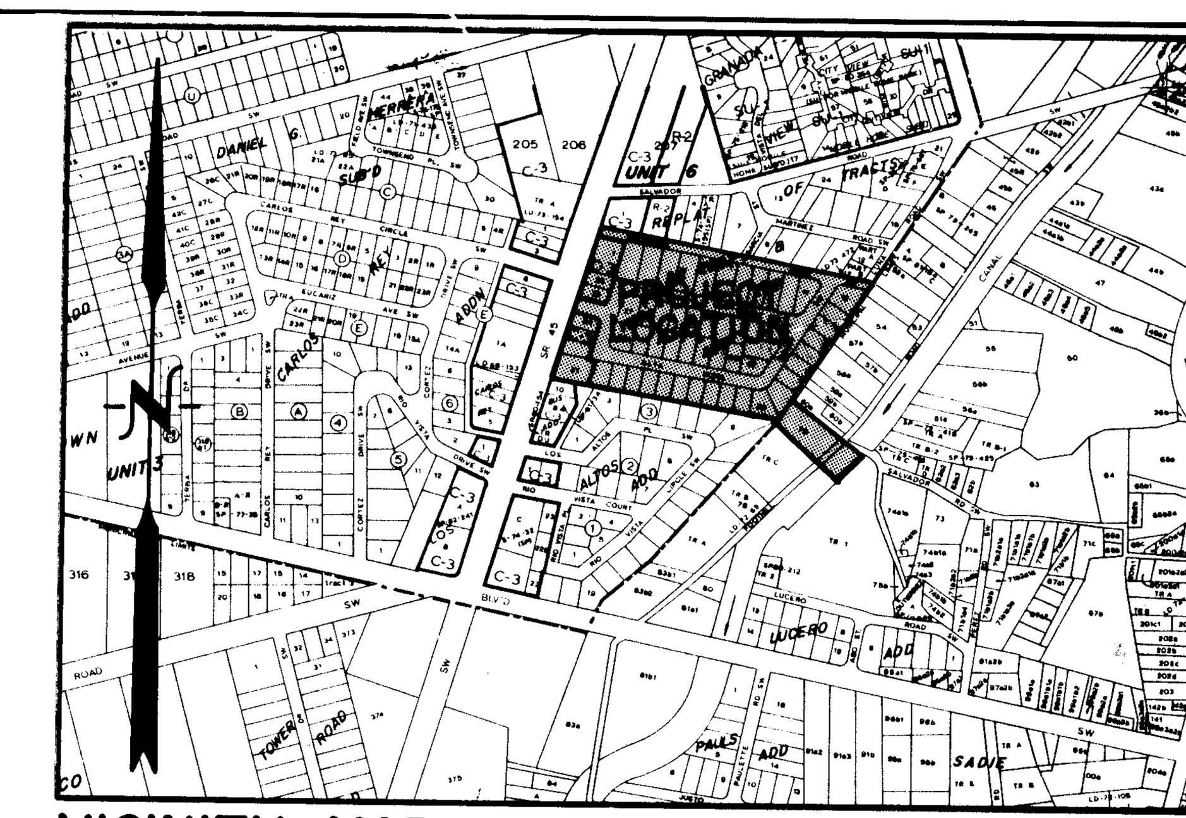


VICINITY MAP L-11
SCALE 1" = 800'

CONSTRUCTION PLANS FOR

VISTA ALTA ADDITION

STORM DRAINAGE FACILITIES

INDEX TO DRAWINGS

26 1966 0185

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER
W. J. McNamara
DATE 10-30-85

GENERAL NOTES

1. All work detailed on these plans to be performed under contract shall, except otherwise stated or provided for hereon, be constructed in accordance with the New Mexico Standard Specifications for Public Works Construction - 1979 Edition (referred herein as the Standard Specifications) and the contract documents for Public Works Contract No. 85-1.
2. Two (2) working days prior to any excavation, Contractor must contact line locating service, 765-1234, for location of existing utilities.
3. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
4. All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and health.
5. Contractor shall maintain access to adjacent properties during construction.
6. All gas, electric, telephone lines, cables, and appurtenances encountered during construction that require relocation, shall be done by the responsible utility. Contractor shall be responsible for coordination of all necessary utility adjustments.
7. It will be the Contractor's responsibility to protect and maintain in service all existing utilities.
8. The Contractor will be required to confine his work within the construction limits and/or public right-of-way to preserve existing vegetation and private property. Overnight parking of construction equipment shall not obstruct driveways or designated traffic lanes.
9. A disposal site for all excess excavation material, asphaltic paving, concrete curbs and sidewalks, etc., shall be obtained by the Contractor in compliance with applicable environmental regulations and approved by the Field Engineer. All costs incurred in obtaining a disposal site and haul thereto shall be considered incidental to the project and no separate measurement or payment shall be made.
10. Where removal of existing curbs and gutters, sidewalk or pavement is required, Contractor shall sawcut and/or remove to the nearest joint. Curb and gutter shown on these plans as existing and not to be removed under this contract, which is damaged or displaced by the Contractor shall be removed and replaced at the Contractor's expense.
11. When abutting new pavement to existing, sawcut existing pavement to a straight edge and at a right angle, or as approved by the Project Engineer, to remove any broken or cracked pavement.
12. All stationing shown on these plans is based on street centerline unless noted otherwise.
13. The Contractor must submit a construction signing and barricading plan to Traffic Engineering a minimum of three (3) working days prior to construction to receive a barricading permit.
14. Backfill compaction shall be according to specified street use.
15. All trench backfill shall be compacted to a minimum 90% maximum density as per ASTM -D1557.
16. Any existing utility service lines that do not require relocation and are damaged by the Contractor shall be removed and replaced at the Contractor's expense. This expense shall be considered incidental to the project and no separate payment shall be made.

