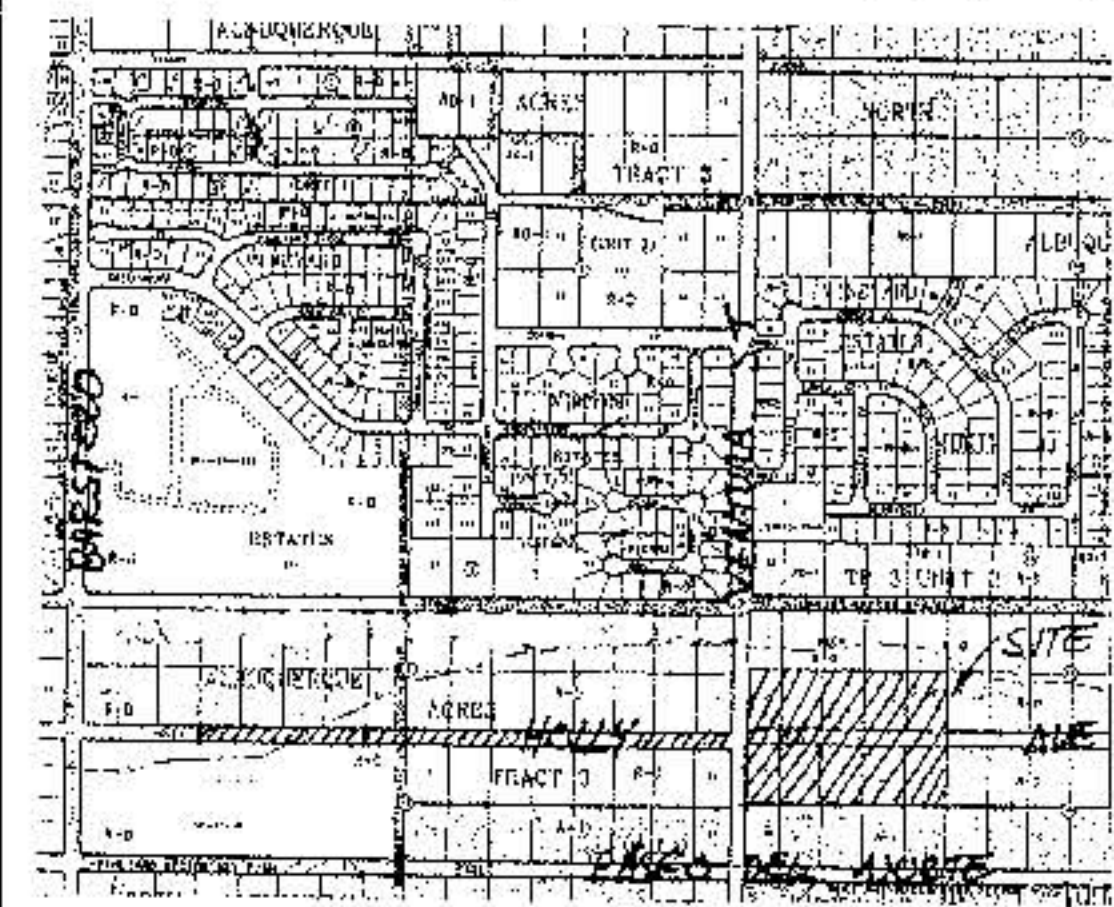


CONSTRUCTION PLANS
FOR
FURR'S - HOLLY - VENTURA
IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO



VICINITY MAP ZONE ATLAS C-20
SCALE: NONE

GENERAL NOTES

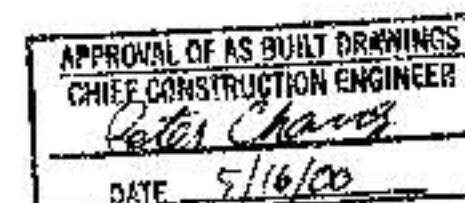
NOTICE TO CONTRACTORS

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1080) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. 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.
4. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADING ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR IN EXISTING OR NEW LOCATION AS INDICATED BY THIS SET.
7. 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.
8. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.

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.
- ☒ 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.

INDEX TO DRAWINGS	
SHEET NO.	SHEET
1	TITLE SHEET
2	PLAT
3-3A	GRADING AND DRAINAGE PLAN
4	PAVING IMPROVEMENTS
5-9	UTILITY IMPROVEMENTS
10-11	TRAFFIC CONTROL



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving and by the surveyor, Aldrich and Associates, and reflects the construction as actually accomplished. The drawing is in substantial compliance with the Approved Plan.

Signature: J. Krenik
NMPE 11829

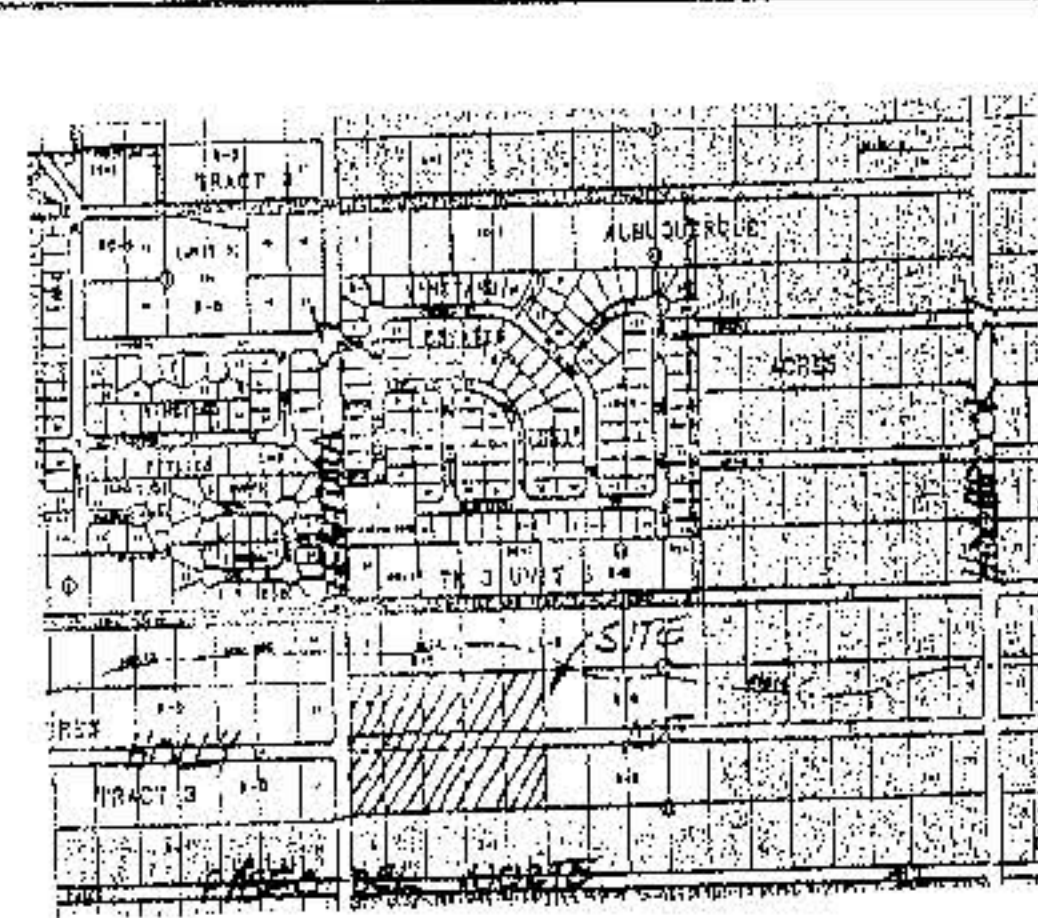


DRB-98-324

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.

dmg
D. MARK GOODMAN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		ORC CHAIRMAN	K. B. B.	10-29-99	APPROVED FOR CONSTRUCTION		
		TRANSPORTATION	R. W. Kane	10-29-99			
		WATER/WASTEWATER	R. W. Kane	8-18-99			
		HYDROLOGY	Anna Calogian	8-2-99			
		CIP					
		CONSTR. MGMT.			CITY ENGINEER DATE		
		CONSTR. COORD.	J. Krenik	8-11-99			
CITY PROJECT NO.				SHEET OF			
601982				1 11			



