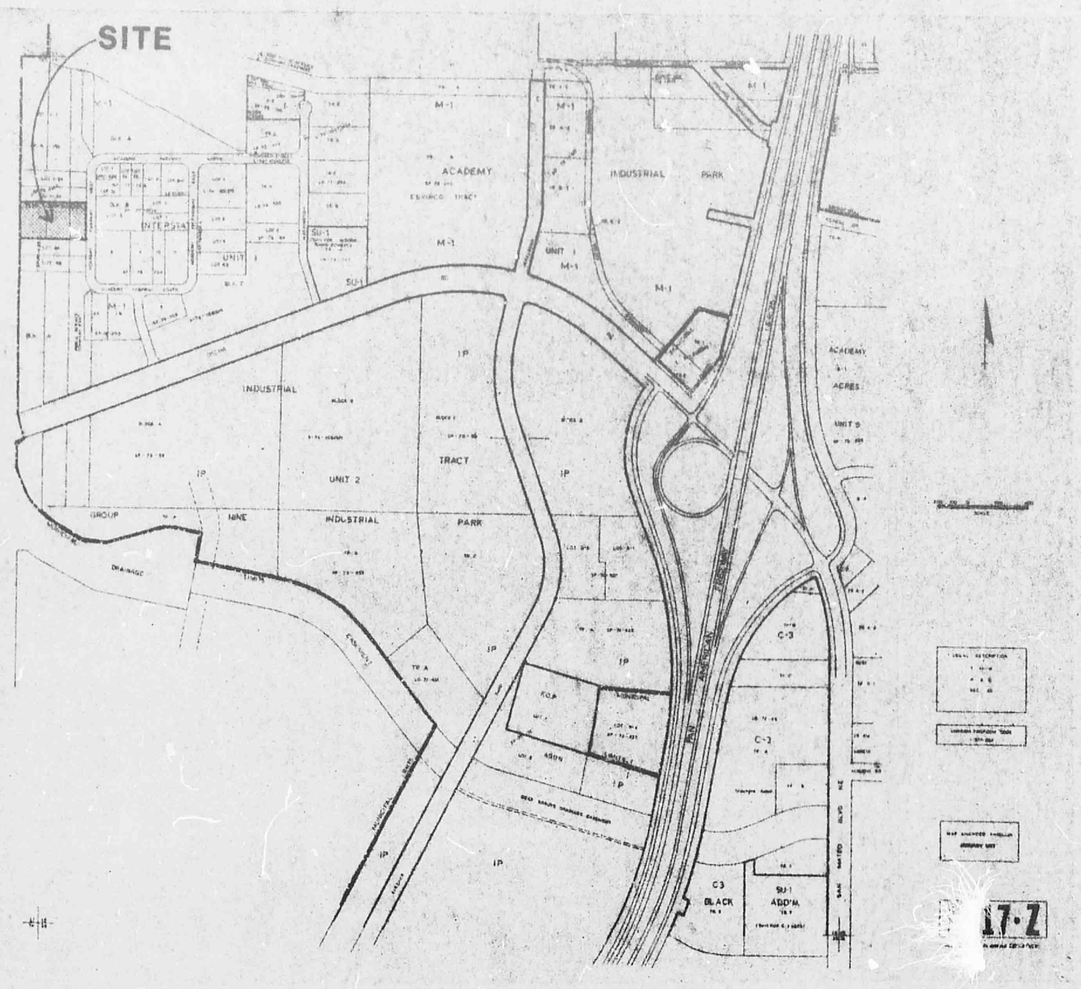
HYDROLOGY E17/D1P JOHN HAMMOND'S SPECIALTY FOODS

E17-D44

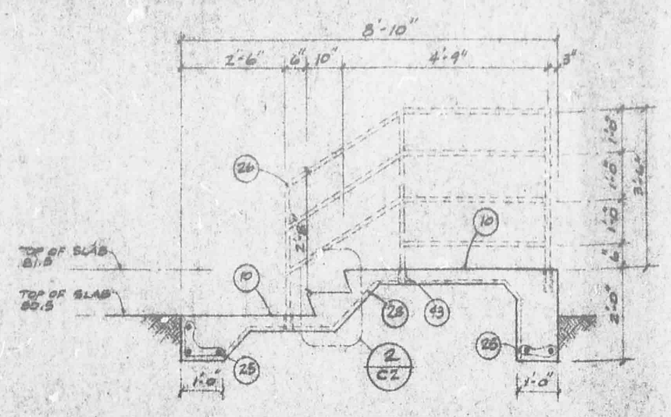
JOHN HAMMOND'S

SPECIALTY FOODS

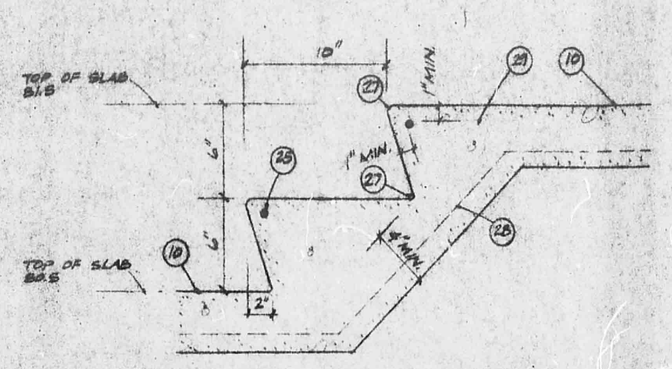
2 PLANS



