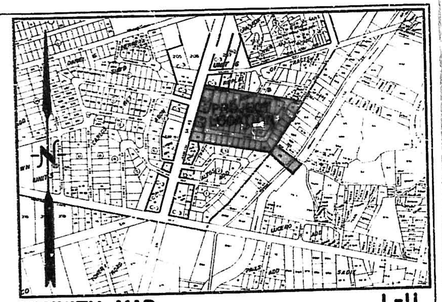


VICINITY MAP
SCALE 1"= 800'

L-11

CONSTRUCTION PLANS FOR

VISTA ALTA ADDITION

STORM DRAINAGE FACILITIES

INDEX TO DRAWINGS

2G 196C0185

APPROVAL OF AS BUILT PLANS
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 herein, 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
2,3,6			11/4/85		11/01/85		

APPROVAL OF REVISIONS

ENGINEERS SEAL

JESSE L. LEVICK JR. 8565 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

C.E.

PROJECT NUMBER
1966

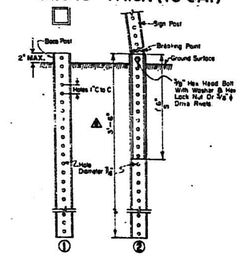
SHEET 1 OF 6

JOB NO. 4163

AF 2264GA

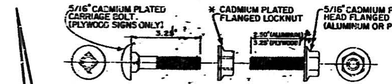
GALLEGOS ROAD SW
GARCIA RD. SW
COORS ROAD SW
CARLOS REY CIRCLE SW
BOHEMIO COURT SW
ALTA-VISTA CT. SW
ALTA-VISTA COURT SW
LUNA RD. SW
FOOT HILL DR. SW
ARENAL CANAL
TRACT 76
POND
EXISTING INLET
CONSTRUCT 4'Ø MH #9
CONSTRUCT 4'Ø MH #8
CONSTRUCT 4'Ø MH #11
CONSTRUCT 4'Ø MH #10
CONSTRUCT 4'Ø MH #7
CONSTRUCT 4'Ø MH #6
CONSTRUCT 4'Ø MH #5
CONSTRUCT 4'Ø MH #4
CONSTRUCT 4'Ø MH #3
CONSTRUCT 4'Ø MH #2
CONSTRUCT 4'Ø MH #1
CONSTRUCT 6'Ø MH #3
CONCRETE IMPACT STILLING BASIN
CONSTRUCT INLET W/ DRAIN TO ARENAL CANAL
EMERGENCY SPILLWAY
24"RCP
SEE SHEET 5
SEE SHEET 4
30' R.O.W.
100' R.O.W.
5' R.O.W.
DRAINAGE EASEMENT
7.5' EXISTING UTILITY EASEMENT
EXISTING 7.5' UTILITY EASEMENT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57

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 (A) AND FASTEN WITH 2 EACH 4ø" ϕ DRIVE RIVET OR A 4ø" ϕ BOLT.
3. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREA OF THE BREAKAWAY INFLUENCE AREA AT THE SIGN PANEL LOCATION (ARROWS MAY BE FIELD DRILLED).
4. 3"x 3"x 4'-1" BASE POST OF 3/16" WALL THICKNESS TO BE USED WITH 2½"x 2½"x 0.1345 POST.

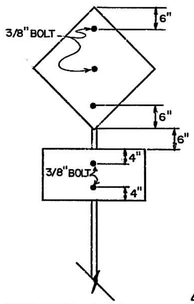


BOLTS AND LOCKNUT-SIGN ATTACHMENT

* 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-304 grade 316. Nuts shall be 3/8" - 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 695 Class 25.