VICINITY MAP

TOP OF TELEPHONE MANHOLE LOCATED AT THE INTERSECTION OF PASEO DEL NORTE AND VENTURA STREET N.E. RIM ELEV. = 5542.41

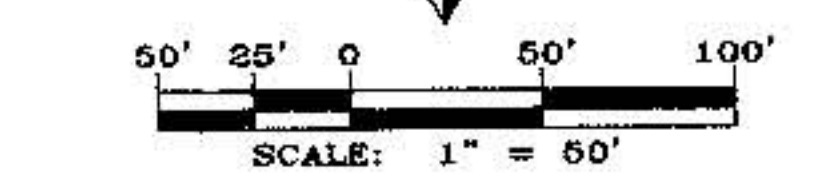
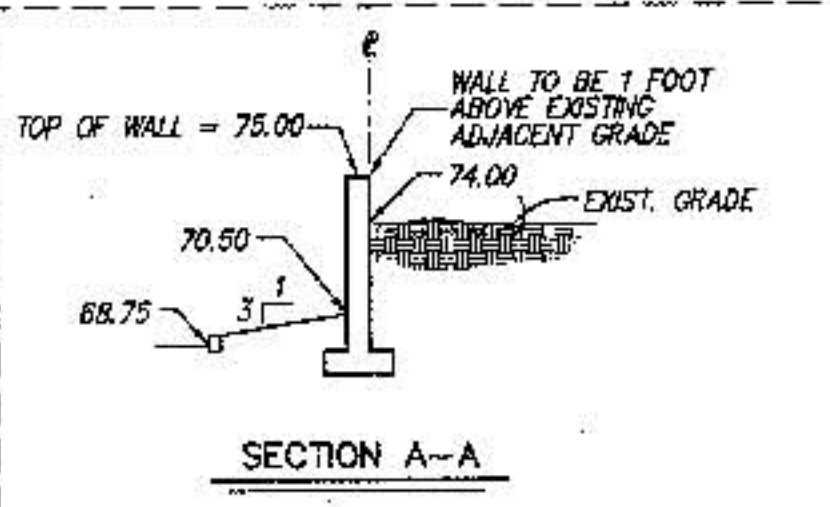
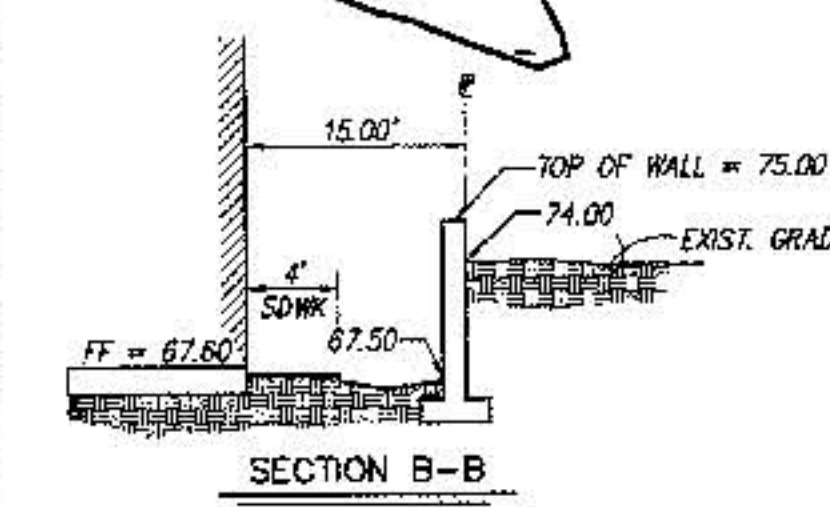
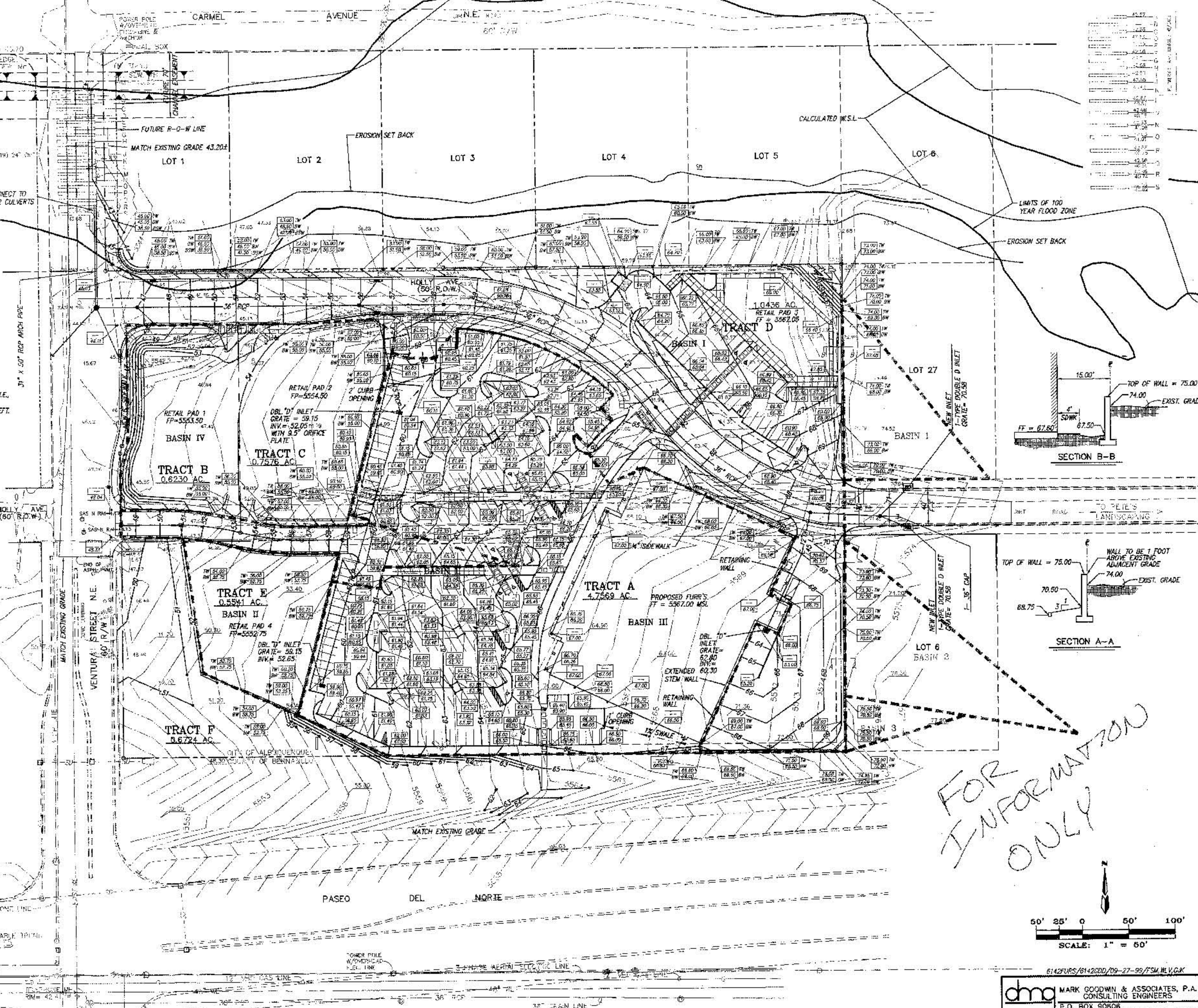
TO REACH THE STATION FROM THE INTERCHANGE AT I-25 AND SAN MATEO BLVD. N.E., GO NORTH ON THE EAST FRONTAGE ROAD FOR 1.5 MILES TO PASEO DEL NORTE. TURN RIGHT, GO EAST ON PASEO DEL NORTE 2.8 MILES TO THE STATION ON THE LEFT.

X=415,503.35 Y=1,518,787.29 Z=5634.65

LEGAL DESCRIPTION
LOTS 28 THRU 32 OF BLOCK 19 AND LOTS 3, 4, AND 5 OF BLOCK 20 OF NORTH ALBUQUERQUE ACERS TRACT 3, UNIT 3.

- LEGEND
- EXISTING SPOT ELEVATION
 - PROPERTY LINE
 - EXISTING CONTOUR
 - NEW CONTOUR
 - PROPOSED SPOT ELEVATION
 - ROOF DRAIN (TYP)
 - WATER BLOCK / HIGHPOINT
 - NEW RETAINING WALL
 - NEW SCOUR WALL
 - BASIN BOUNDARY
 - TALL CURB

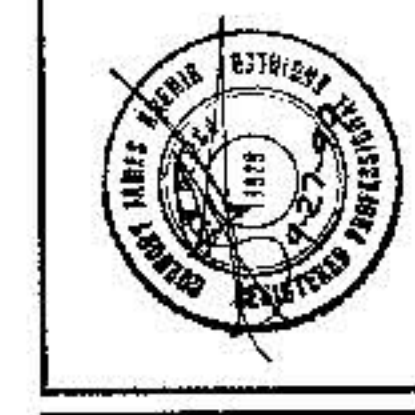
- NOTES
- SITE IS ALLOWED FLOW DISCHARGE TO VENTURA WHERE FLOWS WILL CONTINUE NORTH TO THE ARROYO.
 - OFFSITE FLOWS WILL BE ROUTED ALONG THE RETAINING WALL ON THE PROPERTY LINE TO THE R.O.W. OR ARROYO.
 - CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
 - CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
 - 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.
 - THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND NETTING THE SOIL TO KEEP IT FROM BLOWING.



