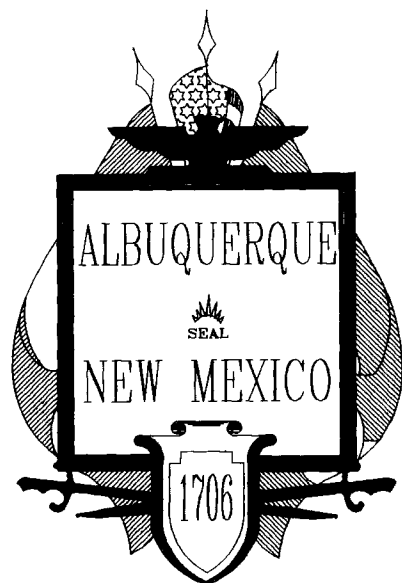


FINAL DESIGN PLANS
FOR
CITY OF ALBUQUERQUE



SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS

GENERAL NOTES

- 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, UPDATES 1, 2 AND 3.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT ONE CALL SYSTEM, INC., 260-1990, 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.
- 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.
- 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.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.
- 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.
- 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.
- 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.
- 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.
- 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 THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- THE CONTRACTOR WILL BE REQUIRED TO CONFINE 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.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH CITY OF ALBUQUERQUE A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO IMPLEMENTING THE PROPOSED WATER VALVE SHUT-OFF AND PRIOR TO INITIATING ANY WORK AFFECTING ANY EXISTING PUBLIC UTILITY.
- 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.
- 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 (768-2531) PRIOR TO OCCUPYING AN INTERSECTION.
- THE CONTRACTOR SHALL PLACE THE PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE DRAWING.
- 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.

- 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.
- 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.
- ALL CONFLICTING EXISTING STRIPING SHALL BE REMOVED BY EITHER GRINDING OR WITH APPROVED CHEMICAL PROCEDURES.
- ALL LANDSCAPING WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS, FINAL DRAFT REVISED DECEMBER, 1992.

- [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

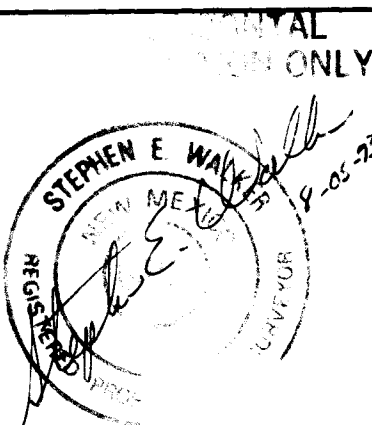
CL - CENTERLINE
COA - CITY OF ALBUQUERQUE
CONC - CONCRETE
DC - DEGREE OF CURVATURE
DIA - DIAMETER
DIP - DUCTILE IRON PIPE
ELEV - ELEVATION
EXIST - EXISTING
F-F - FACE TO FACE
FH - FIRE HYDRANT

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
SAS - SANITARY SEWER
SD - STORM DRAIN
STA - STATION
T - TANGENT
TC - TOP OF CURB
TP - TOP OF PIPE
VC - VERTICAL CURVE

VPC - VERTICAL POINT OF CURVATURE
VPI - VERTICAL POINT OF INTERSECTION
VPRC - VERTICAL POINT OF REVERSE CURVE
VPT - VERTICAL POINT OF TANGENCY
W OR WL - WATERLINE



INDEX OF SHEETS

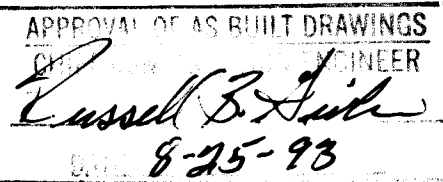
1	TITLE SHEET
2	PROJECT OVERVIEW
3	TYPICAL ROAD SECTIONS
4	PAVEMENT SECTION AND DETAILS
5-8	WYOMING BOULEVARD - ROADWAY IMPROVEMENTS
9-11	ACADEMY BOULEVARD - ROADWAY IMPROVEMENTS
12	WYOMING BLVD/ACADEMY BLVD - INTERSECTION GEOMETRY PLAN
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18	LANDSCAPING - GENERAL NOTES
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LEGEND

DESCRIPTION	NEW	EXISTING
CONTOURS	5094	5094
SPOT ELEVATIONS	5088	5088
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
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
DETAIL REFERENCE		
KEYED NOTES		
C.O.A. DETAIL REFERENCE	STD. DWG. 2101	
CURVE NUMBER	2	
POINT NUMBER	1	

STREET CONSTRUCTION NOTES

- PERMANENT STANDARD CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWG. 2415.
- PERMANENT MEDIAN CURB AND GUTTER SHALL BE NON-MOUNTABLE TYPE IN ACCORDANCE WITH C.O.A. STD. DWG. 2415.
- TEMPORARY MEDIAN CURB SHALL BE EXTRUDED CONCRETE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWG. 2415 FOR PINNED CURB TYPE I.
- TEMPORARY OUTSIDE EDGE OF DRIVING LANE CURB SHALL BE EXTRUDED CONCRETE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STD. DWG. 2415 FOR PINNED CURB TYPE II.
- ALL MEDIAN NOSES SHALL HAVE PERMANENT MEDIAN CURB AND GUTTER A MINIMUM DISTANCE OF 10 FEET BACK FROM NOSE MEASURED ALONG CENTERLINE.
- CONCRETE MEDIAN PAVING SHALL BE CONSTRUCTED ON ALL RAISED MEDIANS WHERE PERMANENT CURB SPACING IS LESS THAN 4 FEET BACK TO BACK. CONCRETE MEDIAN PAVING SHALL ALSO BE CONSTRUCTED AT ALL MEDIAN NOSES A DISTANCE OF 10 FEET BACK FROM MEDIAN NOSE REGARDLESS OF MEDIAN WIDTH. CONCRETE MEDIAN PAVING SHALL BE 4" THICK PORTLAND CEMENT CONCRETE 3000 PSI 28 DAY STRENGTH, TEXTURED RUNNING BOND PATTERN, COLOR BAJA RED IN ACCORDANCE WITH C.O.A. STD. DWG. 2408.
- ALL CURB RETURNS AND RIGHT TURN CHANNELIZATION ISLANDS SHALL BE CONSTRUCTED TO INCLUDE WHEELCHAIR RAMPS IN ACCORDANCE WITH C.O.A. STD. DWGS. 2440 AND 2441.
- 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.



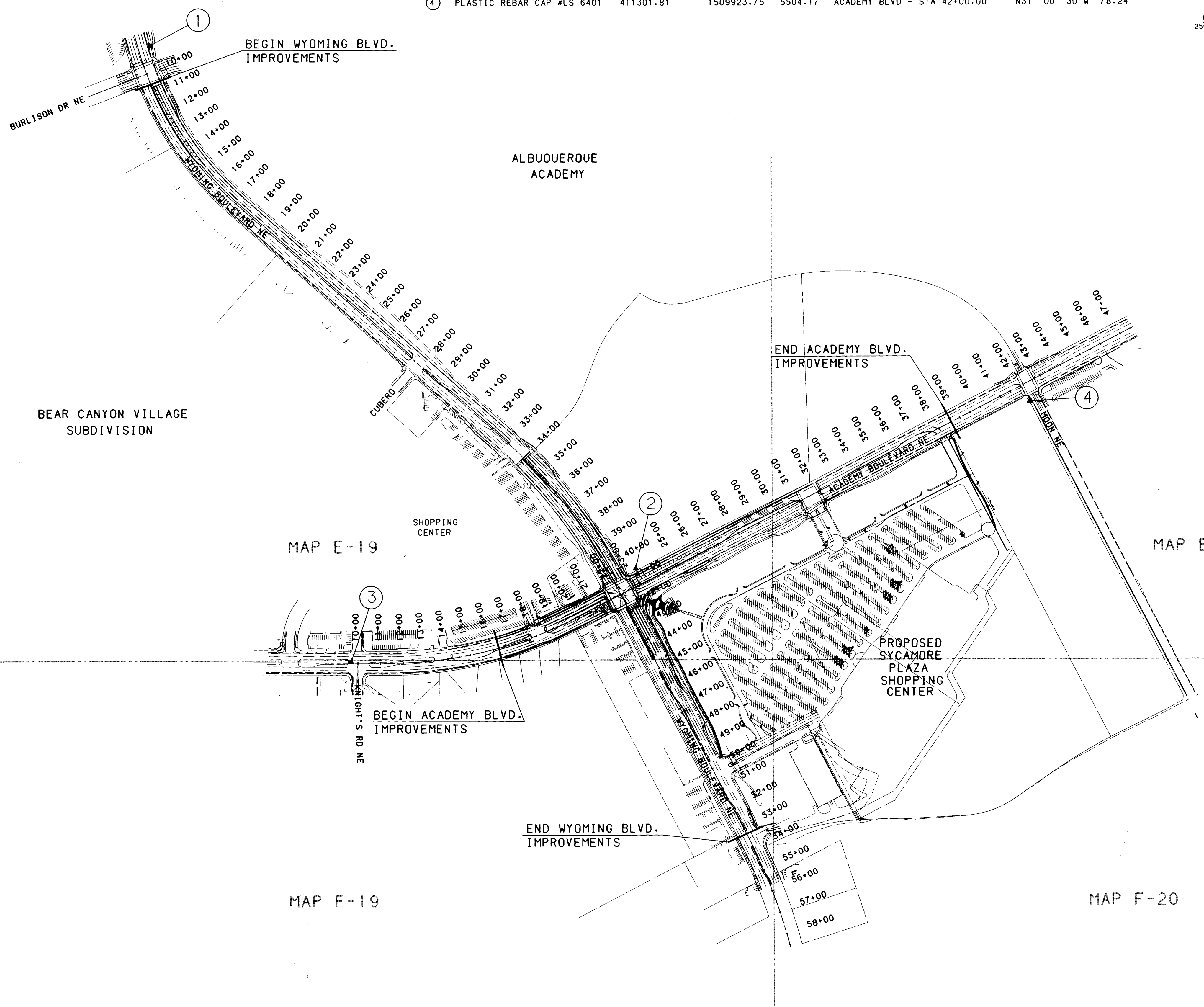
26 4555.91 01 193

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

	7500 JEFFERSON NE, COURTYARD 1 ALBUQUERQUE, NM 87109 (505) 823-1000	APPROVED FOR CONSTRUCTION
	SUBMITTED BY: _____ DATE: _____	CITY ENGINEER: _____ DATE: _____
	ARCHITECT-ENGINEERING-ORGANIZATION	
PROJECT NUMBER	4555.91	SHEET 1 OF 6867

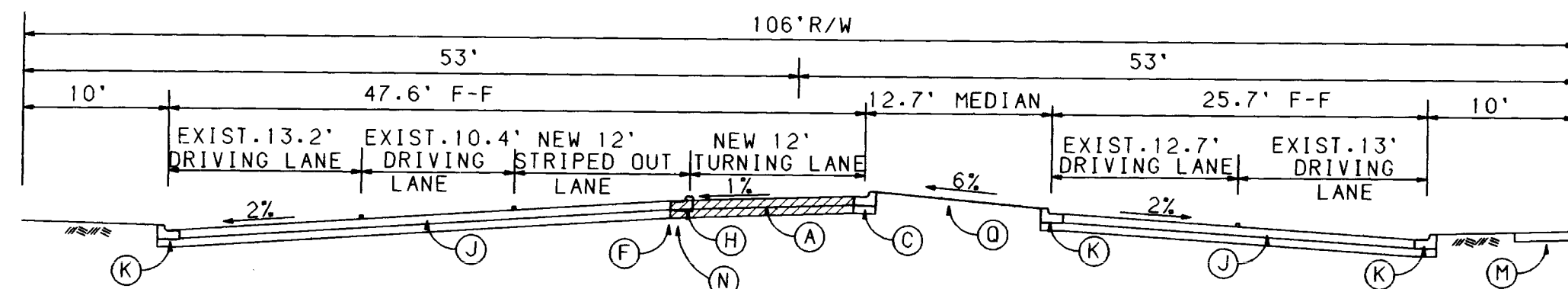
POINT NO.	DESC	CONTROL X	COORDINATES Y	ELEVATION	ALIGNMENT AND STATION	BEARING AND DISTANCE FROM CONTROL TO STATION
①	ASC BRASS CAP #6.E19A	407432.63	1511501.63	5406.35	WYOMING BLVD - STA 10+00.00	S05° 56' 16"W 124.63'
②	ALUMINUM REBAR CAP #BH 46	409565.89	1509191.00	5445.17	WYOMING BLVD - STA 40+00.00	N88° 08' 22"W 127.29'
③	CONC NAIL	408312.50	1508780.88	5405.13	ACADEMY BLVD - STA 10+00.00	S81° 12' 48"E 29.19'
④	PLASTIC REBAR CAP #LS 6401	411301.81	1509923.75	5504.17	ACADEMY BLVD - STA 42+00.00	N31° 00' 30"W 78.24'



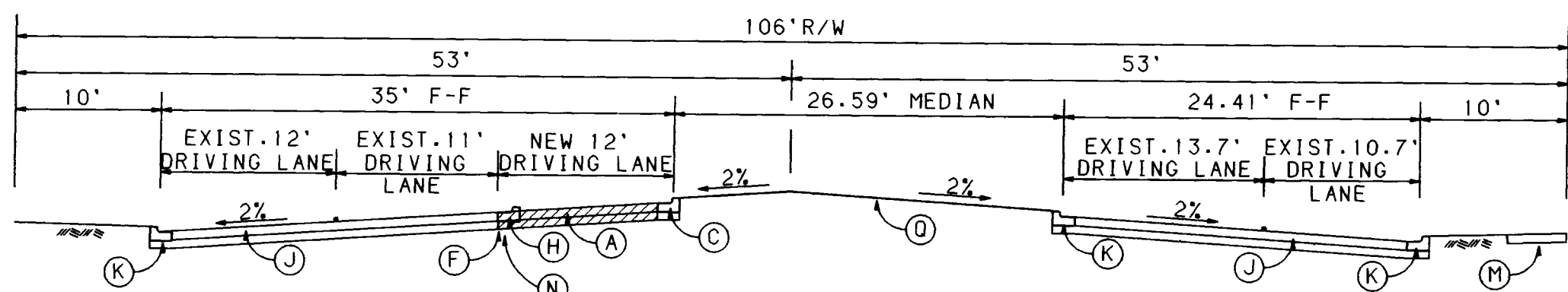
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	<i>J. J. Seely</i>	2-17-93	WATER	<i>N/A</i>	2-17-93
TRANSPORTATION	<i>N/A</i>	2-17-93	WASTE WATER	<i>N/A</i>	2-17-93
HYDROLOGY	<i>N/A</i>	2-17-93	TRAFFIC OPER		

DRAWING NO.	4555.91	MAP NO.	SHEET 2	OF 67
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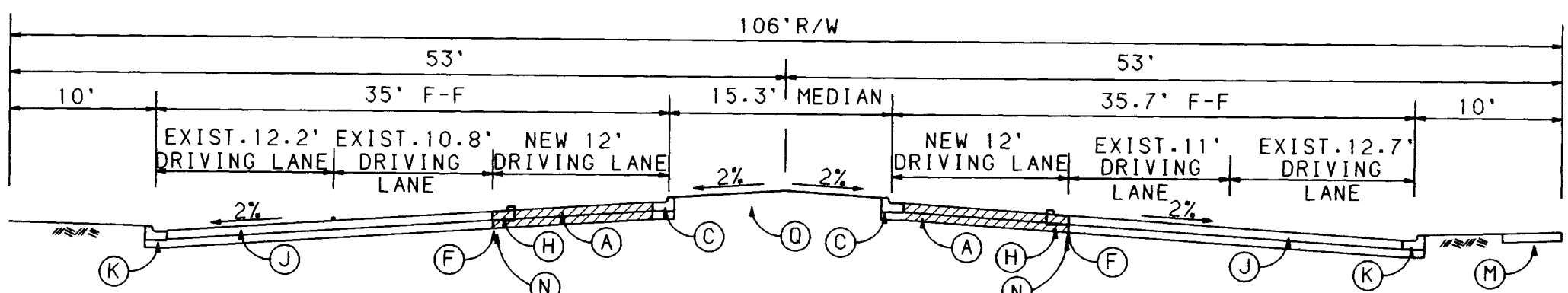
SHEET	OF
2	67



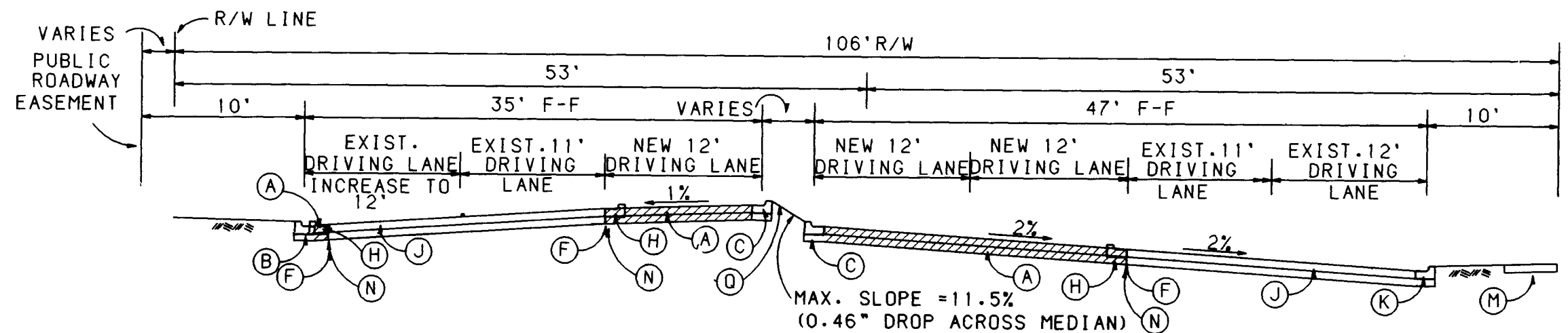
WYOMING BLVD - STA.10+54.35 TO STA.14+08.45
NO SCALE



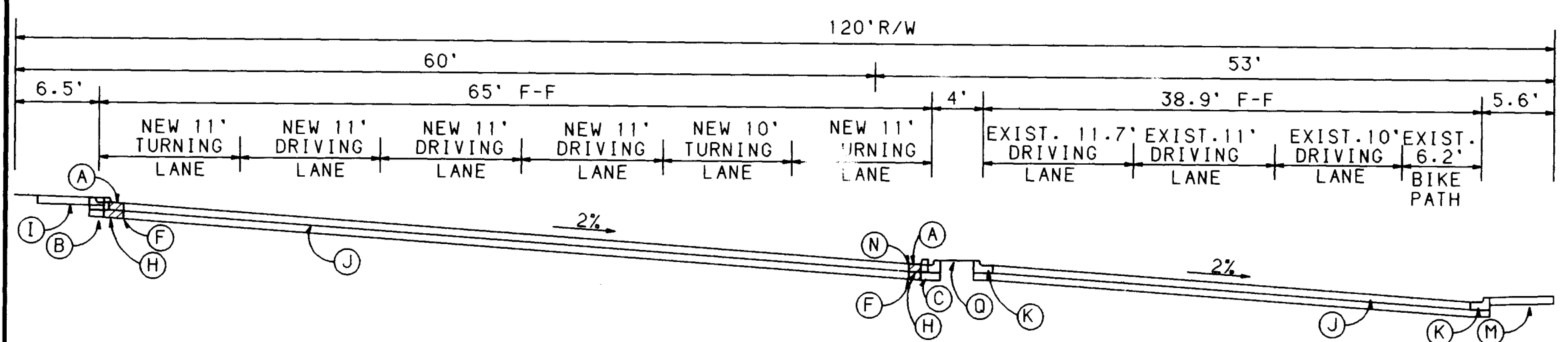
WYOMING BLVD - STA.14+92.97 TO STA.27+30.28
NO SCALE



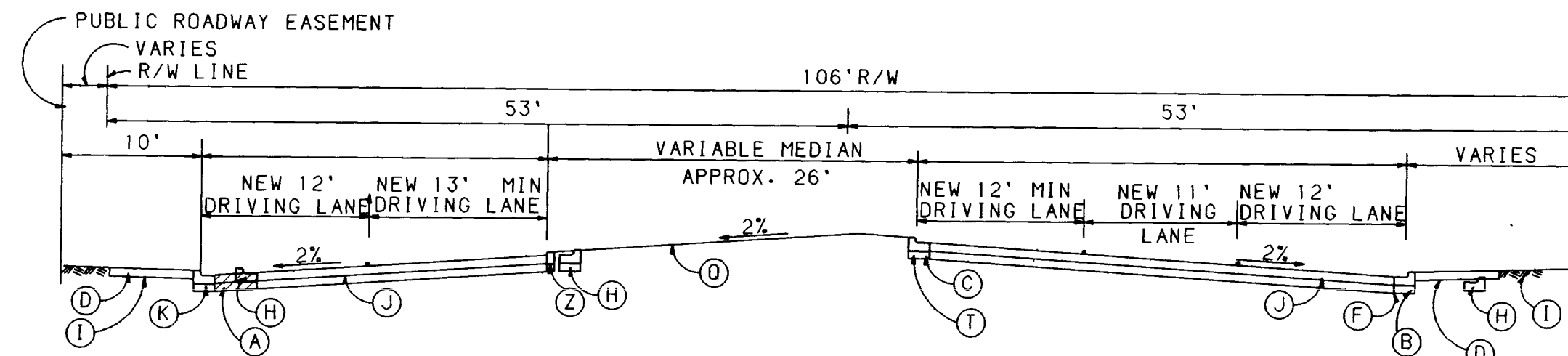
WYOMING BLVD - STA.28+07.64 TO STA.35+89.67
NO SCALE



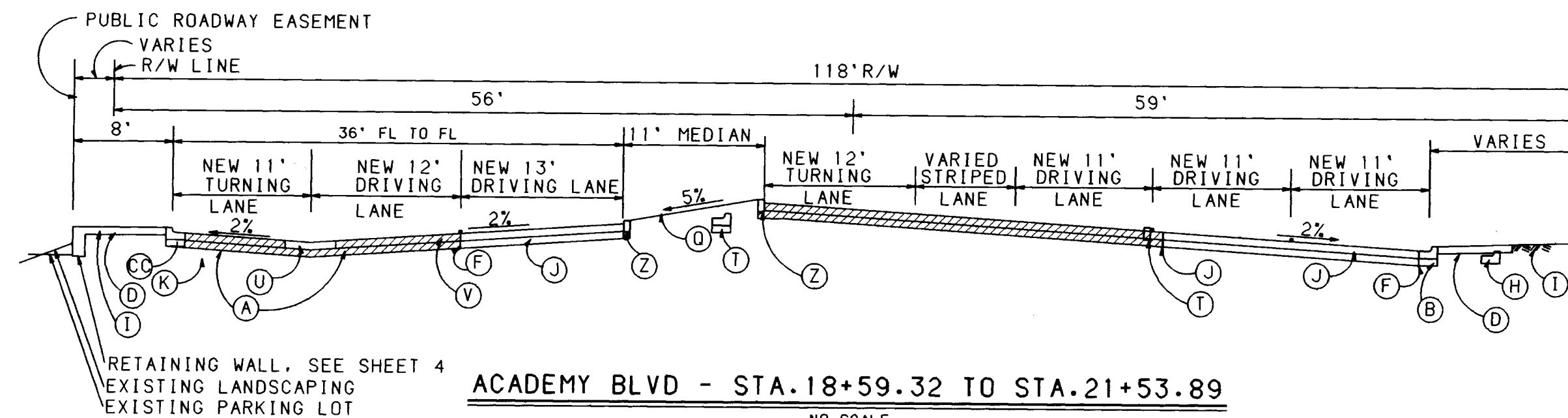
WYOMING BLVD - STA.36+73.97 TO STA.40+53.11
NO SCALE



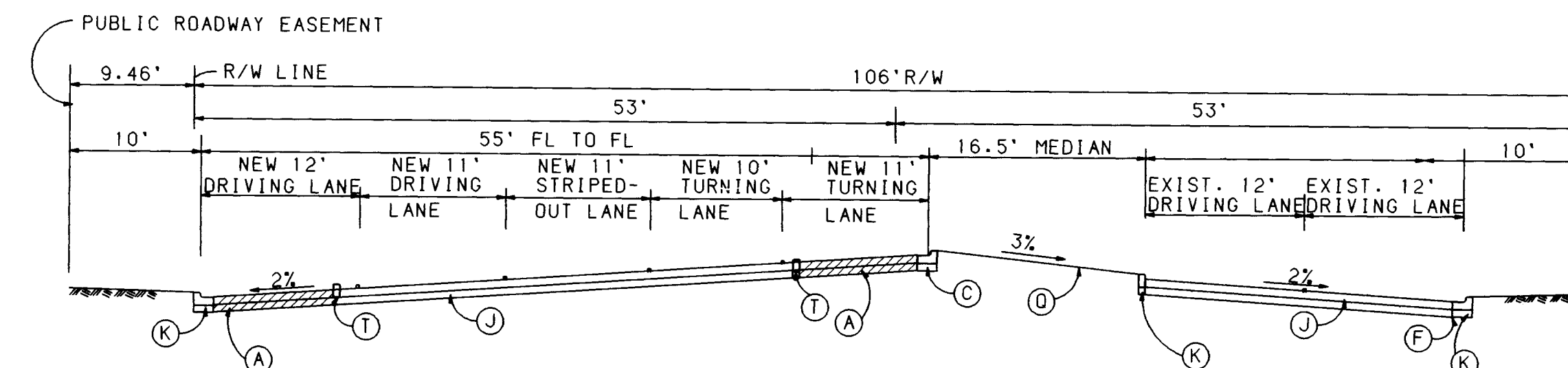
WYOMING BLVD - STA.41+96.73 TO STA.44+76.53
NO SCALE



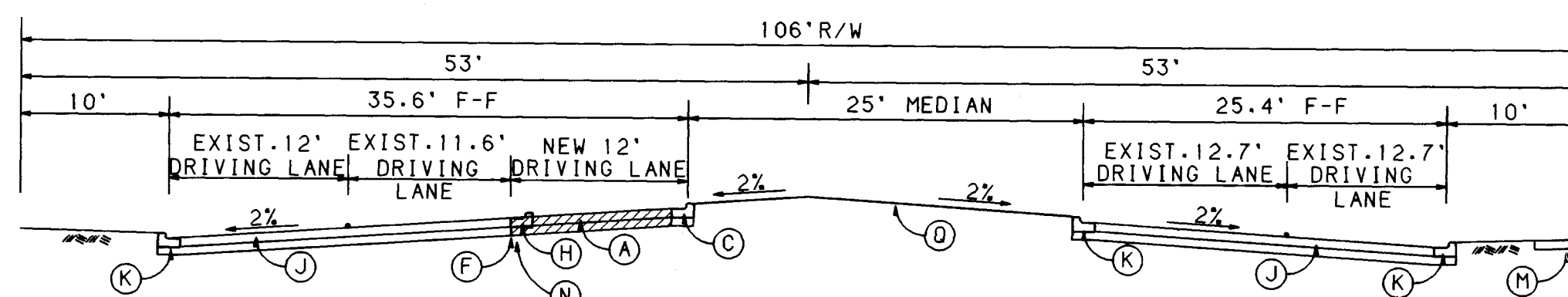
ACADEMY BLVD - STA.16+49.19 TO STA.17+65.87
NO SCALE



ACADEMY BLVD - STA.18+59.32 TO STA.21+53.89
NO SCALE



ACADEMY BLVD - STA.22+85.85 TO STA.26+87.74
NO SCALE



ACADEMY BLVD - STA.33+48.12 TO STA.36+45.95
NO SCALE

KEYED NOTES

- (A) BUILD NEW ARTERIAL PAVEMENT. SEE SHEET 4.
- (B) BUILD NEW CONCRETE STANDARD CURB AND GUTTER PER COA SD 2415.
- (C) BUILD NEW CONCRETE MEDIAN CURB PER COA SD 2415. SEE SHEET 4.
- (D) BUILD NEW CONCRETE SIDEWALK PER COA SD 2430.
- (E) BUILD NEW WHEELCHAIR RAMP.
- (F) SAWCUT EXISTING PAVEMENT. SEE DETAIL, SHEET 4.
- (G) REMOVE EXISTING PAVEMENT, W/ OR W/O SAWCUT.
- (H) REMOVE EXISTING CURB.
- (I) REMOVE EXISTING SIDEWALK.
- (J) EXISTING PAVEMENT TO REMAIN.
- (K) EXISTING CURB TO REMAIN.
- (L) EXISTING LANDSCAPING TO REMAIN.
- (M) EXISTING SIDEWALK TO REMAIN.
- (N) MATCH NEW PAVEMENT TO EXISTING PAVEMENT.
- (O) BUILD CONCRETE TEXTURED PAVEMENT 4" COLORED. PER COA SD 2408. SEE LANDSCAPING PLANS.
- (P) BUILD 5/8" SEAL COAT.
- (Q) BUILD NEW LANDSCAPING OR GRADED EARTH SLOPE. SEE LANDSCAPING PLANS.
- (R) ADJUST VALVE TO GRADE PER COA SD 2460.
- (S) ADJUST MANHOLE TO GRADE PER COA SD 2460.
- (T) REMOVE EXISTING EXTRUDED ASPHALT MEDIAN CURB.
- (U) BUILD NEW CONCRETE VALLEY GUTTER PER COA SD 2420.
- (V) n/a
- (W) n/a
- (X) n/a
- (Y) n/a
- (Z) BUILD EXTRUDED ASPHALT CURB.
- (AA) n/a
- (BB) n/a
- (CC) BUILD DEPRESSED CUTTER FOR STANDARD CURB & GUTTER PER COA SD 2415 & SHEET 4.
- (DD) n/a
- (EE) n/a

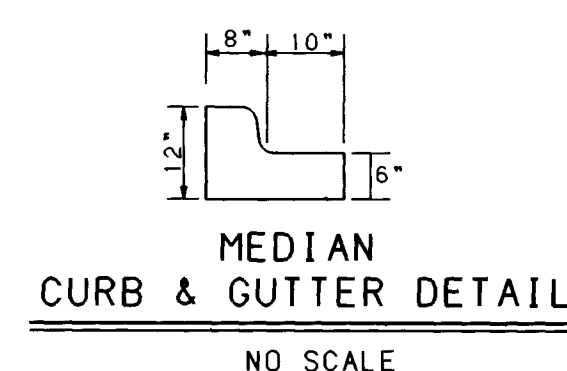
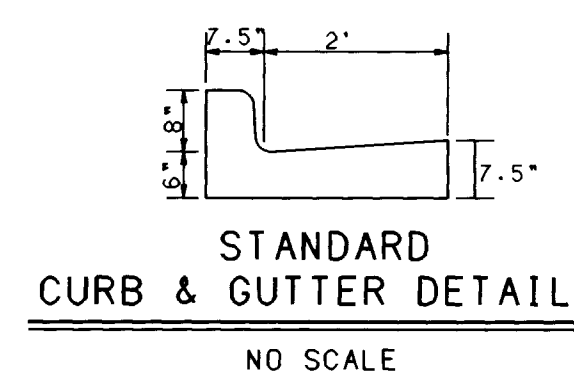
LEGEND

- NEW PAVEMENT
- SAWCUT EXIST. PAVEMENT
- TC = TOP OF CURB
- TMC = TOP OF MEDIAN CURB
- TP = TOP OF PAVEMENT

FILE NO. 26 4555.91 19103913

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING					
SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS TYPICAL ROAD SECTION PAVING DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAFFIC		
4555.91			MAP NO. 0000		
SHEET 3			OF 67		

SCALE: 1" = 10'
BHI JOB NO. 92248.40



1. The waterproof membrane shall be a 30 mil., PVC liner material.
2. The waterproof membrane shall be adhered to the back of the curb with a layer of asphaltic roofing cement. A continuous 6" band of asphaltic cement shall be applied to the back of the curb as an adhesive material.
3. Existing soils to be re-used shall be free of rubbish, rock, large stones, brush, and sod. If suitable quantities are not available, additional planting soils shall conform to existing site soils. Finish grade shall be 5" below the top of the curb.

CONSTRUCTION NOTES

- A. Existing curb and gutter.
- B. Waterproof membrane. 38"
- C. 6" subgrade compacted to 95%.
- D. Bark mulch.
- E. Existing soil.
- F. Loosen the soil to a depth of 6".

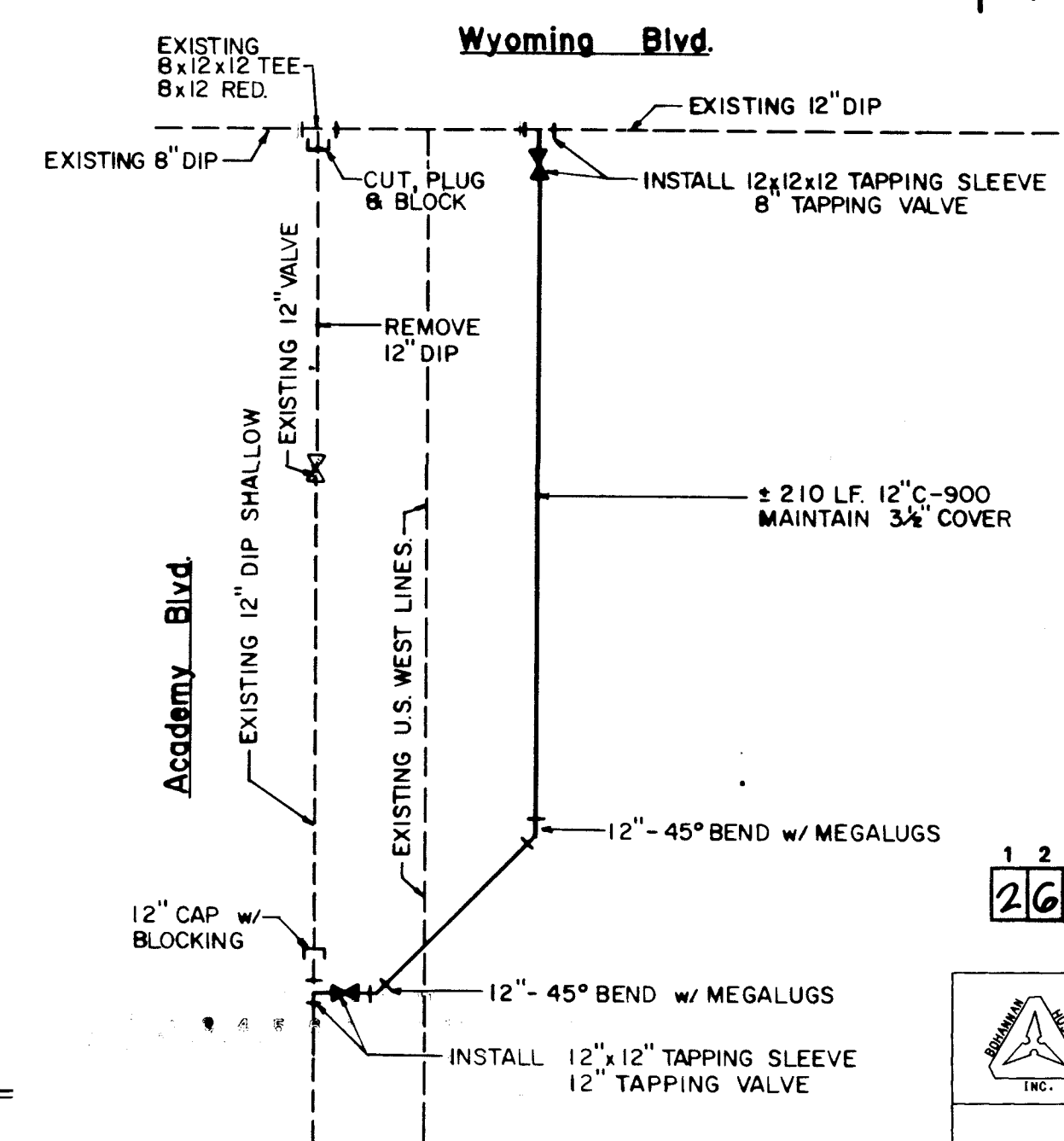
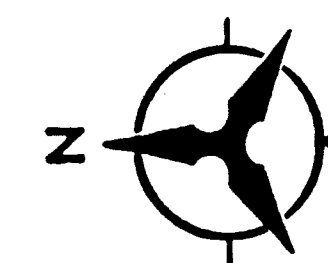


1. CURBS TO BE CONSTRUCTED OF P.C.C.
2. FOR MEDIAN C & G, PROVIDE CONTRACTION JOINTS 6' O.C. MAXIMUM.
3. EDGES NOT SPECIFICALLY DIMENSIONED SHALL BE EDGED WITH A 3/8" EDGING TOOL.
4. REMOVE & REPLACE 12" WIDE STRIP OF PAVEMENT BEYOND LIP OF GUTTER WHEN THE CONSTRUCTION C & G ADJACENT TO EXIST. A.C. PAVEMENT.
5. STD. C & G REQUIRE FULL FORM ON ALL FACES EXCEPT WITH PRIOR APPROVAL OF ENGINEER.

CONSTRUCTION NOTES

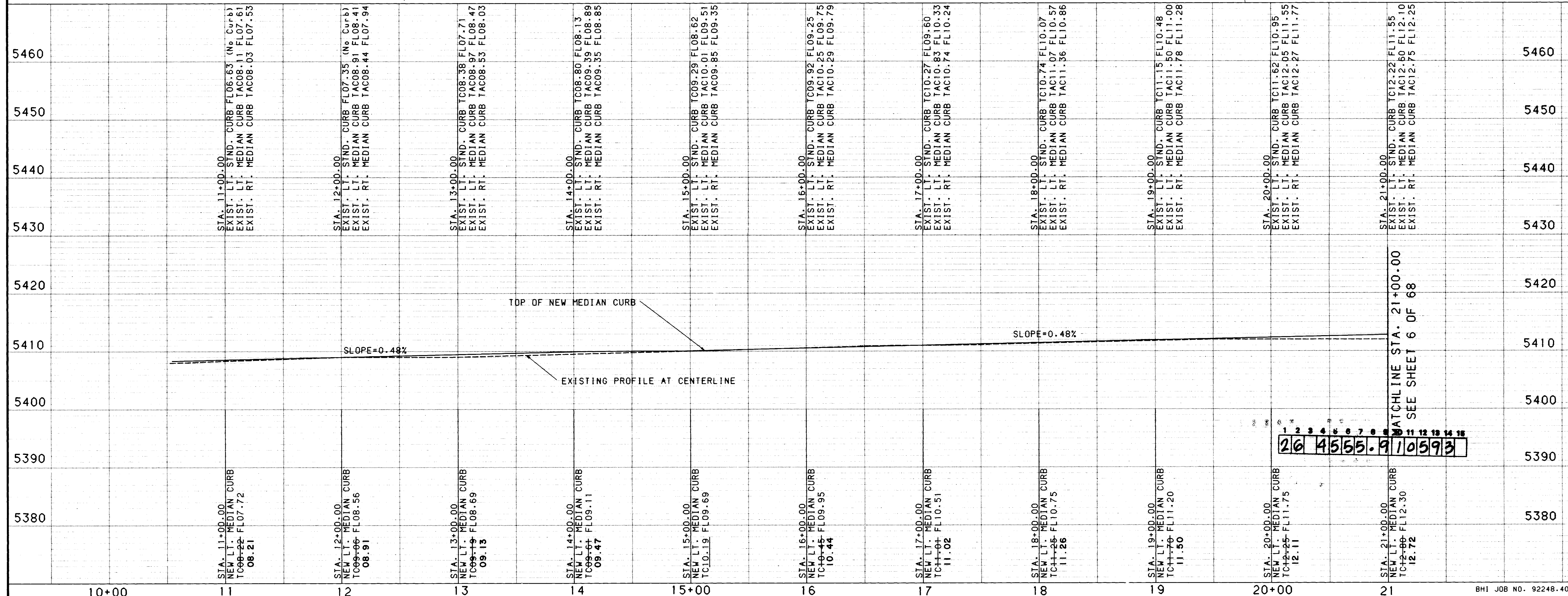
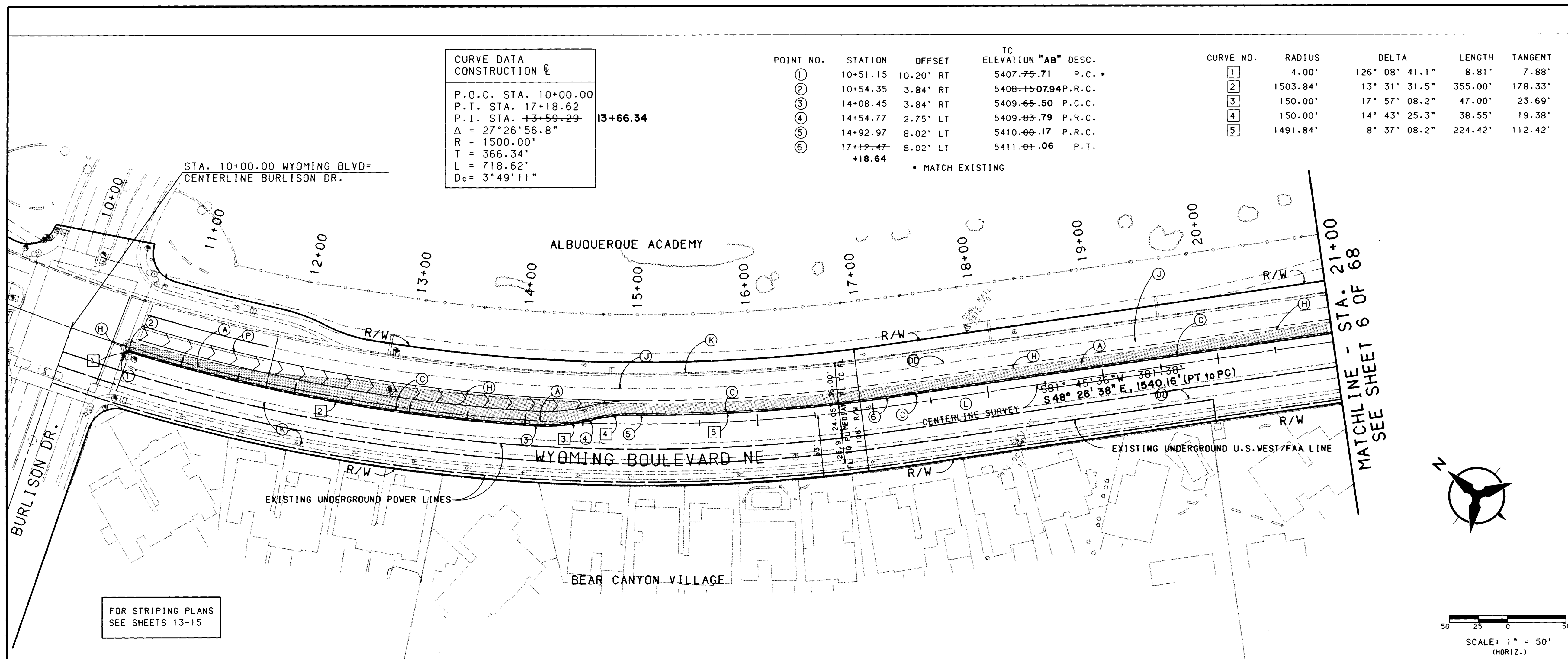
- A. THEORETICAL FACE OF CURB OR FLOWLINE.
- B. 3/4" RADIUS.
- C. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
- D. CURB TO EXTEND DOWN TO SUBBASE OR 6", WHICHEVER IS GREATER.

SPECIAL MOUNTABLE MEDIAN CURB (Wyoming Sta. 45+10.07 to 45+34.06)



WATERLINE RELOCATION FOR
SYCAMORE PLAZA OFFSITE
PUBLIC IMPROVEMENTS
CITY PROJECT No. 4555.91

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING					
SYCAMORE PLAZA OF-ITE PUBLIC IMPROVEMENTS MISC. DETAILS							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	<i>Ag. Goolbsky</i>	2-17-93	WATER	<i>W. G. P.</i>	2-17-93		
TRANSPORTATION	<i>E. Duff</i>	2-17-93	WASTE WATER		2-17-93		
HYDROLOGY	<i>E. Duff</i>	2-17-93	TRAFFIC OPER				
DRAWING NO.	4555.91	MAP NO.	0000	SHEET	4	OF	67



KEYED NOTES

(A) BUILD NEW ARTERIAL PAVEMENT. SEE SHEET 4.

(B) n/a

(C) BUILD NEW CONCRETE MEDIAN CURB PER COA SD 2415. SEE SHEET 4.

(D) n/a

(E) n/a

(F) n/a

(G) n/a

(H) REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER.

(I) REMOVE AND DISPOSE OF EXISTING SIDEWALK.

(J) EXISTING PAVEMENT TO REMAIN.

(K) EXISTING CURB TO REMAIN.

(L) EXISTING LANDSCAPING TO REMAIN.

(M) n/a

(N) MATCH EXISTING PAVEMENT (CROWN).

(O) n/a

(P) BUILD 5/8" SEAL COAT. FOR LIMITS OF SEAL COAT, SEE STRIPING PLANS. SEE SHEET 13-15.

(Q) n/a

(R) n/a

(S) n/a

(T) n/a

(U) n/a

(V) n/a

(W) n/a

(X) n/a

(Y) n/a

(Z) n/a

(AA) n/a

(BB) n/a

(CC) n/a

(DD) EXISTING STRIPING, TYPICAL

LEGEND

NEW PAVEMENT

SAWCUT EXIST. PAVEMENT

TC = TOP OF CURB

TMC = TOP OF MEDIAN CURB

TP = TOP OF PAVEMENT

FL = FLOW LINE

CURVE NUMBER

POINT NUMBER

AS-BUILT INFORMATION

CONTRACTOR: UNIVERSAL CONTRACTORS INC.

STAKED BY: STEPHEN E. WALKER

ACCEPTANCE BY: BHI

DATE 8/93

FIELD NOTES

NO. DATE

12-FTS 1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 217.5' EAST OF THE CENTERLINE OF KNIGHT'S ROAD N.E. AND 6' SOUTH OF THE BACK OF CURB OF ACADEMY ROAD N.E.

RECORDING BY: BHI

DATE 8/93

MICRO-FILM INFORMATION

RECORDED BY: BHI

DATE

ELEVATION = 5412.82'

ENGINEER'S SEAL

STEPHEN E. WALKER

REGISTERED PROFESSIONAL ENGINEER

9-05-93

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING

SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS PAVING PLAN & PROFILE WYOMING BLVD - STA. 10+00.00 TO STA. 21+00.00

APPROVALS

ENGINEER

DATE

APPROVALS

ENGINEER

DATE

DRC CHAIRMAN

2-17-93

WATER

2-17-93

TRANSPORTATION

2-17-93

WASTE WATER

2-17-93

HYDROLOGY

2-17-93

TRAFFIC OPER

2-17-93

DRAWING NO. 4555.91

MAP NO. E-19

SHEET 5

KEYED NOTES

(A) BUILD NEW ARTERIAL PAVEMENT.
SEE SHEET 4.

(B) n/a

(C) BUILD NEW CONCRETE MEDIAN
CURB PER COA SD 2415. SEE
SHEET 4.

(D) n/a

(E) n/a

(F) n/a

(G) n/a
PAVEMENT W/ OR W/O SAWCUT.

(H) REMOVE AND DISPOSE OF EXISTING
CURB AND GUTTER.

(I) n/a

(J) EXISTING PAVEMENT TO REMAIN.

(K) EXISTING CURB TO REMAIN.

(L) EXISTING LANDSCAPING TO REMAIN.

(M) n/a

(N) MATCH EXISTING PAVEMENT
(CROWN).

(O) INSTALL PVC LINER BEHIND CURB.
SEE DETAIL ON SHEET 4.

(P) n/a

(Q) BUILD NEW LANDSCAPING. SEE
LANDSCAPING PLANS.

(R) n/a

(S) n/a

(T) n/a

(U) n/a

(V) n/a

(W) n/a

(X) n/a

(Y) n/a

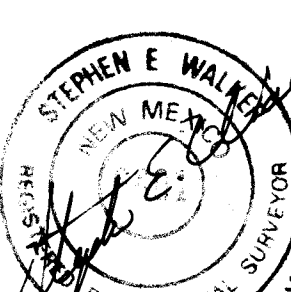
(Z) n/a

(AA) n/a

(BB) n/a

(CC) n/a

AS SHOWN ON ORIGINAL
AND VERIFICATION ONLY


5-03-93

 NEW PAVEMENT

 SAWCUT EXIST. PAVEMENT

TC = TOP OF CURB

TMC = TOP OF MEDIAN CURB

TP = TOP OF PAVEMENT

FL = FLOW LINE

 CURVE NUMBER

 POINT NUMBER

SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
PAVING PLAN & PROFILE
WYOMING BLVD - STA. 21+00.00 TO STA. 32+10.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Eshelby</i>	2-17-93	WATER	<i>W.A. G. ...</i>	2-17-93
TRANSPORTATION	<i>R. ...</i>	2-17-93	WASTE WATER		2-17-93
HYDROLOGY	<i>H. ...</i>	2-17-93	TRAFFIC OPER		

DRAWING NO.	4555.91	MAP NO.	E-19	SHEET	6	OF	7
-------------	---------	---------	------	-------	---	----	---

AS-BUILT INFORMATION	
CONTRACTOR UNIVERSAL CONTRACTORS INC.	
INSPECTED BY	STEPHEN E. WALKER
DATE	8/93
FIELD VERIFICATION BY	BHI
DATE	8/93
CORRECTED BY	BHI
DATE	8/93
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

SURVEY INFORMATION		BENCH MARKS
FIELD NOTES		
NO.	BY DATE	
		A STANDARD ACS BRASS TABLET STAMPED "12-F19 1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 217.5' EAST OF THE CENTERLINE OF KNIGHT'S ROAD N.E. AND 6' SOUTH OF THE BACK OF CURB OF ACADEMY ROAD N.E. ELEVATION = 5412.82'

[illegible]

QUERQUE PARTMENT NG	
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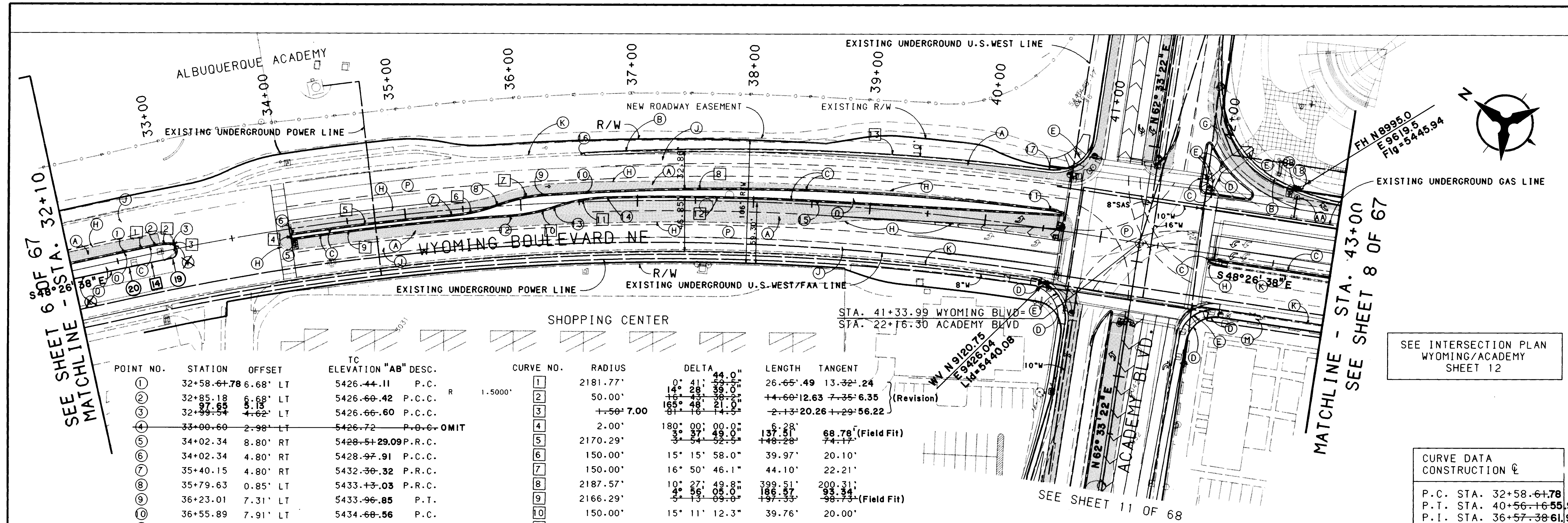
LAZA		
IMPROVEMENTS		
PROFILE		
0 TO STA. 32+10.00		
VALS	ENGINEER	DATE
	<i>W. G. T.</i>	2-17-93
WATER		2-17-93
C OPER		
SHEET		OF 6

```

USERNAME: CDP:[C9224840.PAD]
FILENAME: PNP2.GRF

```

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)



KEYED NOTES

- (A) BUILD NEW ARTERIAL PAVEMENT. SEE SHEET 4.
- (B) BUILD NEW CONCRETE STANDARD CURB AND GUTTER PER COA SD 2415.
- (C) BUILD NEW CONCRETE MEDIAN CURB PER COA SD 2415. SEE SHEET 4.
- (D) BUILD NEW 6' WIDE CONCRETE SIDEWALK PER COA SD 2430.
- (E) BUILD NEW WHEELCHAIR RAMP AS PER COA STD 2441.
- (F) SAWCUT EXISTING PAVEMENT.
- (G) REMOVE AND DISPOSE OF EXISTING PAVEMENT W/ OR W/O SAWCUT.
- (H) REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER.
- (I) REMOVE AND DISPOSE OF EXISTING SIDEWALK.
- (J) EXISTING PAVEMENT TO REMAIN.
- (K) EXISTING CURB TO REMAIN.
- (L) EXISTING LANDSCAPING TO REMAIN.
- (M) EXISTING SIDEWALK TO REMAIN.
- (N) MATCH EXISTING PAVEMENT (CROWN).
- (O) INSTALL PVC LINER BEHIND CURB. SEE DETAIL ON SHEET 4.
- (P) BUILD 5/8" SEAL COAT. FOR SEAL COAT LIMITS, SEE STRIPING PLANS.
- (Q) BUILD NEW LANDSCAPING. SEE LANDSCAPING PLANS.
- (R) n/a
- (S) n/a
- (T) "AS SHOWN ON HORIZONTAL AND VERTICAL ALIGNMENT ONLY"
- (U) n/a
- (V) n/a
- (W) n/a
- (X) n/a
- (Y) n/a
- (Z) n/a
- (AA) REMOVE AND RETURN TO COA THE EXISTING FIRE HYDRANT.
- (BB) INSTALL NEW FIRE HYDRANT AS PER COA STD 2340.
- (CC) n/a
- (DD) EXISTING STRIPING

LEGEND

- NEW PAVEMENT
- SAWCUT EXIST. PAVEMENT
- TC = TOP OF CURB
- TMC = TOP OF MEDIAN CURB
- TP = TOP OF PAVEMENT
- FL = FLOW LINE
- CURVE NUMBER
- POINT NUMBER

CURVE DATA CONSTRUCTION

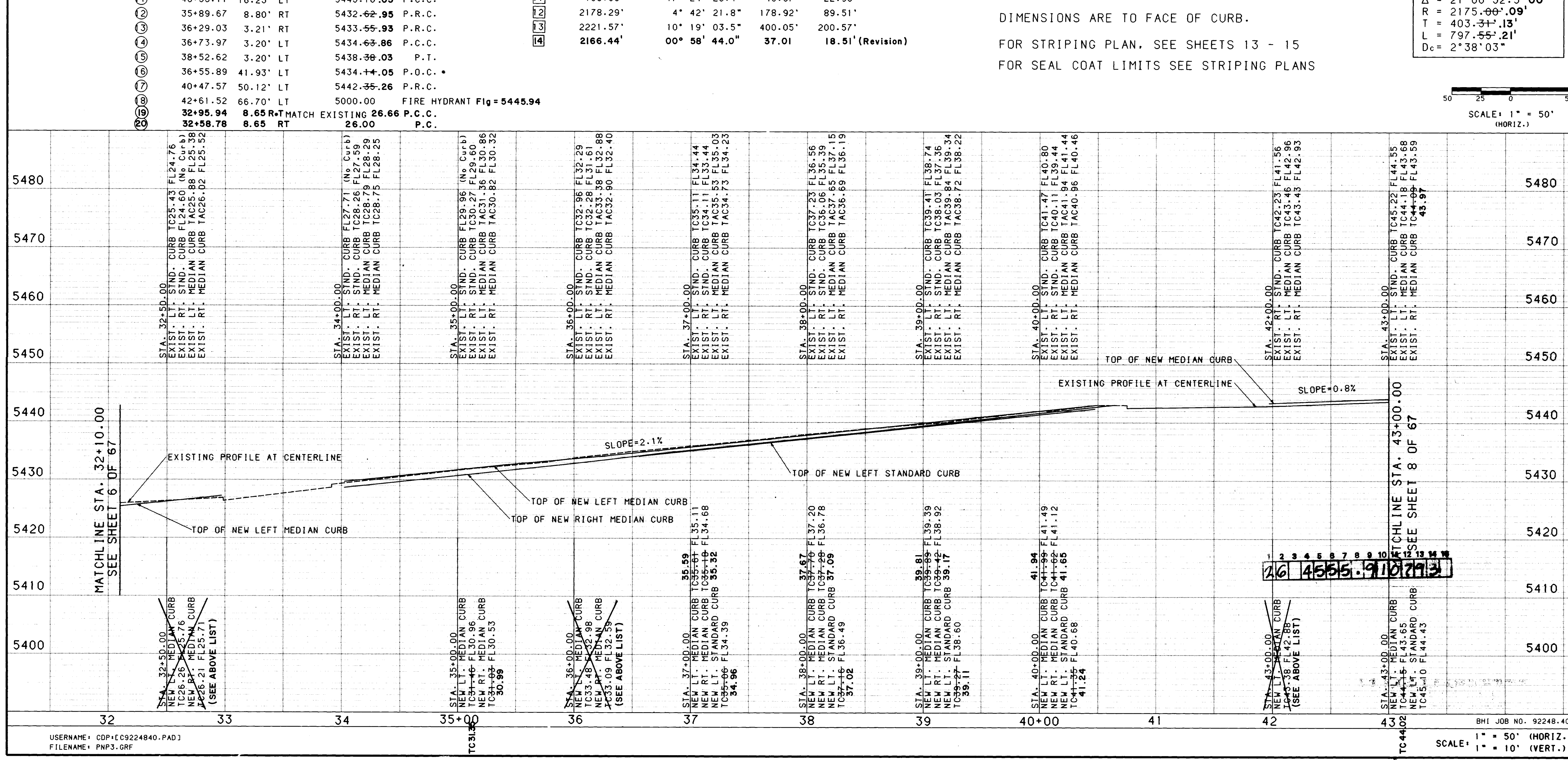
P.C. STA. 32+58.61.78
P.T. STA. 40+56.16.55.99
P.I. STA. 36+57.39.61.91
 $\Delta = 21^{\circ}00'32.5''$
 $R = 2175.60'09''$
 $T = 403.31'13''$
 $L = 797.55'21''$
 $D_c = 2^{\circ}38'03''$

SEE INTERSECTION PLAN WYOMING/ACADEMY SHEET 12

SCALE: 1" = 50' (HORIZ.)

