

VICINITY MAP
ZONE ATLAS # 6-15-2

CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
- 2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 3.) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKS, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

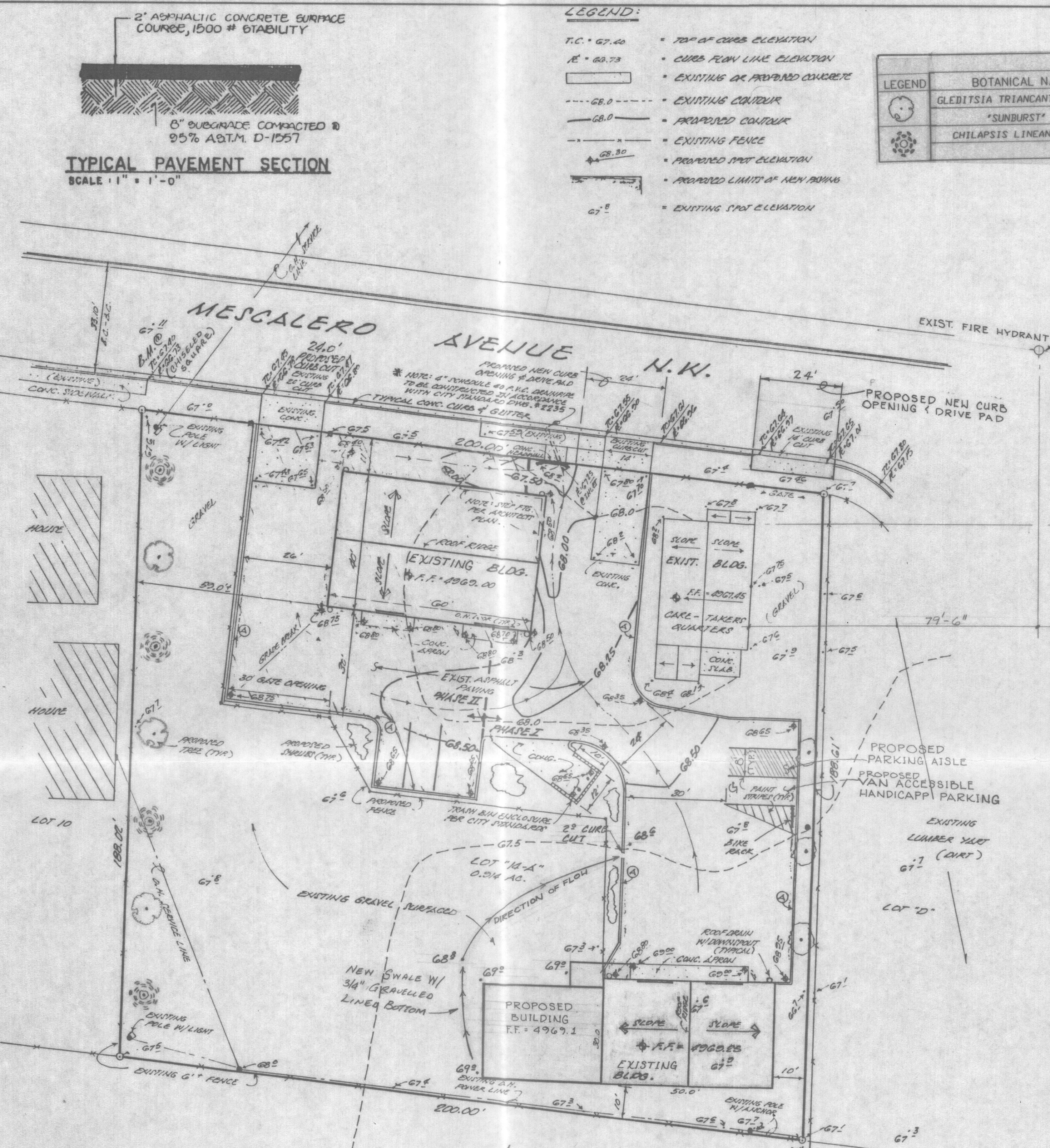
STAKING NOTE:

INFORMATION SHOWN IS FOR GRADING AND DRAINAGE ONLY AND IS NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

UTILITY NOTE:

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND LINES ARE SHOWN ON THE DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

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NOTES TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION OF THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION - PUBLIC WORKS CONSTRUCTION - 1985.
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- 5.) BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
- 6.) MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

TOPOGRAPHY NOTE:

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED BY OTHERS. RED MOUNTAIN ENGINEERS, INC. HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OF LIABILITY THEREFOR.

HEADER CURB DETAIL

SCALE: 1" = 1'-0"

PARKING REQUIREMENTS

Proposed Building Square Footage	= 980 sq. ft.
Required Parking spaces	= 1 Space/2000 ft ²
Proposed Development	= 1 Space
Existing Development	= 2 Spaces
Total Required	= 3 Spaces
Provided Parking Spaces	= 0 Spaces
Proposed Development	= 5 Spaces
Existing Development	= 5 Spaces
Total Provided	= 5 Spaces

TREE PLANTING LIST

LEGEND	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED	MATURE	REMARKS
☉	GLEDISIA TRIANCANTHOS ILMERIS	SUNBURST HONEY LOCUST	3	24" BOX	35' HT., 35' SPD	1 1/2" CAL., 10" - 12" HT.
☉	"SUNBURST"					3' MIN. SPD.
☉	CHILAPIS LINEARIS	DESERT WILLOW	3	24" BOX	20' HT., 20' SPD	1 1/2" CAL., 10" - 12" HT.
						3' MIN. SPD.

DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON MESCALERO ROAD N.W. BETWEEN SECOND STREET N.W. AND THE A.T. & S.F. RAILROAD, IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE PROJECT SITE, (1.) DOES LIE ADJACENT TO AN AO-1 FLOODPLAIN THAT IS WITHIN MESCALERO ROAD N.W., (FLOOD ZONE "C"), (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY, (4.) DOES NOT ACCEPT OR CONTRIBUTE OFF-SITE FLOWS OF ADJACENT PROPERTIES.

BECAUSE OF DOWNSTREAM FLOODING CONDITIONS, ON-SITE PONDING WITHIN THE PAVED PARKING AREA WITH CONTROLLED RELEASE IS REQUIRED VIA A 4" P.V.C. DRAINPIPE INTO MESCALERO ROAD N.W.



Red Mountain Engineers, Inc.
P.O. BOX 16115
SANTA FE, NM 87506-6115
(505) 473-7373
FAX (505) 473-4863

City of Albuquerque Stormwater Runoff Calculations For Small Watersheds (< 40 Acres)

Padilla Self Storage Units Mescalero Road NW Lot "14-A", Campbell's Addition No. One (1)	
Abuquerque Precipitation Zone	2
100 Yr. Design Storm Intensity	2.35 in./hr.
Total Lot Area	37700 Sq. Ft. 0.865 Acres

PRE-DEVELOPMENT CONDITIONS

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	21199	0.486	2.27	3.45
D	16501	0.379	2.57	5.16
Total Area	37700	0.865		

Peak Discharge Calculation: $Q_p = (Q_{pa})(A_a) + (Q_{pb})(A_b) + (Q_{pc})(A_c) + (Q_{pd})(A_d)$

$Q_p = 3.83 \text{ cfs}$

Volume of Runoff Calculation: $V = [(E_a)(A_a) + (E_b)(A_b) + (E_c)(A_c) + (E_d)(A_d)]^{1/2}$

$V = 2.080 \text{ acre-ft} = 90.605 \text{ ft}^3$

POST-DEVELOPMENT CONDITIONS

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	20115	0.462	2.27	3.45
D	17585	0.403	2.57	5.16
Total Area	37700	0.865		

Peak Discharge Calculation: $Q_p = (Q_{pa})(A_a) + (Q_{pb})(A_b) + (Q_{pc})(A_c) + (Q_{pd})(A_d)$

$Q_p = 3.87 \text{ cfs}$

$V = [(E_a)(A_a) + (E_b)(A_b) + (E_c)(A_c) + (E_d)(A_d)]^{1/2}$

$V = 2.084 \text{ acre-ft} = 90.779 \text{ ft}^3$

RUNOFF VOLUME DIFFERENCE

$V = 0.004 \text{ acre-ft} = 174 \text{ ft}^3$

LEGAL DESCRIPTION: LOT "14-A", CAMPBELL'S ADDITION NO. ONE (1), ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE: NM 47-10 (NMSHC/ACS, M.S.L.D. ELEVATION = 4967.496; PROJECT BENCH MARK AS SHOWN ON PLAN HEREON.

RECEIVED
JUN 19 1995
HYDROLOGY

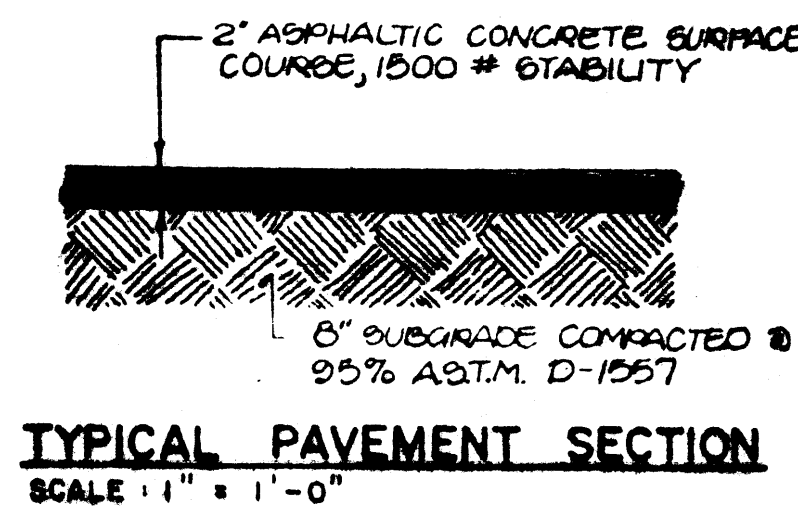
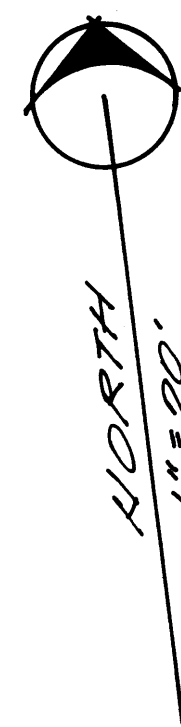
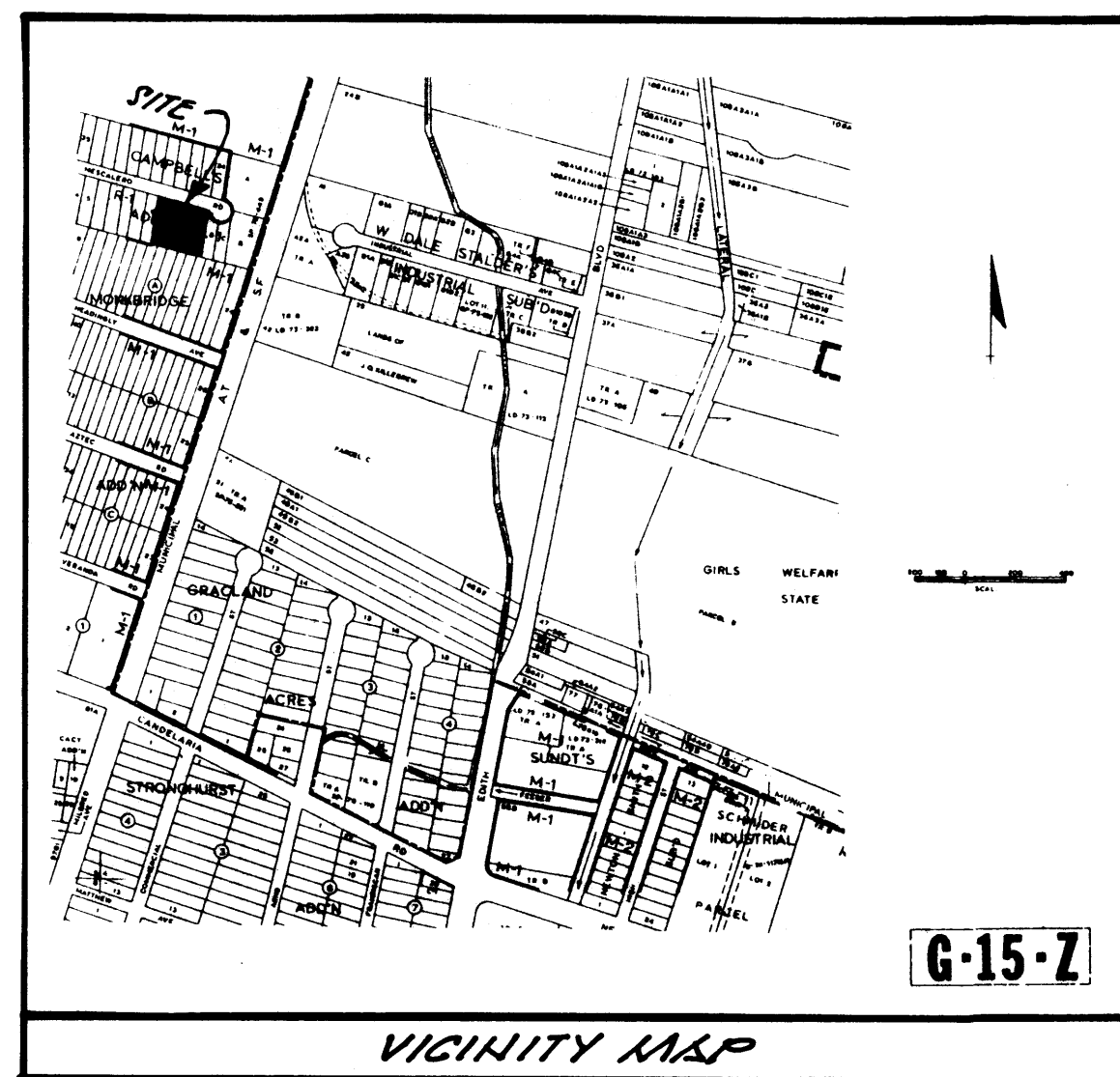
124 Mescalero
OK for final co.

