



This is a detailed site plan for a property located at 1600 Fifth Street NW and Bellamah Avenue NW. The plan shows an existing building with a footprint of 4960.80 square feet. A new asphalt parking lot is being added to the site. The plan includes numerous survey points with elevations, such as TSW58.17, TSW58.71, TSW58.23, and TSW60.23. It also shows various features like an adobe wall, a single-strand barrier, and a 6-inch concrete sidewalk. The plan is oriented with 1600 Fifth Street NW to the left and Bellamah Avenue NW at the bottom. The site is bounded by a match line on the left and a match line on the right. The plan includes a north arrow pointing towards the top right. The site is divided into several numbered areas (1 through 9) and a landscaped area. The plan also shows a new asphalt parking lot and a 6-inch concrete sidewalk. The plan includes various survey points with elevations, such as TSW58.17, TSW58.71, TSW58.23, and TSW60.23. The plan also shows various features like an adobe wall, a single-strand barrier, and a 6-inch concrete sidewalk. The plan is oriented with 1600 Fifth Street NW to the left and Bellamah Avenue NW at the bottom. The site is bounded by a match line on the left and a match line on the right. The plan includes a north arrow pointing towards the top right. The site is divided into several numbered areas (1 through 9) and a landscaped area. The plan also shows a new asphalt parking lot and a 6-inch concrete sidewalk. The plan includes various survey points with elevations, such as TSW58.17, TSW58.71, TSW58.23, and TSW60.23.

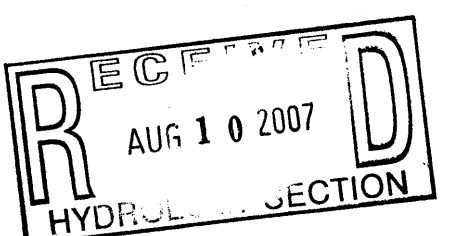
## GRADING PLAN

**CONSTRUCTION NOTES:**

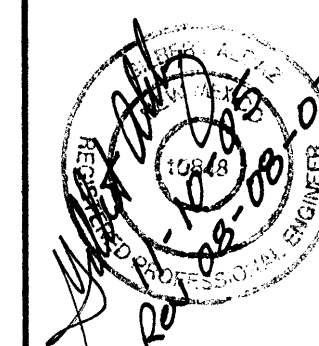
- ### UTILITY PRECAUTIONS

**GRAPHIC SCALE**

( IN FEET )  
1 inch = 20ft.



FILE:



**Applied Engineering & Suveying, Inc.**  
1605 BLAIR DRIVE NE  
ALBUQUERQUE, NEW MEXICO 87112 PH: (505)237-1456

DATE/REVISIONS:

SHEET NUMBER:

1

DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE EXPANSION OF THE QUAKER BUILDING AT 1600 FIFTH STREET NW, ALBUQUERQUE, NEW MEXICO, GRADING AND DRAINAGE PLAN ARE CONTAINED HEREON:

1. DRAINAGE CALCULATIONS  
2. VICINITY MAP (J-14)  
3. FLOOD INSURANCE RATE MAP 35001C0332D

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE NORTHEARST CORNER OF FIFTH STREET NW AND BELLAMAH AVENUE NW AT 1600 FIFTH STREET NW, (SEE ATTACHED VICINITY MAP (J-14). THE PARCEL'S LEGAL DESCRIPTION IS LOTS 19 THROUGH 25, BLOCK NUMBER 2, IVES ADDITION IN THE CITY OF ALBUQUERQUE. THE PROPERTY IS BOUNDED ON THE SOUTH BY BELLAMAH AVENUE, TO THE EAST BY A PUBLIC ALLEY, TO THE WEST BY FIFTH STREET AND TO THE NORTH BY LOT 18. THIS SITE CONTAINS APPROXIMATELY 0.57 ACRES. LOTS 21 THROUGH 25 ARE CURRENTLY DEVELOPED WITH AN EXISTING BUILDING, ASPHALT PAVING PARKING LOT, SIDEWALKS AND LANDSCAPING. LOTS 19 AND 20 ARE CURRENTLY UNDEVELOPED WITH MINIMAL VEGETATION.

THE SITE IS CURRENTLY NOT IN A DESIGNATED 100-YEAR FLOODPLAIN; HOWEVER, BELLAMAH AVENUE AND FIFTH STREET ARE CONSIDERED IN A DESIGNATED 100-YEAR FLOODPLAIN WITH ZONE AO (DEPTH 1 FOOT).

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING PLAN PREPARED FOR THIS SITE, THE INTENT IS TO CONSTRUCT A A NEW PARKING LOT, NEW SIDEWALKS AND ASSOCIATED LANDSCAPING TO MEET CITY ZONING REQUIREMENTS.

THERE IS AN EXISTING STREET DROP INLET LOCATED AT THE SOUTHWEST CORNER OF THIS SITE WHICH IS THE NORTHEAST CORNER OF THE INTERSECTION OF FIFTH STREET NW AND BELLAMAH AVENUE NW. THIS INLET CONNECTS INTO A STORMDRAIN LINE THAT IS IN BELLAMAH AVENUEW NW.

FLOWES FROM THE PARKING LOT WILL SHEETFLOW THROUGH THE PARKING LOT AND INTO FIFTH STREET. THE FLOWS FROM THIS AREA WILL DRAIN NORTH ON FIFTH STREET.

THE CALCULATIONS THAT APPEAR HEREON, ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL RUNOFF FOR PEAK FLOWS AND STORM DURATION FOR VOLUME REQUIREMENTS. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS AS SET FORTH IN THE REVISION OF SECTION 22.7 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993. THIS D.P.M. PROCEDURE IS USED FOR ANALYZING ONSITE FLOWS.

