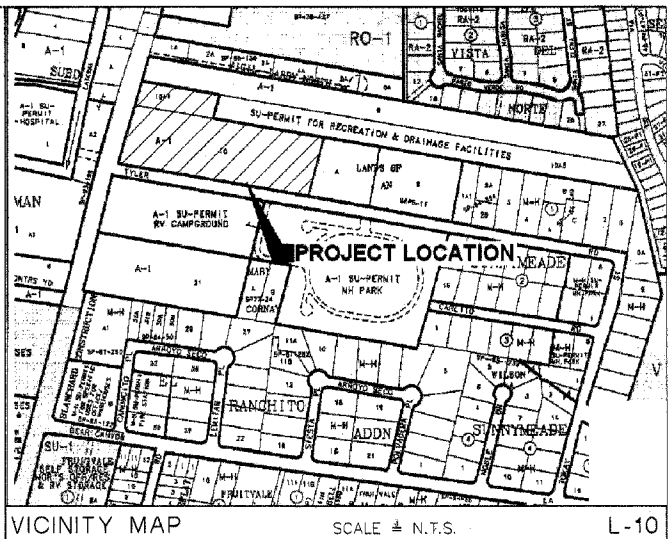


# LA SALIDA DEL SOL ESTATES

TYLER ROAD N.E & BRIANNA LOOP N.E.  
UTILITY IMPROVEMENTS

ALBUQUERQUE, NEW MEXICO

JULY 19, 2007



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APPROVED:  10 Aug 07  
BERNALILLO COUNTY PUBLIC WORKS DATE

PWCO# 70006

**ABQ**  
Engineering, Inc

Engineers • Planners • Construction Services  
8789 Academy Rd. NE, Suite 130 Albuquerque, NM 87109  
505-255-7802 FAX 505-255-7802 ABQ Project: 28124

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		NA		APPROVED FOR CONSTRUCTION	
		Transportation		NA			
		Water/Wastewater		William J. Bales 7/24/07			
		Hydrology		NA			
		Parks		NA			
		Constr. Coord.		NA			
		Envir. Health		NA			
		City Project No.		745682		Sheet 1 of 12	

CAUTION:  
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.



General Notes

1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
2. PRIOR TO ANY 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 THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
3. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
4. THE 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 UPDATE NO. 7.
5. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE BERNALILLO COUNTY TRAFFIC ENGINEER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. PLANS SHALL BE PREPARED IN ACCORDANCE WITH MUTCD REQUIREMENTS AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT.
6. SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC ON ALL AFFECTED ROADS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE AND PUBLIC PROPERTY AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.
7. TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
8. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE BERNALILLO COUNTY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.
9. THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE NM DEPT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, LATEST EDITION. FOR UTILITY SPECIFICATIONS, SEE NOTE 25.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

11. ALL WATER VALVE BOXES MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
12. SUBGRADE PREPARATIONS UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.
13. ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
14. ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
15. WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING PER BERNALILLO COUNTY STD DWG 2465. CONTRACTOR SHALL CONTACT BCPWD (848-1500) TO REQUEST AN INSPECTOR TO VERIFY CONTRACTOR WILL MAKE ALL WATER VALVES ACCESSIBLE TO ALBUQUERQUE/BERNALILLO COUNTY WATER AUTHORITY AT ALL TIMES.
16. CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.
17. THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.
18. TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE FIELD ENGINEER.
19. PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
20. ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.
21. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
22. CONTRACTOR SHALL COORDINATE WITH ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) (857-8200) SEVEN (7) WORKING DAYS PRIOR TO UTILITY EXCAVATION OR ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. EXISTING VALVES TO BE OPERATED BY ABCWUA PERSONNEL ONLY.
23. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
24. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
25. THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO. 7.

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 ENGINEER.
- ☐ SIDEWALK 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.
- ☒ THE REQUESTER OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGE AFTER APPROVAL BY THE CITY ENGINEER OR WORK COMPLETED BY THE CONTRACTOR.

<b>ABQ</b> Engineering, Inc.		Engineers • Planners Construction Services 6730 Academy Rd NE, Suite 130 Albuquerque, NM 87109 505-255-7802 FAX 505-255-7902 ABQ NO. 26124	
<b>CITY OF ALBUQUERQUE</b> PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
LA SALIDA DEL SOL ESTATES GENERAL NOTES			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
William G. Phillips 7/24/2007	[Signature]		
City Project No.	745682	Zone Map No.	E-16
County Project No.	70006	SHEET	2 OF 12

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION MARK IS A STANDARD A.C.S. BRASS TABLET STAMPED	DATE	FIELD NOTES	NO.		DESIGNED BY M. GARCIA DATE 7/19/2007 DRAWN BY F. PHILLIPS DATE 7/19/2007 CHECKED BY M. GARCIA DATE 7/19/2007
WORK STAMPED BY	DATE	(AMARCA RIGHT-OF-WAY MARKER) "N/A-B" SET IN CONCRETE	DATE	BY	REMARKS		
INSPECTOR'S FIELD VERIFICATION BY	DATE	ALONG THE NORTH DIRECTION CHANNEL	DATE				
CONTRACTOR'S FIELD VERIFICATION BY	DATE	X = 39.902.01 Y = 151713.15 Z = 5076.0 (TRICNOMETRIC ELEV)	DATE				



PLAT OF  
LA SALIDA DEL SOL ESTATES

FORMERLY TRACT 10 & 10A-1  
WITHIN PROTECTED SEC. 27, T11N, R3E, N.M.P.M.  
BERNALILLO COUNTY, NEW MEXICO  
NOVEMBER 2006

CASE NUMBER: SC 60026

Application Number: \_\_\_\_\_

PLAT APPROVAL

\*\*\* Utility Approval: \_\_\_\_\_

PNM Electric Services \_\_\_\_\_

PNM Gas Services \_\_\_\_\_

OWEST Telecommunications \_\_\_\_\_

Comcast \_\_\_\_\_

COUNTY APPROVALS:

Bernalillo County Development \_\_\_\_\_

Review Authority: Chair \_\_\_\_\_

Bernalillo County Zoning \_\_\_\_\_

Bernalillo County Fire Marshal's Office \_\_\_\_\_

Bernalillo County Environmental Health \_\_\_\_\_

Bernalillo County Public Works \_\_\_\_\_

City of Albuquerque Surveyor \_\_\_\_\_

AMATCA \_\_\_\_\_

Surveyor's Certification

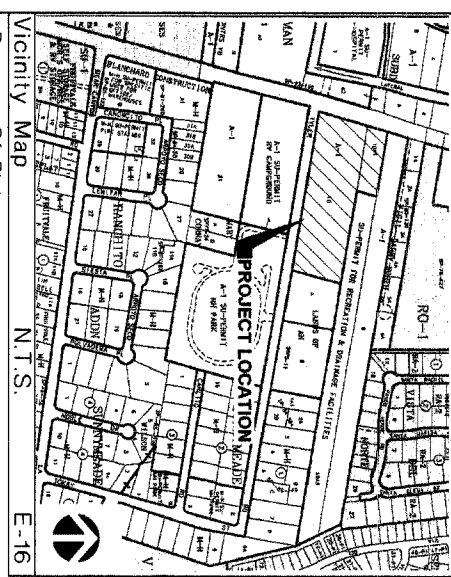
I, DAVID R. VIGIL, A NEW MEXICO PROFESSIONAL SURVEYOR, NUMBER 8911, HEREBY CERTIFY THAT THIS PLAT OF SURVEY WAS PREPARED FROM FIELD NOTES OF ACTUAL GROUND SURVEY PERFORMED BY ME AND/OR OTHER SURVEYORS IN THE STATE OF NEW MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL SURVEYORS. THAT IT COMPLIES WITH THE REQUIREMENTS CONTAINED IN THE BERNALILLO COUNTY SUBDIVISION ACT AND THE BERNALILLO COUNTY SUBDIVISION ACT, AND THAT I HAVE MADE KNOWN TO ME BY THE OWNERS AND/OR PROPRIETORS SHOWN HEREON, TITLE COMPANIES, UTILITY COMPANIES OR OTHER PARTIES EXPRESSING INTEREST AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DAVID R. VIGIL, N.M.P.S. 8911



NORTH STAR SURVEYING  
1240 Shupard Rd. S.W., Albuquerque, N.M. 87106  
Office: 505.877.5499 Fax: 505.462.0261  
Mobile: 505.980.0465

SHEET 1 OF 2



Purpose of Plat

THE PURPOSE OF THIS PLAT IS TO SUBDIVIDE THE EXISTING TRACT INTO 19 LOTS AND 3 TRACTS TO CREATE LA SALIDA DEL SOL ESTATES, AND DEDICATE RIGHT-OF-WAY AND GRANT EASEMENTS AS SHOWN HEREON.