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
1	2,3,6	C. A. [signature]	1/14/85	Jim Fink	1/10/85		

APPROVAL OF REVISIONS

ENGINEERS SEAL
JAMES L. LEYMON, JR. NEW MEXICO 8105 REGISTERED PROFESSIONAL ENGINEER

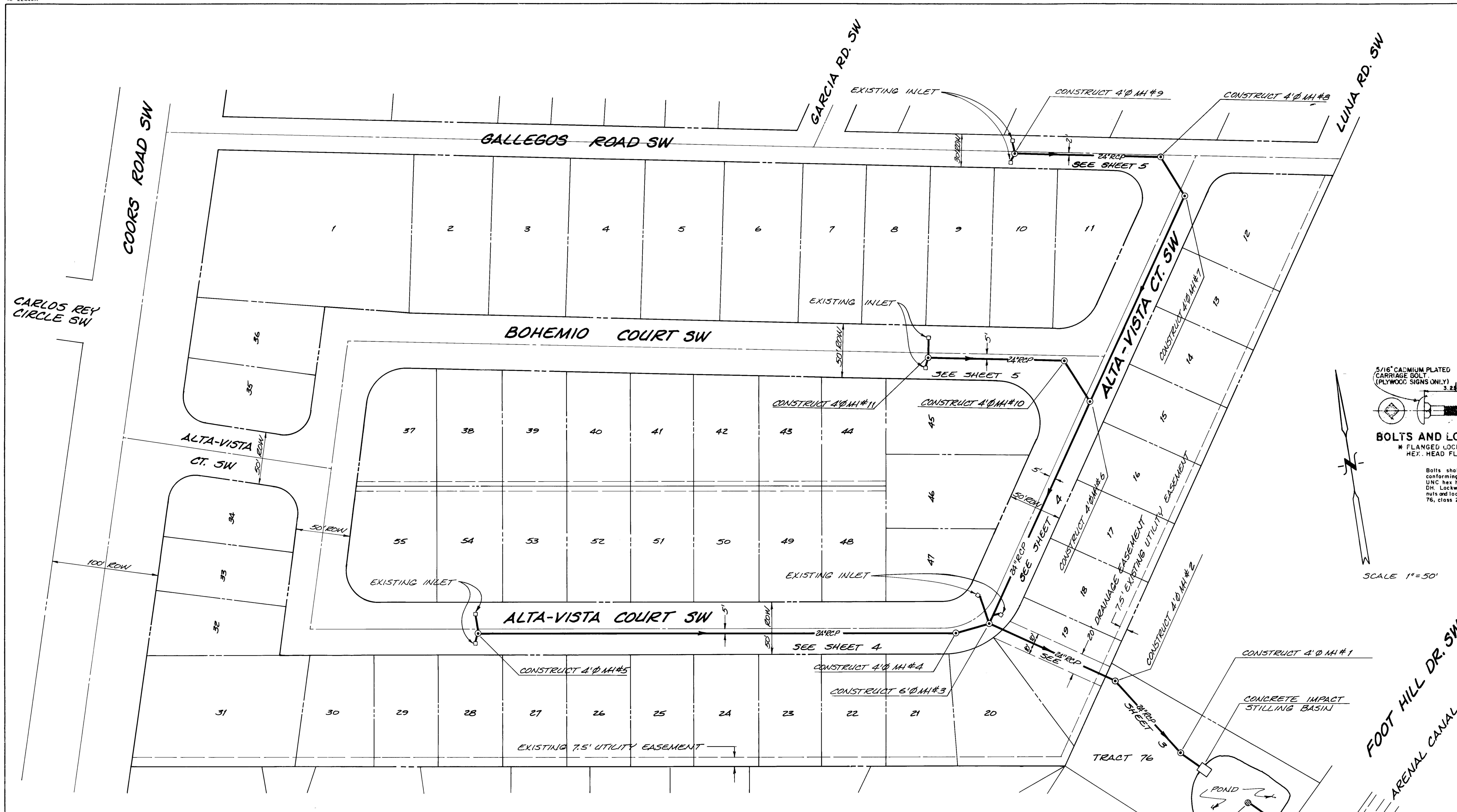
ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

APPROVED FOR CONSTRUCTION
[signature] C.E.

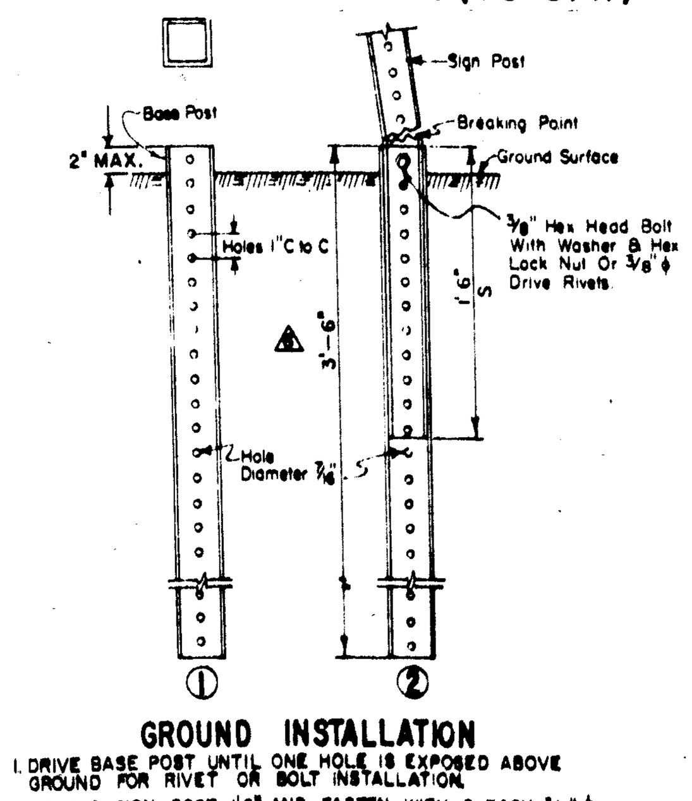
PROJECT NUMBER 1966

SHEET 1 OF 6

JOB NO. 4163

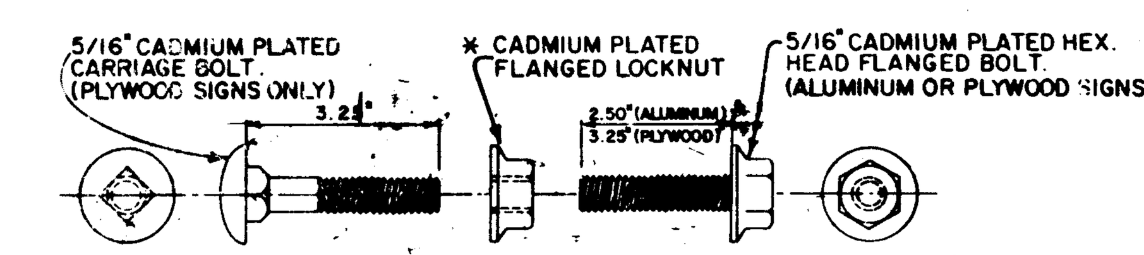


POSTS △
0.1345" THICK (10 GA.)



