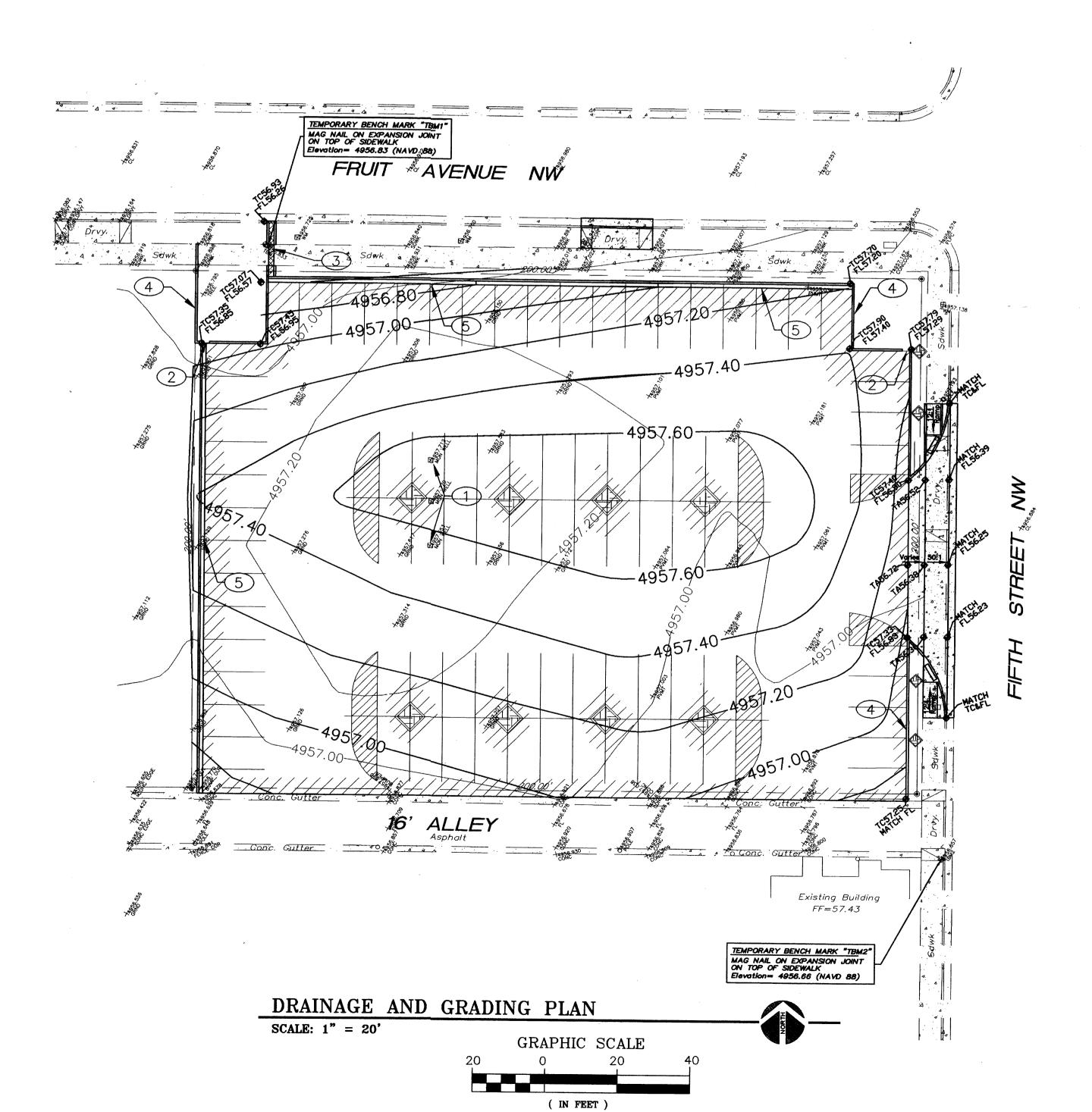


VICINITY MAP J-14 SCALE: N.T.S.



1 inch = 20 ft.

THE FOLLOWING ITEMS CONCERN THE RECONSTRUCTION OF AN EXISTING PARKING LOT AT THE SOUTHWEST CORNER OF FIFTH STREET NW AND FRUIT AVENUE NW, ALBUQUERQUE, NEW MEXICO. THE FOLLOWING INFORMATION CONTAINED HEREON IS AS FOLLOWS:

- . DRAINAGE CALCULATIONS
- 2. VICINITY MAP J-14

3. FLOOD INSURANCE RATE MAP 35001 C0334D

EXITING CONDITIONS AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE SOUTWEST CORNER OF FIFTH STREET NW AND FRUIT AVENUE NW. THE PARCEL'S LEGAL DESCRIPTION IS LOTS 448-455, BLOCK 14, PERFECTO ARMIJO & BRO'S ADDITION, BERNALILLO COUNTY, NEW MEXICO. THE PROPERTY IS BOUNDED ON THE SOUTH BY A CITY IMPROVED ALLEY, ON THE EAST BY FIFTH STREET NW, ON THE NORTH BY FRUIT AVENUE NW AND ON THE WEST BY A GRAVELLED PARKING LOT. THIS SITE CONTAINS APPROXIMATELY 0.65 ACRES AND THE EAST HALF OF THE LOT IS CURRENTLY PAVED WITH DETERIORATED ASPHALT AND THE WESTERN HALF WITH GRAVEL.

