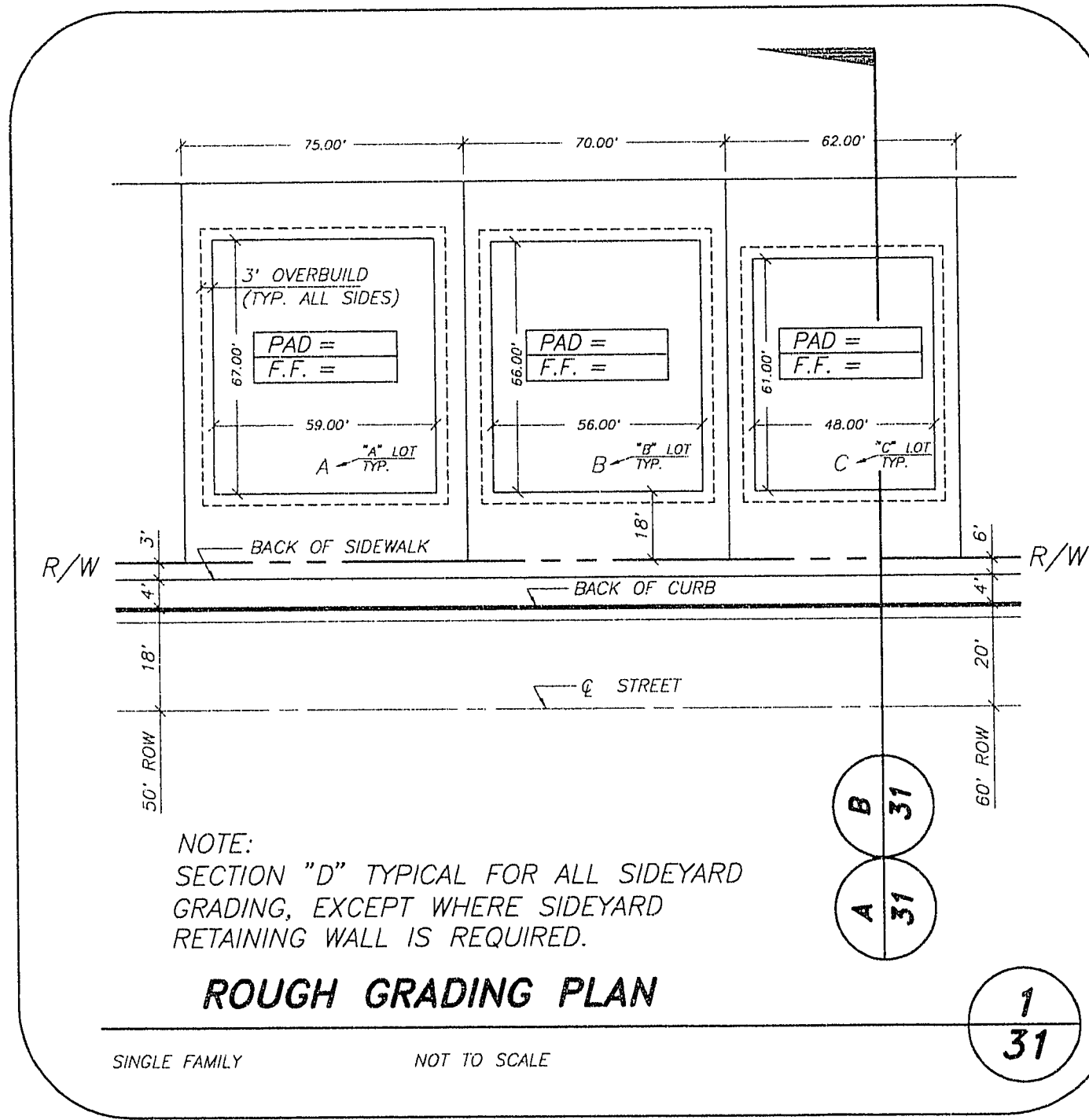
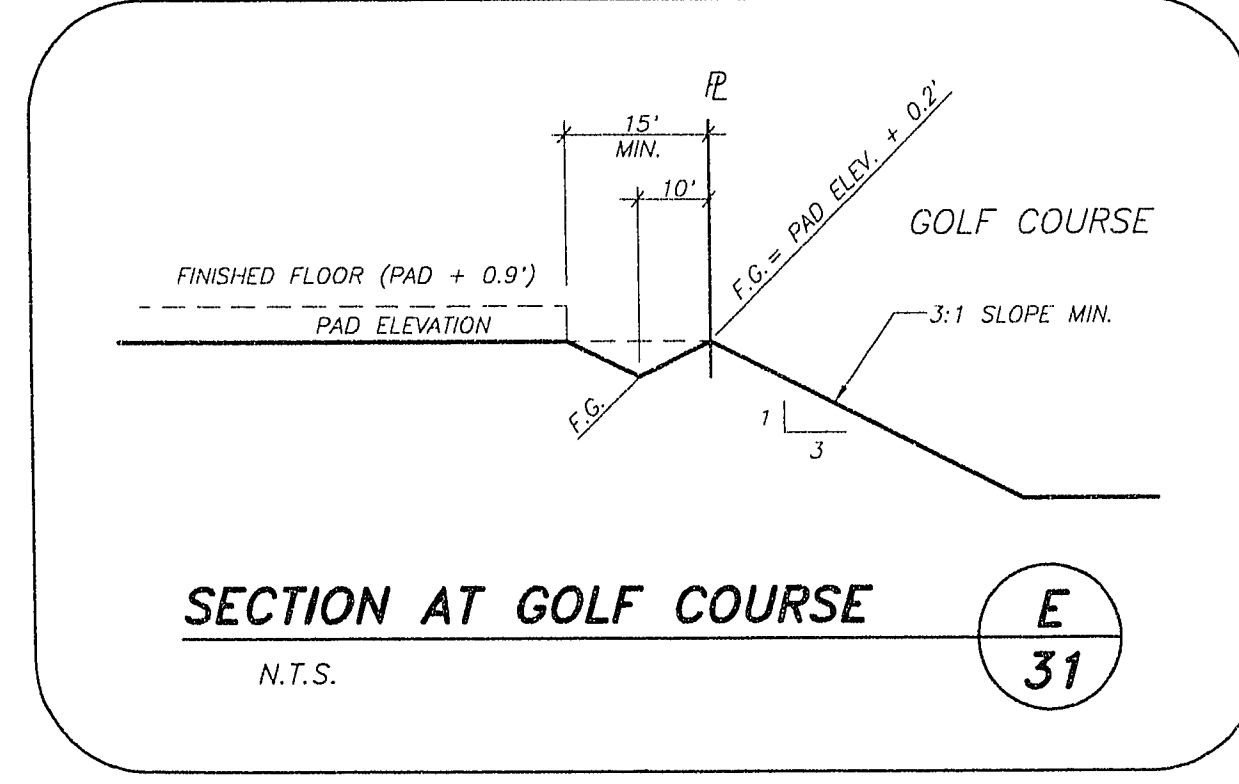
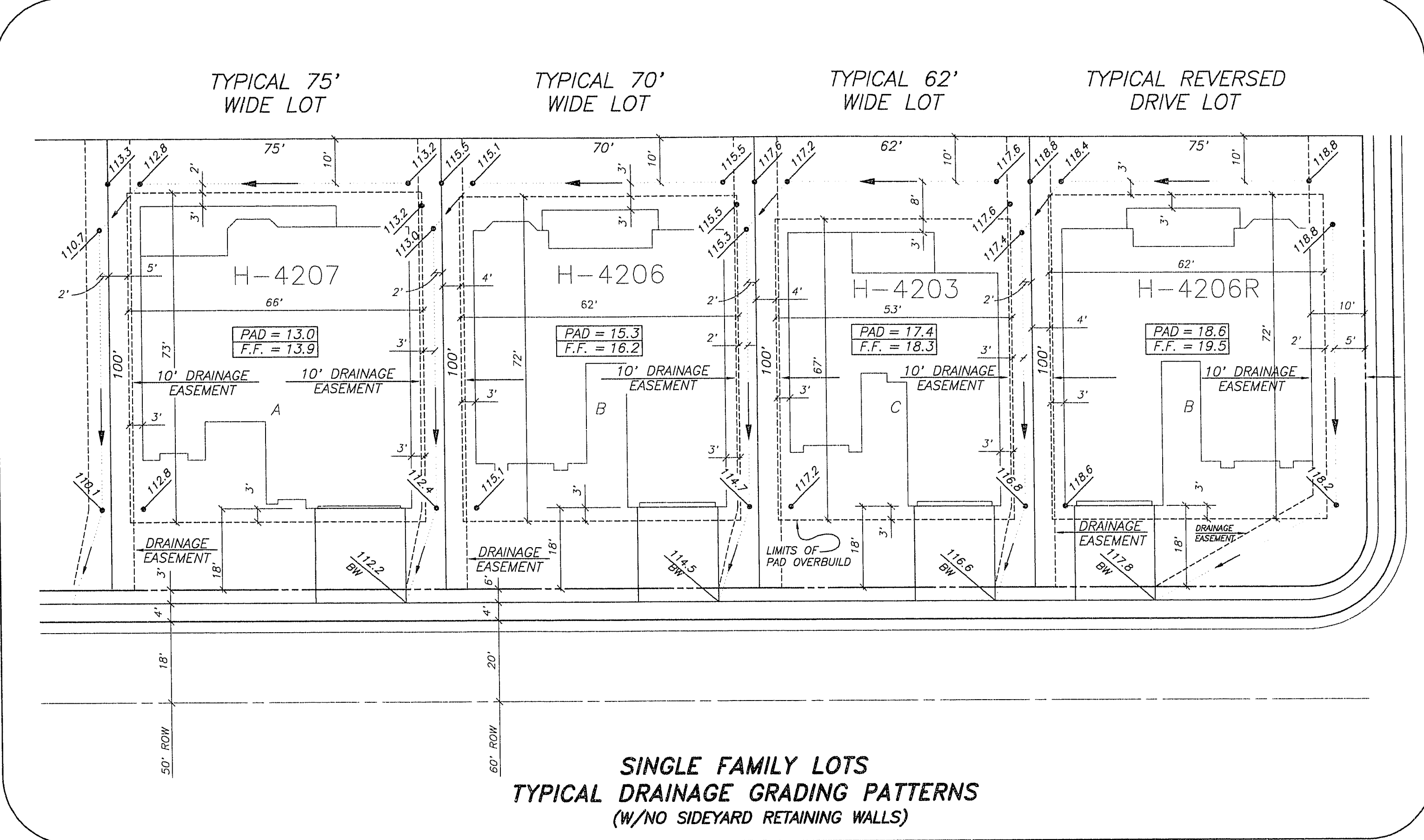


JOB NO. 701-240 PLOTTED: 05/26/95 1:09 pm DRAWING: C:\471 GRADES\DETAILS\DET-31 BY: esp



- ### GRADING NOTES
- INDICATED GRADES ARE FINISHED GRADES.
  - THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINE AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND ROUGH GRADING DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
  - CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
  - ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.1' OF THE PAD ELEVATIONS SHOWN ON THE PLANS. WHEN GRADING IS COMPLETE PER THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE LOTS CAN BE INSPECTED. AT THAT TIME THE ENGINEER SHALL ALSO DECIDE IF ANY ADDITIONAL DITCHES OR BERMS ARE REQUIRED. THE CONTRACTOR IS REQUESTED NOT TO REMOVE ANY OF HIS ROUGH GRADING EQUIPMENT UNTIL HE RECEIVES GRADING APPROVAL FROM THE ENGINEER.
  - SOILS REPORT BY WESTERN TECHNOLOGIES, INC. PROJECT NO. 4124JS437 DATED APRIL 6, 1994.  
"CLEARING AND GRUBBING OPERATIONS WILL RESULT IN SOME MATERIAL VOLUME CHANGES. EXCAVATION AND RECOMPACTION OF THE ON-SITE SOILS WILL RESULT IN SHRINKAGE LOSSES. BASED ON OUR KNOWLEDGE OF THE SOILS IN THE SITE VICINITY AND THE MATERIALS ENCOUNTERED IN THE EXPLORATIONS, WE ESTIMATE THAT A SHRINKAGE FACTOR OF APPROXIMATELY 5 TO 10 PERCENT WOULD BE APPLICABLE FOR MEDIUM DENSE TO VERY DENSE NATURAL SOILS AT THIS SITE. AS AN EXAMPLE, A SHRINKAGE FACTOR OF APPROXIMATELY 10 PERCENT WOULD MEAN IT WOULD REQUIRE 1.10 CUBIC YARDS OF EXCAVATED MATERIAL TO EQUAL 1.0 CUBIC YARD OF PROPERLY COMPACTED FILL. SUBSIDENCE OF THE SUBGRADE WHERE SOILS ARE SCARIFIED, WETTED AND RECOMPACTED WILL BE ON THE ORDER OF 0.1 FOOT."
