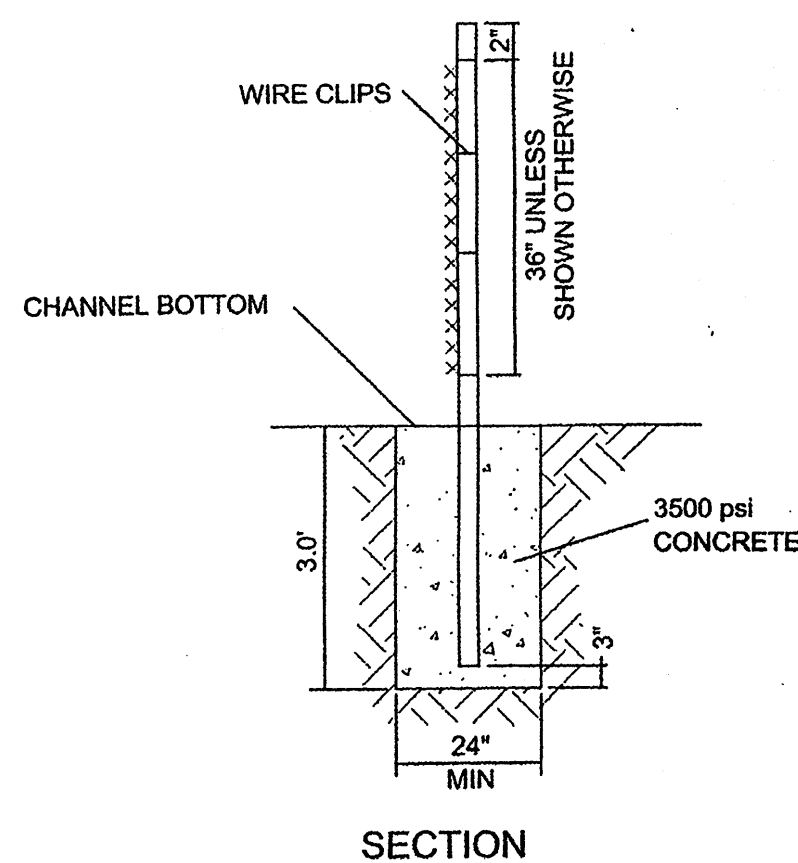
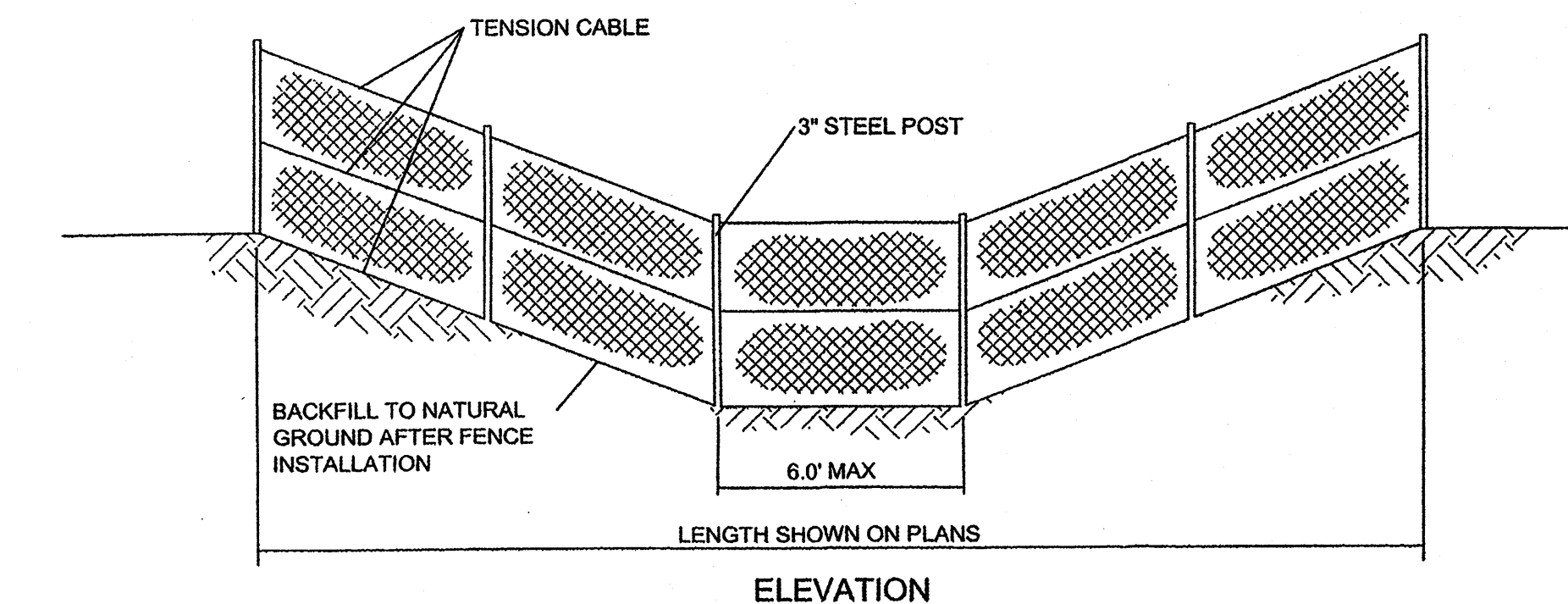
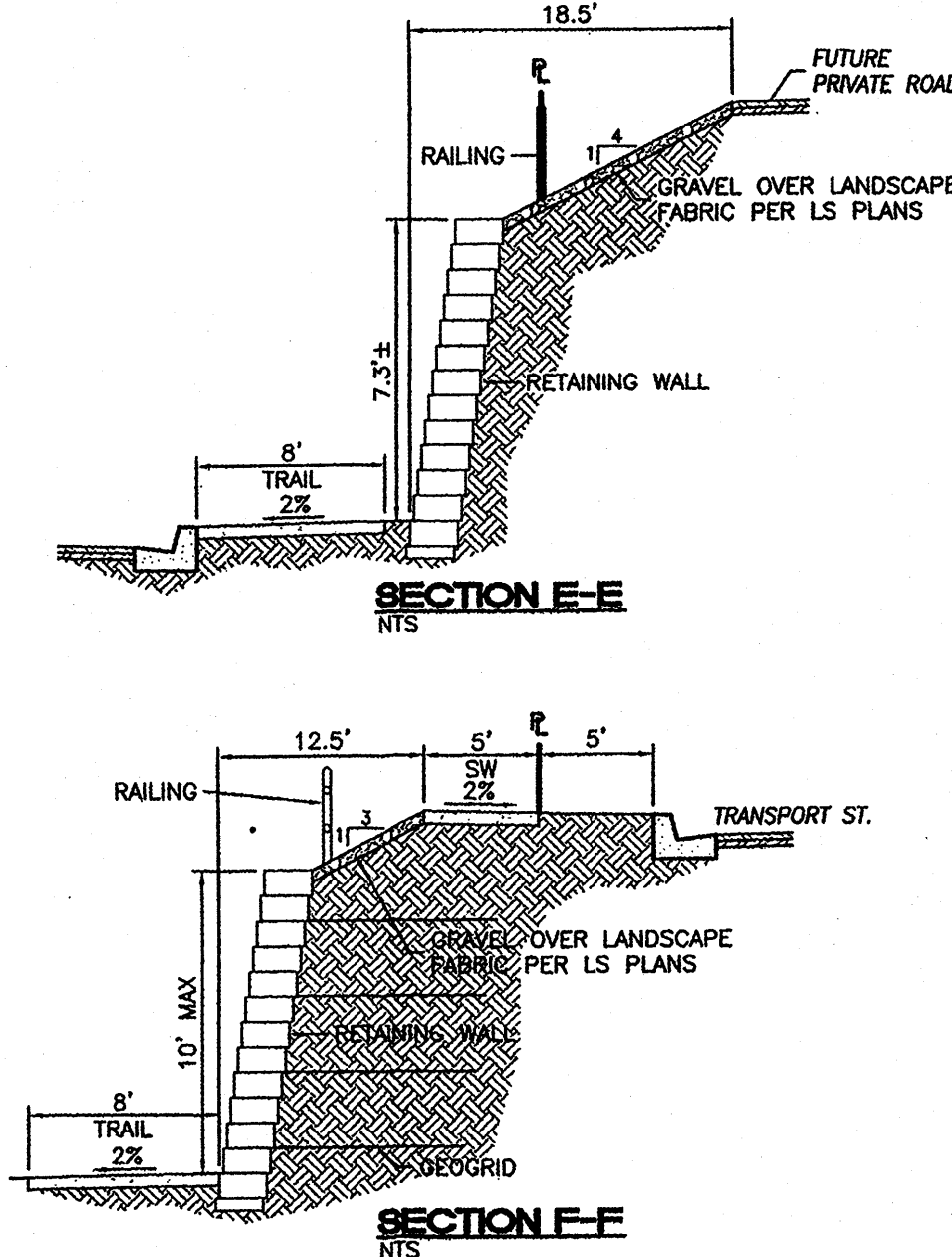


# LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING SD MANHOLE
- EXISTING SAS MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING GAS VALVE
- EXISTING OVERHEAD UTILITIES
- EXISTING GAS
- EX. 8" SAS
- EX. WL
- EX. RCP
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR



## NOTES

1. FENCE FABRIC SHALL BE 2" MESH 9 GAGE GALVANIZED WIRE, CHAINLIKE PLACED ON THE UPSTREAM SIDE OF THE POSTS AND TENSION CABLES
2. TENSION CABLE SHALL BE 5/16" DIA STEEL AT 18" C/C SECURED AT ENDS WITH CLAMPS. SECURE FENCE TO CABLE WITH NO 12 GALVANIZED STEEL WIRE LOOPED AT 6" C/C
3. POSTS SHALL BE 3" DIA STEEL PIPE, 5.79 LB/FT. FILL MORTAR AFTER PLACING
4. FENCE FABRIC SHALL BE SECURED TO POSTS WITH 9 GAGE WIRE CLIPS AT 9" C/C

1. RONALD R. BOHANNAN, NMPE # 7868, OF THE FIRM, TIERRA WEST, LLC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/21/13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THOMAS JOHNSON, NMPS # 14289. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 7/27/14 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR DRAINAGE CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY.