THE SOUTH HALF OF THE EXISTING PARKING LOT DRAINS TO THE SOUTH AND INTO THE EXISTING PAVED ALLEY WHICH IT THEN WILL FLOW WEST INTO SIXTH STREET NW. THE NORTH HALF CURRENTLY DRAINS TOWARDS FRUIT AVENUE AND FLOWS WEST ON FRUIT AVENUE TOWARDS SIXTH STREET NW.

THE SITE IS CURRENTLY NOT IN A DESIGNATED 100-YEAR FLOODPLAIN PER FIRM MAP 35001 C0334D

PROPOSED CONDITIONS

AS SHOWN BY THE PLAN THE PROPOSAL IS TO REMOVE THE EXISTING ASPHALT PAVING AND GRAVEL AND ADD ADDITIONAL SUBGRADE MATERIAL ALONG WITH NEW ASPHALT PAVING IN ORDER TO ALLOW THE SITE TO DRAIN WHILE MINIMIZING BIRD BATHS ON THE SITE. THE PLAN IS TO CONTINUE TO DRAIN THE SOUTH HALF OF THE NEW PARKING LOT INTO THE EXISTING PAVED ALLEY WHICH IT THEN WILL FLOW WEST INTO SIXTH STREET NW. THE NORTH HAVE OF THE NEW PARKING LOT WILL CONTINUE TO DRAIN TOWARDS FRUIT AVENUE NW AND WILL FLOW WEST ON FRUIT AVENUE TOWARDS SIXTH STREET

THE PLAN ALSO SHOWS PROPOSED ELEVATIONS AND GRADES REQUIRED TO PROPERLY GRADE THE SIDE TO NEW TO THE EXISTING ALLEY AND STREET.

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

THERE ARE EXISTING STORM DRAINS WITHIN THE PROJECT SITE, IT IS THE INTENT OF THIS PLAN TO MAINTAIN THE SAME DRAINAGE PATTERNS AND SINCE THIS IS A REPAVING PROJECT THERE SHOULD BE NO IMPACT TO THE DOWNSTREAM CAPACITY OF EXISTING STORM DRAIN.

A REVIEW OF THE TOPOGRAPHIC SURVEY AND A FIELD VISIT TO THE SITE INDICATES THAT NO OFFSITE FLOWS ENTER THIS SITE.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE SILT FENCES AROUND THE PROPOSED CONSTRUCTION AREAS TO MINIMIZE SEDIMENT INTO THE PUBLIC ROADWAYS OR ALLEYS DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN.

INCLUDING AMENDMENT No. 1.

LOCATION OF EXISTING UTILITIES.

SECTION

GENERAL NOTES NOTICE TO CONTRACTORS

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER

HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF

2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST

CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE

PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND

OR THE OWNER SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT

CONSTRUCTION BARRICADING UNTIL PROJECT HAS BEEN COMPLETED.

5. ADJUST ALL VALVE CANS AND SEWER LINE CLEANOUTS TO FINAL GRADE.

LEGEND

REPLACEMENT, SEE PAVING SECTION.

EXISTING GRADE ELEVATION

PROPOSED FLOWLINE GRADE

PROPOSED TOP OF CURB

LIMITS OF ASPHALT PAVING REMOVAL AND

LIMITS OF CONCRETE PAVING, SEE PAVING

VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTION.

SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER

CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL

ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7,

CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR

RAINAGE CALCULATIONS PRECIPITATION ZONE = 2

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

E = 0.78 INCHES LANDSCAPED "B"

E = 1.13 INCHES COMPACTED SOIL "C"

E = 2.12 INCHES IMPERVIOUS AREA 'D"

EXISTING CONDITIONS: EXISTING AREA OF DEVELOPMENT = 0.65ACRES

TREATMENT "C" AREA = 0.13ACRES (GRAVEL TREATMENT) TREATMENT "D" AREA = 0.13ACRES (ASPHALT TREATMENT) TREATMENT AREA(ACRES) 0.13

