

PLANS FOR CONSTRUCTION OF

EMCORE ATR

WATER, SEWER, AND DRAINAGE

IMPROVEMENTS

ALBUQUERQUE, NEW MEXICO

NOVEMBER, 2000

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APPROVAL OF RECORD DRAWINGS
CHIEF-CONSTRUCTION ENGINEER
Paul T. Brasher
DATE 10-5-01

SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

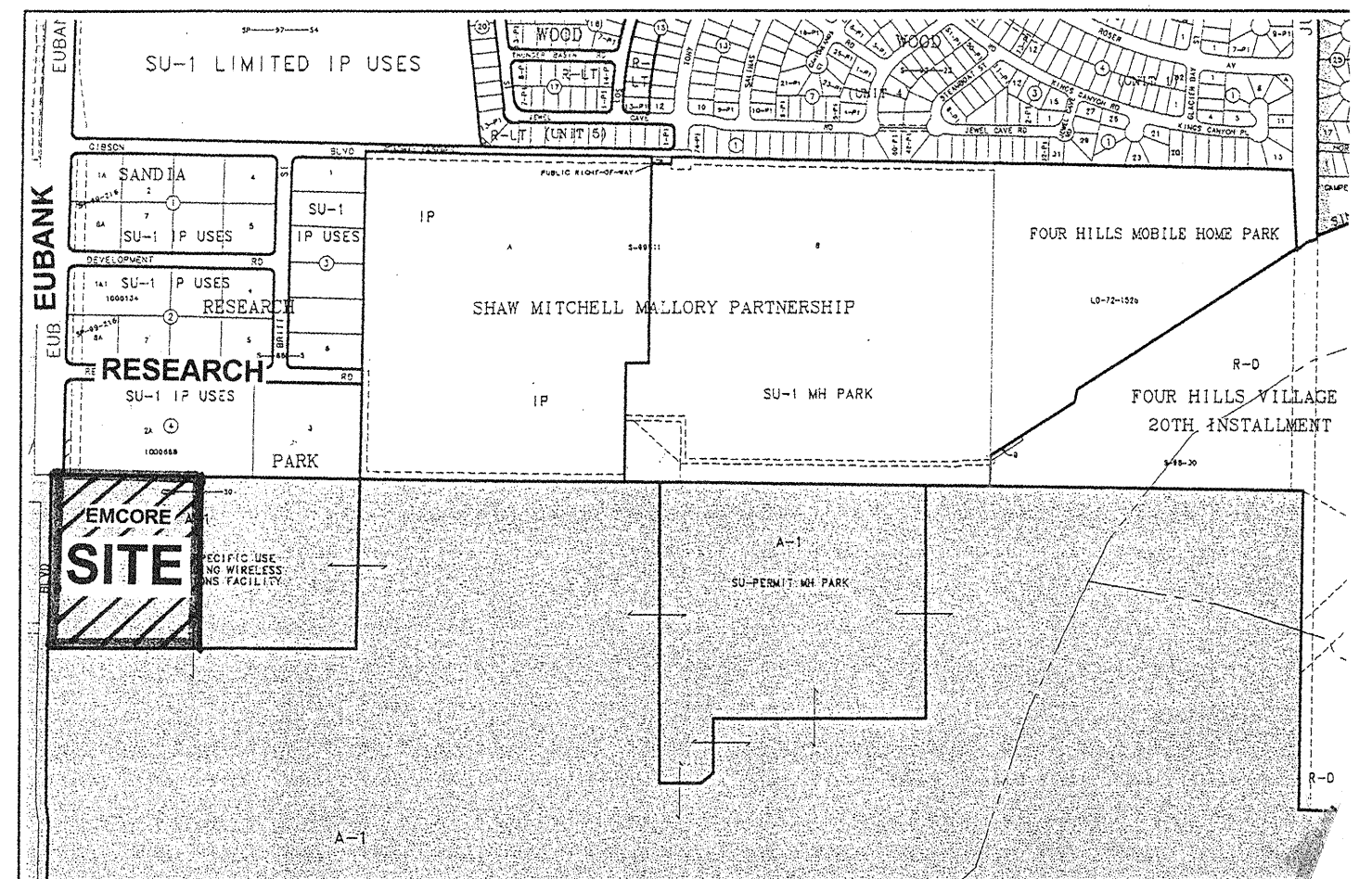
Timothy Aldrich, P.S. No. 7719

09-18-01
Date

PROJ NO. 1000554
DRB NO. 00450-00000-01483

BRASHER & LORENZ
CONSULTING ENGINEERS

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Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188



