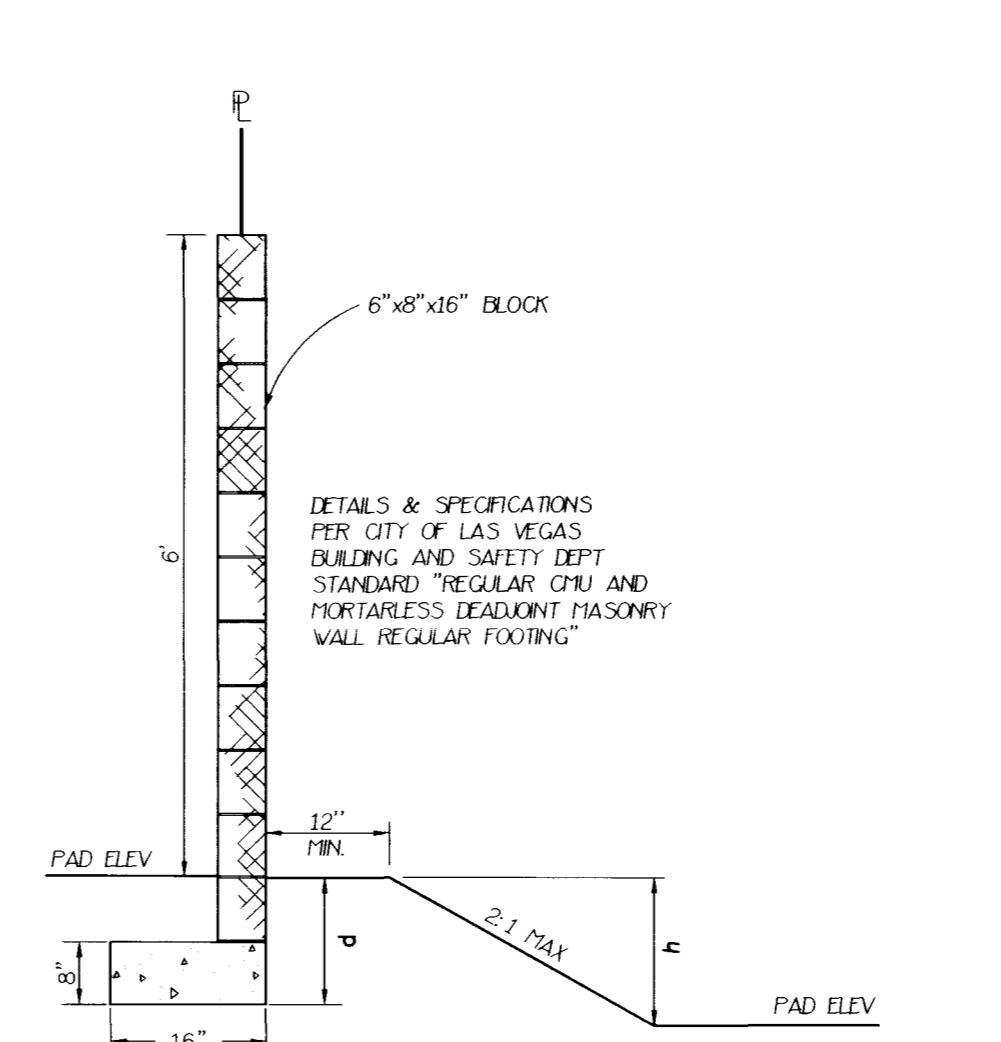
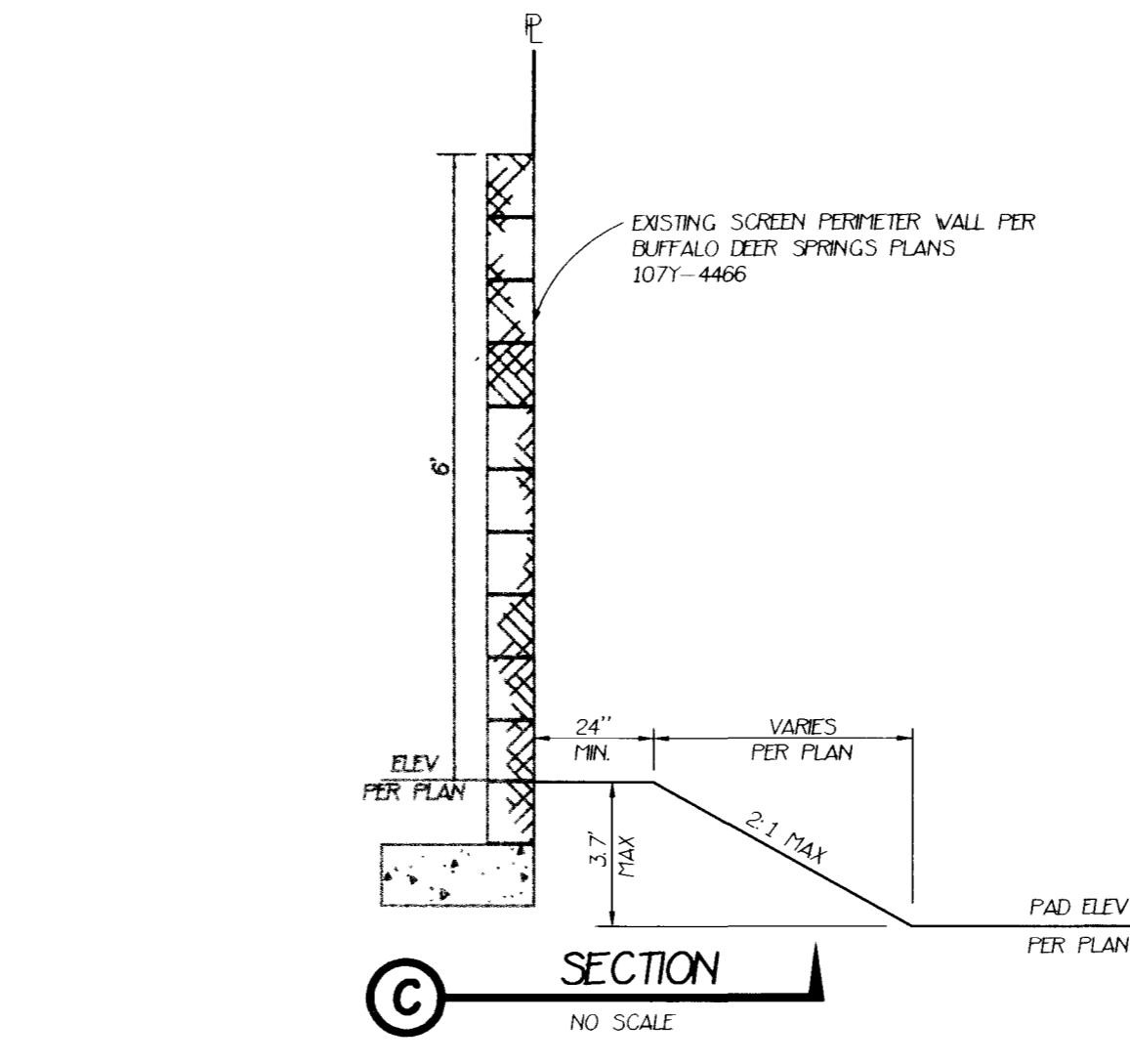
