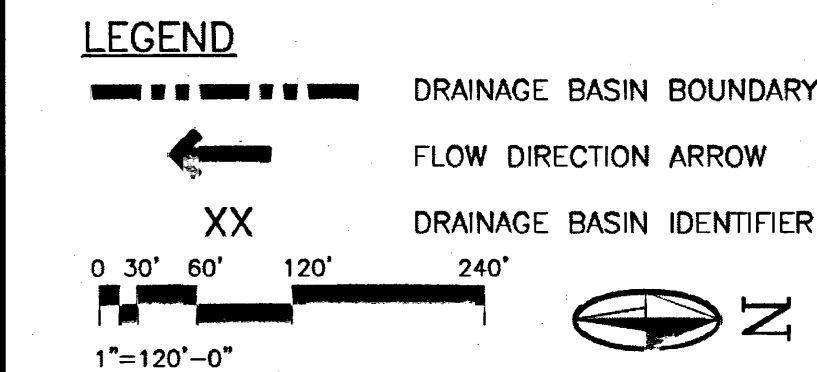




PROJECT DESCRIPTION & SITE LOCATION:

THE ALBUQUERQUE INTERNATIONAL SUNPORT IS PLANNING TO DEVELOP 115 ACRES ON THE SITE OF DECOMMISSIONED RUNWAY 17-35 FOR COMMERCIAL, RETAIL, OFFICE, INDUSTRIAL, MANUFACTURING, WAREHOUSING, AND OFFICE USE. THE DEVELOPMENT OF THE AVIATION CENTER OF EXCELLENCE (ACE) WILL OCCUR IN 4 PHASES: 1. MASS DEMOLITION AND GRADING OF THE AREA WITHIN THE AIRFIELD. 2. PERIMETER ROAD IMPROVEMENTS ON GIBSON BLVD AND GIRARD BLVD. 3. THE UTILITY WORK FOR THE ENTIRE SITE. 4. THE DEVELOPMENT OF THE INTERIOR ROADS. THE INDIVIDUAL PLANNED LOTS WILL BE DEVELOPED AS THEY ARE LEASED.

THIS DRAINAGE REPORT IS FOR PHASE 4; THE INTERIOR ROAD IMPROVEMENTS THAT ARE TO BE COMPLETED FOR LEASED LOT ACCESS WITHIN THE ACE SITE. PROPOSED DRAINAGE IMPROVEMENTS ARE CONSISTENT WITH THE AVIATION CENTER OF EXCELLENCE MASTER DRAINAGE PLAN APPROVED 1-15-16 (FILE: M16D024N).

HYDROLOGIC CRITERIA:

THE HYDROLOGIC CRITERIA FOR THIS DRAINAGE REPORT IS THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM). HYDROLOGIC CALCULATIONS WERE BASED ON THE 100YR, 24HR STORM. PRECIPITATION DATA WAS USED FROM THE DPM, WITH THE SITE LOCATION BEING CONSIDERED AS ZONE 2. 100 YEAR, 24 HOUR, STORM AS REQUIRED BY ALBUQUERQUE INTERNATIONAL AIRPORT DRAINAGE MASTER PLAN.

EXISTING CONDITIONS:

THE EXISTING SITE HAS BEEN PREVIOUSLY GRADED IN PHASE 1 TO DIRECT RUNOFF TO THE EXISTING INLETS WITHIN THE SITE VIA SOIL SWALES. THE INLETS HAVE SEDIMENTATION BASINS TO CAPTURE SEDIMENT BEFORE ENTERING THE STORM SYSTEM. THE INLETS SOUTH OF MILES RD WILL ROUTE IT TO THE 42" SYSTEM. THAT SYSTEM OUTFALLS INTO THE KIRTLAND CHANNEL AND EVENTUALLY THE SOUTH DIVERSION CHANNEL. THE NORTHERN INLETS NEAR GIBSON BLVD, DRAIN TO A 24" SYSTEM THAT EVENTUALLY CONNECTS TO THE GIBSON BLVD STORM SYSTEM NEAR COLUMBIA BLVD. THE FINAL OUTFALL OF THE GIBSON BLVD STORM SYSTEM IS GENEVA'S ARROYO, AND TERMINATES IN THE SOUTH DIVERSION CHANNEL.

DEVELOPED CONDITIONS:

PHASE 4 WILL CONSTRUCT THE INTERIOR ROADS FOR THE ACE DEVELOPMENT. ALL ROAD RUNOFF WILL BE INTERCEPTED ON SITE AND PONDED ONSITE, OR ROUTED THROUGH A SEDIMENTATION BASIN TO THE EXISTING STORM DRAIN NETWORK. THE ROADS ARE SHOWN IN THE ABOVE BASIN MAP. THE INLETS WILL HAVE TYPE C INLETS BUILT TO DRAIN THE ROADS. THESE INLETS WILL OUTFALL TO A POND NEAR THE INLET LOCATION SHOWN ON THE BASIN MAP. THIS IS TO ALLOW FOR FUTURE FLEXIBILITY OF THE ENTIRE SYSTEM. WHERE INTERIOR ROADS ARE CONNECTING TO GIRARD OR GIBSON, RUNDOWNS WILL BE CONSTRUCTED TO INTERCEPT AND DIVERT RUNOFF SO IT DOES NOT EXIT THE SITE. THE EXISTING BASINS WILL BE CHANGED BY CONSTRUCTION OF THE INTERIOR ROADS. THESE BASINS WILL HAVE NEW PONDING LOCATIONS OR GRADED TO A NEW INLET AS SHOWN ON THE BASIN MAP.

REFER TO THIS SHEET FOR PROPOSED BASIN LOCATIONS. SEE GRADING AND DRAINAGE SHEET FOR INLET LOCATIONS. THESE NEW INLETS MUST BE MAINTAINED TO OPERATE AS DESIGNED IN THIS REPORT.

Basin	Area (ac)	Q(24 hr) (cfs)	V(24 hr) (cf)	Inlet Allow Q (CFS)	Q from Pond (CFS)
R1	0.54	2.30	4,334.7	12.00	0.00
R2	1.89	8.11	15,291.1	12.00	0.00
R3	0.85	3.63	6,851.3	12.00	0.00
R4	0.86	3.74	7,069.8	12.00	0.00
R5	0.79	3.40	6,393.0	12.00	0.00
R6	0.96	4.06	7,618.3	12.00	0.00
R7	0.51	2.17	4,096.8	12.00	0.00
R8	0.65	2.76	5,180.2	12.00	0.00
DA1-4	4.61	14.43	18,902.5	0.00	0.00
DA1-5	0.78	2.46	3,217.9	0.00	0.00
DA3	4.73	14.82	19,411.2	22.00	14.82
DA3-1	6.45	20.20	26,469.6	22.00	20.20
DA4	9.98	31.23	40,917.5	22.00	22.00
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DA6-1	4.01	12.55	16,445.1	22.00	12.50
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DA13	5.42	16.98	22,247.1	0.00	0.00

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNPORT ACE GIBSON AND GIRARD IMPROVEMENTS

PROPOSED BASIN MAP
AND DRAINAGE REPORT

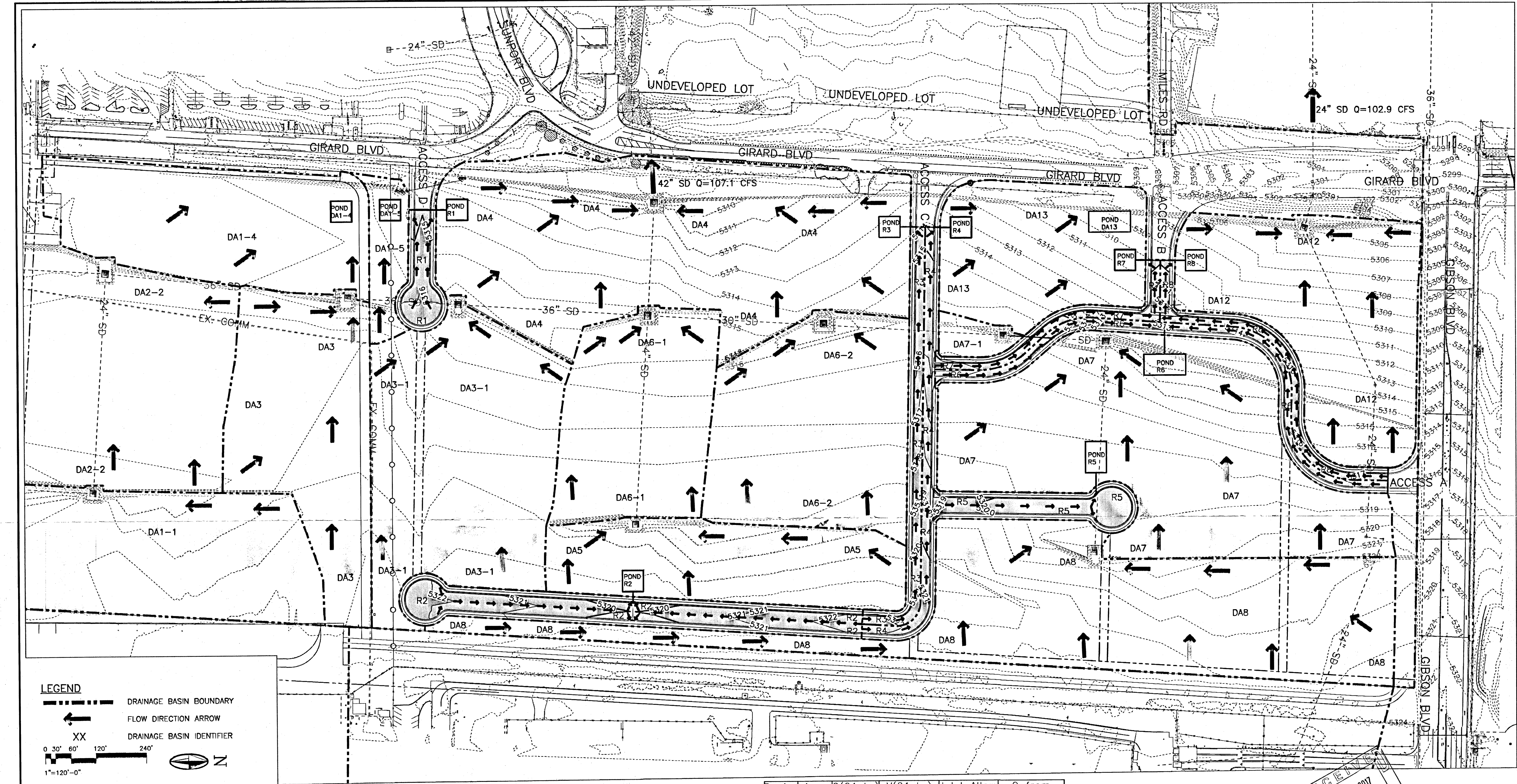
Design Review Committee City Engineer Approval

City Project No. 770081

Zone Map No. M-16

Sheet X Of X
G-006

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION													
	NO.	BY	DATE	19-16 - 3 1/4 INCH ALUMINUM DISC N=479188.5779 E=532270.698 EL=5297.51	DATE	14-17 - 3 1/4 INCH ALUMINUM DISC N=480897.724 E=534900.820	DATE												
								REMARKS	NO.	DATE	DATE	DATE	DATE						
														REVISIONS	NO.	DATE	DATE	DATE	DATE
DESIGNED BY	DRAWN BY	CHECKED BY	RECORDED BY	NO.	NO.	NO.	NO.												
SM / RD	RD	SM																	
FEB. 2017	FEB. 2017	FEB. 2017																	



PROJECT DESCRIPTION & SITE LOCATION:

THE ALBUQUERQUE INTERNATIONAL SUNPORT IS PLANNING TO DEVELOP 115 ACRES ON THE SITE OF DECOMMISSIONED RUNWAY 17-35 FOR COMMERCIAL, RETAIL, OFFICE, INDUSTRIAL, MANUFACTURING, WAREHOUSING, AND OFFICE USE. THE DEVELOPMENT OF THE AVIATION CENTER OF EXCELLENCE (ACE) WILL OCCUR IN 4 PHASES: 1. MASS DEMOLITION AND GRADING OF THE AREA WITHIN THE AIRFIELD. 2. PERIMETER ROAD IMPROVEMENTS ON GIBSON BLVD AND GIRARD BLVD. 3. THE UTILITY WORK FOR THE ENTIRE SITE. 4. THE DEVELOPMENT OF THE INTERIOR ROADS. THE INDIVIDUAL PLANNED LOTS WILL BE DEVELOPED AS THEY ARE LEASED.