6142FURS/6142CDD/09-27-95/FSM.W.V.G.K.
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90806
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

REV	DATE	BY	REVISION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

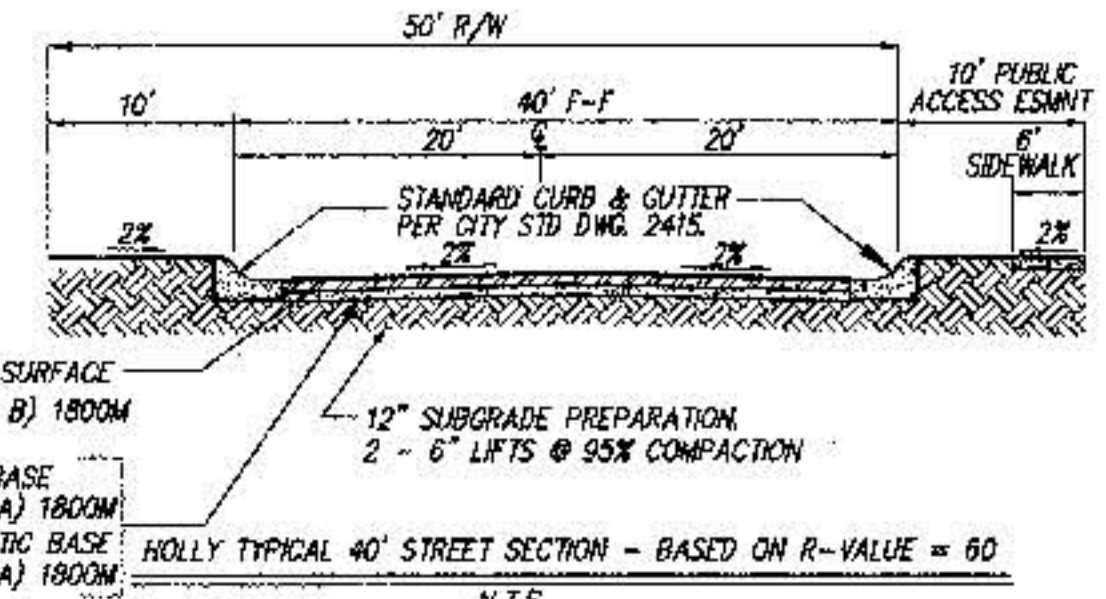
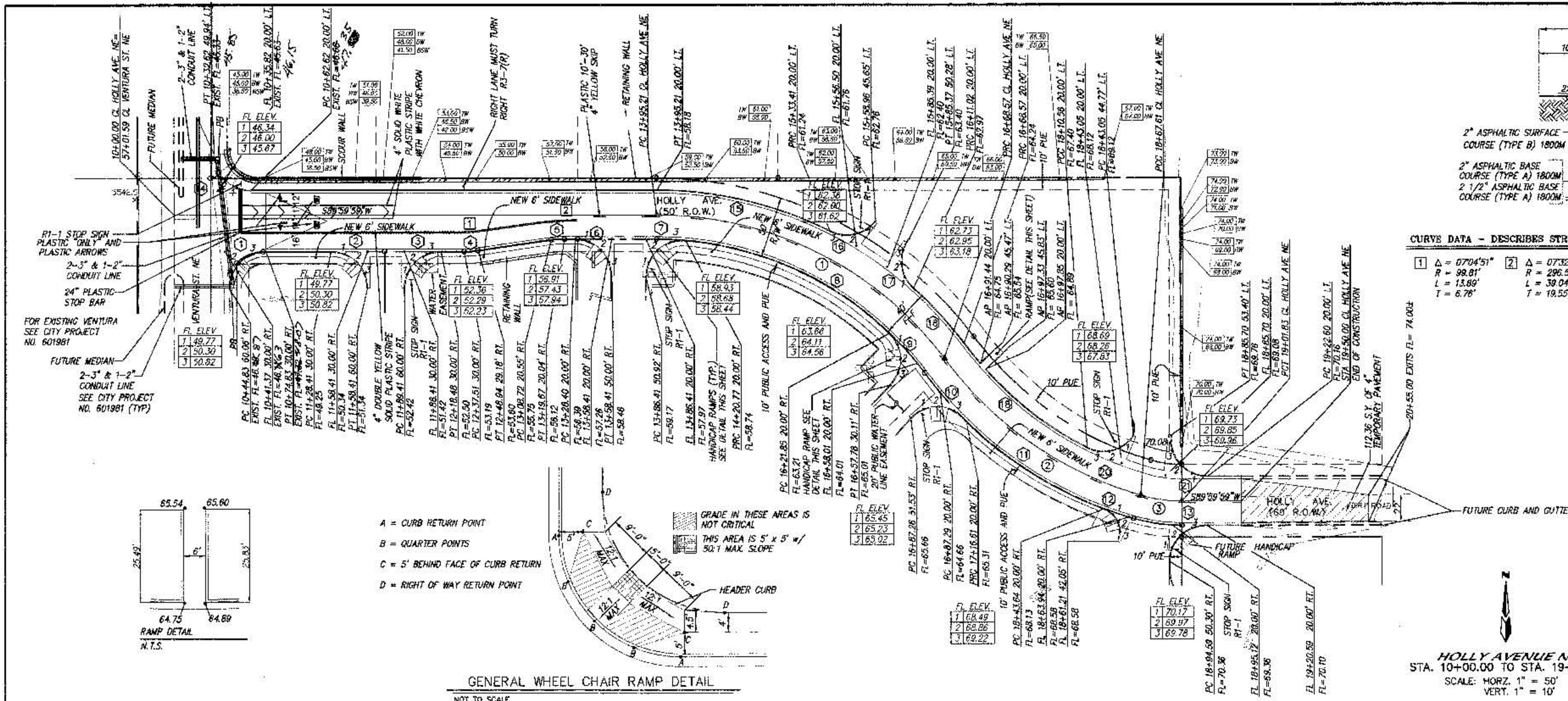
GEORGE RAINHART, ARCHITECT & ASSOCIATES P.C.
2325 SAN PEDRO N.E., SUITE 2-B
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 884-9110 FAX (505) 837-9877



PROJECT TITLE
FURR'S SUPERMARKET INC.
PASEO DEL NORTE AND VENTURA STREET N.E.
ALBUQUERQUE, N.M.
JOB NO. 0942
DRAWN BY: WJ
PROJECT MANAGER: GJR
SHEET TITLE
GRADING & DRAINAGE PLAN
AUTOMATICALLY GENERATED AND PASSED DET MORPHE

START DATE
09/14/98
SCALE:
1"=50'

C2B



CURVE DATA - DESCRIBES STRIPING

1	2
$\Delta = 0704'51"$ $R = 98.81'$ $L = 13.89'$ $T = 6.78'$	$\Delta = 0732'39"$ $R = 296.52'$ $L = 39.04'$ $T = 19.55'$

CURVE DATA - DESCRIBES CENTERLINE

1	2	3
$\Delta = 5305'38"$ $R = 295.00'$ $L = 273.37'$ $T = 30.06'$	$\Delta = 36'47'12"$ $R = 310.00'$ $L = 199.03'$ $T = 103.08'$	$\Delta = 16'16'38"$ $R = 120.00'$ $L = 34.08'$ $T = 17.16'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

1	2	3
$\Delta = 90'08'28"$ $R = 30.00'$ $L = 47.18'$ $T = 30.06'$	$\Delta = 90'00'01"$ $R = 30.00'$ $L = 47.12'$ $T = 30.00'$	$\Delta = 90'07'05"$ $R = 30.00'$ $L = 47.18'$ $T = 30.06'$

$\Delta = 08'12'59"$ $R = 30.00'$ $L = 11.47'$ $T = 5.75'$	$\Delta = 06'77'20"$ $R = 100.00'$ $L = 10.98'$ $T = 5.49'$	$\Delta = 90'01'26"$ $R = 30.00'$ $L = 47.14'$ $T = 30.01'$
---	--	--

$\Delta = 94'57'55"$ $R = 30.00'$ $L = 49.72'$ $T = 32.72'$	$\Delta = 39'03'13"$ $R = 275.00'$ $L = 187.44'$ $T = 92.53'$	$\Delta = 89'53'19"$ $R = 30.00'$ $L = 47.14'$ $T = 29.94'$
--	--	--

$\Delta = 98'22'22"$ $R = 30.00'$ $L = 51.51'$ $T = 34.74'$	$\Delta = 23'21'00"$ $R = 330.00'$ $L = 134.49'$ $T = 68.18'$	$\Delta = 94'15'42"$ $R = 20.00'$ $L = 32.90'$ $T = 21.55'$
--	--	--

$\Delta = 90'00'00"$ $R = 30.00'$ $L = 47.12'$ $T = 30.00'$	$\Delta = 88'53'32"$ $R = 30.00'$ $L = 47.07'$ $T = 29.94'$	$\Delta = 26'50'28"$ $R = 315.00'$ $L = 147.57'$ $T = 75.16'$
--	--	--