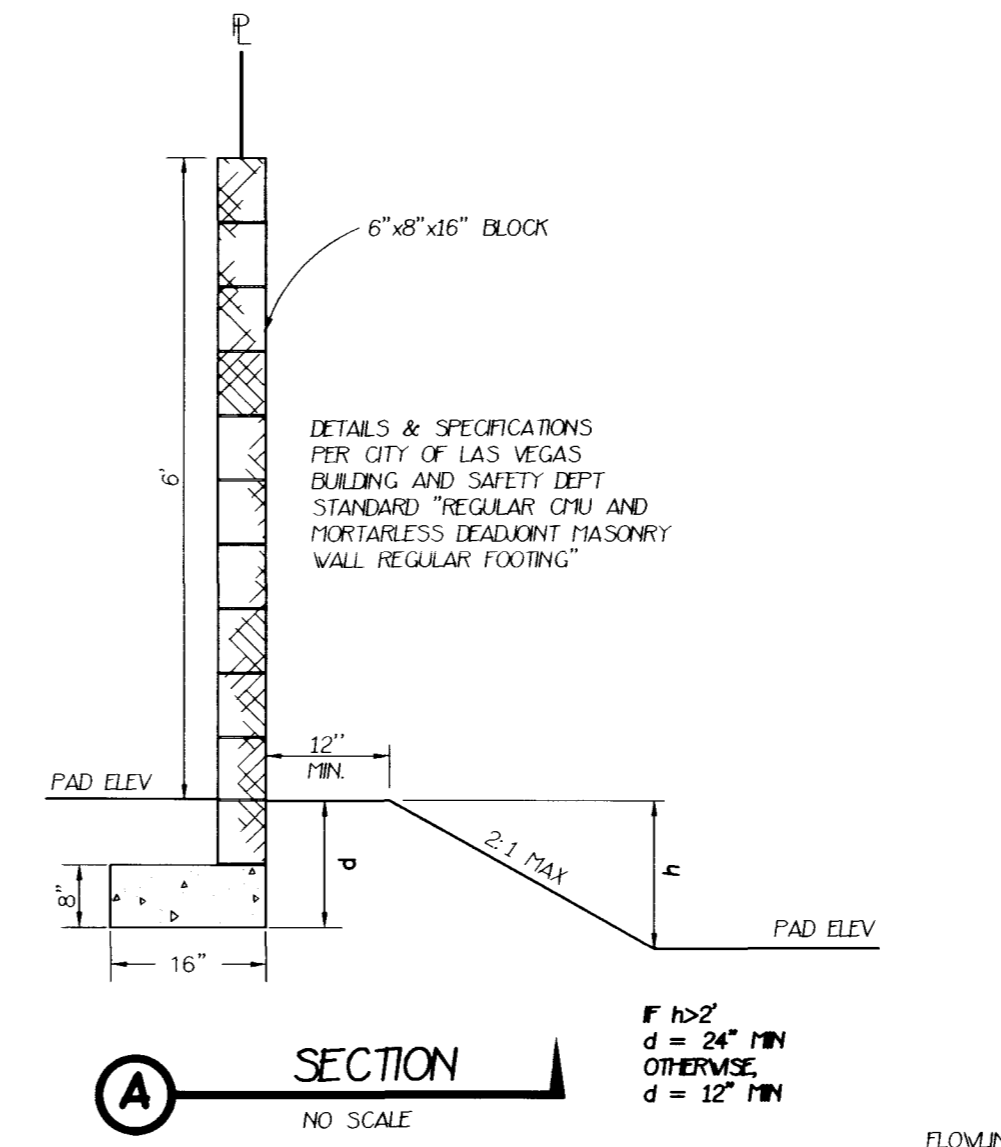
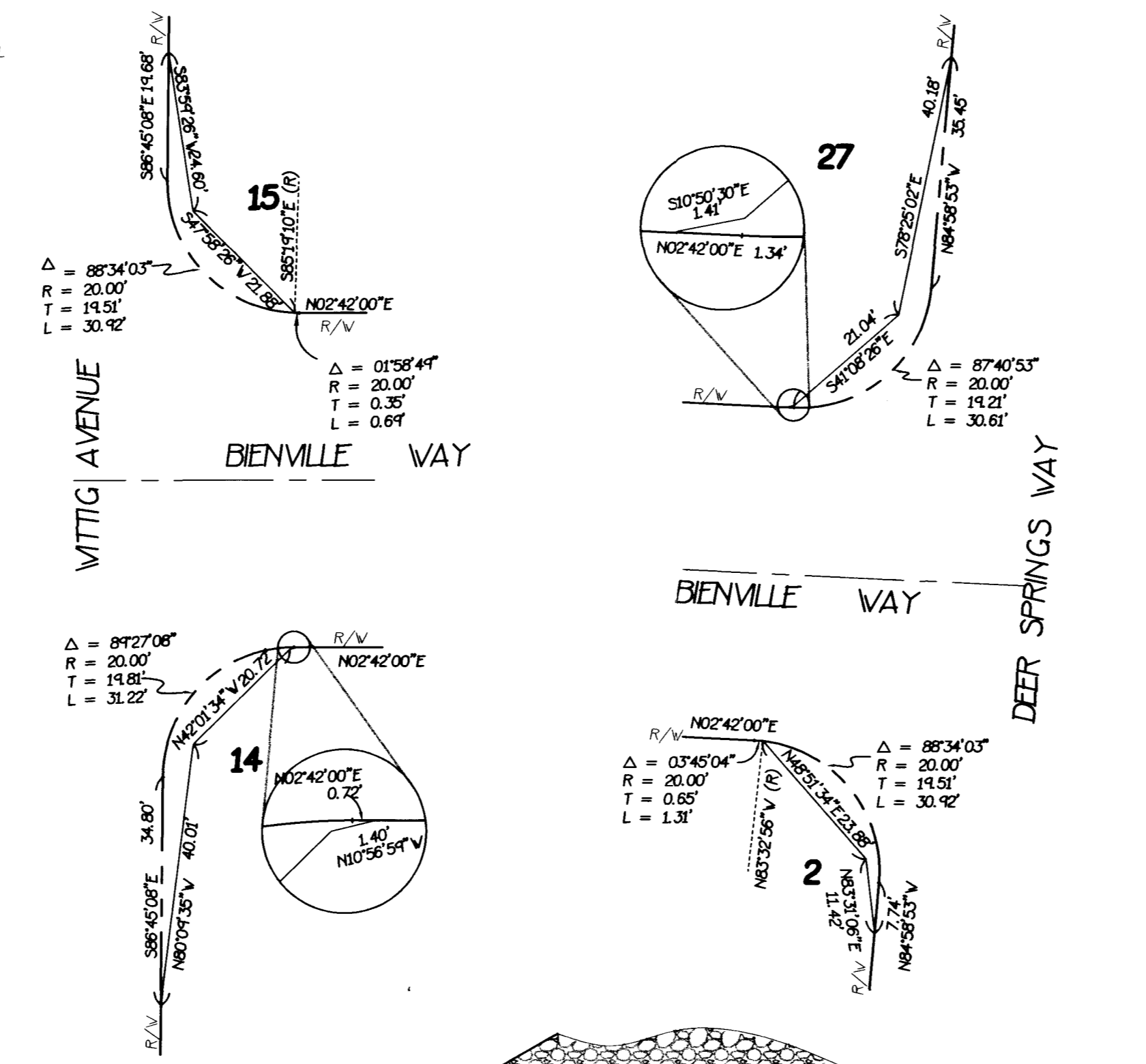
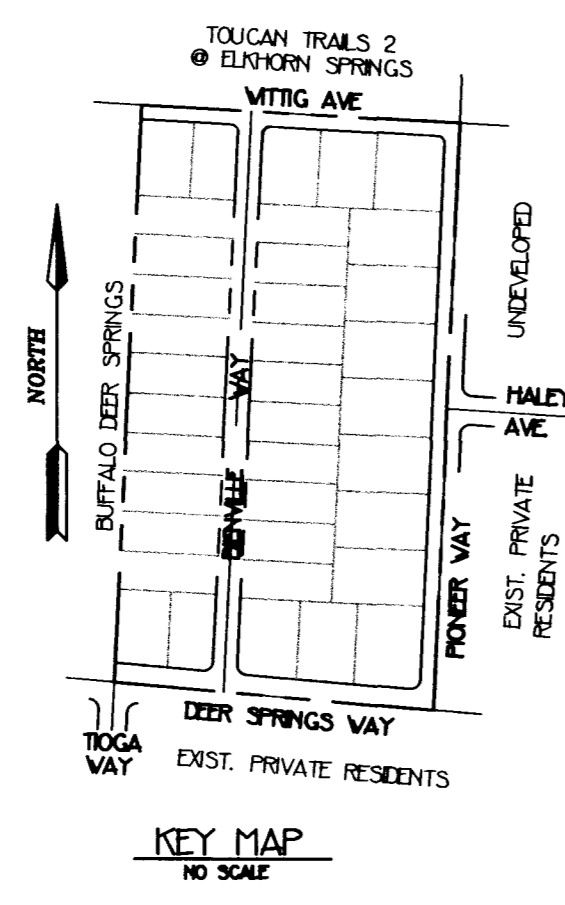
