

DESIGN PLANS
FOR
CITY OF ALBUQUERQUE



(AS-BUILTS)

ELLISON DRIVE

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION-AS UPDATED THROUGH AMENDMENT NO. 6 AND NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (LATEST REVISION).

2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT ONE CALL SYSTEM, INC., 250-1990, FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE ALL UTILITY WORK INCLUDING CUT OFF OF EXISTING UTILITIES FOR NEW CONNECTIONS (FIRE PROTECTION, DOMESTIC WATER, SEWER, STORM DRAIN, GAS PIPING, ETC.) WITH ENGINEER, OWNER, AND LOCAL UTILITY REPRESENTATIVES.

3. THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS, AND PREVIOUS CONSTRUCTION DRAWINGS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF THE REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. ALL GAS, ELECTRIC, TELEPHONE LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.

5. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.

6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.

7. ALL EXCAVATION/CONSTRUCTION PERMITS WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR PERMITS.

8. THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO EXISTING STREETS. LOOSE SOIL STOCKPILES DURING CONSTRUCTION ACTIVITIES SHALL BE PROMPTLY CLEANED UP OR PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER.

9. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 6.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION.
10. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVING, CONCRETE CURBS AND SIDEWALKS, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE FIELD ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

11. THE CONTRACTOR WILL BE REQUIRED TO CONFINED HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE RIGHT-OF-WAY UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR THIS SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTING. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT FOR THE DESIGN, MATERIALS, INSTALLATION, AND REMOVAL OF THE SAFETY BARRIER.

12. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.

13. CONTRACTOR SHALL COORDINATE WITH NEW MEXICO UTILITIES, INC., A MINIMUM OF TWO (2) WEEKS PRIOR TO IMPLEMENTING THE PROPOSED WATER VALVE SHUT-OFF AND PRIOR TO INITIATING ANY WORK AFFECTING ANY EXISTING PUBLIC UTILITY.

14. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE PROJECT ENGINEER, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. ALL SAWCUT PAVEMENT SHALL BE SPRAYED WITH TACK COAT PRIOR TO INSTALLATION OF ADJOINING ASPHALT PAVEMENT.

15. A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE AND A CONSTRUCTION SIGNING AND BARRICADE PLAN TO CONSTRUCTION COORDINATION. TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE TRAFFIC ENGINEERING DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE SPECIFICATIONS.

16. THE CONTRACTOR SHALL PLACE THE PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE DRAWING.

17. THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF BOHANNAN-HUSTON, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.
18. 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 ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OR 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 44 OF THE SPECIFICATIONS.

19. ANY EXCAVATION WORK IN THE AREA OF ALL HIGH PRESSURE GAS LINES SHALL REQUIRE THE PRESENCE OF A GAS COMPANY OF NEW MEXICO REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE GAS COMPANY OF NEW MEXICO REPRESENTATIVE, ERMINIO GURULE, AT 345-1877, EMERGENCY NUMBER 345-6058.

20. MANHOLE STEPS WILL BE INSTALLED IN ALL STORM DRAIN MANHOLES AND JUNCTION BOXES AND CATCH BASINS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO OTHER CONTRACT ITEMS AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

21. ALL CONFLICTING EXISTING STRIPING SHALL BE REMOVED BY EITHER GRINDING OR WITH APPROVED CHEMICAL PROCEDURES.

22. REVEGETATION WITHIN POND GRADING AREAS IS CONSIDERED INCIDENTAL TO THE POND GRADING AND WILL HAVE NO SEPARATE BID ITEM.

23. ALL DISTURBED AREAS WILL BE SEEDED AND PAID FOR UNDER CITY ITEM #1011.01, SEEDING CLASS "A", NATIVE SEEDING MIXTURE WILL BE AS SPECIFIED IN THE SPECIFICATIONS.

24. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
- [X] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

[X] BACKFILL COMPACTION AND PAVING SHALL BE ACCORDING TO C.O.A. STD. DWG. 2465.

[X] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE FIELD ENGINEER.

[X] SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

[X] IF CURB IS DEPRESSED FOR A HANDICAP RAMP, THE RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.

[X] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

ABBREVIATIONS

CL - CENTERLINE

CQA - CITY OF ALBUQUERQUE

CONC - CONCRETE

CR - DEGREE OF CURVATURE

DIA - DIAMETER

DIP - DUCTILE IRON PIPE

ELEV - ELEVATION

EXIST - EXISTING

F-F - FACE TO FACE

FH - FIRE HYDRANT

FL - FLOWLINE

G - GAS

HP - HIGH PRESSURE

INV - INVERT

L - LENGTH

LT - LEFT

MH - MANHOLE

MIN - MINIMUM

MO - MIDDLE ORDINATE

NMUI - NEW MEXICO UTILITIES, INC.

PC - POINT OF CURVATURE

PCC - POINT OF COMPOUND CURVATURE

PI - POINT OF INTERSECTION

POC - POINT ON CURVE

PRC - POINT OF REVERSE CURVATURE

PRV - PRESSURE RELIEF VALVE

PT - POINT OF TANGENCY

PVC - POLYVINYL CHLORIDE

R - RADIUS

R/W - RIGHT-OF-WAY

RCP - REINFORCED CONCRETE PIPE

RT - RIGHT

S - SLOPE

SAG - SANITARY SEWER

SD - STORM DRAIN

STA - STATION

T - TANGENT

TO - TOP OF CURB

TP - TOP OF PIPE

VC - VERTICAL CURVE

VPC - VERTICAL POINT OF CURVATURE

VPI - VERTICAL POINT OF INTERSECTION

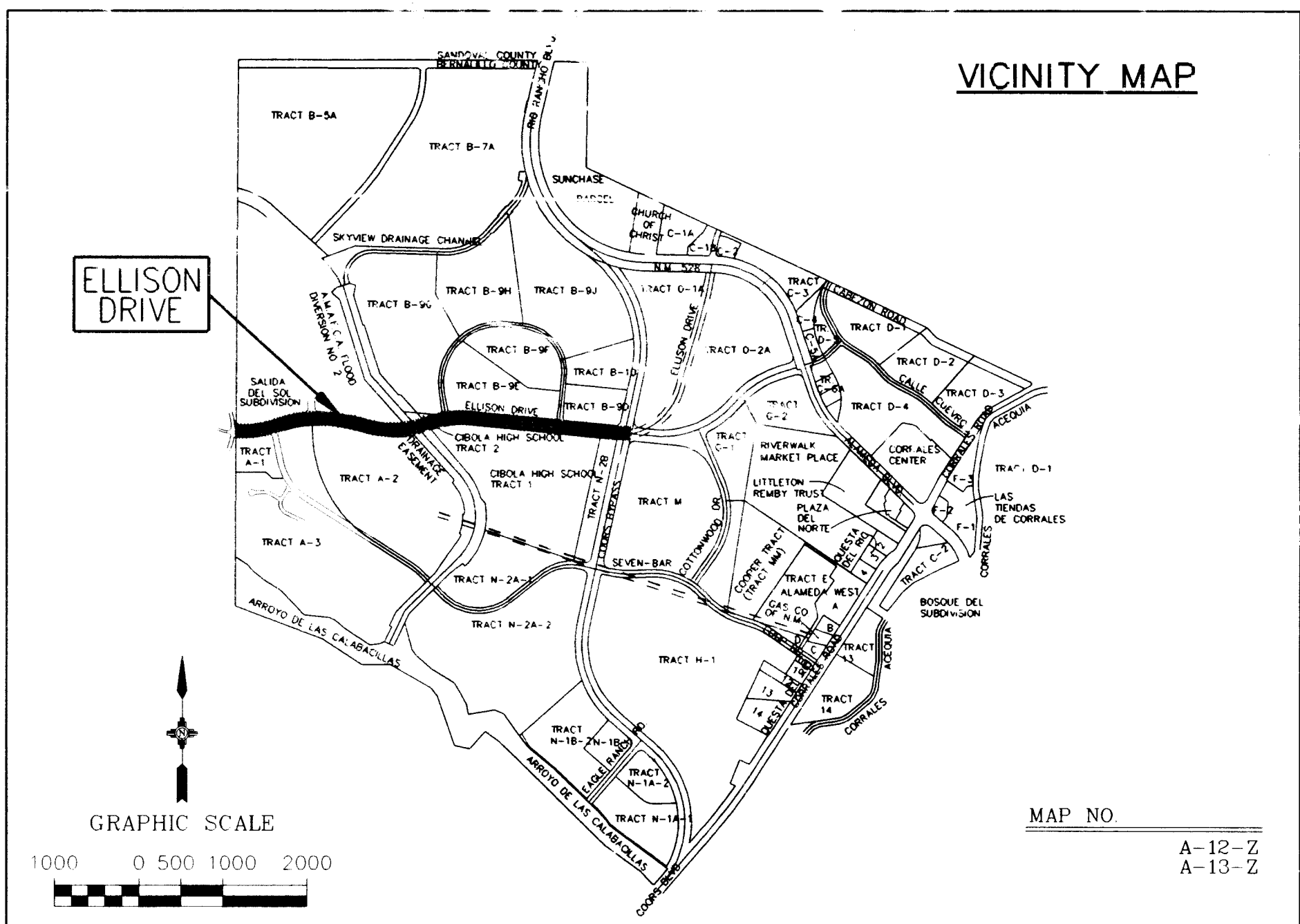
VPR - VERTICAL POINT OF REVERSE CURVE

VPT - VERTICAL POINT OF TANGENCY

W - WORK AREA

THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97



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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							

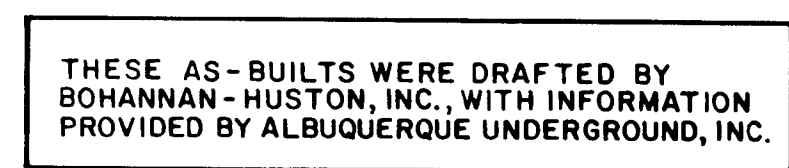
APPROVAL OF AS-BUILT DRAWINGS
CONSTRUCTION ENGINEER
DATE: 2/17/97

APPROVED FOR CONSTRUCTION
DATE: 2/17/97

SCANNED BY
LASON

PROJECT NUMBER 3727.90

SHEET 1 OF 72



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

FILE

ELUSON DRIVE IMPROVEMENTS

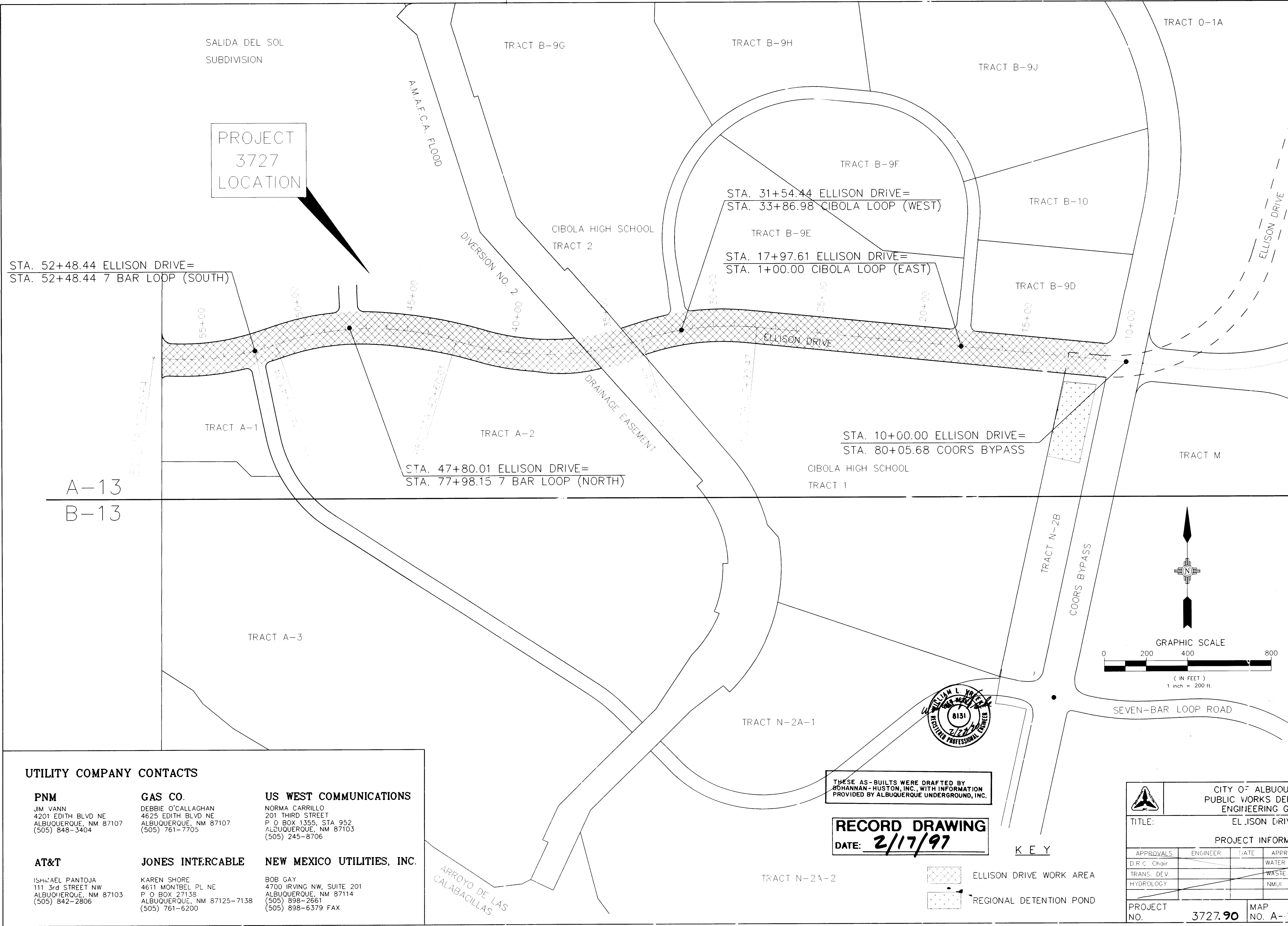
APPROVAL SHEET

3-26-96
3-13-96
3-13-96

TRAFFIC OPED.

90

SCANNED BY
BY LASON



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THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: **2/17/97**

KEY

- ELLISON DRIVE WORK AREA
- REGIONAL DETENTION POND

						CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP							
TITLE: ELISON DRIVE													
PROJECT INFORMATION													
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE								
D.R.C. Chair			WATER										
TRANS. DEV.			WASTE WATER										
HYDROLOGY			NMUI										
PROJECT NO. 3727.90			MAP NO. A-13			SHEET 3			OF 72				

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEERS SEAL		
CONTRACTOR	AUI	DATE 2/97	ACCS "3-A13" - A 3" HUGG BRASS CAP STAMPED	NO.	BY	DATE	NO.	BY	NO.	BY	DATE
WORKED BY	AUI	DATE 2/97	"PT 81, 1980, 3-A-13", SET IN CONCRETE								
INSPECTOR'S			LOCATED 0.35 MILES SOUTH OF THE SANDOVAL CO./								
ACCEPTANCE BY	BHI	DATE 2/97	BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT.								
VERIFICATION BY	BHI	DATE 2/97	SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF								
DRAWINGS BY	BHI	DATE 2/97	STATE ROAD 528 AND 33.5 FT. EAST OF THE EAST								
REVISIONS			RIGHT-OF-WAY FENCE OF BLACKS CHANNEL								
NO.			ELEVATION = 5198.732								

CONSTRUCTION NOTES

SANITARY SEWER

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. (NMUI) SPECIFICATIONS AND STANDARD DRAWINGS FOR WATER AND WASTEWATER FACILITIES.
- SEWER MAIN LINE PIPE MATERIAL SHALL BE PVC UNLESS OTHERWISE SPECIFIED BY ENGINEER AND NMUI.
- ALL MANHOLES SHALL BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE BARRELS, COVERS AND/OR CONES. MANHOLE BASES SHALL BE CAST IN PLACE REINFORCED CONCRETE.
- ALL MANHOLES, REGARDLESS OF DEPTH, SHALL BE EQUIPPED WITH STEPS.
- CONTRACTOR SHALL FURNISH AND INSTALL MANHOLE RINGS AND COVERS IN ACCORDANCE WITH SECTION 161 (AS MODIFIED) AND COA STD DWG 2110 EXCEPT THAT THE LETTERING ON THE COVER SHALL BE MODIFIED TO ELIMINATE REFERENCE TO THE CITY OF ALBUQUERQUE.
- DROP MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH COA STD DWG 2117 UNLESS OTHERWISE APPROVED BY ENGINEER AND NMUI.
- CONTRACTOR SHALL INSTALL ELECTRONIC MARKING DEVICES (EMD'S) AT THE ENDS OF ALL SEWER SERVICE STUBS AND DEAD END LATERALS IN ACCORDANCE WITH COA STD DWG 2145.
- NEW SANITARY SEWER LINES SHALL BE TESTED AND APPROVED PRIOR TO THE REMOVAL OF EXISTING SANITARY SEWER LINES.
- ALL BACKFILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR (ASTM D-1557) WITH MOISTURE OPTIMUM PLUS OR MINUS TWO PERCENT.
- CONTRACTOR SHALL FURNISH AND INSTALL SANITARY SEWER SERVICE LINES IN ACCORDANCE WITH COA STD DWG 2125 EXCEPT THAT SERVICE LINE PIPING SHALL BE PVC. RESIDENTIAL SERVICE LATERALS SHALL BE 4-INCH DIAMETER SDR 26. COMMERCIAL LATERALS SHALL BE 6-INCH DIAMETER SDR 35 AND SHALL MEET THE SAME REQUIREMENTS AS SEWER MAIN LINE PIPE MATERIAL.
- SEWER SERVICE CONNECTIONS TO THE MAIN LINE MAY BE MADE WITH EITHER SADDLE TEES OR IN LINE TEES OR WYES. SADDLE TEES SHALL HAVE PROTRUSIONS TO INSURE PROPER ALIGNMENT AND PREVENT ROTATION. ALL FITTINGS SHALL BE INJECTION MOLDED, COMPATIBLE WITH MAIN LINE AND SERVICE LINE PIPING AND SUBJECT TO NMUI APPROVAL.
- THE DEPTH OF ANY SERVICE LATERAL AT ITS TERMINUS SHALL NOT BE MORE THAN 10 FEET. WHERE REQUIRED, RISERS SHALL BE USED.
- SEWER ENCASEMENT SHALL BE IN ACCORDANCE WITH COA STD DWG 2140.

WATER

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. (NMUI) SPECIFICATIONS AND STANDARD DRAWINGS FOR WATER AND WASTEWATER FACILITIES.
- CONTRACTOR SHALL INSTALL ELECTRONIC MARKING DEVICES (EMD'S) ON ALL CROSSES, TEES, BENDS AND CAPS.
- HORIZONTAL THRUST RESTRAINT SHALL BE ACCOMPLISHED BY CONCRETE BLOCKING ONLY. VERTICAL THRUST RESTRAINT SHALL BE ACCOMPLISHED BY CONCRETE BLOCKING AND MECHANICAL RESTRAINING SYSTEMS COMBINED. CONCRETE BLOCKING SHALL BE IN ACCORDANCE WITH COA STD DWGS 2320, 2333 AND 2340.
- ALL VALVES 12" AND LESS SHALL BE ANCHORED IN ACCORDANCE WITH COA STD DWG 2333.
- ALL HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH COA STD DWG 2340.
- VALVE BOXES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH COA STD DWGS 2325 AND 2326 EXCEPT THAT VALVE CANS SHALL BE 5-1/4" CAST IRON SLIP TYPE SUCH AS TYLER SERIES 6855, OR APPROVED EQUAL. CITY OF ALBUQUERQUE STANDARD VALVE CANS SHALL NOT BE USED UNLESS THEY ARE EQUIPPED WITH LOCKING LIDS.
- ALL PIPE ZONE AND TRENCH BACKFILL SHALL BE COMPACTED TO 95% ASTM D-1557 WITH MOISTURE OPTIMUM PLUS OR MINUS TWO PERCENT.
- CONTRACTOR SHALL FURNISH AND INSTALL AIR/VACUUM RELEASE VALVES IN ACCORDANCE WITH NMUI STD DWG EXHIBIT "E."
- CONTRACTOR SHALL FURNISH AND INSTALL WATER SERVICES IN ACCORDANCE WITH NMUI STD DWGS EXHIBITS "A" AND "A-1."
- WATER MAIN LINE PIPE MATERIAL SHALL BE PVC UNLESS OTHERWISE SPECIFIED BY ENGINEER AND NMUI.
- ALL WATER MAINS SHALL HAVE AT LEAST 4' OF COVER FROM TOP OF PIPE TO FINISH GRADE.
- DEAD END MAIN LINES, LATERALS AND STUBS SHALL BE EQUIPPED WITH A THREADED CAP, CORP STOP AND FLUSH LINE AS APPROVED BY NMUI AND ENGINEER.
- THE DISTANCE FROM THE TOP OF THE VALVE NUT TO THE TOP OF THE VALVE CAN AT FINISH GRADE SHALL BE MORE THAN 18" AND LESS THAN 36". CONTRACTOR SHALL FURNISH AND INSTALL VALVE STEM EXTENSIONS AS NECESSARY.
- ALL NEW WATER LINES SHALL BE HYDROSTATIC TESTED AT 200 PSI FOR NOT LESS THAN TWO HOURS.
- CONTRACTOR SHALL FURNISH AND INSTALL DUAL CHECK VALVE ASSEMBLIES OR DOUBLE CHECK VALVES, AS APPROVED BY NMUI, WITH ALL WATER SERVICES.
- WATER SERVICE LINES SHALL HAVE A MINIMUM OF THREE FEET OF COVER.

GENERAL

- SURVEY BASE LINE IS LABELED AS CONSTRUCTION $\hat{C}$ AND IS NOT ALONG CENTERLINE OF RIGHT-OF-WAY.
- CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FENCE AS REQUIRED FOR CONSTRUCTION OF UTILITY LINES AND SHALL BE INCIDENTAL TO CONSTRUCTION.
- ALL PAVEMENT CUTS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STD DWG 2465. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL TRAFFIC SIGNS WITHIN THE CONSTRUCTION AREA.
- CONTRACTOR SHALL USE CAUTION WHEN TRENCHING, ADJACENT TO EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND PROVIDE ACCEPTABLE MEANS OF SUPPORTING UTILITIES WHEN THEY BECOME EXPOSED WITHIN THE TRENCH PRISM.

STORM DRAIN

- ALL TYPE "A" STORM DRAIN INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWGS. 2201 AND 2202.
- TYPE "C" STORM DRAIN INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWGS. 2203 AND 2205.
- STORM DRAIN GRATES SHALL BE MANUFACTURED IN ACCORDANCE WITH C.O.A. STD. DWG. 2220.
- CHANNEL EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWG. 2265.
- TYPE "D" STORM DRAIN INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWG. 2265.
- CONSTRUCT STORM DRAIN MANHOLES PER COA DWGS 2101 & 2102.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III EXCEPT AS OTHERWISE NOTED.
- ALL RCP SHALL BE INSTALLED WITH CLASS "B" BEDDING.

STREETS

- PERMANENT STANDARD CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWG. 2415.
- ASPHALT CURB SHALL BE IN ACCORDANCE WITH C.O.A. STD. DWG. 2415.
- CONCRETE MEDIAN PAVING SHALL BE CONSTRUCTED ON THE RAISED MEDIANS OF THE CIBOLA HIGH SCHOOL CENTER ENTRANCE. CONCRETE MEDIAN PAVING SHALL BE THE COLOR AND PATTERN SHOWN ON THE SAD 223 PART 3B PLANS. ALL OTHER CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH THE COA STD DWG 2408.
- ALL CURB RETURNS SHALL BE CONSTRUCTED TO INCLUDE WHEELCHAIR RAMPS IN ACCORDANCE WITH C.O.A. STD. DWGS. 2440 AND 2441 AS REVISED BY THE PLANS.
- CONCRETE VALLEY GUTTERS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH C.O.A. STD. DWG. 2420.
- 6' SIDEWALKS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH C.O.A. STD. DWGS. 2430 AND 2431.

LEGEND

DESCRIPTION	NEW	EXISTING
CONTOURS	5094	5094
SPOT ELEVATIONS	5088	5088
DRAINAGE AREA BOUNDARY		
DRAINAGE DIVIDE		
DIRECTION OF FLOW		
SWALE		
PROPERTY LINE		
FENCE		
CATCH BASIN		
STORM DRAIN M.H. & LINE		
SANITARY SEWER M.H. & LINE		
FIRE HYDRANT & WATER LINE	6" W	6" W
REDUCERS		
WATER VALVES	GATE	GATE
AIR & VACUUM RELEASE VALVE	A	
GAS LINE	G	G
UNDERGROUND TELEPHONE	UT	UT
CABLE TELEVISION	CT	CT
POWER/TELEPHONE POLE	P.P.	P.P.
UNDERGROUND ELECTRICAL	UE	UE
CURB ELEVATION	TC 5088.28 FL 5087.78	TC 5088.28 FL 5087.78
HYDROLOGICAL ANALYSIS PT.		
DETAIL REFERENCE		
KEYED NOTES		
C.O.A. DETAIL REFERENCE	STD. DWG. 2101	
CURVE NUMBER	2	
PHASE BOUNDARY		
POINT NUMBER	1	



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

SCANNED BY LASON

TITLE: ELLISON DRIVE CONSTRUCTION NOTES & LEGEND					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		96	WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		
PROJECT NO. 3727.90		MAP NO. A-13		SHEET 4 OF 72	

SEVEN-BAR RANCH

CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

MARCH, 1993

PARCEL 5

LEGAL DESCRIPTION

Those certain parcels of land situate within the Town of Alameda Grant in projected Section 6, Township 11 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, being and comprising Tract B-11 and Tract B-12, SEVEN-BAR RANCH, as the same are shown and designated on the plat entitled "Tracts B-9 thru B-12, Seven-Bar Ranch, (being a replat of Tract B-8, Seven-Bar Ranch), City of Albuquerque, Bernalillo County, New Mexico", filed in the office of the County Clerk of Bernalillo County, New Mexico, on November 8, 1985, in Volume C28, folio 161.

SURVEYORS CERTIFICATION

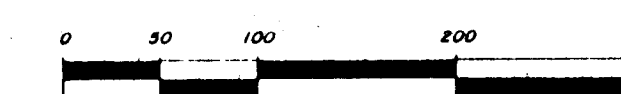
I, Garry P. Hugg, New Mexico Professional Surveyor Number 5823, hereby certify to RESOLUTION TRUST CORPORATION, as Receiver for ABQ FEDERAL SAVINGS BANK, the CITY OF ALBUQUERQUE, a New Mexico Municipal corporation, BROWN/NE (INVESTMENT) JOINT VENTURE, a New Mexico general partnership, and RIO GRANDE TITLE COMPANY, that this plat of survey was prepared from field notes of an actual ground survey performed by me or under my supervision; that it meets the standards for Land Surveys in New Mexico as adopted by the New Mexico State Board of Registration for Professional Engineers and Professional Surveyors; that it meets the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys" jointly established and adopted by ALTA and ACSM in 1988, and meets the accuracy requirements of a Class A Survey, as defined therein; that the information, courses and distances shown hereon are correct; that the location of the improvements are as shown and all are within the boundary lines of the property, except as shown hereon; that there are no encroachments, overlaps or other uses affecting the property, except as shown hereon; that recorded easements for utility service present at the time of this survey are as shown hereon, based on our examination of copies of the documents creating said easements, referred to in the Rio Grande Title Company Company Commitment for Title Insurance No's. CC 32 0022 10 01010, dated August 19, 1992 and CC 32 0022 10 011417, dated December 14, 1992, and an inspection of the property; and that it is true and correct to the best of my knowledge and belief.

IN WITNESS WHEREOF, this certificate is executed at Albuquerque, New Mexico, on this 26th day of March, 1993.

Garry P. Hugg
NMPS No. 5823

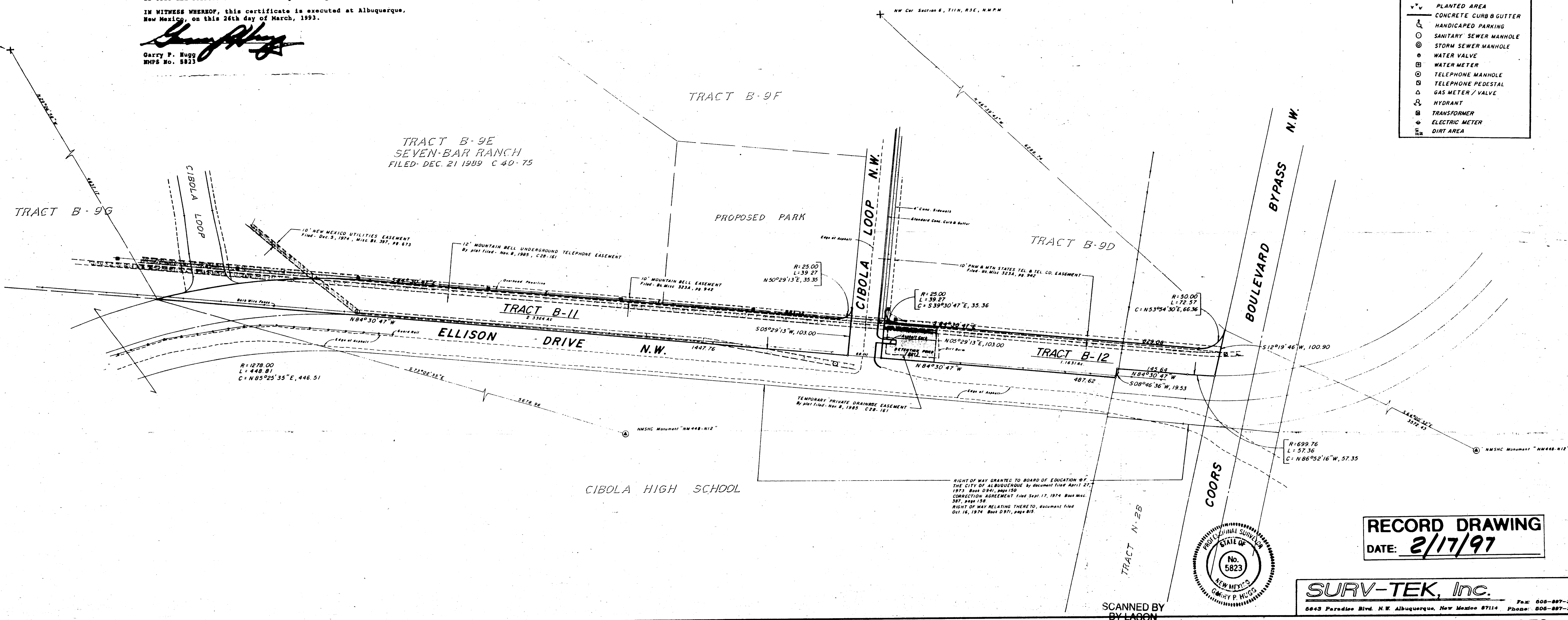
GENERAL NOTES

1. Bearings are grid and based on the New Mexico State Plane Coordinate System, Central Zone, and rotated to grid at the New Mexico State Highway Commission Monument "NM-448-N12".
2. Distances are ground.
3. Distances along curved lines are arc lengths.
4. Delta Alpha = $-00^{\circ} 13' 46''$
5. Combined ground to grid factor = 0.99967595
6. All corners are a 5/8" rebar and survey cap stamped "HUGG LS 5823" unless otherwise indicated.
7. Information shown in parenthesis () is record.



Scale 1" = 100'

LEGEND	
●	POWER POLE
○	OVERHEAD LIGHT
+	SEWER CLEANOUT
■	CONCRETE AREA
▼	PLANTED AREA
—	CONCRETE CURB & GUTTER
⌂	HANDICAPPED PARKING
⊙	SANITARY SEWER MANHOLE
⊙	STORM SEWER MANHOLE
⊙	WATER VALVE
⊙	WATER METER
⊙	TELEPHONE MANHOLE
⊙	TELEPHONE PEDESTAL
⊙	GAS METER / VALVE
⊙	HYDRANT
⊙	TRANSFORMER
⊙	ELECTRIC METER
⊙	DIRT AREA



RECORD DRAWING
DATE: 2/17/97

SURV-TEK, Inc.

5643 Paradise Blvd. N.W. Albuquerque, New Mexico 87114 Phone: 505-887-3397 Fax: 505-887-3397

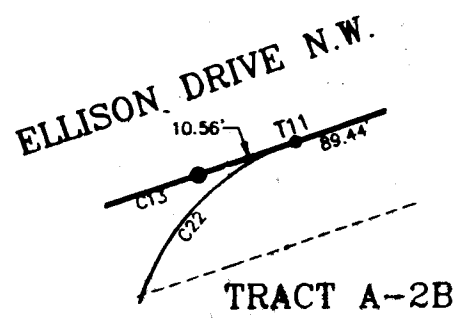
SCANNED BY
BY LACON

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are ten (10) feet wide and are for the common use of the public.

- The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
- The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
- U.S. West for the installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
- Jones Interconnect for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide cable TV service.

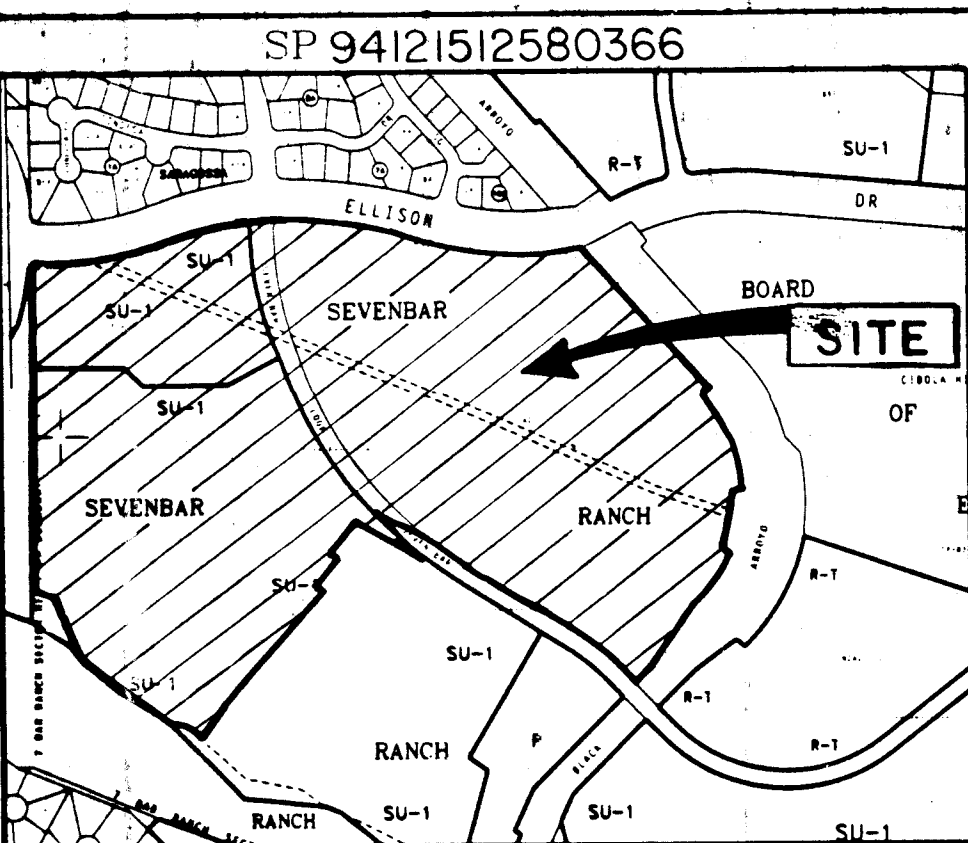
Included is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or subsurface), hot tub, concrete or wood pool deck, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electric Safety Code caused by construction of pools, decks, or any structures adjacent to or near easements shown on this plat.

DETAIL "A"
N.T.S.

LEGEND	
—	SUBDIVISION BOUNDARY LINE
—	NEW LOT LINE
—	ADJOINING PROPERTY LINE
—	MONUMENT TIE LINE
—	EXISTING EASEMENT LINE
—	NEW EASEMENT LINE
▲	CENTERLINE MONUMENT TO BE INSTALLED
○	FOUND 5/8" CAPPED REBAR "LS 7719"
○	FOUND 5/8" CAPPED REBAR "LS 9750"
○	FOUND 5/8" CAPPED REBAR
○	FOUND 5/8" CAPPED REBAR "LS 5823"
○	CITY OF ALBUQUERQUE SURVEY CONTROL MONUMENT
○	SET 5/8" CAPPED REBAR STAMPED "LS 5978"

CURVE	RADIUS	ARC	TANGENT	CHORD	CHORD BEARING	DELTA
C1	588.78'	409.33'	213.33'	401.14'	S21°46'40"E	39°49'59"
C2	588.78'	409.33'	119.74'	234.25'	S10°05'45"W	23°58'50"
C3	588.78'	238.38'	120.84'	236.75'	S33°41'05"W	23°11'50"
C4	588.78'	238.38'	97.54'	193.91'	S53°41'05"W	12°35'36"
C5	588.78'	193.91'	19.39'	36.16'	N71°56'05"E	42°24'09"
C6	588.78'	193.91'	242.44'	476.38'	N82°23'35"E	21°28'58"
C7	588.78'	242.44'	206.45'	406.08'	N82°04'39"E	20°51'06"
C8	588.78'	206.45'	260.17'	516.51'	S80°32'29"E	13°54'38"
C9	588.78'	260.17'	145.34'	288.81'	S80°04'29"E	12°58'33"
C10	588.78'	145.34'	322.09'	587°28'24"E	N87°28'24"E	11°58'07"
C11	588.78'	322.09'	188.04'	372.07'	N84°45'52"E	16°44'25"
C12	588.78'	188.04'	30.00'	59.98'	N75°03'00"E	02°41'21"
C13	588.78'	30.00'	22.91'	45.80'	N72°40'43"E	02°03'13"
C14	588.78'	45.80'	86.11'	172.08'	S87°10'04"E	04°37'23"
C15	588.78'	172.08'	173.21'	345.28'	S78°10'46"E	09°17'10"
C16	588.78'	345.28'	233.15'	461.20'	S48°49'09"E	16°57'27"
C17	588.78'	461.20'	273.88'	504.79'	N34°26'57"W	45°41'50"
C18	588.78'	504.79'	341.45'	542°30'35"E	N28°54'23"E	10°00'00"
C19	588.78'	542°30'35"E	100.94'	199.72'	S19°59'43"E	16°47'22"
C20	588.78'	199.72'	531.19'	934°26'57"W	N45°41'50"W	92°00'18"
C21	588.78'	934°26'57"W	25.89'	35.97'	S57°36'11"E	83°15'08"
C22	588.78'	35.97'	22.22'	33.21'	S30°01'32"W	45°41'50"
C23	588.78'	33.21'	259.56'	478.38'	S34°28'57"E	45°41'50"
C24	588.78'	478.38'	68.13'	136.13'	S42°50'05"E	04°59'19"
C25	588.78'	136.13'	163.95'	326.12'	S51°18'48"E	11°58'07"

TANGENT	BEARING	DISTANCE
T1	S48°16'20"W	(38.00')
T2	S88°06'21"W	(25.00')
T3	S67°54'50"E	(25.00')
T4	N44°42'16"W	99.85'
T5	N44°43'00"W	(100.00')
T6	S52°42'13"W	(110.00')
T7	S57°17'47"E	(28.14')
T8	S29°53'12"W	(50.00')
T9	N41°11'54"W	(67.35')
T10	N65°32'09"W	(86.00')
T11	N71°39'06"E	100.00'
T12	S45°17'00"W	90.68'
T13	N44°09'16"W	28.26'

LOCATION MAP
ZONE ATLAS INDEX MAP No. A-13-Z & B-13-Z
NOT TO SCALE

- SUBDIVISION DATA
- DRB No. 94-210
 - Gross subdivision acreage: 88,944.1 acres
 - Total number of tracts created: 4 tracts
 - Public street right-of-way dedicated with this plat: 2,360.0 acres
 - Date of survey: November 1994
 - This plat shows existing easements.

NOTES

- Boundaries are New Mexico State Plane Grid Bearings (Central Zone).
- Distances are ground distances.
- Record bearings and distances are shown in parenthesis.
- Centerline (in lieu of R/W) monumentation to be installed at selected centerline PC's, PT's, angle points and street intersections prior to acceptance of subdivision street improvements and will consist of a four-inch (4") aluminum alloy cap stamped "City of Albuquerque, Centerline Monument, Do Not Disturb, P.L.S. No. 5978".
- This subdivision is within the New Mexico Utilities, Inc. (NMU, Inc.) franchise area. Water and sanitary sewer system capabilities are based on NMU, Inc.'s facilities for the City of Albuquerque. Water and sanitary sewer infrastructure improvements must, however, be approved by both the City of Albuquerque and NMU, Inc.

DISCLOSURE STATEMENT

The purpose of this plat is to dedicate right-of-way, vacate right-of-way, grant easements, vacate easements, and combine tracts of land and resubdivide.

NOTICE OF SUBDIVISION PLAT CONDITIONS

The Plat of Tracts A-1A, A-2A, A-2B and A-3A, SEVENBAR RANCH has been granted a variance or waiver from certain subdivision requirements pursuant to Section 7 of the City of Albuquerque Subdivision Ordinance.

Future subdivision of lands within this plat, zoning Site Development Plan approvals, and development permits may be conditioned upon dedication of right-of-way, easements, and/or utility infrastructure improvements by the owner for water, sanitary sewer, streets, drainage, grading and parks in accordance with current resolutions, ordinances and policies in effect at the time for any specific purpose.

The City of Albuquerque (with reference to drainage) may require and/or permit easements to be added, modified, or removed when future plats and/or Site Development Plans are approved.

By its approval of this subdivision the City makes no representation or warranty as to availability of utilities, or final approval of all requirements including (but not limited to) the following items:

- Water and Sanitary Sewer Availability.
- Future Street Dedication and/or Improvements.
- Park and Open Space Requirements.
- Drainage Requirements and/or Improvements.
- Excavation, Filling or Grading Requirements.

Any person intending development of lands within this subdivision is cautioned to investigate the status of these items.

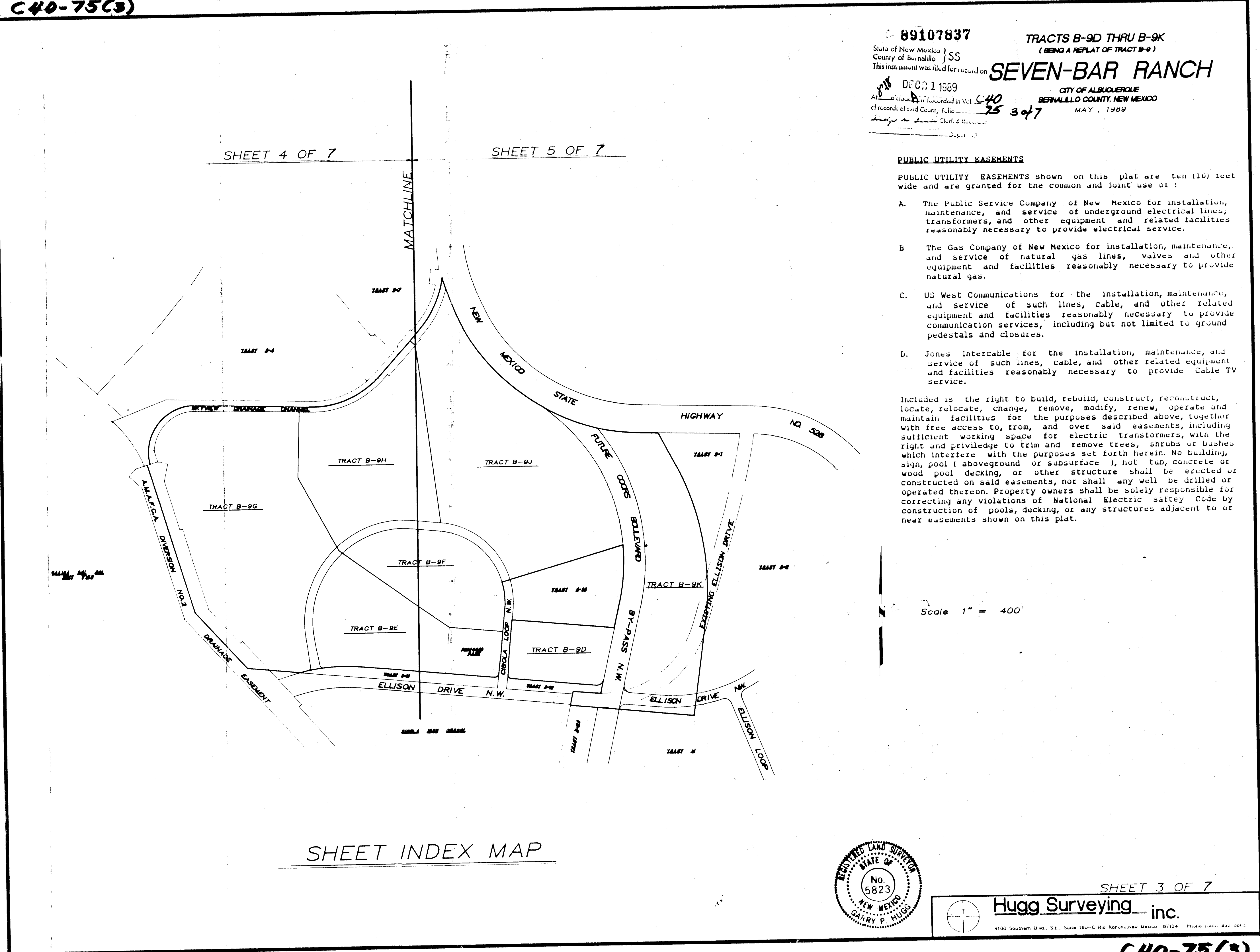
At such time as all such conditions have been satisfactorily met, the City Engineer (with the concurrence of AMAFCA with respect to drainage) shall approve a recordable document, removing such conditions from all or from a portion of the area within the subject subdivision.

DESCRIPTION

A certain tract of land situated within the Town of Alameda Grant, being a portion of projected Section 6 and Section 7, Township 11 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico. Said tract comprising Tract A-1, Tract A-2 and a northerly portion of Seven-Bar Loop Road N.W., SEVENBAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on October 17, 1989 in Volume C40, folio 21, together with Tract A, HUNTERS RUN SUBDIVISION UNIT 1, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on October 19, 1994 in Volume 94-C, folio 353. Said tract being more particularly described by New Mexico State Plane Grid bearings (Central Zone) and ground distances as follows:

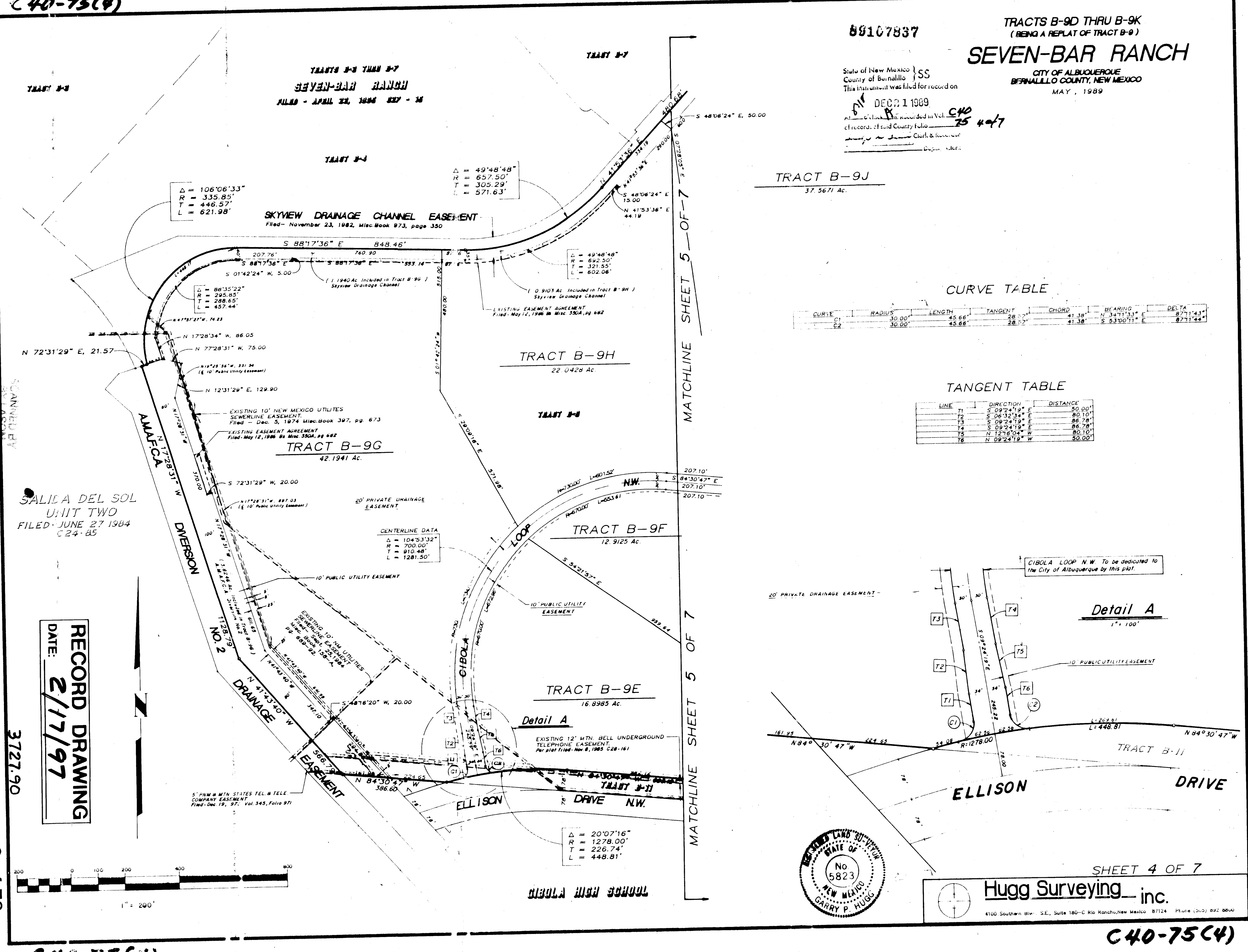
BEGINNING at a point on the southerly right-of-way line of Ellison Drive N.W., said point being the northeasterly corner of said Tract A-2, whence the City of Albuquerque Survey Monument "3-B13", having New Mexico State Plane Grid Coordinates for the Central Zone: X=375,789.23, Y=1,529,391.51, bears S21°29'10"E a distance of 1004.23 feet to a point; thence running along the southerly boundary line of the tract herein described and the westerly right-of-way line of the AMAFCA Flood Diversion Channel No. 2, S41°43'40"E a distance of 727.59 feet to a point; thence, S46°16'20"W a distance of 38.00 feet to a point; thence, S23°58'50"W a distance of 25.00 feet to a point; thence, S67°54'50"E a distance of 25.00 feet to a point; thence, S52°42'13"W a distance of 110.00 feet to a point; thence, S57°17'47"E a distance of 28.14 feet to a point; thence, S29°53'12"W a distance of 50.00 feet to a point; thence, N41°11'54"W a distance of 67.35 feet to a point; thence, N65°32'09"W a distance of 86.00 feet to a point; thence, N71°39'06"E a distance of 100.00 feet to a point; thence, S45°17'00"W a distance of 90.68 feet to a point; thence, N44°09'16"W a distance of 28.26 feet to a point; thence, S51°18'48"E a distance of 115.80 feet to a point; thence, S42°50'05"E a distance of 136.13 feet to a point; thence, S34°28'57"E a distance of 478.38 feet to a point; thence, S30°01'32"W a distance of 33.21 feet to a point; thence, S57°36'11"E a distance of 25.89 feet to a point; thence, N34°26'57"W a distance of 504.79 feet to a point; thence, S48°49'09"E a distance of 461.20 feet to a point; thence, S78°10'46"E a distance of 345.28 feet to a point; thence, S87°10'04"E a distance of 86.11 feet to a point; thence, N72°40'43"E a distance of 45.80 feet to a point; thence, N75°03'00"E a distance of 30.00 feet to a point; thence, N84°45'52"E a distance of 188.04 feet to a point; thence, N87°28'24"E a distance of 322.09 feet to a point; thence, S51°18'48"E a distance of 163.95 feet to a point; thence, S42°50'05"E a distance of 136.13 feet to a point; 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C40-75(3)

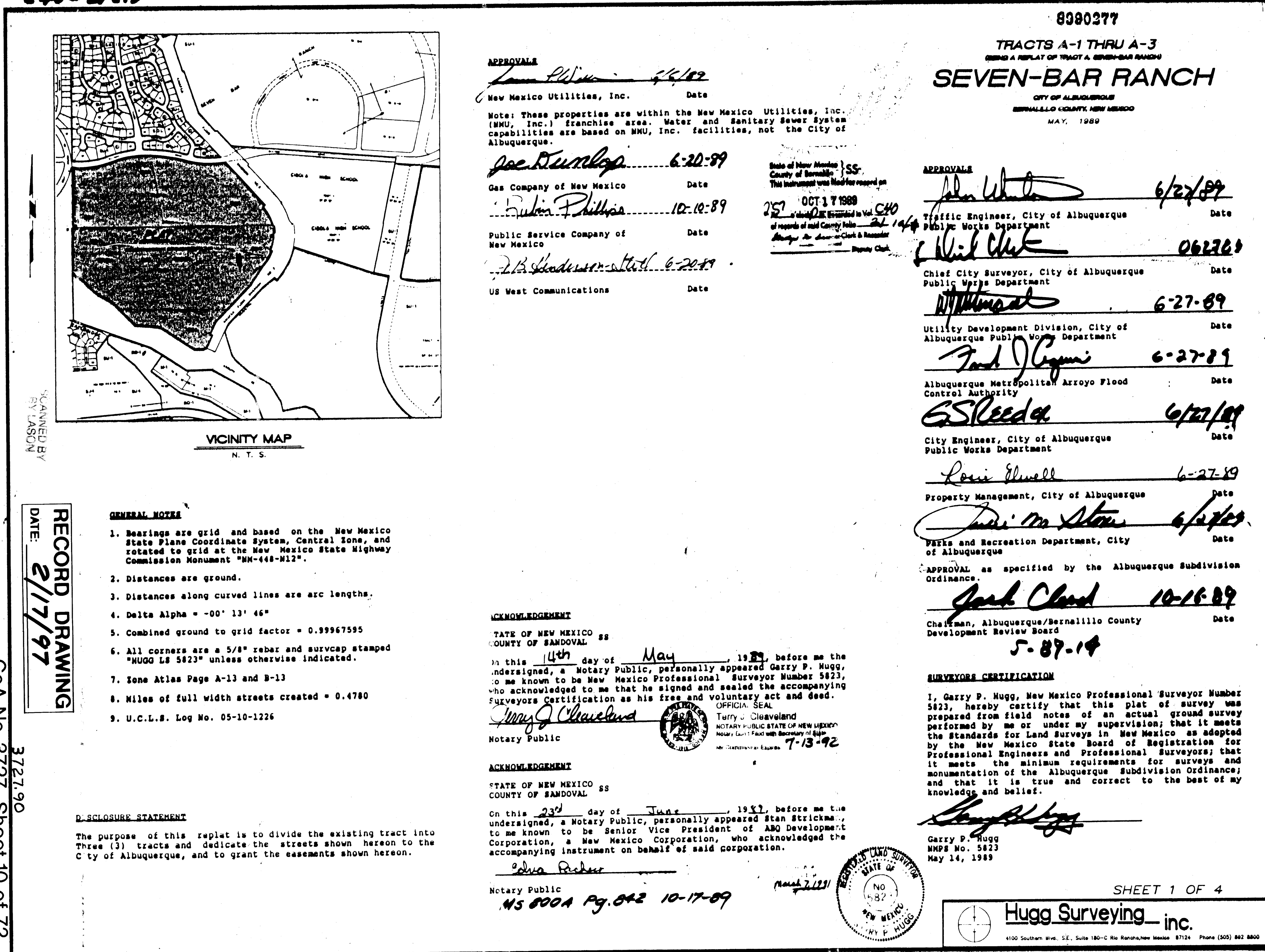
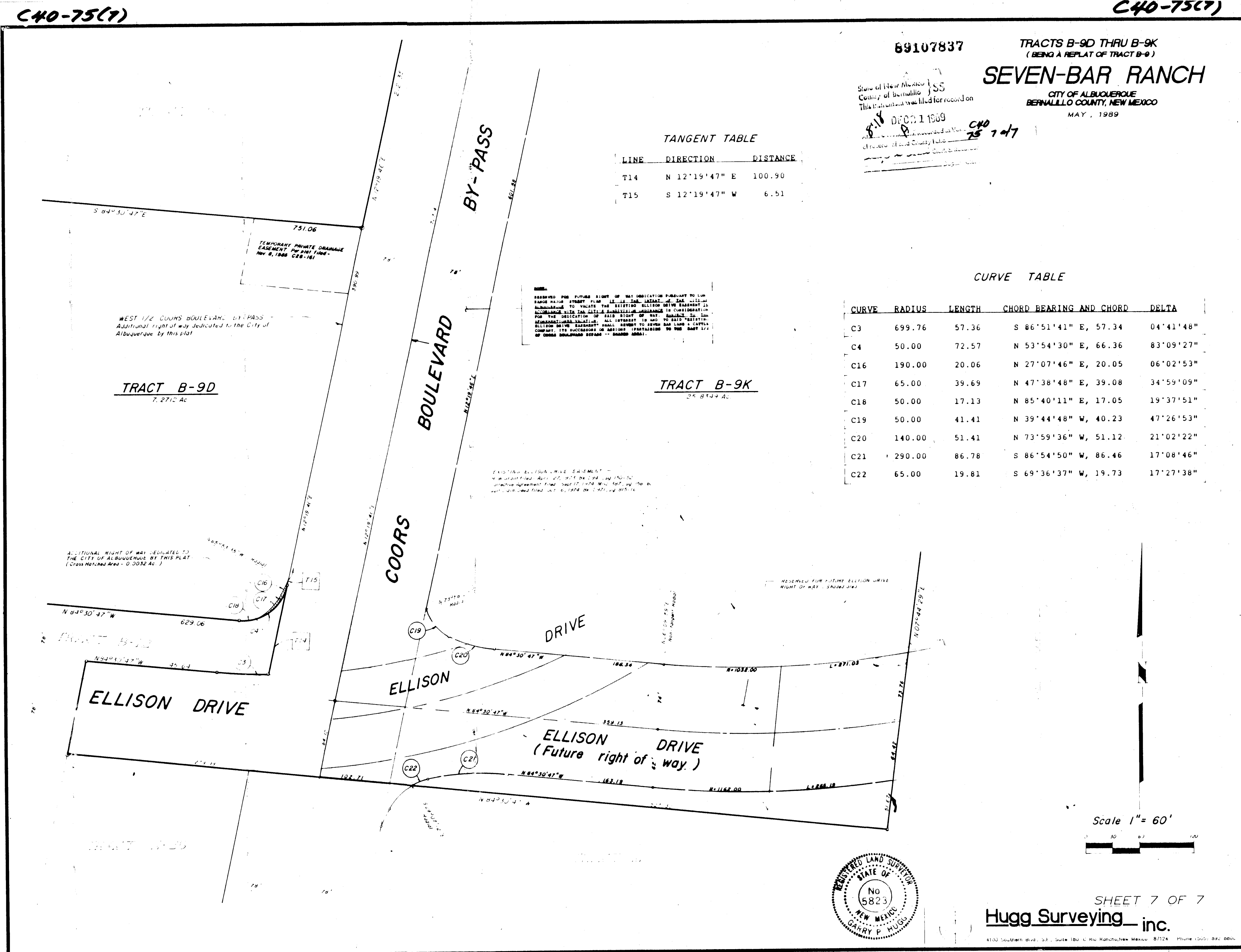


C40-75(3)

C40-75(4)







LEGAL DESCRIPTION

That certain parcel of land situate within the Town of Alameda Grant in projected sections 6 and 7, Township 11 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising Tract A, Seven-Bar Ranch, as the same is shown and designated on the plat entitled "SUMMARY PLAT, SEVEN-BAR RANCH (FOR AMATECA)", filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, in Volume C18, folio 96, more particularly described as follows:

BEGINNING at the Northwest corner of the parcel herein described, a point on the Western line of said projected section 6 and the Southwest corner of Tract B, Seven-Bar Ranch, as the same is shown and designated on the plat entitled "SUMMARY PLAT, SEVEN-BAR RANCH (FOR AMATECA)", filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, in Volume C18, folio 96; and point on the centerline of Ellison Drive N.W. easement, whence (1) the Northwest corner of said projected section 6 (an existing 1-1/2" iron pipe with 3" brass cap) bears S 00° 17' 07" E, 447.40 feet distant; and (2) New Mexico State Highway Commission Monument "NM-448-112" bears S 79° 22' 28" E, 7943.95 feet distant; Thence Easterly along the line common to said Tracts A and B and said centerline of Ellison Drive N.W. easement on the following four courses,

N 77° 15' 38" E, 443.43 feet to a point of curvature; Thence,

Southeasterly, 1222.73 feet on the arc of a curve to the right (said curve having a radius of 2166.70 feet and a chord which bears S 65° 53' 40" E, 1198.40 feet) to a point of curvature; Thence,

S 71° 02' 57" E, 73.92 feet to a point of curvature; Thence,

Southeasterly, 442.03 feet on the arc of a curve to the left (said curve having a radius of 746.22 feet and a chord which bears S 88° 01' 12" E, 435.60 feet) to a point on curve and the Northeast corner of the parcel herein described, a point on the Southwesterly right of way line of the Albuquerque Metropolitan Arroyo Flood Control Authority (A.M.A.F.C.A.) Flood Diversion No. 2 Drainage Easement as filed in the office of the County Clerk of Bernalillo County, New Mexico in Book Misc. 225, pages 924-927, on August 19, 1971; Thence Southwesterly along said Southwesterly right of way line of the A.M.A.F.C.A. Flood Diversion No. 2 Drainage Easement on the following twelve courses,

S 41° 43' 40" E, 727.59 feet to a point; Thence,

S 48° 16' 20" W, 38.00 feet to a point on curve; Thence,

Southeasterly, 409.33 feet on the arc of a curve to the right (said curve having a radius of 1561.70 feet and a chord which bears S 10° 05' 45" W, 234.25 feet) to a point on curve; Thence,

S 88° 06' 21" W, 25.00 feet to a point on curve; Thence,

Southeasterly, 235.96 feet on the arc of a curve to the right (said curve having a radius of 1561.70 feet and a chord which bears S 10° 05' 45" W, 234.25 feet) to a point on curve; Thence,

S 67° 54' 50" E, 25.00 feet to a point on curve; Thence,

Southeasterly, 238.38 feet on the arc of a curve to the right (said curve having a radius of 588.78 feet and a chord which bears S 31° 41' 05" W, 235.75 feet) to a point on curve; Thence,

S 13° 47' 19" W, 316.14 feet to a point; Thence,

S 45° 17' 00" W, 659.56 feet to a point; Thence,

S 25° 17' 00" W, 180.00 feet to a point; Thence,

S 64° 43' 00" E, 30.00 feet to a point; Thence,

S 25° 17' 00" W, 197.77 feet to the Southeast corner of the parcel herein described, a point on the Northeastly line of the Arroyo de Las Calabacillas, as the same is shown and designated on the plat entitled "SUMMARY PLAT, SEVEN-BAR RANCH (FOR AMATECA)", filed in the office of the County Clerk of Bernalillo County, on June 8, 1981, in Volume C18, folio 96; Thence Southwesterly and Northeastly along said Northeastly line of the Arroyo de Las Calabacillas on the following twelve courses,

S 63° 48' 10" W, 48.20 feet to a point; Thence,

S 83° 30' 29" W, 133.98 feet to a point; Thence,

N 56° 27' 12" W, 349.42 feet to a point; Thence,

N 50° 41' 03" W, 174.69 feet to a point; Thence,

N 68° 13' 49" W, 59.61 feet to a point; Thence,

N 84° 08' 50" W, 309.62 feet to a point; Thence,

N 43° 03' 41" W, 180.64 feet to a point; Thence,

N 44° 07' 43" W, 236.75 feet to a point; Thence,

N 58° 44' 00" W, 210.78 feet to a point; Thence,

N 50° 42' 53" W, 187.86 feet to a point; Thence,

N 36° 57' 47" W, 80.33 feet to a point; Thence,

N 56° 59' 31" W, 179.28 feet to the Southwest corner of the parcel herein described, a point on the Western line of said projected section 7; Thence,

N 00° 17' 07" E, 1452.03 feet along said Western line of projected sections 6 and 7 to the Northwest corner and point of beginning of the parcel herein described.

Said parcel contains 120.9424 acres, more or less.

SURVEYED AND REPLATED and now comprising TRACTS A-1 THRU A-3, (BEING A REPLAT OF TRACT A, SEVEN-BAR RANCH), SEVEN-BAR RANCH, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, with the free consent of and in accordance with the wishes and desires of the undersigned owner and proprietor thereof. Said owner and proprietor does hereby dedicate to the City of Albuquerque in fee simple the streets shown herein and does hereby grant to the use of the public forever all easements shown herein. Said owner and proprietor does hereby consent to all of the foregoing and does hereby represent that it is so authorized to act.

ABQ Development Corporation, a New Mexico Corporation

Stan Strickman
Stan Strickman, Senior Vice President

NOTE: A variance or waiver from certain subdivision requirements has been granted by the City of Albuquerque and the Albuquerque Metropolitan Arroyo Flood Control Authority in connection with this plat.

Future subdivision of lands within this plat, zoning site development plan approvals, and development permits may be conditioned upon dedication of rights of way and easements, and/or upon infrastructure improvements by the owner for water, sewer, streets, drainage, grading and policies in effect at the time for any specific proposal.

The City of Albuquerque and (AMAFCA with reference to drainage) may require and/or permit easements to be added, modified or removed when future plats or site development plans are approved. By its approval the City of Albuquerque makes no representation or warranties as to availability of utilities, or final approval of all requirements including (but not limited to) the following items: water and sanitary sewer availability; future street dedications and/or improvements; park and open space requirements; drainage requirements and/or improvements; and excavation, filling or grading requirements. Any person intending development of lands within this subdivision is cautioned to investigate the status of these items.

A SEPARATE NOTICE OF THESE CONDITIONS WAS RECORDED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON 1987, 18 VOLUME 1000, FOLIO 1000.

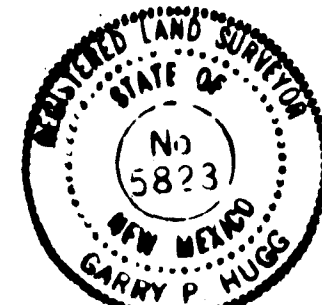
8090277
TRACTS A-1 THRU A-3
BEING A REPLAT OF TRACT A, SEVEN-BAR RANCH
SEVEN-BAR RANCH
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MAY, 1989

PUBLIC UTILITY EASEMENTS

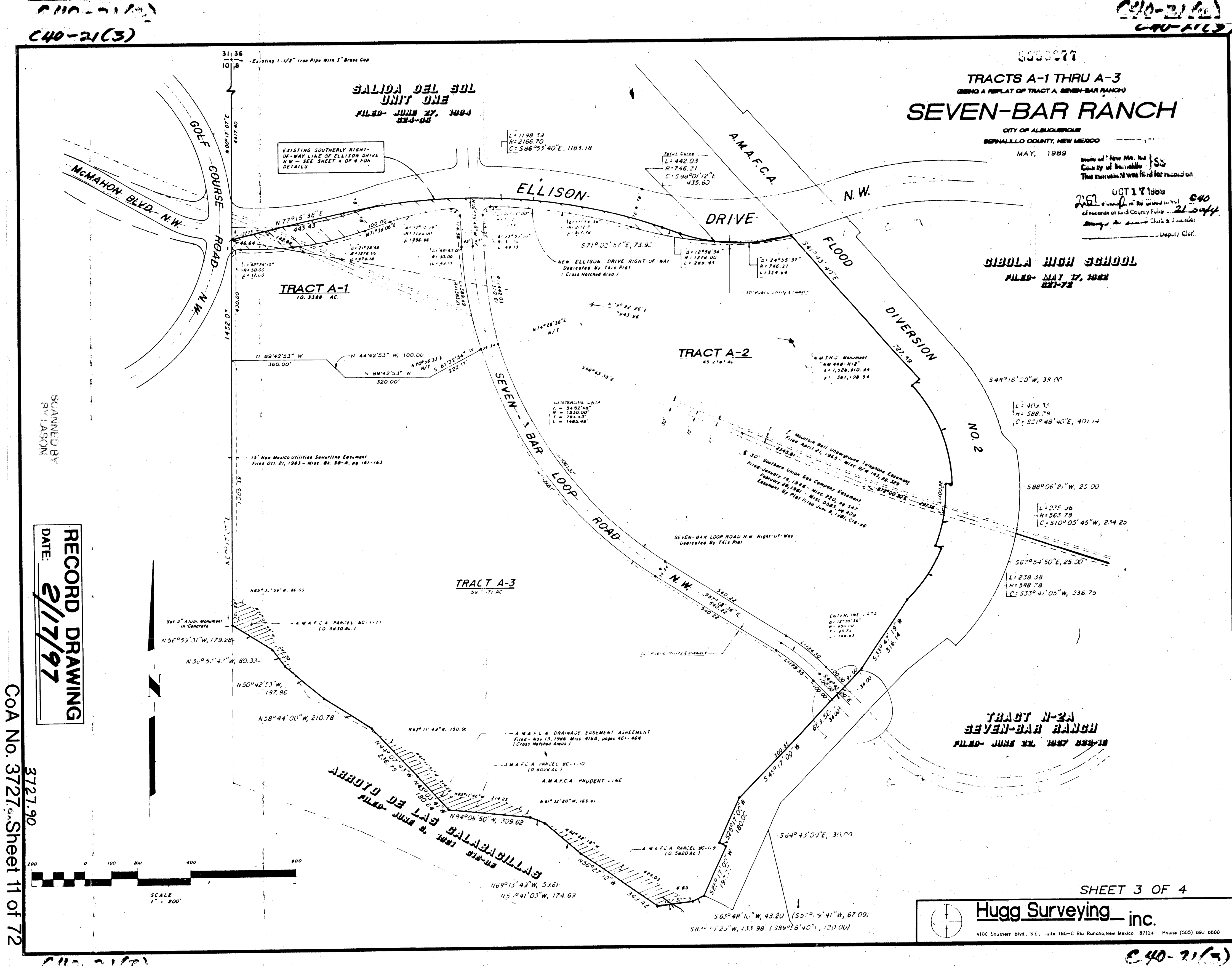
PUBLIC UTILITY EASEMENTS shown on this plat are ten (10) feet wide and are granted for the common and joint use of:

- A. The Public Service Company of New Mexico for installation, maintenance, and service of underground electrical lines, transformers, and other equipment and related facilities reasonably necessary to provide electrical service.
- B. The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
- C. US West Communications for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to ground pedestals and closures.
- D. Jones Interchange for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

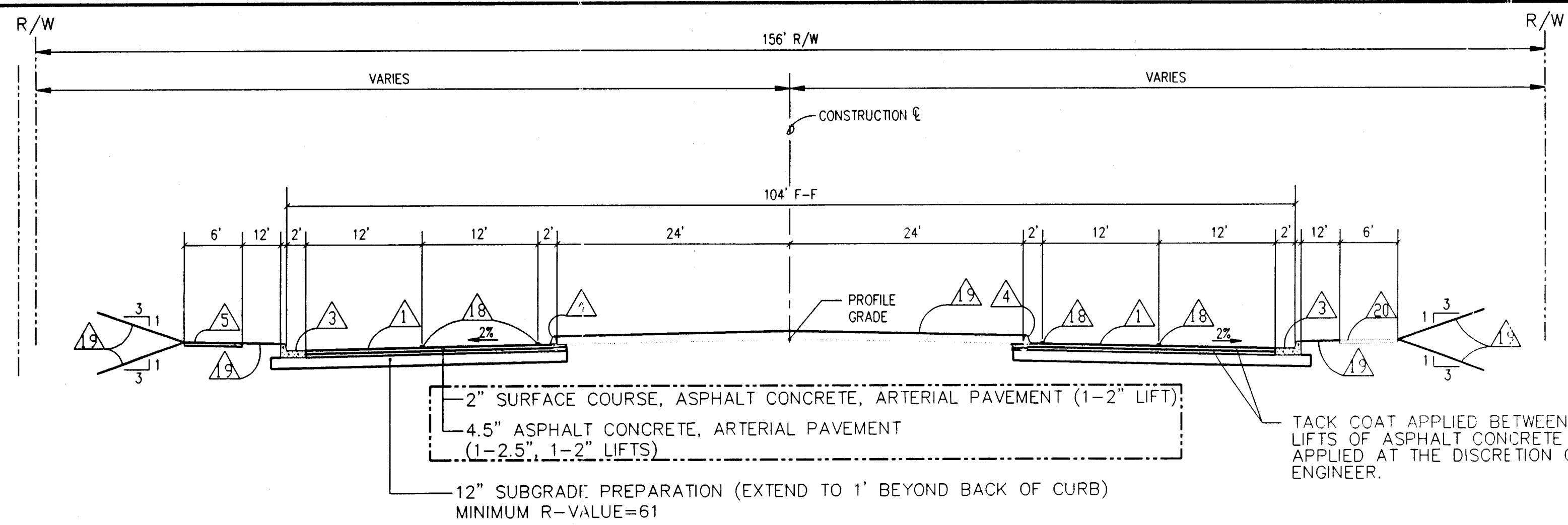
Included is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (aboveground or subsurface), hot tub, concrete or wood pool decking or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electric Safety Code by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.



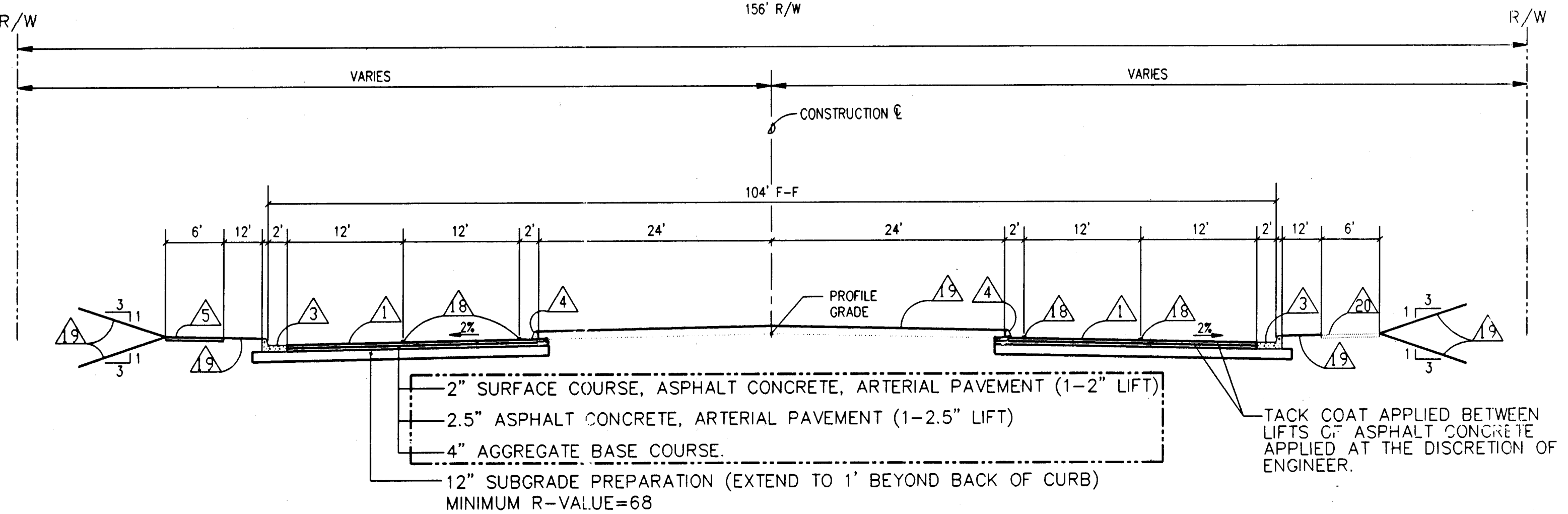
SHEET 2 OF 4
Hugg Surveying, Inc.
4100 Southern Blvd., S.E., Suite 180-C, Albuquerque, New Mexico 87124 Phone (505) 262-8800



SHEET 3 OF 4
Hugg Surveying, Inc.
4100 Southern Blvd., S.E., Suite 180-C, Albuquerque, New Mexico 87124 Phone (505) 262-8800



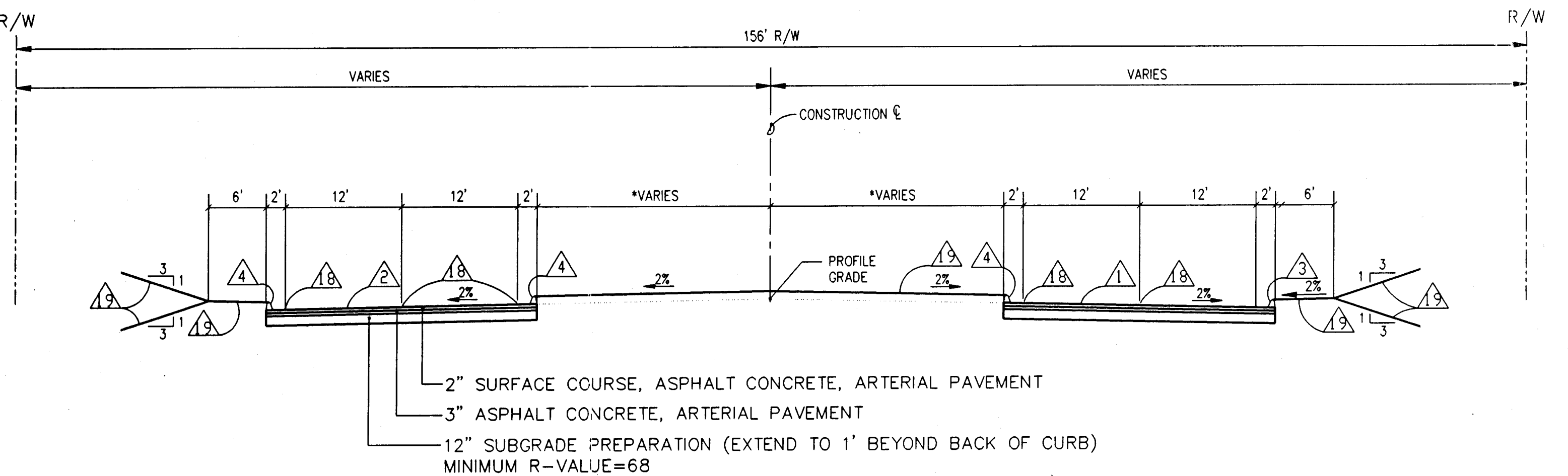
ELLISON DRIVE
INTERIM CONSTRUCTION
STA. 11+95.93 TO 34+55.56
156' R/W



ELLISON DRIVE
INTERIM CONSTRUCTION
STA. 35+75.60 TO 53+50.00

NOTE: FROM STA. 28+00.00 TO 31+00.00 LT AND 31+77.12 TO 40+00.00 RT, STANDARD CURB IS REPLACED WITH 2' PAVEMENT WITH 8" CONCRETE EXTRUDED CURB.

NOTE: REPLACE CONCRETE SIDEWALK WITH ASPHALT SIDEWALK FROM:
STA 32+66.54, 64.63' RT TO STA 34+55.56, 26.76' RT
STA 35+75.60, 26.19' RT TO STA 37+28.40, 64.62' RT
STA 33+00.00, 64.62' LT TO STA 34+00.00, 32.42' LT
STA 36+00.00, 31.00' LT TO STA 37+02.41, 64.63' LT
SEE ASPHALT SIDEWALK DETAIL THIS SHEET.

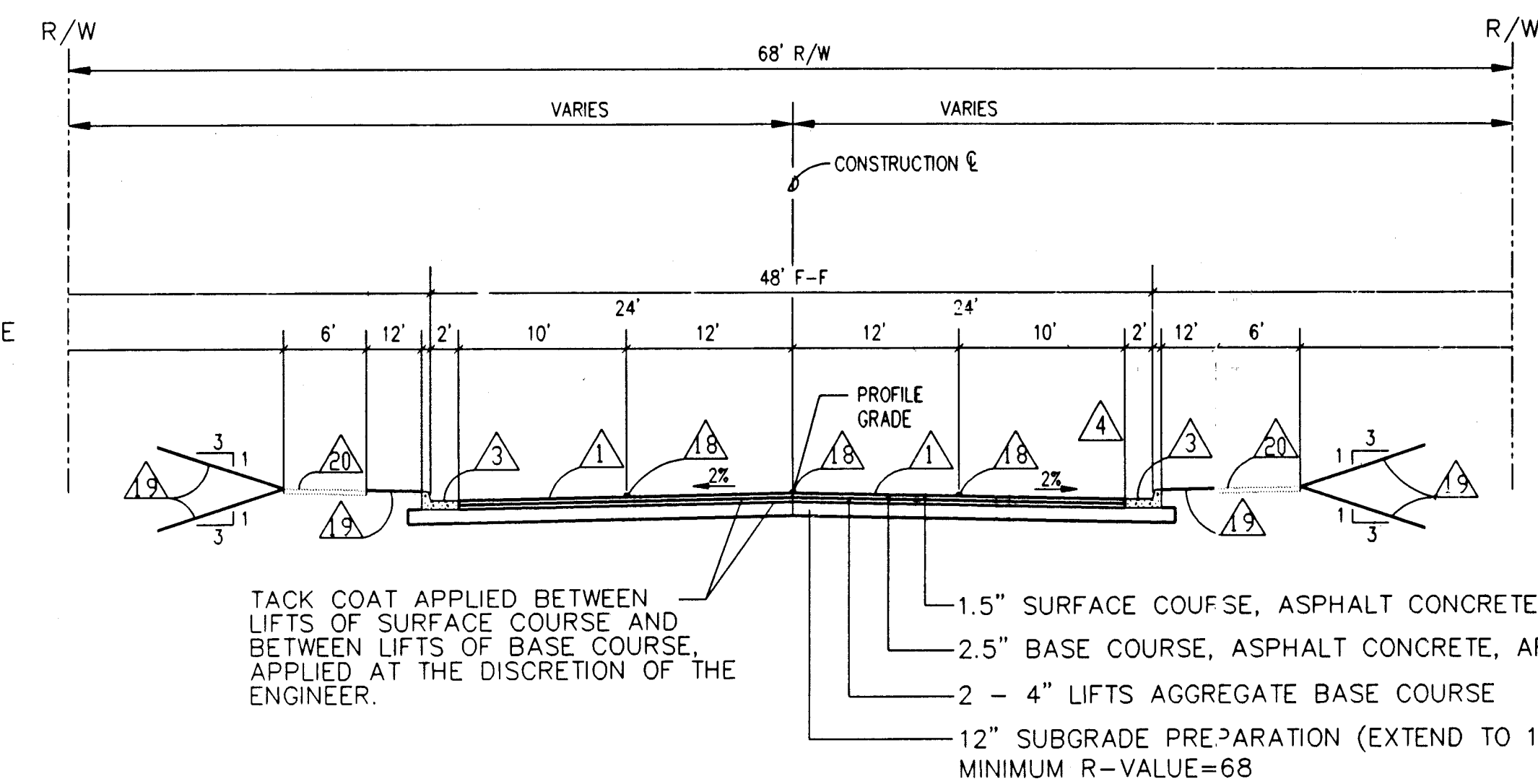


TEMPORARY CONNECTION

*STA. 53+50.00 TO E.O.P.

