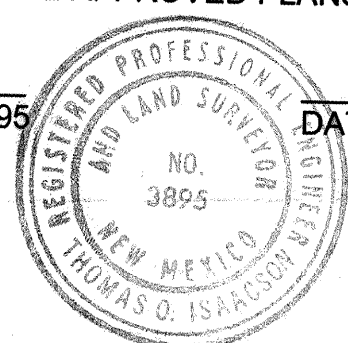


RECORD DRAWING CERTIFICATION
I, HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THESE DRAWINGS HAS BEEN REVISED IN ACCORDANCE WITH INFORMATION OBTAINED FROM FIELD CONSTRUCTION BY THE CONTRACTOR, AUI, INC. AND REFLECTS THE CONSTRUCTION AS ACTUALLY ACCOMPLISHED. THESE PLANS AS CONSTRUCTED ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS.

Thomas O. Isaacson
THOMAS O. ISAACSON, NMPE & LS NO. 3895



10/24/03
DATE

CONSTRUCTION PLANS FOR COMANCHE ROAD MEDIAN RECONSTRUCTION AND LANDSCAPING PHASE I PROJECT NO. 588292 PUBLIC WORKS DEPARTMENT CITY OF ALBUQUERQUE

GENERAL NOTES

- All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction 1986 Edition as amended with Update No. 6.
- Prior to construction, the Contractor shall excavate & verify the horizontal and vertical locations of all obstructions, including traffic signal conduit. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with minimum delay.
- Two (2) working days prior to any excavation, Contractor must contact New Mexico One Call System @ 260-1990 for location of existing utilities.
- Contractor shall conduct his operations in a manner which will minimize interference with local traffic. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property, and to protect them from damage, injury, or loss. Contractor shall erect and maintain, as required by the conditions and progress of the work, all necessary safeguards for safety continuously and not limited to normal working hours, throughout the duration of the project. Contractor shall adhere to Section 19 of the General Conditions of the City of Albuquerque Standard Specifications for Public Works Construction, 1986, as amended with Update No. 6.
- The Contractor agrees that he shall assume the sole and complete responsibility for the job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold harmless the Owner & Engineer from any and all liability real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or Engineer.
- TRAFFIC CONTROL: Five (5) working days prior to beginning construction the Contractor shall submit to the Construction Coordination Division a detailed construction schedule. Two (2) working days prior to construction, the Contractor shall obtain a barricading permit from the Construction Coordination Division. Contractor shall notify Barricade Engineer (768-2551) prior to occupying an intersection. See Section 19 of the specifications.
- The Contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street or into any public drainage facility.
- Contractor shall assist the Engineer/Inspector in the recording of data on all utility lines and accessories as required by the City of Albuquerque for the preparation of record drawings. Contractor shall not cover utility lines and accessories until all data has been recorded. Record drawings shall be prepared by the consultant using information supplied by the contractor and the City Inspector.
- Existing curb and gutter, sidewalks and driveways not to be removed under the contract which are damaged or displaced by the Contractor, shall be removed and replaced by the Contractor at his expense.
- 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.
- The Contractor is responsible for protecting and maintaining all existing monumentation controls. In the event of inadvertent destruction or alteration, the Contractor must immediately notify the City Chief Surveyor.

INDEX TO DRAWINGS

SHEET	TITLE
1	COVER SHEET
	<u>PAVING PLAN & PROFILE SHEETS</u>
2	COMANCHE ROAD - STA 52+50 TO 57+00
3	COMANCHE ROAD - STA 57+00 TO 65+00
4	COMANCHE ROAD - STA 65+00 TO 73+00
5	COMANCHE ROAD - STA 73+00 TO 81+00
6	COMANCHE ROAD - STA 81+00 TO 89+00
7	COMANCHE ROAD - STA 89+00 TO 97+00
8	COMANCHE ROAD - STA 97+00 TO 105+00
9	COMANCHE ROAD - STA 105+00 TO 110+15
10	MEDIAN DETAILS & STREET SECTIONS
11	SPECIAL WHEELCHAIR RAMP, SIDEWALK CULVERT DETAILS, TRAFFIC SIGNAL NOTES & FUNCTION CHART
12	LOOP DETECTOR & LARGE PULL BOX DETAILS
13	TYPICAL TRAFFIC STRIPING & MARKINGS PLANS
14	TRAFFIC CONTROL NOTES & STANDARDS
15	TYPICAL TRAFFIC CONTROL STREET CLOSURE PLANS
16-19	LANDSCAPING PLANS
20-23	IRRIGATION PLANS
24	PLANTING & IRRIGATION NOTES
25	PLANTING & IRRIGATION DETAILS

12. WARNING--EXISTING UTILITY LINE LOCATIONS are shown in an approximate manner only, and such lines may exist where none are shown. The location of any such existing lines is based upon information provided by the utility company, the Owner, or by others, and the information may be incomplete or may be obsolete by the time construction commences.

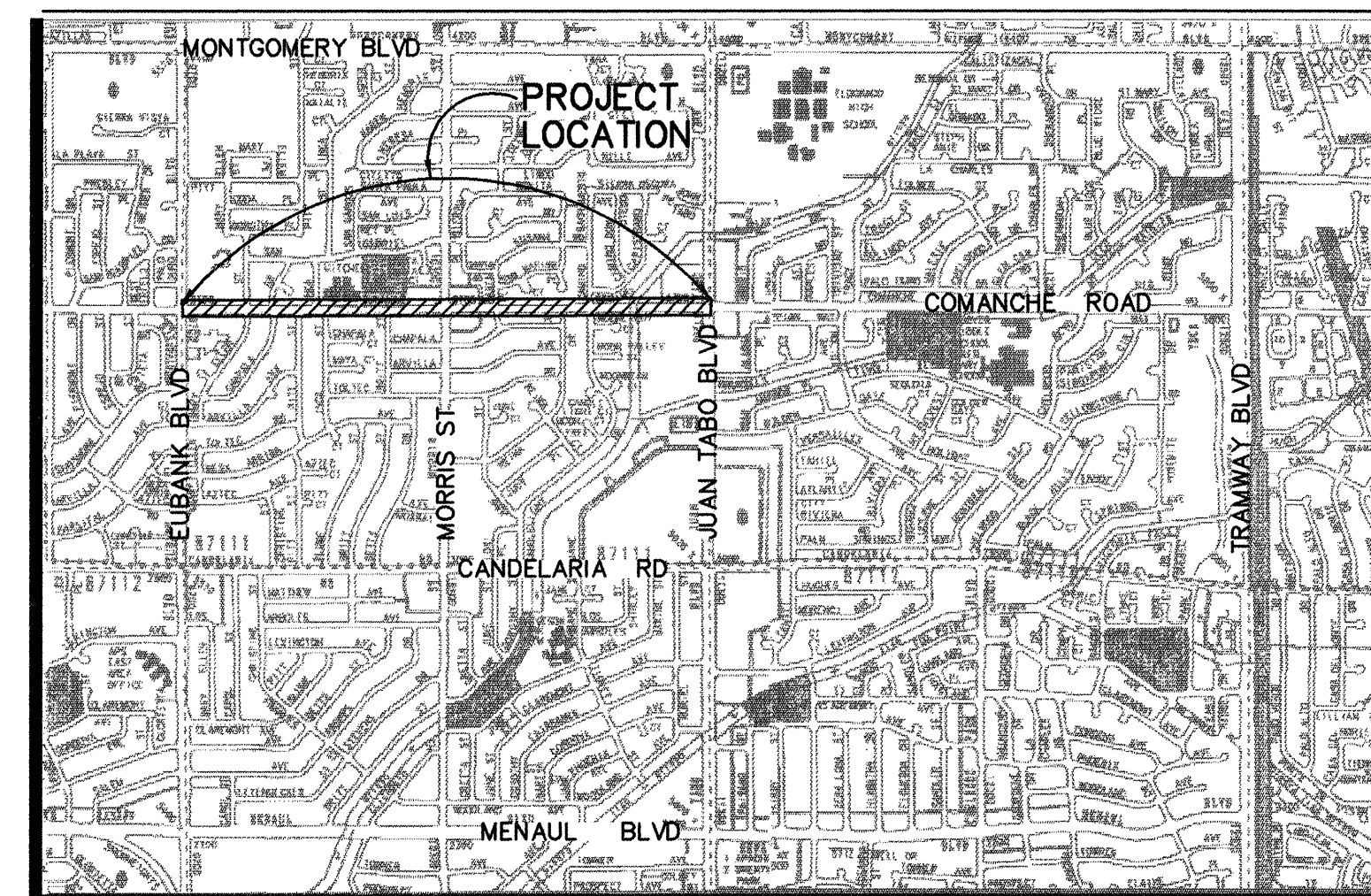
The Engineer has undertaken no field verification of the location, depth, size, or type of existing underground utility lines, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The Contractor shall inform itself of the location of any utility line in or near the area of the work in advance of and during excavation work. The Contractor is fully responsible for any and all damage caused by its failure to locate, identify, and preserve any and all existing utilities. The Contractor shall comply with State statutes, municipal and local ordinances, rules and regulations pertaining to the location of these lines and facilities, in planning and conducting excavation, whether by calling or notifying the utilities, complying with "Blue Stakes" procedures, or otherwise.

UTILITY COMPANY CONTACTS

Crowel, David	Office phone: (505) 842-2911 Office fax: 842-2890 dcrowel@att.com	AT&T Resource Supervisor 111 3rd Street NW Albuquerque, NM 87103
Darnell, Andy	Office phone: (505) 346-4476 Office fax: 346-4481 andy.darnell@comcast.com	MCI Worldcom Operations Manager 3700 Singer NE, Suite A Albuquerque, NM 87109
Erickson, Rita	Office phone: (505) 761-6235 Office fax: (505) 761-0599 rita_erickson@cable.comcast.com	Comcast Planning and Design Supervisor 4611 Montbel Place NE Albuquerque, NM 87107
Gabel, Elisabeth	Office phone: (505) 241-7745 Office fax: (505) 241-7753 egabel@pnm.com	PNM - Gas Co. of NM Planning Engineer 4625 Edith Blvd. NE MS-GS66 Albuquerque, NM 87107
Garcia, Robert	Office Phone: (505) 241-3334 Office Fax: (505) 241-3620 rgarcia@pnm.com	PNM - Electric Engineering Representative 4201 Edith Blvd. NE Albuquerque, NM 87107
Gay, Bob	Office phone: (505) 898-2661 Office fax: 898-6379 bobgaynm@yahoo.com	New Mexico Utilities Operations Superintendent 4700 Irving Blvd. NW Suite 201 Albuquerque, NM 87114
Harrison, Royal	Office phone: (505) 938-7339 Office fax: 938-7380 Royal.Harrison@twtelecom.com	Time Warner Telecom Plant Manager 3830 Singer Blvd. NE Suite 1000 Albuquerque, NM 87109
Mares, John	Office phone: (505) 998-2274 Office fax: 998-9161 john.mares@espire.net	E. Spire 505 Marquette NW Suite 1605 Albuquerque, NM 87102
Mueller, Rick	Office phone: (505) 244-3161 Office fax: 244-0094 Mobile: 228-3329 rdmueller@mcleodusa.com	McLeod USA Supervisor of Outside Techs. 505 Marquette NW (Compass Bank) Suite 1600 Albuquerque, NM 87102
Muller, David	Office phone: (505) 245-8706 Office fax: 245-6831 or 245-6733 dmuller@uswest.com	Qwest/US West Capacity Provisioning Specialist 201 3rd Street NW (Bank of Albuquerque) Suite 700 Albuquerque, NM 87102
Nelson, Joshua	Mobile: (505) 991-2120 Office fax: (505) 217-0070 jhcocook_jn@att.net	CityNet Telecommunications Consultant 505 Marquette Ave. N.W. Suite 119-A Albuquerque, NM 87102
Olson, Greg	Office phone: (505) 768-2719 Office fax: (505) 768-3629 golson@coba.gov	City Of Albuquerque Principal Engineer, Utility Development P.O. Box 1293 Albuquerque, NM 87103
Turley, Tom	Office phone: (636) 561-0339 Office fax: (636) 561-0355 tom.turley@genuity.com	Genuity Supervisor - OSP Maintenance 50 Centre on the Lake Lake Saint Louis, MO 63367

Thomas O. Isaacson
10/24/03
RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
1228 Monroe Street N.E.
Albuquerque New Mexico
0172CVR.DWG-4 09/16/02



MAP 26 & 27, CITY ATLAS (G21 & G22)

LOCATION MAP

- Graded access for residents and businesses across the construction zone shall be maintained during construction.
- The Contractor shall be responsible for notifying utilities for any adjustment or relocation of existing utilities required by construction. The Contractor may be required to reschedule his activities to allow utility crews to perform their work. No additional costs will be allowed for delays or inconvenience caused by utility company crews.
- The Contractor shall confine his work within the street right-of-way. Overnight parking of the Contractor's equipment shall not obstruct access roads or traffic lanes.
- The contractor shall video tape the entire project work area prior to beginning construction work to record pre-construction conditions. Video-taping shall include traffic signals, school beacons, and traffic signs located in the medians. One set of videotapes shall be delivered to Ed Toledo, Traffic Engineering Operations prior to beginning construction.
- All excavation, trenching and shoring must be accomplished in accordance with OSHA 29CFR 1926.650 Subpart P.
- Contractor to notify residents 48 hours in advance of any road closures.
- Open excavations shall be tightly barricaded at the completion of each day and all open excavations shall be backfilled over weekends.
- All roadways shall be opened to traffic at the end of each day.
- Contractor shall maintain a graffiti-free work site. Contractor shall promptly remove any and all graffiti from equipment, whether permanent or temporary.
- The abbreviation "MUTCD" given in construction notes refers to the manual on Uniform Traffic Control Devices, latest addition.
- See "SPECIAL PROJECT TRAFFIC CONTROL NOTE", Sheet 14, for lane opening requirements.
- The contractor shall provide all required construction surveys including as-built surveys for record drawings.

REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	*****		
		DRC Chairman		[Signature]		9-30-02	APPROVED FOR CONSTRUCTION		
		Transportation		[Signature]		9-25-02			
		Water/Wastewater		[Signature]		9-17-02			
		Hydrology		[Signature]		9-17-02			
		CIP		[Signature]		9-30-02			
City Project No.		588292		City Engineer		9/30/02	Sheet 1 Of 25		

GENERAL TRAFFIC CONTROL NOTES:

1. ALL WIRING TO BE CONNECTED PER TRAFFIC SIGNAL FUNCTION CHART, SHEET 11.
2. ALL CONDUIT CROSSING UNDER ROADWAYS & CURBING TO BE INSTALLED BY PUSHING, BORING, OR JACKING, EXCEPT WHERE CONDUIT IS LAID BETWEEN MEDIAN. CONDUIT TO BE SCHEDULE 40 PVC.
3. REMOVE & DISPOSE ALL EXISTING CONDUIT FILL.

GENERAL CONSTRUCTION NOTES:

1. WHERE CURB & GUTTER REMOVAL IS REQUIRED, REPLACE CURB & GUTTER PER COA STD DWG #2415.
2. REMOVE SIDEWALK AS REQUIRED FOR TRAFFIC SIGNAL CONDUIT & PULL BOX CONSTRUCTION AND REPLACE SIDEWALKS PER COA STD DWG #2430.

LEGEND - EXISTING IMPROVEMENTS

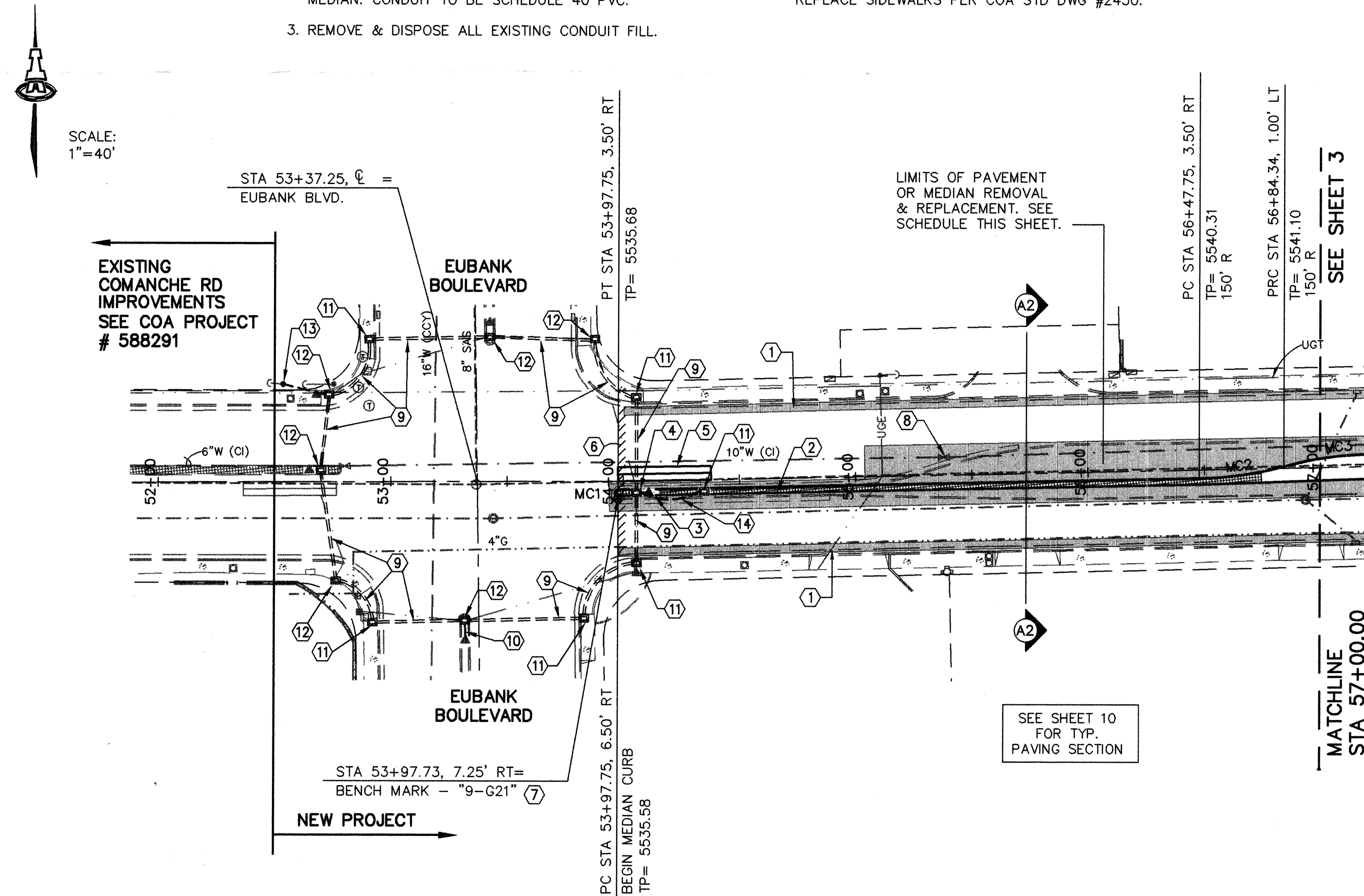
- | | |
|---|--|
| <ul style="list-style-type: none"> WATER VALVE TRAFFIC SIGNAL BOX TRAFFIC POLE WATER METER TELEPHONE PEDESTAL LIGHT POLE LIGHT/POWER POLE STORM DRAIN SIGN | <ul style="list-style-type: none"> CONCRETE AREA FIRE HYDRANT SANITARY/SEWER MANHOLE STORM SEWER MANHOLE ELECTRIC METER POWER POLE AND GUY WIRE CABLE PEDESTAL TELEPHONE MANHOLE |
|---|--|

KEYED CONSTRUCTION NOTES

1. STA 54+00.4 TO 57+20.8, LT. & STA 53+98.2 TO 57+20.8, RT, MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT AND BUILD 3.5' BIKE LANE PER SECTION A2, SHEET 10.
2. REMOVE & DISPOSE OF 28.6 SY EXISTING PATTERNED CONC. MEDIAN FILL.
3. STA 54+12.7, 5.8' RT, REMOVE EXISTING TRAFFIC SIGNAL RELOCATE TO STA 54+12.7, 5.0' RT. REMOVE & DISPOSE EXISTING PEDESTAL FOUNDATION & BUILD NEW PEDESTAL FOUNDATION PER COA STD DWG #2525. EXISTING TOP OF FOUNDATION= 5536.31 NEW TOP OF FOUNDATION= 5536.41
4. STA 54+12.7, 5.8' RT, REMOVE & DISPOSE EXISTING PULL BOX. INSTALL NEW LARGE PULL BOX AT STA 54+12.7, 5.0' RT, SEE DETAILS SHEET 12. TOP OF BOX ELEV= 5536.28.
5. BUILD NEW 6'x40' QUADRUPLE LOOP DETECTOR AND CONNECT TO NEW PULL BOX. SEE LOOP DETECTOR DETAILS SHEET 12.
6. BEGIN PLANT MIX SEAL COAT.
7. ACS MONUMENT 9-G21. CONTRACTOR TO NOTIFY CITY SURVEYOR'S OFFICE 7 DAYS IN ADVANCE OF CONSTRUCTION TO ENSURE PRESERVATION OF MONUMENT.
8. EXISTING WATERLINE VALVE BOX. NO ADJUSTMENT NECESSARY.
9. INSTALL NEW 1 ea-3" & 1 ea-2" CONDUITS W/ (2)- #20 MCC & (1)- #5 MCC AND ALL NECESSARY SINGLE CONDUCTORS & DETECTOR CABLES.
10. INSTALL NEW 3" CONDUIT & CABLE FILL BETWEEN PULL BOX & TRAFFIC SIGNAL, TYPICAL AT ALL TRAFFIC SIGNALS.
11. INSTALL NEW LARGE PULL BOX, SEE DETAILS SHEET 12.
12. REMOVE & DISPOSE EXISTING PULL BOX. INSTALL NEW LARGE PULL BOX, SEE DETAILS SHEET 12.
13. INSTALL NEW METERED ELECTRICAL SERVICE.
14. INSTALL NEW 3" CONDUIT & CABLE FILL FOR LOOP DETECTOR.

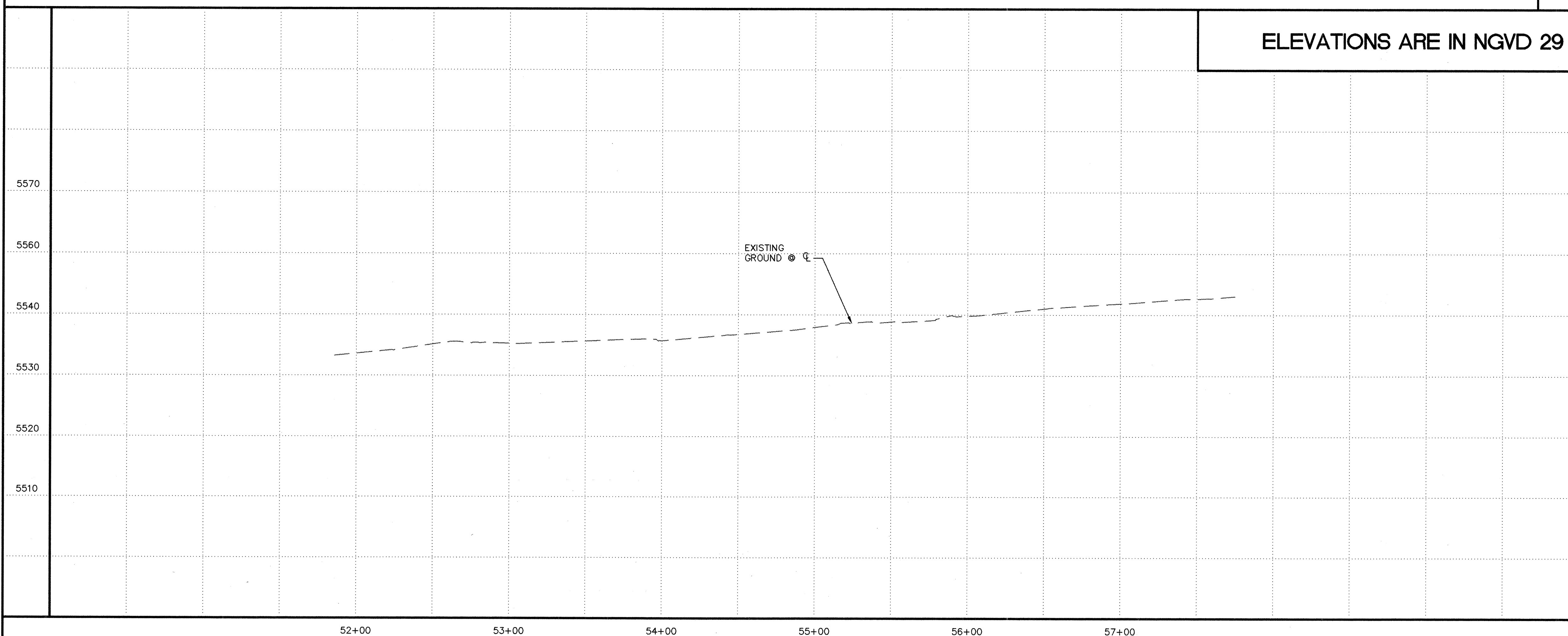
CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC1	1.50	4.71	180°00'00"
MC2	150.00	36.96	14°07'03"

SCALES:
1"=40' HOR.
1"=10' VERT.



COMANCHE ROAD

ELEVATIONS ARE IN NGVD 29



PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
53+86	55+04	10'
55+04	57+00	24'

FOR INFORMATION ONLY
FOR INFORMATION ONLY
RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172PV2.DWG
08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 52+50.00 TO STA 57+00.00
PAVING PLAN & PROFILE

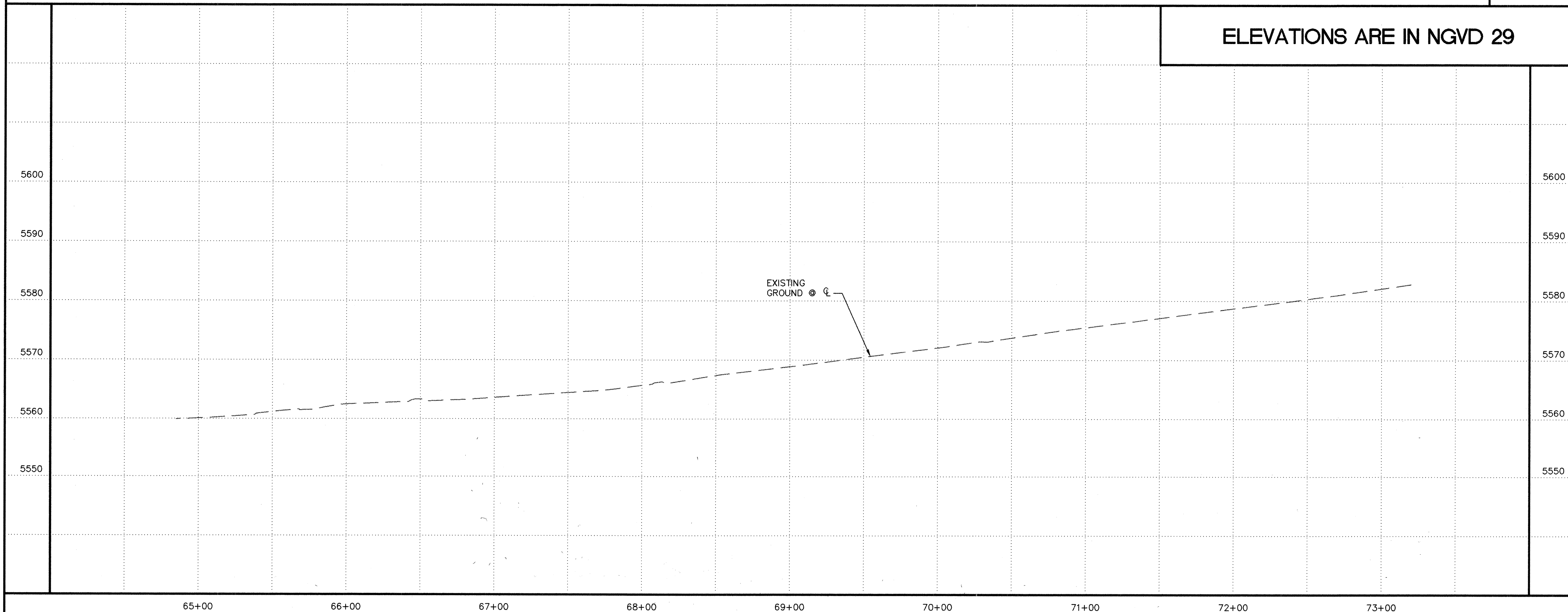
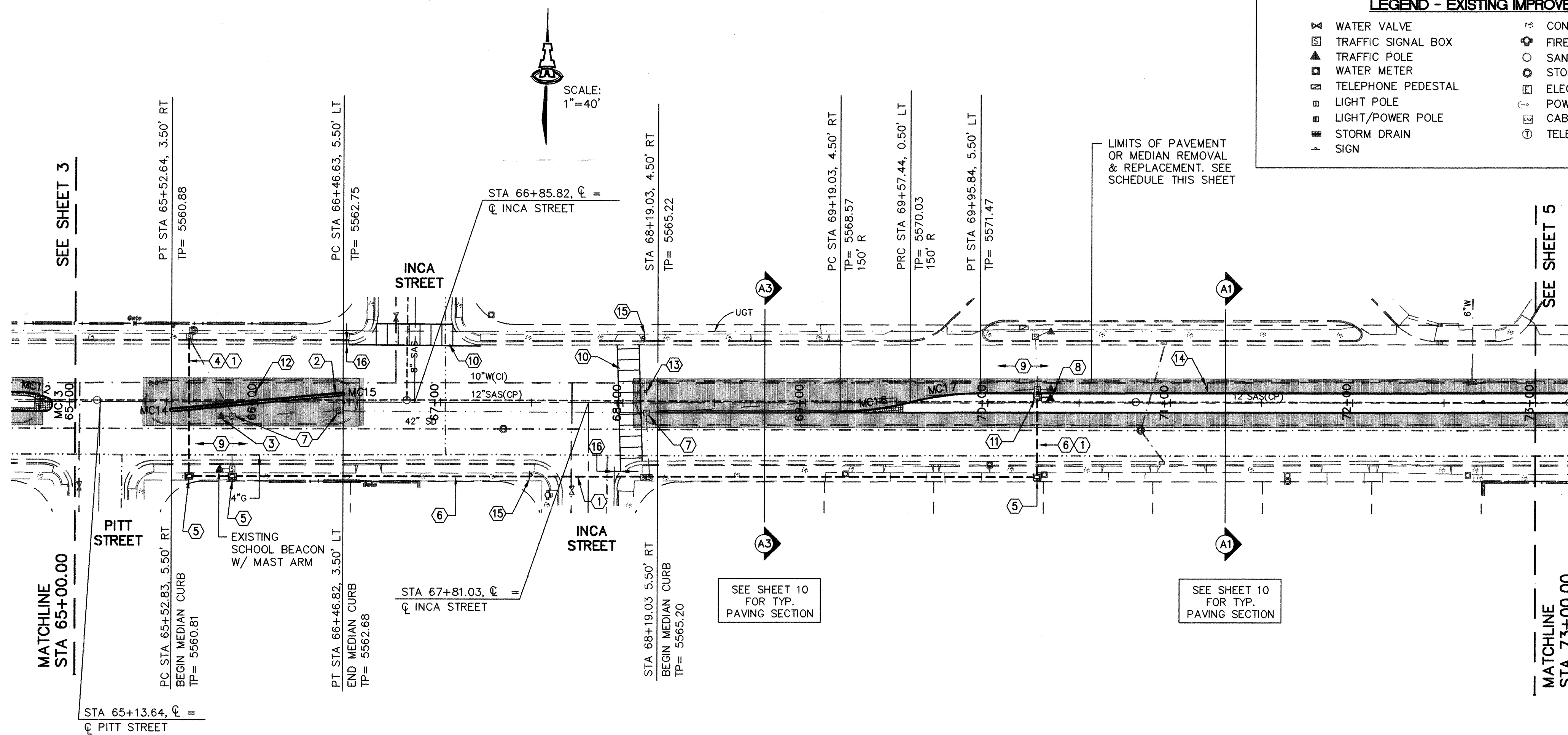
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
DESIGNED BY	DRAWN BY	CHECKED BY	TOI
DATE	DATE	DATE	DATE
9/03	9/03	9/03	9/03

City Engineer's Seal: 588292, G21

AS-BUILT INFORMATION			
CONTRACTOR	DATE	BY	DATE
AS-BUILT	9/03	AS-BUILT	9/03
BENCH MARKS			
STANDARD ACS BRASS TABLE STAMPED "9-G21" DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	2/99	12/01	
NM STATE PLANE COORDINATES (NAD 1927)			
X=415515.66 Y=1500259.11 G-G FACTOR: 0.9996434			
ELEVATION = 5536.00 FEET (SID 1929)			
SURVEY INFORMATION			
FIELD NOTES	2/99	12/01	
SURV-TEK, INC.	ALS		
1	1		
ENGINEER'S SEAL			
NO.	DATE	DESIGNED BY	DATE
9/03	9/03	TOI	12/01
REVISIONS	DESIGN	DRAWN BY	DATE
		RFH	12/01
CHECKED BY	TOI	DATE	12/01

Sheet 2 of 25

[illegible]



CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC12	50.00	18.16	20°48'25"
MC13	4.00	11.11	159°11'35"
MC14	1.00	3.15	179°29'11"
MC15	1.00	3.15	179°29'10"
MC16	150.00	38.84	14°50'06"
MC17	150.00	38.84	14°50'06"

PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
65+37	66+58	24'
68+06	73+00	24'

RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street, N.E.
Albuquerque, New Mexico 87102
0172P-V4.DWG/rh 08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 65+00.00 TO STA 73+00.00
PAVING PLAN & PROFILE

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

City Project No. 588292 Zone Map No. G21

Sheet 4 Of 25

GENERAL TRAFFIC CONTROL NOTES:

1. ALL WIRING TO BE CONNECTED PER TRAFFIC SIGNAL FUNCTION CHART, SHEET 11.
2. ALL CONDUIT CROSSING UNDER ROADWAYS & CURBING TO BE INSTALLED BY PUSHING, BORING, OR JACKING, EXCEPT WHERE CONDUIT IS LAID BETWEEN MEDIAN. CONDUIT TO BE SCHEDULE 40 PVC.
3. REMOVE & DISPOSE ALL EXISTING CONDUIT FILL.

