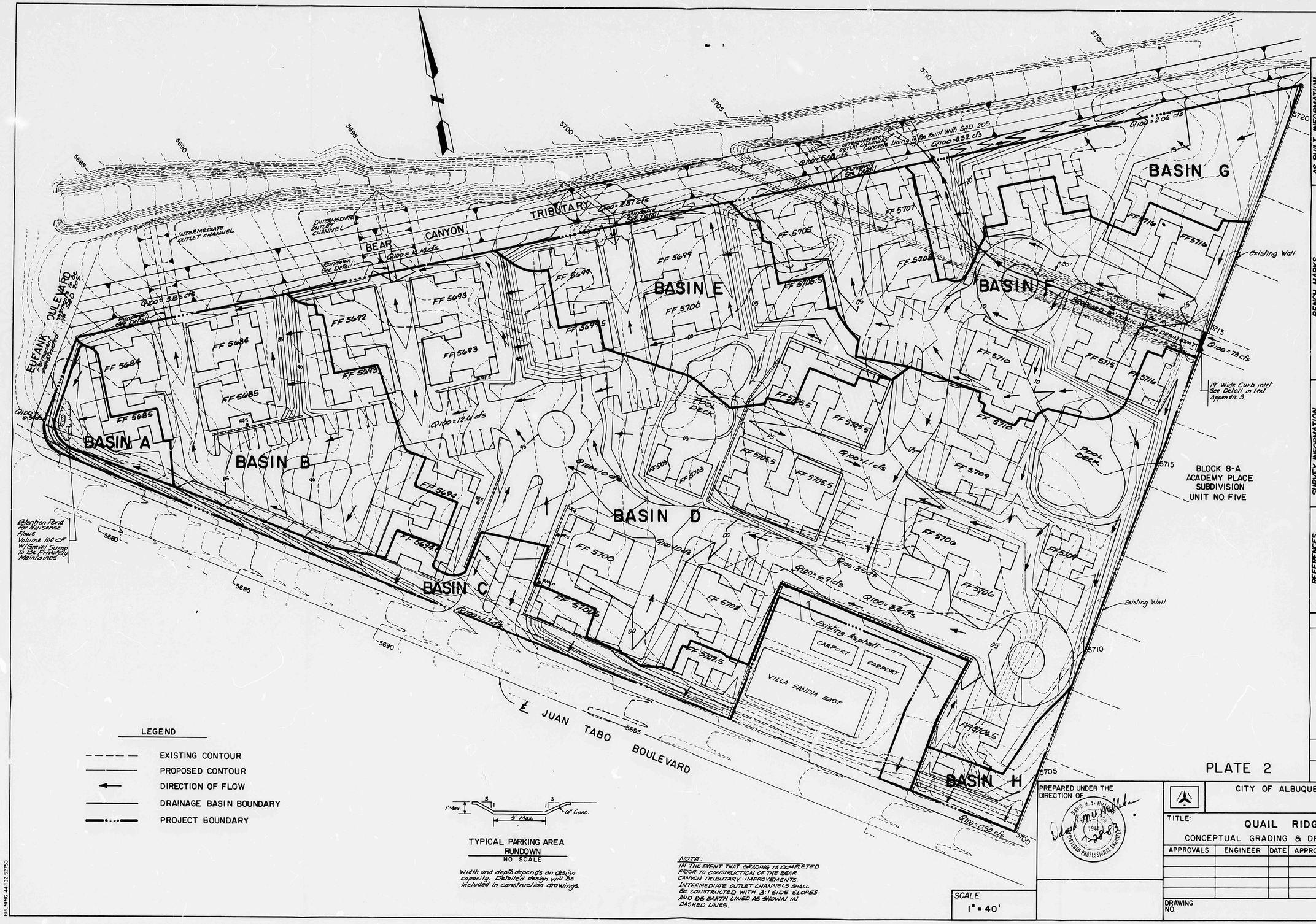
HYDROLOGY

E21/D15A
FIVE PLANS

E21/D15A

5 PLANS



AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTORS
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
THE STATION MARK IS A STANDARD A.C.S. BRASS TABLET, STAMPED "1-E21-A" SET IN THE TOP OF THE SOUTHWEST CURB OF THE INTERSECTION OF EUBANK BOULEVARD AND LAYTON AVENUE.
ELEVATION 5642.71

SURVEY INFORMATION

NO.	BY	DATE

REFERENCES
MAP NO. E-21-Z
EST. NO.
W.O. NO.

