CONSTRUCTION PLANS FOR ENTERTAINMENT FACILITY WATER LINE EXTENSION

CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO JULY, 2018



APPROVED RECORD DRAWINGS				
City Inspector Arlene Sandoval				
Contractor	Franklins Eartmoving Inc.			
Construction Engineer	Muhanned Adeeb			
Date	8/20/2019			

INDEX TO DRAWINGS

- 1. TITLE SHEET
- PLAT
- GRADING PLAN (REFERENCE ONLY)
- GRADING DETAILS
- MASTER UTILITY PLAN (REFERENCE ONLY)
- WATERLINE PLAN AND PROFILE
- TRACER WIRE DETAILS
- TRACER WIRE DETAILS

I, BRIAN J. MARTINEZ, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND 'AS-BUILT' SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS 'AS-BUILT' INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORDED DRAWINGS.

TIERRA WEST. LLC

5571 MIDWAY PARK PLACE NE

(505) 858-3100

www.tierrawestllc.com

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, 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 asbuilt construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey

information provided by Brian Martinez, of Cartesian Surveys, Inc., NMPS number 18374

UTILITY CONTACT INFORMATION

ROBERT MARTINEZ-COMCAST 761-6221 ROBERT_MARTINEZ@CABLE.COMCAST.COM

TONY MACHAC-PNM ELECTRIC 241-3404 TONY.MACHAC@PNM.COM

JOE HERRERA-NEW MEXICO GAS COMPANY 891-6995 JOE.HERRERA@NMGCO.COM

ROSA KNIFFIN-QWEST 245-6374 ROSARITO.KNIFFIN@QWEST.COM

DAVID GUTIERREZ-ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY 289-3307 DGGUTIERREZ@ABCWUA.ORG

RECORDATION INFORMATION RECORD DOC NO DATE RECORDED TYPE OF EASEMENT SHEET NO 20' PUBLIC WATERLINE 12018 093080 5 OF 7 EASEMENT

RECORD DRAWINGS Manche Barth Farr NOTICE TO CONTRACTORS

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 . TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (811) FOR LOCATION OF EXISTING UTILITIES. 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 5. TRAFFIC CONTROL PLAN (TCP). THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AND OBTAIN APPROVAL OF A TRAFFIC CONTROL PERMIT PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON TH PROJECT. THE CONTRACTOR SHALL SUBMIT THE PERMIT TO THE PROJECT MANAGER FOR REVIEW AND BE REQUIRED TO SUBMIT THE FOLLOWING: TRAFFIC CONTROL PLAN THAT SHALL REFLECT THE CONTRACTOR'S PROPOSED CONSTRUCTION PHASIN THESE PLANS MUST BE PREPARED AND SEALED BY A REGISTERED NEW MEXICO PROFESSIONAL ENGINEER THE PLANS SHALL BE REVIEWED AND APPROVED BY THE DISTRICT THREE TRAFFIC ENGINEER. THE NMDOT'S DISTRICT THREE TRAFFIC SECTION RESERVES THE RIGHT TO MAKE ANY CHANGES T TRAFFIC CONTROL PLAN TO ADDRESS SITE SPECIFIC ITEMS THAT ARE NOT SHOWN ON THE PLANS. THE NMDOT ALSO RESERVES THE RIGHT TO ADD DEVICES AND/OR SIGNS TO THE APPROVED PLAN IF IT IS DETERMINED BY THE TRAFFIC ENGINEER THAT THE SIGNS AND/OR DEVICES WOULD BE REQUIRED TO ADDRESS SAFETY CONCERNS WITHIN OR IN ADVANCE OF THE WORK ZONE. ANY CHANGES TO THE PLANS WHICH RESULT IN ADDITIONAL SIGNS AND/OR DEVICES WILL BE CONSIDERED INCIDENTAL TO ITEM 61800-"TRAFFIC CONTROL MANAGEMENT". THE TRAFFIC CONTROL PERMIT ALONG WITH THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE NMDOT DISTRICT 3 TRAFFIC SECTION AT LEAST 10 WORKING DAYS PRIOR TO THE PRE CONSTRUCTION MEETING. THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED ON 11X17 SHEETS. NO HAND DRAFTED TRAFFIC CONTROL PLANS WILL BE ACCEPTED. A COPY OF THE TRAFFIC CONTROL PERMIT MAY BE OBTAINED AT THE DISTRICT THREE OFFICE OR BY CONTACTING THE DISTRICT THREE TRAFFIC ENGINEER AT (505) 798-6632 OR ANTONIO.JAMARILLO@STATE.NM.US. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH HOT THERMOPLASTIC ONLY REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS, CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR 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 CONTRACTORS EXPENSE. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE, CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY. 9. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION, FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE 10. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK, ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX. 11. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P AND COA STD DWG 2465. 12. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8. 13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY COA AND NMDOT. THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN S CONSTRUCTED. IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE ALBUQUERQUE, NEW MEXICO 87109 OF CURB AND GUTTER. ALL STORM DRAINAGE FACILITIES SHALL BE COM-PLETED PRIOR TO FINAL ACCEPTANCE. REV SHEETS CITY ENGINEER DATE USER DEPT. DATE USER DEPT. ENGINEERS STAMP & SIGNATURE APPROVALS *********** ENGINEER DRC Chairman APPROVED FOR CONSTRUCTION Transportation ABCWUA Hydrology Traffic Engineer Constr. Mngmt.