2. DRAINAGE CERTIFICATION WITH SURVEY WORK DONE BY PROFESSIONAL SURVEYOR

3. DRAINAGE CERTIFICATION FOR ZONE 4

4. EXEMPTIONS: NONE TAKEN

5. THIS CERTIFICATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED THAT INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

6. DATE: 7/27/14

7. SIGNATURE: RONALD R. BOHANNAN, NMPE # 7868

8. TITLE: PROFESSIONAL ENGINEER

9. PROJECT: CAPSTONE STUDENT HOUSING

10. SHEET: 2011064-GR

11. JOB #

12. DATE: 2011064

13. SCALE: 1"=30'

14. DRAWN BY: SH

15. DATE: 12-13-13

16. DRAWING: 2011064-GR

17. SHEET #

18. C5F

19. JOB #

20. 2011064

21. SCALE: 1"=30'

22. DRAWN BY: SH

23. DATE: 12-13-13

24. DRAWING: 2011064-GR

25. SHEET #

26. C5F

27. JOB #

28. 2011064

29. SCALE: 1"=30'

30. DRAWN BY: SH

31. DATE: 12-13-13

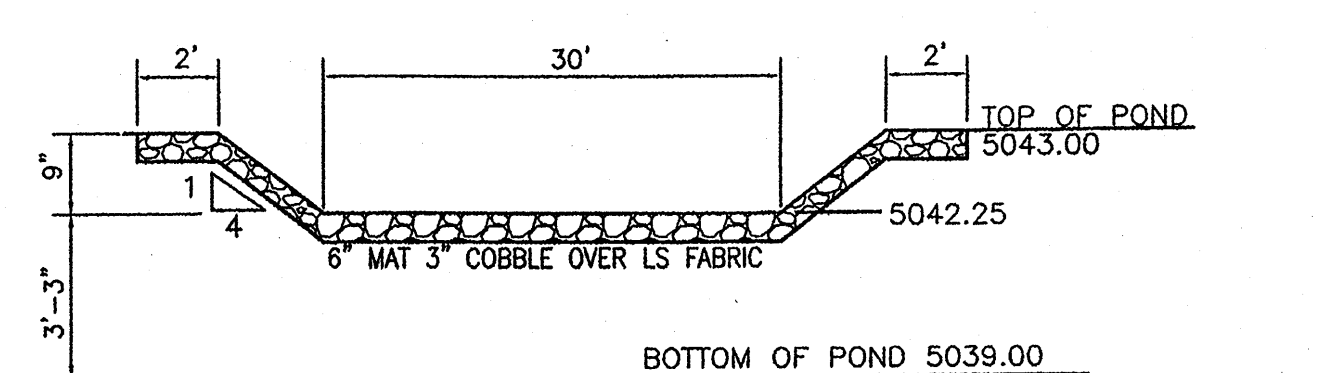
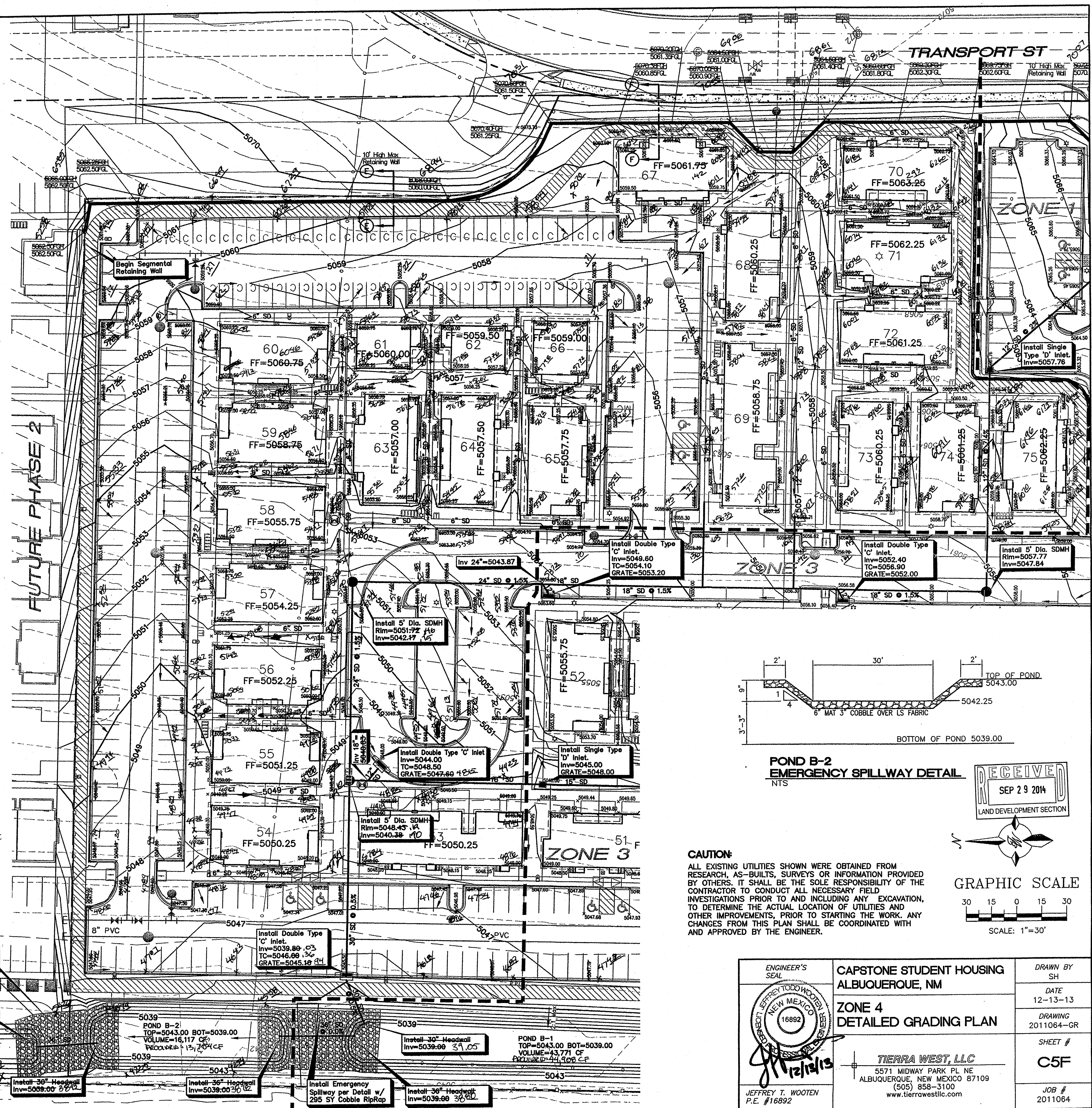
32. DRAWING: 2011064-GR

33. SHEET #

34. C5F

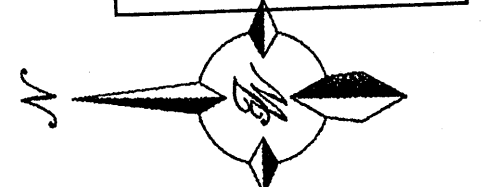
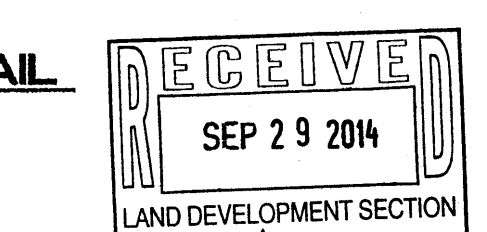
35. JOB #

