Federal Emergency Management Agency

Washington, D.C. 20472

'S OFFICE
97 JUL 21 AM 9:40

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 97-06-776P

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103-1293

Community: City of Albuquerque, New Mexico
Community No.: 350002
Panels Affected: 35001C0358 D, 0359 D,
and 0367 D
Effective Date of
This Revision: JUL 16 1997

102-I-A-C

Dear Mayor Chavez:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM) for Bernalillo County, New Mexico and Incorporated Areas (the effective FIRM for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated June 3, 1997, Ms. Susan M. Calongne, P.E., City/County Floodplain Administrator, City of Albuquerque/Bernalillo County, requested that FEMA revise the FIRM to show the effects of the Juan Tabo Detention Basin at the northwest corner of the intersection of Juan Tabo Boulevard and Singing Arrow Avenue. This request follows up on a Conditional Letter of Map Revision issued on July 23, 1996.

All data required to complete our review of this request were submitted with letters from Ms. Calongne.

We have completed our review of the submitted data and the flood data shown on the effective FIRM. We have revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) in the area bordered by Bucking Bronco Trail to the south, Juan Tabo Boulevard to the east, Southern Avenue to the north, and Eubank Boulevard to the west. As a result of the modifications, the Special Flood Hazard Area (SFHA) designated Zone AO, the area that would be inundated by the base flood with average depths between 1 and 3 feet, was removed from the area described above, except for two small ponding areas along Eubank Boulevard, one approximately 600 feet south of Southern Avenue and the other at the intersection of Elizabeth Street. In addition, the SFHA designated Zone AO along Juan Tabo Boulevard between Horseshoe Trail and Southern Avenue was removed, except the area from the intersection of Fawn Trail and Juan Tabo Boulevard to approximately 300 feet south of the intersection. The SFHA increased only along the boundaries of the Juan Tabo Detention Basin. The Juan Tabo Detention Basin is designated Zone A, the area that would be inundated by the base flood, with base flood elevations not determined. The modifications are shown on the enclosed annotated copies of FIRM Panel(s) 35001C0358 D, 0359 D, and 0367 D. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel(s) of the effective FIRM dated September 20, 1996.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified base flood elevations (BFEs):

Location	Existing BFE (feet)*	Modified BFE (feet)*
Intersection of Juan Tabo Boulevard and Singing Arrow Avenue	1	None
Intersection of Juan Tabo Boulevard and Horseshoe Trail	1	None
Intersection of La Puerta Avenue SE and La Vara Drive SE	1	None

*Depth, rounded to the nearest whole foot

Public notification of the proposed modified BFEs will be given in the *Albuquerque Journal* on or about August 5 and August 12, 1997. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Albuquerque Journal*, a citizen may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs presented in this LOMR may itself be modified.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

We will not physically revise and republish the FIRM for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

The basis of this LOMR is, in whole or in part, a stormwater detention basin and appurtenant drainage system project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the stormwater detention basin and drainage system rests with your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed minimum NFIP criteria. These criteria are the minimum and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR. Our records show that your community has met this requirement.

A Consultation Coordination Officer (CCO) has been designated to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. James LeGrotte
Director, Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, Texas 76201-3698
(817) 898-5127

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the CCO for your community at the telephone number cited above. If you have any technical questions regarding this LOMR, please contact Mr. Alan Johnson of our staff in Washington, DC, either by telephone at (202) 646-3403 or by facsimile at (202) 646-4596.

Sincerely,

Frederick H. Sharrocks, Jr., Chief
Hazard Identification Branch
Mitigation Directorate

Enclosure(s)

cc: Ms. Susan M. Calongne, P.E.
City/County Floodplain Administrator
City of Albuquerque/Bernalillo County

Mr. Patrick J. Conley, P.E.
Smith Engineering Company

CHENNAULT ST
PATCH ST
SOMERVELL ST
STR
ST
CHICO ROAD
ROAD
VENTURA ROAD
GENERAL CENTRAL
GENERAL
GENERAL
MOON
ERBBE
ALTEZ
GARCIA

CITY OF ALBUQUERQUE
350002

ZONE AO
(DEPTH 1)
AVENUE
SNYDER
AIR STREET
MOORE
COCHITI
ROAD
STREET
ACOMA
ROAD
ZONE AO
(DEPTH 1)
ZONE X
BELL
AVENUE
ALTEZ
TRUMBULL
AVENUE
SANTA CLARA AVENUE
RM70
GARCIA STREET
SOUTHERN AVENUE
BOULEVARD
CORPORATE LIMITS

APPROXIMATE SCALE IN FEET
500 0 500

AREA REVISED

MILITARY RESERVATION

LIMIT OF DETAILED STUDY

ZONE AO
(DEPTH 1)

ZONE X

ZONE X

ZONE D

EUBANK

JOINS PANEL 0366

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 358 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0358	D
BERNALILLO COUNTY (UNINCORPORATED AREAS)	350001	0358	D

REVISED TO REFLECT LOMR DATED JUL 16 1997

MAP NUMBER
35001C0358 D

EFFECTIVE DATE:
SEPTEMBER 20, 1996

Federal Emergency Management Agency

AREA REVISED

JOINS PANEL 0359

LA ENTRADA AVENUE SE

28

LA VARA DRIVE SE

PUERTA AVENUE

LA GRANADA AVENUE SOUTHEAST

SE

ZONE X

CITY OF ALBUQUERQUE
350002

SOUTHEAST

ZONE AO
(DEPTH 1)

JUAN TABO BOULEVARD

ZONE AO
(DEPTH 1)

FOX LANE

DOE LANE

ZONE X

TRAIL

TRAIL

ROAD

SAN YGNACIO

COUGAR LANE

BADGER LANE

TOMLINSON

POST

YALE

TRAIL

BEAVER TRAIL

TRADING

RAM

HORSESHOE TRAIL

ZONE AO
(DEPTH 1)

ZONE X

APPROXIMATE SCALE IN FEET

500 0 500

BOULEVARD SOUTH

GIBSON BOULEVARD SOUTH

BUCKING BRONCO TRAIL

TRAIL

MAVERICK LANE

COLT LANE

WILD HORSE TRAIL

MUSTANG

A1

ARROYO

5480

5465

5470

ZONE AE

TIJERAS

5460

A5

5455

5450

5445

AR

ZONE AO
(DEPTH 1)

ZONE X

CITY OF ALBUQUERQUE

BERNALILLO COUNTY

ZONE X

BERNALILLO COUNTY
UNINCORPORATED AREAS
350001

ZONE AO
(DEPTH 1)

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 367 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

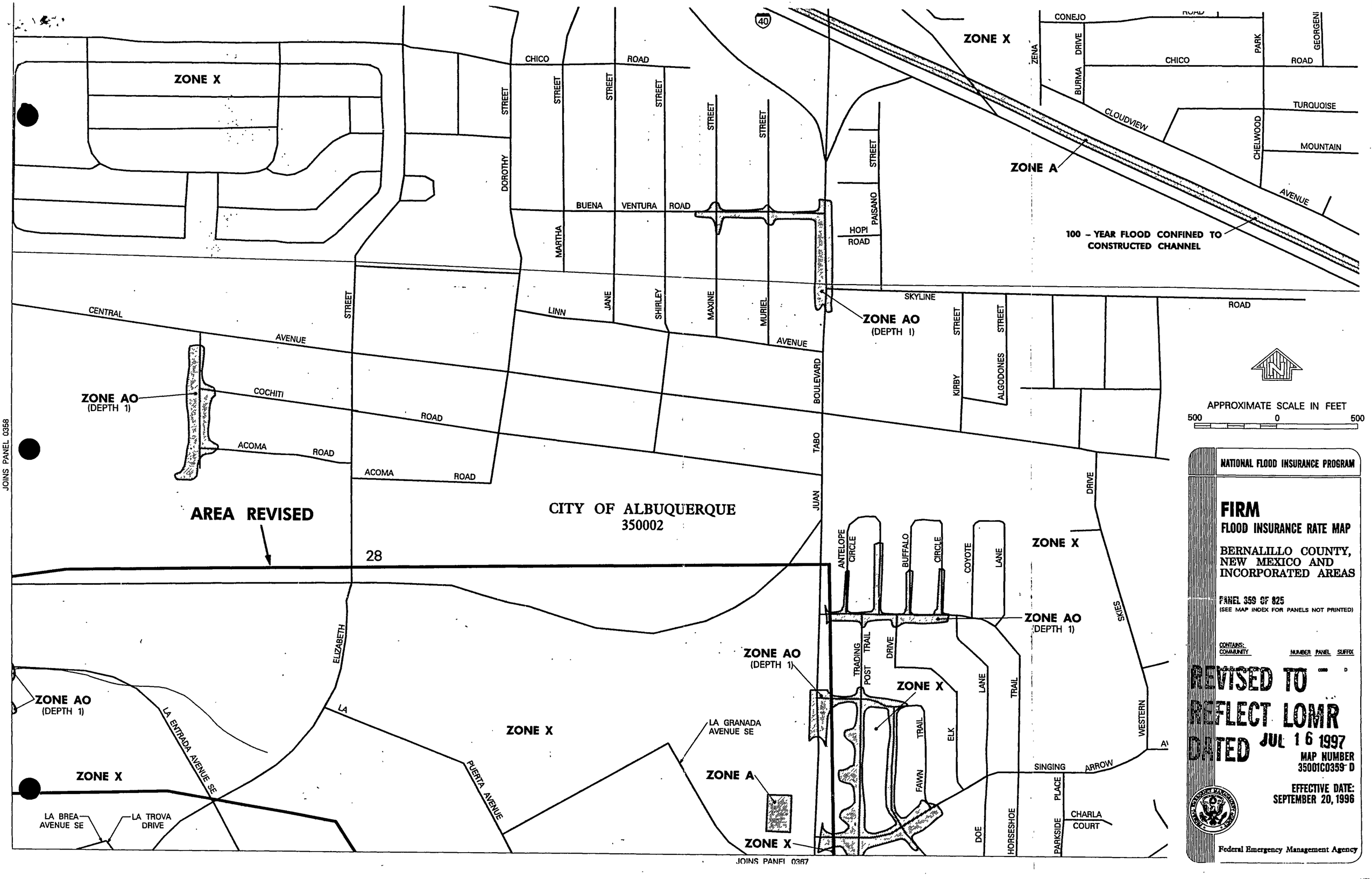
CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0367	D
BERNALILLO, COUNTY OF UNINCORPORATED AREAS	350001	0367	D

REVISED TO REFLECT LOMR DATED JUL 16 1997

MAP NUMBER
35001C0367 D

EFFECTIVE DATE:
SEPTEMBER 20, 1996

Federal Emergency Management Agency



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 359 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
	0359		D

REVISED TO REFLECT LOMR DATED JUL 16 1997

MAP NUMBER
350001C0359 D

EFFECTIVE DATE:
SEPTEMBER 20, 1996

Federal Emergency Management Agency

Federal Emergency Management Agency

Washington, D.C. 20472

June 27, 1997

Ms. Susan M. Calongne, P.E.
City/County Floodplain Administrator
City of Albuquerque/Bernalillo County
P.O. Box 1293
Albuquerque, New Mexico 87103

IN REPLY REFER TO:
Case No.: 97-06-776P
Community: City of Albuquerque, New Mexico
Community No.: 350002

316-ACK.FRQ

Dear Ms. Calongne:

This responds to your request dated June 3, 1997, that the Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM) for Bernalillo County, New Mexico and Incorporated Areas, which is the effective FIRM for your community. Pertinent information about the request is listed below.

Identifier:	Juan Tabo Detention Basin
Flooding Source:	Unnamed Arroyo
FIRM Panel(s) Affected:	0359 and 0367

We have completed an inventory of the items that you submitted. We have received the data and the review and processing fee ($2,300) required to begin a detailed technical review of your request. If additional data are required, we will inform you within 30 days of the date of this letter.

Please direct all questions concerning your request to our Technical Evaluation Contractor at the following address:

Michael Baker Jr., Inc.
3601 Eisenhower Avenue, Suite 600
Alexandria, Virginia 22304

Attention: Mr. Monther S. Madanat
(703) 317-6250

When you write us about your request, you must include the case number referenced above in your letter.

If you have any questions concerning FEMA policy, or the National Flood Insurance Program in general, please contact Mr. Alan Johnson of our staff in Washington, DC, either by telephone at (202) 646-3403 or by facsimile at (202) 646-4596.

Sincerely,

Frederick H. Sharrocks, Jr., Chief
Hazard Identification Branch
Mitigation Directorate

cc: Mr. Patrick J. Conley, P.E.
Smith Engineering Company

CITY OF
Albuquerque

June 3, 1997

Martin J. Chávez, Mayor

Federal Emergency Management Agency
Office of Risk Assessment
500 C Street SW, Room 422
Washington, D.C. 20472

Case Number: 96-06-335R
Community: City of Albuquerque
New Mexico
Community No.: 350002

Attention: Mr. Frederick H. Sharrocks, Jr., Chief
Hazard Identification Branch
Mitigation Directorate

Dear Mr. Sharrocks:

This submittal is in response to the letter from the Federal Emergency Management Agency (FEMA) to the City of Albuquerque dated July 23, 1996 requesting additional data in order for FEMA to prepare a Letter of Map Revision for the Juan Tabo Detention Basin.

FEMA's letter requested the As-built plans, certified by a registered professional engineer, an officially adopted operation and maintenance plan, and Community acknowledgment of the revision request. These have been enclosed with this submittal. The initial review fee of $2300.00, which was also requested in FEMA's letter, was sent separately.

The City has reviewed and approved the hydrologic and hydraulic analyses submitted in the CLOMR request. The City has also approved and accepted the improvements constructed with this project. Our Community would greatly appreciate your prompt response and approval for this Letter of Map Revision. If you should have any questions concerning this submittal, please call me at (505) 924-3982.

Sincerely,

Susan Calongne

Susan M. Calongne, P.E.
City/County Floodplain Administrator

Attachments

c: Mr. Frank Pagano, Branch Chief, FEMA Region VI (letter only)
Patrick J. Conley, P.E., Smith Engineering Co. (letter only)

1084959

CITY OF ALBUQUERQUE

P.O. BOX 1985 ALBUQUERQUE, NEW MEXICO 87103

CHECK NO 1084959

1084959

95-32
1070

SUNWEST BANK OF ALBUQUERQUE N.A.
ALBUQUERQUE, NEW MEXICO 87125-0500
(505) 765-2600

PAY [illegible] THOUSAND THREE HUNDRED DOLLARS AND NO CENTS

TO THE ORDER OF
NATIONAL FLOOD INSURANCE
500 C ST SW ROOM 435
WASHINGTON DC 20472

04/11/97
DATE

[illegible]2,300.00
CHECK AMOUNT

VOID AFTER 180 DAYS

NON-NEGOTIABLE

AUTHORIZED SIGNATURE

1084959

CITY OF ALBUQUERQUE

P.O. BOX 1985 ALBUQUERQUE, NEW MEXICO 87103

DATE 04/11/97

CHECK NO 1084959

VEND 21227911

DATE	INVOICE OR CREDIT MEMO NUMBER	TYPE	DESCRIPTION	REFERENCE NO.	GROSS	AMOUNTS DISCOUNTS	NET
4/7/97	4981139	✓	4981139		2300.00 ✓	0.00	2300.00
	FOR GRANTS						
THE ATTACHED CHECK IS IN PAYMENT FOR ITEMS DESCRIBED ABOVE				TOTAL ▶	2300.00	0.00	2300.00

Smith Engineering Company

A Full Service Engineering Company

April 29, 1997

Susan Calongne, P.E.
City/County Floodplain Administrator
City of Albuquerque, Hydrology Section
Plaza del Sol
Albuquerque, NM 87103

Re: LOMR Application for the Juan Tabo Detention Basin and Storm Drain System

Dear Ms. Calongne:

Smith Engineering Company is pleased to submit two copies of the LOMR application for the Juan Tabo Detention Basin and Storm Drain System for your review. The purpose of this LOMR is to remove the 100-year floodplain that exists on the Manzano Mesa property between Juan Tabo Boulevard and Eubank Boulevard. Also, the 100-year floodplain is reduced or eliminated along Juan Tabo Boulevard. This LOMR is in response to a favorable review of a CLOMR as stated in a letter from FEMA dated July, 23 1996.

It is our understanding that the City will pay the FEMA review fee of $2,300.00. If you have any questions or comments please contact me at 884-0700.

Sincerely,

Stephen Paul Kemna

Stephen P. Kemna, E.I.

6400 Uptown Boulevard N.E., Suite 500E, Albuquerque, New Mexico 87110 Telephone 505/884-0700 Fax 505/884-2376

Albuquerque, NM Roswell, NM Tempe, AZ

LOMR
FOR
JUAN TABO DETENTION BASIN AND STORM DRAIN SYSTEM

APRIL 1997

Prepared by

SMITH ENGINEERING COMPANY
6400 UPTOWN BOULEVARD NE, SUITE 500E
ALBUQUERQUE, NM 87110

SEC No. 195106A

LOMR FOR JUAN TABO DETENTION BASIN AND STORM DRAIN SYSTEM

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3. APPROVED CLOMR RESPONSE LETTER

4. JUAN TABO DETENTION BASIN MAINTENANCE & OPERATION PLAN

5. JUAN TABO DETENTION BASIN - AS-BUILT PLANS

1. INTRODUCTION

The City of Albuquerque (COA), New Mexico, Public Works Department has hired Smith Engineering Company (SEC) to complete the application for a Letter of Map Revision (LOMR) for the Juan Tabo Detention Basin and Storm Drain System. In March 1996, SEC compiled the Conditional Letter of Map Revision (CLOMR) for this project. FEMA sent a response letter, dated July 23, 1996, that approves the CLOMR. There is a copy of the FEMA response letter in Section 3. FEMA's Case Number for this project is 96-06-335R.

The FEMA response letter requires four data items to be completed in order to approve the LOMR. We have listed each of the four data items with an appropriate response to each.

- *An initial fee of $225.* SEC acknowledges that the fee has increase to $2300 since the time of FEMA's letter.

- *As-built plans, certified by a registered professional engineer, of all proposed project elements.* The Juan Tabo Detention Basin has been completed and the as-built plans are located in Section 5.

- *Community acknowledgment of the map revision request.* After SEC has compiled the information for LOMR approval, it will be submitted to the City of Albuquerque's floodplain administrator, Ms. Susan Calongne, P.E. Once approved by Ms. Calongne, she will send the LOMR information to FEMA.

- *An officially adopted maintenance and operation plan for the Juan Tabo Detention Basin.* The maintenance and operation plan is submitted in Section 4.

If there are any questions, please refer to Steve Kemna of Smith Engineering Company. His work phone number is 505-884-0700.

FEDERAL EMERGENCY MANAGEMENT AGENCY **REVISION REQUESTOR AND COMMUNITY OFFICIAL FORM**	*O.M.B. Burden No. 3067-0148* *Expires July 31, 1997*	***FEMA USE ONLY***

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 2.13 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden, to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington, DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

1. OVERVIEW

1. The basis for this revision request is (are): *(check all that apply)*
   - ☒ Physical change
     - ☒ Existing
     - ☒ Proposed (See Attached Explanation)
   - ☒ Improved methodology
   - ☒ Improved data
   - ☐ Floodway revision
   - ☐ Other _____

   Explain _____

2. Flooding Source: Unnamed Arroyo - Shallow Flooding
3. Project Name/Identifier: Juan Tabo Detention Basin and Storm Drain System
4. FEMA zone designations affected: AO (Depth 1)
   (example: A, AH, AO, A1-A30, A99, AE, V, V1-30, VE, B, C, D, X)
5. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	County	State	Map No.	Panel No.	Effective Date
: 480301	Katy,City	Harris, Fort Bend	TX	480301	0005D	02/08/83
480287	Harris County	Harris	TX	48201C	0220G	09/28/90
35002	Albuquerque	Bernalillo	NM	35001C	0359	09/20/96
	(See Attached	Explanation)			0367	09/20/96

6. The area of revision encompasses the following types of flooding, structures, and associated disciplines: *(check all that apply)* (See Attached Explanation)

Types of Flooding	Structures	Disciplines*
☐ Riverine	☒ Channelization (Storm Drain)	☒ Water Resources
☐ Coastal	☐ Levee/Floodwall	☒ Hydrology
☐ Alluvial Fan	☐ Bridge/Culvert	☒ Hydraulics
☒ Shallow Flooding *(e.g. Zones AO and AH)*	☒ Dam (Detention Basin)	☐ Sediment Transport
☐ Lakes	☐ Coastal	☐ Interior Drainage
	☐ Fill	☐ Structural
Affected by wind/wave action	☐ Pump Station	☐ Geotechnical
☐ Yes	☐ None	☐ Land Surveying
☒ No	☐ Channel Relocation	☐ Other *(describe)*
	☐ Excavation	
	☐ Other *(describe)*	

☐ Other(describe)_____ _____ _____

* **Attach completed "Certification by Registered Professional Engineer and/or Land Surveyor" Form for each discipline checked. (Form 2)**

2. FLOODWAY INFORMATION

7. Does the affected flooding source have a floodway designated on the effective FIRM or FBFM? ☐ Yes ☒ No
8. Does the revised floodway delineation differ from that shown on the effective FIRM or FBFM ☐ Yes ☒ No

   If yes, give reason: _____

FORM 1

#1 The purpose of this revision request is to perform a LOMR in response to an approved CLOMR. The existing Juan Tabo detention basin and an existing Juan Tabo storm drain are used to remove the 100-year floodplain from the study area. The detention basin and storm drain were analyzed with the peak flows developed from the City of Albuquerque's AHYMO program. Developed conditions for the 100-year 24-hour event were analyzed for the sizing of the proposed detention basin. (The area to the east of Juan Tabo Boulevard, that contributes runoff to the proposed detention basin, is completely developed.) Existing conditions for the 100-year 24-hour event were analyzed to determine the remaining onsite flow in the undeveloped Manzano Mesa area.

#5 City of Albuquerque has a community number 35002. However, the prefix number for the two FIRM maps related to the area of concern is 35001C.

#6 The area of map revision encompasses a newly excavated detention basin and an existing storm drain.

Attach copy of either a public notice distributed by the community stating the community's intent to revise the floodway or a statement by the community that it has notified all affected property owners and affected adjacent jurisdictions.

N/A

9. Does the State have jurisdiction over the floodway or its adoption by communities participating in the NFIP? ☐ Yes ☐ No

N/A

If yes, attach a copy of a letter notifying the appropriate State agency of the floodway revision and documentation of the approval of the revised floodway by the appropriate State agency.

3. PROPOSED ENCROACHMENTS

10. With floodways:

1A. Does the revision request involve fill, new construction, substantial improvement, or other development in the floodway? ☐ Yes ☐ No N/A

1B. If yes, does the development cause the 100-year water surface elevation to increase at any location by more than 0.000 feet? ☐ Yes ☐ No N/A

11. Without floodways:

2A. Does the revision request involve fill, new construction, substantial improvement, or other development in the 100-year floodplain? ☒ Yes ☐ No

2B. If yes, does the cumulative effect of all development that has occurred since the effective SFHA was originally identified cause the 100-year water surface elevation to increase at any location by more than one foot (*or other surcharge limit if community or state has adopted more stringent criteria)*? ☐ Yes ☒ No

(See Attached Explanation)

If the answer to either Items 1B or 2B is yes, please provide documentation that all requirements of Section 65.12 of the NFIP regulations have been met, regarding evaluation of alternatives, notice to individual legal property owners, concurrence of CEO, and certification that no insurable structures are impacted.

4. REVISION REQUESTOR ACKNOWLEDGMENT

12. Having read NFIP Regulations, 44 CFR Ch. I, parts 59, 60, 61, and 72, I believe that the proposed revision ☒ is ☐ is not in compliance with the requirements of the aforementioned NFIP Regulations.

5. COMMUNITY OFFICIAL ACKNOWLEDGMENT

13. Was this revision request reviewed by the community for compliance with the community's adopted floodplain management ordinances? ☒ Yes ☐ No

14. Does this revision request have the endorsement of the community? ☒ Yes ☐ No

If no to either of the above questions, please explain: _____

Please note that community acknowledgment and /or notification is required for all requests as outlined in Section 65.4 (b) of the NFIP Regulations.

6. OPERATION AND MAINTENANCE

15. Does the physical change involve a flood control structure (e.g., levees, floodwalls, channelization, basins, dams)? ☒ Yes ☐ No

If yes, please provide the following information for each of the new flood control structures:

A. Inspection of the flood control project will be conducted periodically by The City of Albuquerque (entity)

_____ with a maximum interval of 12 months between inspections.

B. Based on the results of scheduled periodic inspections, appropriate maintenance of the flood control facilities will be conducted by The City of Albuquerque (entity)

to ensure the integrity and degree of flood protection of the structure.

C. A formal plan of operation, including documentation of the flood warning system, specific actions and assignments of responsibility by individual name or title, and provisions for testing the plan at intervals not less than one year, ☒ has ☐ has not been prepared for the flood control structure. ~~(See Attached Appendix~~ B)

FORM 1

#11-2B The existing Juan Tabo detention basin and existing Juan Tabo storm drain will remove most of the 100-year floodplain in Juan Tabo Boulevard and within the Manzano Mesa property.

D. The community is willing to assume responsibility for ☑ performing ☐ overseeing compliance with the maintenance and operation plans of the Juan Tabo Detention Basin and Storm Drain
(Name)

flood control structure. If not performed promptly by an owner other than the community, the community will provide the necessary services without cost to the Federal government.

Attach operation and maintenance plans (operation & maintenance will follow standard City of Albuquerque procedures)

7. REQUESTED RESPONSE FROM FEMA

16. After examining the pertinent NFIP regulations and reviewing the document entitled "Appeals, Revisions, and Amendments to Flood Insurance Maps: A guide for Community Officials," dated January 1990, this request is for a:

_____a. CLOMR . A letter from FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision *(LOMR or PMR)*, or proposed hydrology changes *(see 44 CFR Ch. I, Parts 60, 65, and 72)*.

X b. LOMR A letter from FEMA officially revising the current NFIP map to show changes to floodplains, floodways, or flood elevations. LOMRs typically depict decreased flood hazards. *(See 44 CFR Ch. I Parts 60 and 65.)*

_____c. PMR A reprinted NFIP map incorporating changes to floodplains, floodways, or flood elevations. Because of the time and cost involved to change, reprint, and redistribute an NFIP map, a PMR is usually processed when a revision reflects increased flood hazards or large-scope changes. *(See 44 CFR Ch. I, Parts 60 and 65.)*

_____d. Other: Describe_____

_____

_____

8. FORMS INCLUDED

Form 2 entitled, "Certification By Registered Professional Engineer and/or Land Surveyor" must be submitted.

The following forms should be included with this request if (check the included forms):

See CLOMR - For Completed Forms

- Hydrologic analysis for flooding source differs from that used to develop FIRM — ☐ Hydrologic Analysis Form (Form 3)
- Hydraulic analysis for riverine flooding differs from that used to develop FIRM — ☐ Riverine Hydraulic Analysis Form (Form 4)
- The request is based on updated topographic information or a revised floodplain or floodway delineation is requested — ☐ Riverine /Coastal Mapping Form (Form 5)
- The request involves any type of channel modification — ☐ Channelization Form (Form 6)
- The request involves new bridge or culvert or revised analysis of an existing bridge or culvert — ☐ Bridge/Culvert Form (Form 7)
- The request involves a new revised levee/floodwall system — ☐ Levee/Floodwall System Analysis Form (Form 8)
- The request involves analysis of coastal flooding — ☐ Coastal Analysis Form (Form 9)
- The request involves coastal structures credited as providing protection from the 100-year flood — ☐ Coastal Structures (Form 10)
- The request involves an existing, proposed, or modified dam — ☐ Dam Form (Form 11)
- The request involves structures credited as providing protection from the 100-year flood on an alluvial fan — ☐ Alluvial Fan Flooding Form (Form 12)

Form 1 Page 4

Loren Meinz and Susan Calongne need to sign this page.

Also, the review fee must be sent to FEMA.

9. INITIAL REVIEW FEE

18. The minimum initial review fee for the appropriate request category has been included. ☒ Yes ☐ No

Initial fee amount: $ 2,300.00

Check or money order only. Make check or money order payable to : **National Flood Insurance Program.** If paying by Visa or Mastercard please refer to the credit card information form which follows this form.

or

19. This request is for a project that is for public benefit and is primarily intended for flood loss reduction to insurable structures in identified flood hazard areas which were in existence prior to the commencement of construction of the flood control project. ☒ Yes ☐ No

or

20. This request is to correct map errors, to include the effects of natural changes within the areas of special flood hazard, or solely to provide more detailed data. ☐ Yes ☐ No

N/A

Note: I understand that my signature indicates that all information submitted in support of this request is correct.

Loren D. Meinz
Signature of Revision Requester

Loren D. Meinz, Civil Engineer
Printed Name and Title of Revision Requester

City of Albuquerque
Public Works Department
Company Name

505-768-3654
Telephone No.

4/30/97
Date

Note: Signature indicates that the community understands, from the revision requester, the impacts of the revision on flooding conditions in the community.

Susan Calongne
Signature of Community Official

Susan Calongne, Floodplain Administrator
Printed Name and Title of Community Official

Albuquerque, New Mexico
Community Name

6-2-97
Date

Does this request impact any other communities? ☐ Yes ☒ No

If yes, attach letters from all affected jurisdictions acknowledging revision request and approving changes to floodway, if applicable.

Note: Although a photograph of physical changes is not required, it may be helpful for FEMA's review.

FEDERAL EMERGENCY MANAGEMENT AGENCY **CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR FORM**	*O.M.B. Burden No. 3067-0148* *Expires July 31, 1997*	*FEMA USE ONLY*

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average . 23 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden, to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington, DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067- 0148), Washington, DC 20503.

1. This certification is in accordance with 44 CFR Ch. I, Section 65.2

2. I am licensed with an expertise in Civil Engineering - Water Resources - Hydrology & hydraulics
[example: water resources *(hydrology, hydraulics, sediment transport, interior drainage)** structural, geotechnical, land surveying.]

3. I have 8 years experience in the expertise listed above.

4. I have ☐ prepared ☒ reviewed the attached supporting data and analyses related to my expertise.

5. I ☒ have ☐ have not visited and physically viewed the project.

6. In my opinion, the following analyses and /or designs, is/are being certified:
Hydrology and Hydraulics for the Juan Tabo Detention Basin & Storm Drain System.

7. Base upon the following review, the modifications in place have been constructed in general accordance with plans and specifications. (Juan Tabo Storm Drain)

Basis for above statement: (check all that apply)

a. ☐ Viewed all phases of actual construction.

b. ☒ Compared plans and specifications with as-built survey information.

c. ☒ Examined plans and specifications and compared with completed projects.

d. ☐ Other _____

8. All information submitted in support of this request is correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name: Patrick J. Conley, P.E.
(please print or type)

Title: Civil Engineer, Smith Engineering Company
(please print or type)

Registration No. 10141 Expiration Date: December 1997

State New Mexico

Type of License Registered Professional Engineer

Signature

4/28/97
Date

PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER

Seal
(Optional)

*Specify Subdiscipline

Note: Insert not applicable (N/A) when statement does not apply.

3

Federal Emergency Management Agency

Washington, D.C. 20472

RECEIVED

JUL 23 1996

JUL 29 1996

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 96-06-335R

SEC

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

Community: City of Albuquerque, New Mexico
Community No.: 350002

104

Dear Mayor Chavez:

This responds to a facsimile dated June 6, 1996, from Mr. Steve P. Kemna, Smith Engineering Company, to the Federal Emergency Management Agency (FEMA) regarding the effective Flood Insurance Rate Map (FIRM) for the City of Albuquerque, New Mexico. With his facsimile, Mr. Kemna provided additional information to support an April 16, 1996, request for a Conditional Letter of Map Revision (CLOMR) from Ms. Susan M. Calongne, P.E., City/County Floodplain Administrator, City of Albuquerque. Ms. Calongne requested that FEMA evaluate the effects that the proposed Juan Tabo Detention Basin at the northwest corner of the intersection of Juan Tabo Boulevard and Singing Arrow Avenue would have on the effective FIRM. This request also includes the existing Juan Tabo Storm Drain System along Juan Tabo Boulevard from the outfall at Tijeras Arroyo to approximately 600 feet upstream of Singing Arrow Avenue and an updated hydrologic analysis.

All data required by FEMA to evaluate this request were submitted with Ms. Calongne's April 16 letter, and with facsimiles dated June 3 and June 6, 1996, from Mr. Kemna.

We have reviewed the data submitted and the flood data used to prepare the effective FIRM for the City of Albuquerque, New Mexico. The submitted existing conditions AHYMO hydrologic computer model, dated February 27, 1996, based on updated topographic and land use information, was used as the base conditions model in our review of the proposed conditions model for this CLOMR request. We believe that if the proposed project is constructed as shown on the preliminary construction plans entitled "Juan Tabo Detention Basin," Sheets 1 through 6, and as described in the report entitled "Juan Tabo Detention Basin and Storm Drain System," both prepared by Smith Engineering Company, and dated March 1996, the floodplain boundaries of a flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) will be delineated as shown on the topographic work map entitled "Revised Flood Insurance Rate Map," prepared by Smith Engineering Company, dated March 1, 1996, and Page 5 of the June 3 facsimile from Mr. Kemna.

As a result of the proposed Juan Tabo Detention Basin and the existing Juan Tabo Storm Drain System, the Special Flood Hazard Area (SFHA) designated Zone AO, an area inundated by the base flood with average depths between 1 and 3 feet, and no base flood elevations (BFEs) determined, along Juan Tabo Boulevard between Horseshoe Trail (southern intersection) and Southern Avenue will be removed except from approximately 600 feet north of Singing Arrow Avenue to Fawn Street. In addition, the Zone AO SFHAs shown on the effective FIRM west of Juan Tabo Boulevard, north of Bucking Bronco Road, south of Southern Avenue, and east of Eubank Boulevard will be removed except for a small ponding area along Eubank Boulevard approximately 600 feet south of Southern Avenue. Ponding Area 23 will not be affected.

