HYDROLOGY M15/D25 3 PLANS

M15/D25

3 PLANS

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

September 30, 1987

Paul Laudenschlager
BPLW
2400 Louisiana Boulevard, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR AIRLINE PROVISIONING BUILDING
(M-15/D25) RECEIVED SEPTEMBER 18, 1987

Dear Mr. Laudenschlager:

The above referenced plan dated September 9, 1987 (Revision 4) is approved for Building Permit. City Construction inspection will inspect the project.

Prior to release of a Certificate of Occupancy, we will need written acceptance of the project.

Should you have any questions, please call me at 768-2650.

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

cc: Russel Givler

DRAINAGE INFORMATION SHEET

PROJECT TITLE: AIRLINE PROVISIONING BLDG ONE ATLAS/DRNG. FILE #: M15/D25

LEGAL DESCRIPTION: SEE DWG C-2

CITY ADDRESS: ALBQ INTERNATIONAL AIRPORT

ENGINEERING FIRM: BPLW CONTACT: PAUL LAUDENSCHLAGER

ADDRESS: 2400 LOUISIANA BLVD NE ALBQ, NM 87110 PHONE: 842-4122 OR 881-2759

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: BPLW CONTACT: MIKE HORTE

ADDRESS: SAME PHONE: 881-2759

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED SEP 25 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

✓ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

✓ OTHER REVISION to PROVIDES BLD PERMIT APPROVAL (SPECIFY)

DATE SUBMITTED: 9/25/87

BY: Paul Laudenschlager

2920A Yale Boulevard SE Albuquerque, New Mexico 87106 Telephone 505-842-4422

THE BURNS•PETERS GROUP, P.A.

Architects & Planners

September 17, 1987

RECEIVED
SEP 18 1987
HYDROLOGY SECTION

Mr. Carlos Montoya
City of Albuquerque
Hydrology Department
P.O. Box 1293
Albuquerque, NM 87103

Re: Aircraft Provisioning Building
Albuquerque International Airport
Storm Drainage Plan Changes
City Reference Number: M-15/D25
Architect's Project Number: 8666

Dear Mr. Montoya:

In response to your phone request on July 21, 1987, I have enclosed a set of revised civil drawings for your approval which contain the following changes to the storm drainage system.

Refer to Sheet C2B, C3B and C4B:

1. The 21" storm drain was changed to a 24" since 21" RCP was not available locally.

2. The line "A" storm drain alignment was changed from Station 3 + 28 to the outfall to prevent draining onto a new equipment storage yard which was planned and constructed downstream after the original drainage plan was approved.

3. The vertical profile of line "A" was changed because of conflicts with existing water and gas lines. This required replacement of the structure at Station 1 + 83 with a modified single "D" inlet (see Sheet C4B).

4. The outfall structure on line "A" was eliminated since:
   a. The outfall now lands on a flatter slope; and
   b. The storm drain will be extended under a new access road which is scheduled to be built in 1988.

5. The more permanent riprap at the outfall on line "A" was replaced by temporary concrete rubble since this outfall would be moved west when the line is extended under the 1988 access road project.

William L. Burns, AIA Ronald L. Peters, AIA Donald F. Fletcher, AIA Jack R. Alley, AIA Roger Easley

6. Storm drain line "C" was eliminated in favor of surface drainage and paved rundown. This rundown outfalls on an existing graveled road which will be protected temporarily with concrete rubble until the permanent access road and drainage system is constructed in 1988.

7. On Sheet C4B Detail 1, all storm drain inlets were changed to single "D" inlets per the City of Albuquerque Standard Drawing 2206 modified with increased reinforcing to accommodate additional depth.

Except for the minor alignment change noted in Paragraph Two all of the above changes do not change the downstream run off volumes or the flow patterns described in Note 13 and C2B.

The project is now under construction, thus I would like to ask if you have any major concerns about the design that you call me at the earliest possible moment.

Thank you for your review and expected approval of these modifications. Please do not hesitate to call me at 842-4422 if you have any questions.

Sincerely,

Paul Laudenschlager

Paul Laudenschlager, P.E.
THE BURNS/PETERS GROUP, P.A.

/sn

Enclosure

cc: Charlie Otero
Mike Norte

2920A Yale Boulevard SE Albuquerque, New Mexico 87106 Telephone 505-842-4422

THE BURNS•PETERS GROUP, P.A.

Date: 9/17/87

RECEIVED SEP 18 1987 HYDROLOGY SECTION

ATTN: CARLOS MONTOYA

PROJECT: (name, address) PROVISIONING BLD
AT ALBQ INTL AIRPORT
CITY REF No. M15/D25

PROJECT NO: 8666

If checked below, please:
( ) Acknowledge receipt of enclosures.
( ) Return enclosures to us.

We Transmit the Following:

Copies	Description
1	24x36 Sheet C3B REVISION △ 7/28/87
1	LETTER DATED 9/17/87

If enclosures are not as noted, please inform us immediately.

Remarks:
THIS SHEET WAS INADVERTANTLY LEFT OUT OF THE PACKET SENT EARLIER TODAY WITH THE ATTACHED LETTER.

9/18 rec'd

Copies to:

By Paul Vandenberg Mages

William L. Burns, AIA • Ronald L. Peters, AIA • Donald F. Fletcher, AIA • Jack R. Alley, AIA • Roger Easley

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

May 4, 1987

Paul Laudenschlager
BPLW
2400 Louisiana Boulevard, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR AIRLINE PROVISIONING BUILDING (M-15/D25)
RECEIVED APRIL 16, 1987

Dear Mr. Laudenschlager:

The above referenced plan dated March 24, 1987, is approved for Building Permit. City Construction inspection will inspect the project. Prior to release of a Certificate of Occupancy, we will need written acceptance of the project.