Red Mountain Engineers, Inc.
Engineers • Surveyors • Planners
1216 PARKWAY DRIVE, SUITE A
P.O. BOX 16115, SANTA FE, NM 87506-6115
PHONE: (505) 473-7373

PROJECT: **SITE PLAN PADILLA STORAGE**

JOB No. 94274
DATE: DEC 1994
SCALE: 1" = 20'

SHEET No. **1**



LEGEND:

- T.C. = 67.40 = TOP OF CURB ELEVATION
- R. = 68.73 = CURB FINISH ELEVATION
- = EXISTING OR PROPOSED CONCRETE
- = EXISTING CONTOUR
- = PROPOSED CONTOUR
- = EXISTING FENCE
- = PROPOSED FENCE ELEVATION
- = PROPOSED LIMIT OF NEW PAVING
- 67.8 = EXISTING SPOT ELEVATION

DRAINAGE COMMENTS:

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DRAINAGE CALCULATIONS:

SITE AREA = 39,815.0 SQ. FT. (0.914 ACRE)

RAINFALL, R_6 (100 YR., 6 HR.) = 2.2 INCHES

TIME OF CONCENTRATION = T_c = TEN (10) MINUTES FOR A SITE THIS SIZE

RAINFALL INTENSITY, "I" = $2.2 \times 6.84 \times (10)^{-0.51} = 4.65$ IN./HR.

EXISTING DEVELOPED SITE:

ROOF/CONC. AREA = 1,750.0 SQ. FT.

GRAVELED AREA = 38,064.0 SQ. FT.

$$C_{c/c} = \frac{1750.0 \times 0.90}{39,815.0} = 0.04$$

$$C_g = \frac{38,064.0 \times 0.60}{39,815.0} = 0.57$$

$$Q_{100} = 0.61 \times 4.65 \times 0.914 = 2.59 \text{ cfs}$$

$$V_{100} = 0.61 \times 2.2/12 \times 39,815.0 = 4,452.6 \text{ CU. FT.}$$

PROPOSED DEVELOPED SITE:

ROOF AREA = 5,000.0 SQ. FT.

LANDSCAPED AREA = 1,710.0 SQ. FT.

PAVED/CONC. AREA = 11,370.0 SQ. FT.

GRAVELED AREA = 21,735.0 SQ. FT.

$$C_c = \frac{5000.0 \times 0.90}{39,815.0} = 0.11$$

$$C_L = \frac{1710.0 \times 0.25}{39,815.0} = 0.01$$

$$C_p = \frac{11,370.0 \times 0.95}{39,815.0} = 0.27$$

$$C_g = \frac{21,735.0 \times 0.60}{39,815.0} = 0.33$$

$$Q_{100} = 0.72 \times 4.65 \times 0.914 = 3.06 \text{ cfs}$$

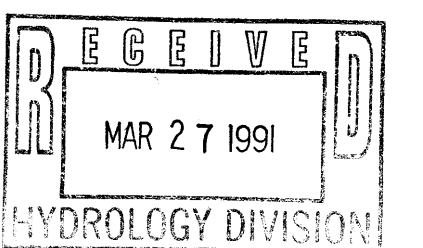
$$V_{100} = 0.72 \times 2.2/12 \times 39,815.0 = 5,255.0 \text{ CU. FT.}$$

HYDROLOGY APPROVAL & INSPECTION

APPROVED FOR: 3/28/91
 INSPECTION REQUESTED BY: 3/28/91
 APPROVAL DATE: 3/28/91
 5019 APPROVAL DATE: 3/28/91
 SURVEY DATE: 3/28/91
 HYDROLOGY BOOK NO./PAGE NO.: 3/28/91
 SURVEYED BY: 3/28/91
 COMMENTS: 3/28/91

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GRADING AND DRAINAGE PLAN
 FOR PROPOSED IMPROVEMENTS AT
 122 MESCALERO ROAD N.W.
 (MIKE SAUCER)
 ALBUQUERQUE, NEW MEXICO
 MARCH, 1991

CONSTRUCTION NOTES:

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- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.
- 4.) TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

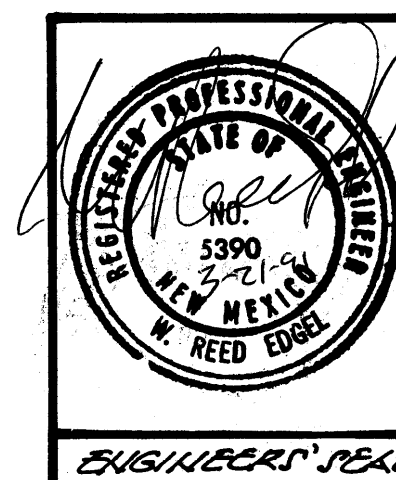
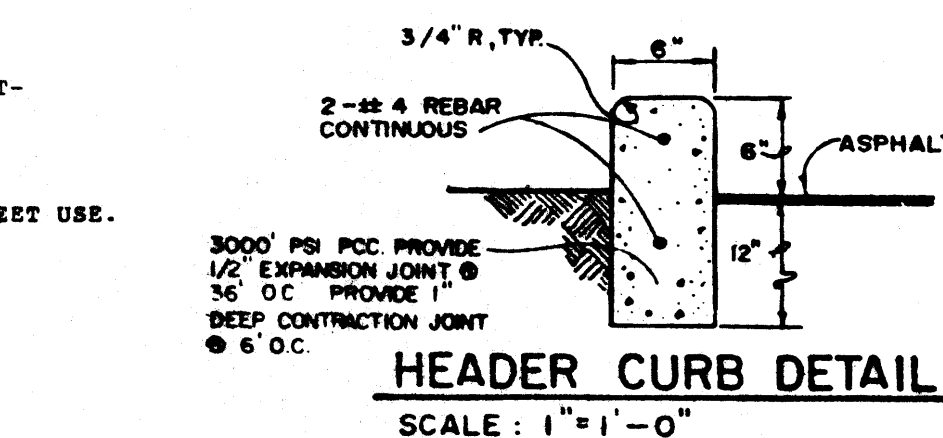
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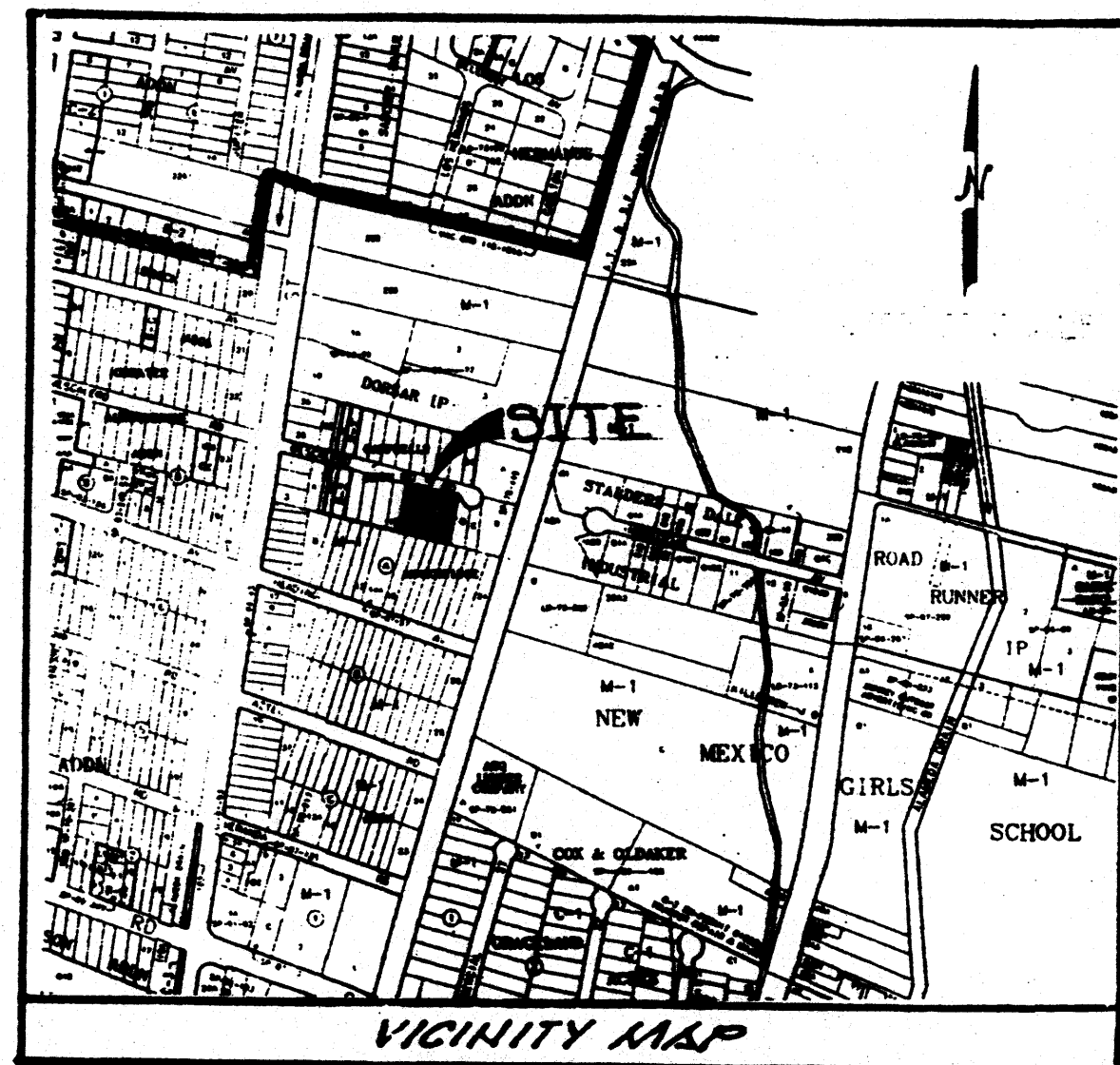
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- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREBON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.
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APPROVALS	NAME	DATE
HYDROLOGIST/DESIGN	Boonyi Mody	3/28/91
INSPECTOR		
HYDROLOGIST/FIELD		





VICINITY MAP
G-15
FEB 1 1995

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2" ASPHALTIC CONCRETE SURFACE COURSE, 1500 # STABILITY

8" SUBGRADE COMPACTED @ 95% A.S.T.M. D-1557

TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"

LEGEND:

- T.C. = 67.40 = TOP OF CURB ELEVATION
- E = 60.75 = CURB FINISH LINE ELEVATION
- 68.0 --- = EXISTING OR PROPOSED CONCRETE
- 68.0 --- = EXISTING CONTOUR
- 68.0 --- = PROPOSED CONTOUR
- 68.0 --- = EXISTING FENCE
- 68.0 --- = PROPOSED SPOT ELEVATION
- 68.0 --- = PROPOSED LIMIT OF NEW WORK
- 67.5 = EXISTING SPOT ELEVATION

TREE PLANTING LIST

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P.O. BOX 1815
SANTA FE, NM 87506-0115
(505) 473-7373
FAX (505) 473-4865

City of Albuquerque Stormwater Runoff Calculations For Small Watersheds (< 40 Acres)

Padilla Self Storage Units Mescalero Road NW Lot "14-A", Campbell's Addition No. One (1)	
Abuquerque Precipitation Zone	2
100 Yr. Design Storm Intensity	2.35 in./hr.
Total Lot Area	37700 Sq. Ft. 0.865 Acres

PRE-DEVELOPMENT CONDITIONS

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	21159	0.488	2.27	3.45
D	16541	0.378	2.57	5.16
Total Area	37700	0.865		

Peak Discharge Calculation: $Q_p = (Q_{pA})(A_A) + (Q_{pB})(A_B) + (Q_{pC})(A_C) + (Q_{pD})(A_D)$

$Q_p = 3.83 \text{ cfs}$

Volume of Runoff Calculation: $V = [(E_A)(A_A) + (E_B)(A_B) + (E_C)(A_C) + (E_D)(A_D)](1/2)$

$V = 2.080 \text{ acre-ft. } 90,805 \text{ ft}^3$

POST-DEVELOPMENT CONDITIONS

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	20115	0.452	2.27	3.45
D	17585	0.403	2.57	5.16
Total Area	37700	0.865		

Peak Discharge Calculation: $Q_p = (Q_{pA})(A_A) + (Q_{pB})(A_B) + (Q_{pC})(A_C) + (Q_{pD})(A_D)$

$Q_p = 3.67 \text{ cfs}$

$V = [(E_A)(A_A) + (E_B)(A_B) + (E_C)(A_C) + (E_D)(A_D)](1/2)$

$V = 2.064 \text{ acre-ft. } 90,779 \text{ ft}^3$

RUNOFF VOLUME DIFFERENCE

$V = 0.004 \text{ acre-ft. } 174 \text{ ft}^3$

LEGAL DESCRIPTION: LOT "14-A", CAMPBELL'S ADDITION NO. ONE (1), ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE: NM 47-10 (NMSHC/ACS, M.S.L.D. ELEVATION = 4967.496; PROJECT BENCH MARK AS SHOWN ON PLAN HEREON.

PARKING REQUIREMENTS

Proposed Building Square Footage	= 980 sq. ft.
Required Parking spaces	= 1 Space/2000 ft ²
Proposed Development	= 1 Space
Existing Development	= 2 Spaces
Total Required	= 3 Spaces
Provided Parking Spaces	= 0 Spaces
Proposed Development	= 5 Spaces
Existing Development	= 5 Spaces
Total Provided	= 5 Spaces

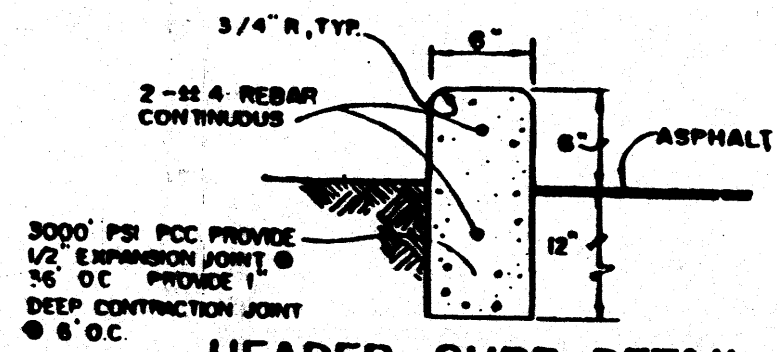
NOTES TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THIS PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION OF THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION - PUBLIC WORKS CONSTRUCTION - 1985.
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (765-1234) FOR LOCATION OF EXISTING UTILITIES.
- 4.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5.) BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
- 6.) MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

TOPOGRAPHY NOTE:

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED BY OTHERS. RED MOUNTAIN ENGINEERS, INC. HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OF LIABILITY THEREFOR.