Upon completion of the project, your community may submit the data listed below and request that we make a final determination on revising the effective FIRM.

- An initial fee of $225, which represents the minimum charges associated with a request of this type, must be submitted before we can process your revision request. Payment of this fee shall be made in the form of a check or money order in U.S. funds to the National Flood Insurance Program (NFIP), or by credit card payment. The payment must be forwarded to the following address:

Federal Emergency Management Agency
Fee-Collection System Administrator
P.O. Box 3173
Merrifield, Virginia 22116-3173

- As-built plans, certified by a registered professional engineer, of all proposed project elements

- Community acknowledgment of the map revision request

- An officially adopted maintenance and operation plan for the Juan Tabo Detention Basin. This plan, which may be in the form of a written statement from the community Chief Executive Officer, an ordinance, or other legislation, must describe the nature of the maintenance activities, the frequency with which they will be performed, and the title of the local community official who will be responsible for ensuring that the maintenance activities are accomplished.

After receiving appropriate documentation to show that the project has been completed, FEMA will initiate a revision to the FIRM. Because the BFEs would change as a result of this project, a 90-day appeal period would be initiated, during which community officials and interested persons may appeal the revised BFEs based on scientific or technical data.

The basis of this CLOMR is, in whole or in part, a proposed storm drain system project. Paragraph 60.3(b)(7) of the NFIP regulations requires that communities "assure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained." This provision is incorporated into your community's existing floodplain management regulations. Consequently, your community must agree to accept responsibility for the maintenance of the storm drain system before allowing its construction.

This response to Ms. Calongne's request is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all proposed floodplain development, including this request, and for assuring that the necessary permits required by Federal or State law have been received. State and community officials, based on knowledge of local conditions and in the interest of human safety, may set higher standards for construction or may limit development in floodplain areas. If the State of New Mexico or your community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in Denton, Texas, at (817) 898-5127. If you have any technical questions regarding this CLOMR, please contact Mr. Karl Mohr of our staff in Washington, DC, either by telephone at (202) 646-2770 or by facsimile at (202) 646-4596.

Sincerely,

Michael K. Buckley, P.E., Chief
Hazard Identification Branch
Mitigation Directorate

cc: Ms. Susan M. Calongne, P.E.
City/County Floodplain Administrator
City of Albuquerque

Mr. Patrick J. Conley, P.E.
Smith Engineering Company

CITY OF
Albuquerque

Public Works Department
April 24, 1997

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Federal Emergency Management Agency
P.O. Box 3173
Merrifield, Virginia 22116-3173

The City of Albuquerque, Public Works Department, Storm Drainage Maintenance Division, is responsible for the operation and maintenance of storm drainage systems in the City. The Storm Drainage Maintenance Division has 25 full-time employees, and is equipped to perform maintenance operations for all types of storm drainage facilities. Maintenance operations include sediment removal, pipe cleaning and flushing, pipeline, manhole, inlet repair and construction, concrete channel repair, and vegetation control.

Storm drainage system maintenance activities are on-going throughout the year. Drainage system components are maintained per the following schedule.

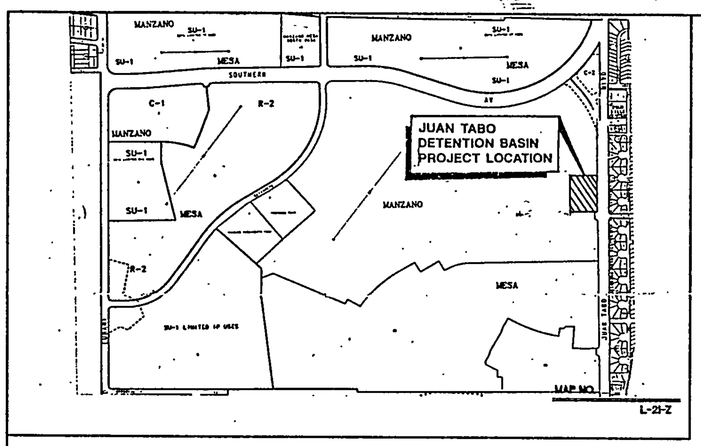
System Component	***Inspection***	***Maintenance***
Pipes, Manholes, Inlets	Annual and following complaints	Pipes, Manholes - Biannual Inlets - Annual
Channels, Arroyos	Annual	Annual, As Required
Detention Basins	Annual and following complaints	Mowing - Annual Sediment Removal - As Req

The Juan Tabo Detention Basin was completed by the Public Works Department, Hydrology Division, March, and will be maintained by the Storm Drainage Maintenance Division.

The Storm Drainage Maintenance Division is supervised by Mr. Glenn Jurgensen, Storm Drainage Superintendent.

Sincerely,

Robert E. Gurule



VICINITY MAP

CITY OF
Albuquerque

CONSTRUCTION PLANS

FOR

CITY OF ALBUQUERQUE

JUAN TABO DETENTION BASIN

(C.O.A. #4790.92)

~~AND~~

~~CENTRAL AVENUE STORM DRAIN~~

(C.O.A. #5188.90)

~~AND~~

~~MANZANO MESA PARK - PHASE 1A~~

(C.O.A. 5018.90)

CALL BEFORE YOU DIG!
STATEWIDE
1-800-321-ALERT
ALBUQUERQUE
260-1990

"RECORD DRAWING"

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR, P.M.C.I. AND THE C.O.A. SURVEYOR. THESE DRAWINGS REFLECT THE CONSTRUCTION AS ACTUALLY ACCOMPLISHED ON THE PROJECT, AS CONSTRUCTED, IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS.

PATRICK J. CONLEY, NMPE 10141 — 4/16/97 DATE

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 4-28-97

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
PROJECT TITLE: JUAN TABO DETENTION BASIN (C.O.A. #4790.92)	
1	TITLE SHEET, VICINITY MAP, SHEET INDEX
2	GENERAL NOTES AND LEGEND
3	PLAN AND PROFILE – SINGING ARROW STATION 10+00 TO 14+00
4	PLAN AND PROFILE – JUAN TABO STATION 10+00 TO 14+00
5	JUAN TABO DETENTION BASIN PLAN
6–8	DRAINAGE DETAILS
9–10	TRAFFIC CONTROL – PHASE I
11–12	TRAFFIC CONTROL – PHASE II
13–14	TRAFFIC CONTROL – PHASE III
PROJECT TITLE: CENTRAL AVE. STORM DRAIN (C.O.A. #5188.90)	
15	TITLE SHEET, VICINITY MAP, SHEET INDEX, GENERAL NOTES AND LEGEND
16	PLAN & PROFILE – FOUR HILLS VILLAGE SHOPPING CENTER STATION 10+00 TO 13+56
17	PLAN & PROFILE – CENTRAL AVE. STATION 13+56 TO 19+12.43
18–19	TRAFFIC CONTROL
MISCELLANEOUS SHEETS: (C.O.A. #4790.92 & #5188.90)	
20	SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS
21	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
22	TYPICAL TRENCHING SECTIONS
⚠ MANZANO MESA PARK - PHASE 1A (C.O.A. #5018.90)	
23	TITLE SHEET, VICINITY MAP, SHEET INDEX
24–24	PLAT SURVEY AND VICINITY MAP
25–25	SITE/LANDSCAPE PLAN
26–26	GRADING AND DRAINAGE PLAN
27–27	ENLARGED BALL FIELD PLANS
28–28	SITE DETAILS
29–29	IRRIGATION PLAN

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

See Corresponding Projects 5188.90 and 5018.90

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	ADD SHEETS 23-29	Billy J. Soolsby	1-28-97				
					1/9/97		
					1/9/97		

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER 8/15/96	DRC Chairman	Billy J. Soolsby	9-16-96
	Transportation		9-11-96
	Water/Wastewater		9-6-96
	Hydrology		9-11-96
	Parks		
	Const. Mngmt.		

APPROVED FOR CONSTRUCTION
Billy J. Soolsby 9-16-96
City Engineer Date

City Project No. 4790.92

Sheet 1 of 29

Drawing name: C:\ACAD\PROJECTS\JUANTABO\JT-COV.dwg
Last Modified: Thu Aug 8 11:55:01 1996 by Paul Mckinney
Xrefs Attached: None

1 THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.

2 THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.

3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO.6.

4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.

5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

6 ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.

7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

8 THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY WATER SHUT OFF WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. ALL EXISTING VALVES MAY ONLY BE OPERATED BY COA WATER DIVISION PERSONNEL. REFER TO SECTION 18 OF SPECIFICATIONS.

9 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

10 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

11 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.

12 WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

13 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.

14 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.

15 THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.

16 CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.

17 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.

18 ALL SUBGRADE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTION REQUIRED BY THE SPECIFICATIONS.

19 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.

20 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

21 ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE C.O.A.

22 MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL CONFORM TO C.O.A. STANDARD SPECIFICATIONS. BEDDING MATERIAL SHALL BE CLASS II OR III UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.

23 MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL CONFORM TO THE C.O.A. STANDARD SPECIFICATIONS. BEDDING MATERIAL SHALL BE CLASS I, II, OR III.

24 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.

25 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.

26 ALL REINFORCING STEEL TO BE GRADE 60.

27 ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.

28 ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.

29 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

30 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT AND STRIPING WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PAVING AND ANY FILL REQUIRED FOR PLACEMENT OF THE TEMPORARY PAVING. THIS WORK IS CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

31 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.

32 THE CONTRACTOR WILL CONTACT THE CITY OF ALBUQUERQUE TRAFFIC DIVISION 857-8680, ONE (1) WEEK IN ADVANCE OF ANY CHANGES REQUIRED IN THE TRAFFIC SIGNALIZATION OF THIS PROJECT. ALL WORK ASSOCIATED WITH NEW TRAFFIC SIGNALIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

33 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

34 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

35 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.

36 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.

37 ALL CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

38 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE SPECIFICATIONS.

39 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.

40 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.

41 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

42 STATIONS OF STORM DRAIN INLETS ARE TO THE FLOWLINE OF GRATE. ALL STORM DRAIN INLETS WILL BE TYPE "A" UNLESS OTHERWISE NOTED ON THE PLANS.

43 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.

44 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.

45 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.

46 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.

47 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.

48 ALL RIP-RAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL CONFORMING TO THE SIZE AND MATERIAL PROPERTY REQUIREMENTS SET FORTH IN THE C.O.A. STANDARD SPECIFICATIONS. NO BROKEN CONCRETE OR RUBBLE WILL BE ACCEPTED.

49 PNM REQUESTS A MINIMUM OF 72 HOURS NOTICE PRIOR TO SUPPORT WORK BEING REQUIRED.

50 CONTACT PNM REPRESENTATIVE MIKE DAVIS AT 241-3307 A MINIMUM OF ONE (1) WEEK PRIOR TO OUTAGES AND CABLE SUPPORT REQUIREMENTS.

NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER
- EXISTING BLOCK WALL
- EXISTING WATER VALVE
- NEW WATER VALVE
- EXISTING CATCH BASIN
- NEW CATCH BASIN
- W.M. EXISTING WATER METER
- EXISTING MANHOLE
- NEW MANHOLE
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- POTHOLE
- EXISTING TRAFFIC LIGHT
- DRIVE PAD
- EXISTING ASPHALT PAVEMENT
- C.O.A. CITY OF ALBUQUERQUE
- EXISTING CONCRETE PAVEMENT
- 5287.5 EXISTING SPOT ELEVATION
- 75 EXISTING CONTOUR LINE
- EXISTING TREE
- EXISTING MANHOLE
- NEW MANHOLE
- NEW WATER LINE
- NEW STORM DRAIN
- CENTERLINE
- NEW PAVEMENT AND CURB-AND-GUTTER

AS BUILT INFORMATION
CONTRACTOR [illegible]
SIGNED BY [illegible] DATE
INSPECTED BY [illegible] DATE
AS-BUILTS ACCEPTANCE BY [illegible] DATE
VERIFICATION BY [illegible] DATE
REVIEWED BY [illegible] DATE

BENCH MARKS
C.O.A. BENCHMARK "L-21(8)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999644849

SURVEY INFORMATION
FIELD NOTES
NO. 11599 | BY STEPHEN JAMES TOLER | DATE 1/96
SURVEYING
CONTROL INC.

ENGINEER'S SEAL
PATRICK J. CONLEY, NEW MEXICO, 10141, REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY TVD DATE 3/96
DRAWN BY RAN / JCS DATE 3/96
CHECKED BY PJC DATE 3/96

195106-SE1
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
GENERAL NOTES AND LEGEND

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92
Zone Map No. L-21
Sheet 2 Of 29

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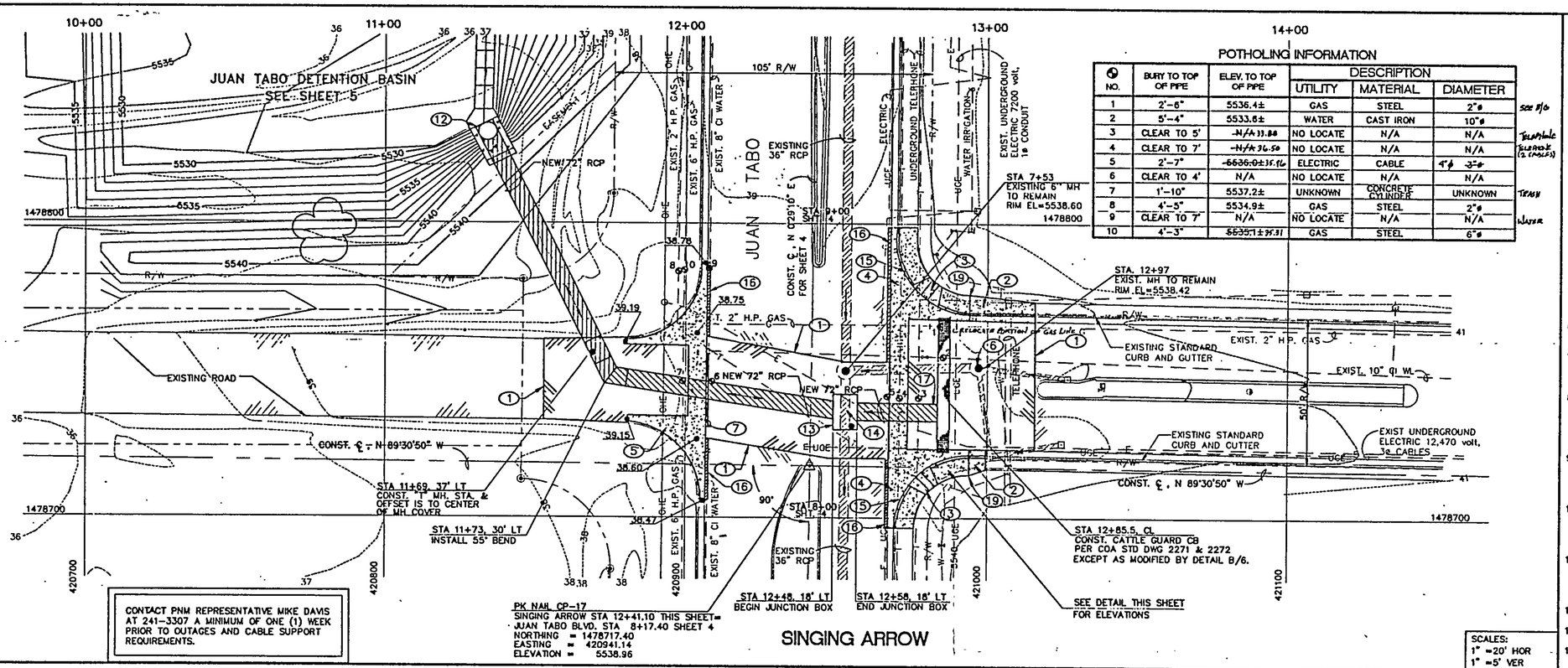

POTHOLING INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. TO TOP OF PIPE	DESCRIPTION			
			UTILITY	MATERIAL	DIAMETER	
1	2'-6"	5536.4±	GAS	STEEL	2"ø	see B/6
2	5'-4"	5533.6±	WATER	CAST IRON	10"ø	
3	CLEAR TO 5'	~~-N/A 33.88~~	NO LOCATE	N/A	N/A	Telephone
4	CLEAR TO 7'	~~-N/A 36.50~~	NO LOCATE	N/A	N/A	Telephone (2 cables)
5	2'-7"	~~5636.0± 35.76~~	ELECTRIC	CABLE	4"ø 3ø	
6	CLEAR TO 4'	N/A	NO LOCATE	N/A	N/A	
7	1'-10"	5537.2±	UNKNOWN	CONCRETE CYLINDER	UNKNOWN	Trash
8	4'-5"	5534.9±	GAS	STEEL	2"ø	
9	CLEAR TO 7'	N/A	NO LOCATE	N/A	N/A	Water
10	4'-3"	~~5535.1± 35.91~~	GAS	STEEL	6"ø	

KEYED NOTES:

1. PAYMENT LIMITS FOR ASPHALT REMOVAL AND REPLACEMENT, MATCH EXISTING GRADES, EXCEPT AS OTHERWISE SHOWN. SAWCUT ASPHALT PRIOR TO PLACING NEW ROAD SECTION. SEE DETAIL C/8.
2. REMOVE AND REPLACE EXISTING SIDEWALK AND WHEEL CHAIR RAMP. MATCH EXISTING SIDEWALK GRADE AT REMOVAL LINE.
3. CONSTRUCT TYPE M WHEEL CHAIR RAMP PER COA STD DWG 2441, BUILD WHEEL CHAIR RAMP UTILIZING INTEGRAL CURB PER ALTERNATE DETAIL SECTION AA AS REQUIRED TO MATCH EXISTING LANDSCAPING GRADE.
4. REMOVE AND REPLACE VALLEY GUTTER PER COA STD DWG 2420. MATCH EXISTING ROAD GRADE ON WEST SIDE OF VALLEY GUTTER. SLOPE NEW VALLEY GUTTER EAST TO GRADES SHOWN.
5. REMOVE AND REPLACE EXISTING VALLEY GUTTER PER COA STD DWG 2420. MATCH EXISTING GRADES.
6. ADJUST EXISTING MANHOLE TO NEW PAVEMENT GRADE.
7. REMOVE AND REPLACE APPROXIMATELY 20-LF OF 8-INCH CAST IRON WATERLINE. SEE DETAIL C/6.
8. CONSTRUCT 12-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 12+87, 3' LT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 12+99, 4' LT).
9. CONSTRUCT 16-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 13+00, 53' LT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 13+16, 53' LT).
10. CONSTRUCT 8-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 12+70, 13' RT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 12+67, 20' RT).
11. CONSTRUCT 8-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 12+69, 73' LT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 12+68, 81' LT).
12. CONSTRUCT OUTLET PER DETAIL A/7.
13. CONSTRUCT NEW JUNCTION BOX. SEE DETAIL A/6.
14. REMOVE AND DISPOSE OF APPROXIMATELY 12-LF OF EXISTING 36-INCH RCP FOR INSTALLATION OF THE NEW JUNCTION BOX.
15. CONSTRUCT NEW CURB AND GUTTER TO MATCH EXISTING RETURN RADII.
16. REMOVE AND REPLACE ASPHALT 1'-0" FROM VALLEY GUTTER.
17. CONCRETE PIPE SUPPORT COMING FROM CATTLE GUARD PER NOTE "A", COA STD DWG 2101. SUPPORT TO BE A MINIMUM 4' LONG.
18. SHUTOFF WATER VALVES 993 AND 992 AND 651 TO PERFORM WATERLINE WORK.
19. TRANSITION FROM 8-FOOT WIDE TO 4-FOOT WIDE SIDEWALK AT SINGING ARROW STA 12+94.

NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

N
20' 10' 0 20' 40'
SCALE: 1" = 20'

AS BUILT INFORMATION
CONTRACTOR 12/96
VERIFIED BY Gow / Smith DATE
ACCEPTANCE BY Gow / Smith DATE
FIELD LOCATION BY Gow / Smith DATE
DRAWINGS CORRECTED BY Gow DATE

BENCH MARKS
C.O.A. BENCHMARK "L-21(8)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.827 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.417

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999964849

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

SURVEYING CONTROL INC.

ENGINEER'S SEAL
PATRICIA A. LONLEY 10141 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY TVD	DATE 5/96
		DRAWN BY BAC	DATE 5/96
		CHECKED BY PJC	DATE 6/96

Smith Engineering Company
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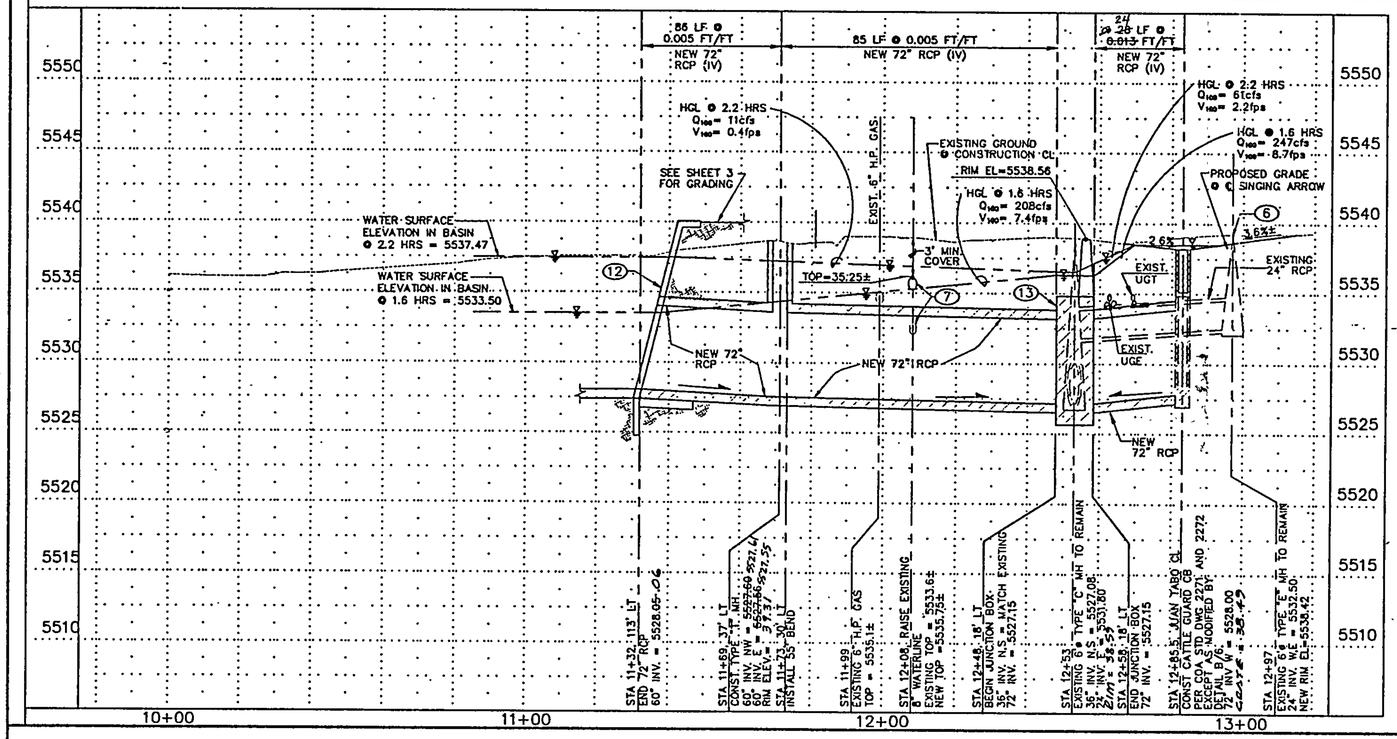
8400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110
195106-SE1

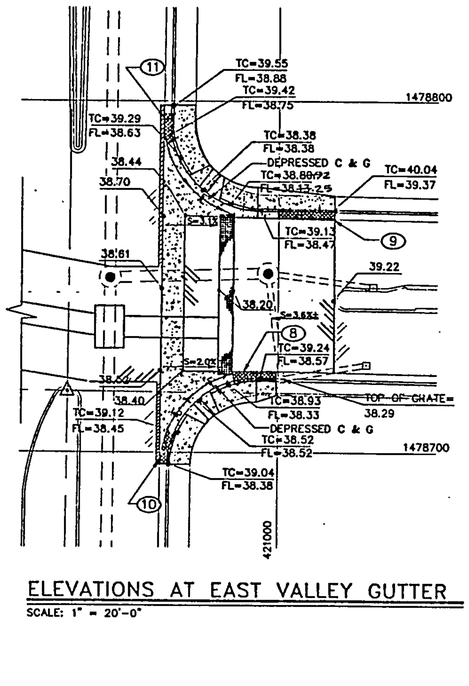
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
PLAN AND PROFILE
SINGING ARROW STROM DRAIN STA 10+00 TO STA 14+00

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 3 of 29





ELEVATIONS AT EAST VALLEY GUTTER
SCALE: 1" = 20'-0"

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Saved on: September 11, 1996 at 9.10 AM
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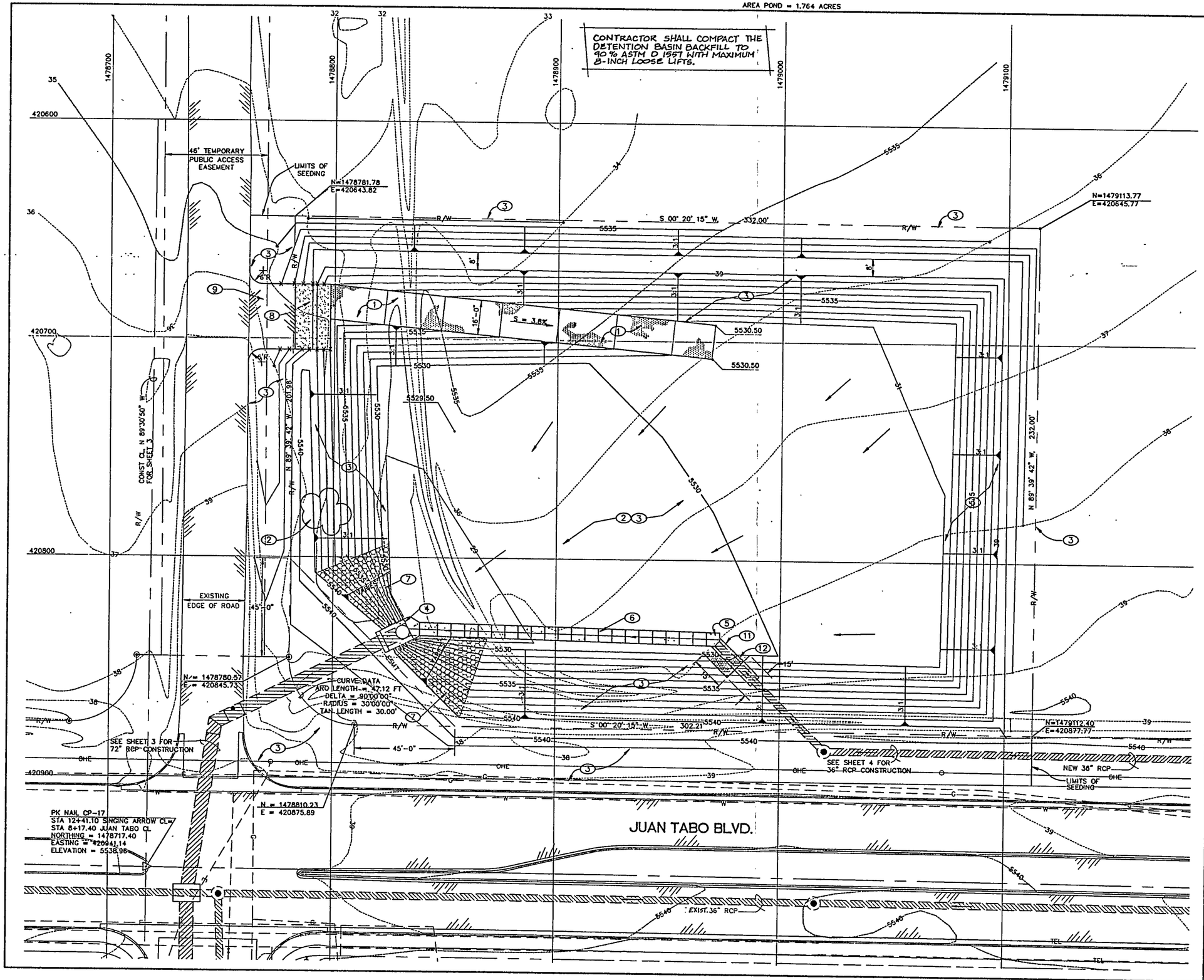
AREA POND = 1.764 ACRES



KEYED NOTES:

1. CONSTRUCT 16-FOOT WIDE ACCESS RAMP FROM EMERGENCY SPILLWAY TO BOTTOM OF BASIN SEE DETAIL D/8.
2. CLEAR AND GRUB AREA WITHIN RIGHT-OF-WAY SHOWN ON THIS SHEET. CLEARING SHALL INCLUDE REMOVAL AND DISPOSAL OF CONCRETE AND ASPHALT RUBBLE, TRASH, TREES, AND BOULDERS.
3. PLACE CLASS "A" NATIVE SEEDING WITHIN THE JUAN TABO DETENTION BASIN RIGHT-OF-WAY AND ALONG SINGING ARROW ROAD AND JUAN TABO BOULEVARD.
4. CONSTRUCT 72" OUTLET PIPE APRON PER DETAIL A/7.
5. CONSTRUCT 36" INLET PIPE CHANNEL PER DETAIL B/8.
6. CONSTRUCT CONCRETE SWALE CHANNEL PER DETAIL C/7.
7. PLACE 6-INCH DIAMETER TYPE VL RIPRAP, 12-INCH THICK, ON BASIN SLOPES LESS THAN 3:1.
8. CONSTRUCT EMERGENCY SPILLWAY PER DETAIL A/8.
9. CONSTRUCT EMERGENCY SPILLWAY ASPHALT APRON PER DETAIL E/8.
10. NOT USED.
11. CONSTRUCT CONCRETE PIPE SUPPORT PER DETAIL B/8.
12. PLACE 6-INCH DIAMETER TYPE VL RIPRAP, 12-INCH THICK, ON FACE OF SLOPE AROUND NEW 36" RCP.

NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

DETENTION POND DATA

100-YEAR MAXIMUM WATER SURFACE ELEVATION = 5537.47

EMERGENCY SPILLWAY ELEVATION = 5537.50

FLOW FROM EMERGENCY SPILLWAY AT ELEVATION 5539.0 = 147 cfs

STAGE – STORAGE

ELEVATION (ft)	STORAGE (ac-ft)
5528.05	0.00
5529.00	0.02
5530.00	0.24
5531.00	0.87
5532.00	1.74
5533.00	2.68
5534.00	3.69
5535.00	4.80
5536.00	6.02
5537.00	7.37
5537.50	8.10
5538.00	8.87
5539.00	10.81

N

20' 10' 0 20' 40'

SCALE: 1" = 20'

AS BUILT INFORMATION
CONTRACTOR: BMCI
WORK STAKED BY: Cass Calvert DATE
ASBUILTING BY: Cass Calvert DATE
FIELD VERIFICATION BY: Cass Calvert DATE
DRAWINGS CORRECTED BY: Cass Calvert DATE

BENCH MARKS
C.O.A. BENCHMARK 7-I-21(81) ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999564849

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

SURVEY INFORMATION

FIELD NOTES BY	DATE
11599 STEPHEN JAMES	1/96
TOLER	
SURVEYING	
CONTROL INC.	

ENGINEER'S SEAL
PATRICK J. CONLEY NEW MEXICO (10141) REGISTERED PROFESSIONAL ENGINEER
8/13/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY TVD	DATE 3/96
		DRAWN BY BAC	DATE 3/96
		CHECKED BY PJC	DATE 3/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
8500 Upsova Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

JUAN TABO DETENTION BASIN PLAN

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER

Last Design Update: No. / Dwg / Yr.

