

CITY OF ALBUQUERQUE



August 10, 2005

Mr. David Soule, PE
RIO GRANDE ENGINEERING
1606 Central Ave. SE
Suite 201
Albuquerque, NM 87106

RE: VILLA DE LA CHAMISA SUBDIVISION, PHASE 1 (B-10/D9)
Engineers Certification for Release of Financial Guaranty
Engineers Stamp dated 05/07/2004
Engineers Certification dated 07/14/2005

Dear David:

P.O. Box 1293 Based upon the information provided in your Engineer's Certification Submittal dated
08/10/2005, the above referenced plan is adequate to satisfy the Grading and Drainage
Certification for Release of Financial Guaranty.

Albuquerque If you have any questions, you can contact me at 924-3982.

New Mexico 87103

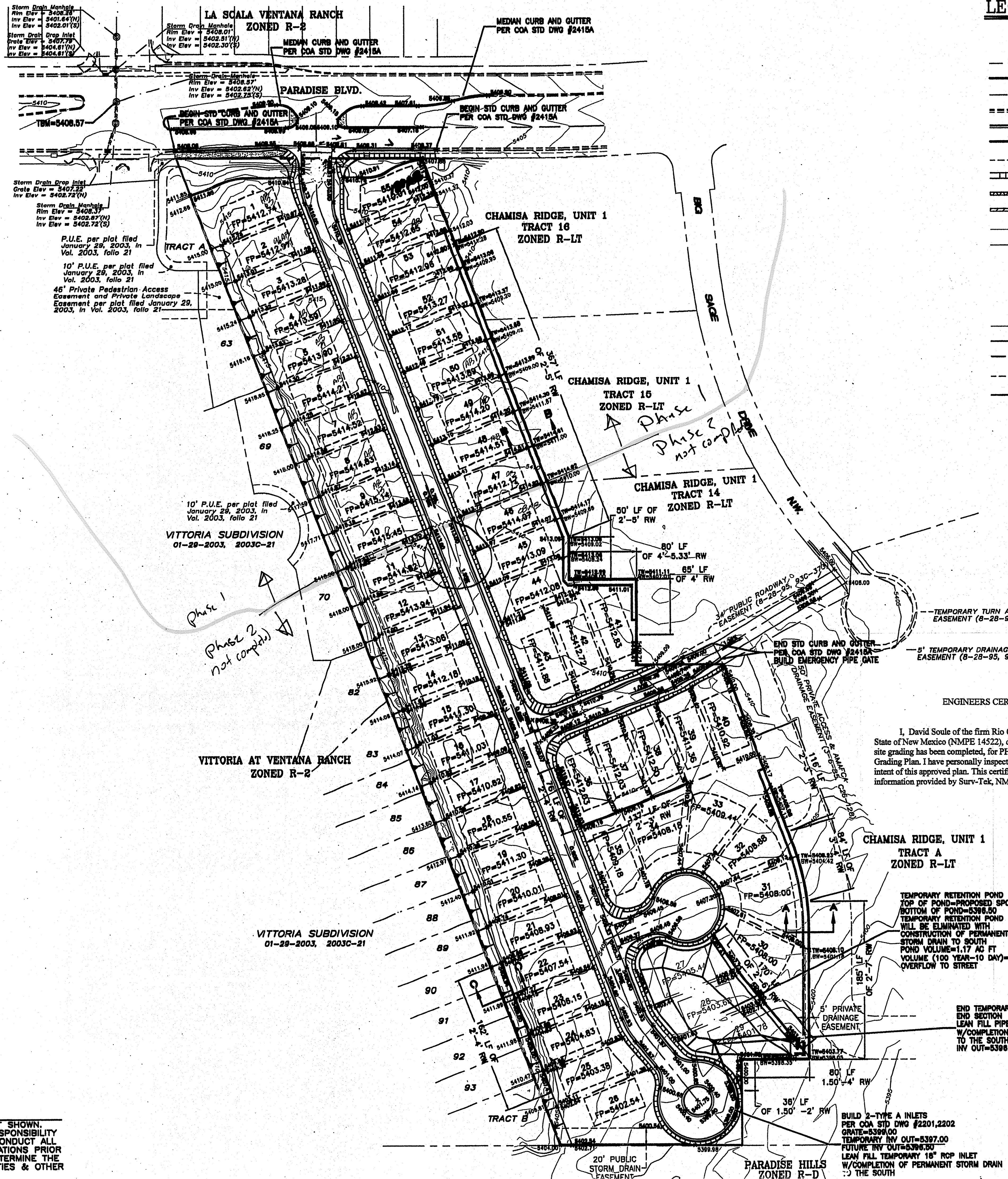
www.abq.gov

Sincerely,

Arlene V. Portillo

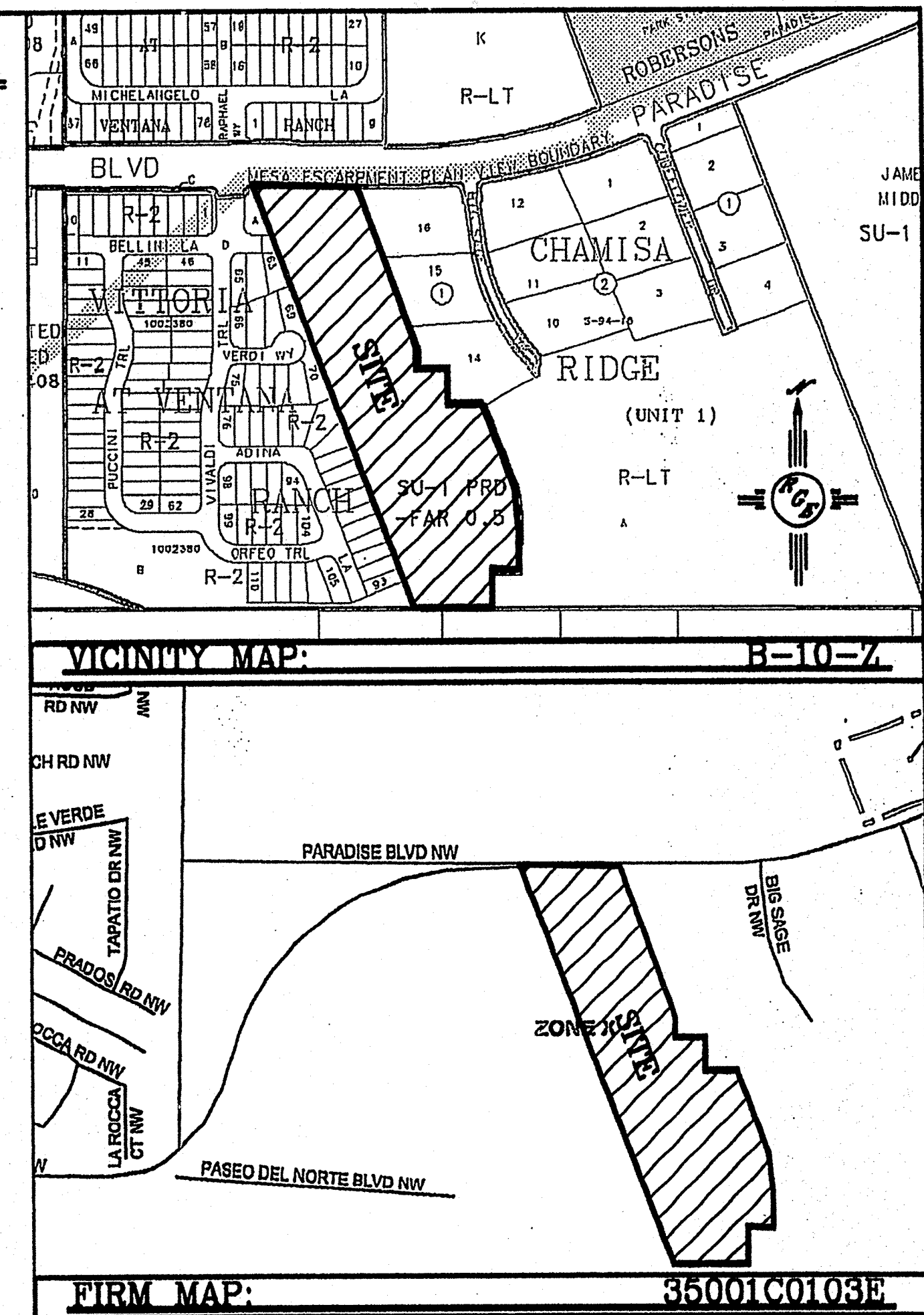
Arlene V. Portillo
Plan Checker, Planning Dept.- Hydrology
Development and Building Services

C: Marilyn Maldonado, COA# 741981
File



LEGEND

- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER LINE
- EXISTING FENCE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- PROPOSED PERIMETER WALL
- PROPOSED RETAINING WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FLOW ARROW
- SLOPE TIE
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- PROPOSED TEMPORARY POND



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.

ENGINEERS CERTIFICATION OF SUBSTANTIAL COMPLIANCE FOR GRADING

I, David Soule of the firm Rio Grande Engineering, a Registered Professional Engineer in the State of New Mexico (NMPE 14522), do hereby certify, to the best of my knowledge and belief, that the site grading has been completed, for PHASE 1 ONLY, and is in substantial compliance to the approved Grading Plan. I have personally inspected the site and certify the site was graded to meet the design intent of this approved plan. This certification is based upon site inspection and as-built survey information provided by Surv-Tek, NMPS 9705