36. 2011064



## CAUTION:

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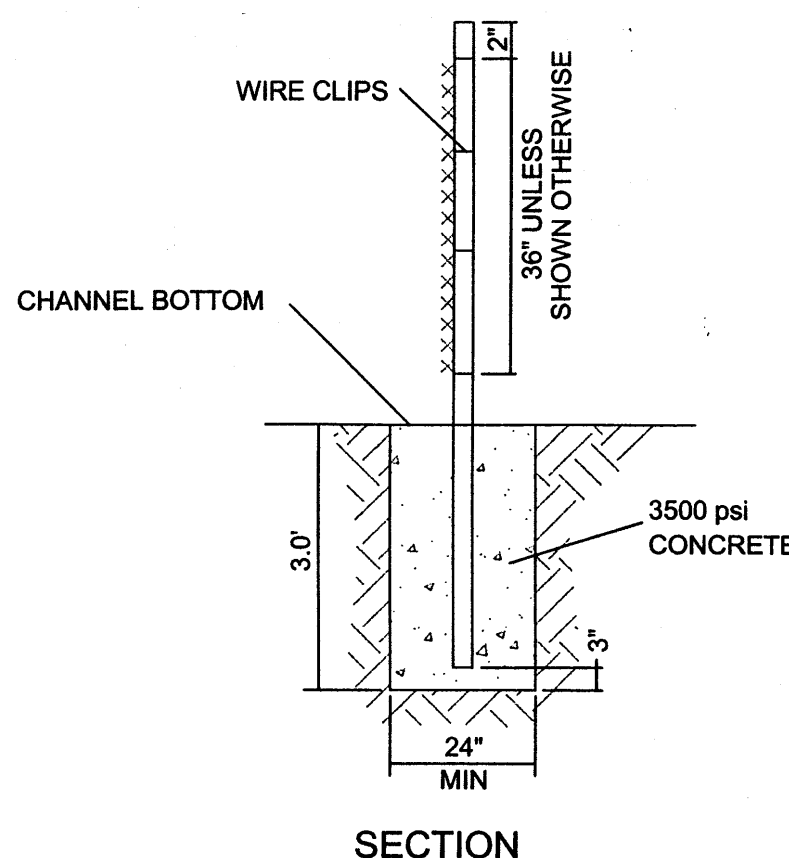
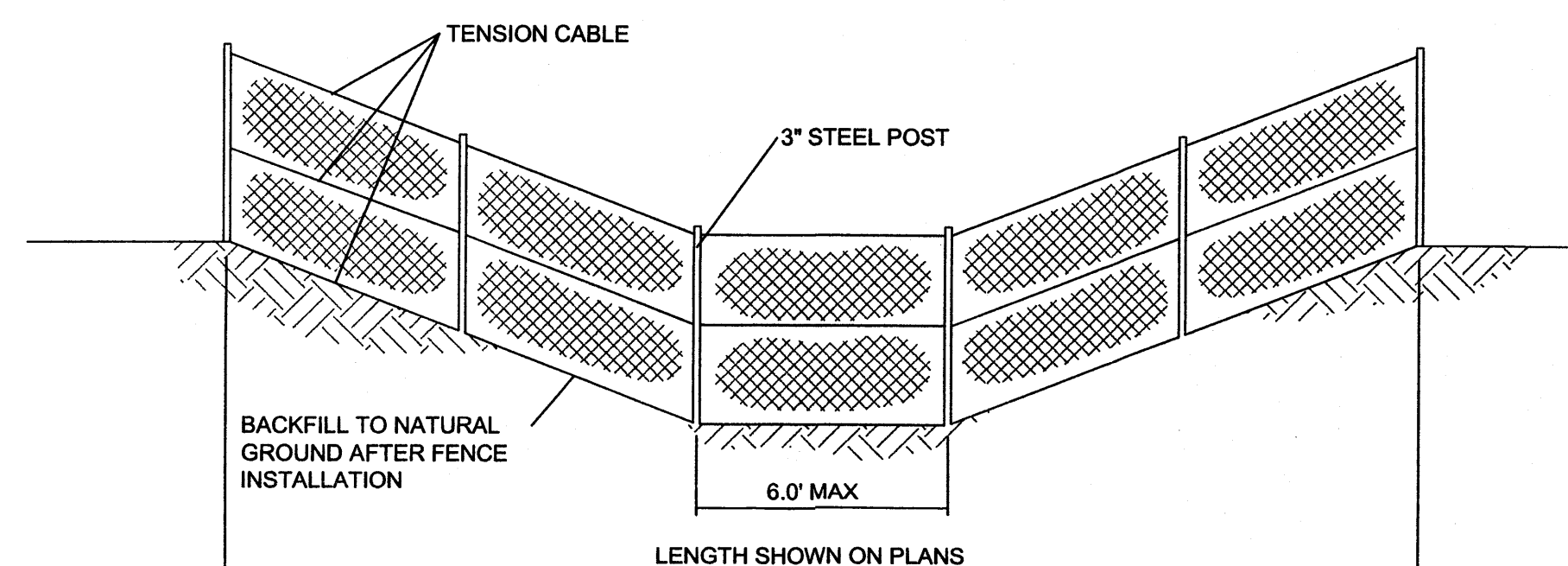
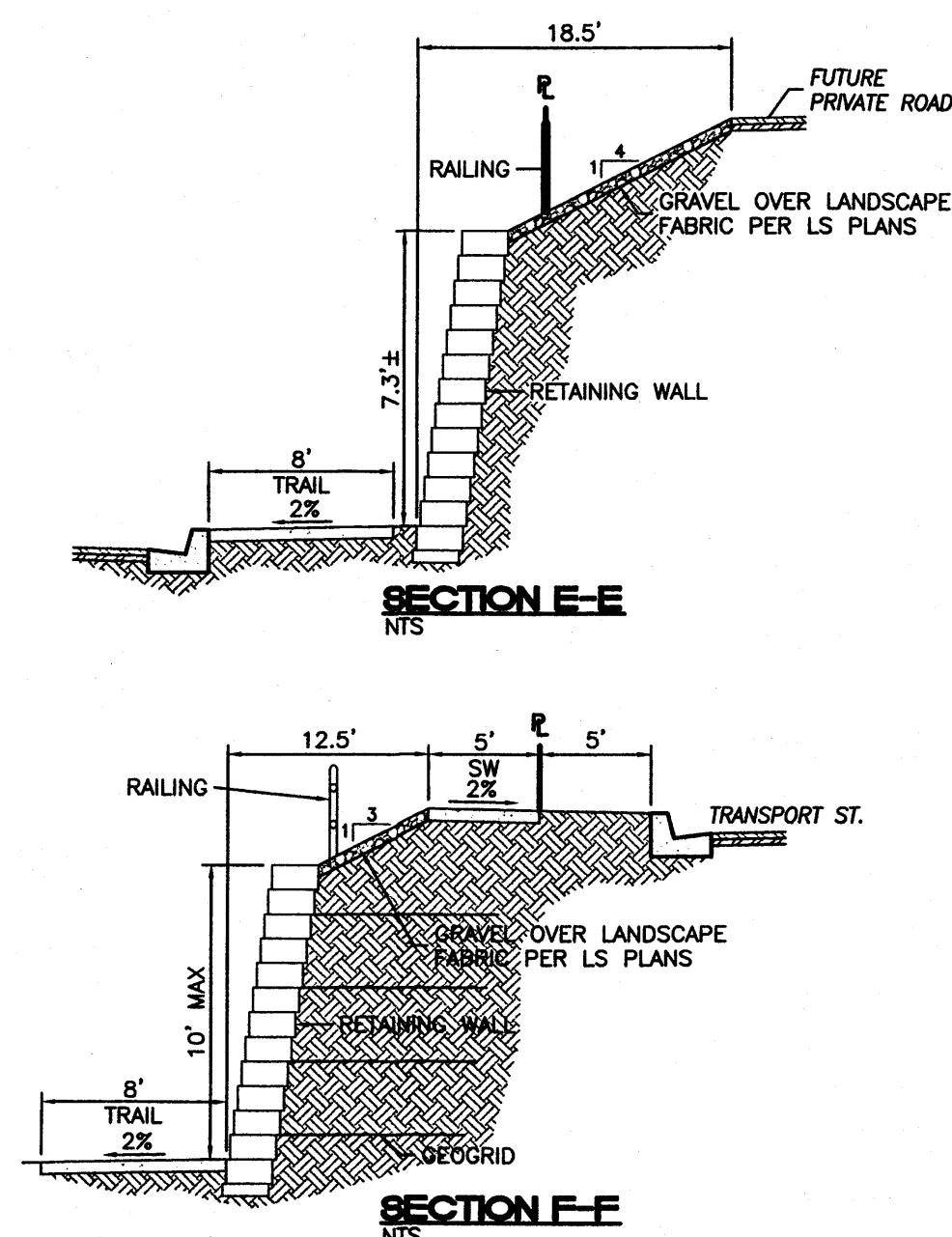


|                                                                 |                                                                                                                                                                                                                               |                                                                                                                               |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <p>ENGINEER'S SEAL</p> <p>JEFFREY T. WOOTEN<br/>P.E. #16892</p> | <p>CAPSTONE STUDENT HOUSING<br/>ALBUQUERQUE, NM</p> <p>ZONE 4<br/>DETAILED GRADING PLAN</p> <p>TIERRA WEST, LLC<br/>5571 MIDWAY PARK PL NE<br/>ALBUQUERQUE, NEW MEXICO 87109<br/>(505) 858-3100<br/>www.tierrawestllc.com</p> | <p>DRAWN BY<br/>SH</p> <p>DATE<br/>12-13-13</p> <p>DRAWING<br/>2011064-GR</p> <p>SHEET #<br/>C5F</p> <p>JOB #<br/>2011064</p> |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|



# LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING SD MANHOLE
- EXISTING SAS MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING GAS VALVE
- EXISTING OVERHEAD UTILITIES
- EXISTING GAS
- EX. 8" SAS — EXISTING SANITARY SEWER LINE
- EX. WL — EXISTING WATER LINE
- EX. RCP — EXISTING STORM SEWER LINE
- 4900 — EXISTING INDEX CONTOUR
- — EXISTING CONTOUR

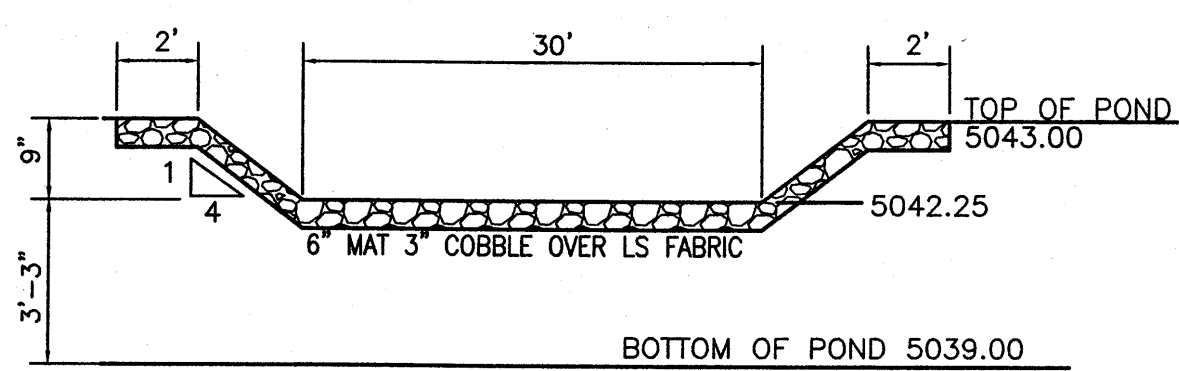
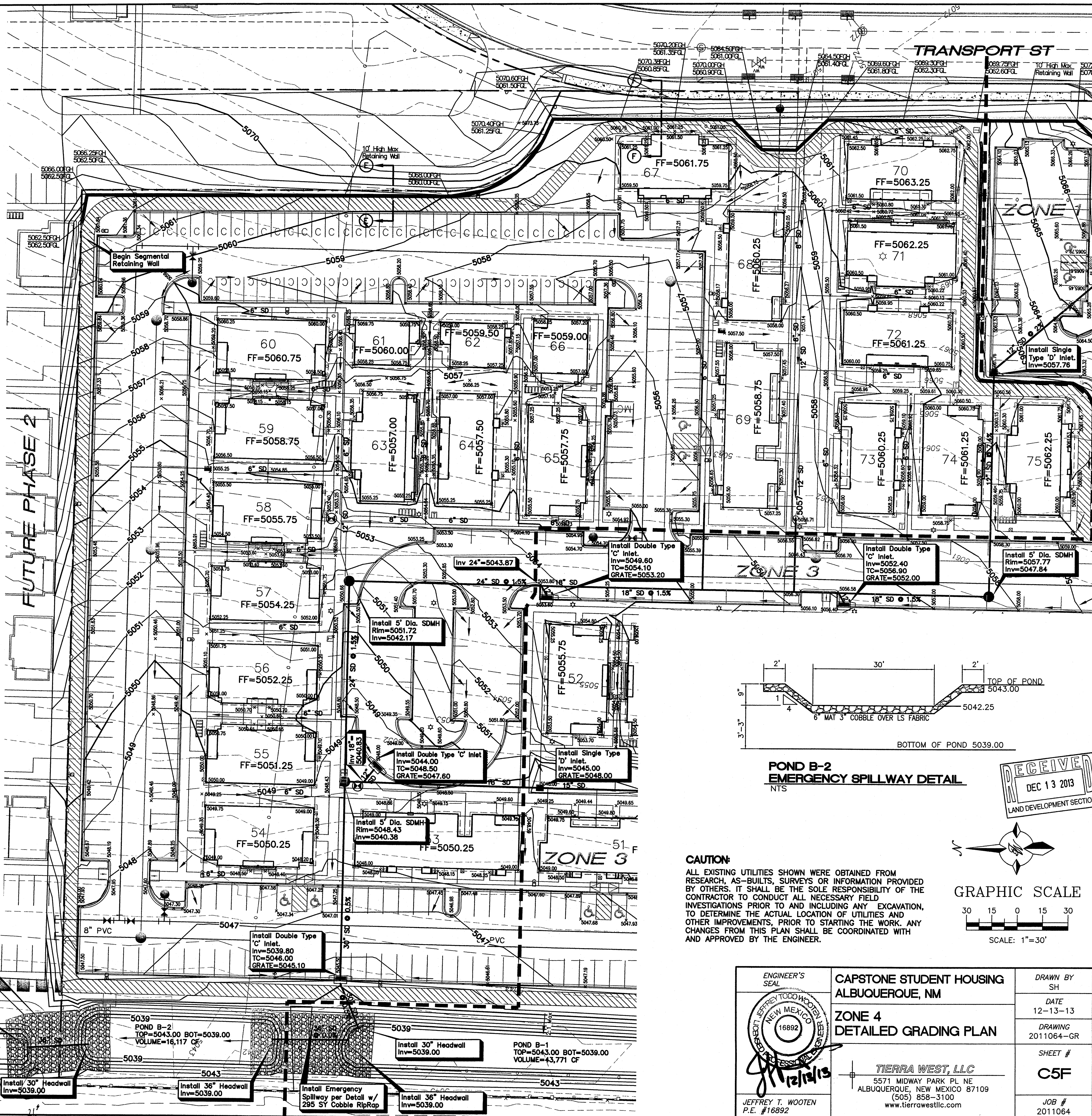


## NOTES

1. FENCE FABRIC SHALL BE 2" MESH 9 GAGE GALVANIZED WIRE, CHAINLIKE PLACED ON THE UPSTREAM SIDE OF THE POSTS AND TENSION CABLES
2. TENSION CABLE SHALL BE 5/16" DIA STEEL AT 18" C/C SECURED AT ENDS WITH CLAMPS. SECURE FENCE TO CABLE WITH NO 12 GALVANIZED STEEL WIRE LOOPED AT 6" C/C
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4. FENCE FABRIC SHALL BE SECURED TO POSTS WITH 9 GAGE WIRE CLIPS AT 9" C/C

## DEBRIS FENCE DETAIL

NTS

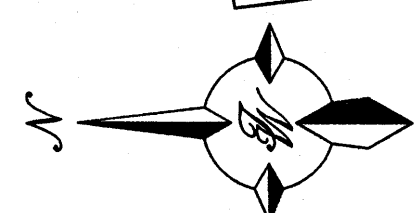


## POND B-2 EMERGENCY SPILLWAY DETAIL

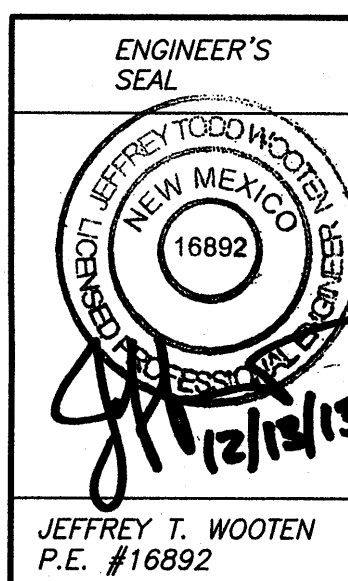
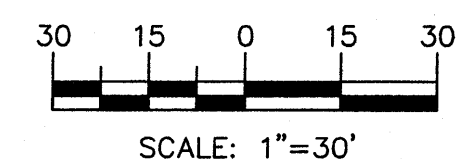
NTS

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## GRAPHIC SCALE



**CAPSTONE STUDENT HOUSING  
ALBUQUERQUE, NM**

**ZONE 4  
DETAILED GRADING PLAN**

**TIERRA WEST, LLC**  
5571 MIDWAY PARK PL NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 858-3100  
www.tierrawestllc.com