GROUND INSTALLATION

1. DRIVE BASE POST UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR RIVET OR BOLT INSTALLATION.
2. INSERT SIGN POST 1'6" AND FASTEN WITH 2 EACH 3/8" Ø DRIVE RIVET OR A 3/8" Ø BOLT.
3. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREA OF THE BREAKAWAY INFLUENCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FIELD DRILLED).
4. 3" X 3" X 4' 0" BASE POST OF 3/16" WALL THICKNESS TO BE USED WITH 2 1/2" X 2 1/2" 0.1345 POST.

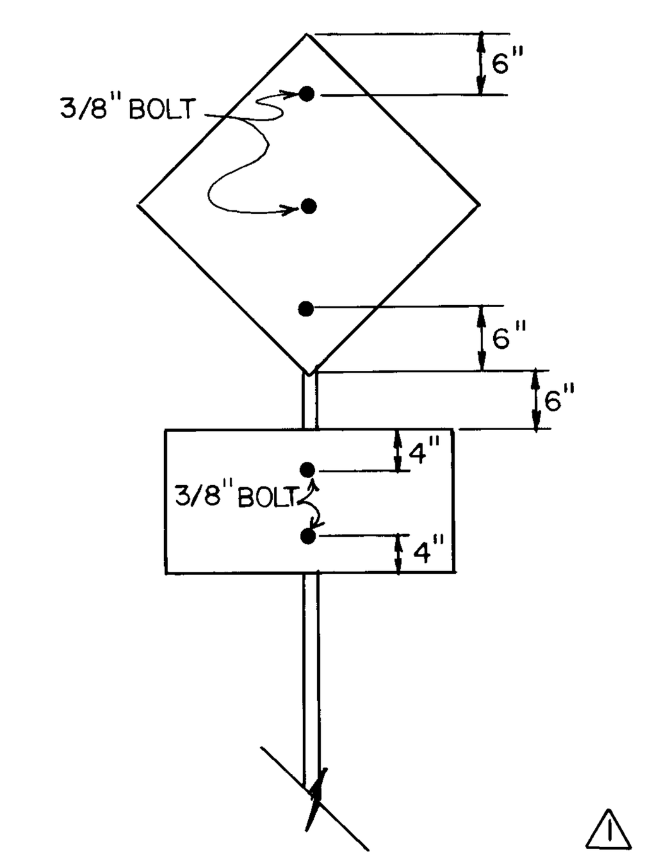


BOLTS AND LOCKNUT-SIGN ATTACHMENT △

* FLANGED LOCKNUT REQUIRED FOR CARRIAGE AND HEX. HEAD FLANGE BOLT.

Bolts shall be 3/8" x 16 UNC x 2.0" long hex. integral flange conforming to ASTM A-354 grade BD. Nuts shall be 3/8" x 16 UNC hex head, integral flange conforming to ASTM A-563 grade DH. Lockwashers shall be 3/8" extra duty helical spring. Bolts, nuts and lockwashers shall mechanically galvanized to ASTM B-454-76, class 25.

SCALE 1" = 50'

