

CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

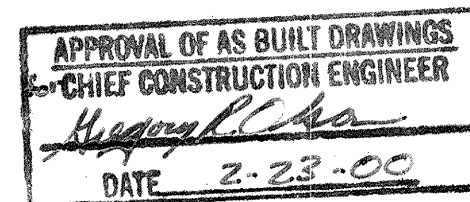
CONSTRUCTION PLANS
FOR

SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENTS PROJECT
U-1 AREA, PHASE IIB

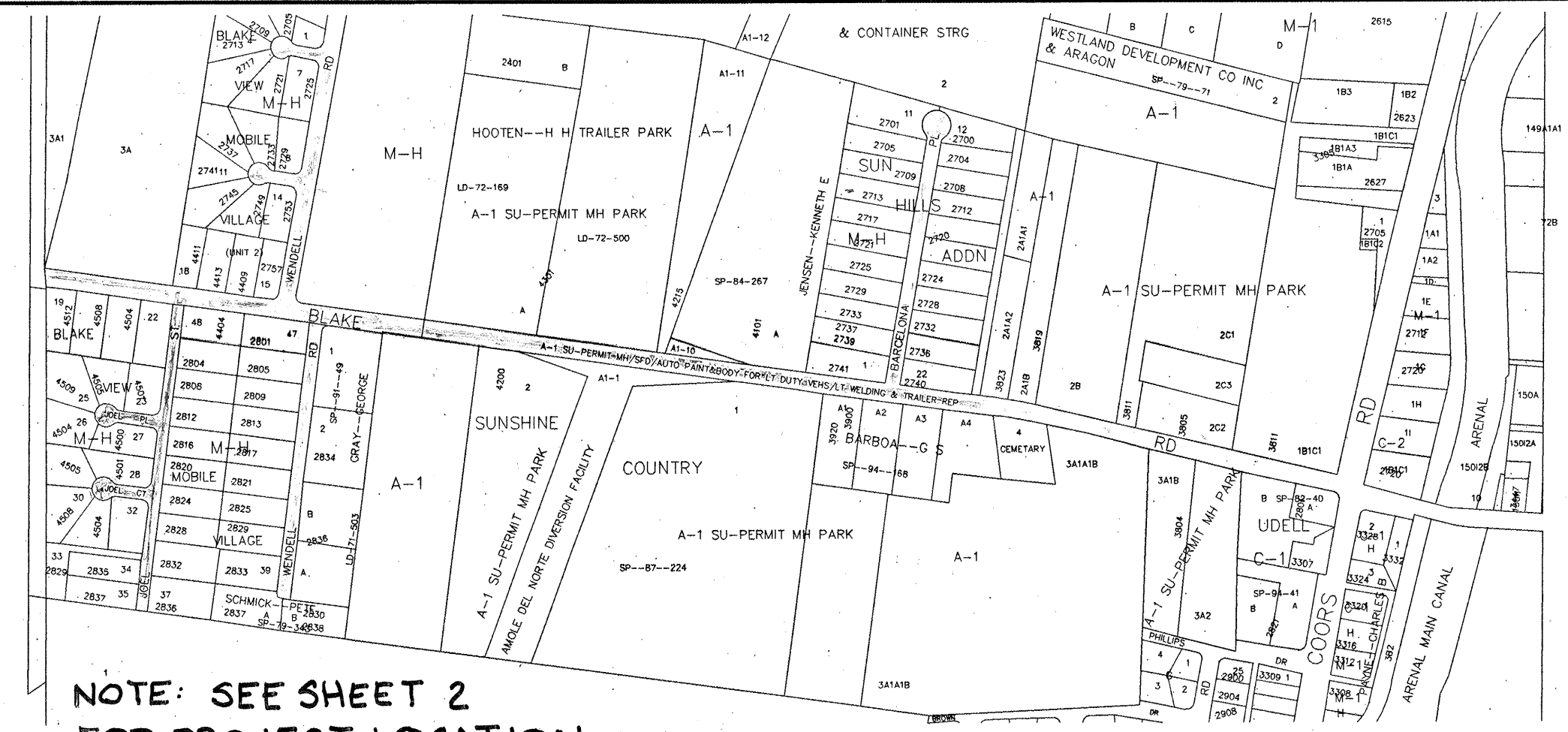
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City of Albuquerque



THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE
WITH INFORMATION FURNISHED BY RUSS PITNEY
EARTHMOVING TO REFLECT THE CONSTRUCTION AS ACTUALLY
ACCOMPLISHED. DATE 7-1-99



NOTE: SEE SHEET 2
FOR PROJECT LOCATION

VICINITY MAP
ZONE ATLAS MAP NO. N-10-Z

AMAFCA NOTES		GENERAL NOTES	
1. SEE SPECIFICATIONS FOR REVEGETATION REQUIREMENTS WITHIN AMAFCA R/W. 2. NOTIFY AMAFCA NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION ON AMAFCA R/W. 3. NO CONSTRUCTION WILL BE ALLOWED AMOLE-HUBBELL CHANNEL FROM MAY 15 THROUGH OCTOBER 15. 4. WORK WITHIN AMAFCA R/W IS SUBJECT TO INSPECTION BY AMAFCA STAFF, WHO HAVE THE RIGHT TO STOP WORK IF, IN THEIR OPINION, CONSTRUCTION DOES NOT CONFORM TO PLANS/SPECIFICATIONS OR THE CHANNEL INTEGRITY IS ENDANGERED. NO ADDITIONAL COSTS OR EXTENSIONS OF TIME WILL BE ALLOWED FOR SUCH STOPPAGE OF WORK. 5. PROVIDE TO AMAFCA A SURETY BOND TO ENSURE REPAIR OF DAMAGES TO EXISTING AMAFCA FACILITIES CAUSED BY CONSTRUCTION OF WORK. IN ADDITION, NAME AMAFCA AS A CO-INSURED AS PART OF INSURANCE COVERAGE TO THE COA. 6. ALL BACKFILL WITHIN AMAFCA R/W SHALL BE COMPACTED TO MINIMUM 95% OF MAXIMUM DENSITY AT MOISTURE CONDITIONS 3% OVER OPTIMUM, IN ACCORDANCE WITH ASTM D-1557. 7. PROVIDE METALIZED DETECTABLE WARNING TAPE IN TRENCH BACKFILL IN ACCORDANCE WITH COA SPECIFICATION SECTION 121.		NOTICE TO CONTRACTORS 1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS". 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALLS SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES. 3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY. 4. ALL EXISTING SIGNS, MARKERS, DEFLECTORS, MAILBOXES, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RESET BY THE CONTRACTOR. 5. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. 6. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET. 7. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOUR CONSTRUCTION. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN. IN ORDER TO COMPLETE THIS CONNECTION, THE FOLLOWING VALVES MUST BE CLOSED BY WATER SYSTEMS PERSONNEL. 9. LIMIT OPEN TRENCH TO 200 FEET MAXIMUM. 10. EXCAVATION, TRENCHING & SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29CFR 1926.650, SUBPART P. 11. THE CITY OF ALBUQUERQUE IS DEVELOPING NEW REQUIREMENTS FOR FILLING/FLUSHING NEW LINES. CONTRACTOR SHALL CONFORM TO THE LATEST REQUIREMENTS.	
WILSON & COMPANY 4775 INDIAN SCHOOL ROAD N.E. SUITE 200 ALBUQUERQUE, NEW MEXICO 87110 (505) 254-4000			

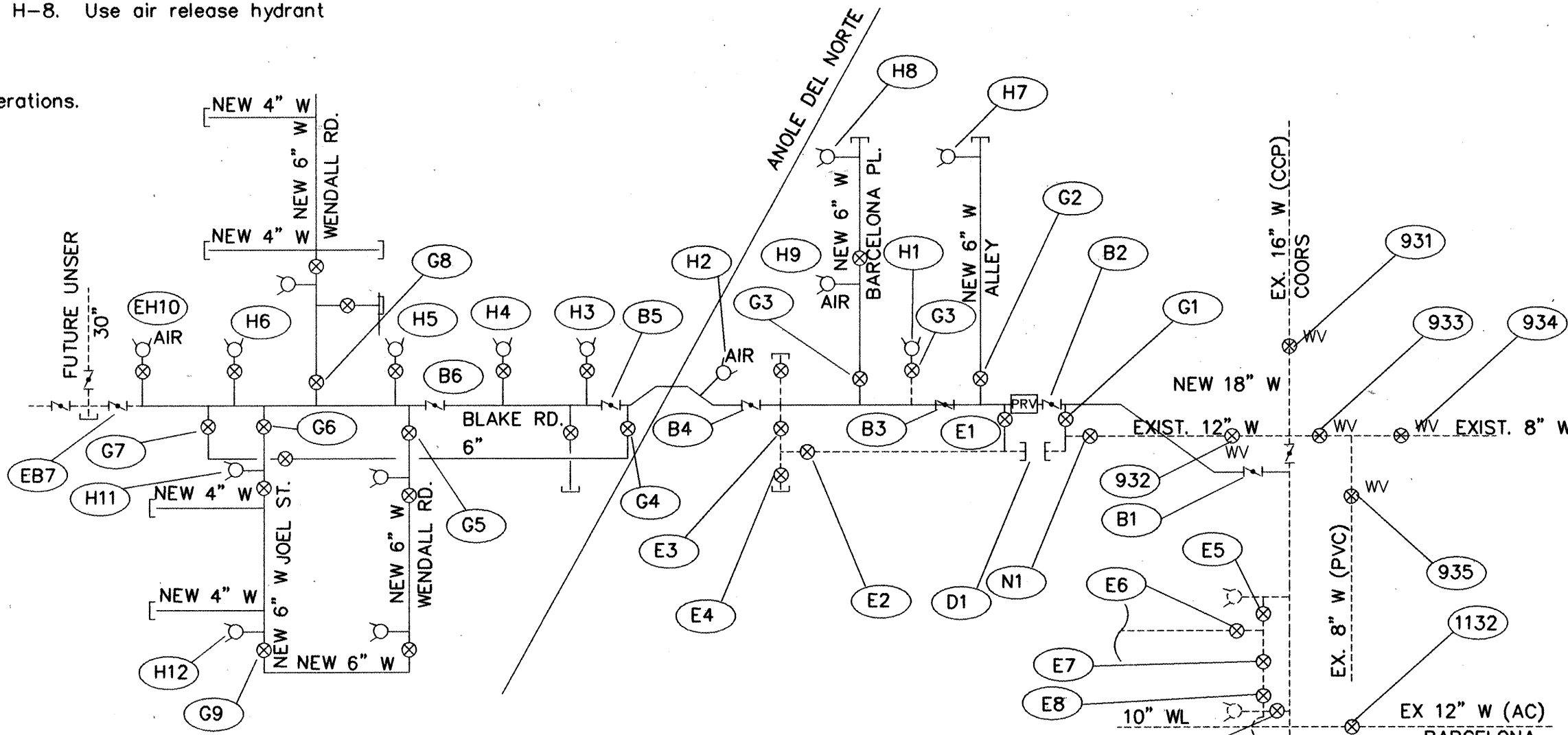
GENERAL FILLING & FLUSHING NOTES

- Disinfection and filling of water lines shall conform to the City of Albuquerque Standard Specifications 801.17 and AWWA C651 (latest edition) except as modified herein.
- All necessary measures shall be taken to prevent contaminated materials from entering the water line during storage, construction, or repair including capping the water line at night and during all breaks in pipe laying.
- Remove any materials, dirt, or debris, that may have entered the water line prior to disinfection with preliminary flushing on lines less than 24" in diameter and broom sweeping on lines 24" and larger. If hydrant is used, replace PRV with spool piece to allow water to flow backwards through vault. If existing 12" is used, do not make "D1" disconnect until all testing complete. Sequence below assumes filling from existing 12" waterline.
- Add a temporary flushing/drainage port to all dead end lines discharge points and filling points which are not fire hydrants. Port shall be 2" minimum unless shown otherwise. Port shall allow pipe to fully drain.
- Fill the water line through an approved back flow prevention device. Contractor shall use necessary methods to allow all air in the water line to release without contaminating any existing water lines or field tapping concrete cylinder pipe.
- Pressure test in accordance with City of Albuquerque Standard Specification 801.16.
- Disinfect the water line per City of Albuquerque Standard Specifications 801.17 and AWWA C651 (latest edition). Sodium or calcium hypochlorite are the only permissible forms of chlorine to be used. Granules or tablets shall not be placed in the water line, however they may be used. To premix a highly chlorinated solution, Contractor shall ensure that granules or tablets not dissolved are not introduced into the water line from the highly chlorinated water by screening the discharge from the pre-mixing vessel or by other proven means. The slug method shall be used as specified in AWWA C651, as modified herein and described in Filling and Flushing Sequence notes.
- Flush the heavily chlorinated water from the water line after the 3-hour retention period. Introduce flush water through an approved back flow prevention device. Flush water shall be discharged to approved locations at a discharge rate that shall not damage or erode existing surfaces. If flushing to a sanitary sewer, maintain minimum 18" free clearance between flushing line and manhole rim.
- Notify appropriate agencies prior to discharge when discharging flush water.
 - Sanitary sewer, Wastewater Utility Division: 873-7015.
 - AMAFCA Ditches or Channels, AMAFCA: 884-2215.
- Potability tests will be taken by the City when the flush water chlorine residual is less than 2.0 mg/l. Upon passing, the Contractor shall remove the meter and back flow prevention devices and place the line in service. If line does not pass, Contractor shall repeat disinfection and flushing until line passes.
- Contractor shall be granted free volumes of water for testing and flushing. Additional volumes required for retesting shall be metered and paid for by the Contractor at the current water rates.
- Provide City with a record of the water volume used to fill and flush the water line based upon water meter readings.
- Contractor may submit an alternative filling, disinfecting, and flushing plan at least five (5) working days prior to filling, to be approved by the City and the Engineer.
- When placing new water lines into service, open all new valves except those on dead end lines and by-pass valves at valve vaults. All dead end lines shall be drained by the Contractor.
- Throttling shall be performed using valves not fire hydrants.

FILLING AND FLUSHING SEQUENCE

- A. GENERAL
- Fill, Pressure Test, Disinfect, and Flush by segments sequentially as shown on Drawings and listed below.
 - Initial water may be taken from hydrant at Coors and Blake or from existing 12" water line on Blake via valves E1 or G1; as testing for each segment is complete and accepted, water may be taken from adjacent accepted segment.
 - Provide flushing/drainage ports on each side of 18" butterfly valves for testing operations.
 - For small outlets located within each segment, provide flushing/filling ports. As slug passes each small outlet, throttle flushing/filling port to disinfect outlet.
- B. SEQUENCE DETAILS
- Segment B-2 to B-1:
 - Fill/flush from existing 12" connection with valves B2 and B1 closed, throttling through fill/flush top at B1; alternatively, fill/flush from fire hydrant at Coors with valves G1, B2, and B1 closed, throttling through fill/flush taps at B2 and G1.
 - Segment B-2 to B-3:
 - Test with water from B-1/B-2 segment; Valve B-3 closed and 12" gate on Alley open
 - Discharge throttled water through hydrant H-7.
 - Segment B-3 to B-4:
 - Test 18" first with water from B-2/B-3 segment, with 8" gate on Barcelona closed, discharging throttled water through fill/flush top at B-4.
 - After completion of 18" testing, repeat process to test 8" on Barcelona with 8" gate on Barcelona open, flush/fill top at B-4 closed, and discharging throttled water through hydrant H-8. Use air release hydrant H-9 to remove all air from line during filling operations.
 - Segment B-4 to B-5:
 - Test with water from B-3/B-4 segment with 6" Valve G-4 closed.
 - Use air release hydrant H-2 to remove all air from line during filling operations.

- Segment B-5 to B-6:
 - Test with water from B-4/B-5 segment with 6" valve G-4 closed, discharging throttled water through flush/fill top at B-6.
 - Test 6" segment with water from B-4/B-5 segment with valve B-5 closed, discharging throttled water through 6" valve G-7.
- Segment B-6 to Existing B-7:
 - Test 18" first with water from B-5/B-6 segment with side valves G-5, G-6, and G-8 closed, discharging throttled water through existing hydrant H-10.
 - Wendell South: After completion of 18" testing, repeat process, opening 6" valve G-5 and discharging throttled water through hydrant H-11.
 - Joel: After above testing complete, repeat process, closing valve G-9, opening valve G-6 and discharging throttled water through hydrant H-12.
 - Wendell North: After above testing complete, repeat process, closing valves G-6, opening valve G-8 and discharging throttled water through flush/fill valves placed on north end of 6" on Wendell and 4" lines on cul-de-sacs.

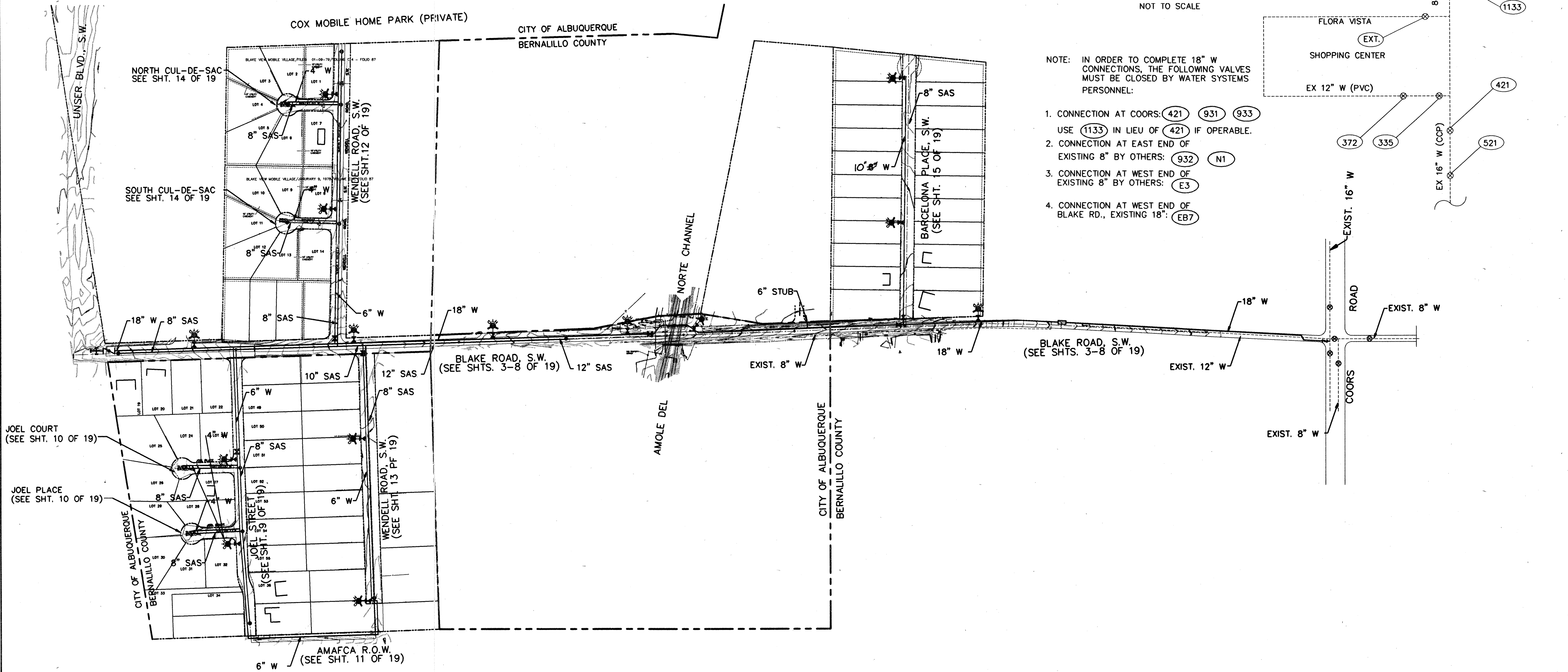


WATER SHUT-OFF PLAN

NOT TO SCALE

NOTE: IN ORDER TO COMPLETE 18" W CONNECTIONS, THE FOLLOWING VALVES MUST BE CLOSED BY WATER SYSTEMS PERSONNEL:

- CONNECTION AT COORS: (421) (931) (933) USE (1133) IN LIEU OF (421) IF OPERABLE.
- CONNECTION AT EAST END OF EXISTING 8" BY OTHERS: (932) (N1)
- CONNECTION AT WEST END OF EXISTING 8" BY OTHERS: (E3)
- CONNECTION AT WEST END OF BLAKE RD., EXISTING 18": (EB7)



PLAN

SCALE: 1"=200'



LEGEND

- NEW EXIST.
- C & G ---
- SAS --- SANITARY SEWER
- W --- WATER LINE
- G --- GAS LINE
- SD --- STORM DRAIN
- UT --- UNDERGROUND TELEPHONE LINE
- UE --- UNDERGROUND ELECTRICAL LINE
- CATV --- UNDERGROUND CABLE TV LINE
- TC --- TRAFFIC SIGNAL CONDUIT
- TR --- TELEPHONE BOX
- SD --- STORM DRAIN MANHOLE
- MH --- SANITARY SEWER MANHOLE
- WV --- WATER VALVE
- WM --- WATER METER
- GV --- GAS VALVE
- GM --- GAS METER
- PP --- FIRE HYDRANT
- SP --- POWER POLE
- LP --- SIGNAL PEDESTAL
- PB --- PULL BOX
- LP --- LIGHT POLE
- SI --- STORM INLET
- TS --- TREE/SHRUB
- SE --- SPOT ELEVATION

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR: Wilson & Company, Engineers & Architects		BENCHMARK USED IS A STANDARD ACS BRASS CAP		DATE: 2/94		BY: WILSON & COMPANY, ENGINEERS & ARCHITECTS	
WORK NO.: CINT SHEPHERD 7/1/97		STAMPED "NM 45-7A" LOCATED AT THE INTERSECTION OF BLAKE RD AND COORS RD., S.W. ELEV = 4953.487		SUT: JES, NKG		REVISIONS	
DATE: 7/1/97		DATE: 7/1/97		DATE: 7/1/97		NO. DATE	
MICRO-FILM INFORMATION		RECORDED BY: WILSON & COMPANY, ENGINEERS & ARCHITECTS		DATE: 7/1/97		DESIGNED BY: RJP	
NO.		NO.		NO.		DRAWN BY: PRO	
DATE		DATE		DATE		CHECKED BY: WILSON & COMPANY, ENGINEERS & ARCHITECTS	
DATE		DATE		DATE		DATE	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