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 5 of 29

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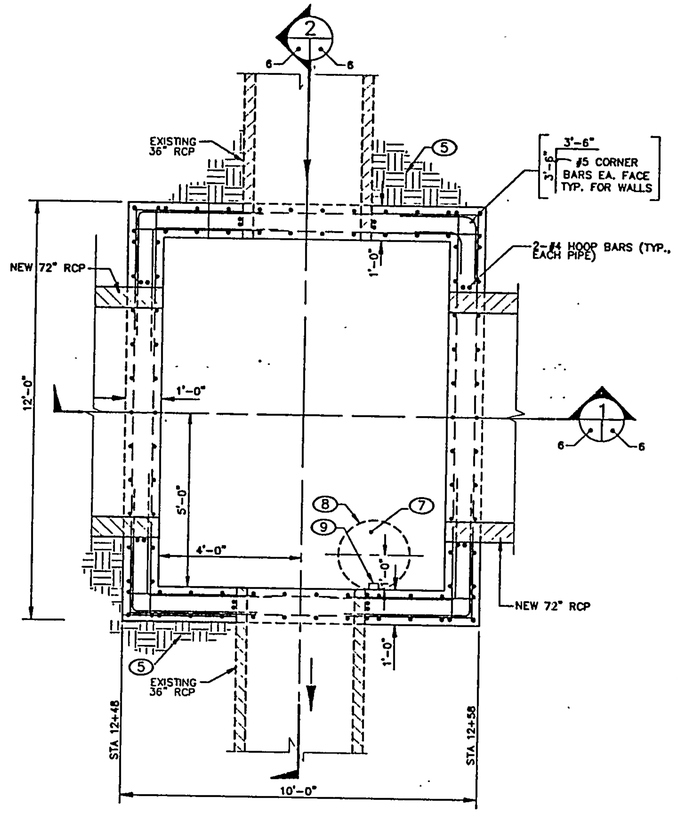
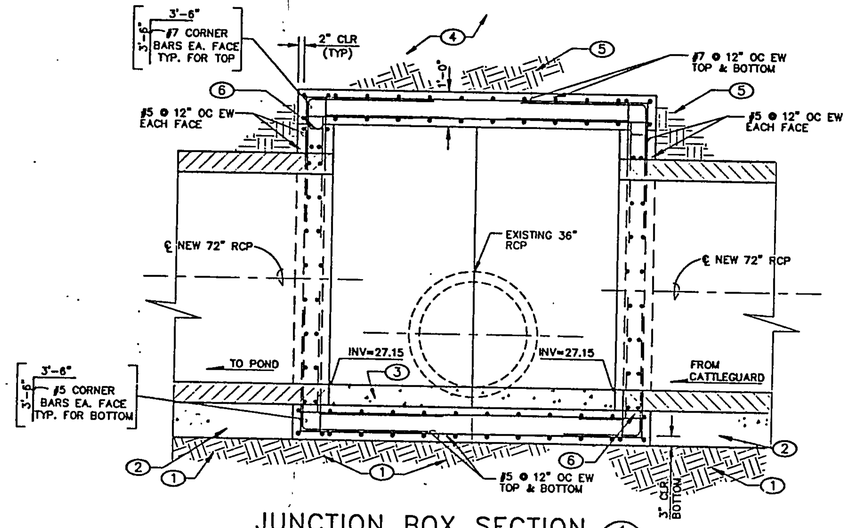
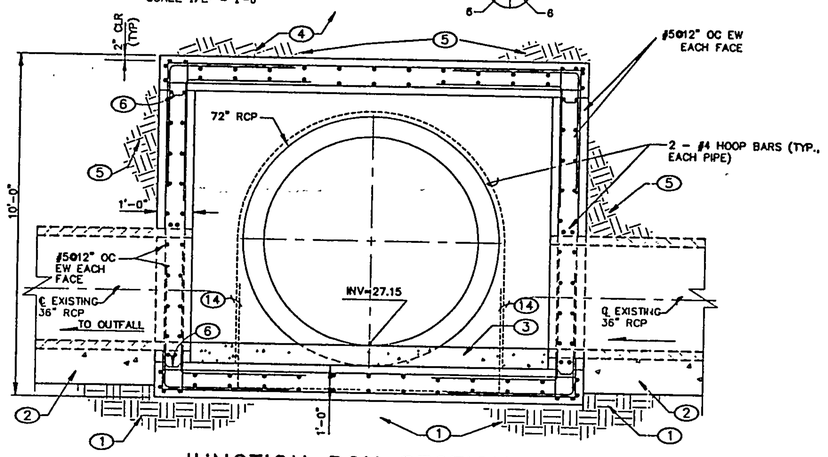


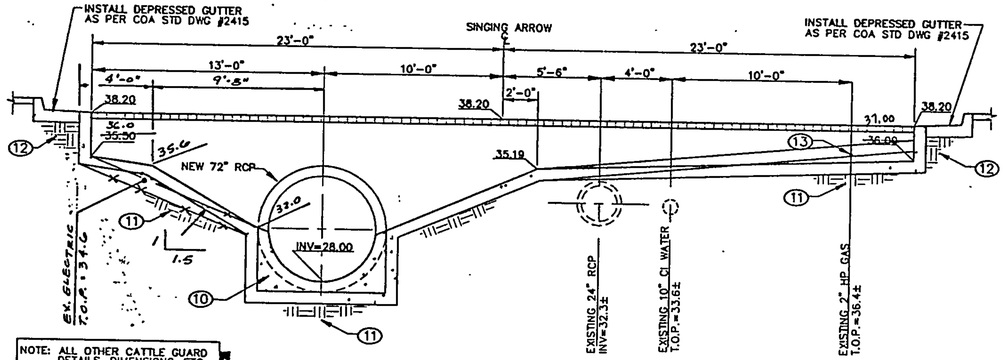
JUNCTION BOX PLAN VIEW (A)
SCALE 1/2" = 1'-0"



JUNCTION BOX SECTION (1)
SCALE 1/2" = 1'-0"

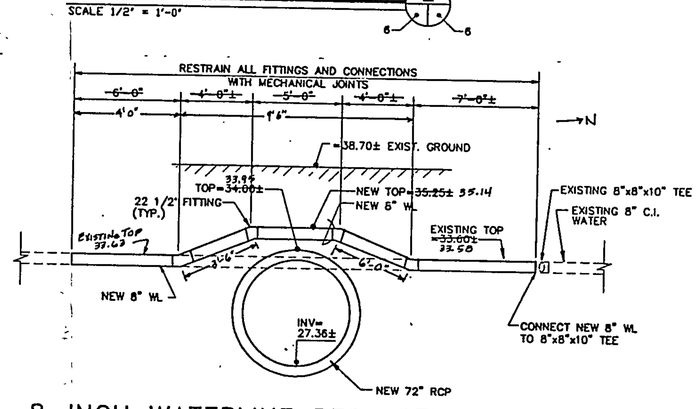


JUNCTION BOX SECTION (2)
SCALE 1/2" = 1'-0"



NOTE: ALL OTHER CATTLE GUARD DETAILS, DIMENSIONS, ETC. SHALL BE PER COA STD DWG 2271 AND 2272

CATTLE GUARD DETAIL (B)
SCALE 1/4" = 1'-0"
(LOOKING WEST)



8-INCH WATERLINE REPLACEMENT (C)
SCALE 1/4" = 1'-0"

KEYED NOTES:

1. 24-INCHES STRUCTURAL FILL COMPACTED TO 95% ASTM D-1557. COMPACT 12-INCHES SUBGRADE UNDER FILL TO 90% ASTM D-1557.
2. PIPE SUPPORT PER NOTE "A", COA STD DWG 2101. MINIMUM LENGTH TO BE 4-FEET.
3. CONCRETE SHAPING PER NOTE "M", COA STD DWG 2101.
4. SEE PLAN AND PROFILE SHEETS FOR FINISH GRADE ELEVATION ABOVE J-BOX.
5. BACKFILL COMPACTED PER COA STD SPECIFICATIONS.
6. 2" x 4" KEYED CONSTRUCTION JOINT, TYPICAL.
7. INSTALL MANHOLE RISER ON J-BOX PER COA STD. DWG. 2101 FOR TYPE "C" MANHOLE.
8. 24-INCH DIAMETER FORMED OPENING IN TOP OF J-BOX.
9. MANHOLE STEPS PER NOTE "R" ON COA STD DWG 2101.
10. CONCRETE FILL PER NOTE "M" COA STD DWG 2101.
11. COMPACTED SUBGRADE PER COA DETAIL
12. COMPACTED BACKFILL PER COA DETAIL
13. COORDINATE WITH THE GAS COMPANY OF NEW MEXICO FOR RELOCATION OF EXISTING 2-INCH HP GAS.
14. TIE #4 CORNER BAR, 3'-0"x3'-0" ON EACH HOOP BAR AROUND THE NEW 72" RCP.

AS BUILT INFORMATION
CONTRACTOR ____ DATE ____
VERIFIED BY ____ DATE ____
INSPECTOR ____ DATE ____
FIELD VERIFIED BY ____ DATE ____
VERIFIED BY ____ DATE ____
CORRECTED BY ____ DATE ____
MICRO-FILM INFORMATION
RECORDED BY ____ DATE ____
NO. ____

BENCH MARKS
C.O.A. BENCHMARK "1-21(6)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42 EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31 EASTING = 420742.99
GROUND TO GRID FACTOR = 0.99956489

SURVEY INFORMATION
FIELD NOTES BY: STEPHEN JAMES, TOLER — NO. 11599 — DATE 1/96
SURVEYING
CONTROL INC.

ENGINEER'S SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		DESIGN	
	DATE 3/96	DESIGNED BY TVD	
	DATE 3/96	DRAWN BY RAN/BAC/JCS	
	DATE 3/96	CHECKED BY P.J.C	

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Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
DRAINAGE DETAILS

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: No. / Dwg. / Sht. ____ / ____ / ____

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 6 of 29

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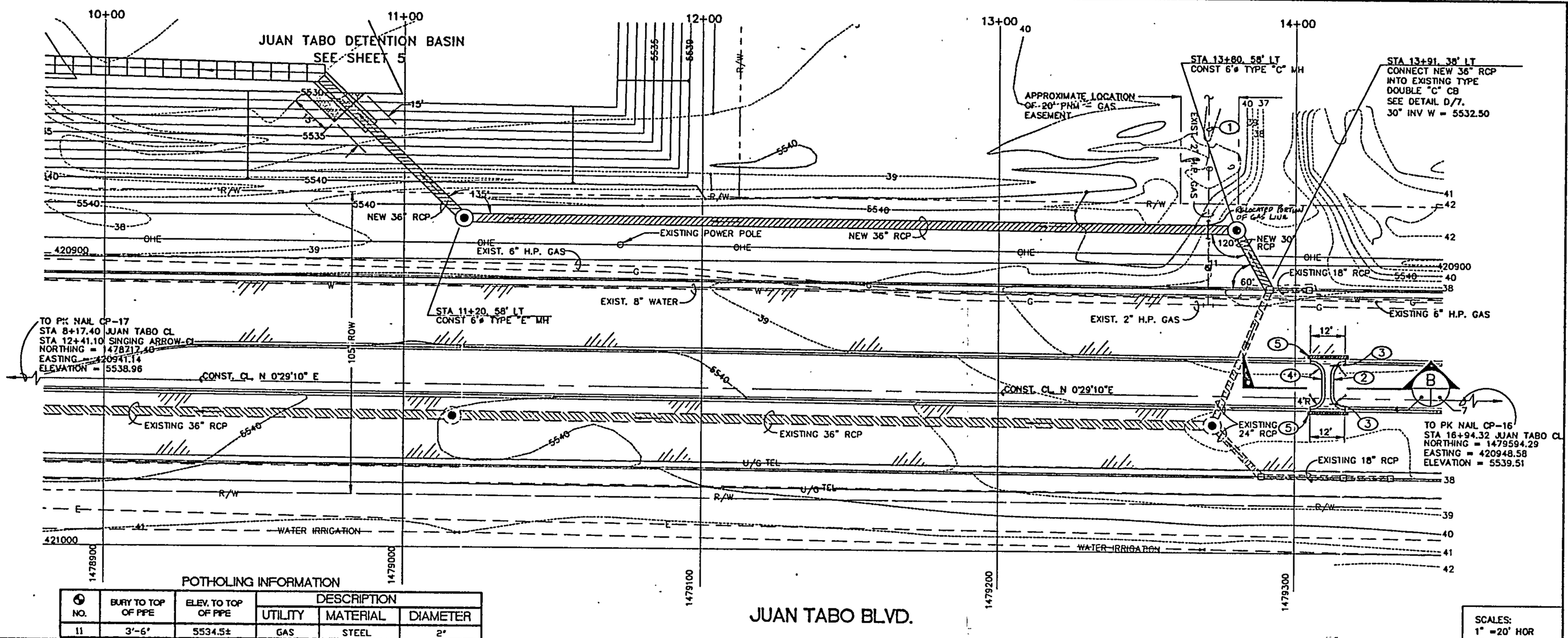
Plotted on: September 3, 1996 at 4:12 PM



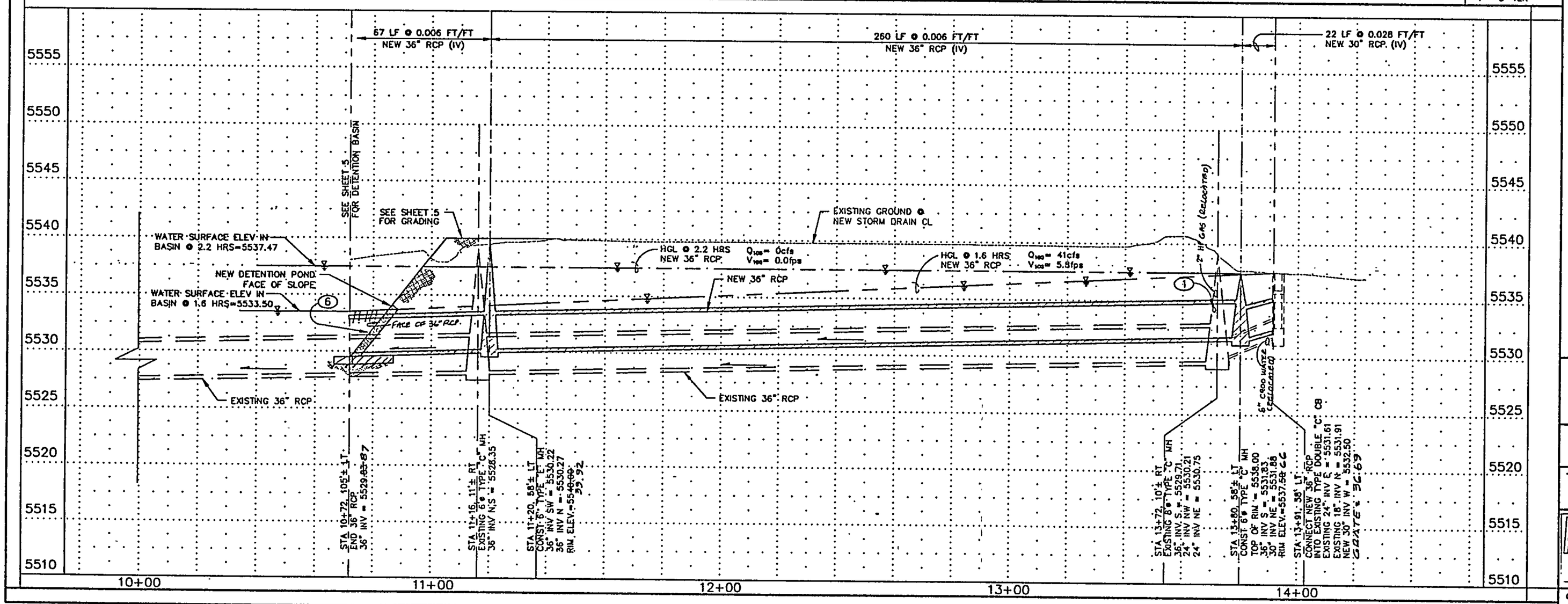
POTHOLING INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. TO TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
11	3'-6"	5534.5±	GAS	STEEL	2"

SCALES:
1" =20' HOR
1" =5' VER

KEYED NOTES:

1. COORDINATE WITH THE GAS COMPANY OF NEW MEXICO FOR RELOCATION OF EXISTING 2-INCH H.P. GAS.
2. CONSTRUCT 4-FOOT WIDE MEDIAN CUT PER DETAIL B/7. COORDINATE WITH COA INSPECTOR ON EXACT LOCATION.
3. REMOVE AND DISPOSE OF EXISTING MEDIAN CURB-AND-GUTTER TO LIMITS SHOWN. MATCH EXISTING MEDIAN CURB AND GUTTER.
4. REMOVE AND DISPOSE OF ASPHALT IN MEDIAN FOR MEDIAN CUT.
5. REMOVE AND REPLACE ASPHALT 1'-0" FROM LIP OF MEDIAN CURB. PATCH EXISTING ASPHALT PER COA STD DWG 2465. NEW ASPHALT THICKNESS TO BE EXISTING PLUS 2-INCHES.
6. PLACE 6-INCH DIAMETER TYPE VL RIPRAP, 12-INCH THICK, ON FACE OF SLOPE, AROUND NEW 36" RCP.



NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

N
20' 10' 0 20' 40'
SCALE: 1" = 20'

AS BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
INSPECTED BY — DATE
FIELD REVISIONS BY — DATE
CORRECTED BY — DATE

BENCH MARKS
C.O.A. BENCHMARK "L-12 (16)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996644849

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE
11599 | STEPHEN JAMES | 1/96
TOLER
SURVEYING CONTROL INC.

ENGINEER'S SEAL
PATRICK J. CONLEY
NEW MEXICO 10141
REGISTERED PROFESSIONAL ENGINEER
9/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY TVD	DATE 3/96
		DRAWN BY BAC	DATE 3/96
		CHECKED BY PJC	DATE 3/96

195106-SE1
Smith Engineering Company
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8400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
JUAN TABO DETENTION BASIN
PLAN AND PROFILE
JUAN TABO STORM DRAIN STA 10+00 TO STA 14+00

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: No. / Dwg / Yr.

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 4 of 29

Drawing name: C:\BAC\PROJECTS\JUANTABO\JT-PNP.DWG
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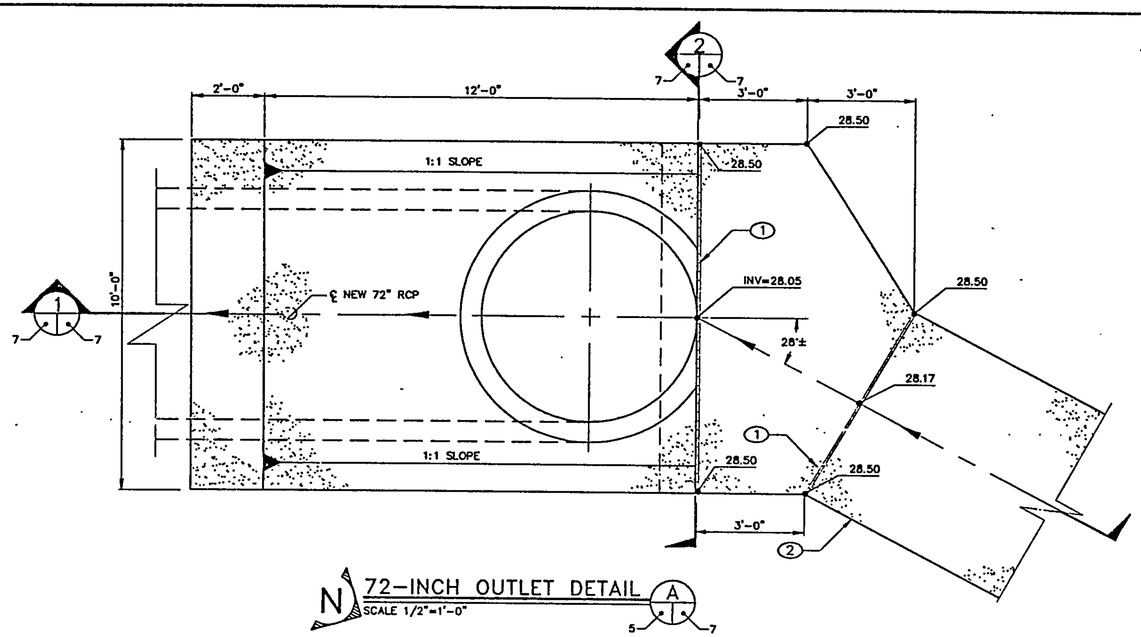
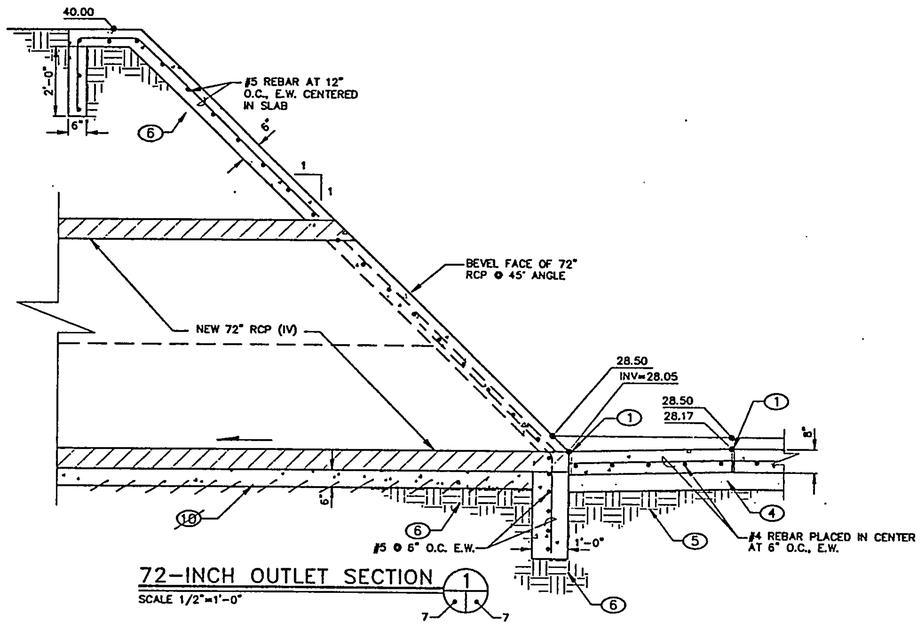
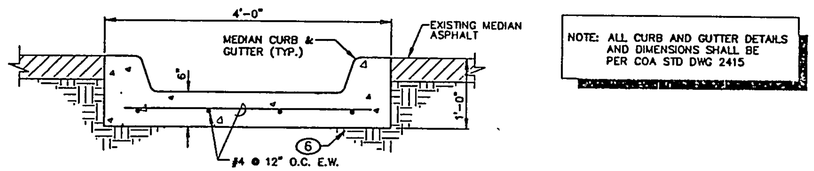


N 72-INCH OUTLET DETAIL A
SCALE 1/2"=1'-0"

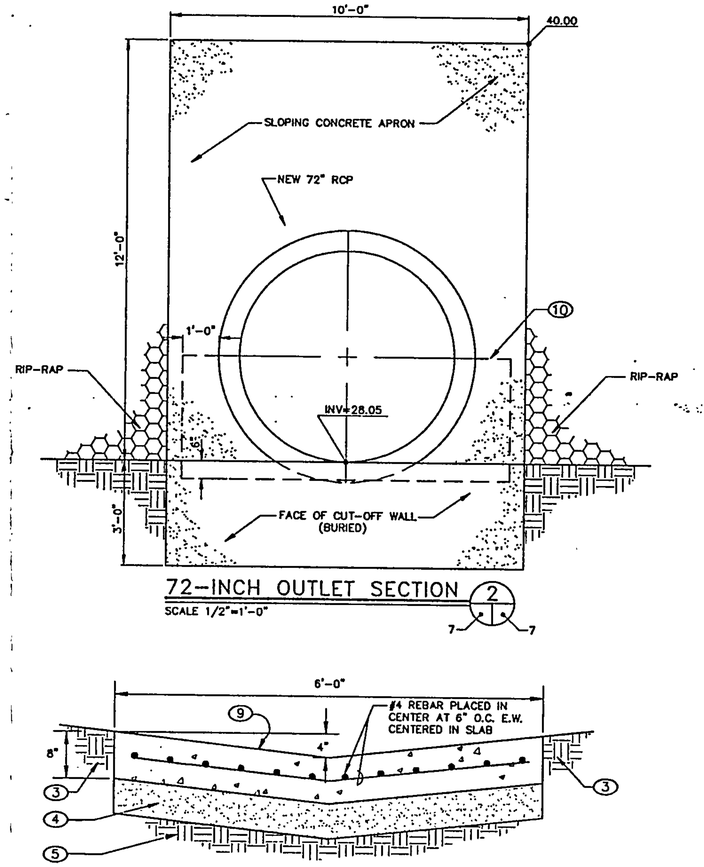


72-INCH OUTLET SECTION 1
SCALE 1/2"=1'-0"



JUAN TABO MEDIAN CUT DETAIL B
SCALE 1"=1'-0"

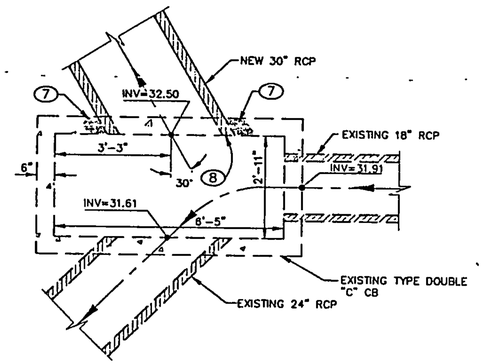
NOTE: ALL CURB AND GUTTER DETAILS AND DIMENSIONS SHALL BE PER COA STD DWG 2415



72-INCH OUTLET SECTION 2
SCALE 1/2"=1'-0"

1/2" EXPANSION JOINTS @ 18' O.C. AND SCORE @ 6' O.C.

CONCRETE SWALE DETAIL C
SCALE 1"=1'-0"



N 30-INCH CATCH BASIN CONNECTION D
SCALE 1/2"=1'-0"

KEYED NOTES:

1. INSTALL 1/2" EXPANSION JOINT AS PER COA STD DWG. 2260
2. CONSTRUCT CONCRETE SWALE AS PER DETAIL C, THIS SHEET
3. BACKFILL COMPACTED PER COA DETAIL
4. 6-INCH AGGREGATE BASE COURSE COMPACTED TO 95% OF ASTM D-1557
5. 6-INCH SUBGRADE COMPACTED TO 95% OF ASTM D-1557
6. 12-INCH SUBGRADE COMPACTED TO 95% OF ASTM D-1557
7. GROUT AROUND NEW 30-INCH RCP WITH NON SHRINK GROUT.
8. BEVEL 30-INCH RCP SO EDGE IS FLUSH WITH INSIDE WALL OF CATCH BASIN.
9. INSTALL 1/2" EXPANSION JOINTS AT 18-FEET O.C. AND SEAL WITH 1/2"x1/2" SEALANT. SCORE CONTRACTION JOINTS AT 6-FEET O.C.
10. PLACE 16-LF OF CONCRETE PIPE SUPPORT PER NOTE "A", COA STD DWG 2101.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

SURVEYING
CONTROL INC.

BENCH MARKS

C.O.A. BENCHMARK "J-121(61)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481360.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
ADDITIONS BY — DATE
FIELD REVISION BY — DATE
REVISED CONNECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

ENGINEER'S SEAL

PATRICIO J. COURLEY — NEW MEXICO — 10121 — REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY TVD	DATE 3/96
		DRAWN BY RAN/BAC/JCS	DATE 3/96
		CHECKED BY PJC	DATE 3/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 600Z Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
DRAINAGE DETAILS

City Development Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92
Zone Map No. L-21
Sheet 7 of 29

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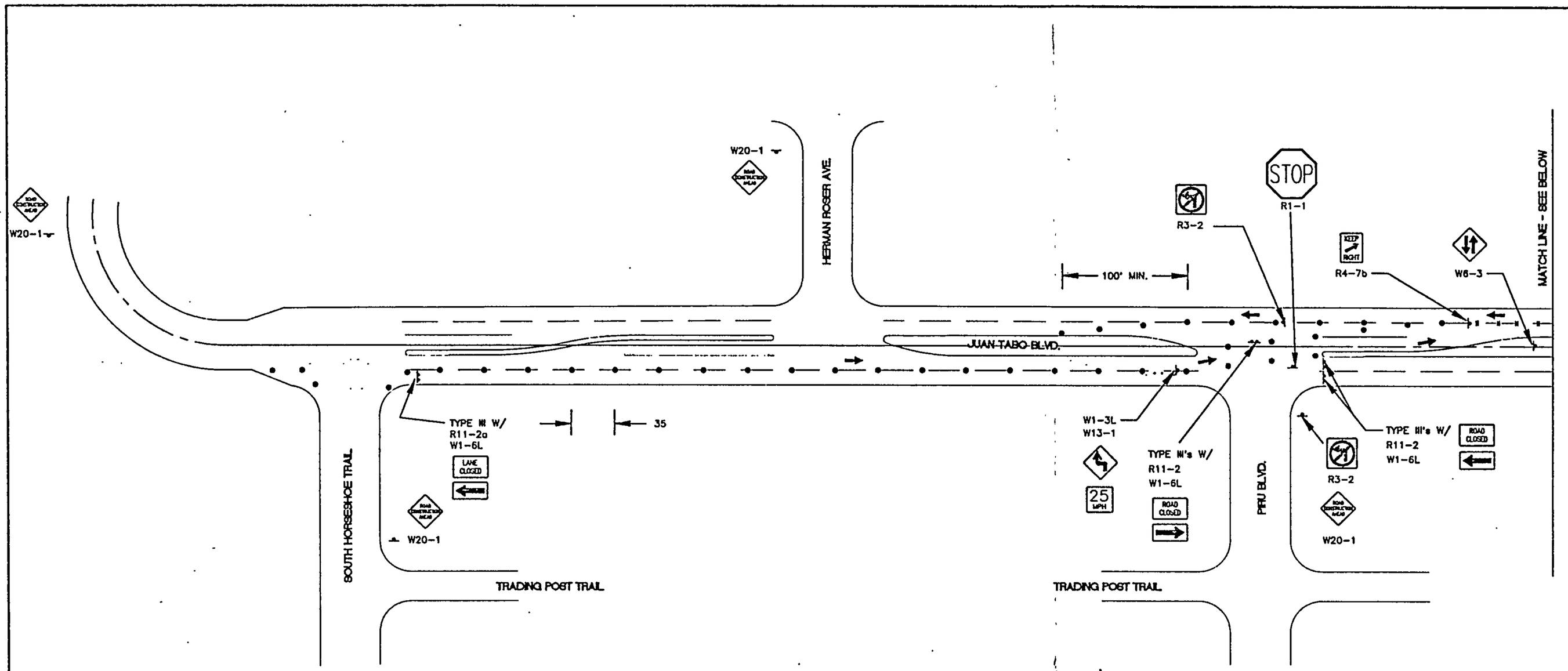

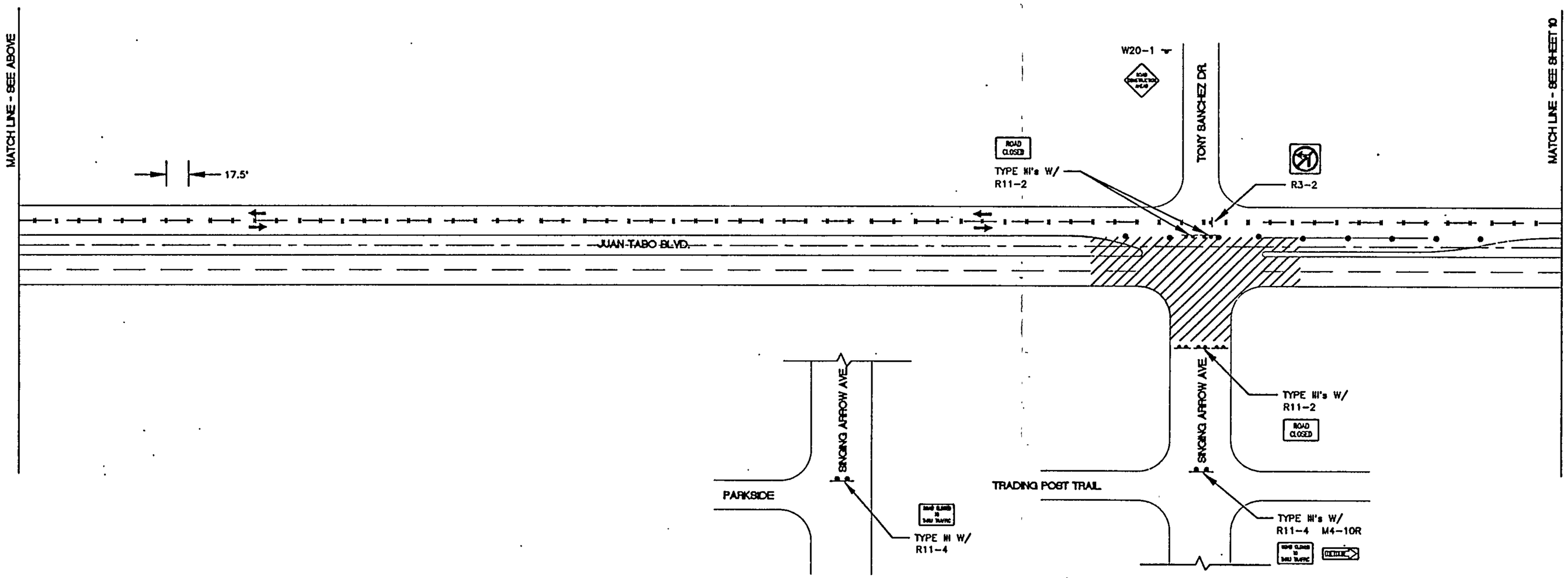

LEGEND

- → INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE–TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES – MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

BENCH MARKS

C.O.A. BENCHMARK "1-L21(B)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION

CONTRACTOR ____ DATE ____
WORK STAKED BY ____ DATE ____
INSPECTION BY ____ DATE ____
ACCEPTANCE BY ____ DATE ____
FIELD REVISION BY ____ DATE ____
DRAWING REVISED BY ____ DATE ____

MICRO-FILM INFORMATION

RECORDED BY ____ DATE ____
NO. ____

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES TOLER	1/96

FROM SURVEYING CONTROL INC.