GENERAL CONSTRUCTION NOTES:

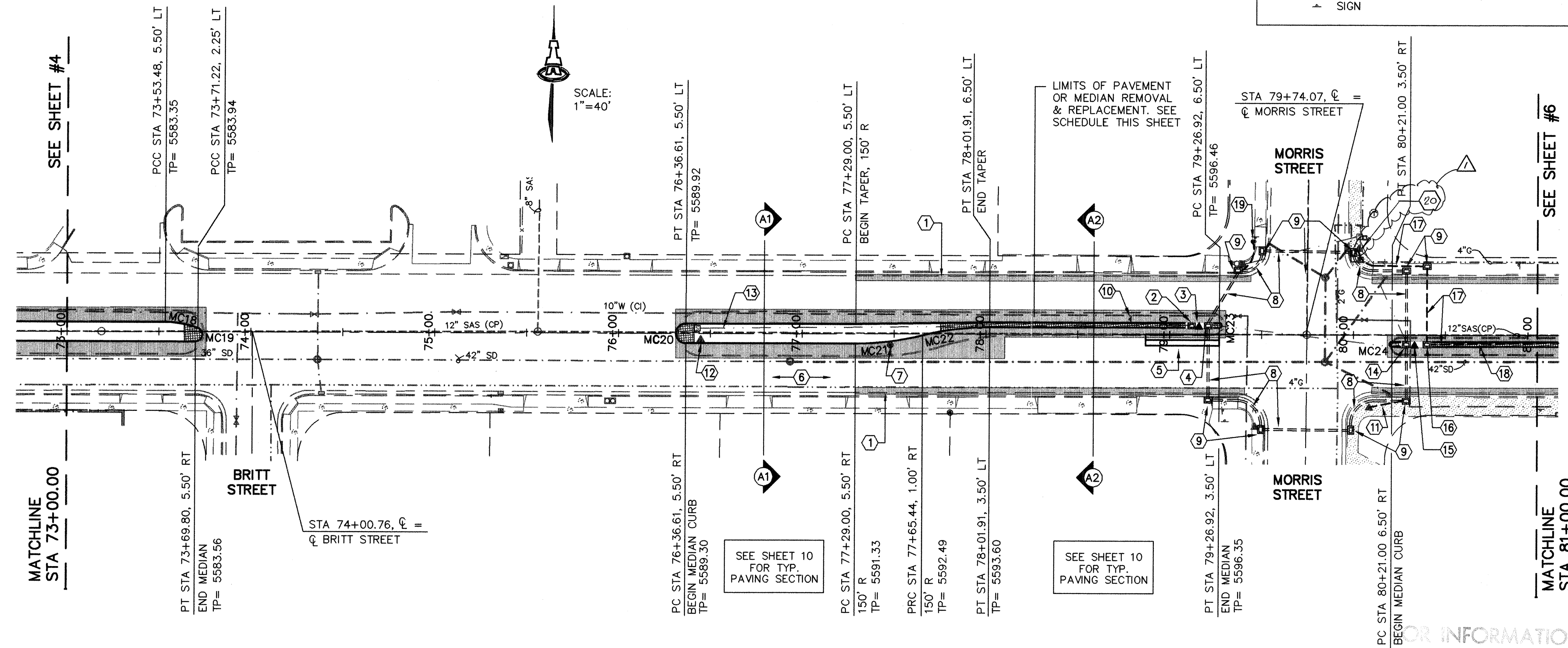
1. WHERE CURB & GUTTER REMOVAL IS REQUIRED, REPLACE CURB & GUTTER PER COA STD DWG #2415.
2. REMOVE SIDEWALK AS REQUIRED FOR TRAFFIC SIGNAL CONDUIT & PULL BOX CONSTRUCTION AND REPLACE SIDEWALKS PER COA STD DWG #2430.

LEGEND - EXISTING IMPROVEMENTS

- WATER VALVE
- TRAFFIC SIGNAL BOX
- TRAFFIC POLE
- WATER METER
- TELEPHONE PEDESTAL
- LIGHT POLE
- LIGHT/POWER POLE
- STORM DRAIN
- SIGN
- CONCRETE AREA
- FIRE HYDRANT
- SANITARY/SEWER MANHOLE
- STORM SEWER MANHOLE
- ELECTRIC METER
- POWER POLE AND GUY WIRE
- CABLE PEDESTAL
- TELEPHONE MANHOLE

KEYED CONSTRUCTION NOTES

1. STA 77+29.0 TO STA 79+44.0, LT. AND STA 77+29.0 TO STA 79+40.7, RT. MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT AND BUILD 3.5' BIKE LANE PER SECTION A2, SHEET 10.
2. STA 79+12.0, 5.0' LT., REMOVE & DISPOSE EXISTING TRAFFIC SIGNAL PULL BOX. INSTALL NEW PULL BOX AT STA 79+12.0, 5.0' LT. ADJUST CONDUIT SOUTH TO NEW BOX LOCATION.
3. STA 54+12.7, 5.8' RT, REMOVE EXISTING TRAFFIC SIGNAL & RELOCATE TO STA 54+12.7, 5.0' RT. REMOVE & DISPOSE EXISTING PEDESTAL FOUNDATION & BUILD NEW PEDESTAL FOUNDATION PER COA STD DWG #2525. NEW TOP OF FOUNDATION= 5596.63
4. STA 79+20.9, 5.5' LT., REMOVE & DISPOSE EXISTING PULL BOX. STA 79+20.9, 5.0' LT., INSTALL NEW LARGE PULL BOX, SEE DETAILS SHEET 12. TOP OF BOX ELEV= 5596.77.
5. BUILD NEW 6'x40' QUADRUPLE LOOP DETECTOR AND CONNECT TO PULL BOX. SEE LOOP DETECTOR DETAILS SHEET 12.
6. CONSTRUCT "SCHOOL/XING XING" PAVEMENT MARKINGS PER MUTCD SPECIFICATIONS.
7. CONTROL POINT, #5 REBAR FOUND.
8. INSTALL NEW 1 ea - 3" & 1 ea - 2" CONDUITS W/ (2) - #20 MCC & (1) - #5 MCC AND ALL NECESSARY SINGLE CONDUCTORS & DETECTOR CABLES.
9. INSTALL NEW LARGE PULL BOX, SEE DETAILS SHEET 12.
10. REMOVE AND INSTALL NEW "END SCHOOL ZONE" SIGN.
11. INSTALL NEW 3" CONDUIT & CABLE FILL BETWEEN PULL BOX & TRAFFIC SIGNAL, TYPICAL AT ALL TRAFFIC SIGNALS.
12. EXISTING SCHOOL BEACON, PROTECT DURING CONSTRUCTION.
13. EXISTING CONDUIT & FILL SERVICING SCHOOL BEACON. CONTRACTOR TO UNCOVER & DETERMINE COVER DEPTH. REMOVE & REPLACE CONDUIT & CABLE FILL BETWEEN PULL BOXES IF COVER IS LESS THAN CODE (24").
14. STA 80+28.9, 5.7' RT., REMOVE & DISPOSE EXISTING PULL BOX. STA 80+28.9, 5.0' RT., INSTALL NEW LARGE PULL BOX, SEE DETAILS SHEET 12.
15. STA 80+33.2, 5.5' RT, REMOVE EXISTING TRAFFIC SIGNAL & RELOCATE TO STA 80+33.2, 5.0' RT. REMOVE & DISPOSE EXISTING PEDESTAL FOUNDATION & BUILD NEW PEDESTAL FOUNDATION PER COA STD DWG #2525. TOP OF FOUNDATION ELEV= 5599.52
16. STA 80+40.0, 5.0' RT, INSTALL LARGE PULL BOX FOR COMMUNICATION CABLE, SEE DETAILS SHEET 12.
17. INSTALL 3" CONDUIT W/ NEW (6) PAIR COMMUNICATION CABLE. CONNECT AT SPLICING CABINET.
18. REMOVE AND INSTALL NEW "END SCHOOL ZONE" SIGN.
19. INSTALL NEW METERED ELECTRICAL SERVICE.
20. Installed New Splicing Cabinet



COMANCHE ROAD

FOR INFORMATION ONLY
RECORD DRAWING

SCALES:
1"=40' HOR.
1"=10' VERT.

ELEVATIONS ARE IN NGVD 29

EXISTING GROUND

FOR INFORMATION ONLY

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC18	50.00	18.16	20°48'25"
MC19	4.00	11.11	159°11'35"
MC20	5.50	17.28	180°00'00"
MC21	150.00	36.83	14°04'12"
MC22	150.00	36.83	14°04'12"
MC23	1.50	4.71	180°00'04"
MC24	1.50	4.71	180°00'00"

PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
73+00	73+76	24'
76+31	78+11	24'
78+11	79+31	13'
80+19	80+00	10'

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172PV5.DWG 08/24/02

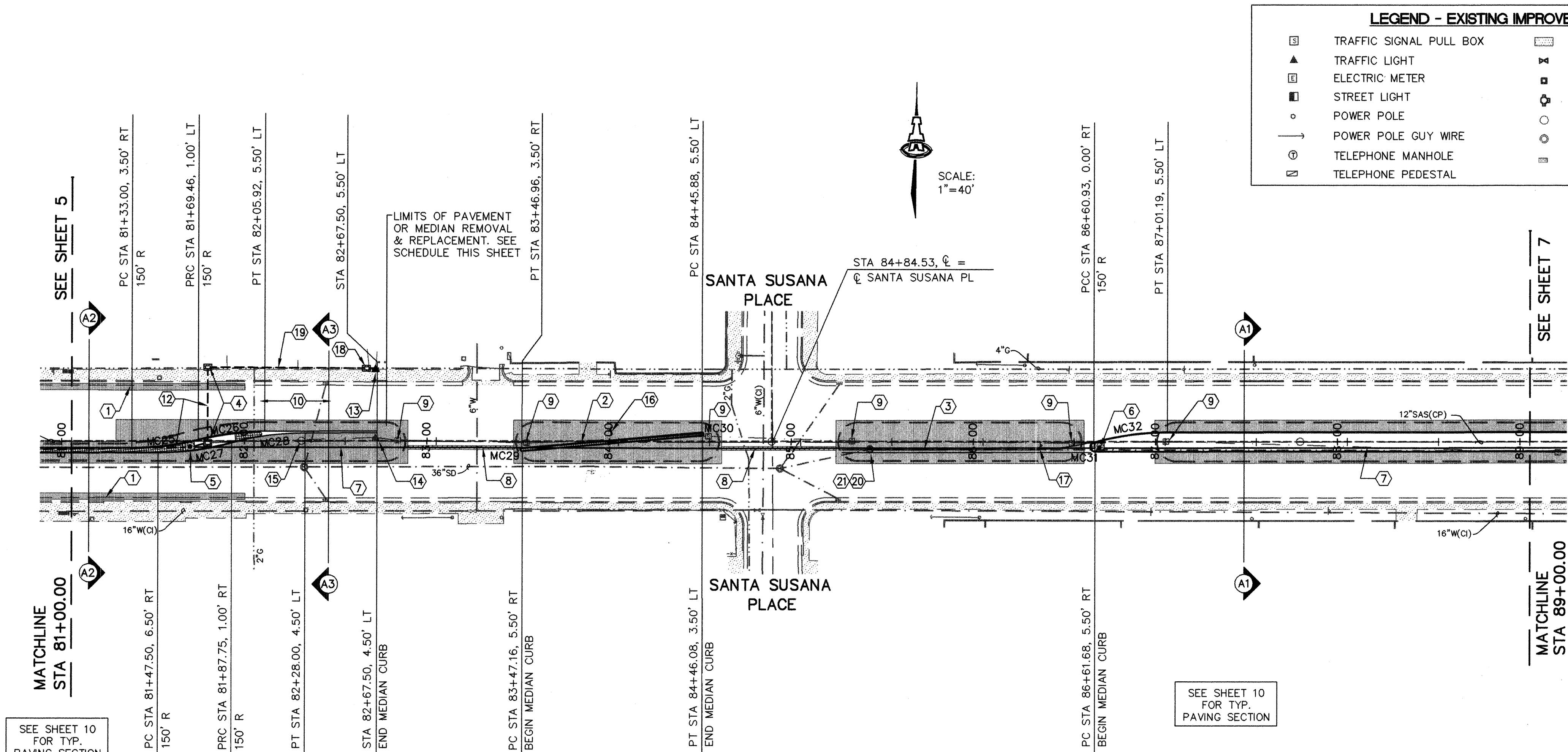
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 73+00.00 TO STA 81+00.00
PAVING PLAN & PROFILE**

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

City Project No. **588292** Zone Map No. **G22** Sheet **5** Of **25**

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STANDARD ACS BRASS TABLE STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	2/99	12/01	1	1	
INSPECTOR	DATE	THE STATE PLANE COORDINATES (NAD 1927)	ALS				
FIELD ENGINEER	DATE	X=415515.66, Y=1500259.11 G-G FACTOR: 0.9996434					
VERIFICATION BY	DATE	ELEVATION = 5536.00 FEET (SLD 1929)					
MICRO-FILM INFORMATION		RECORDED BY		NO.			



LEGEND - EXISTING IMPROVEMENTS

□	TRAFFIC SIGNAL PULL BOX	■	CONCRETE AREA
▲	TRAFFIC LIGHT	⋈	WATER VALVE
■	ELECTRIC METER	⊠	WATER METER
■	STREET LIGHT	⊠	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
—○—	POWER POLE GUY WIRE	○	STORM SEWER MANHOLE
⊠	TELEPHONE MANHOLE	⊠	STORM DRAIN INLET
⊠	TELEPHONE PEDESTAL		

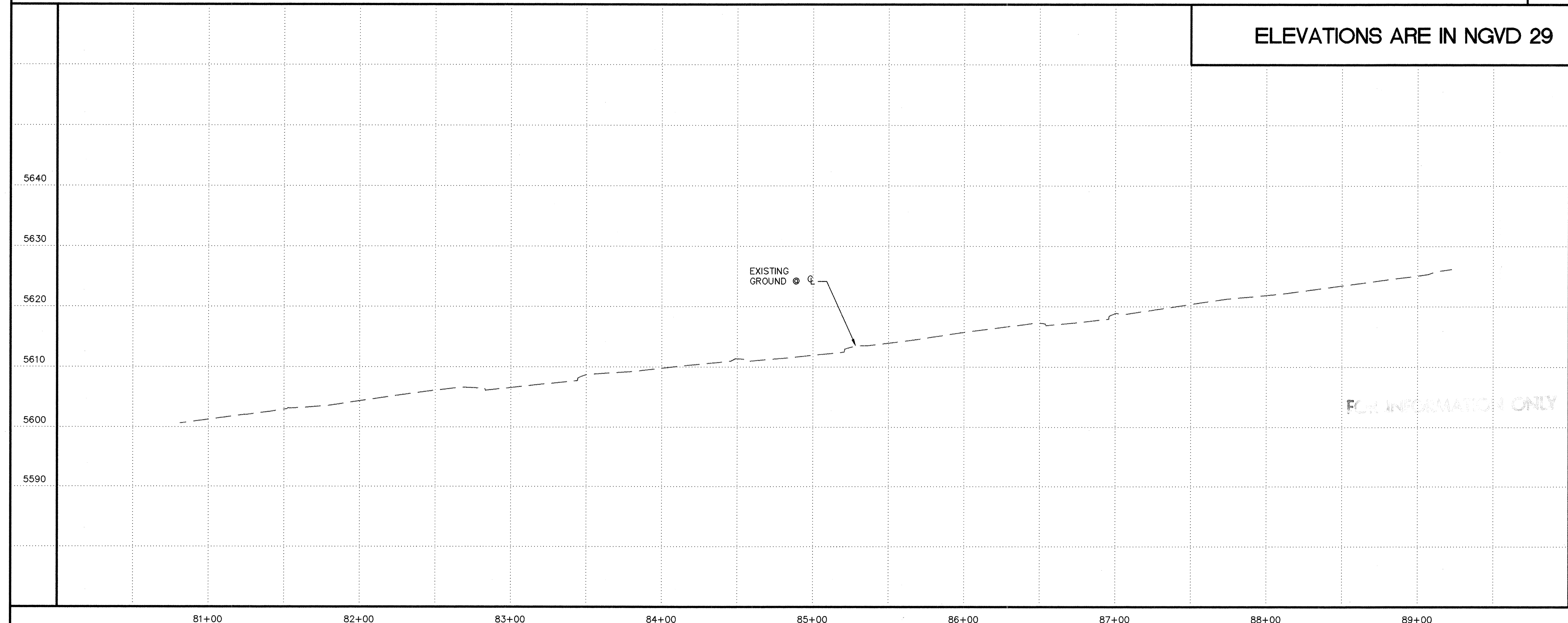
- KEYED CONSTRUCTION NOTES**
- STA 80+10.0 TO 81+95.0, LT & RT, MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT. BUILD 3.5' BIKE LANE PER SECTION A2, SHEET 16.
 - BUILD TAPER MEDIAN, WIDTH= 2' F-F CURBS, W/ 4" THICK PATTERNED MEDIAN CONCRETE.
 - DOUBLE SOLID YELLOW LANE LINES PER TYPICAL DETAIL, SHEET 10.
 - STA 81+75.0, INSTALL STANDARD PULL BOXES PER COA STD DWG #2520.
 - STA 81+65.0, 3.4' RT, INSTALL TYPE I TRAFFIC SIGNAL MANHOLE PER COA STD DWG #2524.
 - STA 86+64.0, 3.4' RT, INSTALL TYPE I TRAFFIC SIGNAL MANHOLE PER COA STD DWG #2524.
 - INSTALL NEW 3" SCHEDULE 40 PVC CONDUIT WITH (6) PAIR COMMUNICATION CABLE 3.4' RT OF CENTERLINE, 24" MIN. BURY FROM STA 81+65 TO STA 89+00. REMOVE & DISPOSE EXISTING CABLE, SEE SHEET 7 FOR CONTINUATION.
 - INSTALL NEW CONDUIT, REMOVE & REPLACE 24" WIDE PAVEMENT SECTION AS NECESSARY PER COA STD DWG #2465, ARTERIAL STREET SECTION.
 - REMOVE & DISPOSE EXISTING TRAFFIC SIGNAL PULL BOX.
 - INSTALL "SCHOOL/XING" MARKINGS PER MUTCD SPECIFICATIONS.
 - STA 80+40, 5.0' RT TO STA 81+65, 3.4' RT, INSTALL NEW 3" SCHEDULE 40 PVC CONDUIT W/ (6) PAIR COMMUNICATION CABLE, W/ 24" MIN. BURY. REMOVE & DISPOSE EXISTING CABLE.
 - INSTALL 2" CONDUIT & CABLE FILL FOR SCHOOL BEACON SERVICE. CONNECT TO PULL BOX, AT STA 80+28.9, REFER TO SHEET 5.
 - BUILD TYPE II MAST ARM FOUNDATION PER COA STD DWG #2526. REMOVE EXISTING SCHOOL BEACON LOCATED AT 82+67 AND RELOCATE TO NEW FOUNDATION.
 - STA 82+67, REMOVE & RELOCATE EXISTING SCHOOL BEACON, SEE NOTE 13.
 - EXISTING SAS MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5605.34. PROPOSED COVER ELEV= 5604.46.
 - REMOVE AND INSTALL NEW "SCHOOL ADVANCE" SIGN.
 - REMOVE AND INSTALL NEW "SPEED LIMIT" SIGN.
 - INSTALL NEW STANDARD PULL BOX PER COA STD DWG #2520.
 - INSTALL 2" CONDUIT & CABLE FILL FOR SCHOOL BEACON SERVICE.
 - EXISTING STORM DRAIN MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5613.67. PROPOSED COVER ELEV= 5612.96.
 - FIELD ADJUST CONDUIT LOCATION TO AVOID EXISTING STORM DRAIN MANHOLE.

SCALES:
1"=40' HOR.
1"=10' VERT.

COMANCHE ROAD

RECORD DRAWING

ELEVATIONS ARE IN NGVD 29



CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
MC25	150.00	36.83	14°04'12"
MC26	150.00	36.83	14°04'12"
MC27	150.00	40.75	15°33'49"
MC28	150.00	40.75	15°33'54"
MC29	1.00	3.14	180°00'00"
MC30	1.00	3.14	180°00'00"
MC31	2.80	8.04	164°26'00"
MC32	150.00	40.76	15°34'03"

PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
80+00	81+24	22'
83+42	84+57	22'
85+19	86+56	22'
86+94	89+00	22'

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street, N.E.
Albuquerque, New Mexico 87102
0172PV6.DWG
08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 81+00.00 TO STA 89+00.00
PAVING PLAN & PROFILE**

Design-Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. 588292	Zone Map No. G21	Sheet 6 Of 25	

AS-BUILT INFORMATION

CONTRACTOR: **Aut**

WORK BY: **Aut**

DATE: **9/03**

ACCEPTANCE BY: **EAR**

DATE: **7/03**

VERIFICATION BY: **EAR**

DATE: **7/03**

DRAWINGS BY: **TPJ**

DATE: **7/03**

CHECKED BY: **TPJ**

DATE: **7/03**

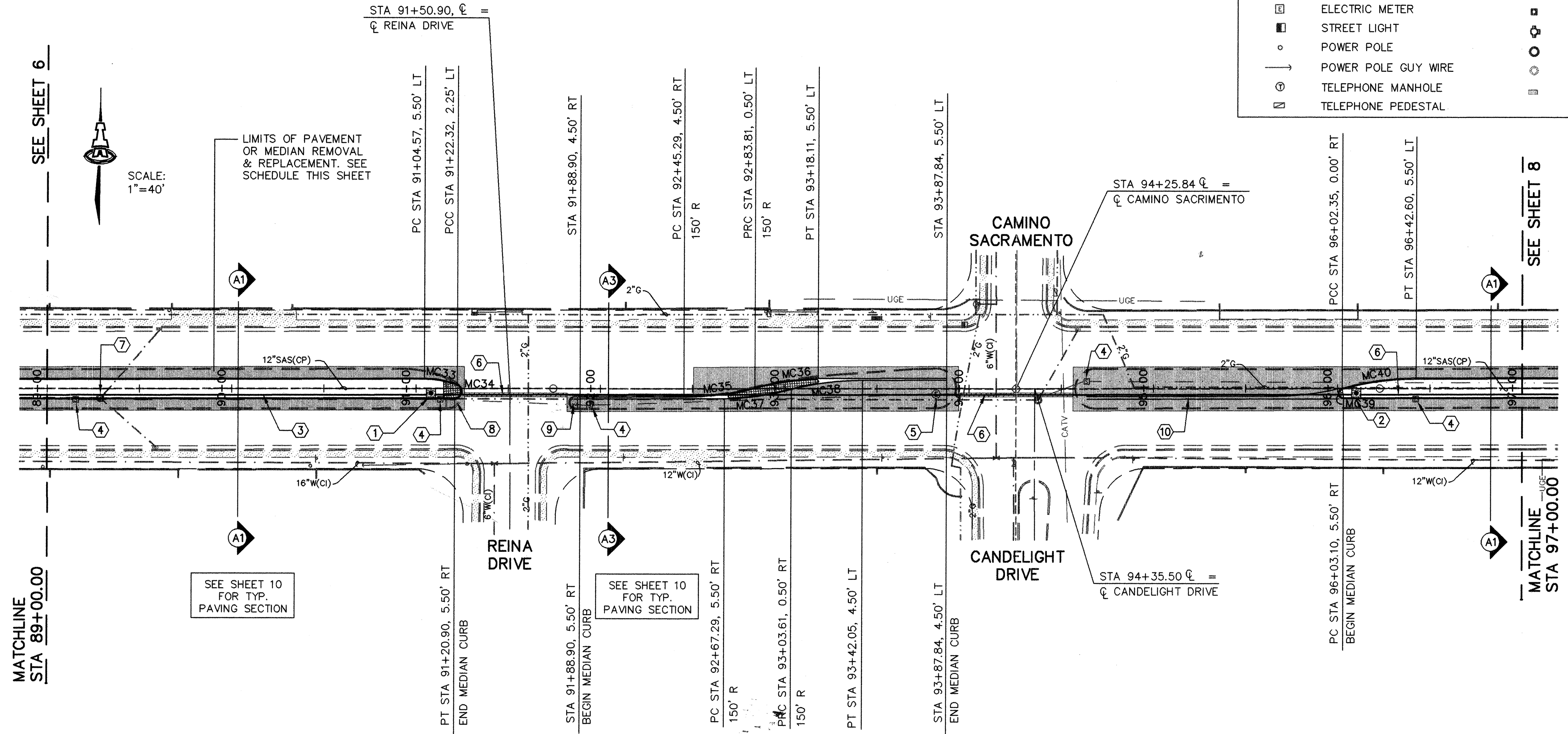
ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
AND LAND SURVEYOR
STATE OF NEW MEXICO
No. 12845
JAMES O. ISAACSON

REVISIONS

NO.	DATE	REVISIONS
1	9/03	Record Drawing

DESIGNED BY: TOI DATE: 12/01
DRAWN BY: RFH DATE: 12/01
CHECKED BY: TOI DATE: 12/01



LEGEND - EXISTING IMPROVEMENTS

□	TRAFFIC SIGNAL PULL BOX	□	CONCRETE AREA
▲	TRAFFIC LIGHT	⋈	WATER VALVE
□	ELECTRIC METER	□	WATER METER
■	STREET LIGHT	□	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
—	POWER POLE GUY WIRE	○	STORM SEWER MANHOLE
⊙	TELEPHONE MANHOLE	⊙	STORM DRAIN INLET
⊞	TELEPHONE PEDESTAL		

- KEYED CONSTRUCTION NOTES**
- STA 91+08.0, 3.4' RT, INSTALL TYPE I TRAFFIC SIGNAL MANHOLE PER COA STD DWG #2524.
 - STA 96+10.0, 3.4' RT, INSTALL TYPE I TRAFFIC SIGNAL MANHOLE PER COA STD DWG #2524.
 - INSTALL NEW 3" SCHEDULE 40 PVC CONDUIT WITH 6 PAIR COMMUNICATIONS CABLE, 3.4' RT OF CENTERLINE, 24" MIN. BURY FROM STA 89+00.0 TO STA 97+00.0, SEE SHEET 8 FOR CONTINUATION.
 - REMOVE & DISPOSE EXISTING PULL BOX. REMOVE & DISPOSE EXISTING COMMUNICATIONS CABLE & CONDUIT, STA 89+00.0 TO 97+00.0.
 - REMOVE & DISPOSE EXISTING TRAFFIC SIGNAL MANHOLE WITH CONCRETE PAD.
 - INSTALL NEW CONDUIT, REMOVE & REPLACE 24" WIDE PAVEMENT SECTION AS NECESSARY PER COA STD DWG #2465, ARTERIAL STREET SECTION.
 - EXISTING STORM DRAIN MANHOLE, CONTRACTOR SHALL FIELD VERIFY LOCATION AND ADJUST FRAME & COVER. PROPOSED COVER ELEV= 5625.65±
 - REMOVE & DISPOSE OF 11.0 SY EXISTING PCC MEDIAN FILL.
 - REMOVE & DISPOSE OF 2.3 SY EXISTING PCC MEDIAN FILL.
 - DOUBLE SOLID YELLOW LANE LINES PER TYPICAL DETAIL, SHEET 10.

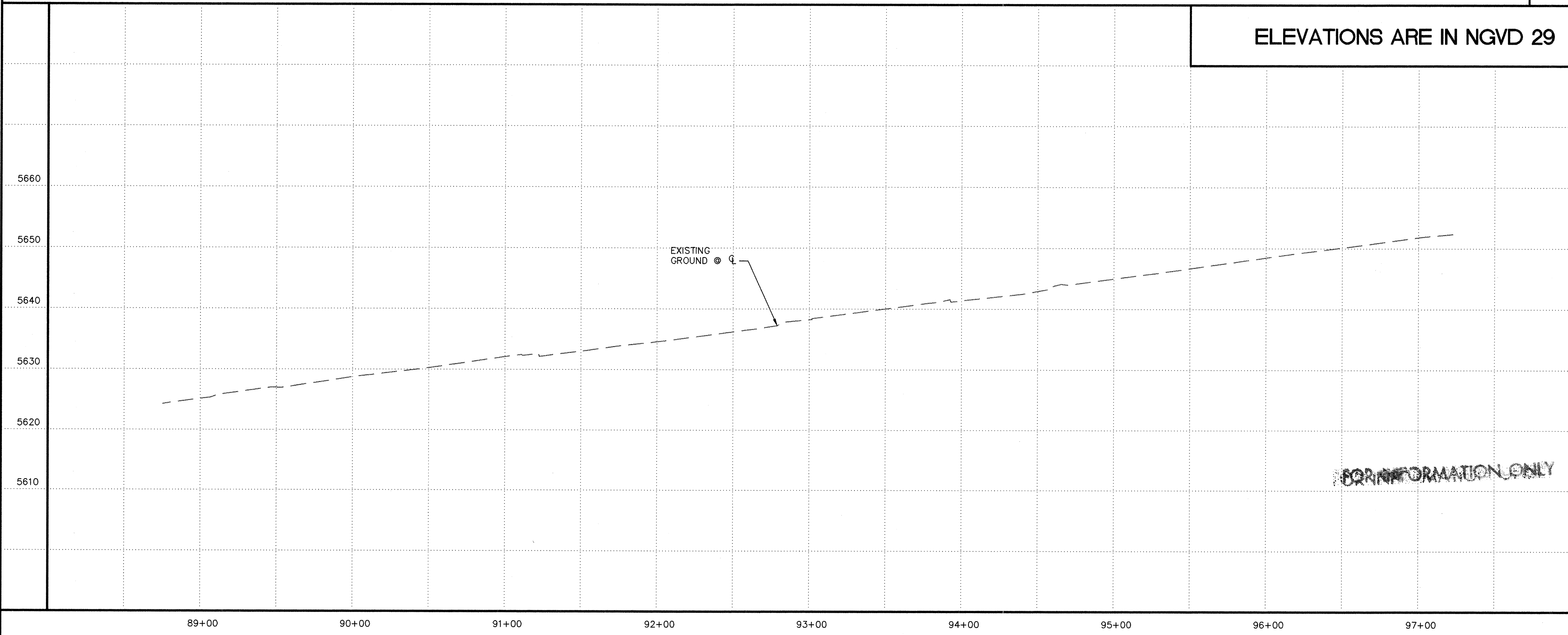
CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
MC33	50.00	18.14	20°47'13"
MC34	4.00	11.12	159°12'45"
MC35	150.00	38.95	14°52'46"
MC36	150.00	34.73	13°16'04"
MC37	150.00	36.75	14°02'18"
MC38	150.00	38.87	14°50'48"
MC39	2.80	8.03	164°24'54"
MC40	150.00	40.75	15°33'55"

SCALES:
1"=40' HOR.
1"=10' VERT.

