Record Drawing

26-741982-07

SCANNED BY PLANNING

CONSTRUCTION PLANS

FOR

VILLA DE LA CHAMISA UNIT 2

UTILITY & PAVING IMPROVEMENTS

CITY OF ALBUQUERQUE
NEW MEXICO
MARCH 2005

RGE

INDEX TO DRAWINGS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, David Soule of the firm of Rio Grande Engineering, a Registered Professional Engineer in the State of New Mexico, 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 has been constructed in accordance with the plans and specifications approved by the City 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 site inspections by me or personnel under my direction and survey information provided by Russ P. Hugg, NMPS number 9750.

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

SURVEYORS CERTIFICATION

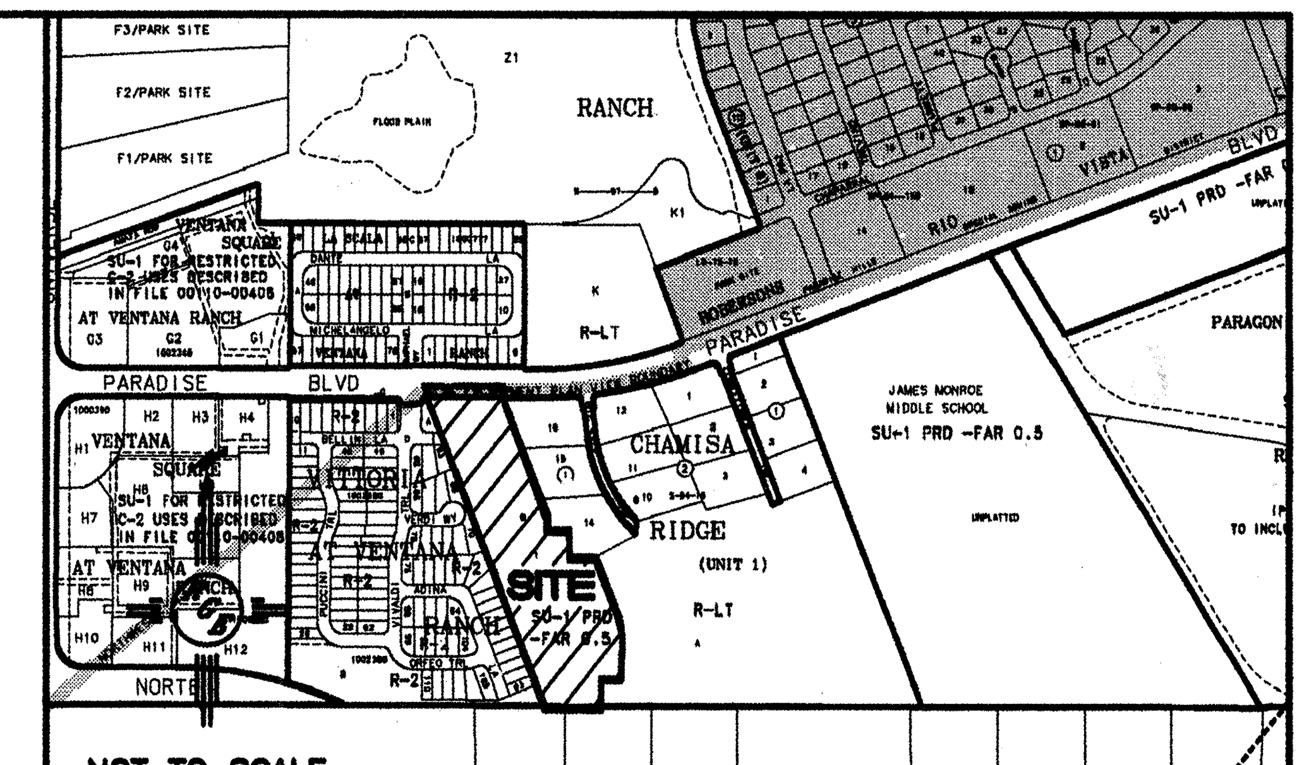
I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, Hereby Certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
10.21, 20 06

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO No. 9750 RUSS P. HUGG

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
6-5-07
DATE: 6-5-2007

DRB #1003236



NOT TO SCALE

VICINITY MAP ZONE ATLAS B-10-Z

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (UPDATE #7) AND NM UTILITIES INC. SPECIFICATIONS FOR WATER AND WASTE WATER FACILITIES, LATEST REV.

2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.

4. NOTIFY NEW MEXICO UTILITIES 3 DAYS PRIOR TO UTILITY CONSTRUCTION.

5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

6. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO(2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCC-UPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.

7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.

8. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNERS EXPENSE.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- [x] SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [x] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE

ENGINEERS STAMP & SIGNATURE: DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

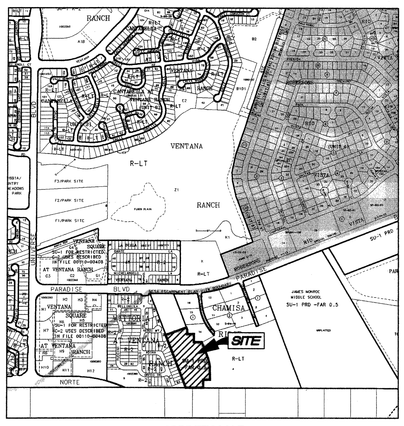
APPROVALS	ENGINEER	DATE
DRC Chairman	[signature]	2-10-06
Transportation	[signature]	8/15/05
NMUI	[signature]	8-13-05
Hydrology	Bradley L. Bingham	9/27/05
C.I.P		
Constr. Mngmt.		
Constr. Coord.	[signature]	2-10-06

APPROVED FOR CONSTRUCTION

City Engineer — Date 3-07-06

CITY PROJECT NO. 741982

SHEET 1 OF 18



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

1. Bearings are grid, based upon the New Mexico State Plane Coordinate System, Central Zone (NAD 27), and rotated to grid at the Albuquqerque Control Survey Monument "7–B10".
2. Distances are ground.
3. Distances along curved lines are arc lengths.
4. Record Plat or Deed bearings and distances, where they differ from those established by this field survey, are shown in parenthesis ( ).
5. All corners are a 5/8" rebar with cap stamped "HUGG L.S. 9750" unless otherwise indicated hereon.
6. U.C.L.S. Log Number 2005062015.
7. City of Albuquerque Zone Atlas Page: B–10–Z
8. All street centerline monumentation shall be installed at all centerline PC's, PT's, angle points and street intersections and shown thus Ⓒ. All centerline monumentation will be set using the standard four (4") aluminum monument stamped "City of Albuquerque Centerline Monument– Do not disturb, PS Number 9750" and will be set flush with the final asphalt lift.
9. Manholes will be offset at all points of curvature, points of tangency, street intersections, and all other angle points to allow use of centerline monumentation.
10. Total number of new Lots created: 36
11. Total mileage of full width streets created: 0.2002 mile.
12. Total new road area (Dedicated): 1.3284 acres
13. Gross Subdivision acreage: 5.8871 acres.
14. Number of existing Tracts: 1
15. Total number of parcels created: 0
16. Total number of Tracts created: 0
17. Current zoning: SU–1 PRD –FAR 0.5

PURPOSE OF:

The Purpose of this replat is to:

a. Create the 36 residential lots as shown hereon.

b. Dedicate the additional new public street right of ways as shown hereon to the City of Albuquerque in fee simple with warranty covenants

c. Grant the new public utility and drainage easements as shown hereon

D. Vacate public easements

TREASURERS CERTIFICATION

This is to certify that taxes are current and paid on the following:

1-017-060-028 379-20801

Bernalillo County Treasurer — Date 7/1/05

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

A. PNM Electric Services for installation, maintenance, and service of overhead and underground electrical lines, transformers, and other equipment and related facilities reasonably necessary to provide electrical service.

B. PNM Gas Services for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.

C. QWest Corporation for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to ground pedestals and closures.

D. Comcast Cable for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

E. New Mexico Utilities, Inc. for the installation, maintenance, and service of underground water and sanitary sewer lines, valves and other equipment and facilities reasonably necessary to provide water and sanitary sewer service.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (aboveground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electrical Safety Code by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.

Easements for electric transformers/switchgears, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

DISCLAIMER

In approving this plat, PNM Electric Services and Gas Services (PNM) did not conduct a Title Search of the properties shown hereon. Consequently, PNM does not waive nor release any easement or easement rights to which it may be entitled.

SHEET INDEX

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that this plat of survey was prepared from field notes of an actual ground survey performed by me or under my supervision; that it meets the Standards for Land Surveys in New Mexico as adopted by the New Mexico State Board of Registration for Professional Engineers and Professional Surveyors; that it meets the minimum requirements for surveys and monumentation of the Albuquerque Subdivision Ordinance; that it shows all easements of record; and that it is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
February 11, 2005

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO No. 9750 RUSS P. HUGG

VILLA DE LA CHAMISA
UNIT 2

(BEING A REPLAT OF TRACT A, VILLA DE LA CHAMISA, UNIT 1)
WITHIN
THE TOWN OF ALAMEDA GRANT
IN
PROJECTED SECTION 10, TOWNSHIP 11 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
FEBRUARY, 2005

SCANNED BY PLANNING

PROJECT NUMBER: 1003236
Application Number: 05 DRB-01055

PLAT APPROVAL

Utility Approvals:

PNM Gas and Electric Services — 5-9-05 Date
QWest Corporation — 5-9-05 Date
Comcast — 5.9.05 Date
New Mexico Utilities — 5-13-05 Date

Note: These properties lie within the New Mexico Utilities, Inc. (NMU, Inc.) Franchise area. Water and Sanitary Sewer capabilities are based upon the NMU, Inc. facilities, not the City of Albuquerque.

City Approvals:

City Surveyor — 3-1-05 Date
Real Property Division — NA Date
Environmental Health Department — NA Date
Traffic Engineering, Transportation Division — 6-29-05 Date
Utilities Development — 6-29-05 Date
Parks and Recreation Department — 7/5/05 Date
AMAFCA — 6/29/05 Date
City Engineer — 6/29/05 Date
DRB Chairperson, Planning Department — 7/5/05 Date

Mary Herrera Bern. Co. PLAT R 22.00 2005098223 Page: 1 of 4 07/06/2005 09:45A Bk-2005C Pg-236

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366 Fax: 505-897-3377

050019_SHTS123. DWG

SHEET 1 OF 4

LEGAL DESCRIPTION

That certain tract of land situate within the Town of Alameda Grant in projected Section 10, Township 11 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico comprising all of Tract A, Villa De La Chamisa Unit 1 as the same is shown and designated on the plat entitled "CORRECTION PLAT VILLA DE LA CHAMISA UNIT 1 (BEING A REPLAT OF TRACT 1, MARIN SUBDIVISION) WITHIN THE TOWN OF ALAMEDA GRANT IN PROJECTED SECTION 10, TOWNSHIP 11 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO" filed in the office of the Bernalillo County Clerk on January 18, 2005 in Volume 2005C, folio 20.

Said Tract contains 5.8871 acres, more or less.

FREE CONSENT AND DEDICATION

SURVEYED and REPLATTED and now comprising, VILLA DE LA CHAMISA, UNIT 2 (BEING A REPLAT OF TRACT A, VILLA DE LA CHAMISA UNIT 1) WITHIN THE TOWN OF ALAMEDA GRANT IN PROJECTED SECTION 10, TOWNSHIP 11 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO", with the free consent of and in accordance with the wishes and desires of the undersigned owner(s) and proprietor(s) thereof. Said owner(s) and proprietor(s)do hereby dedicate the new public street right of ways as shown hereon to the the City of Albuquerque in fee simple with warranty covenants. Said owner(s) and proprietor(s) do hereby grant to the use of the public forever, the public utility easements as shown hereon. Said owner(s) and proprietor(s) do hereby consent to all of the foregoing and do hereby represent that they are so authorized to act. Said owners warrant that they hold among them complete and indefeasible title in fee simple to the land subdivided.

OWNER(S) OF TRACT A

CLEARBROOK INVESTMENTS, INC.
a New Mexico Corporation

By: _____

Scott Henry, President

Villa De La Chamisa Homeowners Association.

By: _____

_____ President Date

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO SS

The foregoing instrument was acknowledged before me this 28th day of February, 2005, by Scott Henry.

Angela L. Montoya My commission expires _____
Notary Public

OFFICIAL SEAL
ANGELA L. MONTOYA
Notary Public
State of New Mexico
My Commission Expires 8/16/07

STATE OF NEW MEXICO
COUNTY OF BERNALILLO SS

The foregoing instrument was acknowledged before me this _____ day of _____, 2005, by, _____, President of The Villa De La Chamisa Homeowners Association.

_____ My commission expires _____
Notary Public

LINE TABLE

LINE	LENGTH	BEARING
L1	7.48'	S21°13'06"E
L2	6.66'	N89°47'07"W
L3	4.71'	S38°41'36"E
L4	5.68'	N68°46'54"E
L5	5.68'	N68°46'54"E
L6	2.72'	S00°06'18"W
L7	15.74'	N68°48'04"E
L8	17.42'	N61°42'34"E
L9	5.37'	S21°11'09"E
L10	19.32'	S89°49'56"E
L11	3.64'	S89°48'34"E
L12	17.17'	S21°13'06"E
L13	30.87'	S38°41'36"E
L14	13.25'	S38°41'36"E
L15	50.03'	S00°02'57"W
L16	32.61'	N61°42'34"E
L17	69.88'	S21°14'42"E

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C1	100.63'	270.00'	50.90'	100.05'	N10°29'49"W	21°21'15"
C2	89.49'	52.00'	60.46'	78.85'	S36°33'36"E	98°36'26"
C3	22.44'	25.00'	12.04'	21.70'	N12°58'30"W	51°26'13"
C4	80.91'	52.00'	51.23'	72.99'	N45°33'17"W	89°09'03"
C5	22.44'	25.00'	12.04'	21.70'	S64°24'43"E	51°26'13"
C6	29.89'	98.00'	15.06'	29.77'	S29°57'21"E	17°28'29"
C7	22.87'	75.00'	11.53'	22.79'	S29°57'21"E	17°28'29"
C8	15.86'	52.00'	7.99'	15.80'	S29°57'21"E	17°28'29"
C9	7.67'	98.00'	3.84'	7.67'	S36°27'03"E	4°29'06"
C10	22.22'	98.00'	11.16'	22.17'	S27°42'49"E	12°59'24"
C11	39.27'	25.00'	25.00'	35.36'	S23°46'54"W	90°00'00"
C12	20.38'	25.00'	10.79'	19.82'	N87°51'52"W	46°42'29"
C13	214.74'	45.00'	42.39'	61.71'	N21°13'07"W	273°24'59"
C14	55.61'	45.00'	31.98'	52.14'	N80°05'24"E	70°47'59"
C15	33.61'	45.00'	17.63'	32.84'	N23°17'32"E	42°47'44"
C16	25.56'	45.00'	13.13'	25.22'	N14°22'35"W	32°32'30"
C17	25.56'	45.00'	13.13'	25.22'	N46°55'05"W	32°32'30"
C18	25.56'	45.00'	13.13'	25.22'	N79°27'35"W	32°32'30"
C19	44.51'	45.00'	24.27'	42.72'	S55°56'02"W	56°40'17"
C20	4.34'	45.00'	2.17'	4.34'	S24°50'13"W	5°31'29"
C21	20.38'	25.00'	10.79'	19.82'	N45°25'38"E	46°42'29"
C22	39.27'	25.00'	25.00'	35.36'	S66°13'07"E	90°00'00"
C23	14.60'	270.00'	7.30'	14.60'	N19°37'30"W	3°05'53"
C24	DELETED					
C25	39.28'	25.00'	25.01'	35.36'	S23°47'29"W	90°01'10"
C26	12.01'	97.00'	6.01'	12.00'	N65°15'20"E	7°05'30"
C27	9.28'	75.00'	4.65'	9.28'	N65°15'20"E	7°05'30"
C28	39.26'	25.00'	24.99'	35.35'	S66°12'32"E	89°58'50"
C29	86.03'	270.00'	43.38'	85.67'	N08°56'53"W	18°15'22"

VILLA DE LA CHAMISA
UNIT 2

(BEING A REPLAT OF TRACT A, VILLA DE LA CHAMISA, UNIT 1)
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FEBRUARY, 2005

Mary Herrera Bern. Co. PLAT R 22.00 2005098223 Page: 2 of 4 07/06/2005 09:45A Bk-2005C Pg-236

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO No. 9750 RUSS P. HUGG

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366 Fax: 505-897-3377

050019_SHTS123. DWG

SHEET 2 OF 4

CPN: 1411982
Villa de la Chamisa
Sheet 2 of 18

SCANNED BY PLANNING

Sheet 2a of 18

VILLA DE LA CHAMISA
UNIT 2

(BEING A REPLAT OF TRACT A, VILLA DE LA CHAMISA, UNIT 1)
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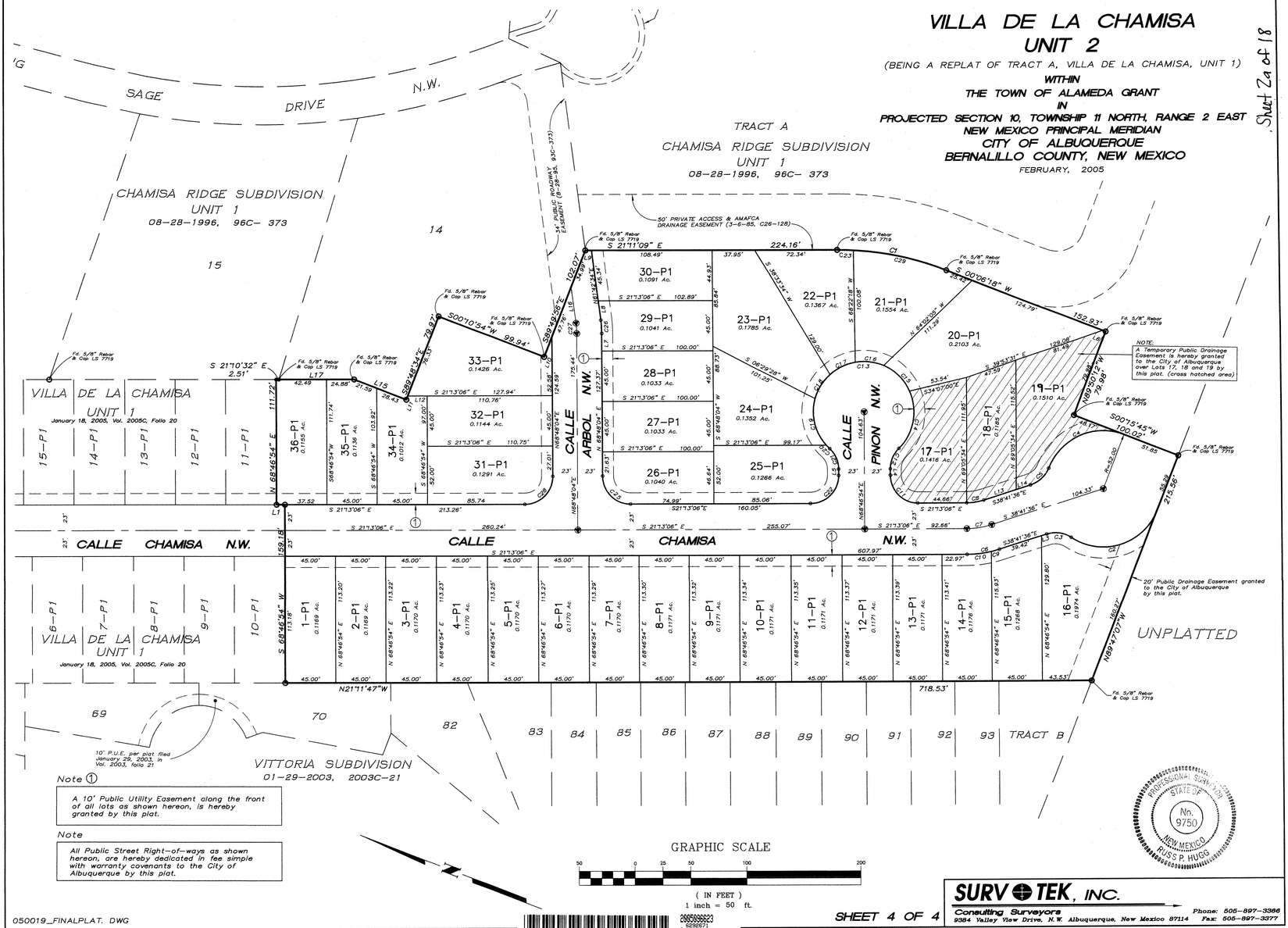
FEBRUARY, 2005



Note ①

A 10' Public Utility Easement along the front of all lots as shown hereon, is hereby granted by this plat.

Note

All Public Street Right-of-ways as shown hereon, are hereby dedicated in fee simple with warranty covenants to the City of Albuquerque by this plat.