If you should have any questions, please call me at 768-2650.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

cc: Russel Givler

CAM/bsj

BPLW Architects & Engineers, Inc.
2400 LOUISIANA BLVD. NE - AFC #5 - SUITE 400
ALBUQUERQUE, NEW MEXICO 87110 (505) 881-2759

JOB: [illegible] ELC, DRAINAGE CALC.
SHEET NO. _____ OF 11
CALCULATED BY: [illegible] DATE: 1-12-87
CHECKED BY _____ DATE _____
SCALE _____

DRAINAGE CALCULATION PROCEDURE

1) ONSITE FLOWS

AREA < 320 AC ∴ ONSITE FLOWS ARE CALCULATED USING THE RATIONAL FORMULA AS OUTLINED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL V-2 SECTION 22.2.

$Q = CiA$

Q_{100} = PEAK FLOW VOLUME (CFS) - 6 HR. - 100 YR FREQUENCY

C = RUNOFF COEFFICIENT

STREETS, DRIVES, WALKS	= 0.95
ROOFS	= 0.90
LAWNS & LANDSCAPING	= 0.25
UNDEVELOPED	= 0.40

A = AREA (ACRES)

$i = P_6 (6.84) t_c^{-0.51} = 4.86$ IN/HR (PLATE 22.2 D-3)

P_6 = 6 HR RAINFALL VOL., 100 YR FREQ, = 2.3" (PLATE 22.2 D-1)

t_c = 10 MIN (MINIMUM)

2) OFFSITE FLOWS

OFFSITE FLOWS TO THE INLET AT ANALYSIS POINTS 8B AND TO THE STORM DRAIN LINE IT FLOWS INTO ARE UNCHANGED BY THIS PROJECT. PEAK FLOW VOLUMES (6 HR, 100 YR FREQUENCY) ARE REPORTED DIRECTLY FROM THE GRADING AND DRAINAGE PLAN FOR THE PROVISIONING AND POST OFFICE SITE DRAWING 2827, SHEET C-10, BY GREINER ENGINEERING, 8-5-86. THESE CALCULATIONS EMPLOY THE UNIT HYDROGRAPH METHOD.

ALL REFERENCES TO PLATES ARE FROM CITY OF ALBQ, DEVELOPMENT PROCESS MANUAL VOLUME 2.

ALBUQUERQUE CODE ADMIN.
MAR 30 1987
UBC
PLAN CHECK SECTION
RECEIVED APR 10 1987 ENGINEERING DIVISION

BPLW Architects & Engineers, Inc.
2400 LOUISIANA BLVD. NE - AFC #5 - SUITE 400
ALBUQUERQUE, NEW MEXICO 87110 (505) 881-2759

JOB: PROVIDENCE BLD/DRAINAGE CALCS
SHEET NO. 6 OF 11
CALCULATED BY: PAUL LAUDENSCHLAGER DATE: 1-15-87
CHECKED BY: _____ DATE: _____

DRAINAGE CALCULATIONS

LINE "A"

STA 0+00 (ANALYSIS PT 2A)/OFFSITE

TOTAL AREA = 1.65 ac
ASPHALT AREA = 1.49 ac C = 0.95
ROOF AREA = 0.16 ac C = 0.90

$$C = \frac{(1.49)(0.95) + (0.16)(0.90)}{1.65} = 0.95$$

$$Q_{100} = CiA = (0.95)(4.86)(1.65) = \underline{7.6 \text{ CFS}}$$

STA. 1+83 (ANALYSIS PT. 3A)
RATIONAL FORMULA

TOTAL AREA = 0.73 ac
UNIMPROVED AREA (DIRT) = 0.61 ac C = 0.40
ASPHALT AREA = 0.12 ac C = 0.95

$$C = \frac{(0.61)(0.40) + (0.12)(0.95)}{0.73} = 0.49 \text{ (WEIGHTED AVG.)}$$

$$Q_{100} = CiA = (0.49)(4.86)(0.73) = \underline{1.7 \text{ CFS}}$$

STA. 3+28 (ANALYSIS PT. 4A)

TOTAL AREA = 0.46 ac
ASPHALT AREA = 0.34 ac C = 0.95
ROOF AREA = 0.12 ac C = 0.90

$$C = \frac{(0.34)(0.95) + (0.12)(0.90)}{0.46} = 0.94 \text{ (WEIGHTED AVG.)}$$

$$Q_{100} = CiA = (0.94)(4.86)(0.46) = \underline{2.1 \text{ CFS}}$$

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APR 16 1987
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MAY 30 1987
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BPLW Architects & Engineers, Inc.
2400 LOUISIANA BLVD. NE - AFC #5 - SUITE 400
ALBUQUERQUE, NEW MEXICO 87110 (505) 881-2759

JOB: PROV. BLD. / DRAINAGE CALCS
SHEET NO. 4 OF 11
CALCULATED BY: P.L. DATE: 1-15-87
CHECKED BY: DATE:
SCALE:

LINE B (4" PVC) (A SUBPART OF FLOW INTO LINE A @ STA. 3+28)

AREA = 1600 SF = 0.04 ac

C = 0.95 PAVED AREA

$Q_{100} = CiA = (0.95)(4.86)(0.04) = 0.18$ CFS

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SECTION

PRODUCT 204-1 NEBS Inc. Dallas, Tex. 75371

BPLW Architects & Engineers, Inc.
2400 LOUISIANA BLVD. NE - AFC #5 - SUITE 400
ALBUQUERQUE, NEW MEXICO 87110 (505) 881-2759

JOB: PROVISIONAL IG BLD / DRAINAGE CALCS
SHEET NO. 5 OF 11
CALCULATED BY: PAUL LAUGENSCHMIDT DATE: 1-15-87
CHECKED BY: DATE:
SCALE:

LINE "C"

STA 0+00 (ANALYSIS PT. 1C)

TOTAL AREA = 0.60 ac
ASPHALT AREA = 0.48 ac C = 0.95
ROOF AREA = 0.12 ac C = 0.90

$$C = \frac{(0.48)(0.95) + (0.12)(0.90)}{0.60} = 0.94 \text{ (WEIGHTED AVG)}$$

$$Q_{100} = CiA = (0.94)(4.86)(0.60) = \underline{2.7 \text{ CFS}}$$

OFFSITE FLOWS
ANALYSIS POINT 3B / OFFSITE

FLOW REPORTED BY GREWER ENGINEERING DWG 2827 IS AS FOLLOWS:

A = 3.42 AC
Tc = 4.9: USE 10 MIN
POINT RAINFALL = 2.3" FROM PLATE 22.2 D-1
CH = 94 FROM PLATE 22.2 C-2 & C-3
RUNOFF VOLUME = 1.7" FROM PLATE 22.2 C-4

$$qp = \frac{45.4 \times 3.42}{10} = 15.55 \text{ CFS/IN RUNOFF}$$

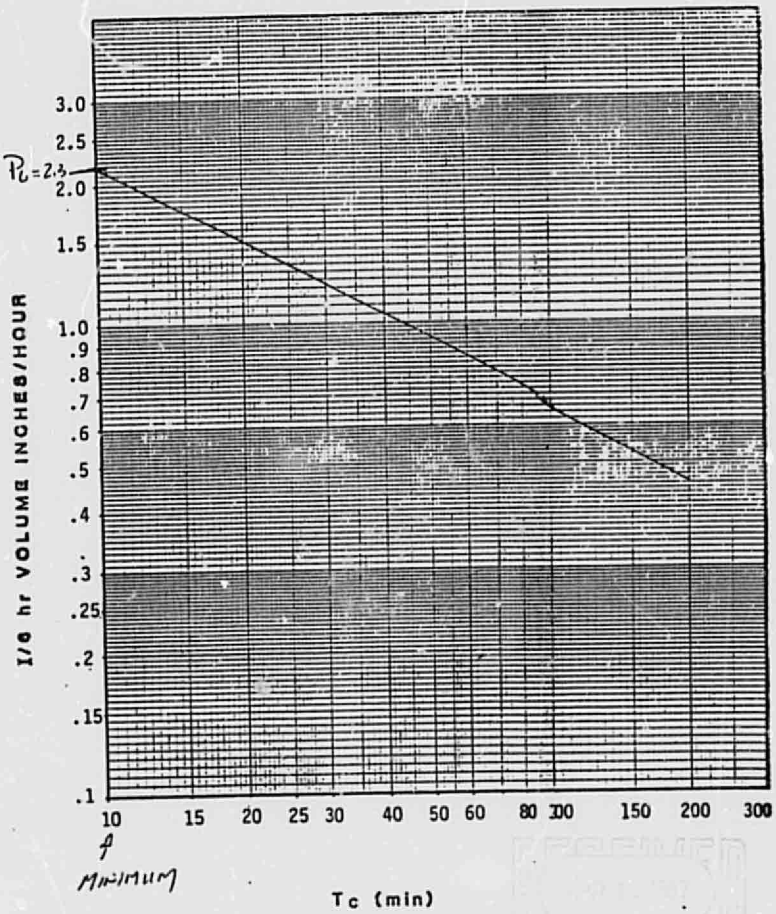
$$R \times qp = Q_{PEAK} = 26.4 \text{ CFS}$$

ALBUQUERQUE
CODE
MAR 30 1987
U.B.C.
PLAN CHECK
SECTION

6/11

DIMENSIONLE[illegible]

I=(6-hr. rain)[illegible] -0.51



NOTE: To get actual intensities, multiply rainfall volume from plate D-1 by value from curve. Use reduction factors on Plate D-1 for other than 100-yr.