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EXISTING CONDITIONS:

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JAN 10 2017
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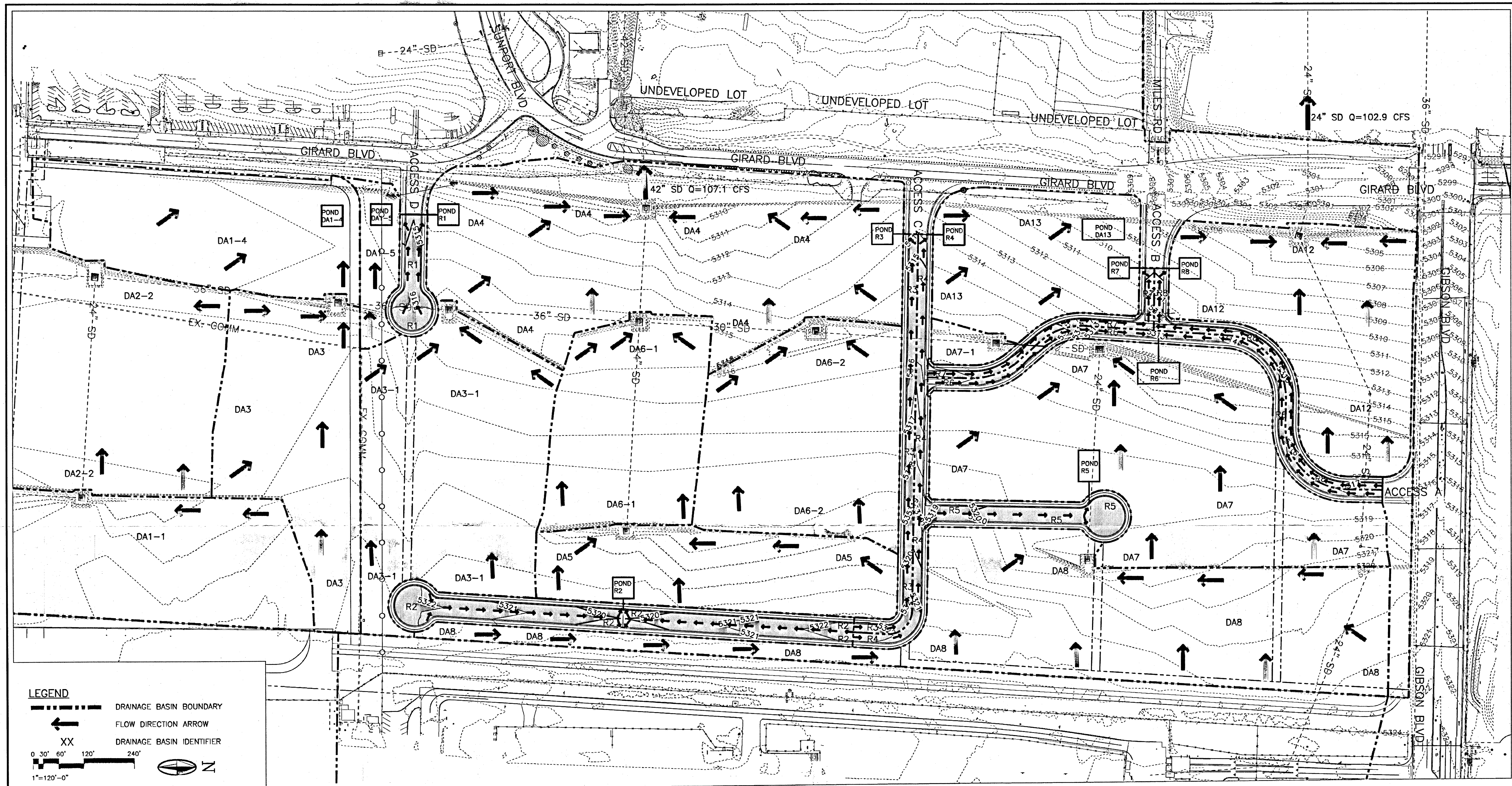
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNPORT ACE GIBSON AND GIRARD IMPROVEMENTS

**PROPOSED BASIN MAP
AND DRAINAGE REPORT**

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	X	Of X
770081	M-16	G-006		

BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
19-L16 - 3 1/4 INCH ALUMINUM DISC N=4791885.579 E=53270.698 EL=5297.51		FIELD NOTES		NO. DATE BY	
CONTRACTOR N=4791885.579 E=53270.698 EL=5297.51		DATE		NO. DATE BY	
INSURANCE N=4791885.579 E=53270.698 EL=5297.51		DATE		NO. DATE BY	
ACCEPTANCE BY N=4791885.579 E=53270.698 EL=5297.51		DATE		NO. DATE BY	
DRAWINGS N=4791885.579 E=53270.698 EL=5297.51		DATE		NO. DATE BY	
CHECKED BY N=4791885.579 E=53270.698 EL=5297.51		DATE		NO. DATE BY	
RECORDED BY N=4791885.579 E=53270.698 EL=5297.51		DATE		NO. DATE BY	
MICRO-FILM INFORMATION		DATE		NO. DATE BY	
NAD 83 NAVD 88 - CENTRAL ZONE		DATE		NO. DATE BY	



PROJECT DESCRIPTION & SITE LOCATION:

THE ALBUQUERQUE INTERNATIONAL SUPPORT PLANNING TO DEVELOP 115 ACRES ON THE SITE OF DECOMMISSIONED RUNWAY 17-35 FOR COMMERCIAL, RETAIL, OFFICE, INDUSTRIAL, MANUFACTURING, WAREHOUSING AND OFFICE USE. THE DEVELOPMENT OF THE AVIATION CENTER OF EXCELLENCE (ACE) WILL OCCUR IN 4 PHASES: 1. MASS DEMOLITION AND GRADING OF THE AREA WITHIN THE AIRFIELD. 2. PERIMETER ROAD IMPROVEMENTS ON GIBSON BLVD AND GIRARD BLVD. 3. THE UTILITY WORK FOR THE ENTIRE SITE. 4. THE DEVELOPMENT OF THE INTERIOR ROADS, THE INDIVIDUAL PLANNED LOTS WILL BE DEVELOPED AS THEY ARE LEASED.

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MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

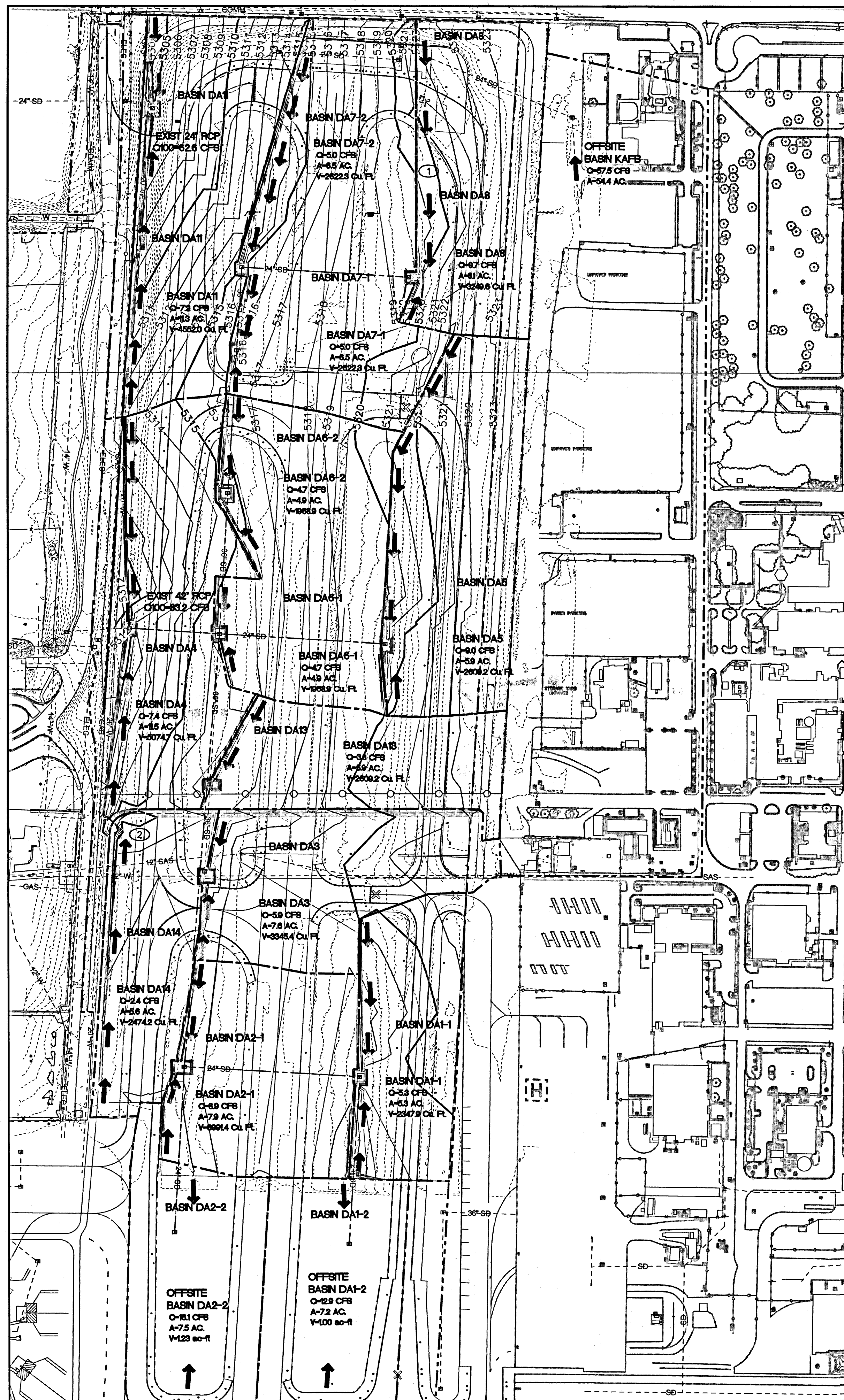
TITLE: SUNPORT ACE GIBSON AND GIRARD IMPROVEMENTS

PROPOSED BASIN MAP AND DRAINAGE REPORT

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.		Zone Map No.	Sheet X	Of X
770081		M-16	G-006	

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MOLZEN CORBIN: ABQ114-19A



MOLZEN CORBIN: ABQ114-19B



- KEYED NOTES**

 - ① EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED
TOG=03.51
 - ② EXISTING STORM DRAIN INLET TO BE ABANDONED IN PLACE. WELD STEEL PLATE OVER EXISTING GRATE AND ENSURE NO DIRT ENTERS THE INLET

GENERAL SHEET NOTE:

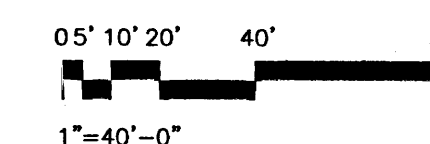
1. SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

- | | |
|------------|--------------------------|
| —5320---- | EX. INDEX CONTOUR |
| ---5321--- | EX. INTERMEDIATE CONTOUR |
| —5320— | INDEX CONTOUR |
| —5321— | INTERMEDIATE CONTOUR |
| ×-----× | EXISTING FENCE |
| ○----- | EXISTING SECURITY FENCE |
| ————— | SUNPORT PROPERTY LINE |
| FL | FLOWLINE |
| TOB | TOP OF BERM |
| ----- | GRADING LIMITS |



KEY MAP



CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

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TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

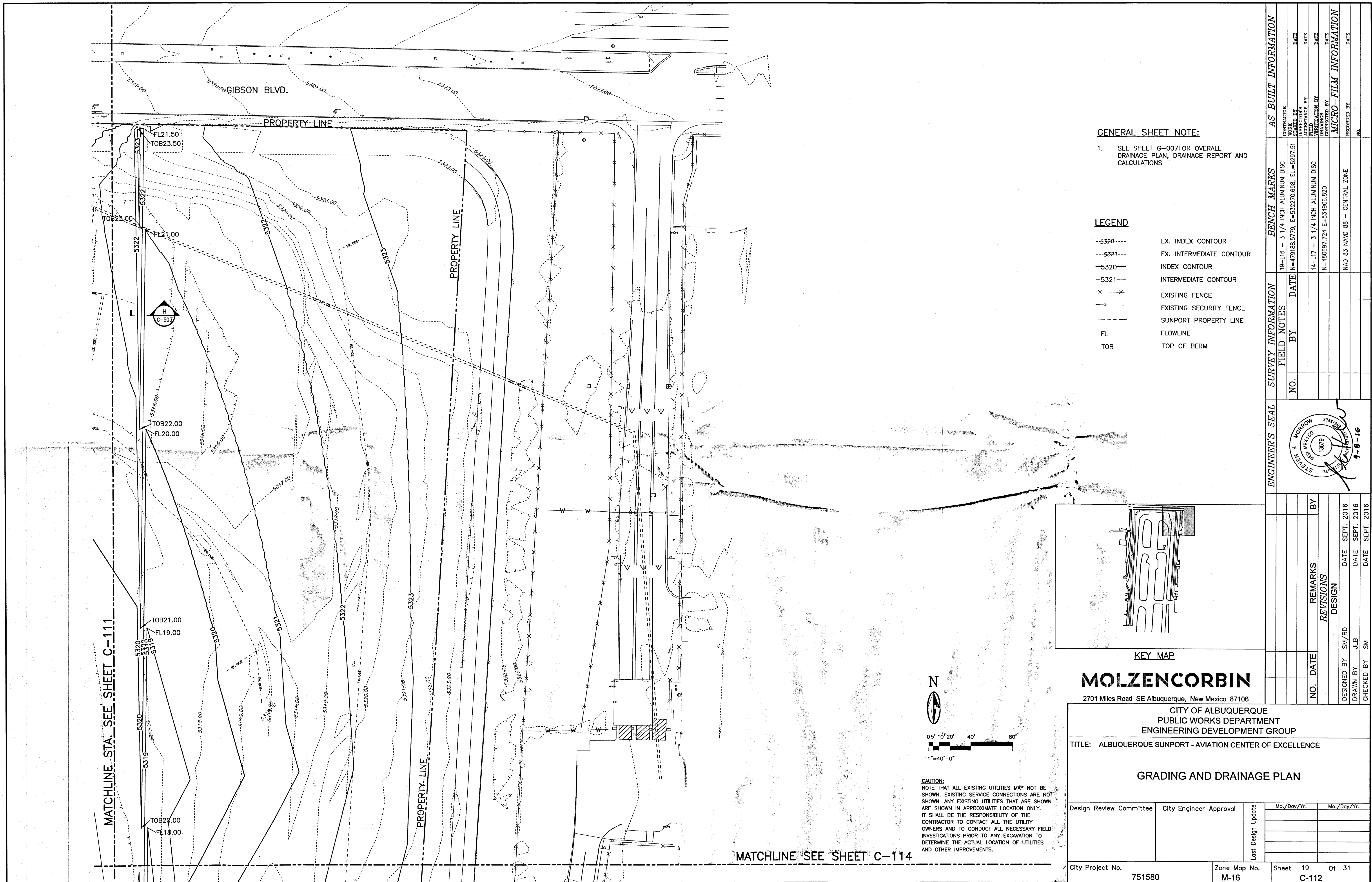
GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.	
City Project No.	Zone Map No.	Sheet	18	Of	31
751580	M-16	C-111			