Free Consent and Dedication

THE SUBDIVISION HEREON DESCRIBED IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE UNDERSIGNED OWNERS (AND/OR PROPRIETORS), THE OWNERS DEDICATE PUBLIC RIGHT-OF-WAY AS SHOWN HEREON TO BERNALILLO COUNTY WITH WARRANTY COVENANT SAID OWNER WARRANTS THAT HE HOLDS COMPLETE AND INTERFERABLE TITLE IN FEE SIMPLE TO THE LAND SUBDIVIDED.

GILBERT LOVATO, OWNER

STATE OF NEW MEXICO }  
COUNTY OF BERNALILLO } SS  
ON THIS DAY OF 2006, THE FOREGOING INSTRUMENT  
WAS ACKNOWLEDGED BEFORE ME BY OWNER

NOTARY PUBLIC DATE

MY COMMISSION EXPIRES: \_\_\_\_\_

General Notes

- ALL THE BEARING BASE FOR THIS PLAT IS MONUMENT NAA-8. ALL DISTANCES ARE GROUND DISTANCES UNLESS NOTED OTHERWISE. BEARINGS ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD 1927).
- RECORDED PLAT FILED ON APRIL 23, 1999 IN BOOK 9906, PAGE 14409 FILED IN THE OFFICE OF THE COUNTY OF BERNALILLO COUNTY, NEW MEXICO.
- GROSS ACREAGE: 7.4417 AC
- NUMBER OF EXISTING TRACTS: 2
- NUMBER OF LOTS CREATED: 19 LOTS, 3 TRACTS
- PUBLIC UTILITY EASEMENTS (PUE) SHOWN ON THIS PLAT ARE FOR THE COMMON AND JOINT USE OF UTILITIES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - PNM ELECTRIC SERVICES FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, POLES AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICE.
  - PNM GAS SERVICES FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES, INCLUDING BUT NOT LIMITED TO ABOVE GROUND PEDESTAL ENCLOSURES.
  - COMCAST CABLE FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF UNDERGROUND LINES, CABLES AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE TV SERVICES.
  - OWEST COMMUNICATIONS FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF SUCH LINES, CABLES AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES, INCLUDING BUT NOT LIMITED TO ABOVE GROUND PEDESTAL ENCLOSURES.

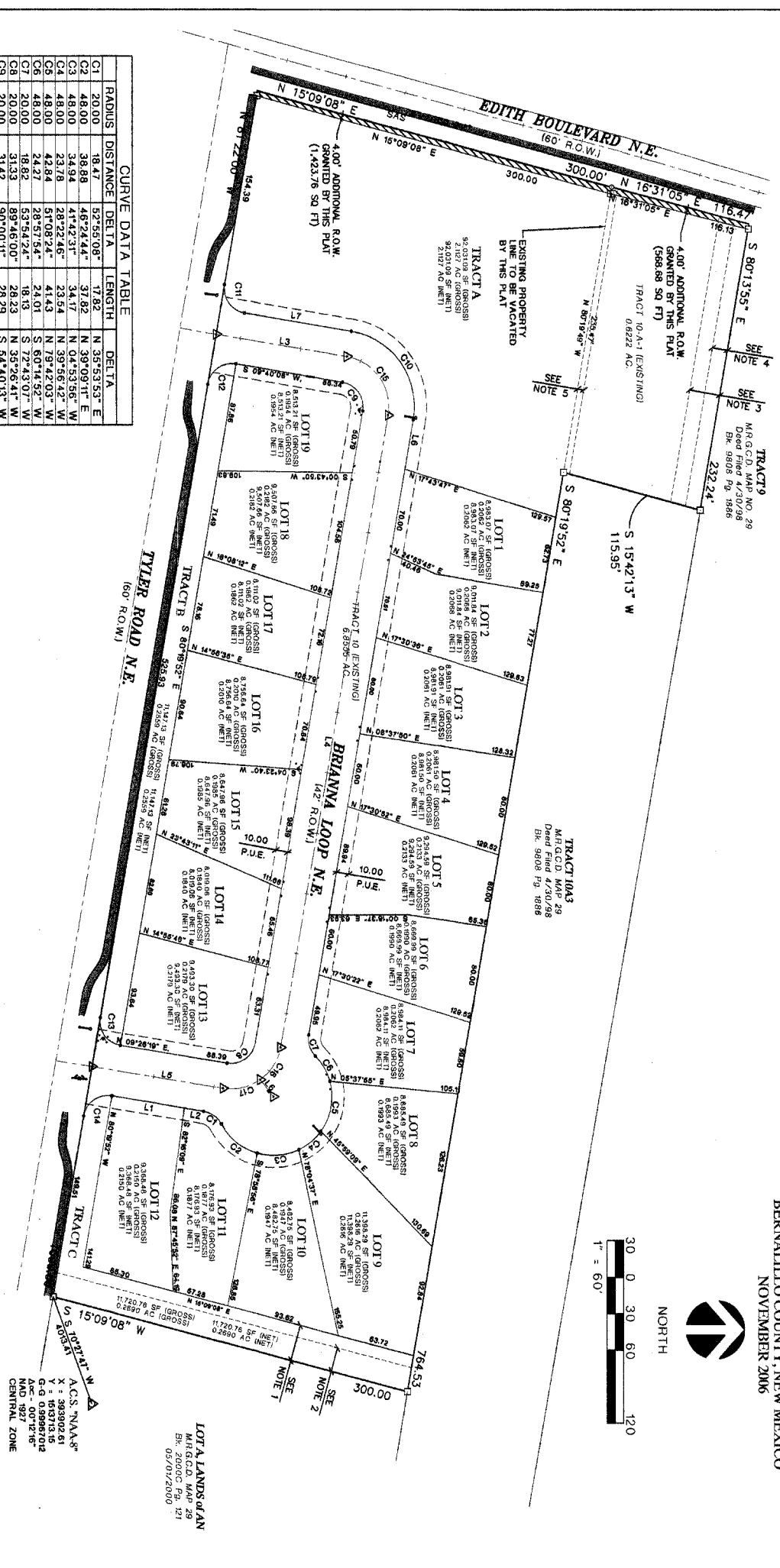
- INCLUDED IS THE RIGHT TO BUILD, REBUILD, CONSTRUCT, RECONSTRUCT, LOCATE, RELOCATE, CHANGE, REMOVE, MODIFY, RENEW, OPERATE AND MAINTAIN FACILITIES FOR THE PURPOSE DESCRIBED ABOVE, TOGETHER WITH FREE ACCESS TO, FROM AND OVER SAID EASEMENTS INCLUDING SURFACE, UNDERGROUND AND OVERHEAD LINES, TOWERS, PIPES, CABLES, POLES, AND PRIVILEGE TO TRIM AND REMOVE TREES, SHRUBS OR BUSHES WHICH INTERFERE WITH THE PURPOSE SET FORTH HEREIN. NO BUILDING, SIGN, POOL, ABOVE GROUND OR SUBSURFACE HOT TUB, CONCRETE OR WOOD POOL DECKING OR OTHER STRUCTURE OR SHED OR BUILDING SHALL BE DRIVEN ON SAID EASEMENT OR SHALL BE USED FOR ANY PURPOSE OTHER THAN OPERATED THEREON. PROPERTY OWNERS SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ANY VIOLATIONS OF NATIONAL ELECTRICAL SAFETY CODE BY CONSTRUCTION OF POOLS, DECKING OR ANY STRUCTURES ADJACENT TO WITHIN OR NEAR EASEMENTS SHOWN ON THE PLAT.
- TALOS LOG NUMBER: 2006490671
- CITY OF ALBUQUERQUE WATER AND SEWER SERVICES ARE AVAILABLE TO THIS SITE.
- ZONE CLASSIFICATION: COUNTY SO-PDA & A-1
- IN APPROVING THIS PLAT, PNM ELECTRIC SERVICES AND GAS SERVICES (PNM) DID NOT CONDUCT A TITLE SEARCH OF THE LANDS SHOWN HEREON. ANY EASEMENTS OR ENCUMBRANCES TO WHICH IT MAY BE ENTITLED.
- TRACT A, B AND C WILL BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION IN FELLOWSHIP.
- TRACT A, B AND C ARE CONSIDERED "OPEN SPACE" PARCELS AND ARE FOR THE BENEFIT OF THE RESIDENCE OF LA SALIDA DEL SOL ESTATES.