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO No. 9750 RUSS P. HUGG

050019_FINALPLAT. DWG

2005066823 6086871 Page: 4 of 4 07/06/2005 08:45A Bk-286SC Pg-236 Mary Herrera Bern. Co. PLAT R 22.00

SHEET 4 OF 4

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
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VILLA DE LA CHAMISA
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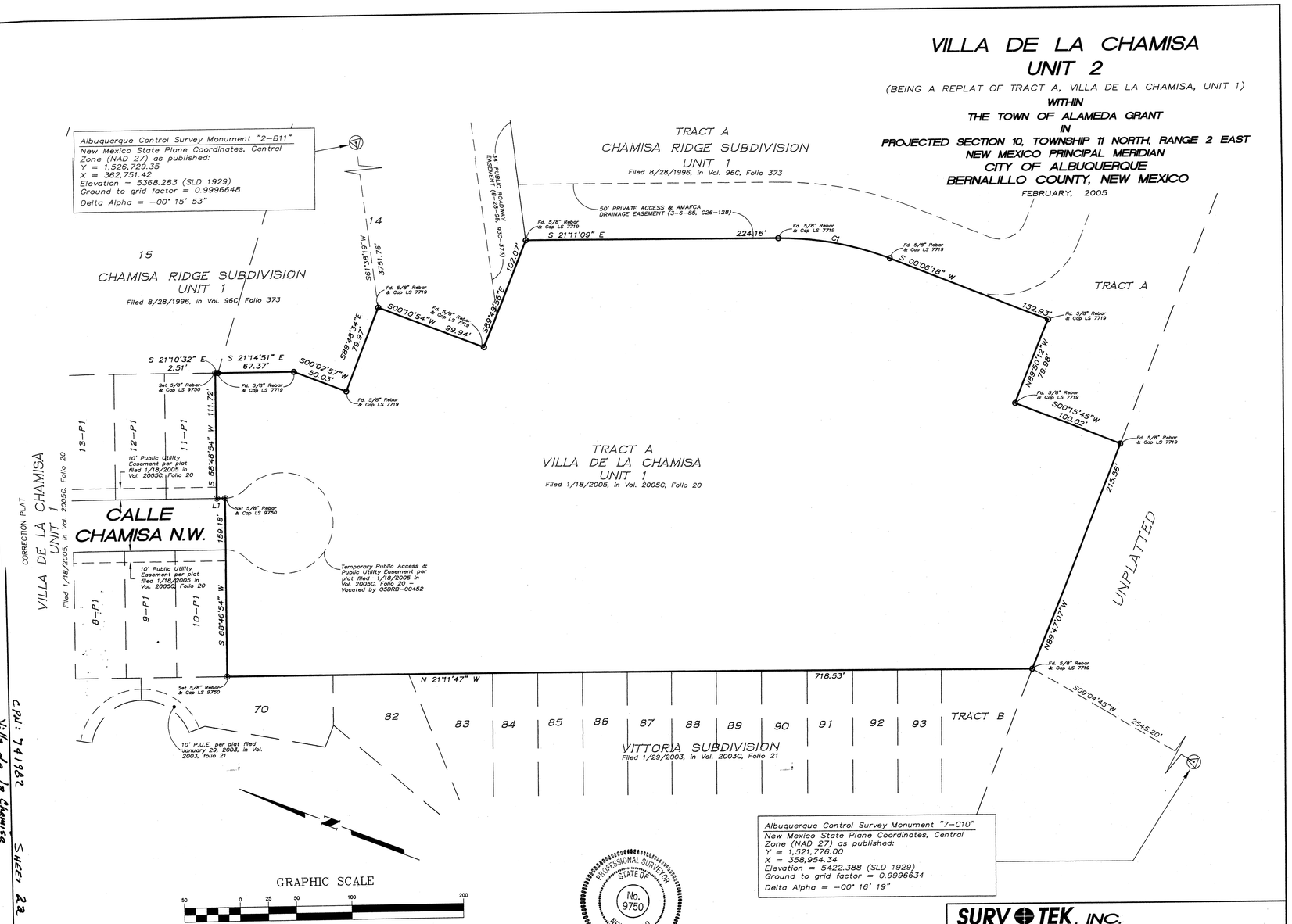


PROFESSIONAL SURVEYOR STATE OF NEW MEXICO No. 9750 RUSS P. HUGG

2005066823 6086871 Page: 3 of 4

SHEET 3 OF 4

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366 Fax: 505-897-3377

CPU: 7/19/02
Villa de la Chamisa
SHEET 2a

050019_SHTS123. DWG

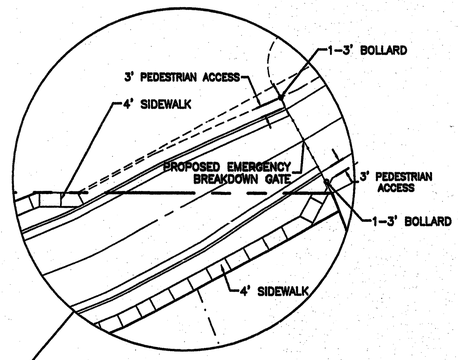
SHEET INDEX

SITE DATA

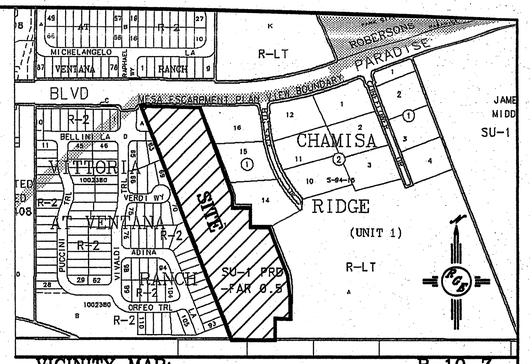
PHASE I ACREAGE:	2.8680 AC±
PHASE II ACREAGE:	5.8987 AC±
TOTAL ACREAGE:	8.7647 AC±
EXISTING ZONING:	SU–1 PRD (FAR .5)
PROPOSED ZONING:	SU–1 PRD (FAR .5)
PROPOSED USE:	55 MAX. SINGLE–FAMILY DWELLING UNITS
NUMBER OF LOTS:	
PHASE I:	19 LOTS, AND 2 LANDSCAPE TRACTS
PHASE II:	36 LOTS (W/ROW ACCESS TO SOUTH)

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C1	100.87' (100.83')	270.00' (270.00')	50.83' (50.83')	100.09'	N10°31'01"W	21°21'50" (21°21'50")



EMERGENCY GATE/ PEDESTRAIN ACCESS DETAIL
NTS



VICINITY MAP: B–10–Z

LEGAL DESCRIPTION:

TRACT 1, LANDS OF MARIN

NOTES:

1. THE DEVELOPMENT OF THIS PROJECT WILL BE PHASED AS SHOWN ON THIS PLAN.
2. SITE PLAN FOR BUILDING PERMIT SHALL BE DELEGATED TO THE DEVELOPMENT REVIEW BOARD FOR FINAL APPROVAL.
3. THIS SITE IS LOCATED IN THE ESCARPMENT VIEW AREA, AS DESCRIBED WITHIN THE NORTHWEST ESCARPMENT PLAN (RANK 3). THE SUBSEQUENT SITE PLAN FOR BUILDING PERMIT MUST FOLLOW THE REQUIREMENTS SPECIFIED BY THIS PLAN.
4. THE OVERALL FLOOR AREA RATIO SHALL NOT EXCEED 0.5.
5. THE MAXIMUM BUILDING HEIGHT SHALL NOT EXCEED 26'.
6. LANDSCAPE TRACTS A AND B SHALL BE MAINTAINED BY THE VILLA DE LA CHAMISA HOMEOWNERS ASSOCIATION.
7. FRONT YARD SETBACK SHALL BE A MINIMUM OF 15' AND SHALL HAVE A 2' VARIATION IN THE FRONT YARD SETBACK FROM THE ADJACENT HOUSE.
8. ALL WALLS AND FENCE MUST MEET THE DESIGN STANDARDS FOR WALLS, PER SECTION 14–16–3–19 OF THE ZONING CODE.
9. ALL LIGHTING SHALL BE BUILT TO COA STANDARDS FOR PUBLIC RIGHT–OF–WAY.
10. PUBLIC ACCESS EASEMENT TO CHAMISA RIDGE SUBDIVISION SHALL BE GATED AND USED FOR EMERGENCY ACCESS ONLY. A 3' MIN. PEDESTRIAN CONNECTION SHALL BE PROVIDED ON EITHER SIDE OF GATE WITHIN ACCESS EASEMENT. GATE SHALL BE A BREAKDOWN GATE AS APPROVED BY THE FIRE DEPARTMENT. DEVELOPER WILL WORK WITH CHAMISA RIDGE HOMEOWNERS ON AN ACCEPTABLE DESIGN. MAINTAINANCE of Gate shall be Villa de la Chamisa HOA
11. EACH LOT SHALL PROVIDE STORAGE AREA FOR RESIDENTIAL AUTOMATED CARTS, NOT VISIBLE FROM STREET OR STORED INSIDE GARAGE.
12. ENTRY SIGN SHALL SIT BACK FAR ENOUGH SO AS NOT TO INTERFERE WITH PEDESTRIAN MOVEMENT ALONG PARADISE BOULEVARD.
13. ALL SINGLE COMMON WALLS BETWEEN CHAMISA RIDGE SUBDIVISION AND THE PROPOSED VILLA DE LA CHAMISA SUBDIVISION SHALL BE A MINIMUM OF 6' IN HEIGHT AND SHALL NOT EXCEED 8' IN HEIGHT ABOVE THE LOWEST GRADE ON THE LOWER SIDE WITHIN THE REQUIRED REAR YARD SETBACK.
14. PHASE II SHALL NOT BEGIN CONSTRUCTION UNTIL DRAINAGE AGREEMENT BETWEEN OWNERS TO EAST IS EXECUTED.

Revisions
1. Eliminate median at entry Per Design Review committee comments.

PROJECT NUMBER: 1003286
APPLICATION NUMBER: 04-00199

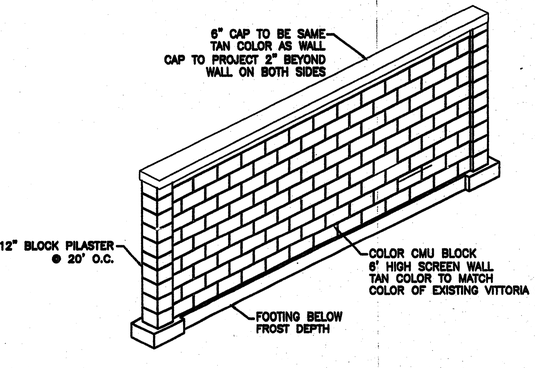
This plan is consistent with the specific Site Development Plan approved by the Environmental Planning Commission (EPC), dated ____ and the Findings and Conditions in the Official Notification of Decision are satisfied.

Is an Infrastructure List required? (X) Yes ( ) No If Yes, then a set of approved DRC plans with a work order is required for any construction within Public Right–of–Way or for construction of public improvements.

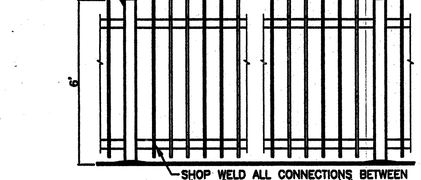
DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL

Traffic Engineer, Transportation Division	6-23-04 Date
Utilities Development	6/23/2004 Date
Parks & Recreation Department	6/23/04 Date
City Engineer	6/23/04 Date
* Environmental Health Department (conditional)	6-23-04 Date
Solid Waste Management	6/23/04 Date
DRB Chairperson, Planning Department	

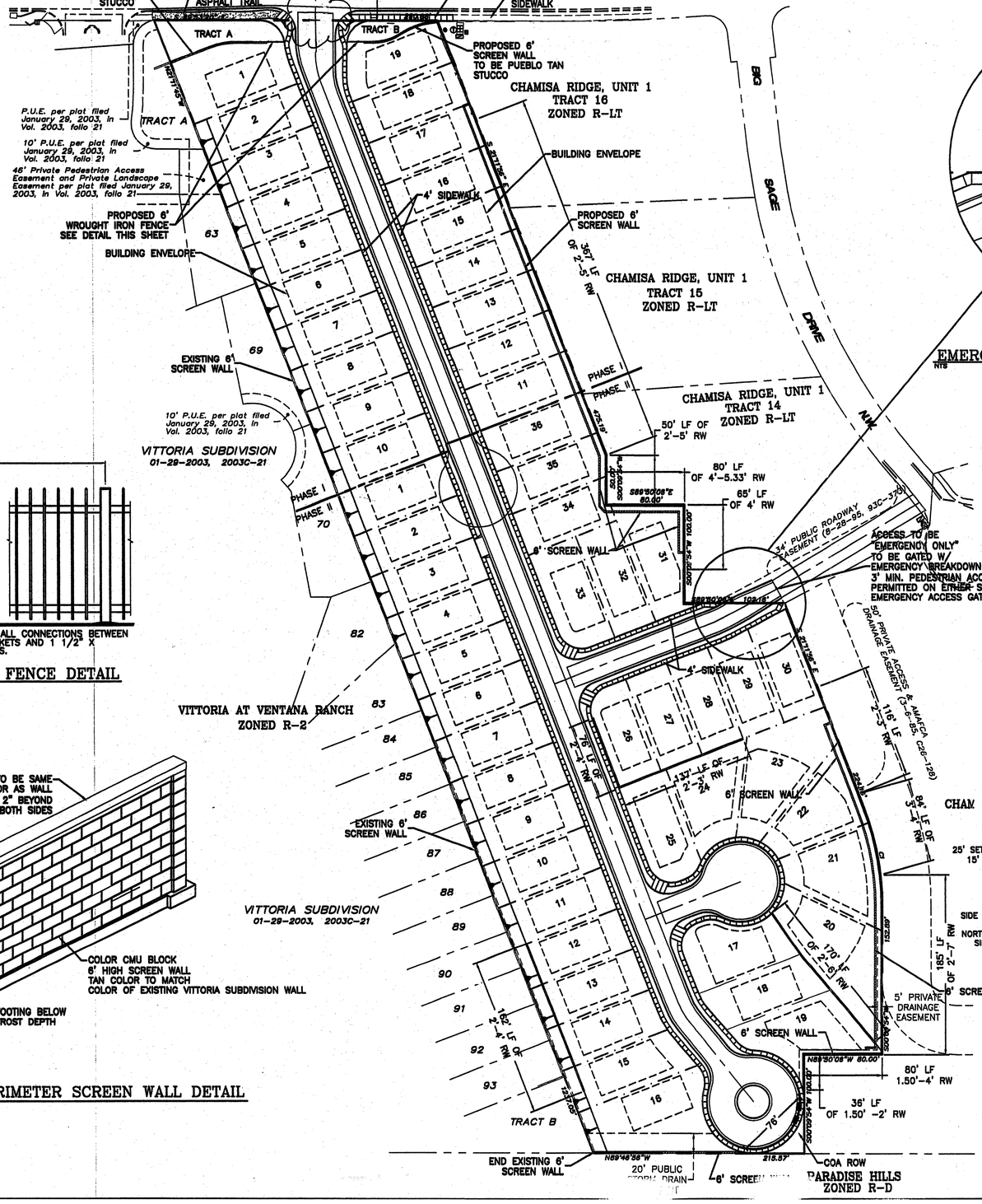
* Environmental Health, if necessary
12/16/03

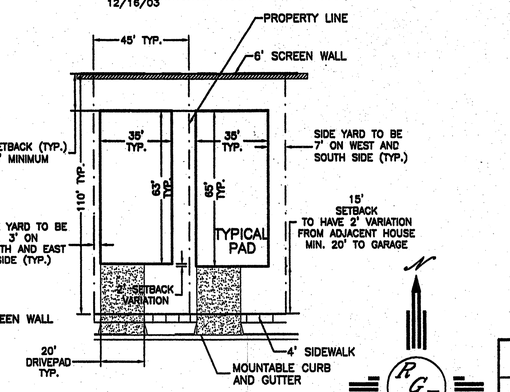


6' PERIMETER SCREEN WALL DETAIL
NTS

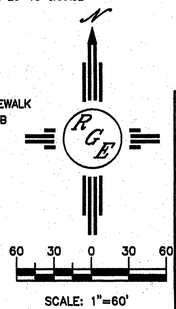


WROUGHT IRON FENCE DETAIL
NTS





TYPICAL LOT LAYOUT
NTS



LEGEND

- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- FUTURE CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED 4' SIDEWALK
- FUTURE 4' SIDEWALK
- CENTERLINE
- RIGHT–OF–WAY
- LOT LINES
- FUTURE LOT LINES
- BUILDING ENVELOPE
- PHASE LINE
- 6' SCREEN WALL
- FUTURE 6' SCREEN WALL

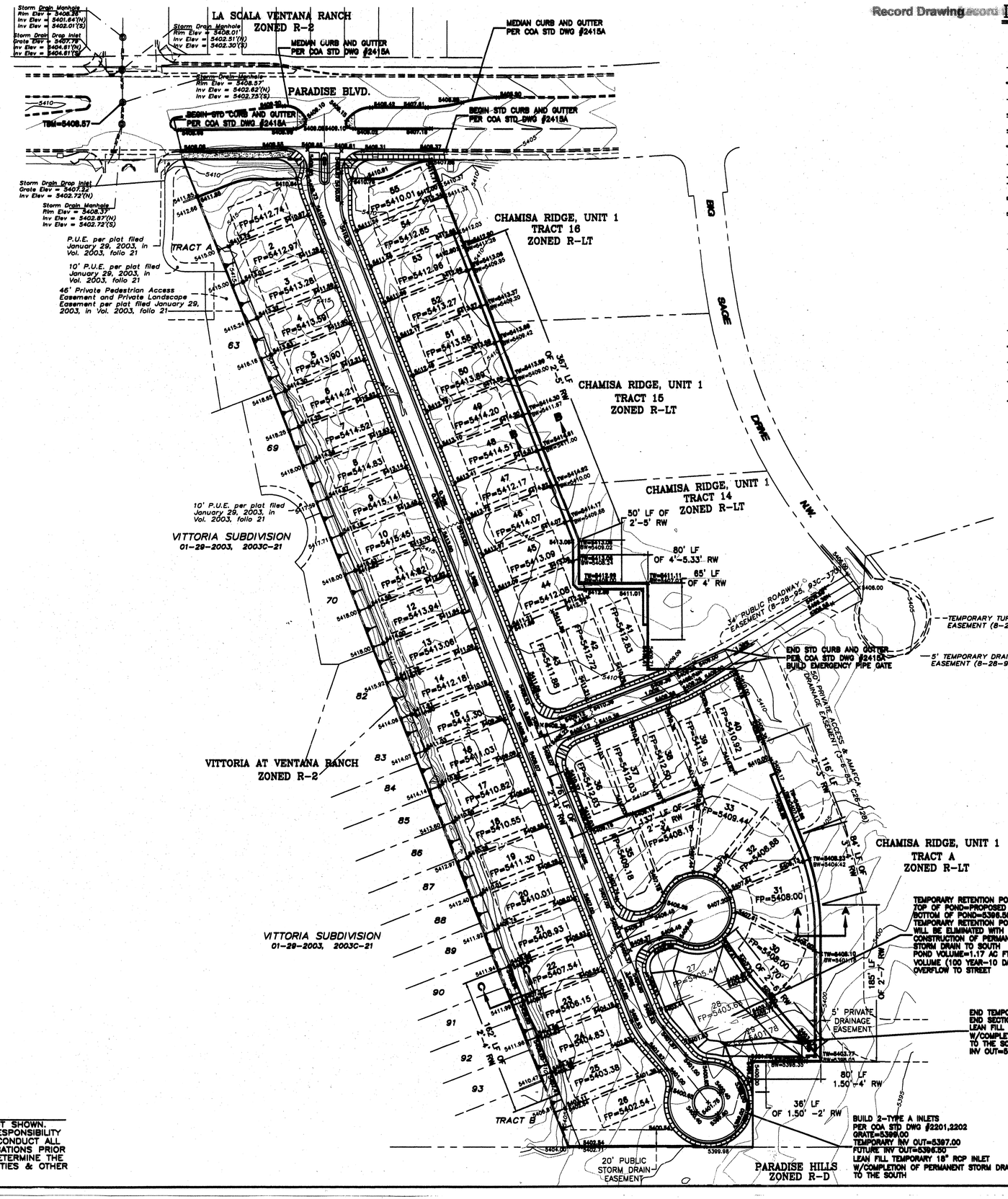
For Info / not

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER
DAVID SOULE P.E. #14522

VILLA DE LA CHAMISA
SITE PLAN FOR SUBDIVISION

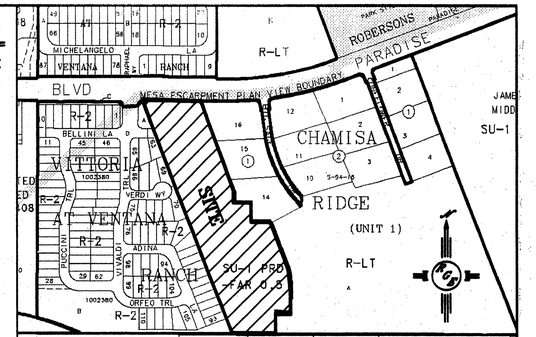
DRAWN BY WCWJ
DATE 6–22–04
2300–SPSB–5–10–04X
SHEET # 3 OF 18
JOB # 2300

Rio Grande Engineering
3500 COMANCHE ROAD NE BUILDING E, SUITE 6 ALBUQUERQUE, NM 87107 (505) 872–0999

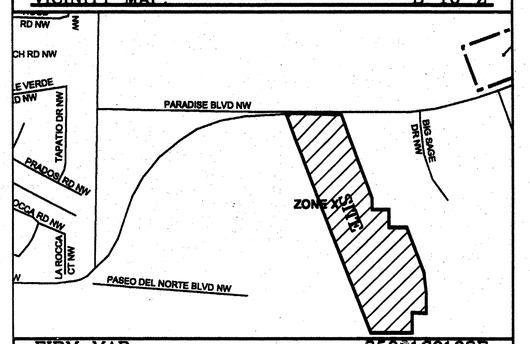


LEGEND

- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EX. 24" RCP — EXISTING STORM SEWER LINE
- 18" RCP — PROPOSED STORM SEWER LINE
- EXISTING FENCE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- PROPOSED PERIMETER WALL
- PROPOSED RETAINING WALL
- 5411 — EXISTING CONTOUR
- 5410 — EXISTING INDEX CONTOUR
- FLOW ARROW
- SLOPE TIE
- × 5048.25 — PROPOSED SPOT ELEVATION
- × 5048.25 — EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- PROPOSED TEMPORARY POND



VICINITY MAP: B-10-Z



FIRM MAP: 35001C0103E

LEGAL DESCRIPTION:

TRACT 1, LANDS OF MARIN

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO BE STANDARD PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.
3. ALL INTERIOR REAR YARD SCREEN WALLS (WHERE THE WALL IS INSIDE OF RETAINING WALL) SHALL HAVE EVERY FOURTH BLOCK TURNED FOR DRAINAGE.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

For Information Only

7/22/04
ROUGH GRADING APPROVAL — DATE

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

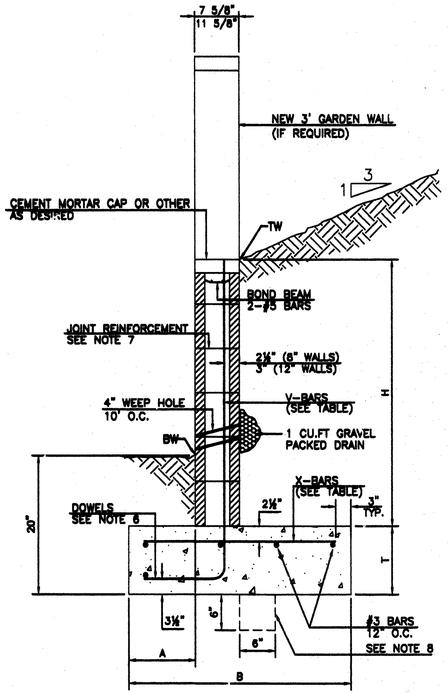
DAVID SOULE P.E. #14522

VILLA DE LA CHAMISA

GRADING AND DRAINAGE PLAN

Rio Grande Engineering
3500 COMANCHE ROAD NE BUILDING E, SUITE 5 ALBUQUERQUE, NM 87107 (505) 872-0999

DRAWN BY WCWJ
DATE 4-26-04
2300-GRB-4-21-04X
SHEET # 4 OF 18
JOB # 2300



RETAINING WALL DETAIL
NTS

8 INCH REINFORCED CONCRETE MASONRY WALL

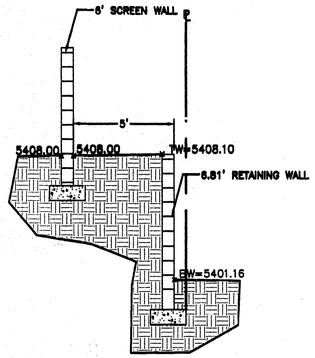
H	A	B	T	V-BARS	X-BARS
ft.-in.	in.	ft.-in.	in.		
3'-4"	8"	2'-4"	9"	#4 @32" O.C.	#4 @34" O.C.
4'-0"	10"	2'-9"	9"	#4 @32" O.C.	#4 @36" O.C.
4'-8"	12"	3'-4"	10"	#4 @24" O.C.	#4 @24" O.C.
5'-4"	14"	3'-8"	10"	#4 @16" O.C.	#4 @16" O.C.
6'-0"	16"	4'-2"	12"	#4 @16" O.C.	#4 @16" O.C.

