# CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



September 13, 2019

Ron Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place, NE Albuquerque, NM 87109

RE: U-Haul at West Bluff
1801 Atrisco Dr NW
Request for Certificate of Occupancy – Permanent
Engineer's Certification Date: 8/22/19 – Accepted
Grading Plan Stamp Date: 1/30/17
Hydrology File: H11D059

Dear Mr. Bohannan,

PO Box 1293 Based on the submittal received on 8/22/19 and supplemental information provided on 9/12/19,

the Engineer's Certification is approved in support of Certificate of Occupancy (Permanent) by

Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

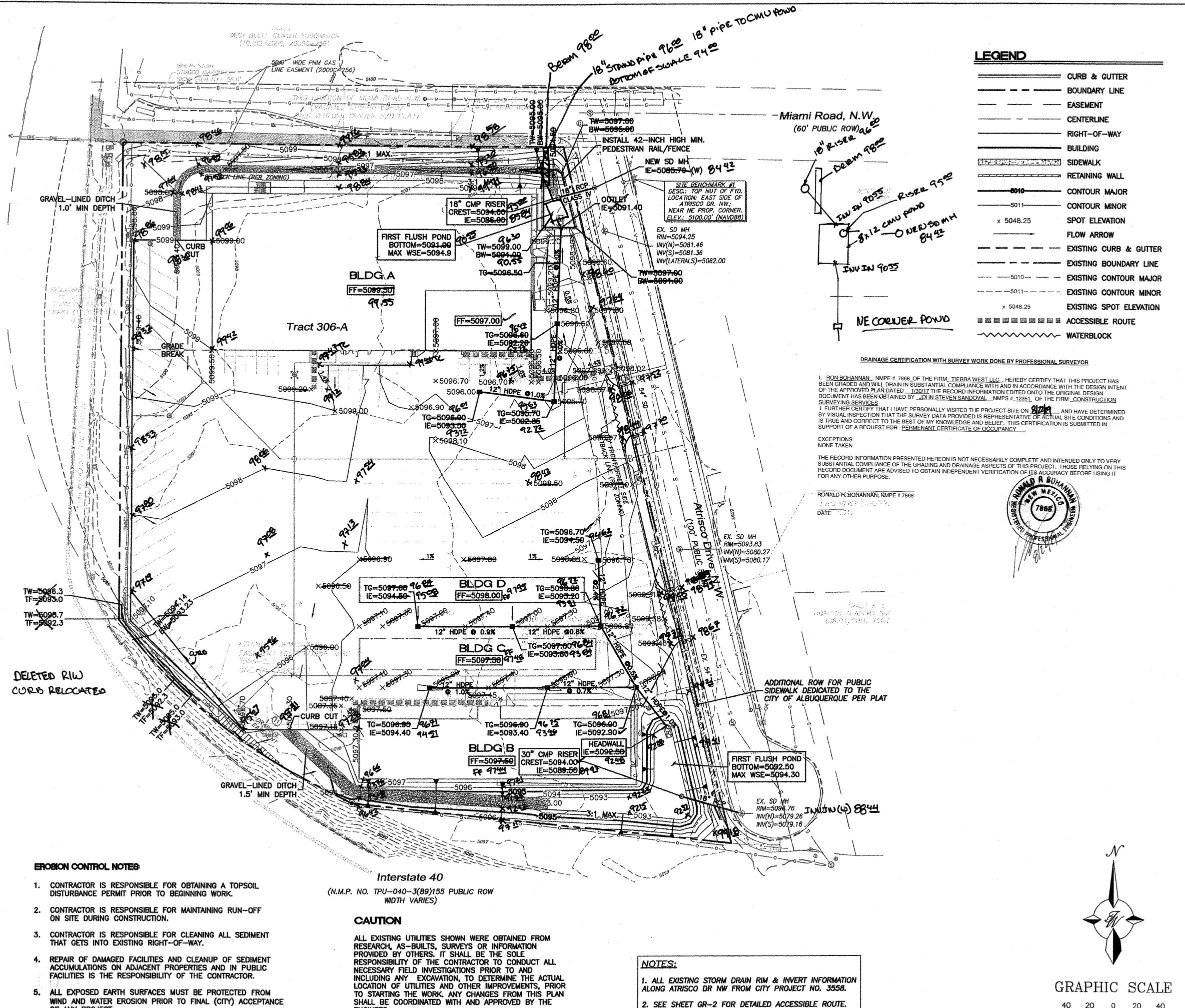
Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services