Q(EXISTING-6HR) = $(3.14 \times 0.13) + (4.70 \times 0.13) = 1.01CFS$ (6HR) EXISTING ONSITE FLOW TO FRUIT AVENUE NW $V(EXISTING-6HR) = ((1.13 \times 0.13) + (2.12 \times 0.13)) / 12)$ = 0.04AC-FT EXISTING ONSITE VOLUME TO FRUIT AVENUE NW

TREATMENT "C" ARE \ = 0.20ACRES (GRAVEL TREATMENT) TREATMENT "D" AREA = 0.20ACRES (ASPHALT TREATMENT) TREATMENT AREA(ACRES)

0.20

Q(EXISTING-6HR) = $(3.14 \times 0.20) + (4.70 \times 0.20) = 1.57$ CFS (6HR) EXISTING ONSITE FLOW TO PAVED ALLEY $V(EXISTING-6HR) = {(1.13 \times 0.20)+(2.12 \times 0.20)}/12$ = 0.05AC-FT EXISTING ONSITE

VOLUME TO FRUIT AVENUE NW

PROPOSED CONDITIONS ONSITE: PROPOSED AREA OF DEVELOPMENT = 0.65ACRES

TREATMENT "D" ARF . = 0.29ACRES (ASPHALT TREATMENT) TREATMENT AREA(ACRES)

Q(EXISTING-6HR) = $(4.70 \times 0.29) = 1.35$ CFS (6HR) PROPOSED ONSITE FLOW TO FRUIT AVENUE NW $V(EXISTING-6HR) = (2.12 \times 0.29)/12$

= 0.05AC-FT EXISTING ONSITE VOLUME TO FRUIT AVENUE NW

TREATMENT "D" AREA = 0.36ACRES (ASPHALT TREATMENT)

Q(EXISTING-6HR) = $(4.70 \times 0.36) = 1.71$ CFS (6HR) PROPOSED ONSITE FLOW TO PAVED ALLEY $V(EXISTING-6HR) = (2.12 \times 0.36)/12$

= 0.06AC-FT EXISTING ONSITE VOLUME TO FRUIT AVENUE NW

DIFFERENCE BETWEEN EXISTING CONDITIONS AND THIS PROPOSED DEVELOPMENT: **NORTH HALF**

Q(INCREASE-6HR) = 1.35 - 1.01CFS = 0.34CFS INCREASE V(INCREASE-6HR) = 0.05 - 0.04AC-FT = 0.01AC-FT INCREASE

Q(INCREASE-6HR) = 1.71 - 1.571CFS = 0.14CFS INCREASE

V(INCREASE-6HR) = 0.06 - 0.05AC-FT = 0.01AC-FT INCREASE BASED ON THESE INCREASE IT APPEARS BY RESTORING THE EXISTING GRAVEL AND ASPHALT WITH NEW ASPHALT PAVING THE INCREASE IN FLOWS ARE NEGLIGIBLE AND SHOULD NOT IMPACT DOWNSTREAM CAPACITY.

SIZE RUNDOWN AND SIDEWALK CULVERT AT NORTHWEST CORNER OF PARKING LOT: Q(PROPOSED-6HR) = 1.35CFS

CHECK WEIR CAPACITY: Q(CAPACITY) = $C \times L \times H^{**}\frac{3}{2}$

 $L = Q/C \times h^{**\frac{3}{7}}$ Q = 1.35CFS, H = 0.5FEET. C=3

 $L = 1.35/(3 \times 0.5^{**}\frac{3}{2}) = 1.27'$, USE 18" WIDE SIDEWALK CULVERT

CONSTRUCTION NOTES:

- (1) MATCH EXISTING TOP OF MONITORING WELLS WITH NEW TOP OF ASPHALT GRADE.
- 2 PROVIDE 2' WIDE CURB OPENING.
- 3 18" WIDE DRAINAGE SIDEWALK CULVERT FROM NORTH FACE OF CURB TO SOUTH FACE OF CURB WITH STEEL PLATE TOP AT SIDEWALK PER CITY STD. DWG. 2236 (SEE S.D. #19 FOR SIDEWALK CULVERT NOTICE TO CONTRACTOR FOR ADDITIONAL REQUIREMENTS...
- (4) 6" HEADER CURB PER CITY STD. DWG. 2415B.
- 5 6" MEDIAN CURB AND GUTTER PER CITY STD. DWG. 2415B.

S.O. #19 FOR SIDEWALK CULVERT

NOTICE TO CONTRACTOR

Drainage Facilities within City Right-of-Way Notice to Contractor 1. An excavation permit will be required before beginning any work within City Right-

2. 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. 3. Two working days prior to any excavation, the contractor must contact the line locating service, New Mexico One Call 260-1990, (NM one call "811") for the location of existing utilities.

4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay. 5. Backfill compaction shall be according to traffic/street use.