DRB NO. 18DRB-70062

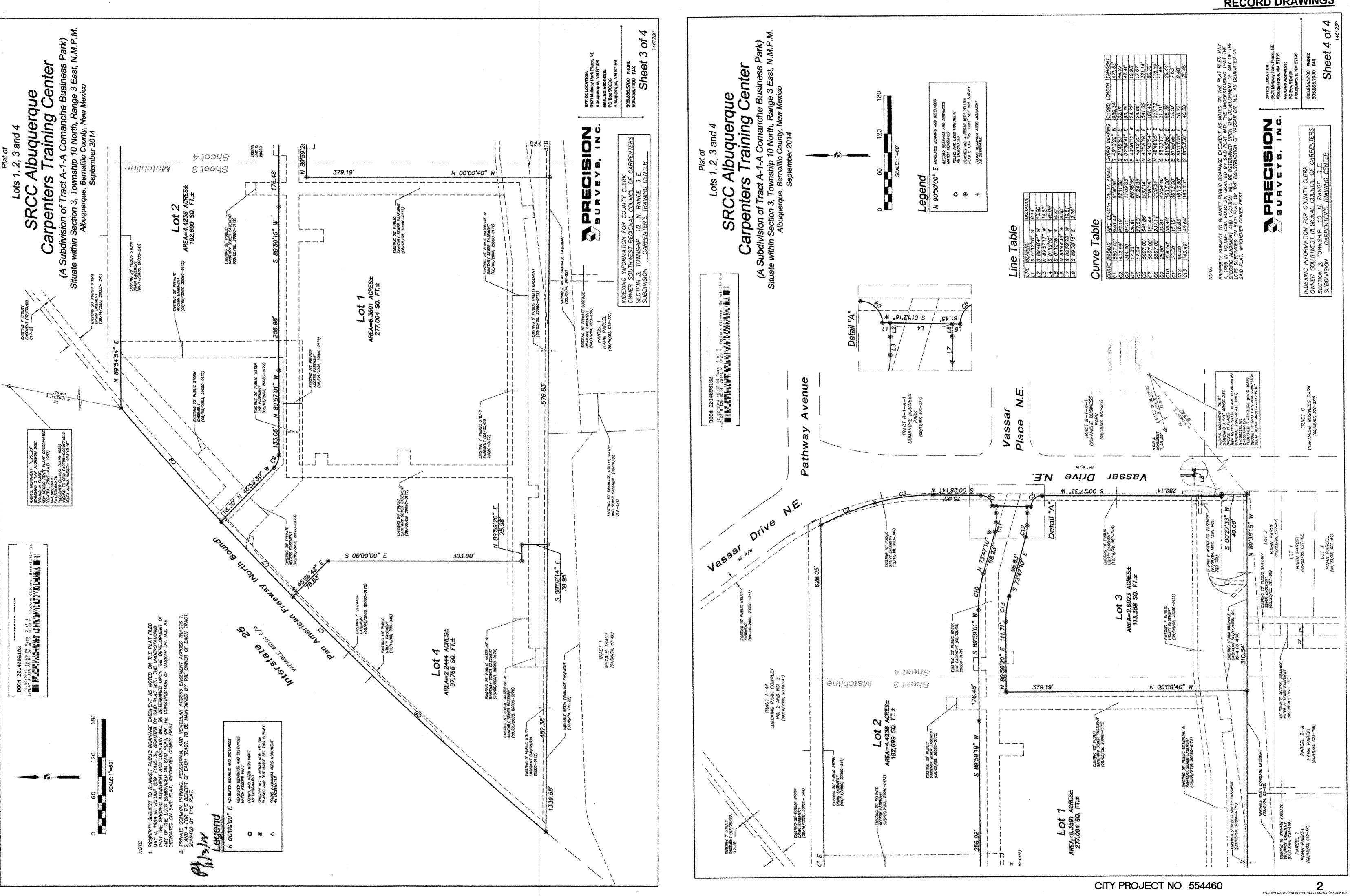
A POFESSION A PROFESSION A PROF	
OFESSION	