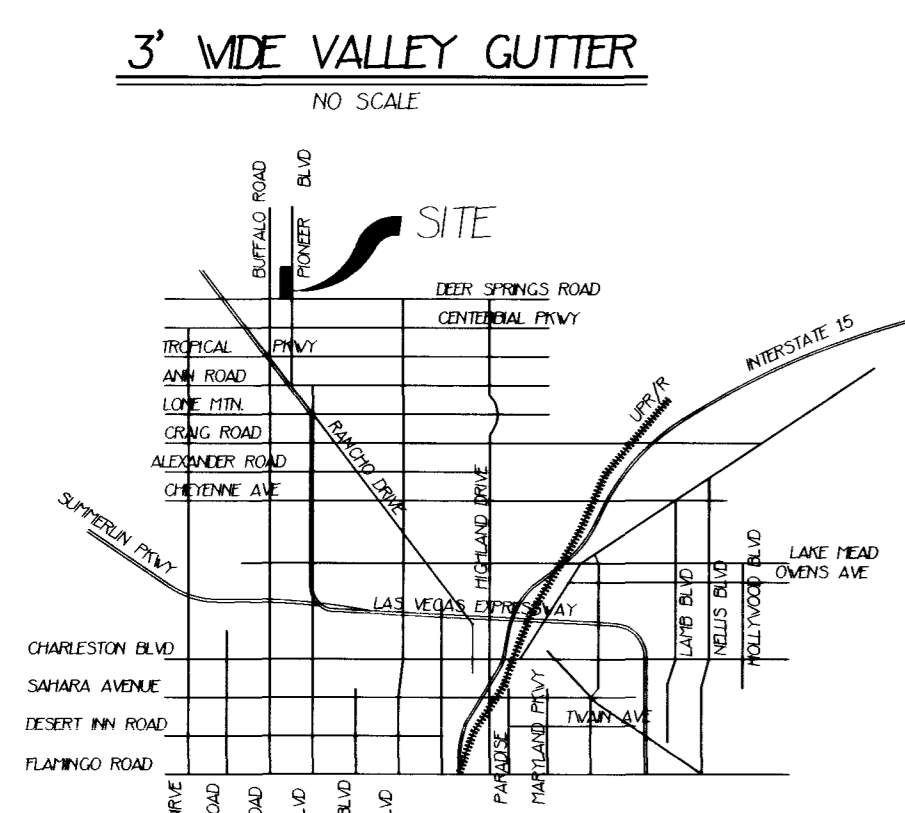
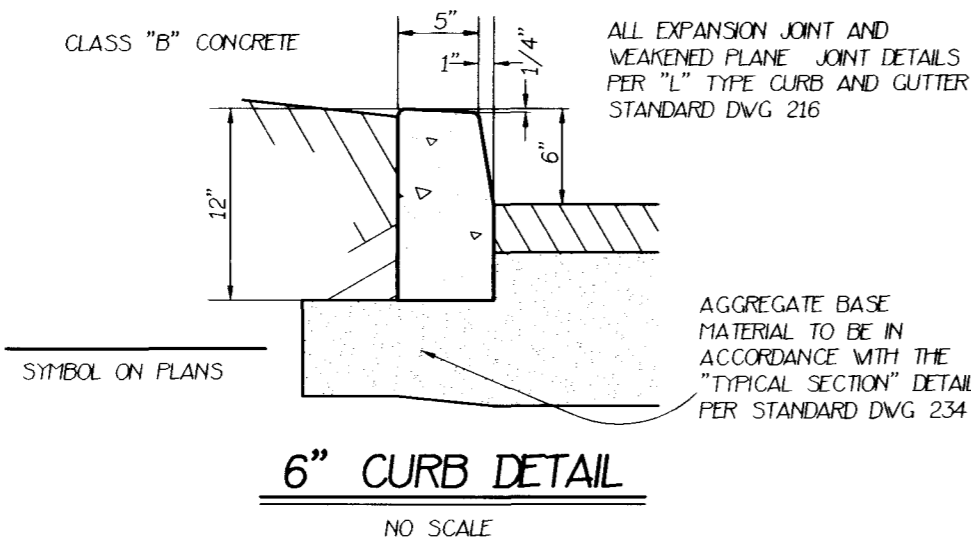
