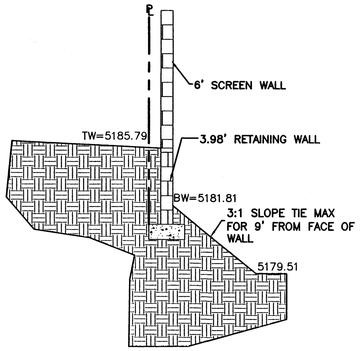


SECTION A-A
NTS

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.

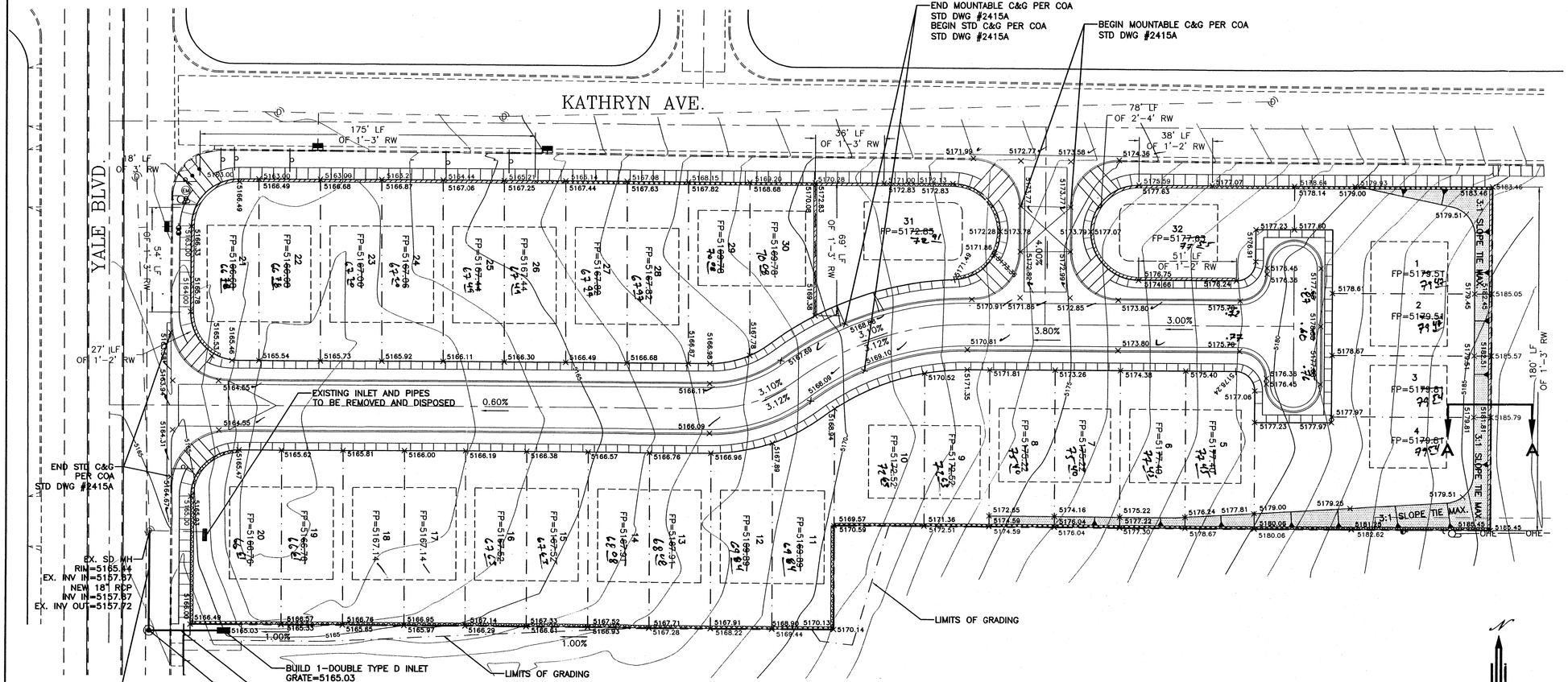
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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.