751580

Zone Map
M-16

Sheet 18 Of 31
C-111





KEYED NOTES

- EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=13.42
- EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=15.69
- EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=15.06

GENERAL SHEET NOTE:

- SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

- EX. INDEX CONTOUR
- EX. INTERMEDIATE CONTOUR
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- EXISTING FENCE
- EXISTING SECURITY FENCE
- FLOWLINE
- TOP OF BERM
- GRADING LIMITS

KEY MAP

0' 10' 20' 40' 80'

1"=40'-0"

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GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
751580	M-16	20	31

AS BUILT INFORMATION

CONTRACTOR	DATE
19-L16 - 3 1/4 INCH ALUMINUM DISC	
INSPECTED BY	DATE
14-L17 - 3 1/4 INCH ALUMINUM DISC	
VERIFICATION BY	DATE
14-L17 - 3 1/4 INCH ALUMINUM DISC	
RECORDED BY	DATE
NAD 83 NAVD 88 - CENTRAL ZONE	

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL

1-8-16

DESIGN

NO.	DATE	REVISIONS	BY

DESIGNED BY SM DATE SEPT. 2016
DRAWN BY JLB DATE SEPT. 2016
CHECKED BY SM DATE SEPT. 2016

MATCHLINE SEE SHEET C-112

① ADJUST EXISTING STORM DRAIN INLET
TOG=18.50

GENERAL SHEET NOTE:

1. SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

—5320---	EX. INDEX CONTOUR
---5321---	EX. INTERMEDIATE CONTOUR
—5320—	INDEX CONTOUR
—5321—	INTERMEDIATE CONTOUR
✕——✕	EXISTING FENCE
—○—	EXISTING SECURITY FENCE
— · · · —	SUPPORT PROPERTY LINE
FL	FLOWLINE
TOB	TOP OF BERM

AS BUILT INFORMATION			
CONTRACTOR	WORK	STARTED BY	DATE
INSPECTORS	ACCEPTANCE BY	DATE	
FIELD	VERIFICATION BY	DATE	
CORRECTED BY	DATE		
MICRO-FILM INFORMATION			
RECORDED BY	DATE		

BENCH MARKS
9-L16 - 3 1/4 INCH ALUMINUM DISK
E=479188.5779, E=532270.698, EL.=
4-L17 - 3 1/4 INCH ALUMINUM DISK
E=480697.724 E=534906.820
ROAD 83 NAYD 88 - CENTRAL ZONE

[illegible]

REVISIONS		DATE	SEPT. 2016
DESIGN		DATE	SEPT. 2016
DESIGNED BY	SM/RD	DATE	SEPT. 2016
DRAWN BY	JLB	DATE	SEPT. 2016

KEY MAP

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 8710

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee

City Engineer Approv

Last Design Update

Mo./Day/Yr.	Mo./Day/Yr.
-------------	-------------

City Project No.

Zone Map
M-16

Sheet 21 Of 31
C-114

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

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MOLZEN CORBIN: ABQ114-19

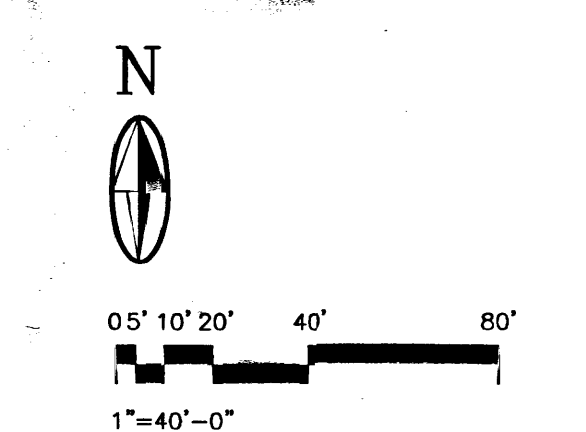
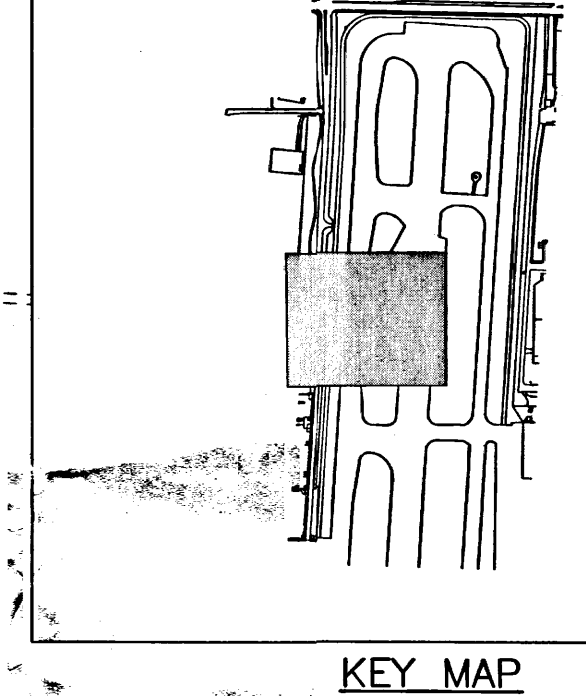


- KEYED NOTES**
- ADJUST STORM DRAIN INLET TOG=10.50
 - EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=14.27
 - EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=15.93
 - BEGIN NEW 6'-0" SECURITY FENCE SEE DETAIL SHEET C-504. TIE TO EXISTING SECURITY FENCE.

GENERAL SHEET NOTE:

- SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

- LEGEND**
- EX. INDEX CONTOUR
 - EX. INTERMEDIATE CONTOUR
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - EXISTING FENCE
 - EXISTING SECURITY FENCE
 - SECURITY FENCE
 - FLOWLINE
 - TOP OF BERM
 - GRADING LIMITS



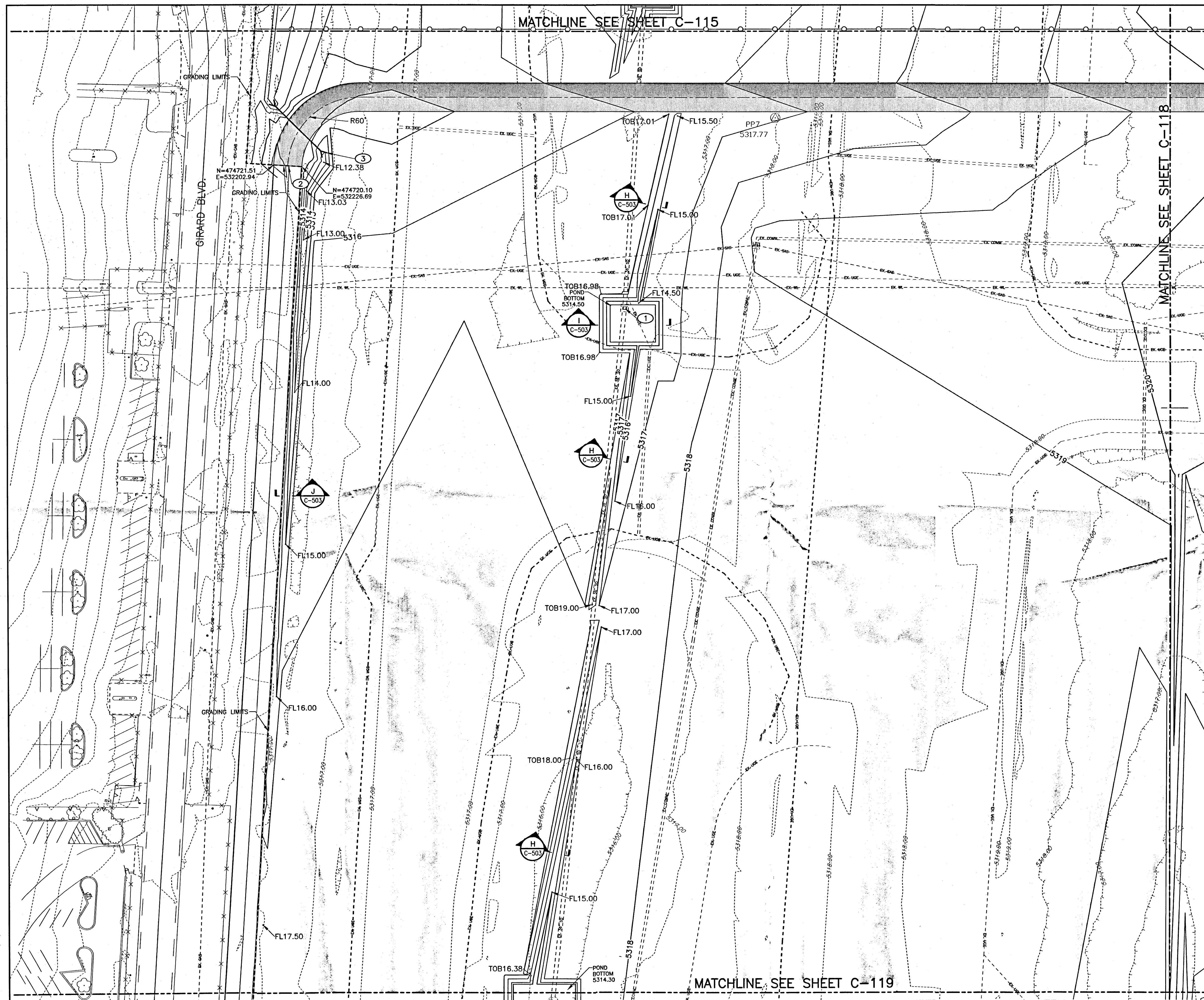
CAUTION:
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MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE			
GRADING AND DRAINAGE PLAN			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
751580	M-16	22	31
		C-115	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		CONTRACTOR		CONTRACTOR	
		NO.	DATE	19-L16 - 3 1/4 INCH ALUMINUM DISC	NO.	DATE	
REVISIONS		BY		INSPECTOR		INSPECTOR	
DESIGN				ACCEPTANCE BY		ACCEPTANCE BY	
DATE				DATE		DATE	
DESIGNED BY RD		DATE SEPT. 2016		DRAWINGS		DRAWINGS	
DRAWN BY JLB		DATE SEPT. 2016		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
CHECKED BY SM		DATE SEPT. 2016		NO.		NO.	



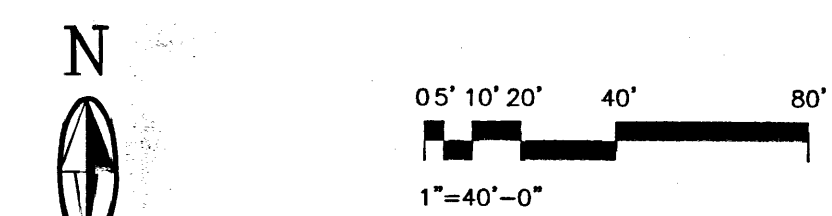
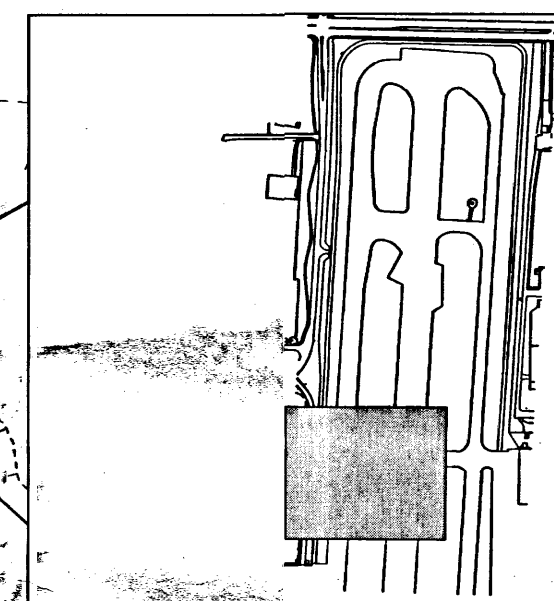


- KEYED NOTES**
- ① ADJUST EXISTING STORM DRAIN INLET
TOG=5315.00
- ② BEGIN NEW PERIMETER ROAD SEE TYPICAL
SECTION DETAIL SHEET C-504. MATCH
EXISTING PERIMETER ROAD GRADE
- ③ 24" CMP CULVERT WITH STANDARD END
SECTION
INV (IN)=12.40
INV (OUT)=11.70

GENERAL SHEET NOTE:

1. SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

- | | |
|---|--------------------------|
| LEGEND | |
| --5320---- | EX. INDEX CONTOUR |
| ---5321--- | EX. INTERMEDIATE CONTOUR |
| —5320— | INDEX CONTOUR |
| —5321— | INTERMEDIATE CONTOUR |
| ×————× | EXISTING SECURITY FENCE |
|  | ASPHALT |
| FL | FLOWLINE |
| TOB | TOP OF BERM |
| ----- | GRADING LIMITS |



CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

MOLZENCORBIN

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE:	ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 751580		Zone Map No. M-16	Sheet 24 C-117	Of 31

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE			
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							INSPECTOR'S
					14-117 - 3 1/4 INCH ALUMINUM DISC		DATE
					N=480697.724 E=534906.820		FIELD
							VERIFICATION BY
							DATE
							DRAWINGS
							BY
							DATE
							MICRO-FILM INFORMATION
					HAD 83 N/AID 88 - CENTRAL ZONE		RECORDED BY
							DATE
							NO.