GRAVELLED + CURB AREA



HEADER CURB DETAIL

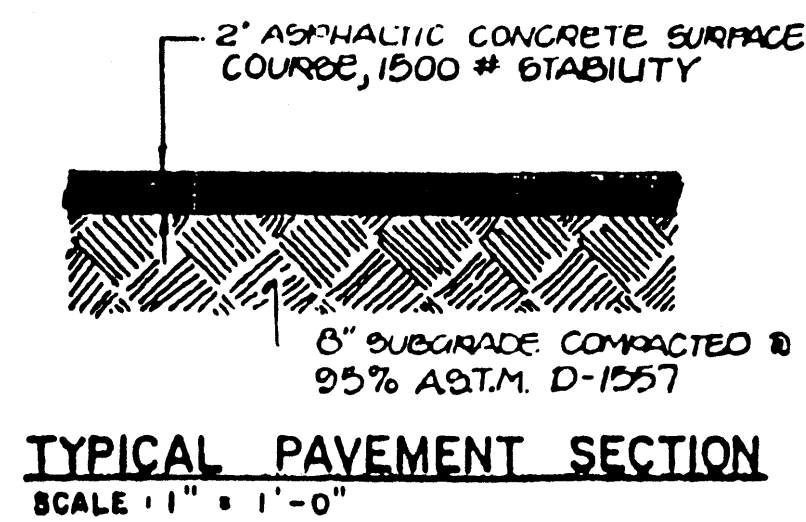
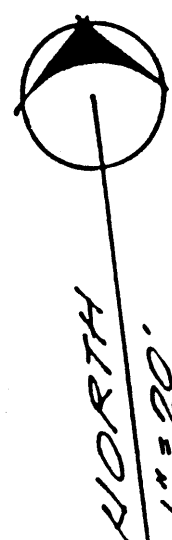
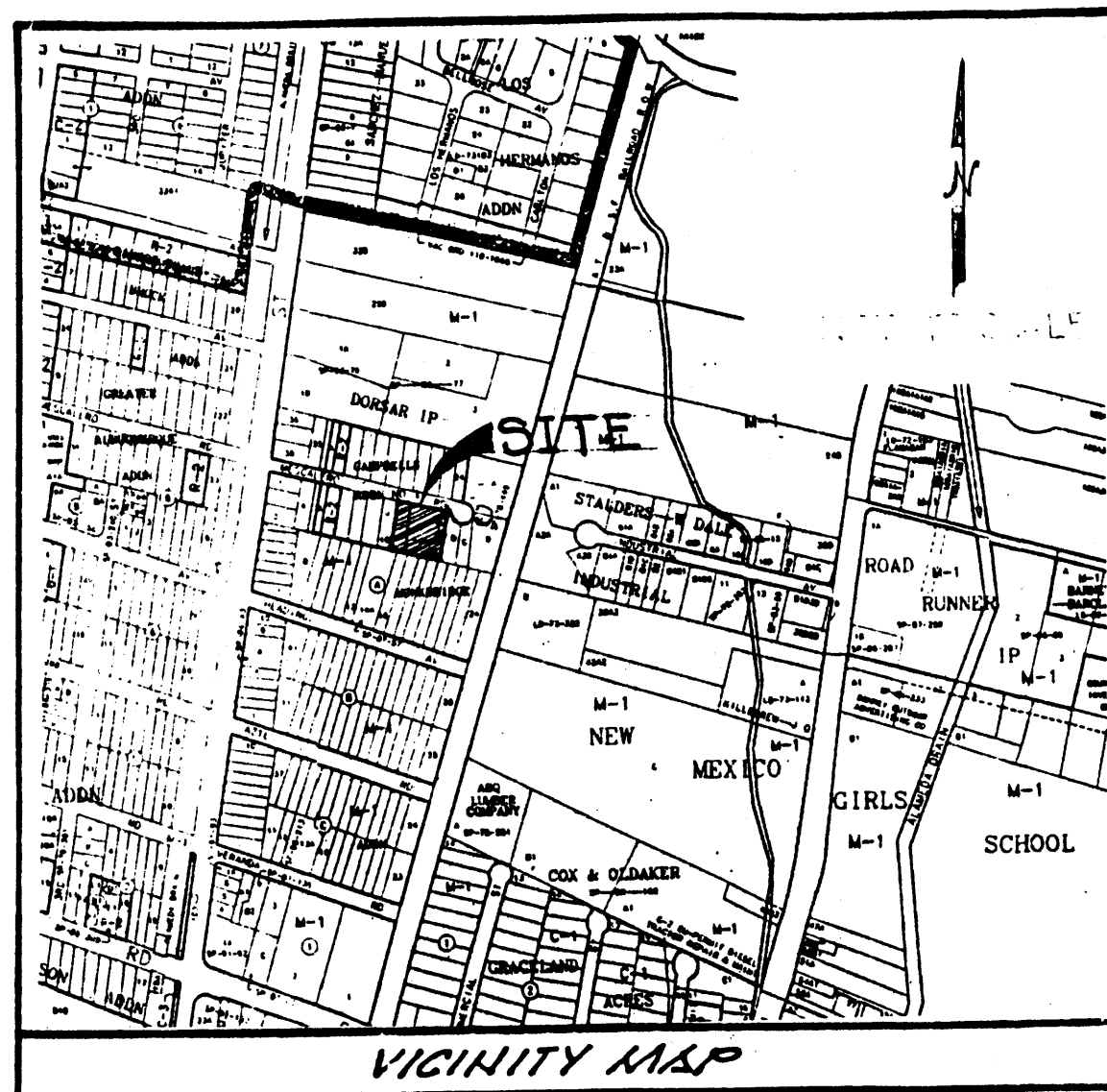
SCALE: 1" = 1'-0"

Red Mountain Engineers, Inc.
Engineers - Surveyors - Planners
1216 PARKWAY DRIVE, SUITE A
P.O. BOX 18115, SANTA FE, NM 87506-0115
PHONE: (505) 473-7373

JOB No. 94274
DATE: DEC. 1994
SCALE: 1" = 20'

PROJECT: SITE PLAN
PADILLA STORAGE

SHEET No. 1



LEGEND:

- T.C. = 67.40 = 75' OF CURB ELEVATION
- E. = 62.73 = CURB ROW LINE ELEVATION
- 68.0 --- = EXISTING OR PROPOSED CONCRETE
- 68.0 --- = EXISTING CONTOUR
- 68.0 --- = PROPOSED CONTOUR
- 68.0 --- = EXISTING FENCE
- 68.0 --- = PROPOSED LIMIT OF NEW DRIVE
- 67.5 = EXISTING SPOT ELEVATION
- 67.58 = AS BUILT CONTOURS
- 67.58 = AS BUILT SPOT ELEVATIONS

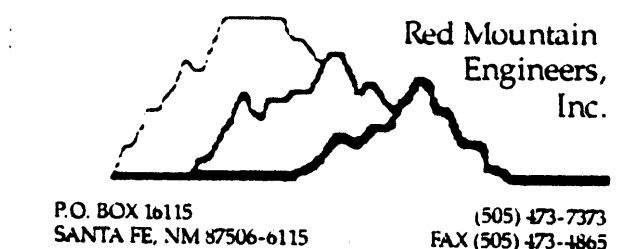
TREE PLANTING LIST						
LEGEND	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED	MATURE	REMARKS
	GLEDTISIA TRIANCANTHOS IHERMIS	SUNBURST HONEY LOCUST	3	24" BOX	35' HT., 35' SPD	1 1/2" CAL., 10' - 12' HT.
	SUNBURST					3' MIN. SPD.
	CHILAPSIS LINEARIS	DESERT WILLOW	3	24" BOX	20' HT., 20' SPD	1 1/2" CAL., 10' - 12' HT.
						3' MIN. SPD.

DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON MESCALERO ROAD N.W. BETWEEN SECOND STREET N.W. AND THE A.T. & S.F. RAILROAD, IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE PROJECT SITE, (1.) DOES NOT LIE ADJACENT TO AN A-1 FLOODPLAIN THAT IS WITHIN MESCALERO ROAD N.W., (FLOOD ZONE "C"), (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY, (4.) DOES NOT ACCEPT OR CONTRIBUTE OFF-SITE FLOWS OF ADJACENT PROPERTIES.

BECAUSE OF DOWNSTREAM FLOODING CONDITIONS, ON-SITE PONDING WITHIN THE PAVED PARKING AREA WITH CONTROLLED RELEASE IS REQUIRED VIA A 4" P.V.C. DRAINPIPE INTO MESCALERO ROAD N.W.



JOB: _____
SHEET NO. _____ OF _____
CALCULATED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
SCALE: _____

City of Albuquerque Stormwater Runoff Calculations For Small Watersheds (< 40 Acres)

Abiququerque Precipitation Zone	2
100 Yr. Design Storm Intensity	2.35 in./hr.
Total Lot Area	37700 Sq. Ft. 0.865 Acres

PRE-DEVELOPMENT CONDITIONS

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	21199	0.486	2.27	3.45
D	16501	0.379	2.57	5.16
Total Area	37700	0.865		

POST-DEVELOPMENT CONDITIONS

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	20115	0.462	2.27	3.45
D	17585	0.403	2.57	5.16
Total Area	37700	0.865		

Land Treatment	Treatment Area (sq. ft.)	Treatment Area (acres)	Excess Precip. (in.)	Peak Discharge (cfs/acre)
A	0.00	0.000	0.00	0.00
B	0.00	0.000	0.00	0.00
C	20115	0.462	2.27	3.45
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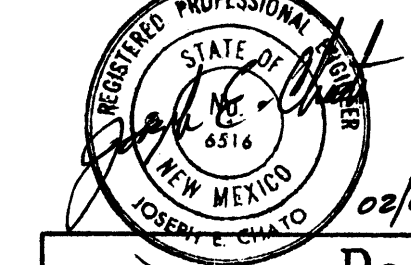
RUNOFF VOLUME DIFFERENCE

Peak Discharge Calculation	$Q_p = (Q_{pA}/A) + (Q_{pB}/B) + (Q_{pC}/C) + (Q_{pD}/D)$
$Q_p = 3.67 \text{ cfs}$	
Volume of Runoff Calculation	$V = [(E_{pA}/A) + (E_{pB}/B) + (E_{pC}/C) + (E_{pD}/D)] \times (1/2)$
$V = 2.084 \text{ acre-ft}$	90.779 ft^3
Runoff Volume Difference	$V = 0.004 \text{ acre-ft}$
	174 ft^3

LEGAL DESCRIPTION: LOT "14-A", CAMPBELL'S ADDITION NO. ONE (1), ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCES: NM 47-10 (NMSHC/ACS, M.S.L.D. ELEVATION = 4967.496; PROJECT BENCH MARK AS SHOWN ON PLAN HEREON.

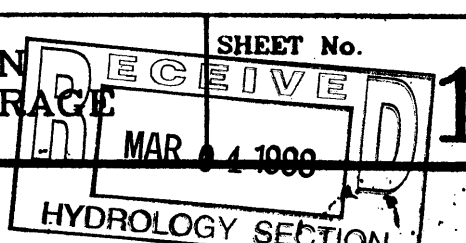
I hereby certify that I am a licensed engineer in the State of New Mexico. To the best of my knowledge, information and belief, this project has been constructed in general conformance with the requirements and specifications, and in my professional opinion, is in substantial compliance with approved grading and drainage plans, hydrology codes, and ordinances.



Red Mountain Engineers, Inc.
Engineers • Surveyors • Planners

1216 PARKWAY DRIVE, SUITE A
P.O. BOX 16115, SANTA FE, NM 87506-8115
PHONE: (505) 473-7373

PROJECT: SITE PLAN
DATE: DEC. 1994
SCALE: 1" = 20'



CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
- 2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 3.) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

STAKING NOTE:

INFORMATION SHOWN IS FOR GRADING AND DRAINAGE ONLY AND IS NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

UTILITY NOTE:

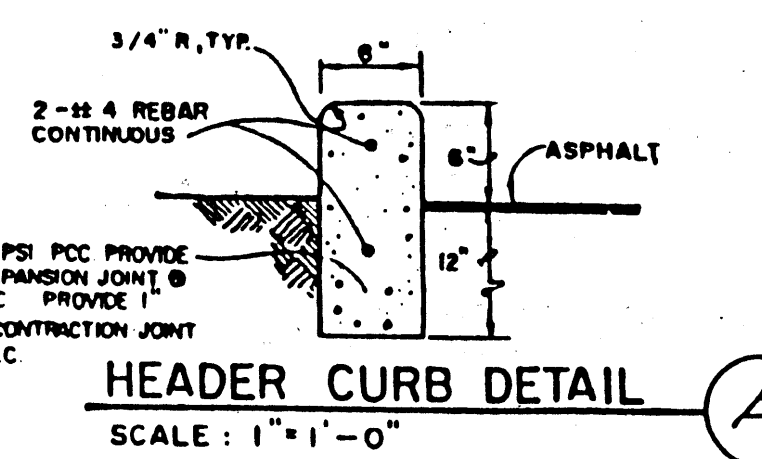
IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND LINES ARE SHOWN ON THE DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER; ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITIES, PIPELINES OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF 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. THE CONTRACTOR IS URGED TO COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES, IN PLANNING AND CONDUCTING EXCAVATION.