AS-BUILT INFORMATION

CONTRACTOR	UNIVERSAL CONTRACTORS INC.
DESIGNED BY	STEPHEN E. WALKER
DATE	8/93
ACCEPTANCE BY	BHI
DATE	8/93
FIELD CORRECTION BY	BHI
DATE	8/93
DRAWINGS CORRECTED BY	BHI
DATE	8/93
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	



ENGINEER'S SEAL

NO. BY DATE

REVISIONS

NO.	DATE	REMARKS
1	2-17-93	DESIGN
2	2-17-93	WASTE WATER
3	2-17-93	TRAFFIC OPER

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
PAVING PLAN & PROFILE
WYOMING BLVD - STA. 32+10.00 TO STA. 43+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAFFIC OPER		

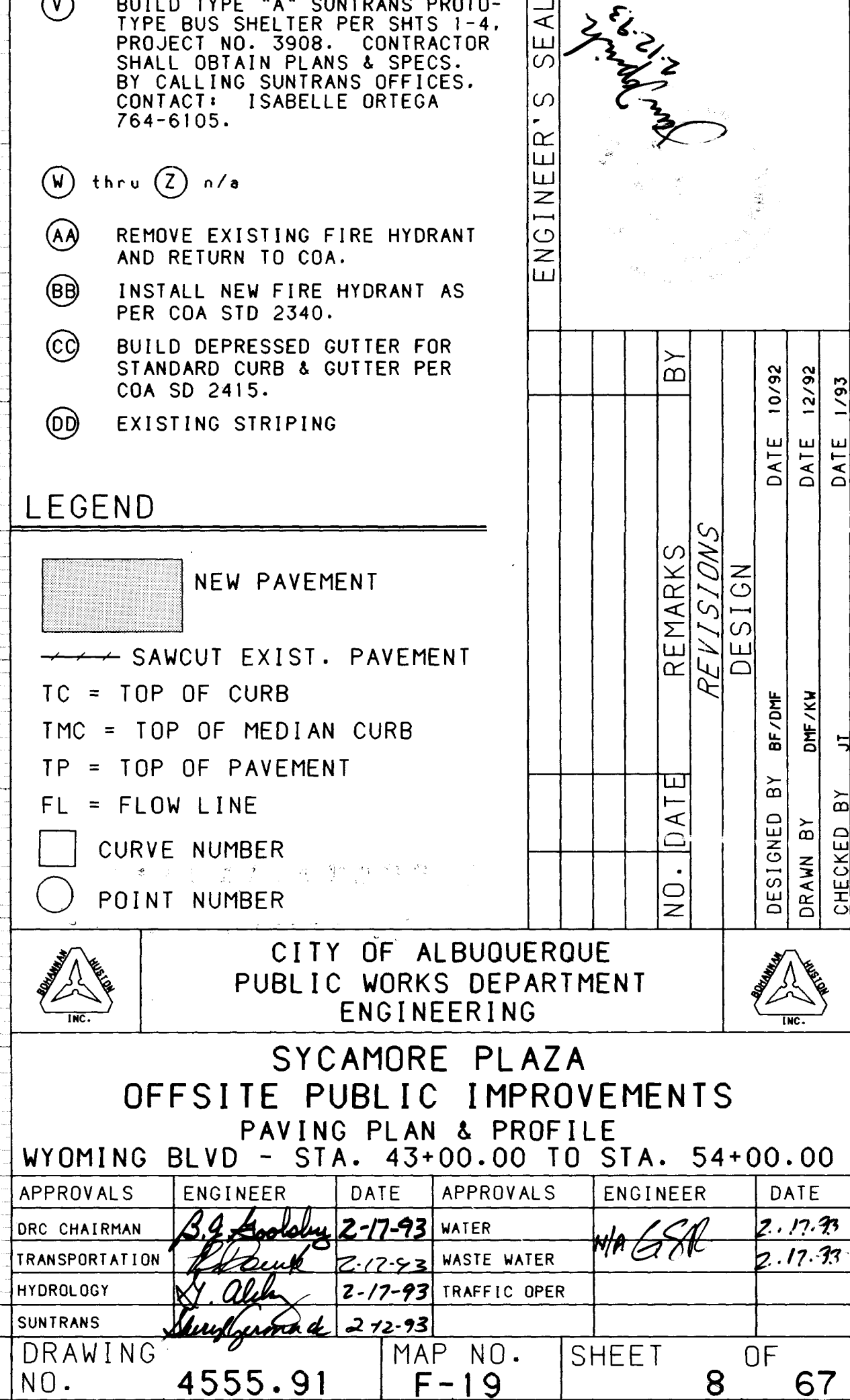
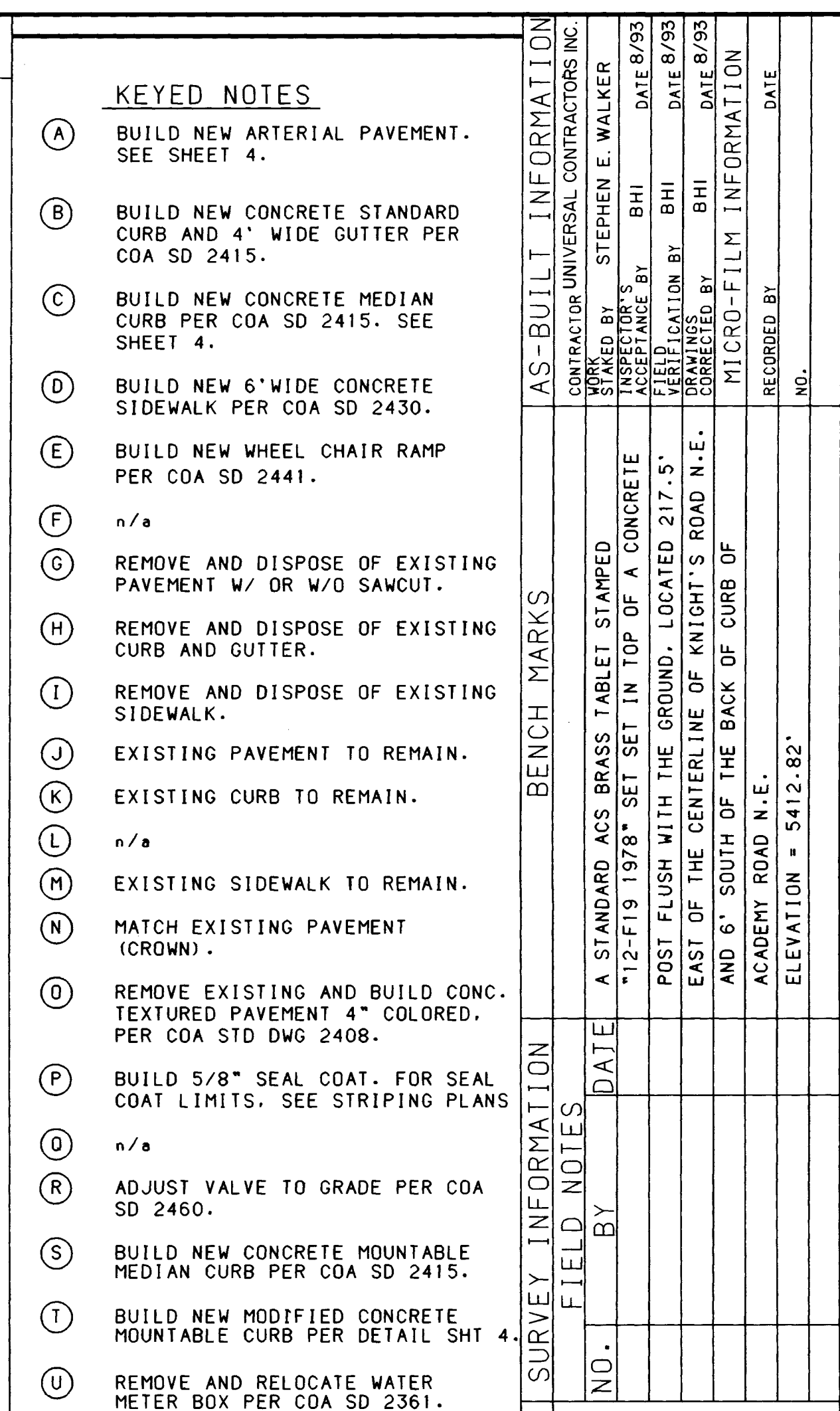
APPROVALS

ENGINEER	DATE	APPROVALS	ENGINEER	DATE
<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	2-17-93	TRAFFIC OPER		

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

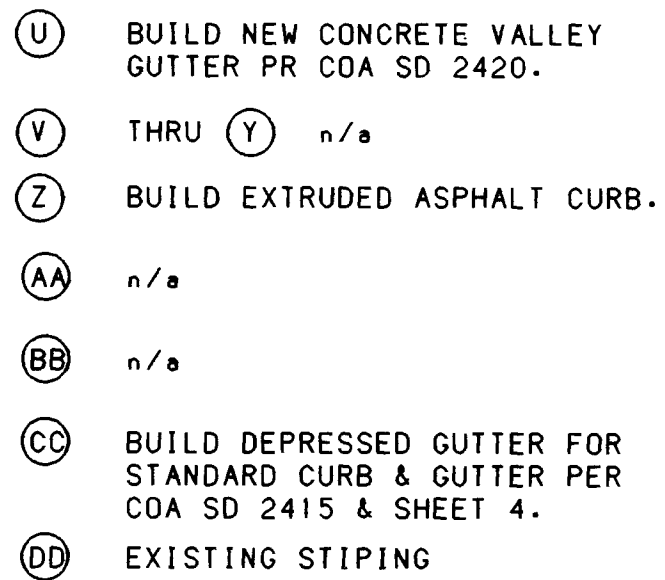
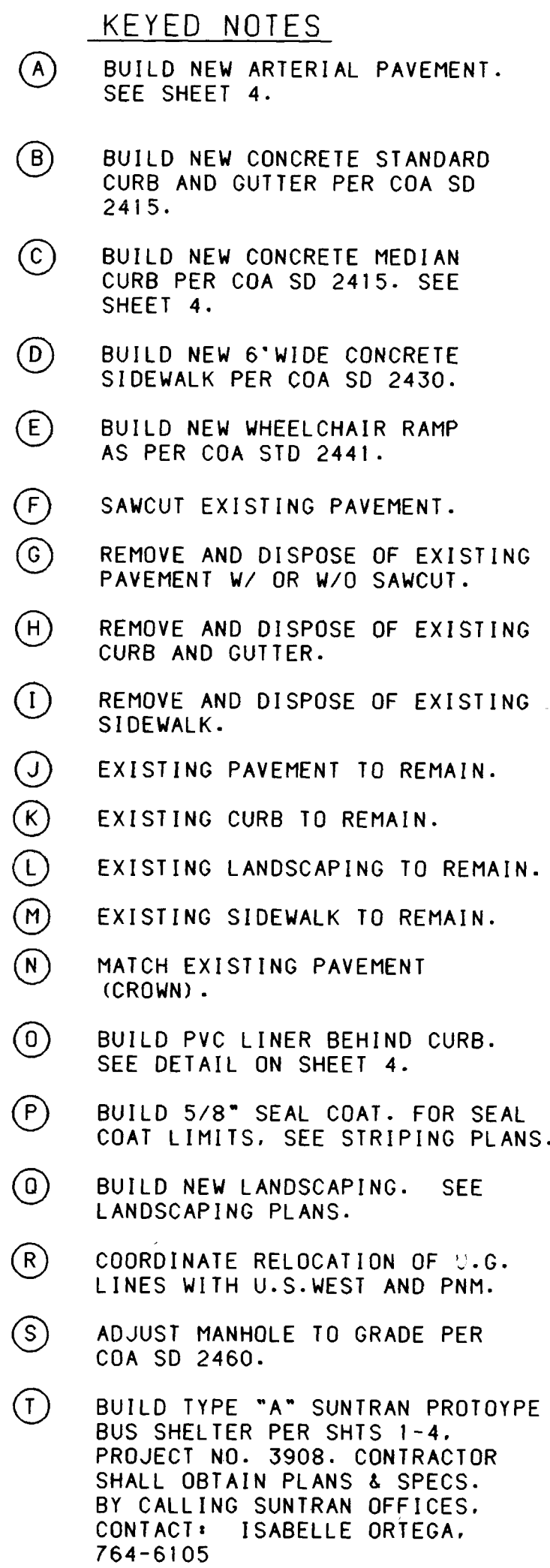
DRAWING NO. 4555.91
MAP NO. E-19
SHEET 7 OF 67

USERNAME: CDP1C9224840.PAD1
FILENAME: PNP3.GRF



SEE 1"= 20' PLAN
ACADEMY BLVD.
SHEET 11

POINT NO.	STATION	OFFSET	TC ELEVATION "AB" DESC.	CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
①	23+01.40	52.46' LT	5443.77.50 P.T.	1	300.00'	14° 04' 32.4"	73.70'	37.04'
②	26+87.74	52.46' LT	5457.86 58.47 P.O.C. BEGIN TAPER	2	300.00'	13° 33' 40.4"	71.01'	35.67'
③	26+87.74	2.54' RT	5458.79 59.28 P.C.	3	150.00'	20° 10' 16.8"	52.81'	26.68'
④	27+60.70	6.47' LT	5460.88 61.76 P.R.C.	4	50.00'	20° 17' 55.0"	17.71'	8.95'
⑤	23+21.30	18.43' RT	5445.00 44.79 P.T. *	5	50.00'	19° 53' 50.4"	17.36'	8.77'
⑥	23+36.77	18.43' RT	5445.37 P.O.C.	6	150.00'	19° 48' 05.7"	51.84'	26.18'
⑦	23+53.19	18.41' RT	5446.19 P.O.C.	NOTE: CURB ENDS AT POINT #5 (AS SHOWN ON SHT. 12)				
⑧	23+51.10	51.04' RT	5446.93 P.C.C.					
⑨	24+21.44	42.70' RT	5448.20 21 P.T. *					
⑩	24+74.18	42.78' RT	5449.88 84 P.C. *					
⑪	25+25.88	52.09' RT	5451.99 97 P.R.C.					
⑫	25+43.23	55.20' RT	5452.84 80 P.T.					
⑬	26+03.23	55.20' RT	5455.34 35 P.C.	FOR STRIPING PLANS SEE SHEETS 13 - 15				
⑭	26+20.24	52.21' RT	5455.98 56.06 P.R.C.					
⑮	26+71.04	43.26' RT	5457.96 98 P.T. * MATCH EXISTING					



 NEW PAVEMENT

~~-----~~ SAWCUT EXIST. PAVEMENT

TC = TOP OF CURB

TMC = TOP OF MEDIAN CURB

TP = TOP OF PAVEMENT

FL 3 FLOW LINE


The diagram shows a horizontal line representing a flow line with stationing from 0 to 15. Below the line are two rows of numbers in boxes. The first row contains the digits 2, 6, 4, 5, 5, 9, 1, 0, 9, 9, 3. The second row contains the digits 2, 6, 4, 5, 5, 9, 1, 0, 9, 9, 3.

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING			
SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS					
PAVING PLAN & PROFILE					
CADEMY BLVD - STA. 16+00.00 TO STA. 27+60.70					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
C CHAIRMAN	<i>B. G. [Signature]</i>	2-17-93	WATER	<i>M. [Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER		2-17-93
DROLOGY	<i>[Signature]</i>	2-17-93	TRAFFIC OPER		
TRANSITS	<i>[Signature]</i>	3/2/93			
DRAWING		MAP NO.	SHEET		OF
0.	4555.91	E-19	9		67

SEE SHEET 9 OF 67
MATCHLINE - STA. 27+60.70

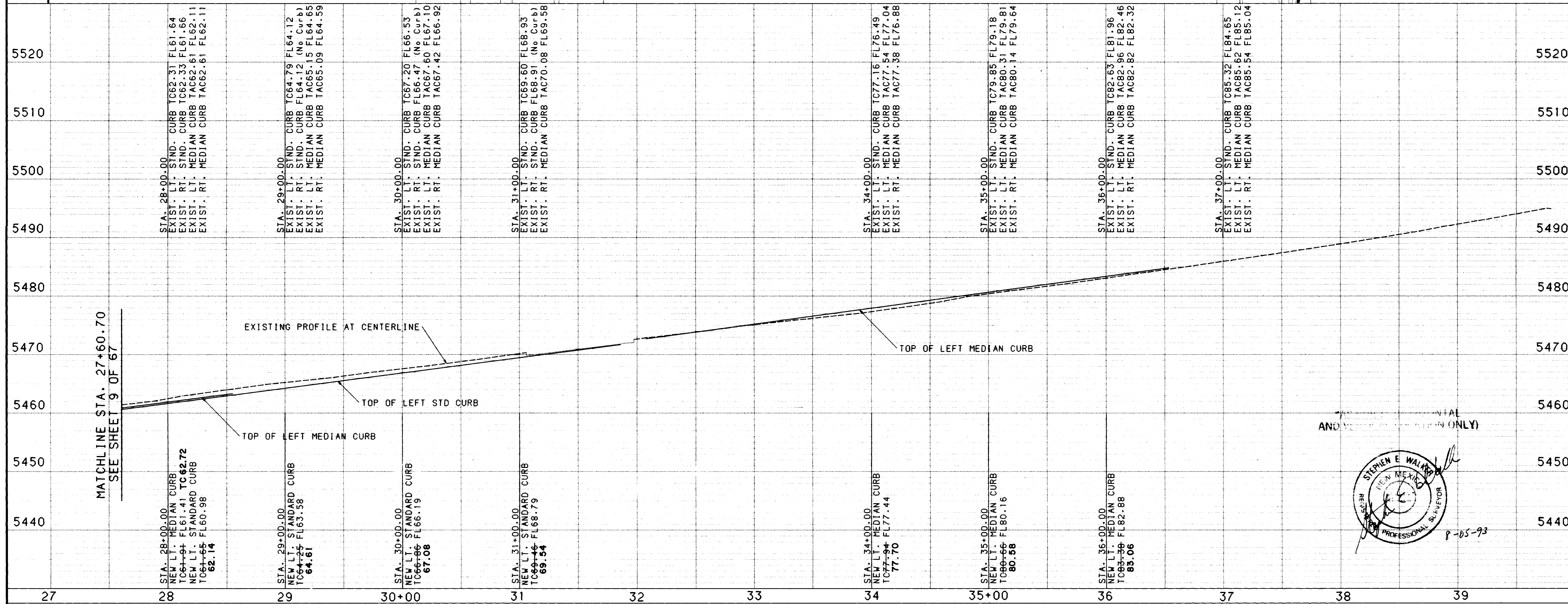
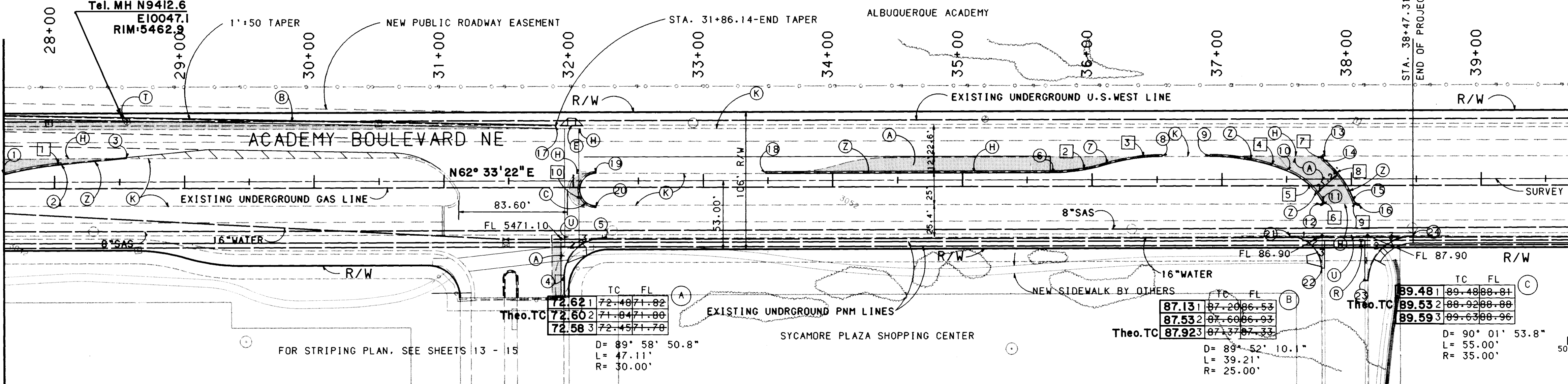
POINT NO.	STATION	OFFSET	TC ELEVATION "AB" DESC.
1	27+60.70	6.47' LT	5460.39 61.76 P.R.C.
2	28+05.34	13.47' LT	5462.94 85 P.T.
3	28+55.07	18.86' LT	5463.51 64.07 P.O.L.
4	31+92.30	73.76' RT	5472.50 64 P.C.
5	32+22.29	43.76' RT	5472.43 56 P.T.
6	35+60.04	6.12' LT	5482.54 26 P.C.
7	36+02.67	12.30' LT	5483.42 11 P.R.C.
8	36+45.95	18.49' LT	5484.35 16 P.T.
9	36+90.85	18.46' LT	5485.36 37 P.C.
10	37+50.48	7.06' LT	5487.39 P.C.C.
11	37+78.02	16.69' RT	5487.86 P.C.C.
12	37+76.29	19.70' RT	5487.75 73 P.T.
13	37+79.61	18.56' LT	5488.53 87.85 P.C.
14	37+78.34	15.00' LT	5488.42 87.74 P.R.C.
15	38+01.44	16.55' RT	5488.61 60 P.R.C.
16	38+06.09	19.72' RT	5488.65 64 P.T.
17	31+86.14	42.49' LT	5471.70 P.O.L.

POINT NO.	STATION	OFFSET	TC ELEVATION "AB" DESC.
18	33+48.12	6.12' LT	5476.32 36 P.O.L.
19	32+17.42	6.51' LT	5472.95 73.02 P.C.
20	32+17.47	9.78' RT	5472.74 92 P.T.
21	37+52.35	43.75' RT	5486.80 73 P.C.C.
22	37+77.30	68.75' RT	5488.40 32 P.C.C.
23	38+12.30	78.74' RT	5489.40 42 P.C.C.
24	38+47.31	43.74' RT	5489.70 64 P.C.C.

* MATCH EXISTING

NOTE: ALL ASPHALT CURB GRADES SHOWN
WERE COMPUTED (USING TA + 6")

CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
1	300.00'	80° 39' 31.0"	45.34'	22.71'
2	150.00'	16° 30' 42.4"	43.23'	21.76'
3	150.00'	16° 45' 27.3"	43.87'	22.09'
4	160.00'	21° 52' 32.5"	61.09'	30.92'
5	55.80'	38° 02' 06.4"	37.04'	19.23'
6	2.00'	120° 14' 31.9"	4.20'	3.48'
7	2.00'	141° 07' 02.8"	4.93'	5.67'
8	77.00'	29° 25' 23.0"	39.54'	20.22'
9	5.00'	68° 28' 02.1"	5.97'	3.40'
10	13.14'	180° 00' 00.0"	41.30'	-----



- KEYED NOTES**
- (A) BUILD NEW ARTERIAL PAVEMENT. SEE SHEET 4.
 - (B) BUILD NEW CONCRETE STANDARD CURB AND GUTTER PER COA SD 2415.
 - (C) BUILD NEW CONCRETE MEDIAN CURB PER COA SD 2415. SEE SHEET 4.
 - (D) BUILD NEW 6" WIDE CONCRETE SIDEWALK PER COA SD 2430.
 - (E) BUILD NEW WHEELCHAIR RAMP AS PER COA STD 2441.
 - (F) SAWCUT EXISTING PAVEMENT.
 - (G) REMOVE AND DISPOSE OF EXISTING PAVEMENT W/ OR W/O SAWCUT.
 - (H) REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER.
 - (I) REMOVE AND DISPOSE OF EXISTING SIDEWALK.
 - (J) EXISTING PAVEMENT TO REMAIN.
 - (K) EXISTING CURB TO REMAIN.
 - (L) EXISTING LANDSCAPING TO REMAIN.
 - (M) EXISTING SIDEWALK TO REMAIN.
 - (N) MATCH EXISTING PAVEMENT (CROWN).
 - (O) BUILD CONCRETE TEXTURED PAVEMENT 4" COLORED. PER COA SD 2408.
 - (P) BUILD 5/8" SEAL COAT. FOR SEAL COAT LIMITS. SEE STRIPING PLAN.
 - (Q) BUILD NEW LANDSCAPING. SEE LANDSCAPING PLANS.
 - (R) ADJUST VALVE TO GRADE PER COA SD 2460.
 - (S) ADJUST MANHOLE TO GRADE PER COA SD 2460.
 - (T) ADJUST U.S. WEST MANHOLE TO GRADE.
 - (U) BUILD NEW CONCRETE VALLEY GUTTER PER COA SD 2420.
 - (V) n/a
 - (W) n/a
 - (X) n/a
 - (Y) n/a
 - (Z) BUILD EXTRUDED ASPHALT CURB FROM PT 2 - PT 3
 - (AA) REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
 - (BB) n/a
 - (CC) BUILD DEPRESSED GUTTER FOR STANDARD CURB & GUTTER PER COA SD 2415 & SHEET 4.

LEGEND

- NEW PAVEMENT
- SAWCUT EXIST. PAVEMENT
- TC = TOP OF CURB
- TMC = TOP OF MEDIAN CURB
- TP = TOP OF PAVEMENT
- FL = FLOW LINE

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING**

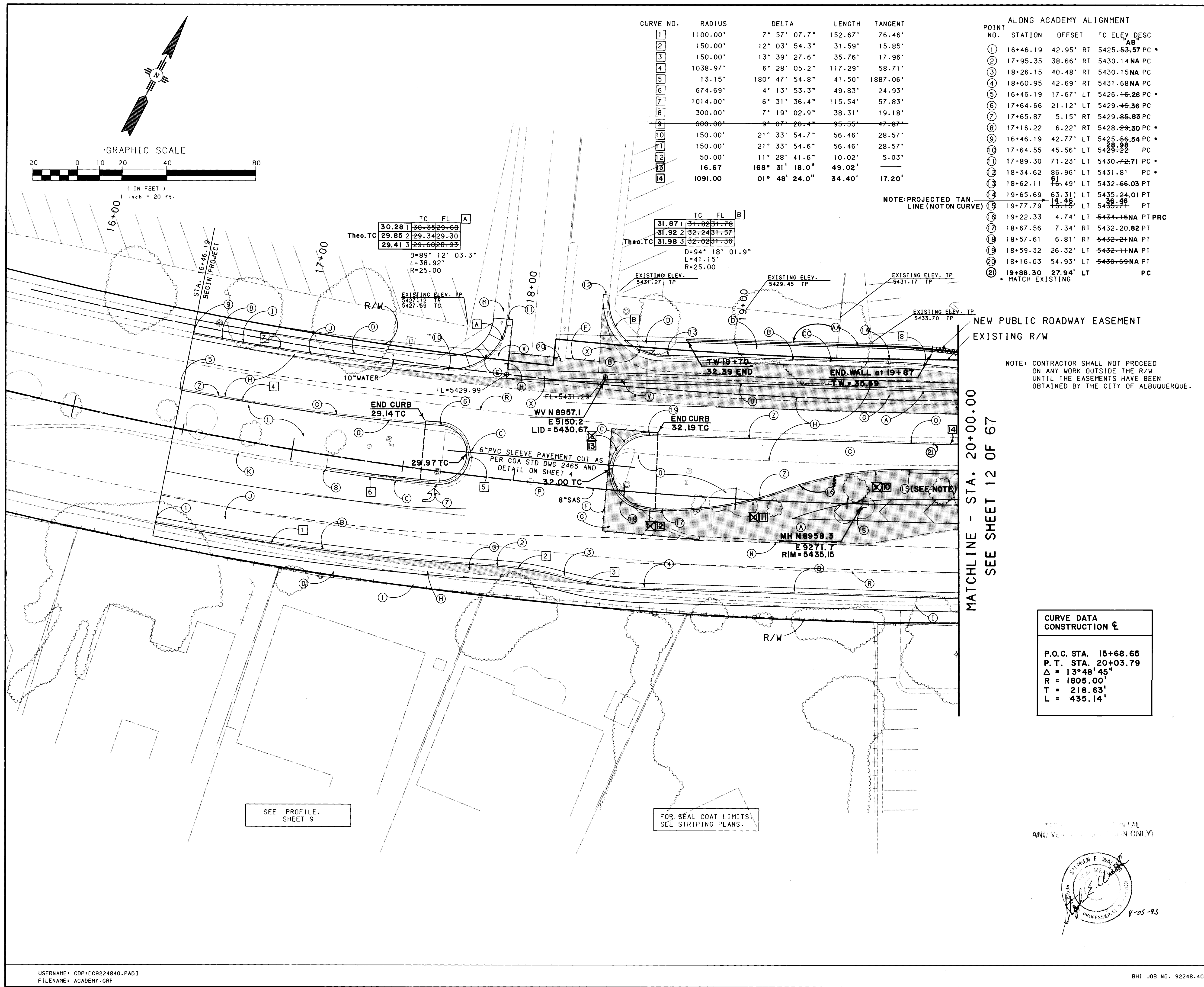
**SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
PAVING PLAN & PROFILE**

ACADEMY BLVD - STA. 27+69.70 TO STA. 40+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93			

AS-BUILT INFORMATION			
CONTRACTOR	UNIVERSAL CONTRACTORS INC.	DATE	11/92
STAMPED BY	STEPHEN E. WALKER	DATE	11/92
ACCEPTANCE BY	BHI	DATE	8/93
FIELD BY	BHI	DATE	8/93
REVISIONS		DATE	8/93
DESIGNED BY	DMF	DATE	10/92
DRAWN BY	DMF	DATE	10/92
CHECKED BY	JT	DATE	11/92

ENGINEER'S SEAL			
NO.	DATE	BY	REMARKS
1	11/92	JT	REVISIONS
2	11/92	JT	DESIGN



KEYED NOTES

- (A) BUILD NEW ARTERIAL PAVEMENT. SEE SHEET 4.
- (B) BUILD NEW CONCRETE STANDARD CURB AND GUTTER PER COA SD 2415.
- (C) BUILD NEW CONCRETE MEDIAN CURB PER COA SD 2415. SEE SHEET 4.
- (D) BUILD NEW 6" WIDE CONCRETE SIDEWALK PER COA SD 2430.
- (E) BUILD NEW WHEELCHAIR RAMP AS PER COA STD 2441.
- (F) SAWCUT EXISTING PAVEMENT.
- (G) REMOVE AND DISPOSE OF EXISTING PAVEMENT W/ OR W/O SAWCUT.
- (H) REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER.
- (I) REMOVE AND DISPOSE OF EXISTING SIDEWALK.
- (J) EXISTING PAVEMENT TO REMAIN.
- (K) EXISTING CURB TO REMAIN.
- (L) EXISTING LANDSCAPING TO REMAIN.
- (M) EXISTING SIDEWALK TO REMAIN.
- (N) MATCH EXISTING PAVEMENT (CROWN).
- (O) BUILD PVC LINER BEHIND CURB. SEE DETAIL ON SHEET 4.
- (P) BUILD 5/8" SEAL COAT.
- (Q) BUILD NEW LANDSCAPING. SEE LANDSCAPING PLANS.
- (R) EXISTING PAVEMENT STIPE
- (S) ADJUST MANHOLE TO GRADE PER COA SD 2460.
- (T) n/a
- (U) BUILD NEW CONCRETE VALLEY GUTTER PR COA SD 2420.
- (V) ADJUST VALVE BOX TO GRADE PER COA STD DWG 2332
- (W) n/a
- (X) REMOVE EXISTING VALLEY GUTTER
- (Y) n/a
- (Z) BUILD EXTRUDED ASPHALT CURB.
- (AA) CONSTRUCT RETAINING WALLS AND HAND RAIL. SEE DETAIL SHEET 4.
- (BB) n/a
- (CC) BUILD DEPRESSED GUTTER FOR STANDARD CURB & GUTTER PER COA SD 2415 & SHEET 4.

LEGEND

- NEW PAVEMENT
- SAWCUT EXIST. PAVEMENT
- TC = TOP OF CURB
- TMC = TOP OF MEDIAN CURB
- TP = TOP OF PAVEMENT
- FL = FLOW LINE

AS-BUILT INFORMATION

CONTRACTOR: UNIVERSAL CONTRACTORS INC.

STAKED BY: STEPHEN E. WALKER

DATE: 8/93

FIELD: ACCEPTANCE BY: BHI

DATE: 8/93

REVISIONS

DESIGNED BY: DWF

DRAWN BY: DWF

CHECKED BY: JT

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
1:20 ROAD PLAN
ACADEMY BLVD 16+00.00 TO 20+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	2-17-93	2-17-93	WATER	2-17-93	2-17-93
TRANSPORTATION	2-17-93	2-17-93	WASTE WATER	2-17-93	2-17-93
HYDROLOGY	2-17-93	2-17-93	TRAFFIC		

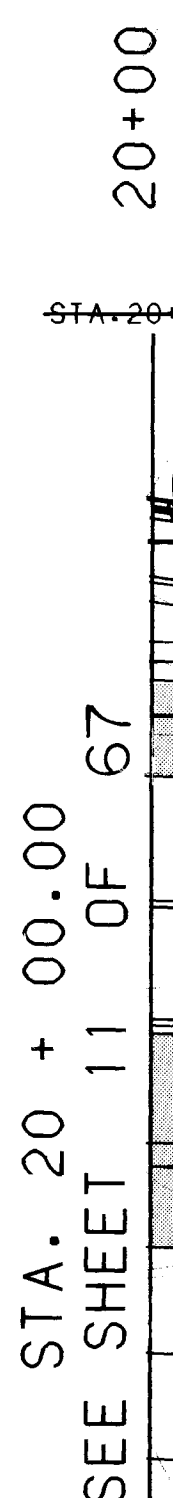
DRAWING NO. 4555.91

MAP NO. E-19

SHEET 11 OF 67

USERNAME: CDP\CDP224840.PAD3
FILENAME: ACADEMY.GRF

BHI JOB NO. 92248.40



ALONG ACADEMY ALIGNMENT					
POINT NO.	STATION	OFFSET	TC	ELEV	DESC
①	21+69.75	76.11' RT	5441.34	42.47	AB PT
②	21+40.69	45.83' RT	5440.92	45.83	PC
③	21+53.28	14.46' LT	5441.32	45.83	20PT
④	21+53.89	16.24' LT	5441.22	45.83	PCC
⑤	21+22.32	27.46' LT	5439.52	39.52	PC
⑥	21+37.39	52.46' LT	5440.66	39.74	PCC
⑦	21+72.39	87.38' LT	5440.94	41.91	PT
⑧	22+29.82	69.76' LT	5443.22	43.22	20PT
⑨	22+31.81	69.70' LT	5443.22	43.22	PCC
⑩	22+32.53	80.90' LT	5443.10	43.10	PC
⑪	22+66.41	86.61' LT	5442.35	42.35	26PT
⑫	23+01.40	52.46' LT	5443.77	43.77	50PC
⑬	22+85.85	2.54' RT	5444.35	44.35	24PT
⑭	22+85.15	4.25' RT	5444.25	44.25	PCC
⑮	22+88.76	7.44' RT	5444.38	44.38	PCC
⑯	23+20.06	18.43' RT	5445.00	44.99	PC
⑰	23+09.43	48.18' RT	5445.16	45.16	PRC
⑱	23+08.29	44.54' RT	5445.16	45.16	29PC
⑲	22+72.15	44.54' RT	5444.29	44.29	25PT
⑳	22+67.17	49.54' RT	5444.20	44.20	25PC
㉑	22+67.17	85.67' RT	5444.77	44.77	57PT
㉒	22+74.71	87.53' RT	5444.71	44.71	PRC
㉓	22+88.17	106.23' RT	5445.79	45.79	72PCC
㉔	23+51.10	51.04' RT	5446.93	46.93	PCC
㉕	24+21.45	42.70' RT	5448.20	48.20	21PT
㉖	22+11.17	62.74' RT	5443.35	43.35	29PT
㉗	22+08.69	62.49' RT	5443.37	43.37	36PC
㉘	22+07.17	77.54' RT	5443.00	43.00	43PC
㉙	22+32.17	49.55' RT	-	-	-
㉚	22+22.17	49.55' RT	-	-	-
㉛	21+67.24	2.46' LT	-	-	-
㉜	22+18.96	57.05' LT	-	-	-
㉝	22+71.74	18.02' LT	-	-	-
㉞	22+71.80	7.86' LT	-	-	-
㉟	23+25.38	44.54' RT	-	-	-
㊱	22+00.67	49.55' RT	-	-	-
㊲	21+89.13	49.55' RT	-	-	-
㊳	21+67.44	34.57' LT	-	-	-
㊴	21+67.42	47.20' LT	-	-	-
㊵	22+41.20	57.00' LT	-	-	-
㊶	23+03.51	28.95' RT	-	-	-

	ALONG WYOMING ALIGNMENT			"AB"
①	42°10.10	46.55° RT	5441.94	PT
②	41°79.82	75.61° RT	5440.92	PC
③	41°19.53	63.02° RT	5441.32	20 PT
④	41°17.75	62.41° RT	5441.32	22 PC
⑤	41°06.53	93.98° RT	5438.92	PC
⑥	40°81.53	78.91° RT	5440.06	PC
⑦	40°46.41	43.89° RT	5440.94	91 PT
⑧	40°64.23	13.53° LT	5443.22	20 PT
⑨	40°64.29	15.51° LT	5443.22	20 PC
⑩	40°53.11	16.23° LT	5443.40	05 PC
⑪	40°47.57	50.12° LT	5442.35	26 PT
⑫	40°81.53	85.10° LT	5443.77	50 PC
⑬	41°36.53	69.55° LT	5444.35	24 PT
⑭	41°38.24	68.85° LT	5444.32	22 PC
⑮	41°41.43	72.46° LT	5444.38	06 PC
⑯	41°52.42	103.76° LT	5445.00	00 PC
⑰	41°82.17	93.13° LT	5445.16	PRC
⑱	41°78.53	91.99° LT	5445.46	29 PC
⑲	41°78.63	54.85° LT	5444.29	25 PT
⑳	41°83.53	50.87° LT	5444.20	25 PC
\21	42°19.66	50.87° LT	5444.77	57 PT
\22	42°21.51	58.41° LT	5444.71	PRC
\23	43°04.84	59.87° LT	5445.79	41 PC
\24	42°40.21	71.87° LT	5445.62	72 PC
\27	41°96.73	5.13° RT	5443.35	29 PT
\28	41°96.48	7.61° RT	5443.37	36 PC
\29	42°11.53	9.13° RT	5443.00	43 PC

KEYED NOTES

- (A) BUILD NEW ARTERIAL PAVEMENT. SEE SHEET 4.
- (B) BUILD NEW CONCRETE STANDARD CURB AND GUTTER PER COA SD 2415.
- (C) BUILD NEW CONCRETE MEDIAN CURB PER COA SD 2415. SEE SHEET 4.
- (D) BUILD NEW 6" WIDE CONCRETE SIDEWALK PER COA SD 2430.
- (E) BUILD NEW WHEELCHAIR RAMP AS PER COA STD 2441.
- (F) SAWCUT EXISTING PAVEMENT.
- (G) REMOVE AND DISPOSE OF EXISTING PAVEMENT W/ OR W/O SAWCUT.
- (H) REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER.
- (I) REMOVE AND DISPOSE OF EXISTING SIDEWALK.
- (J) EXISTING PAVEMENT TO REMAIN.
- (K) EXISTING CURB TO REMAIN.
- (L) EXISTING LANDSCAPING TO REMAIN.
- (M) EXISTING SIDEWALK TO REMAIN.
- (N) MATCH EXISTING PAVEMENT (CROWN).
- (O) BUILD PVC LINER BEHIND CURB. SEE DETAIL ON SHEET 4.
- (P) BUILD 5/8" SEAL COAT.
- (D) BUILD NEW LANDSCAPING. SEE LANDSCAPING PLANS.
- (R) EXISTING PAVEMENT STRIPE
- (S) ADJUST MANHOLE TO GRADE PER COA SD 2460.
- (T) n/a
- (U) BUILD NEW CONCRETE VALLEY GUTTER PR COA SD 2420.
- (V) ADJUST VALVE BOX TO GRADE PER COA STD DWG 2332
- (W) ADJUST GAS VALVE BOX TO GRADE
- (X) REMOVE EXISTING VALLEY GUTTER
- (Y) n/a
- (Z) BUILD EXTRUDED ASPHALT CURB.
- (AA) CONSTRUCT RETAINING WALLS AND HAND RAIL. SEE DETAIL SHEET 4.
- (BB) REPAIR LOCALIZED PAVEMENT FAILURES. SEE SECTION SHEET 4.
- (CC) BUILD DEPRESSED GUTTER FOR STANDARD CURB & GUTTER PER COA SD 2415 & SHEET 4.

LEGEND

 NEW PAVEMENT

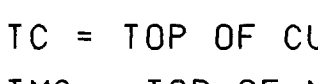
 SAWCUT EXIST. PAVEMENT

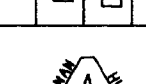
TC = TOP OF CURB

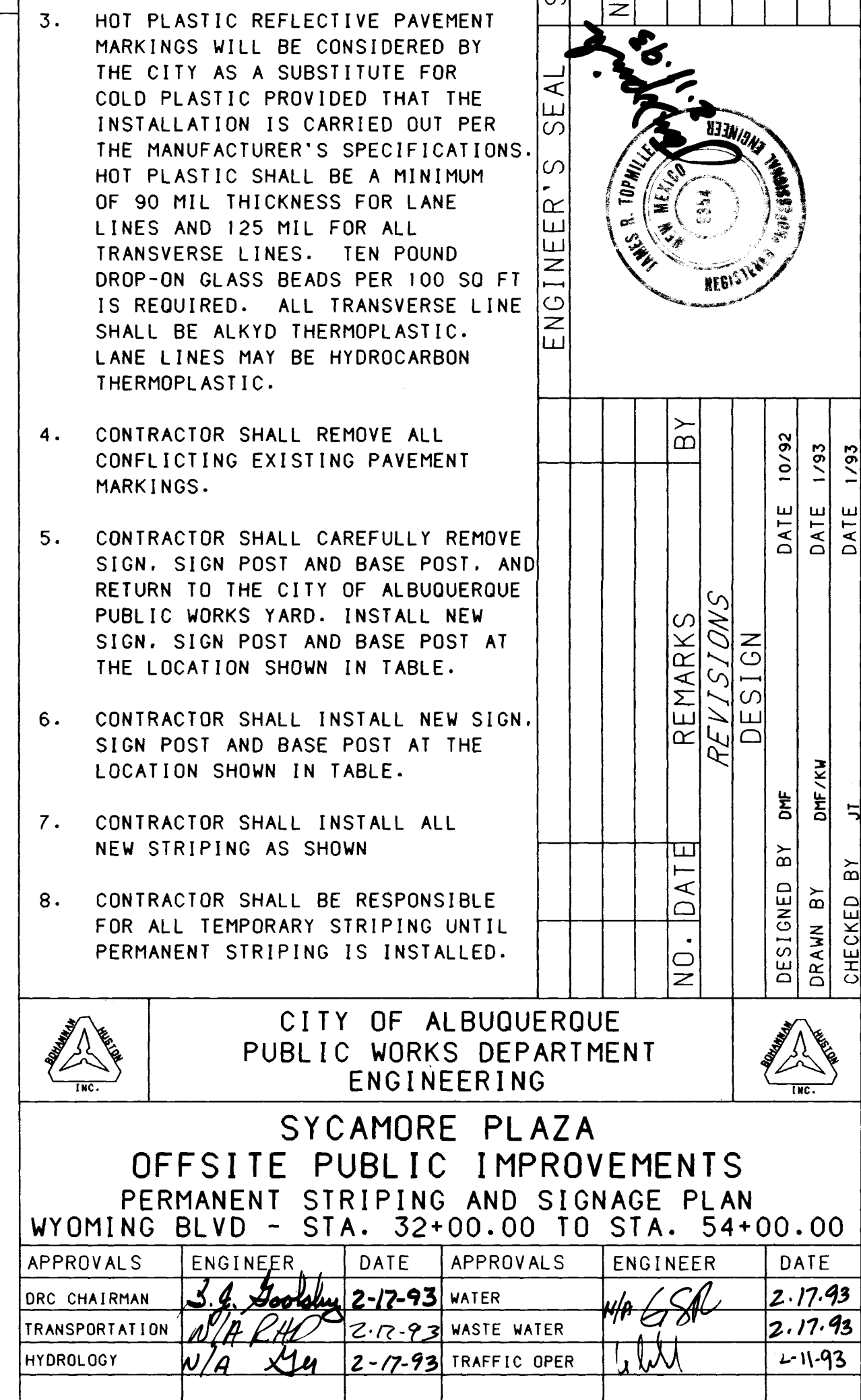
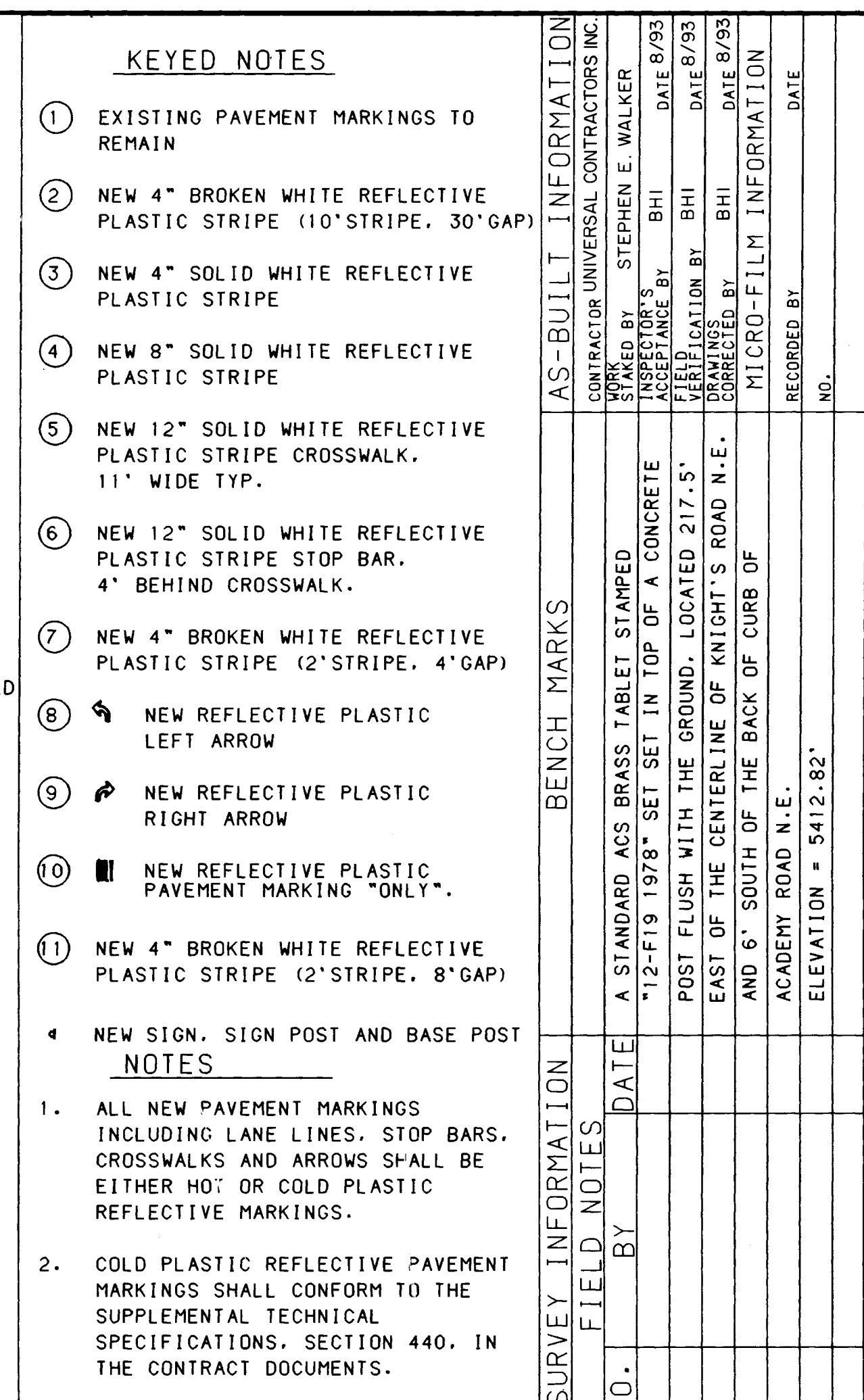
TMC = TOP OF MEDIAN CURB

TP = TOP OF PAVEMENT

FL = FLOW LINE



		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING					
SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS ROAD INTERSECTION PLAN WYOMING BLVD / ACADEMY BLVD							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	<i>B. B. Barclay</i>	2-12-93	WATER	<i>HA GSK</i>	2-17-93		
TRANSPORTATION	<i>G. G. Galt</i>	2-17-93	WASTE WATER		2-17-93		
HYDROLOGY	<i>G. G. Galt</i>	2-17-93					
DRAWING NO.		4555.91		MAP NO.		E-19	
				SHEET		12 OF 67	



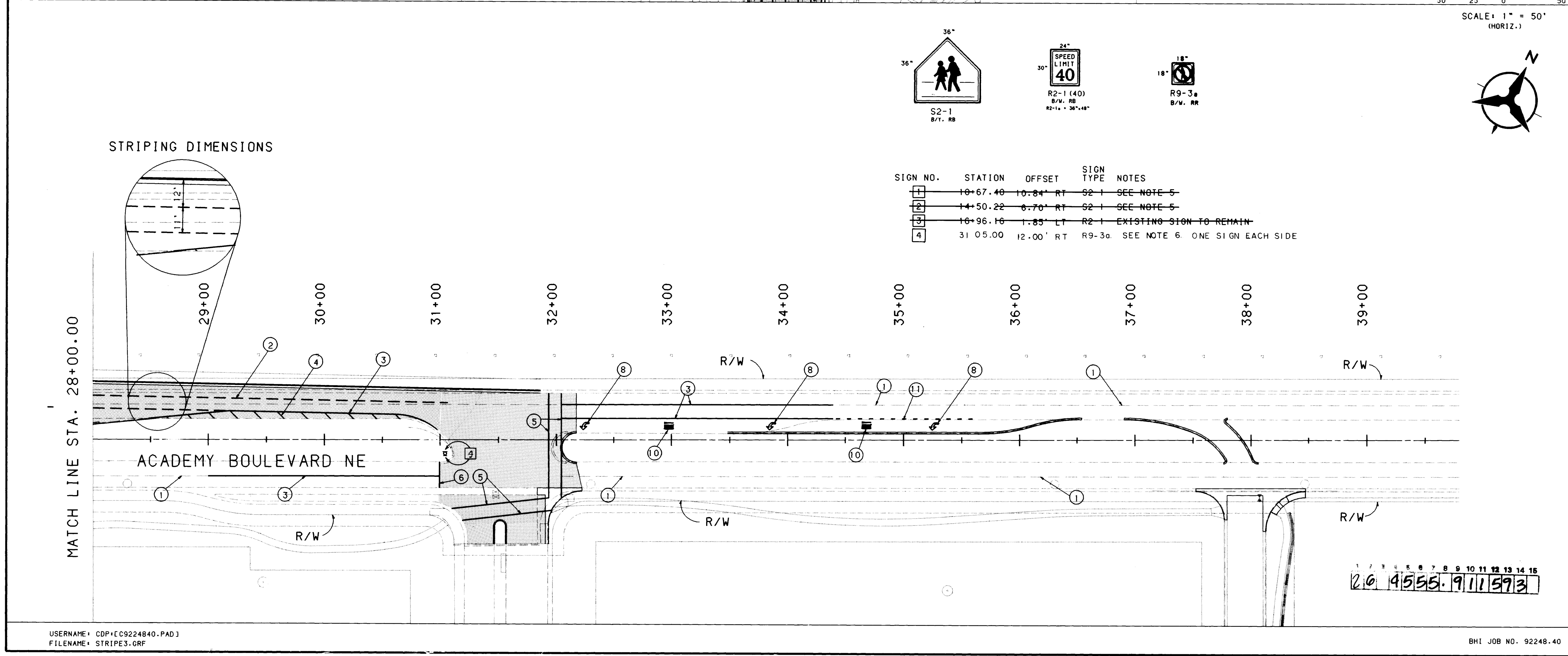
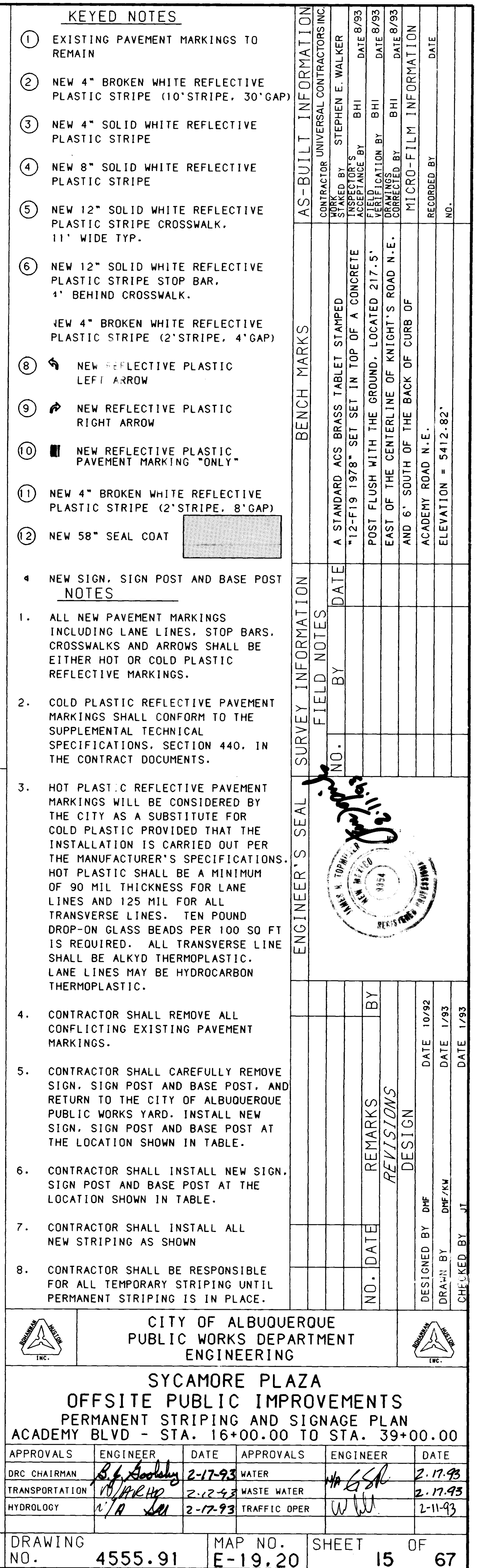


CHART TO DETERMINE POST SIZE

1046" THICK 	Post Size	H	H in feet												
			5	6	7	8	9	10	11	12	13	14	15	16	
			1 1/2" x 1 1/2"	4.9	4.1	3.5	3.0	2.7	2.4	2.2	2.0	1.9	1.7		
			1 3/4" x 1 3/4"	7.5	6.2	5.3	4.7	4.1	3.7	3.4	3.1	2.9	2.7		
			2" x 2"	10.5	8.8	7.5	6.6	5.8	5.3	4.8	4.4	4.0	3.8		
			2 1/4" x 2 1/4"	14.0	11.7	10.0	8.8	7.7	7.1	6.4	5.9	5.3	5.1		
1345" THICK 	Post Size	H	H in feet												
			5	6	7	8	9	10	11	12	13	14	15	16	
			2 3/8" x 2 3/8"	16.7	13.9	11.9	10.4	9.3	8.3	7.6	7.0	6.4	6.0	5.6	5.2
			2 1/2" x 2 1/2"	22.2	18.5	15.8	13.8	12.3	11.1	10.1	9.2	8.5	7.9	7.4	6.9

EXAMPLE:

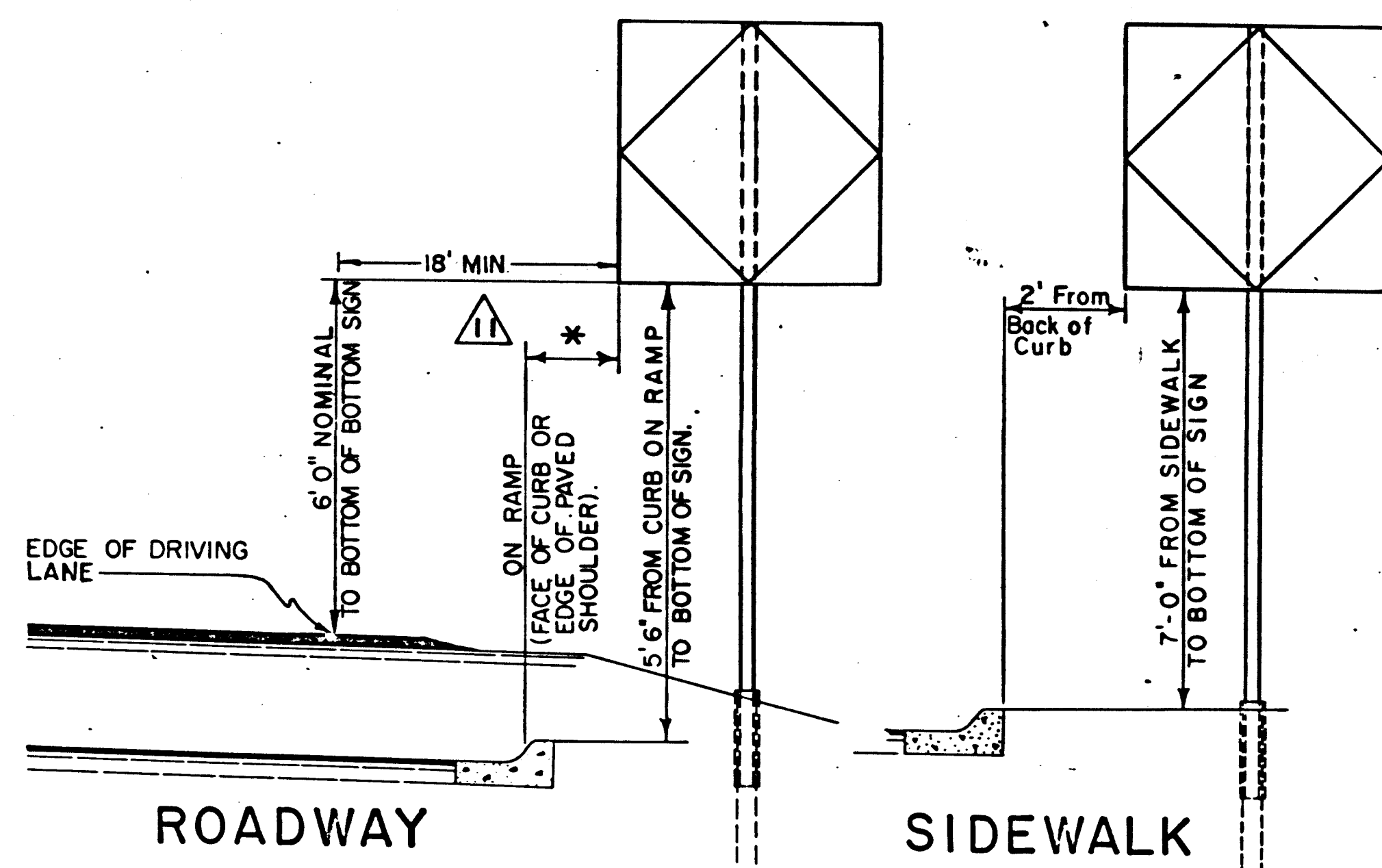
DETERMINE SIZE AND NUMBER OF POSTS TO USE WITH SIGN 4'x4' AREA = 16'.
DETERMINE DESIGN HEIGHT FROM ROADWAY CROSS SECTION IN CONJUNCTION WITH SIGN SIZE (DESIGN HEIGHT (H) IS FROM THE GROUND ELEVATION AT THE BASE OF THE LONGEST POST TO CENTER OF SIGN).

SOLUTION:

FROM ROADWAY CROSS SECTION, CLEARANCE TO BOTTOM OF SIGN = 9.5'
SIGN DEPTH IS 4'.
 $d/2 = 4/2 = 2$

DESIGN HEIGHT 11.5' SAY 12'
NUMBER OF POSTS (n) NEEDED FOR A=16' WOULD BE n=2 (NORMALLY NOT OVER 10 TO 12 SQ. FT. PER POST). SIGN AREA PER POST $A_n = 16/2 = 8$ PER POST.

ENTER CHART AT TOP WHERE H=12.0' PROCEED DOWNWARD TO AN AREA EQUAL TO OR GREATER THAN SIGN AREA PER POST. THEN PROCEED TO THE LEFT TO FIND THE REQUIRED POST SIZE THIS COMES OUT TO BE A 2 1/2" x 2 1/2", 10 GA. POST.
THE LENGTH OF THE LONGER POST WILL THEN BE THE 9.5' FROM GROUND LINE TO BOTTOM OF SIGN PLUS THE SIGN HEIGHT (5.0' IN THIS CASE) PLUS THE 1.5' IN THE GROUND FOR A TOTAL OF 16.0'. THE OTHER POST LENGTH WILL BE 16.0' MINUS THE DIFFERENCE "Δ" (IN THIS CASE 16.0'-0.4' OR 15.6')

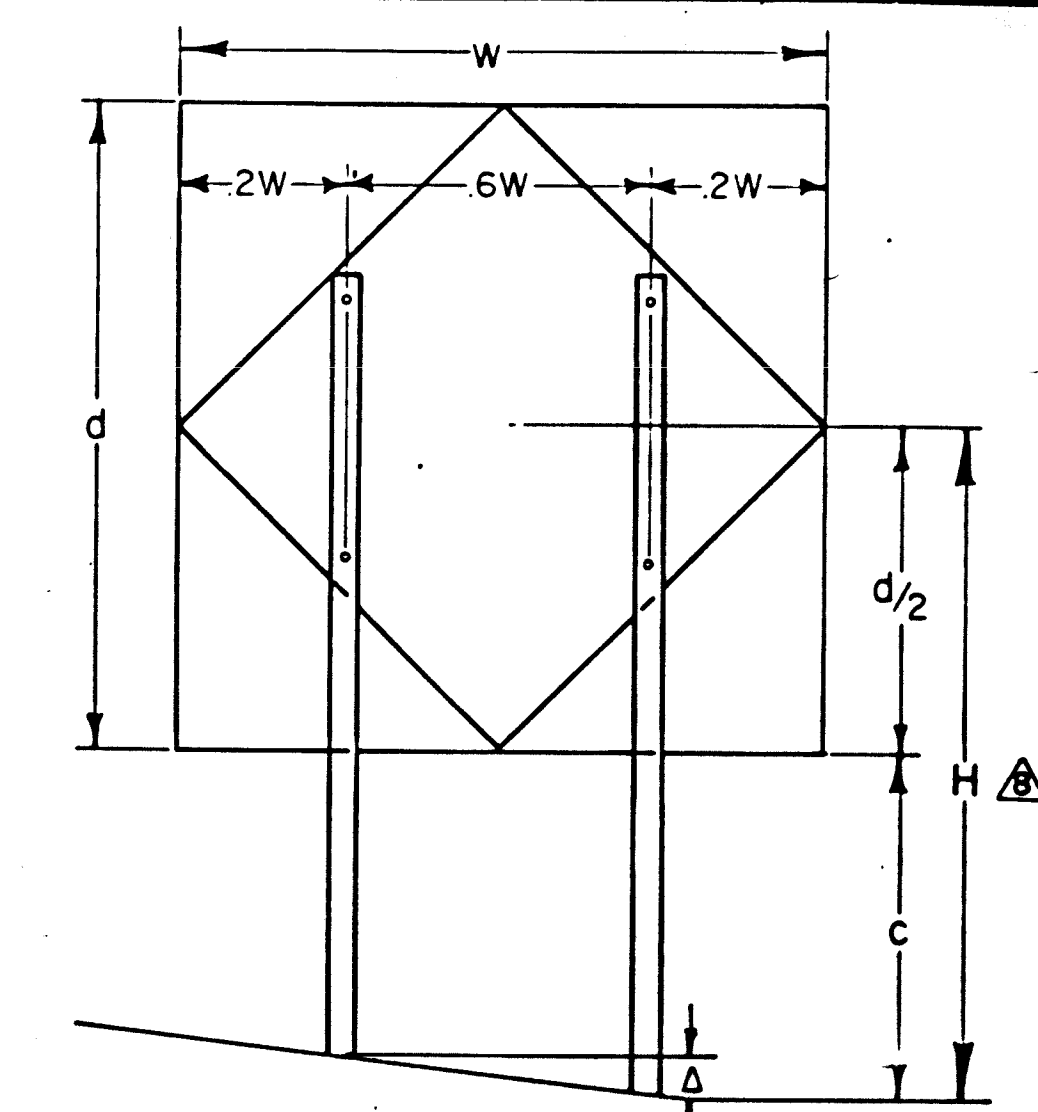


ROADWAY

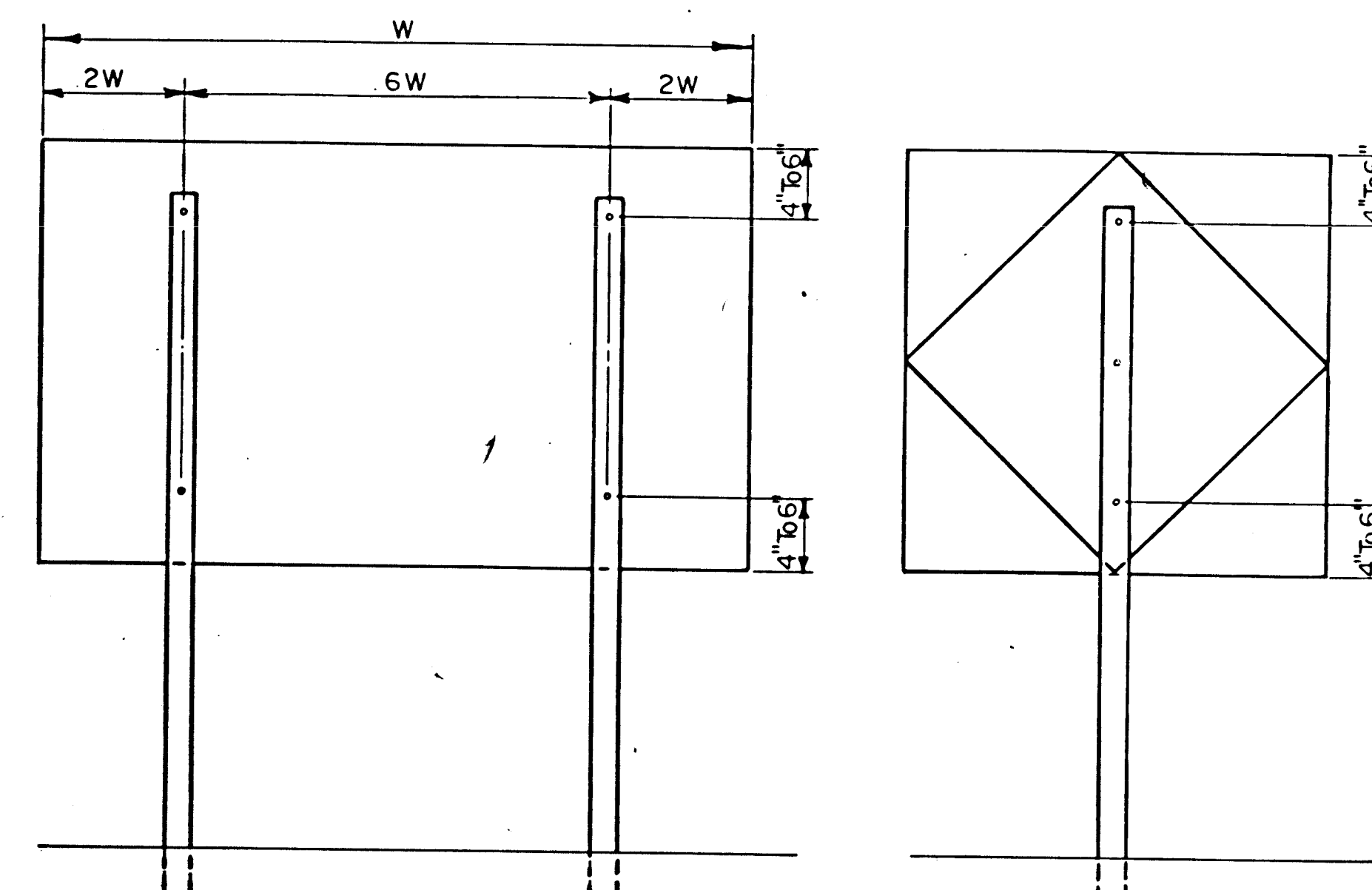
POST INSTALLATION

SIDEWALK

* 3' MIN. FROM FACE OF CURB OR
6' MIN. FROM EDGE OF PAVED SHOULDER



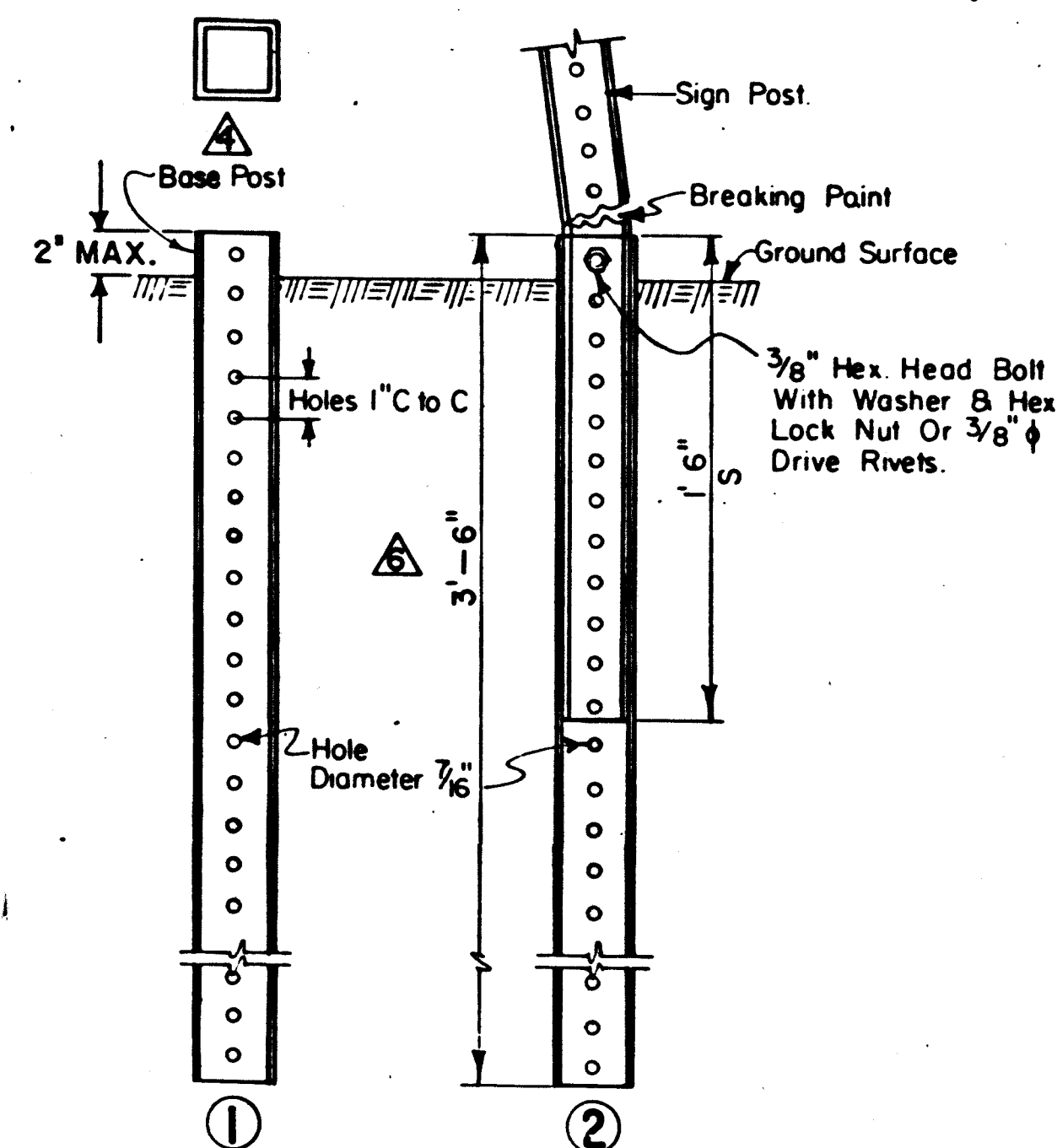
POST SIZE CALCULATION



POST SPACING & SIGN MOUNTING

NOTE: WHERE 3 POSTS ARE USED SPACING SHOULD BE
.15W - .35W - .35W - .15W.