ENGINEER'S SEAL

PATRICK J. CONLEY NEW MEXICO (10141) REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	JCS DATE 5/96
		DRAWN BY	ALM/JCS DATE 5/96
		CHECKED BY	PJC DATE 6/96

195106–SE1

Smith Engineering Company
A Full Service Engineering Company
5486 Uptown Boulevard, N.E. Suite 200B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE I

City Traffic Engineer: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: No. / Day / Yr ____ No. / Day / Yr ____

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 9 of 29

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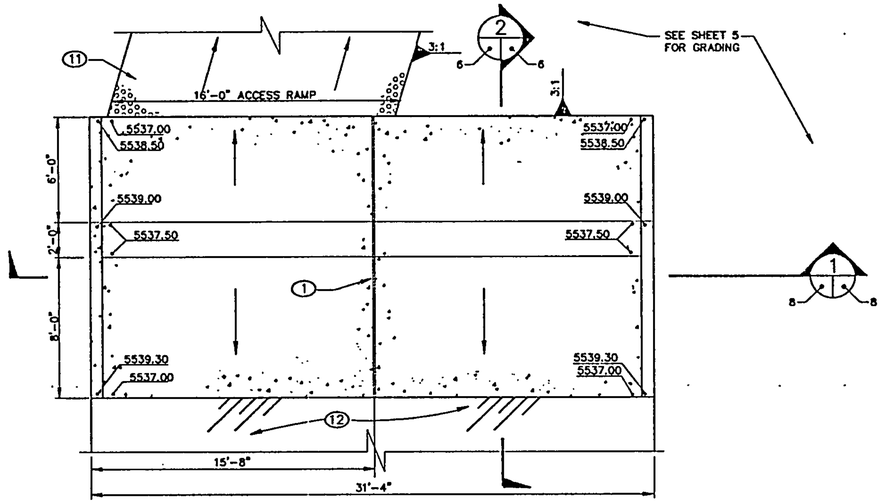
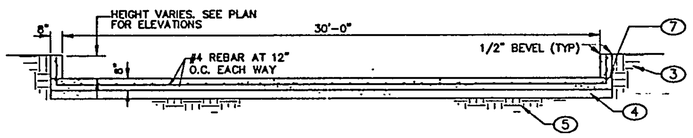


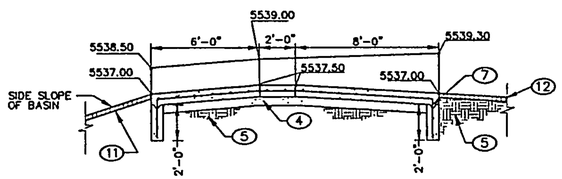
EMERGENCY SPILLWAY PLAN VIEW (A)

SCALE 1/4" = 1'-0"



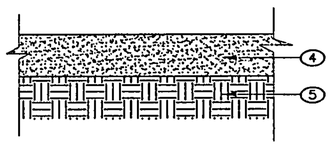
EMERGENCY SPILLWAY SECTION (1)

SCALE 1/4" = 1'-0"



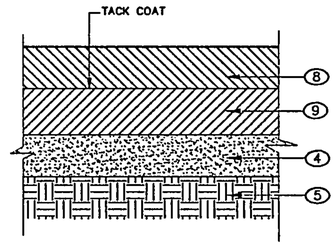
EMERGENCY SPILLWAY SECTION (2)

SCALE 1/4" = 1'-0"



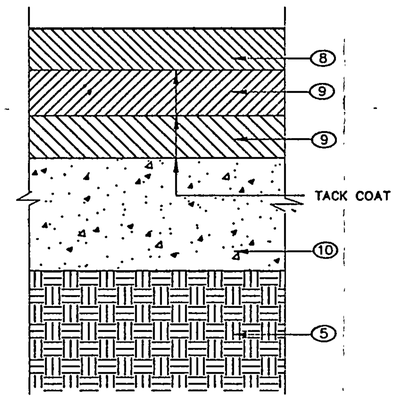
TYPICAL ACCESS RAMP SECTION (D)

SCALE: N.T.S.



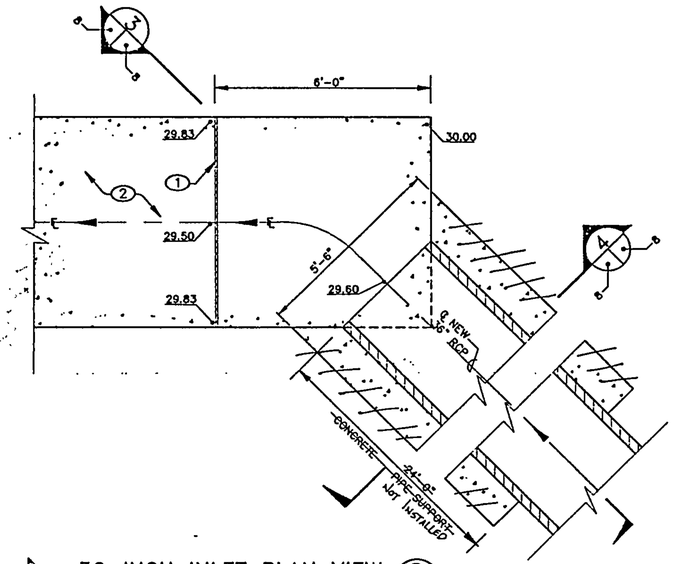
TYPICAL EMERGENCY SPILLWAY ASPHALT APRON SECTION (E)

SCALE: N.T.S.



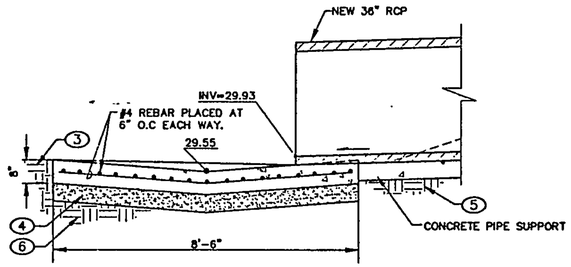
TYPICAL PAVEMENT SECTION FOR JUAN TABO BLVD. & SINGING ARROW RD. (C)

SCALE: N.T.S.



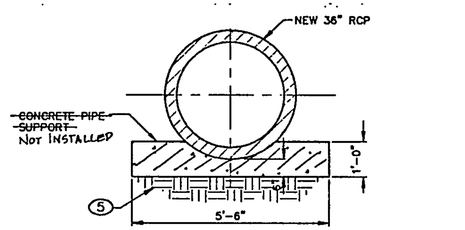
36-INCH INLET PLAN VIEW (B)

SCALE 1/2"=1'-0"



36-INCH INLET SECTION (3)

SCALE 1/2"=1'-0"



36-INCH INLET SECTION (4)

SCALE 1/2"=1'-0"

KEYED NOTES:

1. INSTALL 1/2" EXPANSION JOINT AS PER COA STD DTL 2260.
2. CONSTRUCT CONCRETE SWALE AS PER DETAIL THIS SHEET.
3. COMPACTED BACKFILL PER COA SPECIFICATIONS.
4. 6-INCH COMPACTED AGGREGATE BASE COURSE TO 95% ASTM D-1557.
5. 12-INCH SUBGRADE COMPACTED TO 95% ASTM D-1557.
6. 6-INCH SUBGRADE COMPACTED TO 95% ASTM D-1557.
7. 2"x4" KEYED CONSTRUCTION JOINT.
8. 1-1/2" ARTERIAL SURFACE COURSE ASPHALTIC CONCRETE 1800 M. TYPE "B"
9. 1-1/2" ARTERIAL BASE COURSE ASPHALTIC CONCRETE 1800 M. TYPE "B".
10. 4" BITUMINOUS STABILIZED BASE.
11. CONSTRUCT ACCESS RAMP PER DETAIL D/8.
12. CONSTRUCT EMERGENCY SPILLWAY ASPHALT APRON SECTION PER DETAIL E/8.

BENCH MARKS

C.O.A. BENCHMARK "1-21(B)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1491380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999644849

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	
	SURVEYING	
	CONTROL INC.	

AS BUILT INFORMATION

CONTRACTOR _____ DATE
VERIFIED BY _____ DATE
INSPECTOR'S ACCEPTANCE _____ DATE
CERTIFICATION BY _____ DATE
BALANCING SHEETS BY _____ DATE

MICRO-FILM INFORMATION

RECORDED BY _____ DATE
NO. _____

ENGINEER'S SEAL

PATRICK J. CONLEY NEW MEXICO 9781 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY TVD DATE 3/96
DRAWN BY RAN/BAC/JCS DATE 3/96
CHECKED BY PJC DATE 3/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
8400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

DRAINAGE DETAILS

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER

Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 8 of 29

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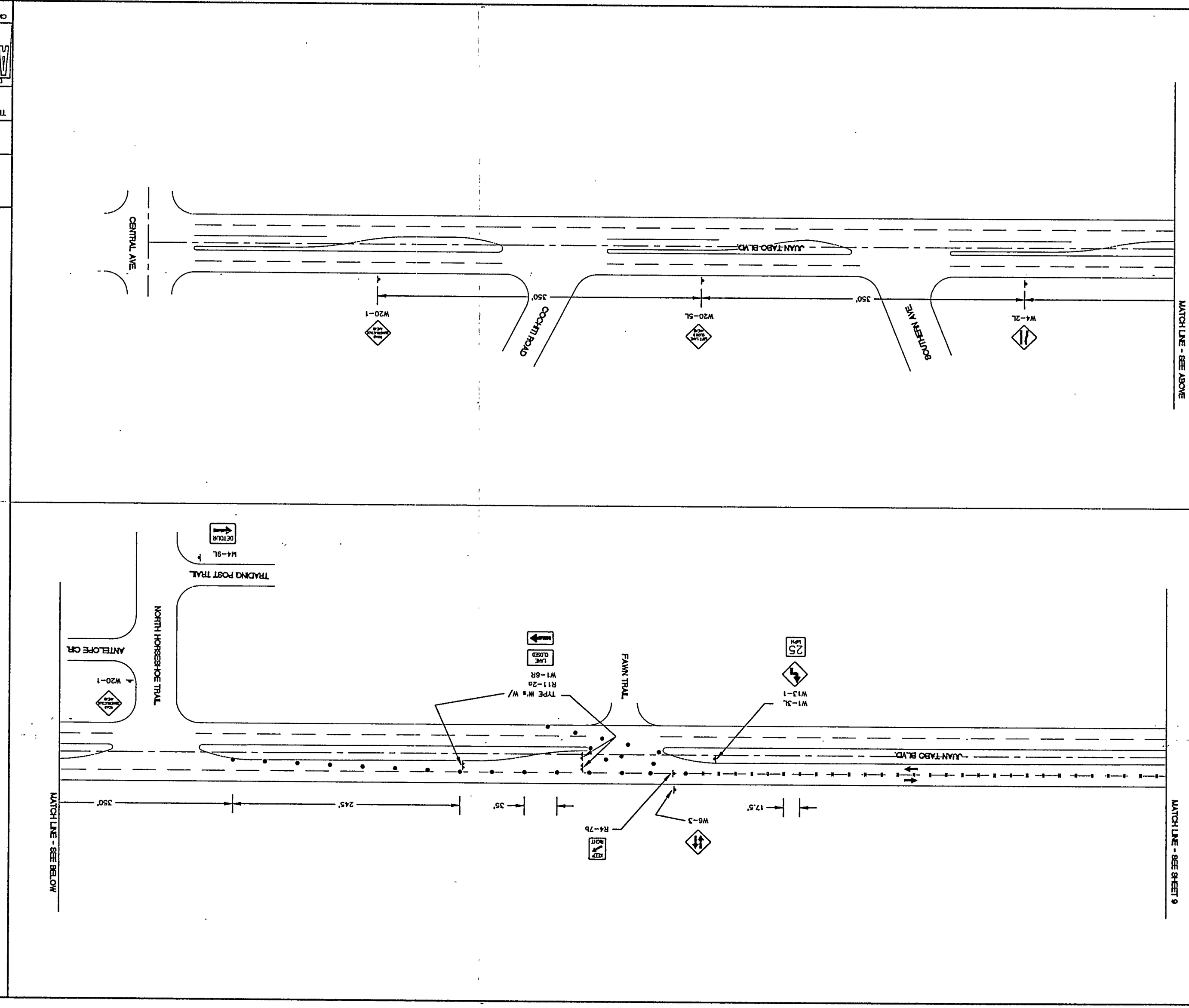

LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3

SCALE: 1" = 50'

50' 25' 0 50' 100'

N

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE
11599	STEPHEN JAMES TOLER	1/96
FROM SURVEYING CONTROL INC.		

BENCH MARKS
C.O.A. BENCHMARK "1-L21(6)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV. = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42 EASTING = 1420892.47
GRID COORDINATES: NORTHING = 1480854.31 EASTING = 1420742.99
GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION	
CONTRACTOR	Buried
WORK STAKED BY	
DATE	
FIELD INSPECTION AND ACCEPTANCE BY	
DATE	
FIELD VERIFICATION OF AS-BUILTS BY	
DATE	
AS-BUILTS DRAWINGS CORRECTED BY	
DATE	
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	

ENGINEER'S SEAL

PATRICK J. CONLEY — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 10101

8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	JGS	DATE 5/96
DRAWN BY	ALM/JGS	DATE 5/96
CHECKED BY	PJC	DATE 6/96

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, P.A. Suite 500W Albuquerque, New Mexico 87110

19510G-SE1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE I

Design Review Committee		City Engineer Approval		Last Design Update
DESIGN REVIEW COMMITTEE	SEP 16 1996	CITY ENGINEER	SEP 16 1996	no / Dev / tr
				no / Dev / tr

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 10 of 29

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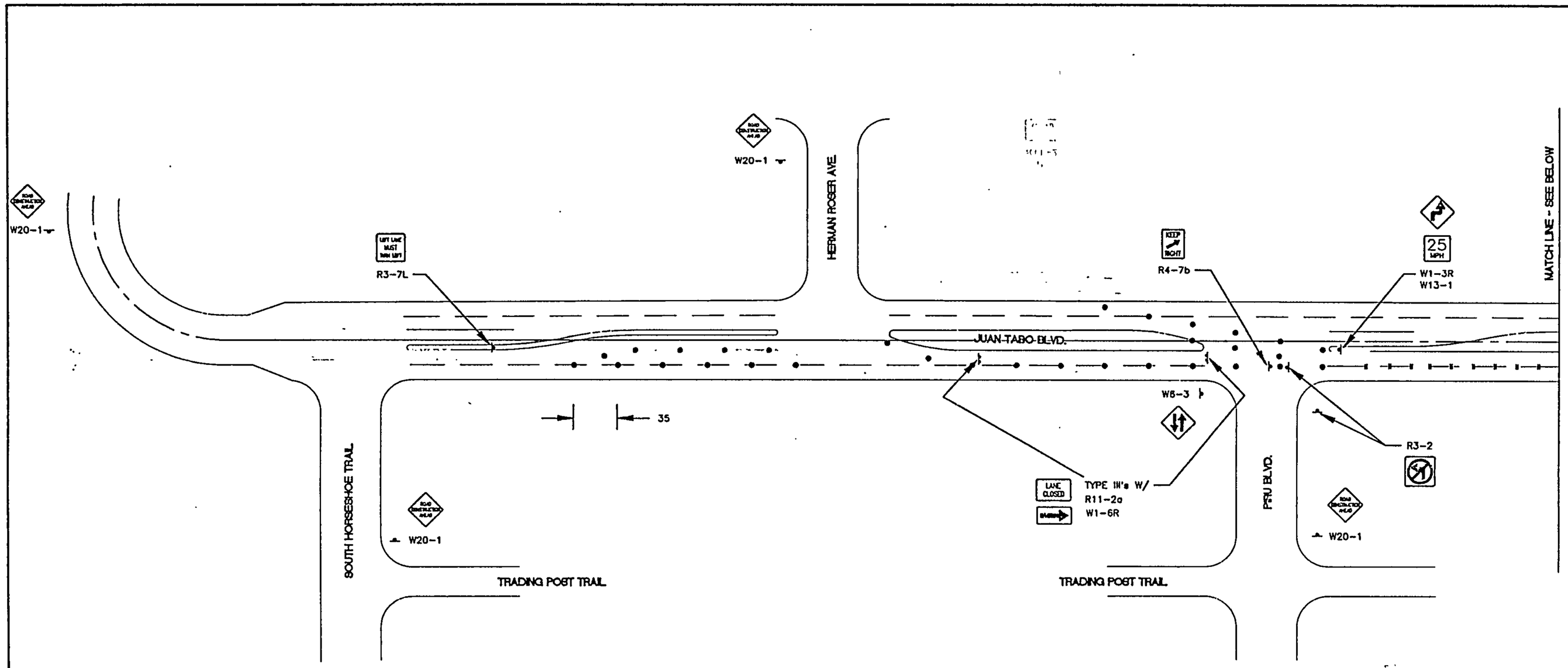

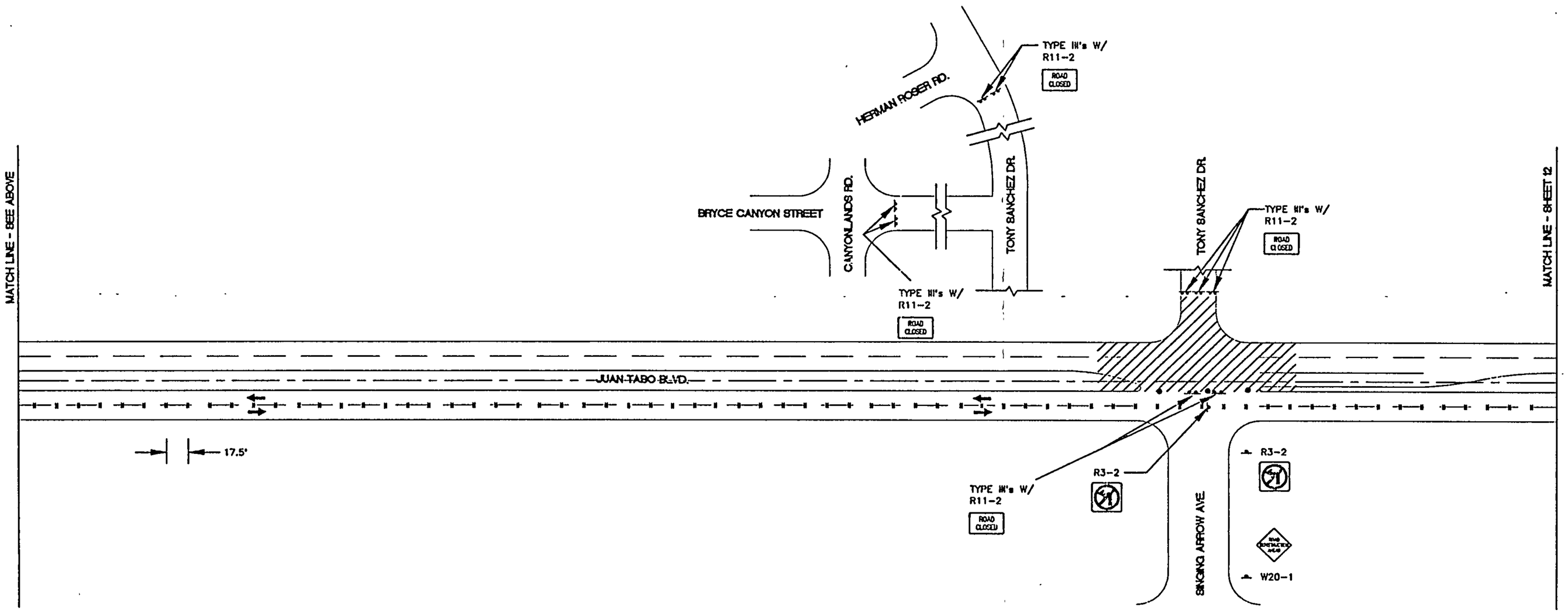

LEGEND

- → INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- ● CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE–TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES – MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES TOLER	1/96

FROM SURVEYING CONTROL INC.

BENCH MARKS

C.O.A. BENCHMARK "L-21(6)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.

ELEV = 5534.627 FT

GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 1420892.47

GRID COORDINATES: NORTHING = 1480854.31
EASTING = 1420742.99

GROUND TO GRID FACTOR = 0.99986448649

AS BUILT INFORMATION

CONTRACTOR _____ DATE _____

WORK STAKED BY _____ DATE _____

ACCEPTANCE BY _____ DATE _____

FIELD VERIFICATION BY _____ DATE _____

DRAWINGS CORRECTED BY _____ DATE _____

MICRO-FILM INFORMATION

RECORDED BY _____ DATE _____

ENGINEER'S SEAL

PATRICK J. COMLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JGS DATE 5/96
DRAWN BY ALM/JCS DATE 5/96
CHECKED BY PJC DATE 6/96

195106–SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE II

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER

Last Design Update

City Project No. 4790.92 Zone Map No. L-21 Sheet 11 of 29

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Plotted on: August 9, 1996 at 7:19 AM

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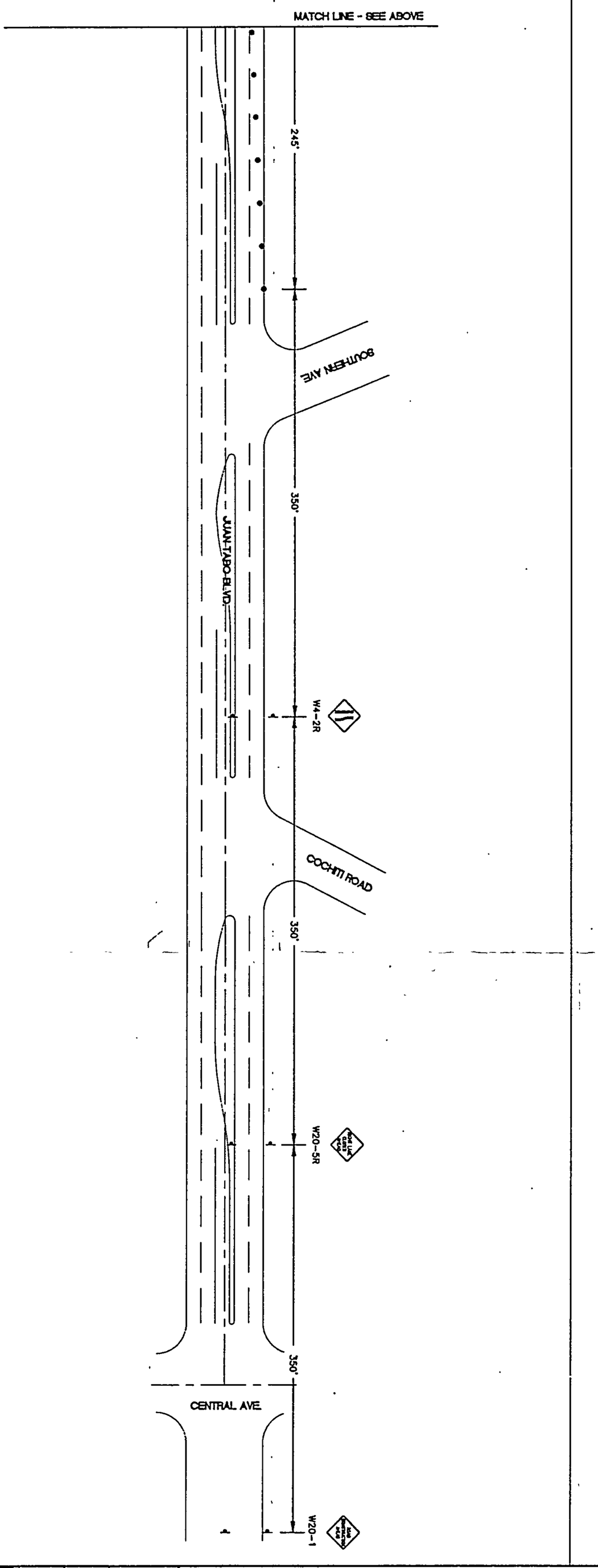
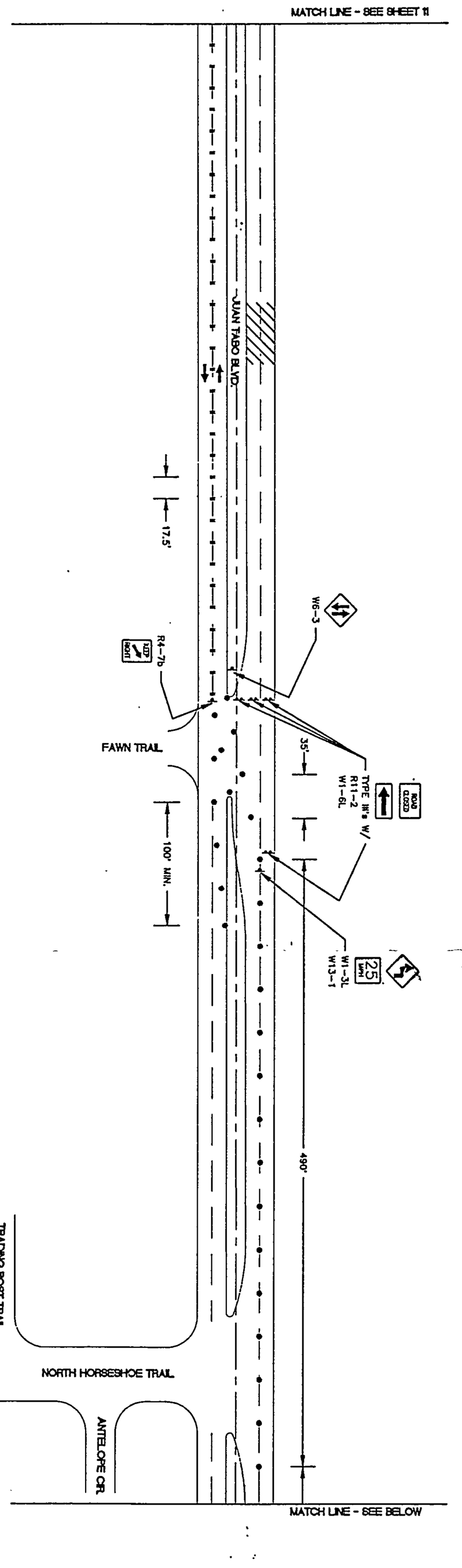




LEGEND

- → INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- ● CHANNELIZATION DEVICE - BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3

SCALE: 1" = 50'

N

Smith Engineering Company
A Full Service Engineering Company
5486 Sphere Boulevard, N.E. Suite 6000 Albuquerque, New Mexico 87113

195106-SE1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
JUAN TABO DETENTION BASIN
TRAFFIC CONTROL PLAN: PHASE II

APPROVED
SEP 16 1996
DESIGN REVIEW COMMITTEE

APPROVED
SEP 16 1996
City Engineer Approval
CITY ENGINEER

Last Design Update

City Project No. 4790.92
Zone Map No. L-21
Sheet 12 of 29

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	JCS	DATE 5/96	
DRAWN BY	ALM/JCS	DATE 5/96	
CHECKED BY	PJC	DATE 6/96	

ENGINEER'S SEAL
PATRICK J. CONLEY
NEW MEXICO
10141
REGISTERED PROFESSIONAL ENGINEER
6/15/96

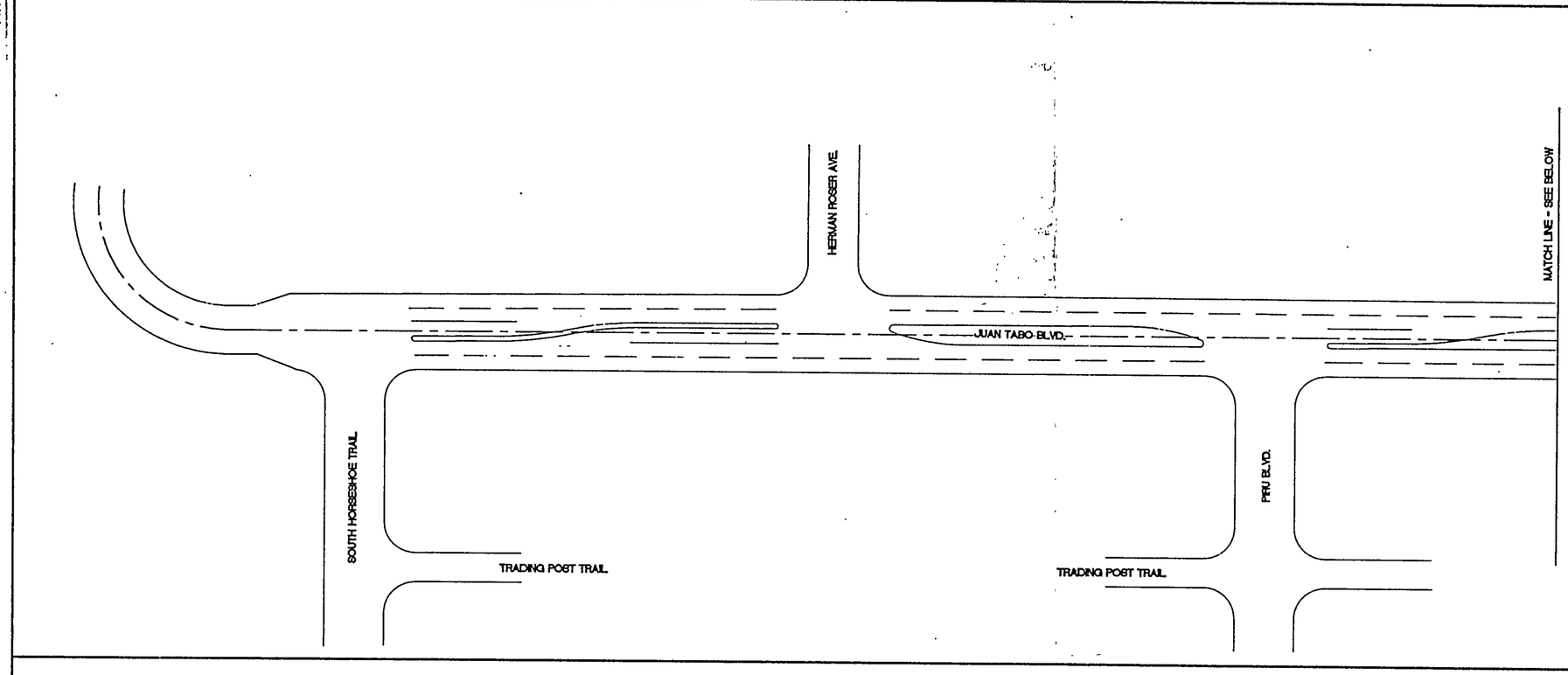
SURVEY INFORMATION

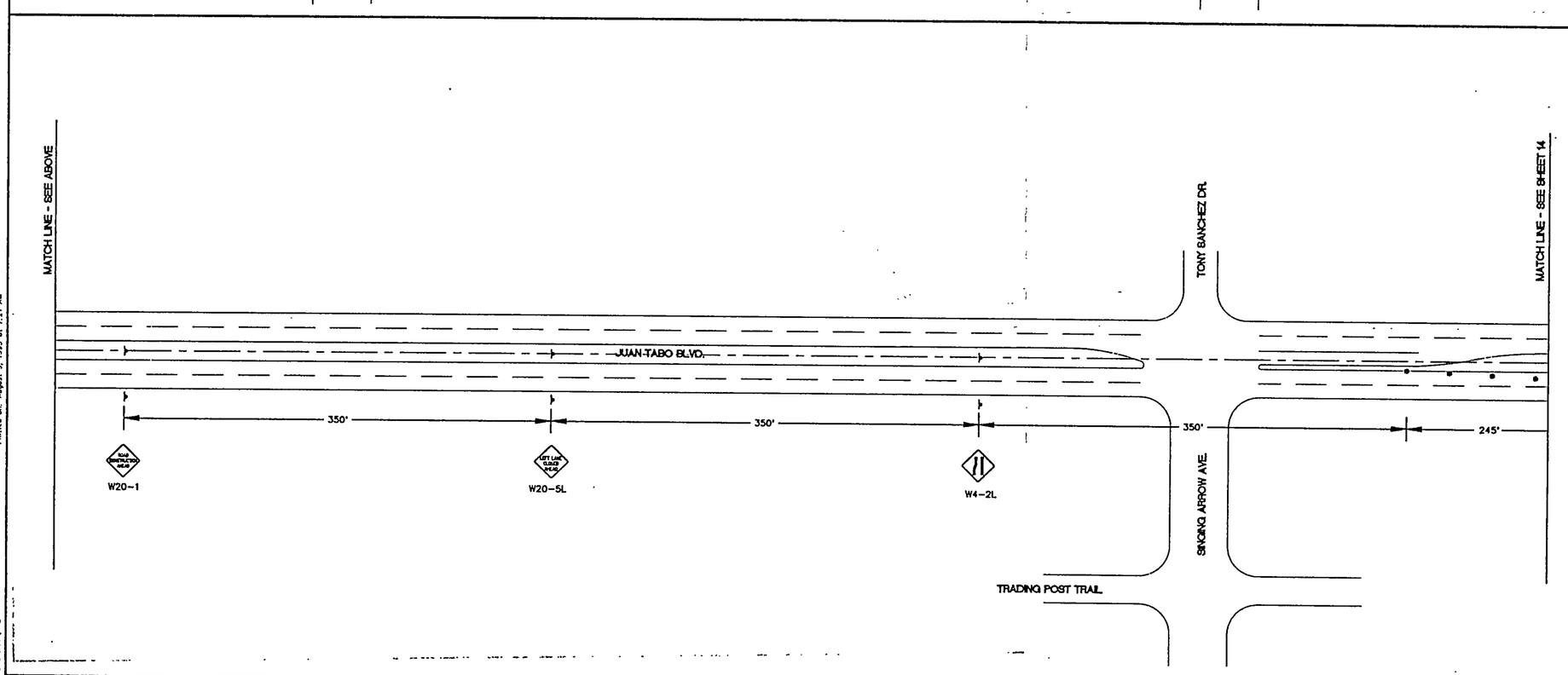
FIELD NOTES		
NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	
	FROM SURVEYING	
	CONTROL INC.	

BENCH MARKS
C.O.A. BENCHMARK "I-L21(R)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION
CONTRACTOR ZMCI
WORK STAKED BY ____ DATE
INSPECTOR'S ACCEPTANCE BY ____ DATE
FIELD VERIFICATION BY ____ DATE
DRAWINGS CORRECTED BY ____ DATE

MICRO-FILM INFORMATION
RECORDED BY ____ DATE
NO. ____





LEGEND

- → INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- ● CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- ▪ VERTICAL PANEL
- BARRICADE–TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES – MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

N

50' 25' 0 50' 100'
SCALE: 1" = 50'

195106–SE1

Smith Engineering Company
A Full Service Engineering Company
8440 Upland Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
TRAFFIC CONTROL PLAN: PHASE III

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: no. / Rev / no. | no. / Rev / no.