**DRAWN BY**  
SH

**DATE**  
12-13-13

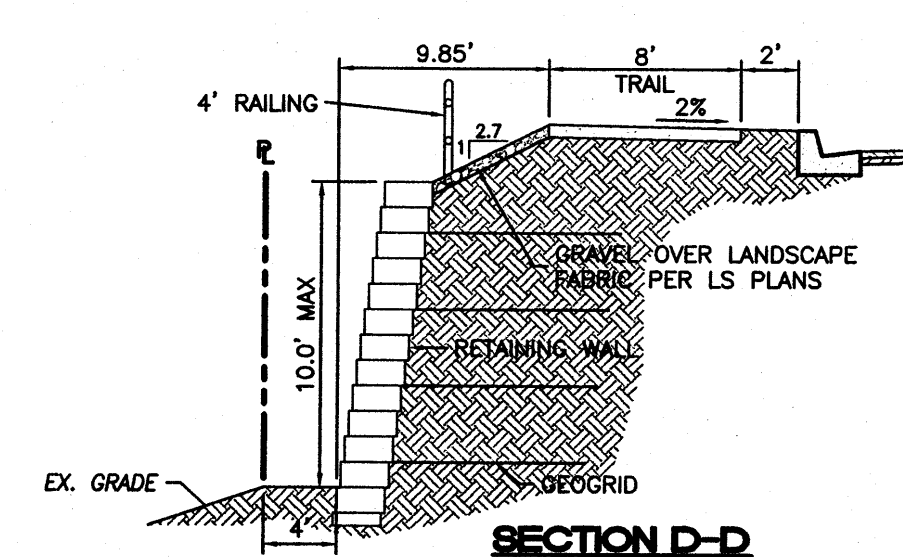
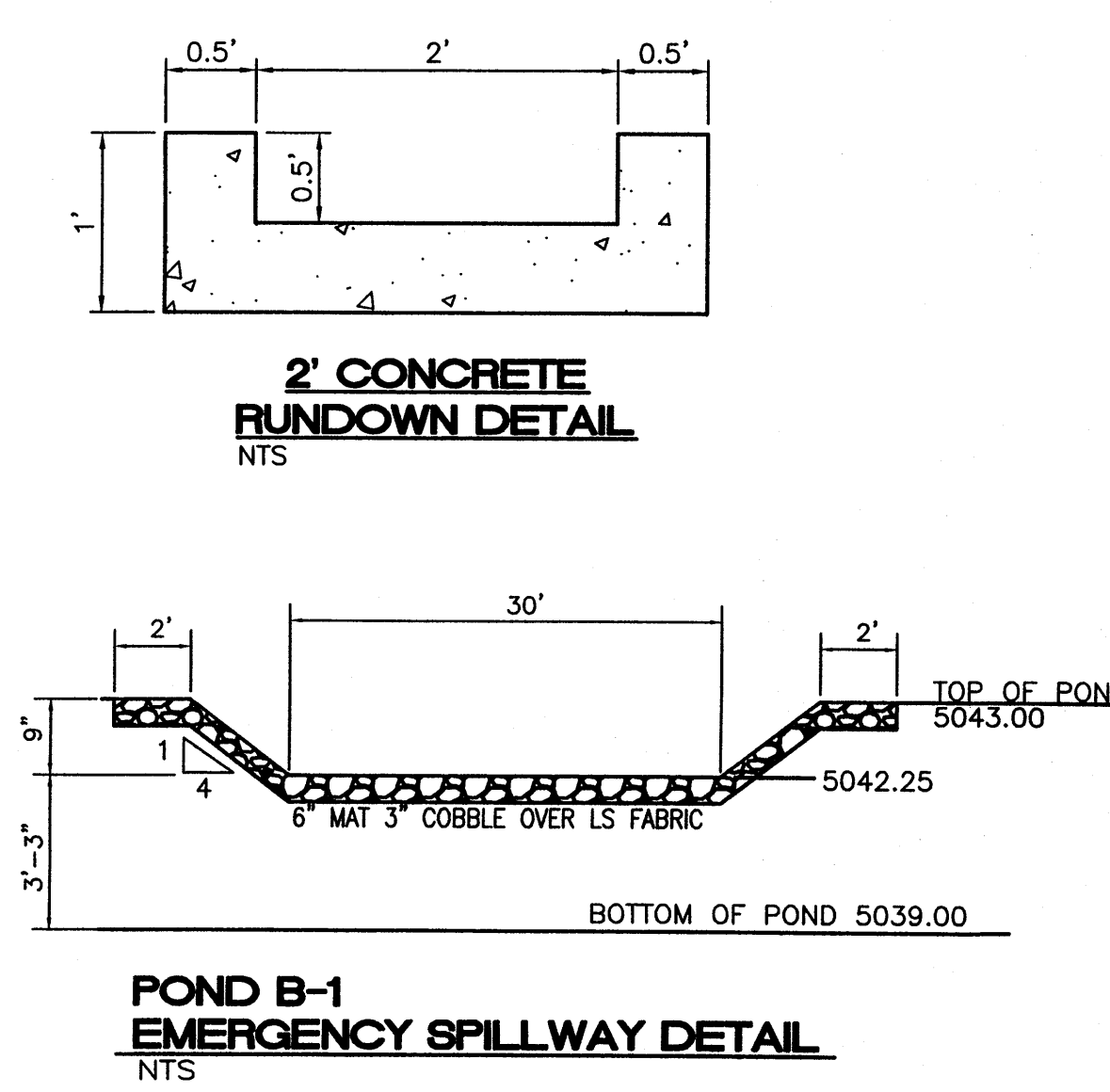
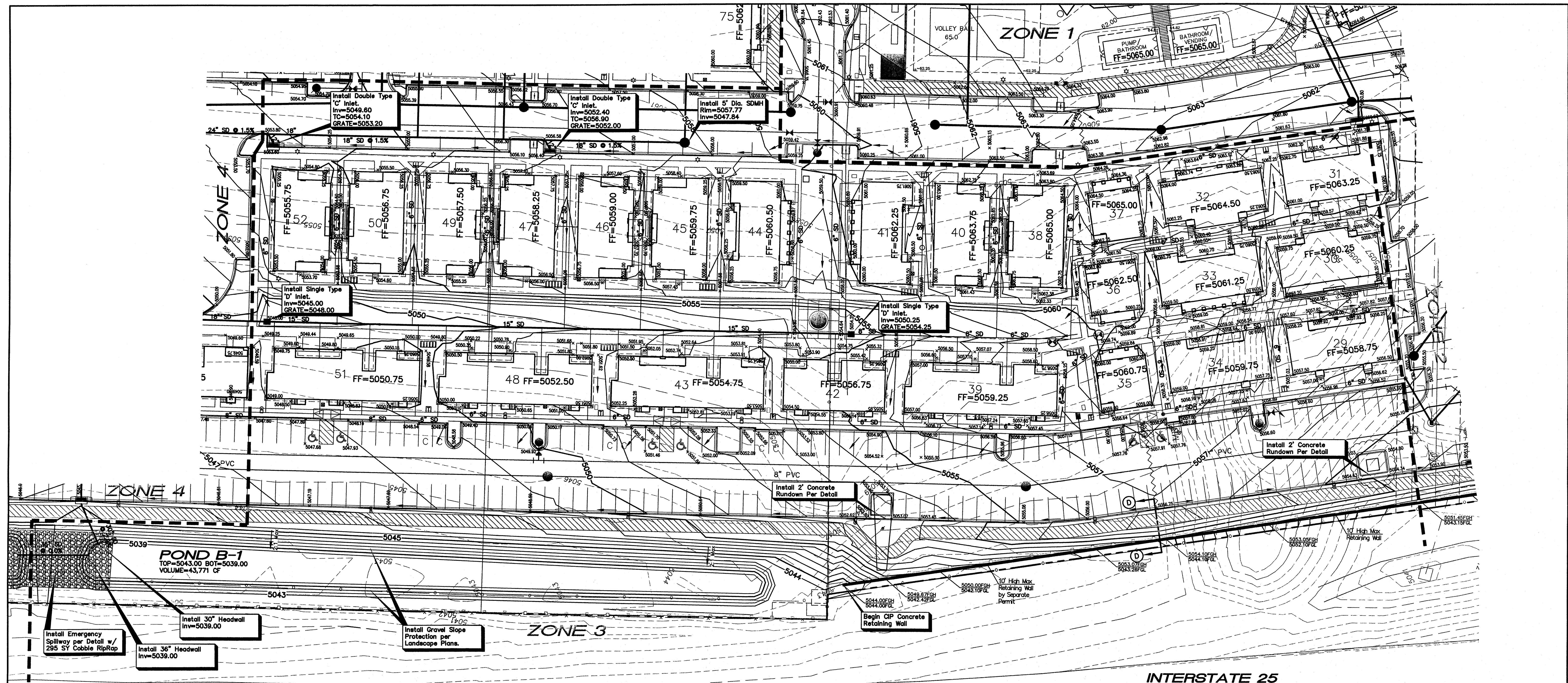
**DRAWING**  
2011064-CR