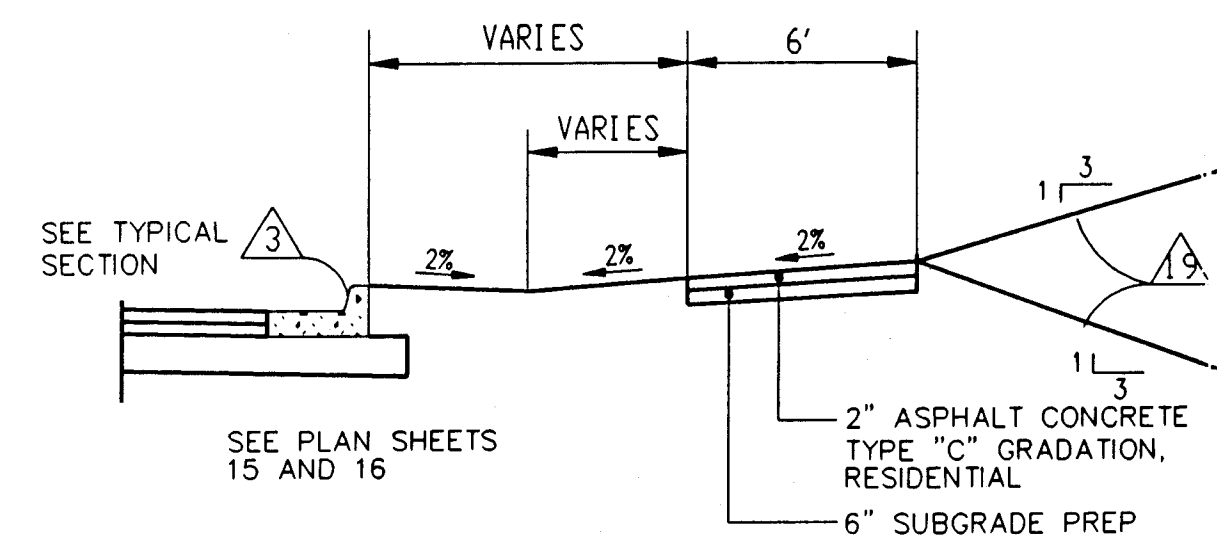
* STATIONS ARE ALONG ELLISON DRIVE CONSTRUCTION C

NOTE: ALL ASPHALT CONCRETE PAVEMENT SHALL BE ARTERIAL PAVING AND TYPE A GRADATION. IF LIFT THICKNESS IS 1 1/2", USE TYPE B GRADATION.



CIBOLA LOOP (EAST)
AT STATION 2+50
STA. 2+04 TO 2+72 LT
STA. 2+04 TO 4+02.38 RT

NOTE: FROM STA. 2+72 TO 6+00 LT STANDARD CURB IS REPLACED WITH ASPHALT EXTRUDED CURB



PLACE ASPHALT SIDEWALK:

FROM: STA 32+66.54, 64.63' RT TO: STA 34+55.56, 26.76' RT
FROM: STA 35+75.60, 26.19' RT TO: STA 37+28.40, 64.62' RT
FROM: STA 33+00.00, 64.62' LT TO: STA 34+00.00, 32.42' LT
FROM: STA 36+00.00, 31.00' LT TO: STA 37+02.41, 64.63' LT

ASPHALT SIDEWALK DETAIL



KEYED BUILD NOTES

- BUILD ARTERIAL PAVEMENT, SEE SHEET XX.
- BUILD TEMPORARY PAVEMENT, SEE SHEET XX.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430. SEE STA. LIMITS FOR LOCATIONS.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0' TO 8' 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD LANE STRIPE
- PLACE REVEGETATION SEEDING WITHIN MEDIAN AREAS, BETWEEN CURBS AND SIDEWALK AND ALONG THE SLOPES BETWEEN BACK OF SIDEWALK TO SLOPE LIMITS.
- FUTURE SIDEWALK.

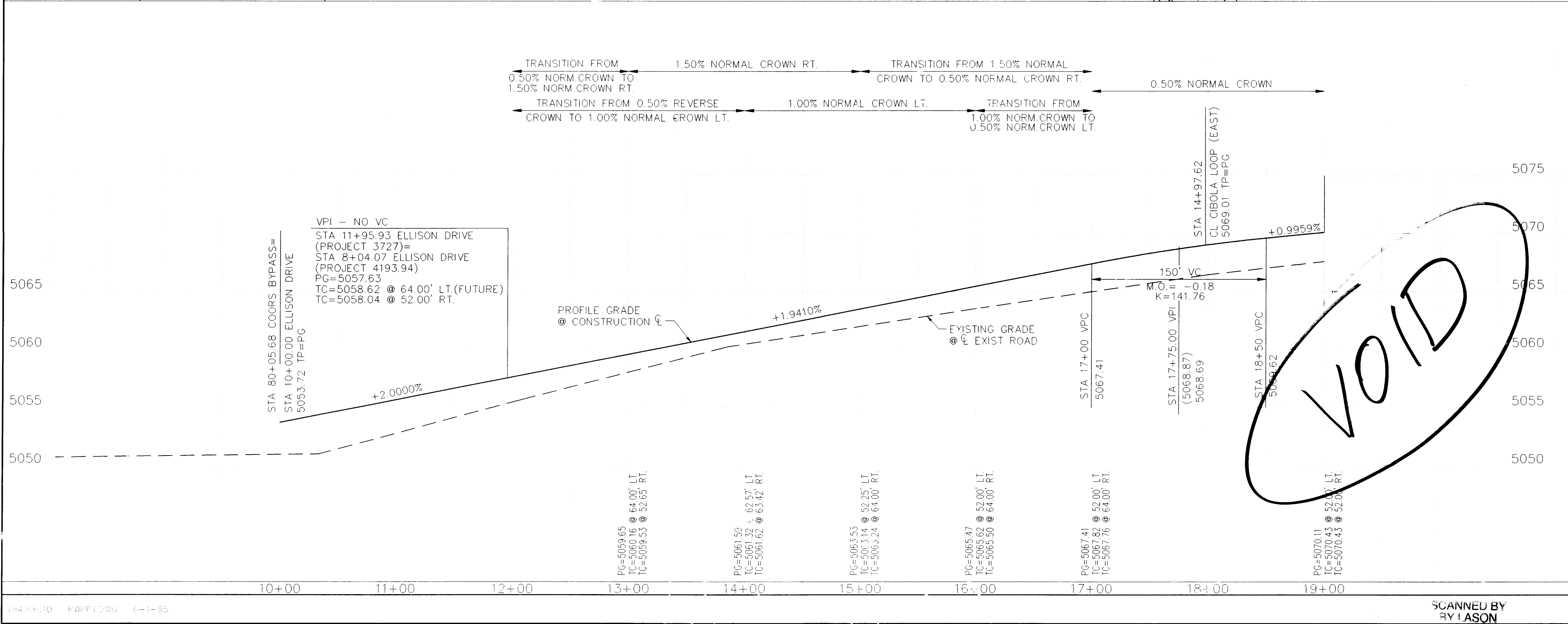
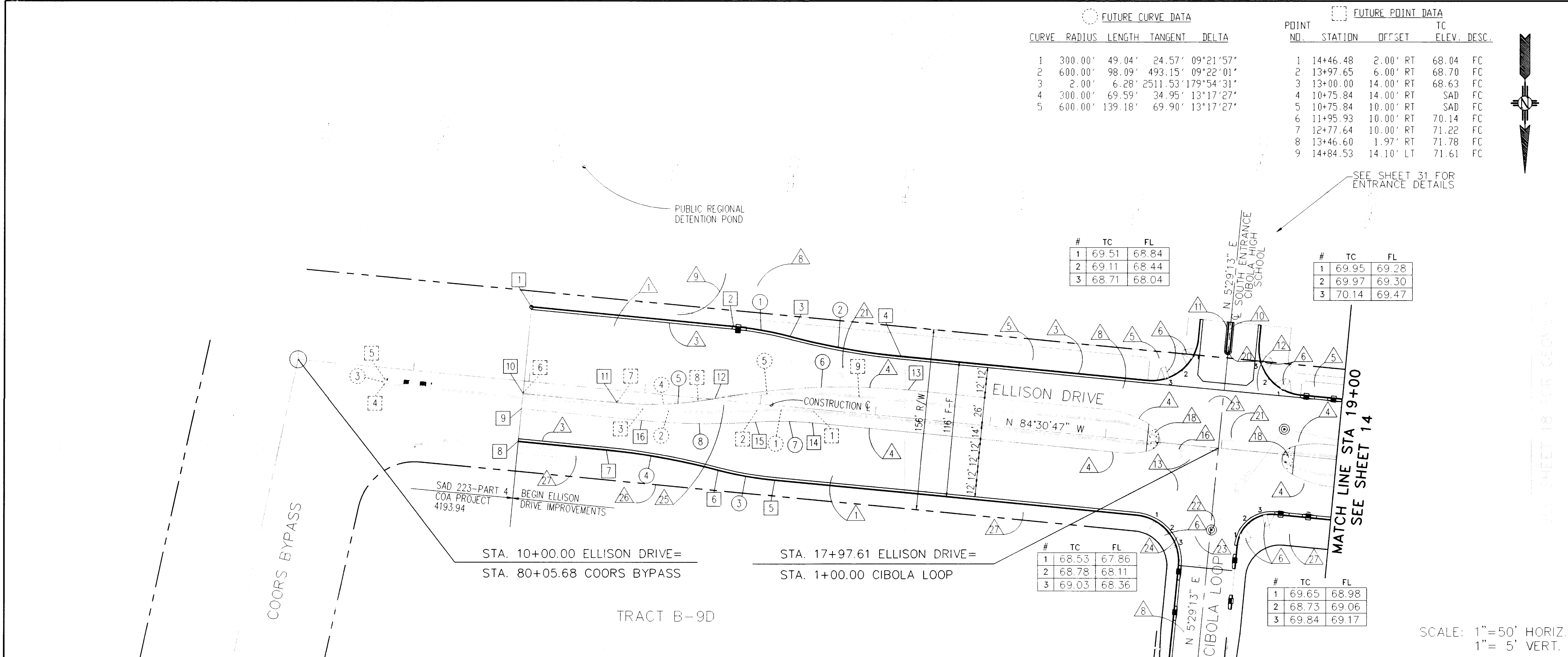
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACCS	DATE	NO.	DATE	NO.	DATE
WORK BY	DATE	PT 81, 1980, 3-A-13", SET IN CONCRETE	DATE	1	DATE	1	DATE
WORK BY	DATE	LOCATED 0.33 MILES SOUTH OF THE SANDOVAL CO. / BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT. SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF STATE ROAD 528 AND 33.5 FT. EAST OF THE RIGHT-OF-WAY FENCE OF BLACKS CHANNEL	DATE	2	DATE	2	DATE
WORK BY	DATE	REVISIONS	DATE	3	DATE	3	DATE
WORK BY	DATE	REVISIONS	DATE	4	DATE	4	DATE
WORK BY	DATE	REVISIONS	DATE	5	DATE	5	DATE
WORK BY	DATE	REVISIONS	DATE	6	DATE	6	DATE
WORK BY	DATE	REVISIONS	DATE	7	DATE	7	DATE
WORK BY	DATE	REVISIONS	DATE	8	DATE	8	DATE
WORK BY	DATE	REVISIONS	DATE	9	DATE	9	DATE
WORK BY	DATE	REVISIONS	DATE	10	DATE	10	DATE
WORK BY	DATE	REVISIONS	DATE	11	DATE	11	DATE
WORK BY	DATE	REVISIONS	DATE	12	DATE	12	DATE
WORK BY	DATE	REVISIONS	DATE	13	DATE	13	DATE
WORK BY	DATE	REVISIONS	DATE	14	DATE	14	DATE
WORK BY	DATE	REVISIONS	DATE	15	DATE	15	DATE
WORK BY	DATE	REVISIONS	DATE	16	DATE	16	DATE
WORK BY	DATE	REVISIONS	DATE	17	DATE	17	DATE
WORK BY	DATE	REVISIONS	DATE	18	DATE	18	DATE
WORK BY	DATE	REVISIONS	DATE	19	DATE	19	DATE
WORK BY	DATE	REVISIONS	DATE	20	DATE	20	DATE

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

SCALE: 1"=10'

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ELLISON DRIVE					
TYPICAL SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		
PROJECT NO.	3727	MAP NO.	A-13	SHEET	12 OF 72



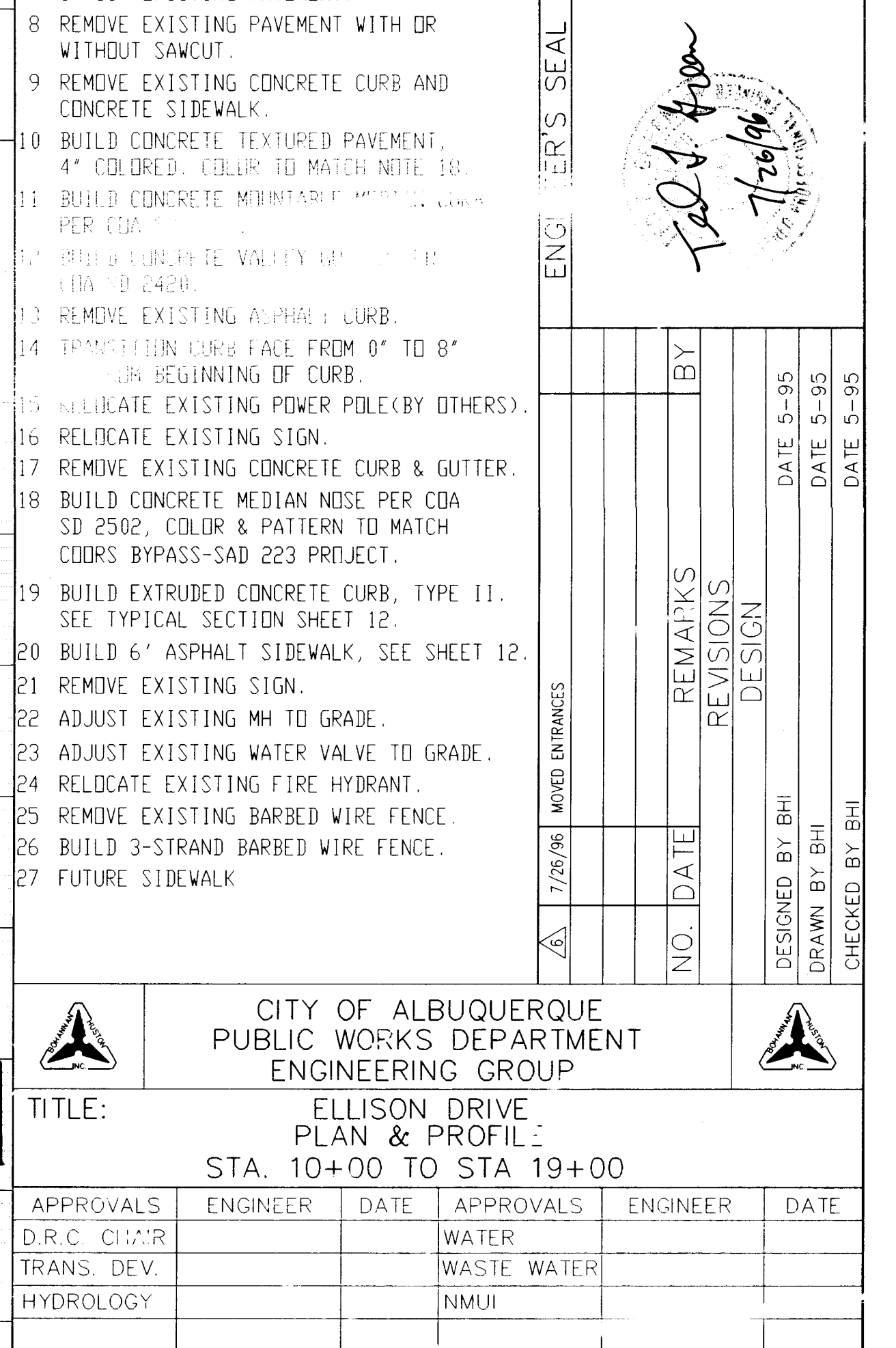
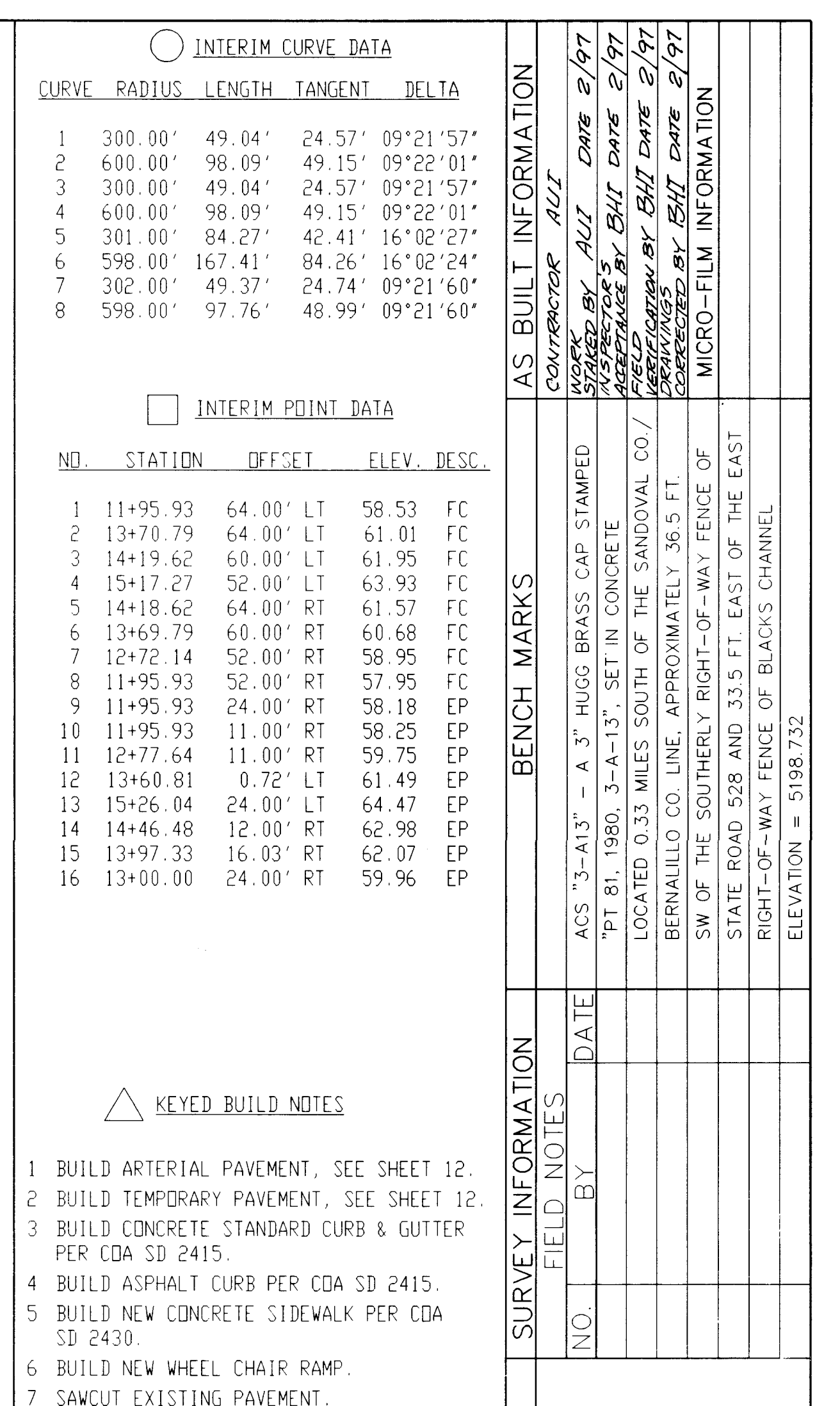
FUTURE CURVE DATA					FUTURE POINT DATA			
CURVE	RADIUS	LENGTH	TANGENT	DELTA	POINT NO.	STATION	OFFSET	TC ELEV. DESC.
1	300.00'	49.04'	24.57'	09°21'57"	1	14+46.48	2.00' RT	68.04 FC
2	600.00'	98.09'	49.15'	09°22'01"	2	13+97.65	6.00' RT	68.70 FC
3	2.00'	6.28'	2511.53'	179°54'31"	3	13+00.00	14.00' RT	68.63 FC
4	300.00'	69.59'	34.95'	13°17'27"	4	10+75.84	14.00' RT	SAD FC
5	600.00'	139.18'	69.90'	13°17'27"	5	10+75.84	10.00' RT	SAD FC
					6	11+95.93	10.00' RT	70.14 FC
					7	12+77.64	10.00' RT	71.22 FC
					8	13+46.60	1.97' RT	71.78 FC
					9	14+84.53	14.10' LT	71.61 FC

INTERIM CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	300.00'	49.04'	24.57'	09°21'57"
2	600.00'	98.09'	49.15'	09°22'01"
3	300.00'	49.04'	24.57'	09°21'57"
4	600.00'	98.09'	49.15'	09°22'01"
5	301.00'	84.27'	42.41'	16°02'27"
6	598.00'	167.41'	84.26'	16°02'24"
7	302.00'	49.37'	24.74'	09°21'60"
8	598.00'	97.76'	48.99'	09°21'60"

INTERIM POINT DATA			
NO.	STATION	OFFSET	ELEV. DESC.
1	11+95.93	64.00' LT	58.53 FC
2	13+70.79	64.00' LT	61.01 FC
3	14+19.62	60.00' LT	61.95 FC
4	15+17.27	52.00' LT	63.93 FC
5	14+18.62	64.00' RT	61.57 FC
6	13+69.79	60.00' RT	60.68 FC
7	12+72.14	52.00' RT	58.95 FC
8	11+95.93	52.00' RT	57.95 FC
9	11+95.93	24.00' RT	58.18 FC
10	11+95.93	11.00' RT	58.25 FC
11	12+77.64	11.00' RT	59.75 FC
12	13+60.81	0.72' LT	61.49 FC
13	15+26.04	24.00' LT	64.47 FC
14	14+46.48	12.00' RT	62.98 FC
15	13+97.33	16.03' RT	62.07 FC
16	13+00.00	24.00' RT	59.96 FC

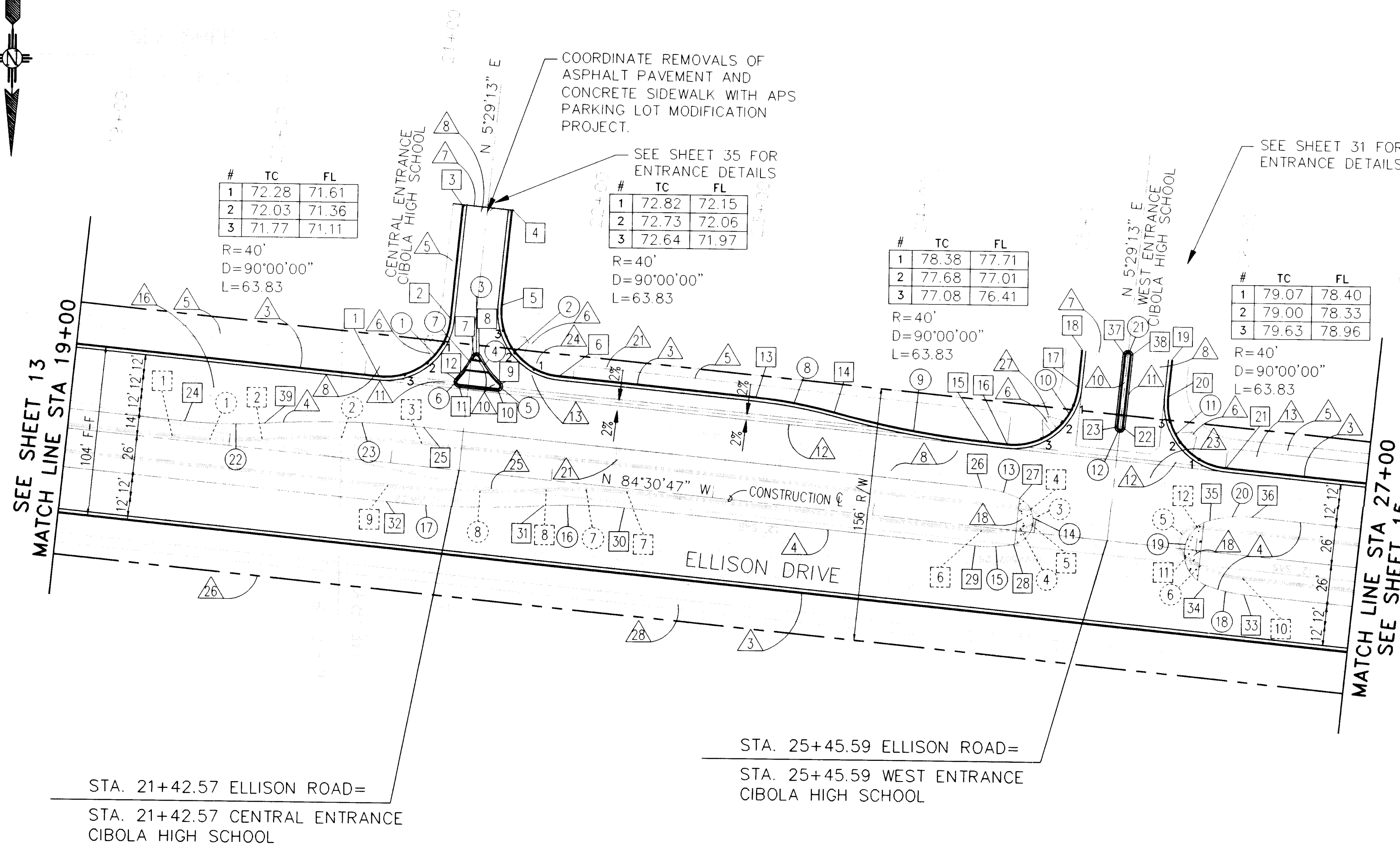
KEYED BUILD NOTES	
1	BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
2	BUILD TEMPORARY PAVEMENT, SEE SHEET 12.
3	BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
4	BUILD ASPHALT CURB PER CDA SD 2415.
5	BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
6	BUILD NEW WHEEL CHAIR RAMP.
7	SAWCUT EXISTING PAVEMENT.
8	REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
9	REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
10	BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED. COLOR TO MATCH NOTE 18.
11	BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
12	BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
13	REMOVE EXISTING ASPHALT CURB.
14	TRANSITION CURB FACE FROM 0" TO 8" 3" FROM BEGINNING OF CURB.
15	RELOCATE EXISTING POWER POLE (BY OTHERS).
16	RELOCATE EXISTING SIGN.
17	REMOVE EXISTING CONCRETE CURB & GUTTER.
18	BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, COLOR: BOMANITE COLOR-MEXICAN TILE B-7, PATTERN: BOMANITE-RANDOM STONE. THIS MATCHES SAD 223 PATTERN & COLORS.
19	BUILD EXTRUDED CONCRETE CURB, TYPE 11. SEE TYPICAL SECTION SHEET 12.
20	BUILD 6' ASPHALT SIDEWALK, SEE SHEET 12.
21	REMOVE EXISTING SIGN.
22	ADJUST EXISTING MH TO GRADE.
23	ADJUST EXISTING WATER VALVE TO GRADE.
24	RELOCATE EXISTING FIRE HYDRANT.
25	REMOVE EXISTING BARBED WIRE FENCE.
26	BUILD 3-STRAND BARBED WIRE FENCE.
27	FUTURE SIDEWALK

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS		DESIGN	
NO.	STATION	DATE	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
1	11+95.93	64.00' LT	58.53 FC	1	11+95.93	64.00' LT	58.53 FC	1	11+95.93	64.00' LT	58.53 FC
2	13+70.79	64.00' LT	61.01 FC	2	13+70.79	64.00' LT	61.01 FC	2	13+70.79	64.00' LT	61.01 FC
3	14+19.62	60.00' LT	61.95 FC	3	14+19.62	60.00' LT	61.95 FC	3	14+19.62	60.00' LT	61.95 FC
4	15+17.27	52.00' LT	63.93 FC	4	15+17.27	52.00' LT	63.93 FC	4	15+17.27	52.00' LT	63.93 FC
5	14+18.62	64.00' RT	61.57 FC	5	14+18.62	64.00' RT	61.57 FC	5	14+18.62	64.00' RT	61.57 FC
6	13+69.79	60.00' RT	60.68 FC	6	13+69.79	60.00' RT	60.68 FC	6	13+69.79	60.00' RT	60.68 FC
7	12+72.14	52.00' RT	58.95 FC	7	12+72.14	52.00' RT	58.95 FC	7	12+72.14	52.00' RT	58.95 FC
8	11+95.93	52.00' RT	57.95 FC	8	11+95.93	52.00' RT	57.95 FC	8	11+95.93	52.00' RT	57.95 FC
9	11+95.93	24.00' RT	58.18 FC	9	11+95.93	24.00' RT	58.18 FC	9	11+95.93	24.00' RT	58.18 FC
10	11+95.93	11.00' RT	58.25 FC	10	11+95.93	11.00' RT	58.25 FC	10	11+95.93	11.00' RT	58.25 FC
11	12+77.64	11.00' RT	59.75 FC	11	12+77.64	11.00' RT	59.75 FC	11	12+77.64	11.00' RT	59.75 FC
12	13+60.81	0.72' LT	61.49 FC	12	13+60.81	0.72' LT	61.49 FC	12	13+60.81	0.72' LT	61.49 FC
13	15+26.04	24.00' LT	64.47 FC	13	15+26.04	24.00' LT	64.47 FC	13	15+26.04	24.00' LT	64.47 FC
14	14+46.48	12.00' RT	62.98 FC	14	14+46.48	12.00' RT	62.98 FC	14	14+46.48	12.00' RT	62.98 FC
15	13+97.33	16.03' RT	62.07 FC	15	13+97.33	16.03' RT	62.07 FC	15	13+97.33	16.03' RT	62.07 FC
16	13+00.00	24.00' RT	59.96 FC	16	13+00.00	24.00' RT	59.96 FC	16	13+00.00	24.00' RT	59.96 FC



KEYED BUILD NOTES

- BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
- BUILD TEMPORARY PAVEMENT, SEE SHEET 12.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED. COLOR TO MATCH NOTE 18.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0" TO 8" 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, COLOR: BOMANITE COLOR-MEXICAN TILE B-7, PATTERN: BOMANITE-RANDOM STONE. THIS MATCHES SAD 223 PATTERN & COLORS.
- BUILD EXTRUDED CONCRETE CURB, TYPE 11, SEE TYPICAL SECTION SHEET 12.
- BUILD 6" ASPHALT SIDEWALK, SEE SHEET 12.
- REMOVE EXISTING SIGN.
- ADJUST EXISTING MH TO GRADE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- RELOCATE EXISTING FIRE HYDRANT.
- REMOVE EXISTING BARBED WIRE FENCE.
- BUILD 3-STRAND BARBED WIRE FENCE.
- RELOCATE EXISTING CONCRETE METER/VALVE VAULTS. COORDINATE DETAILS & LOCATIONS WITH NMUI.
- FUTURE SIDEWALK



FUTURE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	300.00'	49.04'	24.57'	09°21'57"
2	600.00'	98.09'	49.15'	09°22'01"
3	5.00'	13.62'	23.60'	156°04'25"
4	75.00'	31.28'	15.87'	23°53'46"
5	10.00'	26.40'	39.03'	151°15'39"
6	75.00'	37.60'	9.20'	28°43'27"
7	300.00'	49.04'	24.57'	09°21'57"
8	600.00'	98.09'	49.15'	09°22'01"

FUTURE POINT DATA

POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	19+64.66	2.13' LT	71.23	TC
2	20+20.13	6.00' LT	71.73	TC
3	21+17.78	14.00' LT	72.50	TC
4	24+96.25	14.00' LT	77.70	TC
5	24+98.27	4.43' LT	77.92	TC
6	24+67.89	2.00' RT	77.47	TC
7	22+46.48	2.00' RT	74.10	TC
8	21+97.65	6.00' RT	73.46	TC
9	21+00.00	14.00' RT	72.33	TC
10	26+30.72	14.00' RT	80.61	TC
11	25+94.67	4.77' RT	74.85	TC
12	25+99.48	14.00' RT	77.76	TC

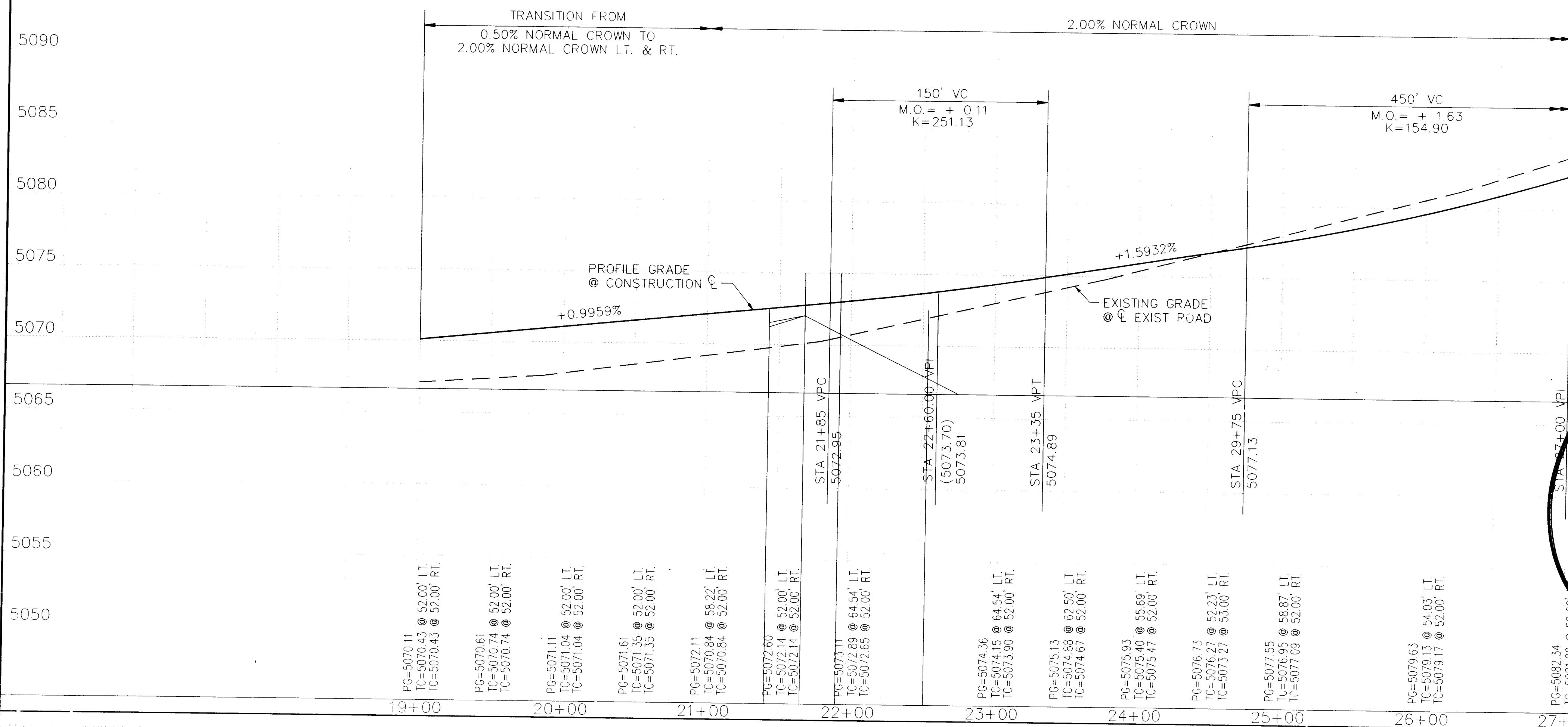
INTERIM CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	40.00'	62.83'	40.00'	89°59'50"
2	40.00'	62.83'	40.00'	89°59'50"
3	2.00'	4.41'	3.95'	126°20'33"
4	60.00'	21.67'	10.96'	20°41'46"
5	2.00'	5.02'	6.11'	143°45'02"
6	2.00'	4.46'	4.08'	127°47'59"
7	60.00'	18.01'	9.07'	17°11'49"
8	300.00'	49.04'	24.57'	09°27'57"
9	600.00'	98.09'	49.15'	09°22'01"
10	40.00'	62.83'	40.00'	89°59'50"
11	40.00'	62.83'	40.00'	89°59'50"
12	2.00'	6.28'	2511.53'	179°54'31"
13	73.00'	24.47'	12.35'	19°12'21"
14	15.00'	37.77'	46.54'	144°16'15"
15	82.00'	23.67'	11.92'	16°32'20"
16	302.00'	49.37'	24.74'	09°21'60"
17	598.00'	97.76'	48.99'	09°21'60"
18	88.00'	24.60'	12.38'	16°01'00"
19	21.00'	52.47'	63.05'	143°09'27"
20	73.00'	26.54'	13.42'	20°49'50"
21	2.00'	6.28'	2511.53'	179°54'31"
22	302.00'	49.37'	24.74'	09°22'00"
23	598.00'	97.76'	48.99'	09°22'00"

INTERIM POINT DATA

POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	20+87.57	52.00' LT	71.52	FC
2	21+27.57	92.00' LT	72.53	FC
3	21+27.57	163.00' LT	66.67	FC
4	21+57.57	163.00' LT	66.67	FC
5	21+57.57	104.00' LT	72.30	FC
6	21+97.57	64.00' LT	72.91	FC
7	21+43.74	70.89' LT	72.35	FC
8	21+47.29	71.27' LT	72.37	FC
9	21+62.10	55.61' LT	72.13	FC
10	21+60.91	52.00' LT	72.08	FC
11	21+36.56	52.00' LT	71.84	FC
12	21+34.98	55.23' LT	71.91	FC
13	23+20.00	64.00' LT	74.44	FC
14	23+68.83	60.00' LT	74.81	FC
15	24+66.48	52.00' LT	76.52	FC
16	24+77.59	52.00' LT	76.70	FC
17	25+17.59	92.00' LT	79.00	FC
18	25+17.59	115.00' LT	ME	FC
19	25+72.59	115.00' LT	ME	FC
20	25+72.59	92.00' LT	80.44	FC
21	26+12.59	52.00' LT	79.47	FC
22	25+47.59	70.30' LT	78.38	FC
23	25+43.59	70.30' LT	78.28	FC
24	19+71.30	12.00' LT	71.37	EP
25	21+17.78	24.00' LT	72.48	EP
26	24+64.59	24.00' LT	77.14	EP
27	24+88.60	19.94' LT	77.62	EP
28	24+87.94	8.61' RT	77.84	EP
29	24+64.59	12.00' RT	77.38	EP
30	22+46.48	12.00' RT	74.07	EP
31	21+97.33	16.03' RT	73.43	EP
32	21+00.00	24.00' RT	72.30	EP
33	26+32.59	24.00' RT	80.63	EP
34	26+08.31	20.58' RT	80.08	EP
35	26+06.64	19.23' RT	80.07	EP
36	26+32.59	24.00' RT	80.63	EP
37	25+43.59	115.00' LT	X.XX	FC
38	24+47.59	115.00' LT	X.XX	FC
39	20+54.11	16.03' LT	71.76	FC

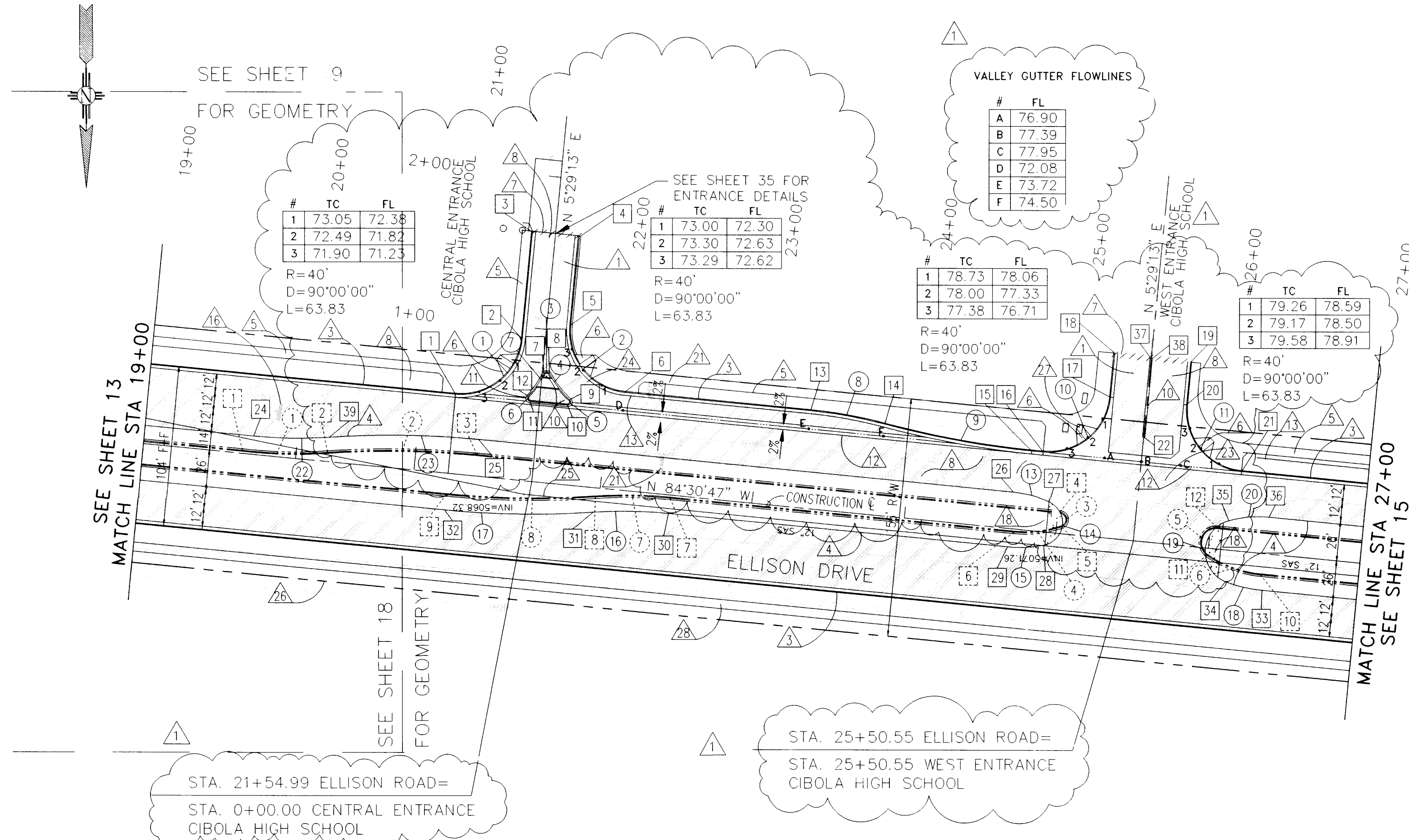
SCALE: 1"=50' HORIZ
1"= 5' VERT.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ELLISON DRIVE PLAN & PROFILE STA. 19+00 TO STA. 27+00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		
PROJECT NO.	3727.90	MAP NO.	A-13	SHEET	14 OF 72

KEYED BUILD NOTES

- BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
- BUILD TEMPORARY PAVEMENT, SEE SHEET 12.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD MONOLITHIC CONCRETE MEDIAN ISLAND. SEE DETAIL SHEET 35. MATCH EXISTING PINNED CURB AT SOUTH END. BEVEL NORTH END FROM 6" AT 3' FROM NORTH END TO 0" AT NORTH END.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0" TO 8" 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, MATCH EXISTING BOMANITE ON CDDRS BYPASS, SAD 223.
- BUILD EXTRUDED CONCRETE CURB, TYPE 11. SEE TYPICAL SECTION SHEET 12.
- BUILD 6" ASPHALT SIDEWALK, SEE SHEET 12.
- REMOVE EXISTING SIGN.
- ADJUST EXISTING MH TO GRADE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- RELOCATE EXISTING FIRE HYDRANT.
- REMOVE EXISTING BARBED WIRE FENCE.
- BUILD 3-STRAND BARBED WIRE FENCE.
- RELOCATE EXISTING CONCRETE METER/VALVE VAULTS. COORDINATE DETAILS & LOCATIONS WITH NMUI.
- FUTURE SIDEWALK



FUTURE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	300.00'	49.04'	24.57'	09°21'57"
2	600.00'	98.09'	49.15'	09°22'01"
3	5.00'	13.62'	23.60'	156°04'25"
4	75.00'	31.28'	15.87'	23°53'46"
5	10.00'	26.40'	39.03'	151°15'39"
6	75.00'	37.60'	9.20'	28°43'27"
7	300.00'	49.04'	24.57'	09°21'57"
8	600.00'	98.09'	49.15'	09°22'01"

FUTURE POINT DATA

POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	19+64.66	2.13' LT	71.23	TC
2	20+20.13	6.00' LT	71.73	TC
3	21+12.78	14.00' LT	72.50	TC
4	25+01.25	14.00' LT	77.96	TC
5	25+03.27	4.43' LT	78.18	TC
6	24+72.89	2.00' RT	77.72	TC
7	22+46.48	2.00' RT	74.10	TC
8	21+97.65	6.00' RT	73.46	TC
9	21+00.00	14.00' RT	72.33	TC
10	26+35.72	14.00' RT	80.91	TC
11	25+99.67	4.77' RT	80.19	TC
12	26+04.48	14.00' RT	80.12	TC

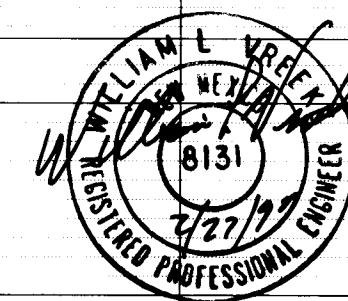
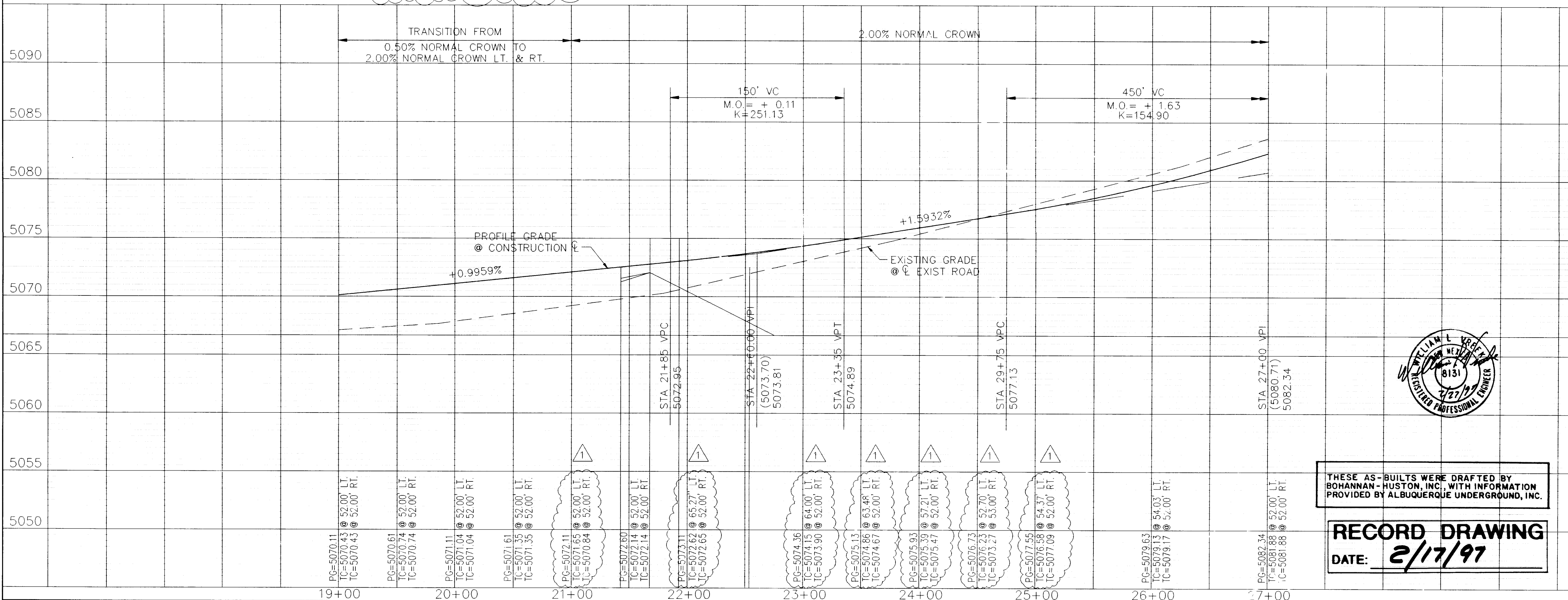
INTERIM CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	40.00'	62.83'	40.00'	89°59'50"
2	40.00'	62.83'	40.00'	89°59'50"
3	2.00'	4.41'	3.95'	126°20'33"
4	60.00'	21.67'	10.96'	20°41'46"
5	2.00'	5.02'	6.11'	143°45'02"
6	2.00'	4.46'	4.08'	127°47'59"
7	60.00'	18.01'	9.07'	17°11'49"
8	300.00'	49.04'	24.57'	09°21'57"
9	600.00'	98.09'	49.15'	09°22'01"
10	40.00'	62.83'	40.00'	89°59'50"
11	40.00'	62.83'	40.00'	89°59'50"
12	NOT USED			
13	73.00'	24.47'	12.35'	19°12'21"
14	15.00'	37.77'	46.54'	144°16'15"
15	82.00'	23.67'	11.92'	16°32'20"
16	302.00'	49.37'	24.74'	09°21'60"
17	598.00'	97.76'	48.99'	09°21'60"
18	88.00'	24.60'	12.38'	16°01'00"
19	21.00'	52.47'	63.05'	143°09'27"
20	73.00'	26.54'	13.42'	20°49'50"
21	NOT USED			
22	302.00'	49.37'	24.74'	09°22'00"
23	598.00'	97.76'	48.99'	09°22'00"

INTERIM POINT DATA

POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	21+00.00	52.00' LT	71.65	FC
2	21+40.00	92.00' LT	72.83	FC
3	21+40.00	163.00' LT	ME	FC
4	21+70.00	163.00' LT	ME	FC
5	21+70.00	104.00' LT	72.38	FC
6	22+10.00	64.00' LT	72.91	FC
7	21+55.61	70.89' LT	73.31	FC
8	21+59.71	71.27' LT	72.90	FC
9	21+73.33	55.61' LT	72.40	FC
10	21+74.52	52.00' LT	72.39	FC
11	21+48.98	52.00' LT	71.84	FC
12	21+47.40	55.23' LT	72.07	FC
13	23+32.42	64.00' LT	74.55	FC
14	23+81.25	60.00' LT	75.25	FC
15	24+78.90	52.00' LT	76.73	FC
16	24+86.43	52.00' LT	76.86	FC
17	25+26.43	92.00' LT	79.42	FC
18	25+26.43	120.00' LT	79.97	FC
19	25+76.60	120.00' LT	80.70	FC
20	25+76.60	92.00' LT	80.20	FC
21	26+16.60	52.00' LT	79.57	FC
22	25+50.55	68.30' LT	78.38	FC
23	NOT USED			
24	19+71.30	12.00' LT	71.37	EP
25	21+17.78	24.00' LT	72.48	EP
26	24+69.59	24.00' LT	76.56	EP
27	24+93.60	19.94' LT	77.04	EP
28	24+92.94	8.61' RT	77.24	EP
29	24+69.59	12.00' RT	76.80	EP
30	22+46.48	12.00' RT	74.07	EP
31	21+97.33	16.03' RT	73.43	EP
32	21+00.00	24.00' RT	72.30	EP
33	26+37.59	24.00' RT	81.09	EP
34	26+13.31	20.58' RT	79.54	EP
35	26+11.64	19.23' LT	79.53	EP
36	26+37.59	24.00' LT	80.09	EP
37	25+50.43	120.00' LT	80.16	TC
38	25+51.93	120.00' LT	80.16	TC
39	20+54.11	16.03' LT	71.76	FC

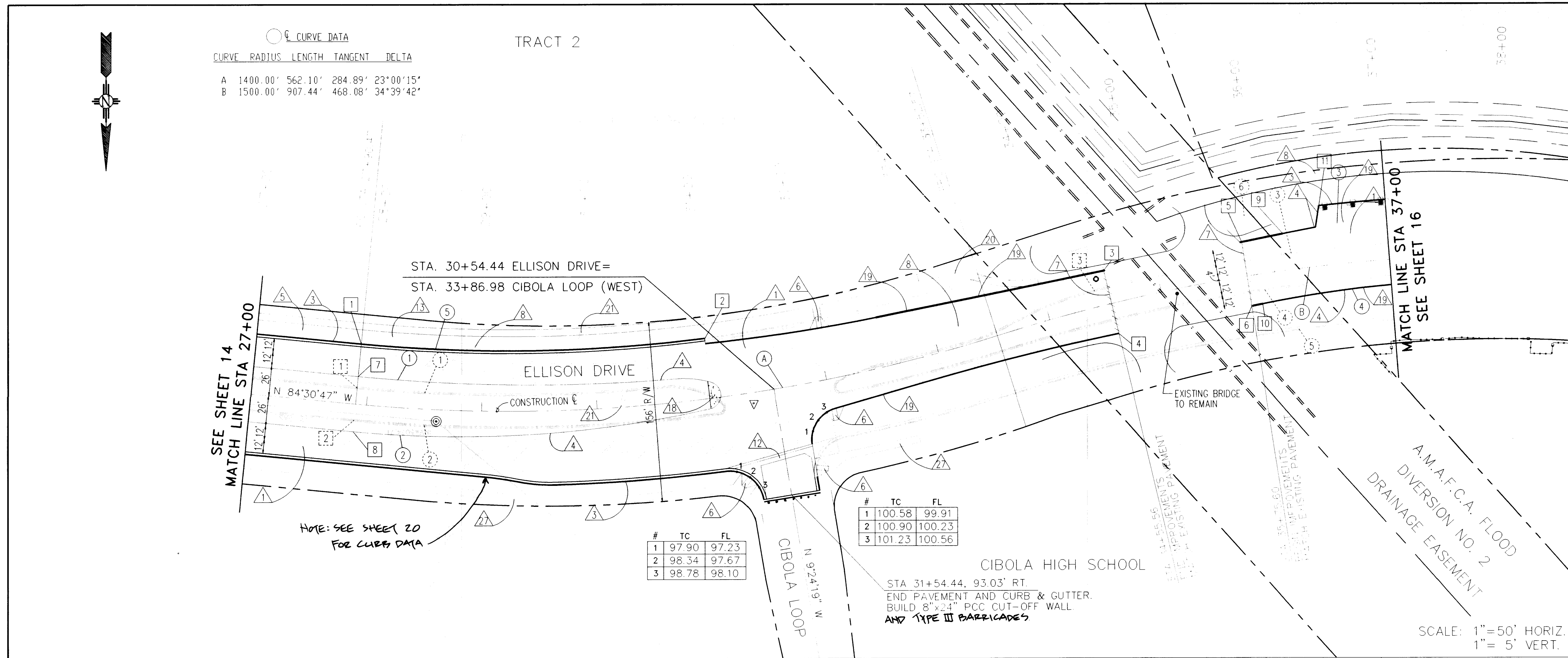
SCALE: 1"=50' HORIZ.
1"= 5' VERT.



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

CONTRACTOR AUT			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	2/17/97	W. Heston	1	2/17/97	W. Heston	1	2/17/97	W. Heston	1	2/17/97	W. Heston
2			2			2			2		
3			3			3			3		
4			4			4			4		
5			5			5			5		
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37			37			37			37		
38			38			38			38		
39			39			39			39		



INTERIM CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1514.00'	266.94'	133.82'	10°06'07"
2	986.00'	311.29'	156.95'	18°05'20"
3	1314.00'	400.16'	201.64'	17°26'55"
4	1036.00'	600.88'	309.16'	33°13'54"
5	1486.00'	441.46'	222.37'	17°01'17"
6	1986.00'	163.57'	81.83'	04°43'08"

INTERIM POINT DATA				
POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	27+90.47	52.00' LT	85.18	FC
2	31+00.00	52.00' LT	97.56	FC
3	34+55.56	29.27' LT	ME	FC
4	34+55.56	26.76' RT	ME	FC
5	35+75.60	29.79' LT	ME	FC
6	35+75.60	26.26' RT	ME	FC
7	27+90.47	24.00' LT	85.83	FC
8	27+90.47	24.00' RT	85.83	FC
9	36+11.29	31.84' LT	109.35	EP
10	35+85.52	25.80' RT	108.40	EP
11	36+44.67	52.00' LT	108.88	FC

ME=MATCH EXISTING

FUTURE CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1386.00'	265.93'	133.37'	10°59'36"
2	1414.00'	317.48'	159.41'	12°51'52"
3	1514.00'	823.77'	422.36'	31°10'29"
4	1486.00'	898.97'	463.71'	34°39'42"
5	1448.00'	875.98'	451.86'	34°39'42"
4	1552.00'	938.90'	484.31'	34°39'42"

FUTURE POINT DATA				
POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	27+90.47	14.00' LT	86.00	TC
2	27+90.47	14.00' RT	85.94	TC
3	34+43.86	14.00' LT	107.00	TC

KEYED BUILD NOTES

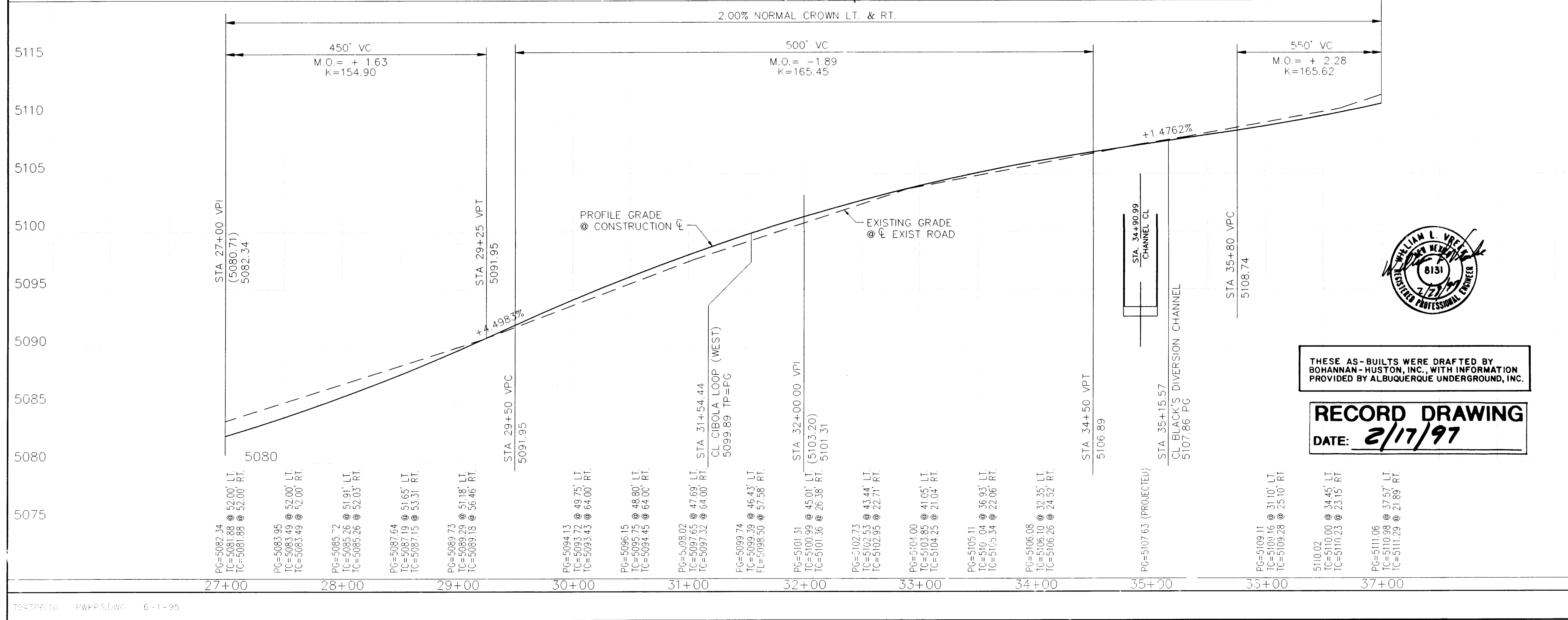
- BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
- BUILD TEMPORARY PAVEMENT, SEE SHEET 12.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0' TO 8' 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, COLOR: BOMANITE COLOR-MEXICAN TILE B-7, PATTERN: BOMANITE-RANDOM STONE THIS MATCHES SAD 223 PATTERN & COLORS.
- BUILD EXTRUDED CONCRETE CURB, TYPE II. SEE TYPICAL SECTION SHEET 12.
- BUILD 6' ASPHALT SIDEWALK, SEE SHEET 12.
- REMOVE EXISTING SIGN.
- ADJUST EXISTING MH TO GRADE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- RELOCATE EXISTING FIRE HYDRANT.
- REMOVE EXISTING BARBED WIRE FENCE.
- BUILD 3-STRAND BARBED WIRE FENCE.
- FUTURE SIDEWALK

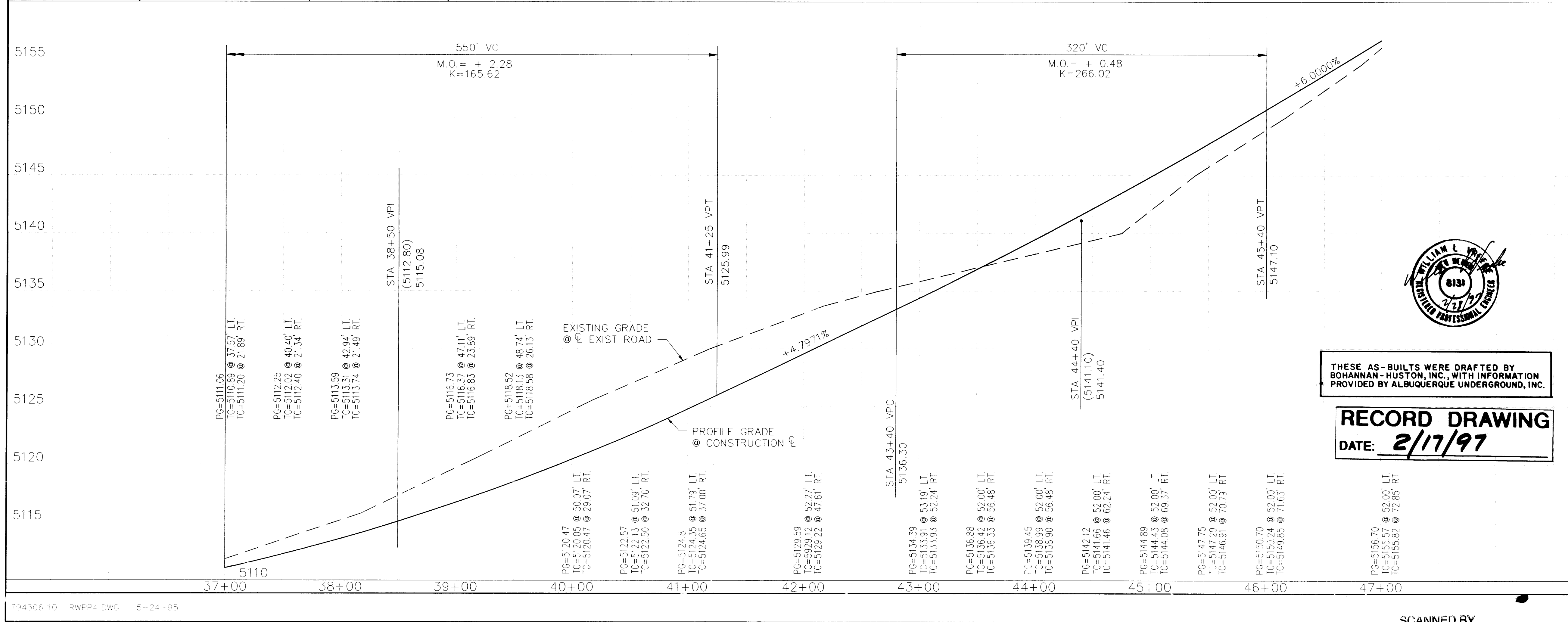
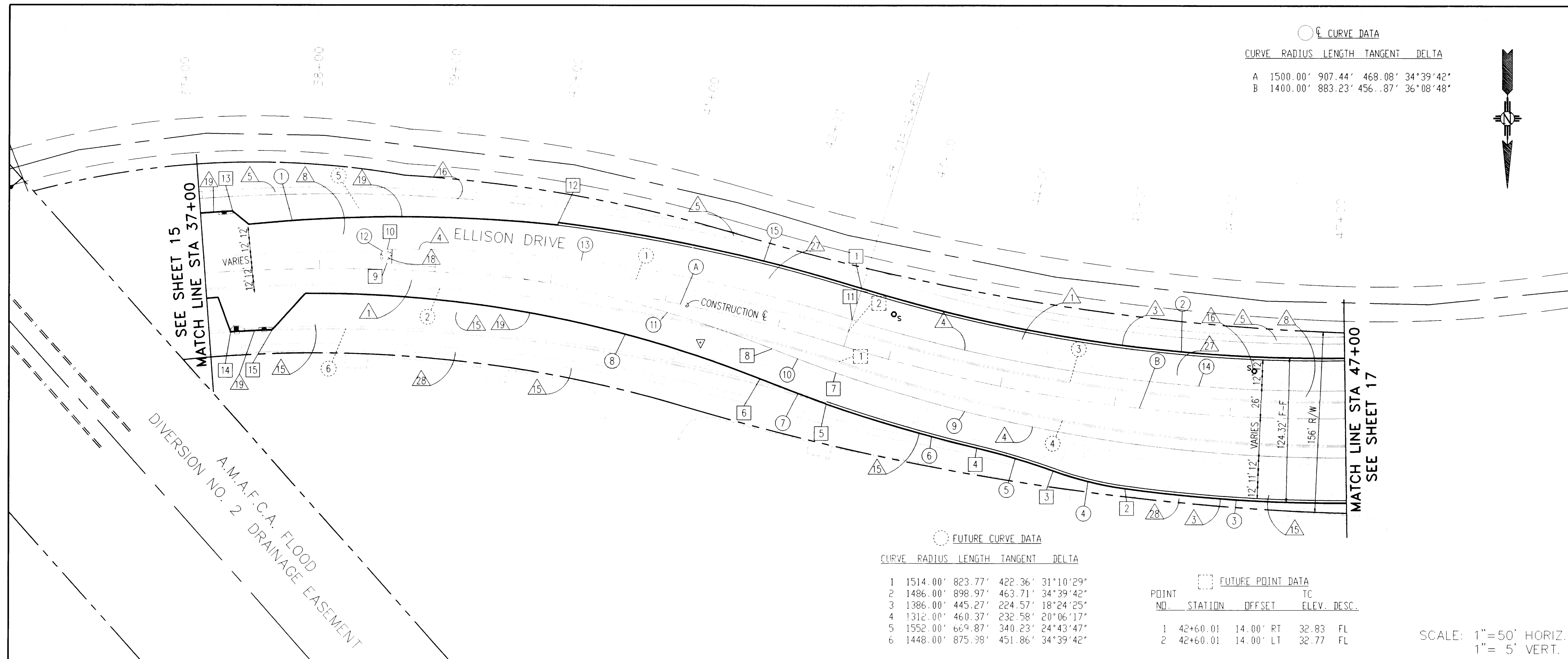
ENGINEER'S SEAL: [Signature]

RECORD DRAWING DATE: 2/17/97

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
TITLE: ELLISON DRIVE PLAN & PROFILE STA. 27+00 TO STA. 37+00				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
D.R.C. CHAIR	[Signature]	2/17/97	WATER	
TRANS. DEV.			WASTE WATER	
HYDROLOGY			NMUI	
PROJECT NO.	3727.90	MAP NO.	A-13	SHEET 15 OF 72





RECORD DRAWING
DATE: 2/17/97

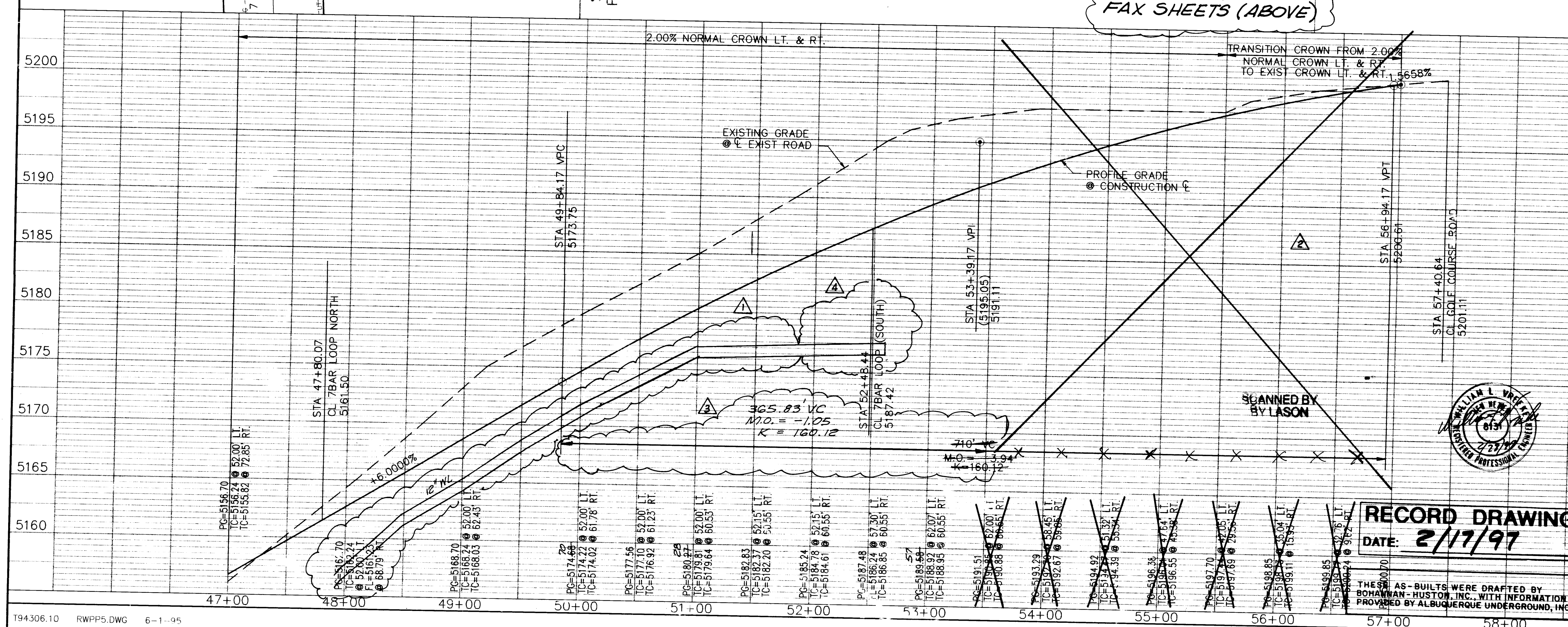
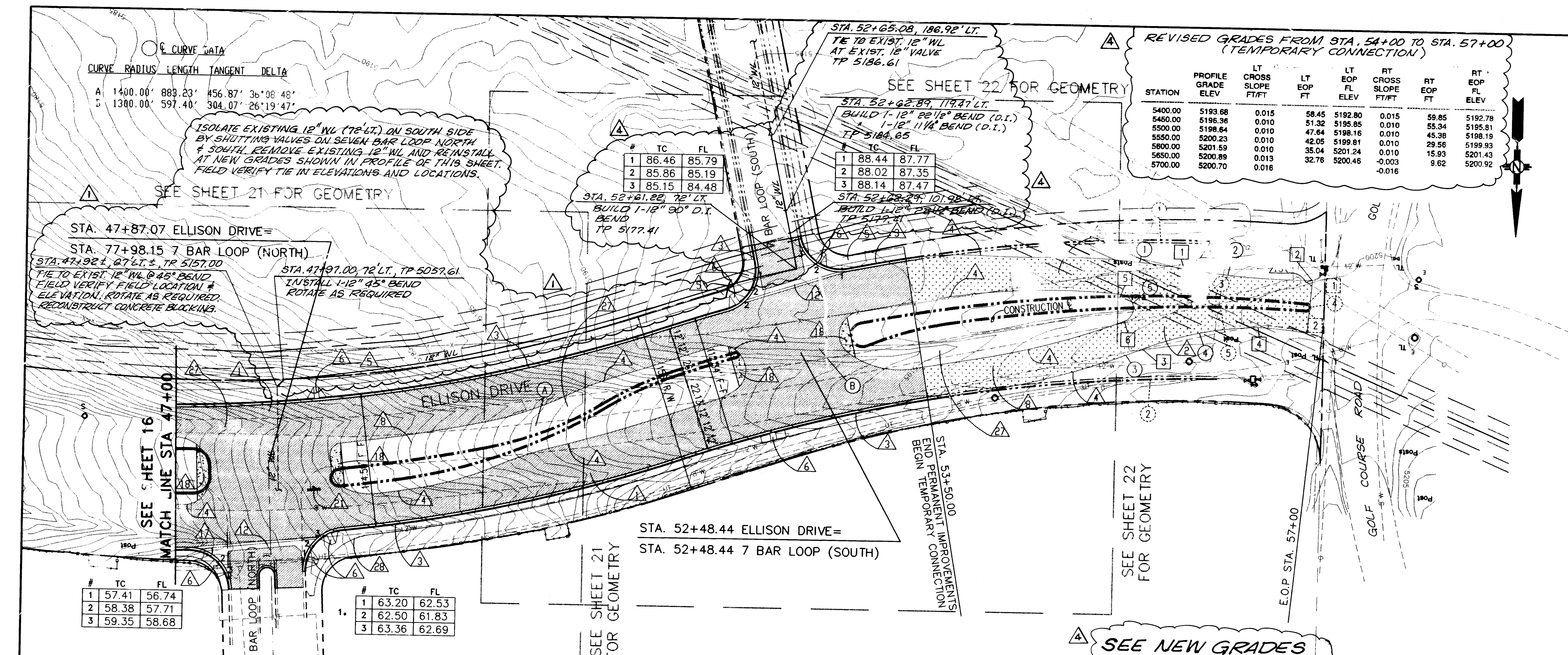
ENGINEER'S SEAL
BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

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

TITLE:
ELLISON DRIVE
PLAN & PROFILE
STA. 37+00 TO STA. 47+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV			WASTE WATER		
HYDROLOGY			NMUI		
			AMAFCA		

PROJECT NO. 3727.90 **MAP NO.** A-13 **SHEET** 16 **OF** 72



INTERIM CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	652.00'	122.70'	61.53'	10°46'57"
2	648.00'	110.38'	55.32'	09°45'35"
3	676.03'	154.16'	77.42'	13°03'28"
4	286.00'	101.54'	51.31'	20°20'31"
5	12.00'	32.17'	51.16'	153°36'02"

INTERIM POINT DATA

POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	55+79.19	37.79' LT	98.02	EP
2	56+86.43	34.90' LT	99.75	EP
3	55+43.94	31.71' RT	96.94	EP
4	56+44.16	9.76' RT	98.87	EP
5	55+25.91	15.75' LT	96.71	EP
6	55+28.36	7.49' RT	96.88	EP

FUTURE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1362.00'	269.86'	135.37'	11°21'08"
2	1400.00'	249.23'	124.95'	10°11'60"
3	1314.00'	402.70'	202.94'	17°33'34"
4	2.75'	8.65'	1424.17'	180°13'17"
5	1462.00'	306.64'	153.88'	12°01'02"

FUTURE POINT DATA

POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	56+83.92	14.00' LT	100.80	FL
2	56+83.90	8.49' LT	100.74	FL

KEYED BUILD NOTES

- BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
- BUILD TEMPORARY PAVEMENT, SEE SHEET 12.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0" TO 8" 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, COLOR: ROMANITE COLOR-MEXICAN TILE B-7, PATTERN: ROMANITE-RANDOM STONE THIS MATCHES SAD 223 PATTERN & COLORS.
- BUILD EXTRUDED CONCRETE CURB, TYPE II, SEE TYPICAL SECTION SHEET 12.
- BUILD 6" ASPHALT SIDEWALK, SEE SHEET 12.
- REMOVE EXISTING SIGN.
- ADJUST EXISTING MH TO GRADE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- RELOCATE EXISTING FIRE HYDRANT.
- REMOVE EXISTING BARBED WIRE FENCE.
- BUILD 3-STRAND BARBED WIRE FENCE.
- REMOVE EXISTING ASPHALT PAVED SHOULDER/DITCH. SEE TRAFFIC CONTROL PLAN FOR USE AS TEMPORARY LANE PRIOR TO REMOVAL.
- FUTURE SIDEWALK

AS BUILT INFORMATION

CONTRACTOR	DATE	BY	DATE	BY
ACS "3-A13"	1980	3-A-13	1980	3-A-13

SURVEY INFORMATION

NO.	DATE	BY	DATE	BY
1	1980	3-A-13	1980	3-A-13

ENGINEER'S SEAL

DESIGNED BY BHI

DRAWN BY BHI

CHECKED BY BHI

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

TITLE: ELLISON DRIVE PLAN & PROFILE STA. 47+00 TO E.O.P.

APPROVALS

ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR		WATER		
TRANS. DEV.		WASTE WATER		
HYDROLOGY		NMUI		

REVISIONS

NO.	DATE	REMARKS
1	5-95	DESIGN
2	5-95	DESIGN
3	5-95	DESIGN

RECORD DRAWING

DATE: 2/17/97

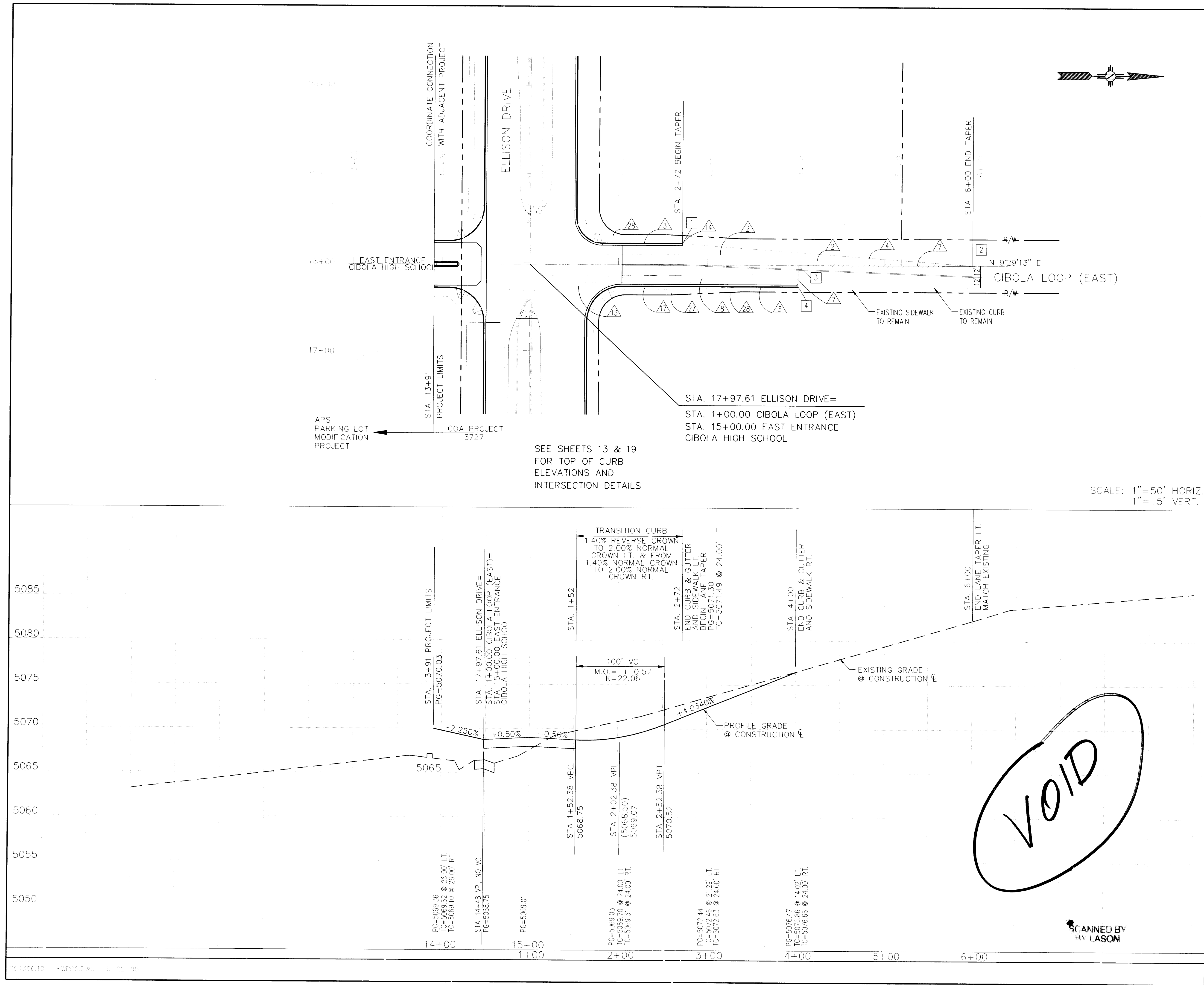
THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

PROJECT NO. 4193.93

MAP NO. A-13

SHEET 17 OF 72

372.90



INTERIM POINT DATA <table><tr><th>POINT NO.</th><th>STATION</th><th>OFFSET</th><th>TC</th><th>ELEV.</th><th>DESC.</th></tr><tr><td>1</td><td>2+72.00</td><td>24.44' LT</td><td>71.51</td><td>FC</td><td></td></tr><tr><td>2</td><td>6+00.00</td><td>DN CL</td><td>ME</td><td>CL</td><td></td></tr><tr><td>3</td><td>4+02.38</td><td>DN CL</td><td>ME</td><td>CL</td><td></td></tr><tr><td>4</td><td>4+02.38</td><td>24.00' RT</td><td>ME</td><td>FC</td><td></td></tr></table> ME=MATCH EXISTING				POINT NO.	STATION	OFFSET	TC	ELEV.	DESC.	1	2+72.00	24.44' LT	71.51	FC		2	6+00.00	DN CL	ME	CL		3	4+02.38	DN CL	ME	CL		4	4+02.38	24.00' RT	ME	FC		AS BUILT INFORMATION	
POINT NO.	STATION	OFFSET	TC	ELEV.	DESC.																														
1	2+72.00	24.44' LT	71.51	FC																															
2	6+00.00	DN CL	ME	CL																															
3	4+02.38	DN CL	ME	CL																															
4	4+02.38	24.00' RT	ME	FC																															
				BENCH MARKS																															
				SURVEY INFORMATION																															
				FIELD NOTES																															
				ENGINEER'S SEAL																															
				NO. DATE																															
				REMARKS																															
				DESIGNED BY: BHI																															
				DRAWN BY: BHI																															
				CHECKED BY: BHI																															
				DATE 3-95																															
				DATE 3-95																															
				DATE 3-95																															
				MICRO-FILM INFORMATION																															
				ELEVATION = 5198.732																															

KEYED BUILD NOTES

- BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
- BUILD RESIDENTIAL PAVEMENT, SEE SHEET 12.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0' TO 8' 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, COLOR: BOMANITE COLOR-MEXICAN TILE B-7, PATTERN: BOMANITE-RANDOM STONE. THIS MATCHES SAD 223 PATTERN & COLORS.
- BUILD EXTRUDED CONCRETE CURB, TYPE 11. SEE TYPICAL SECTION SHEET 12.
- BUILD 6' ASPHALT SIDEWALK, SEE SHEET 12.
- REMOVE EXISTING SIGN.
- ADJUST EXISTING MH TO GRADE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- RELOCATE EXISTING FIRE HYDRANT.
- REMOVE EXISTING BARBED WIRE FENCE.
- BUILD 3-STRAND BARBED WIRE FENCE.
- REMOVE EXISTING SIDEWALK.
- FUTURE SIDEWALK.