APPROVED FOR CODE APPLICATION MAR 2 0 1987 U.B.C. PLAN CHECK

PLATE 22.2 D-2

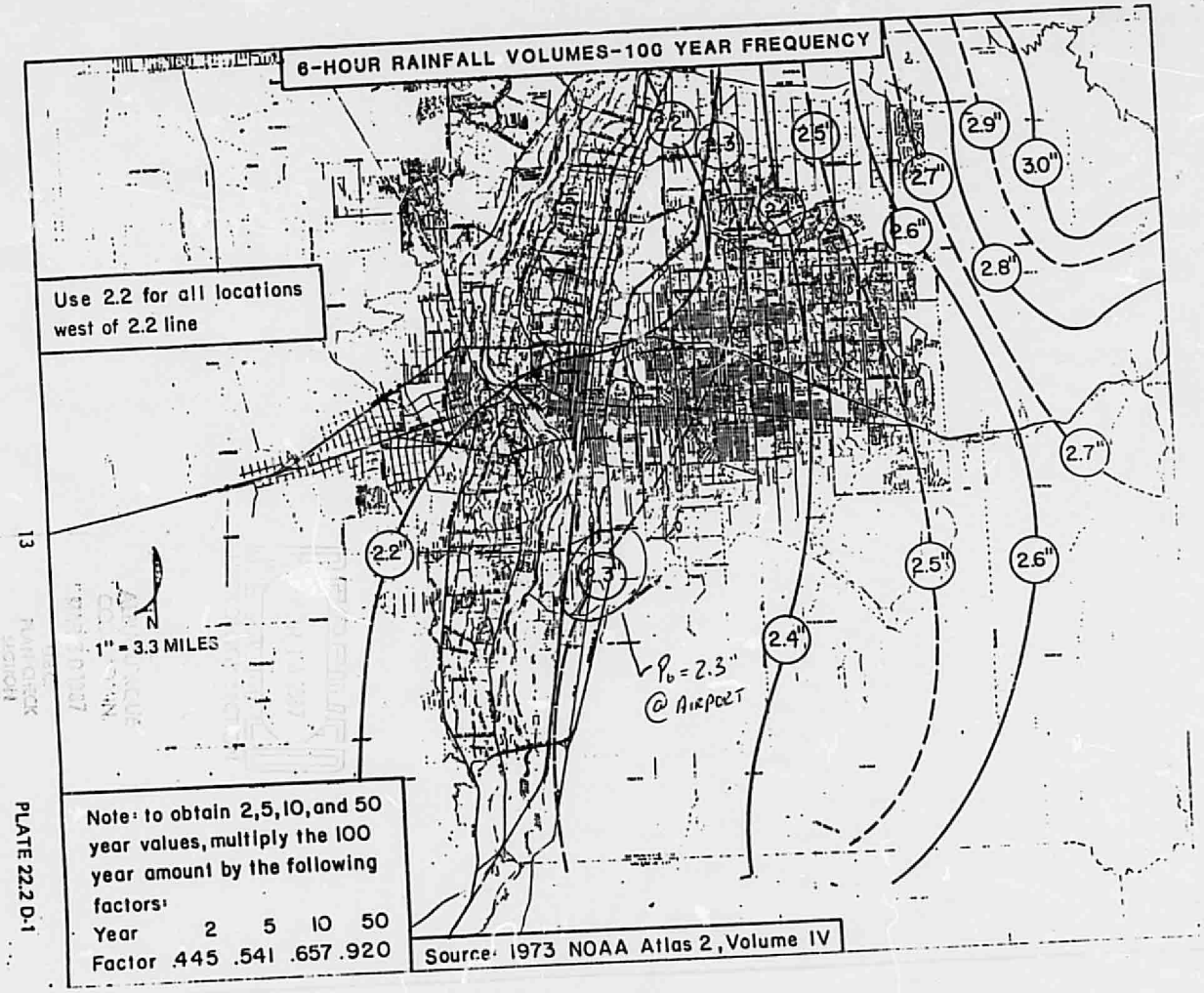