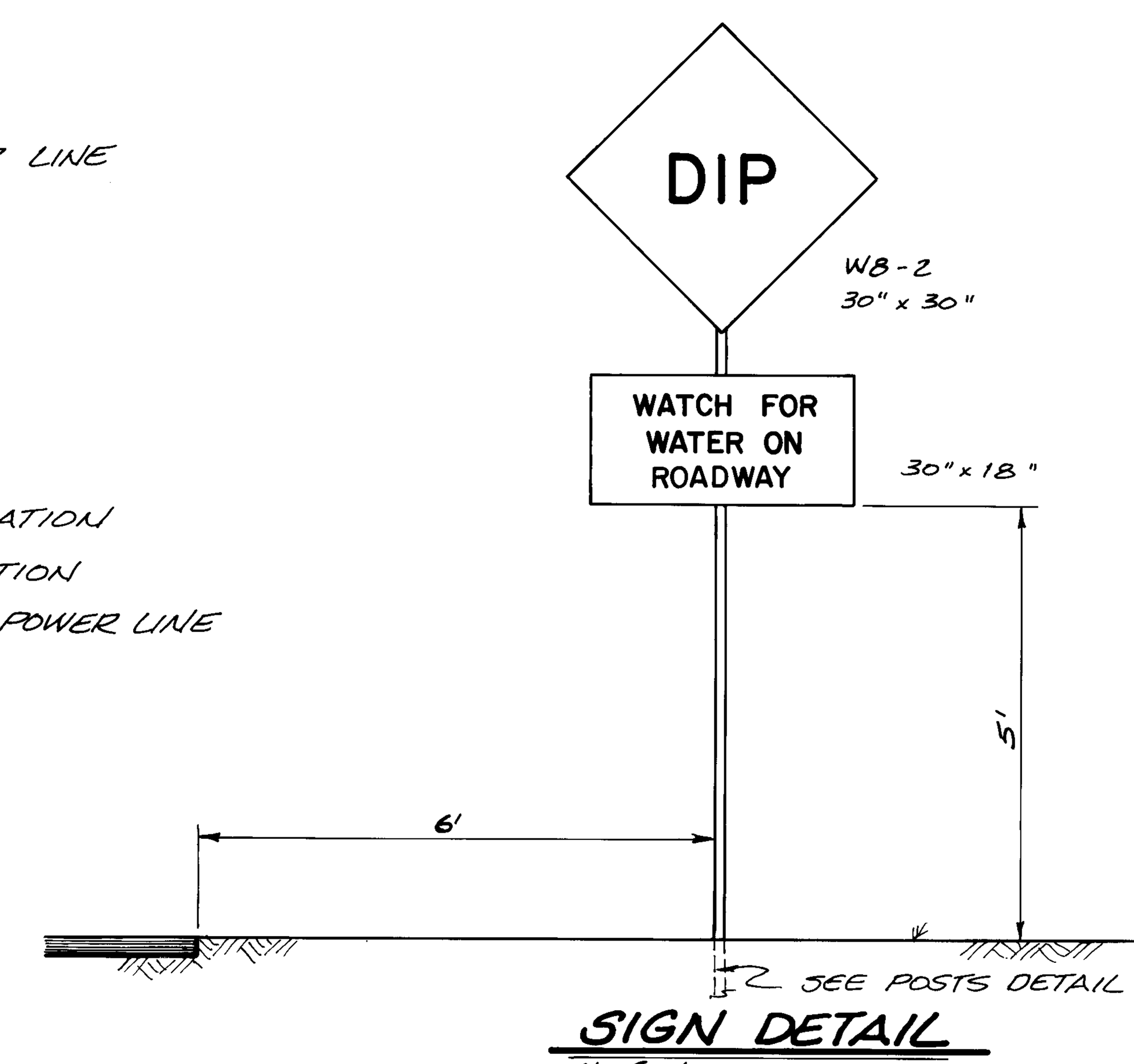


BOLT PATTERN & SIGN SPACING △

NO SCALE

LEGEND

5000	EXISTING CONTOUR LINE
Ø 47.85	EXISTING SPOT ELEVATION
	EXISTING STORM SEWER
SAS	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
	EXISTING BLOCK WALL
	EXISTING FENCE
	EXISTING GUARD RAIL
	EXISTING CHAINLINK FENCE
	EXISTING CURB AND GUTTER
	EXISTING POWER POLE AND GUY WIRE
	EXISTING TREE
48	NEW CONTOUR LINE
Ø 48.3	NEW SPOT ELEVATION
	NEW STORM SEWER
	NEW CHAIN LINK FENCE
	SWALE
	CONCRETE
52	PROPOSED CONTOUR LINE
2" GAS	EXISTING GAS LINE
	NEW RIP RAP
	EXISTING BUILDING
	NEW PAVEMENT
	CENTER LINE
	PROPERTY LINE
T.C. 07.59	TOP OF CURB ELEVATION
FL 07.71	FLOW LINE ELEVATION
OE	EXISTING OVERHEAD POWER LINE



SIGN DETAIL

No Scale

26 19660285

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOTHILL DR. SW, A 60-PENNY NAIL IN POWER POLE ELEVATION = 4966.135 FEET (MSLD)

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS			
NO.	DATE	REMARKS	
△1	1-9-85	ADD POST DETAIL	DAL

DESIGN		
DESIGNED BY DAL	DATE SEPT. 1984	
DRAWN BY TKW	DATE SEPT. 1984	
CHECKED BY DAL	DATE SEPT. 1984	

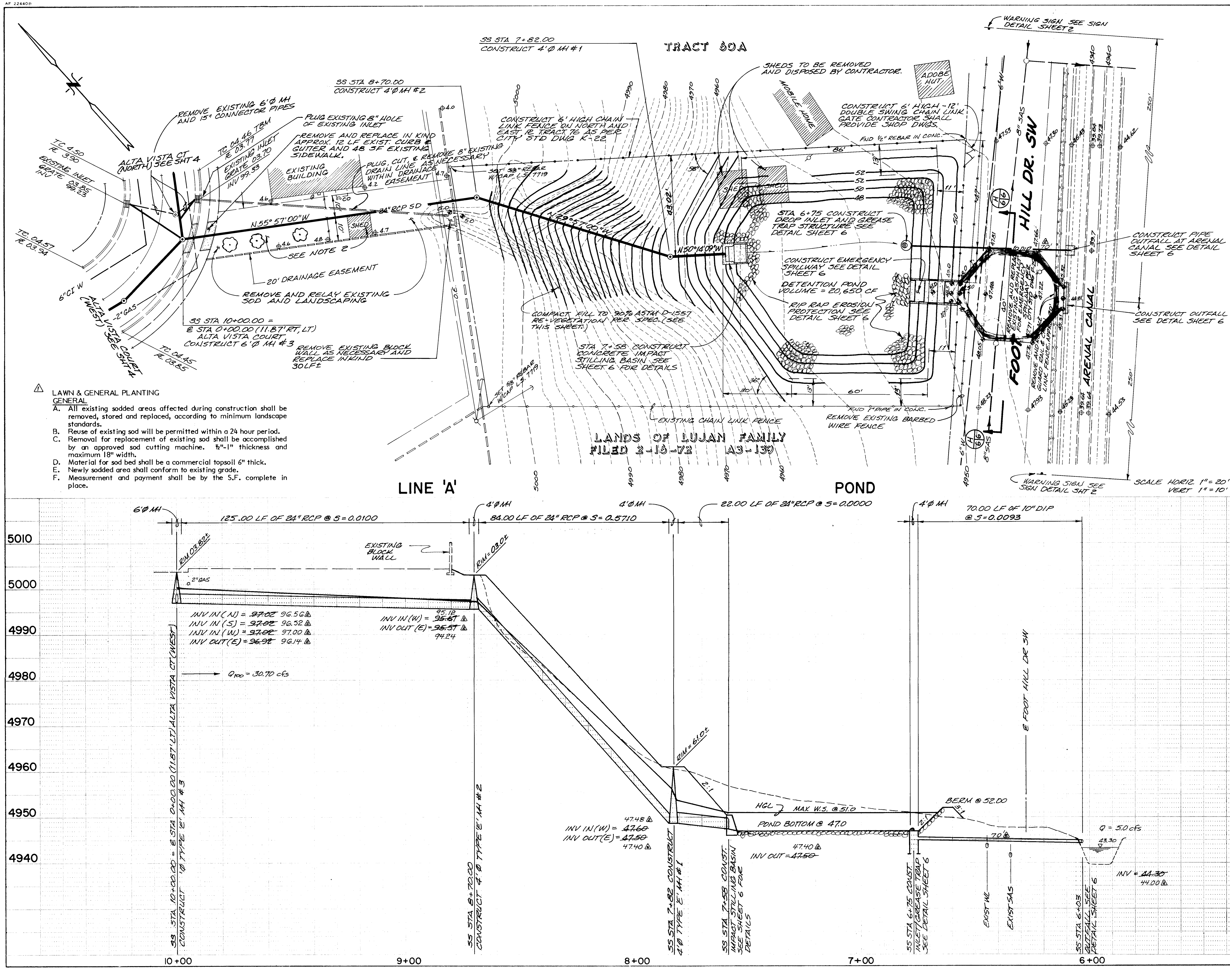
ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD NE SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:
VISTA - ALTA ADDITION STORM DRAINAGE FACILITIES
OVERALL STORM DRAINAGE FACILITIES PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	C.D. Kuyper	12/27/84	Liquid Waste	R. Peña	12/5/84
A.C.E.-Design	G.R. Elson	12/26/84	Traffic	NA DWH	12/5/84
A.C.E.-Hydrology	Jim Smith	12/5/84	Water	R. Peña	12/5/84
County Roads Dept.	John Ramsey	12/12/84	MRGCD	S. Shah	12/12/84