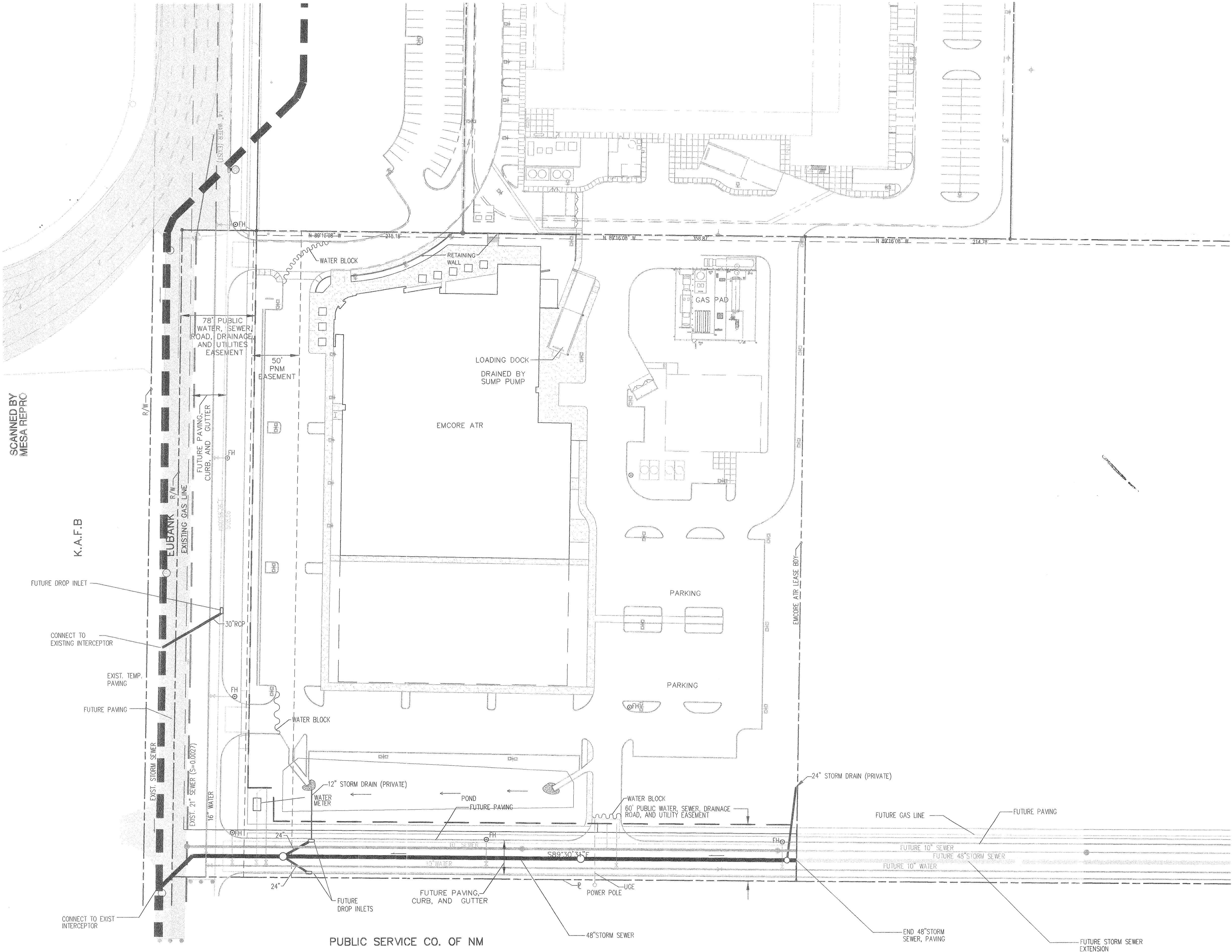
VICINITY MAP: M-21

SCALE: NTS

GENERAL NOTES:

- CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS." ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS
- THREE WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
- 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.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF 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 MARKER 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.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE STANDARD SPECIFICATIONS.
- ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY THE CONTRACTOR WITH HOT THERMOPLASTIC REFLECTORIZED PAVEMENT MARKING. ALL NEW STRIPING SHALL BE HOT THERMOPLASTIC REFLECTORIZED PAVEMENT MARKING.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, WHEELCHAIR RAMPS AND SIDEWALKS DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER THE STANDARD SPECIFICATIONS AT HIS OWN EXPENSE.
- EXISTING UTILITY LINES AND PIPELINES SHOWN ON THESE DRAWINGS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. UTILITIES MAY EXIST WHERE NONE ARE SHOWN. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES AND PIPELINES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGE CAUSED BY FAILURE TO LOCATE AND PRESERVE EXISTING UTILITY LINES AND PIPELINES.
- THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE OWNERS FOR THE PREPARATION OF "RECORD DRAWINGS." THE CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY AND PREPARED BY BRASHER AND LORENZ, INC.
- THE CONTRACTOR SHALL DETERMINE IN ADVANCE OF HIS CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15 FEET (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.

REV.	SHEETS	CITY	ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****						
	DRC Chairman	<i>Paul T. Brasher</i>	3-15-01	APPROVED FOR CONSTRUCTION						
	Transportation	<i>Paul T. Brasher</i>	2-05-01							
	Water/Wastewater	<i>Paul T. Brasher</i>	02-02-01							
	Hydrology	<i>Paul T. Brasher</i>	2-5-01							
	CIP	<i>Paul T. Brasher</i>	3-15-01							
Constr. Mngmt.	<i>Paul T. Brasher</i>	3-15-01	City Engineer Date							
Constr. Coord.	<i>Paul T. Brasher</i>	3-15-01								
CITY PROJECT NO.								SHEET		OF
654881								1		11