COMANCHE ROAD

ELEVATIONS ARE IN NGVD 29



PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
89+00	91+27	22'
91+81	92+50	8'
92+50	93+95	22'
94+56	97+00	22'

RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172P.V7.DWG 08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 89+00.00 TO STA 97+00.00
PAVING PLAN & PROFILE**

Design Review Committee: [Signature]
City Engineer Approval: [Signature]

City Project No. **588292** Zone Map No. **G21**

AS-BUILT INFORMATION

CONTRACTOR: **ALC**

WORK STARTED BY: **ALC** DATE: **9/03**

FIELD ACCEPTANCE BY: **EAR** DATE: **7/03**

DESIGNED BY: **EAR** DATE: **7/03**

DRAWN BY: **TOI** DATE: **7/03**

CHECKED BY: **TOI** DATE: **7/03**

REVISIONS

NO.	DATE	REMARKS
1	7/01	Record Drawing

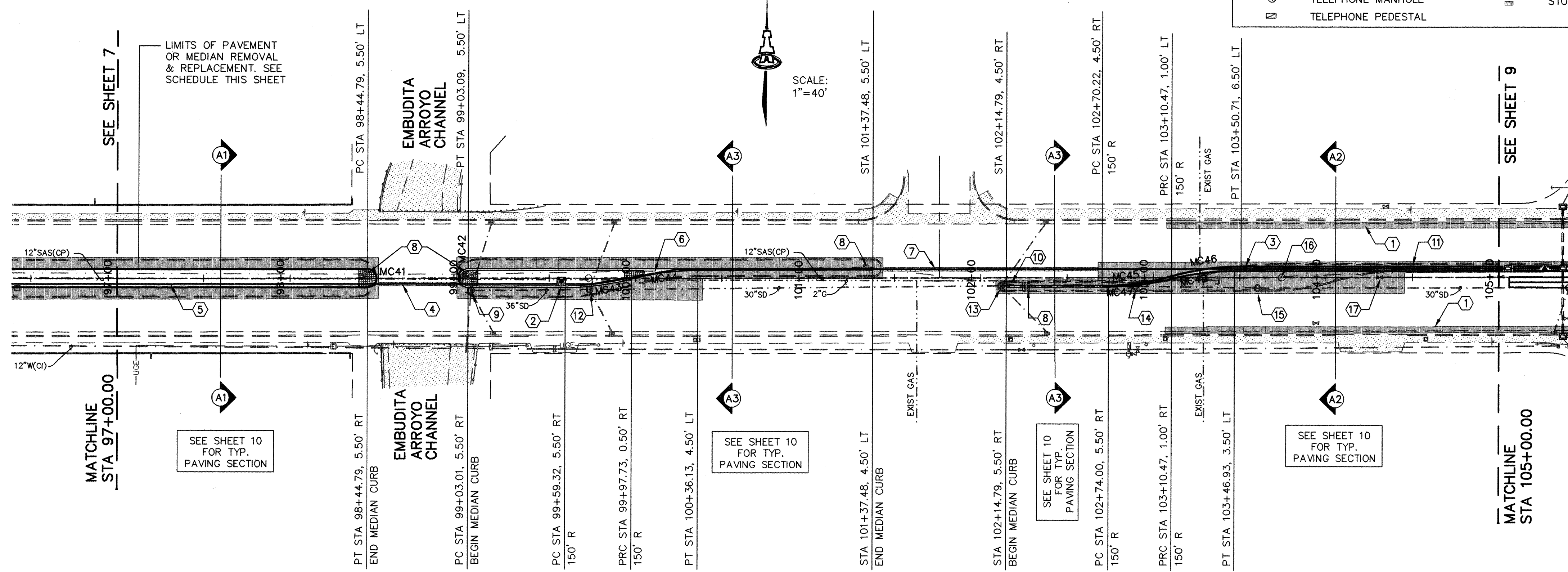
DESIGNED BY: **TOI** DATE: **12/01**

DRAWN BY: **RFH** DATE: **12/01**

CHECKED BY: **TOI** DATE: **12/01**

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
AND LAND SURVEYOR
STATE OF NEW MEXICO
JAMES Q. ISAACSON



LEGEND - EXISTING IMPROVEMENTS			
□	TRAFFIC SIGNAL PULL BOX	□	CONCRETE AREA
▲	TRAFFIC LIGHT	×	WATER VALVE
□	ELECTRIC METER	□	WATER METER
■	STREET LIGHT	□	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
—○—	POWER POLE GUY WIRE	○	STORM SEWER MANHOLE
□	TELEPHONE MANHOLE	□	STORM DRAIN INLET
□	TELEPHONE PEDESTAL		

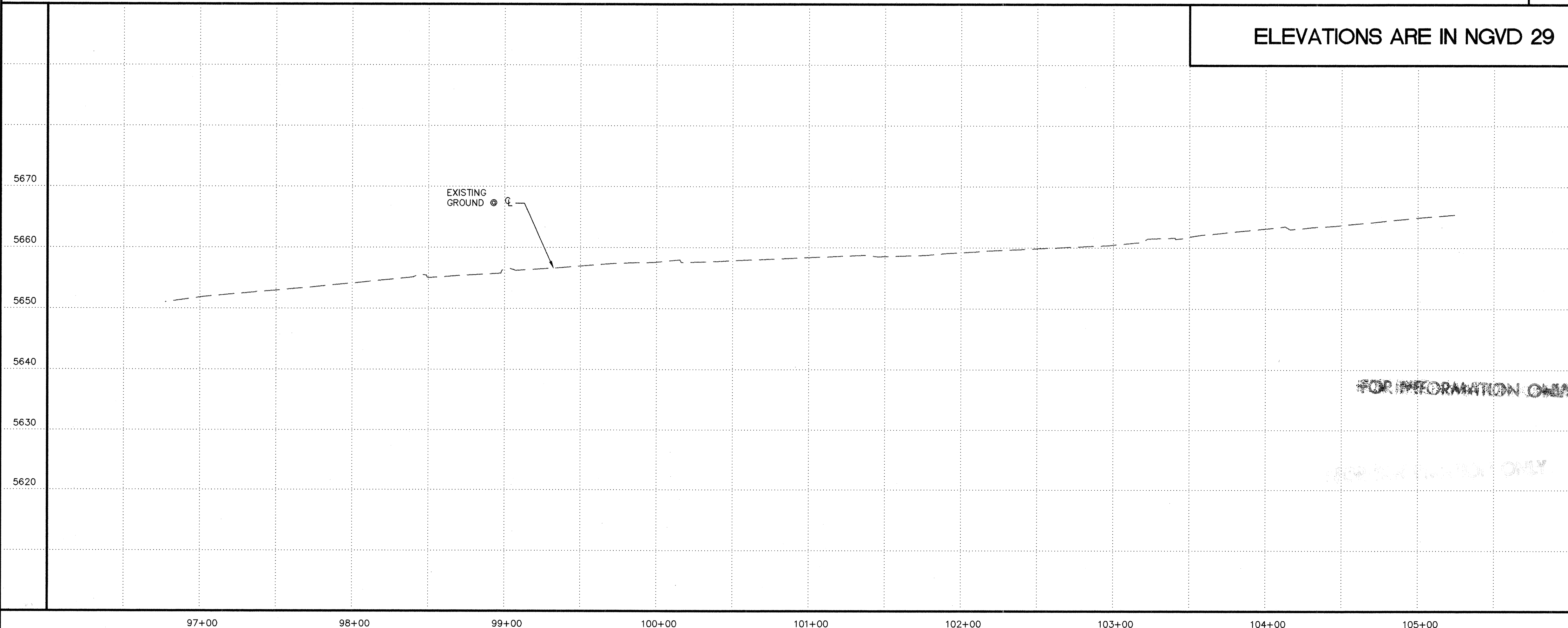
- KEYED CONSTRUCTION NOTES**
- STA 103+07 TO STA 105+00 LT & RT, MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT. PROVIDE 3.5' BIKE LANE PER SECTION, SHEET 10.
 - STA 99+57.0, 3.4' RT, INSTALL TYPE I TRAFFIC SIGNAL MANHOLE PER COA STD DWG #2524.
 - STA 103+53.0, 5.0' LT, INSTALL TYPE II TRAFFIC SIGNAL MANHOLE PER COA STD DWG #2524.
 - INSTALL NEW CONDUIT, REMOVE & REPLACE 24" WIDE PAVEMENT SECTION AS NECESSARY PER COA STD DWG #2465, ARTERIAL STREET SECTION.
 - INSTALL NEW 3" SCHEDULE 40 PVC CONDUIT WITH 6 PAIR COMMUNICATIONS CABLE, 3.4' RT OF CENTERLINE, W/ 24" MIN. BURY.
 - TRANSITION LOCATION OF NEW 3" SCHEDULE 40 PVC CONDUIT WITH 6 PAIR COMMUNICATIONS CABLE, W/ 24" MIN. BURY, FROM STA 97+57.0, 3.4' RT TO STA 100+36.0, 5.0' LT.
 - INSTALL NEW 3" SCHEDULE 40 PVC CONDUIT WITH 6 PAIR COMMUNICATIONS CABLE, 5.0' LT OF CENTERLINE, W/ 24" MIN. BURY, STA 100+36.0 TO NEW PULL BOX STA 105+36.8, SEE SHEET 9 FOR CONTINUATION.
 - REMOVE & DISPOSE EXISTING PULL BOX, REMOVE & DISPOSE EXISTING COMMUNICATIONS CABLE & CONDUIT, STA 97+00.0 TO 105+00.0.
 - EXISTING STORM DRAIN MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5656.40 PROPOSED COVER ELEV= 5655.69
 - REMOVE & DISPOSE OF 6.5 SY EXISTING PCC MEDIAN FILL.
 - REMOVE & DISPOSE OF 38.0 SY EXISTING PCC MEDIAN FILL.
 - EXISTING STORM DRAIN MANHOLE. ADJUST EXISTING FRAME & COVER. PROPOSED COVER ELEV= 5656.56
 - EXISTING STORM DRAIN MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5659.86 PROPOSED COVER ELEV= 5659.42
 - EXISTING STORM DRAIN MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5660.78 PROPOSED COVER ELEV= 5660.23
 - EXISTING STORM DRAIN MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5662.01 PROPOSED COVER ELEV= 5661.44
 - EXISTING SAS MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5662.49 PROPOSED COVER ELEV= 5661.92
 - EXISTING WATERLINE VALVE BOX, PROTECT DURING CONSTRUCTION.

COMANCHE ROAD

RECORD DRAWING

SCALES:
1"=40' HOR.
1"=10' VERT.

ELEVATIONS ARE IN NGVD 29



CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC41	5.50	17.28	180°00'00"
MC42	5.50	17.28	180°00'00"
MC43	150.00	38.84	14°50'06"
MC44	150.00	38.84	14°50'06"
MC45	150.00	40.75	15°33'49"
MC46	150.00	40.75	15°33'49"
MC47	150.00	36.83	14°04'12"
MC48	150.00	36.83	14°04'12"

PAVEMENT REMOVAL/REPLACEMENT SCHEDULE		
FROM	TO	WIDTH
97+00	98+52	22'
98+96	100+38	22'
100+38	101+44	10'
102+08	102+68	6'
102+68	104+45	17'
104+45	105+00	4'

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123 Monroe Street N.E.
Albuquerque, New Mexico 08124
0172PV8.DWG
08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
**COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 97+00.00 TO STA 105+00.00
PAVING PLAN & PROFILE**

Design Review Committee: [Signature]
City Engineer Approval: [Signature]
Last Design Update: [Date]

City Project No. **588292** Zone Map No. **G22**

AS-BUILT INFORMATION

CONTRACTOR	DATE	BY
441	9/03	441
DATE	DATE	DATE
7/03	7/03	7/03
DATE	DATE	DATE
7/03	7/03	7/03
DATE	DATE	DATE
7/03	7/03	7/03

BENCH MARKS

STANDARD ACS BRASS TABLE STAMPED "9-C21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	DATE	BY
12/01	12/01	12/01

SURVEY INFORMATION

1	2/99	2/99	2/99
1	12/01	12/01	12/01

ENGINEER'S SEAL

[Professional Engineer Seal: Isaacson & Arfman, P.A., State of New Mexico, License No. 12345]

REVISIONS

NO.	DATE	REVISIONS
1	9/03	Record Drawing

DESIGNED BY TOI **DATE** 12/01
DRAWN BY RFH **DATE** 12/01
CHECKED BY TOI **DATE** 12/01

Sheet **8** of **25**

GENERAL TRAFFIC CONTROL NOTES:

1. ALL WIRING TO BE CONNECTED PER TRAFFIC SIGNAL FUNCTION CHART, SHEET 11.
2. ALL CONDUIT CROSSING UNDER ROADWAYS & CURBING TO BE INSTALLED BY PUSHING, BORING, OR JACKING, EXCEPT WHERE CONDUIT IS LAID BETWEEN MEDIAN. CONDUIT TO BE SCHEDULE 40 PVC.
3. REMOVE & DISPOSE ALL EXISTING CONDUIT FILL.

GENERAL CONSTRUCTION NOTES:

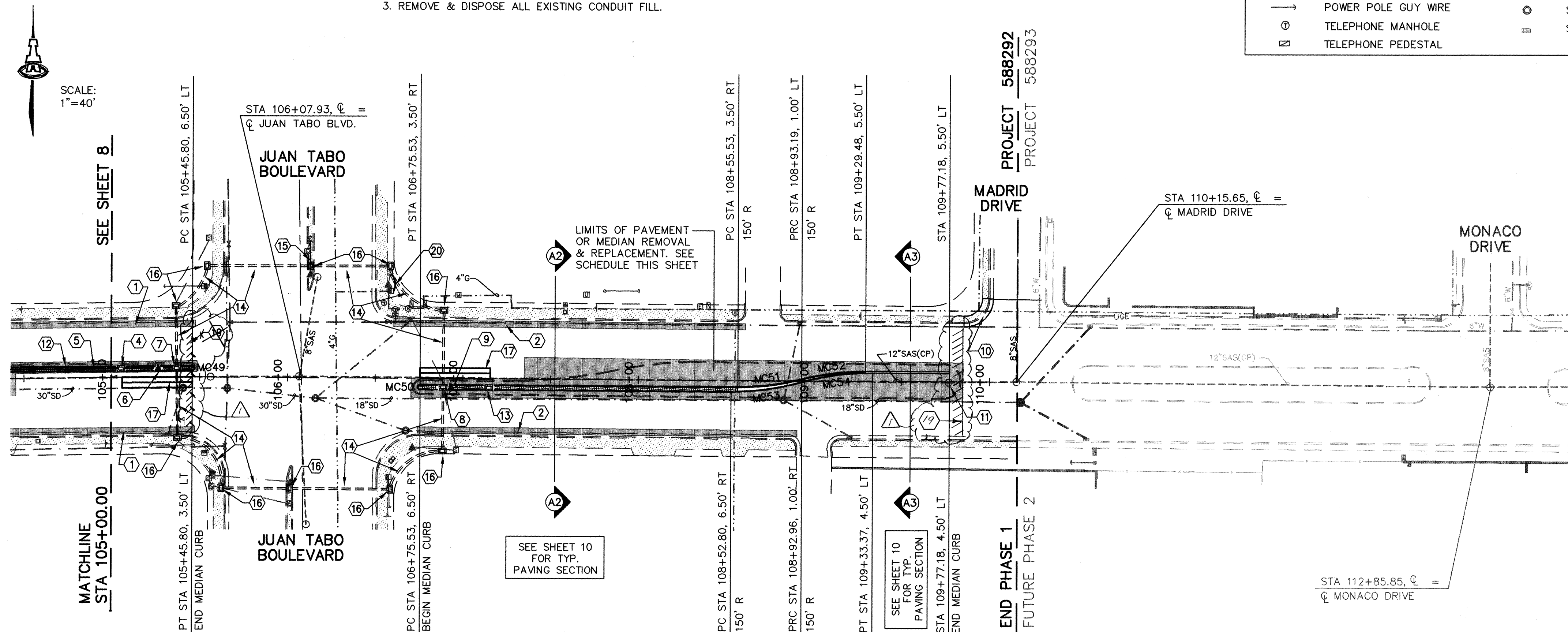
1. WHERE CURB & GUTTER REMOVAL IS REQUIRED, REPLACE CURB & GUTTER PER COA STD DWG #2415.
2. REMOVE SIDEWALK AS REQUIRED FOR TRAFFIC SIGNAL CONDUIT & PULL BOX CONSTRUCTION AND REPLACE SIDEWALKS PER COA STD DWG #2430.

LEGEND - EXISTING IMPROVEMENTS

□	TRAFFIC SIGNAL PULL BOX	■	CONCRETE AREA
▲	TRAFFIC LIGHT	⋈	WATER VALVE
□	ELECTRIC METER	□	WATER METER
■	STREET LIGHT	⊕	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
→	POWER POLE GUY WIRE	○	STORM SEWER MANHOLE
⊕	TELEPHONE MANHOLE	■	STORM DRAIN INLET
⊕	TELEPHONE PEDESTAL		

KEYED CONSTRUCTION NOTES

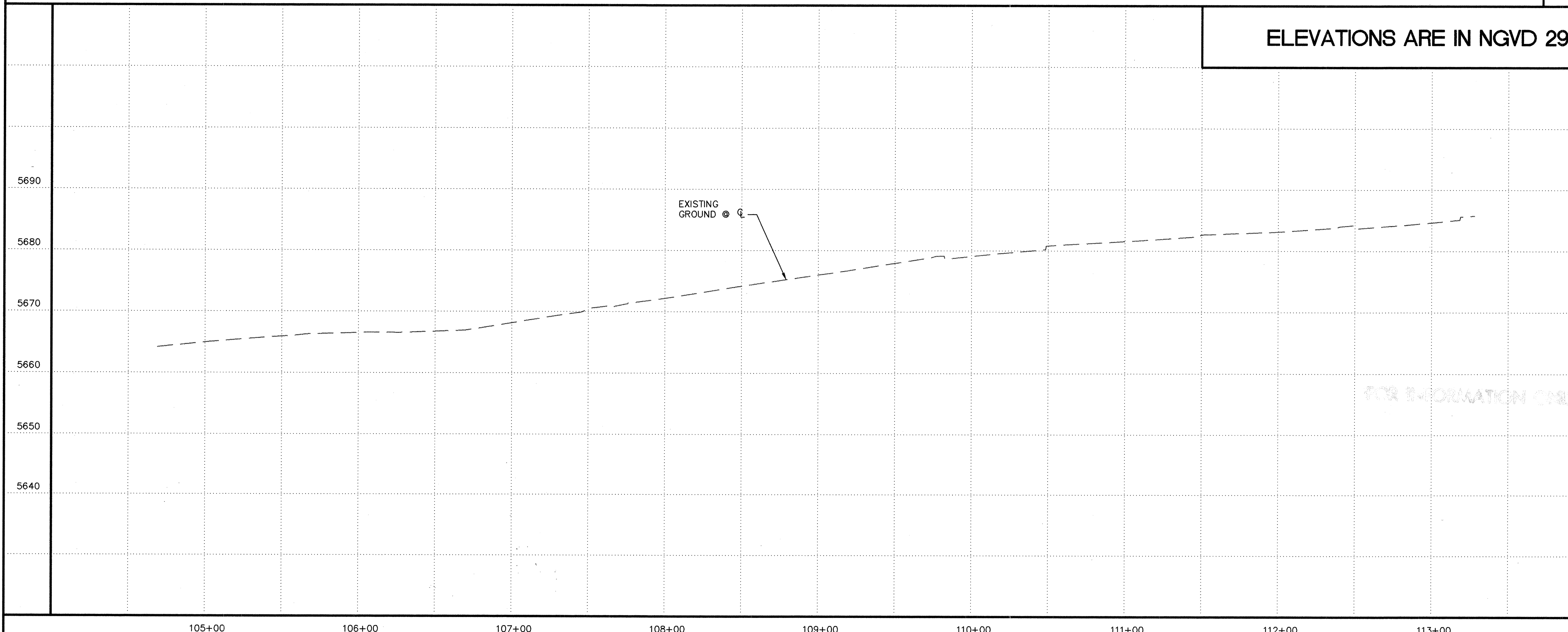
1. STA 105+00.0 TO STA 105+47.0 LT & RT, CONTINUE TO MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT. PROVIDE 3.5' BIKE LANE PER SECTION, SHEET 10.
2. STA 106+60.0 TO STA 108+61.0 LT & STA 106+74.0 TO STA 108+90.0 RT, BEGIN TO MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT. PROVIDE 3.5' BIKE LANE PER SECTION, SHEET 10.
3. DELETED THIS PROJECT.
4. STA. 105+05.2, 5.8' LT, REMOVE & DISPOSE EXISTING PULL BOX. INSTALL NEW LARGE PULL BOX AT STA. 105+05.2, 5.0' LT.
5. INSTALL NEW 3" SCHEDULE 40 PVC CONDUIT W/ 6 PAIR COMMUNICATIONS CABLE 5.0' LT OF CENTERLINE FROM STA. 105+00.0 TO NEW LARGE PULL BOX AT STA. 105+05.2. REMOVE EXISTING COMMUNICATIONS CABLE AND REPLACE WITH NEW COMMUNICATIONS CABLE FROM NEW LARGE PULL BOX THRU PULL BOX EAST OF TRAFFIC SIGNAL TO EXISTING SPLICING CABINET AT SOUTHWEST CORNER OF STREET INTERSECTION.
6. STA 105+26.5, 5.8' LT, REMOVE EXISTING TRAFFIC SIGNAL & RELOCATE TO 105+26.5, 5.0' LT. REMOVE & DISPOSE EXISTING PEDESTAL FOUNDATION & BUILD NEW PEDESTAL FOUNDATION PER STD DWG 2525. TOP OF FOUNDATION ELEV= 5666.14
7. REMOVE EXISTING PULL BOX STA 105+36.8, 3.8' LT, & RELOCATE TO STA 105+36.8, 5.0' RT.
8. STA. 106+88.7, 3.8' RT, REMOVE & DISPOSE EXISTING PULL BOX. INSTALL NEW LARGE PULL BOX AT STA. 106+88.7, 5.0' RT, SEE DETAILS SHEET 12.
9. EXISTING TRAFFIC SIGNAL TO REMAIN.
10. DELETED THIS PROJECT.
11. EXISTING SAS MANHOLE. ADJUST EXISTING FRAME & COVER. EXISTING COVER ELEV= 5679.09 PROPOSED COVER ELEV= 5678.34
12. REMOVE & DISPOSE OF 38 SY EXISTING PCC MEDIAN FILL.
13. STA. 107+14.7, 5.8' RT, REMOVE & DISPOSE EXISTING PULL BOX. INSTALL NEW STANDARD PULL BOX AT STA. 107+14.7, 5.0' RT. PER COA STD DWG #2520.
14. INSTALL NEW 1 ea - 3" & 1 ea - 2" CONDUITS W/ (2)-#20 MCC & (1)-#5 MCC AND ALL NECESSARY SINGLE CONDUCTORS & DETECTOR CABLES.
15. INSTALL NEW 3" CONDUIT & FILL BETWEEN PULL BOX & TRAFFIC SIGNAL, TYPICAL AT ALL TRAFFIC SIGNALS.
16. INSTALL NEW LARGE PULL BOX, SEE DETAILS SHEET 12.
17. BUILD NEW 6'x40' QUADRUPLE LOOP DETECTOR AND CONNECT TO NEW PULL BOX. SEE LOOP DETECTOR DETAILS SHEET 12.
18. DELETED THIS PROJECT.
19. END PLANT MIX SEAL COAT - Revised Location
20. INSTALL NEW METERED ELECTRICAL SERVICE.



SCALES:
1"=40' HOR.
1"=10' VERT.

COMANCHE ROAD

ELEVATIONS ARE IN NGVD 29



RECORD DRAWING

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC49	1.51	5.14	194°45'35"
MC50	1.50	4.71	180°00'00"
MC51	150.00	36.81	14°03'31"
MC52	150.00	36.79	14°03'05"
MC53	150.00	40.80	15°34'58"
MC54	150.00	40.77	15°34'16"

PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
105+00	105+48	4'
106+70	107+35	9'
107+35	109+85	20'
110+45	112+53	20'

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172PV9.DWG/rh 08/23/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 105+00.00 TO STA 110+15.00
PAVING PLAN & PROFILE**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. 588292	Zone Map No. G22	Sheet 9	Of 25

AS-BUILT INFORMATION

CONTRACTOR: **445**

DATE: **9/03**

INSPECTOR: **445**

DATE: **9/03**

FIELD VERIFICATION BY: **445**

DATE: **9/03**

CORRECTED BY: **445**

DATE: **9/03**

MICRO-FILM INFORMATION

RECORDED BY: **445**

DATE: **9/03**

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
AND LAND SURVEYOR
STATE OF NEW MEXICO
NO. 10000
J. Q. ISAACSON

REVISIONS

DESIGN

DESIGNED BY: **TOI**

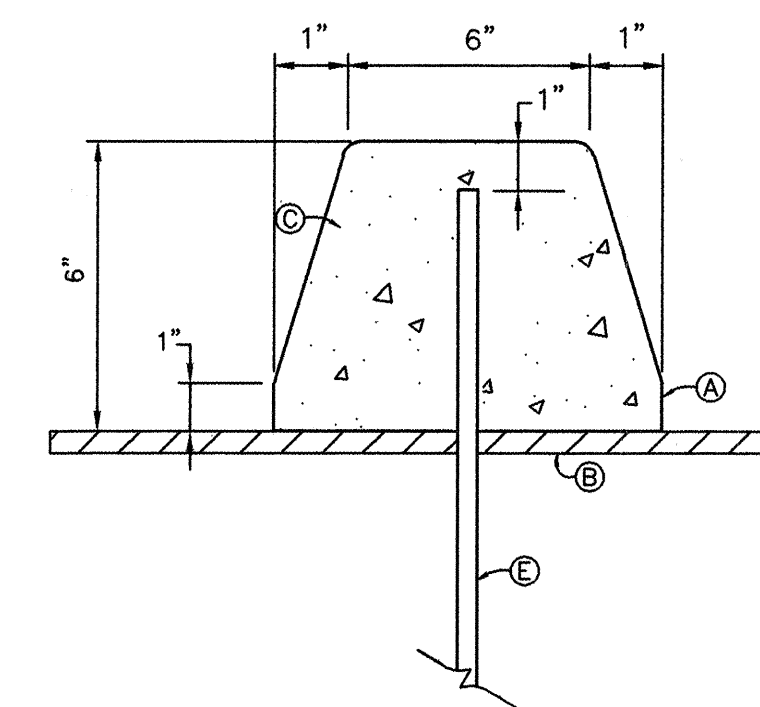
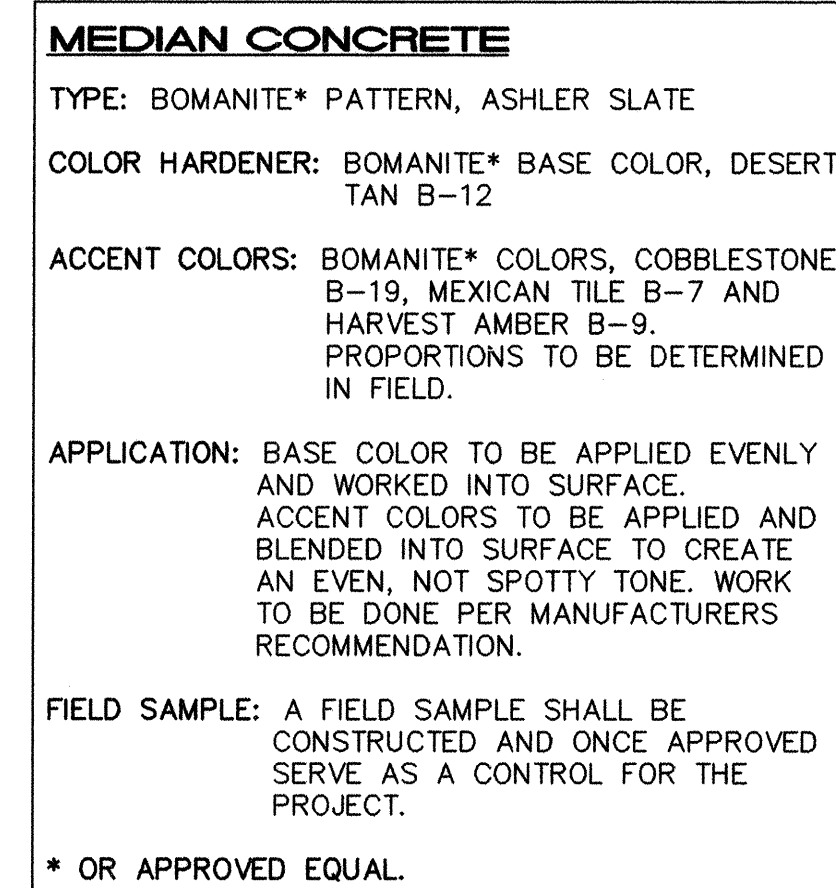
DATE: **12/01**

DRAWN BY: **RPH**

DATE: **12/01**

CHECKED BY: **TOI**

DATE: **12/01**



- A. SEAL SURFACES WITH TROWEL PRIOR TO CURING
- B. CSS I BITUMELS ON ASPHALTIC PAVEMENT (PROBOND 820 SERIES OR APPROVED EQUAL).
- C. EXTRUDED CONCRETE CURB PER COA STANDARD SPEC. 101 & 340 WITH FOLLOWING EXCEPTIONS:
 - 1.5 % PER CY OF POLYPROPYLENE, COLLATED FIBRILLATED FIBERS (FIBER MESH OR APPROVED EQUAL)
 - NON-CHLORIDE RETARDER PER MANUFACTURER'S RECOMMENDATION
- D. CONSTRUCTION JOINTS SHALL BE INSTALLED EVERY 15 LINEAL FEET.
- E. NO. 4 REBAR PINS x 23" LONG DRIVEN 18" INTO PAVEMENT & SUBGRADE. DRILL HOLES IN PAVEMENT & SUBGRADE IF NECESSARY TO DRIVE PINS TO DEPTH AND SEAL WITH EPOXY. PLACE PINS AT 2 FOOT CENTERS AT THE LOCATION SHOWN ON TYPICAL MEDIAN DETAILS.

66' F/F

1' 3.5' 11' 11' 10' 3' 11' 11' 3.5' 1'

BIKE LANE

* 4" DASHED WHITE STRIPE

4" SOLID WHITE STRIPE

4" SOLID WHITE STRIPE

4" THICK PATTERNED MEDIAN CONC

6" EXTRUDED CONC. CURBS

EXIST. ASPHALT CURB, TYP

4" DASHED WHITE STRIPE *

4" SOLID WHITE STRIPE

2" DEEPx3.5' WIDE MILLED SLOT, REPAVE W/ TYPE B ASPHALT CONCRETE & PMSC TYP. BOTH SIDES

EXIST. SIDEWALK, 3.5' TYP.

EXIST. STD CURB & GUTTER

1' MILLED GUTTER PAN

2.5'

VARIES

EXISTING PAVING W/ NEW PLANT MIX SEAL COAT

1.5'± SAWCUT, REMOVE & DISPOSE

VARIES

NEW PAVING—SEE SECTION THIS SHEET

1.5'± SAWCUT, REMOVE & DISPOSE

VARIES

EXISTING PAVING W/ NEW PLANT MIX SEAL COAT

2.5'

1' MILLED GUTTER PAN

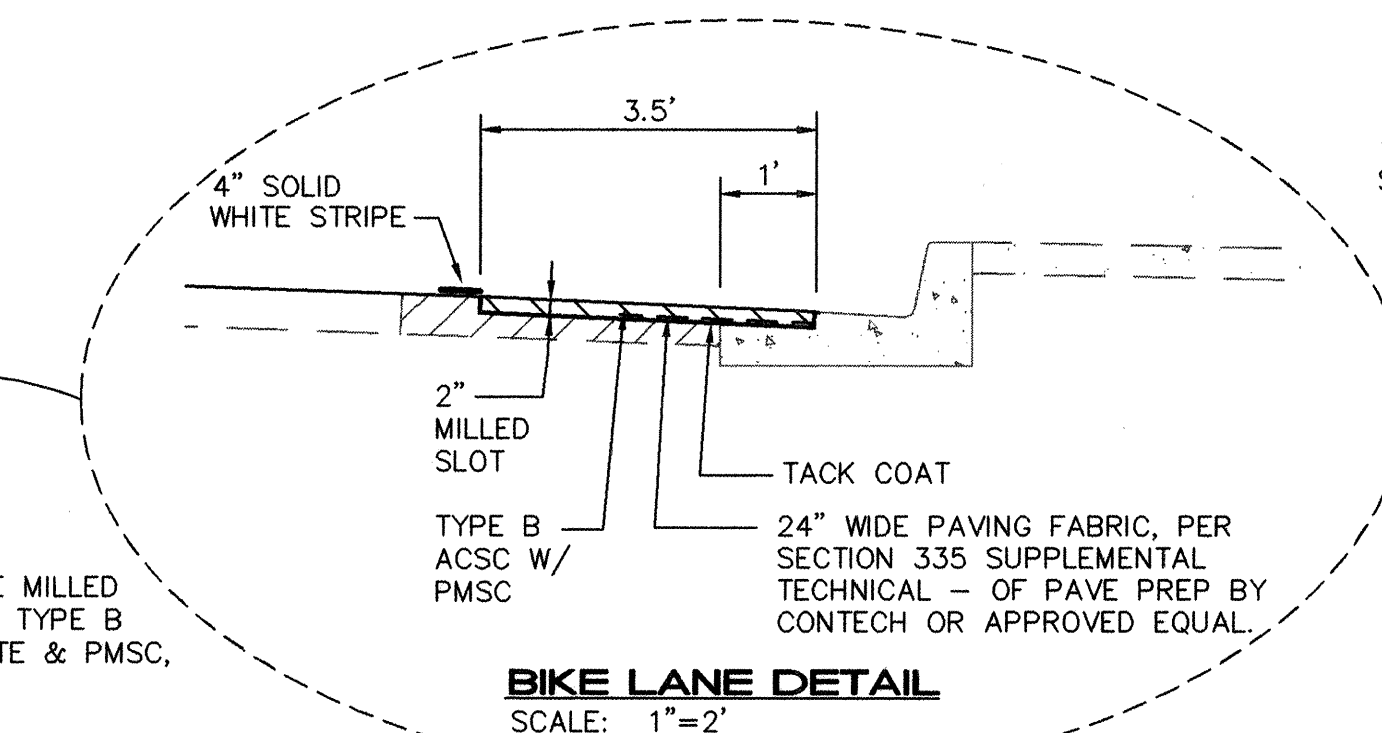
MILLED ASPHALT W/ 2" TYPE B ACSC & PMSC

NOTE: SEE LANDSCAPED MEDIAN SECTION FOR TYPICAL PAVEMENT MARKINGS.