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 13 of 29

ENGINEER'S SEAL
PATRICK WAYNE J. CORLEY 10141 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REVISIONS	BY
		DESIGN	
DESIGNED BY	JGS		DATE 5/96
DRAWN BY	ALN/JCS		DATE 5/96
CHECKED BY	PJC		DATE 6/96

AS BUILT INFORMATION
CONTRACTOR Bid
STAKED BY ____ DATE ____
INSPECTION & MONITORING BY ____ DATE ____
FIELD VERIFICATION BY ____ DATE ____
CORRECTED BY ____ DATE ____
MICRO-FILM INFORMATION
RECORDED BY ____ DATE ____
NO. ____

BENCH MARKS
C.O.A. BENCHMARK "1-L21(0)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT.
GROUND COORDINATES: NORTHING = 1461380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1460854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996464849

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES TOLER	1/96

FROM SURVEYING CONTROL INC.

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This is sheet # 2
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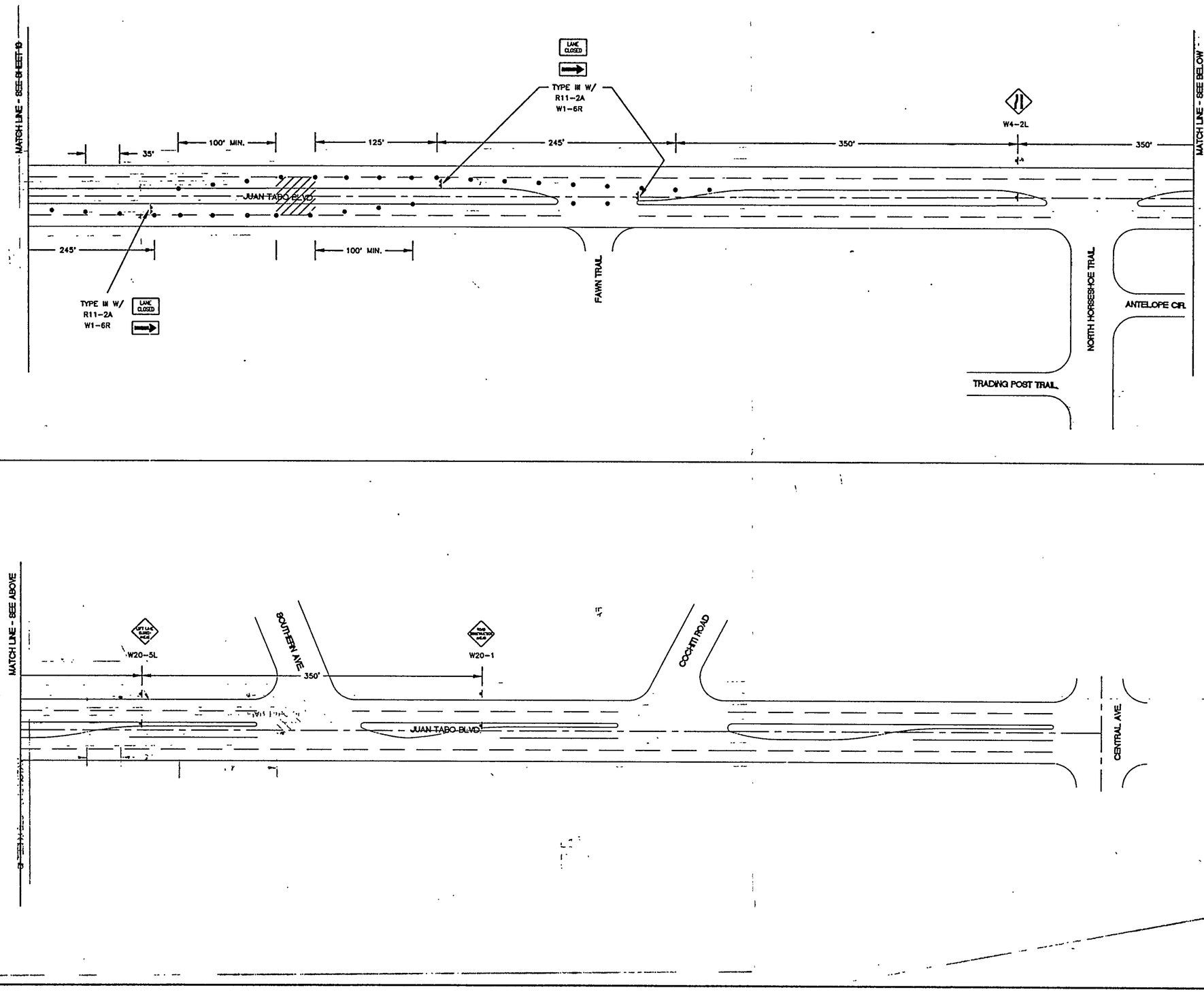

LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE - BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

SURVEY INFORMATION

FIELD NOTES

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11599	STEPHEN JAMES	1/96
	TOLER	
	FROM SURVEYING CONTROL INC.	

BENCH MARKS

C.O.A. BENCHMARK 2-121(G) ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.

ELEV = 5534.627 FT

GROUND COORDINATES: NORTHING = 1481390.42
EASTING = 420892.47

GRID COORDINATES: NORTHING = 1480854.351
EASTING = 420742.88

GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION

CONTRACTOR ____ DATE ____
WORK STAKED BY ____ DATE ____
ACCEPTANCE BY ____ DATE ____

FIELD VERIFICATION BY ____ DATE ____
CORRECTIONS BY ____ DATE ____

MICRO-STATION INFORMATION

DRAWING FILE NAME ____ DATE ____
CORRECTIONS BY ____ DATE ____

ENGINEER'S SEAL

PATRICK J. CONLEY NEW MEXICO (10141) REGISTERED PROFESSIONAL ENGINEER

9/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	JCS	DATE 5/96
DRAWN BY	ALM/JCS	DATE 5/96
CHECKED BY	PJC	DATE 5/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
5486 Uptown Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE III

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER

Last Design Update

City Project No.	Zone Map No.	Sheet	Of
4790.92	L-21	14	29

Drawing name: C:\BAC\PROJECTS\JUANTABO\JUAN2.DNG
Last saved: August 9, 1996 at 4:21 PM
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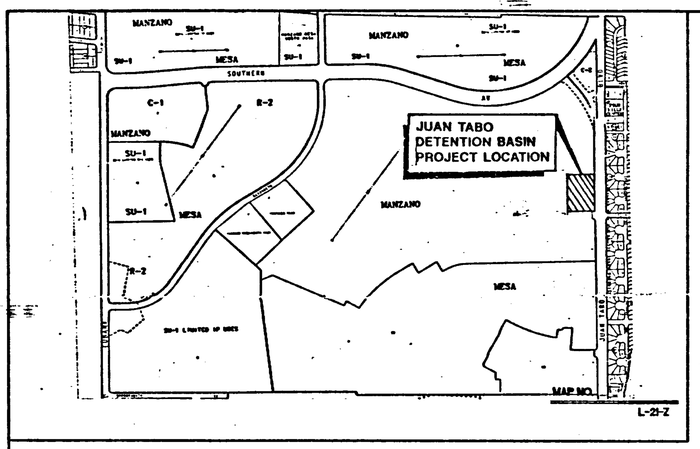
This is plot # 2



VICINITY MAP

CITY OF
Albuquerque

CONSTRUCTION PLANS

FOR

CITY OF ALBUQUERQUE

JUAN TABO DETENTION BASIN

(C.O.A. #4790.92)

~~AND~~

~~CENTRAL AVENUE STORM DRAIN~~

(C.O.A. #5188.90)

~~AND~~

~~MANZANO MESA PARK - PHASE 1A~~

(C.O.A. 5018.90)

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
PROJECT TITLE: JUAN TABO DETENTION BASIN (C.O.A. #4790.92)	
1	TITLE SHEET, VICINITY MAP, SHEET INDEX
2	GENERAL NOTES AND LEGEND
3	PLAN AND PROFILE – SINGING ARROW STATION 10+00 TO 14+00
4	PLAN AND PROFILE – JUAN TABO STATION 10+00 TO 14+00
5	JUAN TABO DETENTION BASIN PLAN
6–8	DRAINAGE DETAILS
9–10	TRAFFIC CONTROL – PHASE I
11–12	TRAFFIC CONTROL – PHASE II
13–14	TRAFFIC CONTROL – PHASE III
PROJECT TITLE: CENTRAL AVE. STORM DRAIN (C.O.A. #5188.90)	
15	TITLE SHEET, VICINITY MAP, SHEET INDEX, GENERAL NOTES AND LEGEND
16	PLAN & PROFILE – FOUR HILLS VILLAGE SHOPPING CENTER STATION 10+00 TO 13+56
17	PLAN & PROFILE – CENTRAL AVE. STATION 13+56 TO 19+12.43
18–19	TRAFFIC CONTROL
MISCELLANEOUS SHEETS: (C.O.A. #4790.92 & #5188.90)	
20	SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS
21	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
22	TYPICAL TRENCHING SECTIONS
⚠ MANZANO MESA PARK - PHASE 1A (C.O.A. #5018.90)	
23	TITLE SHEET, VICINITY MAP, SHEET INDEX
24	PLAT SURVEY AND VICINITY MAP
25	SITE/LANDSCAPE PLAN
26	GRADING AND DRAINAGE PLAN
27	ENLARGED BALL FIELD PLANS
28	SITE DETAILS
29	IRRIGATION PLAN

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ALBUQUERQUE
260-1990

"RECORD DRAWING"

I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR, R.M.C.I. AND THE C.O.A. SURVEYOR. THESE DRAWINGS REFLECT THE CONSTRUCTION AS ACTUALLY ACCOMPLISHED ON THE PROJECT, AS CONSTRUCTED, IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS.

PATRICK J. CONLEY, NMPE 10141 — 4/16/97 DATE

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 4-25-97

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
8500 Menaul Boulevard, N.E. Suite B402 Albuquerque, New Mexico 87112

See Corresponding Projects 5188.90 and 5018.90

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	ADD SHEETS 22-29	Billy J. Goolsby	1-28-97	Kenneth D. Myers Patricia D. Wong	1/9/97 1/9/97		

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER 8/15/96	DRC Chairman	Billy J. Goolsby	9-16-96
	Transportation	Patricia D. Wong	9-11-96
	Water/Wastewater	Kenneth D. Myers	9-6-96
	Hydrology	Patricia D. Wong	9-11-96
	Parks		
	Const. Mngmt.		

APPROVED FOR CONSTRUCTION
Billy J. Goolsby 9-16-96
City Engineer Date

City Project No. 4790.92

Sheet 1 of 29

Drawing name: C:\ENGPROJECTS\JUANTABO\JT-COV.e
Saved on: August 8, 1996 at 7:16 AM
Plotted on: August 8, 1996 at 10:36 AM

1 THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.

2 THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.

3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO.6.

4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.

5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

6 ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.

7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

8 THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY WATER SHUT OFF WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. ALL EXISTING VALVES MAY ONLY BE OPERATED BY COA WATER DIVISION PERSONNEL. REFER TO SECTION 18 OF SPECIFICATIONS.

9 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

10 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

11 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.

12 WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

13 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.

14 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.

15 THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.

16 CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.

17 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.

18 ALL SUBGRADE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTION REQUIRED BY THE SPECIFICATIONS.

19 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.

20 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

21 ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE C.O.A.

22 MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL CONFORM TO C.O.A. STANDARD SPECIFICATIONS. BEDDING MATERIAL SHALL BE CLASS II OR III UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.

23 MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL CONFORM TO THE C.O.A. STANDARD SPECIFICATIONS. BEDDING MATERIAL SHALL BE CLASS I, II, OR III.

24 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.

25 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.

26 ALL REINFORCING STEEL TO BE GRADE 60.

27 ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.

28 ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.

29 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

30 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT AND STRIPING WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PAVING AND ANY FILL REQUIRED FOR PLACEMENT OF THE TEMPORARY PAVING. THIS WORK IS CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

31 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.

32 THE CONTRACTOR WILL CONTACT THE CITY OF ALBUQUERQUE TRAFFIC DIVISION 857-8680, ONE (1) WEEK IN ADVANCE OF ANY CHANGES REQUIRED IN THE TRAFFIC SIGNALIZATION OF THIS PROJECT. ALL WORK ASSOCIATED WITH NEW TRAFFIC SIGNALIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

33 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

34 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

35 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.

36 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.

37 ALL CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

38 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE SPECIFICATIONS.

39 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.

40 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.

41 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

42 STATIONS OF STORM DRAIN INLETS ARE TO THE FLOWLINE OF GRATE. ALL STORM DRAIN INLETS WILL BE TYPE "A" UNLESS OTHERWISE NOTED ON THE PLANS.

43 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.

44 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.

45 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.

46 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.

47 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.

48 ALL RIP-RAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL CONFORMING TO THE SIZE AND MATERIAL PROPERTY REQUIREMENTS SET FORTH IN THE C.O.A. STANDARD SPECIFICATIONS. NO BROKEN CONCRETE OR RUBBLE WILL BE ACCEPTED.

49 PNM REQUESTS A MINIMUM OF 72 HOURS NOTICE PRIOR TO SUPPORT WORK BEING REQUIRED.

50 CONTACT PNM REPRESENTATIVE MIKE DAVIS AT 241-3307 A MINIMUM OF ONE (1) WEEK PRIOR TO OUTAGES AND CABLE SUPPORT REQUIREMENTS.

NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER
- EXISTING BLOCK WALL
- EXISTING WATER VALVE
- NEW WATER VALVE
- EXISTING CATCH BASIN
- NEW CATCH BASIN
- EXISTING WATER METER
- EXISTING MANHOLE
- NEW MANHOLE
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- POTHOLE
- EXISTING TRAFFIC LIGHT
- DRIVE PAD
- EXISTING ASPHALT PAVEMENT
- C.O.A. CITY OF ALBUQUERQUE
- EXISTING CONCRETE PAVEMENT
- x 5287.5 EXISTING SPOT ELEVATION
- 75 EXISTING CONTOUR LINE
- EXISTING TREE
- EXISTING MANHOLE
- NEW MANHOLE
- NEW WATER LINE
- NEW STORM DRAIN
- CENTERLINE
- NEW PAVEMENT AND CURB-AND-GUTTER

AS BUILT INFORMATION
CONTRACTOR [illegible]
STAKED BY [illegible] DATE
INSPECTED BY [illegible] DATE
FIELD VERIFICATION BY [illegible] DATE
CORRECTED BY [illegible] DATE

BENCH MARKS
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

SURVEYING
CONTROL INC.

ENGINEER'S SEAL
PATRICK J. COMLEY NEW MEXICO (10141) REGISTERED PROFESSIONAL ENGINEER
9/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY TVD	DATE 3/96
		DRAWN BY RAN / JCS	DATE 3/96
		CHECKED BY P.J.C.	DATE 3/96

195106-SE1
Smith Engineering Company
A Full Service Engineering Company
[illegible]

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
GENERAL NOTES AND LEGEND

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer or Agent: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92
Zone Map No. L-21
Sheet 2 of 29

Drawing name: C:\BAC\PROJECTS\JUANTABO\GNOTES-2.DWG
Saved on: September 3, 1996 at 4:08 PM
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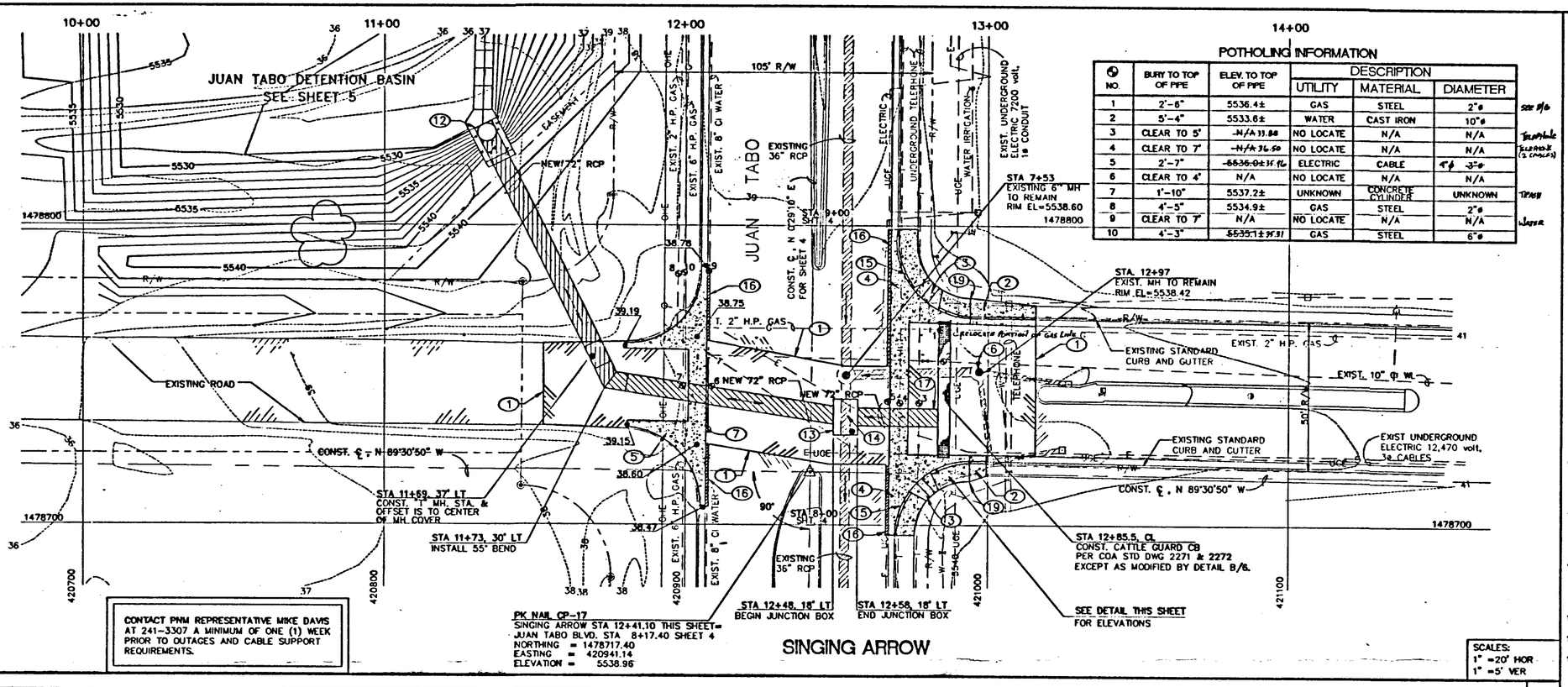


CONTACT PNM REPRESENTATIVE MIKE DAVIS AT 241-3307 A MINIMUM OF ONE (1) WEEK PRIOR TO OUTAGES AND CABLE SUPPORT REQUIREMENTS.

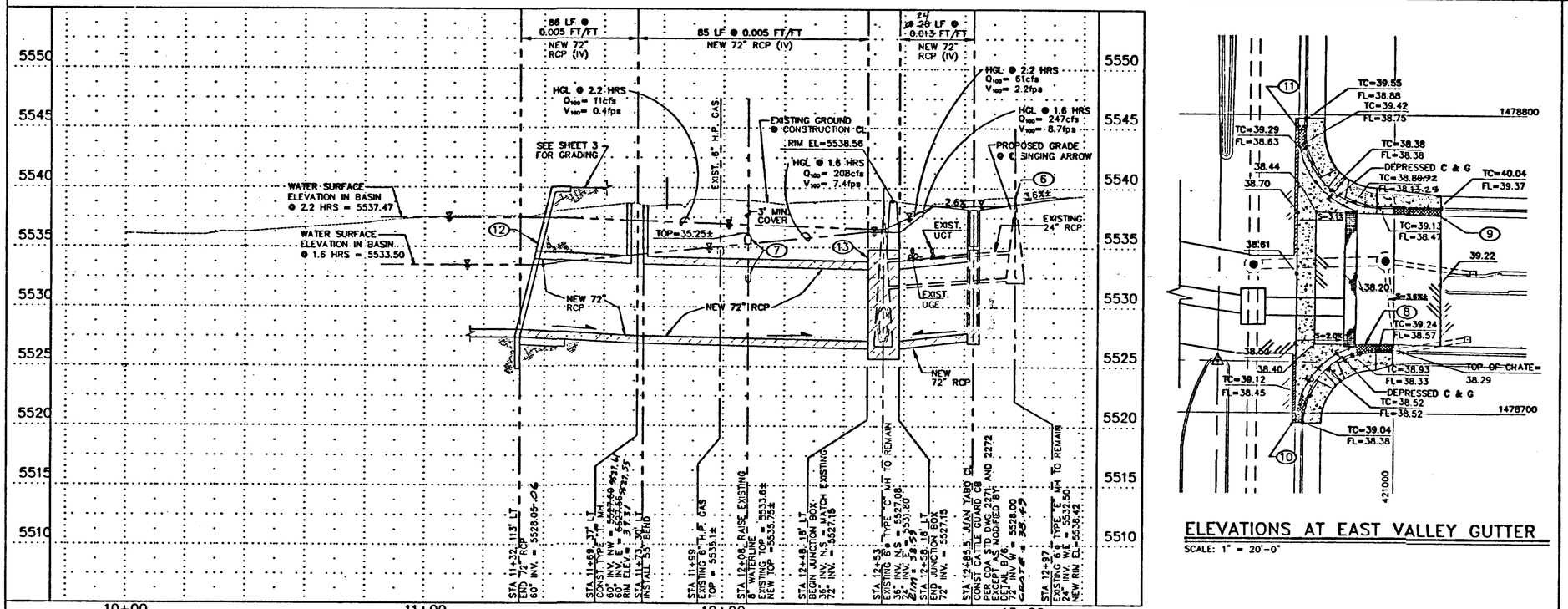
POTHOLING INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. TO TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
1	2'-6"	5536.4±	GAS	STEEL	2"ø
2	5'-4"	5533.6±	WATER	CAST IRON	10"ø
3	CLEAR TO 5'	~~N/A 11.86~~	NO LOCATE	N/A	N/A
4	CLEAR TO 7'	~~N/A 36.50~~	NO LOCATE	N/A	N/A
5	2'-7"	~~5536.04 ± ft~~	ELECTRIC	CABLE	~~4"ø~~ 3"ø
6	CLEAR TO 4'	N/A	NO LOCATE	N/A	N/A
7	1'-10"	5537.2±	UNKNOWN	CONCRETE CYLINDER	UNKNOWN
8	4'-5"	5534.9±	GAS	STEEL	2"ø
9	CLEAR TO 7'	N/A	NO LOCATE	N/A	N/A
10	4'-3"	~~5535.1 ± ft~~	GAS	STEEL	6"ø

KEYED NOTES:

1. PAYMENT LIMITS FOR ASPHALT REMOVAL AND REPLACEMENT. MATCH EXISTING GRADES, EXCEPT AS OTHERWISE SHOWN. SAWCUT ASPHALT PRIOR TO PLACING NEW ROAD SECTION. SEE DETAIL C/8.
2. REMOVE AND REPLACE EXISTING SIDEWALK AND WHEEL CHAIR RAMP. MATCH EXISTING SIDEWALK GRADE AT REMOVAL LINE.
3. CONSTRUCT TYPE II WHEEL CHAIR RAMP PER COA STD DWG 2441. BUILD WHEEL CHAIR RAMP UTILIZING INTEGRAL CURB PER ALTERNATE DETAIL SECTION AA AS REQUIRED TO MATCH EXISTING LANDSCAPING GRADE.
4. REMOVE AND REPLACE VALLEY GUTTER PER COA STD DWG 2420. MATCH EXISTING ROAD GRADE ON WEST SIDE OF VALLEY GUTTER. SLOPE NEW VALLEY GUTTER EAST TO GRADES SHOWN.
5. REMOVE AND REPLACE EXISTING VALLEY GUTTER PER COA STD DWG 2420. MATCH EXISTING GRADES.
6. ADJUST EXISTING MANHOLE TO NEW PAVEMENT GRADE.
7. REMOVE AND REPLACE APPROXIMATELY 20-LF OF 8-INCH CAST IRON WATERLINE. SEE DETAIL C/6.
8. CONSTRUCT 12-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 12+87, 3' LT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 12+99, 4' LT).
9. CONSTRUCT 16-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 13+00, 53' LT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 13+16, 53' LT).
10. CONSTRUCT 8-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 12+70, 13' RT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 12+67, 20' RT).
11. CONSTRUCT 8-FOOT TRANSITION FROM DEPRESSED CURB AND GUTTER (SINGING ARROW STA 12+69, 73' LT) TO STANDARD CURB AND GUTTER (SINGING ARROW STA 12+68, 81' LT).
12. CONSTRUCT OUTLET PER DETAIL A/7.
13. CONSTRUCT NEW JUNCTION BOX. SEE DETAIL A/8.
14. REMOVE AND DISPOSE OF APPROXIMATELY 12-LF OF EXISTING 36-INCH RCP FOR INSTALLATION OF THE NEW JUNCTION BOX.
15. CONSTRUCT NEW CURB AND GUTTER TO MATCH EXISTING RETURN RADII.
16. REMOVE AND REPLACE ASPHALT 1'-0" FROM VALLEY GUTTER.
17. CONCRETE PIPE SUPPORT COMING FROM CATTLE GUARD PER NOTE "A", COA STD DWG 2101. SUPPORT TO BE A MINIMUM 4' LONG.
18. SHUTOFF WATER VALVES 993 AND 992 AND 651 TO PERFORM WATERLINE WORK.
19. TRANSITION FROM 8-FOOT WIDE TO 4-FOOT WIDE SIDEWALK AT SINGING ARROW STA 12+94.

SCALES:
1" =20' HOR
1" =5' VER



ELEVATIONS AT EAST VALLEY GUTTER
SCALE: 1" = 20'-0"

NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

N
20' 10' 0 20' 40'
SCALE: 1" = 20'

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, NE Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
PLAN AND PROFILE
SINGING ARROW STROM DRAIN STA 10+00 TO STA 14+00

Design Review Committee: REVIEWED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: REVIEWED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 3 of 29

SURVEY INFORMATION
FIELD NOTES BY: STEPHEN JAMES, TOLER | DATE: 1/96 | NO.: 111599
SURVEYING: CONTROL INC.

BENCH MARKS
C.O.A. BENCHMARK "1-121(B)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996644849

AS BUILT INFORMATION
CONTRACTOR: DATE
VERIFIED BY: DATE
ACCEPTANCE BY: DATE
FIELD REVISIONS BY: DATE
DRAWING CORRECTED BY: DATE

MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

NO.	DATE	REMARKS	BY
	DESIGN		
	DESIGNED BY TVD	DATE 5/96	
	DRAWN BY BAC	DATE 5/96	
	CHECKED BY PJC	DATE 6/96	

ENGINEER'S SEAL
PATRICK J. LOWLEY
NEW MEXICO
10141
REGISTERED PROFESSIONAL ENGINEER
8/15/96

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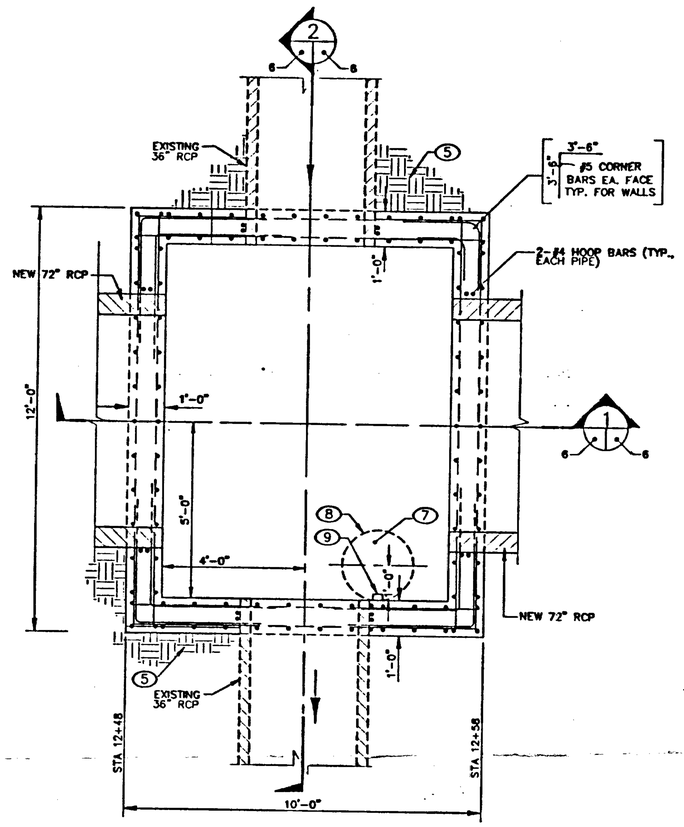


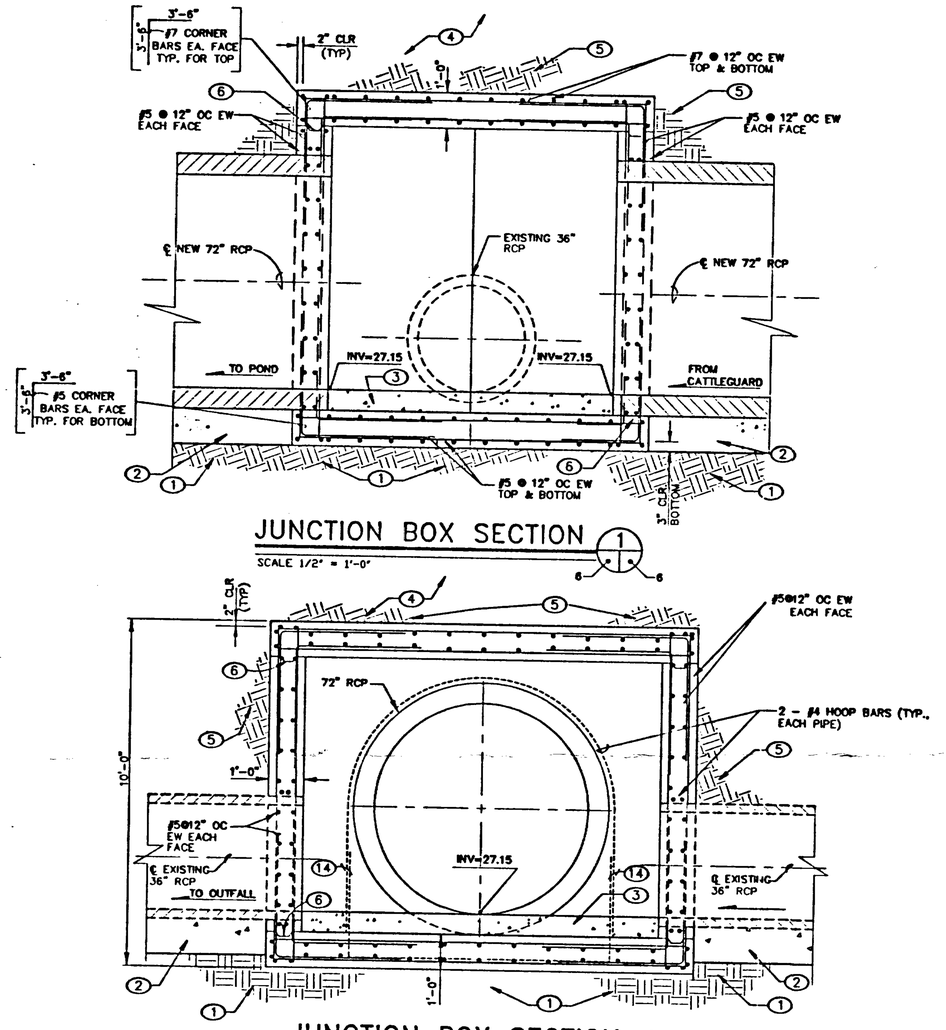
JUNCTION BOX PLAN VIEW

SCALE 1/2" = 1'-0"

A

3 — 6

N



JUNCTION BOX SECTION

SCALE 1/2" = 1'-0"

1

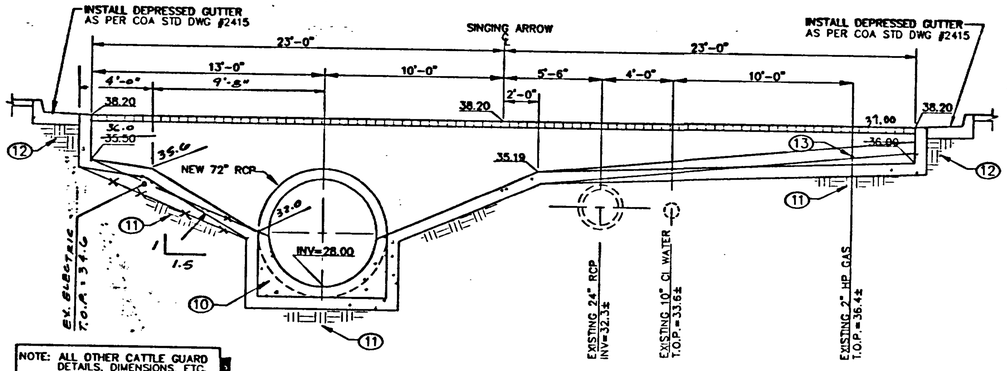
6 — 6

JUNCTION BOX SECTION

SCALE 1/2" = 1'-0"

2

6 — 6



NOTE: ALL OTHER CATTLE GUARD DETAILS, DIMENSIONS, ETC. SHALL BE PER COA STD DWG 2271 AND 2272

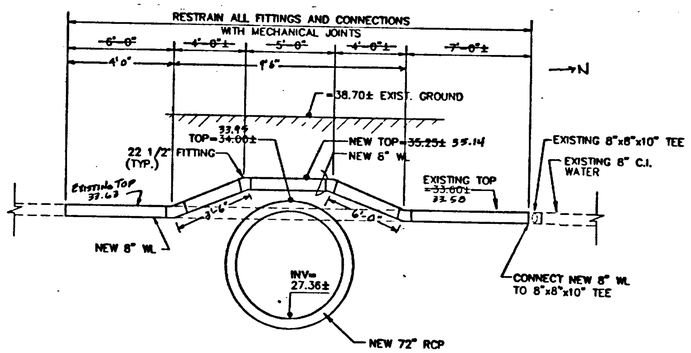
CATTLE GUARD DETAIL

SCALE 1/4" = 1'-0"

(LOOKING WEST)

B

3 — 6



8-INCH WATERLINE REPLACEMENT

SCALE 1/4" = 1'-0"

C

3 — 6

KEYED NOTES:

1. 24-INCHES STRUCTURAL FILL COMPACTED TO 95% ASTM D-1557. COMPACT 12-INCHES SUBGRADE UNDER FILL TO 90% ASTM D-1557.
2. PIPE SUPPORT PER NOTE "A", COA STD DWG 2101. MINIMUM LENGTH TO BE 4-FEET.
3. CONCRETE SHAPING PER NOTE "M", COA STD DWG 2101.
4. SEE PLAN AND PROFILE SHEETS FOR FINISH GRADE ELEVATION ABOVE J-BOX.
5. BACKFILL COMPACTED PER COA STD SPECIFICATIONS.
6. 2" x 4" KEYED CONSTRUCTION JOINT, TYPICAL.
7. INSTALL MANHOLE RISER ON J-BOX PER COA STD. DWG. 2101 FOR TYPE "C" MANHOLE.
8. 24-INCH DIAMETER FORMED OPENING IN TOP OF J-BOX.
9. MANHOLE STEPS PER NOTE "R" ON COA STD DWG 2101.
10. CONCRETE FILL PER NOTE "M" COA STD DWG 2101.
11. COMPACTED SUBGRADE PER COA DETAIL
12. COMPACTED BACKFILL PER COA DETAIL
13. COORDINATE WITH THE GAS COMPANY OF NEW MEXICO FOR RELOCATION OF EXISTING 2-INCH HP GAS.
14. TIE #4 CORNER BAR, 3'-0"x3'-0" ON EACH HOOP BAR AROUND THE NEW 72" RCP.