DOWNSTREAM CAPACITY

BASED ON A REVIEW OF THE EXISTING DEVELOPMENT IT DOES NOT APPEAR THAT THE INCREASED FLOWS DUE TO THE PROPOSED RECONSTRUCTION OF THE EXISTING PARKING LOT SHOULD NOT SIGNIFICANTLY INCREASE THE OFFSITE FLOWS TO DOWNSTREAM PROPERTIES SINCE THIS IS AN INFILL SITE.

EROSION CONTROL

THE CONTRACTOR WILL BE REQUIRED TO MINIMIZE SEDIMENT INTO THE PUBLIC ROADWAYS OR ALLEYS. CONTRACT WILL BE REQUIRED TO PROTECT THE EXISTING INLET WITH SEDIMENT CONTROL MEASURES IN ORDER TO MINIMIZE SEDIMENT FROM ENTERING THIS INLET.

OFFSITE FLOWS

BASED ON A FIELD VISIT OF THE SITE AND REVIEW OF THE TOPOGRAPHIC SURVEY IT APPEARS THAT NO OFFSITE FLOWS ENTER THIS PROPERTY.

DRAINAGE CALCULATIONS

1. PRECIPITATION ZONE = 2
2. DESIGN STORM = DEPTH (INCHES) AT 100-YEAR STORM  
6-HOUR = 2.35 INCHES  
24-HOUR = 2.75 INCHES  
10 DAY = 3.95 INCHES
3. PEAK DISCHARGE (CFS/ACRE) FIR 100-YEAR, ZONE 2, TABLE A-9:  
Q = 1.56 CFS/ACRE SOIL UNCOMPACTED "A"  
Q = 2.28 CFS/ACRE LANDSCAPED "B"  
Q = 3.14 CFS/AC COMPACTED SOIL "C"  
Q = 4.70 CFS/ACRE IMPERVIOUS AREA "D"  
FOR WATERSHEDS LESS THAN OR EQUAL TO 40 ACRES
4. EXCESS PRECIPITATION, E (INCHES), 6 HOUR STORM, ZONE 2, TABLE A-8:  
E = 0.53 INCHES SOIL UNCOMPACTED "A"  
E = 0.78 INCHES LANDSCAPED "B"  
E = 1.13 INCHES COMPACTED SOIL "C"  
E = 2.12 INCHES IMPERVIOUS AREA "D"
5. EXISTING CONDITIONS ONSITE:  
EXISTING TOTAL AREA OF SITE = 0.57ACRES  
EXISTING BUILDING SITE AREA = 2,260SF = 0.05ACRES  
EXISTING SIDEWALKS AND PAVING AREA = 486SF + 6,540SF  
= 7,026SF = 0.16ACRES  
TREATMENT "D" AREA = 0.05 + 0.16ACRES = 0.21ACRES  
REMAINING AREA IS COMPACTED BY HUMAN ACTIVITY  
= 0.57ACRES - 0.21 = 0.36ACRES  
TREATMENT "C" AREA = 0.36ACRES

TREATMENT	AREA(ACRES)
A	0
B	0
C	0.36
D	0.21

Q(EXISTING-6HR) = (3.14 X 0.36) + (4.70 X 0.21)  
= 2.12CFS (6HR) EXISTING ONSITE FLOW  
V(EXISTING-6HR) = ((1.13 X 0.36) + (2.12 X 0.21))/ 12)  
= 0.07AC-FT = 3.093CF EXISTING ONSITE VOLUME

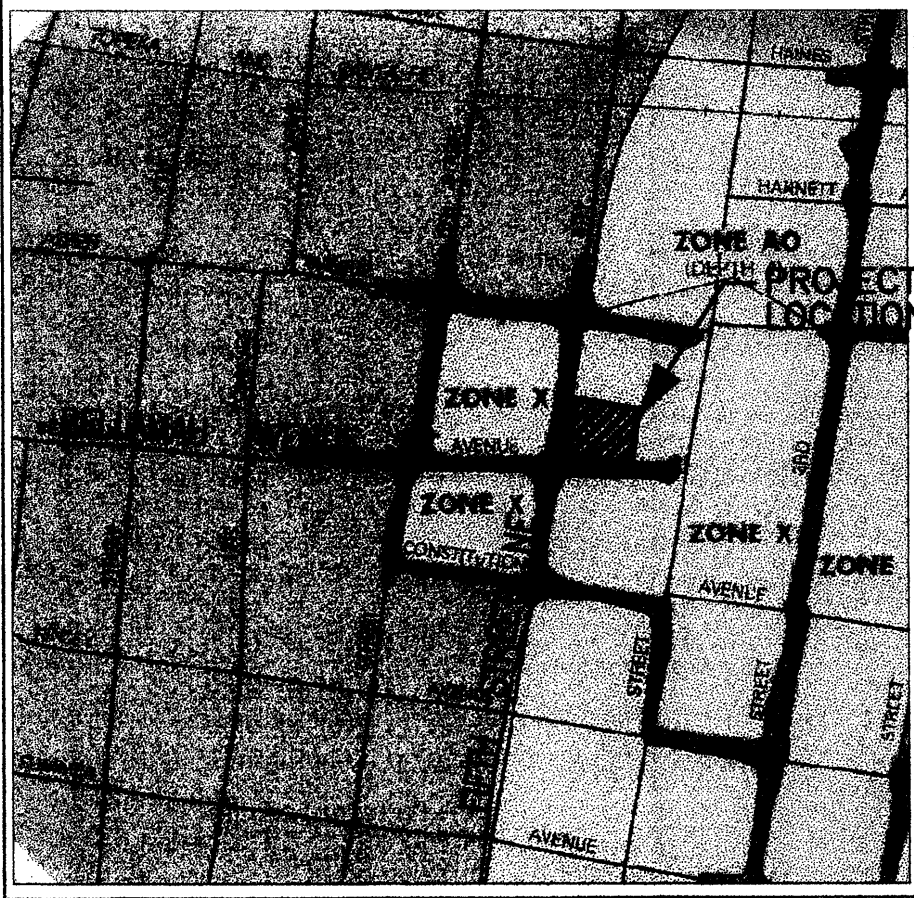
6. PROPOSED CONDITIONS ONSITE:  
PROPOSED NEW SIDEWALKS AND PARKING LOT AREA = 1,885SF - 129SF  
+ 7,923SF + 130SF = 9,809SF = 0.23ACRES  
TOTAL IMPERVIOUS AREA PROPOSED WITH EXISTING BUILDING &  
SIDEWALKS = 0.23AC + 0.06 = 0.29ACRES  
TREATMENT "D" AREA = 0.29ACRES  
TREATMENT "B" AREA = 0.05ACRES  
TREATMENT "C" AREA = 0.23ACRES