EXIST. SIDEWALK, 3.5' TYP.

EXIST. STD CURB & GUTTER

MILLED ASPHALT W/ 2" TYPE B ACSC & PMSC



335 SUPPLEMENTAL
L - OF PAVE PREP BY
OR APPROVED EQUAL

12"

1 1/2" 9" 1 1/2"

6"

5'

6'

LOW STRIPE,
M F/C
(SIDES)

3 EA. TRAFFIC REFLECTORS @ 6' O.C. BEGINNING AT MEDIAN NOSE. ANCHOR W/ EPOXY ADHESIVE.

PAINT MEDIAN CURB YELLOW

NOTE: KEYED NOTES FOR 6" MEDIAN CURB ALSO APPLY TO THIS DETAIL.

SAWCUT ASPHALT PAVEMENT AT BOTH SIDES. - INCIDENTAL WORK, NO EXTRA PAYMENT.

2 EA NO.4 REBAR PINS x 23" LONG @ 2' CENTERS.

The plan view shows a 66-foot wide street layout. The layout is symmetrical about a central 24-foot wide section. The total width is 66' F/F. The layout includes:

- North Side:**
 - 2' wide sidewalk.
 - 3.5' wide bike lane.
 - 11' wide section with 4" dashed white stripe.
 - 11' wide section with 4" solid white stripe.
 - 11' wide section with 4" solid yellow stripe.
 - 11' wide section with 12" extruded conc. curb.
 - 11' wide section with 4" solid yellow stripe.
 - 11' wide section with 4" dashed white stripe.
 - 3.5' wide bike lane.
 - 2' wide sidewalk.
- South Side:**
 - 2' wide sidewalk.
 - 3.5' wide bike lane.
 - 11' wide section with 4" dashed white stripe.
 - 11' wide section with 4" solid white stripe.
 - 11' wide section with 4" solid yellow stripe.
 - 11' wide section with 12" extruded conc. curb.
 - 11' wide section with 4" solid yellow stripe.
 - 11' wide section with 4" dashed white stripe.
 - 3.5' wide bike lane.
 - 2' wide sidewalk.
- Central Section:**
 - 24' wide section for new paving.
 - 19'± wide section for existing paving w/ new plant mix seal coat.
 - 1.5'± wide section for sawcut, remove & dispose.
- Other Features:**
 - EXIST. STD CURB & GUTTER.
 - EXIST. SIDEWALK, 3.5' TYP.
 - EXIST. ASPHALT CURB.
 - EXIST. PAVING, 3.5' TYP.

NOTE: * 10' STRIPE W/ 30' GAP, TYP.

6" MEDIAN CURBS

10.1' CURB TRANSITION W/ PINS @ 2' CENTERS

TURN LANE MEDIAN CURB

4" PATTERNED MEDIAN CONCRETE

6" MEDIAN CURBS

5' F/F

4" PATTERNED MEDIAN CONCRETE

150' R

2' F/F

150' R

10' 50' R

20.34'

4.0' R

PAINT MEDIAN NOSE YELLOW

TYPICAL MEDIAN WITH CURBED TURN LANE

SCALE: 1"=10'

6" MEDIAN CURBS TO HAVE PINS @ 2' CENTERS AT PATTERNED MEDIAN CONCRETE

Diagram illustrating a typical median with a striped turn lane. The diagram shows a cross-section of a road median with various lane widths and markings.

Key features and dimensions:

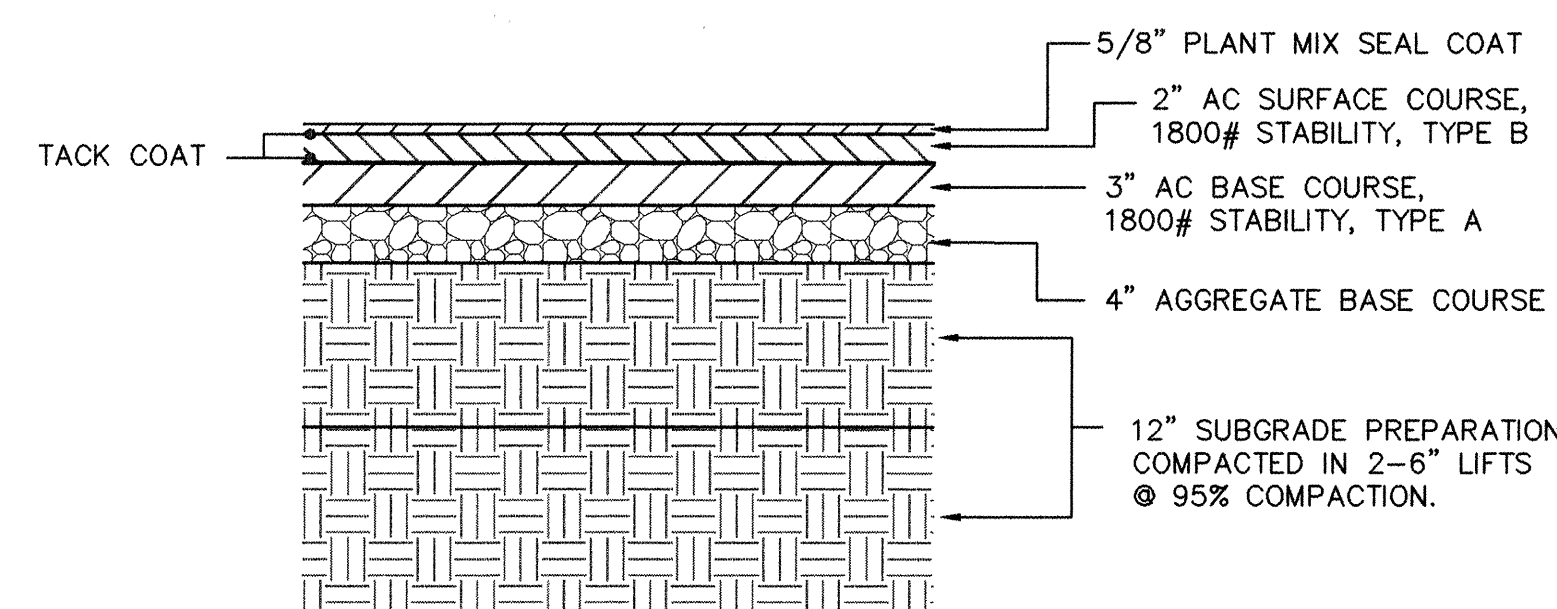
- 11' F/F Median
- 12' C-C Lane Lines
- Extruded Conc. Curbs
- Solid Yellow Lane Stripes
- 2.80'R nose radius
- 150' R transition curve
- 150' R lane width
- PAINT MEDIAN NOSE YELLOW
- EXTRUDED CONCRETE CURBS TO HAVE PINS 2' CENTERS OPPOSITE PATTERNED MEDIAN CONCRETE
- (2) 4" SOLID YELLOW LANE STRIPES
- SEE STRIPE DETAIL BELOW
- 9" C-C STRIPES

TYPICAL MEDIAN WITH STRIPED TURN LANE

SCALE: 1"=10'

STRIPE DETAIL
NO SCALE

FOR INFORMATION ONLY
RECORD DRAWING



PAVEMENT SECTION
NO. SCALE

[illegible]

TRAFFIC SIGNAL FUNCTION CHART - 115 VOLT CIRCUIT						
CONDUCTOR			RING 1 - MULTI CONDUCTOR CABLE 20		RING 2 - MULTI CONDUCTOR CABLE 20	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	---	SPARE	SPARE	SPARE	SPARE
2	WHITE	---	SPARE	SPARE	SPARE	SPARE
3	RED	---	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	---	PHASE 1 GREEN	GREEN LEFT TURN ARROW 4B, 4C	PHASE 5 GREEN	GREEN LEFT TURN ARROW 2B, 2C
5	ORANGE	---	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 4B, 4C	PHASE 5 YELLOW	YELLOW LEFT TURN ARROW 2B, 2C
6	BLUE	---	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2A, 2M1, 2M2	PHASE 6 RED	RED BALL 4A, 4M1, 4M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2A, 2M1, 2M2	PHASE 6 GREEN	GREEN BALL 4A, 4M1, 4M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2A, 2M1, 2M2	PHASE 6 YELLOW	YELLOW BALL 4A, 4M1, 4M2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P4, P5	PHASE 6 WALK	PEDESTRIAN WALK P1, P8
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P4, P5	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P1, P8
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	GREEN LEFT TURN ARROW 3B, 3C	PHASE 7 GREEN	GREEN LEFT TURN ARROW 1B, 1C
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW LEFT TURN ARROW 3B, 3C	PHASE 7 YELLOW	YELLOW LEFT TURN ARROW 1B, 1C
16	BLACK	RED	PHASE 4 RED	RED BALL 1A, 1B, 1C, 1M	PHASE 8 RED	RED BALL 3A, 3B, 3C, 3M
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 1A, 1B, 1C, 1M	PHASE 8 GREEN	GREEN BALL 3A, 3B, 3C, 3M
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 1A, 1B, 1C, 1M	PHASE 8 YELLOW	YELLOW BALL 3A, 3B, 3C, 3M
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P2, P3	PHASE 8 WALK	PEDESTRIAN WALK P6, P7
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P2, P3	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P6, P7

- NOTES:
- IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".
 - WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE BOX AND LOCATED 6" BACK FROM THE END.

TRAFFIC SIGNAL NOTES:

- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
- LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S 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 COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES: SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8000) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
- 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 THE LOCAL POWER COMPANY ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 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, APPROVED 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.
- EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
- EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
- CONTRACTOR SHALL COIL EXCESS INTERCONNECT CABLE AT ALL NEW OR EXISTING TRAFFIC MANHOLES BETWEEN SPLICE CABINET OR CONTROL CABINETS WITH SPLICE BARS. IF MORE THAN ONE MANHOLE EXISTS BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS, THEN COILING IS ONLY REQUIRED AT ONE OF THE MANHOLES. FIFTY FEET OF COMMUNICATION CABLE SHALL BE COILED.
- THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING, IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

INCIDENTAL ITEMS:

- LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
- HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
- REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE TRAFFIC ENGINEERING OPERATIONS YARD.
- LEAN FILL FOR CONDUIT TRENCHES.
- OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
- COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.

FOR INFORMATION ONLY

FOR INFORMATION ONLY

RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172MDTL2.DWG/rh 08/02/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
SPECIAL WHEELCHAIR RAMP, SIDEWALK CULVERT DETAILS,
TRAFFIC SIGNAL NOTES & FUNCTION CHART

Design Review Committee

City Engineer Approval

Ms./day/yr.

Ms./day/yr.

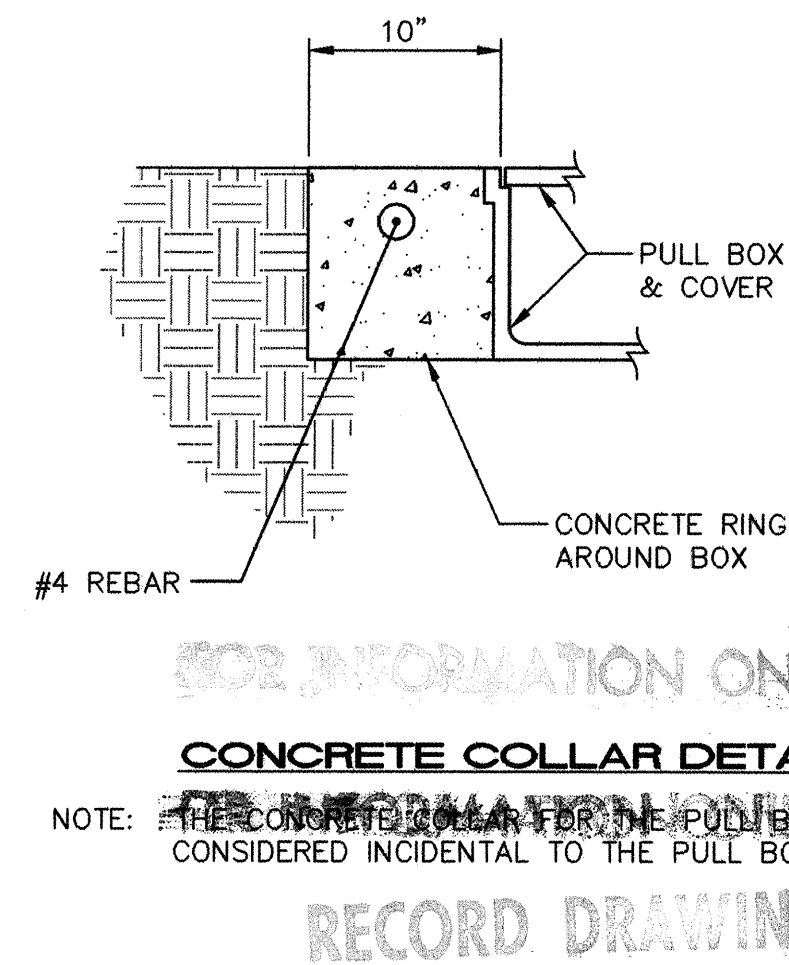
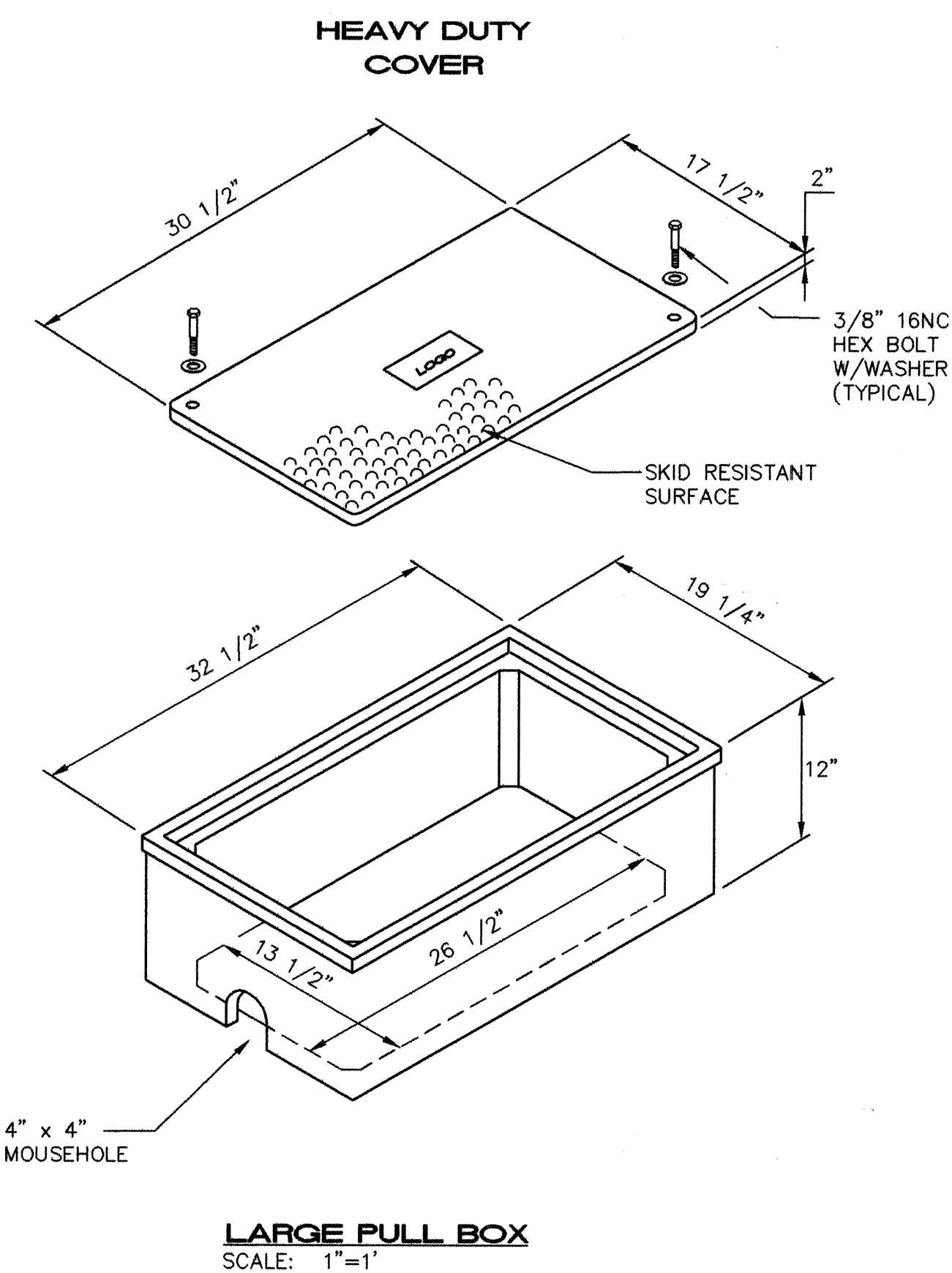
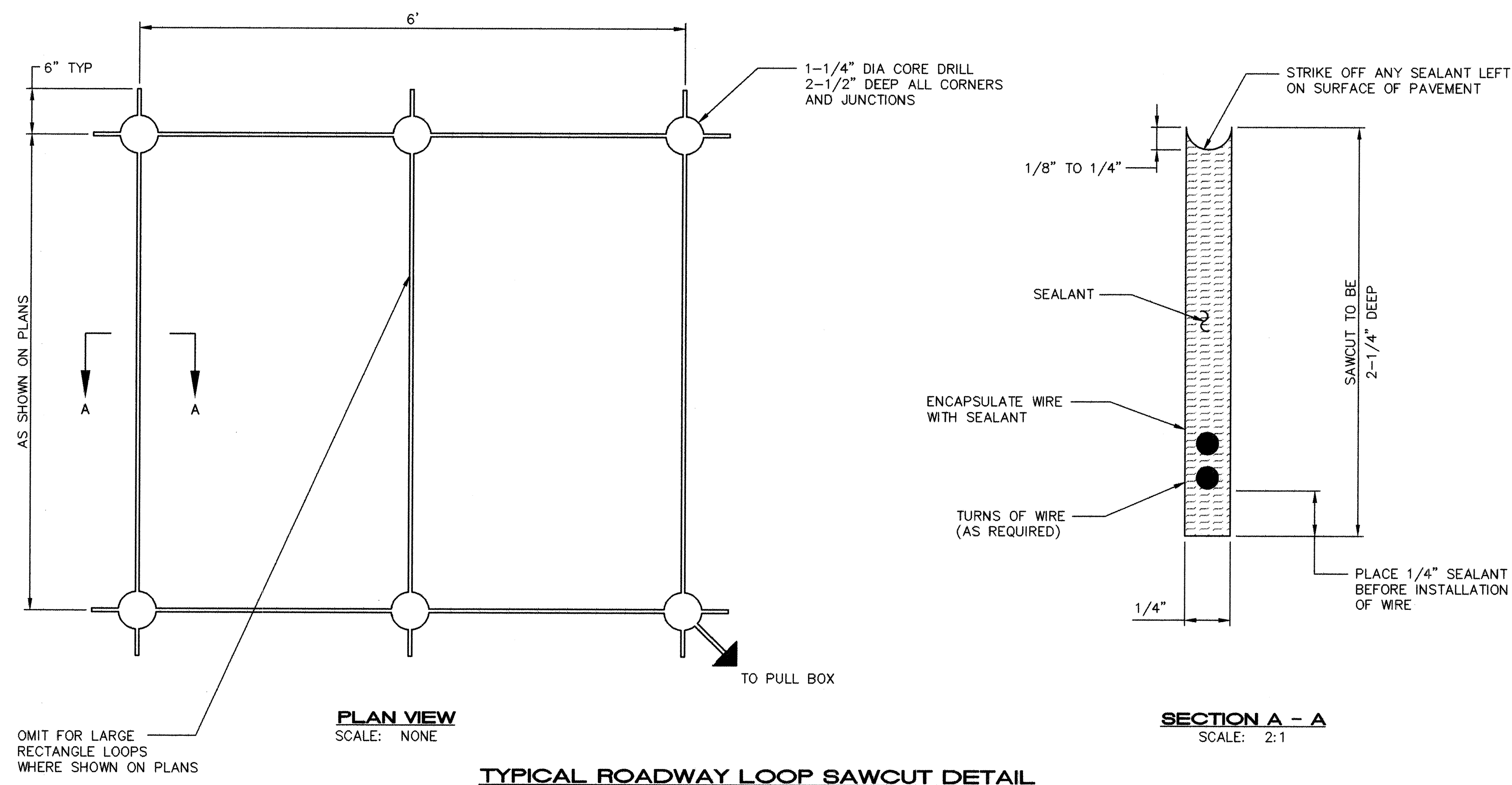
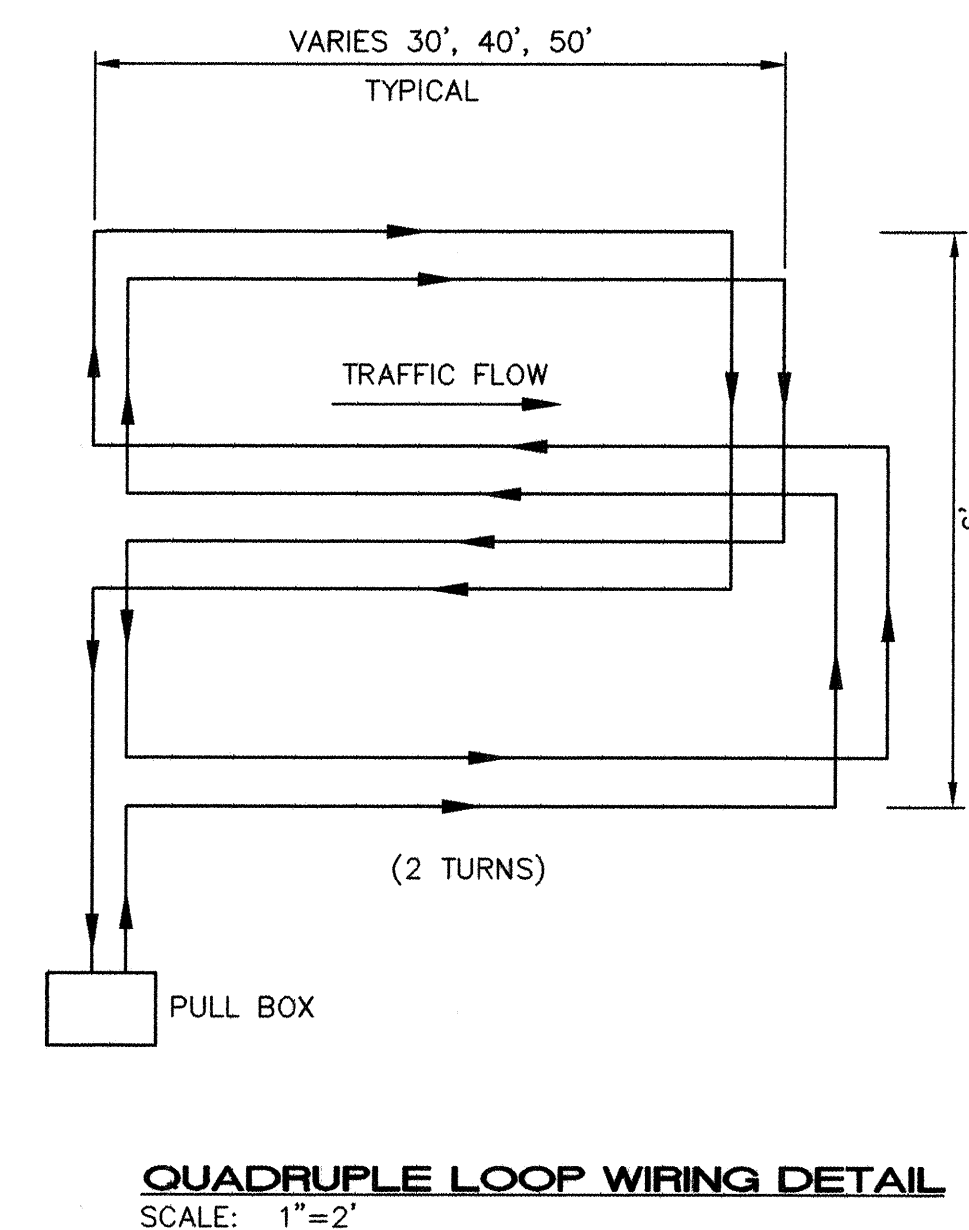
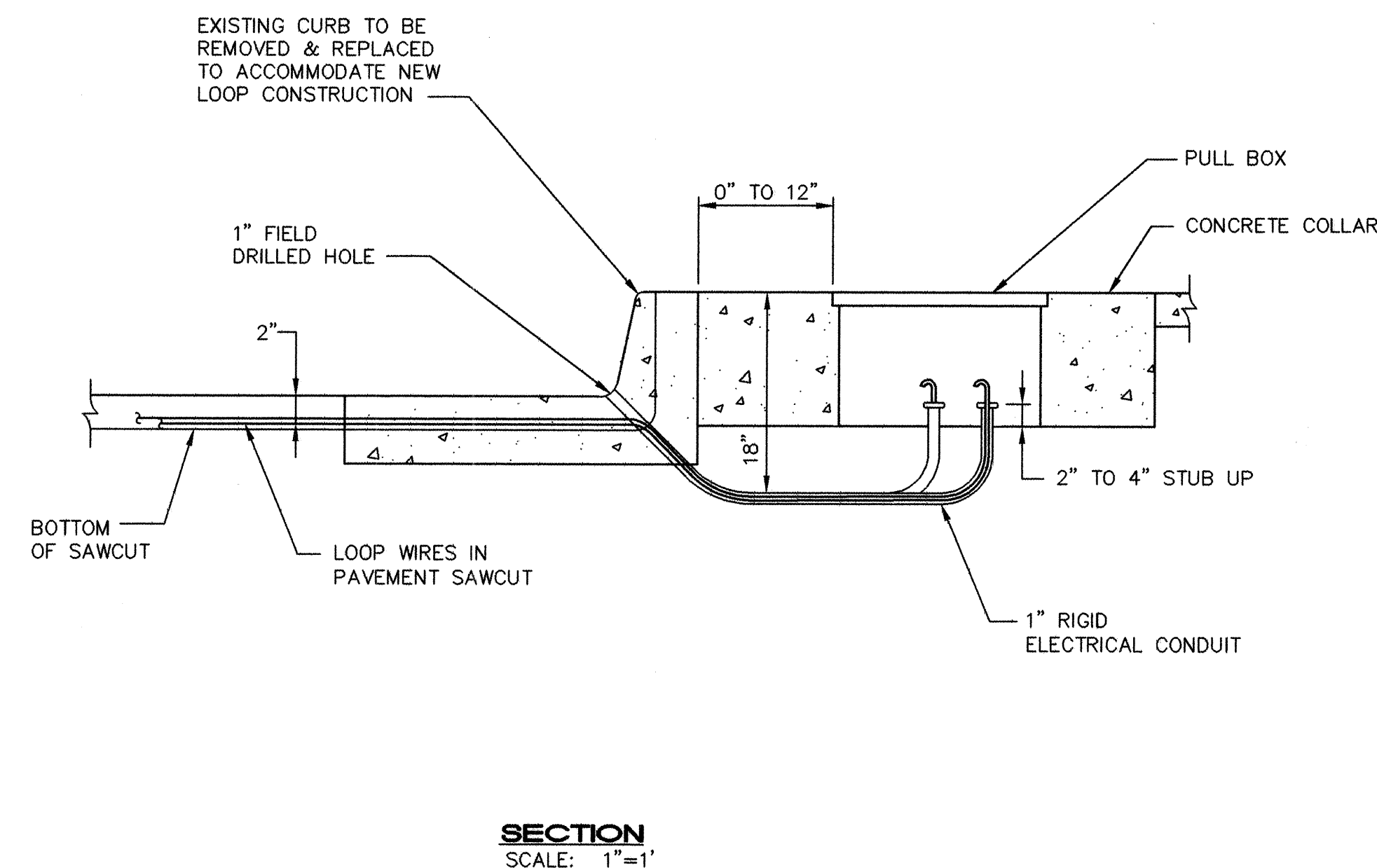
DESIGN REVIEW COMMITTEE

CITY ENGINEER

Lost Design Update

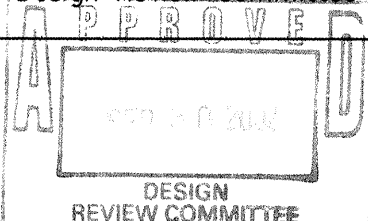
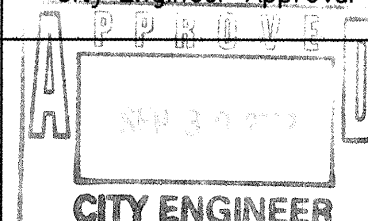
City Project No. 588292 Zone Map No. G22 Sheet 11 Of 25

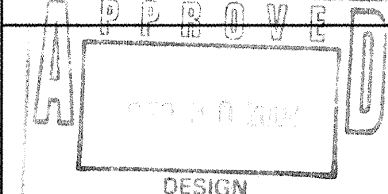
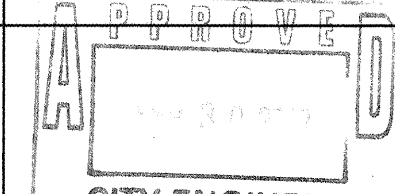
AS-BUILT INFORMATION	CONTRACTOR	4UL	STANDARD ACS BRASS TABLET STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE. NM STATE PLANE COORDINATES (NAD 1927) X=415515.66, Y=1500259.11 G-G FACTOR: 0.9996434 ELEVATION = 5536.00 FEET (SLD 1929)	DATE	9/03
BENCH MARKS	INSPECTOR'S	4UL	DATE	9/03	
	FIELD	4UL	DATE	9/03	
	VERIFICATION	4UL	DATE	9/03	
	CORRECTED	4UL	DATE	9/03	
SURVEY INFORMATION	FIELD NOTES	2/99	12/01	1	1
	SURV-TEK, INC.	ALS			
ENGINEER'S SEAL	REGISTERED PROFESSIONAL ENGINEER	ISAACSON	384	384	384
	AND LAND SURVEYOR	ISAACSON	384	384	384
REVISIONS	NO.	DATE	REMARKS	BY	TOI
	1	9/03	Record Drawing	TOI	TOI
DESIGNED BY	TOI	DATE	01/02	DRAWN BY	RFH
	TOI	DATE	01/02		
CHECKED BY	TOI	DATE	01/02	TOI	DATE
	TOI	DATE	01/02		



1. ALL LOOP DETECTOR WIRE SHALL BE #14 AGW STRANDED COPPER WIRE WITH CROSS LINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF IMSA SPECIFICATIONS #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 SAWCUT CORNERS TO HOLD THE WIRE). A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFTCO SHALL BE AN ACCEPTABLE SEALANT ALTERNATE.
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY LOOP AND 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.

1. MATERIAL TO BE AGGREGATE CONSISTING OF SAND AND GRAVEL BOND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH – 1,700 PSI, FLEXURAL STRENGTH – 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.

