

CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT

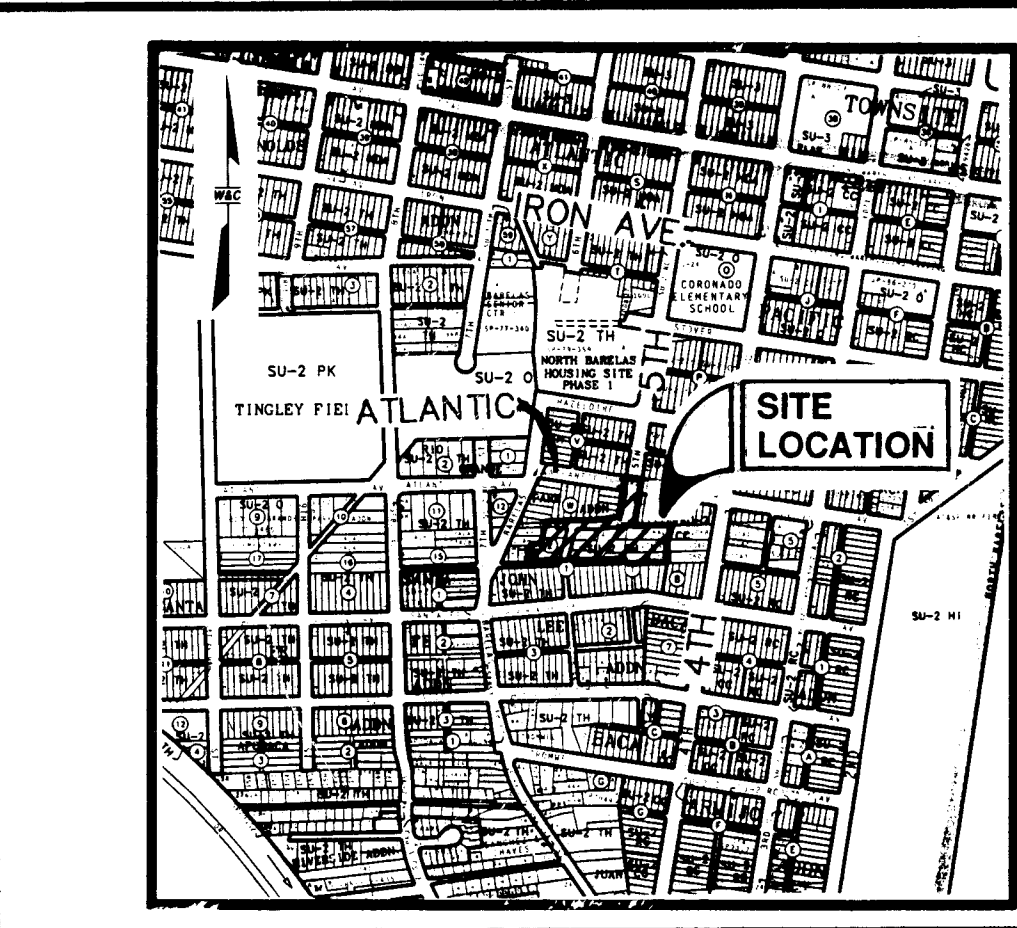
CONSTRUCTION PLANS
FOR

BARELAS HOMES

PUBLIC
INFRASTRUCTURE IMPROVEMENTS

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-2A	PLAT
3	FINAL GRADING & DRAINAGE PLAN
4	BAZAN COURT SW PAVING, WATER & SANITARY SEWER PLAN AND PROFILE
5	FIFTH STREET SW PAVING, WATER & SANITARY SEWER PLAN AND PROFILE
6	MISCELLANEOUS DETAILS



VICINITY MAP
ZONE ATLAS MAP NO. K-14

NOTES

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 AMENDED THROUGH UPDATE #6.

THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE EXECUTION OF THE WATER VALVE SHUT-OFF PLAN WITH THE WATER SYSTEMS DIVISION (857-8200) THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER UTILITIES.

TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALLS SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.

CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED:

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED 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, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE 6-12-97



WILSON & COMPANY
4775 INDIAN SCHOOL ROAD N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO 87110
(505) 254-4000

APPROVED FOR
CONSTRUCTION

PROJECT No. 5299.90

SHEET NO. 1 OF 6

SCANNED OCTOBER 1995
BY LASON FILE NO. 94566

26-5299.90-01-1997



SUBDIVISION DATA

1. GROSS SUBDIVISION ACREAGE: 1.735 ACRES
2. ZONE ATLAS INDEX NO.: K-14
3. NO. OF TRACTS CREATED: 0
4. NO. OF LOTS CREATED: 12
5. MILES OF FULL-WIDTH STREETS CREATED: 0.051 MILES
6. DATE OF FIELD SURVEY: SEPTEMBER, 1994

NOTES

1. PLAT SHOWS ALL EASEMENTS OF RECORD.
2. BEARINGS ARE NEW MEXICO STATE PLANE GRID BEARINGS. (CENTRAL ZONE) NAD 1927
3. DISTANCES ARE GROUND DISTANCES.
4. STREET MILEAGE (CREATED OR DELETED):
5. THIS PROPERTY IS LOCATED IN SECTION 20, TOWNSHIP 10 NORTH, RANGE 3 EAST, N.M.P.M.
6. THE PURPOSE OF THIS PLAT IS TO SUBDIVIDE LOTS 1-4, BLOCK 1, LOTS 1-3, BLOCK 2 SOUTH FIFTH STREET ADDITION AND M.R.G.C.D. TRACTS 106A, 106C-1, 106D2A, 106A2, 106C-2 AND 106D2B, MAP 40, TO GRANT EASEMENTS, DEDICATE RIGHT OF WAY, AND VACATE EASEMENTS AND VACATE OLD LOT LINES.
7. BASIS OF BEARING TAKEN FROM ACS MONUMENT 3-K 14 TO 5-K 14A.
8. SP NO. 95063013230305
9. MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, STREET INTERSECTIONS, AND ALL OTHER ANGLE POINTS TO ALLOW THE USE OF CENTERLINE MONUMENTATION.

EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

1. The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, poles and any other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
 2. The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
 3. U.S. West for the installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
 4. Jones Intercable for the installation, maintenance and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.
- Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for corrected any violations of National Electrical Safety Code caused by construction of pools, decking, or any structures adjacent to, within, or near easements on this plat.
5. By approving this plat, the Utility Companies listed above do not waive or release any easement or easement rights which may have been granted by prior plat, replat, or other document and which are not shown on this plat.

LEGAL DESCRIPTION:

A TRACT OF LAND SITUATE WITHIN THE CORPORATE LIMITS OF THE CITY OF ALBUQUERQUE, NEW MEXICO, COMPRISING OF LOTS 1, 2, 3 AND 4, BLOCK 1, LOTS 1, 2, 3, BLOCK 2, OF THE SOUTH FIFTH STREET ADDITION, AS SHOWN ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MARCH 23, 1925 IN BOOK C2, FOLIO 34, AND M.R.G.C.D. TRACTS 106A, 106C-1, 106D2A, 106A2, 106C2, AND 106D2B, PROPERTY MAP 40, AND PORTIONS OF ALLEYS VACATED BY V-95-19 BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID TRACT BEING MARKED BY A SET REBAR WITH CAP "PS 11993" FROM WHENCE A TIE TO ACS MONUMENT BEARS N 25°03'58" E, A DISTANCE OF 196.44;

THENCE FROM SAID BEGINNING POINT S 03°43'38" W, A DISTANCE OF 143.52 FEET TO THE SOUTHEAST CORNER OF SAID TRACT BEING MARKED BY A FOUND REBAR WITH CAP "MARQUEZ";

THENCE S 89°22'07" W, A DISTANCE OF 146.42 FEET TO POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE S 00°37'53" E, A DISTANCE OF 3.67 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE S 89°22'07" W, A DISTANCE OF 51.90 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE S 89°14'59" W, A DISTANCE OF 353.32 FEET TO THE SOUTHWEST CORNER OF SAID TRACT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 02°33'45" E, A DISTANCE OF 69.56 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 89°14'59" E, A DISTANCE OF 34.00 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 06°42'59" E, A DISTANCE OF 80.07 FEET TO THE NORTHWEST CORNER OF SAID TRACT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 89°14'59" E, A DISTANCE OF 46.25 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 09°41'59" E, A DISTANCE OF 8.13 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 89°14'59" E, A DISTANCE OF 54.28 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE S 09°41'59" W, A DISTANCE OF 25.43 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 89°14'59" E, A DISTANCE OF 103.63 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 82°38'59" E, A DISTANCE OF 99.35 FEET TO A POINT MARKED BY A SET REBAR WITH CAP "PS 11993";

THENCE N 88°25'27" E, A DISTANCE OF 214.73 FEET TO THE POINT AND PLACE OF BEGINNING CONTAINING 1.735 ACRES (75,582 SQUARE FEET) MORE OR LESS.