- LEGEND
- 6001 --- EXISTING CONTOUR ELEVATION
 - 02.5 x EXISTING SPOT ELEVATION
 - 01 — PROPOSED CONTOUR ELEVATION
 - PROPERTY LINE
 - 01.5 + PROPOSED SPOT ELEVATION
 - ← DIRECTION OF FLOW
 - DRAINAGE SWALE
 - DRAINAGE BASIN DIVIDE
 - ② HEC 2 SECTION I.D.
 - ~~~~~ WATER BLOCK
 - EXISTING PAVING

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO. DATE		FIELD NOTES		DATE		CONTRACTOR	
1 4/6/01		SHEET REVISED TO SHOW NEW LOCATIONS OF LINES IN 60' EASEMENT		AS 7-1120 A SQUARE CHISEL ON TOP OF THE CONCRETE BASE OF A METALLIC POWERLINE Pylon. LOCATED ALONG AN ELECTRIC POWERLINE, ABOUT 55 FT WEST OF THE CENTERLINE OF EUBANK BLVD., 0.95 MILES SOUTH OF THE INTERSECTION WITH CENTRAL AVE. ELEVATION = 5468.80		ALS, INC. 2001	
REVISIONS		REMARKS		DATE		DATE	
DESIGN		DESIGN		11-2000		09/01	
DRAWN BY		L.A.N.		DATE		DATE	
11-2000		11-2000		11-2000		09/01	
CHECKED BY		P.B.		DATE		DATE	
11-2000		11-2000		11-2000		09/01	

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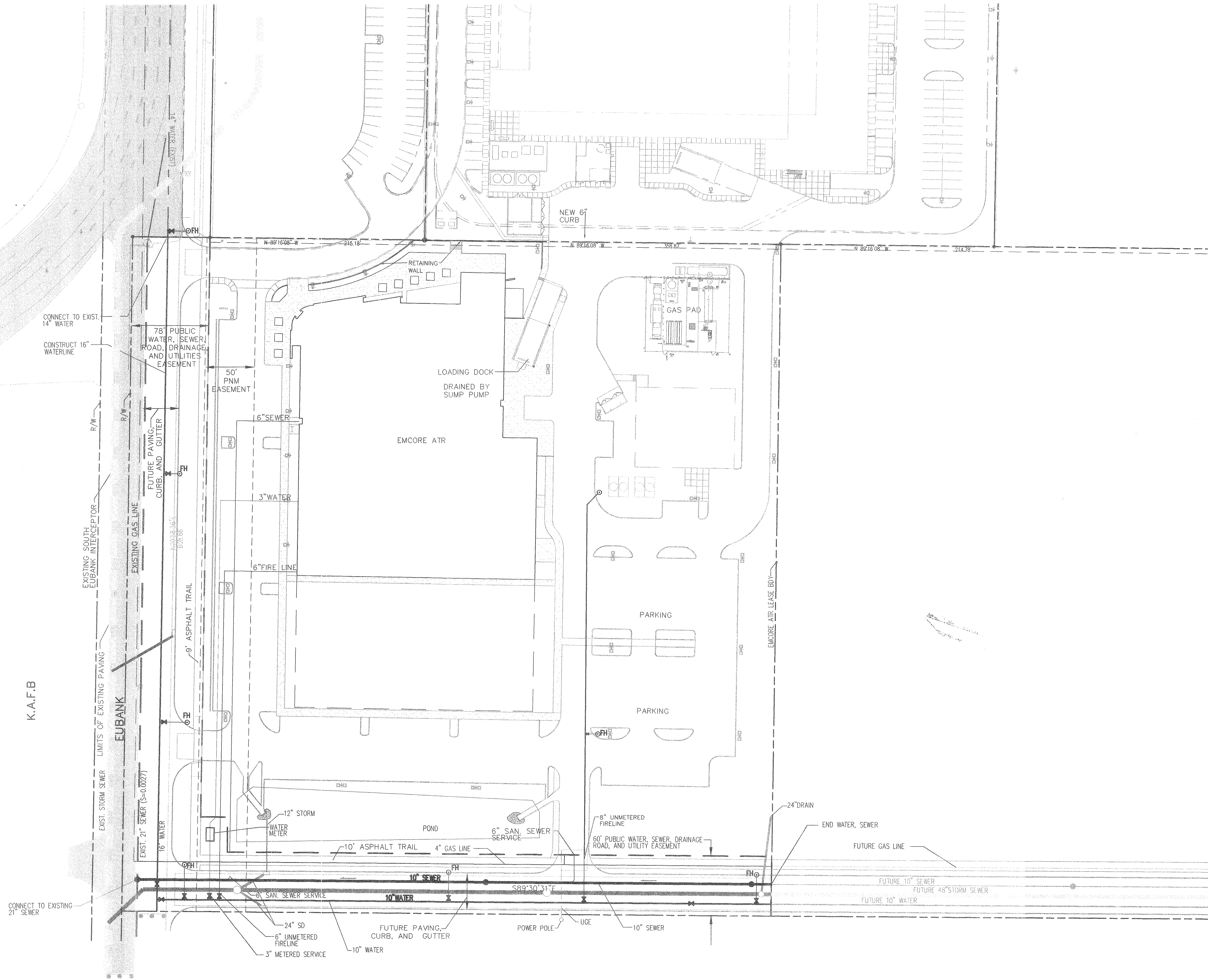
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EMCORE ATR
STORM DRAINAGE LAYOUT

City Project No.	Zone Map No.	Sheet	Of
654881	M-21	4	11

SCANNED BY
MESA REPRO

K.A.F.B



PUBLIC SERVICE CO. OF NM

LEGEND

- 8001 — EXISTING CONTOUR ELEVATION
- 02.5 x EXISTING SPOT ELEVATION
- 01 — PROPOSED CONTOUR ELEVATION
- · — PROPERTY LINE
- 01.5 + PROPOSED SPOT ELEVATION
- ← DIRECTION OF FLOW
