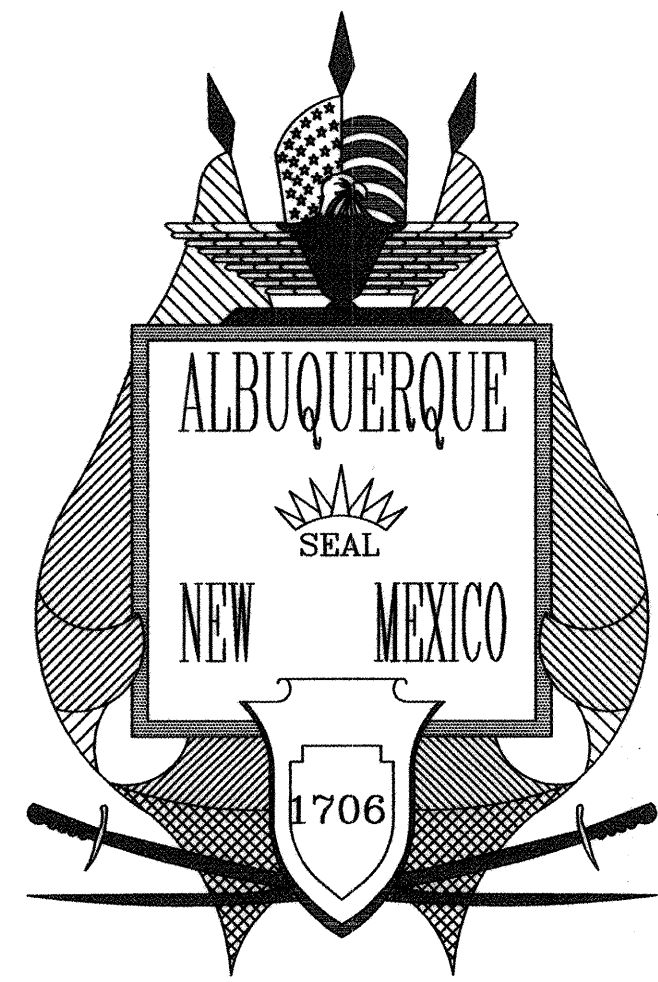


SCANNED
BY PLM

GENERAL NOTES:

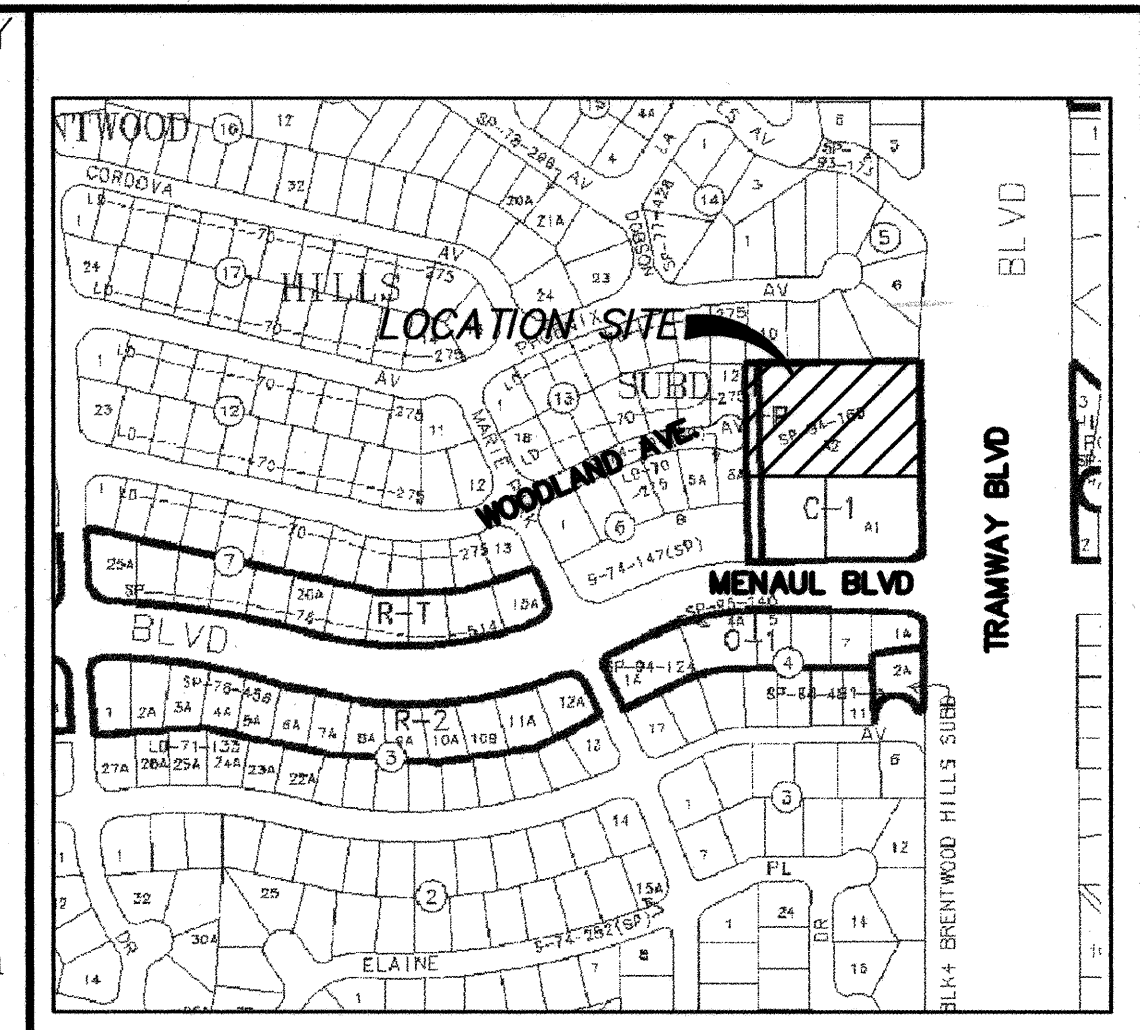
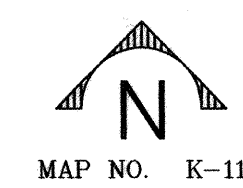
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION WITH UPDATE NO. 7 AS AMENDED.
2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
5. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 7.
6. THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
7. TRAFFIC CONTROL: FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) 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 SHOWN IN THIS PLAN SET.
8. WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
9. EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
10. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 90% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
11. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
12. PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
13. ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING.
14. ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
15. CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWERLINE COSTS.
16. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE 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 OWN 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.
18. PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
19. WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE AREA SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
20. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HR. CONSTRUCTION.
21. ALL EXCAVATION TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
22. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
23. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

CITY OF ALBUQUERQUE PLANS FOR CONSTRUCTION



2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-76811.811 06 1

VICINITY
MAP



ZONE ATLAS MAP H-22-Z

RECORD DRAWINGS

I, PATRICK J. CONLEY of the firm of Smith Engineering Company, a Registered Professional Engineer in the State of New Mexico, do hereby state that, to the best of my knowledge and belief, the infrastructure for this project as shown on the plans has been constructed in general accordance with the project plans and in general accordance with the City of Albuquerque Standard Specifications for Public Works Construction (including all updates), and that the general intent of the plans has been met except as noted on the as-built construction drawings. The infrastructure construction has been observed by a qualified person from Smith Engineering Company and this statement covers infrastructure installation that was observed by Smith Engineering Company personnel and on as-built information provided to Smith Engineering Company.
Russ Hugg (surveyor's name), NMPS number 9750 (PS #).



TRAMWAY CROSSING SUBDIVISION

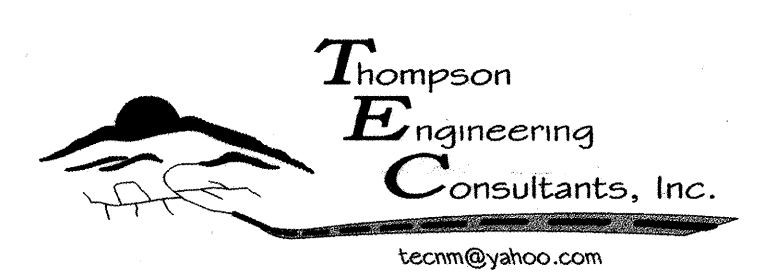
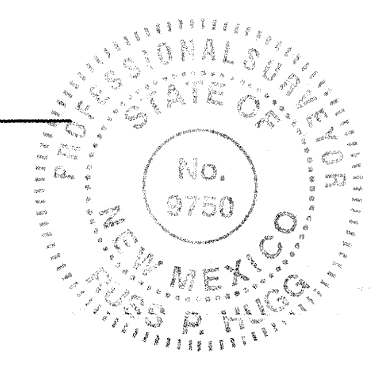
INDEX OF SHEETS

- | | |
|---|--------------------------|
| 1 | TITLE SHEET |
| 2 | PLAT |
| 3 | GRADING PLAN |
| 4 | DETAILS |
| 5 | PAVING PLAN AND PROFILE |
| 6 | UTILITY PLAN AND PROFILE |

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, Hereby Certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
6/7/06



P.O. BOX 65760
ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9425

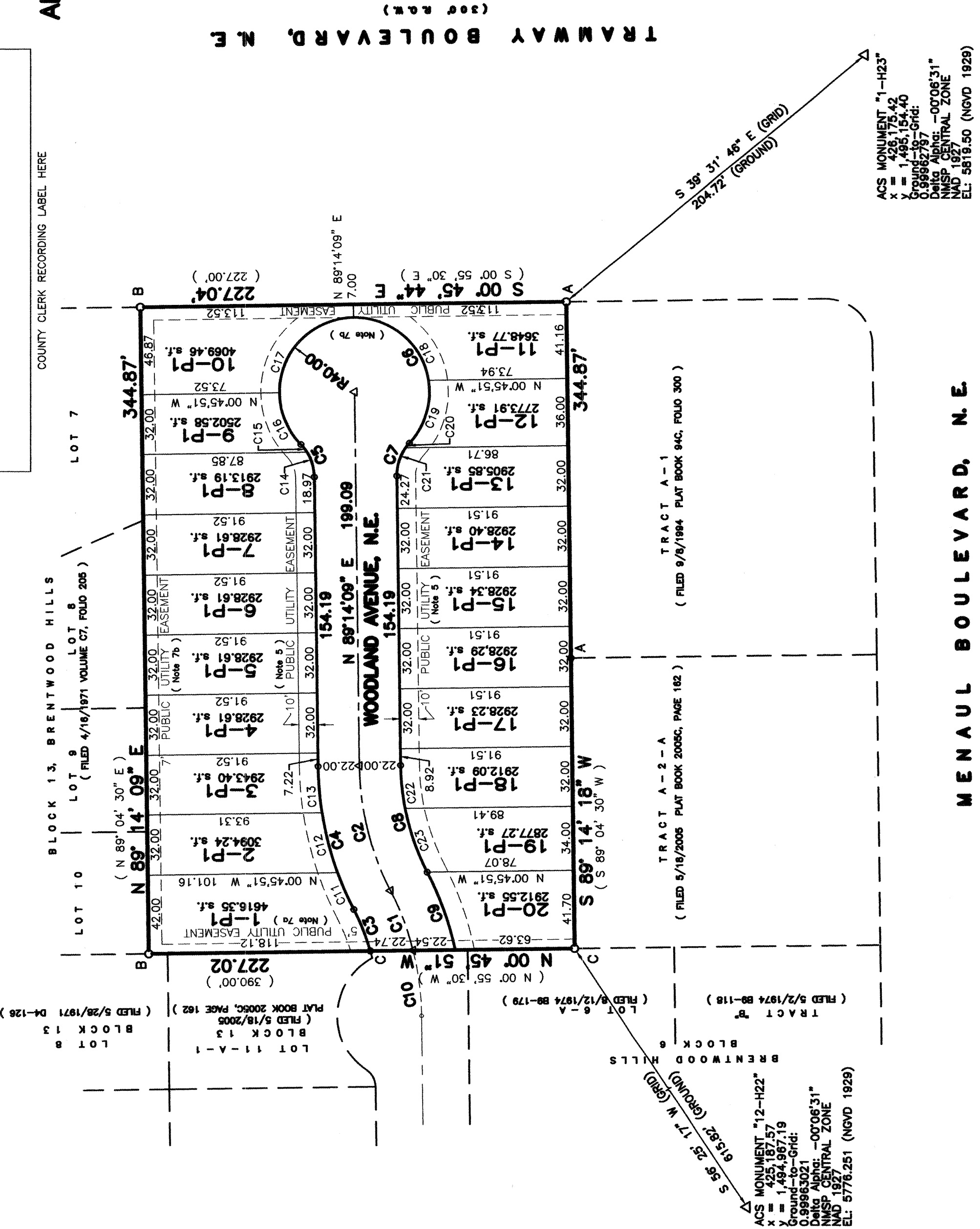
APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
Bryan Wise P.E.
DATE: 7/14/2006

DRB NO. 1001778

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman		11-17-05			
		Transportation		9/16/05			
		Water/Wastewater		9/16/05			
		Hydrology		9/16/05			
		CIP		9/16/05			
AMAFCA							
Constr. Coord.				11-17-05	CITY ENGINEER DATE		
PROJECT NUMBER		768181		DRAWING NO. <u>1</u> OF <u>6</u>			

PLAT OF
TRAMWAY CROSSING
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
A REPLAT OF TRACT A-2
BRENWOOD HILLS
WITHIN NE 1/4 SECTION 10, T. 10 N., R. 4 E., NMPM

MAY 2005



ACS MONUMENT "12-122"
X = 143.18775
Y = 143.18775
Ground to be cleared
0.8894021 - 0.008331"
NAD 83 CENTRAL ZONE
ELEVATION 5776.251 (NOVD 1929)

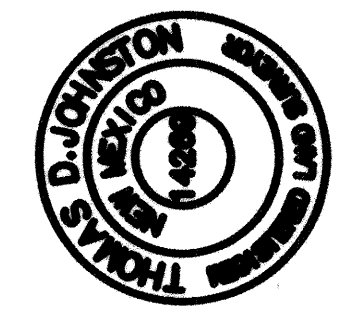
ACS MONUMENT "1-H023"
X = 143.18775
Y = 143.18775
Ground to be cleared
0.8894021 - 0.008331"
NAD 83 CENTRAL ZONE
ELEVATION 5776.251 (NOVD 1929)

MONUMENTATION LEGEND

- A: FOUND #4 REBAR AND CAP "13 6126"
- B: SET PK WALL AND DISK "PS 14289"
- C: SET 1/2" REBAR, CAP "WAYOHN PS 14289"

METAL TAGS STAMPED "WAYOHN PS 14289" WERE ATTACHED TO ALL RECOVERED BOUNDARY CORNERS RESET WERE SET WITH A 1/2" REBAR AND PLASTIC CAP STAMPED "WAYOHN PS 14289"

NOTE: CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR INCH (4") ALUMINUM PIPE OR EQUITIVELY, "PLUS #14289", "DO NOT DISTURB", "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLUS #14289"



330 LOUISIANA BLVD., N.E.
ALBUQUERQUE, N.M. 87108
PHONE: (505) 255-2052 FAX: (505) 255-2887

NEEDING INFORMATION FOR COUNTY CLERK
OWNER: PROPERTY DEVELOPMENT
PROJECT: SECTION 10, T. 10 N., R. 4 E., NMPM
DRAWING NO. SP 20305B
DRAWN: E W K SCALE: 1" = 50'
CHECKED: T D J
DATE: MAY 2005
SHEET 2 OF 2

VICINITY MAP (H-22)

NO SCALE



SUBMISSION DATA

- DRB Proj. No.
- Zone Atlas Index, No. H-22
- Current Zoning R-T (20 Lots, maximum)
- Gross acreage 1.7974 Acres
- Total Number of Lots created - 20 -
- No. of existing tracts: 1
- Miles of full width streets created: 0.058 mi.
- Date of Survey: February, 2004
- TALOS LOG NO.: 2004190357

PURPOSE OF PLAT:

The purpose of this plat is to replace one existing lot into twenty residential lots, dedicate public right of way and grant easements.

NOTES

- Bearings are Old Bearings, Central Zone, NAD 1927, based upon ACS monuments, and NAD 83, and NAD 83-4N, and found instruments.
- All distances are ground.
- Monuments recovered and accepted or set are noted on plat.
- Record bearings and distances in parenthesis. Record dimensions from the - Plat of Tracts A-1 and A-2, BRENWOOD HILLS filed SEPTEMBER 6, 1994; Map Book 94C, folio 300.
- Ten foot (10') Public Utility Easement along all street rights of way is hereby granted with the filing of this plat.
- Street right-of-way is dedicated to the City of Albuquerque in fee simple with warranty covenants by this plat.
- This replat shows all easements of record:
 - a. Easement for public utility easement from Map Book D1, Folio 63 and in Map Book 94C, Folio 300. Easement is located along westerly line of Tract A-2.
 - b. Seven foot public utility easement from Plat recorded in Map Book C7, Folio 118 and in Map Book 94C, Folio 300. Easement is located along northerly line and easterly line of Tract A-2.

FOR BERNALILLO COUNTY TREASURER'S OFFICE USE ONLY

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON

UPON: 1.011.051.488.028.40925

PROPERTY OWNER OF RECORD:

BERNALILLO COUNTY TREASURER'S OFFICE

PLAT OF
TRAMWAY CROSSING
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
A REPLAT OF TRACT A-2
BRENWOOD HILLS
WITHIN NE 1/4 SECTION 10, T. 10 N., R. 4 E., NMPM

MAY 2005

APPROVALS as specified by the City of Albuquerque Subdivision Ordinance:

PROJECT NO.	APPLICATION NO.	DATE
DRB Chairperson, Planning Department, City of Albuquerque		Date
Traffic Engineer, City of Albuquerque		Date
Water Utilities Department, City of Albuquerque		Date
City Surveyor, City of Albuquerque		Date
Parks and Recreation, City of Albuquerque		Date
A.M.A.F.C.A.		Date
City Engineer, City of Albuquerque		Date
PNM Gas and Electric Services		Date
Overseer Telecommunications		Date
Connecticut Cable		Date

SURVEYOR'S CERTIFICATE

I, Thomas D. Johnston, licensed as a Professional Surveyor under the laws of the State of New Mexico, do hereby certify that I am the owner of the plat and that I am responsible for this plat, but I do not share all easements of the recorded plat and made known to me by the title company, utility companies or by the owner of record, meets the minimum standards for the plat. I am not a Professional Engineer or a Professional Land Surveyor, as required by the Minimum Standards for Land Surveys as adopted by the New Mexico State Board of Registration for Professional Engineers and Surveyors, effective October 1, 2000 and is true and correct to the best of my knowledge and belief.

Thomas D. Johnston, N.M.P.S. No. 14289

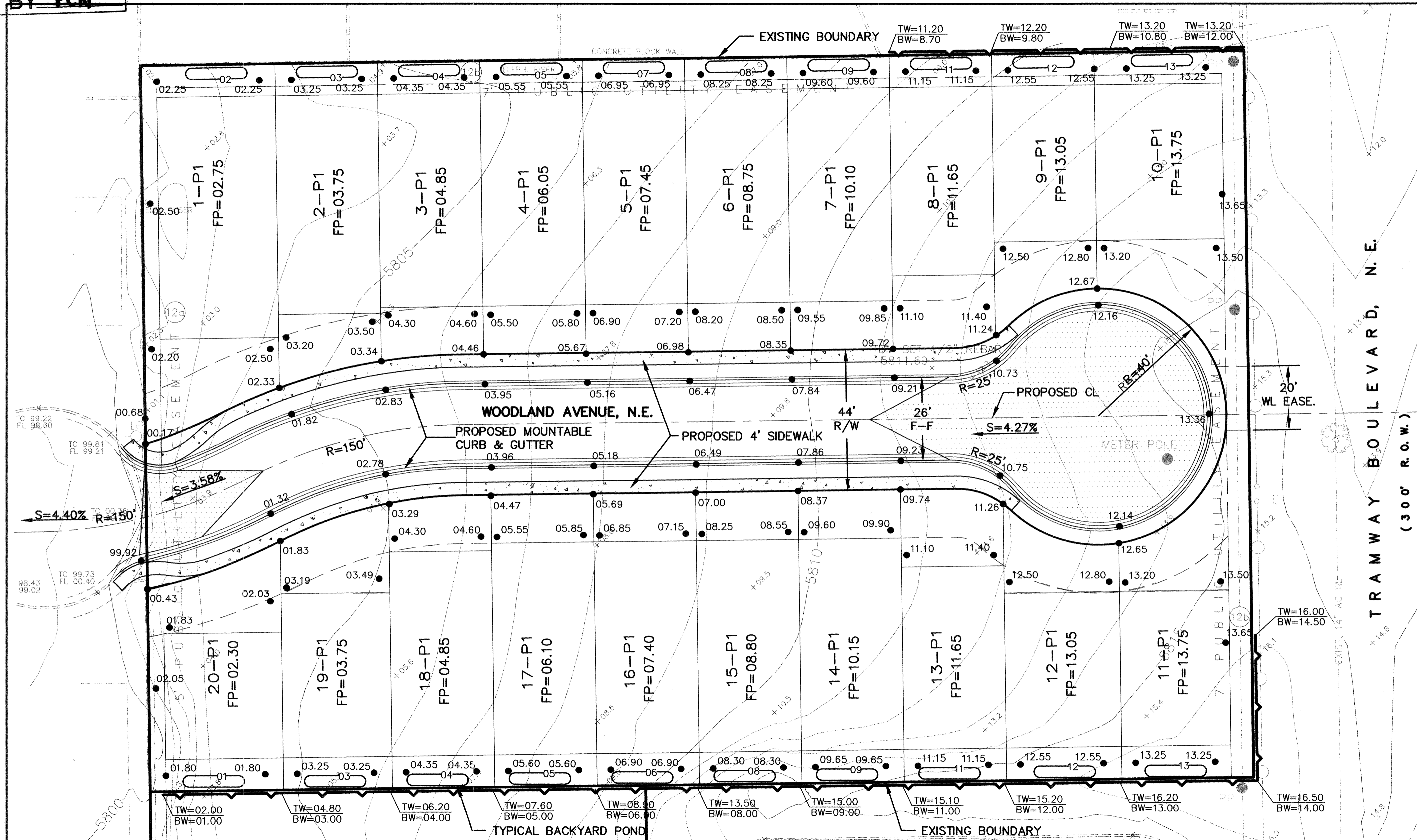
Date



330 LOUISIANA BLVD., N.E.
ALBUQUERQUE, N.M. 87108
PHONE: (505) 255-2052 FAX: (505) 255-2887

NEEDING INFORMATION FOR COUNTY CLERK
OWNER: PROPERTY DEVELOPMENT
PROJECT: SECTION 10, T. 10 N., R. 4 E., NMPM
DRAWING NO. SP 20305B
DRAWN: E W K SCALE: 1" = 50'
CHECKED: T D J
DATE: MAY 2005
SHEET 1 OF 2

SCANNED
BY PLN



DRAINAGE PLAN:

LOCATION AND DESCRIPTION

THE PROPOSED SITE IS TRACT A-2-B, BRENTWOOD HILLS. THE SITE IS LOCATED AT THE EAST END OF WOODLAND AVENUE NEAR THE INTERSECTION OF MENAUL BLVD. AND TRAMWAY BLVD. THE SITE WILL BE DEVELOPED INTO A 20 LOT SUBDIVISION WITH TOWNHOMES. THE AREA OF TRACT A-2-B IS 1.80 ACRES. THE SITE IS CURRENTLY VACANT WITH SPARSE VEGETATION.

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED NOVEMBER 19, 2003 (PANEL NO. 35001C0376 E) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 4. THE 100-YEAR, 6-HOUR STORM IS 2.90 INCHES.

THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO WOODLAND AVENUE, WHICH IS A CUL-DE-SAC. THE PEAK RUNOFF DRAINING TO WOODLAND FROM THE VACANT SITE IS 3.96 CFS. THERE ARE 13 LOTS THAT DRAIN TO WOODLAND AVENUE CUL-DE-SAC. THE PEAK RUNOFF DRAINING TO WOODLAND FROM THE 13 LOTS IS 12.23 CFS. THEREFORE, AT THE WEST END OF WOODLAND AVE. AT MARIE PARK DRIVE A THE PEAK FLOW IS 16.2 CFS.

DEVELOPED DRAINAGE CONDITIONS:

IN THE FUTURE, THE PROPERTY WILL BE SUBDIVIDED INTO 20 LOTS WITH TOWNHOMES. SINCE THE TOWNHOMES WILL GENERALLY HAVE COMMON WALLS WITH NO SIDEYARDS, THE BACKYARD OF EACH LOT WILL DRAIN TO A SMALL POND LOCATED NEAR THE REAR WALL. RUNOFF FROM THE ENTIRE ROOF OF EACH TOWNHOME WILL DRAIN TO THE FRONT OF THE LOT AND INTO THE STREET. THE BACKYARD POND WILL BE SIZED TO INCLUDE THE RUNOFF FROM THE BACKYARD ONLY. DUE TO THE HIGH DENSITY OF THE SUBDIVISION, TYPE D LAND TREATMENT FOR THE DEVELOPED CONDITION IS 84%.

THE DEVELOPED RUNOFF FROM THE SUBDIVISION AT THE EXISTING WOODLAND CUL-DE-SAC BULB IS 8.55 CFS, INCLUDING NO CREDIT FOR BACKYARD PONDING. THE 26 FOOT-WIDE STREET WITH MOUNTABLE CURB HAS A SLOPE OF 3.85%. THE STREET CAPACITY CALCULATION SHOWS THAT THE NORMAL DEPTH IS 0.20 FEET AND THE ENERGY GRADE DEPTH IS 0.50 FEET, WHICH IS LESS THAN 0.51 FEET AT THE RIGHT-OF-WAY LINE. ADDING THE RUNOFF FROM THE SUBDIVISION AND THE RUNOFF FROM THE EXISTING LOTS THAT DRAIN TO WOODLAND RESULTS IN A PEAK FLOW OF 20.78 CFS AT MARIE PARK DRIVE. THE EXISTING WOODLAND DRIVE IS 32 FOOT FACE-TO-FACE WITH STANDARD CURB AT A SLOPE OF 4.40%. THE STREET CAPACITY CALCULATION AT MARIE PARK DRIVE SHOWS THAT THE NORMAL DEPTH IS 0.27 FEET AND THE ENERGY GRADE DEPTH IS 0.76 FEET, WHICH IS LESS THAN 0.85 FEET AT THE RIGHT-OF-WAY. THEREFORE, AT BOTH LOCATIONS THE PEAK FLOW REMAINS WITHIN THE STREET RIGHT-OF-WAY.

APPROVED FOR ROUGH GRADING

SIGNATURE

DATE

100-YEAR HYDROLOGIC CALCULATIONS

BASIN ID	AREA (ac.)	LAND TREATMENT				PEAK FLOW (CFS)	RUNOFF 6-HR (CF)
		A	B	C	D		
EXISTING CONDITIONS							
SUBDIVISION	1.80	1.8	0	0	0	3.96	0.120
WOODLAND AVE.	2.92	0	0.80	0.81	1.31	12.23	0.459
PROPOSED CONDITIONS							
SUBDIVISION	1.80	0	0.23	0.24	1.33	8.55	0.343

LEGEND

FP=02.00 FINISHED PAD SITE ELEVATION

01.00

PROPOSED SPOT ELEVATION

TW=02.00

BW=01.00

TOP OF CURB AND FLOWLINE ELEVATIONS

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

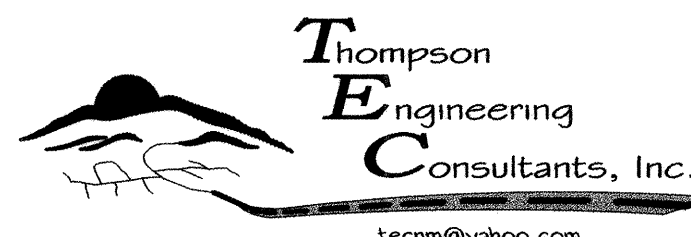
PROPOSED RETAINING WALL

SEE SHEET 2 FOR DETAIL

PROPOSED MOUNTABLE CURB AND GUTTER

TYPICAL RETAINING WALL
W/GARDEN WALL EXTENSION

FOR INFORMATION ONLY



4800 JUAN TABO NE, SUITE C PHONE: (505) 271-2199
ALBUQUERQUE, NEW MEXICO 87111 FAX: (505) 237-8422

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT

GRADING & DRAINAGE PLAN
TRAMWAY CROSSING

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

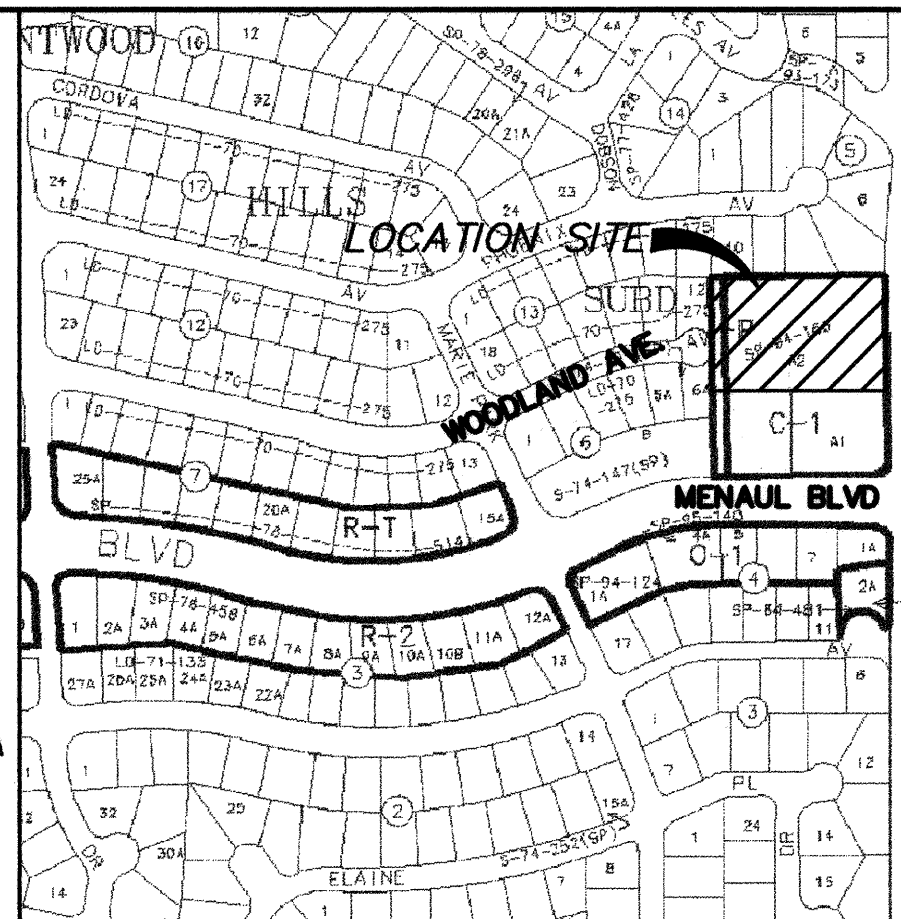
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MO./DAY/YR.

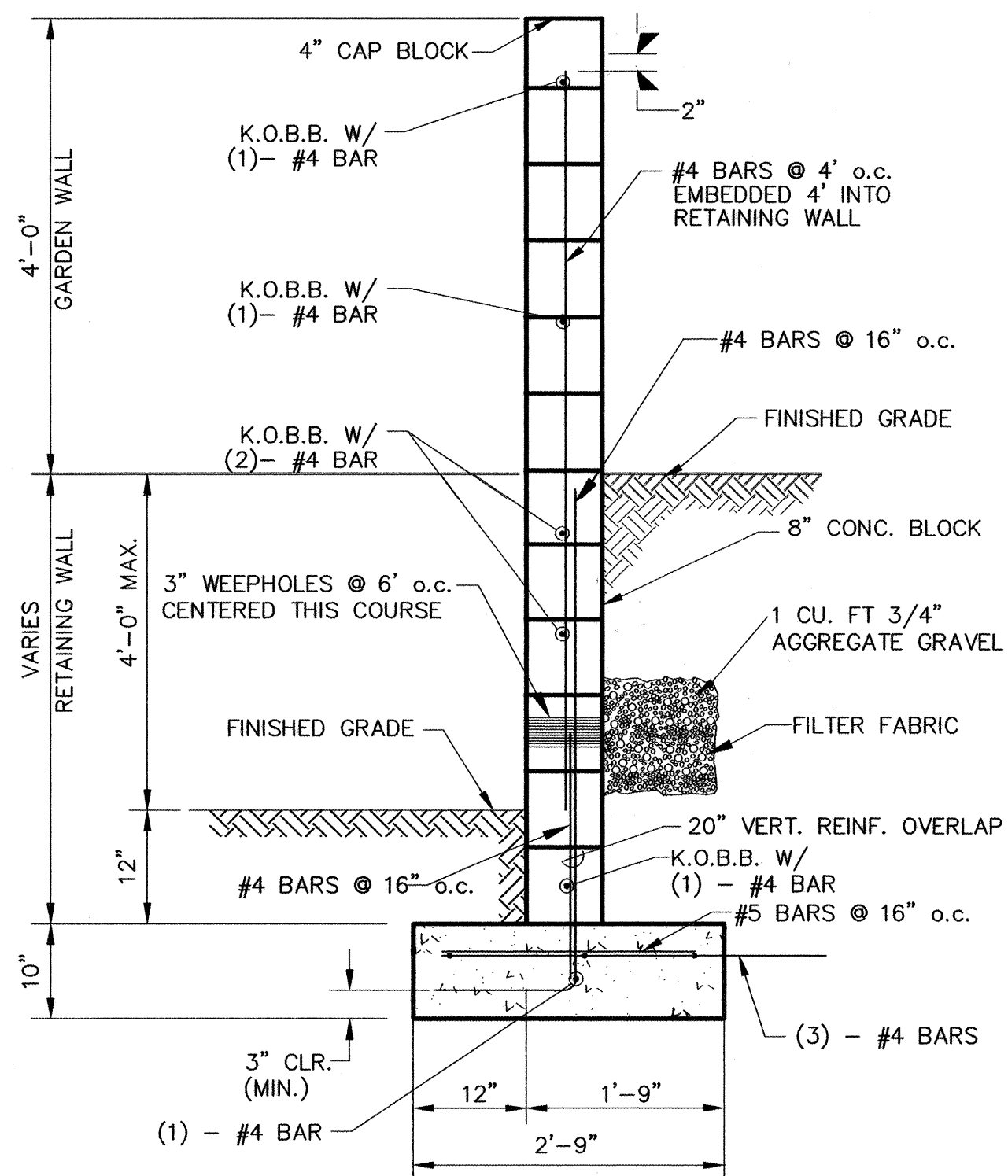
City Project No.
768181

Zone Map No.
H-22-Z

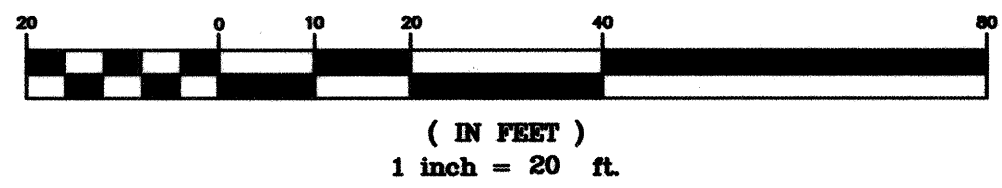
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3 Of
6



VICINITY MAP: H-22-Z



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

44' EASEMENT

4' SIDEWALK DEFERRED

5'

13' DRIVE LANE

13' DRIVE LANE

5'

4' SIDEWALK DEFERRED

PROFILE GRADE

2%

2%

2%

2%

MOUNTABLE CURB & GUTTER
SEE STD COA DWG# 2415A

PAVING SECTION
PER DETAIL THIS SHEET

PROPOSED 4" THICK P.C.C. SIDEWALK
PER COA STD DWG# 2430 OVER —
12" SUBGRADE COMPACTED TO 95% MIN.

MOUNTABLE CURB & GUTTER
SEE STD COA DWG# 2415A

PAVING SECTION
PER DETAIL THIS SHEET

MOUNTABLE CURB TYPICAL SECTION FOR TRAMWAY CROSSING

1-1/2" ASPHALTIC CONCRETE CRSE -
1500# STAB. TYPE C GRADATION

~~TACK COAT BETWEEN LIFTS (IF REQ'D)~~

1-1/2" ASPHALTIC CONCRETE CRSE -
1500# STAB. TYPE C GRADATION

1' SUBGRADE SOIL, R-VALUE >50
COMPACTED TO 95%. SOIL NOT HAVING
THE MINIMUM R-VALUE OF 50 SHALL BE
REMOVED TO A DEPTH OF 2 FT. AND
REPLACED, BY THE CONTRACTOR, WITH
SUITABLE MATERIAL OR A PAVEMENT
SECTION SHALL BE DESIGNED BY
CONSULTANT ACCOMMODATING THE
EXISTING R-VALUE PER COA STANDARD
SPECIFICATIONS.

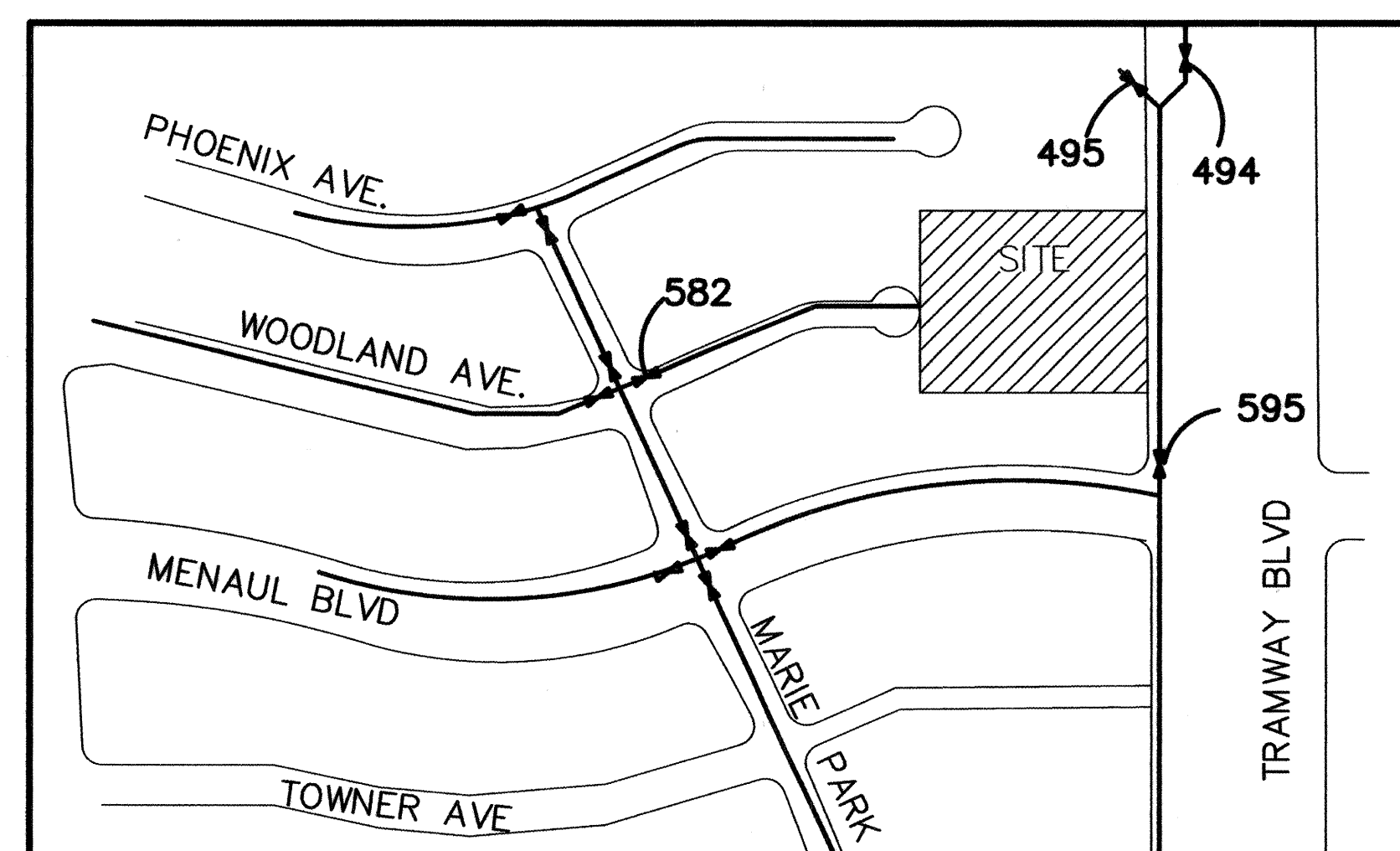
ASPHALT
WAS CONSTRUCTED
IN (1) LIFT (3")

— SUBGRADE COMPACTED TO 90%

RESIDENTIAL PAVING SECTION – MOUNTABLE CURB & GUTTER

(PER COA STD. DWG. No. 2415A)

NTS



SHUT OFF PLAN NOTES:

1. CONTACT WATER SYSTEMS (857-8200) AT LEAST 7 WORKING DAYS IN ADVANCE OF CONSTRUCTION.
2. ONLY CITY CREWS MAY OPERATE VALVES.
3. IN CASE OF AN EMERGENCY SHUT OFF VALVES # 494, 495, 582 AND 595

WATER SHUT-OFF PLAN

[illegible]

Thompson
Engineering
Consultants, Inc.

tecmm@yahoo.com

P.O. BOX 65760
ALBUQUERQUE, NM 87193

PHONE: (505) 271-2191
FAX: (505) 830-9422

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT**

DETAILS TRAMWAY CROSSING

DESIGN REVIEW COMMITTEE
APPROVE
NOV 17 2005
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

APPROVED

JAN - 5 2005

CITY ENGINEER

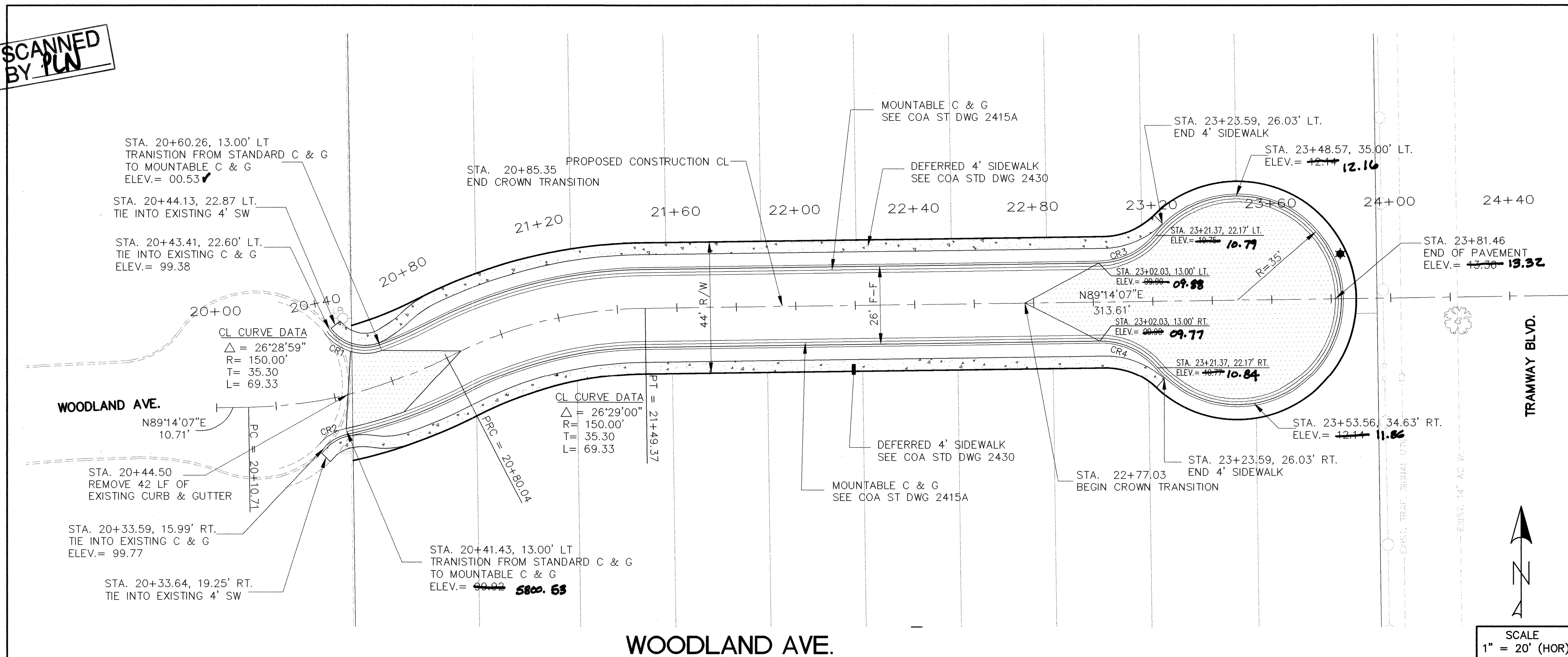
MO./DAY/YR.	MO./DAY/YR.

City Project No
768181

Zone Map No
H-22-7

Sheet	Of
4	6

SCANNED BY PLN



NOTE:

1. ALL DISTURBED LANDSCAPE AREAS TO BE REMOVED AND REPLACED AS NEEDED.

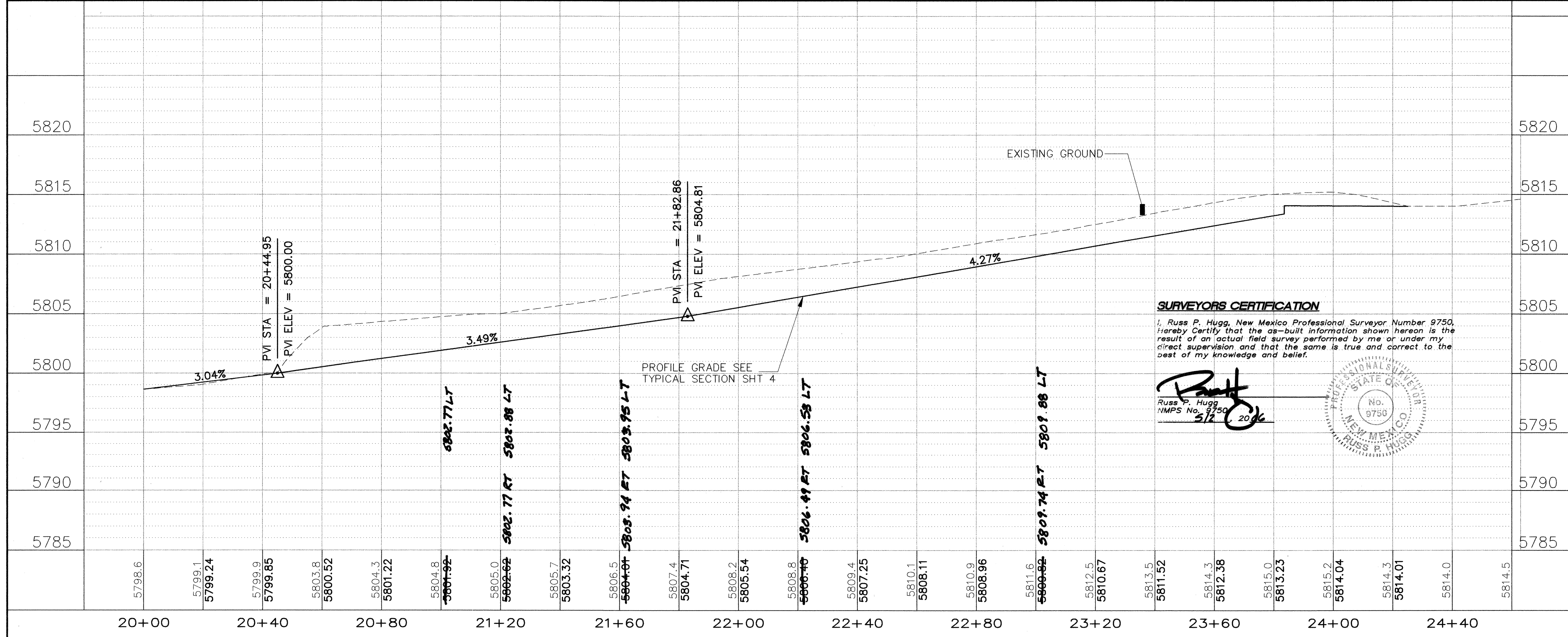
CR1		CURVE DATA		QRT POINT	
Δ	72°08'41"	FL	TC	FL	TC
R	15.00'	99.25	00.92	99.96	00.63
T	10.93	99.67	00.34		
L	18.89				

CR2		CURVE DATA		QRT POINT	
Δ	35°20'20"	FL	TC	FL	TC
R	15.00'	99.80	00.47	99.83	00.50
T	4.78	99.86	00.53		
L	9.25				

CR3		CURVE DATA		QRT POINT	
Δ	50°42'13"	FL	TC	FL	TC
R	25.00'	10.54	10.87	10.33	10.66
T	11.85	10.33	10.66		
L	22.12	10.12	10.45		

CR4		CURVE DATA		QRT POINT	
Δ	50°42'13"	FL	TC	FL	TC
R	25.00'	10.34	10.67	10.56	10.89
T	11.85	10.56	10.89		
L	22.12				

SCALE
1" = 20' (HOR)
1" = 4' (VER)



LEGEND

- CENTERLINE OF STREET
- PROPOSED PROPERTY BOUNDARY
- PROPOSED MOUNTABLE C & G
- PROPOSED STANDARD C & G
- PROPOSED SIDEWALK - DEFERRED
- PROPOSED CROWN TO NO CROWN TRANSITION
- EXISTING CURB & GUTTER
- PROPOSED STREET LIGHT

Thompson Engineering Consultants, Inc.
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tecnm@yahoo.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT

WOODLAND AVE. PAVING PLAN AND PROFILE
TRAMWAY CROSSING

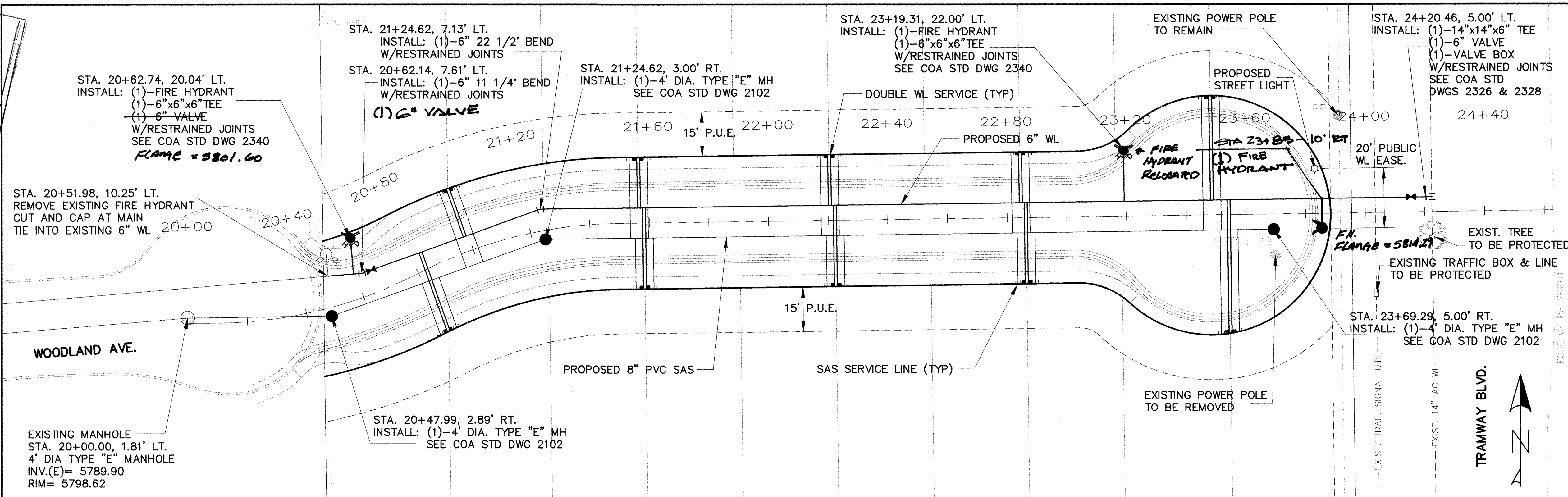
DESIGN REVIEW COMMITTEE
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CITY ENGINEER APPROVAL
JAN - 5 2005
CITY ENGINEER

MO./DAY/YR.	MO./DAY/YR.

City Project No. 768181 Zone Map No. H-22-Z Sheet 5 Of 6

SCANNED BY



NOTE:
1. ALL DISTURBED LANDSCAPE AREAS TO BE REMOVED AND REPLACED AS NEEDED.
2. EMDS REQUIRED PER DPM.

SAS SERVICE HOOK-UP					WATER MAIN LINE SPUR				
LOT	STATION	OFFSET	ELEV.		STATION	OFFSET	TYPE		
1	20+95.90	22.00 LT	97.35		20+98.40	22.00 LT	DOUBLE		
2	21+01.90	22.00 LT	97.56		20+99.40	22.00 LT			
3	21+53.59	22.00 LT	99.51		21+56.09	22.00 LT	DOUBLE		
4	21+59.59	22.00 LT	99.76		21+57.09	22.00 LT			
5	22+17.59	22.00 LT	02.14		22+20.09	22.00 LT	DOUBLE		
6	22+23.59	22.00 LT	02.39		22+21.09	22.00 LT			
7	22+37.59	22.00 LT	04.77		22+34.09	22.00 LT	DOUBLE		
8	22+45.59	22.00 LT	05.02		22+43.09	22.00 LT			
9	23+51.59	40.00 LT	07.76		23+48.09	40.00 LT	DOUBLE		
10	23+46.53	40.00 LT	08.01		23+49.03	40.00 LT			

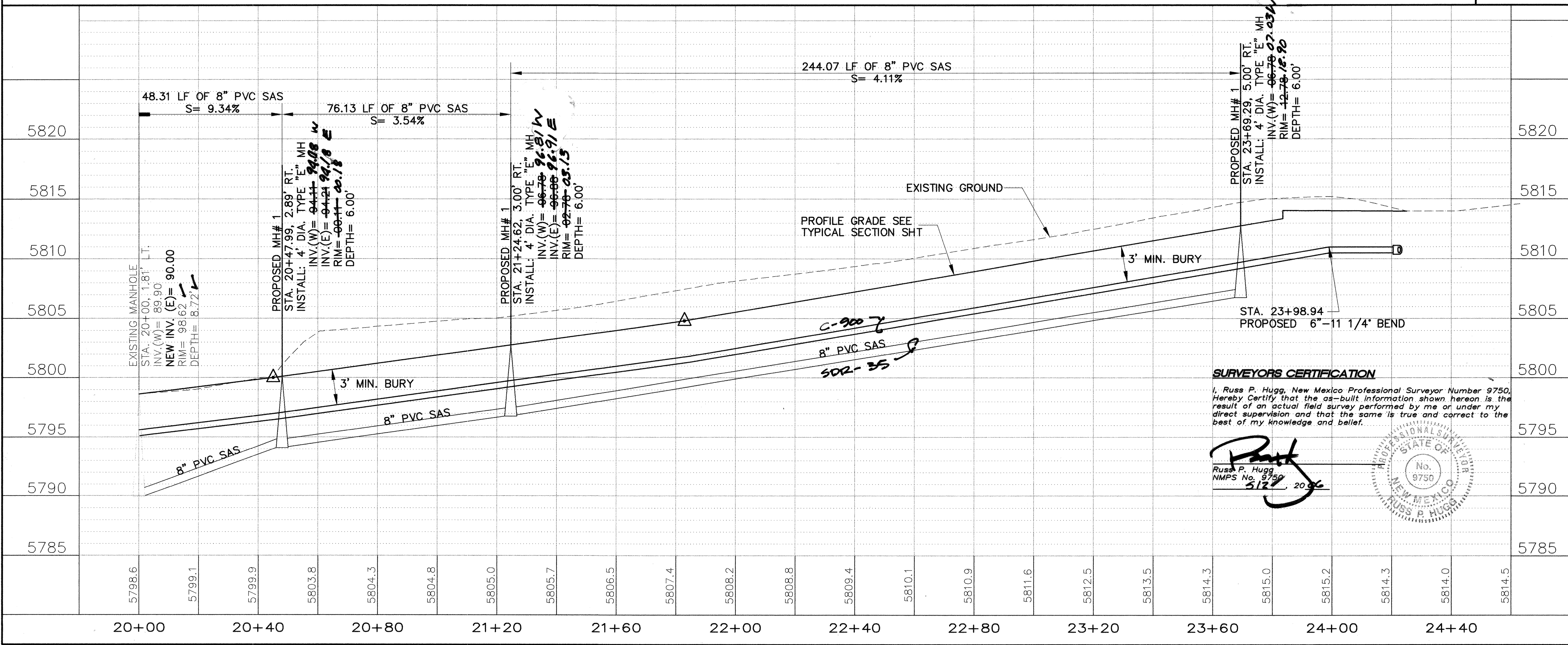
SAS SERVICE HOOK-UP					WATER MAIN LINE SPUR				
LOT	STATION	OFFSET	ELEV.		STATION	OFFSET	TYPE		
11	23+57.29	39.57 RT	08.25		23+54.79	39.57 RT	DOUBLE		
12	23+51.29	39.57 RT	08.00		23+53.79	39.57 RT			
13	22+89.09	22.00 RT	05.09		22+86.59	22.00 RT	DOUBLE		
14	22+83.09	22.00 RT	04.84		22+85.59	22.00 RT			
15	22+25.29	22.00 RT	02.46		22+22.79	22.00 RT	DOUBLE		
16	22+19.29	22.00 RT	02.21		22+21.79	22.00 RT			
17	21+61.29	22.00 RT	99.83		21+58.79	22.00 RT	DOUBLE		
18	21+55.29	22.00 RT	99.58		21+57.79	22.00 RT			
19	20+83.04	22.00 RT	96.89		20+80.54	22.00 RT	DOUBLE		
20	20+77.04	22.00 RT	96.68		20+79.54	22.00 RT			

RESTRAINED JOINT LENGTHS, L, FOR TEES, (FT.)		
SIZE	RUN	BRANCH
14x14x6	6	20

RESTRAINED JOINT LENGTHS, L, FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)		
SIZE	HORZ. BENDS	VALVES & DEAD ENDS
6"	17	46

WOODLAND AVE.

SCALE
1" = 20' (HOR)
1" = 4' (VER)



SURVEYORS CERTIFICATION
I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, Hereby Certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.
Russ P. Hugg
NMPs No. 9750
2/22/2006

- LEGEND**
- PROPOSED SANITARY SEWER
 - PROPOSED SAS MANHOLE
 - PROPOSED FIRE HYDRANT
 - PROPOSED GATE VALVE
 - PROPOSED CAP OR PLUG
 - PROPOSED SINGLE METER, WATER SERVICE LINE
 - PROPOSED DOUBLE METER, WATER SERVICE LINE
 - PROPOSED SANITARY SEWER SERVICE LINE
 - PROPOSED CROSS, TEE, OR ELBOW

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WOODLAND AVE. UTILITY PLAN AND PROFILE TRAMWAY CROSSING	
DESIGN REVIEW COMMITTEE NOV 17 2005	CITY ENGINEER APPROVAL JAN - 3 2005
DESIGNED BY DBT DRAWN BY DEM CHECKED BY DBT	NO. DATE REMARKS BY DATE
City Project No. 768181	Zone Map No. H-22-Z
Sheet 6	Of 6