SCALE 1"=50'

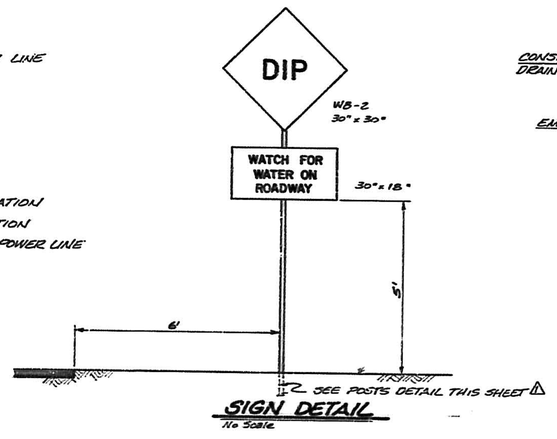


BOLT PATTERN & SIGN SPACING

NO SCALE

LEGEND

5000	EXISTING CONTOUR LINE
ϕ 47.83	EXISTING SPOT ELEVATION
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 TREES
48	NEW CONTOUR LINE
ϕ 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
F. 07.71	FLOW LINE ELEVATION
OE	EXISTING OVERHEAD POWER LINE



SIGN DETAIL

No Scale

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

AS BUILT INFORMATION
BENCH MARKS
ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND PATHHILL DR. SW, A 60-PENNY NAIL IN POWER POLE
ELEVATION = 4966.195 FEET (NGVD)
CONTRACTOR
WORK BY
INSPECTIONS
ACCEPTANCE BY
DATE
VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	7-9-85	ADD POST DETAIL	DAL

REVISIONS
DESIGN
DESIGNED BY DAL — DATE SEPT, 1984
DRAWN BY TKW — DATE SEPT, 1984
CHECKED BY DAL — DATE SEPT 1984

2 6 | 1 9 6 6 | 0 2 8 5

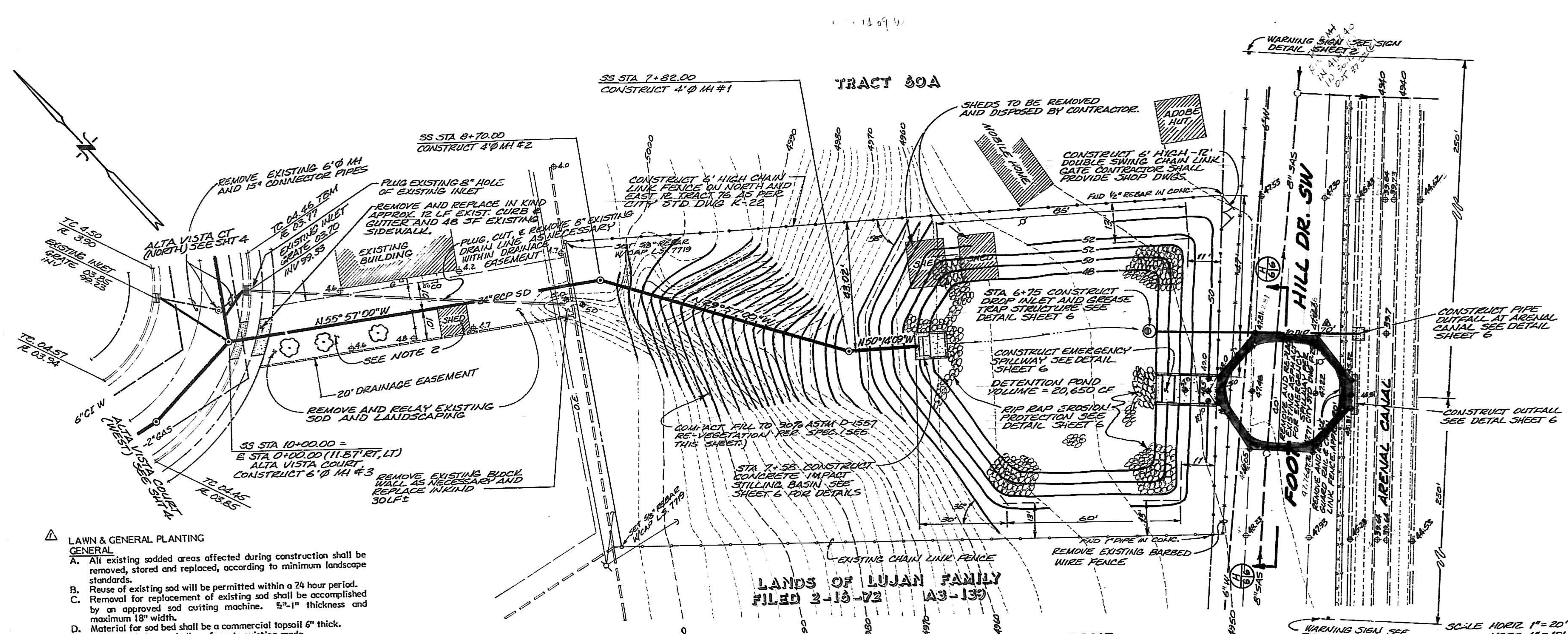
ESPEY, HUSTON & ASSOC., INC.
Engineering & Environmental Consultants
4401 INDIAN SCHOOL ROAD NE SUITE 204
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 255-1625