 ISAACSON & ARFMAN, P.A. <i>Consulting Engineering Associates</i> 128 Monroe Street N.E. Albuquerque New Mexico 0172MDTL3.DWG:rfh 08/02/02	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	9/23
					NO.
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING LOOP DETECTOR & LARGE PULL BOX DETAILS					
<u>Design Review Committee</u> 	<u>City Engineer Approval</u> 	Lost Design Update	Mo./Day/Yr.	Mo./Day/Yr.	
City Project No. 588292	Zone Map No. G22		Sheet 12 Of 25		

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP															
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING TYPICAL TRAFFIC STRIPING & MARKING PLANS															
Design Review Committee 	City Engineer Approval 	Last Design Update	<table border="1"> <thead> <tr> <th>Mo./Day/Yr.</th> <th>Mo./Day/Yr.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Mo./Day/Yr.	Mo./Day/Yr.										
Mo./Day/Yr.	Mo./Day/Yr.														
City Project No. 588292	Zone Map No. G22	Sheet 13 Of 25													

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

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

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

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

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

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

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

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

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

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

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

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

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

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

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:

- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
- SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

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

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

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

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

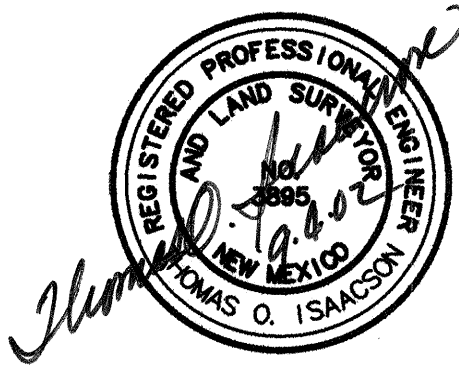
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

SPECIAL PROJECT TRAFFIC CONTROL NOTES

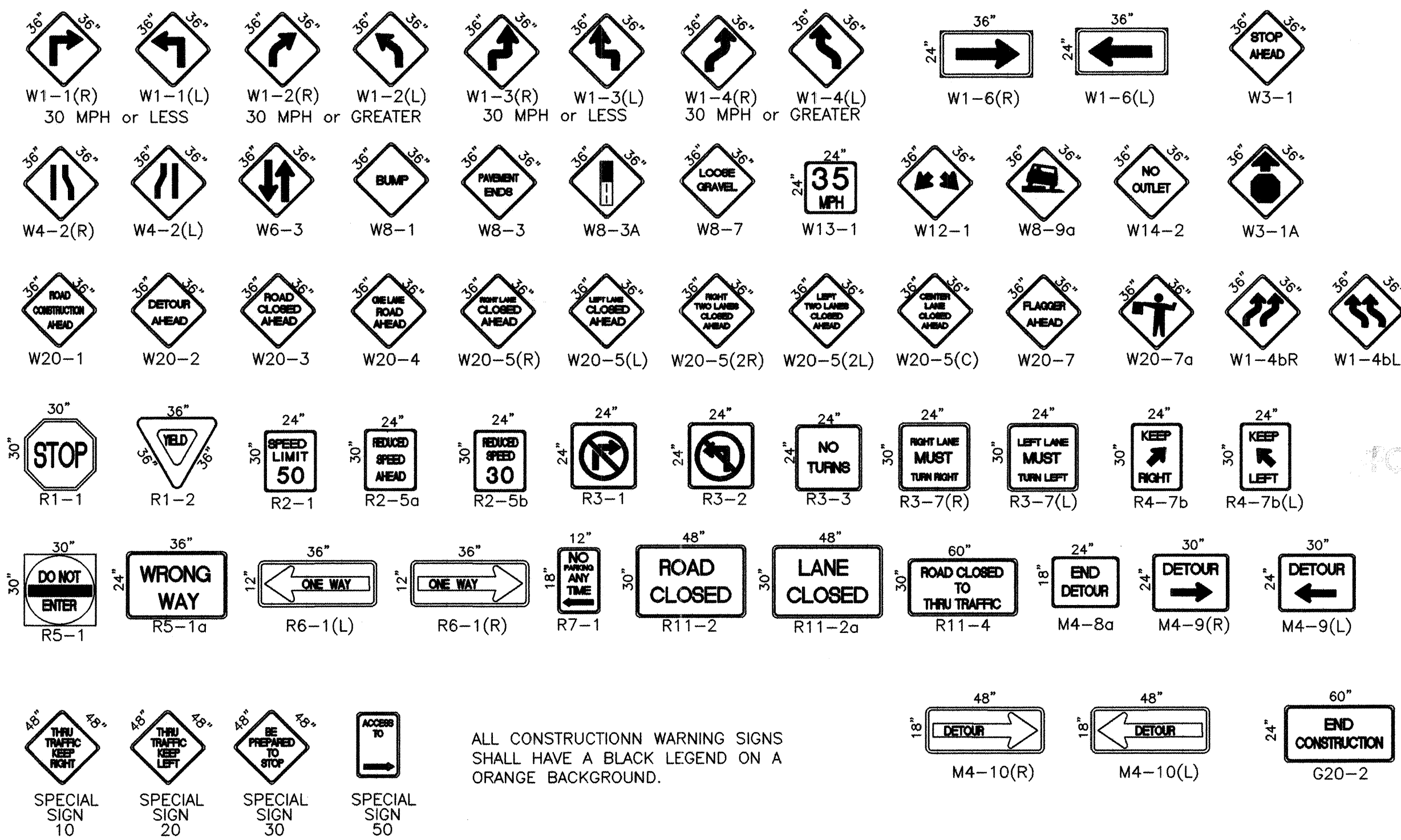
1. CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE LANE IN EACH DIRECTION ON COMANCHE ROAD AT ALL TIMES. NO TRAFFIC SPILTS SHALL BE ALLOWED.

2. CONTRACTOR MUST ATTEMPT TO MAINTAIN TWO LANES OPEN TO TRAFFIC ON WESTBOUND COMANCHE ROAD BETWEEN THE HOURS FROM 6:00 A.M. TO 9:00 A.M., MONDAY THROUGH FRIDAY; AND MUST ATTEMPT TO MAINTAIN TWO LANES OPEN ON EASTBOUND COMANCHE ROAD BETWEEN THE HOURS FROM 4:00 P.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY. IF THE CONTRACTOR IS NOT ABLE TO MAINTAIN TWO LANES OPEN DURING THESE TIMEFRAMES, THE CONTRACTOR MUST WORK A MINIMUM OF TWELVE HOUR DAYS (7:00 A.M. TO 7:00 P.M.), MONDAY THROUGH SATURDAYS.

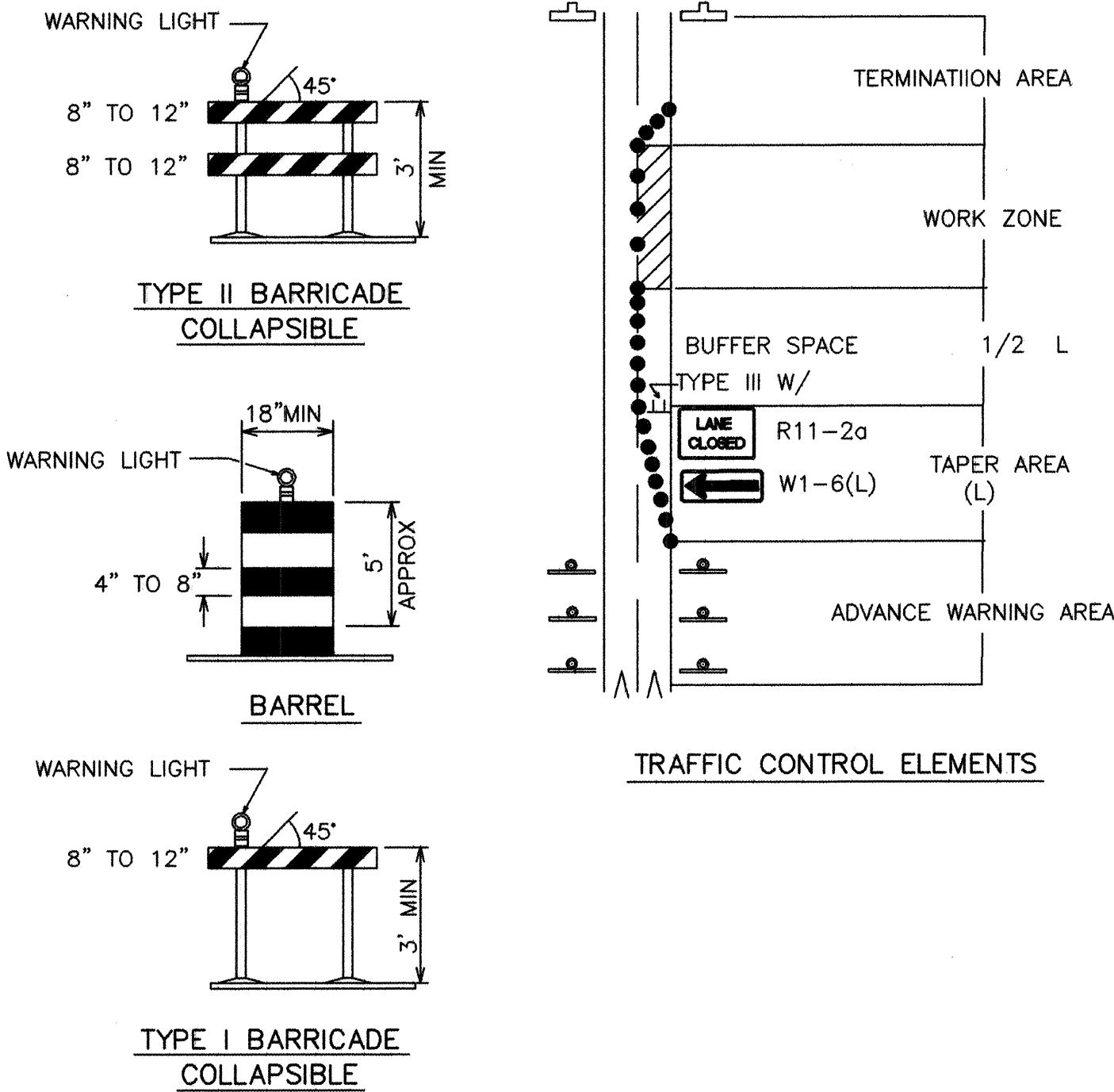
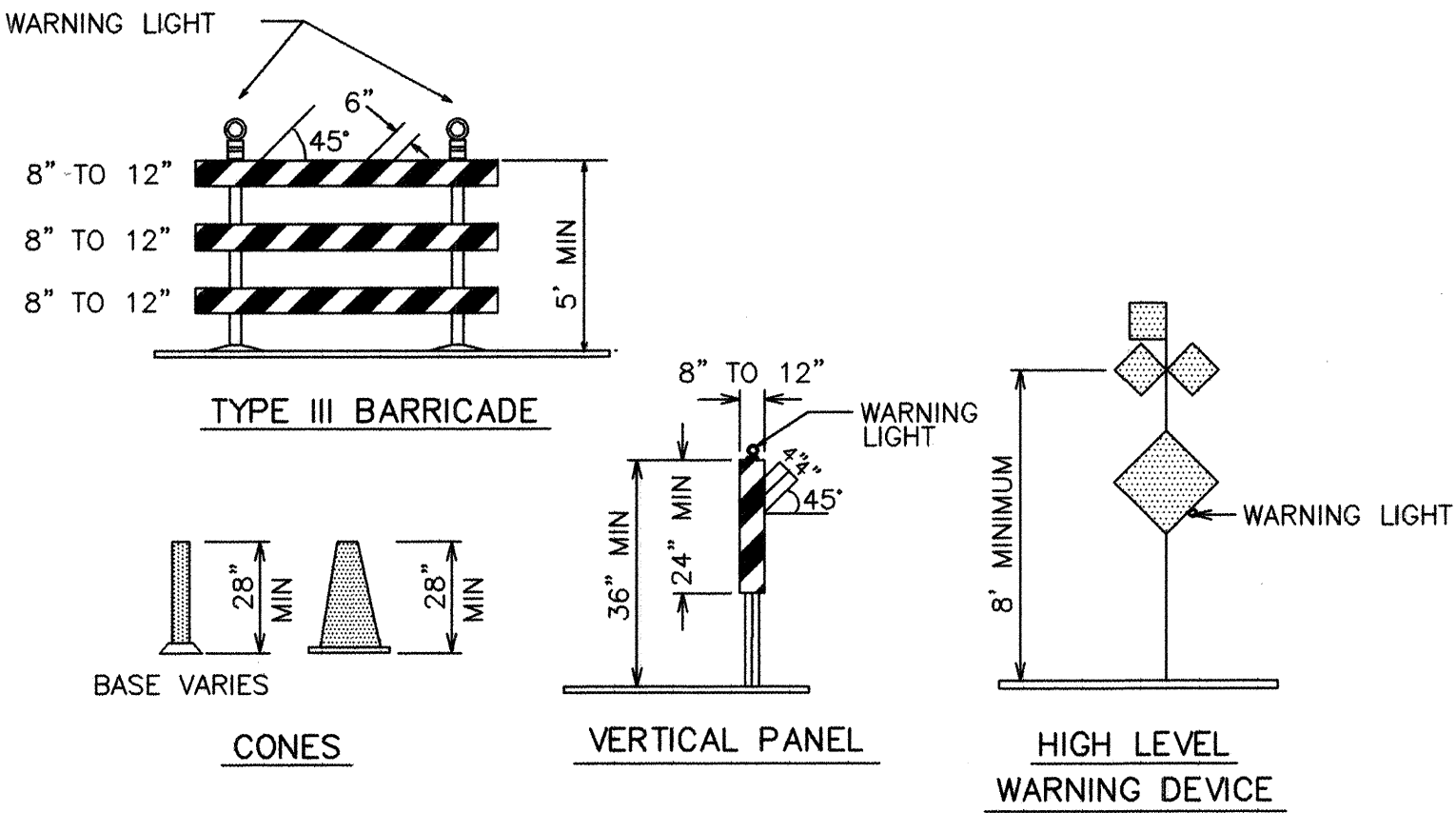
3. CONTRACTOR MUST REMOVE ALL BARRICADES AND OPEN ALL AVAILABLE LANES TO TRAFFIC UPON COMPLETION OF EACH WORK SHIFT.



SIGN FACE DETAILS



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



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 REQUIREMENT

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

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

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

TAPER CRITERIA

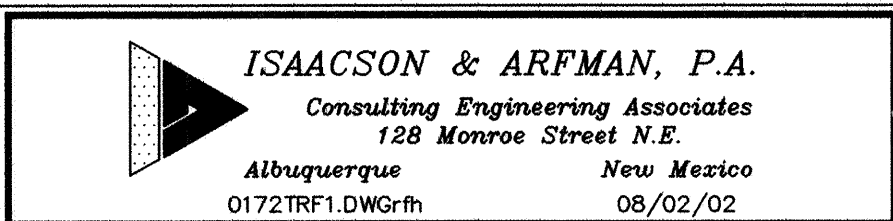
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT
40 MPH OR LESS
40 MPH OR GREATER

$L = WS^2$
 $L = W \times S$

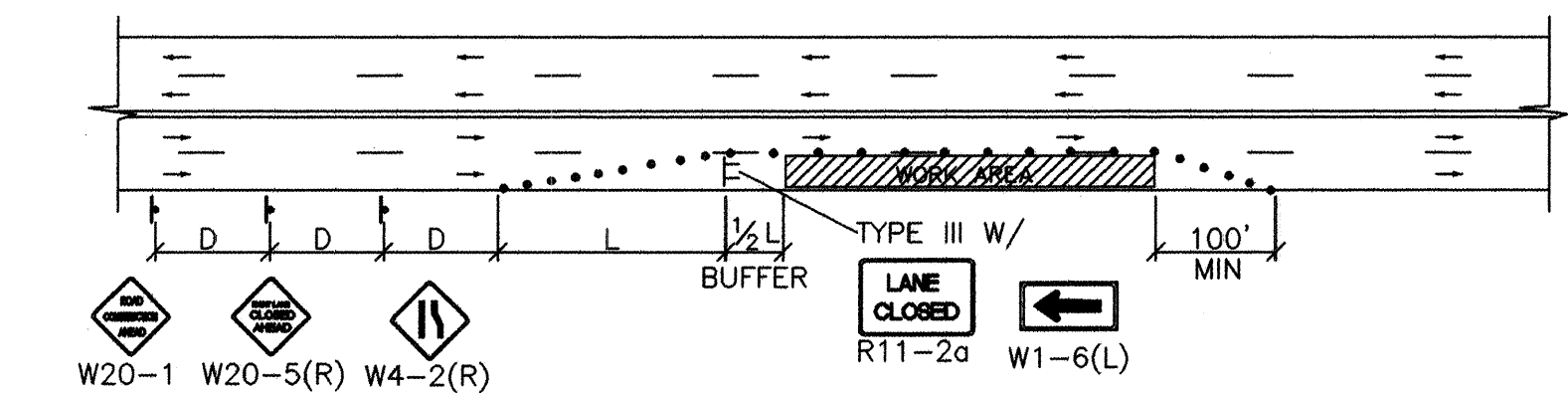
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH



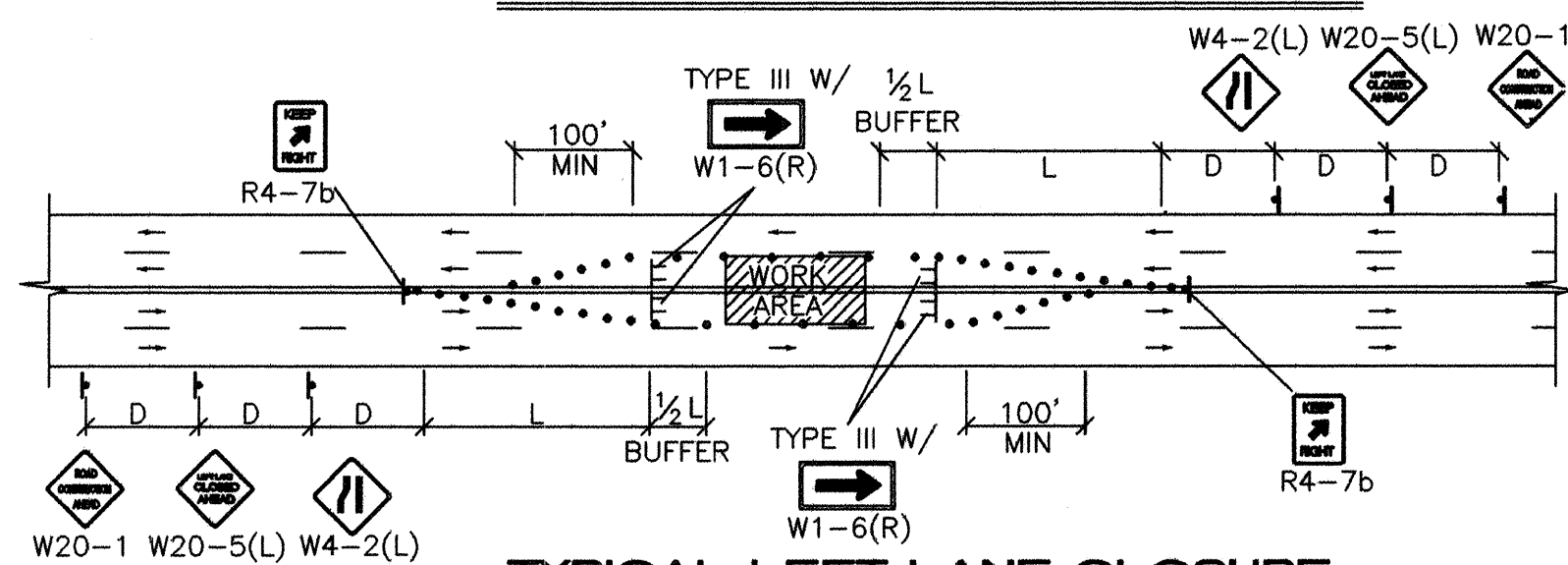
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
TRAFFIC CONTROL NOTES & STANDARDS

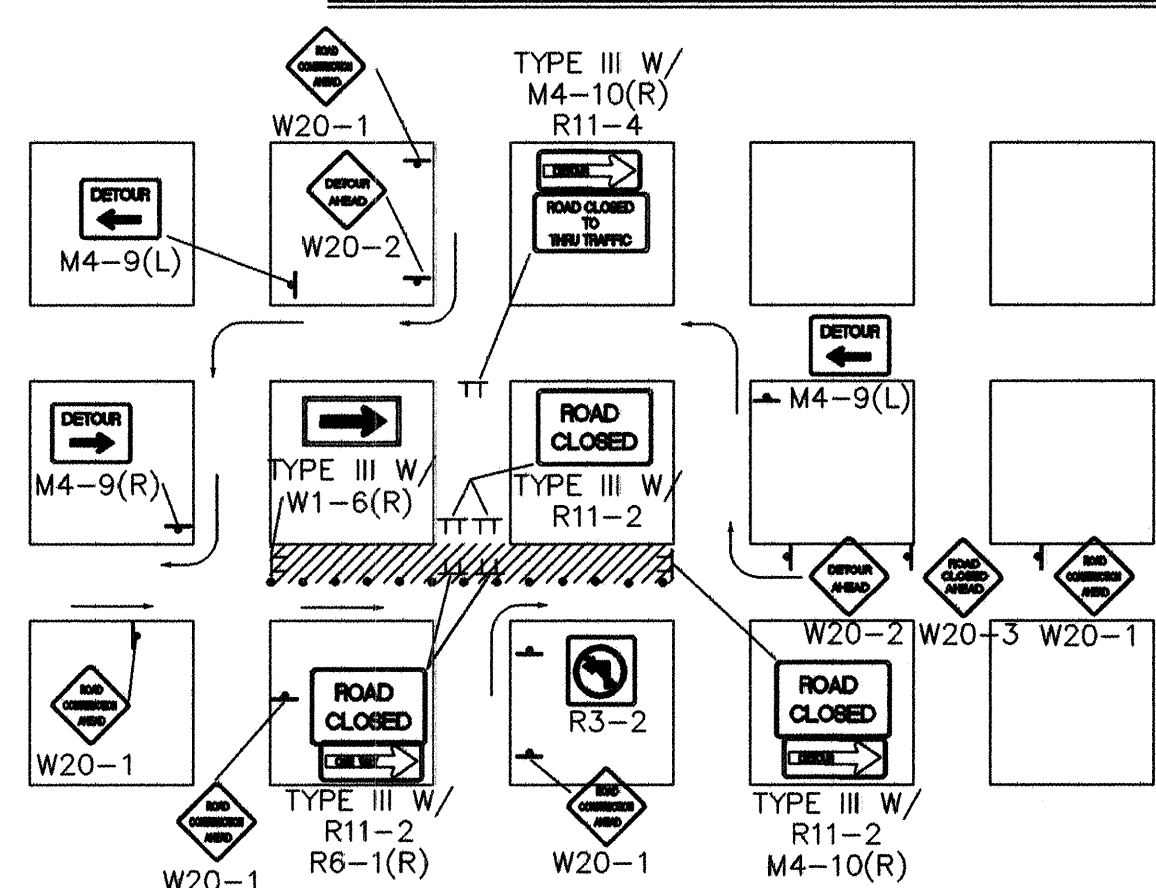
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
COA STD DRAWING		Sheet	14 Of 25
		City Project No.	588292
		Zone Map No.	G22
		Sheet	14 Of 25



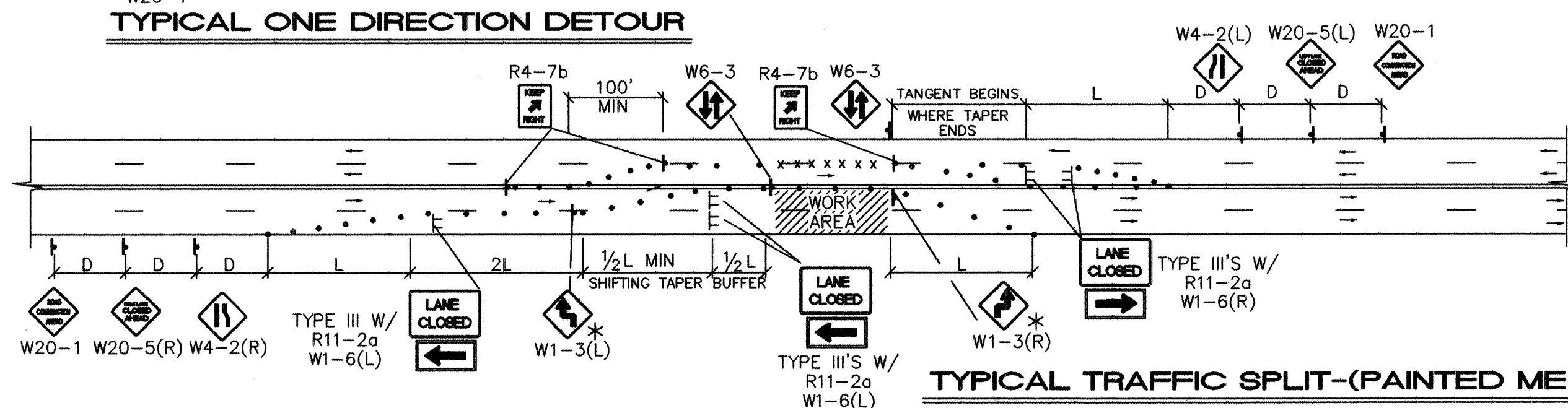
TYPICAL RIGHT LANE CLOSURE



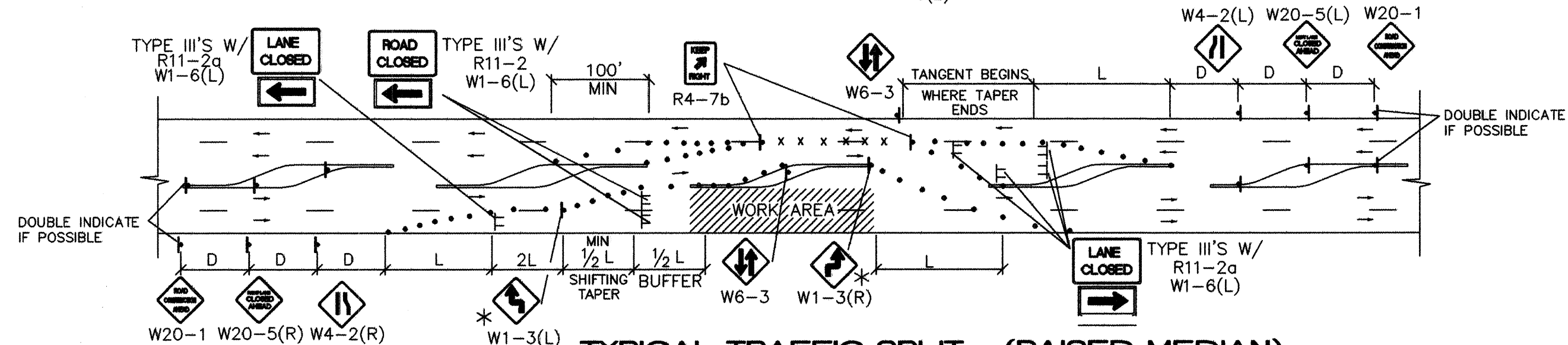
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

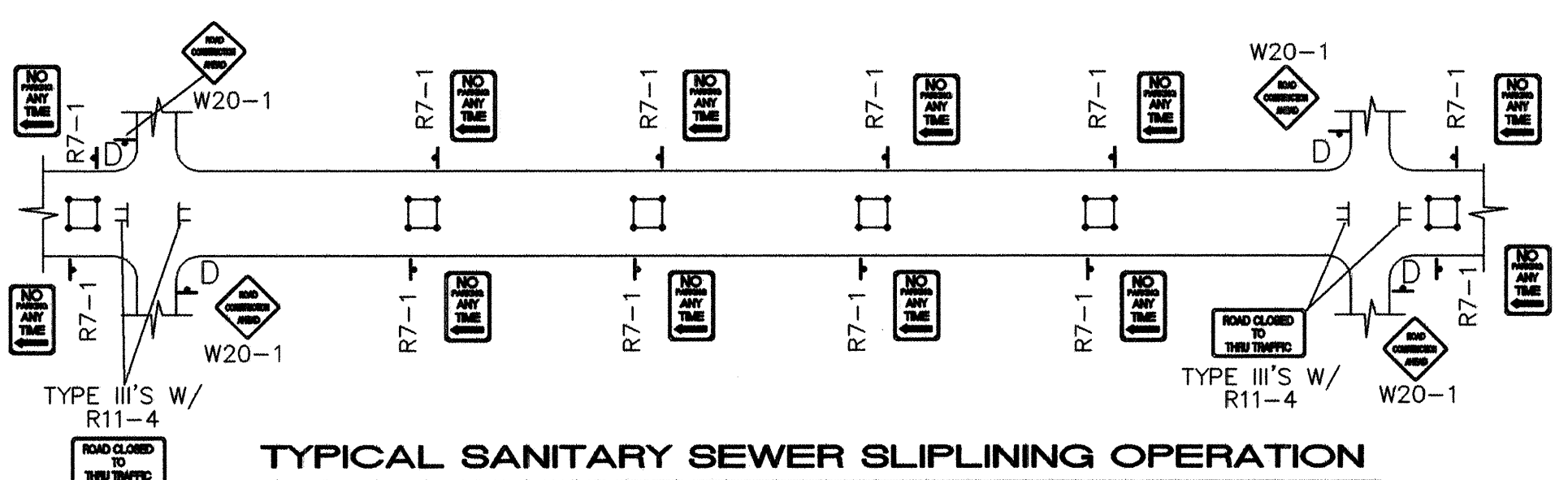


TYPICAL TRAFFIC SPLIT - (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

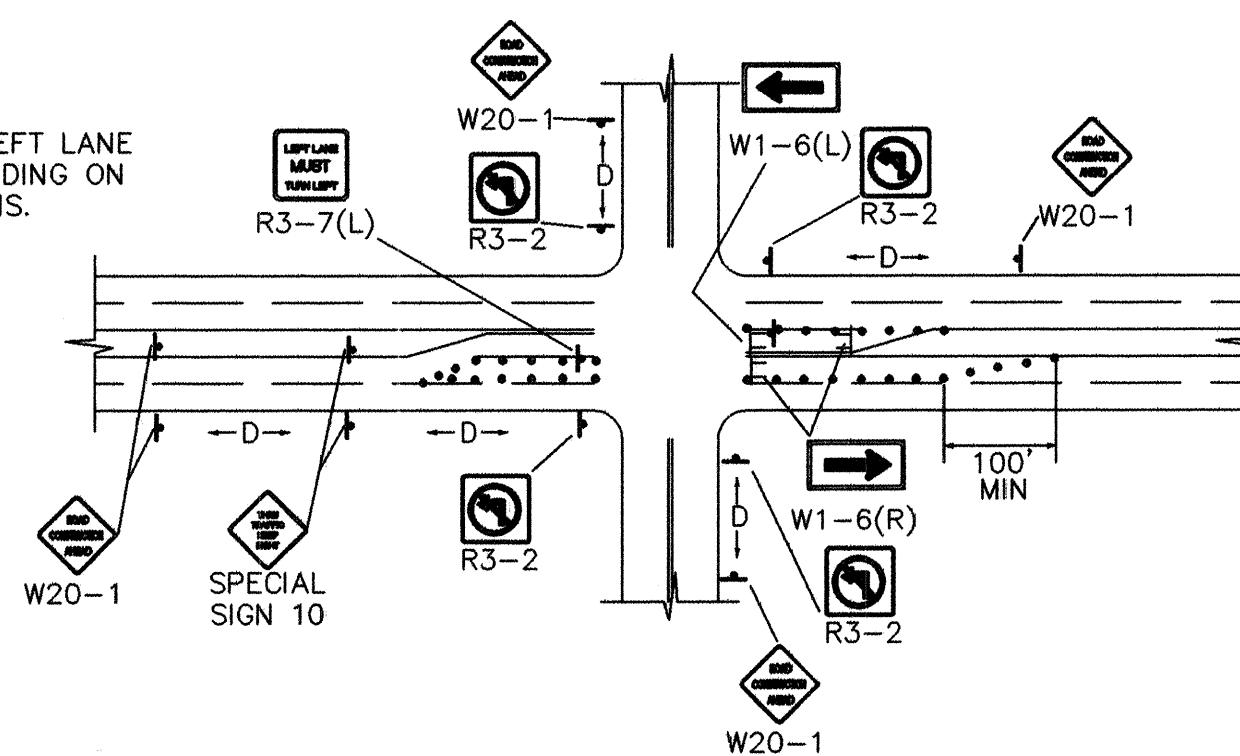
- TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 5. REDUCED SPEED MAY BE CONSIDERED.
 6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

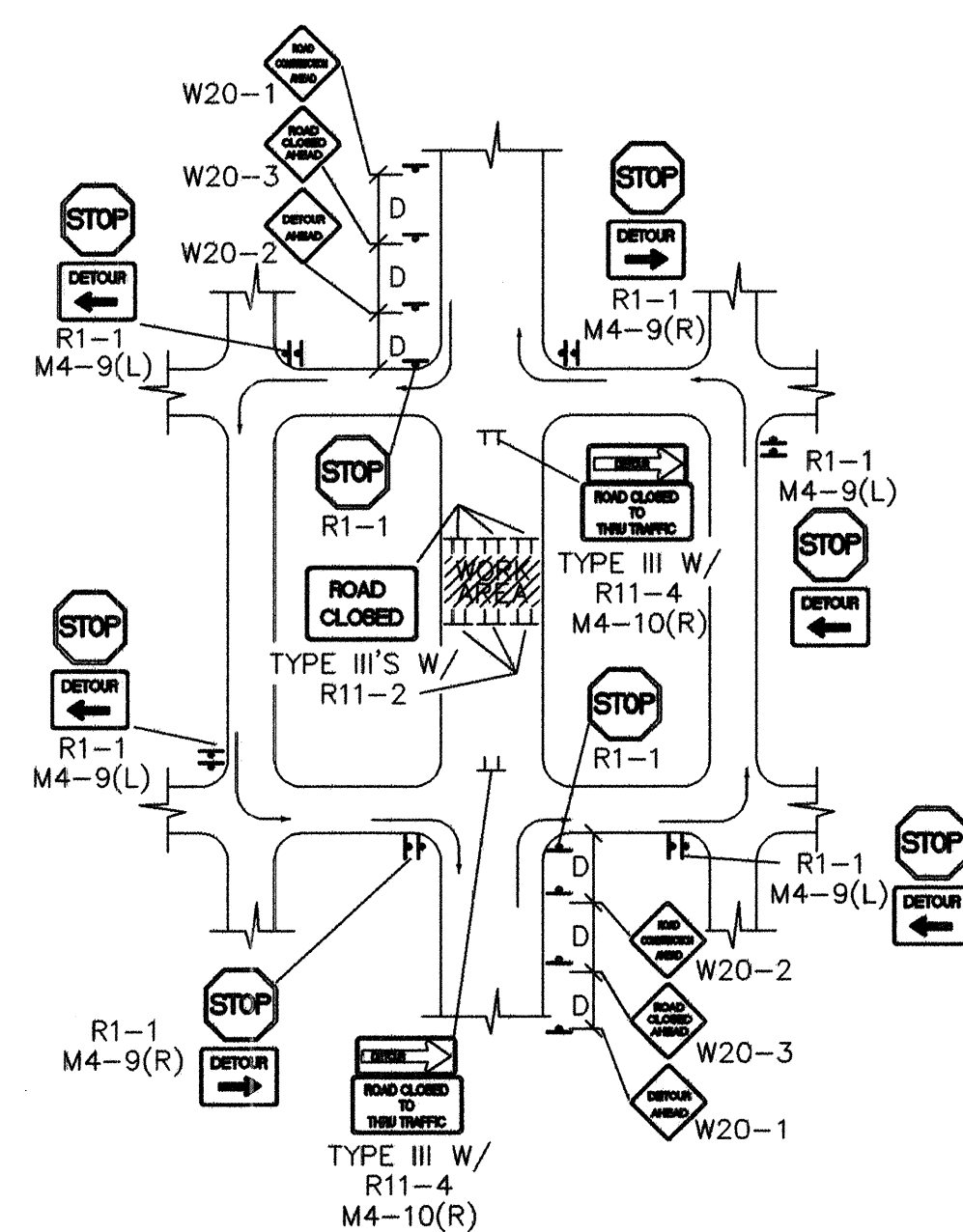
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

NOTE:
MAY REQUIRE LEFT LANE
CLOSURE DEPENDING ON
FIELD CONDITIONS.