12 INCH REINFORCED CONCRETE MASONRY WALL

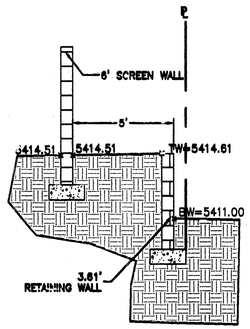
H	A	B	T	V-BARS	X-BARS
ft.-in.	in.	ft.-in.	in.		
5'-4"	14"	3'-8"	10"	#4 @24" O.C.	#3 @24" O.C.
6'-0"	15"	4'-2"	12"	#4 @16" O.C.	#4 @30" O.C.
6'-8"	16"	4'-6"	12"	#6 @24" O.C.	#4 @22" O.C.
7'-4"	18"	4'-10"	12"	#5 @16" O.C.	#5 @26" O.C.
8'-0"	20"	5'-4"	12"	#7 @24" O.C.	#5 @21" O.C.

GENERAL NOTES:

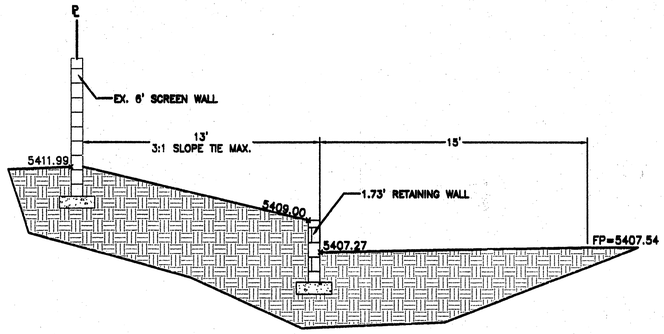
1. ALL CONCRETE IS TO BE 4000 PSI @ 28 DAYS.
2. MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM. D 1557 FOR A DEPTH OF 12" MOISTURE CONTENT IS TO BE ± 2.0%.
3. BACKFILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
4. ALL BARS ARE TO BE GRADE 60, ASTM 615.
5. TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.
6. DOWELS SHALL BE AT LEAST EQUAL IN SIZE AND SPACING TO V-BARS, SHALL PROJECT A MINIMUM OF 30 BAR DIA. INTO THE FILLED BLOCK CORES, AND SHALL EXTEND TO THE TOE OF THE FOOTING.
7. JOINT REINFORCEMENT CONSISTING OF 9GA. LONGITUDINAL WIRE AND 3/16" CROSS RODS SHALL BE PROVIDED AT 8" CENTERS VERTICALLY.
8. PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
9. USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.



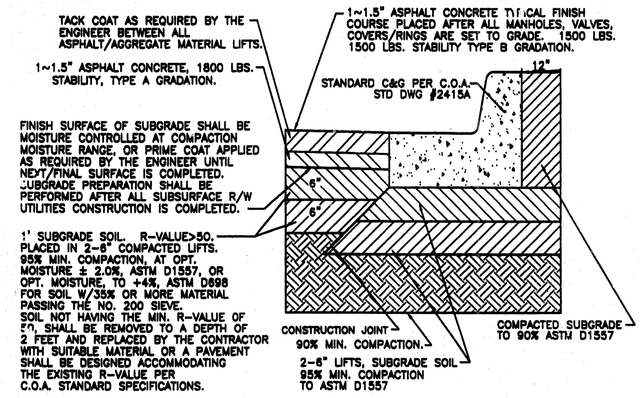
SECTION A-A
NTS



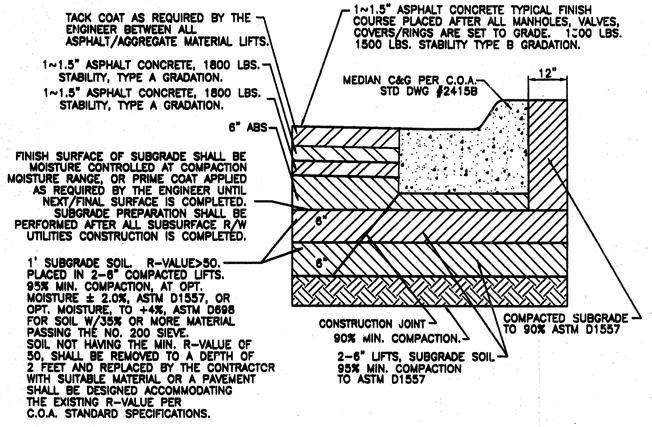
SECTION B-B
NTS



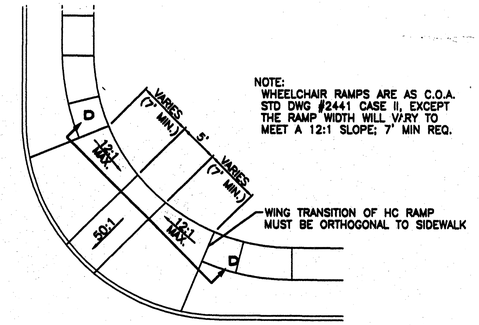
SECTION C-C
NTS



RESIDENTIAL PAVING SECTION (STANDARD CURB)
NTS



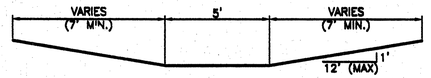
PARADISE PAVING SECTION (MEDIAN CURB)
NTS



NOTE:
WHEELCHAIR RAMPS ARE AS C.O.A. STD DWG #2441 CASE II, EXCEPT THE RAMP WIDTH WILL VARY TO MEET A 12:1 SLOPE; 7' MIN REQ.

WING TRANSITION OF HC RAMP MUST BE ORTHOGONAL TO SIDEWALK

WHEELCHAIR RAMP DETAIL (TYP.)
NTS

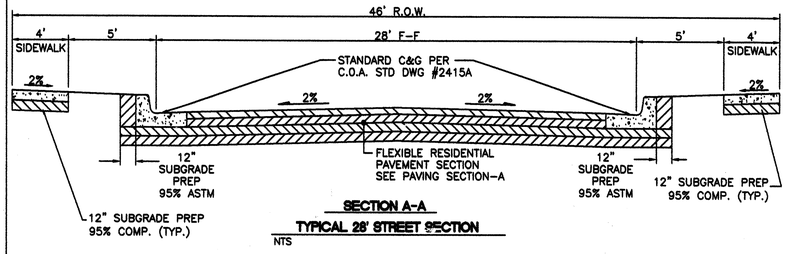


SECTION D-D
NTS

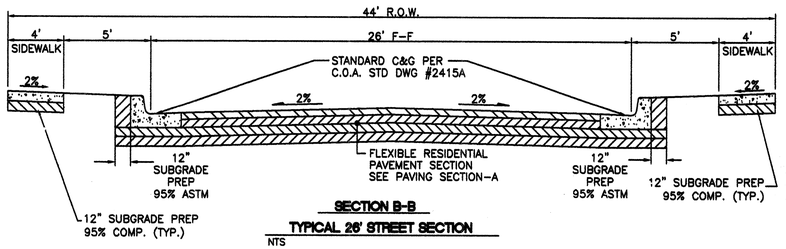
for Mylar Mylar

ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER DAVID SOULE P.E. #14522	VILLA DE LA CHAMISA GRADING AND DRAINAGE DETAILS Rio Grande Engineering 3500 COMANCHE ROAD NE BUILDING E, SUITE 5 ALBUQUERQUE, NM 87107 (505) 872-0999	DRAWN BY WCWJ DATE 4-26-04 2300-GRB-4-21-04X SHEET # 5 OF 18 JOB # 2300

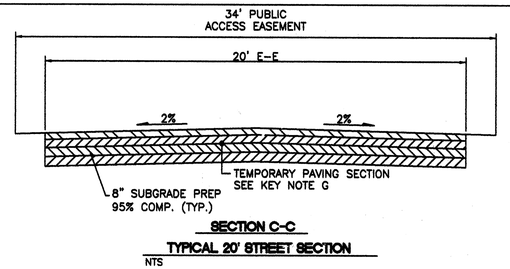
Record Drawing



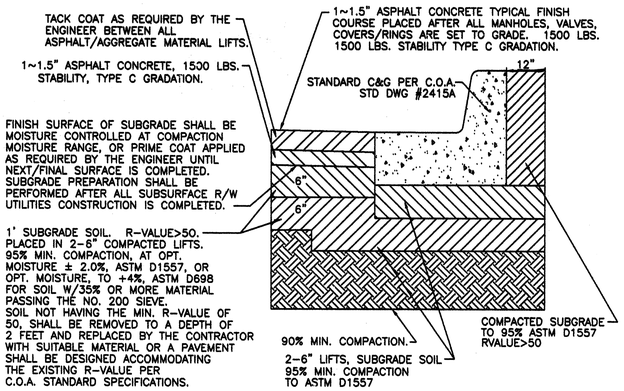
SECTION A-A
TYPICAL 28' STREET SECTION
NTS



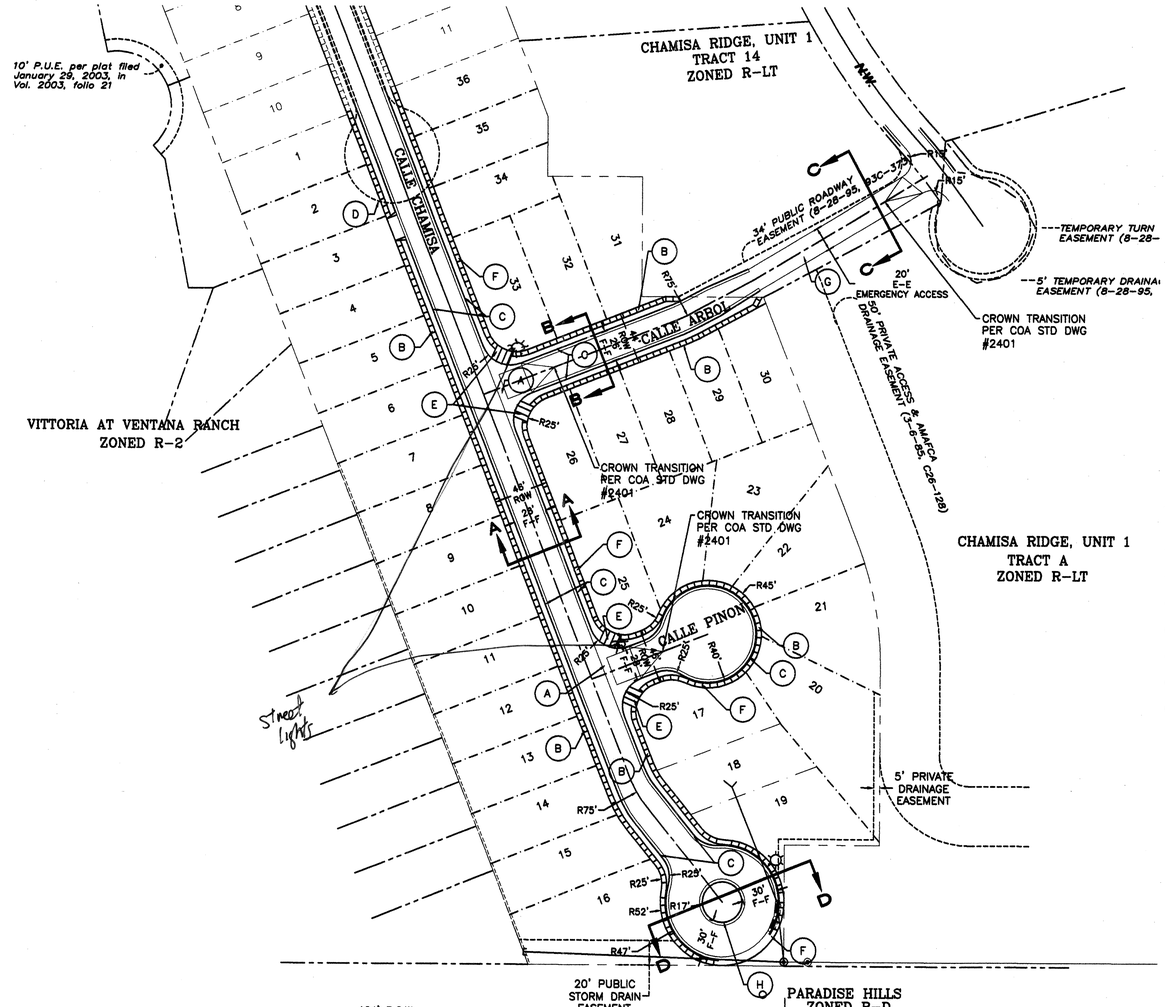
SECTION B-B
TYPICAL 26' STREET SECTION
NTS



SECTION C-C
TYPICAL 20' STREET SECTION
NTS

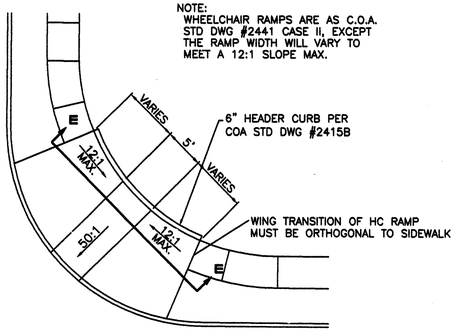


RESIDENTIAL PAVING SECTION (STANDARD CURB)
NTS

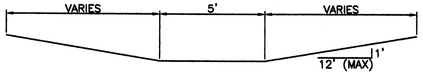


KEYED NOTE:

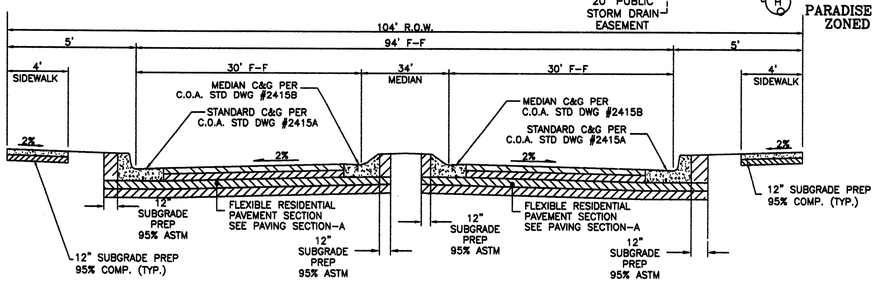
- (A) 6' VALLEY GUTTER PER C.O.A. STD DWG #2420
- (B) 4' SIDEWALK TO BE DEFFERED.
- (C) STANDARD C&G PER COA STD DWG #2415A
- (D) REMOVE EXISTING TEMPORARY PAVING
- (E) HANDICAP RAMP PER COA STD DWG #2441 SEE THIS SHEET
- (F) 4' SIDEWALK TO BE BUILT W/THIS CONTRACT. PER COA STD DWG #2430
- (G) TEMPORARY PAVING TO BE 3" LIFT TYPE C GRADATION-PER COA STD DWG 2415B
- (H) MEDIAN C&G PER COA STD DWG #2415B



WHEELCHAIR RAMP DETAIL (TYP.)
NTS



SECTION E-E
NTS



SECTION D-D
TYPICAL 94' STREET SECTION
NTS

LEGEND

- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- BOUNDARY LINE
- EASEMENT
- STREET LIGHTS

GRAPHIC SCALE
60 30 0 30 60
SCALE: 1"=60'

AS BUILT INFORMATION
CONTRACTOR: Sales & Bros. 873-8280
WORK COMPLETED BY: Surv-Tek DATE: 04/06
INSPECTOR'S ASSISTANCE BY: R.O.E. DATE: 11/06
FIELD VERIFICATION BY: Surv-Tek DATE: 10/06
DRAWING CORRECTED BY: Surv-Tek DATE: 10/06
MICRO-FILM INFORMATION

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY: DATE:

NO.	DATE	REMARKS
		REVISIONS

DESIGN
DESIGNED BY: WCWJ DATE: 2-17-05
DRAWN BY: WCWJ DATE: 2-17-05
DRAWN NAME: 2300-DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300

NO.	DATE	RECORDED BY
		DATE

ENGINEER'S SEAL
DAVID SOULEN NEW MEXICO 14822 REGISTERED PROFESSIONAL ENGINEER
7/1/06

Rio Grande Engineering
1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999

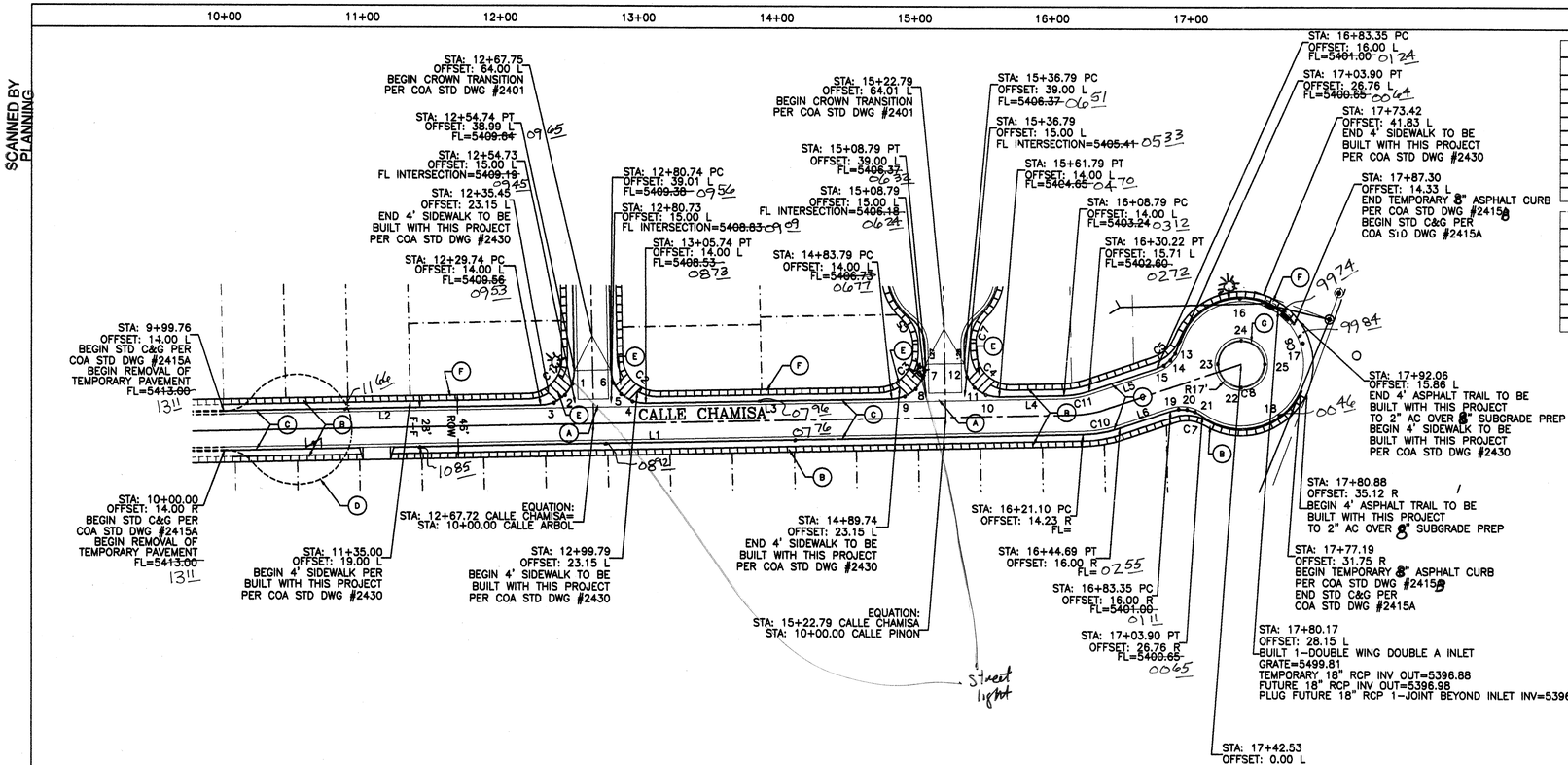
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
MASTER PAVING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB - 9 2006 DESIGN REVIEW COMMITTEE	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	6	18

Record Drawing



PAVING CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA ANGLE	CHORD DIRECTION	CHORD
C1	39.26	25.00	89°58'50"	S66°12'31"E	35.35
C2	38.28	25.00	87°43'12"	S24°56'28"W	34.64
C3	39.27	25.00	90°00'00"	S66°13'06"E	35.36
C4	39.27	25.00	90°00'00"	S23°46'54"W	35.36
C5	24.12	25.00	55°17'19"	S66°20'15"E	23.20
C6	238.36	47.00	290°34'37"	N51°18'24"E	53.53
C7	24.12	25.00	55°17'19"	N11°02'57"W	23.20
C10	27.14	89.00	17°28'29"	S29°57'21"E	27.04
C11	18.60	61.00	17°28'29"	S29°57'21"E	18.53

PAVING LINE TABLE		
LINE	LENGTH	BEARING
L1	621.63	S21°13'06"E
L2	229.74	S21°13'06"E
L3	178.06	S21°13'08"E
L4	47.00	S21°13'06"E
L5	51.36	S38°41'36"E
L6	38.65	S38°41'36"E