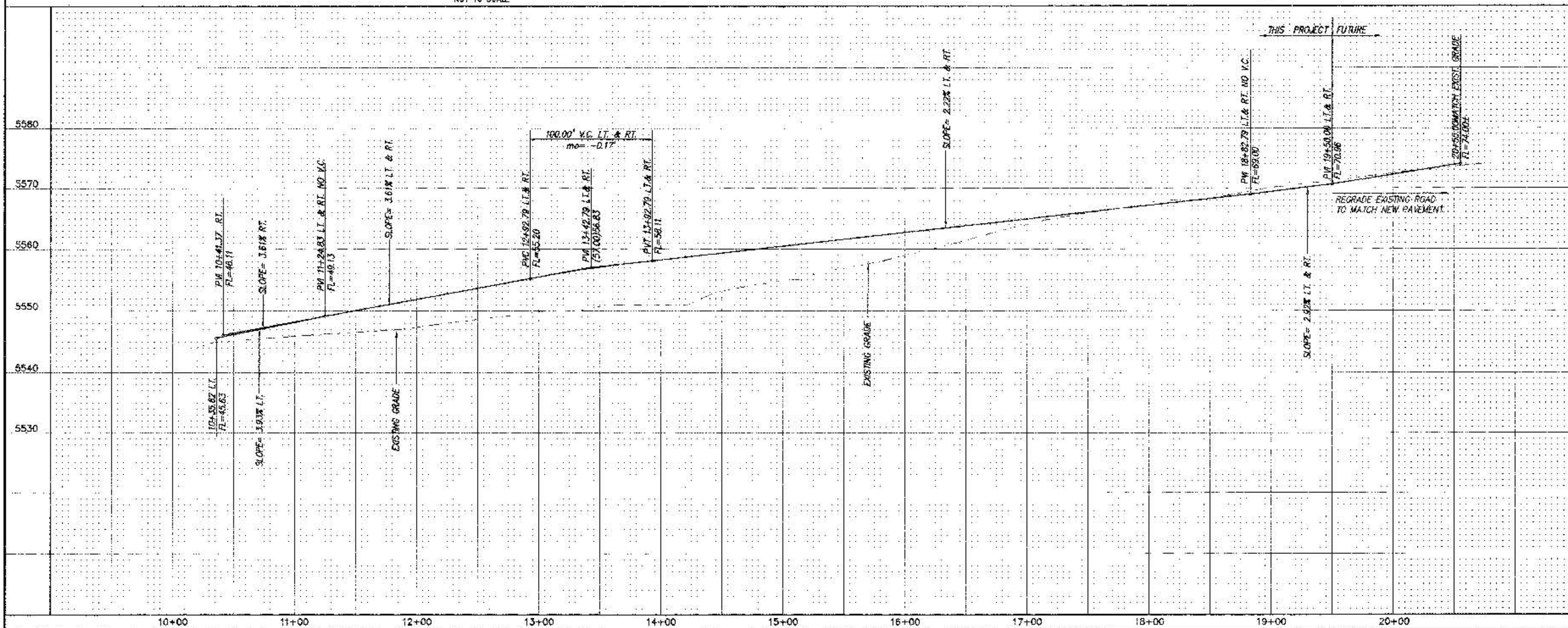
$\Delta = 79'11'50"$ $R = 30.00'$ $L = 41.47'$ $T = 24.82'$	$\Delta = 88'03'05"$ $R = 30.00'$ $L = 46.10'$ $T = 29.09'$	$\Delta = 11'70'42"$ $R = 315.00'$ $L = 61.45'$ $T = 30.83'$
--	--	---

$\Delta = 26'14'34"$ $R = 290.00'$ $L = 132.83'$ $T = 67.68'$	$\Delta = 71'36'14"$ $R = 30.00'$ $L = 37.49'$ $T = 21.64'$	$\Delta = 97'40'18"$ $R = 30.00'$ $L = 51.14'$ $T = 34.31'$
--	--	--

HOLLY AVENUE N.E.
STA. 10+00.00 TO STA. 19+51.03
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

- A = CURB RETURN POINT
B = QUARTER POINTS
C = 5' BEHIND FACE OF CURB RETURN
D = RIGHT OF WAY RETURN POINT

GENERAL WHEEL CHAIR RAMP DETAIL
NOT TO SCALE



NOTES

1. ALL STATKWHING IS CENTERLINE STATKWHING.
2. ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2430.
3. ALL 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420.
4. ALL HANDICAP RAMPS TO BE PER DETAIL THIS SHEET.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET.
6. V.G. TO HAVE A 3/4" INVERT CENTERED ON V.G.

RECORD DRAWING
I hereby certify that the information contained on this drawing has been revised in accordance with the latest information furnished by the contractor, Franklin's Earthmoving, and reflects the construction as shown on this plan as constructed in substantial compliance with the approved plans.

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90608
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9359

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

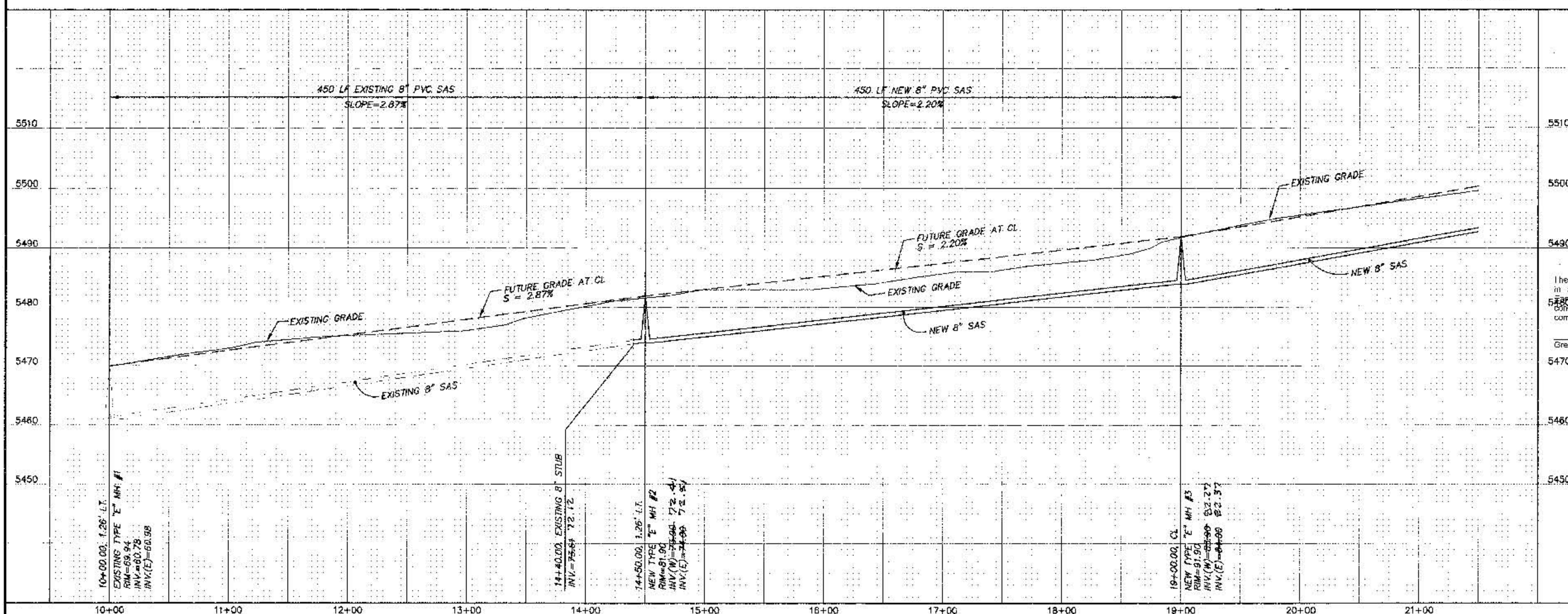
TITLE
FURR'S-PASEO del NORTE-VENTURA
PAVING IMPROVEMENTS

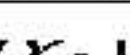
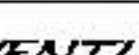
DESIGN (NEW CONSTRUCTION)
APPROVED
DATE 2/1/99

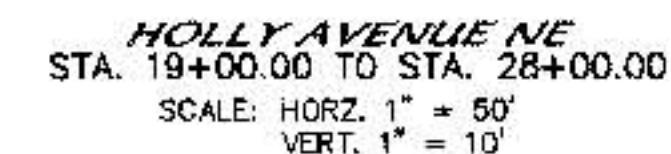
CITY PROJECT NO. 601982
ZONE MAP NO. C-20-Z
SHEET 4 OF 11

AS BUILT INFORMATION
CONTRACTOR: FRANKLIN'S
DATE: 02/01/99
DESIGNED BY: GSK
DATE: 6/99
DRAWN BY: KMS
DATE: 6/99
CHECKED BY: DMG
DATE: 6/99

ENGINEER'S SEAL
I, FRANKLIN'S EARTHMOVING, INC., a duly licensed professional engineer, do hereby certify that the information contained on this drawing has been revised in accordance with the latest information furnished by the contractor, Franklin's Earthmoving, and reflects the construction as shown on this plan as constructed in substantial compliance with the approved plans.

[illegible]

 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: <i>FURR'S - HOLLY - VENTURA</i> <i>UTILITY IMPROVEMENTS</i>			
DESIGN REVIEW COMMITTEE 	APPROVED 	NO. / DATE 	NO. / DATE 
CITY PROJECT NO. 601982	ZONE MAP NO. C-20-Z	SHEET 5	OF 1



AS BUREAU INFORMATION	
CONTINUUM	FRANKLIN'S
WORKED BY	ALS
INTERVIEWED BY	DATE
ACCENTRANCE BY	DATE
FIELD	DATE
COLLECTION BY	ALS
UNRAVELLED BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BRANCH MARKS

"THE STATION MARK IS A STANDARD ACS GRASS TABLET STAMPED "C21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND SURFACE.

TO REACH THE STATION FROM THE INTERCHANGE AT I-25 AND SAN JUAN BLVD. N.E., GO NORTH ON THE EAST FRONTAGE ROAD TOWARD MILES TO PASO DEL NORTE. TURN RIGHT, GO EAST ON PASO DEL NORTE 2.8 MILES TO THE STATION ON THE LEFT.

[illegible]

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	SEALED BY	DATE	DATE
SEALED BY	SEALED BY	DATE	DATE

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklins 5500, and verified by the surveyor, Alvin J. Kreftik, and reflects the construction as actually accomplished. The work shown is in substantial compliance with the Approved Plan.