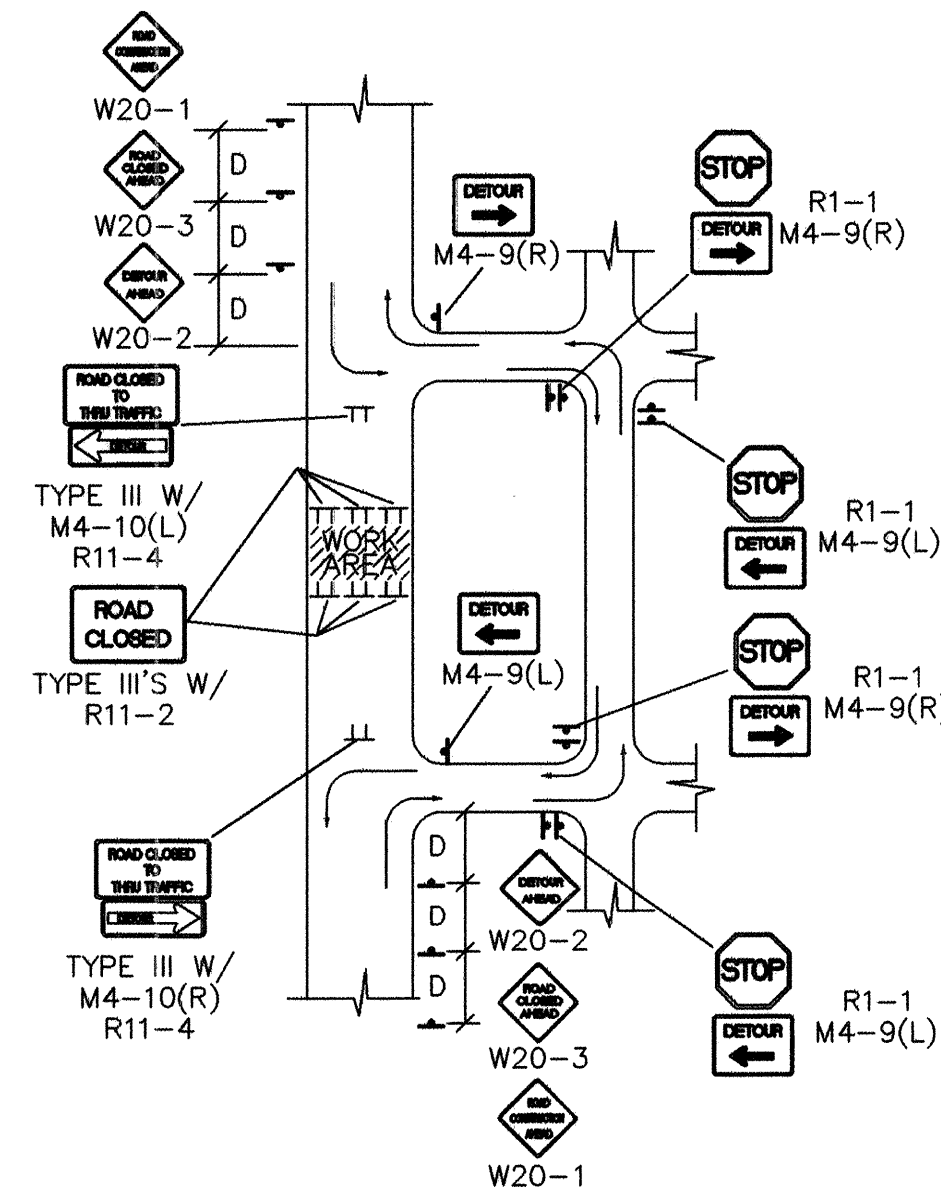
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



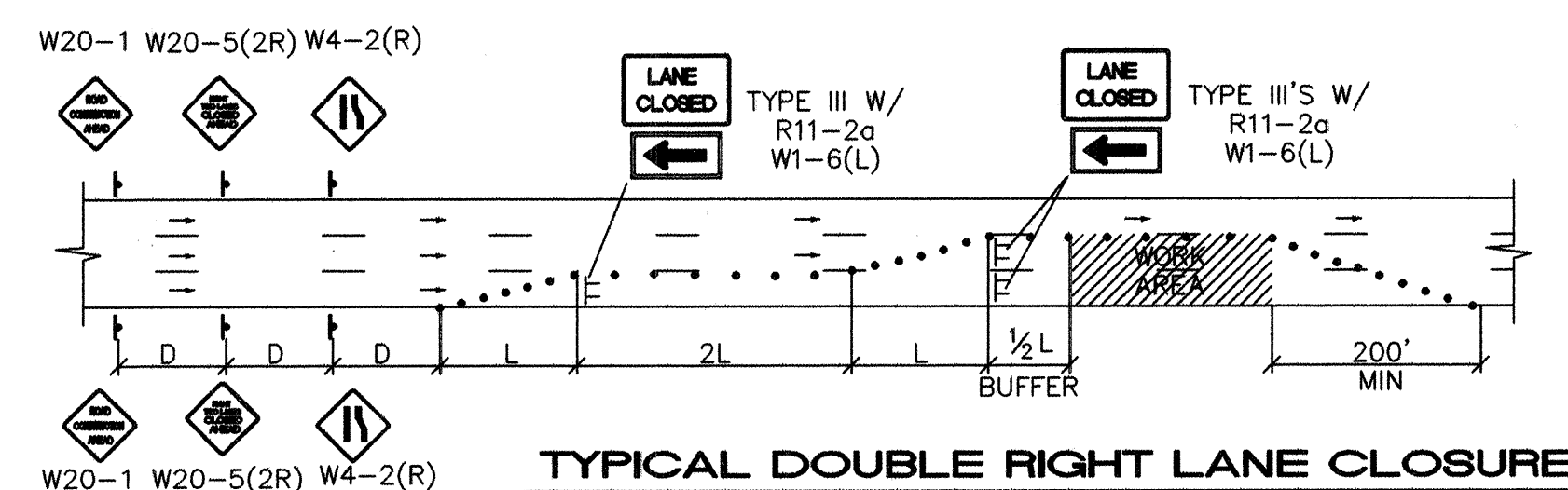
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

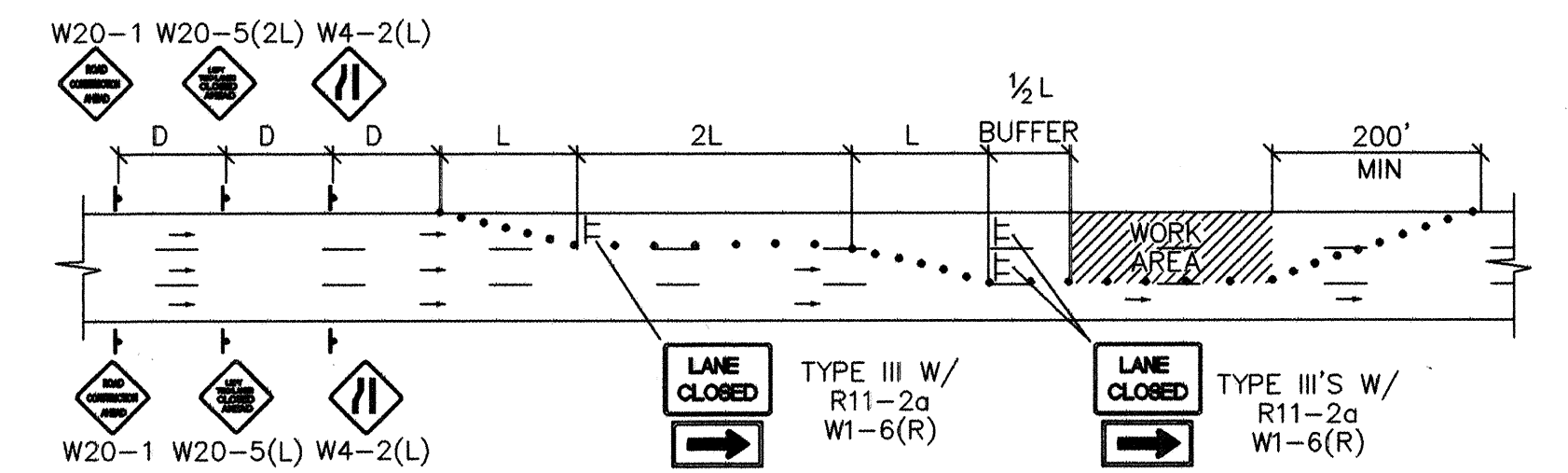


TYPICAL STREET CLOSURE

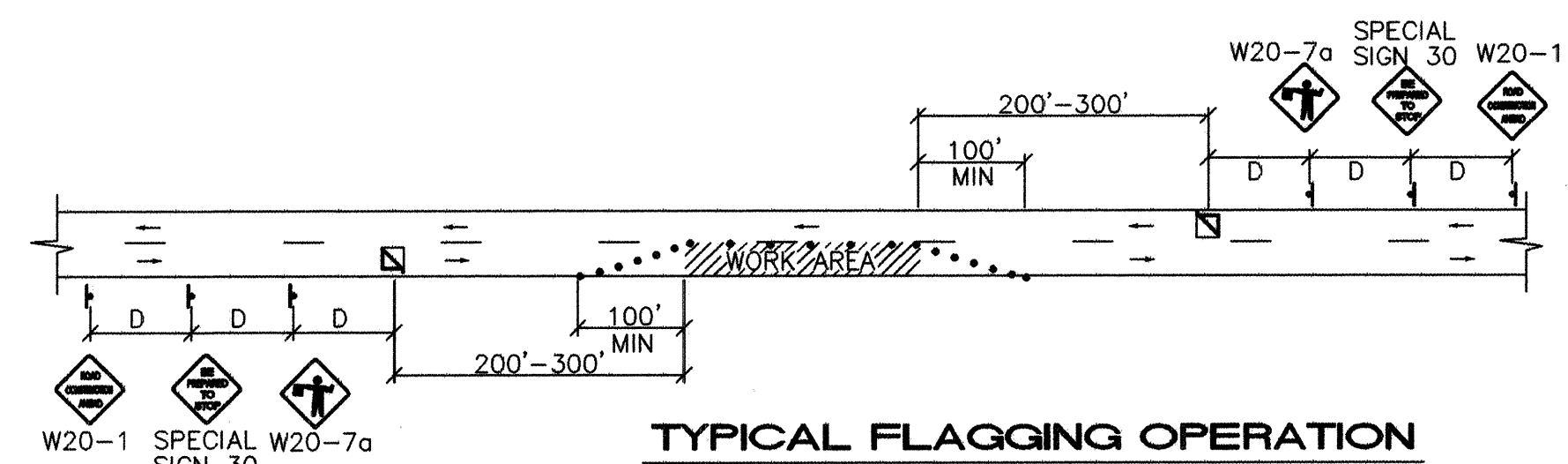
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



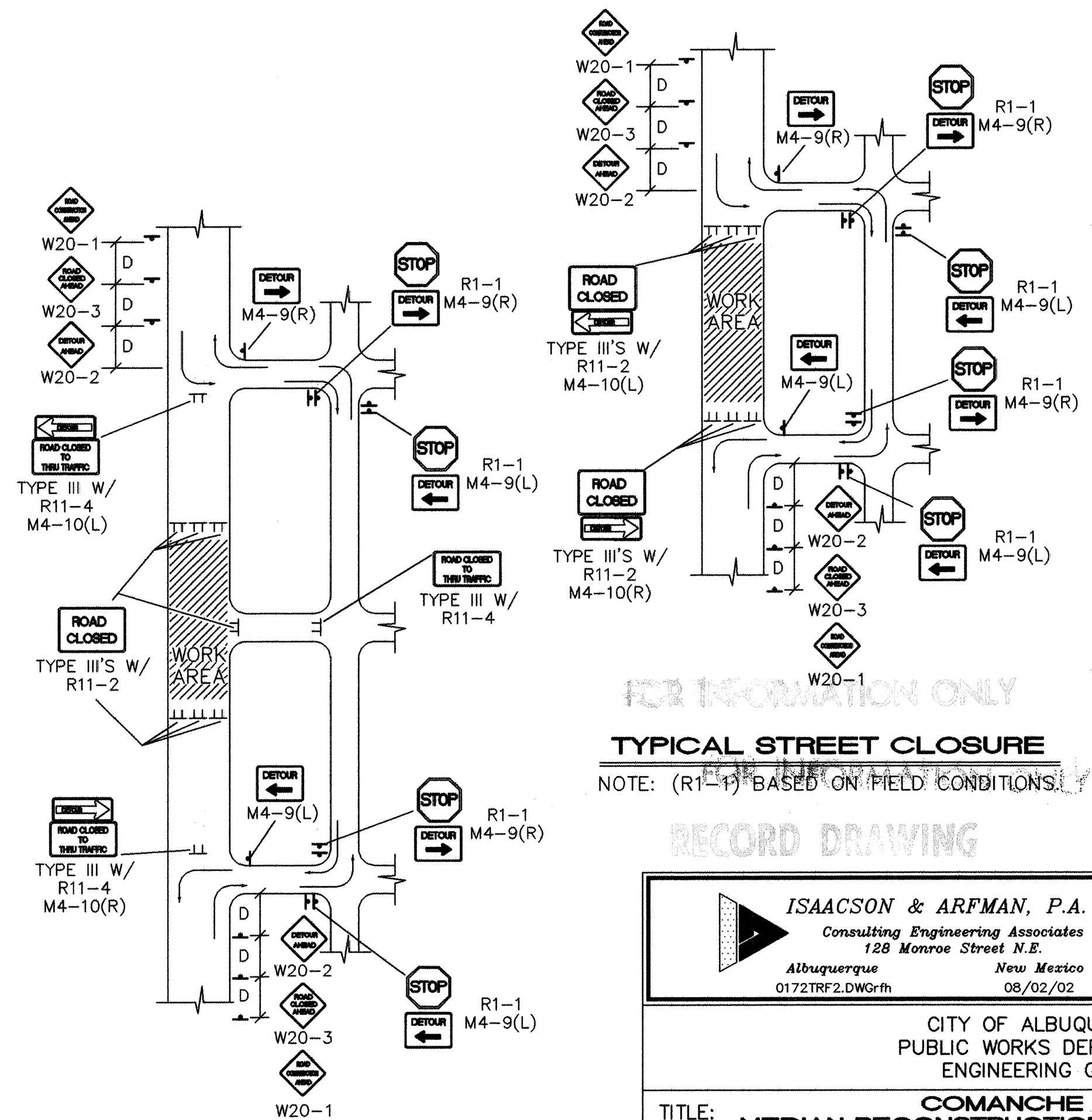
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172TRF2.DWG
08/02/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
TYPICAL TRAFFIC CONTROL & STREET CLOSURE PLAN

Design Review Committee City Engineer Approval

COA STD DRAWING

City Project No. 588292 Zone Map No. Q22 Sheet 15 Of 25

AS-BUILT INFORMATION
CONTRACTOR: AUI
DATE: 9/03
STAMPED BY: AUI
DATE: 9/03
ACCEPTANCE BY: AUI
DATE: 9/03
DRAWING NO.: 703
DATE: 9/03
CORRECTED BY: 703
DATE: 9/03
MICRO-FILM INFORMATION
RECORDED BY: 703
DATE: 9/03

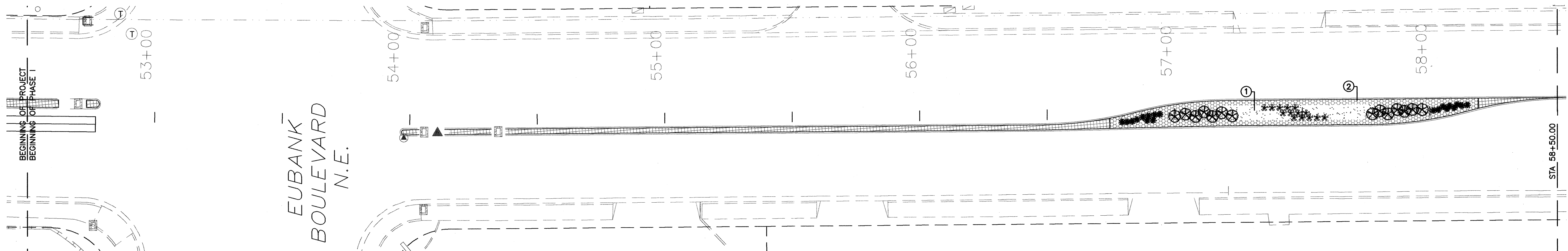
BENCH MARKS
STANDARD ACS BRASS TABLET STAMPED "9-C21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.
NM STATE PLANE COORDINATES (NAD 1927)
X=415515.66 Y=1500259.11 G-G FACTOR: 0.9996434
ELEVATION = 5536.00 FEET (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
1 SURV-TEK, INC. 2/99
1 ALS 12/01

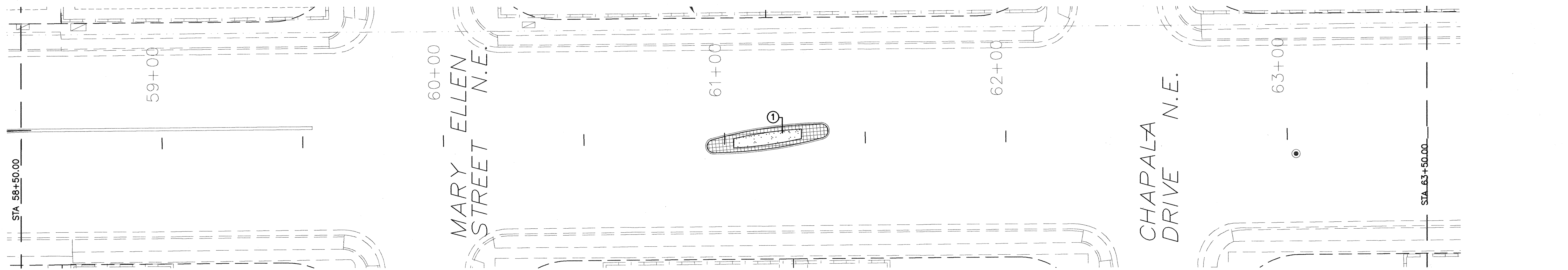
ENGINEER'S SEAL
CITY STANDARD DRAWING

REVISIONS
NO. DATE BY
1 01/02 TOI
2 01/02 KSH
3 01/02 TOI

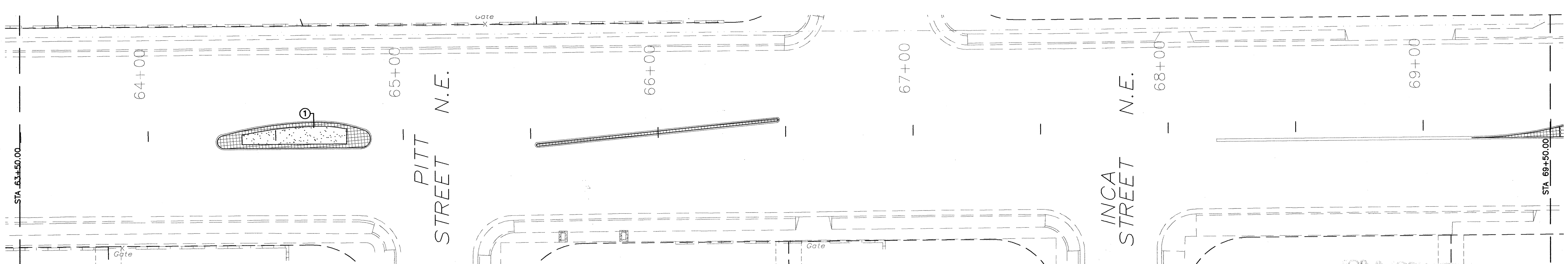
DESIGNED BY TOI
DRAWN BY KSH
CHECKED BY TOI



PLANTING PLAN STA 52+50.00 TO 58+50.00



PLANTING PLAN STA 58+50.00 TO 63+50.00

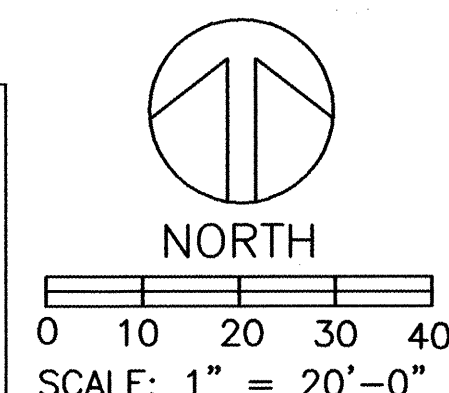


PLANTING PLAN STA 63+50.00 TO 69+50.00

PLANT SCHEDULE							MATERIALS SCHEDULE	
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	SPACING	SYMBOL	DESCRIPTION
SHRUBS								
	Artemisia x Powis Castle	POWIS CASTLE SAGE	14	5 GAL.	60" X 24" HT.	4' O.C.		2"-4" SANTA ANA TAN COBBLESTONE
ORNAMENTAL GRASSES								
	Calamagrostis arundinacea	FEATHER REED GRASS	19	5 GAL.	36" X 30" HT.	3' O.C.		SANTA FE BROWN CRUSHER FINES (60%) 1/2" CRUSHED GRAVEL (40% GRAVEL) CUSTOM BLEND
	Pennisetum alopecuroides	FOUNTAIN GRASS	14	5 GAL.	30" X 30" HT.	3' O.C.		TEXTURED MEDIAN CONCRETE (SEE CIVIL PLANS)

NOTE:
SEE SHEETS 24 AND 25 FOR NOTES AND DETAILS.

G. Robert Johns, ASLA
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3218 SILVER AVENUE SE
ALBUQUERQUE, NEW MEXICO 87106
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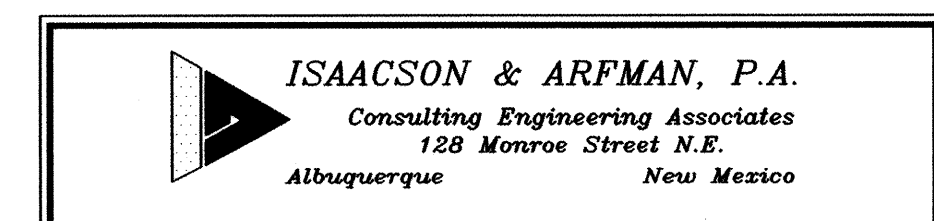


KEYED NOTES

- 2" - 3" DEPTH MULCH MIX: SANTA FE CRUSHER FINES (60%) AND 1/2" GREY CRUSHED GRAVEL (40%) (LAFARGE 343-7800 OR EQUAL) NO FILTER FABRIC REQUIRED. MULCH SHALL BE MIXED THOROUGHLY AND SHALL BE RAKED AND BROUGHT TO A UNIFORM SURFACE. RECLAMATION SEED MIX (SEE NOTES SHEET 36) SHALL BE BROADCAST ACCORDING TO CITY SPECIFICATION 1011.5.4.
- A MINIMUM 2" DEPTH OF 4" - 2" SANTA ANA TAN COBBLESTONE (LAFARGE 343-7800 OR EQUAL).

FOR INFORMATION ONLY

RECORD DRAWING



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING PLANTING PLAN STA 52+50.00 TO STA 69+50.00	
Design Review Committee APPROVED SEP 3 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED SEP 3 2002 CITY ENGINEER
City Project No. 588292	Zone Map No. G21
Sheet 16	of 25

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STANDARD ACS BRASS TABLET STAMPED "9-021" DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE. ELEVATION = 5536.00 FEET	FIELD NOTES	1	2/99	2/99	2/99
WORK DONE BY	DATE						
INSPECTOR'S ACCEPTANCE BY	DATE						
VERIFICATION BY	DATE						
COMPLETED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

DESIGNED BY	GRJ/ML	DATE	9/06/02
DRAWN BY	ML	DATE	9/06/02
CHECKED BY	GRJ	DATE	9/06/02

701	Revised Drawing	REVISIONS
NO.	DATE	REMARKS
701		DESIGN

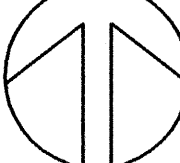
PLANTING PLAN STA 69+50.00 TO 75+00.00

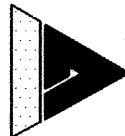
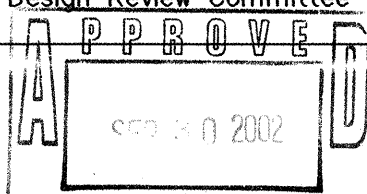
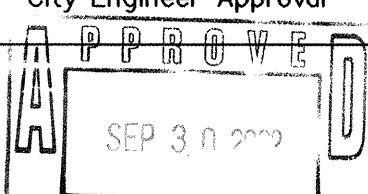
PLANTING PLAN STA 75+00.00 TO 80+00.00

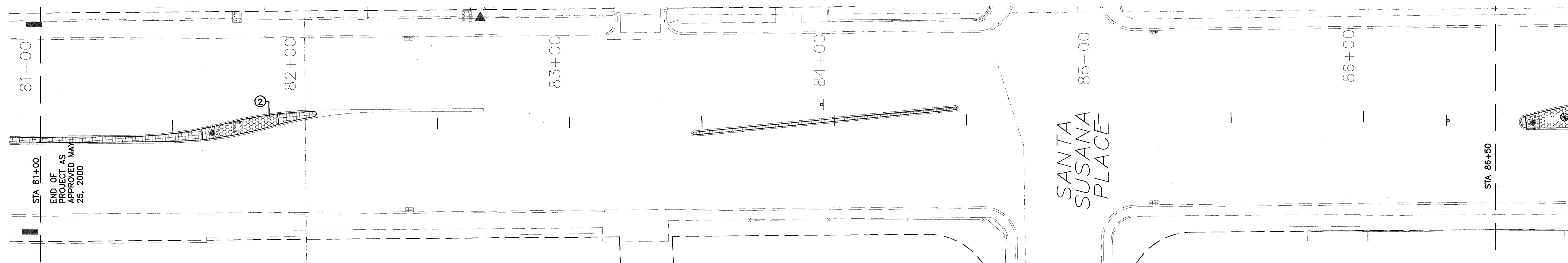
PLANTING PLAN STA 80+00.00 TO 81+00.00

PLANT SCHEDULE							MATERIALS SCHEDULE	
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	SPACING	SYMBOL	DESCRIPTION
SHRUBS								
	Forestiera neomexicana	NEW MEXICO OLIVE	13	5 GAL.	15" X 15" HT.	+/- 10' O.C.		2"-4" SANTA ANA TAN COBBLESTONE
	Rhus trilobata 'Prostrata'	PROSTRATE SUMAC	61	5 GAL.	72" X 24" HT.	5' O.C.		SANTA FE BROWN CRUSHER FINES
	Artemisia x Powis Castle	POWIS CASTLE SAGE	13	5 GAL.	60" X 24" HT.	4' O.C.		(60%) 1/2" CRUSHED GRAVEL (40% GRAVEL) CUSTOM BLEND
ORNAMENTAL GRASSES AND PLANTS								
	Muhlenbergia lindheimeri	AUTUMN GLOW	54	5 GAL.	60" X 60" HT.	4' O.C.		TEXTURED MEDIAN CONCRETE (SEE CIVIL PLANS)
	Calamagrostis arundinacea 'Karl Foerster'	FEATHER REED GRASS	20	5 GAL.	36" X 30" HT.	3' O.C.		
	Pennisetum alopecuroides	FOUNTAIN GRASS	30	5 GAL.	30" X 30" HT.	3' O.C.		
	Miscanthus sinensis 'Yakujima'	DWARF MAIDENGRASS	20	5 GAL.	36" X 30" HT.	3'-4' O.C.		
	Achillea taygetea	MOONSHINE YARROW	50	5 GAL.	18" X 18" HT.	18" O.C.		

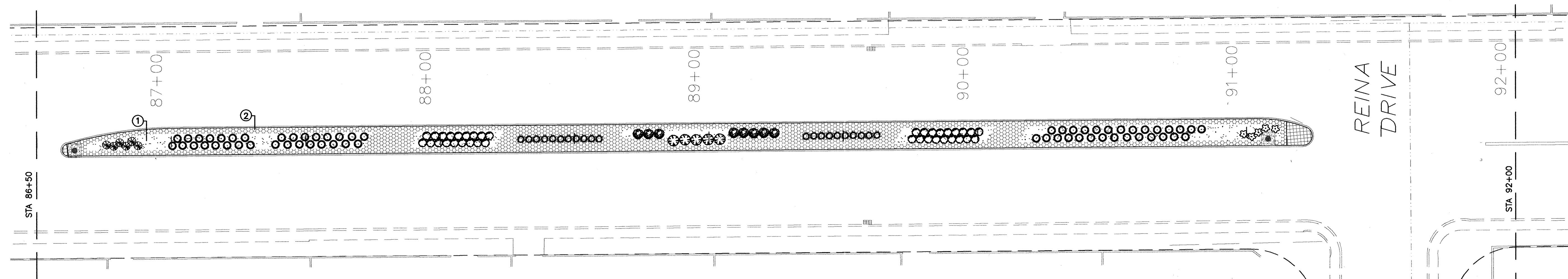
NOTE:
SEE SHEETS 24 AND 25 FOR NOTES AND DETAILS.

G. Robert Johns, ASLA LANDSCAPE ARCHITECTS 3218 SILVER AVENUE SE ALBUQUERQUE, NEW MEXICO 87106 PHONE: (505)266-8027 FAX: (505)266-8234	 NORTH  SCALE: 1" = 20'-0"
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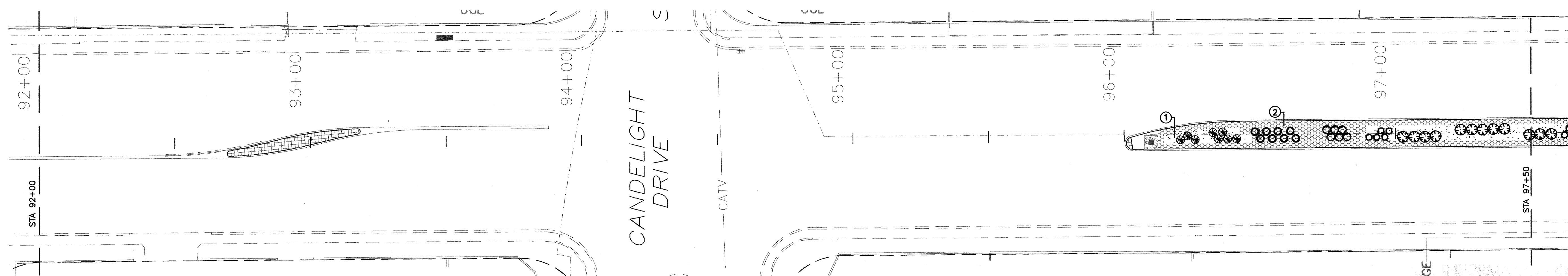
FOR INFORMATION ONLY						RECORD Dwg		REVISION		DESIGN		DESIGNED BY GRJ/NML		DRAWN BY ML		CHECKED BY GRJ	
RECORD DRAWING						7/03		NO. DATE									
 ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque New Mexico																	
		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP															
		COMANCHE ROAD															
		TITLE: MEDIAN RECONSTRUCTION & LANDSCAPING PLANTING PLAN STA 69+50.00 TO STA 81+00.00															
Design Review Committee		City Engineer Approval		Last Design Update		Mo./Day/Yr.		Mo./Day/Yr.									
 APPROVE SEP 3 0 2002 DESIGN REVIEW COMMITTEE		 APPROVE SEP 3 0 2002 CITY ENGINEER		Mo./Day/Yr.		Mo./Day/Yr.											
City Project No.		588292		Zone Map No.		G21		Sheet		Of		17		25			



PLANTING PLAN STA 81+00.00 TO 86+50.00



PLANTING PLAN STA 86+50.00 TO 92+00.00

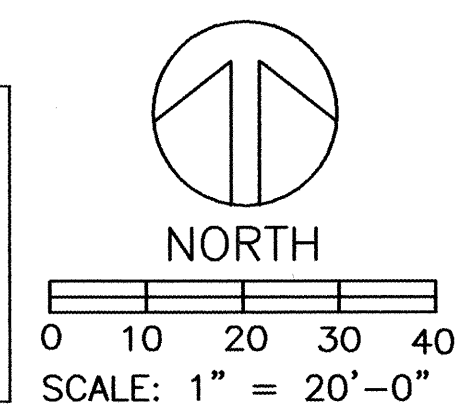


PLANTING PLAN STA 92+00.00 TO 97+50.00

PLANT LEGEND							MATERIALS SCHEDULE	
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	MINIMUM SPACING	SYMBOL	DESCRIPTION
SHRUBS								
	Rhus trilobata	THREE LEAF SUMAC	14	5 GAL.	60" X 36" HT.	5' O.C.		2"-4" SANTA ANA TAN COBBLESTONE
	Fallugia paradoxa	APACHE PLUME	8	5 GAL.	60" X 48" HT.	5' O.C.		SANTA FE BROWN CRUSHER FINES (60%) 1/2" CRUSHED GRAVEL (40% GRAVEL) CUSTOM BLEND
	Eurotia lanata	WINTERFAT	42	5 GAL.	24" X 24" HT.	3' O.C.		TEXTURED MEDIAN CONCRETE (SEE CIVIL PLANS)
	Nolina texana	LITTLE BEARGRASS	67	5 GAL.	24" X 24" HT.	4' O.C.		
	Artemisia filifolia	THREADLEAF SAGE	26	5 GAL.	36" X 36" HT.	3' O.C.		
ORNAMENTAL GRASSES								
	Muhlenbergia capillaris	REGAL MIST MUHLY	5	5 GAL.	36" X 36" HT.	3'-4' O.C.		
	Miscanthus sinensis, 'Yakujima'	DWARF MAIDENGRASS	14	5 GAL.	36" X 36" HT.	3'-4' O.C.		