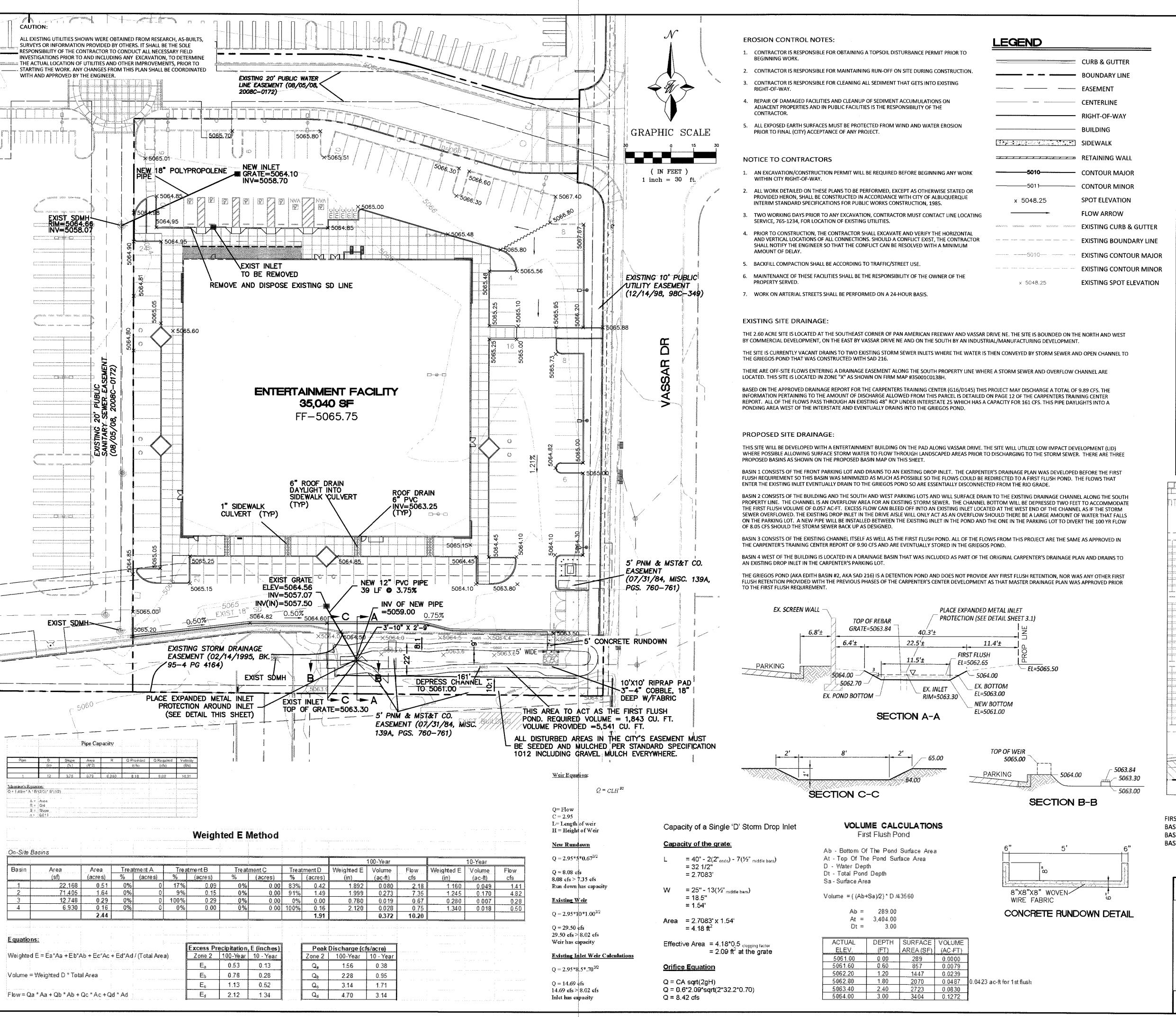
P.E. #7868

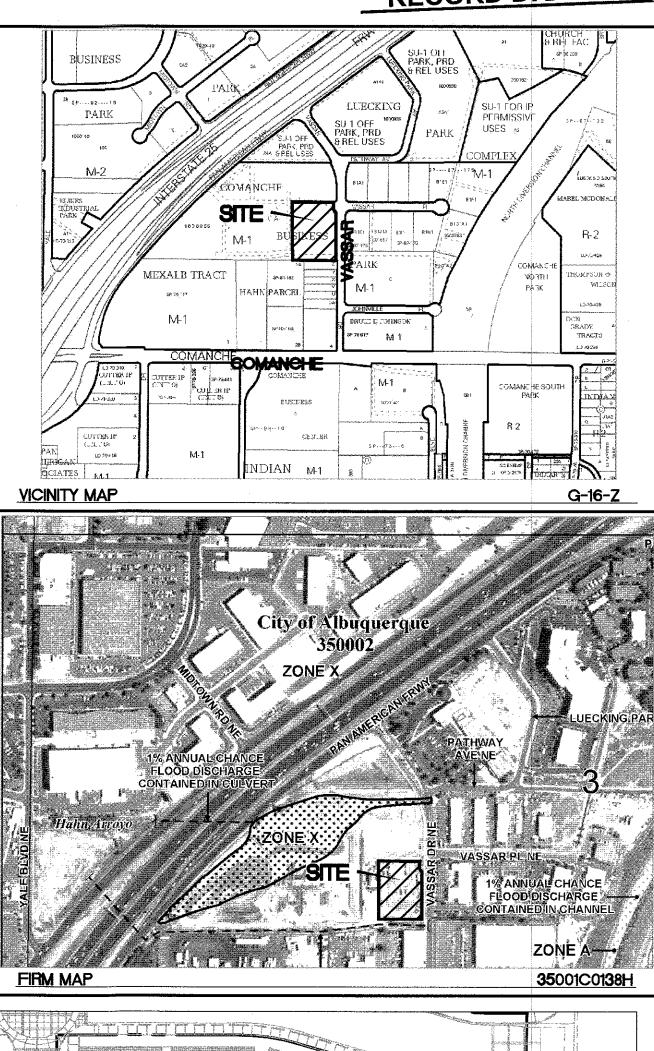
Berna. Cont. Public Works ____ CITY PROJECT NO. RONALD R. BOHANNAN 554460