6. Maintenance of the facility shall be the responsibility of the owner of the property being served.

7. Work on arterial streets shall be performed on a 24-hour basis.

APPROVALS NAME DATE A.C.E DESIGN INSPECTOR A.C.E. FIELD

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

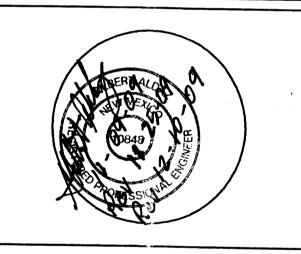
APPLIED ENGINEERING AND SURVEYING, INC. CIVIL ENGINEERING, LANDES PLANNING AND SURVEYING

Facsimile: (505) 237—8164

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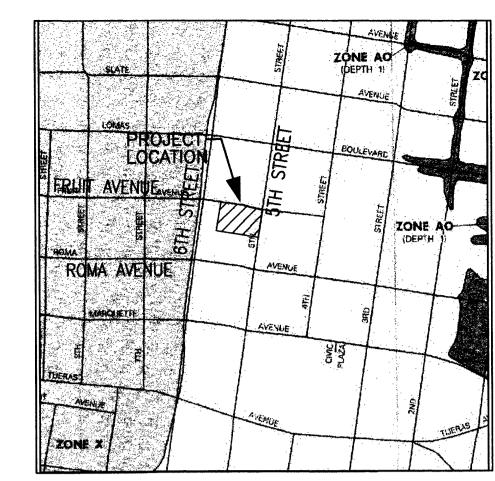
5th and FRUIT PARKING LOT ALBUQUERQUE NEW MEXICO

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OJECT NUMBER:	090800
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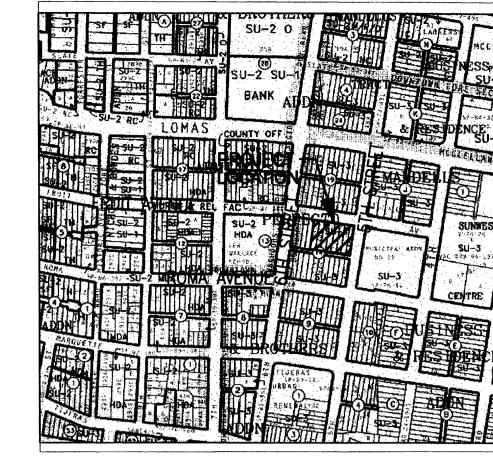
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IMPROVEMENTS

of



FIRM MAP 35001C0334D

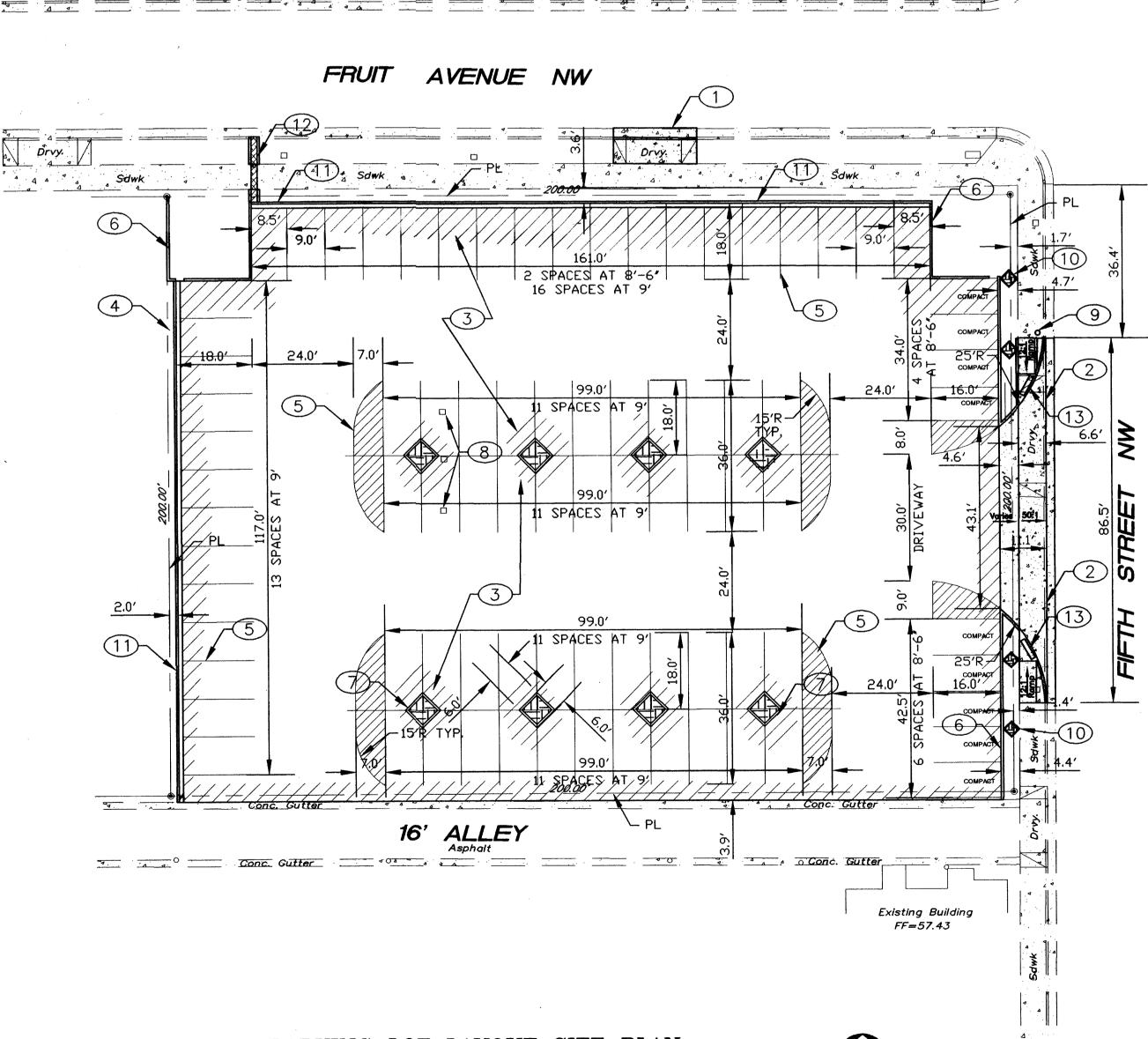
SCALE: N.T.S.