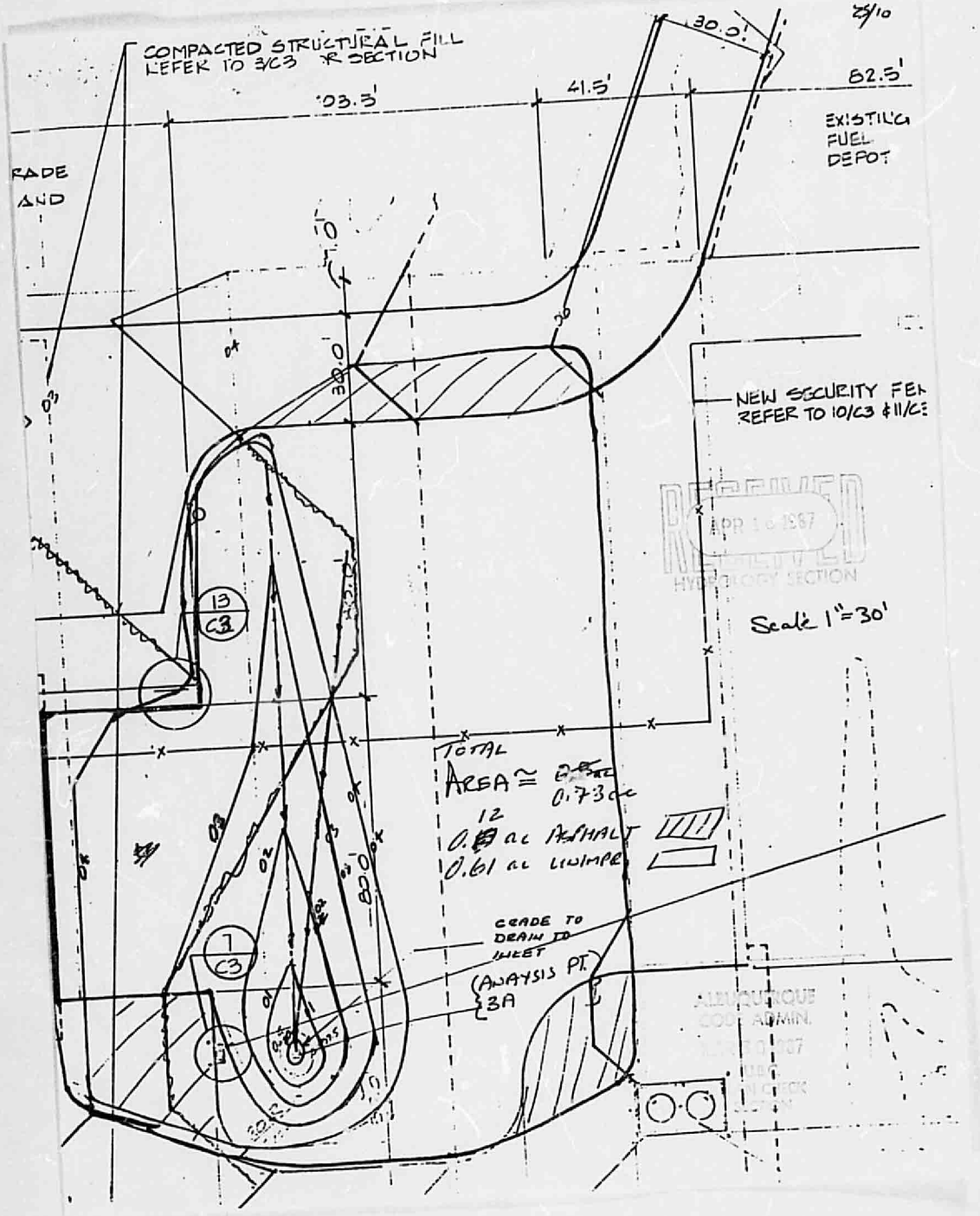
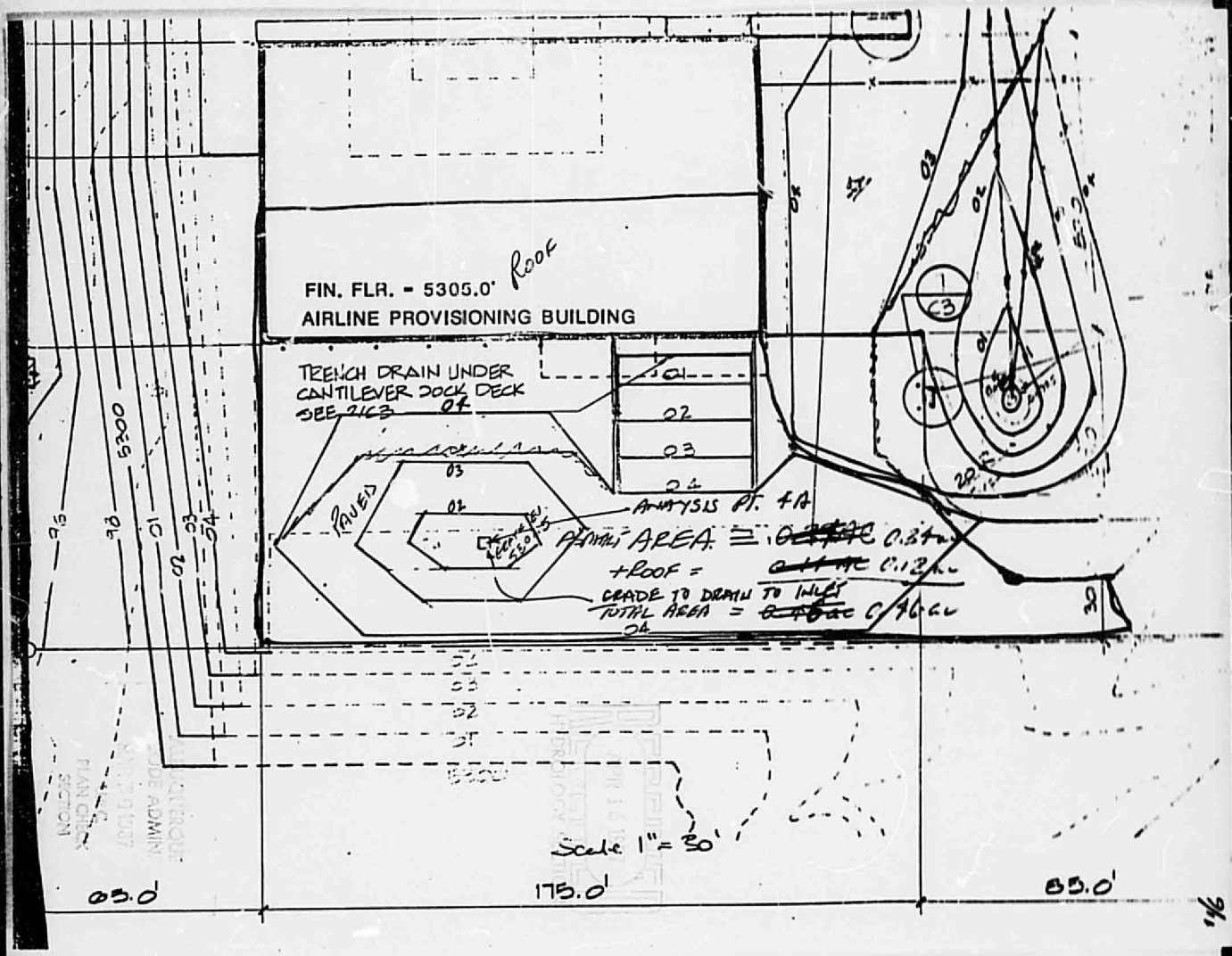
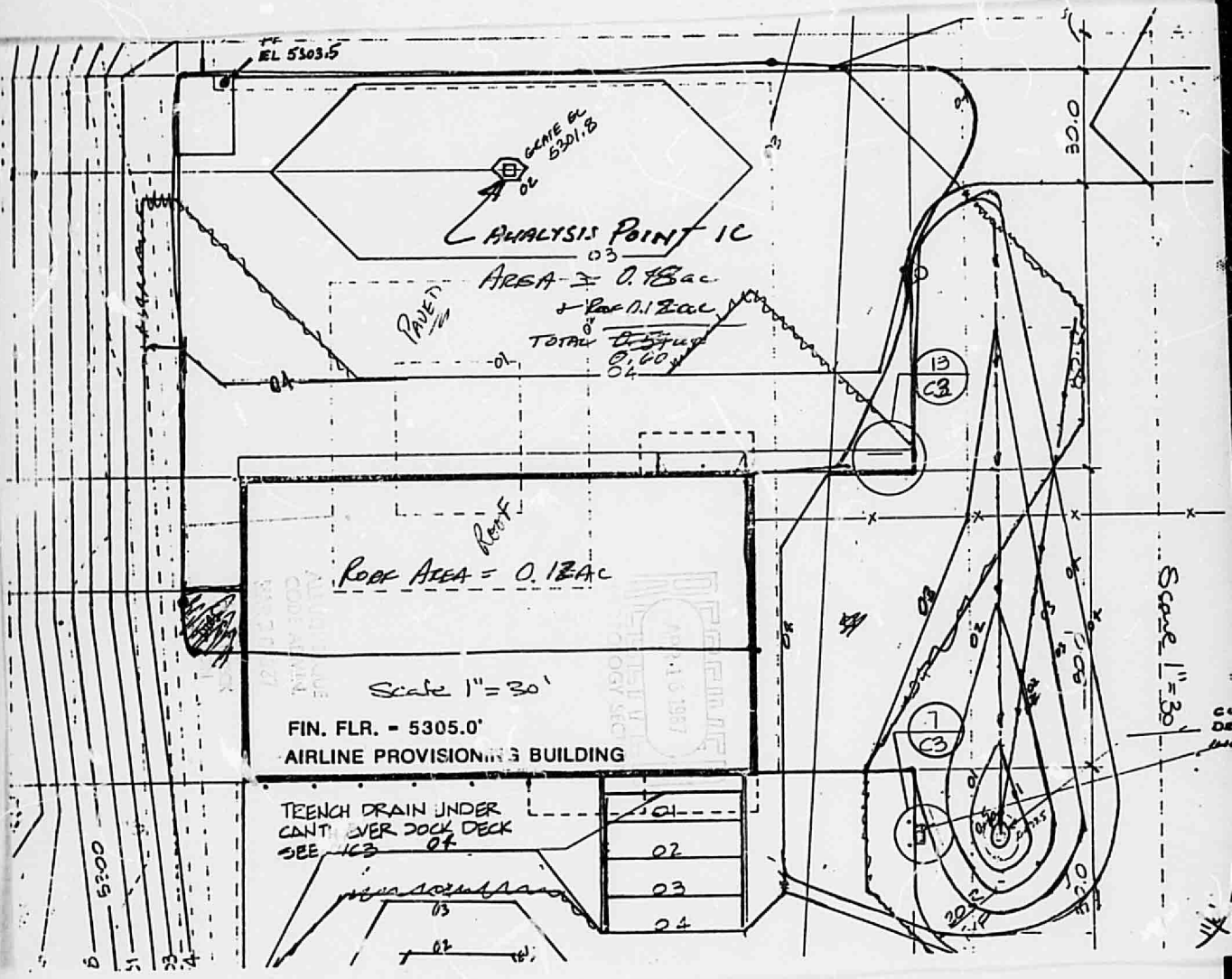