AS BUILT INFORMATION

CONTRACTOR — DATE

WORK STAKED BY — DATE

ACCEPTANCE BY — DATE

FIELD VERIFICATION BY — DATE

DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE

BENCH MARKS

C.O.A. BENCHMARK "1-L21(B)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.

ELEV = 5534.627 FT

GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47

GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99

GROUND TO GRID FACTOR = 0.999644849

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

SURVEYING CONTROL, INC.

ENGINEER'S SEAL

PATRICK J. COMLEY NEW MEXICO (10141) REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		TVD	DATE 3/96
DRAWN BY		RAN/BAC/JCS	DATE 3/96
CHECKED BY		PJC	DATE 3/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

DRAINAGE DETAILS

Design Review Committee: APPROVED — SEP 16 1996 — DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED — SEP 16 1996 — CITY ENGINEER

Last Design Update

City Project No. 4790.92

Zone Map No. L-21

Sheet 6 of 29

Drawing name: C:\BAC\PROJECTS\JUANTABO\JUANDTL1.DWG
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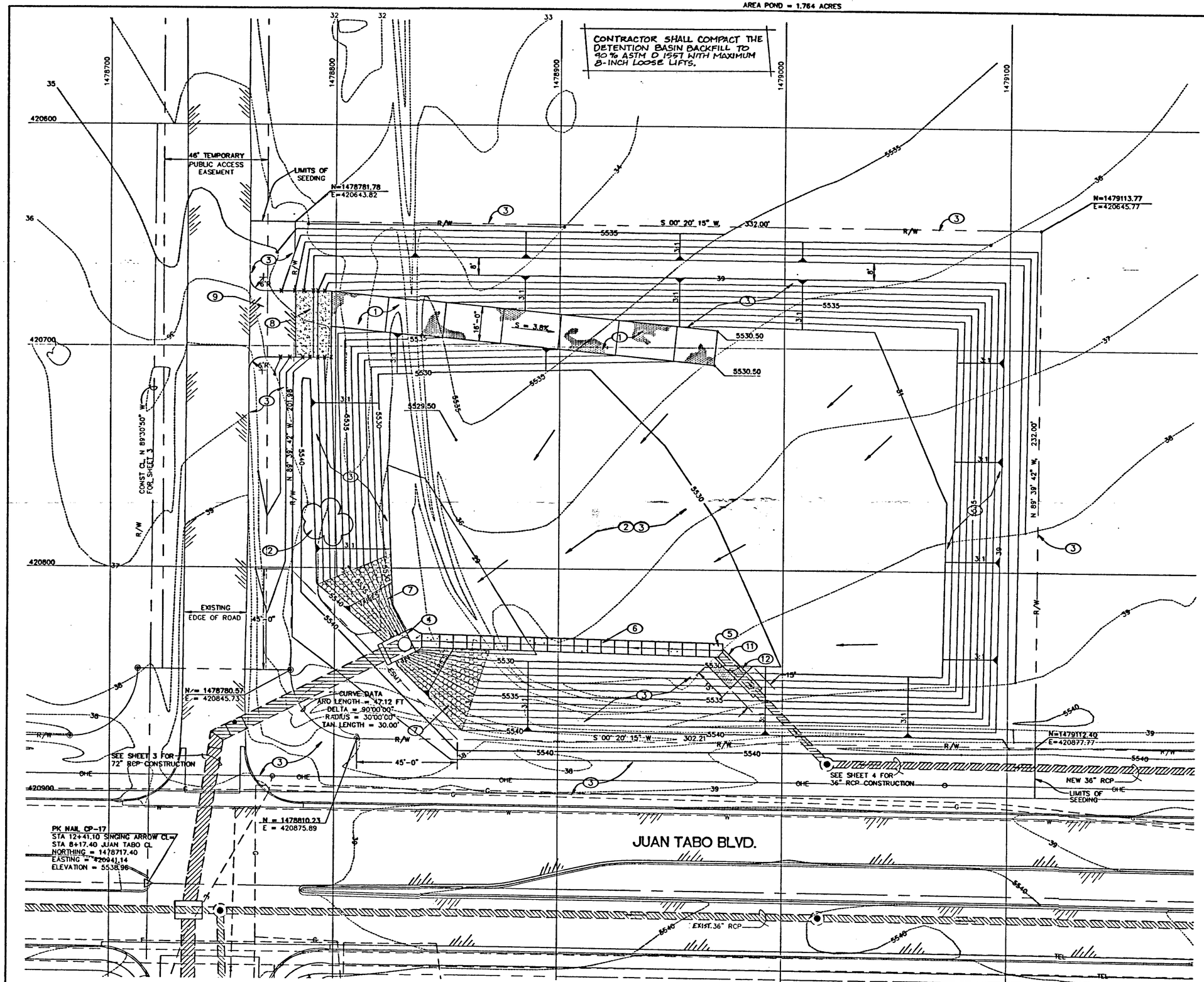


KEYED NOTES:

1. CONSTRUCT 16-FOOT WIDE ACCESS RAMP FROM EMERGENCY SPILLWAY TO BOTTOM OF BASIN SEE DETAIL D/8.
2. CLEAR AND GRUB AREA WITHIN RIGHT-OF-WAY SHOWN ON THIS SHEET. CLEARING SHALL INCLUDE REMOVAL AND DISPOSAL OF CONCRETE AND ASPHALT RUBBLE, TRASH, TREES, AND BOULDERS.
3. PLACE CLASS "A" NATIVE SEEDING WITHIN THE JUAN TABO DETENTION BASIN RIGHT-OF-WAY AND ALONG SINGING ARROW ROAD AND JUAN TABO BOULEVARD.
4. CONSTRUCT 72" OUTLET PIPE APRON PER DETAIL A/7.
5. CONSTRUCT 36" INLET PIPE CHANNEL PER DETAIL B/8.
6. CONSTRUCT CONCRETE SWALE CHANNEL PER DETAIL C/7.
7. PLACE 6-INCH DIAMETER TYPE VL RIPRAP, 12-INCH THICK, ON BASIN SLOPES LESS THAN 3:1.
8. CONSTRUCT EMERGENCY SPILLWAY PER DETAIL A/8.
9. CONSTRUCT EMERGENCY SPILLWAY ASPHALT APRON PER DETAIL E/8.
10. NOT USED.
11. CONSTRUCT CONCRETE PIPE SUPPORT PER DETAIL B/8.
12. PLACE 6-INCH DIAMETER TYPE VL RIPRAP, 12-INCH THICK, ON FACE OF SLOPE AROUND NEW 36" RCP.

NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

DETENTION POND DATA

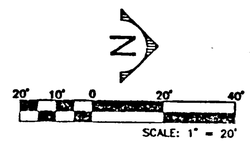
100-YEAR MAXIMUM WATER SURFACE ELEVATION = 5537.47

EMERGENCY SPILLWAY ELEVATION = 5537.50

FLOW FROM EMERGENCY SPILLWAY AT ELEVATION 5539.0 = 147 cfs

STAGE - STORAGE

ELEVATION (ft)	STORAGE (ac-ft)
5528.05	0.00
5529.00	0.02
5530.00	0.24
5531.00	0.87
5532.00	1.74
5533.00	2.68
5534.00	3.69
5535.00	4.80
5536.00	6.02
5537.00	7.39
5537.50	8.10
5538.00	8.87
5539.00	10.81



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8400 Uptown Boulevard, N.E. Suite 560E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

JUAN TABO DETENTION BASIN PLAN

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER

Last Design Update: No. / Sig / Yr. / No. / Sig / Yr.

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 5 of 29

AS BUILT INFORMATION

CONTRACTOR: EMCI

	BY	DATE
WORKS BY	GCA/Colonial	
INSPECTORS ACCEPTANCE BY	Gene Seidel	
VERIFICATION BY	GCA/Seidel	
DRAWINGS BY	EMCI	
GROUND COORDINATES: NORTHING = 1481380.42		
EASTING = 420892.47		
GRID COORDINATES: NORTHING = 1480854.31		
EASTING = 420742.99		
GROUND TO GRID FACTOR = 0.999644849		
RECORDED BY		
NO.		

BENCH MARKS

C.O.A. BENCHMARK "L-21(8)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT

SURVEY INFORMATION

FIELD NOTES	BY	DATE
NO.		
11599	STEPHEN JAMES	1/96
	TOLER	
SURVEYING		
CONTROL INC.		

ENGINEER'S SEAL: PATRICK J. COMLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER 8/5/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DATE 3/96		TVD
DRAWN BY	DATE 3/96		BAC
CHECKED BY	DATE 3/96		PJC

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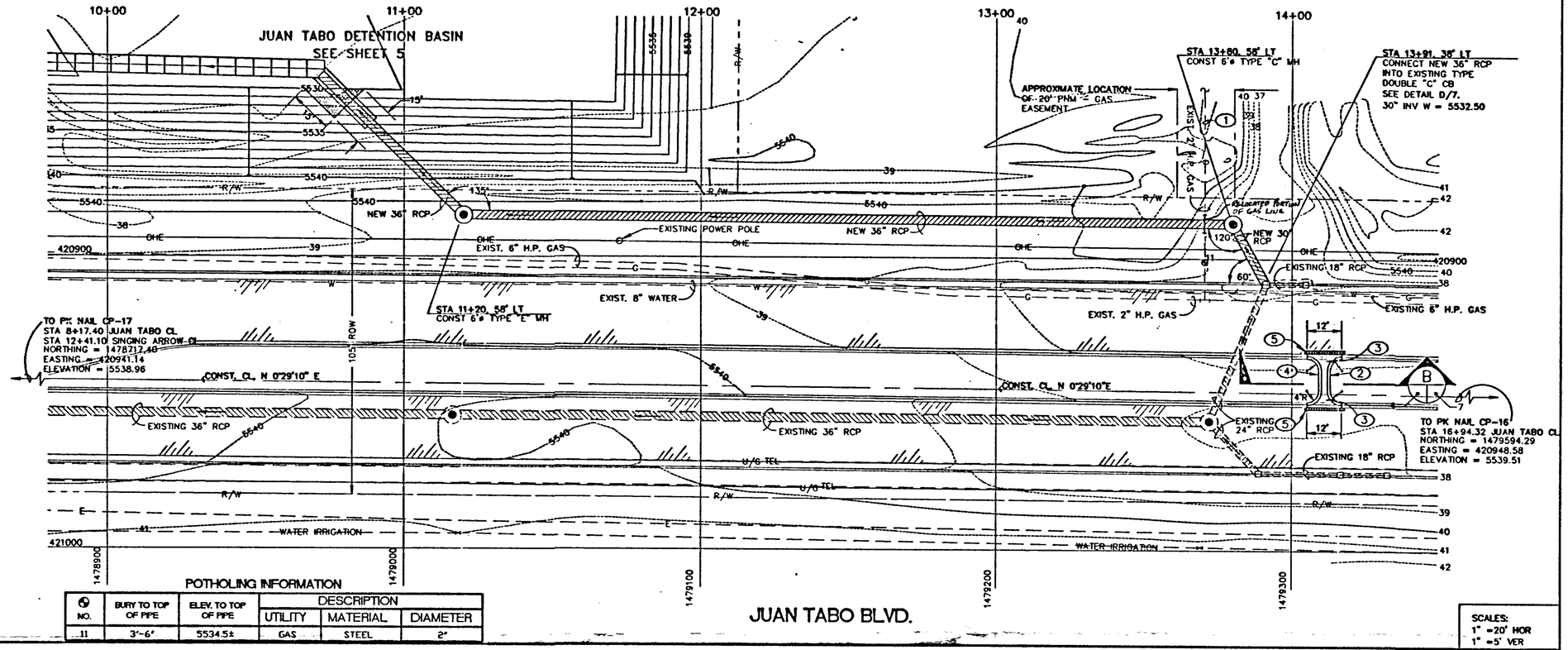


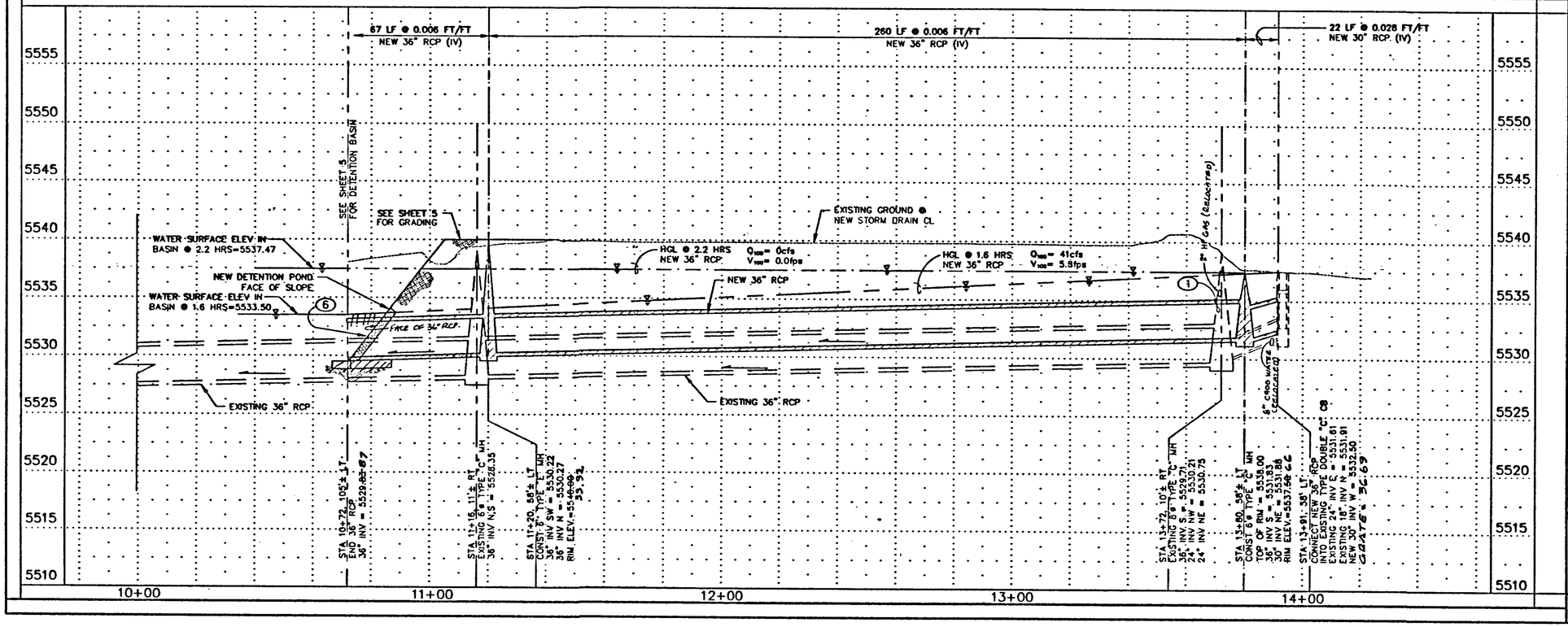
POTHOLING INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. TO TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
11	3'-6'	5534.5±	GAS	STEEL	2"

KEYED NOTES:

1. COORDINATE WITH THE GAS COMPANY OF NEW MEXICO FOR RELOCATION OF EXISTING 2-INCH H.P. GAS.
2. CONSTRUCT 4-FOOT WIDE MEDIAN CUT PER DETAIL B/7. COORDINATE WITH COA INSPECTOR ON EXACT LOCATION.
3. REMOVE AND DISPOSE OF EXISTING MEDIAN CURB-AND-GUTTER TO LIMITS SHOWN. MATCH EXISTING MEDIAN CURB AND GUTTER.
4. REMOVE AND DISPOSE OF ASPHALT IN MEDIAN FOR MEDIAN CUT.
5. REMOVE AND REPLACE ASPHALT 1"-0" FROM LIP OF MEDIAN CURB. PATCH EXISTING ASPHALT PER COA STD DWG 2465. NEW ASPHALT THICKNESS TO BE EXISTING PLUS 2-INCHES.
6. PLACE 6-INCH DIAMETER TYPE VL RIPRAP, 12-INCH THICK, ON FACE OF SLOPE, AROUND NEW 36" RCP.

SCALES:
1" =20' HOR
1" =5' VER



NOTE:
ALL NORTHING AND EASTING COORDINATES ARE MODIFIED STATE PLANE (GROUND) UNLESS OTHERWISE STATED.

N

20' 10' 0 20' 40'
SCALE: 1" = 20'

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
5486 Uptown Boulevard, NE Suite 0005 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
PLAN AND PROFILE
JUAN TABO STORM DRAIN STA 10+00 TO STA 14+00

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: No. / Day / Yr.

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 4 Of 29

SURVEY INFORMATION
FIELD NOTES BY: STEPHEN JAMES, TOLER
DATE: 1/96
NO. 11599
SURVEYING CONTROL INC.

BENCH MARKS
C.O.A. BENCHMARK "1-L21(R)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481,380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.98
GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION
CONTRACTOR
SIDE STAKES BY
ASPHALT BY
FIELD VERIFICATION BY
BM/ACAD CORRECTED BY
DATE

MICRO-FILM INFORMATION
RECORDED BY
DATE

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY TVD DATE 3/96
DRAWN BY BAC DATE 3/96
CHECKED BY PJC DATE 3/96

ENGINEER'S SEAL
PATRICK J. CONLEY NEW MEXICO (10141) REGISTERED PROFESSIONAL ENGINEER
4/15/96

Drawing name: C:\BAC\PROJECTS\JUANTABO\JT-PNP.DWG
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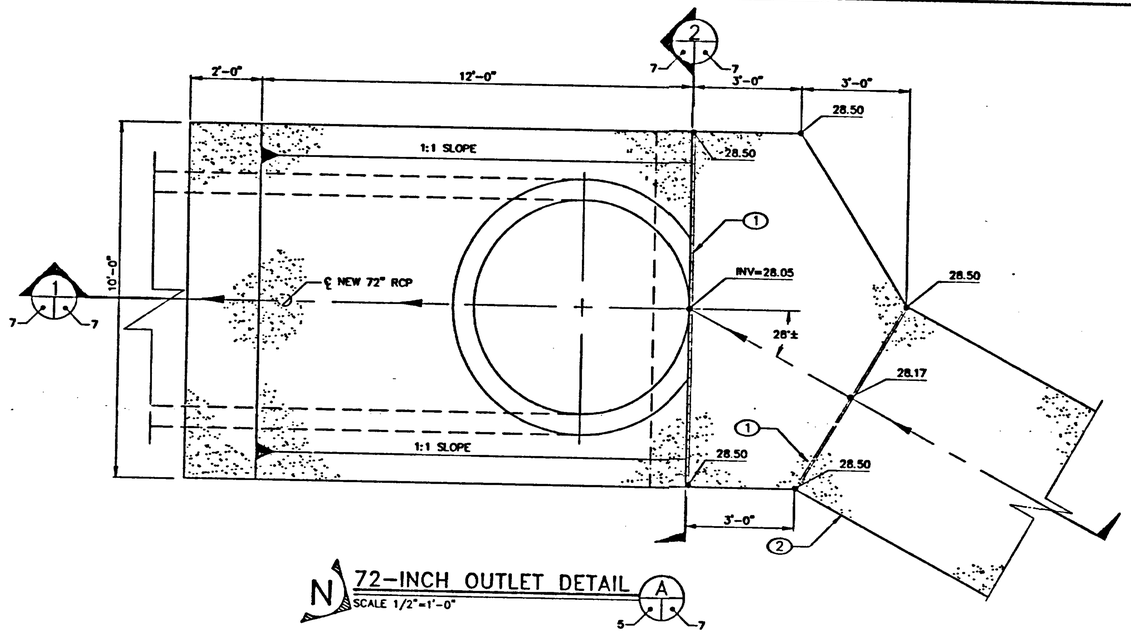
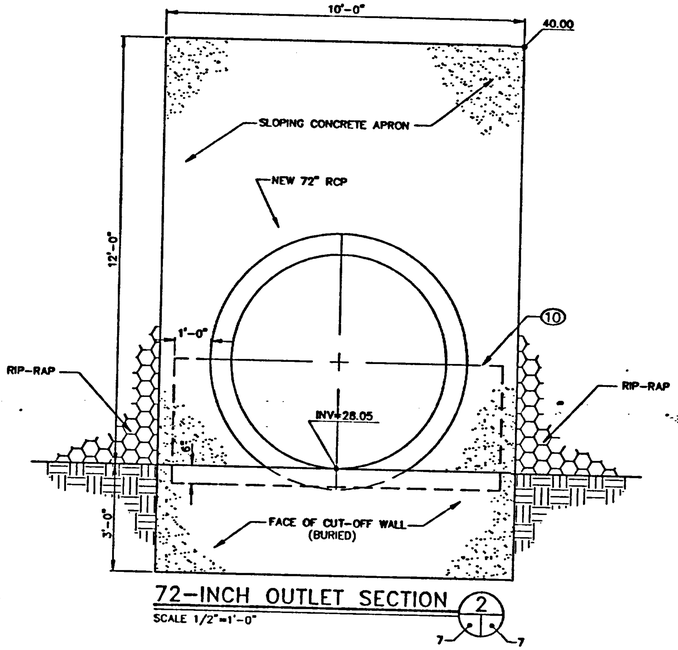
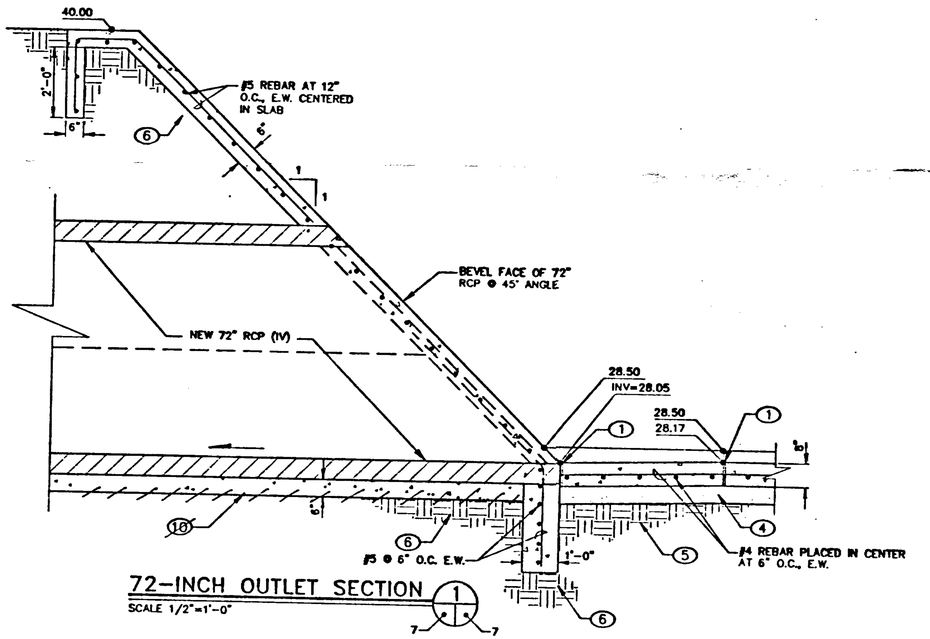


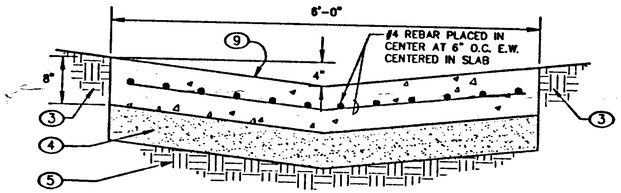
N 72-INCH OUTLET DETAIL A
SCALE 1/2"=1'-0"



72-INCH OUTLET SECTION 2
SCALE 1/2"=1'-0"

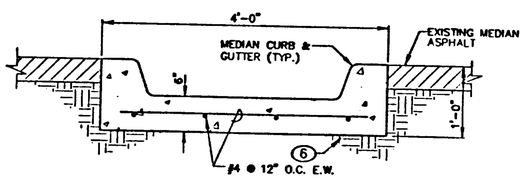


72-INCH OUTLET SECTION 1
SCALE 1/2"=1'-0"



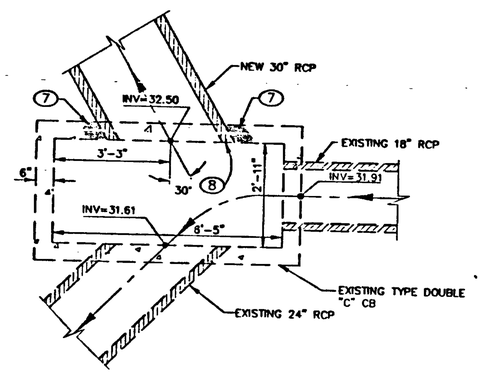
1/2" EXPANSION JOINTS @ 18' O.C. AND SCORE @ 6' O.C.

CONCRETE SWALE DETAIL C
SCALE 1"=1'-0"



JUAN TABO MEDIAN CUT DETAIL B
SCALE 1"=1'-0"

NOTE: ALL CURB AND GUTTER DETAILS AND DIMENSIONS SHALL BE PER COA STD DWG 2415



N 30-INCH CATCH BASIN CONNECTION D
SCALE 1/2"=1'-0"

KEYED NOTES:

1. INSTALL 1/2" EXPANSION JOINT AS PER COA STD DWG. 2260
2. CONSTRUCT CONCRETE SWALE AS PER DETAIL C, THIS SHEET
3. BACKFILL COMPACTED PER COA DETAIL
4. 6-INCH AGGREGATE BASE COURSE COMPACTED TO 95% OF ASTM D-1557
5. 6-INCH SUBGRADE COMPACTED TO 95% OF ASTM D-1557
6. 12-INCH SUBGRADE COMPACTED TO 95% OF ASTM D-1557
7. GROUT AROUND NEW 30-INCH RCP WITH NON SHRINK GROUT.
8. BEVEL 30-INCH RCP SO EDGE IS FLUSH WITH INSIDE WALL OF CATCH BASIN.
9. INSTALL 1/2" EXPANSION JOINTS AT 18-FEET O.C. AND SEAL WITH 1/2"x1/2" SEALANT. SCORE CONTRACTION JOINTS AT 6-FEET O.C.
10. PLACE 18-LF OF CONCRETE PIPE SUPPORT PER NOTE "A", COA STD DWG 2101.

AS BUILT INFORMATION
CONTRACTOR _____ DATE
WORK STAKED BY _____ DATE
SYSTEM ACCEPTANCE BY _____ DATE
FIELD EASTING BY _____ DATE
DRAWINGS REVISED BY _____ DATE
MICRO-FILM INFORMATION
RECORDED BY _____ DATE

BENCH MARKS
C.O.A. BENCHMARK "1-L21(6)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 1420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 1420742.99
GROUND TO GRID FACTOR = 0.999644849

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

SURVEYING
CONTROL INC.

ENGINEER'S SEAL
PATRICK J. CONLEY
NEW MEXICO
10818
REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS / REVISIONS	DESIGN	BY
			DESIGNED BY TVD	DATE 3/96
			DRAWN BY RAN/BAC/JCS	DATE 3/96
			CHECKED BY PJC	DATE 3/96

195106-SE1
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

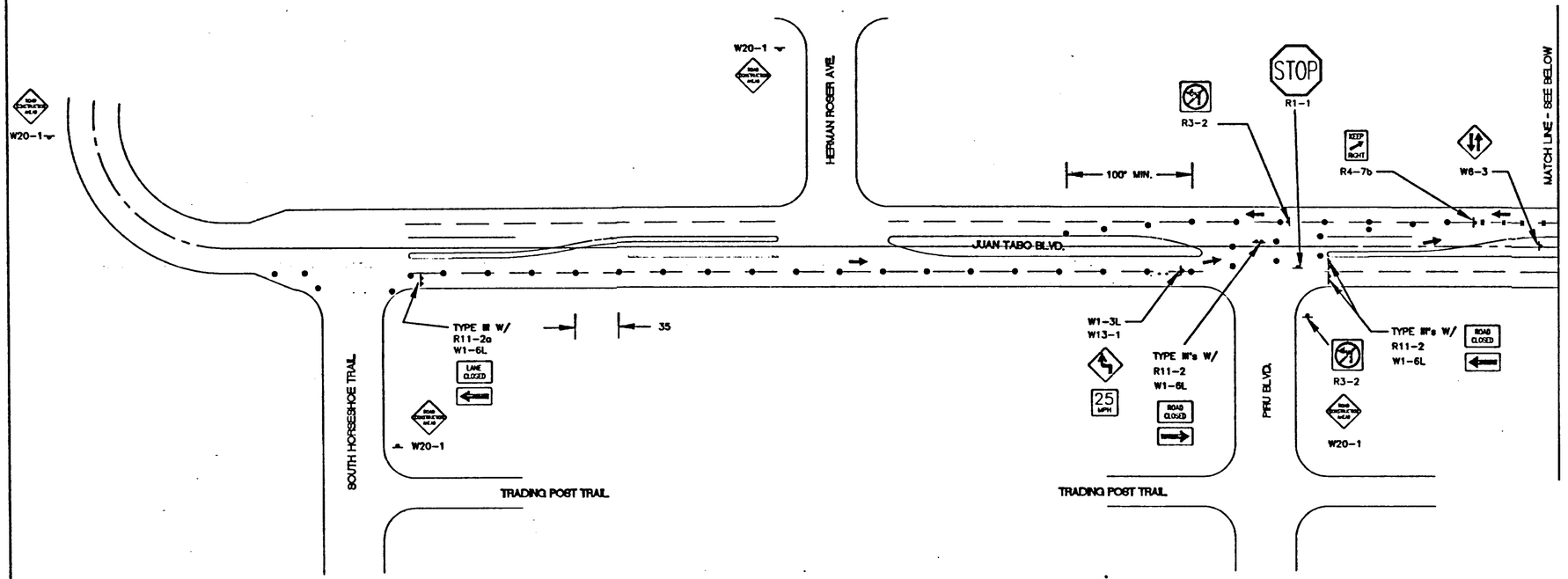
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

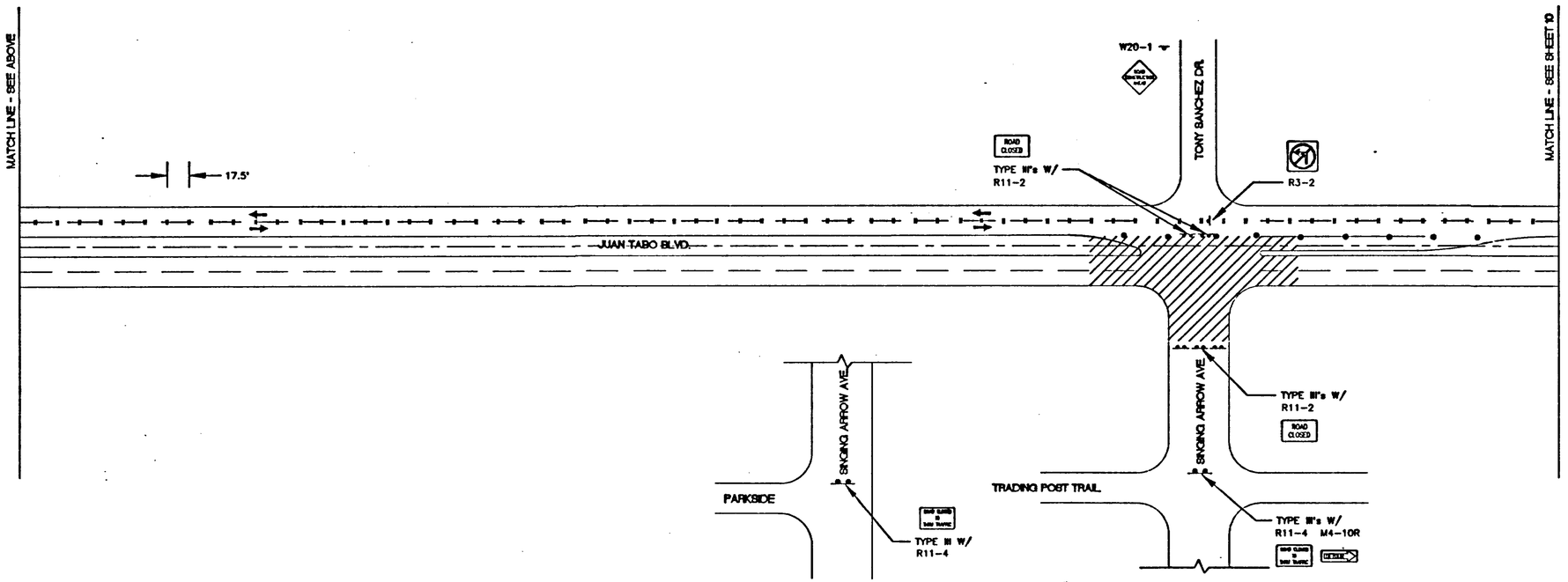
TITLE: JUAN TABO DETENTION BASIN
DRAINAGE DETAILS

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: _____ / Dwg / Init.
_____ / Dwg / Init.