- DRAINAGE SWALE
- - - DRAINAGE BASIN DIVIDE
- ② — HEC 2 SECTION I.D.
- WATER BLOCK
- EXISTING PAVING

N

1 inch = 50 ft.

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

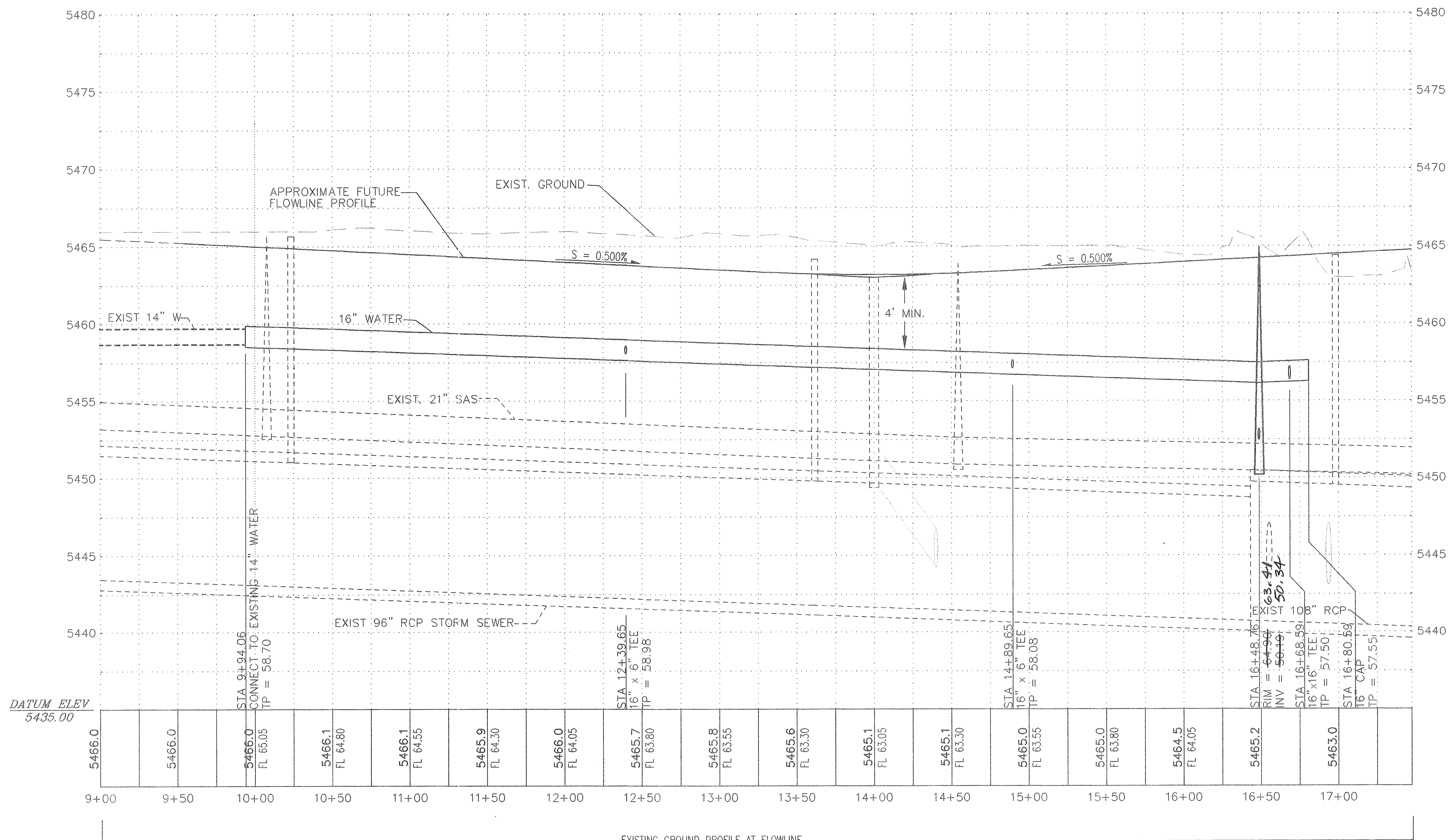
TITLE: **EMCORE ATR
WATER & SANITARY SEWER LAYOUT**

APPROVED DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./Day/Yr.	Mo./Day/Yr.

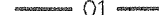
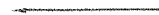
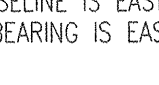
City Project No. **654881** Zone Map No. **M-21** Sheet **5** Of **11**

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		DATE		CONTRACTOR	
		NO.	BY	NO.	BY	WORK	DATE
REVISIONS		NO. DATE		NO. DATE		INSURANCE	
		DESIGN		DATE		ACCEPTANCE BY	
DESIGNED BY P.B.		DATE		DATE		VERIFICATION BY	
		DRAWN BY L.A.N.		DATE		DRAWINGS	
CHECKED BY P.B.		DATE		DATE		BY	
		DATE		DATE		MICRO-FILM INFORMATION	
						RECORDED BY	
						NO.	

SCANNED BY
MESA REPRO


$$1'' = 50' \text{ (H)}$$
$$1'' = 5' \text{ (V)}$$

LEGEND

- | | |
|---|----------------------------|
|  | EXISTING CONTOUR ELEVATION |
| 02.5 X | EXISTING SPOT ELEVATION |
|  | PROPOSED CONTOUR ELEVATION |
|  | PROPERTY LINE |
| 01.5 X | PROPOSED SPOT ELEVATION |
|  | DIRECTION OF FLOW |
|  | DRAINAGE SWALE |
|  | DRAINAGE BASIN DIVIDE |
| ②  | HEC 2 SECTION I.D. |
|  | WATER BLOCK |
|  | EXISTING PAVING |

SURVEY BASELINE IS EAST R/W LINE OF EUBANK BLVD.