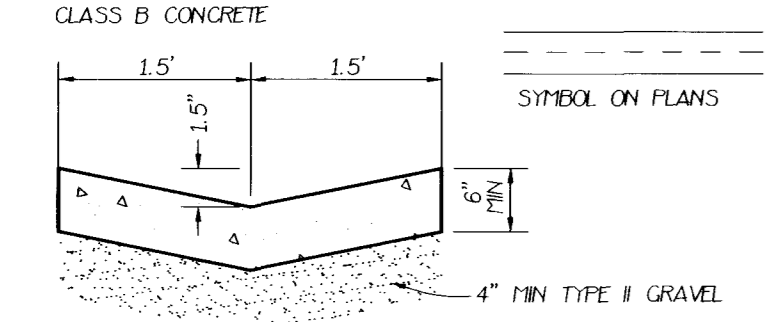
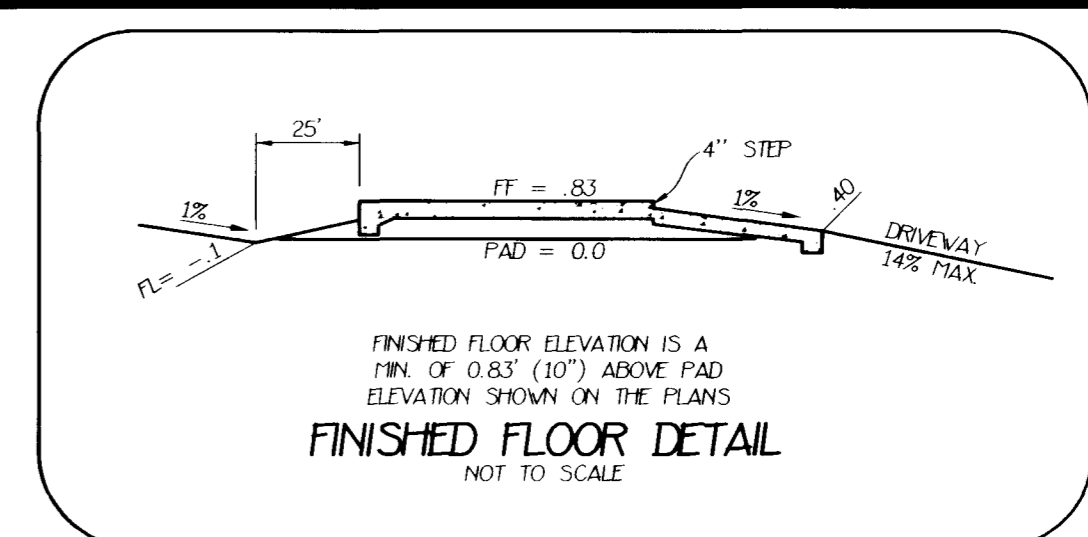
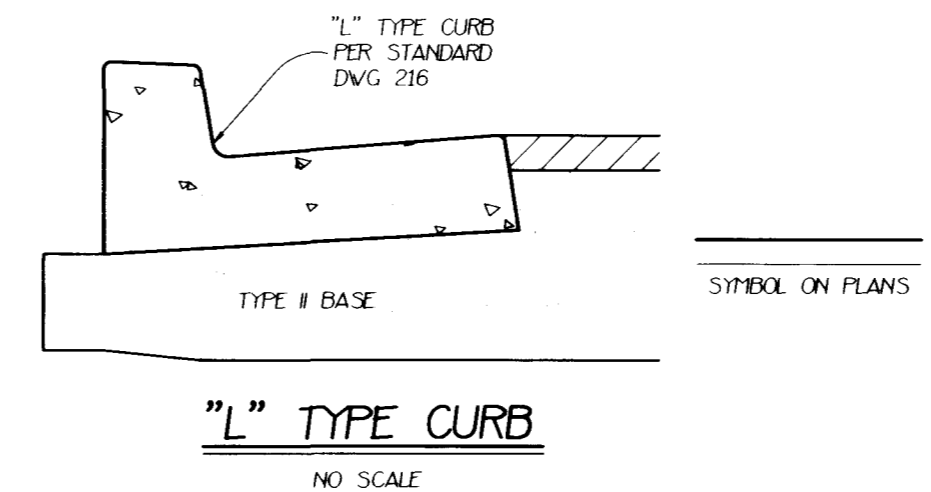
