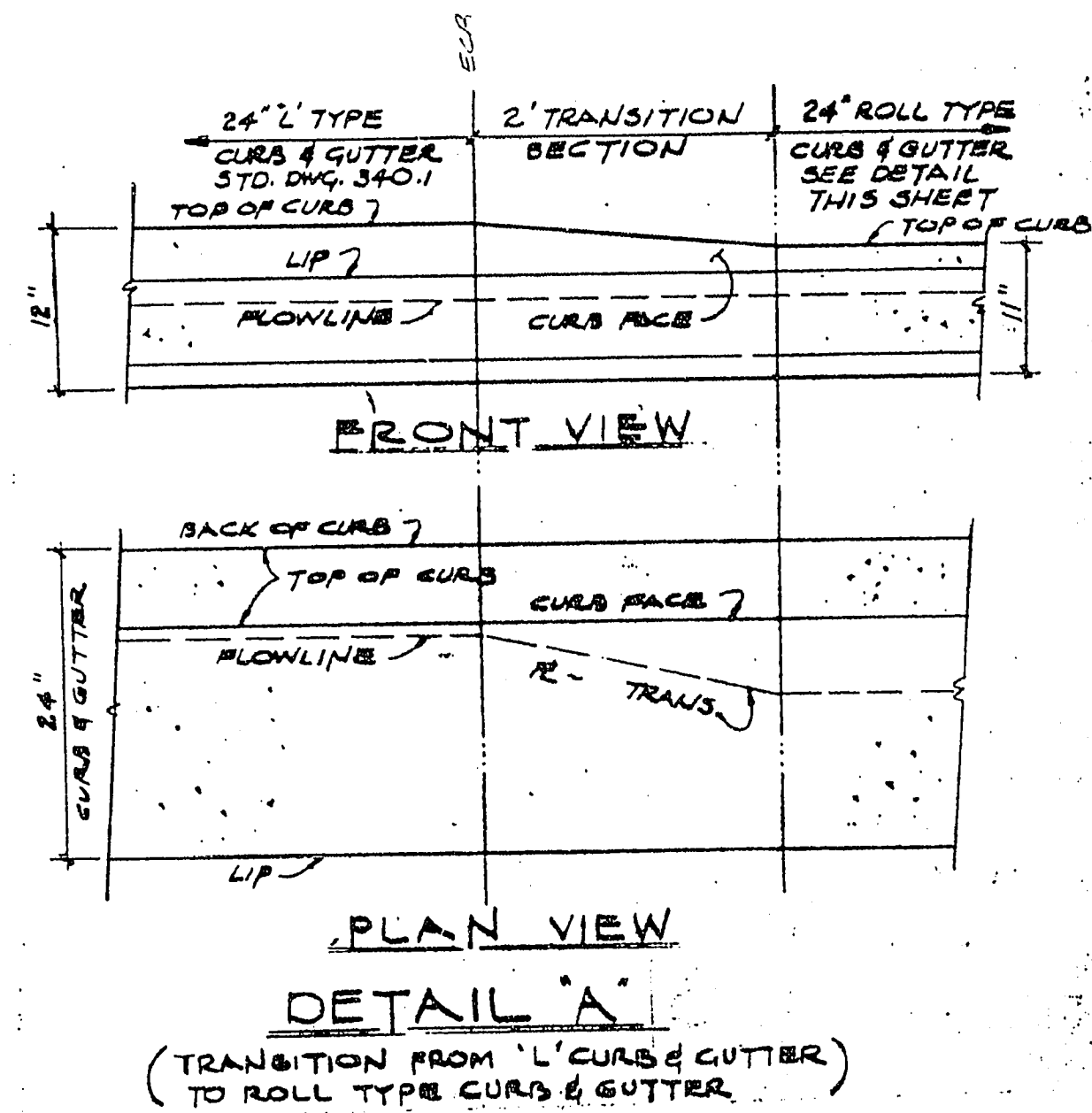




APP'D./DIR. OF PUBLIC SERVICES	SPECIFICATION REFERENCE
	623 6.02.01 623 6.03.05
	623 6.03.04
TYPICAL UTILITY LOCATIONS IN A COMMON TRENCH IN SUBDIVISIONS	UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION CITY OF LAS VEGAS
	DRAWING NUMBER 623 L. 0004