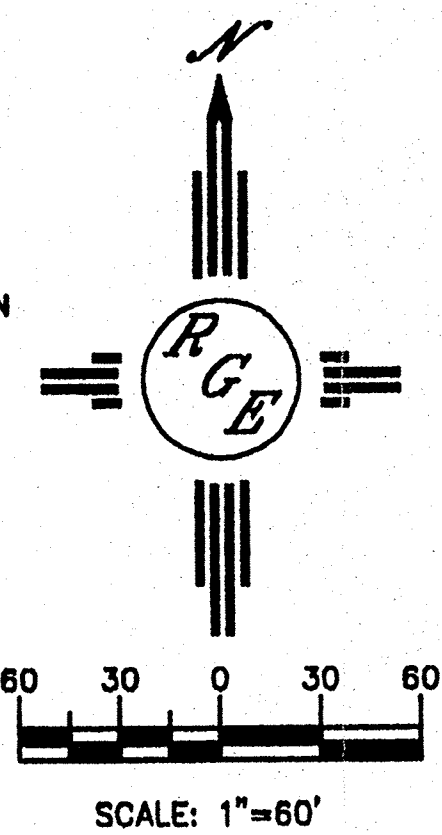


CHAMISA RIDGE, UNIT 1
TRACT A
ZONED R-LT

TEMPORARY RETENTION POND
TOP OF POND=PROPOSED SPOT ELEVATIONS
BOTTOM OF POND=5398.50
TEMPORARY RETENTION POND
WILL BE ELIMINATED WITH
CONSTRUCTION OF PERMANENT
STORM DRAIN TO SOUTH
POND VOLUME=1.17 AC FT
OVERFLOW TO STREET

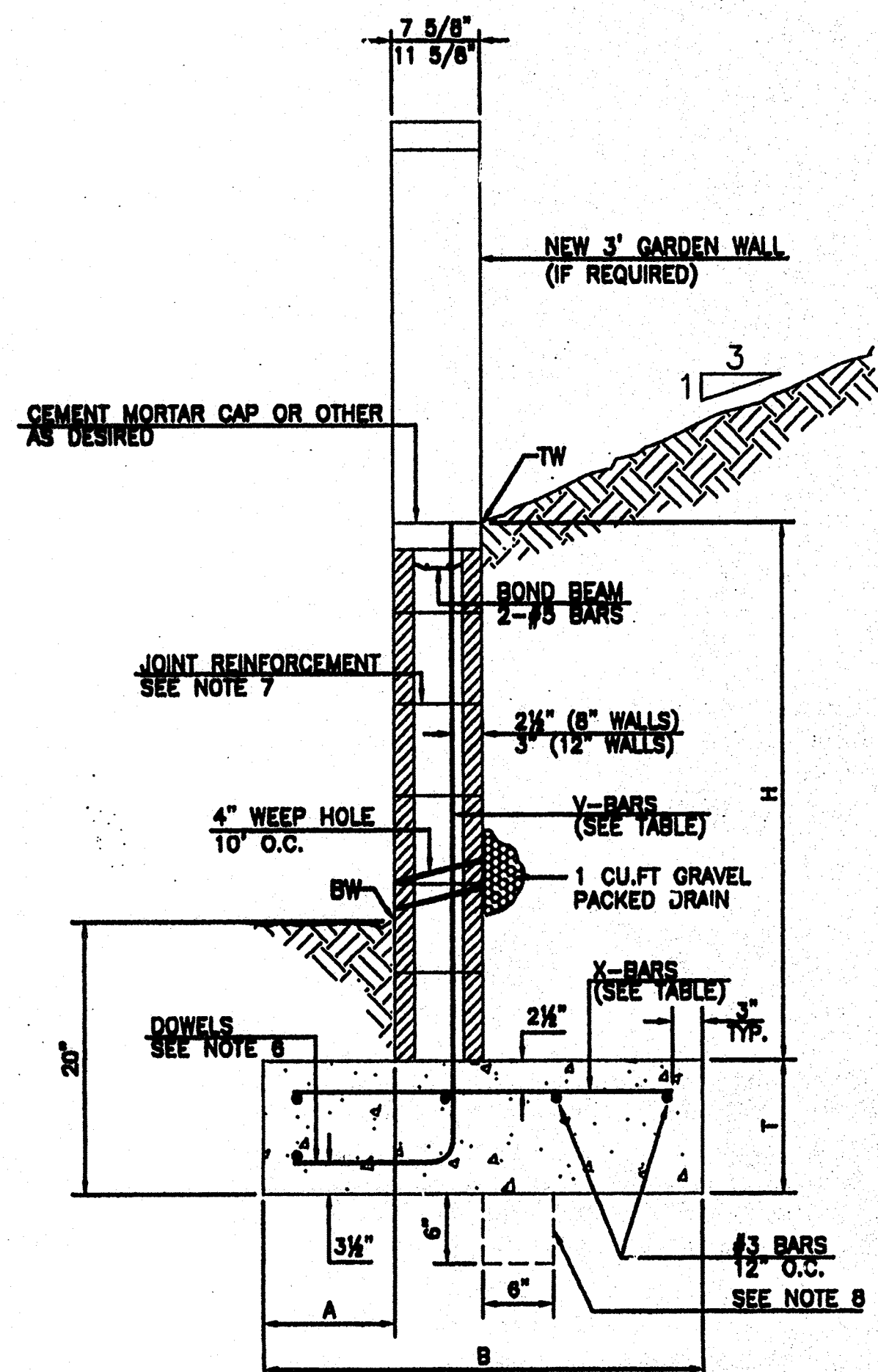
END TEMPORARY 18" RCP W/FLARED
END SECTION
LEAN FILL PIPE AND ABANDON PIPE
W/COMPLETION OF PERMANENT STORM DRAIN
TO THE SOUTH
INV OUT=5398.50