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		
	DESIGNED BY DWW		DATE 7/83
	DRAWN BY McQ		DATE 7/83
	CHECKED BY DMYM		DATE 7/83

PREPARED UNDER THE DIRECTION OF
DAVID M. Y. MILLER 7844 REGISTERED PROFESSIONAL ENGINEER 7-28-83

CITY OF ALBUQUERQUE

TITLE:
QUAIL RIDGE
CONCEPTUAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

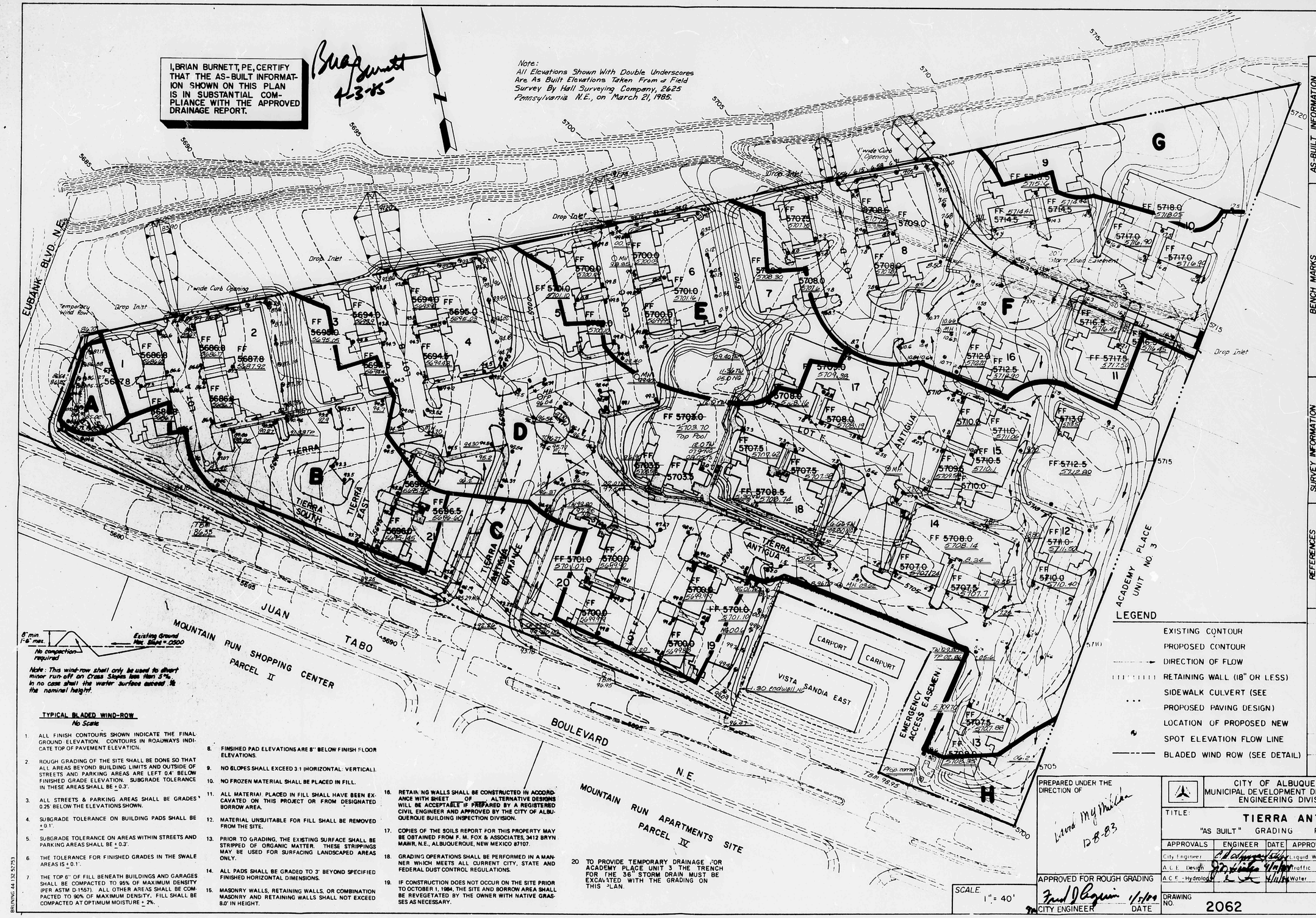
DRAWING NO.
SHEET 1 OF 1

BRUNING 44 132 52753

I, BRIAN BURNETT, PE, CERTIFY THAT THE AS-BUILT INFORMATION SHOWN ON THIS PLAN IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE REPORT.

Brian Burnett 4-3-85

Note:
All Elevations Shown With Double Underscores Are As Built Elevations Taken From a Field Survey By Hall Surveying Company, 2625 Pennsylvania N.E., on March 21, 1985.



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF FLOW
- RETAINING WALL (18" OR LESS)
- SIDEWALK CULVERT (SEE
- PROPOSED PAVING DESIGN)
- LOCATION OF PROPOSED NEW
- SPOT ELEVATION FLOW LINE
- BLADED WIND ROW (SEE DETAIL)

6" min. 1'-6" max. — Existing Ground Max. Slope = 0500 — No compaction required

Note: This wind-row shall only be used to divert minor run-off on Cross Slopes less than 5%. In no case shall the water surface exceed ½ the nominal height.

TYPICAL BLADED WIND-ROW
No Scale

1. ALL FINISH CONTOURS SHOWN INDICATE THE FINAL GROUND ELEVATION. CONTOURS IN ROADWAYS INDICATE TOP OF PAVEMENT ELEVATION.
2. ROUGH GRADING OF THE SITE SHALL BE DONE SO THAT ALL AREAS BEYOND BUILDING LIMITS AND OUTSIDE OF STREETS AND PARKING AREAS ARE LEFT 0.4' BELOW FINISHED GRADE ELEVATION. SUBGRADE TOLERANCE IN THESE AREAS SHALL BE ± 0.3'.
3. ALL STREETS & PARKING AREAS SHALL BE GRADED 0.25' BELOW THE ELEVATIONS SHOWN.
4. SUBGRADE TOLERANCE ON BUILDING PADS SHALL BE ± 0.1'.
5. SUBGRADE TOLERANCE ON AREAS WITHIN STREETS AND PARKING AREAS SHALL BE ± 0.3'.