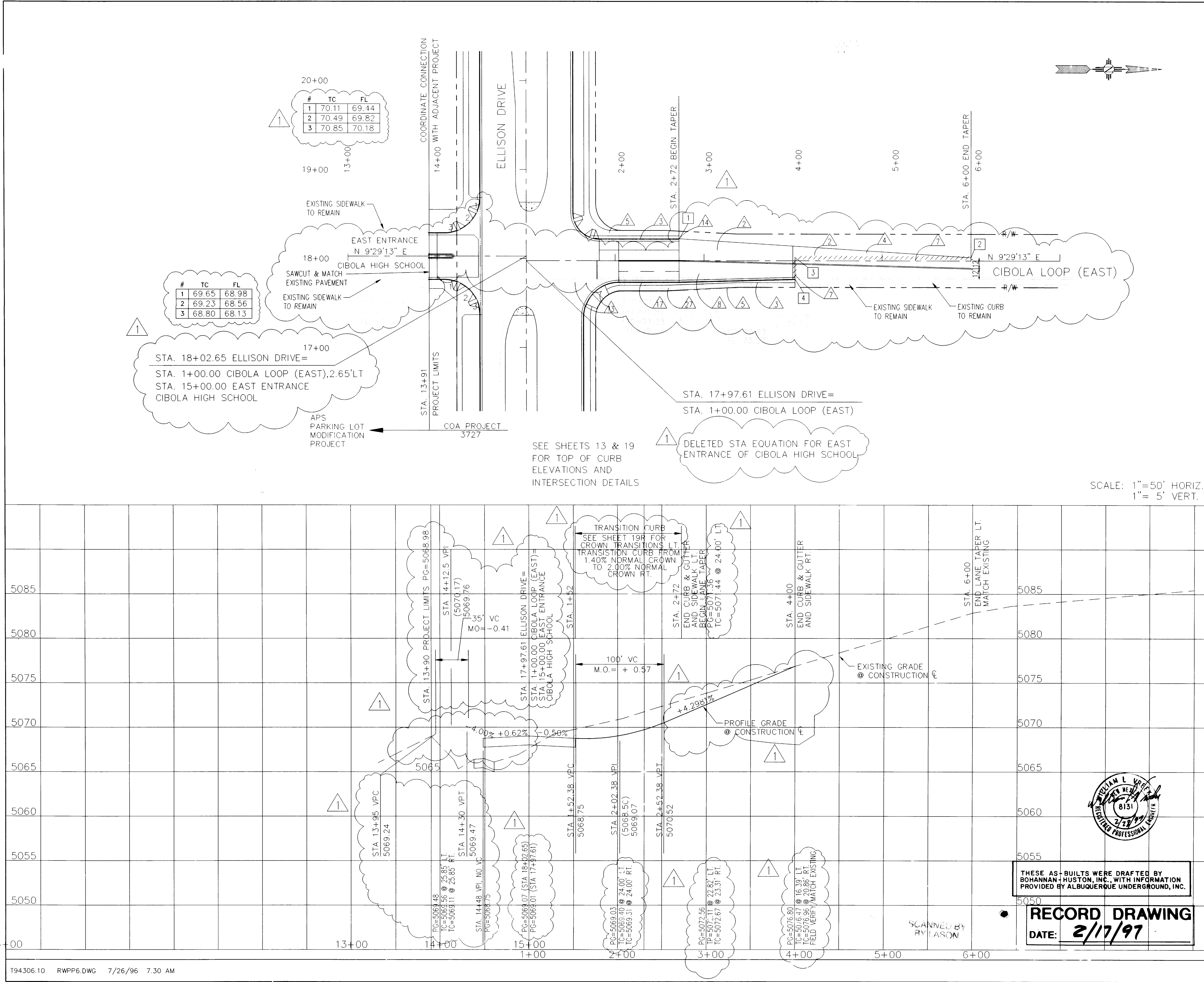
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
ELLISON DRIVE
PLAN & PROFILE
CIBOLA LOOP (EAST)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

PROJECT NO. 3727.90 MAP NO. A-13 SHEET 18 OF 72

VOID



INTERIM POINT DATA

POINT NO.	STATION	OFFSET	TC	ELEV.	DESC.
1	2+72.00	24.44' LT	71.51	FC	
2	6+00.00	3.53' LT	ME	CL	
3	4+02.38	3.53' LT	ME	CL	
4	4+02.38	20.80' RT	ME	FC	

ME=MATCH EXISTING

KEYED BUILD NOTES

- BUILD ARTERIAL PAVEMENT, SEE SHEET 12.
- BUILD TEMPORARY PAVEMENT, SEE SHEET 12.
- BUILD CONCRETE STANDARD CURB & GUTTER PER CDA SD 2415.
- BUILD ASPHALT CURB PER CDA SD 2415.
- BUILD NEW CONCRETE SIDEWALK PER CDA SD 2430.
- BUILD NEW WHEEL CHAIR RAMP.
- SAWCUT EXISTING PAVEMENT.
- REMOVE EXISTING PAVEMENT WITH OR WITHOUT SAWCUT.
- REMOVE EXISTING CONCRETE CURB AND CONCRETE SIDEWALK.
- BUILD CONCRETE TEXTURED PAVEMENT, 4" COLORED.
- BUILD CONCRETE MOUNTABLE MEDIAN CURB PER CDA SD 2415.
- BUILD CONCRETE VALLEY GUTTER PER CDA SD 2420.
- REMOVE EXISTING ASPHALT CURB.
- TRANSITION CURB FACE FROM 0' TO 8' 3' FROM BEGINNING OF CURB.
- RELOCATE EXISTING POWER POLE (BY OTHERS).
- RELOCATE EXISTING SIGN.
- REMOVE EXISTING CONCRETE CURB & GUTTER.
- BUILD CONCRETE MEDIAN NOSE PER CDA SD 2502, COLOR: BOMANITE COLOR-MEXICAN TILE B-7, PATTERN: BOMANITE-RANDOM STONE THIS MATCHES SAD 223 PATTERN & COLORS.
- BUILD EXTRUDED CONCRETE CURB, TYPE 11. SEE TYPICAL SECTION SHEET 12.
- BUILD 6" ASPHALT SIDEWALK, SEE SHEET 12.
- REMOVE EXISTING SIGN.
- ADJUST EXISTING MH TO GRADE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- RELOCATE EXISTING FIRE HYDRANT.
- REMOVE EXISTING BARBED WIRE FENCE.
- BUILD 3-STRAND BARBED WIRE FENCE.
- REMOVE EXISTING SIDEWALK.

AS BUILT INFORMATION

CONTRACTOR	DATE	BY
ACS "3-A13" - A 3" HUGG BRASS CAP STAMPED "PT 81, 1980, 3-A-13", SET IN CONCRETE LOCATED 0.33 MILES SOUTH OF THE SANDOVAL CO. / BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT. SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF STATE ROAD 528 AND 33.5 FT. EAST OF THE EAST RIGHT-OF-WAY FENCE OF BLACKS CHANNEL		

ENGINEER'S SEAL

7/19/99

REVISIONS

DESIGN

DATE 3-95

DATE 3-95

DATE 3-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

ELLISON DRIVE
PLAN & PROFILE
CIBOLA LOOP (EAST)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

PROJECT NO. 3727

MAP NO. A-13

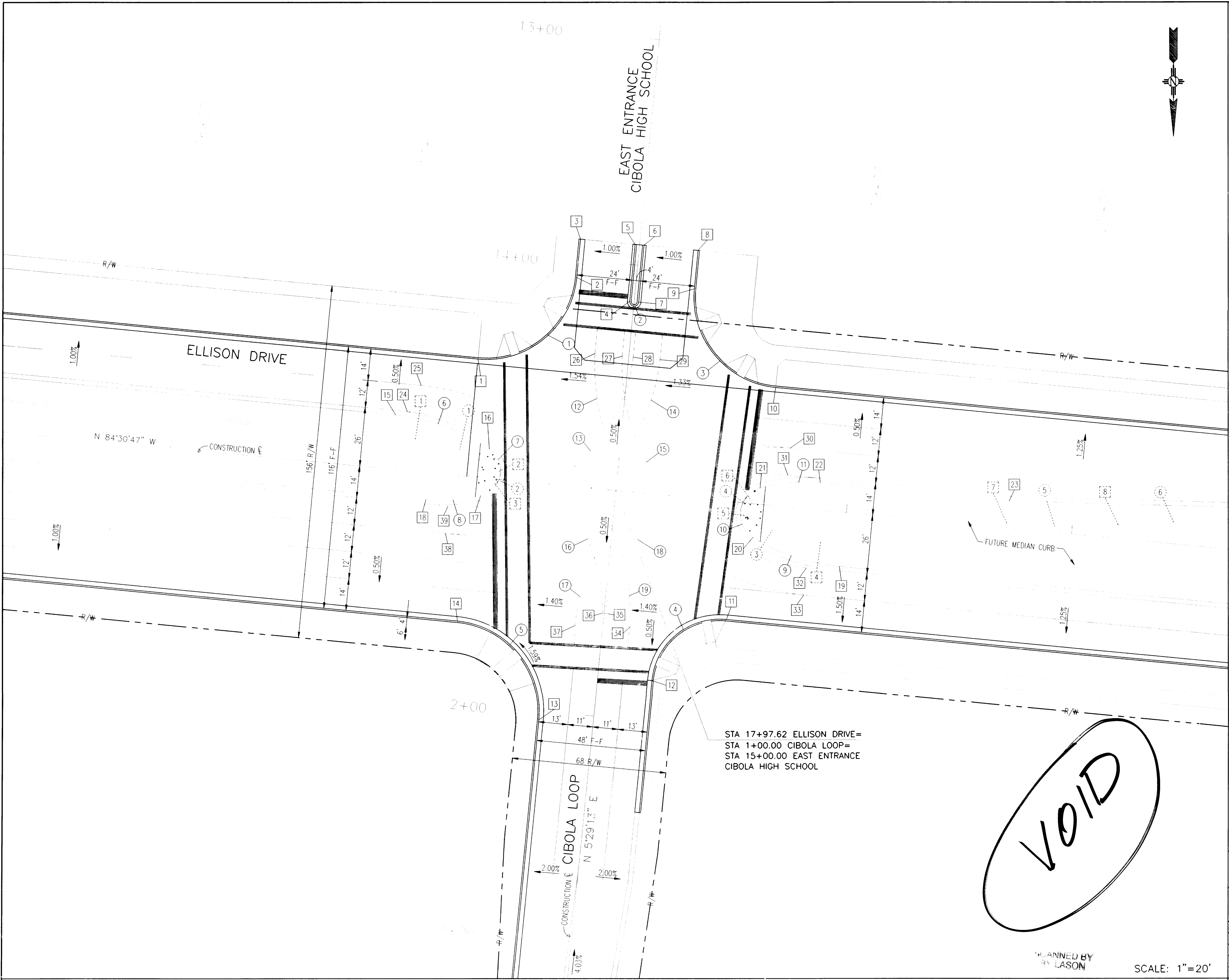
SHEET 18R OF XX

RECORD DRAWING

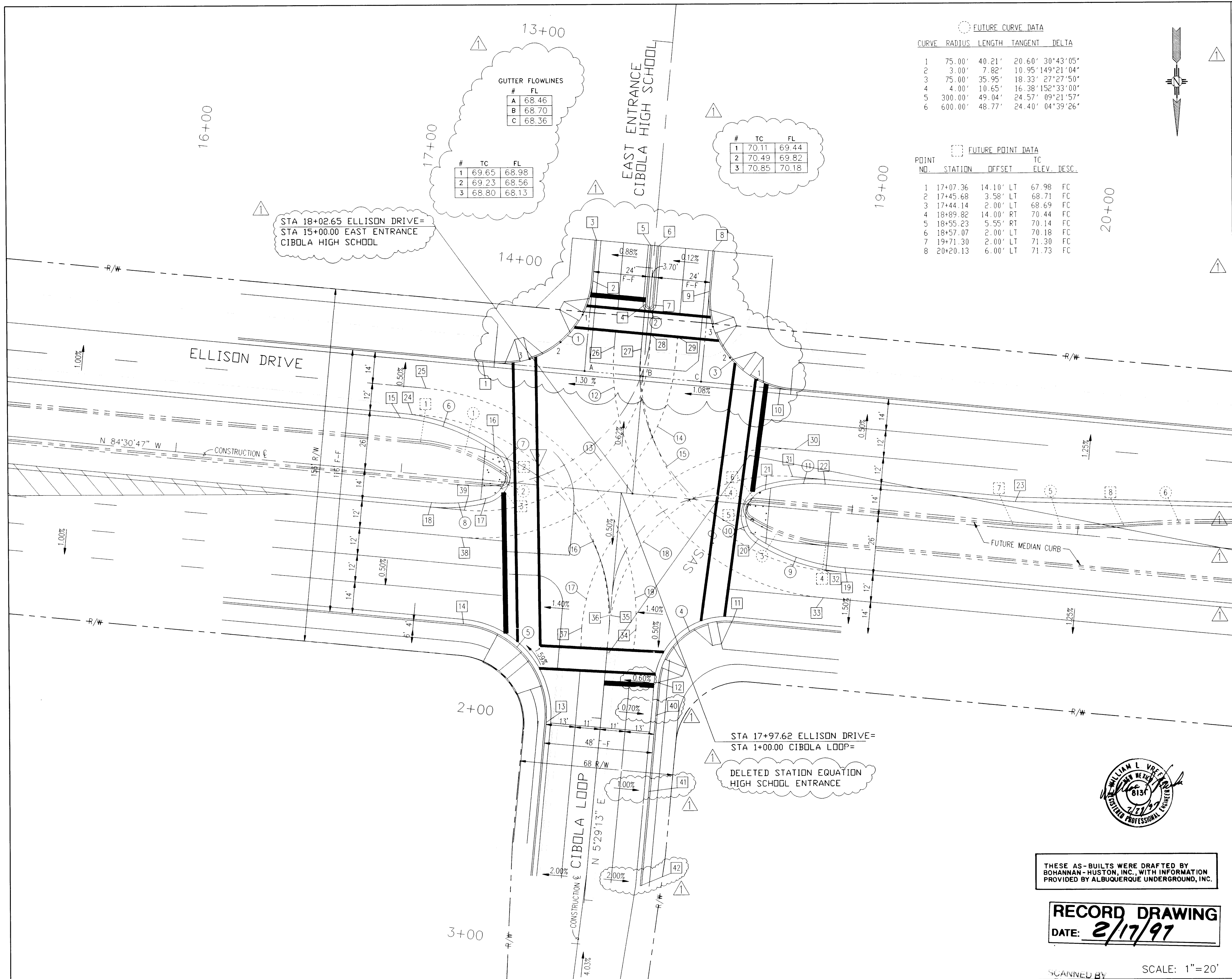
DATE: 2/17/97

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

SCANNED BY BYLASON



INTERIM CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	40.00'	62.83'	40.00'	89°59'50"
2	2.00'	6.28'	2511.53'	179°54'31"
3	40.00'	62.83'	40.00'	89°59'50"
4	30.00'	47.12'	30.00'	89°59'53"
5	40.00'	62.83'	40.00'	89°59'50"
6	88.00'	44.59'	22.78'	29°01'55"
7	11.50'	26.47'	25.76'	131°52'48"
8	73.00'	24.34'	12.28'	19°06'14"
9	88.00'	40.62'	20.68'	26°26'50"
10	12.00'	27.76'	27.30'	132°32'39"
11	73.00'	26.74'	13.52'	20°59'15"
12	102.00'	155.54'	97.42'	87°22'14"
13	75.00'	116.21'	73.42'	88°46'40"
14	87.00'	135.06'	85.42'	88°56'48"
15	90.00'	137.24'	85.96'	87°22'11"
16	90.00'	136.73'	85.47'	87°02'42"
17	87.00'	136.66'	87.00'	90°00'02"
18	75.00'	111.17'	68.64'	84°55'39"
19	102.00'	155.73'	97.60'	87°28'38"
INTERIM POINT DATA				
POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	17+31.62	52.00' LT	68.31	FC
2	17+71.62	92.00' LT	69.92	FC
3	17+71.62	109.00' LT	70.35	FC
4	17+95.62	83.38' LT	69.86	FC
5	17+95.62	109.00' LT	70.42	FC
6	17+99.62	109.00' LT	70.46	FC
7	17+99.62	83.77' LT	69.90	FC
8	18+23.62	109.00' LT	70.87	FC
9	18+23.62	92.00' LT	70.45	FC
10	18+63.62	52.00' LT	70.07	FC
11	18+51.62	52.00' RT	69.95	FC
12	18+21.62	82.00' RT	X.XX	FC
13	17+73.62	104.00' RT	X.XX	FC
14	17+33.62	64.00' RT	68.28	FC
15	16+97.63	24.00' LT	67.92	EP
16	17+40.33	12.94' LT	68.75	EP
17	17+38.51	7.98' RT	68.74	EP
18	17+14.62	12.00' RT	68.29	EP
19	18+84.62	24.00' RT	70.51	EP
20	18+59.93	14.79' RT	70.32	EP
21	18+60.94	7.16' LT	70.36	EP
22	18+87.12	12.00' LT	70.60	EP
23	19+71.43	12.00' LT	63.00	EP
24	17+02.62	25.86' LT	X.XX	ST
25	17+07.62	38.00' LT	X.XX	ST
26	17+82.73	59.32' LT	X.XX	ST
27	17+94.73	59.32' LT	X.XX	ST
28	17+99.61	58.85' LT	X.XX	ST
29	18+11.61	58.85' LT	X.XX	ST
30	18+22.62	26.00' LT	X.XX	ST
31	18+22.62	14.00' LT	X.XX	ST
32	18+84.62	26.00' RT	X.XX	ST
33	18+84.62	38.00' RT	X.XX	ST
34	18+09.52	59.51' RT	X.XX	ST
35	17+97.91	54.37' RT	X.XX	ST
36	17+97.10	54.37' RT	X.XX	ST
37	17+85.62	61.00' RT	X.XX	ST
38	17+24.62	26.00' RT	X.XX	ST
39	17+24.62	14.00' RT	X.XX	ST
FUTURE CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	75.00'	40.21'	20.60'	30°43'05"
2	3.00'	7.82'	10.95'	149°21'04"
3	75.00'	35.95'	18.33'	27°27'50"
4	4.00'	10.65'	16.38'	152°33'00"
5	300.00'	49.04'	24.57'	09°21'57"
6	600.00'	48.77'	24.40'	04°39'26"
FUTURE POINT DATA				
POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	17+07.36	14.10' LT	67.98	FC
2	17+45.68	3.58' LT	68.71	FC
3	17+44.14	2.00' LT	68.69	FC
4	18+89.82	14.00' RT	70.44	FC
5	18+55.23	5.55' RT	70.14	FC
6	18+57.07	2.00' LT	70.18	FC
7	19+71.30	2.00' LT	71.30	FC
8	20+20.13	6.00' LT	71.73	FC
BENCH MARKS				
ACS "3-A13" - A 3" HUGG BRASS CAP STAMPED PT 81, 1980, 3-A-13", SET IN CONCRETE LOCATED 0.33 MILES SOUTH OF THE SANDOVAL CO. / BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT. SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF STATE ROAD 528 AND 33.5 FT. EAST OF THE EAST RIGHT-OF-WAY FENCE OF BLACKS CHANNEL ELEVATION = 5198.752				
SURVEY INFORMATION				
FIELD NOTES		DATE		
NO.	BY			
ENGINEER'S SEAL				
J. J. J. 3/19/16				
REVISIONS				
NO.		DATE		REMARKS
				DESIGN
				DESIGNED BY RHI
				DRAWN BY BHI
				CHECKED BY BHI
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
TITLE: ELLISON DRIVE GEOMETRY PLAN ELLISON DRIVE / CIBOLA LOOP (EAST)				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
D.R.C. CHAIR			WATER	
TRANS. DEV			WASTE WATER	
HYDROLOGY			NMUI	
PROJECT NO.		MAP NO.		SHEET OF
3727.90		A-13		19 72



FUTURE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	75.00'	40.21'	20.60'	30°43'05"
2	3.00'	7.82'	10.95'	149°21'04"
3	75.00'	35.95'	18.33'	27°27'50"
4	4.00'	10.65'	16.38'	152°33'00"
5	300.00'	49.04'	24.57'	09°21'57"
6	600.00'	48.77'	24.40'	04°39'26"

FUTURE POINT DATA

POINT NO.	STATION	OFFSET	TC	ELEV.	DESC.
1	17+07.36	14.10' LT	67.98	FC	
2	17+45.68	3.58' LT	68.71	FC	
3	17+44.14	2.00' LT	68.69	FC	
4	18+89.82	14.00' RT	70.44	FC	
5	18+55.23	5.55' RT	70.14	FC	
6	18+57.07	2.00' LT	70.18	FC	
7	19+71.30	2.00' LT	71.30	FC	
8	20+20.13	6.00' LT	71.73	FC	

INTERIM CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	40.00'	62.83'	40.00'	89°59'50"
2	1.85'	5.81'	3516.73'	179°56'23"
3	40.00'	62.83'	40.00'	89°59'50"
4	30.00'	47.12'	30.00'	89°59'53"
5	40.00'	62.83'	40.00'	89°59'50"
6	88.00'	44.59'	22.78'	29°01'55"
7	11.50'	26.47'	25.76'	131°52'48"
8	73.00'	24.34'	12.28'	19°06'14"
9	88.00'	40.62'	20.68'	26°26'50"
10	12.00'	27.76'	27.30'	132°32'39"
11	73.00'	26.74'	13.52'	20°59'15"
12	102.00'	155.54'	97.42'	87°22'14"
13	75.00'	116.21'	73.42'	88°46'40"
14	87.00'	135.06'	85.42'	88°56'48"
15	90.00'	137.24'	85.96'	87°22'11"
16	90.00'	136.73'	85.47'	87°02'42"
17	87.00'	136.66'	87.00'	90°00'02"
18	75.00'	111.17'	68.64'	84°55'39"
19	102.00'	155.73'	97.60'	17°28'38"

INTERIM POINT DATA

POINT NO.	STATION	OFFSET	TC	ELEV.	DESC.
1	17+36.80	52.00' LT	68.38	FC	
2	17+48.00	25.85' LT	69.92	FC	
3	17+49.00	25.85' LT	69.42	FC	
4	17+16.23	1.85' LT	70.25	FC	
5	17+39.00	1.85' LT	69.48	FC	
6	17+39.00	1.85' RT	69.48	FC	
7	17+16.23	1.85' RT	70.29	FC	
8	17+39.00	25.85' RT	69.51	FC	
9	17+48.00	25.85' RT	70.55	FC	
10	17+68.50	52.00' LT	70.09	FC	
11	18+51.62	52.00' RT	69.95	FC	
12	18+21.62	82.00' RT	69.48	FC	
13	17+73.62	104.00' RT	69.26	FC	
14	17+33.62	64.00' RT	68.28	FC	
15	16+97.63	24.00' LT	67.92	EP	
16	17+40.33	12.94' LT	68.75	EP	
17	17+38.51	7.98' RT	68.74	EP	
18	17+14.62	12.00' RT	68.29	EP	
19	18+84.62	24.00' RT	70.51	EP	
20	18+59.93	14.79' RT	70.32	EP	
21	18+60.94	7.16' LT	70.36	EP	
22	18+87.12	12.00' LT	70.60	EP	
23	19+71.43	12.00' LT	63.00	EP	
24	17+02.62	25.86' LT	-	ST	
25	17+07.62	38.00' LT	-	ST	
26	17+88.80	64.00' LT	-	ST	
27	18+00.80	64.00' LT	-	ST	
28	18+04.50	70.77' LT	-	ST	
29	18+16.50	70.77' LT	-	ST	
30	18+22.62	26.00' LT	-	ST	
31	18+22.62	14.00' LT	-	ST	
32	18+90.80	26.00' RT	-	ST	
33	18+90.80	38.00' RT	-	ST	
34	18+09.52	59.51' RT	-	ST	
35	17+97.91	54.37' RT	-	ST	
36	17+97.10	54.37' RT	-	ST	
37	17+85.62	61.00' RT	-	ST	
38	17+29.50	26.00' RT	-	ST	
39	17+29.50	14.00' RT	-	ST	
40	1+96.42	24.00' LT	69.33	FC	
41	2+30.18	24.00' LT	70.07	FC	
42	2+72.00	24.00' LT	71.44	FC	

* EAST ENTRANCE STATIONS & OFFSETS
** CIBOLA LOOP EAST STATIONS & OFFSETS

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

SCALE: 1"=20'

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
BOHANNAN-HUSTON, INC.	2/17/97	ALLI									
DESIGNED BY	DATE	BY	DESIGNED BY	DATE	BY	DESIGNED BY	DATE	BY	DESIGNED BY	DATE	BY
BOHANNAN-HUSTON, INC.	2/17/97	ALLI	BOHANNAN-HUSTON, INC.	2/17/97	ALLI	BOHANNAN-HUSTON, INC.	2/17/97	ALLI	BOHANNAN-HUSTON, INC.	2/17/97	ALLI
CHECKED BY	DATE	BY	CHECKED BY	DATE	BY	CHECKED BY	DATE	BY	CHECKED BY	DATE	BY
BOHANNAN-HUSTON, INC.	2/17/97	ALLI	BOHANNAN-HUSTON, INC.	2/17/97	ALLI	BOHANNAN-HUSTON, INC.	2/17/97	ALLI	BOHANNAN-HUSTON, INC.	2/17/97	ALLI
MICRO-FILM INFORMATION			ELEVATION = 5198.732								

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ELLISON DRIVE GEOMETRY PLAN ELLISON DRIVE / CIBOLA LOOP (EAST)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		
PROJECT NO.	3727	MAP NO.	A-13	SHEET	19R 72



RECORD DRAWING
DATE: 2/17/97

SCANNED BY
BY LASON

NEER'S SEAL
J. A. J. J.
3/13/96

CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
A	1400.00'	883.23'	456.87'	36°08'48"

INTERIM CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1348.00'	850.42'	139.90'	36°08'47"
2	1361.00'	203.44'	101.91'	08°33'52"
3	35.00'	53.94'	33.98'	88°18'04"
4	35.00'	51.87'	32.02'	84°54'44"
5	1350.00'	296.40'	148.80'	12°34'47"
6	1376.00'	432.60'	218.10'	18°00'47"
7	28.00'	43.28'	27.31'	88°33'46"
8	21.00'	33.58'	21.60'	91°37'07"
9	1322.00'	456.74'	230.67'	19°47'43"
10	1310.00'	100.33'	50.19'	04°23'17"
11	302.00'	48.05'	24.08'	09°06'58"
12	298.00'	76.37'	38.40'	14°41'01"
13	48.00'	30.62'	15.85'	36°32'60"
14	18.00'	17.35'	9.42'	55°13'36"
15	10.00'	15.64'	9.93'	89°36'38"
16	1388.00'	124.62'	62.35'	05°08'39"
17	302.00'	75.32'	37.86'	14°17'23"
18	298.00'	47.92'	24.01'	09°12'48"
19	1322.00'	33.01'	16.51'	01°25'50"
20	87.00'	134.87'	85.23'	88°49'18"
21	75.00'	117.81'	75.00'	90°00'00"
22	75300'	121.89'	79.20'	93°07'02"

INTERIM POINT DATA				
POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	47+10.81	72.94' LT	56.44	FL
2	47+43.05	107.58' RT	X XX	FL
3	48+04.61	98.45' RT	X XX	FL
4	48+36.70	62.51' RT	64.23	FL
5	47+00.15	24.00' LT	56.87	EP
6	48+28.07	3.85' RT	64.97	EP
7	47+28.64	12.66' RT	58.82	EP
8	47+07.13	33.91' RT	57.09	EP
9	50+21.08	21.57' RT	76.16	EP
10	49+74.29	26.69' RT	73.30	EP
11	48+55.84	34.50' RT	66.03	EP
12	48+27.76	25.37' RT	64.53	EP
13	48+33.24	2.04' LT	65.32	EP
14	48+43.25	12.00' LT	65.72	EP
15	49+68.94	12.00' LT	73.27	EP
16	50+44.56	19.33' RT	77.53	EP
17	49+00.00	34.43' RT	68.68	EP
18	48+33.24	10.48' RT	65.15	EP
19	47+09.54	38.00' LT	-	ST
20	47+03.82	25.78' LT	-	ST
21	47+67.95	62.92' RT	-	ST
22	47+82.00	49.40' RT	-	ST
23	47+93.58	49.82' RT	-	ST
24	48+39.75	14.00' LT	-	ST
25	48+04.74	109.32' RT	61.50	FL

FUTURE CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1386.00'	445.27'	224.57'	18°24'25"
2	14.00'	20.52'	12.60'	83°58'45"
3	14.00'	22.30'	14.31'	91°15'50"
4	1312.00'	460.37'	232.58'	20°06'17"
5	475.00'	189.58'	96.07'	22°52'04"
6	1312.00'	65.40'	32.71'	02°51'22"
7	7.00'	21.08'	107.40'	172°32'32"
8	70.00'	7.64'	3.82'	06°15'12"
9	1410.00'	123.11'	61.59'	05°00'09"
10	300.00'	105.48'	53.29'	20°08'43"

FUTURE POINT DATA				
POINT NO.	STATION	OFFSET	TC ELEV.	DESC.
1	47+16.34	13.70' LT	57.88	TC
2	47+29.06	0.11' RT	58.92	TC
3	47+29.10	9.85' RT	58.72	TC
4	47+15.08	23.97' RT	57.60	TC
5	48+90.31	24.45' RT	68.13	TC
6	48+39.04	24.51' RT	65.05	TC
7	48+38.15	10.56' RT	65.28	TC
8	48+46.71	10.00' RT	65.80	TC
9	49+68.94	10.00' RT	67.14	TC

LEGEND

— SAWCUT EXISTING CURB & GUTTER AND PAVEMENT

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
ELLISON DRIVE
GEOMETRY PLAN
ELLISON DRIVE / 7 BAR LOOP (NORTH)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

DESIGNED BY BHI

DRAWN BY BHI

CHECKED BY BHI

DATE 5-95

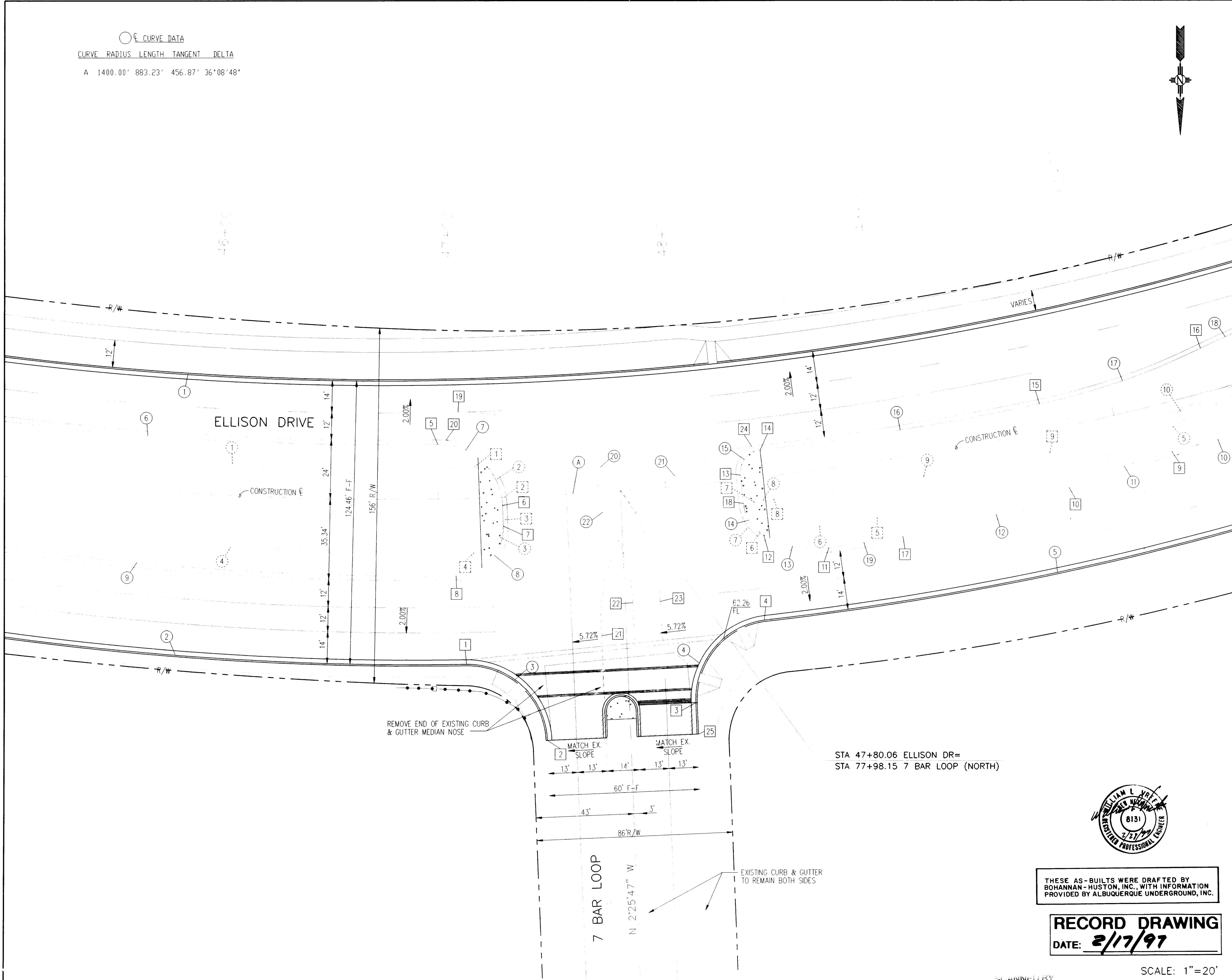
DATE 5-95

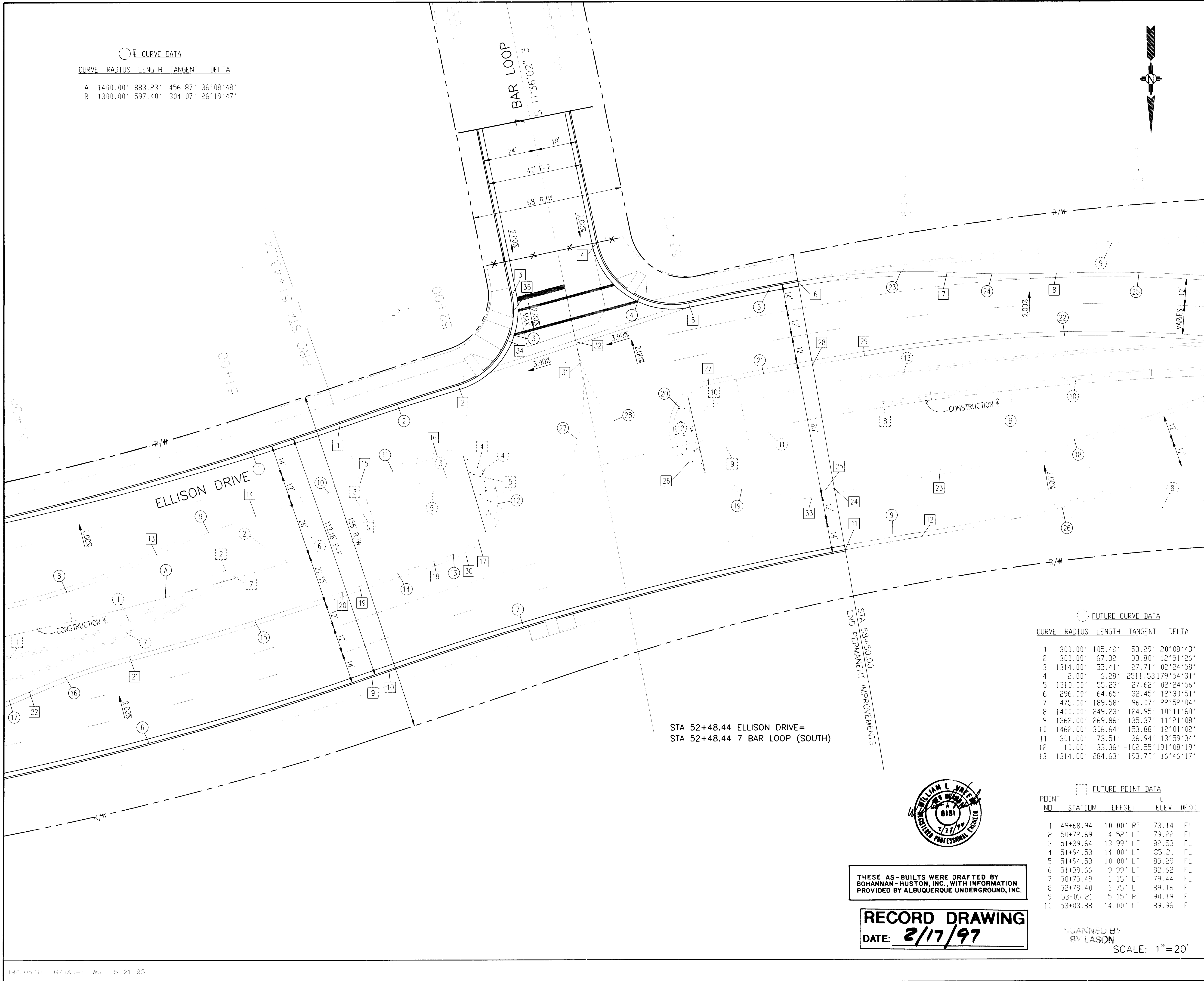
DATE 5-95

PROJECT NO. 3727.90

MAP NO. A-13

SHEET 21 OF 72





INTERIM CURVE DATA					AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CONTRACTOR	AUT	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	1348.00'	580.42'	439.30'	36°08'47"												
2	1352.00'	55.86'	27.93'	02°22'02"												
3	35.00'	51.90'	32.05'	84°57'41"												
4	35.00'	55.22'	35.24'	90°23'47"												
5	1362.00'	50.14'	25.07'	02°06'38"												
6	1350.00'	296.40'	148.80'	12°34'47"												
7	1400.00'	212.66'	106.53'	08°42'12"												
8	302.00'	75.32'	37.86'	14°17'23"												
9	298.00'	47.92'	24.01'	09°12'48"												
10	1376.00'	49.42'	24.71'	02°03'28"												
11	1324.00'	36.31'	18.16'	01°34'17"												
12	21.00'	59.44'	133.91'	162°10'28"												
13	68.05'	22.39'	11.30'	18°51'06"												
14	1440.00'	35.03'	17.52'	01°23'38"												
15	1310.00'	100.33'	50.19'	04°23'17"												
16	302.00'	48.05'	24.08'	09°06'58"												
17	298.00'	76.37'	38.40'	14°41'01"												
18	648.00'	129.20'	64.81'	11°25'26"												
19	75.00'	64.47'	34.38'	49°15'05"												
20	20.00'	44.42'	40.34'	127°15'14"												
21	1324.00'	57.17'	28.59'	02°28'26"												
22	598.00'	155.73'	78.31'	14°55'15"												
23	302.00'	67.45'	33.87'	12°47'48"												
24	598.00'	49.42'	24.72'	04°44'06"												
25	652.00'	122.70'	61.53'	10°46'57"												
26	676.00'	154.16'	77.42'	13°03'58"												
27	75.00'	110.71'	68.22'	84°34'34"												
28	90.00'	141.38'	90.01'	90°00'19"												

INTERIM POINT DATA			
POINT NO.	STATION	OFFSET	TC ELEV. DESC.
1	51+43.24	52.00' LT	82.03 TC
2	54+96.95	52.00' LT	84.64 TC
3	52+29.70	84.37' LT	87.27 TC
4	52+69.58	97.68' LT	88.41 TC
5	53+02.14	62.00' LT	89.01 TC
6	53+50.00	60.00' LT	90.89 TC
7	54+14.14	56.15' LT	93.23 EP
8	54+61.29	50.50' LT	94.83 EP
9	51+20.57	60.82' RT	80.71 EP
10	51+28.35	60.71' RT	81.12 EP
11	53+50.00	60.48' RT	90.88 EP
12	53+86.88	60.17' RT	92.31 EP
13	50+44.56	19.33' LT	77.53 EP
14	50+92.96	24.00' LT	80.10 EP
15	51+43.24	24.00' LT	82.68 EP
16	51+35.65	24.00' LT	82.30 EP
17	51+42.17	16.98' RT	82.77 EP
18	51+19.80	20.28' RT	81.57 EP
19	51+27.93	20.08' RT	82.00 EP
20	51+19.92	20.20' RT	81.58 EP
21	50+21.08	21.57' RT	76.16 EP
22	49+74.16	26.69' RT	73.29 EP
23	52+99.65	31.55' RT	89.61 EP
24	52+50.00	32.48' RT	87.50 EP
25	52+37.85	32.55' RT	86.98 EP
26	51+87.37	8.01' LT	85.15 EP
27	52+03.38	24.00' LT	89.91 EP
28	52+50.00	24.00' LT	87.67 EP
29	52+73.11	23.90' LT	88.66 EP
30	51+78.03	22.40' RT	- ST
32	52+50.63	47.03' LT	- ST
32	52+51.06	56.62' LT	- ST
33	53+39.22	34.53' LT	- ST
34	52+22.78	65.15' LT	85.76 TC
35	52+28.54	77.15' LT	85.96 TC

FUTURE CURVE DATA			
CURVE	RADIUS	LENGTH	TANGENT
1	300.00'	105.48'	53.29'
2	300.00'	67.32'	33.80'
3	1314.00'	55.41'	27.71'
4	2.00'	6.28'	2511.53'
5	1310.00'	55.23'	27.62'
6	296.00'	64.65'	32.45'
7	475.00'	189.58'	96.07'
8	1400.00'	249.23'	124.95'
9	1362.00'	269.86'	135.37'
10	1462.00'	306.64'	153.88'
11	301.00'	73.51'	36.94'
12	10.00'	33.36'	-102.55'
13	1314.00'	284.63'	193.70'

FUTURE POINT DATA			
POINT NO.	STATION	OFFSET	TC ELEV. DESC.
1	49+68.94	10.00' RT	73.14 FL
2	50+72.69	4.52' LT	79.22 FL
3	51+39.64	13.99' LT	82.53 FL
4	51+94.53	14.00' LT	85.21 FL
5	51+94.53	10.00' LT	85.29 FL
6	51+39.66	9.99' LT	82.62 FL
7	50+75.49	1.15' LT	79.44 FL
8	52+78.40	1.75' LT	89.16 FL
9	53+05.21	5.15' RT	90.19 FL
10	53+03.88	14.00' LT	89.96 FL

AS BUILT INFORMATION			
CONTRACTOR	AUT	DATE	BY
BOHANNAN-HUSTON, INC.	2/17/97	2/17/97	2/17/97

BENCH MARKS			
CONTRACTOR	AUT	DATE	BY
BOHANNAN-HUSTON, INC.	2/17/97	2/17/97	2/17/97

SURVEY INFORMATION			
FIELD NOTES	DATE	BY	NO.
ACS "3-A13" - A 3" HUGG BRASS CAP STAMPED "PT 81, 1980, 3-A-13", SET IN CONCRETE LOCATED 0.33 MILES SOUTH OF THE SANDOVAL CO. / BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT. SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF STATE ROAD 528 AND 33.5 FT. EAST OF THE EAST RIGHT-OF-WAY FENCE OF BLACKS CHANNEL	2/17/97	2/17/97	2/17/97

ENGINEER'S SEAL			
REMARKS	REVISIONS	DESIGN	DATE
DESIGNED BY BHI	DATE 3-95		
DRAWN BY BHI	DATE 3-95		
CHECKED BY BHI	DATE 3-95		

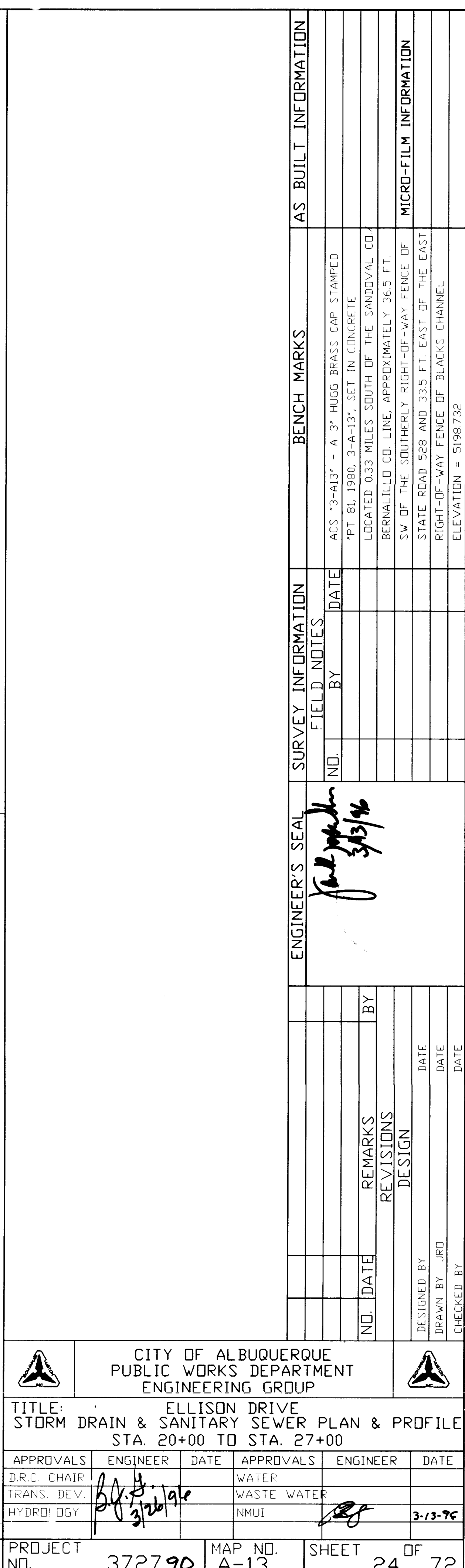
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: ELLISON DRIVE GEOMETRY PLAN ELLISON DRIVE / 7 BAR LOOP (SOUTH)							
APPROVALS		ENGINEER		DATE		APPROVALS	
D.R.C. CHAIR		DATE		DATE		DATE	
TRANS. DEV.		DATE		DATE		DATE	
HYDROLOGY		DATE		DATE		DATE	

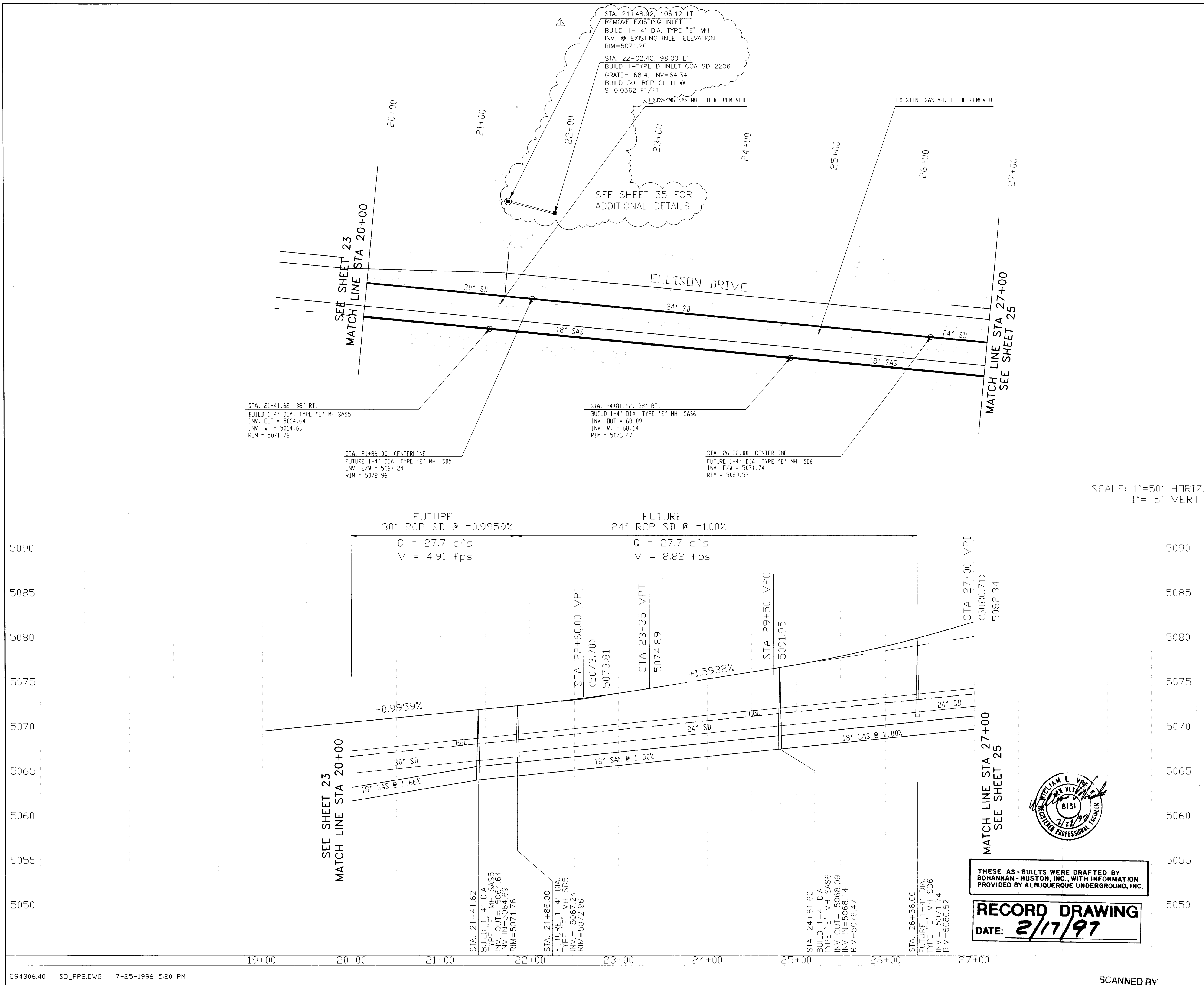
PROJECT NO.	3727.90	MAP NO.	A-13	SHEET	22	OF	72
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ELLISON



SHEET 23 OF 72





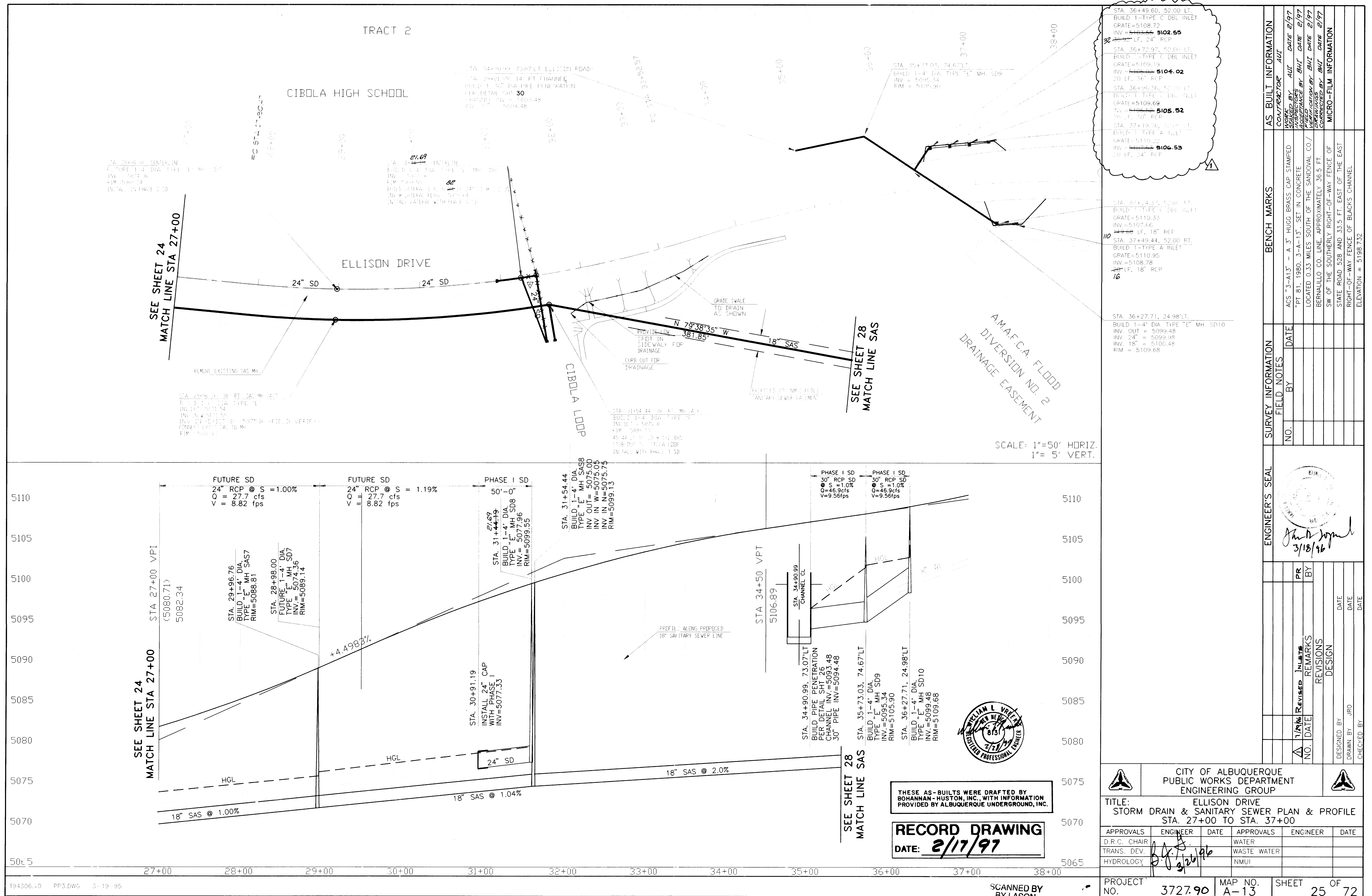
SCALE: 1"=50' HORIZ.
1"= 5' VERT.

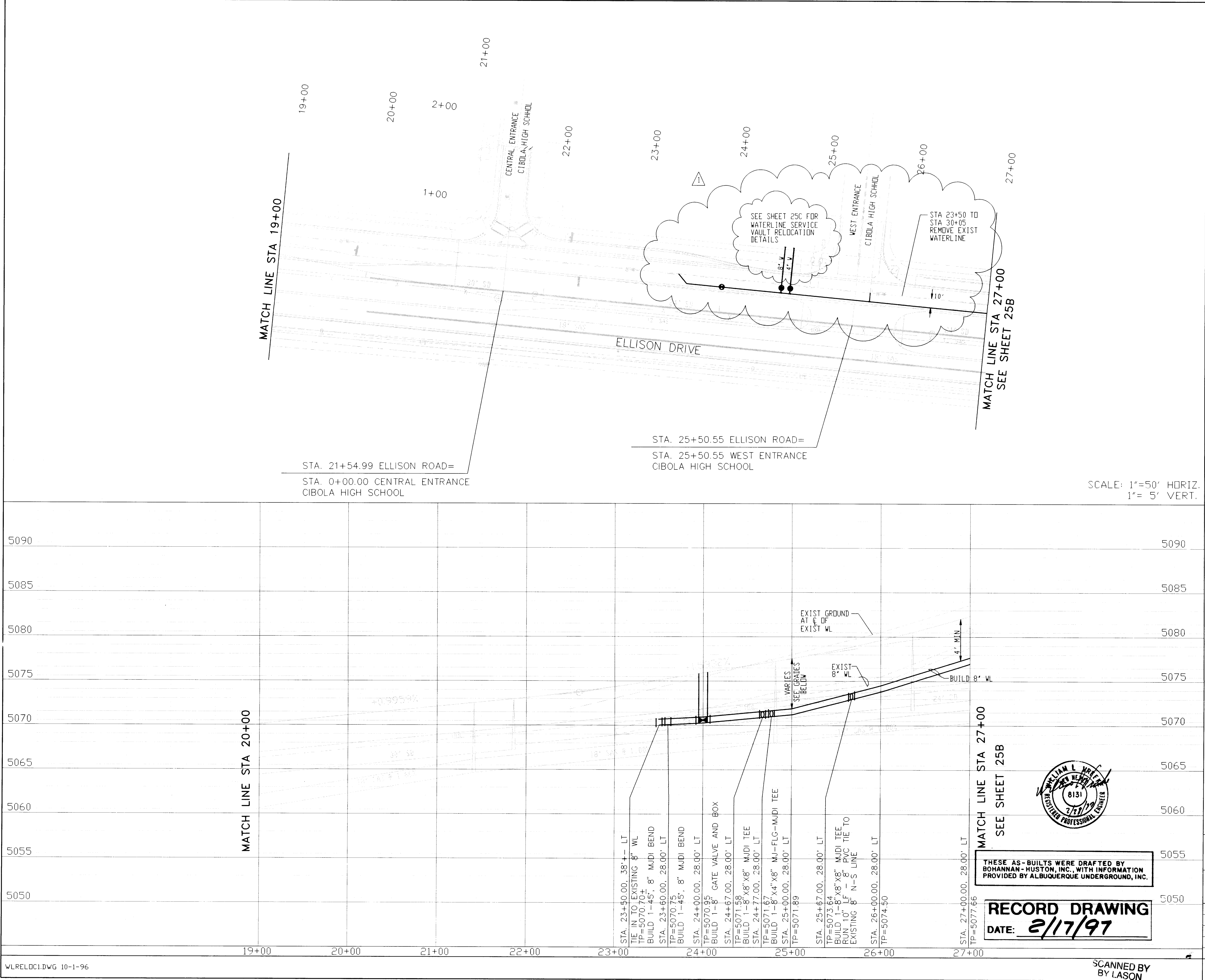


THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

						CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP																	
TITLE: ELLISON DRIVE STORM DRAIN & SANITARY SEWER PLAN & PROFILE STA. 20+00 TO STA. 27+00																							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE																		
D.R.C. CHAIR			WATER																				
TRANS. DEV.			WASTE WATER																				
HYDROLOGY			NMUI																				





GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE PER NMUI SPECS AND STANDARDS.
- USE TYLER SLIP TYPE 5 1/4" CAST IRON VALVE CANS FOR ALL NEW VALVE INSTALLATIONS.

CONSTRUCTION SEQUENCE

- BUILD 8" PVC WATERLINE FROM STA 26+20.00 TO STA 30+05.00. DEFER TIE INS UNTIL STEP 4.
- BUILD 8" WATERLINE CROSSING OF THE WEST ENTRANCE FROM STA 24+85.00 TO STA 26+20.00. BACKFILL & COMPACT OVER PIPE TO SUBGRADE. REPAIR TEMPORARY PAVEMENT AND REOPEN TO TRAFFIC.
- ALL WORK EXCEPT TIE INS TO THE EXISTING WATERLINE WILL BE DONE IN THIS STEP. THE CONTRACTOR SHALL BUILD AS MUCH OF THE RELOCATED WATERLINE AND SERVICE VAULTS TO FACILITATE A RAPID TIE IN DESCRIBED IN STEP 4.
- TIE IN TO THE EXISTING WATERLINES WITHIN ELLISON AND AT THE SERVICES TO CIBOLA HIGH SCHOOL SHALL BE DONE DURING A WEEKEND PERIOD.

WORK IN STEP 2 MUST BE DONE WITHIN THE WEEKEND PERIOD; AFTER SCHOOL ON A FRIDAY TO SUNDAY EVENING. ENTRANCE MUST BE OPEN BEFORE MONDAY AM. NO EXCEPTIONS! WEEKEND TRAFFIC MUST USE THE CENTRAL ENTRANCE. NO CONSTRUCTION IS ALLOWED ON THE CENTRAL ENTRANCE DURING THIS PERIOD.

CONTACT SAL WAR AT APS MAINTENANCE AT (765-5950) AND BOB GAY AT NMUI (898-2611) TO COORDINATE TIE INS SHUT OFFS, AND SCHOOL EQUIPMENT SHUTDOWNS AS REQUIRED. CONTACT BOTH A MINIMUM OF 5 WORKING DAYS PRIOR TO THE TIE IN WEEKEND. APS MAINTENANCE WILL NEED TO ISOLATE THE SCHOOL WATER SERVICES; FLUSH ALL EQUIPMENT OF AIR AND OPERATE ANY OTHER EQUIPMENT AS APPROPRIATE. WATER MUST BE RESTORED TO THE SCHOOL BEFORE MONDAY MORNING ON THE WEEK THE TIE INS ARE DONE.

THE CONTRACTOR SHALL REMOVE THE EXISTING WATERLINE FROM STA 23+50.00 TO STA 30+05.00 AFTER THE RELOCATED LINE IS PUT IN SERVICE. THE WEST ENTRANCE SHALL REMAIN OPEN DURING WEEKDAY PERIODS. THE CENTRAL ENTRANCE SHALL REMAIN OPEN WHEN THE WEST ENTRANCE IS CLOSED DURING THE TIE IN WEEKEND.

AS BUILT INFORMATION

CONTRACTOR	ALC
WORK STARTED BY	ALC
DATE	2/97
FIELD ACCEPTANCE BY BHI	DATE 2/97
FIELD CORRECTIONS BY BHI	DATE 2/97
REVISIONS	
DESIGNED BY BHI	DATE 10/1/96
DRAWN BY BHI	DATE 10/1/96
CHECKED BY BHI	DATE 10/1/96

ENGINEER'S SEAL

10/1/96

ADDED THIS SHEET

NO.

DATE

REMARKS

REVISIONS

DESIGN

DESIGNED BY BHI

DRAWN BY BHI

CHECKED BY BHI

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ELLISON DRIVE
WATERLINE RELOCATION PLAN & PROFILE
STA. 20+00 TO STA. 27+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

PROJECT NO. 3727

MAP NO. A-13

SHEET 25A OF 72

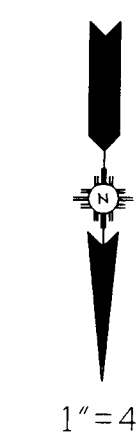
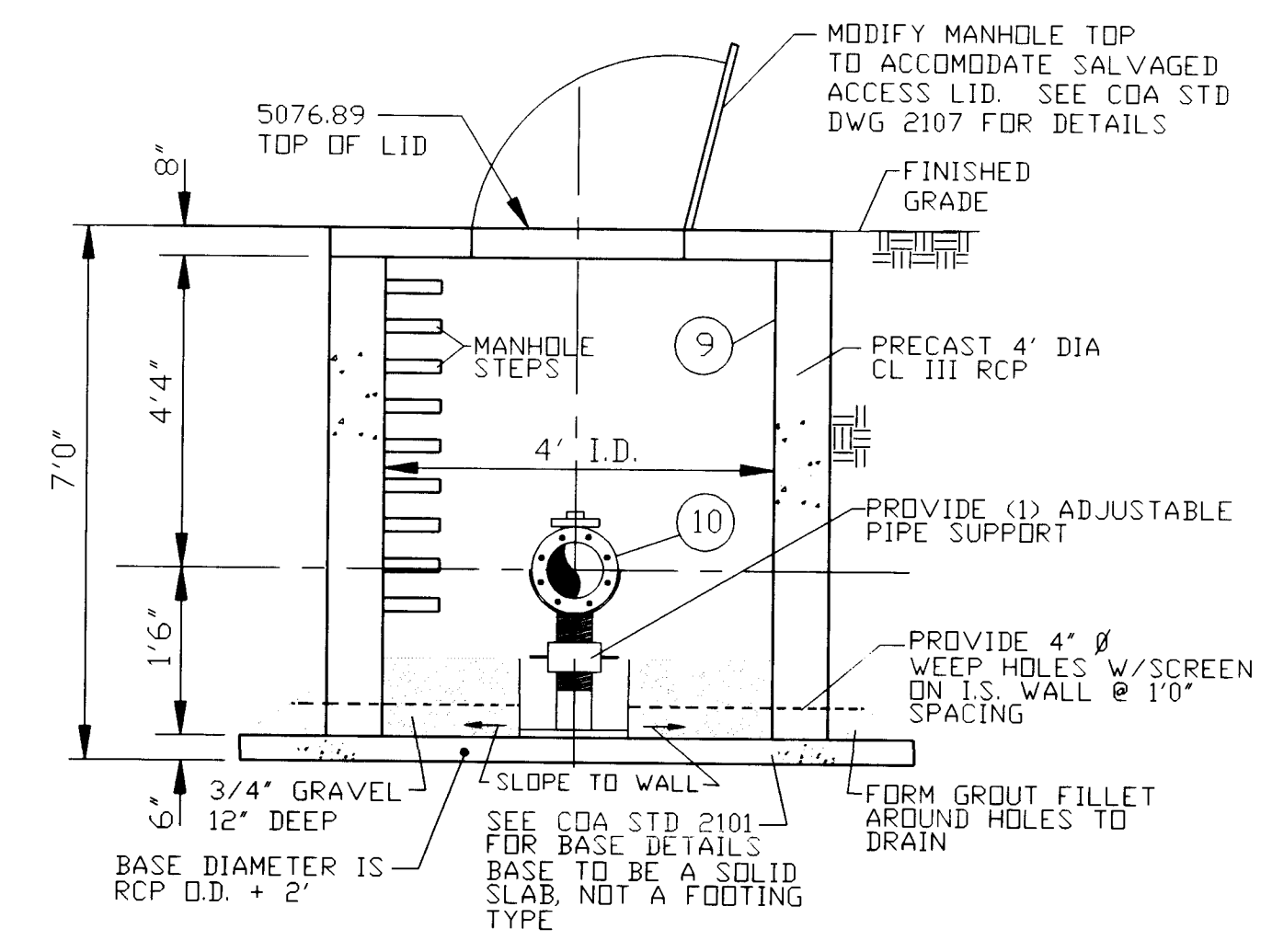
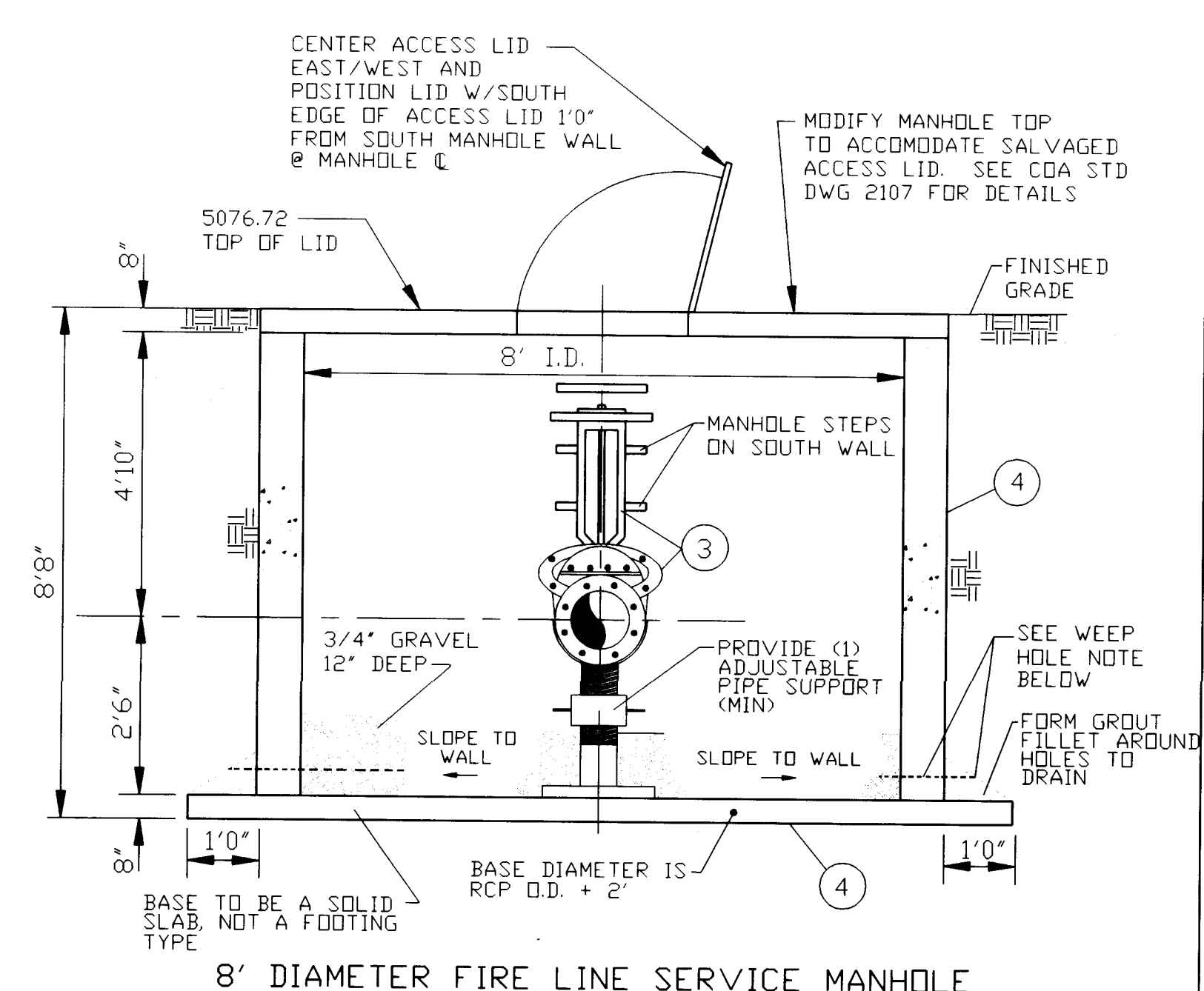
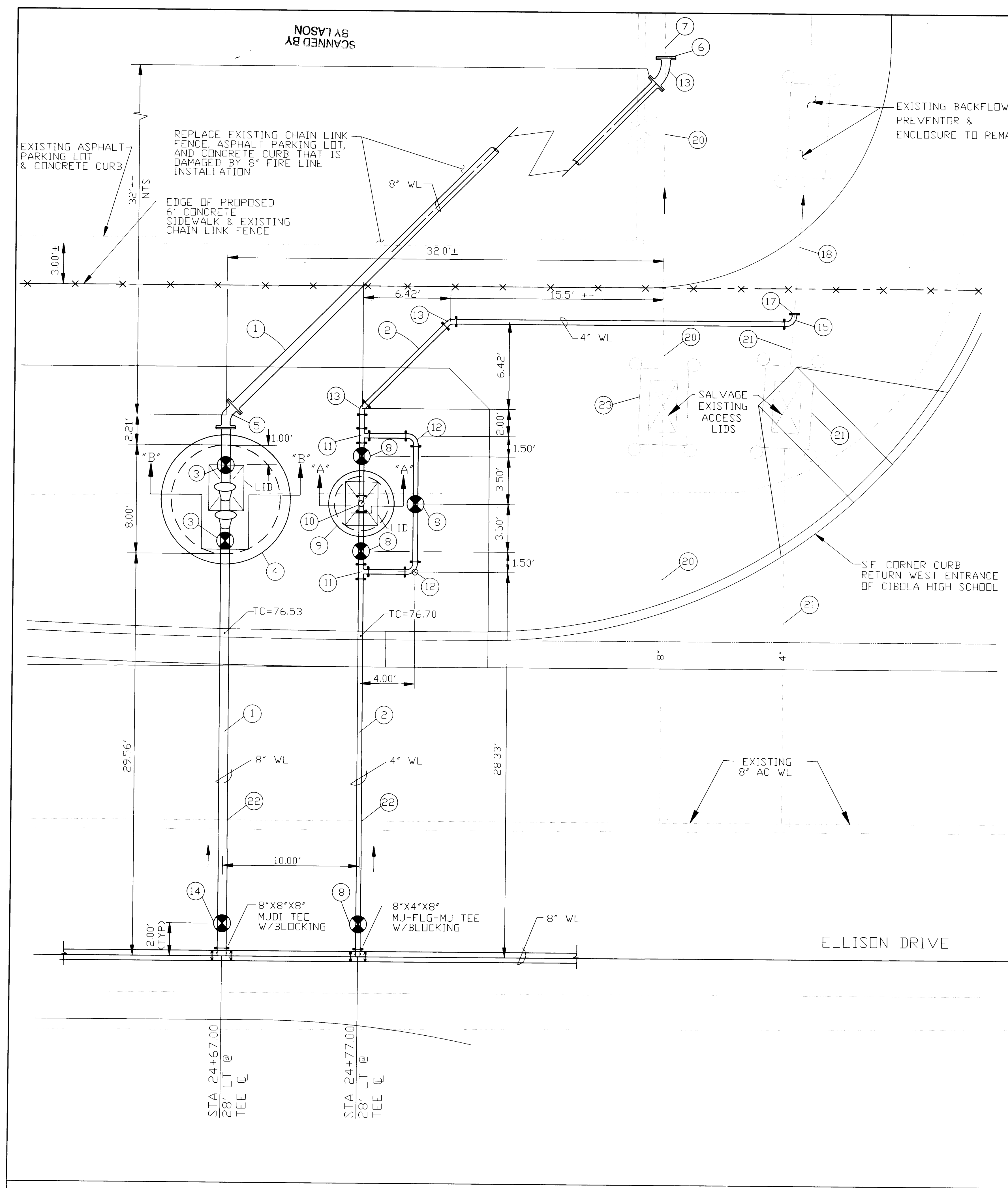
RECORD DRAWING

DATE: 2/17/97

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

WILLIAM L. HUSTON
8131
2/17/97
REGISTERED PROFESSIONAL ENGINEER

SCANNED BY LASON



THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC. WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: **2/17/97**

- NOTE:
1. PROVIDE CONCRETE THRUST BLOCKING AT ALL ELBOWS AND FITTINGS.
 2. PROVIDE A MINIMUM OF 4' OF COVER EXCEPT AT TIE IN LOCATIONS SHOWN AT NOTES 15 & 16.

KEYED NOTES:

1. BUILD 8" PVC (FIRE) WATER SERVICE.
2. BUILD 4" DUCTILE IRON (FLANGED) (DOMESTIC) WATER SERVICE. UNFLANGED CONNECTIONS ARE PERMITTED FOR THE ENTIRE SERVICE.
3. BUILD 8" DOUBLE CHECK VALVE BACKFLOW PREVENTOR ASSEMBLY, COMPLETE WITH SHUTOFF VALVES, PER NMUI SPECS.
4. BUILD 8" DIA REINFORCED CONCRETE PRECAST MANHOLE & BASE PER COA STD SPECS, SECTION 920.4.2. SEE DETAIL THIS SHEET. REUSE ACCESS DOORS FROM EXISTING FIRE PROTECTION SERVICE VAULT.
5. INSTALL 1-8"-45° MJDI BEND W/BLOCKING.
6. CONNECT TO EXISTING 8" FIRE LINE WATER SERVICE. SEE SEQUENCE OF CONSTRUCTION, SHEET 25A.
7. EXISTING 8" FIRE LINE TO REMAIN.
8. INSTALL 4" GATE VALVE W/VALVE CAN, PER NMUI SPECS.
9. BUILD 4" METER VAULT. VAULT IS COA TYPE "C" MANHOLE W/REUSED LID FROM TOP OF EXISTING DOMESTIC SERVICE VAULT.
10. INSTALL 4" DOMESTIC METER PER NMUI SPECS. (NMUI SUPPLYS METER)
11. INSTALL 1-4"x4"x4" FLGDI TEE, W/BLOCKING.
12. INSTALL 1-4"-90° BEND FLGDI W/BLOCKING.
13. INSTALL 1-4"-45° BEND FLGDI W/BLOCKING.
14. INSTALL 8" GATE VALVE W/VALVE CAN, PER NMUI SPECS.
15. INSTALL 1-4"-90° BEND FLGDI W/BLOCKING.
16. INSTALL 1-8"-90° BEND MJDI W/BLOCKING.
17. CONNECT TO EXISTING 4" DOMESTIC WATER SERVICE. SEE SHEET 25A FOR CONSTRUCTION SEQUENCE.
18. EXISTING 4" WATER SERVICE TO REMAIN.
19. REMOVE EXISTING CONCRETE VAULT (8" FIRE SERVICE).
20. REMOVE EXISTING 8" SERVICE LINE (FIRE).
21. REMOVE EXISTING 4" SERVICE LINE (DOMESTIC).
22. PROVIDE A MINIMUM OF 1' BETWEEN TOPS OF NEW 4" & NEW 8" LINES & THE BOTTOM OF THE EXISTING 8" AC LINE. THE CONTRACTOR SHALL EXERCISE EXTREME IN CROSSING UNDER THE EXISTING 8" AC WATER LINE, AND PROTECTING THE INTEGRITY OF THE JOINTS OF THE 8" AC WATER LINE. THE 8" AC WATER LINE SHALL BE KEPT IN SERVICE DURING THE CONSTRUCTION OF THE NEW SERVICES.
23. REMOVE EXISTING CONCRETE VAULT (4" DOMESTIC WATER SERVICE)

AS BUILT INFORMATION

Contractor: ALI
 Checked by: ALI
 Date: 2/97
 Drawn by: BHI
 Date: 2/97
 Checked by: BHI
 Date: 2/97
 Micro-film information

BENCH MARKS

ACS "3-A13" - A 3" HUGG BRASS CAP STAMPED "PT 81, 1980, 3-A-13". SET IN CONCRETE LOCATED 0.33 MILES SOUTH OF THE SANDOVAL CO. BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT. SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF STATE ROAD 528 AND 335 FT. EAST OF THE EAST RIGHT-OF-WAY FENCE OF BLACKS CHANNEL
 ELEVATION = 5198.732

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

ENGINEER'S SEAL

TO

BY

DATE

10/1/96

10/1/96

10/1/96

REVISIONS

NO. DATE

DESIGNED BY: BHI

DRAWN BY: BHI

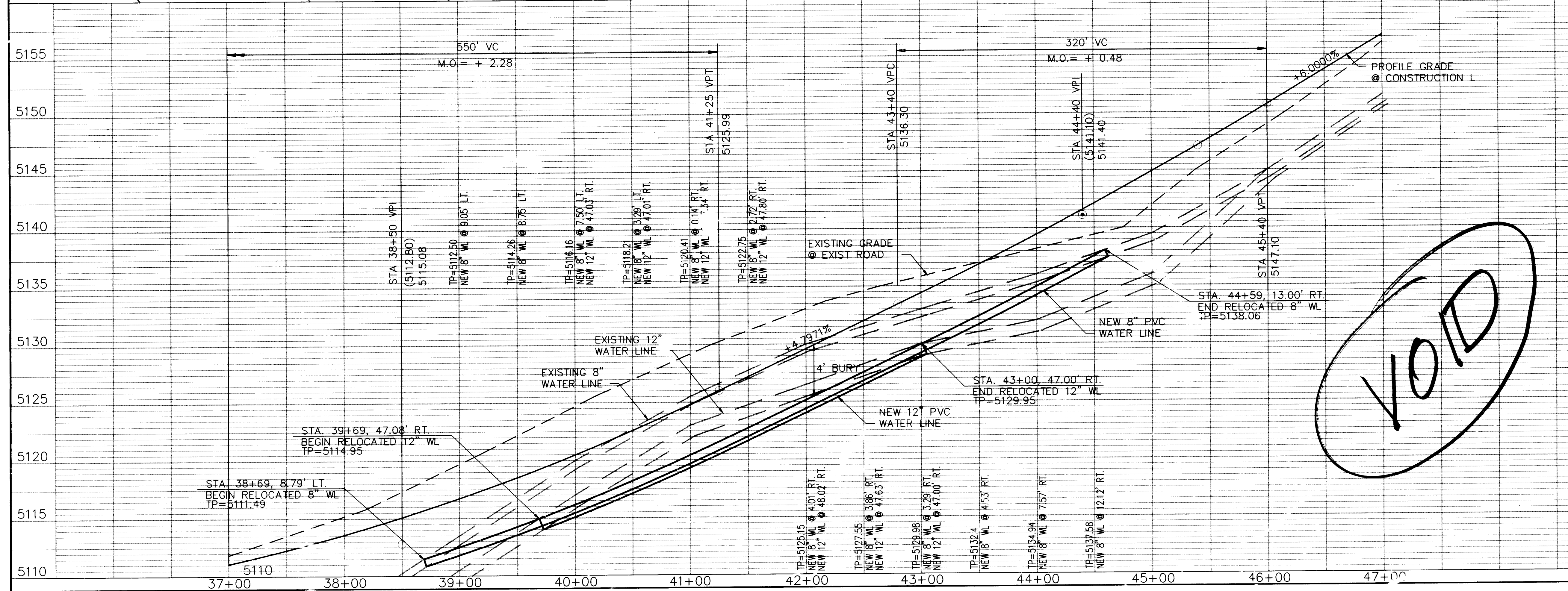
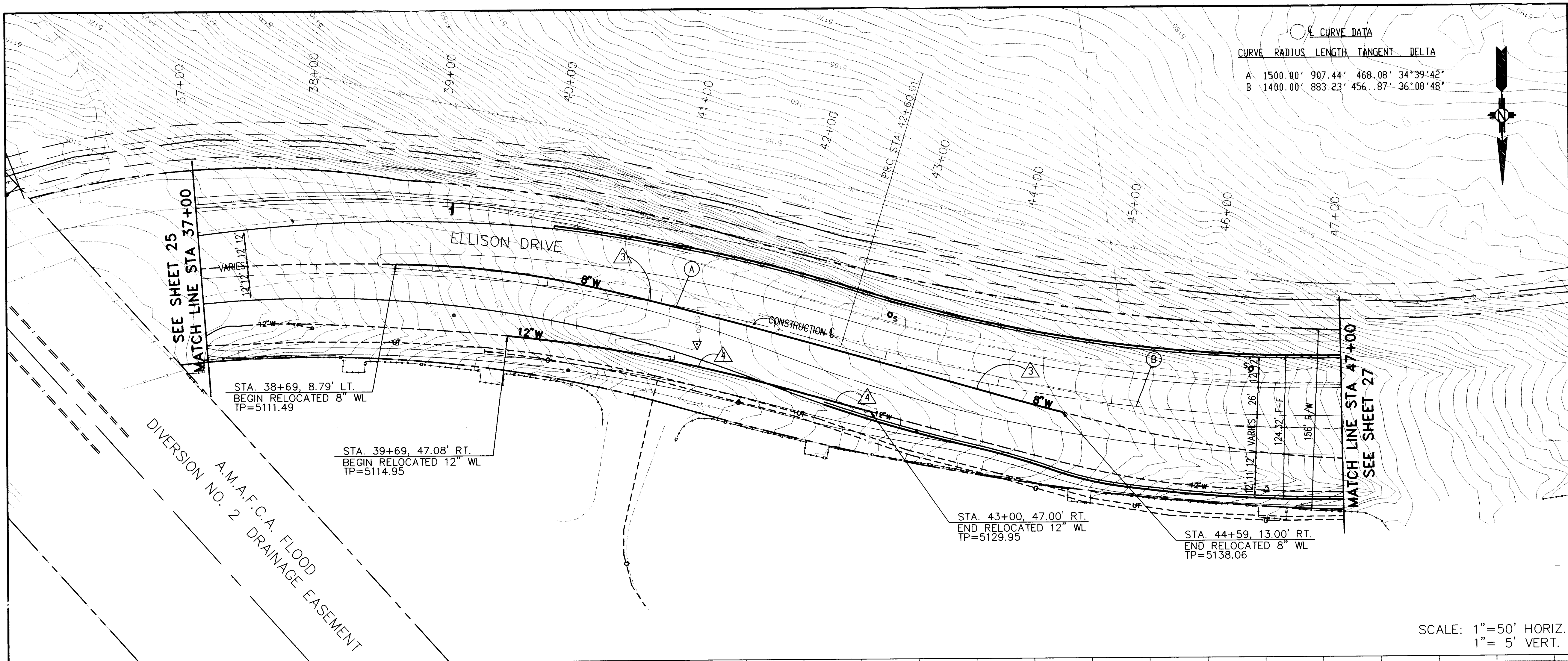
CHECKED BY: BHI

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **ELLISON DRIVE
WATER SERVICE TO CIBOLA HIGH SCHOOL
PLAN AND DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

PROJECT NO. **3727** MAP NO. **A-13** SHEET **25C** OF **72**



KEYED BUILD NOTES

- PRIOR TO WATERLINE RELOCATION, THE CONTRACTOR SHALL POTHOLE THE HORIZONTAL AND VERTICAL LOCATIONS OF THE 8" AND 12" WATERLINES, AND PROVIDE THIS DATA TO THE ENGINEER.
- AT NO TIME DURING CONSTRUCTION SHALL BOTH THE 8" AND 12" WATERLINES BE OUT OF SERVICE AT THE SAME TIME.
- RELOCATE 8" WL IN THE EXTENTS SHOWN AT THE NEW GRADES PROVIDED WITH NEW NEW MATERIAL INCLUDING PIPE, VALVES VALVE CANS, BLOCKING, TEES & LATERALS. REMOVE AND DISPOSE OF EXISTING 8" WL.
- RELOCATE 12" WL IN THE EXTENTS SHOWN AT THE NEW GRADES PROVIDED WITH NEW NEW MATERIAL INCLUDING PIPE, VALVES VALVE CANS, BLOCKING, TEES & LATERALS. REMOVE AND DISPOSE OF EXISTING 12" WL. CONNECTIONS TO EXISTING 12" PERMASTRAND WATERLINE MUST BE MADE AT THE JOINTS. NEW 12" WL TO BE CLASS 200 PVC. CONTRACTOR SHALL USE A BYPASS TO MAINTAIN CONTINUOUS SERVICE.