PLAT OF  
LA SALIDA DEL SOL ESTATES

FORMERLY TRACT 10 & 10A-1  
WITHIN PROTECTED SEC. 27, T11N, R3E, N.M.P.M.  
BERNALILLO COUNTY, NEW MEXICO  
NOVEMBER 2006



30 0 30 60 120  
1" = 60'



CURVE DATA TABLE			
RADIUS	DISTANCE	DELTA	DELTA
C1	20.00	18.41	52.95.08" E
C2	32.84	32.84	17.32.17" E
C3	48.00	32.84	41.47.31" E
C4	48.00	23.78	28.22.46" W
C5	48.00	42.84	51.08.24" E
C6	48.00	24.27	28.57.54" W
C7	20.00	18.41	52.95.08" E
C8	20.00	31.42	90.00.00" W
C9	20.00	31.42	90.00.00" W
C10	20.00	31.42	90.00.00" W
C11	20.00	31.42	90.00.00" W
C12	20.00	31.42	90.00.00" W
C13	20.00	31.42	90.00.00" W
C14	20.00	31.42	90.00.00" W
C15	20.00	31.42	90.00.00" W
C16	20.00	31.42	90.00.00" W
C17	20.00	31.42	90.00.00" W

LINE DATA TABLE			
LINE	BEARING	LENGTH	DELTA
L1	N 09.26.19" E	16.09	
L2	N 09.26.19" E	108.34	
L3	N 09.26.19" E	108.34	
L4	S 80.19.41" E	525.50	
L5	S 09.26.19" W	108.48	
L6	S 80.19.41" E	108.48	
L7	N 09.26.19" E	108.34	

Legend

- PROPERTY BOUNDARY
- EASEMENT
- SET 5/8" REBAR WITH CAP
- STAMPED "LS 8911"
- CONTROL MONUMENT
- CENTERLINE MONUMENTATION

Notes

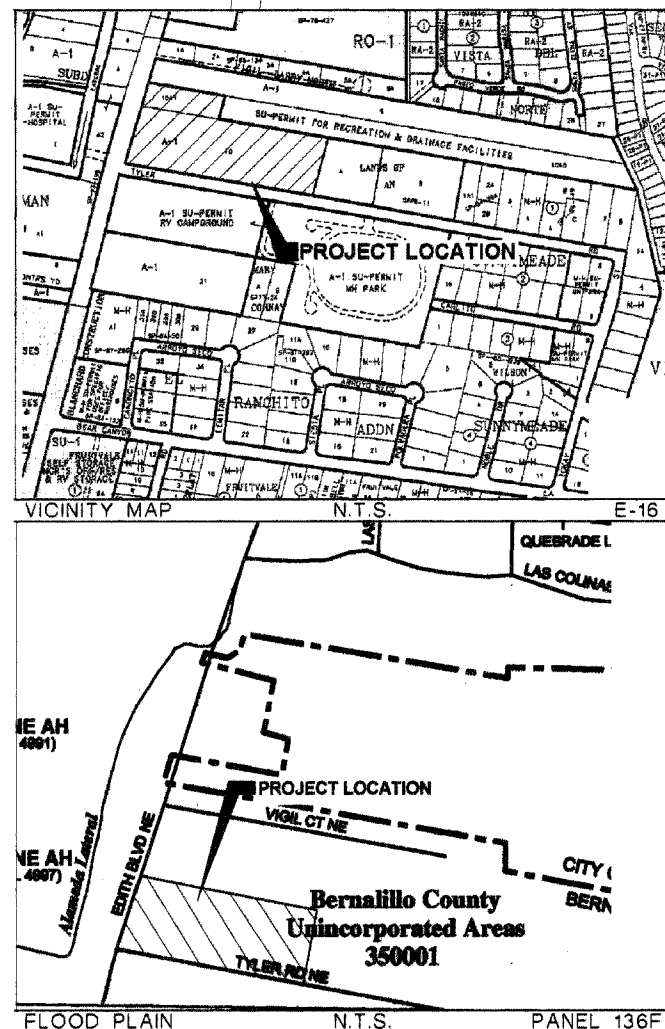
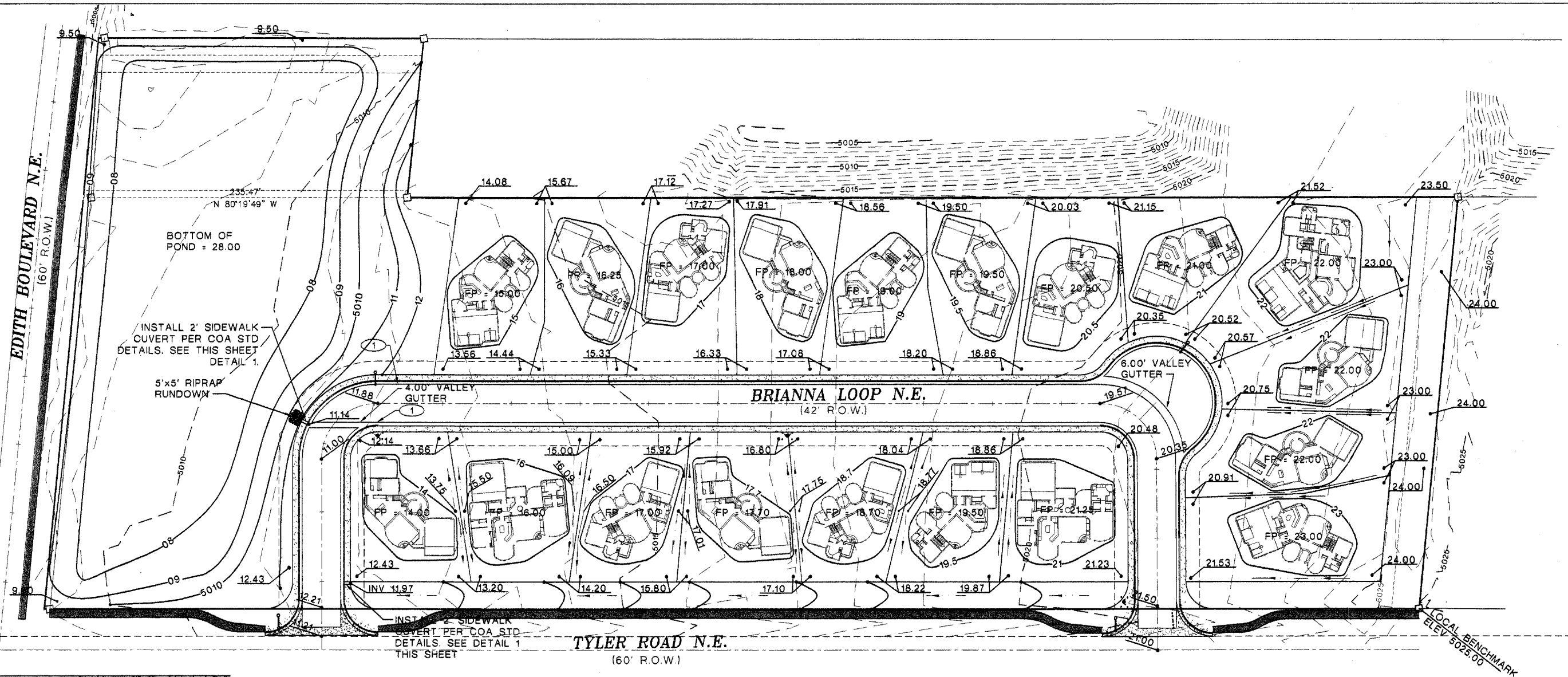
- 30.00' PRIVATE ACCESS AND UTILITY EASEMENT PER DOC FILED 12/14/1993 DOC NO. 93141204.
- 20.00' PUBLIC SANITARY SEWER LINE EASEMENT PER DOC FILED 11/07/1958, BK. 120, PG. 474
- 25.00' PUBLIC ACCESS EASEMENT PER DOC. FILED 11/02/1973, BK. D952, PG. 685
- 12.50' SOUTHERN UNION GAS CO. EASEMENT PER DOC FILED 03/24/1960, BK. D534, PG. 143
- 5.00' PNM EASEMENT PER DOC FILED 11/20/1959 BK. D513, PG. 400.

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SHEET 2 OF 2

SHEET 3 OF 12





### Drainage Calculations

Hydrology Calculations  
Date: January 10, 2007  
DPM - Section 22.2  
Volume 2, January 1993

Precipitation Zone 2  
100 Year Storm Depth, P (360) 2.35  
100 year Storm Depth, P (10 day) 3.95

Treatment Area	A	B	C	D
Excess Precipitation Factors	0.53	0.78	1.13	2.12
Peak Discharge Factors	1.56	2.28	3.14	4.70

Land Treatment Area	Acres	Existing	Allowable	Proposed
Type "D" (Pavement & Roofs)	0.00	1.27	2.83	
Type "C" (Unpaved Roadway)	0.00	1.50	0.00	
Type "B" (Irrigated Lawns)	0.00	1.50	4.66	
Type "A" (Undeveloped)	7.48	3.22	0.00	
Total (Acres)	7.48	7.48	7.48	
Excess Precipitation (in)	0.53	0.99	1.29	
Volume (100, cf)	14390.77	28755.97	34934.88	
Volume (10, cf)	9841.82	17926.50	23406.37	
Volume (100, 10 day, cf)	14390.77	28755.97	51348.18	
Q (100, cfs)	11.67	19.06	23.90	
Q (10, cfs)	7.82	12.77	16.01	