C

1. SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

-5320----	EX. INDEX CONTOUR
--5321---	EX. INTERMEDIATE CONTOUR
-5320—	INDEX CONTOUR
-5321—	INTERMEDIATE CONTOUR
—X—X—	EXISTING FENCE
—○—	EXISTING SECURITY FENCE
	ASPHALT
	SUNPORT PROPERTY LINE
FL	FLOWLINE
TOB	TOP OF BERM



2701 Miles Road SE Albuquerque, New Mexico 87106

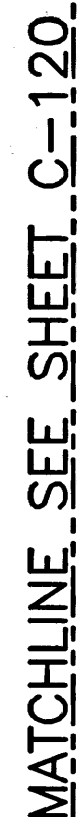
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE	

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.	
City Project No.	Zone Map No.	Sheet	25	Of	31
751580	M-16	C-118			

[illegible]

CAUTION:
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GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

—5320---	EX. INDEX CONTOUR
---5321---	EX. INTERMEDIATE CONTOUR
—5320—	INDEX CONTOUR
—5321—	INTERMEDIATE CONTOUR
×—×	EXISTING FENCE
○—	EXISTING SECURITY FENCE
FL	FLOWLINE
TOB	TOP OF BERM
----	GRADING LIMITS



2701 Miles Road SE Albuquerque, New Mexico 87106

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 751580		Zone Map No. M-16	Sheet 26 Of 31 C-119			

[illegible]

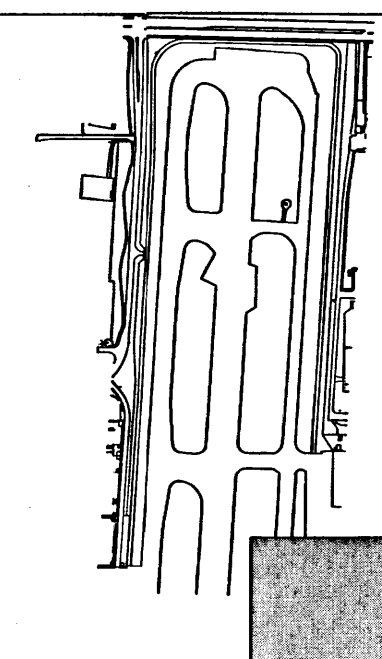
MOLZEN CORBIN: ABQ114-19B



①

1. SEE SHEET G-007 FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

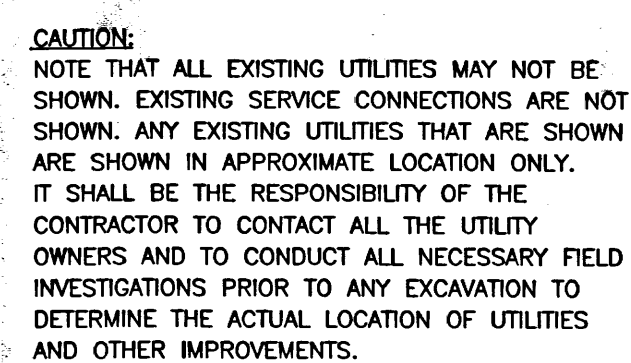
	EX. INDEX CONTOUR
	EX. INTERMEDIATE CONTOUR
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
	SUPPORT PROPERTY LINE



KEY MAP

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106



MOLZEN CORBIN; ABQ114-19B

KEYED NOTES

ADJUST EXISTING STORM DRAIN INLET

TOG=5317.00

GENERAL SHEET NOTE:

- SEE SHEET G--007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

- 5320---- EX. INDEX CONTOUR
- 5321--- EX. INTERMEDIATE CONTOUR
- 5320-- INDEX CONTOUR
- 5321-- INTERMEDIATE CONTOUR
- EXISTING FENCE
- EXISTING SECURITY FENCE
- SUNPORT PROPERTY LINE

KEY MAP

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

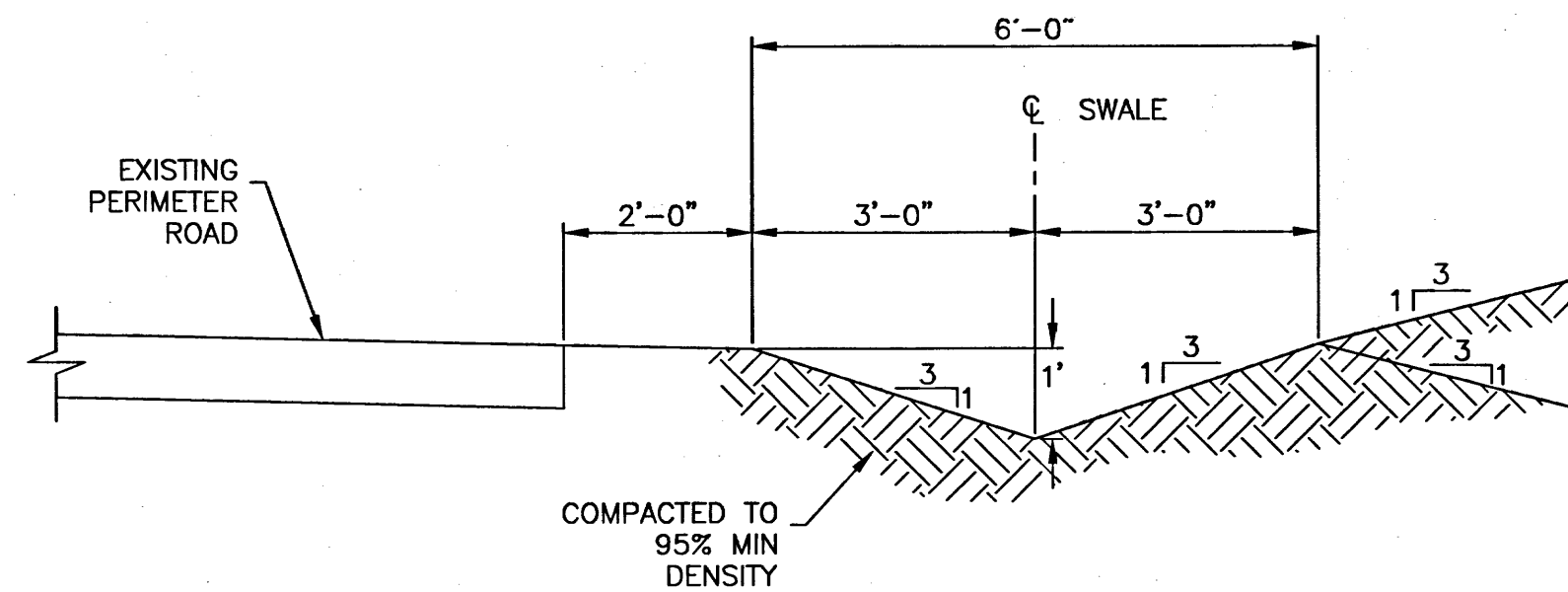
City Project No. 751580 Zone Map No. M-16 Sheet 27 Of 31

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
NO.	BY	DATE					
				19-L16 - 3 1/4 INCH ALUMINUM DISC	CONTRACTOR	WORK	DATE
					INSPECTORS	ACCEPTANCE BY	DATE
				14-L17 - 3 1/4 INCH ALUMINUM DISC	VERIFICATION BY	DATE	
				N=480697.724 E=534906.920	CONSTRUCTED BY	DATE	
					MICRO-FILM INFORMATION		
				NAD 83 NAD 88 - CENTRAL ZONE	RECORDED BY	DATE	
					NO.		