QUARTER POINTS

	FL	ELEV.
C1	1	5409.64
	2	5409.61
	3	5409.59

	FL	ELEV.
C2	4	5408.82
	5	5409.10
	6	5409.25

	FL	ELEV.
C3	7	5406.46
	8	5406.55
	9	5406.64

	FL	ELEV.
C4	10	5405.08
	11	5405.51
	12	5405.94

	FL	ELEV.
C5	13	5400.73
	14	5400.82
	15	5400.91

	FL	ELEV.
C6	16	5399.45
	17	5399.93
	18	5400.29

	FL	ELEV.
C7	19	5400.91
	20	5400.82
	21	5400.73

	FL	ELEV.
C8	22	5400.40
	23	5400.65
	24	5400.40
	25	5400.65

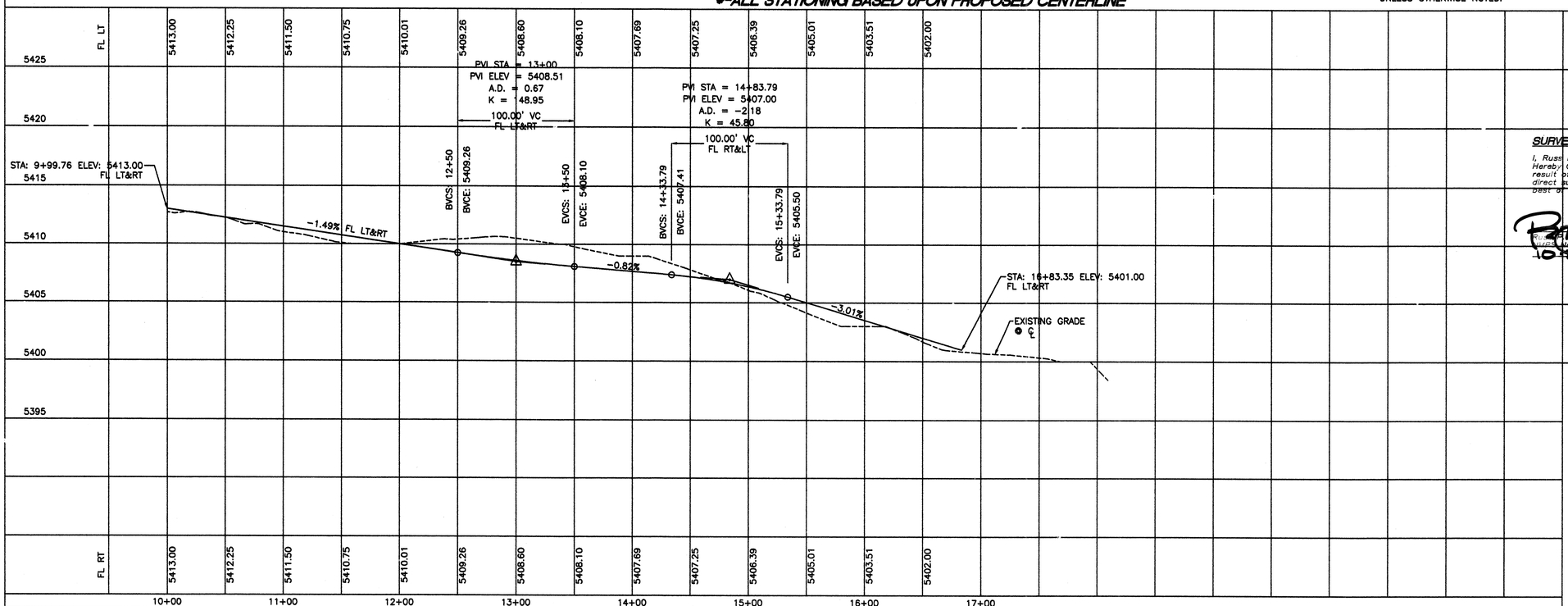
KEYED NOTE:

- (A) 6' VALLEY GUTTER PER C.O.A. STD DWG #2420
- (B) 4' SIDEWALK TO BE DEFFERED.
- (C) STANDARD C&G PER COA STD DWG #2415A
- (D) REMOVE EXISTING TEMPORARY PAVING
- (E) HANDICAP RAMP PER COA STD DWG #2441 SEE THIS SHEET
- (F) 4' SIDEWALK TO BE BUILT W/THIS CONTRACT. PER COA STD DWG #2430
- (G) MEDIAN C&G PER COA STD DWG #2415B

NOTE:
1. SEE MASTER PAVING PLAN FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
2. ALL CURB AND GUTTER ARE TO BE STANDARD UNLESS OTHERWISE NOTED.

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

CALLE CHAMISA
STA: 10+00.00 TO 18+09.36
*-ALL STATIONING BASED UPON PROPOSED CENTERLINE



SURVEYORS CERTIFICATION

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

Russ P. Hugg
NMPS No. 9750
10-4 20 06

NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
DAVID SOULE
No. 14844
10/14/05

AS BUILT INFORMATION
CONTRACTOR: SALLS BROS. DATE: 4/06
STAKED BY: SURV-TEK DATE: 11/04
INSPECTOR'S INITIALS: RGE DATE: 10/06
FIELD VERIFICATION BY: SURV-TEK DATE: 10/06
REVISIONS BY: SURV-TEK DATE: 10/06
CORRECTED BY: MICRO-FILM INFORMATION

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.99966648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

REMARKS
REVISIONS
NO. | BY | DATE

DESIGN
DESIGNED BY: WCWJ
DRAWN BY: WCWJ
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG
CHECKED BY: DS
DATE: 5-1-04
DATE: 5-11-04
JOB NO.: 2300
DATE: 5-15-04

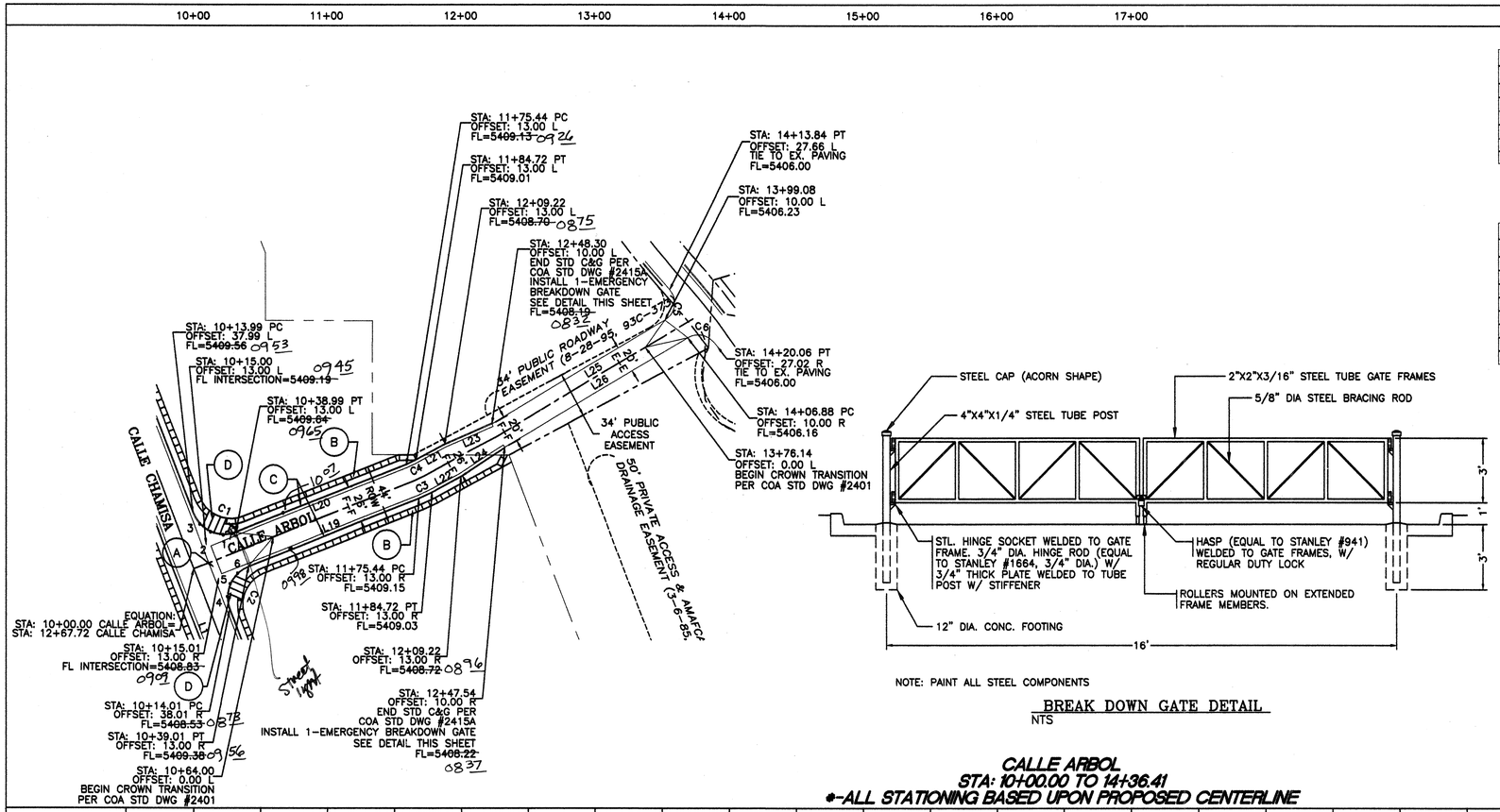
Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
PAVING IMPROVEMENTS
CALLE CHAMISA

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
FEB - 9 2006 DESIGN REVIEW COMMITTEE	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	7	18



NOTE: PAINT ALL STEEL COMPONENTS

BREAK DOWN GATE DETAIL
NTS

PAVING CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA ANGLE	CHORD DIRECTION	CHORD
C1	39.26	25.00	89°58'50"	S66°12'31"E	35.35
C2	38.28	25.00	87°43'12"	S24°56'28"W	34.64
C3	10.89	88.00	7°05'30"	N65°15'19"E	10.88
C4	7.67	62.00	7°05'30"	N65°15'19"E	7.67
C5	26.23	15.00	100°11'59"	N08°56'12"E	23.01
C6	21.28	15.00	81°17'25"	N80°19'06"W	19.54

PAVING LINE TABLE		
LINE	LENGTH	BEARING
L19	136.42	N68°48'04"E
L20	136.45	N68°48'04"E
L21	24.50	N61°42'34"E
L22	24.50	N61°42'34"E
L23	38.73	N66°07'56"E
L24	38.90	N57°17'12"E
L25	168.55	N59°02'11"E
L26	172.21	N59°02'11"E

QUARTER POINTS

C1	FL	ELEV.
	1	5409.64
	2	5409.61
	3	5409.59

C2	FL	ELEV.
	4	5408.82
	5	5409.10
	6	5409.25

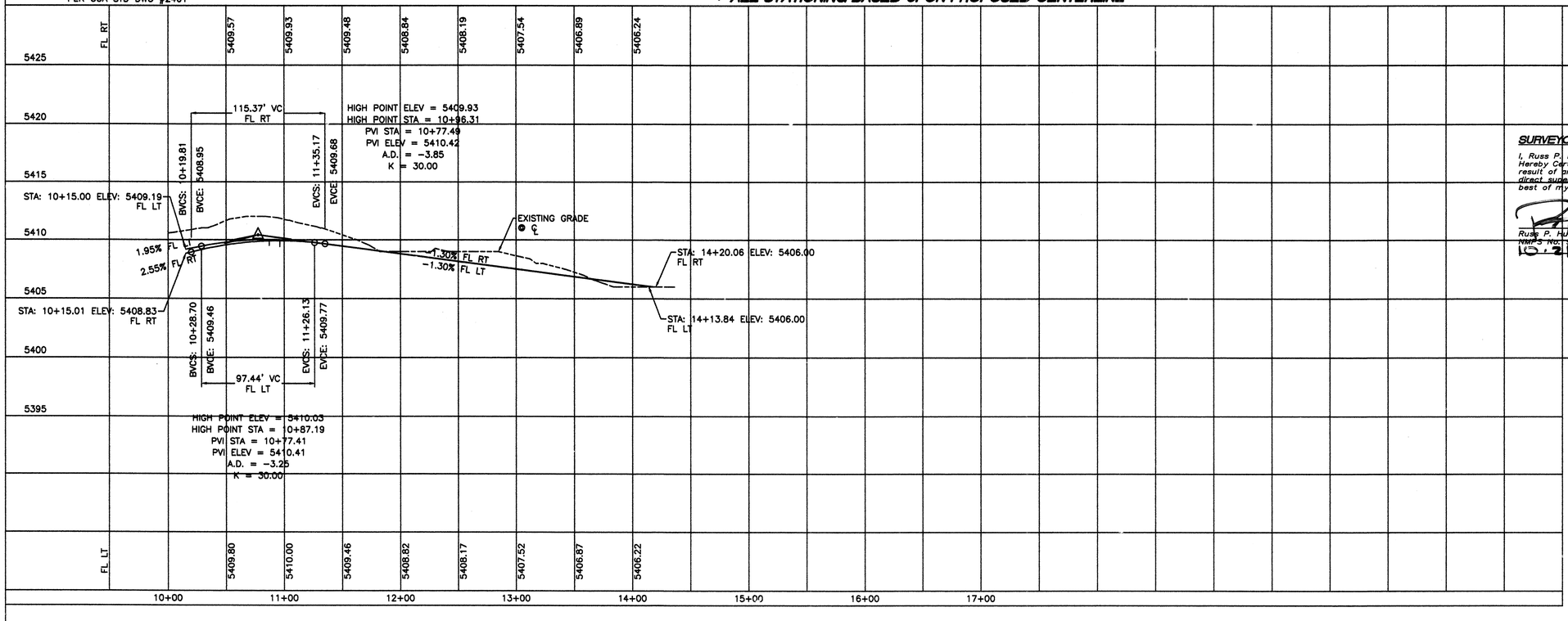
KEYED NOTE:

(A) 6' VALLEY GUTTER PER C.O.A. STD DWG #2420
(B) 4' SIDEWALK TO BE DEFFERED.
(C) STANDARD C&G PER COA STD DWG #2415A
(D) HANDICAP RAMP PER COA STD DWG #2441
SEE THIS SHEET

NOTE:
1. SEE MASTER PAVING PLAN FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
2. ALL CURB AND GUTTER ARE TO BE STANDARD UNLESS OTHERWISE NOTED.

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

CALLE ARBOL
STA: 10+00.00 TO 14+36.41
#-ALL STATIONING BASED UPON PROPOSED CENTERLINE



SURVEYORS CERTIFICATION

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

Russ P. Hugg
NMPS No. 9750
10, 21 2006

PROFESSIONAL SURVEYOR
STATE OF
No. 9750
NEW MEXICO
RUSS P. HUGG

AS BUILT INFORMATION
CONTRACTOR Sallis Bros.
WORK STARTED BY SURV TEK DATE 4/06
WORK STAKED BY SURV TEK DATE 1/06
INSPECTIONS PERFORMED BY R&E DATE
FIELD VERIFICATION BY SURV TEK DATE 6/06
DRAWING CORRECTED BY SURV TEK DATE 10/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14729 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. BY DATE
REMARKS
DESIGN
DESIGNED BY: WCWJ DATE: 5-11-04
DRAWN BY: WCWJ DATE: 5-11-04
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300
CHECKED BY: DS DATE: 5-15-04

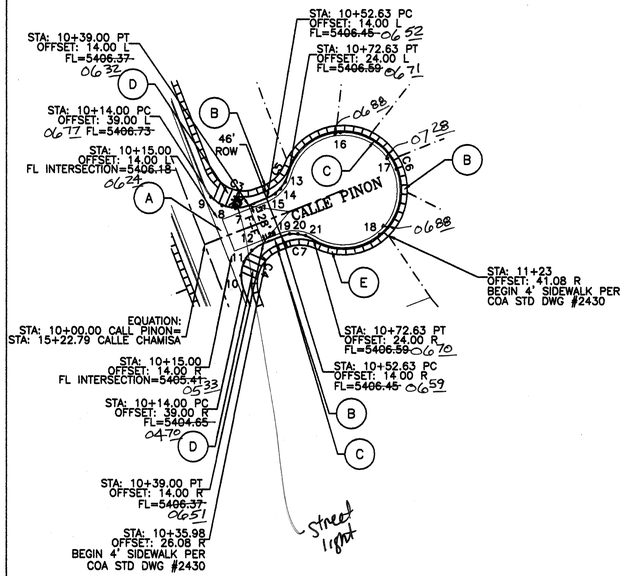
Rio Grande Engineering
1006 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ***VILLA DE LA CHAMISA UNIT 2***
PAVING IMPROVEMENTS
CALLE ARBOL

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB - 9 2006	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	8	18



CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA ANGLE	CHORD DIRECTION	CHORD
C3	39.27	25.00	90°00'00"	S66°13'06"E	35.36
C4	39.27	25.00	90°00'00"	S23°46'54"W	35.36
C5	23.18	25.00	53°07'48"	N42°12'59"E	22.36
C6	199.85	40.00	286°15'37"	N21°13'06"W	48.00
C7	23.18	25.00	53°07'48"	N84°39'12"W	22.36

LINE TABLE		
LINE	LENGTH	BEARING
L27	13.63	N68°46'54"E
L28	13.63	N68°46'54"E

QUARTER POINTS

C3	FL	ELEV.
	7	5406.46
	8	5406.55
	9	5406.64

C4	FL	ELEV.
	10	5405.08
	11	5405.51
	12	5405.94

C5	FL	ELEV.
	13	5406.56
	14	5406.52
	15	5406.48

C6	FL	ELEV.
	16	5406.83
	17	5407.20
	18	5406.83

C7	FL	ELEV.
	19	5406.48
	20	5406.52
	21	5406.56

KEYED NOTE:

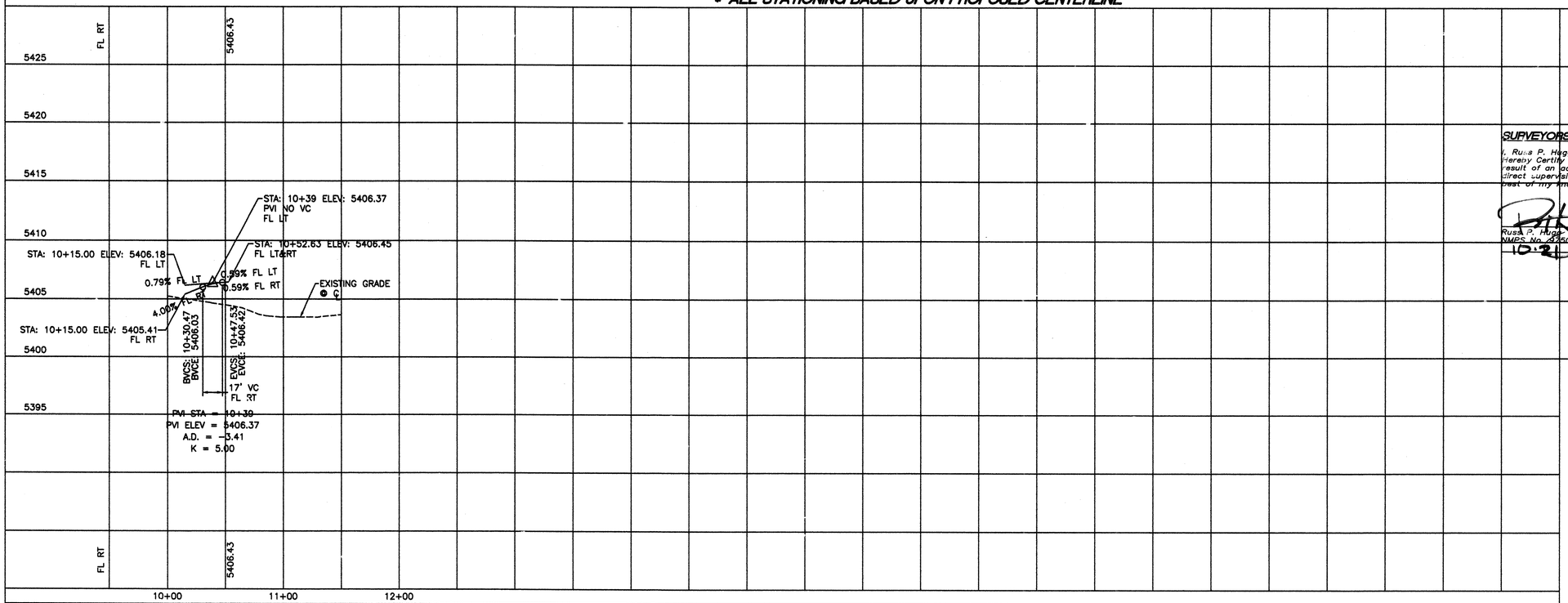
- (A) 6' VALLEY GUTTER PER C.O.A. STD DWG #2420
- (B) 4' SIDEWALK TO BE DEFFERED.
- (C) STANDARD C&G PER COA STD DWG #2415A
- (D) HANDICAP RAMP PER COA STD DWG #2441 SEE THIS SHEET
- (E) 4' SIDEWALK TO BE BUILT W/THIS PROJECT PER COA STD DWG #2430

NOTE:

1. SEE MASTER PAVING PLAN FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
2. ALL CURB AND GUTTER ARE TO BE STANDARD UNLESS OTHERWISE NOTED.

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

CALLE PINON
STA: 10+00.00 TO 11+49.63
℄-ALL STATIONING BASED UPON PROPOSED CENTERLINE



SURVEYORS CERTIFICATION

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

Russ P. Hugg
NMPS No. 9750
10-21 20 06

AS BUILT INFORMATION
CONTRACTOR SALLS BROS. (873-8780) DATE 04-06
STAKED BY SURV-TEK DATE 11-06
INSPECTOR'S FIELD NOTEBOOK BY RGE
VERIFICATION BY SURV-TEK DATE 10-06
DRAWING CORRECTED BY SURV-TEK DATE 10-06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14831 PROFESSIONAL ENGINEER REGISTERED PROFESSIONAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: WCWJ DATE: 5-11-04
DRAWN BY: WCWJ DATE: 5-11-04
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300
CHECKED BY: DS DATE: 5-15-04

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
PAVING IMPROVEMENTS
CALLE PINON

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
FEB - 9 2006 REVIEW COMMITTEE	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	9	18

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.

2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.

5. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

6. CONTRACTOR SHALL DETERMINE LOCATION OF ANY UNDERGROUND FACILITY IN OR NEAR WORK AREAS, INCLUDING REQUESTS TO OWNERS/OPERATORS OF SAID FACILITIES PER SECTION 62-14-5 NMSA 1978.