DRAWING NO.	MAP NO.	SHEET	OF
1966	L-11	2	6



⚠ LAWN & GENERAL PLANTING

GENERAL

A. All existing sodded areas affected during construction shall be removed, stored and replaced, according to minimum landscape standards.
B. Reuse of existing sod will be permitted within a 24 hour period.
C. Removal for replacement of existing sod shall be accomplished by an approved sod cutting machine. ½"-1" thickness and maximum 18" width.
D. Material for sod bed shall be a commercial topsoil 6" thick.
E. Newly sodded area shall conform to existing grade.
F. Measurement and payment shall be by the S.F. complete in place.

NOTES:

1) DETENTION POND AND EARTH BERM SHALL BE COMPACTED TO 90% ASTM - D-1557 COMPACTION AROUND AND UNDER CONCRETE STRUCTURES SHALL BE 95% ASTM D-1557.

2) ALL WORK WITHIN THE 20' DRAINAGE EASEMENT SHALL BE COORDINATED W/ OWNER. EASEMENT SHALL BE RESTORED TO ITS ORGINAL CONDITION.

3) WARNING SIGNS FOR THE EMERGENCY SPILLWAY DIP SECTION SHALL BE SUPPLIED, PLACED AND MAINTAINED BY THE COUNTY ROAD DEPT.

EROSION CONTROL PLAN

A. ERODIBLE SURFACE AREA

1. There is no limit to erodible surface area exposed at one time for this project.

B. TEMPORARY MEASURES

1. Earth slopes that are completed other than during the permanent seeding season are to be treated with, measured and paid for as temporary soil stabilant. The term "seeding season" as used herein includes all periods when seed is actually applied to the prepared seedbed.
2. All exposed soil areas shall be treated with temporary soil stabilant or otherwise kept dust free. The contractor, at the direction of the project manager, shall use his watering equipment for dust pollution abatement. This operation shall be given priority over any other operation where the water equipment might be required. Watering or other treatment as required shall be considered incidental to construction and no measurement or payment will be made therefore.
3. As directed by the project manager, slopes which are exposed during construction and will be subject to erosion are to be treated to prevent erosion. The contractor has the option to use water or temporary soil stabilant. Either treatment shall be considered incidental, and no measurement or payment will be made therefore.
4. If construction operations need to be suspended for a period of time longer than two weeks, the project manager shall request the contractor to treat all exposed areas with a temporary soil stabilant. No measurement or payment will be made therefore.
5. Areas occupied by the contractor in connection with this work shall be kept free of dust. This work shall be considered incidental, and no measurement or payment will be made therefore.
6. All soil slopes shall be scarified or left to remain rough as they are constructed.
7. Temporary soils stabilant per acre shall consist of 100 pounds of dry powdered muciloid derived from seed husks and 150 pounds of virgin wood cellulose mulch mixed uniformly with 700 gallons of water, or 90 pounds of semirefined sea weed extract and its gelling agent mixed with 200 pounds of virgin wood cellulose mulch combined with 1,100 gallons of water and mixed according to manufacturer's directions, either to be applied uniformly.

C. PERMANENT MEASURES

1. This work shall consist of seeding all areas which are denuded of vegetation during construction operations in substantial compliance with the specifications shown hereon in conjunction with Section 212 of the New Mexico State Highway Department Standard Specifications for Road and Bridge Construction, 1984 Edition. All seeding on this project shall comply with Class "C" seeding specifications, as outlined in the project specifications.
2. MULCH

   Hay mulch for Class "C" seeding shall be barley straw applied at a rate of 1.5 tons per acre. Mulch shall have a minimum of 50% of fibers exceding 10 inches in length on the ground after application. Mulch anchoring tack shall be the same as the temporary soil stabilant except that it is applied as a overspray after fertilizer, seed and mulch are in place.
3. SEEDING & WATERING SCHEDULE

   The seeding season for Class "C" seeding shall be from May 1 through August 15. Water shall be applied at four (4) applications of one inch (1"), timed three (3) days apart for the first two (2) weeks, and one (1) application of one inch (1") each week for four (4) weeks, or as determined by the project manager.

4. SEED MIX

SPECIES	ORIGIN	LBS. PURE LIVE SEED PER ACRE
Annual Rye	Any	2
Blue Grama	Hachita or Lovington	1
Sideoats Grama	Vaughn	4
Western Wheatgrass	Barton or Arriba	5
Galleta	Viva	4
	TOTAL	16

		BULK LBS. PER ACRE
Rubber Rabittbrush	N.M. Region	1.0
Rocky Mt. Penstemon	Bandera	1.0
Fourwing Saltbush	N.M. Region	1.0
	TOTAL	3.0

5. FERTILIZER REQUIREMENTS

CHEMICAL	ACTUAL MINIMUM POUNDS/ACRE
Slow Release Nitrogen (i.e., Urea Formaldehyde)	38
Fast Release Nitrogen (i.e., Ammonium Sulfate)	40
Phosphorus, as in P_2O_5	46
Sulfur (in a water soluble form)	48

26 19660385

BENCH MARKS

ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOTHILL DR. SW. A 60 PENNY NAIL IN POWER POLE ELEVATION = 4966.135 FEET (M.S.L.D.)