BUILD 2-TYPE A INLETS
PER COA STD DWG #2201,2202
GRATE=5398.00
TEMPORARY INV OUT=5397.00
FUTURE INV OUT=5398.00
LEAN FILL TEMPORARY 18" RCP INLET
W/COMPLETION OF PERMANENT STORM DRAIN
TO THE SOUTH



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.

ROUGH GRADING APPROVAL		DATE
ENGINEER'S SEAL	VILLA DE LA CHAMISA	DRAWN BY WCKU
DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522	GRADING AND DRAINAGE PLAN	DATE 4-26-04
	Rio Grande Engineering 3300 COMANCHE ROAD NE ALBUQUERQUE, NM 87107 (505) 872-0888	2300-GR-4-21-04X
		SHEET # 4 OF 11
		JOB # 2300



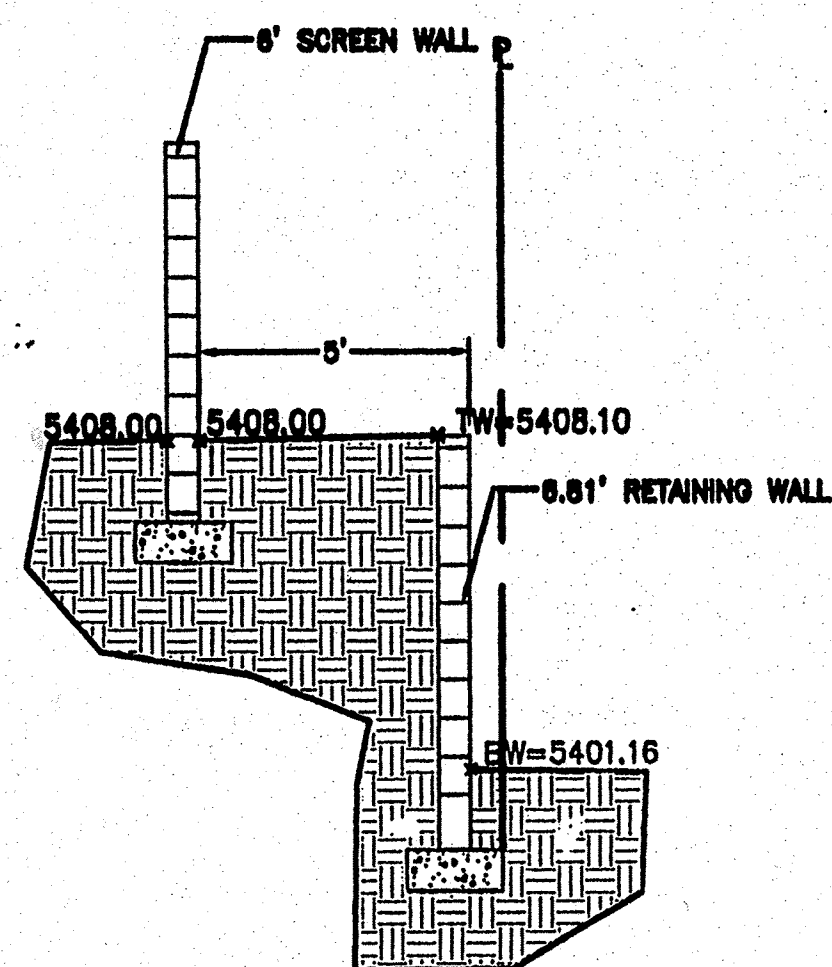
RETAINING WALL DETAIL
NTS

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.