7. CONTRACTOR SHALL PLAN ALL EXCAVATION TO MINIMIZE INTERFERENCE OR DAMAGE OF UNDERGROUND FACILITIES.

8. CONTRACTOR SHALL PROVIDE ADVANCE TELEPHONE NOTICE OF COMMENCEMENT, EXTENT AND DURATION OF ALL EXCAVATION WORK TO THE ONE-CALL NOTIFICATION SYSTEM, OR TO OWNERS/OPERATORS OF ANY EXISTING UNDERGROUND FACILITY IN OR NEAR THE EXCAVATION AREA THAT ARE NOT MEMBERS OF THE ONE-CALL NOTIFICATION CENTER; IN ORDER THAT OWNERS/OPERATORS MAY LOCATE AND MARK UNDERGROUND FACILITY PER SECTION 62-14-5 NMSA 1978 PRIOR TO ANY COMMENCEMENT OF WORK. CONTRACTOR SHALL REQUEST REAFFIRMATION OF LOCATION EVERY TEN (10) WORKING DAYS AFTER INITIAL REQUEST.

9. CONTRACTOR SHALL MAINTAIN EIGHTEEN (18) INCHES BETWEEN EXISTING UNDERGROUND FACILITIES FOR WHICH HAVE BEEN PREVIOUSLY IDENTIFIED AND MARKED BY THE OWNERS/OPERATORS OF SAID FACILITIES. CUTTING EDGE OR POINT OF ANY MECHANICAL EXCAVATING EQUIPMENT UTILIZED IN EXCAVATION AREA WILL BE USED IN A MANNER NECESSARY TO PREVENT DAMAGE TO EXISTING UNDERGROUND FACILITIES.

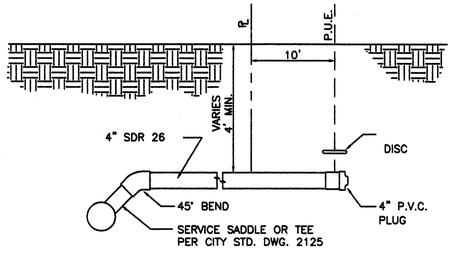
10. CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA AS NECESSARY TO PREVENT DAMAGE TO SAID FACILITIES.

11. CONTRACTOR SHALL BACKFILL ALL EXCAVATIONS IN A MANNER AND WITH MATERIALS AS MAY BE NECESSARY TO PREVENT DAMAGE TO AND PROVIDE RELIABLE SUPPORT DURING AND FOLLOWING BACK FILLING ACTIVITIES FOR PREEXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA.

12. CONTRACTOR SHALL IMMEDIATELY NOTIFY BY TELEPHONE THE OWNER/OPERATOR OF ANY UNDERGROUND FACILITY WHICH MAY HAVE BEEN DAMAGED OR DISLODGED DURING EXCAVATION WORK.

13. CONTRACTOR SHALL NOT MOVE OR OBLITERATE MARKINGS MADE PURSUANT TO CHAPTER 62, ARTICLE 14 NMSA 1978, OR FABRICATE MARKINGS IN A UNMARKED LOCATION FOR THE PURPOSE OF CONCEALING OR AVOIDING LIABILITY FOR VIOLATION OF OR NONCOMPLIANCE WITH THE PROVISIONS OF CHAPTER 62, ARTICLE 11 NMSA 1978.

14. CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES 3 DAYS IN ADVANCE OF CONSTRUCTION.



TYP. SANITARY SYSTEM SERVICE CONNECTION
NTS

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO 1/8 PIPE DIAMETER, 4" MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

PESTRAINED JOINT LENGTHS FOR REDUCERS***

SIZE	L. SIDE	SIZE	L. SIDE
12x10	17	10x6	18
12x8	18	10x4	23
12x6	25	8x6	10
12x4	29	8x4	17
10x8	10	6x4	9

***RESTRAINTS ONLY PLACED ON LARGE LARGE SIDE

RESTRAINED JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)

SIZE		HORIZONTAL BENDS 90°	45°	22-1/2°	11-1/4°
12	UPPER	DON'T USE	14	7	3
	LOWER		3	1	1
10	UPPER	DON'T USE	12	6	3
	LOWER		2	1	1
8	UPPER	DON'T USE	10	5	2
	LOWER		2	1	N/A
6	UPPER	DON'T USE	8	4	2
	LOWER		1	1	N/A
4	UPPER	DON'T USE	5	3	N/A
	LOWER		1	N/A	N/A

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO 1/8 PIPE DIAMETER, 4" MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

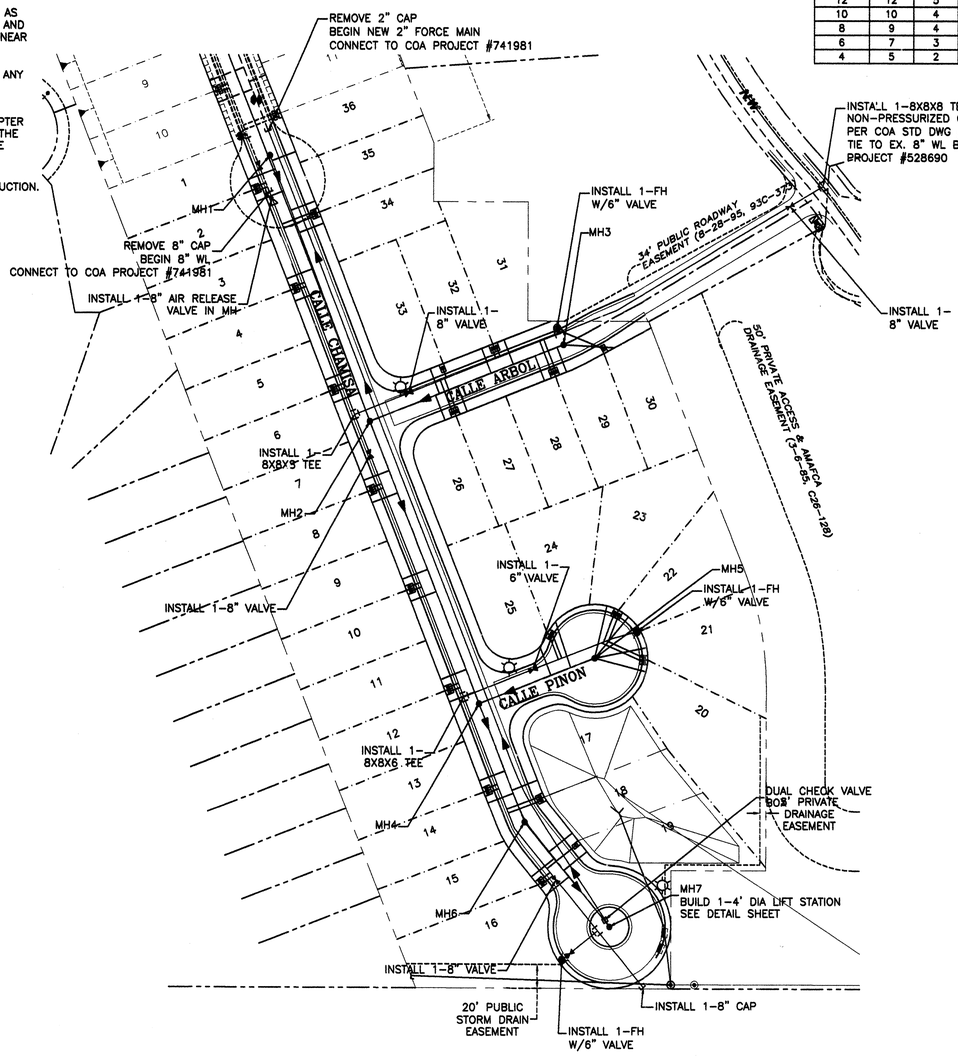
RESTRAINED JOINT LENGTHS FOR TEES*

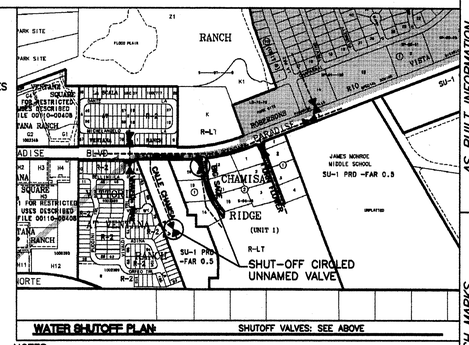
SIZE	LENGTH ALONG RUN** 5'	4'	3'	2'	1'	0'
12x12x12	6	12	17	22	27	33
12x12x10	1	3	9	15	21	28
12x12x8	1	1	1	8	16	23
12x12x6	1	1	1	1	7	18
12x12x4	1	1	1	1	1	12
10x10x10	2	7	12	17	22	28
10x10x8	1	1	4	10	17	23
10x10x6	1	1	1	1	9	18
10x10x4	1	1	1	1	1	12
8x8x8	1	3	8	13	18	23
8x8x6	1	1	1	4	11	18
8x8x4	1	1	1	1	3	12
6x6x6	1	1	2	8	13	18
8x8x4	1	1	1	1	5	12

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)

SIZE	HORIZONTAL BENDS 90°	45°	22-1/2°	11-1/4°	VALVES DEAD END
12	12	5	2	1	34
10	10	4	2	1	29
8	9	4	2	1	24
6	7	3	1	1	18
4	5	2	1	N/A	13





WATER SHUTOFF PLAN SHUTOFF VALVES: SEE ABOVE

NOTES:
1. WATER SHUT-OFF SHALL BE COORDINATED WITH NEW MEXICO UTILITIES, INC.
2. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
3. NOTIFY NEW MEXICO UTILITIES (898-2661) THREE(3) WORKING DAYS IN ADVANCE OF EXECUTION OF THE WATER SHUT-OFF PLAN
4. ALL WATERLINE CONNECTIONS, CAP, JOINTS TO BE BLOCKED PER DETAILS THIS SHEET OR RESTRAINED PER NMUI STANDARDS.
5. ALL WATERLINES TO BE PVC, UNLESS OTHERWISE NOTED.
6. SHUT-OFF VALVES INDICATED IN THE ABOVE PLAN IN THE EVENT OF EMERGENCY

LEGEND

- EXISTING SAS MANHOLE
- EX. 8" SAS — EXISTING SANITARY SEWER LINE
- PROPOSED SAS MANHOLE
- PROPOSED SAS FORCE MAIN CLEANOUT
- DIRECTION OF FLOW
- 8" SAS — PROPOSED SANITARY SEWER LINE
- SANITARY SEWER SERVICE LINE
- EXISTING VALVE W/BOX
- EXISTING FIRE HYDRANT
- EX. 12" WL — EXISTING WATER LINE
- PROPOSED METER
- PROPOSED VALVE W/BOX
- PROPOSED FIRE HYDRANT
- WATER SERVICE LINE
- 8" WL — PROPOSED WATER LINE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- BOUNDARY LINE
- EASEMENT
- STREET LIGHTS

GRAPHIC SCALE
60 30 0 30 60
SCALE: 1"=60'

AS BUILT INFORMATION
CONTRACTOR Sales Bros. DATE 2/06
WORK PERFORMED BY Surv-Tek DATE 1/06
INSPECTION'S ACCEPTANCE BY RLE DATE 1/06
VERIFICATION BY Surv-Tek DATE 1/06
DRAWINGS BY Surv-Tek DATE 2/06
MICRO-FILM INFORMATION

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14827 PROFESSIONAL ENGINEER REGISTERED

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: WCWJ	DATE: 5-11-04
		DRAWN BY: WCWJ	DATE: 5-11-04
		DRAWN NAME: 2300-DRC-PHASEII-5-10-04X.DWG	JOB NO.: 2300
		CHECKED BY: DS	DATE: 5-15-04

5-17-04
Rio Grande Engineering
1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 573-0666

NEW MEXICO UTILITIES & CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
MASTER UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
REVIEWED FEB - 9 2006	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO. 741982 | ZONE MAP NO. B-10-Z | SHEET 10 OF 18

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD
C2	50.02	230.00	11°27'48"	S26°57'00"E	49.94

UTILITY LINE TABLE		
LINE	LENGTH	BEARING
L7	198.87	S21°13'06"E
L8	255.07	S21°13'06"E
L9	173.10	S21°13'06"E
L10	145.09	S39°01'44"E
L11	38.94	S50°31'37"W
L12	237.88	S20°47'41"E
L13	255.07	S21°13'06"E
L14	113.80	S36°59'53"E
L15	109.62	N32°40'54"W
L16	623.21	N21°13'06"W

WL TABLE

LOT #	STATION	SERVICE
1&2	10+52.48	DOUBLE
3&4	11+42.48	DOUBLE
5&6	12+32.48	DOUBLE
7&8	13+22.48	DOUBLE
9&10	14+12.48	DOUBLE
11&12	15+02.48	DOUBLE
13&14	15+92.48	DOUBLE
15&16	16+77.04	DOUBLE
17&18	16+71.05	DOUBLE
19	16+14.98	SINGLE
34&35	10+90.00	DOUBLE
36	EX. METER	DOUBLE

* ● CONNECTION TO 8" SAS

SAS TABLE

LOT #	STATION*	LF	INV.*	INV ELEV. ● PL
1	10+42.48	25	5403.84	5408.82
2	10+62.48	25	5403.53	5408.82
3	11+32.48	25	5402.43	5407.06
4	11+52.48	25	5402.11	5407.06
5	12+22.48	25	5401.01	5405.30
6	12+42.48	25	5400.70	5405.30
7	13+12.48	25	5399.50	5404.82
8	13+32.48	25	5399.18	5404.82
9	14+02.48	25	5398.09	5404.28
10	14+22.48	25	5397.77	5404.28
11	14+92.48	25	5396.67	5402.93
12	15+12.48	25	5396.36	5402.93
13	15+82.48	25	5395.74	5400.15
14	16+02.48	25	5395.62	5400.15
15	16+68.15	25	5395.12	5397.38
16	16+88.15	25	5395.00	5397.38
17	16+80.99	25	5403.16	5399.44
18	16+60.99	25	5393.83	5399.44
19	15+99.88	25	5394.89	5397.63
34	11+00.00	22	5402.94	5408.09
35	10+80.00	22	5403.25	5408.09
36	10+34.85	22	5403.96	5408.97

STA: 10+10.00 CO1
OFFSET: 7.98 L
REMOVE 2" CAP
CONNECT TO TO EX. 2" SAS
INV=5405.73

STA: 10+29.85 MH1
OFFSET: 1.76 L
BUILD 1-4' DIA.
TYPE E MH W/STAIRS
RIM=5412.83
INV OUT=5404.04

STA: 10+58.85
OFFSET: 10.00 R
REMOVE 8" CAP
BEGIN NEW 8" WL
INSTALL 1-AIR RELEASE VALVE IN MH
VAL-MATIC 201-C OR APPROVED EQUAL
PER COA STD DWG #2350

STA: 12+57.72
OFFSET: 10.00 R
INSTALL 1-8x8x8 TEE
RESTRAIN 23'

STA: 12+87.72 MH2
OFFSET: 0.00 R
BUILD 1-4' DIA TYPE E MH W/STAIRS
RIM=5409.29
INV IN=5400.30
INV OUT=5400.20

STA: 12+93.99
OFFSET: 10.00 R
INSTALL 1-8" VALVE
RESTRAIN 24'

STA: 15+12.79
OFFSET: 10.00 R
INSTALL 1-8x6x6 TEE
RESTRAIN 23'

STA: 15+22.79 MH4
OFFSET: 0.00 L
BUILD 1-4' DIA TYPE E MH W/STAIRS
RIM=5408.10
INV IN=5398.20
INV OUT=5398.10

STA: 15+80.24
OFFSET: 7.98 L
BEGIN R250' CURVELINEAR 2" FM
INV=5398.82

STA: 16+28.86 MH6
OFFSET: 1.17 R
BUILD 1-4' DIA TYPE E MH W/STAIRS
RIM=5402.93
INV IN=5394.43
INV OUT=5394.33

STA: 16+32.60
OFFSET: 11.36 L
BEGIN R250' CURVELINEAR 2" FM
INV=5398.40

STA: 16+83.31
OFFSET: 10.29 R
INSTALL 1-8" VALVE
RESTRAIN 24'

STA: 17+38.83
OFFSET: 9.86 R
INSTALL 1-8X8X6 TEE
INSTALL 1-6" VALVE
INSTALL 1-39 LF OF 8" C-900 WL
INSTALL 1-FH
PER COA STD DWG #2340
FULLY RESTRAINED
FLANGE=5400.69

STA: 17+42.53 MH7
OFFSET: 0.00 L
BUILD 1-4.5' DIA LIFT STATION
RIM=5401.52
BOTTOM OF MH=5388.18
8" SAS INV IN=5394.88
2" SAS FORCE MAIN INV OUT=5398.40
SEE DETAIL SHEETS 15-18

STA: 18+00.20
OFFSET: 0.31 L
END 8" SAS
CAP LINE
INV=5392.59

STA: 18+00.33
OFFSET: 9.60 R
INSTALL 1-8" CAP
RESTRAIN 24'

CALLE ARROYO

CALLE PIÑON

CALLE CHAMISA

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 27 33 34 35 36

L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16

CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

NOTE:
1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 FULLY RESTRAINED
3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO AND CONSTRUCTION OF UTILITIES.
4. WATER VALVES SHALL BE PER COA STD DWG #2326, 2328, 2461.
5. ALL WATER SERVICES SHALL BE PER COA STD DWG #2361, 2362, 2366, 2368
6. REFER TO TP PUMP AND PIPE SPECS AND DETAILS FOR LIFT STATION INSTALATION.

CALLE CHAMISA
STA: 10+00.00 TO 18+09.12
●-ALL STATIONING BASED UPON PROPOSED CENTERLINE

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

238' LF OF 8" SDR-35 @ 1.57%
255' LF OF 8" SDR-35 @ 1.57%
106' LF OF 8" SDR-35 @ 0.60%
114' LF OF 8" SDR-35 @ 0.60%
58' LF OF 8" SDR-35 @ 2.88%

733' LF OF 2" SDR-35 FORCE MAIN SLOPE VARIES

5425
5420
5415
5410
5405
5400
5395
5390

PROPOSED GRADE AT ℄ OF ROAD
EXISTING GRADE AT ℄ OF ROAD
3' MIN. BURY
8" C-900 WL
1.50' CLEARANCE

STA: 10+58.65 TOP: 5409.06
INSTALL 1-11.25° VERTICAL BEND
RESTRAIN 3'
INSTALL 1-AIR RELEASE VALVE IN MH

STA: 10+38.41 INV: 5405.18
BEGIN VERTICAL CURVELINEAR 2" FM R250'

STA: 10+57.10 INV: 5404.89
END VERTICAL CURVELINEAR 2" FM R250'

STA: 12+57.72 TOP: 5406.22
INSTALL 1-8X8X6 TEE

STA: 12+93.99 TOP: 5405.70
INSTALL 1-8" VALVE

STA: 15+12.79 TOP: 5402.58
INSTALL 1-8X6X6 TEE

STA: 15+22.79 TOP: 5402.43
INSTALL 1-11.25° VERTICAL BEND
RESTRAIN 3'

STA: 15+24.80 TOP: 5400.69
INSTALL 1-8" VALVE

STA: 16+02.11 INV: 5398.56
BEGIN VERTICAL CURVELINEAR 2" FM R250'

STA: 16+30.95 INV: 5398.40
END VERTICAL CURVELINEAR 2" FM R250'

STA: 17+38.83 TOP: 5394.85
INSTALL 1-8X8X6 TEE

STA: 17+97.92 INV: 5394.77
24" RCP SD

STA: 18+00.33 TOP: 5392.65
INSTALL 1-8" CAP

STA: 10+29.85 MH1 L
BUILD 1-4' DIA.
TYPE E MH W/STAIRS
INV IN=5404.17
INV OUT=5404.04 0.370

STA: 12+57.72 MH2
BUILD 1-4' DIA TYPE E MH W/STAIRS
RIM=5409.29
INV IN=5400.30 0.959
INV OUT=5400.20 0.043
0.019

STA: 15+22.79 MH4
BUILD 1-4' DIA TYPE E MH W/STAIRS
RIM=5408.10
INV IN=5398.20 0.671
INV OUT=5398.10 0.046
0.916

STA: 16+28.86 MH6
BUILD 1-4' DIA TYPE E MH W/STAIRS
RIM=5402.93
INV IN=5394.43 0.315
INV OUT=5394.33 0.315
0.916

STA: 17+42.53 MH7
BUILD 1-4.5' DIA LIFT STATION
RIM=5401.52
BOTTOM OF MH=5388.18
8" SAS INV IN=5394.88
2" SAS INV OUT=5398.40
FUTURE SAS=5394.25
SEE DETAIL SHEETS 15-18

STA: 18+00.20
OFFSET: 0.31 L
END 8" SAS
CAP LINE
INV=5392.59

SURVEYORS CERTIFICATION

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

Russ P. Hugg
NMPS No. 9750
10-21 20 06

5-17-05

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 375-0660

NEW MEXICO UTLITIES AND CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ***VILLA DE LA CHAMISA UNIT 2***
UTILITY IMPROVEMENTS
CALLE CHAMISA

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
FEB - 9 2006	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	11	18

AS BUILT INFORMATION
CONTRACTOR SALAS BROS. DATE 4/06
STAKED BY SURVTEK DATE 11/04
INSPECTOR'S INITIALS RGE DATE 10/04
FIELD VERIFICATION BY SURVTEK DATE 10/04
CORRECTED BY SURVTEK DATE 10/04

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.99996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

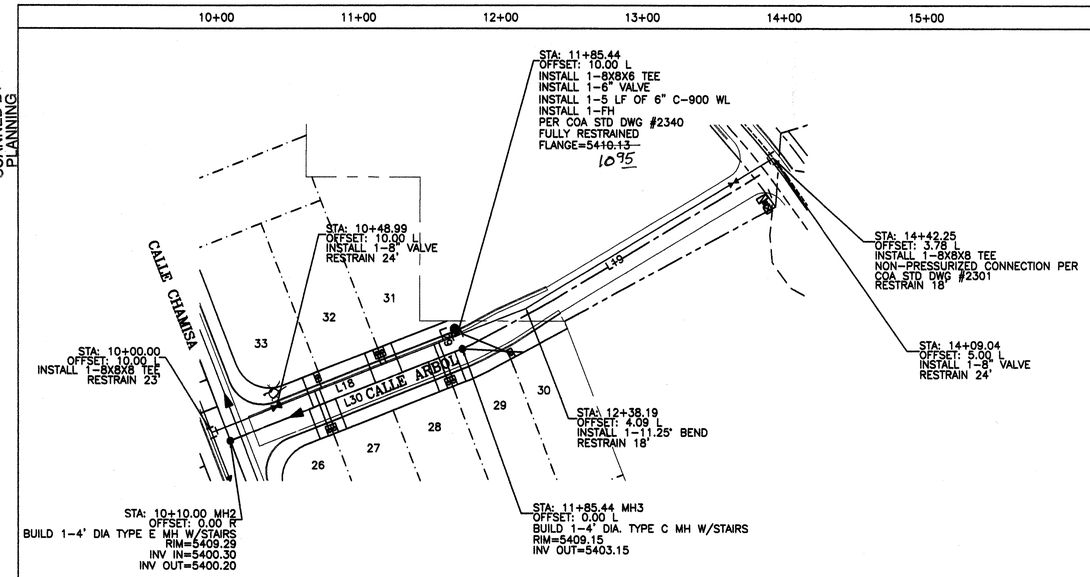
SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14831 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY: WCMJ DATE: 5-11-04
DRAWN BY: WCMJ DATE: 5-11-04
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300
CHECKED BY: DS DATE: 5-15-04