NOTES TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THIS PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION OF THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION - PUBLIC WORKS CONSTRUCTION - 1985.
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- 5.) BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
- 6.) MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

GRAVELLED & CURB AREA



TOPOGRAPHY NOTE:

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PARKING REQUIREMENTS

Proposed Building Square Footage	= 980 sq. ft.
Required Parking spaces	= 1 Space/2000 ft ²
Proposed Development	= 1 Space
Existing Development	= 2 Spaces
Total Required	= 3 Spaces
Provided Parking Spaces	
Proposed Development	= 0 Spaces
Existing Development	= 5 Spaces
Total Provided	= 5 Spaces

GENERAL CONSTRUCTION NOTES

GENERAL

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, INCLUDING A TOP SOIL DISTURBANCE PERMIT, PRIOR TO START OF CONSTRUCTION.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

REFERENCES MADE TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS REFER TO THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987 EDITION AS PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORK ASSOCIATION.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THESE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE PLANS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER IN A TIMELY MANNER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY, INCLUDING ENGINEERING DESIGN FEES.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE. IF THE CONTRACTOR DESIRES TO REMOVE FENCING TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN PERMISSION BEFORE THE FENCE IS REMOVED. CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION AT THE EARLIEST OPPORTUNITY. WHILE ANY FENCING IS REMOVED, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS RESTORED.

WORK WITHIN ADJACENT RIGHT-OF-WAY

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN ADJACENT RIGHT-OF-WAYS OR WITHIN PROPERTY NOT OWNED BY THE OWNER OF THE PROJECT SITE, THE CONTRACTOR SHALL ASSURE THAT ALL PERMITS AND PERMISSIONS REQUIRED HAVE BEEN OBTAINED IN WRITING.

SURVEY MONUMENTS, PROPERTY CORNERS, BENCHMARKS

THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST SEVEN DAYS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY THAT COULD DAMAGE OR DISPLACE SURVEY MONUMENTS, PROPERTY CORNERS, OR PROJECT BENCHMARKS SO THESE ITEMS MAY BE RELOCATED.

ANY SURVEY MONUMENTS, PROPERTY CORNERS, OR BENCHMARKS THAT ARE NOT IDENTIFIED FOR RELOCATION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT. RELOCATION OR REPLACEMENT OF THESE ITEMS SHALL BE DONE BY THE OWNER'S SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

DIMENSIONS

ALL DIMENSIONS TO CURBS ARE TO THE FLOWLINE UNLESS OTHERWISE NOTED.

ALL STATIONING IS TO THE CENTERLINE OF THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

ALL SLOPES AND GRADES ARE IN PERCENT UNLESS OTHERWISE NOTED.

CURB ELEVATIONS ARE SHOWN AT THE FLOW LINE UNLESS OTHERWISE NOTED. SEE THE DETAIL SHEET TO DETERMINE THE CURB HEIGHT ABOVE FLOW LINE.

SOILS

UNLESS OTHERWISE SPECIFIED, SUBGRADE, ENGINEERED FILL, AND STRUCTURAL FILL SHALL BE COMPACTED TO THE FOLLOWING SPECIFICATIONS OF THE ASTM D-1557 MAXIMUM DRY DENSITY.

MATERIAL/LOCATION	PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95%
SUBBASE FOR SLAB SUPPORT	95%
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROADWAY PAVEMENT	95%
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90%
ROADWAY PAVEMENT SUBGRADE	95%
SIDEWALK SUBGRADE	90%
CURB AND GUTTER SUBGRADE	95%

PAVEMENT

WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, CUT EXISTING PAVEMENT EDGE TO A NEAT, STRAIGHT LINE AS NECESSARY TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVEMENT ELEVATION TO EXISTING.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION, AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE BEFORE PAVING.

WHEN SIDEWALK OR CURB AND GUTTER IS REMOVED, IT SHALL BE REMOVED TO EXISTING CONSTRUCTION JOINTS. CUTTING OR BREAKING SHALL NOT BE ALLOWED.

UTILITIES

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. THIS INFORMATION MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1, THROUGH 14-8, NMSA 1978.

THE CONTRACTOR SHALL CONTACT THE STATEWIDE UTILITY LOCATOR SERVICE AT 1-800-321-2537 AT LEAST TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION. AFTER THE UTILITIES ARE SPOTTED, THE CONTRACTOR SHALL EXPOSE ALL PERTINENT UTILITIES TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION. IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY.

THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CARELESS CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

EXISTING VALVES SHALL ONLY BE OPERATED BY THE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF TWO WORKING DAYS BEFORE ANY VALVE, NEW OR EXISTING, NEEDS TO BE OPERATED.

THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE OWNER AND AFFECTED UTILITY COMPANY A MINIMUM OF THREE WORKING DAYS BEFORE THE INTERRUPTION.

THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET OF PLANS AND PROMPTLY LOCATE ALL UTILITIES, EXISTING OR NEW, IN THEIR CORRECT LOCATION, HORIZONTAL AND VERTICAL. THIS RECORD SET OF DRAWINGS SHALL BE MAINTAINED ON THE PROJECT SITE AND SHALL BE AVAILABLE TO THE OWNER AND ENGINEER AT ANY TIME DURING CONSTRUCTION.

EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PREPARE ANY DUST CONTROL OR EROSION CONTROL PERMITS REQUIRED FROM THE REGULATORY AGENCIES.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITH THE PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY BY CONSTRUCTION OF TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AND WETTING THE SOIL TO PREVENT IT FROM BLOWING.

WATERING, AS REQUIRED FOR CONSTRUCTION DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH RECLAMATION SEEDING.

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING IT TO AN APPROVED DISPOSAL SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC., SHALL BE APPROPRIATELY DISPOSED OF OFFSET AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO EMERGENCY RESPONSE AT 1-800-219-6157.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER, CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.

ACCESSIBLE FACILITIES

ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE FIRM, SLIDE RESISTANT AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS, PARAGRAPH 4.5.

LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.

THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".

TRAFFIC CONTROL

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION. PRIOR TO CONSTRUCTION, TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE GOVERNING AUTHORITY.

DRAINAGE REPORT

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.8828 ACRES LOCATED ON THE SOUTH SIDE OF MESCALERO ROAD AND EAST OF SECOND STREET, AS SHOWN ON THE VICINITY MAP ON SHEET C2. IT IS CURRENTLY DEVELOPED WITH ASPHALT AND GRAVEL PARKING AREAS AND SEVERAL BUILDINGS. NO STRUCTURES ARE BEING CONSTRUCTED AT THIS TIME. THE PROPOSED IMPROVEMENTS ARE TO PAVE THE EXISTING GRAVEL PARKING AREA. THIS DOES NOT ALTER THE EXISTING APPROVED PARKING SPACES OR TRAFFIC CIRCULATION IN ANY WAY.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0332 D, DATED SEPTEMBER 20, 1996 IS NOT WITHIN ANY DESIGNATED 100-YEAR FLOODPLAIN. A PORTION OF THIS PANEL WITH THE SITE DESIGNATED ON IT IS INCLUDED ON SHEET C2. DOWNSTREAM STREET. CAPACITY WITHIN MESCALERO ROAD IS LIMITED AND IS WITHIN A DESIGNATED FLOODPLAIN (ZONE AO, DEPTH 1').

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

PRECIPITATION

THE 100-YR, 6-HR AND 100-YR, 10 DAY DURATION STORM EVENTS WERE USED AS THE DESIGN STORMS FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 2 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE 6-HOUR, 24-HOUR, AND 10-DAY PRECIPITATION VALUES, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

EXISTING DRAINAGE

THE SITE IS DEVELOPED AS DESCRIBED ABOVE IN "LOCATION AND DESCRIPTION." THE EASTERN PORTION OF THE SITE HAS BEEN DEVELOPED AND DISCHARGES THROUGH A 4" PIPE INTO MESCALERO ROAD. THE PORTION OF THE SITE THAT WILL BE DEVELOPED WITH AN ASPHALT PARKING LOT IS VERY FLAT BUT WILL DISCHARGE TO MESCALERO ROAD. THE SITE IS DEVELOPED WITH PERIMETER FENCES THAT PREVENT OFFSITE RUNOFF FROM ENTERING THE SITE. THEREFORE, NO OFFSITE BASINS HAVE BEEN EVALUATED IN THIS STUDY.

DEVELOPED CONDITION

TWO CONDITIONS HAVE BEEN CONSIDERED FOR THIS LOT. THE INITIAL CONSTRUCTION WILL INCLUDE THE ADDITIONAL ASPHALT PARKING AREA. THIS 11,800 SQUARE FOOT AREA WAS INCLUDED AS THE TYPE 'C' LAND TREATMENT FOR EXISTING CONDITIONS FOR GRAVEL PARKING. THEN IT WAS ANALYZED AS TYPE 'D' LAND TREATMENT FOR THE INTERIM CONDITION. THIS GENERATES AN ADDITIONAL 992 CUBIC FEET OF RUNOFF VOLUME FOR THE 100-YEAR, 6-HOUR STORM. THEN THE ENTIRE SITE WAS EVALUATED FOR 90% IMPERVIOUS TO ACCOUNT FOR FUTURE DEVELOPMENT WITHIN THE SITE. THIS IS SHOWN AS PROPOSED CONDITIONS IN THE "100-YEAR HYDROLOGIC CALCULATIONS" BELOW. THE 90% IMPERVIOUS CONDITION SHOWS A 6-HOUR VOLUME INCREASE OF 1,488 CUBIC FEET. THEREFORE, THE NEW ASPHALT PARKING LOT HAS BEEN DESIGNED AS A POND WITH A MAXIMUM PONDING DEPTH OF 0.5' AND A RETENTION VOLUME OF 1,703 CUBIC FEET. THEREFORE, THE ENTIRE SITE CAN BE DEVELOPED WITH 90% OF THE LOT IMPERVIOUS AND THIS PARKING LOT CAN CONTAIN THE ADDITIONAL RUNOFF VOLUME. TWO (2) TYPE 'D' INLETS ARE PROPOSED WITH A ROCK DRAIN BETWEEN THEM TO ALLOW MINOR STORM EVENTS TO BE STORED UNDERGROUND UNTIL THE RUNOFF INFILTRATES INTO THE GROUND. HOWEVER, THIS UNDERGROUND VOLUME IS NOT INCLUDED IN THE VOLUME CALCULATIONS. THEREFORE, THIS SITE CAN BE DEVELOPED, ACCORDING TO THIS PLAN, WITHOUT HAVING AN ADVERSE EFFECT ON THE DOWNSTREAM PROPERTY AND FLOODPLAIN. MESCALERO ROAD WILL CONTINUE TO SERVE AS THE OUTFALL FOR THIS PROPERTY IF THE POND VOLUME IS EXCEEDED. THEREFORE, THE EXISTING STRUCTURES ON THIS SITE ARE NOT JEOPARDIZED BY THIS DEVELOPMENT.

CONDITION ON FUTURE DEVELOPMENT

RUNOFF FROM ALL FUTURE DEVELOPMENT SHALL BE DIRECTED TO THE POND WITHIN THE PARKING LOT.

100-YEAR HYDROLOGIC CALCULATIONS											
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10 day) (acre-ft)	V(10 day) (cu-ft)	Q (cfs)
		A (%)	B (%)	C (%)	D (%)						
EXISTING CONDITIONS											
SITE	0.8628	0.00	2.00	56.00	42.00	1.54	0.11	4,820	0.16	6,924	3.26
INTERIM CONDITIONS											
SITE	0.8628	0.00	2.00	24.00	74.00	1.86	0.13	5,812	0.22	9,520	3.69
PROPOSED CONDITIONS											
SITE	0.8628	0.00	2.00	8.00	90.00	2.01	0.14	6,308	0.25	10,818	3.91
EXCESS PRECIP		0.53	0.78	1.13	2.12	E _i (in)					
PEAK DISCHARGE		1.56	2.28	3.14	4.7	Q _p (cfs)					
WEIGHTED E (in) = (E _a)(%A) + (E _b)(%B) + (E _c)(%C) + (E _d)(%D)							ZONE = 2				
V _{6-hr} (acre-ft) = (WEIGHTED E)(AREA)/12							P _{6-hr} (in) = 2.35				
V _{10day} (acre-ft) = V _{6-hr} + (A _p)(P _{10day} - P _{6-hr})/12							P _{24-hr} (in) = 2.75				
							P _{10day} (in.) = 3.95				
Q (cfs) = (Q _{6-hr})(A _s) + (Q _{24-hr})(A _s) + (Q _{10d})(A _c) + (Q _{10d})(A _o)											

POND VOLUME CALCULATIONS				
ELEV	AREA (sq. ft.)	INC VOL (cu. ft.)	TOTAL VOL (cu. ft.) (acre-ft.)	
67.25	0	0.00	0.00	0.00
67.50	2,985	373	373	0.01
67.75	7,655	1,330	1,703	0.04

G15-D41
Billy Mc Cuddy
Mescalero.
st.