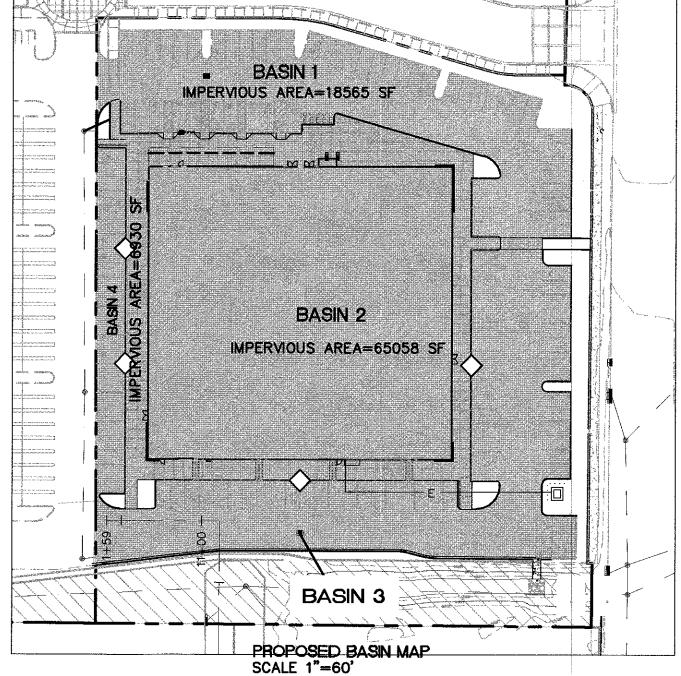
SHEET OF 7

City Engineer









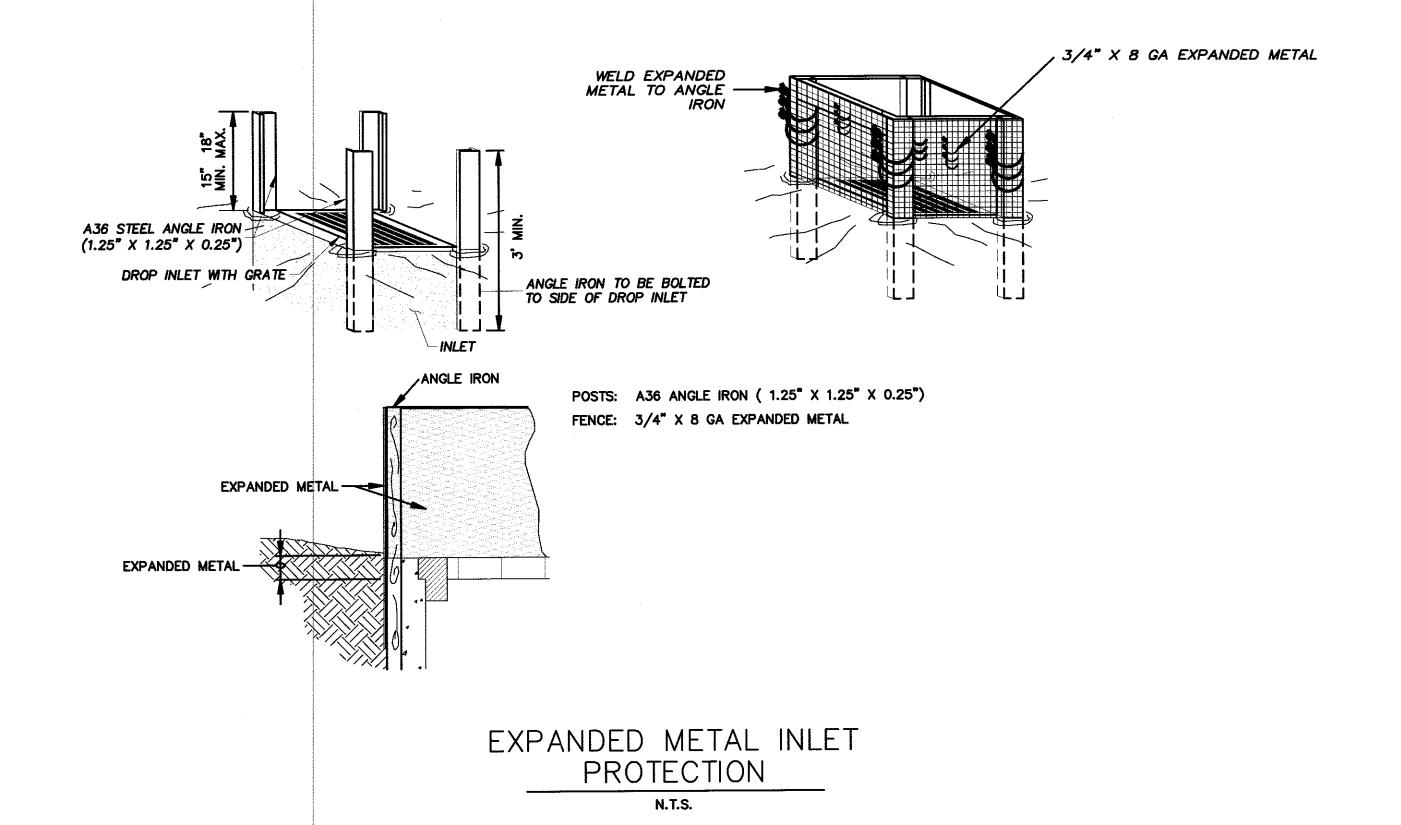
FIRST FLUSH CALCULATION
BASIN 1: 18385 SF X 0.34"/12"=521 CF=0.012 AC-FT
BASIN 2: 65058 SF X 0.34"/12"=1843 CF=0.042 AC-FT
BASIN 4: 6930 sf X 0.34"/12"=196 CF = 0.0045 AC-FT