- THE ABOVE QUOTATION IS FROM PAGE 14 OF THE REPORT UNDER MATERIAL VOLUME CHANGES, SECTION 5.4.3
6. EARTH QUANTITIES:
- EXCAVATION = 136,624 C.Y.  
FILL = 193,676 C.Y.
- A) THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
- B) THE ABOVE QUANTITIES DO NOT REFLECT USING TYPE 1 GRAVEL BASE MATERIAL FOR STREET SECTIONS.
- C) THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.
- SEE NOTE 2 ON SECTION B

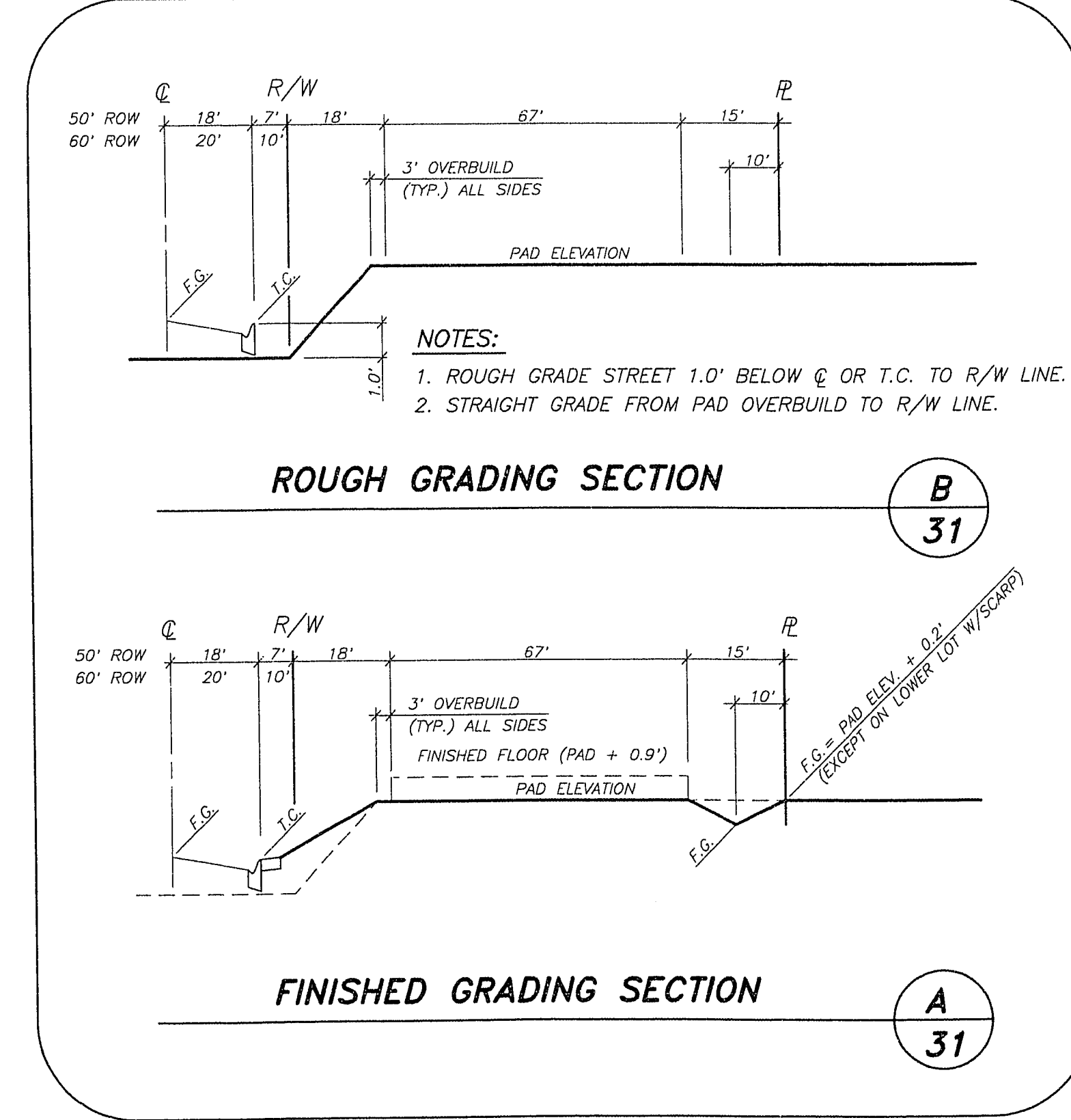
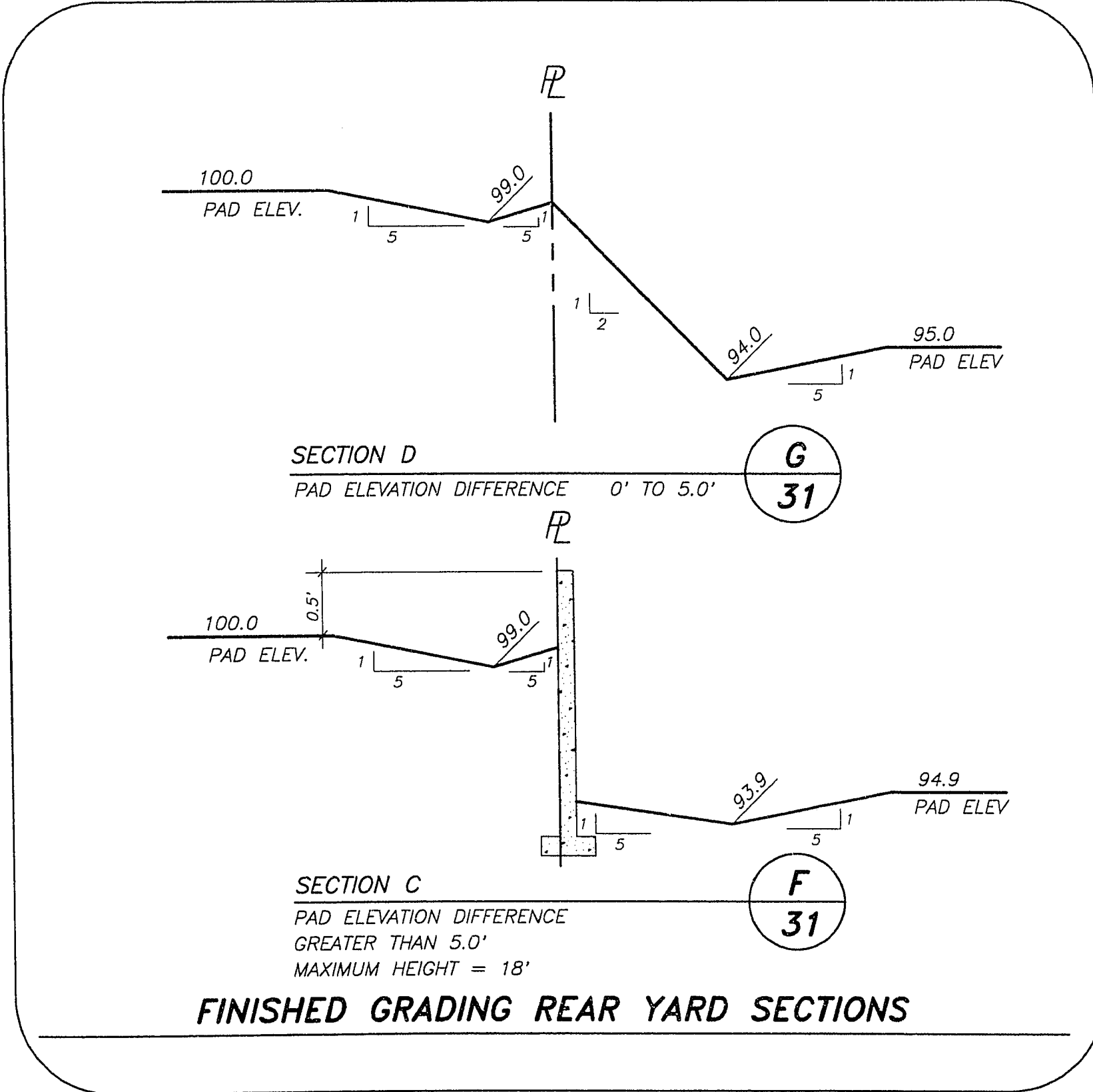
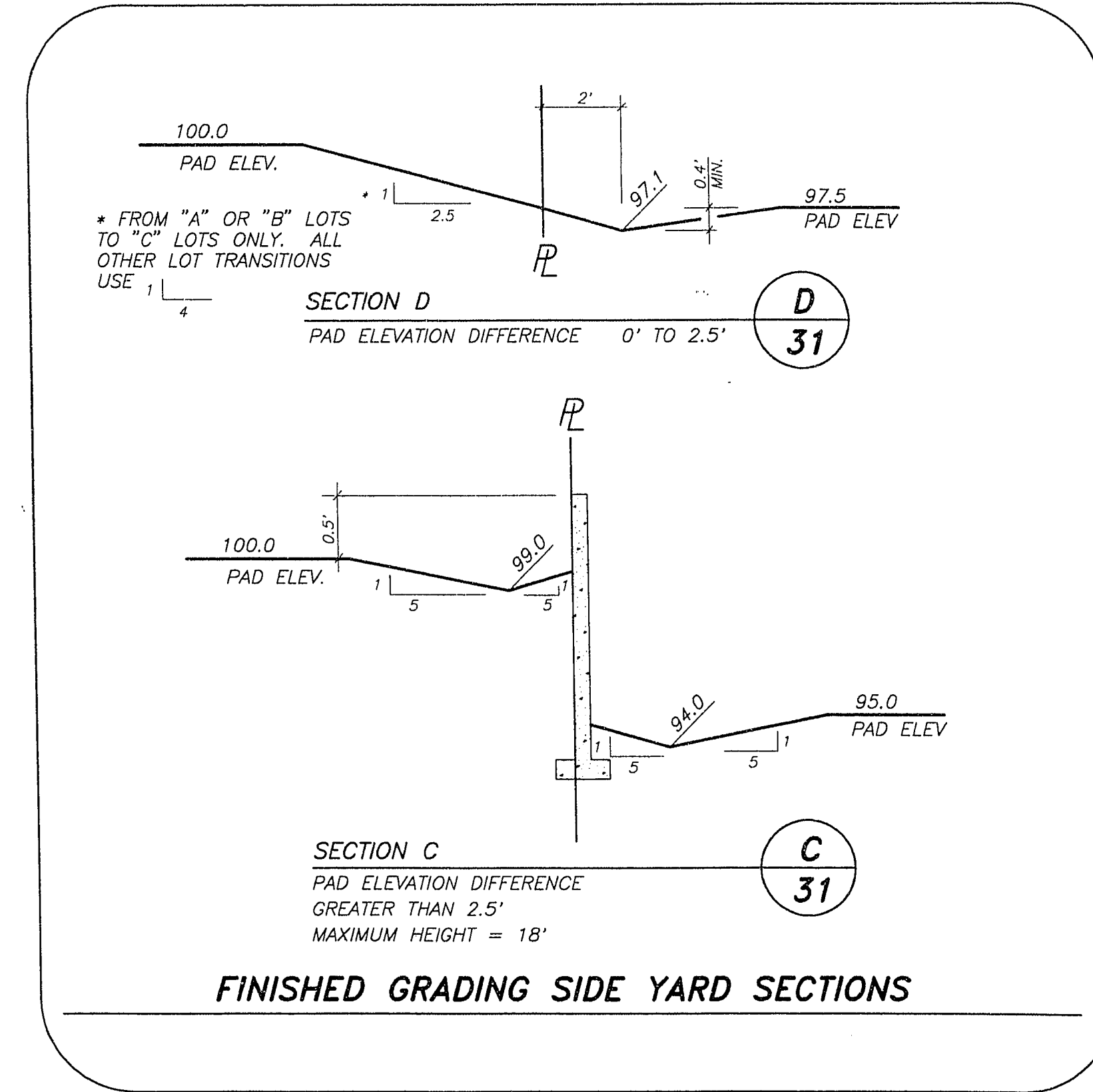


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UNDERGROUND SERVICE (USA)

### BENCHMARKS

C.L.V. BM. STA. 0LV00-18SEE6  
RIVET & PLATE IN TOP OF CURB, N.E. RETURN OF  
DEL WEBB BLVD. & LAKE MEAD BLVD.  
ELEVATION: 2618.318' NGVD29  
ELEVATION: 798.8092m NAVD88

PROJECT BENCHMARK: BRASS CAP IN IRON PIPE,  
102' NORTH AND 64' WEST OF THE INTERSECTION  
OF SUN CITY BLVD. AND THOMAS W. RYAN BLVD.,  
N 532,694.700, E 577,451.546  
ELEVATION: 2851.66



RECOMMENDED BY: **G.C. WALLACE, INC.**  
Engineering/Architecture  
1555 SOUTH RANCHO BLVD./LAS VEGAS, NEVADA 89106

DATE: 10-11-68  
SHEET: 31 OF 34 SHEETS

DEL WEBB COMMUNITIES, INC.  
SUN CITY LAS VEGAS UNIT NO. 47  
GRADING DETAILS I