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		12/5/84	Liquid Waste		12/5/84
A.C.E.-Design		12/20/84	Traffic		12/5/84
A.C.E.-Hydrology		11/21/84	Water		12/5/84
County Roads Dept		12/19/84	MRGCD		12/12/84

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



NOTES:

1) DETENTION POND AND EARTH BERM SHALL BE COMPACTED TO 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 SISNS 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 mucilcid 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

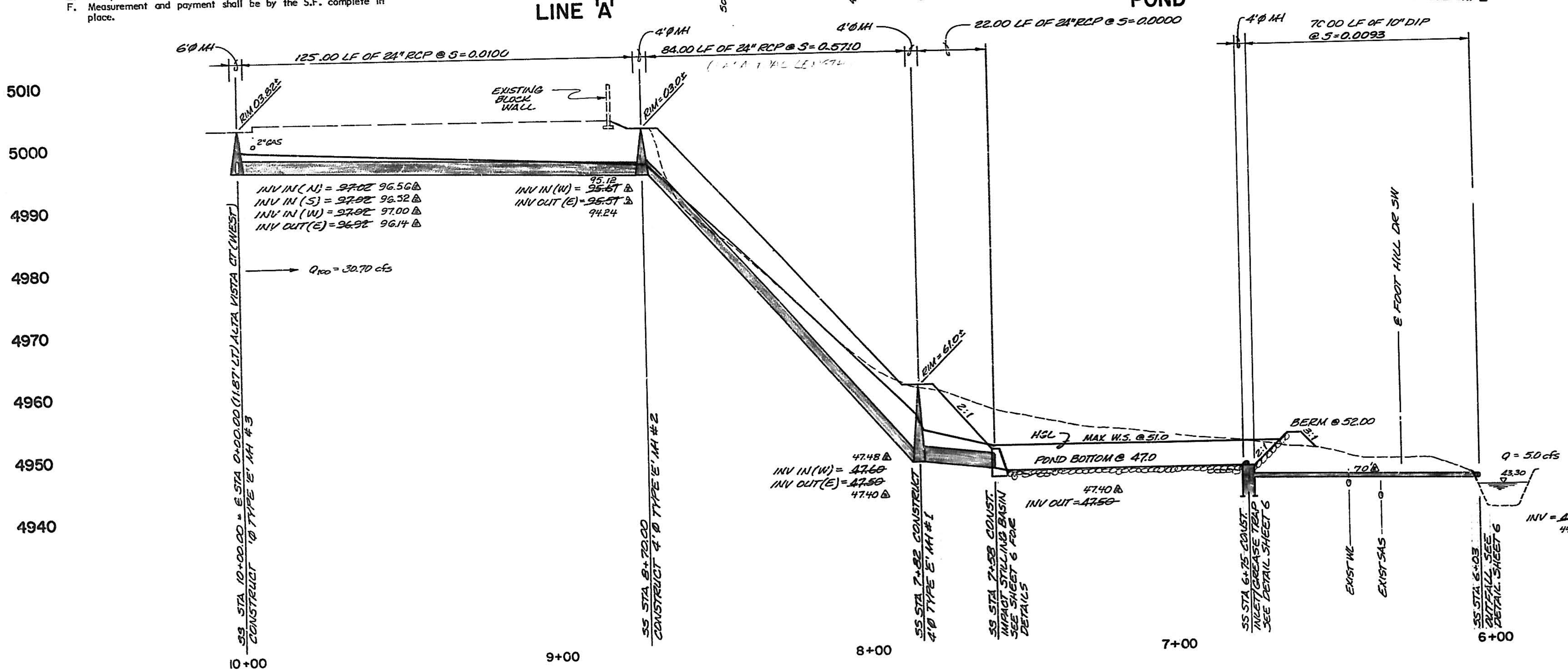
ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOTHILL DR. SW. A 60 PENNY NAIL IN POWER POLE ELEVATION = 4966.135 FEET (MSLD)

⚠ 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.