OVERALL WATER/SEWER PLAN
SOUTH VALLEY WATER & SEWER SYSTEM
IMPROVEMENTS PROJECTS U-1 AREA, PHASE IIB

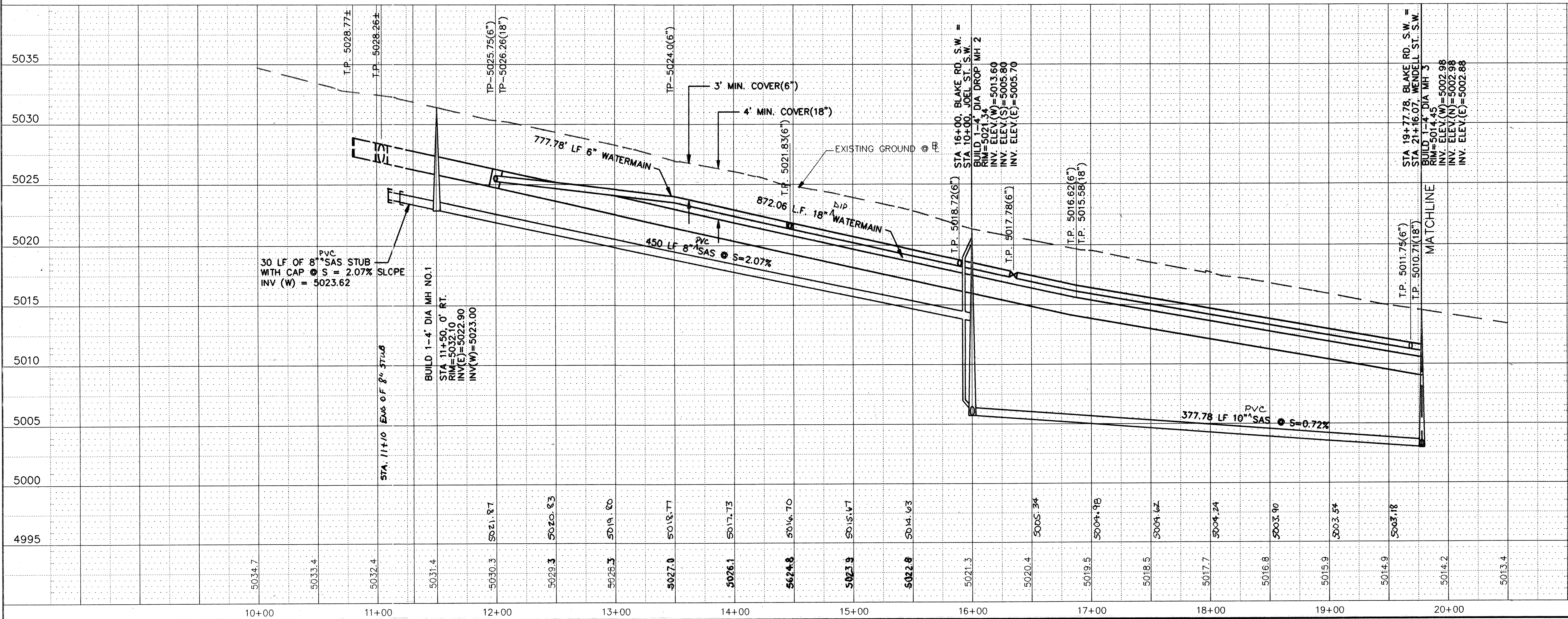
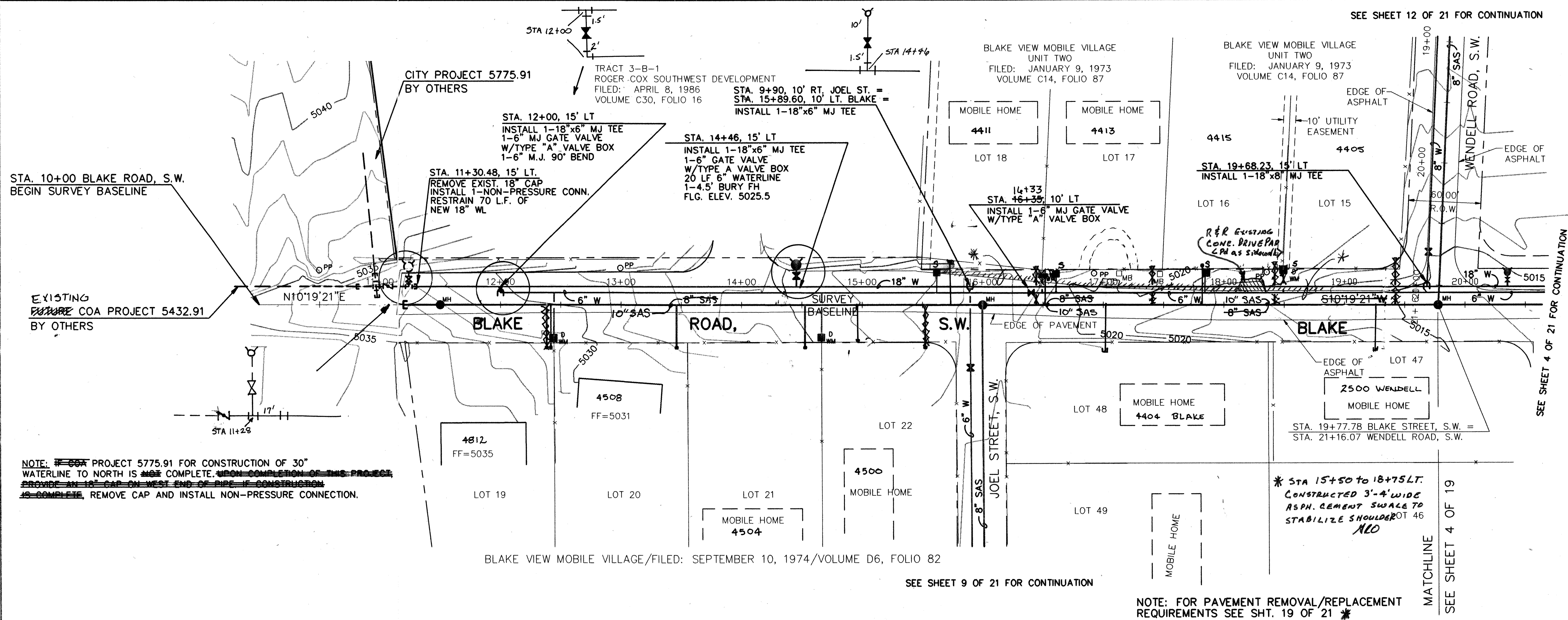
Design Review Committee: **APPROVED**

City Engineer Approval: **APPROVED**

City Project No.: **4515.97**

Zone Map No.: **N-10-Z**

Sheet **2** Of **21**



SEWER SERVICES				
LOT	STATION	SIZE	LENGTH	INV. @ PL
47	19+27.12	4"	34.5'	5012.0
16	17+81.17	4"	33'	5014.0
17	16+51.17	4"	25'	5017.5
18	15+73.17	4"	35'	5017.5
19	12+41.17	4"	33'	5026.0
20	13+46.17	4"	33'	5023.0
21	14+52.17	4"	32.5'	5020.2
22	14+95.17	4"	34.5'	5018.0
48	17+01.17	4"	38'	4.5' DEEP

WATER SERVICES				
LOT	STATION	SIZE	LENGTH	TYPE
45	18+48.17	3/4"	20' x 3/4"	DBL
16	17+83.17	3/4"	20' x 3/4"	Single
17	16+62.17	3/4"	20' x 3/4"	Single
18	15+62.17	3/4"		Single
19	12+45.17	3/4"	40' x 3/4"	DBL
20		3/4"		
21	14+66.17	3/4"	40' x 3/4"	DBL
22		3/4"		

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BLAKE ROAD, S.W./ STA. 10+00 TO 20+00
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT (U-1 AREA, PHASE IIB)

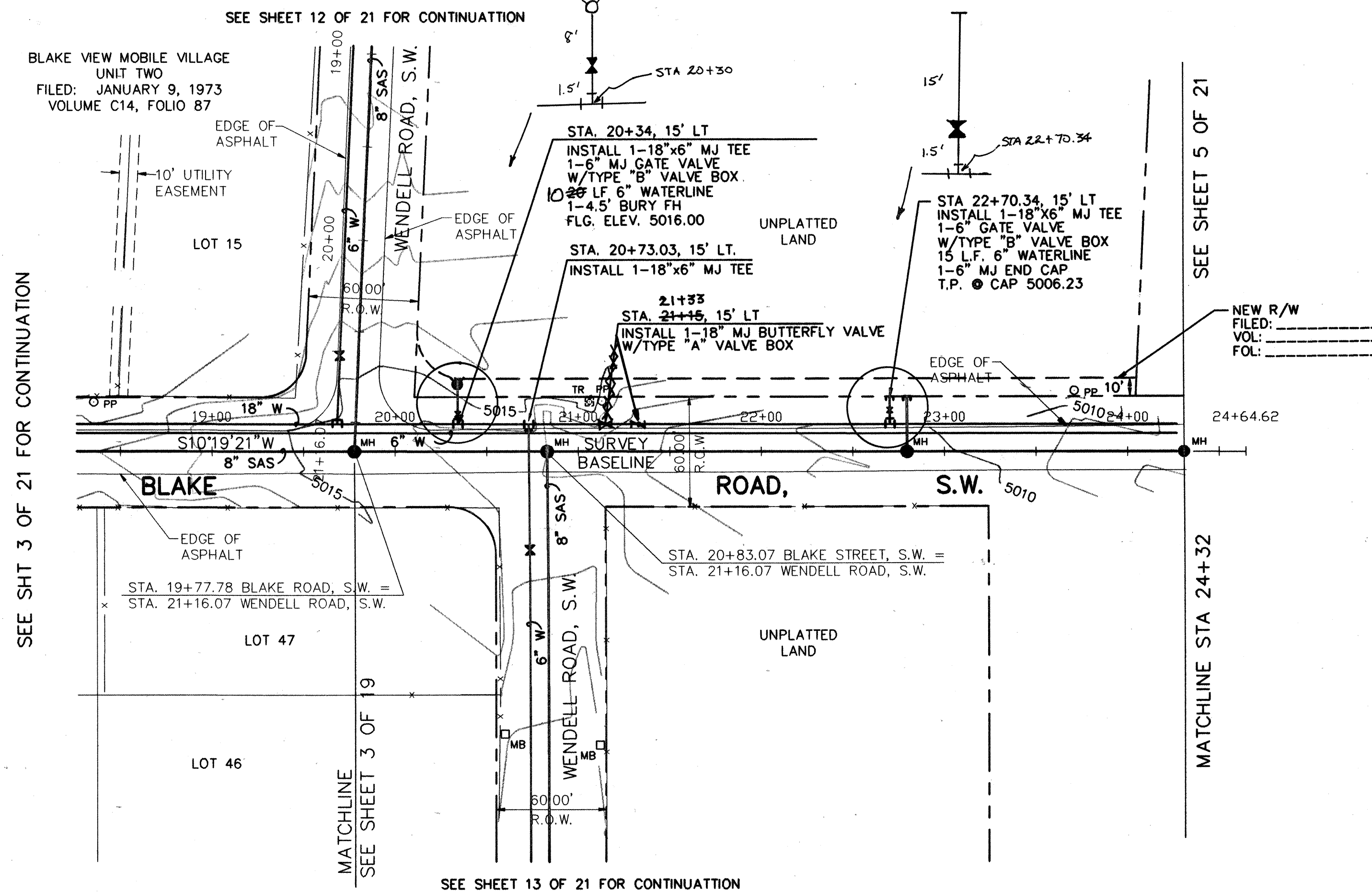
Design Review Committee City Engineer Approval

APPROVE

DESIGN REVIEW COMMITTEE CITY ENGINEER

City Project No. 4515.97 Zone Map No. N-10

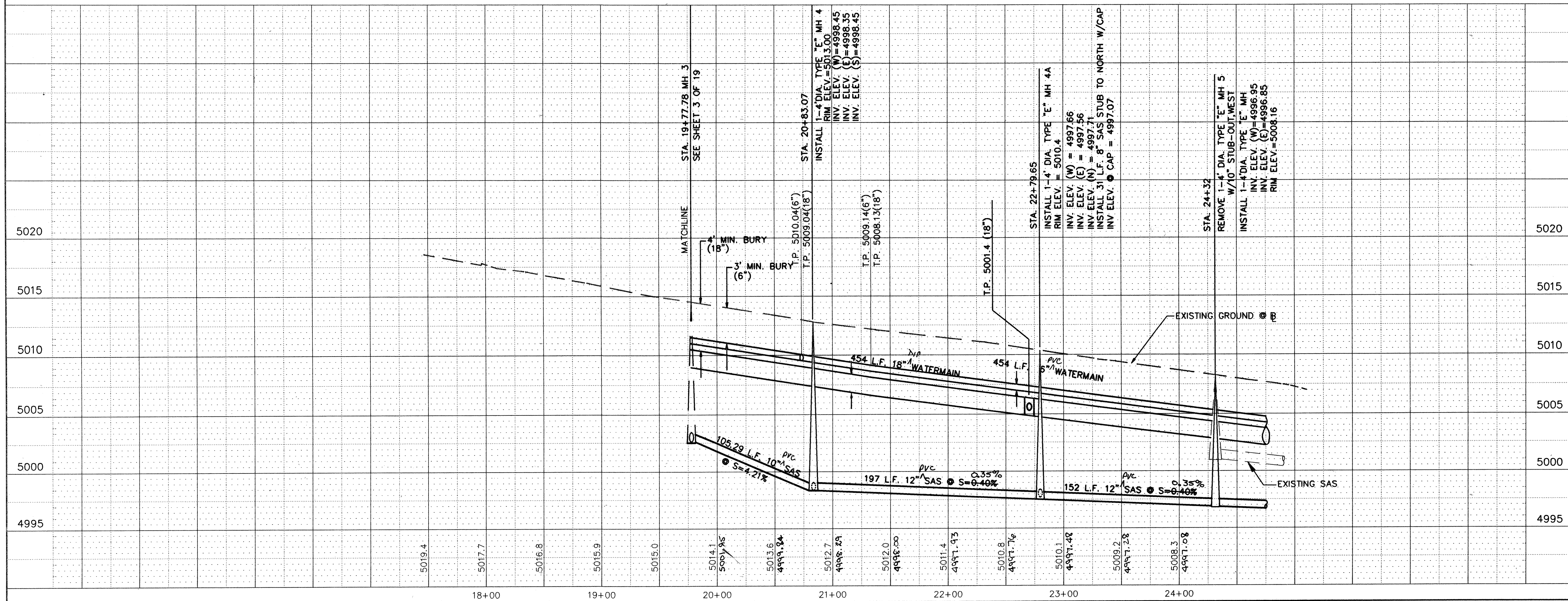
Sheet 3 of 21



BLAKE ROAD, S.W.

NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT REQUIREMENTS SEE SHT. 19 OF 21

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN CITY OF ALBUQUERQUE



PLAN

SCALE: 1"=50'

PROFILE

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

LEGEND

- NEW EXIST.
- SAS SANITARY SEWER
- W WATER LINE
- G GAS LINE
- UT UNDERGROUND TELEPHONE LINE
- UE UNDERGROUND ELECTRICAL LINE
- CATV UNDERGROUND CABLE TV LINE
- TR TELEPHONE BOX
- MH SANITARY SEWER MANHOLE
- WV WATER VALVE
- WM WATER METER
- GM GAS METER
- FD FIRE HYDRANT
- PP POWER POLE

SEWER SERVICES

LOT	STATION	SIZE	LENGTH	INV. @ PL

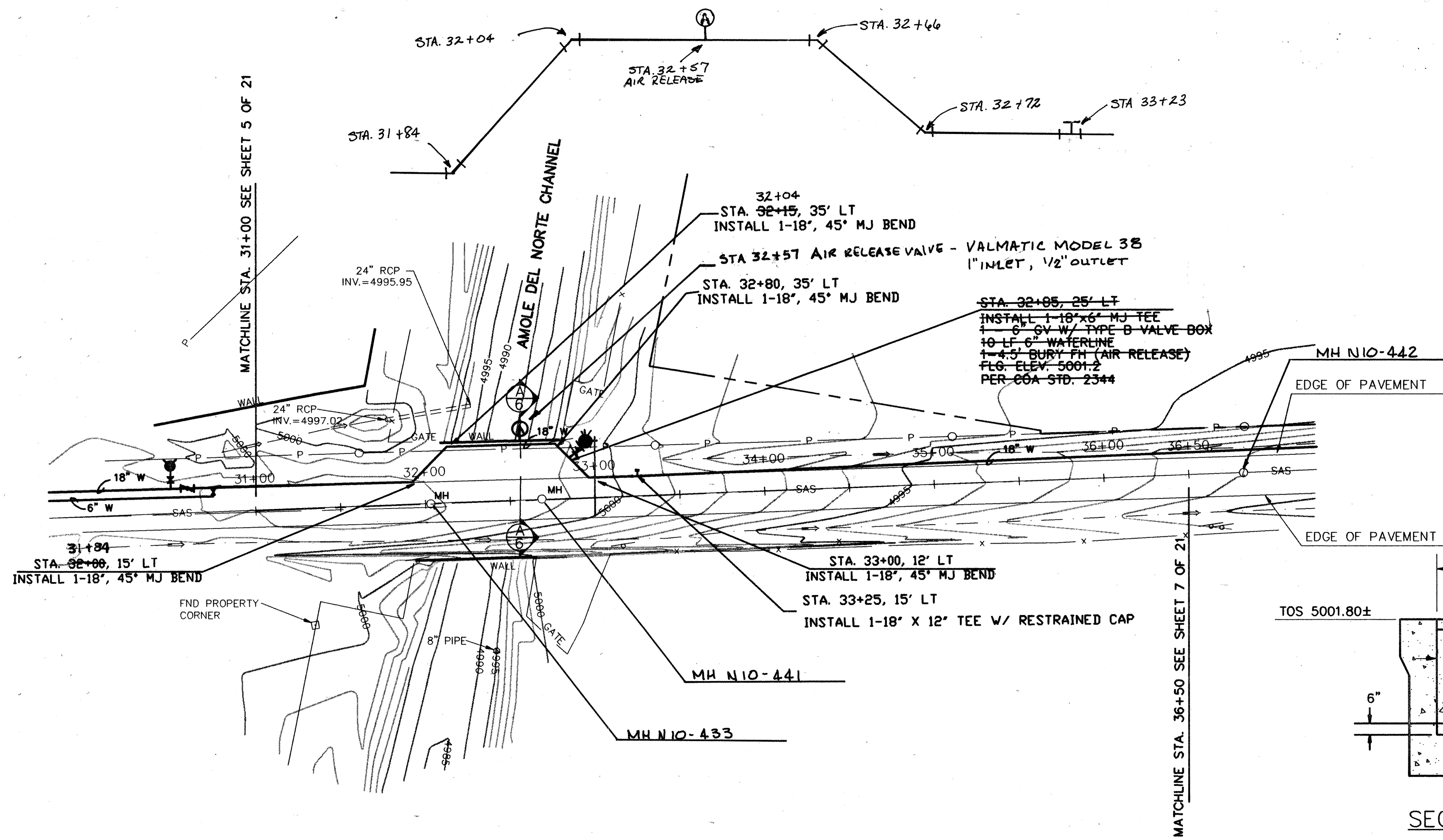
WATER SERVICES

LOT	STATION	SIZE	LENGTH	TYPE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BLAKE ROAD, S.W./STA 20+00 TO 24+32
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVE	APPROVE		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
4515.97	N-10	4	21



NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT REQUIREMENTS SEE SHT. 19 OF 21

BLAKE ROAD, S.W.

MATCHLINE STA. 36+50 SEE SHEET 7 OF 21

SECTION A-A

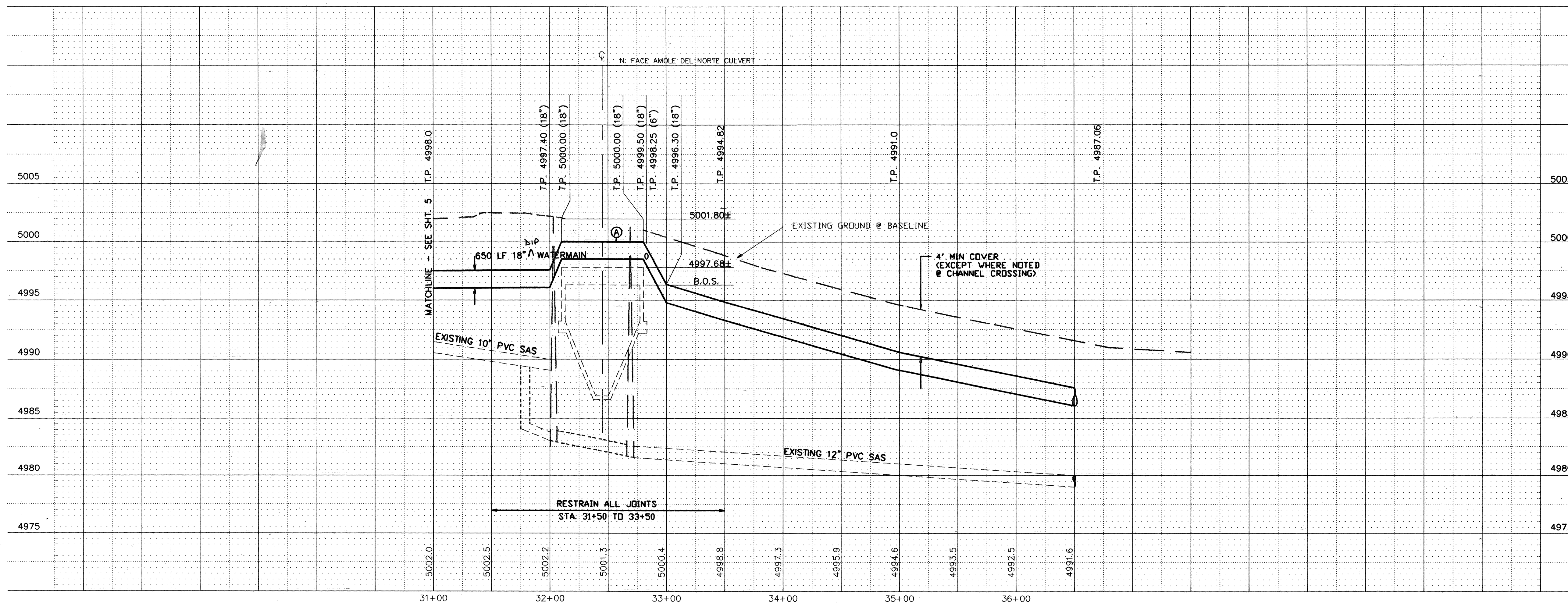
NO SCALE
SEE THIS SHT. FOR LOCATION

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN CITY OF ALBUQUERQUE

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

LEGEND

- | | | |
|---------------|---------------|-----------------------------|
| NEW | EXIST. | |
| — SAS — | — SAS — | C & G |
| — W — | — W — | SANITARY SEWER |
| — G — | — G — | WATER LINE |
| — SD — | — SD — | GAS LINE |
| — UT — | — UT — | STORM DRAIN |
| — UE — | — UE — | UNDERGROUND TELEPHONE LINE |
| — CATV — | — CATV — | UNDERGROUND ELECTRICAL LINE |
| — TC — | — TC — | UNDERGROUND CABLE TV LINE |
| — TR — | — TR — | TRAFFIC SIGNAL CONDUIT |
| — SD — | — SD — | TELEPHONE BOX |
| — MH — | — MH — | STORM DRAIN MANHOLE |
| — GATE — | — GATE — | SANITARY SEWER MANHOLE |
| — BUTTERFLY — | — BUTTERFLY — | WATER VALVE |
| — WM — | — WM — | WATER METER |
| — GM — | — GM — | GAS VALVE |
| — FM — | — FM — | GAS METER |
| — PP — | — PP — | FIRE HYDRANT |
| — SP — | — SP — | POWER POLE |
| — PB — | — PB — | SIGNAL PEDESTAL |
| — LP — | — LP — | PULL BOX |
| — ST — | — ST — | LIGHT POLE |
| — SI — | — SI — | STORM INLET |
| — TS — | — TS — | TREE/SHRUB |
| — SE — | — SE — | SPOT ELEVATION |



AS-BUILT INFORMATION	
CONTRACTOR	ROSS PERRY ENGINEERING
DATE	7/1/99
STATION	31+00 TO 36+50
PROJECT	BLAKE ROAD, S.W. STA 31+50 TO 36+50
DESIGNED BY	R. J. LUCERO
CHECKED BY	R. J. LUCERO
APPROVED BY	R. J. LUCERO
DATE	7/1/99
PROJECT	BLAKE ROAD, S.W. STA 31+50 TO 36+50
DESIGNED BY	R. J. LUCERO
CHECKED BY	R. J. LUCERO
APPROVED BY	R. J. LUCERO
DATE	7/1/99

BENCH MARKS	
STATION	31+00 TO 36+50
PROJECT	BLAKE ROAD, S.W. STA 31+50 TO 36+50
DESIGNED BY	R. J. LUCERO
CHECKED BY	R. J. LUCERO
APPROVED BY	R. J. LUCERO
DATE	7/1/99

SURVEY INFORMATION	
DATE	2/94
BY	SJT, JES, NKG
NO.	1

ENGINEER'S SEAL	
NO.	1
DATE	7/1/99
PROJECT	BLAKE ROAD, S.W. STA 31+50 TO 36+50
DESIGNED BY	R. J. LUCERO
CHECKED BY	R. J. LUCERO
APPROVED BY	R. J. LUCERO
DATE	7/1/99

REVISIONS	
NO.	1
DATE	7/1/99
PROJECT	BLAKE ROAD, S.W. STA 31+50 TO 36+50
DESIGNED BY	R. J. LUCERO
CHECKED BY	R. J. LUCERO
APPROVED BY	R. J. LUCERO
DATE	7/1/99

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BLAKE ROAD, S.W./STA 31+50 TO 36+50
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIB)

Design Review Committee		City Engineer Approval		Mo./Day/Yr.	
APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
DATE	DATE	DATE	DATE	DATE	DATE
PROJECT	PROJECT	PROJECT	PROJECT	PROJECT	PROJECT
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
APPROVED BY	APPROVED BY	APPROVED BY	APPROVED BY	APPROVED BY	APPROVED BY
DATE	DATE	DATE	DATE	DATE	DATE

LANDS OF KENNETH E. JENSEN
FILED: 06-25-84
VOL. C24, FOLIO 76

SEE SHEET 15 OF 21 FOR CONTINUATION

SEE SHEET 16 OF 21 FOR CONTINUATION

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

LEGEND

- NEW EXIST.
- SAS SANITARY SEWER
 - W WATER LINE
 - G GAS LINE
 - UT UNDERGROUND TELEPHONE LINE
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 - CATV UNDERGROUND CABLE TV LINE
 - TR TELEPHONE BOX
 - MH SANITARY SEWER MANHOLE
 - WV WATER VALVE
 - WM WATER METER
 - GM GAS METER
 - FH FIRE HYDRANT
 - PP POWER POLE
- GATE BUTTERFLY
- SINGLE DOUBLE

WATER SERVICES

TRACT	STATION	SIZE	LENGTH x DIA	TYPE
A-1	39+04	3/4"	5' x 3/4"	DOUBLE
A-2	"	3/4"	"	"
A-3	41+85	3/4"	5' x 3/4"	DOUBLE
A-4	"	3/4"	"	"
CEMETERY	45+75	3/4"	5' x 3/4"	SINGLE
2A1A2	45+15	3/4"	55' x 3/4"	DOUBLE
2A1B	"	3/4"	"	"

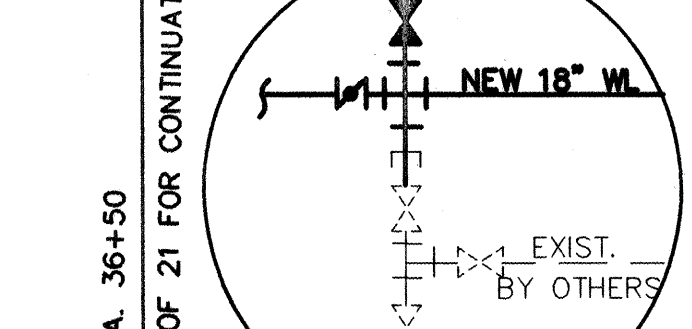
SEWER SERVICES

LOT	STATION	SIZE	LENGTH	INV. @ PI
A-1	38+85	4"	EXIST.	4989.0
A-2	39+04	4"	EXIST.	4989.7
A-3	41+59	4"	EXIST.	4979.7
A-4	41+67	4"	35'	4976.0
3823A	44+02	4"	30'	4966.5
2740-A	42+75	4"	30'	4974.0
2140-B	43+40	4"	30'	4968.5
3819	45+80	4"	30'	4965.0

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BLAKE ROAD, S.W./STA 36+50 TO 47+00
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIB)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
City Project Engineer	Zone Map Engineer		
4515.97	N-10-Z	Sheet	7 Of 21



STA. 43+92, 15' LT
INSTALL 1-6" x 6" MJ TEE
INSTALL 1-6" MJ GATE VALVE
W/TYPE "B" VALVE BOX
1-4.5' BURY FH
(ROTATE HEAD 90 DEGREES)
F.L.E. ELEV. 4979.2
1-6" RESTRAINED CAP

STA. 43+92.06, 15' LT
INSTALL 1-18" x 12" MJ TEE
INSTALL 1-12" x 6" MJ REDUCER

STA. 46+05, 25' LT.
REMOVE EXIST. 8" PLUG
INSTALL 1-18" x 8" MJ TEE
INSTALL 1-18" NON-PRESSURE CONNECTION
REMOVE EXIST. 8" GY & 12" x 8" CON. RED.
INSTALL 1-12" PLUG
INSTALL 1-8" RESTRAINED PLUG

STA. 46+36, 25' LT
BUILD 18"-4" x 9'-0"
STD. PRV STATION W/POWER/TELEMETRY
10" PIPE, W/3" BYPASS
PER SHT. 20 OF 21
FLOOR ELEV. = 4963.50
TOP ELEV. = 4970.50
2-18" x 10" MJ ECCENTRIC REDUCERS
RESTRAIN REDUCERS 119' ON 10' SIDE,
AND 77' ON 18' SIDE.