6. THE TOLERANCE FOR FINISHED GRADES IN THE SWALE AREAS IS ± 0.1'.
7. THE TOP 6" OF FILL BENEATH BUILDINGS AND GARAGES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (PER ASTM D-1557). ALL OTHER AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY. FILL SHALL BE COMPACTED AT OPTIMUM MOISTURE ± 2%.
8. FINSIHED PAD ELEVATIONS ARE 8" BELOW FINISH FLOOR ELEVATIONS.
9. NO SLOPES SHALL EXCEED 3:1 (HORIZONTAL: VERTICAL).
10. NO FROZEN MATERIAL SHALL BE PLACED IN FILL.
11. ALL MATERIAL PLACED IN FILL SHALL HAVE BEEN EXCAVATED ON THIS PROJECT OR FROM DESIGNATED BORROW AREA.
12. MATERIAL UNSUITABLE FOR FILL SHALL BE REMOVED FROM THE SITE.
13. PRIOR TO GRADING, THE EXISTING SURFACE SHALL BE STRIPPED OF ORGANIC MATTER. THESE STRIPPINGS MAY BE USED FOR SURFACING LANDSCAPED AREAS ONLY.
14. ALL PADS SHALL BE GRADED TO 3' BEYOND SPECIFIED FINISHED HORIZONTAL DIMENSIONS.
15. MASONRY WALLS, RETAINING WALLS, OR COMBINATION MASONRY AND RETAINING WALLS SHALL NOT EXCEED 8.0' IN HEIGHT.
16. RETAINING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SHEET OF ALTERNATIVE DESIGNS WILL BE ACCEPTABLE IF PREPARED BY A REGISTERED CIVIL ENGINEER AND APPROVED BY THE CITY OF ALBUQUERQUE BUILDING INSPECTION DIVISION.
17. COPIES OF THE SOILS REPORT FOR THIS PROPERTY MAY BE OBTAINED FROM F. M. FOX & ASSOCIATES, 3412 BRYN MAWR, N.E., ALBUQUERQUE, NEW MEXICO 87107.
18. GRADING OPERATIONS SHALL BE PERFORMED IN A MANNER WHICH MEETS ALL CURRENT CITY, STATE AND FEDERAL DUST CONTROL REGULATIONS.
19. IF CONSTRUCTION DOES NOT OCCUR ON THE SITE PRIOR TO OCTOBER 1, 1984, THE SITE AND BORROW AREA SHALL BE REVEGETATED BY THE OWNER WITH NATIVE GRASSES AS NECESSARY.
20. TO PROVIDE TEMPORARY DRAINAGE FOR ACADEMY PLACE UNIT 3 THE TRENCH FOR THE 36" STORM DRAIN MUST BE EXCAVATED WITH THE GRADING ON THIS PLAN.