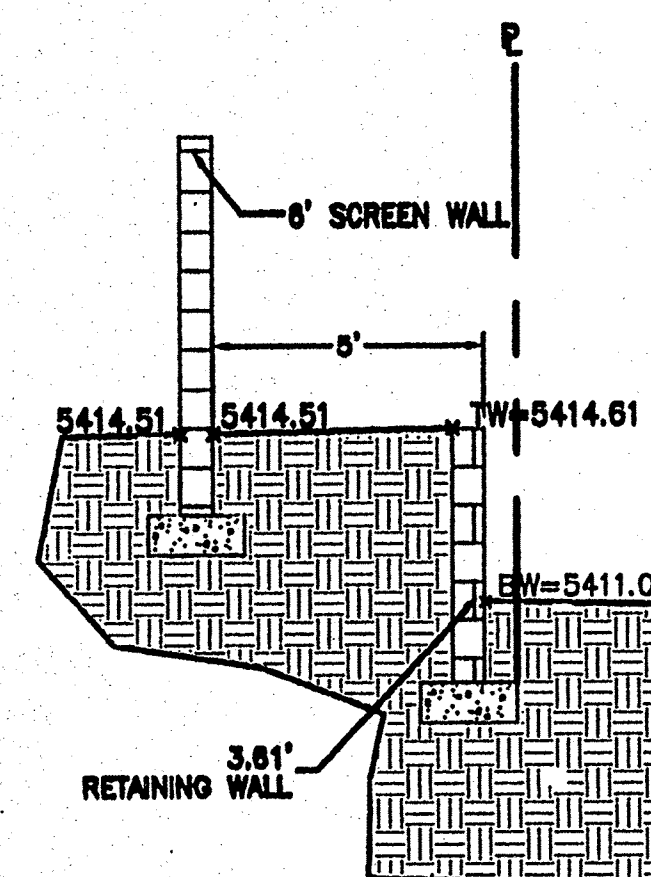
12 INCH REINFORCED CONCRETE MASONRY WALL					
H	A	B	T	V-BARS	X-BARS
ft.-in.	in.	ft.-in.	in.		
5'-4"	14"	3'-8"	10"	#4 @24" O.C.	#3 @24" O.C.
6'-0"	15"	4'-2"	12"	#4 @16" O.C.	#4 @30" O.C.
6'-8"	16"	4'-6"	12"	#6 @24" O.C.	#4 @22" O.C.
7'-4"	18"	4'-10"	12"	#5 @16" O.C.	#5 @26" O.C.
8'-0"	20"	5'-4"	12"	#7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

GENERAL NOTES:

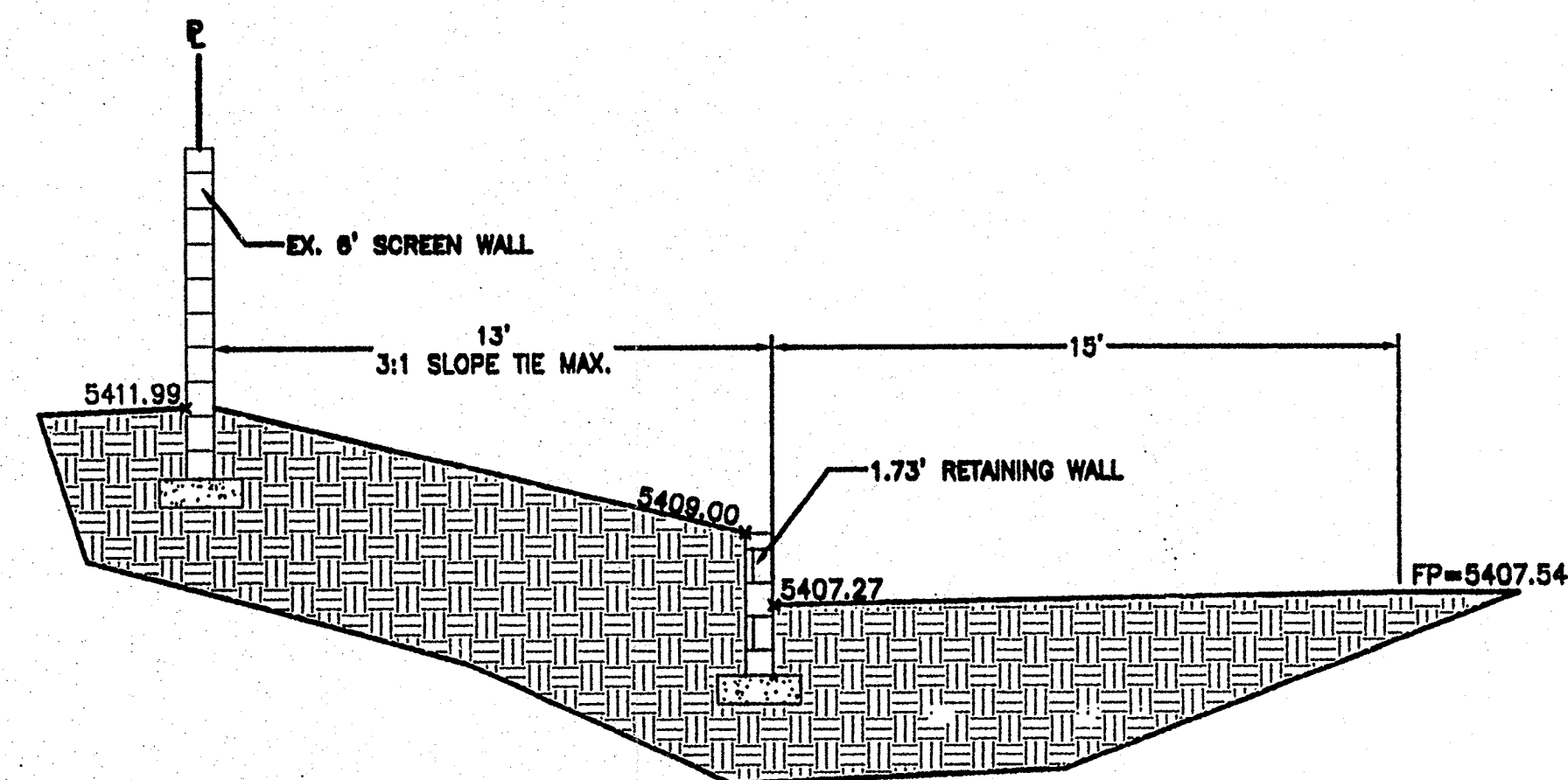
- ALL CONCRETE IS TO BE 4000 PSI @ 28 DAYS.
- MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM D 1557 FOR A DEPTH OF 12" MOISTURE CONTENT IS TO BE $\pm 2.0\%$.
- BACKFILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
- ALL BARS ARE TO BE GRADE 60, ASTM 613.
- TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.
- 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.
- JOINT REINFORCEMENT CONSISTING OF 9GA. LONGITUDINAL WIRE AND 3/16" CROSS RODS SHALL BE PROVIDED AT 8' CENTERS VERTICALLY.
- PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
- USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.