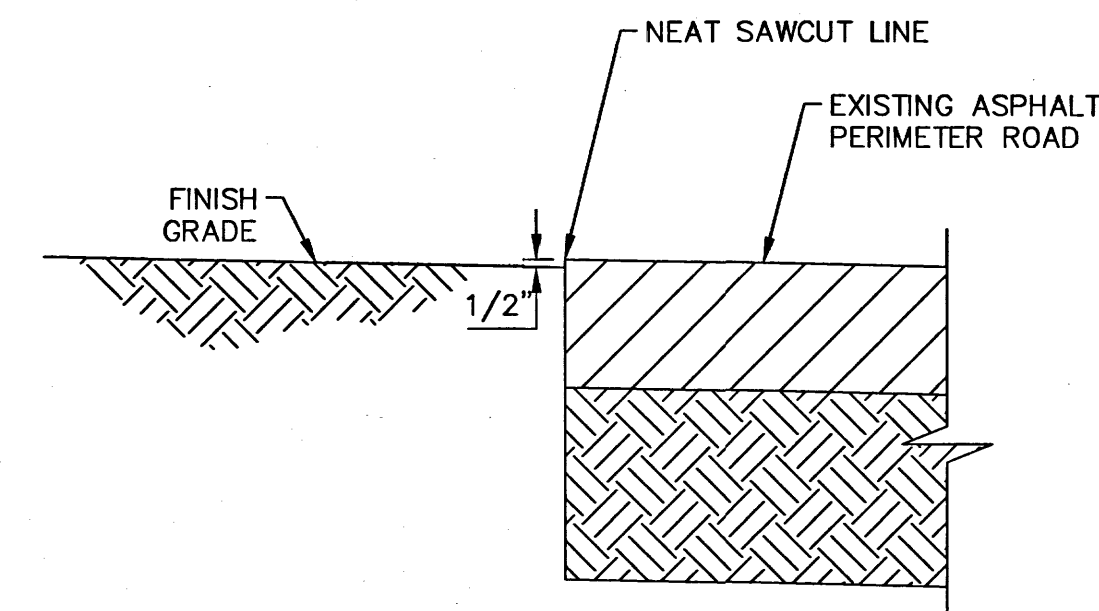
9-8-16

REVISIONS
DESIGN

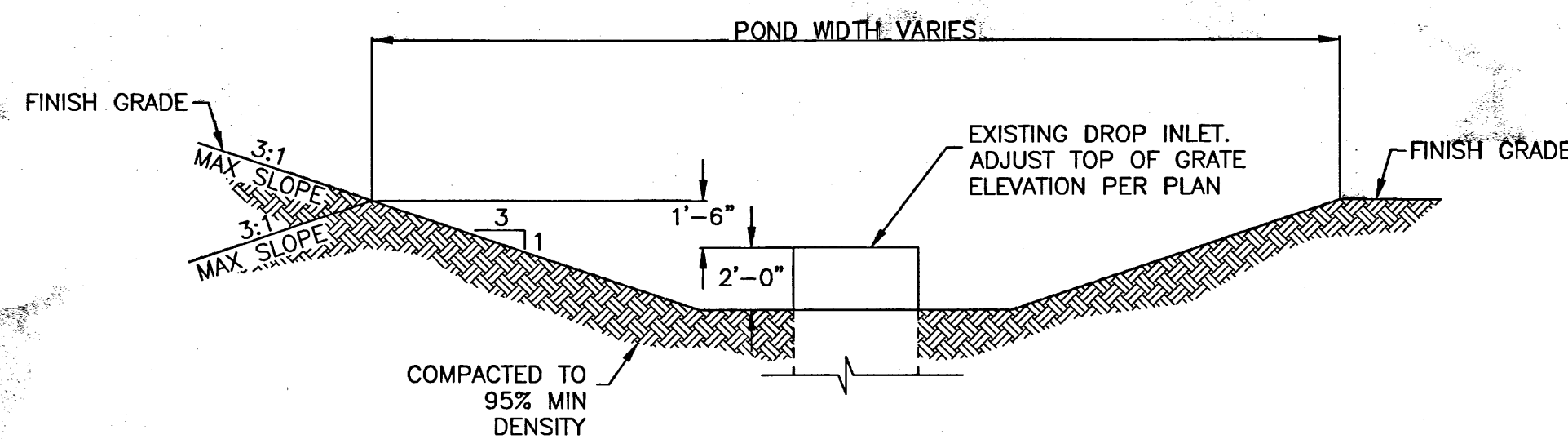
DESIGNED BY	SM/RD	DATE	SEPT. 2016
DRAWN BY	JLB	DATE	SEPT. 2016



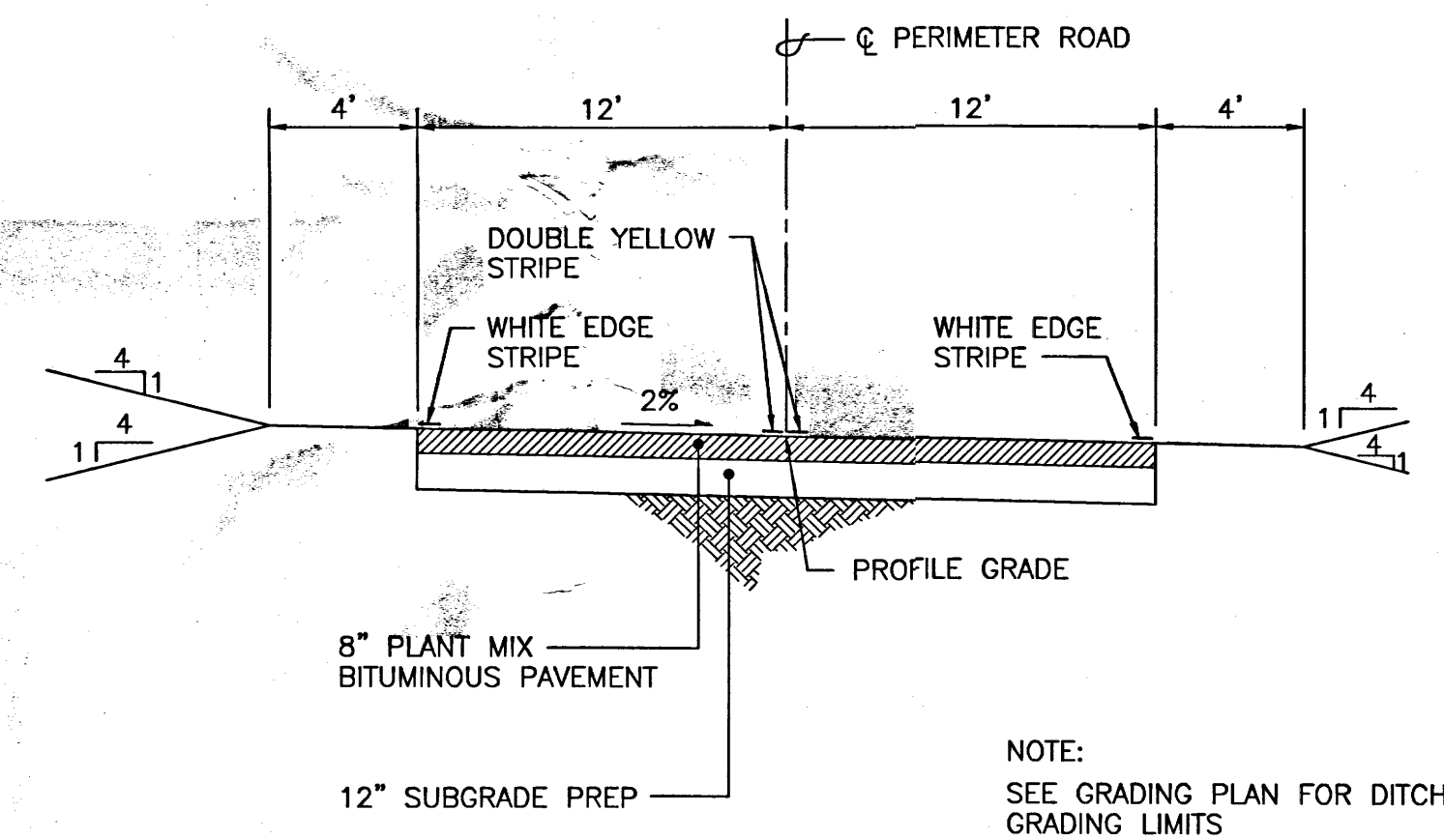
TYPICAL ROADWAY SWALE DETAIL (J)
SCALE: 1"=2'



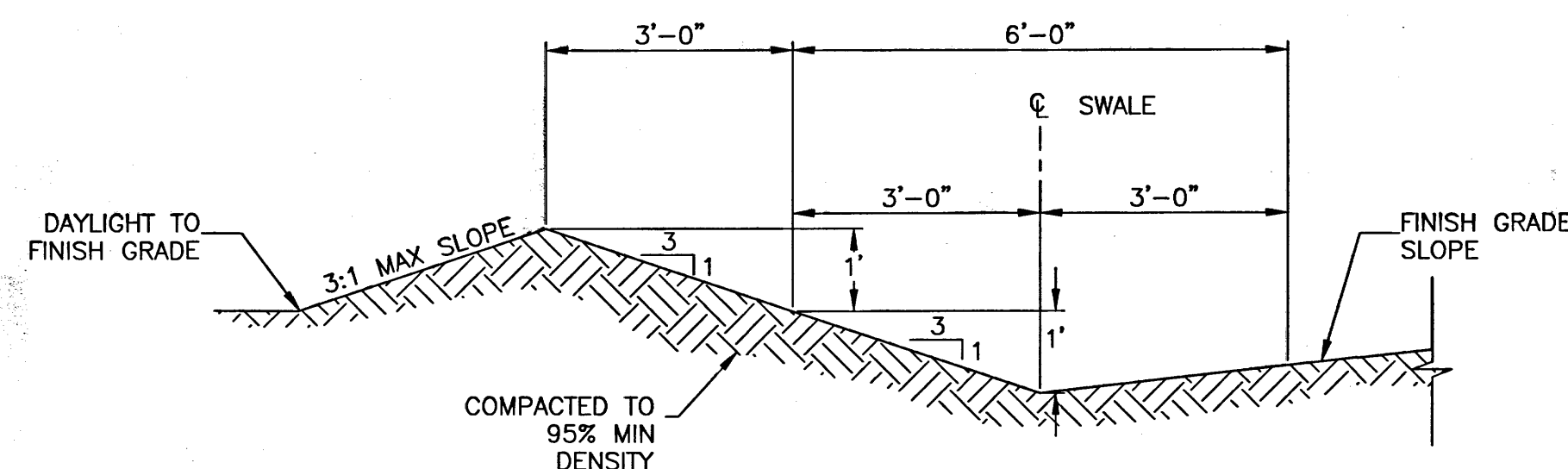
PAVEMENT SAWCUT AND
FINISH GRADE TRANSITION
SCALE: N.T.S.



TYPICAL POND DETAIL (I)
SCALE: 1"=5'



TYPICAL SECTION - PERIMETER ROAD
SCALE: N.T.S.



TYPICAL SWALE DETAIL (H)
SCALE: 1"=2'

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106

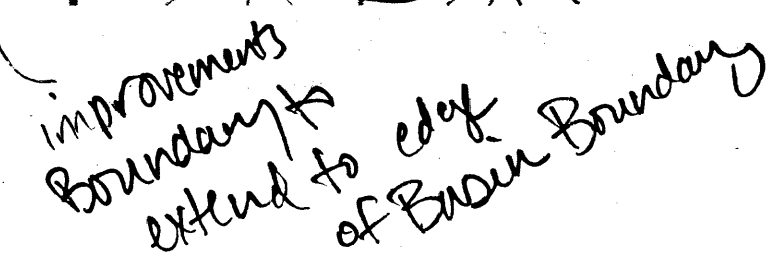
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

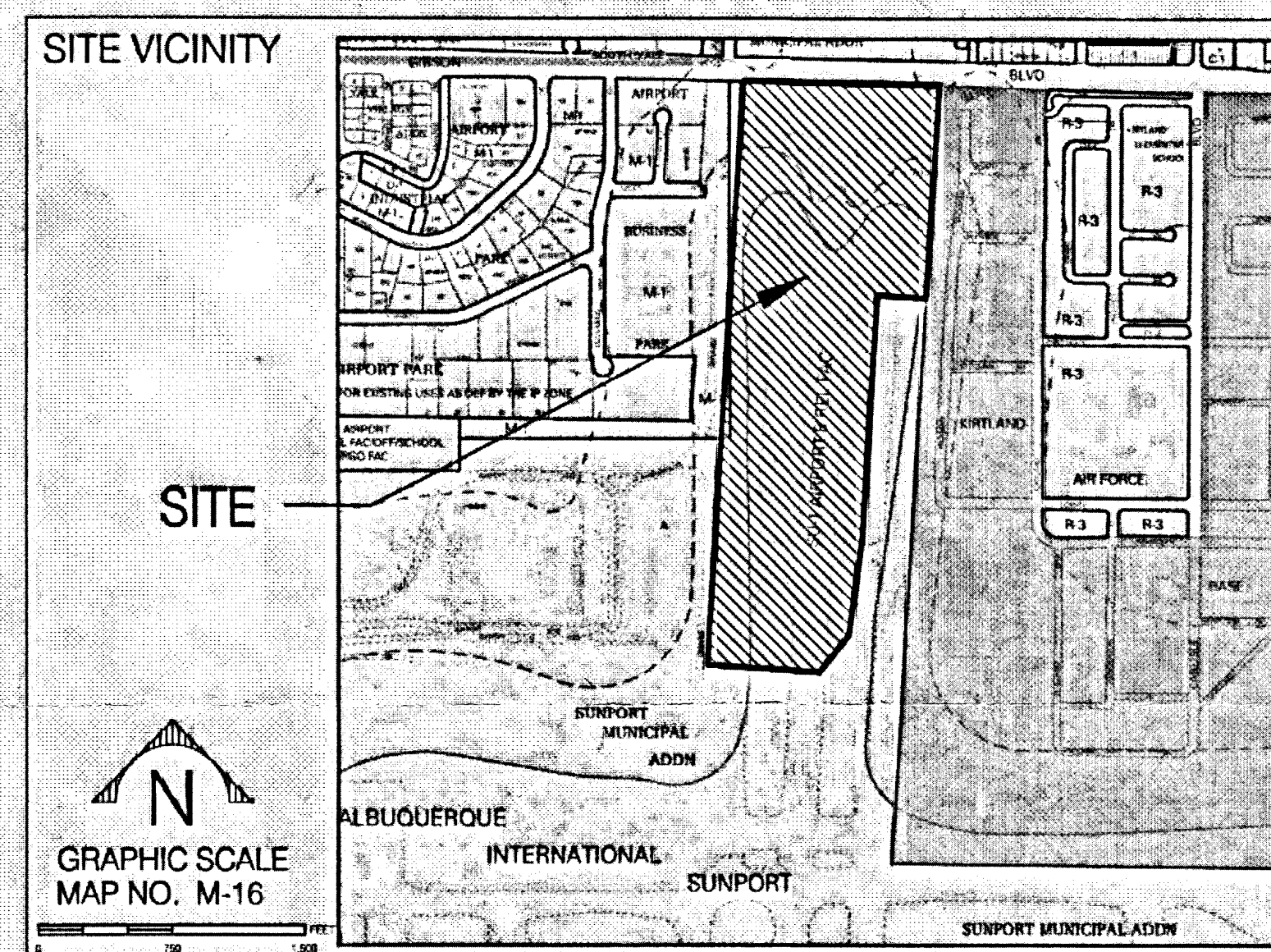
TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

MISCELLANEOUS DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 751580		Zone Map No. M-16	Sheet 30 C-503	Of 31