BASIS OF BEARING IS EAST R/W LINE OF EUBANK BLVD

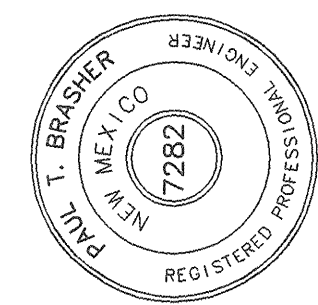
DRMATION

BENCH MARKS

REVIEW INFORMATION

5

ENGINEER'S SEAL



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EXIT

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SHELOC

4/6/11

Figure 1

RESULTS

GRO

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EMCORE ATR
EUBANK WATER

Design Review Committee

MAY 11 2001

DESIGN
REVIEW COMMITTEE

City Engineer Approval

Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.

Zone Map No.	
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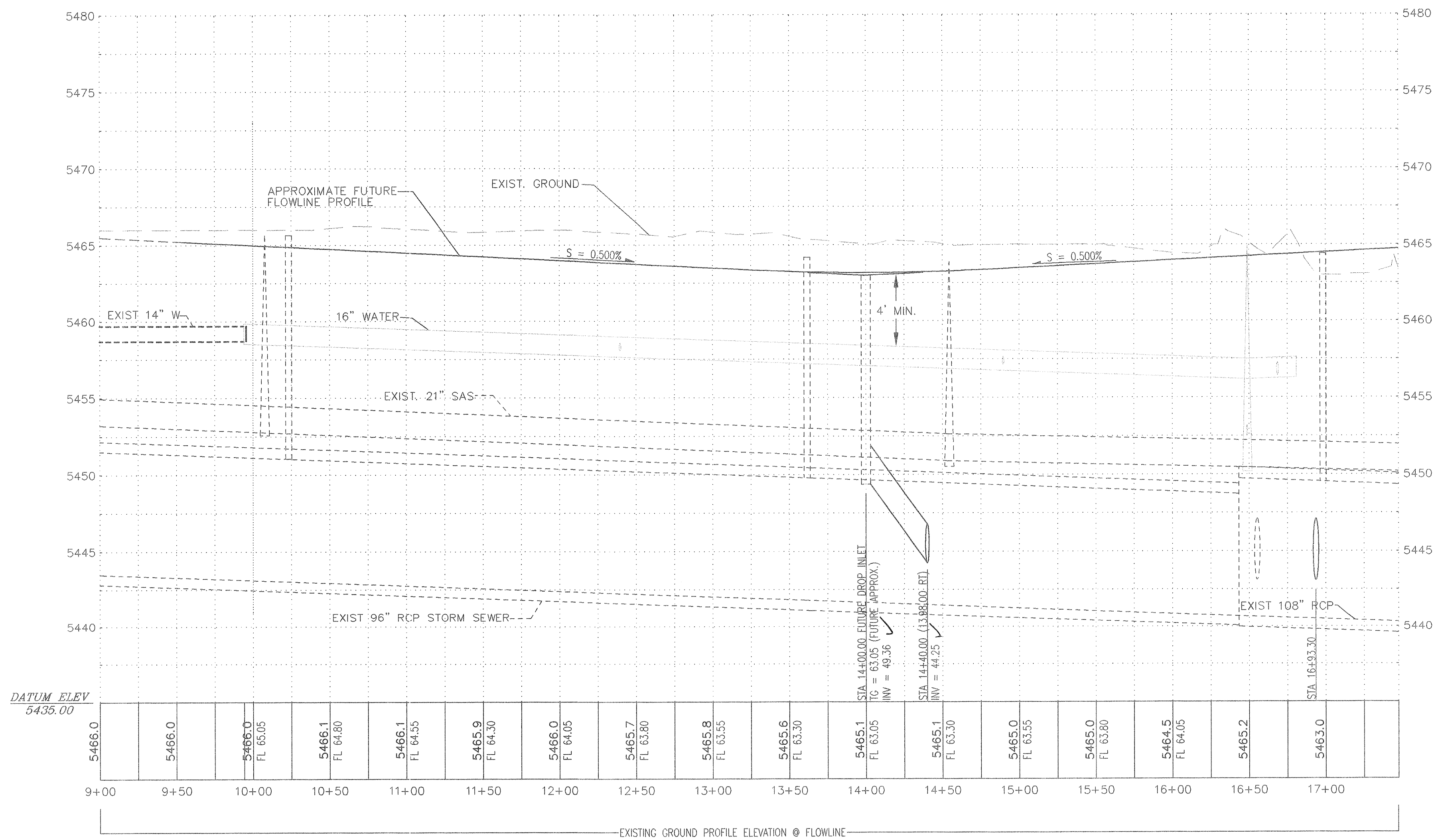
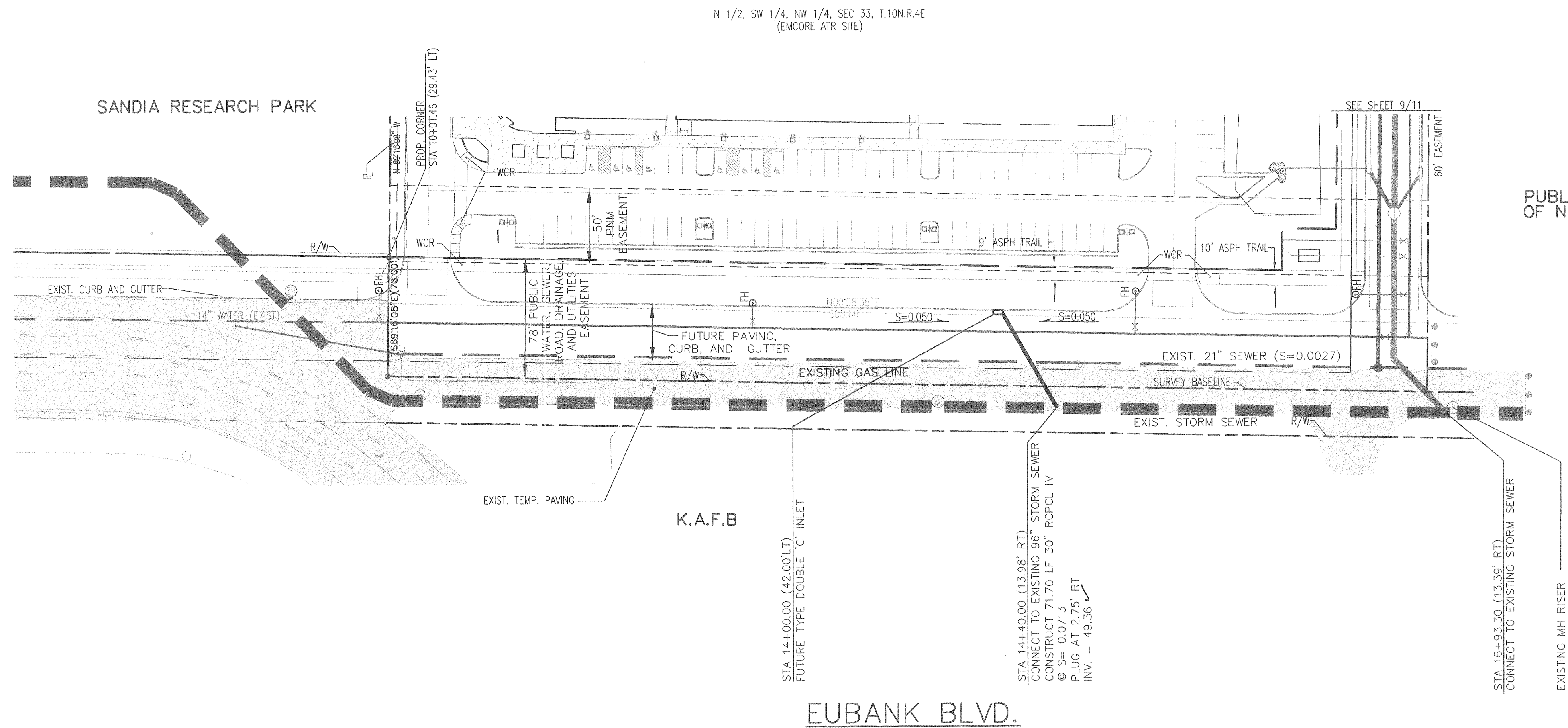
Sheet	Of
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654881

Zone Map No.
M-21

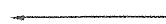
Sheet	Of
6	

SCANNED BY
MESA REPRO



$1'' = 50'$ (H)
$1'' = 5'$ (V)

LEGEND

- | | |
|---|----------------------------|
|  | EXISTING CONTOUR ELEVATION |
| 02.5 X | EXISTING SPOT ELEVATION |
|  | PROPOSED CONTOUR ELEVATION |
|  | PROPERTY LINE |
| 01.5 X | PROPOSED SPOT ELEVATION |
|  | DIRECTION OF FLOW |
|  | DRAINAGE SWALE |
|  | DRAINAGE BASIN DIVIDE |
| ②  | HEC 2 SECTION I.D. |
|  | WATER BLOCK |
|  | EXISTING PAVING |

SURVEY BASELINE IS EAST R/W LINE OF EUBANK BLVD.
BASIS OF BEARING IS EAST R/W LINE OF EUBANK ROAD

FORMATION

1

BENCH MARKS

VEY INFORMATION

ENGINEER'S SEAL