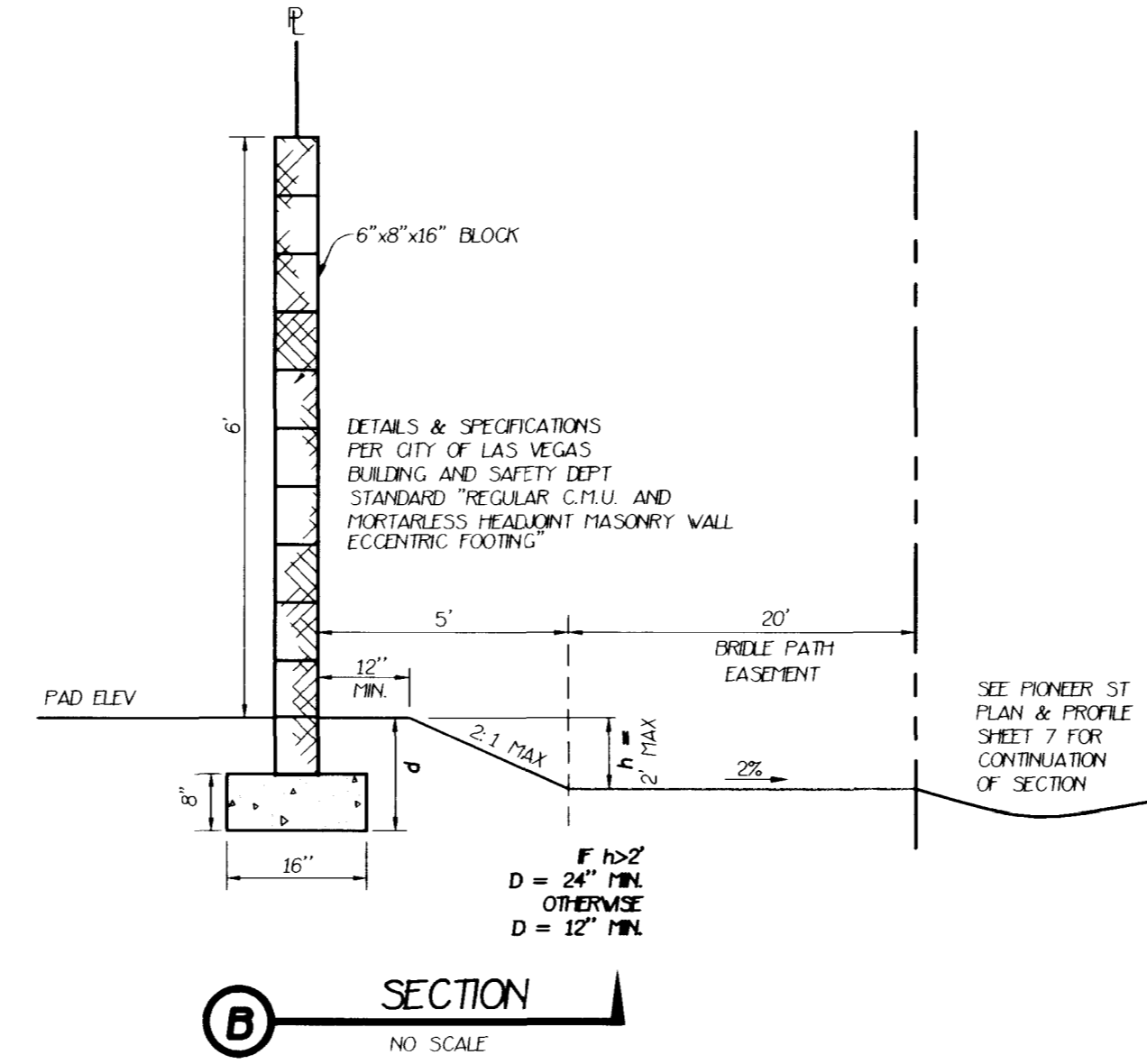
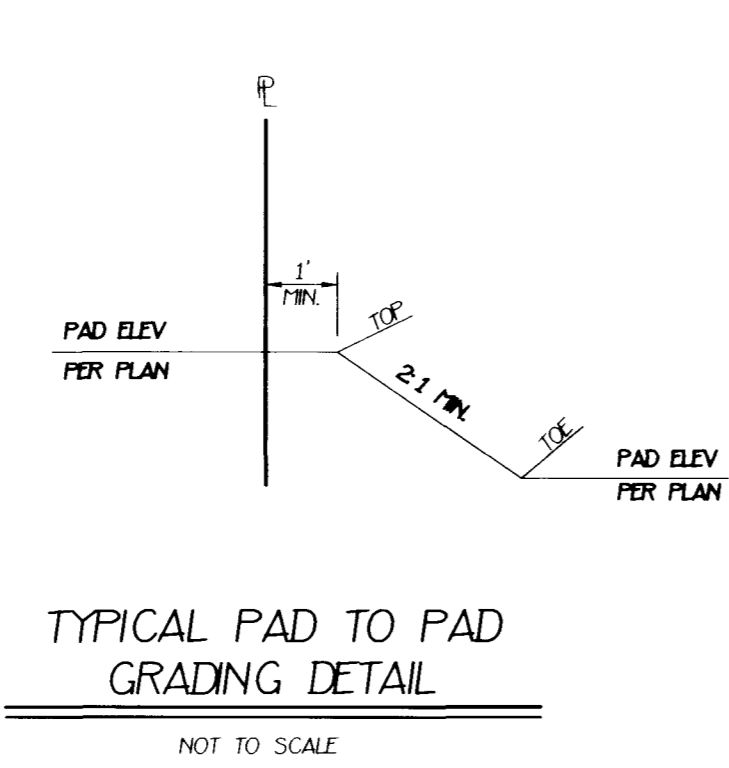