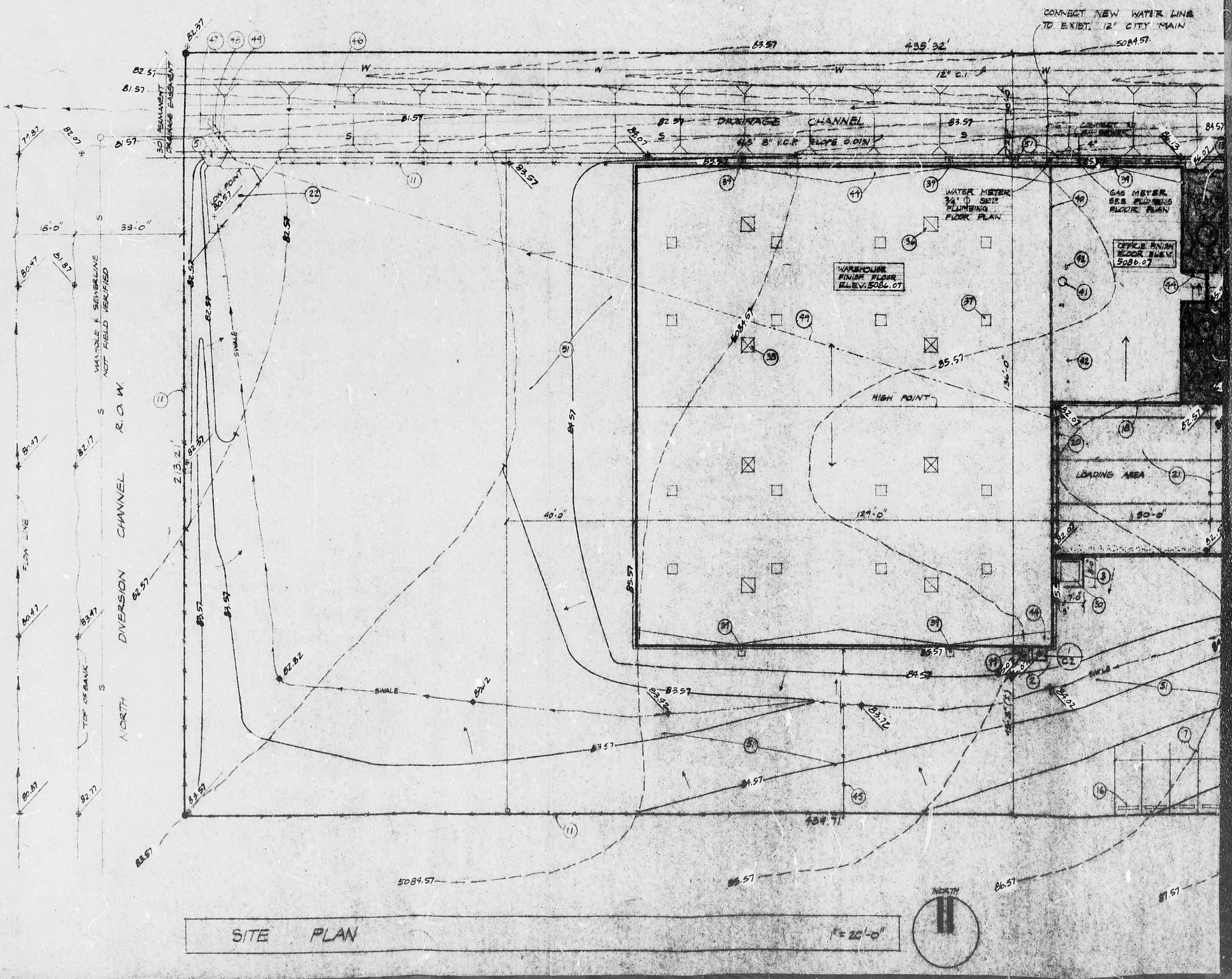
LOCATION MAP



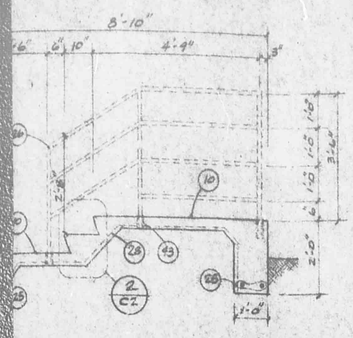
SECTION @ EXTERIOR STAIRS (1) 3/8" = 1'-0"



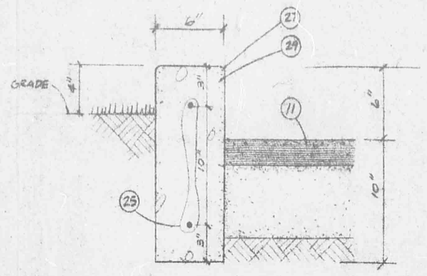
STAIR TREAD/RISER DETAIL (2) 1½" = 1'-0"



