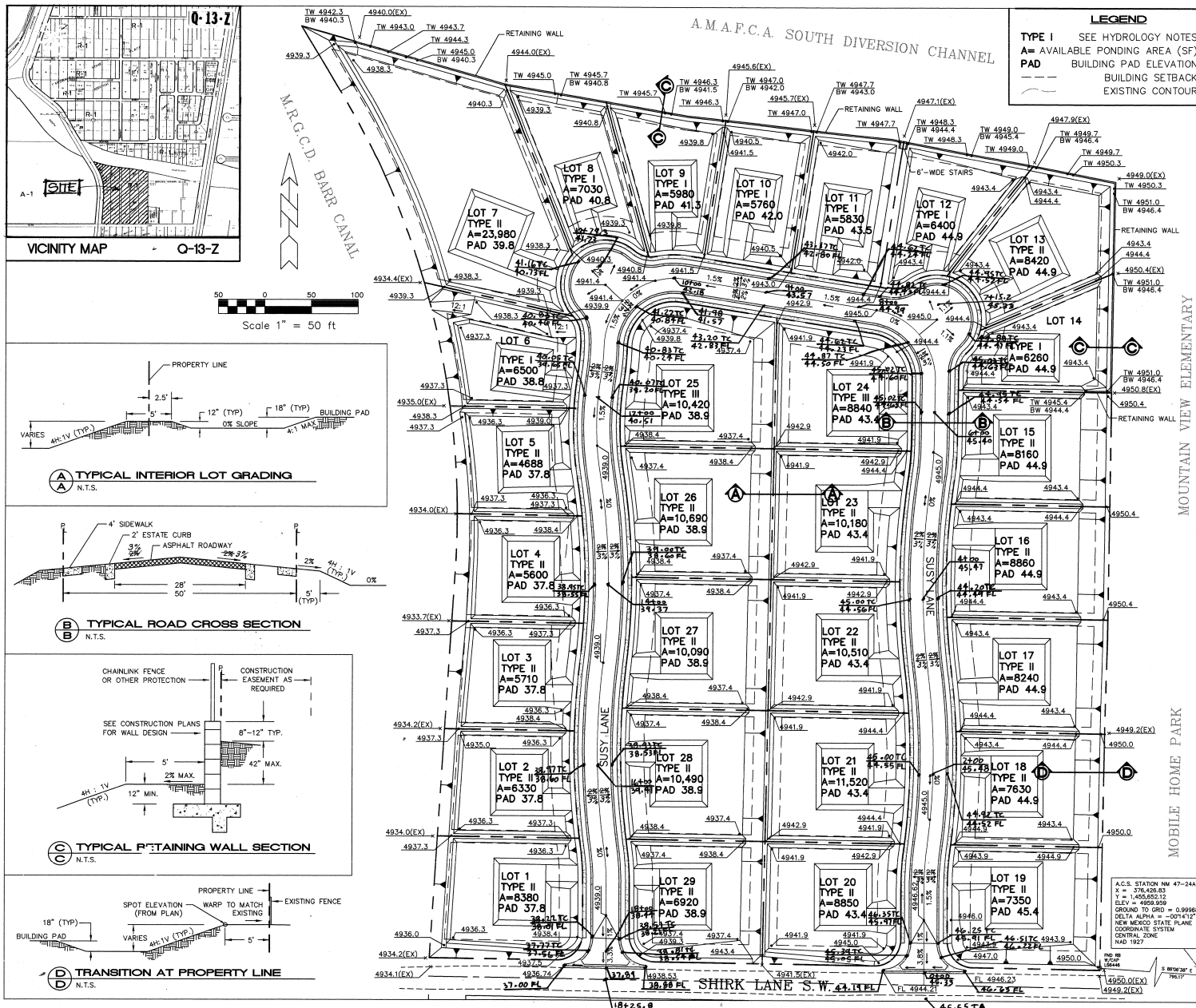


DRB 97-132



QUADADLE SOUTH SUBDIVISION

GRADING and DRAINAGE PLAN

PROJECT NO. 600381 MAP NO. Q-13-Z SHEET 3 OF 12

DATE 12/23/05

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

REGISTERED PROFESSIONAL ENGINEER

RESOURCES CONSULTING, INC.
ENGINEERS & ENVIRONMENTAL SCIENTISTS
CIVIL, ENVIRONMENTAL, WATER RESOURCES, RECREATION & PLANNING
2001 SHAW NE - SUITE 200 - ALBUQUERQUE, NEW MEXICO 87102
TELEPHONE - (505) 348-3115

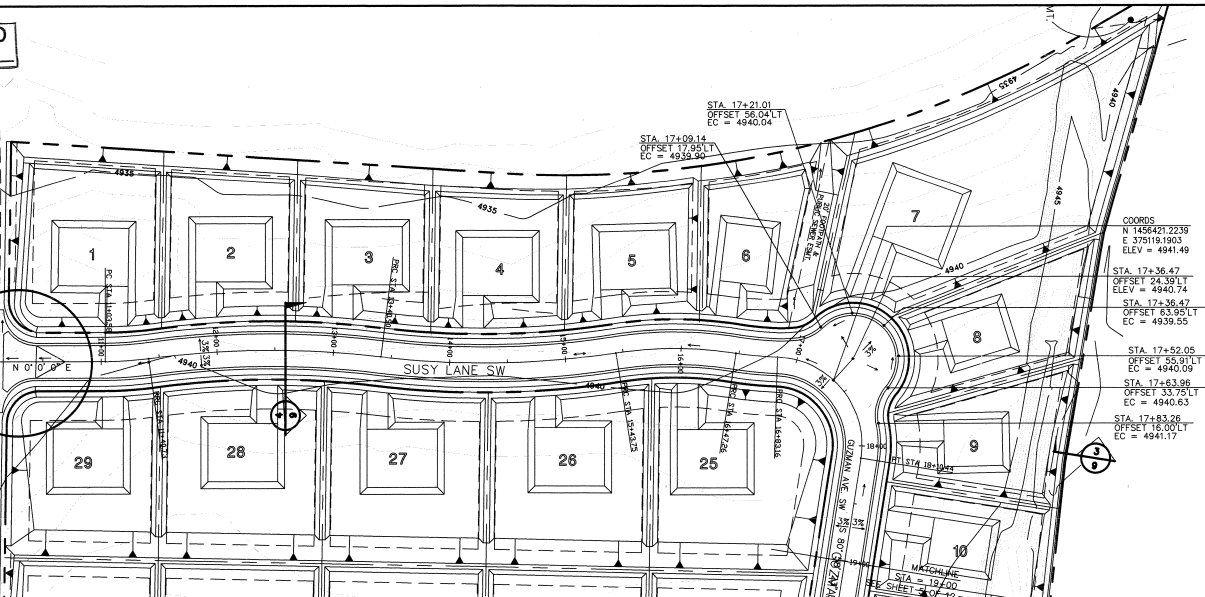
SCANNED
BY PLN

BARR ST.
S.W.