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VICINITY MAP J-14
SCALE: N.T.S.





PARKING LOT LAYOUT SITE PLAN

SCALE: 1" = 20'



CONSTRUCTION NOTES:

- REMOVE 19.67 FEET OF EXISTING DRIVEWAY AND REPLACE WITH 19.67 FEET OF STANDARD CURB AND GUTTER PER CITY STANDARD DRAWING 2415A AND INSTALL 19.67 FEET OF 6' WIDE SIDEWALK PER DETAILS SHOWN ON COA STD. DWG. 2430.
- 2 REMOVE 29 FEET OF EXISTING DRIVEWAY AND REPLACE WITH 30 FOOT WIDE PAVING PRIVATE ENTRANCE WITH HANDICAP RAMPS PER DETAIL AS SHOWN ON COA STD. DWG. 2426.
- 3 NEW ASPHALT PAVING LIMITS.
- 4 NEW 6' LONG CONCRETE BUMPERS WITH 12" PINS FOR STAKING IN PLACE.
- (5) 4" SOLID WHITE STRIPES.
- 6 6" HEADER CURB PER CITY STD. DWG. 2415B.
- 7 6'X6' PLANTER AREAS WITH 6" HEADER CURB PER CITY STD. DWG. 2415B.
- (8) EXISTING MONITORING WELLS. TO REMAIN.
- 9 EXISTING LIGHT POLE TO REMAIN.
- 10 2' X 2' PLANTER AREAS WITH 6" HEADER CURB PER CITY STD. DWG. 2415.
- 11) 6" MEDIAN CUR AND GUTTER PER CITY STD. DWG. 2415B.
- 12 18" WIDE DRAINAGE SIDEWALK CULVERT FROM CURB TO CURB WITH STEEL PLATE TOP AT SIDEWALK PER CITY STD. DWG: 2236.
- 13 INSTALL TRUNCATED DOMES AT TWO HANDICAP RAMPS AS FOLLOWS:
 - * DESIGN PER ADA GUIDELINE
 - * SUBMIT SPECT TO CITY CONSTRUCTION PRIOR TO COSNTRUCTION.

GENERAL NOTES NOTICE TO CONTRACTORS

- 1. 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 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7, INCLUDING AMENDMENT No. 1.
- 2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
- 3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE OWNER SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT
- 4. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION BARRICADING UNTIL PROJECT HAS BEEN COMPLETED.
- 5. ADJUST ALL VALVE CANS AND SEWER LINE CLEANOUTS TO FINAL GRADE.

LEGEND

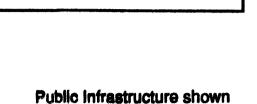
DWGS, FOR REQUIREMENTS

REPLACEMENT

LIMITS OF ASPHALT PAVING REMOVAL AND

LIMITS OF CONCRETE PAVING, SEE COA STD.





on these plans for information only and not part of approval. Separate DRC/Permit approval

and Work Order required.

ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.

APPLIED ENGINEERING AND SURVEYING, INC.