Alvin J. Kreftik
Surveyor
NMPE 11929

5500

SEAL: ALVIN J. KRETIK, SURVEYOR, NMPE 11929, 37829

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

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

TITLE

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL NO. DAY/MO.

OCT 27 1960
 REC'D
 CITY ENGINEER
 LAST DES

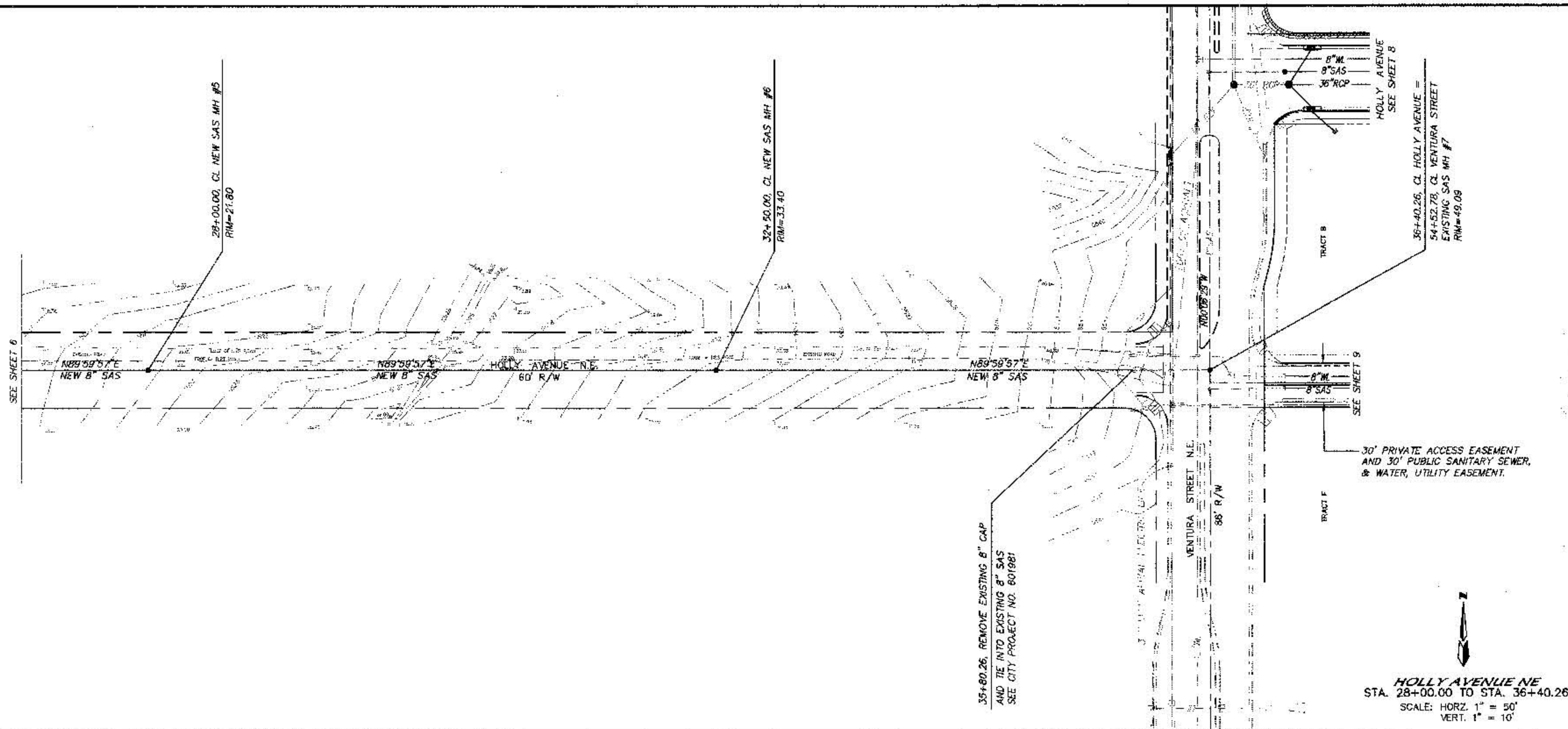
CITY PROJECT NO.	ZONE MAP NO.	SHEET
601982	C-20-Z	

6142FURS/614UP2/CB-05-99/WLV

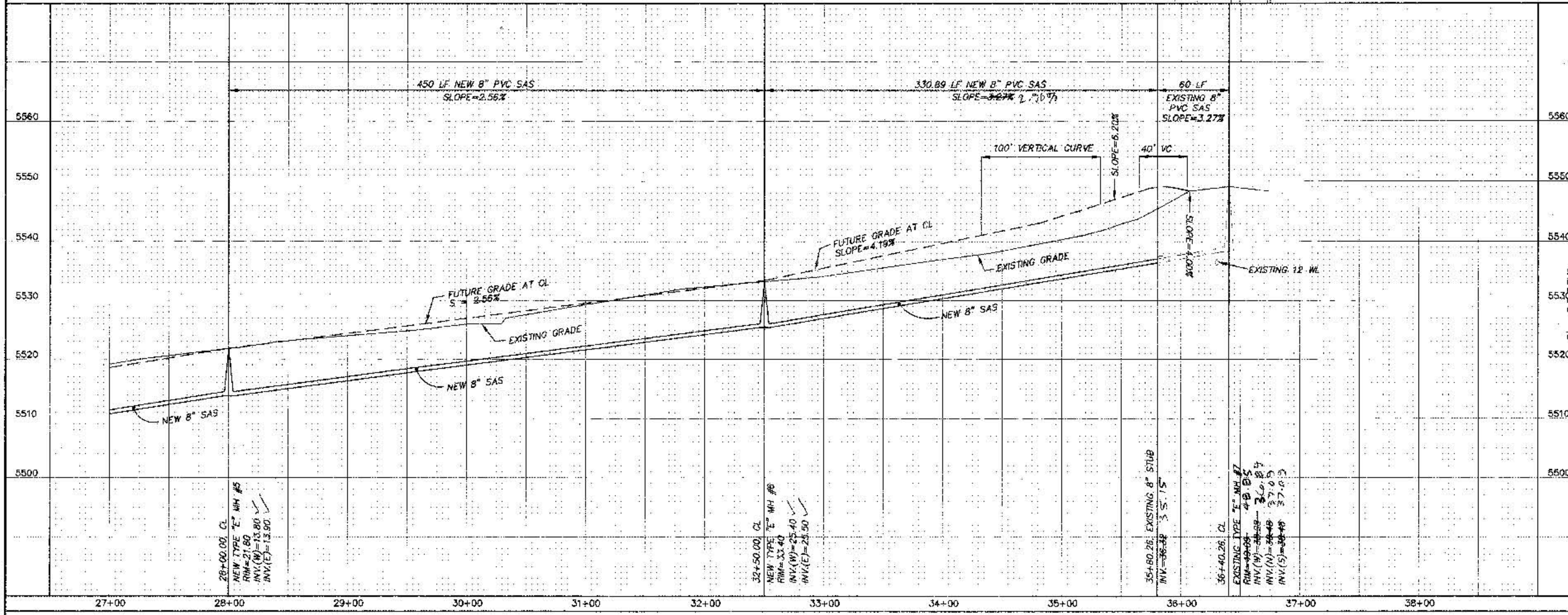
601982

ONE MAP NO
C-20-Z

6 1.



HOLLY AVENUE NE
STA. 28+00.00 TO STA. 36+40.26
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



- NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.
 2. FUTURE GRODES SHOWN ARE FOR SANITARY SEWER DESIGN AND INSTALLATION ONLY.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	FRANK LINS	THE STATION MARK IS A STANDARD AS BRASS TABLET STAMPED	1-021A-107B SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND	FIELD NO. 15	BY DATE		
DATE	DATE	NO.	BY DATE	NO.	BY DATE		
DATE	DATE	NO.	BY DATE	NO.	BY DATE	DESIGNED BY	DATE
DATE	DATE	NO.	BY DATE	NO.	BY DATE	DRAWN BY	DATE
DATE	DATE	NO.	BY DATE	NO.	BY DATE	CHECKED BY	DATE
DATE	DATE	NO.	BY DATE	NO.	BY DATE		

RECORD DRAWING

I hereby certify that the information contained on this drawing has been reviewed in accordance with information furnished by the contractor, Franklin's Engineering, and by the surveyor, Asdrubal J. Gomez, and reflects the construction as actually accomplished. This drawing is not to be used in substantial compliance with the approved Plan.