I David Soule, NMPE 14522 , of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 2/06/06. The record information edited on the original design document has been obtained by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The certification is submitted in support of a request for Release of Financial Guarantee. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER 2/21/07



CAUTION:

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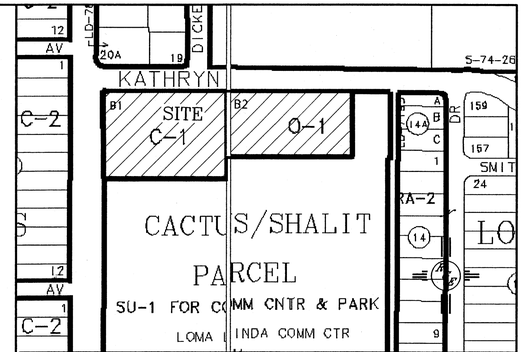
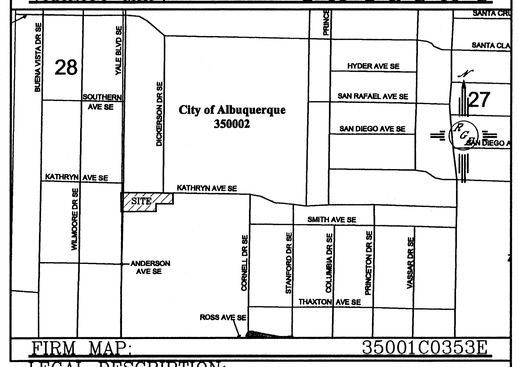
SCALE: 1"=30'



VICINITY MAP: L-15-Z & L-16-Z



FIRM MAP: 35001C0353E

LEGAL DESCRIPTION:

TRACT B-1, CACTUS PARK

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL CURB AND GUTTER TO BE MOUNTABLE PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.

3. ALL DRIVEPADS SHALL BE BUILT WHERE SHOWN.

LEGEND

- EXISTING STORM SEWER INLET
- EX. 36" RCP — EXISTING 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
- 1 × 5048.25 — PROPOSED SPOT ELEVATION
- × 5048.25 — EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- 3:1 SLOPE TIE
- LIMITS OF OFFSITE GRADING

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ROUGH GRADING APPROVAL DATE

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

DAVID SOULE P.E. #14522

UNIVERSITY CROSSING

GRADING AND DRAINAGE PLAN

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

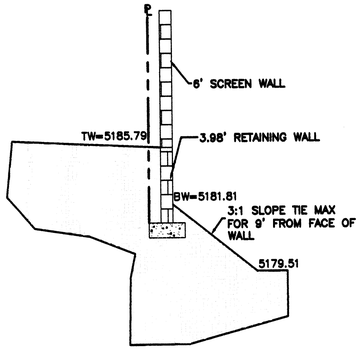
DRAWN BY WCWJ

DATE 2-02-06

2537-GRD-11-16-05X

SHEET # 1 OF 2

JOB # 2537



SECTION A-A
NTS

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.

