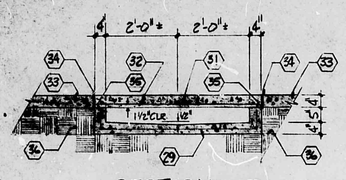
HYDROLOGY

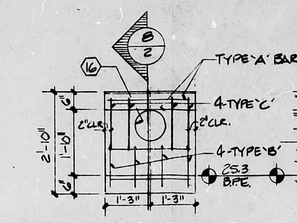
E18/D2A
1 PLAN

E18/D2a

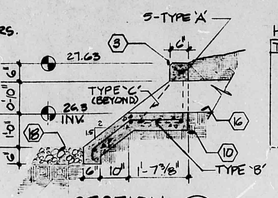
1 PLAN



SECTION 5/2
SCALE: 1/2" = 1'-0"



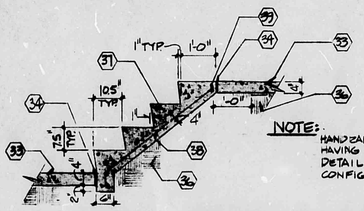
HEADWALL ELEVATION 7/2
SCALE: 1/2" = 1'-0"



SECTION 8/2
SCALE: 1/2" = 1'-0"

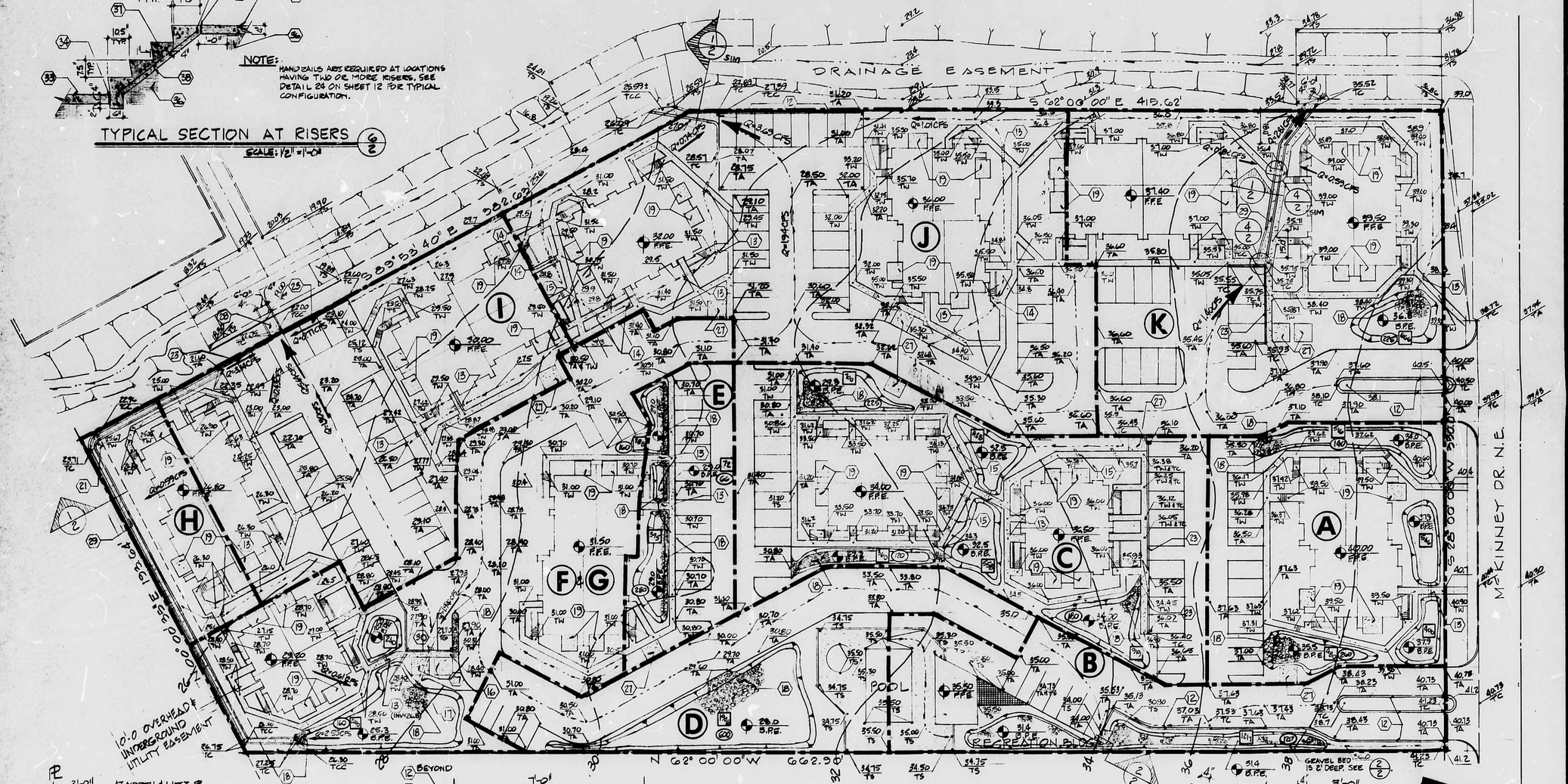
HEADWALL BAR SCHEDULE

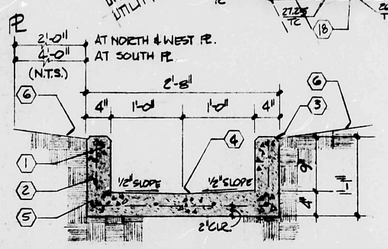
TYPE	SIZE	LENGTH
A	#5	2'-2" (STRAIGHT)
B	#5	1'-0" 1'-3"
C	#3	2'-0" 1'-9" 1'-9"