BASINS 1 AND 4 ARE COVERED BY WAIVER FOR A TOTAL OF 25,305 SF.

IN 4: 6930 sf X 0.34"/12"=196 CF = 0.0045 AC-FT

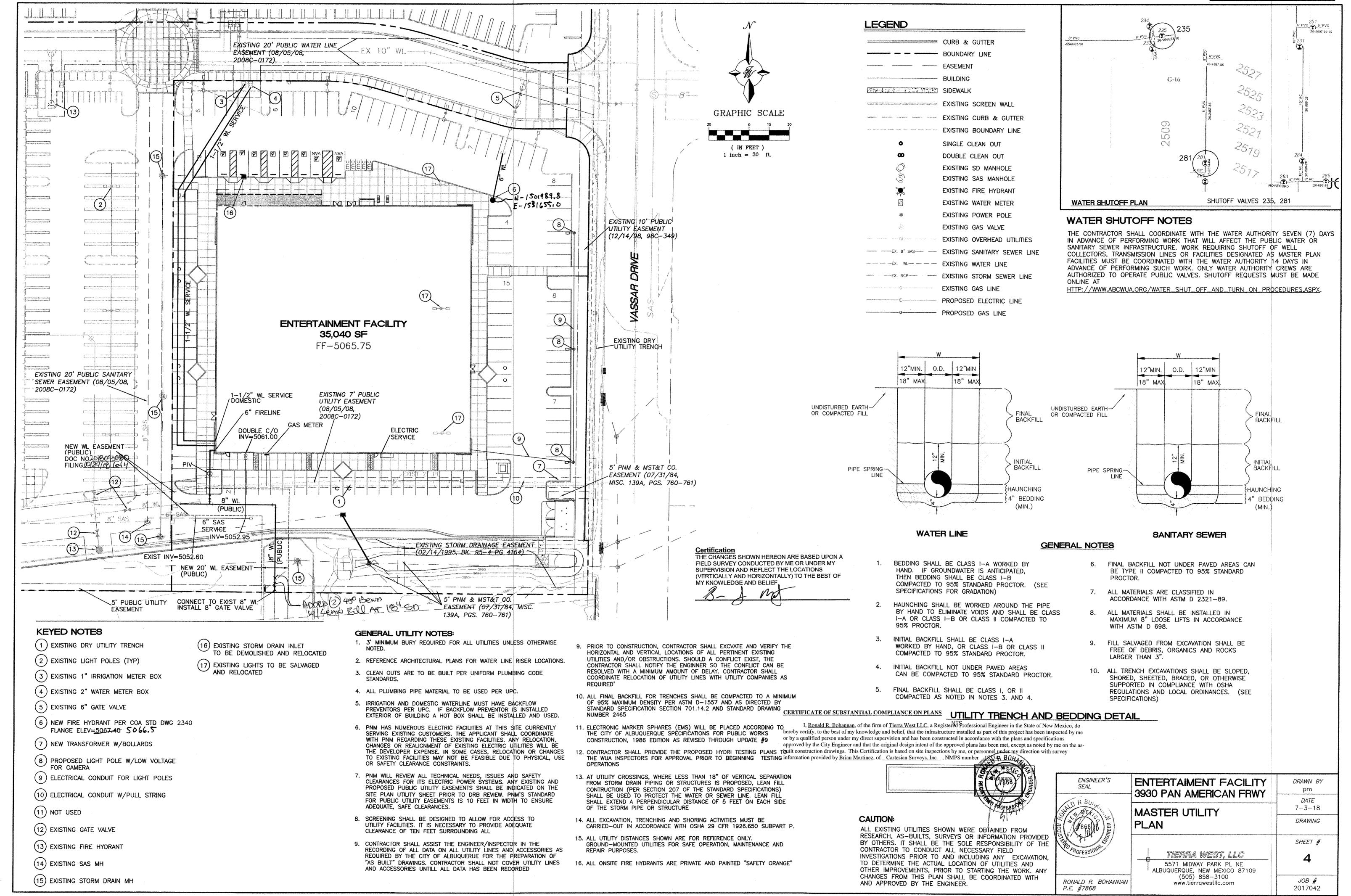
BASIN 2 IS ONLY BASIN DIRECTED TO FIRST FLUSH POND: 65,058 SF FOR A TOTAL OF 1,843 CF OF STORAGE.