B.O.P. COORDS
N 1455691.7161
E 375102.8472

1
0

SHIRK LANE S.W.



COORDS
N 1456421.2239
E 3751191903
ELEV = 4941.49

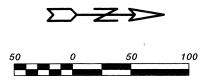
STA. 17+36.47
OFFSET 24.39' LT
ELEV = 4940.74

STA. 17+36.47
OFFSET 63.95' LT
EC = 4939.55

STA. 17+52.05
OFFSET 25.01' LT
EC = 4940.09

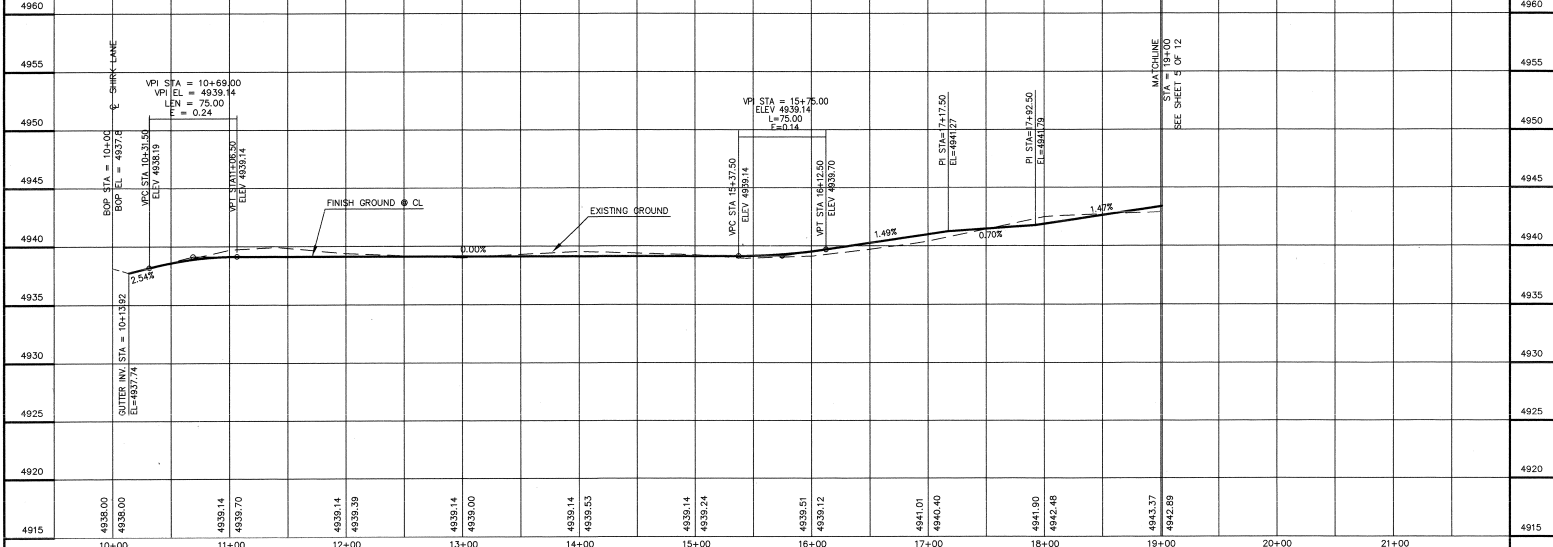
STA. 17+63.96
OFFSET 33.75' LT
EC = 4940.63

STA. 17+83.26
OFFSET 16.00' LT
EC = 4941.17



SUSY LANE SW

GUZMAN AVE. SW



NOTES:

1. REFER TO SHEET 2 OF 12 FOR HORIZONTAL CONTROL AND CURVE DATA.
2. REFER TO SHEET 9 OF 12 FOR TYPICAL ROAD CROSS SECTIONS.
3. CONSTRUCT PAVEMENT SECTION IN ACCORDANCE WITH BERNALILLO COUNTY STD. DWG.
4. CONSTRUCT 4' SIDEWALK ALONG NORTH R.O.W. OF SHIRK LANE IN ACCORDANCE WITH BERNALILLO COUNTY STD. DWG.
5. CONSTRUCT DRIVE PADS IN ACCORDANCE WITH BERNALILLO COUNTY STD. DWG.



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Telephone: (505) 243-7000 • Fax: (505) 243-7001 • Email: rtech@rtech.com
WWW: RTECH.COM • WATER RESOURCES • REMEDIATION • PLANNING

NO.	DATE	REVISION	BY

GUADALUPE SOUTH
SUBDIVISION

TITLE:

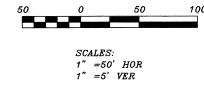
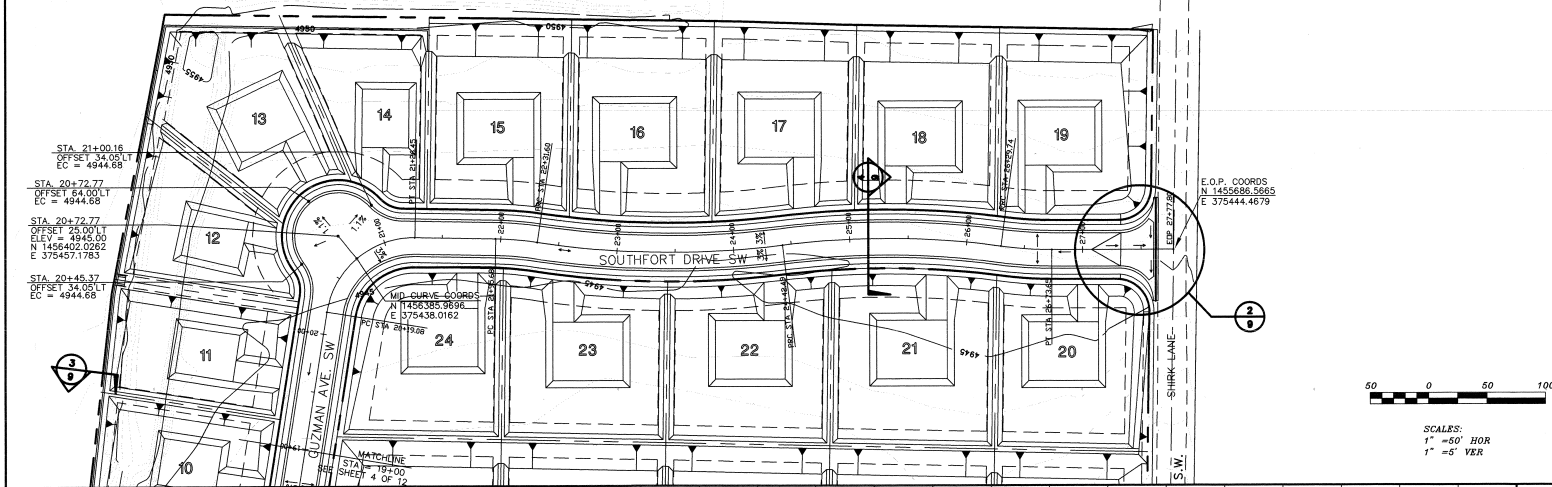
**SUSY LANE AND GUZMAN AVE.
STA. 10+00 (BOP) TO STA. 19+00
PAVING PLAN AND PROFILE**