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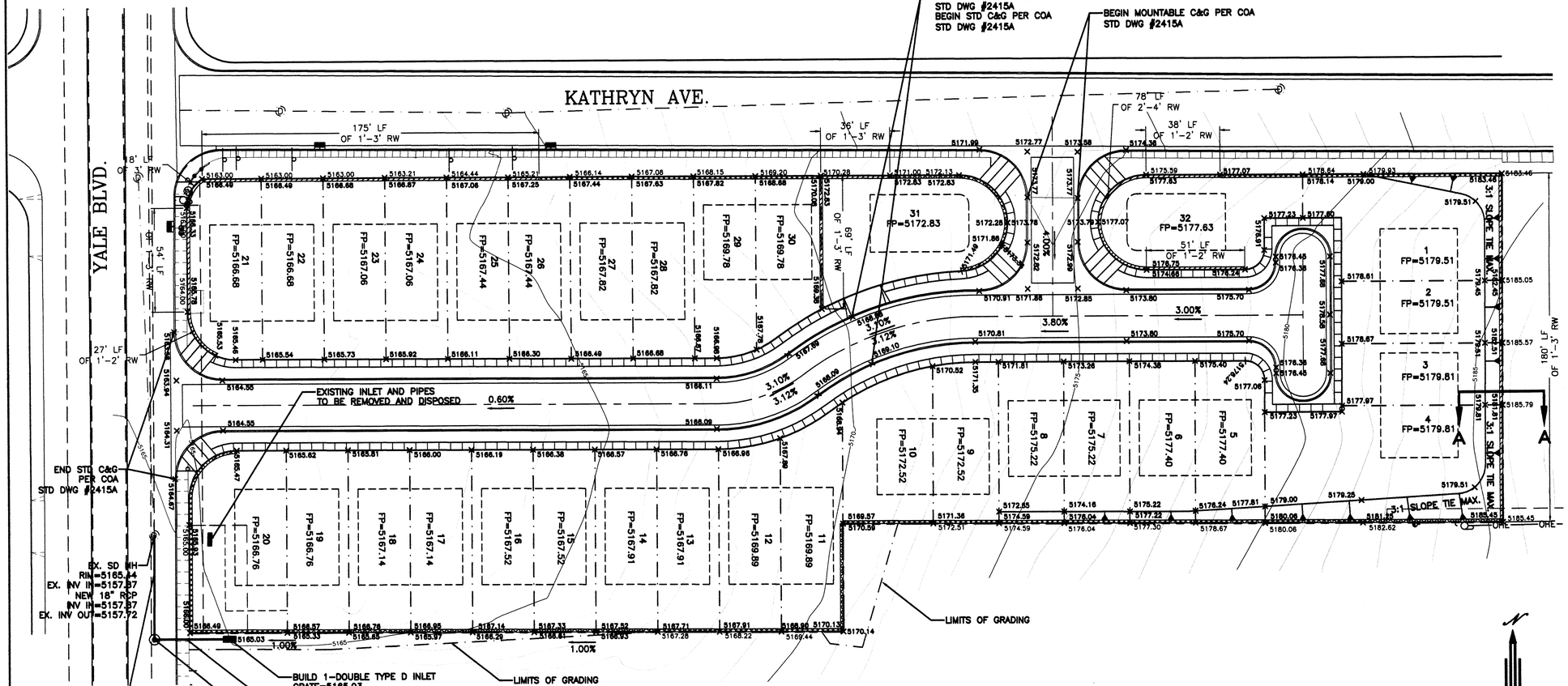

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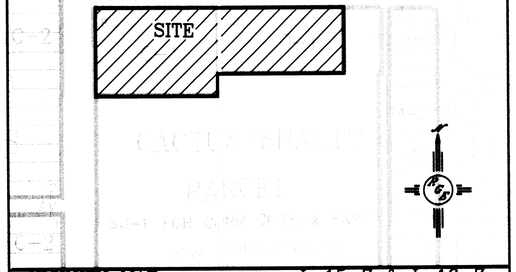
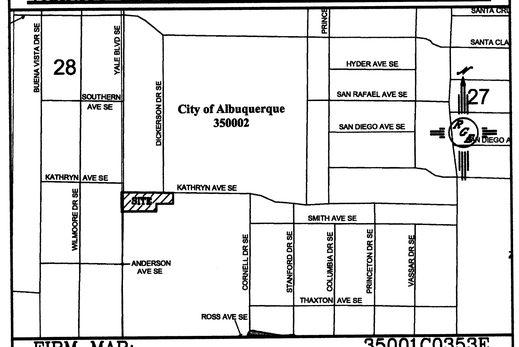


VICINITY MAP: L-15-Z & L-16-Z



FIRM MAP: 35001C0353E

LEGAL DESCRIPTION:

TRACT B-1, CACTUS PARK

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL CURB AND GUTTER TO BE MOUNTABLE PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.

3. ALL DRIVEPADS SHALL BE BUILT WHERE SHOWN.

LEGEND

- EXISTING STORM SEWER INLET
- EX. 36" RCP — EXISTING STORM SEWER LINE
- EXISTING FENCE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- PROPOSED PERIMETER WALL
- PROPOSED RETAINING WALL
- EXISTING CONTOUR
- 5410 — EXISTING INDEX CONTOUR
- FLOW ARROW
- 5048.25 PROPOSED SPOT ELEVATION
- 5048.25 EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- 3:1 SLOPE TIE
- LIMITS OF OFFSITE GRADING

