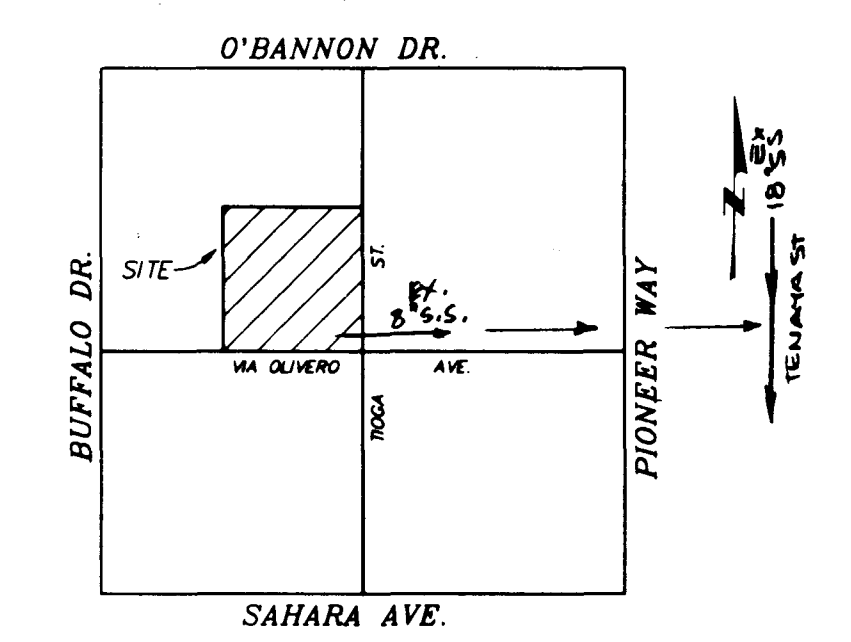
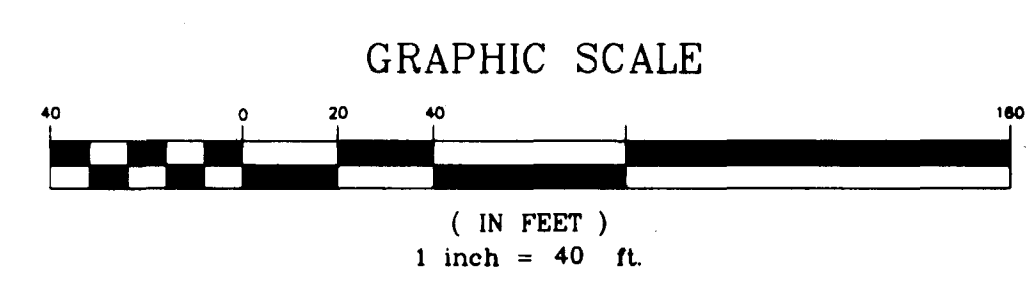


LEGEND:

PROPOSED	EXISTING	DESCRIPTION
●	○	GATE V. LVE
●	○	CLEAN OUT
●	○	FIRE HYDRANT
●	○	MANHOLE
—○—	—○—	GAS LINE
—E—	—E—	ELECTRICAL LINE
—SS—	—SS—	SANITARY SEWER
—W—	—W—	WATER LINE
—SD—	—SD—	STORM LINE
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	CENTER LINE OF ROADWAY
R.O.W.		RIGHT-OF-WAY
SSCO.		SAN. SEWER CLEAN OUT
SSMH.		SAN. SEWER MANHOLE
ESMT.		EASEMENT
←E30		250W HPS
←E20		200W HPS



VICINITY MAP



GRADING NOTES:

- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER.
- EXISTING UTILITIES ARE LOCATED ON THE PLANS PER THE CITY OF LAS VEGAS REQUIREMENTS. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE UTILITIES NOT SHOWN ON THE PLANS, AND SHALL CONTACT THE APPROPRIATE UTILITY OR GOVERNMENT FOR THE EXACT LOCATION OF ALL UTILITIES.
- CONSTRUCTION TO BE PER UNIFORM STANDARD SPECIFICATIONS AND DRAWINGS, CLARK COUNTY AREA, NEVADA.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING AND PAVING SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGY, DATED 2/22/97 AND ANY ADDENDA THERETO.
- POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CITY OF LAS VEGAS.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

CITY OF LAS VEGAS SEWER NOTES:

- ALL 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, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLAN, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS 80 FT. R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12 IN. DIA. SIZE. CONNECTIONS TO 15 IN. OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18 IN. UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE OF NOT LESS THAN TEN FEET (10') ON EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
- 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 CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

PROJECT BENCHMARK:

THE BENCHMARK FOR THIS TOPOGRAPHY IS C.C.E.D. BENCH NO. 7C10-35WS, BEING A 2" X 2" PLATE IN FIRE HYDRANT BASE, ON SAHARA AVE. 150' EAST OF BUFFALO DR. NORTH SIDE.
 EL. = (NAD 88) (767.0354 M) (2516.52 FT.)