NOTE:
SEE SHEETS 24 AND 25 FOR NOTES AND DETAILS.

G. Robert Johns, ASLA
LANDSCAPE ARCHITECTS
3218 SILVER AVENUE SE
ALBUQUERQUE, NEW MEXICO 87106
PHONE: (505)266-8027
FAX: (505)266-8234



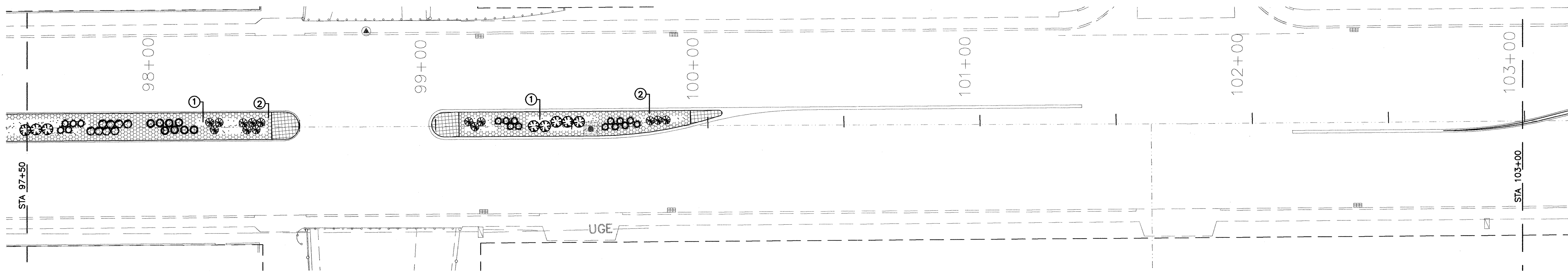
KEYED NOTES

- 2" - 3" DEPTH MULCH MIX: SANTA FE CRUSHER FINES (60%) AND 1/2" GREY CRUSHED GRAVEL (40%) (LAFARGE 343-7800 OR EQUAL) NO FILTER FABRIC REQUIRED. MULCH SHALL BE MIXED THOROUGHLY AND SHALL BE RAKED AND BROUGHT TO A UNIFORM SURFACE. RECLAMATION SEED MIX (SEE NOTES SHEET 36) SHALL BE BROADCAST ACCORDING TO CITY SPECIFICATION 1011.5.4.
- A MINIMUM 2" DEPTH OF 4" - 2" SANTA ANA TAN COBBLESTONE (LAFARGE 343-7800 OR EQUAL).

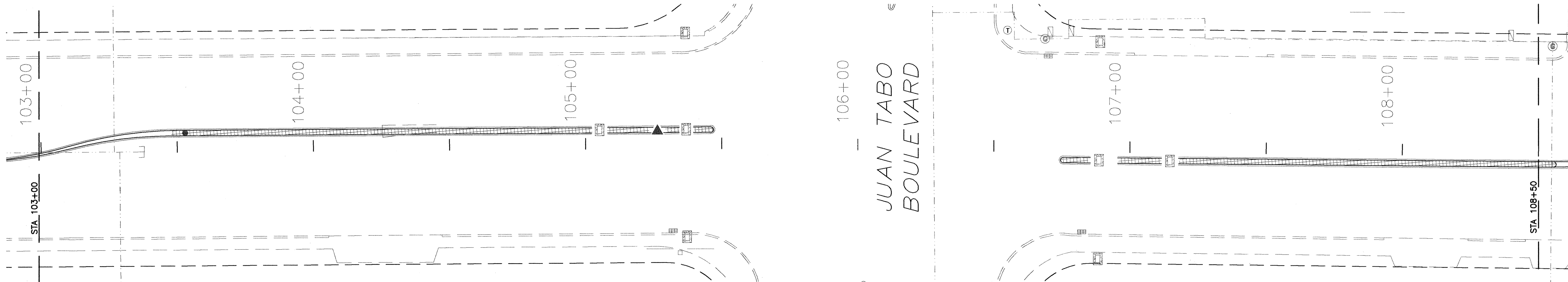
RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

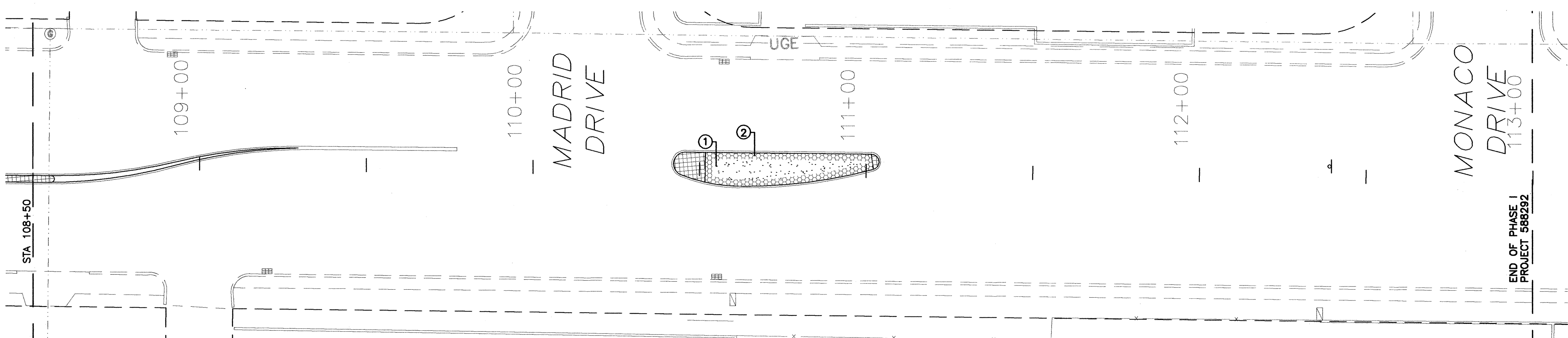
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING PLANTING PLAN STA 81+00.00 TO STA 97+50.00	
Design Review Committee APPROVE SEP 3 2002	City Engineer Approval APPROVE SEP 3 2002 CITY ENGINEER
City Project No. 588292	Zone Map No. G21
Sheet 18	Of 25



PLANTING PLAN STA 97+50.00 TO 103+00.00



PLANTING PLAN STA 103+00.00 TO 108+50.00

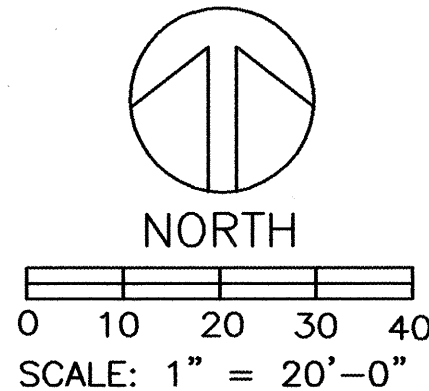


PLANTING PLAN STA 108+50.00 TO 113+00.00

PLANT LEGEND							MATERIALS SCHEDULE	
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	MINIMUM SPACING	SYMBOL	DESCRIPTION
SHRUBS								
⊗	Rhus trilobata	THREE LEAF SUMAC	8	5 GAL.	60" X 36" HT.	5' O.C.	⊗	2"-4" SANTA ANA TAN COBBLESTONE
⊙	Eurotia lanata	WINTERFAT	8	5 GAL.	24" X 24" HT.	3' O.C.	⊙	SANTA FE BROWN CRUSHER FINES (60%) 1/2" CRUSHED GRAVEL (40% GRAVEL) CUSTOM BLEND
⊘	Nolina texana	LITTLE BEARGRASS	8	5 GAL.	24" X 24" HT.	4' O.C.	⊘	TEXTURED MEDIAN CONCRETE (SEE CIVIL PLANS)
⊙	Artemisia filifolia	THREADLEAF SAGE	17	5 GAL.	36" X 36" HT.	3' O.C.		
ORNAMENTAL GRASSES								
⊗	Miscanthus sinensis, 'Yakujima'	DWARF MAIDENGRASS	14	5 GAL.	36" X 36" HT.	3'- 4' O.C.		

NOTE:
SEE SHEETS 24 AND 25 FOR NOTES AND DETAILS.

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KEYED NOTES

- ① 2" - 3" DEPTH MULCH MIX: SANTA FE CRUSHER FINES (60%) AND 1/2" GREY CRUSHED GRAVEL (40%) (LAFARGE 343-7800 OR EQUAL). NO FILTER FABRIC REQUIRED. MULCH SHALL BE MIXED THOROUGHLY AND SHALL BE RAKED AND BROUGHT TO A UNIFORM SURFACE. RECLAMATION SEED MIX (SEE NOTES SHEET 36) SHALL BE BROADCAST ACCORDING TO CITY SPECIFICATION 1011.5.4.
- ② A MINIMUM 2" DEPTH OF 4" - 2" SANTA ANA TAN COBBLESTONE (LAFARGE 343-7800 OR EQUAL).

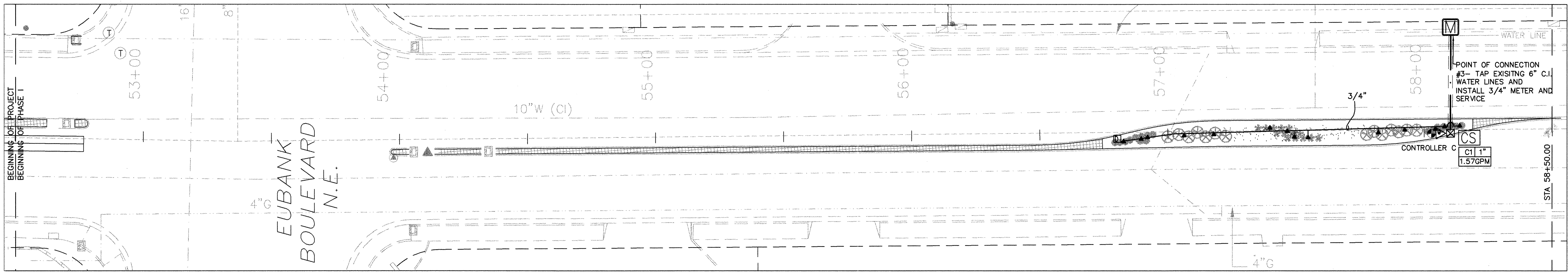
FOR INFORMATION ONLY

RECORD DRAWING

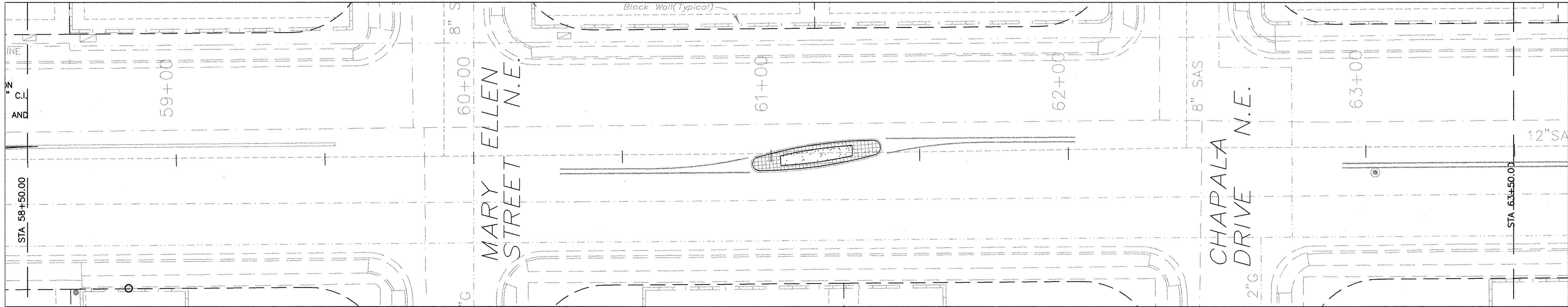
ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque New Mexico	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING PLANTING PLAN STA 97+50.00 TO STA 114+00.00	
Design Review Committee APPROVE SEP 30 2002	City Engineer Approval APPROVE SEP 30 2002
DESIGN REVIEW COMMITTEE	CITY ENGINEER
City Project No. 588292	Zone Map No. G21
Sheet 19	OF 25

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
1	FIELD NOTES SURV-TEK, INC.	2/99	STANDARD ACS BRASS TABLET STAMPED "9-021" DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE. ELEVATION = 5536.00 FEET	CONTRACTOR AULI	DATE 9/03
				INSPECTOR'S ACCEPTANCE BY DATE 9/03	
				VERIFIED BY DATE 9/03	
				RECORDED BY DATE 9/03	
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	

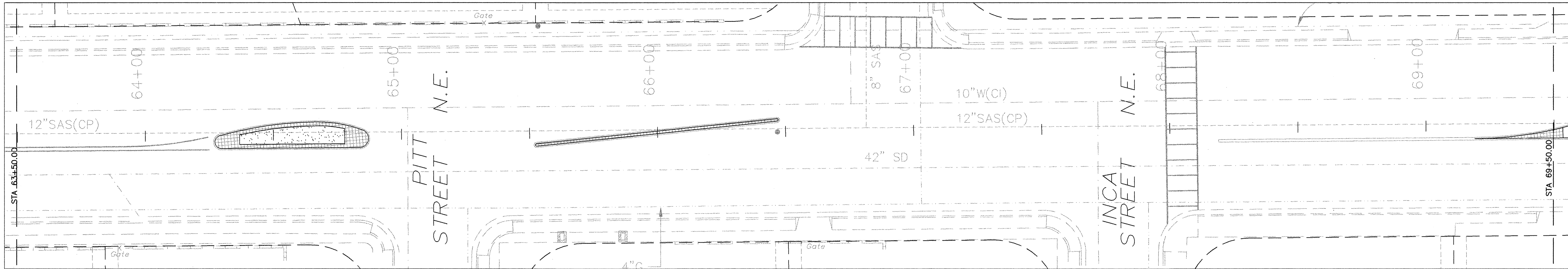




IRRIGATION PLAN STA 52+50.00 TO 58+50.00



IRRIGATION PLAN STA 58+50.00 TO 63+50.00

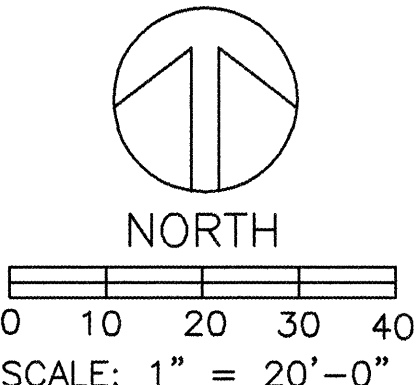


IRRIGATION PLAN STA 63+50.00 TO 69+50.00

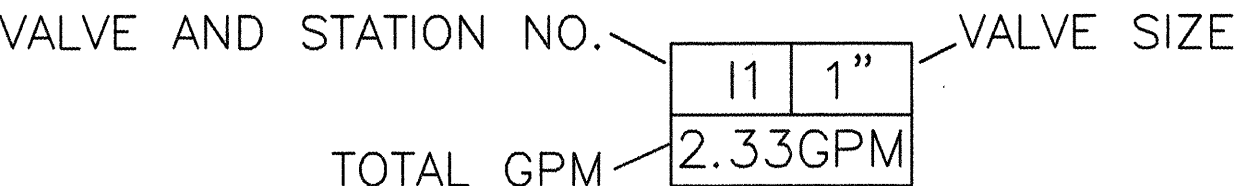
NOTE: A SANITARY SEWER LINE RUNS DOWN THE CENTER OF THE MEDIANS. TO AVOID CONFLICTS, MAINLINES SHALL BE LOCATED 3' NORTH OF ISLAND CENTERLINE. LATERALS AND RISERS SHALL BE INSTALLED NORTH OF THE ISLAND CENTERLINE. PLACEMENT OF IRRIGATION EQUIPMENT AND LINES ARE SHOWN FOR GRAPHIC PURPOSES ONLY. ALL EQUIPMENT AND LINES SHALL BE PLACED WITHIN THE MEDIAN ISLANDS PER NOTES AND CITY STANDARDS.

NOTE:
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VALVE LEGEND



FOR INFORMATION ONLY
RECORD DRAWING

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128 Monroe Street N.E.
Albuquerque New Mexico

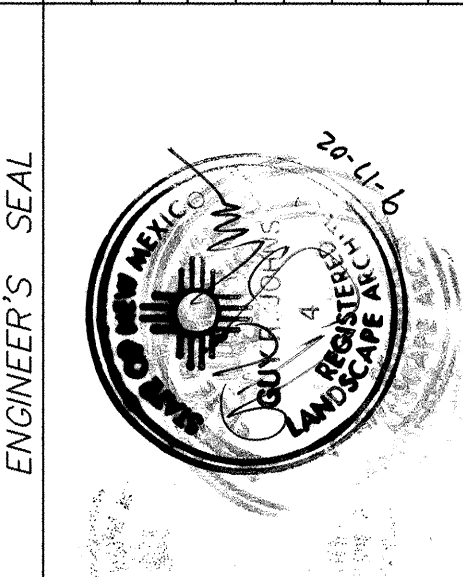
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
IRRIGATION PLAN STA 52+50.00 TO STA 69+50.00

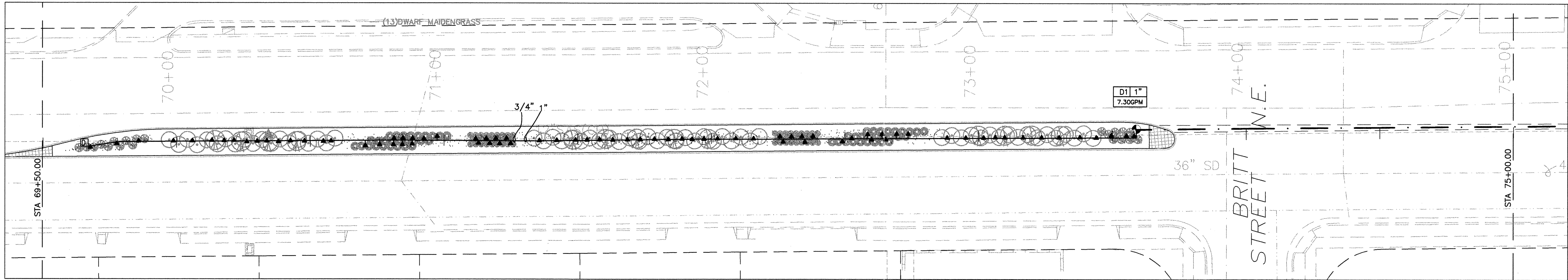
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Ms./Day/Yr.	Ms./Day/Yr.
SEP 30 2002	SEP 30 2002		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. 588292 Zone Map No. G21 Sheet 20 of 25

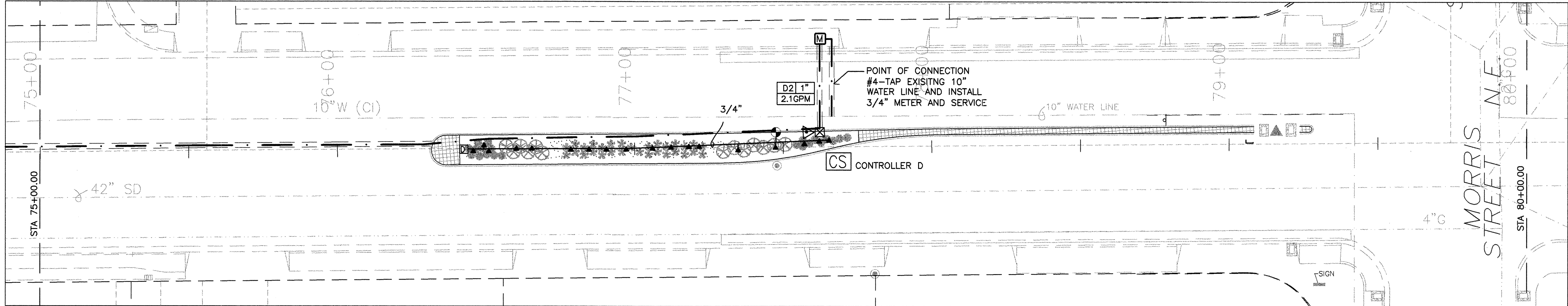
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INSPECTOR'S NAME	ALJ	DATE	7/03
FIELD VERIFICATION BY	ALJ	DATE	7/03
CORRECTED BY	ALJ	DATE	7/03
MICRO-FILM INFORMATION			
RECORDED BY		DATE	
NO.			



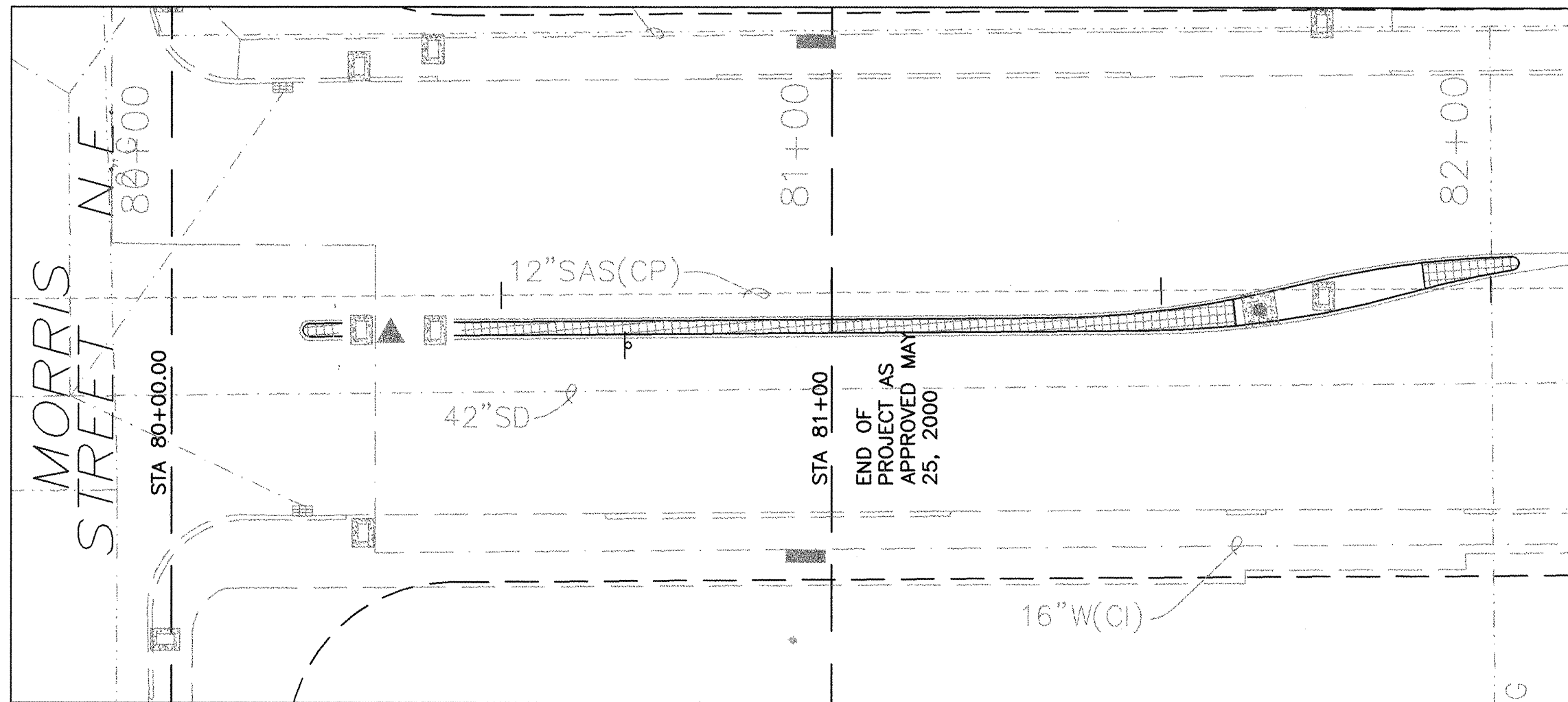
SURVEY INFORMATION		BENCH MARKS	
FIELD NOTES	2/99	STANDARD ACS BRASS TABLET STAMPED "9-021" DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE. ELEVATION = 5536.00 FEET	
1	SURV-TEK, INC.		



IRRIGATION PLAN STA 61+50.00 TO 75+00.00



IRRIGATION PLAN STA 75+00.00 TO 80+00.00

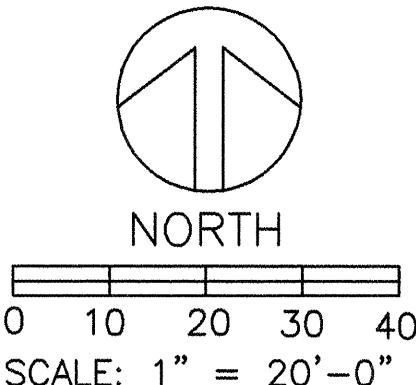


IRRIGATION PLAN STA 80+00.00 TO 81+00.00

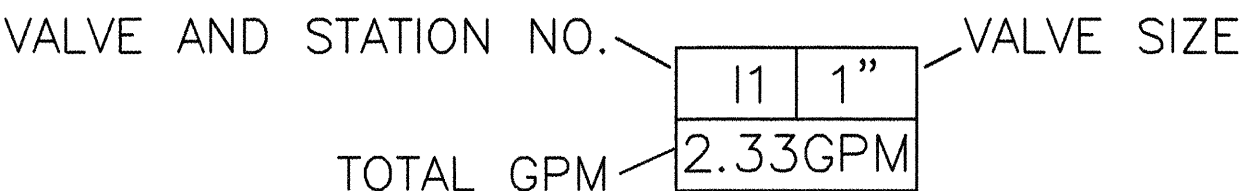
NOTE: A SANITARY SEWER LINE RUNS DOWN THE CENTER OF THE MEDIANS. TO AVOID CONFLICTS, MAINLINES SHALL BE LOCATED 3' NORTH OF ISLAND CENTERLINE. LATERALS AND RISERS SHALL BE INSTALLED NORTH OF THE ISLAND CENTERLINE. PLACEMENT OF IRRIGATION EQUIPMENT AND LINES ARE SHOWN FOR GRAPHIC PURPOSES ONLY. ALL EQUIPMENT AND LINES SHALL BE PLACED WITHIN THE MEDIAN ISLANDS PER NOTES AND CITY STANDARDS.

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VALVE LEGEND



FOR INFORMATION ONLY
RECORD DRAWING

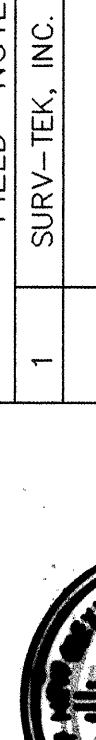
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

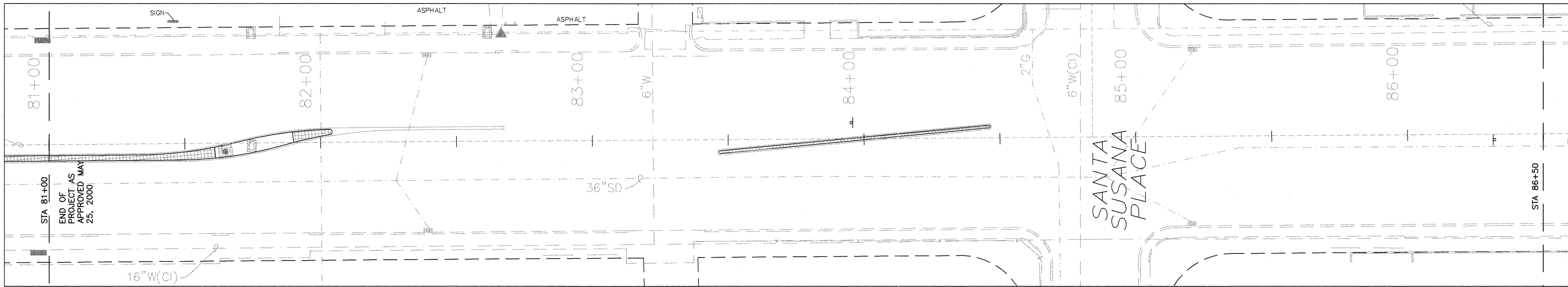
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
IRRIGATION PLAN STA 69+50.00 TO STA 81+00.00

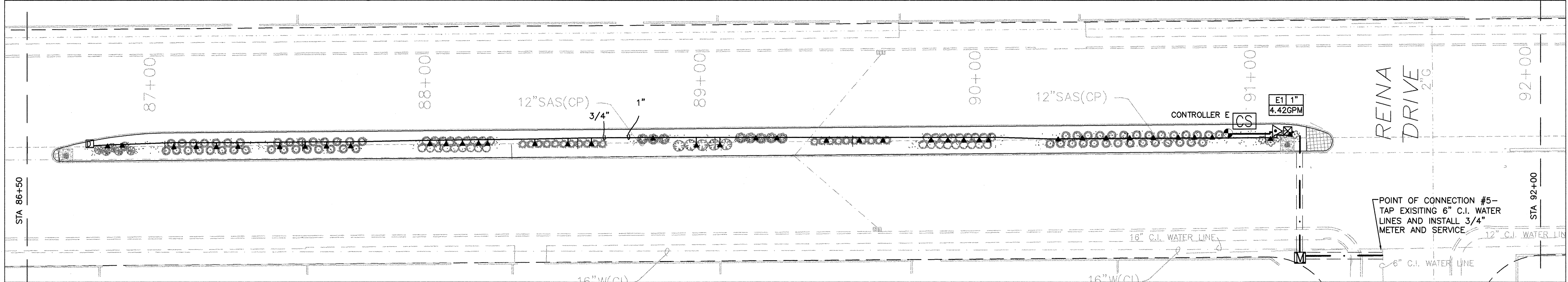
DESIGN REVIEW COMMITTEE: SEP 30 2002
CITY ENGINEER: SEP 30 2002

City Project No. 588292 Zone Map No. G21 Sheet 21 Of 25

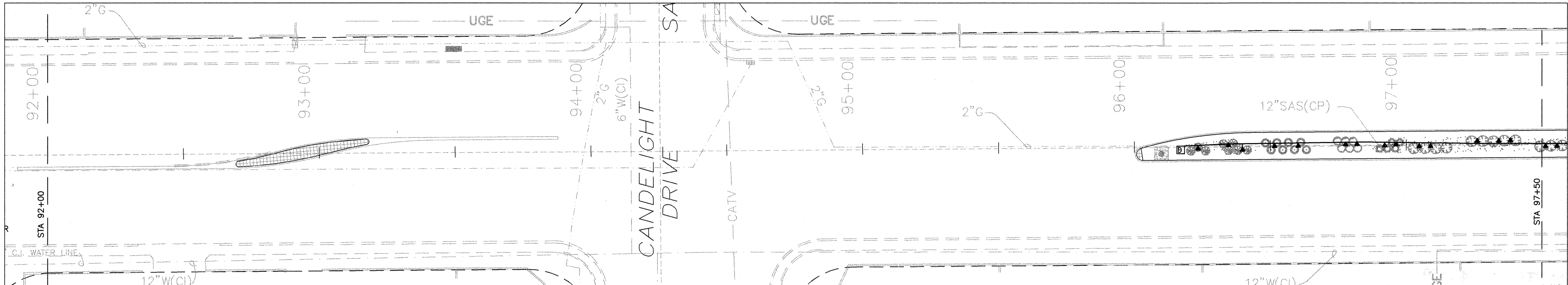
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION					
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								DESIGNED BY		DATE	
								DRAWN BY		DATE	
								CHECKED BY		DATE	
								NO.		DATE	
								MICRO-FILM INFORMATION		RECORDED BY	
								NO.		DATE	



IRRIGATION PLAN STA 81+00.00 TO 86+50.00



IRRIGATION PLAN STA 86+50.00 TO 92+00.00

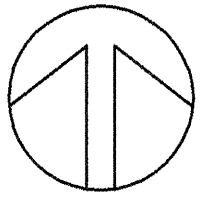


IRRIGATION PLAN STA 92+00.00 TO 97+50.00

NOTE: A SANITARY SEWER LINE RUNS DOWN THE CENTER OF THE MEDIANS. TO AVOID CONFLICTS, MAINLINES SHALL BE LOCATED 3' NORTH OF ISLAND CENTERLINE. LATERALS AND RISERS SHALL BE INSTALLED NORTH OF THE ISLAND CENTERLINE. PLACEMENT OF IRRIGATION EQUIPMENT AND LINES ARE SHOWN FOR GRAPHIC PURPOSES ONLY. ALL EQUIPMENT AND LINES SHALL BE PLACED WITHIN THE MEDIAN ISLANDS PER NOTES AND CITY STANDARDS.