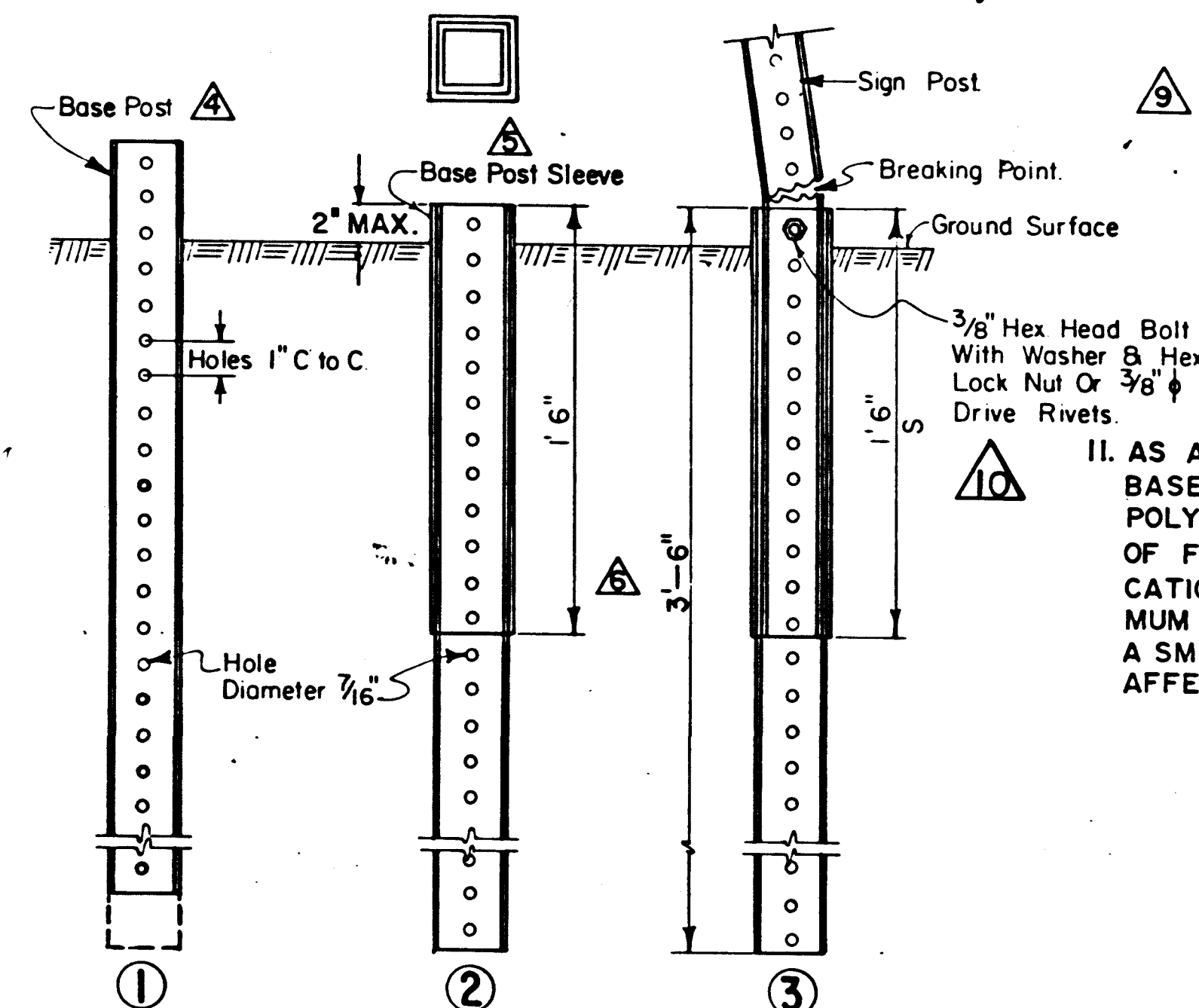
POSTS
0.1345" THICK (10 GA.)



GROUND INSTALLATION

1. DRIVE BASE POST UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR RIVET OR BOLT INSTALLATION.
2. INSERT SIGN POST 1'-6" AND FASTEN WITH 2 EACH 3/8" φ DRIVE RIVET OR A 3/8" φ BOLT.
3. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREA OF THE BREAKAWAY INFLUENCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FIELD DRILLED).

POSTS
0.1046" THICK (12 GA.)



GROUND INSTALLATION

1. DRIVE BASE POST TO WITHIN THREE OR FOUR INCHES OF SURFACE. BASE POST IS 2" x 2".
2. PRE-CUT BASE POST SLEEVE (of next size larger tube) SO THAT THE HOLES WILL MATCH AND STILL BE FLUSH WITH TOP OF THE BASE POST. DRIVE BASE POST SLEEVE UNTIL HOLES MATCH AS NOTED ABOVE, THEN DRIVE BOTH THE BASE POST SLEEVE AND THE BASE POST UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR BOLT CONNECTION.
3. INSERT SIGN POST 1'-6" FASTEN WITH 2 EACH 3/8" φ DRIVE RIVETS OR A 3/8" φ BOLT.
4. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREAS OF THE BREAKAWAY INFLUENCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FIELD DRILLED).

F.H.W.A. Region No.	STATE	SHEET	TOTAL SHEETS
6	NEW MEXICO		

NOTES:

1. MATERIALS AND WORKMANSHIP SHALL CONFORM TO NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM PERFORATED STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET, ALL HOLES TO BE 7/16" φ.
3. THE STEEL POSTS SHALL CONFORM TO COMMERCIAL QUALITY ASTM DESIGNATION A 446 GRADE A ZINC COATED (G 90) ASTM A 525. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 0.1046" THICK OR 0.1345" THICK. ROLL FORMED CARBON STEEL WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARFED TO AGREE WITH CORNER RADIUS. STANDARD OUTSIDE CORNER RADIUS SHALL BE 5/32" PLUS OR MINUS 1/64".
4. BOLTS AND NUTS SHALL BE CARBON STEEL A-307 OR STAINLESS STEEL A-193.

5. DRIVING CAPS MUST BE USED TO DRIVE POSTS 1'-6".

6. BASE POST SLEEVE IS REQUIRED WITH 0.1046" THICK POST, BUT NOT WITH 0.1345" THICK.

7. 3" x 3" x 4' 0" BASE POST OF 3/16" WALL THICKNESS TO BE USED WITH 2 1/2" x 2 1/2" 0.1345 POST.

8. POSTS SHALL HAVE A MINIMUM COLD FORMED YIELD STRESS OF 40,000 PSI.

9. DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 1976.
WIND LOAD: 19 LBS./SQ. FT. (70 MPH)
SOIL BEARING CAPACITY: 3 K/SQ. FT.

10. CARBON STEEL NUTS, BOLTS AND WASHERS SHALL BE HOT DIP GALVANIZED A-153, CLASS D, ZINC COATED A-164, TYPE LS (0.0005 THICKNESS), OR CADMIUM COATED A 165, TYPE OS (0.0003 THICKNESS).

11. AS AN ALTERNATE TO GALVANIZING, STEEL POSTS AND BASE POSTS MAY BE PAINTED WITH A GREEN MODIFIED POLYESTER PAINT MEETING THE COLOR REQUIREMENTS OF FS 595-A (COLOR NO. 14109). METHOD OF APPLICATION SHALL BE BY ELECTRODEPOSITION TO A MINIMUM 1 MIL THICKNESS. FINISHED POSTS SHALL HAVE A SMOOTH, UNIFORM FINISH FREE FROM DEFECTS AFFECTING STRENGTH OR APPEARANCE.

IDENT. NO.	DESCRIPTION	DATE BY
Δ 10	ADDED NOTE No. 11	8/6/83 TGM
Δ 9	REVISED NOTE No. 9	9/24/79 TM
Δ 8	CORRECTED LETTER REFERENCE	7-2478 TGM
Δ 7	ADDED LARGER POST SIZE TO CHART	2-2878 TGM
Δ 6	REV. BASE POST DIMENSION	125-77 T.M.
Δ 5	ANCHOR SLEEVE TO BASE POST SLEEVE	125-77 T.M.
Δ 4	SIGN POST ANCHOR TO BASE POST	125-77 T.M.
Δ 3	Rev. Note 4 & Add Note 10	6-6-77 J.G.
Δ 2	Rev. Note 4	3-3-77 T.M.
Δ 1	Rev. Offset Distance	5/14/81 T.M.

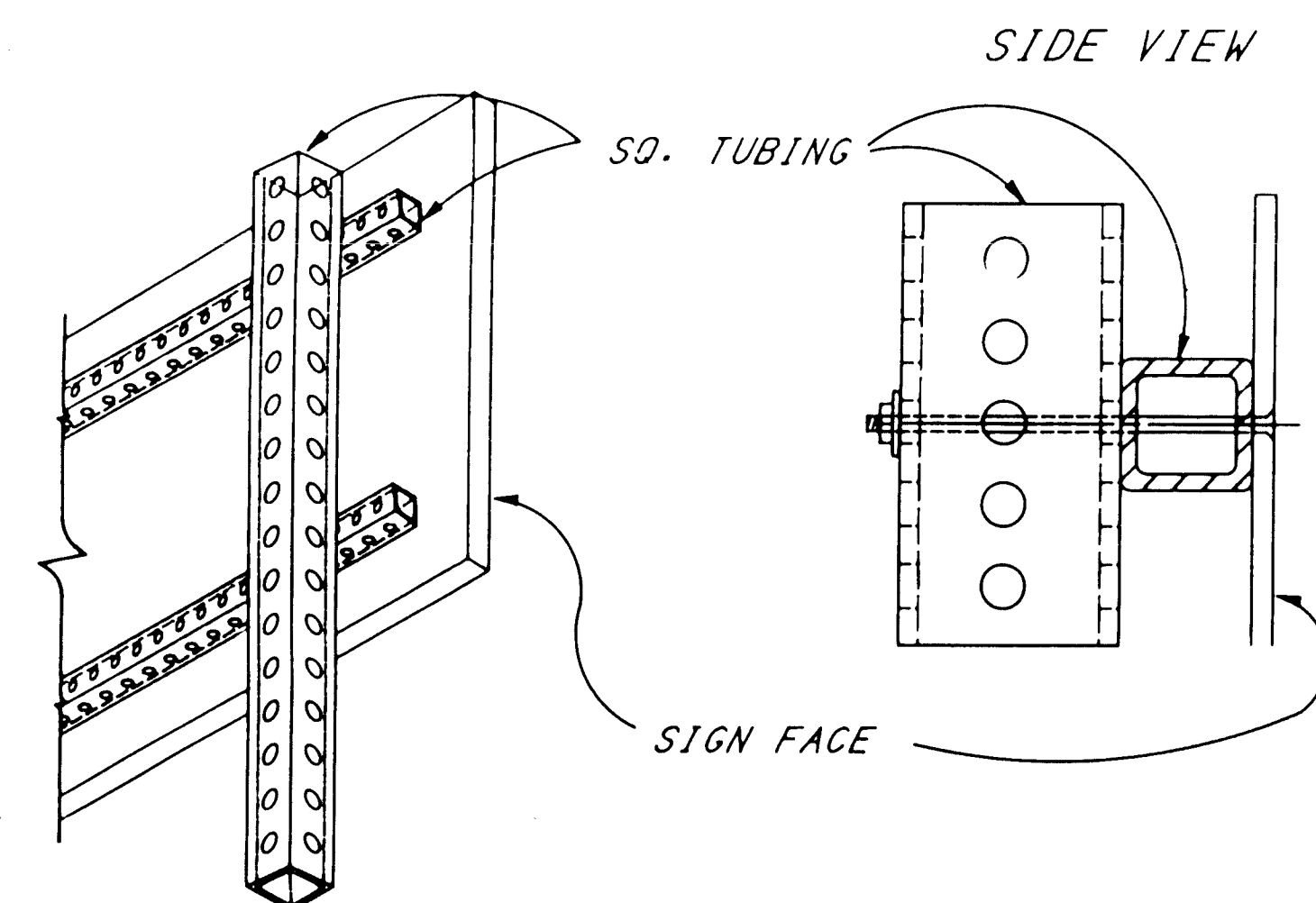
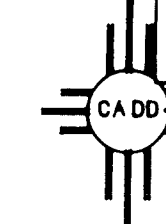
REVISIONS (OR CHANGE NOTICES)

NEW MEXICO
STATE HIGHWAY DEPARTMENT

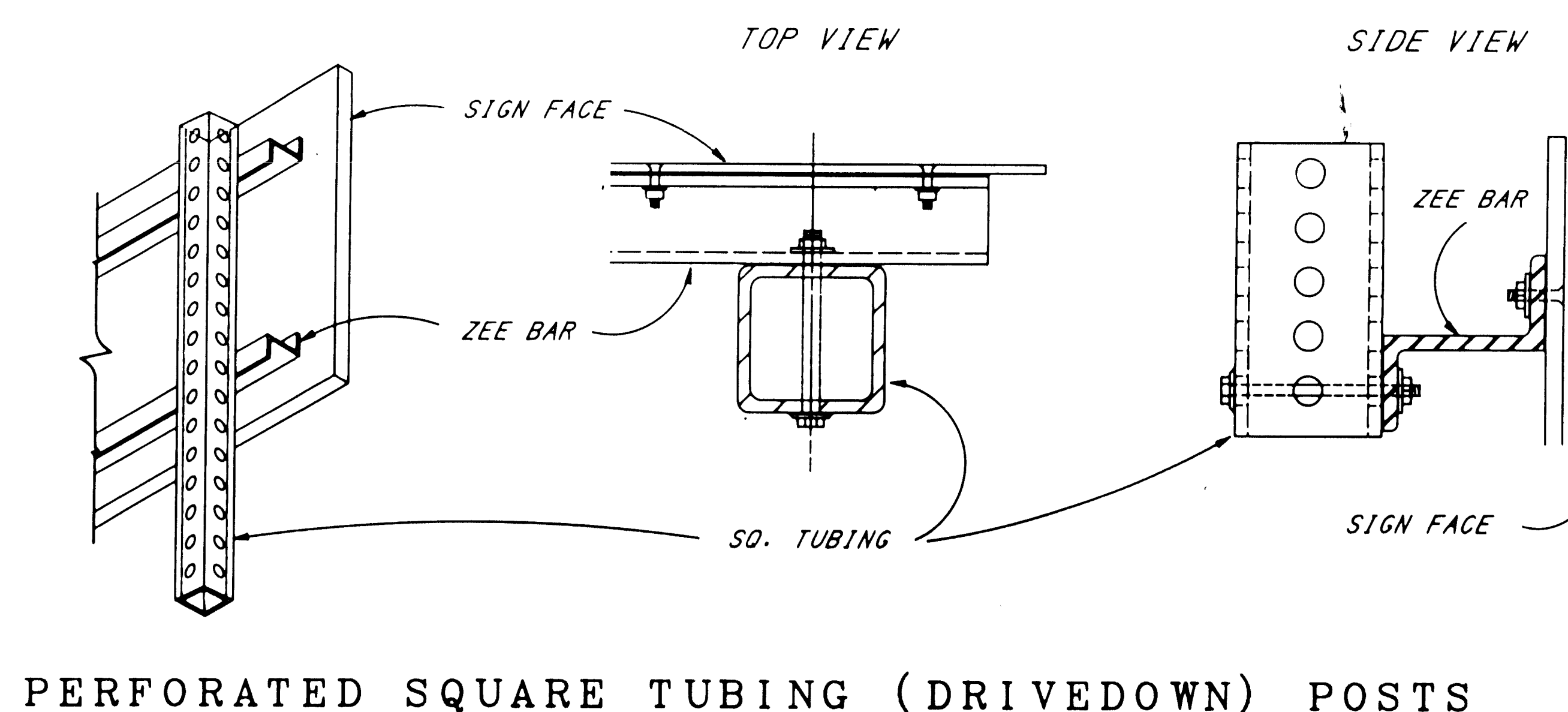
DESIGN LOADS FOR
SQUARE TUBING POSTS

DESIGNED BY JG	APPROVAL
DRAWN BY JP	RECOMMENDED - TRAFFIC ENGINEER DATE
CHECKED BY JG	APPROVED
	ENGINEER OF DESIGN DATE

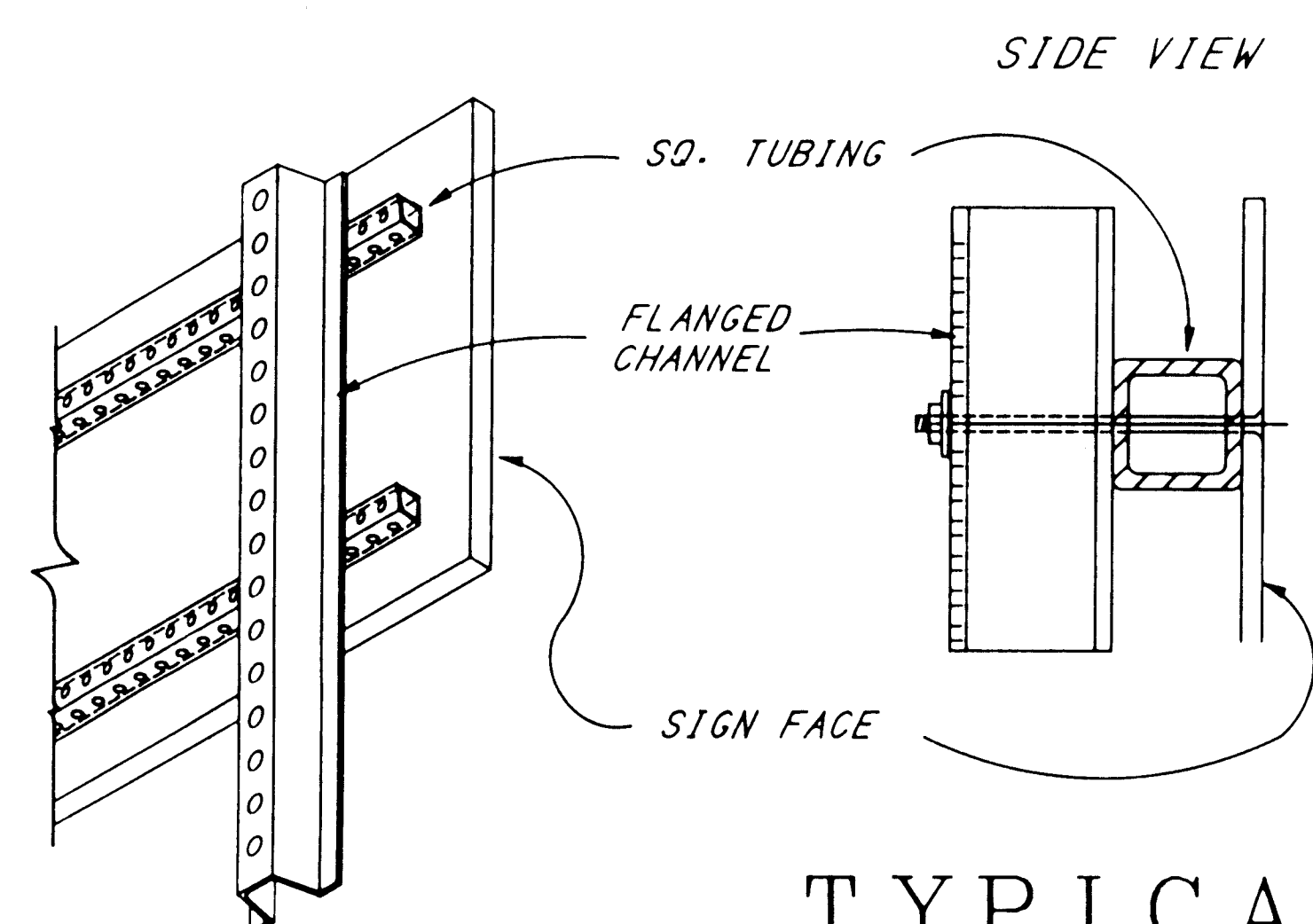
SERIAL Sn 75-1 SHEET 1 OF 9



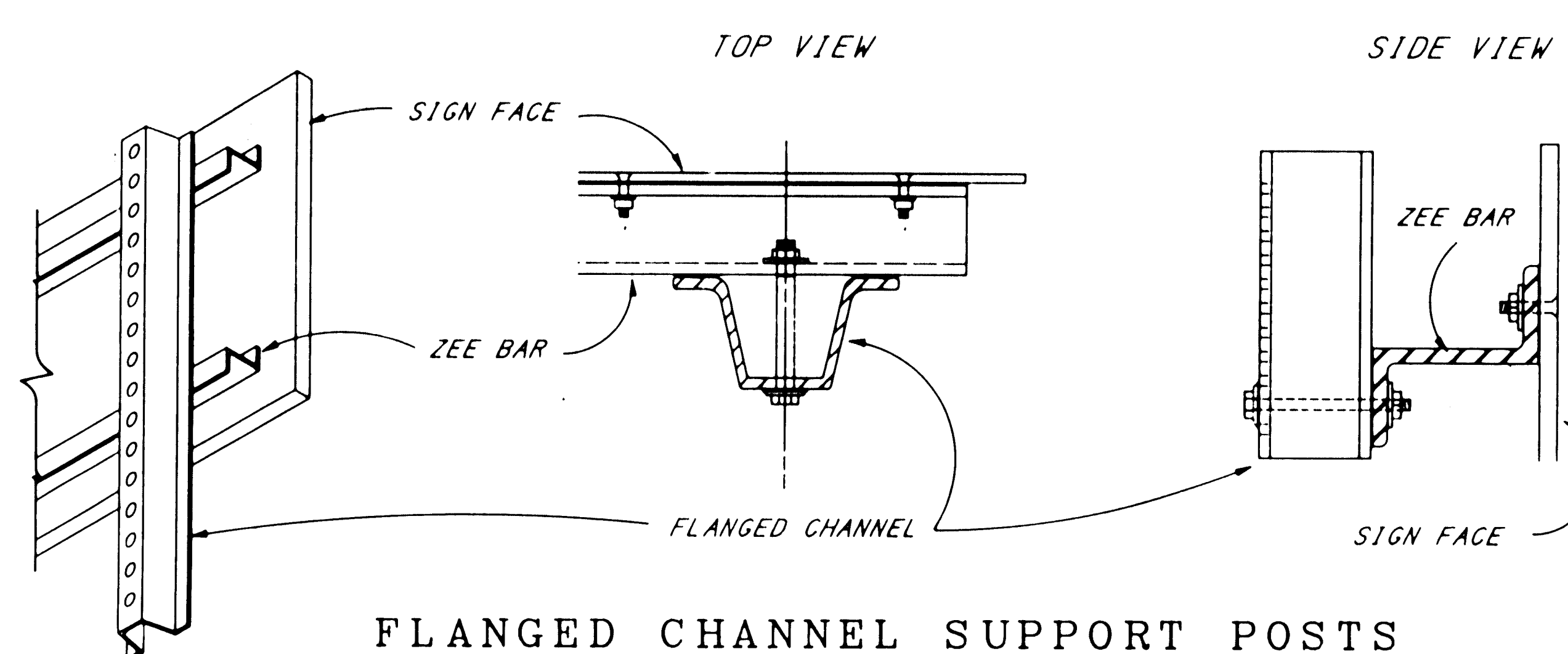
TYPICAL



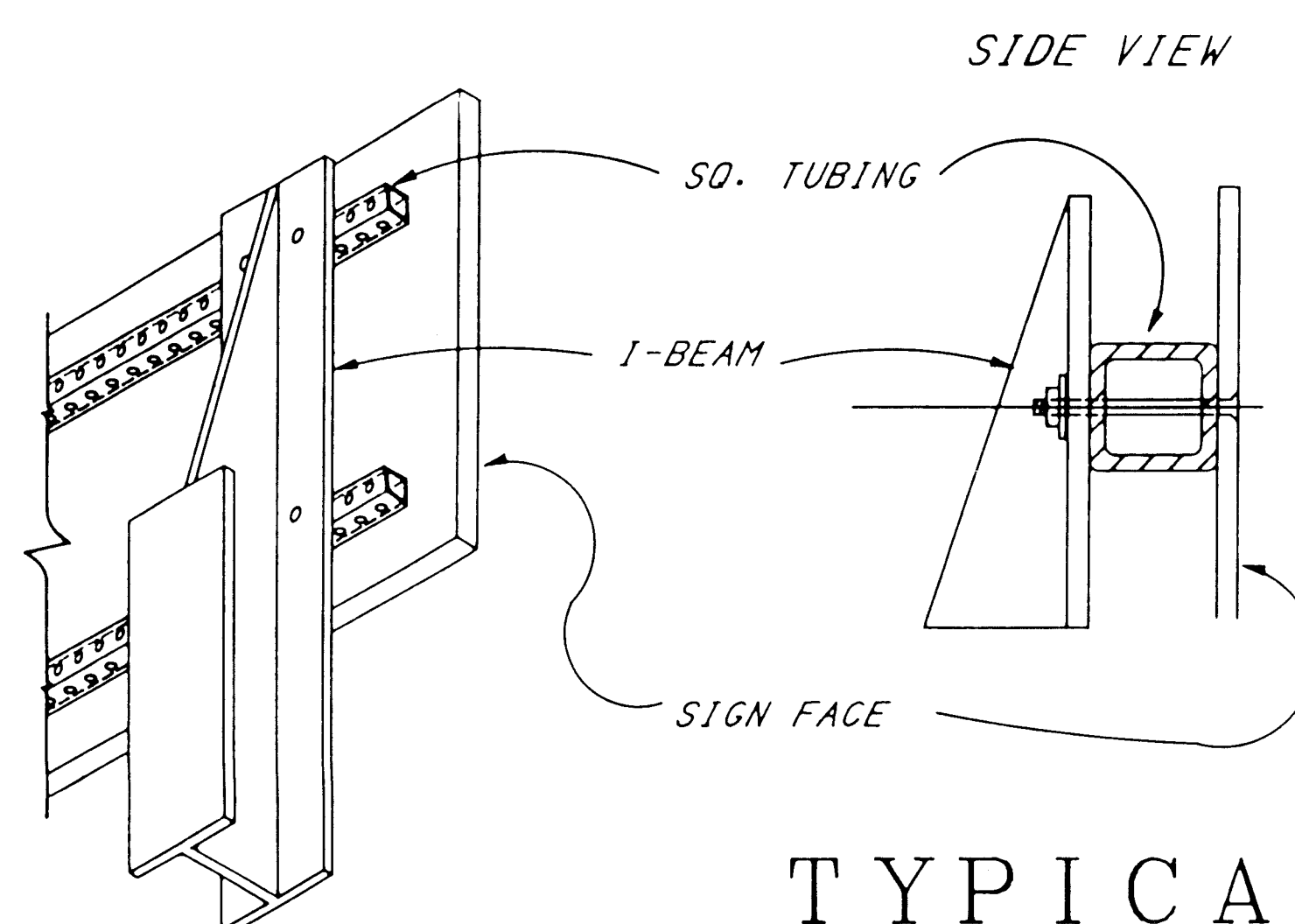
PERFORATED SQUARE TUBING (DRIVEDOWN) POSTS



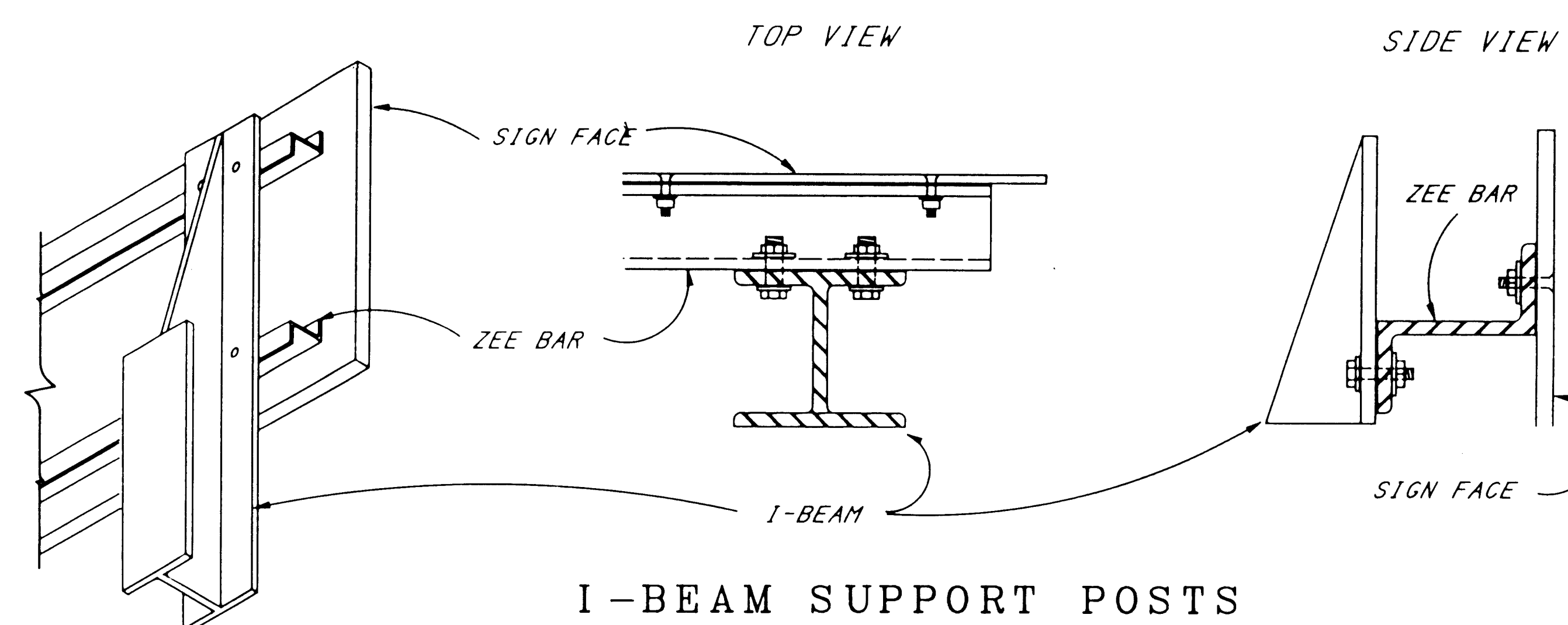
TYPICAL



FLANGED CHANNEL SUPPORT POSTS



TYPICAL



I-BEAM SUPPORT POSTS

GENERAL NOTES

1. BACKING ZEE SHALL BE ALUMINUM ALLOY 6061-T6. EACH ZEE SHALL BE PROVIDED WITH A 9/16" x 2" HORIZONTAL SLOT FOR EACH POST MOUNTING BOLT.
2. BACKING ZEE SHALL BE FASTENED TO THE SIGN BLANK WITH 1/4" - 20 x 3/4" FLAT HEAD COUNTER SUNK MACHINE SCREWS WITH NUT AND LOCK WASHER (CADMIUM OR GALVANIZED OR 2024-T4 ALUMINUM ALLOY) FASTENERS AT 9" +/- 1/2" INTERVALS.
3. BACKING ZEE WITH SIGN FACES SHALL BE FASTENED TO THE SIGN SUPPORT POST WITH 3/8" HEX. HEAD BOLT, NUT & TWO WASHERS GALVANIZED OR CADMIUM PLATED.
4. BACKING ZEE IS NOT NEEDED WHERE SIGN IS TO BE MOUNTED ON ONE POST AND IS APPROXIMATELY TEN SQUARE FEET OR LESS.
5. ALTERNATE BACKING MAY BE 1-1/2" PERFORATED SQUARE TUBING AND ASSOCIATED HARDWARE, DESCRIBED IN SERIAL SN-75-1.
6. SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.
7. BACKING ZEES SHALL BE 3"x2-3/4"x1/4" AT 2.33 LBS. PER FT. FOR 6061-T6 ALUMINUM.
8. EXPOSED BOLT HEADS ON THE FACE OF THE SIGN SHALL BE PAINTED OR REFLECTORIZED TO MATCH THE SURROUNDING COLOR.

3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY DEPARTMENT			
ALUMINUM PANEL SIGN DETAILS			
LAYOUT BY	APPROVAL	DATE	
DRAWN BY	RECOMMENDED	DATE	
CHECKED BY	APPROVED	DATE	
SERIAL SN-75-02 SHEET 1 OF 2			

GENERAL NOTES

- * ALL QUANTITIES SHOWN IN PLANT LIST AND IRRIGATION PARTS LIST ARE FOR CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER QUANTITY TAKE OFFS. IN SITUATIONS WHERE PLANS CONFLICT WITH QUANTITIES SHOWN IN PLANT LIST OR IRRIGATION PARTS LIST THE QUANTITIES IN THE PLANS SHALL GOVERN.
- * ALL PLANT MATERIALS SHALL MAINTAIN A 3' HORIZONTAL SETBACK FROM THE EDGE OF THE BACK OF CURB. A 10' VERTICAL CLEARANCE SHALL BE MAINTAINED WITHIN THE HORIZONTAL SETBACK.
- * ALL LANDSCAPE AND IRRIGATION WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS, DESIGN AND DEVELOPMENT DIVISION, PARKS AND GENERAL SERVICES DEPT., LATEST EDITION.
- * LANDSCAPE CONTRACTOR SHALL COORDINATE WITH PRIMARY GENERAL CONTRACTOR TO COORDINATE TRAFFIC CONTROL FOR LANDSCAPING WORK, AS NEEDED.
- * ALL CONCRETE AND OTHER WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.

PLANTING NOTES

GENERAL

- * SCOPE: WORK COVERED IN THESE NOTES CONSISTS OF THE PLANTING OF TREES, SHRUBS AND GROUNDCOVERS, SODDING, GRADING AND MULCHING, INCLUDING THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS AND PERFORMING ALL WORK IN CONNECTION WITH THE DRAWINGS AND SPECIFICATIONS.
- * CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN, ARE IN CONFLICT WITH PROPOSED CONTRACT.
- * EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR PLANT MATERIALS. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CALL N.M. ONE CALL AT 260-1990 FOR BLUE STAKING.

PROTECTION

- * PROTECTION OF PERSONS AND PROPERTY: CONTRACTOR IS TO BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS OR OTHER WARNING MEASURES AS NECESSARY. PROTECTION OF SHRUBS, TREES AND OTHER PLANT MATERIALS ARE ALSO TO BE INCLUDED.
- * PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS. ALL DAMAGES THAT MAY OCCUR DURING THIS PHASE OF WORK SHALL BE THE CONTRACTOR'S FINANCIAL RESPONSIBILITY.

GRADING

- * PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF THE CITY OF ALBUQUERQUE AND OTHER GOVERNING BODIES HAVING JURISDICTION.
- * FINE GRADING: SURFACE SHALL BE RAKED FREE OF STONES AND EXTRANEOUS MATERIALS AND DEBRIS TO A SMOOTH AND EVEN TEXTURE. ALL EXTRANEOUS MATTER WILL BE DISPOSED OF BY CONTRACTOR.

PLANTINGS

- * PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE. THE USE OF MATERIALS DIFFERING IN KIND, QUALITY OR SIZE FROM THAT SPECIFIED WILL BE ALLOWED ONLY AFTER THE OWNER'S REPRESENTATIVE IS CONVINCED THAT ALL MEANS OF OBTAINING THE SPECIFIED MATERIALS HAVE BEEN EXHAUSTED. AT THE TIME BIDS ARE SUBMITTED, THE CONTRACTOR IS ASSUMED TO HAVE LOCATED THE MATERIALS NECESSARY TO COMPLETE THE JOB AS SPECIFIED. ALL REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED NO LATER THAN 2 WEEKS PRIOR TO THE INITIATION OF WORK.

- * PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, 1980 EDITION, AS PUBLISHED BY THE COMMITTEE ON HORTICULTURAL STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- * ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
- * UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY OWNER'S REPRESENTATIVE, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY.
- * CONTAINER GROWN PLANT MATERIAL SHALL HAVE BEEN ESTABLISHED IN ITS DELIVERY CONTAINER FOR NOT LESS THAN SIX MONTHS, BUT FOR NOT MORE THAN TWO YEARS. ANY ROOTBOUND MATERIAL WILL NOT BE ACCEPTED.
- * BALLED AND BURLAPPED PLANT MATERIAL SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE. BROKEN OR LOOSE BALLS WILL BE REJECTED.
- * UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, ALL TREES SHALL HAVE A SINGLE TRUNK THAT IS STRAIGHT AND FREE OF "DOG-LEGS", "CROOKS", "Y-CROTCHES", OR OTHER DISFIGURING SHAPES. THE CENTRAL LEADER OF ALL TREES SHALL NOT HAVE BEEN PRUNED. TREES WITH DOUBLE LEADERS ARE NOT ACCEPTABLE, UNLESS SPECIFIED AS MULTI-TRUNKED.
- * ALL PLANT MATERIAL SHALL HAVE A UNIFORM SHAPE AROUND ITS COMPLETE CIRCUMFERENCE. PLANT MATERIAL WITH IRREGULAR BRANCHING PATTERNS OR WITH BRANCHING PATTERNS MORE HIGHLY DEVELOPED ON ONE SIDE THAN ON OTHER SIDES SHALL NOT BE ACCEPTABLE.
- * THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AT THE CONTRACTOR'S YARD PRIOR TO DELIVERY, DURING PLANTING AND AFTER PLANTING AT THE JOB SITE.
- * AT THE OPTION OF THE CONTRACTOR, THE OWNER'S REPRESENTATIVE WILL INSPECT PLANT MATERIAL AT A WHOLESALE NURSERY OF THE CONTRACTOR'S CHOICE PRIOR TO DELIVERY OF MATERIALS TO THE CONTRACTOR'S YARD. HOWEVER, AT NO ADDITIONAL EXPENSE TO THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAVEL EXPENSES INCURRED BY THE OWNER'S REPRESENTATIVE FOR ANY TRAVEL OUTSIDE OF THE ALBUQUERQUE METROPOLITAN AREA.
- * THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
- * ALL PLANTING BEDS SHOWN ON PLANS SHALL BE MULCHED. NO BEDS WILL BE LEFT UNCOVERED OR NOT TOP DRESSED, UNLESS OTHERWISE SPECIFIED.
- * ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE GUARANTEED FOR THE PERIOD OF ONE FULL YEAR BEGINNING ON THE DATE OF FINAL CONTRACT ACCEPTANCE.

IRRIGATION NOTES

GENERAL

- * WORK UNDER THIS SECTION CONSISTS OF INSTALLING A COMPLETE UNDERGROUND IRRIGATION SYSTEM AS SHOWN ON THESE PLANS, DETAILS AND SPECIFICATIONS. THE CONTRACTOR PERFORMING THIS WORK SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND PERMITS NECESSARY FOR THE COMPLETION OF THE IRRIGATION SYSTEM, EXCEPT FOR THOSE COMPONENTS SPECIFIED TO BE FURNISHED BY OTHERS.
- * THE CONTRACTOR SHALL BE FAMILIAR WITH THESE PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE OF ANY ITEMS THAT ARE IN CONFLICT WITH THE PROPOSED CONTRACT.
- * EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR IRRIGATION LINES AND EQUIPMENT. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO TRENCHING. CALL N.M. ONE CALL AT 260-1990 FOR BLUE STAKING.
- * ALL PLANT MATERIALS SHALL BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEMS AS PER PLANS, DETAILS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED ON THE DRAWING.
- * WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF PIPING, BUBBLERS AND DRIP EMITTERS, THEY SHALL BE ADJUSTED AND/OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITHOUT EXCESSIVE OVERFLOW.
- * PLANS ARE DIAGRAMMATIC AND APPROXIMATE DUE TO SCALE OF DRAWINGS. ALL VALVES SHALL BE LOCATED IN PLANTING AREAS OR SODDED AREAS WHERE SHOWN AND ALL PIPING SHALL BE INSTALLED PRIOR TO LANDSCAPING OR PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.
- * COMPLY WITH REQUIREMENTS OF THE UNIFORM PLUMBING CODE AND CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND ANY OTHER GOVERNMENTAL BODIES HAVING JURISDICTION.
- * ALL BACKFILLING SHALL BE CLEAN MATERIAL FROM EXCAVATION. BACKFILLED TRENCH IS TO BE EVEN WITH EXISTING GRADES AFTER COMPACTION.
- * TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO 85% PROCTOR DENSITY.
- * ALL TRENCHING AND EXCAVATION WORK SHALL BE PERFORMED WITH DUE CARE AND CAUTION IN THE VICINITY OF THE PVC LINER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE.

COMPONENTS AND PRODUCTS

- * ALL COMPONENTS INSTALLED AS THE UNDERGROUND IRRIGATION SYSTEM ARE TO BE NEW AND IN GOOD WORKING ORDER AND WITHOUT FLAWS UNLESS OTHERWISE INDICATED ON THE PLANS, DETAILS AND SPECIFICATIONS.
- * IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNIQUES TO BE USED FOR INSTALLATION, THEN THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS RECOMMENDED BY THE MANUFACTURER.
- * ALL PLANT MATERIALS INSTALLED SHALL HAVE THE AUTOMATIC IRRIGATION SYSTEM FULLY OPERABLE AT THE TIME OF PLANT INSTALLATION.

WARRANTY AND MAINTENANCE

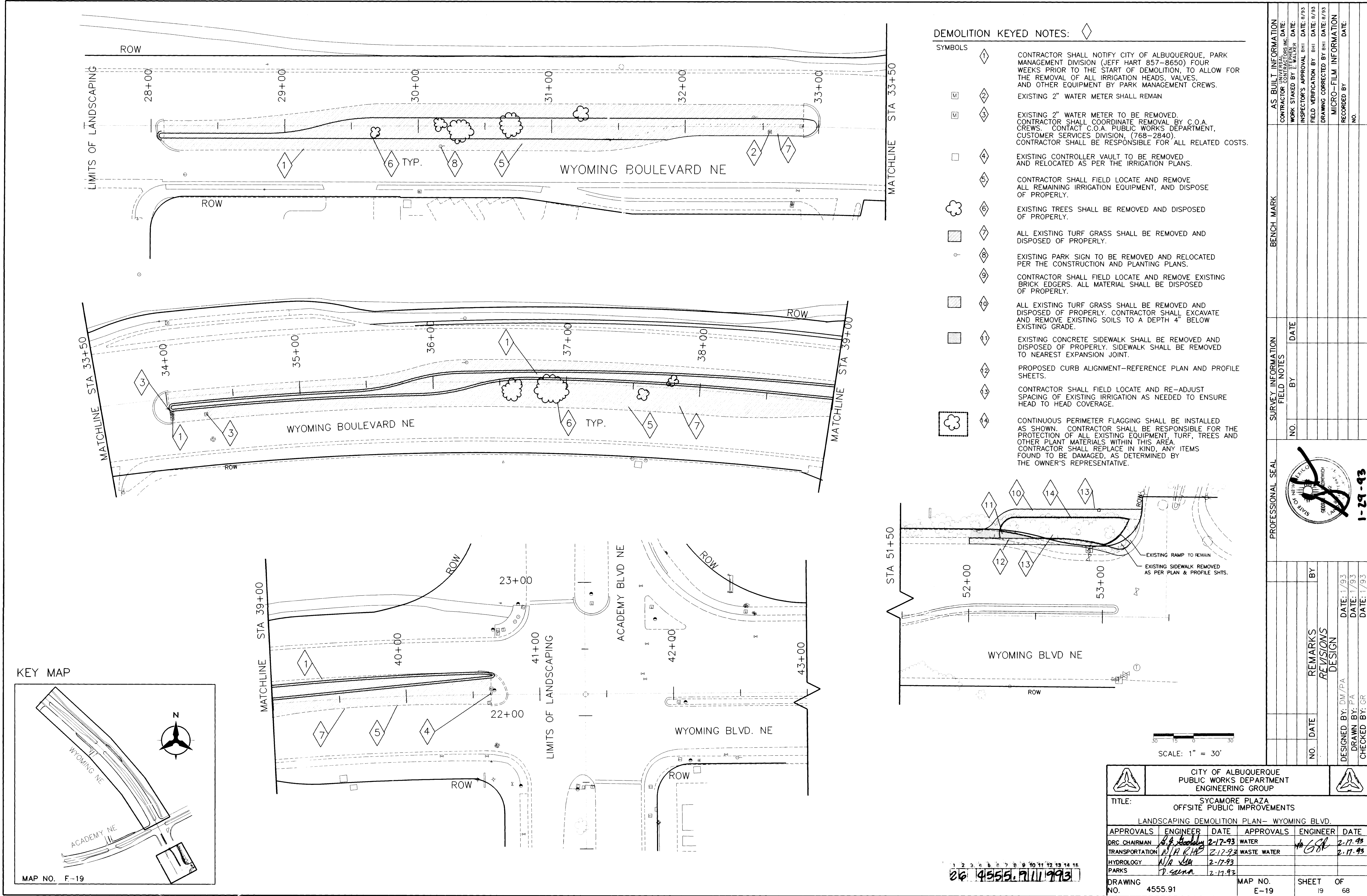
- * THE CONTRACTOR SHALL FURNISH A CERTIFICATE OF WARRANTY AND A GUARANTEE OF WORK AND MATERIALS FOR A ONE-YEAR PERIOD FROM DATE OF FINAL ACCEPTANCE. FINAL PAYMENT FOR THE SYSTEM SHALL NOT BE MADE UNLESS THIS CERTIFICATE IS PRESENTED TO THE OWNER.
- * THE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM, IN SATISFACTORY WORKING ORDER, DURING THE TIME OF CONTRACT WORK.
- * THE CONTRACTOR SHALL BE LIABLE FOR ANY LOSS OR DAMAGE TO ANY WORK OR MATERIALS, SUPPLIES AND EQUIPMENT ON THE JOB SITE CAUSED BY THE CONTRACTOR, ITS EMPLOYEES OR ANY OTHER UNFORESEEN CAUSE UNTIL FINAL ACCEPTANCE OF PROJECT WITH THE OWNER'S REPRESENTATIVE AND THE CITY OF ALBUQUERQUE.

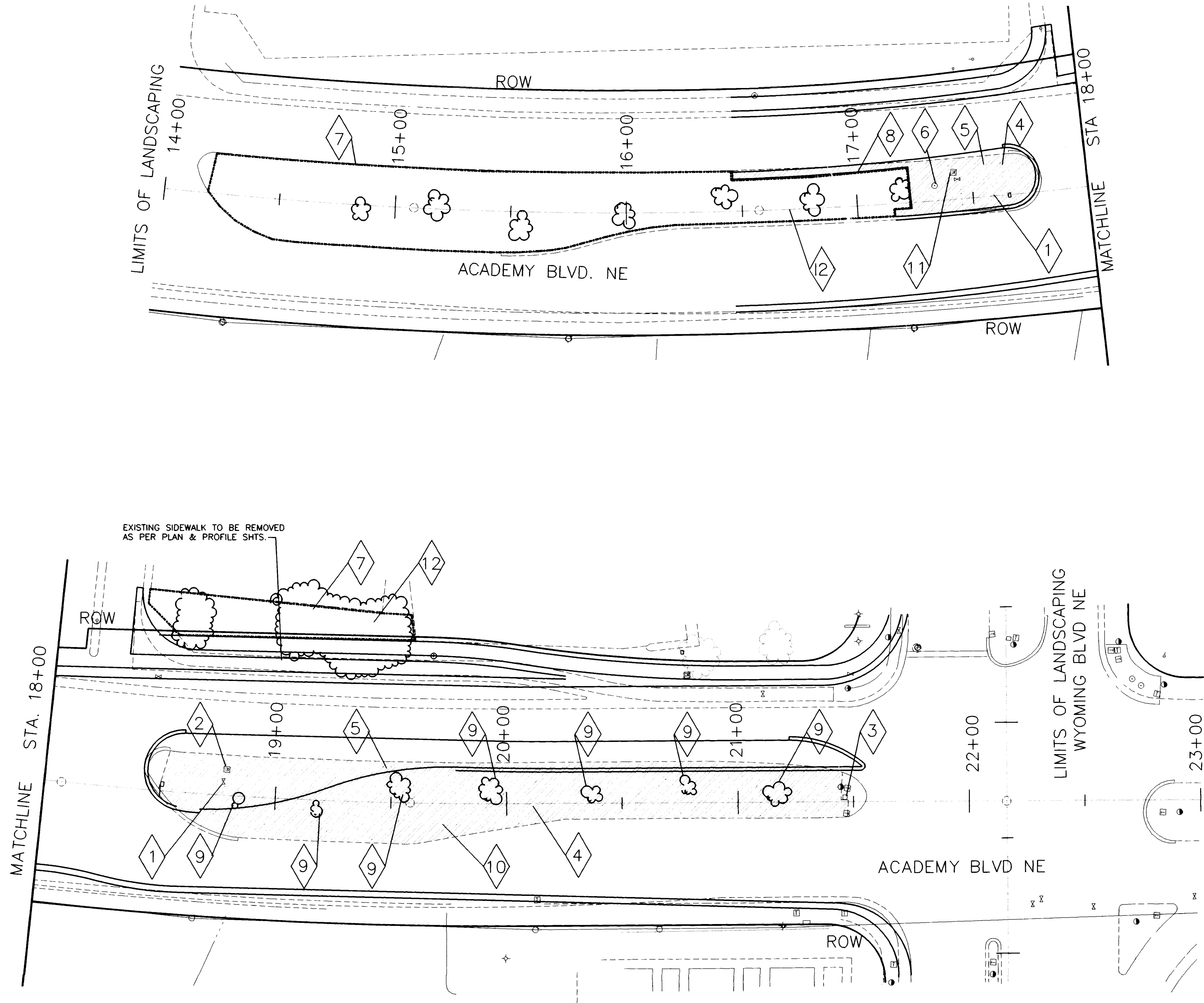
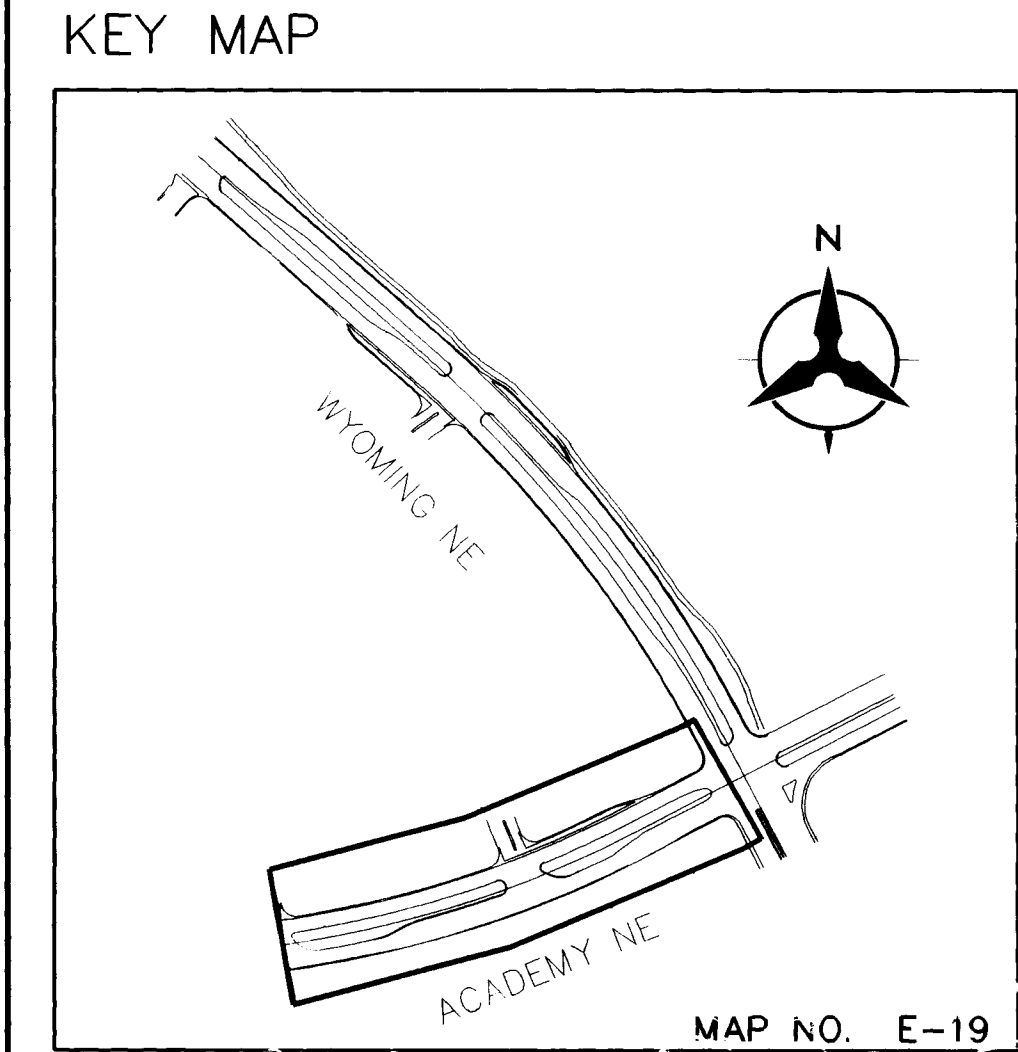
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CONTRACTOR	CONTRACTOR'S INFORMATION	NO.	BY	DATE	NO.	BY	DATE
WORK STAKED BY	DATE						
INSPECTOR'S APPROVAL	DATE	REMARKS					
FIELD VERIFICATION BY	DATE	REVISIONS					
DRAWING CORRECTED BY	DATE	DESIGN					
MICRO-FILM INFORMATION	DATE	DESIGNED BY: DM/PA					
RECORDED BY	DATE	DRAWN BY: PA					
NO.	NO.	CHECKED BY: GR					

1-29-93

						CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP																	
TITLE:												SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS LANDSCAPING- GENERAL NOTES											
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE																		
DRC CHAIRMAN	<i>S.A. Boudley</i>	2-17-93	WATER																				
TRANSPORTATION	<i>N.A. Ellis</i>	2-17-93	WASTE WATER	<i>N.A. Ellis</i>	2-17-93																		
HYDROLOGY	<i>N.A. Ellis</i>	2-17-93																					
PARKS	<i>T. Gunn</i>	2-17-93																					
DRAWING NO.	4555.91					MAP NO.	E-19					SHEET	OF 68										

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DEMOLITION KEYED NOTES:

- SYMBOLS
- 1 CONTRACTOR SHALL NOTIFY CITY OF ALBUQUERQUE, PARK MANAGEMENT DIVISION (JEFF HART 857-8650) FOUR WEEKS PRIOR TO THE START OF DEMOLITION, TO ALLOW FOR THE REMOVAL OF ALL IRRIGATION HEADS, VALVES AND OTHER EQUIPMENT BY PARK MANAGEMENT CREWS.
 - 2 EXISTING 2" WATER METER SHALL REMAIN.
 - 3 EXISTING CONTROLLER VAULT TO BE REMOVED AND RELOCATED AS PER IRRIGATION PLANS.
 - 4 CONTRACTOR SHALL FIELD LOCATE AND REMOVE ALL REMAINING IRRIGATION EQUIPMENT, AND DISPOSE OF PROPERLY.
 - 5 ALL EXISTING TURF GRASS SHALL BE REMOVED AND DISPOSED OF PROPERLY.
 - 6 EXISTING PARK SIGN TO BE REMOVED AND RELOCATED PER THE CONSTRUCTION AND PLANTING PLANS.
 - 7 CONTINUOUS PERIMETER FLAGGING SHALL BE INSTALLED AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING EQUIPMENT, TURF, TREES AND OTHER PLANT MATERIALS WITHIN THIS AREA. CONTRACTOR SHALL REPLACE IN KIND, ANY ITEMS FOUND TO BE DAMAGED, AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
 - 8 LIMITS OF EXISTING TURFGRASS TO BE REMOVED.
 - 9 CONTRACTOR SHALL NOTIFY CITY OF ALBUQUERQUE, PARK MANAGEMENT DIVISION (TOM ELLIS 857-8650) FOUR WEEKS PRIOR TO THE START OF DEMOLITION, TO ALLOW FOR THE REMOVAL OF ALL EXISTING TREES.
 - 10 CONTRACTOR SHALL FIELD LOCATE AND REMOVE ALL EXISTING CONCRETE EDGERS WITHIN THE MEDIAN AND DISPOSE OF PROPERLY.
 - 11 EXISTING 2" WATER METER TO BE REMOVED. CONTRACTOR SHALL COORDINATE REMOVAL BY C.O.A. CREWS. CONTACT C.O.A. PUBLIC WORKS DEPARTMENT, CUSTOMER SERVICES DIVISION. (768-2840) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED COSTS.
 - 12 CONTRACTOR SHALL FIELD LOCATE AND RE-ADJUST SPACING OF EXISTING IRRIGATION AS NEEDED TO ENSURE HEAD TO HEAD COVERAGE.

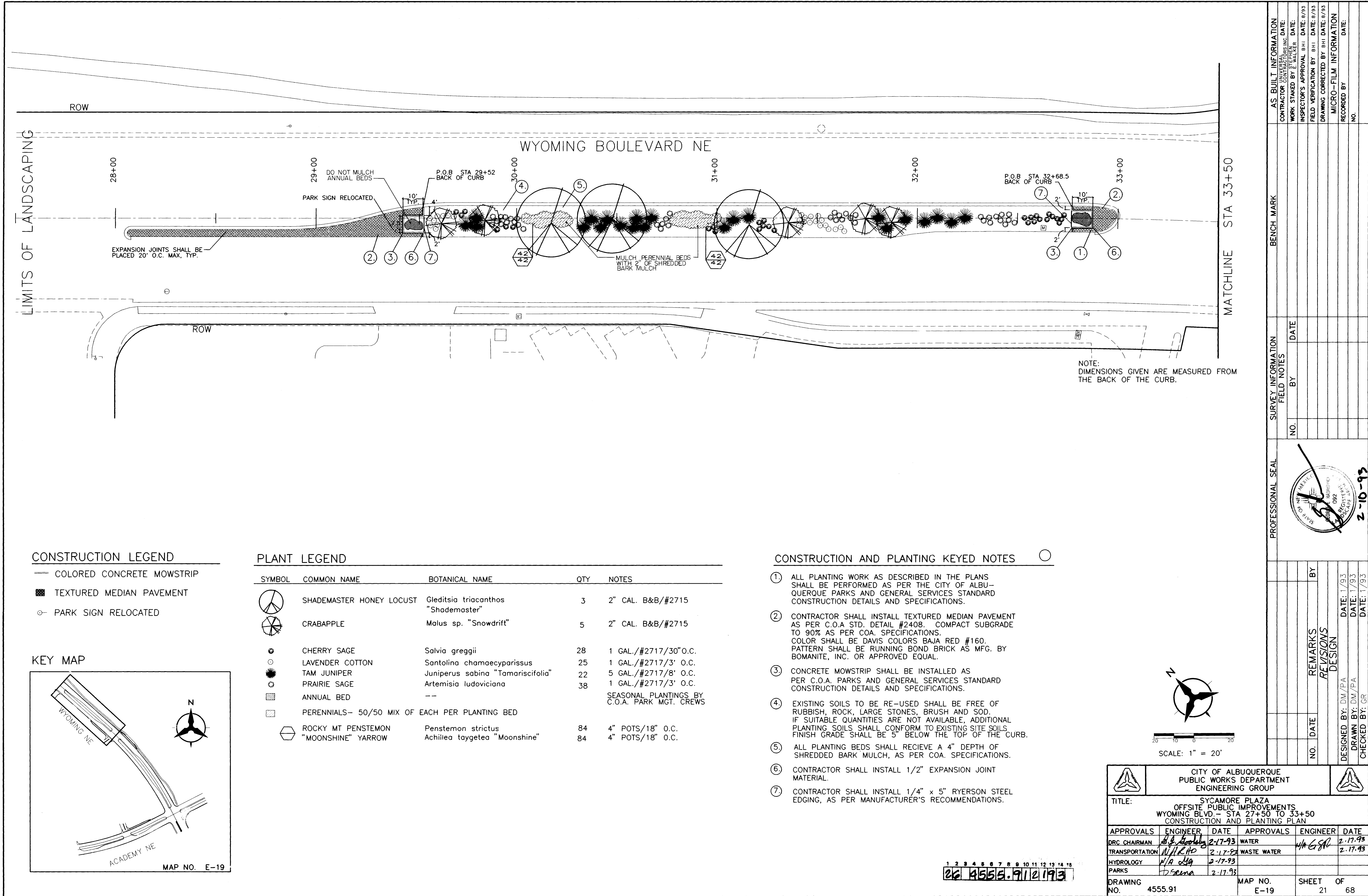
SCALE: 1" = 30'

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS LANDSCAPING DEMOLITION PLAN- ACADEMY BLVD.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	<i>B. A. Acosta</i>	2-17-93	WATER	<i>W. G. S.</i>	2-17-93
TRANSPORTATION	<i>N/A RHD</i>	2-17-93	WASTE WATER		2-17-93
HYDROLOGY	<i>N/A RHD</i>	2-17-93			
PARKS	<i>TD SCMA</i>	2-17-93			
DRAWING NO.	4555.91		MAP NO.	E-19	SHEET 20 OF 68

AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION		PROFESSIONAL SEAL	
CONTRACTOR UNIVERSAL	DATE:			NO.	BY	DATE	
WORK STAKED BY: E. WALKER	DATE:						
INSPECTOR'S APPROVAL: BHI	DATE: 9/93						
FIELD VERIFICATION BY: BHI	DATE: 9/93						
DRAWING CORRECTED BY: BHI	DATE: 9/93						
MICRO-FILM INFORMATION							
RECORDED BY:	DATE:						
NO.							