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HYDROLOGY SECTION

ROUGH GRADING APPROVAL DATE

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

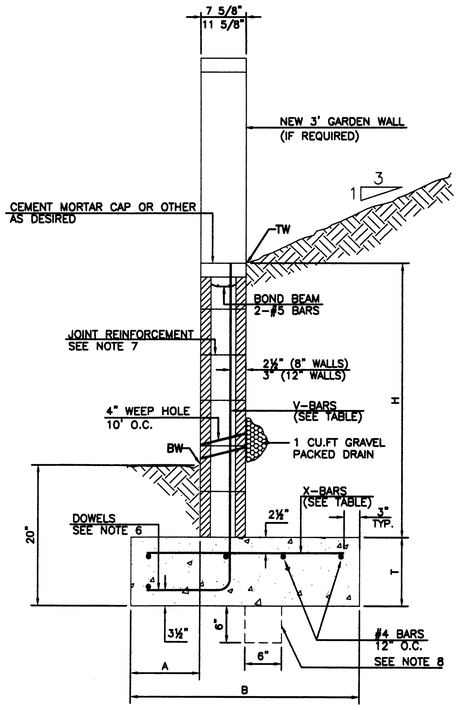
DAVID SOULE P.E. #14522

UNIVERSITY CROSSING

GRADING AND DRAINAGE PLAN

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

DRAWN BY WCWJ
DATE 2-02-06
2537-GRD-11-16-05X
SHEET # 1 OF 2
JOB # 2537



RETAINING WALL DETAIL
NTS

8 INCH REINFORCED CONCRETE MASONRY WALL

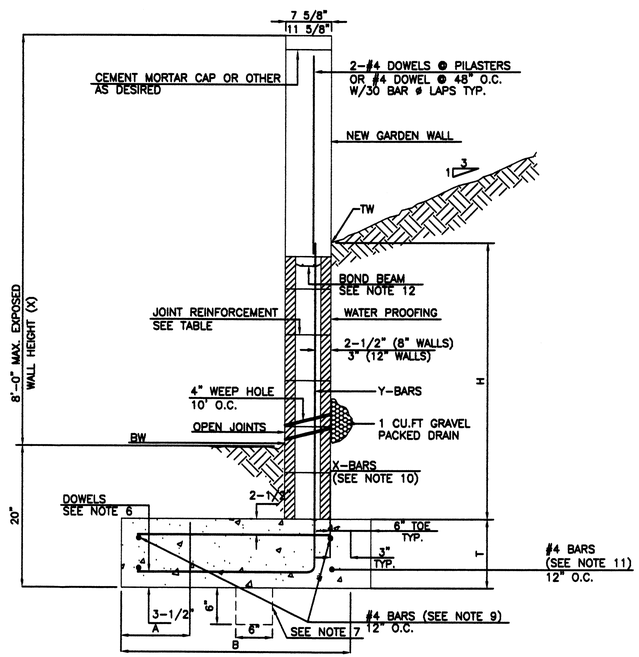
H	A	B	T	V-BARS	X-BARS
ft.-in.	in.	ft.-in.	in.		
3'-4"	8"	2'-6"	10"	#4 @32" O.C.	#4 @32" O.C.
4'-0"	10"	2'-10"	10"	#4 @32" O.C.	#4 @32" O.C.
4'-8"	12"	3'-6"	12"	#4 @24" O.C.	#4 @24" O.C.
5'-4"	14"	3'-10"	12"	#4 @16" O.C.	#4 @16" O.C.
6'-0"	16"	4'-4"	12"	#4 @16" O.C.	#4 @16" O.C.
6'-8"	18"	4'-10"	14"	#5 @16" O.C.	#5 @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.	#4 @24" O.C.
6'-0"	15"	4'-2"	12"	#4 @16" O.C.	#4 @16" O.C.
6'-8"	16"	4'-6"	12"	#5 @24" O.C.	#5 @24" O.C.
7'-4"	18"	4'-10"	12"	#6 @16" O.C.	#6 @16" O.C.
8'-0"	20"	5'-4"	12"	#7 @24" O.C.	#7 @24" 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'.



L-FOOTING RETAINING WALL DETAIL
NTS-FOR USE ADJACENT TO ALL ROW

8 INCH REINFORCED CONCRETE MASONRY WALL

H	X	A	B	T	Y-BARS	X-BARS
ft.-in.	ft.-in.	in.	ft.-in.	in.		
2'-0"	1'-1"	8"	2'-4"	12"	#4 @32" O.C.	#4 @32" O.C.
2'-8"	1'-9"	8"	2'-4"	12"	#4 @32" O.C.	#4 @32" O.C.
3'-4"	2'-5"	8"	2'-4"	12"	#4 @32" O.C.	#4 @32" O.C.