C: Email Fox, Debi; Tena, Victoria; Sandoval, Darlene; Costilla, Michelle

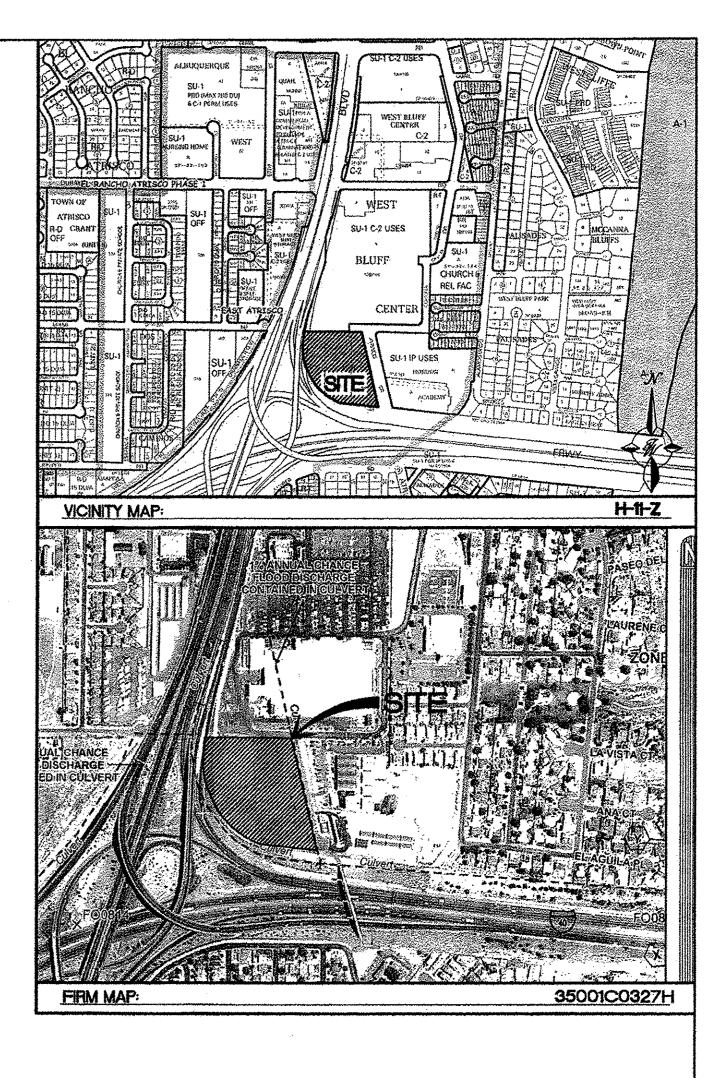






OF ANY PROJECT.

ENGINEER.



## NOTICE TO CONTRACTORS

- 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE 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.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVAL	NAME	DATE
INSPECTOR		

SCALE: 1"=40'