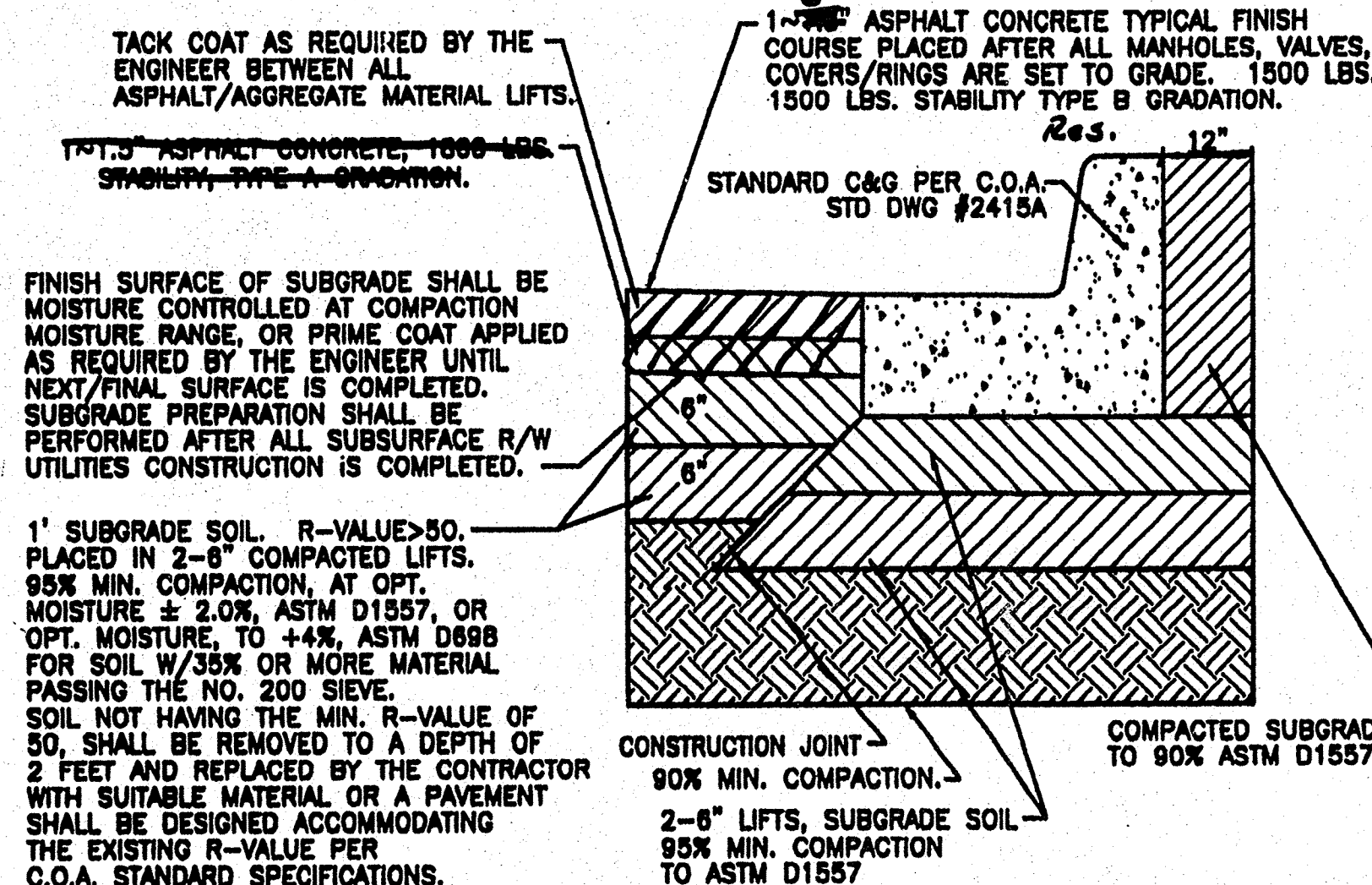
SECTION A-A
NTS



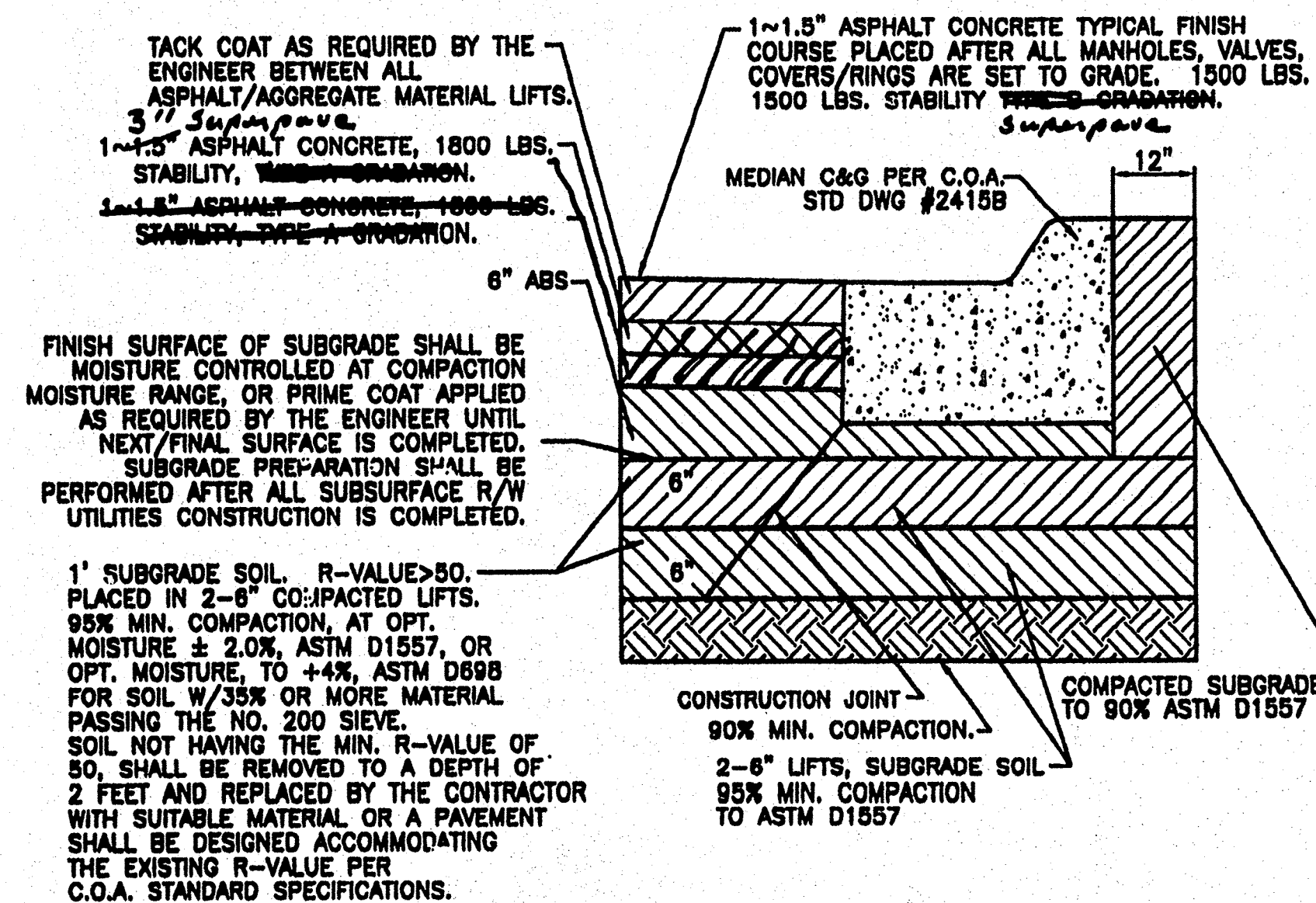
SECTION B-B
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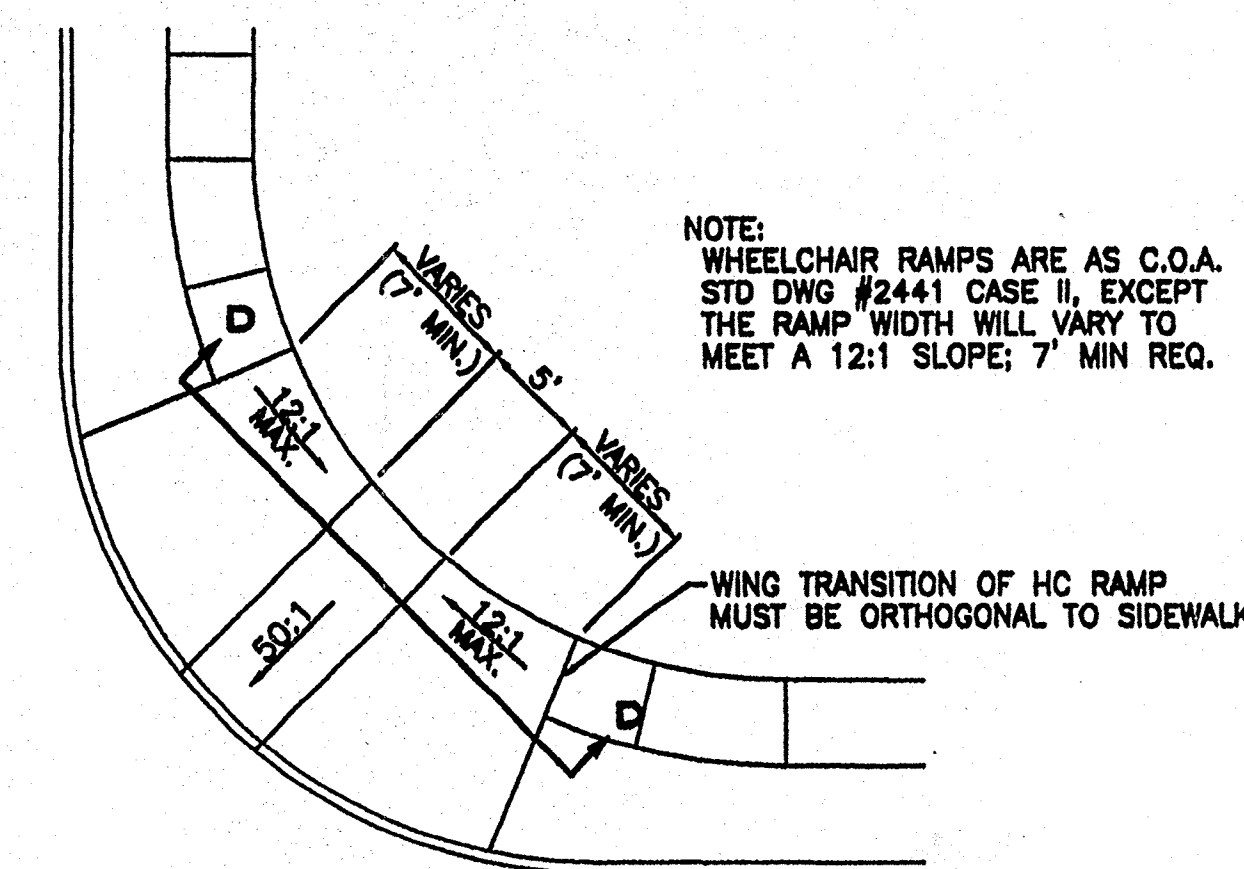
SECTION C-C