* ● CONNECTION TO 8" SAS

SAS TABLE

LOT #	STATION*	LF	INV.*	INV ELEV. ● PL
26	10+69.64	22	5401.27	5407.03
27	10+89.64	22	5401.59	5407.03
28	11+59.64	22	5402.73	5406.36
29	11+79.64	22	5403.06	5406.36
30	11+85.44	32	5403.48	5405.52
31	11+40.00	22	5402.41	5406.76
32	11+20.00	22	5402.09	5406.76
33	10+73.08	22	5401.32	5007.21

LOT 30 SHALL BE INSTALLED IN MH PER COA STD DWG #2118

WL TABLE

LOT #	STATION	SERVICE
26&27	10+79.64	DOUBLE
28&29	11+69.64	DOUBLE
30	11+89.39	SINGLE
31&32	11+30.00	DOUBLE
33	10+83.20	SINGLE

UTILITY LINE TABLE

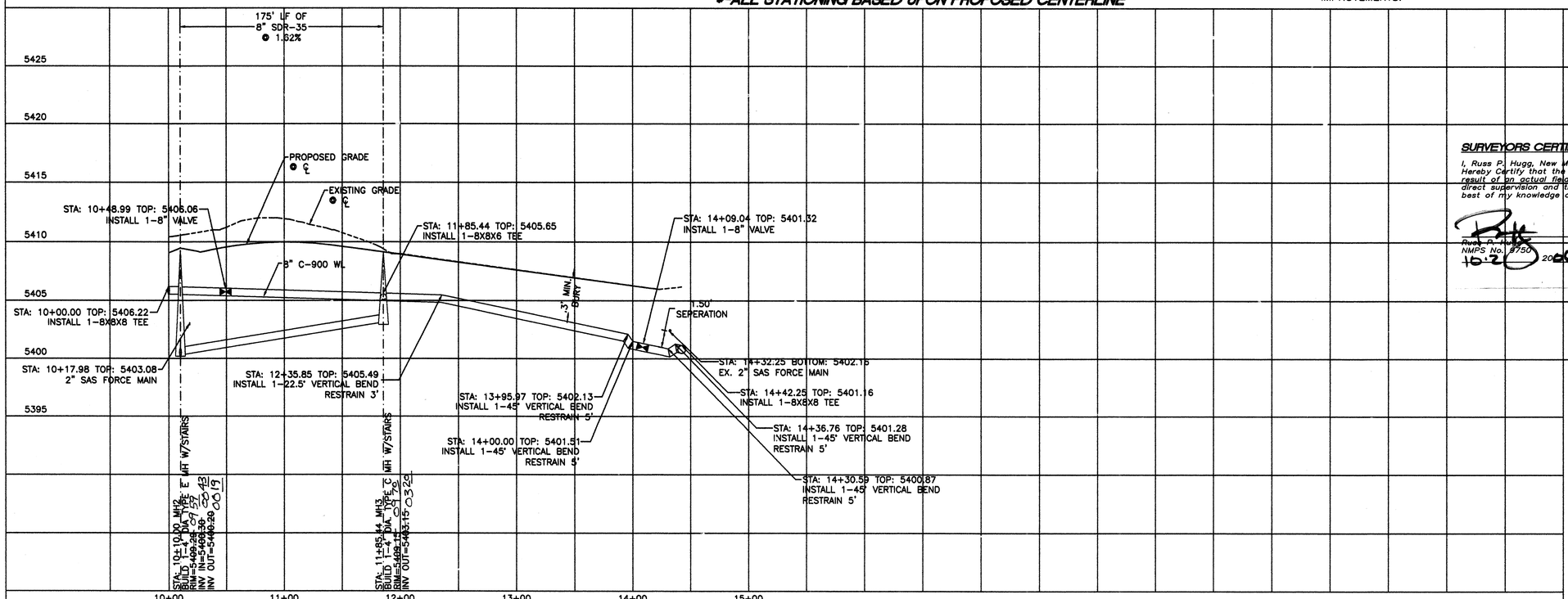
LINE	LENGTH	BEARING
L19	203.48	S59°02'11"W
L18	237.33	N68°48'04"E
L29	5.00	N21°11'56"W
L30	175.44	N68°48'04"E

NOTE:
1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 FULLY RESTRAINED
3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO AND CONSTRUCTION OF UTILITIES.
4. WATER VALVES SHALL BE PER COA STD DWG #2326, 2328, 2461.
5. ALL WATER SERVICES SHALL BE PER COA STD DWG #2361. 2362, 2366, 2368

CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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

CALLE ARBOL
STA: 10+00.00 TO 11+94.18
●-ALL STATIONING BASED UPON PROPOSED CENTERLINE



SURVEYORS CERTIFICATION

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

Russ P. Hugg
NMPS No. 9750
10-20 2006

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
UTILITY IMPROVEMENTS
CALLE ARBOL

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVE FEB 9 2006	APPROVE MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO. 741982 | ZONE MAP NO. B-10-Z | SHEET 12 OF 18

AS BUILT INFORMATION
CONTRACTOR Sales & Bros. DATE 4-06
STAKED BY SURVTEK DATE 1/06
INSPECTOR'S FIELD CHANGES BY RGE DATE 10/06
VERIFICATION BY SURVTEK DATE 10/06
CORRECTED BY SURVTEK DATE 10/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

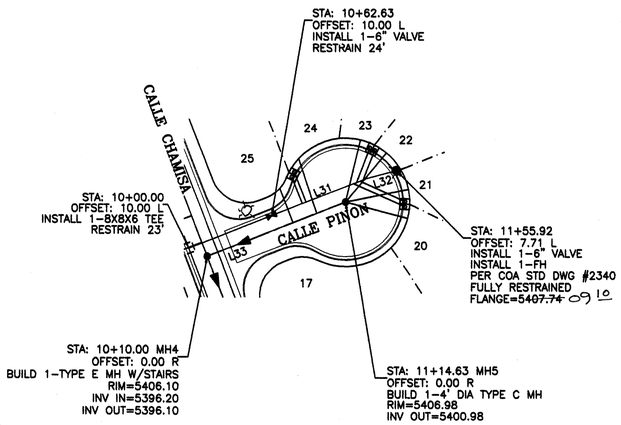
BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14522 PROFESSIONAL ENGINEER REGISTERED

REVISIONS
NO. | BY | DATE | REMARKS

DESIGN
DESIGNED BY: WCWJ DATE: 2-25-05
DRAWN BY: WCWJ DATE: 2-25-05
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300
CHECKED BY: DS DATE: 2-26-05



* © CONNECTION TO 8" SAS

SAS TABLE

LOT #	STATION*	LF	INV.*	INV ELEV. © PL
20	11+14.63	25	5401.31	5403.61
21	11+14.63	25	5401.31	5403.61
22	11+14.63	25	5401.31	5403.59
23	11+14.63	25	5401.31	5403.59
24	10+92.84	25	5399.98	5403.18
25	10+74.99	25	5399.17	5403.18

LOTS 20,21,22,23 SHALL BE INSTALLED IN MH PER COA STD DWG #2118

WL TABLE

LOT #	STATION	SERVICE
20&21	11+27.10	DOUBLE
22&23	11+29.18	DOUBLE
24&25	10+87.22	DOUBLE

UTILITY LINE TABLE		
LINE	LENGTH	BEARING
L30	175.44	N68°48'04"E
L31	134.63	N68°46'54"E
L32	21.41	S74°55'51"W

NOTE:
1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 FULLY RESTRAINED
3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO AND CONSTRUCTION OF UTILITIES.
4. WATER VALVES SHALL BE PER COA STD DWG #2326, 2328, 2461.
5. ALL WATER SERVICES SHALL BE PER COA STD DWG #2361, 2362, 2366, 2368

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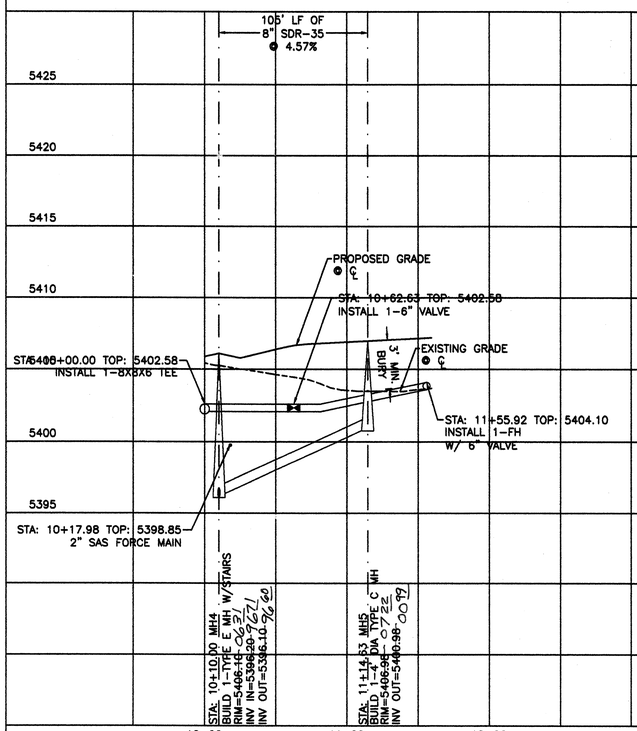
SCALE: HORIZ. 1"=50'
VERT. 1"= 5'

CALLE PINON
STA: 10+00.00 TO 11+59.63
*-ALL STATIONING BASED UPON PROPOSED CENTERLINE



SURVEYORS CERTIFICATION

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

Russ P. Hugg
NMPS No. 9750
10-21 20 05

NEW MEXICO 9750 PROFESSIONAL SURVEYOR STATE OF RUSS P. HUGG

2-17-06

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
PAVING IMPROVEMENTS
CALLE PINON

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
FEB - 9 2006 DESIGN REVIEW COMMITTEE	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	13	18

AS BUILT INFORMATION
CONTRACTOR SALLS BROS. DATE 04/06
WORK STAKED BY SURV TEK DATE 11/06
INSPECTORS BY PGE DATE
FIELD VERIFICATION BY SURV TEK DATE 10/06
CORRECTED BY SURV TEK DATE 10/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

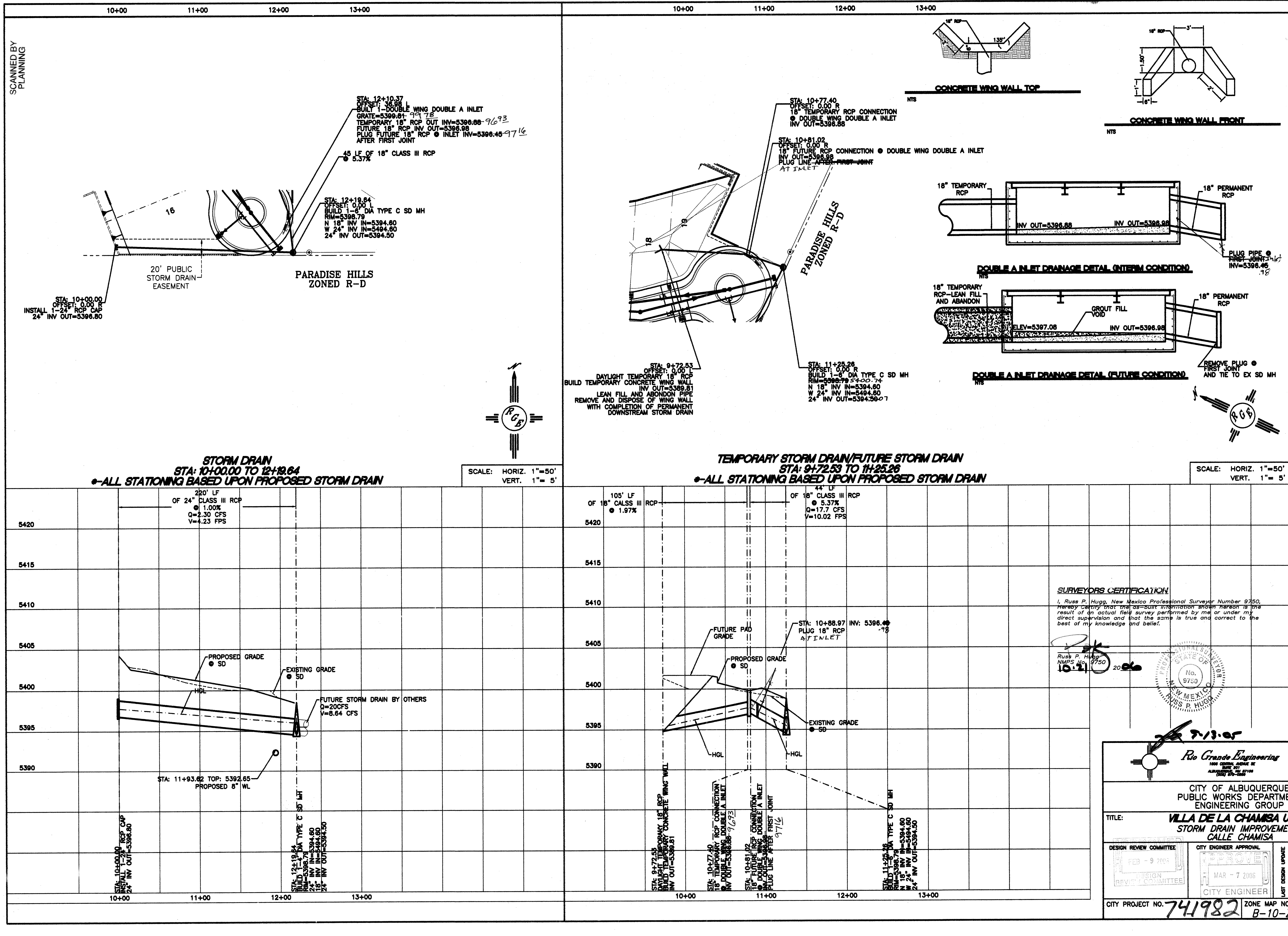
BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID SOULE
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: WCWJ DATE: 2-25-05
DRAWN BY: WCWJ DATE: 2-25-05
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300
CHECKED BY: DS DATE: 2-26-05



SURVEYORS CERTIFICATION

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Russ P. Hugg NMPS No. 9750 10-21 2006

AS BUILT INFORMATION
CONTRACTOR: SALLS BROS.
WORK COMPLETED:
STAKED BY: SURV TEK DATE 4/06
INSPECTED BY: BE DATE 11/06
FIELD VERIFICATION BY: SURV TEK DATE 10/06
DRAWINGS CORRECTED BY: SURV TEK DATE 10/06

MICRO-FILM INFORMATION
RECORDED BY / DATE / NO.

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. | DATE | REMARKS | BY
DESIGN

DESIGNED BY: WCWJ DATE: 7-11-05
DRAWN BY: WCWJ DATE: 7-11-05
DRAWING NAME: 2300_DRC-PHASEI-5-10-04X.DWG JOB NO: 2300
CHECKED BY: DS DATE: 7-11-05

7-13-05

Rio Grande Engineering

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: VILLA DE LA CHAMISA UNIT 2
STORM DRAIN IMPROVEMENTS
CALLE CHAMISA

DESIGN REVIEW COMMITTEE: FEB - 9 2006 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAR - 7 2006 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

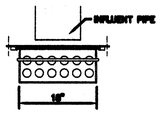
CITY PROJECT NO. 741982 | ZONE MAP NO. B-10-Z | SHEET 14 OF 18

TRASH BASKET

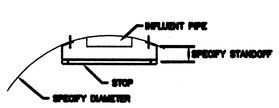
SER-B1A 3/31/00
PAGE 24

HALLIDAY PRODUCTS

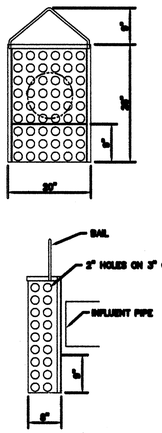
SERIES B1A
(STANDARD TRASH BASKET SYSTEM)



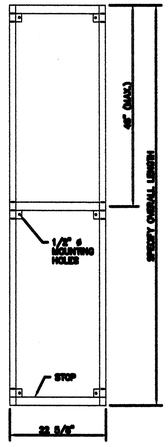
ASSEMBLED SECTION
(FLAT WALL)



SECTION @ ROUND WALL



SIDE



GUIDERAIL

STANDARD FEATURES:

- ALL ALUMINUM CONSTRUCTION
- PERFORATED SCREENING STYLE
- EXTRUDED ALUMINUM GUIDERAIL SYSTEM

SPECIFICATIONS

THE B1A SERIES TRASH BASKET SYSTEM AS MANUFACTURED BY HALLIDAY PRODUCTS, INC. OF ORLANDO, FLORIDA SHALL BE OF THE PERFORATED SCREEN STYLE BASKET, HAVING 2" HOLES ON 3" CENTERS. THE BASKET SHALL BE OF .080" ALUMINUM WITH ALUMINUM TRACKING ANGLES AS PART OF THE BASKET FRAME. THE GUIDE RAILS SHALL BE EXTRUDED ALUMINUM CHANNELS SIZED TO FACILITATE EASY OPERATION OF THE BASKET. AN ALUMINUM BASKET STOP SHALL BE SUPPLIED.

NOTES:

- MODEL B4A STAINLESS STEEL BASKET AVAILABLE
- WALL STAND-OFF AVAILABLE (SPECIFY)
- OTHER SIZES AVAILABLE
- STAINLESS STEEL PIPE RAIL SYSTEM AVAILABLE

REQUIRED INFORMATION

- BASIN DIAMETER
- DEPTH OF INVERT
- LENGTH OF STANDOFF (IF REQUIRED)

STAINLESS STEEL SOCKETS FOR PORTABLE HOIST

SER-D3 2/28/01
PAGE 28

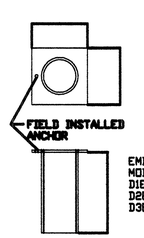
HALLIDAY PRODUCTS

SERIES D
(STAINLESS STEEL SOCKETS)

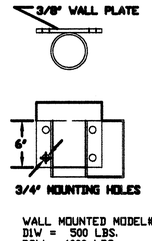
STANDARD FEATURES:

- STAINLESS STEEL CONSTRUCTION
- AVAILABLE IN 3 STYLES

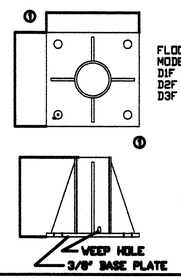
STANDARD



EMBED STYLE
MODEL#
D1E = 500 LBS.
D2E = 1000 LBS
D3E = 1500 LBS.



WALL MOUNTED MODEL#
D1W = 500 LBS.
D2W = 1000 LBS
1500 LBS. N.A.

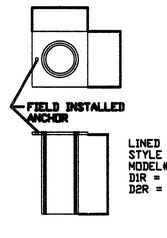


FLOOR MOUNTED
MODEL#
D1F = 500 LBS.
D2F = 1000 LBS
D3F = 1500 LBS. ①

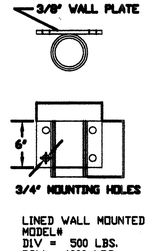
① FOR D3F THE BASE PLATE IS 12" X 12" AND THE MOUNTING HOLES ARE 7/8" ø.

LINED

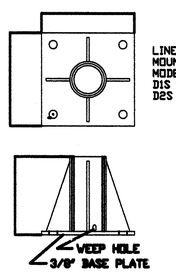
- THESE SOCKETS ARE LINED FOR SMOOTHER ROTATION.



LINED EMBED
STYLE
MODEL#
D1R = 500 LBS.
D2R = 1000 LBS



LINED WALL MOUNTED
MODEL#
D1V = 500 LBS.
D2V = 1000 LBS



LINED FLOOR
MOUNTED
MODEL#
D1S = 500 LBS.
D2S = 1000 LBS

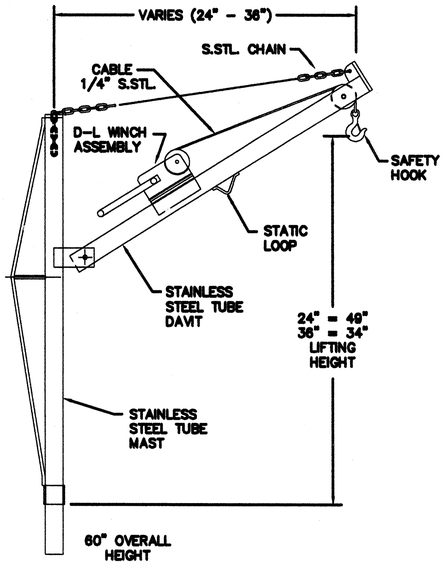
LINED SOCKETS ARE NOT AVAILABLE FOR THE 1500 LBS. MODELS.