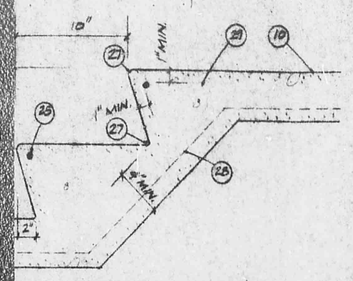
SITE PLAN 1" = 20'-0"



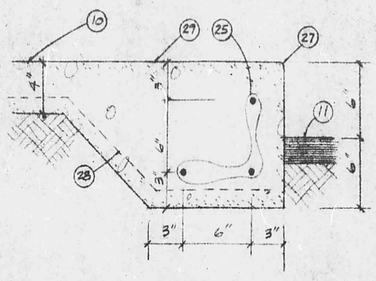
TERIOR STAIRS 1 3/8" = 1'-0"



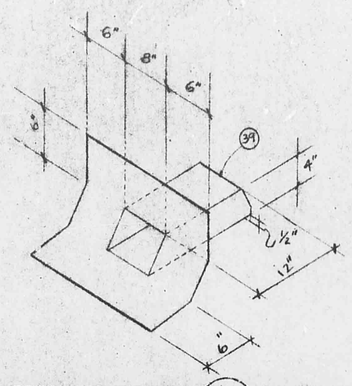
CURB DETAIL 3 1½" = 1'-0"