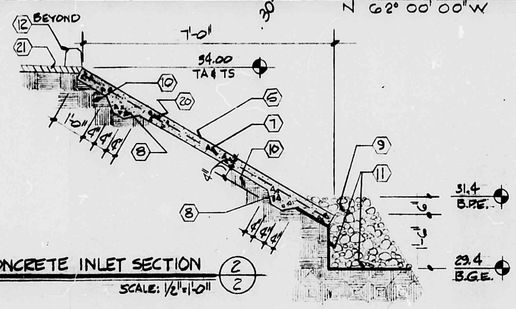
NOTE: HANDRAILS ARE REQUIRED AT LOCATIONS HAVING TWO OR MORE RISERS. SEE DETAIL 24 ON SHEET 12 FOR TYPICAL CONFIGURATION.

TYPICAL SECTION AT RISERS 6/2
SCALE: 1/2" = 1'-0"

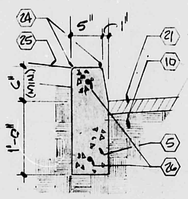




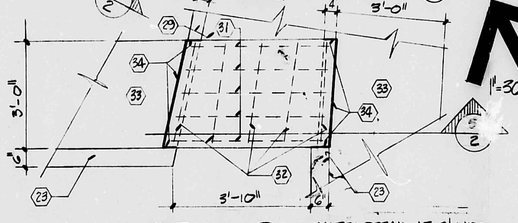
TYPICAL CHANNEL SECTION 1/2
SCALE: 1" = 1'-0"



CONCRETE INLET SECTION 2/2
SCALE: 1/2" = 1'-0"



DETAIL 3/2
SCALE: 1" = 1'-0"



DETAIL 4/2
SCALE: 1/2" = 1'-0"

NOTE: DETAIL AT 2' WIDE CHANNEL CROSSING IS SIMILAR.