City Project No. 4790.92
Zone Map No. L-21
Sheet 7 of 29

Drawing name: C:\BAC\PROJECTS\JUANTABO\JUANDTL2.DWG
Saved on: August 8, 1996 at 7:25 AM
This is plot #: 3
Plotted on: August 8, 1996 at 7:25 AM





LEGEND

- → INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE–TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES – MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

50' 25' 0 50' 100'
SCALE: 1" = 50'

195106–SE1

Smith Engineering Company
A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
TRAFFIC CONTROL PLAN: PHASE I

Traffic Engineering: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 9 Of 29

ENGINEER'S SEAL
PATRICK J. COLLEY NEW MEXICO 10101 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REVISIONS	BY
		DESIGN	JGS
			DATE 5/96
		DRAWN BY	ALM/JCS
			DATE 5/96
		CHECKED BY	PJC
			DATE 6/96

AS BUILT INFORMATION
CONTRACTOR
SIGNED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS CERTIFIED BY DATE

BENCH MARKS
C.O.A. BENCHMARK "1-L21(R)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996644849

SURVEY INFORMATION
FIELD NOTES
NO. 11599 BY STEPHEN JAMES TOLER DATE 1/96
FROM: SURVEYING CONTROL INC.

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

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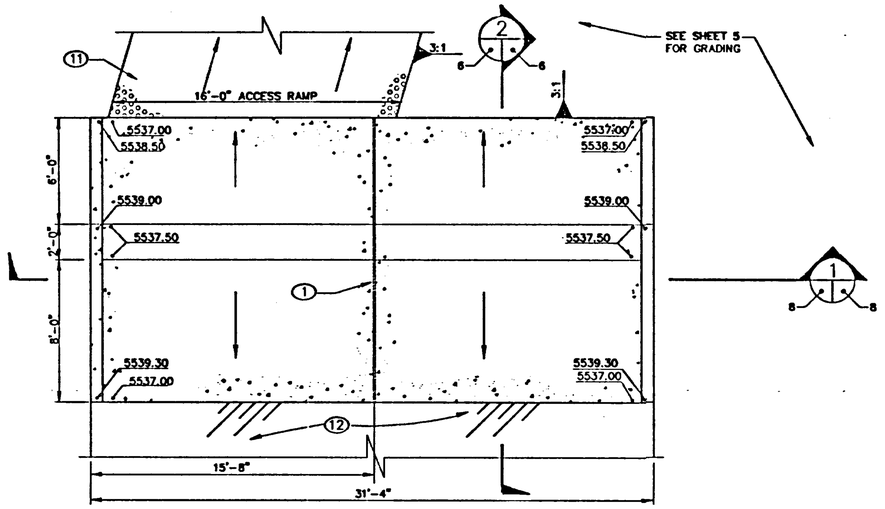
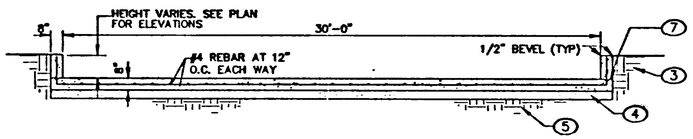
No. x-ref's: 2



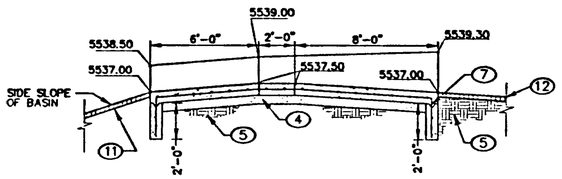
EMERGENCY SPILLWAY PLAN VIEW

SCALE 1/4" = 1'-0"



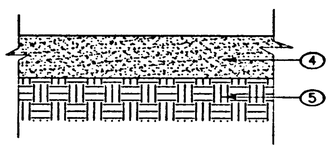
EMERGENCY SPILLWAY SECTION

SCALE 1/4" = 1'-0"



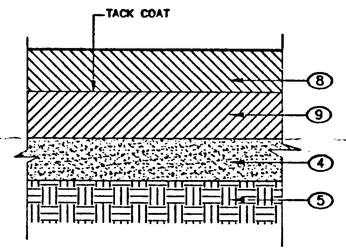
EMERGENCY SPILLWAY SECTION

SCALE 1/4" = 1'-0"



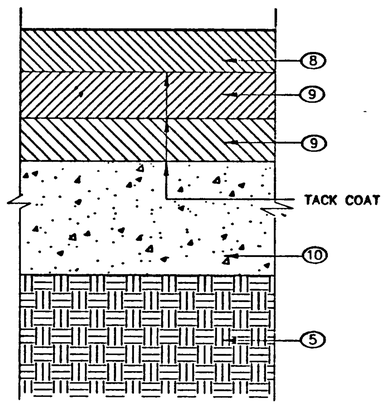
TYPICAL ACCESS RAMP SECTION

SCALE: N.T.S.



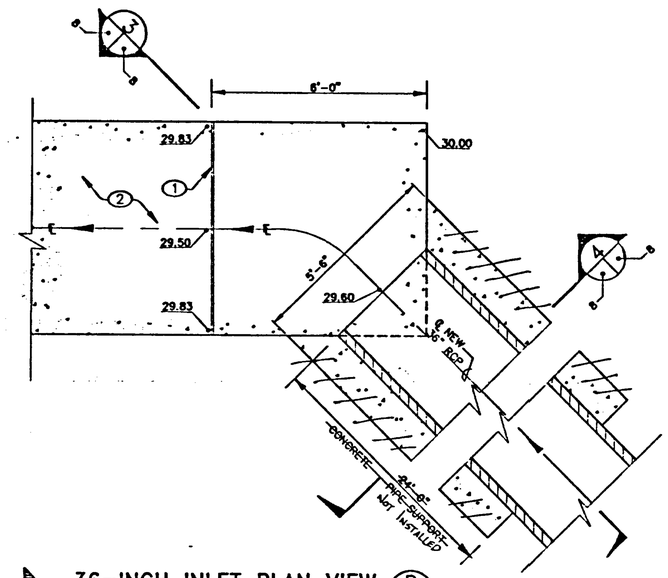
TYPICAL EMERGENCY SPILLWAY ASPHALT APRON SECTION

SCALE: N.T.S.



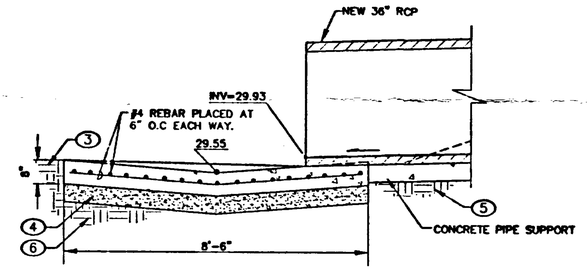
TYPICAL PAVEMENT SECTION FOR JUAN TABO BLVD. & SINGING ARROW RD.

SCALE: N.T.S.



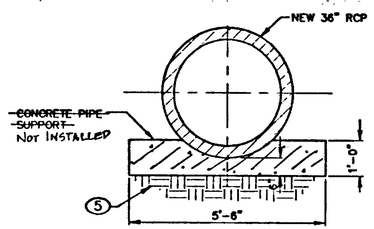
36-INCH INLET PLAN VIEW

SCALE 1/2"=1'-0"



36-INCH INLET SECTION

SCALE 1/2"=1'-0"



36-INCH INLET SECTION

SCALE 1/2"=1'-0"

KEYED NOTES:

1. INSTALL 1/2" EXPANSION JOINT AS PER COA STD DTL 2260.
2. CONSTRUCT CONCRETE SWALE AS PER DETAIL THIS SHEET.
3. COMPACTED BACKFILL PER COA SPECIFICATIONS.
4. 6-INCH COMPACTED AGGREGATE BASE COURSE TO 95% ASTM D-1557.
5. 12-INCH SUBGRADE COMPACTED TO 95% ASTM D-1557.
6. 6-INCH SUBGRADE COMPACTED TO 95% ASTM D-1557.
7. 2"x4" KEYED CONSTRUCTION JOINT.
8. 1-1/2" ARTERIAL SURFACE COURSE ASPHALTIC CONCRETE 1800 M. TYPE "B"
9. 1-1/2" ARTERIAL BASE COURSE ASPHALTIC CONCRETE 1800 M. TYPE "B"
10. 4" BITUMINOUS STABILIZED BASE.
11. CONSTRUCT ACCESS RAMP PER DETAIL D/8.
12. CONSTRUCT EMERGENCY SPILLWAY ASPHALT APRON SECTION PER DETAIL E/8.

AS BUILT INFORMATION

CONTRACTOR — DATE
STAKED BY — DATE
ACCEPTANCE BY — DATE
FIELD INSPECTION BY — DATE
DRAWINGS BY — DATE

BENCH MARKS

C.O.A. BENCHMARK "1-21(R)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996644849

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JANES	1/96
	TOLER	

SURVEYING
CONTROL, INC.

ENGINEER'S SEAL

PATRICK J. CONLEY — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 8/5/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY TVD DATE 3/96
DRAWN BY RAN/BAC/JCS DATE 3/96
CHECKED BY PJC DATE 3/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
8440 Jefferson Boulevard, N.E. Suite 8000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
DRAINAGE DETAILS

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: No. / Dwg / Sh. — No. / Dwg / Sh.

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 8 of 29

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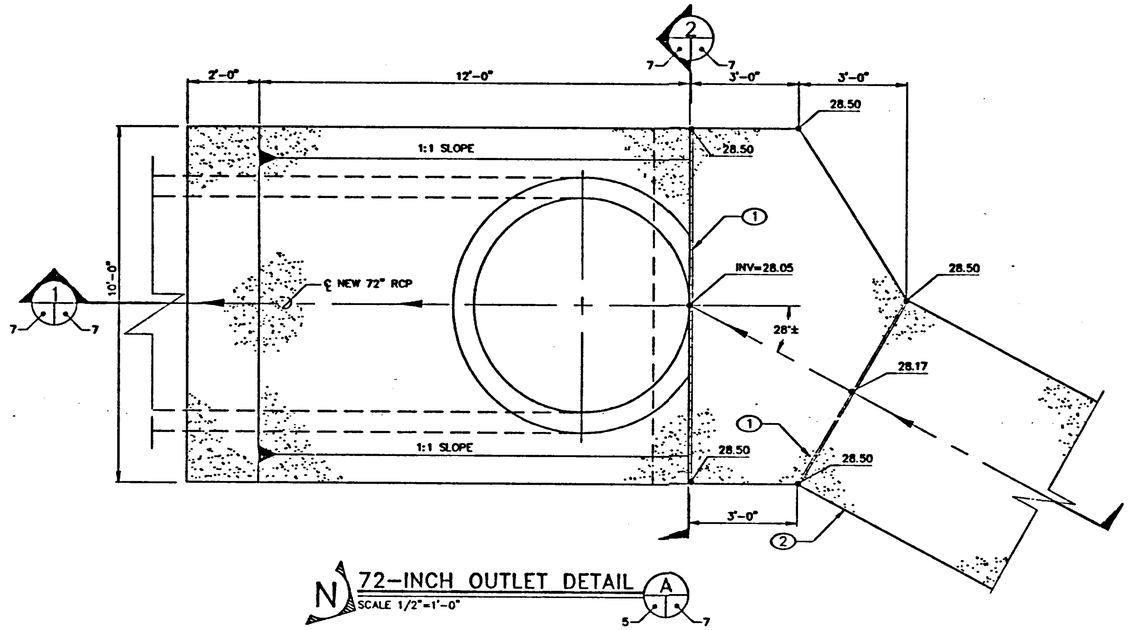
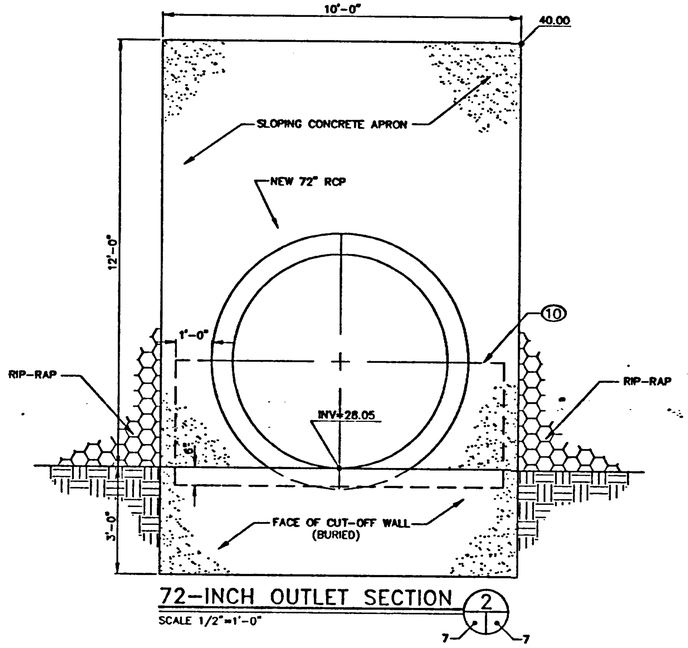
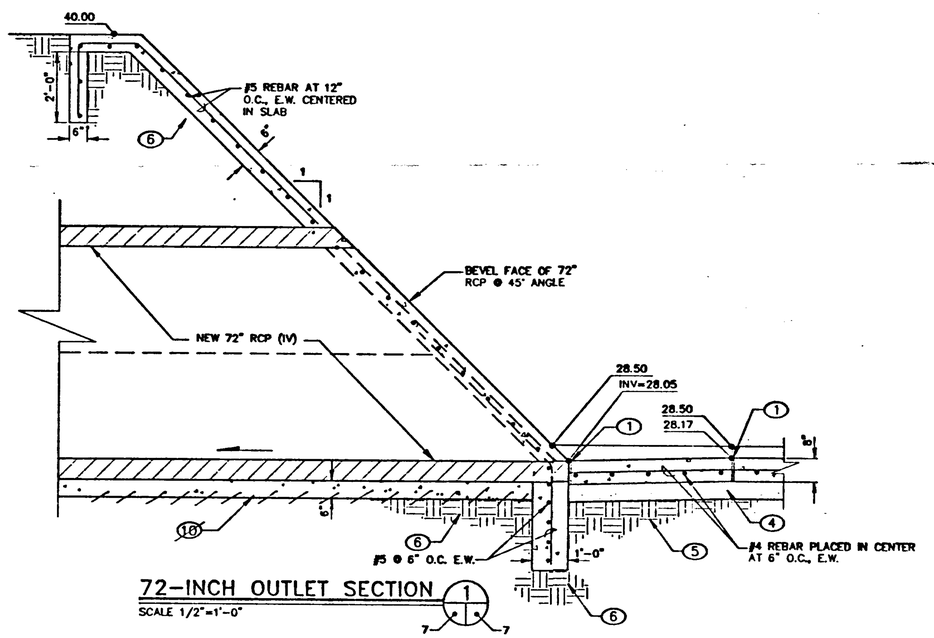
This is plot # 2 Plotted on: August 8, 1996 at 7:37 AM



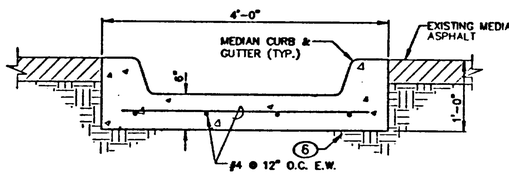
72-INCH OUTLET DETAIL
SCALE 1/2"=1'-0"



72-INCH OUTLET SECTION
SCALE 1/2"=1'-0"

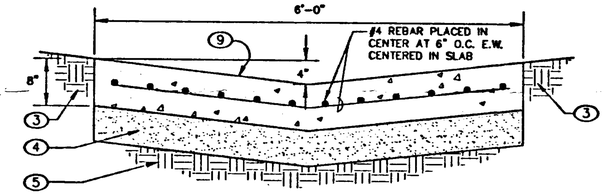


72-INCH OUTLET SECTION
SCALE 1/2"=1'-0"



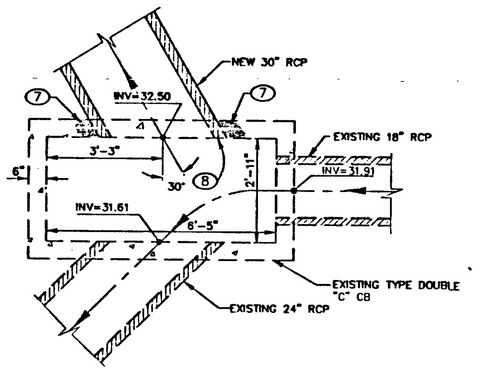
JUAN TABO MEDIAN CUT DETAIL
SCALE 1"=1'-0"

NOTE: ALL CURB AND GUTTER DETAILS AND DIMENSIONS SHALL BE PER COA STD DWG 2415



1/2" EXPANSION JOINTS @ 18' O.C. AND SCORE @ 6" O.C.

CONCRETE SWALE DETAIL
SCALE 1"=1'-0"



30-INCH CATCH BASIN CONNECTION
SCALE 1/2"=1'-0"

KEYED NOTES:

1. INSTALL 1/2" EXPANSION JOINT AS PER COA STD DWG. 2260
2. CONSTRUCT CONCRETE SWALE AS PER DETAIL C, THIS SHEET
3. BACKFILL COMPACTED PER COA DETAIL
4. 6-INCH AGGREGATE BASE COURSE COMPACTED TO 95% OF ASTM D-1557
5. 6-INCH SUBGRADE COMPACTED TO 95% OF ASTM D-1557
6. 12-INCH SUBGRADE COMPACTED TO 95% OF ASTM D-1557
7. GROUT AROUND NEW 30-INCH RCP WITH NON SHRINK GROUT.
8. BEVEL 30-INCH RCP SO EDGE IS FLUSH WITH INSIDE WALL OF CATCH BASIN.
9. INSTALL 1/2" EXPANSION JOINTS AT 18-FEET O.C. AND SEAL WITH 1/2"x1/2" SEALANT. SCORE CONTRACTION JOINTS AT 6-FEET O.C.
10. PLACE 18-LF OF CONCRETE PIPE SUPPORT PER NOTE "A", COA STD DWG 2101.

AS BUILT INFORMATION
CONTRACTOR — DATE
SURVEY BY — DATE
STAKED BY — DATE
FIELD EASTIN BY — DATE
DRAWINGS BY — DATE

BENCH MARK
C.O.A. BENCHMARK "I-L21(R)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT

MICRO-FILM INFORMATION
ROLL
ECOPIES BY
DATE

GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996644849

SURVEY INFORMATION

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

FIELD NOTES

SURVEYING
CONTROL, INC.

ENGINEER'S SEAL
PATRICK J. COMLEY 11599 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		DESIGNED BY TVD DATE 3/96	
		DRAWN BY RAN/BAC/JCS DATE 3/96	
		CHECKED BY PJC DATE 3/96	

195106-SE1
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87109

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
DRAINAGE DETAILS

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 7 of 29

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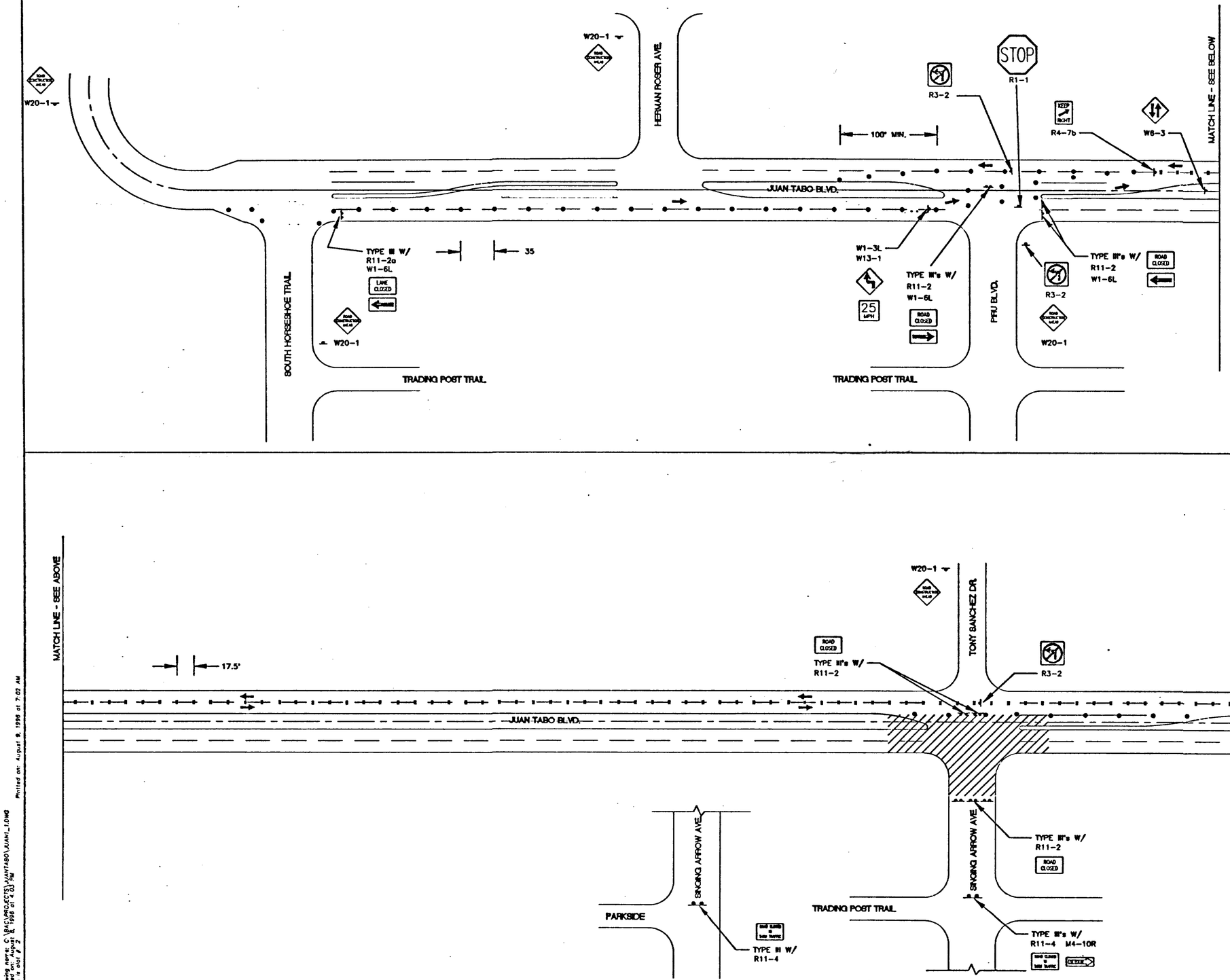

LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES – MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

50' 25' 0 50' 100'
SCALE: 1" = 50'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

FROM SURVEYING CONTROL INC.

BENCH MARKS

C.O.A. BENCHMARK "I-L21(R)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420932.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.9996446849

AS BUILT INFORMATION

CONTRACTOR
DATE
INSPECTED BY
DATE
ACCEPTANCE BY
DATE
VERIFICATION BY
DATE
DRAWINGS BY
DATE

MICRO-FILM INFORMATION

RECORDED BY
DATE
NIL

ENGINEER'S SEAL

PATRICK J. COOLEY NEW MEXICO 10101 REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JCS DATE 5/96
DRAWN BY ALN/JCS DATE 5/96
CHECKED BY PJC DATE 6/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87109

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE I

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92
Zone Map No. L-21
Sheet 9 Of 29

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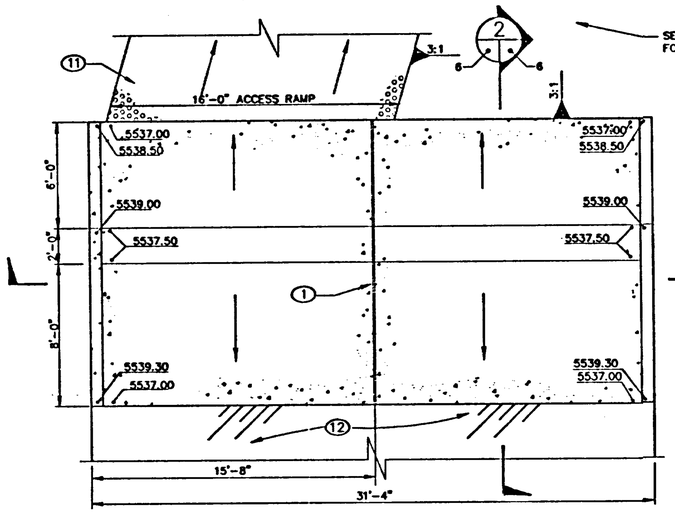
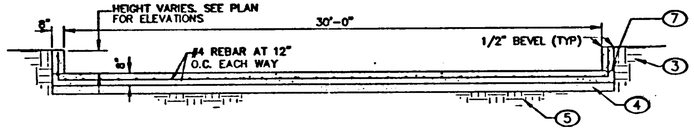


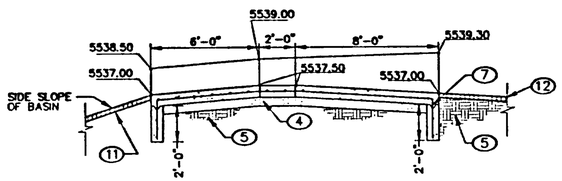
EMERGENCY SPILLWAY PLAN VIEW (A)

SCALE 1/4" = 1'-0"



EMERGENCY SPILLWAY SECTION (1)

SCALE 1/4" = 1'-0"



EMERGENCY SPILLWAY SECTION (2)

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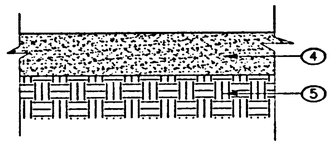
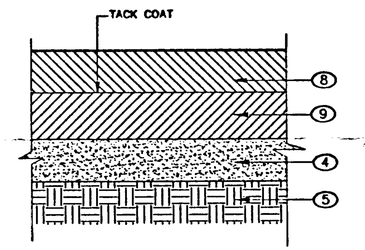


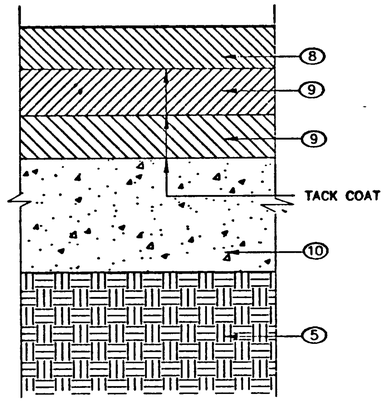
TYPICAL ACCESS RAMP SECTION (D)

SCALE: N.T.S.



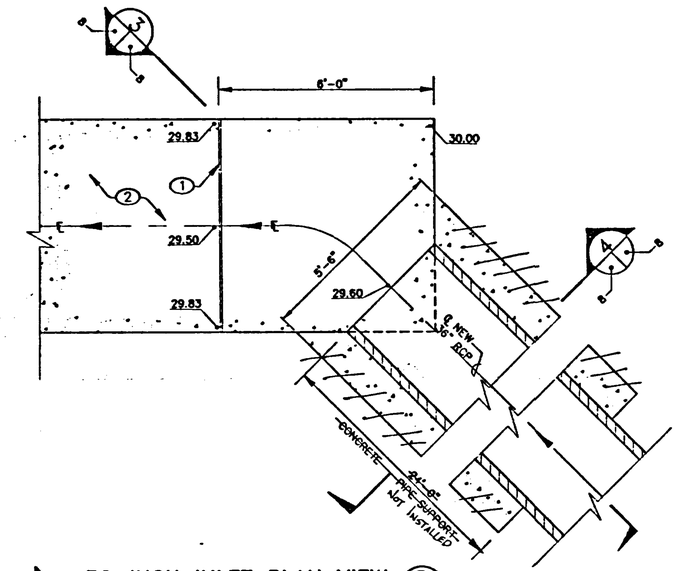
TYPICAL EMERGENCY SPILLWAY ASPHALT APRON SECTION (E)

SCALE: N.T.S.



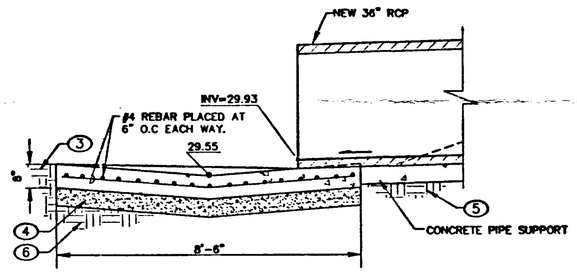
TYPICAL PAVEMENT SECTION FOR JUAN TABO BLVD. & SINGING ARROW RD. (C)

SCALE: N.T.S.



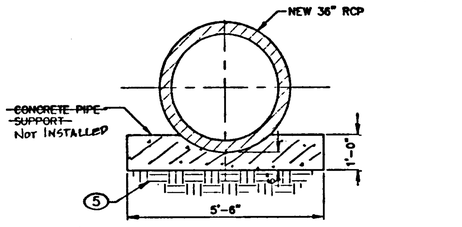
36-INCH INLET PLAN VIEW (B)

SCALE 1/2"=1'-0"



36-INCH INLET SECTION (3)

SCALE 1/2"=1'-0"



36-INCH INLET SECTION (4)

SCALE 1/2"=1'-0"

KEYED NOTES:

1. INSTALL 1/2" EXPANSION JOINT AS PER COA STD DTL 2260.
2. CONSTRUCT CONCRETE SWALE AS PER DETAIL THIS SHEET.
3. COMPACTED BACKFILL PER COA SPECIFICATIONS.
4. 6-INCH COMPACTED AGGREGATE BASE COURSE TO 95% ASTM D-1557.
5. 12-INCH SUBGRADE COMPACTED TO 95% ASTM D-1557.
6. 6-INCH SUBGRADE COMPACTED TO 95% ASTM D-1557.
7. 2"x4" KEYED CONSTRUCTION JOINT.
8. 1-1/2" ARTERIAL SURFACE COURSE ASPHALTIC CONCRETE 1800 M. TYPE "B"
9. 1-1/2" ARTERIAL BASE COURSE ASPHALTIC CONCRETE 1800 M. TYPE "B"
10. 4" BITUMINOUS STABILIZED BASE.
11. CONSTRUCT ACCESS RAMP PER DETAIL D/8.
12. CONSTRUCT EMERGENCY SPILLWAY ASPHALT APRON SECTION PER DETAIL E/8.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
FIELD INSPECTION ACCEPTANCE BY — DATE
FIELD STATION BY — DATE
DRAWINGS COMPILED BY — DATE

BENCH MARKS
C.O.A. BENCHMARK "I-21(8)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 1420892.47

MICRO-FILM INFORMATION
RECORDED BY — DATE

GRID COORDINATES: NORTHING = 1480854.31
EASTING = 1420742.99
GROUND TO GRID FACTOR = 0.999644849

SURVEY INFORMATION

FIELD NOTES	NO.	BY	DATE
	11599	STEPHEN JAMES	1/96
		TOLER	

SURVEYING CONTROL INC.