AS BUILT INFORMATION

SURVEY INFORMATION — FIELD NOTES

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
1	1-9-85	ADD LAWN & GENERAL PLANTING NOTE	D.A.L.
	10-23-86	REVISION FROM AS-BUILT DRAWINGS	

DESIGN		
DESIGNED BY DAL	DATE SEPT. 1984
DRAWN BY T.K.W.	DATE SEPT. 1984
CHECKED BY DAL	DATE SEPT 1984

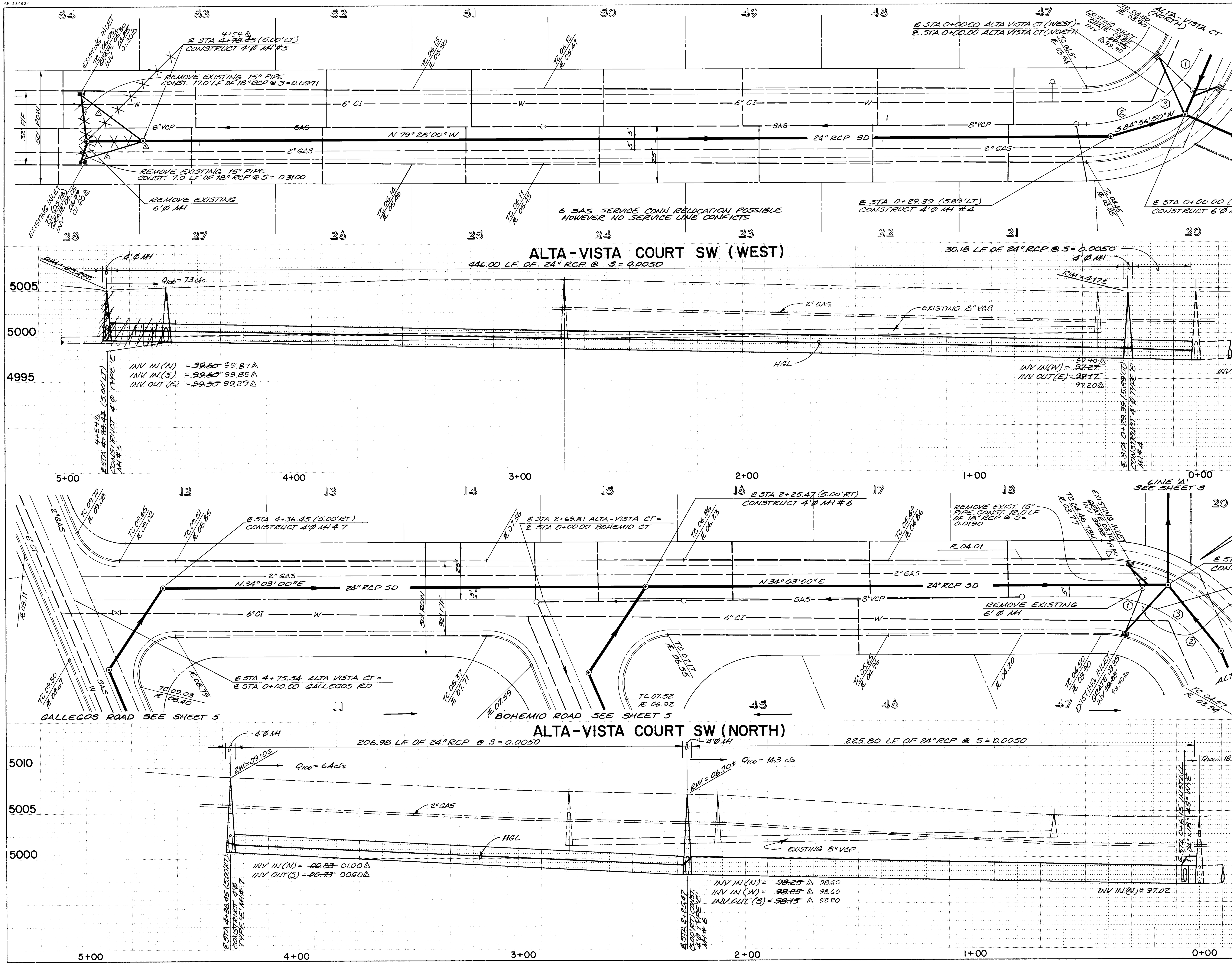
ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA - ALTA ADDITION STORM DRAINAGE FACILITIES
LINE 'A' AND POND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	12/10/84	Liquid Waste	R. Peña	12/5/84
A C E - Design	[signature]	12/6/84	Traffic	NA	12/5/84
A C E - Hydrology	[signature]	12/5/84	Water	R. Peña	12/5/84
County Road Dept	[signature]	12/12/84	MRGCD	[signature]	12/12/84

DRAWING NO. 1966 | MAP NO. L-11 | SHEET 3 OF 6



SCALE HORIZ. 1" = 20'
VERT 1" = 5'

℄ CURVE DATA

1. Δ = 26°02'08", R = 55.00', L = 24.99'
2. Δ = 40°26'52", R = 55.00', L = 38.83'
3. Δ = 66°29'00", R = 55.00', L = 63.82'

NOTE

1) SOME SAS SERVICES MAY BE IN CONFLICT, SEE GENERAL NOTES SHEET 1, NOTE 3

2) ALL PAVEMENT CUTS FOR STORM SEWER CONSTRUCTION SHALL BE AS PER CITY OF ALBUQUERQUE STD DWG P-25-3

3) ALL PAVEMENT REPLACEMENT SHALL BE RESIDENTIAL AS PER CITY OF ALBQ. STD. DRAWINGS P-1-1 & P-7-2

— — — ASSUMED OR AS-BUILT LOCATED SAS SERVICE

——— FIELD VERIFIED SAS SERVICE

26 19660485

ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD NE SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