PROJECT NO. **600381** MAP NO. **Q-13-Z** SHEET **4** OF **12**
CON-97-21

SCANNED
BY PLN

NOTES:

1. REFER TO SHEET 2 OF 12 FOR HORIZONTAL CONTROL AND CURVE DATA.
2. REFER TO SHEET 9 OF 12 FOR TYPICAL ROAD CROSS SECTIONS.
3. CONSTRUCT PAVEMENT SECTION IN ACCORDANCE WITH BERNALILLO COUNTY STD. DWG.
4. CONSTRUCT 4' SIDEWALK ALONG NORTH R.O.W. OF SHIRK LANE IN ACCORDANCE WITH BERNALILLO COUNTY STD. DWG.
5. CONSTRUCT DRIVE PADS IN ACCORDANCE WITH BERNALILLO COUNTY STD. DWG.



GUZMAN AVE. SW										SOUTHFORT DRIVE SW									
4965																			4965
4960																			4960
4955																			4955
4950																			4950
4945																			4945
4940																			4940
4935																			4935
4930																			4930
4925																			4925
4920																			4920
19+00	20+00	21+00	22+00	23+00	24+00	25+00	26+00	27+00	28+00	29+00									



NO.	DATE	REVISION	BY

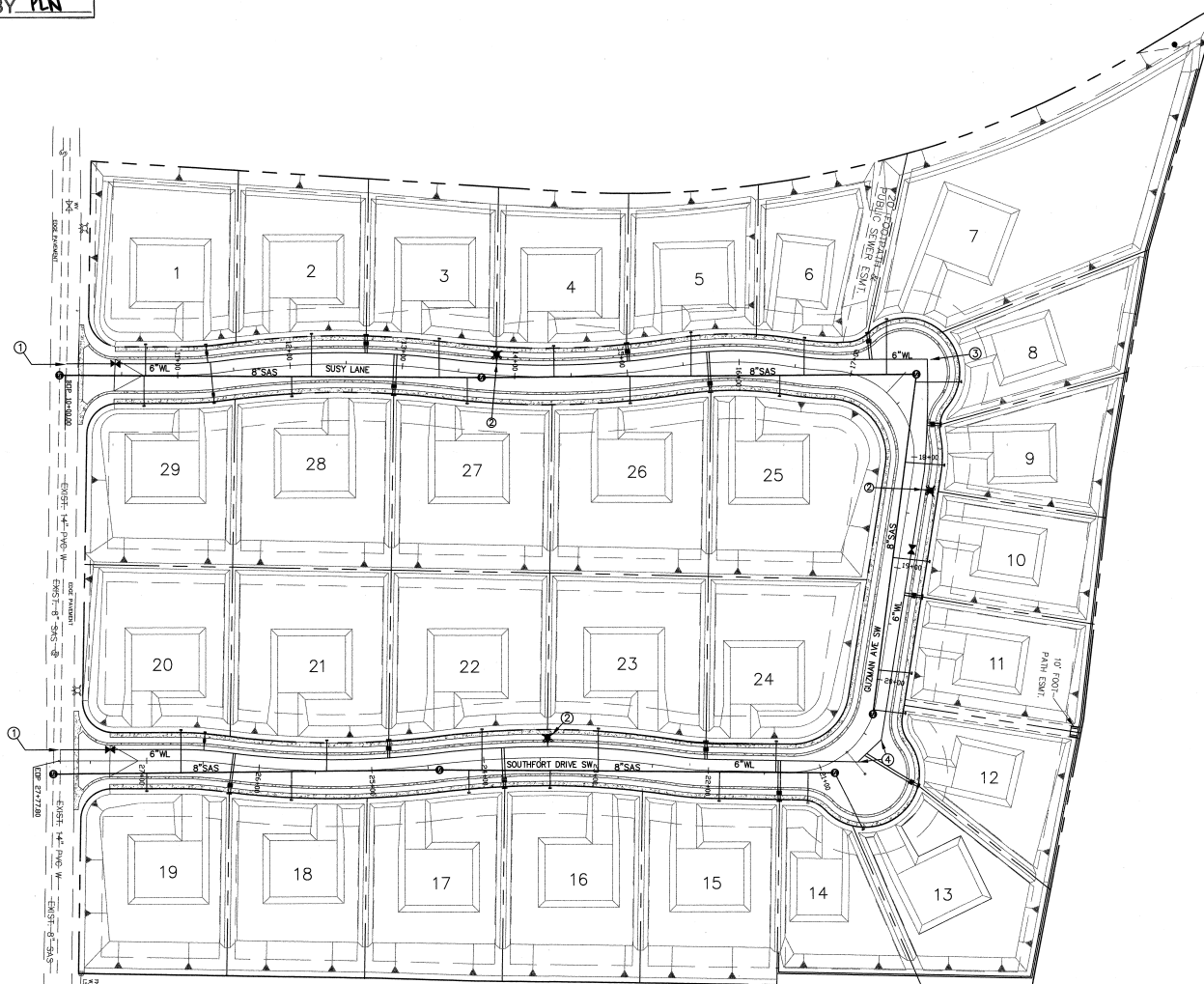
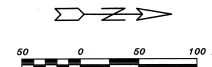
GUADALUPE SOUTH SUBDIVISION

TITLE:

**GUZMAN AVE. AND SOUTHFORT DRIVE
STA. 19+00 TO STA. 27+77.80 (EOP)
PAVING PLAN and PROFILE**

PROJECT NO. **600381** CON-97-21 MAP NO. **Q-13-Z** SHEET **5** OF **12**

SCANNED
BY: PLN



A.C.S. STATION NM 47-244
X = 376,426.83
Y = 1,455,652.12
ELEV = 4959.908
GROUND TO GRID = 0.9996803
DELTA ALPHA = -0.01412
NEW MEXICO STATE PLANE
COORDINATE SYSTEM
CENTRAL ZONE
NAD 1983

NOTES

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS

INSTALL SANITARY SEWER MANHOLE IN ACCORDANCE WITH C.O.A. STD. DRAWING 2102 AND SEWER SERVICE LINE IN ACCORDANCE WITH C.O.A. STD. DWG 2125.