TREATMENT	AREA(ACRES)
A	0
B	0.05
C	0.23
D	0.29

Q(PROPOSED-6HR) = (2.28 X 0.05) + (3.14X0.23) + (4.70 X 0.29)  
= 2.20CFS (6HR) PROPOSED ONSITE FLOW  
V(PROPOSED-6HR) = ((0.78 X 0.05) + (1.13X0.23) + (2.12 X 0.29))/ 12)  
= 0.08AC-FT = 3.317CF PROPOSED ONSITE VOLUME

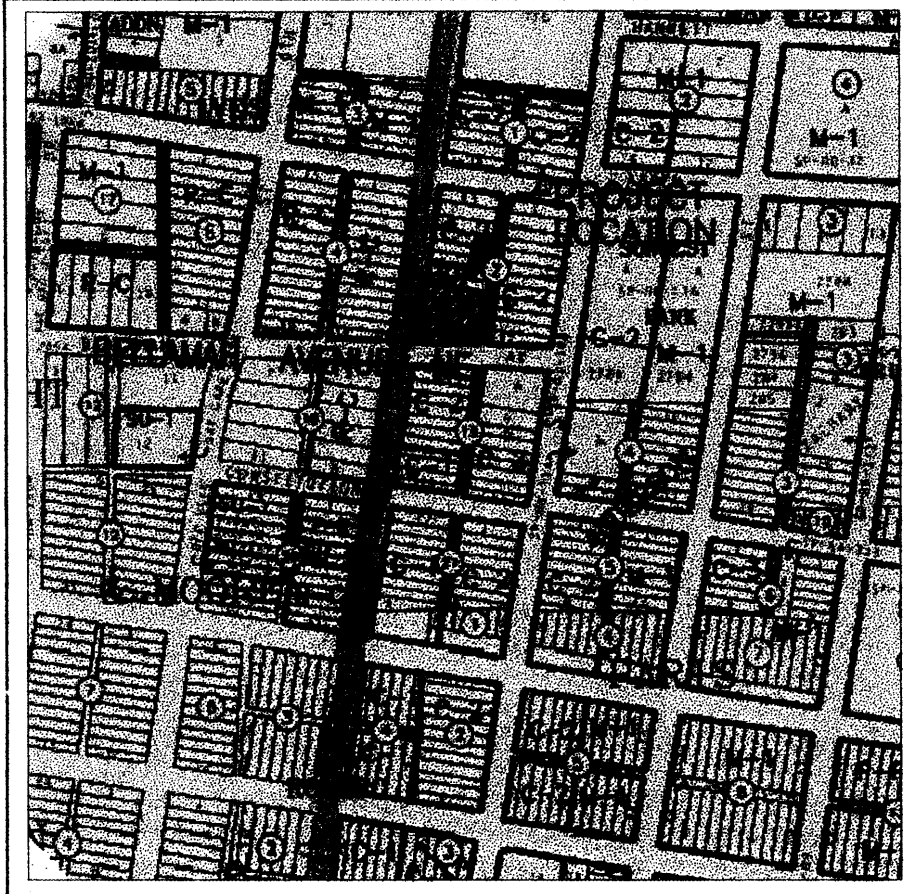
Q(INCREASE FROM THIS DEVELOPMENT) = 2.20CFS - 2.12CFS  
= 0.08CFS INCREASE NEGLIGIBLE

V(INCREASE FROM THIS DEVELOPMENT) = 3,317CF - 3,093CF  
= 224CF INCREASE NEGLIGIBLE



FIRM MAP 35001C0332D

SCALE: N.T.S.



VICINITY MAP J-14

SCALE: N.T.S.