AS BUILT INFORMATION		BENCH MARKS	
NO.	DATE	NO.	DATE

ENGINEER'S SEAL

[Signature] 3/13/96

REVISIONS	
NO.	DATE

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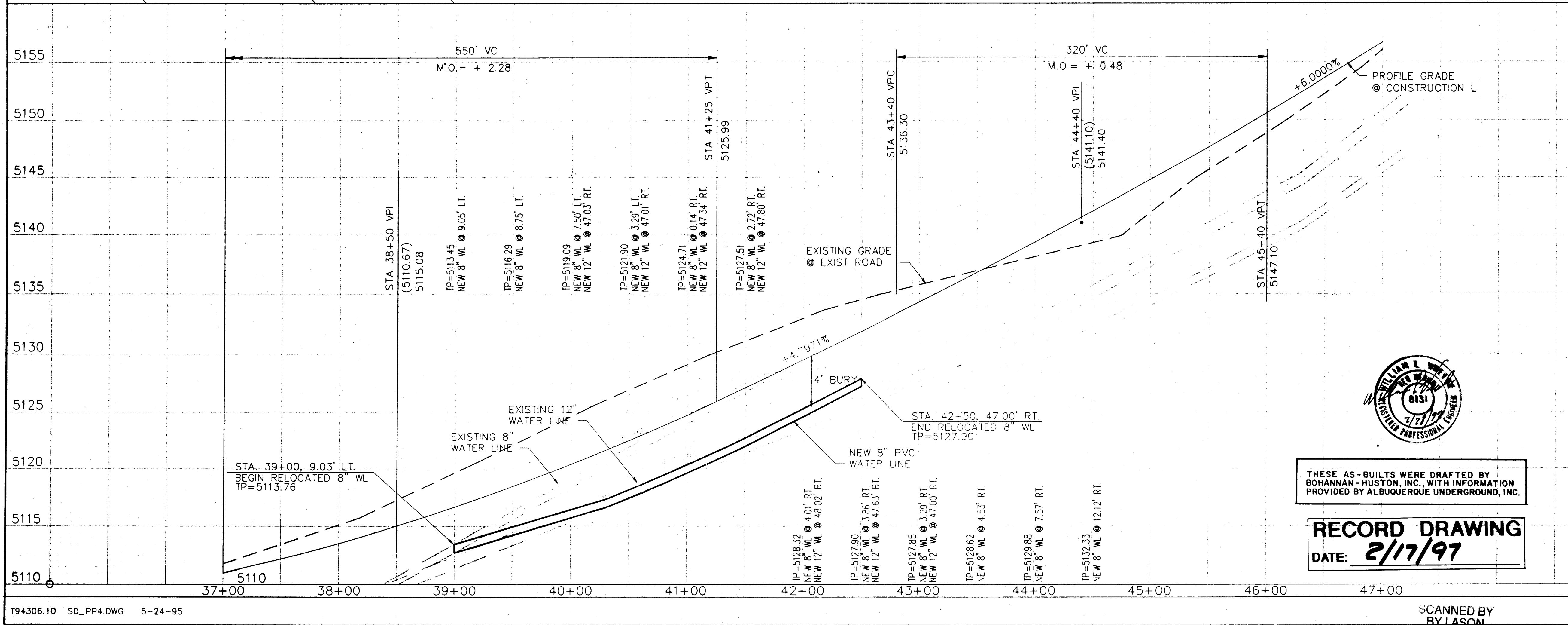
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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: ELLISON DRIVE
WATERLINE RELOCATION PLAN & PROFILE
STA. 37+00 TO STA. 47+00**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR	<i>[Signature]</i>	3-13-96	WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		3-13-96
			AMAFCA		

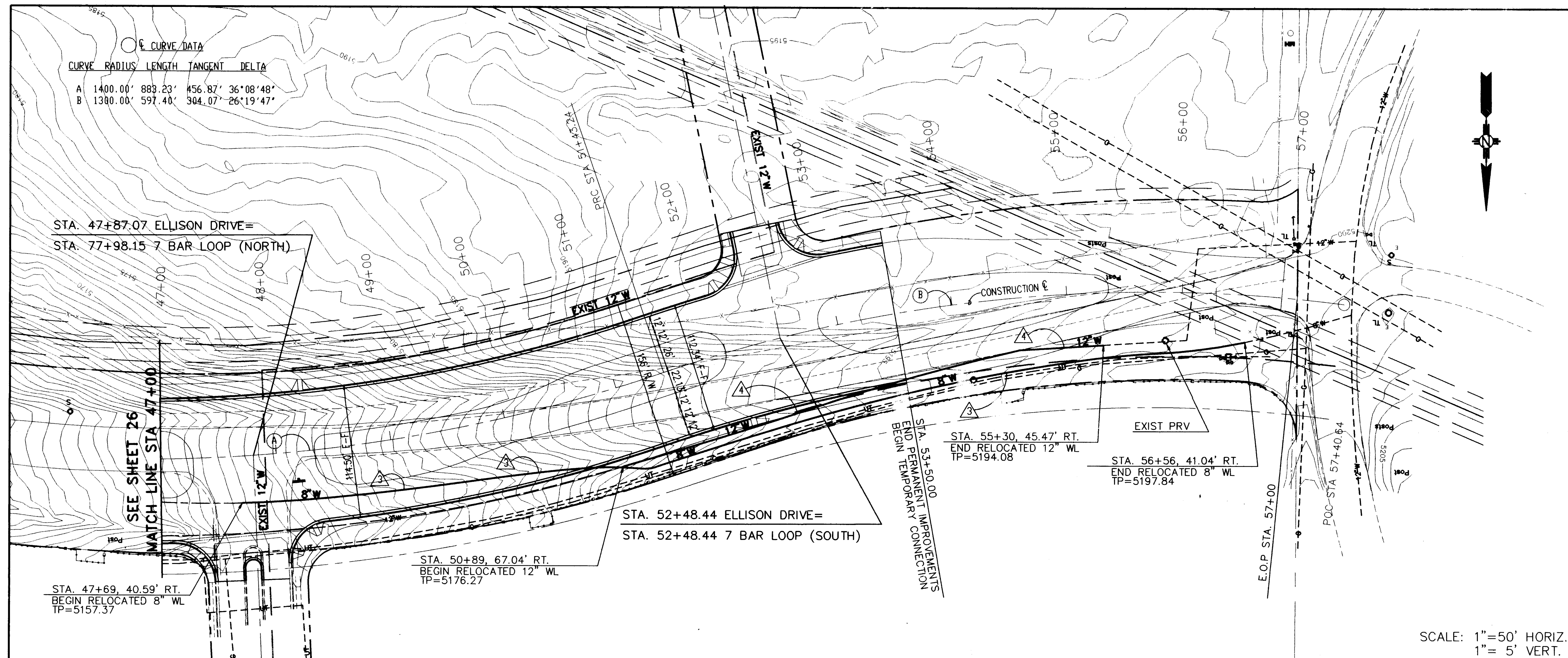
PROJECT NO.	3727.90	MAP NO.	A-13	SHEET	26	OF	72
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PROJECT NO.	3727	MAP NO.	A-13	SHEET	26	OF	72
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RECORD DRAWING
DATE: **2/17/97**

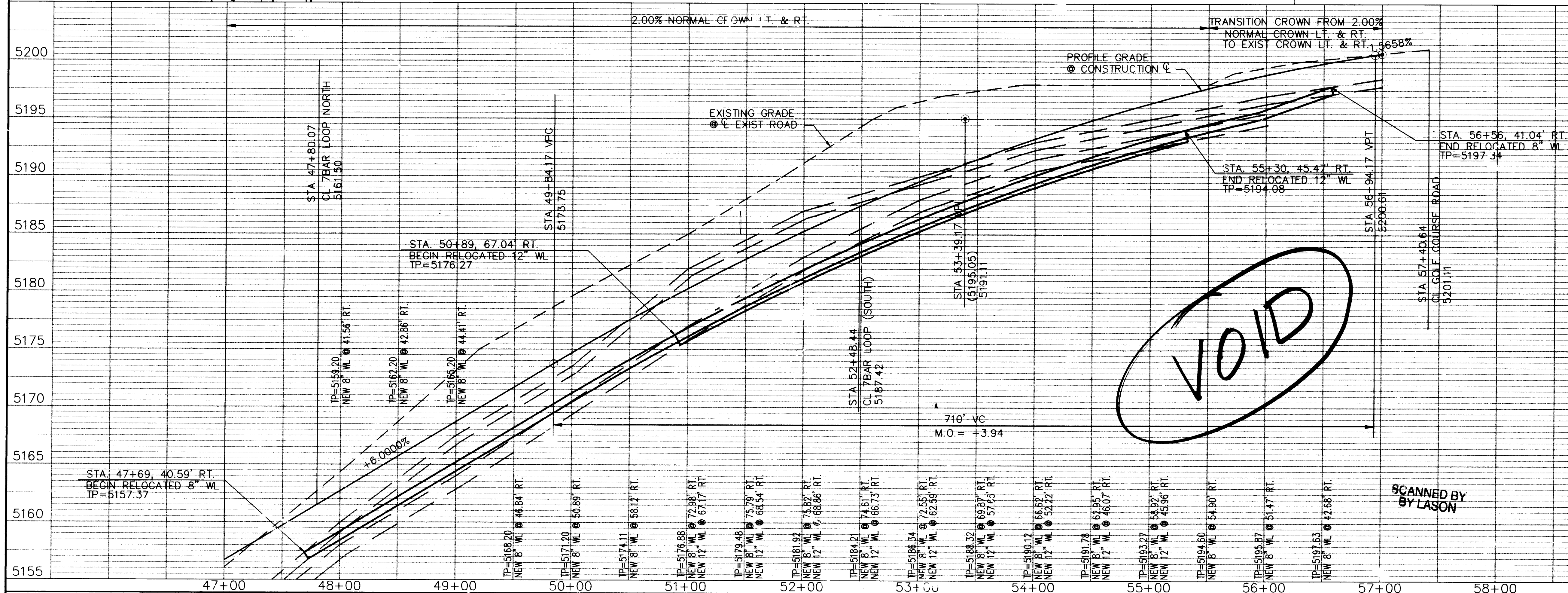
SCANNED BY
BY LASON



KEYED BUILD NOTES	
1	PRIOR TO WATERLINE RELOCATION, THE CONTRACTOR SHALL POTHOLE THE HORIZONTAL AND VERTICAL LOCATIONS OF THE 8" AND 12" WATERLINES, AND PROVIDE THIS DATA TO THE ENGINEER.
2	AT NO TIME DURING CONSTRUCTION SHALL BOTH THE 8" AND 12" WATERLINES BE OUT OF SERVICE AT THE SAME TIME.
3	RELOCATE 8" WL IN THE EXTENTS SHOWN AT THE NEW GRADES PROVIDED WITH NEW MATERIAL INCLUDING PIPE, VALVES, VALVE CANS, BLOCKING, TEES & LATERALS. REMOVE AND DISPOSE OF EXISTING 8" WL. CONTRACTOR SHALL USE A BYPASS TO MAINTAIN CONTINUOUS SERVICE.
4	RELOCATE 12" WL IN THE EXTENTS SHOWN AT THE NEW GRADES PROVIDED WITH NEW MATERIAL INCLUDING PIPE, VALVES, VALVE CANS, BLOCKING, TEES & LATERALS. REMOVE AND DISPOSE OF EXISTING 12" WL. CONNECTIONS TO EXISTING 12" PERMASTRAND WATERLINE MUST BE MADE AT THE JOINTS. NEW 12" WL TO BE CLASS 200 PVC. CONTRACTOR SHALL USE A BYPASS TO MAINTAIN CONTINUOUS SERVICE.

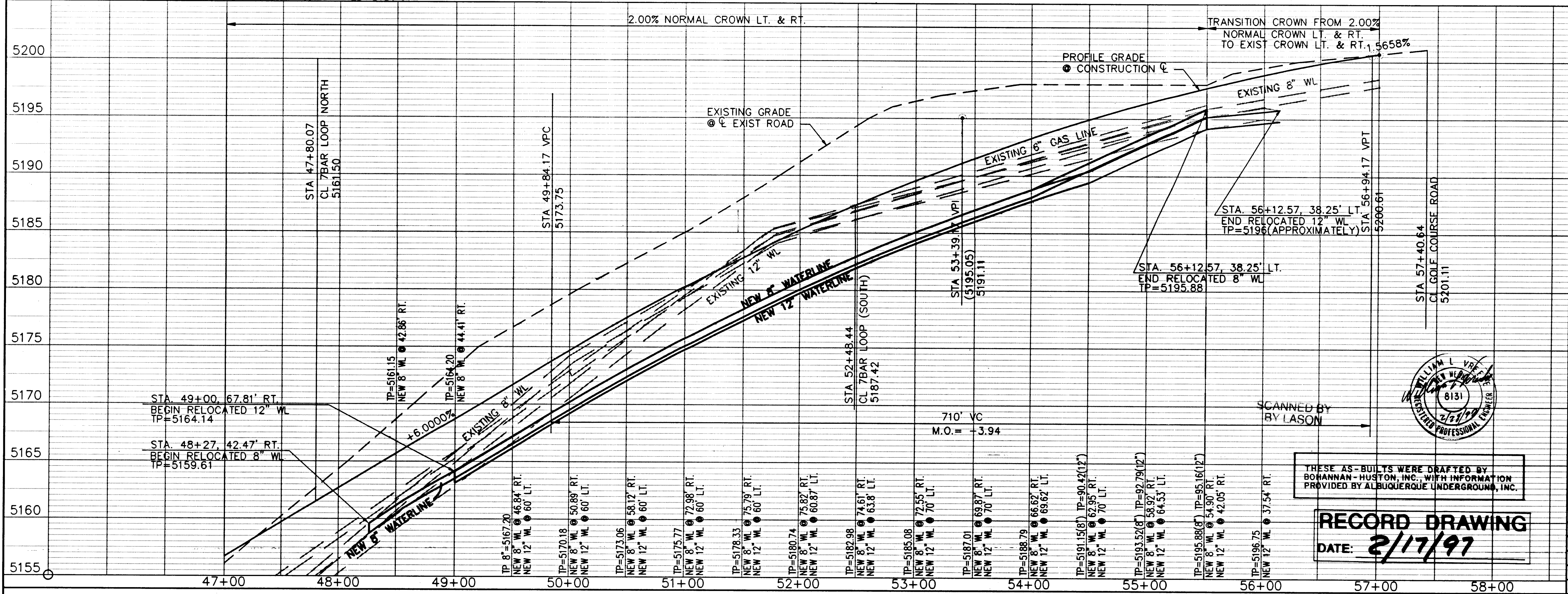
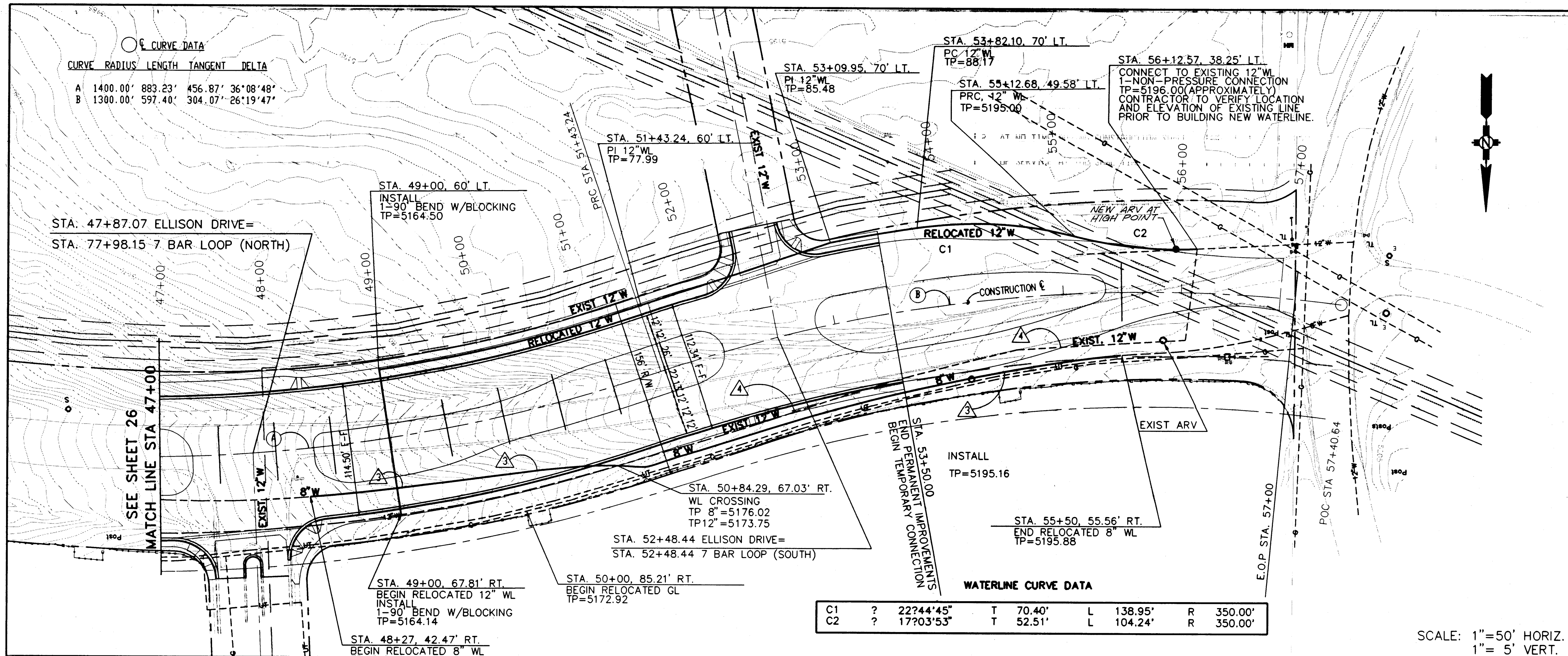
BENCH MARKS	
ACS "3-A13" - A 3" HUGG BRASS CAP STAMPED	DATE
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RIGHT-OF-WAY FENCE OF BLACKS CHANNEL	
ELEVATION = 5198.732	

SURVEY INFORMATION	
FIELD NO.	DATE
BY	



ENGINEER'S SEAL	
NO.	DATE
REMARKS	BY
DESIGN	
DESIGNED BY BHI	DATE 5-95
DRAWN BY BHI	DATE 5-95
CHECKED BY BHI	DATE 5-95

TITLE: ELLISON DRIVE WATERLINE RELOCATION PLAN & PROFILE STA. 47+00 TO E.O.P.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		
PROJECT NO.	4193-93	MAP NO.	A-13	SHEET	27 OF 72
3727.90					



REVISIONS

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1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
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DESIGNED BY BHI
DRAWN BY BHI
CHECKED BY BHI

DATE 5-95
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REVISIONS

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3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

NO.	DATE	REVISIONS
1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

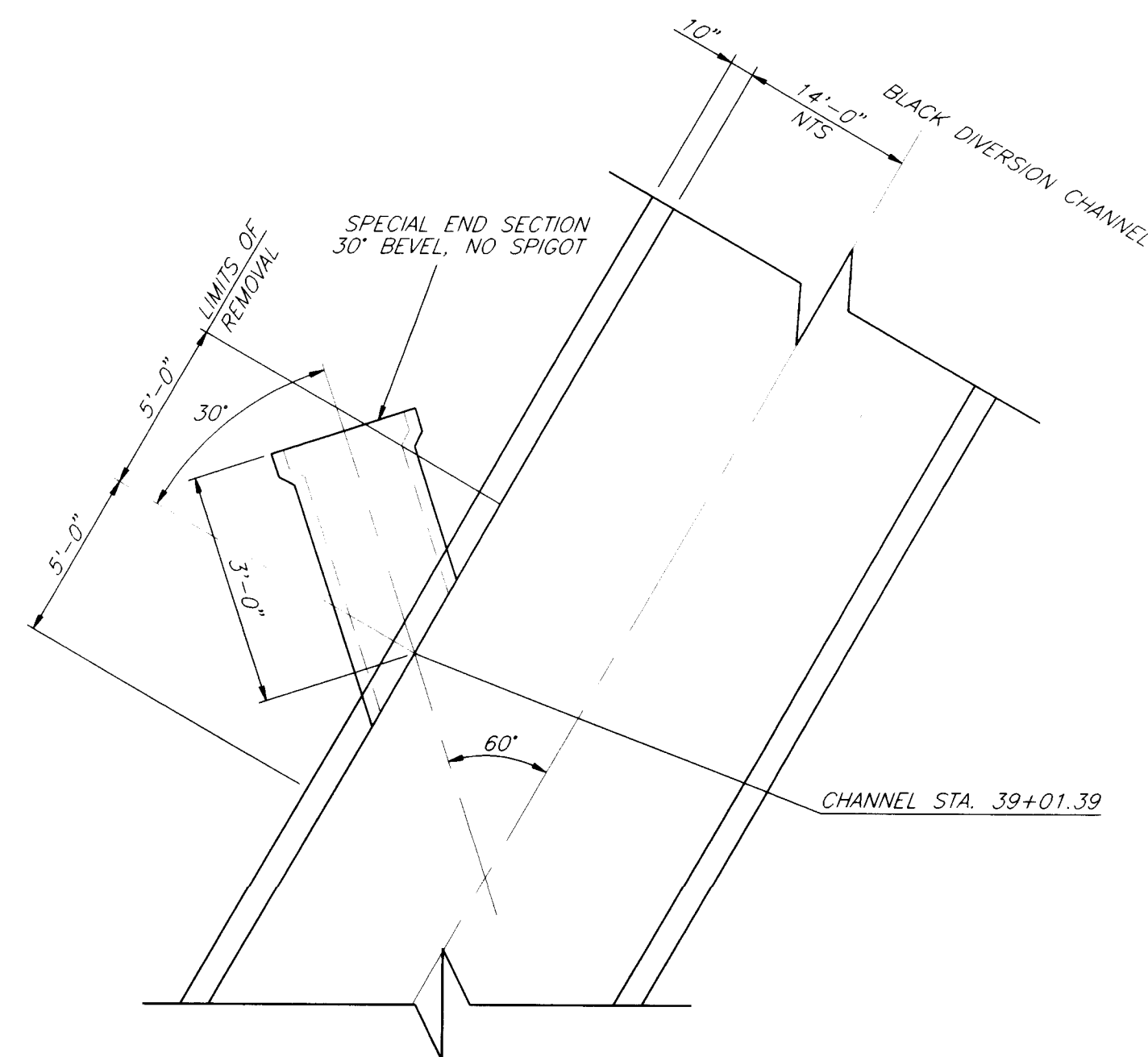
NO.	DATE	REVISIONS
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2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

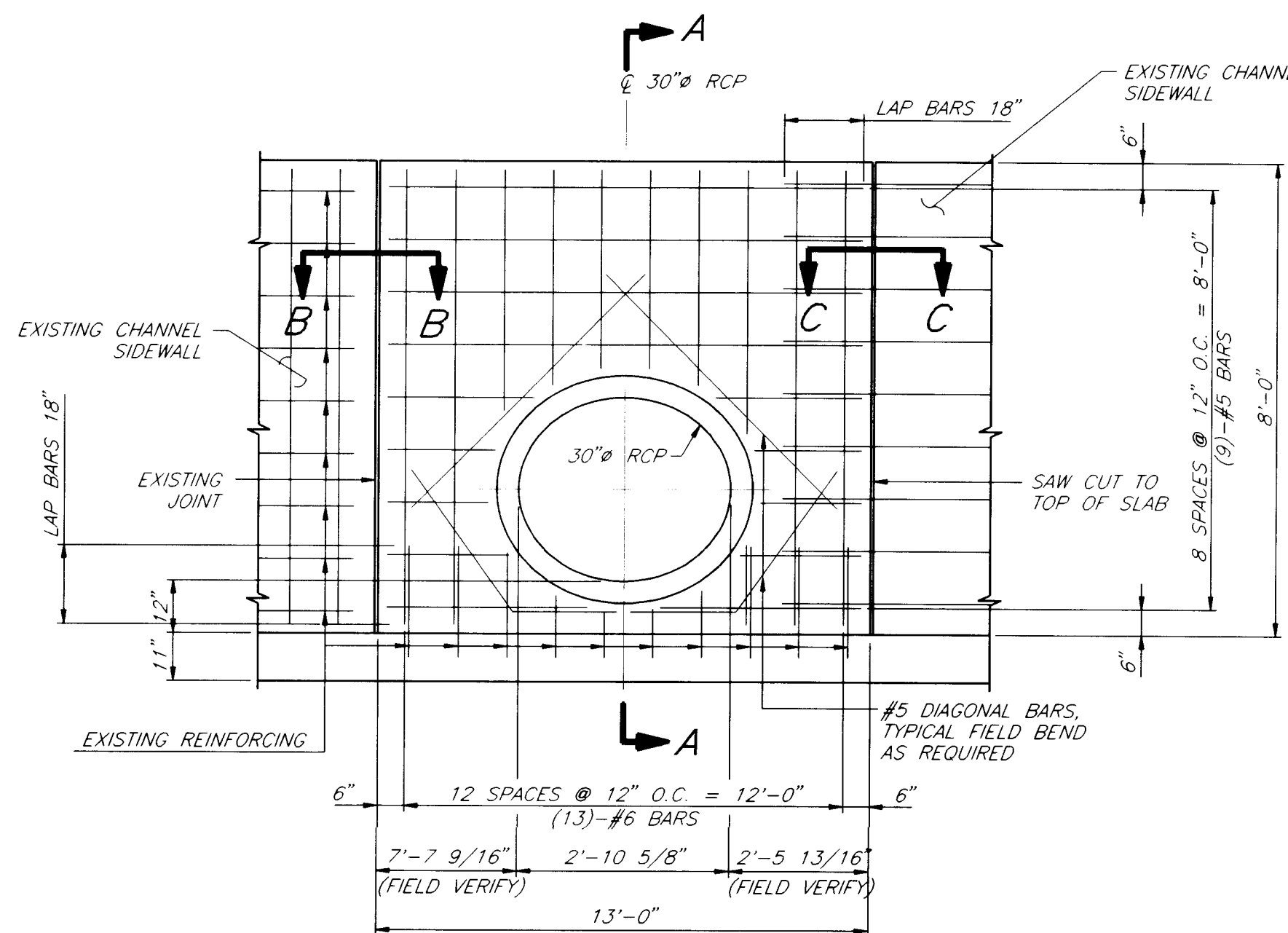
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2	2-17-97	REVISIONS
3		DESIGN

REVISIONS

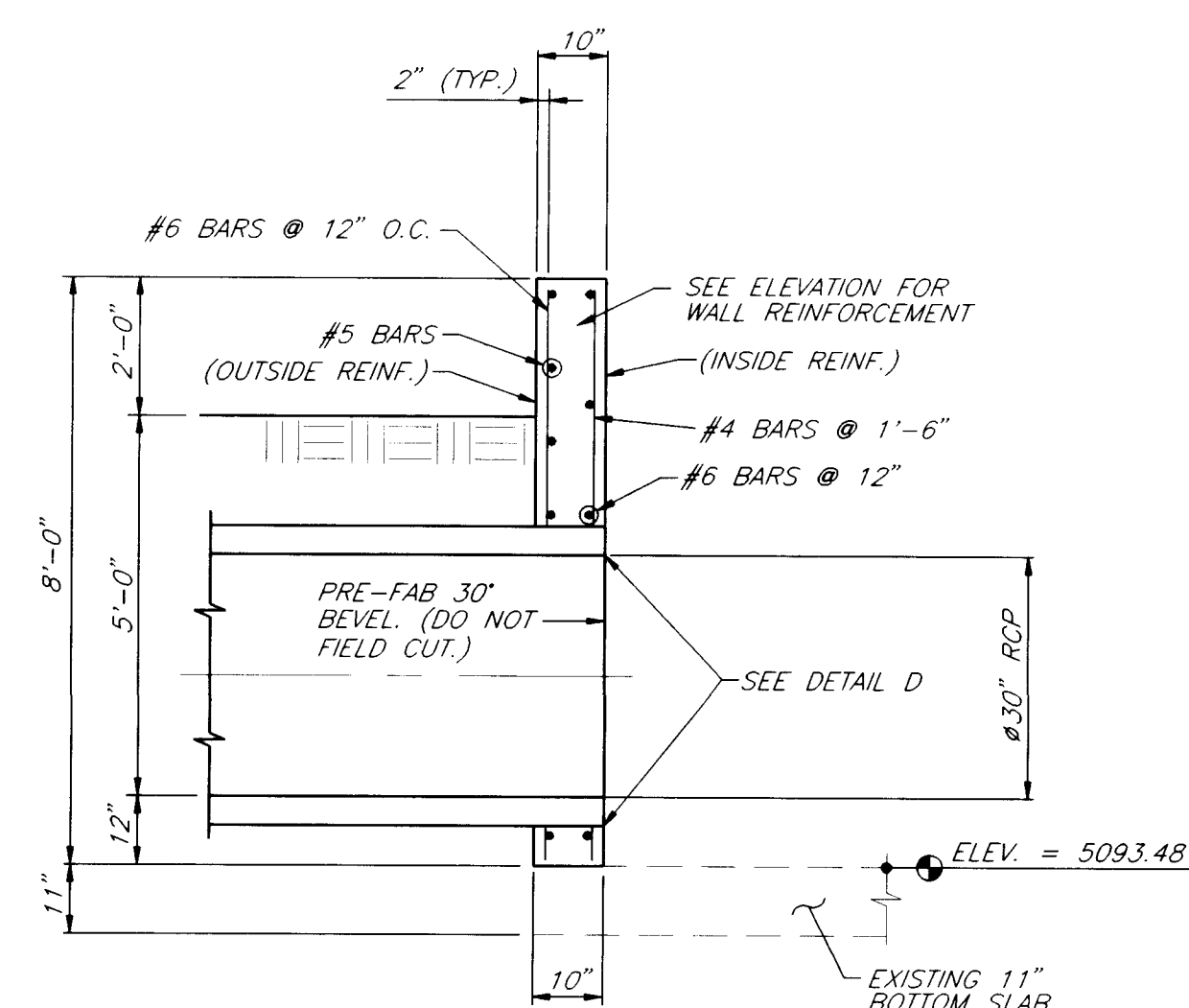
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1	7-2-96	NEW SHEET
2	2-17-97	REVISIONS
3		DESIGN



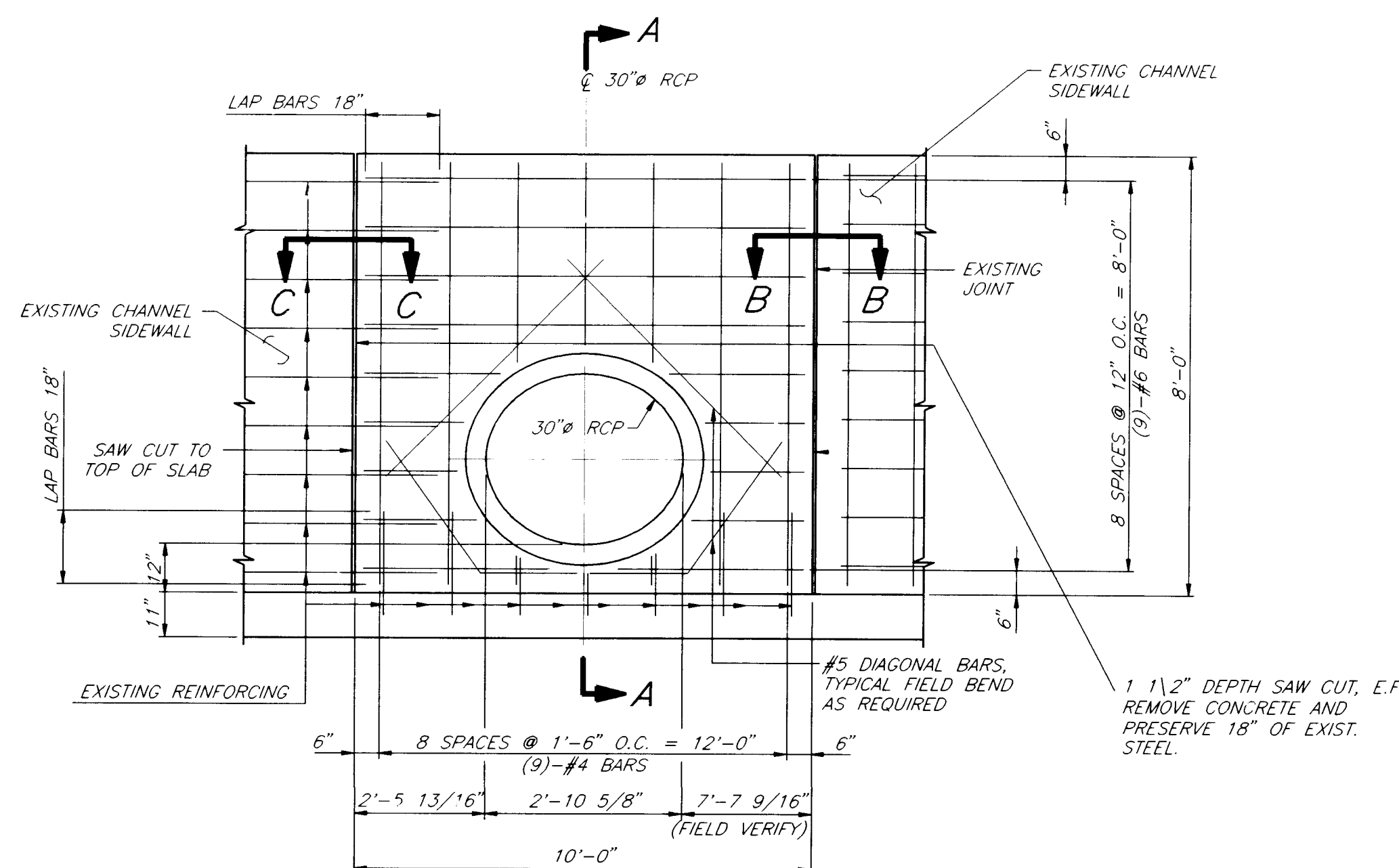
PLAN VIEW
NO SCALE



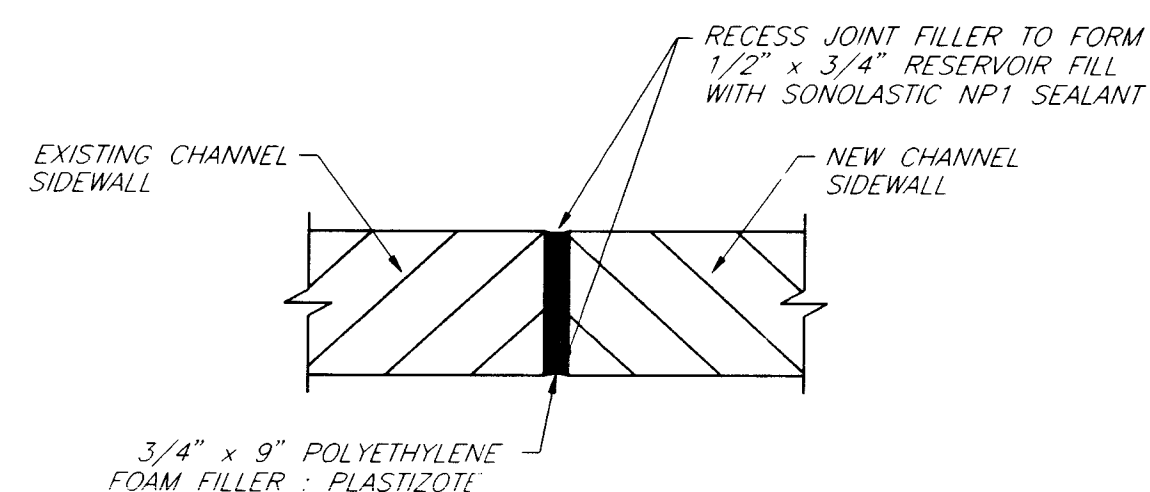
ELEVATION (OUTSIDE REINFORCING)
SCALE: 3/8" = 1'-0"



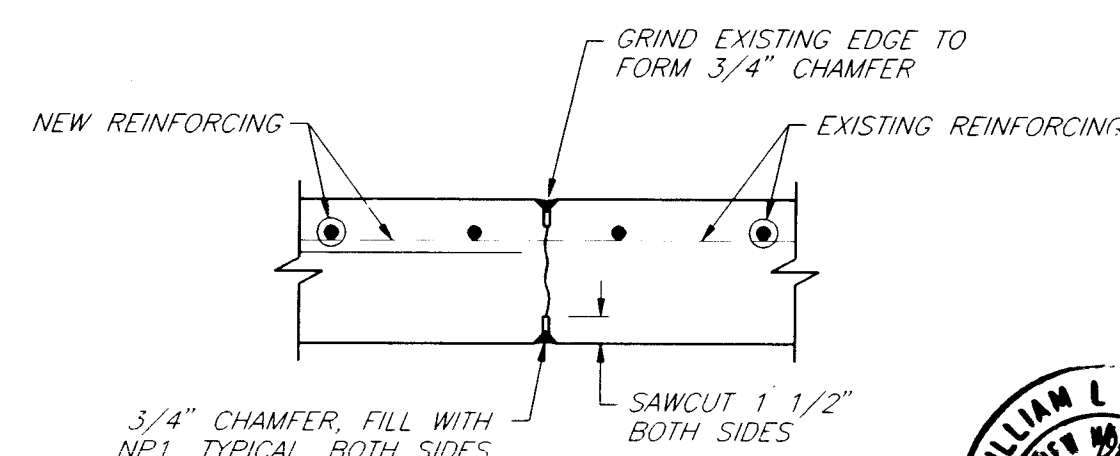
SECTION A-A
SCALE: 3/8" = 1'-0"



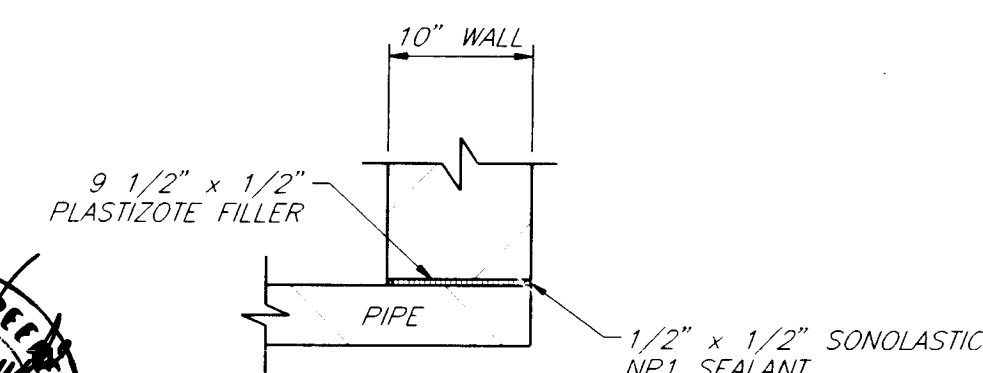
ELEVATION (CHANNEL SIDE REINFORCING)
SCALE: 3/8" = 1'-0"



JOINT SEAL SECTION B-B
SCALE: 1 1/2" = 1'-0"



CONSTRUCTION JOINT SECTION C-C
SCALE: 1 1/2" = 1'-0"



RCP @ WALL JOINT DETAIL D
SCALE: 3/4" = 1'-0"

NOTES:

- MATERIALS:
CONCRETE FOR HYDROLOGIC STRUCTURES
REF. SPEC. TABLE 101.C
15 = 4000 PSI
REINFORCING: ASTM A516, GRADE 60.
- WORK SHALL BE DONE BETWEEN THE MONTHS OF SEPTEMBER THRU JUNE 15.
- CONTRACTOR SHALL CONTACT:
MR. JOHN KELLY
AMAFCA
(505) 884-2215
PRIOR TO CONCRETE PLACEMENT FOR INSPECTION OF FORMS AND STEEL.
- DISTURBED SUBGRADE SHALL BE RECOMPACTED TO 100% MOD. PROCTOR DENSITY AS DETERMINED BY ASTM D1557.
- CONTRACTOR SHALL CLEAN ALL CONSTRUCTION DEBRIS FROM AREA.
- SEE GRADING PLAN FOR FINISHED GRADE.
- SEE SHEET 26 FOR ALIGNMENT OF 42" RCP.
- CONTRACTOR SHALL VERIFY INVERT ELEVATION SHOWN IN SECTION A-A.

CONSTRUCTION NOTES:

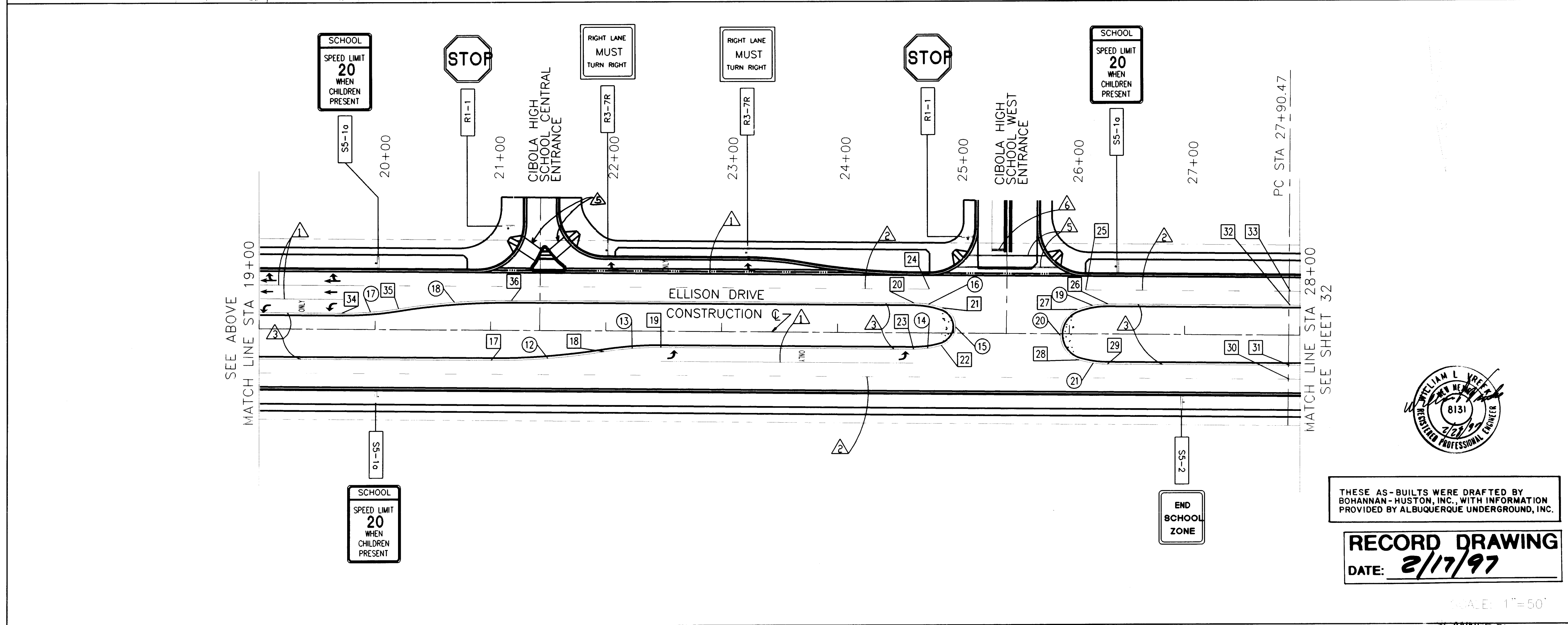
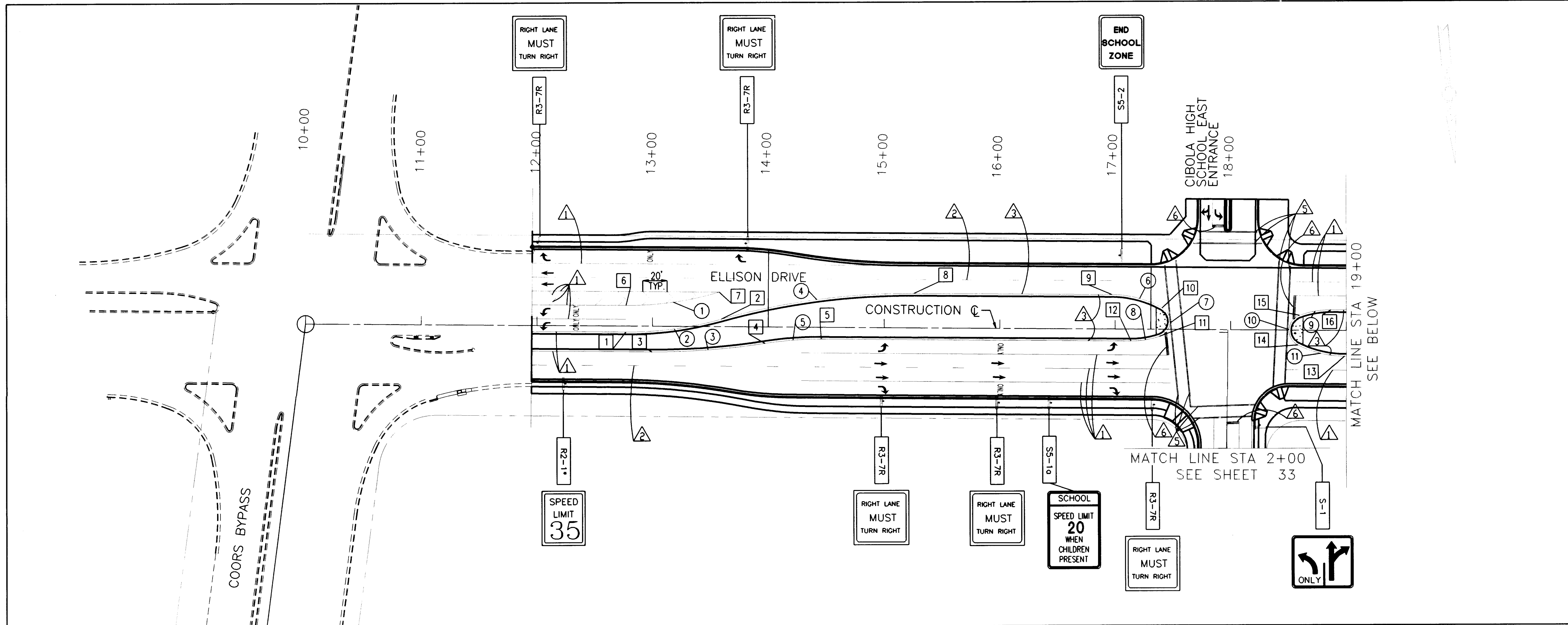
- EXCAVATE BACK SIDE OF WALL TO LIMITS SHOWN IN PLAN.
- SAW CUT EXISTING CHANNEL WALL IN LOCATION SHOWN 1 1/2" DEEP ON BOTH SIDE AND TOP.
- REMOVE CONCRETE OF EXISTING WALL FROM TOP OF SLAB TO TOP OF WALL AND FROM SAW CUT EDGES. SEE PLAN FOR LIMITS OF REMOVAL.
- BREAK OUT EXISTING CONCRETE ADJACENT TO SAW CUT AND BOTTOM SLAB USING A 30# CHIPPING HAMMER TO AVOID DAMAGE TO REMAINING CONCRETE.
- PRESERVE 18" OF EXISTING HORIZONTAL WALL REINFORCING AND VERTICAL DOWELS IN BOTTOM SLAB.
- TIE STEEL AND INSTALL JOINTS AS SHOWN IN DETAILS.
- MATCH FORM LINERS, COLOR AND FINISH OF EXISTING CONCRETE.
- BACKFILL OUTSIDE OF CHANNEL TO ORIGINAL GRADE AFTER CONCRETE HAS GAINED 80% OF DESIGN STRENGTH.
- RCP END SECTION SHALL HAVE PRE-FABRICATED 42" BEVEL. DO NOT FIELD CUT.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CONTRACTOR: ALI	DATE: 2/97	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR: BHI	DATE: 2/97	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
APPROVED BY: BHI	DATE: 2/97	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
REVISIONS	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING					
TITLE: ELLISON DRIVE STORM DRAIN CONNECTION TO BLACK DIVERSION CHANNEL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY ENGINEER			LIQUID WASTE		
A. C. E-DESIGN			TRAFFIC		
HYDROLOGY			WATER		
AMAFCA					
PROJECT NO.	3727.90	MAP NO.	A-13	SHEET	30 OF 72

RECORD DRAWING
DATE: 2/17/97

THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.



KEYED NOTES

- 4" SOLID WHITE STRIPE
- 4" BROKEN WHITE STRIPE
- 4" SOLID YELLOW STRIPE
- 8" SOLID WHITE STRIPE
- 12" SOLID WHITE CROSSWALK
- 24" SOLID WHITE STOP BAR
- REFLECTIVE PLASTIC LEFT ARROW
- REFLECTIVE PLASTIC RIGHT ARROW
- REFLECTIVE PLASTIC THRU ARROW
- REFLECTIVE COMBINATION PLASTIC THRU AND RIGHT ARROW
- ONLY REFLECTIVE PLASTIC "ONLY"
- SIGN

STRIPING CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	276.00'	81.69'	41.14'	16°57'25"
2	299.00'	83.71'	42.13'	16°02'24"
3	600.00'	98.01'	49.71'	9°22'12"
4	600.00'	167.97'	84.54'	16°02'24"
5	300.00'	49.04'	24.58'	9°22'12"
6	90.00'	45.60'	23.30'	29°01'48"
7	13.50'	31.07'	-	228°07'48"
8	75.00'	25.00'	12.62'	19°06'00"
9	75.00'	27.47'	13.89'	20°59'24"
10	14.00'	32.39'	31.86'	132°33'36"
11	90.00'	41.54'	21.15'	26°27'00"
12	600.00'	98.09'	49.17'	9°22'12"
13	300.00'	49.04'	24.59'	9°22'12"
14	84.00'	24.25'	12.21'	16°32'24"
15	17.00'	42.80'	-	215°44'24"
16	75.00'	25.14'	12.69'	19°12'00"
17	300.00'	49.04'	24.58'	9°22'00"
18	600.00'	98.09'	49.15'	9°22'00"
19	75.00'	27.26'	13.78'	20°49'48"
20	23.00'	57.46'	69.04'	143°09'00"
21	90.00'	25.16'	16.02'	16°02'00"

STRIPING POINT DATA

POINT NO.	STATION	OFFSET	DESC.
1	12+77.10	5.17 RT	PC
2	13+59.71	6.47 LT	PCC
3	12+99.46	22.17 RT	PC
4	13+97.11	14.17 RT	PCC
5	14+45.94	10.17 RT	PT
6	12+77.10	17.83 LT	PC
7	13+57.59	29.83 LT	PT
8	15+50.22	29.83 LT	PT
9	16+97.08	29.83 LT	PCC
10	17+40.76	18.52 LT	PCC
11	17+38.62	6.04 RT	PCC
12	17+14.08	10.17 RT	PC
13	18+98.58	22.17 RT	PC
14	18+58.50	12.75 RT	PCC
15	18+59.72	12.85 LT	PCC
16	18+86.58	17.83 LT	PC
17	21+00.88	26.00 RT	PC
18	21+98.53	18.00 RT	PCC
19	22+42.36	14.00 RT	PT
20	24+65.47	26.00 LT	PC
21	24.90.14	21.83 LT	PCC
22	24+89.39	10.52 RT	PCC
23	24+65.47	14.00 RT	PC
24	24+78.47	38.00 LT	-
25	26+13.88	38.00 LT	-
26	26+33.47	26.00 LT	PC
27	26+06.81	21.10 LT	PCC
28	26+08.64	22.51 RT	PCC
29	26+33.47	26.00 RT	PC
30	27+91.35	38.00 RT	PC
31	27+91.35	26.00 RT	PC
32	27+91.35	26.00 LT	PC
33	27+91.35	38.00 LT	PC
34	19+71.30	14.00 LT	PC
35	20+20.13	18.00 LT	PCC
36	21+17.78	26.00 LT	PT

CONTRACTOR ALZ

DESIGNED BY ALZ DATE 2/97

CHECKED BY BHI DATE 2/97

APPROVED BY BHI DATE 2/97

DESIGNED BY BHI DATE 2/97

CHECKED BY BHI DATE 2/97

APPROVED BY BHI DATE 2/97

ENGINEER'S SEAL

DATE 3-95

DATE 3-95

DATE 3-95

DESIGNED BY BHI

DRAWN BY BHI

CHECKED BY BHI

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING

DATE: 2/17/97

SCALE: 1"=50'

SCANNED BY BY LASON

D.R.C. CHAIR

TRANS. DEV.

HYDROLOGY

WATER

WASTE WATER

NMUI

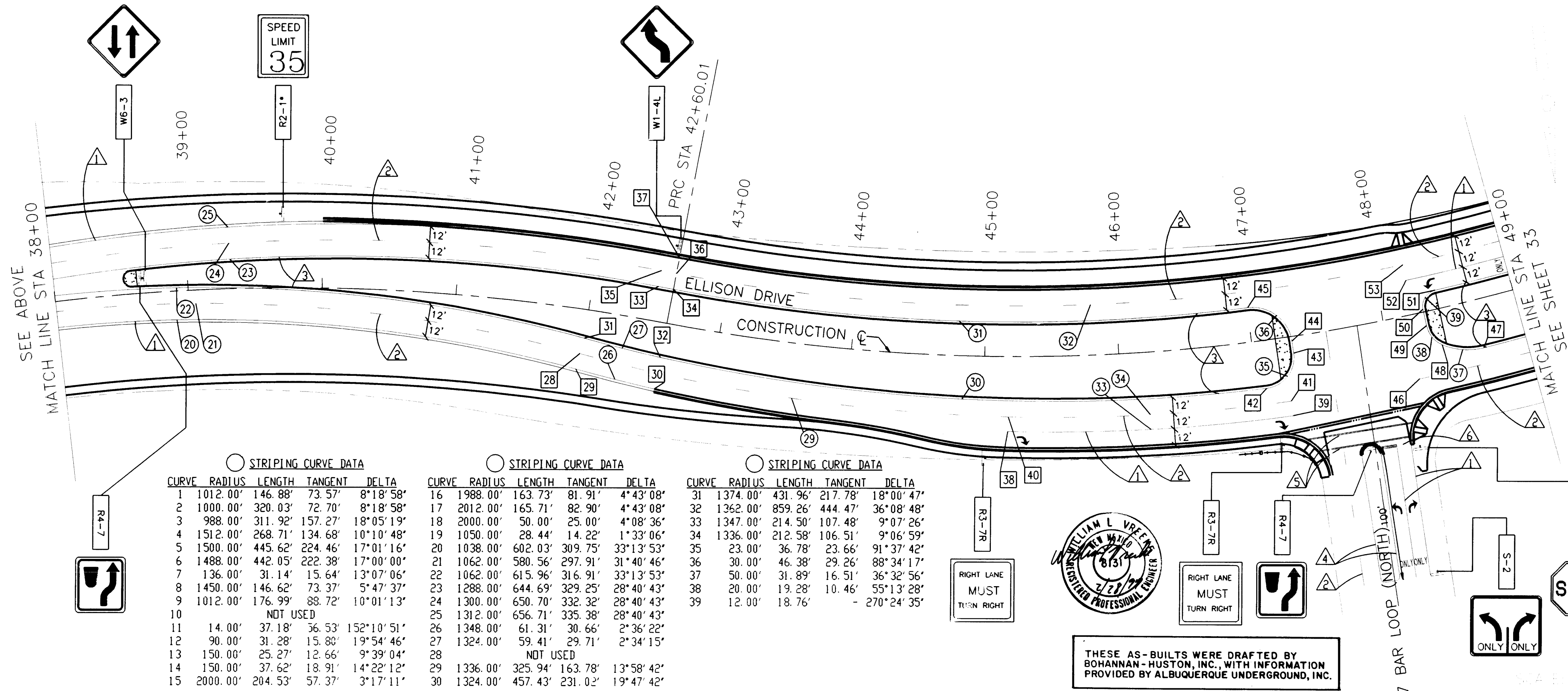
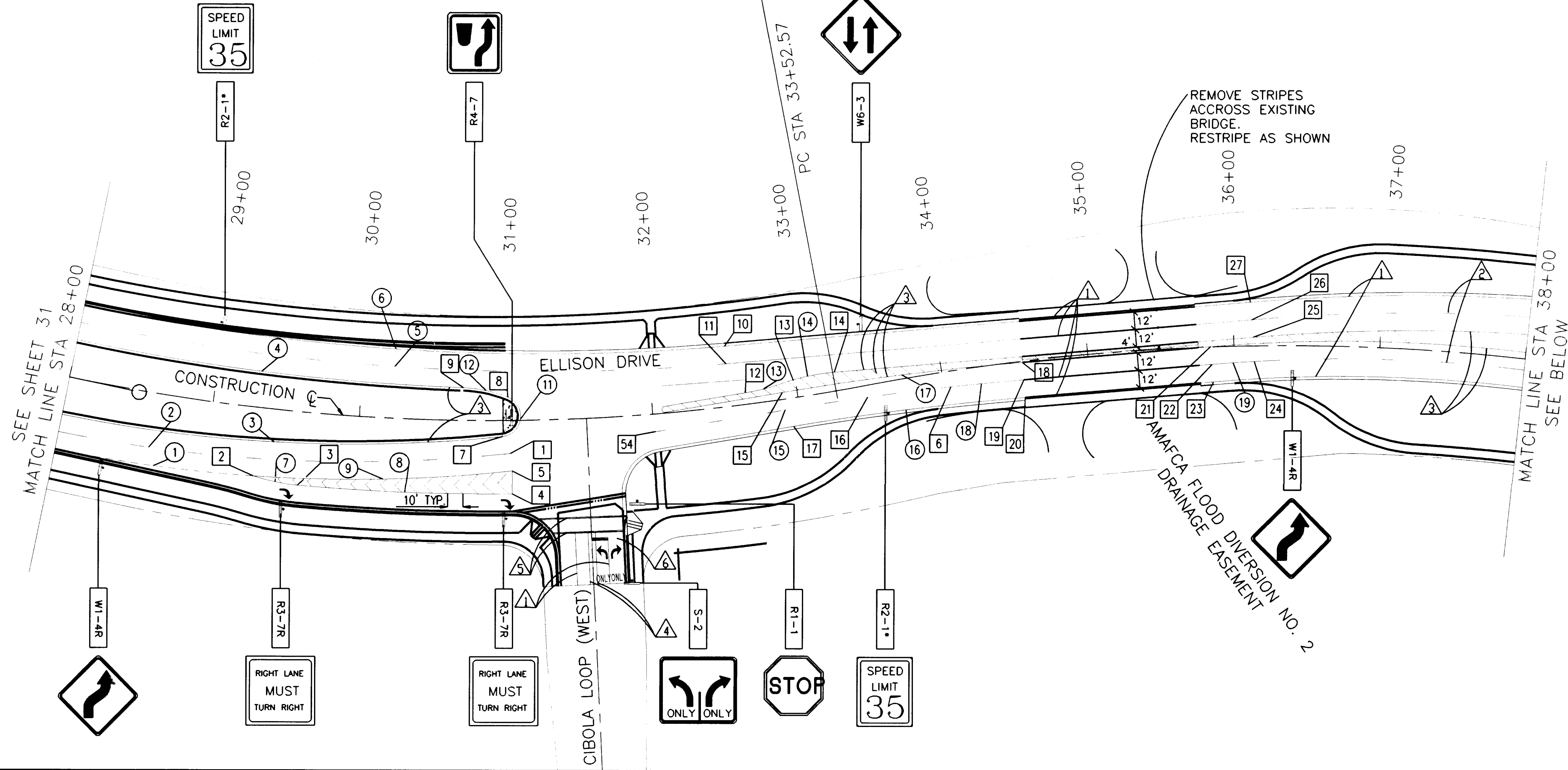
3727.90

A-13

31

72

T94306.10 STRIPE1.DWG 5-17-95



○ STRIPING CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1012.00'	146.88'	73.57'	8°18'58"
2	1000.00'	320.03'	72.70'	8°18'58"
3	988.00'	311.92'	157.27'	18°05'19"
4	1512.00'	268.71'	134.68'	10°10'48"
5	1500.00'	445.62'	224.46'	17°01'16"
6	1488.00'	442.05'	222.38'	17°00'00"
7	136.00'	31.14'	15.64'	13°07'06"
8	1450.00'	146.62'	73.37'	5°47'37"
9	1012.00'	176.99'	88.72'	10°01'13"
10	NOT USED			
11	14.00'	37.18'	36.53'	152°10'51"
12	90.00'	31.28'	15.80'	19°54'46"
13	150.00'	25.27'	12.66'	9°39'04"
14	150.00'	37.62'	18.91'	14°22'12"
15	2000.00'	204.53'	57.37'	3°17'11"

○ STRIPING CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
16	1988.00'	163.73'	81.91'	4°43'08"
17	2012.00'	165.71'	82.90'	4°43'08"
18	2000.00'	50.00'	25.00'	4°08'36"
19	1050.00'	28.44'	14.22'	1°33'06"
20	1038.00'	602.03'	309.75'	33°13'53"
21	1062.00'	580.56'	297.91'	31°40'46"
22	1062.00'	615.96'	316.91'	33°13'53"
23	1288.00'	644.69'	329.25'	28°40'43"
24	1300.00'	650.70'	332.32'	28°40'43"
25	1312.00'	656.71'	335.38'	28°40'43"
26	1348.00'	61.31'	30.66'	2°36'22"
27	1324.00'	59.41'	29.71'	2°34'15"
28	NOT USED			
29	1336.00'	325.94'	163.78'	13°58'42"
30	1324.00'	457.43'	231.02'	19°47'42"

○ STRIPING CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
31	1374.00'	431.96'	217.78'	18°00'47"
32	1362.00'	859.26'	444.47'	36°08'48"
33	1347.00'	214.50'	107.48'	9°07'26"
34	1336.00'	212.58'	106.51'	9°06'59"
35	23.00'	36.78'	23.66'	91°37'42"
36	30.00'	46.38'	29.26'	88°34'17"
37	50.00'	31.89'	16.51'	36°32'56"
38	20.00'	19.28'	10.46'	55°13'28"
39	12.00'	18.76'	-	270°24'35"

- △ KEYED NOTES
- △ 4" SOLID WHITE STRIPE
 - △ 4" BROKEN WHITE STRIPE
 - △ 4" SOLID YELLOW STRIPE
 - △ 8" SOLID WHITE STRIPE
 - △ 12" SOLID WHITE CROSSWALK
 - △ 24" SOLID WHITE STOP BAR
 - ↶ REFLECTIVE PLASTIC LEFT ARROW
 - ↷ REFLECTIVE PLASTIC RIGHT ARROW
 - ↑ REFLECTIVE PLASTIC THRU ARROW
 - ↗ REFLECTIVE COMBINATION PLASTIC THRU AND RIGHT ARROW
 - ONLY REFLECTIVE PLASTIC "ONLY"
 - SIGN

○ STRIPING POINT DATA

POINT NO.	STATION	OFFSET	DESC.
1	31+02.68	22.45 RT	PT
2	29+32.35	46.78 RT	PCC
3	29+62.24	50.00 RT	PCC
4	31+03.78	50.00 RT	PT
5	31+03.78	34.39 RT	PT
6	34+04.75	10.72 RT	PC
7	30+97.31	10.92 RT	PCC
8	31+01.32	15.96 LT	PCC
9	30+70.44	22.36 LT	PCC
10	32+54.28	41.29 LT	PCC
11	32+53.87	29.30 LT	PT
12	32+64.76	8.00 LT	PC
13	32+98.55	11.80 LT	PCC
14	33+27.80	12.88 LT	PT
15	32+89.84	4.79 LT	PC
16	33+47.16	7.90 RT	PC
17	32+94.16	19.12 RT	PC
18	34+55.54	0.75 RT	PT
19	34+55.11	12.74 RT	PT
20	34+54.67	24.73 RT	PT
21	35+84.20	0.17 LT	PC
22	35+84.80	11.82 RT	PCC
23	35+85.42	23.80 RT	PC
24	36+13.42	10.50 RT	PCC
25	36+13.06	5.90 LT	PC
26	36+12.23	17.87 LT	PC
27	36+11.43	29.85 LT	PCC
28	41+98.36	33.32 RT	PCC
29	41+96.88	45.24 RT	PCC
30	42+60.01	50.00 RT	PCC
31	41+99.83	21.41 RT	PCC
32	42+60.01	26.00 RT	PCC
33	42+48.85	26.04 LT	PT
34	42+60.01	26.00 LT	PCC
35	42+48.85	38.04 LT	PT
36	42+60.01	38.00 LT	PCC
37	42+60.01	50.00 LT	PCC
38	45+17.57	56.16 RT	PC
39	47+23.54	59.04 RT	PT
40	45+17.78	45.16 RT	PCC
41	47+23.45	48.04 RT	PT
42	47+07.12	35.91 RT	PCC
43	47+30.10	12.64 RT	PT
44	47+30.07	3.57 RT	PC
45	47+00.15	26.00 LT	PCC
46	48+39.62	48.49 RT	PC
47	48+68.84	36.51 RT	PCC
48	48+39.62	27.00 RT	PCC
49	48+31.25	10.52 RT	PT
50	48+31.25	2.34 LT	PC
51	48+43.25	14.00 LT	PCC
52	48+23.48	26.00 LT	PC
53	48+23.57	38.00 LT	PCC
54	32+01.03	38.00 LT	PCC

RECORD DRAWING
DATE: 2/17/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: ELLISON DRIVE
STA. 28+00 TO 49+00
STRIPING PLAN

D.R.C. CHAIR
TRANS. DEV.
HYDROLOGY
WATER
WASTE WATER
NMUI

AS-BUILT INFORMATION

CONTRACTOR: ALI
WORK STARTED BY: ALI
DATE: 2/97
ACCEPTANCE BY: BHI
DATE: 2/97
FIELD INSPECTION BY: BHI
DATE: 2/97
DRAWINGS CHECKED BY: BHI
DATE: 2/97
MICRO-FILM INFORMATION

BENCH MARKS

ACS 3-A-13" - A 3" HUGG BRASS CAP STAMPED
PT 81, 1980, 3-A-13", SET IN CONCRETE
LOCATED 0.33 MILES SOUTH OF THE SANDOVAL CO./
BERNALILLO CO. LINE, APPROXIMATELY 36.5 FT.
SW OF THE SOUTHERLY RIGHT-OF-WAY FENCE OF
STATE ROAD 528 AND 33.5 FT. EAST OF THE EAST
RIGHT-OF-WAY FENCE OF BLACKS CHANNEL
ELEVATION = 5198.732

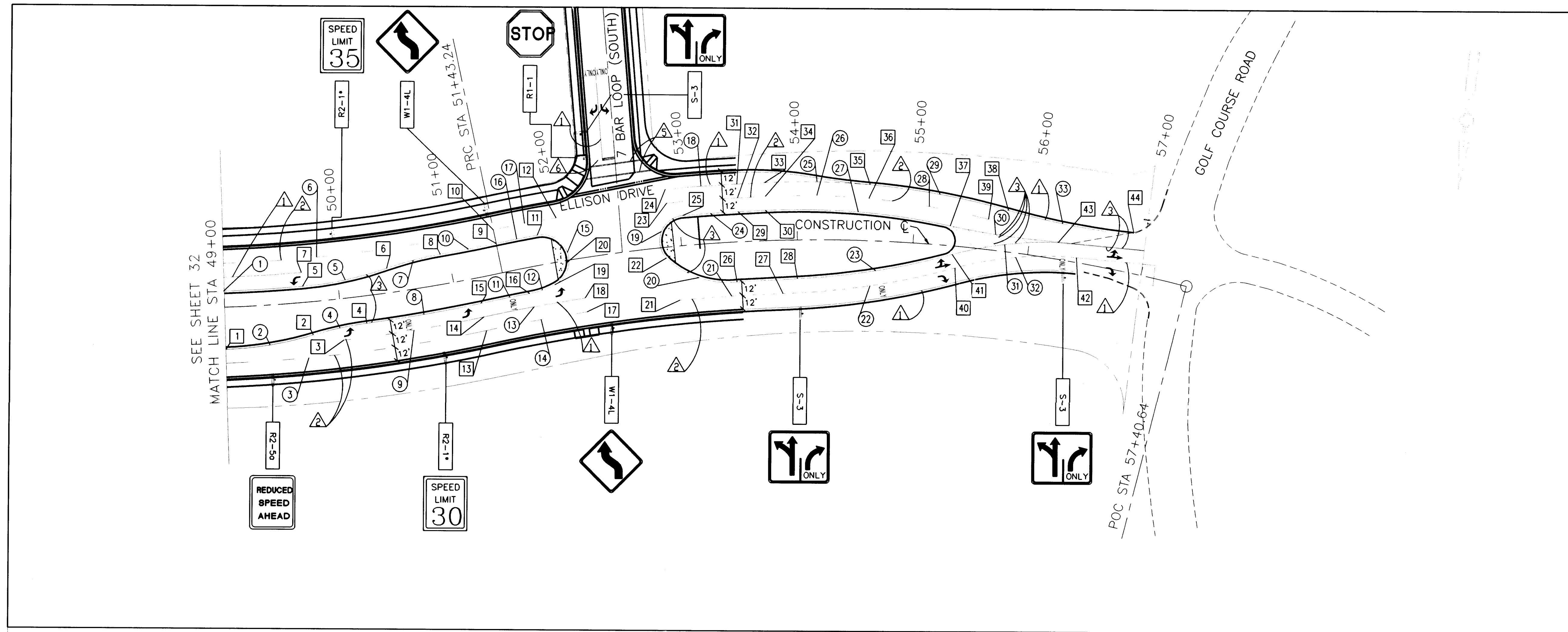
ENGINEER'S SEAL

DATE 3-95
DATE 3-95
DATE 3-95

DESIGNED BY: BHI
DRAWN BY: BHI
CHECKED BY: BHI

3-19-96

3727.90 A-13 32 72



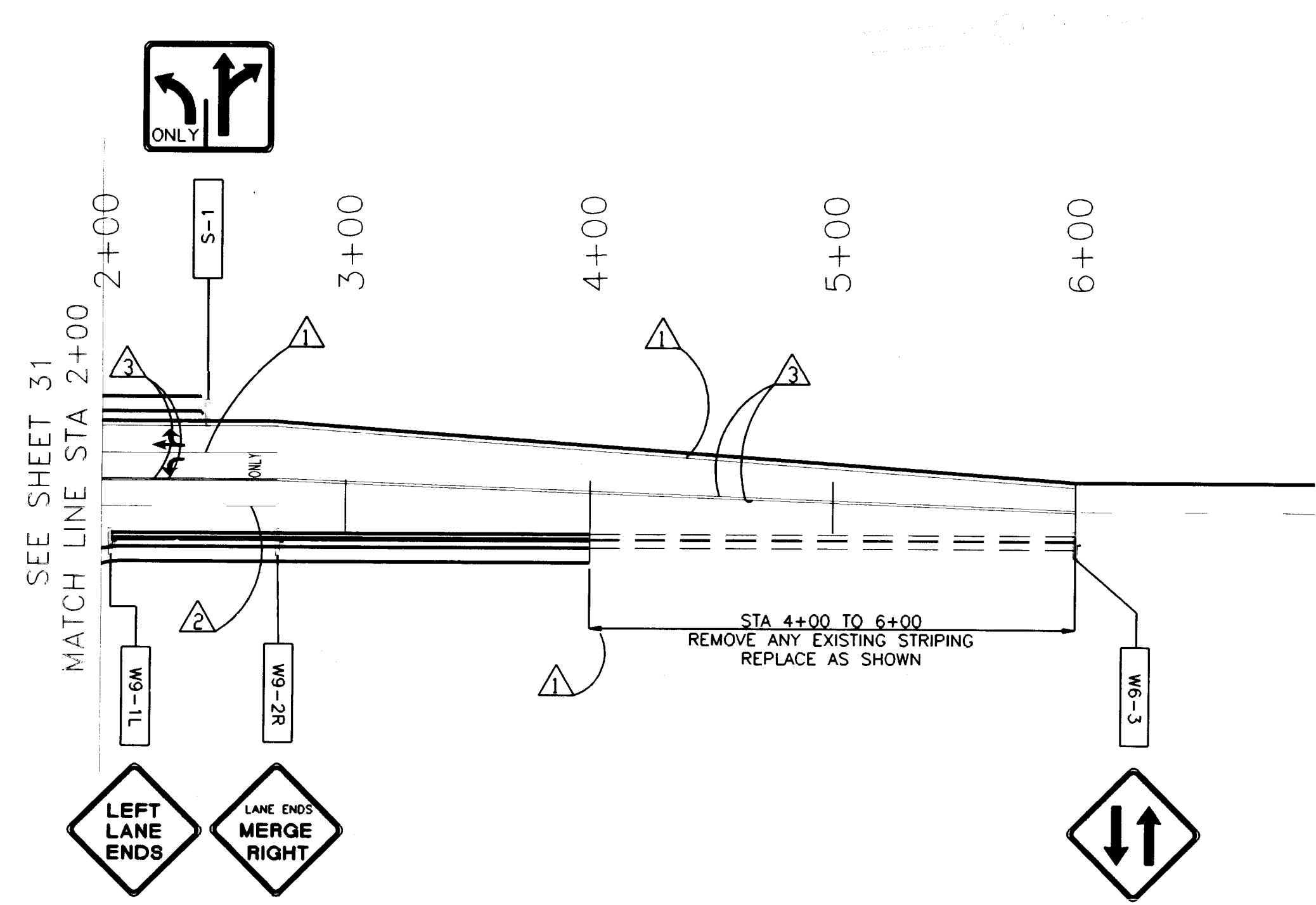
- KEYED NOTES**
- △ 4" SOLID WHITE STRIPE
 - △ 4" BROKEN WHITE STRIPE
 - △ 4" SOLID YELLOW STRIPE
 - △ 8" SOLID WHITE STRIPE
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 - REFLECTIVE PLASTIC THRU ARROW
 - REFLECTIVE COMBINATION PLASTIC THRU AND RIGHT ARROW
 - REFLECTIVE PLASTIC "ONLY"
 - SIGN

STRIPING POINT DATA

POINT NO.	STATION	OFFSET	DESC.
1	49+00.20	36.43 RT	PC
2	49+74.55	28.65 RT	PCC
3	50+00.00	35.78 RT	PC
4	50+21.09	23.57 RT	PCC
5	49+68.94	14.00 LT	PCC
6	50+44.17	21.29 LT	PCC
7	49+68.94	26.00 LT	PT
8	50+92.96	26.00 LT	PCC
9	51+43.24	26.00 LT	PCC
10	51+43.24	38.00 LT	PCC
11	51+78.89	26.00 LT	PCC
12	51+96.95	38.00 LT	PT
13	51+20.34	46.19 RT	PCC
14	51+20.15	34.19 RT	PCC
15	51+19.96	22.20 RT	PCC
16	51+63.03	22.28 RT	PCC
17	52+10.29	46.60 RT	PT
18	52+10.29	34.60 RT	PCC
19	51+96.04	18.88 RT	PCC
20	51+99.28	2.00 RT	PCC
21	52+94.27	46.72 RT	PC
22	52+85.85	9.32 RT	PCC
23	52+90.74	38.00 LT	PC
24	52+90.74	50.00 LT	PC
25	53+03.38	26.00 LT	PC
26	53+45.09	34.50 RT	PT
27	53+86.53	46.17 RT	PCC
28	53+99.77	33.54 RT	PC
29	53+50.00	26.00 LT	PT
30	53+73.08	26.19 LT	PC
31	53+50.00	50.00 LT	PT
32	53+50.00	38.00 LT	PT
33	53+73.15	50.21 LT	PC
34	53+73.36	38.22 LT	PC
35	54+61.19	48.51 LT	PCC
36	54+60.54	36.52 LT	PCC
37	55+31.14	17.08 LT	PCC
38	55+78.89	35.81 LT	PCC
39	55+63.12	26.08 LT	PT
40	55+38.55	18.75 RT	PCC
41	55+34.78	7.33 RT	PCC
42	56+42.65	4.01 LT	PT
43	56+24.74	14.39 LT	PT
44	56+86.43	34.90 LT	PT

STRIPING CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	1386.00'	137.31'	68.71'	5°40'34"
2	300.00'	76.88'	38.65'	14°40'59"
3	1336.00'	312.56'	156.99'	13°24'15"
4	300.00'	47.74'	23.92'	9°07'00"
5	300.00'	74.82'	37.61'	14°17'22"
6	1362.00'	310.99'	156.18'	13°04'58"
7	300.00'	48.25'	24.17'	9°12'51"
8	1312.00'	100.49'	50.27'	4°23'13"
9	1324.00'	123.17'	61.63'	5°19'49"
10	1374.00'	49.35'	24.68'	2°03'28"
11	1438.00'	34.98'	17.49'	1°23'38"
12	70.04'	23.01'	11.61'	18°49'19"
13	1448.12'	88.93'	44.48'	3°31'07"
14	1436.23'	88.31'	44.17'	3°31'23"
15	23.00'	65.10'	146.61'	162°10'04"
16	1326.00'	36.37'	18.18'	1°34'17"
17	1338.00'	55.28'	27.64'	2°22'02"
18	1350.00'	61.54'	30.78'	2°36'42"
19	22.00'	48.86'	-	232°44'31"
20	77.00'	66.19'	35.29'	49°15'05"
21	1414.00'	88.97'	44.50'	3°36'18"
22	662.00'	150.97'	75.81'	13°03'59"
23	650.00'	135.67'	68.08'	11°57'34"
24	1326.00'	47.55'	23.78'	2°03'17"
25	650.00'	91.45'	45.80'	8°03'41"
26	638.00'	89.76'	44.96'	8°03'41"
27	600.00'	161.34'	81.16'	15°24'23"
28	638.00'	105.66'	52.95'	9°29'21"
29	650.00'	122.33'	61.34'	10°46'58"
30	650.00'	80.12'	40.11'	7°03'45"
31	312.00'	93.12'	46.90'	17°05'53"
32	300.00'	106.95'	54.05'	20°25'37"
33	650.00'	97.42'	48.80'	8°35'13"



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING

DATE: **2/17/97**

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ELLISON DRIVE/CIBOLA LOOP (EAST)

STRIPING PLAN

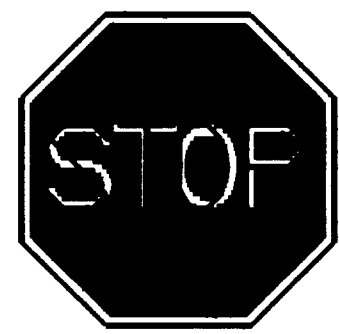
D.R.C. CHAIR
TRANS. DEV.
HYDROLOGY

WATER
WASTE WATER
NMUI

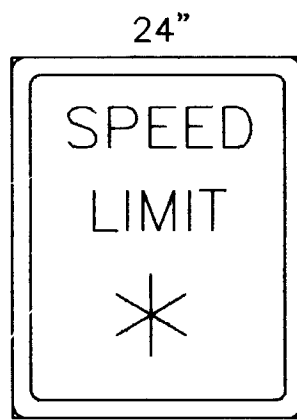
DESIGNED BY BHI
DRAWN BY BHI
CHECKED BY BHI

DATE 3-95
DATE 3-95
DATE 3-95

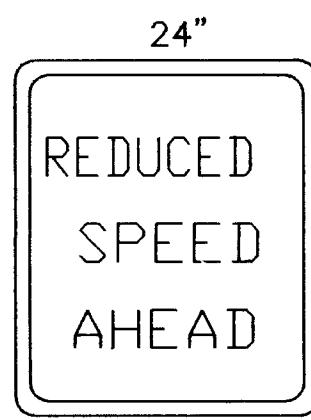
3727.90 A-13 33 72



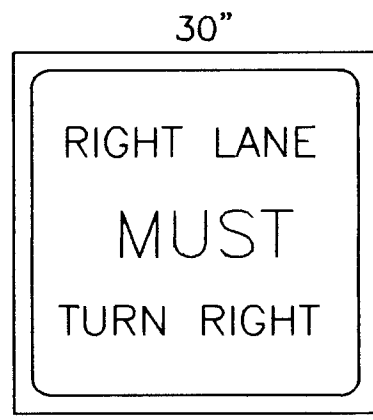
R1-1
W/R,R/B



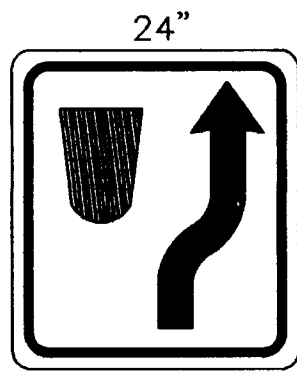
R2-1*
B/W,R/B



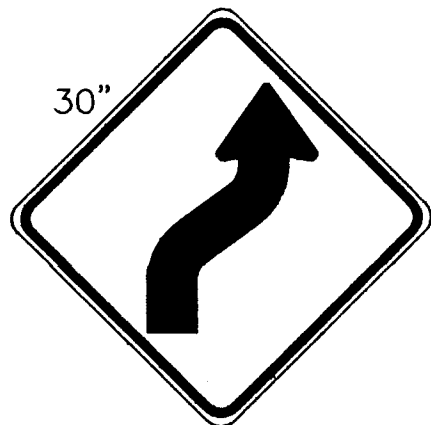
R2-5a
B/W,R/B



R3-7R
B/W,R/B



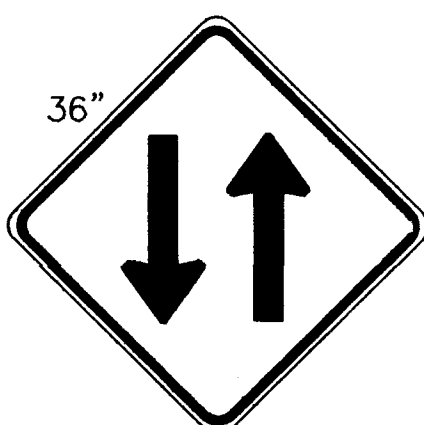
R4-7
B/W,R/B



W1-4R
B/Y,R/B



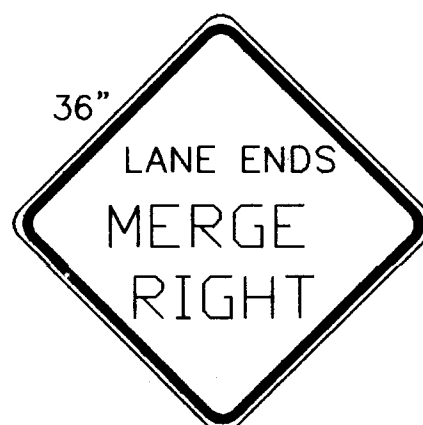
W1-4L
B/Y,R/B



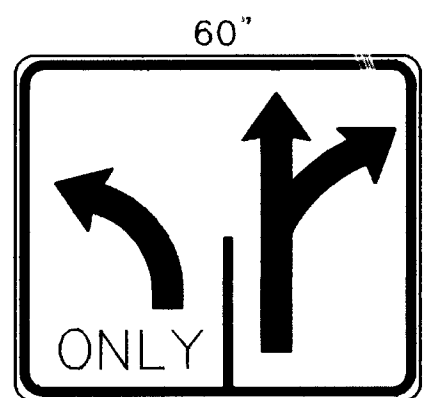
W6-3
B/Y,R/B



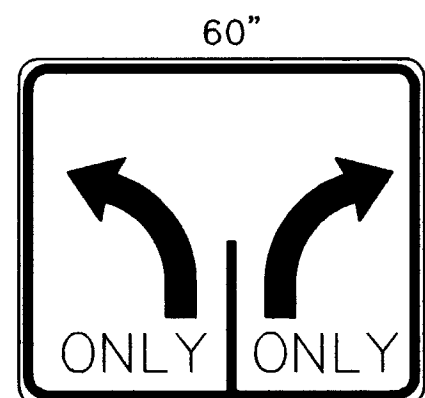
W9-1L
B/Y,R/B



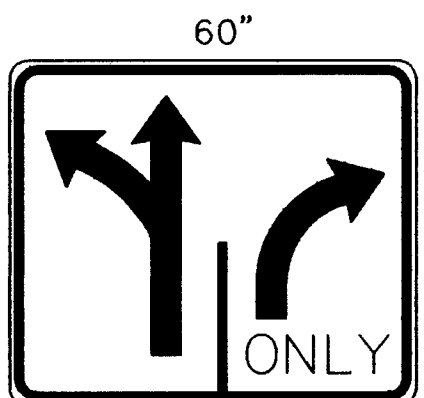
W9-2R
B/Y,R/B



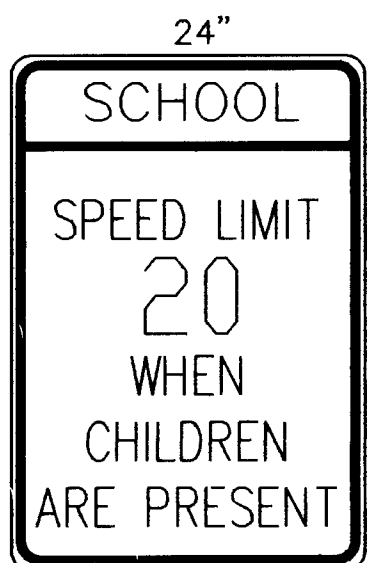
S-1
B/W
B/W,R/B



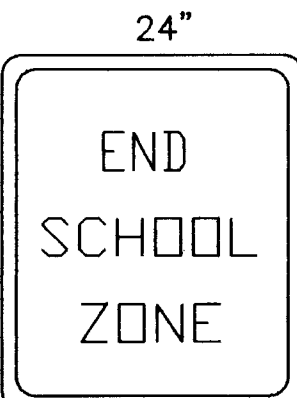
S-2
B/W
B/W,R/B



S-3
B/W
B/W,R/B



S5-1a



S5-2
B/W,R/B

SIGN CODE	NO. OF SIGNS	TOTAL SIGN AREA	POST LENGTHS				DRIVEDOWN POSTS 2-1/4" SQ.	BASE POSTS	
			LEFT	CENTER	RIGHT	TOTAL		NUMBER	TOTAL LENGTH
R1-1	5	26.75		45		45	X	5	17.5
R2-1*	3	5.15		27		27	X	3	10.5
R2-5a	1	5.0		9		9	X	1	3.5
R3-7R	7	43.75		63		63	X	7	24.5
R4-7	2	10.0		18		18	X	2	7.0
S-1	1	15	9		9	18	X	1	3.5
S-2	3	45	27		27	54	X	3	10.5
S-3	2	30	18		18	36	X	2	7.0
S5-1a	1	8	9		9		X	1	3.5
S5-2	2	10.0		18		18	X	2	7.0
W1-4R	1	9	9		9	18	X	1	3.5
W1-4L	2	18	18		18	36	X	2	7.0
W6-3	2	18	18		18	38	X	2	7.0
W9-1L	1	9	9		9	18	X	1	3.5
W9-1R	1	9	9		9	18	X	1	3.5
TOTAL	34	271.5				414		34	1'



THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN - HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

NOTES

- EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE STANDARD HIGHWAY SIGNS MANUAL (1979 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
- ALL SIGNS SHALL BE ALUMINUM.
- BID ITEM - STEEL POSTS AND BASE POSTS FOR SIGNS: THE CONTRACTOR SHALL FURNISH AND INSTALL SQUARE TUBE DRIVEDOWN POSTS FOR STEEL POSTS AND BASE POSTS WITH CROSS SECTION INDICATED. REFER TO NEW MEXICO STATE HIGHWAY AND TRANS. DEPARTMENT SPECIAL DRAWINGS "ALUMINUM PANEL SIGN DETAILS".
- POST LENGTHS AND SECTIONS ARE BASED ON A 7'-0" CLEARANCE HEIGHT FROM THE TOP OF DRIVING LANE TO THE BOTTOM OF THE SIGN (EXCEPT WHERE INDICATED ON THE PLANS). FINAL POST LENGTHS AND SECTIONS ARE TO BE DETERMINED IN THE FIELD.
- PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SUPPLEMENTAL TECH. SPECIFICATION, SECTION 440, FOR THE REFLECTORIZED PLASTIC PAVEMENT SYMBOLS, LEGENDS, STRIPES, AND MARKINGS, AS SHOWN ON THE CONTRACT DOCUMENTS.
- ALL NEW PAVEMENT MARKINGS INCLUDING LANE LINES, STOP BARS, CROSSWALKS, AND ARROWS SHALL BE EITHER HOT OR COLD PLASTIC REFLECTORIZED MARKINGS.
- COLD PLASTIC REFLECTORIZED PAVEMENT MARKINGS SHALL CONFORM TO THE SUPPLEMENTAL SPECIFICATIONS, SECTION 440, IN THE CONTRACT DOCUMENTS.
- HOT PLASTIC REFLECTORIZED PAVEMENT MARKINGS WILL BE CONSIDERED BY THE CITY AS A SUBSTITUTE FOR COLD PLASTIC PROVIDED THAT INSTALLATION IS CARRIED OUT PER THE MANUFACTURER'S SPECS. HOT PLASTIC SHALL BE A MINIMUM OF 90 MIL THICKNESS FOR ALL LANE LINES AND 125 MIL FOR ALL TRANSVERSE LINES. TEN POUND DROP-ON GLASS BEADS PER 100 SQ. FT. IS REQUIRED. ALL TRANSVERSE LINES SHALL BE ALKYD THERMOPLASTIC. LANE LINES MAY BE HYDROCARBON THERMOPLASTIC.
- CONTRACTOR SHALL REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS.