INSTALL WATERLINE, METER BOXES, VALVE BOXES, AND FIRE HYDRANTS IN ACCORDANCE WITH THE FOLLOWING C.O.A. STANDARD DRAWINGS:

VALVE BOX STD. DWG 2326, 2328
METER BOX STD. DWG 2160-2168, INCLUSIVE
FIRE HYDRANT STD. DWG 2340
TRENCH STD. DWG 2315

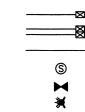
INSTALL METALLIC LOCATOR TAPE OVER WATERLINE IN ACCORDANCE WITH THE C.O.A. STD. SPECS.

REFER TO SHEET 2 OF 12 FOR CURVE DATA AND HORIZONTAL CONTROL.

1. INSTALL PRESSURE WATERLINE CONNECTION IN ACCORDANCE WITH C.O.A. STD. SPECIFICATIONS, MECHANICALLY RESTRAIN AT FITTING ONLY.
2. INSTALL FIRE HYDRANTS IN ACCORDANCE WITH C.O.A. STD. DWG. 2340. WATERLINE SHALL BE MECHANICALLY RESTRAINED FOR 34 FEET ON ALL SIDES OF THE FITTING.
3. MECHANICALLY RESTRAIN FOR 20 FEET ON EACH SIDE OF THE FITTING.
4. MECHANICALLY RESTRAIN FOR 10 FEET ON EACH SIDE OF THE FITTING.

LEGEND

SINGLE WATER SERVICE (3/4")
DOUBLE WATER SERVICE (3/4")
SEWER SERVICE (4")
SANITARY SEWER MANHOLE
WATERLINE VALVE
FIRE HYDRANT W/VALVE



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12015 UNIVERSITY BL. SE • Albuquerque, New Mexico 87106
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WWW.RESOURCE-TECH.COM • 800-541-8888

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

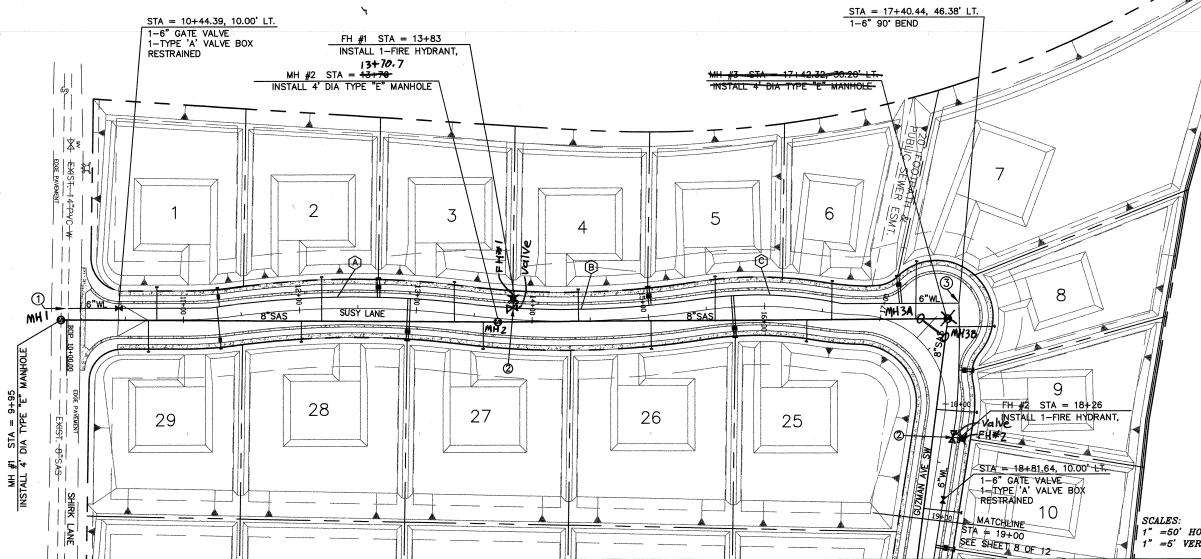
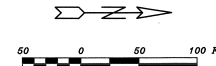
TITLE:
STA. 10+00 TO STA. 27+77.80
MASTER UTILITY PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			TRAFFIC		
OTHER			OTHER ENGINEER		

PROJECT NO. 600381 MAP NO. Q-13-Z SHEET 6 OF 12
CON-97-21

ENGINEERS SEAL				SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
DESIGNED BY G.N. MOSES		DATE OCT 1998		REMARKS REVISIONS		FIELD NOTES		CONTRACTOR	
						NO.	BY	DATED BY	DATE
DRAWN BY R.H.		DATE OCT 1998		BY		LOCATED 5.4 MILES SOUTH ON SECOND FROM INTERSECTION OF FIRST AND SECOND, 29' EAST OF CENTERLINE OF SECOND STREET.		DESIGNED BY G.N. MOSES	
						X= 376,426.83		DATED BY	
						Y= 1,455,652.12		DATE	
						ELEV. = 4959.859		MICRO-FILM INFORMATION	
								RECORDED BY	
								DATE	
								NO.	

SCANNED
BY PLN



LOT #	WATER SERVICE		SEWER SERVICE	
	STATION	OFFSET	STATION	INV @
1	11+35	17' LT	10+77	492.99
2	12+68	17' LT	12+20	493.61
3	12+69	17' LT	13+30	493.54
4	15+05	17' LT	14+40	493.22
5	15+04	17' LT	15+58	493.24
6	17+11	33' LT	17+55	493.55
7	17+11	33' LT	17+23	493.55
8	17+68	20' LT	17+40	493.67
9	17+69	20' LT	18+05	496.43
10	19+22	17' LT	18+90	493.23
25	15+75	17' RT	16+40	493.45
26	17+76	17' RT	17+30	493.15
27	12+93	17' RT	13+60	493.15
28	12+94	17' RT	12+00	493.82
29	11+30	17' RT	10+70	492.87

CURVILINEAR WATERLINE

(A) $\Delta = 16^{\circ}00'44''$
R = 785.00'
L = 219.38'

(B) $\Delta = 16^{\circ}01'53''$
R = 715.00'
L = 200.06'

(C) $\Delta = 21^{\circ}22'21''$
R = 335.00'
L = 124.96'

(D) $\Delta = 16^{\circ}45'53''$
R = 785.00'
L = 229.69'

(E) $\Delta = 16^{\circ}26'29''$
R = 715.00'
L = 205.17'

LEGEND

SINGLE WATER SERVICE (3/4")
DOUBLE WATER SERVICE (3/4")
SEWER SERVICE (4")
SANITARY SEWER MANHOLE
WATERLINE VALVE
FIRE HYDRANT W/VALVE

NOTES

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING
UTILITY LOCATIONS AND ELEVATIONS

INSTALL SANITARY SEWER MANHOLE IN ACCORDANCE WITH C.O.A.
STD. DRAWING 2102 AND SEWER SERVICE LINE IN ACCORDANCE
WITH C.O.A. STD. DWG 2125.