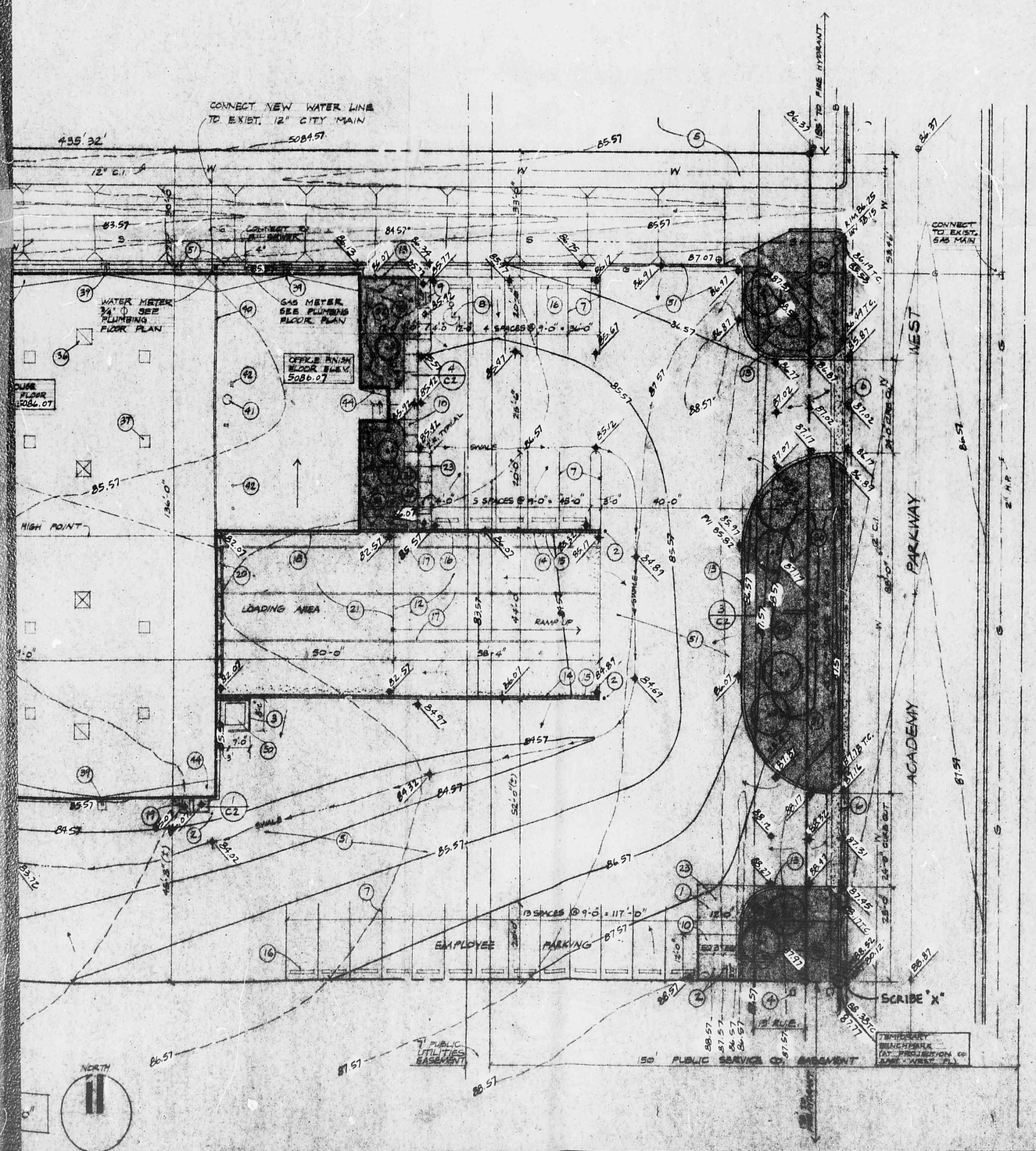
/RISER DETAIL 2 1½" = 1'-0"



THICKENED EDGE 4 1½" = 1'-0"



SCUPPER DETAIL 5 NO SCALE



DRAINAGE STATEMENT

THE SUBJECT SITE IS ALLOWED TO FREE DISCHARGE ALL STORM WATERS GENERATED ON SITE AND THOSE (IF ANY) FROM THE SOUTHERLY ADJACENT PROPERTY. THIS IS BASED ON THE APPROVED MASTER DRAINAGE STUDY PREPARED BY GORDON HERKENHOFF & ASSOCIATES. THE STORM WATER DISCHARGE POINT IS LOCATED AT THE SITE'S NORTHWEST CORNER WHERE THE FLOWS WILL ENTER INTO THE EXISTING PUBLIC LINED DRAINAGE CHANNEL.