LINE 'A'

POND



⚠ 1	10-23-85 / 1-9-85	REVISION FROM AS-BUILT DRAWINGS / ADD LAWN & GENERAL PLANTING NOTE
DESIGNED BY	DAL	DATE SEPT. 1984
DRAWN BY	TXW	DATE SEPT. 1984
CHECKED BY	DAL	DATE SEPT 1984

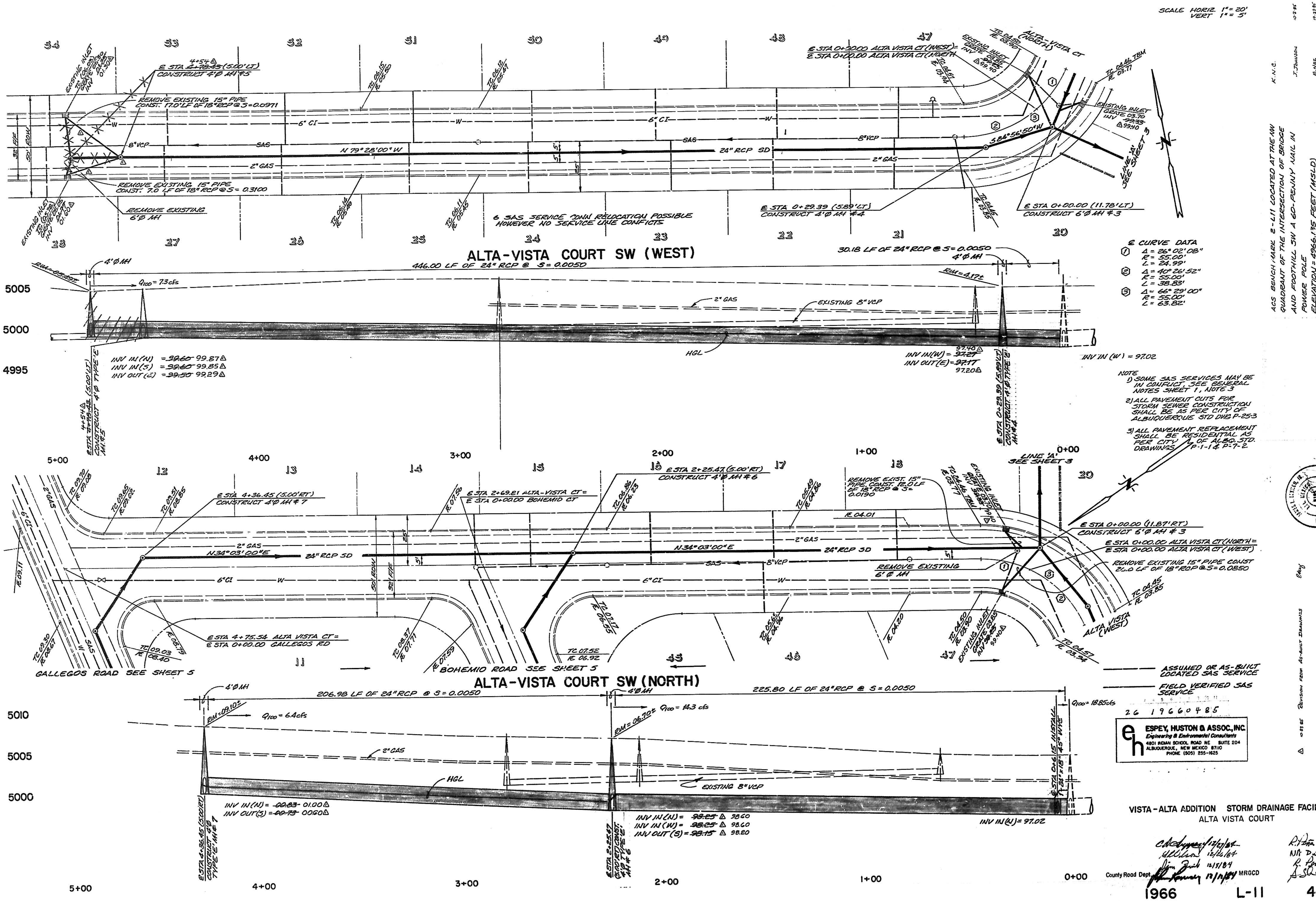
26 19660385

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

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

County Road Dept — MRGCD

1966 L-11 3 6



26 19660485

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

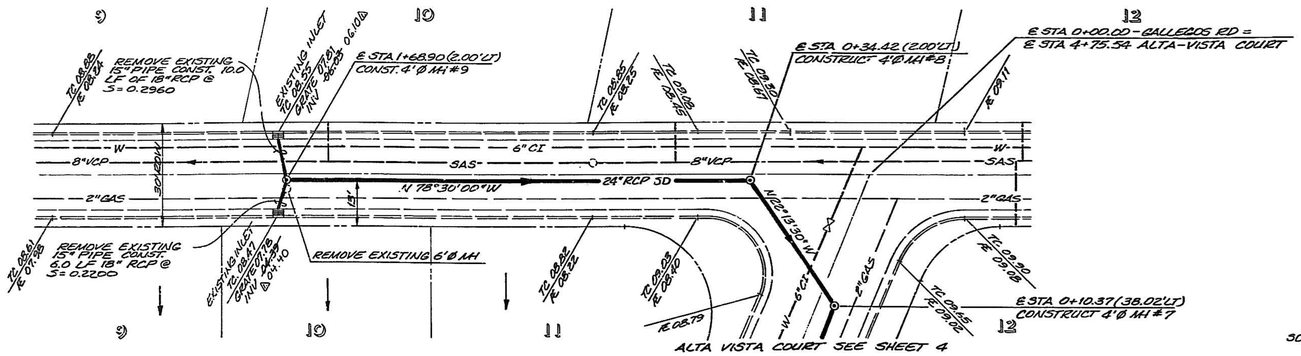
DESIGNED BY D.A.L. DATE SEPT. 1984
DRAWN BY TKW DATE SEPT. 1984
CHECKED BY D.A.L. DATE SEPT 1984