STA. 46+71, 20' LT
INSTALL 1-18" x 12" MJ TEE
1-10" MJ GATE VALVE
W/TYPE "A" VALVE BOX
2-18" 45° BENDS
1-12" MJ GATE VALVE
W/TYPE "B" VALVE BOX
1-12" MJ 90° BEND & CAP
CONNECT TO EXIST. 12" WATERMAIN

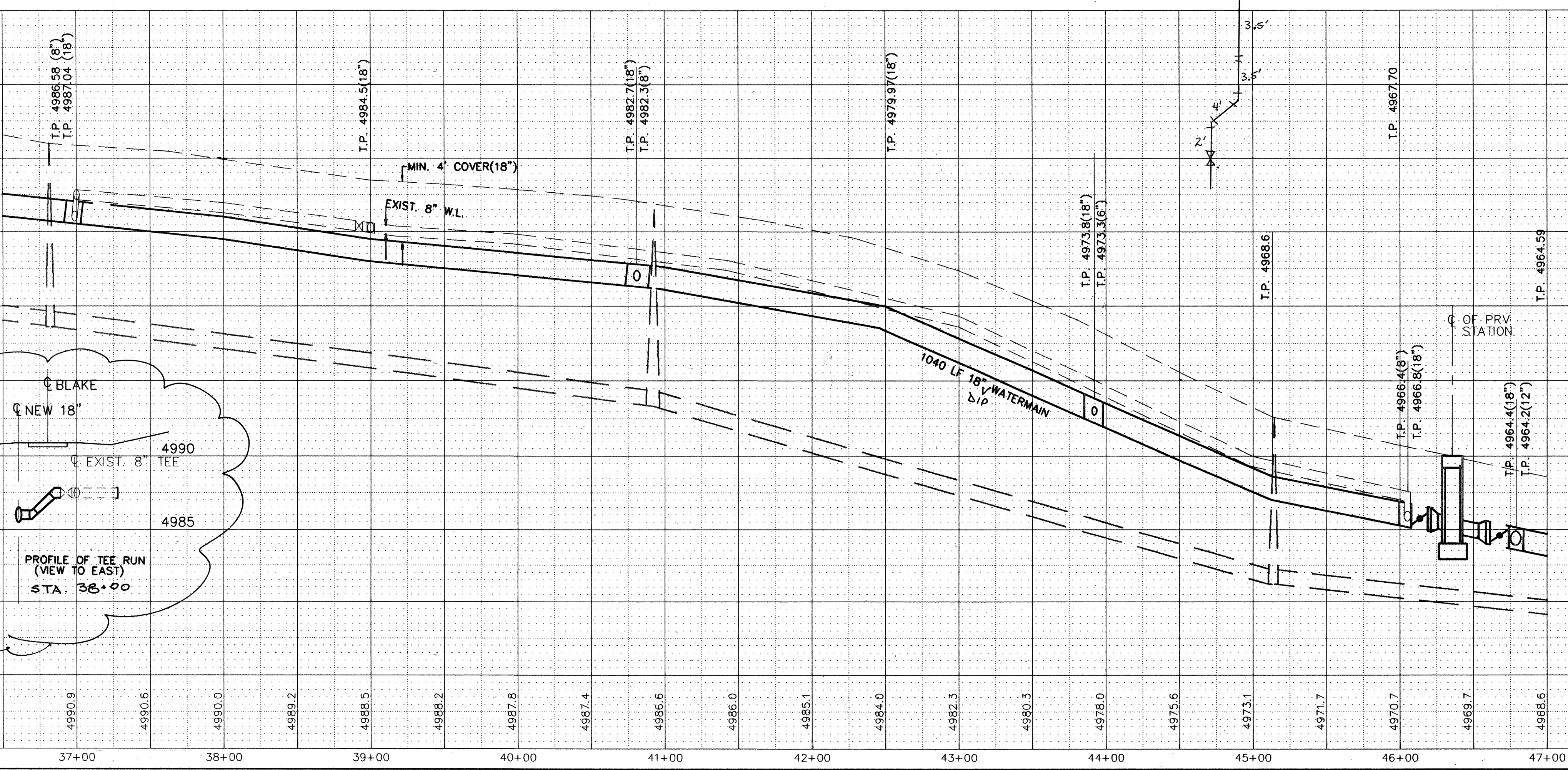
NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT
REQUIREMENTS SEE SHT. 19 OF 21

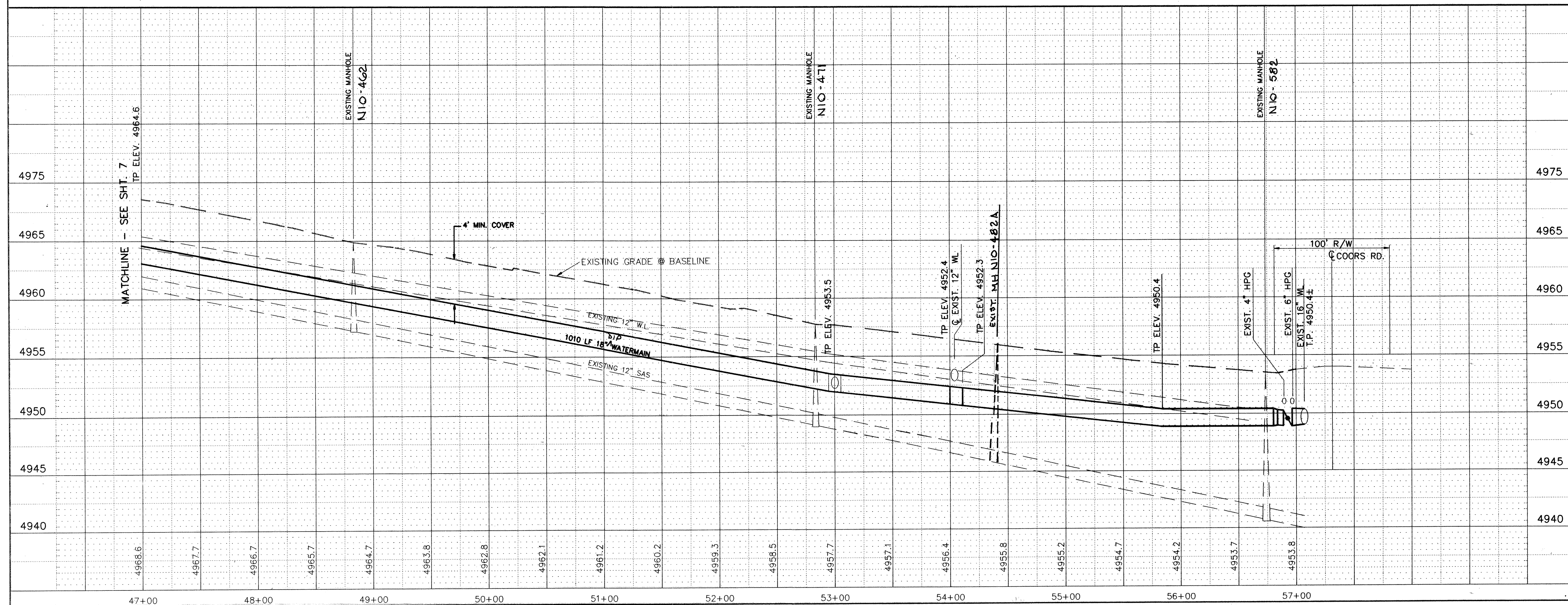
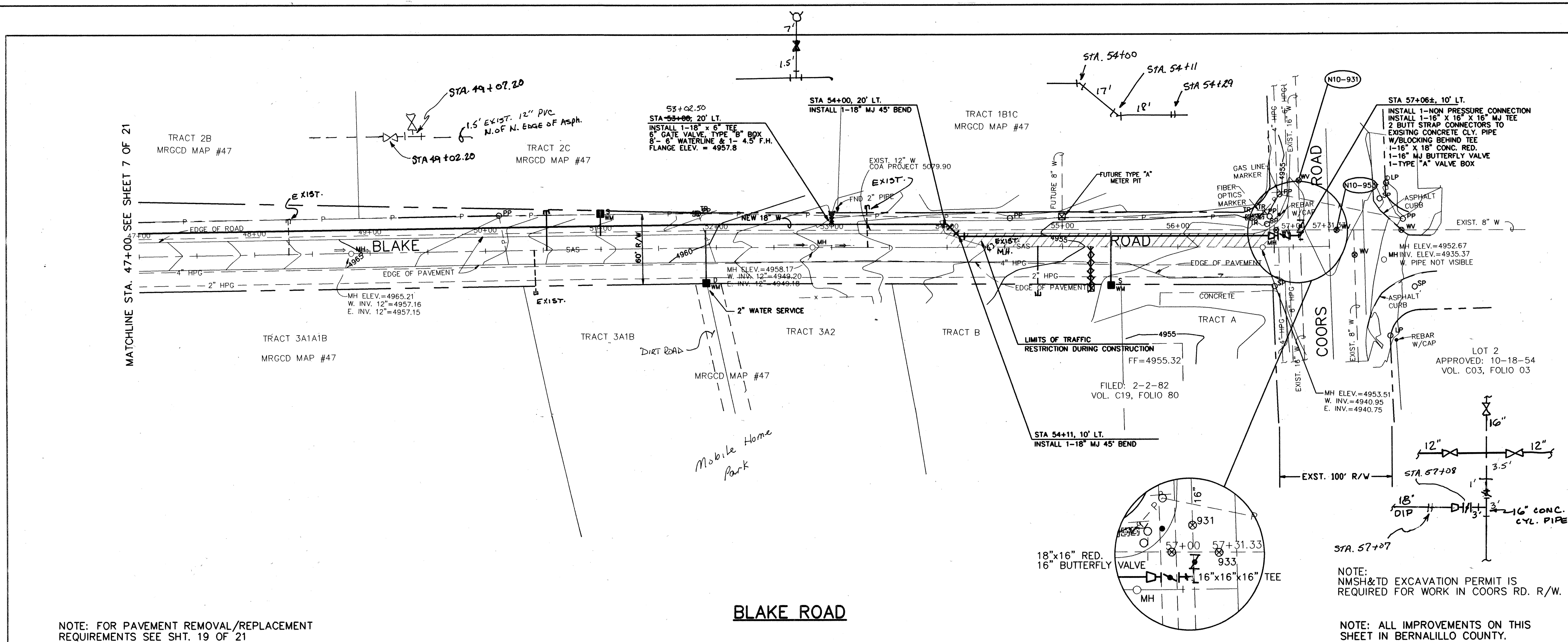
BLAKE ROAD
(CITY/COUNTY)

NOTE: PROVIDE NEW 4" SERVICE STUBS
AND 3/4" WATER SERVICE TO EXISTING
LOTS NOT ALREADY SERVED FROM EXISTING
LINES. COORDINATE WITH ENGR. & RESIDENTS, TYP.

NOTE: IMPROVEMENTS ON THIS SHEET ARE WITHIN
CITY AND COUNTY, CHANGING JURISTDICTION AT
STA. 37+65 AS SHOWN.

PROFILE OF TEE RUN
(VIEW TO EAST)
STA. 38+00





AS-BUILT INFORMATION

CONTRACTOR: Russ Piney Engineering

DATE: 7/1/97

INSPECTOR'S SIGNATURE: R. LUCERO

DATE: 7/1/97

VERIFICATION BY: R. J. PALLERTE

DATE: 7/1/97

COMPLETED BY: JED

DATE: 7/1/97

MICRO-FILM INFORMATION

RECORDED BY: BARCELONA DR. & COORS RD. INTERSECTION. ELEV. 4941.12

NO.

BENCH MARKS

BENCHMARK USED IS A STANDARD ACS BRASS CAP STAMPED "ACS 45-7A, 1976" LOCATED 42.3' WEST OF THE INTERSECTION OF S. COORS RD. & BLAKE RD. SW ELEV. 4953.487. TBM IS A 5/8" BAR W/CAP STAMPED "PANEL PT. 21", SET ON THE EAST SIDE OF THE BARCELONA DR. & COORS RD. INTERSECTION. ELEV. 4941.12

DATE: 2/94

BY: SUT, JES, NKG

NO. 1

ENGINEER'S SEAL

REMARKS

NO. DATE

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY: RJP

DRAWN BY: PRO

CHECKED BY:

DATE: JULY 1997

DATE:

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

BLAKE ROAD, S.W./STA 47+00 TO COORS RD.

SOUTH VALLEY WATER AND SEWER

SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)

Design Review Committee

City Engineer Approval

Mo./Day/Yr.

Mo./Day/Yr.

4515.97

N-10

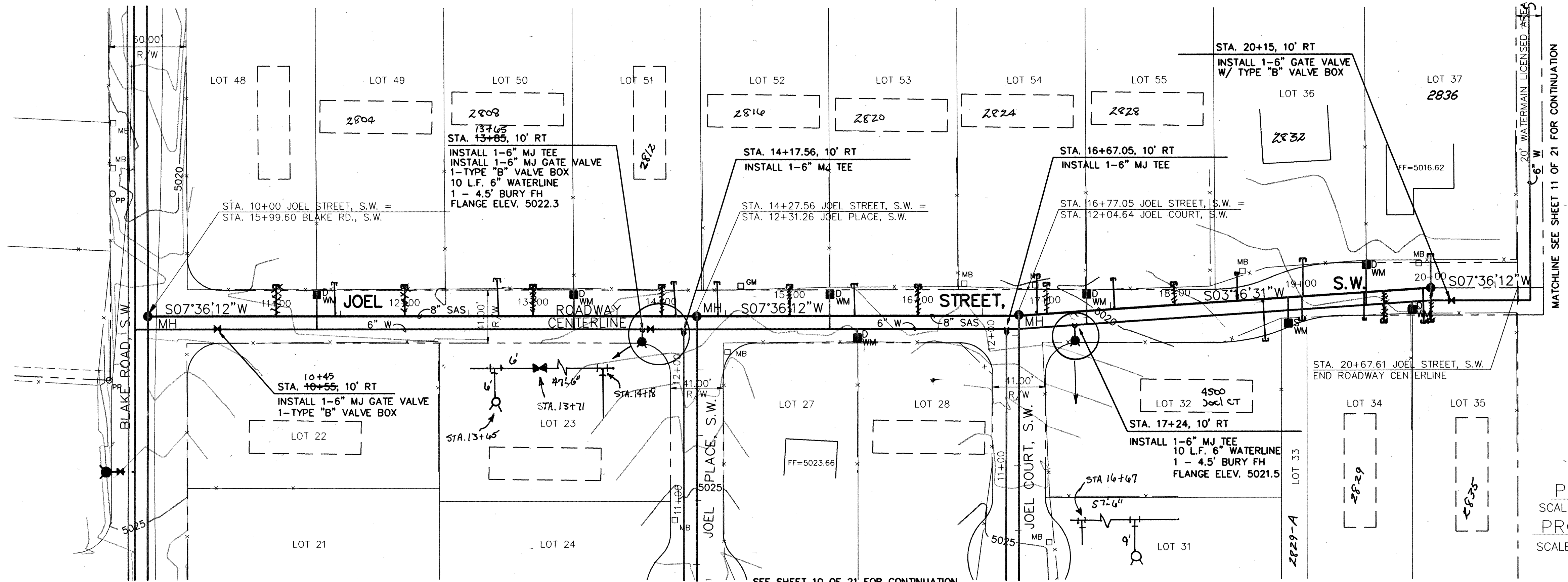
Sheet 8 of 21

WILSON & COMPANY

X:\PUBLIC\PROJECTS\97011\DWG\BLAKE\7011BL08.DWG

SEE SHEET 3 OF 21 FOR CONTINUATION

BLAKE VIEW MOBILE VILLAGE/FILED: SEPTEMBER 10, 1974/VOLUME D6, FOLIO 82



SEE SHEET 3 OF 21 FOR CONTINUATION

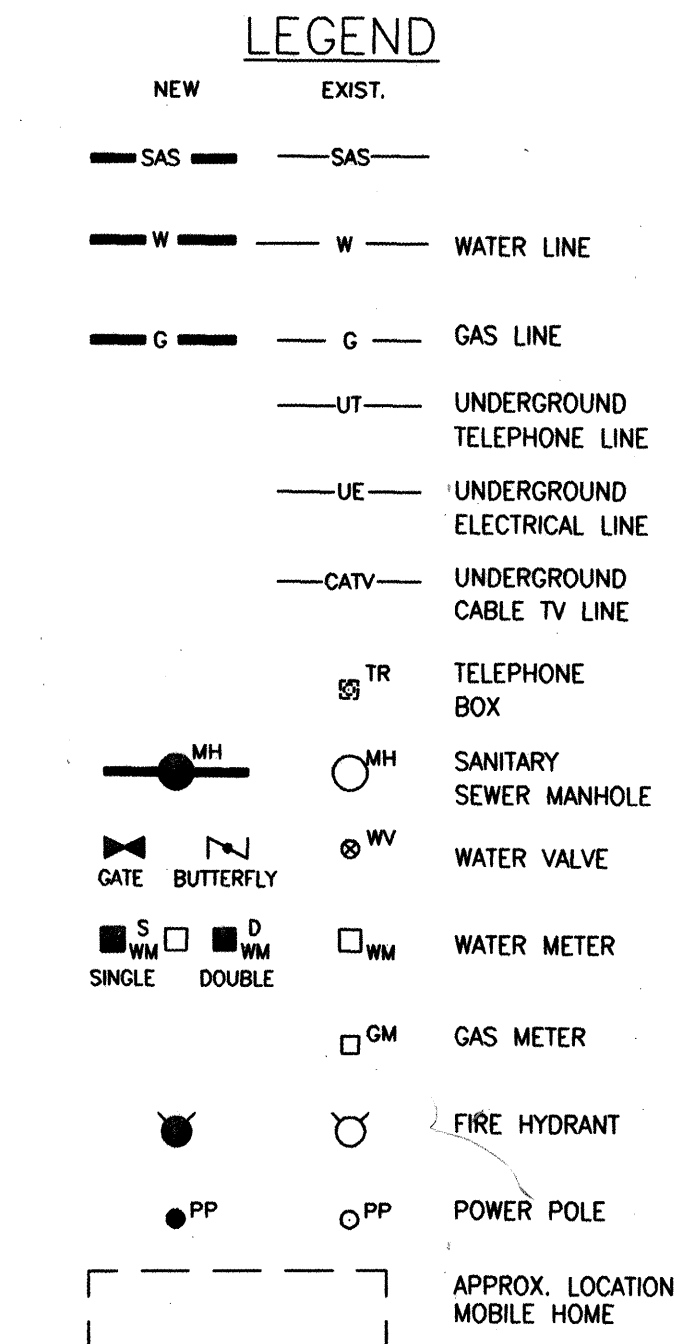
BLAKE VIEW MOBILE VILLAGE/FILED: SEPTEMBER 10, 1974/VOLUME D6, FOLIO 82

JOEL STREET, S.W.

NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT REQUIREMENTS SEE SHT. 19 OF 21

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN BERNALILLO COUNTY.

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



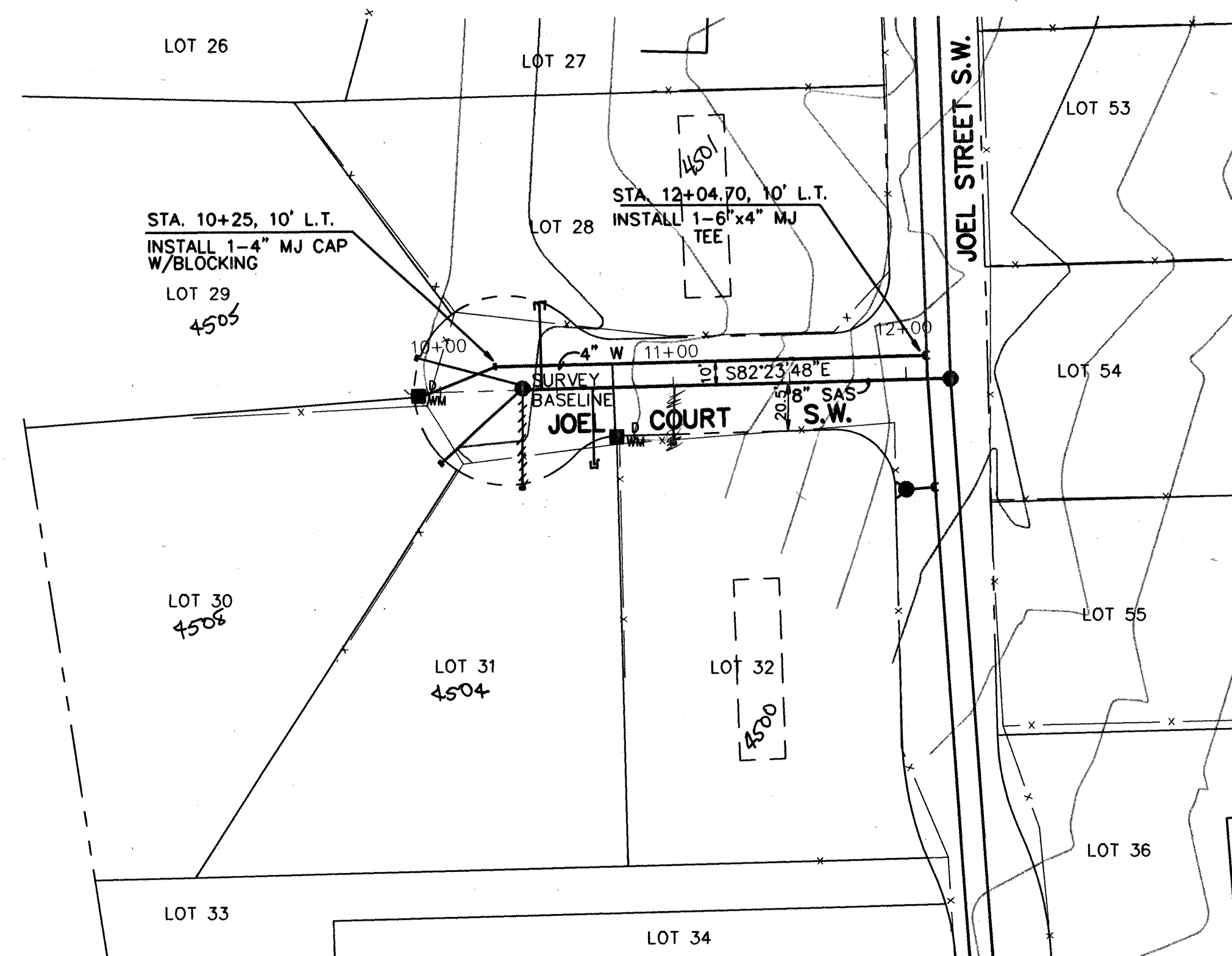
SEWER SERVICES				
LOT	STATION	SIZE	LENGTH	INV. @ PL
27	15+05 RT	4"	20'	5015.5
28	16+05 RT	4"	20'	5015.5
34	19+50 RT	4"	20'	5012.0
35	19+24 RT	4"	20' 26"	5012.0
36	18+49 LT	4"	20' 21"	5011.0
37	20+00 LT	4"	20' 23"	5011.0
48	11+00 LT	4"	20'	5016.0 4 FT. 3"
49	11+47 LT	4"	20' 28"	5015.0
50	12+73 LT	4"	20' 29"	5015.5
51	14+12 LT	4"	20' 26"	5016.0
52	14+44 LT	4"	20' 27"	5016.0
53	15+50 LT	4"	20' 23"	5015.0
54	16+91 LT	4"	20' 30"	5016.0
55	17+53 LT	4"	20' 24.5"	5014.0
33	19+02 RT	4"	20' 32"	5013.0
32	18+69 RT	4"	31'	5' DEEP

WATER SERVICES				
LOT	STATION	SIZE	LENGTH	TYPE
27	15+55 RT	3/4"	10'x3/4"	DOUBLE
28	"	"	"	"
34	19+85 RT	3/4"	10'x3/4"	DOUBLE
35	"	"	"	"
36	19+50 LT	3/4"	30'x3/4"	DOUBLE
37	"	"	"	"
48	11+32 LT	3/4"	30'x3/4"	DOUBLE
49	"	"	"	"
50	13+32 LT	3/4"	30'x3/4"	DOUBLE
51	"	"	"	"
52	15+32 LT	3/4"	30'x3/4"	DOUBLE
53	"	"	"	"
54	17+32 LT	3/4"	30'x3/4"	DOUBLE
55	"	"	"	"
33	18+90 RT	3/4"	15'x3/4"	SINGLE

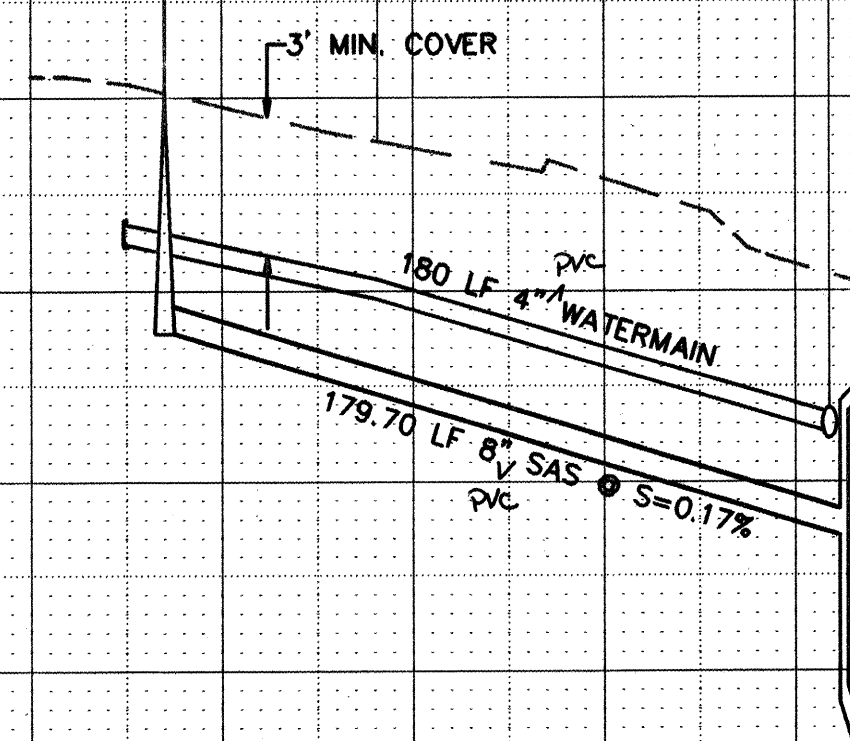
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

JOEL STREET, S.W.
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
City Project No.	Zone Map No.	Sheet	9 of 21
4515.97	N-10		



NOTE: ALL IMPROVEMENTS ON THIS SHEET IN BERNALILLO COUNTY.



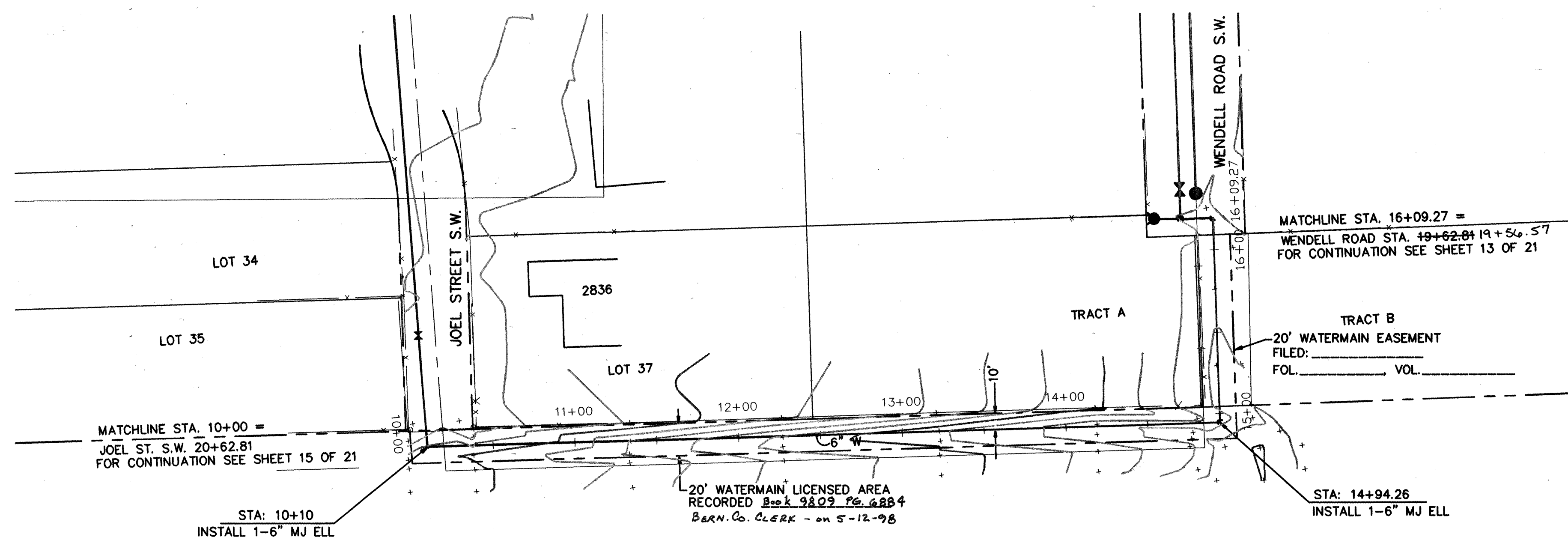
WATER SERVICES				
LOT	STATION	SIZE	LENGTH	TYPE
23	11+00 LT	3/4"	10'x3/4"	DOUBL
24	"			
25	10+25	3/4"	45'x3/4"	DOUBL
26	"			
29	10+25	3/4"	45'x3/4"	DOUBLE
30	"			
31	10+75 RT	3/4"	30'x3/4"	DOUBLE
32	"			

JOEL PLACE/JOEL COURT, S.W.
SOUTH VALLEY WATER AND SEWER
STEM IMPROVEMENT PROJECT(U-1 AREA,PHASE I

City Project No. **4515.97** Zone Map No. **N-10**

[illegible]

WILSON
& COMPANY



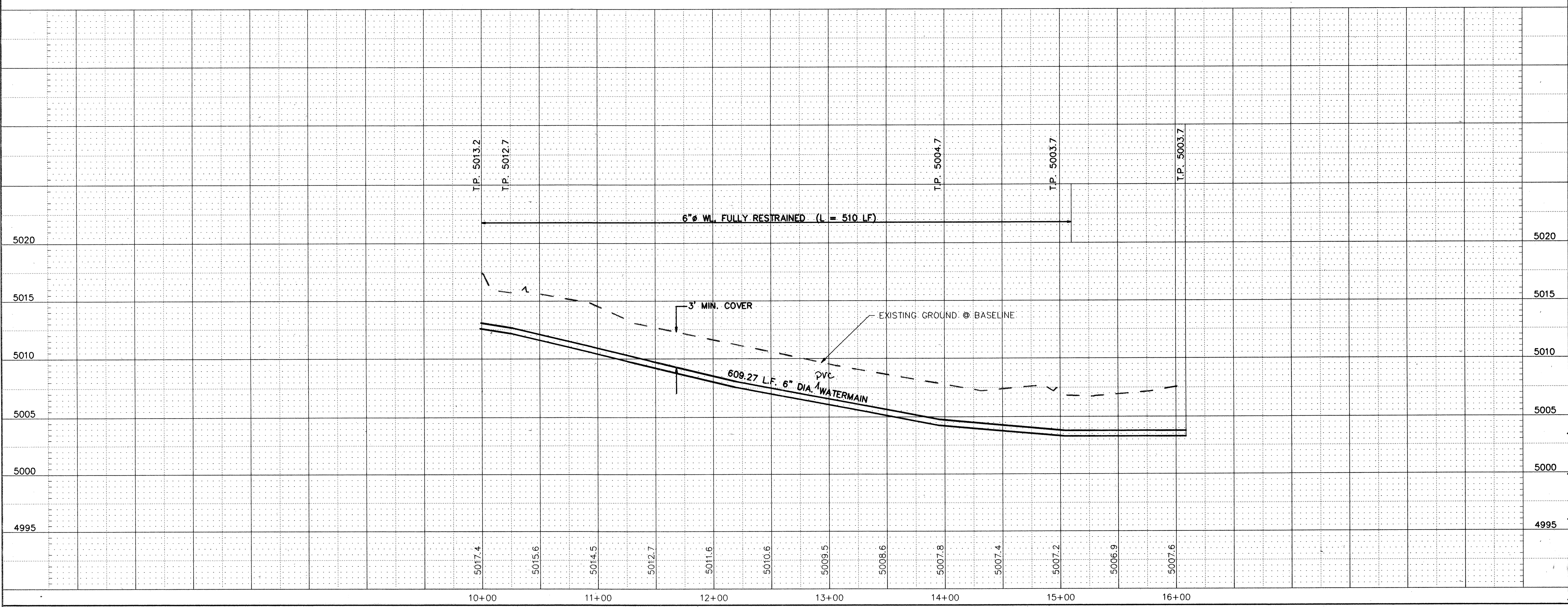
NOTE: ALL WATERMAIN JOINTS SHALL BE RESTRAINED WITHIN AMAFCA LAND RIGHT-OF-WAY EASEMENT.

NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT REQUIREMENTS SEE SHT. 19 OF 21

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN BERNALILLO COUNTY.

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

- LEGEND
- | | | |
|------|--------|-----------------------------|
| NEW | EXIST. | C & G |
| SAS | SAS | SANITARY SEWER |
| W | W | WATER LINE |
| G | G | GAS LINE |
| SD | SD | STORM DRAIN |
| UT | UT | UNDERGROUND TELEPHONE LINE |
| UE | UE | UNDERGROUND ELECTRICAL LINE |
| CATV | CATV | UNDERGROUND CABLE TV LINE |
| TC | TC | TRAFFIC SIGNAL CONDUIT |
| TR | TR | TELEPHONE BOX |
| SD | SD | STORM DRAIN MANHOLE |
| MH | MH | SANITARY SEWER MANHOLE |
| WV | WV | WATER VALVE |
| WM | WM | WATER METER |
| GV | GV | GAS VALVE |
| GM | GM | GAS METER |
| PH | PH | FIRE HYDRANT |
| PP | PP | POWER POLE |
| SP | SP | SIGNAL PEDESTAL |
| PB | PB | PULL BOX |
| LP | LP | LIGHT POLE |
| SI | SI | STORM INLET |
| TS | TS | TREE/SHRUB |
| SE | SE | SPOT ELEVATION |

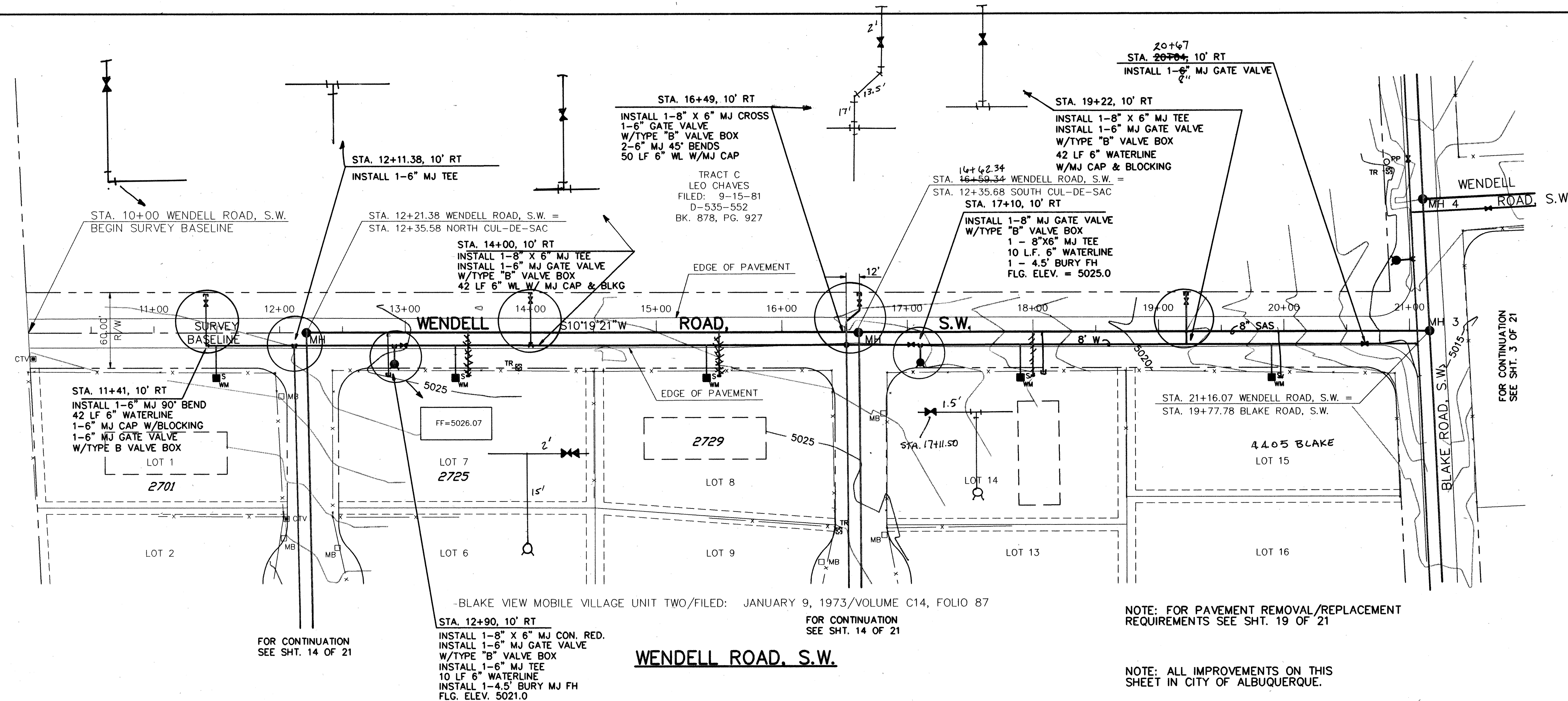


AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DESIGNER	DATE	BENCHMARK USED	DATE	NO.	BY	DATE	NO.	DATE	REMARKS	BY
W&C	W&C	7/1/99	STANDARD ACS BRASS CAP	2/94	1	SJT, JES, NKG	2/94	1	7/1/99	REVISIONS	WILSON & COMPANY, ENGINEERS & ARCHITECTS
STAMPED BY	STAMPED BY	DATE	STAMPED BY	DATE	NO.	DATE	DATE	NO.	DATE	DESIGNED BY	DATE
R. LUCERO	R. LUCERO	7/1/99	R. LUCERO	7/1/99	1	7/1/99	7/1/99	1	7/1/99	DRAWN BY	DATE
PRO	PRO	7/1/99	PRO	7/1/99	1	7/1/99	7/1/99	1	7/1/99	CHECKED BY	DATE
RECORDED BY	RECORDED BY	DATE	RECORDED BY	DATE	NO.	DATE	DATE	NO.	DATE		

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

AMAFCA R.O.W.
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
DESIGN	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	11 of 21
4515.97	N-10		



STA. 12+90, 10' RT
INSTALL 1-8" X 6" MJ CON. RED.
INSTALL 1-6" MJ GATE VALVE
W/TYPE "B" VALVE BOX
INSTALL 1-6" MJ TEE
10 LF 6" WATERLINE
INSTALL 1-4.5' BURY MJ FH
FLG. ELEV. 5021.0

NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT
REQUIREMENTS SEE SHT. 19 OF 21

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN CITY OF ALBUQUERQUE.

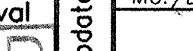
WENDELL ROAD. S.W.

SEWER SERVICES				
LOT	STATION	SIZE	LENGTH	INV. @ PL
7	12+85 RT	4"	40' 33'	5019.4
8	15+50 RT	4"	40'	5018.7
14	18+06 RT	4"	40' 32'	5016.6
15	19+96 RT	4"	37'	5' DEEP

WATER SERVICES				
LOT	STATION	SIZE	LENGTH	TYPE
1	11+40 RT	3/4"	30'	SINGLE
7	13+40 RT	3/4"	30'	SINGLE
8	15+40 RT	3/4"	30'	SINGLE
14	17+90 RT	3/4"	30'	SINGLE
15	19+90 RT	3/4"	30'	SINGLE

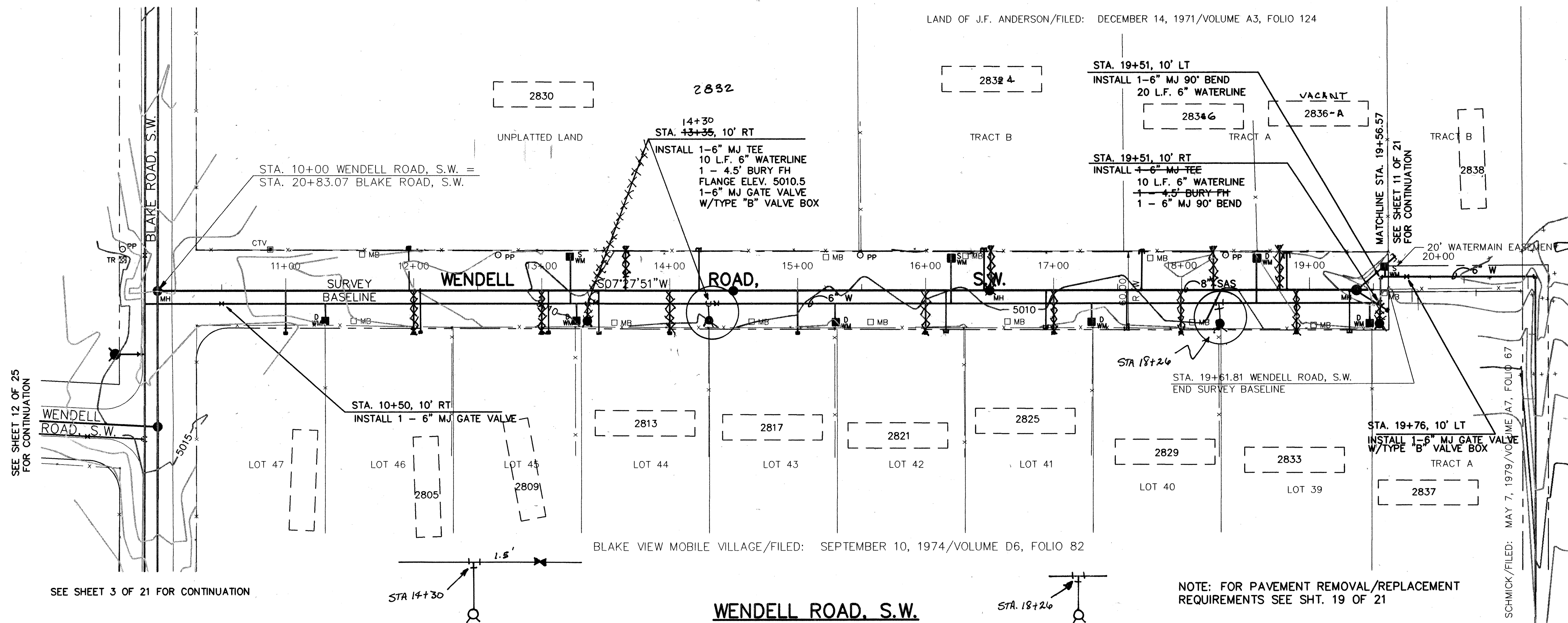
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

WENDELL ROAD, S.W.(NORTH OF BLAKE)
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)

Design Review Committee 		City Engineer Approval 		Last Design Update 	Mo./Day/Yr.	Mo./Day/Yr.
DESIGN REVIEW COMMITTEE		CITY ENGINEER			_____	_____
City Project No. 4515.97		Zone Map No. N-10		Sheet	12 ^{Of}	21

WILSON
& COMPANY

SEE SHEET 4 OF 21 FOR CONTINUATION



SEE SHEET 12 OF 25 FOR CONTINUATION

SEE SHEET 3 OF 21 FOR CONTINUATION

LAND OF J.F. ANDERSON/FILED: DECEMBER 14, 1971/VOLUME A3, FOLIO 124

BLAKE VIEW MOBILE VILLAGE/FILED: SEPTEMBER 10, 1974/VOLUME D6, FOLIO 82

NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT REQUIREMENTS SEE SHT. 19 OF 21

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN BERNALILLO COUNTY.

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



LEGEND

NEW	EXIST.	
SAS	SAS	SANITARY SEWER
W	W	WATER LINE
G	G	GAS LINE
UT	UT	UNDERGROUND TELEPHONE LINE
UE	UE	UNDERGROUND ELECTRICAL LINE
CATV	CATV	UNDERGROUND CABLE TV LINE
TR	TR	TELEPHONE BOX
MH	MH	SANITARY SEWER MANHOLE
WV	WV	WATER VALVE
WM	WM	WATER METER
GM	GM	GAS METER
PP	PP	FIRE HYDRANT
PP	PP	POWER POLE
		APPROX. LOCATION MOBILE HOME

SEWER SERVICES					
ADDRESS	STATION	SIZE	LENGTH	INV.	PL
LOT 47	11+00 RT	4"	30'	5008.3	
2805	12+26 RT	4"	30'	5007.0	
2809	13+26 RT	4"	30'	5005.9	
2813	13+44 RT	4"	30'	5005.3	
2817	15+00 RT	4"	30'	5005.5	
2821	15+29 RT	4"	30'	5005.8	
2825	17+30 RT	4"	30'	5005.9	
2829	17+57 RT	4"	30'	5005.4	
2833	18+13 RT	4"	30'	5004.4	
2837	19+35 RT	4"	30'	5003.0	
2830	11+96 LT	4"	30'	5005.8	
2832	12+26 LT	4"	30'	5005.7	
2834	13+26 LT	4"	30'	5005.6	
2836	14+26 LT	4"	30'	5004.6	
2838	19+35 LT	4"	30'	5003.0	
2836-A	18+13 LT	4"	30'	5004.6	

WATER SERVICES				
ADDRESS	STATION	SIZE	LENGTH/DIA.	TYPE
LOT 47	11+31 RT	3/4"	20' x 3/4"	DOUBLE
2805	"	3/4"	20' x 3/4"	DOUBLE
2809	13+26 RT	3/4"	20' x 3/4"	DOUBLE
2813	"	3/4"	20' x 3/4"	DOUBLE
2817	15+29 RT	3/4"	20' x 3/4"	DOUBLE
2821	"	3/4"	20' x 3/4"	DOUBLE
2825	17+30 RT	3/4"	20' x 3/4"	DOUBLE
2829	"	3/4"	20' x 3/4"	DOUBLE
2833	19+46 RT	3/4"	20' x 3/4"	DOUBLE
2837	"	3/4"	20' x 3/4"	DOUBLE
2830	13+20 LT	3/4"	30' x 3/4"	SINGLE
2832	16+20 LT	3/4"	30' x 3/4"	SINGLE
2834	18+60 LT	3/4"	30' x 3/4"	DOUBLE
2836-A	"	3/4"	30' x 3/4"	DOUBLE
2838	19+55 LT	3/4"	30' x 3/4"	SINGLE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

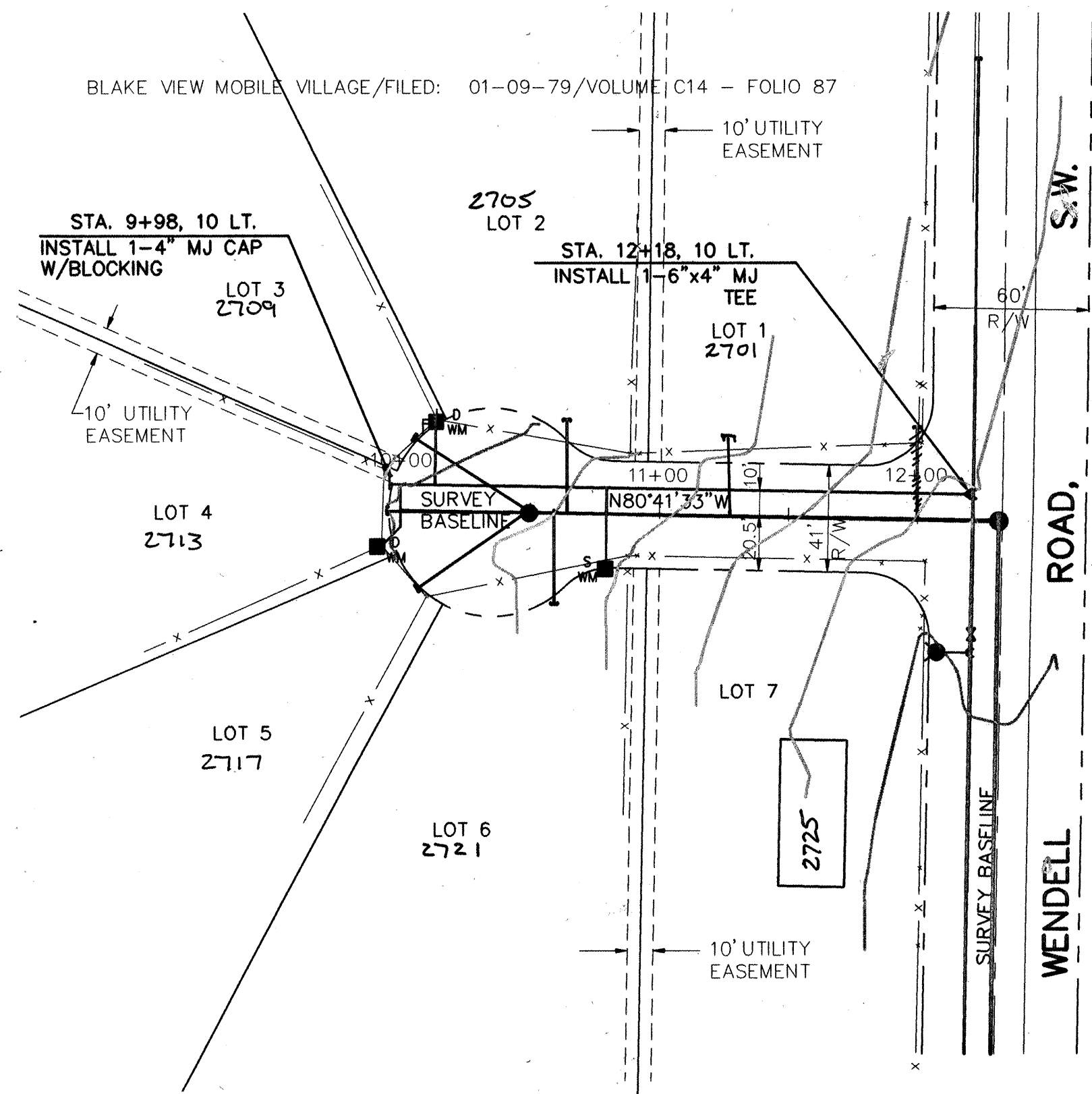
WENDELL ROAD, S.W.(SOUTH OF BLAKE)
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)

Design Review Committee	City Engineer Approval
APPROVE	APPROVE
DESIGN	CITY ENGINEER
City Project No.	Zone Map No.
4515.97	N-10

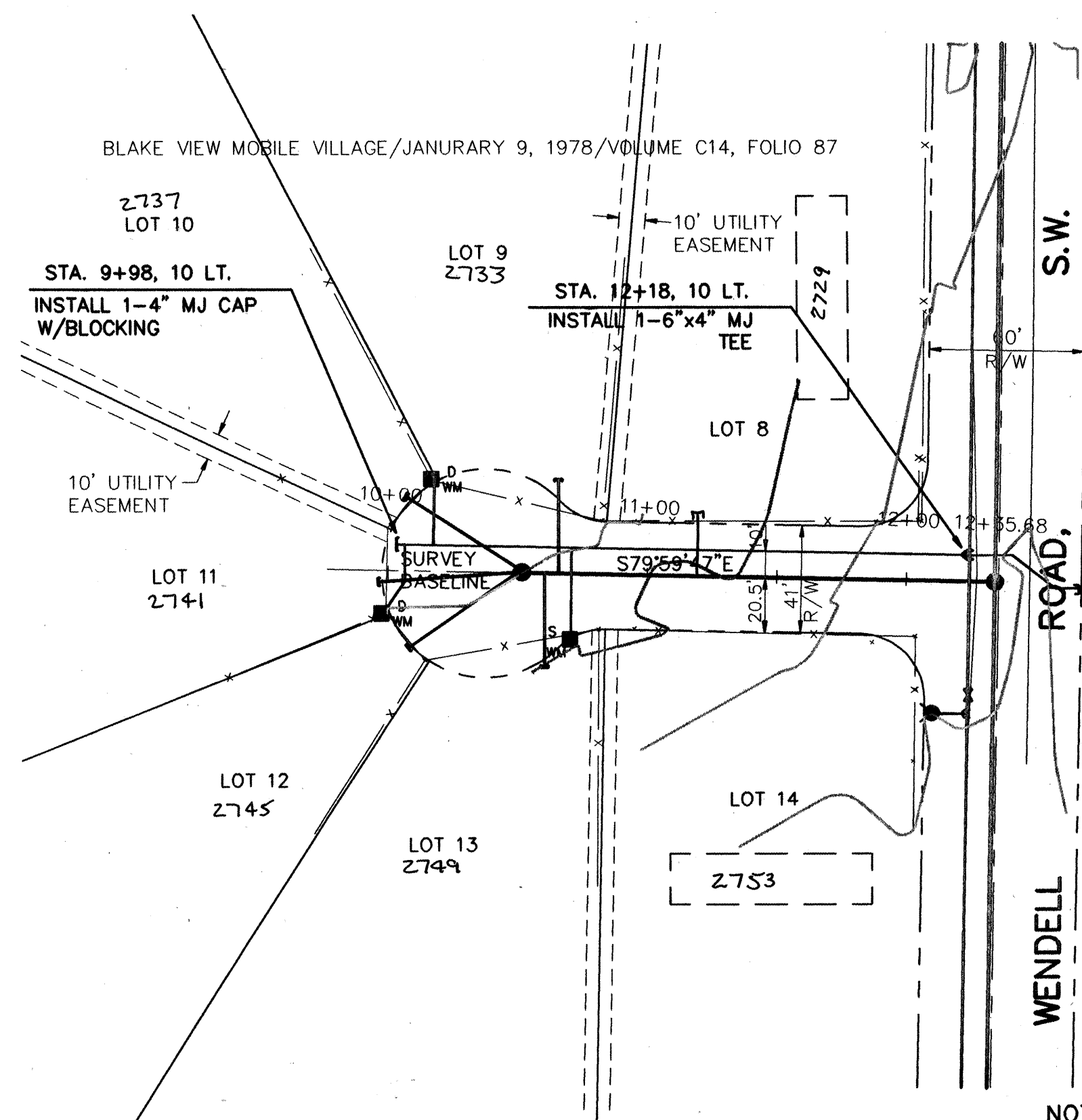
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	BENCHMARK USED IS A STANDARD ACS BRASS CAP	DATE	FIELD NOTES	NO.		
STAMPED BY	DATE	STAMPED "NM 45-7A" LOCATED AT THE INTERSECTION	DATE	BY	BY		
ACCEPTANCE BY	DATE	OF BLAKE RD AND COORS RD., S.W. ELEV = 4953.487	DATE	SUT. JES. NKG	REMARKS		
FIELD LOCATION BY	DATE		DATE	1	REVISIONS		
DRAWN BY	DATE		DATE		DESIGNED BY	WILSON & COMPANY, ENGINEERS & ARCHITECTS	
CHECKED BY	DATE		DATE		DATE		
RECORDED BY	DATE		DATE		DATE		
	DATE		DATE		DATE		

WILSON
& COMPANY

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NORTH CUL-DE-SAC



SOUTH CUL-DE-SAC

NOTE: ALL IMPROVEMENTS ON THIS SHEET IN CITY OF ALBUQUERQUE.

NOTE: FOR PAVEMENT REMOVAL/REPLACEMENT REQUIREMENTS SEE SHT. 19 OF 21

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

LEGEND

- NEW EXIST.
- SAS SANITARY SEWER
- W WATER LINE
- G GAS LINE
- UT UNDERGROUND TELEPHONE LINE
- UE UNDERGROUND ELECTRICAL LINE
- CATV UNDERGROUND CABLE TV LINE
- TR TELEPHONE BOX
- MH SANITARY SEWER MANHOLE
- WV WATER VALVE
- WM WATER METER
- GM GAS METER
- PP POWER POLE
- APPROX. LOCATION MOBILE HOME
- GATE BUTTERFLY SINGLE DOUBLE

SEWER SERVICES

LOT	STATION	SIZE	LENGTH	INV. @ PL
1	11+27 LT	4"	24'	5022.0
2	10+53 LT	4"	24'	5025.0
3	10+38 LT	4"	46'	5025.0
4	10+38	4"	50'	5025.0
5	10+38 RT	4"	51'	5025.0
6	10+38 RT	4"	43'5"	5025.0
8	11+19 LT	4"	24'	5022.0
9	10+65 RT	4"	34'	5022.0
10	10+38 LT	4"	34'	5022.0
11	10+38	4"	44'	5022.0
12	10+38 RT	4"	55'	5022.0
13	10+57 RT	4"	29'	5022.0

WATER SERVICES

LOT	STATION	SIZE	LENGTH/DIA	TYPE
2	10+17 LT	3/4"	25' x 3/4"	DOUBLE
3				
4	10+05 LT	3/4"	25' x 3/4"	DOUBLE
5				
6	10+70 RT	3/4"	30' x 3/4"	SINGLE
9	10+17 LT	3/4"	25' x 3/4"	DOUBLE
10				
11	10+05 RT	3/4"	25' x 3/4"	DOUBLE
12				
13	10+70 RT	3/4"	30' x 3/4"	SINGLE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

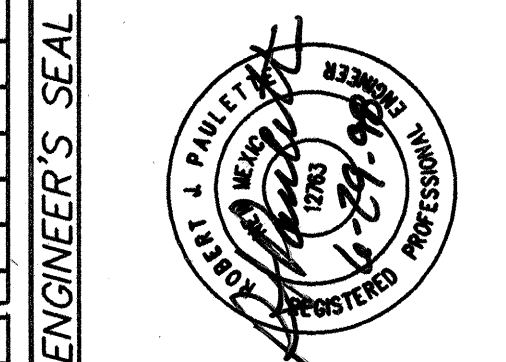
**N OR S CUL-DE-SAC(N. WENDELL RD.)
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)**

Design Review Committee City Engineer Approval

APPROVE

City Project No. 4515.97 Zone Map No. N-10

Sheet 14 of 21



REVISIONS

NO. DATE

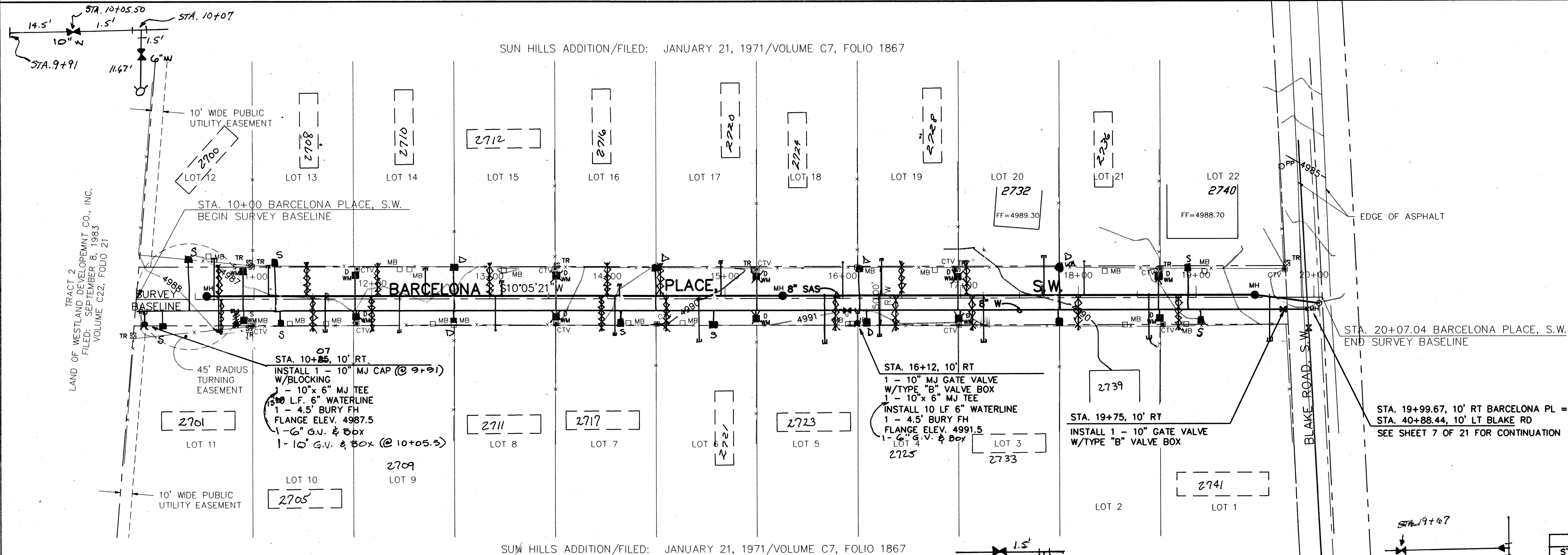
REMARKS

DESIGNED BY WILSON & COMPANY, ENGINEERS & ARCHITECTS

DRAWN BY RJP

CHECKED BY PRO

DATE JULY 1997



SEWER SERVICES				
STATION	LOT	STATION	SIZE	LENGTH
19+62 RT	1	18+85 RT	4"	77'
18+59 RT	2	18+00 RT	4"	59'
17+19.5 RT	3	17+10 RT	4"	9.5'
16+31 RT	4	16+45 RT	4"	14'
15+84 RT	5	15+95 RT	4"	11'
14+77 RT	6	14+50 RT	4"	27'
14+04 RT	7	13+95 RT	4"	9'
13+04 RT	8	13+05 RT	4"	9'
12+23.5 RT	9	12+00 RT	4"	23.5'
11+10.5 RT	10	11+50 RT	4"	39.5'
10+16.5 RT	11	10+72 RT	4"	44'
10+16.5 LT	12	10+70 LT	4"	0.5'
11+12 LT	13	11+45 LT	4"	27'
12+44 LT	14	12+05 LT	4"	39'
13+10 LT	15	13+00 LT	4"	10'
14+10 LT	16	14+00 LT	4"	10'
14+96 LT	17	14+55 LT	4"	59'
16+10 LT	18	16+00 LT	4"	10'
16+32 LT	19	16+50 LT	4"	18'
17+70 LT	20	17+05 LT	4"	65'
18+05 LT	21	18+05 LT	4"	0'

WATER SERVICES				
LOT	STATION	SIZE	LGTH/DIA	TYPE
1	19+05 RT	3/4"	10' x 3/4"	SINGLE
2	17+25 RT	3/4"	10' x 3/4"	DOUBLE
3	17+85 RT	3/4"	10' x 3/4"	DOUBLE
4	16+05 RT	3/4"	10' x 3/4"	DOUBLE
5	16+05 RT	3/4"	10' x 3/4"	DOUBLE
6	14+90 RT	3/4"	10' x 3/4"	SINGLE
7	14+10 RT	3/4"	10' x 3/4"	SINGLE
8	12+65 RT	3/4"	10' x 3/4"	DOUBLE
9	12+65 RT	3/4"	10' x 3/4"	DOUBLE
10	11+20 RT	3/4"	10' x 3/4"	SINGLE
11	10+20 RT	3/4"	10' x 3/4"	SINGLE
12	10+40 LT	3/4"	30' x 3/4"	SINGLE
13	11+11 LT	3/4"	30' x 3/4"	SINGLE
14	12+69 LT	3/4"	30' x 3/4"	DOUBLE
15	12+69 LT	3/4"	30' x 3/4"	DOUBLE
16	14+40 LT	3/4"	30' x 3/4"	DOUBLE
17	14+40 LT	3/4"	30' x 3/4"	DOUBLE
18	16+11 LT	3/4"	30' x 3/4"	DOUBLE
19	16+11 LT	3/4"	30' x 3/4"	DOUBLE
20	17+82 LT	3/4"	30' x 3/4"	DOUBLE
21	17+82 LT	3/4"	30' x 3/4"	DOUBLE
22	18+92 LT	3/4"	30' x 3/4"	SINGLE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

BARCELONA PLACE, S.W.
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIB)

Design Review Committee
APPROVED
CITY ENGINEER
APPROVED

City Project No. 4515.97
Zone Map No. N-10

Sheet 15 of 21

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED. CONTRACTOR IS NOT ALLOWED TO WORK BETWEEN THE HOURS FROM 10:00 P.M. TO 7:00A.M. IN RESIDENTIAL AREAS, EXCEPT WHEN PERFORMING OPERATIONS INVOLVING TEMPORARY LOSS OF UTILITY SERVICE.

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

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

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

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

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

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

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

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

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

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

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:

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

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

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

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

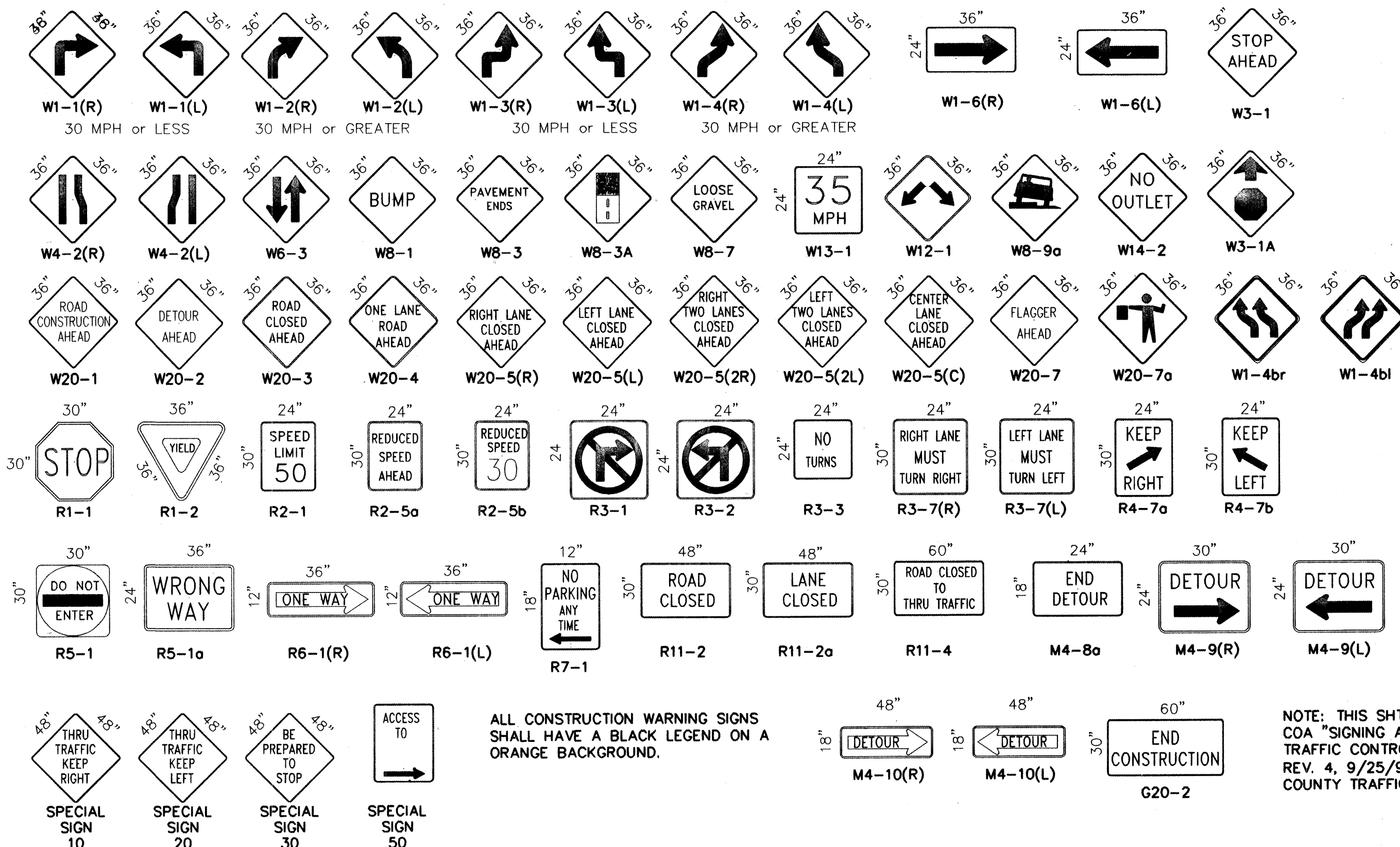
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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

BERNALILLO COUNTY TRAFFIC CONTROL GENERAL NOTES

- SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE & FLAGMEN AND SHALL MAINTAIN THE TRAFFIC LANES IN SUCH A MANNER AS TO ASSURE PROPERTY SAFETY TO THE TRAVELING PUBLIC ON ALL AFFECTED ROADS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE & PUBLIC PROPERTY AT ALL TIMES, EXCEPT WHEN GRADING, PAVING, EXCAVATION & BACK-FILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.
- TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED & SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
- A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES & LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT OR THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER.
- ALL NEW STREET PAVING ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATIONS OF THOSE AREAS.
- CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, ATTN: HOSS FOSTER.
- PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 & 83-28. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS. CONTRACTOR SHALL CALL 848-1500 FOR MORE INFORMATION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL MANAGER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH MUTCD REQUIREMENTS AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
- THE CONTRACTOR SHALL FILE WEEKLY WRITTEN REPORTS TO THE TRAFFIC CONTROL MANAGER DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.
- MAINTAIN 2-WAY TRAFFIC ON BLAKE ROAD DURING NON-WORKING HOURS.

SIGN FACE DETAILS



NOTE: THIS SHT. CONFORMS TO COA "SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS" REV. 4, 9/25/97, WITH BERNALILLO COUNTY TRAFFIC CONTROL NOTES ADDED.

LEGEND

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

TAPER REQUIREMENTS

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

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

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

TAPER CRITERIA

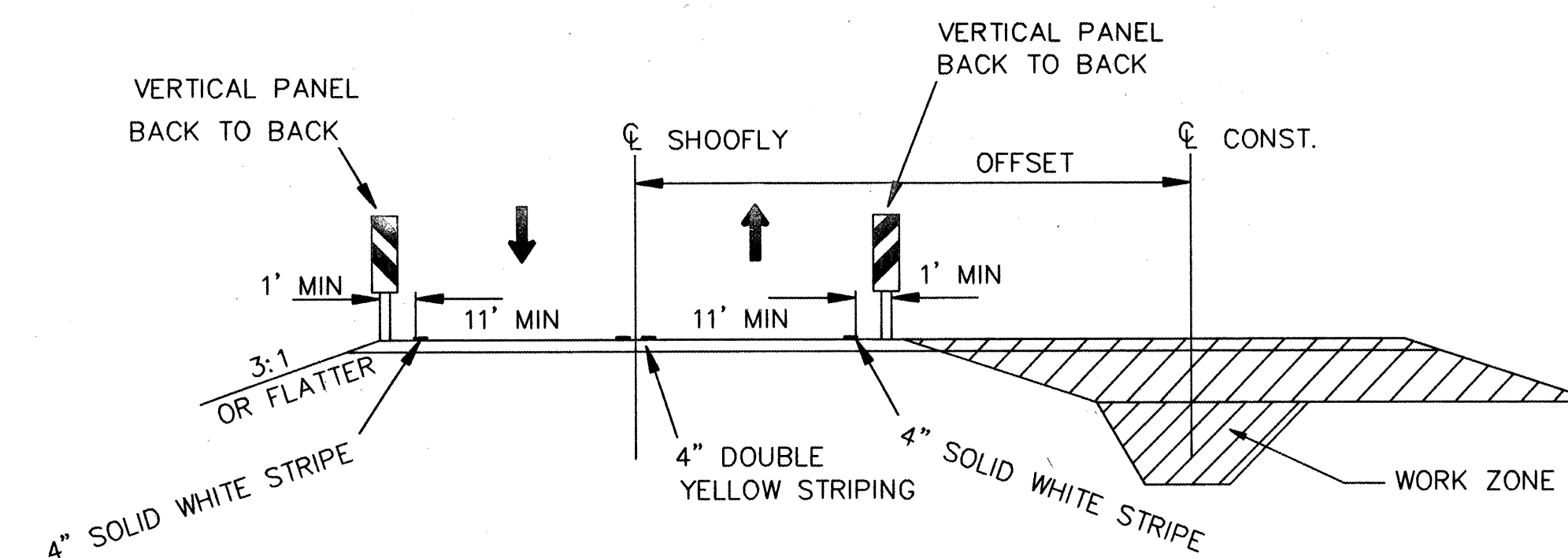
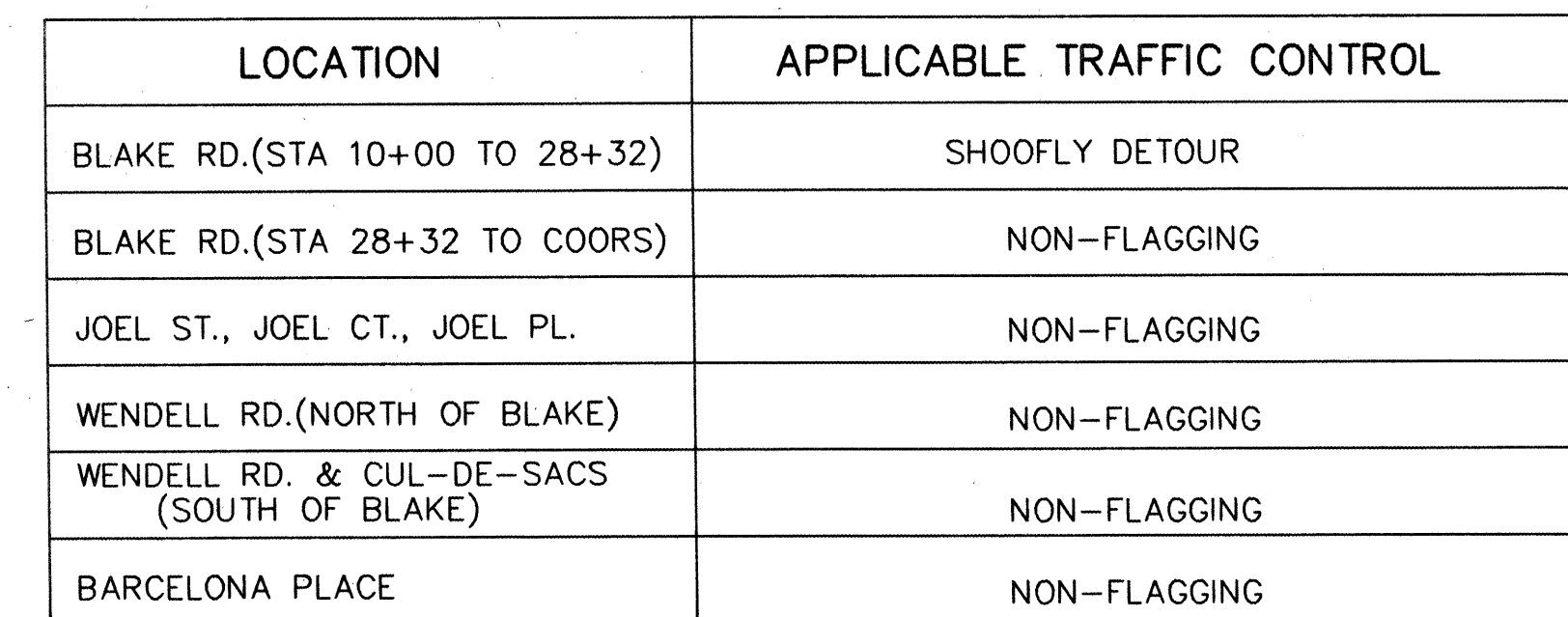
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

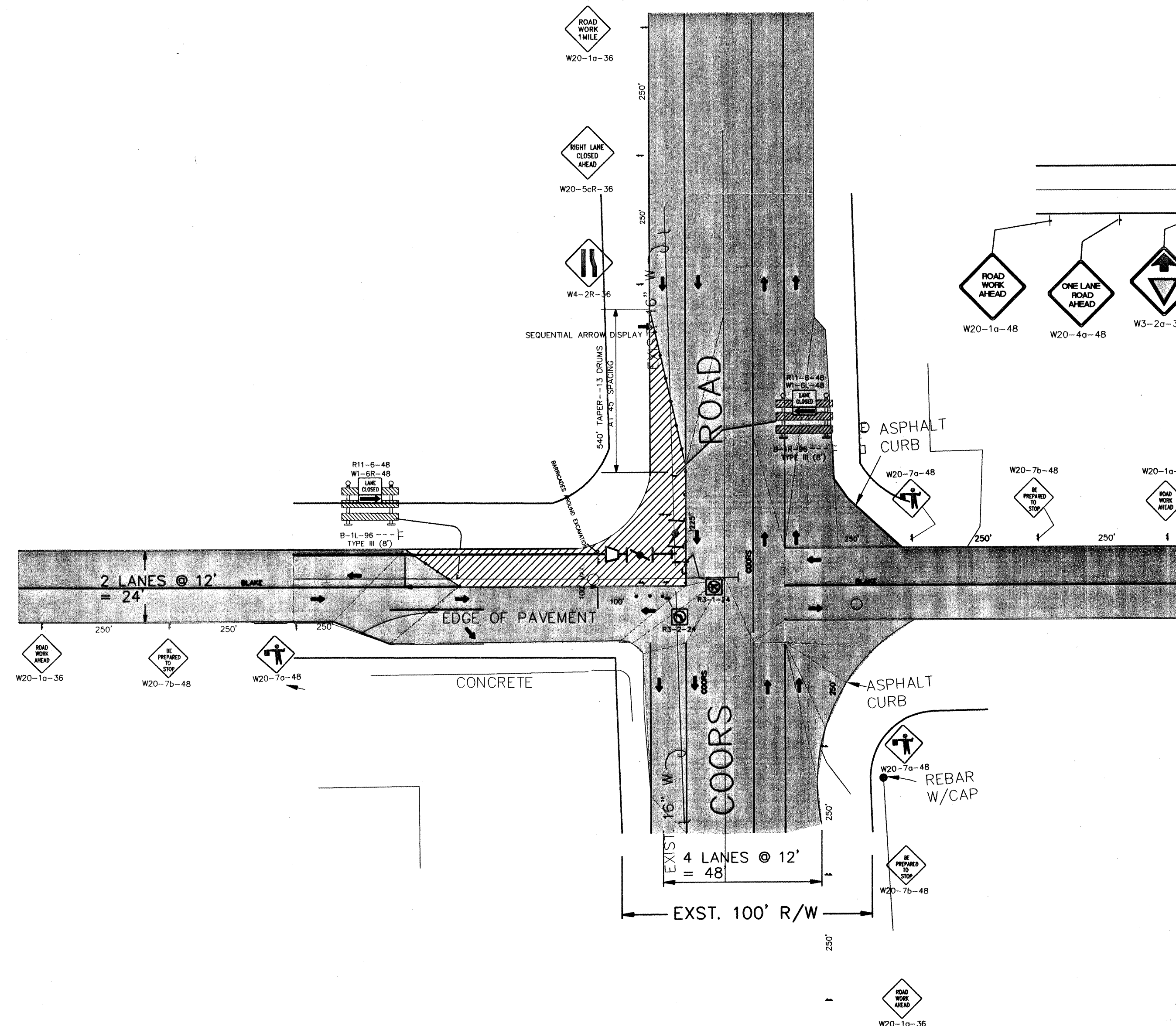
SPEED LIMIT	L =
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
SIGNING/TRAFFIC CONTROL SOUTH VALLEY WATER AND SEWER SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)	
Design Review Committee	City Engineer Approval
Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.
4515.97	N-10
Sheet	17 of 21



SECTION A-A
TEMPORARY WIDENING-TWO-WAY TRAFFIC

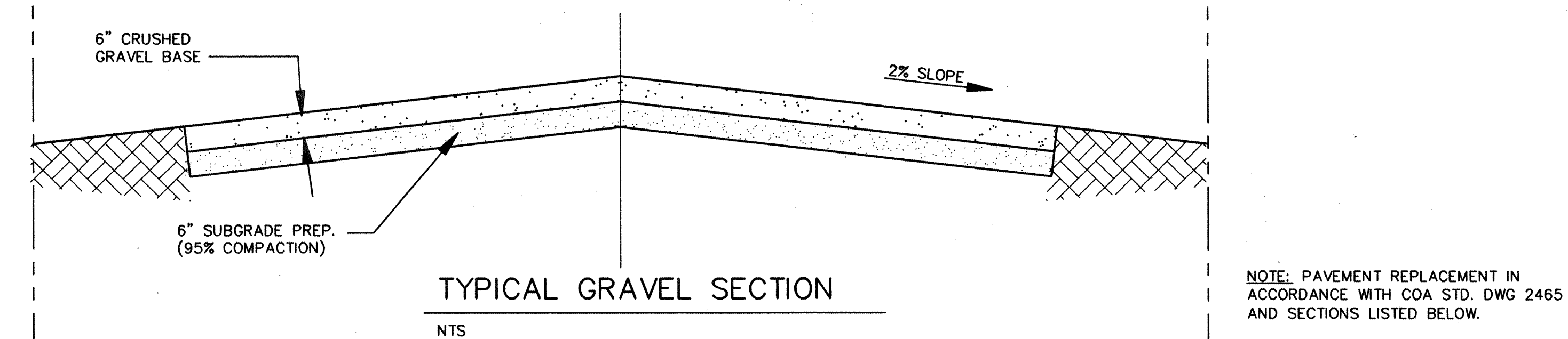
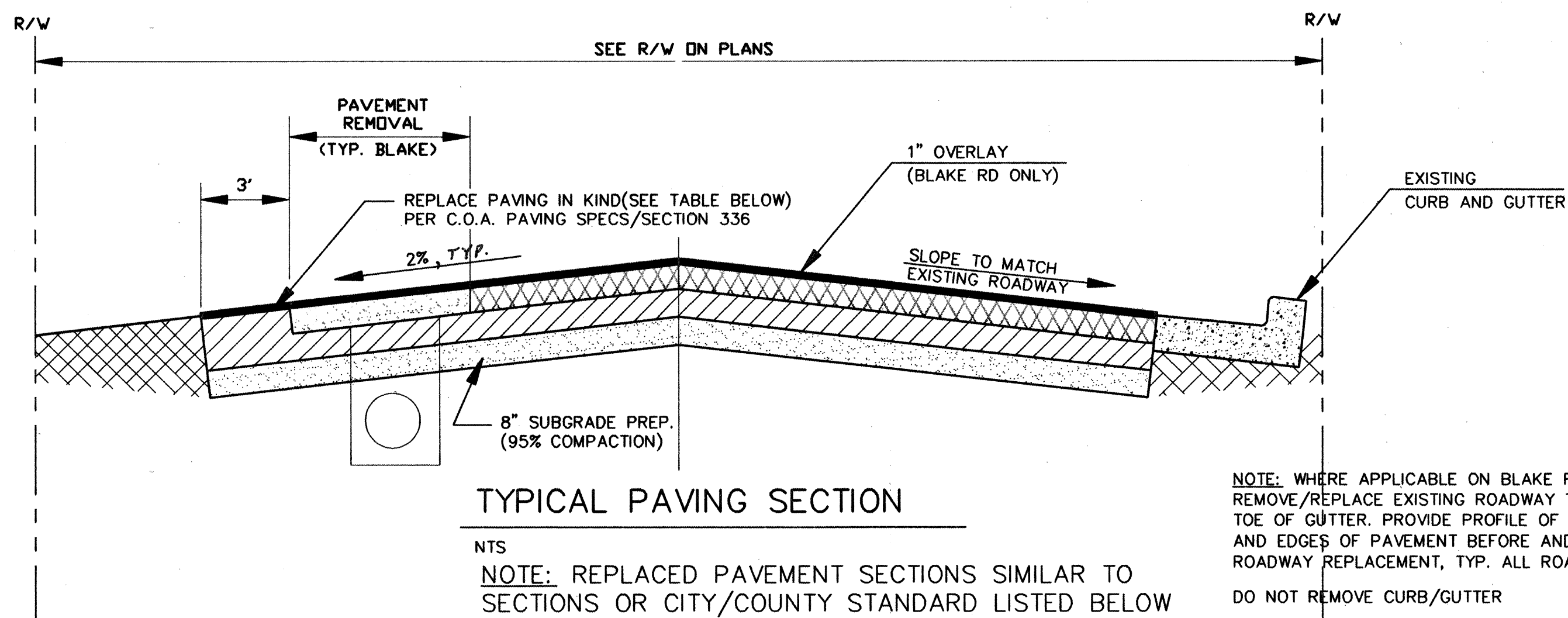
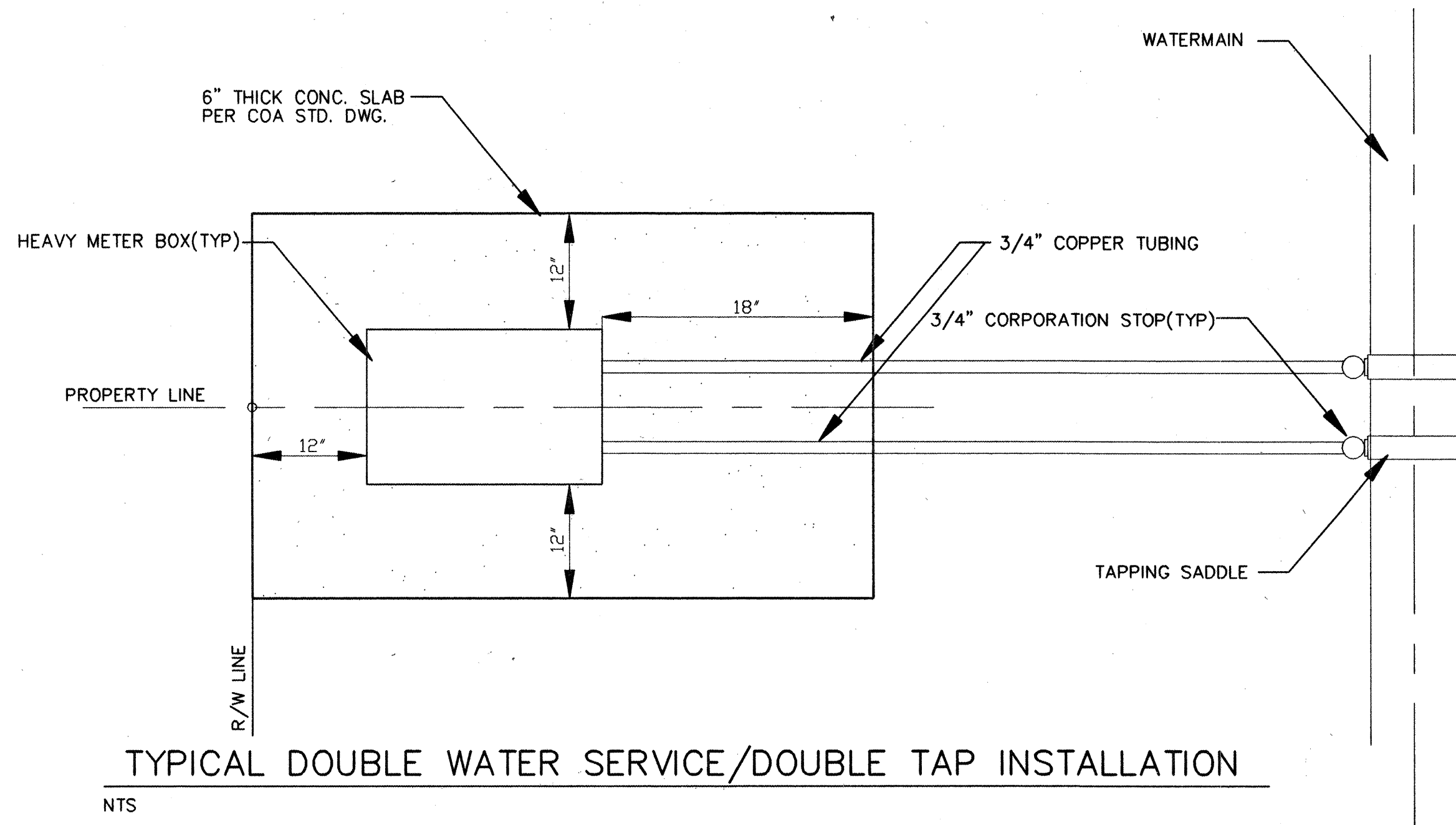


TYPICAL NON-FLAGGED (LOW VOLUME) LANE CLOSURE

		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
				FIELD NOTES				CONTRACTOR <i>Russ Prater Engineering</i>	
				BY DATE		BENCHMARK USED IS A STANDARD ACS BRASS CAP		WORK BY <i>CURT SHEPHERD</i> DATE <i>7/1/99</i>	
				1 SUT, JES, NKG 2/94		STAMPED "NM 45-7A" LOCATED AT THE INTERSECTION OF BLAKE RD AND COORS RD. S.W. ELEV = 4953.487		INSPECTORS ACCEPTANCE BY <i>R. LUCERO</i> DATE <i>7/1/99</i>	
								VERIFICATION BY <i>R.J. PAULETTE</i> DATE <i>7/1/99</i>	
								DRAWINGS CREATED BY <i>PRD</i> DATE <i>7/1/99</i>	
								MICRO-FILM INFORMATION	
								RECORDED BY DATE	
								NO.	

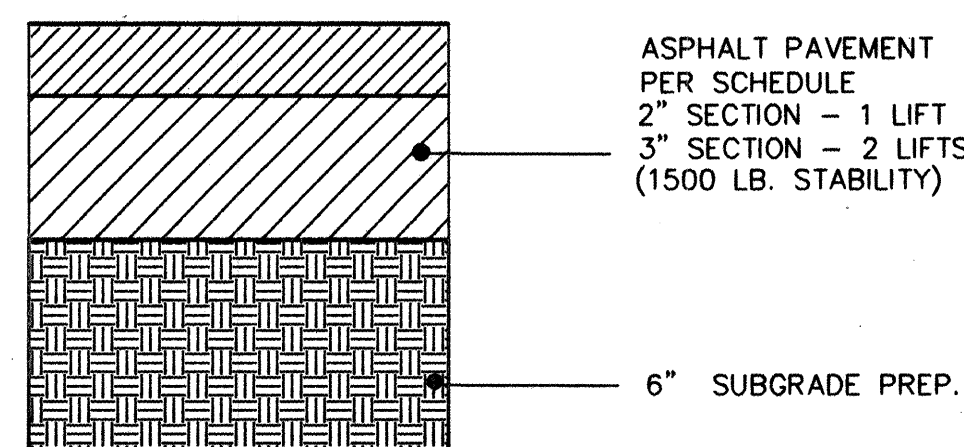
REVISIONS			
WILSON & COMPANY, ENGINEERS & ARCHITECTS			
DESIGNED BY	RJP	DATE	JULY 1997
DRAWN BY	PRD	DATE	JULY 1997

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP											
TRAFFIC CONTROL DETAILS SOUTH VALLEY WATER AND SEWER SYSTEM IMPROVEMENT PROJECT(U-1 AREA,PHASE IIB)											
Design Review Committee 	City Engineer Approval 	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Mo./Day/Yr.</td> <td style="width: 50%; padding: 5px;">Mo./Day/Yr.</td> </tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.						
Mo./Day/Yr.	Mo./Day/Yr.										
City Project No. 1515 97	Zone Map No. N-10 P-10		Sheet 18^{Of} 21								



DESIGN ASSUMPTIONS FOR RESTRAINED PIPE

- TEST PRESSURE = 150 PSI
 - SOIL TYPE = SM (ASTM D2487)
 - TRENCH TYPE = TYPE 4 (ANSI/AWWA C150/A21.50)
 - PIPE COVER = 3' MINIMUM ($\leq 12"$)
4' MINIMUM ($> 12"$)
 - SAFETY FACTOR = 2.00
- SUBMIT CALCULATIONS FOR APPROVAL FOR THRUST RESTRAINT DESIGN FOR CONDITIONS NOT MEETING SIZE, TYPE, OR MATERIALS SHOWN IN THESE DETAILS.



TEMPORARY PAVEMENT SECTION (INCIDENTAL TO TRAFFIC CONTROL)

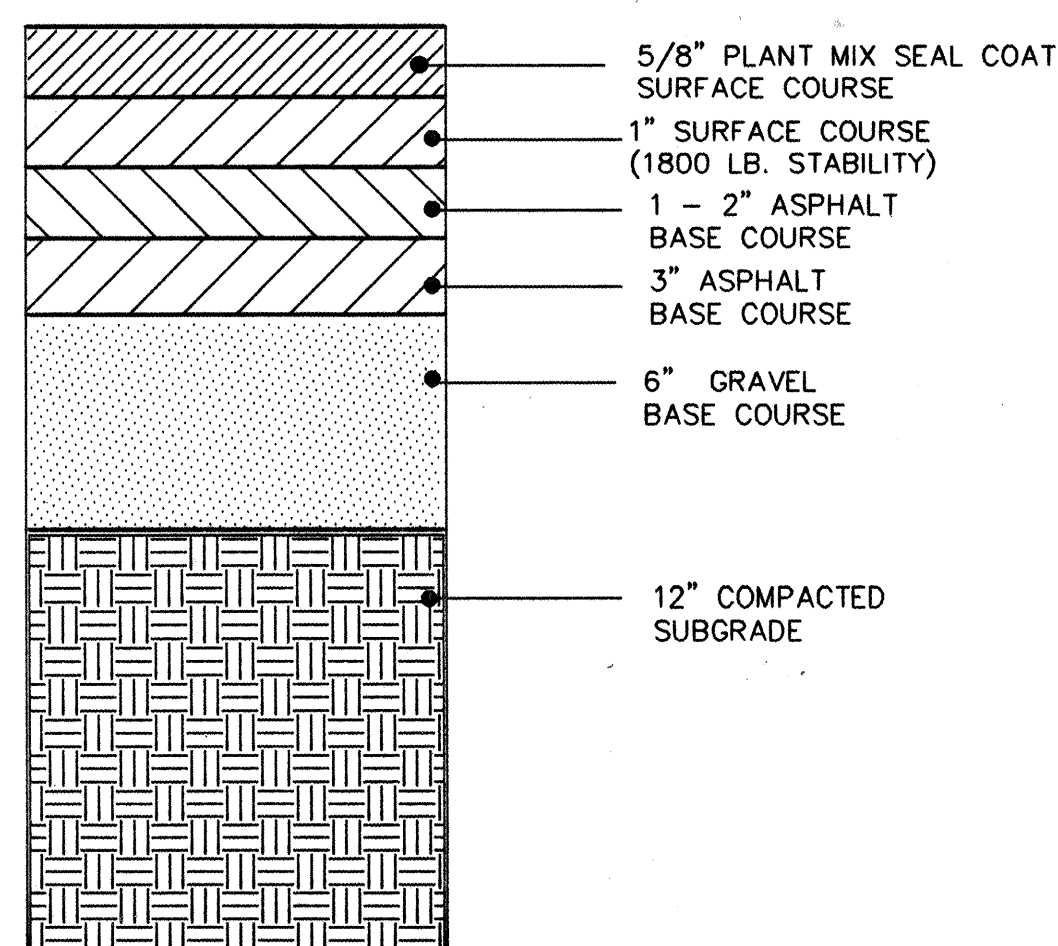
NTS

NOTE: PAVEMENT REMOVAL/REPLACEMENT ON COORS BLVD. PER BERNALILLO COUNTY STANDARD DETAIL 2465

NOTE: ASPHALT THICKNESSES SHOWN BELOW DO NOT INCLUDE OVERLAY WHERE APPROPRIATE

ROADWAY REPLACEMENT SCHEDULE

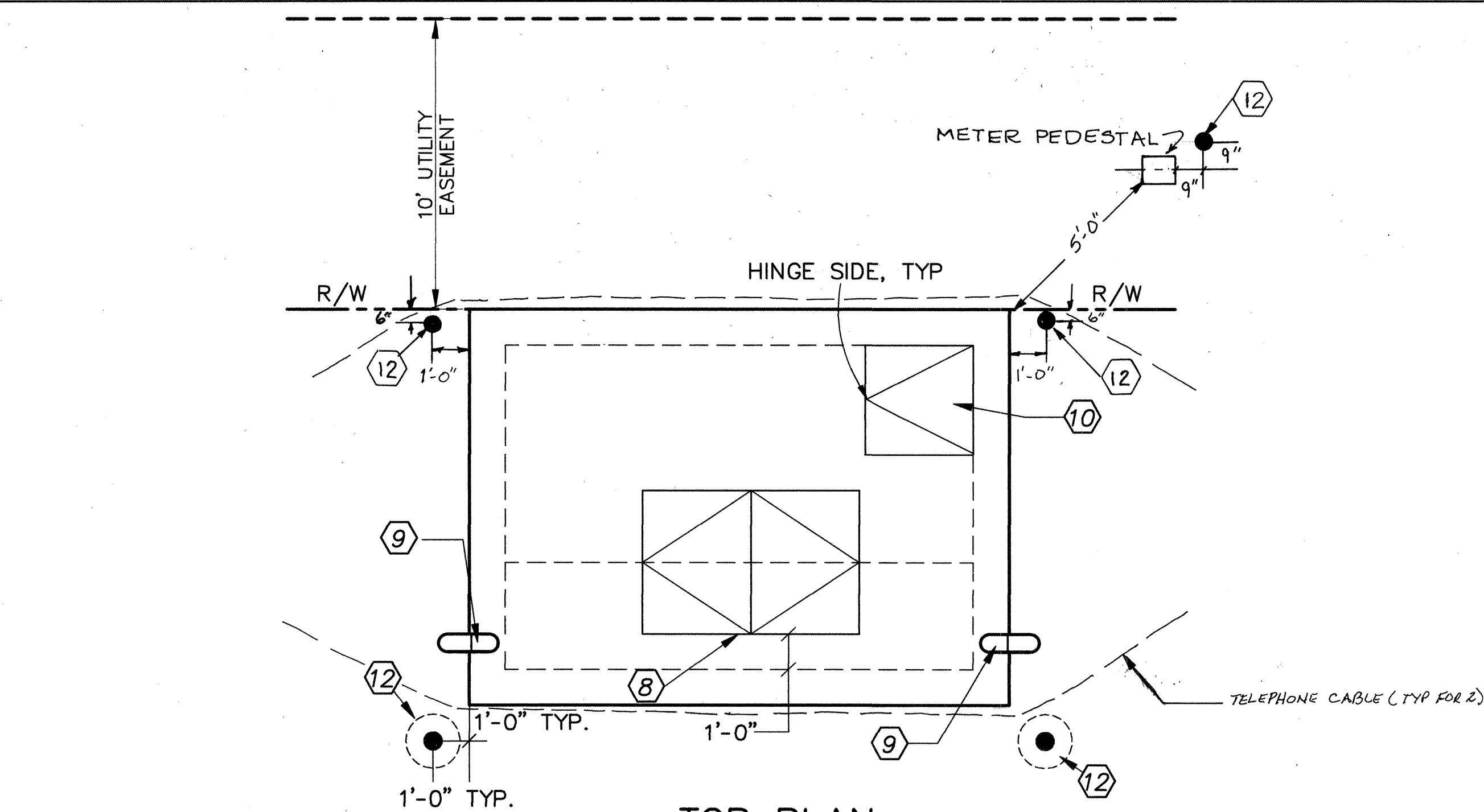
STREET NAME	EXISTING TYPE	EXISTING THICKNESS	EXISTING WIDTH	PAVEMENT SECTION OR PAVING STD.	PAVT. WIDTH REMOVE/REPLACE
BLAKE RD.(STA 10+00 TO 28+32)	PAVED	3" ASPH.	24'	6" CEMENT TREATED BASE 4" ASPHALT CONCRETE SURFACE	24' FULL WIDTH REPLACEMENT & SHOULDERS
BLAKE RD.(STA 28+32 TO 32+00)	PAVED	3" ASPH.	24'	6" GRAVEL BASE 4" ASPHALT	N. 5' OF WESTBOUND LANE (TRENCH) + 1" FULL WIDTH OVERLAY & SHOULDER
BLAKE RD.(STA 32+00 TO 33+00)	PAVED	3" ASPH.	24'	N/A	1" FULL WIDTH OVERLAY (NO TRENCH PAVEMENT REPLACEMENT) & SHOULDER
BLAKE RD.(STA 33+00 TO 37+65)	PAVED	3" ASPH.	24'	6" GRAVEL BASE 4" ASPHALT	N. 5' OF WESTBOUND LANE (TRENCH) + 1" FULL WIDTH OVERLAY & SHOULDER
BLAKE RD.(STA 37+65 TO 46+00)	PAVED	3" ASPH.	24'	6" GRAVEL BASE 4" ASPHALT	N. 5' OF WESTBOUND LANE (OVERLAY BY OTHERS)
BLAKE RD.(STA 54+00 TO COORS)	PAVED	3" ASPH.	24'	6" GRAVEL BASE 4" ASPHALT	N. 5' OF WESTBOUND LANE (OVERLAY BY OTHERS)
JOEL STREET, PLACE & COURT	GRAVEL	3"	24'	6" GRAVEL BASE	24'
WENDELL RD.(SOUTH OF BLAKE)	GRAVEL	3"	24'	6" GRAVEL BASE	24'
BARCELONA PLACE	GRAVEL	3"	24'	6" GRAVEL	24'
ALLEY EAST OF BARCELONA PL.	ASPHALT	3" ASPH.	20'	4" GRAVEL BASE 2" ASPHALT	20'
COORS BLVD.	PAVED ARTERIAL	6" ASPH.	70'	SEE SEC. THIS SHT.	AS REQUIRED
WENDELL RD.(NORTH OF BLAKE)	PAVED RESIDENTIAL	3" ASPH.	24'	COA STD. 2405	24' & SHOULDERS (BY OTHERS)



ARTERIAL PAVING SECTION (COORS RD.)

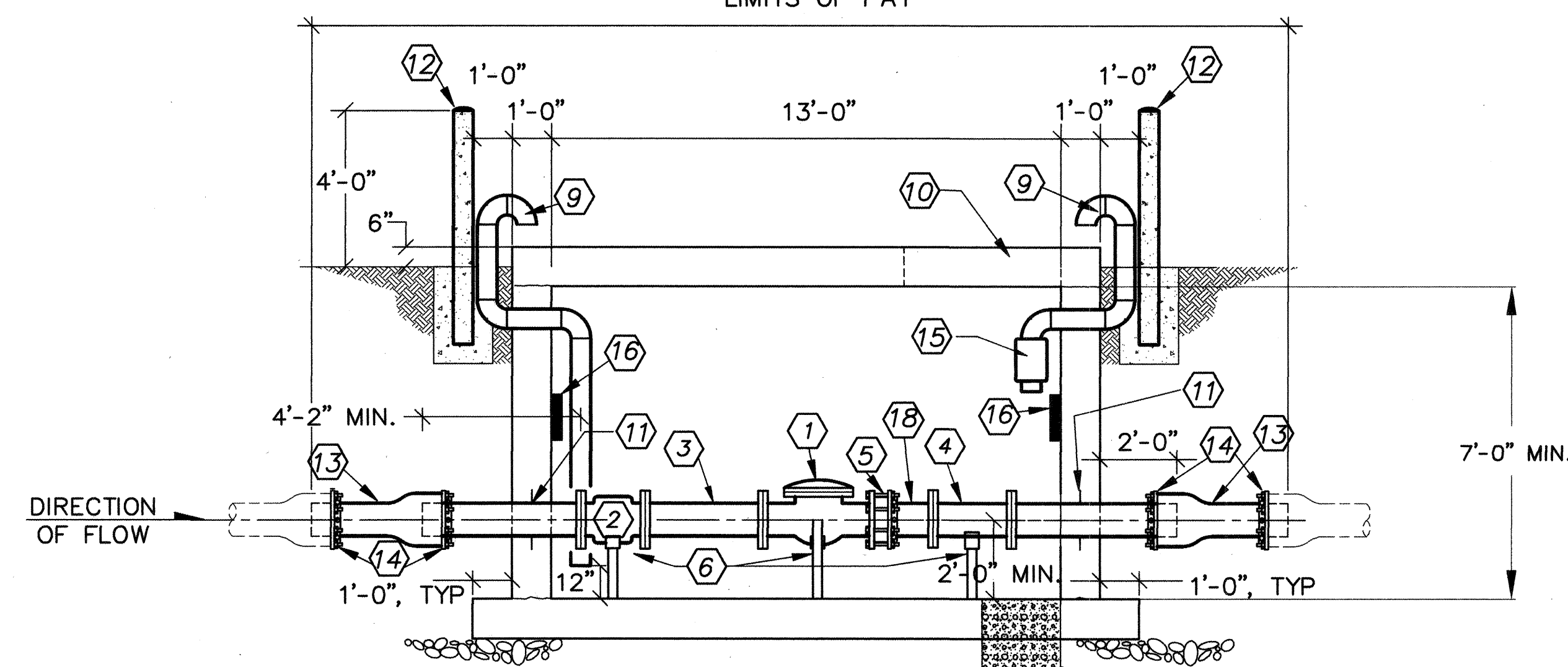
NTS

AS-BUILT INFORMATION CONTRACTOR: Ross Pinyan Engineering DRAWN BY: Curt Sheehey CHECKED BY: R. Lucero DATE: 7/1/99 VERIFIED BY: R. Lucero DATE: 7/1/99 MICRO-FILM INFORMATION RECORDED BY: PRD DATE: 7/1/99	
BENCH MARKS BENCHMARK USED IS A STANDARD ACS BRASS CAP STAMPED "ACS 45-7A, 1976" LOCATED 42.3' WEST OF THE INTERSECTION OF S. COORS RD. & BLAKE RD., S.W. ELEV. +4953.487 TBM #1 = PANT SPOT AT TOP OF CURB @ S. CURB - END OF CURB ON EDUARDO RD., S.W. ELEV. +4969.27 TBM #2 = NE CORNER CONC. FENCE POST @ 3930 EDUARDO RD., S.W. ELEV. +4984.57	
SURVEY INFORMATION FIELD NOTES NO. _____ DATE _____ BY _____	
ENGINEER'S SEAL 	
REMARKS NO. _____ DATE _____ BY _____ WILSON & COMPANY, ENGINEERS & ARCHITECTS DESIGNED BY: RJP DRAWN BY: DLS DATE: MAY, 1997 CHECKED BY: _____ DATE: _____	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP CONSTRUCTION DETAILS SOUTH VALLEY WATER AND SEWER SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIB) Design Review Committee: APPROVED City Engineer Approval: APPROVED City Project No.: 4515.97 Zone Map No.: N-10,P-10 Sheet 19 of 21	



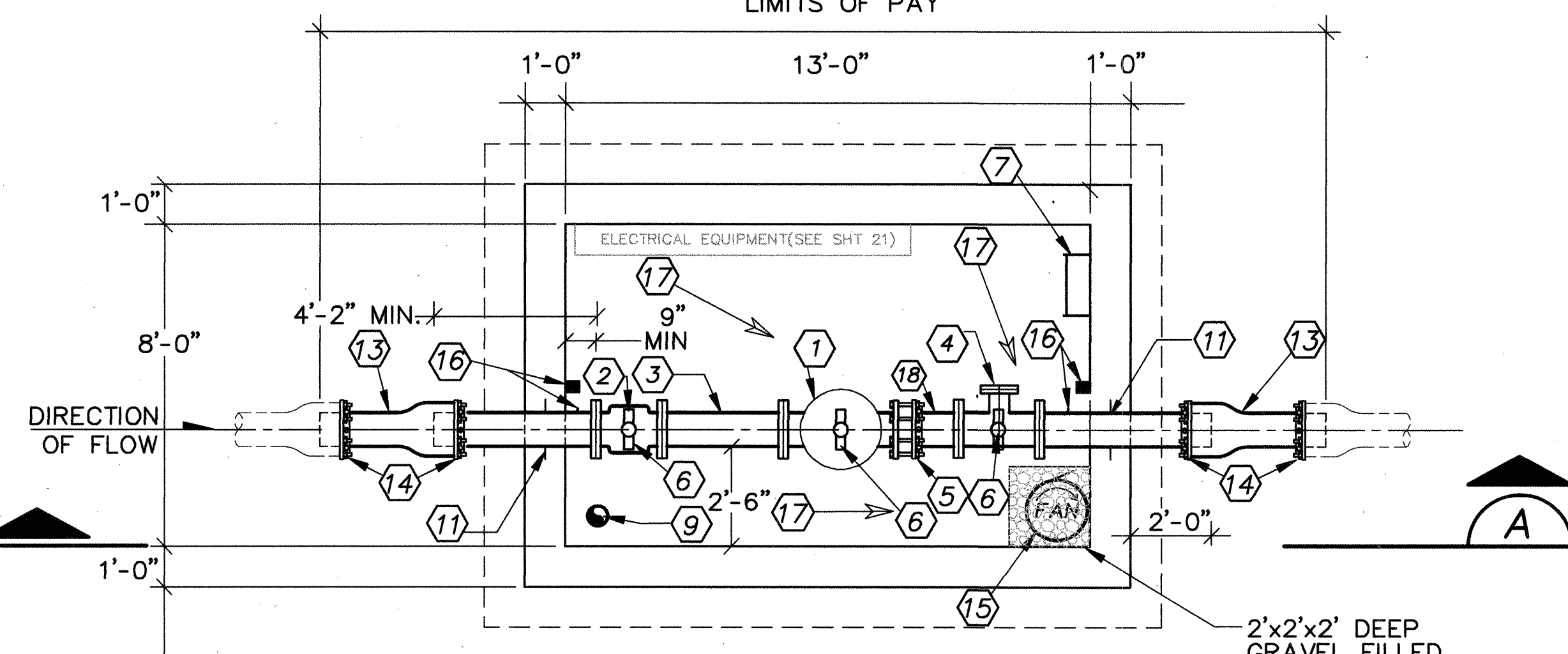
TOP PLAN

LIMITS OF PAY



SECTION A

LIMITS OF PAY



INTERIOR PLAN

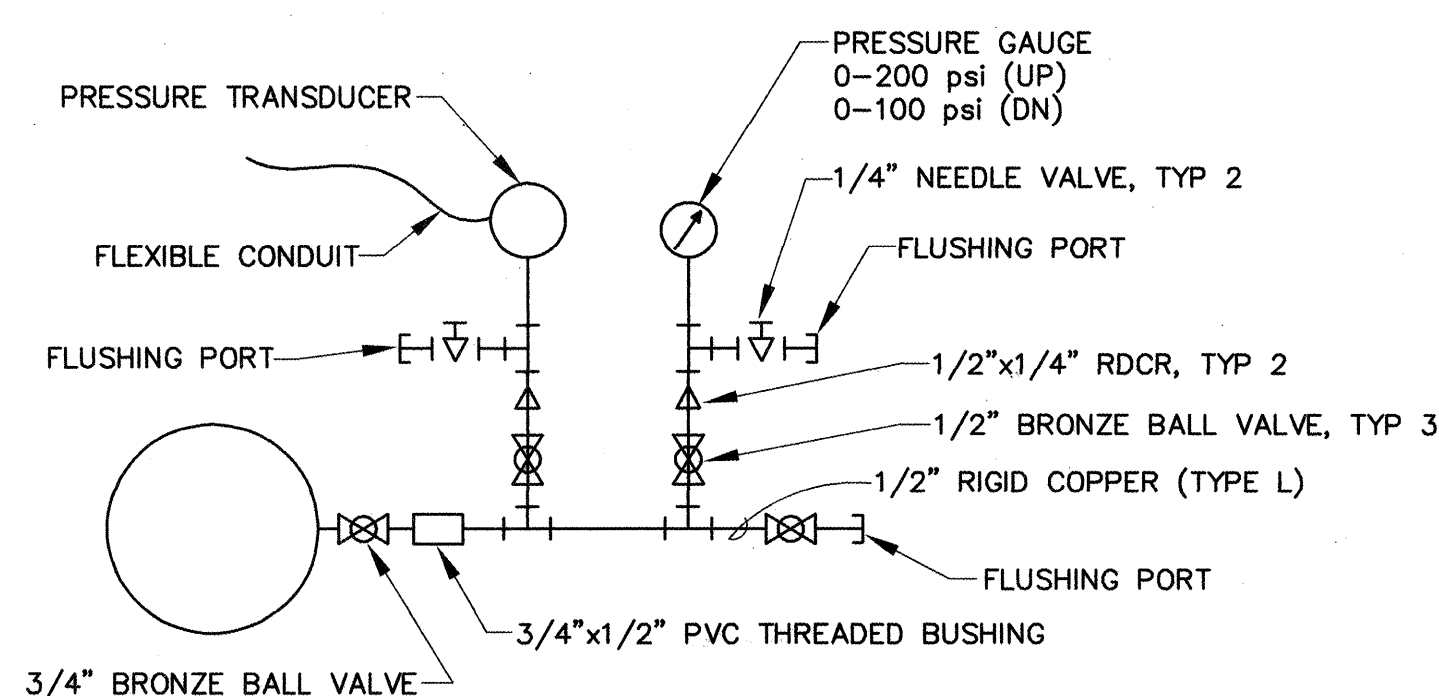
PRV W/METER VAULT
DETAILS

GENERAL NOTES:

- FOR STRUCTURAL DETAILS AND REINFORCING SEE STANDARD PRV STATION STRUCTURAL DETAILS DWG. 2357.
- SEE STANDARD PRV STATION, NO METER DWG. 2354 FOR ADDITIONAL CONSTRUCTION NOTES.

KEYED NOTES:

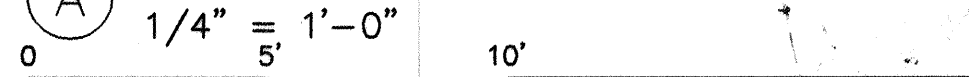
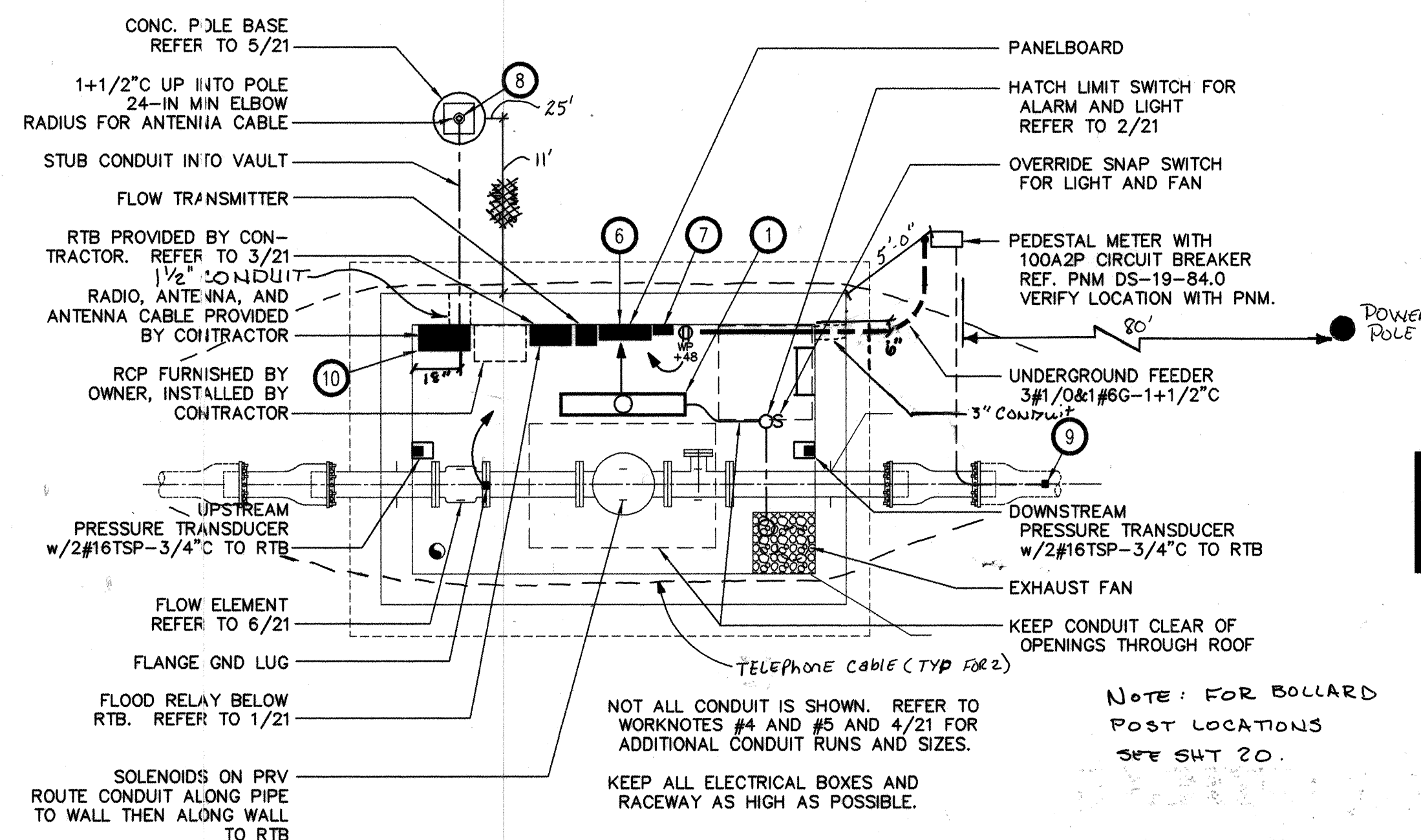
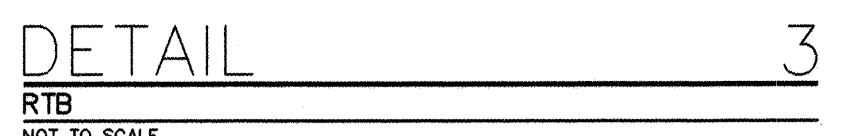
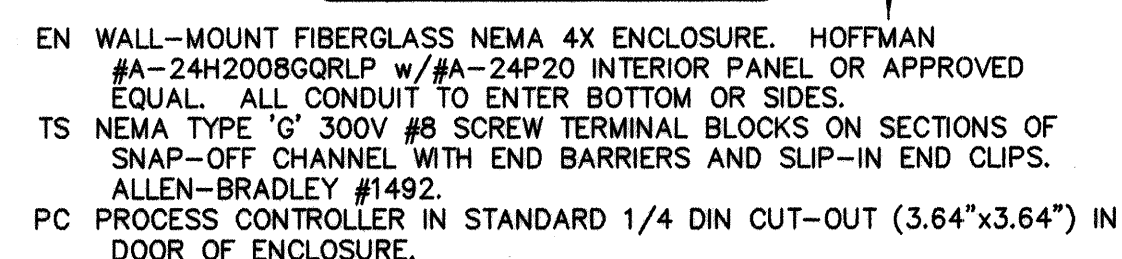
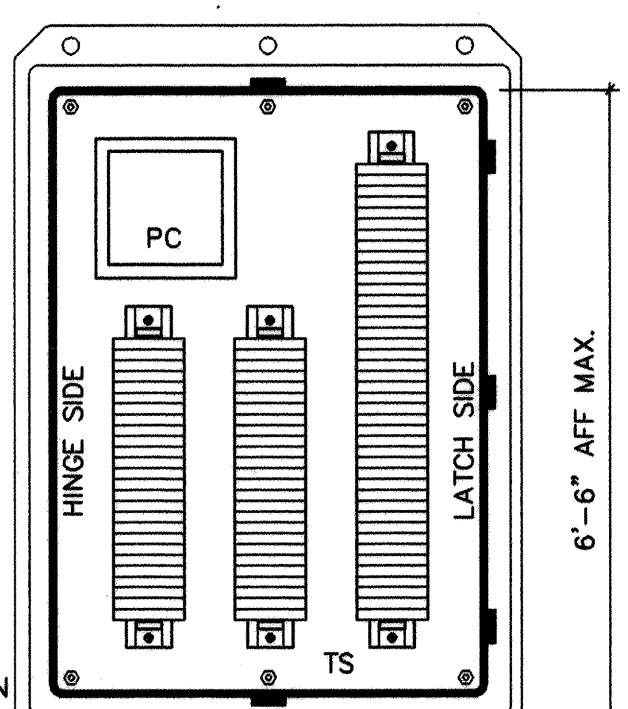
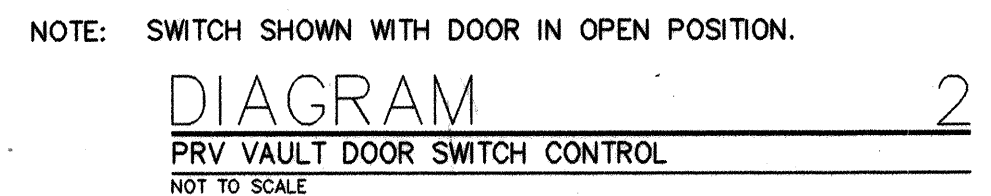
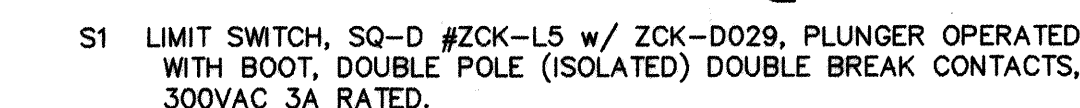
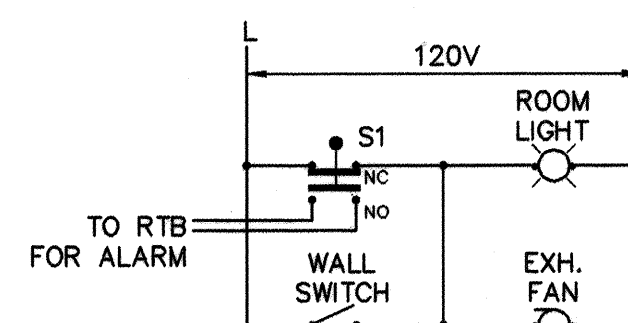
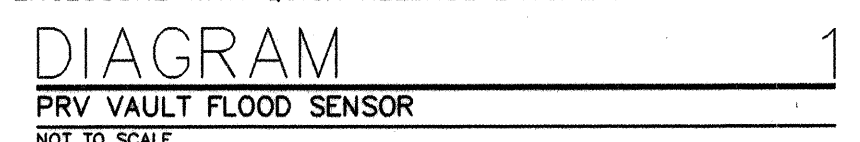
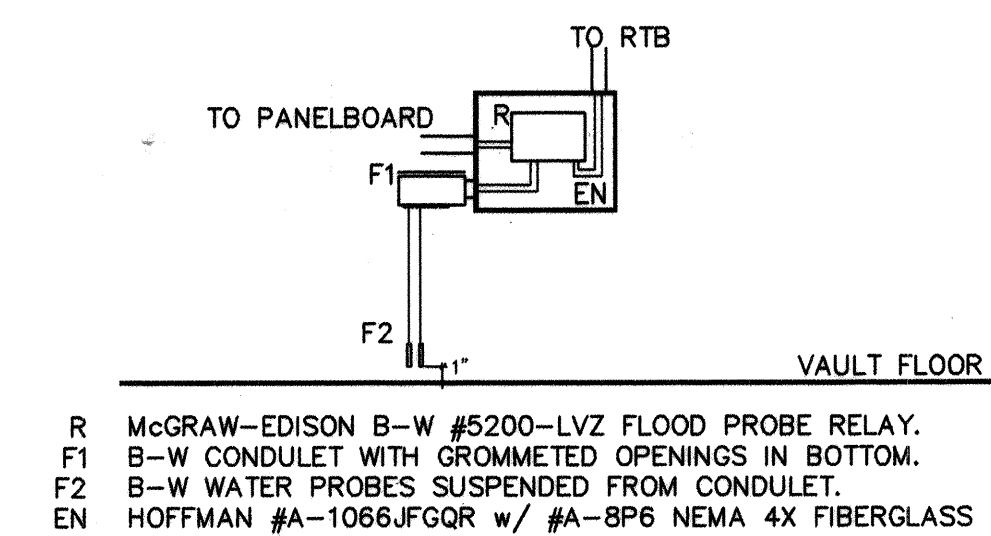
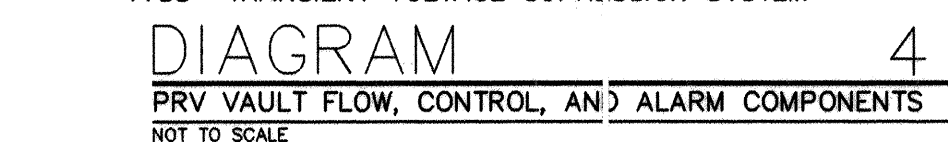
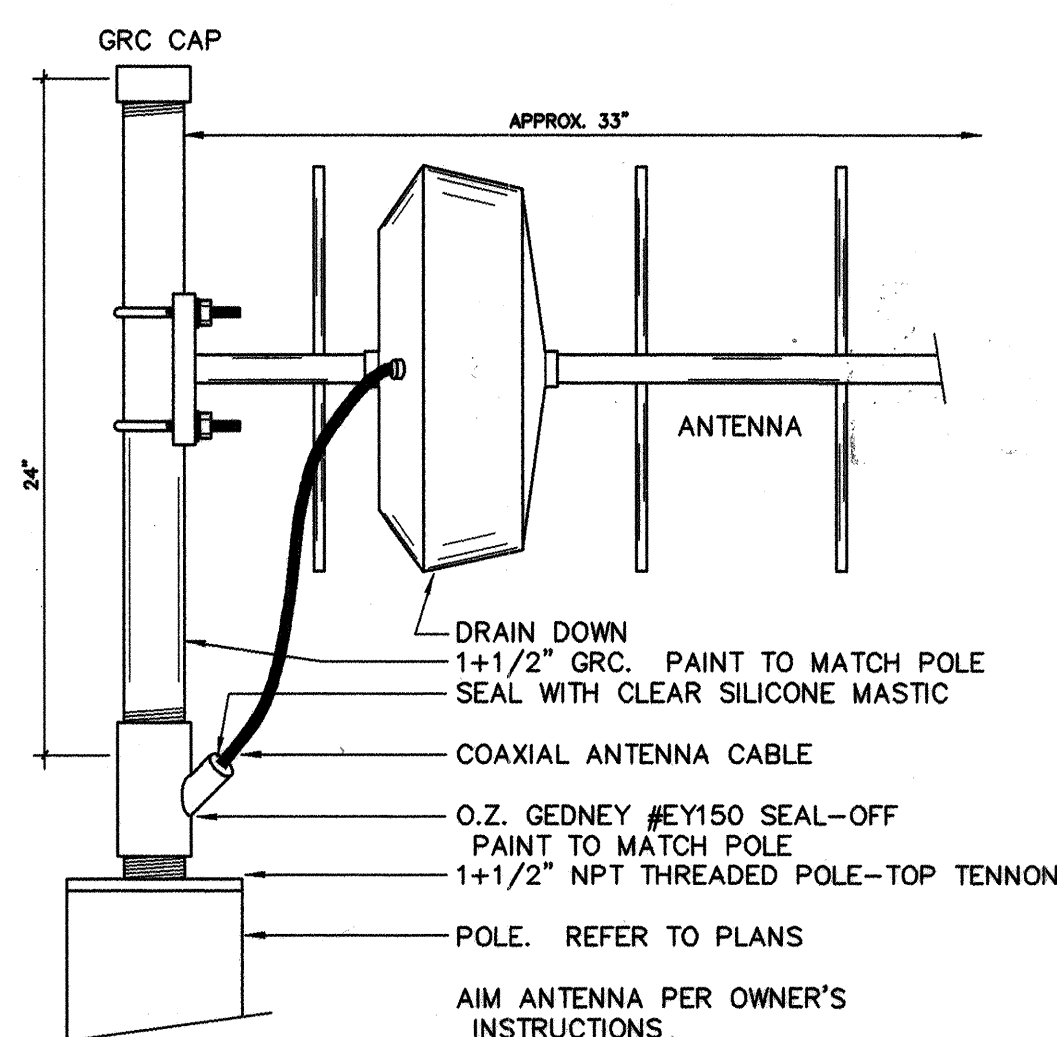
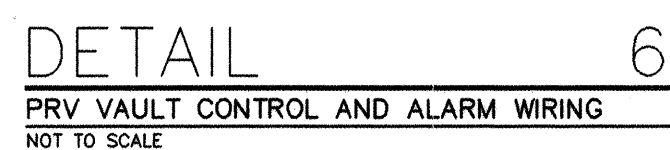
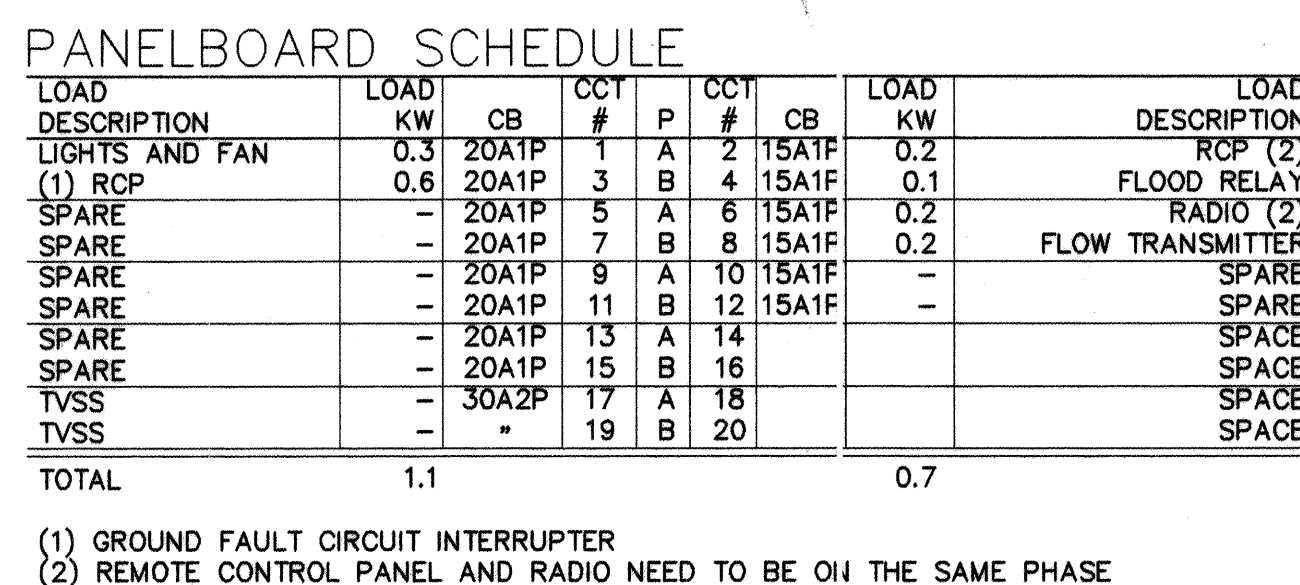
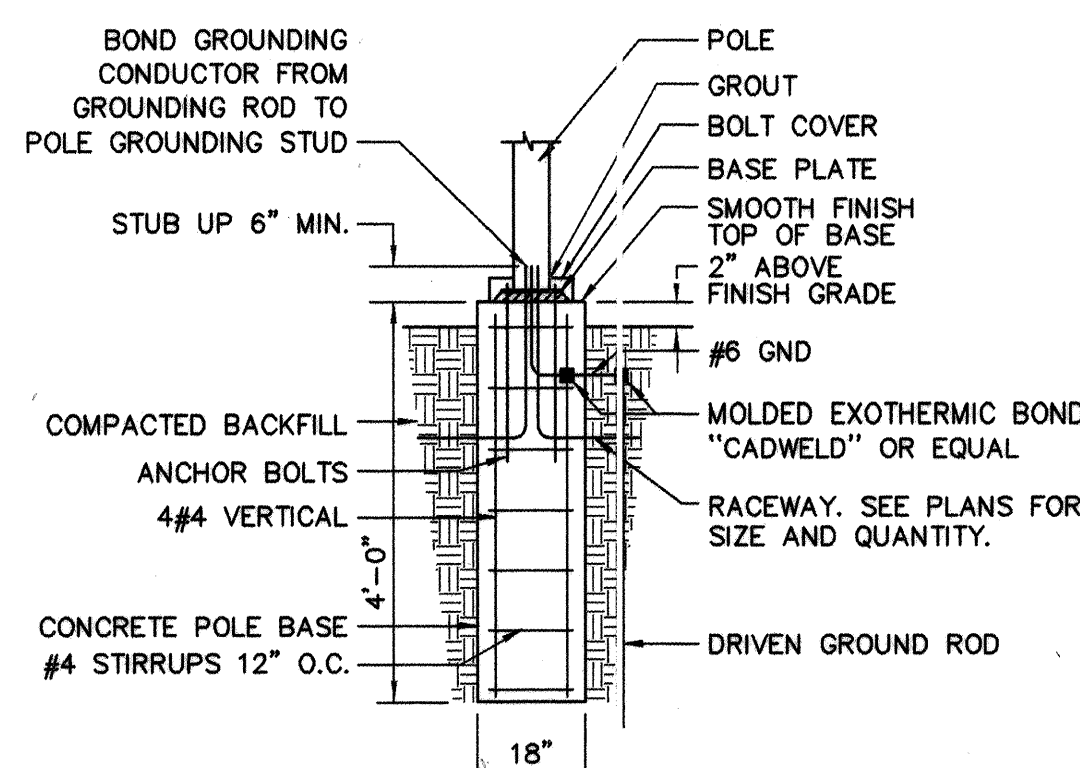
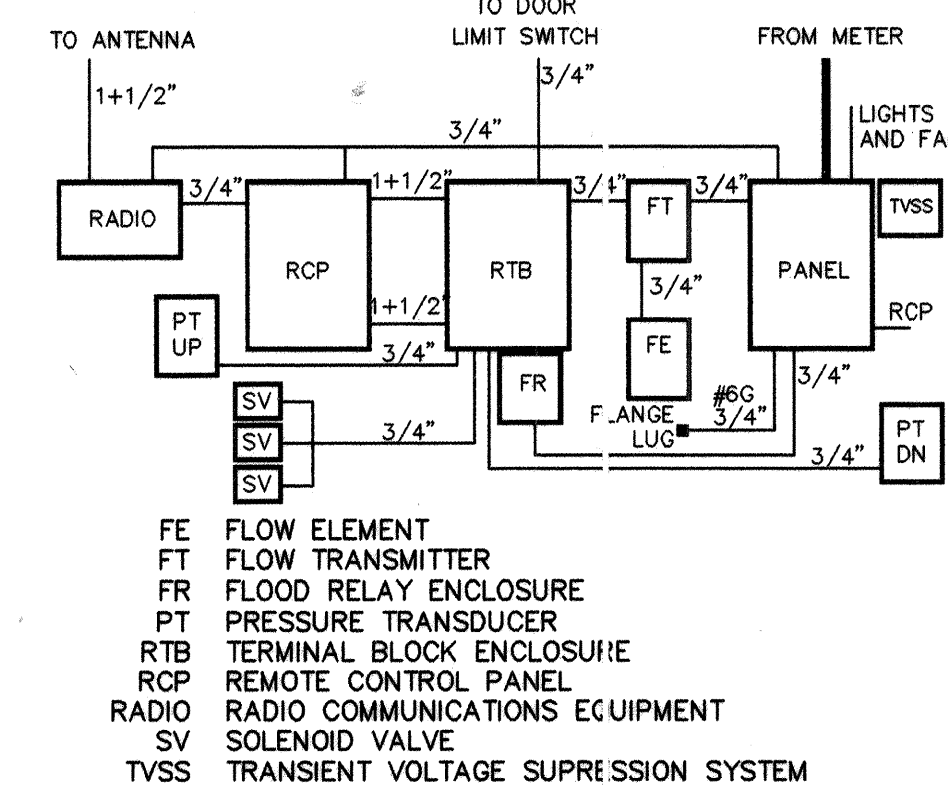
- 10" PRESSURE REDUCING VALVE, AS SPECIFIED BELOW
Clayton 690 Series, pressure reducing from 120-90 psi to 60-40 psi
Opening and Closing speed control
131VC pressure controller for remote monitoring and set point control
- MAGNETIC FLOW METER, KROHNE IFS4000 SERIES W/HARD RUBBER LINER AND 316 SS ELECTRODES, W/ REMOTE WALL MOUNTED CONVERTER, KROHNE IFC110 SERIES
- 10" SPOOL (FLxFL), LENGTH = 3'-0"
- 10" x 6" TEE, FLxFL W/BLIND FLANGE
- MEGAFLANGE FLANGE ADAPTER, SERIES 2100
- ADJUSTABLE PIPE SADDLE SUPPORT, GRINNELL FIG. 264, ELCEN FIG. 50 OR EQUAL
- 1'-6" WIDE ALUMINUM LADDER W/LADDER UP SAFETY POST OFFSET TO ONE SIDE OF LADDER.
- ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. DOOR SIZE SHALL BE 4'x6' DOUBLE LEAF. HARDWARE AND HINGES SHALL BE TYPE 304 STAINLESS STEEL. BILCO, HALLIDAY, OR EQUAL.
- 6" STEEL PIPE W/GOOSENECK AND 1/8" INSECT SCREEN. SEAL AROUND PIPE AT VAULT WALL.
- 3'-0" SQ ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. HARDWARE AND HINGES SHALL BE TYPE 304 STAINLESS STEEL. BILCO TYPE J, HALLIDAY, OR EQUAL.
- WALL PIPE WITH THRUST COLLAR, CENTER IN WALL
- 6" DIA. STEEL BOLLARD FILLED W/CONCRETE. PAINT BRIGHT YELLOW.
- 10" SPOOL (BELLxPE), LENGTH = 2'-0"
- COVERALL, EBAA IRON SERIES 800
- INLINE EXHAUST FAN W/ SWITCH AND ACCESS DOOR CONTROLS. GREENHECK, MODEL SP-12, OR EQUAL.
- HONEYWELL SMART GAUGE PRESSURE TRANSMITTER, 0-20 PSI TO 0-500 PSI, STG944-EIG-000-MB,SM,LP, FID3.
- SLOPE FLOOR TO DRAIN TO GRAVEL SUMP IN DIRECTION SHOWN.
- 10" SPOOL (FLxPE), LENGTH = 1'-0"



PRESSURE TRANSDUCER CONNECTION

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE - Suite 200
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: BLAKE ROAD SOUTH VALLEY WATER AND SEWER IMPROVEMENTS PROJECT PRV STATION DETAILS			
DESIGN REVIEW COMMITTEE APPROVE JUL 1 1998	CITY ENGINEER APPROVAL APPROVE JUL 1 1998	MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER	DESIGNED BY	DATE
City Project No. 4515.97	Zone Map No. N-10-Z	DRAWN BY	DATE
		CHECKED BY	DATE
Sheet 20		Of 21	



THESE NOTES APPLY ONLY TO THIS DRAWING.
SOME NOTES MAY NOT BE USED ON THIS DRAWING.

1. PROVIDE ENCLOSED AND GASKETED WET LOCATION LISTED FLUORESCENT LUMINAIRE WITH 2-F32TARS LAMPS AND 120V ELECTRONIC BALLAST. LITHONIA #DWX2332120 OR APPROVED EQUAL. SURFACE MOUNT TO UNDERSIDE OF VAULT LID. ALL CONDUIT EXPOSED.
2. ALL SHIELDED CONDUCTOR PAIRS TO BE #18 TWISTED UNLESS NOTED OTHERWISE.
3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12 THWN UNLESS OTHERWISE INDICATED.
4. MINIMUM CONDUIT APPROXIMATELY 1/2" DIA.
5. ALL CONDUIT SHALL BE PVC OR LIQUID-TIGHT NON-METALIC FLEX. ALL JUNCTION AND OUTLET BOXES SHALL BE PVC OR FIBERGLASS.
6. PROVIDE SURFACE MOUNT BRANCH CIRCUIT PANELEBOARD, NEMA 12 ENCLOSURE, 120/240-VOLT, 1P-3W+G, 100-AMP TIN-PLATED COPPER BUS, MLO TOP, BOLT-ON BRANCH CIRCUIT BREAKERS, 10-KAIC, COUPLED EQUIPMENT GROUND BUS, 26"x 20"x 7"D MAX. SQ-D #900D APPROXIMATELY 1/2" DIA.
7. PROVIDE 120/240V-1P TRANSIENT VOLTAGE SUPPRESSION SYSTEM IN NEMA 12 ENCLOSURE WITH 75,000-AMP CAPACITY. EPI "OMNI-PHASE" #OSE120/240EF-WT OR APPROVED EQUAL. MOUNT DIRECTLY BELOW THE PANELEBOARD ENCLOSURE.
8. PROVIDE 20-FT ROUND TAPERED ALUMINUM POLE WITH 0.156" THICK WALL, BLACK PAINTED FINISH, BOLT COVER, GALVANIZED ANCHOR BOLTS, HAND-HOLE, GROUNDING STUD, 1/4"-1/2" NET THREADED TOP TENON. MINIMUM EPA 6.0 AT 80-MPH.
9. BOND #6G TO EEL PIPE WITH EXOTHERMIC WELD.
10. PROVIDE ENCLOSED MOTOROLA "DARCOM HR2" RADIO MODEL #27251 WITH THE FOLLOWING OPTIONS: #V013 ANALOG, #V176 POWER SUPPLY, #V276 LOCKING NEMA HOUSING, #V372 10-AH BATTERY, #V806 WIDE IF (9600 BAUD), #HMN3141 MAINTENANCE HANDESET, AND #HRN1921 HANDESET ASSEMBLY. PROVIDE ANDREW HELIAX COAXIAL CABLE TYPE LDF-50A, 50-OHM, 100'-LONG, #174/S55 35853, 09090 CONNECTERS, AND CONNECTORS FROM RADIO TO ANTENNA. PROVIDE SELLWAVE MODEL #10108-2 RADIO ANTENNA, 880-960 MHz. CONTACT INDUSTRIAL ELECTRIC AUTOMATION, INC., ALBUQUERQUE, NM 505-242-9913.

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AHU-1

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EQUIPMENT IDENTIFIER

WORK NOTE IDENTIFIER

BRANCH CIRCUIT PANELBOARD
TELEPHONE TERMINAL OR EQUIPMENT BOARD
CONCEALED CIRCUIT RACEWAY
FLEXIBLE CONDUIT
EXPOSED CONDUIT
CONCEALED CIRCUIT RACEWAY UNDERGROUND
OR IN FLOOR SLABS

EXISTING CIRCUIT RACEWAY
RACEWAY DROP (DOWN)
RACEWAY RISE (UP)

JUNCTION BOX
EMERGENCY CIRCUIT JUNCTION BOX
CIRCUIT HUMERUS

GROUND CONDUCTOR
NEUTRAL CONDUCTOR
PHASE CONDUCTOR

WALL MTD DUPLEX RCP
WALL MTD DOUBLE DUPLEX RCP
WALL MTD RCP AS NOTED
WALL MTD TELE./DATA OUTLET
WALL MTD SNAP SWITCH
KEYS: 2 TWO-POLE
3 THREE-WAY
K KEY OPERATED
P PILOT LIGHT
T MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
D WALL BOX DIMMER

TROFFER - REFER TO LUMINAIRE SCHEDULE
SWITCH LEG
LAMP ORIENTATION WHEN SHOWN
LUMINAIRE SCHEDULE KEY

Ceiling Surface or Pendant MTD FLU

CHANNEL MTD FLUORESCENT LUMINAIRE

WALL SURFACE MTD FLUORESCENT LUMINAIRE

Ceiling RECESSED LUMINAIRE

Ceiling SURFACE MTD LUMINAIRE

WALL SURFACE MTD LUMINAIRE

Ceiling MTD EXIT LUMINAIRE

WALL MTD EXIT LUMINAIRE

SHADING INDICATES FACE ARROW SYMBOLS
SHADING INDICATES ONE BALLAST UNSWITCHABLE

DISCONNECT SWITCH - NON-FUSED
DISCONNECT SWITCH - FUSED
MAGNETIC MOTOR STARTER (CONTROLLER)
COMB. DISCONNECT AND MAG STARTER
LIGHTING CONTACTOR

GREER
STAFFORD
SJCF

ARCHITECTURE 6020 ACADEMY NE, SUITE 205
ALBUQUERQUE, NM 87109-3315
ENGINEERING 505.821.0235 FAX 505.821.0348

P L A N N I N G

INTERIOR DESIGN 3005 NORTHEDGE DR., SUITE C
FARMINGTON, NM 87402-2085
505.325.7475 FAX 505.325.6464

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Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT TRANSPORTATION DEVELOPMENT	
TITLE:	BLAKE ROAD SOUTH VALLEY WATER AND SEWER IMPROVEMENTS PROJECT PRV STATION ELECTRICAL

DESIGN REVIEW COMMITTEE APPROVE JUL - 1 1998 DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL APPROVE JUL - 1 1998 CITY ENGINEER		MO./DAY/YR. 		MO./DAY/YR. 	
City Project No. 4515.97		Zone Map No. N-10-Z		Sheet 21		Of 2	