1	4/6/01	SHEET REVISED TO SHOW NEW	PR
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LOCATIONS OF LINES IN 60' EASEMENT

NO.	DATE	REMARKS	B
<i>REVISIONS</i>			

DESIGNED BY	P. P.	DATE	11-2000
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DRAWN BY	L.A.N.	DATE	11-2000
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:	EMCORE ATR EUBANK STORM SEWER
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Design Review Committee City Engineer Approval

APPROVE

MAY 1 2004

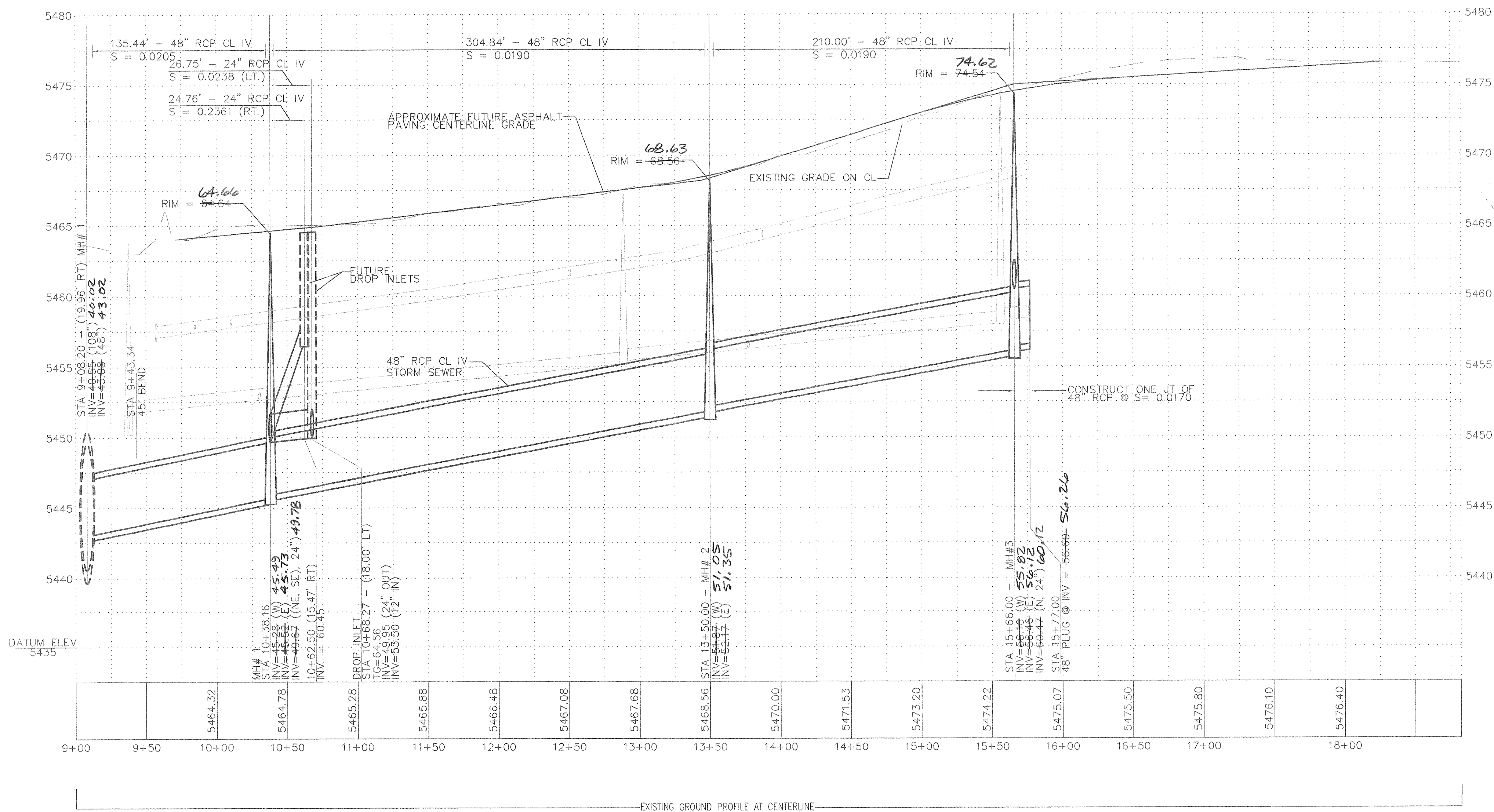
DESIGN
REVIEW COMMITTEE

CITY ENGINEER

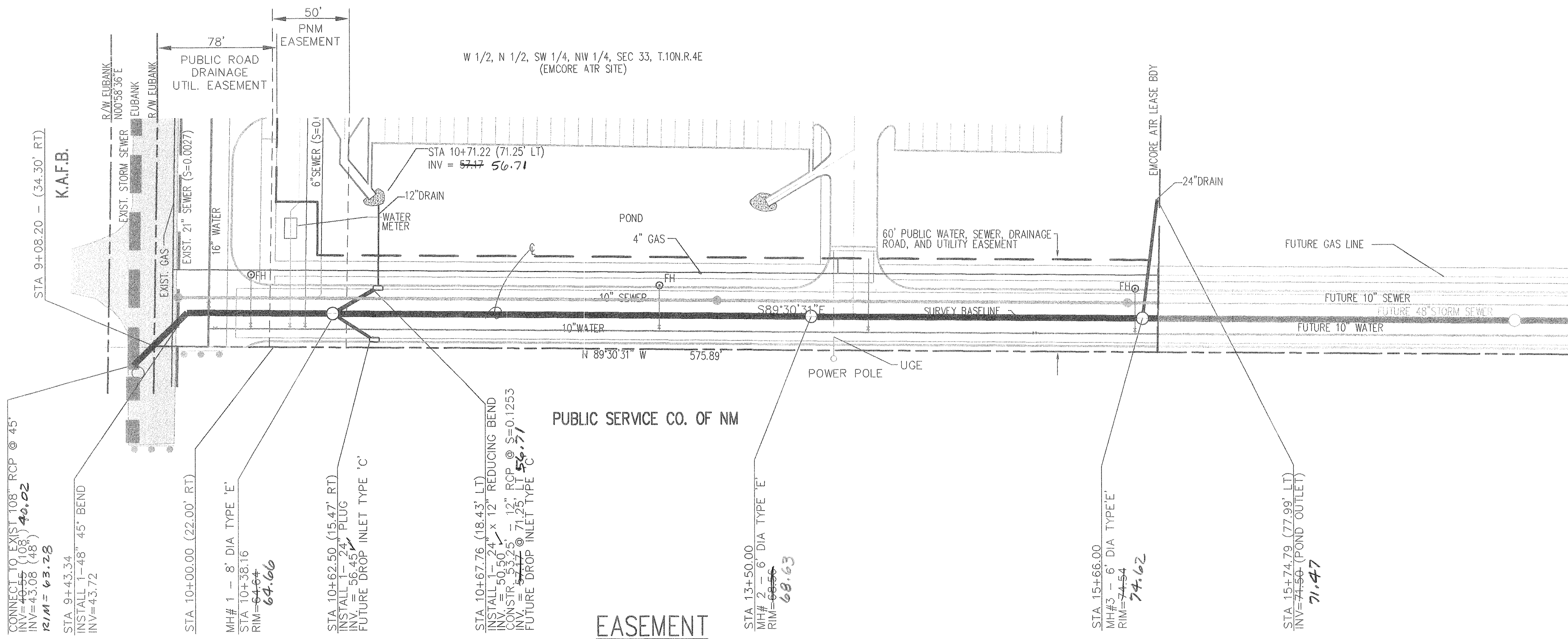
Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 654881	Zone Map No. M-21	Sheet 8	Of 11
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MESA REPRO



1" = 50' (H)
1" = 5' (V)



- LEGEND
- 600' --- EXISTING CONTOUR ELEVATION
 - 02.5 X EXISTING SPOT ELEVATION
 - 01 --- PROPOSED CONTOUR ELEVATION
 - . . . --- PROPERTY LINE
 - 01.5 X PROPOSED SPOT ELEVATION
 - ← DIRECTION OF FLOW
 - DRAINAGE SWALE
 - DRAINAGE BASIN DIVIDE
 - ② HEC 2 SECTION I.D.
 - WATER BLOCK
 - EXISTING PAVING

SURVEY BASELINE IS STORM SEWER
BASIS OF BEARING IS SOUTH PL N 1/2, SW 1/4, SEC 33
T 10N R 4E

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	DATE	CONTRACTOR	WORK	DATE	DATE
				ALV, INC	TR 1AD	2001	
				INSPECTED BY	ALV, INC	2001	
				APPROVED BY	ALV, INC	2001	
				VERIFIED BY	ALV, INC	2001	