NOTE:
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0 10 20 30 40
SCALE: 1" = 20'-0"

VALVE LEGEND

VALVE AND STATION NO. VALVE SIZE
TOTAL GPM 2.33GPM

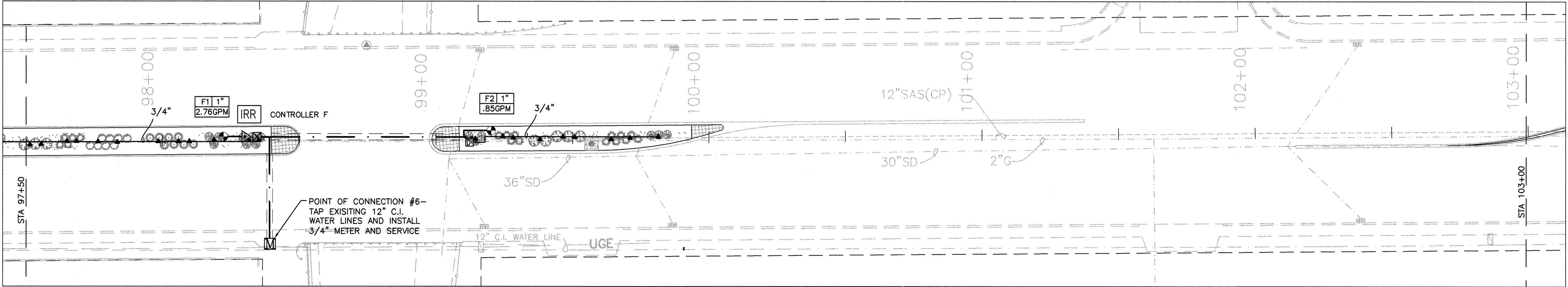
FOR INFORMATION ONLY
RECORD DRAWING

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Consulting Engineering Associates
28 Monroe Street N.E.
Albuquerque New Mexico

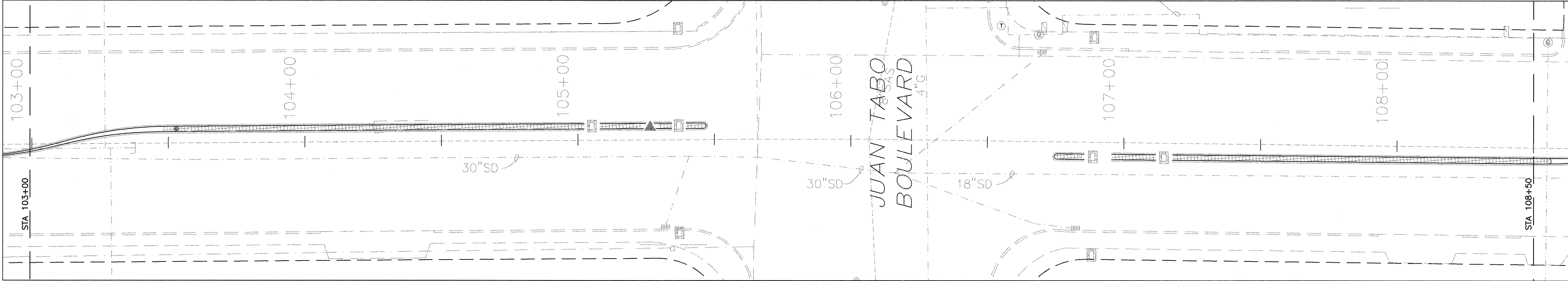
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING IRRIGATION PLAN STA 81+00.00 TO STA 97+50.00	
Design Review Committee APPROVE SEP 3 11 2002 REVIEW COMMITTEE	City Engineer Approval APPROVE SEP 3 11 2002 CITY ENGINEER
City Project No. 588292	Zone Map No. G21
Sheet 22	Of 25

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STANDARD ACS BRASS TABLET STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE.	2/99	FIELD NOTES	1	SEAL	REVISIONS
INSPECTOR'S	DATE						
FIELD	DATE						
VERIFICATION	DATE						
CORRECTED	DATE						
MICRO-FILM INFORMATION							
RECORDED	DATE						
NO.							

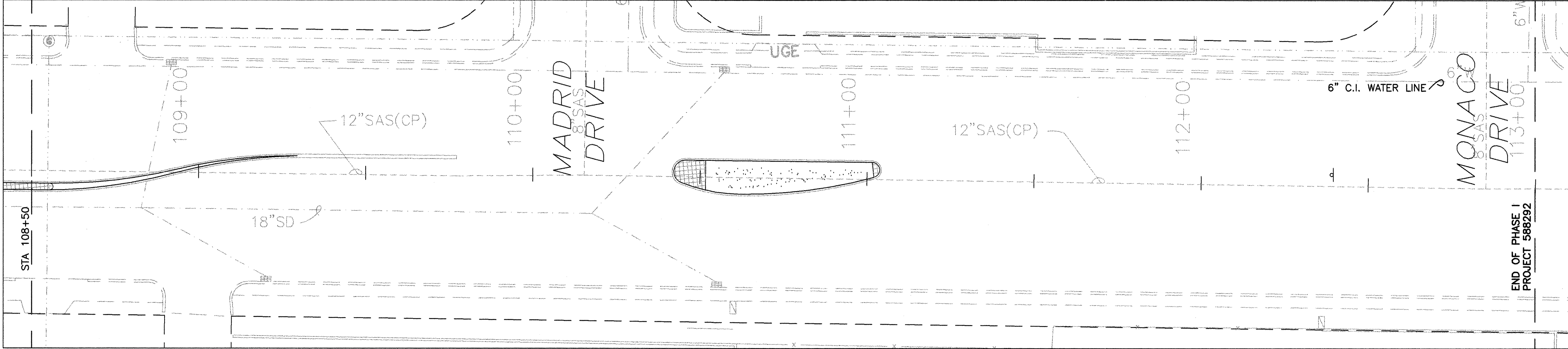




IRRIGATION PLAN STA 97+50.00 TO 103+00.00



IRRIGATION PLAN STA 103+00.00 TO 108+50.00

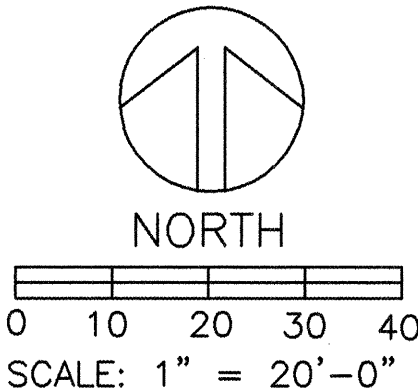


IRRIGATION PLAN STA 108+50.00 TO 113+00.00

NOTE: A SANITARY SEWER LINE RUNS DOWN THE CENTER OF THE MEDIANS. TO AVOID CONFLICTS, MAINLINES SHALL BE LOCATED 3' NORTH OF ISLAND CENTERLINE. LATERALS AND RISERS SHALL BE INSTALLED NORTH OF THE ISLAND CENTERLINE. PLACEMENT OF IRRIGATION EQUIPMENT AND LINES ARE SHOWN FOR GRAPHIC PURPOSES ONLY. ALL EQUIPMENT AND LINES SHALL BE PLACED WITHIN THE MEDIAN ISLANDS PER NOTES AND CITY STANDARDS.

NOTE:
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VALVE LEGEND

VALVE AND STATION NO. 11 1" VALVE SIZE
TOTAL GPM 2.33GPM

FOR INFORMATION ONLY

RECORD DRAWING

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: MEDIAN RECONSTRUCTION & LANDSCAPING IRRIGATION PLAN STA 97+50.00 TO STA 114+00.00	
DESIGNED BY: GRJ/JT	DATE: 9/06/02
DRAWN BY: ML	DATE: 9/06/02
CHECKED BY: GRJ/JT	DATE: 9/06/02
REVISIONS	
NO.	DATE
1	9/03/02
REMARKS	
DESIGN	
APPROVED	
CITY ENGINEER	
City Project No.	Zone Map No.
588292	G21
Sheet	Of
23	25

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	ASLT	STANDARD ACS BRASS TABLET STAMPED "9-C21", DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE.	2/99	FIELD NOTES	1		
STAMPED BY	ASLT	ELEVATION = 5536.00 FEET					
INSPECTOR'S NAME	GRJ						
FIELD VERIFICATION BY	GRJ						
CORRECTED BY	GRJ						
DATE	9/02						
MICRO-FILM INFORMATION							
RECORDED BY							
NO.							

PROJECT NOTES

THE NUMBERING OF POINTS OF CONNECTION, CONTROLLERS AND VALVES ARE CONTINUATIONS FROM THE PREVIOUS PROJECT (FROM WYOMING TO EUBANK) FOR CONSISTENCY AND EASE IN MAINTENANCE

THE LOCATIONS FOR THE POINTS OF CONNECTION ARE SHOWN AS DIRECTED BY THE DEVELOPMENT SERVICES OF THE CITY PUBLIC WORKS DEPARTMENT.

UEC CHARGES SHALL BE PAID BY THE CITY OF ALBUQUERQUE PER THE CITY PROJECT MANAGER'S DIRECTIVE.

PLANTING NOTES

- 1
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING PLANTING OPERATIONS AND SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK.
- 2
- PLANTING INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED.
- 3
- WEED REMOVAL – ALL PLANTING AREAS ARE TO HAVE ALL WEEDS AND COMPETITIVE VEGETATION REMOVED PRIOR TO BEGINNING ANY PREPARATION FOR PLANTING.
- 4
- IN CASE OF A DISCREPANCY IN THE PLANT QUANTITIES SHOWN ON THE PLANT SCHEDULE AND THOSE ILLUSTRATED ON THE PLANTING PLAN, THE QUANTITIES ON THE PLANTING PLAN SHALL GOVERN. THE BOTANICAL NAME WILL TAKE PRECEDENCE OVER THE COMMON NAME IF A DISCREPANCY OCCURS.
- 5
- ALL PLANT SPECIMENS OF THE SAME SPECIES SHALL BE MATCHING IN PROPER AND APPROPRIATE SIZE AND CHARACTER AS PER THE AMERICAN NURSERYMEN'S ASSOCIATION STANDARDS.
- 6
- SHRUBS AND ORNAMENTAL GRASSES SHALL BE PLANTED PER CITY OF ALBUQUERQUE STANDARD DRAWING 2718. C.O.A. DWG. 2718 SHALL BE REVISED AS FOLLOWS: a) REFERENCE TO REMOVAL OF EXISTING SOIL AND INSTALLATION OF PLANTING SOIL MIXTURE SHALL BE DELETED. PRIOR TO PLANTING THE CONTRACTOR SHALL INSTALL 4" DEPTH OF RIO GRAND COMPOST AVAILABLE FROM WESTERN ORGANICS, OR APPROVED EQUAL , THROUGHOUT THE PLANTING AREA AND SHALL ROTOTILL TO A TOTAL MINIMUM DEPTHS OF 10". BACKFILL AT SHRUBS WILL REQUIRE NO ADDITIONAL AMENDMENTS. b) DELETE REFERENCES TO BARK MULCH; ADD CRUSHER FINES/GRAVEL MULCH. c) ADJUST SETTING HEIGHT/ LEVEL OF SHRUBS, PERENNIALS AND GRASSES SO THAT THE TOP OF THE ROOTBALL WILL BE COVERED BY 1" MAXIMUM DEPTH OF MULCH.
- 7
- ALL PLANTING AREAS SHALL BE COVERED WITH MULCH. SEE PLANS AND KEYED NOTES FOR TYPE OF MULCH REQUIRED.
- 8
- ALL AREAS MULCHED WITH CRUSHER FINES SHALL RECEIVE RECLAMATION SEEDING (SEE TABLE BELOW FOR MIXTURE). SEEDING SHALL BE IN ACCORDANCE WITH THE CITY SPECIFICATION FOR BROADCAST SEEDING (1011.5.4).
- 9
- FOR SECTION ACROSS MEDIAN SEE DETAIL A/25.

RANGE: MINIMUM 0.80%
RANGE: MAXIMUM 3.27%

IRRIGATION NOTES

- 1
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING INSTALLATION, AND SHALL NOTIFY CITY'S PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK.
- 2
- THE IRRIGATION LAYOUT SHOWN IS SCHEMATIC. ACTUAL INSTALLATION MAY VARY SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS WHICH SEEM TO WARRANT SUBSTANTIAL DEVIATION FROM THE PLANS.
- 3
- STATIC WATER PRESSURE AT THE SITE VARIES ALONG THE +/- 2 MILE LENGTH (RANGES FROM 100 TO 40 PSI). VERIFY PRIOR TO BEGINNING IRRIGATION WORK AT EACH ISLAND. REQUIRED DESIGN/OPERATING PRESSURE AT EMITTERS SHALL BE AS INDICATED ON IRRIGATION LEGEND.
- 4
- ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS. UNLESS OTHERWISE NOTED.
- 5
- SLEEVING – ALL IRRIGATION LINES BENEATH PAVING OR OTHER RIGID STRUCTURES SHALL BE LOCATED WITHIN A PVC CLASS 200 SLEEVE. ALL SLEEVES SHALL EXTEND A MINIMUM OF 1'-0" BEYOND THE PAVING. THE SLEEVE SIZE FOR THE IRRIGATION LINE SHALL BE A MINIMUM OF 2 SIZES LARGER THAN THE LINE SIZE. 24-VOLT WIRE SHALL BE IN A COMMON TRENCH WITH THE MAINLINE AND SHALL BE SLEEVED UNDER ALL PAVING AND RIGID STRUCTURES IN A 1-1/4" CLASS 200 PVC PIPE.
- 6
- ALL 24-VOLT WIRE SHALL BE MARKED WITH A 4" WIDE YELLOW MARKER TAPE AND MARKED "WARNING ELECTRICAL". LAY MARKER TAPE HORIZONTALLY 6" ABOVE WIRE. MARK ALL 24-VOLT WIRE ENDS WITH 3M STD-09 WIRE MARKER TAPE AT THE VALVE BOX AND CONTROLLER LOCATIONS.
- 7
- VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 12" FROM CURBS OR WALKS.
- 8
- WHERE PROPOSED PIPING CROSSES EXISTING ASPHALT AND/OR CONCRETE WHICH IS NOT BEING REPLACED AS PART OF THIS PROJECT, THE CONTRACTOR SHALL SAW CUT, REMOVE AND PROPERLY DISPOSE OF WASTE. THEN EXCAVATE, INSTALL SLEEVE PIPING, MAINS AND LATERALS, BACKFILL AND COMPACT. CONTRACTOR SHALL THEN REPLACE PAVEMENT AS PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS.
- 9
- THE CONTRACTOR SHALL ADJUST ALL VALVES AND EMITTERS FOR OPTIMUM COVERAGE.
- 10
- CONTRACTOR SHALL EXTEND 120 VOLT AC FROM EXISTING POWER WHERE IDENTIFIED AS AVAILABLE TO PROPOSED CONTROLLERS AND BACKFLOW PREVENTER LOCATIONS. ALL ELECTRICAL WORK SHALL BE PER LOCAL CODES AND N.E.C. STANDARDS. SOLAR CONTROLLERS SHALL BE LOCATED WHERE IDENTIFIED ON PLANS.
- 11
- CONTRACTOR SHALL INSTALL THE 1/4" DRIP TUBING WITH A 4" DEPTH COVERAGE TO THE PLANT. A 3" LENGTH OF TUBING SHALL BE EXPOSED ABOVE THE MULCH. NO EMITTER SHALL REST PAST THE ROOT BALL OF THE PLANT. MAXIMUM LENGTH OF 1/4" TUBING SHALL BE 8". EMITTERS SHALL BE LOCATED ON THE UPHILL SIDE OF PLANTS AND SHALL BE LOCATED ON EITHER SIDE OF PLANT SO THAT WHOLE ROOT AREA OF PLANT WILL GET WATER.
- 12
- CONTRACTOR SHALL INSTALL THE 1/4" DRIP EMITTER TUBING UNDER 4" – 5" DEPTH OF COVERAGE THROUGHOUT PLANTER AREA.
13.
- A MANUAL DRAIN SHALL BE INSTALLED AT THE END (AT THE LOW POINT) OF EACH LATERAL. EACH DRAIN SHALL BE INSTALLED IN A BOX PER DETAIL. DRAIN MAY BE INSTALLED IN A BOX WITH A RISER IN A 10" ROUND BOX IF DRAIN AND RISER ARE IN THE SAME LOCATION.
14.
- LOCATION OF METERS SHOWN IS SCHEMATIC. FINAL LOCATION OF METERS SHALL BE COORDINATED WITH THE COA WATER DEPARTMENT.
15.
- ALL INTERSPEC BOXES SHALL BE TAN IN COLOR.
16.
- PURPOSED CONTROLLER LOCATIONS INDICATED ON THE PLANS ARE APPROXIMATE. ACTUAL LOCATION OF THE CONTROLLERS SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE.
17.
- APPROVED EQUALS MAY BE USED.

RECLAMATION SEEDING		LBS PLS/ACRE
<i>Oryzopsis hymenoides "Paloma"</i>	PALOMA INDIAN RICEGRASS	8.0
<i>Hilaria jamesii "Viva"</i>	VIVA GALLETA GRASS	6.0
<i>Bouteloua curtipendula "Niner"</i>	NINER SIDEOATS GRAMA	4.0
<i>Bouteloua gracilis "Hatchita"</i>	HATCHITA BLUE GRAMA	4.0
<i>Sporobolus cryptandrus</i>	SAND DROPSEED	1.0
<i>Baileya multiradiata</i>	DESERT MARIGOLD	.50
<i>Eschscholzia californica</i>	CALIFORNIA POPPY	2.0
<i>Penstemon ambiguus</i>	SAND PENSTEMON	.50
<i>Oenothera speciosa</i>	MEXICAN EVENING PRIMROSE	.50
		26.5 LBS PLS/ACRE

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RECORD DRAWING

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128 Monroe Street N.E.

Albuquerque New Mexico

DESIGNED BY GRJ/ML

DRAWN BY ML

CHECKED BY GRJ

DATE 9/06/02

DATE 9/06/02

DATE 9/06/02

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: COMANCHE ROAD

MEDIAN RECONSTRUCTION & LANDSCAPING

PLANTING AND IRRIGATION NOTES

Design Review Committee

City Engineer Approval

Mo./Day/Yr.

Mo./Day/Yr.

APPROVE

SEP 30 2002

DESIGN REVIEW COMMITTEE

APPROVE

SEP 30 2002

CITY ENGINEER

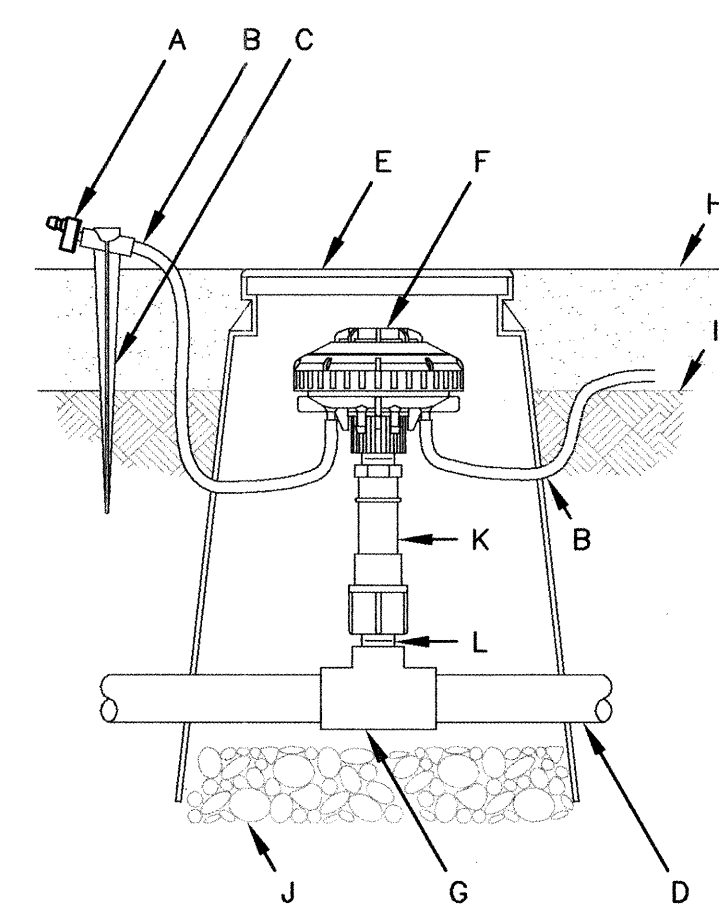
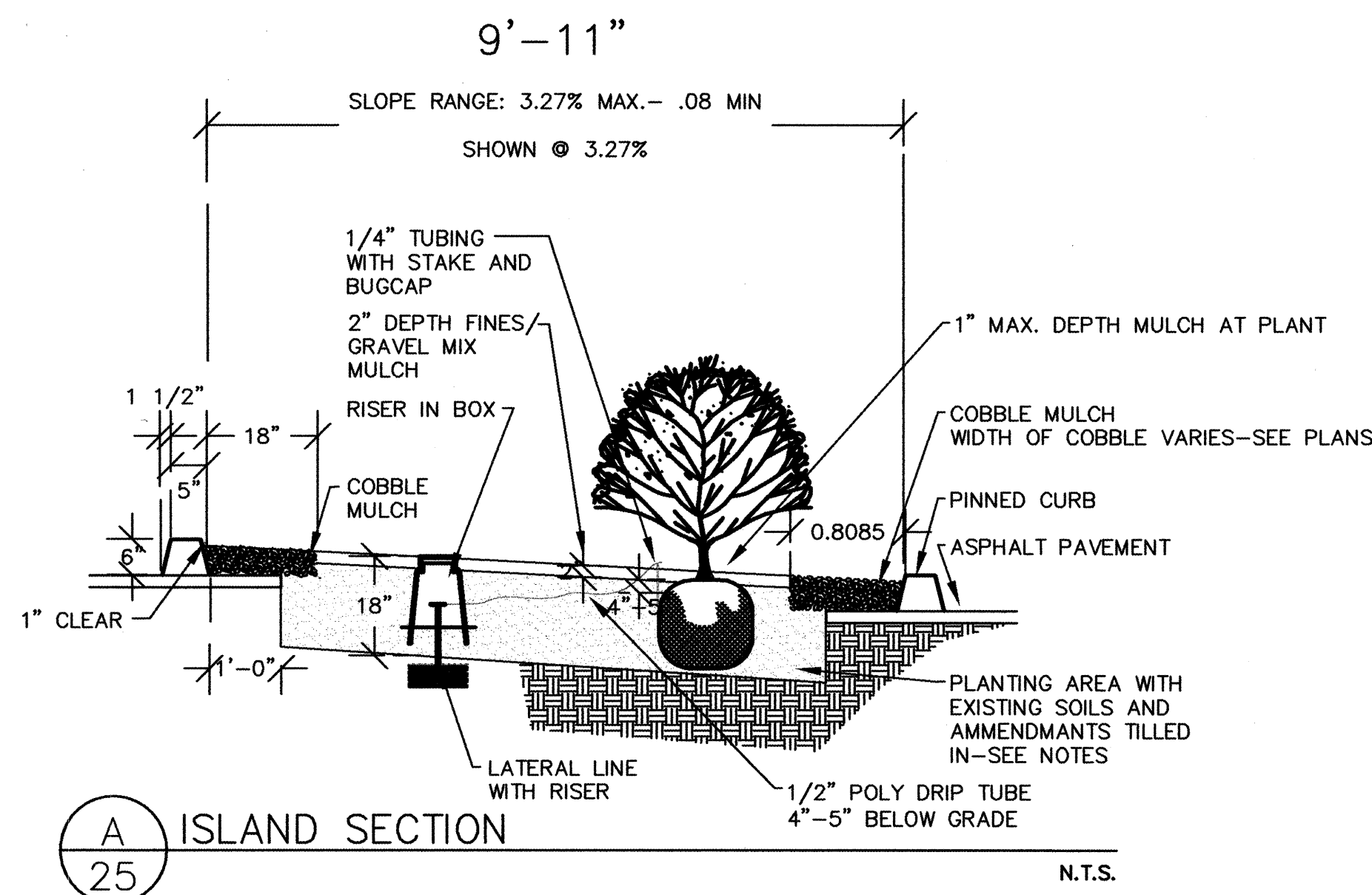
City Project No.

588292

Zone Map No.

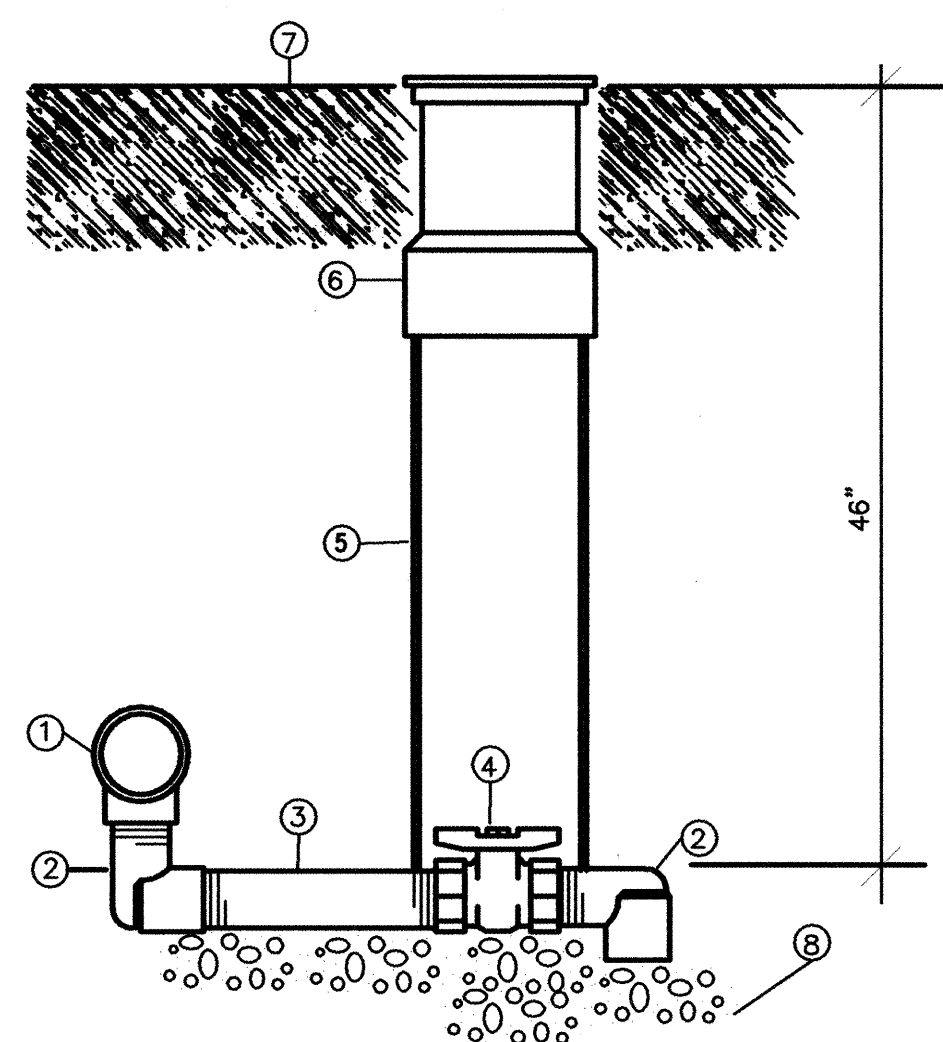
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VALVING LEGEND

	STATION	VALVE NO.	VALVE SIZE	TOTAL GPM
CONTROLLER C	C1		1"	1.57
CONTROLLER D	D1		1"	7.30
	D2		1"	2.1
CONTROLLER E	E1		1"	4.42
CONTROLLER F	F1		1"	2.76
	F2		1"	.85



EMITTER SCHEDULE

THE FOLLOWING PLANTS SHALL RECEIVE THREE
(3) 1 GPH EMITTERS

NEW MEXICO OLIVE
MOUNTAIN MAHOGANY
THREE LEAF SUMAC
ALGERITA

THE FOLLOWING PLANTS SHALL RECEIVE TWO
(2) 1 GPH EMITTERS

POWIS CASTLE
APACHE PLUME
WINTERFAT
LITTLE BEARGRASS
THREADLEAF SAGE
MOONSHINE YARROW
BLUE AVENA GRASS
FOUNTAIN GRASS
AUTUMN GLOW
DWARF MAIDENGRASS
REGAL MIST MUHLY

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL#	DESCRIPTION	DETAIL	SYMBOL	MANUFACTURER/MODEL#	DESCRIPTION	DETAIL
	3/4" WATER METER AND TAP	WATER METER (4 METERS)	COA DWGS 2363		SCHEDULE 40 PVC	1" MAINLINE UNLESS OTHERWISE NOTED ON PLAN	
	FEBCO MODEL 765 1" PRESSURE VACUUM BREAKER IN PVB-1 MANUFACTURED BY HOT BOX, WITH EXPANSION COLLAR AS REQUIRED WITH 1" MASTER METER AND 1" MASTER VALVE IN TAN BROOKS 1730 PB-18 BODY (ABS) BOX TO SIT ON 8"x8" x 16" SOLID CMU BLOCKS AND BALL VALVE IN 7" ROUND TAN BROOKS BOX.	1" PVB IN BOX WITH MASTER METER (FLOW METER) AND 1" MASTER VALVE IN BOX. 1" PVB INSTALLED 12" MINIMUM ABOVE THE HIGHEST EMITTER.	COA DWG 2702-A WITH MASTER METER AND MASTER METER INSTEAD OF BERMAID FLOW METER		SCHEDULE 40 PVC	3/4" LATERAL LINE	
	RAINBIRD 1" 100PEB SERIES ELECTRIC VALVE WITH T80PSOL RAINBIRD POTTED LATCHING SOLENOID AND 1 HMB 25 PSI PRESSURE REGULATOR AND RBY 200 DRIP FILTER IN TAN BROOKS 1730 PB-18 BODY (ABS) BOX WITH 1730 BOLT DOWN COVER. BOX TO SIT ON 8"x8"x16" SOLID CMU BLOCKS.	AUTOMATIC VALVE WITH PRESSURE REGULATOR AND DRIP FILTER, IN BOX.	COA DWG 2703		CLASS 200 PVC SLEEVE	SLEEVE SIZE 2 SIZES LARGER THAN PIPE BEING SLEEVED.	
	1/2" SCHEDULE 80 NIPPLE RISER - LENGTH AS REQUIRED, WITH RAINBIRD XBD-80 XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE IN 10" ROUND TAN BROOKS BOX WITH CAP.	RISER WITH CHECK VALVE AT BASE AND POLY TUBING, IN BOX (CHECK VALVE SHALL BE ADJUSTED AS REQUIRED TO ALLOW PROPER GPH - SEE PLANT SCHEDULE.)	DETAIL B/25		MOTOROLA IRRNET	16 STATION SATELLITE CONTROLLER IN AN INTERSPEC BOX. INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND MUST MEET ALL COA STANDARD REQUIREMENTS FOR CENTRAL IRRIGATION CONTROL SYSTEM. SOLAR PANEL AND ACCESSORIES MUST BE INCLUDED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.	
	GATE/ISOLATION VALVE IN BROOKS BOX	MAINLINE ISOLATION VALVE ASSEMBLY IN BOX; SIZE TO MATCH MAINLINES.	COA DWG. 2707		MOTOROLA SCORPIO V-2 CONTROLLER, IS-S1D-RW-SS-J 8 STATION CONTROLLER.	8 STATION SATELLITE CONTROLLER IN AN INTERSPEC BOX. INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND MUST MEET ALL COA STANDARD REQUIREMENTS CENTRAL IRRIGATION SYSTEM. SOLAR PANEL AND ACCESSORIES MUST BE INCLUDED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.	
					MANUAL BRASS DRAIN VALVE IN 10" TAN ROUND VALVE BOX.	TO BE INSTALLED AT END OF EACH LATERAL LINE.	DETAIL C/25

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DESIGN REVIEW COMMITTEE APPROVED SEP 3 0 2002	CITY ENGINEER APPROVAL APPROVED SEP 3 0 2002
City Project No. 588292	Zone Map No.
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