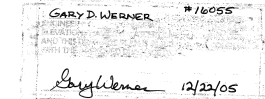
INSTALL WATERLINE, METER BOXES, VALVE BOXES, AND FIRE
HYDRANTS IN ACCORDANCE WITH THE FOLLOWING C.O.A.
STANDARD DRAWINGS:

VALVE BOX	STD. DWG 2326, 2328
METER BOX	STD. DWG 2160-2168, INCLUSIVE
FIRE HYDRANT	STD. DWG 2340
TRENCH	STD. DWG. 2315

INSTALL METALLIC LOCATOR TAPE OVER WATERLINE IN ACCORDANCE WITH THE C.O.A. STD. SPECS.

REFER TO SHEET 2 OF 12 FOR CURVE DATA
AND HORIZONTAL CONTROL.

- ① PRESSURE WATERLINE CONNECTION IN ACCORDANCE WITH C.O.A. STD. SPECIFICATIONS. USE 6"x14"x14" TAPPING TEE. RESTRAIN 20 FEET EACH SIDE OF FITTING. BLOCKING REQUIRED.
- ② INSTALL FIRE HYDRANTS IN ACCORDANCE WITH C.O.A. STD. DWG. 2340. WATERLINE SHALL BE MECHANICALLY RESTRAINED FOR 34 FEET ON ALL SIDES OF THE FITTING.
- ③ MECHANICALLY RESTRAIN FOR 20 FEET ON EACH SIDE OF THE FITTING.



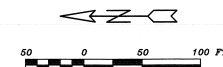
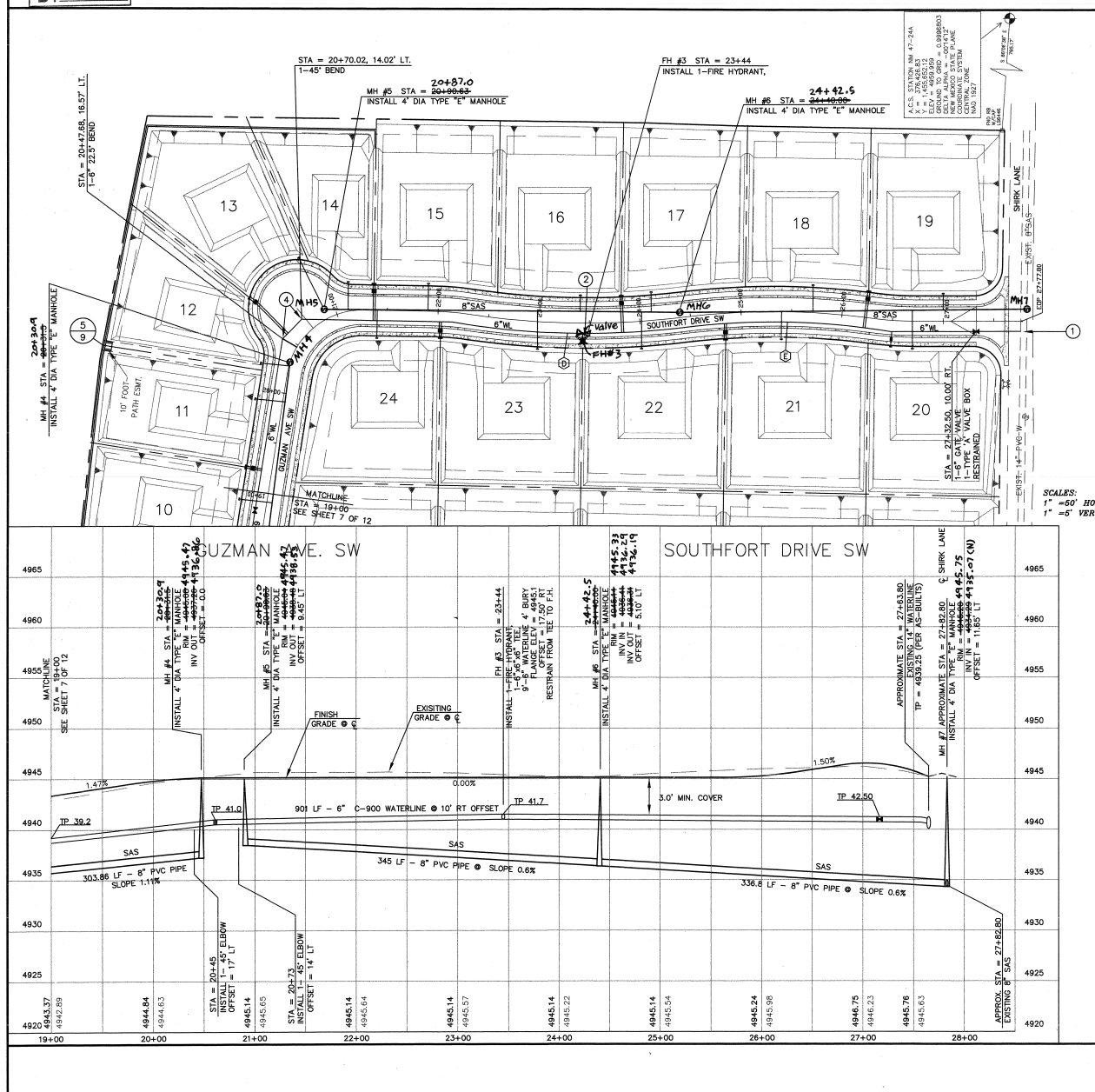
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUSY LANE AND GUZMAN AVE.
STA. 10+00 (BOP) TO STA. 19+00
UTILITY PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		1999	WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			TRAFFIC OPER.		
OTHER			OTHER	ENGINEER	
PROJECT NO.	600381	MAP NO.	Q-13-Z	SHEET	7 OF 12

ENGINEERS SEAL						SURVEY INFORMATION		BENCH MARKS		AST-BUILT INFORMATION	
		NO.		BY		DATE		A.C.S. BRASS TABLE STAMPED "NM 47-54"		CONTRACTOR	
									LOCATED 5.4 MILES SOUTH ON SECOND FROM INTERSECTION OF FIRST AND SECOND, 2 ND EAST OF CENTERLINE OF HIGHWAY 101.	SIGNED BY [Signature]	DATE
									LOCALITY: Sec 37E, Range 8S,	DRAWN BY [Signature]	DATE
									Elev = 1,455.652, 12	CHECKED BY [Signature]	DATE
									ELEV = 4959.859	RECORDED BY [Signature]	DATE
										MICRO-FILM INFORMATION	
										NO.	