DESIGNED BY: DM/PA DATE: 1/93
DRAWN BY: PA DATE: 1/93
CHECKED BY: GR DATE: 1/93

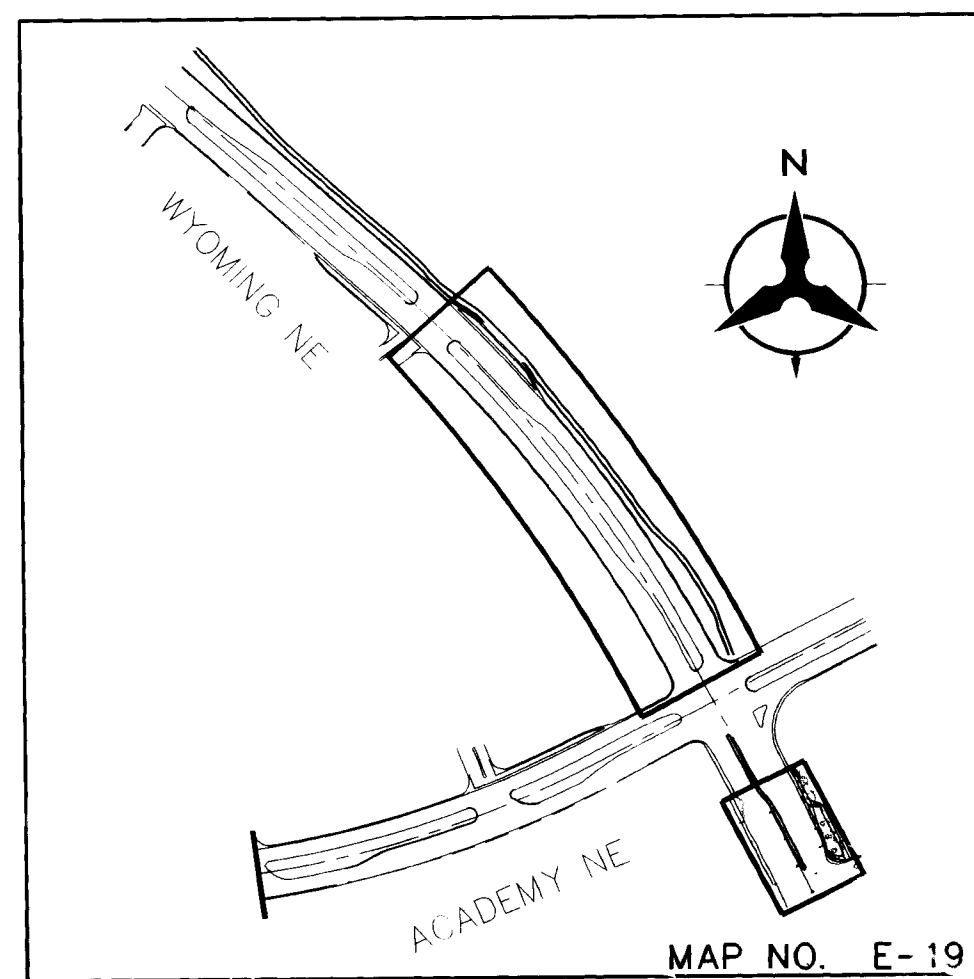
1-29-93



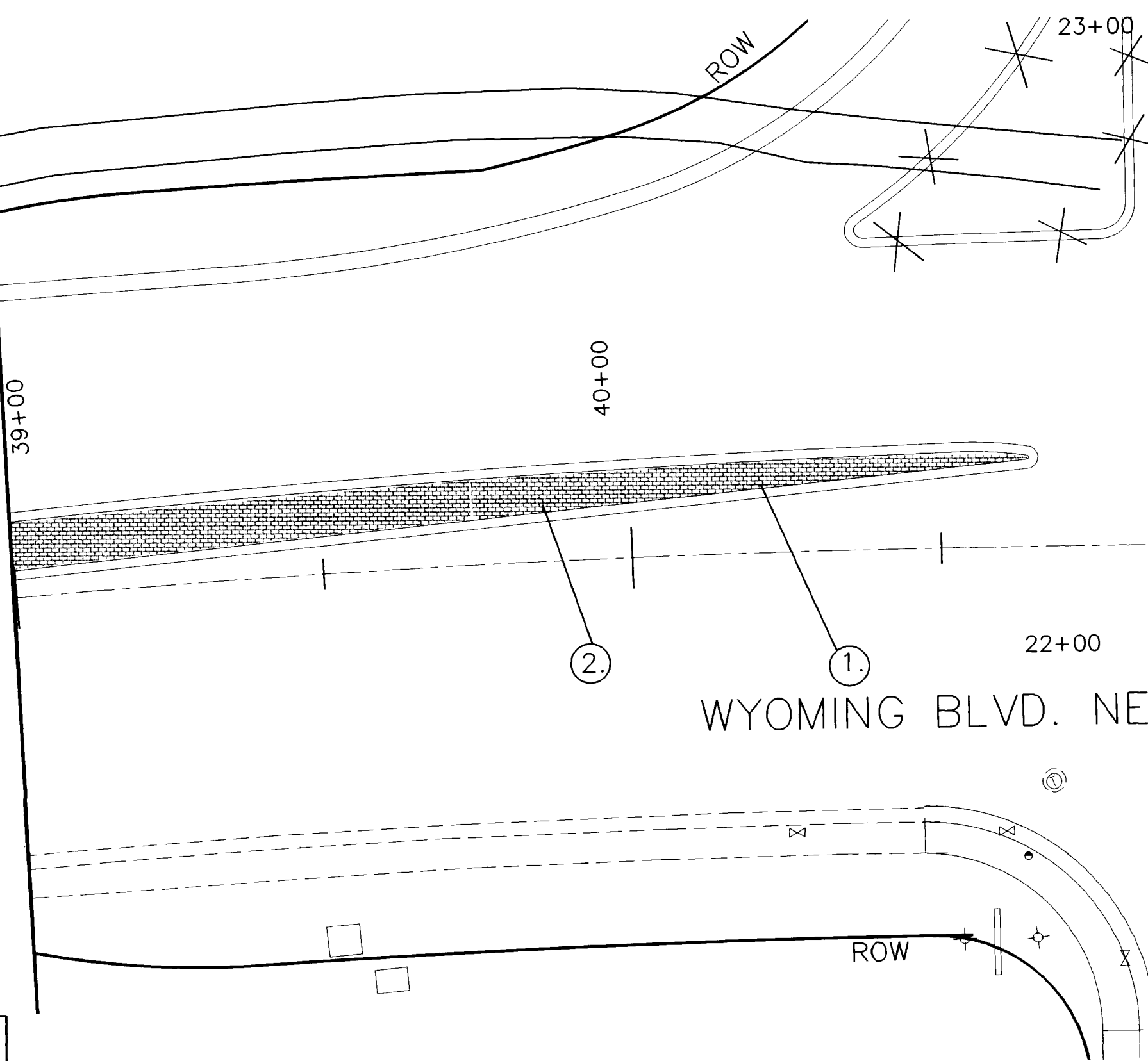
CONSTRUCTION LEGEND

TEXTURED MEDIAN PAVEMENT

KEY MAP



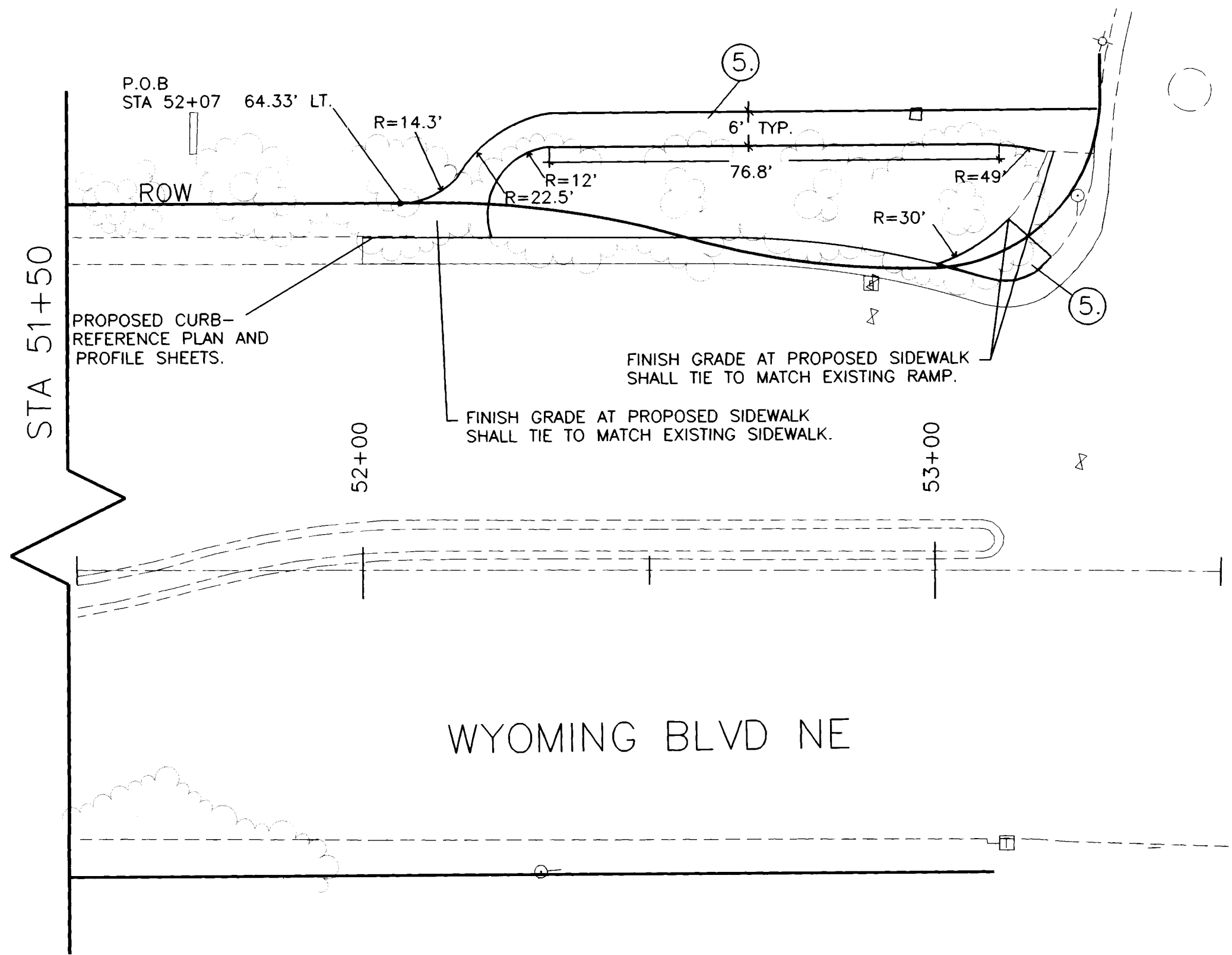
MATCHLINE STA 39+00



ACADEMY BLVD NE

STA 41+34

STA 51+50



LIMITS OF LANDSCAPING

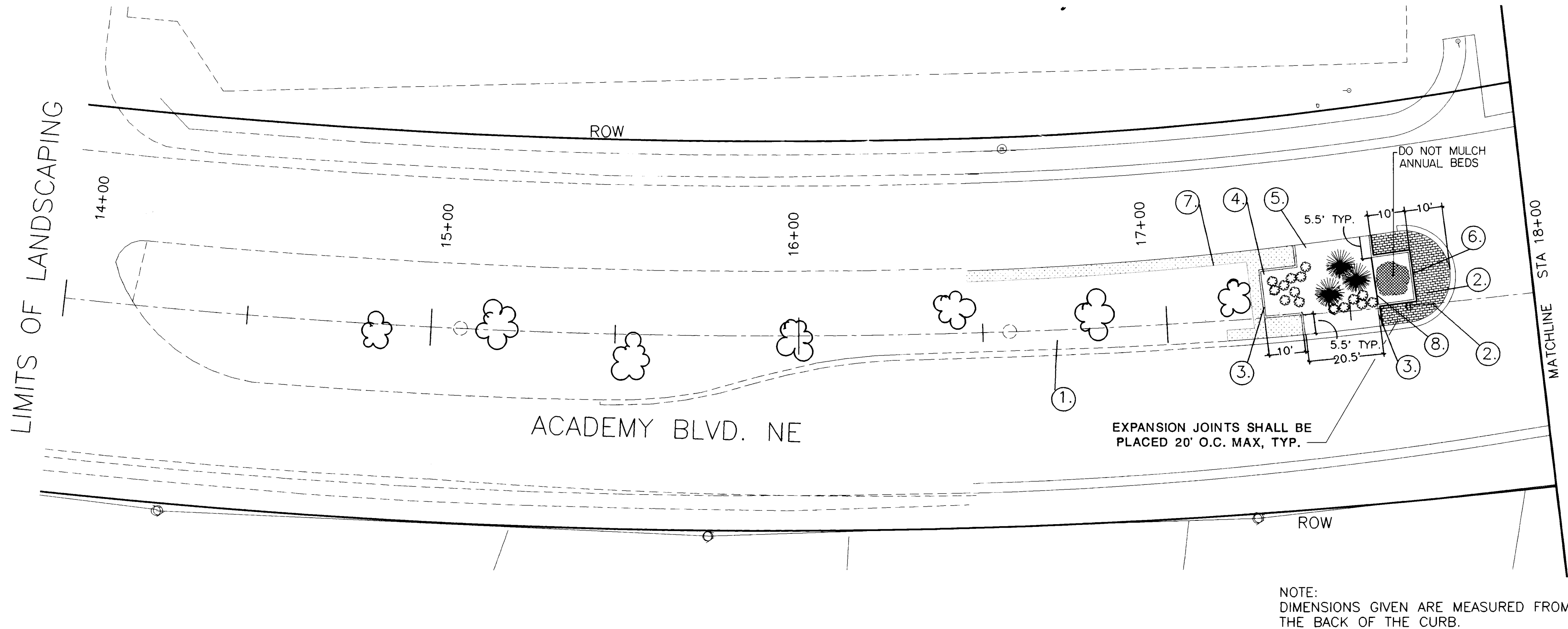
CONSTRUCTION AND PLANTING KEYED NOTES

- ALL WORK DESCRIBED IN THE PLANS SHALL BE PERFORMED AS PER THE CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS AND THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- CONTRACTOR SHALL INSTALL TEXTURED MEDIAN PAVEMENT AS PER C.O.A STD. DETAIL #2408. COLOR SHALL BE DAVIS COLORS BAJA RED #160. PATTERN SHALL BE RUNNING BOND BRICK AS MFG. BY ROMANITE, INC. OR APPROVED EQUAL.
- PORTLAND CEMENT CONCRETE MEDIAN PAVING SHALL BE INSTALLED AS PER C.O.A STD. DETAIL #2408, WITH SMOOTH FINISH. NO TEXTURING OR COLORING SHALL BE ADDED.
- CONTRACTOR SHALL INSTALL 1/2" EXPANSION JOINT MATERIAL.
- PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE INSTALLED AS PER C.O.A STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, STD DWG #2430. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE FOR FIELD VERIFICATION OF LAYOUT PRIOR TO INSTALLATION.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING BLVD.- STA 33+50 TO 53+50 CONSTRUCTION AND PLANTING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93			
PARKS	<i>[Signature]</i>	2-17-93			
DRAWING NO.	4555.91		MAP NO.	E-19	
			SHEET	22	OF 68

AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION		PROFESSIONAL SEAL		REVISIONS		DESIGNED BY: DM/PA		DATE: 1/93	
CONTRACTOR UNIVERSAL INC. DATE:				NO.	BY	DATE		NO.	BY	DATE	DRAWN BY: DM/PA	DATE: 1/93	
WORK STAKED BY E. WALKER DATE:											CHECKED BY: GR	DATE: 1/93	
INSPECTOR'S APPROVAL BHI DATE: 9/93													
FIELD VERIFICATION BY BHI DATE: 8/93													
DRAWING CORRECTED BY BHI DATE: 8/93													
MICRO-FILM INFORMATION													
RECORDED BY													
NO.													



CONSTRUCTION LEGEND

- CONCRETE MOWSTRIP
- TEXTURED MEDIAN PAVEMENT
- PARK SIGN RELOCATED

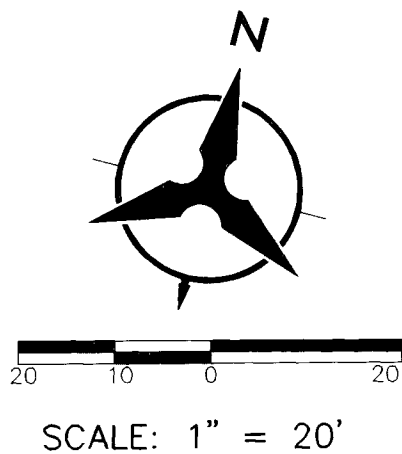
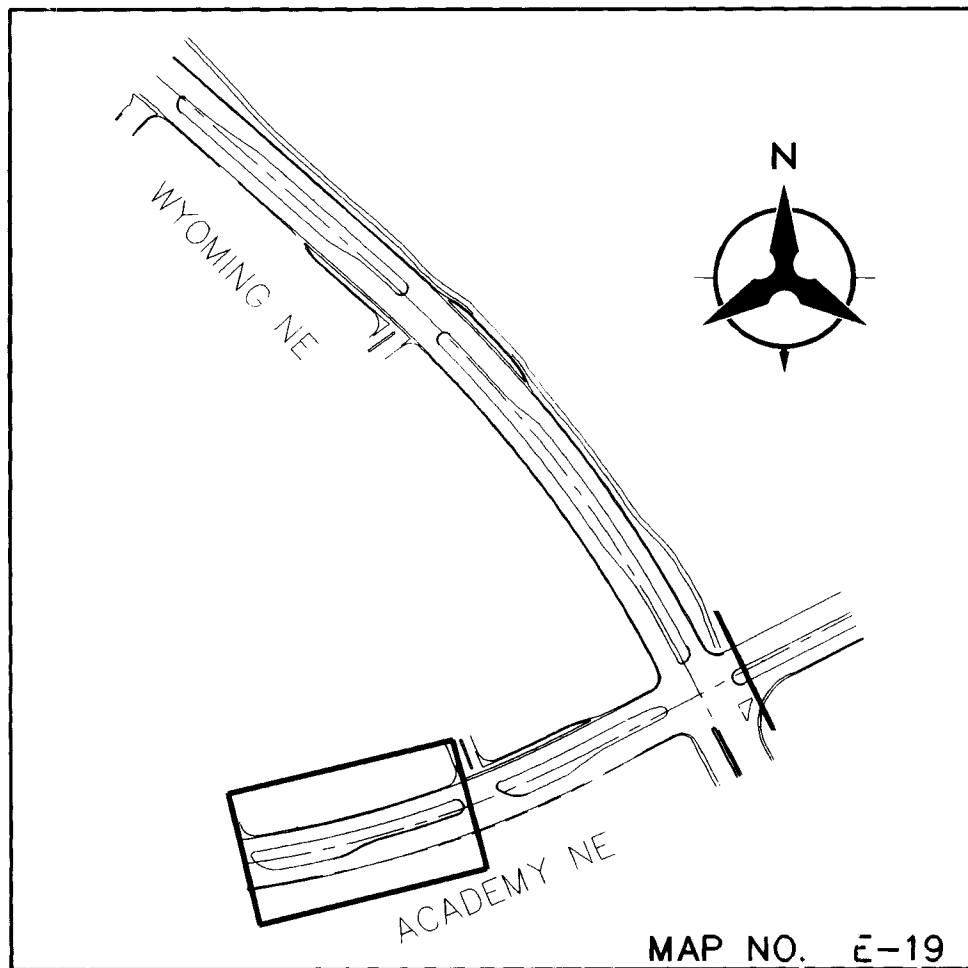
PLANT LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY	NOTES/C.O.A. STD. DETAIL
N/A	CRABAPPLE	Malus sp. "Snowdrift"	0	15 GAL./ #2715
	EXISTING TREES	--	7	
	TAM JUNIPER	Juniperus sabina "Tamariscifolia"	3	5 GAL./ #2717 8' OC.
	PRAIRIE SAGE	Artemisia ludoviciana	15	1 GAL./ #2717 3' OC.
	ANNUAL BED	--		SEASONAL PLANTINGS BY C.O.A. PARK MGT. CREWS
	SODDED TURF GRASS	--		SEE SPECIFICATIONS

CONSTRUCTION AND PLANTING KEYED NOTES

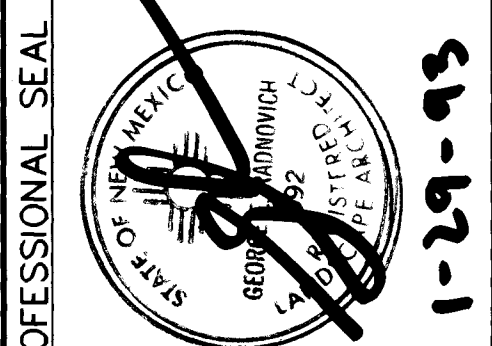
- ALL PLANTING WORK AS DESCRIBED IN THESE PLANS SHALL BE PERFORMED AS PER THE CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL TEXTURED MEDIAN PAVEMENT AS PER C.O.A. STD. DETAIL #2408. COMPACT SUBGRADE TO 90% AS PER COA. SPECIFICATIONS. COLOR SHALL BE DAVIS COLORS BAJA RED #160. PATTERN SHALL BE RUNNING BOND BRICK AS MFG. BY BOMANITE, INC. OR APPROVED EQUAL.
- CONCRETE MOWSTRIP SHALL BE INSTALLED AS PER C.O.A. PARKS AND GENERAL SERVICES STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- EXISTING SOILS TO BE RE-USED SHALL BE FREE OF RUBBISH, ROCK, LARGE STONES, BRUSH AND SOD. IF SUITABLE, QUANTITIES ARE NOT AVAILABLE, ADDITIONAL PLANTING SOILS SHALL CONFORM TO EXISTING SITE SOILS. FINISH GRADE SHALL BE 5" BELOW THE TOP OF THE CURB.
- ALL PLANTING BEDS SHALL RECEIVE A 4" DEPTH OF SHREDDED BARK MULCH, AS PER COA. SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL 1/2" EXPANSION JOINT MATERIAL.
- FINISH GRADE OF AREA TO BE RESODDED SHALL TIE TO MATCH GRADE AT EXISTING TURF GRASS.
- CONTRACTOR SHALL INSTALL 1/4"x5" RYERSON STEEL EDGING AS PER MANUFACTURER'S RECOMMENDATIONS.

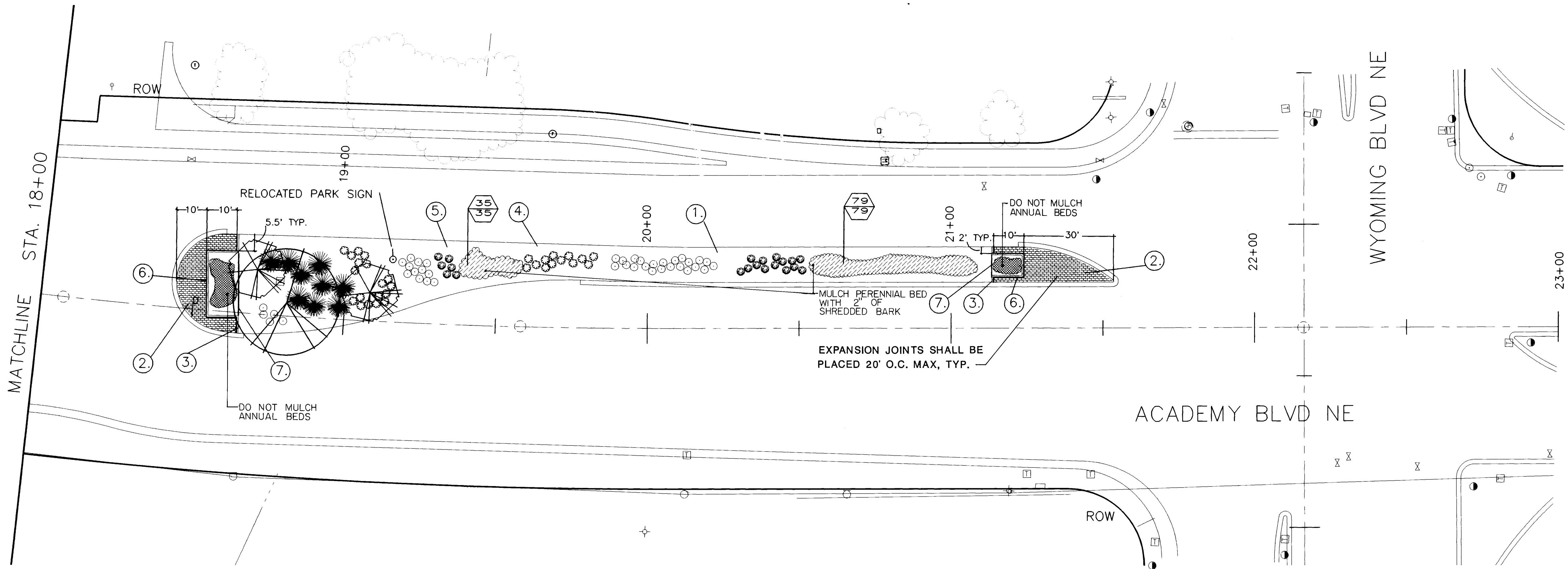
KEY MAP



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS ACADEMY BLVD. - STA 14+00 TO 18+00 CONSTRUCTION AND PLANTING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. G. Bailey</i>	2-17-93	WATER	<i>H. G. Bailey</i>	2-17-93
TRANSPORTATION	<i>N. H. RHD</i>	2-17-93	WASTE WATER		2-17-93
HYDROLOGY	<i>N. H. RHD</i>	2-17-93			
PARKS	<i>D. S. S. S.</i>	2-17-93			
DRAWING NO.	4555.91	MAP NO. E-19	SHEET 23	OF 68	

AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION		PROFESSIONAL SEAL		REVISIONS		DESIGNED BY: DM/PA		DATE: 1/93	
CONTRACTOR: UNIVERSAL	DATE: 9/93			FIELD NOTES		NO.		NO.		DRAWN BY: DM/PA		DATE: 1/93	
WORK STAKED BY: E. WALKER	DATE: 9/93			BY		DATE		DATE		CHECKED BY: GR		DATE: 1/93	
INSPECTOR'S APPROVAL: BHI	DATE: 9/93												
FIELD VERIFICATION BY: BHI	DATE: 9/93												
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MICRO-FILM INFORMATION	RECORDED BY												
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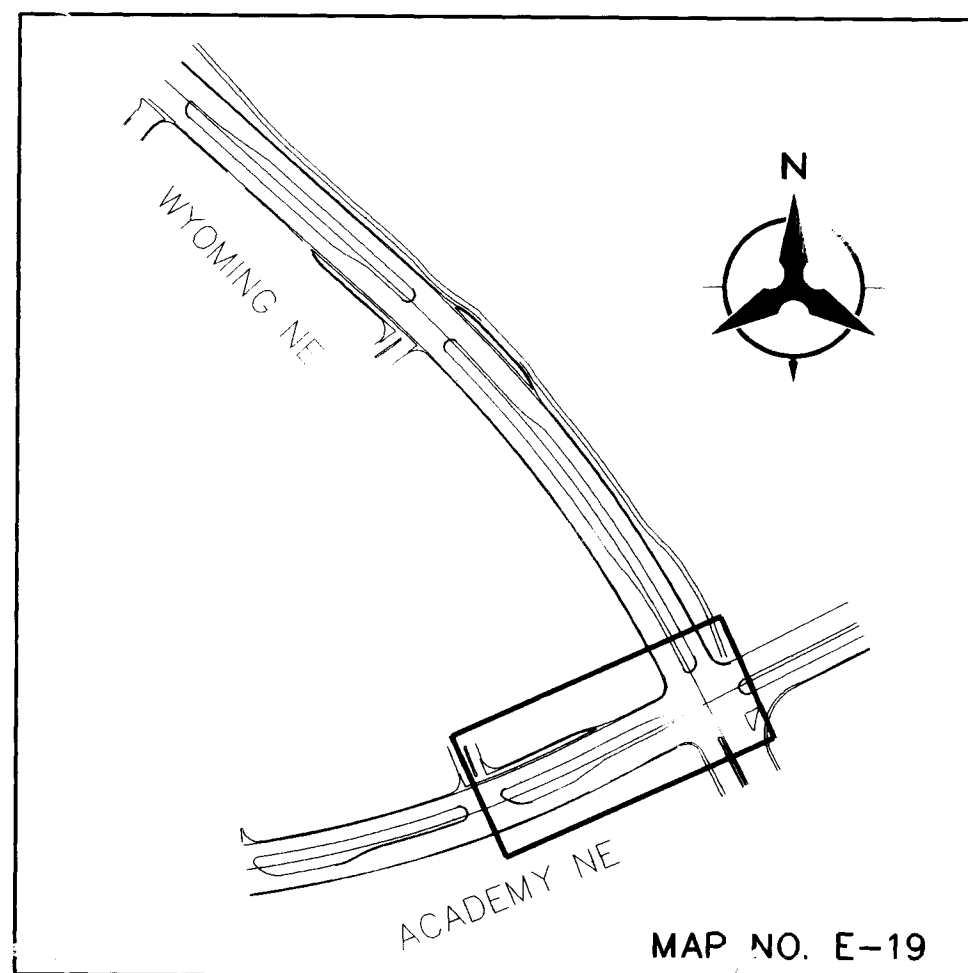


NOTE:
DIMENSIONS GIVEN ARE MEASURED FROM
THE BACK OF THE CURB.

CONSTRUCTION LEGEND

- CONCRETE MOWSTRIP
- ▨ TEXTURED MEDIAN PAVEMENT
- PARK SIGN RELOCATED

KEY MAP

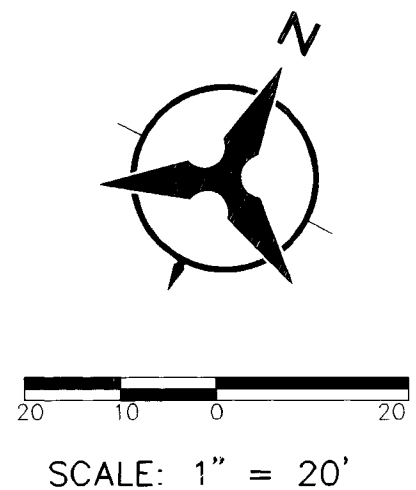


PLANT LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY	NOTES/C.O.A. STD. DETAIL
	SHADEMASTER HONEY LOCUST	Gleditsia triacanthos "Shademaster"	1	2" CAL. B&B/*2715
	CRABAPPLE	Malus "Snowdrift"	2	2" CAL. B&B/*2715
	CHERRY SAGE	Salvia greggii	20	1 GAL./#2717 30" O.C.
	LAVENDER COTTON	Santolina chamaecyparissus	40	1 GAL./#2717 3' O.C.
	TAM JUNIPER	Juniperus sabina "Tamariscifolia"	9	5 GAL./#2717 8' O.C.
	PRAIRIE SAGE	Artemisia ludoviciana	31	1 GAL./#2717 3' O.C.
	ANNUAL BED	--		SEASONAL PLANTINGS BY C.O.A. PARK MGT. CREWS
	PERENNIALS-- 50/50 MIX OF EACH PER PLANTING BED			
	ROCKY MT PENSTEMON	Penstemon strictus	114	4" POTS/18" O.C.
	"MOONSHINE" YARROW	Achillea toygetea "Moonshine"	114	4" POTS/18" O.C.

CONSTRUCTION AND PLANTING KEYED NOTES

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- CONTRACTOR SHALL INSTALL TEXTURED MEDIAN PAVEMENT AS PER C.O.A. STD. DETAIL #2408. COMPACT SUBGRADE TO 90% AS PER COA. SPECIFICATIONS. COLOR SHALL BE DAVIS COLORS BAJA RED #160. PATTERN SHALL BE RUNNING BOND BRICK AS MFG. BY BOMANITE, INC. OR APPROVED EQUAL.
- CONCRETE MOWSTRIP SHALL BE INSTALLED AS PER C.O.A. PARKS AND GENERAL SERVICES STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- EXISTING SOILS TO BE RE-USED SHALL BE FREE OF RUBBISH, ROCK, LARGE STONES, BRUSH AND SOD. IF SUITABLE QUANTITIES ARE NOT AVAILABLE, ADDITIONAL PLANTING SOILS SHALL CONFORM TO EXISTING SITE SOILS. FINISH GRADE SHALL BE 5' BELOW THE TOP OF THE CURB.
- ALL PLANTING BEDS SHALL RECEIVE A 4" DEPTH OF SHREDDED BARK MULCH, AS PER THE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL 1/2" EXPANSION JOINT MATERIAL.
- CONTRACTOR SHALL INSTALL 1/4"x5" RYERSON STEEL EDGING AS PER MANUFACTURER'S RECOMMENDATIONS.



AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION		PROFESSIONAL SEAL	
CONTRACTOR	DATE:	NO.	BY	DATE	NO.	BY	DATE
WORK STAGED BY: STEPHEN E. WALKER	DATE: 8/93						
INSPECTOR'S APPROVAL BY: BHI	DATE: 8/93						
FIELD VERIFICATION BY: BHI	DATE: 8/93						
DRAWING CORRECTED BY: BHI	DATE: 8/93						
MICRO-FILM INFORMATION	DATE:						
RECORDED BY:	NO.						

1-29-93

DESIGNED BY: DM/PA	DATE: 1/93
DRAWN BY: DM/GR	DATE: 1/93
CHECKED BY: GR	DATE: 1/93

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS ACADEMY BLVD.- STA 18+00 TO 23+00 CONSTRUCTION AND PLANTING PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN		2-17-93	WATER
TRANSPORTATION		2-17-93	WASTE WATER
HYDROLOGY		2-17-93	
PARKS		2-17-93	
DRAWING NO.	4555.91	MAP NO.	E-19
		SHEET	24
		OF	68

LIMITS OF LANDSCAPING

WYOMING BOULEVARD NE

MATCHLINE STA 33+50

28+00

29+00

30+00

31+00

32+00

33+00

ROW

V-1
1806/1812
1 1/2"
16.60

V-2
1402/SHRUB
1 1/2"
56.5

V-3
1402/TREE
1"
8.0

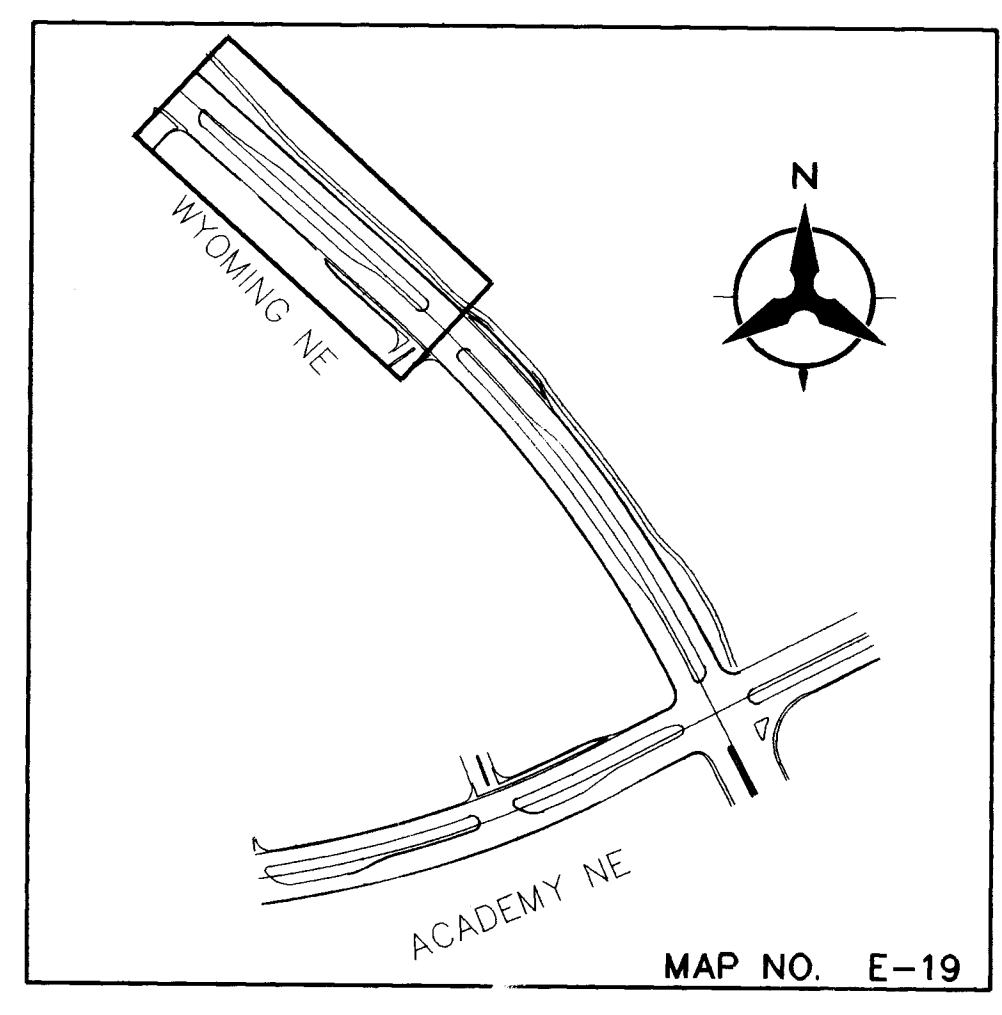
IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MODEL	UNIT	PSI	QUANTITY	NOTES/COA. DETAIL
	CONTROLLER-IRRITROL IBOC	IBOC-4B	EA.		1	INSTALL IN RELOCATED CONTROLLER VAULT
	EXISTING METER		EA		1	RELOCATED AS PER PLAN
	MASTER VALVE-HARDIE	100-1 1/2FC	EA	50	1	#2702
	FEBCO PVB	765	EA		1	#2702
	CHAMPION MANUAL GATE VALVE	4150	EA	50	2	SIZE AS PER PLAN
	CONTROL VALVE-HARDIE	100-1 1/2FC	EA	50	2	#2703
	BUBBLER- RAINBIRD	1402	EA	50	8	1 GPM/#2710
	BUBBLER- RAINBIRD	1402	EA	50	113	.5 GPM/#2709
	POP UP SPRAY- RAINBIRD	1806	EA	30	8	8Q-FLT .39 GPM/#2709
	POP UP SPRAY- RAINBIRD	1812	EA	30	12	8H-FLT .78 GPM/#2709
	POP UP SPRAY- RAINBIRD	1812	EA	30	8	8Q-FLT .39 GPM/#2709
	MAINLINE SCH 40 PVC	--	LF			SIZE AS PER PLAN
	LATERAL SCH 40 PVC	--	LF			SIZE AS PER PLAN

IRRIGATION NOTES

- CONTRACTOR SHALL ADJUST COVERAGE OF SPRAY HEADS AT ANNUALS AND PERENNIALS TO ENSURE THAT THERE IS NO OVERSPRAY INTO THE STREET.
- IRRIGATION PLAN AS SHOWN IS SCHEMATIC. LINES ARE SHOWN IN STREET FOR CLARITY.

KEY MAP



VALVE LEGEND

VALVE AND STATION NO.	
HEAD TYPE	
VALVE SIZE	
TOTAL GPM	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
WYOMING BLVD.- STA 27+50 TO 33+50
IRRIGATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93			
PARKS	<i>[Signature]</i>	2-17-93			

DRAWING NO. 4555.91

MAP NO. E-19

SHEET 25 OF 68

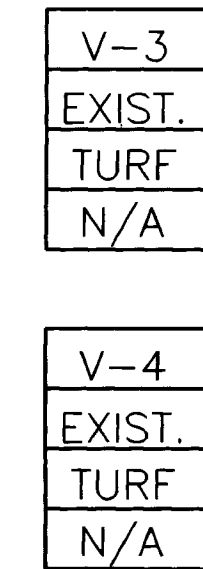
AS BUILT INFORMATION	
CONTRACTOR CONTRACTORS INC. DATE:	
WORK STAKED BY STEPHEN SCHALLER DATE:	
INSPECTOR'S APPROVAL BY BHI DATE: 8/93	
FIELD VERIFICATION BY BHI DATE: 8/93	
DRAWING CORRECTED BY BHI DATE: 8/93	
MICRO-FILM INFORMATION	
RECORDED BY	DATE:
NO.	

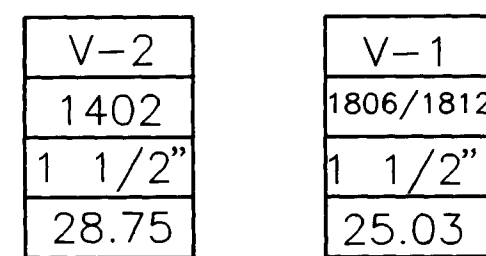
SURVEY INFORMATION	
FIELD NOTES	
BY	DATE
NO.	

BENCH MARK	

PROFESSIONAL SEAL	

REMARKS	
REVISIONS	
NO.	DATE
BY	
DESIGNED BY: DM/PA DATE: 1/93	
DRAWN BY: DM/PA DATE: 1/93	
CHECKED BY: GR DATE: 1/93	





SIGNAL AND LIGHTING NOTES

- 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.
- 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. 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.
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- 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.
- SPLICING OF COMMUNICATION CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATION CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS. SPLICING FOR TRAFFIC SIGNAL MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES.
- ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER.
- ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, METAL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
- 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 CABINET DOOR IS OPENED.
- 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. THE CONTRACTOR SHALL PAY ALL COSTS FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE FOR TRAFFIC SIGNALS AND STREET LIGHTING.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
- 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.
- IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROPRIATE COMPACTION METHODS SHALL BE USED DURING BACK FILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
- FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATION CABLES, THE REQUIREMENT FOR A SINGLE CONDUCTOR BARE COPPER WIRE #8 AWG. MAY BE WAIVED WHEN PERMITTED BY THE NATIONAL ELECTRIC CODE.
- THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
- 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.
- THE CONTRACTOR SHALL REMOVE AND REPLACE IN KIND OR BETTER LANDSCAPING AS REQUIRED TO COMPLETE THE SIGNAL, INTERCONNECT AND LIGHTING, INCLUDING SPRINKLERS, PLANTS, BUSHES, TREES, YARDWALLS, GRASS, GRAVEL, CONCRETE AND ASPHALT, ETC.
- THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- EXISTING SIGNALS TO BE REMOVED AND SALVAGED SHALL BE VIDEO TAPED PRIOR TO BEGINNING REMOVALS. THE VIDEO TAPE SHALL BE DELIVERED TO THE CITY TRAFFIC ENGINEERING OPERATIONS DIVISION FOR REVIEW. EXISTING SIGNAL EQUIPMENT DAMAGED BY THE CONTRACTOR DURING REMOVAL SHALL BE REPLACED WITH EQUIVALENT NEW EQUIPMENT.
- ALL SIGNAL POLES (TYPE I & TYPE II STANDARDS) SHALL BE STEEL UNLESS OTHERWISE APPROVED BY TRAFFIC ENGINEERING OPERATIONS, CITY OF ALBUQUERQUE, PRIOR TO BIDDING.

INCIDENTAL ITEMS

- CABLE TESTING AND DIAGRAMS.
- LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
- BORING, DRILLING, PUSHING, AND TRENCHING INCLUDING REMOVAL AND REPLACEMENT OF ASPHALT OR CONCRETE PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER AND LANDSCAPING FOR INSTALLATION OF TRAFFIC SIGNAL AND STREET LIGHTING PULL BOXES, CONDUITS, FOUNDATIONS, AND CABINETS.
- REMOVAL OF EXISTING PULL BOXES, CABLES, CONDUITS, OR OTHER TRAFFIC SIGNAL OR OTHER STREET LIGHTING EQUIPMENT AS REQUIRED TO CLEAR NEW CONSTRUCTION OR AS DIRECTED BY THE PROJECT MANAGER.
- PROVIDING 3M "OPTICOM" MODEL 262 RACK MOUNTED PHASE SELECTORS, MODEL 511 OPTICAL DETECTORS, MODEL 138 DETECTOR CABLE, AND FIELD ASSISTANCE.
- OFF-DUTY POLICE CONTROL OF INTERSECTIONS.
- LEAN FILL FOR CONDUIT TRENCHES.
- VIDEO TAPING OF EXISTING SIGNALS PRIOR TO REMOVAL.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
		METER PEDESTAL
		CONTROLLER CABINET
		CONDUIT RUN
		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

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

- THIS PROJECT IS AN EXTENSION OF AN EXISTING SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
 - MULTISONICS 820A CONTROLLERS WIRED INTO EIGHT PHASE "P" CABINETS WITH RACK MOUNTED DETECTORS. ALL CABINETS SHALL BE WIRED WITH APPROPRIATE TELEMETRY BOARDS. FIELD FUSE OUTPUT SHALL NOT BE INCLUDED. RACK MOUNTED SYSTEM DETECTORS SHALL BE PROVIDED AS SHOWN ON THE PLANS.
 - EACH SIGNAL CONTROL CABINET SHALL BE WIRED WITH 3M "OPTICOM" OR APPROVED EQUAL 262 RACK MOUNTED PHASE SELECTORS MODEL 511 OPTICAL DETECTORS SHALL BE MOUNTED ON SIGNAL POLES USING MODEL 138 OPTICOM CABLE TO PROVIDE PREEMPTION ON EACH MAJOR PHASE (PHASE 2, 4, 6, & 8). AS SHOWN ON THE PLANS.
 - SPLICE CABINETS SHALL BE HOFFMAN A-302008 LP WITH BACK PANEL A-30P20 OR APPROVED EQUAL. LOW VOLTAGE SPLICE BARS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BAR CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BARS IN EACH CABINET CAPABLE OF HANDLING NO. OF CONDUCTORS SHOWN ON PLANS). BELL SYSTEMS PART #66B33-50 OR APPROVED EQUAL.
- A 3M REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL "OPTICOM" EQUIPMENT AND SHALL ASSIST THE CITY IN SETTING UP AND TURNING ON EQUIPMENT.
- ALL SIGNAL HEADS, VISORS, PEDESTRIAN HEADS, FITTINGS AND OTHER EQUIPMENT AS REQUIRED SHALL BE BLACK IN COLOR TO CONFORM TO THE CITY OF ALBUQUERQUE STANDARDS.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		STREET LIGHT STANDARD WITH LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
		SERVICE POLE
		LIGHTING CONTROL CABINET

LUMINAIRE NUMBER
STATIONING
00-00-000-0-0

TYPE OF LAMP *
TYPE OF DISTRIBUTION
WATTAGE
ARM LENGTH
MOUNTING HEIGHT

LAMP TYPES *
H = MERCURY
M = METAL HALIDE
S = SODIUM

LIGHTING EQUIPMENT REQUIRMENTS

- THIS PROJECT CONTAINS A PORTION OF A LARGER STREET LIGHTING PROJECT BEING INSTALLED BY PNM FOR THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION TO CONFORM WITH THE LARGER PROJECT.
- ALL LIGHTING EQUIPMENT, INCLUDING POLES, LUMINARIES, LAMPS, CONNECTORS, FUSE HOLDERS, AND OTHER REQUIRED MATERIALS SHALL CONFORM TO PNM STANDARDS.
- LIGHTING FOUNDATIONS INCLUDING ANCHOR BOLTS AND BOLT CIRCLES SHALL CONFORM TO PNM STANDARDS.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	BY
CONTRACTOR'S INC.	DATE	NO.	BY	NO.	BY	NO.	BY
INSPECTOR'S	DATE 8/93	NO.	BY	NO.	BY	NO.	BY
ACCEPTANCE BY	DATE 8/93	NO.	BY	NO.	BY	NO.	BY
CERTIFICATION BY	DATE 8/93	NO.	BY	NO.	BY	NO.	BY
RECORDED BY	DATE	NO.	BY	NO.	BY	NO.	BY
NO.	DATE	NO.	BY	NO.	BY	NO.	BY

CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS TRAFFIC SIGNAL & STREET LIGHTING NOTES & LEGEND					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAF. OPER.	<i>[Signature]</i>	2-17-93
DRAWING NO.	4555.91	MAP NO.	E-19	SHEET	28 OF

TRAFFIC SIGNAL AND STREET LIGHTING ESTIMATED QUANTITIES												
CITY SPEC ITEM NUMBER	ITEM DESCRIPTION	UNIT	WYOMING ACADEMY	WYOMING ENTRANCE 1	ACADEMY ENTRANCE 2	WYOMING BURLISON	WYOMING SCHOOL FLASHER	SIGNAL INTER CONNECT	STREET LIGHTING	TOTAL		
0421.10	METER PEDESTAL (SIGNAL), 200 AMP, 3 PHASE	EACH	1	1						2	SEE NOTE 1	
0421.15	SERVICE CONNECTION (SIGNAL)	EACH	1	1						2	SEE NOTE 2	
0422.01	TRAFFIC SIGNAL PEDESTAL POLE, 4 FOOT	EACH						3		3		
0422.03	TRAFFIC SIGNAL PEDESTAL POLE, 13 FOOT	EACH	7	5	5					17		
0422.14	TRAFFIC SIGNAL MASTARM, 25 FOOT ARM, TYPE II, TROMBONE	EACH	1		1					2	SEE NOTE 4	
0422.16	TRAFFIC SIGNAL MASTARM, 30 FOOT ARM, TYPE II, TROMBONE	EACH	1	3	1					5	SEE NOTE 4	
0422.18	TRAFFIC SIGNAL MASTARM, 35 FOOT ARM, TYPE II, TROMBONE	EACH	2							2	SEE NOTE 4	
0422.102	RELOCATE EXISTING SCHOOL FLASHER	EACH					1			1	SEE NOTE 3	
0423.01	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE AND SPLICE CABINET	EACH	7	5	5		1	3		21		
0423.02	TRAFFIC SIGNAL MASTARM FOUNDATION	EACH	4	3	2					9		
0423.03	TRAFFIC CONTROLLER FOUNDATION (FOR TYPE P CABINET)	EACH	1	1	1					3		
0423.20	LUMINAIRE FOUNDATION, FOR LUMINAIRE HEIGHT - 40' AND LESS	EACH							38	38	SEE NOTE 5	
0423.101	TRAFFIC SIGNAL FOUNDATION, REMOVE & DISPOSE, COMPLETE	EACH	11				1	1	1	14		
0424.02	RIGID ELECTRICAL CONDUIT, 1"	LF	120	50	75					245		
0424.06	RIGID ELECTRICAL CONDUIT, 2"	LF	1905	855	1685		40	2540	6660	13685		
0424.11	RIGID ELECTRICAL CONDUIT, 3"	LF	950	625	735					2310		
0425.01	ELECTRICAL PULLBOX, STANDARD	EACH	13	6	9		1	15	30	74		
0425.02	ELECTRICAL PULLBOX, LARGE	EACH	12	10	10					32		
0425.10	SPLICE CABINET	EACH						3		3		
0425.20	TRAFFIC SIGNAL MANHOLE (TYPE I WITH COLLAR)	EACH						4		4		
0426.03	SINGLE CONDUCTOR, 6	LF	1305	420	1830					3555		
0426.05	SINGLE CONDUCTOR, 10	LF	665	550	535					1750		
0426.10	MULTI-CONDUCTOR CABLE 5	LF	1805	1545	1165					4515		
0426.11	MULTI-CONDUCTOR CABLE 7	LF	255	60	60					375		
0426.14	MULTI-CONDUCTOR CABLE 20	LF	1330	1100	1070					3500		
0426.20	COMMUNICATION CABLE 6 PAIR	LF						280		280		
0426.21	COMMUNICATION CABLE 12 PAIR	LF						2930		2930		
0427.02	3 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	12	13	10					35		
0427.04	5 SECTION TRAFFIC SIGNAL ASSEMBLY	LF	8	2	2					12		
0427.21	PEDESTRIAN SIGNAL (NEON)	EACH	8	6	4					18		
0427.31	3 SECTION BACKPLATE	EACH	8	5	4					17		
0428.01	LOOP VEHICLE DETECTOR	EACH	14	12	10					36	SEE NOTE 6	
0428.10	PEDESTRIAN PUSH BUTTON STATION	EACH	8	6	4					18		
0428.21	LOOP DETECTOR WIRE	LF	6618	2923	2753					12294		
0428.50	LOOP LEAD-IN CABLE	LF	9550	4530	4425					18505		
0428.60	DETECTOR SAW CUT	LF	2254	969	919					4142		
0429.01	TRAFFIC ACTUATED CONTROLLER	EACH	1	1	1					3	SEE NOTE 6	
0429.21	EIGHT PHASE DUAL RING CONTROLLER CABINET	EACH	1	1	1					3	SEE NOTE 6	

- NOTES:
1. SIGNALS AT WYOMING/ACADEMY AND ACADEMY/ENTRANCE #2 ARE TO SHARE METER LOCATED BETWEEN THESE INTERSECTIONS.
 2. SERVICE CONNECTION (SIGNAL) IS TO INCLUDE CONNECTION TO EXISTING TRANSFORMER, LOCATIONS SHOWN ON PLANS.
 3. RELOCATION OF EXISTING SCHOOL FLASHER IS TO INCLUDE REMOVAL AND RELOCATION OF EXISTING PEDESTAL POLE, SIGN, AND SIGNAL HEADS.
 4. ALL SIGNAL POLES SHALL BE STEEL UNLESS APPROVED OTHERWISE.
 5. ALL STREET LIGHTING MATERIALS AND INSTALLATION SHALL CONFORM TO PNM STANDARDS.
 6. TRAFFIC SIGNAL CONTROLLERS, CONTROL CABINETS, AND "OPTICOM" EQUIPMENT INSIDE CONTROL CABINET HAS BEEN PREORDERED DUE TO LONG LEAD TIME FOR DELIVERY. CONTRACTOR SHALL PAY FOR EQUIPMENT, PICK UP EQUIPMENT, TRANSPORT TO SITE, AND INSTALL.

26 4555.912993

		CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING			
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS TRAFFIC SIGNAL & STREET LIGHTING ESTIMATED QUANTITIES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. J. Boudley</i>	2-17-93	WATER	<i>W. L. G. 80</i>	2-17-93
TRANSPORTATION	<i>N/A</i>	2-17-93	WASTE WATER		2-17-93
HYDROLOGY	<i>N/A</i>	2-17-93	TRAF OPER	<i>La. J. 100</i>	2-4-93
DRAWING NO. 4555.91		MAP NO. E-19		SHEET 29 OF	

SYSTEM DETECTOR DESIGNATIONS

SDEBA - SYSTEM DETECTOR EASTBOUND APPROACH
SDWBD - SYSTEM DETECTOR WESTBOUND DEPARTURE
SDNBD - SYSTEM DETECTOR NORTHBOUND DEPARTURE
SDSBA - SYSTEM DETECTOR SOUTHBOUND APPROACH

NOTES:

1. THE FOLLOWING LOOPS SHALL BE WIRED IN SERIES:

DL (4) 1A & DL (4) 1B: ONE LOOP LEAD-IN CABLE

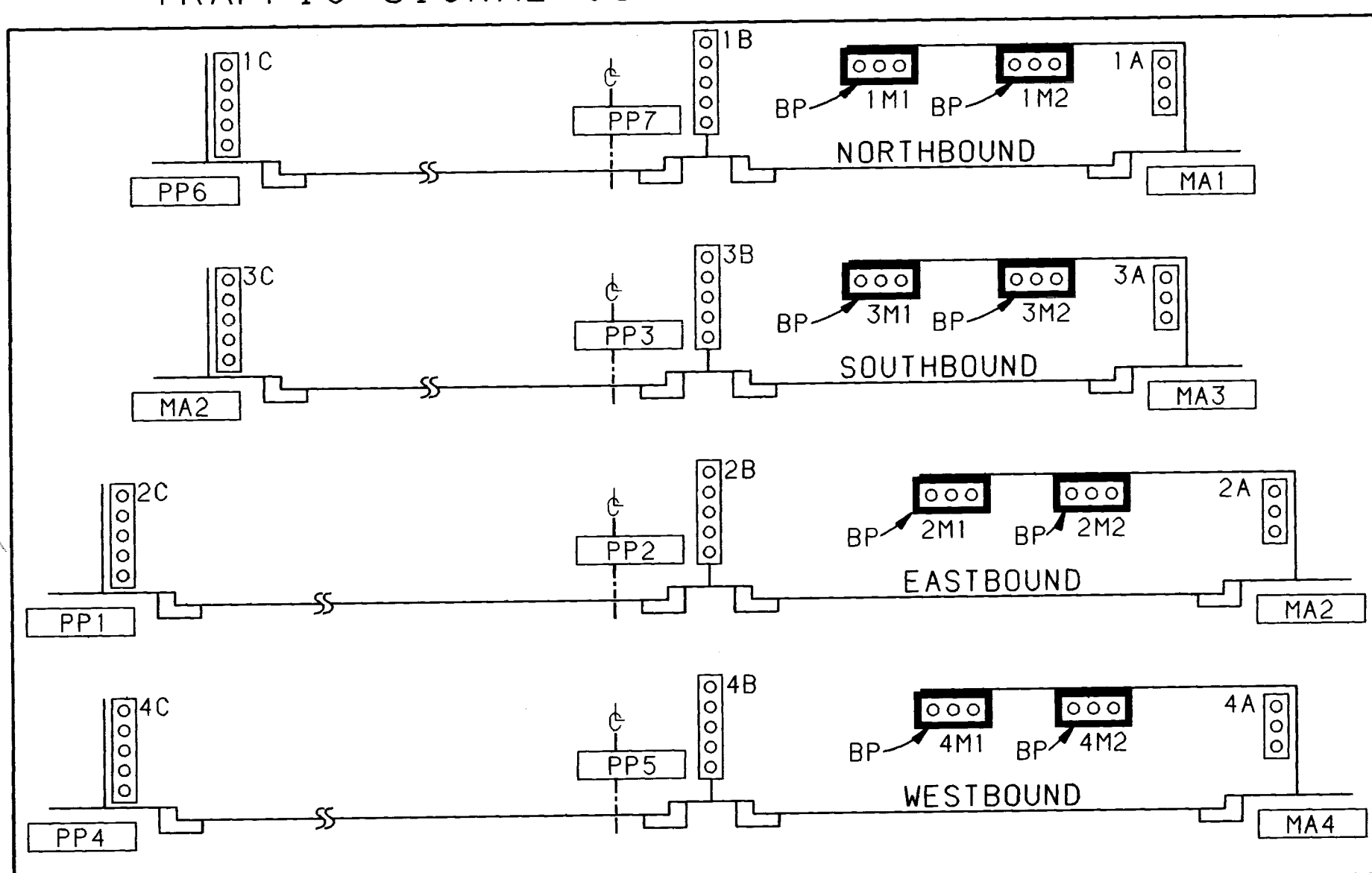
DL (4) 2A & DL (4) 2B: ONE LOOP LEAD-IN CABLE

DL (8) 1A & DL (8) 1B: ONE LOOP LEAD-IN CABLE

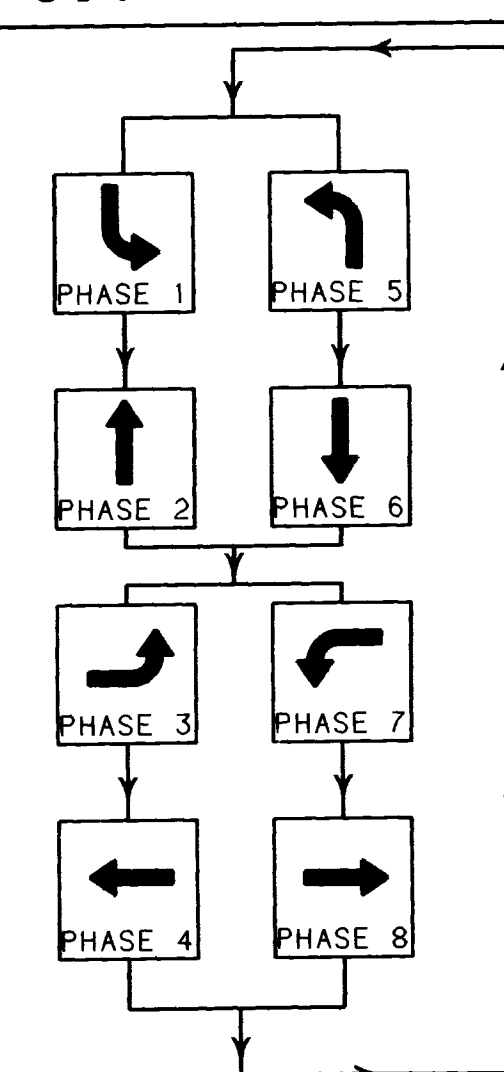
DL (8) 2A & DL (8) 2B: ONE LOOP LEAD-IN CABLE

2. SYSTEM DETECTOR LOOPS AT THIS LOCATION SHALL HAVE 5 TURNS OF LOOP WIRE AND 1 LOOP LEAD-IN CABLE PER EACH.
3. CONTRACTOR SHALL CAREFULLY REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL HEADS, FITTINGS, BACK PLATES, MASTARMS, PEDESTAL POLES, CONTROL EQUIPMENT, AND CONTROL CABINETS. SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE CITY YARD ON PINDO RD. N.E. CONTRACTOR SHALL VIDEO TAPE EXISTING SIGNALS PRIOR TO BEGINNING REMOVALS.
4. CONTRACTOR SHALL REMOVE ALL EXISTING TRAFFIC SIGNAL EQUIPMENT FOUNDATIONS.
5. CONTRACTOR SHALL REMOVE EXISTING ELECTRICAL CONDUITS, CABLES, AND PULL BOXES AS REQUIRED TO CLEAR NEW CONSTRUCTION.