WEST BLUFF DRAWN BY BUSINESS CENTER 1/30/17 GRADING AND DRAINAGE PLAN 2016061-GRB

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100

JOB # www.tierrawestlic.com 2016061

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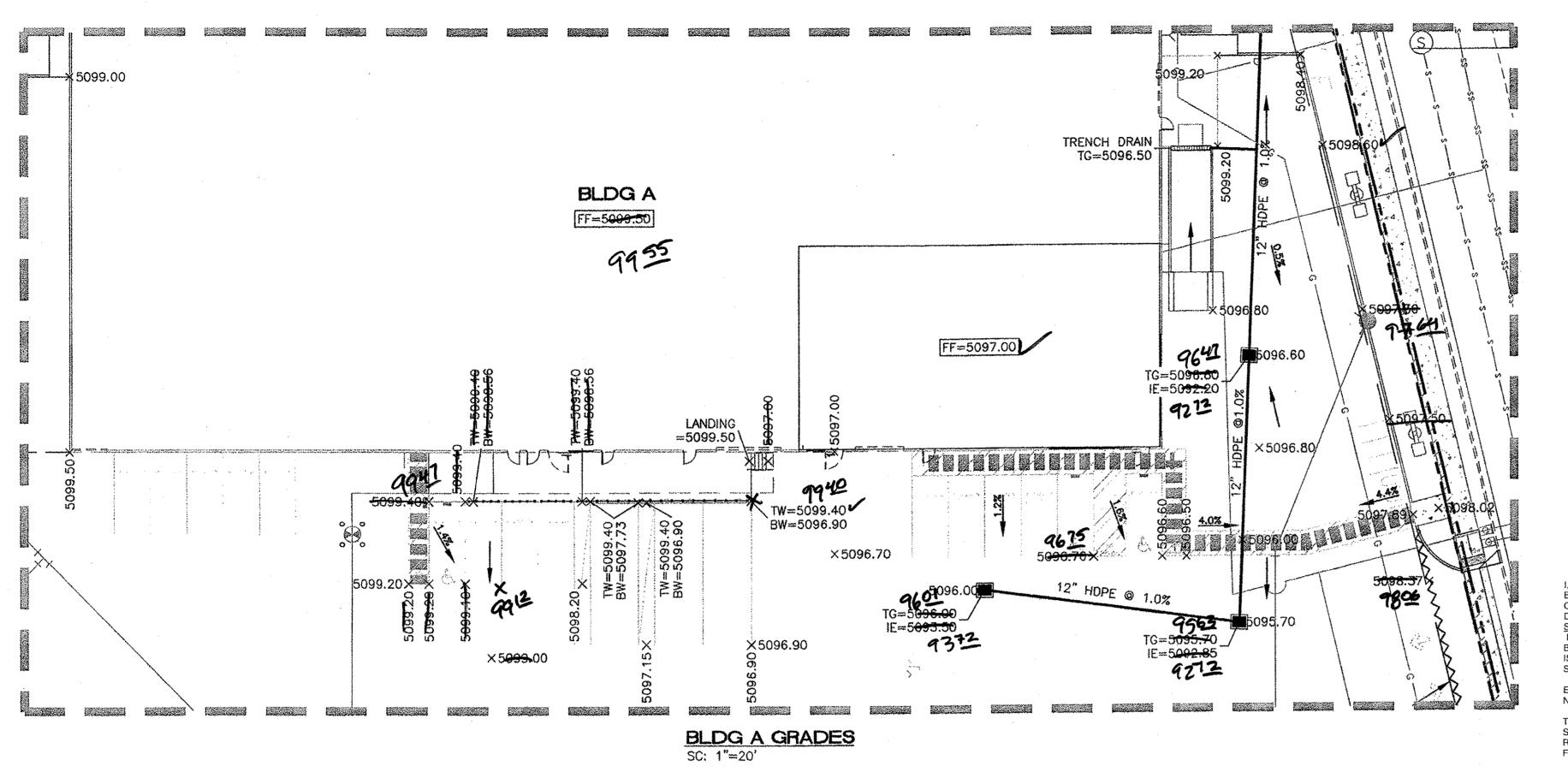
DATE

SHEET #

GR-1

RONALD R. BOHANNAN P.E. #7868

ENGINEER'S



BLDG B FF=5<del>097.50</del> 97 44

BLDG B GRADES
SC: 1"=20'

### **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.
- 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.

### CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

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

I, RON 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 \_1/30/17 THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY JOHN STEVEN SANDOVAL NMPS #\_12351\_OF THE FIRM CONSTRUCTION SURVEYING SERVICES INC. SURVEYING SERVICES INC.

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 10 M 10 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 PERMENANT CERTIFICATE OF OCCUPANCY

## NONE TAKEN

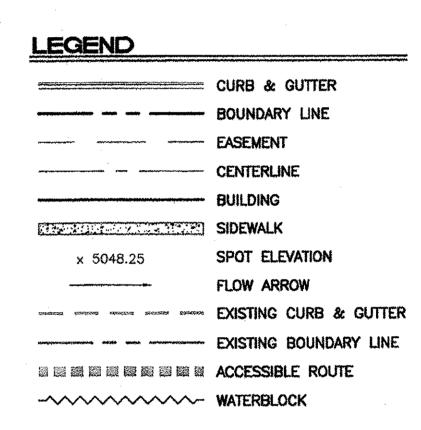
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF THIS RECURACY BEFORE USING IT FOR ANY OTHER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

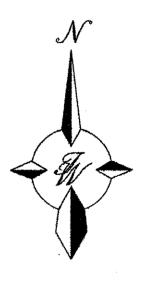
#### RONALD R. BOHANNAN, NMPE # 7868

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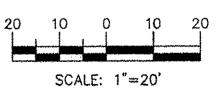
NORTH ENTRANCE
SC: 1"=10'