### POND CALCULATIONS

AREA OF 28 CONTOUR 63,578 SF  
AREA OF 29 CONTOUR 48,762 SF

$63,578 + 48,762 = 112,340 / 2 = 56,170 \times 1.0 = 56,170 \text{ CuFt}$

PONDING REQUIRED: 51,348.18 CuFt

PONDING PROVIDED: 56,170 CuFt

WATER SURFACE ELEVATION: 5008.91

### Drainage Narrative

THE SITE FOR SALIDA DEL SOL ESTATES IS A 7.48 ACRE SITE THAT IS LOCATED AT THE NORTHEAST CORNER OF EDITH BOULEVARD AND TYLER ROAD. THE SITE CURRENTLY IS VACANT AND SLOPES FROM NORTHEAST TO SOUTHWEST. THE SITE IS PROPOSED TO CONTAIN 19 RESIDENTIAL LOTS AND A LARGE OPEN SPACE PARCEL. THE PROJECT IS BEING DESIGNED SUCH THAT IT CONTAINS A MOUNTABLE CURB AND GUTTER, AND SIDEWALKS. THE PROPERTIES WILL DRAIN FROM THE REAR OF THE PROPERTY TO THE STREET, AND THE RUNOFF CONVEYED BY THE STREET TO THE OPEN SPACE WHICH WILL ALSO BE THE STORM DRAINAGE RETENTION POND FOR THE DEVELOPMENT. THERE IS AN EXISTING STORM DRAINAGE POND TO THE NORTH OF THIS PROPERTY THAT WILL ALLOW FOR AN OVERFLOW IF A NEED FOR AN OVERFLOW EXISTED. THE PONDING REQUIRED FROM THE DEVELOPMENT IS 51,348 CU FT. THE PONDING PROVIDED WITH THE POND SHOWN IS 56,170 CU FT. THE PROPERTY IS NOT WITHIN A 100 YEAR FLOODPLAIN.

### Legal Description

TRACTS 10 & 10A1, M.R.G.C.D., MAP 29, BERNALILLO COUNTY, NEW MEXICO, AS IS FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY NEW MEXICO.

### UPC

1016-062-062-424-206-13

### Keyed Notes

- TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB.

## MASTER GRADING PLAN

SCALE: 1" = 40'

### Legend

— 5030 —	EXISTING CONTOUR
— 5030 —	NEW CONTOUR
• 30.11	NEW SPOT ELEVATION
TW	TOP OF WALL
BW	BOTTOM OF WALL
FP	FINISH PAD ELEVATION
— — — — —	DIRECTION OF FLOW
— — — — —	NEW WALL

### Benchmark

PROJECT BENCHMARK  
ACS MONUMENT "NAA-8"  
X = 393902.61  
Y = 1513713.15  
ELEV = 5076.00 NAVD 1929.

LOCAL BENCHMARK  
SOUTHEAST CORNER OF PROPERTY BEING A SET REBAR.

ELEV = 5025.00

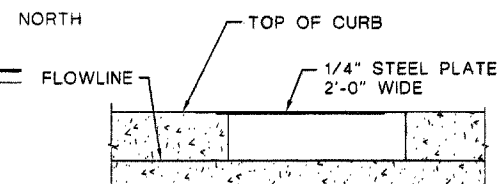
### Engineer's Statement

I, THE ENGINEER OF RECORD CERTIFY THAT I HAVE PERSONALLY VISITED THE SITE AND THE EXISTING GRADES AND CONTOURS DEPICTED ON THIS PLAN MATCH WHAT PRESENTLY EXISTS AT THIS LOCATION

MARTIN J. GARCIA, NMPE #11767



20 0 20 40 80  
1" = 40'

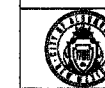


## CULVERT SECTION

SCALE: 3/4" = 1'-0"

**ABQ**  
Engineering,  
Inc.

Engineers • Planners  
Construction Services  
6739 Academy Rd NE, Suite 130  
Albuquerque, NM 87109  
505-255-7802 FAX 505-255-7902  
ABQ NO. 26124



**CITY OF ALBUQUERQUE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: LA SALIDA DEL SOL ESTATES  
MASTER GRADING PLAN

Design Review Committee City Engineer Approval

William J. Garcia  
7/24/2007

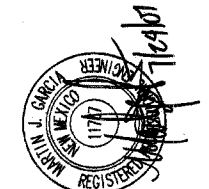
7/24/2007

City Project No. 745682  
County Project No. 70006

Zone Map No. E-16

SHEET 4 OF 12

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION MARK IS A STANDARD A.C.S. BRASS TABLET STAMPED (AMATEUR RIGHT-OF-WAY MARKER) "NAA-8" SET IN CONCRETE ALONG THE NORTH DIVERSION CHANNEL	DATE	NO.	BY	REMARKS	REVISIONS
DESIGNED BY	DATE	FIELD BY	DATE				
CHECKED BY	DATE	VERIFIED BY	DATE				
MICRO-FILM INFORMATION	DATE						
RECORDED BY	DATE						
NO.							

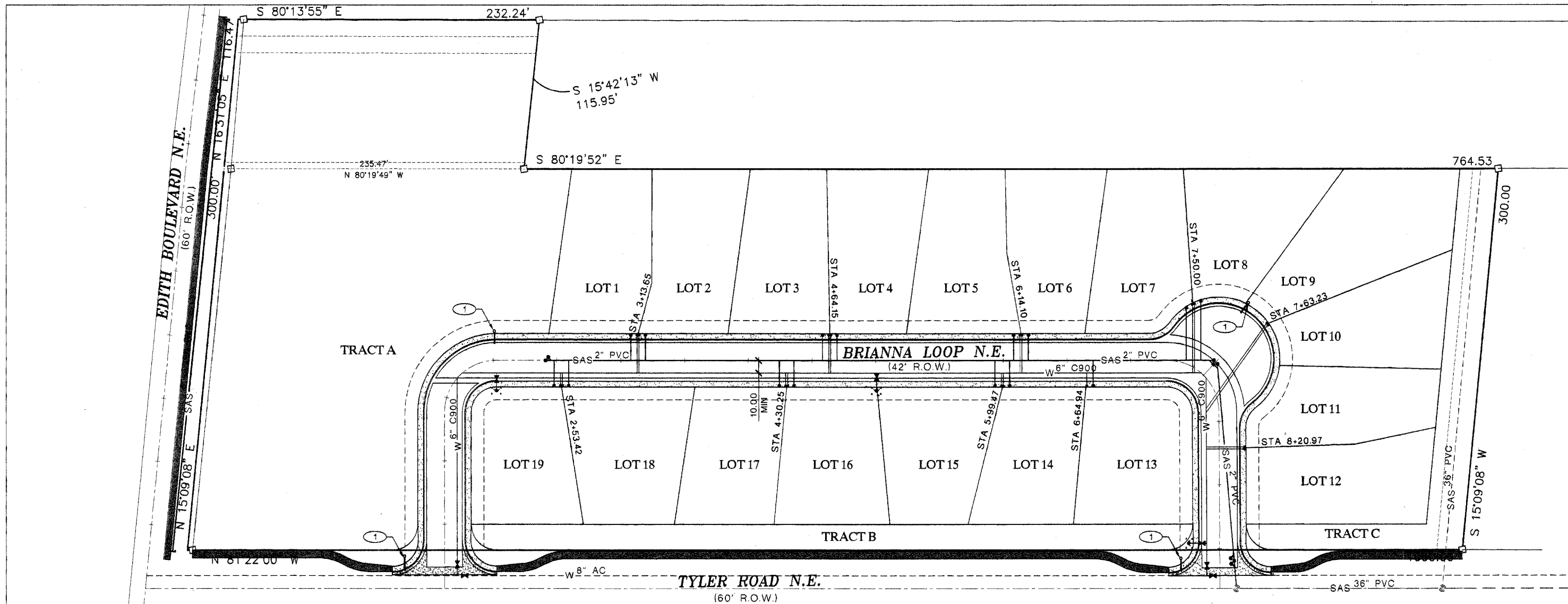


NO.	DATE	REMARKS	REVISIONS	DESIGN
	7/19/2007	DATE 7/19/2007		
	7/19/2007	DATE 7/19/2007		
	7/19/2007	DATE 7/19/2007		









### General Notes

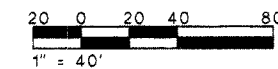
- CONTRACTOR TO COORDINATE WITH CITY OF ALBUQUERQUE AND CORRESPONDING AGENCIES FOR VERIFICATION OF EXISTING UTILITIES PRIOR TO TRENCHING.
- DUAL CHECK VALVES SHALL BE INSTALLED ON ALL WATER SERVICES FOR BACK FLOW PREVENTION.
- HOMEOWNERS ASSOCIATION IS RESPONSIBLE FOR MAINTENANCE OF ASPHALT TRAIL ALONG TYLER ROAD N.E.
- TRAFFIC RATED WATER METER BOX LIDS PER COA STD DWG 2369 AS REQUIRED ON ALL WATER SERVICES.

### Keyed Notes

- 100W STREET LIGHT.
- NEW FIRE HYDRANT WITH BOLLARD PROTECTION. SEE SHEET 9 FOR BOLLARD DETAIL.