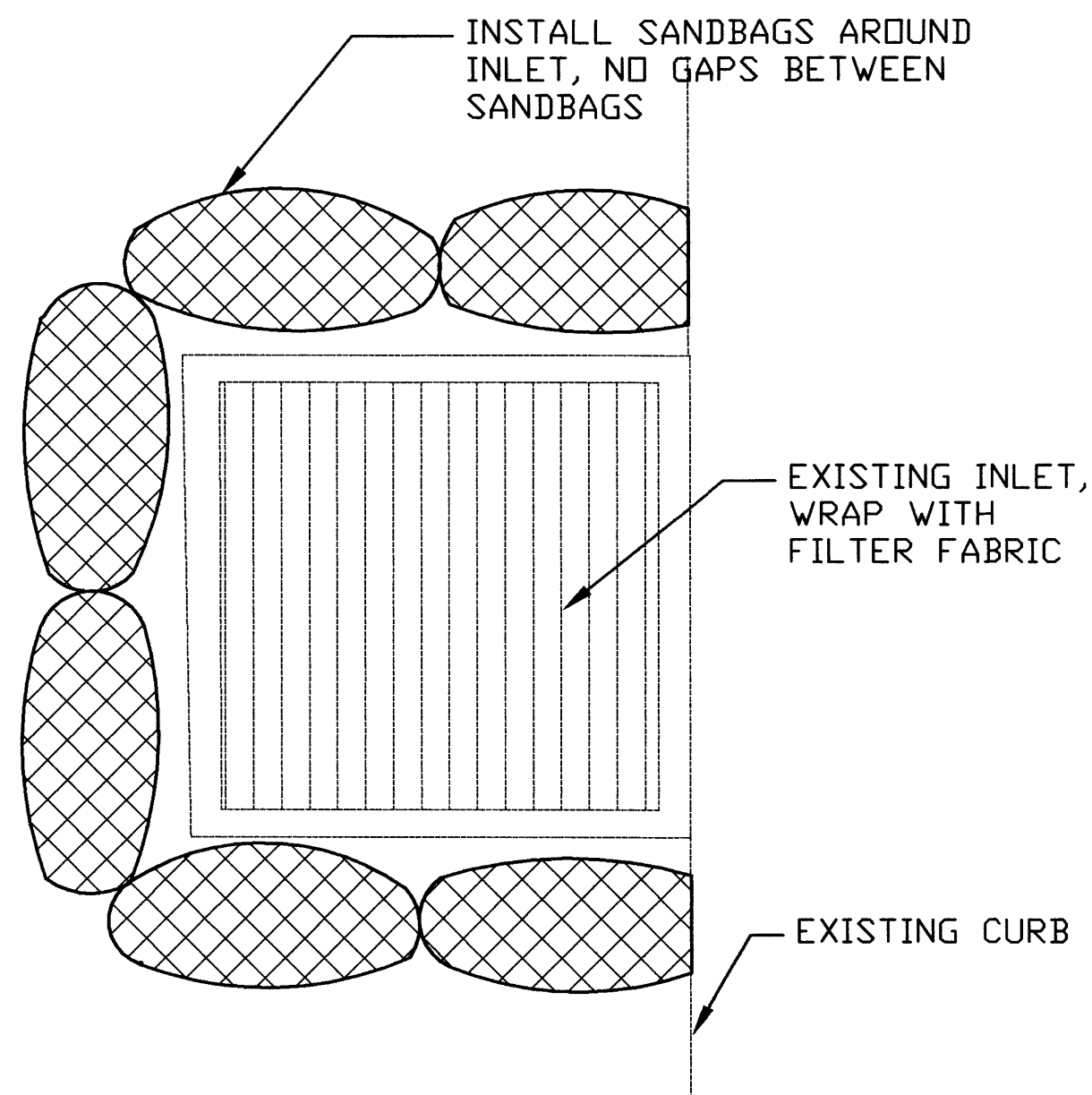


**UTILITY PRECAUTIONS**  
THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

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AUG 10 2007  
HYDROLOGY SECTION

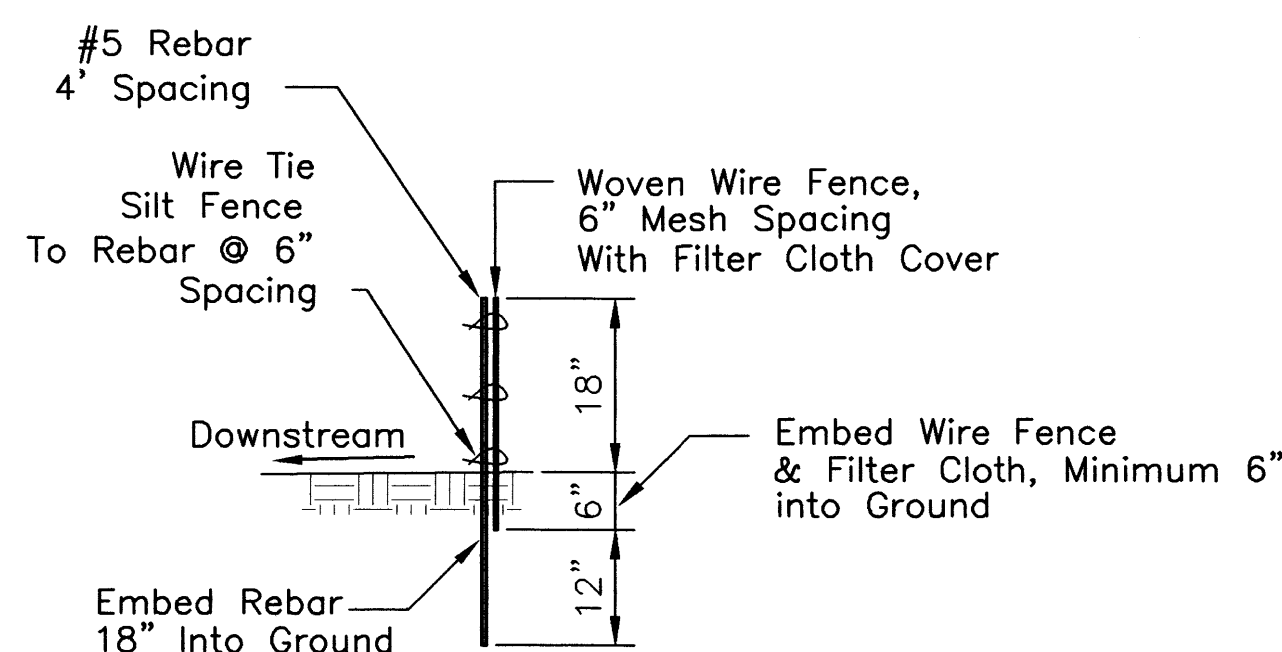
FILE:	<b>DRAINAGE CALCULATIONS AND MAPS</b> <b>QUAKER BUILDING</b> <b>XX</b> <b>ALBUQUERQUE, NEW MEXICO</b>	DATE/REVISIONS:
	Applied Engineering & Surveying, Inc. 1605 BLAIR DRIVE NE ALBUQUERQUE, NEW MEXICO 87112 PH: (505)237-1456	SHEET NUMBER:  2