STAINLESS STEEL ADJUSTABLE PORTABLE HOIST

SER-DB 3/16/01
PAGE 27

HALLIDAY PRODUCTS

SERIES DB
(STAINLESS STEEL ADJ. PORTABLE HOIST)



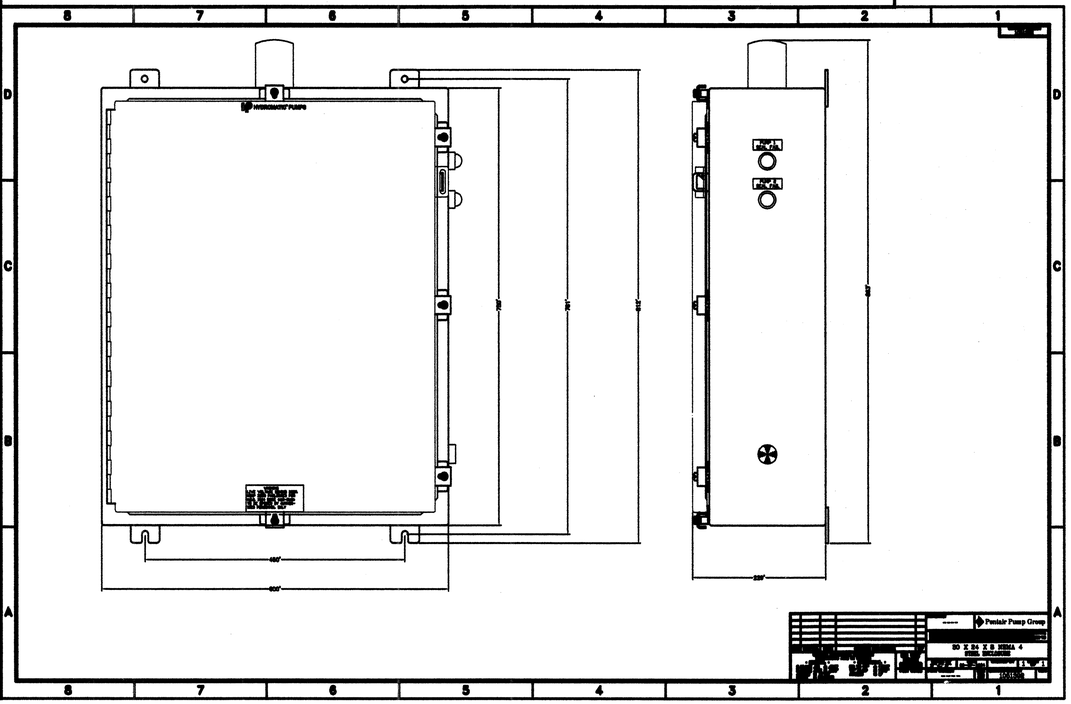
STANDARD FEATURES:

- STAINLESS STEEL CONSTRUCTION
- ADJUSTABLE REACH
- 30 FEET OF STAINLESS STEEL CABLE
- GALVANIZED SAFETY HOOK
- DUTTON-LAINSON MARINE GRADE HAND WINCH

OPTIONS:

- ADDITIONAL CABLE AVAILABLE (SPECIFY LENGTH)
- EMBED, WALL MOUNTED OR FLOOR MOUNTED SOCKET (LINED OR UNLINED)
- STAINLESS STEEL WINCH
- STAINLESS STEEL SAFETY HOOK
- OTHER REACHES AVAILABLE ON REQUEST CONSULT FACTORY

MODEL NO.	MAST DIA.	LOAD (MAX.)	UNIT WEIGHT
D1B36B	2 3/8"	300 LBS.	73 LBS.
D2B36B	3 1/2"	1000 LBS.	96 LBS.
D3B36B	4"	1330 LBS.	136 LBS.



Record Drawing

SCANNED BY PLANNING

AS BUILT INFORMATION
CONTRACTOR SALES BY
STAKED BY DATE
INSPECTION'S PASSED TO RGE BY DATE 10/06
VERIFICATION BY DATE
CONNECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID SCOTT REYNOLDS MCGEE NEW MEXICO 14554 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: WCWJ	DATE: 2-28-05
		DRAWN BY: WCWJ	DATE: 2-28-05
		DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG	JOB NO.: 2300
		CHECKED BY: DS	DATE: 2-29-05

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 873-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: VILLA DE LA CHAMISA UNIT 2
DETAIL SHEET
LIFT STATION DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB - 9 2006 DESIGN REVIEW COMMITTEE	APPROVED MAR - 7 2006 CITY ENGINEER			

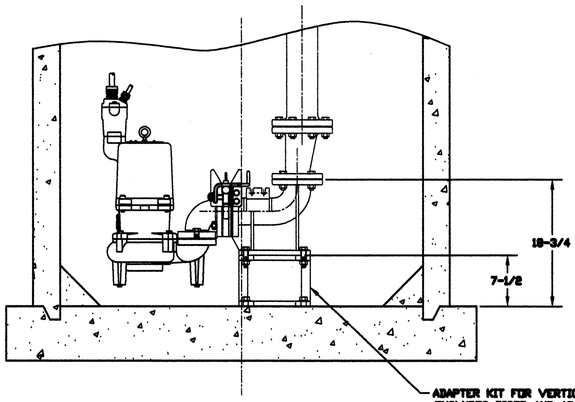
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	15	18

SCANNED BY PLANNING

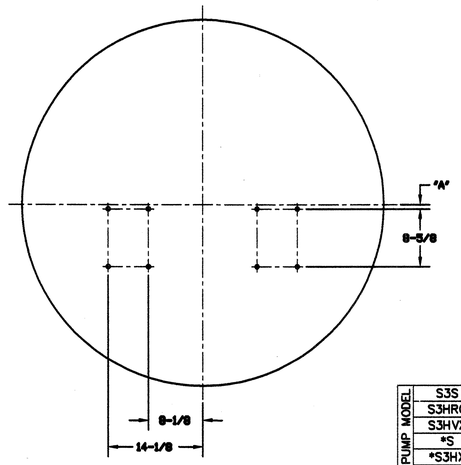
Record Drawing

DWGLIB 6

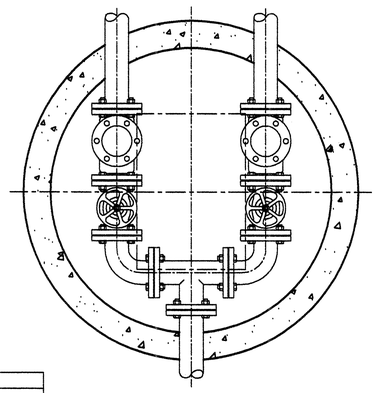
AUXILIARY VIEW FOR VERTICAL PUMP CONNECTIONS



STUD LOCATIONS



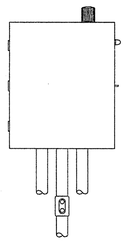
VALVE CONFIGURATION FOR 3" PIPING

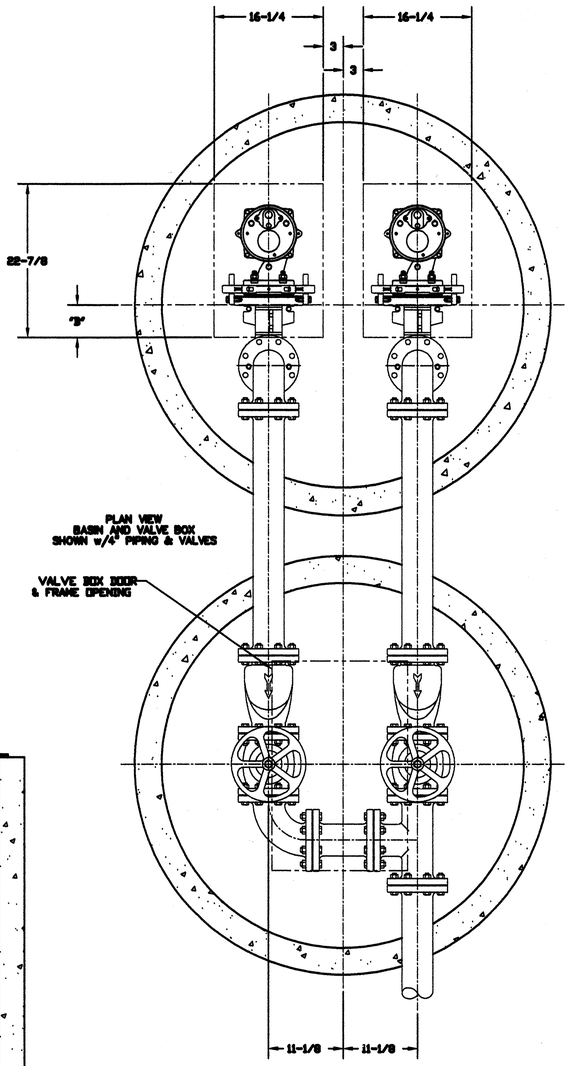


FOR PUMP MODEL	
S3S	
S3HRC	
S3HVX	
*S	
*S3HX	

* VERTICAL DISCHARGE

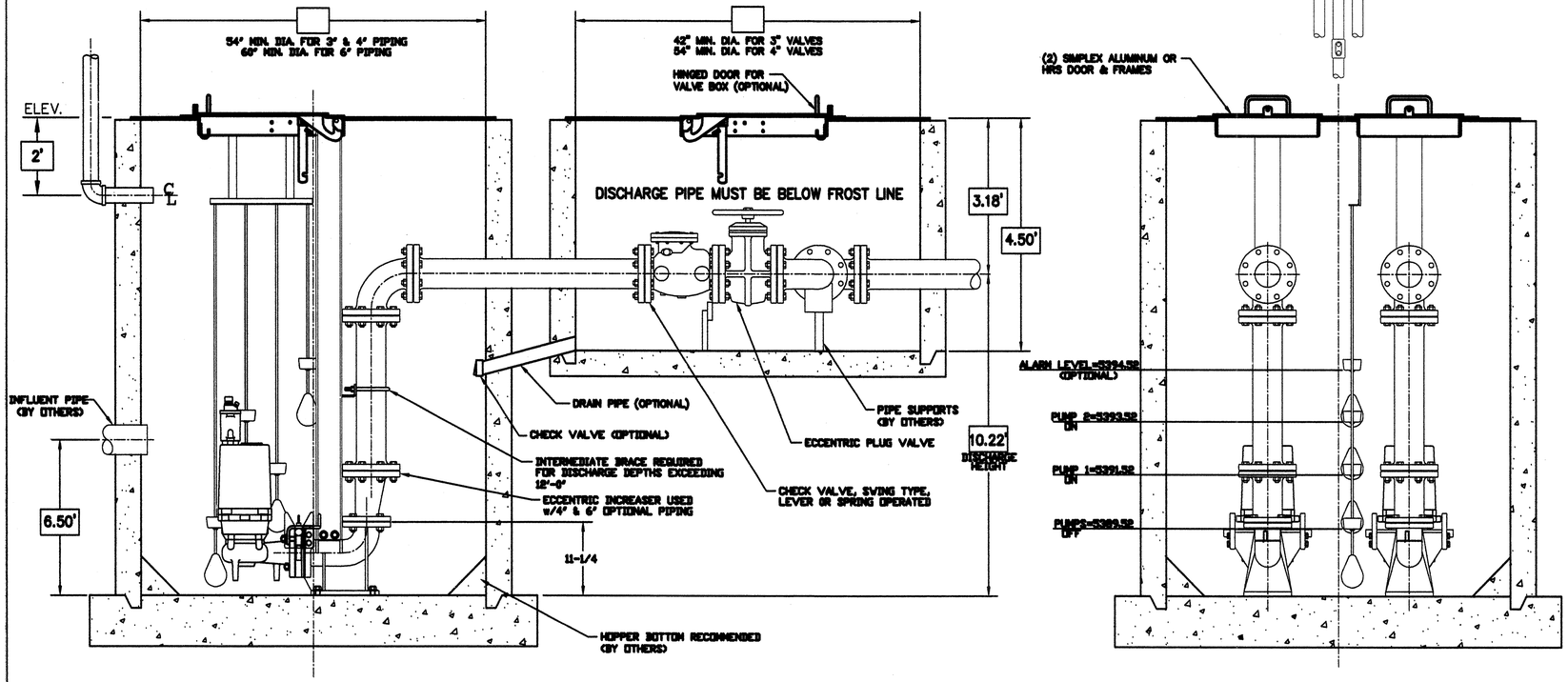
MIN. SUMP DIA.	MIN. VALVE BOX DIA.	PIPING SIZE	A	B
4' – 0"	3' – 6"	3" CON.	5-5/8"	9-7/8"
4' – 6"	4' – 6"	4" ECC.	5/8"	4-7/8"
5' – 0"	5' – 6"	6" ECC.	0"	4-1/4"





PLAN VIEW
BASIN AND VALVE BOX
SHOWN w/4" PIPING & VALVES

VALVE BOX DOOR & FRAME OPENING



INSTALLATION DUPLEX 3" PR IN CONCRETE SUMP & VALVE BOX

AS BUILT INFORMATION
CONTRACTOR: Sales Labs
WORK STAKED BY: Sales Labs DATE
ASBUILTS BY: RGE DATE 11/06
FIELD REMARKS:
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: DATE

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Data Alpha = 00° 15' 53"
Elevation = 5368.283 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: WCWJ	DATE: 2-28-05
		DRAWN BY: WCWJ	DATE: 2-28-05
		DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG	JOB NO.: 2300
		CHECKED BY: DS	DATE: 2-29-05

2-13-05
Rio Grande Engineering
1606 CENTRAL AVENUE NE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: VILLA DE LA CHAMISA UNIT 2
DETAIL SHEET
LIFT STATION DETAILS

DESIGN REVIEW COMMITTEE: RECEIVED FEB – 9 2006 REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAR – 7 2006 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 741982 | ZONE MAP NO. B-10-Z | SHEET 16 OF 18

PHONE (505) 247-4036
FAX (505) 243-0308

PUMP & PIPE COMPANY
1824 SECOND STREET N.W.
P.O. BOX 25144 • ALBUQUERQUE, NEW MEXICO 87125-0144

SUBMITTALS

3-30-2005

SCOPE OF EQUIPMENT

Reference: Villa De La Chamisa –Unit #2, Albuquerque, NM.

Engineer: Rio Grande Engineering
Supplier: T-P Pump & Pipe Company

Symbol [ ] "Lift Station"

We are pleased to quote the following equipment:

2 HYDROMATIC Submersible Grinder Pump
Model #HPGFH300M2-4
3" Flanged Discharge; C.I. Construction;
3HP-230V/1/60-1750RPM.

1 HYDROMATIC Duplex 'PR' Guide Rail System
To include the following:
-(2) 3" C.I. Discharge Elbow.
-(2) Sealing Flange Assembly.
-(2) set SS Upper Guide Brackets.
-(2) 8' Max. Pultruded Guiderail.
-(2) 10' SS Lifting Chain Assembly.

1 HYDROMATIC SS Float Bracket #3962-037-5

1 HYDROMATIC Nema 6 Junction Box #12869-401-5

4 HYDROMATIC 20' N.O. Float Switch #8300-007-1

1 HALLIDAY 1000# Rated SS Portable Hoist #D2B36D

1 HALLIDAY Trash Basket Assembly #B4A w/rails.

1

1 HYDROMATIC Duplex Control Panel
Model #Q
3HP-230/1/60; Nema 4 Steel Enclosure;
Padlock Provision; H-O-A Switches; Circuit Breakers;
HP Rated Contactors (Starters); Overload Relays;
Duplex Pump Controller; Alternator Relay;
120V Float Circuit; UL 508 Rated Panel;
Pump Run/Float Operation Indication Lights;
To include the following options:
1) Alarm Light & Horn Indication (w/push to test & silence) -AFLH.
2) High Water Alarm Activation w/telemetry -HWTA.
3) Pump Failure/Start Lag Pump w/telemetry -PFSLTA.
4) Seal Failure w/telemetry -SFTD.
5) Power Failure w/telemetry -PWRF.
6) Pump Run Indication w/telemetry -PRD.
7) Lightning Suppressor –LS1.
8) Elapsed Time Meter (per pump) -ETMD.
9) Lead Pump Selector Switch -LPS.
10) Power On Light -PO.
11) Anti-Condensation Heater -ACH.
12) Swing-Dead-Front Inner Door -SDF.
13) Inner Door Mounted H-O-A Switch and Pump Run Lights -DMCD.

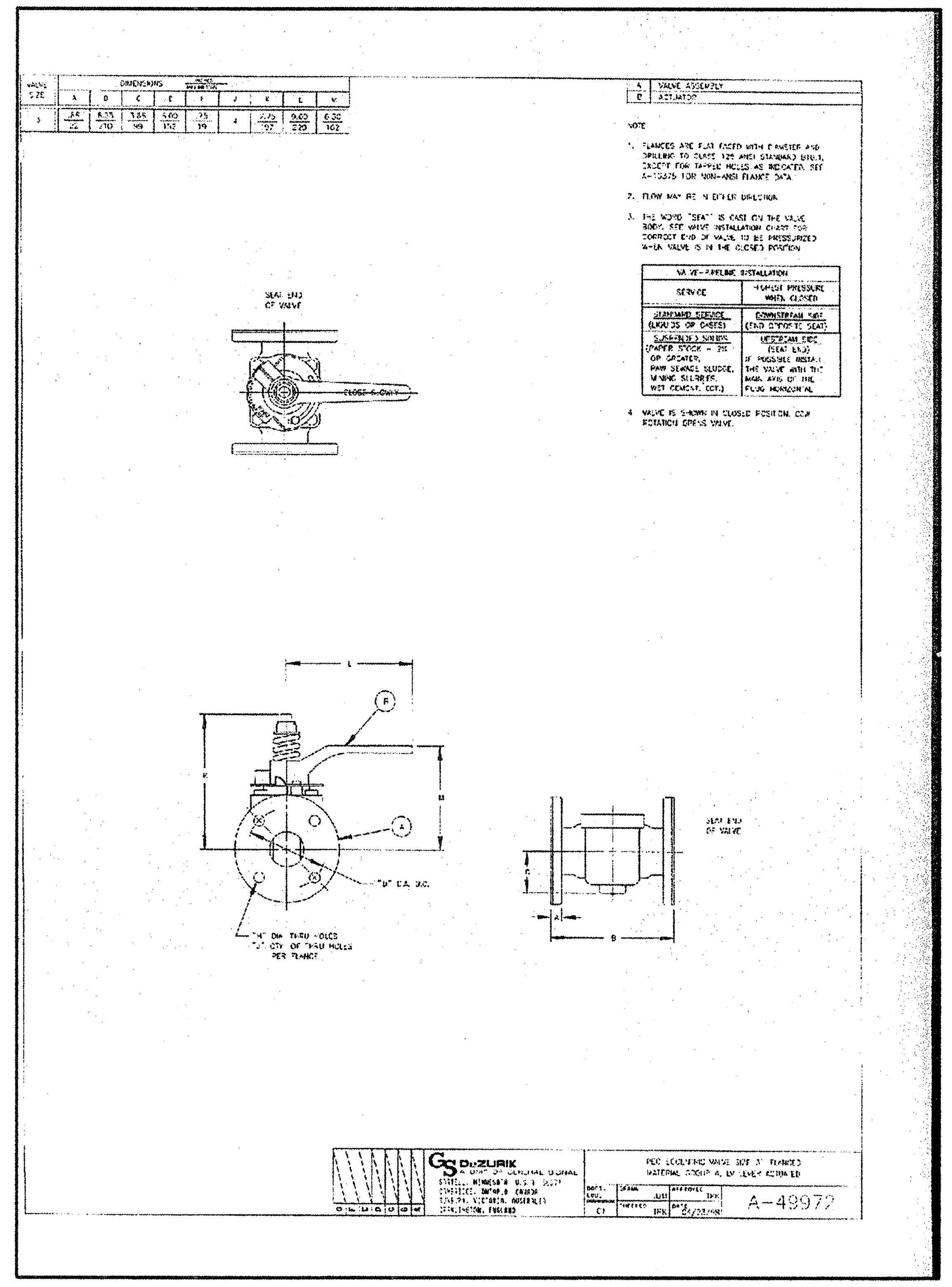
1 AK INDUSTRIES Duplex FRP Basin Assembly
Model #GB-60X96-200-VB
To include the following:
-60" Diameter x 96" Deep FRP Basin.
-FRP Antifloatation Lip w/Fillet Bottom & Duplex Mounting Studs.
-48" Diameter x 48" Max. Depth Valve Box Assembly w/drain.
-(6) Steel Lifting Lugs.
-(1) 8" C.I. Inlet Hub (loose, field mounted).
-(2) 3" Environ Discharge (inter. basin to valve box connection).
-(1) 3" Link Seal Discharge Connection (to service connection).
-(1) 3" Mushroom Vent w/cover adapter (loose, field mounted).
-(1) 2" Nylon Electrical Conduit Connection (loose, field mounted).
-60" x 48" Aluminum Hinged Access Door/Cover.
-Preplumb interior of duplex lift station with 3" PVC pipe and to include: fittings, stainless steel guide rails and installation of valves & Halliday debris basket.