SCANNED
BY: PLN



LOT #	WATER SERVICE		SEWER SERVICE	
	STATION	OFFSET	STATION	INV. @ P.
11	19+22	27' LT	19+90	4938.21
12	20+50	49' LT	20+28	4938.58
13	20+51	49' LT	20+91	4940.90
14	21+37	27' LT	21+15	4939.75
15	22+38	27' LT	21+90	4939.27
16	23+83	27' LT	23+40	4938.05
17	23+84	27' LT	24+20	4937.71
18	26+23	27' LT	25+70	4936.94
19	26+24	27' LT	27+00	4935.88
20	26+50	27' RT	26+70	4936.70
21	24+85	27' RT	25+40	4937.17
22	24+86	27' RT	24+00	4938.34
23	22+02	27' RT	23+00	4938.98
24	22+03	27' RT	21+40	4939.60

CURVILINEAR WATERLINE

A $\Delta = 16'00'44''$
 R = 785.00'
 L = 219.36'
 B $\Delta = 16'01'53''$
 R = 715.00'
 L = 200.08'
 C $\Delta = 21'22'21''$
 R = 335.00'
 L = 124.96'
 D $\Delta = 16'45'53''$
 R = 785.00'
 L = 229.69'
 E $\Delta = 16'28'29''$
 R = 715.00'
 L = 205.17'

LEGEND

- SINGLE WATER SERVICE (3/4")
- DOUBLE WATER SERVICE (3/4")
- SEWER SERVICE (4")
- SANITARY SEWER MANHOLE
- WATERLINE VALVE
- FIRE HYDRANT W/VALVE

NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS
- INSTALL SANITARY SEWER MANHOLE IN ACCORDANCE WITH C.O.A. STD. DRAWING 2102 AND SEWER SERVICE LINE IN ACCORDANCE WITH C.O.A. STD. DWG. 2125.
- INSTALL WATERLINE, METER BOXES, VALVE BOXES, AND FIRE HYDRANTS IN ACCORDANCE WITH THE FOLLOWING C.O.A. STANDARD DRAWINGS:
- VALVE BOX STD. DWG. 2326, 2328
 - METER BOX STD. DWG. 2160-2168, INCLUSIVE
 - FIRE HYDRANT STD. DWG. 2340
 - TRENCH STD. DWG. 2315
- INSTALL METALLIC LOCATOR TAPE OVER WATERLINE IN ACCORDANCE WITH THE C.O.A. STD. SPECS.
- REFER TO SHEET 2 OF 12 FOR CURVE DATA AND HORIZONTAL CONTROL.
- PRESSURE WATERLINE CONNECTION IN ACCORDANCE WITH C.O.A. STD. SPECIFICATIONS. USE 6"x14"x14" TAPPING TEE. RESTRAIN 20 FEET EACH SIDE OF FITTING. BLOCKING REQUIRED.
 - INSTALL FIRE HYDRANTS IN ACCORDANCE WITH C.O.A. STD. DWG. 2340. WATERLINE SHALL BE MECHANICALLY RESTRAINED FOR 34 FEET ON ALL SIDES OF THE FITTING.
 - MECHANICALLY RESTRAIN FOR 20 FEET ON EACH SIDE OF THE FITTING.
 - MECHANICALLY RESTRAIN FOR 10 FEET ON EACH SIDE OF THE FITTING.

GARY D. WERNER
#16055
12/23/05

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ENGINEERS AND ENVIRONMENTAL SCIENTISTS
17701 - Research Rd. S.E. • Albuquerque, New Mexico 87105
Telephone: (505) 243-7000 • Fax: (505) 243-7000 • E-mail: info@resource-tech.com
WEB: WWW.RESOURCE-TECH.COM • 800-850-8888

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: GUZMAN AVE. AND SOUTHFORT DRIVE
STA. 19+00 TO STA. 27+77.80 (EOP)
UTILITY PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Check			WATER		
TRANS. DES.			WASTE WATER		
HYDROLOGY			TRAFF. OPER.		
OTHER			OTHER		

PROJECT NO. 600381
CON-97-21

MAP NO. 9-13-Z

SHEET 8 OF 12

AS-BUILT INFORMATION

CONTRACTOR: _____

DATE: _____

BY: _____

DATE: _____

REVISIONS:

NO.	DATE	REMARKS
1	12/23/05	DESIGN

DESIGNED BY: G.D.W. DATE: OCT 1998
DRAWN BY: R.H. DATE: OCT 1998
CHECKED BY: E.D. DATE: OCT 1998

This plan view illustrates the proposed road widening and intersection improvements at Shirk Lane. The diagram shows the existing road alignment and the proposed widened sections. Key features include:

- Proposed Road Widening:** Indicated by dashed lines showing the expansion of the roadway.
- Intersection Improvements:** Shown at the intersection with Shirk Lane, including proposed curb extensions and sidewalk modifications.
- Stationing:** Station points are marked along the road centerline, such as PT STA 26+73.65, 27+00, and EOP 27+77.80.
- Elevation Data:** Spot elevations are provided for various points, including 4941.9, 4945.0, 4944.31, 4944.31, FL 4944.21, 4946.33, 4946.37, 4946.52, 4946.33, 4946.0, 4943.9, 4947.0, 4946.33, FL 4946.23, and 4946.33.
- Curbs and Sidewalks:** Labels indicate "ESTATE CURB (TYP.)" and "SIDEWALK (TYP.)".
- Lot Numbers:** Lot 20 and Lot 19 are identified on either side of the road.
- Shirk Lane:** Labeled at the bottom of the drawing.

1.5' FROM BACK OF WALL TO AMAFCA PROPERTY LINE ON NORTH SIDE OF PROJECT SITE

10' FROM BACK OF WALL TO SCHOOL PROPERTY LINE ON EAST SIDE OF PROJECT SITE

4' CHAIN LINK FENCE

CAP STONE 4"x8"x16"

BOND BEAM W/ #4 BAR

FINISH GRADE

GROUT FILLED TO TOP OF BOND BEAM

8"x8"x16" CONCRETE MASONARY UNIT (TYP.)

3.5' MAX. WEEP HOLES 10' CC, 1" PVC

FINISH GRADE

1.5' MIN.