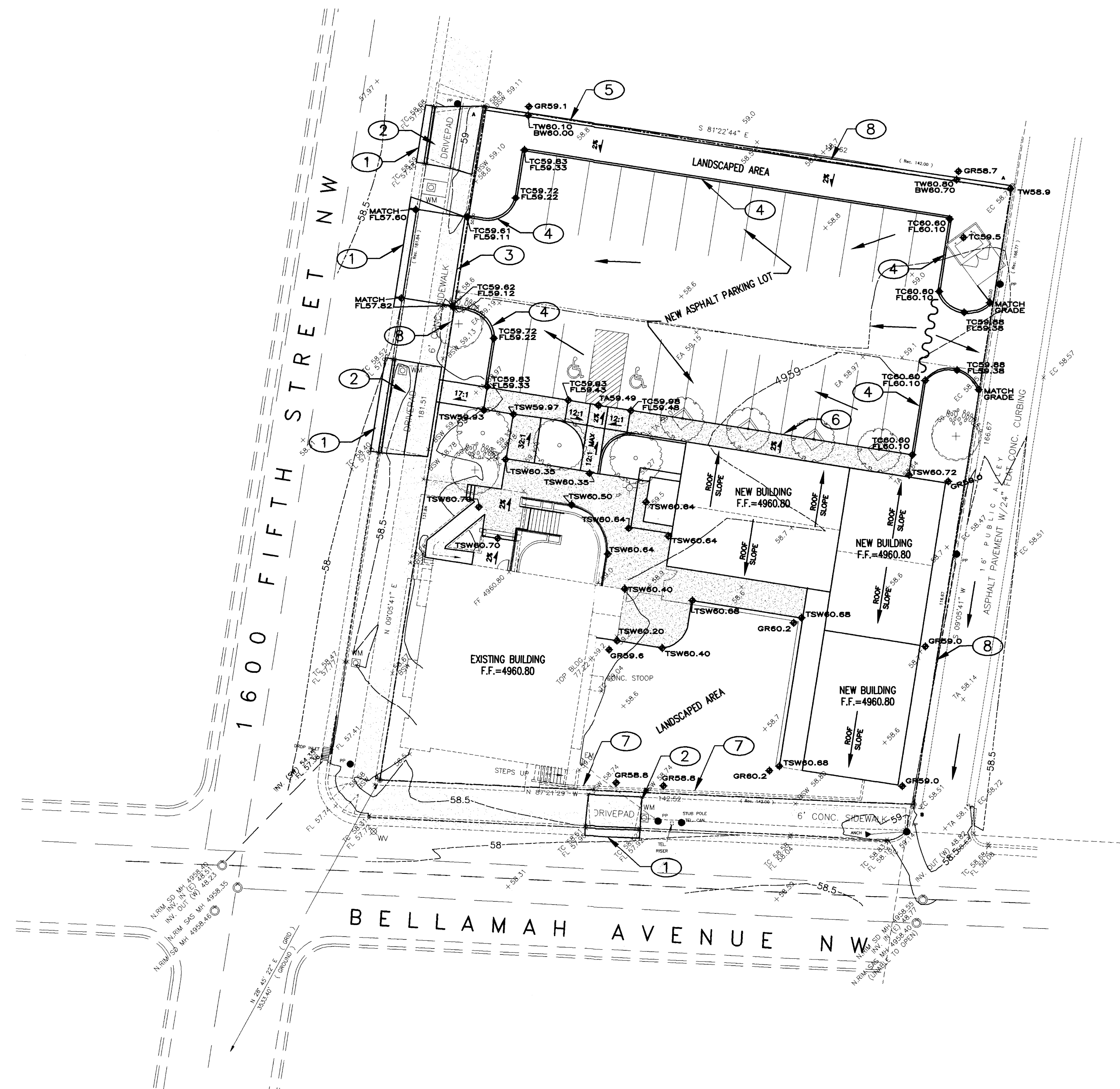
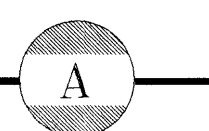
### INLET PROTECTION REQUIREMENTS

- SANDBAGS:**
- SANDBAGS SHALL CONSIST OF A WOVEN POLYPROPYLENE FABRIC SEWN TOGETHER WITH DOUBLE STITCHING.
  - OVERALL SIZE OF THE SANDBAG SHALL BE AT LEAST 14 X 26 INCHES.
  - THE GEOTEXTILE SHALL BE MnDOT TYPE I (PERMEABLE FABRICS) OR EQUIVALENT.
  - NO GAPS SHALL BE PLACED BETWEEN SANDBAGS.



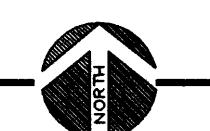
### SILT FENCE DETAIL

SCALE: 1/2" = 1'-0"



### GRADING PLAN

SCALE: 1" = 20'

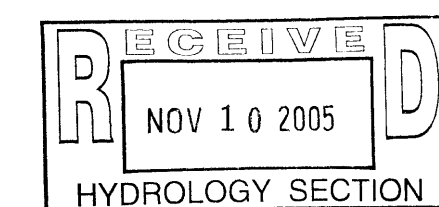
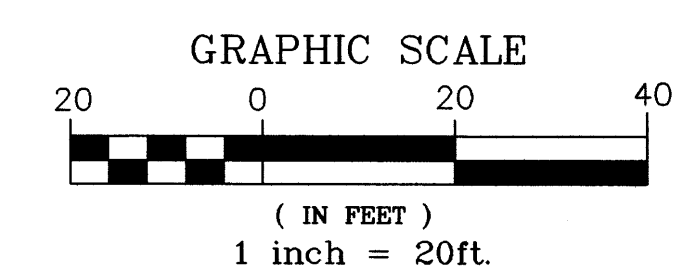