6-HOUR RAINFALL VOLUMES-100 YEAR FREQUENCY
Use 2.2 for all locations west of 2.2 line
2.2"
2.3
2.4"
2.5"
2.6"
2.7"
2.8"
2.9"
3.0"
1" = 3.3 MILES
N
P_6 = 2.3" @ AIRPORT
Note: to obtain 2,5,10, and 50 year values, multiply the 100 year amount by the following factors:
Year 2 5 10 50
Factor .445 .541 .657 .920
Source: 1973 NOAA Atlas 2, Volume IV

PLATE 22.2 D-1


COMPACTED STRUCTURAL FILL
REFER TO 3/C3 & SECTION
103.3'
41.5'
30.0'
82.5'
EXISTING FUEL DEPOT
RADE AND
NEW SECURITY FEN
REFER TO 10/C3 & 11/C3
13
C3
7
C3
Scale 1" = 30'
TOTAL
AREA ≈ 0.73 ac
0.12 ac ASPHALT
0.61 ac LIMPRV
GRADE TO DRAIN TO INLET
(ANALYSIS PT.)
3A
RECEIVED
APR 16 1987
HYDROLOGY SECTION
ALBUQUERQUE
CODE ADMIN.


FIN. FLR. = 5305.0'
ROOF
AIRLINE PROVISIONING BUILDING
TRENCH DRAIN UNDER
CANTILEVER DOCK DECK
SEE 2/C3
01
02
03
04
PAVED
ANALYSIS PT. #A
PAVED AREA = 0.34 ac
+ROOF = 0.12 ac
GRADE TO DRAIN TO INLET
TOTAL AREA = 0.46 ac
Scale 1" = 30'
65.0'
175.0'
65.0'


EL 5303.5
GATE @ 5301.8
ANALYSIS POINT 1C
AREA = 0.18ac
+ Roof 0.12ac
TOTAL 0.60
PAVED
Roof
ROOF AREA = 0.12AC
Scale 1" = 30'
FIN. FLR. = 5305.0'
AIRLINE PROVISIONING BUILDING
TRENCH DRAIN UNDER
CANTILEVER DOCK DECK
SEE C3
01
02
03
04
30.0
13
C3
7
C3
5300
Scale 1" = 30'

SUMMARY OF HYDRAULIC CALCULATIONS

CLOSED CONDUIT — STORM DRAIN

PROJECT: REDIVIDING BLD. LINE: A & C

BY: PAUL LAIDENSCHLAGER
DATE: 1-15-87
SHEET: 1 OF: 1

ELEV. INV. (FT.)	1 STATION	2 STRUCT	3 D (IN)	4 Q (CFS)	5 A (FT²)	6 V FPS	7 K	8 S_o (SLOPE)	9 L (FEET)	10 Δ ELEV	11 JUNCTION D	12 JUNCTION θ	13 LOSSES h_f	14 h_b	15 h_j	16 h_{mh}	17 h_{ij}	18 h_{misc}	19 Σ	20 E.G.	21 h_v	22 H.G.
5298.9	0+00	INLET																				94.76 (USE INV. = 9)
		2-4A	21	7.6	2.403	3.2		0.066	180	3.30			0.42	0.02		0.08			0.52			
5295.6	1+83	INLET		4.7																		94.24
		2-5A	21	9.3	"	3.9		0.010	73	2.30			0.50			0.12			0.62			
5293.3	3+28	INLET		2.1																		93.62
		P-4A	21	11.4	"	4.7		0.0150	148	2.22			0.77						0.77			
5291.1	4+76	OUTLET																				92.85 TOP OF PIPE @ OUTLET (MATCH EXISTING SIZE. HGL IS BELOW TOP OF PIPE).
	0+00	TR DRAIN	4	0.2	0.087	2.1																
	0+62	INLET																				
5298.3	0+00	INLET																				MINIMUM SIZE PIPE (HGL BELOW TOP OF PIPE)
			12"	2.7	0.78	3.4			133	2.5			0.6									
5294.0	1+33	OUTFALL																				