GENERAL NOTES:

1. ALL CONCRETE IS TO BE 4000 PSI @ 28 DAYS.
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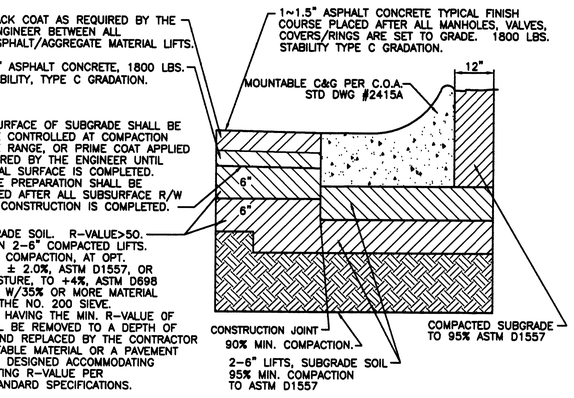
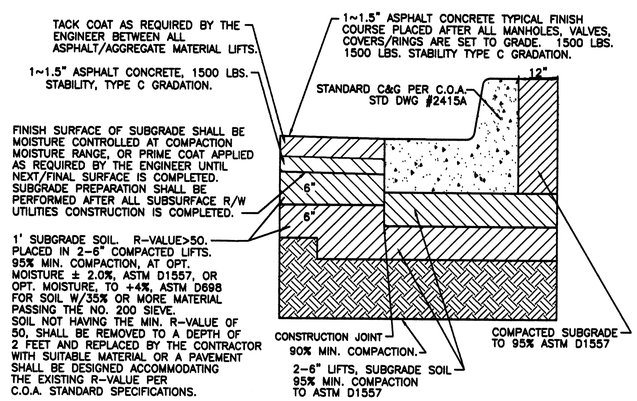
3. BACK FILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
4. ALL BARS ARE TO BE GRADE 60, ASTM 615.
5. TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.
6. DOWELS SHALL BE AT LEAST EQUAL IN SIZE AND SPACING TO Y-BARS, SHALL PROJECT A MINIMUM OF 30 BAR DIA. INTO THE FILLED BLOCK CORES, AND SHALL EXTEND TO THE TOE OF THE FOOTING.
7. PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
8. USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.
9. #4 BARS TO BE USED ON WALLS EXCEEDING 2'-8" HEIGHT
10. X BARS TO BE USED ON WALLS EXCEEDING 2'-8" HEIGHT
11. #4 BARS TO BE USED ON WALLS SMALLER THAN 3'-4"
12. BOND BEAM, 1-#4 BARS FOR WALLS UNDER 3'-4". 2-#4 BARS FOR WALLS UNDER 5'-4", 2-#5 BARS FOR WALLS OVER 5'-4".
13. TW - DESIGNATES FINISHED GRADE @ TOP OF RETAINING WALL
BW - DESIGNATES FINISHED GRADE @ BOTTOM OF WALL.
BOOTOM OF FOOTING IS 20" BELOW THE DESIGNATED BW ELEVATION.



RESIDENTIAL PAVING SECTION (MOUNTABLE CURB)
NTS



RESIDENTIAL PAVING SECTION (STANDARD CURB)
NTS

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

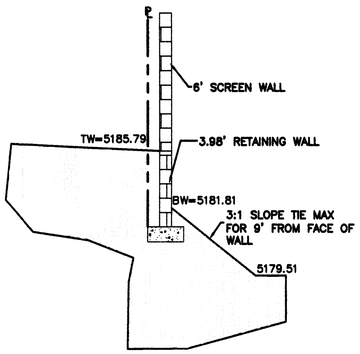
DAVID SOULE
P.E. #14522

UNIVERSITY CROSSING

GRADING AND DRAINAGE DETAILS

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

BY WCWJ
DATE 12-30-05
2537-000-11-16-05X
SHEET # 2 OF 2
JOB # 2537



SECTION A-A
NTS

EROSION CONTROL NOTES:

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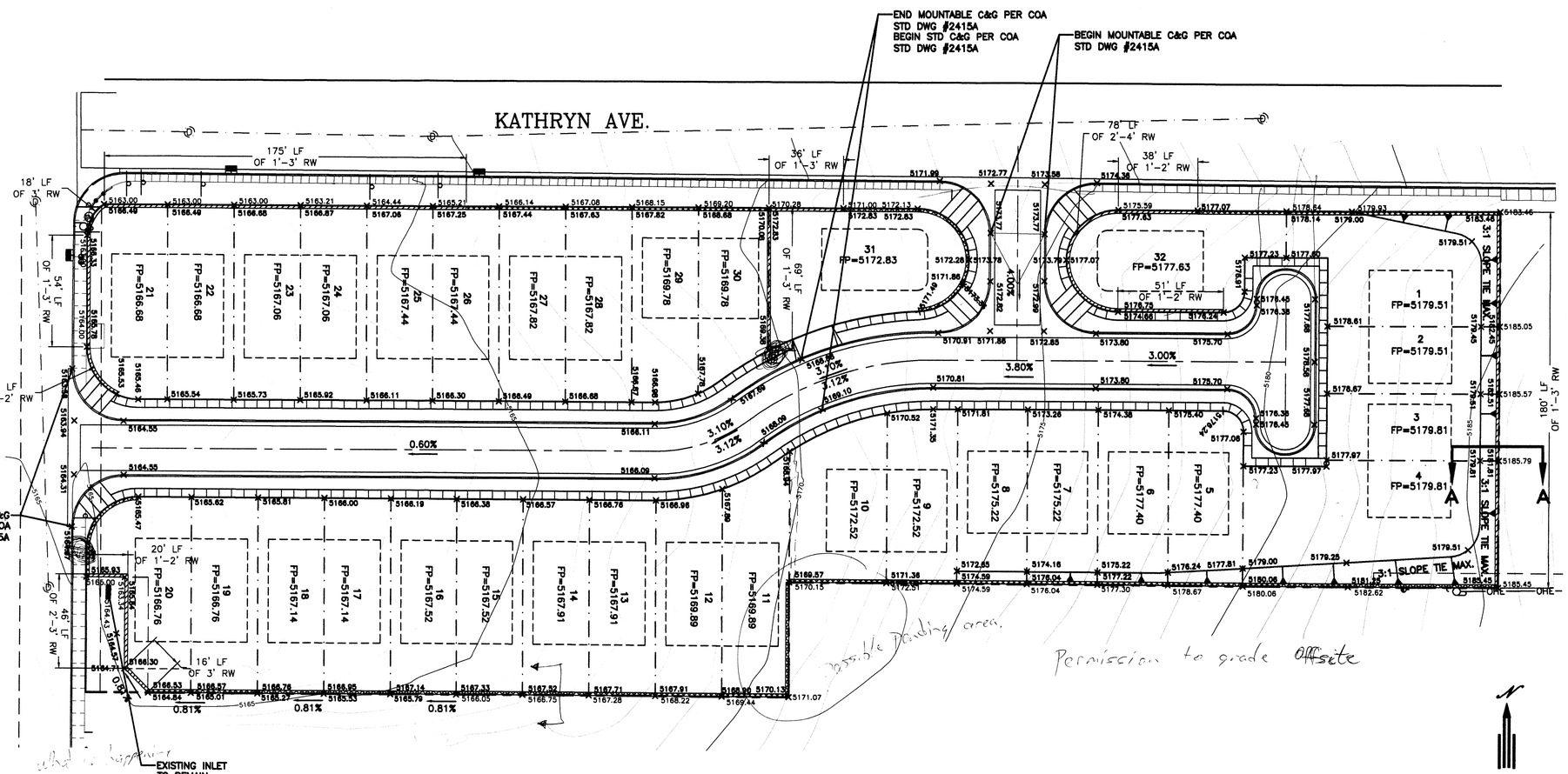