LEGEND			
5360	NEW CONTOUR GRADE		NEW GRADE BREAK
5362	EXISTING CONTOUR GRADE		EXISTING GRADE ELEVATION
	DRAINAGE FLOW DIRECTION		NEW GRADE ELEVATION
	NEW TOP OF CURB ELEVATION		FLOWLINE GRADE ELEVATION
	NEW FLOWLINE OF CURB ELEVATION		NEW TOP OF WALL ELEVATION
	NEW TOP OF ASPHALT ELEVATION		NEW BOTTOM OF WALL ELEVATION
	NEW TOP OF SIDEWALK ELEVATION		NEW TOP OF CONCRETE ELEVATION
	DRAINAGE SWALE		

### CONSTRUCTION NOTES:

- APPROXIMATE LIMITS OF CURB AND GUTTER REMOVAL AND REPLACEMENT LIMITS, RECONSTRUCT PER CITY STD. DWG. 2415A WITH STANDARD CURB AND GUTTER.
- REMOVE EXISTING DRIVEWAY AND CONSTRUCT SIDEWALK PER CITY STD. DWG. 2430.
- REMOVE EXISTING SIDEWALK AND CONSTRUCT DRIVEWAY PER CITY STD. DWG. 2425.
- CONSTRUCT HEADER CURB PER CITY STD. DWG. 2415B.
- CONSTRUCT 1' HIGH TO 2' HIGH RETAINING WALL (SEE STRUCTURAL DRAWINGS).
- CONSTRUCT SIDEWALK PER CITY STD. DWG. 2430.
- TURN BLOCK AT GRADE EVERY 8 FEET HORIZONTALLY TO ALLOW DRAINAGE FLOWS FROM SITE TO EXIT INTO BELLAMAH AVENUE NW.
- PROVIDE SILT FENCE PER DETAIL SHOWN ON THIS SHEET ALONG PERIMETER OF ENTIRE CONSTRUCTION SITE. CONTRACTOR SHALL MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION UNTIL SUCH TIME THAT FINAL INSPECTION PERFORMED BY CITY OF ALBUQUERQUE OR PERMANENT STABILIZATION HAS BEEN ESTABLISHED.
- EXISTING INLET TO BE PROTECTED FROM SEDIMENT, SEE DETAIL THIS SHEET.

**UTILITY PRECAUTIONS**  
THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.



FILE:	<div>DRAINAGE AND GRADING PLAN FOR QUAKER BUILDING at 1600 FIFTH STREET NW ALBUQUERQUE, NEW MEXICO</div>	DATE/REVISIONS:
		SHEET NUMBER: <div>1</div>
<div>Applied Engineering &amp; Surveying, Inc. 1605 BLAIR DRIVE NE ALBUQUERQUE, NEW MEXICO 87112    PH: (505)237-1456</div>		



DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE EXPANSION OF THE QUAKER BUILDING AT 1600 FIFTH STREET NW, ALBUQUERQUE, NEW MEXICO, GRADING AND DRAINAGE PLAN ARE CONTAINED HEREON:

- 1. DRAINAGE CALCULATIONS
- 2. VICINITY MAP (J-14)
- 3. FLOOD INSURANCE RATE MAP 35001C0332D

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE NORTHEARST CORNER OF FIFTH STREET NW AND BELLAMAH AVENUE NW AT 1600 FIFTH STREET NW, (SEE ATTACHED VICINITY MAP (J-14). THE PARCEL'S LEGAL DESCRIPTION IS LOTS 19 THROUGH 25, BLOCK NUMBER 2, IVES ADDITION IN THE CITY OF ALBUQUERQUE. THE PROPERTY IS BOUNDED ON THE SOUTH BY BELLAMAH AVENUE, TO THE EAST BY A PUBLIC ALLEY, TO THE WEST BY FIFTH STREET AND TO THE NORTH BY LOT 18. THIS SITE CONTAINS APPROXIMATELY 0.57 ACRES. LOTS 21 THROUGH 25 ARE CURRENTLY DEVELOPED WITH AN EXISTING BUILDING, ASPHALT PAVING PARKING LOT, SIDEWALKS AND LANDSCAPING. LOTS 19 AND 20 ARE CURRENTLY UNDEVELOPED WITH MINIMAL VEGETATION.

THE SITE IS CURRENTLY NOT IN A DESIGNATED 100-YEAR FLOODPLAIN; HOWEVER, BELLAMAH AVENUE AND FIFTH STREET ARE CONSIDERED IN A DESIGNATED 100-YEAR FLOODPLAIN WITH ZONE AO (DEPTH 1 FOOT).

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING PLAN PREPARED FOR THIS SITE, THE INTENT IS TO CONSTRUCT A 3,500SF NEW BUILDING, A NEW PARKING LOT, NEW SIDEWALKS AND ASSOCIATED LANDSCAPING TO MEET CITY ZONING REQUIREMENTS.

THERE IS AN EXISTING STREET DROP INLET LOCATED AT THE SOUTHWEST CORNER OF THIS SITE WHICH IS THE NORTHEAST CORNER OF THE INTERSECTION OF FIFTH STREET NW AND BELLAMAH AVENUE NW. THIS INLET CONNECTS INTO A STORMDRAIN LINE THAT IS IN BELLAMAH AVENUE NW.

FLOWS FROM THE PARKING LOT AND A PORTION OF THE NEW BUILDING WILL SHEETFLOW THROUGH THE PARKING LOT AND INTO FIFTH STREET. THE FLOWS FROM THIS AREA WILL DRAIN NORTH ON FIFTH STREET.

THE SOUTHERN PORTION OF THE NEW BUILDING WILL FLOW SOUTH AND INTO BELLAMAH AVENUE NW AND TOWARDS THE EXISTING INLET LOCATED AT THE SOUTHWEST CORNER OF THIS SITE.

THE CALCULATIONS THAT APPEAR HEREON, ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL RUNOFF FOR PEAK FLOWS AND STORM DURATION FOR VOLUME REQUIREMENTS. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS AS SET FORTH IN THE REVISION OF SECTION 22.7 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993. THIS D.P.M. PROCEDURE IS USED FOR ANALYZING ONSITE FLOWS.