MARKS:

MANNING'S n: 0.013 for RCP

1) FRICTIONAL HEAD LOSS (MANNING EQN): $h_f = \frac{4.66\, n^2 L Q^2}{D^{16/3}}$ (FOR CIRCULAR PIPE)

2) MINOR HEAD LOSSES:

manholes: $h_{m.h} = 0.5\left[\frac{v^2}{2g}\right]$

bends: $h_b = K_b\left[\frac{v^2}{2g}\right]$

$K_{b\,36°} = 0.125$ (PLATE 22.3 B-3)

REV. 3.22

PLATE 22.3.35

22.3

BPLW

Architects & Engineers, Inc.

American Financial Center #5
Suite 400
2400 Louisiana Blvd. NE
Albuquerque, New Mexico 87110
505/881-BPLW

Senior Principals
William L. Burns, AIA
Ronald L. Peters, AIA, APA
Joseph U. Long, AIA, PE
Bill J. Waters, AIA
Richard G. Brown, PE
Donald F. Fletcher, AIA
David A. Penasa, PE, MIES
Richard C. Scott, AIA

Principals
Jack R. Alley, AIA
Roger Easley, SMPS
Tyler M. Mason, AIA
Carol L. Meincke, AIA
Vincent A. Mayer, PE
John K. Ostergaard, AIA
Charlie M. Otero, AIA
Eugene A. Valentine, AIA

RECEIVED
APR 16 1987
HYDROLOGY SECTION

March 18, 1987

Mr. Carlos Montoya
City of Albuquerque
Utility Development Division
Hydrology Section
P.O. Box 1293
Albuquerque, NM 87103

Re: Drainage Plan for Airline Provisioning Building
(M-15/D25) Sent January 29, 1987
Architect's Project Number: 8666

Dear Mr. Montoya:

I have addressed the review comments in your March 5, 1987 letter as follows:

1. Horizontal Control: We've provided dimensions from the building, property lines and other facilities to all storm drain structures in addition to stationing the storm drain lines.

2. a. Outfall Structure Design: Structural design and hydraulic considerations are based on previous designs and experience designing, constructing and monitoring similar structures. The previous designs were based on California Department of Transporation design standards.

   b. Size of Riprap: We've added a note on Detail 9, Sheet C-4 which refers to City of Albuquerque Interim Standard Specification Section 603.

3. Destination of Outfall Flows: We've added Note 13 on Sheet C-2 to address this issue.

4. Soil Compaction under Storm Drain and Outfall Structures: We've corrected Technical Specification Section 02720 "Storm Sewage Systems" Item 1.02 of the Technical Specifications to reference Section 02221 "Trenching, Backfilling and Compacting" instead of Section 02200 "Earthwork". Corrected specification sections are enclosed. We've also added Note 15 on Sheet C-2 specifying compaction requirements.

ALBUQUERQUE
CODE
MAR 30 1987
U.B.C.
PLAN CHECK
SECTION

Thank you for your comments, they have helped us improve our design. If you have further questions please do not hesitate to call me at 842-4422.

Sincerely,

Paul Laudenschlager

Paul Laudenschlager, PE
BPLW Architects & Engineers, Inc.

/sn

Encl.

ALBUQUERQUE
CODE ADMIN.
MAR 30 1987
U.B.C.
PLAN CHECK
SECTION

DRAINAGE INFORMATION SHEET

PROJECT TITLE: AIRLINE PROVISIONING BLDG ONE ATLAS/DRNG. FILE #: M15/D25

LEGAL DESCRIPTION: SEE DWG C-2

CITY ADDRESS: ALBQ INTERNATIONAL AIRPORT

ENGINEERING FIRM: BPLW CONTACT: PAUL LAUDENSCHLAGER

ADDRESS: 2400 LOUISIANA BLVD, NE ALBQ, NM 87110 PHONE: 842-4122 OR 881-2759

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: BPLW CONTACT: MIKE NORTE

ADDRESS: SAME PHONE: 881-2759

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED APR 16 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

✓ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

✓ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

ALBUQUERQUE ADMIN

APR 16 1987

P.R.C. PLAN CHECK SECTION

DATE SUBMITTED: 4·16·87

BY: Norte

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

March 5, 1987

Paul Laudenschlager
BPLW
2400 Louisiana Blvd., NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR AIRLINE PROVISIONING BUILDING
(M-15/D25) RECEIVED JANUARY 29, 1987

Dear Mr. Laudenschlager:

I have reviewed the referenced plan and forward the following comments:

1. Need horizontal control for the storm drain system.

2. Please submit the outfall structures design calculations or charts. Please indicate size of riprap for the outfall.

3. Please address where the flows will outfall to, downstream of the site.

4. Address what type of soil compaction is needed below storm drain and outfall structures.

If you have any questions, call me at 768-2650.