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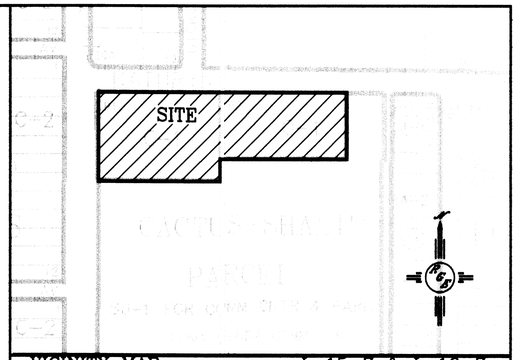
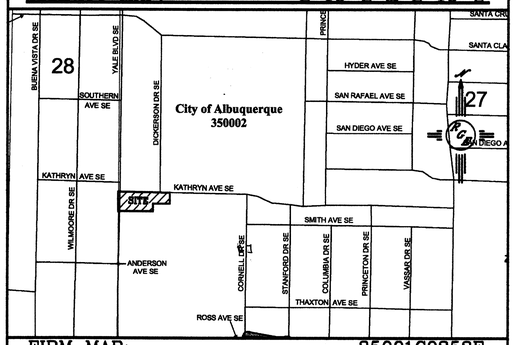


VICINITY MAP: L-15-Z & L-16-Z



FIRM MAP: 35001C0353E

LEGAL DESCRIPTION:

TRACT B-1, CACTUS PARK

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL CURB AND GUTTER TO BE MOUNTABLE PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.

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LEGEND

- EXISTING STORM SEWER INLET
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- PROPOSED CURB & GUTTER
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- 5048.25 — PROPOSED SPOT ELEVATION
- 5048.25 — EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- 3:1 SLOPE TIE

SCALE: 1"=30'

RECEIVED
JAN 12 2006
HYDROLOGY SECTION

ROUGH GRADING APPROVAL DATE

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

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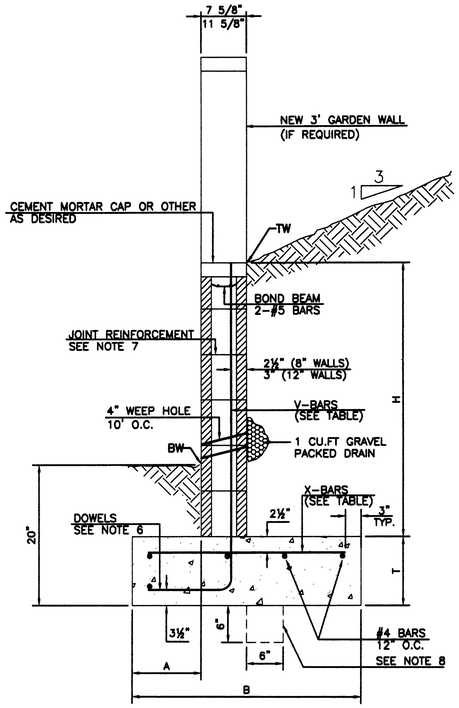

RETAINING WALL DETAIL

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'-6"	10"	#4 @32" O.C.	#4 @32" O.C.
4'-0"	10"	2'-10"	10"	#4 @32" O.C.	#4 @32" O.C.
4'-8"	12"	3'-6"	12"	#4 @24" O.C.	#4 @24" O.C.
5'-4"	14"	3'-10"	12"	#4 @16" O.C.	#4 @16" O.C.
6'-0"	16"	4'-4"	12"	#4 @16" O.C.	#4 @16" O.C.
6'-8"	18"	4'-10"	14"	#5 @16" O.C.	#5 @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.	#4 @24" O.C.
6'-0"	15"	4'-2"	12"	#4 @16" O.C.	#4 @16" O.C.
6'-8"	16"	4'-6"	12"	#5 @24" O.C.	#5 @24" O.C.
7'-4"	18"	4'-10"	12"	#6 @16" O.C.	#6 @16" O.C.
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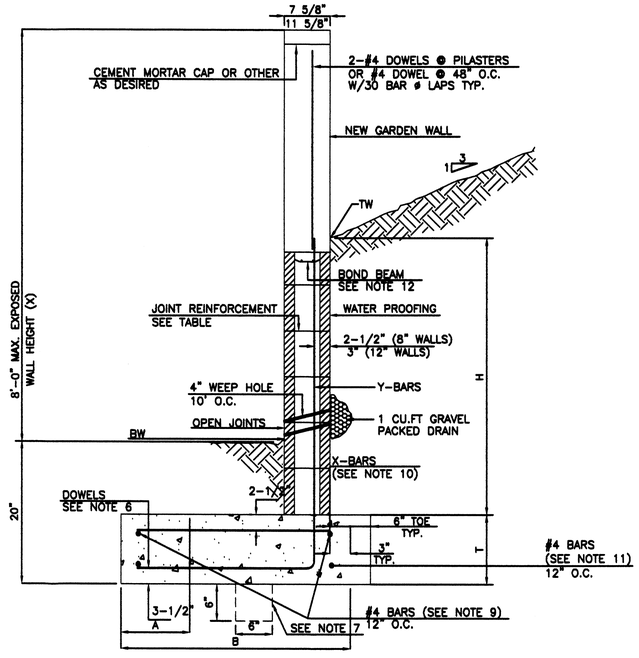
8. PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
9. USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.