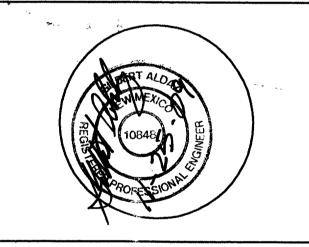
CIVIL ENGINEERING, LANDES PLANNING AND SURVEYING

1605 Blair Drive NE Albuquerque, New Mexico 8711 Office: (505) 480-8125 Facsimile: (505) 237-8164 email: galdaz47@yahoo.com

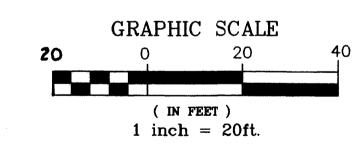
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5th and FRUIT PARKING LOT ALBUQUERQUE, NEW MEXICO



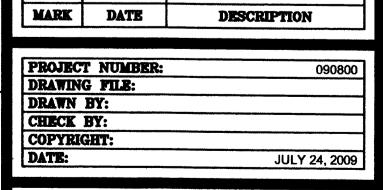
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HYDROLOGY SECTION

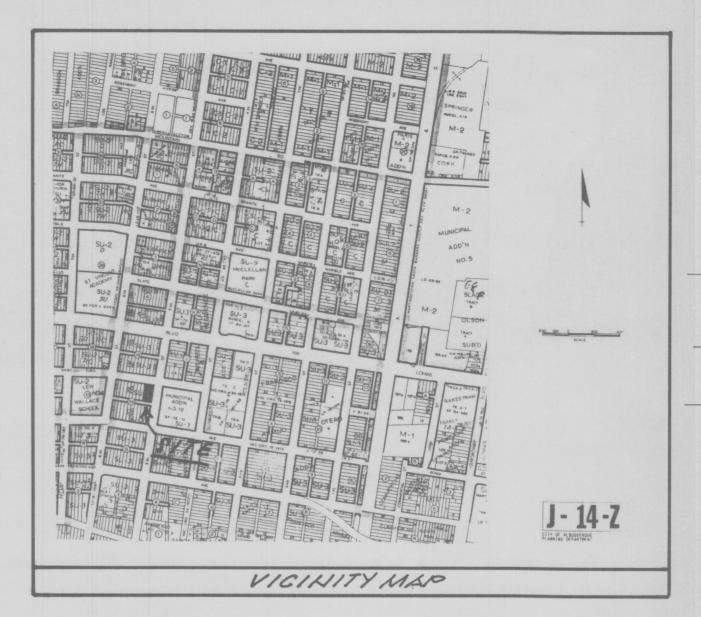
UTILITY PRECAUTIONS

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



PARKING LAYOUT SITE PLAN

SHEET NUMBER



CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXIST-ING 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 PRO-

EROSION CONTROL MEASURES:

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

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS RE-QUIRED 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 THROUGHLY 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.
- 4.) TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

NOTICE TO CONTRACTOR:

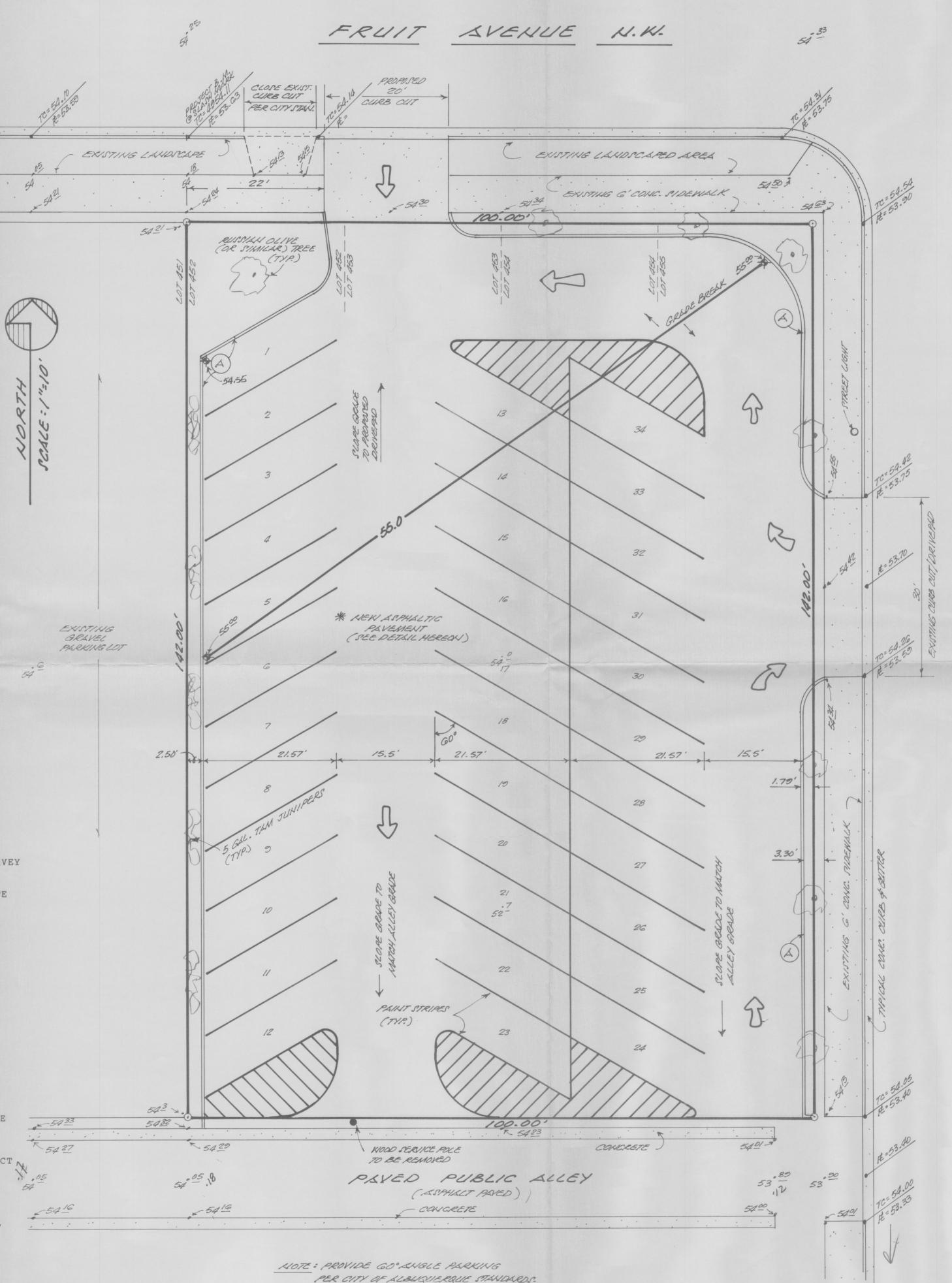
- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, 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.
- 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 SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR THE PROJECT.