**SHEET #**  
**C5F**

**JOB #**  
2011064

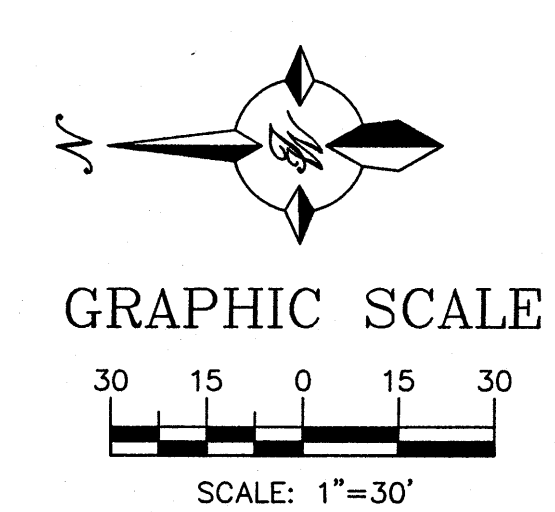






- LEGEND**
- CURB & GUTTER
  - BOUNDARY LINE
  - EASEMENT
  - SIDEWALK
  - EXISTING CURB & GUTTER
  - SINGLE CLEAN OUT
  - DOUBLE CLEAN OUT
  - EXISTING SD MANHOLE
  - EXISTING SAS MANHOLE
  - EXISTING FIRE HYDRANT
  - EXISTING WATER METER
  - EXISTING POWER POLE
  - EXISTING GAS VALVE
  - EXISTING OVERHEAD UTILITIES
  - EXISTING GAS
  - EX. 8" SAS
  - EX. WL
  - EX. RCP
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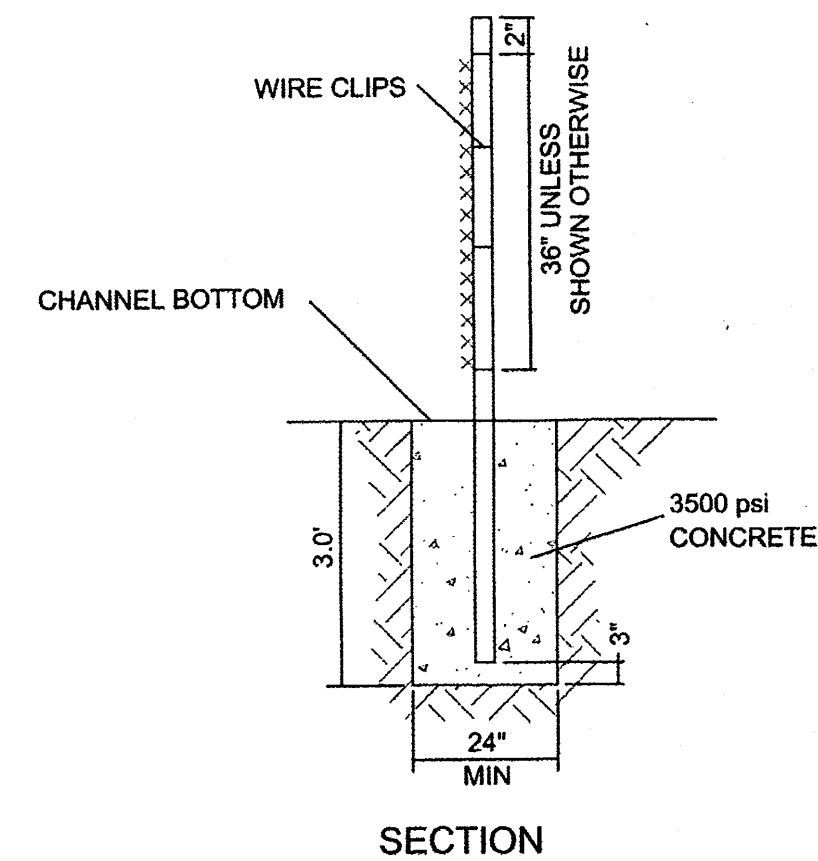
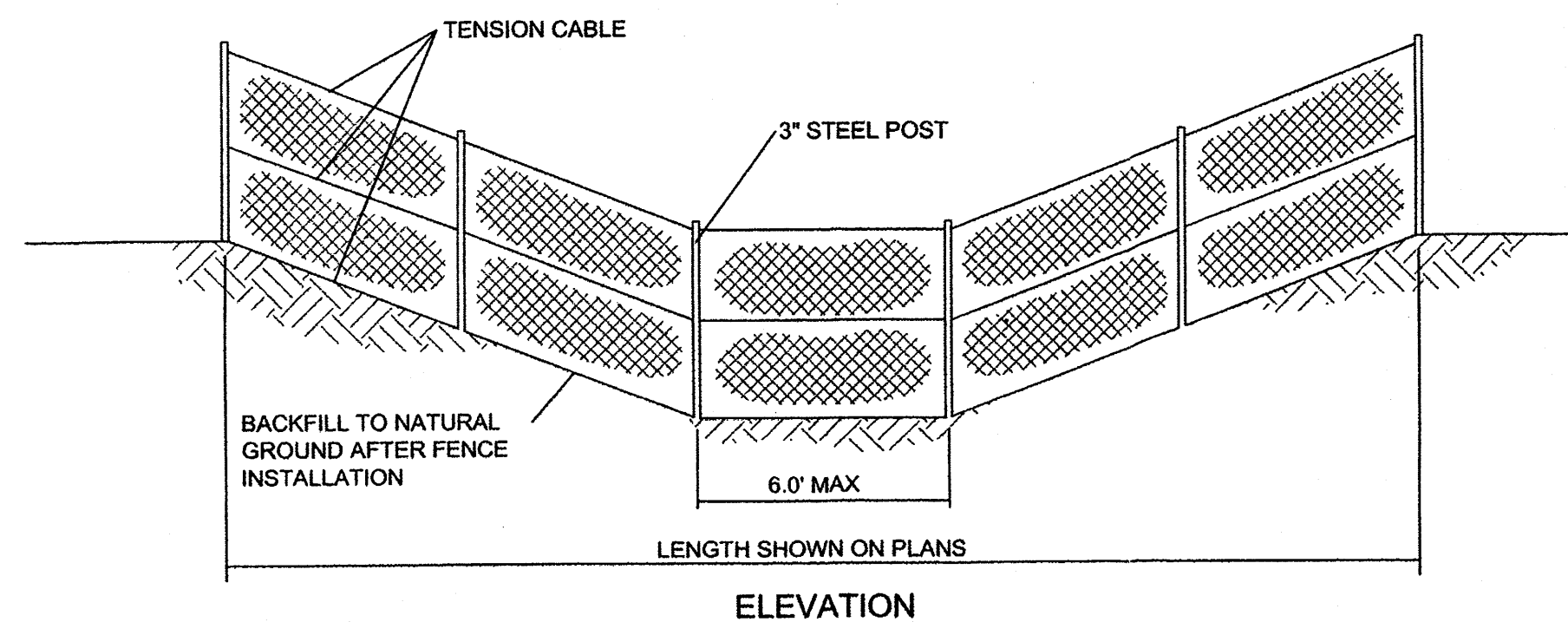
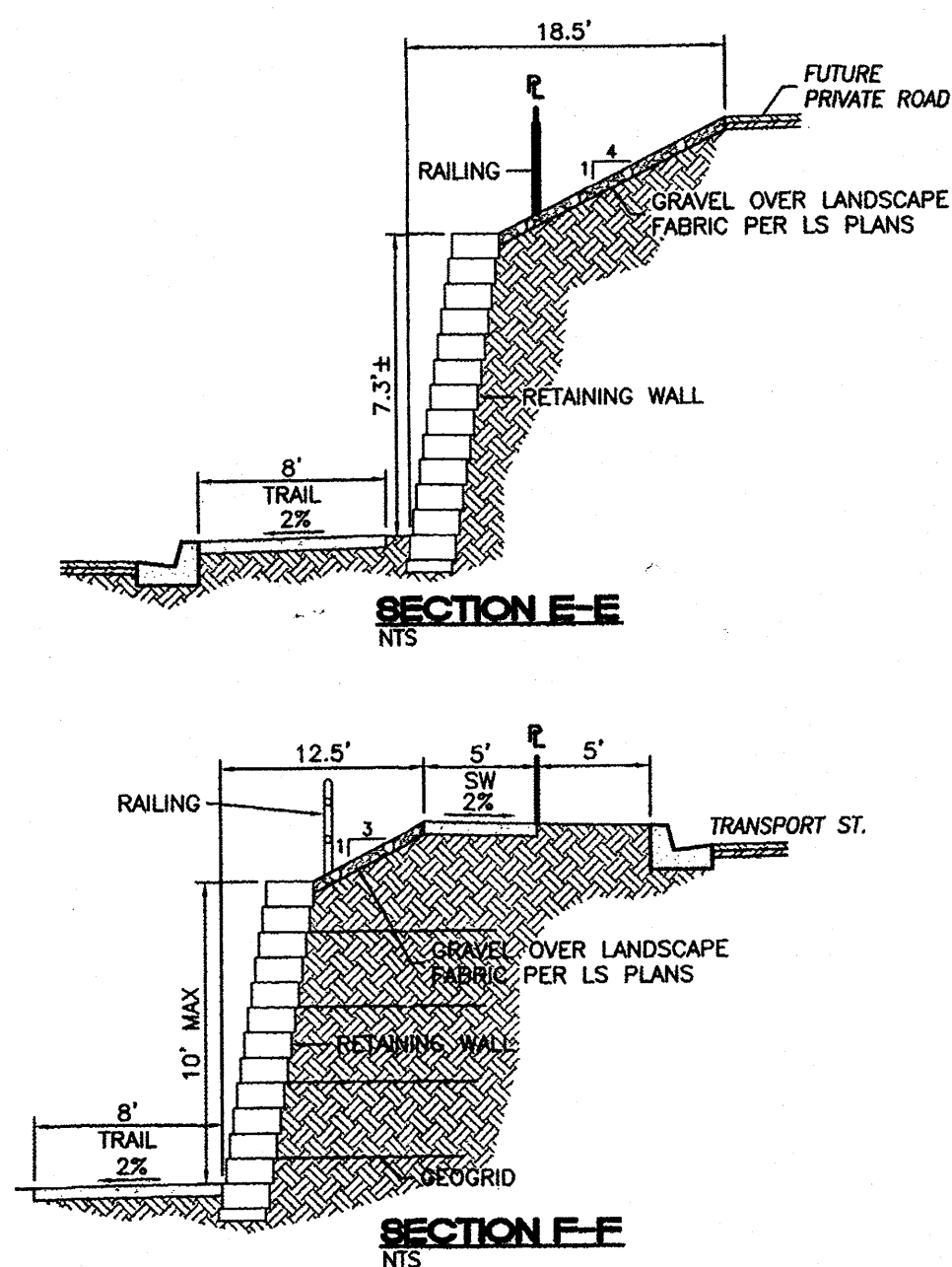