LEGEND

FINISH GROUND ELEV	
EXIST FINISH GROUND	
FLOW LINE ELEV	
EXIST FLOW LINE	
TOP BACK OF CURB	
EXIST TOP BACK OF CURB	
NATURAL GROUND	
FINISH GROUND CONTOUR 1' INTERVAL	
FINISH GROUND CONTOUR 5' INTERVAL	
EXIST GROUND CONTOUR 1' INTERVAL	
EXIST GROUND CONTOUR 5' INTERVAL	
FINISH FLOOR ELEV	FF 10.2
RATE OF SLOPE	1%
DIRECTION OF DRAINAGE	
L' TYPE CURB & GUTTER	
6" CURB	
EXIST CURB	
STORMDRAIN	
EXIST STORMDRAIN	
SAWCUT LINE	

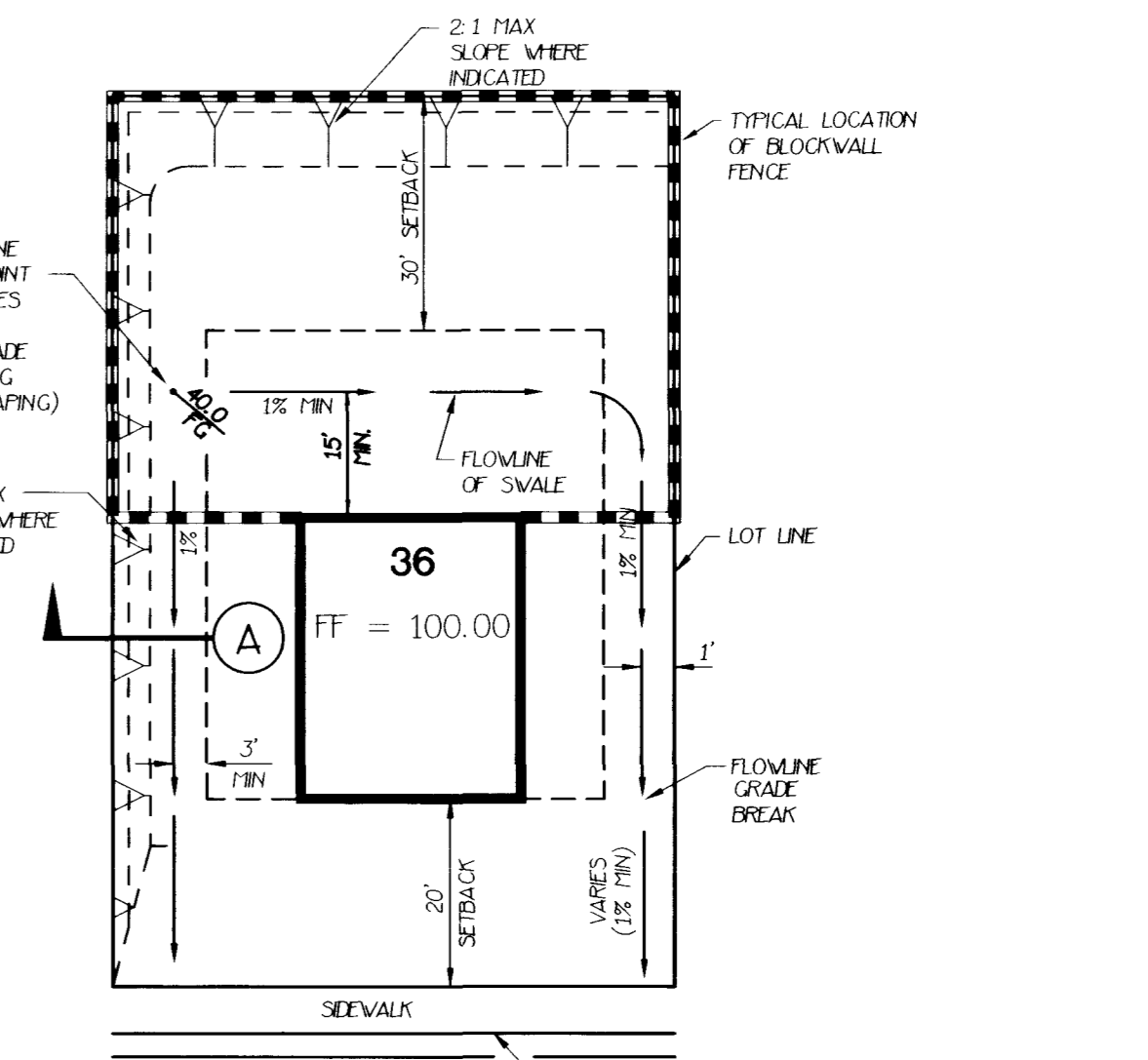
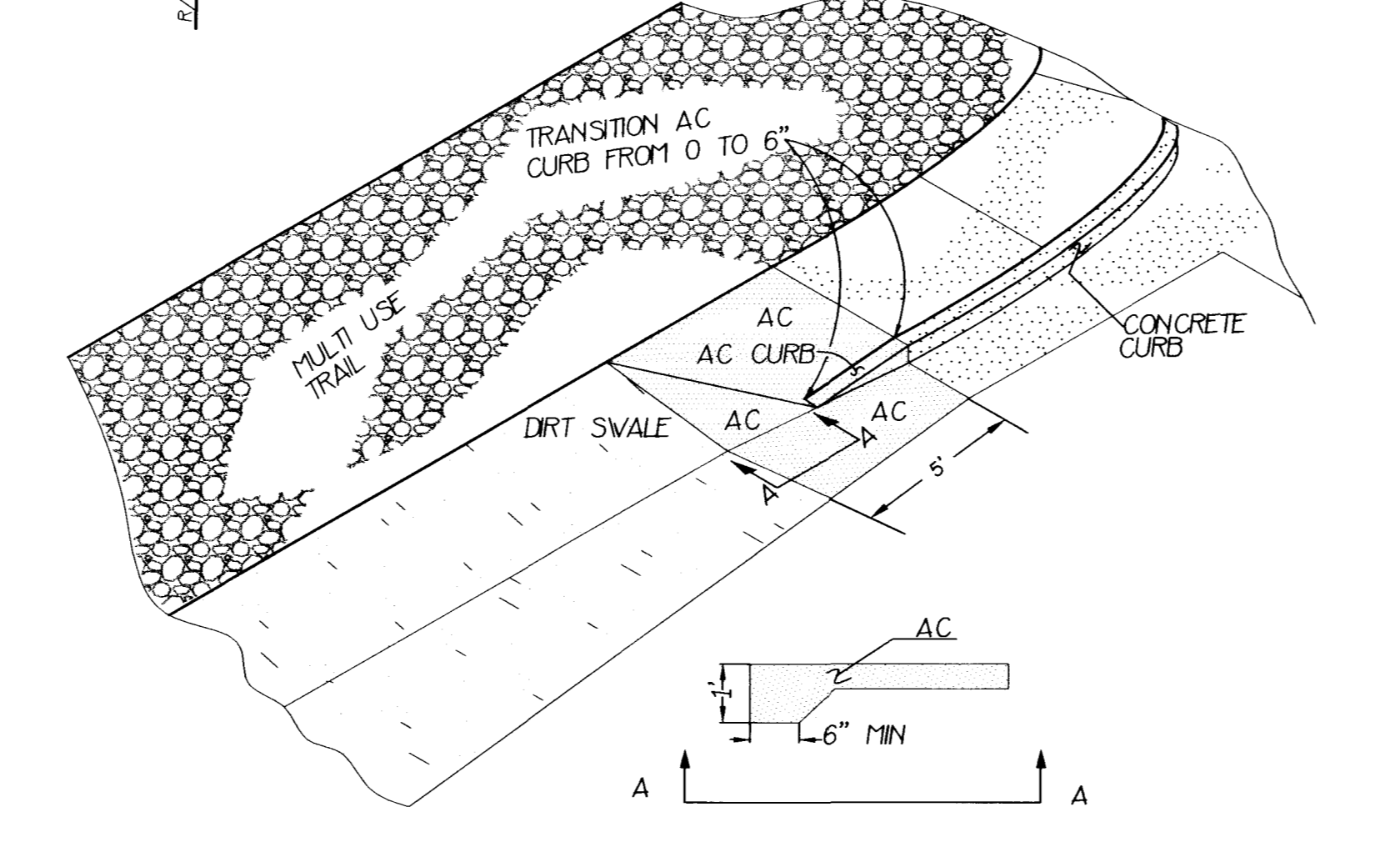
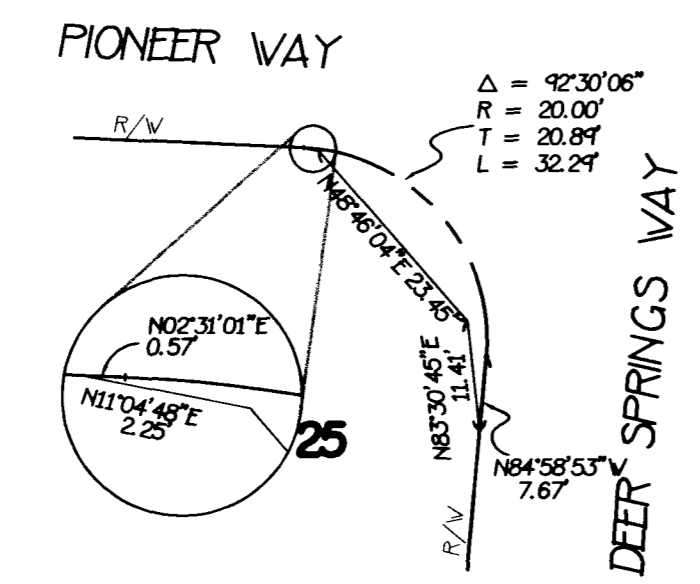
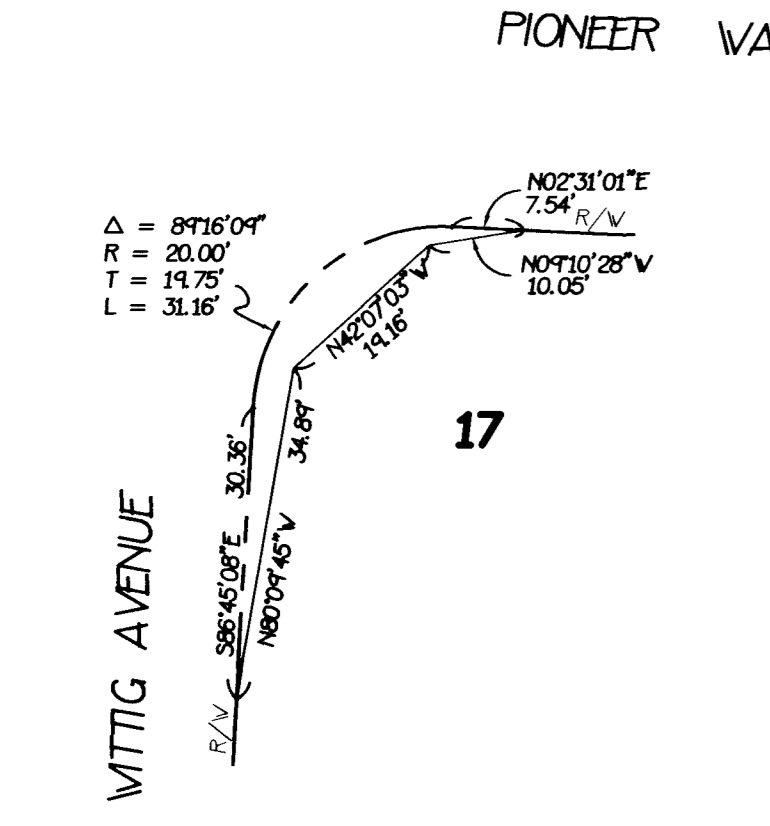
ABBREVIATIONS