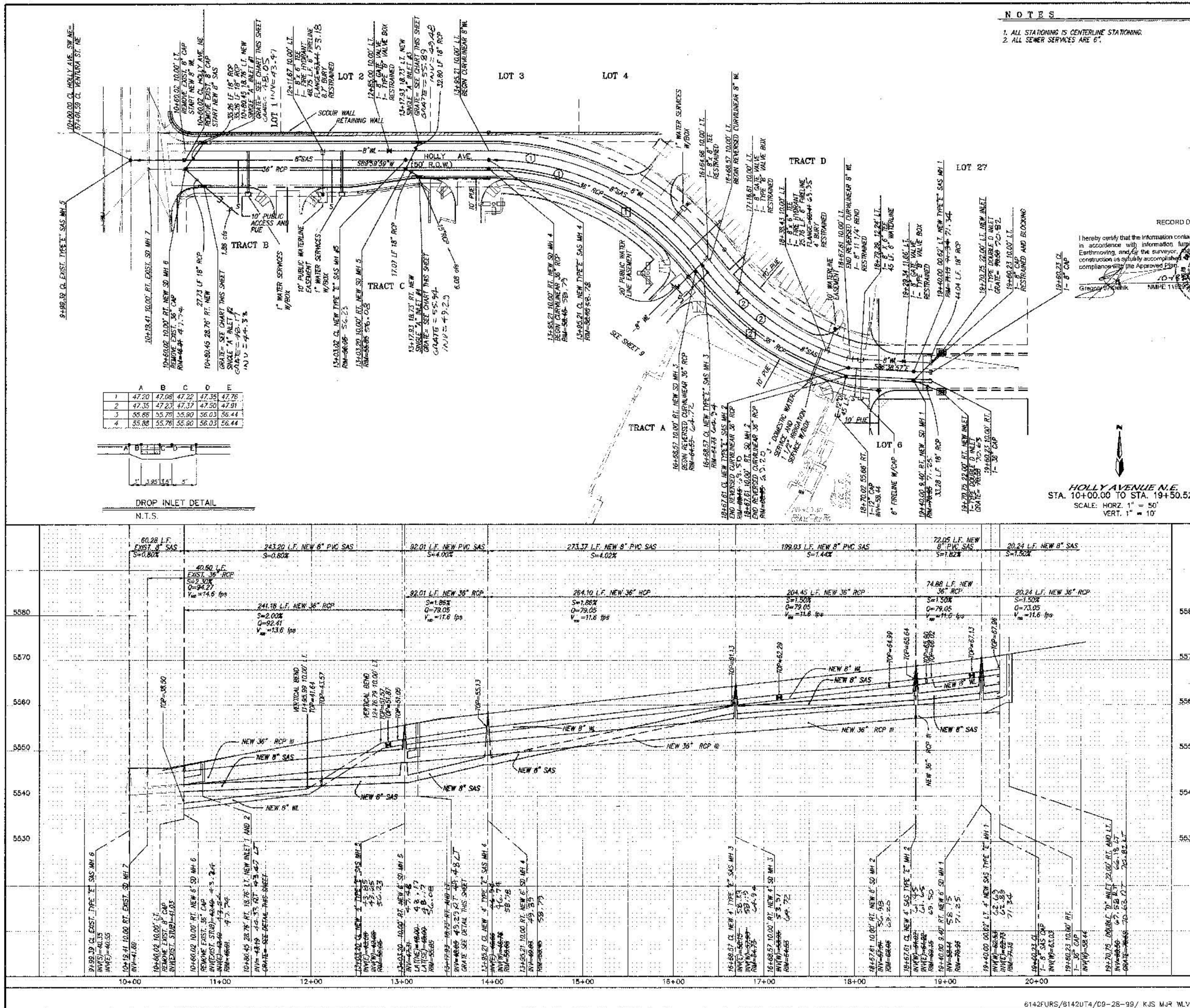
Gregory J. Monik
NIMPE 11929

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87198
(505) 828-2200, FAX (505) 797-8539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: FURR'S - HOLLY - VENTURA
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	ENGINEER APPROVAL	NO. 247/98	NO. 247/98
DATE 12/2/98	DATE 12/2/98		
DESIGNER	CITY ENGINEER		



NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.
2. ALL SEWER SERVICES ARE 6'.

CURVE DATA -
DESCRIBES CURVILINEAR SANITARY SEWER LINE

① $\Delta = 53.0538^\circ$
 $R = 295.00'$
 $L = 273.37'$
 $T = 30.06'$

CURVE DATA - 8" WATER LINE

① $\Delta = 53.0538^\circ$
 $R = 305.00'$
 $L = 282.63'$
 $T = 32.38'$

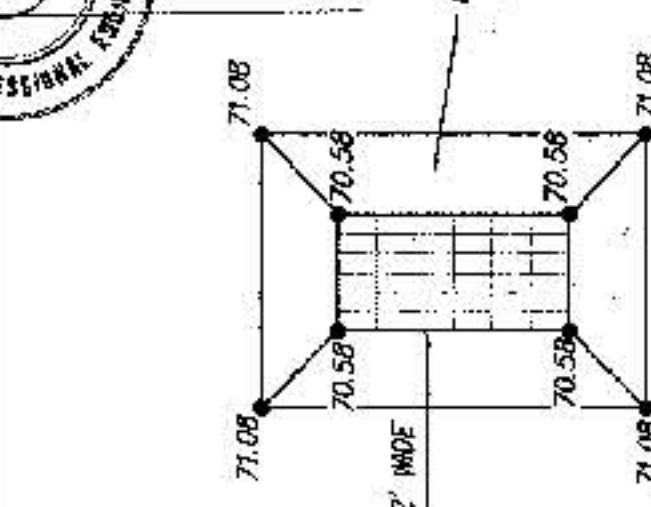
CURVE DATA - DESCRIBES 36" STORM DRAIN

① $\Delta = 53.0538^\circ$
 $R = 283.00'$
 $L = 253.10'$
 $T = 142.38'$

RECORD DRAWING

I hereby certify that the information contained in this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and the surveyor, and reflects the construction as actually accomplished and is in substantial compliance with the Approved Plans.

Gregory P. Kiehl
N.M.P.E. 1195
Professional Engineer



DOUBLE "D" INLET DETAIL
N.T.S.

SANITARY SEWER SERVICES

TRACT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
B	11+18.33	43.87	47.25RT
C	12+21.87	47.63	47.25RT
D	16+44.79	58.71	40.00LT
A	18+80.20	63.94	31.85RT

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46"
8"	22'	9'	4'	2'	60"
LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.					