AS BUILT INFORMATION

CONTRACTOR	K.N.C.	
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY	J. Johnson	DATE 10-2-85
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY	E. Nez	DATE 10-23-85

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO	

BENCH MARKS

ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOTHILL SW A 60-PENNY NAIL IN POWER POLE
ELEVATION = 4966.135 FEET (MSLD)

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
△	10-23-85	Revision from As-Built Drawings	E. Nez

DESIGN

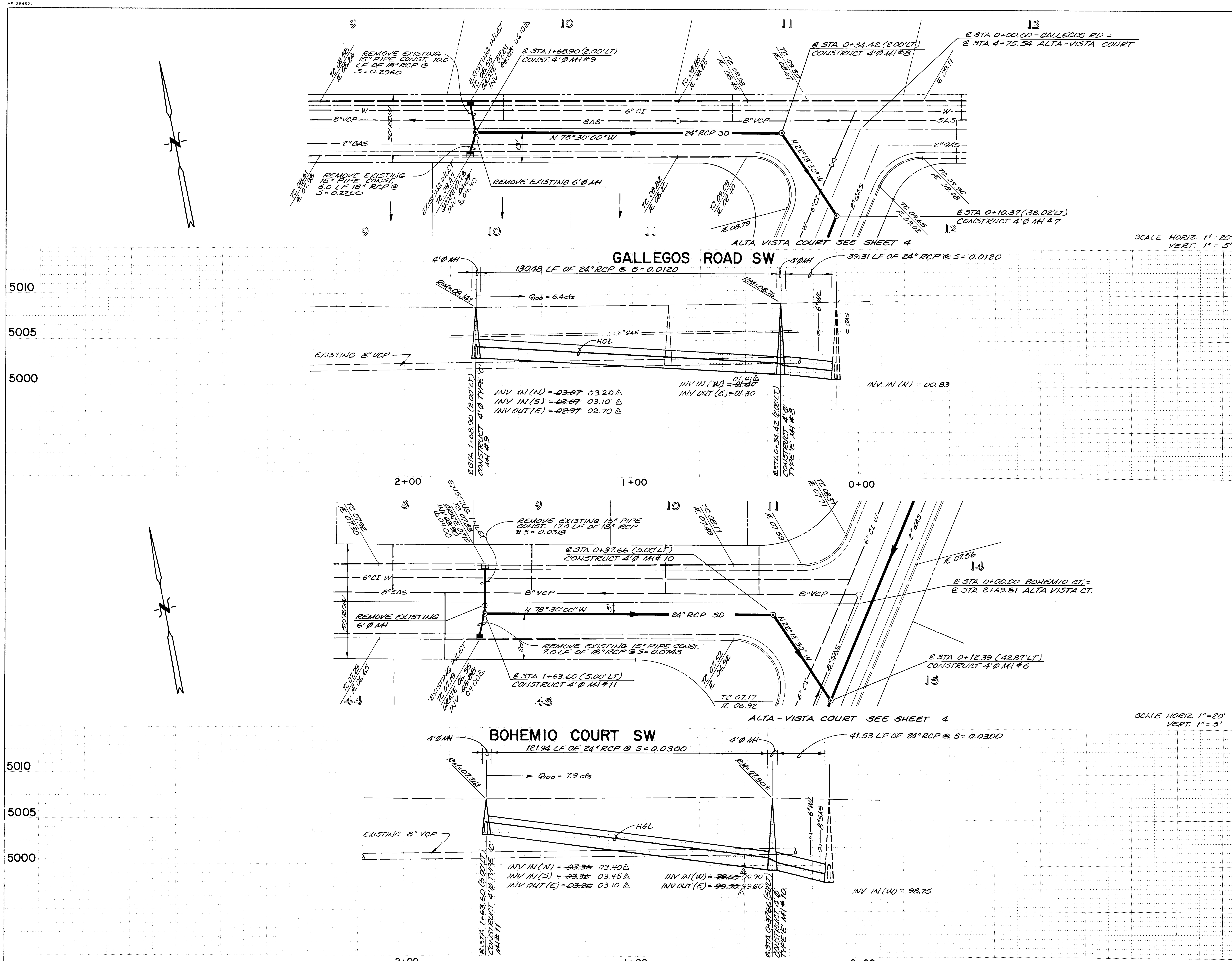
DESIGNED BY D.A.L.	DATE SEPT. 1984
DRAWN BY TXW	DATE SEPT. 1984
CHECKED BY DAL.	DATE SEPT 1984

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:
VISTA-ALTA ADDITION STORM DRAINAGE FACILITIES
ALTA VISTA COURT

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	12/27/84	Liquid Waste	R. Peña	12/5/84
A.C.E.-Design	[signature]	12/26/84	Traffic	NA DWH	12/?/84
A.C.E.-Hydrology	[signature]	12/5/84	Water	R. Peña	12/5/84
County Road Dept.	[signature]	12/10/84	MRGCD	[signature]	12/12/84

DRAWING NO.	MAP NO.	SHEET	OF
1966	L-11	4	6



NOTE

1) SOME SAS SERVICES MAY BE IN CONFLICT, SEE GENERAL NOTES SHEET 1, NOTE 3

2) ALL PAVEMENT CUTS FOR STORM SEWER CONSTRUCTION SHALL BE AS PER CITY OF ALBUQUERQUE STD DWG P-25-3.

3) ALL PAVEMENT REPLACEMENT SHALL BE RESIDENTAL AS PER CITY OF ALBUQUERQUE STD. DWGS P-1-1 AND P-7-2.

— — — ASSUMED OR AS-BUILT LOCATED SAS SERVICE

——— FIELD VERIFIED SAS SERVICE

AS BUILT INFORMATION

CONTRACTOR K.N.C.