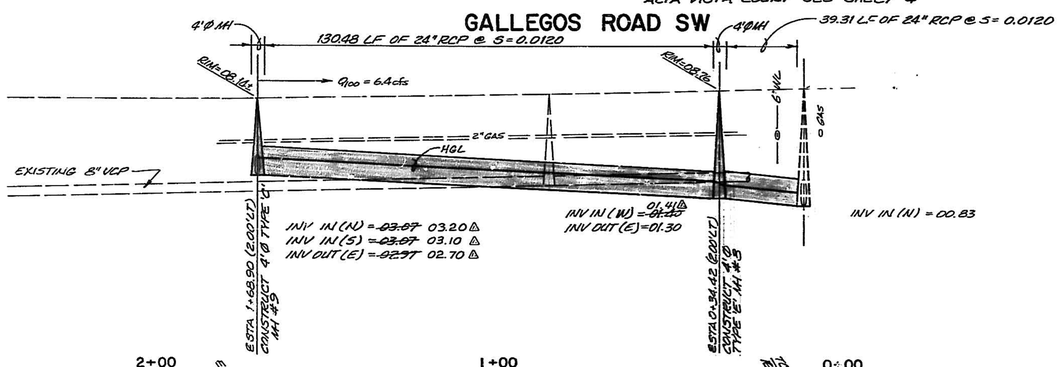
Δ REVISION FROM AS-BUILT DRAWINGS

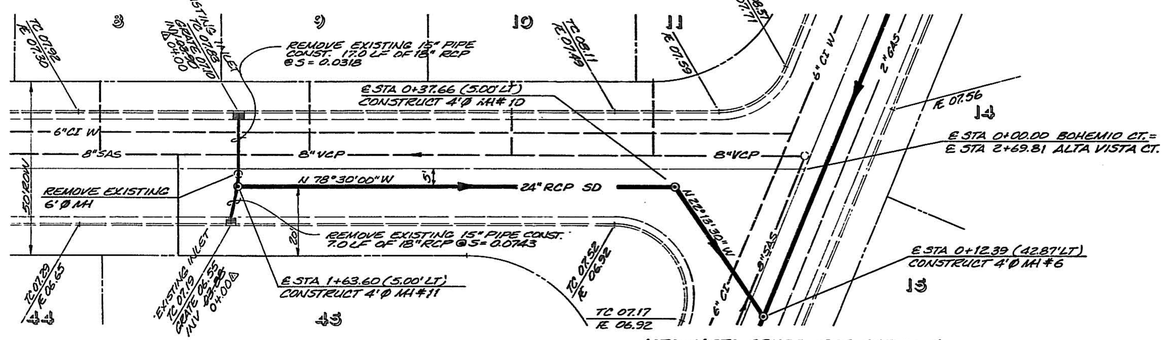
VISTA-ALTA ADDITION STORM DRAINAGE FACILITIES
ALTA VISTA COURT

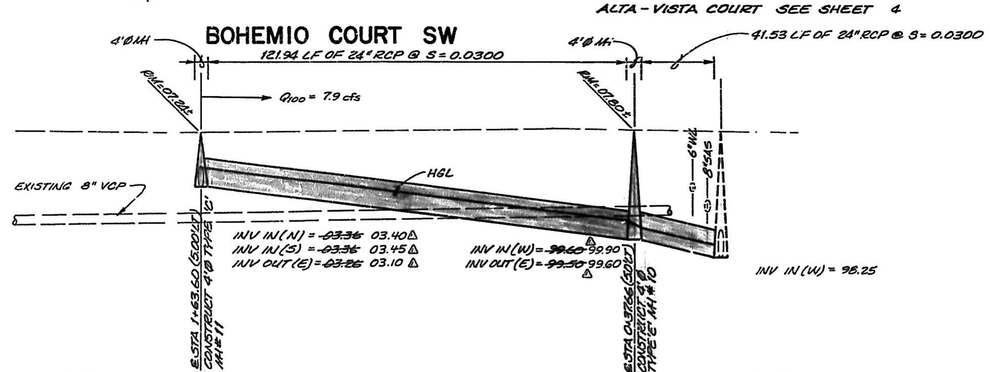
County Road Dept. MRGCD

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 RESIDENTIAL 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

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

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