ENGINEER'S SEAL	ENTERTAIMENT FACILITY 3930 PAN AMERICAN FRWY	DRAWN BY
ON MEXICO Z	GRADING PLAN	<i>DATE</i> 5–14–18
(7868))		DRAWING
PROPERTY OF THE SERVICE OF THE SERVI		SHEET #
5/31/2018	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	3
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2017042

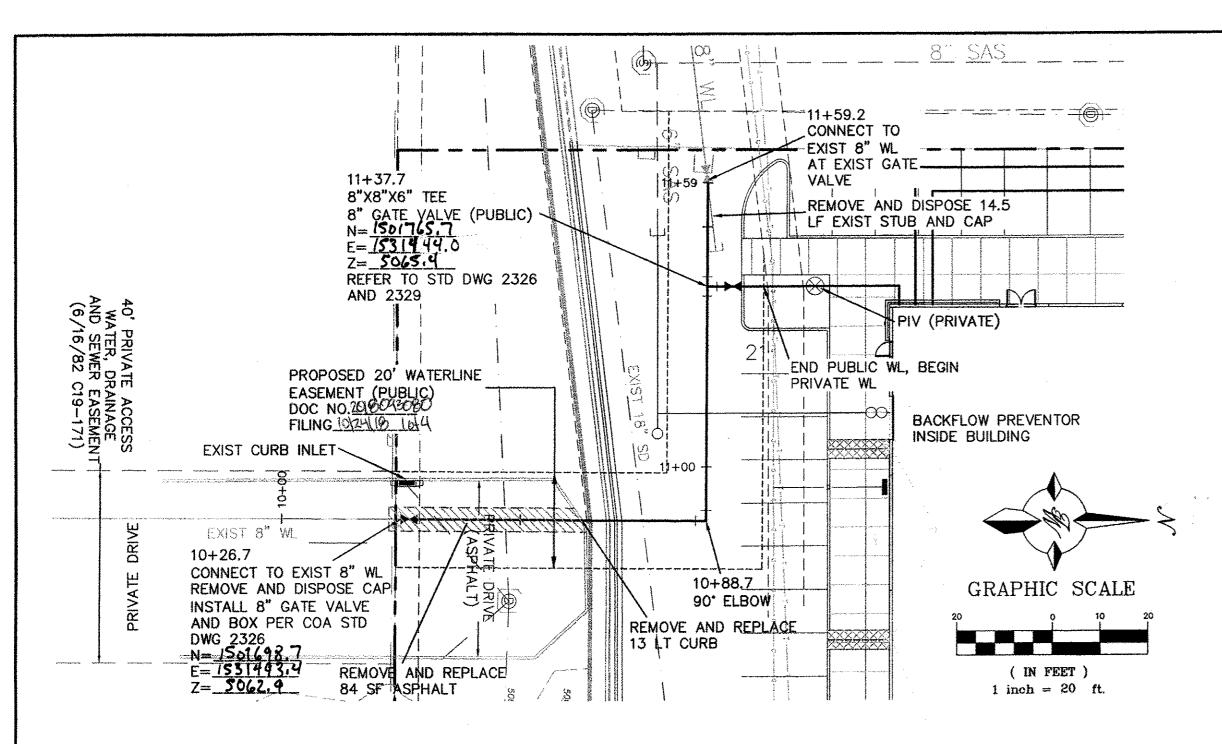


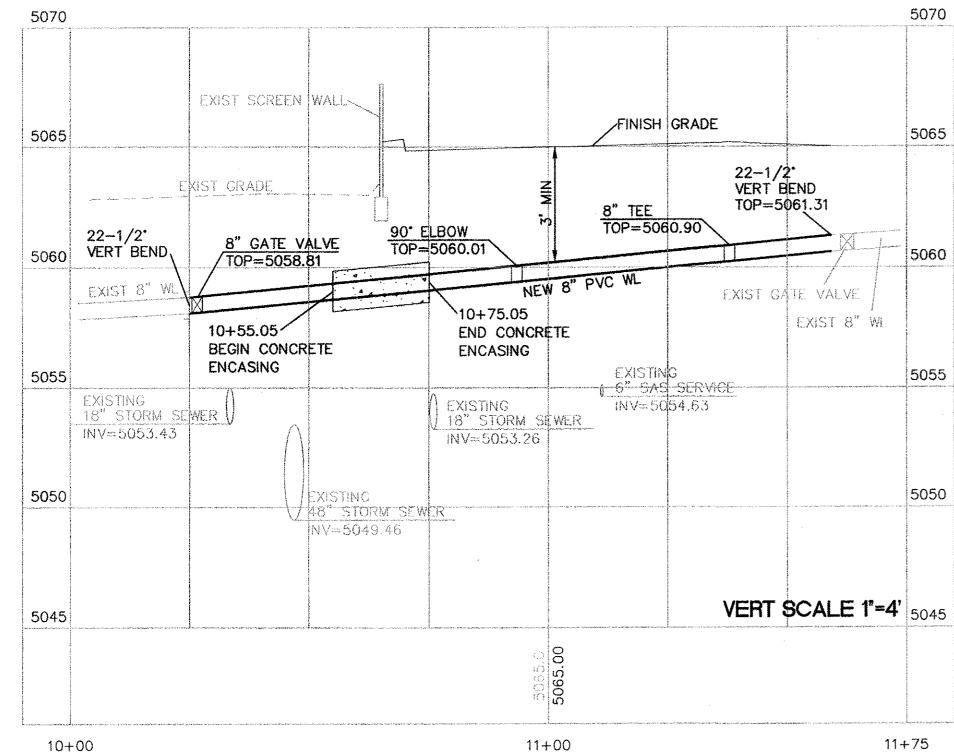
FOR REFERENCE ONLY

ENGINEER'S SEAL	ENTERTAIMENT FACILITY 3930 PAN AMERICAN FRWY	<i>DRAWN BY</i> pm
TRAID R. BOHANA WMEXICO 7868	GRADING DETAILS	DATE 5–14–18 DRAWING
5/31/2018	5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	SHEET # 3.1
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2017042



d REGIST





GENERAL UTILITY NOTES:

- 1. 3' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE
- 2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.

3. CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE

- STANDARDS.
- 4. ALL PLUMBING PIPE MATERIAL TO BE USED PER UPC.
- 5. IRRIGATION AND DOMESTIC WATERLINE MUST HAVE BACKFLOW PREVENTORS PER UPC. IF BACKFLOW PREVENTOR IS INSTALLED EXTERIOR OF BUILDING A HOT BOX SHALL BE INSTALLED AND USED.
- 6. PNM HAS NUMEROUS ELECTRIC FACILITIES AT THIS SITE CURRENTLY SERVING EXISTING CUSTOMERS. THE APPLICANT SHALL COORDINATE WITH PNM REGARDING THESE EXISTING FACILITIES. ANY RELOCATION CHANGES OR REALIGNMENT OF EXISTING ELECTRIC UTILITIES WILL BE THE DEVELOPER EXPENSE. IN SOME CASES, RELOCATION OR CHANGES TO EXISTING FACILITIES MAY NOT BE FEASIBLE DUE TO PHYSICAL, USE OR SAFETY CLEARANCE CONSTRAINTS.
- 7. PNM WILL REVIEW ALL TECHNICAL NEEDS, ISSUES AND SAFETY CLEARANCES FOR ITS ELECTRIC POWER SYSTEMS. ANY EXISTING AND PROPOSED PUBLIC UTILITY EASEMENTS SHALL BE INDICATED ON THE SITE PLAN UTILITY SHEET PRIOR TO DRB REVIEW. PNM'S STANDARD FOR PUBLIC UTILITY EASEMENTS IS 10 FEET IN WIDTH TO ENSURE ADEQUATE, SAFE CLEARANCES.
- 8. SCREENING SHALL BE DESIGNED TO ALLOW FOR ACCESS TO UTILITY FACILITIES, IT IS NECESSARY TO PROVIDE ADEQUATE CLEARANCE OF TEN FEET SURROUNDING ALL
- 9. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF ALL DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERUE FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTILL ALL DATA HAS BEEN RECORDED

- 10. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINNER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED'
- 11. FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATION SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2465
- 12. ELECTRONIC MARKER SPHARES (EMS) WILL BE PLACED ACCORDING TO THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9
- 13. CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRI TESTING PLANS TO THE WUA INSPECTORS FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS
- 14. AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONTRUCTION (PER SECTION 207 OF THE STANDARD SPECIFICATIONS) SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE
- 15. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- 16. ALL UTILITY DISTANCES SHOWN ARE FOR REFERENCE ONLY. GROUND-MOUNTED UTILITIES FOR SAFE OPERATION, MAINTENANCE AND
- 17. ALL ONSITE FIRE HYDRANTS ARE PRIVATE AND PAINTED "SAFETY ORANGE"

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:

GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES

TEST PRESSURE: 150 PSI TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL

BACKFILL LIGHTLY CONSOLIDATED 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