				CONTRACTOR	ALV, INC	2001	
				MICRO-FILM INFORMATION			
				RECORDED BY		DATE	
				NO.			

REVISIONS		DESIGN	
NO.	DATE	DESIGNED BY	DATE
1	4/9/01	P.B.	11-2000
2	4/17/01	L.A.N.	11-2000
3		P.B.	11-2000
REMARKS		DESIGN	
CHANGE SEWER FROM 8" TO 10"			
CHANGE LOCATION OF WATER/SEWER/ST SEWER			

DESIGNED BY P.B. DATE 11-2000
DRAWN BY L.A.N. DATE 11-2000
CHECKED BY P.B. DATE 11-2000

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **EMCORE ATR
EASEMENT STORM SEWER**

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED			
DESIGN REVIEW COMMITTEE	CITY ENGINEER			

City Project No. **654881** Zone Map No. **M-21** 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 VERIFIED 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 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.

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. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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. 24 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.

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.

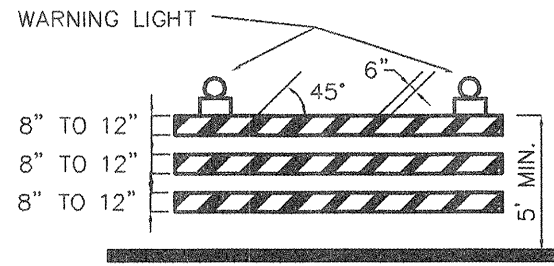
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC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

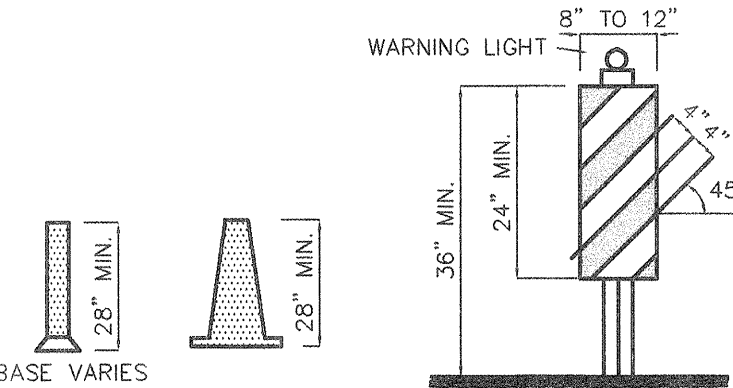
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

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

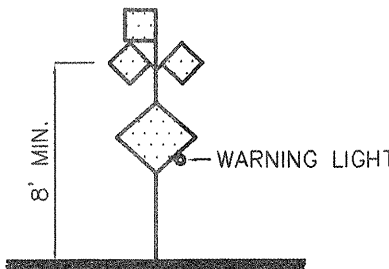