SEWER CONTRIBUTION RATE

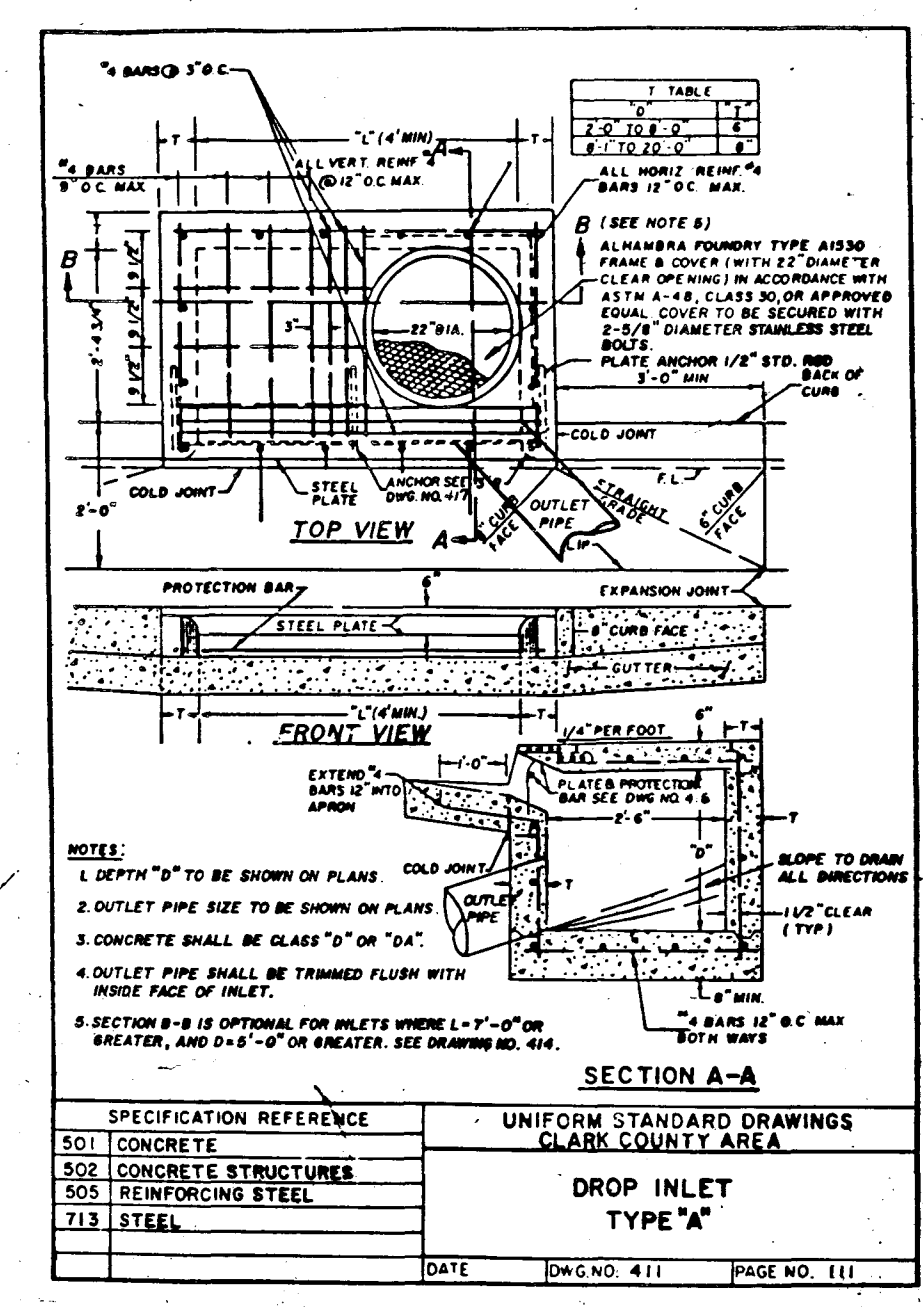
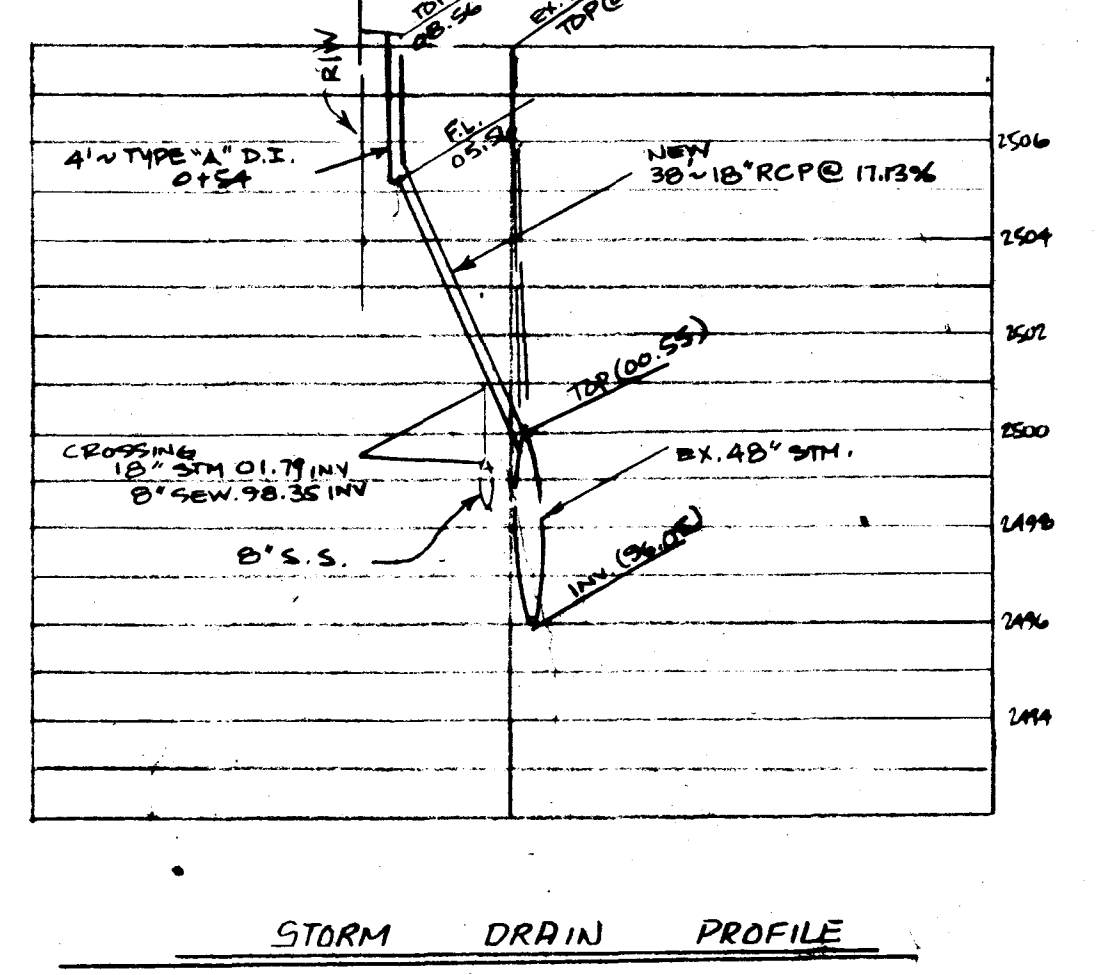
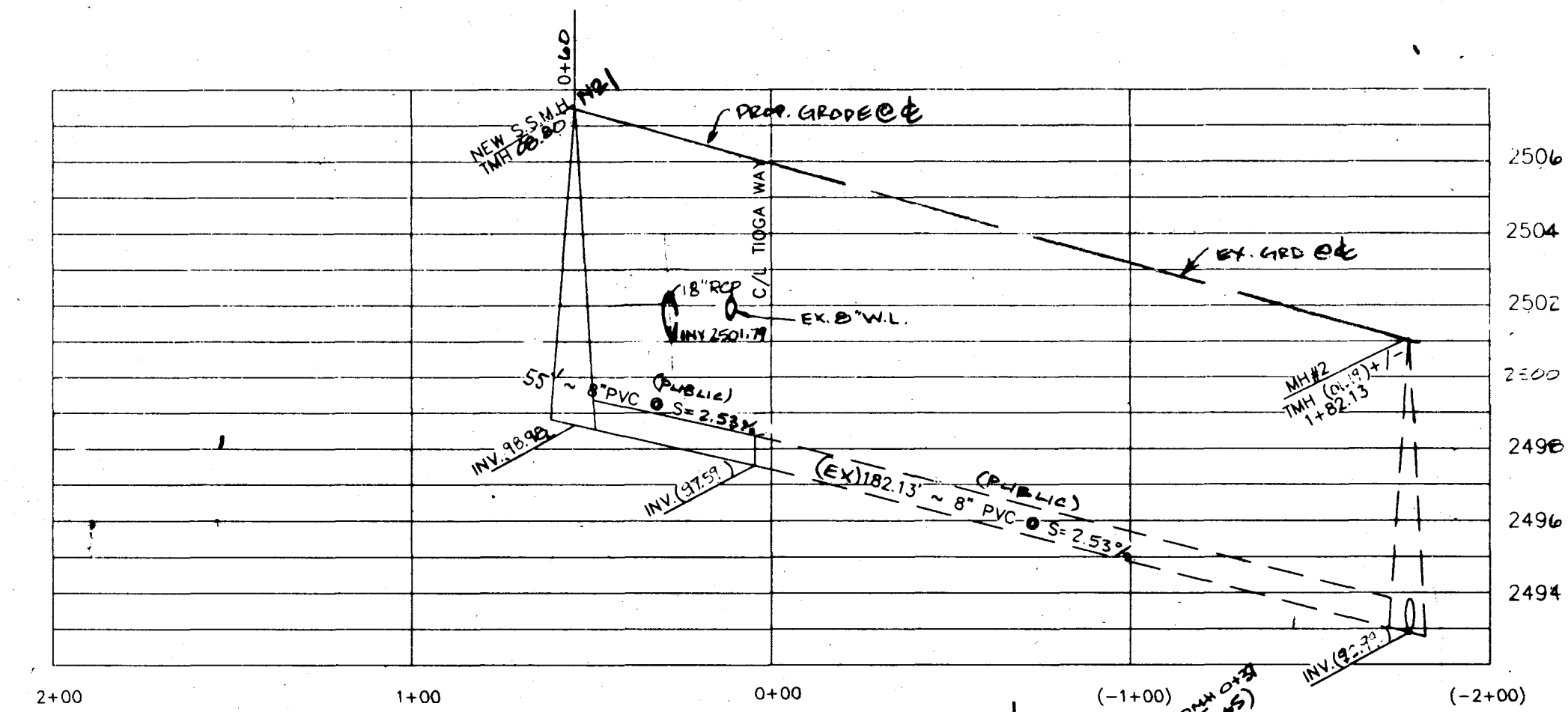
PEAK FLOW	350 GPD	(0.0009 MGD)
AVE FLOW	250 GPD	(0.0003 MGD)

BASIS OF BEARING:

N 87°52'27" E SOUTH LINE OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 21 SOUTH RANGE 60 EAST H.D.M. CLARK COUNTY, NEVADA PER P.M. FILE 62, PAGE 51.

ESTIMATED QUANTITIES

8" PVC SEWER	50 L.F.
SEWER MANHOLE	1 EA.



NO.	DESCRIPTION	BY	DATE	APPR.

REVISIONS

107-V2669

14/1/96

SCALE (H): 1" = 40'
 SCALE (V): 1" = 40'
 DES. BY: JCS
 DWN. BY: DLV
 CHK. BY: [Signature]
 DATE: 08/96
 PROJECT NO. 1026PRO
 FILE NO. [Blank]
 SHEET 3 OF 6

SEWER PLAN & PROFILE

VIA OLIVERO / TOGO

CITY OF LAS VEGAS NEVADA

C.S.A. ENGINEERING SERVICES
 4045 S. EASTMAN AVE. #4
 LAS VEGAS, NEVADA 89115
 (702) 887-1888

Avoid cutting underground utility lines. It's costly. Call before you Dig. 1-800-227-2600 UNDERGROUND SERVICE (USA)