2 DeZURIK 3" Plug Valve #3"-PEC

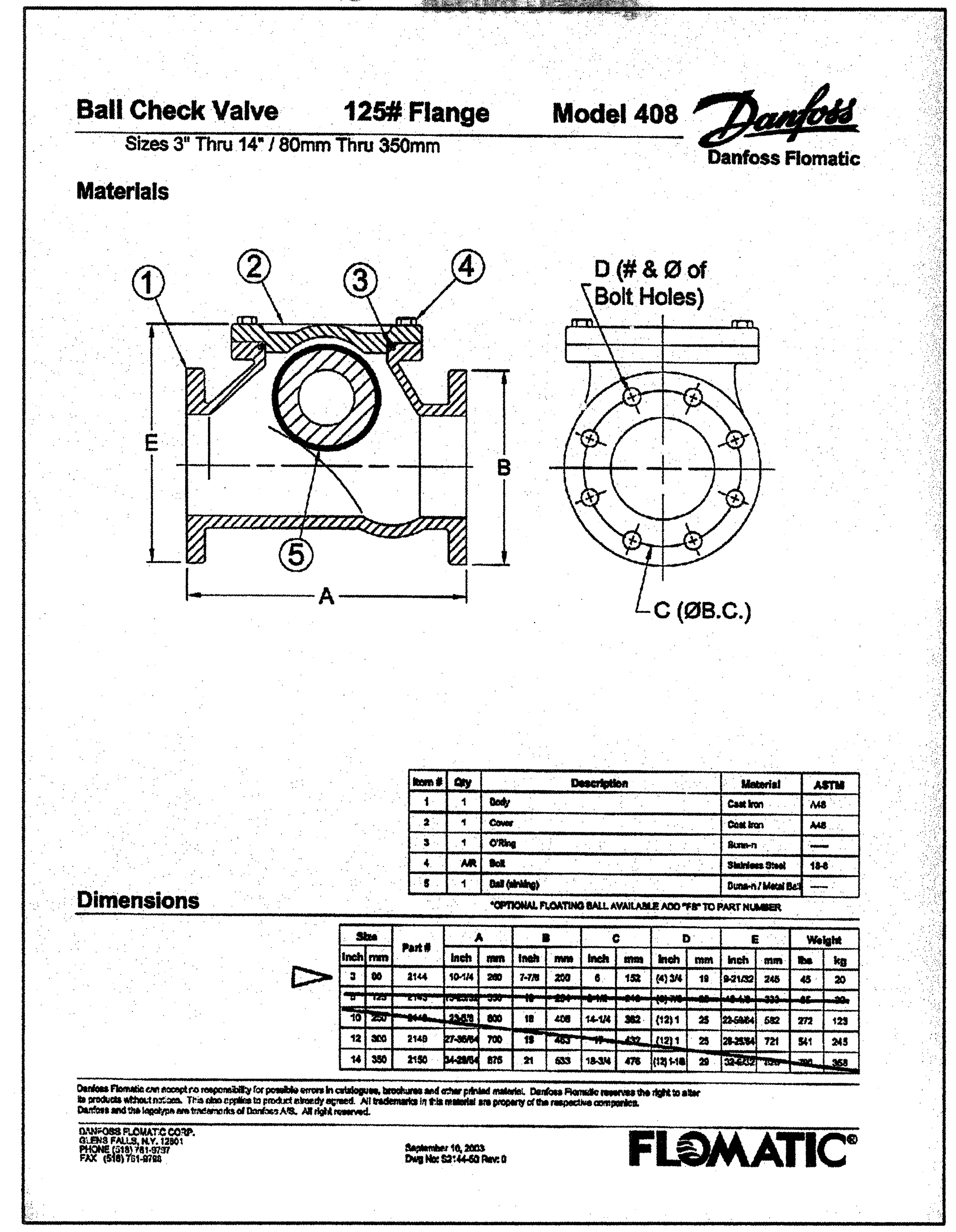
2 FLOMATIC 3" Sewage Ball Check Valve #3"-408

2 WIKA 4" Pressure Gauge/Seal #4"-432.12-0/30#

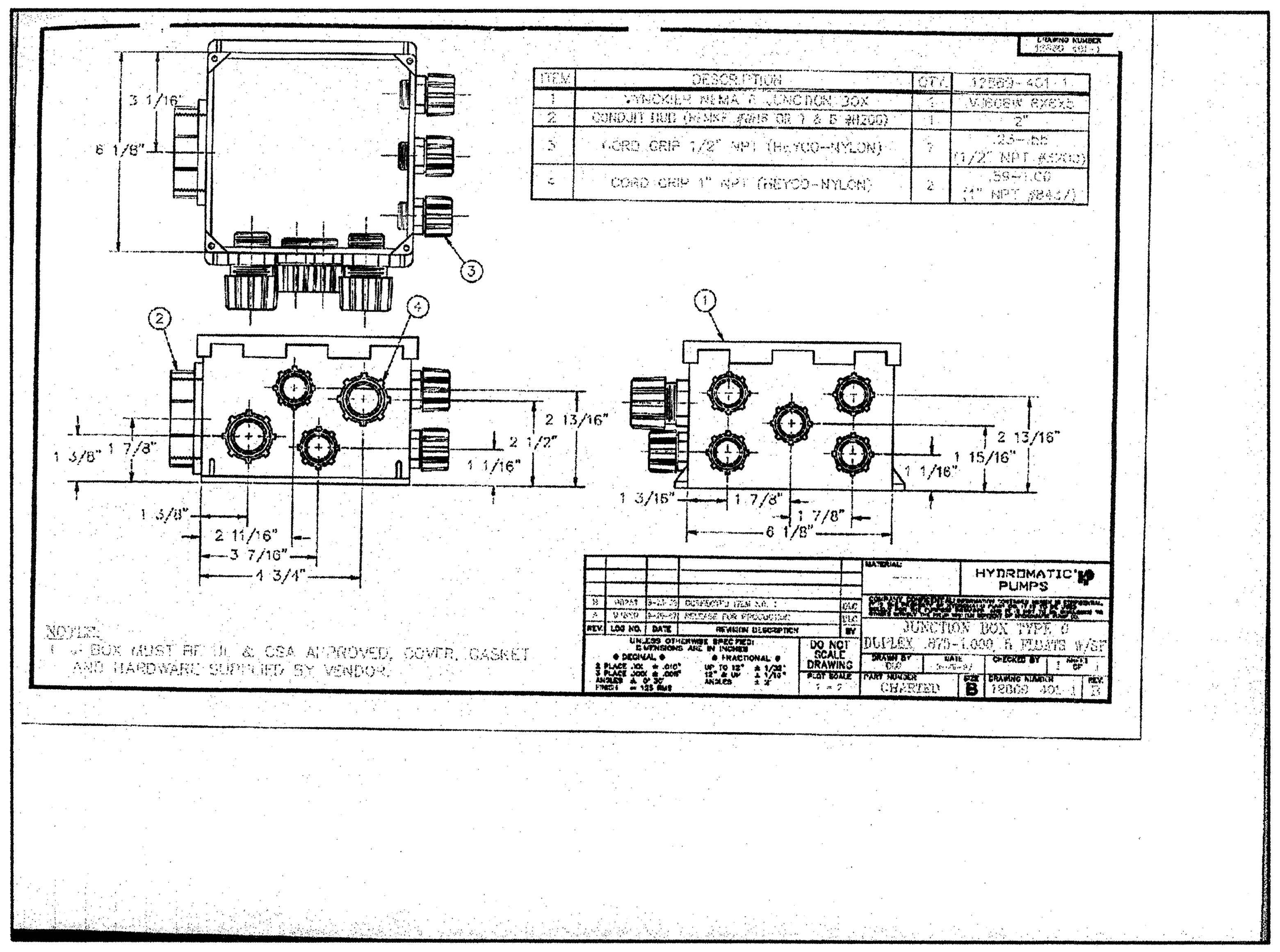
2

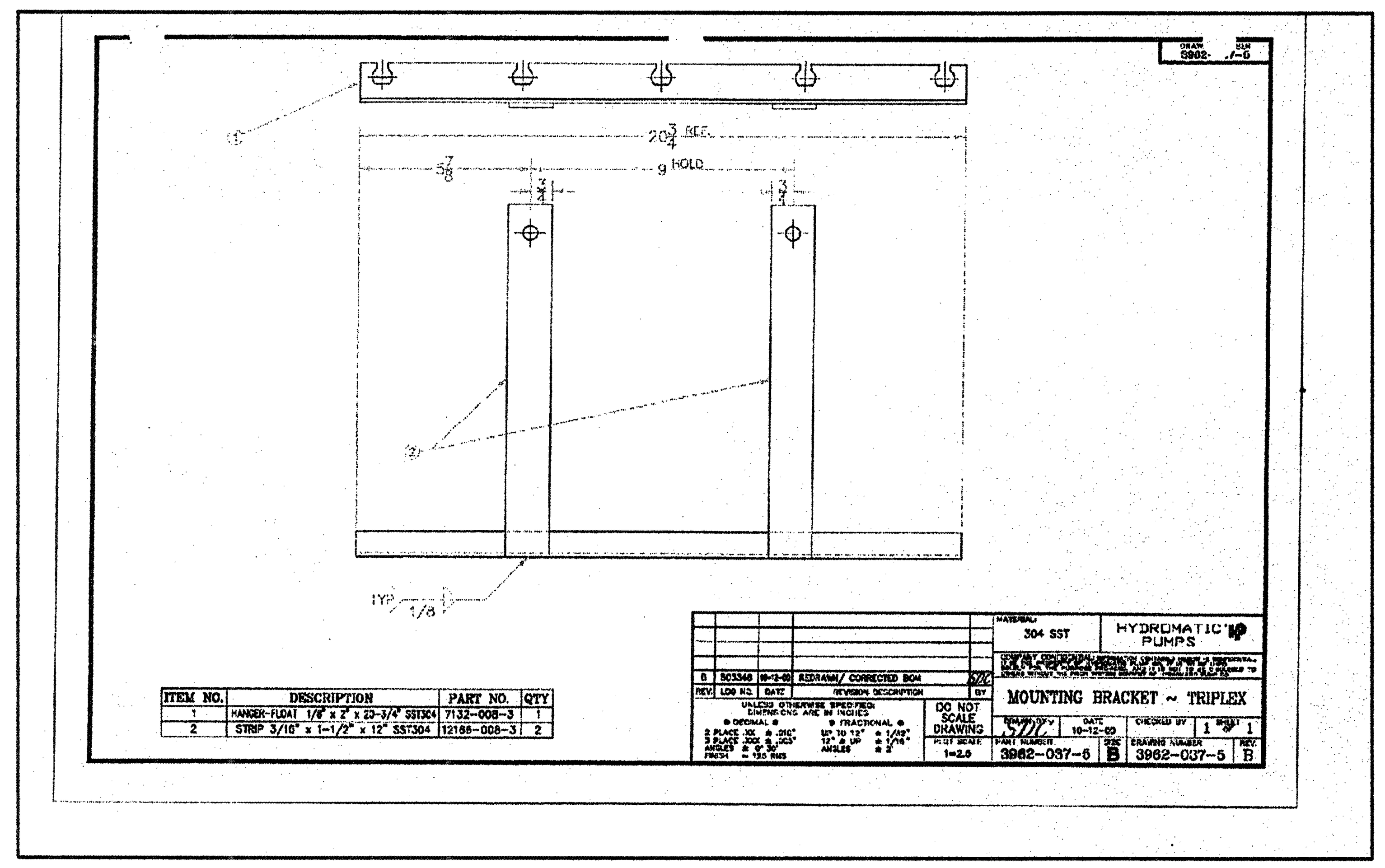


Record Drawing



SCANNED BY PLANNING





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

SURVEY INFORMATION
FIELD NOTES
NO. / BY / DATE

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
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ENGINEER'S SEAL
DAVID SOULE, NEW MEXICO, 14522, REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. / DATE / REMARKS / BY

DESIGN
DESIGNED BY: WCWJ — DATE: 2-28-05
DRAWN BY: WCWJ — DATE: 2-28-05
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG — JOB NO.: 2300
CHECKED BY: DS — DATE: 2-29-05

9-13-05

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
DETAIL SHEET
LIFT STATION DETAILS

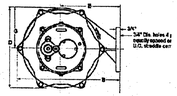
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB - 9 2006 DESIGN REVIEW COMMITTEE	APPROVED MAR - 7 2006 CITY ENGINEER			

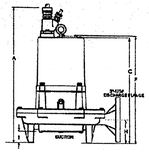
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
741982	B-10-Z	17	18

Company Name: T-P Pump & Pipe Company
Project Name:
Author Name: Tony Granger
Date Created: 3/30/2005

HYDROMATIC®
PENTAIR PUMP GROUP

MODEL: HPGFH300M2-4
Submersible Grinder Size - HPGFH





Units of Measurement: Inches

A	B	C	D	E	F	G	H	I
20.75	17.69	17.88	13.44	10.19	18.13	8.88	4.0	2.0

Pump Type: Submersible Grinder	Frequency: 60 HZ
Pump Size: HPGFH	Pump Weight Only: 95 lbs
HorsePower: 3	Frame Size: N/A
Phase: 1	Pump Flange: 2 inches
Voltage: 230 V	Pump Speed: 1750 RPM
Configuration: Submersible	Enclosure: Standard
Pit Arrangement: None Selected	System Type: None Selected
Panel Location: None Selected	
Tank Diameter: None Selected	Discharge Pipe Size: None Selected

Drawing Notes:

1. All Dimensions in inches unless otherwise noted.
2. Castingdimensions may vary +/- 1/8" (32 mm)
3. Not for Construction Purposes unless Factory Certified.
4. Information contained herein is confidential; it is the property of Pentair Pump Group; It is to be used solely for the purpose provided, and it is not to be disclosed to others for other purpose without the prior written consent of Pentair Pump Group.

Comments:

None

T-P Pump & Pipe Company
Villa De La Chamisa, Unit #2
Albuquerque, NM.

PUMP DATA SHEET 03/29/05
HYDROMATIC

Selection list: ---

Search Criteria:
Flow: 40 US gpm
Head: 41 ft
Tolerance: --- % of head

Fluid: Water
Temperature: 60 °F
SG: 1
Viscosity: 1.105 cP
Vapor pressure: 0.2563 psi a
Atm pressure: 14.7 psi a

NPSHa: --- ft

Advanced Criteria:
Preferred Operating Area: ---
Secondary Operating Point: ---
Max temperature: --- °F
Max suction pressure: --- psi g
Max sphere size: --- in
Max power: --- bhp
Max suction specific speed: --- (Nss)
Min trim: --- % of max diameter
Min head rise: --- % to shutoff

Curve Corrections: none

Catalog: Grinder Pumps 60Hz vers Dec 2003

Pump: HPGF/H/X-300
Type: GRINDER-SUBM
Synch speed: 1800 rpm
Speed: 1750 rpm
Dia: 7.75 in
Curve no.:

Specific Speeds
Ns: --- Nss: ---

Dimensions:
Suction: --- in Discharge: 2 in

Pump Limits:
Temperature: 140 °F
Pressure: --- psi g
Sphere size: --- in
Power: --- bhp

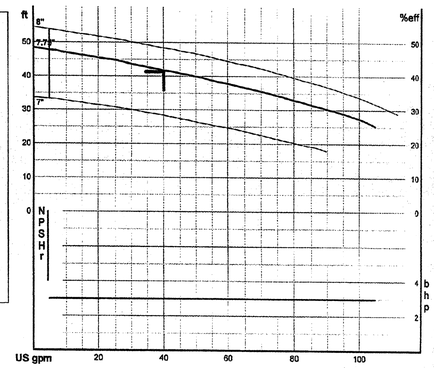
Motor: Consult vendor

---- Data Point ----
Flow: 40 US gpm
Head: 41.5 ft
Eff: --- %
Power: 2.99 bhp
NPSHr: --- ft

-- Design Curve --
Shutoff Head: 48.1 ft
Shutoff dP: 20.8 psi
Min Flow: 5 US gpm
BEP: --- % eff

NOL Pwr: 2.99 bhp
@ 5 US gpm

-- Max Curve --
Max Pwr: 2.99 bhp
@ 5 US gpm



H2Optimize vers 7.1a Lift Station

Company Name: T-P Pump & Pipe Company
Project Name:
Author Name: Tony Granger
Date Created: 3/30/2005

HYDROMATIC®
PENTAIR PUMP GROUP

ELECTRICAL DATA SHEET
FOR
MODEL: HPGFH300M2-4
Submersible Grinder Size - HPGFH

R.P.M.:	1750
MOTOR TYPE:	Enclosed, Oil Cooled Induction
MOTOR DESIGN NEMA TYPE:	B (3 Ø) L (1 Ø)
GENERAL INSULATION CLASS:	F
STATOR WINDING CLASS:	F
MAXIMUM STATOR TEMPERATURE:	155° C - 311° F
MOTOR PROTECTION:	Bi-Metallic, Temperature Sensitive Disc, Sized to open at 120° C and automatically reset @ 30-35° C Differential, One in Single Phase, Two in Three Phase.
VOLTAGE TOLERANCE:	± 10%

Horse Power:	3
Voltage:	230
Phase:	1
NEC Code:	G
SF:	1.2
FULL LOAD AMPS:	17.1
SF AMPS:	20
LCKD. RTR. AMPS:	79
RUN KW:	3.3
START KVA:	18.2
RUN KVA:	3.9

Company Name: T-P Pump & Pipe Company
Project Name:
Author Name: Tony Granger
Date Created: 3/30/2005

HYDROMATIC®
PENTAIR PUMP GROUP

TECHNICAL DATA SHEET
FOR
MODEL: HPGFH300M2-4
Submersible Grinder Size - HPGFH

Physical Data:

DISCHARGE SIZE (inches):	3" 125LB. FLANGE
IMPELLER TYPE (inches):	SEMI-OPEN 5 VANE
CABLE - STANDARD (feet):	30
PAINT:	Painted after assembly, DARK GREEN, enamel, one coat, air dried.

Temperature:

MAXIMUM LIQUID:	140° F
MAXIMUM STATOR:	311° F
OIL FLASH POINT:	380° F
HEAT SENSOR - OPEN:	257° F MAX./ 239° F MIN.
HEAT SENSOR - CLOSED:	194° F MAX./ 149° F MIN.

Technical Data:

POWER CORD TYPE:	STW / STW-A WATER RESISTANT 600V, 60° C
SENSOR CORD TYPE:	16-4 STW-A WATER RESISTANT 600V, 60° C, 10 AMPS
MOTOR HOUSING:	CAST IRON ASTM A-48 CLASS 30
CASING:	CAST IRON ASTM A-48 CLASS 30
IMPELLER:	RED BRASS #85-5-5-5 ASTM B584-836
CUTTERS - Stationary:	440C STAINLESS STEEL Hardened to 55 - 60 ROCKWELL C
CUTTERS - Upper (Axial):	440C STAINLESS STEEL Hardened to 55 - 60 ROCKWELL C
CUTTERS - Lower (Radial):	440C STAINLESS STEEL Hardened to 55 - 60 ROCKWELL C
MOTOR SHAFT:	416 STAINLESS STEEL
HARDWARE:	300 SERIES STAINLESS STEEL
"O" RINGS:	BUNA N
MECHANICAL SEALS - STANDARD:	Upper and Lower CARBON/CERAMIC, TYPE 21, BF1C1
MECHANICAL SEALS - OPTIONAL:	Lower Tungsten Carbide/Tungsten Carbide, TYPE 21, BD1D1
UPPER BEARING:	(RADIAL) SINGLE ROW - BALL - 6303
LOWER BEARING:	(THRUST) SINGLE ROW - BALL - 3307
MIN. B-10 BEARING LIFE:	50,000 Hrs

WIKA

Sealgauge® Diaphragm Gauges
Cast Iron Case
Process Industry Series • 316 SS Steel Wetted Parts • Type 43X.12

Pressure Gauges

Application
Industrial type suitable for environments where the fluid medium does not clog connection or corrode steel or 316 stainless steel. Built to withstand highly viscous and crystallizing medium. Diaphragm mechanically linked to movement, allowing use of a metallic diaphragm at low pressures. Eliminates system liquid filling and permits overpressurization up to five times the full scale range. Housing bolts limit maximum pressures to 600 PSI.

Sizes (All sizes not stocked)
4" and 6" (100 and 160 mm)

Accuracy
± 1.6% of span

Ranges (All ranges not stocked)
Vacuum / Compound to 30"HG / 0 / 200 PSI
Pressure from 10" H2O to 100" H2O (6" flange diameter)
Pressure from 5 PSI to 600 PSI (4" flange diameter)
or other equivalent units of pressure or vacuum

Working Range
Steady: Full scale value
Fluctuating: 0.9 x full scale value

Overpressure Safety
≤ 6 PSI 5 X full scale value
> 6 PSI to 30 PSI 3 X full scale value
> 30 PSI 5 X full scale value, max. 600 PSI

Operating Temperature
Ambient: -4°F to 140°F (-20°C to 60°C)
Media: max. 212°F (+100°C)

Temperature Error
Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.5% for every 18°F (10°C) rising or falling. Percentage of span.

Standard Features

Connection
316 stainless steel
Lower mount (LM)
1/2" NPT Female

Diaphragm Housing
Upper: cast iron, black finish
Lower: 316 stainless steel

Diaphragm Element
432.12: 316 stainless steel

Diaphragm Gasket
Buna-N

Movement
Material: copper alloy

Dial
White aluminum with black lettering

Pointer
Adjustable black aluminum

Case
Black iron with integral top housing and black steel twist-lock ring

Weather Protection
Weather resistant (NEMA 3 / IP 54) - dry case
Weather tight (NEMA 4X / IP 65) - liquid-filled case

Standard Scales
PSI, Inches of H2O

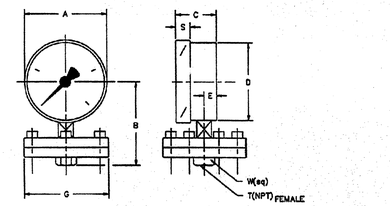
Window Gasket
Buna-N

Window
Flat instrument glass

ORDER OPTIONS (min. order may apply)
10 X overpressure safety, max. 600 PSI
Underpressure safe to -30 "Hg
Liquid filled version (4X3.12)
Glycerine, silicone, or fluorocarbon case filling
Special connections limited to wrench flat area
Open flange connections (300# ANSI maximum)
Safety glass window
Acrylic plastic window
Cleaned for oxygen service
Extended media temperature up to 392°F
DIN standards
Custom dial layout
Other pressure scales available
Alarm contact switches magnetic and inductive
Transmitters
Diaphragm, wetted parts lined for open flange connections such as: PTFE Foil, PFA or ECTFE powder coating, Hastelloy® B2 & C4, Monel®, Tantalum or Titanium
Only male threaded connections are available with special materials.

APM 43X.12
(APM 04.02)

Dimensions:



A* NOMINAL SIZE

TYPE	WEIGHT	KEY	A*	B	C	D	E	G	S	T	W
43X.12 4"	4.5 lbs.	mm	100	104	49.5	99	15.5	100	17.5	--	27
		in	4	4.08	1.95	3.90	0.61	3.94	0.69	1/2"	1.06
43X.12 6"	6.5 lbs.	mm	160	134	49.5	159	15.5	100	17.5	--	27
		in	6	5.28	1.95	6.25	0.61	3.94	0.69	1/2"	1.06

NOTE: For ranges 4 PSI and lower, G dimension changes to 160 mm (6") and weight increases by 2.8 lbs.

Monel® is a registered trademark of the INCO family of companies.

Hastelloy® is a registered trademark of the Cabot family of companies.

THE MEASURE OF
Total Performance™

Ordering Information:
State complete part number (if available) / type number / size / range / connection size and location / options required.

Specifications given in this price list represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice.

05/01

WIKA
WIKA Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, Georgia 30043-5868
Tel: 770-513-8200 Fax: 770-338-5118
http://www.wika.com e-mail: info@wika.com

Record Drawing

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
Albuquerque Control Survey Monument "2-B11"
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone
Y = 1,526,729.35
X = 362,751.42
Ground to grid factor = 0.9996648
Delta Alpha = 00° 15' 53"
Elevation = 5388.283 (SLD 1929)

AS BUILT INFORMATION
CONTRACTOR S AND S BROS. DATE
STAKED BY
INSPECTOR'S INITIALS DATE 11/06
FIELD VERIFICATION BY DATE
VERIFICATION BY
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		DESIGN	
		REVISIONS	

DESIGNED BY: WCWJ DATE: 2-28-05
DRAWN BY: WCWJ DATE: 2-28-05
DRAWN NAME: 2300_DRC-PHASEII-5-10-04X.DWG JOB NO.: 2300
CHECKED BY: DS DATE: 2-29-05

9-13-05
Rio Grande Engineering
1000 CENTRAL AVENUE, SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 975-0066

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA DE LA CHAMISA UNIT 2**
DETAIL SHEET
LIFT STATION DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
SEP - 9 2006	APPROVED MAR - 7 2006 CITY ENGINEER			

CITY PROJECT NO. 741982 | ZONE MAP NO. B-10-Z | SHEET 18 OF 18