|  |                 |                                             |                       |
|--|-----------------|---------------------------------------------|-----------------------|
|  | ENGINEER'S SEAL | CAPSTONE STUDENT HOUSING<br>ALBUQUERQUE, NM | DRAWN BY<br>SH        |
|  |                 | ZONE 3<br>DETAILED GRADING PLAN             | DATE<br>8-28-13       |
|  |                 |                                             | DRAWING<br>2011064-GR |
|  |                 |                                             | SHEET #<br>C5E        |
|  |                 |                                             | JOB #<br>2011064      |



# LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING SD MANHOLE
- EXISTING SAS MANHOLE
- EXISTING FIRE HYDRANT
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- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
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- EXISTING INDEX CONTOUR
- EXISTING CONTOUR



## NOTES

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- TENSION CABLE SHALL BE 5/16" DIA STEEL AT 18" C/C SECURED AT ENDS WITH CLAMPS. SECURE FENCE TO CABLE WITH NO 12 GALVANIZED STEEL WIRE LOOPED AT 6" C/C
- POSTS SHALL BE 3" DIA STEEL PIPE, 5.79 LB/FT. FILL MORTAR AFTER PLACING
- FENCE FABRIC SHALL BE SECURED TO POSTS WITH 9 GAGE WIRE CLIPS AT 9" C/C

## DRAINAGE CERTIFICATION BASED ON FIELD OBSERVATION AND MEASUREMENTS

### DRAINAGE CERTIFICATION FOR ZONE 4

I, RONALD R. BOHANNAN, NMPE #7868 OF THE FIRM TERRA WEST, LLC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADUALLY DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE TO THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/22/2013. RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY FIELD MEASUREMENTS TAKEN ON 01/13/2014. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR DRAINAGE CERTIFICATION FOR CONDITIONAL TEMPORARY CERTIFICATE OF OCCUPANCY.

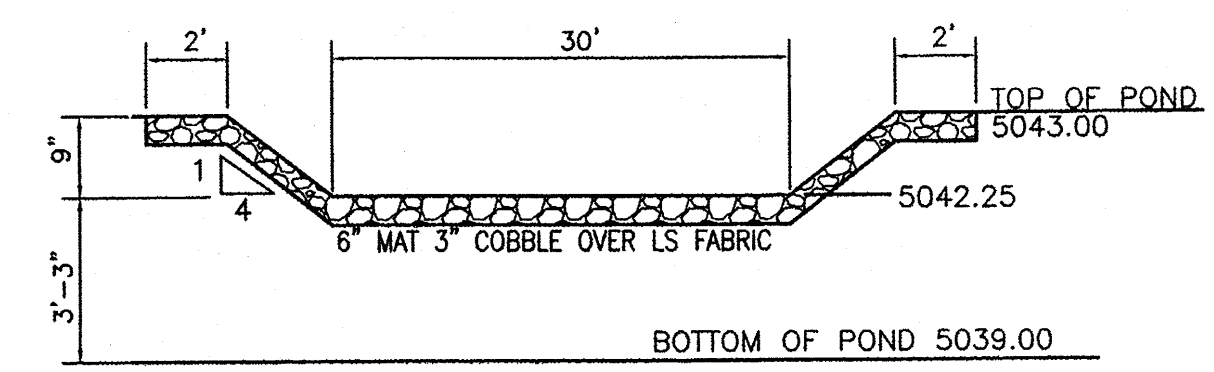
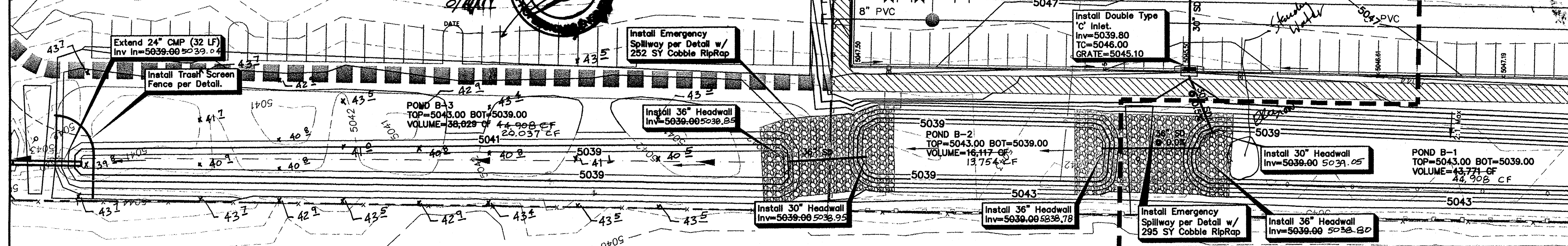
EXCEPTIONS: AMENDED AS-BUILT DRAWING USING DATA PROVIDED BY PROFESSIONAL SURVEYOR TO BE PROVIDED PRIOR TO RESUBMISSION FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF THE INFORMATION USING IT FOR ANY OTHER PURPOSE.



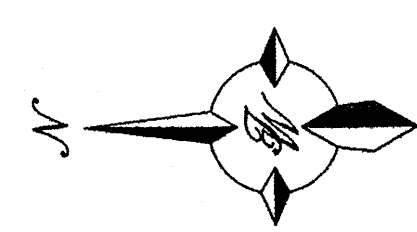
## DEBRIS FENCE DETAIL

POND VOLUME  
REQUIRED PER HYDROLOGY REPORT  
= 73,798 CF  
AS-BUILT PROVIDED 2 B-1, B-2, B-3  
= 78,698 CF : OK

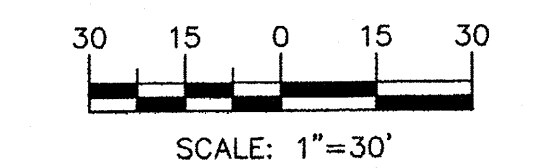


## CAUTION

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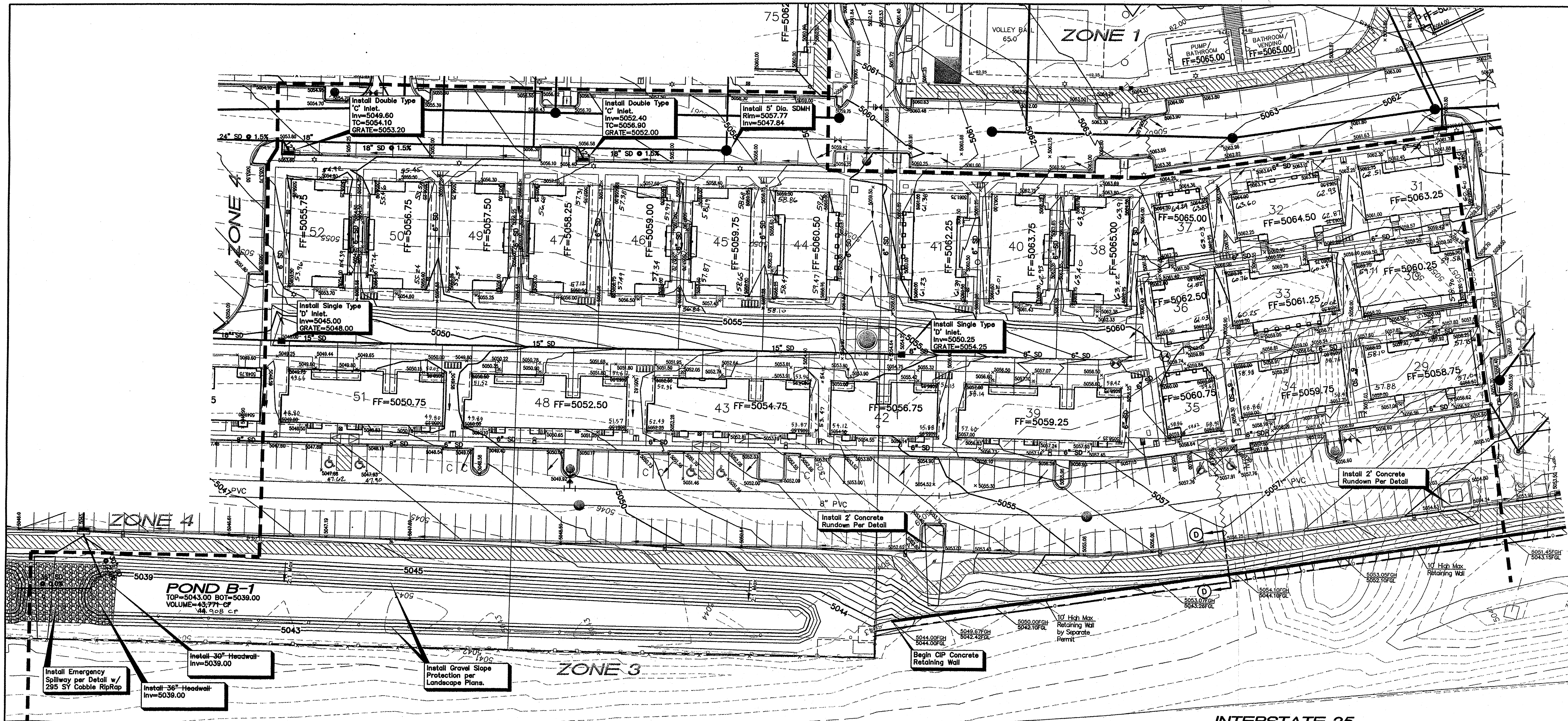