FREE CONSENT AND DEDICATION

THE SUBDIVISION SHOWN HEREON IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER(S) AND/OR PROPRIETOR(S) THEREOF AND SAID OWNER(S) AND/OR PROPRIETOR(S) DO HEREBY DEDICATE ALL STREETS AND PUBLIC RIGHT-OF-WAYS SHOWN HEREON TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE WITH WARRANTY COVENANTS AND DO HEREBY GRANT: ALL ACCESS, UTILITY AND DRAINAGE EASEMENTS SHOWN HEREON INCLUDING THE RIGHT TO CONSTRUCT, OPERATE, INSPECT, AND MAINTAIN FACILITIES THEREIN; AND ALL PUBLIC UTILITY EASEMENTS SHOWN HEREON FOR THE COMMON AND JOINT USE OF GAS, ELECTRICAL, POWER AND COMMUNICATION SERVICES FOR BURIED DISTRIBUTION LINES, CONDUITS, AND PIPES FOR UNDERGROUND UTILITIES WHERE SHOWN OR INDICATED, AND INCLUDING THE RIGHT OF INGRESS AND EGRESS FOR CONSTRUCTION AND MAINTENANCE, AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS. SAID OWNER(S) AND/OR PROPRIETOR(S) DO HEREBY CONSENT TO ALL OF THE FOREGOING AND DO HEREBY CERTIFY THAT THIS SUBDIVISION IS THEIR FREE ACT AND DEED. SAID OWNER AND PROPRIETOR DO HEREBY DEDICATE ALL STREETS AND PUBLIC RIGHTS OF WAY SHOWN HEREON TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE WITH WARRANTY COVENANTS. EASEMENTS GRANTED AS SHOWN HEREON.

AUGUSTINE C. BACA
PRESIDENT
YOUTH DEVELOPMENT, INC.

DATE

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS _____ DAY OF _____, 1995 BY AUGUSTINE C. BACA, PRESIDENT, YOUTH DEVELOPMENT, INC.

BY _____ MY COMMISSION EXPIRES: _____
NOTARY PUBLIC

PLAT OF
LOTS 1-12 OF

BARELAS HOMES SUBDIVISION

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
OCTOBER 1995

APPROVALS

PLANNING DIRECTOR	DATE
CITY ENGINEER	DATE
A.M.A.F.C.A.	DATE
TRAFFIC ENGINEER	DATE
CITY SURVEYOR	DATE
PROPERTY MANAGEMENT	DATE
WATER RESOURCES DEPARTMENT	DATE
PARKS AND GENERAL SERVICES	DATE
PUBLIC SERVICE COMPANY OF NEW MEXICO	DATE
GAS COMPANY OF NEW MEXICO	DATE
U.S. WEST COMMUNICATIONS	DATE
JONES INTERCABLE	DATE

TREASURER'S CERTIFICATE

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC# _____

PROPERTY OWNER OF RECORD:

BERNALILLO COUNTY TREASURER'S OFFICE:

SURVEYOR'S CERTIFICATE

I, LARRY W. MEDRANO, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE AND OF STANDARDS FOR LAND SURVEYS OF THE N.M. BOARD OF REGISTRATION FOR ENGINEERS AND SURVEYORS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT NO ENCROACHMENTS EXIST EXCEPT AS NOTED ABOVE, AND THAT ALL IMPROVEMENTS ARE SHOWN IN THEIR CORRECT LOCATION RELATIVE TO RECORD BOUNDARIES AS LOCATED BY THIS SURVEY.

LARRY W. MEDRANO
N.M.P.S. No. 11993

DATE



PRECISION SURVEYS

2929 COORS BLVD NW, SUITE 105
ALBUQUERQUE, NEW MEXICO 87120

PHONE 505 839 0568
FAX 505 839 4155

DRB CASE No. 94-325
SHEET 1 OF 3

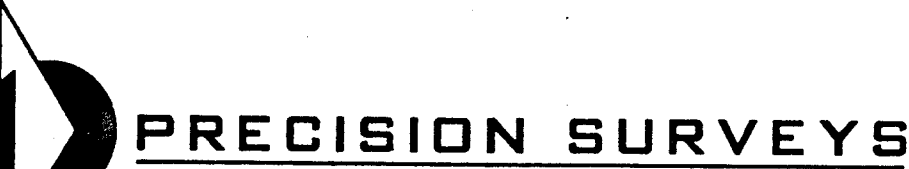
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SURVEYOR'S CERTIFICATE

I, LARRY W. MEDRANO, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE AND OF STANDARDS FOR LAND SURVEYS OF THE N.M. BOARD OF REGISTRATION FOR ENGINEERS AND SURVEYORS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT NO ENCROACHMENTS EXIST EXCEPT AS NOTED ABOVE, AND THAT ALL IMPROVEMENTS ARE SHOWN IN THEIR CORRECT LOCATION RELATIVE TO RECORD BOUNDARIES AS LOCATED BY THIS SURVEY.

LARRY W. MEDRANO
N.M.P.S. No. 11993

DATE



2929 COORS BLVD NW, SUITE 105
ALBUQUERQUE, NEW MEXICO 87120

PHONE 505 839 0568
FAX 505 839 4155

ACS MONUMENT "1-K13"
CONTROL STATION DATA
NM STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 1927
X=378,240.51
Y=1,484,181.41
GROUND TO GRID FACTOR=0.99968050
DELTA ALPHA=-0071402"

PUBLIC UTILITY
EASEMENT GRANTED
THIS PLAT

LOT 1
5,221 sq.ft.
0.120 acres

LOT 2
5,849 sq.ft.
0.134 acres

LOT 3
6,439 sq.ft.
0.148 acres

LOT 4
5,072 sq.ft.
0.116 acres

LOT 5
4,811 sq.ft.
0.110 acres

LOT 6
4,810 sq.ft.
0.110 acres

LOT 7
4,800 sq.ft.
0.110 acres

LOT 8
4,805 sq.ft.
0.110 acres

LOT 9
4,900 sq.ft.
0.112 acres

LOT 10
5,045 sq.ft.
0.116 acres

LOT 11
5,204 sq.ft.
0.119 acres

LOT 12
4,976 sq.ft.
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LOT 124
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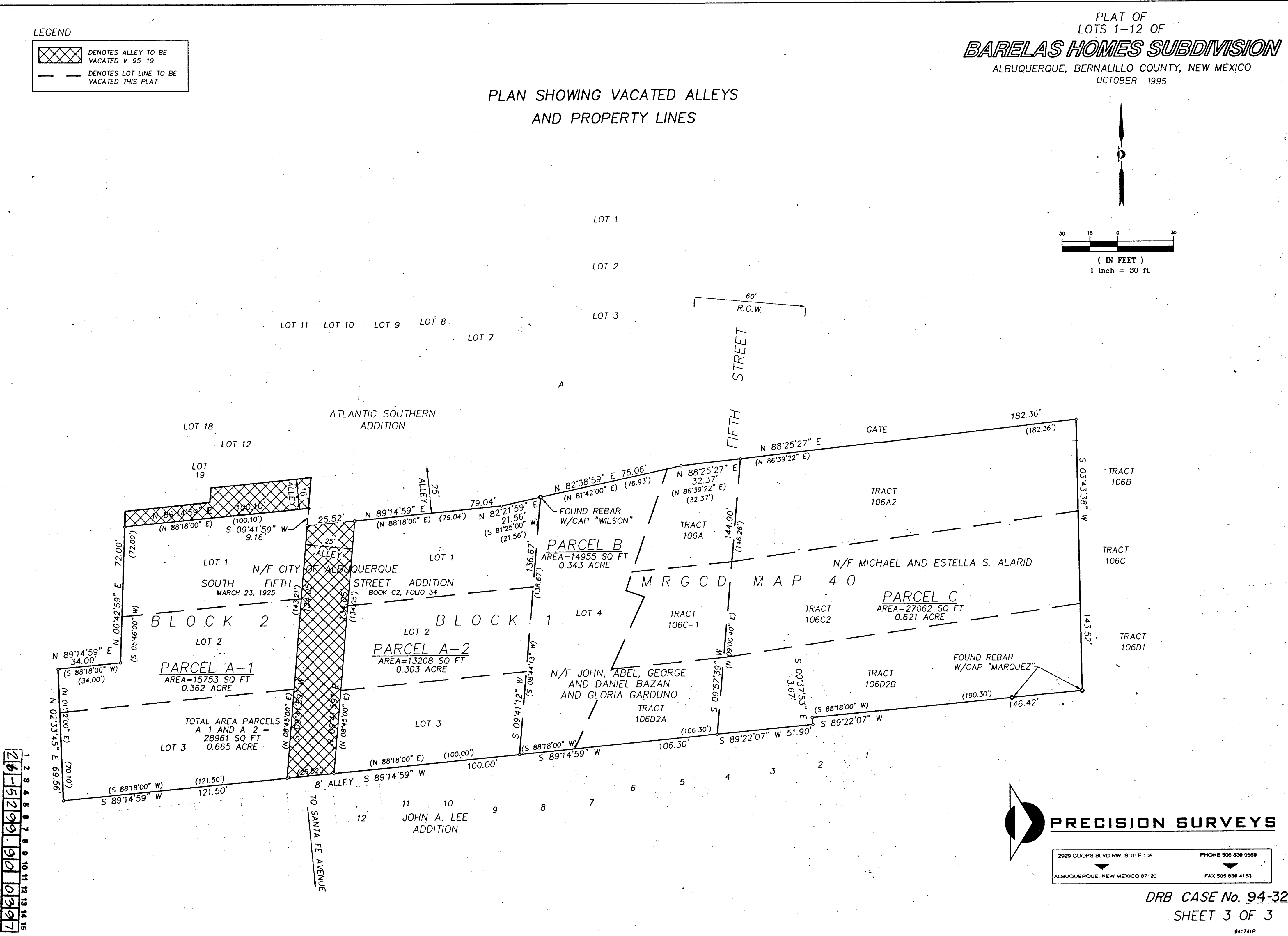
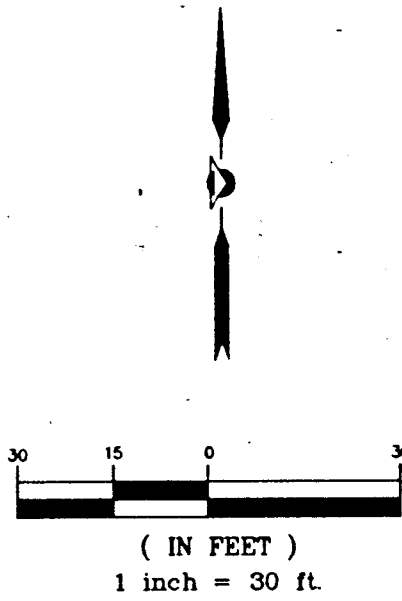
LEGEND