8" 3/4" GRAVEL DRAINAGE ROCK, W/FILTER FABRIC

#6 BARS, 16" CC

CAST-IN-PLACE CONCRETE

#6 BARS, 12" CC

#6 BARS

2.5' MIN

2.5' MIN

1.0'

0.5'

1.0' 1.0' 1.5'

RETAINING WALL NOTES

1. ALL STEEL SHALL BE GRADE
2. ALL CONCRETE 3500 psi COM
3. WATERPROOF WALL ON RETAI
4. SEE GEOTECHNICAL REPORT
5. 1/2" CONTROL JOINTS SHALL
6. IF SPLICED BARS ARE USED,

1. ALL STEEL SHALL BE GRADE 60
2. ALL CONCRETE 3500 psi COMP. STRENGTH, MIN.
3. WATERPROOF WALL ON RETAINED EARTH SIDE TO FINISHED GRADE.
4. SEE GEOTECHNICAL REPORT FOR WALL FOOTING SUBGRADE PREP AND WALL BACKFILL REQUIREMENTS.
5. 1/2" CONTROL JOINTS SHALL BE PROVIDED AT 48' INTERVALS FOR BOTH WALL AND FOOTINGS.
6. IF SPLICED BARS ARE USED, MINIMUM LAP LENGTH IS 24".
7. CONSTRUCTION LICENSE FROM AMAFCA REQUIRED FOR WALL PRIOR TO START OF CONSTRUCTION. CALL AMAFCA AT 884-2215.
8. BUILD 4' CHAIN LINK FENCE AS PER STD. DWG 2252 AT 6" BENCHING RETAINING WALL ON NORTH SIDE OF SITE.

DATE _____

4' SIDEWALK
BERNALILLO COUNTY
STD. DWG 2430

2' ESTATE CURB
BERNALILLO COUNTY
STD. DWG 2415

ASPHALT ROADWAY

CONSTRUCT PAVEMENT SECTION IN
ACCORDANCE WITH BERNALILLO COUNTY
STD. DWG 2406

3%

3%

3%

4' (TYP)

0%

28' 50"

5' (TYP)

PROPOSED CURB

FINISH GRADE

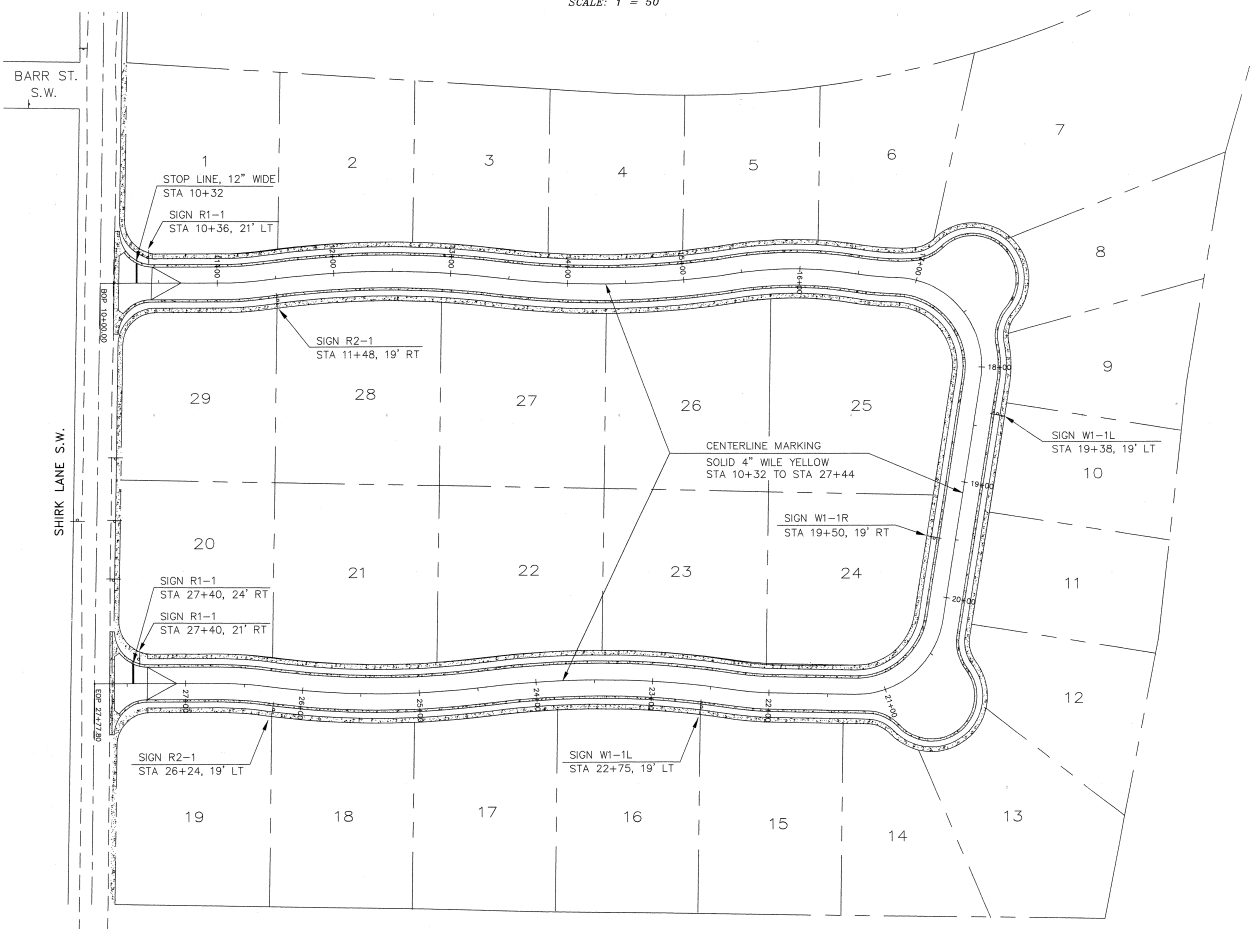
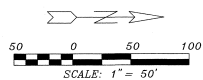
PRECAST CONCRETE STEPS
WITH SAFETY RAILING