ENGINEER'S SEAL
PATRICK J. COLLEY — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER
8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY TVD DATE 3/96
DRAWN BY RAN/BAC/JCS DATE 3/96
CHECKED BY P.JC DATE 3/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
DRAINAGE DETAILS

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 8 of 29

Drawing name: C:\BAC\PROJECTS\JUANTABO\JUAND1.3.DWG
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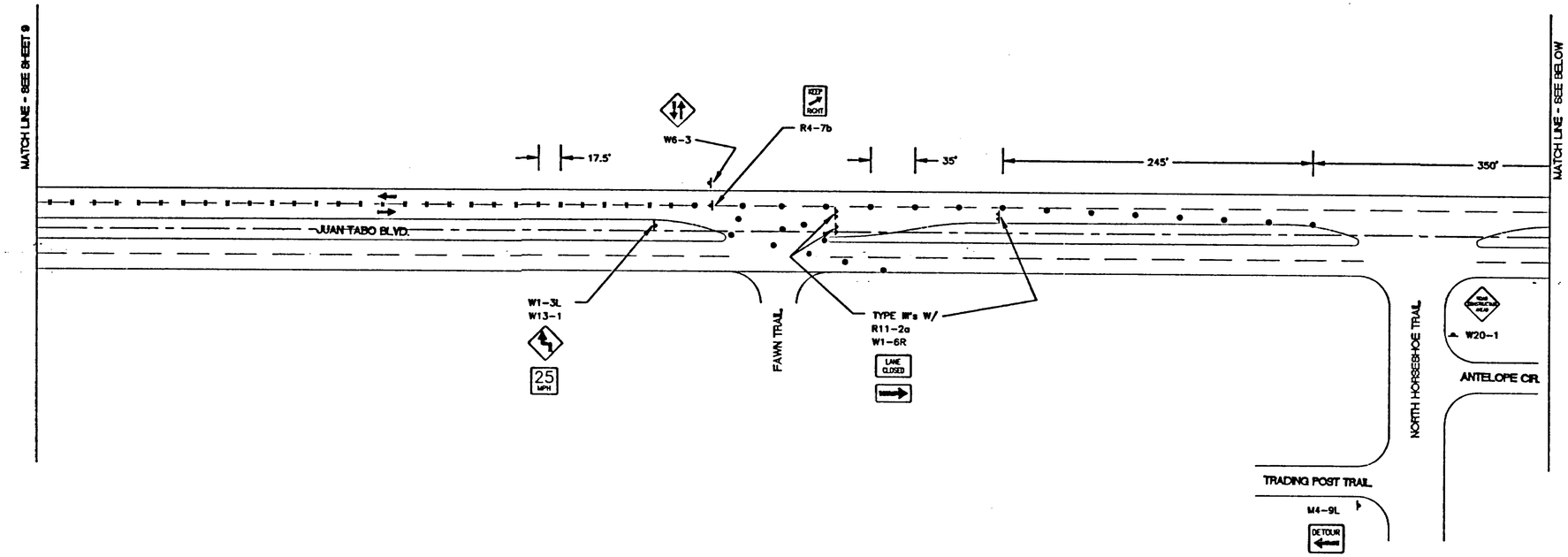
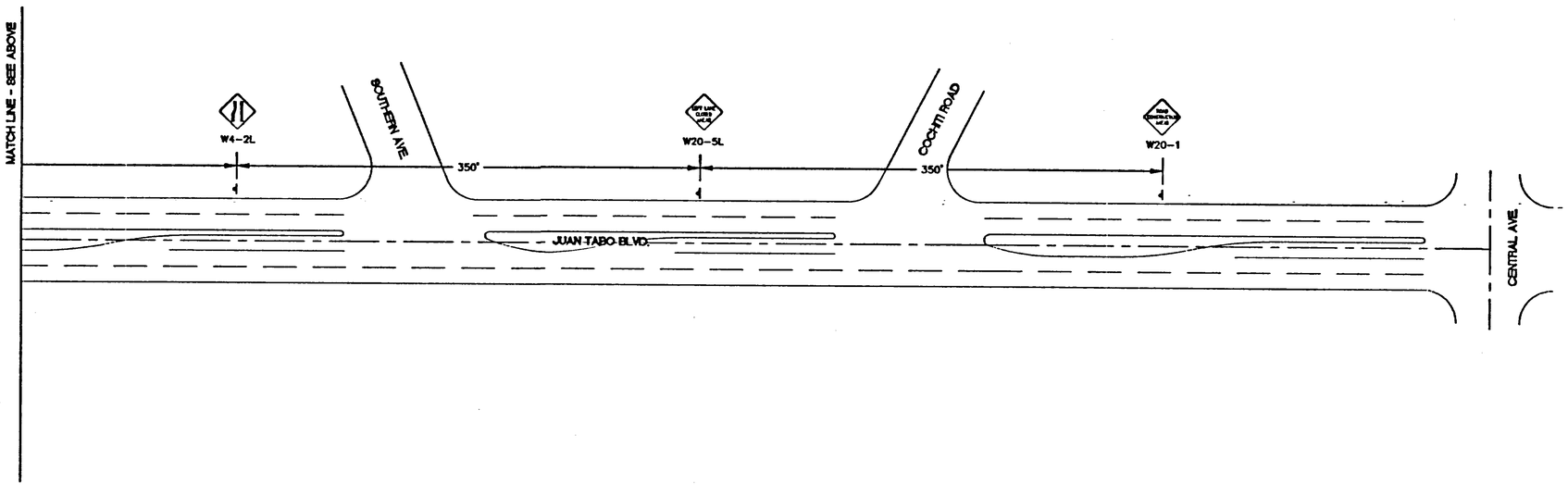




LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	
	FROM SURVEYING	
	CONTROL INC.	

BENCH MARKS

C.O.A. BENCHMARK "I-21(R)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481390.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION

CONTRACTOR ____ DATE
WORK STAKED BY ____ DATE
WORK INSPECTED BY ____ DATE
ACCEPTANCE BY ____ DATE
FIELD VERIFICATION BY ____ DATE
DRAWINGS CORRECTED BY ____ DATE

MICRO-FILM INFORMATION

RECORDED BY ____ DATE
NO. ____

ENGINEER'S SEAL

PATRICK J. COMLEY NEW MEXICO 10101 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	JCS DATE 5/96
		DRAWN BY	ALM/JCS DATE 5/96
		CHECKED BY	PJC DATE 6/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
5460 Ojinaga Boulevard, N.E. Suite 6565 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

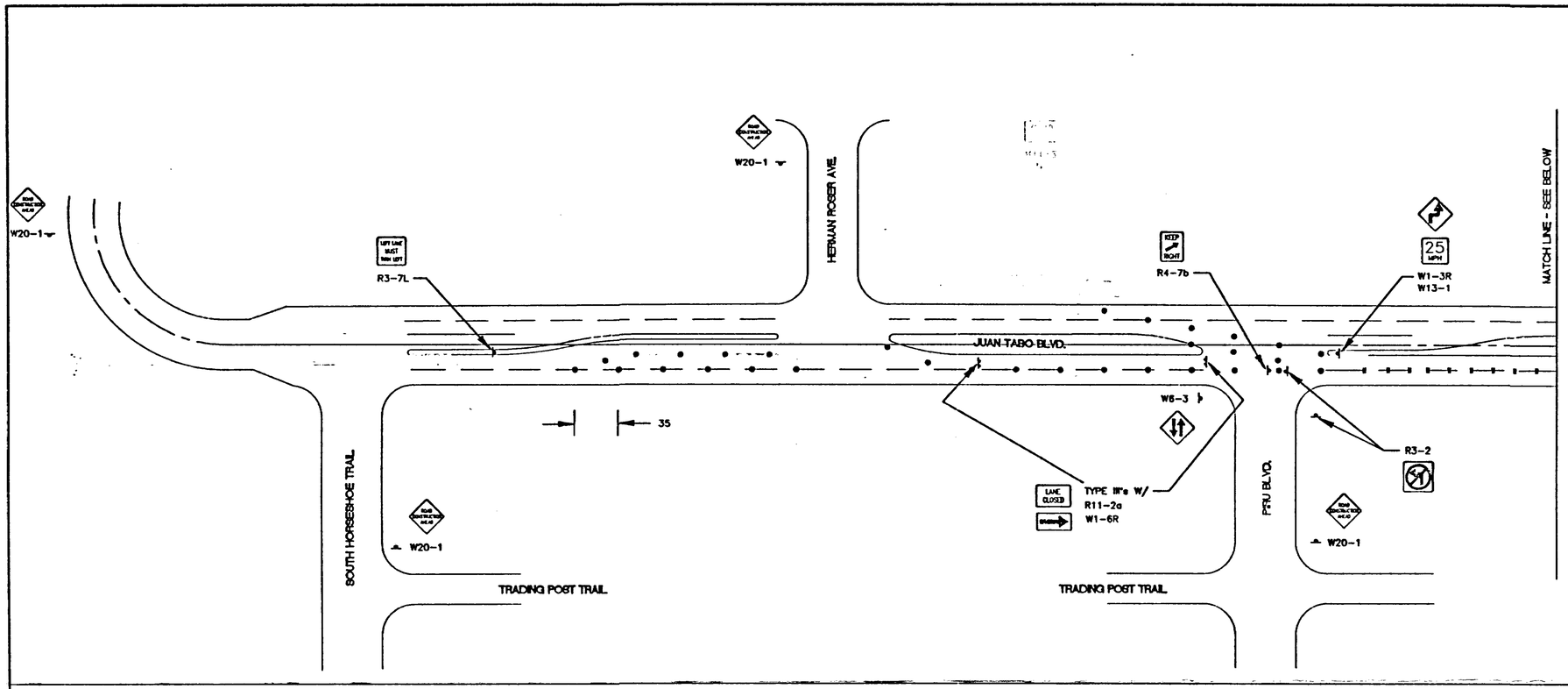
TITLE: JUAN TABO DETENTION BASIN
TRAFFIC CONTROL PLAN: PHASE I

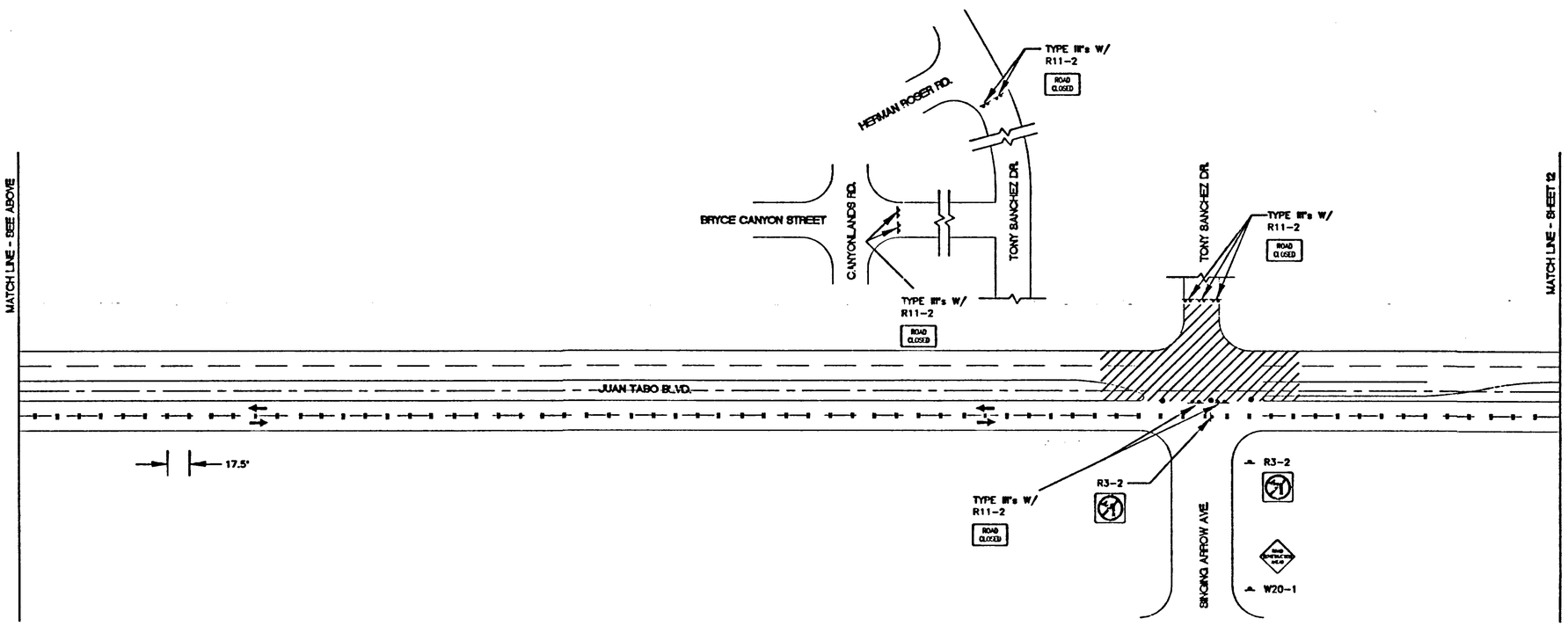
Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: ____ / Day / Yr ____ / Day / Yr

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 10 of 29

Drawing name: C:\BA\PROJECTS\JUANTABO\JUAN2_1.DWG
Date/time plotted: August 9, 1996 at 7:04 AM
This is plot # 2

Plotted on: August 9, 1996 at 7:04 AM





LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE–TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES – MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

FROM SURVEYING CONTROL INC.

BENCH MARKS

C.O.A. BENCHMARK "I-L21(87)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.

ELEV = 5534.627 FT

GROUND COORDINATES: NORTHING = 1481380.42

EASTING = 420892.47

GRID COORDINATES: NORTHING = 1480854.31

EASTING = 420742.99

GROUND TO GRID FACTOR = 0.999644849

AS BUILT INFORMATION

CONTRACTOR

WORK BY

INSPECTION BY

ACCEPTANCE BY

FIELD INSPECTION BY

DRAWINGS BY

MICRO-FILM INFORMATION

RECORDED BY

ENGINEER'S SEAL

PATRICK J. COMLEY 10111 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JGS DATE 5/96

DRAWN BY ALM/JCS DATE 5/96

CHECKED BY PJC DATE 6/96

195106–SE1

Smith Engineering Company

A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE II

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER

Last Design Update

City Project No. 4790.92 Zone Map No. L-21 Sheet 11 Of 29

Drawing name: C:\BAC\PROJECTS\JUANTABO\JUAN_2.DWG
Scale: 1" = 50'
This is plot # 4

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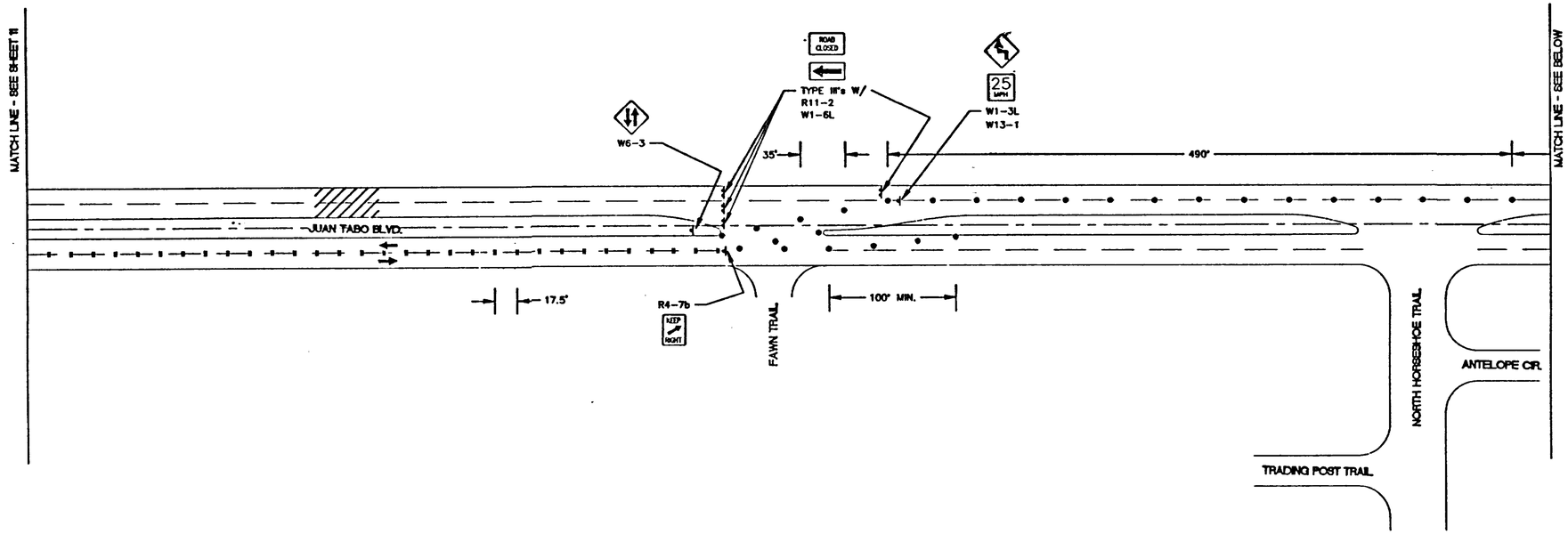

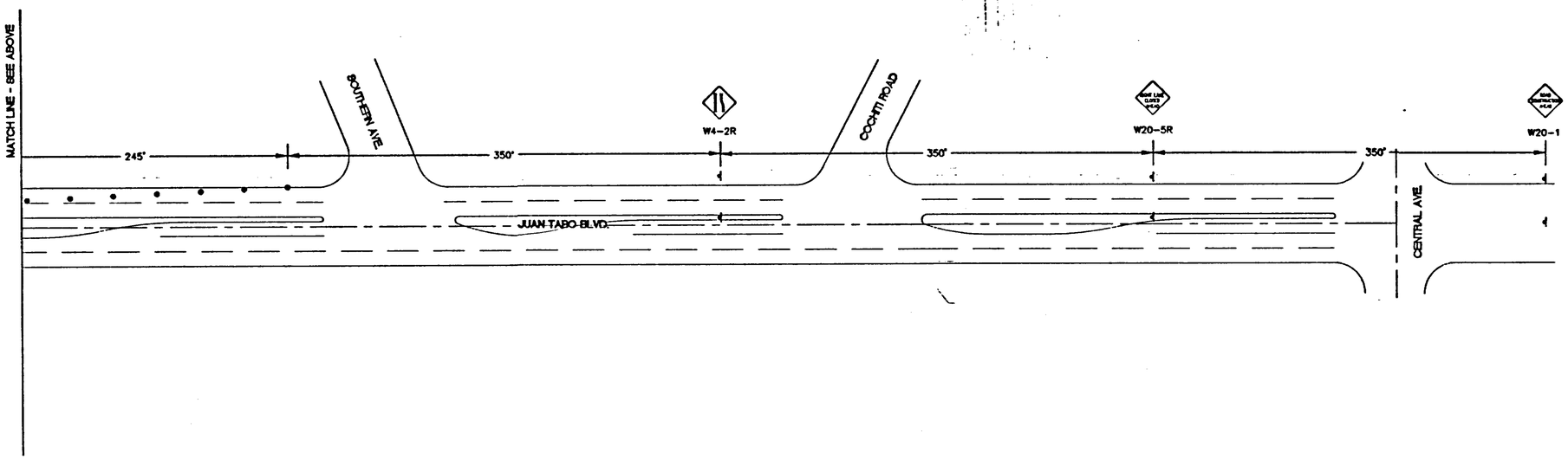

LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE – BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE–TYPE 3

N

50' 25' 0 50' 100'
SCALE: 1" = 50'

195106–SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 600E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN
TRAFFIC CONTROL PLAN: PHASE II

Design Review Committee: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update: No. / Dev / Yr

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 12 Of 29

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES	1/96
	TOLER	

FROM SURVEYING CONTROL, INC.

BENCH MARKS

C.O.A. BENCHMARK "L-21(8)" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT
GROUND COORDINATES: NORTHING = 1481360.42
EASTING = 420892.47
GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99
GROUND TO GRID FACTOR = 0.999844849

AS BUILT INFORMATION

CONTRACTOR _____ DATE
STAKED BY _____ DATE
INSPECTIONS & MONITORING BY _____ DATE
FIELD VERIFICATION BY _____ DATE
PLANS CORRECTED BY _____ DATE

MICRO-FILM INFORMATION

RECORDED BY _____ DATE
VOL _____

ENGINEER'S SEAL

PATRICK J. COULEY NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 8/15/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	JCS	DATE 5/96	
DRAWN BY	ALM/JCS	DATE 5/96	
CHECKED BY	PJC	DATE 6/96	

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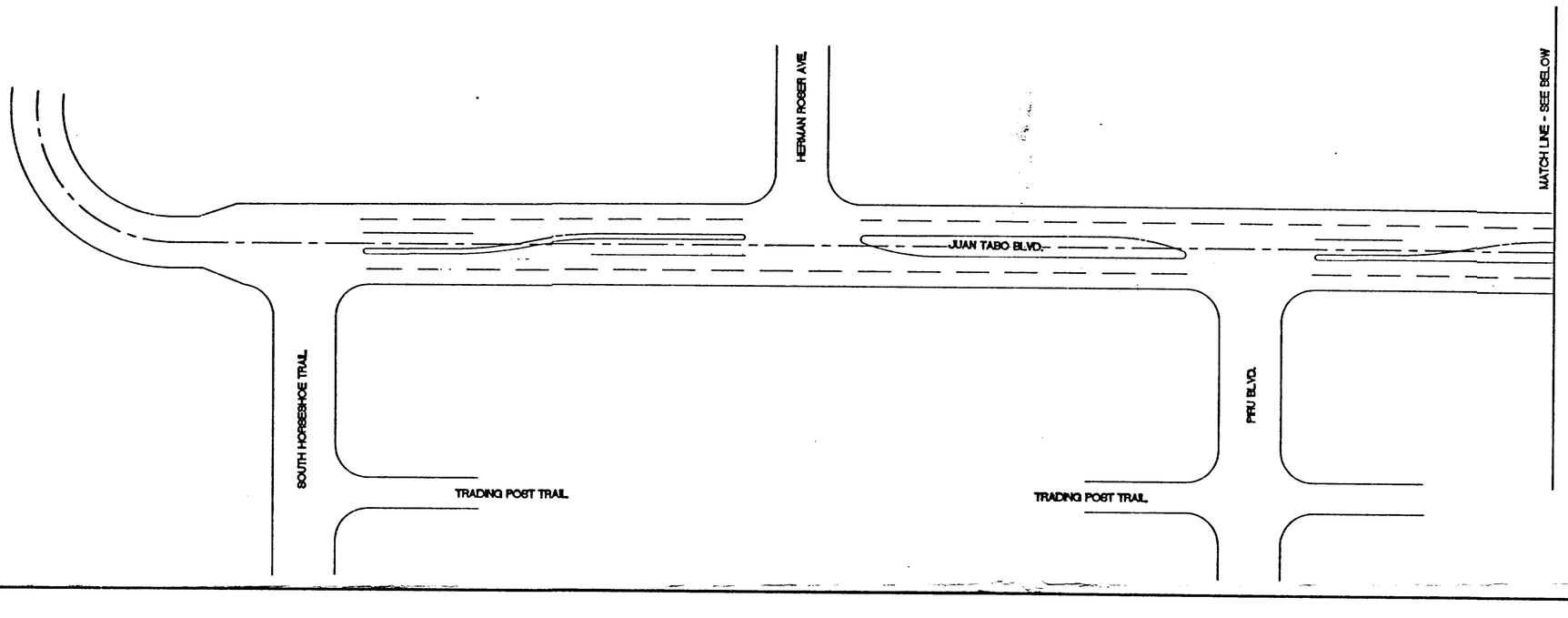

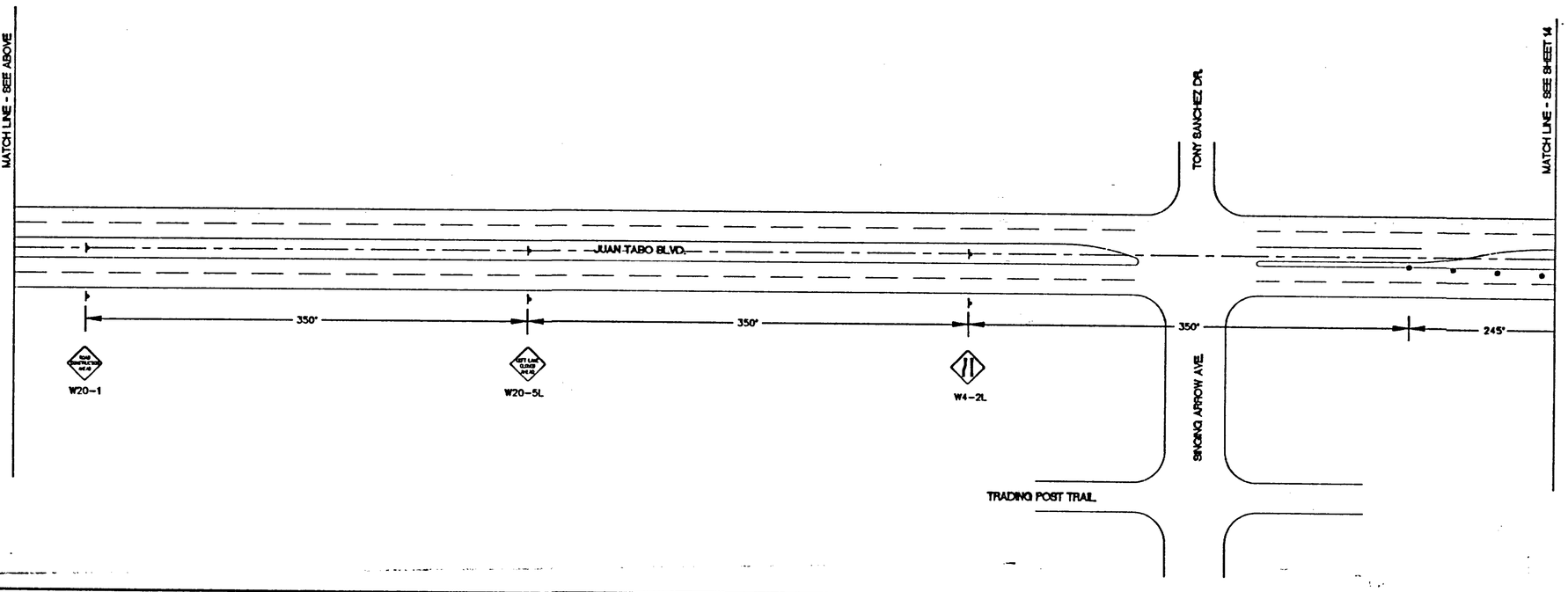

LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE - BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3
- L = DISTANCE BETWEEN ADVANCE WARNING SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
- S = SPACING BETWEEN BARRICADES - MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.

N

50' 25' 0 50' 100'
SCALE: 1" = 50'

BENCH MARKS

C.O.A. BENCHMARK "1-121(B)" ON CENTRAL AVE. MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD INTERSECTION.
ELEV = 5534.627 FT

GROUND COORDINATES: NORTHING = 1481380.42
EASTING = 420892.47

GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.99

GROUND TO GRID FACTOR = 0.999646849

AS BUILT INFORMATION

CONTRACTOR _____ DATE
WORK STAKED BY _____ DATE
ADDITIONS BY _____ DATE
FIELD VERIFICATION BY _____ DATE
DRAWINGS CORRECTED BY _____ DATE

MICRO-FILM INFORMATION

RECORDED BY _____ DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN JAMES TOLER	1/96
	FROM SURVEYING CONTROL INC.	

ENGINEER'S SEAL

PATRICK T. CONLEY NEVAREZ (10141) REGISTERED PROFESSIONAL ENGINEER
8/5/96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		JCS	DATE 5/96
DRAWN BY		ALM/JCS	DATE 5/96
CHECKED BY		PJC	DATE 6/96

195106-SE1

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE III

Design Review Committee Approval: APPROVED SEP 16 1996 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED SEP 16 1996 CITY ENGINEER
Last Design Update

City Project No. 4790.92
Zone Map No. L-21
Sheet 13 of 29

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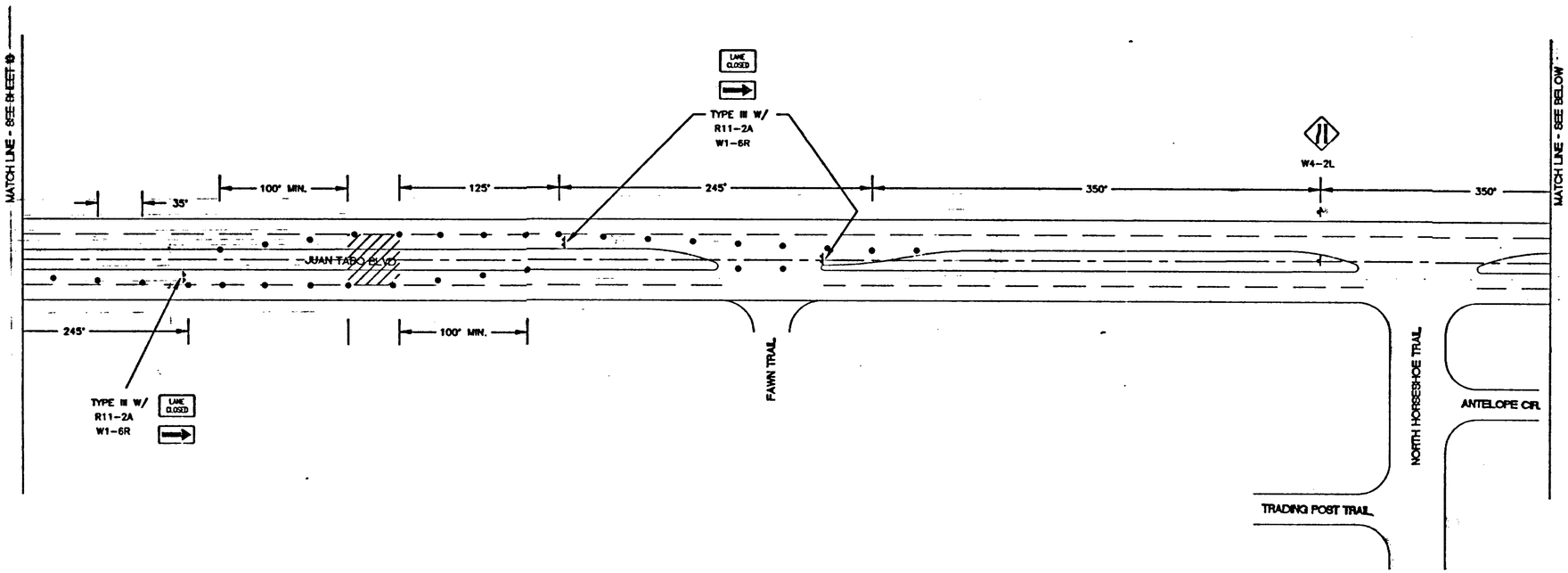

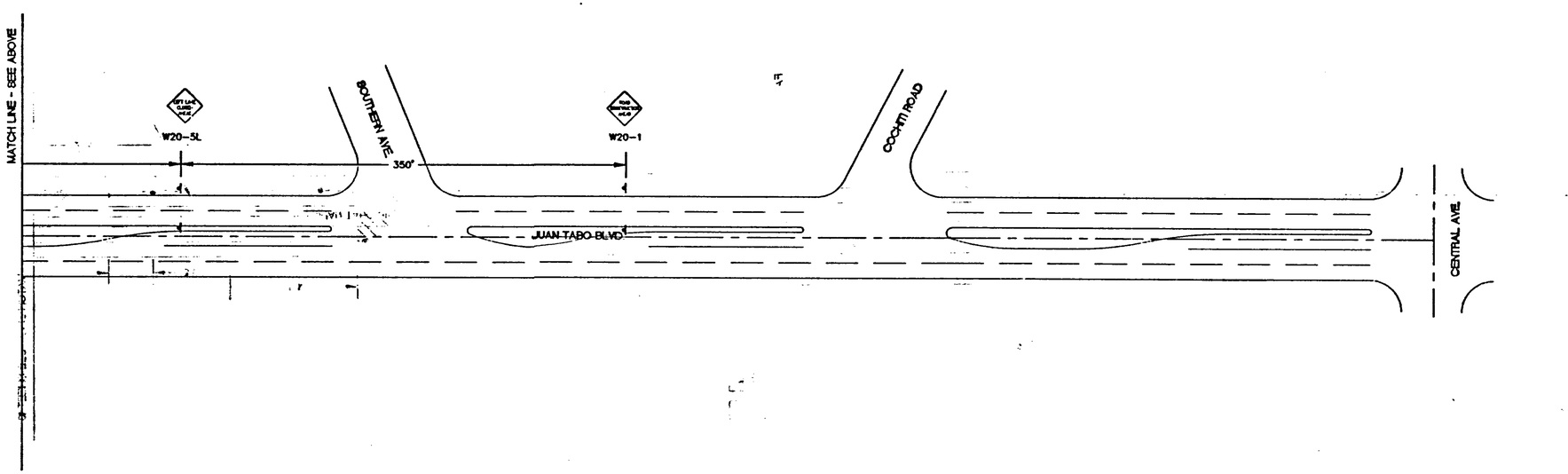

LEGEND

- INDICATES DIRECTION OF TRAFFIC FLOW
- FLAGMAN
- CHANNELIZATION DEVICE - BARREL OR DRUM TYPE
- SIGN
- VERTICAL PANEL
- BARRICADE-TYPE 3

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

195106-SE1

Smith Engineering Company

A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JUAN TABO DETENTION BASIN

TRAFFIC CONTROL PLAN: PHASE III

Design Review Committee — APPROVED — SEP 16 1996 — DESIGN REVIEW COMMITTEE

City Engineer Approval — APPROVED — SEP 16 1996 — CITY ENGINEER

Last Design Update

City Project No. 4790.92 | Zone Map No. L-21 | Sheet 14 of 29

AS BUILT INFORMATION

CONTRACTOR — DATE
STAKED BY — DATE
ACCEPTANCE BY — DATE
FIELD LOCATION BY — DATE
CONTROL BY — DATE

BENCH MARKS

C.O.A. BENCHMARK, 2"+21(61" ON CENTRAL AVE.
MEDIAN WEST OF CENTRAL AVE. AND JUAN TABO BLVD
INTERSECTION.
ELEV = 5534.627 FT

GROUND COORDINATES: NORTHING = 1481350.42
EASTING = 420892.47

GRID COORDINATES: NORTHING = 1480854.31
EASTING = 420742.98

GROUND TO GRID FACTOR = 0.999644849

MICROSTATION INFORMATION

DESIGNED BY JCS — DATE 5/98
DRAWN BY ALN/JCS — DATE 5/98
CHECKED BY PJC — DATE 5/98

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11598	STEPHEN JAMES TOLER	1/96
	FROM SURVEYING CONTROL INC.	

ENGINEER'S SEAL

PATRICK J. CONLEY — NEW MEXICO — 10101 — REGISTERED PROFESSIONAL ENGINEER

7/15/98

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

Drawing name: c:\BAC\PROJECTS\JUANTABO\JUAN2_3.DWG
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This is plot # 2
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