 DENOTES ALLEY TO BE VACATED V-95-19

 DENOTES LOT LINE TO BE VACATED THIS PLAT

PLAT OF
LOTS 1-12 OF
BARELAS HOMES SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
OCTOBER 1995

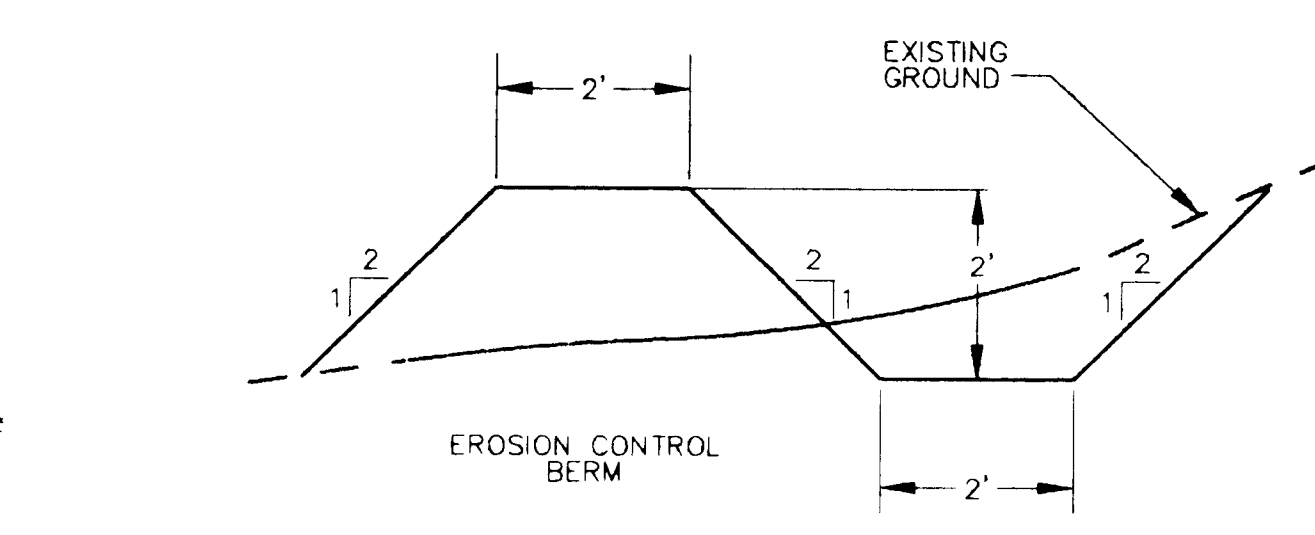
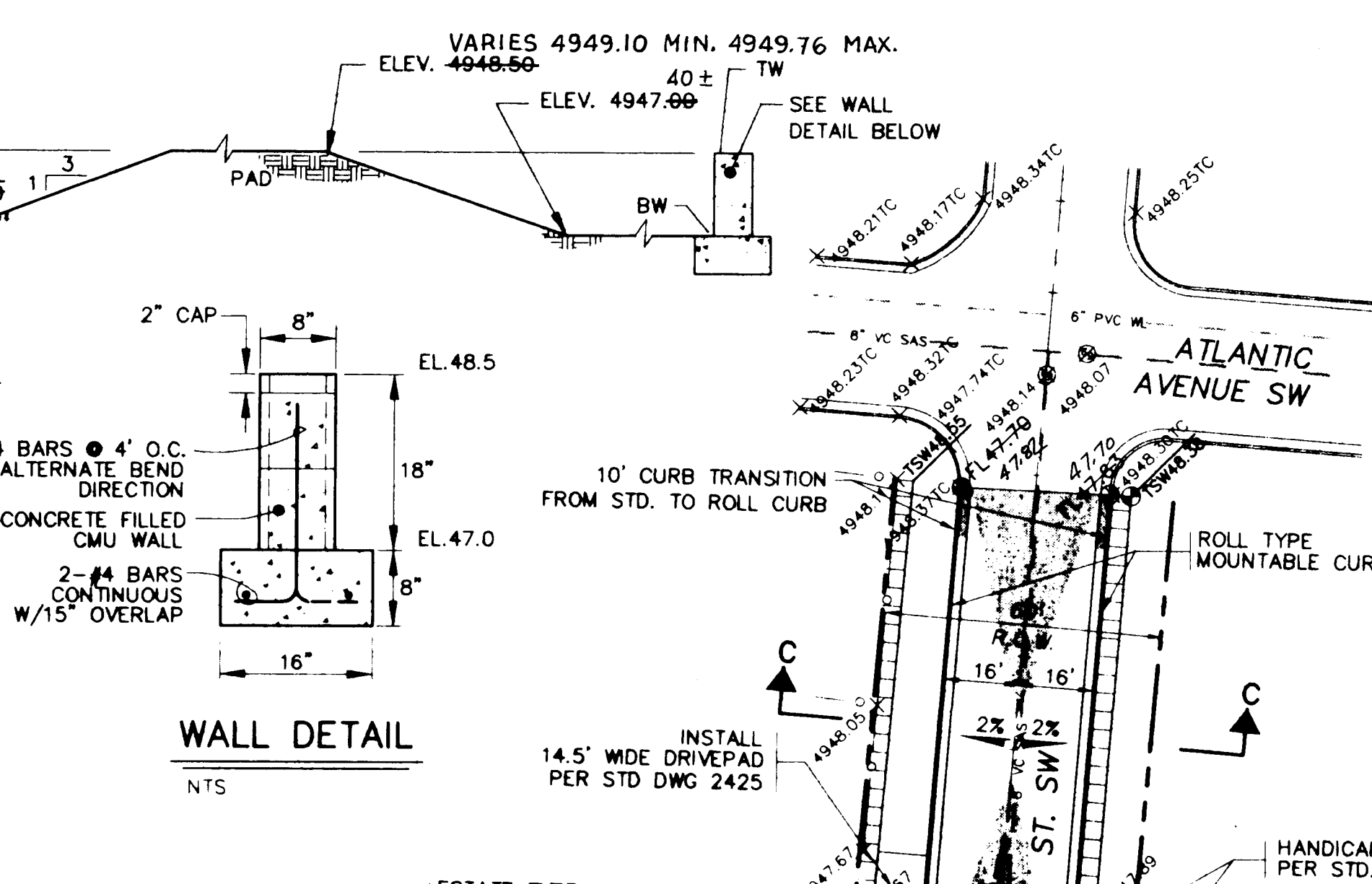
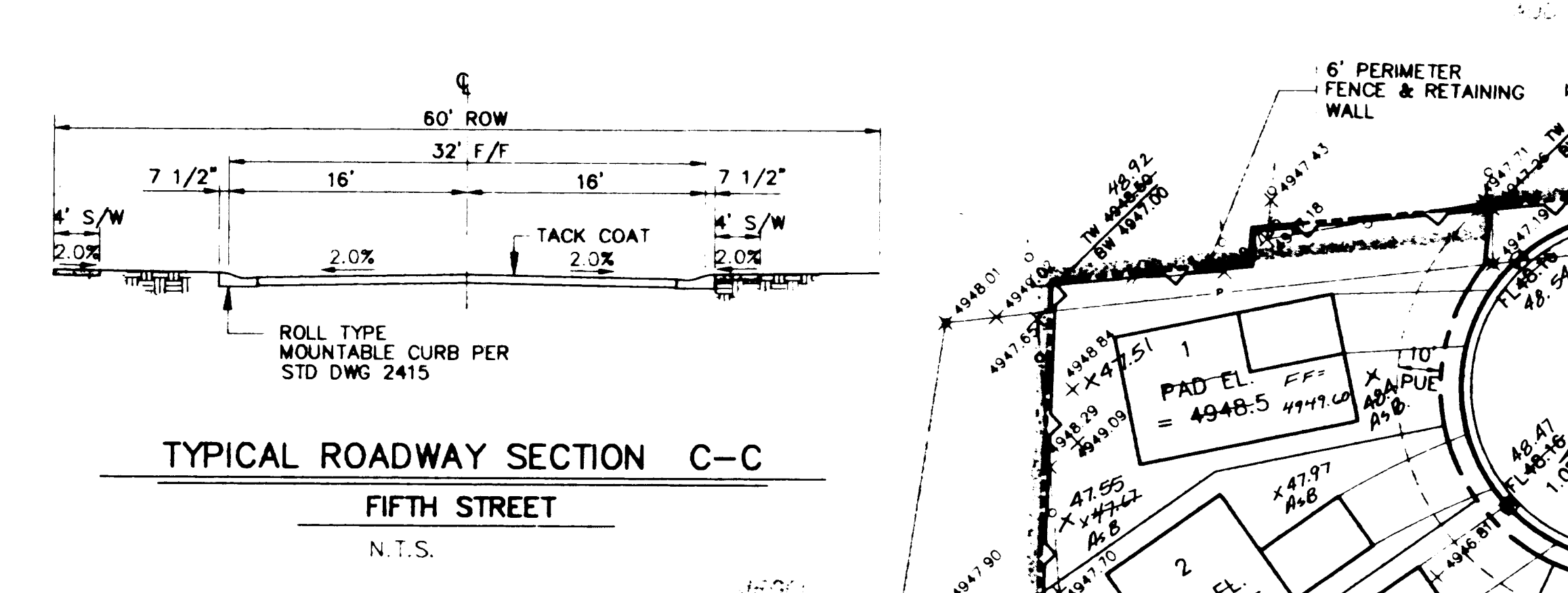
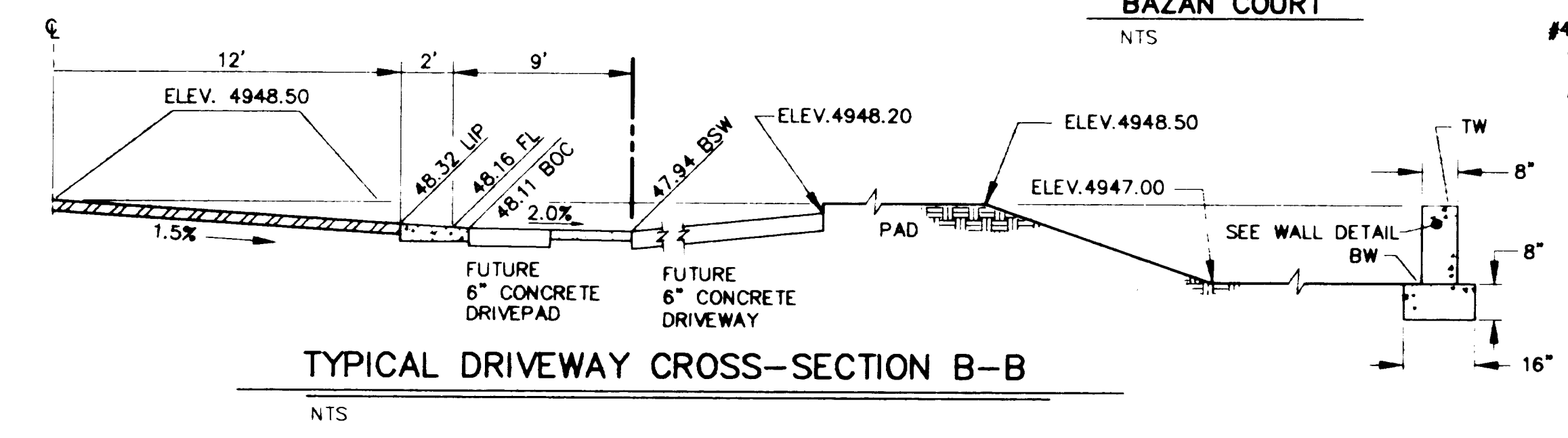
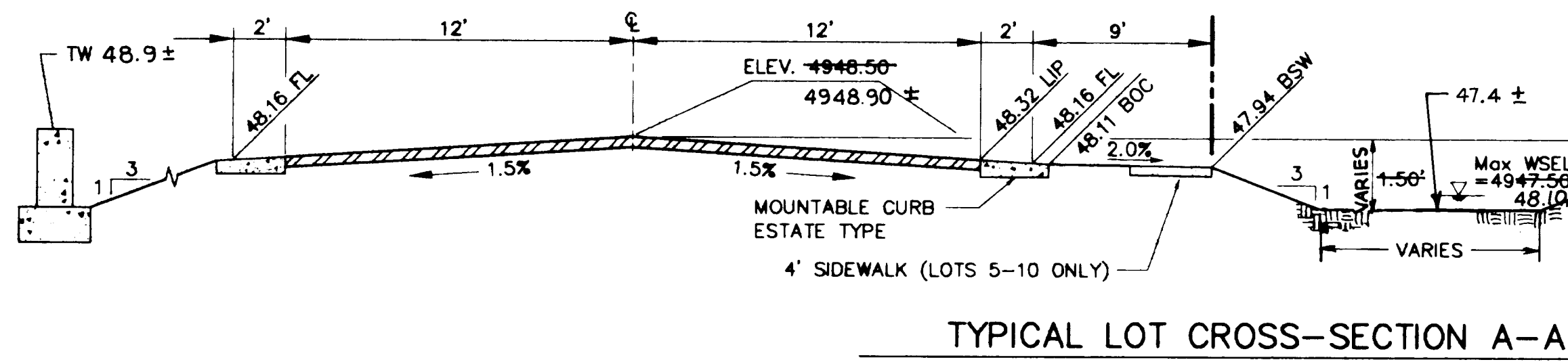
PLAN SHOWING VACATED ALLEYS
AND PROPERTY LINES