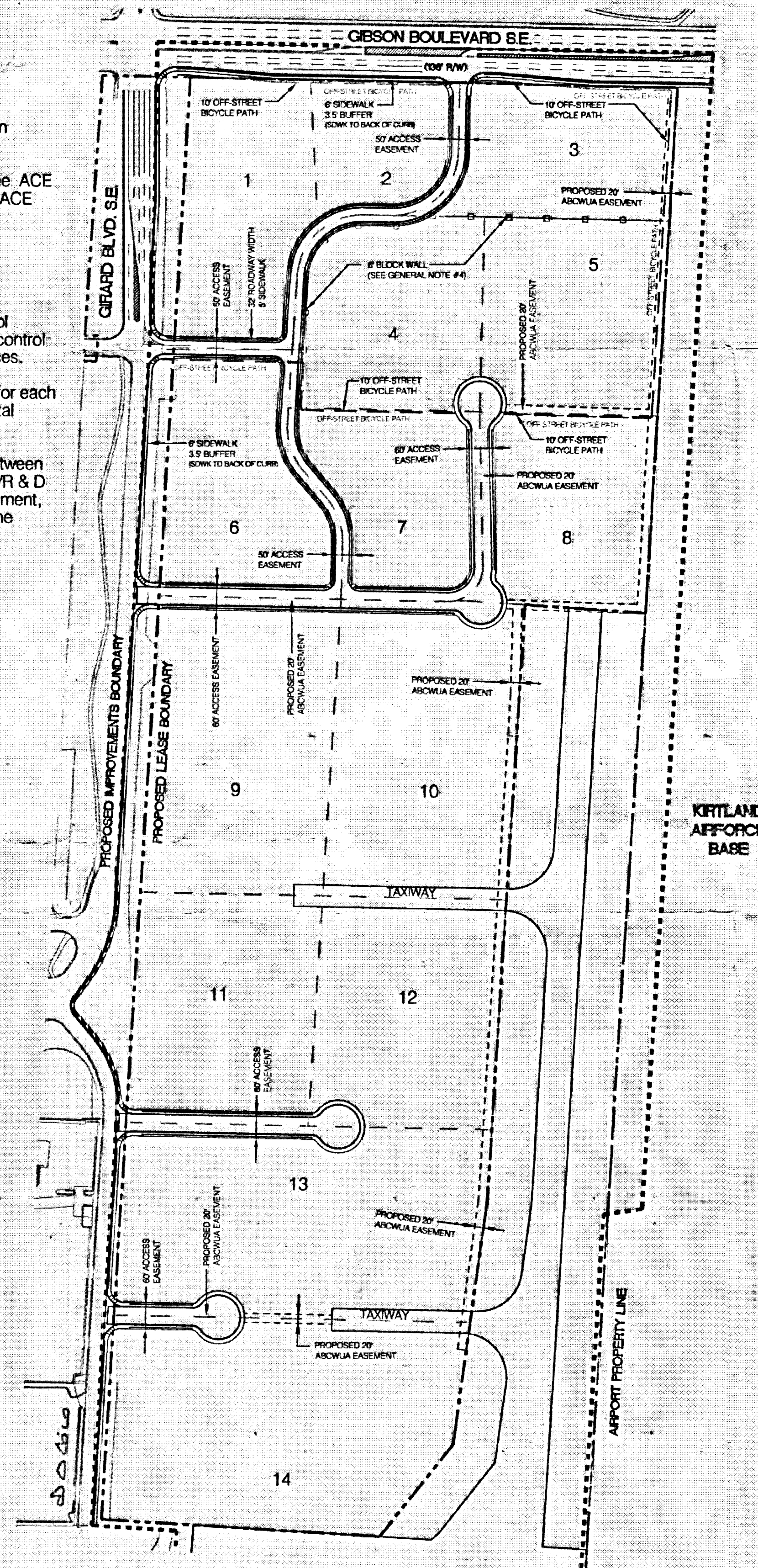
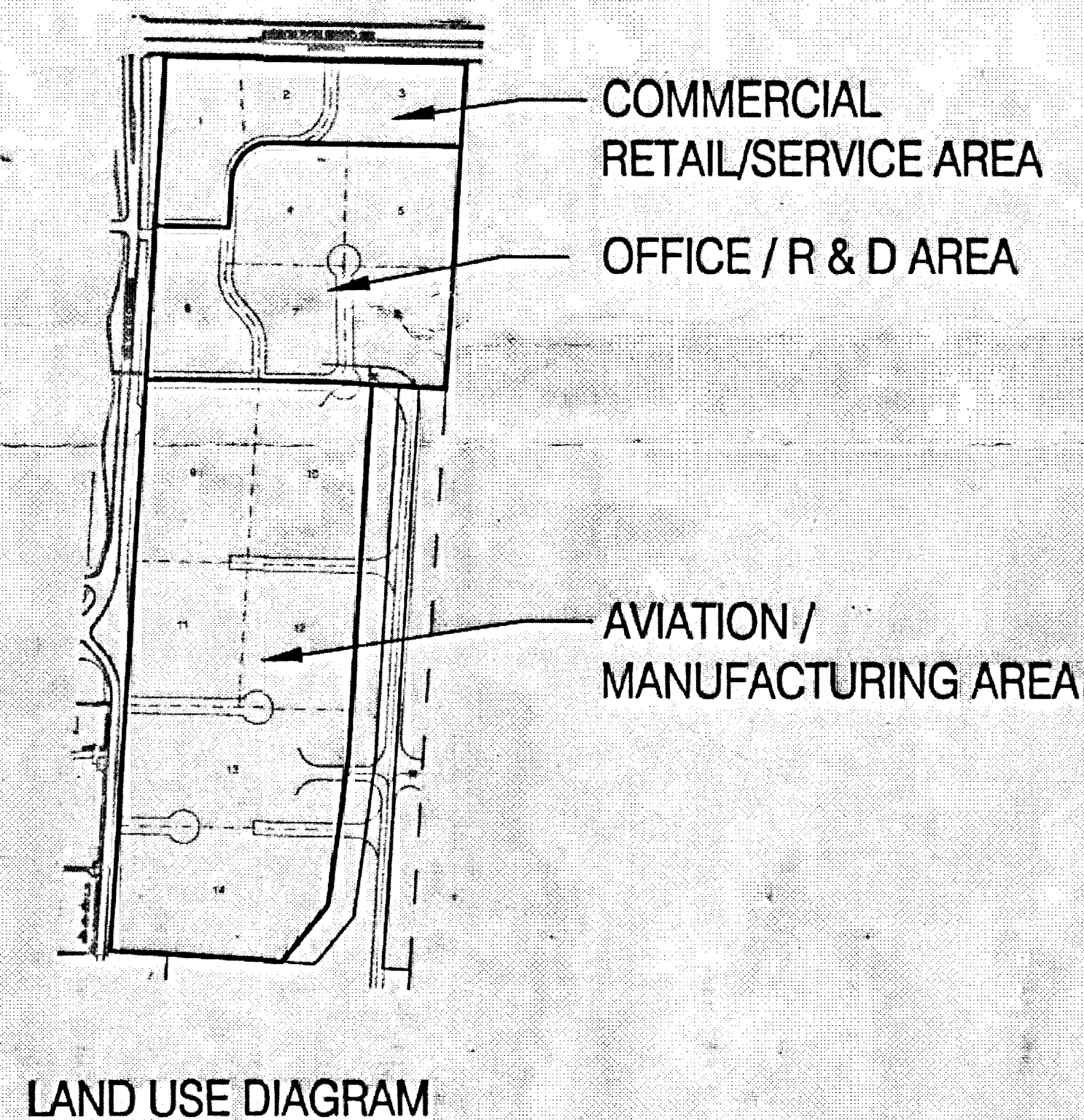
SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	NO.	CONTRACTOR	DATE
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				INSPECTED BY	DATE
				ACCEPTANCE BY	DATE
			14-L17 - 3 1/4 INCH ALUMINUM DISC	N=480697.724, E=534906.820	
				VERIFICATION BY	DATE
				CONFORMED BY	DATE
				MICRO-FILM INFORMATION	
				NAD 83 NAD 88 - CENTRAL ZONE	RECORDED BY
					NO.





- General Notes:**

1. Lot lines are illustrative. There will be no subdivision actions on the property.
2. There is no minimum lot size for development at the ACE project; however, each leased area shall meet the ACE Design Standards and the DPM requirements for transportation access and circulation.
3. The exact alignment of the interior roads shall be established at the time of development.
4. All future site plans shall contain stormwater control measures designed to manage the first flush and control runoff generated by contributing impervious surfaces.
5. A Traffic Circulation Layout (TCL) plan is required for each development as part of the building permit submittal requirements.
6. The intent of block wall is to provide separation between the Commercial Retail/Service area and the Office/R & D area. Depending on the final layout of this development, the block wall may be relocated in order to meet the intent.



SITE PLAN FOR SUBDIVISION - REQUIRED INFORMATION

THE SITE:
The Site is Tract A-1, Sunport Municipal Addition, consisting of approximately 70.35 acres. The property is bounded on the west by Girard Boulevard, to the north by Gibson Boulevard, to the east by Kirtland AFB, and Albuquerque International Sunport to the south.

ZONING AND PROPOSED USE:
The Site is zoned SU-1 Airport and Related Facilities and is part of the Sunport Master Plan. Land use includes commercial, retail and office along Gibson Boulevard, and industrial, manufacturing, warehousing, and office uses to the south. The property ownership will remain with City of Albuquerque Aviation Department and individual parcels will be leased to users. No subdivision actions are anticipated for this property. Lot lines shown on the site plan are illustrative.

APPLICABLE PLANS: Albuquerque Sunport Master Development Plan governs this site and the rest of the Sunport property.

PEDESTRIAN AND VEHICULAR INGRESS AND EGRESS:

Vehicular Access: The primary access to the ACE property is from Gibson Boulevard, a limited access arterial, and from Girard Boulevard, an urban collector. The Transportation Coordinating Committee of the Metropolitan Transportation Board of the Mid-Region Council of Governments approved a modified access on Gibson Boulevard to the ACE property, providing a right-in/right-out/left-in access (R-15-01 TCC).

Transit - Transit routes 217 and 96 run along Gibson Boulevard and route 222 runs along Girard Boulevard. A bus stop is located in front of this property along Gibson Boulevard and another one is located across the street along Girard Boulevard.

Bicycle Access - The Gibson Trail, a multi-use, paved trail runs along the north side of Gibson Boulevard and south along Girard Boulevard. Bike lanes are within the Gibson Right-of-Way. The project has been designed to accommodate bicyclists along the Gibson frontage and from Girard through the property along the north side of lot 6 and between lots 4-5 and 7-8 to the eastern property boundary and back north to Gibson

Pedestrian Access - Internal sidewalk and pedestrian facilities will be designed consistent with the design guidelines included in this site plan and future site plans for building permits. Six foot sidewalks shall be constructed adjacent to Gibson Boulevard and Girard Boulevard.

BUILDING HEIGHTS AND SETBACKS: Maximum building height for the commercial area along Gibson Boulevard shall be pursuant to the O-1 Zone. The maximum building height for the southern parcels shall be pursuant to the O-1 Zone and Federal Aviation Administration Airspace Review and Regulations (See Design Standards, Section H. Building and Structure Heights). Setbacks shall be per the O-1 Zone.

MAXIMUM FAR: Maximum F.A.R. for commercial area is .28. The remainder is .40.

LANDSCAPE PLAN:

Landscape plans shall be submitted with future Site Plans for Building Permit and shall be consistent with the Water Conservation Landscaping and Water Waste Ordinance, Pollen Control Ordinance, and the Design Standards (Sheet 2)

STREETS:

-All interior roadways will be private.

UTILITIES

All public waterlines that are not within public right-of-way shall be located in exclusive public waterline easements granted to the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). All sanitary sewer lines will be private.

PROJECT NUMBER: 1000270
Application Number: 14EPC-40024

This Plan is consistent with the specific Site Development Plan approved by the Environmental Planning Commission (EPC), dated May 8, 2014 and the Findings and Conditions in the Official Notification of Decision are satisfied.

Is an Infrastructure List required? () Yes () No If yes, then a set of approved DRC plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL:

<i>Bruce M. Muhl</i>	1/27/16
Traffic Engineering, Transportation Division	Date
<i>Christoph Coak</i>	01/27/16
ABCWUA	Date
<i>Carol S. Diamond</i>	1-27-16
Parks and Recreation Department	Date
<i>Steve</i>	1-27-16
City Engineer	Date
<i>/</i>	1-27-16
Solid Waste Management	Date
<i>Carl Coak</i>	1-27-16
DBB Chairperson, Planning Department	Date

AVIATION CENTER OF EXCELLENCE

SITE PLAN FOR SUBDIVISION

Prepared for:
City of Albuquerque Aviation Department

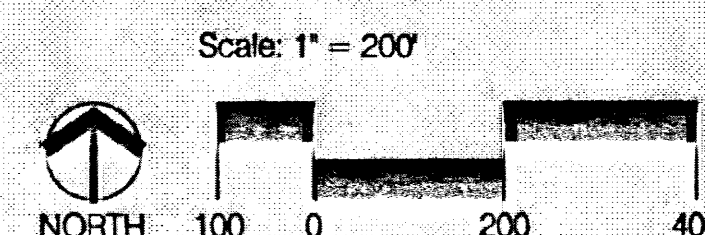
Prepared by:
Consensus Planning, Inc.
302 8th Street NW
Albuquerque, NM 87102

Molzen Corbin
2701 Miles Road SE
Albuquerque, NM 87106

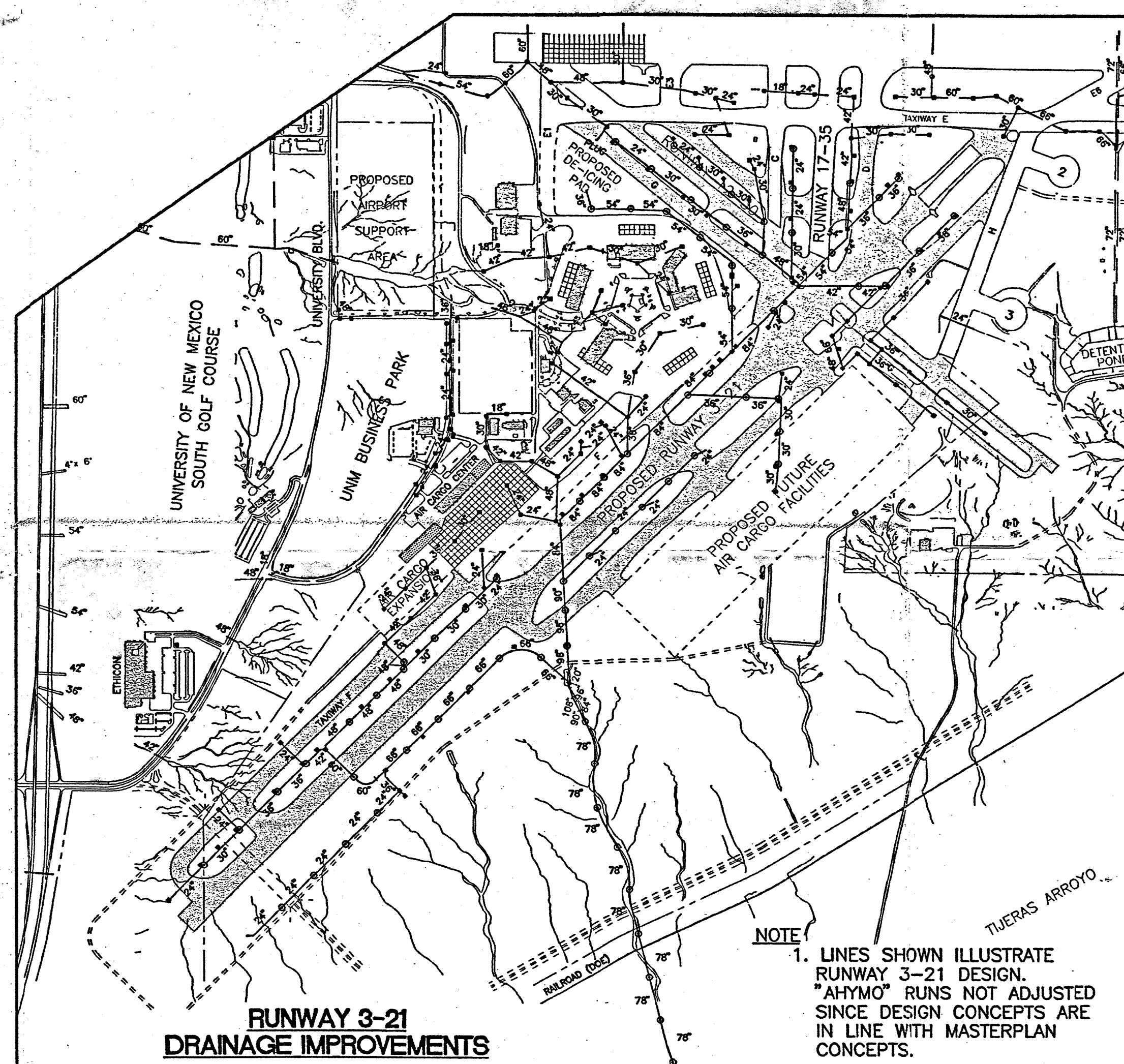
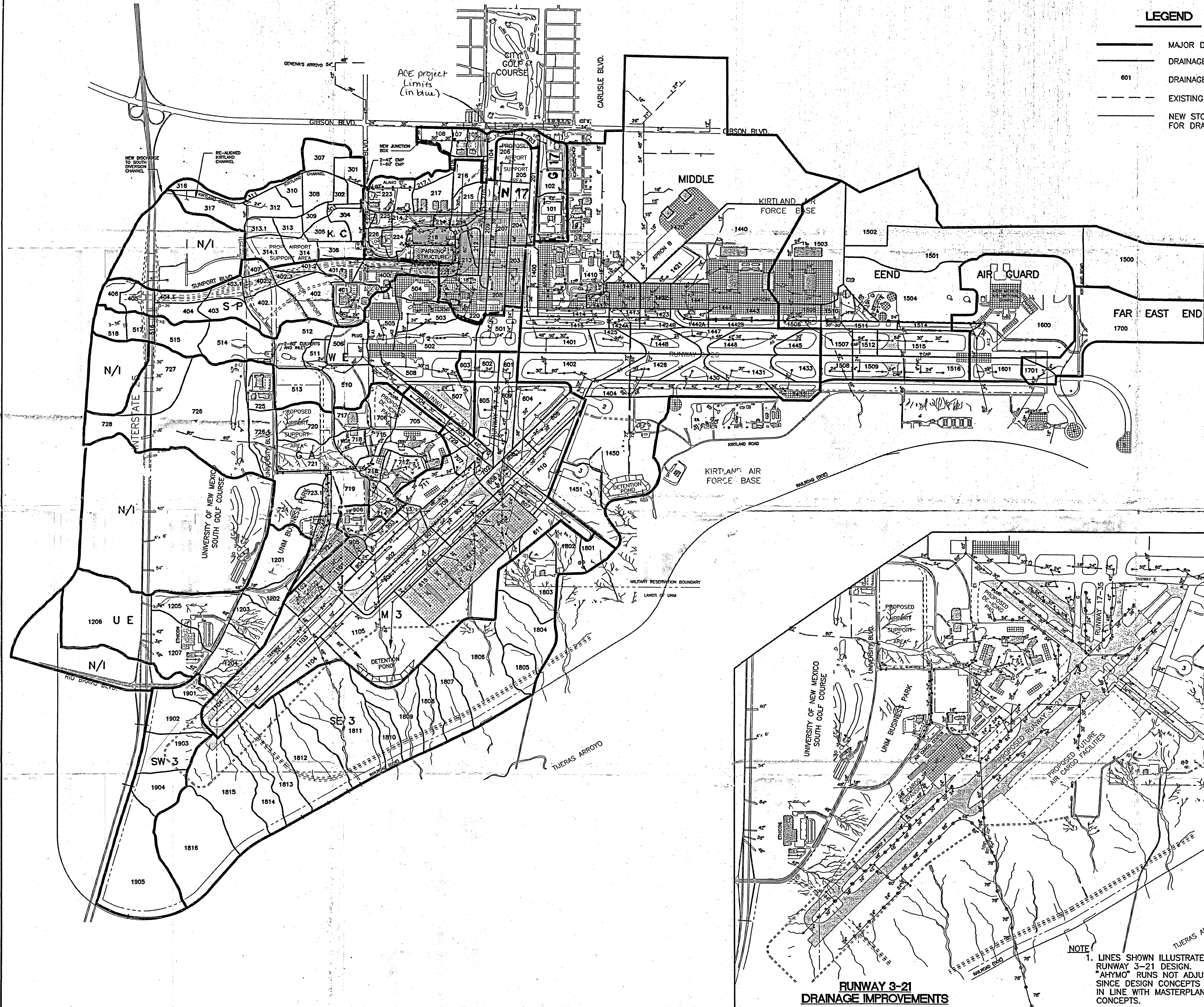
JANUARY 2016