## MASTER UTILITY PLAN

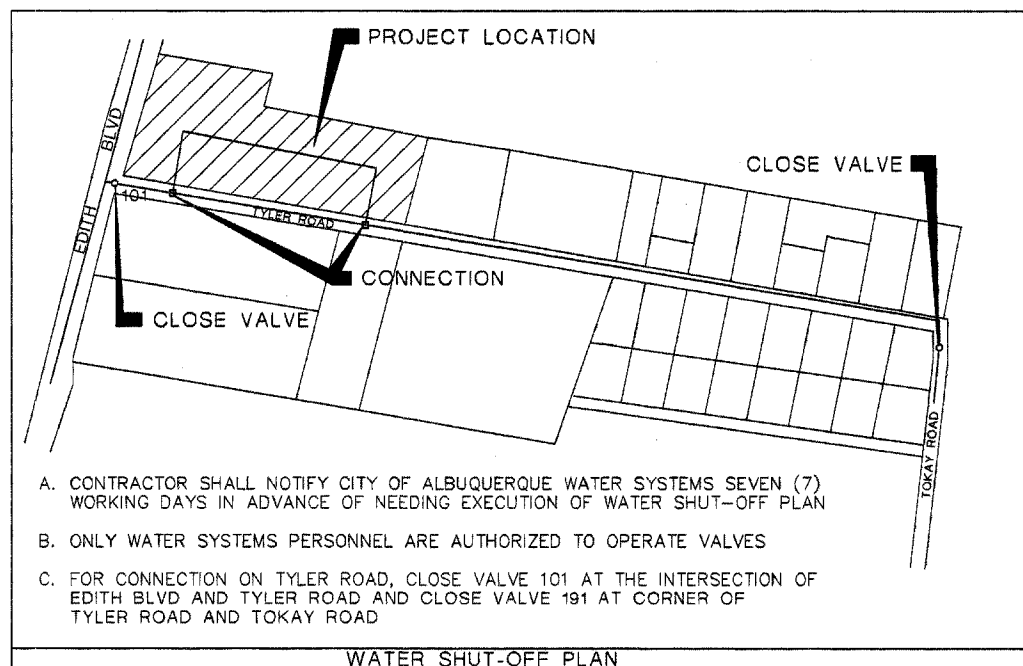
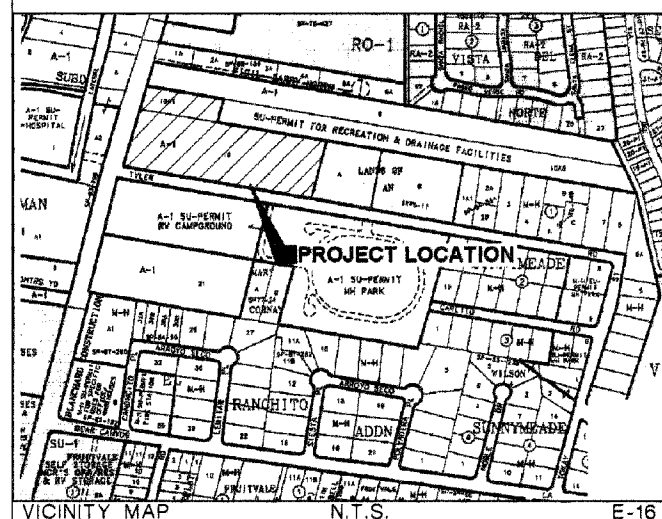
SCALE: 1" = 40'



FIRE MARSHALL APPROVAL

### Legend

- W--- EXISTING WATER LINE
- SAS--- EXISTING SANITARY SEWER LINE
- W— NEW WATER LINE
- SAS— NEW SEWER LINE
- ✕ NEW WATER VALVE
- NEW WATER METER SERVICE
- ▲ NEW FIRE HYDRANT



- CONTRACTOR SHALL NOTIFY CITY OF ALBUQUERQUE WATER SYSTEMS SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF WATER SHUT-OFF PLAN
- ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES
- FOR CONNECTION ON TYLER ROAD, CLOSE VALVE 101 AT THE INTERSECTION OF EDITH BLVD AND TYLER ROAD AND CLOSE VALVE 191 AT CORNER OF TYLER ROAD AND TOKAY ROAD

SANITARY SEWER SERVICE				
LOT	STATION	LENGTH	OFFSET	NOTES
1	3+08.65	21.00'	0.00'	
2	3+18.65	21.00'	0.00'	
3	4+59.15	21.00'	0.00'	
4	4+59.15	21.00'	0.00'	
5	6+09.10	21.00'	0.00'	
6	6+19.10	21.00'	0.00'	
7	7+45.00	41.68'	3.00' LT	
8	7+55.00	46.88'	9.75' LT	
9	7+58.23	58.97'	8.14' LT	
10	7+68.23	71.05'	0.00'	
11	8+15.97	21.00'	0.00'	
12	8+25.97	21.00'	0.00'	
13	6+69.94	21.00'	0.00'	
14	6+04.47	21.00'	0.00'	
15	5+94.47	21.00'	0.00'	
16	4+35.25	21.00'	0.00'	
17	4+25.25	21.00'	0.00'	
18	2+58.42	21.00'	0.00'	
19	2+48.42	21.00'	0.00'	

LENGTH OF RESTRAINED PIPE (FEET)					
PIPE SIZE	90	45	22.5	11.25	TEE VALVE
6"	18'	7'	4'	2'	18' 46'
8"	22'	8'	4'	2'	22' 59'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY. MINIMUM ATTACHED PIPE LENGTH, RUN EACH SIDE OF TEE: 10.00 FEET

### Reference Drawings


ITEM	STD DWG
WATER SVC	2361, 2363, 2467, 2469
GATE VALVE	2326, 2328
FIRE HYDRANT	2340

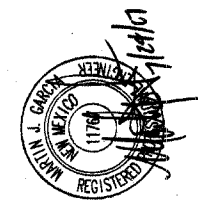
**ABQ**  
Engineering, Inc.  
Engineers • Planners  
Construction Services  
6739 Academy Rd NE, Suite 130  
Albuquerque, NM 87109  
505-255-7802 FAX 505-255-7802  
ABQ NO. 28184

**CITY OF ALBUQUERQUE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: LA SALIDA DEL SOL ESTATES  
MASTER UTILITY PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
William G. Palk	[Signature]	7/24/2007	
City Project No.	745682	Zone Map No.	
County Project No.	70006	E-16	
SHEET		6	12

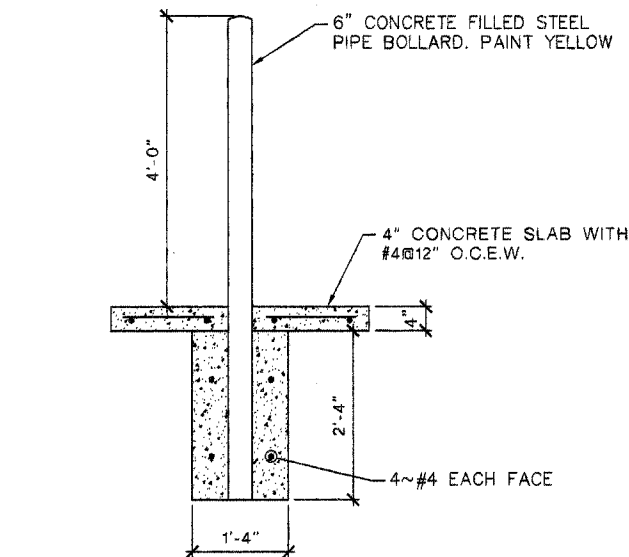
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
<div> 7/16/17</div>		FIELD NOTES		STATION MARK IS A STANDARD A.C.S. BRASS TABLET STAMPED (AMATECA RIGHT-OF-WAY MARKER) "M4A-B" SET IN CONCRETE ALONG THE NORTH DIVERSION CHANNEL  X = 30902.61    Y = 15171.15    Z = 5076.0  (TRICHO-METRIC ELEV)	CONTRACTOR	WORK	DATE
		NO.	BY			STARTED BY	DATE
						INSPECTOR'S	DATE
						FIELD	DATE
						VERIFICATION BY	DATE
						CORRECTED BY	DATE
						MICRO-FILM INFORMATION	
				NO.			