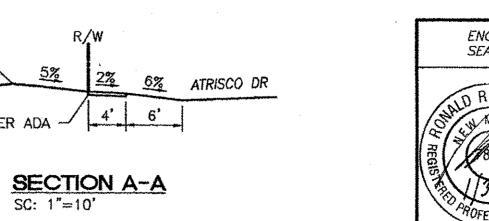






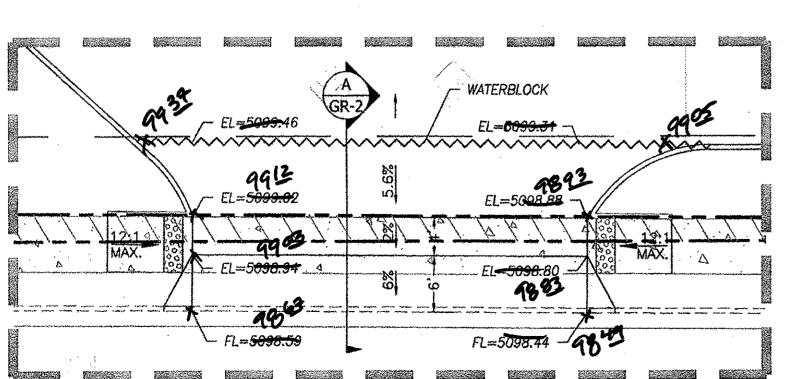


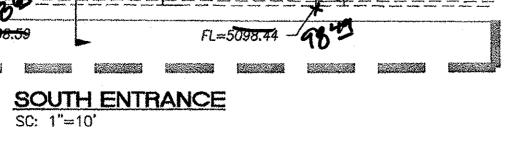


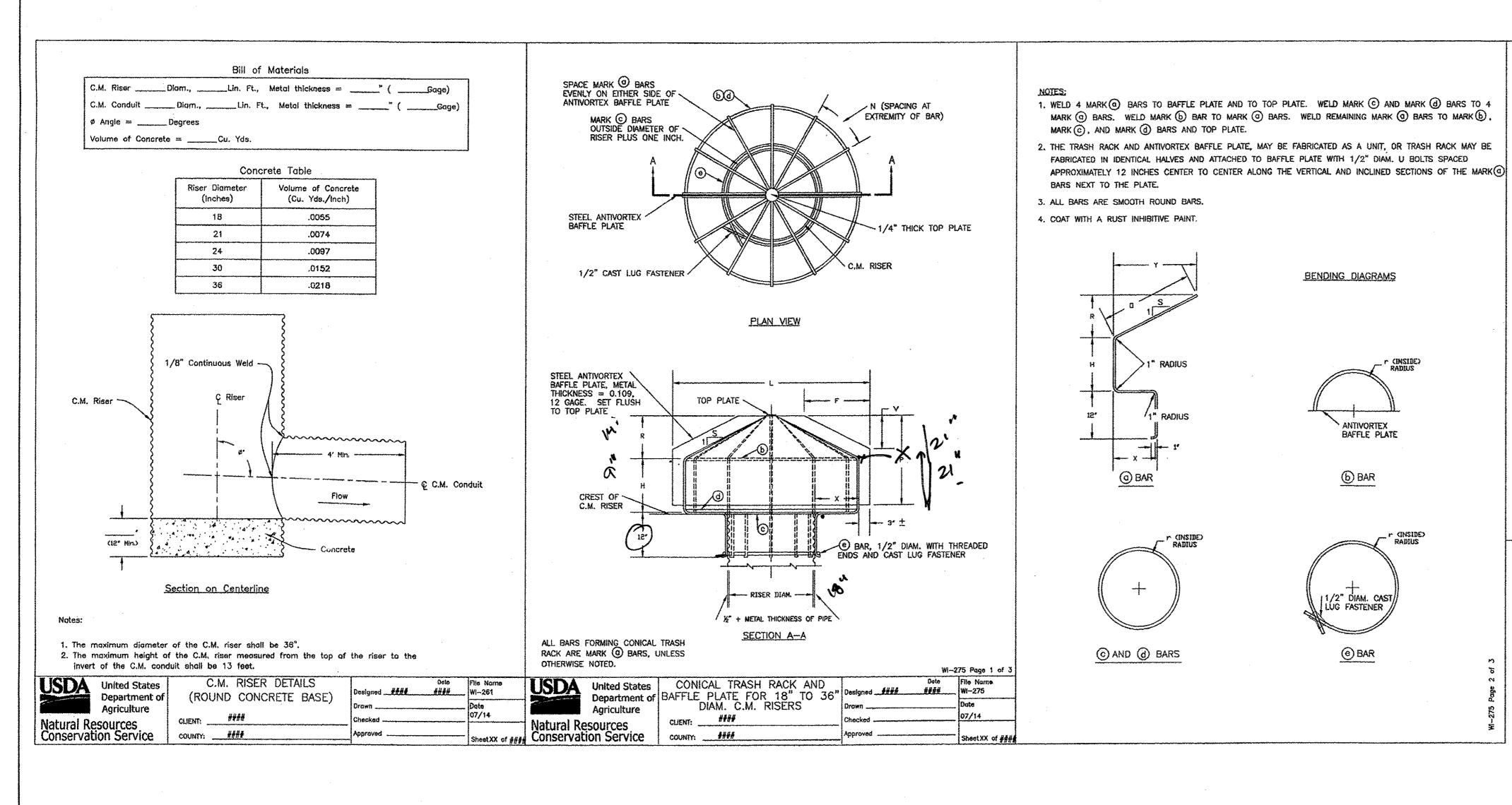


0.87' R/W WATER —	ENG SEA
SW PER ADA 4' 6'	R WAR
SECTION A-A SC: 1"=10'	A POFE

ENGINEER'S SEAL	WEST BLUFF	DRAWN BY DY
NID R BONA	BUSINESS CENTER  GRADING AND	<i>DATE</i> 1/25/17
REGIS ROBERT HOW WEEK WAY CO STREET HOW WE WANT CO STREET HOW WE WAY CO STREET HOW WE WAY CO STREET HOW WE WANT CO STREET HOW WE WAY CO STREET HOW WE WAY CO STREET HOW WE WANT CO STREET HOW WE WAY CO STREET HOW WE WAY CO STREET HOW WE WANT CO ST	DRAINAGE PLAN	2016 <b>061</b> -GRB
868) WE		SHEET #
POFESSIONA	TIERRA WEST, LLC  5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109	GR-2
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	JOB # 2016061







4" WALL CAP TO	1 3
MATCH CMU COLOR — & TEXTURE	
TW-TOP OF WALL, ELEVATION PER PLAN	
	D. W.
8" CMU BLOCK. "LIGHT TAN"	BOND BEAM SEE NOTE 9
JOINT REINFORCEMENT SEE TABLE	WATER PROOFING (HENRY AQUA-BLOCK WB OR EQUAL)
GROUT SOLID	2-1/2" (8" WALLS)