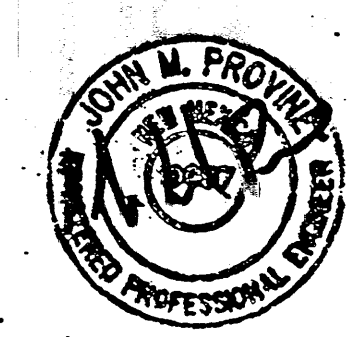
SHEET 1 OF 5



- ## LEGEND
- | | |
|-------|--------------------------------|
| ----- | PROPOSED IMPROVEMENTS BOUNDARY |
| ----- | PROPOSED LEASE BOUNDARY |
| ----- | AIRPORT PROPERTY LINE |
| ----- | OFF-STREET BICYCLE PATH |



NOTE
1. LINES SHOWN ILLUSTRATE
RUNWAY 3-21 DESIGN.
"AHYMO" RUNS NOT ADJUSTED
SINCE DESIGN CONCEPTS ARE
IN LINE WITH MASTERPLAN
CONCEPTS.



CITY OF ALBUQUERQUE		NEW MEXICO	
DRAINAGE BASIN MAP			
PROPOSED FUTURE DEVELOPMENT			
ALBUQUERQUE INTERNATIONAL AIRPORT			
MOLZEN-CORBIN		& Associates	
ENGINEERS/PLANNERS/CONSULTANTS Albuquerque • New Mexico • Las Cruces			
Designed	Drawn HC-A/JSL	Checked JMP	Sheet of
File	Date JAN. 1995	PLATE 4	

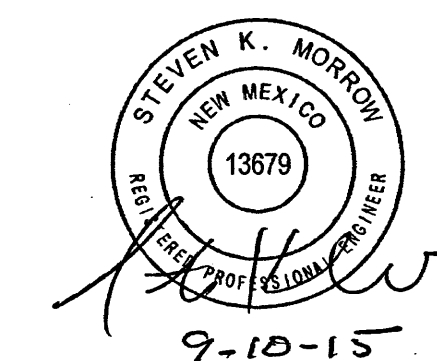
[illegible]

Provide a narrative
- this should act as a MDP for
this site + lay framework

1. THE DEVELOPER OF A LOT WILL BE REQUIRED TO MANAGE THE 90TH PERCENTILE STORM EVENT (FIRST FLUSH) ONSITE FOR THE RESPECTIVE LOT. THE ALBUQUERQUE DEPARTMENT OF AVIATION WILL MANAGE THE 90TH PERCENTILE STORM EVENT RUNOFF FOR THE NEW ROADWAYS, TAXIWAY, AND APRON ONSITE BY PONDS. FOR LARGER STORMS THE POND WILL OVERFLOW INTO THE STORM SEWER SYSTEM AS DESCRIBED BY THE ALBUQUERQUE INTERNATIONAL AIRPORT STORM DRAINAGE MASTER PLAN, MAY 1995.
2. Q SHOWN IS DISCHARGE GENERATED FROM EACH SITE (100 YR / 6 HR STORM), FLOWS IN EXCESS OF THE ALLOWABLE Q 100/6 SHALL BE PONDED ON SITE.
3. V SHOWN IS VOLUME GENERATED BY 100 YR / 24 HR STORM.
4. DESIGN OF STORM DRAINAGE FACILITIES WILL BE BASED ON THE ALBUQUERQUE INTERNATIONAL AIRPORT STORM DRAINAGE MASTER PLAN MAY 1995. THE MASTER PLAN INCLUDES A CONCEPTUAL STORM DRAIN PLAN FOR THE MANAGEMENT OF STORMWATER FROM THE SITE. HYDROLOGY IN THE MASTER PLAN ASSUMES THAT THE SITE WILL BE DEVELOPED IN MANNER SIMILAR TO THE PROPOSED DEVELOPMENT SHOWN IN THIS SITE PLAN FOR SUBDIVISION.

- ① EXISTING 24" STORM DRAIN TO BE REPLACED WITH 36" STORM DRAIN.
- ② EXISTING 18" STORM DRAIN TO BE REPLACED WITH 24" STORM DRAIN.
- ③ NEW 90TH PERCENTILE STORM EVENT RUNOFF MANAGEMENT POND.
- ④ EXISTING STORM DRAIN TO REMAIN. *until developed*
- ⑤ INTERIM PONDS FOR FIRST FLUSH MANAGEMENT. *sediment*

Provide % O that each Basin will adhere here to



AVIATION CENTER OF EXCELLENCE

MDP EXCELLENCE
CONCEPTUAL GRADING AND DRAINAGE PLAN

Prepared for:
City of Albuquerque Aviation Department

SEPTEMBER 2015

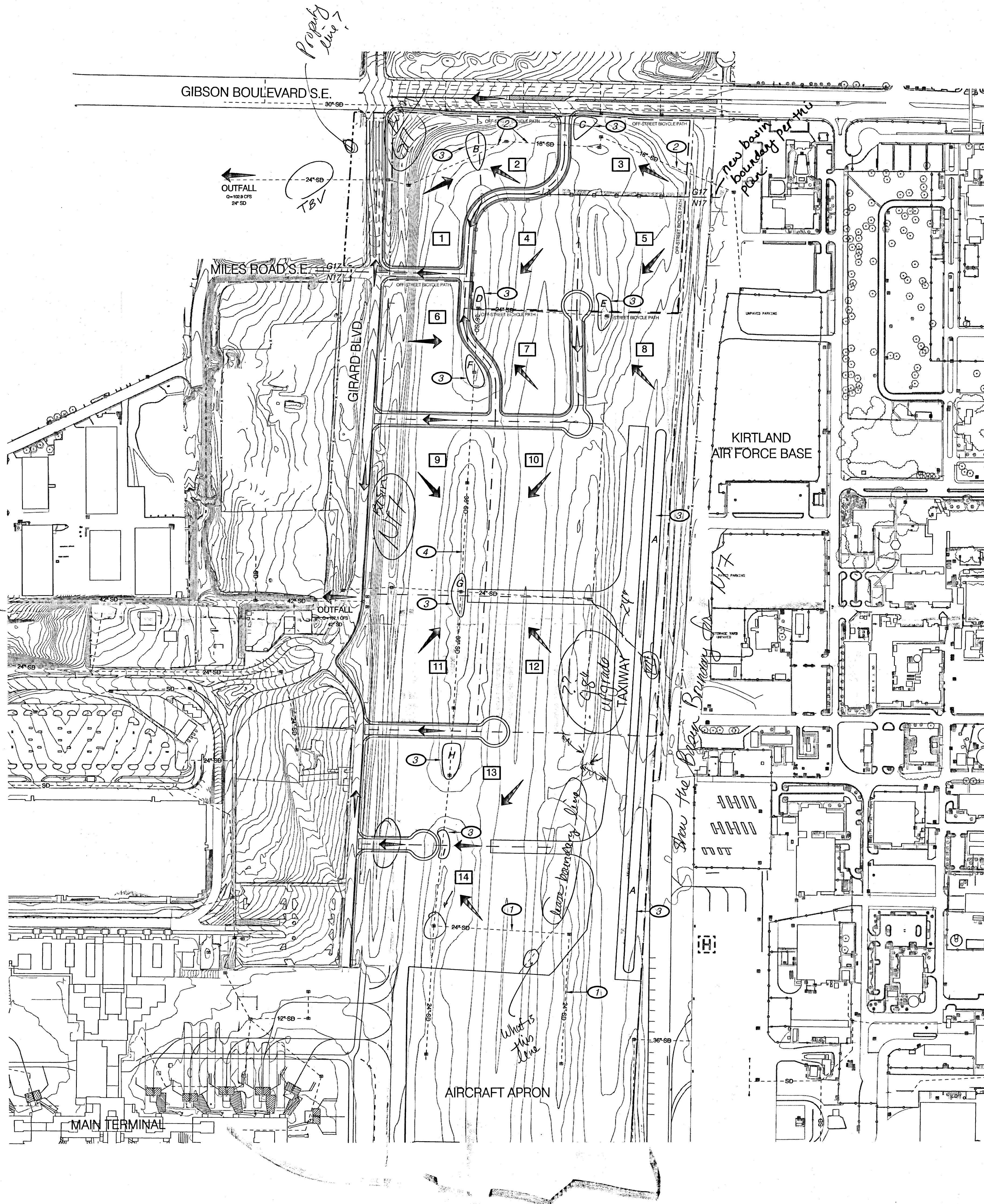
Prepared by:
Consensus Planning, Inc.
302 8th Street NW
Albuquerque, NM 87102

Molzen Corbin
2701 Miles Road SE
Albuquerque, NM 87106



SHEET 4 OF 5

* Shaded Properties boundary line
Verify that they are correct, consistent w/ site Plan



CONCEPTUAL DRAINAGE NARRATIVE

PROJECT DESCRIPTION:
The Albuquerque International Support is planning to develop the northern section of the property where the decommissioned Runway 17-35 is. The Support plans to develop and lease "lots" they've created for planning purposes. These lots are in the conceptual stage of design and could change in size and shape depending on the need of future developers. Lots 1 through 3 are planned for commercial retail/service, Lots 4 through 8 are planned for office development, and Lots 9 through 14 are planned for aviation and/or manufacturing. Refer to the map shown on this sheet for lot configuration. Interior access roads will be constructed as the site develops and associated improvements to Gibson Blvd and Girard Blvd will be constructed for access and capacity purposes. Improvements not included with the leaseable lots include a new taxiway and apron for aviation access to the lots.

It is important to note the lots lines shown are illustrative and there will be no subdivision actions on the property.

HYDROLOGIC CRITERIA:
The hydrologic criteria for this drainage report were determined using the City of Albuquerque Development Process Manual, Chapter 22. Hydrologic calculations were based on the 100yr/10day storm and precipitation data was collected from the NOAA Atlas specific to the project location. Tables listed below show first flush volumes and hydrologic characteristics of the site. References throughout this drainage report are made to the Albuquerque International Airport Storm Drainage Master Plan (AIA DMP) dated May, 1995. *mile 0.024*

EXISTING CONDITIONS:
The existing project site is approximately 116 acres and consists of an out-of-service runway and two unused taxiways. The location is utilized for remote parking for aircraft and special events. The site has not changed since the AIA DMP was accepted; consequently, all the existing conditions for the ACE Development can be assumed to be the same as the existing conditions in the AIA DMP.