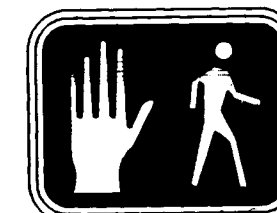
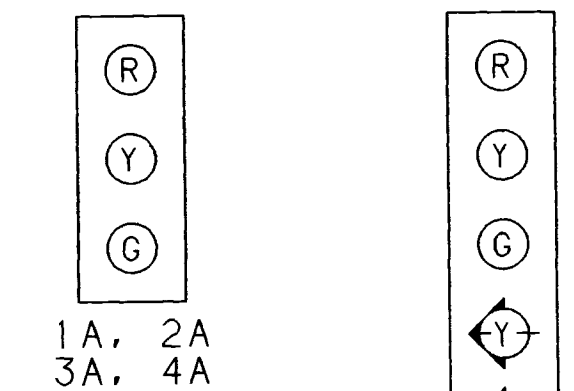
TRAFFIC SIGNAL CONFIGURATION BY APPROACH



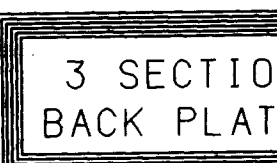
SIGNAL PHASING



TYPICAL SIGNAL FACE LENSE ARRANGEMENTS



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



1M1, 1M2, 2M1, 2M2
3M1, 3M2, 4M1, 4M2

PEDSTRIAN PUSH BUTTON DESIGNATION SIGNS

PPB 1, 3, 5, 7 R10 - 4b R
PPB 2, 4, 6, 8 R10 - 4b L

26 4555.91 3093

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
WYOMING/ACADEMY
TRAFFIC SIGNAL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	2-17-93	2-17-93	WATER	2-17-93	2-17-93
TRANSPORTATION	2-17-93	2-17-93	WASTE WATER	2-17-93	2-17-93
HYDROLOGY	2-17-93	2-17-93	TRAF OPER	2-17-93	2-17-93

PROJECT NO. 4555.91 MAP NO. E-19 SHEET 30 OF 30

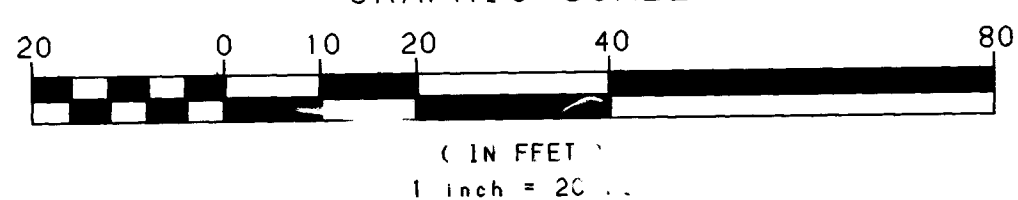
ABBREVIATIONS

MA# MASTARM NUMBER
PP# PEDESTAL POLE NUMBER
SD SYSTEM DETECTOR
PPB# PEDESTRIAN PUSH BUTTON NUMBER
CC# CONTROL CABINET NUMBER
SC# SPLICE CABINET NUMBER
PB# PULL BOX NUMBER
DL (#) # DETECTOR LOOP (PHASE NO.) LOOP NO.
1A SIGNAL HEAD NUMBER
P# PEDESTRIAN SIGNAL NUMBER
BP BACK PLATE
SPB# SERVICE PULLBOX NUMMER
SD SYSTEM DETECTOR

SYMBOL KEY

MA1 SIGNAL & CABINET I.D.
99 CONDUIT RUN I.D.

GRAPHIC SCALE



CAUTION:
UNDERGROUND ELECTRIC
750 KV LINE

CABINETS

I.D. NO.	TYPE	FOUNDATION
CC1	P	CONTROLLER

SIGNAL POLES AND MASTARMS

I.D. NO.	TYPE	FOUNDATION
MA1	MASTARM - 35'	MASTARM
MA2	MASTARM - 30'	MASTARM
MA3	MASTARM - 35'	MASTARM
MA4	MASTARM - 25'	MASTARM
PP1	PED POLE - 13'	PEDESTAL
PP2	PED POLE - 13'	PEDESTAL
PP3	PED POLE - 13'	PEDESTAL
PP4	PED POLE - 13'	PEDESTAL
PP5	PED POLE - 13'	PEDESTAL
PP6	PED POLE - 13'	PEDESTAL
PP7	PED POLE - 13'	PEDESTAL

FLASH CONDITION

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

NOTES:

PULL BOXES 1 THROUGH 12 ARE LARGE SIZE, AND PULL BOXES 13 THROUGH 25 ARE STANDARD SIZE.

LOOP LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	NO. PAIR X LENGTH	TOTAL LENGTH
PB13	CONTROLLER	35+6 +4	2 @ 150'	300'
PB14	CONTROLLER	36+12+10+8 +6 +4	2 @ 305'	610'
PB15	CONTROLLER	37+18+19+20+21+22+4	1 @ 315'	315'
PB16	CONTROLLER	38+21+22+4	1 @ 165'	165'
PB17	CONTROLLER	39	2 @ 95'	190'
PB18	PB17	40	2 @ 125'	250'
PB19	CONTROLLER	41+16+14+12+10+8 +6 +4	2 @ 460'	920'
PB20	PB19	42	2 @ 125'	250'
PB21	CONTROLLER	43+42+41+16+14+12+10+8+6+4	2 @ 800'	1600'
PB22	CONTROLLER	44+43+42+41+40+44+24+0+6+4	2 @ 870'	1740'
PB24	CONTROLLER	46+45+22+4	3 @ 510'	1530'
PB25	CONTROLLER	47+46+45+22+4	3 @ 560'	1680'
TOTAL				9550'

CONDUIT AND CONDUCTOR REQUIREMENTS															
CONDUIT LENGTH, SIZE, AND TYPE					CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE										
RUN ID	SIZE/LENGTH			TYPE	REMARKS	MCC 5 (# # ft)	MCC 7 (# # ft)	MCC 20 (# # ft)	SCC #10 (# # ft)	SCC #6 (# # ft)	DLIC (# # ft)	CC 6 (# # ft)	CC 12 (# # ft)	OPTICOM CABLE	OTHER (# # ft)
	1"	2"	3"												
1		100'		REC	POWER TO METER					3 • 105'					
2A		110'		REC	METER TO SPB1					3 • 115'					
2B		210'		REC	SPB1 TO CC1					3 • 215'					
3			25'	REC	CC1 TO PB1	1 • 30'		2 • 30'	1 • 30'						
4			25'	REC	CC1 TO PB1										
5			65'	REC	PB1 TO PB2	1 • 70'		2 • 70'	1 • 70'		18 • 30'			4 • 30'	
6			65'	REC	PB1 TO PB2										
7			45'	REC	PB2 TO PB3	1 • 50'		2 • 50'	1 • 50'		10 • 70'			2 • 70'	
8			45'	REC	PB2 TO PB3										
9			30'	REC	PB3 TO PB4	1 • 35'		2 • 35'	1 • 35'		8 • 50'			2 • 50'	
10			30'	REC	PB3 TO PB4										
11			65'	REC	PB4 TO PB5	1 • 70'		2 • 70'	1 • 70'		8 • 35'			2 • 35'	
12			65'	REC	PB4 TO PB5										
13			45'	REC	PB5 TO PB6	1 • 50'		2 • 50'	1 • 50'		8 • 70'			1 • 70'	
14			45'	REC	PB5 TO PB6										
15			35'	REC	PB6 TO PB7	1 • 40'		2 • 40'	1 • 40'		6 • 50'			1 • 50'	
16			35'	REC	PB6 TO PB7										
17			70'	REC	PB7 TO PB8	1 • 75'		2 • 75'	1 • 75'		6 • 40'				
18			35'	REC	PB8 TO PB9	1 • 40'		2 • 40'	1 • 40'						
19			40'	REC	PB9 TO PB10	1 • 45'		2 • 45'	1 • 45'		1 • 45'			1 • 45'	
20			65'	REC	PB10 TO PB11	1 • 70'		2 • 70'	1 • 70'		1 • 70'			1 • 70'	
21			40'	REC	PB11 TO PB12	1 • 45'		2 • 45'	1 • 45'		2 • 45'			1 • 45'	
22			40'	REC	PB12 TO PB1						8 • 45'			2 • 45'	
23			40'	REC	PB12 TO PB1	1 • 45'		2 • 45'	1 • 45'						
24		15'		REC	PB1 TO PP1	4 • 20'	1 • 20'								
25		10'		REC	PB2 TO PP2		1 • 15'								
26		20'		REC	PB4 TO MA2	7 • 25'	1 • 25'							1 • 25'	
27		10'		REC	PB5 TO PP3		1 • 15'								
28		10'		REC	PB6 TO MA3	3 • 15'								1 • 15'	
29		10'		REC	PB6 TO PP4	4 • 15'	1 • 15'								
30		10'		REC	PB8 TO PP5		1 • 15'								
31		10'		REC	PB9 TO MA4	3 • 15'								1 • 15'	
32		20'		REC	PB10 TO PP6	4 • 25'	1 • 25'								
33		10'		REC	PB11 TO PP7		1 • 15'								
34		10'		REC	PB12 TO MA1	3 • 15'								1 • 15'	
35		45'		REC	PB2 TO PB13						2 • 50'				
36		45'		REC	PB5 TO PB14						2 • 50'				
37		35'		REC	PB8 TO PB15						1 • 40'				
38		40'		REC	PB11 TO PB16						1 • 45'				
39		90'		REC	CC1 TO PB17						2 • 95'				
40		120'		REC	PB17 TO PB18						2 • 125'				
41		110'		REC	PB7 TO PB19						6 • 115'				
42		120'		REC	PB19 TO PB20						6 • 125'				
43		210'		REC	PB20 TO PB21						4 • 215'				
44		65'		REC	PB21 TO PB22						2 • 70'				
45		225'		REC	PB12 TO PB23						6 • 230'				
46		200'		REC	PB23 TO PB24						2 • 205'				
47		45'		REC	PB24 TO PB25						3 • 50'				
	120'			REC	PB TO CURB	DETECTOR STUB-OUTS									
MA1	NA	NA	NA	NA	BASE TO 1A	1 • 15'									
MA1	NA	NA	NA	NA	BASE TO 1M1	1 • 55'								1 • 55'	
MA1	NA	NA	NA	NA	BASE TO 1M2	1 • 45'									
PP1	NA	NA	NA	NA	BASE TO 2C		1 • 15'								
PP1	NA	NA	NA	NA	BASE TO P1 & P2	2 • 15'									
PP1	NA	NA	NA	NA	BASE TO PPB1 & PPB2	2 • 5'									
PP2	NA	NA	NA	NA	BASE TO 2B		1 • 15'								
MA2	NA	NA	NA	NA	BASE TO 2A	1 • 15'									
MA2	NA	NA	NA	NA	BASE TO 2M1	1 • 50'								1 • 50'	
MA2	NA	NA	NA	NA	BASE TO 2M2	1 • 40'									
MA2	NA	NA	NA	NA	BASE TO 3C		1 • 15'								
MA2	NA	NA	NA	NA	BASE TO P3 & P4	2 • 15'									
MA2	NA	NA	NA	NA	BASE TO PPB3 & PPB4	2 • 5'									
PP3	NA	NA	NA	NA	BASE TO 3B		1 • 15'								
MA3	NA	NA	NA	NA	BASE TO 3A	1 • 15'									
MA3	NA	NA	NA	NA	BASE TO 3M1	1 • 55'								1 • 55'	
MA3	NA	NA	NA	NA	BASE TO 3M2	1 • 45'									
PP4	NA	NA	NA	NA	BASE TO P5 & P6	2 • 15'									
PP4	NA	NA	NA	NA	BASE TO PPB5 & PPB6	2 • 5'									
PP4	NA	NA	NA	NA	BASE TO 4C		1 • 5'								
PP5	NA	NA	NA	NA	BASE TO 4B		1 • 15'								
MA4	NA	NA	NA	NA	BASE TO 4A	1 • 15'									
MA4	NA	NA	NA	NA	BASE TO 4M1	1 • 45'								1 • 45'	
MA4	NA	NA	NA	NA	BASE TO 4M2	1 • 35'									
PP6	NA	NA	NA	NA	BASE TO 1C		1 • 15'								
PP6	NA	NA	NA	NA	BASE TO P7 & P8	2 • 15'									
PP6	NA	NA	NA	NA	BASE TO PPB7 & PPB8	2 • 5'									
PP7	NA	NA	NA	NA	BASE TO 1B		1 • 15'								
TOTALS	120'	1905'	950'			1805'	255'	1330'	665'	1305'	9550'			1075'	

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

DETECTOR LOOPS											
LOOP I.D.	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT	NO.CHANNEL		L	W	S	T		
DL (1) 1	PRESENCE	DELAY 3	ONE	CH. 1	QP	50'	6'	5'	5'	449'	167'
DL (3) 1	PRESENCE	DELAY 3	FIVE	CH. 1	OP	50'	6'	5'	5'	449'	167'
DL (4) 1A	PRESENCE	EXTEND 3	SIX	CH. 1	EC	6'	6'	5'	5'	97'	29'
DL (4) 1B	PRESENCE	EXTEND 3	SIX	CH. 1	EC	6'	6'	5'	5'	97'	29'
DL (4) 2A	PRESENCE	EXTEND 3	SIX	CH. 2	QP	6'	6'	15'	5'	117'	39'
DL (4) 2B	PRESENCE	EXTEND 3	SIX	CH. 2	QP	6'	6'	15'	5'	117'	39'
DL (5) 1A	PRESENCE	DELAY 3	ONE	CH. 2	QP	50'	6'	5'	5'	449'	167'
DL (5) 2	PRESENCE	DELAY 3	ONE	CH. 2	QP	50'	6'	15'	5'	469'	179'
DL (7) 1	PRESENCE		FIVE	CH. 2	QP	50'	6'	5'	5'	449'	167'
DL (7) 2	PRESENCE		FIVE	CH. 2	QP	50'	6'	15'	5'	469'	179'
DL (8) 1A	PRESENCE	EXTEND 3	SEVEN	CH. 1	QP	50'	6'	5'	5'	449'	167'
DL (8) 1B	PRESENCE	EXTEND 3	SEVEN	CH. 1	QP	50'	6'	5'	5'	449'	167'
DL (8) 2A	PRESENCE	EXTEND 3	SEVEN	CH. 2	QP	50'	6'	15'	5'	469'	179'
DL (8) 2B	PRESENCE	EXTEND 3	SEVEN	CH. 2	QP	50'	6'	15'	5'	469'	179'
SDSBA1	PULSE		SD-1	CH. 1	SD	50'	6'	35'	5'	200'	59'
SDSBA2	PULSE		SD-1	CH. 2	SD	6'	6'	25'	5'	180'	49'
SDSBA3	PULSE		SD-2	CH. 1	SD	6'	6'	15'	5'	160'	39'
SDNBD1	PULSE		SD-3	CH. 1	SD	6'	6'	5'	5'	140'	29'
SDNBD2	PULSE		SD-3	CH. 2	SD	6'	6'	15'	5'	160'	39'
SDNBD3	PULSE		SD-4	CH. 1	SD	6'	6'	25'	5'	180'	49'
SDEBA1	PULSE		SD-5	CH. 1	SD	6'	6'	5'	5'	140'	29'
SDEBA2	PULSE		SD-5	CH. 2	SD	6'	6'	15'	5'	160'	39'
SDWBD1	PULSE		SD-6	CH. 1	SD	6'	6'	15'	5'	160'	39'
SDWBD2	PULSE		SD-6	CH. 2	SD	6'	6'	5'	5'	140'	29'

FUNCTION CHART - 24 VOLT CIRCUIT			
MULTI CONDUCTOR CABLE 5			
CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB1 & PPB3
2	WHITE	COMMON	PPB1 THRU PPB8
3	RED	PHASE 4 PPB	PPB2 & PPB7
4	GREEN	PHASE 6 PPB	PPB5 & PPB8
5	ORANGE	PHASE 8 PPB	PPB4 & PPB6

NOTES:

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

ABBREVIATIONS

CC	6	-	COMMUNICATION CABLE	-	6	PAIR
CC	12	-	COMMUNICATION CABLE	-	12	PAIR
DL			DETECTOR LOOP			
DLIC			DETECTOR LOOP LEAD-IN CABLE			
EC			EXTENDED CALL			
MA			M- MAST ARM			
MCC			MULTI CONDUCTOR CABLE			
PB			PULL BOX			
PP			PEDESTAL POLE			
PPB			PEDESTRIAN PUSH BUTTON			
PPBP			PEDESTRIAN PUSH BUTTON POLE			
QP			QUADRAPOLE LOOP			
REC			RIGID ELECTRIC CONDUIT			
SCC			SINGLE CONDUCTOR CABLE			
SD			SYSTEM DETECTOR			

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE:		SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY CABLES, CONDUITS, AND FUNCTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	<i>B. G. Sweeney</i>	<i>2-17-93</i>	WATER	<i>#68</i>	<i>2-17-93</i>		
TRANSPORTATION	<i>A. J. Myers</i>	<i>2-17-93</i>	WASTE WATER		<i>2-17-93</i>		
HYDROLOGY	<i>A. J. Myers</i>	<i>2-17-93</i>	TRAF OPER	<i>W. J. W.</i>	<i>2-17-93</i>		
DRAWING NO.		4555.91		MAP NO.	E-19		SHEET 31 OF 31

LOOP LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	NO. PAIR X LENGTH	TOTAL LENGTH
PB11	CONTROLLER	26+6 +4	2 @ 115'	230'
PB12	CONTROLLER	27+11+10+8 +6 +4	1 @ 280'	280'
PB7	CONTROLLER	13+12+11+10+8 +6 +4	1 @ 315'	315'
PB13	CONTROLLER	28+16+17+4	1 @ 165'	165'
PB15	CONTROLLER	30+29+10+8 +6 +4	3 @ 560'	1680'
PB16	CONTROLLER	31+30+29+10+8 +6 +4	3 @ 620'	1860'
TOTAL				4530'

TOTAL 4530'

SYSTEM DETECTOR DESIGNATIONS

SDNBA - SYSTEM DETECTOR NORTHBOUND APPROACH
SDSBD - SYSTEM DETECTOR SOUTHBOUND DEPARTURE

NOTES:

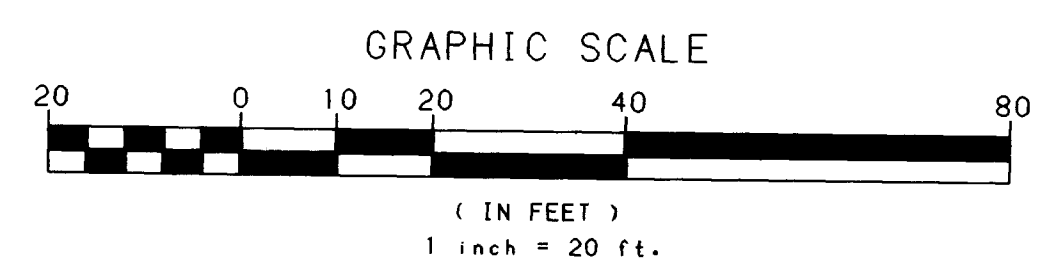
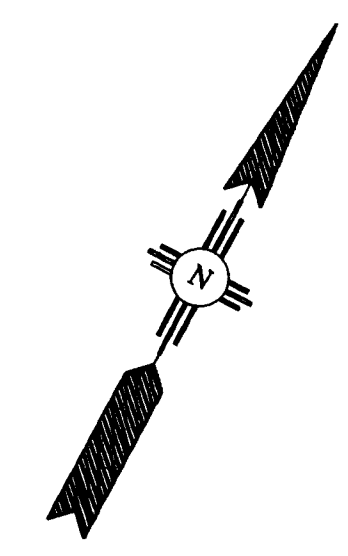
1. SYSTEM DETECTOR LOOPS AT THIS LOCATION SHALL HAVE 4 TURNS OF LOOP WIRE AND 1 LOOP LEAD-IN CABLE PER EACH.

ABBREVIATIONS

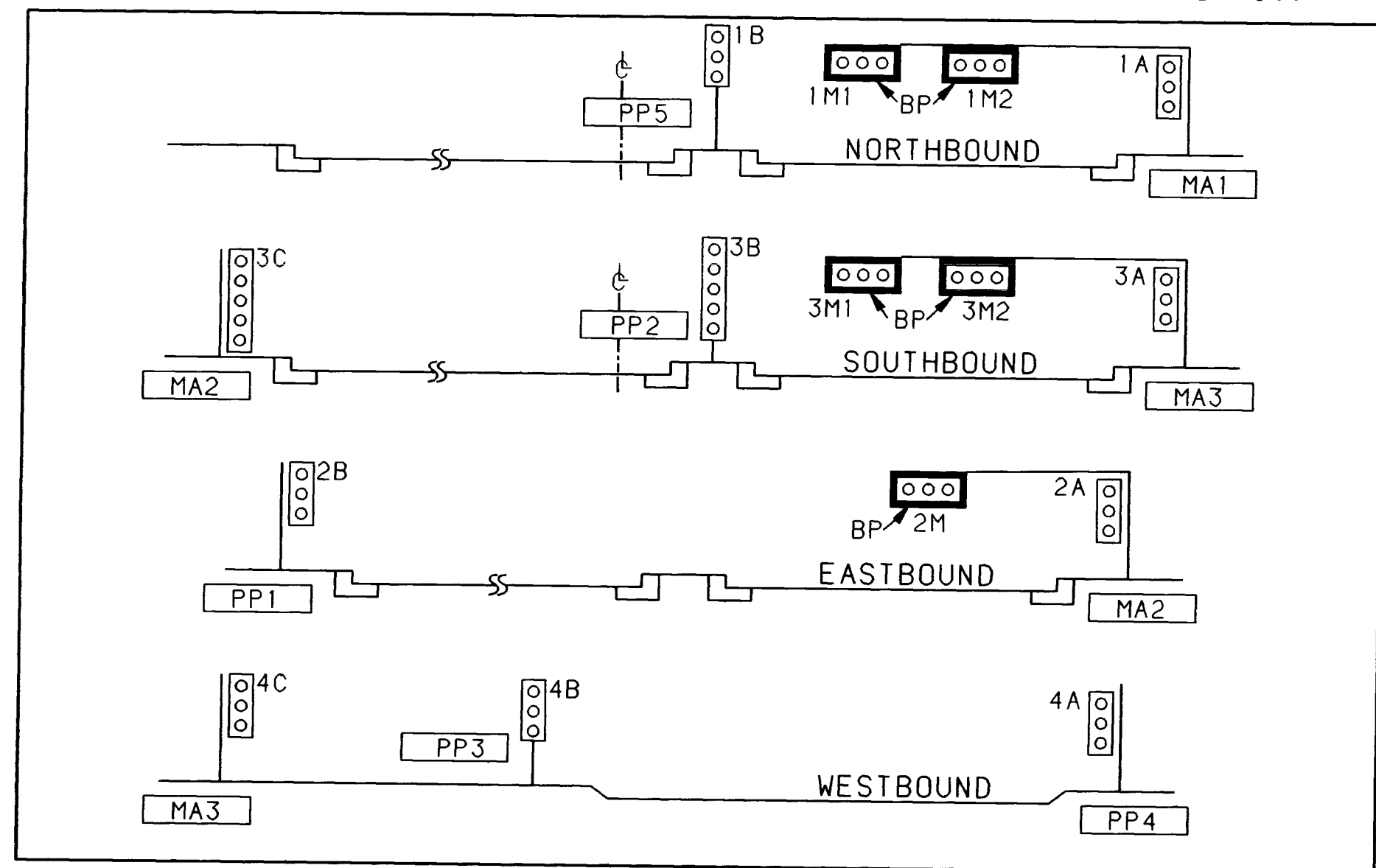
MA# MASTARM NUMBER
PP# PEDESTAL POLE NUMBER
PPBP# PEDESTRIAN PUSH BUTTON POLE NUMBER
PPB# PEDESTRIAN PUSH BUTTON NUMBER
CC# CONTROL CABINET NUMBER
SC# SPLICE CABINET NUMBER
PB# PULL BOX NUMBER
DL (#) # DETECTOR LOOP (PHASE NO.) LOOP NO.
1A SIGNAL HEAD NUMBER
P# PEDESTRIAN SIGNAL NUMBER
BP BACK PLATE
SD SYSTEM DETECTOR

SYMBOL KEY

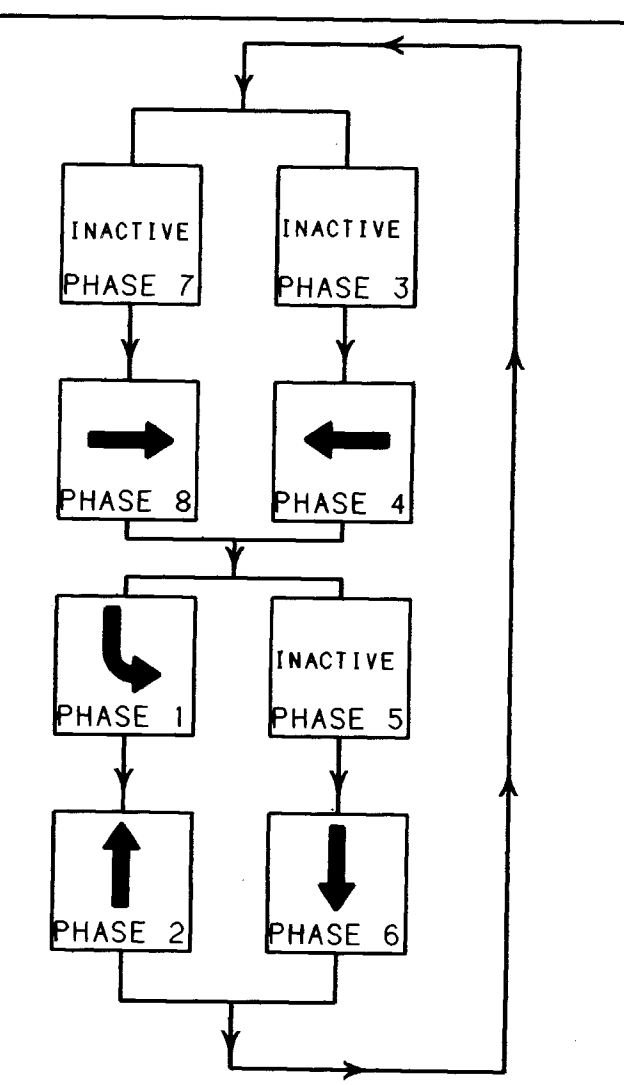
MA1 SIGNAL & CABINET I.D.
49 CONDUIT RUN I.D.



TRAFFIC SIGNAL CONFIGURATION BY APPROACH



SIGNAL PHASING



TYPICAL SIGNAL FACE LENS ARRANGEMENTS

1M1, 1M2, 2M
3M1, 3M2

1A, 1B, 2A, 2B
3A, 4A, 4B, 4C

3B, 3C

FLASH CONDITION

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

NOTES:

1. PULL BOXES 1 THROUGH 10 ARE LARGE SIZE, AND PULL BOXES 11 THROUGH 16 ARE STANDARD SIZE.

CABINETS

I.D. NO.	TYPE	FOUNDATION
CC1	P	CONTROLLER

SIGNAL POLES AND MASTARMS

I.D. NO.	TYPE	FOUNDATION
MA1	MASTARM - 30'	MASTARM
MA2	MASTARM - 30'	MASTARM
MA3	MASTARM - 30'	MASTARM
PP1	PED POLE - 13'	PEDESTAL
PP2	PED POLE - 13'	PEDESTAL
PP3	PED POLE - 13'	PEDESTAL
PP4	PED POLE - 13'	PEDESTAL
PP5	PED POLE - 13'	PEDESTAL

PEDSTRIAN PUSH BUTTON DESIGNATION SIGNS

PPB 1, 4 R10 - 4b R
PPB 2, 3, 5, 6 R10 - 4b L

26 4555.91 13093

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
WYOMING/ENTRANCE 1
TRAFFIC SIGNAL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAF OPER	<i>[Signature]</i>	2-17-93

PROJECT NO. 4555.91 MAP NO. E-19 SHEET 32 OF 32

RANS: [T9224810.PADED]TRAFCHART-ENT1.GRF[illegible]

LOOP LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	NO. PAIR X LENGTH	TOTAL LENGTH
PB11	CONTROLLER	28*14*16*18*20*4	1 @ 245'	245'
PB12	CONTROLLER	29*20*4	2 @ 115'	230'
PB13	CONTROLLER	6 *4	2 @ 180'	360'
PB14	PB13	31	2 @ 125'	250'
PB15	CONTROLLER	32*12*14*16*18*20*4	2 @ 380'	760'
PB16	PB15	33	2 @ 125'	250'
PB18	CONTROLLER	35*16*18*20*4	2 @ 560'	1160'
PB19	CONTROLLER	36*35*34*16*18*20*4	2 @ 605'	1210'
TOTAL				4425'

SYSTEM DETECTOR DESIGNATIONS

SDEBD - SYSTEM DETECTOR EASTBOUND DEPARTURE
SDWBA - SYSTEM DETECTOR WESTBOUND APPROACH

NOTES:

1. THE FOLLOWING LOOPS SHALL BE WIRED IN SERIES:

DL (4) 1A & DL (4) 1B-1 LOOP LEAD-IN CABLE

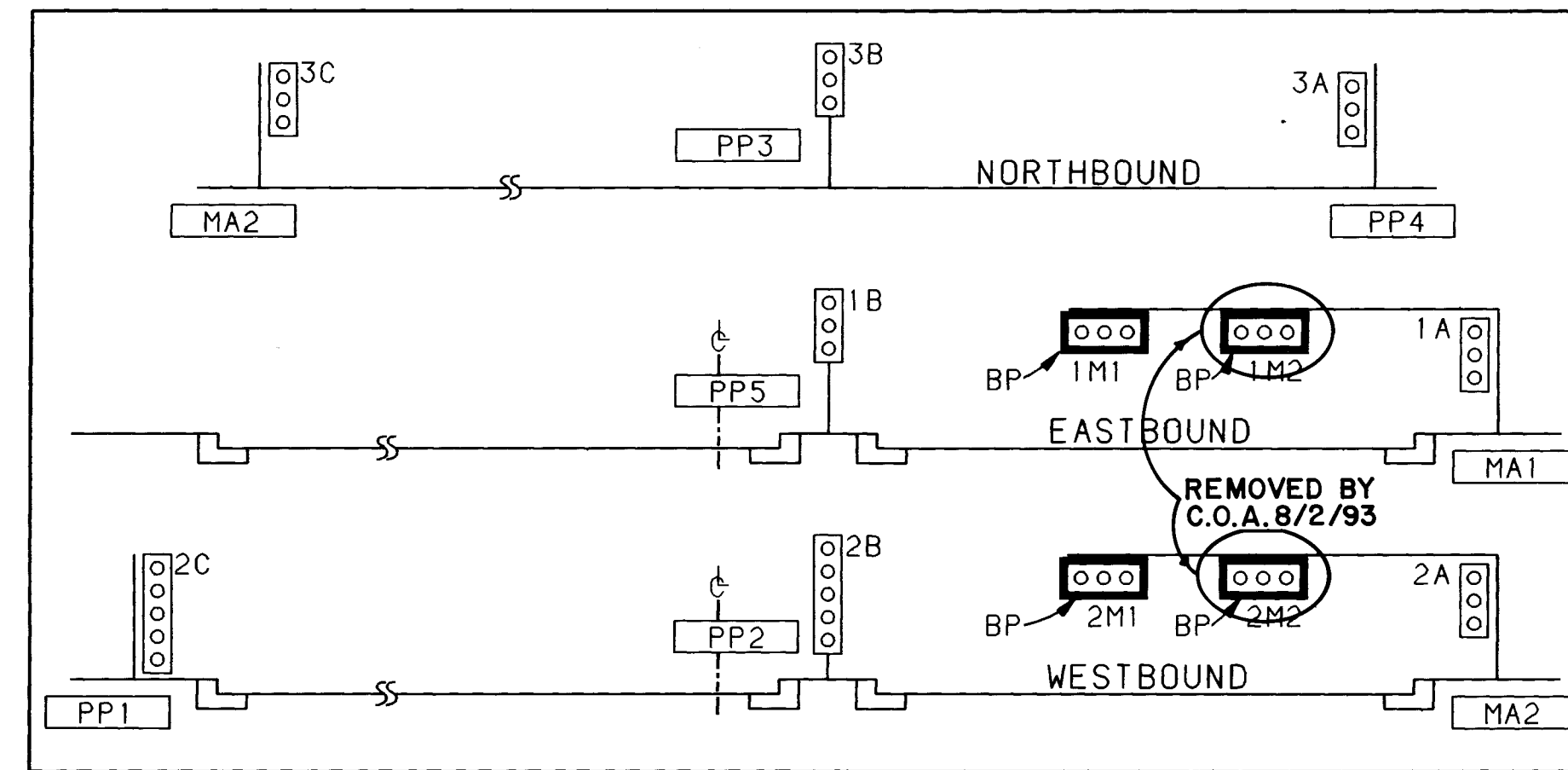
DL (4) 2A & DL (4) 2B-1 LOOP LEAD-IN CABLE

DL (8) 1A & DL (8) 1B-1 LOOP LEAD-IN CABLE

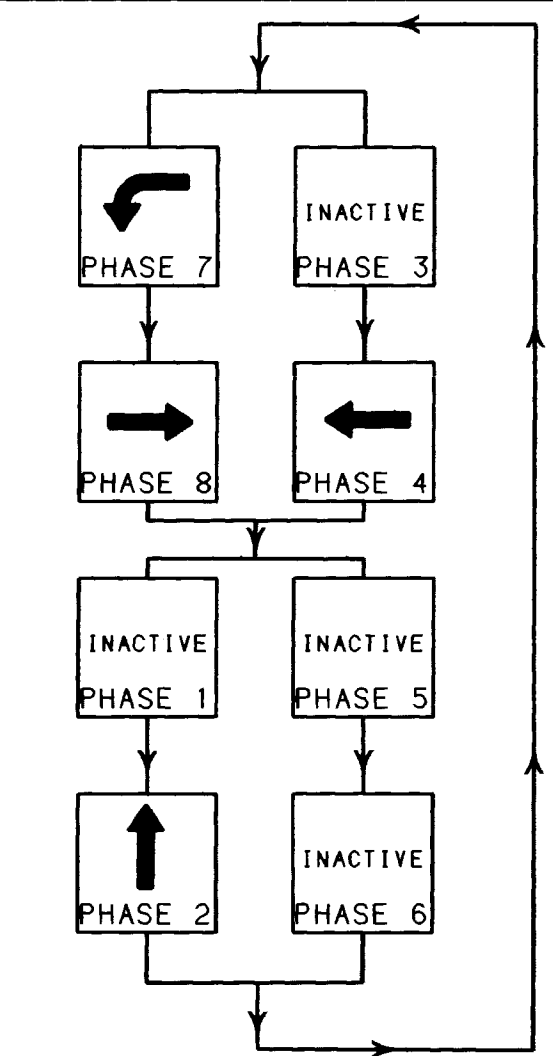
DL (8) 2A & DL (8) 2B-1 LOOP LEAD-IN CABLE

2. SYSTEM DETECTOR LOOPS SHALL HAVE 4 TURNS OF LOOP WIRE AND 1 LOOP LEAD-IN CABLE PER EACH.

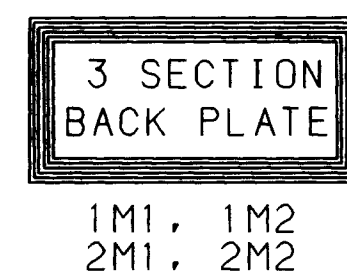
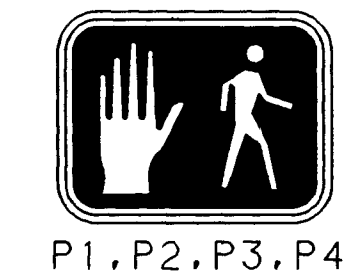
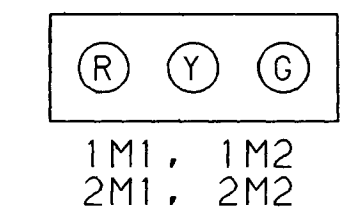
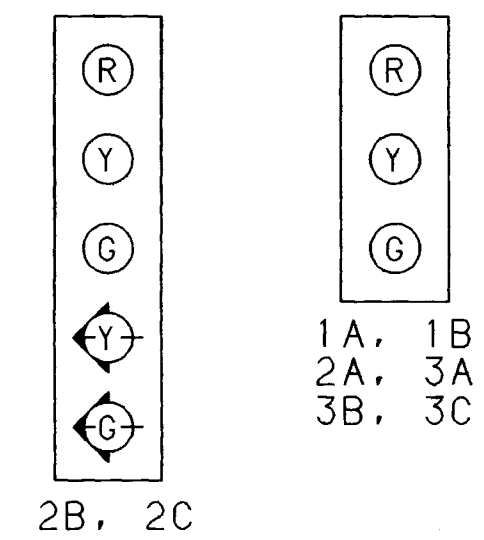
TRAFFIC SIGNAL CONFIGURATION BY APPROACH



SIGNAL PHASING



TYPICAL SIGNAL FACE LENSE ARRANGEMENTS



FLASH CONDITION

RED BALL HEADS: 1A, 1B, 1M1, 1M2, 2A, 2B, 2C, 2M1, 2M2

NOTES:

1. PULL BOXES 1 THROUGH 10 ARE LARGE SIZE, AND PULL BOXES 11 THROUGH 19 ARE STANDARD SIZE.

CABINETS

I.D. NO.	TYPE	FOUNDATION
CC1	P	CONTROLLER

SIGNAL POLES AND MASTARMS

I.D. NO.	TYPE	FOUNDATION
MA1	MASTARM - 25'	MASTARM
MA2	MASTARM - 30'	MASTARM
PP1	PED POLE - 13'	PEDESTAL
PP2	PED POLE - 13'	PEDESTAL
PP3	PED POLE - 13'	PEDESTAL
PP4	PED POLE - 13'	PEDESTAL
PP5	PED POLE - 13'	PEDESTAL

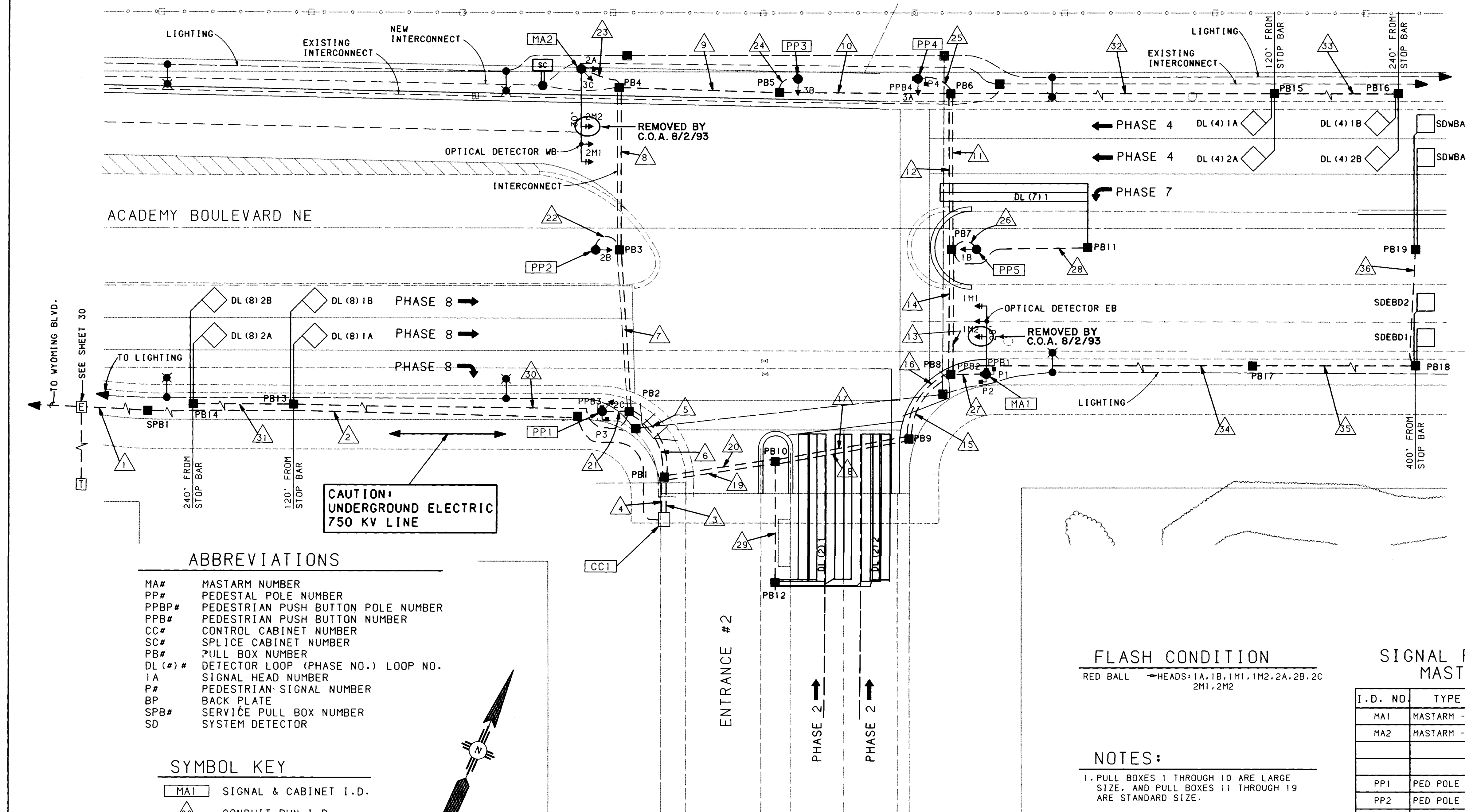
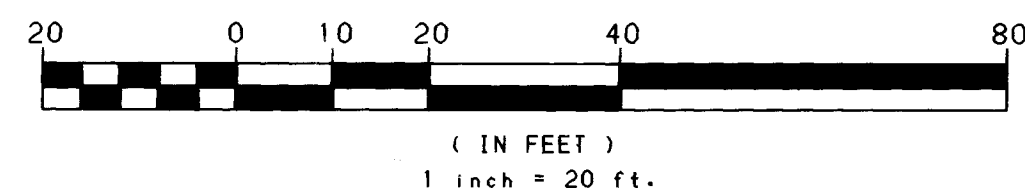
ABBREVIATIONS

MA#	MASTARM NUMBER
PP#	PEDESTAL POLE NUMBER
PPBP#	PEDESTRIAN PUSH BUTTON POLE NUMBER
PPB#	PEDESTRIAN PUSH BUTTON NUMBER
CC#	CONTROL CABINET NUMBER
SC#	SPLICE CABINET NUMBER
PB#	PULL BOX NUMBER
DL (#) #	DETECTOR LOOP (PHASE NO.) LOOP NO.
1A	SIGNAL HEAD NUMBER
P#	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
SPB#	SERVICE PULL BOX NUMBER
SD	SYSTEM DETECTOR

SYMBOL KEY

MA1	SIGNAL & CABINET I.D.
99	CONDUIT RUN I.D.

GRAPHIC SCALE



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL				
CONTRACTOR	WORK	DATE	NO.	CONTRACTOR	WORK	DATE	NO.	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
STATIONED BY	DATE	NO.		STATIONED BY	DATE	NO.		NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
ACCEPTANCE BY	DATE	NO.		ACCEPTANCE BY	DATE	NO.		NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
FIELD CHECK BY	DATE	NO.		FIELD CHECK BY	DATE	NO.		NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
DRAWINGS	DATE	NO.		DRAWINGS	DATE	NO.		NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
CORRECTED BY	DATE	NO.		CORRECTED BY	DATE	NO.		NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
RECORDED BY	DATE	NO.		RECORDED BY	DATE	NO.		NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
NO.				NO.				NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE

PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS

PB 1, 4 R10 - 4b R
PB 2, 3 R10 - 4b L
20 4555.91 3493

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
ACADEMY/ENTRANCE 2
TRAFFIC SIGNAL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	2-17-93	2-17-93	WATER	2-17-93	2-17-93
TRANSPORTATION	2-17-93	2-17-93	WASTE WATER	2-17-93	2-17-93
HYDROLOGY	2-17-93	2-17-93	TRAF OPER	2-17-93	2-17-93

PROJECT NO. 4555.91 MAP NO. E-19 SHEET 34 OF 34

INTERSECTION "BOX" RUNS
SIGNAL RUNS
LOOP LEAD-IN RUNS
SIGNAL CABLES FOR INDIVIDUAL POLES

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 #10	SCC #6	DLIC	CC 6	CC 12	OPTICOM CABLE	OTHER		
	1"	2"	3"			(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)	(# # ft)		
1		300'		REC	METER TO SPB1					3 • 305'							
2		300'		REC	SPB1 TO CC1					3 • 305'							
3			15'	REC	CC1 TO PB1	1 • 20'		2 • 20'	1 • 20'								
4			15'	REC	CC1 TO PB1						11 • 20'			2•20'			
5			30'	REC	PB1 TO PB2	1 • 35'		2 • 35'	1 • 35'								
6			30'	REC	PB1 TO PB2						2 • 35'				1•35'		
7			55'	REC	PB2 TO PB3	1 • 60'		2 • 60'	1 • 60'						1•60'		
8			55'	REC	PB3 TO PB4	1 • 60'		2 • 60'	1 • 60'						1•60'		
9			55'	REC	PB4 TO PB5	1 • 60'		2 • 60'	1 • 60'								
10			60'	REC	PB5 TO PB6	1 • 65'		2 • 65'	1 • 65'								
11			55'	REC	PB6 TO PB7	1 • 60'		2 • 60'	1 • 60'								
12			55'	REC	PB6 TO PB7						2 • 60'						
13			40'	REC	PB7 TO PB8	1 • 45'		2 • 45'	1 • 45'								
14			40'	REC	PB7 TO PB8						3 • 45'						
15			30'	REC	PB8 TO PB9	1 • 35'		2 • 35'	1 • 35'								
16			30'	REC	PB8 TO PB9						7 • 35'			1•35'			
17			45'	REC	PB9 TO PP10	1 • 50'		2 • 50'	1 • 50'								
18			45'	REC	PB9 TO PB10						7 • 50'			1•50'			
19			40'	REC	PB10 TO PB11	1 • 45'		2 • 45'	1 • 45'								
20			40'	REC	PB10 TO PB11						9 • 45'			1•45'			
21		10'		REC	PB2 TO PP1	2 • 15'	1 • 15'										
22		10'		REC	PB3 TO PP2		1 • 15'										
23		15'		REC	PB4 TO MA2	4 • 20'								1•20'			
24		10'		REC	PB5 TO PP3	1 • 15'											
25		10'		REC	PB6 TO PP4	3 • 15'											
26		10'		REC	PB7 TO PP5	1 • 15'											
27		10'		REC	PB8 TO MA1	7 • 15'								1•15'			
28		45'		REC	PB7 TO PB11						1 • 50'						
29		45'		REC	PB10 TO PB12						2 • 50'						
30		120'		REC	PB2 TO PB13						2 • 125'						
31		120'		REC	PB13 TO PB14						2 • 125'						
32		120'		REC	PB6 TO PB15						2 • 125'						
33		120'		REC	PB15 TO PB16						2 • 125'						
34		200'		REC	PB8 TO PB17						4 • 205'						
35		200'		REC	PB17 TO PB18						4 • 205'						
36		40'		REC	PB18 TO PB19						2 • 45'						
	75'			REC	PB'S TO CURB				DETECTOR	STUB-OUTS							
MA1	NA	NA	NA	NA	BASE TO 1M1	1• 45'											
MA1	NA	NA	NA	NA	BASE TO 1M2	1• 35'											
MA1	NA	NA	NA	NA	BASE TO 1A	1• 15'											
MA1	NA	NA	NA	NA	BASE TO P1 & P2	2• 15'											
MA1	NA	NA	NA	NA	BASE TO PPB1 & PPB2	2• 5'											
MA2	NA	NA	NA	NA	BASE TO 2M1	1• 50'								1•50'			
MA2	NA	NA	NA	NA	BASE TO 2M2	1• 40'											
MA2	NA	NA	NA	NA	BASE TO 2A	1• 15'											
MA2	NA	NA	NA	NA	BASE TO 3C	1• 15'											
PP1	NA	NA	NA	NA	BASE TO 2C		1• 15'										
PP1	NA	NA	NA	NA	BASE TO P3	1• 15'											
PP1	NA	NA	NA	NA	BASE TO PPB3	1• 5'											
PP2	NA	NA	NA	NA	BASE TO 2B		1• 15'										
PP3	NA	NA	NA	NA	BASE TO 3B	1• 15'											
PP4	NA	NA	NA	NA	BASE TO 3A	1• 15'											
PP4	NA	NA	NA	NA	BASE TO P4	1• 15'											
PP4	NA	NA	NA	NA	BASE TO PPB4	1• 5'											
PP5	NA	NA	NA	NA	BASE TO 1B	1• 15'											

DETECTOR LOOPS

LOOP I.D.	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO.	CHANNEL		L	W	S	T		
DL (2) 1	PRESENCE	DELAY 3	TWO	CH. 1	OP	50'	6'	5'	5'	449'	167'
DL (2) 2	PRESENCE	DELAY 3	TWO	CH. 2	OP	50'	6'	15'	5'	469'	177'
DL (7) 1	PRESENCE	DELAY 3	FIVE	CH. 1	OP	50'	6'	5'	15'	469'	167'
DL (4) 1A	PRESENCE	EXTEND 3	SIX	CH. 1	EC	6'	6'	5'	5'	97'	29'
DL (4) 1B	PRESENCE	EXTEND 3	SIX	CH. 1	EC	6'	6'	5'	5'	97'	29'
DL (4) 2A	PRESENCE	EXTEND 3	SIX	CH. 2	EC	6'	6'	15'	5'	117'	39'
DL (4) 2B	PRESENCE	EXTEND 3	SIX	CH. 2	EC	6'	6'	15'	5'	117'	39'
SDWBA1	PULSE		SD-1	CH. 1	SD	6'	6'	15'	10'	141'	39'
SDWBA2	PULSE		SD-1	CH. 2	SD	6'	6'	5'	10'	131'	29'
SDEBD1	PULSE		SD-2	CH. 1	SD	6'	6'	15'	5'	117'	39'
SDEBD2	PULSE		SD-2	CH. 2	SD	6'	6'	5'	5'	121'	29'
DL (8) 1A	PRESENCE	EXTEND 3	SEVEN	CH. 1	EC	6'	6'	5'	5'	97'	29'
DL (8) 1B	PRESENCE	EXTEND 3	SEVEN	CH. 1	EC	6'	6'	5'	5'	97'	29'
DL (8) 2A	PRESENCE	EXTEND 3	SEVEN	CH. 2	EC	6'	6'	15'	5'	117'	39'
DL (8) 2B	PRESENCE	EXTEND 3	SEVEN	CH. 2	EC	6'	6'	15'	5'	117'	39'
TOTALS 2753 LF 919 LF											

QUANTITY ESTIMATING ASSUMPTIONS:

LOOP WIRE		6' X 30' OP LOOP = (8•L) + (4•W) + (2•S) + (2•T) + 5 = 269 + 2(S+T)
		6' X 40' OP LOOP = (8•L) + (4•W) + (2•S) + (2•T) + 5 = 349 + 2(S+T)
		6' X 50' OP LOOP = (8•L) + (4•W) + (2•S) + (2•T) + 5 = 429 + 2(S+T)
		6' X 6' EC LOOP = (6•L) + (6•W) + (2•S) + (2•T) + 5 = 77 + 2(S+T)
		6' X 6' SD LOOP = (8•L) + (8•W) + (2•S) + (2•T) + 5 = 101 + 2(S+T)
PAVEMENT SAWCUT		6' X 30' OP LOOP = (3•L) + (2•W) + S = 102 + S
		6' X 40' OP LOOP = (3•L) + (2•W) + S = 132 + S
		6' X 50' OP LOOP = (3•L) + (2•W) + S = 162 + S
		6' X 6' EC LOOP = (2•L) + (2•W) + S = 24 + S
		6' X 6' SD LOOP = (2•L) + (2•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)

FUNCTION CHART - 115 VOLT CIRCUIT

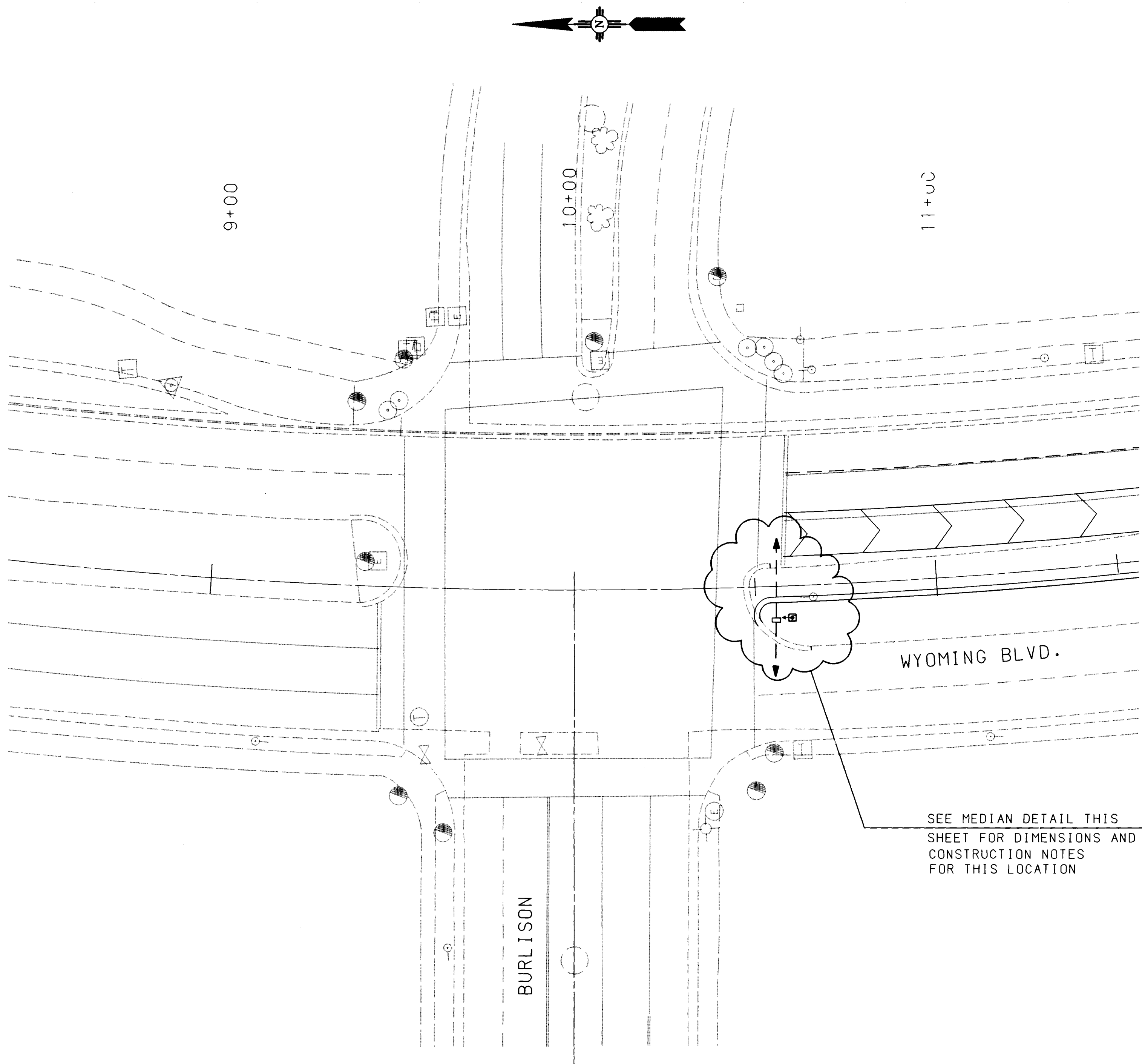
CONDUCTOR			RING 1 - MULTI CONDUCTOR CABLE 20		RING 2 - MULTI CONDUCTOR CABLE 20	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	-	SPARE	SPARE	SPARE	SPARE
2	WHITE	-	SPARE	SPARE	SPARE	SPARE
3	RED	-	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	-	PHASE 1 GREEN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

FUNCTION CHART - 24 VOLT CIRCUIT

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

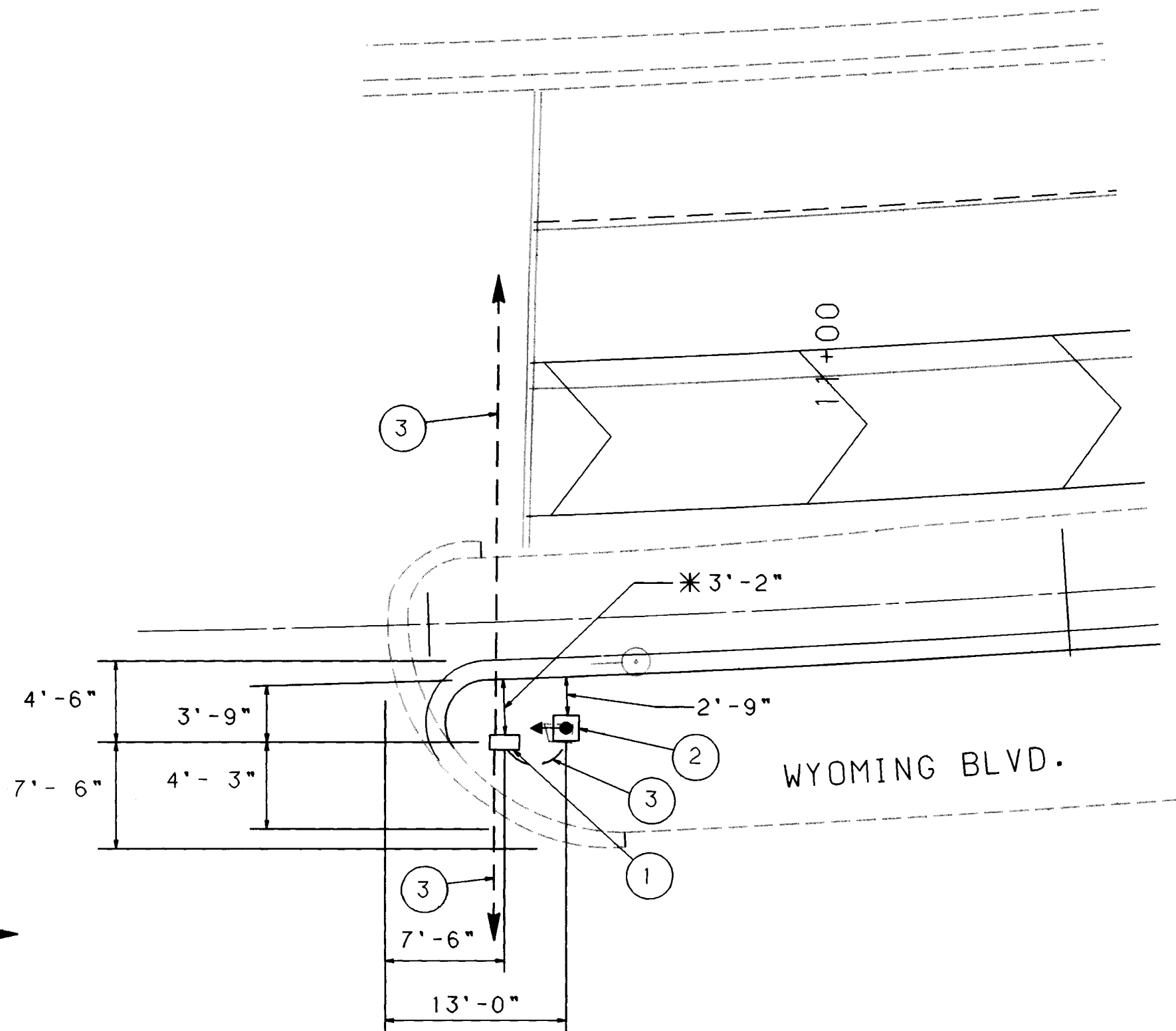
NOTES:

- 1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS"
- 2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH R



INTERSECTION PLAN

SCALE: 1"=20'



MEDIAN DETAIL

SCALE: 1"=10'

SEE MEDIAN DETAIL THIS
SHEET FOR DIMENSIONS AND
CONSTRUCTION NOTES
FOR THIS LOCATION

* CONTRACTOR SHALL FIELD VERIFY DISTANCES
AND LOCATIONS OF EXISTING ELECTRICAL
PULL BOX AND SIGNAL PEDESTAL TO INSURE
THAT ADEQUATE CLEARANCE FROM MEDIAN
CURBS WILL BE MAINTAINED UPON COMPLETION
OF WIDENING NORTHBOUND WYOMING.

CONTRACTOR SHALL VERIFY CLEARANCES WITH
TRAFFIC ENGINEERING OPERATIONS.

KEYED NOTES:

- EXISTING ELECTRICAL PULL BOX
TO REMAIN IN PLACE.
- EXISTING SIGNAL FOUNDATION,
PEDESTAL POLE AND SIGNAL HEAD
ASSEMBLY TO REMAIN IN PLACE.
- EXISTING ELECTRICAL CONDUIT
AND CABLES TO REMAIN. CON-
TRACTOR TO REPLACE IF DAMAGED
BY MEDIAN CONSTRUCTION AS
DIRECTED BY THE CITY TRAFFIC
ENGINEERING OPERATIONS.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		FIELD NOTES		NO.		BY		DATE	
CONTRACTOR	NO.	INSPECTOR'S	DATE	NO.	BY	NO.	BY	NO.	BY	NO.	BY	NO.	BY	NO.	BY
WORKED BY		INSPECTED BY	DATE												
ACCEPTANCE BY		FIELD LOCATION BY	DATE												
DRAWINGS		CORRECTED BY	DATE												
MICRO-FILM INFORMATION		RECORDED BY	DATE												
NO.															