ACS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOTHILL DR. SW, A GO-PENNY NAIL IN POWER POLE
ELEVATION = 4956.135 FEET (NGVD)

K.N.C. 10385
J. JOHNSON 10385
E. NEZ. 10385

Δ 4-23-85 REVISION FROM AS-BUILT DRAWINGS

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

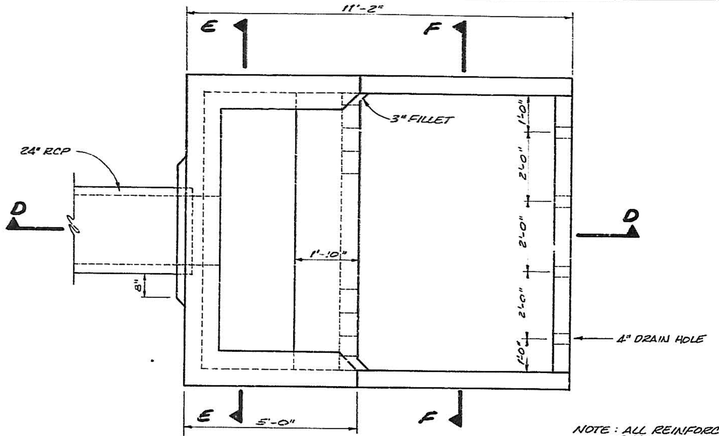
26 19660585

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

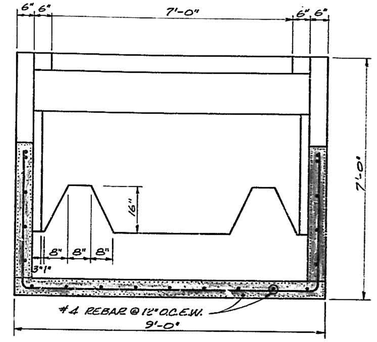
	12/20/84		12/5/84
	12/26/84	NA DWH	12/5/84
	12/15/84		12/5/84
County Road Dept.	12/19/84 RGCD		12/12/84