LEGAL DESCRIPTION:

LOTS 452,453,454, AND 455, BLOCK 14, PERFECTO ARMIJO AND BROTHERS ADDITION, ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE:

ACS STATION "4-J14", M.S.L.D. ELEVATION = 4954.015; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.



DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED AT THE SOUTHWEST INTERSECTION OF 5 th STREET N.W. AND FRUIT AVENUE N.W., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "J-14-Z").

THE SUBJECT PROJECT SITE, (1.) DOES NOT LIE WITHIN A DESIGNATED FLOOD PLAIN, (F.E.M.A. PANEL 28 OF 50). (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY AT THE PRESENT TIME, (4.) DOES NOT CONTRIBUTE OR ACCEPTS OFFSITE FLOWS.

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF THE DEVELOPED SURFACE FLOWS OF THE PROPOSED IMPROVEMENTS WILL HAVE NO ADVERSE AFFECT TO DOWNSTREAM PROPERTIES.

DRAINAGE CALCULATIONS: (RATIONAL METHOD = Q100 = CIA)

SITE AREA = 100.0' X 142.0' = 14,200.0 SQ. FT. = 0.33 ACRE

RAINFALL, R_6 (100-YR. - 6 HR.) = 2.3 INCHES

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

RAINFALL INTENSITY, "I" = $2.3 \times 6.84 \times (10)^{-0.51} = 4.86 \text{ in./hr.}$

EXISTING CONDITIONS: (VACANT LAND)

14,200.00 SQ. FT. = $C_u = \frac{14,200.0 \times 0.40}{14,200.0} = 0.40$

 $Q_{100} = 0.40 \text{ X } 4.86 \text{ X } 0.33 = 0.64 \text{ CFS}$

PROPOSED DEVELOPED CONDITIONS:

PROPOSED PAVED AREA = 13,000.00 SQ. FT.

PROPOSED LANDSCAPED AREA = 1,200.00 SQ. FT.

 $C_L = \frac{1,200.0 \times 0.25}{14,200.0} = 0.02$

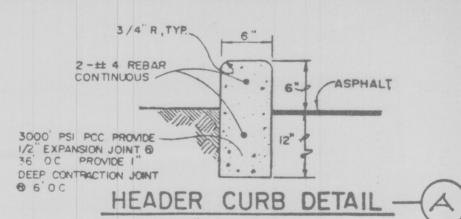
Q₁₀₀ = 0.89 X 4.86 X 0.33 = <u>1.43 CFS</u> *** INCREASE = 0.79 CFS

* REQUIRED LANDSCAPED AREA = 1,420.0 SQ. FT. PROVIDED LANDSCAPED AREA = 1,200.0 SQ. FT.