26 4555.91 3693



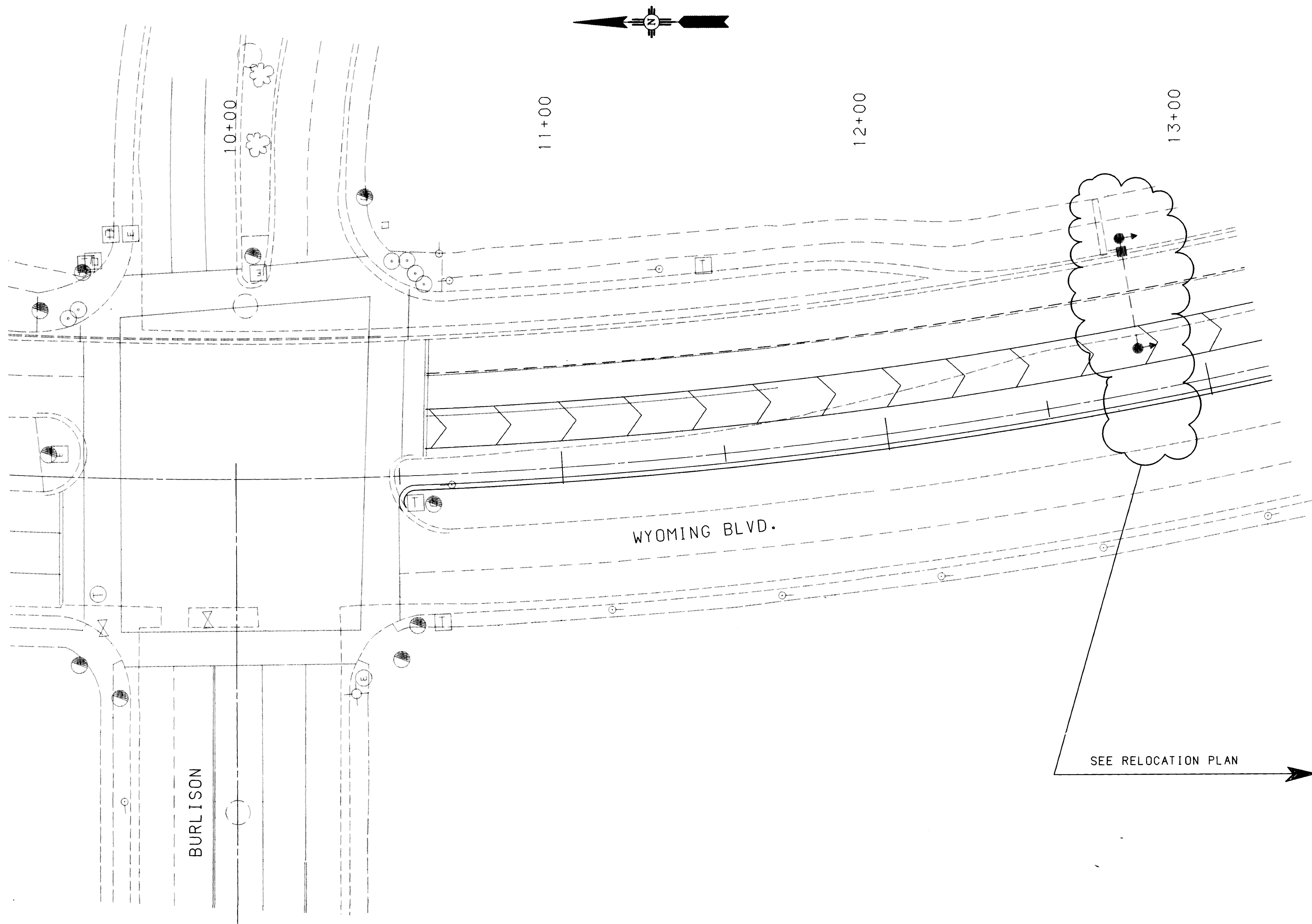
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP



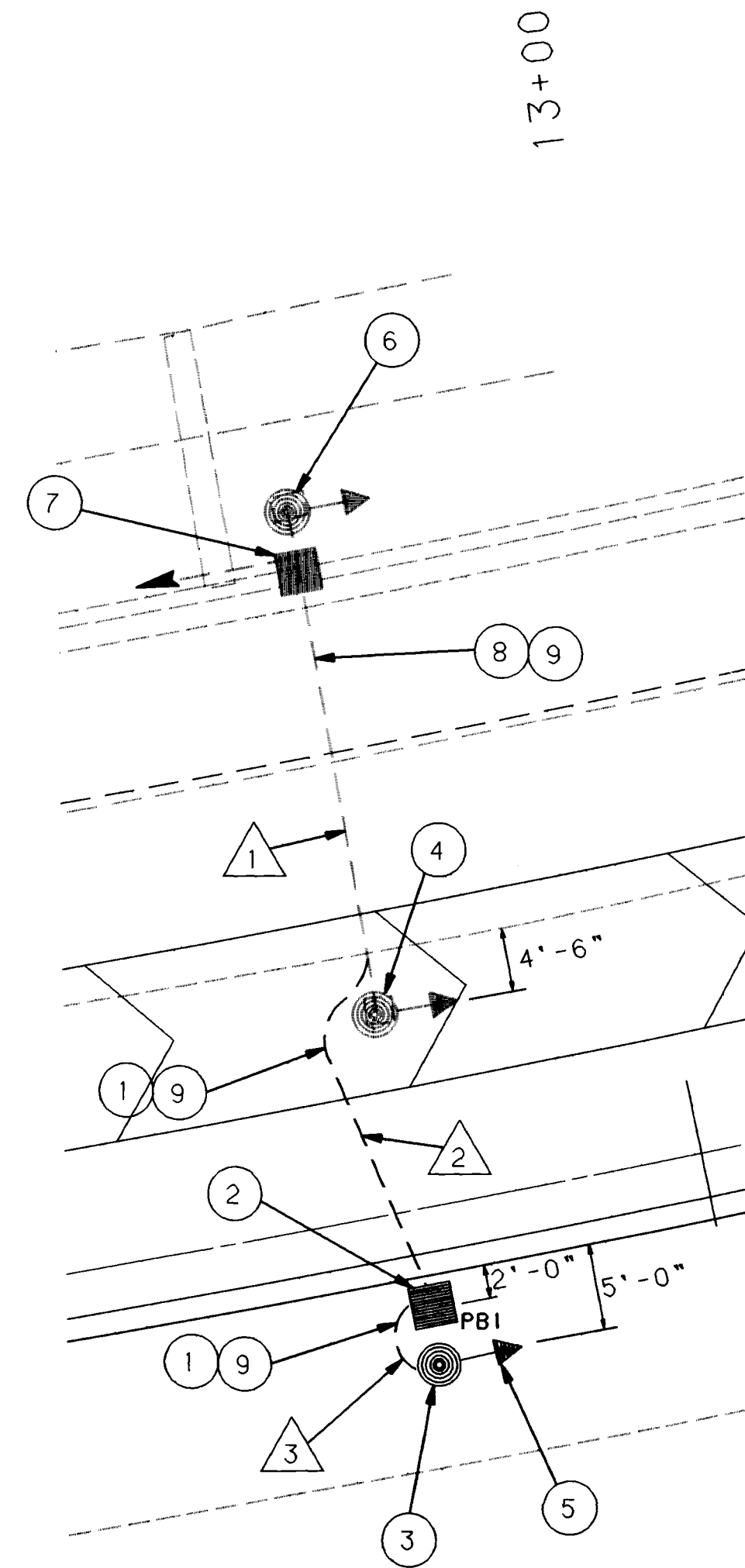
TITLE: SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
WYOMING/BURLISON
TRAFFIC SIGNAL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAF OPER	<i>[Signature]</i>	2-11-93

PROJECT NO.	4555.91	MAP NO.	E-19	SHEET	36	OF	36
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LOCATION PLAN
SCALE: 1"=20'



RELOCATION PLAN
SCALE: 1"=10'

RUN #	SIZE	LENGTH	DESCRIPTION
1	2"	30'	EXISTING CONDUIT TO REMAIN
2	2"	30'	CONNECT FROM EXISTING CONDUIT #1 TO NEW PULL BOX #1
3	2"	10'	CONNECT FROM NEW PULL BOX #1 TO NEW FOUNDATION FOR RELOCATED SCHOOL FLASHER

SYCAMORE PLAZA - WYOMING BOULEVARD
SCHOOL FLASHER RELOCATION PLAN
AS SHOWN

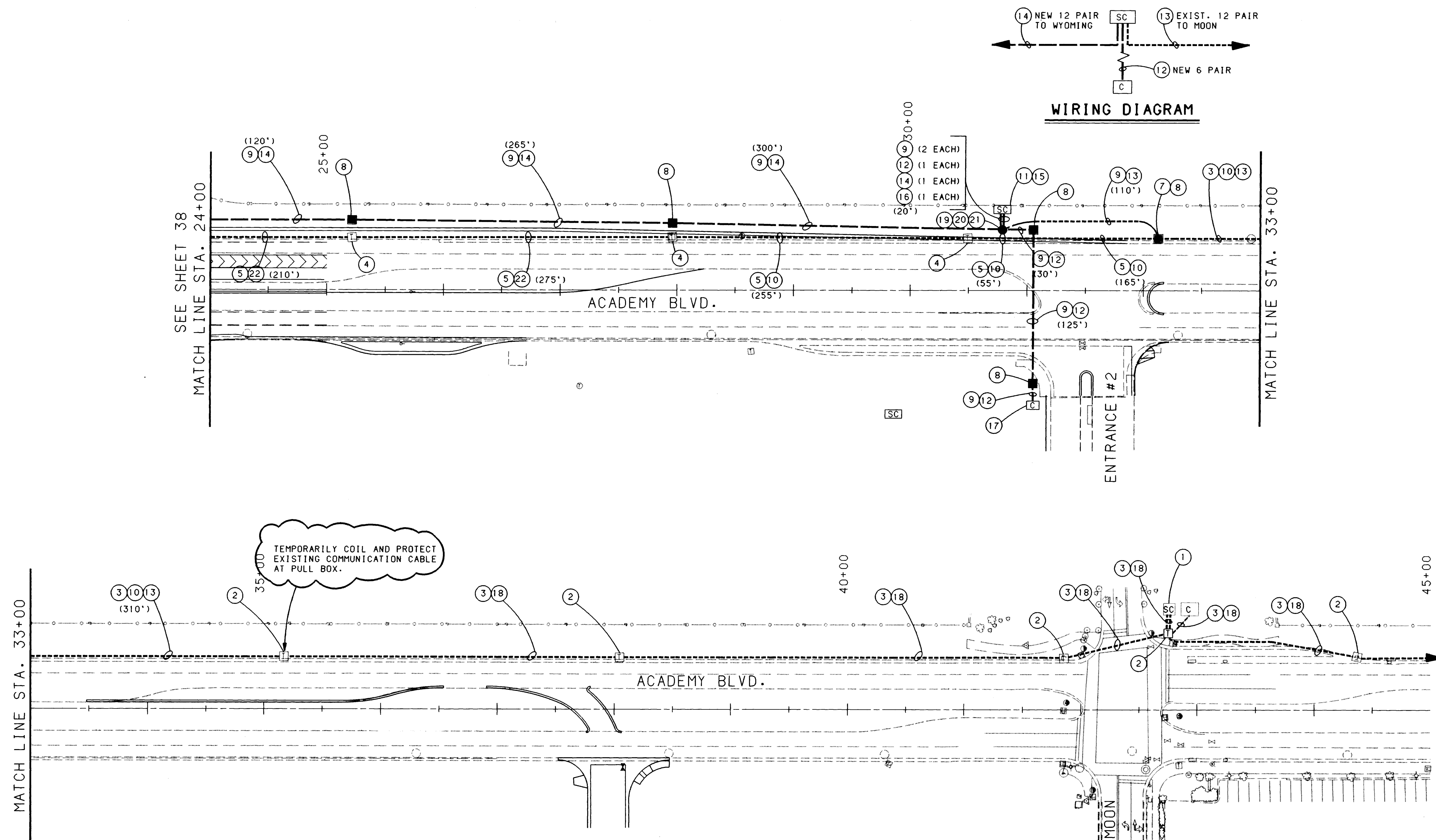
NOTES:
1. SCHOOL FLASHER SHALL BE RELOCATED DURING NON-SCHOOL HOURS AND SHALL BE OPERATIONAL DURING ALL SCHOOL HOURS.

- KEYED NOTES:
1. INSTALL NEW 2" RIGID ELECTRICAL CONDUIT (PVC).
 2. INSTALL NEW STANDARD SIZE ELECTRICAL PULL BOX.
 3. INSTALL NEW PEDESTAL FOUNDATION FOR SCHOOL FLASHER.
 4. EXISTING SCHOOL FLASHER TO BE RELOCATED ON TO NEW PEDESTAL FOUNDATION. REMOVE EXISTING FOUNDATION.
 5. RELOCATED POSITION OF SCHOOL FLASHER. INSTALL ONTO NEW FOUNDATION.
 6. EXISTING SCHOOL FLASHER TO REMAIN.
 7. EXISTING ELECTRICAL PULL BOX TO REMAIN.
 8. EXISTING 2" RIGID ELECTRICAL CONDUIT TO REMAIN.
 9. PULL NEW CABLE (MATCH EXIST. SIZE AND TYPE) FROM EXISTING PULL BOX ON EAST SIDE OF WYOMING THRU NEW PULL BOX IN MEDIAN TO NEW POSITION OF SCHOOL FLASHER AND RECONNECT

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		MICRO-FILM INFORMATION	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
WORKED BY	DATE	INSPECTOR'S ACCEPTANCE BY	DATE	FIELD NOTES	DATE	ENGINEER'S SEAL	DATE	REVISIONS	DATE	DESIGNED BY	DATE
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DRAWN BY	DATE
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	CHECKED BY	DATE

26 4555.913793

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING BLVD. SCHOOL FLASHER RELOCATION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B. G. [Signature]	2-17-93	WATER	N/A [Signature]	2-17-93
TRANSPORTATION	N/A [Signature]	2-17-93	WASTE WATER	N/A [Signature]	2-17-93
HYDROLOGY	N/A [Signature]	2-17-93	TRAF. OPER.	N/A [Signature]	2-17-93
DRAWING NO. 4555.91		MAP NO. E-19		SHEET 37 OF	

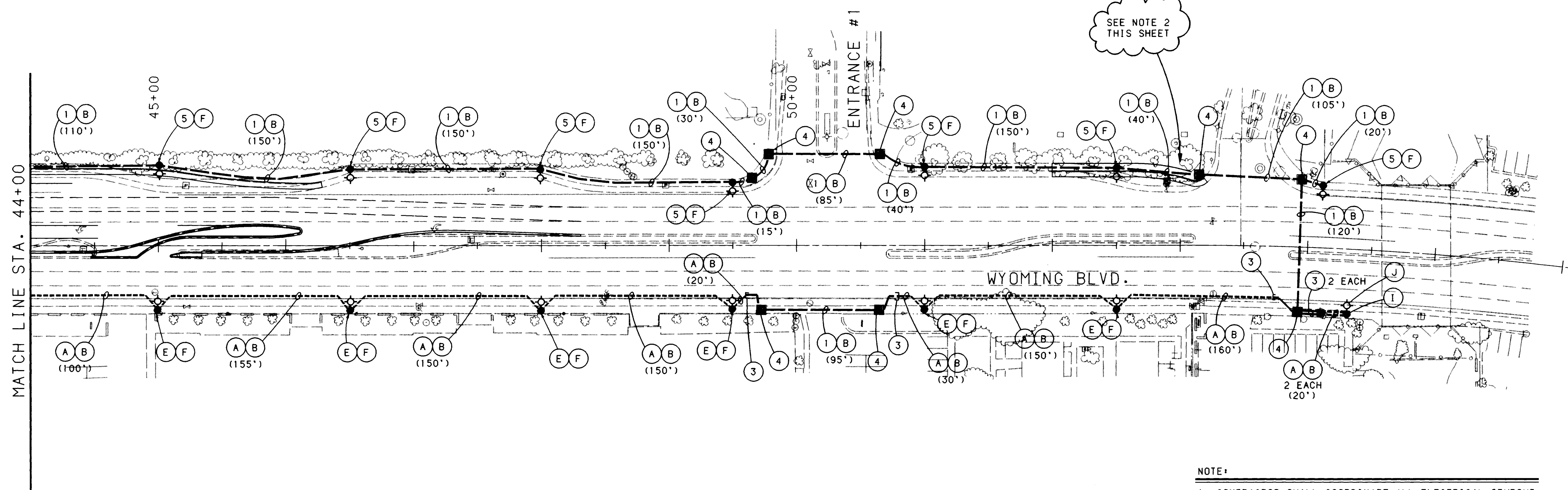
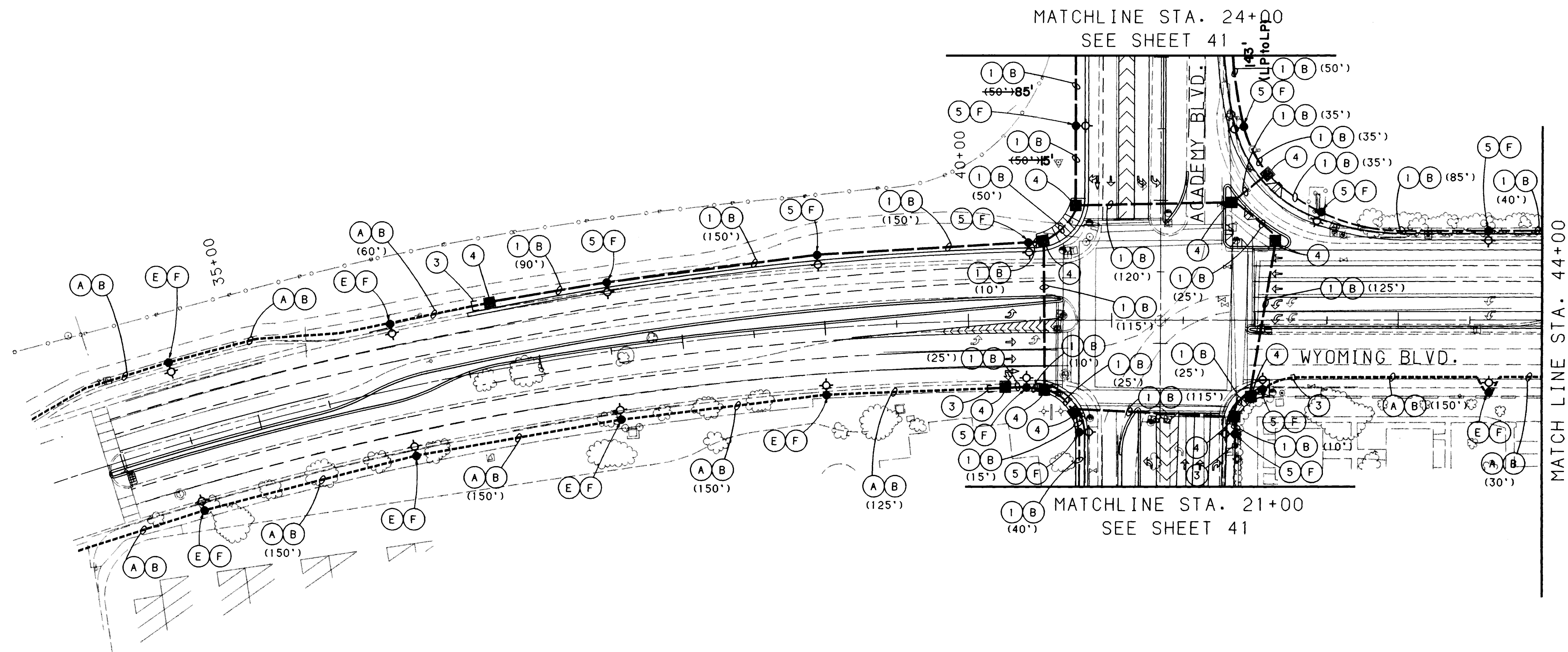


WIRING DIAGRAM

SCALE: 1"=50'

- NOTE:

KEYED NOTES

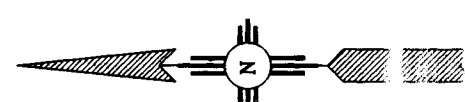


NOTE:

1. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL STUBOUT INSTALLATION AND/OR CONNECTIONS TO EXISTING STUB-OUTS WITH PNM.
2. CONTRACTOR SHALL COORDINATE LOCATION OF CONDUITS, FOUNDATIONS, AND PULL BOXES WITH EXISTING AND NEW LANDSCAPING TO MINIMIZE IMPACT TO SUCH LANDSCAPING.
3. BORING, DRILLING, PUSHING, AND TRENCHING INCLUDING REMOVAL AND REPLACEMENT OF ASPHALT OR CONCRETE PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER AND LANDSCAPING FOR INSTALLATION OF TRAFFIC SIGNAL AND STREET LIGHTING PULL BOXES, CONDUITS, FOUNDATIONS, AND CABINETS WILL BE CONSIDERED INCIDENTAL IN THOSE AREAS NOT SHOWN ON OTHER PLAN SHEETS TO BE REMOVED AND REPLACED.

SYCAMORE PLAZA - LIGHTING PLAN
WYOMING BOULEVARD

SCALE: 1"=50'



KEYED NOTES

WORK TO BE COMPLETED
BY **CONTRACTOR**

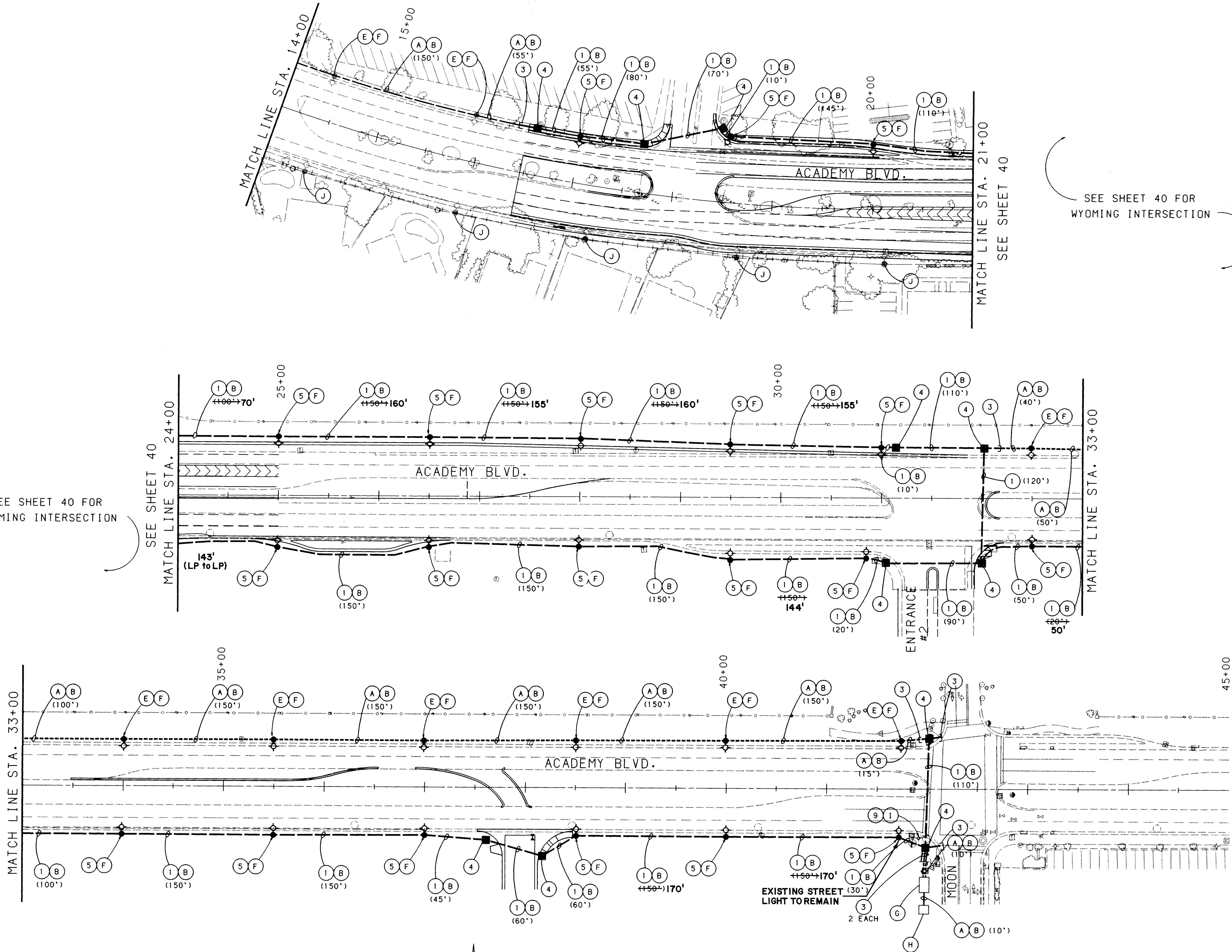
1. INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" FOR STREET LIGHTING.
2. PULL TWO NEW SINGLE CONDUCTORS, #2 COPPER AND ONE NEW SINGLE CONDUCTOR #6 BARE COPPER FOR NEW STREET LIGHTING.
3. INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" STUBOUT (10') AND CAP.
4. INSTALL NEW ELECTRICAL PULL BOX, STANDARD SIZE, FOR STREET LIGHTING.
5. BUILD NEW STREET LIGHT FOUNDATION.
6. INSTALL NEW 28' PNM STANDARD, TYPE III, SEMI-CUT-OFF, 250W, 240V HPS. INSTALL TWO SINGLE CONDUCTORS, #10 FROM POLE BASE TO LUMINAIRE.
7. INSTALL LIGHTING CONTROL CABINET, 10' MINIMUM DISTANCE FROM TRANSFORMER.
8. INSTALL SERVICE CONNECTION (LIGHTING), CONNECT TO TRANSFORMER. TRANSFORMER TO BE INSTALLED BY PNM.

WORK TO BE COMPLETED
BY **PNM**

- A. INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" FOR STREET LIGHTING.
- B. PULL TWO NEW SINGLE CONDUCTORS, #2 COPPER AND ONE NEW SINGLE CONDUCTOR #6 BARE COPPER FOR NEW STREET LIGHTING.
- C. INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" STUBOUT (5') AND CAP.
- D. INSTALL NEW ELECTRICAL PULL BOX, STANDARD SIZE, FOR STREET LIGHTING.
- E. BUILD NEW STREET LIGHT FOUNDATION.
- F. INSTALL NEW 28' PNM STANDARD, TYPE III, SEMI-CUT-OFF, 250W, 240V HPS. INSTALL TWO SINGLE CONDUCTORS, #10 FROM POLE BASE TO LUMINAIRE.
- G. INSTALL LIGHTING CONTROL CABINET, 10' MINIMUM DISTANCE FROM TRANSFORMER.
- H. INSTALL SERVICE CONNECTION (LIGHTING), CONNECT TO TRANSFORMER. TRANSFORMER TO BE INSTALLED BY PNM.
- I. INSTALL TRANSFORMER AND STREET LIGHT CONTACTOR. INSTALL SERVICE RISERS (2 EA.) ON DOUBLE STANDOFF BRACKET, CONNECT TO STUB-OUTS PROVIDED BY CONTRACTOR.
- J. INSTALL LUMINAIRE, TYPE III SEMI-CUTOFF, 250W, 240V HPS ON EXISTING POLE.

20 1995 91140193

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING BLVD. LIGHTING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAF. OPER.	<i>[Signature]</i>	2-17-93
DRAWING NO.	4555.91	MAP NO.	E-19	SHEET	40 OF 40



SYCAMORE PLAZA - LIGHTING PLAN
ACADEMY BOULEVARD

SCALE: 1"=50'

NOTE:

- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL STUBOUT INSTALLATION AND/OR CONNECTIONS TO EXISTING STUBOUTS WITH PNM.
- CONTRACTOR SHALL COORDINATE LOCATION OF CONDUITS, FOUNDATIONS, AND PULLBOXES WITH EXISTING AND NEW LANDSCAPING TO MINIMIZE IMPACT TO SUCH LANDSCAPING.
- BORING, DRILLING, PUSHING, AND TRENCHING INCLUDING REMOVAL AND REPLACEMENT OF ASPHALT OR CONCRETE PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY CUTTERS, WHEELCHAIR RAMPS, CURB & CUTTER AND LANDSCAPING FOR INSTALLATION OF TRAFFIC SIGNAL AND STREET LIGHTING PULL BOXES, CONDUITS, FOUNDATIONS, AND CABINETS WILL BE CONSIDERED INCIDENTAL IN THOSE AREAS NOT SHOWN ON OTHER PLAN SHEETS TO BE REMOVED AND REPLACED.

KEYED NOTES

WORK TO BE COMPLETED
BY **CONTRACTOR**

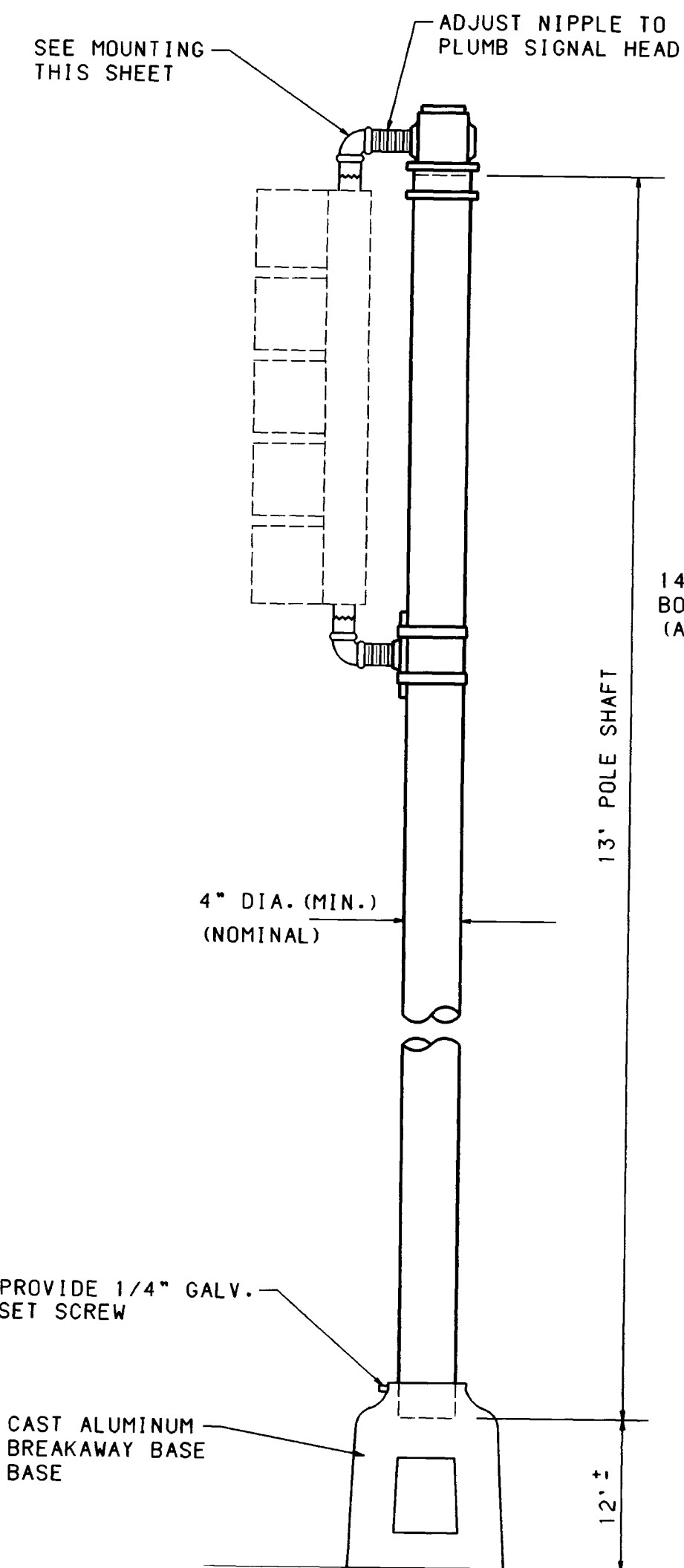
- INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" FOR STREET LIGHTING.
- PULL TWO NEW SINGLE CONDUCTORS, #2 COPPER AND ONE NEW SINGLE CONDUCTOR #6 BARE COPPER FOR NEW STREET LIGHTING.
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- INSTALL NEW ELECTRICAL PULL BOX, STANDARD SIZE, FOR STREET LIGHTING.
- BUILD NEW STREET LIGHT FOUNDATION.
- INSTALL NEW 28" PNM STANDARD, TYPE III, SEMI-CUT-OFF, 250W, 240V HPS. INSTALL TWO SINGLE CONDUCTORS, #10 FROM POLE BASE TO LUMINAIRE.
- INSTALL LIGHTING CONTROL CABINET, 10" MINIMUM, DISTANCE FROM TRANSFORMER.
- INSTALL SERVICE CONNECTION (LIGHTING). CONNECT TO TRANSFORMER. TRANSFORMER TO BE INSTALLED BY PNM.
- REMOVE EXISTING LUMINAIRE FOUNDATION.

WORK TO BE COMPLETED
BY **PNM**

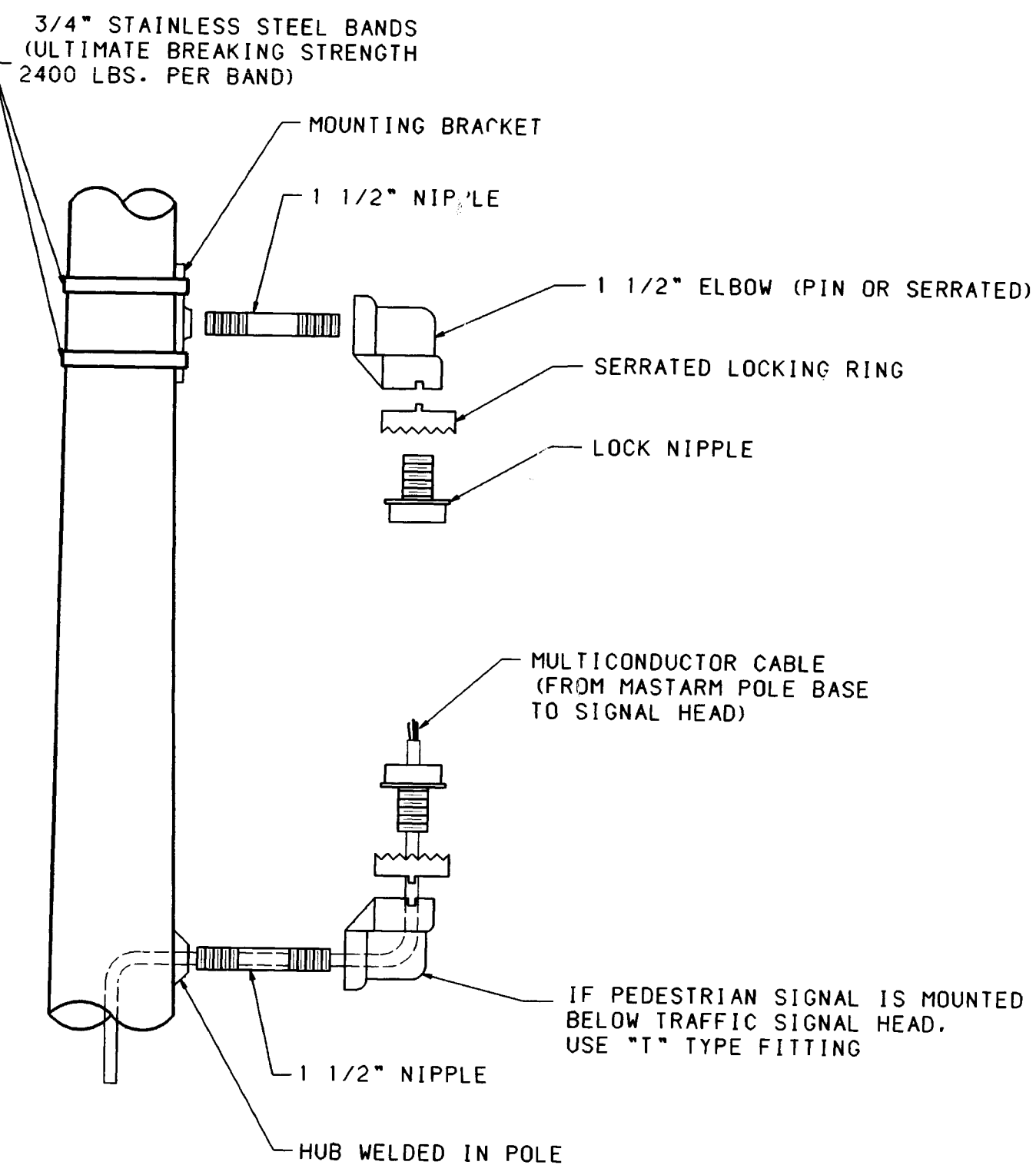
- INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" FOR STREET LIGHTING.
- PULL TWO NEW SINGLE CONDUCTORS, #2 COPPER AND ONE NEW SINGLE CONDUCTOR #6 BARE COPPER FOR NEW STREET LIGHTING.
- INSTALL NEW RIGID ELECTRICAL CONDUIT, 2" STUBOUT (5") AND CAP.
- INSTALL NEW ELECTRICAL PULL BOX, STANDARD SIZE, FOR STREET LIGHTING.
- BUILD NEW STREET LIGHT FOUNDATION.
- INSTALL NEW 28" PNM STANDARD, TYPE III, SEMI-CUT-OFF, 250W, 240V HPS. INSTALL TWO SINGLE CONDUCTORS, #10 FROM POLE BASE TO LUMINAIRE.
- INSTALL LIGHTING CONTROL CABINET, CONNECT TO STUB-OUTS PROVIDED BY CONTRACTOR.
- INSTALL SERVICE CONNECTION (LIGHTING). CONNECT TO TRANSFORMER.
- REMOVE EXISTING LUMINAIRE AND POLE.
- INSTALL LUMINAIRE, TYPE III, SEMI-CUTOFF, 250W, 240V HPS ON EXISTING POLE.

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16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
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751 752 753 754 755 756 757 758 759 760
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771 772 773 774 775 776 777 778 779 780
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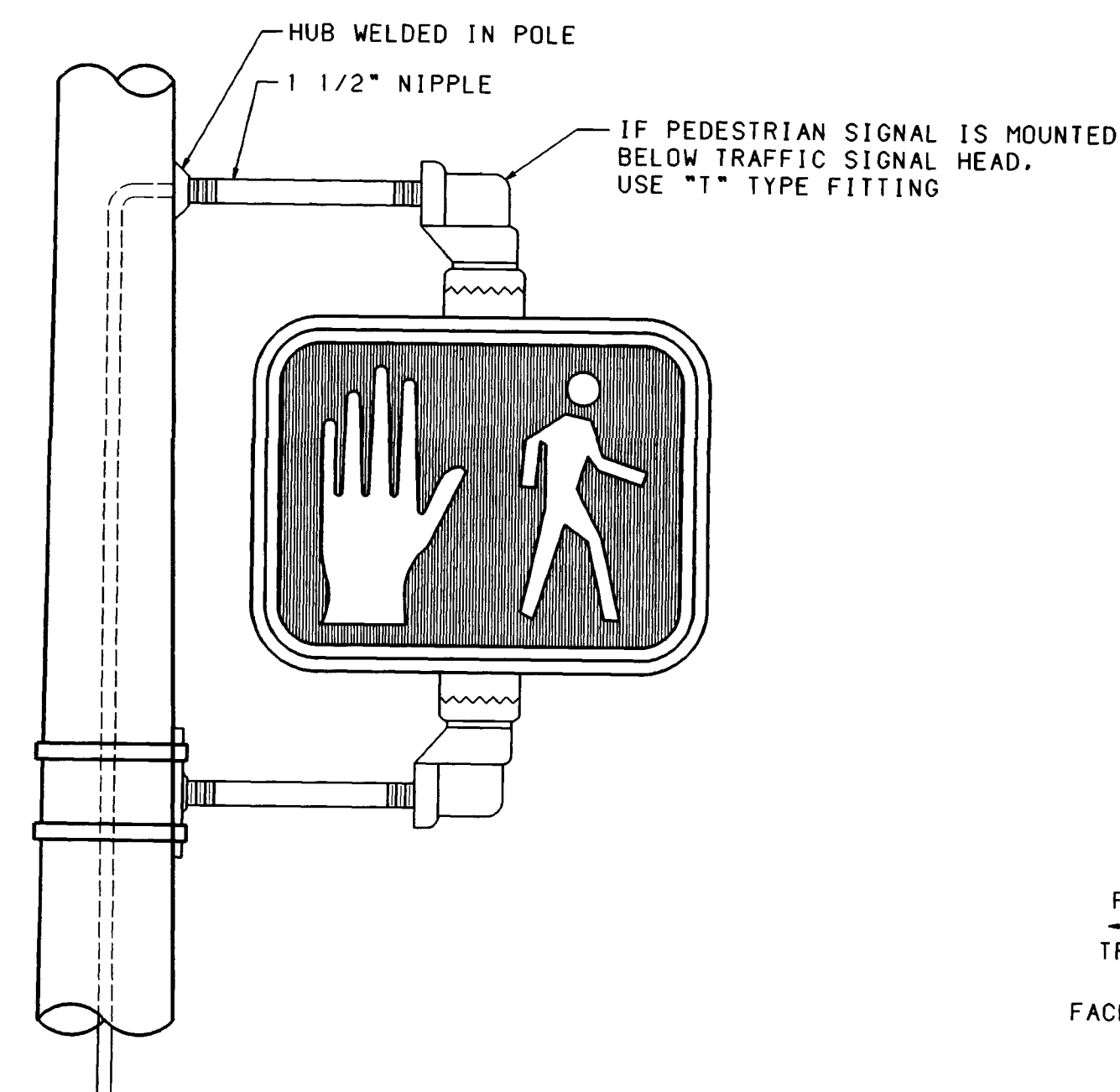
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS ACADEMY BLVD. LIGHTING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	3/1/93	2-17-93	WATER	W. G. Galt	2-17-93
TRANSPORTATION	W. A. Rupp	2-17-93	WASTE WATER		
HYDROLOGY	W. A. Rupp	2-17-93	TRAF. OPER.	W. W.	2-17-93
DRAWING NO. 4555.91		MAP NO. E-19		SHEET 41 OF 41	



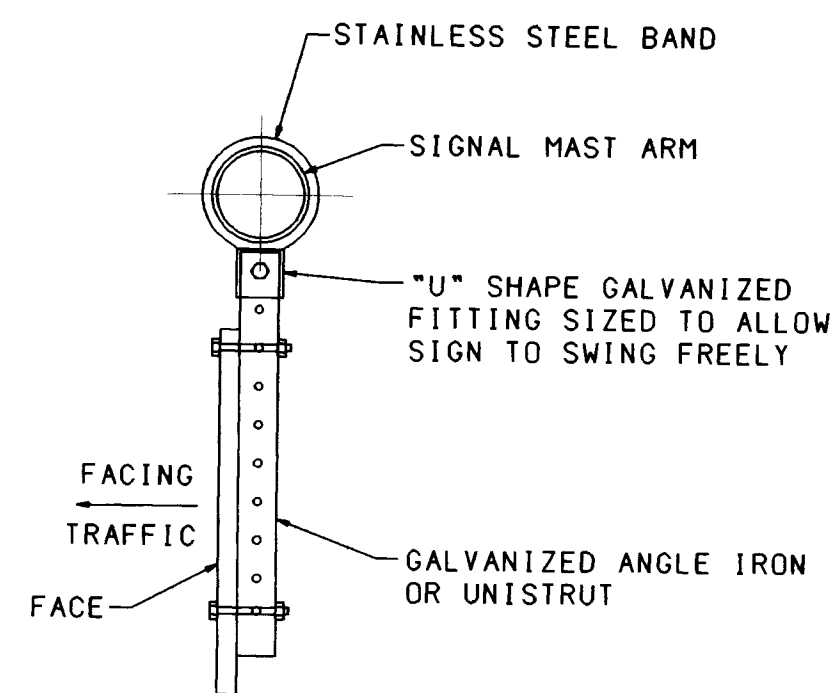
TYPE I
PEDESTAL POLE



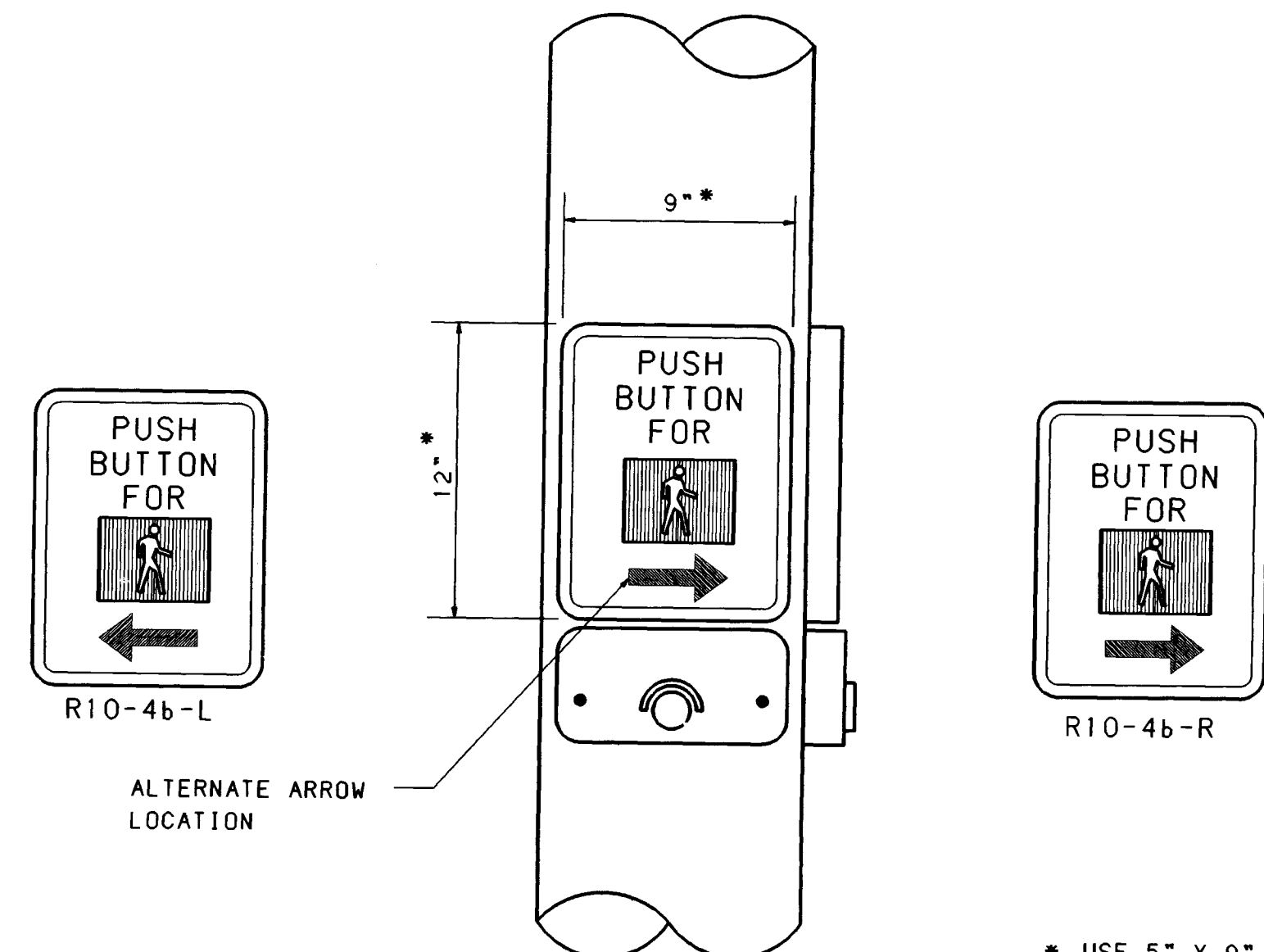
MOUNTING DETAIL
(SIDE OF SHAFT)



PEDESTRIAN SIGNAL



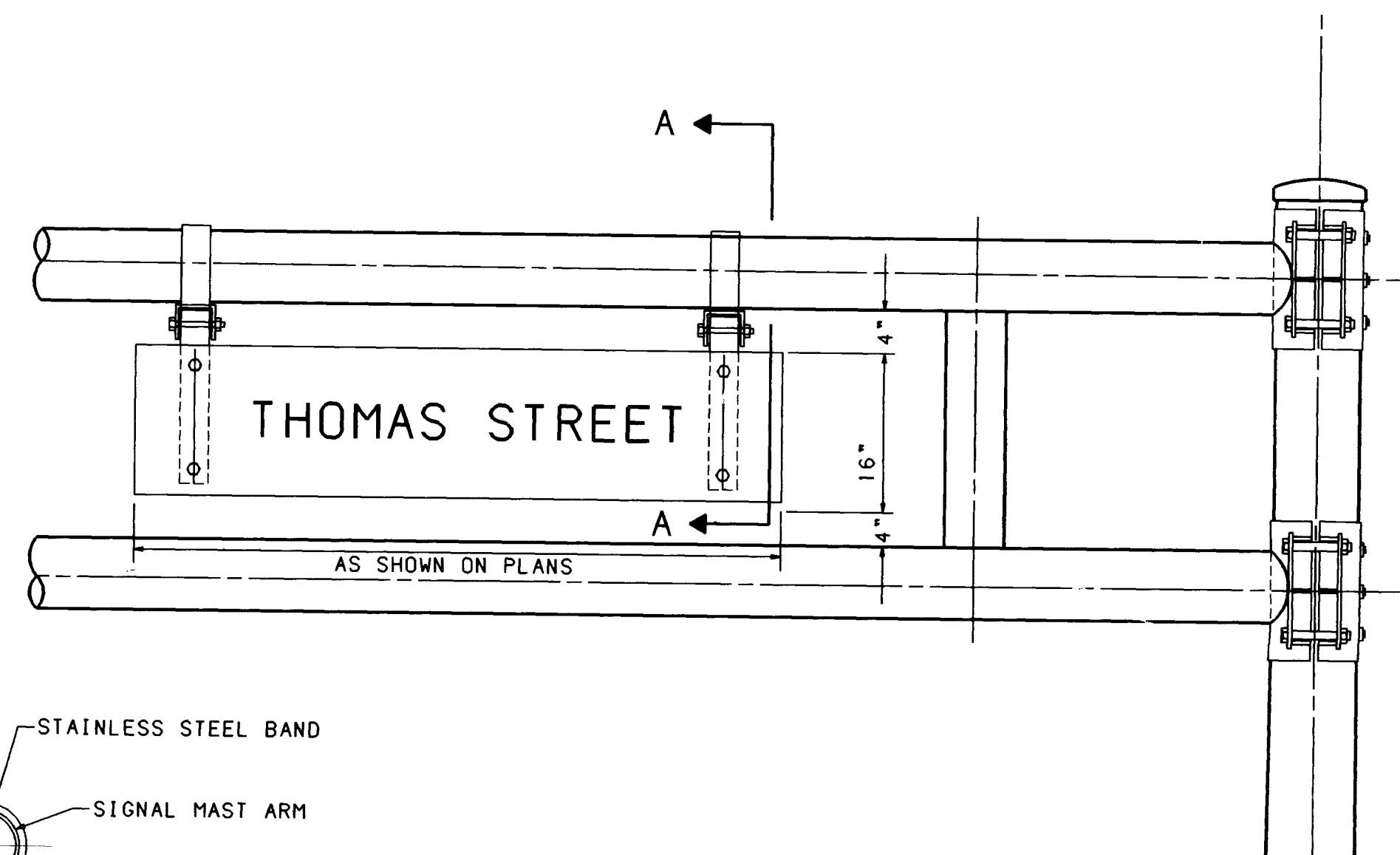
SECTION "A-A"



VIEW "D-D"

PUSH BUTTON DETAIL

* USE 5" X 9" FOR TYPE I PEDESTAL POLES

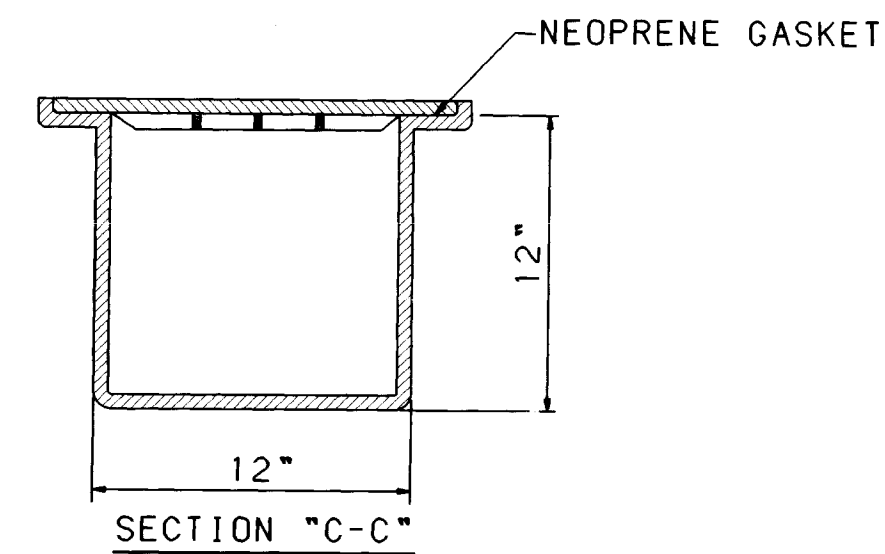


ALUMINUM PANEL SIGN NOTES

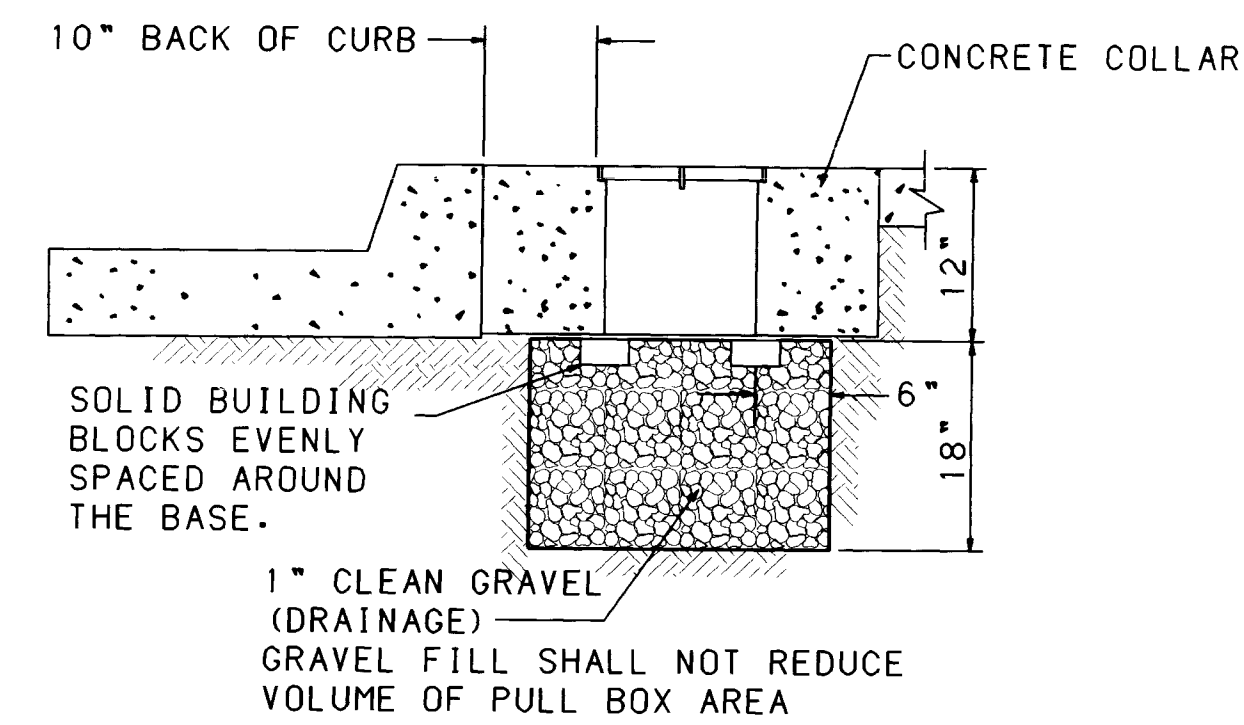
- SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS UP TO 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, BORDER AND BACKGROUND. COLORS: WHITE ON GREEN, SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.

STREET NAME SIGN DETAIL

ENGINEER'S SEAL				SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
				FIELD NOTES								
				NO.	BY	DATE						

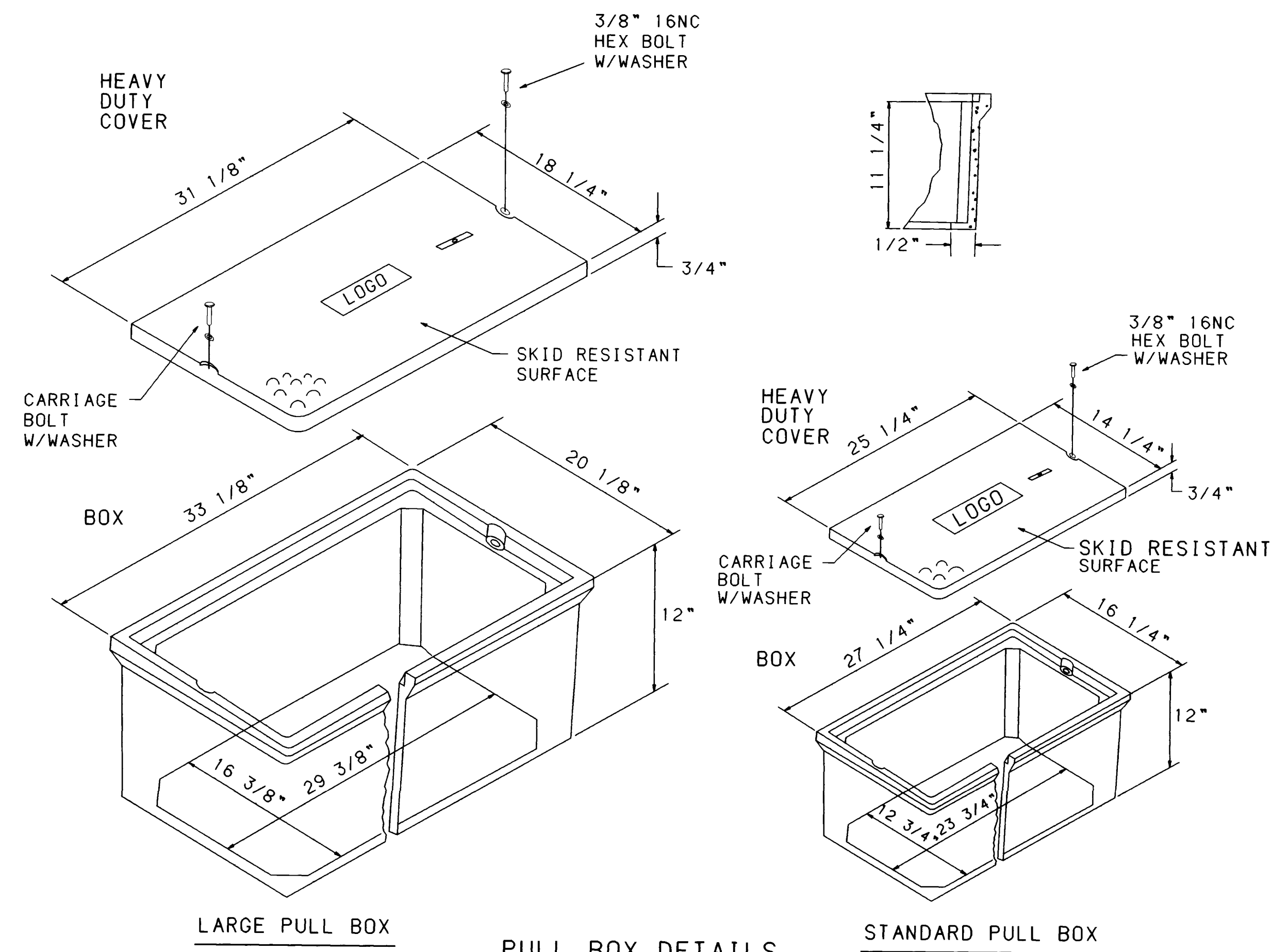


METAL PULL BOX

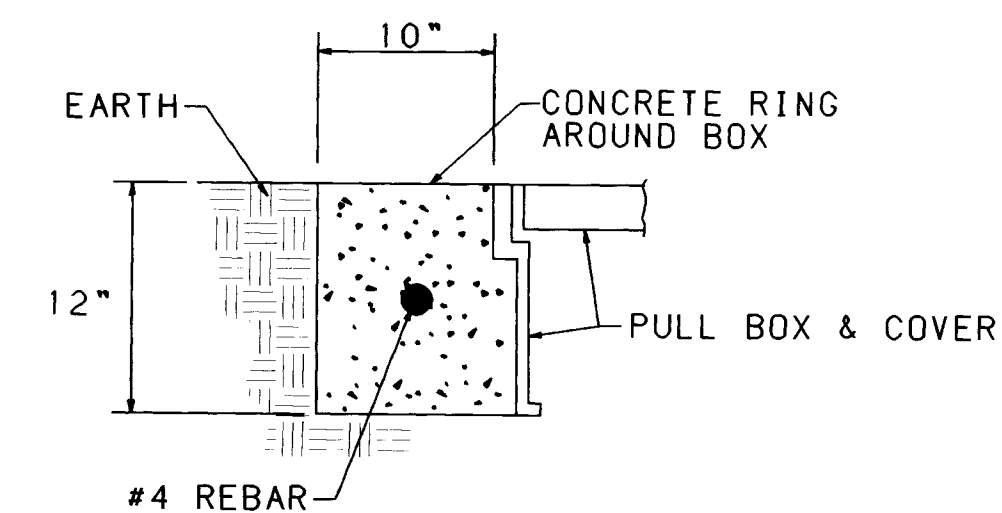


TYPICAL PULLBOX INSTALLATION

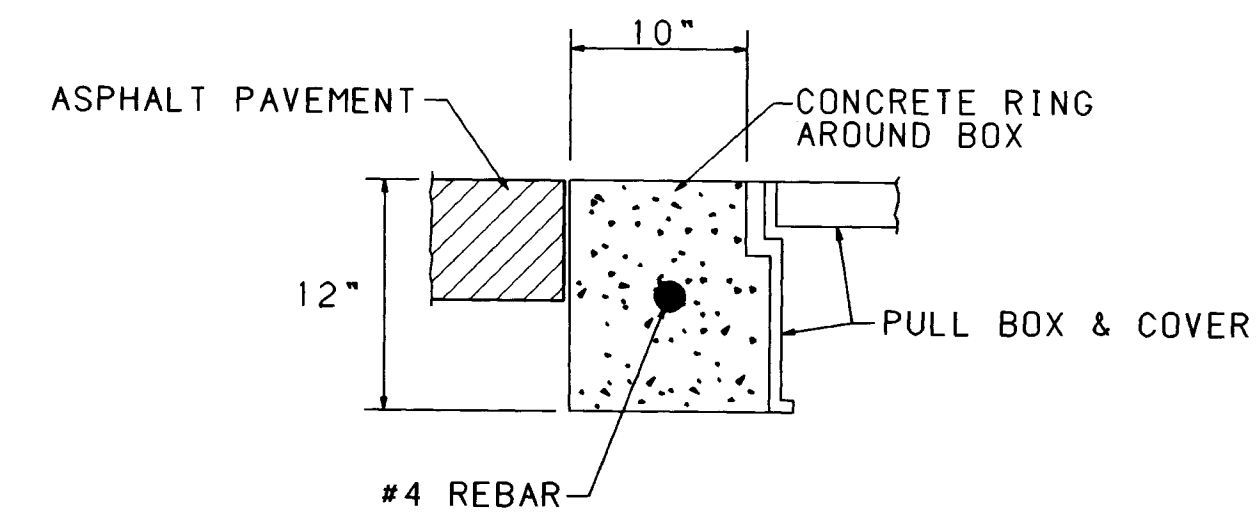
SEE DETAIL "A" BELOW



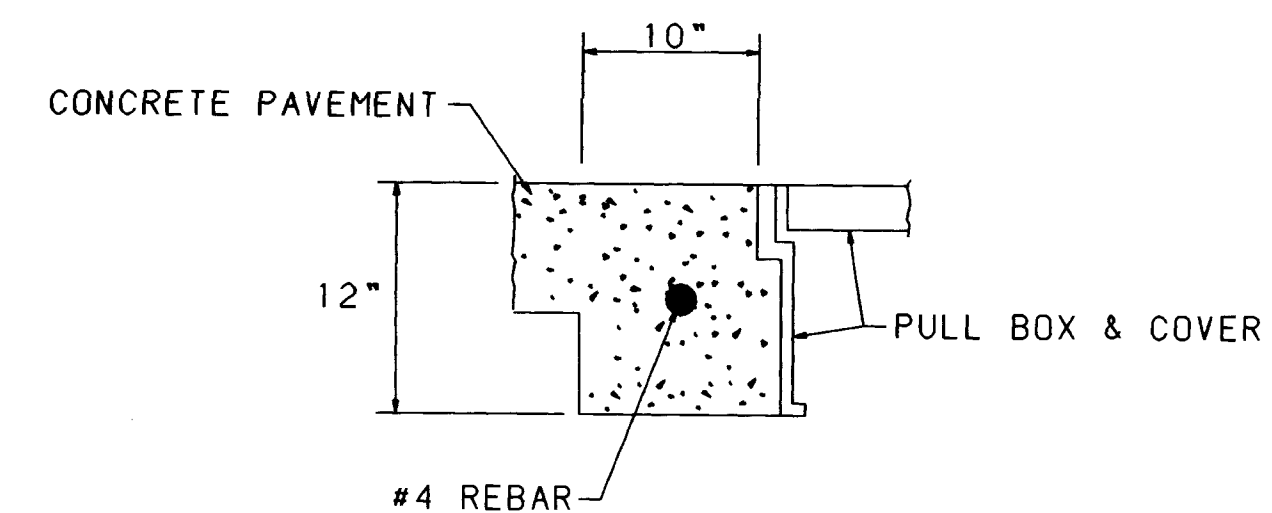
PULL BOX DETAILS



IN COMPACTED EARTH



IN ASPHALT PAVEMENTS



IN CONCRETE PAVEMENTS

CONCRETE COLLAR DETAIL
FOR PULL BOXES

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES
WILL BE CONSIDERED INCIDENTAL TO THE
TO THE PULL BOX BID ITEMS.

DETAIL "A"

- 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 A HEAVY WEAVE FIBERGLASS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 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 15,000 LBS. OVER A 10" SQUARE (150 PSI). NO CONCRETE OR STEEL COVERS WILL BE ACCEPTABLE.
 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 (SMALL) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 12-7/8" X 12-7/8" X 3/4".