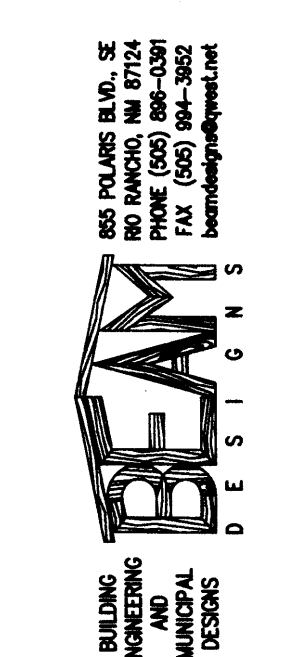
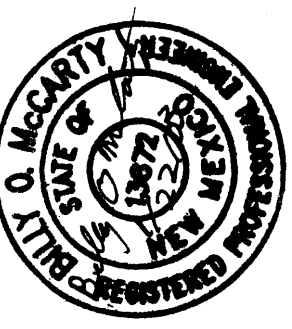
ABBREVIATIONS			
BLDG = BUILDING	ELEC = ELECTRIC	INV = INVERT ELEVATION	STD = STANDARD
BM = BENCHMARK	ELEV = ELEVATION	LF = LINEAL FEET	SW = SIDEWALK
CO = CLEANOUT	EX = EXISTING	PROJ = PROJECTED	TA = TOP OF ASPHALT PAVEMENT
CONC = CONCRETE	EXIST = EXISTING	PVC = POLYVINYL CHLORIDE PIPE	TC = TOP OF CONC. SLAB (PAVEMENT)
CL = CENTERLINE	FF = FINISHED FLOOR ELEVATION	R/W = RIGHT-OF-WAY	TCC = TOP OF CONCRETE CURB
DTL = DETAIL	FG = FINISHED GRADE	S = SLOPE	TG = TOP OF GRATE
DWG = DRAWING	FH = FIRE HYDRANT	SAS = SANITARY SEWER	TS = TOP OF SIDEWALK
EG = EXISTING GROUND	FL = FLOW LINE	SD = STORM DRAIN	TPY = TYPICAL

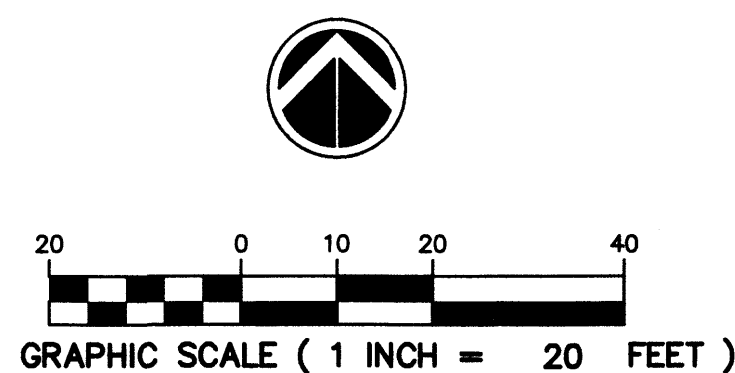
GENERAL NOTES AND DRAINAGE REPORT

LEGAL DESCRIPTION:
LOT NUMBERED FOURTEEN-A (14-A) OF THE PLAT ENTITLED, "CAMPELLO'S ADDITION NO. 1," AS THE SAME AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 4, 1990, IN VOL. 900, FOL. 100.

REVISION	DATE	DESCRIPTION

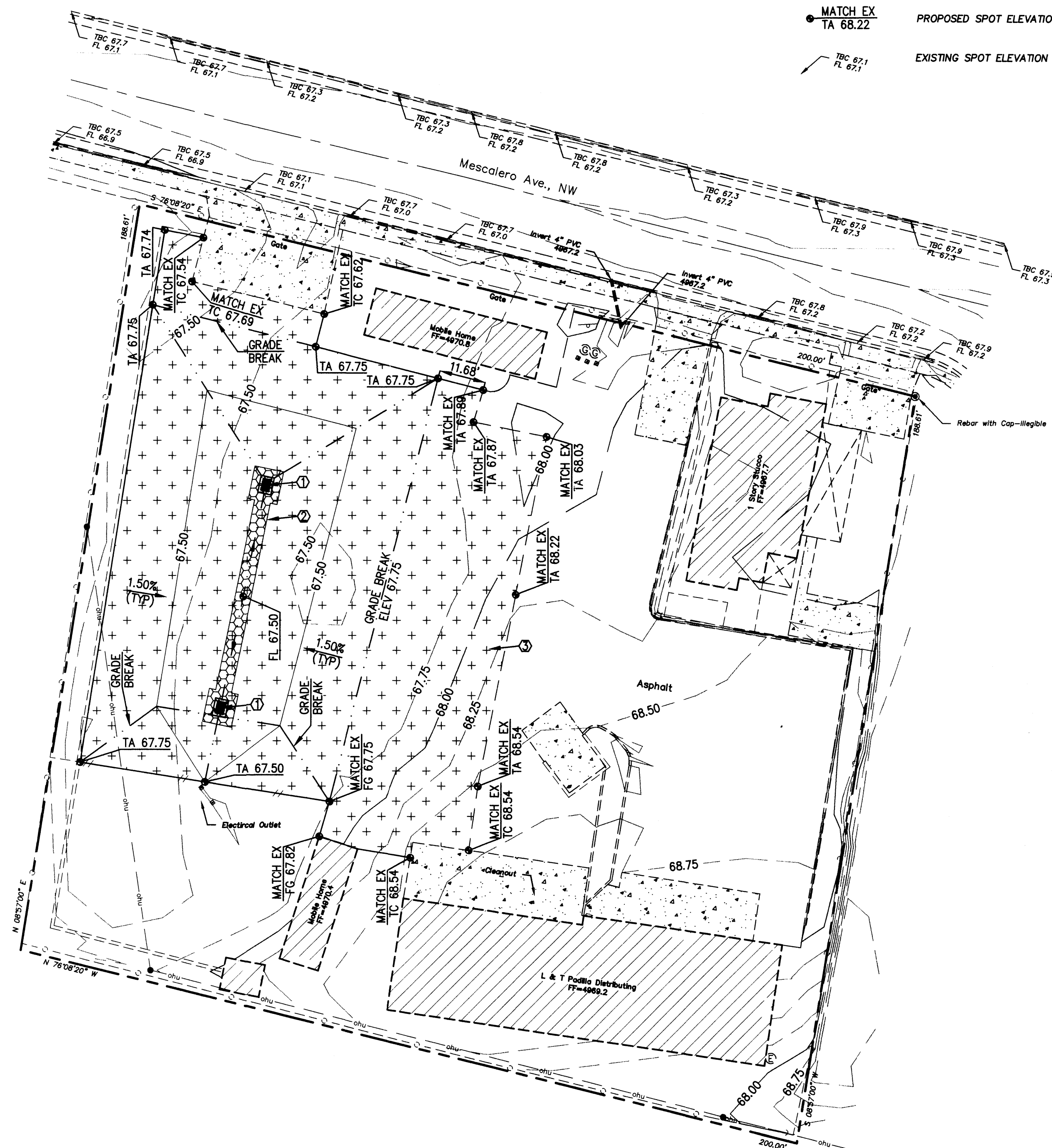
FILE NAME: PADILLA_GD 01/22/03 SHEET C1 of 2





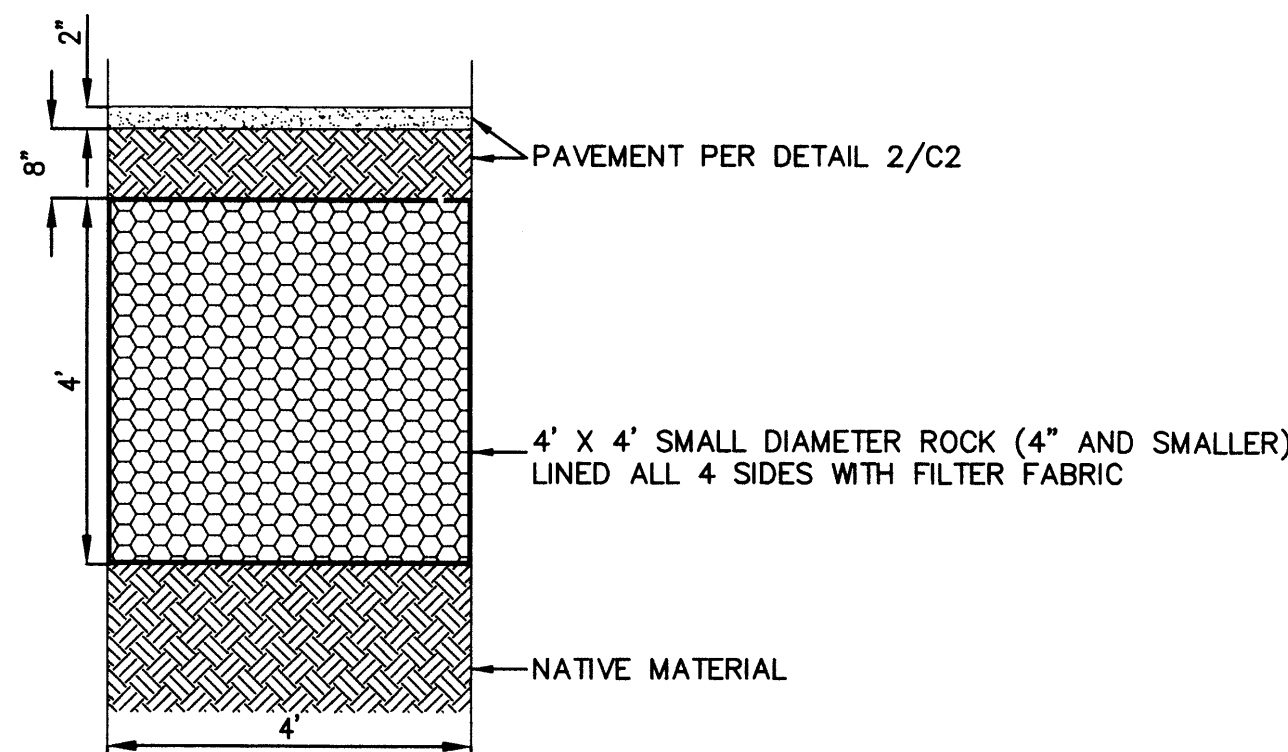
Legend

- N 90°00'00" E
- RECORD DISTANCE AND BEARING FOUND AS INDICATED
 - GAS METER
 - BOLLARD
 - GUY WIRE
 - OVERHEAD UTILITY LINES
 - LIGHT POST
 - ELECTRIC METER
 - SIGN
 - EXISTING 0.25' CONTOUR
 - EXISTING 1' CONTOUR
 - PROPOSED CONTOUR
 - GRADE BREAK
 - PROPOSED ASPHALT
 - PROPOSED ROCK DRAIN
 - MATCH EX TA 68.22
 - PROPOSED SPOT ELEVATION
 - EXISTING SPOT ELEVATION

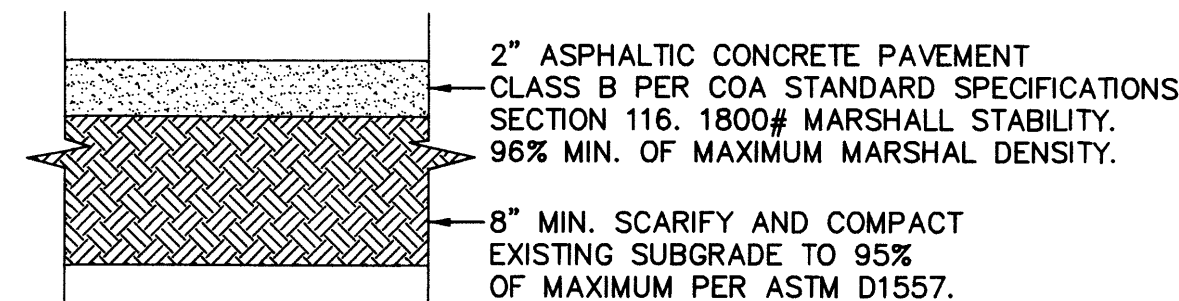


CONSTRUCTION NOTES

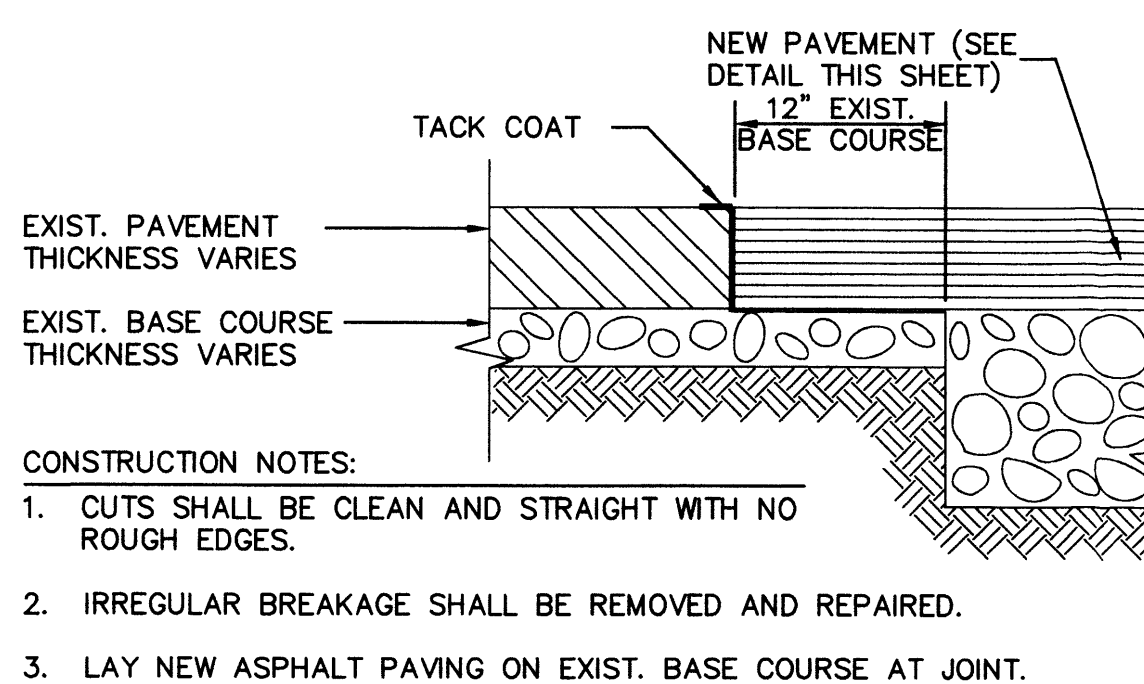
- SINGLE GRATE TYPE D INLET PER COA DWG 2206 CONSTRUCT SIDES ONLY (NO FLOOR) EXTEND GRAVEL TRENCH 2' WIDE AROUND INLET TO 67.20 BOTTOM 65.70
- ROCK TRENCH PER DETAIL 1/C2
- ASPHALT PAVEMENT PER DETAIL 2/C2



- 1 ROCK TRENCH
C2 N. T. S.



- 2 ASPHALT PAVEMENT SECTION
C2 N. T. S.



- 3 PAVEMENT CUT AND PATCH DETAIL
C2 N. T. S.