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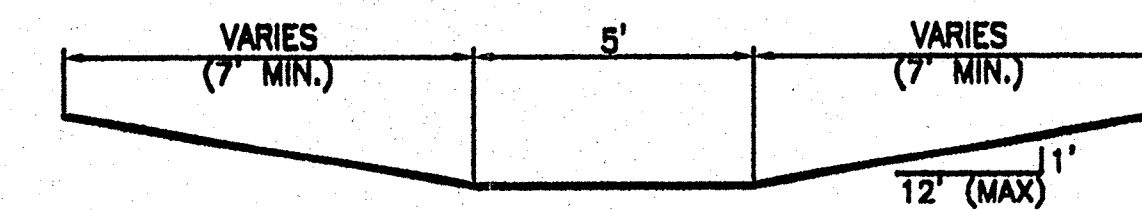
RESIDENTIAL PAVING SECTION (STANDARD CURB)
NTS



PARADISE PAVING SECTION (MEDIAN CURB)
NTS



WHEELCHAIR RAMP DETAIL (TYP.)
NTS



SECTION D-D
NTS

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	GRADING AND DRAINAGE DETAILS	DATE 4-26-04
 Rio Grande Engineering 3300 COMANCHE ROAD NE ALBUQUERQUE, NM 87107 (505) 872-0988	2300-GRS-4-21-04X	
	SHEET # 5 OF 10	
DAVID SOULE P.E. #14522	JOB # 2300	