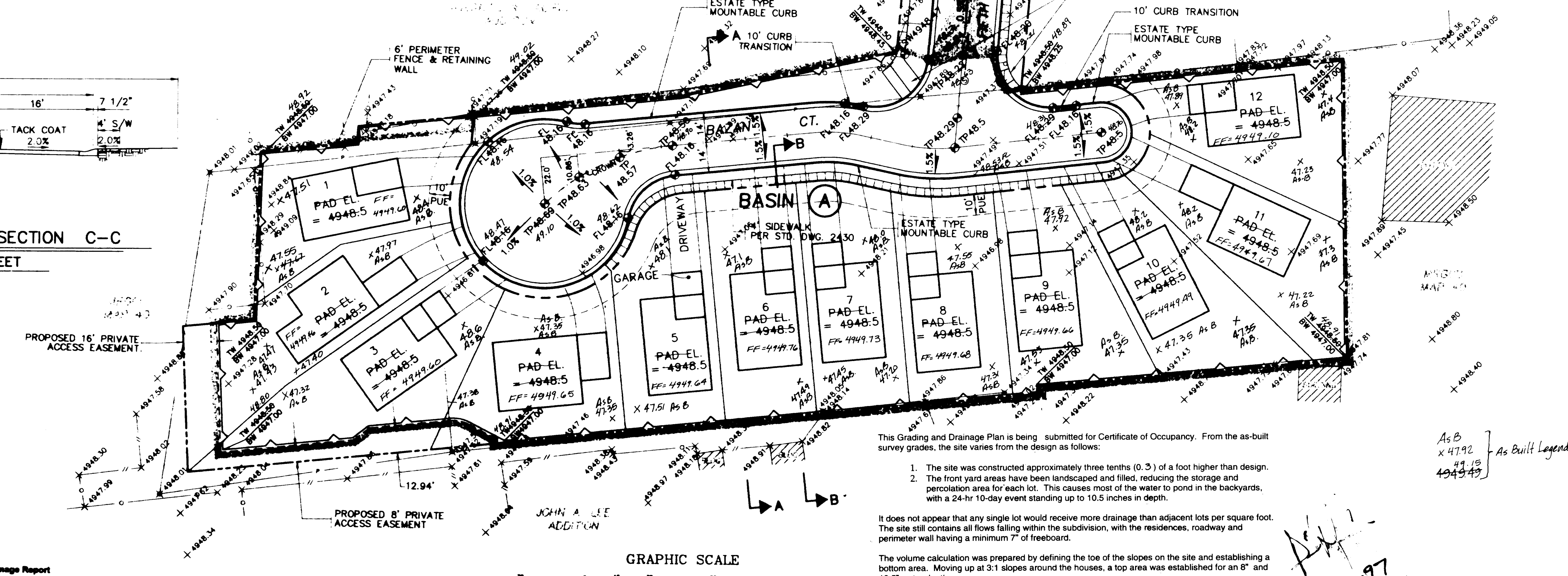
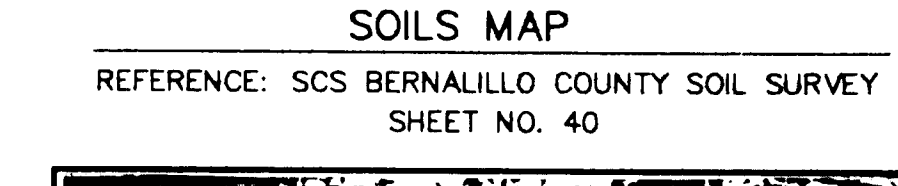
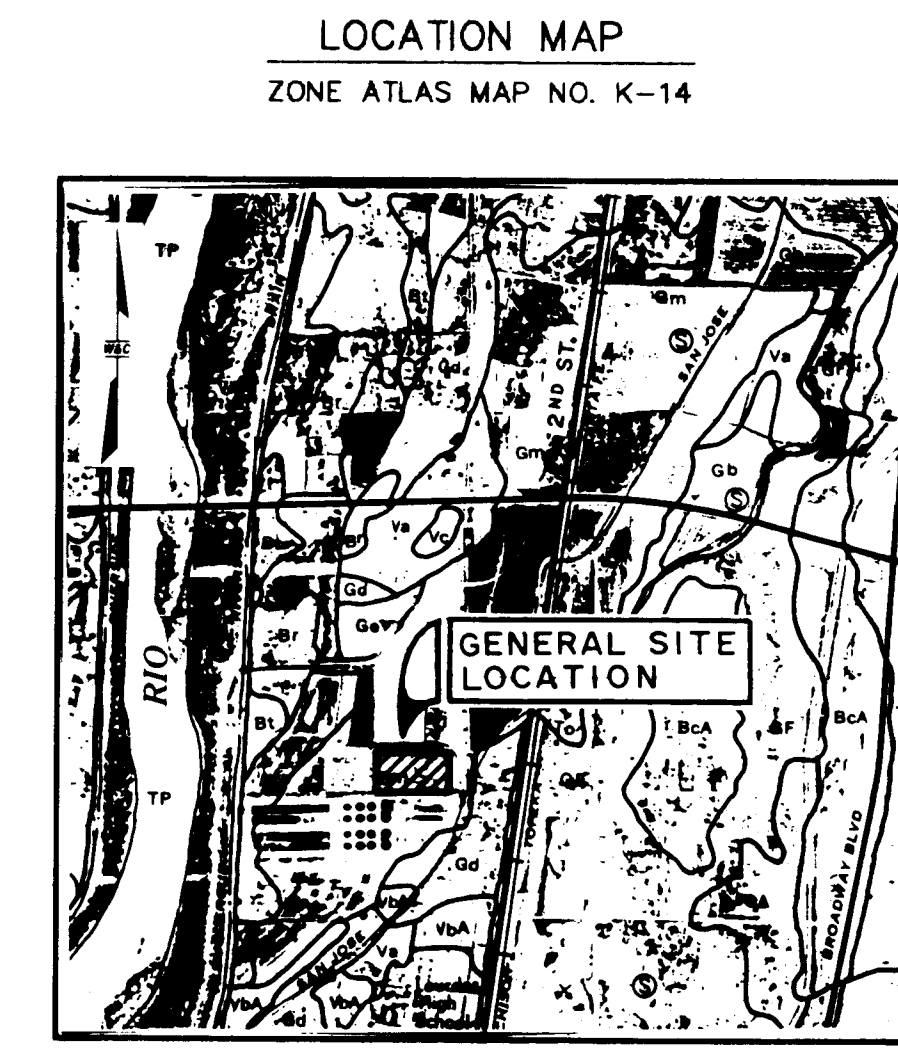
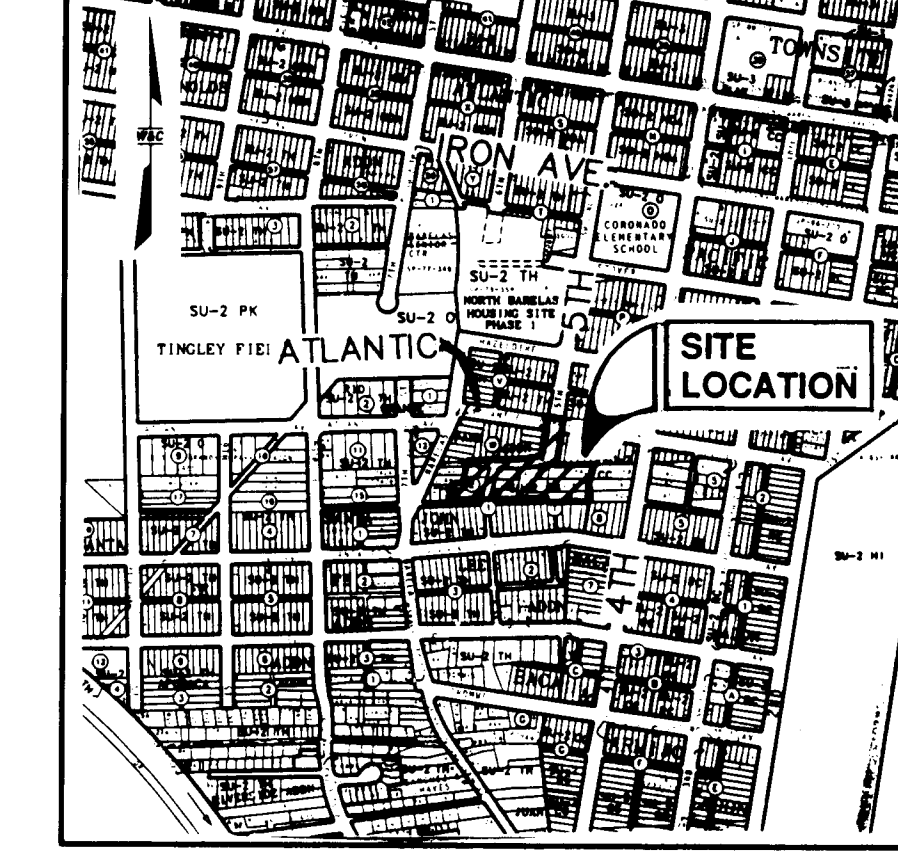
 **PRECISION SURVEYS**