VICINITY MAP G-15

SURVEY NOTES

FIELD SURVEY BY: CARTESIAN SURVEYS
P.O. BOX 44414
RIO RANCHO, NM 87174

SURVEY DATE: DEC. 2002
PHONE: (505) 896-3050
FAX: (505) 891-0244

THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED BY THE OWNER AS SUCH.

BENCH MARK:

ACS MONUMENT "M-47-10", LOCATED IN THE CENTER MEDIAN OF SECOND STREET 95' NORTH OF THE NORTHERN MEDIAN NOSE AT THE INTERSECTION WITH MESCALERO ROAD, ELEVATION = 4967.496.

FLOOD ZONE:

THE PROPERTY SHOWN HEREON DOES NOT LIE WITHIN ANY DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, COMMUNITY-PANEL NO. 35001C0332 D) EFFECTIVE DATE SEPTEMBER 20, 1996 AS SHOWN ON THIS SHEET.

FIRM PANEL 332 (1"=500' ±)



GRADING AND DRAINAGE PLAN

PADILLA DISTRIBUTING COMPANY
124 MESCALERO RD, NW
ALBUQUERQUE, NM 87107

LEGAL DESCRIPTION:

LOT NUMBERED FOURTEEN-A (14-A) OF THE PLAT ENTITLED, "CARPENTER'S ADDITION NO. 1" AS THE SAME IS SHOWN AND DESCRIBED ON THE PLAT THEREOF FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 4, 1990, IN VOL. 90C, FOL. 100.

REVISION

REVISION	DATE	DESCRIPTION

BEAM
ENGINEERING
AND
ARCHITECTURE
DESIGNS

1000 PULVER BLVD. SE
SUITE 100
ALBUQUERQUE, NM 87106
PHONE: (505) 896-3050
FAX: (505) 891-0244
www.beamdesigns.com

GENERAL CONSTRUCTION NOTES

GENERAL

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, INCLUDING A TOP SOIL DISTURBANCE PERMIT, PRIOR TO START OF CONSTRUCTION.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

REFERENCES MADE TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS REFER TO THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987 EDITION AS PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORK ASSOCIATION.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THESE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE PLANS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER IN A TIMELY MANNER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY, INCLUDING ENGINEERING DESIGN FEES.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR DESIRES TO REMOVE FENCING TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN PERMISSION BEFORE THE FENCE IS REMOVED. CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION AT THE EARLIEST OPPORTUNITY. WHILE ANY FENCING IS REMOVED, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS RESTORED.

WORK WITHIN ADJACENT RIGHT-OF-WAY

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN ADJACENT RIGHT-OF-WAYS OR WITHIN PROPERTY NOT OWNED BY THE OWNER OF THE PROJECT SITE, THE CONTRACTOR SHALL ASSURE THAT ALL PERMITS AND PERMISSIONS REQUIRED HAVE BEEN OBTAINED IN WRITING.

SURVEY MONUMENTS, PROPERTY CORNERS, BENCHMARKS

THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST SEVEN DAYS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY THAT COULD DAMAGE OR DISPLACE SURVEY MONUMENTS, PROPERTY CORNERS, OR PROJECT BENCHMARKS SO THESE ITEMS MAY BE RELOCATED.

ANY SURVEY MONUMENTS, PROPERTY CORNERS, OR BENCHMARKS THAT ARE NOT IDENTIFIED FOR RELOCATION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT. RELOCATION OR REPLACEMENT OF THESE ITEMS SHALL BE DONE BY THE OWNER'S SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

DIMENSIONS

ALL DIMENSIONS TO CURBS ARE TO THE FLOWLINE UNLESS OTHERWISE NOTED.

ALL STATIONING IS TO THE CENTERLINE OF THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

ALL SLOPES AND GRADES ARE IN PERCENT UNLESS OTHERWISE NOTED.

CURB ELEVATIONS ARE SHOWN AT THE FLOW LINE UNLESS OTHERWISE NOTED. SEE THE DETAIL SHEET TO DETERMINE THE CURB HEIGHT ABOVE FLOW LINE.

SOILS

UNLESS OTHERWISE SPECIFIED, SUBGRADE, ENGINEERED FILL, AND STRUCTURAL FILL SHALL BE COMPACTED TO THE FOLLOWING SPECIFICATIONS OF THE ASTM D-1557 MAXIMUM DRY DENSITY.

MATERIAL/LOCATION	PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95%
SUBBASE FOR SLAB SUPPORT	95%
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROADWAY PAVEMENT	95%
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90%
ROADWAY PAVEMENT SUBGRADE	95%
SIDEWALK SUBGRADE	90%
CURB AND GUTTER SUBGRADE	95%

PAVEMENT

WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, CUT EXISTING PAVEMENT EDGE TO A NEAT, STRAIGHT LINE AS NECESSARY TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVEMENT ELEVATION TO EXISTING.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION, AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE BEFORE PAVING.

WHEN SIDEWALK OR CURB AND GUTTER IS REMOVED, IT SHALL BE REMOVED TO EXISTING CONSTRUCTION JOINTS. CUTTING OR BREAKING SHALL NOT BE ALLOWED.

UTILITIES

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. THIS INFORMATION MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1, THROUGH 14-8, NMSA 1978.

THE CONTRACTOR SHALL CONTACT THE STATEWIDE UTILITY LOCATOR SERVICE AT 1-800-321-2537 AT LEAST TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION. AFTER THE UTILITIES ARE SPOTTED, THE CONTRACTOR SHALL EXPOSE ALL PERTINENT UTILITIES TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION. IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY.

THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CARELESS CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

EXISTING VALVES SHALL ONLY BE OPERATED BY THE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF TWO WORKING DAYS BEFORE ANY VALVE, NEW OR EXISTING, NEEDS TO BE OPERATED.

THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE OWNER AND AFFECTED UTILITY COMPANY A MINIMUM OF THREE WORKING DAYS BEFORE THE INTERRUPTION.

THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET OF PLANS AND PROMPTLY LOCATE ALL UTILITIES, EXISTING OR NEW, IN THEIR CORRECT LOCATION, HORIZONTAL AND VERTICAL. THIS RECORD SET OF DRAWINGS SHALL BE MAINTAINED ON THE PROJECT SITE AND SHALL BE AVAILABLE TO THE OWNER AND ENGINEER AT ANY TIME DURING CONSTRUCTION.

EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PREPARE ANY DUST CONTROL OR EROSION CONTROL PERMITS REQUIRED FROM THE REGULATORY AGENCIES.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITH THE PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY BY CONSTRUCTION OF TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AND WETTING THE SOIL TO PREVENT IT FROM BLOWING.

WATERING, AS REQUIRED FOR CONSTRUCTION DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH RECLAMATION SEEDING.

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING IT TO AN APPROVED DISPOSAL SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC., SHALL BE APPROPRIATELY DISPOSED OF OFFSET AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO EMERGENCY RESPONSE AT 1-800-219-6157.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.

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LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.

THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".

TRAFFIC CONTROL

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION. PRIOR TO CONSTRUCTION, TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE GOVERNING AUTHORITY.

DRAINAGE REPORT

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.6828 ACRES LOCATED ON THE SOUTH SIDE OF MESCALERO ROAD AND EAST OF SECOND STREET, AS SHOWN ON THE VICINITY MAP ON SHEET C2. IT IS CURRENTLY DEVELOPED WITH ASPHALT AND GRAVEL PARKING AREAS AND SEVERAL BUILDINGS. NO STRUCTURES ARE BEING CONSTRUCTED AT THIS TIME. THE PROPOSED IMPROVEMENTS ARE TO PAVE THE EXISTING GRAVEL PARKING AREA. THIS DOES NOT ALTER THE EXISTING APPROVED PARKING SPACES OR TRAFFIC CIRCULATION IN ANY WAY.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0332 D, DATED SEPTEMBER 20, 1996 IS NOT WITHIN ANY DESIGNATED 100-YEAR FLOODPLAIN. A PORTION OF THIS PANEL WITH THE SITE DESIGNATED ON IT IN INCLUDED ON SHEET C2. DOWNSTREAM STREET. CAPACITY WITHIN MESCALERO ROAD IS LIMITED AND IS WITHIN A DESIGNATED FLOODPLAIN (ZONE AO, DEPTH 1').

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

PRECIPITATION

THE 100-YR, 6-HR AND 100-YR, 10 DAY DURATION STORM EVENTS WERE USED AS THE DESIGN STORMS FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 2 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE 6-HOUR, 24-HOUR, AND 10-DAY PRECIPITATION VALUES, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

EXISTING DRAINAGE

THE SITE IS DEVELOPED AS DESCRIBED ABOVE IN "LOCATION AND DESCRIPTION." THE EASTERN PORTION OF THE SITE HAS BEEN DEVELOPED AND DISCHARGES THROUGH A 4" PIPE INTO MESCALERO ROAD. THE PORTION OF THE SITE THAT WILL BE DEVELOPED WITH AN ASPHALT PARKING LOT IS VERY FLAT BUT WILL DISCHARGE TO MESCALERO ROAD. THE SITE IS DEVELOPED WITH PERIMETER FENCES THAT PREVENT OFFSITE RUNOFF FROM ENTERING THE SITE. THEREFORE, NO OFFSITE BASINS HAVE BEEN EVALUATED IN THIS STUDY.

DEVELOPED CONDITION

TWO CONDITIONS HAVE BEEN CONSIDERED FOR THIS LOT. THE INITIAL CONSTRUCTION WILL INCLUDE THE ADDITIONAL ASPHALT PARKING AREA. THIS 11,800 SQUARE FOOT AREA WAS INCLUDED AS THE TYPE 'C' LAND TREATMENT FOR EXISTING CONDITIONS FOR GRAVEL PARKING. THEN IT WAS ANALYZED AS TYPE 'D' LAND TREATMENT FOR THE INTERIM CONDITION. THIS GENERATES AN ADDITIONAL 992 CUBIC FEET OF RUNOFF VOLUME FOR THE 100-YEAR, 6-HOUR STORM. THEN THE ENTIRE SITE WAS EVALUATED FOR 90% IMPERVIOUS TO ACCOUNT FOR FUTURE DEVELOPMENT WITHIN THE SITE. THIS IS SHOWN AS PROPOSED CONDITIONS IN THE "100-YEAR HYDROLOGIC CALCULATIONS" BELOW. THE 90% IMPERVIOUS CONDITION SHOWS A 6-HOUR VOLUME INCREASE OF 1,488 CUBIC FEET. IN A MEETING WITH COA HYDROLOGY DEPARTMENT, IT WAS DETERMINED THAT THIS INCREASE IN VOLUME IS INSIGNIFICANT COMPARED TO THE OVERALL FLOODPLAIN VOLUME. THE NEW ASPHALT PARKING LOT HAS BEEN DESIGNED FOR FREE DISCHARGE TO MESCALERO ROAD VIA A CONCRETE VALLEY GUTTER AND SIDEWALK CULVERT. THEREFORE, THIS SITE CAN BE DEVELOPED, ACCORDING TO THIS PLAN, WITHOUT HAVING AN ADVERSE EFFECT ON THE DOWNSTREAM PROPERTY AND FLOODPLAIN.

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED								
		A (%)	B (%)	C (%)	D (%)	E (in)	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10 day) (acre-ft)	V(10 day) (cu-ft)	Q (cfs)			
EXISTING CONDITIONS														
SITE	0.8828	0.00	2.00	56.00	42.00	1.54	0.11	4,820	0.16	6,924	3.26			
INTERIM CONDITIONS														
SITE	0.8828	0.00	2.00	24.00	74.00	1.86	0.13	5,812	0.22	9,520	3.69			
PROPOSED CONDITIONS														
SITE	0.8828	0.00	2.00	8.00	90.00	2.01	0.14	6,306	0.25	10,818	3.91			
EXCESS PRECIP.		0.53	0.78	1.13	2.12	E _i (in)								
PEAK DISCHARGE		1.66	2.28	3.14	4.7	Q _m (cfs)								
WEIGHTED E (in) = (E _a)(%A) + (E _b)(%B) + (E _c)(%C) + (E _d)(%D)													ZONE = 2	
V _{6hr} (acre-ft) = (WEIGHTED E)(AREA)/12													P _{6hr} (in.) = 2.35	
V _{10day} (acre-ft) = V _{6hr} + (A _o)(P _{10day} - P _{6hr})/12													P _{24hr} (in.) = 2.75	
Q (cfs) = (Q _{pa})(A _a) + (Q _{pb})(A _b) + (Q _{pc})(A _c) + (Q _{pd})(A _d)													P _{10day} (in.) = 3.95	

ABBREVIATIONS

BLDG = BUILDING	ELEC = ELECTRIC	INV = INVERT ELEVATION	STD = STANDARD
BM = BENCHMARK	ELEV = ELEVATION	LF = LINEAL FEET	SW = SIDEWALK
CO = CLEANOUT	EX = EXISTING	PROJ = PROJECTED	TA = TOP OF ASPHALT PAVEMENT
CONC = CONCRETE	EXIST = EXISTING	PVC = POLYVINYL CHLORIDE PIPE	TC = TOP OF CONC. SLAB (PAVEMENT)
CL = CENTERLINE	FF = FINISHED FLOOR ELEVATION	R/W = RIGHT-OF-WAY	TCC = TOP OF CONCRETE CURB
DTL = DETAIL	FG = FINISHED GRADE	S = SLOPE	TG = TOP OF GRATE
DWG = DRAWING	FH = FIRE HYDRANT	SAS = SANITARY SEWER	TS = TOP OF SIDEWALK
EG = EXISTING GROUND	FL = FLOW LINE	SD = STORM DRAIN	TYP = TYPICAL

LEGAL DESCRIPTION:

LOT NUMBERED FOURTEEN-A (14-A) OF THE PLAT ENTITLED, "CAMPELL'S ADDITION NO. 1," AS THE SAME AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 4, 1990, IN VOL. 90C, FOL. 100.