NOTES

1. 6 - #4 rebar horizontal, continuous.
2. #4 "L" bar @ 16" o.c. (9" 2'-4" 9").
3. 3/4" chamfer at exposed edges.
4. Light broom finish. Slope channel per spot elevations on plan.
5. 3000 psi concrete with 6 - 7% air entrainment.
6. See plan for slope of ground or adjacent sidewalk.
7. 6 x 6: W2.9 x W2.9 mesh.
8. Shear key, full width of concrete pad.
9. 1 1/2" to 3/4" clean, well graded gravel.
10. Compacted subgrade, minimum 95% modified proctor.
11. Mirafi 140 or 140S fabric drainage liner. Install along bottom and up to B.P.E. along sides of pond prior to placement of gravel.
12. 6" x 6" extruded asphalt curb.
13. 8" galvanized CMP below sidewalk.
14. 6" galvanized CMP below sidewalk.
15. 4" galvanized CMP below sidewalk.
16. 10" galvanized CMP below sidewalk. Furnish and install reducer to connect 10" CMP to 11" O.D. rear outlet of curb inlet frame. (See Note 30).
17. Concrete headwall with rubbed finish. See elevation 7/2.
18. 6" thick gravel bed.
19. 4" thick patio slab. Slope 1/8"/ft. away from entry.
20. Light broom finish.
21. Asphalt paving.
22. Radius = 5' to centerline of channel.
23. Concrete curb. See Detail 3/2.
24. 3/4" radius.
25. Sloping ground or adjacent sidewalk. Install 1/2" asphalt impregnated expansion joint between curb & sidewalk.
26. 2 - #4 rebar, continuous.
27. 10' x 10' x 4" thick conc. slab w/ raised curb for trash enclosure. Slope slab per details on architectural drawings.
28. Concrete channel similar to section 1/2 with 14-#4's x 10' longitudinally (12 in bottom slab equally spaced, 1 at top of each curb) and #4 "U" bars at 16" o.c. (9" 6'-4" 9").
29. Concrete channel. Provide 1/2" expansion joints at 48' o.c. and control joints at 8' o.c. Longitudinal steel to be discontinuous at expansion joints.
30. Curb inlet frame and curb box with standard grate - NEENAH #R-3165 with 10" I.D. rear outlet.
31. 5-#5's longitudinal at 8" o.c.
32. 5-#4's transverse at 12" o.c.
33. 4" thick sidewalk on grade.
34. 1/2" asphalt impregnated expansion joint.
35. 15# felt bond breaker.
36. Compacted Subgrade, 90% modified proctor.
37. #4 nose bar at each riser.
38. 4-#4's, length as required for number of risers.
39. 2-#4's, same length as nose bars.

LEGEND

- EXISTING SPOT ELEVATION.
- NEW GROUND ELEVATION.
- TA — TOP OF ASPHALT.
- TC — TOP OF CURB.
- TCC — TOP OF CONCRETE CHANNEL.
- TG — TOP OF GRATE.
- TS — TOP OF SLAB.
- TW — TOP OF SIDEWALK.
- F.F.E. — FINISH FLOOR ELEVATION.
- B.P.E. — BOTTOM OF POND ELEVATION.
- B.G.E. — BOTTOM OF GRAVEL ELEVATION.
- SWALE.
- 5' WIDE CONC. SIDEWALK W/ BROOM FINISH — 7 1/2" CONC. RISERS, 10" TREAD. SEE 5/2
- 1 1/2" - 3/4" WELL GRADED, CLEAN GRAVEL.
- B.P.E. / B.P.E.+1.5' — PONDING AREA.
- 9/0 — MINIMUM POND AREA (SQ.FT.) AT B.P.E.
- 300 — MINIMUM AREA (SQ.FT.) OF 6" THICK GRAVEL BED.

DESIGN PROFESSIONALS, INC.
6400 UPTOWN BLVD. NE, ALBUQUERQUE, NM 87107
(505) 881-6626

PROJECT TITLE: ALBUQUERQUE NORTH 8 PLEX
5901 - 5981 and 6001 - 6095 McKINNEY DR. N.E.
ALBUQUERQUE, NEW MEXICO
for L.B. NELSON CORPORATION
6400 UPTOWN BLVD. N.E.
ALBUQUERQUE, NEW MEXICO

SHEET TITLE:
SITE GRADING PLAN

Drawn by: RHA Proj. No: 1948
Checked by: Date:

ARCHITECTS/ENGINEERS

DRAWING C 2 SHEET OF 4