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

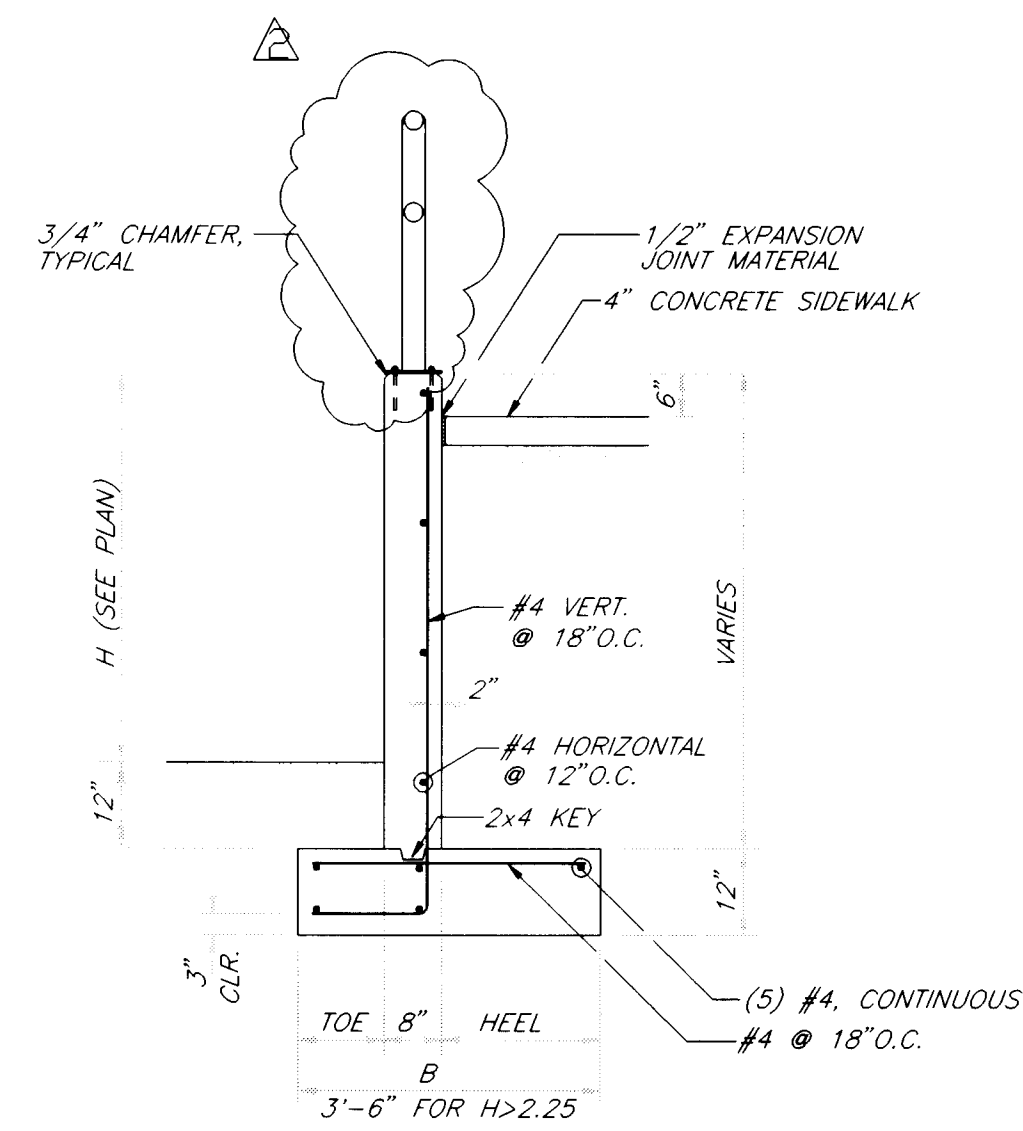


TITLE: ELLISON DRIVE

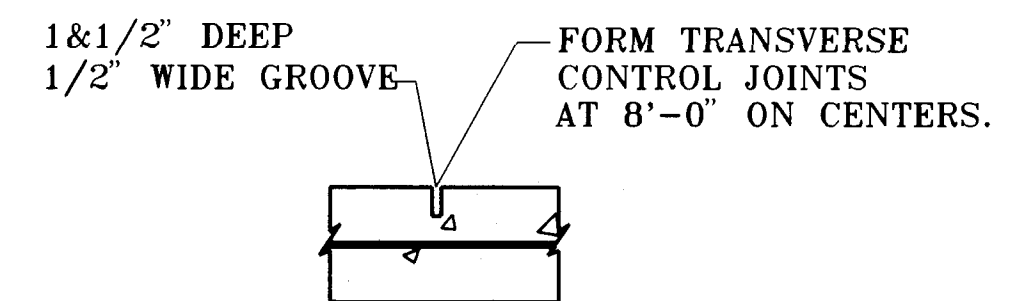
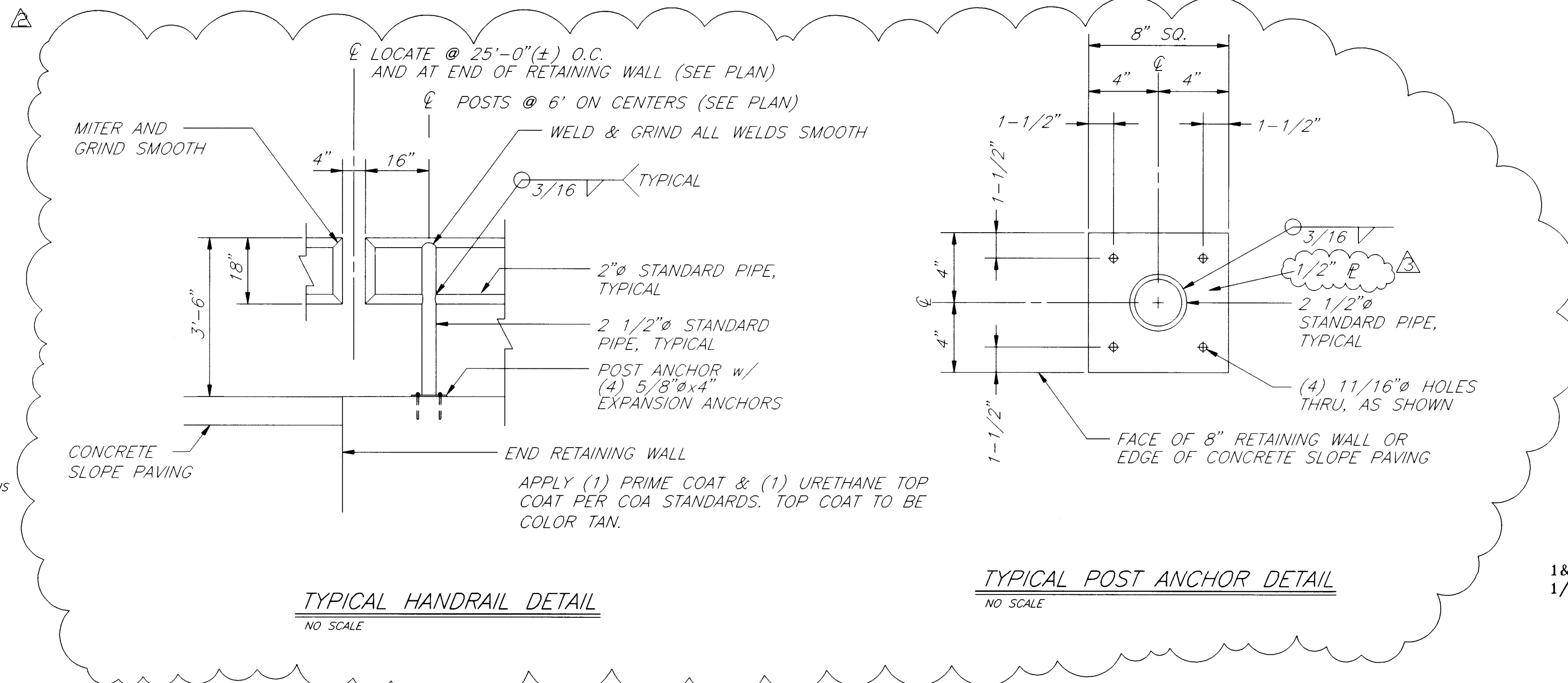
SIGN FACE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

PROJECT NO.	3727.90	MAP NO.	A-13	SHEET	34	OF	72
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RETAINING WALL
NOT TO SCALE

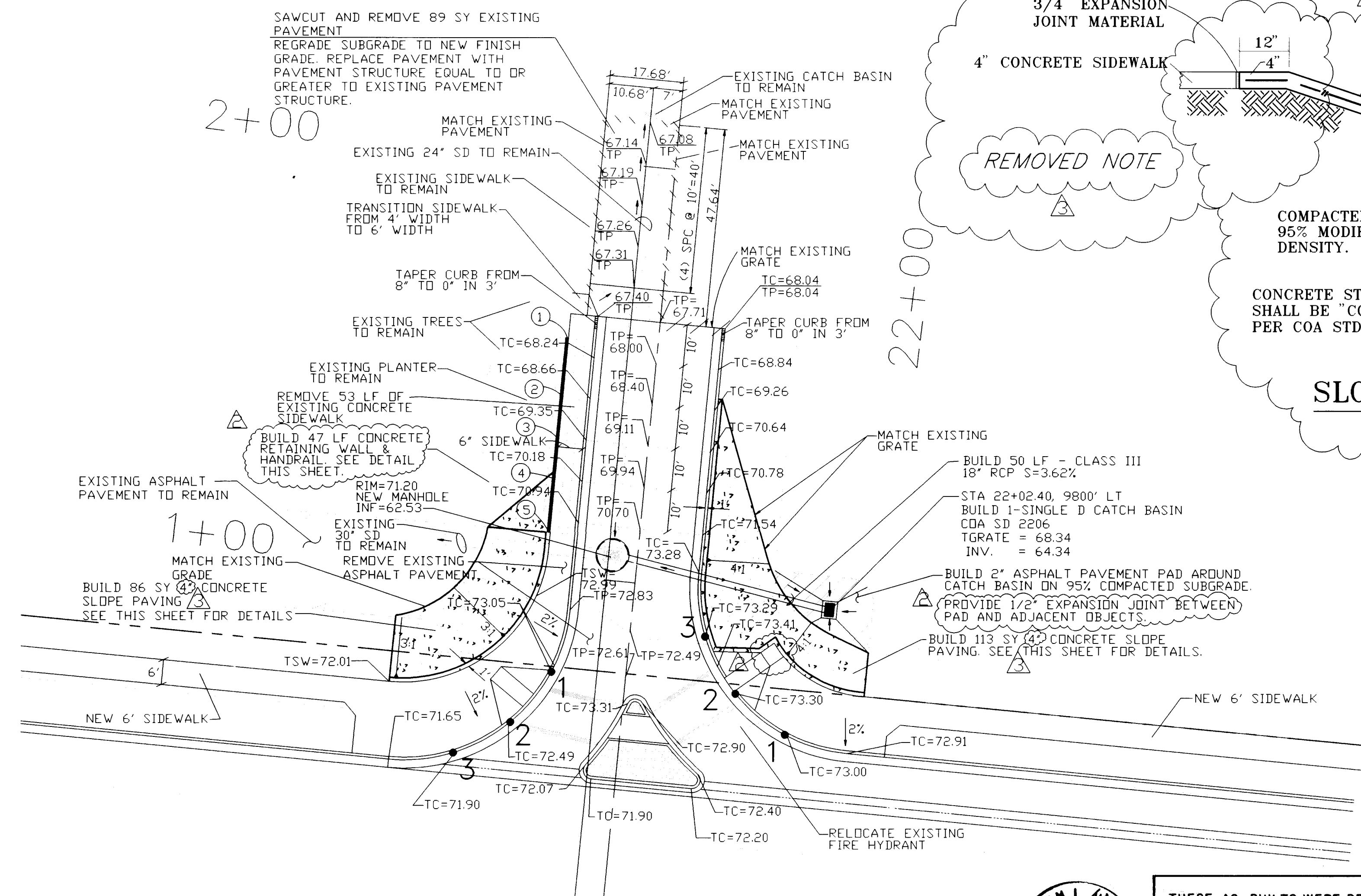


RETAINING WALL
HEIGHTS & ELEVATIONS

POINT	TOP OF WALL	BOTTOM OF WALL	HEIGHT T.O.W. TO FINISH GRADE
①	68.36	67.25	1.11
②	68.78	67.23	1.55
③	69.47	67.23	2.24
④	70.30	67.24	3.06
⑤	71.34	67.07	4.27

H	18" TO 2'-3"	2'-3" TO 4'-3"
TOE	9"	12"
HEEL	10"	1'-10"
B	2'-3"	3'-6"

- NOTES
1. COMPACT SUBGRADE TO 95% MODIFIED PROCTOR DENSITY
 2. COMPACT BACKFILL TO 90% MODIFIED PROCTOR DENSITY
 3. SCARIFY SUBGRADE 8" DEEP. MOISTEN TO WITHIN 2% OPTIMUM MOISTURE.
 4. REBAR SHALL BE ASTM A615, GRADE 60.
 5. CONCRETE SHALL COMPLY WITH CITY ALBUQUERQUE STANDARD SPECIFICATIONS FOR "CONCRETE FOR EXTERIOR STRUCTURES" AS DEFINED IN TABLE 101.C.
 6. FORM A CONTROL JOINT THROUGH FOOTING AND WALL AT TRANSITION IN FOOTING WIDTH WITH 1/2" EXPANSION MATERIAL. DISCONTINUE ALL HORIZONTAL BARS. CHAMFER ALL CORNERS.



CENTRAL ENTRANCE



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

REVISD SHEET
DELETE PREVIOUS DRAWINGS
ADDED CENTRAL ENTRANCE & DETAILS

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ELLISON DRIVE					
MISCELLANEOUS DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		
PROJECT NO.	3727	MAP NO.	A-13	SHEET	OF 35R 72

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	ALUT	DATE	NO.	BY	NO.	BY	NO.
WORK STARTED BY	ALUT	DATE	NO.	BY	NO.	BY	NO.
WORK STOPPED BY	ALUT	DATE	NO.	BY	NO.	BY	NO.
FIELD CHECKED BY	BHI	DATE	NO.	BY	NO.	BY	NO.
DESIGNED BY	BHI	DATE	NO.	BY	NO.	BY	NO.
DRAWN BY	BHI	DATE	NO.	BY	NO.	BY	NO.
CHECKED BY	BHI	DATE	NO.	BY	NO.	BY	NO.

SIGNAL AND LIGHTING NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, AND THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS.
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
5. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING FOR TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES.
6. ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER.
7. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS(857-8000) TWO WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
9. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME.
10. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
11. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
12. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
13. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
14. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
15. CONTRACTOR SHALL COIL EXCESS INTERCONNECT CABLE AT ALL NEW OR EXISTING TRAFFIC MANHOLES BETWEEN SPLICE CABINET OR CONTROL CABINETS WITH SPLICE BARS. IF MORE THAN ONE MANHOLE EXISTS BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS, THEN COILING IS ONLY REQUIRED AT ONE OF THE MANHOLES. THE FOLLOWING QUANTITIES OF COMMUNICATION CABLE SHALL BE COILED:
12 PAIR - 50 FT.
25 PAIR - 50 FT.
50 PAIR - 25 FT.
75 PAIR - 25 FT.
16. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
17. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

INCIDENTAL ITEMS *

1. CABLE TESTING AND DIAGRAMS.
2. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
3. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
4. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
5. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
6. HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
7. LEAN FILL FOR CONDUIT TRENCHES.
8. PULL BOX ADJUSTMENT TO GRADE.
9. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
- * ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

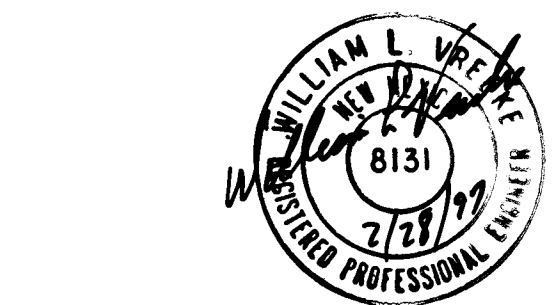
1. THIS PROJECT IS AN EXTENSION OF AN EXISTING SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
- A. ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE ECONOLITE ASC 2/2100.
- B. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE ECONOLITE P SIZE, SYSTEM READY.
2. SPLICE CABINETS SHALL BE NEMA 4X.30"x24"x8" WITH STEEL PANEL AND HASP/STAPLE FOR PAD LOCKING OR APPROVED EQUAL. LOW VOLTAGE NON-CONTINUOUS TERMINATING SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). BELL SYSTEMS PART #66B-3-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
3. INTERCONNECT CABLES SHALL COMPLY WITH REA SPECIFICATION PE-39, INTERCONNECT CABLE SHALL CONTAIN THE NUMBER OF WIRE PAIRS SHOWN ON THE PLANS AND THE INDIVIDUAL CONDUCTORS SHALL BE NO. 19 SOLID.
4. 3M "OPTICOM" MODEL 562, PHASE SELECTORS, MOUNTED ON 3M "OPTICOM" MODEL 360 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. 3M "OPTICOM" MODEL 511, OPTICAL DETECTORS, SINGLE DIRECTION, SIGNAL CHANNEL (1D/1C), OR APPROVED EQUAL. 3M "OPTICOM" MODEL 138, DETECTOR CABLE OR APPROVED EQUAL.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
		METER PEDESTAL
		CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER
		POLE WITH MASTARM, TRAFFIC SIGNAL AND BACKPLATE
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE

DEFINITIONS

1. "ENGINEER" - FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: TRAFFIC SIGNAL NOTES AND LEGEND					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO. 3727.90		MAP NO. A-13/B-13		SHEET 37 OF 72	

SCANNED BY
BY LASON

TRAFFIC SIGNAL ESTIMATED QUANTITIES							
ITEM NO	ITEM DESCRIPTION	UNIT	LOCATION				TOTAL
			ELLISON CIBOLA LOOP	ELLISON 78AR LOOP NORTH	ELLISON 78AR LOOP SOUTH	INTER-CONNECT	
0421.05	SERVICE RISER (SIGNAL)	EACH	(1) •	0	0	0	0
0421.11	METER PEDESTAL (SIGNAL)	EACH	(1) •	0	0	0	0
0422.01	TRAFFIC SIGNAL PEDESTAL POLE, 2 FOOT	EACH	0	0	0	(3) •	0
0422.03	TRAFFIC SIGNAL PEDESTAL POLE, 13 FOOT	EACH	(2) •	0	0	0	0
0422.16	TRAFFIC SIGNAL MASTARM, 30 FOOT ARM, TYPE II, TROMBONE	EACH	(1) •	0	0	0	0
0422.18	TRAFFIC SIGNAL MASTARM, 35 FOOT ARM, TYPE II, TROMBONE	EACH	(3) •	0	0	0	0
0423.01	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE	EACH	(2) •	0	0	0	0
0423.02	TRAFFIC SIGNAL MASTARM FOUNDATION	EACH	(4) •	0	0	0	0
0423.03	TRAFFIC CONTROLLER FOUNDATION (TYPE P CABINETS)	EACH	(1) •	0	0	0	0
0423.05	TRAFFIC SIGNAL FOUNDATION FOR SPLICE CABINET	EACH	0	0	0	(3) •	0
0424.01	RIGID ELECTRICAL CONDUIT, 1"	LIN FT	70	90	90	0	250
0424.05	RIGID ELECTRICAL CONDUIT, 2"	LIN FT	260	340	315	0	915
0424.10	RIGID ELECTRICAL CONDUIT, 3"	LIN FT	915	940	915	230 (4490) •	3000
0425.02	ELECTRICAL PULL BOX, STANDARD	EACH	411	12	12	(12) •	3235
0425.03	ELECTRICAL PULL BOX, LARGE	EACH	10	9	9	0	28
0425.10	SPLICE CABINET	EACH	0	0	0	(3) •	0
0425.20	TRAFFIC SIGNAL MANHOLE	EACH	0	0	0	(8) •	0
0426.02	SINGLE CONDUCTOR, 4	LIN FT	300	0	0	0	300
0426.04	SINGLE CONDUCTOR, 8	LIN FT	640	0	0	0	640
0426.10	MULTI-CONDUCTOR CABLE 5	LIN FT	2035	0	0	0	2035
0426.11	MULTI-CONDUCTOR CABLE 7	LIN FT	150	0	0	0	150
0426.14	MULTI-CONDUCTOR CABLE 20	LIN FT	1280	0	0	0	1280
0426.20	COMMUNICATION CABLE 6 PAIR	LIN FT	0	0	0	(15) •	0
0426.21	COMMUNICATION CABLE 12 PAIR	LIN FT	0	0	0	(906) •	0
0427.02	3 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	(12) •	0	0	0	0
0427.12	5 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	(4) •	0	0	0	0
0427.21	PEDESTRIAN SIGNAL (NEON)	EACH	(8) •	0	0	0	0
0427.31	3 SECTION BACKPLATE	EACH	(6) •	0	0	0	0
0428.01	LOOP VEHICLE DETECTOR	EACH	05	0	0	0	05
0428.10	PEDESTRIAN PUSH BUTTON STATION	EACH	(8) •	0	0	0	0
0428.21	LOOP DETECTOR WIRE	LIN FT	2586	0	0	0	2586
0428.50	LOOP LEAD-IN CABLE	LIN FT	2410	0	0	0	2410
0428.60	DETECTOR SAW CUT	LIN FT	866	0	0	0	866
0428.71	PHASE SELECTOR MODULE, 2 CHANNEL	EACH	(2) •	0	0	0	0
0428.75	OPTICAL DETECTOR 10/10	EACH	(4) •	0	0	0	0
0428.78	OPTICAL DETECTOR CABLE (FURNISH & INSTALL)	LIN FT	100895	0	0	0	100895
0428.78A	OPTICAL DETECTOR CABLE (FURNISH ONLY)	LIN FT	195	0	0	0	195

TRAFFIC SIGNAL ESTIMATED QUANTITIES							
ITEM NO	ITEM DESCRIPTION	UNIT	LOCATION				TOTAL
			ELLISON CIBOLA LOOP	ELLISON 78AR LOOP NORTH	ELLISON 78AR LOOP SOUTH	INTER-CONNECT	
0429.01	TRAFFIC ACTUATED CONTROLLER	EACH	(1) •	0	0	0	0
0429.10	SYSTEM MASTER	EACH		0	0	0	0
0429.21	EIGHT PHASE DUAL RING CONTROLLER CABINET	EACH	(1) •	0	0	0	0
0450.01	ALUMINUM PANEL SIGN	EACH	04	0	0	0	04

• NOT IN THIS CONTRACT - FOR INFORMATION ONLY



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

SCANNED BY
BY LASON

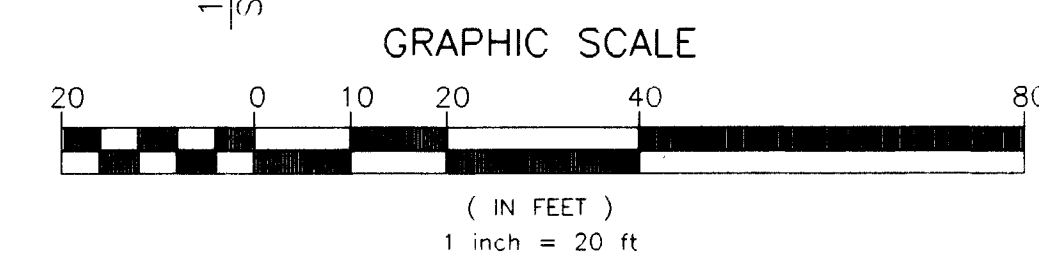
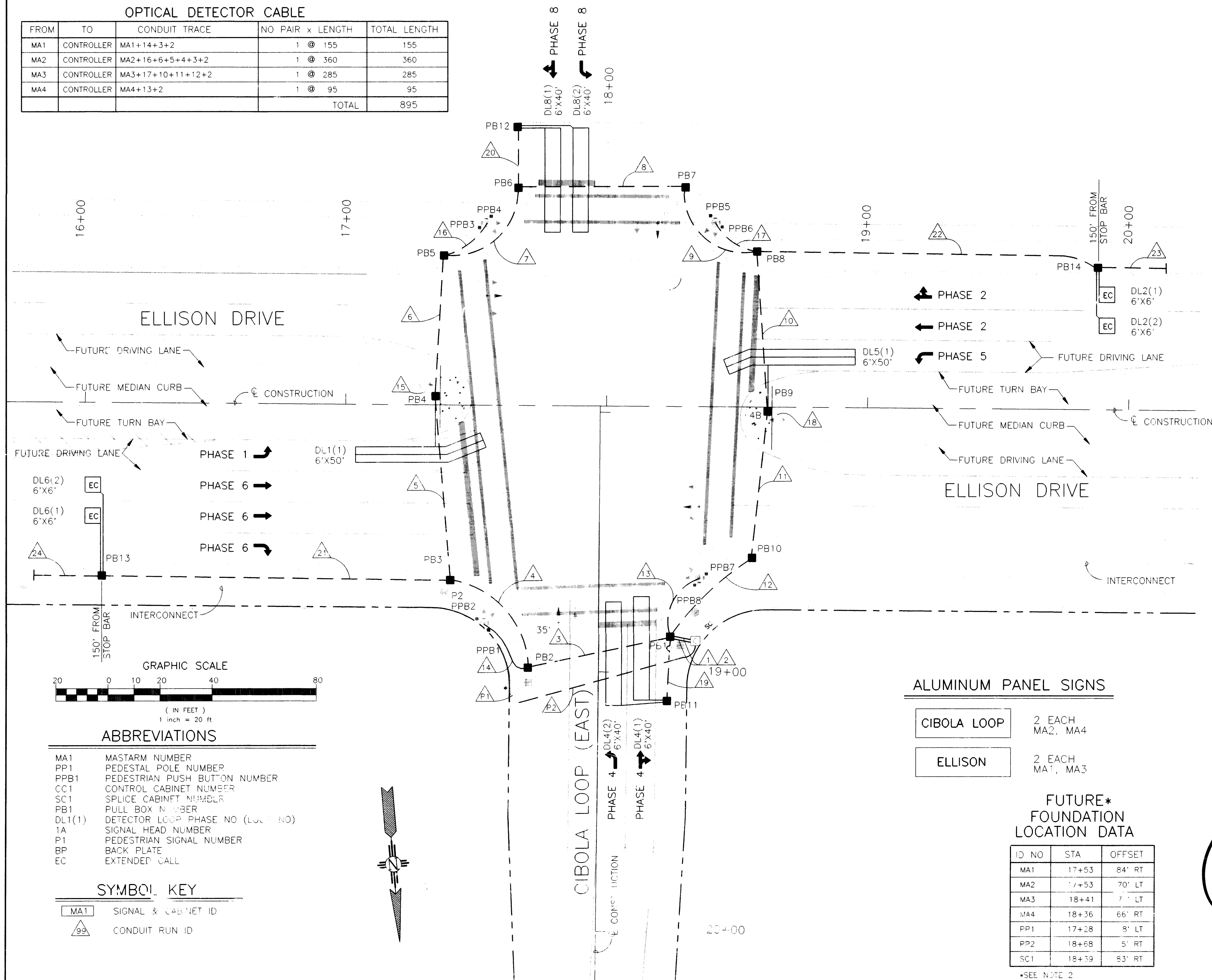
CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: TRAFFIC SIGNAL ESTIMATED QUANTITIES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727.90	MAP NO.	A-13/B-13	SHEET	OF
				38	71

LOOP LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	NO. PAIR x LENGTH	TOTAL LENGTH
PB4	CONTROLLER	5+4+3+2	1 @ 215	215
PB9	CONTROLLER	11+4+2	1 @ 135	135
PB11	CONTROLLER	19+2	2 @ 45	90
PB12	CONTROLLER	20+8+9+10+11+12+2	2 @ 355	710
PB13	CONTROLLER	21+4+3+2	2 @ 280	560
PB14	CONTROLLER	22+10+11+12+2	2 @ 350	700
TOTAL				2410

OPTICAL DETECTOR CABLE

FROM	TO	CONDUIT TRACE	NO. PAIR x LENGTH	TOTAL LENGTH
MA1	CONTROLLER	MA1+14+3+2	1 @ 155	155
MA2	CONTROLLER	MA2+16+6+5+4+3+2	1 @ 360	360
MA3	CONTROLLER	MA3+17+10+11+12+2	1 @ 285	285
MA4	CONTROLLER	MA4+13+2	1 @ 95	95
TOTAL				895



ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER
DL1(1)	DETECTOR LOOP PHASE NO. (LOOP NO.)
1A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
EC	EXTENDED CALL

SYMBOL KEY

MA1	SIGNAL & CABINET ID
99	CONDUIT RUN ID

ALUMINUM PANEL SIGNS

CIBOLA LOOP	2 EACH MA2, MA4
ELLISON	2 EACH MA1, MA3

FUTURE* FOUNDATION LOCATION DATA

ID NO	STA	OFFSET
MA1	17+53	84' RT
MA2	17+53	70' LT
MA3	18+41	7' LT
MA4	18+36	66' RT
PP1	17+28	8' LT
PP2	18+68	5' RT
SC1	18+39	93' RT

*SEE NOTE 2

INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

NOTES:

- PULL BOXES 1 THROUGH 10 ARE LARGE SIZE, AND PULL BOXES 11 THROUGH 14 ARE STANDARD SIZE.
- FOR THIS PROJECT, INSTALL STANDARD SIZE PULL BOXES (NOT FOUNDATIONS) AT MA1, MA2, MA3, MA4, PP1, PP2 AND SC1. LOCATION: 9' EACH.

VOID

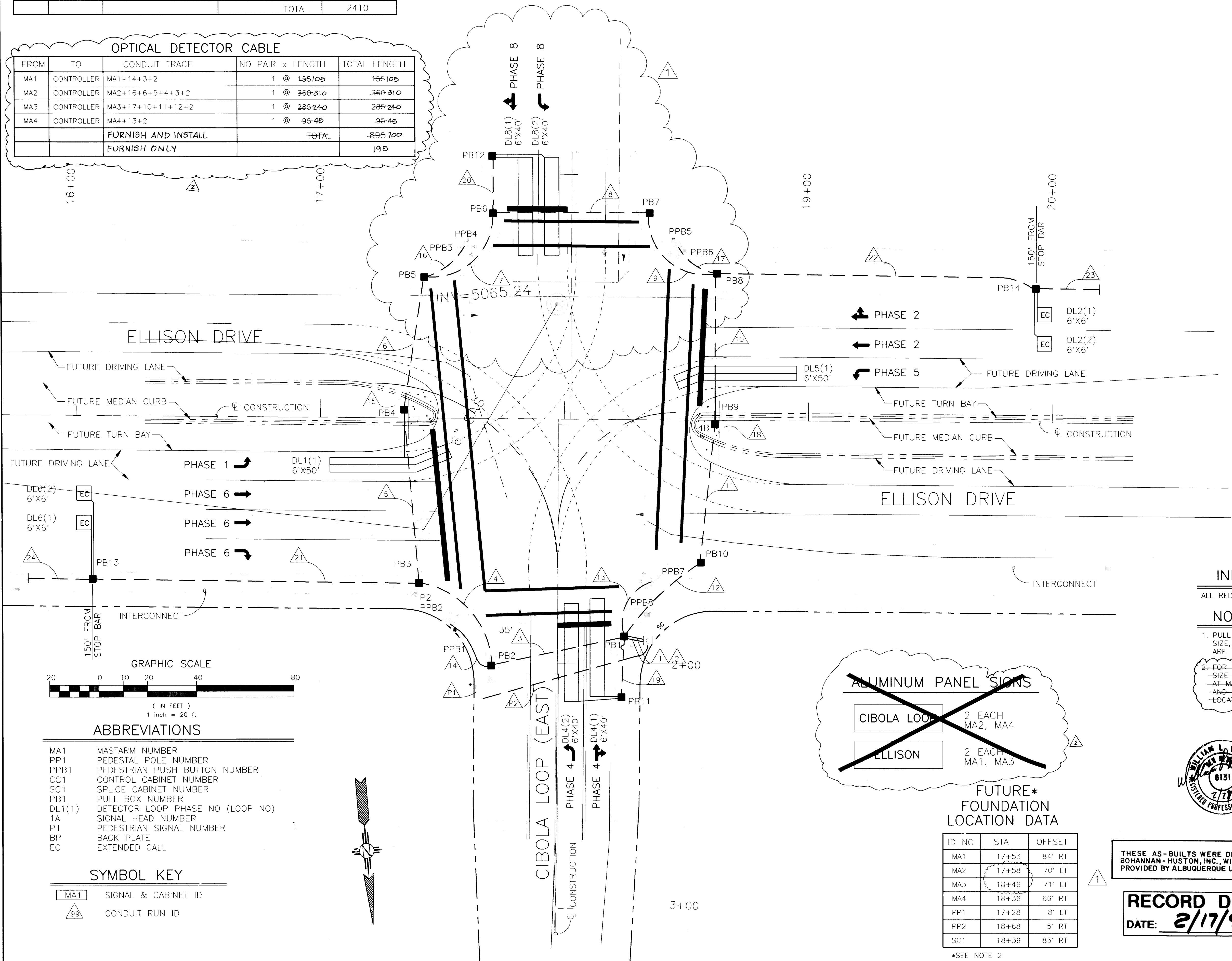
SCANNED BY
B. LARSON

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: ELLISON DRIVE TRAFFIC SIGNAL PLAN ELLISON DRIVE / CIBOLA LOOP (EAST)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO. 3727.01		MAP NO. A-13		SHEET 39 OF 72	

VOID

LOOP LEAD-IN CABLE				
FROM	TO	CONDUIT TRACE	NO PAIR x LENGTH	TOTAL LENGTH
PB4	CONTROLLER	5+4+3+2	1 @ 215	215
PB9	CONTROLLER	11+12+2	1 @ 135	135
PB11	CONTROLLER	19+2	2 @ 45	90
PB12	CONTROLLER	20+8+9+10+11+12+2	2 @ 355	710
PB13	CONTROLLER	21+4+3+2	2 @ 280	560
PB14	CONTROLLER	22+10+11+12+2	2 @ 350	700
			TOTAL	2410

OPTICAL DETECTOR CABLE				
FROM	TO	CONDUIT TRACE	NO PAIR x LENGTH	TOTAL LENGTH
MA1	CONTROLLER	MA1+14+3+2	1 @ 155105	155105
MA2	CONTROLLER	MA2+16+6+5+4+3+2	1 @ 360310	360310
MA3	CONTROLLER	MA3+17+10+11+12+2	1 @ 285240	285240
MA4	CONTROLLER	MA4+13+2	1 @ 9545	9545
			TOTAL	895700
			FURNISH AND INSTALL	
			FURNISH ONLY	195



INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

NOTES:

- PULL BOXES 1 THROUGH 10 ARE LARGE SIZE, AND PULL BOXES 11 THROUGH 14 ARE STANDARD SIZE.
- FOR THIS PROJECT, INSTALL STANDARD SIZE PULL BOXES (NOT FOUNDATIONS) AT MA1, MA2, MA3, MA4, PP1, PP2 AND SC1. LOCATION: 9 EACH.



SCANNED BY
BY LASON

FUTURE* FOUNDATION LOCATION DATA

ID NO	STA	OFFSET
MA1	17+53	84' RT
MA2	17+58	70' LT
MA3	18+46	71' LT
MA4	18+36	66' RT
PP1	17+28	8' LT
PP2	18+68	5' RT
SC1	18+39	83' RT

*SEE NOTE 2

RECORD DRAWING
DATE: 2/17/97

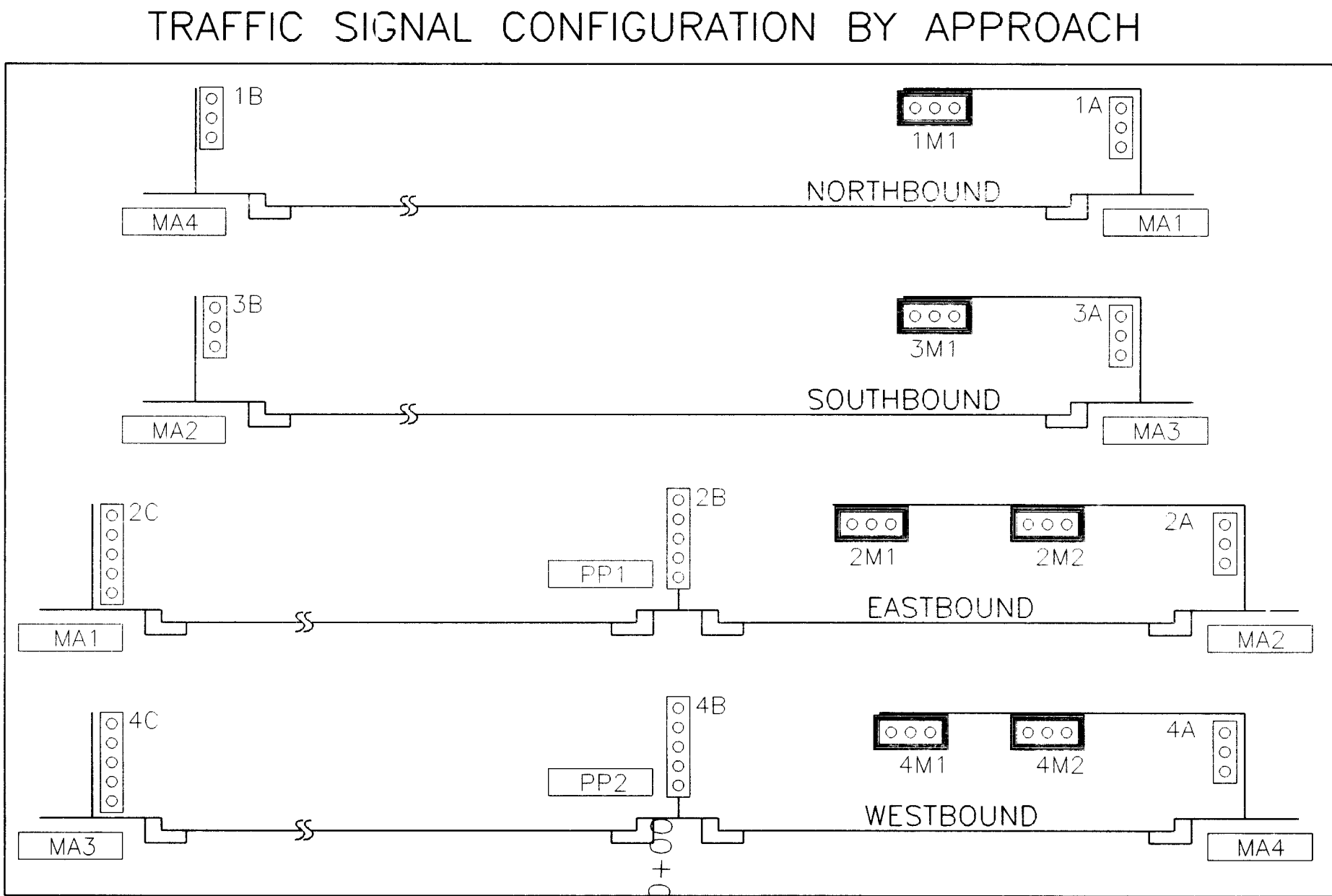
CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: ELLISON DRIVE TRAFFIC SIGNAL PLAN ELLISON DRIVE / CIBOLA LOOP (EAST)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF OPER.		
DRAWING NO.	3727	MAP NO.	A-13	SHEET	39R OF 72

AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE					FIELD	NOTES				
STARTED BY	DATE					NO.	BY	DATE			
INSPECTOR'S	DATE										
FIELD	DATE										
VERIFICATION BY	DATE										
CORRECTED BY	DATE										
MICRO-FILM INFORMATION											
RECORDED BY	DATE										
NO.											

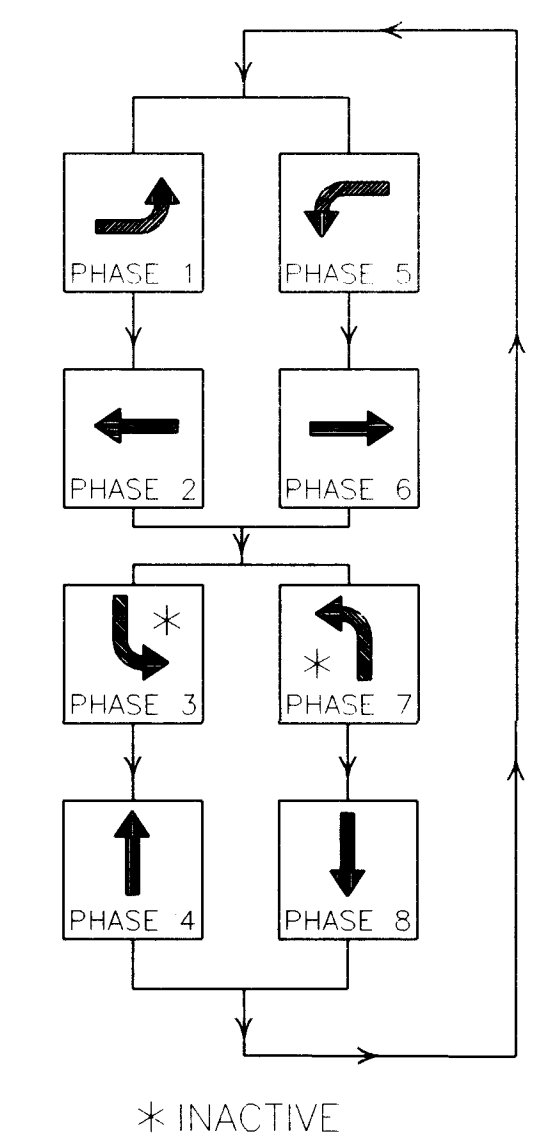
Chew J. J. J.
REV #1 7-26-96

LOOP LEAD-IN CABLE				
FROM	TO	CONDUIT TRACE	NO. PAIR x LENGTH	TOTAL LENGTH
PB4	CONTROLLER	5+4+3+2	1 @ 215	215
PB9	CONTROLLER	11+12+2	1 @ 135	135
PB11	CONTROLLER	19+2	2 @ 45	90
PB12	CONTROLLER	20+8+9+10+11+12+2	2 @ 355	710
PB13	CONTROLLER	21+4+3+2	2 @ 280	560
PB14	CONTROLLER	22+10+11+12+2	2 @ 350	700
			TOTAL	2410

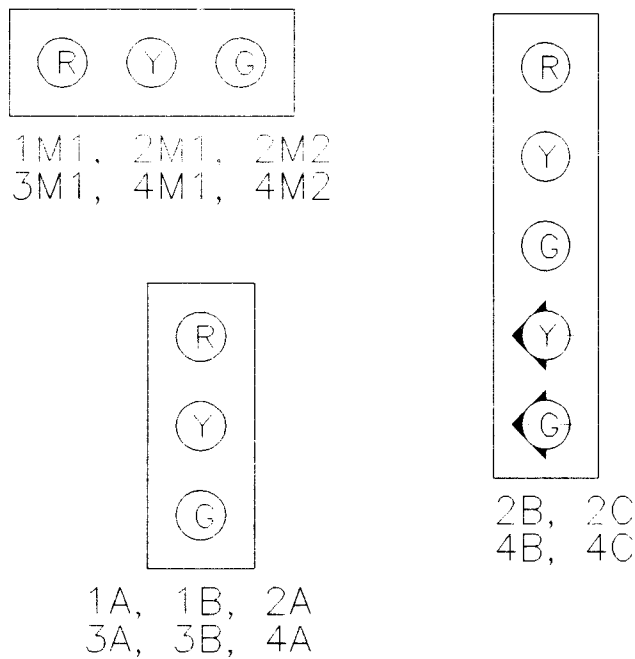
OPTICAL DETECTOR CABLE				
FROM	TO	CONDUIT TRACE	NO. PAIR x LENGTH	TOTAL LENGTH
MA1	CONTROLLER	MA1+14+3+2	1 @ 155	155
MA2	CONTROLLER	MA2+16+6+5+4+3+2	1 @ 360	360
MA3	CONTROLLER	MA3+17+10+11+12+2	1 @ 285	285
MA4	CONTROLLER	MA4+13+2	1 @ 95	95
			TOTAL	895



SIGNAL PHASING



TYPICAL SIGNAL FACE LENS ARRANGEMENTS



3 SECTION BACK PLATE
1M1, 2M1, 2M2
3M1, 4M1, 4M2



P1, P2, P3, P4,
P5, P6, P7, P8

INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

FLASH CONDITION

RED BALL → HEADS: 1A, 1B, 1M1,
3A, 3B, 3M1
RED ARROW → HEADS: 2A, 2B, 2C, 2M1, 2M2,
4A, 4B, 4C, 4M1, 4M2

NOTES:

PULL BOXES 1 THROUGH 10 ARE LARGE
SIZE, AND PULL BOXES 11 THROUGH 14
ARE STANDARD SIZE.

ALUMINUM PANEL SIGNS

CIBOLA LOOP

2 EACH
MA2, MA4

ELLISON

2 EACH
MA1, MA3

FOUNDATION
LOCATION DATA

ID NO	STA	OFFSET
MA1	17+53	84' RT
MA2	17+58	70' LT
MA3	18+46	71' LT
MA4	18+36	66' RT
PP1	17+28	8' LT
PP2	18+68	5' RT
SC1	18+39	83' RT

CABINETS

ID NO	TYPE	FOUNDATION
CC1	P	CONTROLLER
SC1	SPLICE CABINET	PEDESTAL

SIGNAL POLES AND
MASTARMS

ID NO	TYPE	FOUNDATION
MA1	MASTARM - 35'	MASTARM
MA2	MASTARM - 35'	MASTARM
MA3	MASTARM - 30'	MASTARM
MA4	MASTARM - 35'	MASTARM
PP1	PED. POLE - 13'	PEDESTAL
PP2	PED. POLE - 13'	PEDESTAL



CITY OF ALBUQUERQUE
PUBLIC WORKS
ENGINEERING

TITLE:

ELLISON DRIVE
TRAFFIC SIGNAL PLAN
ELLISON DRIVE / CIBOLA LOOP (EAST)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG. CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		

DRAWING NO.	3727	MAP NO.	A-13	SHEET	1	OF	2
-------------	------	---------	------	-------	---	----	---

CONDUIT AND CONDUCTOR REQUIREMENTS															
CONDUIT LENGTH, SIZE, AND TYPE					CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE										
RUN ID ▲	SIZE/LENGTH			TYPE	REMARKS	MCC 5	MCC 7	MCC 20	SCC #8	SCC #4	DLIC	CC 6	CC 12	OPTICOM	OTHER
	1"	2"	3"			(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)
P1		15'		REC	POWER TO METER					3# 20'					
P2		75'		REC	METER TO CC1					3# 80'					
1			10'	REC	CC1 TO PB1	1# 15'		2# 15'	1# 15'						
2			10'	REC	CC1 TO PB1					10# 15'				4# 15'	
3			60'	REC	PB1 TO PB2	1# 65'		2# 65'	1# 65'	3# 65'				2# 65'	
4			50'	REC	PB2 TO PB3	1# 55'		2# 55'	1# 55'	3# 55'				1# 55'	
5			75'	REC	PB3 TO PB4	1# 80'		2# 80'	1# 80'	1# 80'				1# 80'	
6			60'	REC	PB4 TO PB5	1# 65'		2# 65'	1# 65'					1# 65'	
7			45'	REC	PB5 TO PB6	1# 50'		2# 50'	1# 50'						
8			65'	REC	PB6 TO PB7	1# 70'		2# 70'	1# 70'	2# 70'					
9			45'	REC	PB7 TO PB8	1# 50'		2# 50'	1# 50'	2# 50'					
10			65'	REC	PB8 TO PB9	1# 70'		2# 70'	1# 70'	4# 70'				1# 70'	
11			60'	REC	PB9 TO PB10	1# 65'		2# 65'	1# 65'	5# 65'				1# 65'	
12			50'	REC	PB10 TO PB1	1# 55'		2# 55'	1# 55'	5# 55'				1# 55'	
13		25'		REC	PB1 TO MA4	8# 30'								1# 30'	
14		20'		REC	PB2 TO MA1	6# 25'	1# 25'							1# 25'	
15		10'		REC	PB4 TO PP1		1# 15'								
16		25'		REC	PB5 TO MA2	8# 30'								1# 30'	
17		30'		REC	PB8 TO MA3	6# 35'	1# 35'							1# 35'	
18		10'		REC	PB9 TO PP2		1# 15'								
19		25'		REC	PB1 TO PB11					2# 30'					
20		25'		REC	PB6 TO PB12					2# 30'					
21			140'	REC	PB3 TO PB13					2# 145'					
22			140'	REC	PB8 TO PB14					2# 145'					
23		20'		REC	STUB OUT (FLASHER)										
24		20'		REC	STUB OUT (FLASHER)										
		70'		REC	LOOP TERMINATIONS										

FURNISH & INSTALL



THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

CONDUIT AND CONDUCTOR REQUIREMENTS (CONTINUED)															
CONDUIT LENGTH, SIZE, AND TYPE					CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE										
RUN ID 	SIZE/LENGTH			TYPE	REMARKS	MCC 5	MCC 7	MCC 20	SCC#8	SCC#4	DLIC	CC 6	CC 12	OPTICOM	OTHER
	1"	2"	3"			(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)
MA1					BASE TO 1A	1 • 15'									
MA1					BASE TO 2C		1 • 15'								
MA1					BASE TO 1M1	1 • 55'									
MA1					BASE TO P1 & P2	2 • 15'									
MA1					BASE TO PPB1 & PPB2	2 • 5'									
MA1					BASE TO OPTICOM									1 • 50'	
MA2					BASE TO 2A	1 • 15'									
MA2					BASE TO 3B	1 • 15'									
MA2					BASE TO 2M1	1 • 55'									
MA2					BASE TO 2M2	1 • 45'									
MA2					BASE TO P3 & P4	2 • 15'									
MA2					BASE TO PPB3 & PPB4	2 • 5'									
MA2					BASE TO OPTICOM									1 • 50'	
MA3					BASE TO 3A	1 • 15'									
MA3					BASE TO 4C		1 • 15'								
MA3					BASE TO 3M1	1 • 50'									
MA3					BASE TO P5 & P6	2 • 15'									
MA3					BASE TO PPB5 & PPB6	2 • 5'									
MA3					BASE TO OPTICOM									1 • 45'	
MA4					BASE TO 4A	1 • 15'									
MA4					BASE TO 1B	1 • 15'									
MA4					BASE TO 4M1	1 • 55'									
MA4					BASE TO 4M2	1 • 45'									
MA4					BASE TO P7 & P8	2 • 15'									
MA4					BASE TO PPB7 & PPB8	2 • 5'									
MA4					BASE TO OPTICOM									1 • 50'	
PP1					BASE TO 2B		1 • 15'								
PP2					BASE TO 4B		1 • 15'								
							</								

FURNISH ONLY

ABBREVIATIONS

CC 6	COMMUNICATION CABLE - 6 PAIR
CC 12	COMMUNICATION CABLE - 12 PAIR
DL	DETECTOR LOOP
MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE

SCANNED BY
BY LASON

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: TRAFFIC SIGNAL CONDUITS & CABLES ELLISON/CIBOLA LOOP					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727.90	MAP NO.	A-13/B-13	SHEET	40 OF 72

DETECTOR LOOPS											
LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO	CHANNEL		L	W	S	T		
DL1 (1)	PRESENCE		ONE	CH 1	OP	50'	6'	3'	20'	475'	165'
DL2 (1)	PRESENCE	EXTEND 3	FOUR	CH 1	EC	6'	6'	3'	5'	93'	27'
DL2 (2)	PRESENCE	EXTEND 3	FOUR	CH 1	EC	6'	6'	15'	5'	117'	39'
DL4 (1)	PRESENCE		SIX	CH 1	RECT	40'	6'	3'	5'	292'	95'
DL4 (2)	PRESENCE		SIX	CH 2	RECT	40'	6'	15'	5'	316'	107'
DL5 (1)	PRESENCE		ONE	CH 2	OP	50'	6'	3'	20'	475'	165'
DL6 (1)	PRESENCE	EXTEND 3	FOUR	CH 2	EC	6'	6'	3'	5'	93'	27'
DL6 (2)	PRESENCE	EXTEND 3	FOUR	CH 2	EC	6'	6'	15'	5'	117'	39'
DL8 (1)	PRESENCE		SEVEN	CH 1	RECT	40'	6'	3'	5'	292'	95'
DL8 (2)	PRESENCE		SEVEN	CH 2	RECT	40'	6'	15'	5'	316'	107'
TOTALS										2586 LF	866 LF

QUANTITY ESTIMATING ASSUMPTIONS:

LOOP WIRE

$6' \times 30' \text{ OP LOOP} = (8 \times L) + (4 \times W) + (2 \times S) + (2 \times T) + 5 = 269 + 2(S+T)$
 $6' \times 40' \text{ OP LOOP} = (8 \times L) + (4 \times W) + (2 \times S) + (2 \times T) + 5 = 349 + 2(S+T)$
 $6' \times 50' \text{ OP LOOP} = (8 \times L) + (4 \times W) + (2 \times S) + (2 \times T) + 5 = 429 + 2(S+T)$
 $6' \times 6' \text{ EC LOOP} = (6 \times L) + (6 \times W) + (2 \times S) + (2 \times T) + 5 = 77 + 2(S+T)$
 $6' \times 6' \text{ SYS LOOP} = (6 \times L) + (6 \times W) + (2 \times S) + (2 \times T) + 5 = 96 + 2(S+T)$

PAVEMENT SAWCUT

$6' \times 30' \text{ OP LOOP} = (3 \times L) + (2 \times W) + S = 102 + S$
 $6' \times 40' \text{ OP LOOP} = (3 \times L) + (2 \times W) + S = 132 + S$
 $6' \times 50' \text{ OP LOOP} = (3 \times L) + (2 \times W) + S = 162 + S$
 $6' \times 6' \text{ EC LOOP} = (2 \times L) + (2 \times W) + S = 24 + S$
 $6' \times 6' \text{ SYS LOOP} = (2 \times L) + (2 \times W) + S = 24 + S$

WHERE:

L = DETECTOR LOOP LENGTH (FROM PLAN)
 W = DETECTOR LOOP WIDTH (FROM PLAN)
 S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
 T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

DETECTOR RACK ASSIGNMENTS - 8 PHASE DUAL RING 16 POSITION RACK

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CHANNEL 1 →		Φ1	Φ2	Φ6	Φ2 EC	Φ3	Φ4	Φ8	Φ4 EC	SD 1	SD 3	SD 5	SD 7	SD 9	PED ISOLATION	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		Φ5	Φ2	Φ6	Φ6 EC	Φ7	Φ4	Φ8	Φ8 EC	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*	✓	✓		✓		✓	✓							*	✓	✓

* INCIDENTAL TO CONSTRUCTION

FUNCTION CHART - 115 VOLT CIRCUIT

CONDUCTOR			RING 1 - MULTI CONDUCTOR CABLE 20		RING 2 - MULTI CONDUCTOR CABLE 20	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	-	SPARE	SPARE	SPARE	SPARE
2	WHITE	-	SPARE	SPARE	SPARE	SPARE
3	RED	-	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	-	PHASE 1 GREEN	GREEN LEFT TURN ARROW 4B, 4C	PHASE 5 GREEN	GREEN LEFT TURN ARROW 2B, 2C
5	ORANGE	-	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 4B, 4C	PHASE 5 YELLOW	YELLOW LEFT TURN ARROW 2B, 2C
6	BLUE	-	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2A, 2B, 2C, 2M1, 2M2	PHASE 6 RED	RED BALL 4A, 4B, 4C, 4M1, 4M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2A, 2B, 2C, 2M1, 2M2	PHASE 6 GREEN	GREEN BALL 4A, 4B, 4C, 4M1, 4M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2A, 2B, 2C, 2M1, 2M2	PHASE 6 YELLOW	YELLOW BALL 4A, 4B, 4C, 4M1, 4M2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P4, P5	PHASE 6 WALK	PEDESTRIAN WALK P1, P8
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P4, P5	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P1, P8
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	PHASE 7 GREEN	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	PHASE 7 YELLOW	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL 1A, 1B, 1M1	PHASE 8 RED	RED BALL 3A, 3B, 3C, 3M
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 1A, 1B, 1M1	PHASE 8 GREEN	GREEN BALL 3A, 3B, 3C, 3M
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 1A, 1B, 1M1	PHASE 8 YELLOW	YELLOW BALL 3A, 3B, 3M
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P6, P7	PHASE 8 WALK	PEDESTRIAN WALK P2, P3
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P6, P7	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P2, P3

FUNCTION CHART - 24 VOLT CIRCUIT

MULTI CONDUCTOR CABLE 5			
CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB4 & PPB5
2	WHITE	COMMON	PPB1 THRU PPB8
3	RED	PHASE 4 PPB	PPB6 & PPB7
4	GREEN	PHASE 6 PPB	PPB2 & PPB8
5	ORANGE	PHASE 8 PPB	PPB1 & PPB3

ABBREVIATIONS

DL DETECTOR LOOP
 EC EXTENDED CALL LOOP
 L DETECTOR LOOP LENGTH
 W DETECTOR LOOP WIDTH
 S SAWCUT LOOP TO CURB
 T TERMINAL LENGTH
 OP QUADRAPOLE LOOP
 RECT RECTANGULAR LOOP

NOTES:

- IDENTIFY CONDUCTORS LISTED AS "115 VOLTS"
- WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE BOX AND LOCATED 6" BACK FROM THE END.
- IDENTIFY CONDUCTORS LISTED AS "PPB - LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.
- CONDUCTOR CABLE RUNS TO TRAFFIC SIGNALS, PEDESTRIAN SIGNALS, AND PEDESTRIAN PUSH BUTTONS SHALL BE SPLICED INTO THE MAIN CONDUCTORS AT THE NEAREST PULLBOX AND RUN WITHOUT ADDITIONAL SPLICES INTO EACH SIGNAL HEAD OR PUSH BUTTON ASSEMBLY.

SCANNED BY LASON

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING		TITLE: TRAFFIC SIGNAL FUNCTIONS & DETECTORS ELLISON/CIBOLA LOOP	
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN			WATER
TRANSPORTATION			WASTE WATER
HYDROLOGY			TRAF. OPER.
DRAWING NO.	3727.90	MAP NO.	A-13/B-13
SHEET	41	OF	72



1. PULL BOXES 1 THROUGH 9 ARE LARGE SIZE, AND PULL BOXES 10 THROUGH 12 ARE STANDARD SIZE.
2. FOR THIS PROJECT, INSTALL STANDARD SIZE PULL BOXES (NOT FOUNDATIONS) AT MA1, MA2, PP1, PP2, PP3, PP4, PP5, CC2, AND METER PEDESTAL LOCATION: 9 EACH

FUTURE*
FOUNDATION
LOCATION DATA

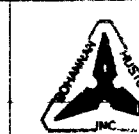
ID NO	STA	OFFSET
MA1	48+20	79' RT
MA2	47+28	60' LT
PP1	47+28	89' RT
PP2	47+09	4' LT
PP3	47+81	62' LT
PP4	48+18	62' LT
PP5	48+49	21' RT

*SEE NOTE 2

ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION		
DESIGNED BY BHI DRAWN BY BHI	DATE 5-95	DATE 5-95	CHANG W JONES 3-19-96	FIELD NOTES						
				NO.	BY					DATE
								</		

Chas W. Jones
1996

DESIGNED BY BHI	DATE 5-95
DRAWN BY BHI	DATE 5-95

CITY OF ALBUQUERQUE
PUBLIC WORKS
ENGINEERING

TITLE: ELLISON DRIVE
TRAFFIC SIGNAL PLAN
ELLISON DRIVE / 7 BAR LOOP (NORTH)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. [Signature]		WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		

DRAWING NO.	3727.90	MAP NO.	A-13	SHEET	42	OF	72
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SCANNED BY
BY LASON



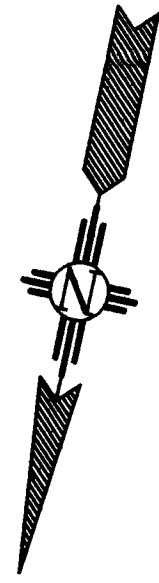
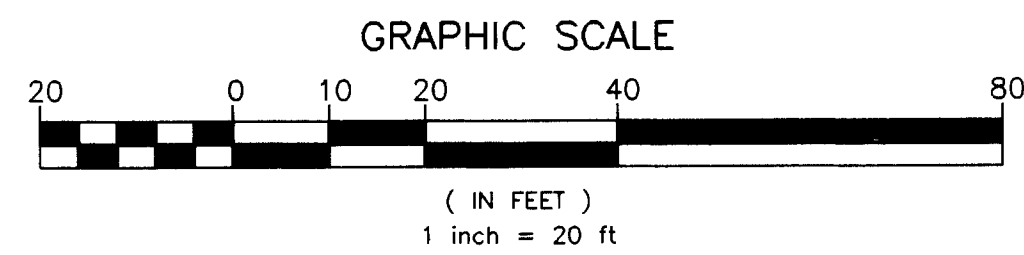
THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: **2/17/97**

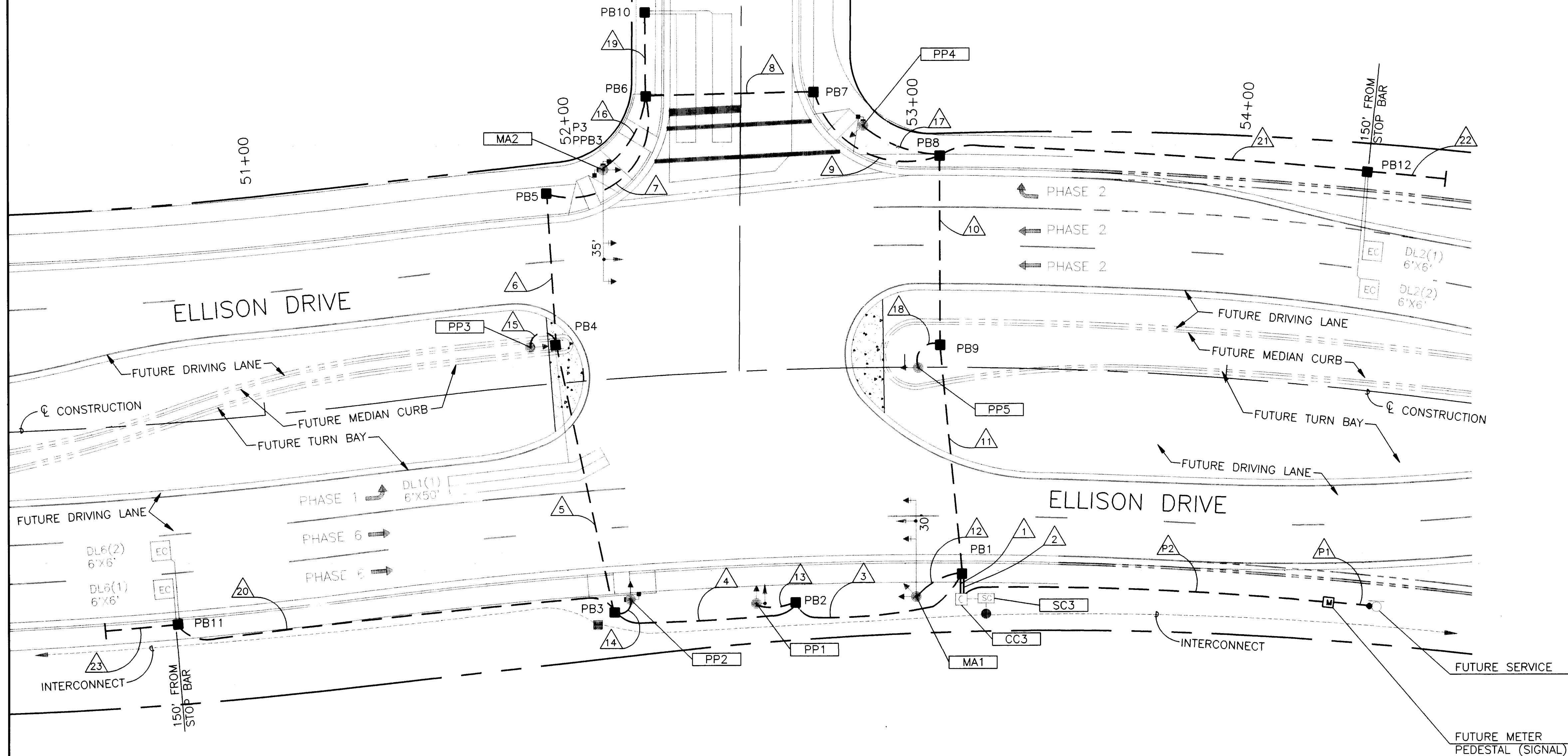
[illegible]

SIGNAL RUNS	INTERSECTION "BOX" RUNS	POWER
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AS-BUILT INFORMATION	
CONTRACTOR	ALCI
WORK	DATE
INSPECTED BY	DATE 2/97
INSPECTOR'S	DATE 2/97
ACCEPTANCE BY	DATE 2/97
IDENTIFICATION BY	DATE 2/97
DRAWINGS	DATE 2/97
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	



7 BAR LOOP (SOUTH)



NOTES:

- PULL BOXES 1 THROUGH 9 ARE LARGE SIZE, AND PULL BOXES 10 THROUGH 12 ARE STANDARD SIZE.
- FOR THIS PROJECT, INSTALL STANDARD SIZE PULL BOXES (NOT FOUNDATIONS) AT MA1, MA2, PP1, PP2, PP3, PP4, PP5, CC3, AND METER PEDESTAL LOCATION: 9 EACH.

FUTURE* FOUNDATION LOCATION DATA

ID NO	STA	OFFSET
MA1	53+04	72' RT
MA2	52+11	65' LT
PP1	52+51	73' RT
PP2	52+09	69' RT
PP3	51+84	12' LT
PP4	52+88	76' LT
PP5	53+04	ON CL

*SEE NOTE 2

ABBREVIATIONS

MA1	MASTARM NUMBER (FUTURE)
PP1	PEDESTAL POLE NUMBER (FUTURE)
PPB1	PEDESTRIAN PUSH BUTTON NUMBER (FUTURE)
CC1	CONTROL CABINET NUMBER (FUTURE)
SC1	SPLICE CABINET NUMBER (FUTURE)
PB1	PULL BOX NUMBER (NEW)
DL1(1)	DETECTOR LOOP PHASE NO (LOOP NO)(FUTURE)
1A	SIGNAL HEAD NUMBER (FUTURE)
P1	PEDESTRIAN SIGNAL NUMBER (FUTURE)
BP	BACK PLATE (FUTURE)
EC	EXTENDED CALL (FUTURE)

SYMBOL KEY

MA1	SIGNAL & CABINET ID (FUTURE)
99	CONDUIT RUN ID (NEW)

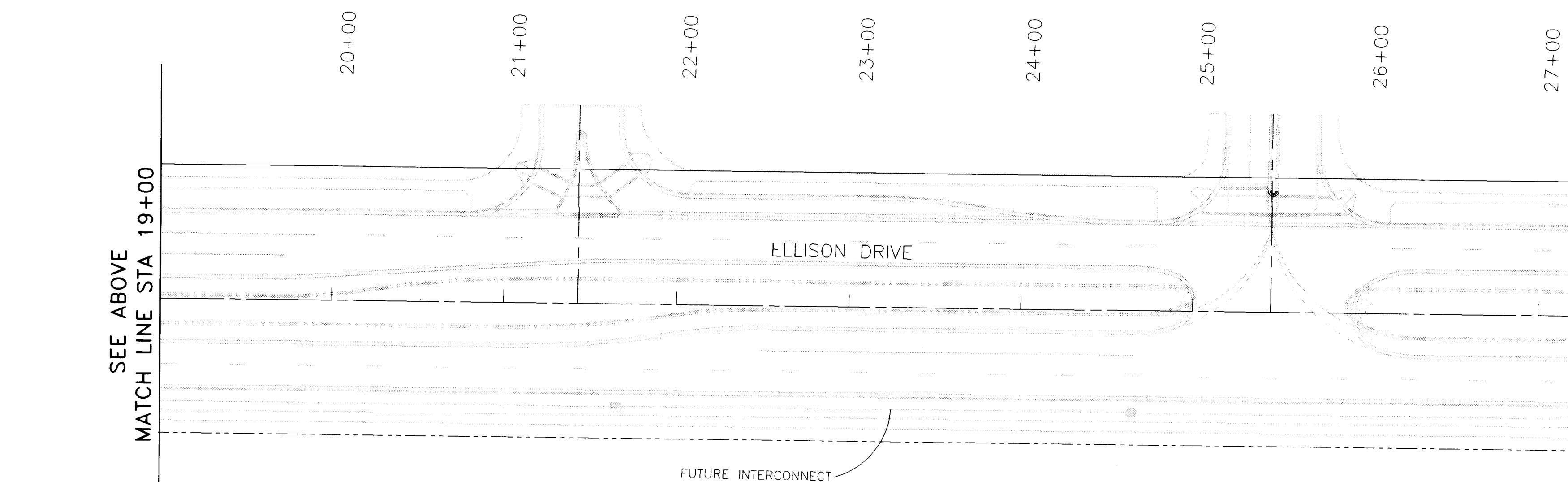
THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN - HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

SCANNED BY
BY LASON



CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: ELLISON DRIVE TRAFFIC SIGNAL PLAN ELLISON DRIVE / 7 BAR LOOP (SOUTH)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727.90	MAP NO.	A-13	SHEET	44 OF 72

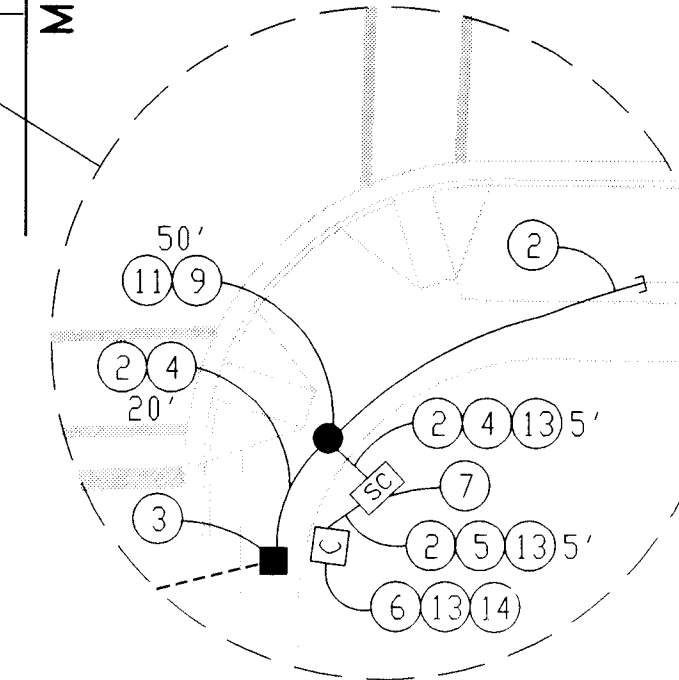


SEE ABOVE
MATCH LINE STA 19+00

MATCH LINE STA 28+00

MATCH LINE STA 19+00
SEE BELOW

SEE WIRING DETAIL 'A'
THIS SHEET



The diagram illustrates a control system with the following components and connections:

- TO BYPASS**: A signal path at the top left.
- CC1**: A control block on the left.
- SC**: A control block on the right.
- FUTURE**: A block indicated by a dashed line on the far right.
- Numbered Circles**:
 - 4**: Located at the top, connected to the 'TO BYPASS' path.
 - 5**: Located between 'CC1' and 'SC', connected to both.
 - 6**: Located at the bottom left, connected to 'CC1'.
 - 7**: Located at the bottom right, connected to 'SC'.