REVISION

DATE

DESCRIPTION

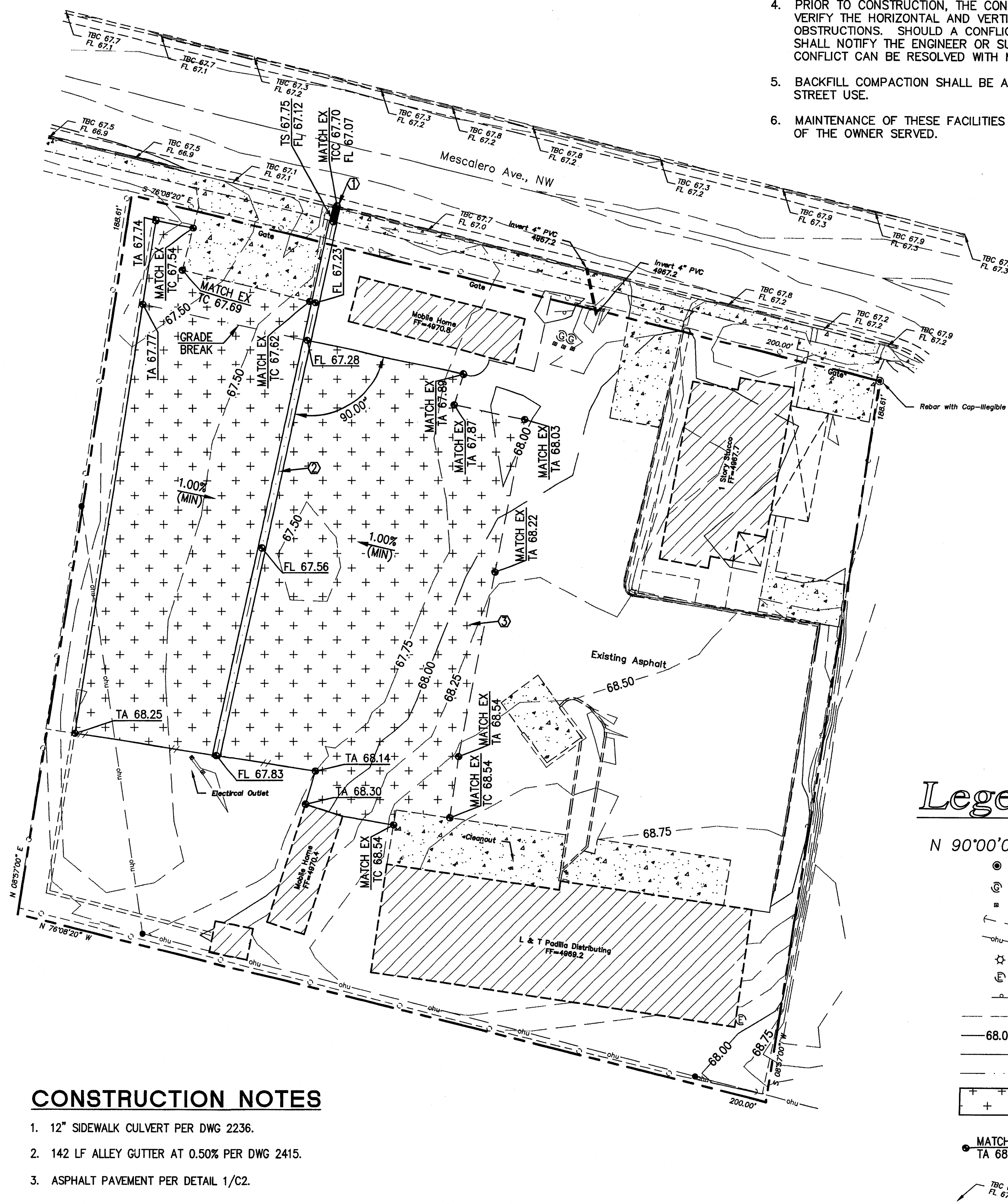
FILE NAME:

SHEET C1 of 2

100

100

100



1. 12" SIDEWALK CULVERT PER DWG 2236.
2. 142 LF ALLEY GUTTER AT 0.50% PER DWG 2415
3. ASPHALT PAVEMENT PER DETAIL 1/C2.

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED WITHIN THE CITY RIGHT-OF-WAY SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.
3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND DETERMINE THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER SERVED.

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED, INSPECTED AND APPROVED PRIOR TO FINAL ACCEPTANCE.

APPROVALS	ENGINEERS	DATE	
A.C.E./DESIGN			
INSPECTOR			
A.C.E./FIELD			

SURVEY NOTES

FIELD SURVEY BY:
CARTESIAN SURVEYS
P.O. BOX 44414
RIO RANCHO, NM 87174

SURVEY DATE: DEC, 2002
PHONE: (505) 896-3050
FAX: (505) 891-0244

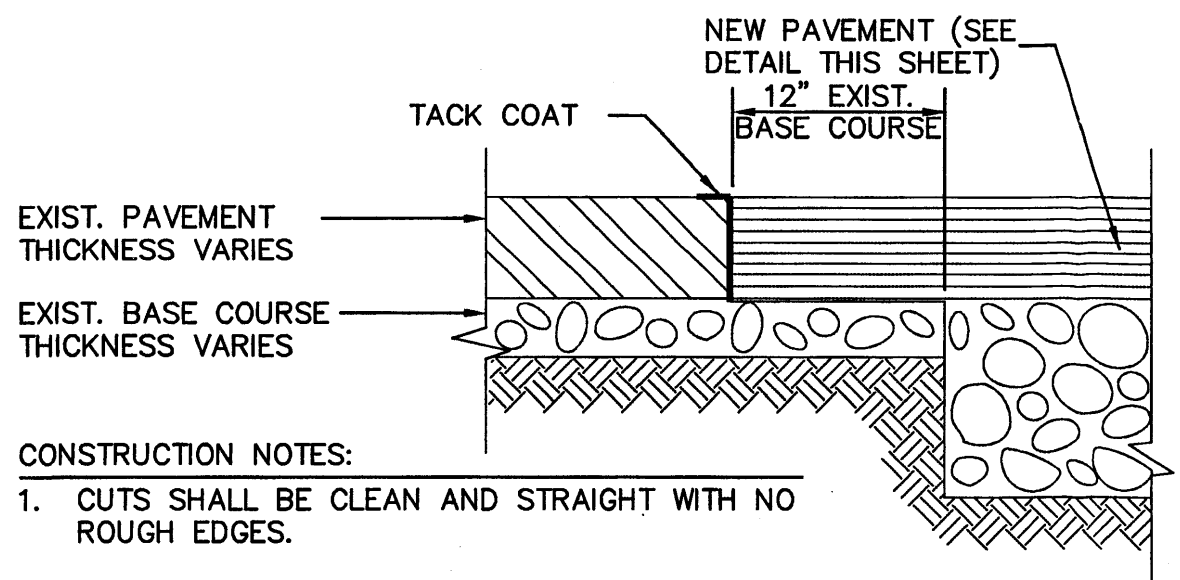
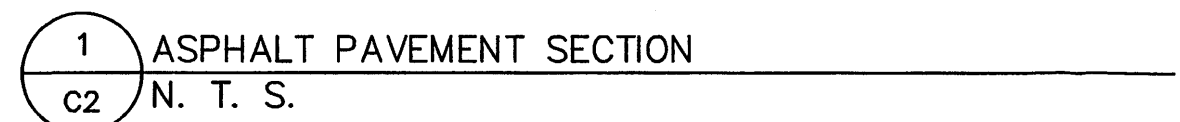
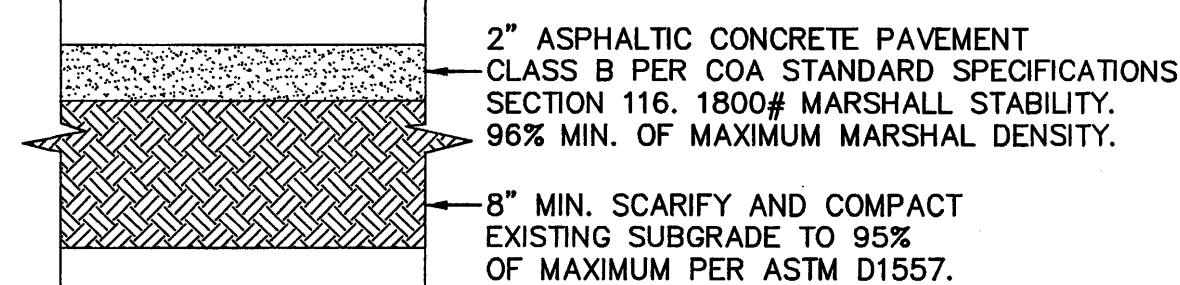
THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED BY THE
OWNER AS SUCH.

BENCH MARK:

ACS MONUMENT 'NM-47-10', LOCATED IN THE CENTER MEDIAN OF SECOND STREET 9.5' NORTH OF THE NORTHERN MEDIAN NOSE AT THE INTERSECTION WITH MESCALERO ROAD, ELEVATION = 4967.496.

FLOOD ZONE:

THE PROPERTY SHOWN HEREON DOES NOT LIE WITHIN ANY DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, COMMUNITY-PANEL NO. 35001C0332 D; EFFECTIVE DATE SEPTEMBER 20, 1996 AS SHOWN ON THIS SHEET.



CONSTRUCTION NOTES:

1. CUTS SHALL BE CLEAN AND STRAIGHT WITH NO ROUGH EDGES.
2. IRREGULAR BREAKAGE SHALL BE REMOVED AND REPAIRED.
3. LAY NEW ASPHALT PAVING ON EXIST. BASE COURSE AT JOINT.



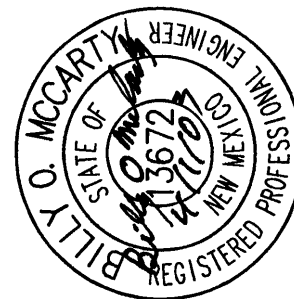
GRADING AND DRAINAGE

PLAN
PADILLA DISTRIBUTING COMPANY
124 MESCALERO RD, NW
ALBUQUERQUE, NM 87107

LEGAL DESCRIPTION:

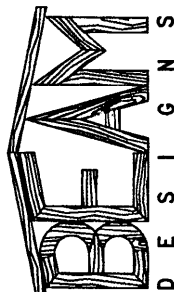
LOT NUMBERED FOURTEEN-A (14-A) OF THE PLAT ENTITLED, "CAMPBELL'S ADDITION NO. 1," AS THE SAME AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 4, 1990. IN VOL. 90C. FOL. 100.

REVISION	DATE	DESCRIPTION



B&A
BUILDING
ENGINEERING
AND
MUNICIPAL
DESIGNS

855 POLARIS BLVD., SE
RIO RANCHO, NJ 07124
PHONE (505) 896-0391
FAX (505) 994-3952
beamdesigns@qwest.net



GENERAL CONSTRUCTION NOTES

GENERAL

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, INCLUDING A TOP SOIL DISTURBANCE PERMIT, PRIOR TO START OF CONSTRUCTION.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

REFERENCES MADE TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS REFER TO THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987 EDITION AS PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORK ASSOCIATION.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THESE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE PLANS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER IN A TIMELY MANNER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY, INCLUDING ENGINEERING DESIGN FEES.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE. IF THE CONTRACTOR DESIRES TO REMOVE FENCING TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN PERMISSION BEFORE THE FENCE IS REMOVED. CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION AT THE EARLIEST OPPORTUNITY. WHILE ANY FENCING IS REMOVED, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS RESTORED.

WORK WITHIN ADJACENT RIGHT-OF-WAY

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN ADJACENT RIGHT-OF-WAYS OR WITHIN PROPERTY NOT OWNED BY THE OWNER OF THE PROJECT SITE, THE CONTRACTOR SHALL ASSURE THAT ALL PERMITS AND PERMISSIONS REQUIRED HAVE BEEN OBTAINED IN WRITING.

SURVEY MONUMENTS, PROPERTY CORNERS, BENCHMARKS

THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST SEVEN DAYS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY THAT COULD DAMAGE OR DISPLACE SURVEY MONUMENTS, PROPERTY CORNERS, OR PROJECT BENCHMARKS SO THESE ITEMS MAY BE RELOCATED.

ANY SURVEY MONUMENTS, PROPERTY CORNERS, OR BENCHMARKS THAT ARE NOT IDENTIFIED FOR RELOCATION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT. RELOCATION OR REPLACEMENT OF THESE ITEMS SHALL BE DONE BY THE OWNER'S SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

DIMENSIONS

ALL DIMENSIONS TO CURBS ARE TO THE FLOWLINE UNLESS OTHERWISE NOTED.

ALL STATIONING IS TO THE CENTERLINE OF THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

ALL SLOPES AND GRADES ARE IN PERCENT UNLESS OTHERWISE NOTED.

CURB ELEVATIONS ARE SHOWN AT THE FLOW LINE UNLESS OTHERWISE NOTED. SEE THE DETAIL SHEET TO DETERMINE THE CURB HEIGHT ABOVE FLOW LINE.

SOILS

UNLESS OTHERWISE SPECIFIED, SUBGRADE, ENGINEERED FILL, AND STRUCTURAL FILL SHALL BE COMPACTED TO THE FOLLOWING SPECIFICATIONS OF THE ASTM D-1557 MAXIMUM DRY DENSITY.

MATERIAL / LOCATION	PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95%
SUBBASE FOR SLAB SUPPORT	95%
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROADWAY PAVEMENT	95%
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90%
ROADWAY PAVEMENT SUBGRADE	95%
SIDEWALK SUBGRADE	90%
CURB AND GUTTER SUBGRADE	95%

PAVEMENT

WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, CUT EXISTING PAVEMENT EDGE TO A NEAT, STRAIGHT LINE AS NECESSARY TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVEMENT ELEVATION TO EXISTING.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION, AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE BEFORE PAVING.

WHEN SIDEWALK OR CURB AND GUTTER IS REMOVED, IT SHALL BE REMOVED TO EXISTING CONSTRUCTION JOINTS. CUTTING OR BREAKING SHALL NOT BE ALLOWED.

UTILITIES

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. THIS INFORMATION MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1, THROUGH 14-8, NMSA 1978.