## GRAPHIC SCALE



|  |                                                                                                                       |                       |
|--|-----------------------------------------------------------------------------------------------------------------------|-----------------------|
|  | CAPSTONE STUDENT HOUSING<br>ALBUQUERQUE, NM                                                                           | DRAWN BY<br>SH        |
|  | ZONE 4<br>DETAILED GRADING PLAN                                                                                       | DATE<br>12-13-13      |
|  | TERRA WEST, LLC<br>5571 MIDWAY PARK PL NE<br>ALBUQUERQUE, NEW MEXICO 87109<br>(505) 858-3100<br>www.tierrawestllc.com | DRAWING<br>2011064-GR |
|  |                                                                                                                       | SHEET #<br>C5F        |
|  |                                                                                                                       | JOB #<br>2011064      |





INTERSTATE 25

**DRAINAGE CERTIFICATION WITH SURVEY WORK DONE BY PROFESSIONAL SURVEYOR**

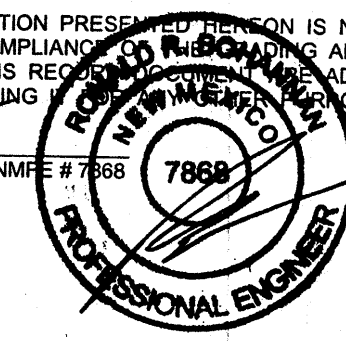
DRAINAGE CERTIFICATION FOR ZONE 3

I, RONALD R. BOHANNAN, NMP# 7888, OF THE FIRM, TIERRA WEST LLC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/03/13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THOMAS JOHNSTON, NMP# 14289. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 8/13/14, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR DRAINAGE CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY.

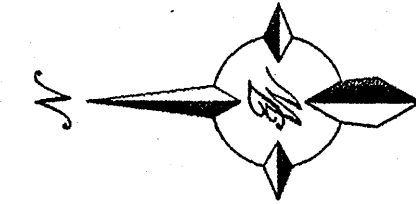
EXCEPTIONS: NONE TAKEN

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERY SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN. THOSE RELYING ON THIS RECORD INFORMATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

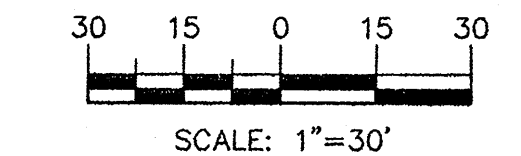
RONALD R. BOHANNAN, NMP# 7888  
DATE 8/13/14



(SEAL)



GRAPHIC SCALE

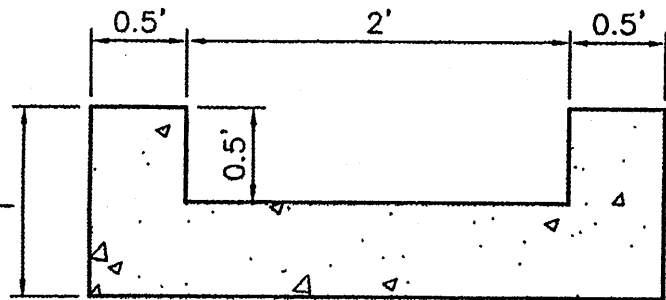


**LEGEND**

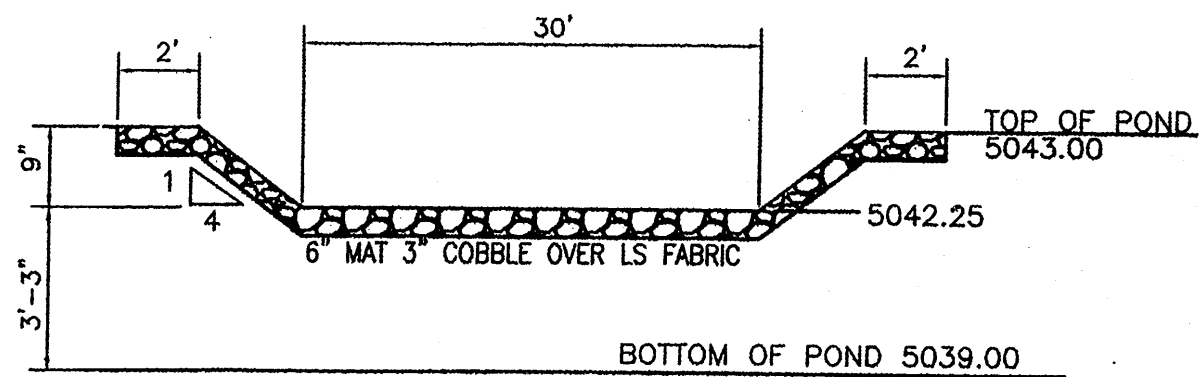
- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- SINGLE CLEAN OUT
- DOUBLE CLEAN OUT
- EXISTING SD MANHOLE
- EXISTING SAS MANHOLE
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- EXISTING GAS VALVE
- EX. 8" SAS
- EX. WL
- EX. RCP
- 4900
- EXISTING OVERHEAD UTILITIES
- EXISTING GAS
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR

**CAUTION:**

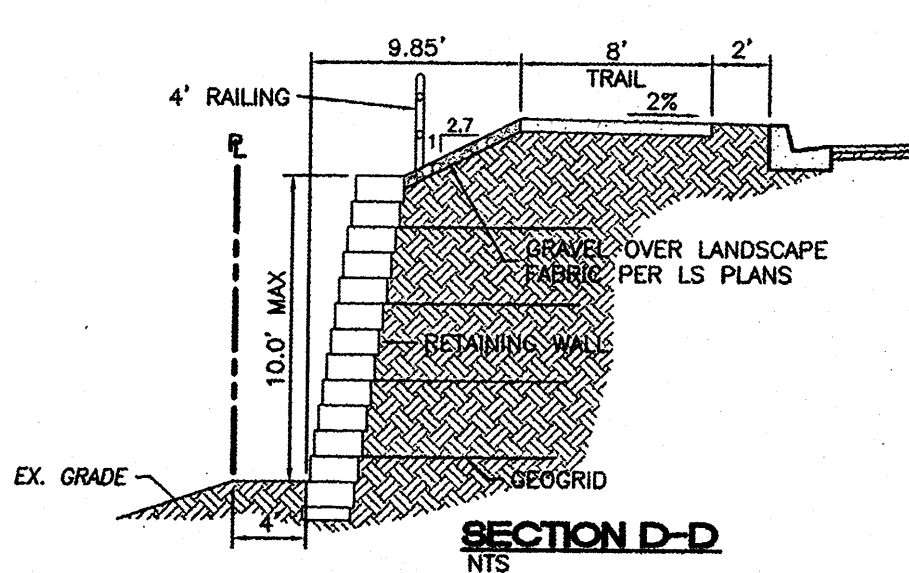
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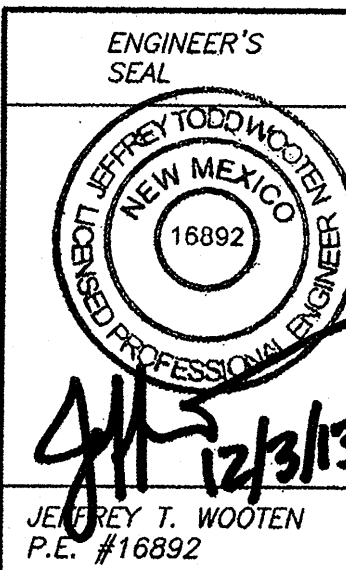
**2' CONCRETE RUNDOWN DETAIL**  
NTS



**POND B-1 EMERGENCY SPILLWAY DETAIL**  
NTS



**SECTION D-D**  
NTS



**CAPSTONE STUDENT HOUSING  
ALBUQUERQUE, NM**  
**ZONE 3  
DETAILED GRADING PLAN**

TIERRA WEST, LLC  
5571 MIDWAY PARK PL NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 858-3100  
www.tierrawestllc.com

DRAWN BY  
SH  
DATE  
8-28-13  
DRAWING  
2011064-GR  
SHEET #  
C5E  
JOB #  
2011064