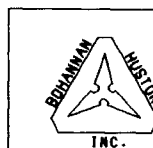
					ENGINEER'S SEAL	SURVEY INFORMATION	BENCH MARKS	AS-BUILT INFORMATION
						FIELD NOTES		
						NO.	BY	DATE
								WORK STAYED BY DATE
								ACCEPTANCE BY DATE
								FIELD LOCATION BY DATE
								DRAWINGS CORRECTED BY DATE
								MICRO-FILM INFORMATION
								RECORDED BY DATE
								NO.


E. W. W. Inc.
 Z-11-93

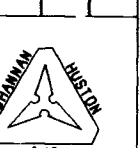
DESIGNED BY BHI/COA	DATE 1-93
DRAWN BY BHI/COA	DATE 1-93
CHECKED BY BHI/COA	DATE 1-93

DESIGN
 REVISIONS

2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	45	55	9	14	59	3							



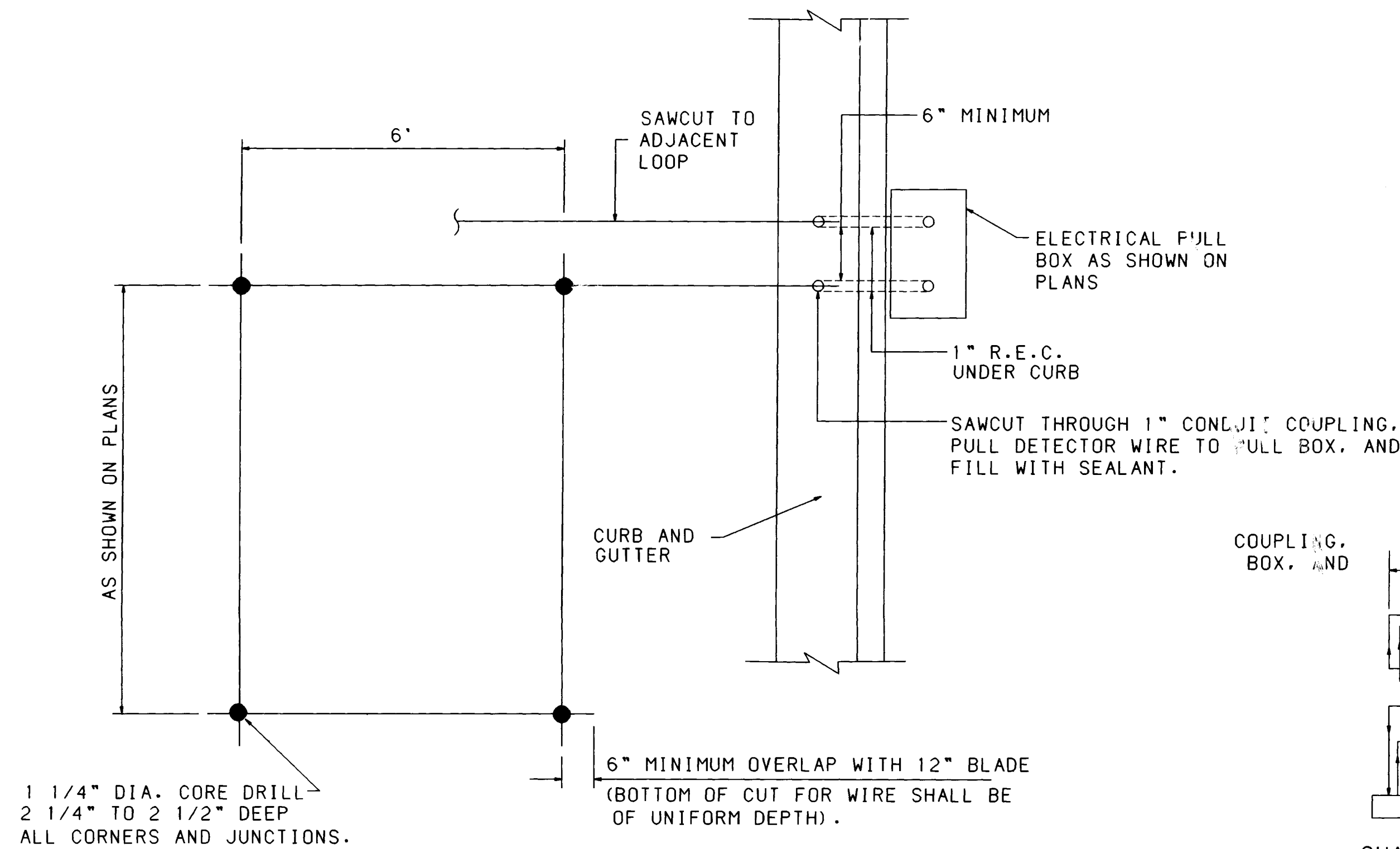
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP



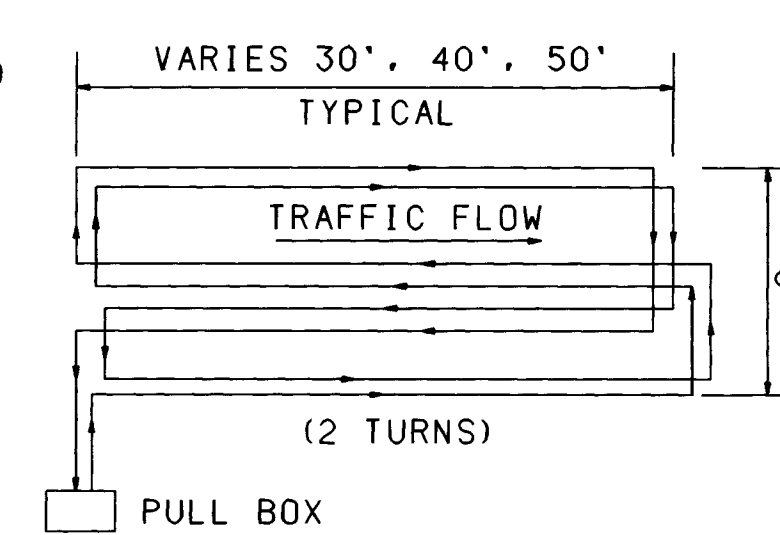
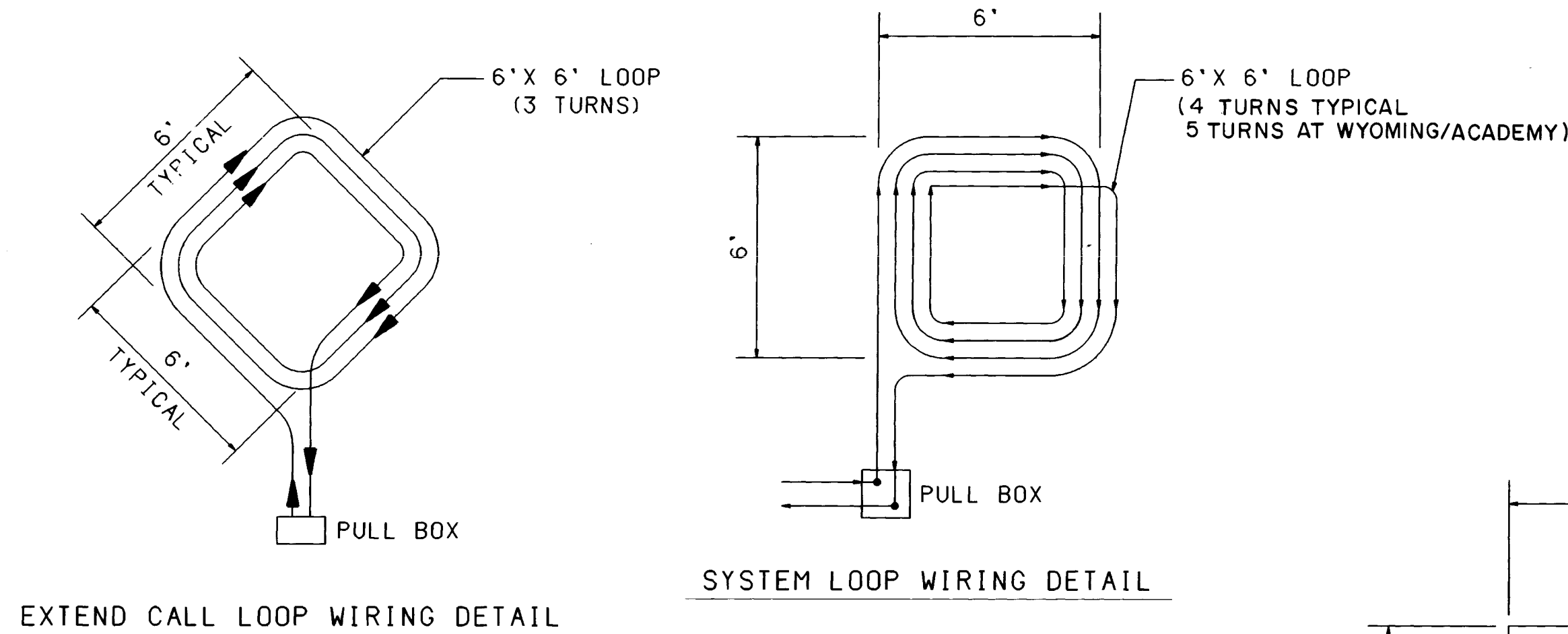
12.	ENGINEERING GROUP	
TITLE: TRAFFIC SIGNAL & LIGHTING PULL BOX DETAILS		

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. E. Gohary</i>	<i>2-17-93</i>	WATER	<i>W. A. G. SR.</i>	<i>2-17-93</i>
TRANSPORTATION	<i>D. P. RHO</i>	<i>2-17-93</i>	WASTE WATER		<i>2-17-93</i>
HYDROLOGY	<i>N/A H. A.</i>	<i>2-17-93</i>	TRAF. OPER.	<i>G. H. H.</i>	<i>2-11-93</i>

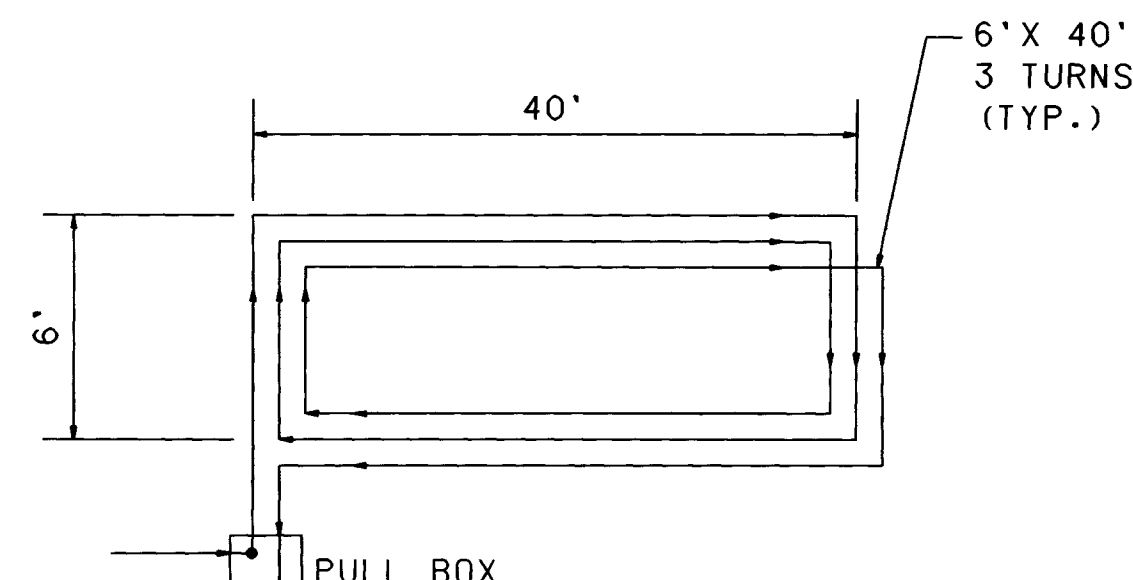
DRAWING NO.	4555.91	MAP NO.	—	SHEET	45	OF	
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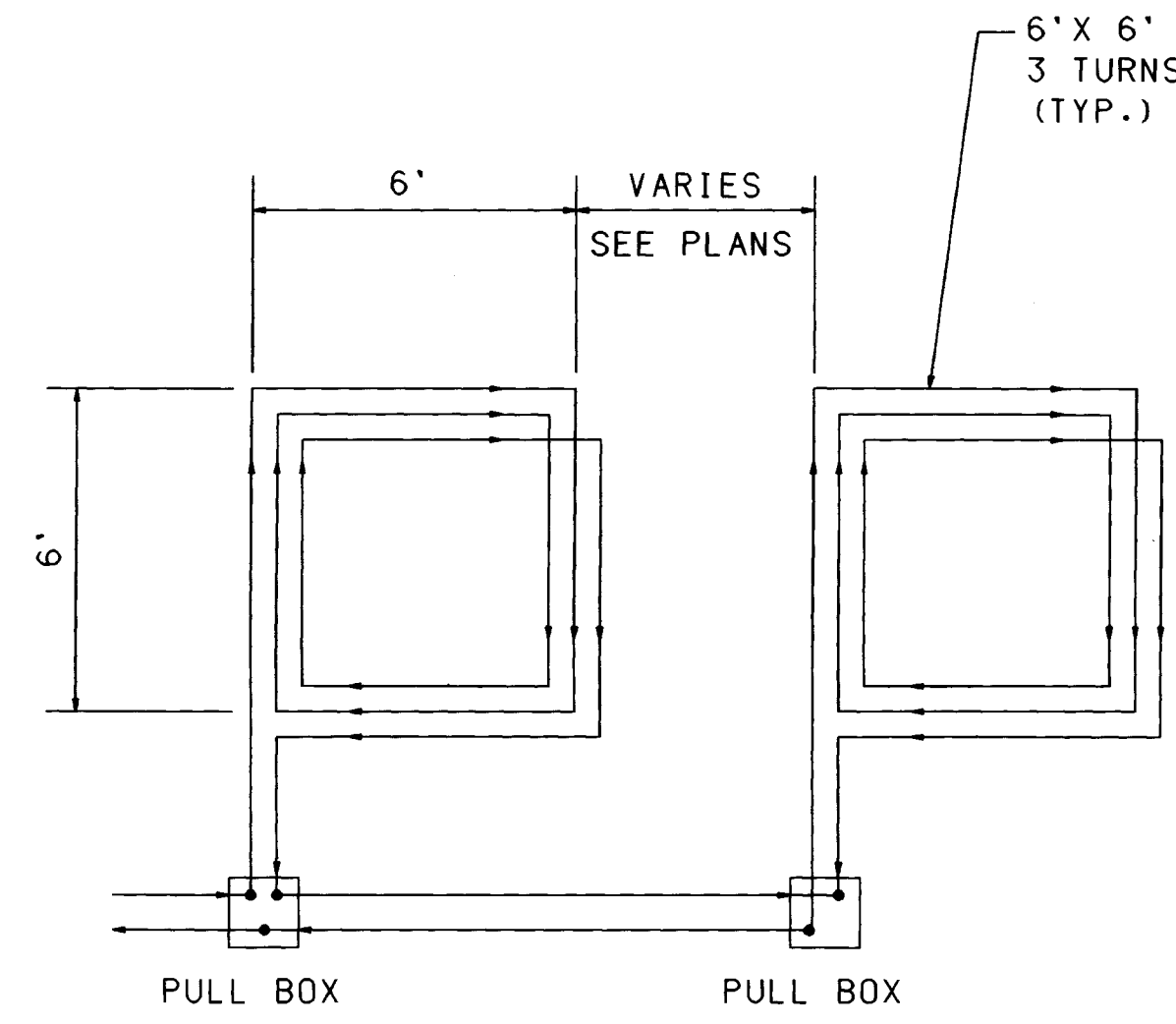
PLAN VIEW



QUADRUPOLE LOOP WIRING DETAIL



LARGE RECTANGULAR LOOP WIRING DETAIL



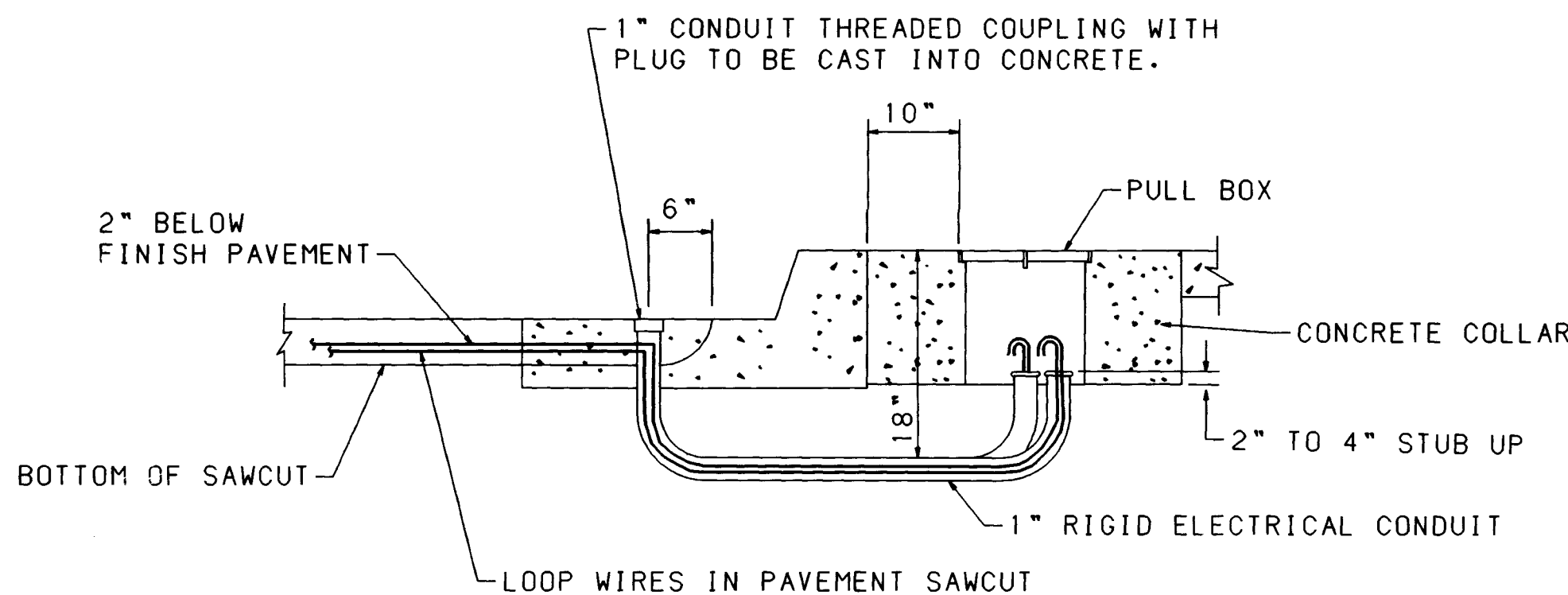
SERIES LOOP WIRING DETAIL

TYPICAL LOOP WIRE PLACEMENT DETAILS

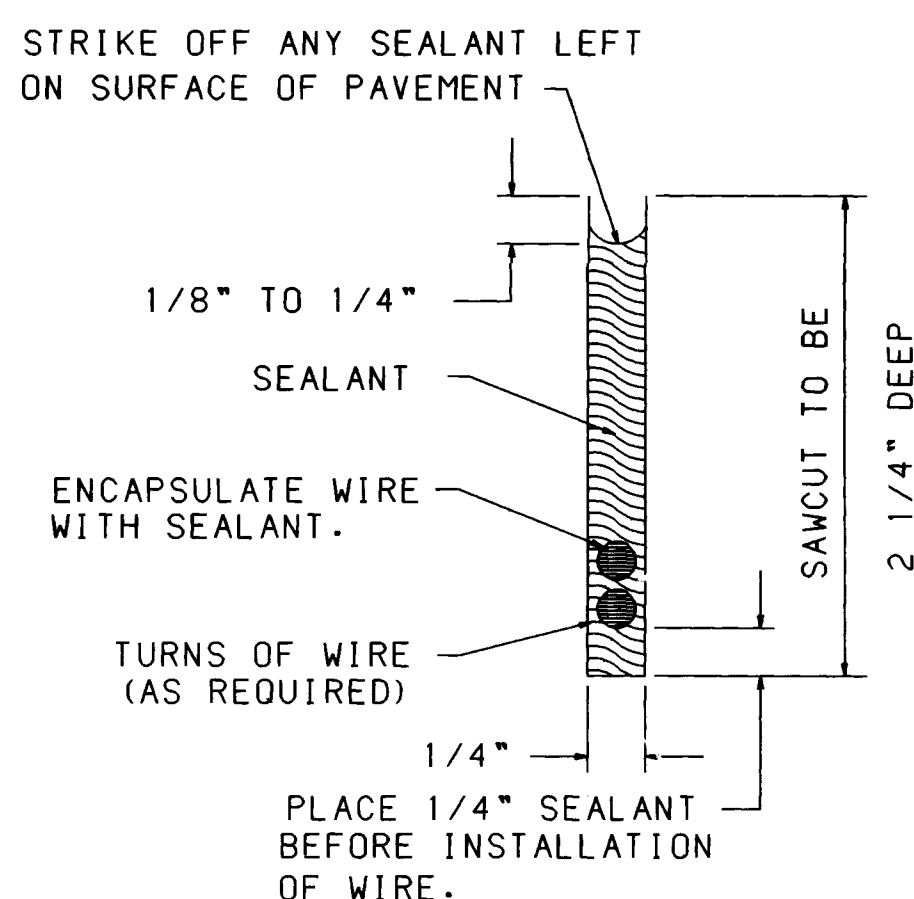
- NOTES: 1. WIRES MUST BE WOUND IN THE DIRECTION SHOWN.
 2. QUADRUPOLE LOOPS SHALL HAVE 2 TURNS.
 3. EXTEND CALL LOOPS SHALL HAVE 3 TURNS.
 4. SYSTEM DETECTOR LOOPS SHALL HAVE 4 TURNS.
 5. LARGE RECTANGLE LOOPS SHALL HAVE 3 TURNS

LOOP DETECTOR NOTES

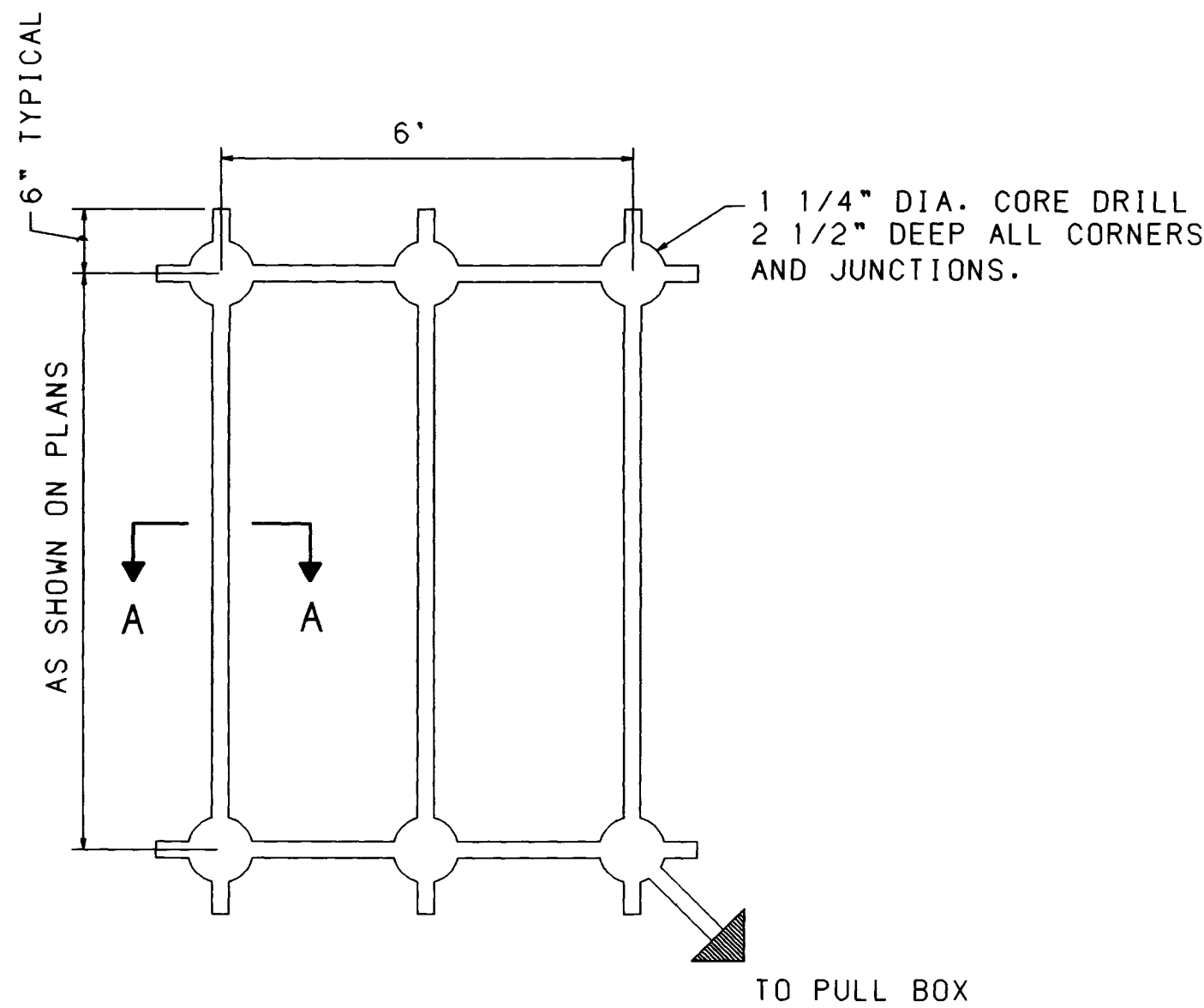
1. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH CROSSLINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF I.M.S.A. SPECIFICATIONS NO. 51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE 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 CRAFCO 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.



LOOP WIRE TERMINATION DETAILS

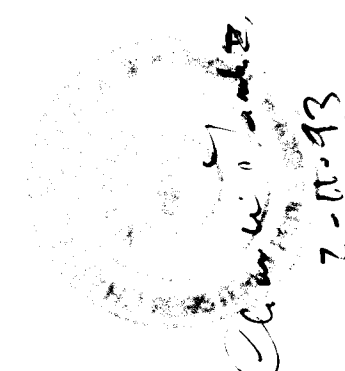


SECTION "A-A"

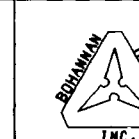


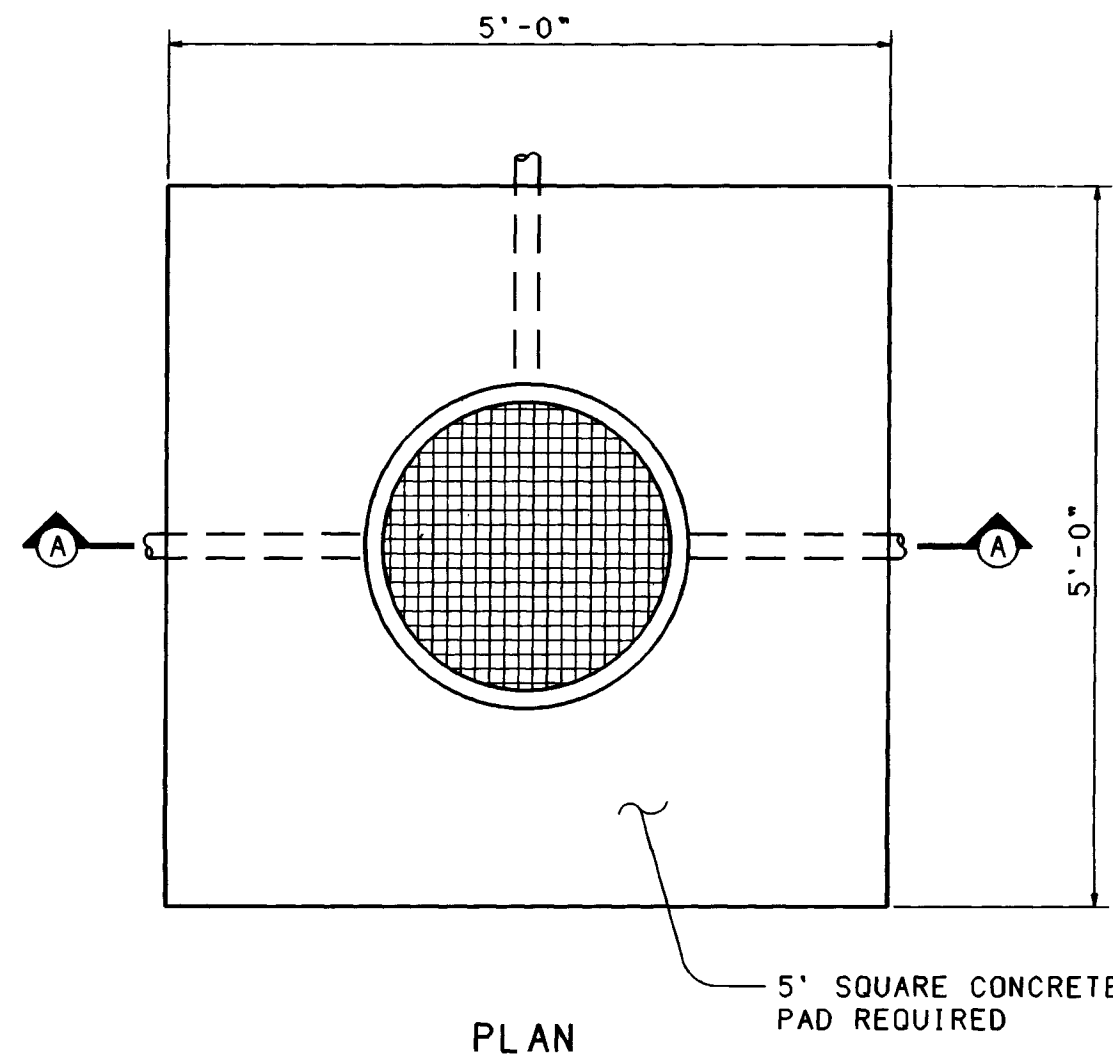
PLAN VIEW

TYPICAL ROADWAY LOOP SAWCUT DETAIL

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY		
STAMPED BY	DATE	NO.	DATE	NO.	DATE		
INSPECTOR'S FIELD VERIFICATION BY	DATE	NO.	DATE	NO.	DATE		
RECORDED BY	DATE	NO.	DATE	NO.	DATE		
MICRO-FILM INFORMATION		REVISIONS		DESIGN		DATE 1-93	
						DATE 1-93	
						DATE 1-93	

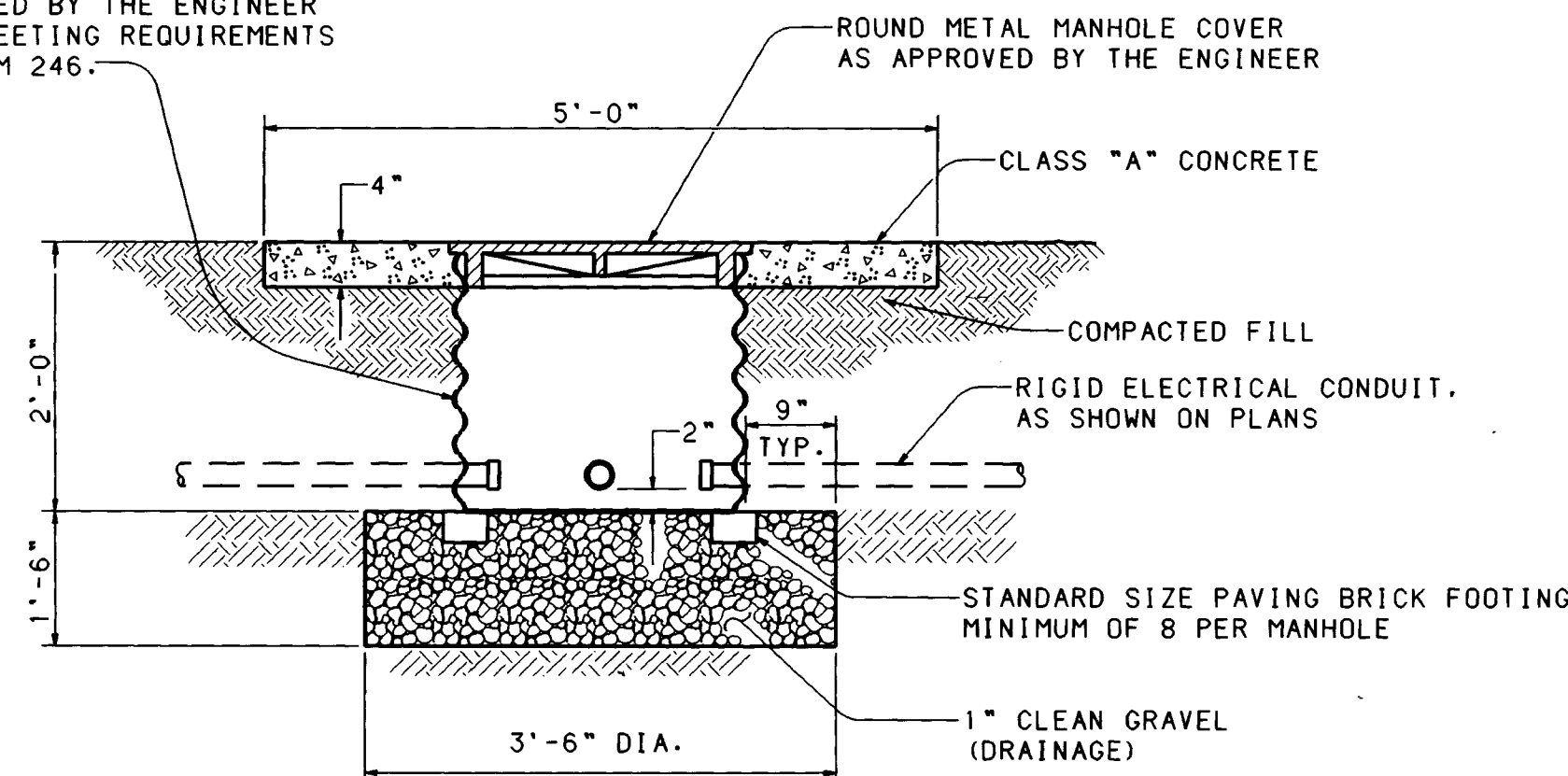
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 26 4555.91 9/14/93

 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP											
TITLE: TRAFFIC SIGNAL LOOP DETECTOR DETAILS											
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE						
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93						
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93						
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAF. OPER.	<i>[Signature]</i>	2-17-93						
DRAWING NO.		4555.91		MAP NO.		SHEET		46		OF	



PLAN

24" DIAMETER-14 GAUGE CORRUGATED METAL PIPE DIPPED IN COAL TAR ENAMEL OR COATED WITH POLYMERIC COATING APPROVED BY THE ENGINEER 3 MILS THICK MEETING REQUIREMENTS SET BY AASHTO M 246.



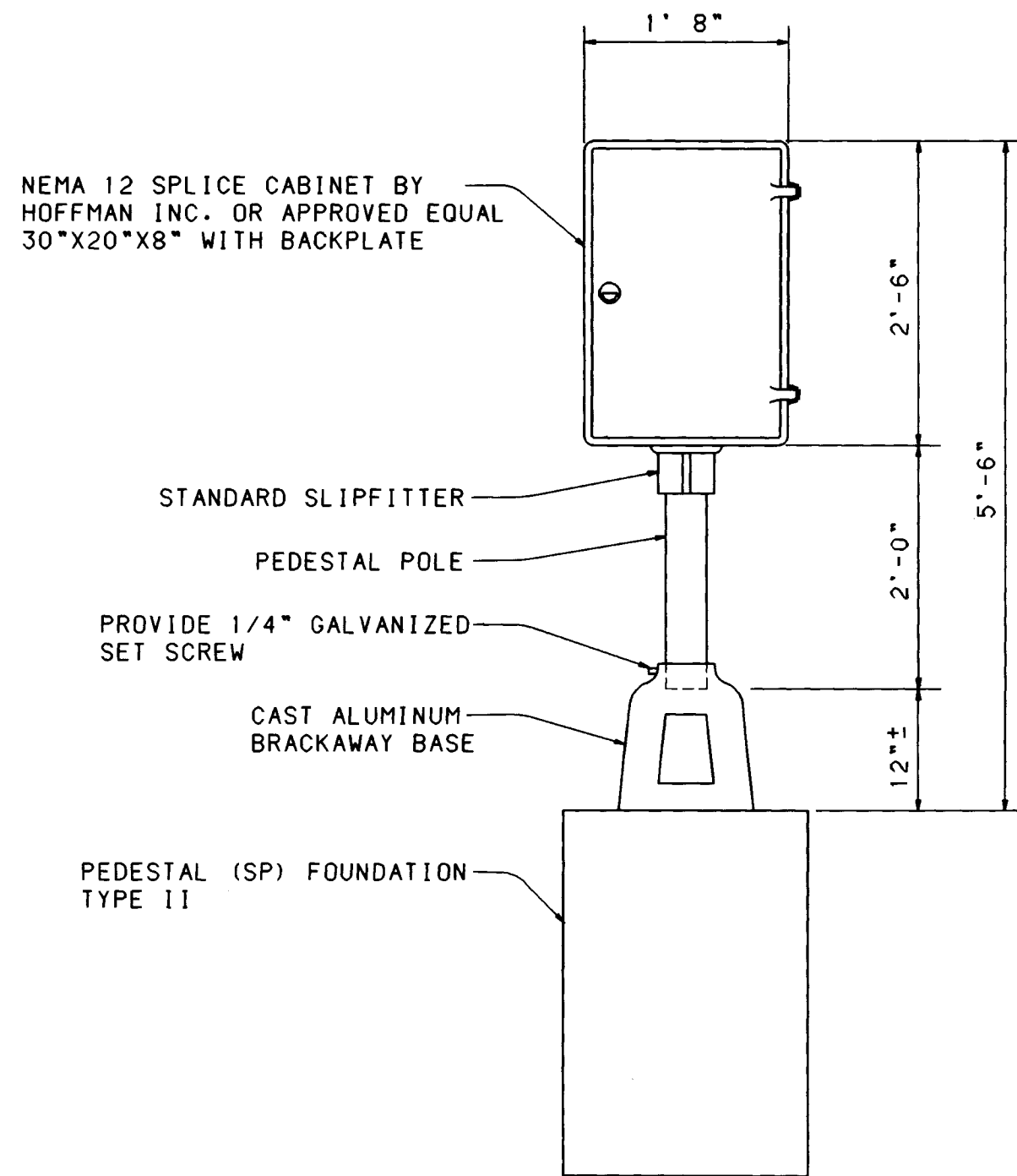
SECTION A-A

TRAFFIC SIGNAL MANHOLE

NO SCALE

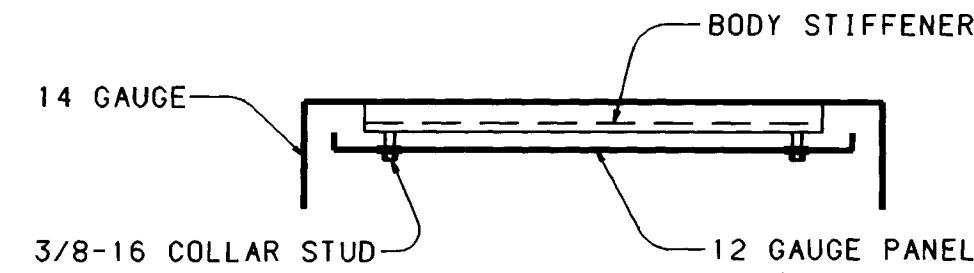
NOTES

1. TRAFFIC SIGNAL MANHOLE TO BE CONSTRUCTED IN AREAS NOT NORMALLY ACCESSIBLE TO VEHICULAR TRAFFIC.
2. TRAFFIC SIGNAL MANHOLE, TYPE I INCLUDES CONCRETE COLLAR. TRAFFIC SIGNAL MANHOLE, TYPE II DOES NOT REQUIRE CONCRETE COLLAR.



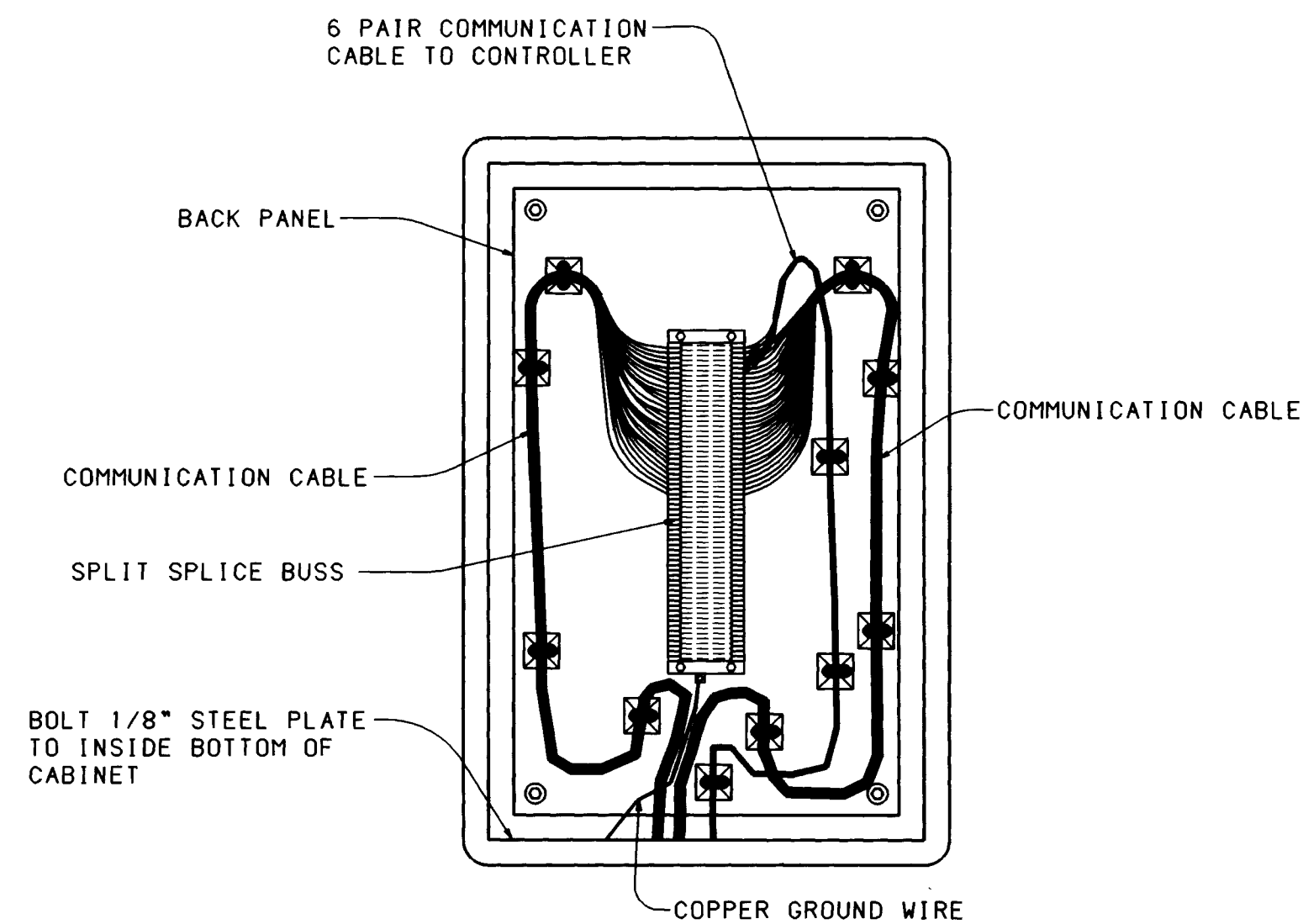
TRAFFIC SIGNAL
SPLICE CABINET DETAIL

NO SCALE



SPLICE CABINET PANEL DETAIL

NO SCALE

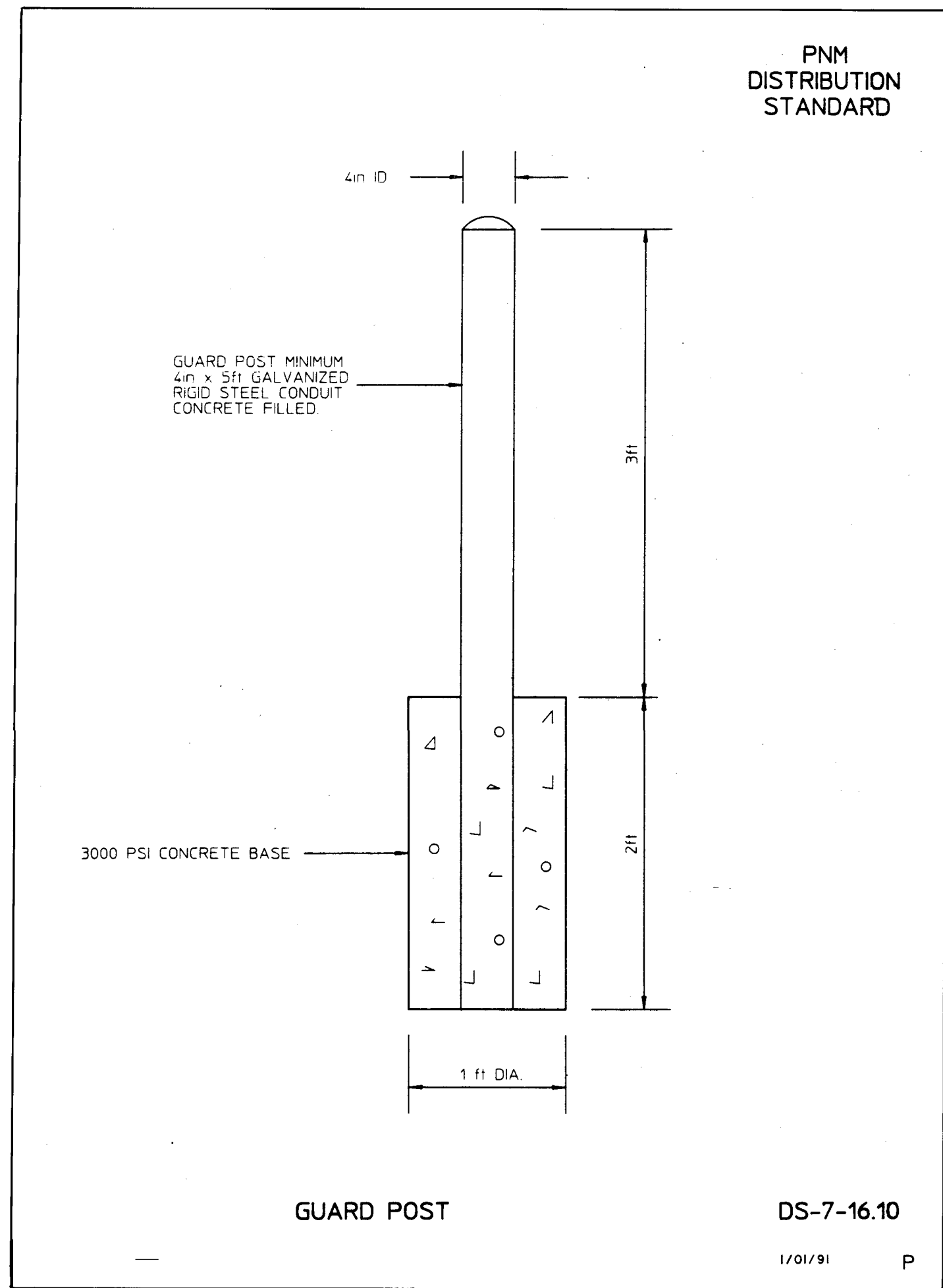


TRAFFIC SIGNAL
SPLICE CABINET WIRING DETAIL

NO SCALE

26 4555.91 4793

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL SPLICE CABINET & MANHOLE DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-17-93	WATER	<i>[Signature]</i>	2-17-93
TRANSPORTATION	<i>[Signature]</i>	2-17-93	WASTE WATER	<i>[Signature]</i>	2-17-93
HYDROLOGY	<i>[Signature]</i>	2-17-93	TRAF - OPER	<i>[Signature]</i>	2-11-93
DRAWING NO. 4555.91		MAP NO.		SHEET 47 OF	



**PNM
DISTRIBUTION
STANDARD**

SERVICE TRANSFORMER TYPE	VOLTAGE(S)	MAXIMUM AVAILABLE FAULT CURRENT AMPERES SYMMETRICAL
POLEMOUNTED	ALL EXCEPT 120/208	10,000 AT CUSTOMER SERVICE ENTRANCE
POLEMOUNTED	120/208	22,000 AT CUSTOMER SERVICE ENTRANCE
PADMOUNTED	120/240 (RESIDENTIAL ONLY) NOTE 1	10,000 AT CUSTOMER SERVICE ENTRANCE
PADMOUNTED	120/240 (COMMERCIAL)	22,000 AT PNM TRANSFORMER
PADMOUNTED	120/208, 277/480	60,000 AT PNM TRANSFORMER
NETWORK	277/480	100,000 AT CUSTOMER SERVICE ENTRANCE

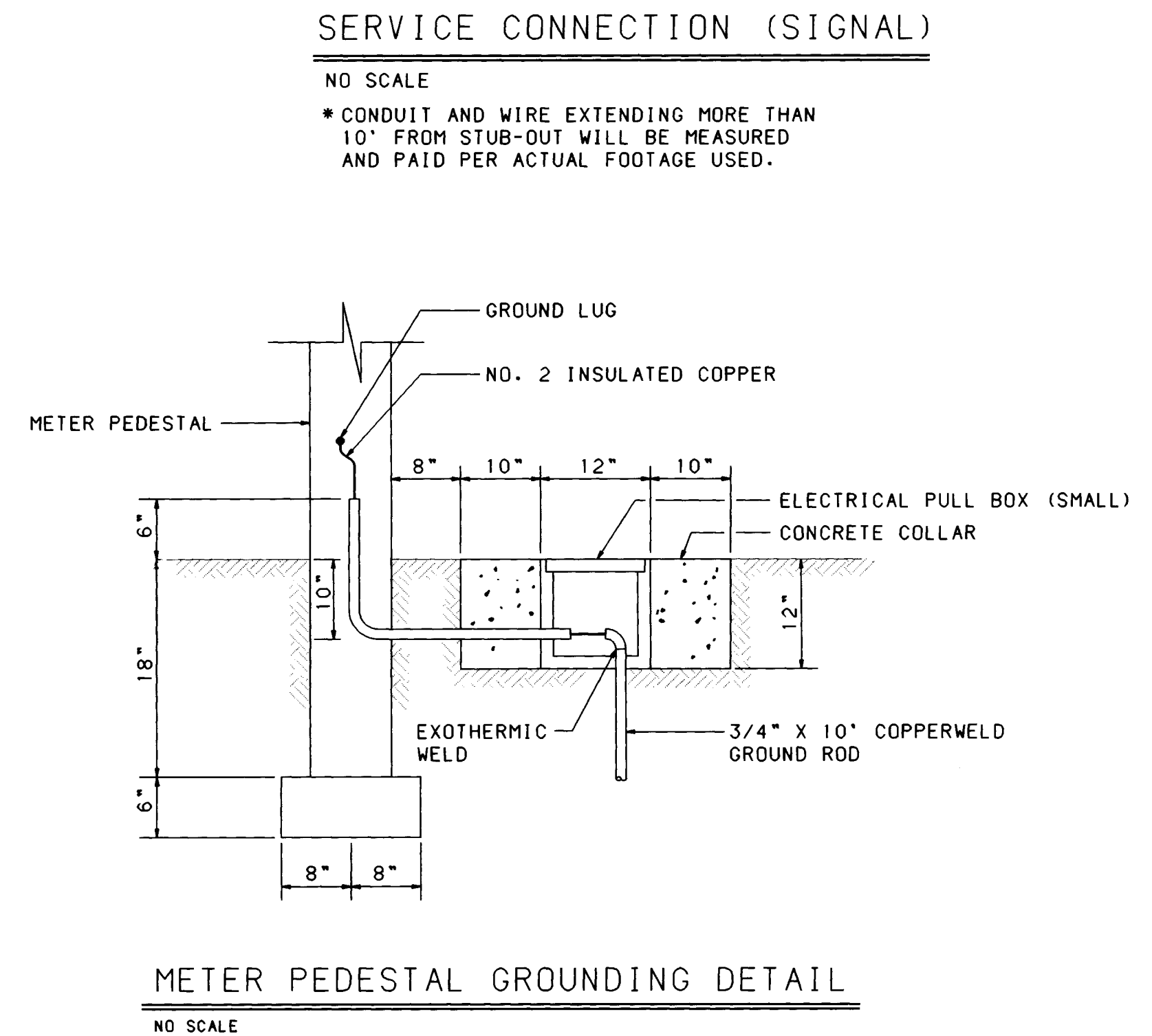
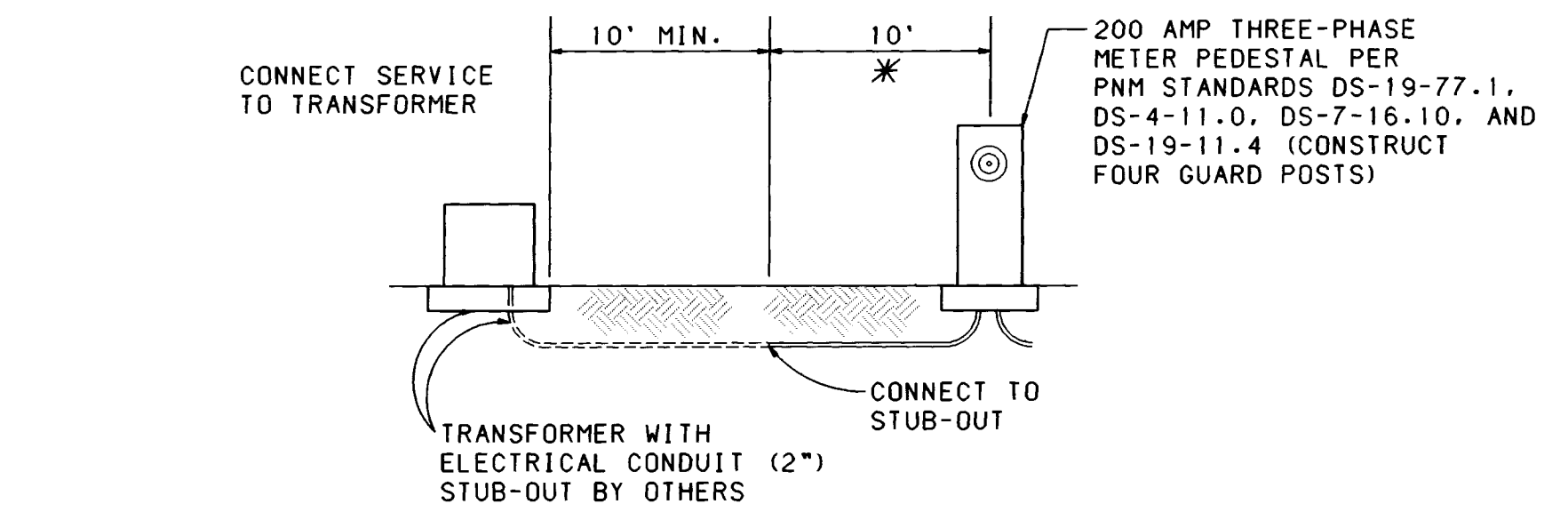
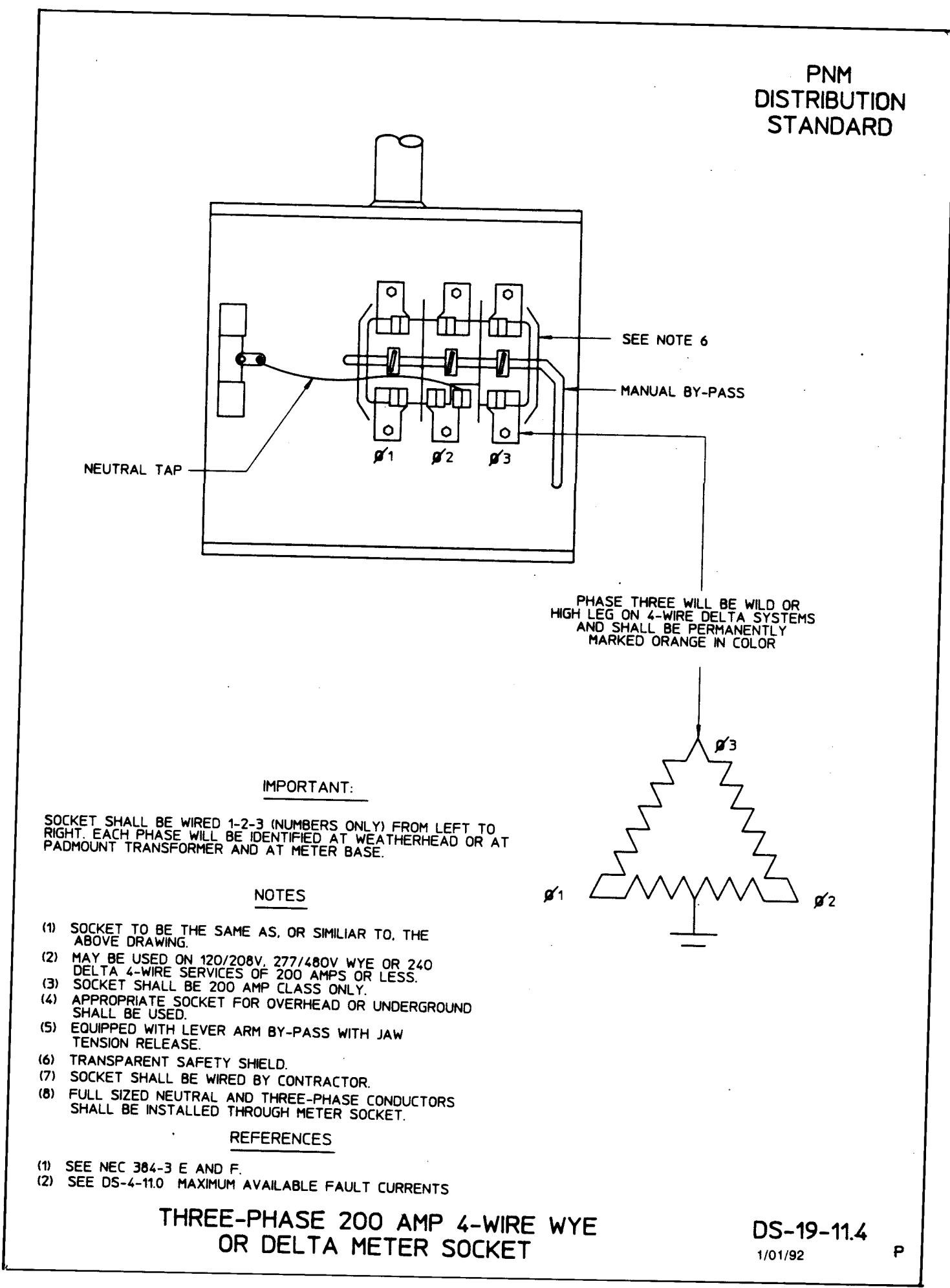
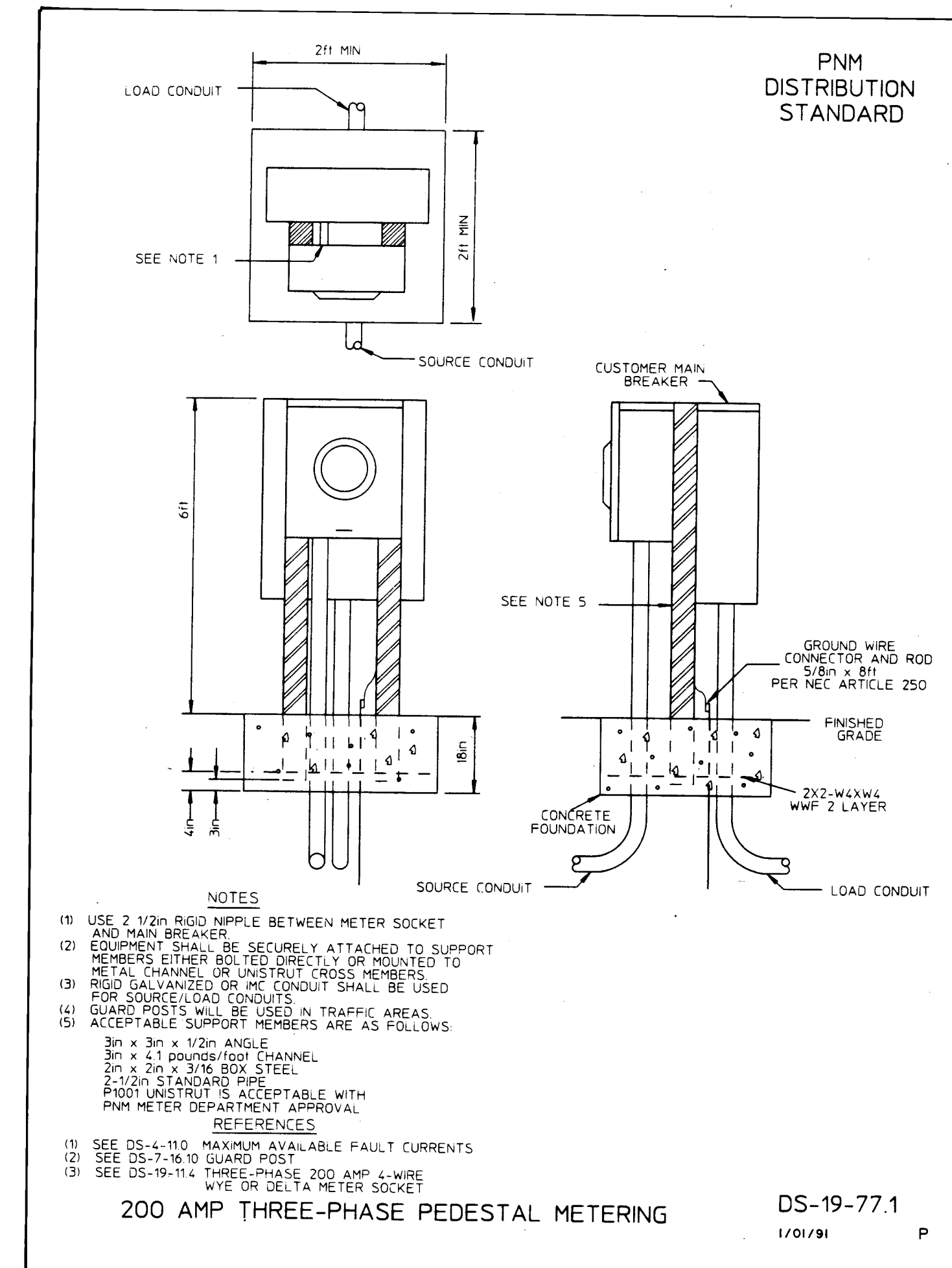
NOTES

(1) LARGE 120/240V RESIDENTIAL LOADS THAT REQUIRE 100 KVA OR 167 KVA PADMOUNTED TRANSFORMERS WILL HAVE MAXIMUM AVAILABLE FAULT CURRENT OF 22,000 AMPERES

(2) MAXIMUM AVAILABLE FAULT CURRENT INFORMATION IS PROVIDED FOR RATING CUSTOMER'S SERVICE ENTRANCE EQUIPMENT TO COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC). ACTUAL AVAILABLE FAULT CURRENT MAY BE LOWER.

MAXIMUM AVAILABLE FAULT CURRENTS

DS-4-11.0
1/01/91 P

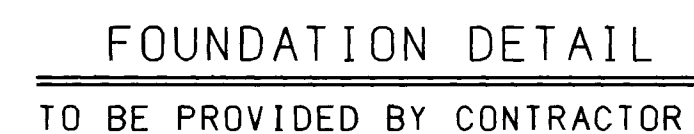


SIGNAL SERVICE NOTES

- ALL SIGNAL SERVICE DETAILS, MATERIALS, & INSTALLATION SHALL CONFORM TO PNM ELECTRIC SERVICE GUIDE, LATEST EDITION.
- CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.
- PROVIDE ONE 50A, SINGLE POLE, 120V CIRCUIT FOR CONTROLLER SIGNALS AND ONE 20A, SINGLE POLE CIRCUIT FOR DUPLEX CONVENIENCE OUTLET IN CONTROLLER.
- 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.
- TRANSFORMERS ARE TO BE CONSTRUCTED BY OTHERS INCLUDING STUB-OUTS FOR SIGNAL SERVICE. SERVICE CONNECTION TO TRANSFORMER WILL BE REQUIRED.