Two basins from the AIA DMP encompass the project site. Refer to the attached pages from the AIA DMP for basin characteristics and outfalls. Runoff from the existing site is collected in the subsurface storm drainage system and infilled ponds onsite. The runoff from the project site within the N17 basin discharges into the Yale Blvd storm sewer system and outfalls into the Kirtland Channel. The project site within the G17 basin discharges into a storm sewer system between the developed commercial lots (west of the project site) and into the Gibson Blvd storm sewer system.

DEVELOPED CONDITIONS:
The developed condition for the ACE project site differs from the AIA DMP in the following instances: the AIA DMP proposed a terminal building expansion making a large portion the site impervious. The proposed basins boundaries will move based on lot development.

Though the land use description for the ACE project is different than the AIA DMP suggested, the hydrology can be used for the purposes of this report. The ACE site development is expected to have an overall area of impervious surfaces (and treatment D) equal to or less than what is shown in the AIA DMP. As each lot develops, the storm sewer system will be constructed to match proposed condition of the AIA DMP. Refer to the attached Drainage Basin Map for Proposed Future Development to note the increased sizes in storm sewer pipes. Table 1 below shows the hydrology of the site.

The developed condition basins for the ACE development will differ from the proposed basins in the AIA DMP; however, the overall area of each basin will remain the same. Due to the layout of the proposed lots for the ACE development, it is assumed that lots 1 through 3 will be incorporated into Basin G17 and the remaining project site will be incorporated into Basin N17. This change removes the southern ends of sub-basins 104 and 106 from Basin G17 and adds to Basin N17. The change also removes the northern ends of sub-basins 205 and 206 from Basin N17 and adds to Basin G17. The exchange in area is nearly identical, making the overall Basins' area equal to that shown in the AIA DMP. Refer to the attached Drainage Basin Map for Proposed Future Development for the updated Basin boundary layouts. Offsite flows are not anticipated to enter the project site.

The conceptual phasing for this project begins with demolition and grading of the entire site. As each lot is developed, the necessary access roads and/or taxiway will be constructed. EACH DEVELOPER OF A LOT WILL BE REQUIRED TO MANAGE THE 90TH PERCENTILE STORM EVENT (FIRST FLUSH) ONSITE BASED ON THE PROPERTIES OF THE RESPECTIVE LOT. Table 2 lists conceptual pond calculations for first flush management.

FIRST FLUSH CALCULATION

$$Volume_{first\ flush} = \frac{0.34\ in.}{12\ in/ft} \times Area_{land\ Treatment\ D}$$
$$2.4354\ ac \cdot ft = \frac{0.34\ in.}{12\ in/ft} \times 85.95\ ac\ (entire\ project\ site)$$

TABLE 1: SITE HYDROLOGY

LOT NO.	TOTAL AREA	IMPERVIOUS AREA	BASED ON 100YR/10DAY STORM		
			TOTAL VOLUME	FLOW	FIRST FLUSH
	(acres)	(acres)	(ac-ft)	(cfs)	(ac-ft)
1	4.07	3.4595	1.13	18.16	0.0980
2	2.22	1.8870	0.62	9.90	0.0535
3	3.53	3.0005	0.98	15.75	0.0850
4	4.28	3.6380	1.19	19.10	0.1031
5	4.25	3.6125	1.18	18.96	0.1024
6	4.38	3.7230	1.22	19.54	0.1055
7	3.63	3.0855	1.01	16.20	0.0874
8	3.97	3.3745	1.10	17.71	0.0956
9	6.49	5.5165	1.80	28.96	0.1563
10	6.52	5.5420	1.81	29.09	0.1570
11	5.06	4.3010	1.40	22.58	0.1219
12	5.06	4.3010	1.40	22.58	0.1219
13	8.43	7.1655	2.34	37.61	0.2030
14	8.43	7.1655	2.34	37.61	0.2030
Aviation R.O.W.	45.68	26.18	9.95	184.0	0.7418
Totals	116 ac	85.95 ac	29.47 ac-ft	497.75 cfs	2.4354 ac-ft

TABLE 2: POND CHARACTERISTICS

Pond Name	Pond Accepts Flows from	Pond Volume	Volume Required
		(ac-ft)	(ac-ft)
A	Proposed TW and Apron	1.94	0.75
B	Proposed Lots 1 & 2	0.29	0.16
C	Proposed Lot 3	0.17	0.09
D	Proposed Lots 4 & 7	0.23	0.19
E	Proposed Lots 5 & 8	0.35	0.26
F	Proposed Lot 6	0.18	0.11
G	Proposed Lots 9, 10, 11, & 12	0.58	0.56
H	Proposed Lot 13	0.25	0.21
I	Proposed Lot 14	0.25	0.21

LEGEND

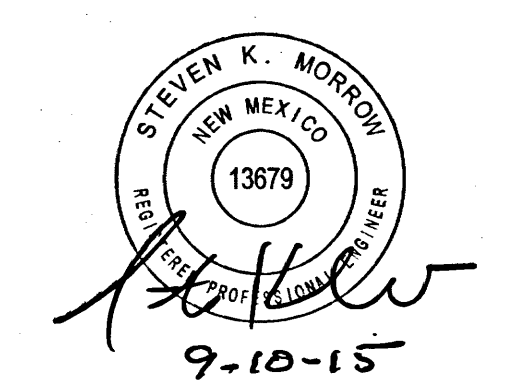
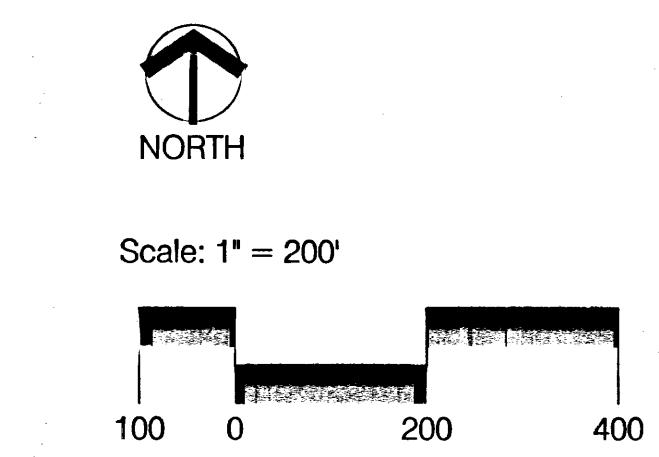
- 5317 ----- EXISTING TOPOGRAPHY CONTOUR
- 6347 ----- NEW TOPOGRAPHY CONTOUR
- SD ----- EXISTING STORM DRAINAGE UTILITIES
- ← DRAINAGE FLOW DIRECTION
- 5 LOT NUMBER
- C CONCEPTUAL POND

NOTES

- THE DEVELOPER OF A LOT WILL BE REQUIRED TO MANAGE THE 90TH PERCENTILE STORM EVENT (FIRST FLUSH) ONSITE FOR THE RESPECTIVE LOT. THE ALBUQUERQUE DEPARTMENT OF AVIATION WILL MANAGE THE 90TH PERCENTILE STORM EVENT RUNOFF FOR THE NEW ROADWAYS, TAXIWAY, AND APRON ONSITE BY PONDS. FOR LARGER STORMS THE POND WILL OVERFLOW INTO THE STORM SEWER SYSTEM AS DESCRIBED BY THE ALBUQUERQUE INTERNATIONAL AIRPORT STORM DRAINAGE MASTER PLAN, MAY 1995.
- Q SHOWN IS DISCHARGE GENERATED FROM EACH SITE (100 YR / 6 HR STORM), FLOWS IN EXCESS OF THE ALLOWABLE Q 100/6 SHALL BE PONDED ON SITE.
- V SHOWN IS VOLUME GENERATED BY 100 YR / 24 HR STORM.
- DESIGN OF STORM DRAINAGE FACILITIES WILL BE BASED ON THE ALBUQUERQUE INTERNATIONAL AIRPORT STORM DRAINAGE MASTER PLAN MAY 1995. THE MASTER PLAN INCLUDES A CONCEPTUAL STORM DRAIN PLAN FOR THE MANAGEMENT OF STORMWATER FROM THE SITE. HYDROLOGY IN THE MASTER PLAN ASSUMES THAT THE SITE WILL BE DEVELOPED IN MANNER SIMILAR TO THE PROPOSED DEVELOPMENT SHOWN IN THIS SITE PLAN FOR SUBDIVISION.

KEYED NOTES

- 1 EXISTING 24" STORM DRAIN TO BE REPLACED WITH 36" STORM DRAIN.
- 2 EXISTING 18" STORM DRAIN TO BE REPLACED WITH 24" STORM DRAIN.
- 3 NEW 90TH PERCENTILE STORM EVENT RUNOFF MANAGEMENT POND.
- 4 EXISTING STORM DRAIN TO REMAIN.



AVIATION CENTER OF EXCELLENCE

CONCEPTUAL GRADING AND DRAINAGE PLAN

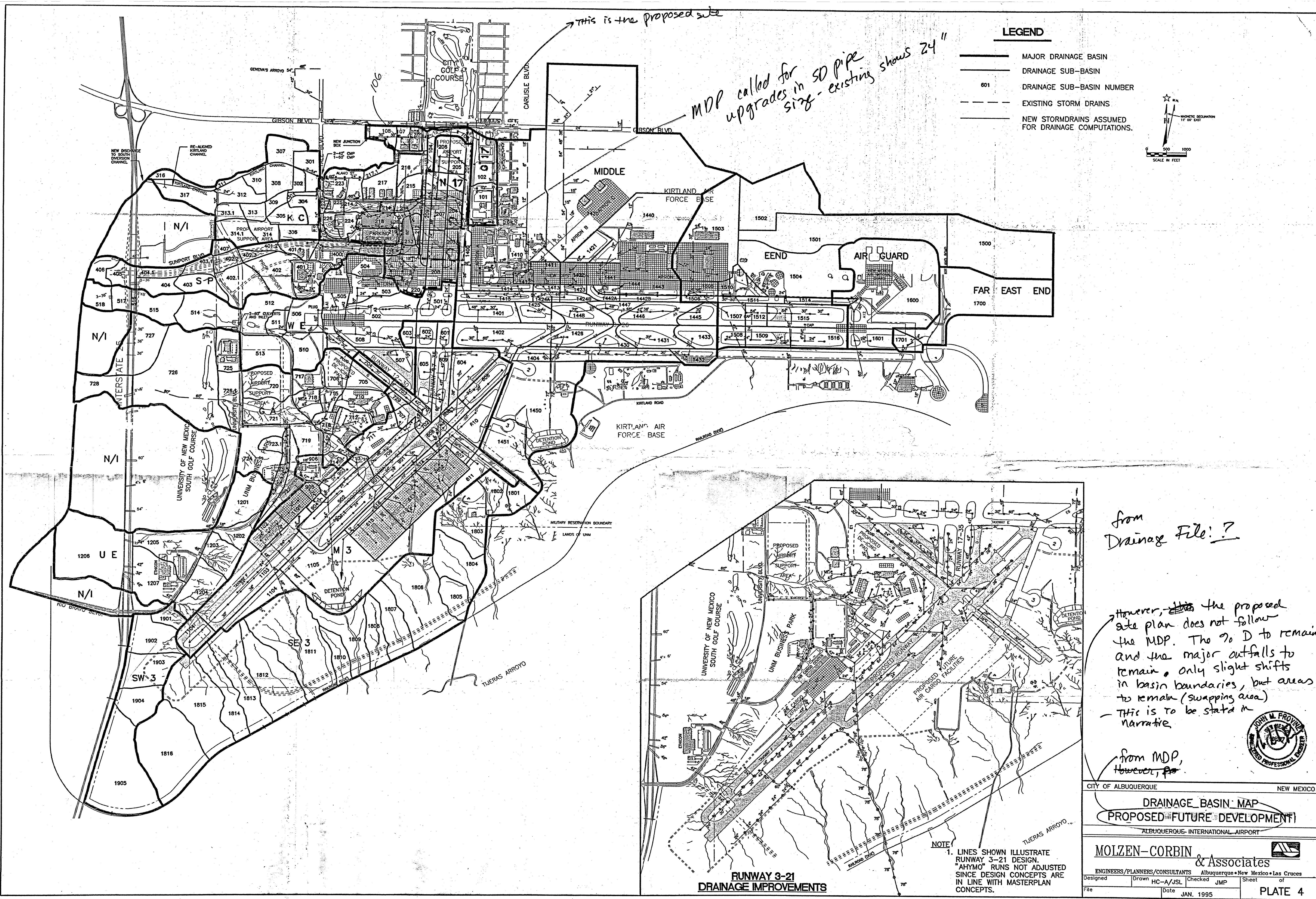
Prepared for:
City of Albuquerque Aviation Department

SEPTEMBER 2015

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from Drainage File: ?

However, the proposed site plan does not follow the MDP. The 90 D to remain and the major outfalls to remain, only slight shifts in basin boundaries, but areas to remain (swapping area) - This is to be stated in narrative.

from MDP, however, for

CITY OF ALBUQUERQUE NEW MEXICO

DRAINAGE BASIN MAP
PROPOSED FUTURE DEVELOPMENT

ALBUQUERQUE INTERNATIONAL AIRPORT

MOLZEN-CORBIN & Associates

ENGINEERS/PLANNERS/CONSULTANTS Albuquerque • New Mexico • Las Cruces

Designed	Drawn HC-A/JSL	Checked JMP	Sheet of
File	Date JAN. 1995	PLATE 4	