SURVEY INFORMATION

NO	BY	DATE

REFERENCES
MAP NO. E-2
EST. NO. W.O. NO.

BENCH MARKS
STATION #5 A STANDARD A.C.S. BRASS TABLET STAMPED 1-E21-A", SET IN TOP OF THE WEST CURB ON EUBANK BLVD. STATION IS LOCATED APPROXIMATELY 380' NORTHEAST OF THE CENTERLINE OF MALAGUENA LANE.
ELEV.= 5642.71

AS-BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTIONS MADE BY		
FIELD VERIFICATION BY		DATE
DRAWINGS COMPILED BY		DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY KBA	DATE 12-83
		DRAWN BY MCQ	DATE 12-33
		CHECKED BY DWM DMYM	DATE 12-83

PREPARED UNDER THE DIRECTION OF
Land My Miller 12-8-83

APPROVED FOR ROUGH GRADING
Fred J. Aguirre 1/5/84
CITY ENGINEER DATE

SCALE 1" = 40'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

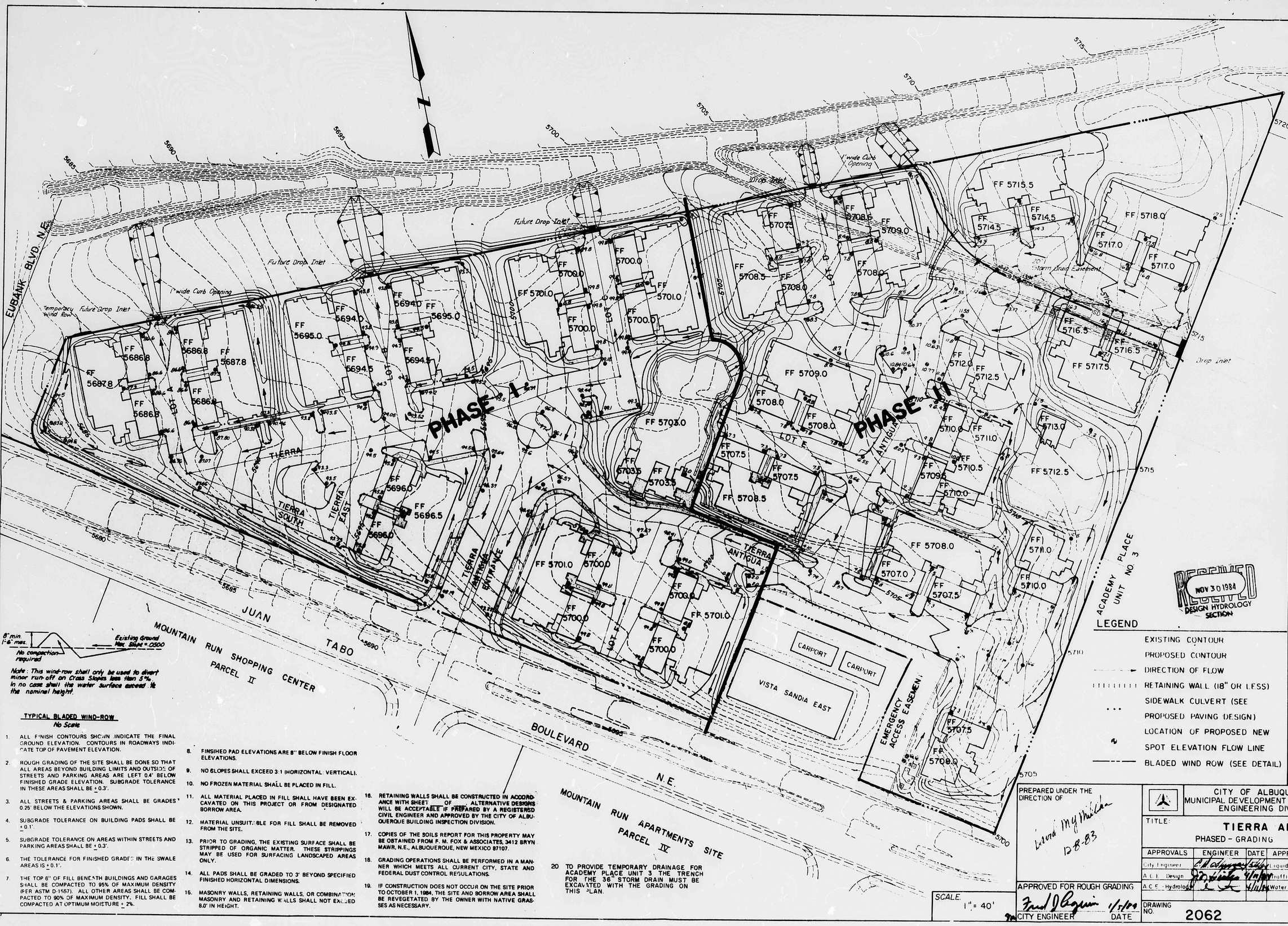
TITLE:
TIERRA ANTIGUA
"AS BUILT" GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design		4/11/84	Traffic		3/14/84
A.C.E. - Hydrology		4/11/84	Water		

DRAWING NO. 2062
SHEET 7 OF 19

BRUNING 44 132 50753

RECEIVED
APR 04 1985
HYDROLOGY SECTION



8" min. / 6" max.

Existing Ground Max. Slope = 05:00

No compaction required

Note: This wind-row shall only be used to divert minor run-off on Cross Slopes less than 5%. In no case shall the water surface exceed ½ the nominal height.