INSPECTOR'S ACCEPTANCE BY J. JOHNSON DATE 10.23.85

FIELD VERIFICATION BY / DRAWINGS CORRECTED BY E. NEZ DATE 10.28.85

MICRO-FILM INFORMATION

BENCH MARKS

ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOTHILL DR. SW. A 60-PENNY NAIL IN POWER POLE ELEVATION = 4966.135 FEET (MSLD)

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS			
NO.	DATE	REMARKS	BY
△	10.23.85	REVISION FROM AS-BUILT DRAWINGS	E. Nez

DESIGN	
DESIGNED BY DAL	DATE SEPT. 1984
DRAWN BY TXW	DATE SEPT. 1984
CHECKED BY DAL	DATE SEPT. 1984

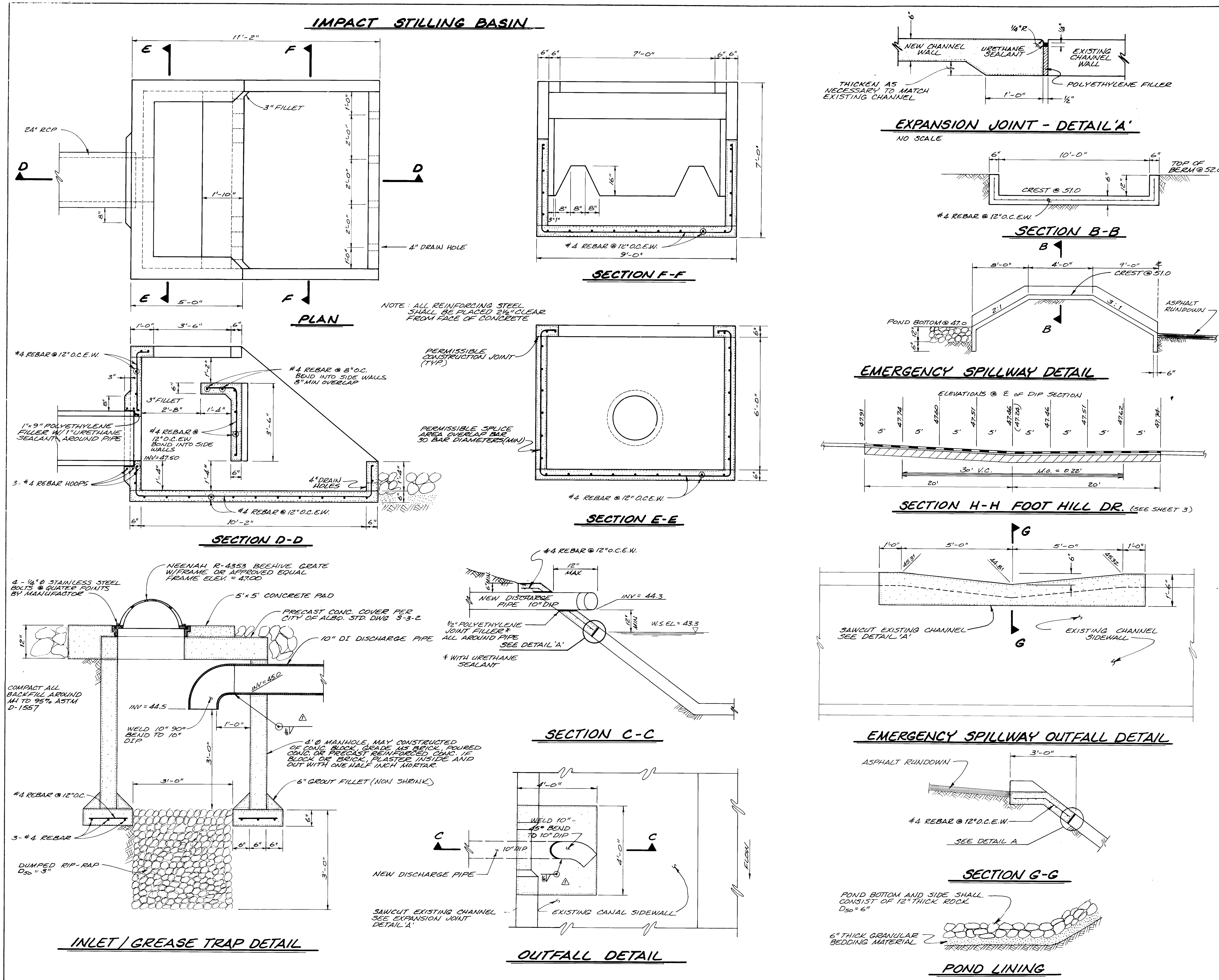
26 19660585

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:
VISTA-ALTA ADDITION STORM DRAINAGE FACILITIES
GALLEGOS ROAD - BOHEMIO COURT

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	C.W. Sheppard	12/27/84	Liquid Waste	R. Peña	12/5/84
A.C.E.-Design	[illegible]	12/26/84	Traffic	NA DWH	12/5/84
A.C.E.-Hydrology	Jim [illegible]	12/5/84	Water	R. Peña	12/5/84
County Road Dept.	John [illegible]	12/12/84	MRGCD	[illegible]	12/12/84

DRAWING NO. 1966 | MAP NO. L-11 | SHEET 5 OF 6



NOTES:
1) COMPACTION AROUND AND BELOW ALL CONCRETE STRUCT. SHALL BE 95% ASTM D-1557.

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY		DATE
NO		

BENCH MARKS

ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOT HILL DR SW A 60-PENNY NAIL IN POWER POLE.
ELEVATION = 4966.135 FEET (MSLD)

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

JAMES L. LEYHON, JR. NEW MEXICO 8105 REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY
1	1-9-85	ADD WELD SYMBOL	D.A.L.

DESIGN

DESIGNED BY D.A.L. DATE SEPT. 1984
DRAWN BY TXW DATE SEPT. 1984
CHECKED BY DAL DATE SEPT 1984

26 19660685

ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD NE SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:
VISTA-ALTA ADDITION STORM DRAINAGE FACILITIES
DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	12/27/84	Liquid Waste	R. Peña	12/5/84
A.C.E.-Design	[signature]	12/26/84	Traffic	NA DWH	12/5/84
A.C.E.-Hydrology	[signature]	12/5/84	Water	R. Peña	12/5/84
County Road Dept.	[signature]	12/13/84	MRGCD	A. Shah	12/12/84

DRAWING NO. 1966 | MAP NO. L-11 | SHEET 6 OF 6