- NOTES:
- STREETLIGHT CONDUIT
 - POWER COMPANY SECONDARY
 - POWER COMPANY PRIMARY
 - TELEPHONE CONDUITS
 - CABLE TV CONDUIT
 - TRAFFIC SIGNAL CONDUIT
- "A" SELECT NATURAL FILL WILL BE ALLOWED BELOW TYPE 2 GRAVEL BASE
- "B" TYPE 2 GRAVEL (MAXIMUM SIZE 1") COMPACTED TO 90 % DENSITY WITH THE TOP 10" COMPACTED TO 95 % DENSITY.

LAS VEGAS STREET LIGHTING NOTES AND SPECIFICATIONS

240 VOLT SINGLE PHASE TWO WIRE SYSTEMS - UNDERGROUND

ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.

STREET LIGHTING STANDARDS SHALL BE AS SHOWN BY DRAWING NO. 400.1, PAGE 40 OF UNIFORM STANDARD DRAWINGS AND MUST CONFORM TO SECTIONS 400 AND 405 AND ANY OTHER APPLICABLE SECTIONS OF THE UNIFORM STANDARD SPECIFICATIONS.

ON 80' RIGHT-OF-WAY STREETS THERE SHALL BE 2 POLES ON DIAGONAL CORNERS.

ON 100' RIGHT-OF-WAY STREETS THERE SHALL BE ONE POLE AT EACH CORNER.

HIGH PRESSURE SODIUM LUMINAIRES TO BE USED ON 51' AND 60' RIGHT-OF-WAY STREETS SHALL BE 100 WATT, 240 VOLT I.E.S. DISTRIBUTION TYPE 3, WITH INTEGRAL CONSTANT WATTAGE BALLAST, SIMILAR TO GENERAL ELECTRIC TYPE M-250A, CATALOGUE NO. 726G584 OR APPROVED EQUAL.

HIGH PRESSURE SODIUM LUMINAIRES TO BE USED ON 80' RIGHT-OF-WAY STREETS AND OVER SHALL BE 250 WATT, 240 VOLT I.E.S. DISTRIBUTION TYPE 3, WITH INTEGRAL CONSTANT WATTAGE BALLAST, SIMILAR TO GENERAL ELECTRIC TYPE M-400A, CATALOGUE NO. 724G804 OR APPROVED EQUAL.

100 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE SYLVANIA LU100 OR APPROVED EQUAL.

250 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE SYLVANIA LU250 OR APPROVED EQUAL.

PHOTO CELL AND CONTROL TO BE 120 VOLTS; FISHER-PIERCE 6660 OR APPROVED EQUAL.

SPACING OF STANDARDS SHALL BE 180 FEET MAXIMUM ON 51' AND 60' RIGHT-OF-WAY STREETS ON ONE SIDE.

SPACING OF STANDARDS SHALL BE 180 FEET MAXIMUM ON 80' RIGHT-OF-WAY STREETS ON EACH SIDE AND STAGGERED.

SPACING OF STANDARDS ON 100' RIGHT-OF-WAY STREETS OR MORE SHALL BE 120 FEET MAXIMUM ON EACH SIDE AND STAGGERED.

SCHEDULE 40 RIGID NON-METALLIC CONDUIT (PVC) OR APPROVED EQUAL COMPLYING WITH ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE MAY BE USED FOR UNDERGROUND APPLICATIONS AND SHALL BE WITHIN 12' OF BACK OF CURB AND SHALL HAVE 24" COVER.

FUSE HOLDERS AND CONNECTORS SHALL BE INSTALLED IN THE BASES OF ALL LIGHTING STANDARDS. FUSE HOLDERS SHALL BE BUSS-TRON-HEX-AA, WITH RUBBER BOOTS.