TYPICAL BLADED WIND-ROW
No Scale

1. ALL FINISH CONTOURS SHOWN INDICATE THE FINAL GROUND ELEVATION. CONTOURS IN ROADWAYS INDICATE TOP OF PAVEMENT ELEVATION.
2. ROUGH GRADING OF THE SITE SHALL BE DONE SO THAT ALL AREAS BEYOND BUILDING LIMITS AND OUTSIDE OF STREETS AND PARKING AREAS ARE LEFT 0.4' BELOW FINISHED GRADE ELEVATION. SUBGRADE TOLERANCE IN THESE AREAS SHALL BE ± 0.3'.
3. ALL STREETS & PARKING AREAS SHALL BE GRADED 0.25' BELOW THE ELEVATIONS SHOWN.
4. SUBGRADE TOLERANCE ON BUILDING PADS SHALL BE ± 0.1'.
5. SUBGRADE TOLERANCE ON AREAS WITHIN STREETS AND PARKING AREAS SHALL BE ± 0.3'.
6. THE TOLERANCE FOR FINISHED GRADES IN THE SWALE AREAS IS ± 0.1'.
7. THE TOP 6" OF FILL BENEATH BUILDINGS AND GARAGES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (PER ASTM D-1557). ALL OTHER AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY. FILL SHALL BE COMPACTED AT OPTIMUM MOISTURE ± 2%.
8. FINISHED PAD ELEVATIONS ARE 8" BELOW FINISH FLOOR ELEVATIONS.
9. NO SLOPES SHALL EXCEED 3:1 (HORIZONTAL: VERTICAL).
10. NO FROZEN MATERIAL SHALL BE PLACED IN FILL.
11. ALL MATERIAL PLACED IN FILL SHALL HAVE BEEN EXCAVATED ON THIS PROJECT OR FROM DESIGNATED BORROW AREA.
12. MATERIAL UNSUITABLE FOR FILL SHALL BE REMOVED FROM THE SITE.
13. PRIOR TO GRADING, THE EXISTING SURFACE SHALL BE STRIPPED OF ORGANIC MATTER. THESE STRIPPINGS MAY BE USED FOR SURFACING LANDSCAPED AREAS ONLY.
14. ALL PADS SHALL BE GRADED TO 3' BEYOND SPECIFIED FINISHED HORIZONTAL DIMENSIONS.
15. MASONRY WALLS, RETAINING WALLS, OR COMBINATION MASONRY AND RETAINING WALLS SHALL NOT EXCEED 8.0' IN HEIGHT.
16. RETAINING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SHEET ___ OF ___. ALTERNATIVE DESIGNS WILL BE ACCEPTABLE IF PREPARED BY A REGISTERED CIVIL ENGINEER AND APPROVED BY THE CITY OF ALBUQUERQUE BUILDING INSPECTION DIVISION.
17. COPIES OF THE SOILS REPORT FOR THIS PROPERTY MAY BE OBTAINED FROM F. M. FOX & ASSOCIATES, 3412 BRYN MAWR, N.E., ALBUQUERQUE, NEW MEXICO 87107.