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bs;

DRAINAGE INFORMATION SHEET

PROJECT TITLE: AIRLINE PROVISIONING BLDG ONE ATLAS/DRNG. FILE #: M15/D25

LEGAL DESCRIPTION: SEE DWG C-2

CITY ADDRESS: ALBQ INTERNATIONAL AIRPORT 3113 Yale Blvd, SE

ENGINEERING FIRM: BPLW CONTACT: PAUL LAUDENSCHLAGER

ADDRESS: 2400 LOUISIANA BLVD NE ALBQ, NM 87110 PHONE: 842-4122 OR 881-2759

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: BPLW CONTACT: MIKE HORTE

ADDRESS: SAME PHONE: 881-2759

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED JAN 29 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

✓ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

✓ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: ___

BY: ___

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: M15 DATE: 1-8-87

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: A Blanco Planning Building

STREET ADDRESS (IF KNOWN): Alby Tater Agent

SUBDIVISION NAME: _____

APPROVAL REQUESTED:

____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
____ OTHER

____ FINAL PLAT
X BUILDING PERMIT
____ ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Paul Landeyschage	
	Carlos A Montoya	

FINDINGS:

① Drainage plan per DPM

② Can free discharge downstream with following criteria (a) Arrival rate (b) watershed upstream the same.

③ Need plan & profile sheet for storm drain.

④ Need details of outlet structure

⑤ Need to show one parcel area

⑥ Type of structure depends on water depth, the author

⑦ Need copy of soil report per drainage ordinance

(8) Site is not in flood hazard area

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED:	Carlos Montoya	SIGNED:	Paul Landeyschage
TITLE:		TITLE:	
DATE:	1-8-87	DATE:	

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

September 4, 1986

John Block
Greiner Engineering
2601 Wyoming Blvd., NE
ALbuquerque, New Mexico 87112

RE: DRAINAGE PLAN FOR PROVISIONING & POST OFFICE
ROUGH GRADING REQUEST RECEIVED AUGUST 5, 1986
(M-15/D25)

Dear Mr. Block:

The above referenced plan, dated August 5, 1986, is approved for rough grading permit.

If you have further questions regarding this project, please call me at 766-7644.

Cordially,

for Bernie J. Montoya
Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ALB. INT'L AIRPORT PROVISIONING & POST OFFICE ZONE ATLAS/DRAINAGE FILE # M15/D25

LEGAL DESCRIPTION: A PORTION OF MUNICIPAL ADDITION NO. 9

CITY ADDRESS: N/A

ENGINEERING FIRM: GREINER ENGINEERING — CONTACT: JOHN BLOCK

ADDRESS: 2601 WYOMING N.E. — PHONE: 292-1936

OWNER: CITY OF ALBUQUERQUE — CONTACT: BOB GURULE

ADDRESS: — PHONE:

ARCHITECT: BURNS PETERS GROUP — CONTACT: RON PETERS

ADDRESS: 8000 PENNSYLVANIA CIR. N.E. — PHONE: 265-3685

SURVEYOR: GREINER ENGINEERING — CONTACT: JIM WINBORG

ADDRESS: SAME — PHONE: 292-1936

CONTRACTOR: — CONTACT:

ADDRESS: — PHONE:

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED AUG 05 1986 HYDROLOGY SECTION

ORB NO. 86-310 5/13/86

EPC NO.

PROJECT NO.

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAIN PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SECTOR PLAN APPROVAL

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

X ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 8/5/86

BY: John Block
JOHN BLOCK-GREINER ENG

GREINER ENGINEERING SCIENCES, INC.
2601 Wyoming Blvd., N.E., Suite F
Albuquerque, New Mexico 87112
(505) 292-1936
Formerly MSM Consultants, Inc.
A Greiner Engineering, Inc. Company

TRANSMITTAL

TO: CITY PUBLIC WORKS DEPT.
HYDROLOGY DEPT.
ATTN: BARBRA

DATE: AUG. 5, 1986
RE: AIRPORT PROVISIONING SITE
JOB NO. 06905B8

WE ARE SENDING THE FOLLOWING ☒ ATTACHED, ☐ UNDER SEPARATE COVER:

VIA ☐ SPECIFICATIONS ☐ HYDROLOGY SECTION

RECEIVED AUG 05 1986

☒ PRINTS ☐ COPY OF LETTER ☐ CHANGE ORDER
☐ ESTIMATES ☐ PROPOSAL ☐ REPORTS

NO. OF COPIES	DATED	DESCRIPTION
2	8/5/86	DRAINAGE PLAN
1	8/5/86	INFORMATION SHEET
1	4/17/86	PREDESIGN CONF. RECAP

THESE ARE TRANSMITTED:
☐ FOR YOUR USE ☐ FOR REVIEW AND COMMENT
☒ FOR APPROVAL ☐ AS REQUESTED

REMARKS:

CC: RON PETERS: BURNS PETERS GROUP

GREINER ENGINEERING SCIENCES, INC.
JOHN BLOCK

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: M15 DATE: 4-17-86

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Provisions Building

STREET ADDRESS (IF KNOWN): INTERSECTION OF YALE

SUBDIVISION NAME: S. George ST (SW corner)

APPROVAL REQUESTED:

____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
____ OTHER

____ FINAL PLAT
X BUILDING PERMIT
____ ROUGH GRADING

ATTENDANCE:	WHO	REPRESENTING
	Robert Molina	
	Carlos Montoya	

FINDINGS:

1. CAN FREE DISCHARGE WEST ~~INTO~~ THROUGH EXISTING STORM DRAIN SYSTEM
2. CANNOT USE RETENTION OR DETENTION PONDS BECAUSE OF BURIED REFUSE
3. SUBMIT CONCURRENCE FROM DOWNSTREAM OWNER FOR DISCHARGE FROM SITE
4. SITE IS CLOSE TO 100% impervious at present.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carlos A Montoya SIGNED: Robert Molina
TITLE: _____ TITLE: Project Engineer
DATE: 4-17-86 DATE: 4-17-86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL