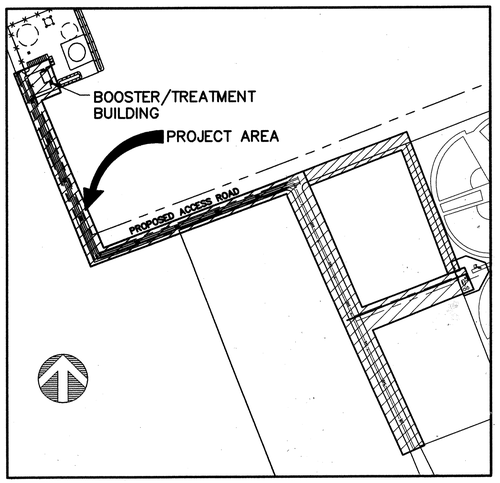
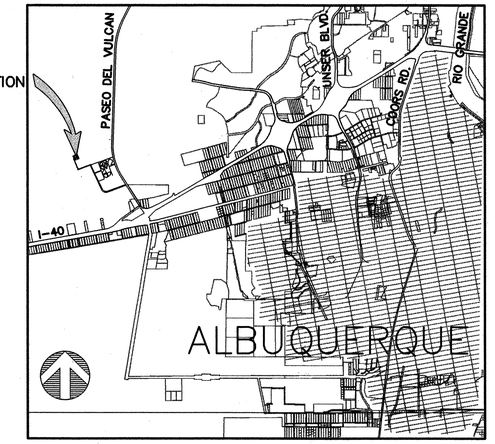


AREA PLAN
N.T.S.

BERNALILLO COUNTY, NEW MEXICO
PUBLIC WORKS DEPARTMENT
CONSTRUCTION PLANS
FOR
INDUSTRIAL PARK WATER SYSTEM
ROADWAY AND WATER/SEWER LINES
BID PACKAGE C
BC PROJECT NO. TS 04-07-C



VICINITY MAP
ZONE ATLAS MAP K-4, K-5
SCALE: 1"=5000'

SCANNED BY MESA REPRO

INDEX

SHEET NO.	DESCRIPTION
1.	DRAWING INDEX, AREA PLAN, AND VICINITY
***2.	GENERAL NOTES AND LEGEND
*3.	OVERALL PLAN LAYOUT **(REVISED)**
4.	GRADING AND DRAINAGE PLAN – 1ST. SHT.
*5.	GRADING AND DRAINAGE PLAN – 2ND. SHT. **(REVISED)**
*6.	ROADWAY PLAN AND PROFILE STA. 10+00.00 TO 21+50.00 – TEMPUR-PEDIC (FUTURE)
7.	ROADWAY PLAN AND PROFILE STA. 21+50.00 TO 30+50.00 – TEMPUR-PEDIC/LADERA (FUTURE)
8.	ROADWAY PLAN AND PROFILE STA. 30+50.00 TO 41+50.00 – N-S ACCESS/LADERA (FUTURE)
9.	ROADWAY PLAN AND PROFILE STA. 41+50.00 TO 50+01.56 – N-S ACCESS
~~*10.~~	~~DRIVEWAY PLAN AND PROFILE STA. 10+00.00 TO 17+09.99 – WELL EASEMENT~~
*11.	WATER AND SEWER PLAN AND PROFILE STA. 10+00.00 TO 21+50.00 – TEMPUR-PEDIC (FUTURE)
*12.	WATER AND SEWER PLAN AND PROFILE STA. 21+50.00 TO 30+50.00 – TEMPUR-PEDIC/LADERA (FUTURE) **(REVISED)**
13.	WATER AND SEWER PLAN AND PROFILE STA. 30+50.00 TO 41+50.00 – N-S ACCESS/LADERA (FUTURE)
14.	WATER AND SEWER PLAN AND PROFILE STA. 41+50.00 TO 49+84.92 – N-S ACCESS
15.	WATER AND SEWER PLAN AND PROFILE STA. 10+00 TO 11+87.92 – ON RESERVOIR SITE
~~*16.~~	~~WATERLINE PLAN AND PROFILE STA. 10+00.00 TO 17+09.99 – WELL EASEMENT~~
*17.	MISCELLANEOUS WATER AND SEWER LINE DETAILS
18.	MISCELLANEOUS ROADWAY DETAILS
19.	COA STANDARD DETAILS
20.–25.	ROADWAY SECTIONS
** 10A.	ROADWAY PLAN AND PROFILE STA. 10+00.00 TO 19+93.74
** 10B.	ROADWAY PLAN AND PROFILE STA. 19+93.74 TO 26+31.50
** 16A.	WATER/SEWER LINES PLAN AND PROFILE STA. 10+00.00 TO 19+93.74
** 16B.	WATER/SEWER LINES PLAN AND PROFILE STA. 19+93.74 TO 26+31.50
** 25A.–25B.	ROADWAY SECTIONS

** SHEETS 10A, 10B, 16A, 16B, 25A AND 25B ARE ADDED PER REVISION #3.

* REVISED SHEETS PER REVISION #3. – During Construction

*** REVISED SHEETS PER ADDENDUM #4 – During Construction

CERTIFICATE OF SUBSTANTIAL COMPLIANCE FOR PLANS

I, Dennis D. Brand, of the firm Wilson & Company, Inc, a Registered Professional Engineer in the State of New Mexico, NMPE number 8374, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project substantially complies with the plans and specifications approved by the City Engineer/Water Utility Authority Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on survey information provided by Vladimir Jirik, NMPLS # 10464, and as-built drawing information provided by the Contractor, Construction, Contracting & Management, Inc. (CCM).

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER

5/22/06

CERTIFICATE OF SUBSTANTIAL COMPLIANCE FOR INSPECTION

I, Lisa A. Manwill, of Bernalillo County Public Works Division, a Registered Professional Engineer in the State of New Mexico, NMPE number 13490, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and substantially complies with the plans and specifications approved by the City Engineer/Water Utility Authority Engineer and that the original design intent of the approved plans has been met, except as noted on the as-built drawings.

LISA ANN HARLAN-MANWILL NEW MEXICO 13490 REGISTERED PROFESSIONAL ENGINEER

THE AS-BUILT INFORMATION ON THE SANITARY SEWER MANHOLES WAS COMPILED FROM FIELD SURVEYS CONDUCTED BETWEEN NOVEMBER 30TH 2005, AND DECEMBER 20TH 2005.
ALBUQUERQUE SURVEYING CO.

Vladimir Jirik; 12/28/2005
NMPLS# 10464

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO NO. 10464 VLADIMIR JIRIK

APPROVED FOR CONSTRUCTION
5/27/06
BERNALILLO COUNTY PUBLIC WORKS

APPROVED OF RECORD
Victoria A. Dey PE.
DATE 8/23/2006

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
4	3,5,6,11,12,13	N/A	8/31/05	—	—	—	—

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	**********
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER May 31, 2005	DRC Chairman		8-29-05	APPROVED FOR CONSTRUCTION
	Water/Wastewater		8/03/05	
	Hydrology		8/3/05	
				City Engineer Date
				Sheet Of

BERNALILLO COUNTY STATE OF NEW MEXICO

WILSON & COMPANY
4900 LANG AVENUE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 348-4000

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

BCPW PROJECT NO. TS 04-07-C
COA PROJECT NO. 76 0683

SHEET NO. 1 OF 25

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STANDARD SPECIFICATIONS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH: THE LATEST VERSION OF THE BERNALILLO COUNTY PUBLIC WORKS STANDARDS, "THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986," UPDATE #7 (REFERRED TO HEREAFTER AS THE COA STANDARD SPECIFICATIONS), OR AS MODIFIED BY THE PROJECT SPECIFICATIONS, WHICHEVER IS APPROPRIATE FOR THE SPECIFIC ITEMS OF WORK.

NOTIFICATIONS

1. FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. PERMITS SHALL BE ACQUIRED A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION. CONTACT BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT (848-1500)AND CITY OF ALBUQUERQUE (924-3400) FOR INFORMATION. A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY STREET CLOSURES AND PRIOR TO ANY WORK WITHIN RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY IN WRITING THE FIRE DEPARTMENT AND SHERIFF'S DEPARTMENT FOR THE APPROPRIATE JURISDICTION.
3. FOR ALL WORK ASSOCIATED WITH PROJECT CONTRACTOR IS REQUIRED TO OBTAIN AN EXCAVATION PERMIT PRIOR TO THE START OF ANY WORK WITHIN COUNTY RIGHT-OF-WAY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, FIRE DEPARTMENT AND SHERIFF'S DEPARTMENT IN WRITING, A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY STREET CLOSURES AND PRIOR TO ANY WORK WITHIN COUNTY RIGHT-OF-WAY.

UTILITIES

1. ALL EXISTING UNDERGROUND UTILITIES (AND ABOVE GROUND OBSTACLES/UTILITIES) MAY NOT BE SHOWN HEREON AND ALL EXISTING UTILITIES/OBSTACLES THAT ARE SHOWN ON THE PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT UTILITY OWNERS, AND CONDUCT NECESSARY FIELD INVESTIGATIONS TO VERIFY ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND/OR OBSTACLES PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION, SHOULD A CONFLICT BE FOUND, NOTIFY THE ENGINEER SO CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
2. EXERCISE CARE TO AVOID DISTURBING EXISTING UTILITIES, AND COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
3. CONTRACTOR SHALL BE RESPONSIBLE TO SUPPORT AND MAINTAIN ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS. EMPLOY SHORING, SHEETING, AND OTHER MEANS OF SUPPORT TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER WILL BE IMMEDIATELY NOTIFIED OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT THE CONFLICT CAN BE RESOLVED IN A TIMELY MANNER.
4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE CONSIDERED.
5. ALL WATER VALVE BOXES WITHIN THE SITE ARE TO BE ADJUSTED TO FINISH GRADE PER COA STANDARD SPECIFICATIONS AND ARE TO BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE ANY WATER VALVE SHUTOFF OPERATION WITH THE WATER SYSTEMS DIVISION (857-8200) NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING WATER UTILITIES. WATER SERVICE SHALL BE MAINTAINED TO ALL CUSTOMERS DURING CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL WATER FROM DEWATERING ACTIVITIES (IF ANY). CONTRACTOR SHALL BE RESPONSIBLE TO MAKE NECESSARY ARRANGEMENTS WITH MRGCD FOR USE OF DITCHES AND/OR DRAINS FOR THIS PURPOSE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRENCHES IN A SAFE CONDITION.

* 12. SEQUENCING OF CONSTRUCTION: THIS PROJECT MATCHES WITH OTHER PROJECTS THAT ARE UNDER CONSTRUCTION WITHIN THE SAME CONSTRUCTION TIME PERIOD AS THIS PROJECT. IN PARTICULAR, RESERVOIR SITE ROUGH GRADING (FOR DRAINAGE) AND CONSTRUCTION OF THE DETENTION POND, AND POND PIPE OUTLET PIPING UNDER THIS PROJECT, SHALL BE PERFORMED UNDER CRITICAL PHASE CONSTRUCTION, WITH A DEADLINE OF 45 CALENDAR DAYS AFTER BEGINNING OF CONTRACT. AFTER ROUGH GRADING AND POND CONSTRUCTION ARE COMPLETED, THE RESERVOIR SITE CONTRUCTION LIMITS SHALL REVERT BACK TO THE BORDER BETWEEN THE SOUTHWEST EDGE OF THE SITE AND THE 50-FOOT WIDE ROAD R.O.W. FOR ALL OTHER CONSTRUCTION, THE LIMITS OF WORK SHALL REMAIN AT THIS LOCATION.

* 13. CONSTRUCTION COORDINATION:
(A) THIS CONTRACT WILL CONNECT WITH BID PACKAGE D-BOOSTER/TREATMENT SYSTEMS" (COA #760684), AT THE NORTHERN END AND THE TEMPUR-PEDIC DRIVE CONSTRUCTION AT THE SOUTH END. COORDINATION WITH THOSE PROJECTS IS REQUIRED FOR ALL CONNECTIONS.

(B) THIS CONTRACT WILL FIRST CONSTRUCT THE DETENTION POND, OUTLET PIPE AND ROUGH GRADING OVER PORTIONS OF THE RESERVOIR SITE, WHICH IS TO BE OCCUPIED BY BID PACKAGE D (COA #760684) AFTER THE WORK IS COMPLETE. "THIS WORK SHALL BE COMPLETED WITHIN THE FIRST 45 CALENDAR DAYS AFTER BEGINNING OF CONTRACT. COORDINATION WITH BID PACKAGE D IS REQUIRED.

(C) THIS CONTRACT IS CONSTRUCTING THE WATER, SEWER, AND ROADWAY WITHIN THE ACCESS R.O.W TO THE RESERVOIR SITE. THIS CONTRACT SHALL GRADE AND MAINTAIN A 20-FOOT WIDE ACCESS CORRIDOR ON ONE SIDE OF CONSTRUCTION AT ALL TIMES FOR THE OTHER CONTRACTORS TO ACCESS THE RESERVOIR SITE. WESTLAND SHALL GRANT TEMPORARY ACCESS PERMIT FOR ALL OR PORTIONS OF THIS ACCESS CORRIDOR, BUT ANY PORTION OUTSIDE THE PERMANENT R.O.W SHALL BE RE-GRADED AND PUT BACK TO ITS ORIGINAL CONDITION AND RE-SEEDED TO MATCH NATIVE SPECIES AS MUCH AS POSSIBLE.

MISCELLANEOUS NOTES:

1. PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, ATTN: CONSTRUCTION PROJECT MANAGER. PHONE NO. 848-1500.
2. COMPLIANCE WITH U.S. E.P.A. REGULATIONS FOR ALL SOILS DISTURBANCES, EROSION CONTROL AND TEMPORARY DISCHARGE MEASURES SHALL BE PART OF THE "WORK AS REQUIRED" UNDER THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATIONS FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITES. THE WORK CONSISTS OF DEVELOPING A SITE-SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THIS WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR, DURING CONSTRUCTION PERIOD. SPECIFICS OF SCOPE SHALL BE AS DETAILED IN THE CITY OF ALBUQUERQUE SUPPLEMENTAL TECHNICAL SPECIFICATION "SECTION 630-NPDES COMPLIANCE".
3. REMOVE FROM THE PROJECT AREA ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CONSTRUCTION ENGINEER.
4. COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. IT MAY BE REQUIRED TO RESCHEDULE 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.
5. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING AND SURVEYING FROM COORDINATES, GRADES, AND BENCH MARKS SHOWN ON THE PLANS, OR MODIFIED IN THE FIELD BY THE ENGINEER, FOR ALL ITEMS OF WORK WHICH REQUIRE CONSTRUCTION STAKING AND SURVEYING. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO REESTABLISH ANY MISSING REFERENCE POINTS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO, ALL SEWER LINES, WATER LINES, SERVICE LINES, AND IRRIGATION STRUCTURES. ALL COSTS INCURRED IN PROVIDING SUCH CONSTRUCTION STAKING AND SURVEYING WORK SHALL BE PAID AS SHOWN IN THE BID PROPOSAL.
6. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY OR EASEMENTS TO PRESERVE EXISTING VEGETATION, FENCES, WALLS, AND PRIVATE PROPERTY. OVERNIGHT PARKING OF EQUIPMENT AND/OR STORAGE OF MATERIALS IS NOT ALLOWED EXCEPT BY PERMISSION OF OWNER. RESTORATION OF PRIVATE IMPROVEMENTS WILL BE AT THE CONTRACTOR'S EXPENSE.
7. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER WILL BE NOTIFIED. THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT (505) 827-6320. WORK MAY PROCEED AFTER COORDINATION WITH SHPO IS COMPLETE.
8. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. SALVAGE OF ANY MATERIAL SHALL BE IDENTIFIED BY THE COUNTY PROJECT MANAGER. WORK MATERIALS SHALL BE DISPOSED OF IN COUNTY APPROVED WASTE AREAS SECURED BY AND AT THE EXPENSE OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE THE CONSTRUCTION ENGINEER WITH "AS-BUILT" INFORMATION INCLUDING SURVEYED ELEVATIONS FOR ALL FACILITIES PRIOR TO FINAL CONTRACT PAYMENT.
10. CONTRACTOR SHALL PLACE EMD MARKERS AT ALL LINE STUBOUTS UNLESS LINES END IN A VALVE.
11. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
12. ~~SEQUENCING OF CONSTRUCTION: THIS PROJECT MATCHES WITH OTHER PROJECTS THAT ARE UNDER CONSTRUCTION WITHIN THE SAME CONSTRUCTION TIME PERIOD AS THIS PROJECT. IN PARTICULAR, RESERVOIR SITE ROUGH GRADING (FOR DRAINAGE) AND CONSTRUCTION OF THE DETENTION POND, AND POND PIPING OUTLET UNDER THIS CONTRACT SHALL BE PERFORMED FIRST, WITHIN THE INITIAL 30 DAYS AFTER NOTICE TO PROCEED UNDER THIS CONTRACT. AFTER ROUGH GRADING AND POND CONSTRUCTION ARE COMPLETED, THE RESERVOIR SITE CONTRUCTION LIMITS SHALL REVERT BACK TO THE BORDER BETWEEN THE SOUTHWEST EDGE OF THE SITE AND THE 50-FOOT WIDE ROAD R.O.W. FOR ALL OTHER CONSTRUCTION, THE LIMITS OF WORK SHALL REMAIN AT THIS LOCATION.~~ (SEE *12)
13. ~~CONSTRUCTION COORDINATION:~~
~~(A) THIS CONTRACT WILL CONNECT WITH BID PACKAGE D-BOOSTER/TREATMENT SYSTEMS" (COA #760684), AT THE NORTHERN END AND THE TEMPUR-PEDIC DRIVE CONSTRUCTION AT THE SOUTH END. COORDINATION WITH THOSE PROJECTS IS REQUIRED FOR ALL CONNECTIONS.~~

~~(B) THIS CONTRACT WILL FIRST CONSTRUCT THE DETENTION POND, OUTLET PIPE AND ROUGH GRADING OVER PORTIONS OF THE RESERVOIR SITE, WHICH IS TO BE OCCUPIED BY BID PACKAGE D (COA #760684) AFTER THE WORK IS COMPLETE. THIS WORK SHALL BE COMPLETED WITHIN THE FIRST 30 DAYS OF CONTRACT. COORDINATION WITH BID PACKAGE D IS REQUIRED.~~

~~(C) THIS CONTRACT IS CONSTRUCTING THE WATER, SEWER, AND ROADWAY WITHIN THE ACCESS R.O.W TO THE RESERVOIR SITE. THIS CONTRACT SHALL GRADE AND MAINTAIN A 20-FOOT WIDE ACCESS CORRIDOR ON ONE SIDE OF CONSTRUCTION AT ALL TIMES FOR THE OTHER CONTRACTORS TO ACCESS THE RESERVOIR SITE. WESTLAND SHALL GRANT TEMPORARY ACCESS PERMIT FOR ALL OR PORTIONS OF THIS ACCESS CORRIDOR, BUT ANY PORTION OUTSIDE THE PERMANENT R.O.W SHALL BE RE-GRADED AND PUT BACK TO ITS ORIGINAL CONDITION AND RE-SEEDED TO MATCH NATIVE SPECIES AS MUCH AS POSSIBLE.~~ (SEE *13)
14. TOTAL CONTRACT TIME FOR THIS PROJECT IS ~~110~~ CALENDAR DAYS.
120

* NOTES AS MODIFIED PER ADDENDUM #1

** NOTES AS ADDED PER ADDENDUM #1

COORDINATION WITH PUBLIC

SPECIAL NOTICES:

HAND DELIVER SPECIAL NOTICES TO EACH RESIDENCE OR BUSINESS ADJACENT TO THE CONSTRUCTION AREA AND TO OTHERS WHICH MAY BE AFFECTED BY THE CONSTRUCTION ACTIVITIES. SPECIAL NOTICES ARE TO INFORM RESIDENTS AND BUSINESSES IN WRITING WHENEVER ACCESS, UTILITY SERVICES OR OTHER SERVICES TO THEIR PROPERTY MAY BE IMPAIRED.

** 15. CONTRACTOR SHALL INSTALL CAMPOS WELL TEMPORARY CONNECTION, WHICH CONSISTS OF A 6-INCH WELL LINE FROM CAMPOS WELL TO CONNECTION WITH 12-INCH WATERLINE (TEMPORARY CONNECTION) IN TEMPUR-PEDIC PKWY AT STATION 18+03+/-, THENCE SOUTH IN ROADWAY, VIA THE 12-INCH WATERLINE TO CONNECTION BOUNDARY WITH 12-INCH TEMPUR-PEDIC LINE BY OTHERS. THIS WORK SHALL BE COMPLETED UNDER CRITICAL PHASE CONSTRUCTION WITHIN THE FIRST 35 CALENDAR DAYS AFTER BEGINNING OF CONTRACT.

** 16. CONTRACTOR SHALL INSTALL AND MAINTAIN A TEMPORARY ACCESS ROAD, 20 FEET IN WIDTH, ALONG THE ALIGNMENT OF THIS WORK, WHICH CONSISTS OF A TEMPORARY GRADED AND COMPACTED, NON-SURFACED ROADWAY FROM THE SOUTHERN END OF PROJECT, AT TEMPUR-PEDIC PKWY AT STATION 10+00 +/-, THENCE NORTH ALONG THE PERMANENT ROADWAY/WATER/SEWER ALIGNMENTS TO CONNECTION WITH THE RESERVOIR SITE DRIVEWAY BY OTHERS. THIS ALIGNMENT IS FOR THE BENEFIT OF UNIMPEDED ACCESS TO THE RESERVOIR SITE FOR OTHER CONTRACTORS, AND MAY BE EITHER, MOVEABLE AND WITHIN THE EXISTING ROADWAY EASEMENT, OR ALONG EITHER SIDE OF CONSTRUCTION. TEMPORARY EASEMENTS FOR THIS ACCESS ROAD SHALL BE PROVIDED BY THE OWNER, IF SEPARATE LOCATION IS DESIRED. DISTURBED SURFACES SHALL BE RETURNED TO THE NATURAL CONDITION AND RESEEDED, AT THE COMPLETION OF CONSTRUCTION. THIS WORK SHALL BE COMPLETED UNDER CRITICAL PHASE CONSTRUCTION WITHIN THE FIRST 35 CALENDAR DAYS AFTER BEGINNING OF CONTRACT.

** 17. SEEDING SHALL BE PROVIDED FOR ALL DISTURBED SURFACES NOT BEING GRAVELED. SEEDING SHALL BE PROVIDED AS "TYPE A-NATIVE SEED MIX" PER SECTION 632 OF THE NMDOT STANDARD SPECIFICATIONS. PAYMENT SHALL BE PER ACRE, SEEDED AND MULCHED AS PER SPECIFICATIONS.

SYMBOL LEGEND

—WS—	PROPOSED WELL SUPPLY LINE
—W—	PROPOSED WATERLINE
WM	WATER METER
WV	WATER VALVE
W	WATER MANHOLE
	FIRE HYDRANT
W	WELL
—SAS—	PROPOSED SANITARY SEWER
	CLEAN OUT
D	DRAINAGE MANHOLE
S	SANITARY MANHOLE
—P—P—	POWER LINE
EM	ELECTRIC METER
E	ELECTRIC BOX
	TRANSFORMER
	CONTROL POINT
SB	SIGNAL BOX
	LOCATION MARKER
T	TELEPHONE RISER
	POWER POLE
P	POWER PEDESTAL
—BUR_TELE—	BURIED TELEPHONE LINE
V.T	VAULT
—SD—	PROPOSED STORM DRAIN
	DROP INLET
	CURB INLET
	GUARD RAIL
—X—	CHAIN LINK\WIRE FENCE
—▫—▫—	WALL
——--——	RIGHT OF WAY
GM	GAS METER
—2_HP GAS—	2" GAS LINE
GV	GAS VALVE

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION		
CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S FIELD CHANGE BY		DATE
FIELD VERIFICATION BY		DATE
AS-BUILTS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

SURVEY INFORMATION		
BENCH MARKS		
ACS 1-K5		
(NO PUBLISHED DESCRIPTION AVAILABLE)		
COORDS. 1483795.076,1333607.752 (NAD 1927)		
~~SCOF = 0.9999544427~~		
ELEVATION = 5794.218 FT. (NAVD 29)		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/31/06

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	MAY. 05
		DRAWN BY	MAY. 05
		CHECKED BY	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
GENERAL NOTES AND LEGEND

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A #760683	K4, K5	2	25

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY

SCANNED BY MESA REPRO

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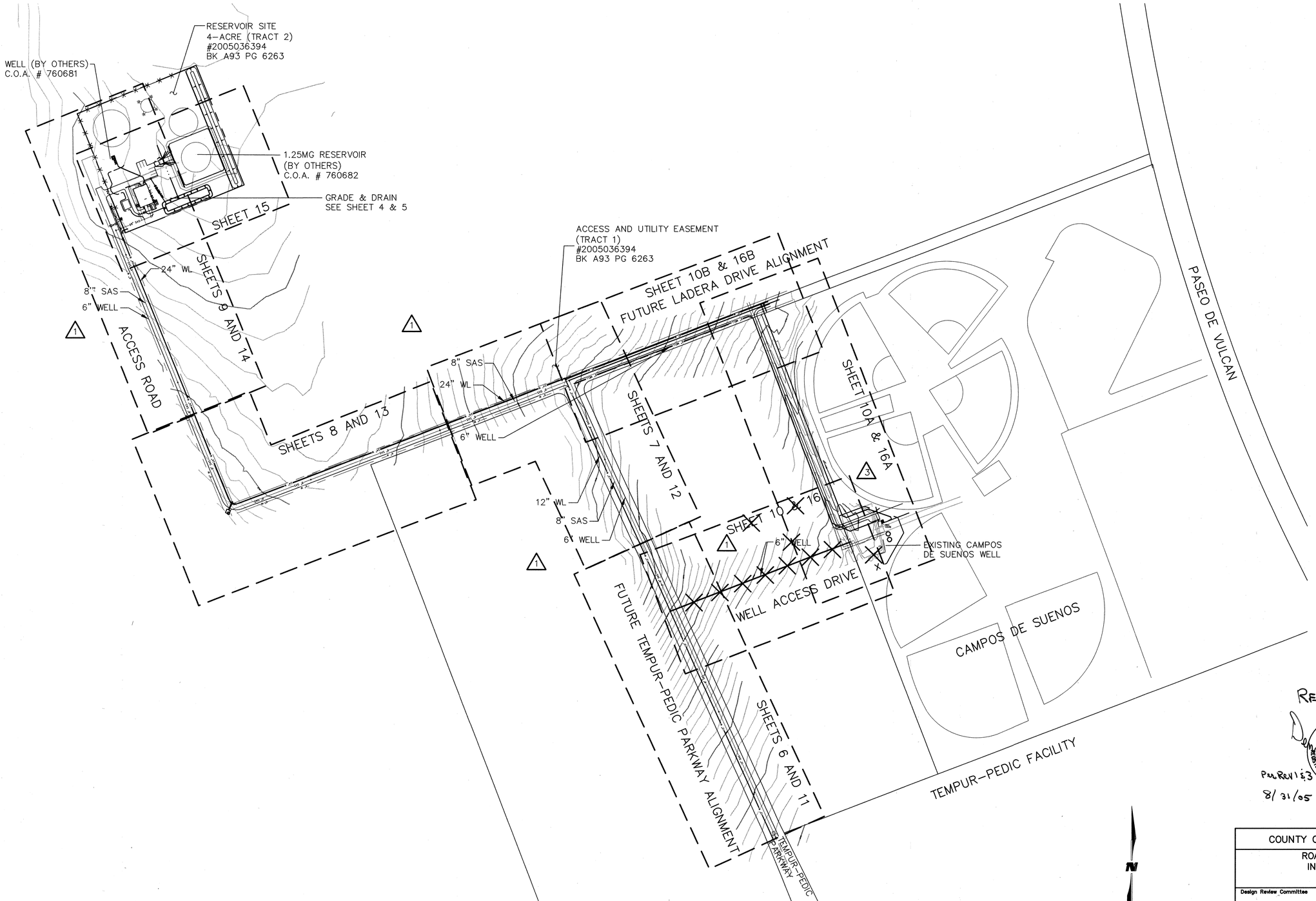

SCANNED BY
MESA REPRO

REVISED

PW Revised
8/31/05

OVERALL PLAN LAYOUT
SCALE: 1:150

RECORD DRAWING
DATE 5/22/06

Scale: 1:150

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

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WILSON & COMPANY

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY: DATE
INSPECTED BY: DATE
ACCEPTANCE BY: DATE
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS

ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~966F — 0.03906611417~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/28/05

NO.	DATE	REMARKS	BY
3	8/25/05	REALIGN WELL & WATER LINES	CRU
1	8/3/05	LABEL SIZES OF PIPING	DAH

REVISIONS

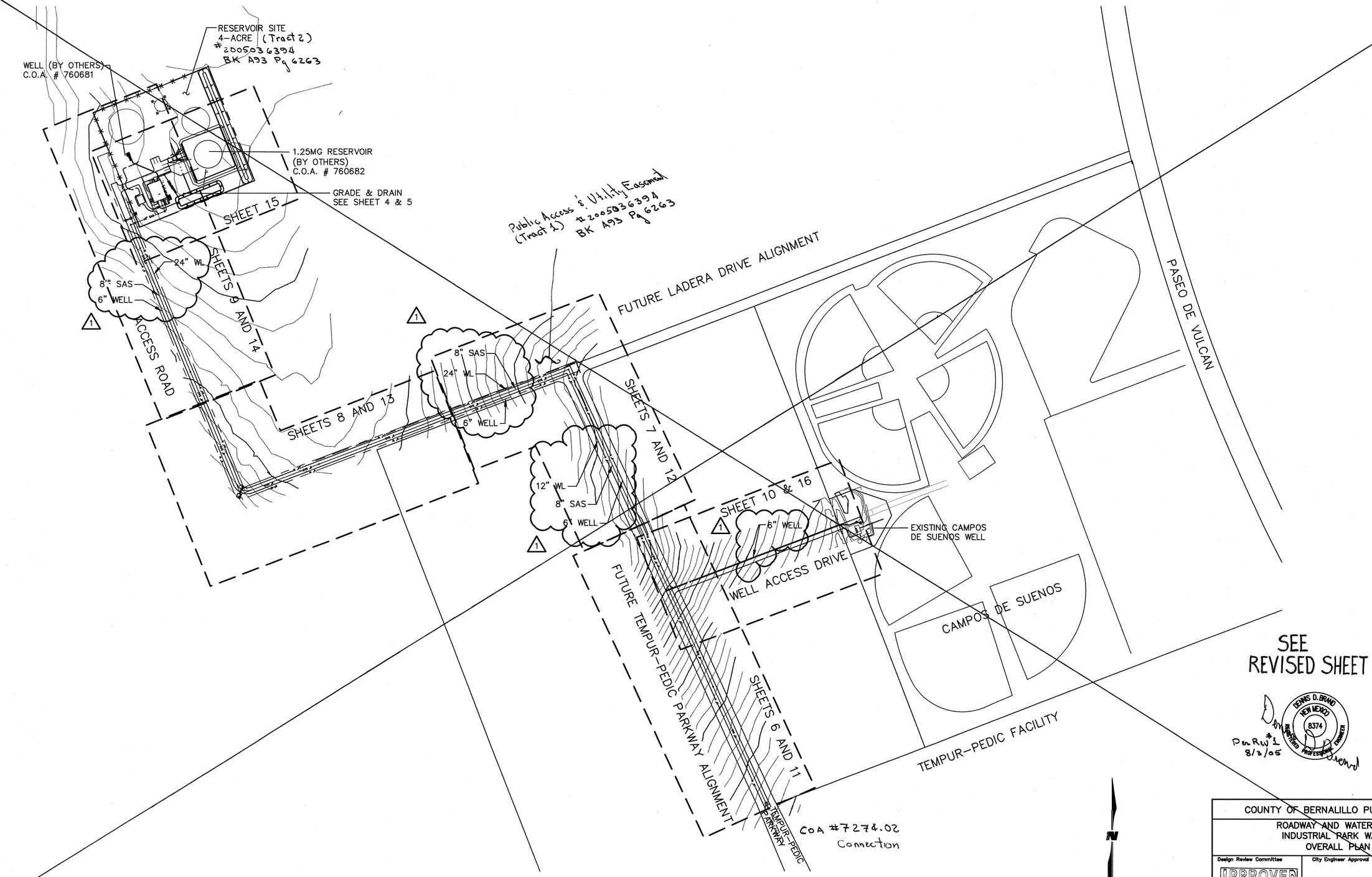
WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB MAY. 05
DRAWN BY DAH MAY. 05
CHECKED BY DDB MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
OVERALL PLAN LAYOUT

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO. BCPW #TS 04-07-C C.O.A #760683
MAP NO. K-4, K-5
SHEET 3 OF 25



SCANNED BY
MESA REPRO

SEE
REVISED SHEET

DENNIS D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
PE Rev #1
8/3/05

OVERALL PLAN LAYOUT
SCALE: 1:150

Scale: 1:150

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

X:\Public\PROJECTS\X4210019\WS\Sheets\Layout Sht.dwg 8/3/2005 10:11:13 AM MST

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STARTED BY:	DATE
WORK ACCEPTED BY:	DATE
ACCEPTANCE BY COUNTY:	DATE
VERIFICATION BY:	DATE
DRAWINGS COMPILED BY:	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~COOF = 0.0999864427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DENNIS D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/28/05

NO.	DATE	REMARKS	BY
1	8/3/05	LABEL SIZES OF PIPING	DAH

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB MAY. 05
DRAWN BY DAH MAY. 05
CHECKED BY DDB MAY. 05

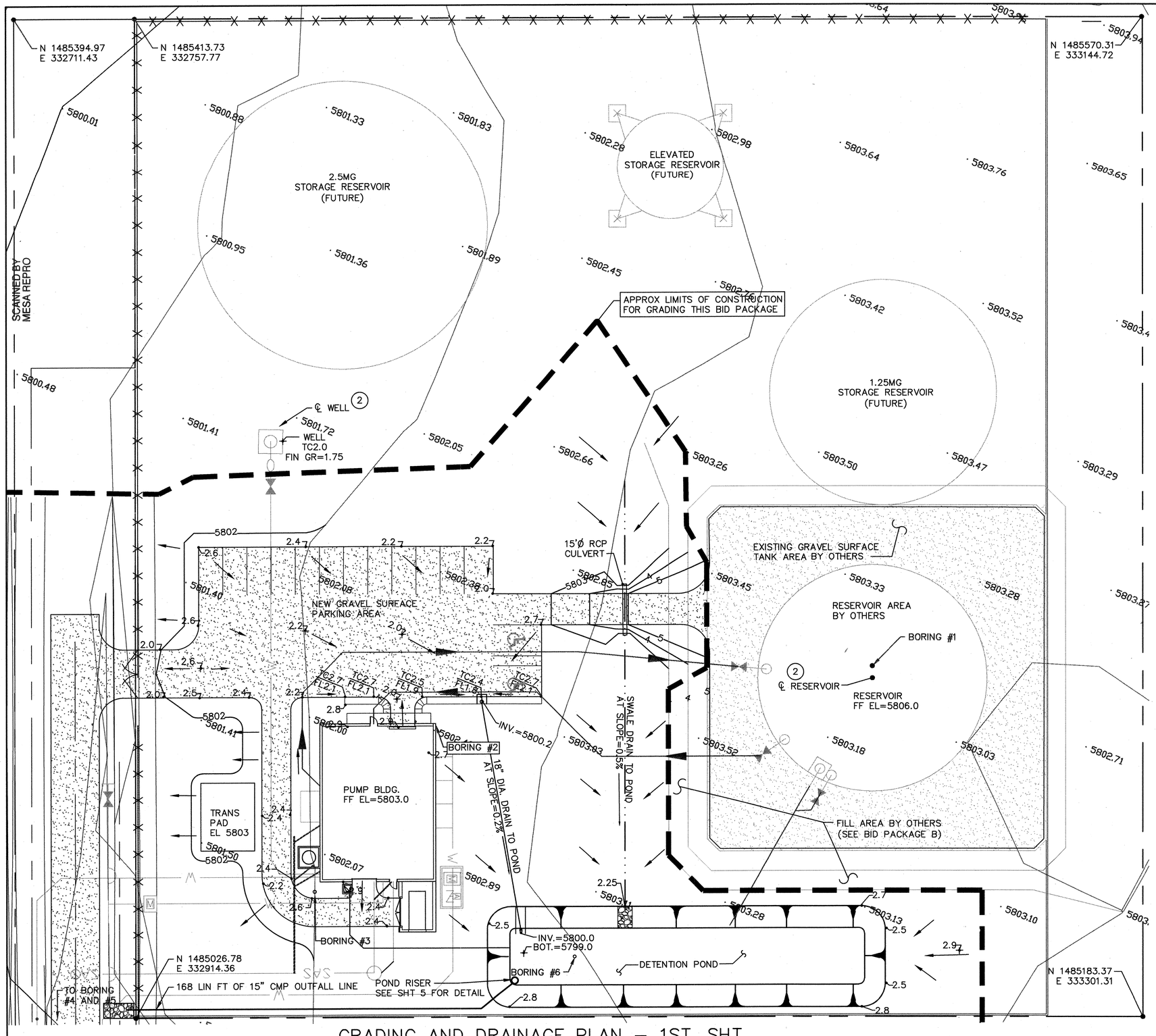
COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
OVERALL PLAN LAYOUT

Design Review Committee: APPROVED AUG 29 2005 DESIGN
City Engineer Approval
Last Design Revision

PROJECT NO. BCPW #IS 04-07-C C.O.A #760683
MAP NO. K-4, K-5
SHEET 3 OF 25

WILSON & COMPANY



GRADING AND DRAINAGE PLAN – 1ST. SHT.

SCALE: 1:20

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DRAINAGE REPORT

SITE LOCATION: The proposed Industrial Park Water System (IPWS) will be to the west of Paseo Del Vulcan and north of Interstate 40. It will be constructed in the Town of Atrisco Grant. Proposed construction includes grading, a gravel parking lot, detention pond, plunge pool, a building structure and up to three (2 future) ground-level reservoirs with the possibility of an elevated reservoir, gravel driveways and tempur-pedic road to the site with a roadside swale.

METHODOLOGY: The AHYMO computer program was used in the hydrology and detention pond analysis of the site. A principal design storm of 100-year, 6-hour event was used.

UNDEVELOPED CONDITIONS: The undeveloped 12.48-acres property is located northwest of the Westland Business Center. The property is nearly bare with a sparse outcropping of native plants. The terrain in the area is very flat (< 0.5%), and the majority appears to drain in a southwesterly direction. Concentrated flow is not evident. The AHYMO model lists the project area in Bernalillo County. Table 1 summarizes the conditions of the undeveloped site. *

TABLE 1 – UNDEVELOPED CONDITIONS

BASIN	AREA (ac)	%A	%B	%C	%D	V_{1440} (ac-ft)	Q_{100} (cfs)
1	1.82	100	0	0	0	0.061	1.9
2	7.24	100	0	0	0	0.242	8.5
3	1.70	100	0	0	0	0.057	2.0
4	1.72	100	0	0	0	0.057	2.0
TOTAL	12.48	100	0	0	0	0.417	14.4

DEVELOPED CONDITIONS: The new IPWS site will be approximately 4.00 acres. The new water storage tank and booster/treatment building, will be approximately 6,504-sf and 3,456-sf, respectively. The remainder of the current development of the lot will consist of a gravel roadway, parking and detention pond. The proposed building and development will slightly increase the amount of runoff from the site. Roof drains will direct building runoff toward the proposed parking lot. In order to maintain historical runoff rates, the site will be graded to follow historical patterns and convey runoff through a swale to the proposed detention pond. Table 2 summarizes the post-development conditions of the site.

TABLE 2 – DEVELOPED CONDITIONS

BASIN	AREA (ac)	%A	%B	%C	%D	V_{1440} (ac-ft)	Q_{100} (cfs)
1	1.82	0	0	0	0	0.138	4.1
2	7.24	0	0	0	0	0.269	9.3
3	1.70	0	0	0	0	0.061	2.2
4	1.72	0	0	0	0	0.118	3.2
TOTAL	12.48	80	0	12	8	0.586	18.8

The proposed detention pond will be approximately 2.5 ft deep with bottom dimensions of 24' X 165' and uses an 18" riser pipe with a 12" tee to compensate for the runoff generated by the development. Basins 1 and 4 contribute their runoff to the pond. The riser will have 8-4" diameter holes and will outflow a peak flow of 2.0 cfs. This gives just over a foot of freeboard at the peak stage elevation. The outflow pipe will tie to a 2 ft bottom width ditch with 3:1 tie sideslopes that runs alongside the tempur-pedic road. The roadside ditch drains to a culvert in order to convey the runoff southwest of the site to maintain historical drainage patterns. A 1 ft deep rip-rap plunge pool with 3:1 tie slopes and 5' X 5' bottom dimensions will also be utilized at the end of the culvert to prevent erosion problems. Table 3 summarizes the post-development conditions of the development with pond.

TABLE 3 – DEVELOPED CONDITIONS WITH POND

BASIN(S)	AREA (ac)	Q_{100} IN POND (cfs)	Q_{100} OUT POND (cfs)	Q_{100} w/ POND (cfs)
1 + 4	3.54	7.3	2.0	2.0
2	7.24	-----	-----	9.3
3	1.70	-----	-----	2.2
TOTAL	12.48	7.3	2.0	13.5

CONCLUSION: The proposed development and detention pond will decrease the runoff to the proposed culvert (located at the point of concentration of basins 2 and 3) to 0.9-cfs less than the undeveloped condition for the 100-year flood event which allows developed flows to be less than undeveloped flows. The improvements will have only minor effects on the current drainage patterns.

* See sheet 5 for drainage area designations.

GENERAL NOTES:

1. SITE GRADING: ALL ALL SITE GRADING TO MEET THE GRADING AND DRAINAGE PLAN WITHIN THE APPROXIMATE LIMITS OF CONSTRUCTION FOR THIS BID PACKAGE "C" SHALL BE THE RESPONSIBLITY OF THIS CONTRACT. THIS WORK SHALL INCLUDE ONE–TIME GRADING FOR THE PUMP BUILDING, PARKING AREA AND DRAINAGE SWALES AS SHOWN. THE DETENTION POND OUTFALL PIPE, 15" DIA. TANK DRIVE CULVERT, AND 18" DIA. PARKING LOT DRAIN SHALL BE COMPLETED BY THIS CONTRACT. HOWEVER NO OTHER SUB–SURFACE PIPING AND NO GRAVEL SURFACE SHALL BE PROVIDED WITHIN THE RESERVOIR\PUMPING BUILDING SITE UNDER THIS PACKAGE.
2. ℄ RESERVOIR (PACKAGE B) AND WELL (PACKAGE A). BY OTHERS.

SCALE: 1:20

RECORD DRAWING
DATE 5/22/06

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

AS–BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
FIELD ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

BENCH MARKS
ACS 1–K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.0999305111127~~
ELEVATION = 5794.218 FT. (NAVD 29)

MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENNIS D. BRAND — NEW MEXICO — 9374 — REGISTERED PROFESSIONAL ENGINEER
5/18/05

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	MAY. 05
		DRAWN BY	MAY. 05
		CHECKED BY	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

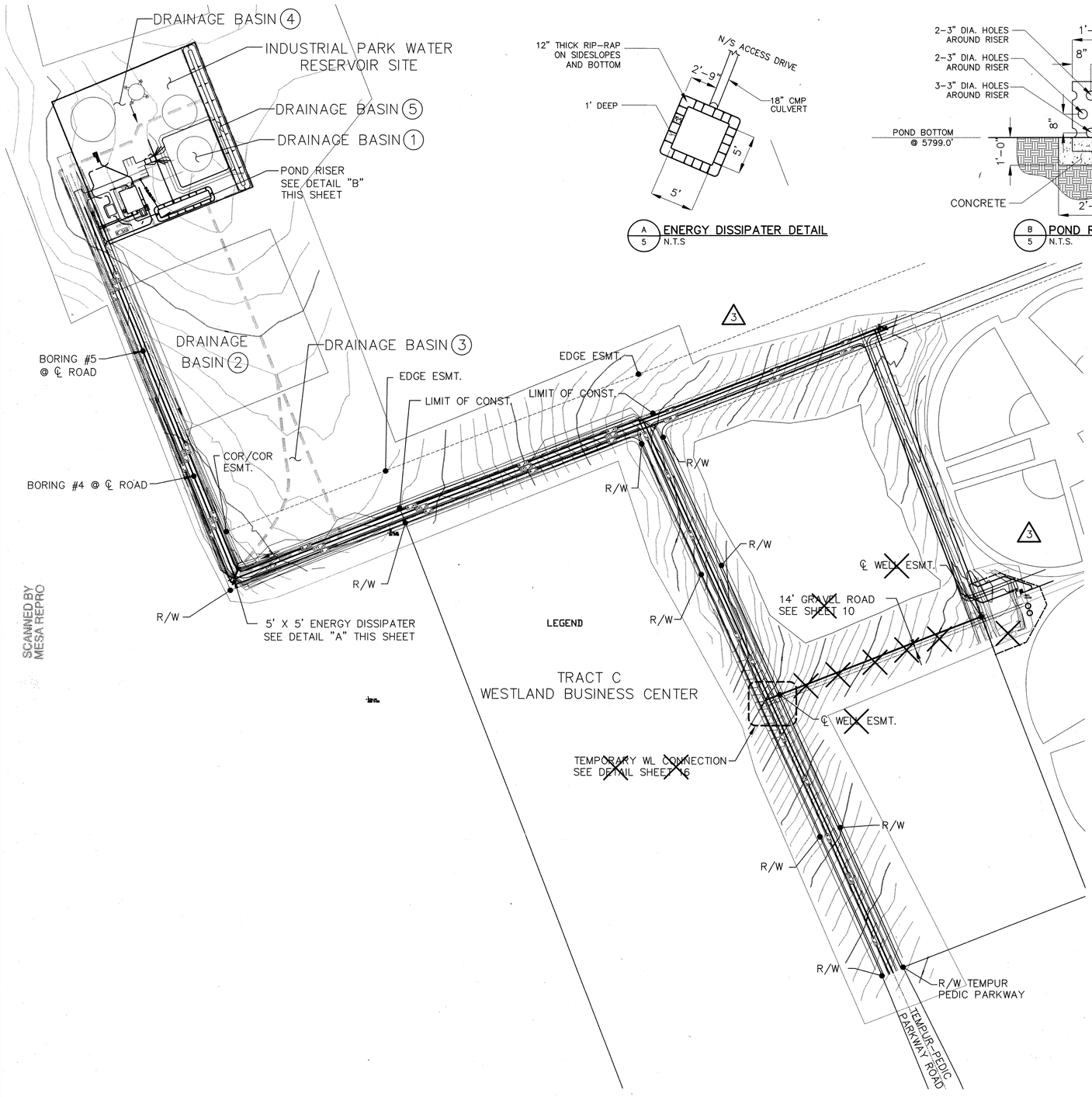
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
GRADING AND DRAINAGE PLAN – 1ST. SHT.

Design Review Committee: APPROVED — DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

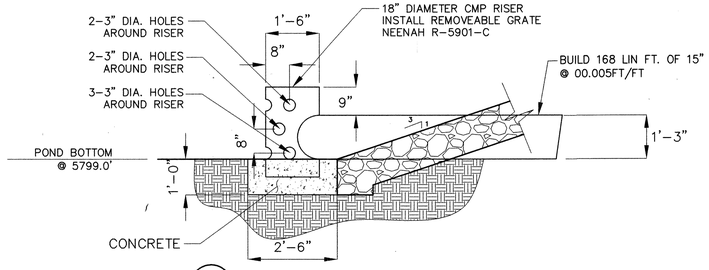
PROJECT NO.	BCPW #TS 04–07–C C.O.A #760683	MAP NO.	K–4, K–5	SHEET	4	OF	25

WILSON & COMPANY

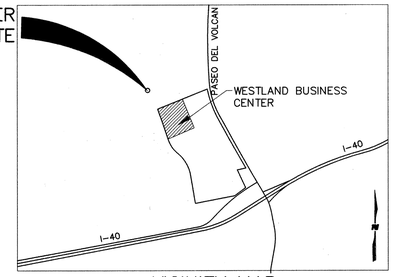
INDUSTRIAL PARK WATER RESERVOIR SITE



A/5 ENERGY DISSIPATER DETAIL
N.T.S



B/5 POND RISER DETAIL
N.T.S.



VICINITY MAP
SCALE: 1:1000
ZONE ATLAS MAP K-5, K-6

LEGAL DESCRIPTION

BEING AN UN-PLATTED AREA OF LAND CONTAINING 4.00 ACRES MORE OR LESS, WITHIN THE TOWN OF ATRISCO GRANT, IN PROJECTED SECTION 23, TOWNSHIP 10 NORTH, RANGE 1 EAST OF THE NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO: SAID AREA TO BE FUTHER DESCRIBED BY METES AND BOUNDS SURVEY AS REQUESTED BY COUNTY OF BERNALILLO.

BENCH MARK

NGS BENCH MARK DISK STAMPED" R-424 RESET 1984" STRUCTURE WEST OF PASEO DEL VOLCAN OVERPASS SET IN THE SOUTHEAST OF THE NORTHWEST END OF THE SOUTHWEST CONCRETE ABUTMENT OF THE WESTBOUND BRIDGE OF INTERSTATE 40 GEOGRAPHIC POSITION (NAD 83), IN FEET N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X = 1,478,146 Y = 1,478,770, ELEVATION = 5727.75 NAVD 88, IN FEET

GRADING NOTES

1. ALL GRADING AND CONSTRUCTION UNDER THIS PLAN TO BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, AS MODIFIED BY THE COUNTY TECHNICAL PROVISIONS
2. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
3. PAVING/ROADWAY GRADES SHALL BE +/-.05 FT. FROM SHOWN PLAN ELEVATIONS.
4. PADS SHALL NOT VARY FROM A TRUE HORIZONTAL PLANE BY MORE THAN +/-.01 FOOT AT ANY POINT. THIS TRUE PLANE SHALL NOT VARY FROM THE SHOWN PAD ELEVATION BY +/-.02 FOOT, UNLESS PERMITTED BY OWNER.
5. CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS AND GRADING OPERATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS AND INSPECTION APPROVALS NECESSARY FOR THE CONSTRUCTION OF THESE FACILITIES AND ALL GRADING OPERATIONS.
7. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES AS SHOWN IN SWPPP SHALL BE INCIDENTAL TO THE PROJECT COST.
8. UNLESS OTHERWISE SHOWN, DRAINAGE SWALES SHALL HAVE A MINIMUM 1% SLOPE IN THE DIRECTION OF FLOW.
9. ALL SCARIFYING, EXCAVATION, AND COMPACTION, WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.

ENGINEER'S CERTIFICATION

I, DENNIS D. BRAND, HEREBY CERTIFY THAT I PERSONALLY INSPECTED THE SITE SHOWN ON THIS PLAN ON 24 JUN 2004, AND AS OF THAT DATE, IT APPEARED THAT NO FILLING, GRADING OR EXCAVATION HAD OCCURRED THEREON SINCE COMPLETION OF THE TOPOGRAPHIC SURVEY USED TO PREPARE THIS PLAN.

I, DENNIS D. BRAND, NMPE #8374, HEREBY CERTIFY THAT THIS GRADING AND DRAINAGE PLAN WAS ASSEMBLED AND COMPLETED UNDER MY SUPERVISION. ANY MODIFICATIONS TO OR REVISIONS OF THIS PLAN WILL BE INCORPORATED INTO THIS PLAN AS FINALIZED.

5/23/06
DENNIS D. BRAND, P.E.

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER

FIELD SURVEYS:

1. PRESERVE OR RELOCATE STAKES THAT SHOW LIMITS OF SITE AND ROADWAY FOR OTHER CONTRACTORS.
2. PRESERVE ℄ TANK AND WELL (AS PER PLANS FOR BID PACKAGE A & B).
3. PRESERVE BORINGS/(SEE SHEET 4).

Revised per Rev 3

RECORD DRAWING
DATE 5/23/06

N

Scale: 1:150

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
CONSTRUCTION ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~666F — 0.00006611427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER 5/23/06

NO.	DATE	REMARKS	BY
3	5/25/05	REALIGN WELL & WATER LINES	CRU

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	DDB MAY. 05
DRAWN BY	DAH MAY. 05
CHECKED BY	DDB MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
GRADING AND DRAINAGE PLAN – 2ND. SHT.

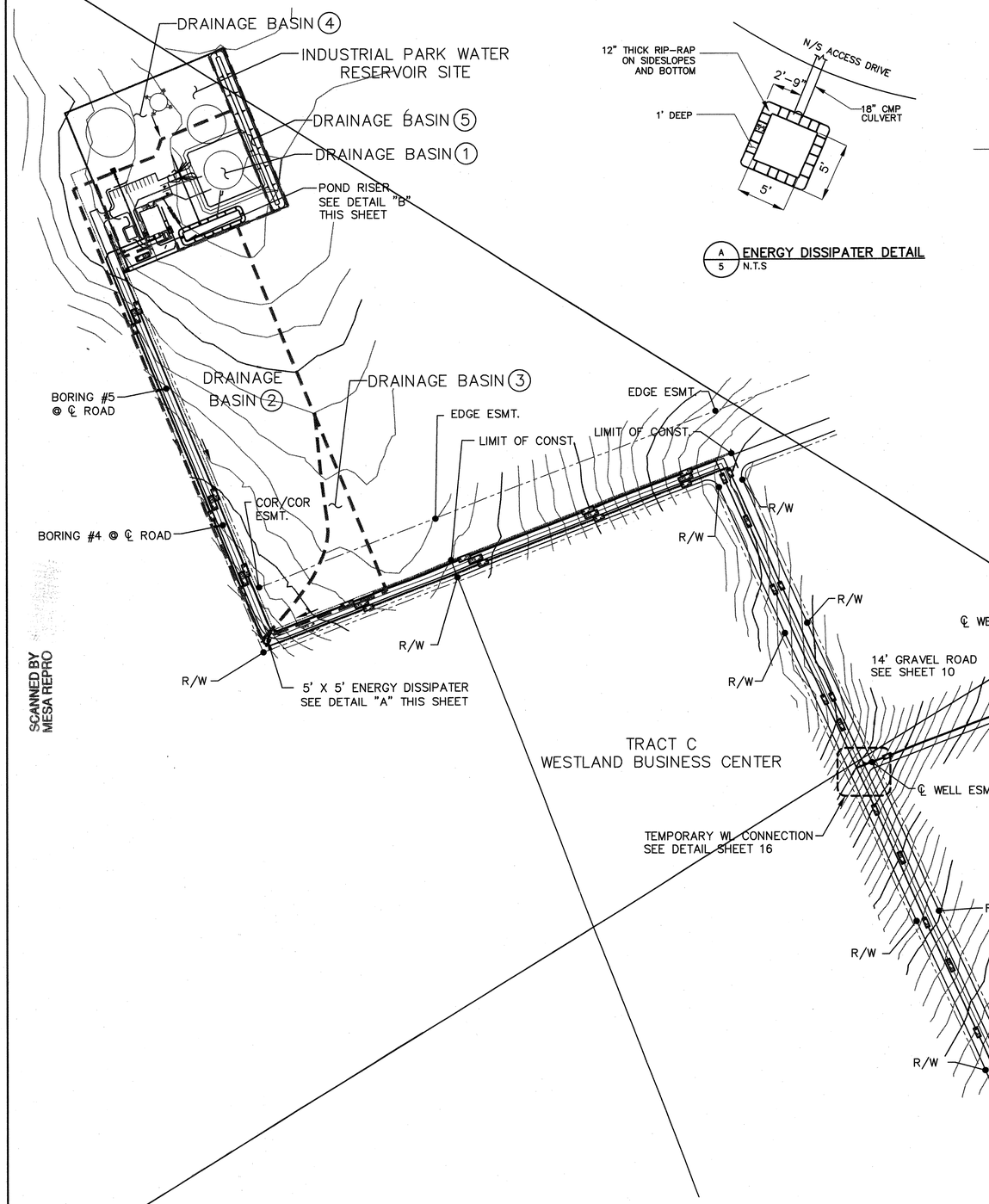
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A #760683	K-4, K-5	5	25

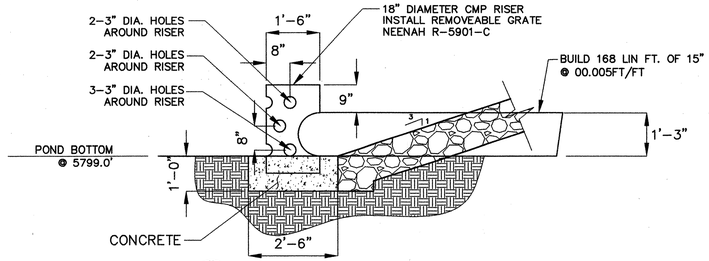
GRADING AND DRAINAGE PLAN – SHT.2
SCALE: 1:150

WILSON & COMPANY

SCANNED BY MESA REPRO

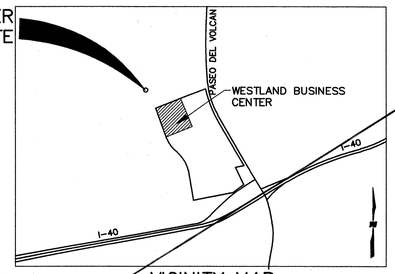


A / 5 ENERGY DISSIPATER DETAIL
N.T.S



B / 5 POND RISER DETAIL
N.T.S.

INDUSTRIAL PARK WATER RESERVOIR SITE



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SCALE: 1:1000
ZONE ATLAS MAP K-5, K-6

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DENNIS D. BRAND, P.E.

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER 5/25/05

FIELD SURVEYS:

1. PRESERVE OR RELOCATE STAKES THAT SHOW LIMITS OF SITE AND ROADWAY FOR OTHER CONTRACTORS.
2. PRESERVE ℄ TANK AND WELL (AS PER PLANS FOR BID PACKAGE A & B).
3. PRESERVE BORINGS/(SEE SHEET 4).

SEE REVISED SHEET

N

Scale: 1:150

GRADING AND DRAINAGE PLAN – SHT.2
SCALE: 1:150

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK VERIFIED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
AS-BUILT VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
COMBINED FACTOR = 0.99990634427
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER 5/25/05

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	MAY. 05
		DRAWN BY	MAY. 05
		CHECKED BY	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
GRADING AND DRAINAGE PLAN – 2ND. SHT.

Design Review Committee | City Engineer Approval | Last Design Revision | No./Date/Ch. | No./Date/Ch.

PROJECT NO. BCPW #TS 04-07-C C.O.A #760683 | MAP NO. K-4, K-5 | SHEET 5 OF 25

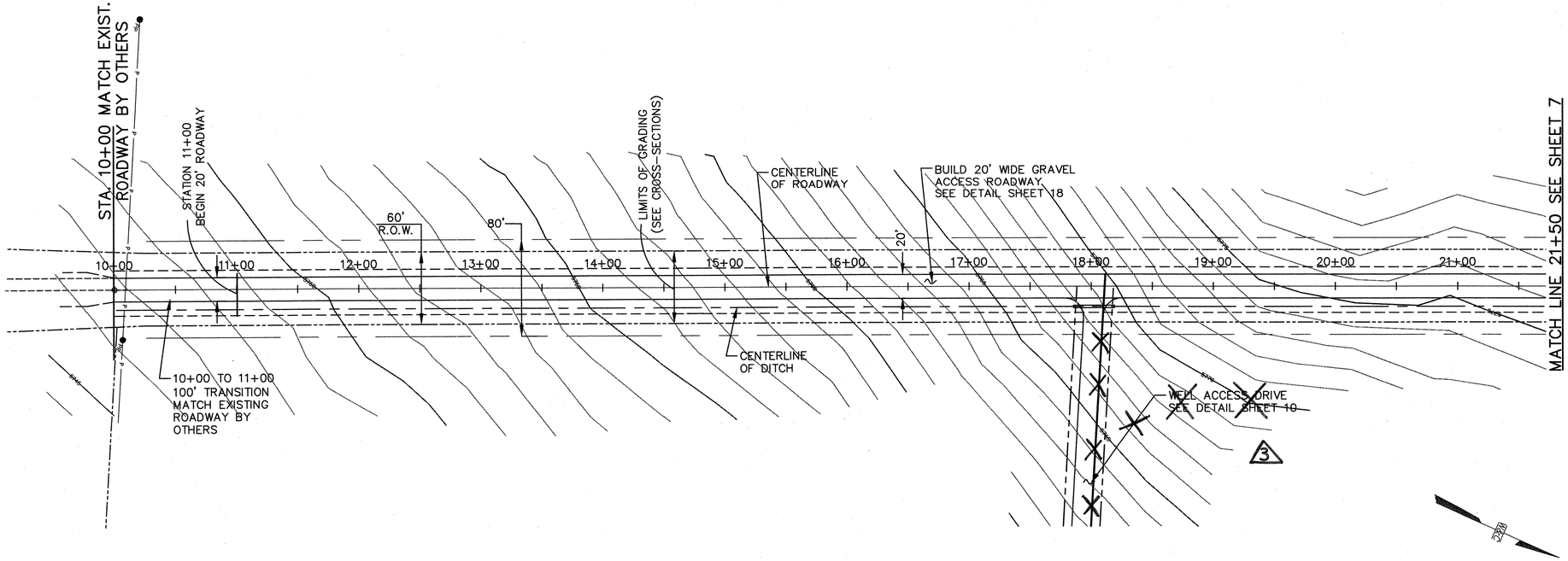
WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY

SCANNED BY MESA REPRO

X:\Public\PROJECTS\X4210019\WS\Sheets\Gradingdrainage.dwg 5/16/2005 4:13:12 PM MDT

SCANNED BY MESA REPRO



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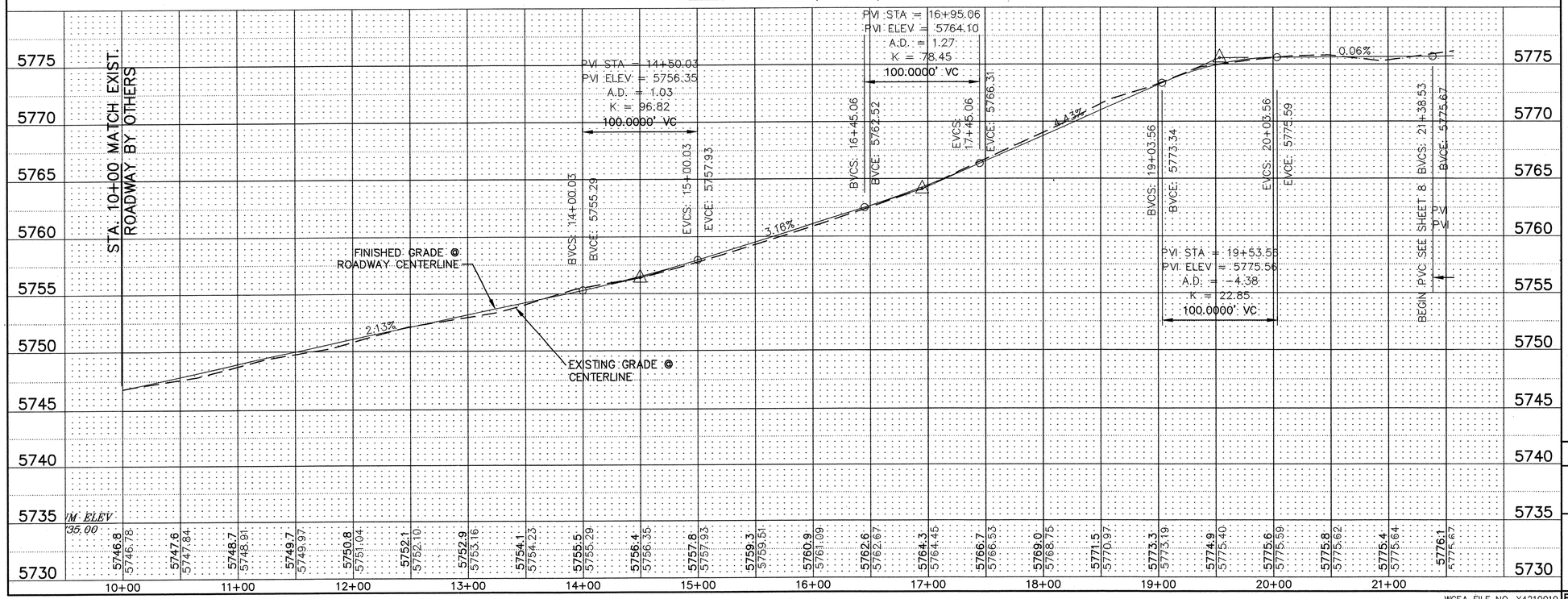


RECORD DRAWING
DATE 6/22/06

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S NOTATIONS BY	DATE
FIELD VERIFICATION BY	DATE
DRAWING CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
ACS 1-K5	
(NO PUBLISHED DESCRIPTION AVAILABLE)	
COORDS. 1483795.076,1333607.752 (NAD 1927)	
~~GEOID = 0.000065644427~~	
ELEVATION = 5794.218 FT. (NAVD 29)	

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
JAMES D. BRAND NEW MEXICO 9374 REGISTERED PROFESSIONAL ENGINEER 5/25/06

NO.	DATE	REMARKS	BY
REVISIONS			

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	DDB	MAY. 05
DRAWN BY	DAH	MAY. 05
CHECKED BY	DDB	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY PLAN AND PROFILE STA. 10+00 – 21+50

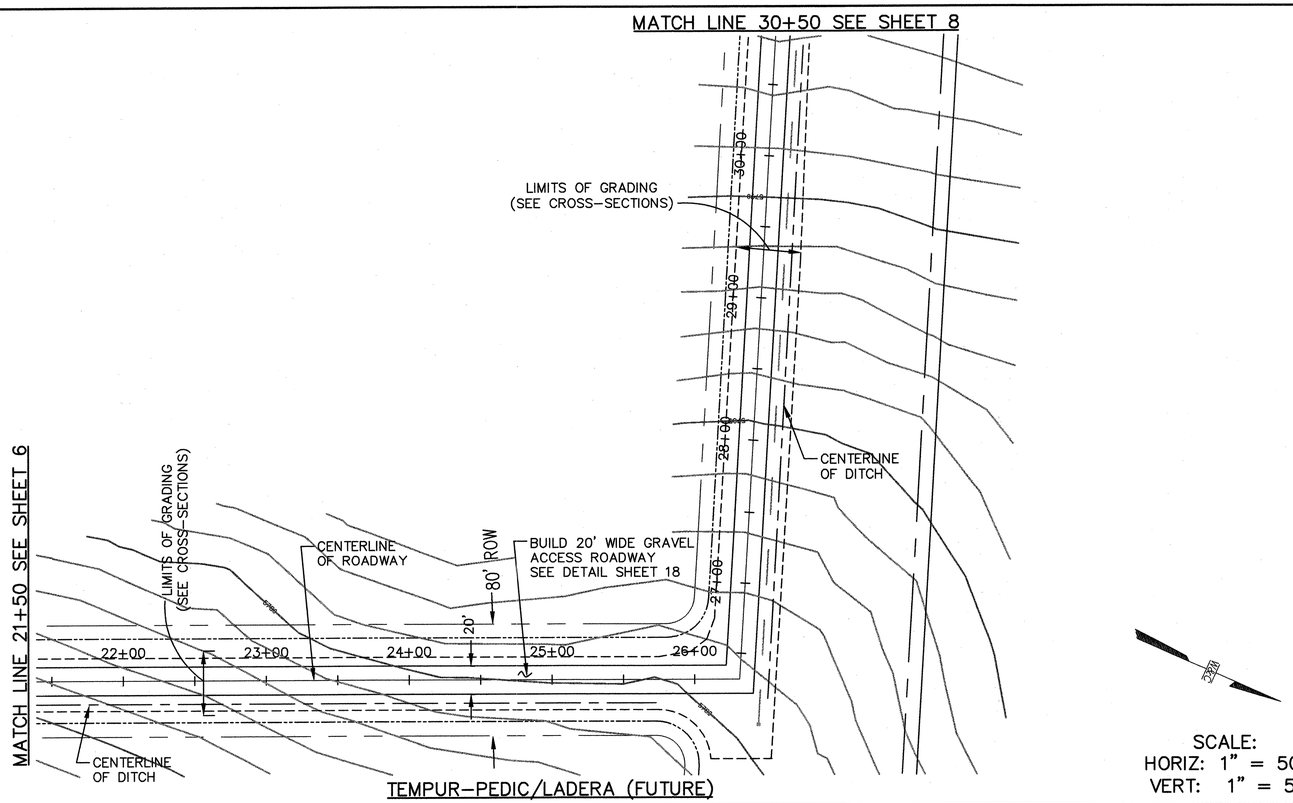
Design Review Committee	City Engineer Approval	Last Design Update		

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A. # 760683	K-4, K-5	6	25

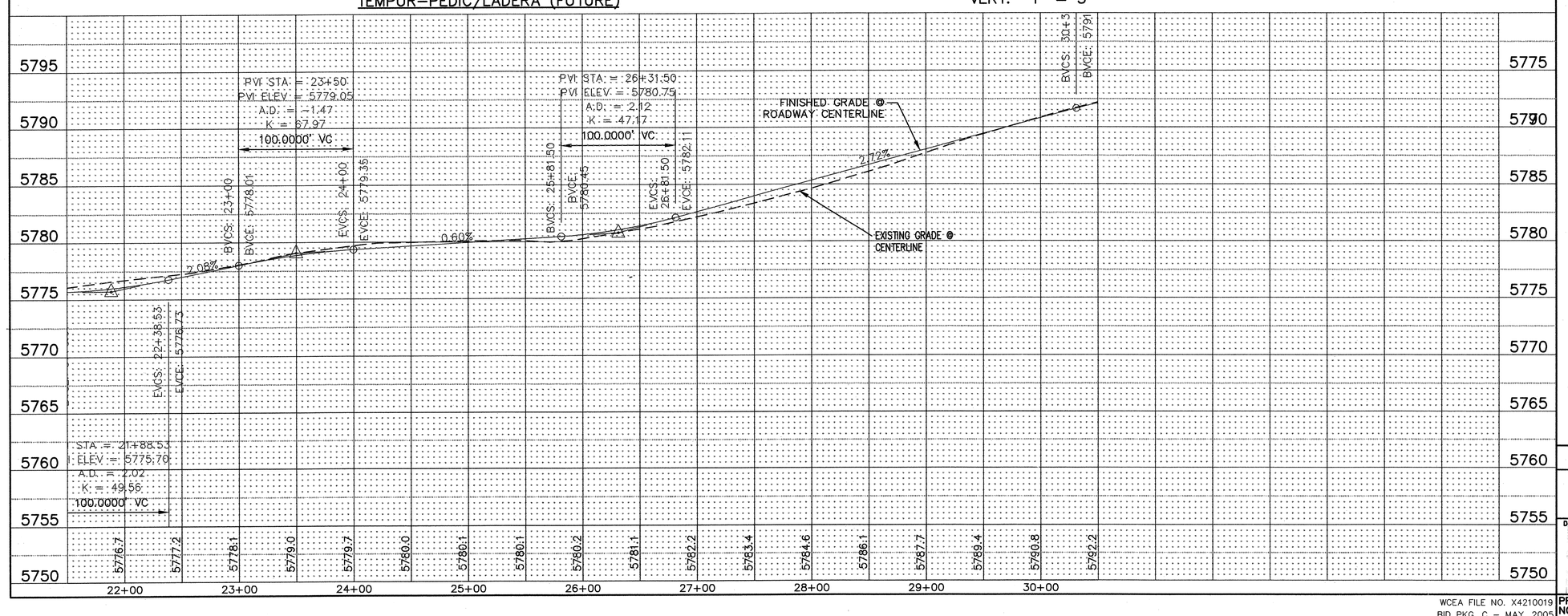
WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY

SCANNED BY
MESA REPRO



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



RECORD DRAWING
DATE 5/22/06

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY PLAN AND PROFILE STA. 21+50 – 30+50

Design Review Committee | City Engineer Approval | Last Design Update

PROJECT NO.	BCPW #TS 04-07-C C.O.A. # 760683	MAP NO. K-4, K-5	SHEET 7	OF 25

WILSON & COMPANY

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTIONS BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~666F = 0.09996544427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
JAMES D. BOWD
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/22/06

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY — DDB — DATE MAY. 05
DRAWN BY — DAH — DATE MAY. 05
CHECKED BY — DDB — DATE MAY. 05

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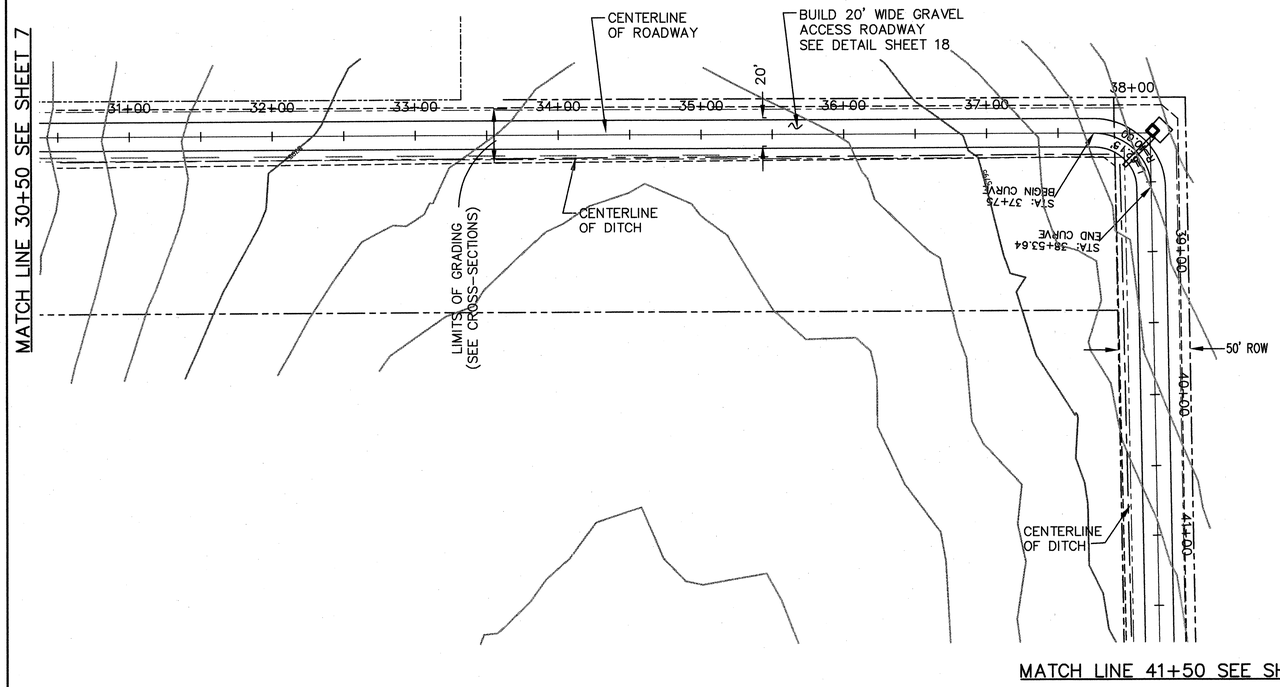

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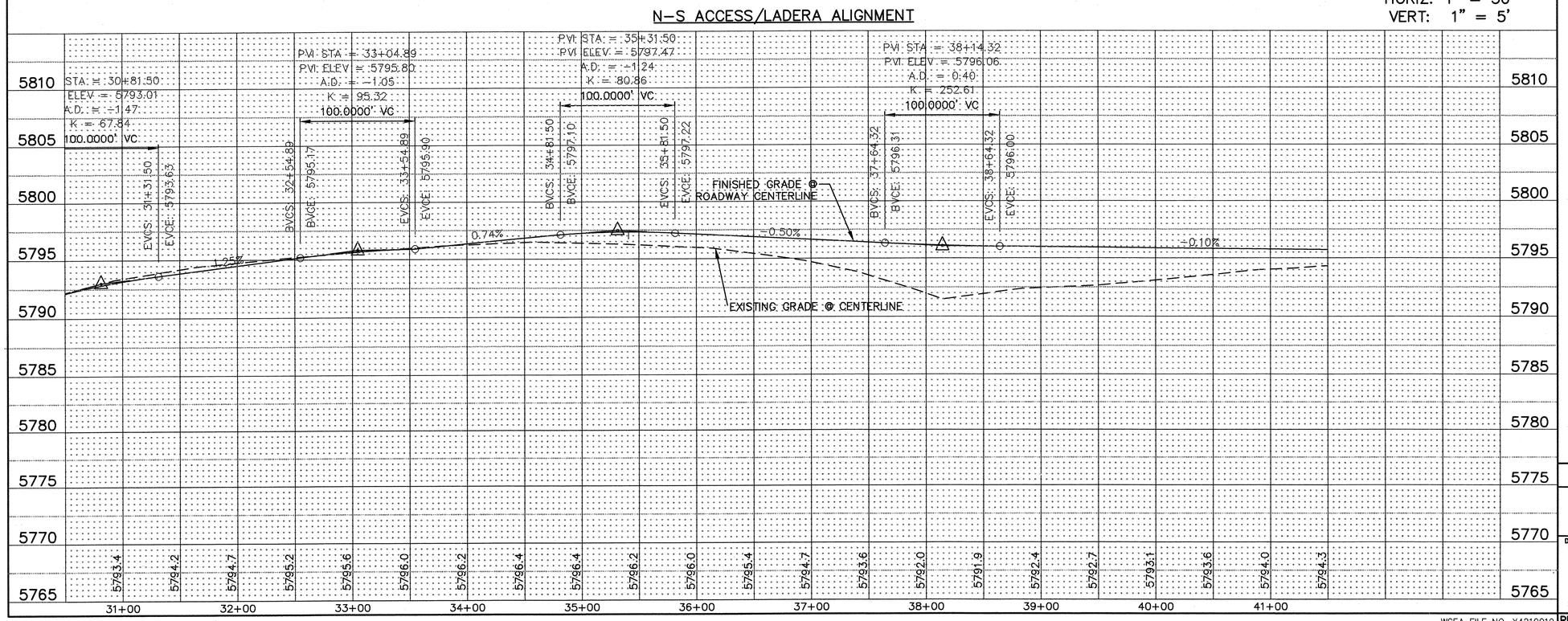

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

RECORD DRAWING
DATE 6/22/06

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

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~ORTHO = 0.000065144427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
JAMES D. BRAD NEWCOMB 8374 REGISTERED PROFESSIONAL ENGINEER
5/24/05

NO.	DATE	REMARKS / REVISIONS	BY

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	DDB	DATE	MAY. 05	DDB	MAY. 05
DRAWN BY	DAH	DATE	MAY. 05	DDB	MAY. 05
CHECKED BY	DDB	DATE	MAY. 05		

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY PLAN AND PROFILE STA. 30+50 – 41+50

Design Review Committee	City Engineer Approval	Last Design Update		

WCEA FILE NO. X4210019	PROJECT NO.	BCPW #TS 04-07-C C.O.A. # 760683	MAP NO.	SHEET	OF
BID PKG. C – MAY. 2005			K-4, K-5	8	25

WILSON & COMPANY

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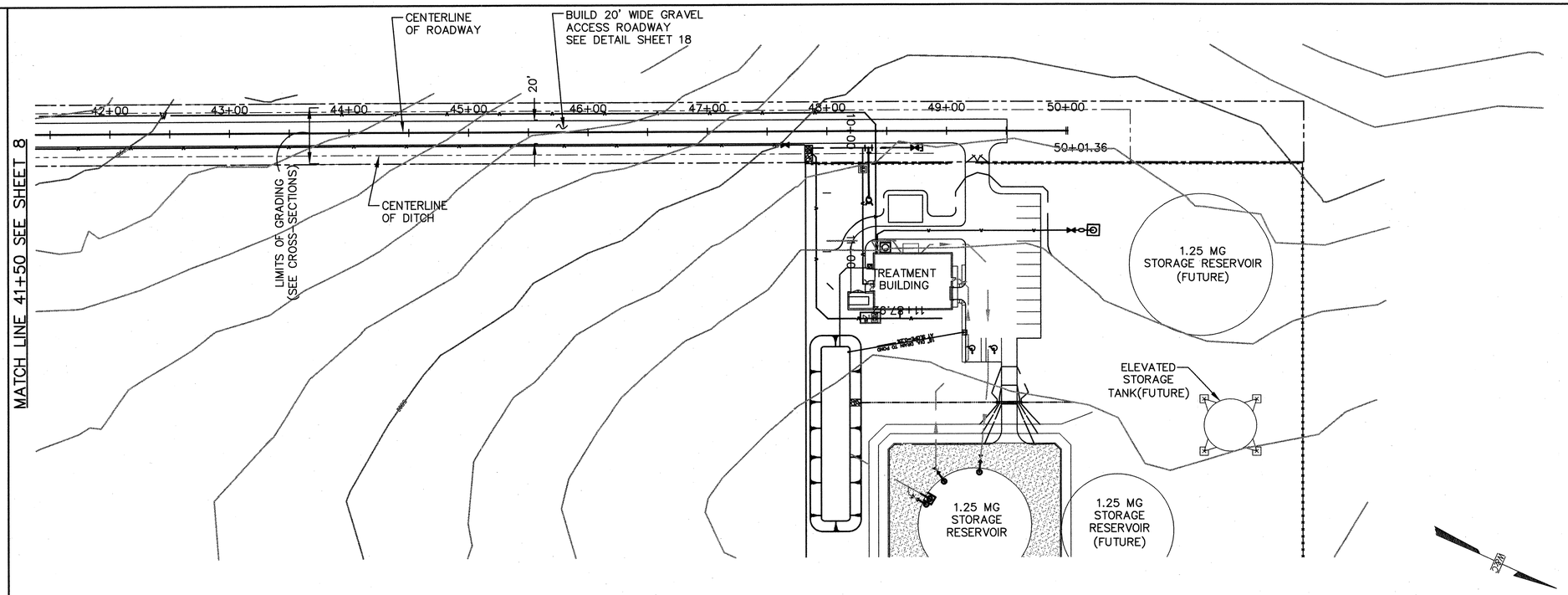
SCANNED BY MEBA REPRO



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VERT: 1" = 5'

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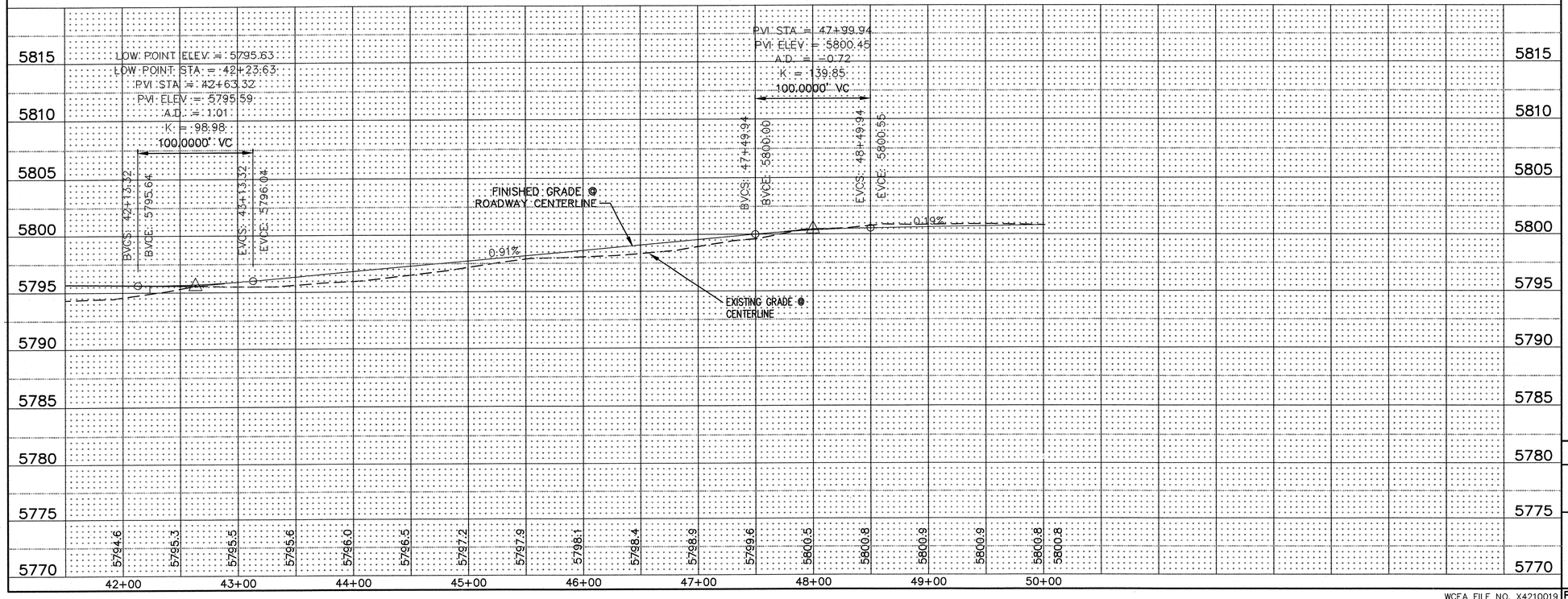

RECORD DRAWING
DATE 6/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
FIELD SURVEYS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~COOF = 0.09996544427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
JAMES D. BRAND — NEW MEXICO — 9374 — REGISTERED PROFESSIONAL ENGINEER
5/25/05

NO.	DATE	REMARKS / REVISIONS	BY

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY PROFILE STA. 41+50 – 50+01.56

Design Review Committee | City Engineer Approval | Last Design Update

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. BCPW #TS 04-07-C C.O.A. # 760683 | MAP NO. K-4, K-5 | SHEET 9 OF 25

WILSON & COMPANY

SCANNED BY MESA REPRO

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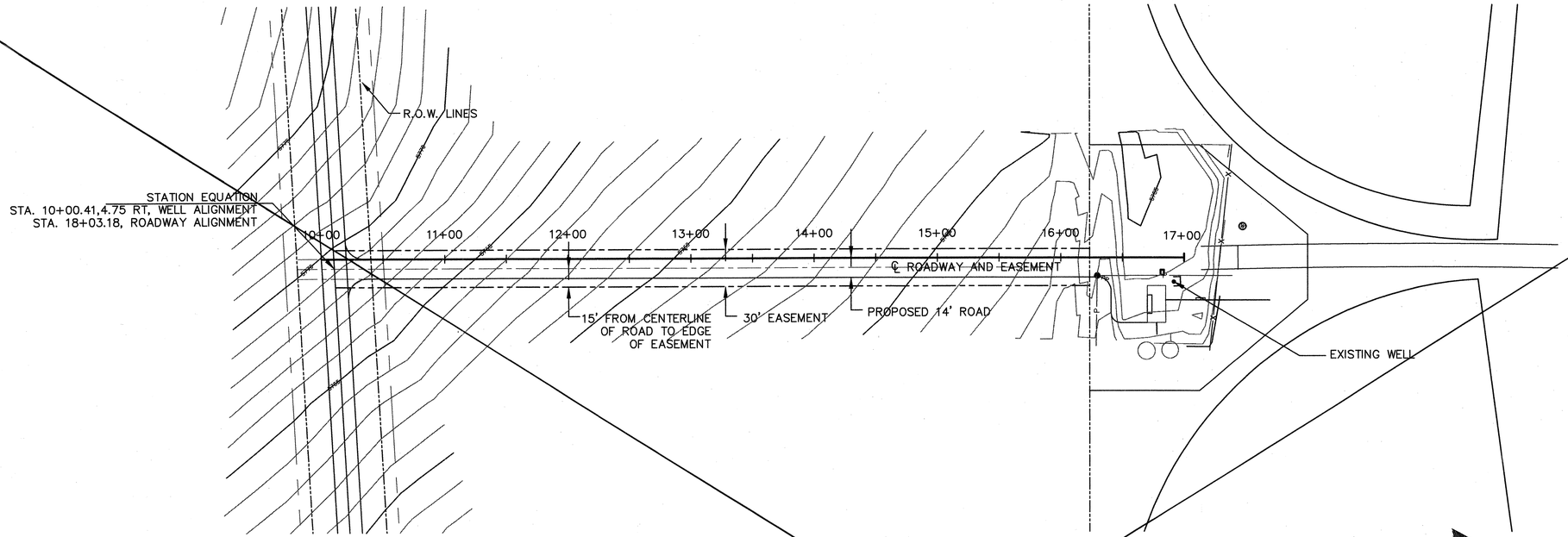
SCANNED BY
MESA REPRO



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

WELL DRIVEWAY ALIGNMENT

THIS SHEET
NOT USED
See 10A & 10B Added

WCEA FILE NO. X4210019
BID PKG. C - MAR, 2005

AS-BUILT INFORMATION		
CONTRACTOR		DATE
WORK STAKED BY:		
CONSTRUCTION ACCEPTANCE BY		DATE
FIELD INFORMATION BY		DATE
DRAWINGS CORRECTED BY:		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~GOOF = 0.99996414427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JAMES D. BRUNO
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/18/05

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY DDB	DATE MAY. 05
		DRAWN BY DAH	DATE MAY. 05
		CHECKED BY DDB	DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

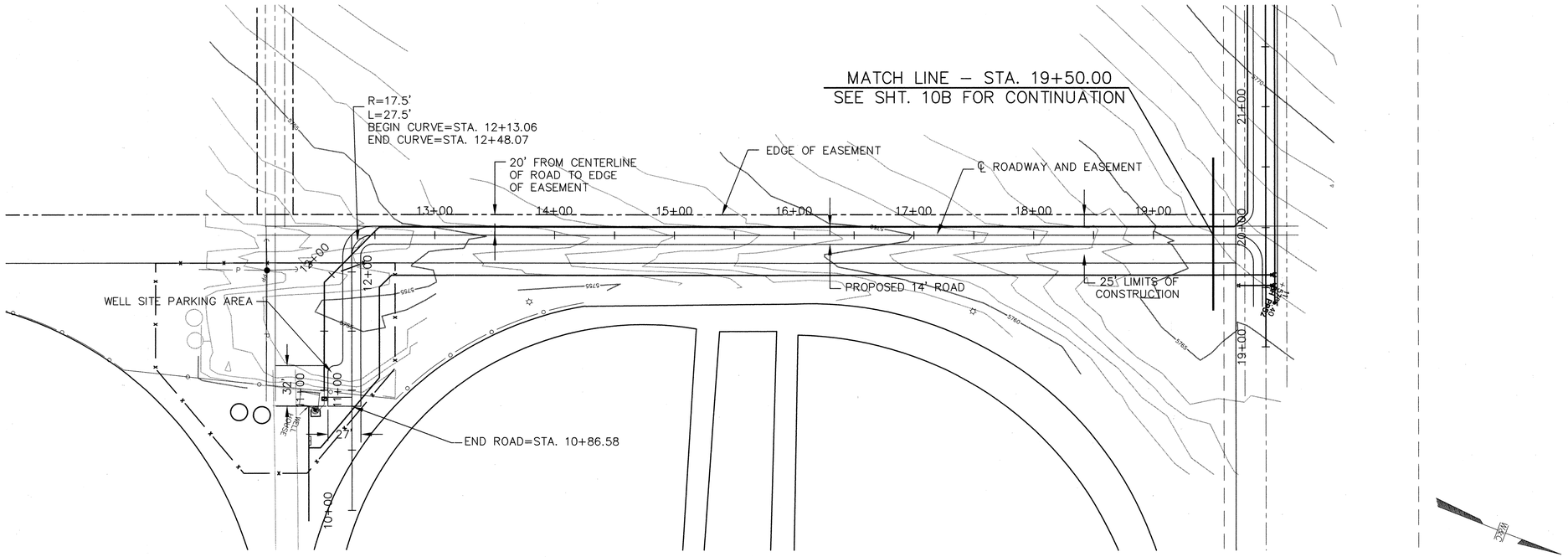
ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WELL DRIVEWAY PLAN AND PROFILE STA. 10+00 – 17+09.99

Design Review Committee	City Engineer Approval	Last Design Update	lbs./lbs./ft.	lbs./lbs./ft.

PROJECT NO.	BCPW #TS 04-07-C C.O.A. # 760683	MAP NO.	SHEET	OF
		K-4, K-5	10	25

WILSON & COMPANY

SCANNED BY
MESA REPRO



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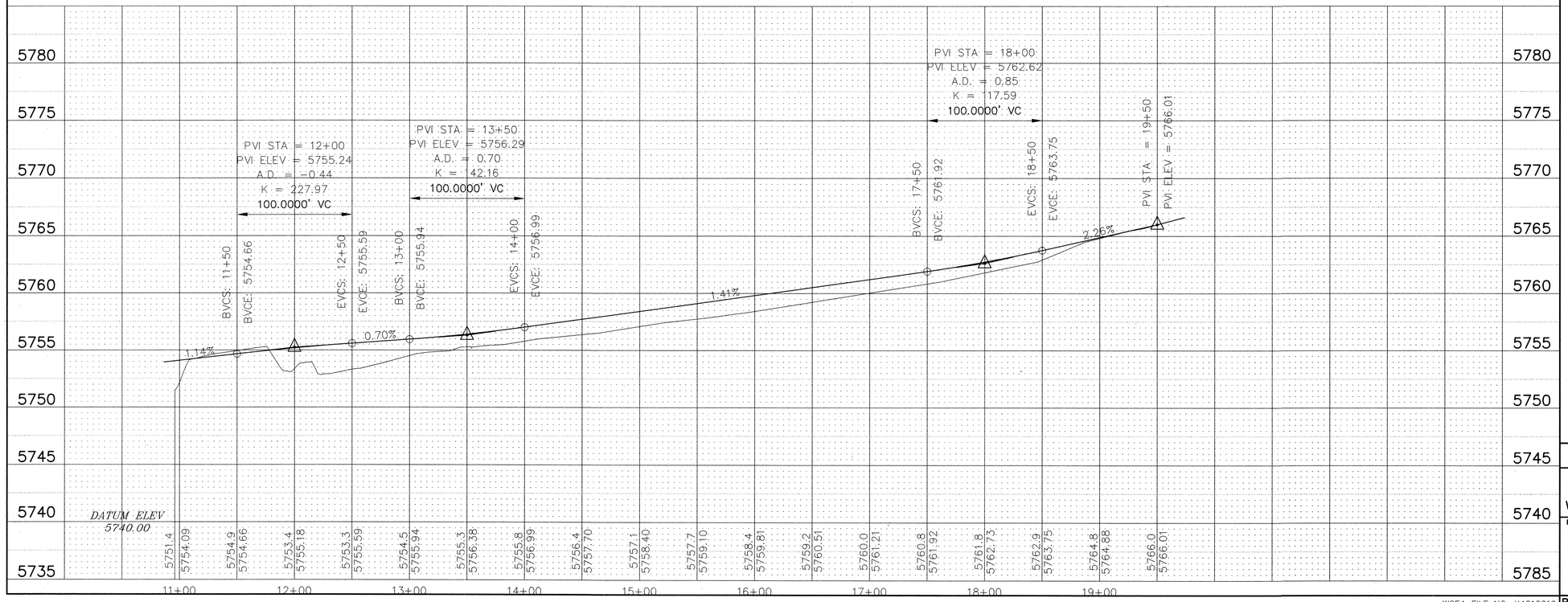
HORIZ: 1" = 50'
VERT: 1" = 5'

WELL ACCESS DRIVE ALIGNMENT



3 SHEET 10A ADDED PER REV. 3.

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTION BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
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ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
JAMES D. BRAND
NEW MEXICO
14834
REGISTERED PROFESSIONAL ENGINEER
8/31/05

REVISIONS
NO. | DATE | BY | REMARKS

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WELL ACCESS DRIVE PLAN & PROFILE STA. 10+00 – 19+50

Design Review Committee	City Engineer Approval	Last Design Update	No./Day/Yr.	No./Day/Yr.

WCEA FILE NO. X4210019
BID PKG. C – MAR. 2005

PROJECT NO.	BCPW #TS 04-07-C C.O.A. # 760683	MAP NO.	SHEET	OF
		K-4, K-5	10A	25

WILSON & COMPANY

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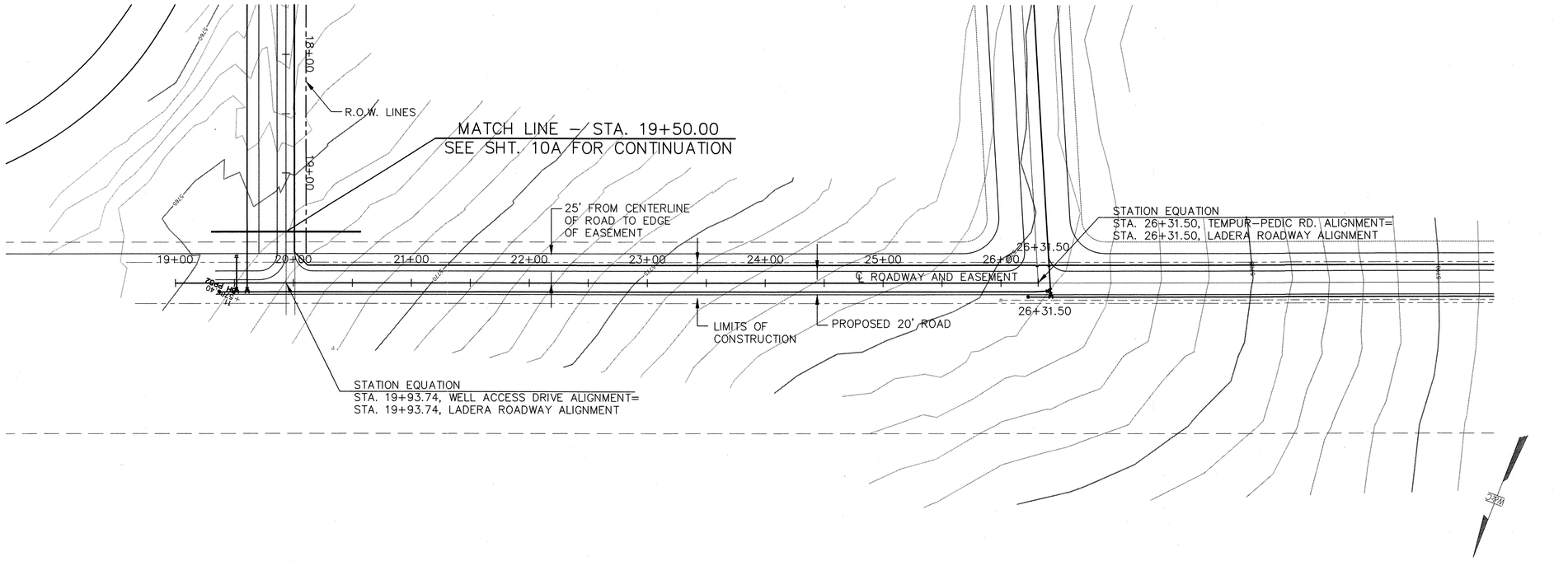
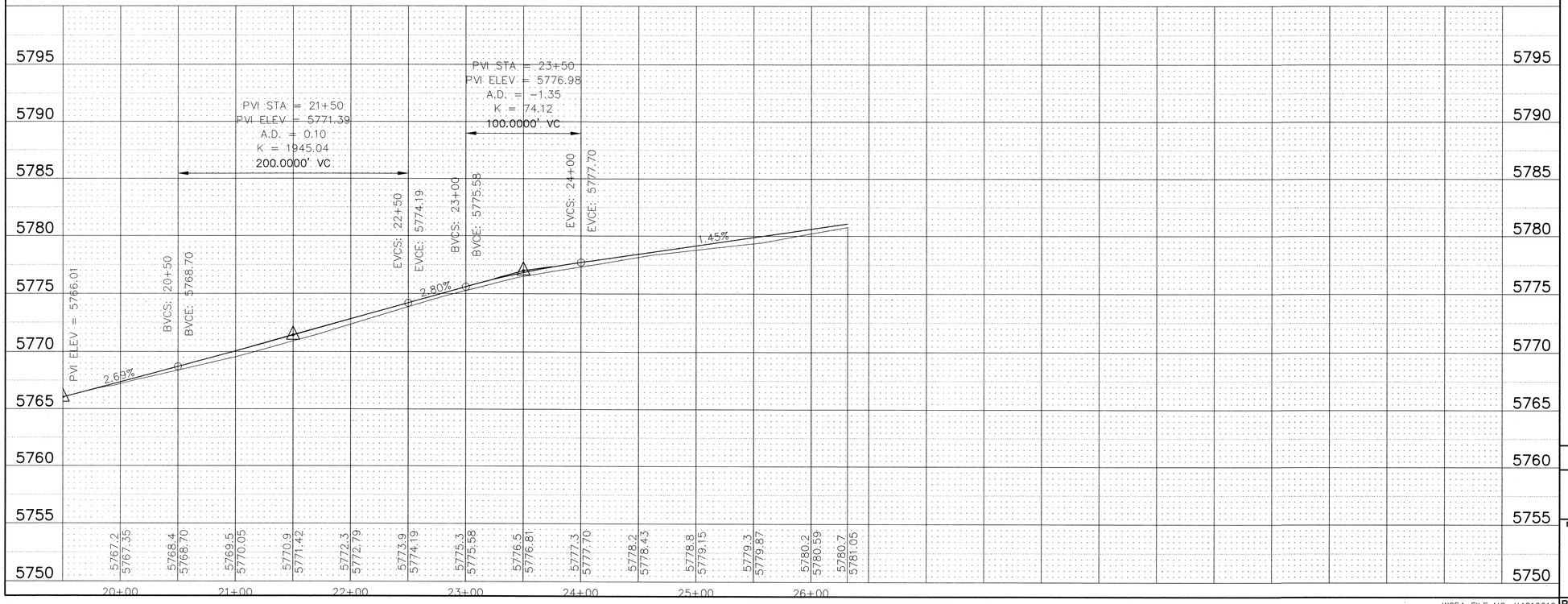
SCANNED BY
MESA REPRO



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

LADERA ROADWAY ALIGNMENT



△3 SHEET 10B ADDED PER REV. 3.

RECORD DRAWING
DATE 5/22/06

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
8/31/05

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
STAKING CHECKED	
ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~ELEV = 0.0999654442~~
ELEVATION = 5794.218 FT. (NAVD 29)

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY & WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
LADERA ROADWAY PLAN & PROFILE STA. 19+50 – 26+31.5

Design Review Committee	City Engineer Approval	Last Design Update	No./Rev./Pr.	No./Rev./Pr.

WCEA FILE NO. X4210019
BID PKG. C – MAR. 2005

PROJECT NO.	BCPW #TS 04-07-C C.O.A. # 760683	MAP NO.	SHEET	OF
		K-4, K-5	10B	25

WILSON & COMPANY

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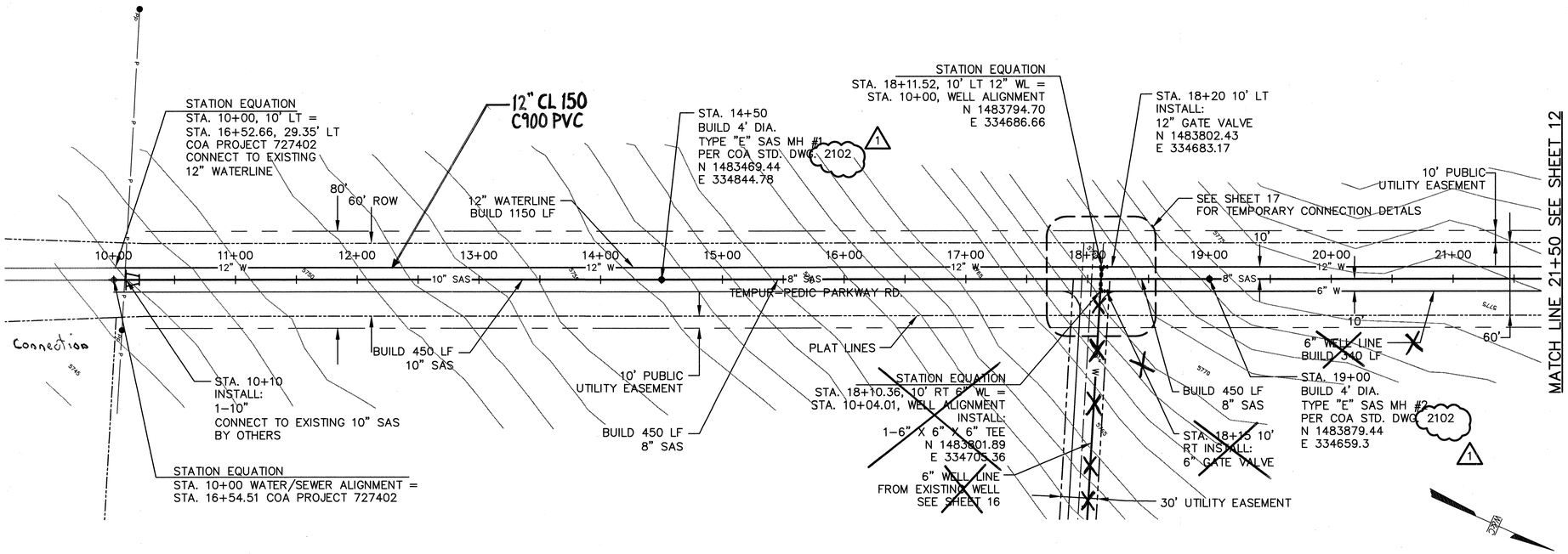
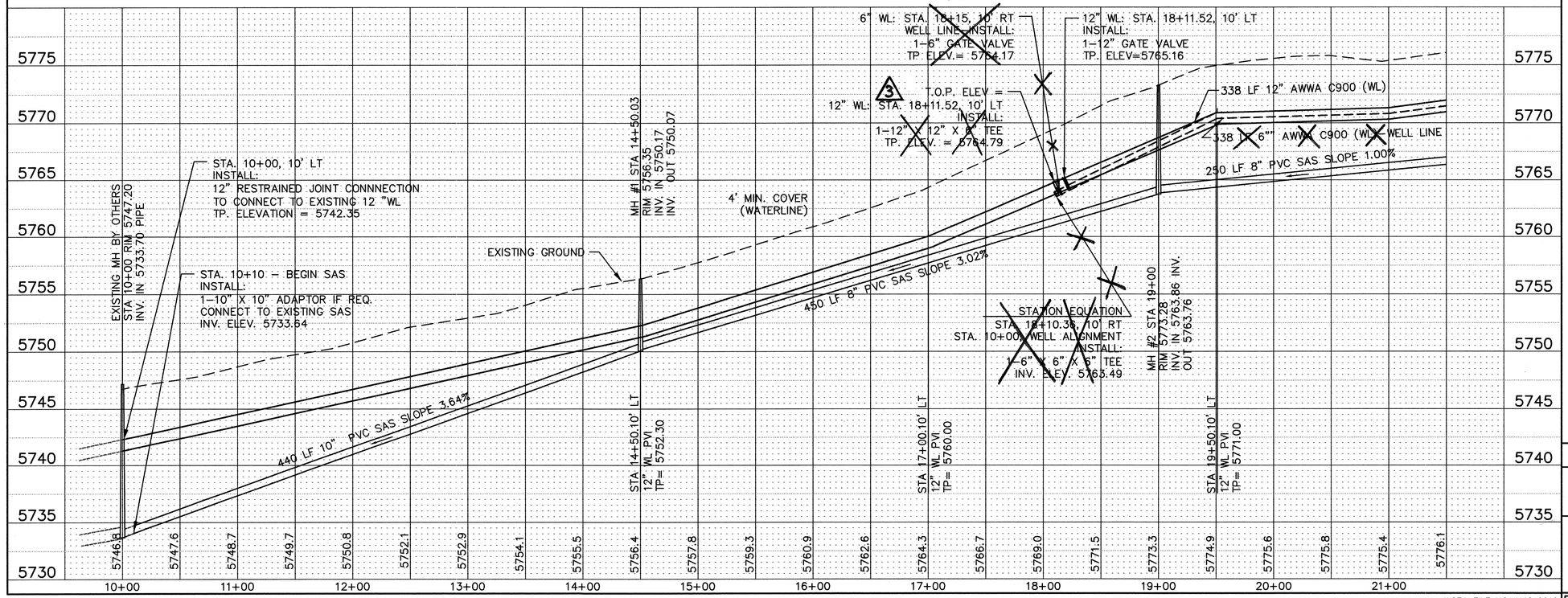


SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

TEMPUR-PEDIC PARKWAY RD. ALIGNMENT WATER/SEWER



3 DENOTES ITEMS DELETE FROM PROJECT

RECORD DRAWING
DATE 5/22/06

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
PWRev #1
8/3/05

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
SURVEYED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
0.999863544427
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | DATE | BY

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/31/06

NO.	DATE	REMARKS	BY
1	8/3/05	CORRECT STD DWG NUMBER	DAH

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY — DDB — DATE MAY. 05
DRAWN BY — DAH — DATE MAY. 05
CHECKED BY — DDB — DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATER/SEWER PLAN AND PROFILE STA. 10+00 – 21+50

Design Review Committee: APPROVED AUG 3 0 2005 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

PROJECT NO. BCPW #TS 04-07-C C.O.A. # 760683
MAP NO. K-4, K-5
SHEET 11 OF 25

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY

SCANNED BY MESA REPRO

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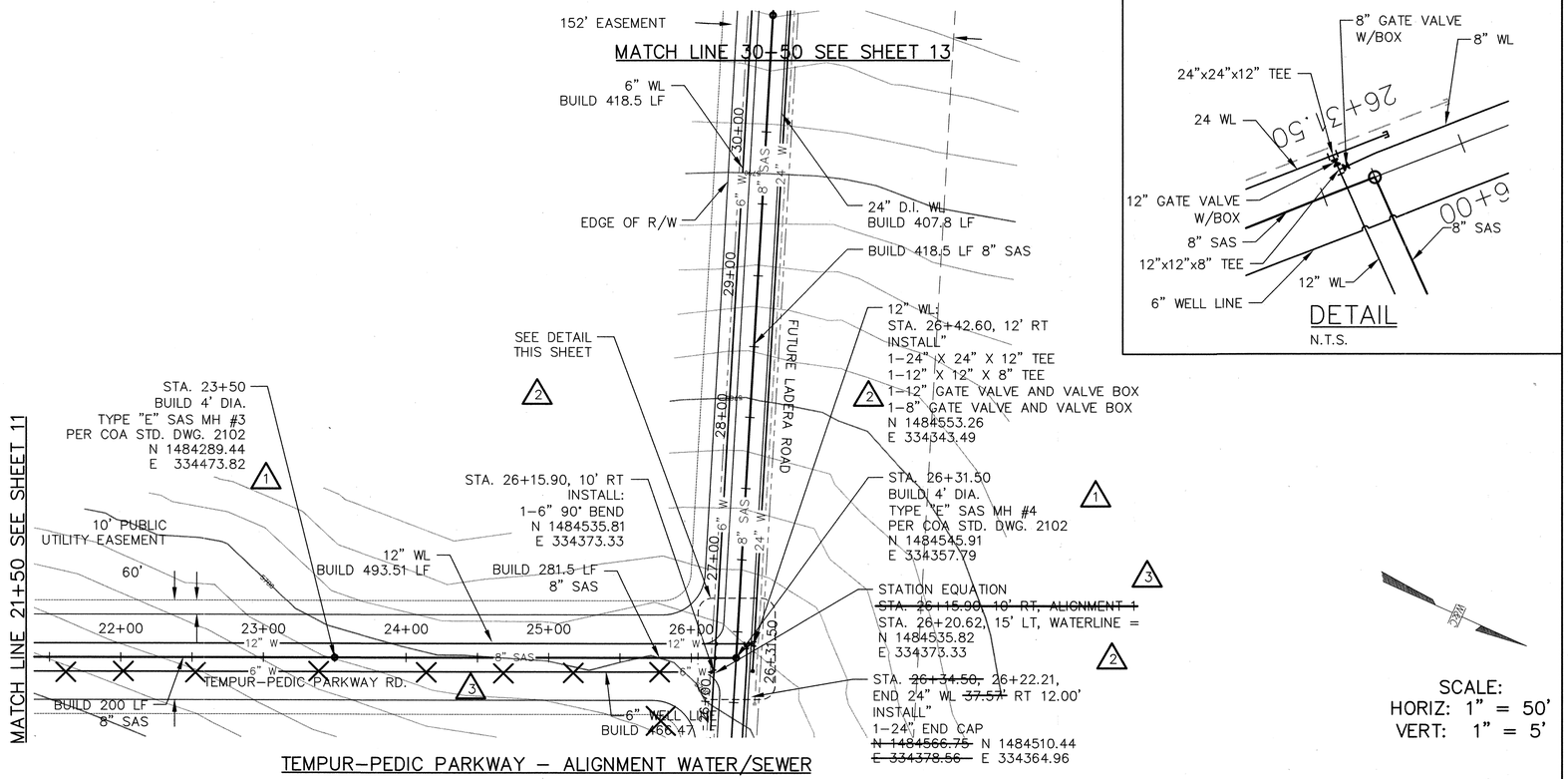
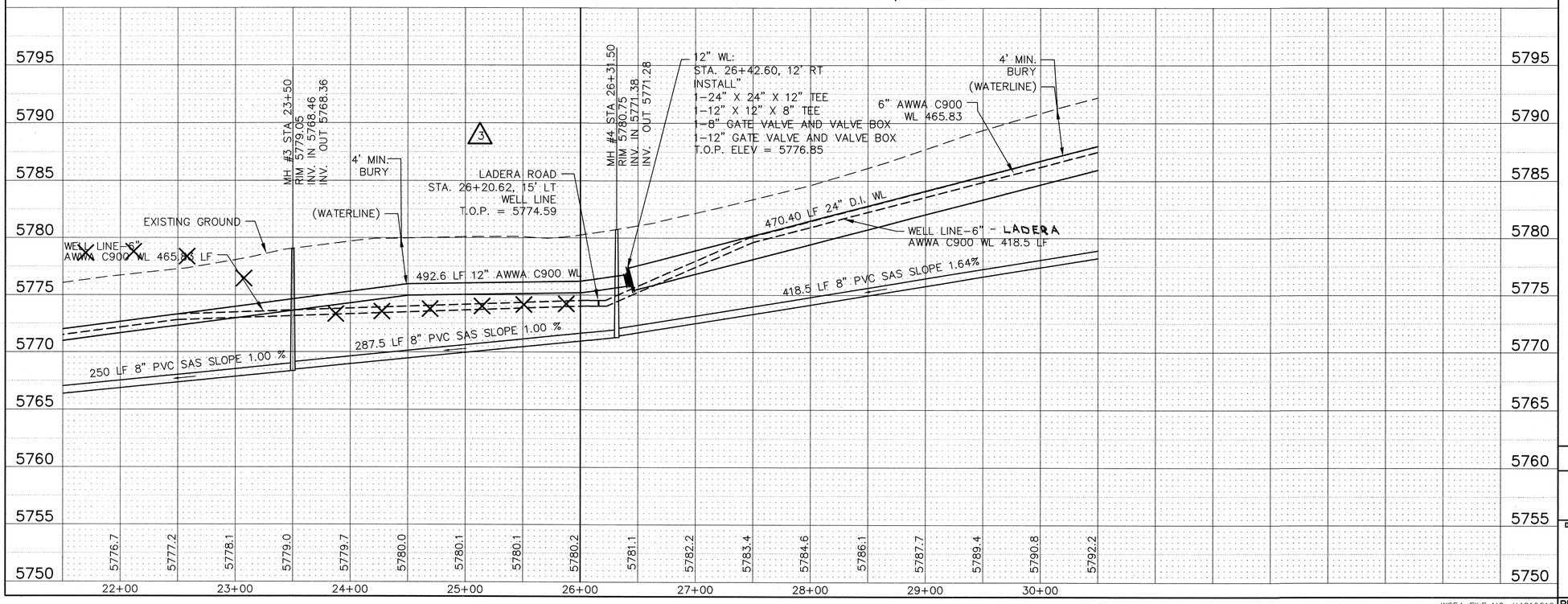
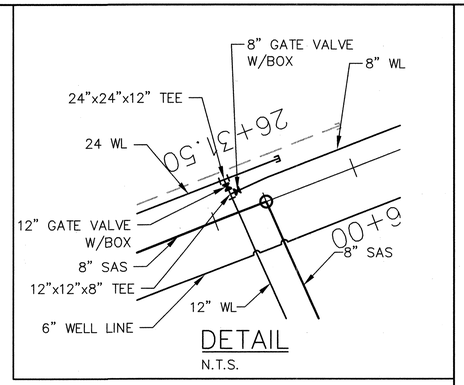
SCANNED BY
MESA REPRO



TEMPUR-PEDIC PARKWAY – ALIGNMENT WATER/SEWER





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

RECORD DRAWING
DATE 5/22/06

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER

Per Rev #1 & Rev #3 8/31/05

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
CONSTRUCTION ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
RECORDED BY
NO.
DATE

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.9996~~ = ~~0.9999965441427~~
ELEVATION = 5794.218 FT. (NAVD 29)

MICRO-FILM INFORMATION
DATE
RECORDED BY
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/25/05

NO.	DATE	REMARKS	BY
3	8/25/05	REALIGN WELL & WATER LINES	CRU
2	8/18/05	CHANGED WELL ALIGNMENT	DDB
1	8/3/05	CORRECT STD DWG NUMBER	DDB

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

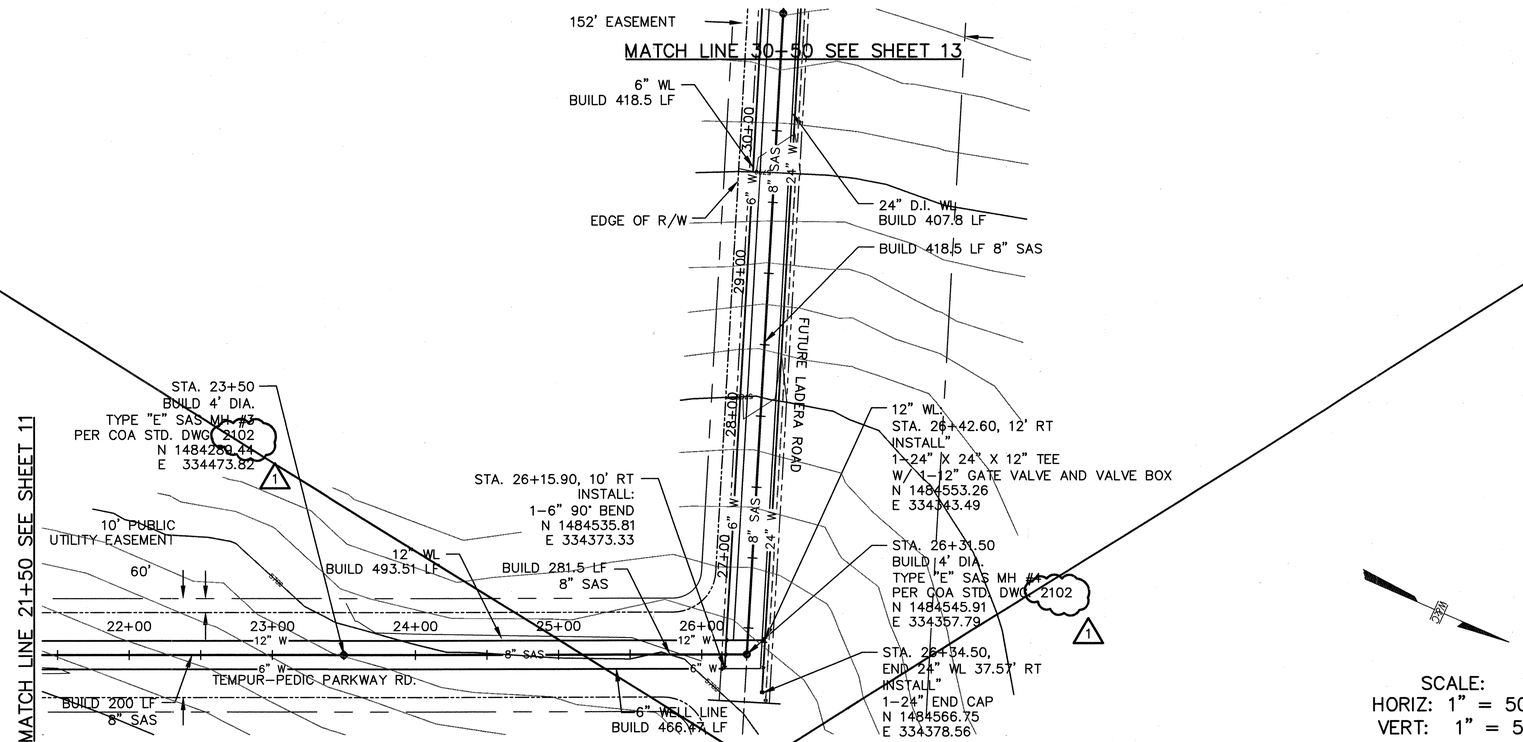
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATER/SEWER PLAN AND PROFILE STA. 21+50 – 30+50

Design Review Committee	City Engineer Approval	Last Design Update	No./Seq'ls.	No./Seq'ls.

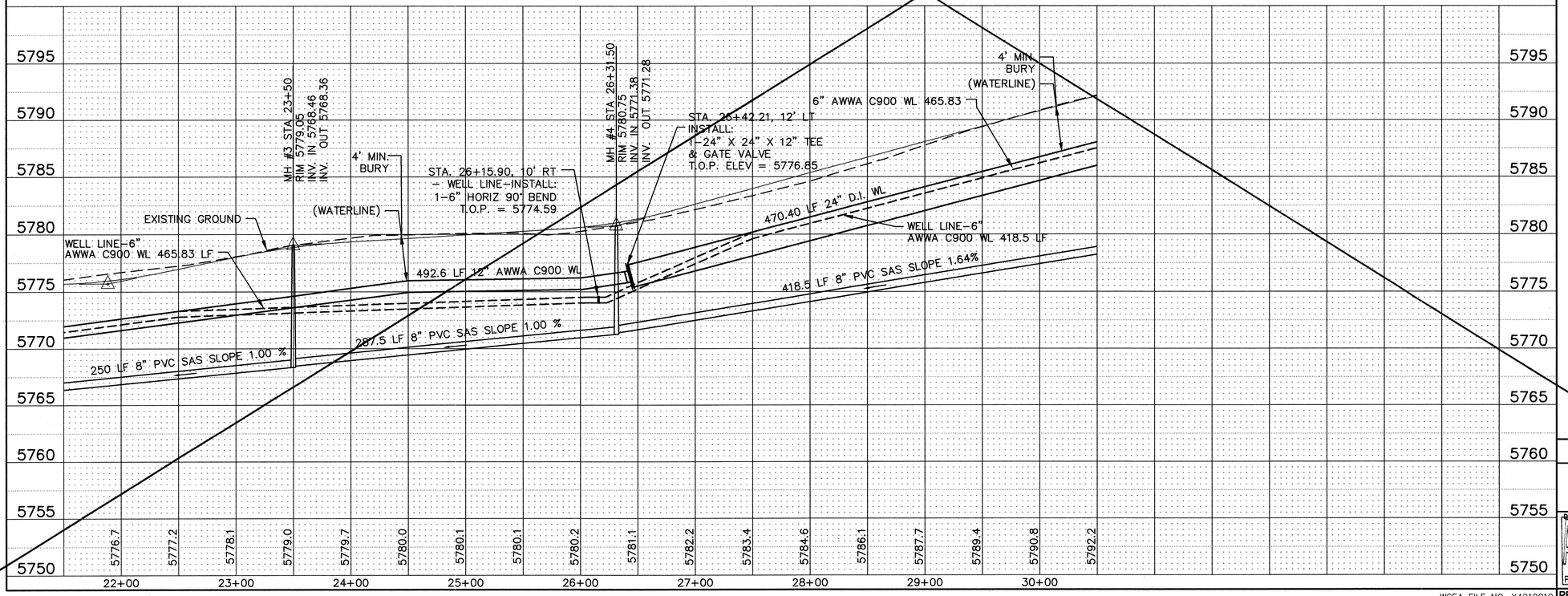
PROJECT NO. BCPW #TS 04-07-C
C.O.A. # 760683
MAP NO. K-4, K-5
SHEET 12 OF 25

WILSON & COMPANY

SCANNED BY
MESA REPRO



TEMPUR-PEDIC PARKWAY – ALIGNMENT WATER/SEWER



SEE
REVISED SHEET

Pen Rev #1
8/3/05

DENNIS D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

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AS-BUILT INFORMATION

CONTRACTOR
WORK STARTED BY: DATE
WORK COMPLETED BY: DATE
ACCEPTANCE BY: DATE
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: DATE

MICRO-FILM INFORMATION

RECORDED BY: DATE
NO.

BENCH MARKS

ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.99996544427~~ ,
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/25/05

NO.	DATE	REMARKS	DAH BY
1	8/3/05	CORRECT STD DWG NUMBER	
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATER/SEWER PLAN AND PROFILE STA. 21+50 – 30+50

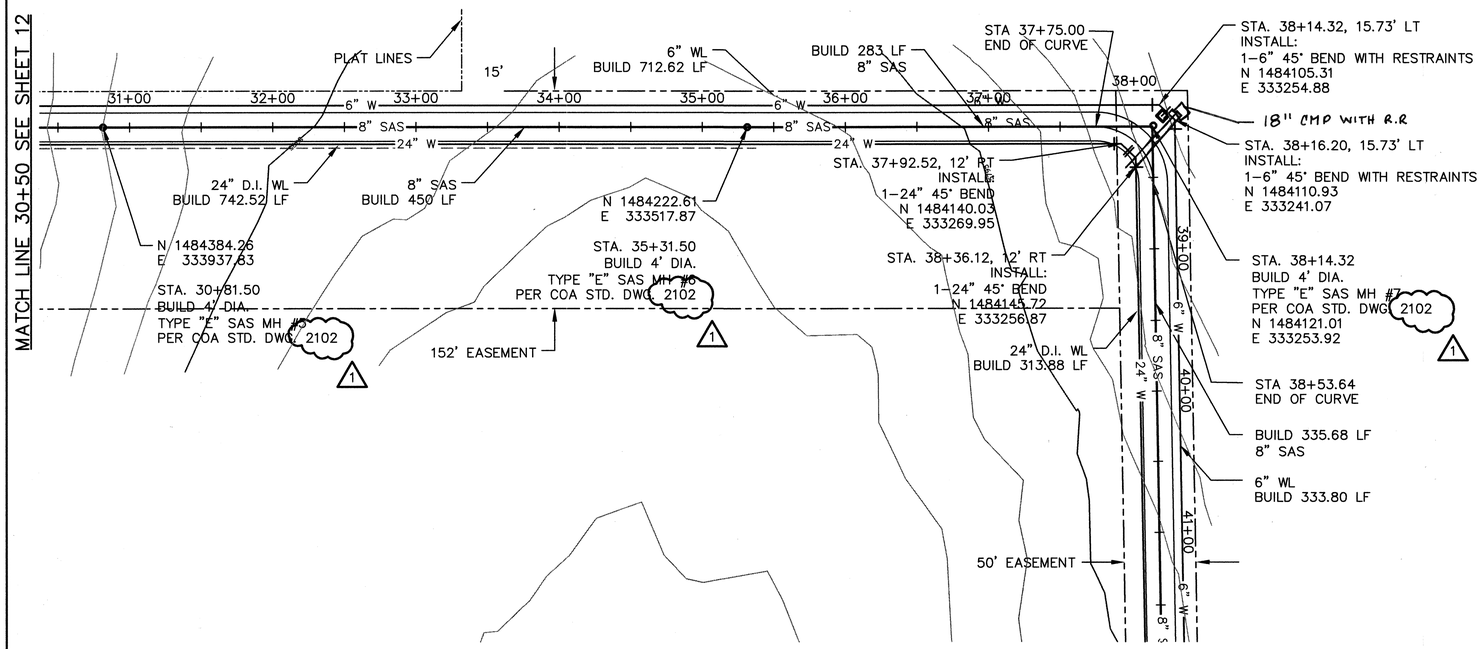
Design Review Committee: APPROVED AUG 19 2005 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

PROJECT NO. BCPW #TS 04-07-C C.O.A. # 760683
MAP NO. K-4, K-5
SHEET 12 OF 25

WILSON & COMPANY

SCANNED BY
MESA REPRO

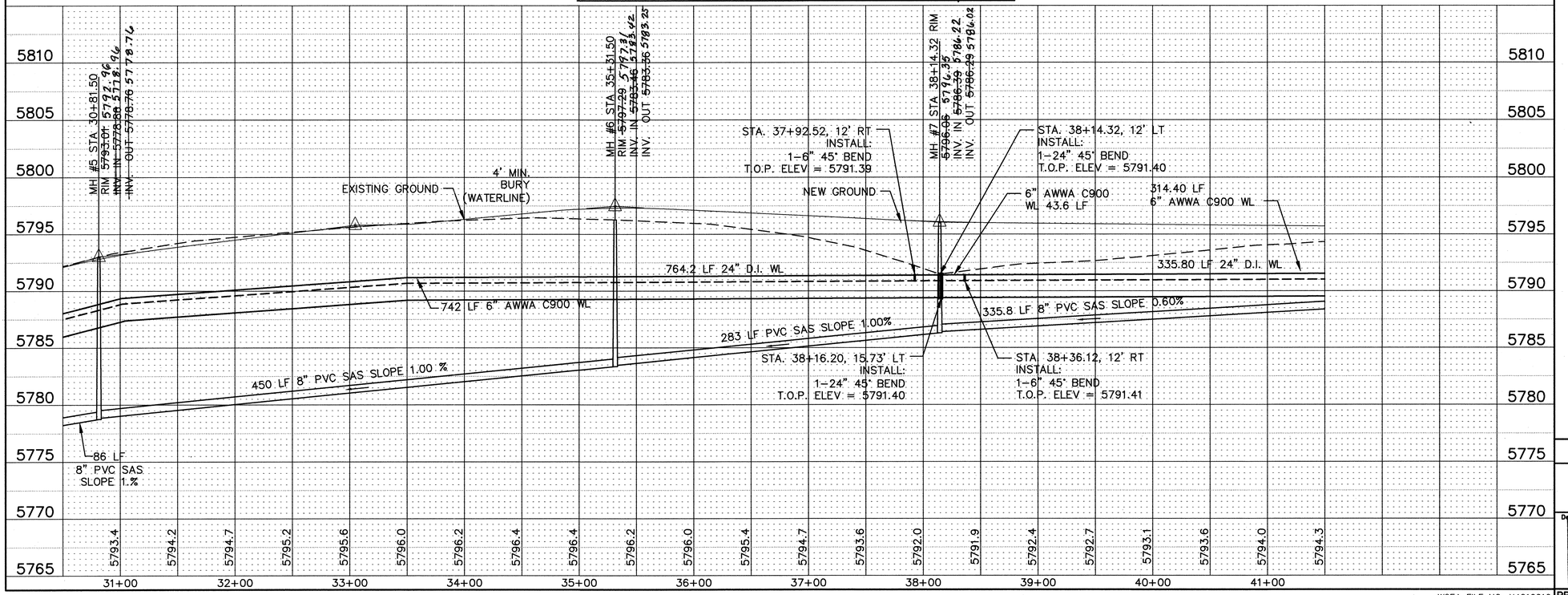
MATCH LINE 30+50 SEE SHEET 12



MATCH LINE 41+50 SEE SHEET 14

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

TEMPUR-PEDIC PARKWAY RD. ALIGNMENT WATER/SEWER



RECORD DRAWING
DATE 5/22/06

Pw Rev #1
8/3/05

DENNIS D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER

WCEA FILE NO. X4210019
BID PKG. C - MAY. 2005

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AS-BUILT INFORMATION
CONTRACTOR
WORK STARTED BY / DATE
WORK COMPLETED BY / DATE
ACCEPTANCE BY / DATE
FIELD VERIFICATION BY / DATE
DRAWINGS COMPILED BY / DATE

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
COMF = 0.0999861111427
ELEVATION = 5794.218 FT. (NAVD 29)

MICRO-FILM INFORMATION
RECORDED BY / DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENNIS D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/8/06

NO.	DATE	REMARKS	DRAWN BY	CHECKED BY
1	8/3/05	CORRECT STD DWG NUMBER	DAH	DDB

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATER/SEWER PLAN AND PROFILE STA. 30+50 - 41+50

Design Review Committee: APPROVED AUG 15 2005 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

PROJECT NO. BCPW #TS 04-07-C C.O.A. # 760683
MAP NO. K-4, K-5
SHEET 13 OF 25

WILSON & COMPANY

SCANNED BY
MESA REPRO

MATCH LINE 41+50 SEE SHEET 13

STATION EQUATION
STA. 48+00.00 SAS/WL ALIGNMENT=
10+00 SAS ALIGNMENT

SEE DETAIL THIS SHEET

STA. 47+14.32
BUILD 4' DIA.
TYPE "E" SAS MH #9
PER COA STD. DWG. 2102
N 1485034.71
E 332884.18

STA. 48+00.00
BUILD 4' DIA.
TYPE "E" SAS MH #10
PER COA STD. DWG. 2102
N 1485034.71
E 332856.44

6" WL:
STA. 48+34.57, 15.93' LT
INSTALL:
1–6" 45° BEND WITH RESTRAINTS
N 1485060.79
E 332856.44

6" WL:
STA. 48+44.56, 5.93' LT
INSTALL:
1–6" 45° BEND WITH RESTRAINTS
N 1485073.79
E 332861.97

24" WL:
STA. 48+79.90, 13.65' RT
INSTALL:
1–24" BUTTERFLY VALVE W/BOX
1–24" END CAP
N 1485107.87
E 332869.3

50' EASEMENT
50' ROW
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
6" W
8" SAS
24" W

10' PNM EASEMENT

STA. 42+64.32
BUILD 4' DIA.
TYPE "D" SAS MH #8
PER COA STD. DWG. 2101
N 1484488.15
E 333087.92

24" WL:
STA. 47+65.00, 11.07' RT
INSTALL:
1–24" 45° BUTTERFLY VALVE W/BOX
N 1485006.42
E 332907.57

MATCH LINE

24" WL:
STA. 47+80.89, 11.07' RT
INSTALL:
1–24" 45° BEND WITH RESTRAINTS
N 1485021.15
E 332901.61

24" WL:
STA. 47+85.88, 16.07' RT
INSTALL:
1–24" X 24" X 24" TEE
N 1485027.65
E 332904.37

24" WL:
STA. 47+90.87, 21.07' RT
INSTALL:
1–24" 45° BEND WITH RESTRAINTS
N 1485034.15
E 332907.13

24" D.I. WL
125.91 LF
BY OTHERS

POND OUTLET
15" CMP
SEE SHEET 4
THIS PROJECT

8" SAS

6" WL
84.70 LF
BY OTHERS

WELL

6" WL
BY OTHERS

TREATMENT BUILDING

1.25 MG
STORAGE RESERVOIR
(FUTUTRE)

AS CONSTRUCTED:
STA. 48+40
INSTALLED: 24"X 6" TEE TO INSTALL NEW F.H.

ELEVATED
STORAGE
TANK(FUTURE)

24' OF
15" RCP
PIPE

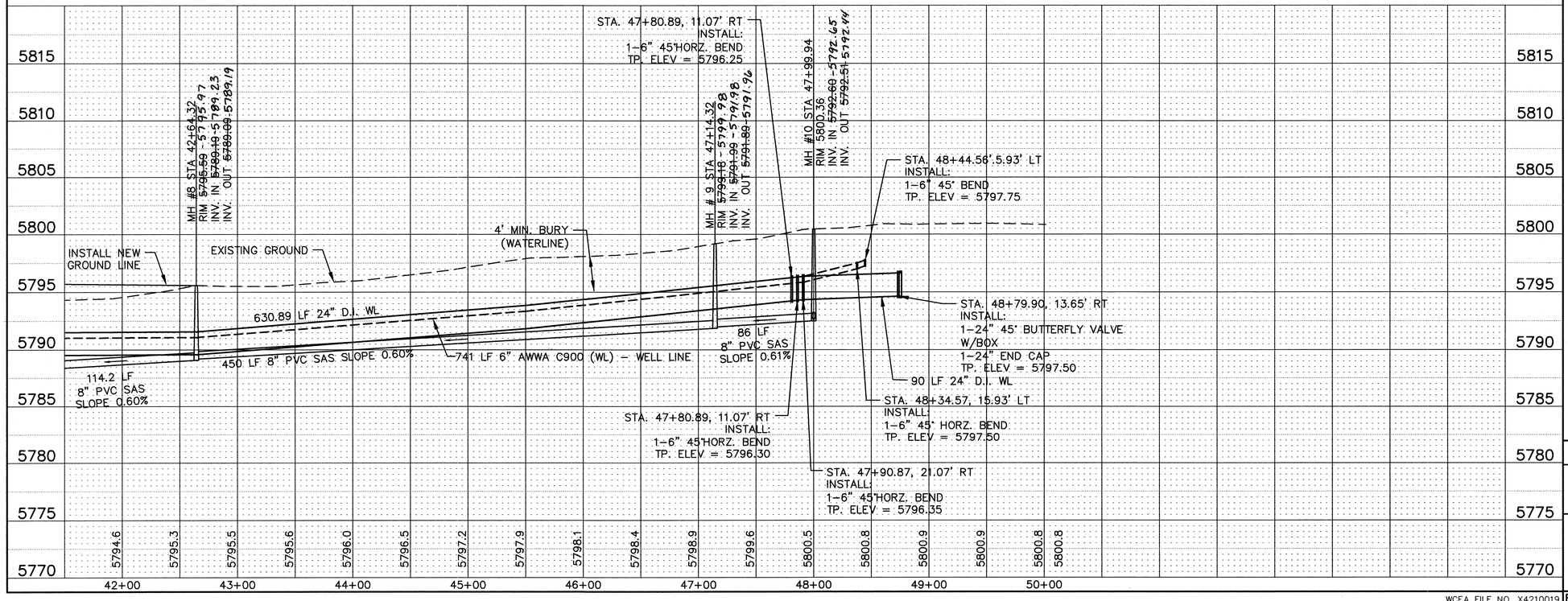
1.25 MG
STORAGE
RESERVOIR

1.25 MG
STORAGE
RESERVOIR
(FUTURE)

MATCH LINE ALL
WATER AND SANITARY SEWER LINES

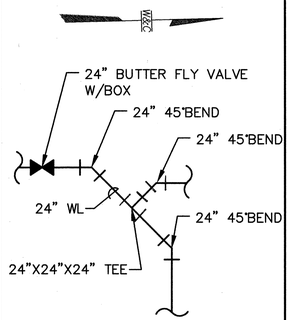
SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

TEMPUR–PEDIC PARKWAY RD. WATER/SEWER ALIGNMENT



NOTE:

1. MATCH LINE FOR WATER , SEWER AND WELL LINES SHALL BE THE WESTERN PROPERTY LINE OF THE RESERVOIR SITE – ALL WORK WITHIN THE SITE SHALL BE COMPLETED BY OTHERS UNDER BID PACKAGE D.



WATERLINE PLAN BLOW UP
NOT TO SCALE

RECORD DRAWING
DATE 5/22/06

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
8/3/05

AS–BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
CHANGES — DATE
ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

BENCH MARKS
ACS 1–K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
ACCF = 0.9999854427
ELEVATION = 5794.218 FT. (NAVD 29)

MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/28/05

NO.	DATE	REMARKS	DESIGNED BY	DRAWN BY	CHECKED BY
1	8/3/05	CORRECT STD DWG NUMBER/LETTER	DAH	DAH	DDB
			DDB	DAH	DDB
			DATE MAY. 05	DATE MAY. 05	DATE MAY. 05

REVISIONS — WILSON & COMPANY, ENGINEERS & ARCHITECTS

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATER/SEWER PLAN AND PROFILE STA. 41+50 – 49+84.92

Design Review Committee: APPROVED AUG 29 2005 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update
No./Day/Yr. | No./Day/Yr.

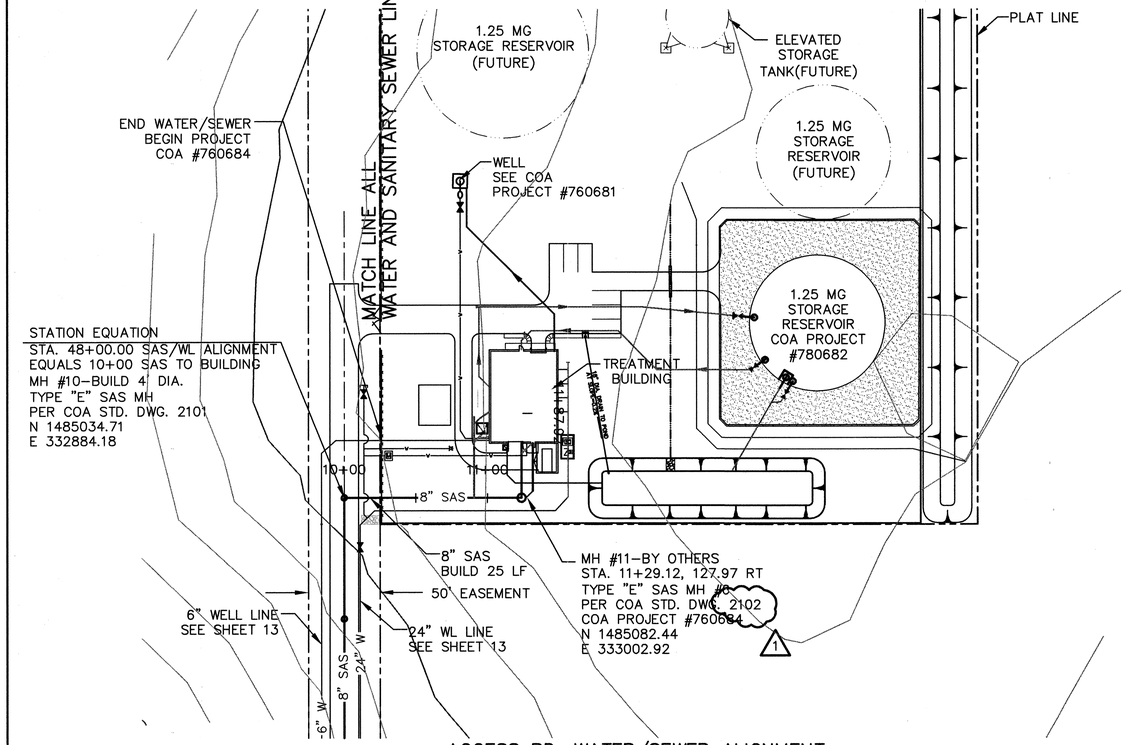
WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. BCPW #TS 04–07–C C.O.A. # 760883 | MAP NO. K–4, K–5 | SHEET 14 OF 25

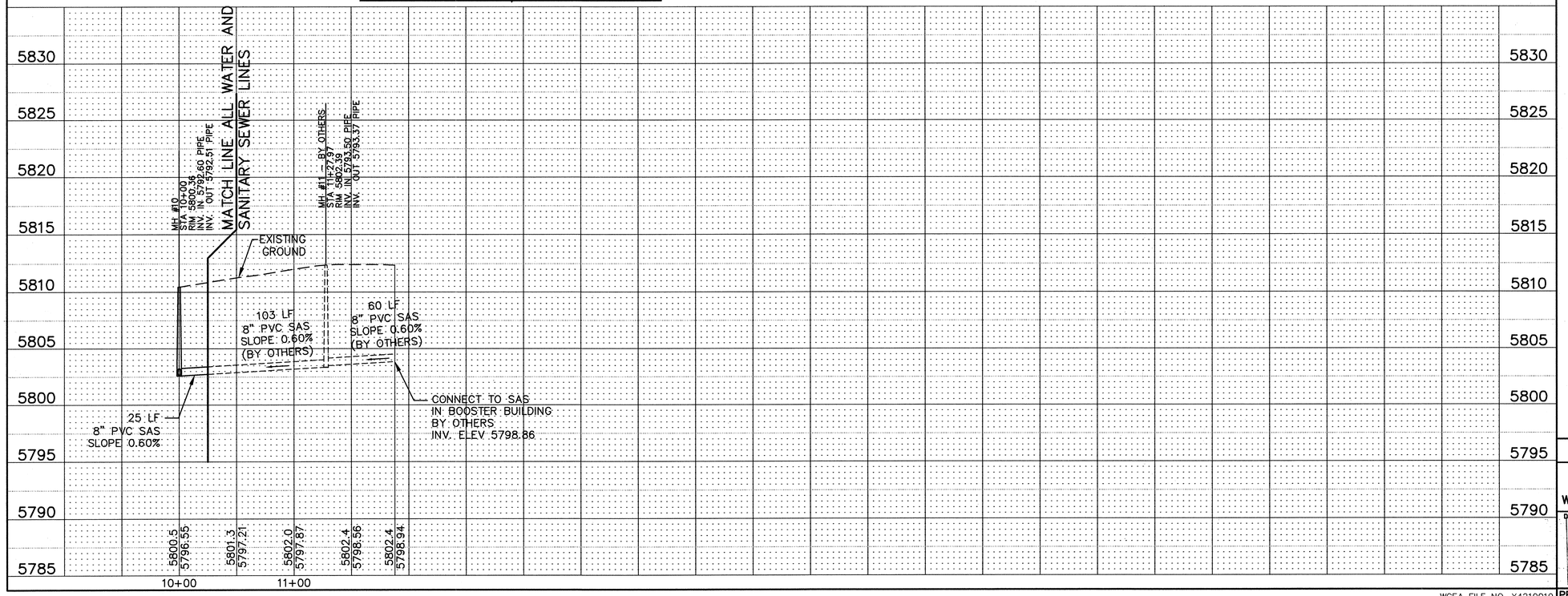
WILSON & COMPANY

X:\Public\PROJECTS\X4210019\WS\Sheets\PNP'S\WaterSewer\PNP–4.dwg 8/3/2005 10:52:58 AM MST

SCANNED BY
MESA REPRO



ACCESS RD. WATER/SEWER ALIGNMENT



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

NOTE:
1. MATCH LINE FOR WATER , SEWER AND WELL LINES SHALL BE THE WESTERN PROPERTY LINE OF THE RESERVOIR SITE – ALL WORK WITHIN THE SITE SHALL BE COMPLETED BY OTHERS UNDER BID PACKAGE D.

RECORD DRAWING
DATE 5/22/06

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
PM RW # 1
8/3/05

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
ELEVATION = 5794.218 FT. (NAVD 29)

AS-BUILT INFORMATION
CONTRACTOR
WORK STARTED BY / DATE
INSPECTOR'S ACCEPTANCE BY / DATE
FIELD VERIFICATION BY / DATE
DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO.

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/22/06

NO.	DATE	REMARKS
1	8/3/05	CORRECT STD DWG NUMBER

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	DDB	DATE	MAY. 05
DRAWN BY	DAH	DATE	MAY. 05
CHECKED BY	DDB	DATE	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATER/SEWER PLAN AND PROFILE STA. 10+00 – 11+ 87.92

Design Review Committee: APPROVED AUG 29 2005 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

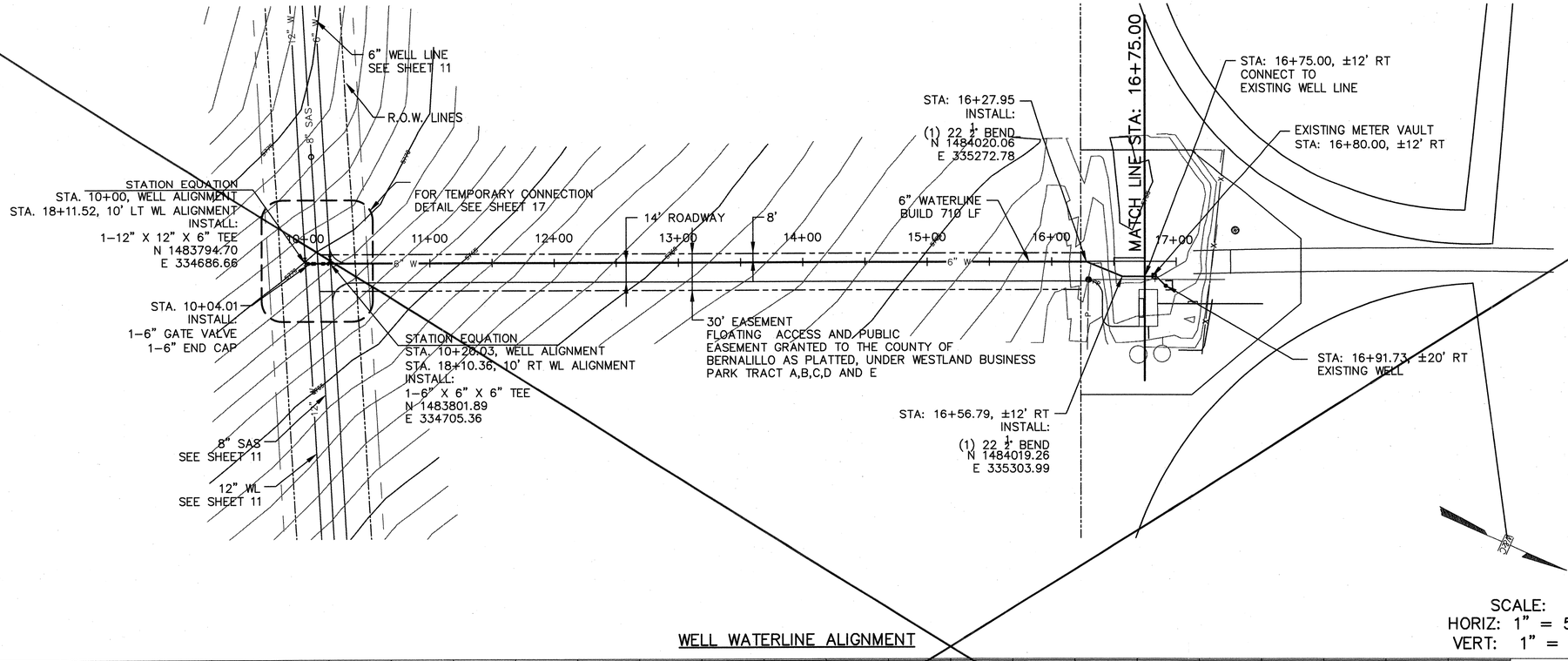
WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO.	BCPW #TS 04-07-C C.O.A. # 760683	MAP NO.	SHEET	OF
		K-4, K-5	15	25

WILSON & COMPANY

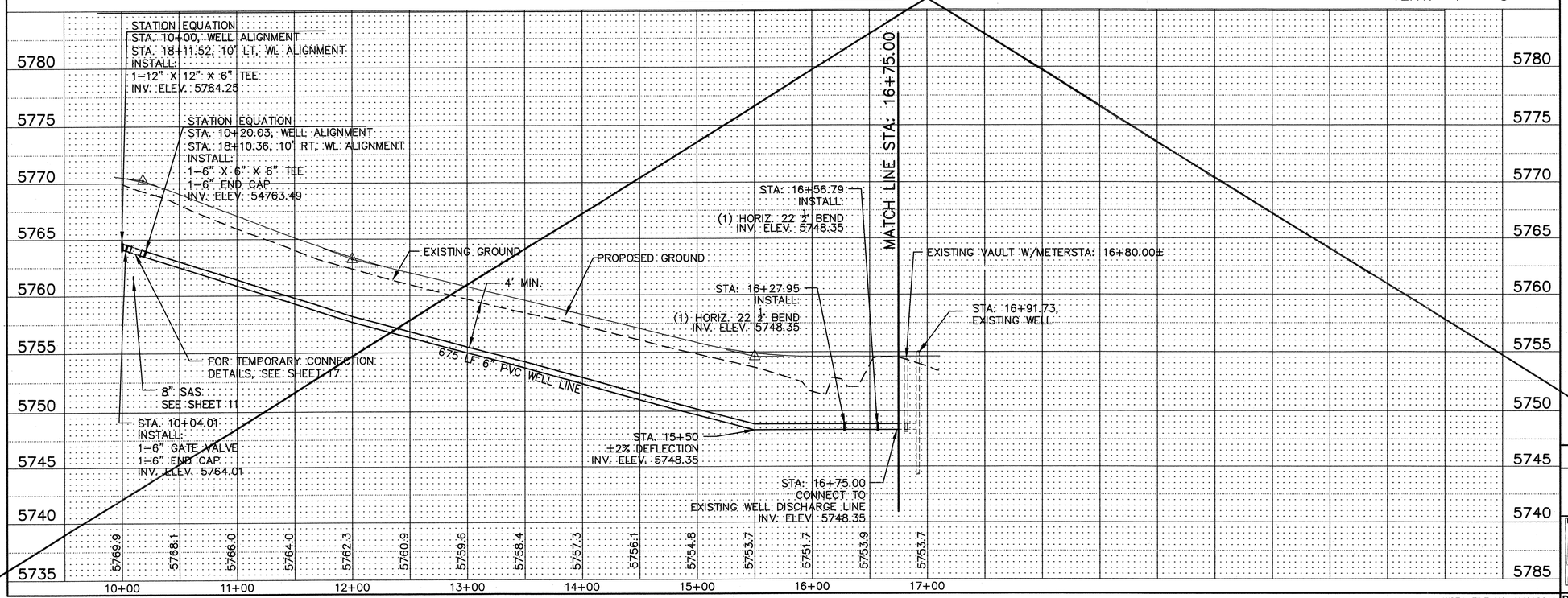
X:\Public\PROJECTS\X4210019\WS\Sheets\PNP'S\WaterSewer\PNP-5.dwg 5/16/2005 4:46:06 PM MDT

SCANNED BY
MESA REPRO



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

WELL WATERLINE ALIGNMENT



THIS SHEET
NOT USED
SEE Sheets 16A & 16B
Added

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

X:\Public\PROJECTS\X4210019\WS\Sheets\PNP'S\Well\PNP-1.dwg 5/16/2005 4:54:37 PM MDT

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK DONE BY — DATE
INSPECTOR'S ATTENDANCE BY — DATE
FIELD VERIFICATION BY — DATE
PLANS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
CCCF = 0.9999654427
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
GLEN D. BRAND
NEW MEXICO
6374
REGISTERED PROFESSIONAL ENGINEER
5/25/05

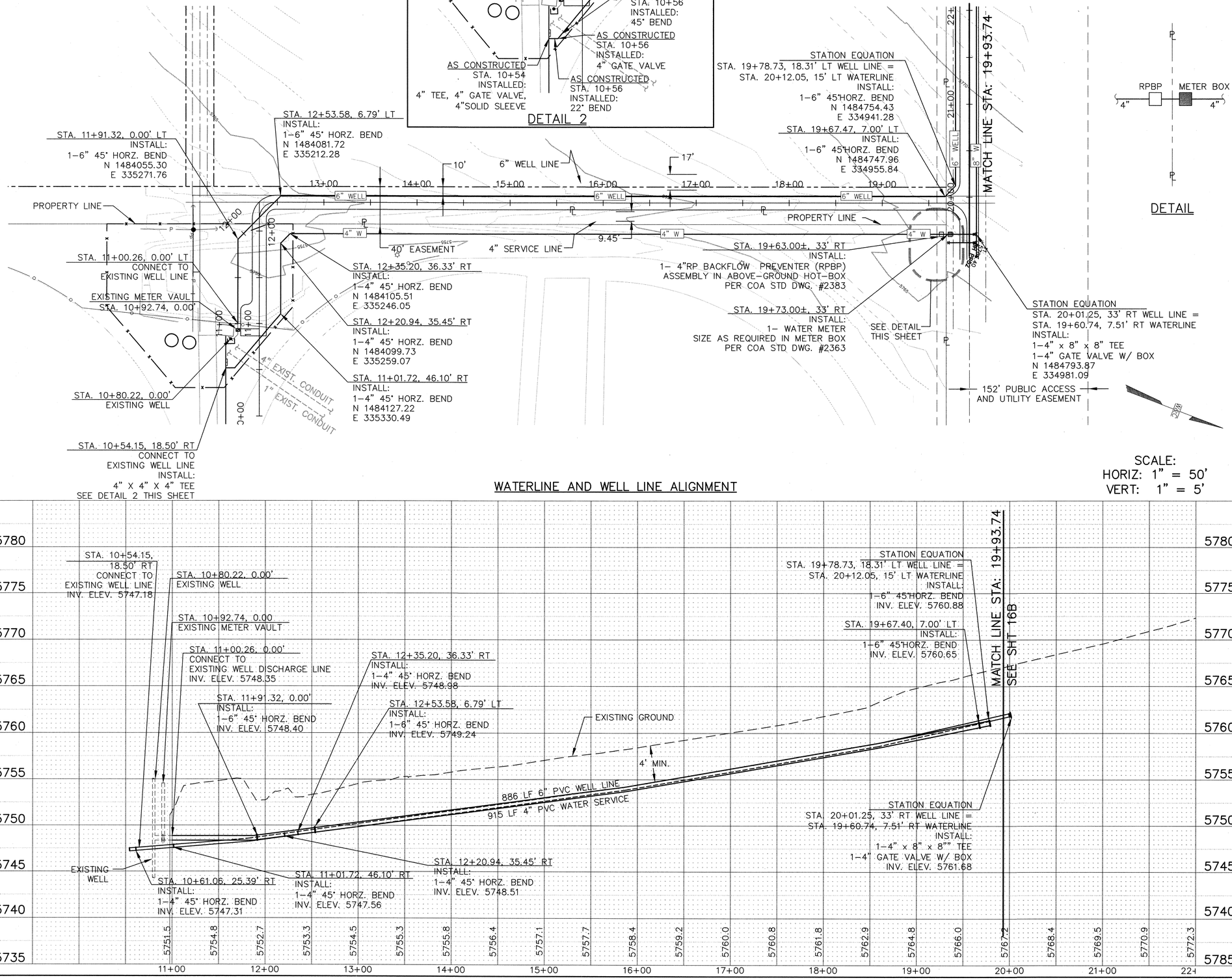
NO.	DATE	REMARKS
		REVISIONS
		WILSON & COMPANY, ENGINEERS & ARCHITECTS
	BY	DATE
DESIGNED BY	DDB	MAY. 05
DRAWN BY	DAH	MAY. 05
CHECKED BY	DDB	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATERLINE PLAN AND PROFILE STA. 10+00 – 17+09.99

Design Review Committee: APPROVED DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update: Mo./Day/Yr. | Mo./Day/Yr.

PROJECT NO. BCPW #TS 04-07-C C.O.A. # 760683
MAP NO. K-4, K-5
SHEET 16 OF 25

WILSON & COMPANY



SCANNED BY MESA REPRO

3 SHEET 16A ADDED PER REV. 3.

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
SURVEYED — DATE
ACCEPTANCE BY
FIELD INSPECTION BY — DATE
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~CCSF = 0.09996544437~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | DATE | BY

ENGINEER'S SEAL
DENNIS D. BRAND 9374 REGISTERED PROFESSIONAL ENGINEER 8/5/05

NO.	DATE	REMARKS / REVISIONS	BY
3	8/25/05	REALIGN WELL & WATER LINES	CRU

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB DATE MAY. 05
DRAWN BY DAH DATE MAY. 05
CHECKED BY DDB DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATERLINE & WELL LINE PNP, STA. 10+00 – 19+93.74

Design Review Committee	City Engineer Approval	Last Design Update		
			No./Day/Yr.	No./Day/Yr.

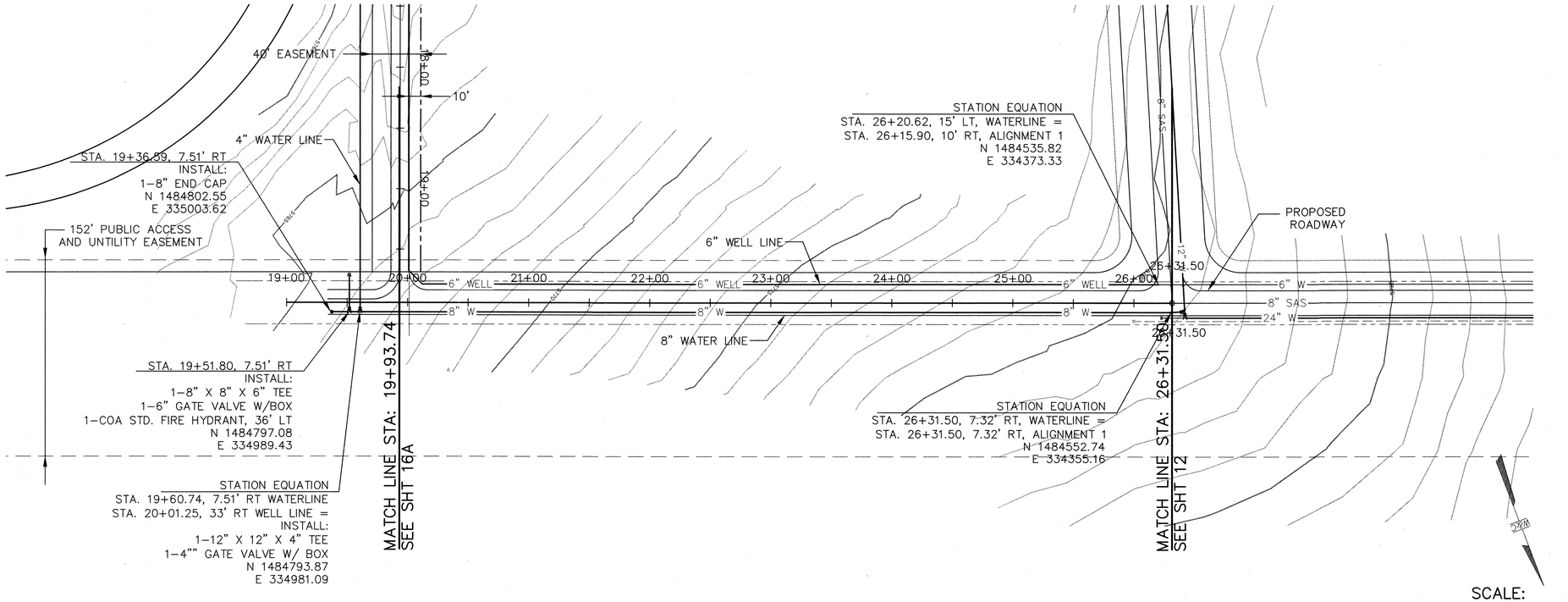
WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A. # 760683	K-4, K-5	16A	25

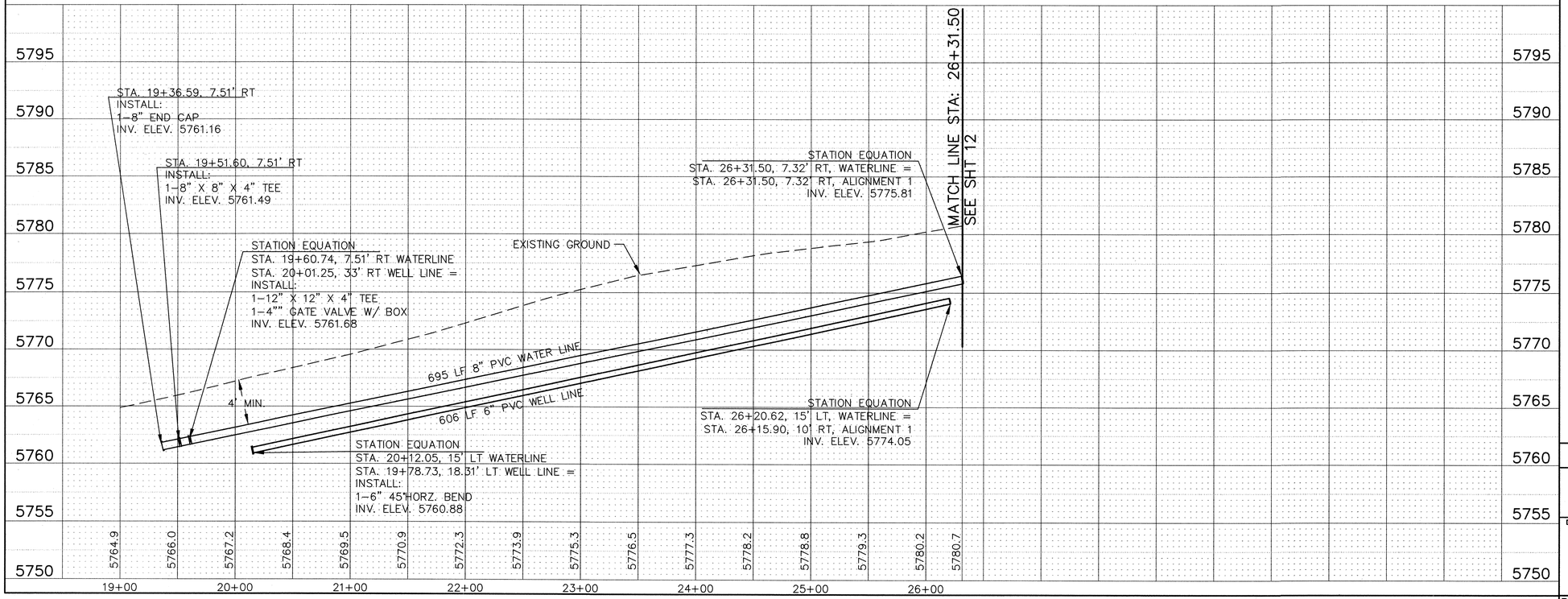
WILSON & COMPANY

X:\Public\PROJECTS\X4210019\WS\Sheets\PNP'S\Well 2\PNP-1.dwg 8/18/2005 3:59:20 PM MST

SCANNED BY
MESA REPRO



WELL WATERLINE ALIGNMENT



3 SHEET 16B ADDED PER REV. 3.

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
WORK INSPECTED BY — DATE
ACCEPTANCE BY — DATE
FIELD INFORMATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.00~~ ~~0.00036541127~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KENNETH D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
8/31/05

NO.	DATE	REMARKS	BY
3	8/25/05	REALIGN WELL & WATER LINES	CRU

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY — DDB — DATE MAY. 05
DRAWN BY — DAH — DATE MAY. 05
CHECKED BY — DDB — DATE MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
WATERLINE PLAN AND PROFILE STA. 19+93.74 – 26+31.50

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A. # 760683	K-4, K-5	16B	25

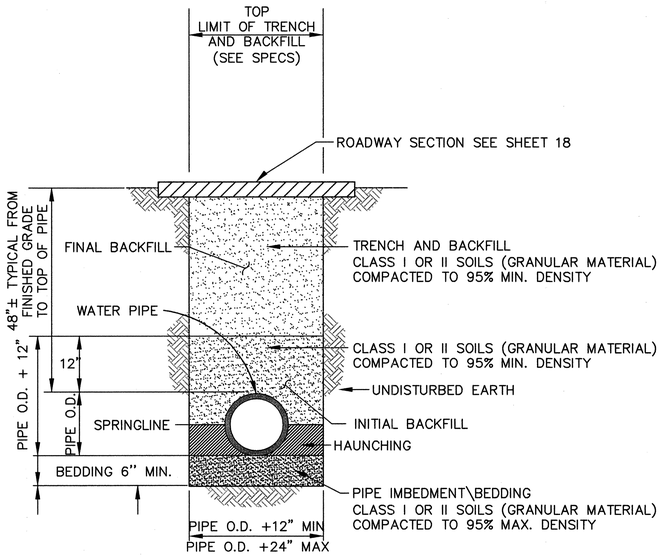
WILSON & COMPANY

X:\Public\PROJECTS\X4210019\WS\Sheets\PNP'S\Well 2\PNP-2.dwg 8/16/2005 1:52:28 PM MST

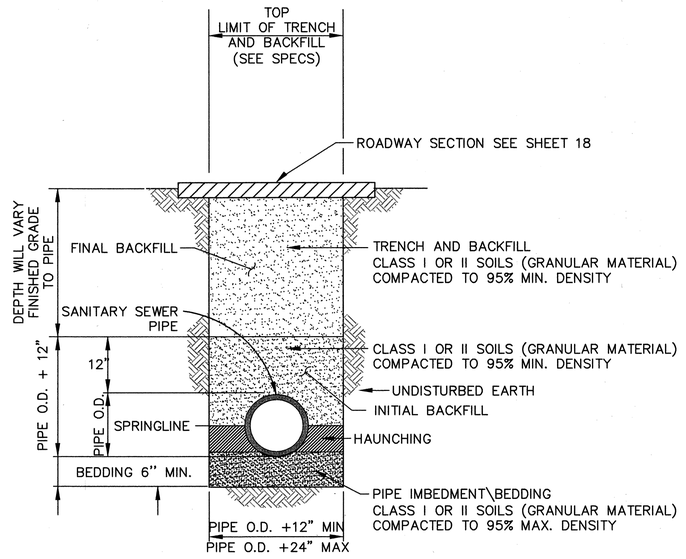
SCANNED BY
MESA REPRO

PIPE TRENCH NOTES (TYP.)

1. MECHANICAL TAMPERS SHALL NOT BE USED IN THE INITIAL BACKFILL REGION FOR FLEXIBLE PIPE, WHEN FLEXIBLE PIPE IS USED, CONTRACTOR SHALL, PRIOR TO THE START OF CONSTRUCTION PROVIDE THE PROPOSED COMPACTION METHOD ON THE INITIAL BACKFILL REGION TO THE CITY FOR APPROVAL.
2. MINIMUM CLASS "C" BEDDING WILL BE USED.



6", 12" AND 24" WATER TRENCH DETAIL
N.T.S.



SEWER TRENCH DETAIL
N.T.S.

WATERLINE RESTRAINED JOINT REQUIREMENTS

(1) PVC WATER PIPE THRUST RESTRAINT REQUIREMENTS
(2) DUCTILE IRON WATER PIPE THRUST REQUIREMENTS

LENGTHS OF PIPE TO BE RESTRAINED (FEET), (BASED UPON 215 psi)						
	FITTING TYPE					
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE (W/EQUAL SIZED LEGS)	DEAD END OR VALVE
(1) 6"	24'	10'	5'	3'	1'	54'
(1) 8"	31'	13'	7'	4'	1'	71'
(1) 10"	38'	16'	8'	4'	1'	85'
(1) 12"	44'	19'	9'	5'	1'	101'
(2) 12"	34'	15'	7'	4'	1'	54'
(2) 16"	44'	19'	9'	5'	1'	70'
(2) 18"	49'	21'	10'	5'	1'	78'
(2) 24"	63'	26'	13'	7'	1'	101'

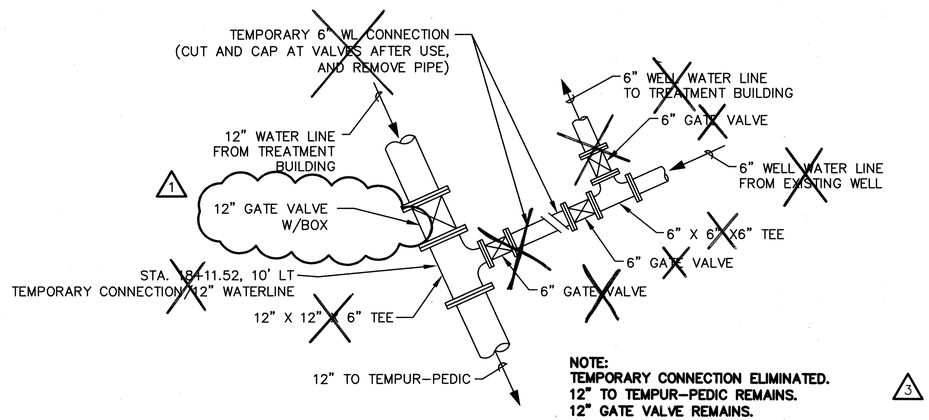
CONDITIONS:

PIPE MATLS: PVC, D.I.
SOIL TYPE: GC
TEST PRESSURE: 150 PSI
SAFETY FACTOR: 2:1
DEPTH OF BURY: 4' T.O.P.

(SUBMIT CALCULATIONS FOR THOSE DESIGNS NOT MEETING CONDITIONS OR PIPE MATERIALS AND SIZES.)

THRUST RESTRAINT NOTE

ALL PIPING, BOTH PVC AND DIP SHALL BE FULLY RESTRAINED JOINTS. NO CONCRETE BLOCKING FOR BENDS & FITTINGS SHALL BE UTILIZED. CONCRETE VALVE ANCHORAGE IS ACCEPTABLE.



TEMPORARY CONNECTION DETAIL
N.T.S.

RECORD DRAWING
DATE 5/22/06

Per Rev # 1
8/2/05

AS-BUILT INFORMATION
CONTRACTOR
WORK STARTED BY / DATE
STARTED BY'S ACCEPTANCE BY / DATE
FINAL INSPECTION BY / DATE
VERIFICATION BY / DATE
DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO.

BENCH MARKS
ACS 1-K5
(NO. PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~000' = 0.0999654427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/23/06

NO.	DATE	REVISIONS	BY
1	8/3/05	MOVE 12" GATE VALVE NOTE W/LEADER	DAH
		REMARKS	BY

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DDB MAY. 05
DRAWN BY DAH MAY. 05
CHECKED BY DDB MAY. 05

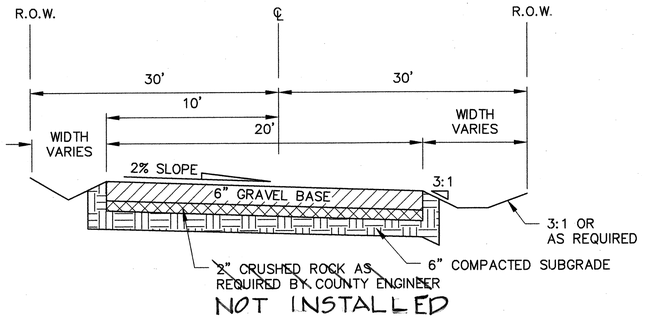
COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
MISCELLANEOUS WATER AND SEWER DETAILS

Design Review Committee: APPROVED AUG 29 2005 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. BCPW #TS 04-07-C C.O.A #760683 | MAP NO. K-4, K-5 | SHEET 17 OF 25

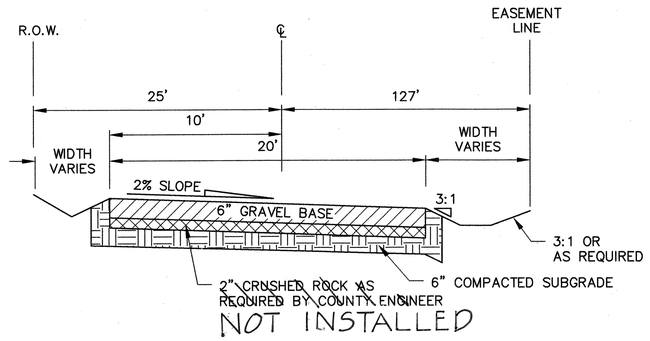
WILSON & COMPANY



TYPICAL ACCESS ROAD SECTION ON FUTURE TEMPUR–PEDIC ROAD

N.T.S.

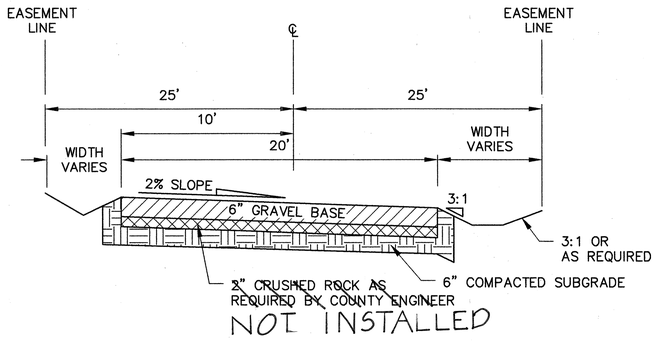
STA. 10+00.00 TO 26+.45



TYPICAL ACCESS ROAD SECTION ON FUTURE LADERA ROAD

N.T.S.

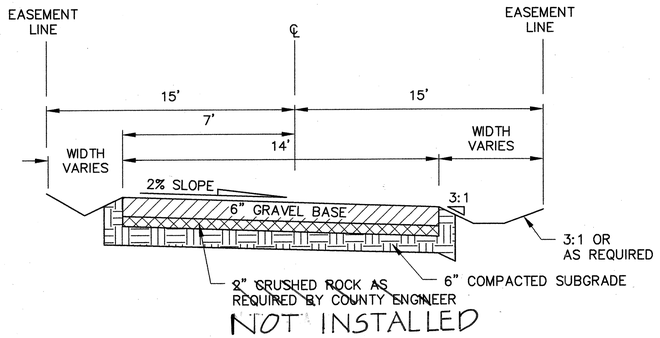
STA. 26+31.50 TO 38+14.32



TYPICAL ACCESS ROAD SECTION ON N–S ACCESS ROAD TO RESERVOIR SITE

N.T.S.

STA. 38+14.32 TO 49+50.66



TYPICAL ACCESS DRIVE SECTION ON WELL ACCESS ALIGNMENT

N.T.S.

STA. 10+00.00 TO 17+00.00

SCANNED BY MESA REPRO

RECORD DRAWING
DATE 5/23/06

AS–BUILT INFORMATION
CONTRACTOR — DATE
WORK VERIFIED BY — DATE
INSPECTOR'S FIELD DISTANCE BY — DATE
VERIFICATION BY — DATE
CORRECTED BY — DATE

BENCH MARKS
ACS 1–K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~668' = 0.099864427~~
ELEVATION = 5794.218 FT. (NAVD 29)

MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/23/06

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	DDB — MAY. 05
		DRAWN BY	DAH — MAY. 05
		CHECKED BY	DDB — MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
MISCELLANEOUS ROADWAY DETAILS

Design Review Committee: APPROVED DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update — Mo./Day/Yr.

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. BCPW #TS 04–07–C C.O.A #760683
MAP NO. K–4, K–5
SHEET 18 OF 25

WILSON & COMPANY

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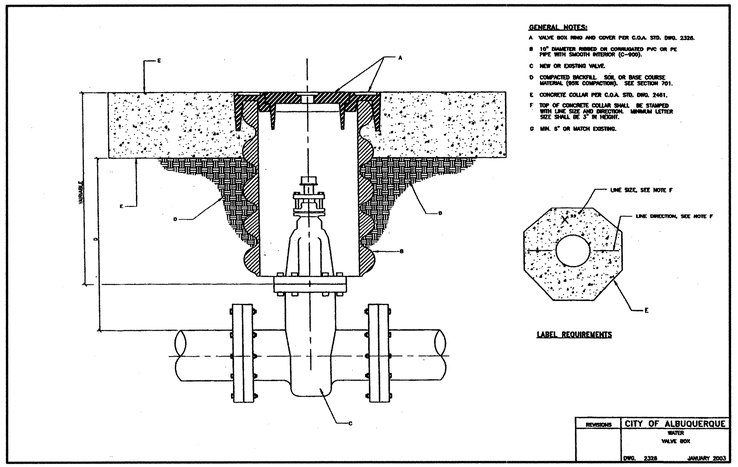


LABEL REQUIREMENTS

GENERAL NOTES:

A. VALVE BOX RING AND COVER PER C.O.A. STD. DWG. 2326.

B. 10" DIAMETER RIBBED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR (C-900).

C. NEW OR EXISTING VALVE.

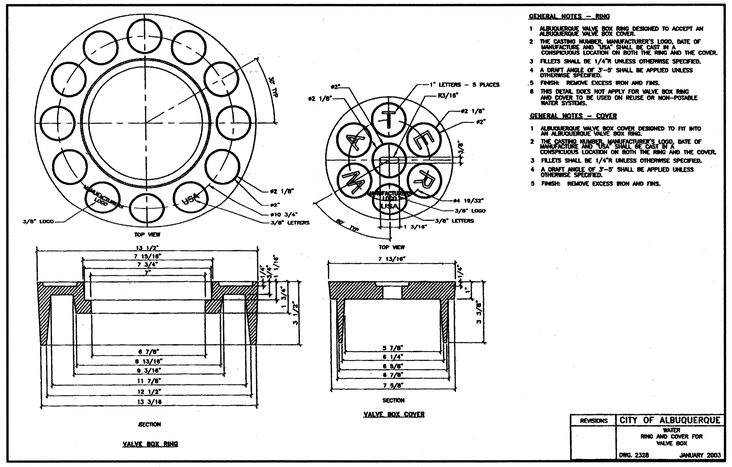
D. COMPACTED BACKFILL: SOIL OR BASE COURSE MATERIAL (NON COMPACTION). SEE SECTION 701.

E. CONCRETE COLLAR PER C.O.A. STD. DWG. 2461.

F. TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

G. MIN. 6" OR MATCH EXISTING.

REVISIONS	CITY OF ALBUQUERQUE
	WATER VALVE BOX
	DWG. 2328 JANUARY 2003



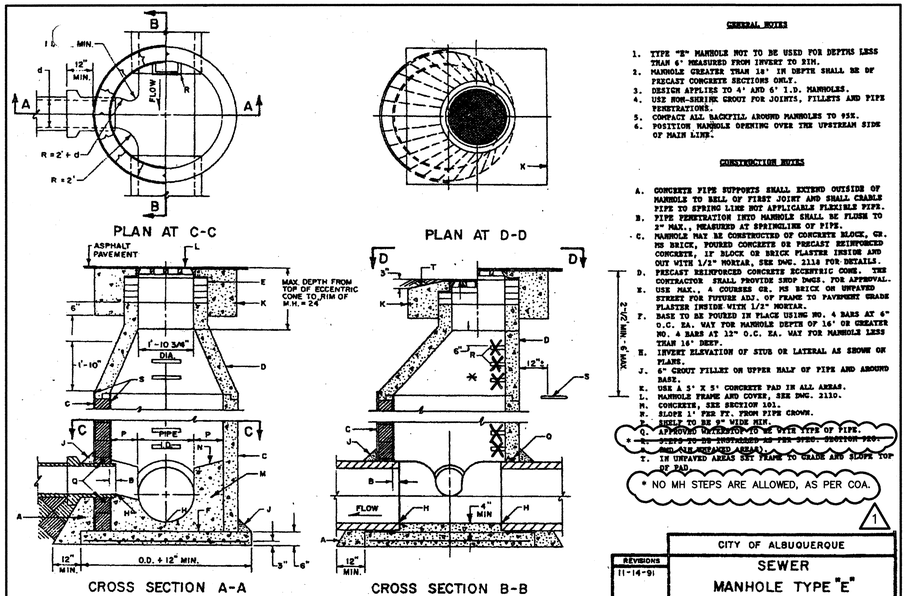
GENERAL NOTES - RING

1. ALBUQUERQUE VALVE BOX RING DESIGNED TO ACCEPT AN ALBUQUERQUE VALVE BOX COVER.
2. THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
3. FILLETS SHALL BE 1/4"R UNLESS OTHERWISE SPECIFIED.
4. A DRAFT ANGLE OF 7°-0' SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
5. FINISH: REMOVE EXCESS IRON AND FINS.
6. THIS DETAIL DOES NOT APPLY FOR VALVE BOX RING AND COVER TO BE USED ON REUSE ON NON-POTABLE WATER SYSTEMS.

GENERAL NOTES - COVER

1. ALBUQUERQUE VALVE BOX COVER DESIGNED TO FIT INTO AN ALBUQUERQUE VALVE BOX RING.
2. THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
3. FILLETS SHALL BE 1/4"R UNLESS OTHERWISE SPECIFIED.
4. A DRAFT ANGLE OF 7°-0' SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
5. FINISH: REMOVE EXCESS IRON AND FINS.

REVISIONS	CITY OF ALBUQUERQUE
	WATER RING AND COVER FOR VALVE BOX
	DRG. 2328 JANUARY 2003



GENERAL NOTES

1. TYPE "E" MANHOLE NOT TO BE USED FOR DEPTHS LESS THAN 6' MEASURED FROM INVERT TO RIM.
2. MANHOLE GREATER THAN 18' IN DEPTH SHALL BE OF PRECAST CONCRETE SECTIONS ONLY.
3. DESIGN APPLIES TO 4' AND 6' I.D. MANHOLES.
4. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PIPE PENETRATIONS.
5. COMPACT ALL BACKFILL AROUND MANHOLES TO 95%.
6. POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES

A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE NOT APPLICABLE FLEXIBLE PIPE.
B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
C. MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, GR. MS BRICK, POURED CONCRETE OR PRECAST REINFORCED CONCRETE, IF BLOCK OR BRICK PLASTER INSIDE AND OUT WITH 1/2" MORTAR, SEE DWG. 2118 FOR DETAILS.
D. PRECAST REINFORCED CONCRETE ECCENTRIC CONE. THE CONTRACTOR SHALL PROVIDE SHOP DWGS. FOR APPROVAL.
E. USE MAX., 4 COURSES GR., MS BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF FRAME TO PAVEMENT GRADE PLASTER INSIDE WITH 1/2" MORTAR.
F. BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR MANHOLE DEPTH OF 16' OR GREATER NO. 4 BARS AT 12" O.C. EA. WAY FOR MANHOLE LESS THAN 16' DEEP.
H. INVERT ELEVATION OF STUB OR LATERAL AS SHOWN ON PLANS.
J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
L. MANHOLE FRAME AND COVER, SEE DWG. 2110.
M. CONCRETE, SEE SECTION 101.
N. SLOPE 1' PER FT. FROM PIPE CROWN.
P. INSERT TO BE 6" WIDE MIN.
Q. APPROVED ALTERNATE TO BE OVER TYPE OF PIPE.
R. STEPS TO BE INSTALLED AS PER STD. SPECIFICATION 2460. (ALL EMBEDDED AREAS).
T. IN UNPAVED AREAS SET FRAME TO GRADE AND SLOPE TOP OF PAD.

* NO MH STEPS ARE ALLOWED, AS PER COA.

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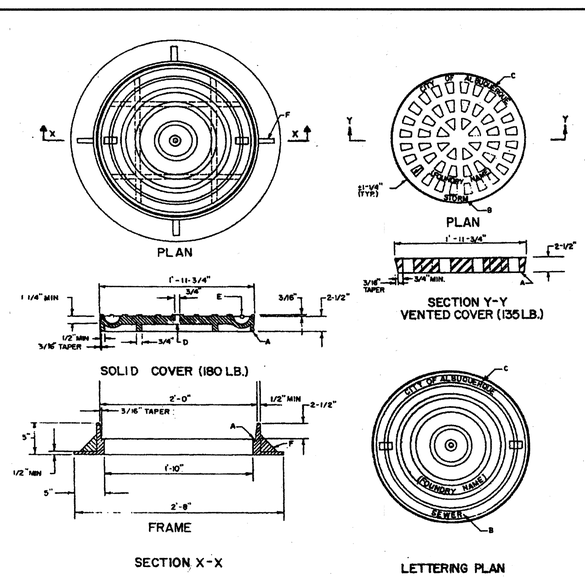
REVISIONS	CITY OF ALBUQUERQUE
11-14-91	SEWER MANHOLE TYPE "E"
	DWG. 2102 AUG. 1986



GENERAL NOTES:

1. STANDARD CAST IRON M.H. FRAME AND COVER WEIGHTS: COVER = 180 LBS., FRAME = 145 LBS. TOTAL = 325 LBS. (TOLERANCE ± 5%)
2. REFERENCE SPEC. SECTION 130.

CONSTRUCTION NOTES:

A. MACHINED OR GROUND BEARING SURFACES.
B. "SEWER", "WATER", OR "STORM" CAST ON COVER TO IDENTIFY SANITARY SEWER, WATER OR STORM DRAINAGE SYSTEMS RESPECTIVELY.
C. LETTER SIZE TO BE 1" MIN. IN HEIGHT, TYPICAL.
D. VENT HOLE REQUIRED.
E. MONOLITHIC CAST IRON OR STEEL ROD INSERTS AT MANUFACTURER'S OPTION. IF INSERT IS PROVIDED IT MUST HAVE 3/8" MIN. COVER AND 3/4" END EMBEDMENT IN CASTING.
F. GUSSETS OPTIONAL IF REQUIRED BY MANUFACTURER.

REVISIONS	CITY OF ALBUQUERQUE
	SEWER MANHOLE FRAME AND COVERS
	DWG. 2110 AUG. 1986

RECORD DRAWING
DATE 5/22/06

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
PwReq'd 8/3/05

AS-BUILT INFORMATION

CONTRACTOR

	DATE
WORK STARTED BY:	
WORK 80% COMPLETED BY:	DATE
FINAL ACCEPTANCE BY:	DATE
FIELD VERIFICATION BY:	DATE
DRAWINGS CORRECTED BY:	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS 1-K5

(NO PUBLISHED DESCRIPTION AVAILABLE)

COORDS. 1483795.0076, 333607.752 (NAD 1927)

~~666F = 0.0099866444427~~

ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DENNIS D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
5/22/06

NO.	DATE	BY
1	8/3/05	DAH

REMARKS

REVISIONS

CORRECT STD DWG NUMBER	DDB	MAY. 05
WILSON & COMPANY, ENGINEERS & ARCHITECTS	DAH	MAY. 05
DESIGNED BY	DDB	MAY. 05
DRAWN BY	DAH	MAY. 05
CHECKED BY	DDB	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
COA STANDARD DETAILS

Design Review Committee: APPROVED AUG 2 0 2005 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update: lbs./day/ft. | lbs./day/ft.

PROJECT NO.	BCPW #TS 04-07-C C.O.A #760683	MAP NO.	K-4, K-5	SHEET	19	OF	25

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY

SCANNED BY
MESA REPRO

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MESA REPRO

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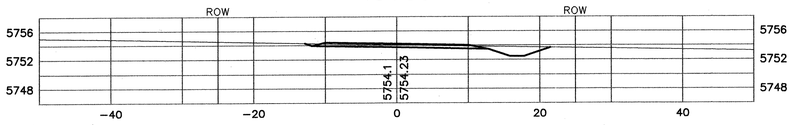

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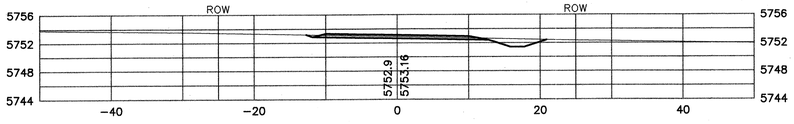

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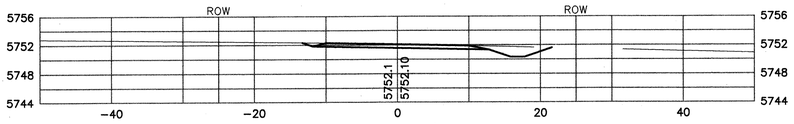

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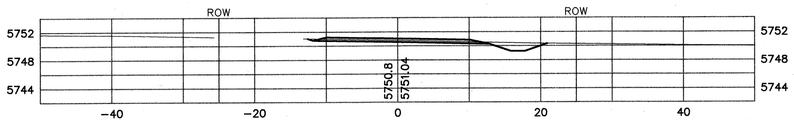

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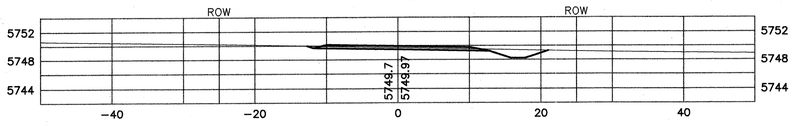

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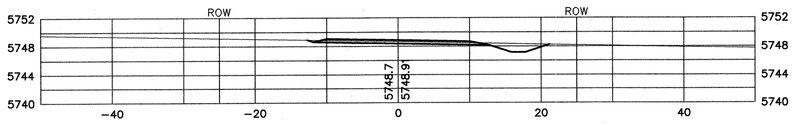

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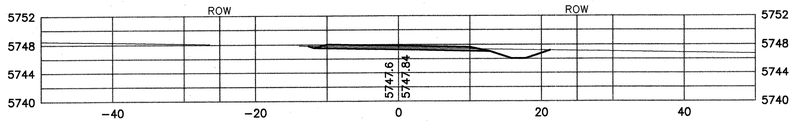

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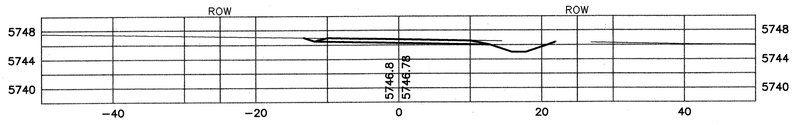

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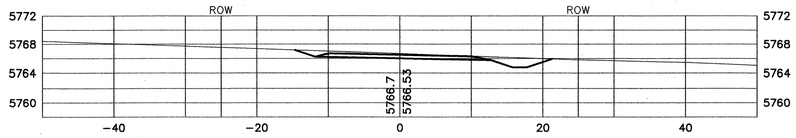

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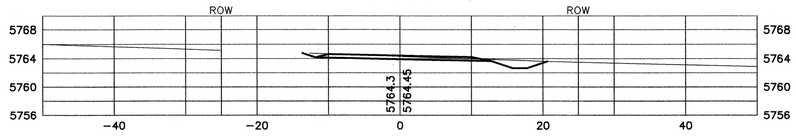

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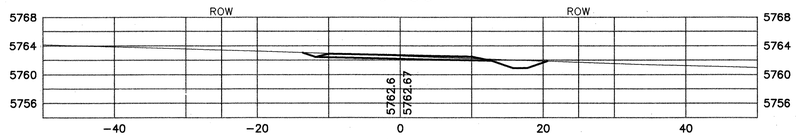

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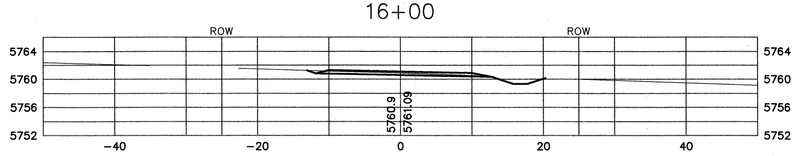

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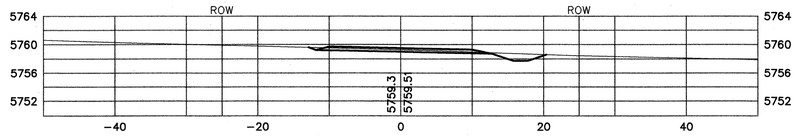

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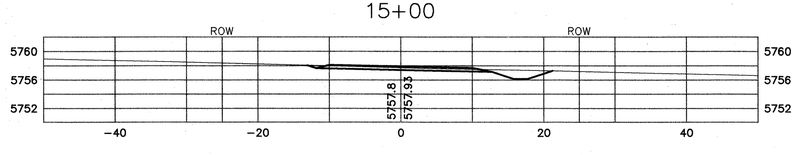

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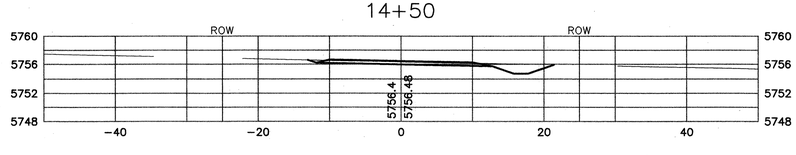

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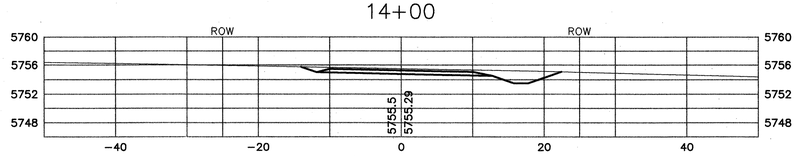

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTIONS BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.0006 = 0.0999666444427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
KENNETH D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/24/06

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	MAY. 05
		DRAWN BY	MAY. 05
		CHECKED BY	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee: APPROVED DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO.	BCPW #TS 04-07-C C.O.A #760683	MAP NO.	SHEET	OF
		K-4, K-5	20	25

WILSON & COMPANY

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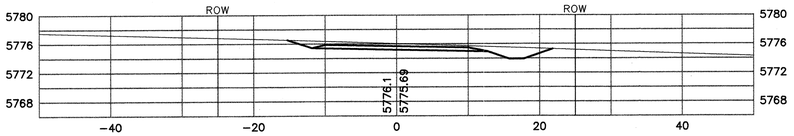

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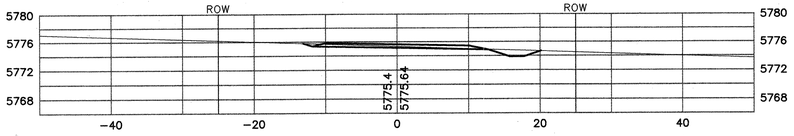

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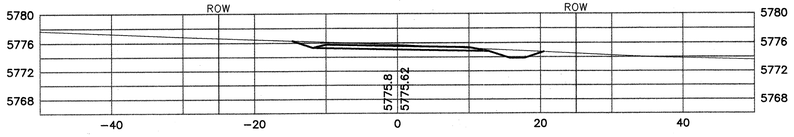

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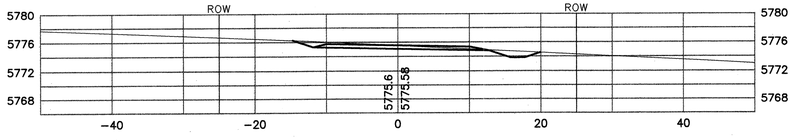

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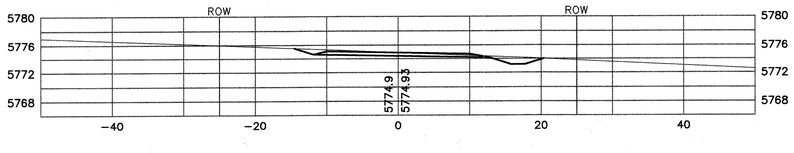

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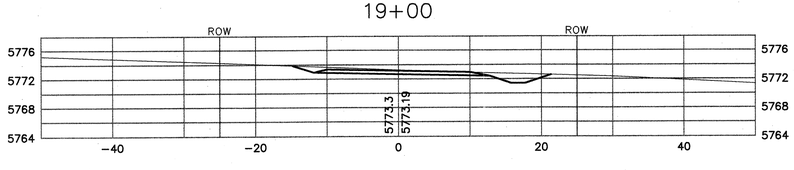

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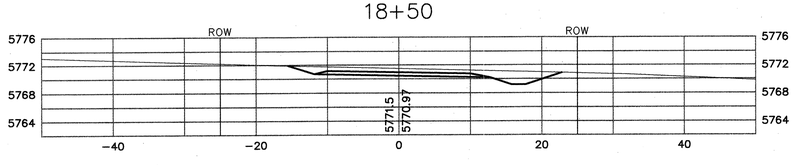

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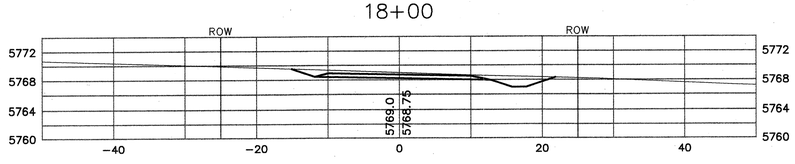

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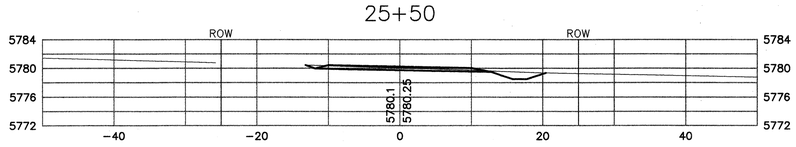

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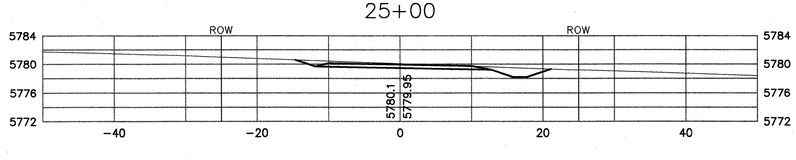

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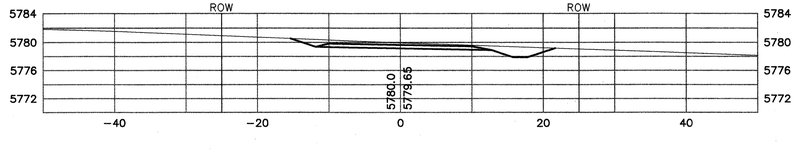

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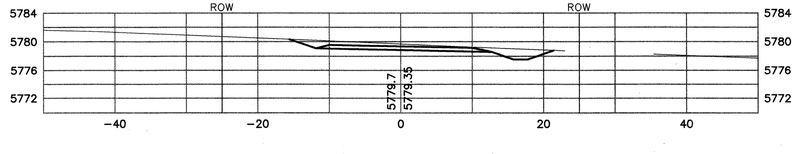

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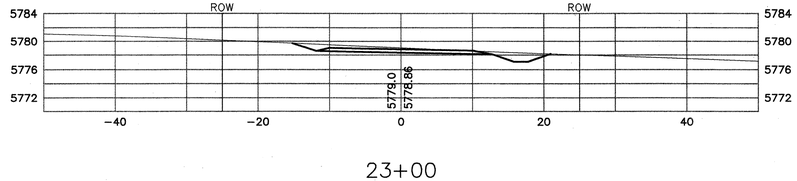

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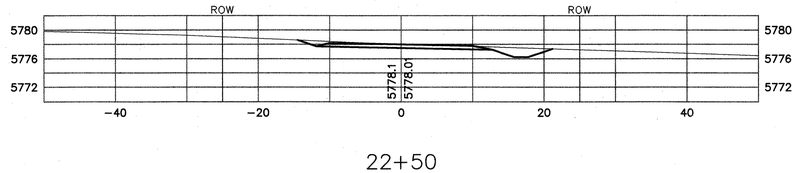

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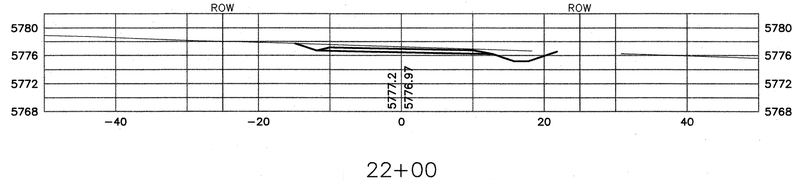

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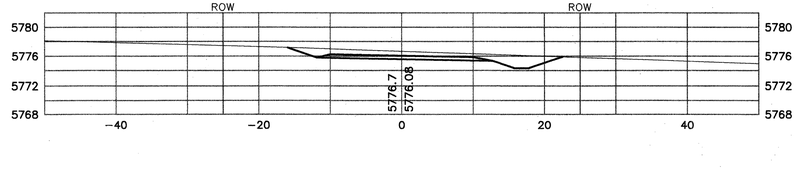

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTORS NOTES BY — DATE
FIELD VERIFICATIONS BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,1333607.752 (NAD 1927)
~~CCGF = 0.9999654427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENNIS D. BRAND — NEW MEXICO — 8374 — REGISTERED PROFESSIONAL ENGINEER — 5/24/05

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY — DDB — MAY. 05
DRAWN BY — DAH — MAY. 05
CHECKED BY — DDB — MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee | City Engineer Approval | Last Design Update

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A #760883	K-4, K-5	21	25

WILSON & COMPANY

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SCANNED BY
MESA REPRO

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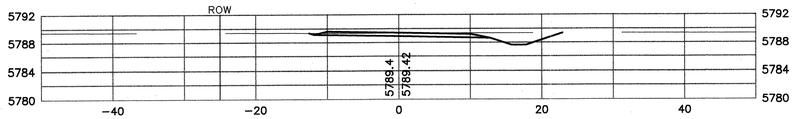

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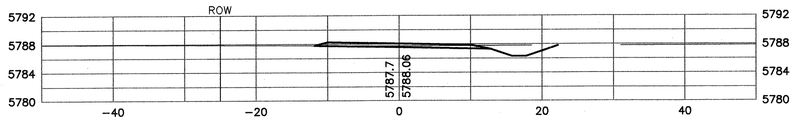

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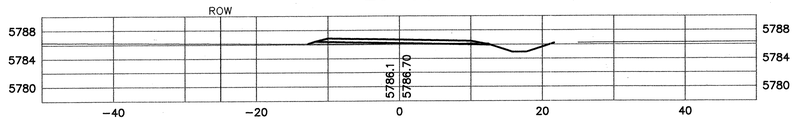

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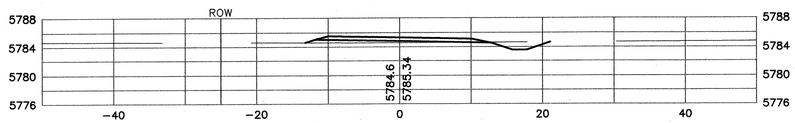

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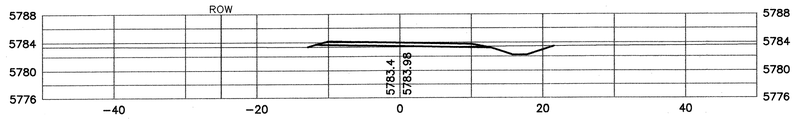

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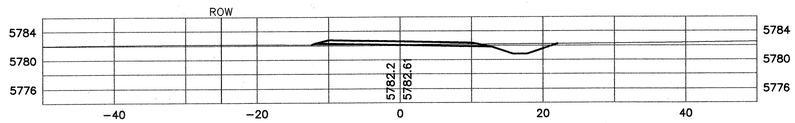

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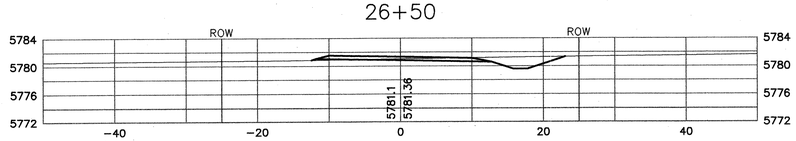

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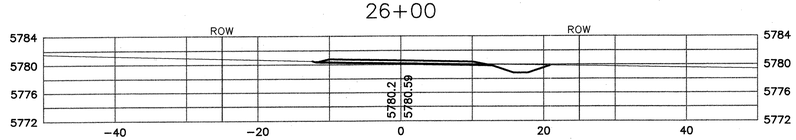

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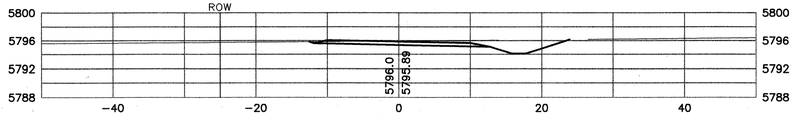

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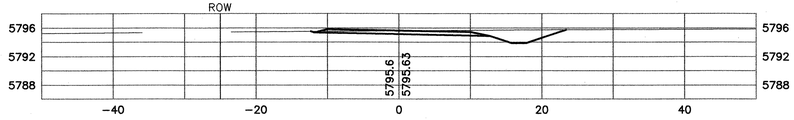

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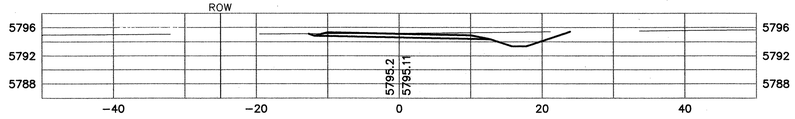

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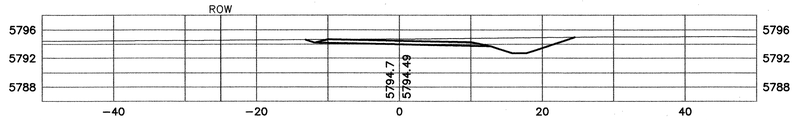

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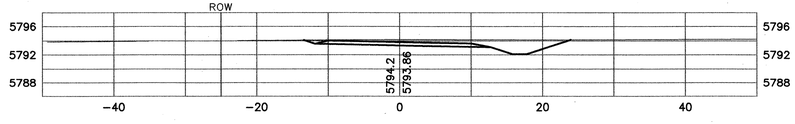

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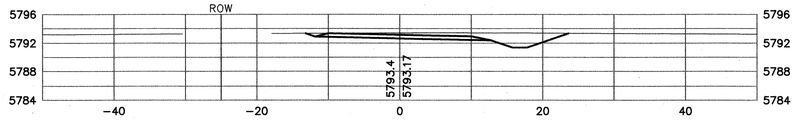

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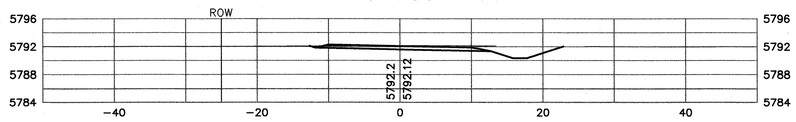

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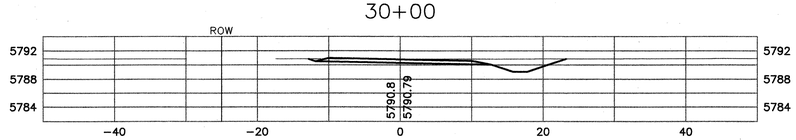

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTION BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~CSCF = 0.09995544127~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
JAMES D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/22/06

NO.	DATE	REMARKS / REVISIONS	BY
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	MAY. 05
		DRAWN BY	MAY. 05
		CHECKED BY	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee | City Engineer Approval | Last Design Update

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. BCPW #TS 04-07-C C.O.A #760683 | MAP NO. K-4, K-5 | SHEET 22 OF 25

WILSON & COMPANY

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SCANNED BY
MESA REPRO

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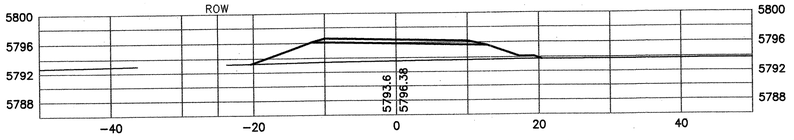

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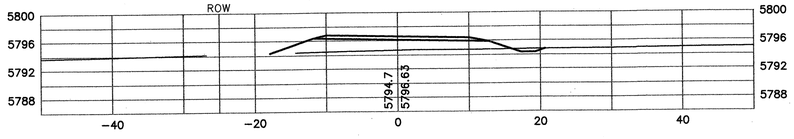

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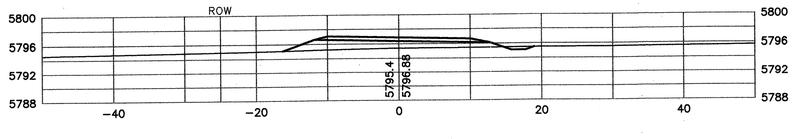

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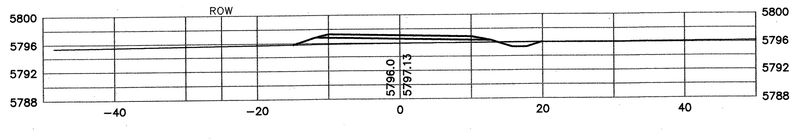

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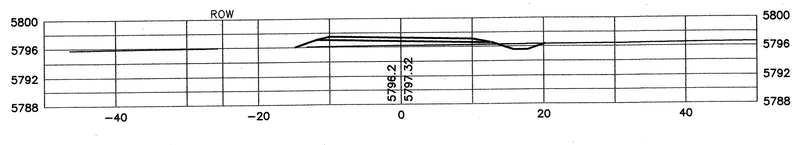

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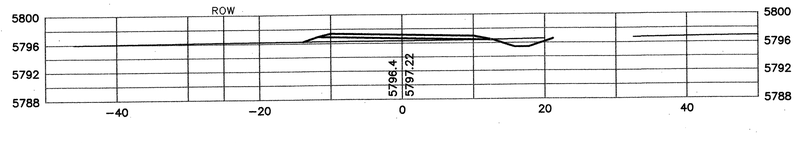

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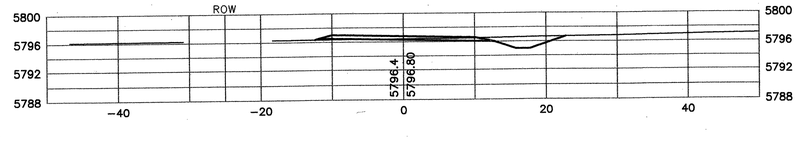

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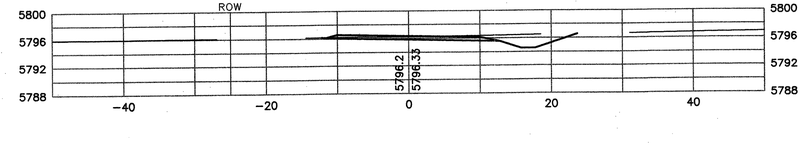

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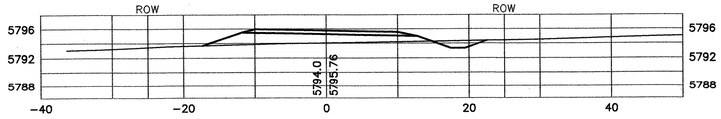

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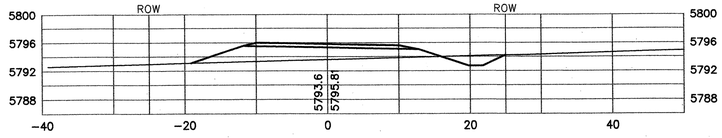

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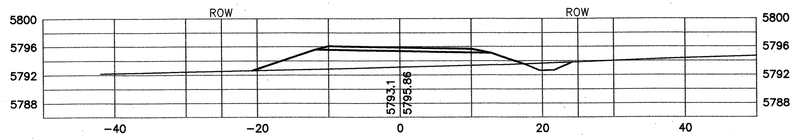

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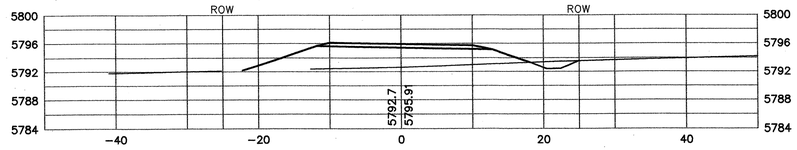

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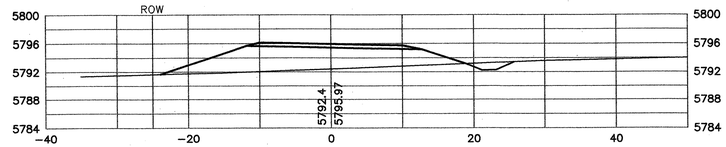

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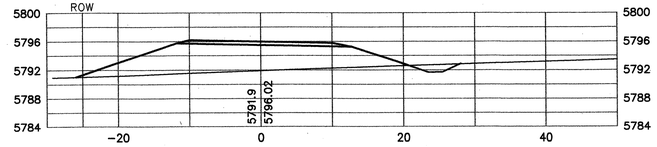

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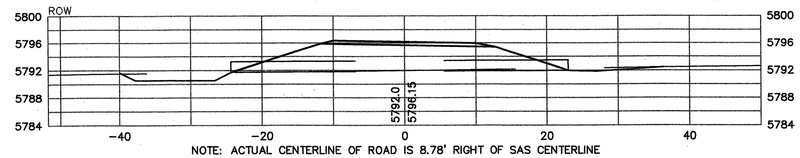

NOTE: ACTUAL CENTERLINE OF ROAD IS 8.78' RIGHT OF SAS CENTERLINE

RECORD DRAWING
DATE 5/22/06

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

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.005' = 0.009085 M 1927~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JESSE D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/18/05

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	MAY. 05 DDB
		DRAWN BY	MAY. 05 DAH
		CHECKED BY	MAY. 05 DDB

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. TS 04-07-C | MAP NO. K-4, K-5 | SHEET 23 OF 25

WILSON & COMPANY

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SCANNED BY
MESA REPRO

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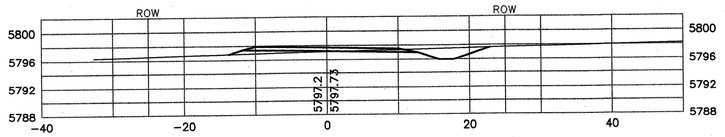

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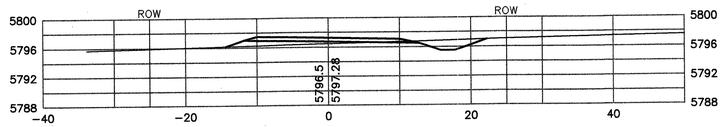

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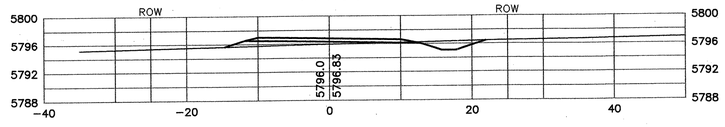

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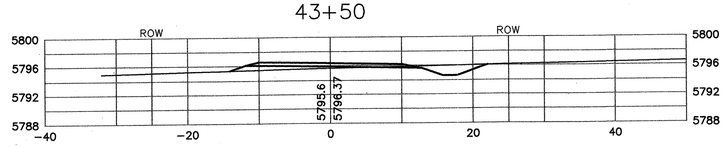

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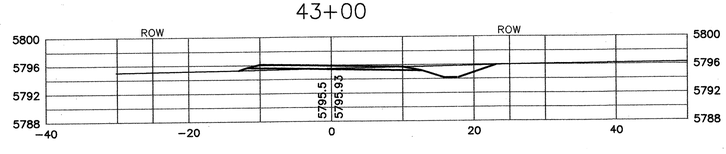

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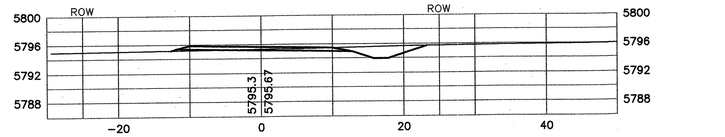

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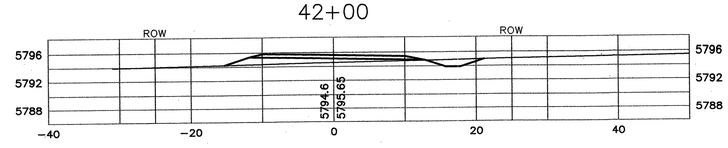

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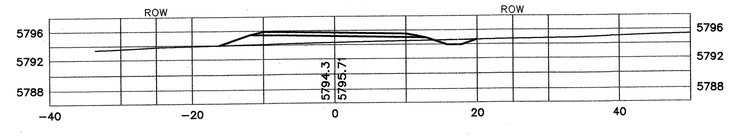

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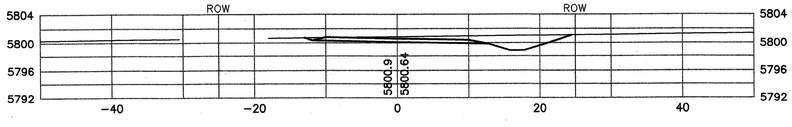

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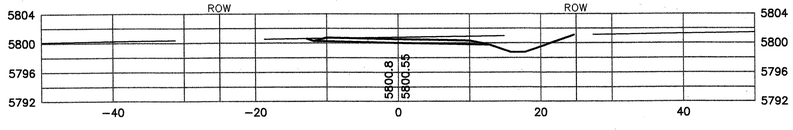

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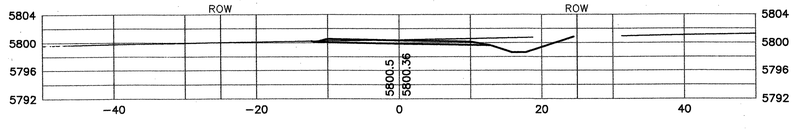

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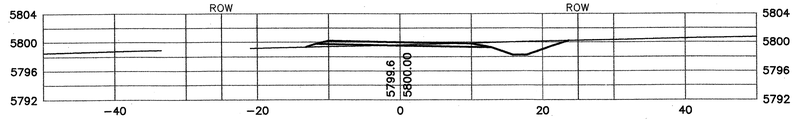

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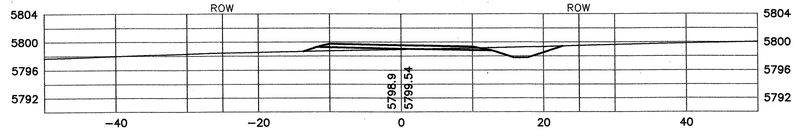

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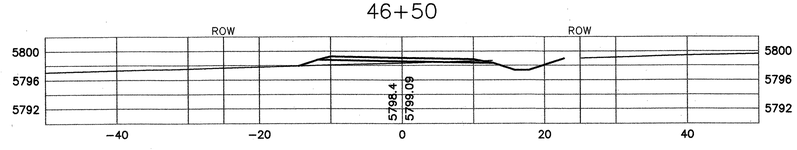

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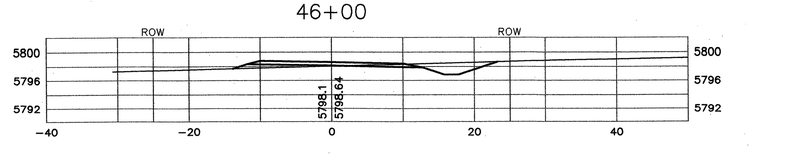

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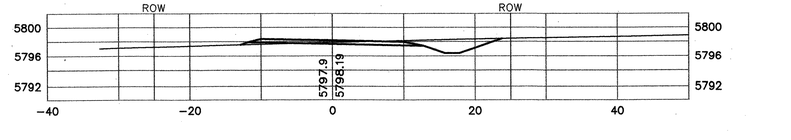

RECORD DRAWING
DATE 5/23/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY / DATE
INSPECTED BY / DATE
ACCEPTANCE BY / DATE
FIELD VERIFICATION BY / DATE
DRAWING CORRECTED BY / DATE

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.005' = 0.0999864444427~~
ELEVATION = 5794.218 FT. (NAVD 29)

MICRO-FILM INFORMATION
RECORDED BY / DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. / BY / DATE

ENGINEER'S SEAL
JAMES D. BRAND
NEW MEXICO
8374
REGISTERED PROFESSIONAL ENGINEER
5/16/05

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	DDB
		DRAWN BY	DAH
		CHECKED BY	DDB

MAY. 05
MAY. 05
MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION
ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO. TS 04-07-C | MAP NO. K-4, K-5 | SHEET 24 OF 25

WILSON & COMPANY

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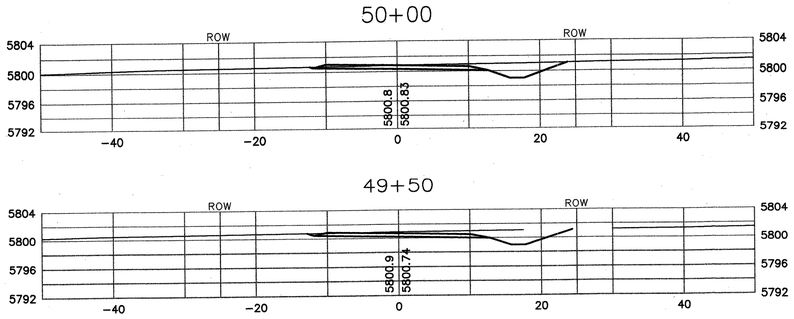

SCANNED BY
MESA REPRO

RECORD DRAWING
DATE 5/22/06

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

BENCH MARKS

ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~0.999865444427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. BRAND
NEW MEXICO
6374
REGISTERED PROFESSIONAL ENGINEER
5/22/06

NO.	DATE	REMARKS
		REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	DDB
DRAWN BY	DAH
CHECKED BY	DDB
	MAY. 05
	MAY. 05
	MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee — DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update

No./Dsgn'r.	No./Dsgn'r.

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

PROJECT NO.	MAP NO.	SHEET	OF
TS 04-07-C	K-4, K-5	25	25

WILSON & COMPANY

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SCANNED BY
MESA REPRO

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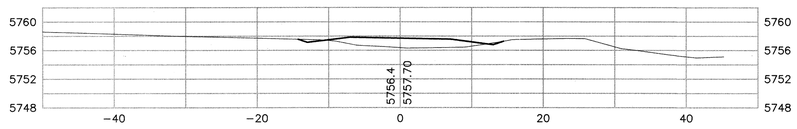

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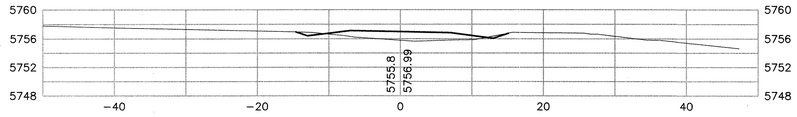

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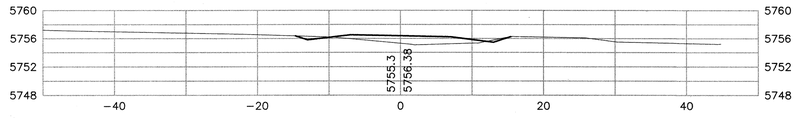

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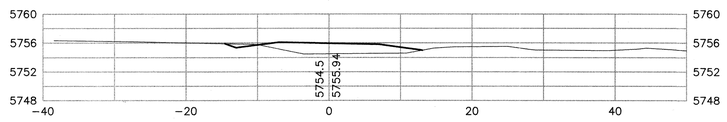

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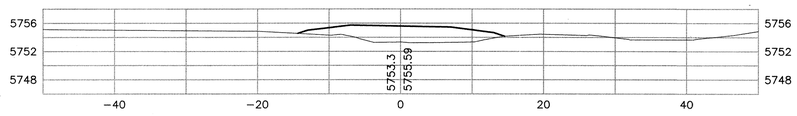

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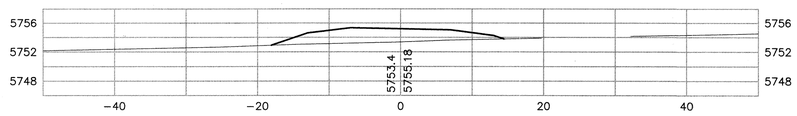

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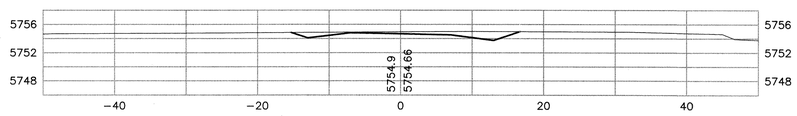

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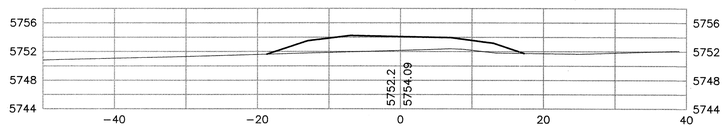

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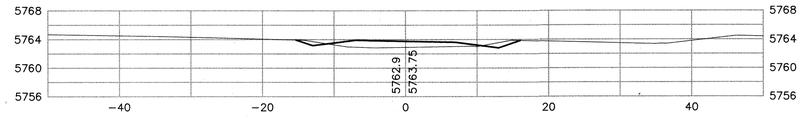

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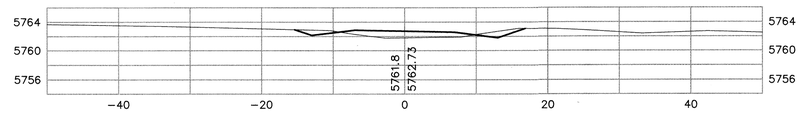

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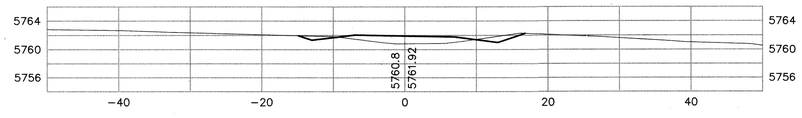

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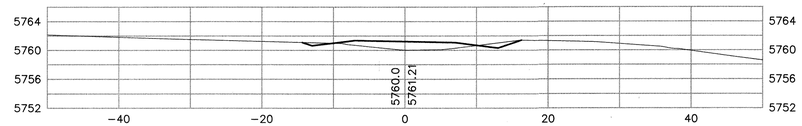

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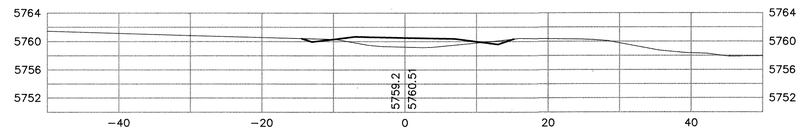

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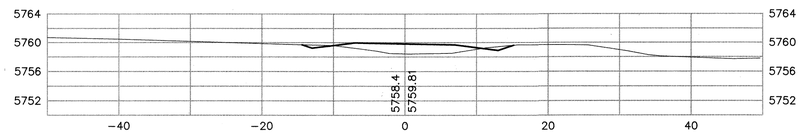

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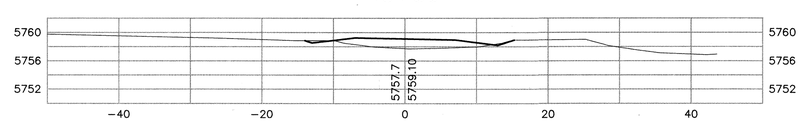

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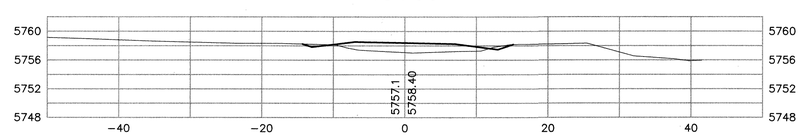

3 SHEET 25A ADDED PER REV. 3.

RECORD DRAWING
DATE 5/22/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTED BY — ACCEPTANCE BY — DATE
FIELD LOCATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~CSF = 0.9999654427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | DATE | BY

ENGINEER'S SEAL
KENNETH D. BRAND 8374 REGISTERED PROFESSIONAL ENGINEER
8/31/05

NO.	DATE	REMARKS	BY
		REVISIONS	
		WILSON & COMPANY, ENGINEERS & ARCHITECTS	
		DESIGNED BY	DDB — MAY. 05
		DRAWN BY	DAH — MAY. 05
		CHECKED BY	DDB — MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO.	MAP NO.	SHEET
BCPW #TS 04-07-C C.O.A #760683	K-4, K-5	25A OF 25

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY

SCANNED BY
MESA REPRO

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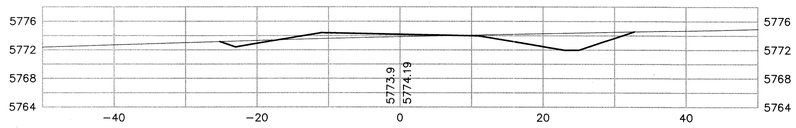

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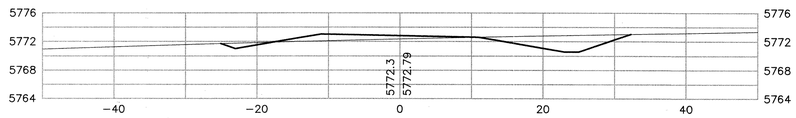

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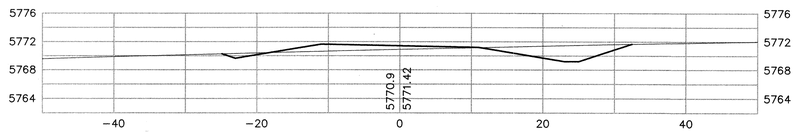

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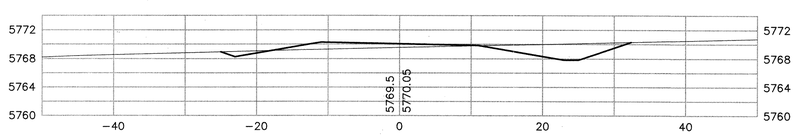

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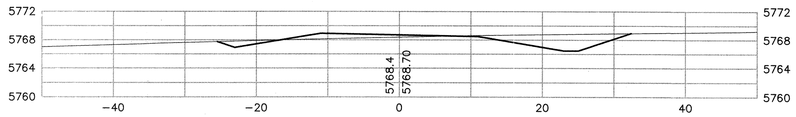

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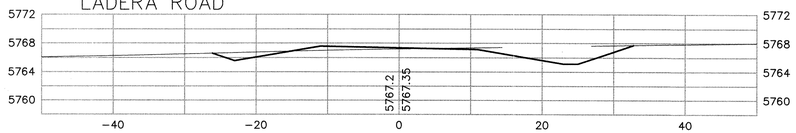
LADERA ROAD



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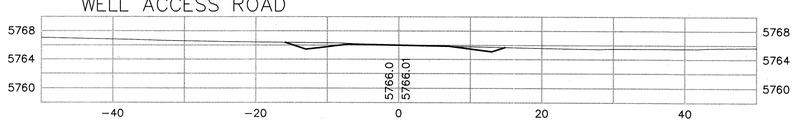
WELL ACCESS ROAD



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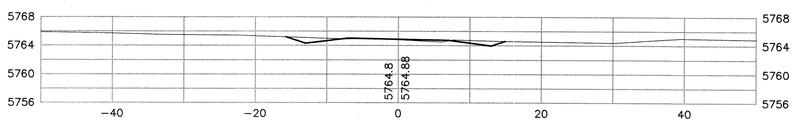

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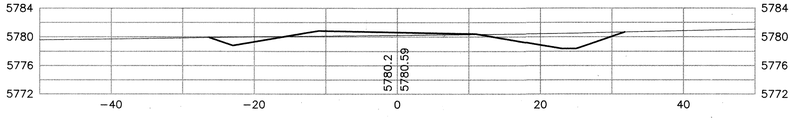

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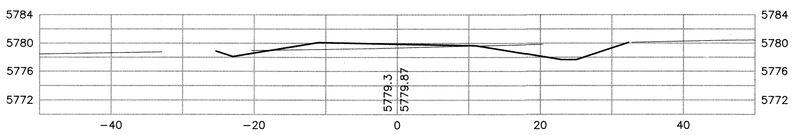

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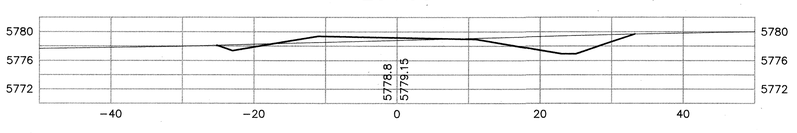

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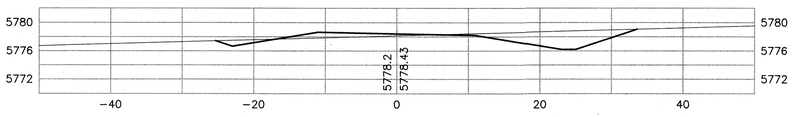

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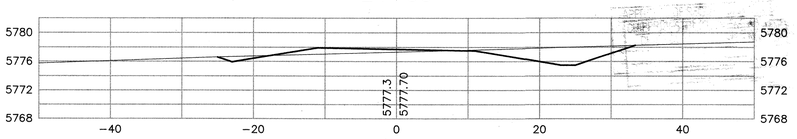

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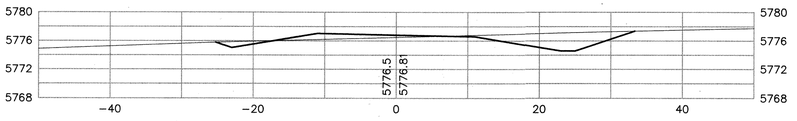

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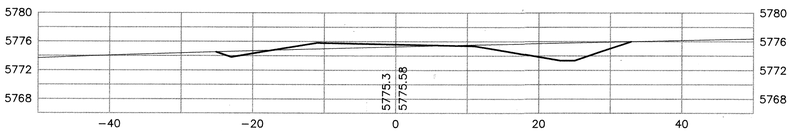

3 SHEET 25B ADDED PER REV. 3.

RECORD DRAWING
DATE 5/23/06

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
FIELD INSPECTION ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS 1-K5
(NO PUBLISHED DESCRIPTION AVAILABLE)
COORDS. 1483795.076,333607.752 (NAD 1927)
~~COOF = 0.9999654427~~
ELEVATION = 5794.218 FT. (NAVD 29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DENIS D. BRAND — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 8374
5/31/05

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY — DDB — MAY. 05
DRAWN BY — DAH — MAY. 05
CHECKED BY — DDB — MAY. 05

COUNTY OF BERNALILLO PUBLIC WORKS DIVISION

ROADWAY AND WATER/SEWER LINES
INDUSTRIAL PARK WATER SYSTEM
ROADWAY SECTIONS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO.	MAP NO.	SHEET	OF
BCPW #TS 04-07-C C.O.A #760683	K-4, K-5	25B	25

WCEA FILE NO. X4210019
BID PKG. C – MAY. 2005

WILSON & COMPANY