PRIOR TO THE STORM WATERS EXITING THE SITE, ALL FLOWS WILL PASS THROUGH A MINOR DESILTATION POND. THIS FEATURE IS DESIRABLE SINCE THE EROSIVE CLEAN FLOWS FROM THE IMPERVIOUS AREAS WILL TRAVERSE ACROSS AN OPEN EARTHEN SURFACE; EQUATING TO THE FACT THAT THESE FLOWS WILL HAVE SEDIMENT CARRYING CAPABILITIES. FINALLY, THE DESILTED STORM WATER ENTER INTO THE CHANNEL VIA AN ASPHALT LINED SPILLWAY. MINOR STORM WATER VOLUMES CAPTURED BY THE LOADING DOCK AREA ARE TRANSFERRED VIA CLOSE CONDUIT TO THE CHANNEL'S LOW POINT. THE DESIGN OF THE EXIT STRUCTURE SHALL BE HANDLED BY A STANDARD SPECIAL ORDER NO. 19. PLANNED EXIT INVERT ELEVATION IS 5076.4 ±.

A POTENTIAL PROBLEM EXISTS AT THE CHANNEL'S ENTRANCE. THE ENTRANCE GEOMETRY HAS A THROTTLING EFFECT FOR MAJOR FLOWS, AND IF A DESIGN STORM WERE TO OCCUR, THE FLOWS WOULD BREACH THE CURB TO THE SOUTH AND ENTER INTO THE CHANNEL BY FLOWING OVER THAT EARTHEN AREA BETWEEN THE CURB AND CHANNEL. DUE TO THIS POSSIBLE CONDITION, THE SITE'S ENTRANCE CLOSEST TO THE DRAINAGE CHANNEL WAS PLACED SUCH THAT A LANDSCAPED BERM WOULD DEFLECT THESE WAYWARD FLOWS INTO THE CHANNEL.

DRAINAGE CHARACTERISTICS

OFFSITE: CONTRIBUTING TO THE CHANNEL AT ITS ENTRANCE ALONG ACADEMY PARKWAY WEST.

AREA = 25.3 ± AC.
TC = 14 MIN.
I = 3.85 (100 YR. STORM)
D = 2.2" OF RAINFALL
C = 0.75 (COMPOSITE)

RATE OF RUNOFF (Q) = CIA
= (0.75)(3.85)(25.3)
= 73 CFS

DUE TO THE COMPLEXITY AND THE MANY REQUIRED ASSUMPTIONS THAT MUST BE MADE FOR THE FULL ANALYSIS OF THE ENTRANCE CAPACITY OF THE EXISTING CHANNEL, ONLY GENERAL RECOMMENDATIONS SHALL BE GIVEN:

1. THE THREE WOODED POSTS AT THE ENTRANCE, WHICH SERVE AS A VEHICLE CONTROL BARRIER, SHOULD BE REMOVED BY THE CITY. THE REPLACEMENT ITEM SHOULD BE A CHAIN LINK GATE WITH A MINIMUM GROUND CLEARANCE OF 1.3 FEET. THE POST'S HYDROLOGICAL BEHAVIOR IS THAT OF BRIDGE PIERS, AND THEIR REMOVAL WOULD GREATLY INCREASE THE ENTRANCE CAPACITY FOR ACCEPTING STORM WATERS.
2. IF THE ENTRANCE WERE TO BE PARTIALLY BLOCKED, STORM WATERS WOULD BUILD UP AN INCREASED HEAD AND BE ROUTED INTO THE CHANNEL VIA AN ALTERNATE ROUTE, THAT BEING THE AREA TO THE SOUTH OF THE CHANNEL WITHIN PUBLIC R.O.W. OR EASEMENT.