- 2" ASPHALTIC CONCRETE SURFACE COURSE, 1500 # STABILITY

> - B" SUBGRADE COMPACTED a 95% ASTM. D-1557

TYPICAL PAVEMENT SECTION SCALE 1" = 1'-0"



LEGEND:

T.C .= 54.42 = TOP OF CURB ELEYSTION

= 53.75 = CURB FLOW LINE ELEVISTION * EXISTING OR PROPOSED CONCRETE

---- 53 ---- = EXISTING CONTOUR -53 - PROPOSED CONTOUR

-x---- = EXISTING FENCE

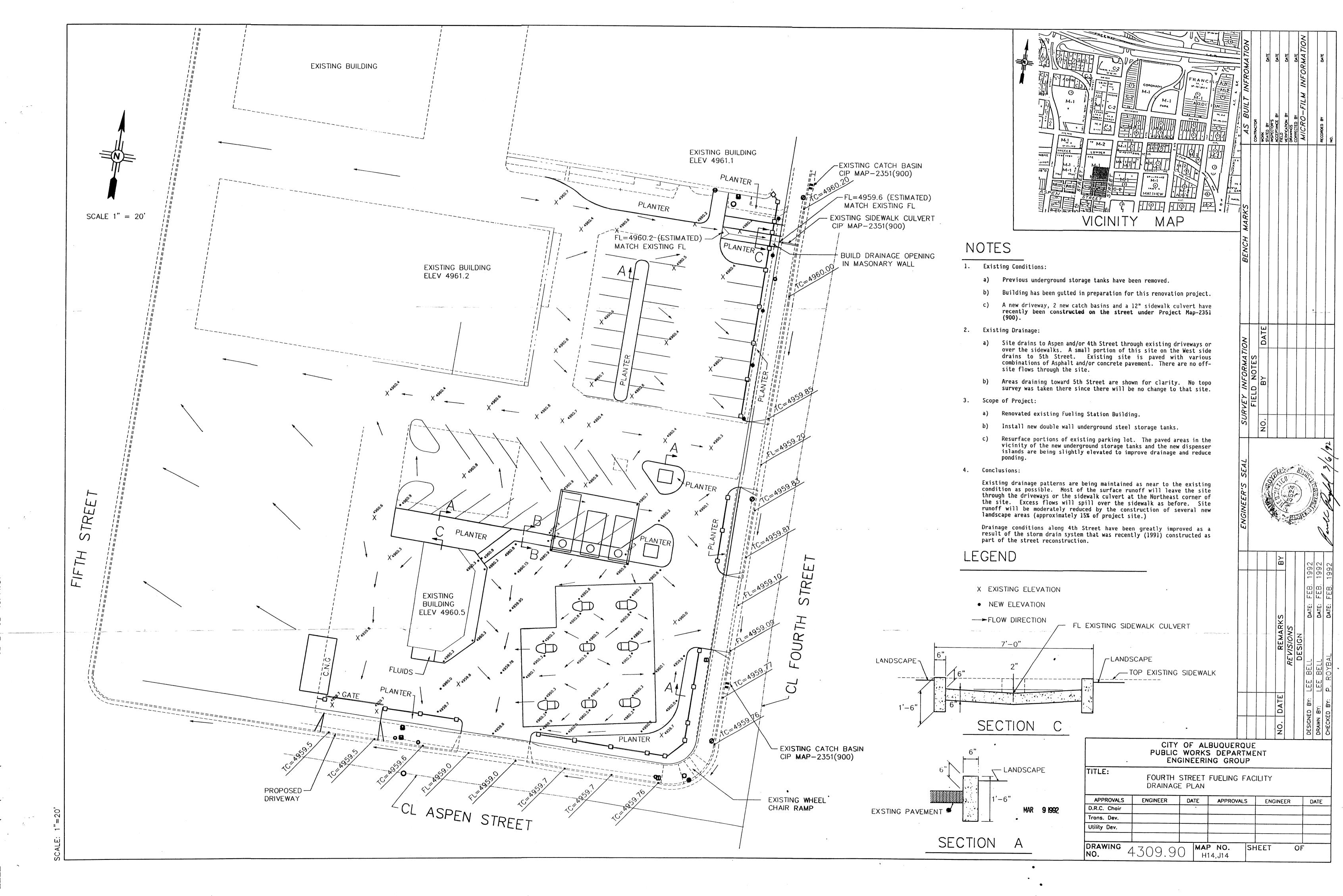
= PROPOSED SPOT ELEVATION = PROPOSED LIMITS OF HEW PAVING



GRADING AND DRAINISGE PLAN FOR PROPOSED PARKING LOT FOR

MADRID BAIL BONDS 5TH STREET N.W.

ALBUQUERQUE, NEW MEXICO SEPTEMBER, 1992



TIME: 02-24-92

M: \CAD\2486 03\M: DRAINAG