DOWNSTREAM CAPACITY

BASED ON A REVIEW OF THE EXISTING DEVELOPMENT IT DOES NOT APPEAR THAT THE INCREASED FLOWS DUE TO THE PROPOSED BUILDING ADDITION AND RELOCATION OF THE PARKING LOT SHOULD SIGNIFICANTLY INCREASE THE OFFSITE FLOWS TO DOWNSTREAM PROPERTIES SINCE THIS IS AN INFILL SITE.

EROSION CONTROL

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE SILT FENCES AROUND THE PROPOSED CONSTRUCTION AREAS TO MINIMIZE SEDIMENT INTO THE PUBLIC ROADWAYS OR ALLEYS. CONTRACT WILL BE REQUIRED TO PROTECT THE EXISTING INLET WITH SEDIMENT CONTROL MEASURES IN ORDER TO MINIMIZE SEDIMENT FROM ENTERING THIS INLET.

OFFSITE FLOWS

BASED ON A FIELD VISIT OF THE SITE AND REVIEW OF THE TOPOGRAPHIC SURVEY IT APPEARS THAT NO OFFSITE FLOWS ENTER THIS PROPERTY.

DRAINAGE CALCULATIONS

- 1. PRECIPITATION ZONE = 2
- 2. DESIGN STORM = DEPTH (INCHES) AT 100-YEAR STORM  
6-HOUR = 2.35 INCHES  
24-HOUR = 2.75 INCHES  
10 DAY = 3.95 INCHES
- 3. PEAK DISCHARGE (CFS/ACRE) FIR 100-YEAR, ZONE 2, TABLE A-9:  
Q = 1.56 CFS/ACRE SOIL UNCOMPACTED "A"  
Q = 2.28 CFS/ACRE LANDSCAPED "B"  
Q = 3.14 CFS/AC COMPACTED SOIL "C"  
Q = 4.70 CFS/ACRE IMPERVIOUS AREA "D"  
FOR WATERSHEDS LESS THAN OR EQUAL TO 40 ACRES
- 4. EXCESS PRECIPITATION, E (INCHES), 6 HOUR STORM, ZONE 2, TABLE A-8:  
E = 0.53 INCHES SOIL UNCOMPACTED "A"  
E = 0.78 INCHES LANDSCAPED "B"  
E = 1.13 INCHES COMPACTED SOIL "C"  
E = 2.12 INCHES IMPERVIOUS AREA "D"

- 5. EXISTING CONDITIONS ONSITE:  
EXISTING TOTAL AREA OF SITE = 0.57ACRES  
EXISTING BUILDING SITE AREA = 2,260SF = 0.05ACRES  
EXISTING SIDEWALKS AND PAVING AREA = 486SF + 6,540SF = 7,026SF = 0.16ACRES  
TREATMENT "D" AREA = 0.05 + 0.16ACRES = 0.21ACRES  
REMAINING AREA IS COMPACTED BY HUMAN ACTIVITY = 0.57ACRES - 0.21 = 0.36ACRES  
TREATMENT "C" AREA = 0.36ACRES

TREATMENT	AREA(ACRES)
A	0
B	0
C	0.36
D	0.21

Q(EXISTING-6HR) = (3.14 X 0.36) + (4.70 X 0.21)  
= 2.12CFS (6HR) EXISTING ONSITE FLOW  
V(EXISTING-6HR) = ((1.13 X 0.36) + (2.12 X 0.21))/ 12  
= 0.07AC-FT = 3.093CF EXISTING ONSITE VOLUME

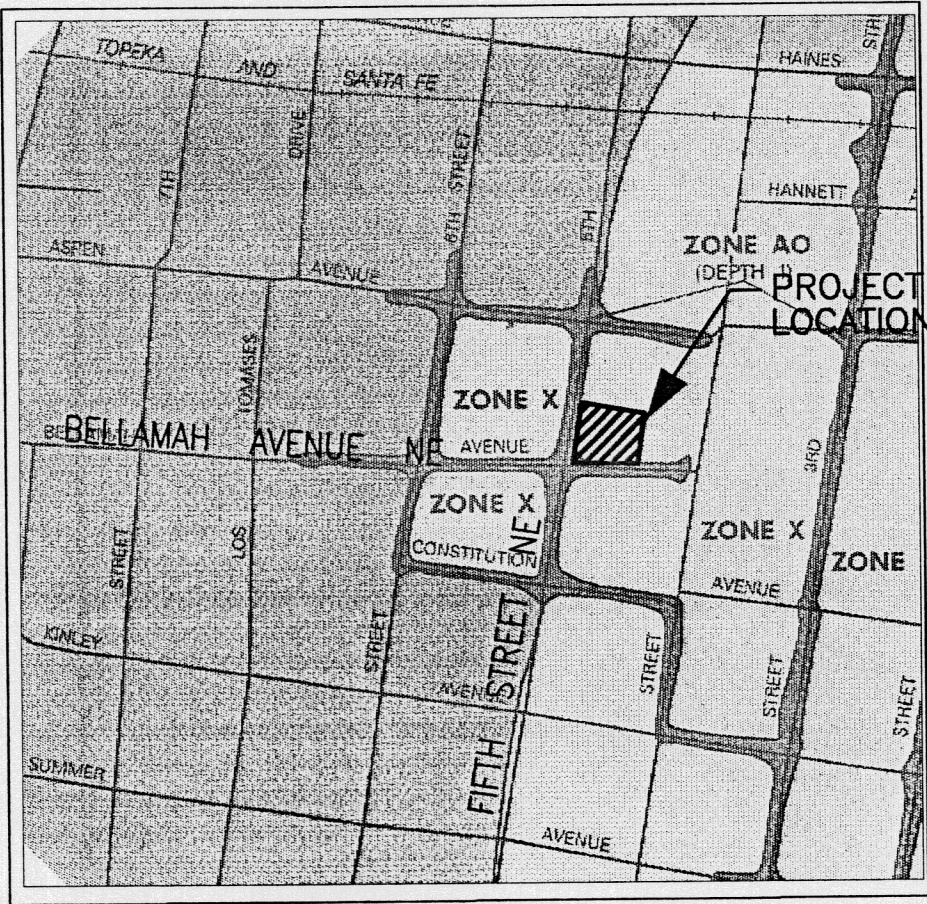
- 6. PROPOSED CONDITIONS ONSITE:  
PROPOSED TOTAL AREA OF SITE = 0.57ACRES  
PROPOSED BUILDING ROOF AREA = 4,420SF = 0.10AC  
NEW SIDEWALKS AND PARKING LOT AREA = 1,885SF - 129SF + 7,923SF + 130SF = 9,809SF = 0.23ACRES  
TOTAL IMPERVIOUS AREA PROPOSED WITH EXISTING BUILDING & SIDEWALKS = 0.10AC + 0.23AC + 0.06 = 0.39ACRES  
TREATMENT "D" AREA = 0.39ACRES  
PROPOSED LANDSCAPED AREA IS REMAINING AREA = 0.57AC -0.39AC = 018ACRES  
TREATMENT "B" AREA = 0.18ACRES