HEIGHT
4.0' ±
SEE NOTE

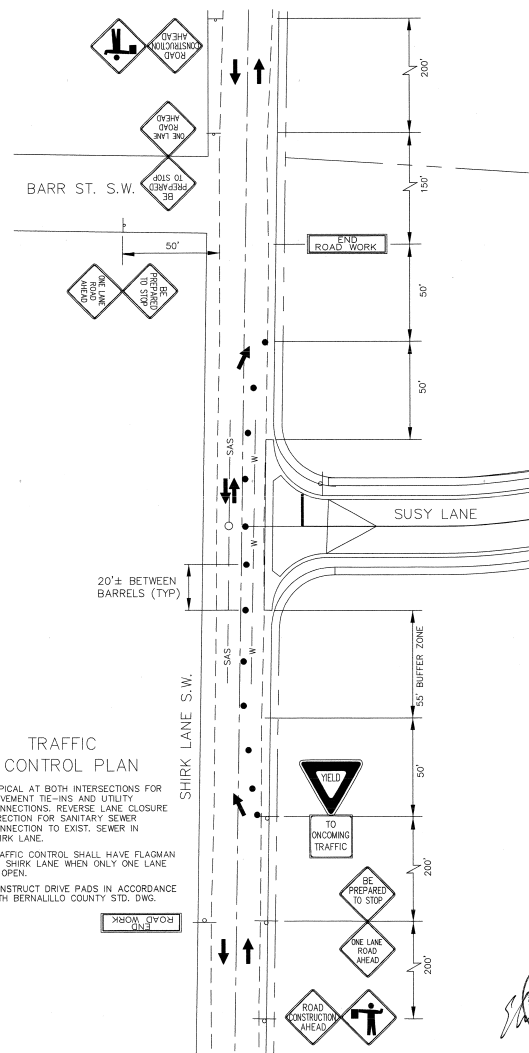
5 PRECAST CONCRETE STEPS DETAIL
9 SCALE: N.T.S.

PROJECT NO	600381 CON-97-21	MAP NO	Q-13-Z	SHEET	9	OF	12
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BARR ST.
S.W.



SIGNING & PAVEMENT MARKING PLAN

TRAFFIC
CONTROL PLAN

TYPICAL AT BOTH INTERSECTIONS FOR
PAVEMENT TIE-INS AND UTILITY
CONNECTIONS. REVERSE LANE CLOSURE
DIRECTION FOR SANITARY SEWER
CONNECTION TO EXIST. SEWER IN
SHIRK LANE.

TRAFFIC CONTROL SHALL HAVE FLAGMAN
ON SHIRK LANE WHEN ONLY ONE LANE
IS OPEN.

CONSTRUCT DRIVE PADS IN ACCORDANCE
WITH BERNALILLO COUNTY STD. DWG.



STOP SIGN
R1-1



SPEED LIMIT
R2-1



TURN SIGN
W1-1R



TURN SIGN
W1-1L

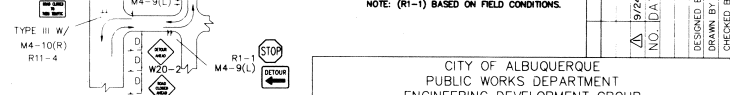
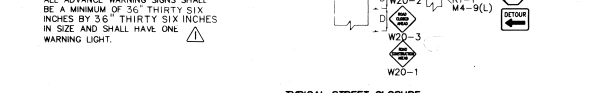
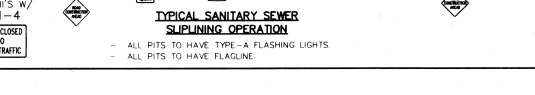
Resource Technology, Inc.
ENGINEERS AND ENVIRONMENTAL SCIENTISTS
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CIVIL • ENVIRONMENTAL • WATER RESOURCES • RECREATION • PLANNING

TITLE:

GUADALUPE SOUTH
SUBDIVISION

SIGNING, PAVEMENT MARKING
AND TRAFFIC CONTROL PLAN[illegible]

PROJECT NO.	600381 CON-97-21	MAP NO.	Q-13-Z	SHEET	10	OF	12
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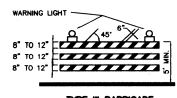


CITY OF ALBUQUERQUE			
PUBLIC WORKS DEPARTMENT			
ENGINEERING DEVELOPMENT GROUP			
TITLE			
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE	MILEAGE
COA Standard	LAST UPDATE		
PROJECT NO.	MAP NO.	SHEET	OF
600381	Q-13	11	12

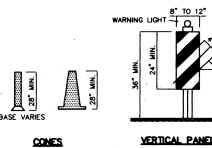
CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADE PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITHIN THE UNDERSTANDING THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

- EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE MUTCD.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



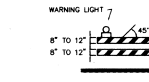
TYPE II BARRICADE



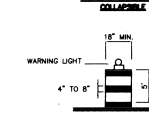
VERTICAL PANEL



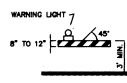
HIGH LEVEL WARNING DEVICE



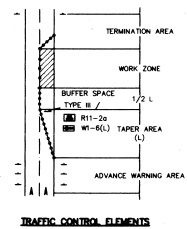
TYPE II BARRICADE



BARRICADE



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH - SEE CHART BELOW

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		BEFORE TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING (D) FOR ADVANCE WARNING SIGN SERIES

SPEED PER HOUR	MINIMUM DISTANCE IN FEET	
	WILES BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

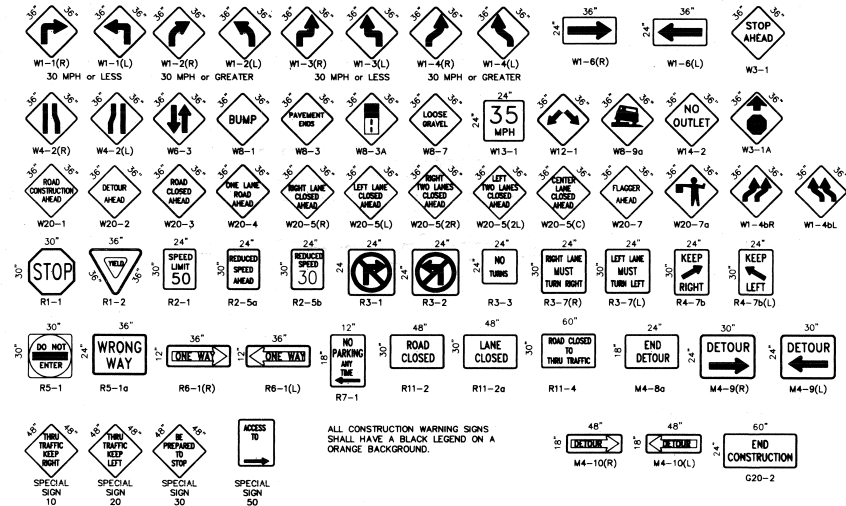
UPSTREAM TAPER	TAPER LENGTH
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	W = WIDTH OF OFFSET IN FEET	L = TAPER LENGTH
40 MPH OR LESS	L = 85' / 2	
45 MPH OR GREATER	L = W x S	

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS**

DESIGN REVIEW COMMITTEE: **COA Standard**

PROJECT NO: **600381** MAP: **Q-13** SHEET: **12** OF **12**