WIRING DETAIL "A"

THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN - HUSTON, INC., WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC

RECORD DRAWING
DATE: **2/17/97**

SCALE: 1"=50'

SCANNED BY
BY LASON

- KEYED NOTES

 - ① INSTALL NEW RIGID ELECTRICAL CONDUIT - 2"
 - ② INSTALL NEW RIGID ELECTRICAL CONDUIT - 3"
 - ③ INSTALL NEW ELECTRICAL PULL BOX, STANDARD
 - ④ INSTALL NEW COMMUNICATION CABLE, 12 PAIR
 - ⑤ INSTALL NEW COMMUNICATION CABLE, 6 PAIR
 - ⑥ CONNECT NEW COMMUNICATION CABLE TO SPlice BLOCK INSIDE NEW TRAFFIC CONTROL CABINET.
 - ⑦ INSTALL NEW SPlice CABINET INCLUDING TYPE 1 STANDARD - 2' & PEDESTAL FOUNDATION. CONNECT COMMUNICATION CABLES TO SPlice BLOCK IN NEW SPlice CABINET.
 - ⑧ ~~INSTALL EXPANSION COUPLING~~
 - ⑨ INSTALL NEW TRAFFIC MANHOLE
 - ⑩ ~~CONNECT TO NEW PULL BOX AT FUTURE TRAFFIC CONTROL CABINET LOCATION (SEE SIGNAL PLAN).~~
 - ⑪ COIL 50' OF COMMUNICATION CABLE, 12 PAIR INSIDE MANHOLE.
 - ⑫ INTERCONNECT LINES TO BE INSTALLED BY SAD 223 PROJECT.
 - ⑬ INSTALL NEW TELEPHONE SERVICE FROM TELEPHONE CLOSURE BOX AT CORDS BYPASS/ELLISION TO SIGNAL CONTROL CABINET AT ELLISION/ CIBOLA LOOP. NEW COMMUNICATION CABLE CAN BE USED FOR THIS SERVICE FROM CORDS BYPASS TO CIBOLA LOOP.
 - ⑭ INSTALL NEW TELEPHONE JACK, MODEM, AND SYSTEM MASTER INSIDE THIS CABINET.

WIRING DETAIL "A"

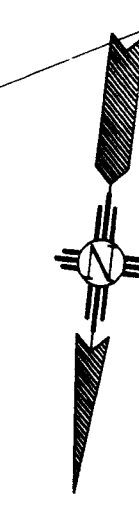
		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				FIELD NOTES				CONTRACTOR A.U.I.	
				NO.	BY	DATE			WORKED BY A.U.I. DATE 2/97
									SUPERVISOR
									ACCEPTANCE BY B.H.I. DATE 2/97
									VERIFICATION BY B.H.I. DATE 2/97
									DRAWINGS
									CHECKED BY B.H.I. DATE 2/97
									MICRO-FILM INFORMATION
DESIGNED BY BHI	DATE 5-95								
DRAWN BY BHI	DATE 5-95								
CHECKED BY BHI	DATE 5-95								

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	ELLISON DRIVE
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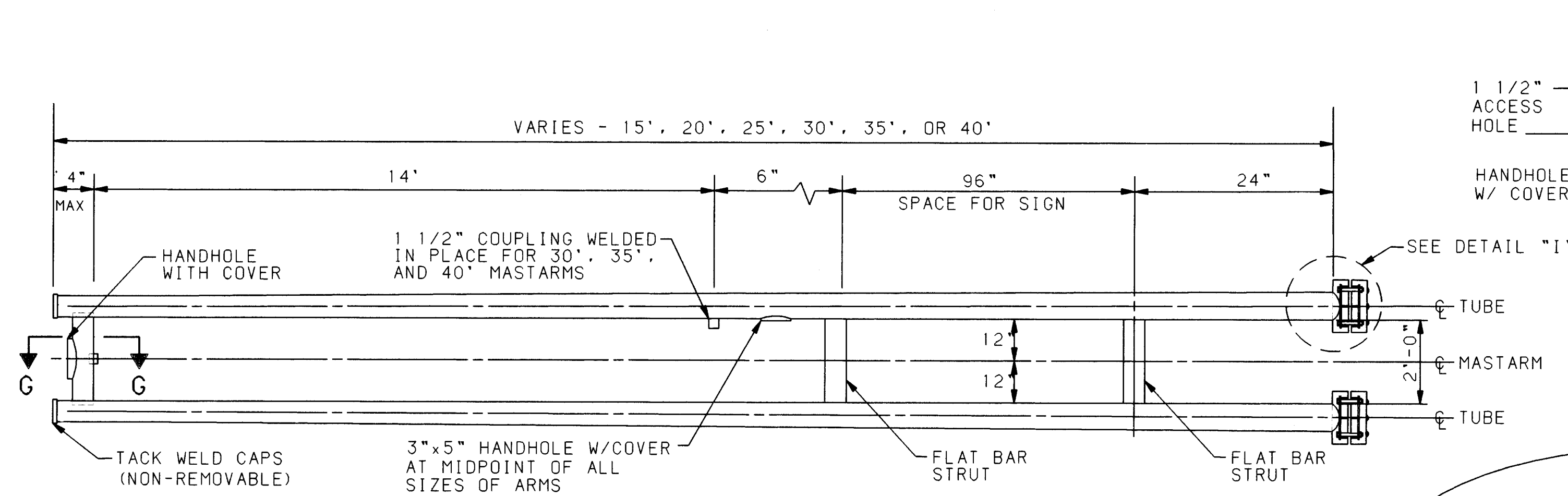
INTERCONNECT PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR			WATER		
TRANS. DEV.			WASTE WATER		
HYDROLOGY			NMUI		

PROJECT NO.	3727	MAP NO.	A-13	SHEET	46R 2	OF	72 2
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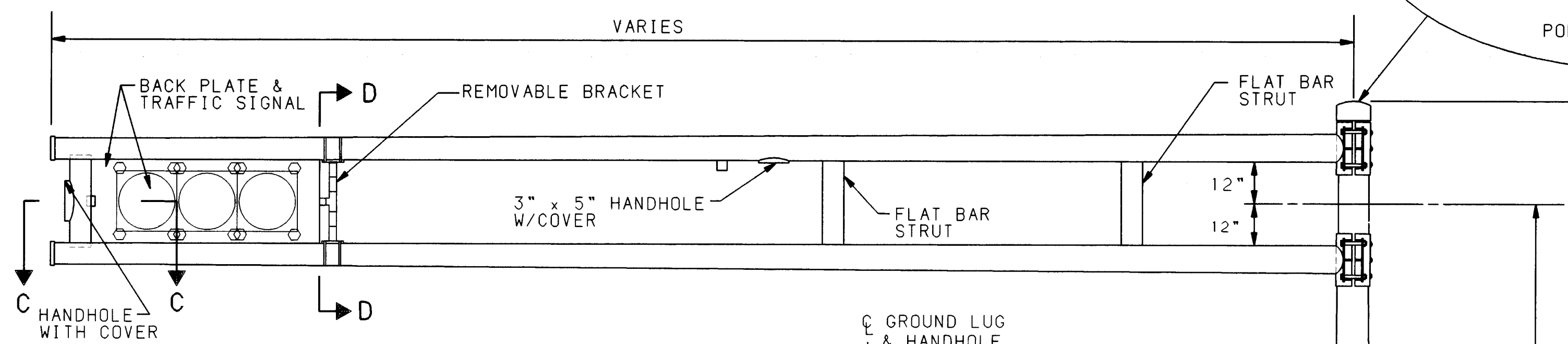


SCALE: 1"=50'

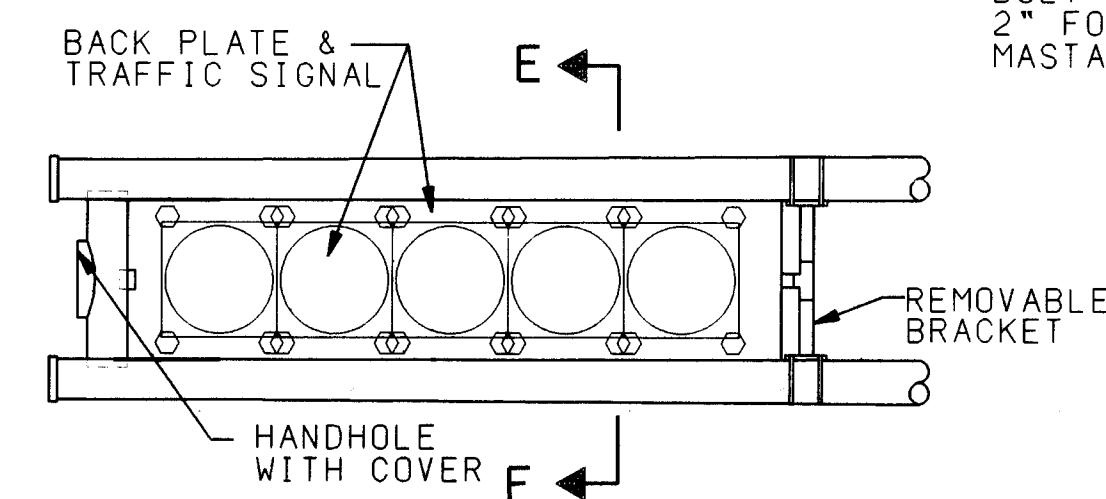
		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ELLISON DRIVE							
INTERCONNECT PLAN							
APPROVALS		ENGINEER		DATE		APPROVALS	
D.R.C. CHAIR						WATER	
TRANS. DEV.		<i>B.F.S.</i>				WASTE WATER	
HYDROLOGY		<i>3/26/90</i>				NMU	
PROJECT NO.		3727.90		MAP NO.		SHEET OF	
				A-13		48 72	



TYPICAL MASTARM DETAIL

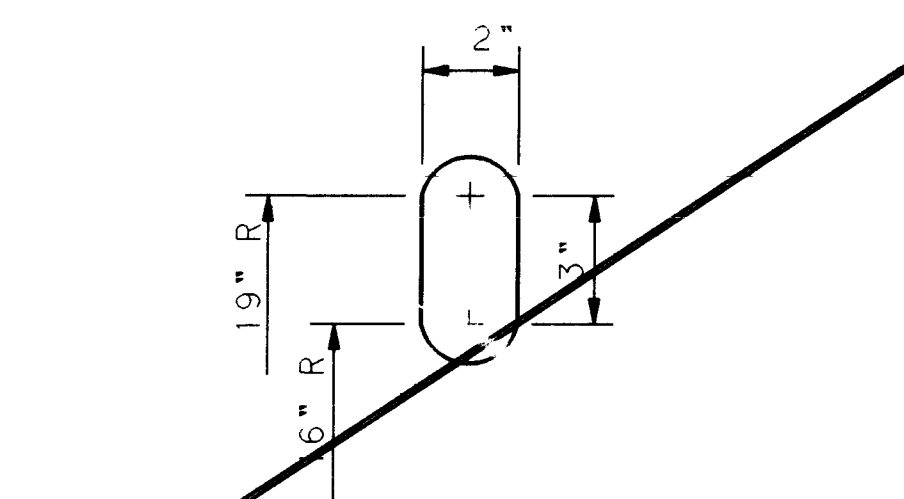


3-SECTION TRAFFIC SIGNAL

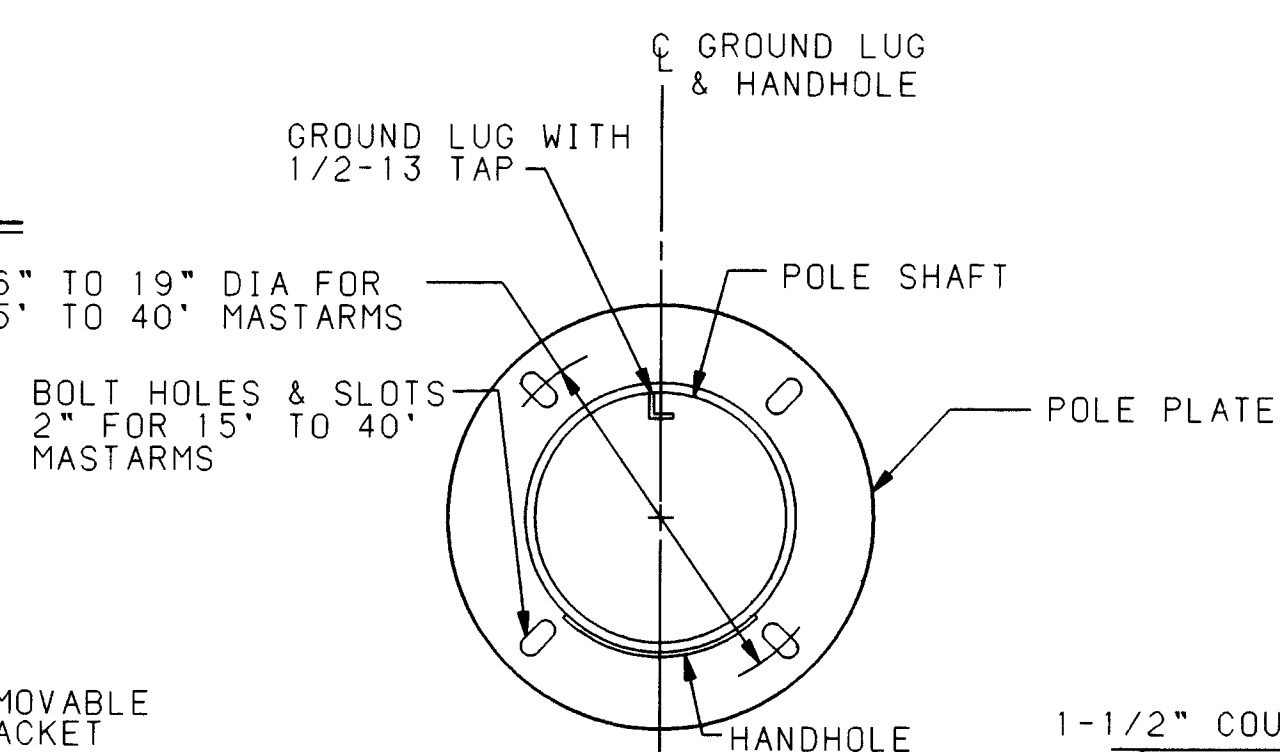


5-SECTION TRAFFIC SIGNAL

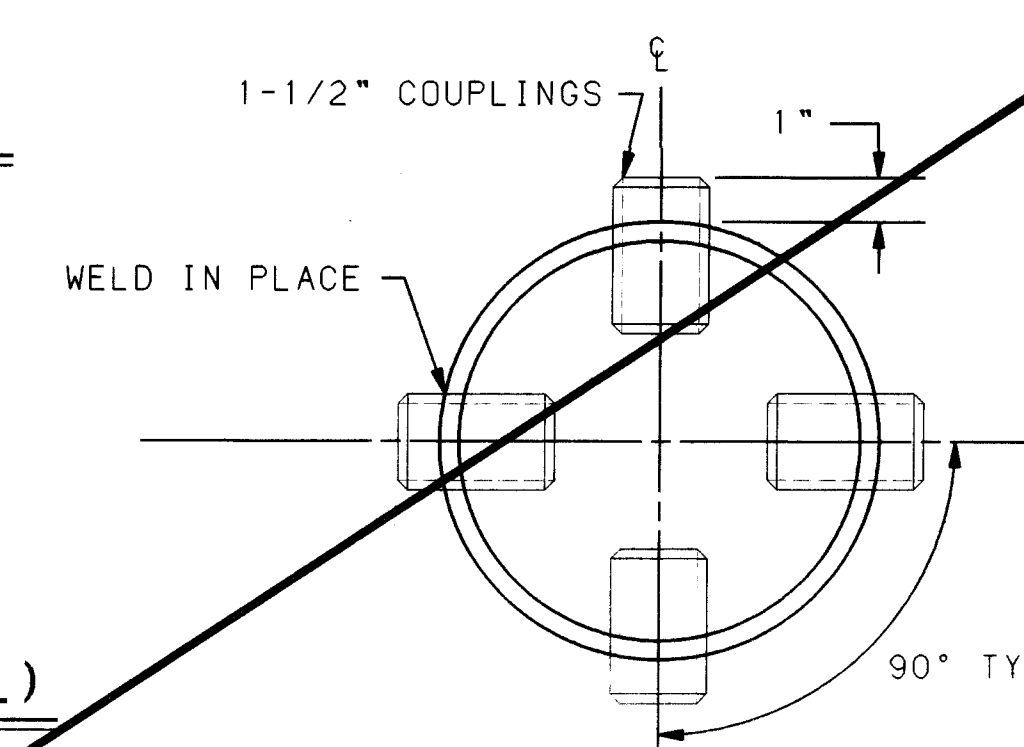
MITERED ARM END (OPTIONAL)



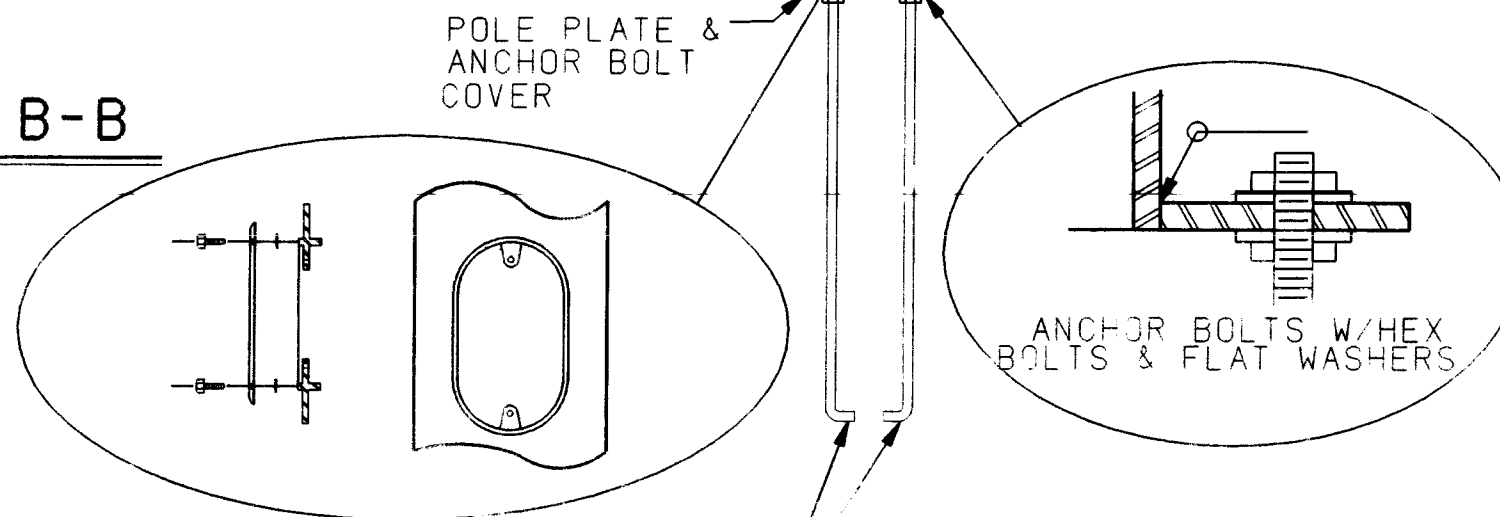
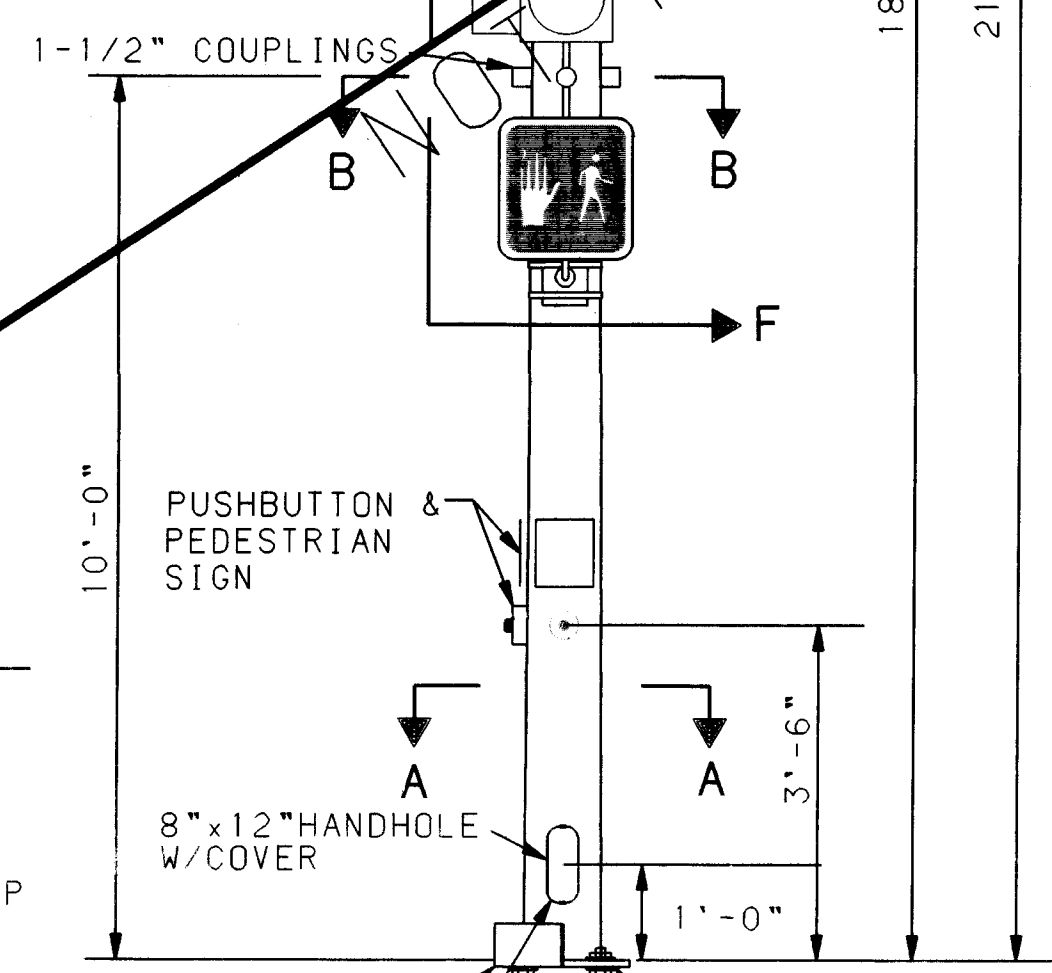
POLE PLATE SLOT DETAIL



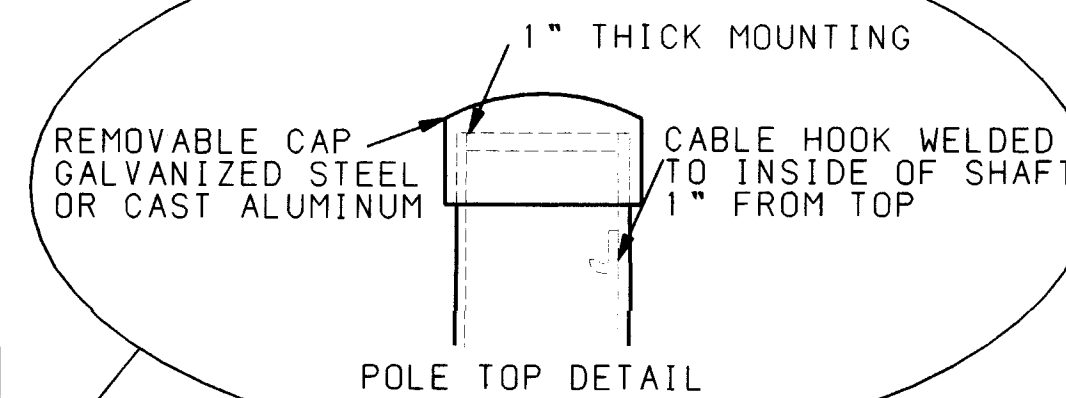
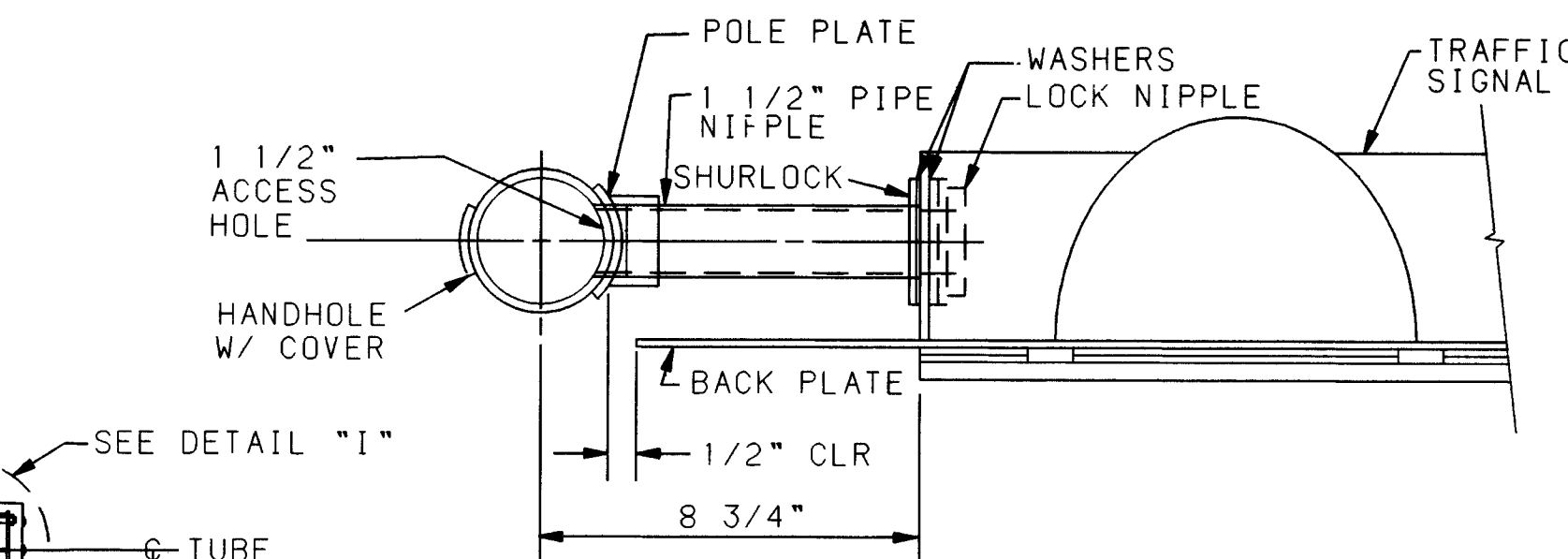
SECTION A-A



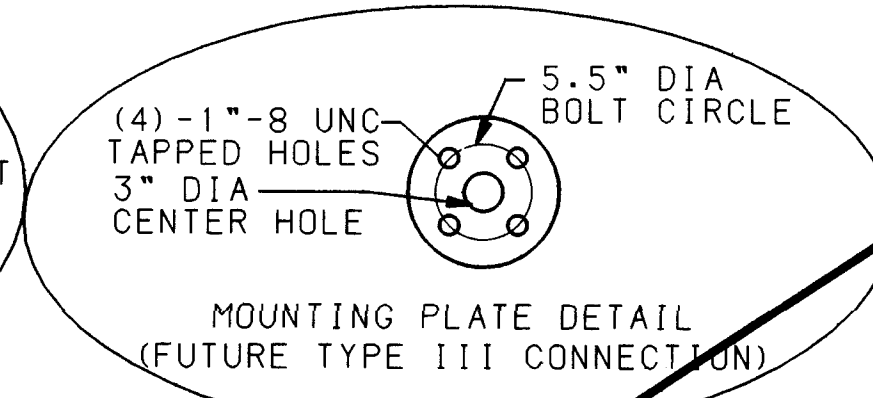
SECTION B-B



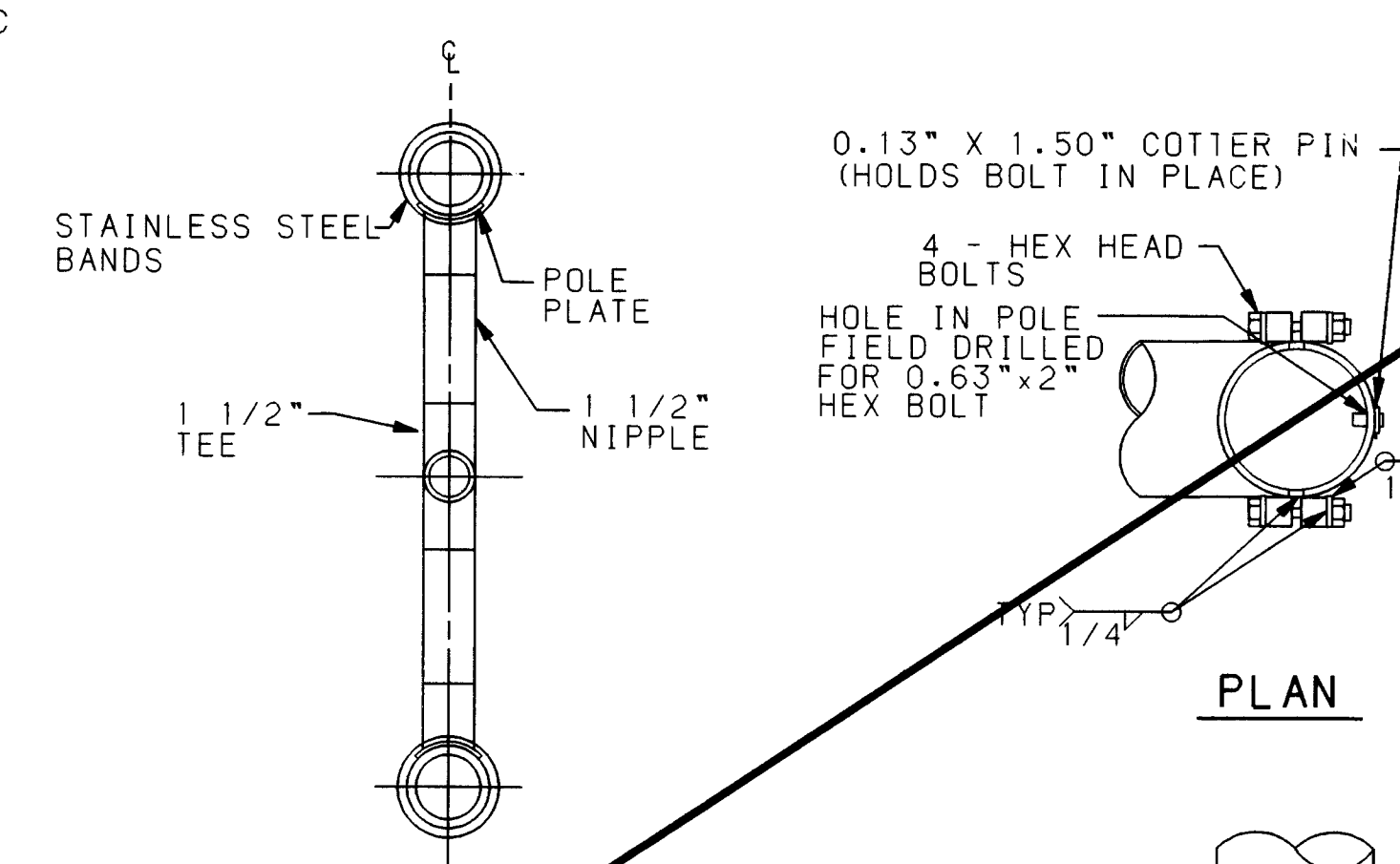
ANCHOR BOLTS
15', 20', 25' ARM: 1 1/2"x54"x6"
30', 35', 40' ARM: 1 1/2"x54"x6"



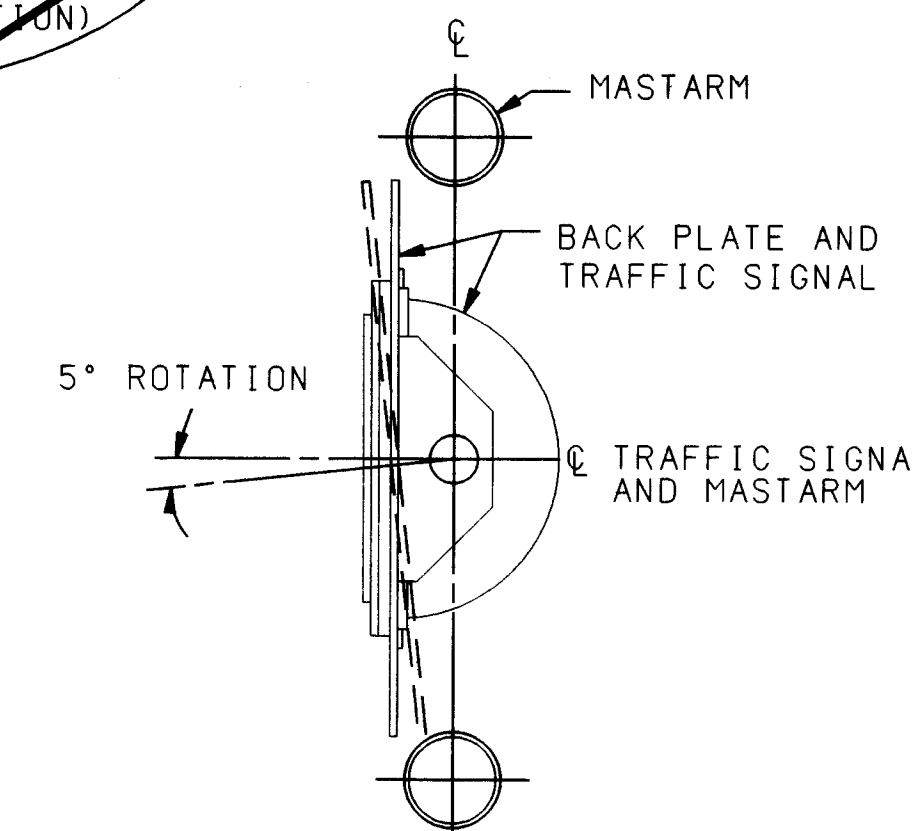
POLE TOP DETAIL



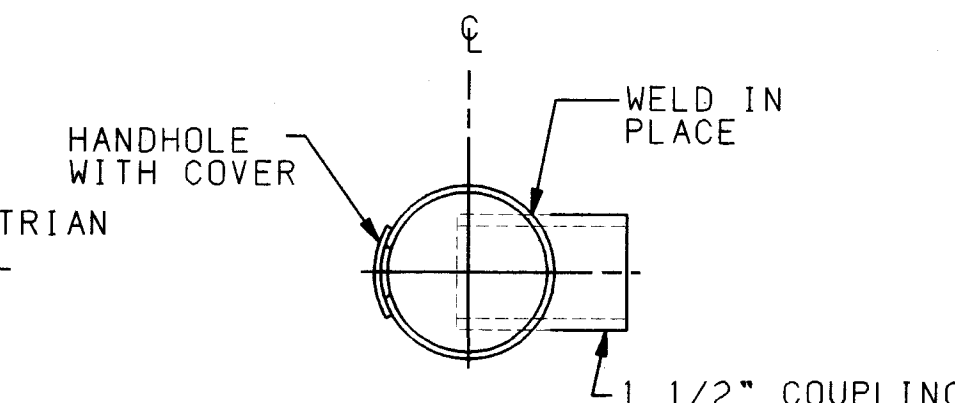
MOUNTING PLATE DETAIL (FUTURE TYPE III CONNECTION)



SECTION D-D



SECTION E-E



SECTION G-G

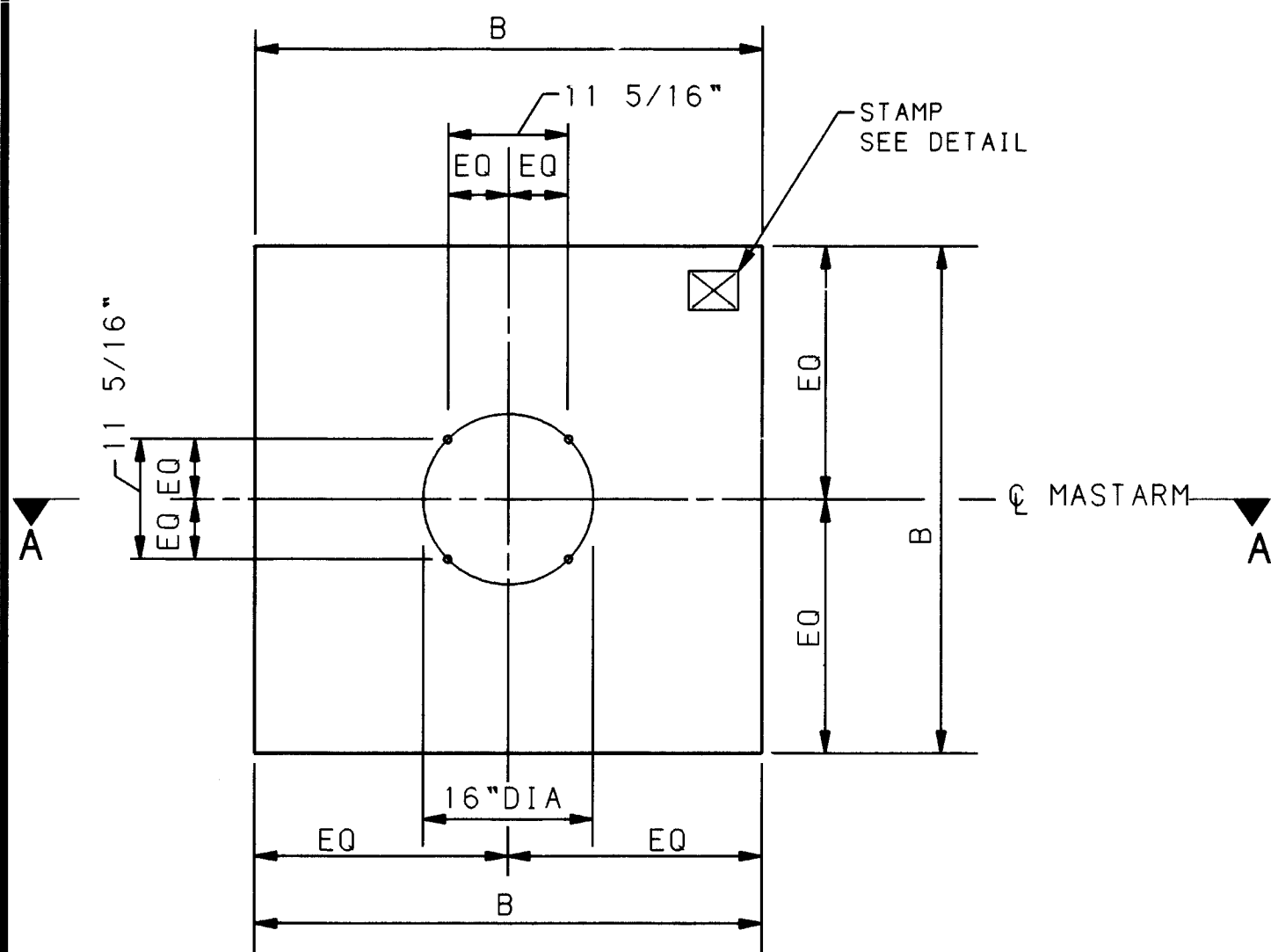
TRAFFIC SIGNAL MASTARM NOTES

- DESIGN IN ACCORDANCE WITH 1985 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS FOR AN 80 MPH WIND ZONE.
- POLES AND MASTARM SHAFTS SHALL CONFORM TO ASTM A-595 GRADE A (MIN. YIELD 55 KSI).
- BASE PLATE AND SIGNAL ARM CLAMP SHALL BE ASTM A-36 (MIN. YIELD 36 KSI).
- ANCHOR BOLTS SHALL BE ASTM A-36 MOD 55 (MIN. YIELD 55 KSI).
- SIGNAL ARM CONNECTING BOLTS SHALL BE ASTM A-325.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY SPECIFICATION AWS D1.1, LATEST EDITION. ALL WELDS SHALL BE FREE FROM CRACKS, EXCESSIVE UNDERCUT, AND POROSITY. ANY WELDING DEFECTS SHALL BE REPAIRED BY REMOVING THE DEFECTIVE MATERIAL AND REPLACING IT WITH SOUND WELD MATERIAL.
- ALL HOLES SHALL BE DRILLED AND DEBURRED.
- ALL POLES, MASTARMS, AND BOLTS SHALL BE GALVANIZED TO ASTM A-123 AND A-153.
- MASTARMS SHALL BE MARKED TO DESCRIBE WHICH IS TOP AND WHICH IS BOTTOM. POLE PLATE COVERS SHALL BE MARKED IN MATED PAIRS. POLE SHAFTS SHALL BE MARKED "ALB" "15-25" OR "30-40", AND DATE OF FABRICATION (MONTH/YEAR).

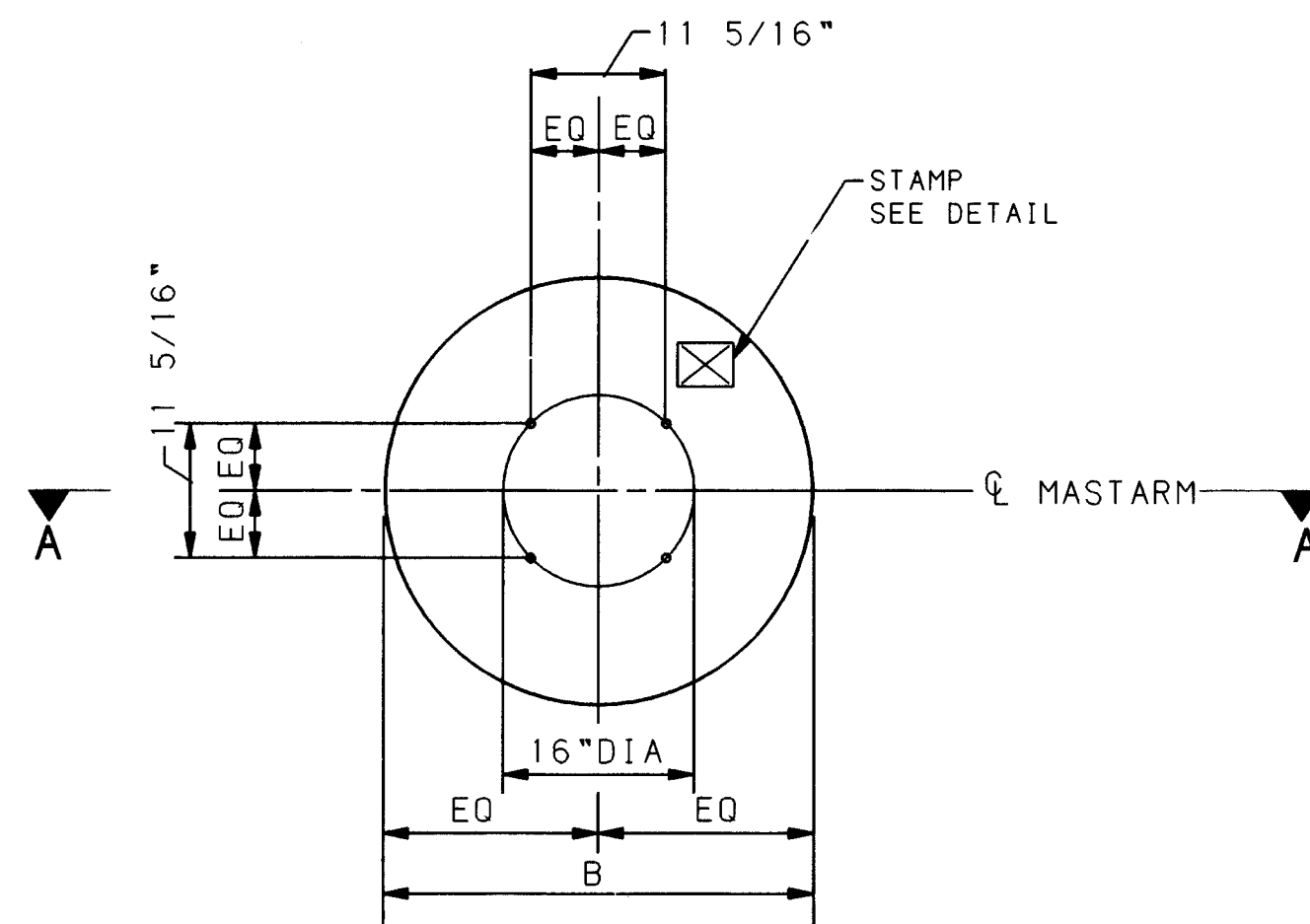
THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: 2/17/97

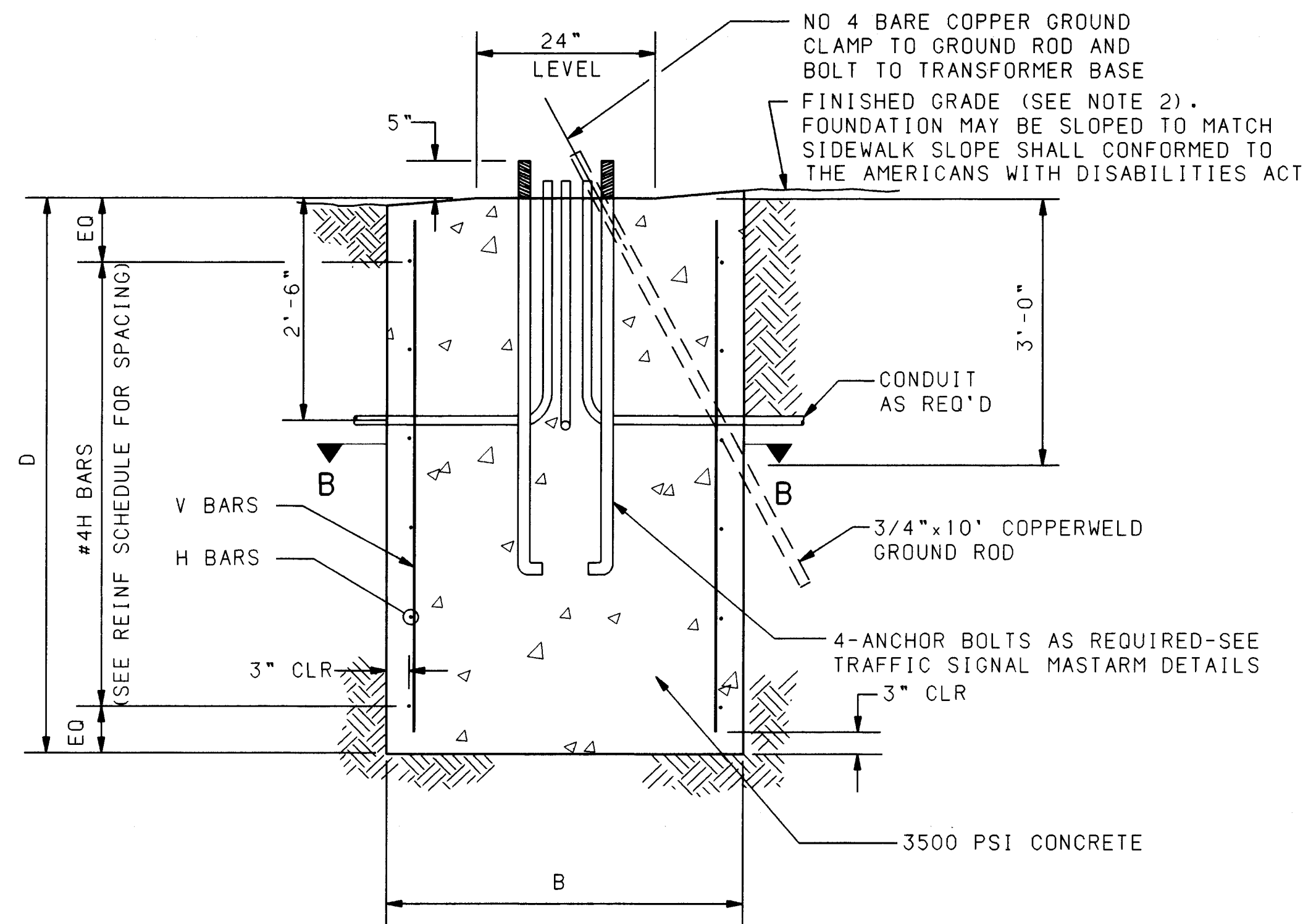
CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING			TITLE: TRAFFIC SIGNAL MASTARM DETAILS TYPE II STANDARD GALVANIZED STEEL		
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727.90	MAP NO.	A-13/B-13	SHEET	OF
				49	72



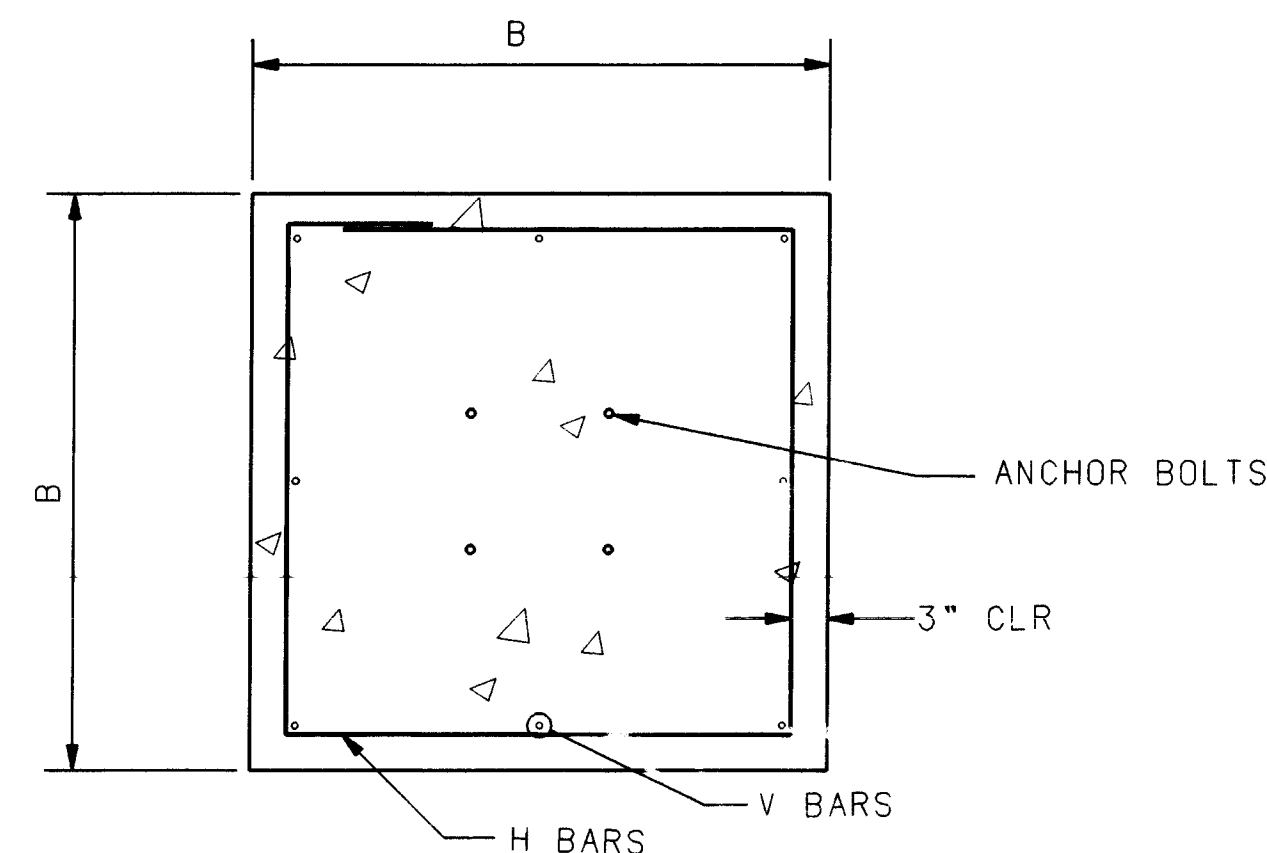
PLAN VIEW (SQUARE)
NO SCALE



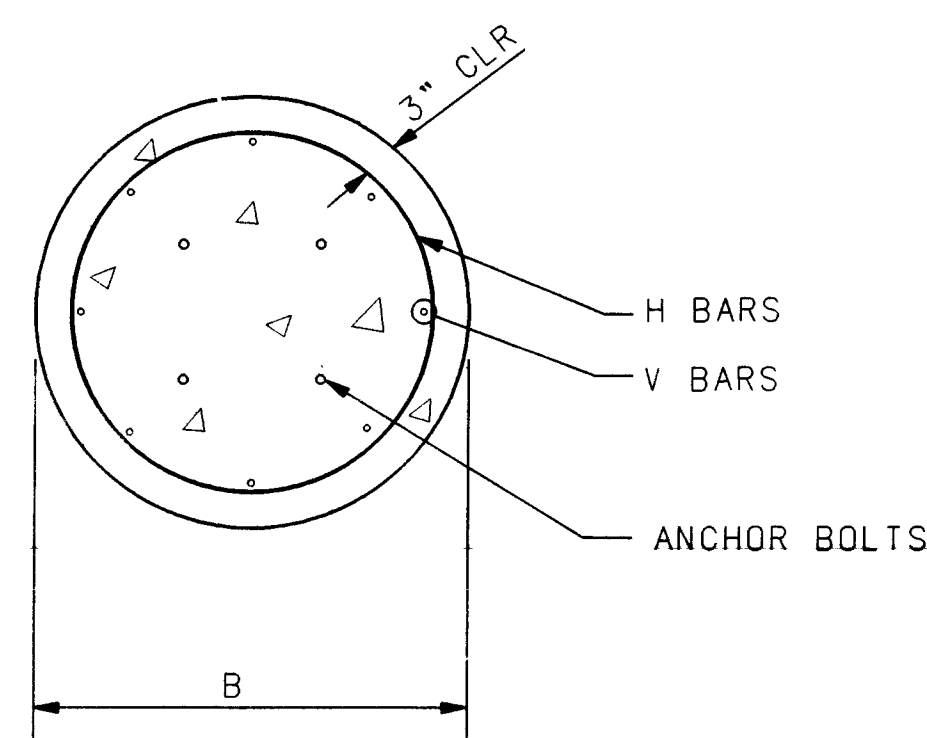
PLAN VIEW (ROUND)
NO SCALE



SECTION A-A (ROUND OR SQUARE)
NO SCALE



SECTION B-B (SQUARE)
NO SCALE

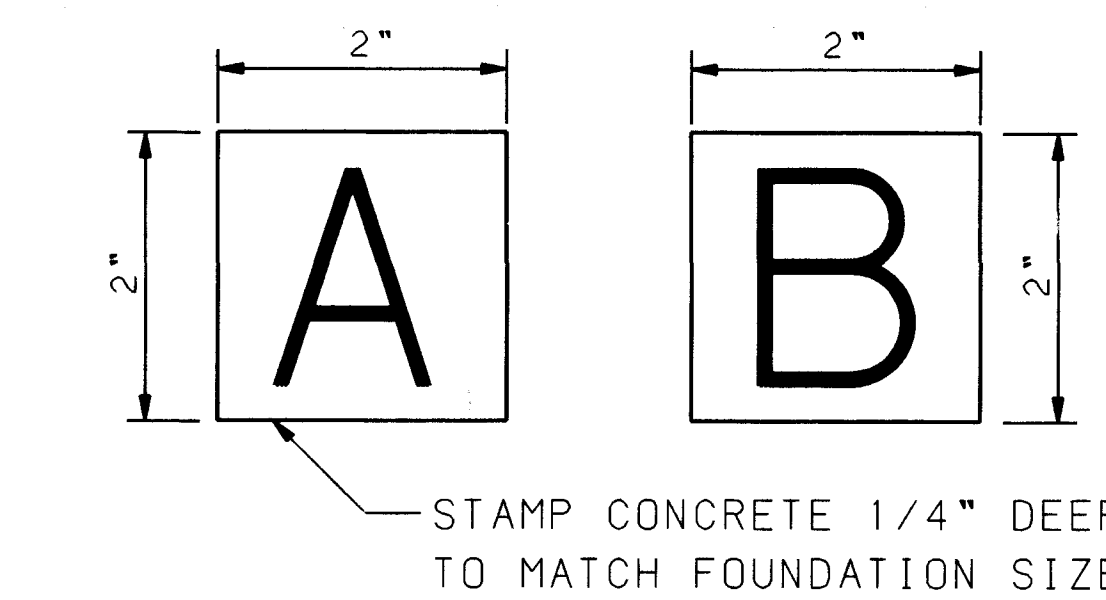


SECTION B-B (ROUND)
NO SCALE

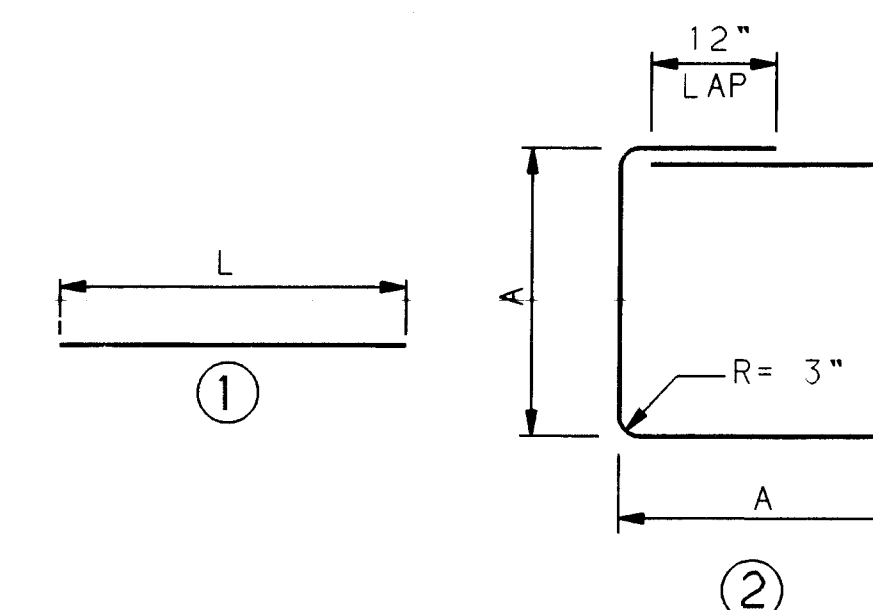
TRAFFIC SIGNAL MASTARM FOUNDATION NOTES

1. REFER TO THE PLANS FOR LOCATIONS OF TRAFIC SIGNAL MASTARM FOUNDATIONS.
2. FINISHED GRADE FOR THE FOUNDATIONS SHALL BE ESTABLISHED IN THE FIELD BY THE PROJECT MANAGER.
3. THE FOUNDATIONS SHOWN HERE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT REVISION.
4. CONCRETE SHALL BE 3500 PSI FOR EXTERIOR STRUCTURES. REFER TO TABLE 101.C OF THE SPECIFICATIONS.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60.
6. THE TOP 6 INCHES OF THE FOUNDATION PEDESTAL SHALL BE FORMED TO THE DIMENSIONS SHOWN ON THIS SHEET TO FORM NEAT LINES. CONCRETE BELOW 6 LINES MAY BE CAST AGAINST THE EARTH.
7. THE CONCRETE SHALL GAIN 80% OF THE DESIGN STRENGTH PRIOR TO INSTALLING THE TRAFFIC SIGNAL MASTARM.
8. ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" DIAx10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATIONS BID ITEMS.
9. ALL FOUNDATIONS SHALL BE STAMPED EITHER "A" OR "B" TO SHOW TYPE CONSTRUCTED (SEE STAMP DETAIL).

FOUNDATION DIMENSIONS AND QUANTITIES							
FOUNDATION TYPE	SIGNAL ARM SPAN (FT)	DIMENSION (WIDTH)	DIMENSION (DEPTH)	REINFORCING V BARS MARK	REINFORCING H BARS MARK	REBAR POUNDS	3500 PSI CONCRETE CUBIC YARDS
TYPE A (SQUARE)	15	3'-6"	5'-0"	#4V2	#3H2	49.1	2.27
	20	"	"	"	"	"	"
	25	"	"	"	"	"	"
TYPE B (SQUARE)	30	4'-0"	6'-3"	#5V1	#3H1	82.6	3.70
	35	"	"	"	"	"	"
	40	"	"	"	"	"	"
TYPE A (ROUND)	15	2'-6"	8'-6"	#6V4	#3H4	98.1	1.55
	20	"	"	"	"	"	"
	25	"	"	"	"	"	"
TYPE B (ROUND)	30	3'-0"	11'-9"	#7V3	#3H3	179.7	3.08
	35	"	"	"	"	"	"
	40	"	"	"	"	"	"

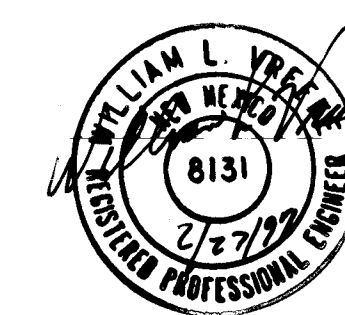


REINFORCING SCHEDULE (GRADE 60 BARS)					
MARK	QUANT	TYPE	SIZE	LENGTH	COMMENTS
#5V1	8	1	5	5'-9"	
#4V2	8	1	4	4'-6"	
#7V3	6	1	7	11'-3"	
#6V4	6	1	6	8'-0"	
#3H1	6	2	3	15'-4"	A = 42", TIES AT 14" OC
#3H2	5	2	3	13'-4"	A = 36", TIES AT 12" OC
#3H3	12	3	3	9'-3"	DIA = 30", TIES AT 12" OC
#3H4	9	3	3	7'-8"	DIA = 24", TIES AT 12" OC



BAR BENDING DIAGRAM

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC. WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

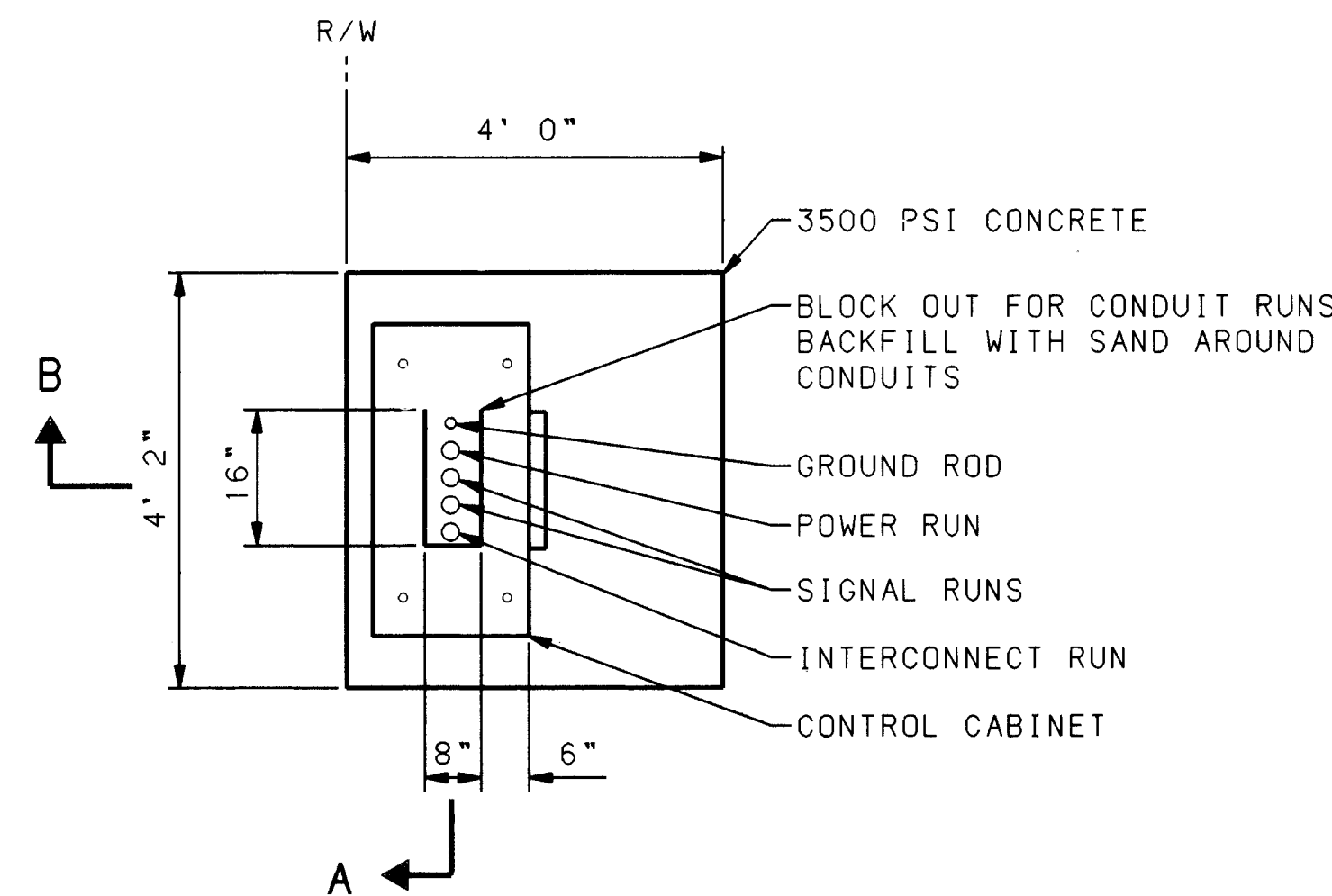


STAMP DETAIL
NO SCALE

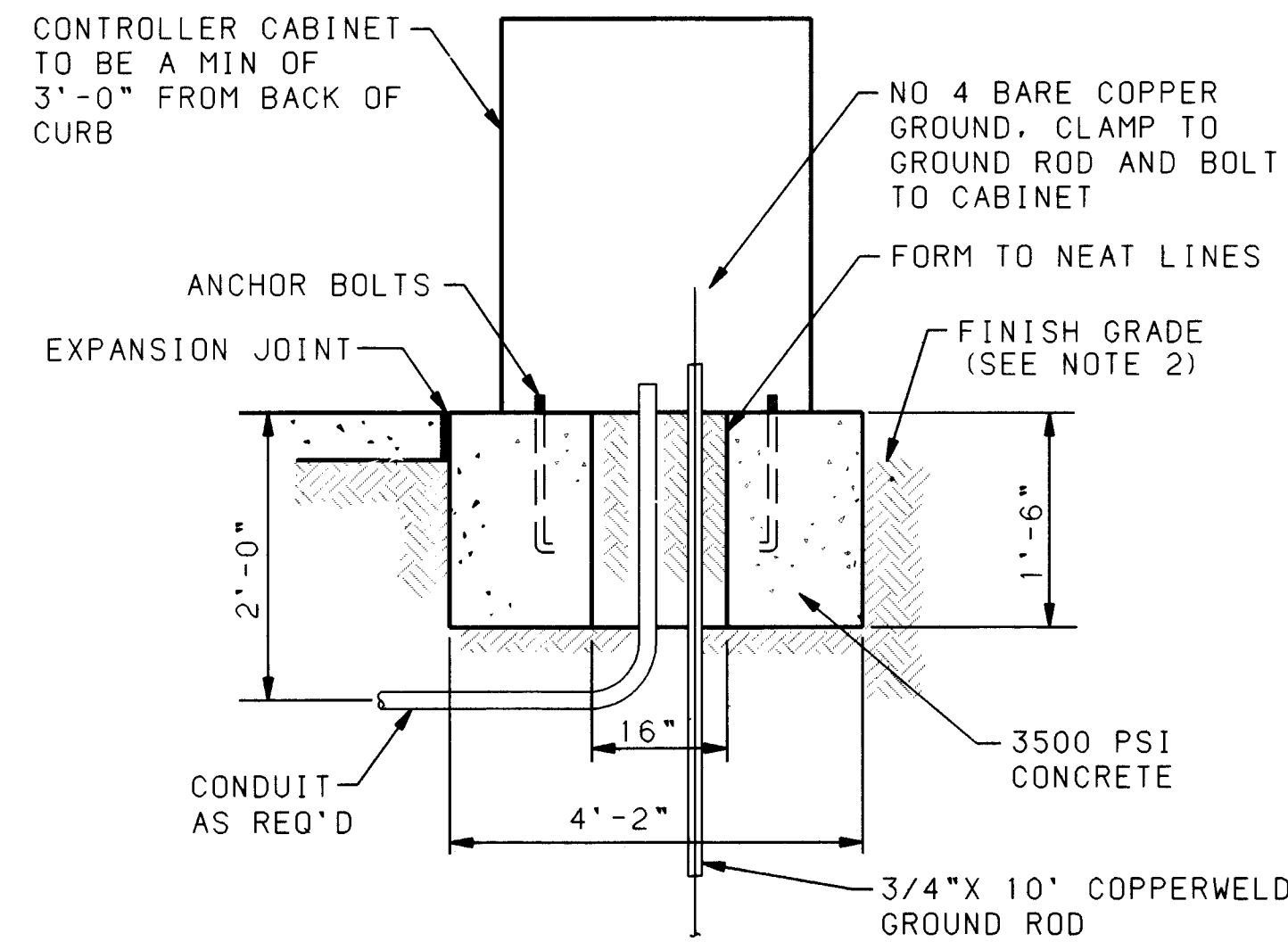
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL MASTARM DETAILS FOUNDATION DETAILS TYPE II AND TYPE III STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727.90	MAP NO.	A-13/B-13	SHEET	OF 72

RECORD DRAWING
DATE: 2/17/97

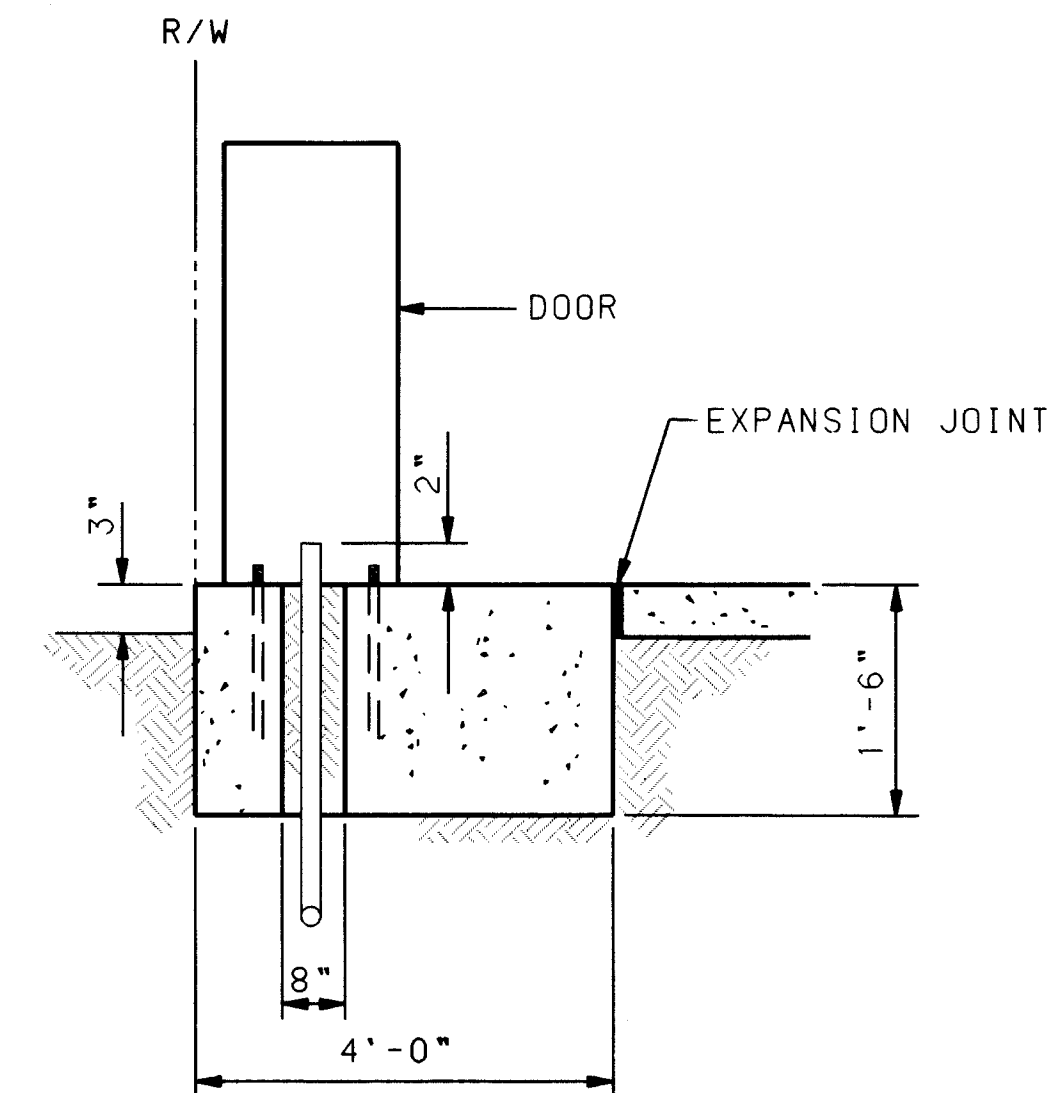
SCANNED BY LASON



PLAN



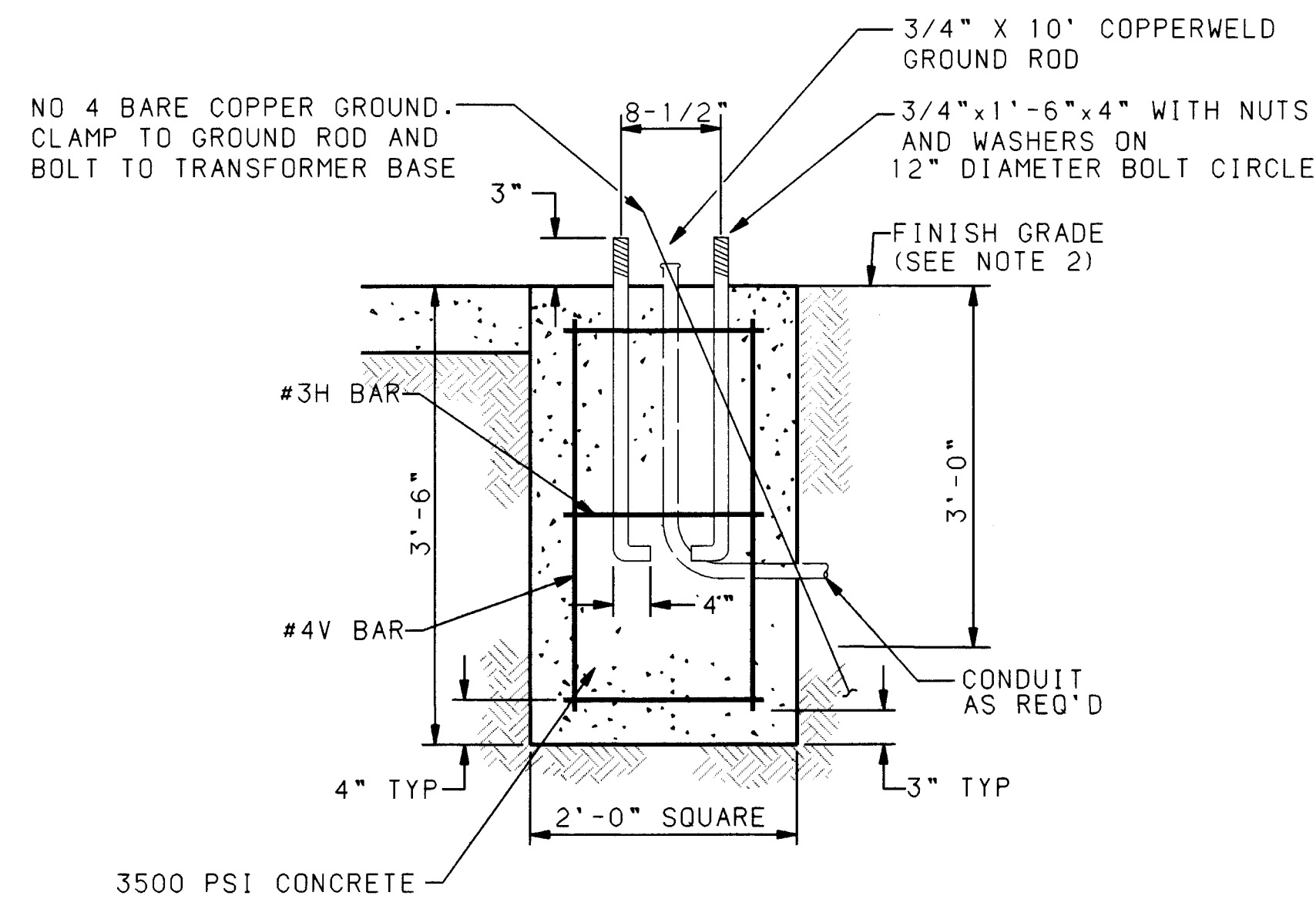
SECTION A



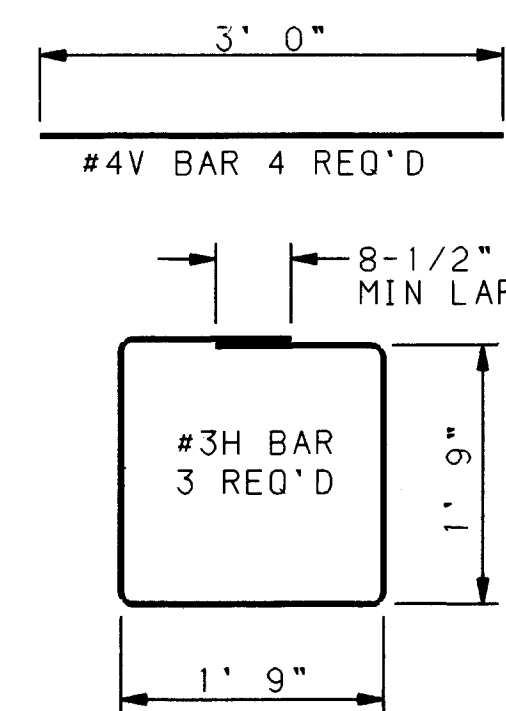
SECTION B

CONTROLLER FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION, THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.



PEDESTAL FOUNDATION DETAIL

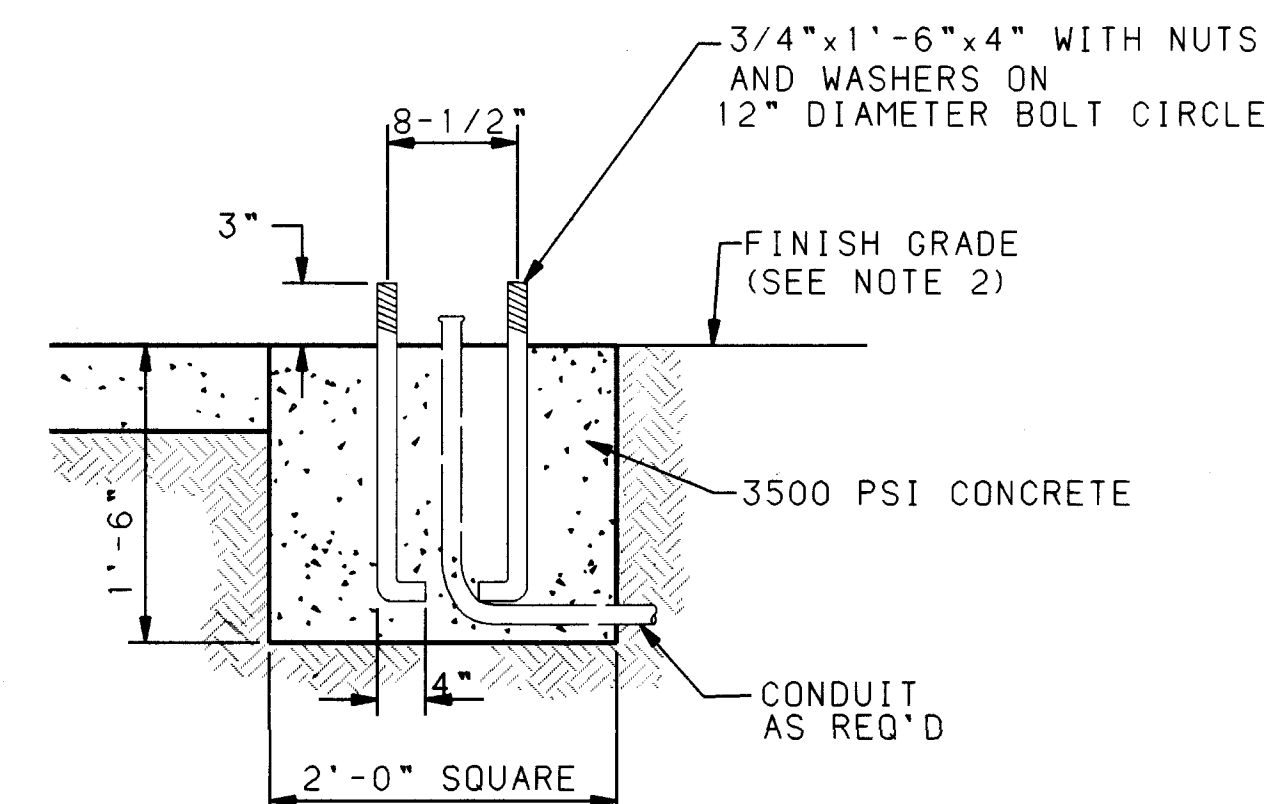


REINFORCING STEEL

ESTIMATED QUANTITIES

FOUNDATION TYPE	3500 PSI CONCRETE CU YD	REINFORCING BARS POUNDS
PEDESTAL FOUNDATION	0.52	17
CONTROLLER FOUNDATION (TYPE M & P)	0.88	--
SPLICE CABINET FOUNDATION	0.13	--

(FOR CONTRACTORS INFORMATION ONLY)



SPLICE CABINET FOUNDATION DETAIL

TRAFFIC SIGNAL FOUNDATION NOTES

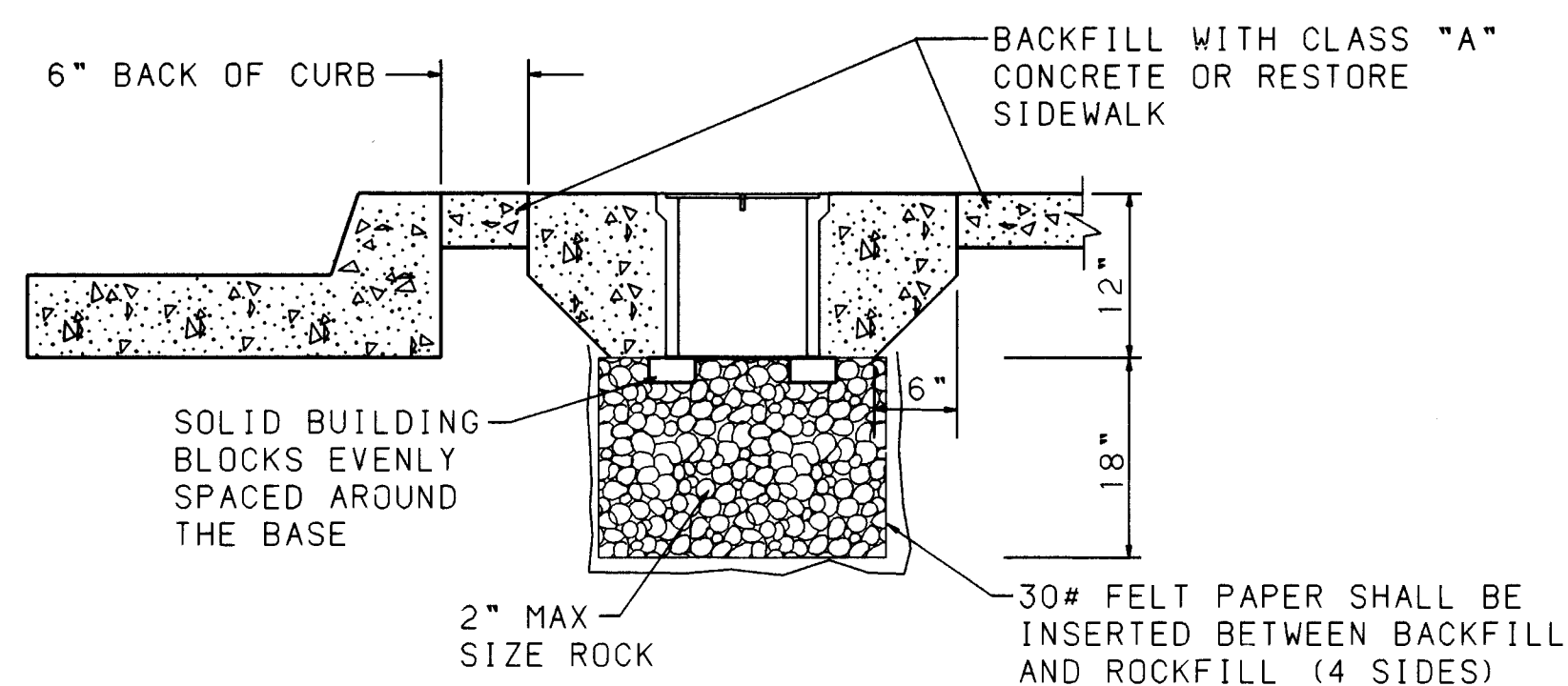
- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" Φ x 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATION BID ITEMS.
- FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. FOUNDATIONS MAY BE SLOPED TO MATCH SIDEWALKS. SLOPES SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS.