BASE COVERS FOR LIGHTING STANDARDS ARE NOT TO BE INSTALLED BEFORE BREAKOUT CAPS ARE PLACED AND INSPECTED. ALL MATERIAL USED IN UNDERGROUND WIRING, IN BREAKOUT CAPS AND UNDER BASE COVERS IS TO BE INSPECTED BEFORE INSTALLATION.

FOUNDATIONS SHALL BE CONSTRUCTED AND LOCATED TO LINE AND GRADE AS DIRECTED BY THE FIELD ENGINEER.

LIGHTING STANDARD AND MAST ARM CABLE TO LUMINAIRES SHALL BE 10/2 U.F. TYPE 600 VOLT COPPER CABLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING DAMAGE TO PROPERTY, EITHER PUBLIC OR PRIVATE AND IN THE EVENT OF SUCH DAMAGE, SHALL MAKE SATISFACTORY REPAIRS AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS, IF REQUIRED.

THE SERVICE POINT STANDARD IS TO BE INSTALLED AT THE APPROVED LOCATION SHOWN ON PLANS AND SHALL CONFORM TO DRAWING NO. 401.1, PAGE 44, OF THE UNIFORM STANDARD DRAWINGS.

IN THE SELECTION OF 100 AND 250 WATT HIGH PRESSURE SODIUM LUMINAIRES TO BE USED IN A PARTICULAR DEVELOPMENT, ONE APPROVED MANUFACTURER SHALL BE SPECIFIED.

THESE SPECIFICATIONS BECOME EFFECTIVE ON ALL CITY OF LAS VEGAS MULTIPLE STREET LIGHTING DESIGNS APPROVED ON OR AFTER JUNE 1, 1977.

THESE SPECIFICATIONS SHALL BE SUPERSEDED BY ANY REVISED SPECIFICATIONS IN EXISTENCE AT THE TIME OF INSTALLATION.

FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS" AND "HYDRANT INSTALLATION SPECIFICATIONS".

2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:

- A - KENNEDY GUARDIAN
B - MUELLER A-423 CENTURIAN

3. ON ANY NEW HOME OR BUILDING CONSTRUCTION, 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 GREEN REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANTS.

5. CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.

6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER THE "HYDRANT INSTALLATION SPECIFICATIONS" SHALL BE COMPLETED BEFORE APPROVAL OF THE HYDRANTS BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.

7. LAS VEGAS VALLEY WATER DISTRICT TO DETERMINE THAT HYDRANTS ARE CONNECTED TO A WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.

8. FIRE HYDRANT SPACING:

- RESIDENTIAL 600 FT. MAXIMUM
COMMERCIAL 500 FT. MAXIMUM

FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FT. OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE, AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.

9. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6' OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT, OR ANY OTHER ORSTRUCTION.

10. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20' OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.

11. A PERMIT MUST BE OBTAINED FROM THE FIRE DEPARTMENT FOR ONSITE FIRE WATER SYSTEM INSTALLATION PRIOR TO CONSTRUCTION.

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARDS AND SPECIFICATIONS.

2. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA.

3. NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.

4. SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1 1/2" AND 2" SERVICE LATERALS. DOUBLE-TAPPED COLLARS ARE NOT PERMITTED.

5. ALL LINES TO BE PRESSURE TESTED TO 200 psi.

6. DEFLECTION ANGLE SHALL NOT EXCEED 2 1/2 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZES BETWEEN 14 INCHES AND 16 INCHES.

7. ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.

8. DETECTOR TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:

- (a) OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
(b) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.

9. SERVICE LATERALS FOR LOTS WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LAS VEGAS VALLEY WATER DISTRICT.

C.L.V. SEWER NOTES

1. ALL SANITARY SEWER INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.

2. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

3. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.

4. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.

5. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE, CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.

6. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

ALCA
ENGINEERING & SURVEYING, INC.

PACIFIC BAY
LAS VEGAS, NEVADA
UNIT #2
GENERAL NOTES & DETAILS
FOR SEWER, WATER, STREET LIGHTING, FIRE, STREET & TRAFFIC

JOB NO.
8712-05-02

SHEET 6 OF 6

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LAS VEGAS, NV 89107 (702) 878-3358