2929 COORS BLVD NW, SUITE 105
ALBUQUERQUE, NEW MEXICO 87120

PHONE 505 638 0569
FAX 505 838 4153



- GRADING NOTES:**
1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
 2. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
 3. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL ABOVE AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
 4. THE CONTRACTOR SHALL ENSURE THAT NO PERMANENT GRADED SLOPES EXCEED 1' VERTICAL FALL IN 3' HORIZONTAL RUN (3:1). THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES WITH THIS REQUIREMENT SO THAT RESOLUTIONS MAY BE CONSIDERED WITH A MINIMUM OF DELAY.



This Grading and Drainage Plan is being submitted for Certificate of Occupancy. From the as-built survey grades, the site varies from the design as follows:

1. The site was constructed approximately three tenths (0.3) of a foot higher than design.
2. The front yard areas have been landscaped and filled, reducing the storage and percolation area for each lot. This causes most of the water to pond in the backyards, with a 24-hr 10-day event standing up to 10.5 inches in depth.

It does not appear that any single lot would receive more drainage than adjacent lots per square foot. The site still contains all flows falling within the subdivision, with the residences, roadway and perimeter wall having a minimum 7" of freeboard.

The volume calculation was prepared by defining the toe of the slopes on the site and establishing a bottom area. Moving up at 3:1 slopes around the houses, a top area was established for an 8" and 10.5" water depth.

Using average end area, the available storage is:

8 inch depth = .29 AC-FT
10.5 inch depth = .38 AC-FT
MAX WSEL = 4948.13

I am satisfied that no single lot will hold water to a depth significantly greater than any adjacent lots, although some lots do have more volume available for storage because of the lot sizes.

This certifies that no off-site flows discharge into the site, nor do any on-site flows discharge off the site per the original intent of this plan.

I, Daniel S. Aguirre, do hereby certify that this site is graded as hereon and is in substantial compliance with the approved Drainage Plan.

LOT	TOTAL AREA (ac)	PONDING AREA (ac) EL. 48.5	10-DAY (ac-ft)
1	0.106	0.059	0.030
2	0.110	0.064	0.032
3	0.120	0.074	0.037
4	0.109	0.063	0.032
5	0.110	0.058	0.029
6	0.110	0.060	0.032
7	0.109	0.063	0.032
8	0.110	0.065	0.033
9	0.110	0.068	0.034
10	0.112	0.063	0.032
11	0.117	0.073	0.037
12	0.109	0.067	0.034
NORTH OF BAZAN COURT	0.043	0.043	0.022
TOTAL	1.370	0.820	0.412

- LEGEND**
- EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - BASIN DESIGNATION
 - BASIN BOUNDARY / EROSION CONTROL BERM
 - PROPOSED RETAINING WALL

PROJECT No. 5299.90

Site Location and Description:

The site is located between Atlantic Avenue SW and Santa Fe Avenue SW and will be accessed by Fifth Street SW. The site is currently undeveloped. The proposed development includes a subdivision with twelve lots along a residential street.

Methodology:

The Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque was followed to calculate peak runoff for the site. The method used to determine the runoff for Basin A is designated Part A in the revised Section 222. Using the 100-year frequency 10-day rainfall volume as the design storm, the charts and formulas in Part A were followed. The site is located in Zone 2 as determined from Figure A, and the peak discharge was determined using Table 9.

Existing Conditions:

The site has one basin designated as Basin A. The site has been uncompacted by human activity. The following calculations show the peak discharge and volume for the 100-year event. These volumes currently pond and remain on-site, and no off-site flows enter the site.

Hydrology Calculations: Existing Conditions

Basin	Land Treatment	Zone	Area (Acres)	Peak Discharge Q (cfs)	E ₁₀ (in)	Req'd V _{10-day} (ac-ft)
A	A	2	1.83	2.85	0.53	0.08

Proposed Conditions:

Proposed conditions include construction of a single-family 12-unit residential subdivision. The site will be improved southward to lead to the proposed public residential street. To retain precipitation on the area upon which it falls, the subdivision will be constructed to an even grade. A perimeter wall will be built around the site to keep drainage from flowing into or out of the site. The road within the subdivision will be crowned at the center line. The following calculations show the peak discharge and volume for the 100-year event.

Hydrology Calculations: Proposed Conditions

Basin	Land Treatment	Zone	Area (Acres)	Peak Discharge Q (cfs)	E ₁₀ (in)	V _{10-day} (ac-ft)
A	B C D	2	0.815 0.205 1.01	1.402 0.844 4.747		
		Sub-Total	1.83	6.793	1.56	0.37

Conclusion:

The access road will be crowned to direct flows off the road and onto the private lots. The proposed 100-year 10-day volume will cover the private lots with approximately 0.40 cubic feet of water with a 100-year surface elevation of 4947.5 feet. House pads will be set at an elevation one foot above the 100-year water surface elevation at 4948.5 feet.