THE CONTRACTOR SHALL CONTACT THE STATEWIDE UTILITY LOCATOR SERVICE AT 1-800-321-2537 AT LEAST TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION. AFTER THE UTILITIES ARE SPOTTED, THE CONTRACTOR SHALL EXPOSE ALL PERTINENT UTILITIES TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION. IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY.

THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CARELESS CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

EXISTING VALVES SHALL ONLY BE OPERATED BY THE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF TWO WORKING DAYS BEFORE ANY VALVE, NEW OR EXISTING, NEEDS TO BE OPERATED.

THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE OWNER AND AFFECTED UTILITY COMPANY A MINIMUM OF THREE WORKING DAYS BEFORE THE INTERRUPTION.

THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET OF PLANS AND PROMPTLY LOCATE ALL UTILITIES, EXITING OR NEW, IN THEIR CORRECT LOCATION, HORIZONTAL AND VERTICAL. THIS RECORD SET OF DRAWINGS SHALL BE MAINTAINED ON THE PROJECT SITE AND SHALL BE AVAILABLE TO THE OWNER AND ENGINEER AT ANY TIME DURING CONSTRUCTION.

EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PREPARE ANY DUST CONTROL OR EROSION CONTROL PERMITS REQUIRED FROM THE REGULATORY AGENCIES.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITH THE PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY BY CONSTRUCTION OF TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AND WETTING THE SOIL TO PREVENT IT FROM BLOWING.

WATERING, AS REQUIRED FOR CONSTRUCTION DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH RECLAMATION SEEDING.

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING IT TO AN APPROVED DISPOSAL SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC., SHALL BE APPROPRIATELY DISPOSED OF OFFSET AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC., WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO EMERGENCY RESPONSE AT 1-800-219-6157.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.

ACCESSIBLE FACILITIES

ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE FIRM, SLIDE RESISTANT AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS, PARAGRAPH 4.5.

LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.

THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".

TRAFFIC CONTROL

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF "A MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION. PRIOR TO CONSTRUCTION, TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE GOVERNING AUTHORITY.

ABBREVIATIONS

BLDG = BUILDING	ELEC = ELECTRIC	INV = INVERT ELEVATION	STD = STANDARD
BM = BENCHMARK	ELEV = ELEVATION	LF = LINEAL FEET	SW = SIDEWALK
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DRAINAGE REPORT

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FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0332 D, DATED SEPTEMBER 20, 1996 IS NOT WITHIN ANY DESIGNATED 100-YEAR FLOODPLAIN. A PORTION OF THIS PANEL WITH THE SITE DESIGNATED ON IT IN INCLUDED ON SHEET C2. DOWNSTREAM STREET. CAPACITY WITHIN MESCALERO ROAD IS LIMITED AND IS WITHIN A DESIGNATED FLOODPLAIN (ZONE AO, DEPTH 1').

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

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THE SITE IS DEVELOPED AS DESCRIBED ABOVE IN "LOCATION AND DESCRIPTION." THE EASTERN PORTION OF THE SITE HAS BEEN DEVELOPED AND DISCHARGES THROUGH A 4" PIPE INTO MESCALERO ROAD. THE PORTION OF THE SITE THAT WILL BE DEVELOPED WITH AN ASPHALT PARKING LOT IS VERY FLAT BUT WILL DISCHARGE TO MESCALERO ROAD. THE SITE IS DEVELOPED WITH PERIMETER FENCES THAT PREVENT OFFSITE RUNOFF FROM ENTERING THE SITE. THEREFORE, NO OFFSITE BASINS HAVE BEEN EVALUATED IN THIS STUDY.

DEVELOPED CONDITION

TWO CONDITIONS HAVE BEEN CONSIDERED FOR THIS LOT. THE INITIAL CONSTRUCTION WILL INCLUDE THE ADDITIONAL ASPHALT PARKING AREA. THIS 11,800 SQUARE FOOT AREA WAS INCLUDED AS THE TYPE 'C' LAND TREATMENT FOR EXISTING CONDITIONS FOR GRAVEL PARKING. THEN IT WAS ANALYZED AS TYPE 'D' LAND TREATMENT FOR THE INTERIM CONDITION. THIS GENERATES AN ADDITIONAL 992 CUBIC FEET OF RUNOFF VOLUME FOR THE 100-YEAR, 6-HOUR STORM. THEN THE ENTIRE SITE WAS EVALUATED FOR 90% IMPERVIOUS TO ACCOUNT FOR FUTURE DEVELOPMENT WITHIN THE SITE. THIS IS SHOWN AS PROPOSED CONDITIONS IN THE "100-YEAR HYDROLOGIC CALCULATIONS" BELOW. THE 90% IMPERVIOUS CONDITION SHOWS A 6-HOUR VOLUME INCREASE OF 1,488 CUBIC FEET. IN A MEETING WITH COA HYDROLOGY DEPARTMENT, IT WAS DETERMINED THAT THIS INCREASE IN VOLUME IS INSIGNIFICANT COMPARED TO THE OVERALL FLOODPLAIN VOLUME. THE NEW ASPHALT PARKING LOT HAS BEEN DESIGNED FOR FREE DISCHARGE TO MESCALERO ROAD VIA A CONCRETE VALLEY GUTTER AND SIDEWALK CULVERT. THEREFORE, THIS SITE CAN BE DEVELOPED, ACCORDING TO THIS PLAN, WITHOUT HAVING AN ADVERSE EFFECT ON THE DOWNSTREAM PROPERTY AND FLOODPLAIN.

100-YEAR HYDROLOGIC CALCULATIONS																					
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10 day) (acre-ft)	V(10 day) (cu-ft)	Q (cfs)										
		A (%)	B (%)	C (%)	D (%)																
EXISTING CONDITIONS																					
SITE	0.8628	0.00	2.00	56.00	42.00	1.54	0.11	4,820	0.16	6,924	3.26										
INTERIM CONDITIONS																					
SITE	0.8628	0.00	2.00	24.00	74.00	1.86	0.13	5,812	0.22	9,520	3.69										
PROPOSED CONDITIONS																					
SITE	0.8628	0.00	2.00	8.00	90.00	2.01	0.14	6,308	0.25	10,818	3.91										
<div>EXCESS PRECIP. 0.53 0.78 1.13 2.12 E_i (in)</div> <div>PEAK DISCHARGE 1.56 2.28 3.14 4.7 Q_p (cfs)</div> <div><div>WEIGHTED E (in) = (E_a)(%A) + (E_b)(%B) + (E_c)(%C) + (E_d)(%D)</div><div>V_{6hr} (acre-ft) = (WEIGHTED E)(AREA)/12</div><div>V_{10day} (acre-ft) = V_{6hr} + (A_a)(P_{10day} - P_{6hr})/12</div><div>Q (cfs) = (Q_{pa})(A_a) + (Q_{pb})(A_b) + (Q_{pc})(A_c) + (Q_{pd})(A_d)</div></div>																					
																		ZONE =		2	
																		P _{6hr} (in.) =		2.35	
																		P _{24hr} (in.) =		2.75	
																		P _{10day} (in.) =		3.95	

GENERAL NOTES AND DRAINAGE REPORT

LOT NUMBERED FOURTEEN-A (14-A) OF THE PLAT ENTITLED, "CAMPBELL'S ADDITION NO. 1" AS THE SAME AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 4, 1990, IN VOL. 90C, FOL. 100.

LEGAL DESCRIPTION:

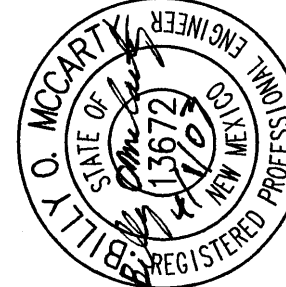
SHEET C1 of 2

REVISION

DATE

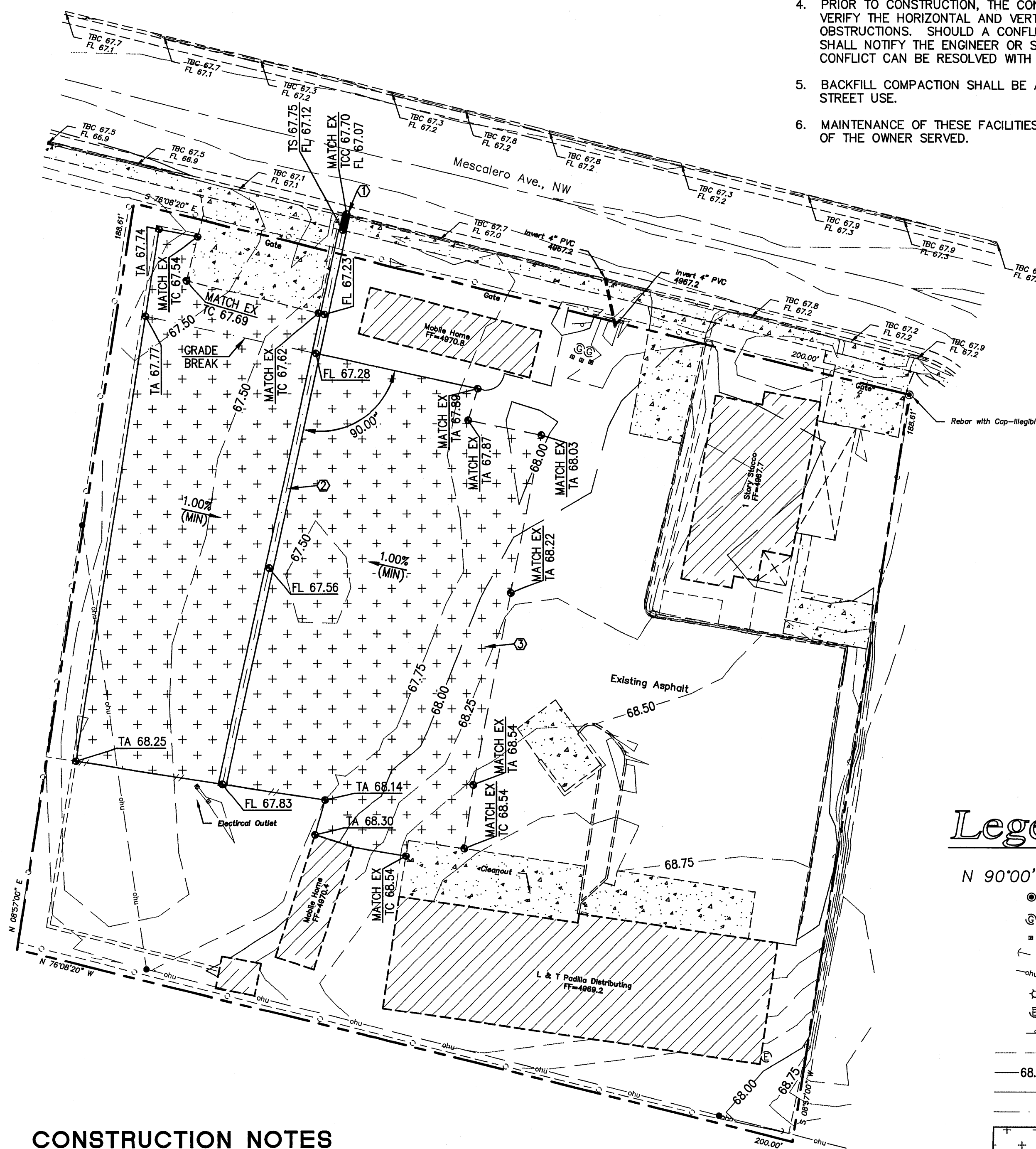
DESCRIPTION

FILE NAME: PADILLA_001_03/28/03



805 POLARIS BLVD., SE
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BEAM
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MANUAL
DESIGNS

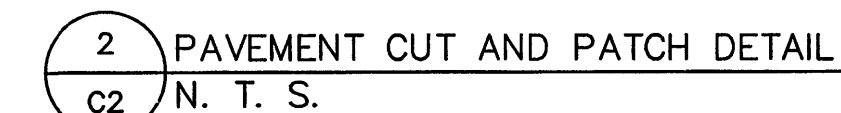
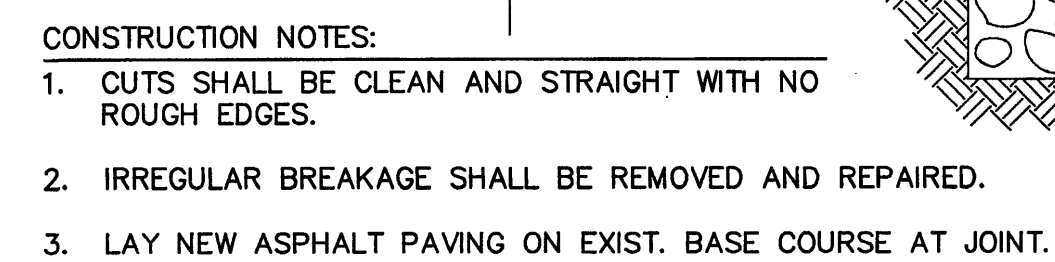
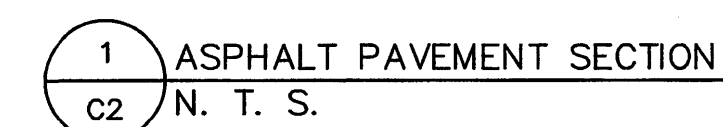


1. 12" SIDEWALK CULVERT PER DWG 2236.
2. 142 LF ALLEY GUTTER AT 0.50% PER DWG 2415.
3. ASPHALT PAVEMENT PER DETAIL 1/C2.

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED WITHIN THE CITY RIGHT-OF-WAY SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.
3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER SERVED.

APPROVALS	ENGINEERS	DATE	
A.C.E./DESIGN			
INSPECTOR			
A.C.E./FIELD			

THE PROPERTY SHOWN HEREON DOES NOT LIE WITHIN ANY DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, COMMUNITY-PANEL NO. 35001C0322 D) EFFECTIVE DATE SEPTEMBER 20, 1996 AS SHOWN ON THIS SHEET.



BEA **D E S I G N S**

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