ONSIGHT:

AREA = 80.475 SQ.FT. = 1.85 AC.
D = 2.2" (100 YR - 6 HR STORM)
TC = 10 MIN.
I = 2.35 X 2.2 = 5.17
C = 0.4 (UNDEVELOPED)
C = 0.9 (DEVELOPED)

QUND = CIA (0.4)(5.17)(1.85) = 3.8 CFS
QDEV = (0.9)(5.17)(1.85) = 8.6 CFS
QPEAK = 3.4 CFS BASED ON 0.35 INCHES OVER A 10 MINUTE DURATION
POND (DESILTATION) VOLUME = 300 CF

THERSFORE, UNDER PEAK RUNOFF CONDITIONS THERE WOULD BE A TURNOVER OF THE PONDED WATERS EVERY 1.5 MINUTES. IN THAT TIME, MOST OF THE SOLID BEING TRANSFERRED BY THE STORM WATER WOULD HAVE A CHANCE TO SETTLE.

BASIS OF ELEVATION: CITY BENCH MARK S-E17, ELEVATION 5103.63

DRAINAGE PLAN FOR THE SPECIALTY FOOD WAREHOUSE COMPLEX LOTS 3A & 3B, INTERSTATE INDUSTRIAL TRACT, ALBUQUERQUE, NEW MEXICO

APRIL 4, 1983

ARCHITECT: DE LA TORRE + RAINHART, PA

SURVEYOR: RICHARD HALL
DATE OF SURVEY: MARCH 2, 1983

Richard Hall 4/4/83
RICHARD HALL DATE

ENGINEER: ISAACSON & ARFMAN, PA
(GRADING & DRAINAGE ONLY)