DURO WALL EVERY OTHER COURSE	3" (12" WALLS) ———Y—BARS
4" WEEP HOLE	GRAVEL DRAIN W/
10' O.C.	GEOTEXTILE FABRIC
OPEN JOINTS	8888 HIGH, CONTINUOUS
- TOD 02/2/2	WALL LENGTH
FOOTING, ELEVATION	X-BARS
PER PLAN DOWELS	2-1/2" 3"
SEE NOTE 6	₩P.
	4:
<b>A</b>	· · · · · · · · · · · · · · · · · · ·
	4 4 4
3-1/2" 6	#5 BARS 12" O.C.
	1 6"   \
A	SEE NOTE 7
	3

Н	Α	В	T	Y-BARS	X-BARS
ftin.	in.	ft,—in.	in.		
2'-0" 2'-8" 3'-4" 4'-0" 4'-8" 5'-4" 6'-0"	8" 8" 8" 10" 12" 14" 16"	2'-0" 2'-0" 2'-4" 2'-8" 3'-4" 3'-10" 4'-8"	9" 9" 9" 9" 10" 12"	#4 @32" O.C. #4 @32" O.C. #4 @32" O.C. #4 @32" O.C. #5 @32" O.C. #6 @16" O.C. #6 @ 8" O.C.	#4 @24" O.C. #4 @24" O.C. #4 @24" O.C. #4 @18" O.C. #4 @18" O.C. #4 @12" O.C.

12 INCH	4 REIN	VFORCED	CONC	RETE MASONRY	WALL
Н	Α	В	T	Y-BARS	X-BARS
ftin.	in.	ftin.	in.		
5'-4" 6'-0" 6'-8" 7'-4" 8'-0" 8'-8"	14" 15" 16" 18" 20" 20"	3'-8" 4'-2" 4'-6" 4'-10" 5'-4" 5'-8"	10" 12" 12" 12" 12" 12"	#6 @18" O.C. #4 @16" O.C. #6 @24" O.C. #6 @16" O.C. #7 @18" O.C. #7 @16" O.C.	#4 @24" O.C. #4 @18" O.C. #5 @18" O.C. #5 @18" O.C. #6 @12" O.C. #6 @12" 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 ± 2.0%.