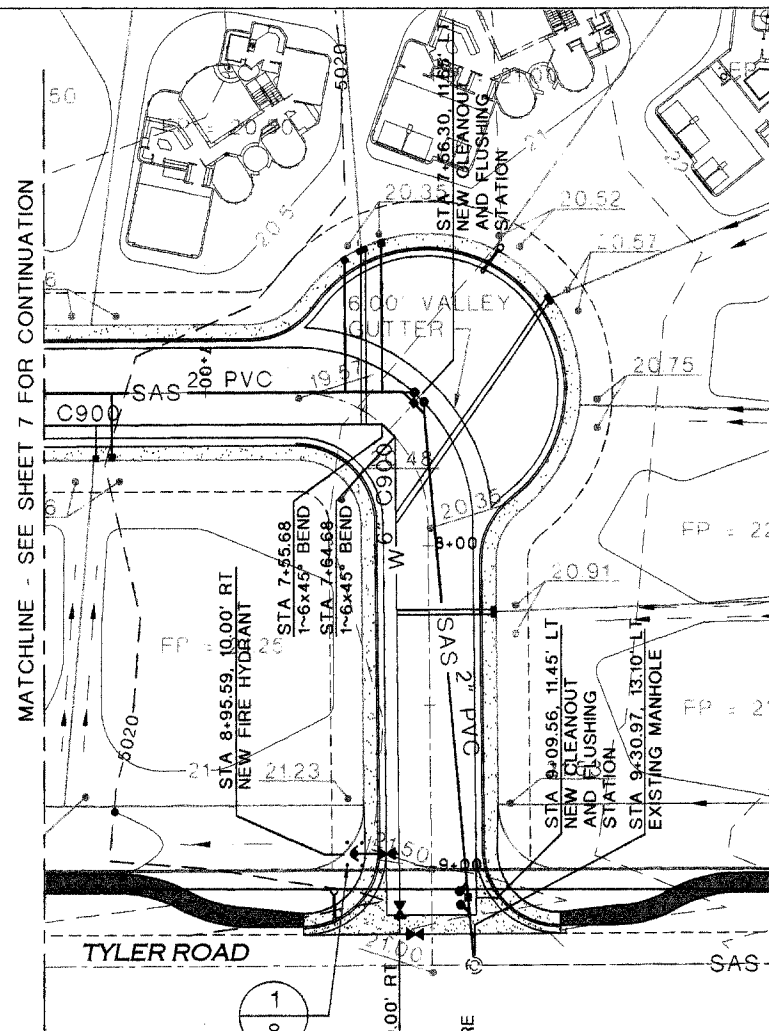




BOLLARD DETAIL

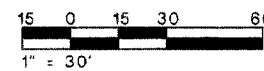
SCALE: 3/4" = 1'-0"

1  
8



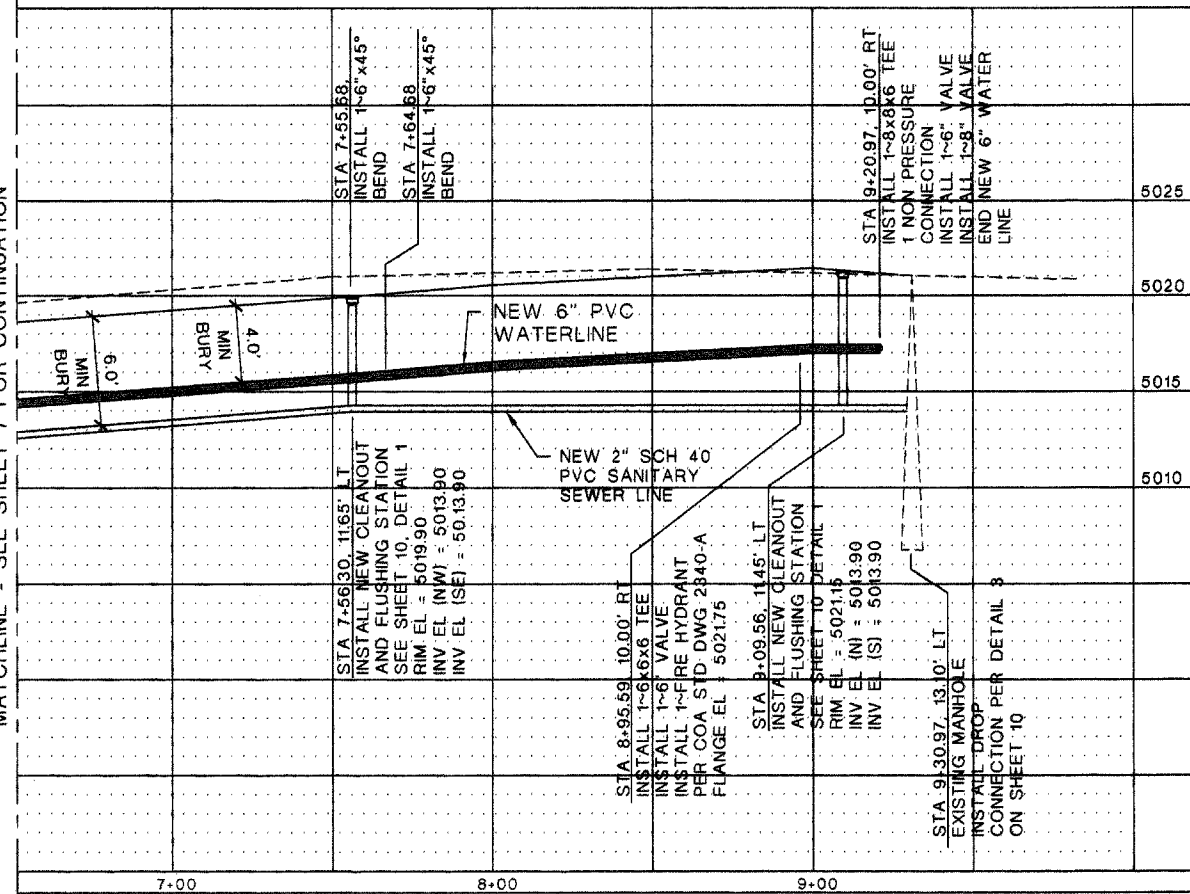
UTILITY PLAN

SCALE: 1" = 30'



SCALE: 1" = 30' HORIZ  
1" = 5' VERT

MATCHLINE - SEE SHEET 7 FOR CONTINUATION



## General Notes

- CONTRACTOR TO COORDINATE WITH CITY OF ALBUQUERQUE AND CORRESPONDING AGENCIES FOR VERIFICATION OF EXISTING UTILITIES PRIOR TO TRENCHING.
- STATIONING OF PROFILE IS BASED ALONG CENTERLINE OF BRIANNA LOOP.

## Legend

- W--- EXISTING WATER LINE
- SAS--- EXISTING SANITARY SEWER LINE
- W— NEW WATER LINE
- SAS— NEW SEWER LINE
- ⊙ NEW SEWER MANHOLE
- ✕ NEW WATER VALVE
- ▼ NEW REDUCER
- └ NEW WATER METER SERVICE
- ▶ NEW FIRE HYDRANT

**ABQ**  
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Inc.

Engineers · Planners  
Construction Services  
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Albuquerque, NM 87109  
505-255-7802 FAX 505-255-7902  
ABQ NO. 26124



**CITY OF ALBUQUERQUE**  
**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING DEVELOPMENT GROUP**

LA SALIDA DEL SOL ESTATES  
BRIANNA LOOP N.E.  
UTILITY PLAN AND PROFILE STA 6+50.00 TO 9+30.97

Design Review Committee City Engineer Approval

William J. Probst  
7/24/2007

Signature

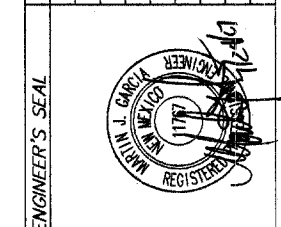
Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 745682 Zone Map No. E-16 SHEET 8 OF 12  
County Project No. 70006

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
ACCEPTED BY	DATE
FIELD CHECKED BY	DATE
REVISIONS BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
STATION MARK IS A STANDARD A.C.S. BRASS TABLET STAMPED	DATE
(AMARCA RIGHT-OF-WAY MARKER) "M4-B" SET IN CONCRETE	
ALONG THE NORTH DIVISION CHANNEL	
X = 383922.61 Y = 1513713.15 Z = 5076.0	
(TRIGONOMETRIC ELEV)	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	