18. GRADING OPERATIONS SHALL BE PERFORMED IN A MANNER WHICH MEETS ALL CURRENT CITY, STATE AND FEDERAL DUST CONTROL REGULATIONS.
19. IF CONSTRUCTION DOES NOT OCCUR ON THE SITE PRIOR TO OCTOBER 1, 1984, THE SITE AND BORROW AREA SHALL BE REVEGETATED BY THE OWNER WITH NATIVE GRASSES AS NECESSARY.
20. TO PROVIDE TEMPORARY DRAINAGE FOR ACADEMY PLACE UNIT 3 THE TRENCH FOR THE 36" STORM DRAIN MUST BE EXCAVATED WITH THE GRADING ON THIS PLAN.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF FLOW
- RETAINING WALL (18" OR LESS)
- SIDEWALK CULVERT (SEE PROPOSED PAVING DESIGN)
- LOCATION OF PROPOSED NEW SPOT ELEVATION FLOW LINE
- BLADED WIND ROW (SEE DETAIL)

RECEIVED
NOV 30 1984
DESIGN HYDROLOGY SECTION

SCALE: 1" = 40'

PREPARED UNDER THE DIRECTION OF
Lloyd M. Miller 12-8-83

APPROVED FOR ROUGH GRADING
Fred J. Aguirre 1/5/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:
TIERRA ANTIGUA
PHASED - GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N.A.	
A.C.E. Design			Traffic	N.A. D+H	3-4-84
A.C.E. Hydrology			Water	N.A.	

DRAWING NO. 2062

SHEET 7 OF 19

DESIGNED BY RBA DATE 12-83
DRAWN BY MCG DATE 12-83
CHECKED BY DMW-DMYM DATE 12-83

REMARKS / REVISIONS / DESIGN

NO	DATE	BY

SURVEY INFORMATION

REFERENCES	NO	BY	DATE
MAP NO E-2			
WO NO			
EST NO			

BENCH MARKS

STATION IS A STANDARD A.C.S. BRASS TABLET STAMPED "1-E21-A", SET IN TOP OF THE WEST CURB ON EUBANK BLVD. STATION IS LOCATED APPROXIMATELY 380' NORTHEAST OF THE CENTERLINE OF MALAGUENA LANE.
ELEV. = 5642.71

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
ACCEPTANCE INSPECTIONS BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

⚠ INSTALL RIP-RAP AS SHOWN. USE D50=15" W/PIT RUN GRAVEL FILTER SIZE "B". EXTEND RIP-RAP UP CHANNEL SIDES 4.0'

⚠ ALTERNATE: IN RIP RAP SECTIONS, INSTALL 2' D50 BY 8" THICK CUT-OFF WALLS AT UPSTREAM AND DOWNSTREAM ENDS OF CHANNEL SIDES ST.