  3. BACK FILL AGAINST WALLS IS TO BE HAND-PLACED AND
- COMPACTED.
  4. ALL BARS ARE TO BE GRADE 60, ASTM 615.
- 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.

  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. 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".

RETAINING WALL DETAIL

Н	R	Х	Υ	S	0	TOTAL	NO.	N	L	Р	F	٧
INCHES	INCHES	INCHES	INCHES		INCHES	LENGTH	REQ'D	INCHES		INCHES	INCHES	INCHES
			I	18	DIAMETER	CORRUGATI	ED METAL	RISER		1	<u> </u>	<u> </u>
9	14-1/8	6	14-1/8		20	4'	10	11-7/16	3'	21	8	8
		<del></del>	<del></del>	21	" DIAMETER	CORRUGAT	ED METAL	RISER		-	<del></del>	
12	9-1/4	9	18-1/2	2	20-5/8	4' 6-5/8"	12	12-3/8	4'	18	12	- 6
	<del></del>	······································	***************************************	24	DIAMETER	R CORRUGAT	ED METAL	RISER		· · · · · · · · · · · · · · · · · · ·	<del>Musey Manus and the Control of the </del>	<del>}</del>
15	11-3/8	12	22-3/4	2	25-3/8	5' 5-3/8"	12	14-13/16	4'-6"	24	18	9
		***************************************	· · · · · · · · · · · · · · · · · · ·	30	DIAMETER	CORRUGAT	ED METAL	RISER		·	A	<del></del>
18	9-1/2	15	28-1/2	3	30	6' 4"	14	15-13/16	6'	24	21	7
	· · · · · · · · · · · · · · · · · · ·		<del>Ben, was a coperative about a special</del>	36	DIAMETER	CORRUGAT	ED METAL	RISER		<del>\$</del>	7	<del></del>
21	12-1/2	21	37-5/8	3	39-1/2	7'10-1/2"	16	17-5/16	7'-6"	30	30	10

TABLE OF DIMENSIONS AND QUANTITIES

ANTIVORTEX BAFFLE PLATE

(a) BARS 5/8" DIAMETER

				TABL	E OF DIA	MENSION:	S AND QU	ANTITIES						
(b) BARS 5/8" DIAMETER			© BAR	RS 5/8" D	IAMETER	d BA	RS 5/8" DI	AMETER	@ BAF	es 5/8" D	IÁMETER	TOP PLATE		
NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	DIAM.		
REQ'D.	INCHES	INCHES	REQ'D	INCHES	INCHES	REQ'D	INCHES	INCHES	REQ'D	INCHES	INCHES	INCHES		
··	**************************************	L., .,		18"	DIAMETER	CORRUG	ATED METAL	RISER	-	<u> </u>				
2	14-5/16	46	1	10	62-10	1	14-5/16	92	1	10-1/4	73	3		
				21"	DIAMETER	CORRUG	ATED METAL	RISER	*					
2	18-13/16	60	1	11-1/2	72-1/4	1	18-13/16	120	1	11-3/4	82-1/2	3-1/2		
				24"	DIAMETER	CORRUG	ATED METAL	RISER						
2	23-5/16	74	4	13	81-8	1	23-5/16	148	1	13-1/4	91-1/2	3-1/2		
				30"	DIAMETER	CORRUG	ATED METAL	RISER	, , , , , , , , , , , , , , , , , , ,					
2	29-5/16	93	1	16	100-1/2	1	29-5/16	186	1	16-1/4	111	4		
				36"	DIAMETER	CORRUG	ATED METAL	RISER						
2	38-3/8	121-1/2	1	19	119-5	1	38-3/8	243	1	19-1/4	129	4		

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

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#### EXCEPTIONS: NONE TAKEN

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RONALD R. BOHANNAN, NMPE # 7868

DATE



ENGINEER'S SEAL	WEST BLUFF	DRAWN BY
IN R BOW	BUSINESS CENTER  GRADING AND	<i>DATE</i> 1/30/17
THE WEST CONTRACTOR	DRAINAGE DETAILS	2016061-GRB
7868 X 833		SHEET #
HO MOFESSIONALE	5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109	GR-3
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	јов # 2016061