LEGAL DESCRIPTION
LOTS 1 THRU 12 BARELAS HOMES

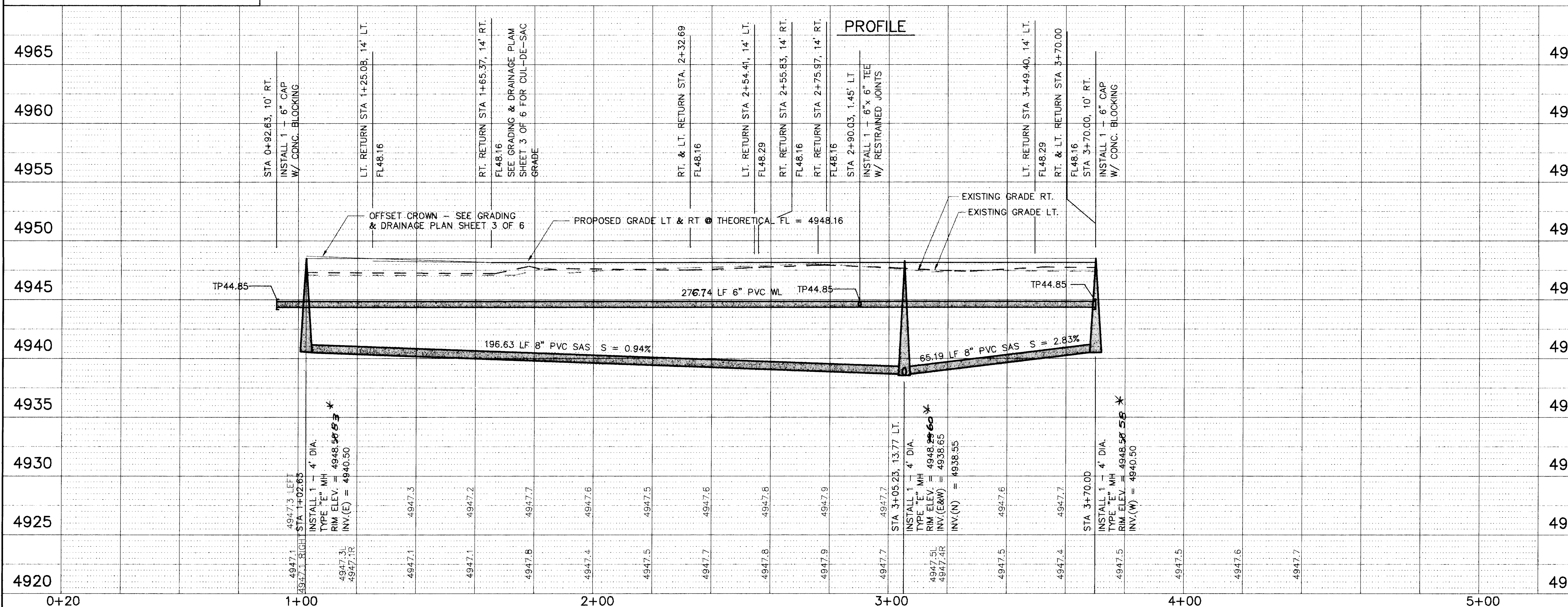
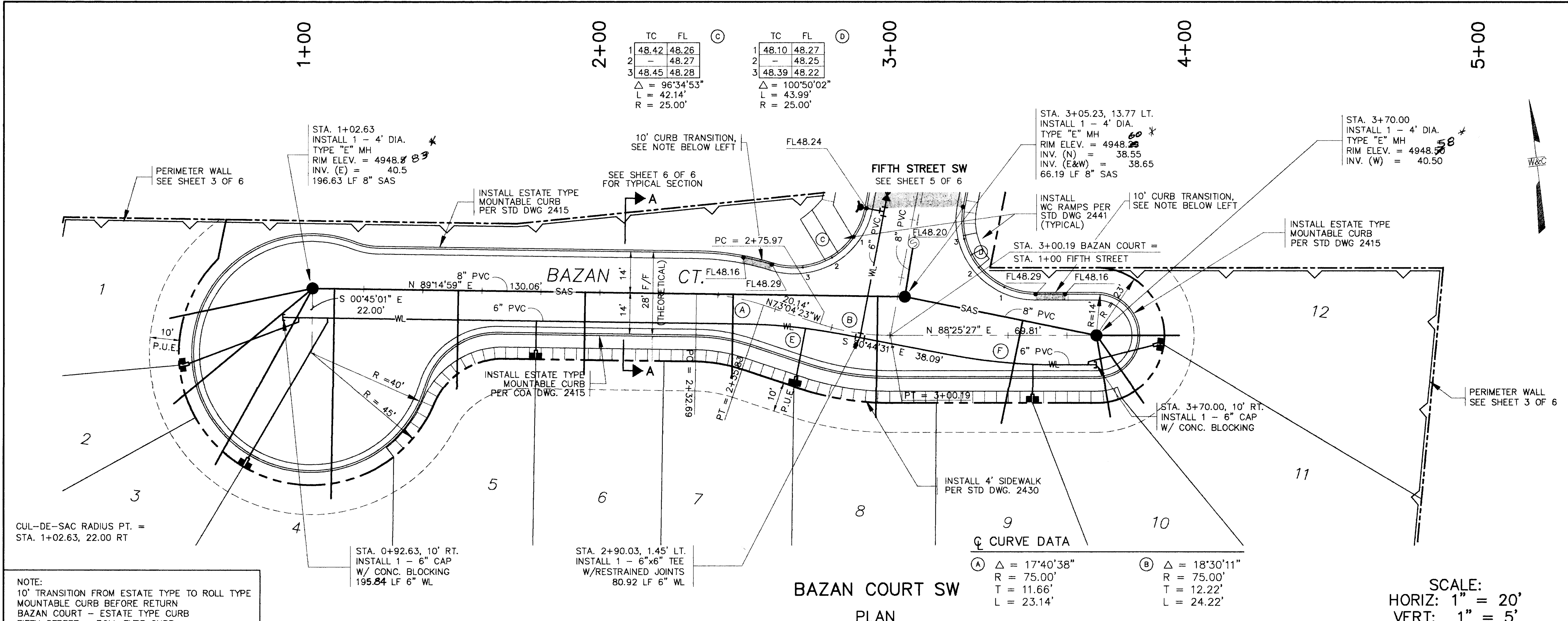
BENCH MARK
A STANDARD CITY OF ALBUQUERQUE DISK MARKED "3-K 14 ACS" SET IN DRILLED HOLE IN SIDEWALK, LOCATED AT THE NE QUADRANT OF INTERSECTION OF 3RD ST. AND LEAD AVE., 7.0 FT. EAST OF B/C ON 3RD ST AND 9.0 FT. NORTH OF B/C ON LEAD AVE. ELEV.(SD 1929)=4950.564

BARELAS HOMES

FINAL GRADING & DRAINAGE PLAN

DESIGN J.P.A.	DRAWN K.L.S. V.K.L.	DATE SEPT. 1995
WILSON & COMPANY 4775 INDIAN SCHOOL ROAD N.E. SUITE 200 ALBUQUERQUE, NEW MEXICO 87110 (505) 254-4000		FILE NO. 94566 SHEET NO. 3 OF 6

AS BUILT



WL CURVE DATA

PC STA. 2+50.43, 8.14' RT.
① Δ = 10°00'29"
R = 190.00'
T = 16.64'
L = 33.19'

PT STA. 2+83.24, 1.39' RT.
PC STA. 3+20.48, 6.61' RT.
② Δ = 10°50'02"
R = 190.00'
T = 18.02'
L = 35.93'

PT STA. 3+56.19, 10.0' RT.

WATER SERVICE TABLE

WATER SERVICE TABLE (3/4")
PER STD. DWG. 2362

STATION	LENGTH LF	TYPE	REMARKS
0+98.10 RT	43	DOUBLE	
1+07.82 10' RT	56	DOUBLE	
1+78.55 9.77' RT	12	DOUBLE	
2+71.75 2.97' RT	20	DOUBLE	
3+48.44 9.84' RT	12	DOUBLE	
3+67.25 10' RT	26	DOUBLE	

SANITARY SEWER SERVICE TABLE

SANITARY SEWER SERVICE TABLE
4" LINE PER STD. DWG. 2125/2136

STATION	LENGTH LF	INV. PL	REMARKS
1+02.63 SW	42	44.70	RADIAL FR. MH
1+02.63 SW	54	44.02	RADIAL FR. MH
1+02.63 SW	66	44.29	RADIAL FR. MH
1+10	66	44.70	W/2.5' RISER
1+52	30	44.26	W/3.5' RISER
1+95	23	44.28	W/3' RISER
2+45 1.04 LT	23.5	44.12	W/4' RISER
2+95 13.13 LT	36	44.32	W/4.5' RISER
3+45 5.07 LT	28.6	44.69	W/3.5' RISER
3+70 SE	21	44.00	RADIAL FR. MH
3+70 NE	21	44.15	RADIAL FR. MH
3+70 SE	21	44.15	RADIAL FR. MH

*NOTE: "AS BUILT"

ALL SANITARY SEWER SERVICES
CONSTRUCTED 1.0' OUTSIDE
ROAD RIGHT OF WAY.