FRED C. ARFMAN NEW MEXICO 7822 REGISTERED PROFESSIONAL ENGINEER

Fred C. Arfman 4/4/83
FRED C. ARFMAN DATE

FA 5-6-83

KEYED NOTES

1. REFUSE DUMPSTER LOCATION PAD.
2. 4" O.D. STEEL PIPES CONCRETE FILLED SET IN 2'-0" CONCRETE AND EXTENDING 4'-0" ABOVE SLAB. PAINT.
3. 6'-0" HIGH CEDAR FENCE SCREEN (3 SIDES).
4. EXISTING TELEPHONE BOX.
5. EXISTING LANDSCAPED PLANTER.
6. CURB CUT TO CITY OF ALBUQUERQUE STANDARDS.
7. PARKING STALL STRIPING - WHITE 2" WIDE.
8. PHYSICALLY HANDICAPPED PARKING IDENTIFICATION.
9. HANDICAPPED RAMP. SLOPE WALK AS SHOWN.
10. 4" DEEP CONCRETE SLAB W/ 4X4 10/10 WWM BROOM FINISH.
11. CHAIN LINK FENCE-6'-0" HIGH COMPLETE W/VERTICALS 8'-0" O.C. W/TOP RAIL AND TENSION WIRE AT BOTTOM OF FABRIC.
12. 6" THICK CONCRETE RAMP W/#4 BARS @ 12" O.C. EACH WAY. ROUGH BROOM FINISH.
13. 6" WIDE CONCRETE CURB.
14. CONCRETE RETAINING WALL - SEE STRUCTURAL.
15. CHAIN LINK FENCE 3'-0" HIGH. - SEE FLOOR PLAN.
16. PRECAST CONCRETE PARKING BUMPER. ANCHOR TO ASPHALT.
17. PAINTED GUIDE STRIPE 6" WIDE X 108'-4" LONG.
18. 12" X 12" X 40'-3" CONCRETE CURB - SEE STRUCTURAL.
19. CONCRETE STAIRS AND SLAB.
20. TRENCH DRAIN 88'-0" LONG, CAST IRON GRATE W/ LOCKING DEVICE, NON-SLOPED, INV. ELEV. 81.57, ACO OR EQ.
21. CONCRETE APRON - SEE STRUCTURAL.
22. TEMPORARY DESILTATION POND.
23. 6" THICK CONCRETE APRON W/4X4 - 10/10 WWM BROOM FINISH.
24. FREE STANDING SIGN.
25. #4 BARS CONTINUOUS.
26. 1-1/2" Ø PIPE RAIL.
27. RADIUS EDGE OR CORNER AS SHOWN.
28. 4 X 4 10/10 WWM.
29. 3000 PSI CONCRETE.
30. AREA SHADED REPRESENTS SODDED AREA. KENTUCKY BLUE GRASS (POA PRENTISES). 18" X 6' STRIPS - WEED FREE. 1 YEAR GUARANTEE. UNDERGROUND IRRIGATION SYSTEM W/ MANUAL VALVE CONTROL.
31. AMERICAN SYCAMORE. 7 REQUIRED. 1 YEAR GUARANTEE. 2" CALIPER.
32. TAM JUNIPER, 4'-0" O.C. 5 GAL. 1 YEAR GUARANTEE. 12 REQUIRED.
33. AREA SHADED REPRESENTS GRAVELED AREA (RED SCORIA) OVER 6 MIL. BLACK PLASTIC. UNDERGROUND IRRIGATION SYSTEM W/MANUAL VALVE CONTROL.
34. TAM JUNIPER, 4'-0" O.C. 5 GAL. 1 YEAR GUARANTEE. 13 REQUIRED.
35. FLOWERING PLUM. 2" CALIPER. 3 REQUIRED. 1 YEAR GUARANTEE.
36. EXHAUST FAN AND SEE MECHANICAL.
37. SKYLIGHT. SEE FLOOR PLAN.
38. FRESH AIR INTAKE. SEE MECHANICAL.
39. ROOF SCUPPER, PAINTED 24" GA. MT., COLOR BY ARCH.
40. PARAPET.
41. CONDENSER - SEE MECHANICAL.
42. MECHANICAL OPENINGS.
43. PIPE SUPPORT - VERTICAL PIPE MEMBERS. CONNECT PIPE TO [illegible] GROUT.
44. ROOF CURBS AT PARAPET.
45. 6'-0" HIGH CHAIN LINK FENCE 45'-8" ± IN LENGTH WITH 12' WIDE LOCKABLE GATE ON ROLLERS. GATE AND FENCE TO HAVE METAL SLATS.
46. EXISTING 2.5" CONCRETE GUTTER.
47. NEW 4' X 4' CONCRETE PAD. REFER TO SPECIAL ORDER #19.
48. PATCH EXISTING ASPHALT. REFER TO SPECIAL ORDER #19.
49. 4" PVC STORM LINE INVERT ELEVATION 80.57
50. TRANSFORMER PAD PER PNM SPECS.
51. ASPHALTIC CONCRETE, 1500# STABILITY ON 6" SUBGRADE COMPACTED @ 95% ASTM D-1557 2" THICKNESS @ PARKING 3" THICKNESS @ DRIVES.

GENERAL NOTES

1. EXISTING CONTOURS SHOWN THUS: 80
   NEW CONTOURS SHOWN THUS: 80
2. EXISTING SPOT ELEVATIONS SHOWN THUS: + 80.0
   NEW SPOT ELEVATIONS SHOWN THUS: ◆ 80.0
3. FLOW DIRECTIONAL ARROW

job title
JOHN HAMMONDS SPECIALTY FOODS, INC.
ALBUQUERQUE, NEW MEXICO

	job no	date
	0883	4/4/83
sheet title SITE PLAN		by CRG

STATE OF NEW MEXICO JORGE DE LA TORRE NO. 860 REGISTERED ARCHITECT

de la torre • rainhart, p.a.
architects aia
812 indian school r.d.a.n.e. • suite 141
albuquerque n.m. 87110 505 881 0550

sheet 2
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