Temporary "U" Channels (See Detail Sheet)

Temporary "U" Channels (See Detail Sheet)

Sta. 0+00.00 Build 1-Catch Basin Type "C" Single Invert Rim

Sta. 0+00.00 Build 1-Catch Basin Type "C" Single Invert Rim

Sta. 0+00.00 Build 1-Catch Basin Type "C" Single Invert Rim

Sta. 0+00.00 Build 1-Catch Basin Type "C" Single Invert Rim

Start Temporary Trapezoidal Channel (See Detail Sheet)

EUBANK BOULEVARD N.E.

JUAN TABO BOULEVARD N.E.

MOUNTAIN RUN SHOPPING CENTER PARCEL II

MOUNTAIN RUN APARTMENTS SITE PARCEL IV

ACADEMY PLACE UNIT NO. 3

5680 5685 5690 5695 5700 5705 5710 5715 5720

SD

SCALE 1" = 40'

RECEIVED
AUG 01 1984
HYDROLOGY SECTION

PREPARED UNDER THE DIRECTION OF

STATE OF NEW MEXICO
DANIEL M. EMERY
No. 5194
REGISTERED PROFESSIONAL ENGINEER
7-31-84

APPROVED FOR ROUGH GRADING

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:

TIERRA ANTIGUA
INTERIM STORM DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 2062

SHEET OF

BENCH MARKS

STATION IS A STANDARD A.C.S. BRASS TABLET STAMPED "1-E21-A", SET IN TOP OF THE WEST CURB ON EUBANK BLVD. STATION IS LOCATED APPROXIMATELY 380' NORTHEAST OF THE CENTERLINE OF MALAGUENA LANE.
ELEV.= 5642.71

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTIONS — DATE
FIELD CONSTRUCTION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

REFERENCES

MAP NO. E-21
EST NO
WO NO

SURVEY INFORMATION

NO. BY

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KBA DATE 1/84
DRAWN BY McQ DATE 1/84
CHECKED BY DMW-DMYM DATE 1/84

BRUNING 44 112 N.M.

RECEIVED
JAN 10 1984
ENGINEERING

EUBANK BLVD. N.E.

JUAN TABO BOULEVARD N.E.

MOUNTAIN RUN SHOPPING CENTER PARCEL II

MOUNTAIN RUN APARTMENTS SITE PARCEL IV

ACADEMY PLACE UNIT NO. 3

VISTA SANDIA EAST

CARPORT

CARPORT

Future Drop Inlet

Future Drop Inlet

Future Drop Inlet

Future Drop Inlet

1' wide Curb Opening

1' wide Curb Opening

Temporary Wind Row

20' Storm Drain Easement

FF 5687.8

FF 5686.8

FF 5686.8

FF 5687.8

FF 5694.0

FF 5695.0

FF 5695.0

FF 5694.0

FF 5694.5

FF 5694.5

FF 5696.0

FF 5696.5

FF 5696.0

FF 5700.0

FF 5709.0

FF 5701.0

FF 5700.0

FF 5701.0

FF 5700.0

FF 5700.0

FF 5701.0

FF 5703.5

FF 5703.5

FF 5703.0

FF 5708.5

FF 5708.5

FF 5707.5

FF 5707.5

FF 5708.0

FF 5708.0

FF 5708.0

FF 5708.0

FF 5709.0

FF 5709.0

FF 5710.5

FF 5710.0

FF 5710.0

FF 5711.0

FF 5711.0

FF 5712.0

FF 5712.5

FF 5712.5

FF 5713.0

FF 5714.5

FF 5714.5

FF 5715.5

FF 5716.5

FF 5716.5

FF 5717.5

FF 5717.0

FF 5717.0

FF 5718.0

FF 5707.5

FF 5707.5

FF 5708.0

FF 5707.0

FF 5707.5

FF 5707.5

FF 5708.0

5680

5685

5690

5695

5700

5705

5710

5715

5720

8" min.
1'-6" max.