1966 L-11 5 6

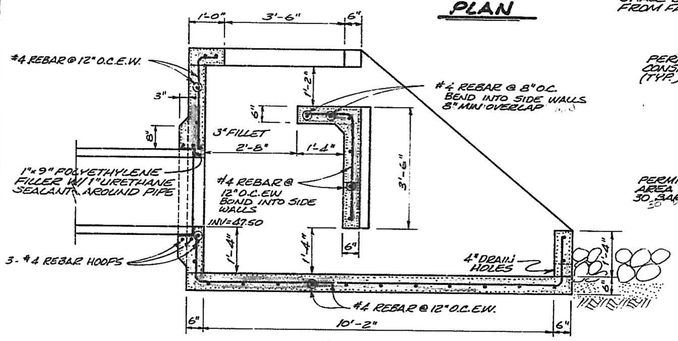
IMPACT STILLING BASIN



PLAN

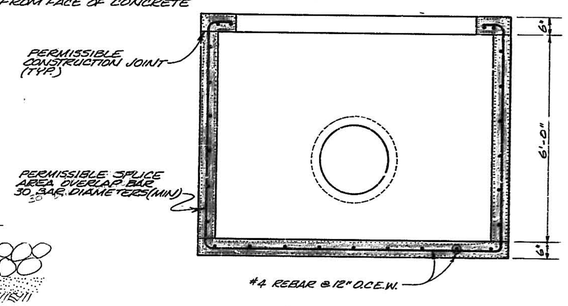


SECTION F-F

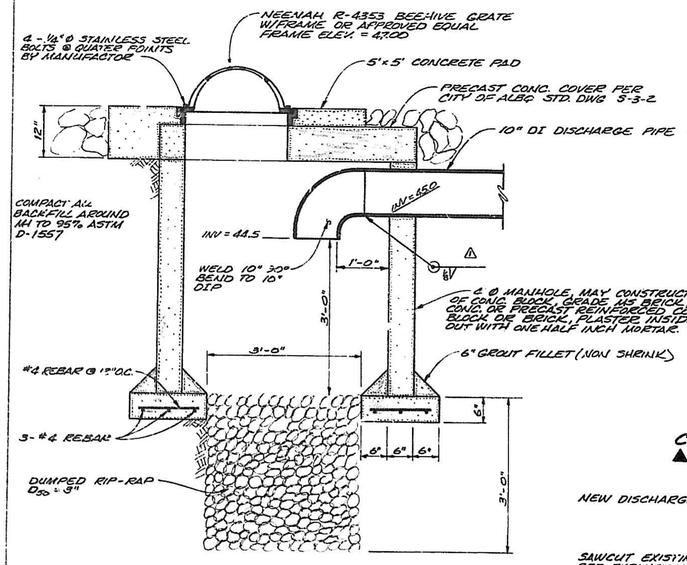


SECTION D-D

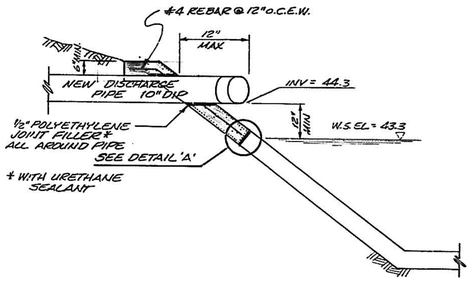
NOTE : ALL REINFORCING STEEL SHALL BE PLACED 2½" CLEAR FROM FACE OF CONCRETE



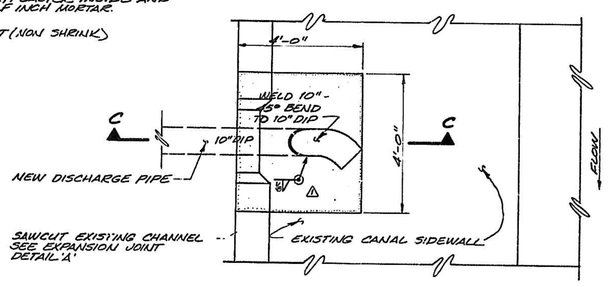
SECTION E-E



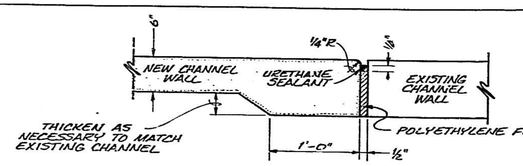
INLET / GREASE TRAP DETAIL



SECTION C-C

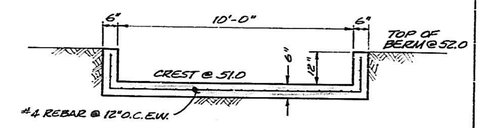


OUTFALL DETAIL

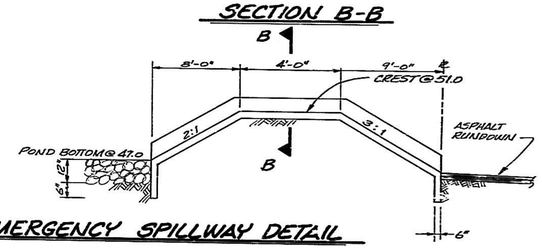


EXPANSION JOINT - DETAIL 'A'

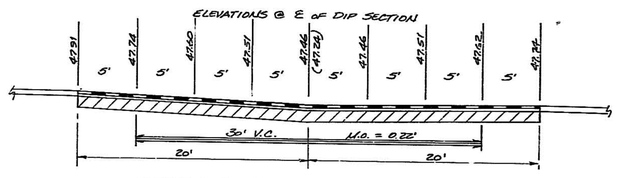
NO SCALE



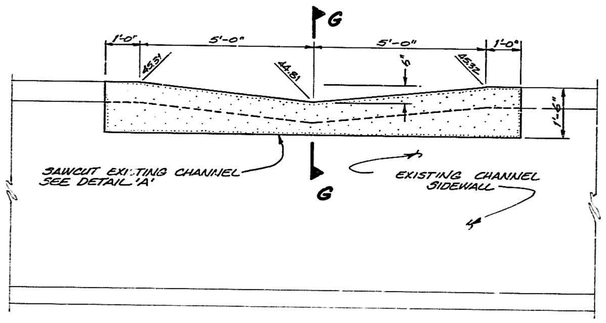
SECTION B-B



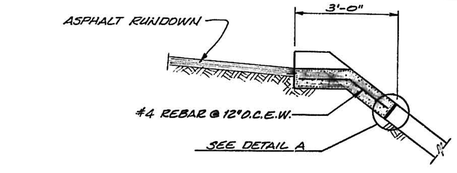
EMERGENCY SPILLWAY DETAIL



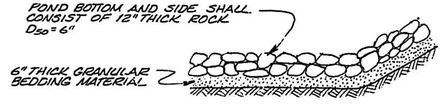
SECTION H-H FOOT HILL DR. (SEE SHEET 3)



EMERGENCY SPILLWAY OUTFALL DETAIL



SECTION G-G



POND LINING

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

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS
AS BUILT INFORMATION
AGS BENCH MARK 2-L11 LOCATED AT THE NW QUADRANT OF THE INTERSECTION OF BRIDGE AND FOOT HILL DR. SW 1.60 FEAWAY FROM 1N POWER POLE.
ELEVATION = 4966.135 FEET (MSL.D)

CONTRACTOR
WORK STARTED BY DATE
INSPECTED BY DATE
ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS CHECKED BY DATE
MICRO-FILM INFORMATION
RECORDED BY
NO DATE

ENGINEER'S SEAL
LESLIE L. LEYBA JR. NEW MEXICO 9105 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	1-9-85	ADD WELD SYMBOL	DAL

REVISIONS
DESIGN
DESIGNED BY D.A.L. DATE SEPT. 1984
DRAWN BY TKW 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		12/27/84	Liquid Waste	R. Leyba	12/6/84
A.C.E.- Design		12/26/84	Traffic	DA Duh	12/5/84
A.C.E.- Hydrology		12/5/84	Water	R. Leyba	12/6/84
County Road Dept.		12/27/84	MRGCD	A. Shah	12/10/84

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