P.B. LUCERO
LUCERO & ASSOCIATES

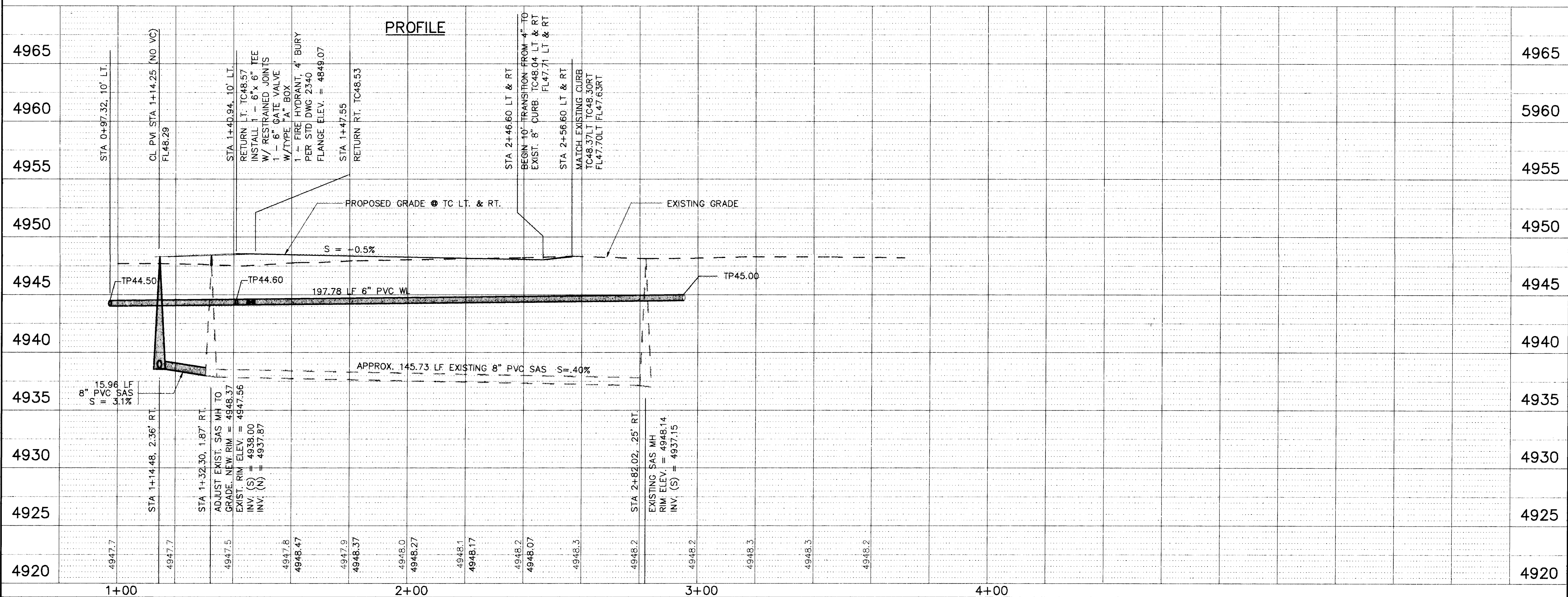
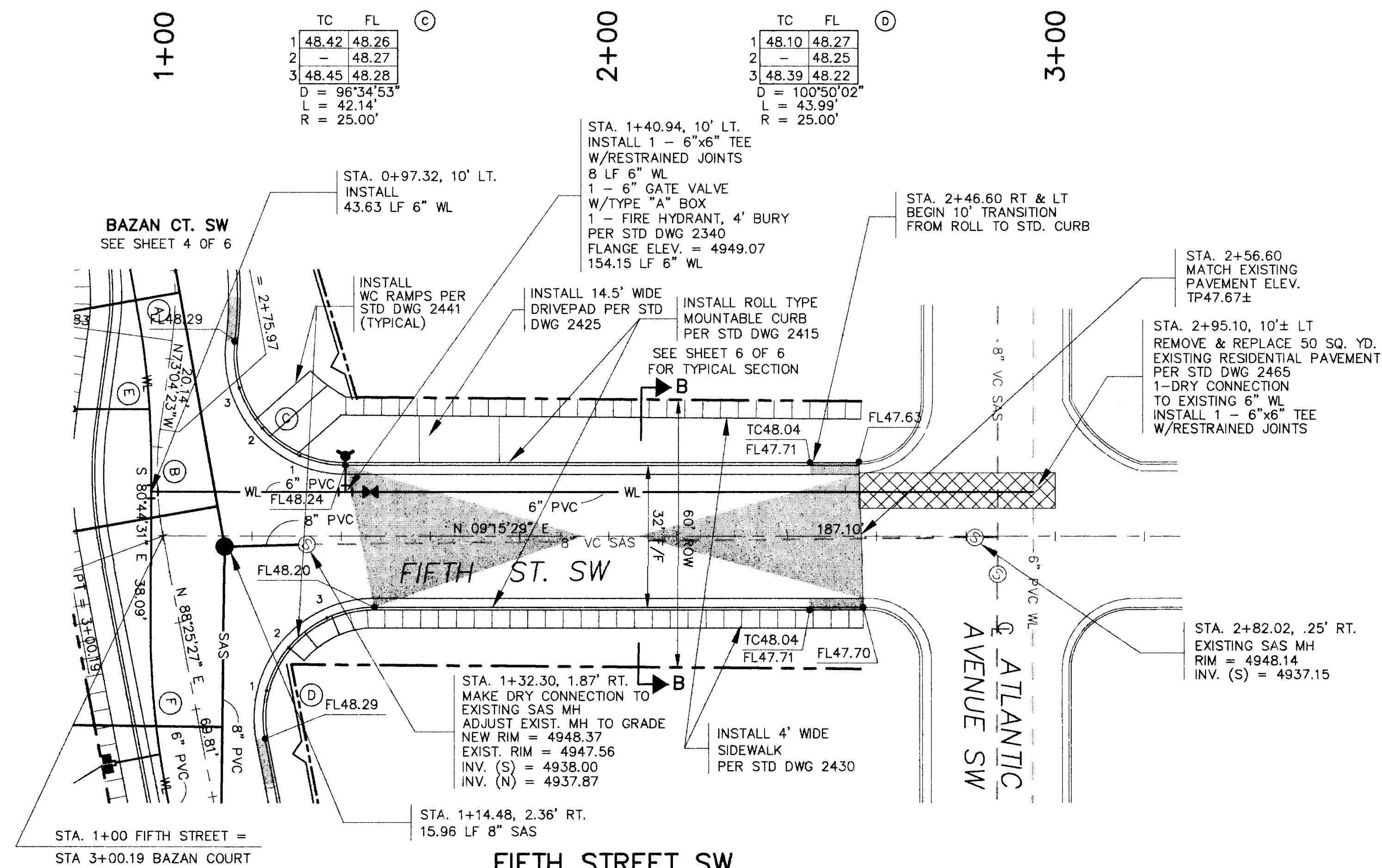
REVISIONS

NO.	DATE	REMARKS
1	11-21-95	Water
2	11-09-95	Waste Water
3	11-9-95	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BARELAS HOMES
PAVING, WATER & SANITARY SEWER PLAN & PROFILE
BAZAN COURT SW

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
J.R.C. Chair	R.W. Kane	11-21-95	Water	R.W. Kane	11-3-95
Transportation	R.W. Kane	11-09-95	Waste Water	R.W. Kane	11-3-95
Hydrology	J.P.C.	11-9-95			



SCALE:
HORIZ: 1" = 20'
VERT: 1" = 5'

NOTE:
SEE SHEET 6 OF 6 FOR RESTRAINED
JOINT TABLE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BARELAS HOMES

PAVING, WATER & SANITARY SEWER PLAN & PROFILE

FIFTH STREET SW

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair.	<i>B.G. Gashley</i>	11-21-95	Water	<i>R.W. Kane</i>	11-3-95
Transportation	<i>R. Day</i>	11-29-95	Waste Water	<i>R.W. Kane</i>	11-3-95
Hydrology	<i>J.P.C.</i>	11-9-95			

DRAWING NO.	5299.90	MAP NO.	K-14	SHEET	5	OF	6
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WILSON
& COMPANY

AS-BUILT INFORMATION	
CONTRACTOR	NCC INC
WORK ORDER NO.	
DATE	
APPROVED BY	
DATE	
ACCEPTANCE BY	
FIELD NO.	
DESCRIPTION	REVISION INFORMATION BY LEXINGTON ASS
DATE	DATE 10/10/96
DRAWINGS	DATE 8/23/96
CORRECTED BY	
DATE	
RECORDED BY	
NO.	
MICRO-FILM INFORMATION	

BENCH MARKS	
STD. XXX	A STANDARD CITY OF ALBUQUERQUE D'SK MARKED "3-K 14 ACS" SET IN DRILLED HOLE IN SIDEWALK, LOCATED AT THE NE QUADRANT OF INTERSECTION OF 3RD ST. AND LEAD AVE., 7.0 FT. EAST OF B/C ON 3RD ST. AND 9.0 FT. NORTH OF B/C ON LEAD AVE.