Existing Ground
Max. Slope = 0.500

No compaction required

Note: This wind-row shall only be used to divert minor run-off on Cross Slopes less than 5%. In no case shall the water surface exceed ½ the nominal height.

TYPICAL BLADED WIND-ROW
No Scale

1. ALL FINISH CONTOURS SHOWN INDICATE THE FINAL GROUND ELEVATION. CONTOURS IN ROADWAYS INDICATE TOP OF PAVEMENT ELEVATION.
2. ROUGH GRADING OF THE SITE SHALL BE DONE SO THAT ALL AREAS BEYOND BUILDING LIMITS AND OUTSIDE OF STREETS AND PARKING AREAS ARE LEFT 0.4' BELOW FINISHED GRADE ELEVATION. SUBGRADE TOLERANCE IN THESE AREAS SHALL BE ±0.3'.
3. ALL STREETS & PARKING AREAS SHALL BE GRADES 0.25' BELOW THE ELEVATIONS SHOWN.
4. SUBGRADE TOLERANCE ON BUILDING PADS SHALL BE ±0.1'.
5. SUBGRADE TOLERANCE ON AREAS WITHIN STREETS AND PARKING AREAS SHALL BE ±0.3'.
6. THE TOLERANCE FOR FINISHED GRADES IN THE SWALE AREAS IS ±0.1'.
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9. NO SLOPES SHALL EXCEED 3:1 (HORIZONTAL: VERTICAL).
10. NO FROZEN MATERIAL SHALL BE PLACED IN FILL.
11. ALL MATERIAL PLACED IN FILL SHALL HAVE BEEN EXCAVATED ON THIS PROJECT OR FROM DESIGNATED BORROW AREA.
12. MATERIAL UNSUITABLE FOR FILL SHALL BE REMOVED FROM THE SITE.
13. PRIOR TO GRADING, THE EXISTING SURFACE SHALL BE STRIPPED OF ORGANIC MATTER. THESE STRIPPINGS MAY BE USED FOR SURFACING LANDSCAPED AREAS ONLY.
14. ALL PADS SHALL BE GRADED TO 3' BEYOND SPECIFIED FINISHED HORIZONTAL DIMENSIONS.
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19. IF CONSTRUCTION DOES NOT OCCUR ON THE SITE PRIOR TO OCTOBER 1, 1984, THE SITE AND BORROW AREA SHALL BE REVEGETATED BY THE OWNER WITH NATIVE GRASSES AS NECESSARY.
20. TO PROVIDE TEMPORARY DRAINAGE FOR ACADEMY PLACE UNIT 3 THE TRENCH FOR THE 36" STORM DRAIN MUST BE EXCAVATED WITH THE GRADING ON THIS PLAN.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF FLOW
- RETAINING WALL (18" OR LESS)
- SIDEWALK CULVERT (SEE PROPOSED PAVING DESIGN)
- LOCATION OF PROPOSED NEW SPOT ELEVATION
- BLADED WIND ROW (SEE DETAIL)

BENCH MARKS

STATION IS A STANDARD A.C.S. BRASS TABLET STAMPED "1-E21-A", SET IN TOP OF THE WEST CURB ON EUBANK BLVD. STATION IS LOCATED APPROXIMATELY 380' NORTHEAST OF THE CENTERLINE OF MALAGUENA LANE.
ELEV.= 5642.71

AS-BUILT INFORMATION

CONTRACTOR
WORK INSPECTED BY ♦ DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

SURVEY INFORMATION

NO.	BY	DATE

REFERENCES

MAP NO. E - 21
W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KBA DATE 12-83
DRAWN BY McQ DATE 12-83
CHECKED BY DMW-DMYM DATE 12-83

PREPARED UNDER THE DIRECTION OF

David M. Mathews 12-8-83

APPROVED FOR ROUGH GRADING

Fred J. Aguirre 1/10/84
CITY ENGINEER DATE

SCALE: 1" = 40'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:

TIERRA ANTIGUA
GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO.

SHEET OF

BRUNING 44-132-52753

1/10/84