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RECORD DRAWING
DATE: 2/17/97

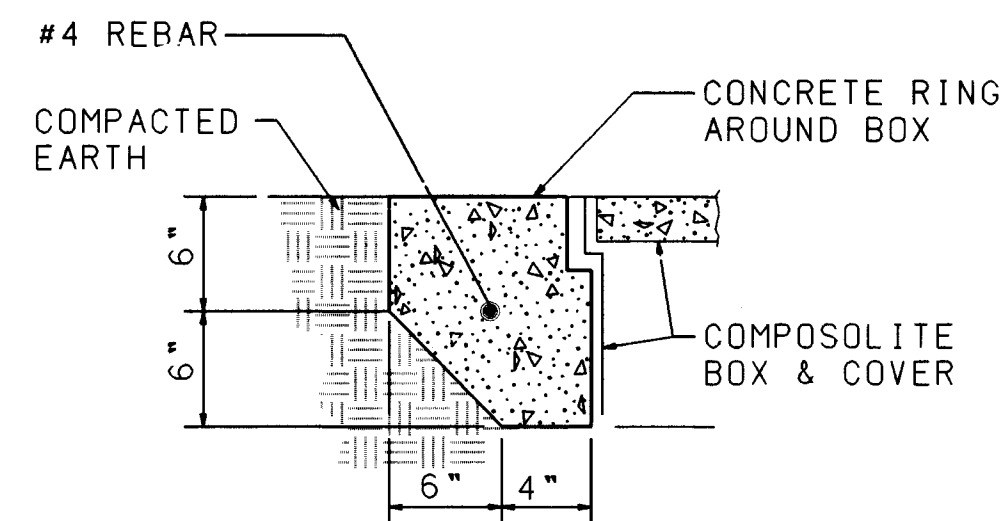
CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: TRAFFIC SIGNAL CONTROLLER CABINET & PEDESTAL FOUNDATION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727-90	MAP NO.	A-13/B-13	SHEET	OF 72

SCANNED BY
BY LASON

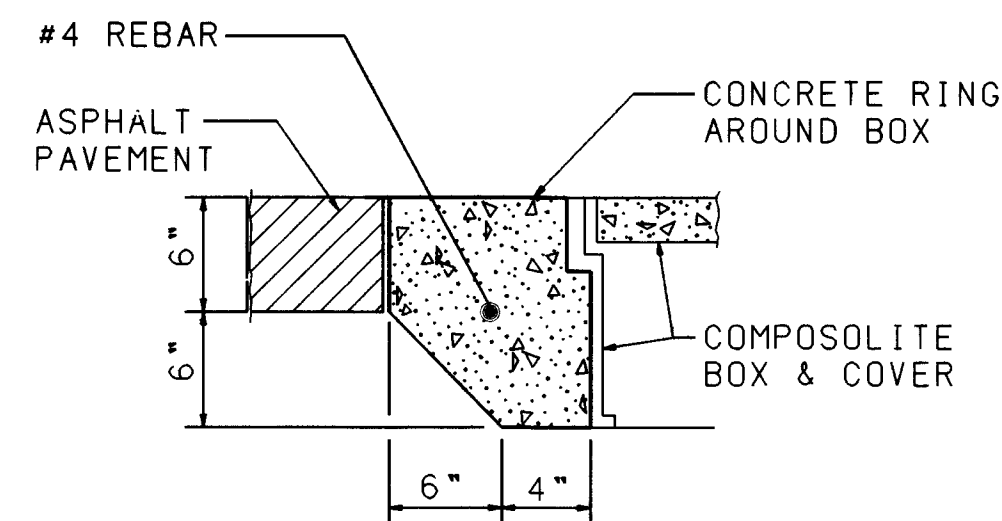


TYPICAL PULLBOX INSTALLATION

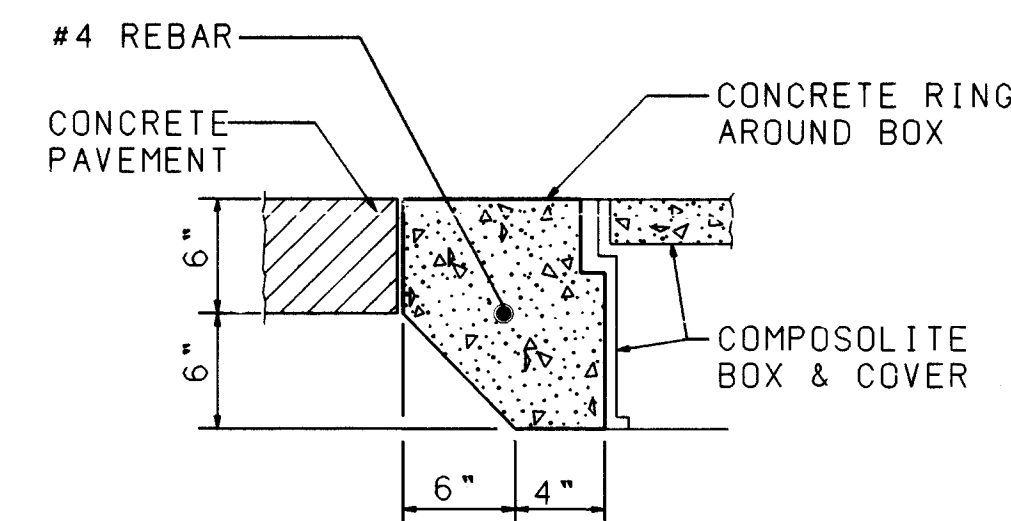
NOTE: SEE "CONCRETE COLLAR DETAILS"



IN COMPACTED EARTH



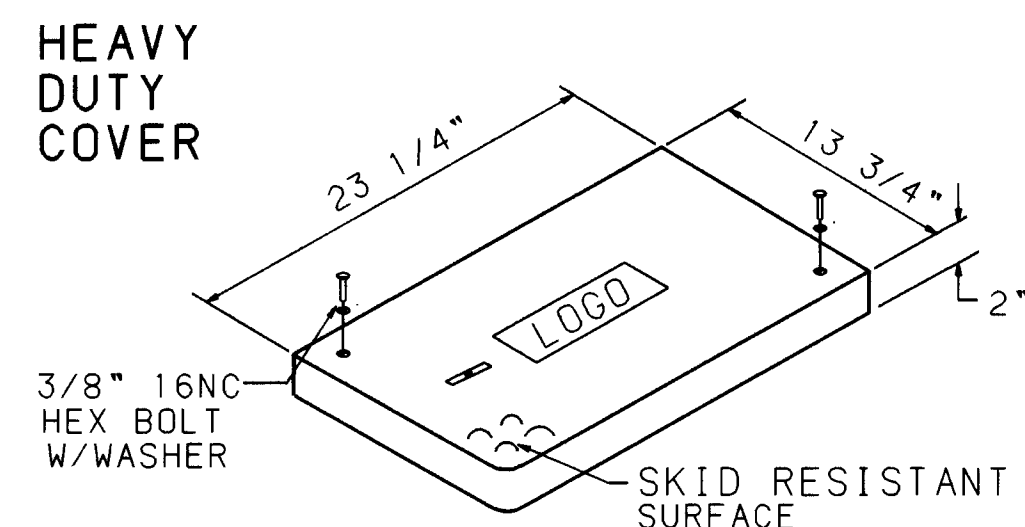
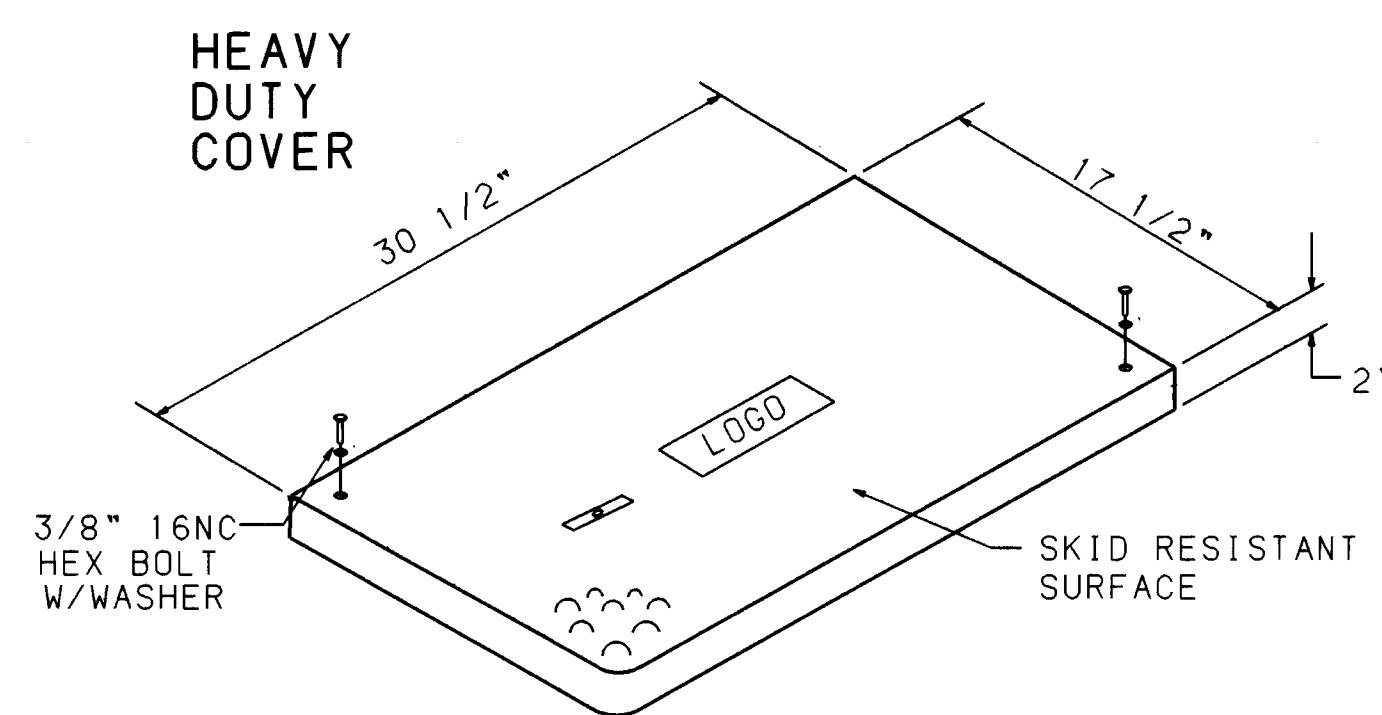
IN ASPHALT PAVEMENTS



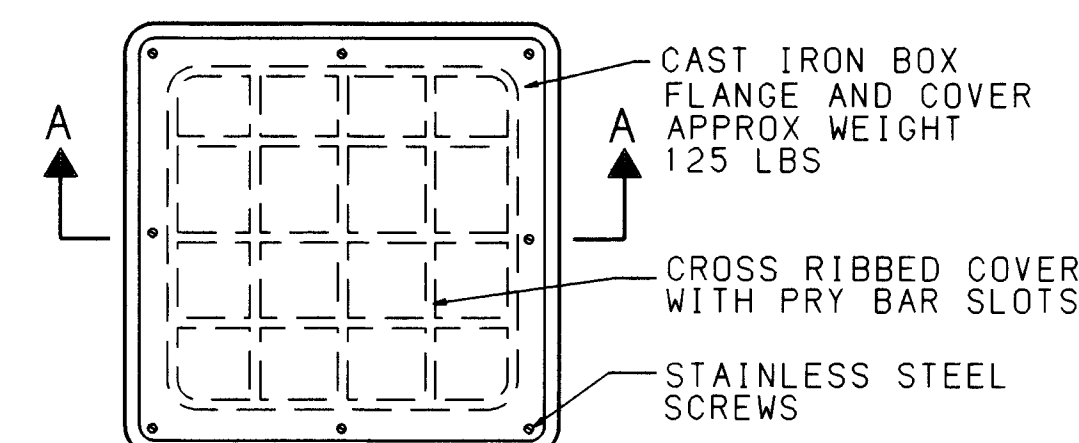
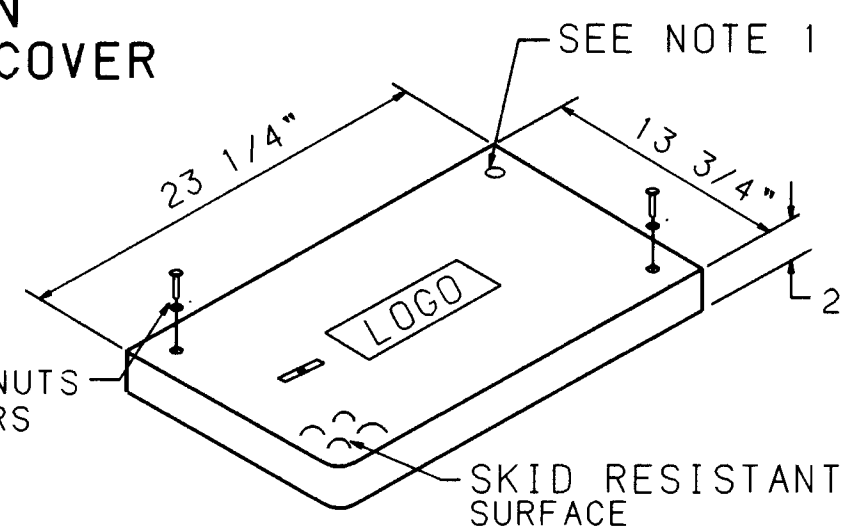
IN CONCRETE PAVEMENTS

CONCRETE COLLAR DETAILS

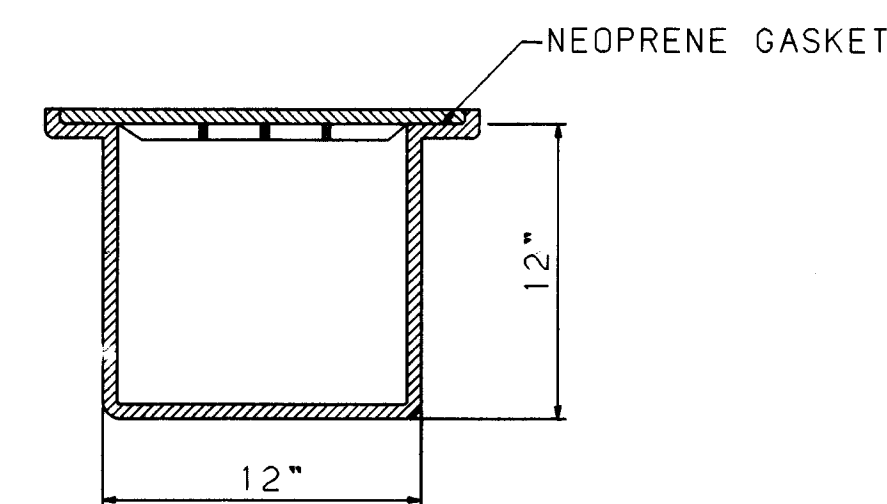
NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE PAID FOR UNDER THE CONTRACT ITEM FOR ELECTRICAL PULL BOX AND NO OTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.



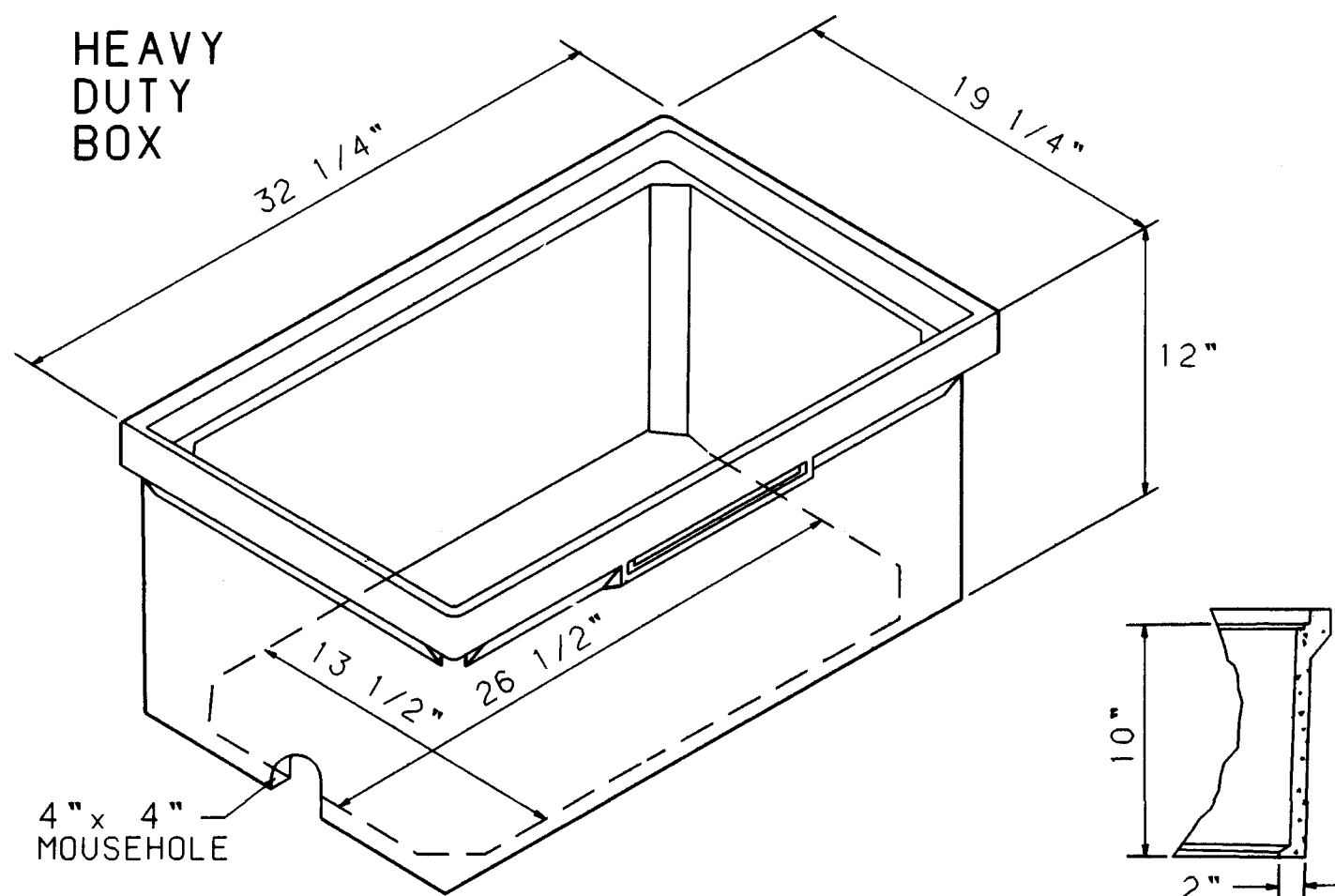
CAST IRON TRAFFIC COVER WT-55#



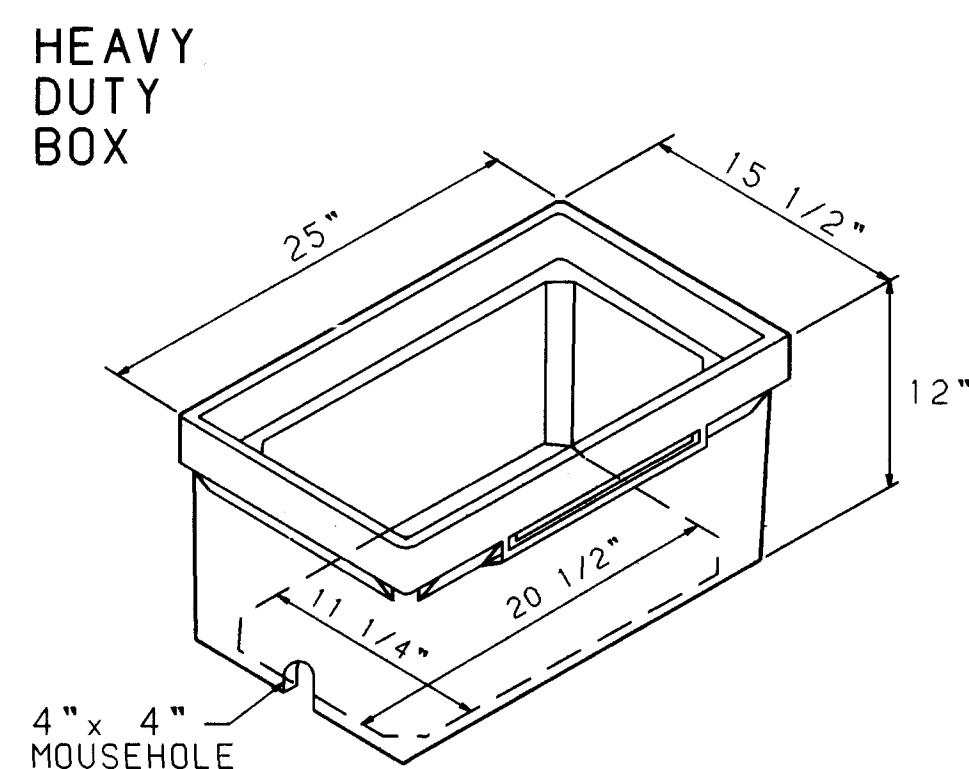
PLAN



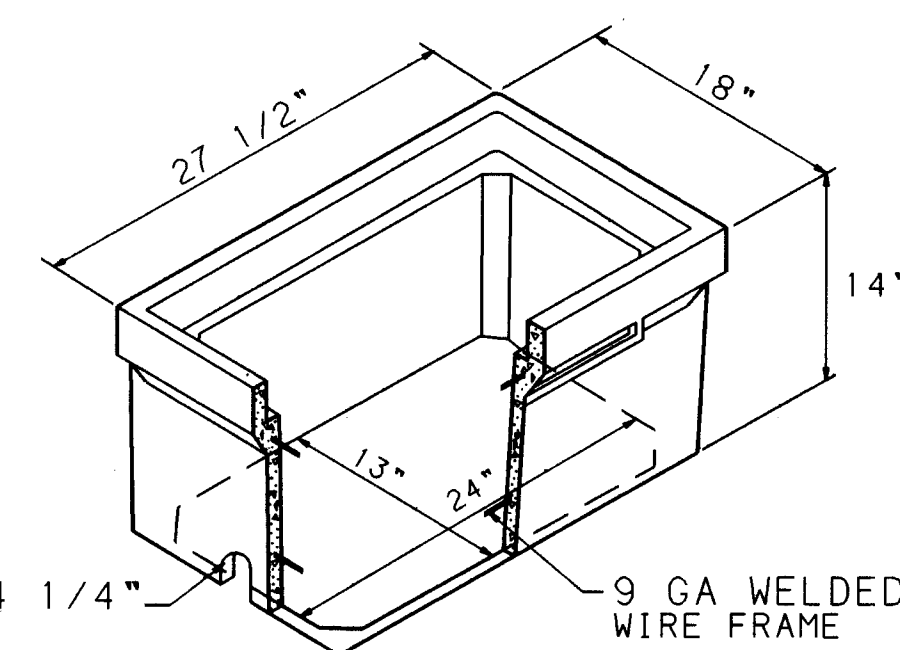
SECTION A-A



LARGE PULL BOX



STANDARD PULL BOX



STANDARD PULL BOX

PULL BOX DETAILS

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOXES AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11000 PSI, TENSILE STRENGTH - 1700 PSI, FLEXURAL STRENGTH - 7500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22568 LBS OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" x 23 1/4" x 2".

NOTES FOR CONCRETE ELECTRICAL PULL BOXES AND COVERS

1. A #4 AWG BARE COPPER GROUNDING WIRE SHALL CLAMPED TO GROUNDING WIRE OR METAL CONDUIT AND BOLTED TO METAL COVER.

CONCRETE PULL BOX DETAILS

METAL PULL BOX

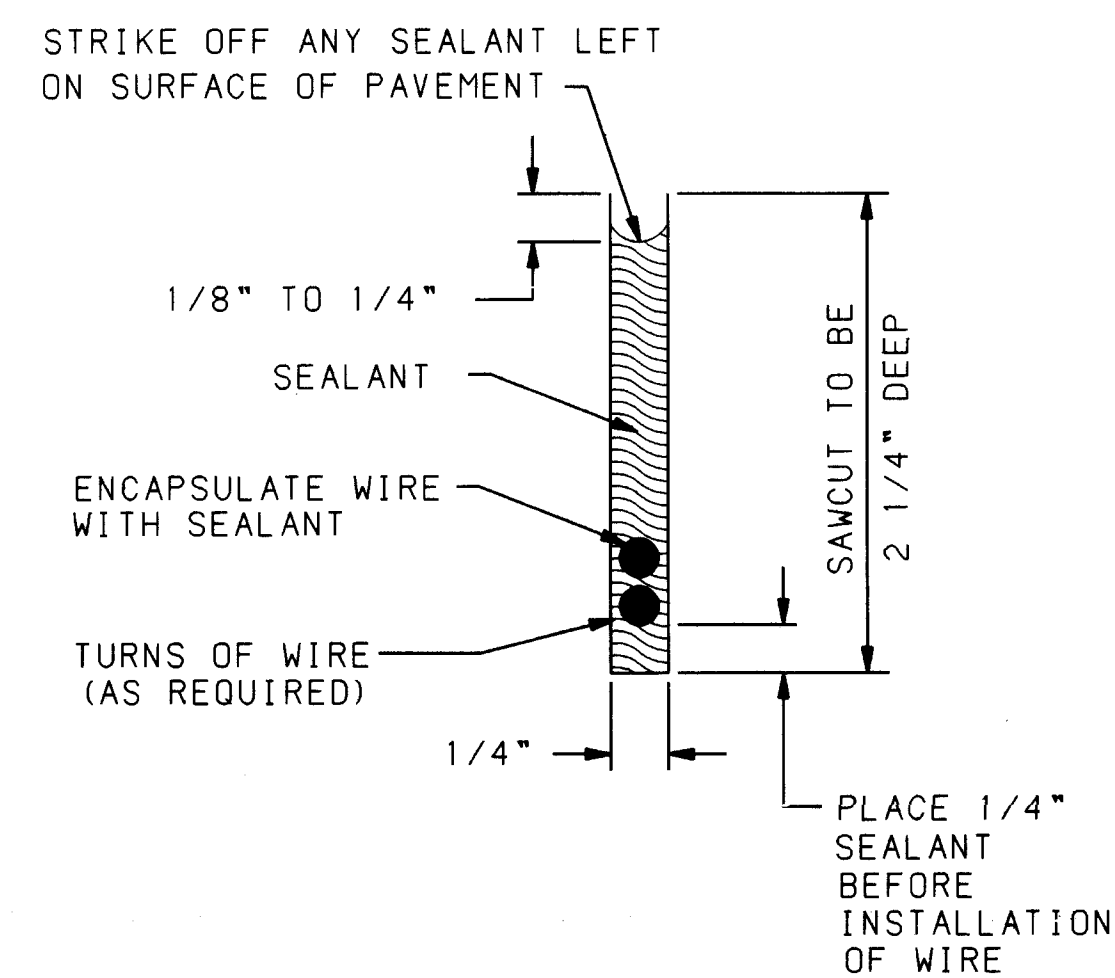
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RECORD DRAWING
DATE: 2/17/97

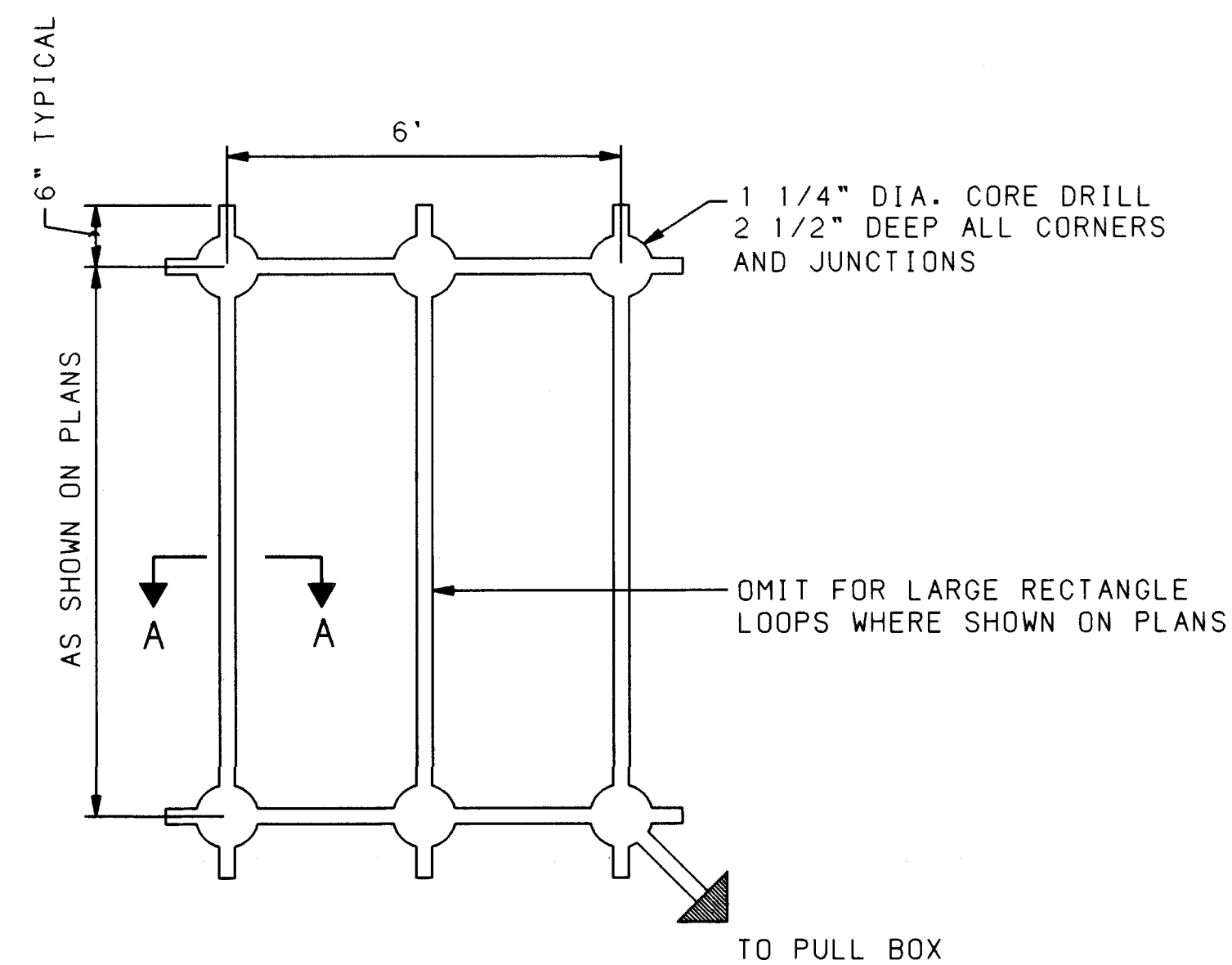
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BY LASON



CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING			
TITLE: TRAFFIC SIGNAL PULL BOX DETAILS			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	BOHANNAN-HUSTON, INC.	2/17/97	WATER
TRANSPORTATION	BOHANNAN-HUSTON, INC.	2/17/97	WASTE WATER
HYDROLOGY	BOHANNAN-HUSTON, INC.	2/17/97	TRAF. OPER.
DRAWING NO.	3727.90	MAP NO.	A-13/B-13
SHEET	53	OF	72

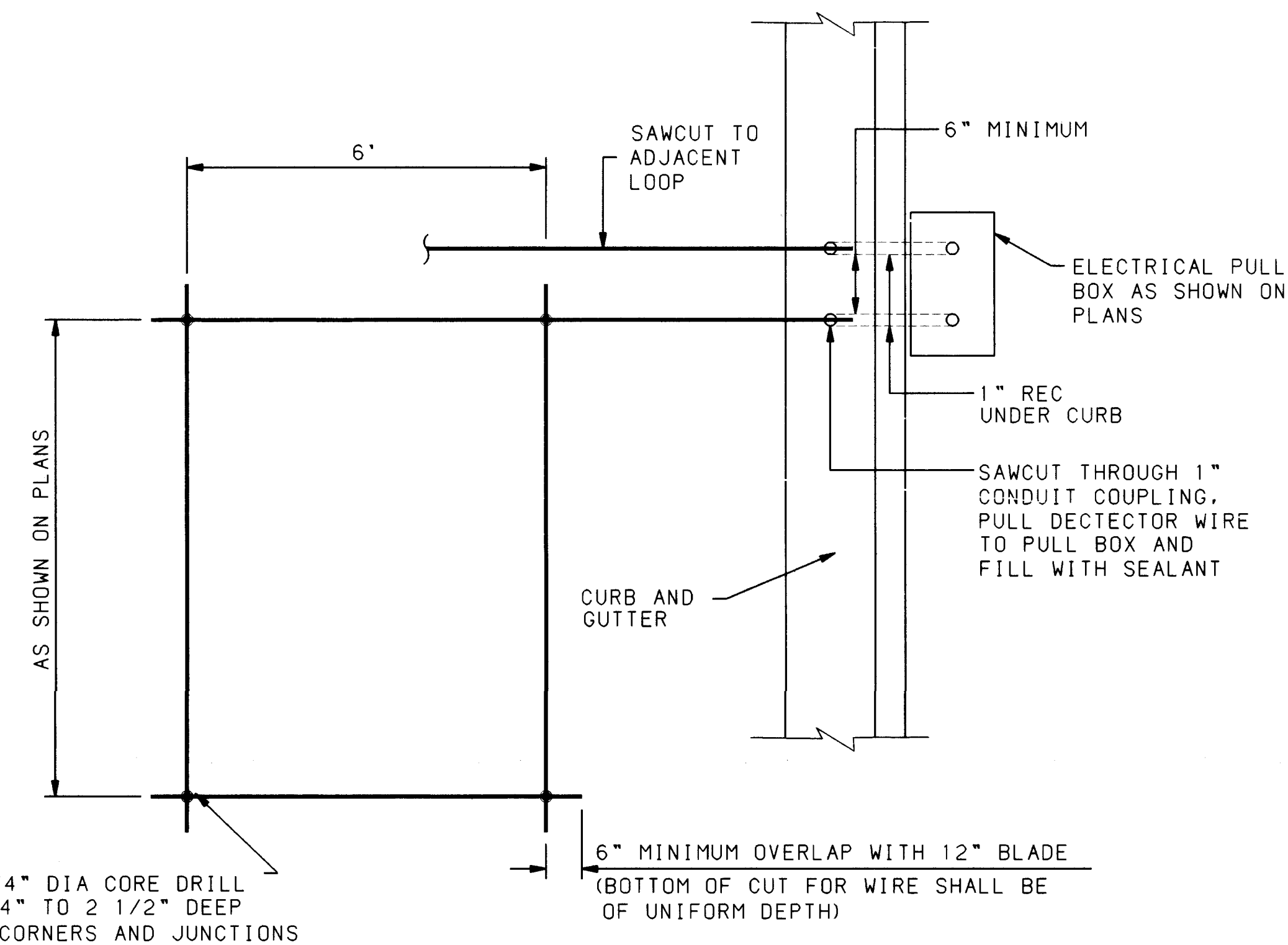


SECTION A-A

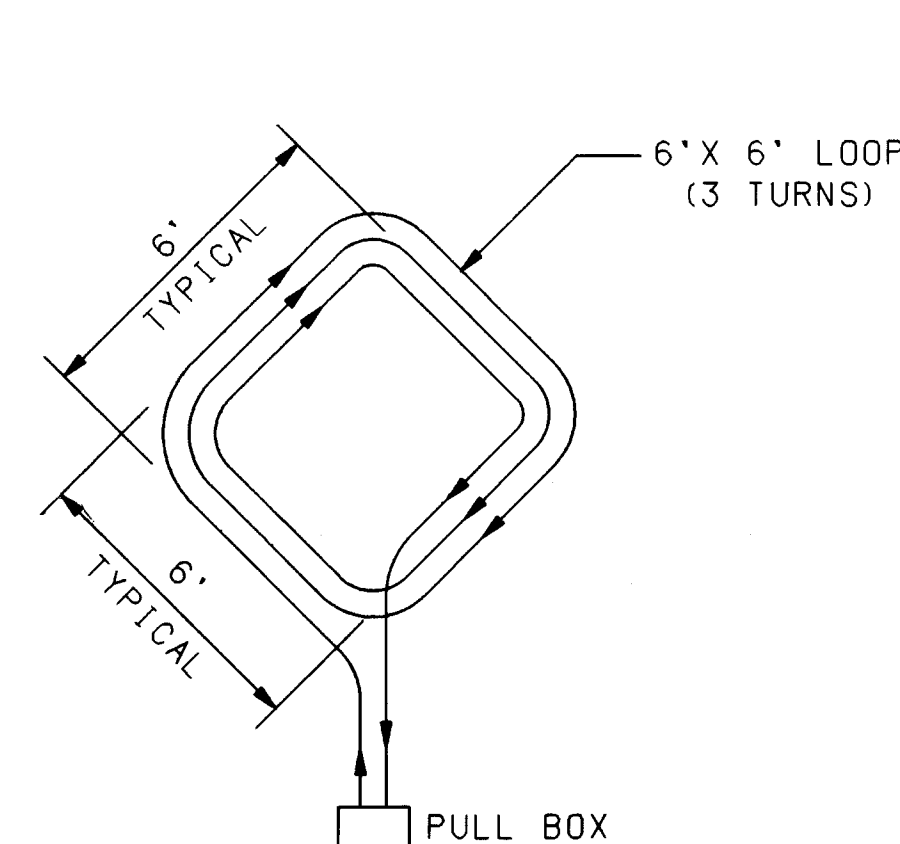


PLAN VIEW

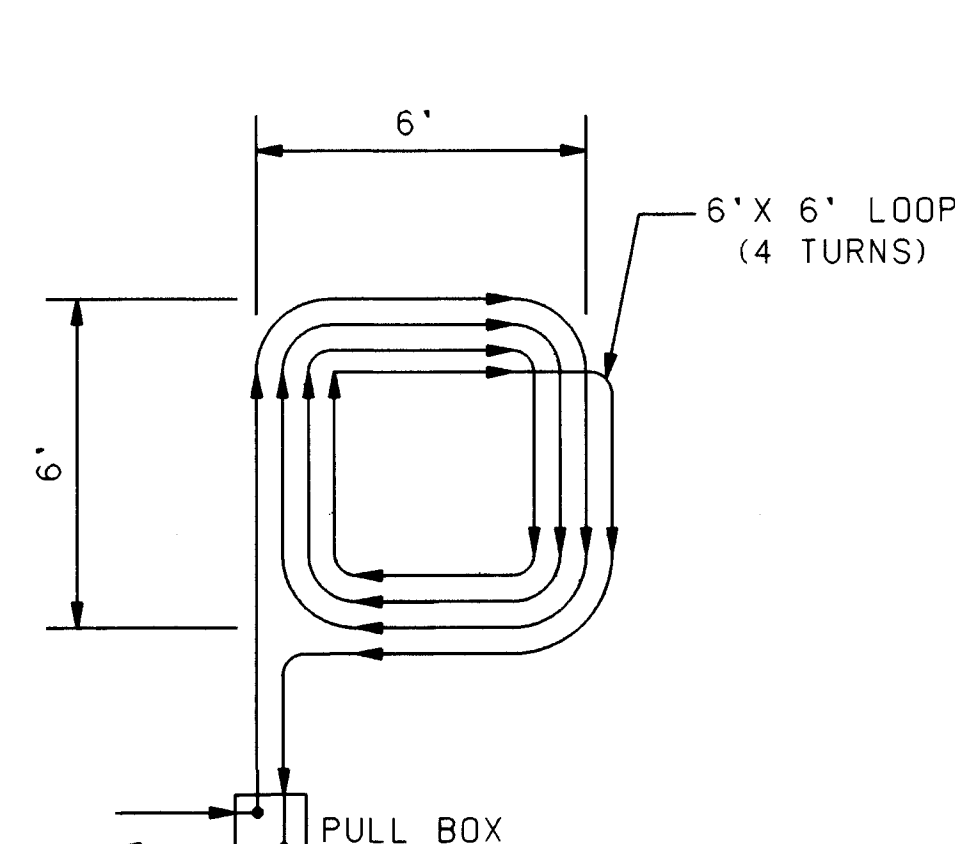
TYPICAL ROADWAY LOOP SAWCUT DETAIL



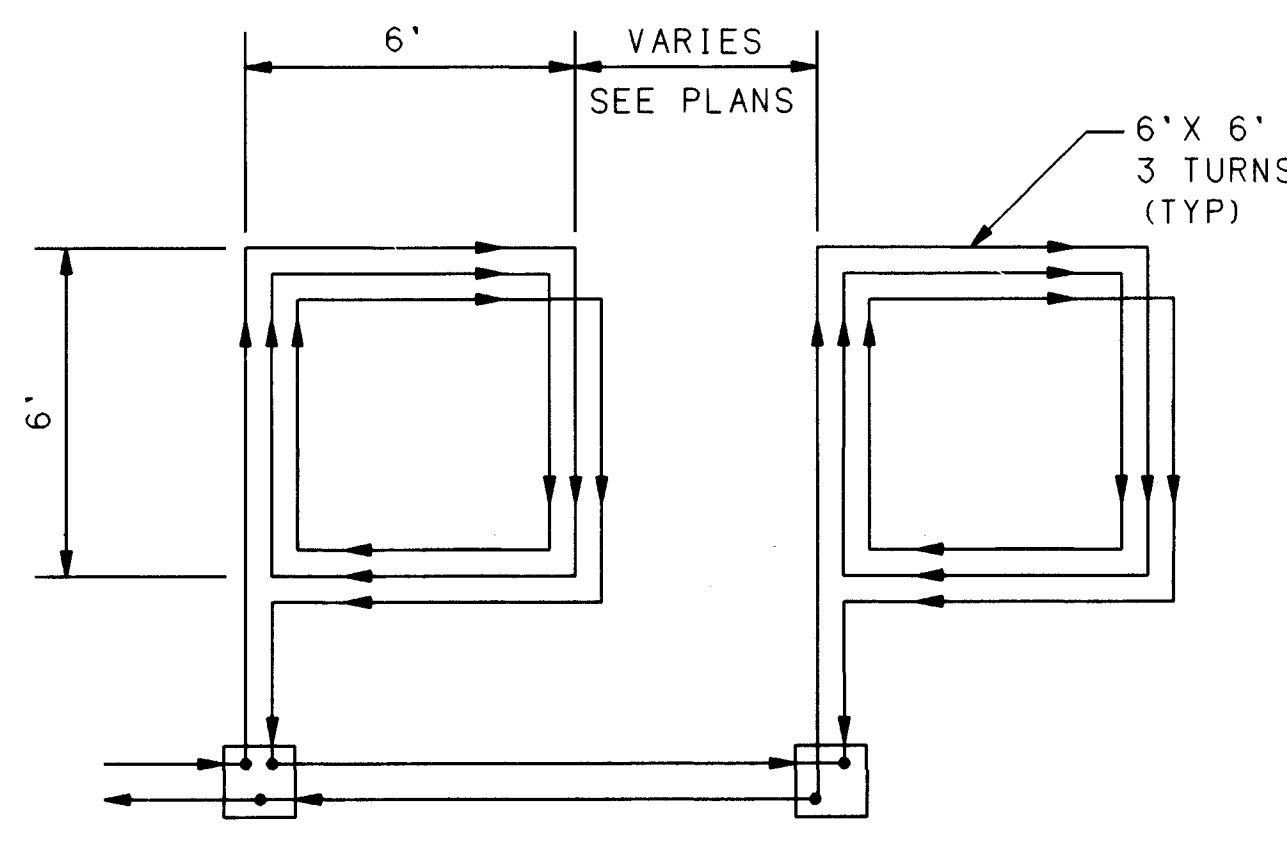
PLAN VIEW



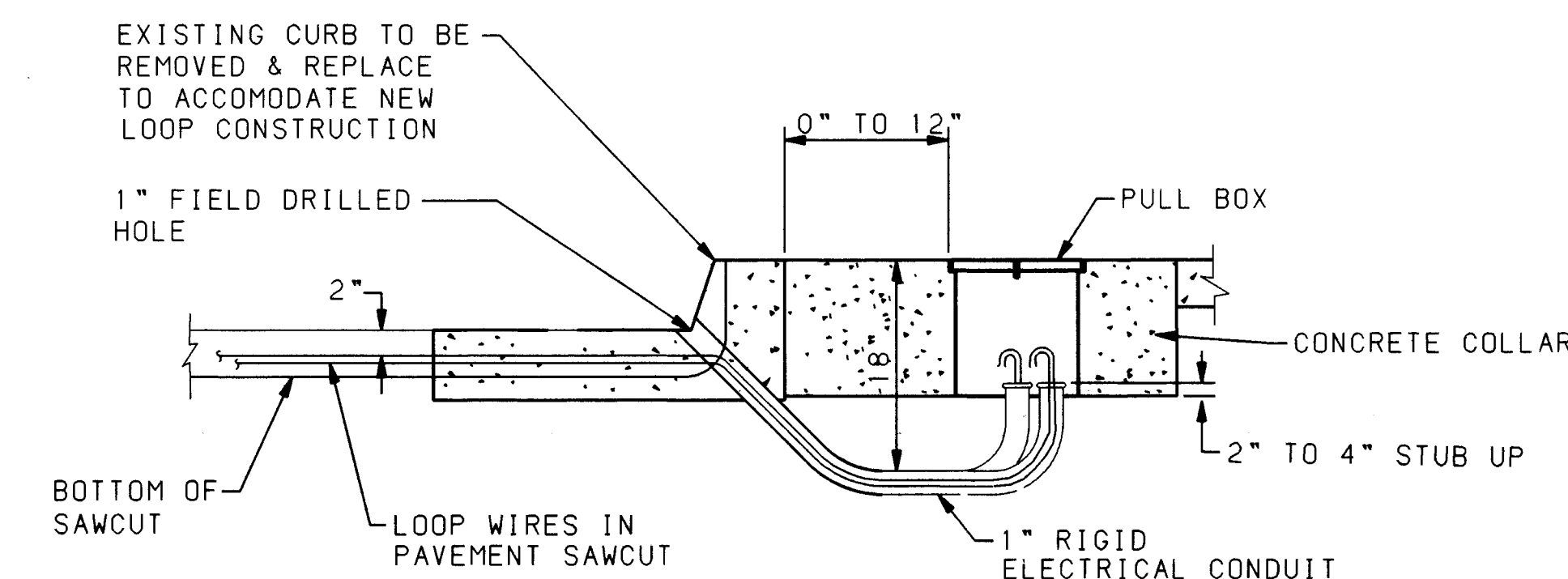
EXTEND CALL LOOP WIRING DETAIL



SYSTEM LOOP WIRING DETAIL

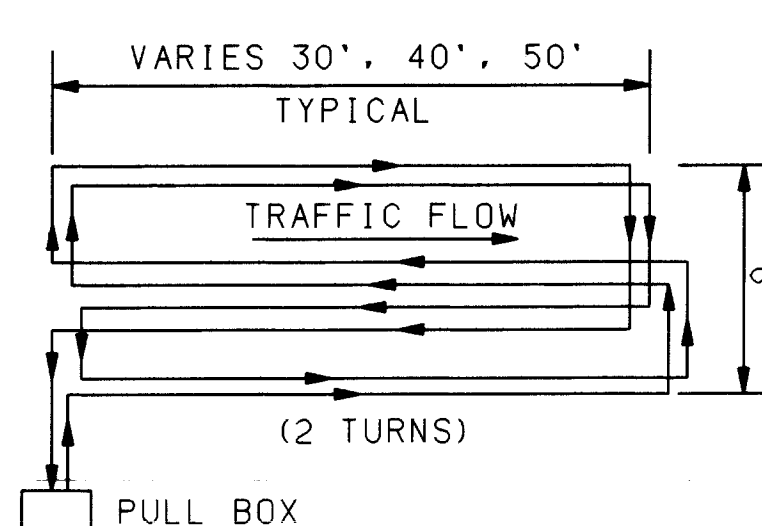


SERIES LOOP WIRING DETAIL

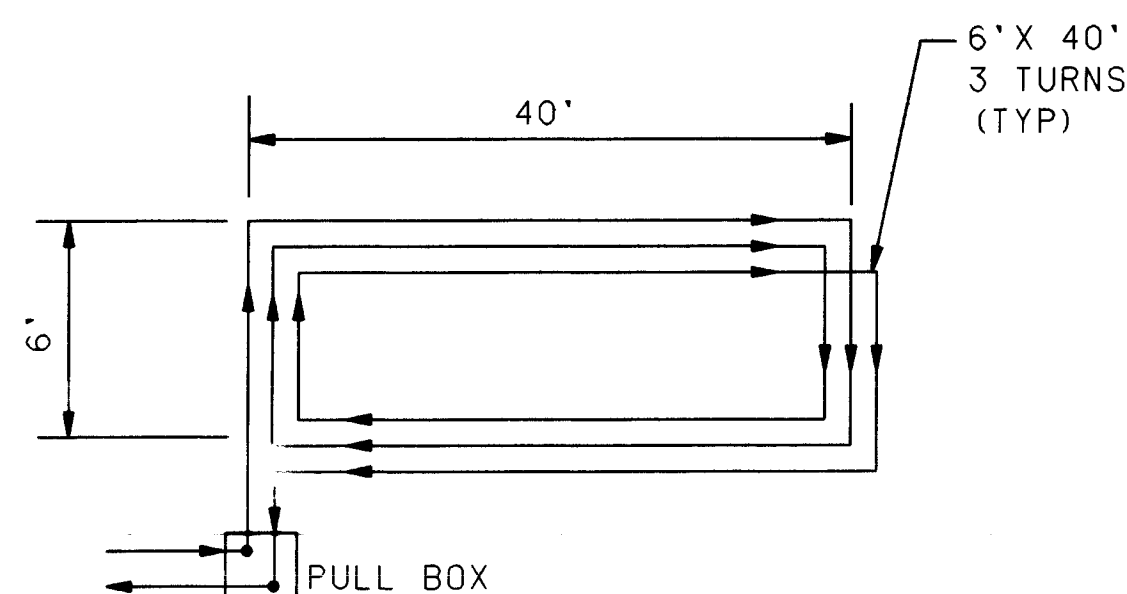


SECTION

LOOP WIRE TERMINATION DETAILS



QUADRUPOLE LOOP WIRING DETAIL



LARGE RECTANGULAR LOOP WIRING DETAIL

TYPICAL LOOP WIRE PLACEMENT DETAILS

NOTES

1. WIRES MUST BE WOUND IN IN THE DIRECTION SHOWN.
2. QUADRUPOLE LOOPS SHALL HAVE 2 TURNS.
3. EXTEND CALL LOOPS SHALL HAVE 3 TURNS.
4. SYSTEM DETECTOR LOOPS SHALL HAVE 4 TURNS.
5. LARGE RECTANGLE LOOPS SHALL HAVE 3 TURNS.

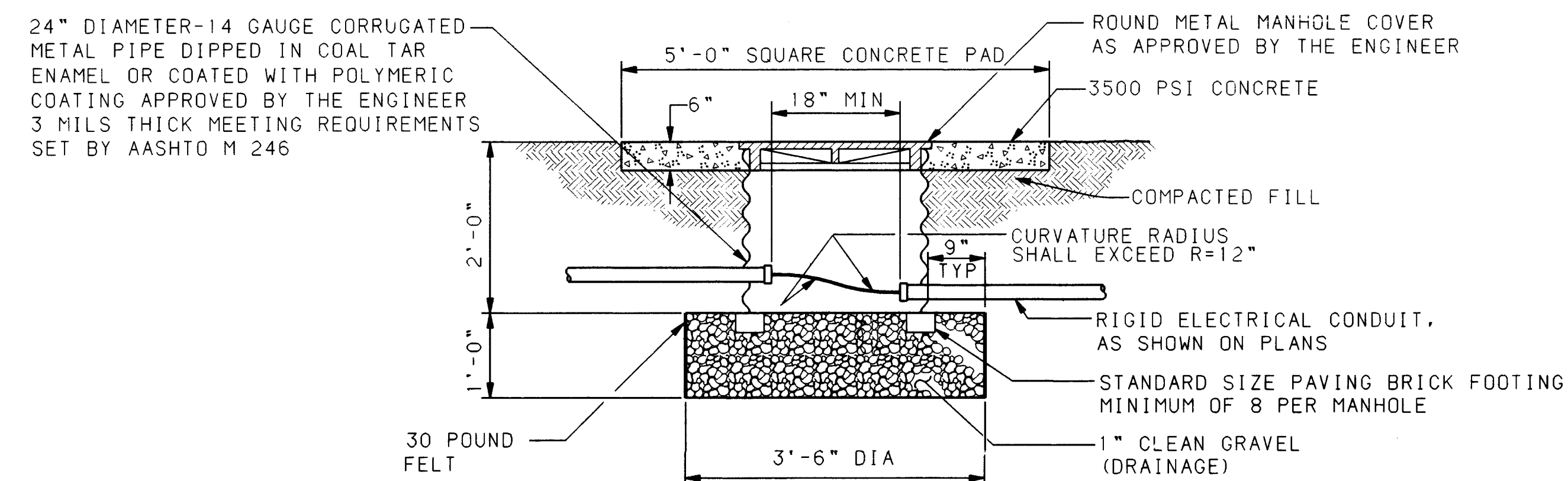
LOOP DETECTOR NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH CROSSLINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF I.M.S.A. SPECIFICATIONS NO 51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAW CUT CORNERS TO HOLD THE WIRE. A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFTCO SHALL BE AN ACCEPTABLE SEALANT ALTERNATE.
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY LOOP AND AND PHASE NUMBER.
3. GROUND LOOP LEAD IN CABLE SHIELDING IN CONTROL CABINET.
4. SEPARATE 1" RIGID ELECTRICAL CONDUITS ARE REQUIRED FOR EACH PAIR OF DETECTOR WIRES.

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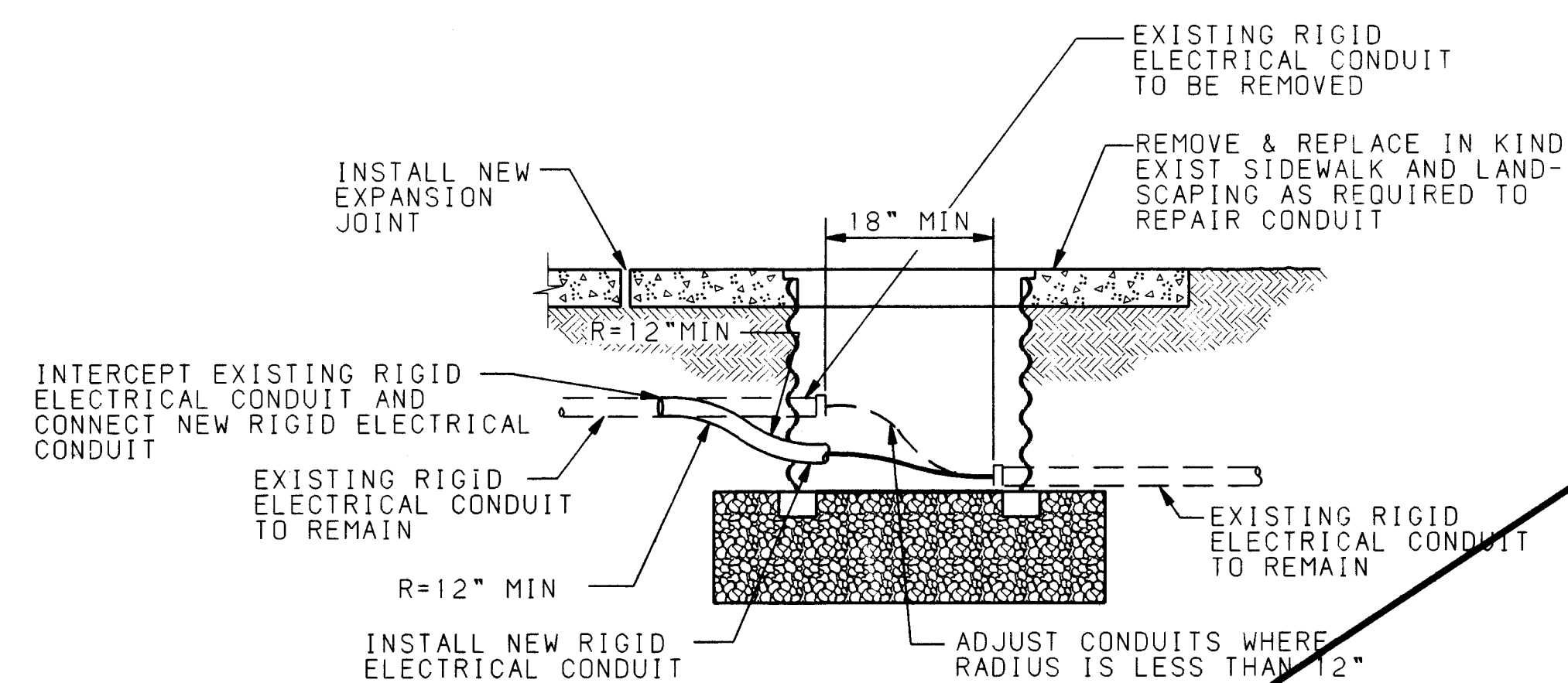
RECORD DRAWING
DATE: 2/17/97

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING		TITLE: TRAFFIC SIGNAL LOOP DETECTOR DETAILS	
APPROVALS	ENGINEER	DATE	ENGINEER
DRC CHAIRMAN	DATE	WATER	DATE
TRANSPORTATION	DATE	WASTE WATER	DATE
HYDROLOGY	DATE	TRAF. OPER.	DATE
DRAWING NO.	3727.90	MAP NO.	A-13/B-13
SHEET	54	OF	72



TRAFFIC SIGNAL MANHOLE (TYPICAL)

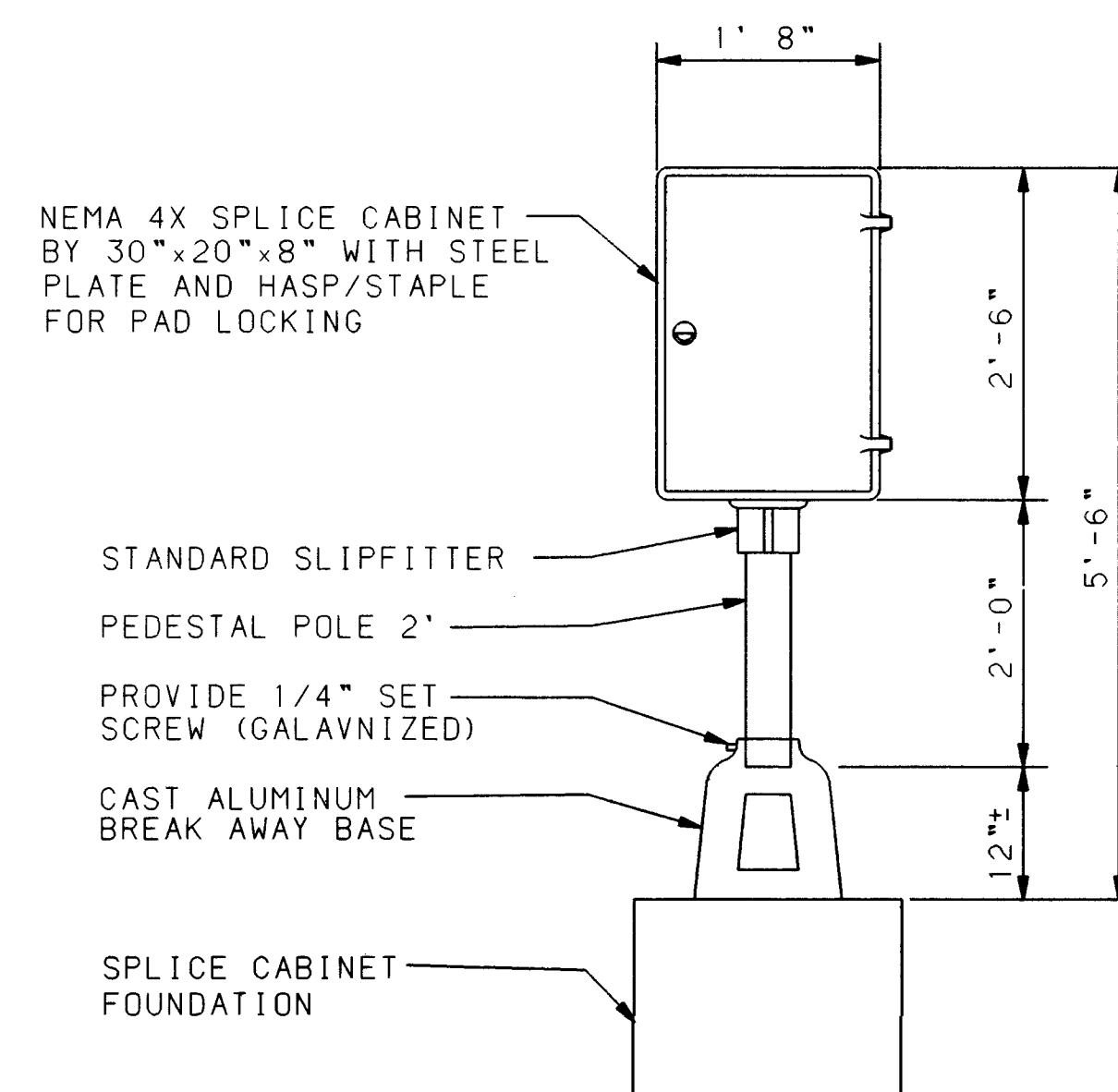
NEW CONDUIT INSTALLATION



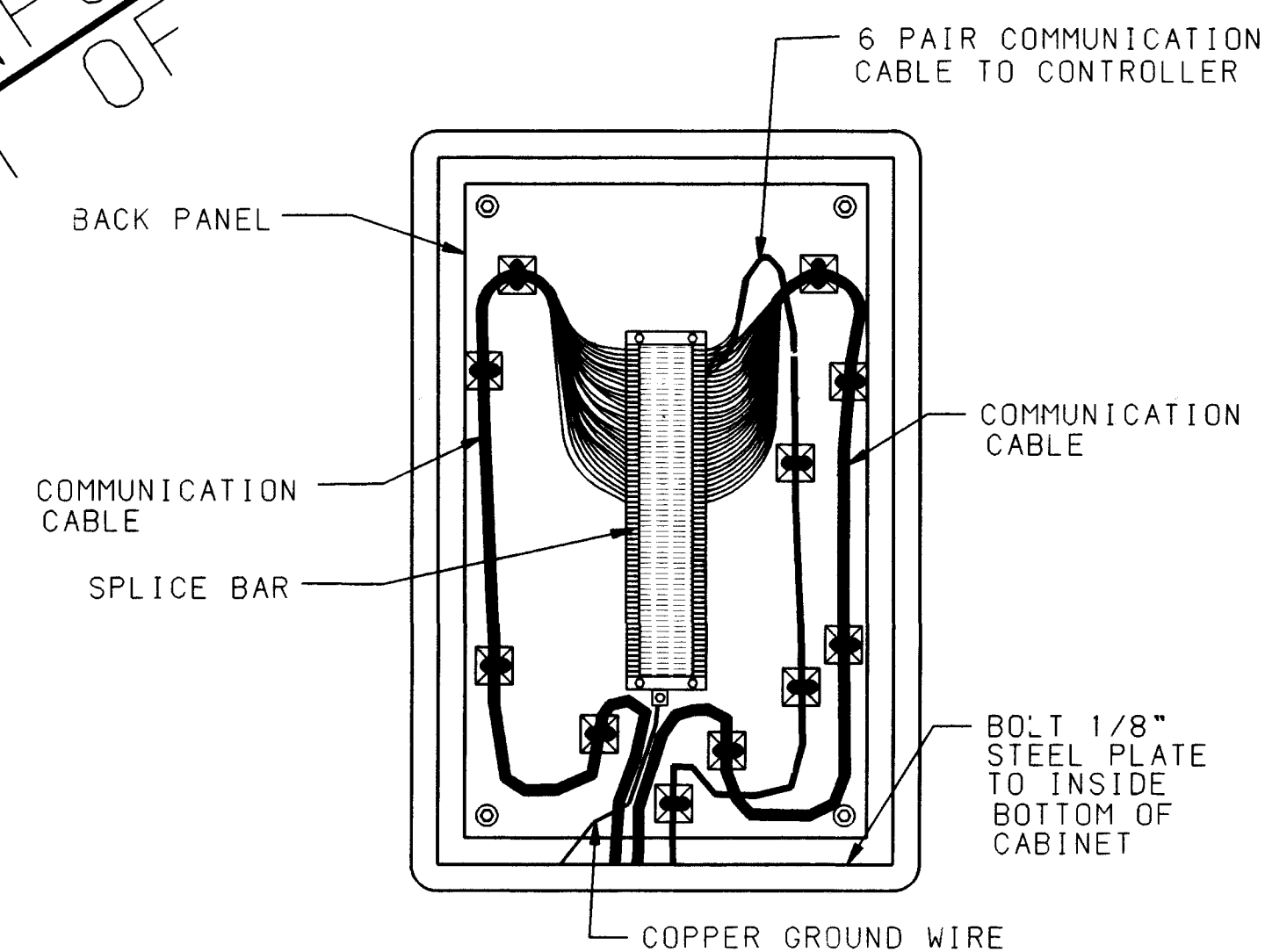
~~TRAFFIC SIGNAL MANHOLE (TYPICAL)~~
~~RETROFIT INSTALLATION~~

NOTES:

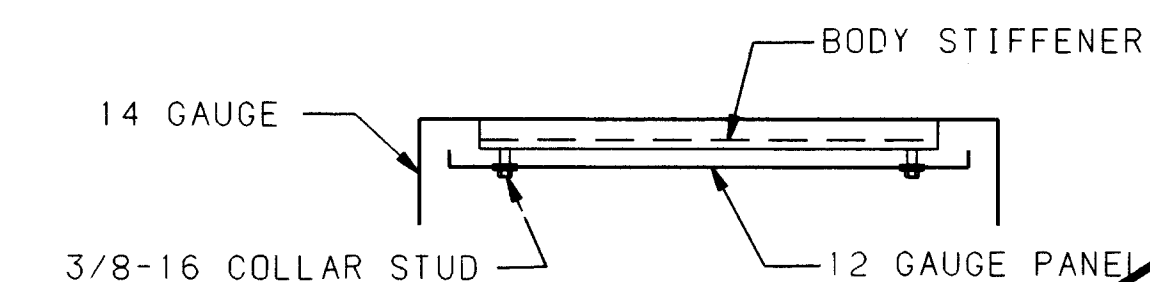
1. TRAFFIC SIGNAL MANHOLE TO BE CONSTRUCTED IN AREAS NOT NORMALLY ACCESSIBLE TO VEHICULAR TRAFFIC.



TRAFFIC SIGNAL
SPLICE CABINET DETAIL



TRAFFIC SIGNAL
SPLICE CABINET WIRING DETAIL



~~SPLICE CABINET PANEL DETAIL~~

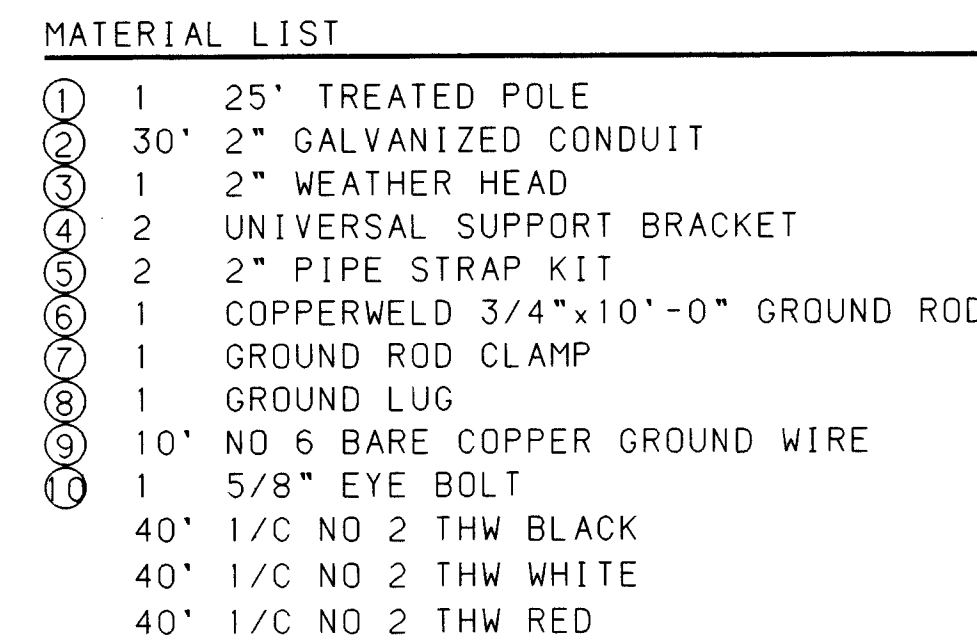


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PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: **2/17/97**

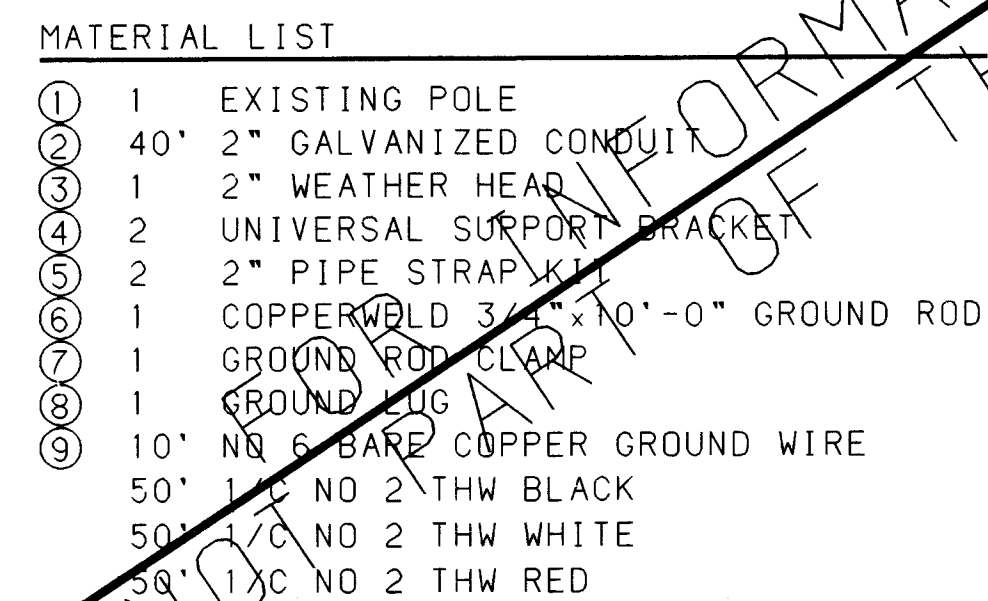
SCANNED BY
BY LASON

		CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING			
TITLE: TRAFFIC SIGNAL TRAFFIC MANHOLE & SPLICE CABINET DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	 3/22/96		WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.		3727.90	MAP NO. A-13/B-13		SHEET 55 OF 72

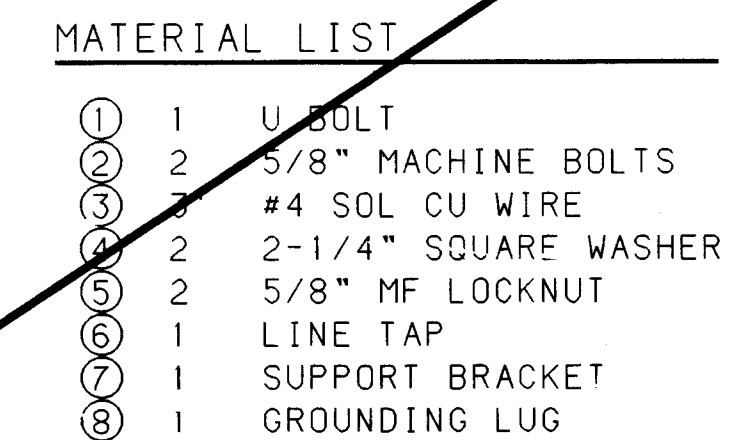


* CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.

1. ALL SIGNAL SERVICE DETAILS, MATERIALS, & INSTALLATION SHALL CONFORM TO PNM ELECTRIC SERVICE GUIDE, LATEST EDITION.
2. CONTACT PNM CUSTOMER SERVICES FOR POLE QUADRANT FOR RISERS.
3. ALL ABOVE GRADE CONDUIT SHALL BE GALVANIZED.
4. RISER BRACKET ASSEMBLY MUST BE GROUNDED PER LOCAL UTILITY COMPANY REQUIREMENTS.
5. CONDUIT AND WIRE EXTENDING MORE THAN 15' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.
6. PROVIDE ONE 50A. SINGLE POLE 120V CIRCUIT FOR CONTROLLER SIGNALS.
7. METER PEDESTAL GROUNDING INCLUDING PULL BOX WITH CONCRETE COLLAR, 1/2" CONDUIT, NO. 2 COPPER WIRE, AND GROUND ROD WILL BE CONSIDERED INCIDENTAL TO THE METER PEDESTAL.
8. UNIVERSAL SUPPORT BRACKETS WILL BE CONSIDERED INCIDENTAL TO THE SERVICE RISER.
9. DRILLING HOLES IN EXISTING STEEL POLES FOR UNIVERSAL SUPPORT BRACKETS WILL NOT BE PERMITTED. BRACKETS SHALL BE MOUNTED ON STEEL POLES WITH STAINLESS STEEL BANDS.



* CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.

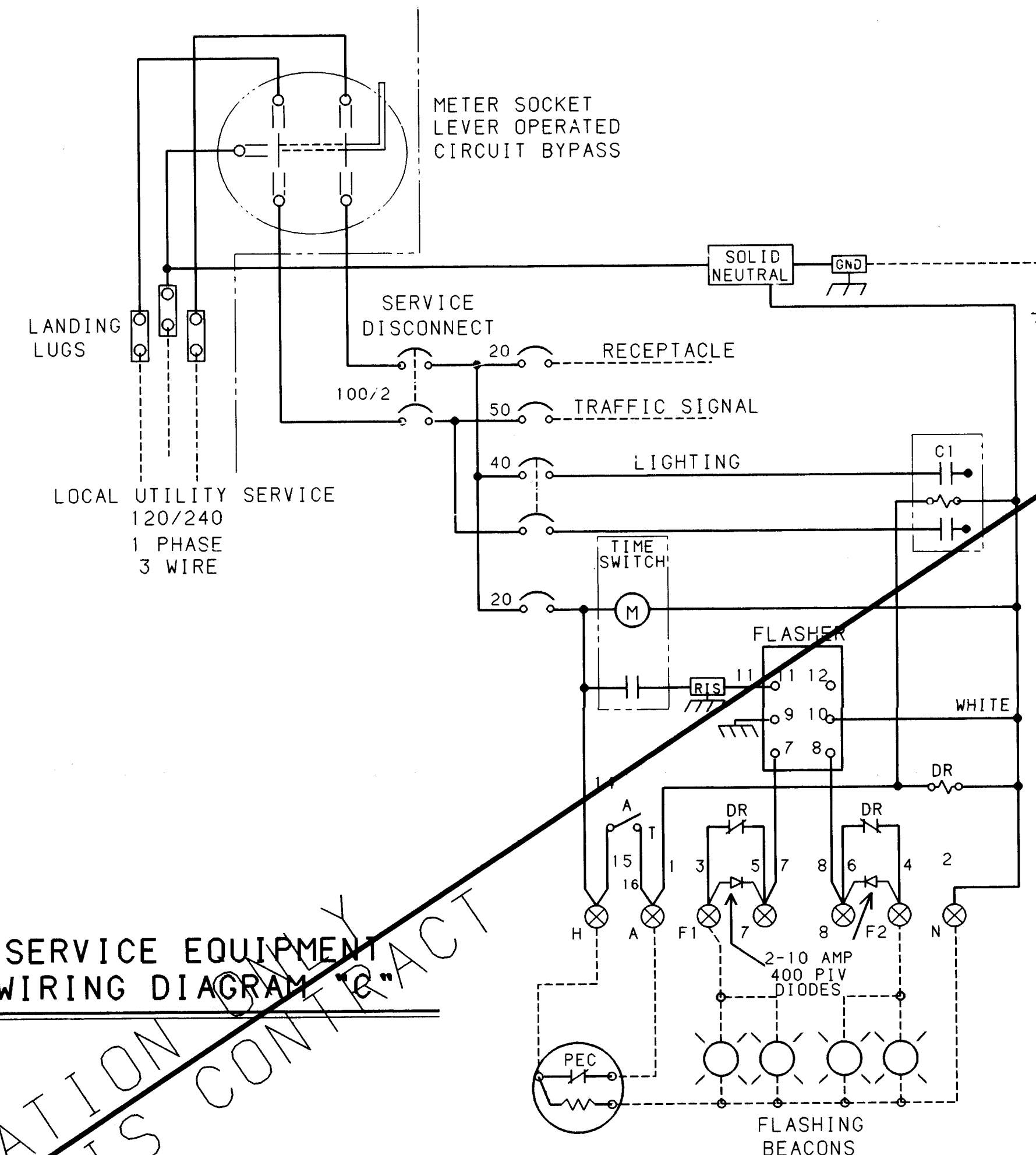


1. BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
2. BRACKET SUITABLE FOR TWO 2" CONDUITS.
3. TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.

RECORD DRAWING
DATE: **2/17/97**

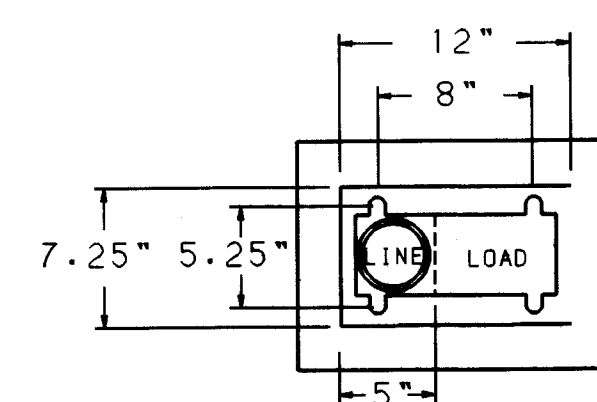
		CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING			
TITLE: ELECTRICAL SERVICE DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. J. B.</i> <i>3/20/96</i>		WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.		MAP NO.		SHEET OF	
3727.90		A-13/B-13		56 72	

[illegible]



SERVICE EQUIPMENT
WIRING DIAGRAM

FRONT VIEW



BASE PLAN

CLASS 26-000 ENCLOSURE CONSTRUCTION NOTES

1. THE ENCLOSURE SHALL BEAR A 508 UL LABEL.
2. THE ENCLOSURE SHALL MEET THE ELECTRIC UTILITY SERVICE EQUIPMENT REQUIREMENTS COMMITTEE ((EUSERC) GUIDELINES.
3. CONSTRUCTION SHALL BE NEMA 3R AND 12. RAIN TIGHT AND DUST TIGHT. ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
4. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
5. NUTS, BOLTS & SCREWS SHALL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
6. PHENOLIC NAMEPLATES SHALL BE PROVIDED AS REQUIRED.
7. CONTROL WIRING SHALL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
8. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
9. ENCLOSURE SHALL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
10. ALL POWDER COATED CABINETS SHALL HAVE A CORROSION RESISTANT COATING SYSTEM WHICH INCLUDES A FIVE STEP DIP TANK METAL PREPARATION PROCESS:
 - A. ALKALINE CLEANER 160°F.
 - B. CLEAR WATER RINSE.
 - D. IRON PHOSPHATE APPLICATION 150°F.
 - E. CLEAR WATER RINSE.
 - F. INHIBITIVE RINSE TO SEAL PHOSPHATED SURFACES 120°FFINISHED WITH AN ELECTROSTATICALLY APPLIED DRY POLYESTER POWDER COATING. THEN BAKED @ 380°F TO CURE.
11. CONCRETE FOUNDATIONS INCLUDING EXCAVATION AND BACKFILL, CONCRETE, AND ANCHOR BOLTS, COMPLETE IN PLACE, WILL BE CONSIDERED INCIDENTAL TO THE MEIER PEDESTAL.