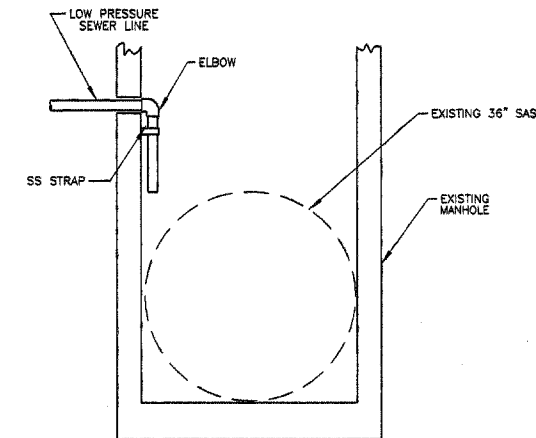
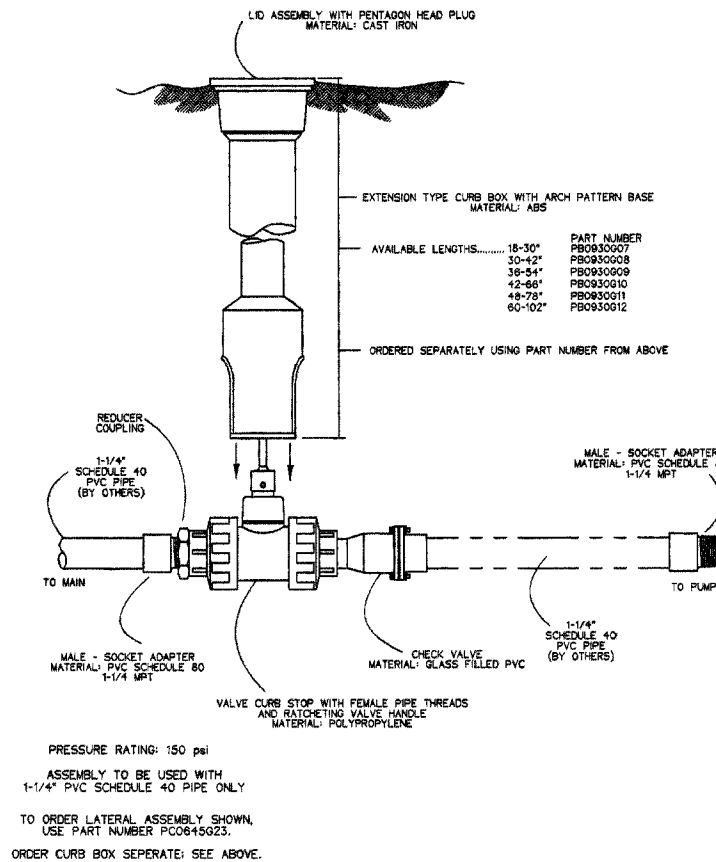
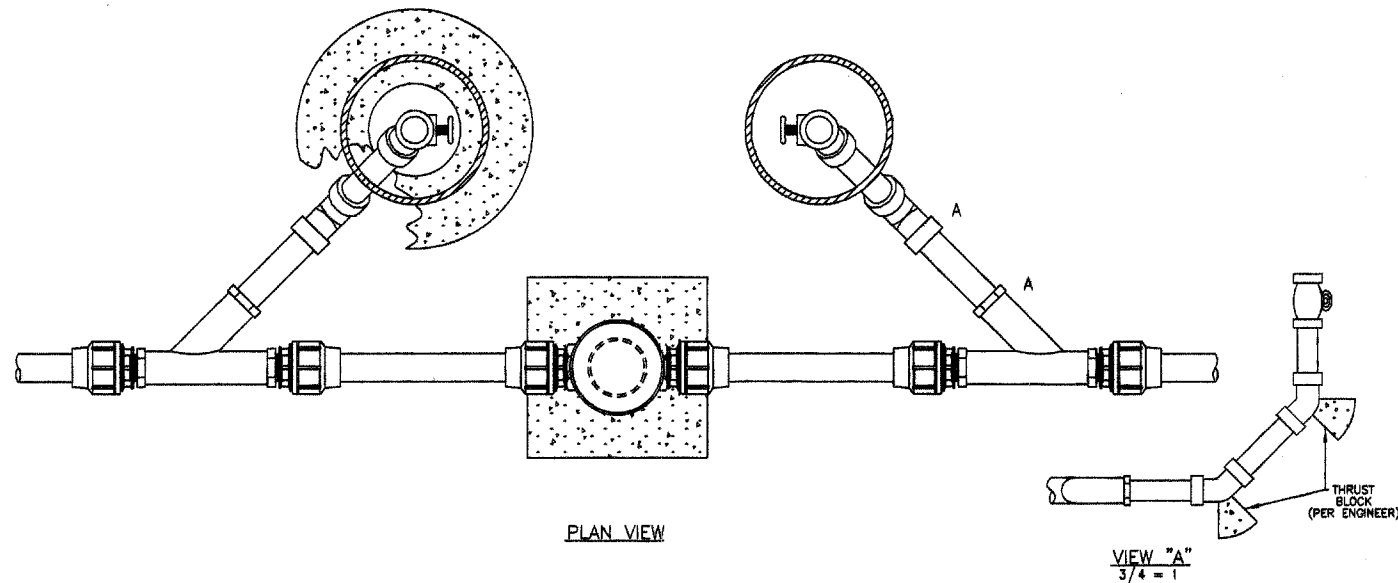


ENGINEER'S SEAL	
REMARKS	BY
DESIGN	
REVISIONS	
DESIGNED BY M. GARCIA	DATE 7/19/2007
DRAWN BY F. PHILLIPS	DATE 7/19/2007
CHECKED BY M. GARCIA	DATE 7/19/2007

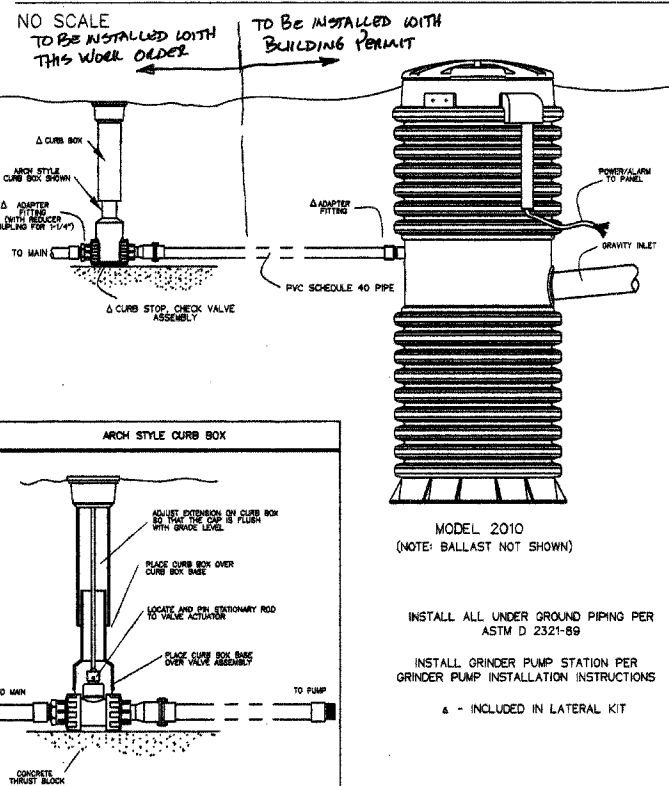








## TYPICAL FLUSHING CONNECTION



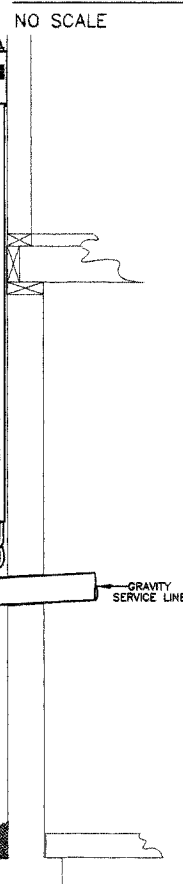
## TYPICAL SERVICE INSTALLATION

NO SCALE

## GRINDER PUMP INSTALLATION DETAIL

NO SCALE

## SEWER SERVICE VALVE DETAIL



## DROP MANHOLE DETAIL

NO SCALE

<b>ABQ</b> Engineering, Inc. Engineers • Planners Construction Services 6739 Academy Rd NE, Suite 130 Albuquerque, NM 87109 505-255-7802 FAX 505-255-7802 ABQ NO. 28194		DESIGNED BY M GARCIA DATE 7/19/2007 DRAWN BY F PHILLIPS DATE 7/19/2007 CHECKED BY M GARCIA DATE 7/19/2007	
<b>CITY OF ALBUQUERQUE</b> PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP TITLE: LA SALIDA DEL SOL ESTATES SANITARY SEWER DETAILS			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
William G. Pulech 7/24/2007	APV		
City Project No. 745682	Zone Map No. E-16	SHEET 10	OF 12

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	STATION MARK IS A STANDARD A.C.S. BRASS TABLET STAMPED	DATE	BY	NO.	DATE	BY	NO.
WORK STARTED BY	TAMARCA RIGHT-OF-WAY MARKED "1/4"-8" SET IN CONCRETE	DATE	BY	NO.	DATE	BY	NO.
WORK STOPPED BY	ALONG THE NORTH DIRECTION CHANNEL	DATE	BY	NO.	DATE	BY	NO.
FIELD ACCEPTANCE BY	X = 39.992.61 Y = 151.171.15 Z = 5078.0	DATE	BY	NO.	DATE	BY	NO.
REVISIONS BY	(TRIGONOMETRIC ELEV)	DATE	BY	NO.	DATE	BY	NO.
REVISIONS BY		DATE	BY	NO.	DATE	BY	NO.
REVISIONS BY		DATE	BY	NO.	DATE	BY	NO.
REVISIONS BY		DATE	BY	NO.	DATE	BY	NO.