L-FOOTING RETAINING WALL DETAIL

NTS-FOR USE ADJACENT TO ALL ROW

8 INCH REINFORCED CONCRETE MASONRY WALL

H	X	A	B	T	Y-BARS	X-BARS
ft.-in.	ft.-in.	in.	ft.-in.	in.		
2'-0"	1'-1"	8"	2'-4"	12"	#4 @32" O.C.	#4 @32" O.C.
2'-8"	1'-9"	8"	2'-4"	12"	#4 @32" O.C.	#4 @32" O.C.
3'-4"	2'-5"	8"	2'-4"	12"	#4 @32" O.C.	#4 @32" O.C.

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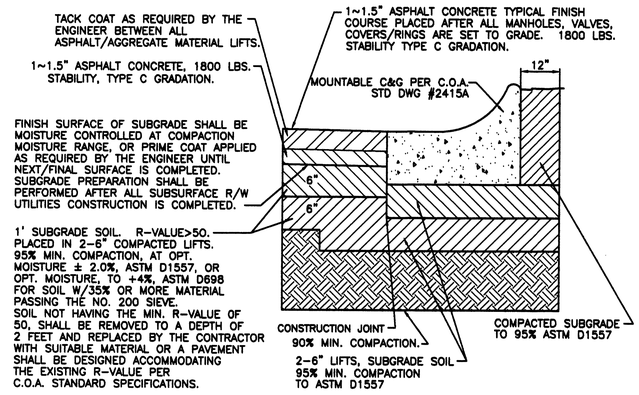
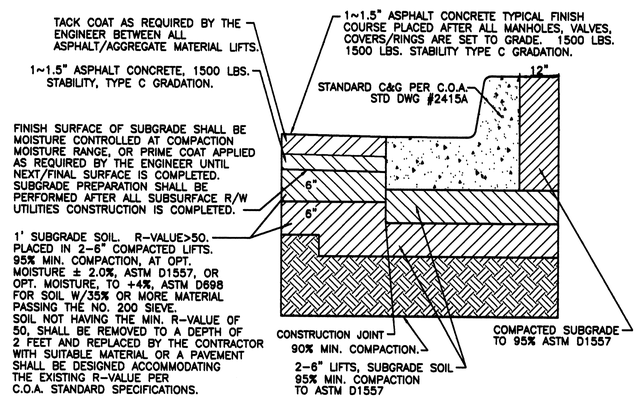
7. PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
8. USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.
9. #4 BARS TO BE USED ON WALLS EXCEEDING 2'-8" HEIGHT
10. X BARS TO BE USED ON WALLS EXCEEDING 2'-8" HEIGHT
11. #4 BARS TO BE USED ON WALLS SMALLER THAN 3'-4"
12. BOND BEAM, 1-#4 BARS FOR WALLS UNDER 3'-4", 2-#4 BARS FOR WALLS UNDER 5'-4", 2-#5 BARS FOR WALLS OVER 5'-4".
13. TW - DESIGNATES FINISHED GRADE @ TOP OF RETAINING WALL
BW - DESIGNATES FINISHED GRADE @ BOTTOM OF WALL.
BOOTOM OF FOOTING IS 20" BELOW THE DESIGNATED BW ELEVATION.



RESIDENTIAL PAVING SECTION (MOUNTABLE CURB)

NTS



RESIDENTIAL PAVING SECTION (STANDARD CURB)

NTS

ENGINEER'S SEAL

DAVID SOULE
NEW MEXICO
14522
REGISTERED PROFESSIONAL ENGINEER

DAVID SOULE
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UNIVERSITY CROSSING

GRADING AND DRAINAGE DETAILS

BY WCWJ

DATE 12-30-05

2537-GRD-11-16-05X

SHEET # 2 OF 2

JOB # 2537

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