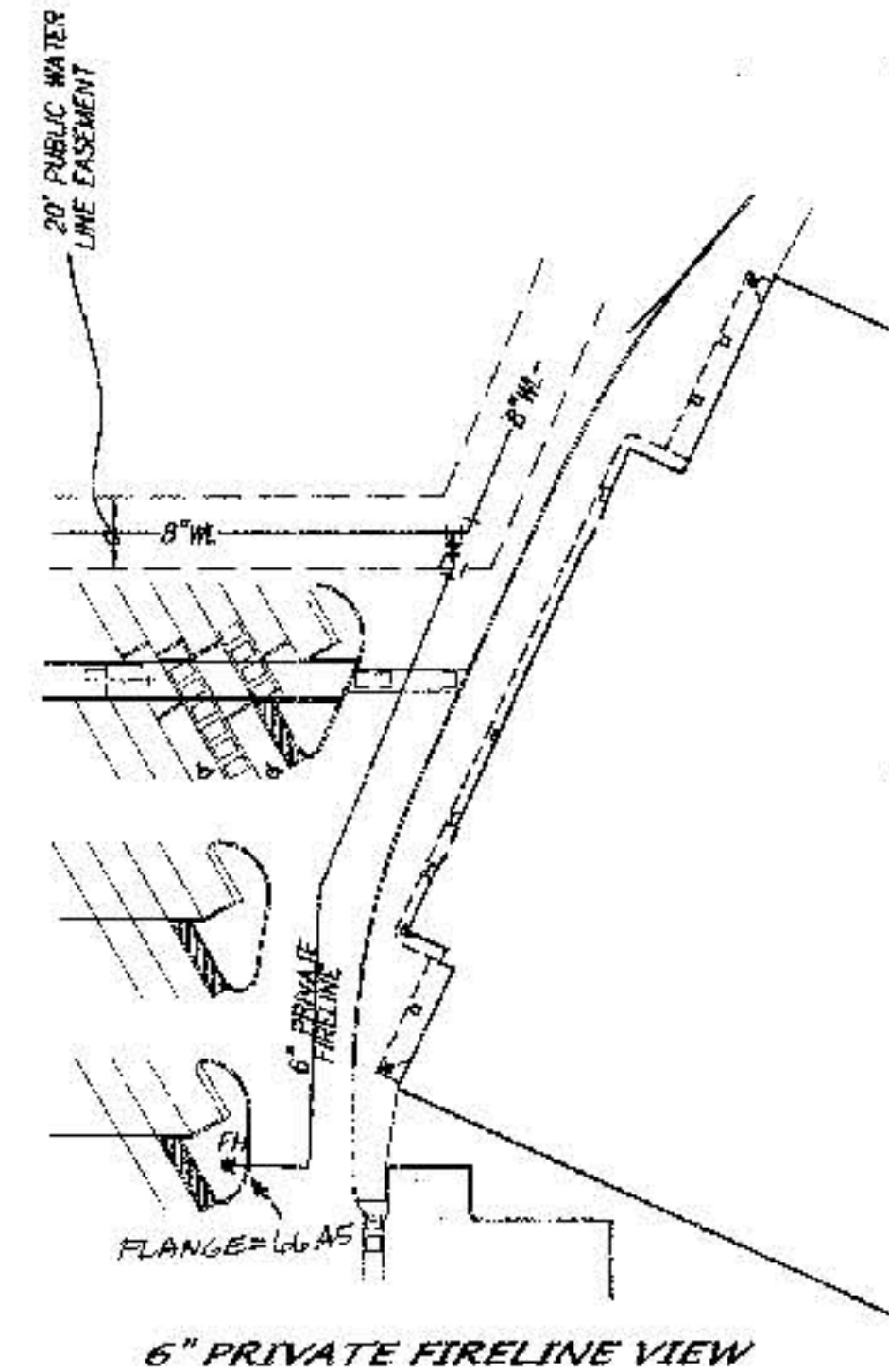
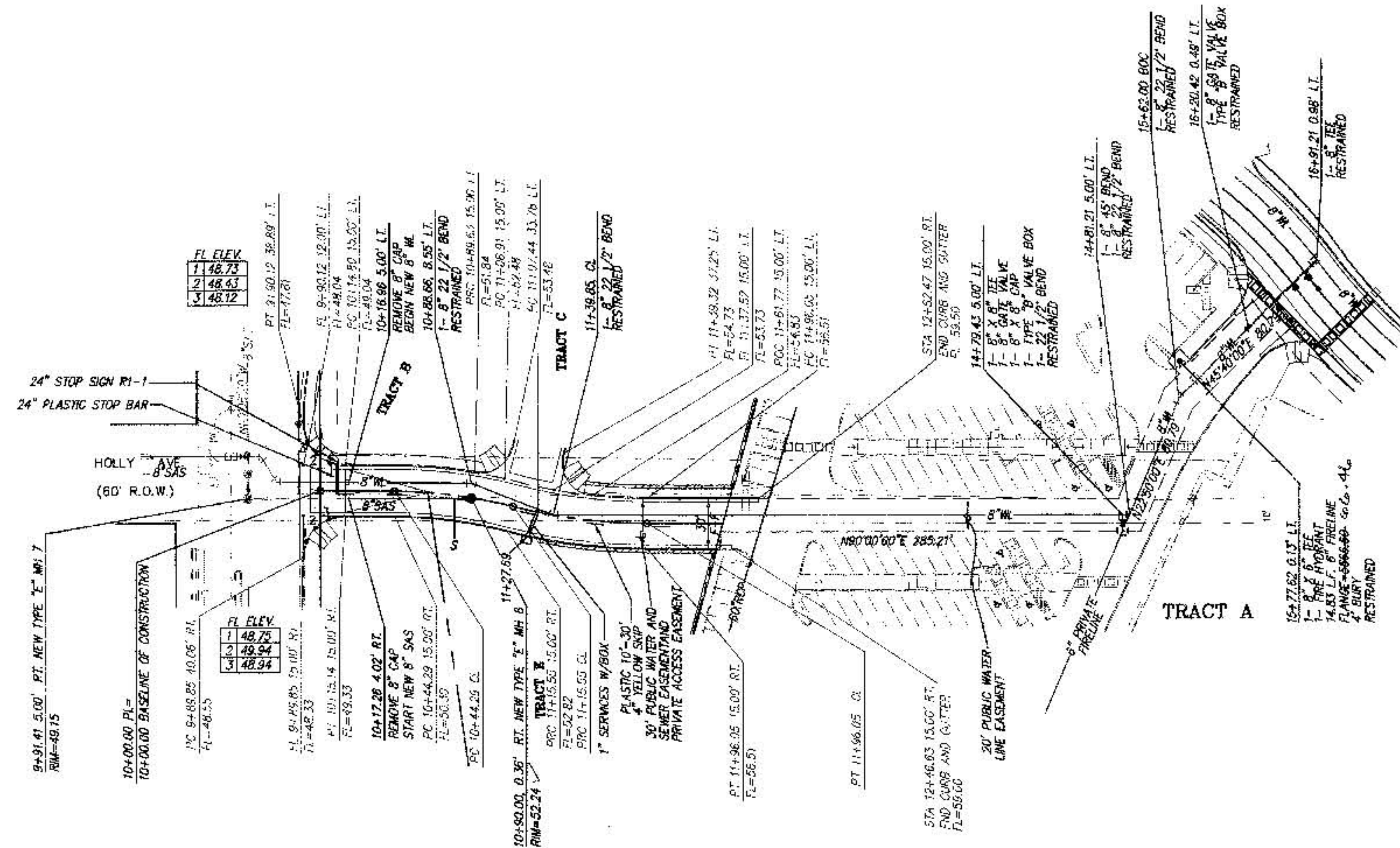
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87139
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

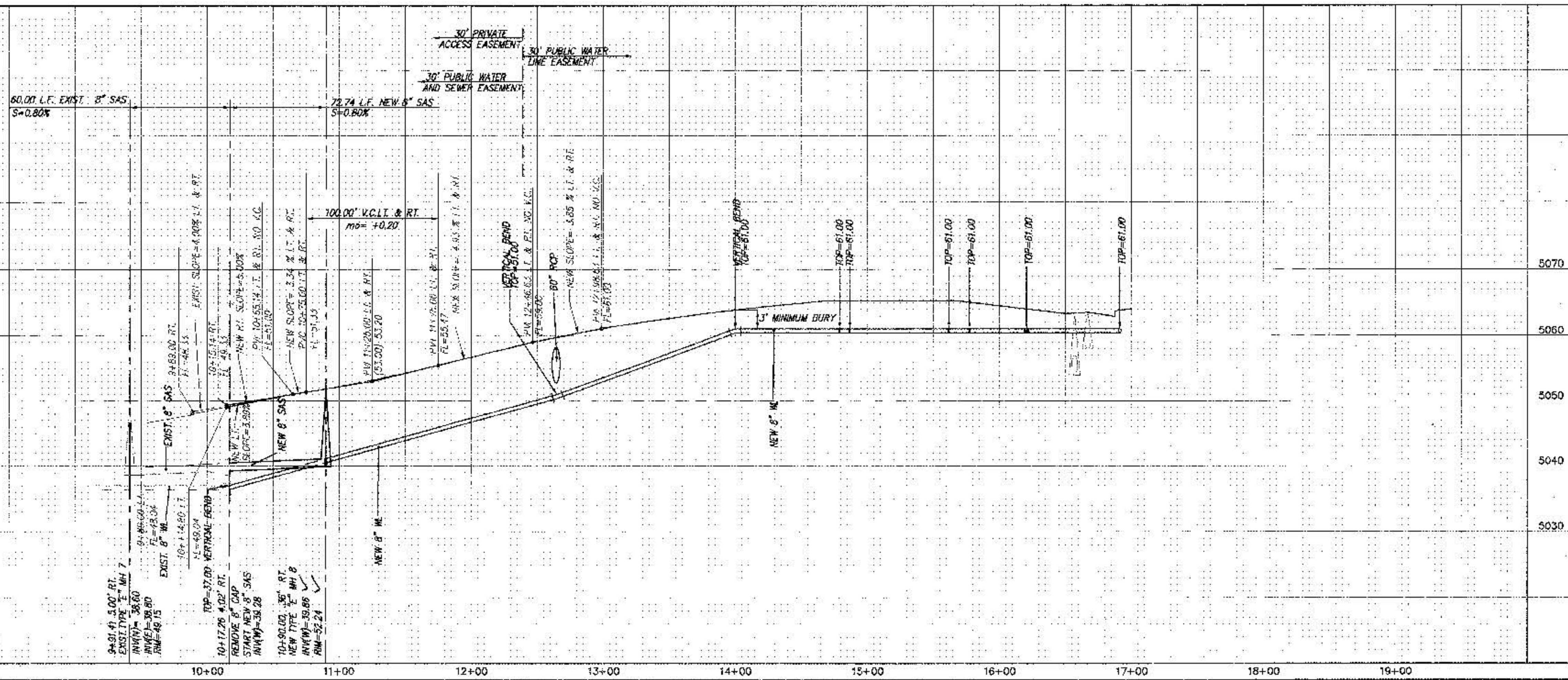
TITLE: FURR'S PASEO del NORTE-VENTURA
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	APPROVE
DATE: 9/28/95	BY: [Signature]
DESIGNED BY: GJK	DATE: 6/99
DRAWN BY: KJS	DATE: 6/99
CHECKED BY: DWG	DATE: 6/99

CITY PROJECT NO. 601982
ZONE MAP NO. C-20-2
SHEET 8 OF 11



HOLLY - VENTURA
STA. 9+91.41 TO STA. 16+91.21
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

- ALL STATIONING IS CENTERLINE STATIONING.
- CENTERLINE IS PROPERTY LINE.

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich and Company, and reflects the construction as actually accomplished. This drawing is in substantial compliance with the Approved Plans.

Gregory A. Krenik
NIMPE 11528

TRACT	STATION AT PL	INV. ELEV. 10' BEHIND CURB	LENGTH
E	10+80.13	46.54	24.00 RT

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
8"	22'	9'	4'	2'	60'

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

PIPE SIZE	RUN	BRANCH
8"x8"x6"	13'	3'
10"x10"x8"	6'	1'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 30068
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

FURR'S - HOLLY - VENTURA
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE
APPROVE
DATE 2/18/98

CITY ENGINEER
APPROVE
DATE 2/18/98

NO. DATE REMARKS
REVISIONS
DESIGN
DESIGNED BY GJK
DRAWN BY KJS
CHECKED BY DMG

DATE 7/99
DATE 7/99
DATE 7/99

CITY PROJECT NO. 601982
ZONE MAP NO. C-20
SHEET 9 OF 11

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING 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 WITH THE UNDERSTANDING THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. 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.

3. 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.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND SIGNED BY CONSTRUCTION COORDINATION.