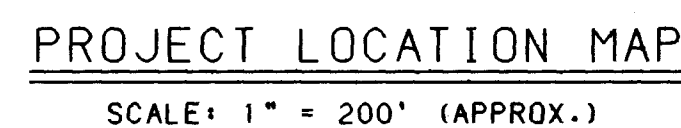
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4555.91 14893

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: TRAFFIC SIGNAL ELECTRICAL SERVICE DETAILS	
APPROVALS	ENGINEER
DRC CHAIRMAN	2-17-93
TRANSPORTATION	2-17-93
HYDROLOGY	2-17-93
DATE 1-93	
DATE 1-93	
DATE 1-93	
DRAWING NO. 4555.91	
MAP NO. SHEET 48 OF	

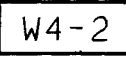
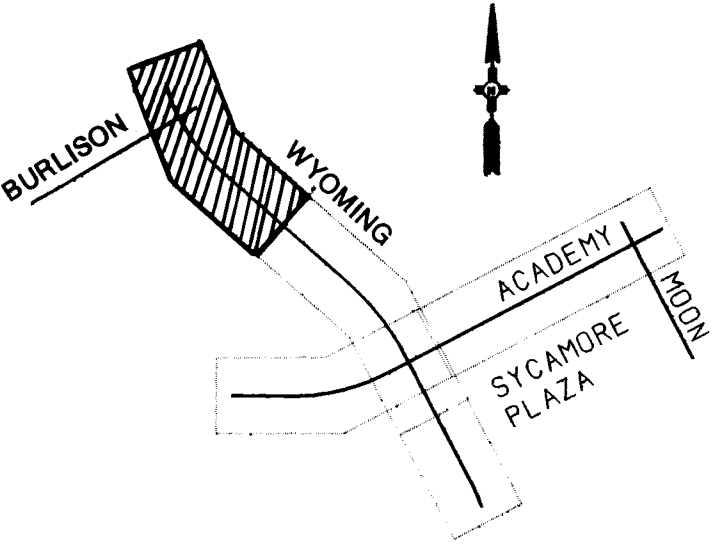


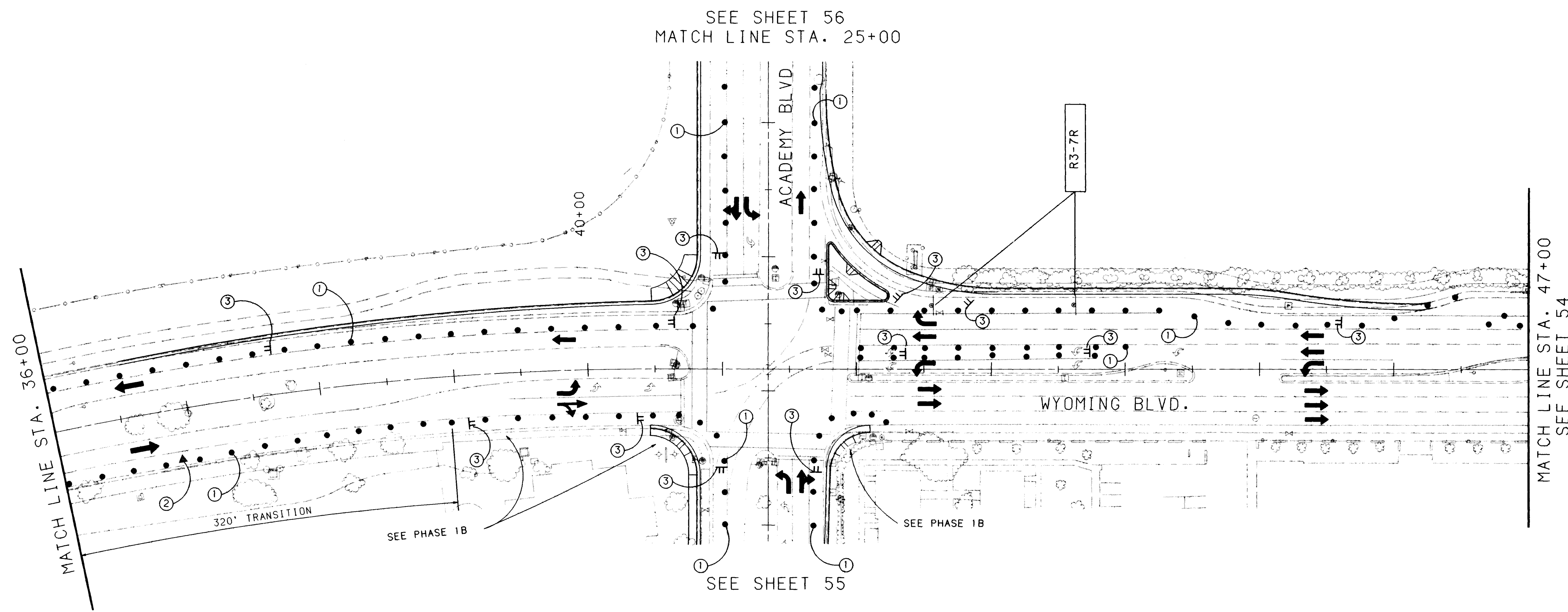
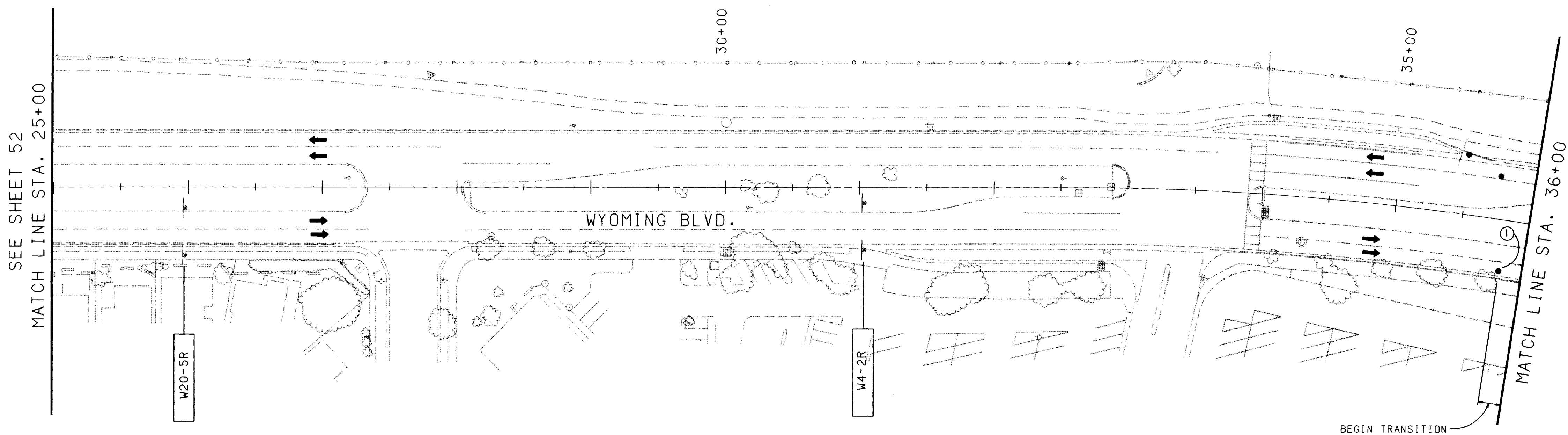
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2	6		4	5	5	5	.	9	1	4	9	9	3	

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: STREET LIGHTING POLE & FOUNDATION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>J.R. Gendley</i>	2-17-93	WATER	<i>M. G. SR</i>	2-17-93
TRANSPORTATION	<i>N.A. RPT</i>	2-17-93	WASTE WATER	<i>M. G. SR</i>	2-17-93
HYDROLOGY	<i>N.A. RPT</i>	2-17-93	TRAFF. OPER.	<i>M. G. SR</i>	2-17-93
DRAWING NO.		4555.91	MAP NO.		E-19
			SHEET		49 OF



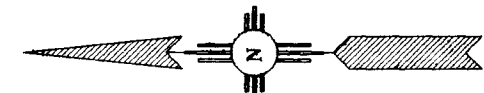
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		4	5	5		9	1	5	2	9	3		

LEGEND			AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		NO. DATE		REVISIONS		DESIGN		DRAWN BY		CHECKED BY		
KEY	SYMBOL	DESCRIPTION	CONTRACTOR	WORKED BY	INSPECTOR'S	ACCEPTANCE BY	DATE	NO.	BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	
①		SIGN MUTCD SIGN CODE																			
②		SEQUENTIAL ARROW																			
③		TYPE III BARRICAD 8' W/R11-2A LANE CLOSED & W1-6																			
④		TYPE III BARRICAD 8' W/R11-2 ROAD CLOSED																			
		LANES OPEN TO TRAFFIC DURING THIS PHASE OF CONSTRUCTION																			
																					
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP																					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 1A																					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE																
DRC CHAIRMAN	<i>B. G. Gooding</i>	2-17-93	WATER	<i>W. G. G. G.</i>	2/17/93																
TRANSPORTATION	<i>N/A</i>	2-17-93	WASTE WATER	<i>N/A</i>	2-17-93																
HYDROLOGY	<i>N/A</i>	2-17-93	CONSTR. COORD.	<i>Reinhold & Royal</i>	2-26-93																
DRAWING NO.	4555.91		MAP NO.	E-19		SHEET		52		OF											



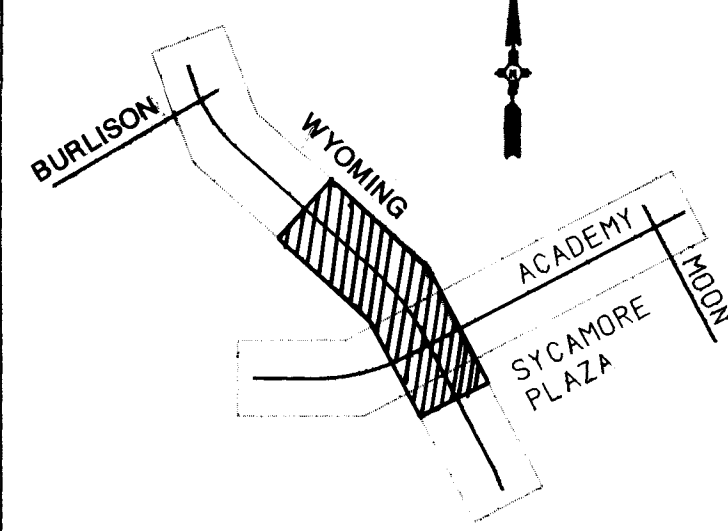
**SYCAMORE PLAZA - TRAFFIC CONTROL PLAN
WYOMING BOULEVARD - PHASE 1A**

SCALE: 1"=50'



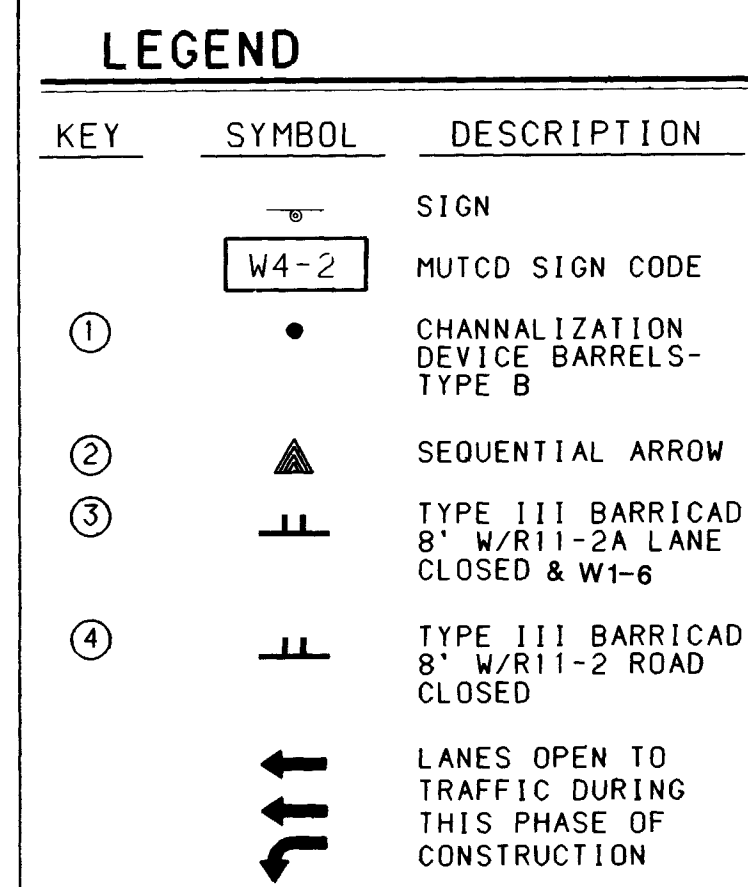
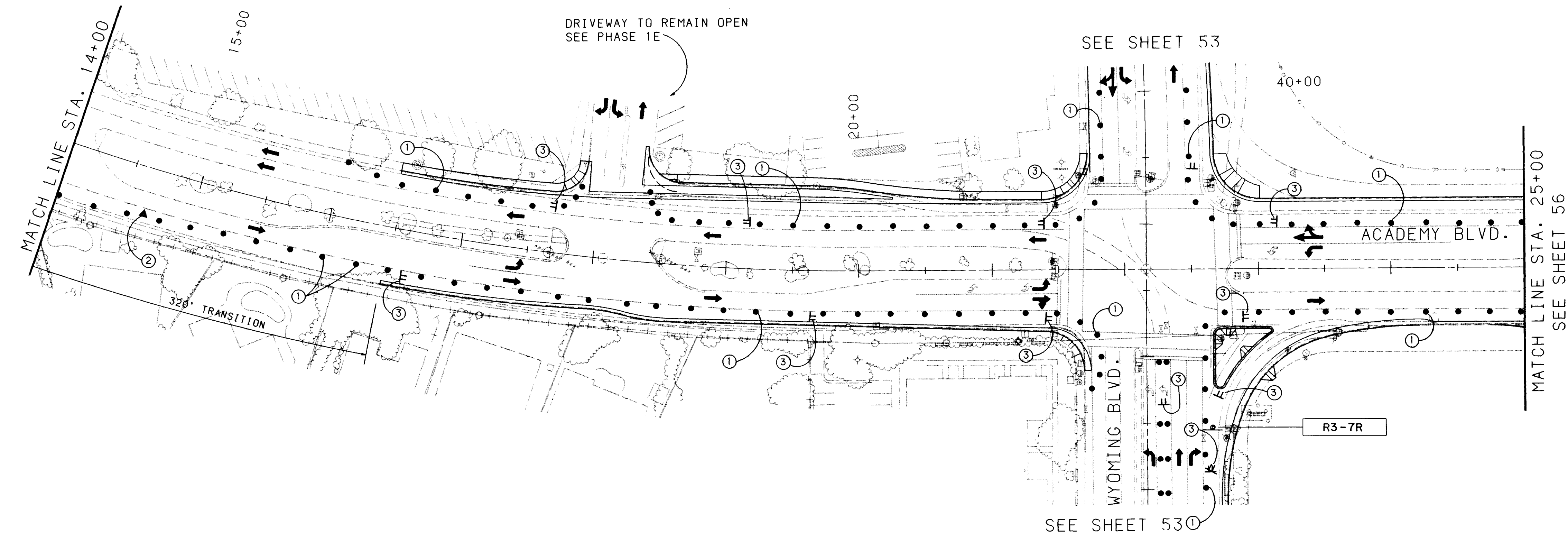
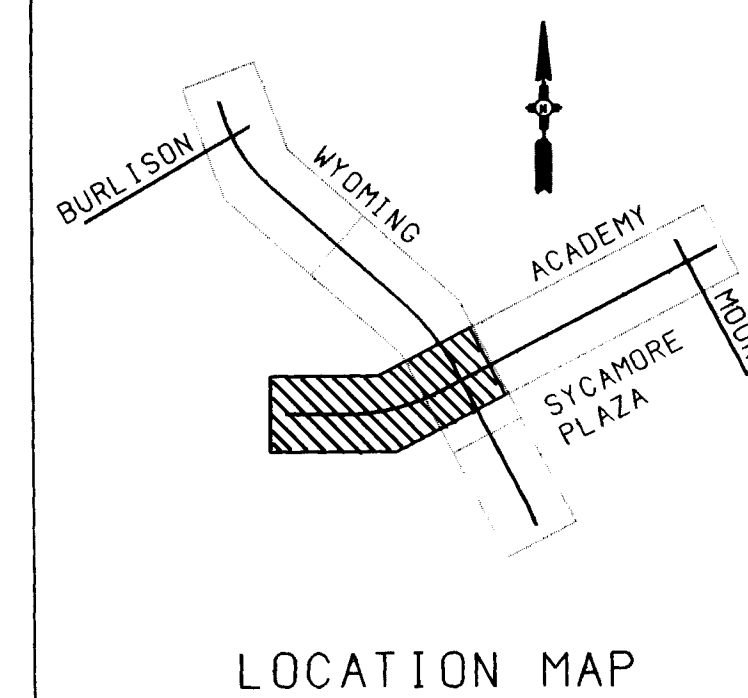
LEGEND		
KEY	SYMBOL	DESCRIPTION
		SIGN
		MUTCD SIGN CODE
①		CHANNELIZATION DEVICE BARRELS- TYPE B
②		SEQUENTIAL ARROW
③		TYPE III BARRICADE 8' W/R11-2A LANE CLOSED & W1-6
④		TYPE III BARRICADE 8' W/R11-2 ROAD CLOSED
		LANES OPEN TO TRAFFIC DURING THIS PHASE OF CONSTRUCTION

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE			
NO. DATE		REMARKS		BY			
		DESIGN					
DESIGNED BY CWT		DATE 1-93					
DRAWN BY CJT		DATE 1-93					
CHECKED BY CWT		DATE 1-93					



		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 1A					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. E. Acosta</i>	2-17-93	WATER	<i>M. Lopez</i>	2/11/93
TRANSPORTATION	<i>N. P. RHP</i>	2-17-93	WASTE WATER	<i>M. Lopez</i>	2/11/93
HYDROLOGY	<i>N/A</i>	2-17-93	CONSTR. COORD.	<i>R. M. Lopez</i>	12-6-93
DRAWING NO. 4555.91		MAP NO. E-19		SHEET 53 OF	

20 4555.91 915393

[illegible]

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
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TITLE: SYCAMORE PLAZA
OFFSITE PUBLIC IMPROVEMENTS
WYOMING/ACADEMY
TRAFFIC CONTROL PLAN - PHASE 1A

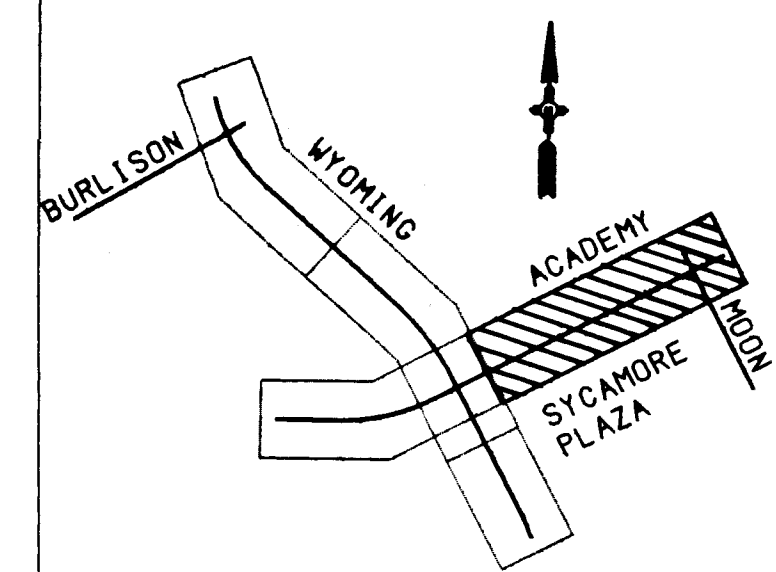
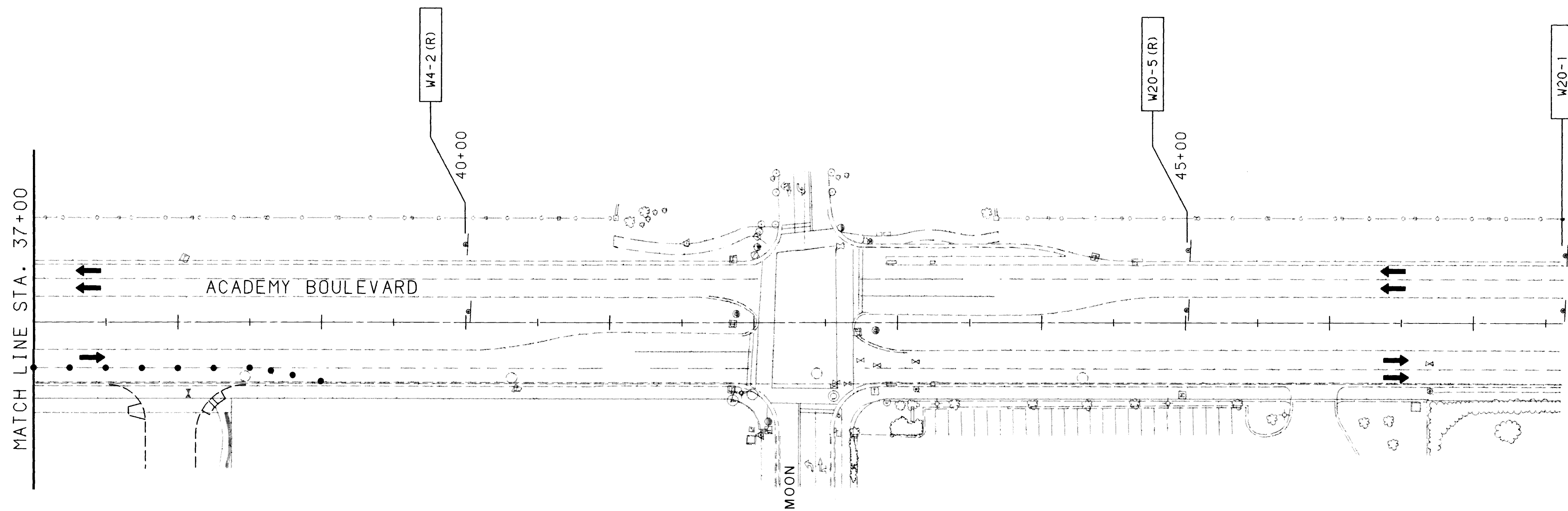
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Sgt. Goshaly</i>	2-17-93	WATER	<i>W/A Goshaly</i>	17 FEB 93
TRANSPORTATION	<i>N/A RHO</i>	2-17-93	WASTE WATER		17 FEB 93
HYDROLOGY	<i>N/A RHO</i>	2-17-93	CONSTR. COORD.	<i>RHO & RHO</i>	1-26-93

DRAWING NO.	4555.91	MAP NO.	E-19	SHEET	55	OF	
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SYCAMORE PLAZA - TRAFFIC CONTROL PLAN
WYOMING BOULEVARD - PHASE 1A

SCALE: 1"=50'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		4	5	5	9	1	5	5	9	3			



LOCATION MAP

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
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TITLE:	SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 1D
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. J. Gooding</i>	2-7-93	WATER	<i>W. G. S. C.</i>	17-Feb-93
TRANSPORTATION	<i>N. A. R. H. D.</i>	2-7-93	WASTE WATER		17-Feb-93
HYDROLOGY	<i>N/A R. H.</i>	2-7-93	TRAF. OPER.	<i>R. A. B. S. G. L.</i>	1-26-93

DRAWING NO.	4555.91	MAP NO. E-19	SHEET 56	OF
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LEGEND

KEY	SYMBOL	DESCRIPTION	DATE
		SIGN MUTCD SIGN CODE	DATE
①	•	CHANNELIZATION DEVICE BARRELS- TYPE B	DATE
②		SEQUENTIAL ARROW	DATE
③		TYPE III BARRICAD 8' W/R11-2A LANE CLOSED & W1-6	DATE

CONTRACTOR

WORKED BY

ACCEPTANCE BY

FIELD

DATE

AS BUILT INFORMATION

REVISION

DATE

RECORDED BY

DATE

NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

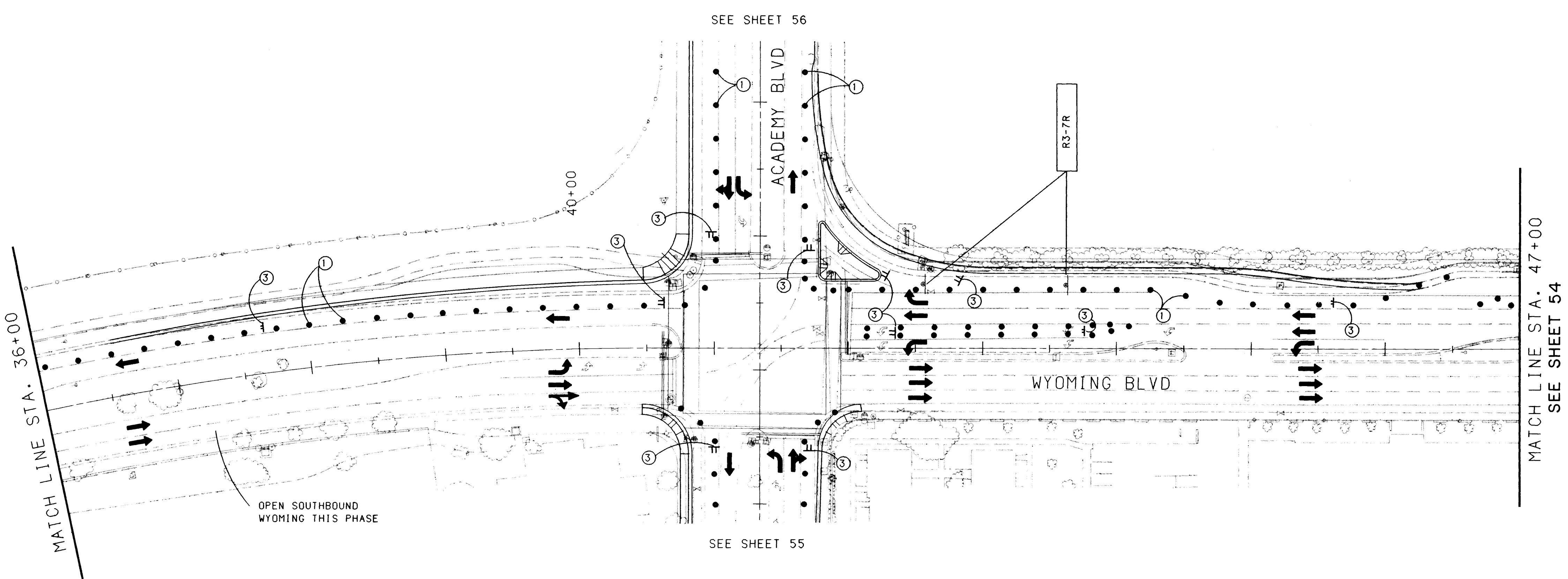
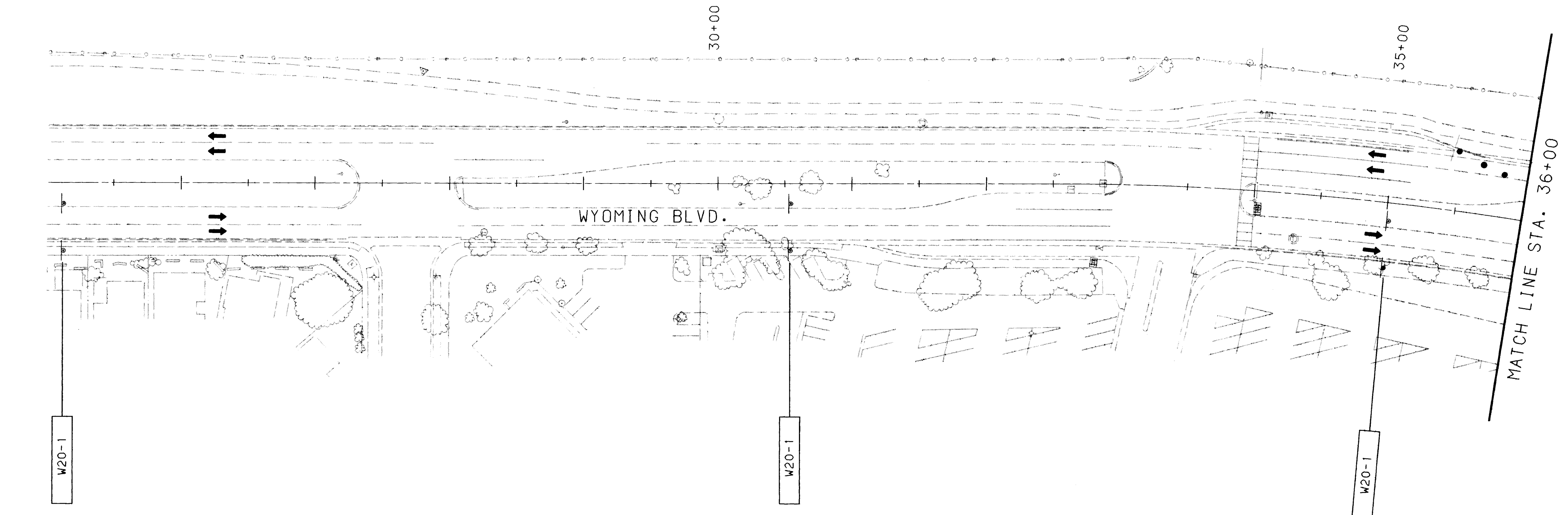
ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
<i>REVISONS</i>			
DESIGN			
DESIGNED BY CWT		DATE	1-93
DRAWN BY CJT		DATE	1-93
CHECKED BY CWT		DATE	1-93

SYCAMORE PLAZA - TRAFFIC CONTROL PLAN
ACADEMY BOULEVARD - PHASE 1A

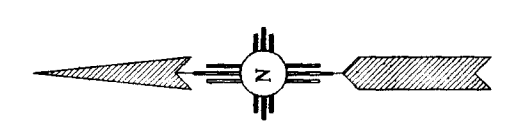
SCALE: 1"=50'

26 4555.915693



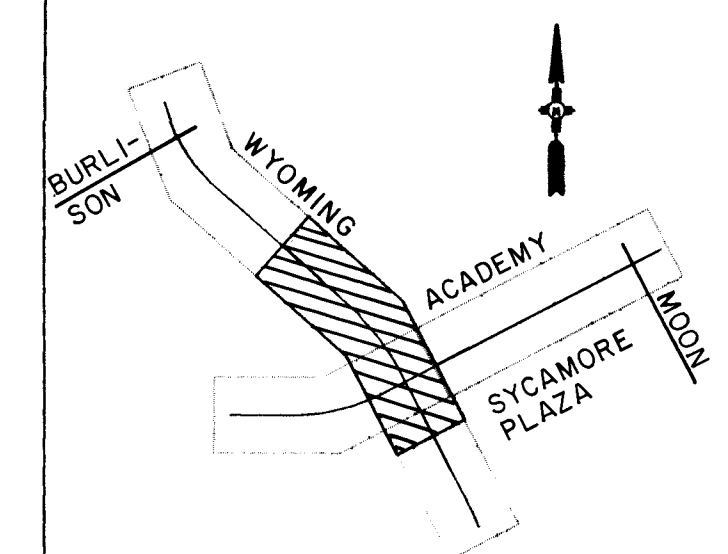
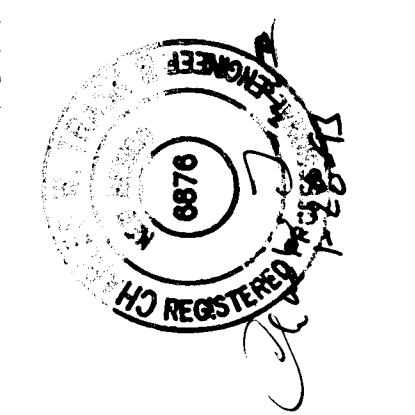
SYCAMORE PLAZA - TRAFFIC CONTROL PLAN
WYOMING BOULEVARD - PHASE 1B

SCALE: 1"=50'



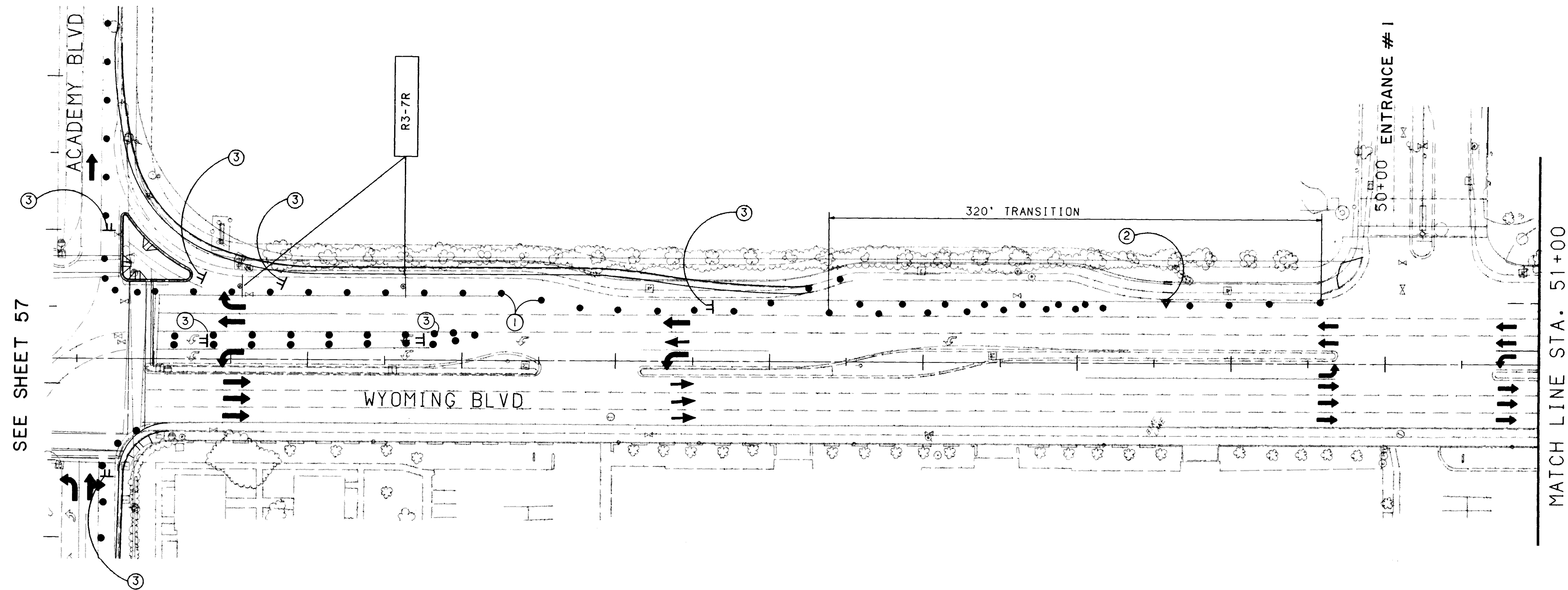
LEGEND		
KEY	SYMBOL	DESCRIPTION
		SIGN
		MUTCD SIGN CODE
①		CHANNALIZATION DEVICE BARRELS - TYPE B
②		SEQUENTIAL ARROW
③		TYPE III BARRICAD 8' W/R11-2A LANE CLOSED & W1-6
④		TYPE III BARRICAD 8' W/R11-2 ROAD CLOSED
		LANES OPEN TO TRAFFIC DURING THIS PHASE OF CONSTRUCTION

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



LOCATION MAP

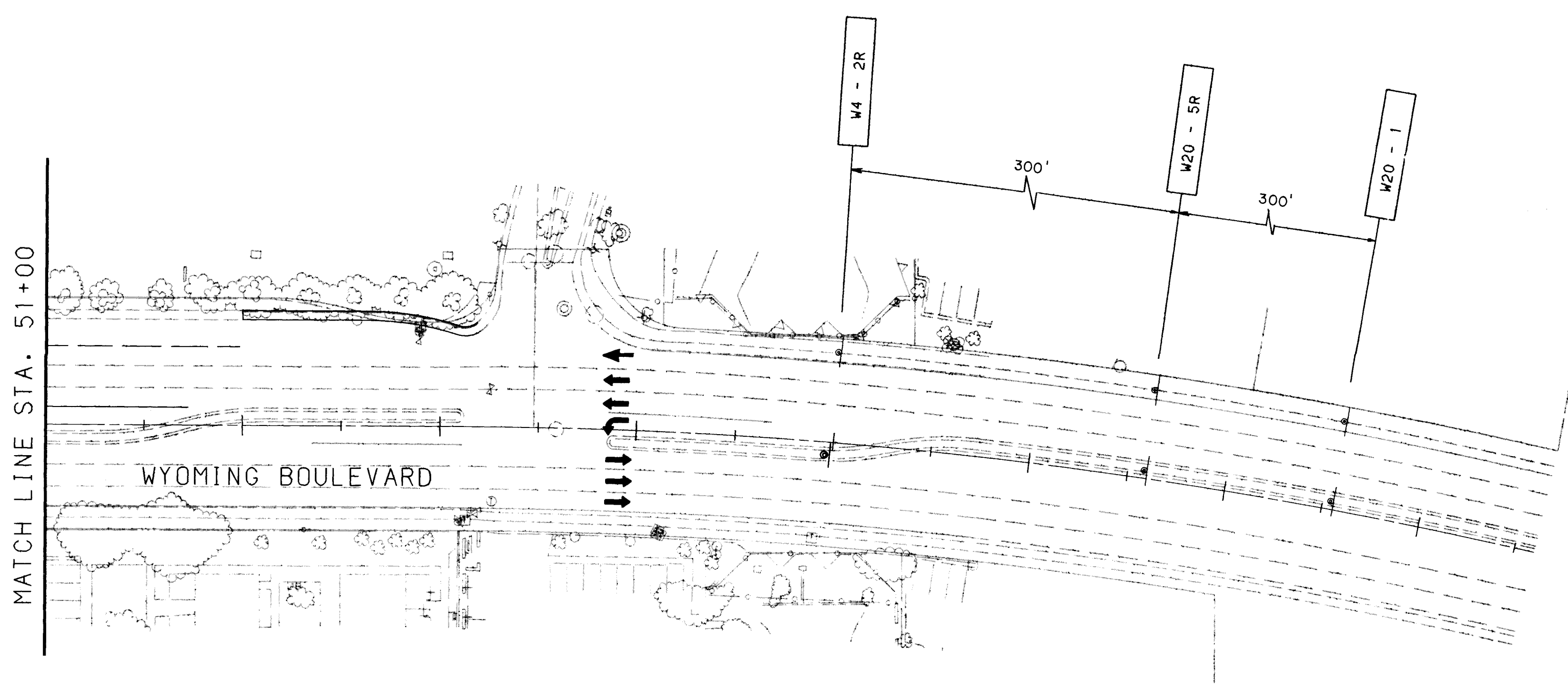
		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 1B						
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	
DRG CHAIRMAN	<i>B. B. B. B.</i>	2-17-93	WATER	<i>W. B. B.</i>	17 FEB 93	
TRANSPORTATION	<i>N. B. B.</i>	2-17-93	WASTE WATER		17 FEB 93	
HYDROLOGY	<i>N. B. B.</i>	2-17-93	CONSTR. COORD.	<i>R. B. B.</i>	1-26-93	
DRAWING NO.		4555.91		MAP NO.	E-19	
				SHEET	57 OF	



SEE SHEET 57

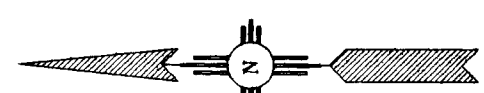
MATCH LINE STA. 51+00

MATCH LINE STA. 51+00



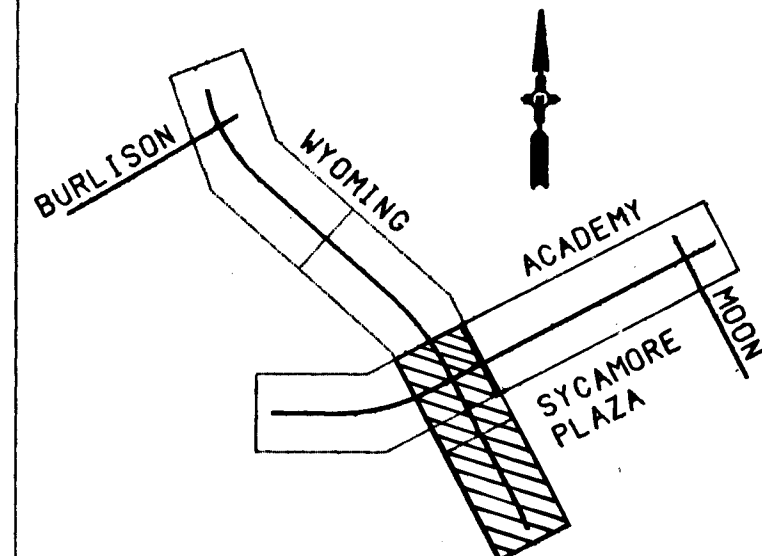
SYCAMORE PLAZA - TRAFFIC CONTROL PLAN WYOMING BOULEVARD - PHASE 1C

SCALE: 1"=50'



LEGEND

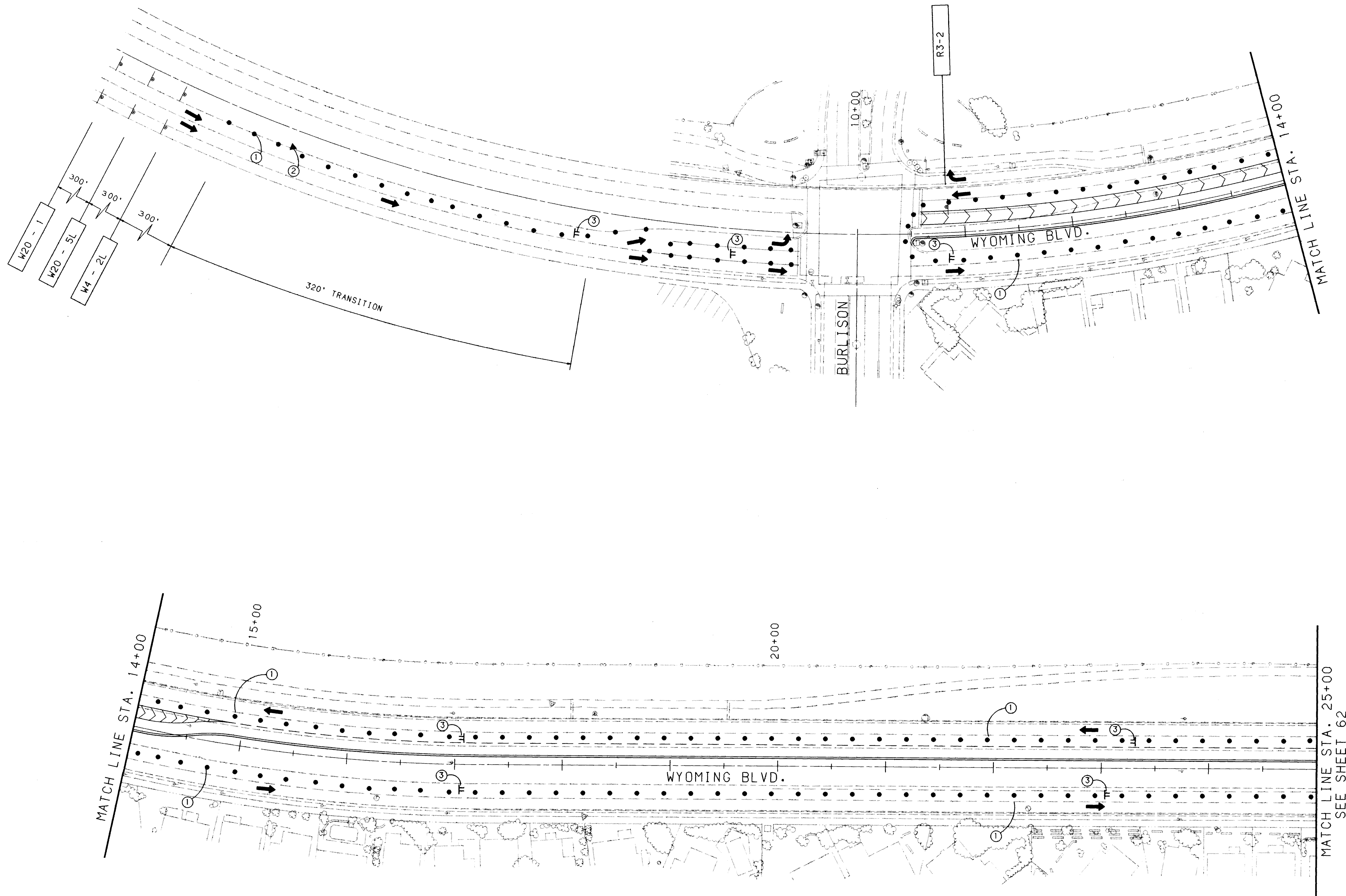
KEY	SYMBOL	DESCRIPTION
①	W4-2	SIGN MUTCD SIGN CODE
②	•	CHANNALIZATION DEVICE BARRELS- TYPE B
③	▲	SEQUENTIAL ARROW
④	F	TYPE III BARRICADE 8' W/R11-2A LANE CLOSED & W1-6
⑤	F	TYPE III BARRICADE 8' W/R11-2 ROAD CLOSED
⑥	↑↑↑	LANES OPEN TO TRAFFIC DURING THIS PHASE OF CONSTRUCTION



LOCATION MAP

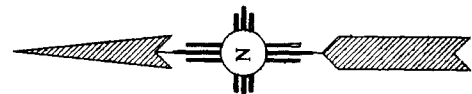
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 1C					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Bookley	2-17-93	WATER	W.A. 240	11/16/93
TRANSPORTATION	N/A	2-17-93	WASTE WATER	W.A. 240	11/16/93
HYDROLOGY	N/A	2-17-93	TRAF. OPER.	W.A. 240	1-26-93
DRAWING NO. 4555.91		MAP NO. E-19		SHEET 58 OF 58	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	NO.	DATE	NO.	DATE	NO.	DATE	NO.
INSPECTOR'S	NO.	DATE	INSPECTOR'S	NO.	DATE	INSPECTOR'S	NO.
ACCEPTANCE BY	NO.	DATE	ACCEPTANCE BY	NO.	DATE	ACCEPTANCE BY	NO.
FIELD LOCATION BY	NO.	DATE	FIELD LOCATION BY	NO.	DATE	FIELD LOCATION BY	NO.
DRAWINGS	NO.	DATE	DRAWINGS	NO.	DATE	DRAWINGS	NO.
CORRECTED BY	NO.	DATE	CORRECTED BY	NO.	DATE	CORRECTED BY	NO.
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY	NO.	DATE	RECORDED BY	NO.	DATE	RECORDED BY	NO.



SYCAMORE PLAZA - TRAFFIC CONTROL PLAN
WYOMING BOULEVARD PHASE 2

SCALE: 1"=50'



LEGEND

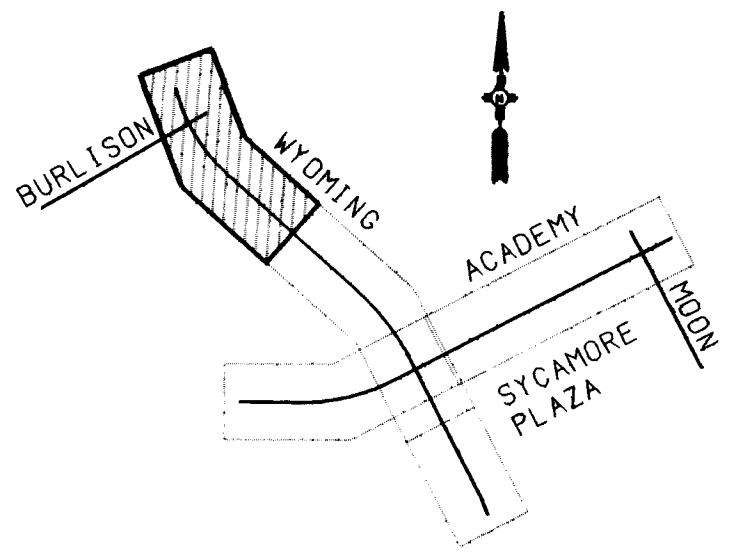
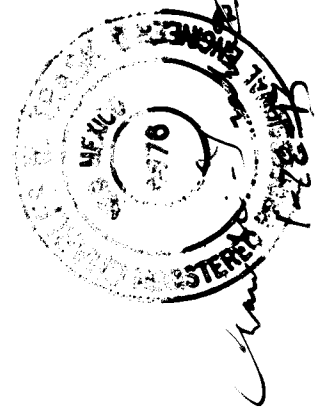
KEY	SYMBOL	DESCRIPTION
	—	SIGN
	W4-2	MUTCD SIGN CODE
①	•	CHANNALIZATION DEVICE BARRELS- TYPE B
②	▲	SEQUENTIAL ARROW
③	F	TYPE III BARRICAD 8' W/R11-2A LANE CLOSED & Wt-6
④	F	TYPE III BARRICAD 8' W/R11-2 ROAD CLOSED
	↑↑	LANES OPEN TO TRAFFIC DURING THIS PHASE OF CONSTRUCTION

AS BUILT INFORMATION			
CONTRACTOR	DATE	BY	NO.
STAKED BY	DATE	BY	NO.
FIELD	DATE	BY	NO.
DRAMING	DATE	BY	NO.
CORRECTED BY	DATE	BY	NO.
MICRO-FILM INFORMATION			
RECORDED BY	DATE	BY	NO.

BENCH MARKS			
CONTRACTOR	DATE	BY	NO.
STAKED BY	DATE	BY	NO.
FIELD	DATE	BY	NO.
DRAMING	DATE	BY	NO.
CORRECTED BY	DATE	BY	NO.

SURVEY INFORMATION			
FIELD NOTES	DATE	BY	NO.
CONTRACTOR	DATE	BY	NO.
STAKED BY	DATE	BY	NO.
FIELD	DATE	BY	NO.
DRAMING	DATE	BY	NO.
CORRECTED BY	DATE	BY	NO.

ENGINEER'S SEAL			
NO.	DATE	BY	NO.
REMARKS	DATE	BY	NO.
DESIGNED BY CMT	DATE 1-93	BY	NO.
DRAWN BY CJT	DATE 1-93	BY	NO.
CHECKED BY CWT	DATE 1-93	BY	NO.



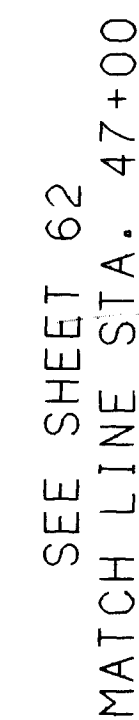
LOCATION MAP



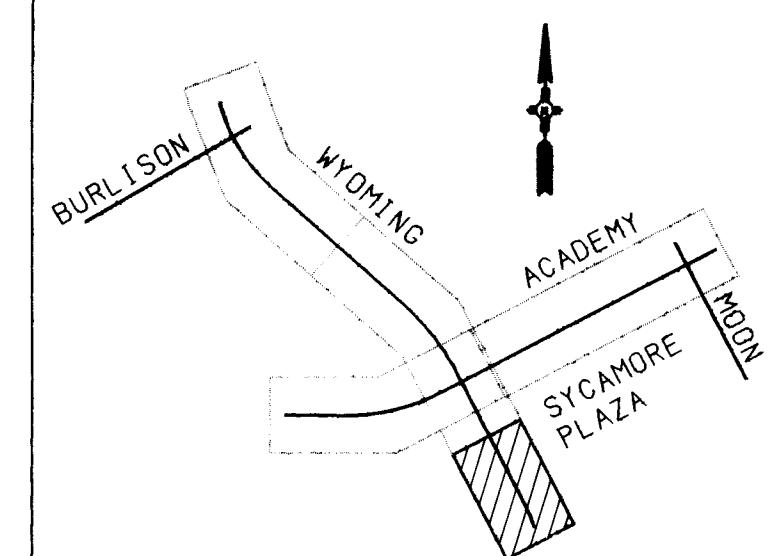
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP



TITLE: SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 2					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.P. Koolhaas	2-17-93	WATER	W.P. Koolhaas	11 Feb 93
TRANSPORTATION	N/A	2-17-93	WASTE WATER	N/A	11 Feb 93
HYDROLOGY	N/A	2-17-93	CONSTR. COORD.	N/A	1-26-93
DRAWING NO.	4555.91	MAP NO. E-19	SHEET 61	OF 61	



SCALE: 1"=50'



LEGEND

AS BUILT INFORMATION
CONTRACTOR
WORK SIGNED BY
DATE
ACCEPTANCE BY
DATE
FIELD VERIFICATION BY
DATE
CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

[illegible][illegible]

Professional Engineer Seal for the State of Florida, No. 12586, signed by Ch. W. Odeh.

[illegible]

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE:		SYCAMORE PLAZA OFFSITE PUBLIC IMPROVEMENTS WYOMING/ACADEMY TRAFFIC CONTROL PLAN - PHASE 2					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	<i>B. B. Soderberg</i>	<i>2-17-93</i>	WATER	<i>W. B. Soderberg</i>	<i>17 Feb 93</i>		
TRANSPORTATION	<i>N/A RHO</i>	<i>2-17-93</i>	WASTE WATER		<i>17 Feb 93</i>		
HYDROLOGY	<i>N/A GH</i>	<i>2-17-93</i>	CONSTR. COORD.	<i>Frank B. Rye</i>	<i>1-26-93</i>		
DRAWING NO.		4555.91		MAP NO.		F-19	
				SHEET		63 OF	

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 WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. 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 TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

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

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPANCY OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

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

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

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

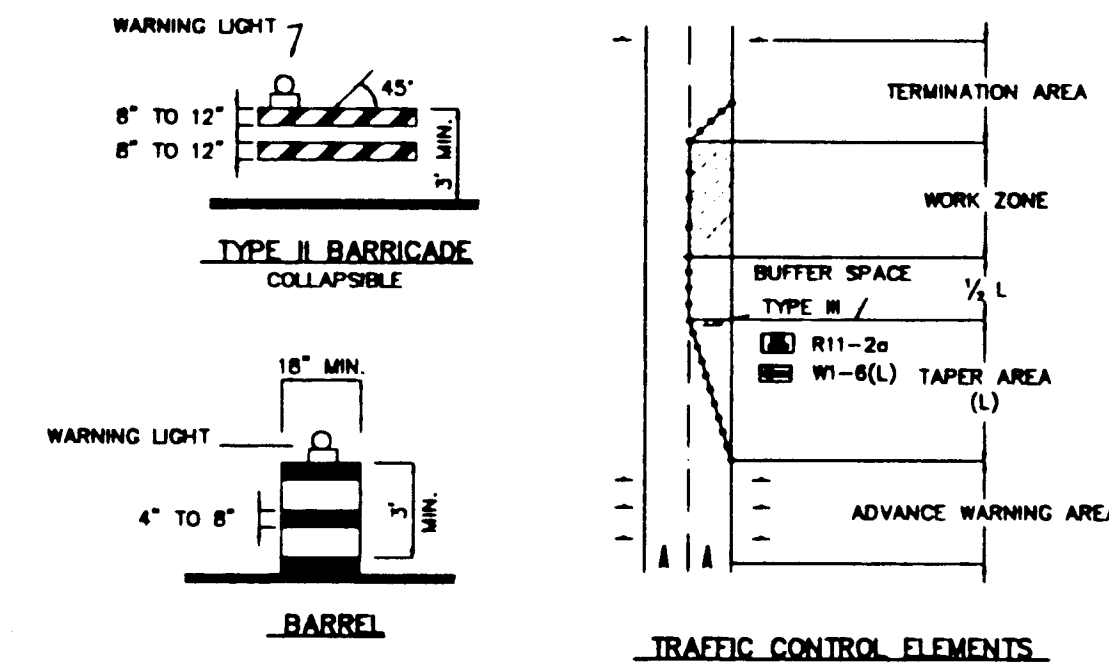
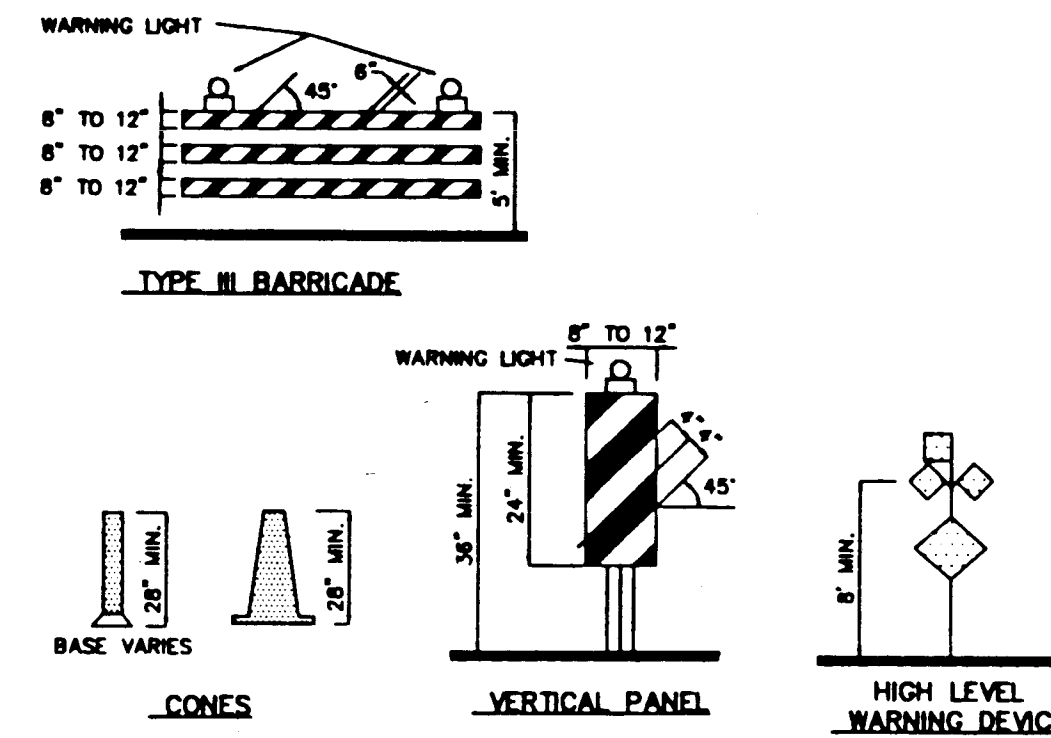
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

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

26. EACH SIGN SHOWN ON THE PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1988 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, COLORS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.

27. SIGNS W20-1, W20-5(R), W4-2(R), W4-2(L), AND W4-2(L) SHALL BE USED WITH A W13-1 ADVISORY SPEED PLATE. SPEED, 30 MPH OR LESS, TO BE DETERMINED IN THE FIELD.



LEGEND

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

TAPER REQUIREMENTS

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

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

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

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/3 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

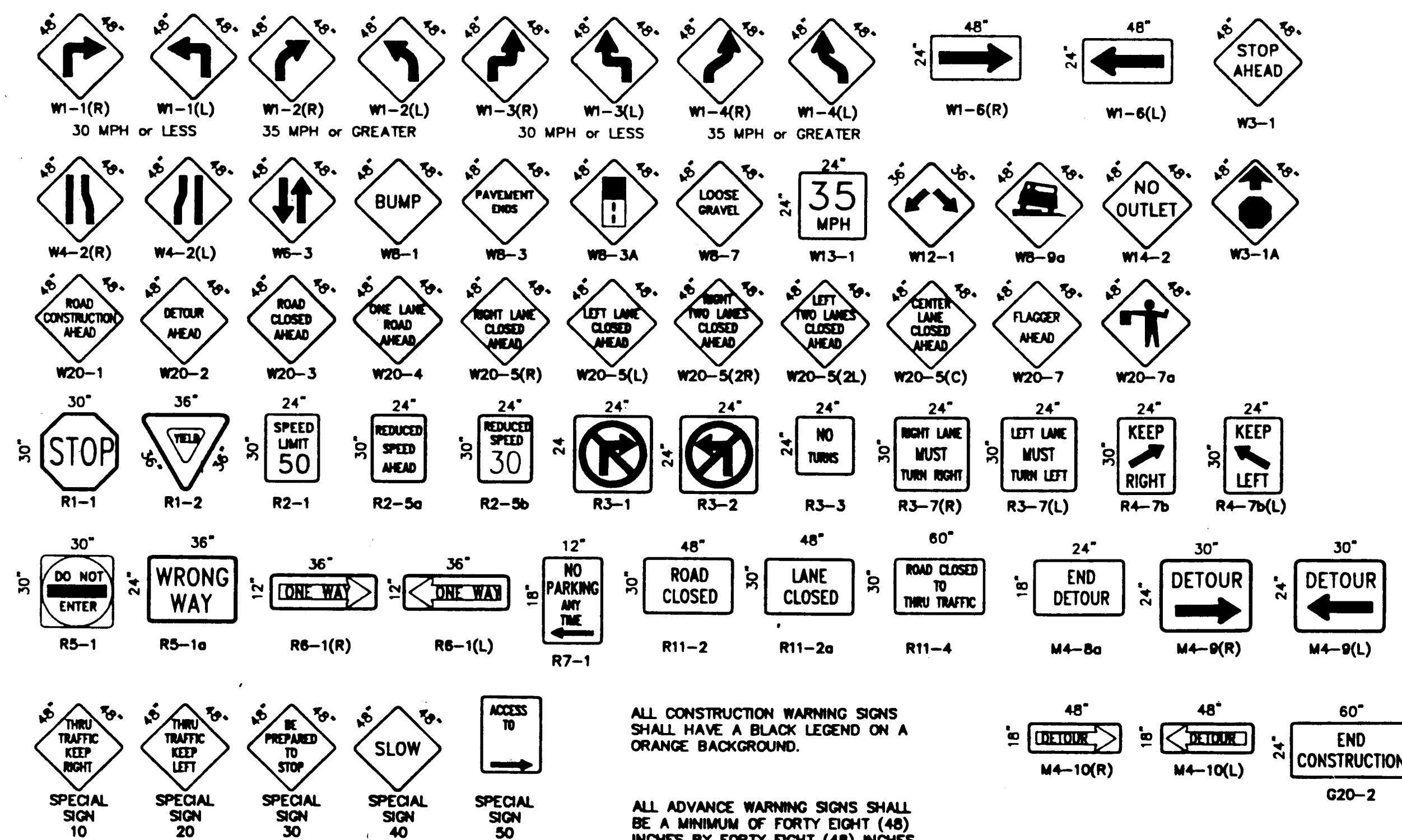
TAPER LENGTH COMPUTATION

SPEED LIMIT	L = W x S
40 MPH OR LESS	L = W x S
45 MPH OR GREATER	L = W x S

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

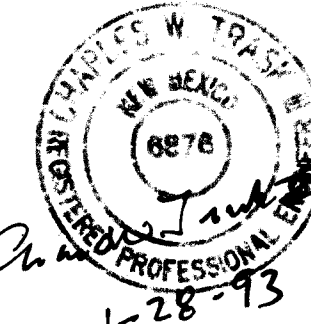
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26 14556.916673

SIGN FACE DETAILS



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

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE:					
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	2-17-93	2-17-93	WATER	17-93	17-93
TRANSPORTATION	2-17-93	2-17-93	WASTE WATER	17-93	17-93
HYDROLOGY	2-17-93	2-17-93	CONSTR. COORD.	17-93	17-93
PROJECT NO. 4555.91		MAP NO. E-19		SHEET OF 66	