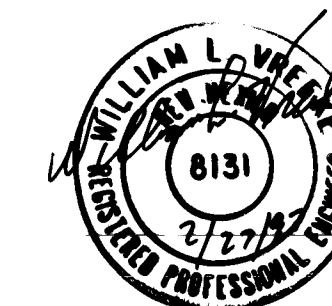
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CONSTRUCTION MATERIALS AND FINISH

☐	12 GA HD GALV SHEET AND POWDER COATED COLOR: _____
☐	14 GA #304D S/S SHEET ☐ POWDER COATED COLOR: _____ ☐ NATURAL
☐	0.125" ALUMINUM SHEET ☐ POWDER COATED COLOR: _____ ☐ NATURAL ☐ ANODIZED

POWDER COAT COLORS

WHITE	RANCH GREEN
MINT GREEN	OTHER _____
CAMEL	

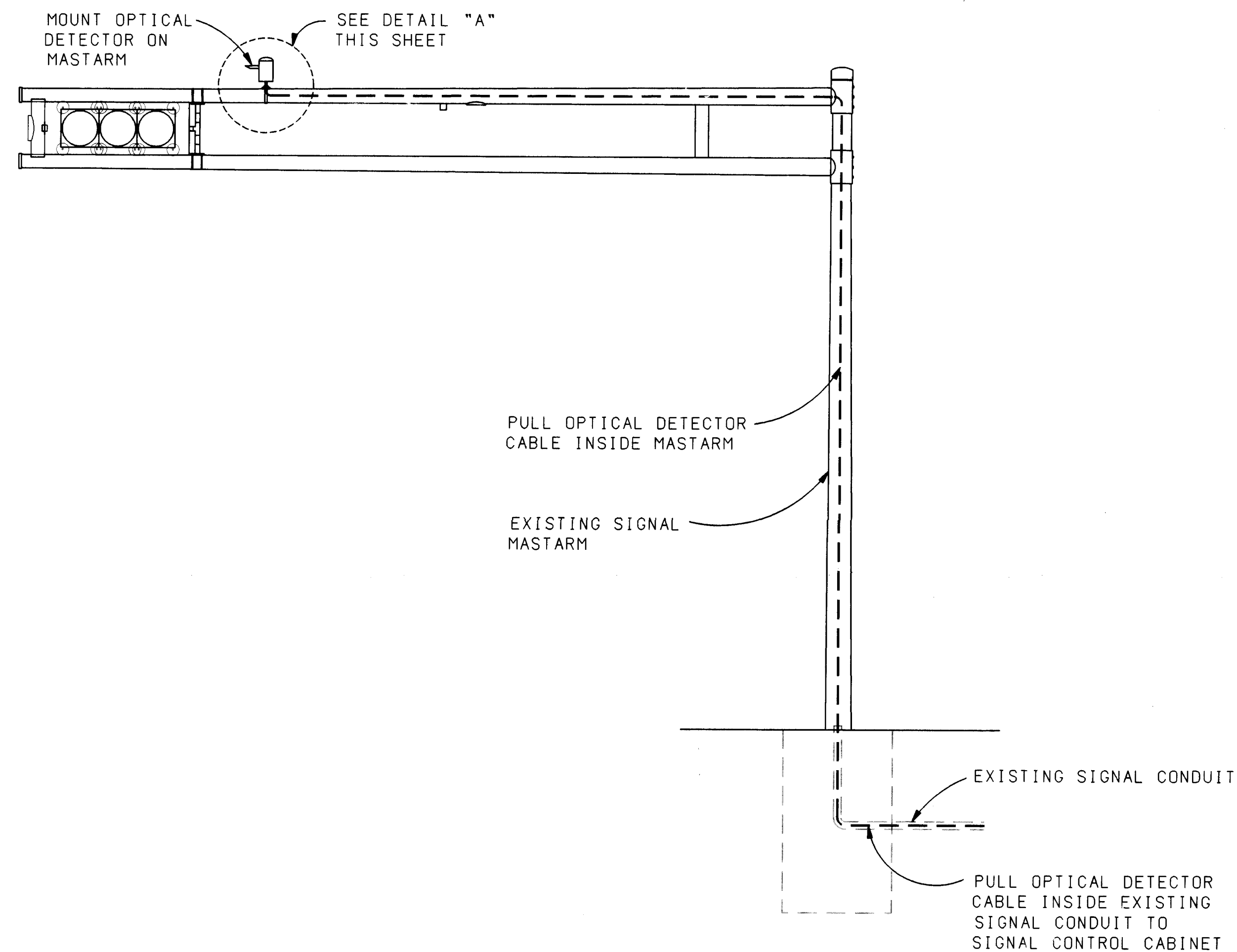


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PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

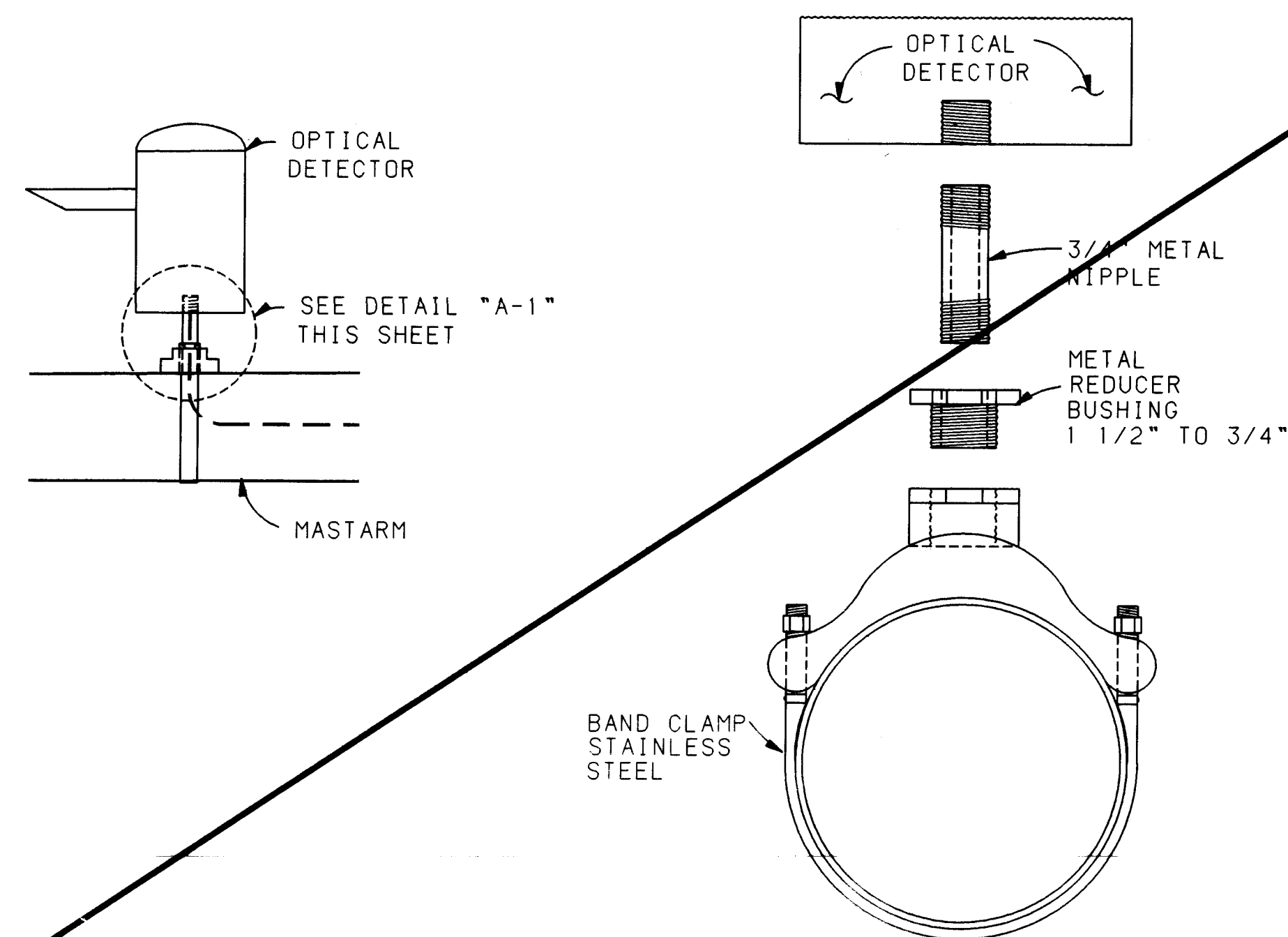
RECORD DRAWING

RECORD DRAWING
DATE: **2/17/97**

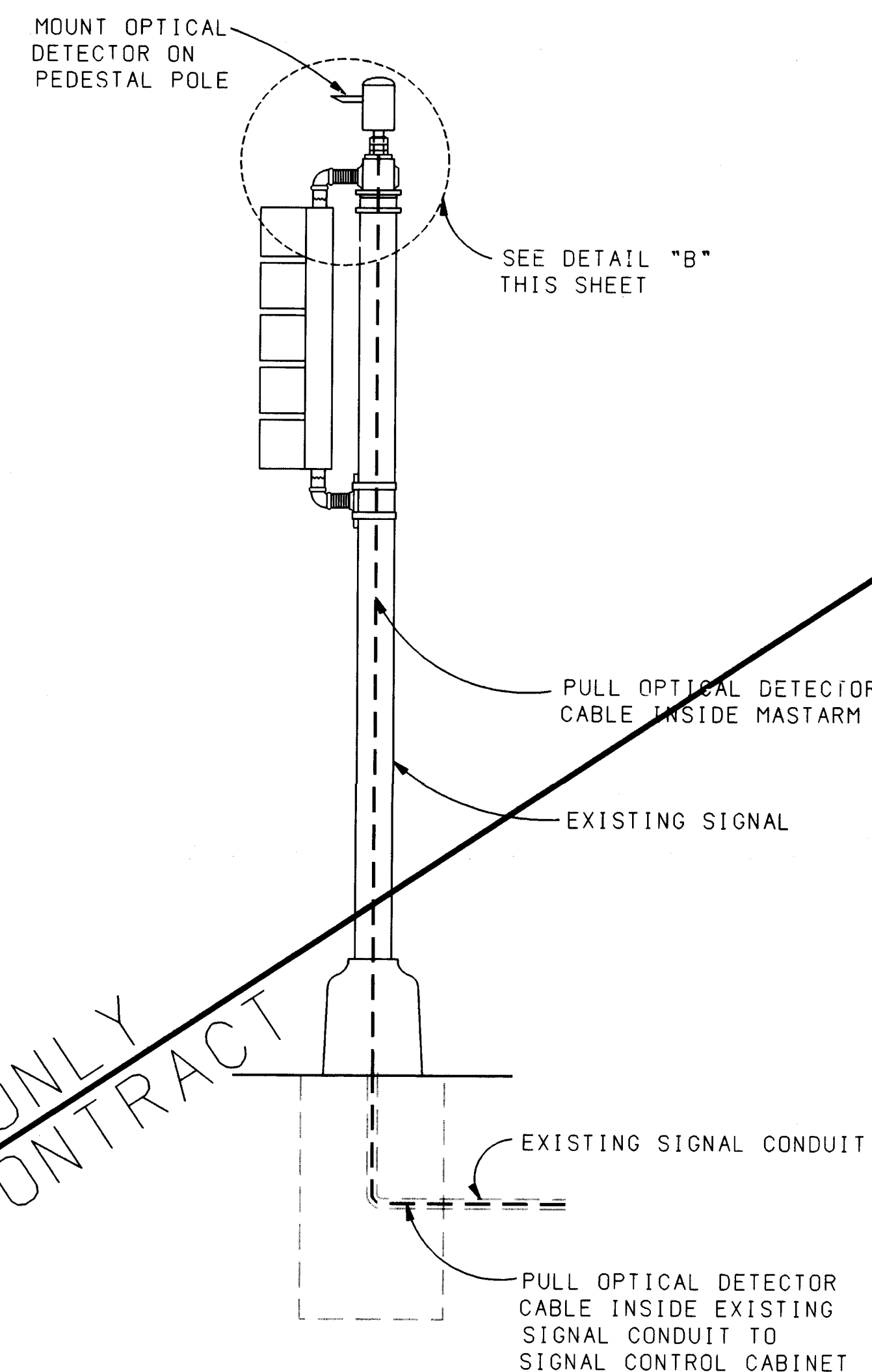
 INC.	CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING	 INC.			
TITLE: TRAFFIC SIGNAL METER PEDESTAL DETAILS FOR SIGNALS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. [Signature]</i>		WATER		
TRANSPORTATION	<i>[Signature]</i>		WASTE WATER		
HYDROLOGY	<i>[Signature]</i>		TRAF. OPER.		
DRAWING NO. 3727-90		MAP NO. A-13/B-13		SHEET 57 OF 72	



**TYPICAL OPTICAL DETECTOR
INSTALLATION - MASTARM**

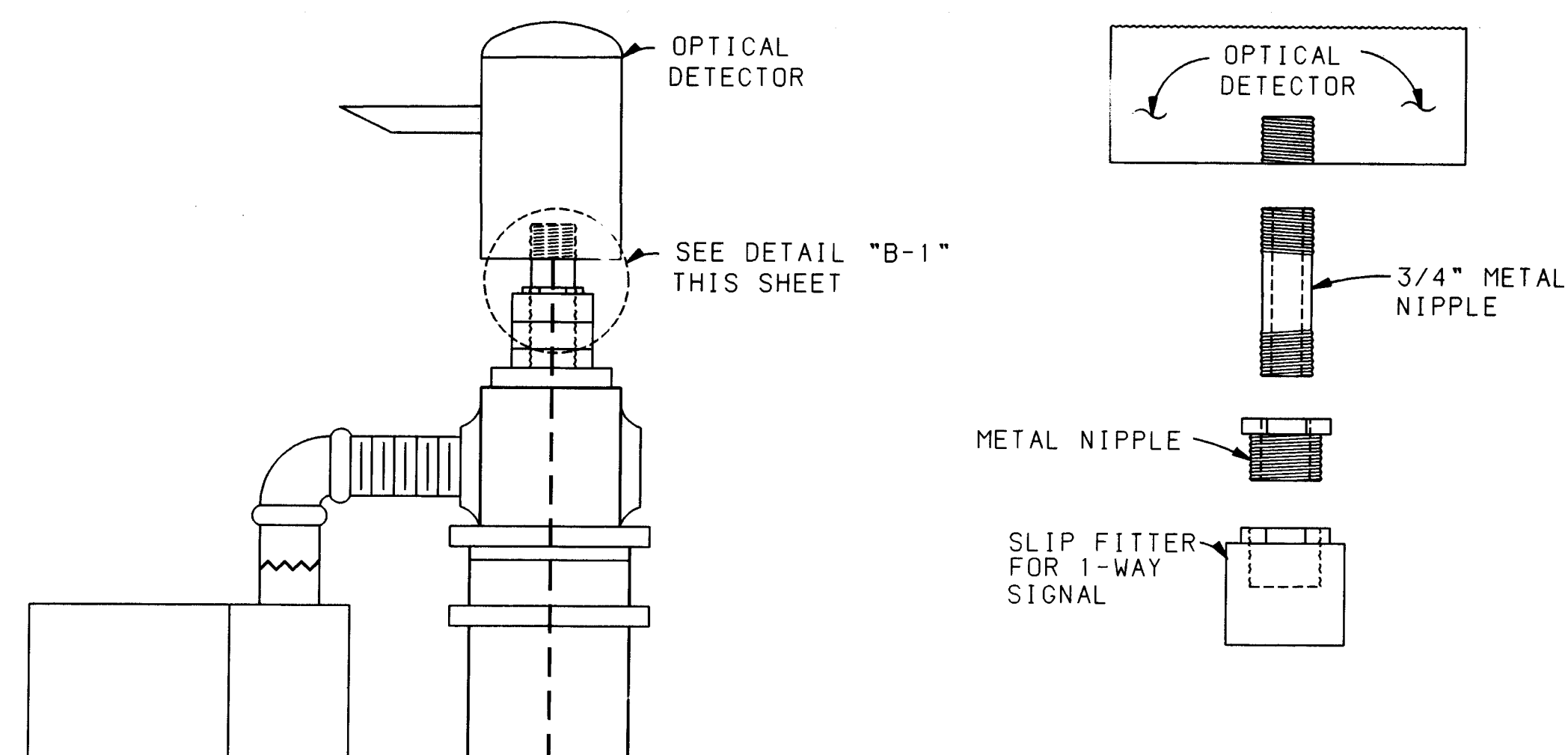


**OPTICAL DETECTOR
MOUNTING - DETAIL "A"**



**TYPICAL OPTICAL DETECTOR
INSTALLATION - PEDESTAL POLE**

NOTE: OPTICAL DETECTORS SHALL ONLY BE MOUNTED
ON PEDESTAL POLES WHEN THERE IS NO MASTARM.



DETAIL "B-1"

**OPTICAL DETECTOR
MOUNTING - DETAIL "B"**

SCANNED BY
BY LASON

NOTE

1. ALL OPTICAL DETECTOR MOUNTING HARDWARE
SHALL CONFORM TO OPTICAL DETECTOR
MANUFACTURER'S REQUIREMENTS.

FOR INFORMATION ONLY
NOT PART OF THIS CONTRACT

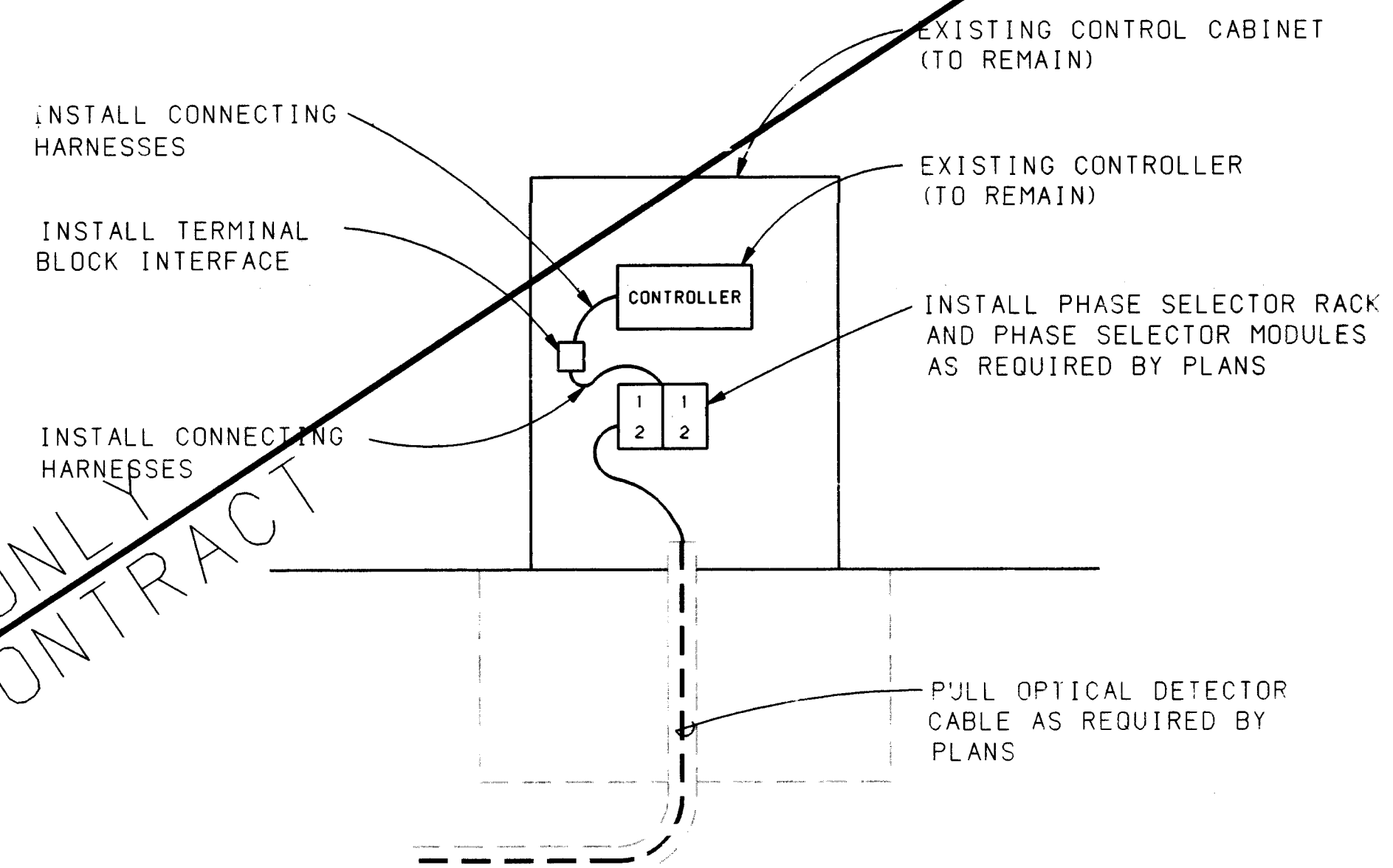
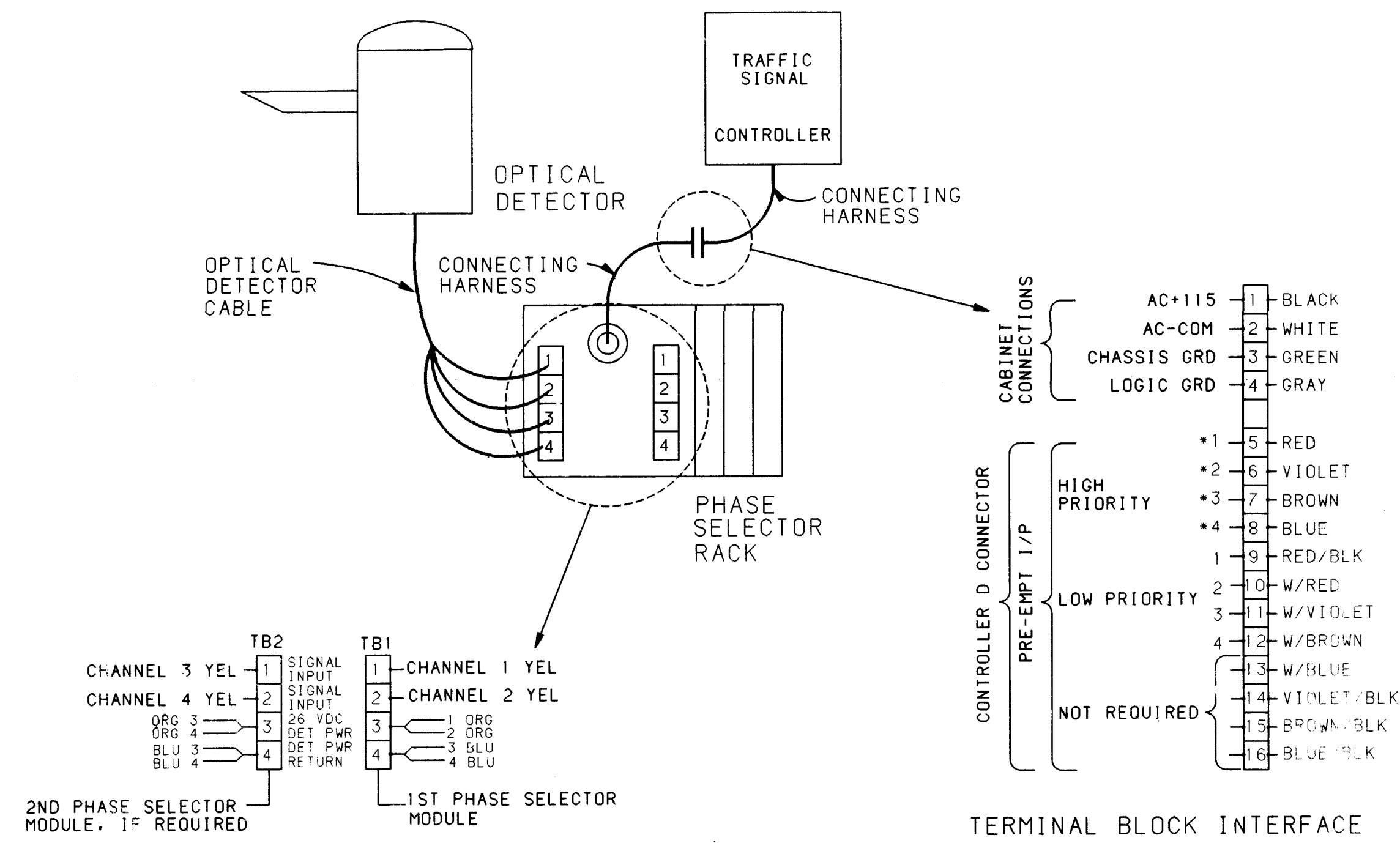


THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN-HUSTON, INC. WITH INFORMATION
PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

RECORD DRAWING
DATE: **2/17/97**

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: TRAFFIC SIGNAL OPTICAL DETECTOR INSTALLATION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO.	3727.90	MAP NO.	A-13/B-13	SHEET	58 OF 72

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE 2-94		DATE 2-94		DATE 2-94	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
AUI	2/97																
INSPECTOR'S																	
BY BHI	2/97																
VERIFICATION BY BHI	2/97																
CONNECTED BY BHI	2/97																
MICRO-FILM INFORMATION																	
RECORDED BY																	
NO.																	



SCANNED BY LASON

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RECORD DRAWING
DATE: 2/17/97

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: TRAFFIC SIGNAL OPTICAL DETECTOR WIRING					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DGC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			TRAF. OPER.		
DRAWING NO. 3727.90		MAP NO. A-13/B-13		SHEET 59 OF 72	

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	NO.	BY	DATE	DATE
BOHANNAN-HUSTON, INC.	2/17/97				
DESIGNED BY	DATE	NO.	BY	DATE	DATE
BOHANNAN-HUSTON, INC.	2/17/97				
CHECKED BY	DATE	NO.	BY	DATE	DATE
BOHANNAN-HUSTON, INC.	2/17/97				

SEQUENCE OF CONSTRUCTION

WEST HALF ELLISON DRIVE CONSTRUCTION

NOTE: PHASES 1 THRU 4 SHALL BE COMPLETED IN 14 WEEKS WITH CONSTRUCTION BEING COMPLETED DURING NON PEAK HOURS BETWEEN 8:00AM AND 3:30PM.

PHASE 1

1. INSTALL TEMPORARY PAVEMENT ALONG THE SOUTH SIDE OF EXISTING ELLISON DRIVE BETWEEN 7 BAR LOOP (NORTH) AND BLACK'S DIVERSION CHANNEL.
2. TRAFFIC SHALL BE REDUCED FROM 30-MPH TO 15-MPH THRU THE CONSTRUCTION ZONE.
3. TRAFFIC SHALL BE MAINTAINED ON EXISTING ELLISON DRIVE WITH ONE LANE OF TRAFFIC IN EACH DIRECTION.

PHASE 2

1. RELOCATE 1200 LF OF 12" PVC WATER LINE.
2. CONSTRUCT OF 1350 LF OF THE PROPOSED NORTH HALF OF ELLISON DRIVE.
3. INSTALL 40' LF OF TEMPORARY PAVEMENT BETWEEN 7 BAR LOOP (NORTH) AND THE EXISTING PAVEMENT AT 7 BAR LOOP (SOUTH).
4. INSTALL TEMPORARY PAVEMENT AT 7 BAR LOOP (SOUTH) ENTRANCE.
5. CONSTRUCT 500 LF OF THE PROPOSED SOUTH HALF OF ELLISON DRIVE BETWEEN GOLF COURSE ROAD AND 7 BAR LOOP (SOUTH).
6. TRAFFIC SHALL BE MAINTAINED ON EXISTING ELLISON DRIVE AND TEMPORARY PAVEMENT WITH ONE LANE OF TRAFFIC IN EACH DIRECTION.
7. THE SPEED LIMIT SHALL BE REDUCED FROM 30-MPH TO 25-MPH THRU THE CONSTRUCTION ZONE.

PHASE 3

1. COMPLETE EASTBOUND LANES BETWEEN BLACK'S DIVERSION CHANNEL AND 7 BAR LOOP (SOUTH).
2. TRAFFIC SHALL BE MAINTAINED ON THE COMPLETED NORTH HALF OF ELLISON DRIVE AND THE TEMPORARY PAVEMENT WITH ONE LANE OF TRAFFIC IN EACH DIRECTION.
3. THE SPEED LIMIT SHALL BE REDUCED FROM 30-MPH TO 25-MPH THRU THE CONSTRUCTION ZONE.

PHASE 4

1. CONSTRUCT THE REMAINING PORTION OF THE WESTBOUND LANES OF ELLISON DRIVE BETWEEN 7 BAR LOOP (NORTH) AND GOLF COURSE ROAD.
2. TRAFFIC SHALL BE RESTRICTED TO THE COMPLETED EASTBOUND LANES OF ELLISON DRIVE (SOUTH SIDE) WITH ONE LANE OF TRAFFIC IN EACH DIRECTION.
3. THE SPEED LIMIT SHALL BE REDUCED FROM 30-MPH TO 25-MPH THRU THE CONSTRUCTION ZONE.

EAST HALF ELLISON DRIVE CONSTRUCTION

NOTE: PHASES 5 THRU 9 SHALL BE COMPLETED IN 16 WEEKS WITH CONSTRUCTION BEING COMPLETED DURING NON PEAK HOURS BETWEEN 8:00AM AND 3:30PM.

PHASE 5A

1. CONSTRUCT TEMPORARY PAVEMENT FOR CIBOLA LOOP DETOUR.
2. THE SPEED LIMIT SHALL BE REDUCED FROM 30-MPH TO 25-MPH THRU THE CONSTRUCTION ZONE.
3. MAINTAIN ACCESS TO ALL BUSINESS AND RESIDENCES AT ALL TIMES.

PHASE 5B

1. CONSTRUCT 2500 LF OF THE PROPOSED NORTH HALF OF ELLISON DRIVE BETWEEN COORS BYPASS AND BLACK'S DIVERSION CHANNEL.
2. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

PHASE 6

1. COMPLETE NORTH HALF OF PROPOSED ELLISON DRIVE.
2. CONSTRUCT TEMPORARY PAVEMENT SECTIONS FOR HIGH SCHOOL DRIVEWAY.
3. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

PHASE 7

1. CONSTRUCT TWO SECTIONS OF ELLISON DRIVE IN FRONT OF CIBOLA HIGH SCHOOL. ONE ACCESS SHALL BE MAINTAINED TO EACH PARKING LOT AT ALL TIMES.
2. BUS ACCESS SHALL USE THE WEST PARKING LOT.
3. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

PHASE 8

1. CONSTRUCT LAST TWO SECTIONS OF ELLISON DRIVE IN FRONT OF CIBOLA HIGH SCHOOL. ONE ACCESS SHALL BE MAINTAINED TO EACH PARKING LOT AT ALL TIMES.
2. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

PHASE 9

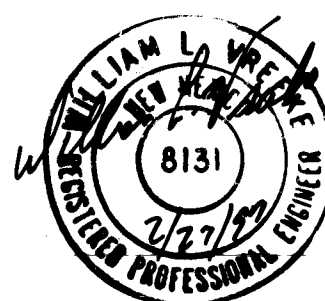
1. COMPLETE MEDIANS USING TYPICAL LEFT LANE CLOSURE BETWEEN 8:00AM AND 3:30PM.
2. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

- * PHASES 7 AND 8 MUST BE COMPLETED DURING THE SUMMER BREAK PERIOD AT CIBOLA HIGH SCHOOL (MAY 23RD THRU AUGUST 9TH).
- * PHASES 5 AND 6 CAN BE CONSTRUCTED AND COORDINATED AT THE SAME TIME WITH PHASES 1 THRU 4 IF THE CONTRACTOR WISHES.

TRAFFIC CONTROL GENERAL NOTES

1. REFER TO SHEETS 61 AND 62 FOR ADDITIONAL NOTES AND TYPICAL CONSTRUCTION TRAFFIC CONTROL REQUIREMENTS AND STRATEGIES.
2. SEPARATE PERMITS WILL BE REQUIRED FOR EVERY LANE CLOSURE. EACH PERMIT SHALL BE CLEARED BY THE CONSTRUCTION DIVISION OF THE CITY OF ALBUQUERQUE FOR INTERFERENCE WITH OTHER CONSTRUCTION PROJECTS. THE CONTRACTOR SHALL ALLOW ENOUGH TIME BETWEEN THE PERMITS REQUEST AND CONSTRUCTION BEFORE SCHEDULING CREWS AND EQUIPMENT.
3. CONTRACTOR SHALL COORDINATE WITH THE CITY'S CONSTRUCTION COORDINATION DIVISION TO INSURE THAT PROJECT MONITORING PERSONNEL ARE ON-DUTY DURING THE PROPOSED WORK SCHEDULE.
4. CONTRACTOR SHALL IMPLEMENT, MAINTAIN AND MANAGE CONSTRUCTION TRAFFIC AND PEDESTRIAN ACCESS CONTROL ON THE PROJECT TO PROVIDE SAFE WORKING CONDITIONS FOR ALL PROJECT PERSONNEL AND SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH AND AROUND WORK AREAS AT ALL TIMES.
5. THE CONTRACTOR SHALL REMEDY UNSAFE CONSTRUCTION TRAFFIC CONTROL CONDITION IMMEDIATELY UPON DISCOVERY OR NOTIFICATION.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AND BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNERS 48-HOURS PRIOR TO BEGINNING CONSTRUCTION.
7. TWO WORKING DAYS PRIOR TO THE FINAL CONSTRUCTION TRAFFIC CONTROL SETUP IN EACH WORK AREA, AND TWO WORKING DAYS PRIOR TO ALL CHANGES IN CONSTRUCTION TRAFFIC CONTROL WHICH INVOLVE STREET OR LANE CLOSURES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING:

CITY AND COUNTY FIRE AND RESCUE DEPARTMENTS
CITY AND COUNTY POLICE DEPARTMENTS
LOCAL NEWS MEDIA
LOCAL SCHOOLS
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONCRETE OR WATER FILLED WALL BARRIERS AT ALL LOCATIONS WHERE EXCAVATIONS ARE OPEN WITHIN TWENTY-FIVE FEET (25') OF THE EDGE OF THE TRAVELED WAY. CONTRACTOR SHALL FLARE THE ENDS OF THE TEMPORARY WALL BARRIERS AWAY FROM TRAFFIC.
9. THE CONTRACTOR SHALL REVIEW THE OPERATIONAL PRACTICES AND PROCEDURES ON A DAILY BASIS TO EXPEDITE THE WORK AND CLEAR THE RIGHT-OF-WAY AS SOON AS POSSIBLE.
10. CONTRACTOR SHALL SWEEP ROADWAY SHOULDERS AND DETOURS FREE OF DEBRIS BEFORE ROUTING TRAFFIC ONTO SHOULDERS AND DETOURS.
11. ALL WARNING SIGNS SHALL BE 36" X 36" MINIMUM WITH SUPER ENGINEERING GRADE OR GREATER AND SHALL HAVE AT LEAST ONE WARNING LIGHT.
12. ALL COST FOR CONSTRUCTION TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO COORDINATION, PLANNING, SCHEDULING, WORK DURING OFF HOURS, SETUPS, RESETTling, MAINTENANCE, TAKEDOWNS, FLAGGERS, STRIPING, STRIPE REMOVAL, SIGNS, BARRICADES, BARRELS, POST, BASES, TRAFFIC CONTROL, FENCING, TEMPORARY WALL BARRIERS, CRASH CUSHIONS, PLATING, PATCHING, TEMPORARY PAVEMENT INSTALLATION AND REMOVAL, ETC., SHALL BE INCLUDED IN THE LUMP SUM BID FOR THE CONSTRUCTION TRAFFIC CONTROL. PHASE PLANS ARE MINIMUM TRAFFIC CONTROL. FIELD ADJUSTMENTS WILL BE NECESSARY AS PARTICULAR WORK IS DONE. MODIFICATIONS ARE INCLUDED IN THIS BID ITEM.
13. CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC OPERATION (857-8000) TO OPERATE SIGNAL TEMPORARY AS SPLIT PHASE ON ELLISON DURING PHASES 6 THRU 7 THREE DAYS BEFORE PHASE 6 BEGINS.
14. ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON LIGHT-TRANSMITTING MATERIAL. ALL REMAINING NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER. EXISTING CENTERLINE STRIPING SHALL BE REMOVED.
15. THE CONTRACTOR SHALL PREPARE A DETAILED PATH PROJECT FOR THE PROJECT BEFORE BEGINNING CONSTRUCTION. THIS SCHEDULE SHALL BE SUBMITTED TO THE CITY'S CONSTRUCTION COORDINATOR FOR PREVIEW, COMMENTS, AND APPROVAL. THE SCHEDULE SHALL BE USED FOR ESTABLISHING MAJOR CONSTRUCTION OPERATIONS AND FOR DETERMINING THE PROGRESS OF THE WORK. SHOULD IT BECOME APPARENT TO THE PROJECT MANAGER OR THE CONTRACTOR THAT THE CONTRACTOR WILL NOT BE ABLE TO MEET THE REQUIREMENTS OF THE SCHEDULE, THE CONTRACTOR SHALL SUBMIT A REVISED SCHEDULE REFLECTING THE ACTUAL AUTHORIZED TIME LEFT FOR REVIEW AND APPROVAL. REQUEST FOR TIME EXTENSIONS SUBMITTED BY THE CONTRACTOR WILL BE COMPARED TO THE CRITICAL PATH AND APPROVED OR DENIED ON THIS BASIS. THE CONTRACTOR SHALL UPDATE THE SCHEDULE MONTHLY AND SUBMIT WITH THE MONTHLY PAYMENT REQUEST.



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RECORD DRAWING
DATE: 2/17/97

SCANNED BY
BY IASON

BOHANNAN-HUSTON, INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ELLISON DRIVE
TRAFFIC CONTROL - GENERAL NOTES

DESIGN REVIEW COMMITTEE: CITY ENGINEER APPROVAL

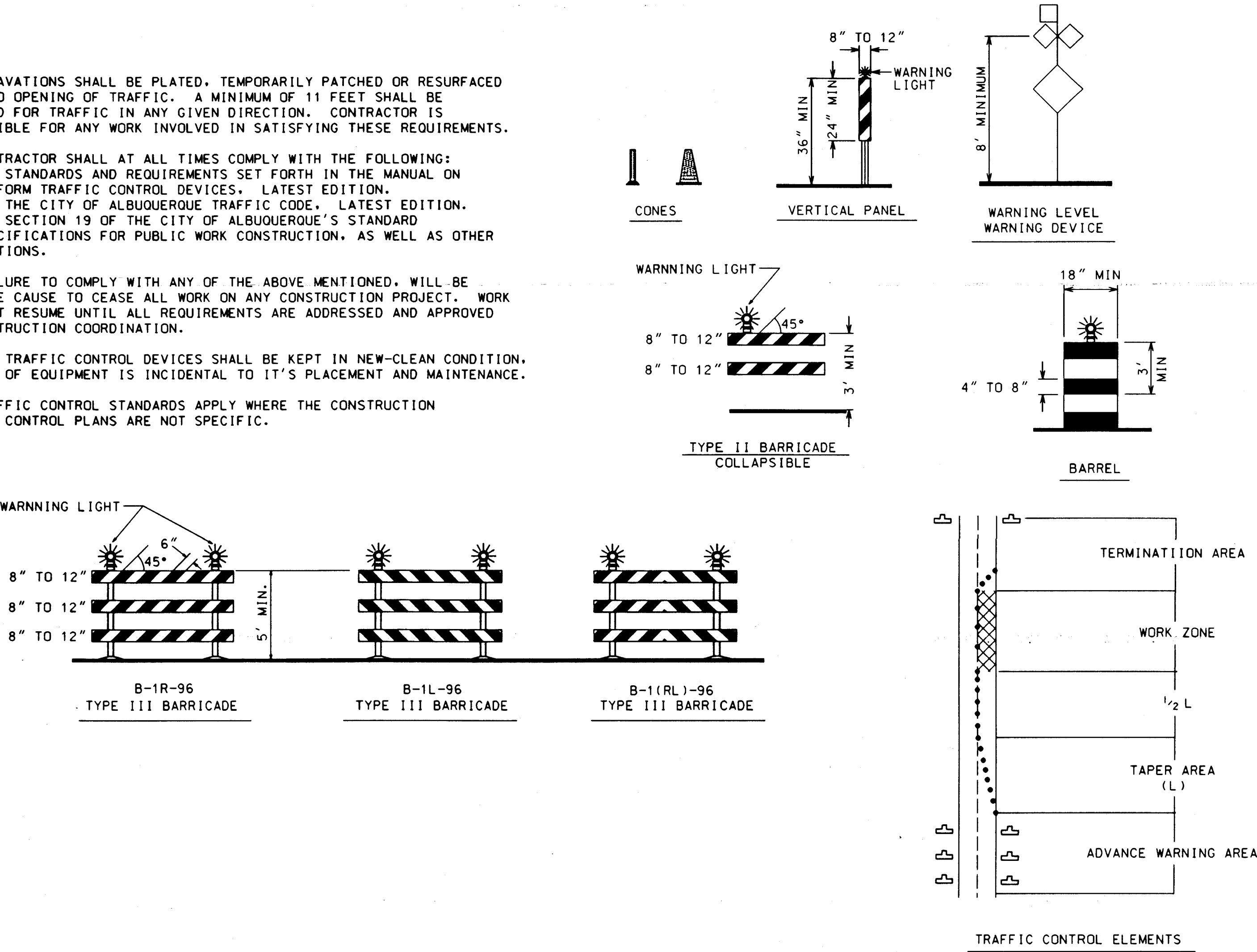
DATE: 3/26/96
DATE: 3/19/96
DATE: 2-96
DATE: 2-96
DATE: 2-96

SHEET 60 OF 72
ZONE MAP NO. 3727.90

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 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 8:30 A.M. OR END WORK AFTER 4:00 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 TRAVELED 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 WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.



LEGEND

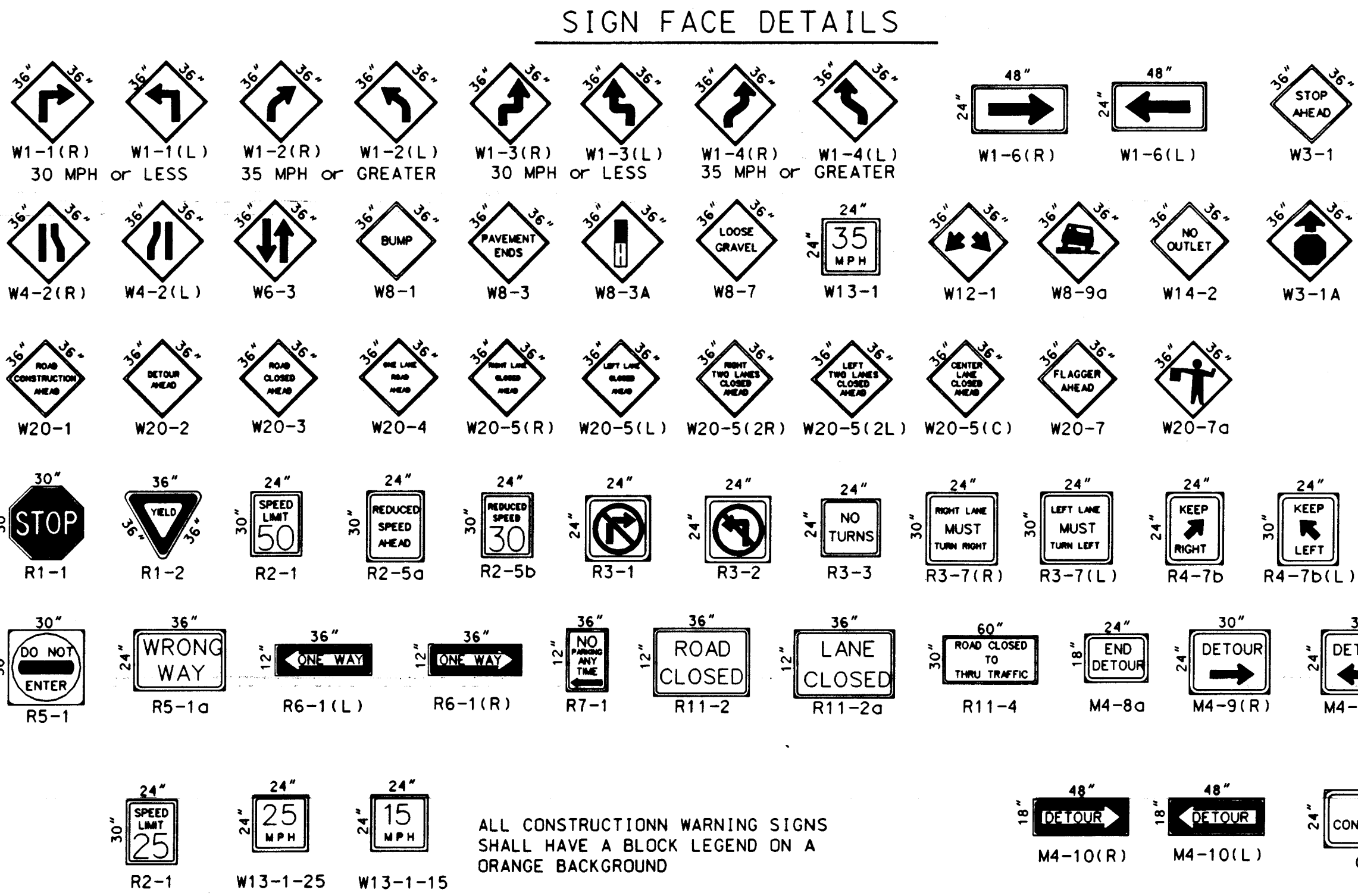
WORK AREA	DATE
BARRICADE - TYPE I, TYPE II, OR BARREL	CONTRACTOR
BARRICADE - TYPE III	DATE
VERTICAL PANEL	DATE
WARNING SIGN	DATE
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET	DATE
FLAGMAN POSITION	DATE
SPACING BETWEEN BARRICADES - A DISTANCE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

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

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

SPEED MILES PER HOUR	MINIMUM DISTANCE 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



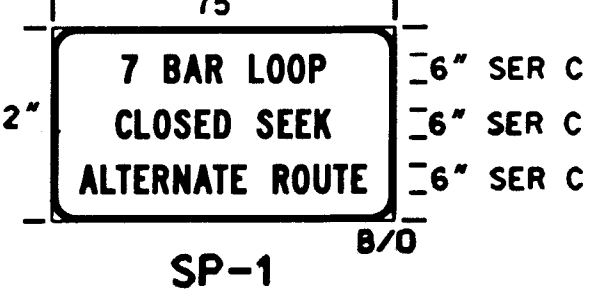
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTER TAPER	1/4 MINIMUM
SHOULDER TAPER	1/4 MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L = W S^2 / 60
40 MPH OR LESS	L = W S^2 / 60
40 MPH OR GREATER	L = W x S

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



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLOCK LEGEND ON A ORANGE BACKGROUND

ALL ADVANCE WARNING SIGNS SHALL BE THIRTY-SIX (36) INCHES BY THIRTY-SIX (36) INCHES. SUPER ENGINEERING GRADE OR GREATER.

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN-HUSTON, INC., WITH INFORMATION PROVIDED BY ALBUQUERQUE UNDERGROUND, INC.

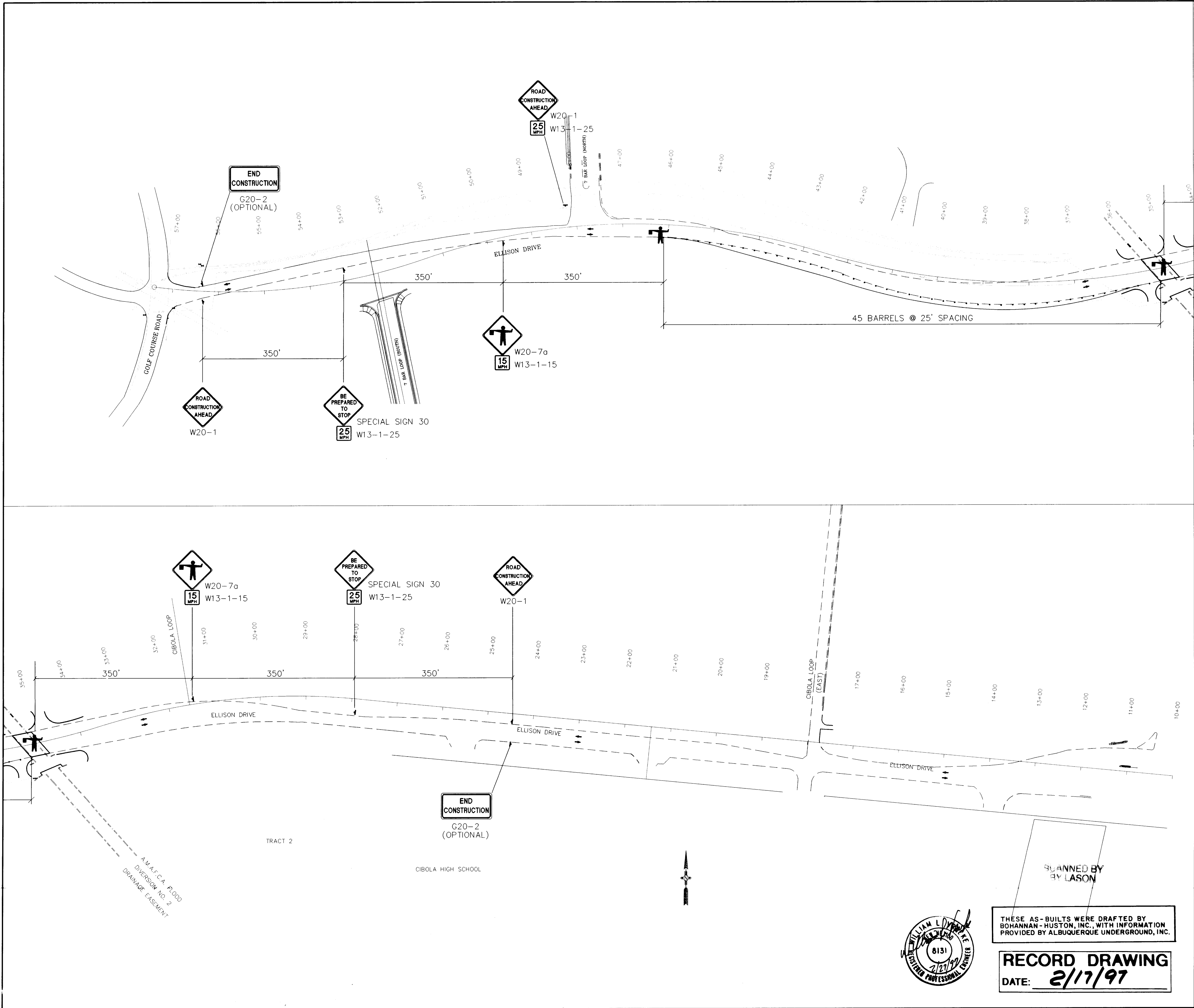
RECORD DRAWING
DATE: 2/17/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.
DATE	DATE	DATE

CITY PROJECT NO. 3727.90
ZONE MAP NO. 61
SHEET 61 OF 72

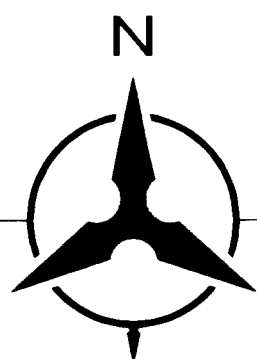


PHASE 1

1. INSTALL TEMPORARY PAVEMENT ALONG THE SOUTH SIDE OF EXISTING ELLISON DRIVE BETWEEN 7 BAR LOOP (NORTH) AND BLACK'S DIVERSION CHANNEL.
2. TRAFFIC SHALL BE REDUCED FROM 30-MPH TO 15-MPH THRU THE CONSTRUCTION ZONE.
3. TRAFFIC SHALL BE MAINTAINED ON EXISTING ELLISON DRIVE WITH ONE LANE OF TRAFFIC IN EACH DIRECTION.

LEGEND

- TRAFFIC FLOW
- BARRICADE - TYPE III
- SIGN
- BARREL
- FLAGGER
- PENNANT FLAGGING
- WORK ZONE
- INSTALL TEMPORARY PAVEMENT
- EXISTING TEMPORARY PAVEMENT FROM PREVIOUS PHASE



0 50 100 200
SCALE: 1" = 100'



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ALBUQUERQUE LAS CRUCES SANTA FE



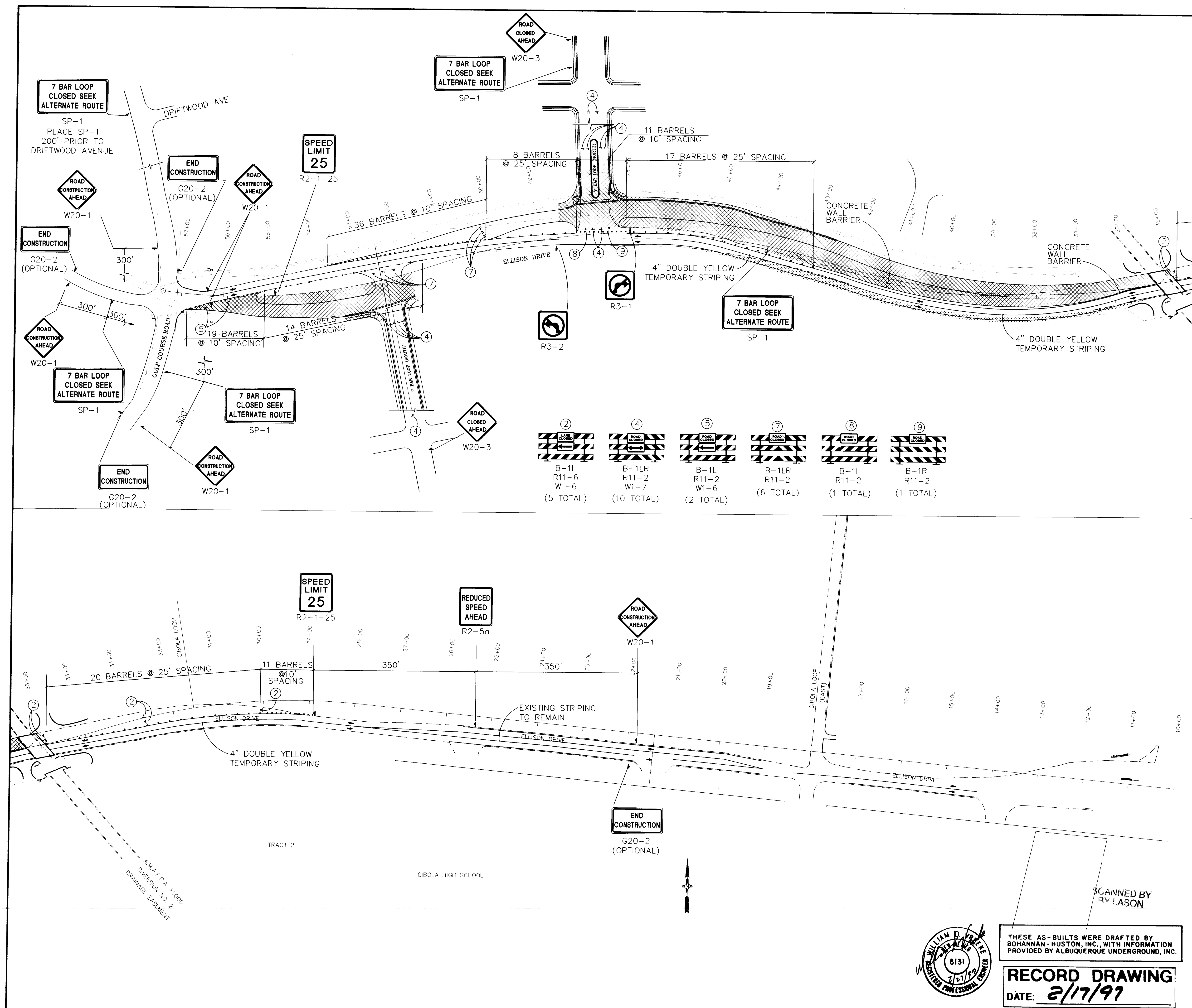
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL
PHASE 1

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
<i>B. F. B.</i> 3/26/96	<i>R. M. B.</i>		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
3727.90	A-13	63	72

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE	
CONTRACTOR	DATE	CONTRACTOR	DATE	BY	DATE	BY	DATE	BY	DATE	NO.	DATE	REMARKS	BY	DATE	DATE
AUT	2/97	AUT	2/97												
INSPECTOR'S	DATE	INSPECTOR'S	DATE												
ACCEPTANCE BY	2/97	ACCEPTANCE BY	2/97												
VERIFICATION BY	2/97	VERIFICATION BY	2/97												
DRAWING	DATE	DRAWING	DATE												
REVISIONS	2/97	REVISIONS	2/97												
MICRO-FILM	DATE	MICRO-FILM	DATE												
INFORMATION		INFORMATION													
RECORDED BY		RECORDED BY													
NO.		NO.													

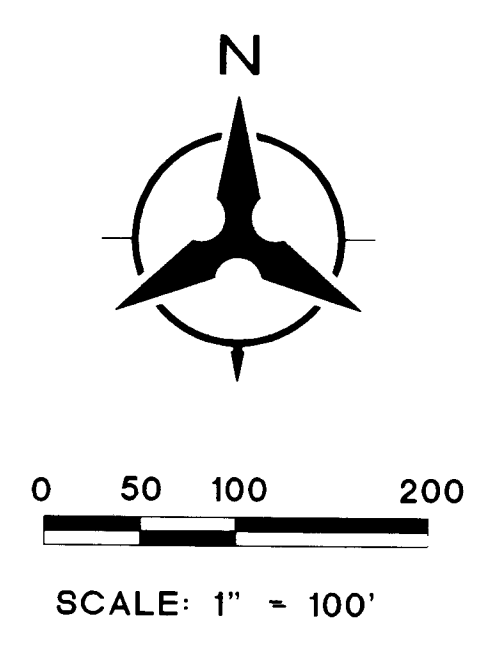
Matthew
3-16-96



- PHASE 2
1. RELOCATE 1200 LF OF 12" PVC WATER LINE.
 2. CONSTRUCT OF 1350 LF OF THE PROPOSED NORTH HALF OF ELLISON DRIVE.
 3. INSTALL 400 LF OF TEMPORARY PAVEMENT BETWEEN 7 BAR LOOP (NORTH) AND THE EXISTING PAVEMENT AT 7 BAR LOOP (SOUTH).
 4. INSTALL TEMPORARY PAVEMENT AT 7 BAR LOOP (SOUTH) ENTRANCE.
 5. CONSTRUCT 500 LF OF THE PROPOSED SOUTH HALF OF ELLISON DRIVE BETWEEN GOLF COURSE ROAD AND 7 BAR LOOP (SOUTH).
 6. TRAFFIC SHALL BE MAINTAINED ON EXISTING ELLISON DRIVE AND TEMPORARY PAVEMENT WITH ONE LANE OF TRAFFIC IN EACH DIRECTION.
 7. THE SPEED LIMIT SHALL BE REDUCED FROM 30-MPH TO 25-MPH THRU THE CONSTRUCTION ZONE.

LEGEND

- TRAFFIC FLOW
- BARRICADE - TYPE III
- SIGN
- BARREL
- FLAGGER
- PENNANT FLAGGING
- WORK ZONE
- INSTALL TEMPORARY PAVEMENT
- EXISTING TEMPORARY PAVEMENT FROM PREVIOUS PHASE



AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES	
CONTRACTOR	AUT	DATE	2/17/97	NO.	BY	DATE	NO.
INSPECTOR	AUT	DATE	2/17/97	NO.	BY	DATE	NO.
REVISIONS	BY	DATE	2/17/97	NO.	BY	DATE	NO.
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REVISIONS	BY	DATE	2/17/97	NO.	BY	DATE	NO.
REVISIONS	BY	DATE	2/17/97	NO.	BY	DATE	NO.

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

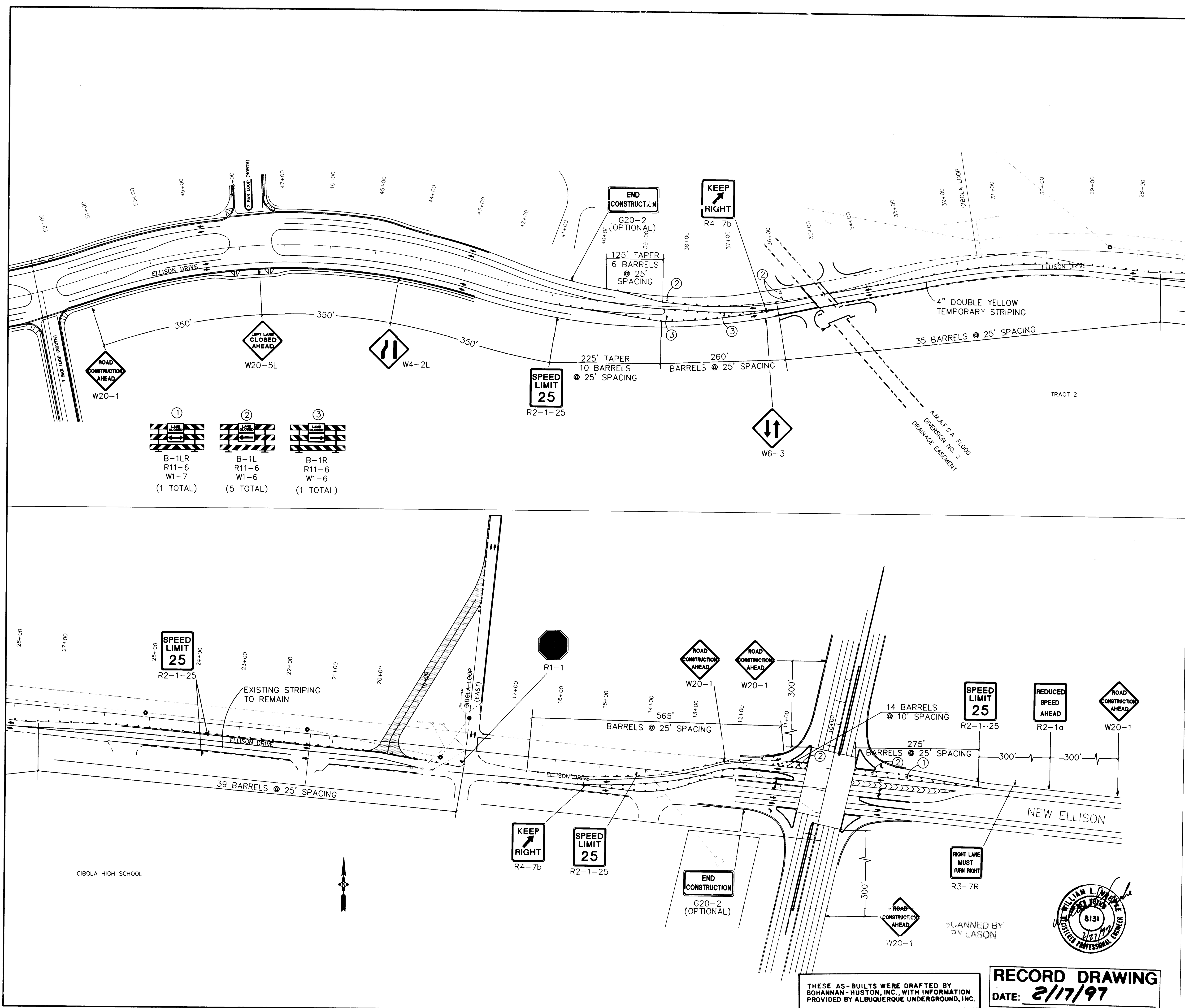
TITLE: TRAFFIC CONTROL PHASE 2

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
<i>S.G.B.</i> 3/26/96	<i>Richard M. [Signature]</i> 3/19/96		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
3727.90	A-13	64	72



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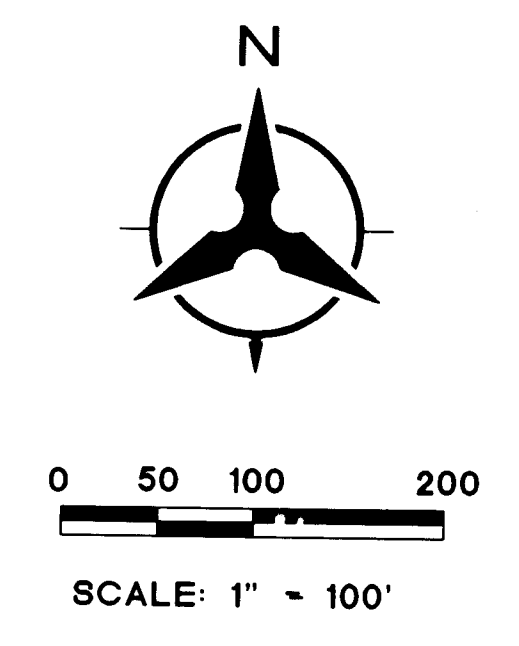
RECORD DRAWING
DATE: 2/17/97



- PHASE 5A
1. CONSTRUCT TEMPORARY PAVEMENT FOR CIBOLA LOOP DETOUR.
 2. THE SPEED LIMIT SHALL BE REDUCED FROM 30-MPH TO 25-MPH THRU THE CONSTRUCTION ZONE.
 3. MAINTAIN ACCESS TO ALL BUSINESS AND RESIDENCES AT ALL TIMES.

LEGEND

- TRAFFIC FLOW
- BARRICADE - TYPE III
- SIGN
- BARREL
- FLAGGER
- PENNANT FLAGGING
- WORK ZONE
- INSTALL TEMPORARY PAVEMENT
- EXISTING TEMPORARY PAVEMENT FROM PREVIOUS PHASE



AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES	
CONTRACTOR	DATE	BY	DATE	NO.	DATE	BY	DATE
BY: <i>ACI</i>	DATE: <i>2/97</i>	BY: <i>ACI</i>	DATE: <i>2/97</i>	BY: <i>ACI</i>	DATE: <i>2/97</i>	BY: <i>ACI</i>	DATE: <i>2/97</i>
FIELD CHECKED BY: <i>BHI</i>	DATE: <i>2/97</i>	FIELD CHECKED BY: <i>BHI</i>	DATE: <i>2/97</i>	FIELD CHECKED BY: <i>BHI</i>	DATE: <i>2/97</i>	FIELD CHECKED BY: <i>BHI</i>	DATE: <i>2/97</i>
CORRECTED BY: <i>BHI</i>	DATE: <i>2/97</i>	CORRECTED BY: <i>BHI</i>	DATE: <i>2/97</i>	CORRECTED BY: <i>BHI</i>	DATE: <i>2/97</i>	CORRECTED BY: <i>BHI</i>	DATE: <i>2/97</i>
MICRO-FILM INFORMATION	NO.	MICRO-FILM INFORMATION	NO.	MICRO-FILM INFORMATION	NO.	MICRO-FILM INFORMATION	NO.
RECORDED BY:	DATE:	RECORDED BY:	DATE:	RECORDED BY:	DATE:	RECORDED BY:	DATE:

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TRAFFIC CONTROL PHASE 5A**

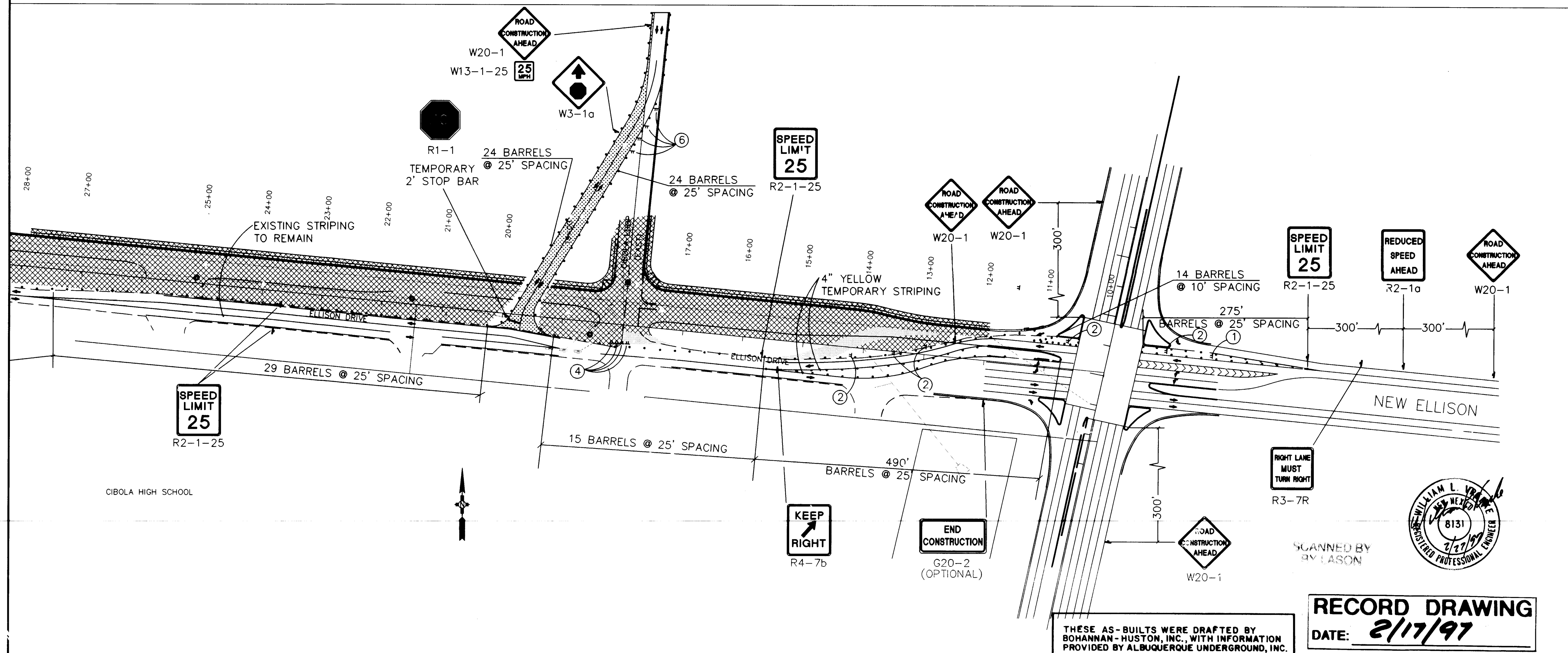
DESIGN REVIEW COMMITTEE: *B.G.P. 3/26/96* *David Bluff 3/15/96*

LAST DESIGN UPDATE: *3/15/96*

CITY PROJECT NO. **3727.90** ZONE MAP NO. **A-13** SHEET **67** OF **72**

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RECORD DRAWING
DATE: **2/17/97**



DRAWER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE			
NO.	DATE		BY			CONTRACTOR <i>AWI</i>	
						DATE <i>2/97</i>	
						INSPECTOR'S	
						STAMPED BY <i>AWI</i>	
						DATE <i>2/97</i>	
						FIELD	
						VERIFICATION BY <i>BHI</i>	
						DATE <i>2/97</i>	
						CORRECTED BY <i>BHI</i>	
						DATE <i>2/97</i>	
				MICRO—FILM INFORMATION			
				RECORDED BY			
				DATE			
				NO.			

Supplement

3-16-96

DESIGNED BY: PWC/ARB
DATE 3-96

DRAWN BY: ARB
DATE 3-96

CHECKED BY: AMT
DATE 3-96



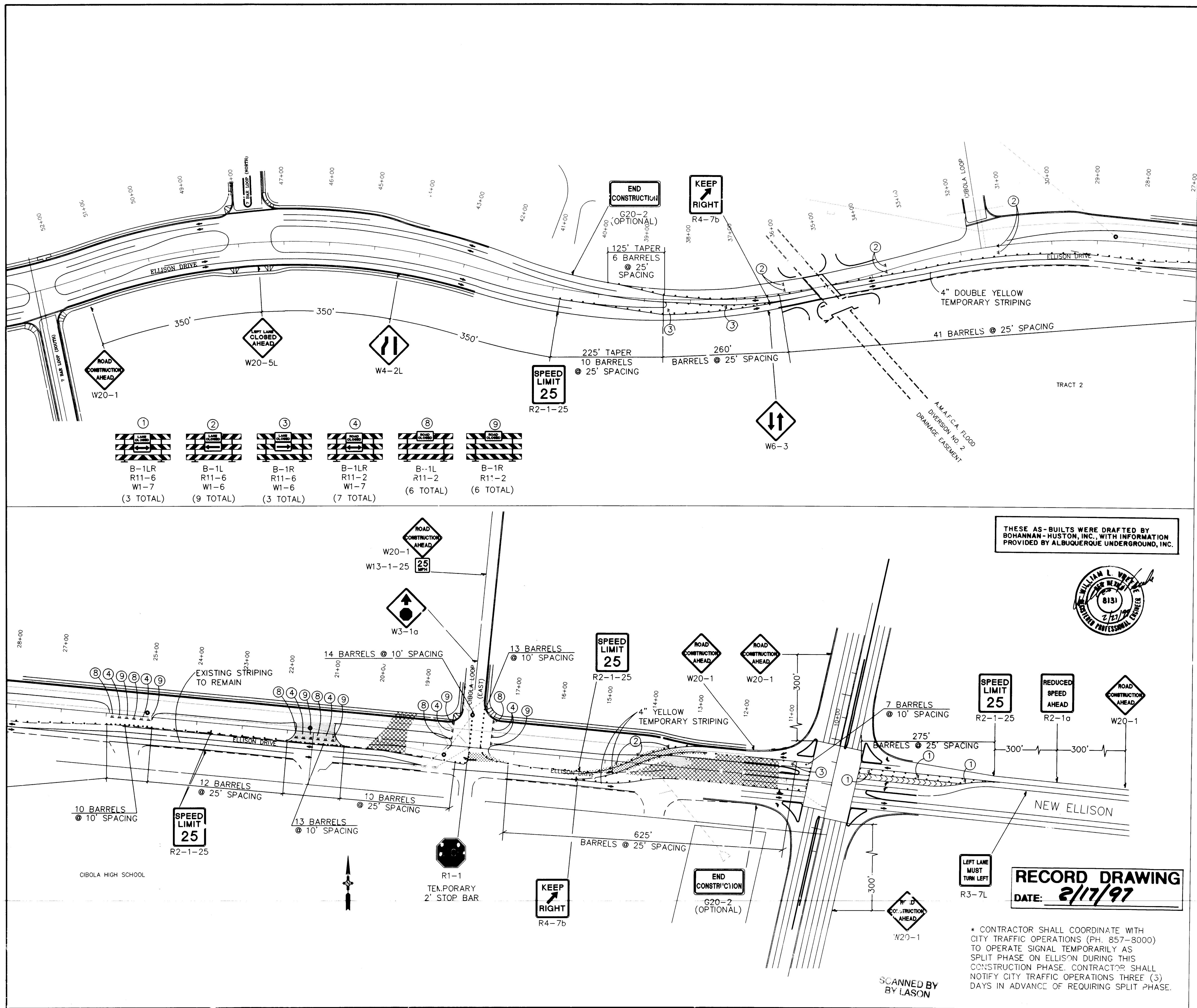
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL
PHASE 5B

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
B.G.S. 3/24/96	<i>[Signature]</i> 3/1/96			
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF	
3727.90	A-13	68	72	

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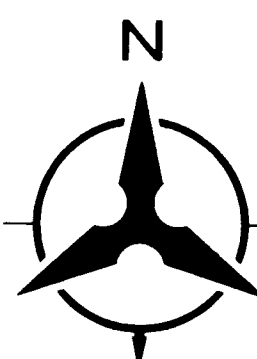


PHASE 6

1. COMPLETE NORTH HALF OF PROPOSED ELLISON DRIVE.
2. CONSTRUCT TEMPORARY PAVEMENT SECTIONS FOR HIGH SCHOOL DRIVEWAY.
3. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

LEGEND

- TRAFFIC FLOW
- BARRICADE - TYPE III
- SIGN
- BARREL
- FLAGGER
- PENNANT FLAGGING
- WORK ZONE
- INSTALL TEMPORARY PAVEMENT
- EXISTING TEMPORARY PAVEMENT FROM PREVIOUS PHASE



0 50 100 200
SCALE: 1" = 100'



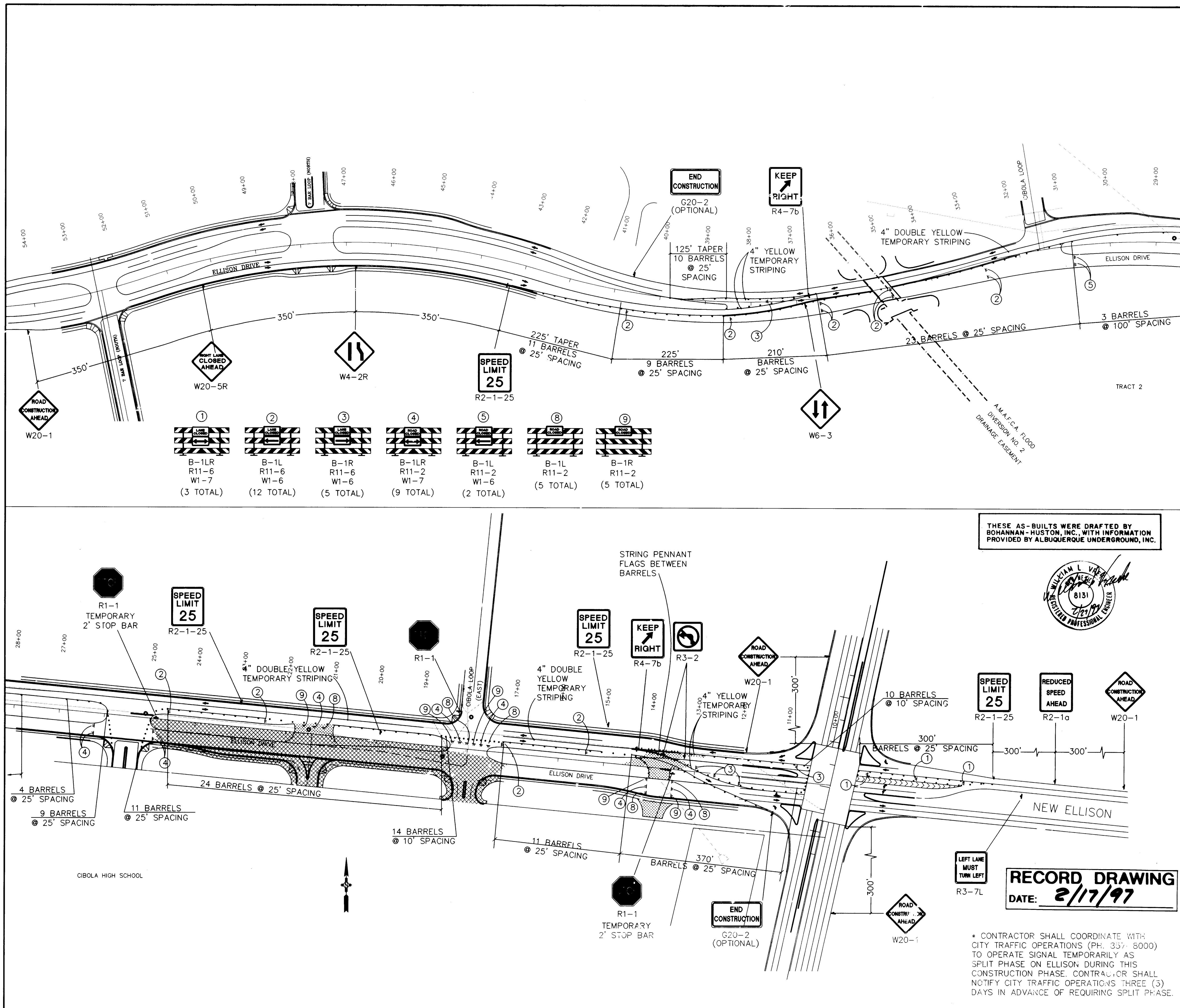
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL
PHASE 6

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
<i>P. G. 3/24/96</i>	<i>Robert M. 3/17/96</i>		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
3727.90	A-13	69	72

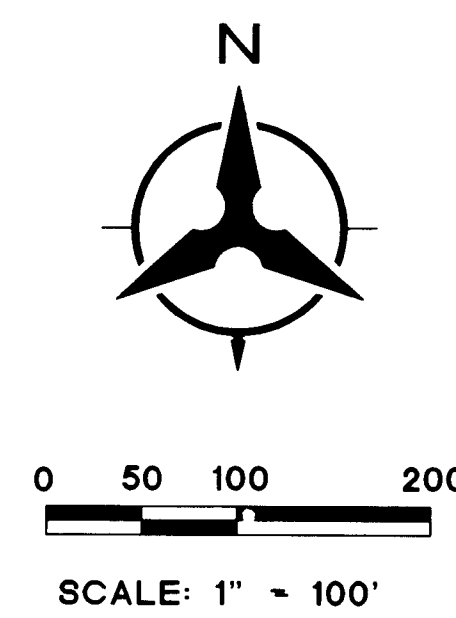


PHASE 8

1. CONSTRUCT LAST TWO SECTIONS OF ELLISON DRIVE IN FRONT OF CIBOLA HIGH SCHOOL. ONE ACCESS SHALL BE MAINTAINED TO EACH PARKING LOT AT ALL TIMES.
2. SPEEDS SHALL BE REDUCED THRU THE CONSTRUCTION ZONE FROM 30-MPH TO 25-MPH.

LEGEND

- TRAFFIC FLOW
- BARRICADE - TYPE III
- SIGN
- BARREL
- FLAGGER
- PENNANT FLAGGING
- WORK ZONE
- INSTALL TEMPORARY PAVEMENT
- EXISTING TEMPORARY PAVEMENT FROM PREVIOUS PHASE



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RECORD DRAWING
DATE: **2/17/97**

* CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC OPERATIONS (PH. 357-5000) TO OPERATE SIGNAL TEMPORARILY AS SPLIT PHASE ON ELLISON DURING THIS CONSTRUCTION PHASE. CONTRACTOR SHALL NOTIFY CITY TRAFFIC OPERATIONS THREE (3) DAYS IN ADVANCE OF REQUIRING SPLIT PHASE.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
BOHANNAN-HUSTON	2/97						
DESIGNED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
BOHANNAN-HUSTON	2/97						
CHECKED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
BOHANNAN-HUSTON	2/97						
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
BOHANNAN-HUSTON	2/97						

3-16-96

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TRAFFIC CONTROL PHASE 8**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
B.G. 3/26/96	Randall 3/19/96		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
3727.90	A-13	71	72