TREATMENT	AREA(ACRES)
A	0
B	0.18
C	0
D	0.39

Q(PROPOSED-6HR) = (2.28 X 0.18) + (4.70 X 0.39)  
= 2.24CFS (6HR) PROPOSED ONSITE FLOW  
V(PROPOSED-6HR) = ((0.78 X 0.18) + (2.12 X 0.39))/ 12  
= 0.08AC-FT = 3.510CF PROPOSED ONSITE VOLUME

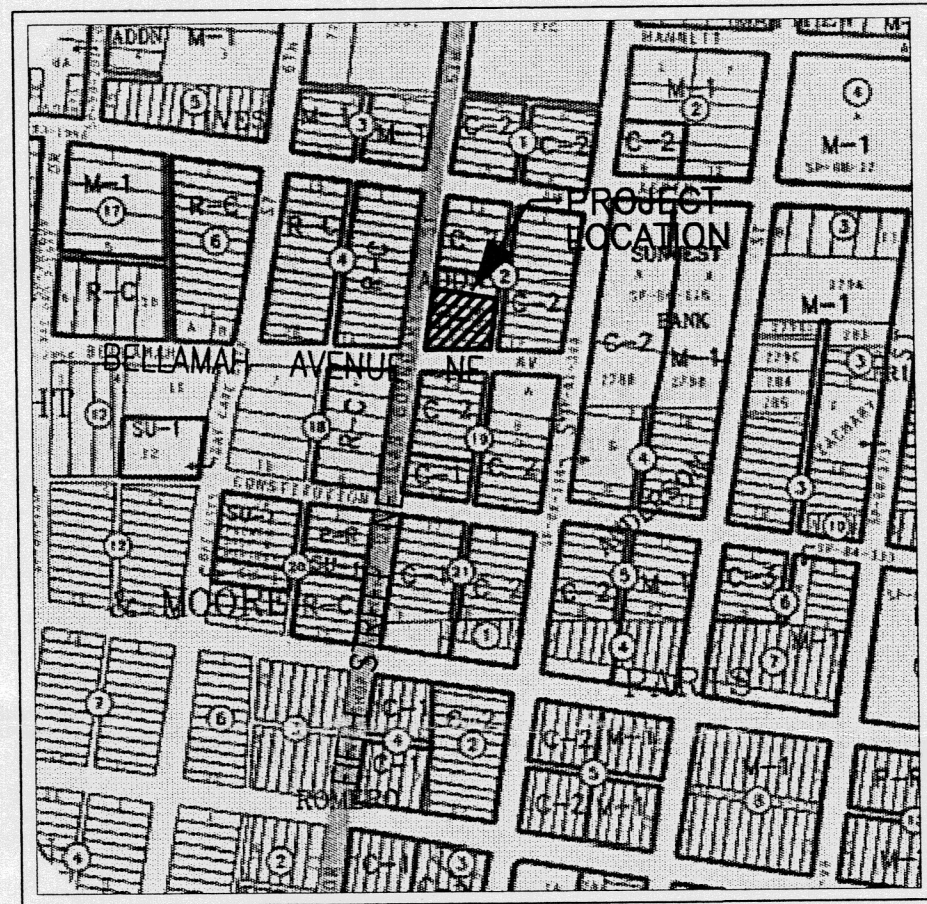
Q(INCREASE FROM THIS DEVELOPMENT) = 2.24CFS - 2.21CFS  
= 0.03CFS INCREASE NEGLIGIBLE

V(INCREASE FROM THIS DEVELOPMENT) = 3,510CF - 3,093CF  
= 417CF INCREASE NEGLIGIBLE



FIRM MAP 35001C0332D

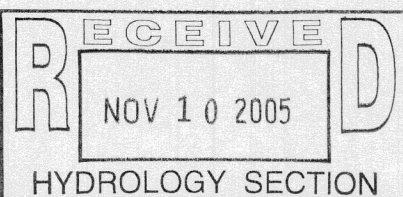
SCALE: N.T.S.



VICINITY MAP J-14

SCALE: N.T.S.

UTILITY PRECAUTIONS  
THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.



FILE:	DRAINAGE CALCULATIONS AND MAPS QUAKER BUILDING XX ALBUQUERQUE, NEW MEXICO	DATE/REVISIONS:
	Applied Engineering & Surveying, Inc. 1605 BLAIR DRIVE NE ALBUQUERQUE, NEW MEXICO 87112 PH: (505)237-1456	SHEET NUMBER: 2