FG	FINISH GRADE
TBC	TOP BACK OF CURB
CB	GRADE BREAK
LP/HIP	LOW/HIGH POINT
TW	TOP OF WALL
TF	TOP OF FOOTING
DBF	BOTTOM BLDG FOOTING
DMF	BOTTOM FLOOR WALL FOOTING
FGB	FG @ BUILDING
FGW	FG @ WALL
FF	FINISH FLOOR
FL	FLOW LINE
NG	NATURAL GROUND
(TF)	EXIST TOP OF FOOTING
(TW)	EXIST TOP OF WALL
SMR	SEWER
VIN	WATER
STRN	STORM
CO	CLEANOUT



- GRADING NOTES**
- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
 - CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
 - THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATION BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OWNER TO PROVIDE THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
 - CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

A. PAVEMENT AREA SUBGRADE	A. PAVEMENT AREA SUBGRADE
B. ENGINEERED FILL	B. ENGINEERED FILL
- VERTICAL COMPACTION
- | | |
|---------------------------|--|
| A. PAVEMENT AREA SUBGRADE | +0.0' to -0.1' AS INDICATED ON PLAN |
| B. ENGINEERED FILL | +0.1' to -0.1' MINIMUM OF 90% OR AS SHOWN ON PLANS |
- COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE AND COPIES OF TEST RESULTS WILL PROVIDED TO THE CITY.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
 - THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
 - THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
 - IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.



NOTE:
CornerStone Engineering Incorporated ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS, SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED THE CONTRACTOR IS TO NOTIFY THE ENGINEER OR WORK IN WRITING, IMMEDIATELY.

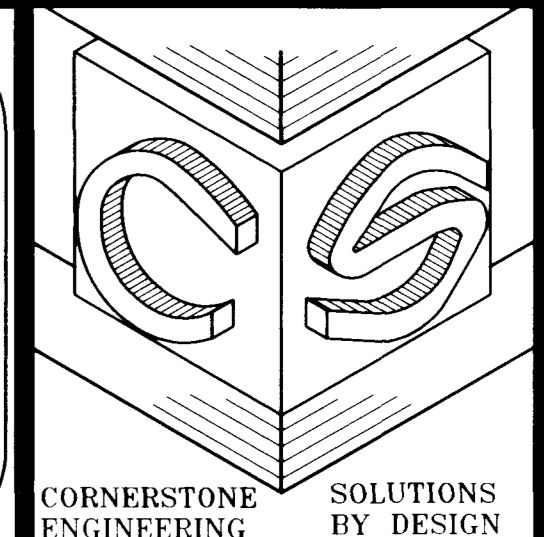
BENCH MARK
DESCRIPTION: CLARK COUNTY GIS BRASS CAP # 805-19-60
STATION: ILV0155V5
LOCATION: NE CORNER OF ELKHORN ROAD AND BUFFALO DRIVE
ELEVATION: NAVD 88 DATUM
ELEV. = 2412.96
METERS = 735.4717
CONVERSION: 1 METER * (3937/1200) = 1 U.S. SURVEY FOOT

REVISION	REVISION DATE	APPROVAL DATE	BY	COMMENTS

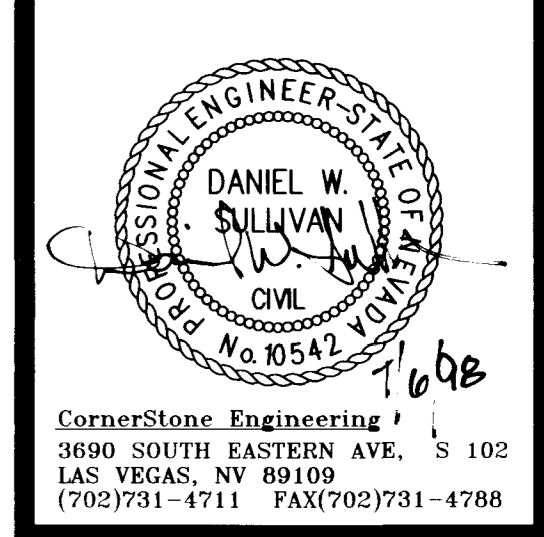
NOTICE!
EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

Call BEFORE YOU Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

CONTRACTOR IS RESPONSIBLE TO VERIFY THESE QUANTITIES FOR THEIR PURPOSES OF BIDDING. THE QUANTITIES SHOWN ARE AN ESTIMATE FOR BIDDING PURPOSES ONLY.



CORNERSTONE ENGINEERING SOLUTIONS BY DESIGN

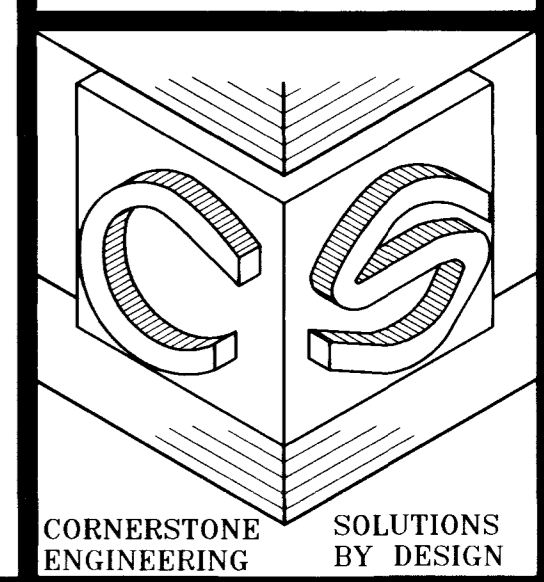


CornerStone Engineering
3890 SOUTH EASTERN AVE. S 102
LAS VEGAS, NV 89109
(702)731-4711 FAX(702)731-4788

DEER SPRINGS EAST
DETAIL SHEET
CITY OF LAS VEGAS

JOB NUMBER: 175-00
DATE: 7-6-98
APPROVAL DATE: 175-DETAIL.DWG
FILENAME: 175-DETAIL.DWG
XREF FILES:

SHEET 5 OF 9



CORNERSTONE ENGINEERING SOLUTIONS BY DESIGN