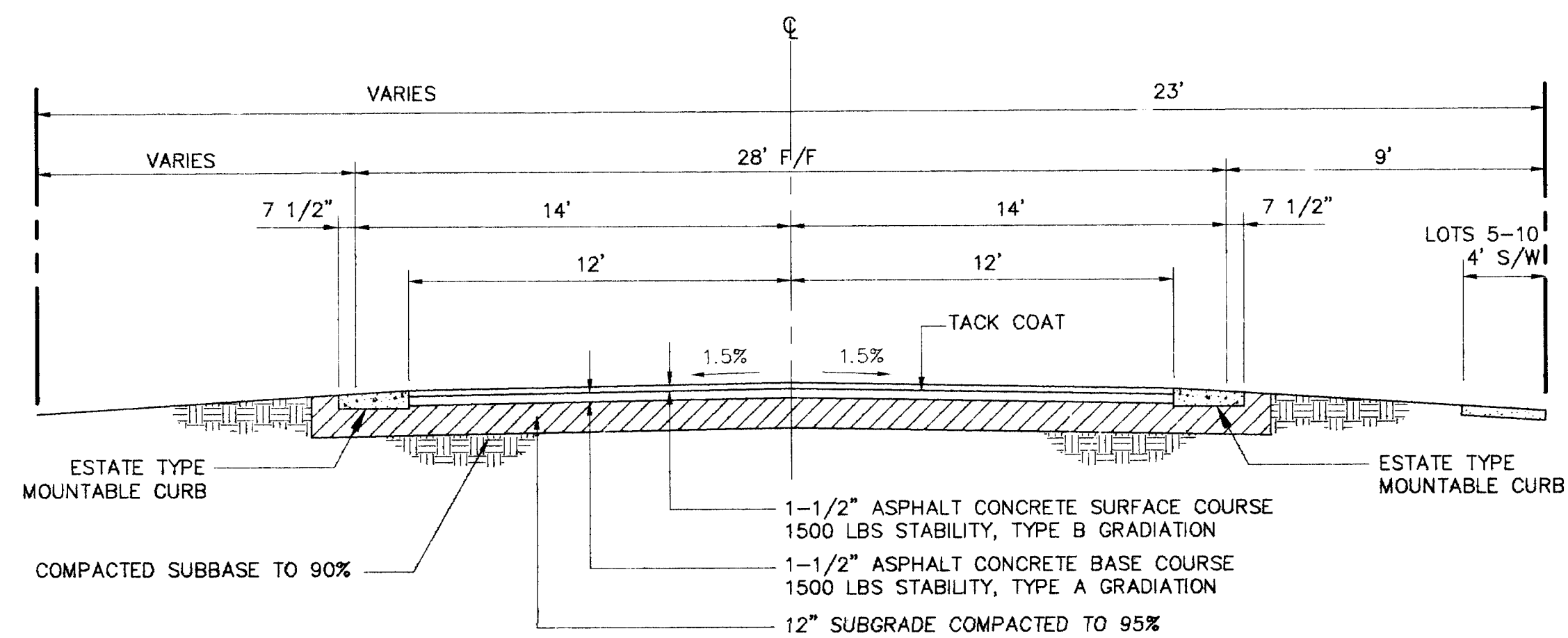
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CITY OF ALBUQUERQUE					
PUBLIC WORKS DEPARTMENT					
ENGINEERING GROUP					
BARELAS HOMES					
PAVING, WATER & SANITARY SEWER				PLAN & PROFILE	
FIFTH STREET SW					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair.	<i>B.G. Barelas</i>	<i>11-21-95</i>	Water	<i>R.W. Lane</i>	<i>11-3-95</i>
Transportation	<i>R.B. Lane</i>	<i>11-07-95</i>	Waste Water	<i>R.W. Lane</i>	<i>11-3-95</i>
Hydrology	<i>PC</i>	<i>11-9-95</i>			

DRAWING NO.	5299.90	MAP NO.	K-14	SHEET	5	OF	6
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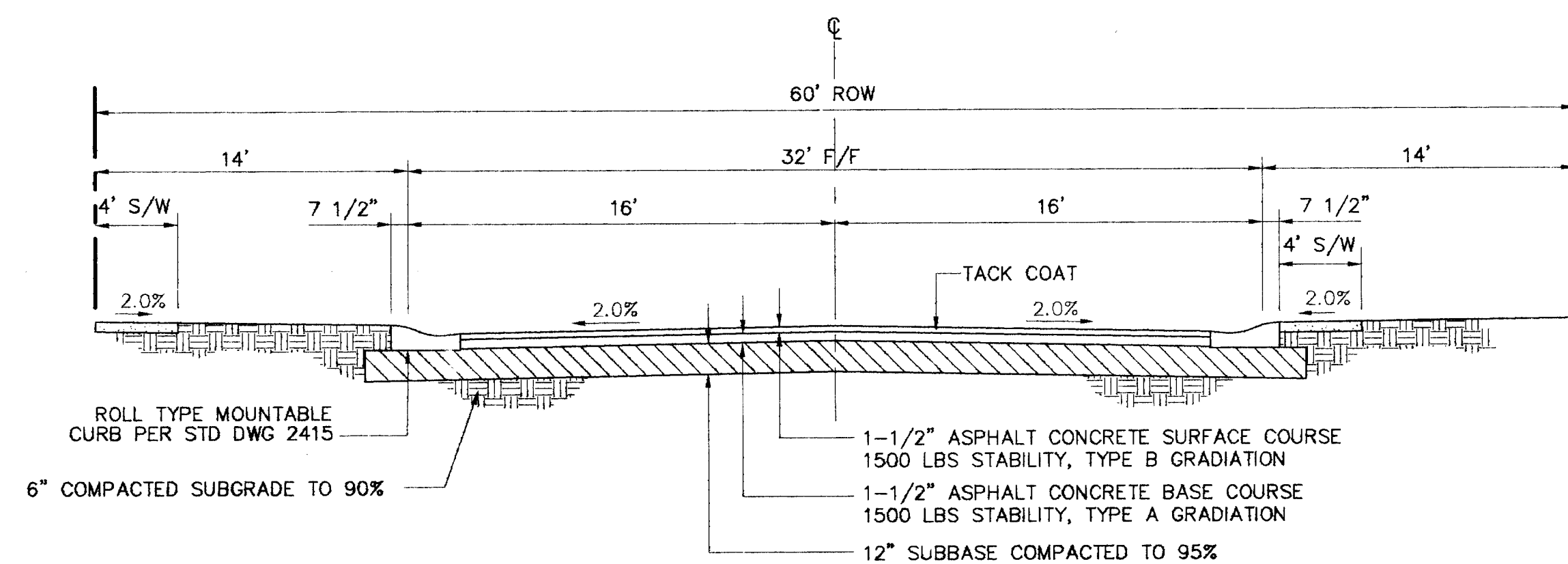
WILSON
& COMPANY

3	2	2	2	2	0	0	3	9	7
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TYPICAL ROADWAY SECTION A-A

N.T.S. BAZAN COURT SW



TYPICAL ROADWAY SECTION B-B

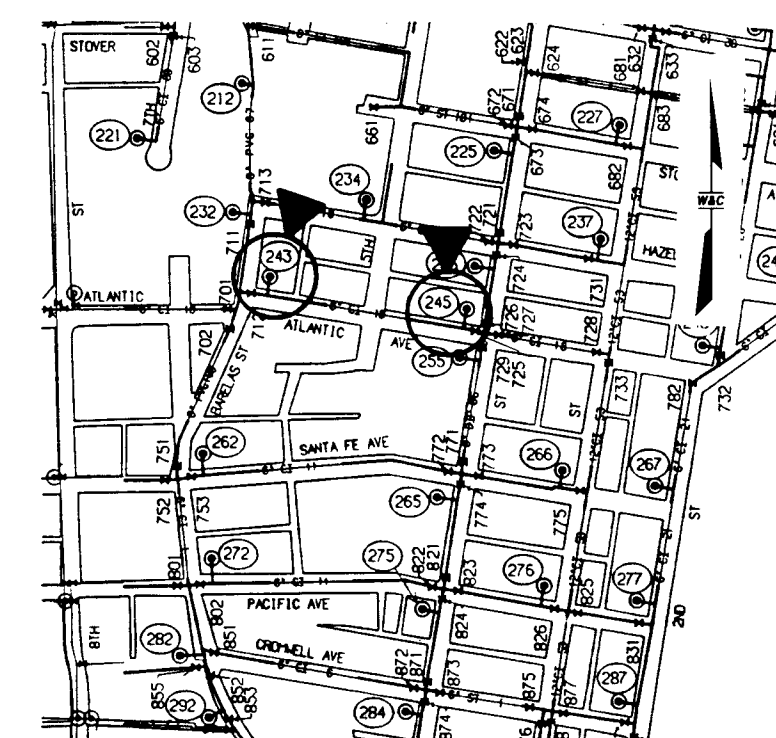
N.T.S. FIFTH STREET SW

RESTRAINED JOINT TABLE

LENGTH OF RESTRAINED PIPE EACH WAY
(FEET)

PIPE SIZE	90°	45°	22-1/2°	11-1/4°	TEE	VALVE/ CAP/FH	REDUCER
4"	—	—	—	—	—	—	—
6"	—	—	—	—	6x6-24'	73'	—
8"	—	—	—	—	—	—	—
10"	—	—	—	—	—	—	—
12"	—	—	—	—	—	—	—

* TEE BRANCH — EACH RUN PIPE SHALL BE MINIMUM 10' W/O JOINTS.



WATER VALVE SHUT-OFF PLAN

• Close Valves 243 & 245

BARELAS HOMES
26-5299.90 0697

MISCELLANEOUS DETAILS

DESIGN J.P.A.	DRAWN V.K.L.	DATE OCT. 1995
WILSON & COMPANY 4775 INDIAN SCHOOL ROAD N.E. SUITE 200 ALBUQUERQUE, NEW MEXICO 87110 (505) 254-4000		FILE NO. 94566 SHEET NO. 6 OF 6

SCANNED BY
BY LASON

CPN 5299.90