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



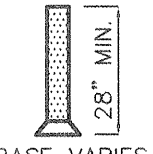
TYPE III BARRICADE



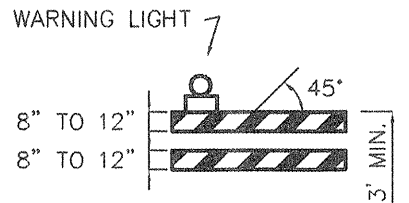
VERTICAL PANEL



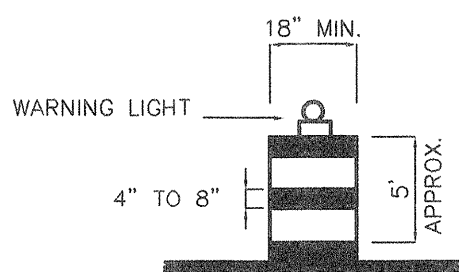
HIGH LEVEL WARNING DEVICE



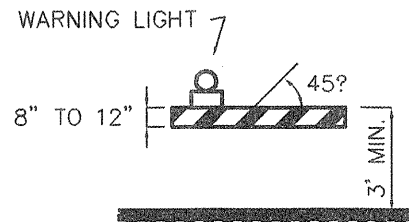
CONES



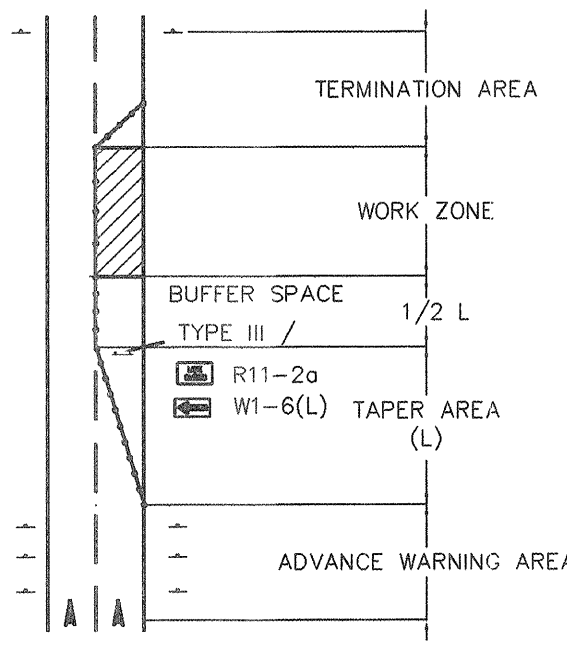
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



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

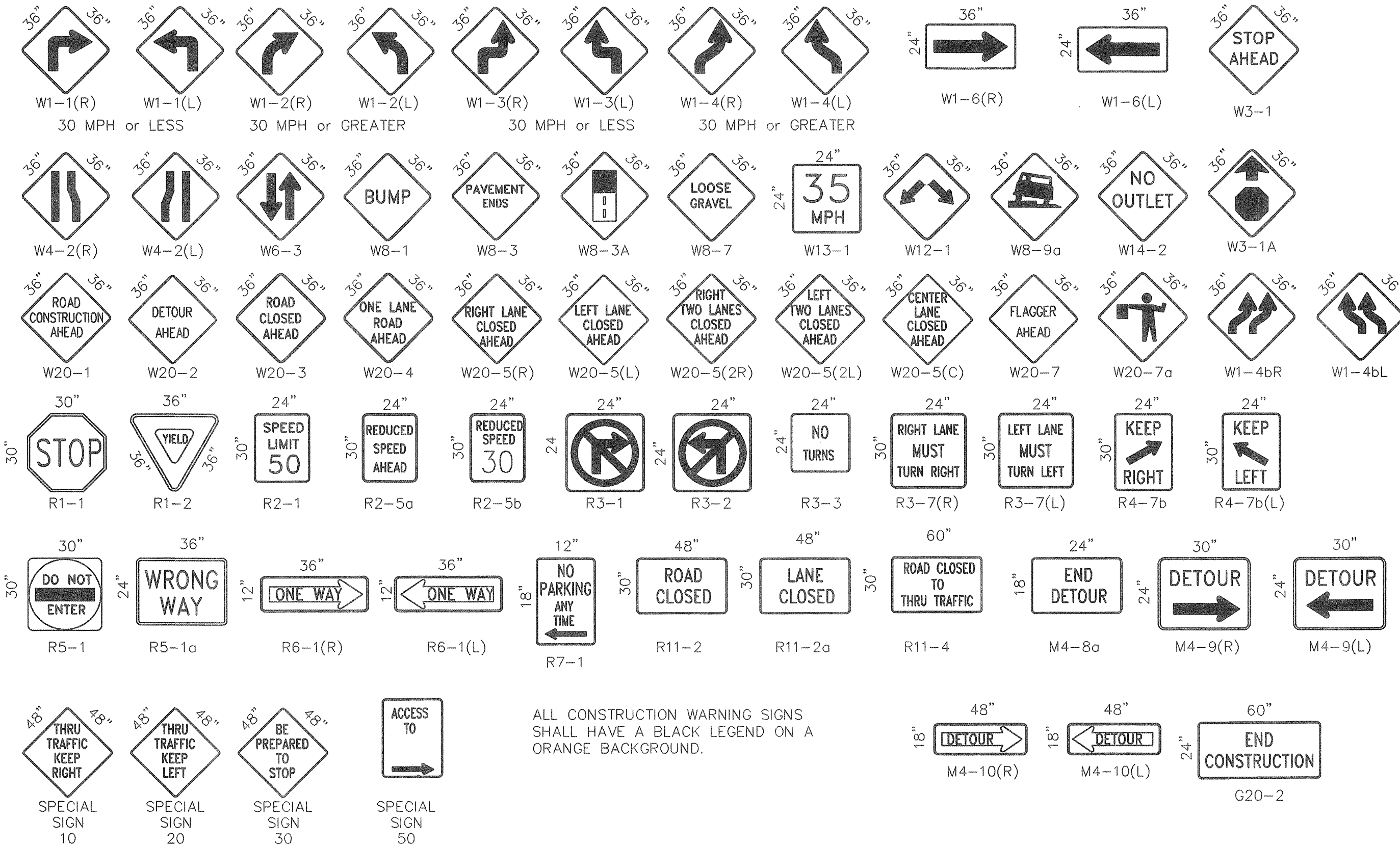
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

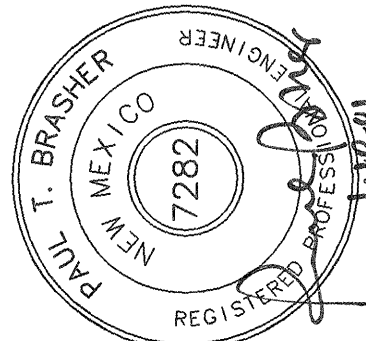
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



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

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	BY	NO.	BY
CONTRACTOR: TOLINO	DATE: 2/20/20	NO.	BY	NO.	BY	NO.	BY	NO.	BY
WORK: ACS BRASS CAP IN MONUMENT BOX, LOCATED 7.6' SOUTH 8.4' WEST OF COORS BLVD. MEDIAN	DATE: 2/20/20	NO.	BY	NO.	BY	NO.	BY	NO.	BY
DESIGNED BY: ALS, INC.	DATE: 2/20/20	NO.	BY	NO.	BY	NO.	BY	NO.	BY
CHECKED BY: ALS, INC.	DATE: 2/20/20	NO.	BY	NO.	BY	NO.	BY	NO.	BY
RECORDED BY: ALS, INC.	DATE: 2/20/20	NO.	BY	NO.	BY	NO.	BY	NO.	BY
NO.	DATE	NO.	BY	NO.	BY	NO.	BY	NO.	BY



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: EMCORE ATR TRAFFIC CONTROL DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST UPDATE	
COA	570	MO./DAY/YR.	
PROJECT NO. 654881		MAP NO. M-21	SHEET 10 OF 11