5. 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.

6. 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 CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. 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.

8. 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.

9. 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.

10. 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.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.

12. 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.

13. 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.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. 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.

18. 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.

19. 48 HOURS PRIOR TO OCCUPANCY 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.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. 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.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

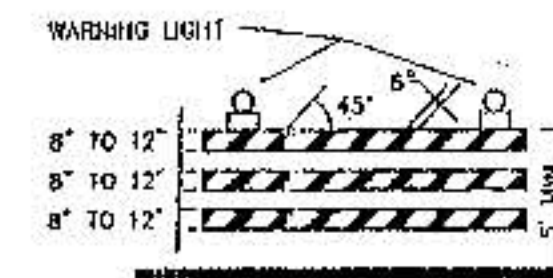
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

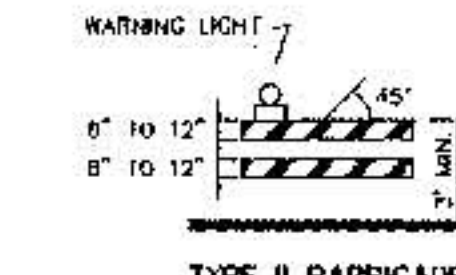
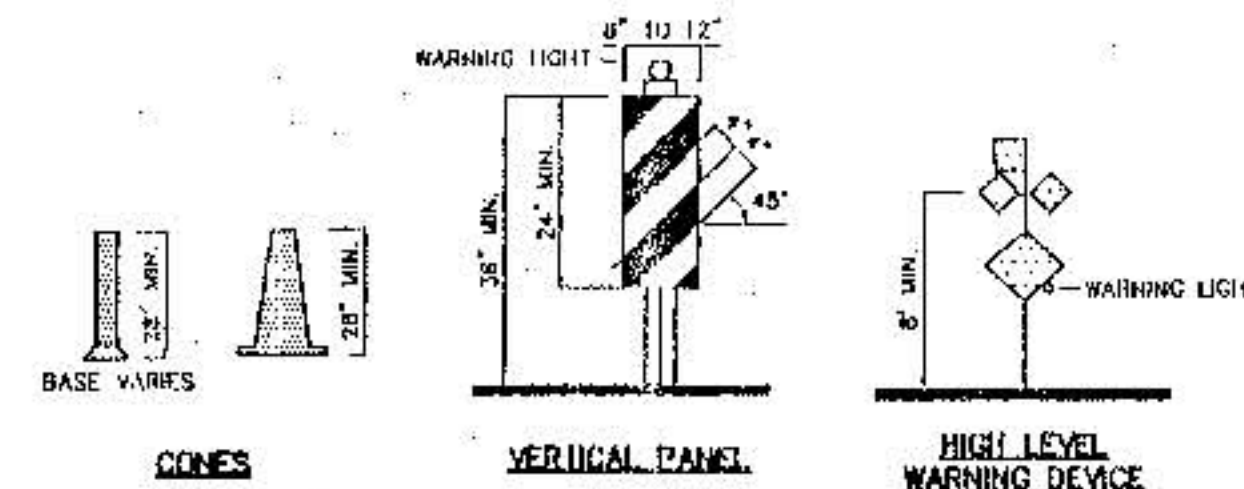
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. 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 M.U.T.C.D.

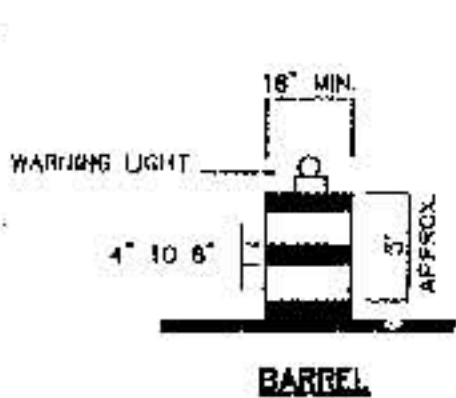
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



TYPE II BARRICADE



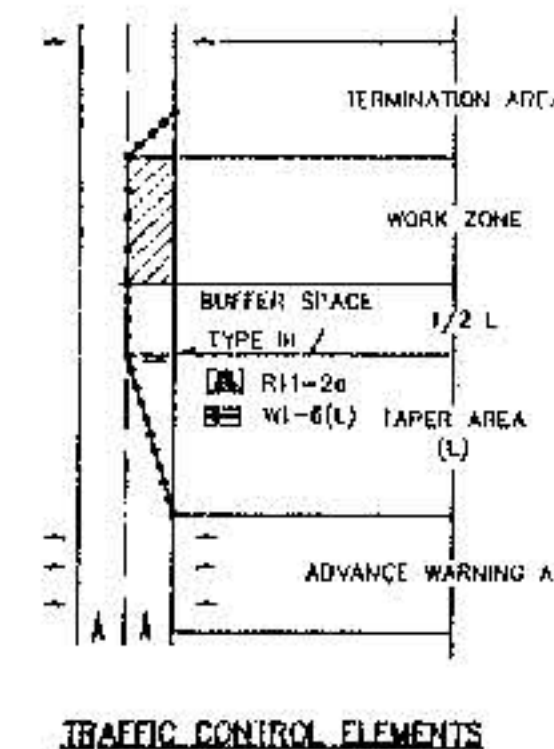
TYPE II BARRICADE



BARREL



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
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

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		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

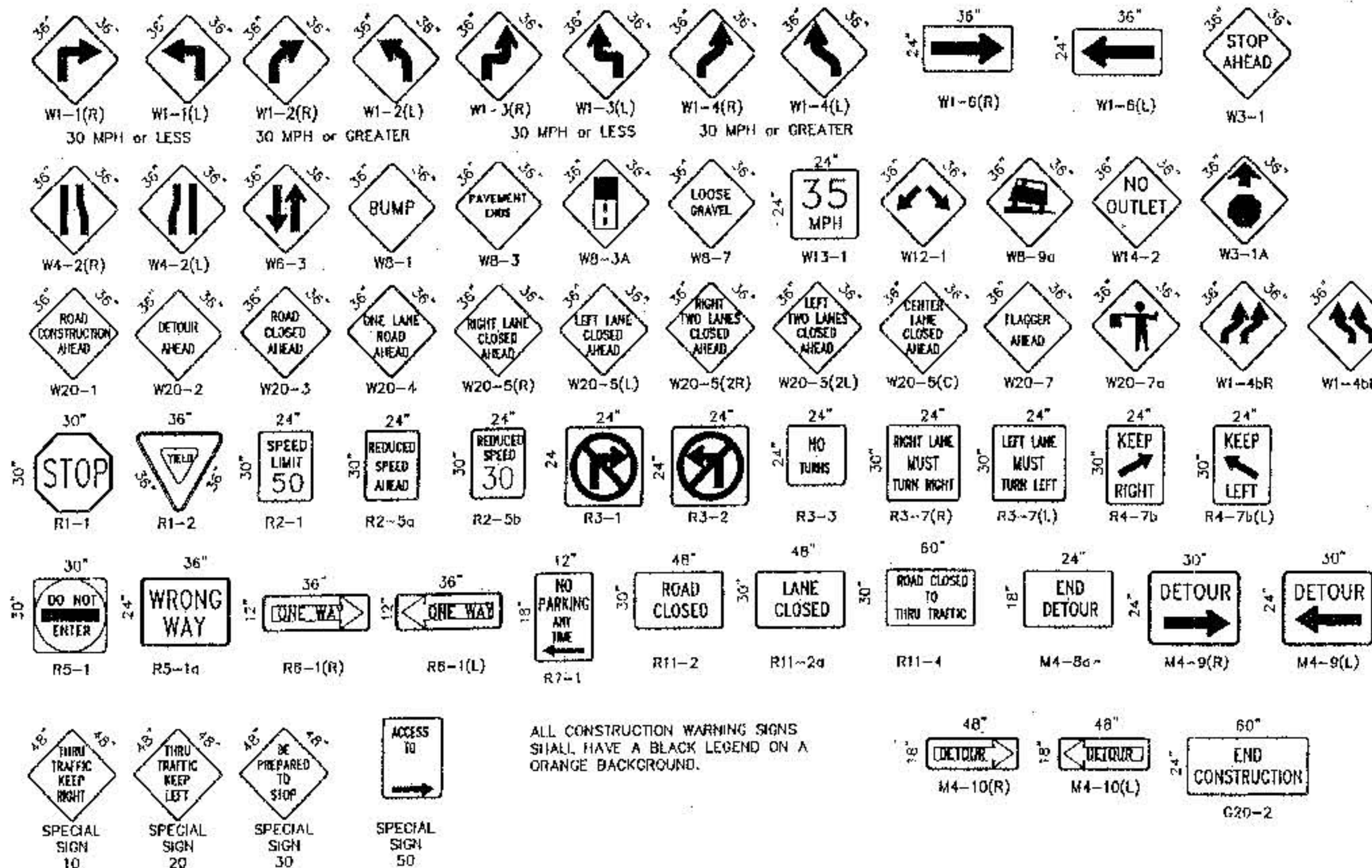
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING 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	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$
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: **FLARR'S - HOLLY - VENTURA**
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE: **COP** CITY ENGINEER APPROVAL: **STD**

PROJECT NO. **601982** MAP NO. **C-20** SHEET **11** OF **11**