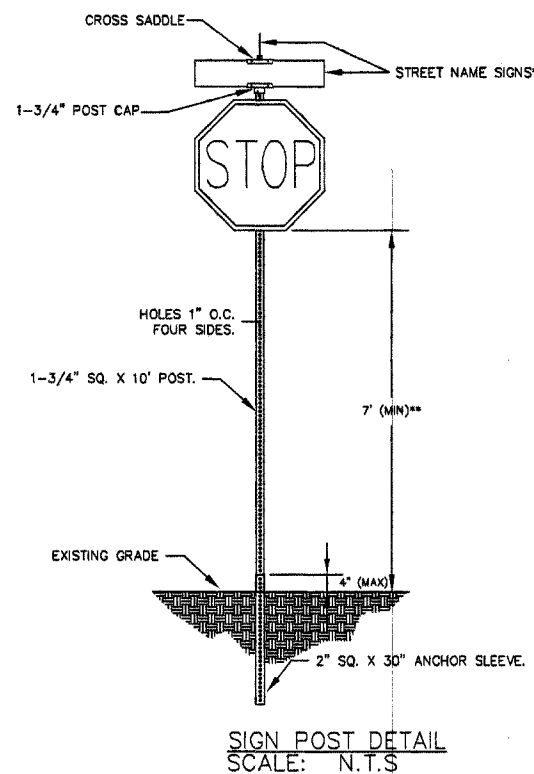




# CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 AND COUNTY ORDINANCE NO. 96-3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848-1504 FOR MORE INFORMATION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL ADMINISTRATOR AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
- A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT MANAGER OR THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR.
- CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: PROJECT MANAGER
- THE CONTRACTOR SHALL FILE A WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL ADMINISTRATOR DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.
- SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.
- TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
- 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 BERNALILLO COUNTY TRAFFIC ENGINEERING.
- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY WITH 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 THE COUNTY TRAFFIC CONTROL ADMINISTRATOR, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP FOR EACH PHASE 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 BERNALILLO COUNTY TRAFFIC ENGINEERING PER MUTCD SECTION 6A-4.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF BERNALILLO COUNTY TRAFFIC ENGINEERING.
- 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 BERNALILLO COUNTY TRAFFIC ENGINEERING. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE LETTERING ON BLUE BACKGROUND. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- 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 BERNALILLO COUNTY TRAFFIC ENGINEERING.
- 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.
- THE CONTRACTOR SHALL CONTACT BERNALILLO COUNTY TRAFFIC ENGINEER (848-1575) BEFORE REMOVING AND/OR INSTALLING ANY TRAFFIC SIGNS OR PERMANENT STRIPING AND MARKINGS. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, LEGENDS AND SYMBOLS ARE TO BE CONSTRUCTED OF INTERSECTION GRADE COLD PLASTIC AND LINE MARKINGS ARE TO BE CONSTRUCTED OF DURABLE PAINT IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION. ANY PAVEMENT MARKINGS AND SIGNS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT EXISTING LOCATIONS. SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.



\*ALL STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND WITH HI. INTENSITY REFLECTIVE SHEETING. ALL LETTERS SHALL BE 4" FOR POSTED SPEEDS OF 25 MPH AND BELOW AND 6" FOR POSTED SPEEDS GREATER THAN 25 MPH.  
\*\*SEE MUTCD FOR MINIMUM MOUNTING HEIGHT IN RURAL AREAS

# OF POSTS	MAXIMUM SIGN SQUARE FOOTAGE
1	6
2	12
3	18

## TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG 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

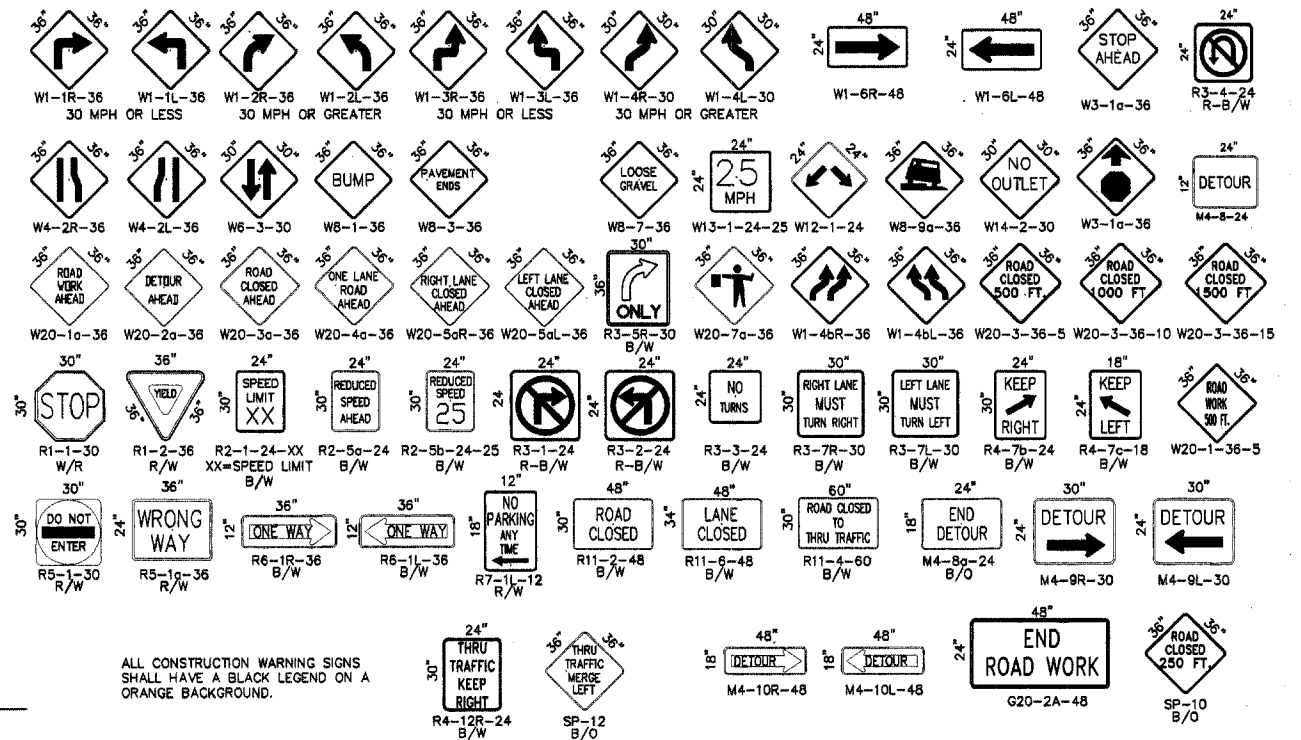
SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

## LEGEND

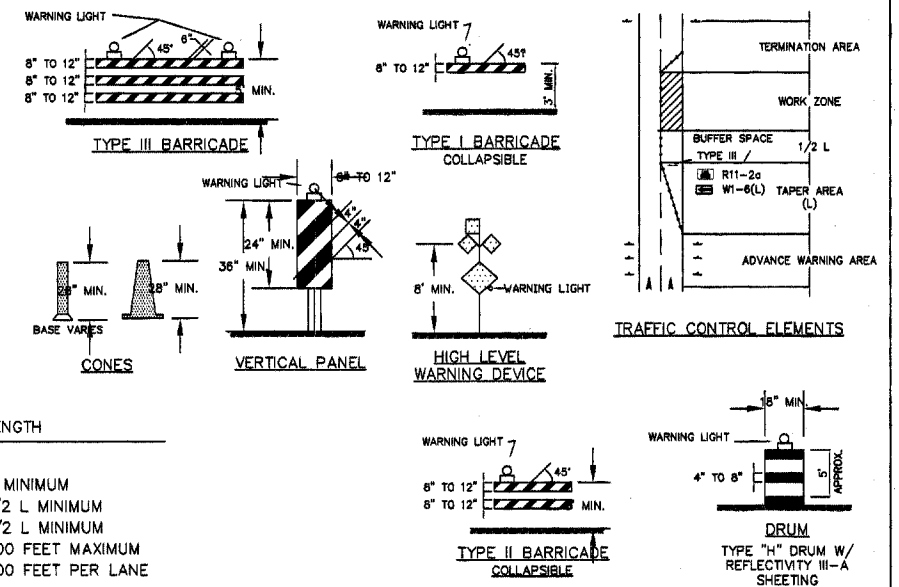
- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR TYPE "H" DRUM W/ REFLECTIVITY III-A SHEETING
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPEED LIMIT - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

## SIGN FACE DETAILS



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



## TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

## TAPER LENGTH COMPUTATION

SPEED LIMIT	L = WS <sup>2</sup> / 60
40 MPH OR LESS	L = W x S
40 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

NO.	DESCRIPTION	DATE	BY
REVISIONS			
COUNTY OF BERNALILLO			
TYLER ROAD N.E.			
SIGNING & CONSTRUCTION			
TRAFFIC CONTROL STANDARDS			
PROJECT NO.	DRAWN: BC	DATE: 05-14-04	
	CHECKED: BC	SCALE:	