RES	TRAINE	O JOINT	LENG	THS FO	R TEES	S*
0175	LENGTH ALONG RUN**					
SIZE	10'	8'	6'	4'	2'	0,
12x12x12	61	68	76	83	90	98
12x12x10	39	48	56	65	74	83
12x12x8	15	26	37	48	59	70
12x12x6	1	1	9	24	38	53
12x12x4	1	1	1	1	16	37
10x10x10	46	54	61	68	76	83
10x10x8	25	34	43	52	61	70
10x10x6	1	5	17	29	41	53
10x10x4	1	1	1	2	20	37
8x8x8	34	42	49	56	63	70
8x8x6	6	15	25	34	43	53
8x8x4	1	1	1	10	24	37
6x6x6	7	24	31	39	46	53
6x6x4	1	1	6	17	27	37

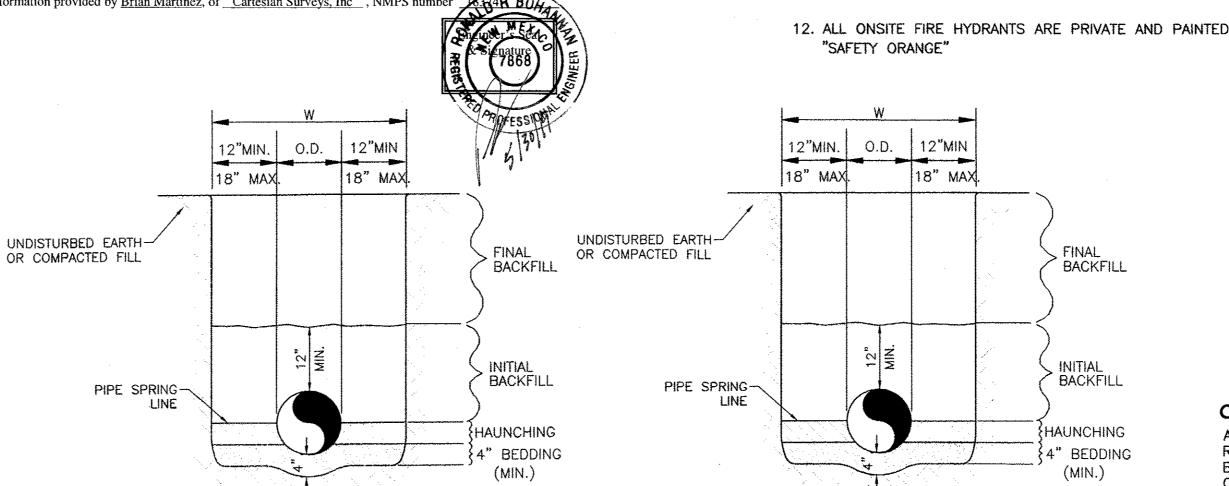
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

				······································	
RESTRA BENDS,	NED JO	OINT LE S, AND	NGTHS FO	OR HORIZ	ZONTAL H SIDE)
		HORIZON	TAL BENDS		VALVES
SIZE	90*	45*	22-1/2	11-1/4	DEAD EN
12	45	19	9	4	102
10	38	16	8	4	86
8	32	13	6	3	72
6	25	10	5	2	55
4	18	7	4	1	39
	L	<u> </u>	***************************************		

RESTRAINED JOINT LENGTHS FOR REDUCERS***							
	SIZE	L. SIDE	SIZE	L. SIDE			
	12x10	50	10x6	53			
	12x8	54	10x4	70			
	12x6	74	8x6	30			
	12x4	88	8x4	52			
	10x8	29	6x4	28			
***RESTRAINTS ONLY PLACED ON LARGE SIDE							

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, 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 asbuilt construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian Martinez, of Cartesian Surveys, Inc., NMPS number



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

TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE

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

RECALCULATED BY THE DESIGN ENGINEER PRIOR TO

DON'T USE

DON'T USE

DON'T USE

DON'T USE

GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES

BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

HORIZONTAL BENDS

45* | 22-1/2* | 11-1/4*

DEPTH OF BURY: 3.0' MINIMUM TO 6.0'

SAFETY FACTOR: 1.5 TO 1

TEST PRESSURE: 150 PSI

PIPE MATERIAL:

12 UPPER

10 UPPER

8 UPPER

6 UPPER

LOWER

LOWER

UPPER

LOWER

WATER LINE

GENERAL NOTES

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 95% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
- BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS C MIN COMPACTED TO 95% PROCTOR 3. INITIAL BACKFILL SHALL BE CLASS I-A

HAUNCHING SHALL BE WORKED AROUND THE PIPE

- WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
- 4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE COMPACTED TO 95% STANDARD PROCTOR.
- 5. FINAL BACKFILL SHALL BE CLASS I, OR II COMPACTED AS NOTED IN NOTES 3. AND 4.

6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE TYPE II COMPACTED TO 95% STANDARD

SANITARY SEWER

THE CHANGES SHOWN HEREON ARE BASED UPON A

(VERTICALLY AND HORIZONTALLY) TO THE BEST OF

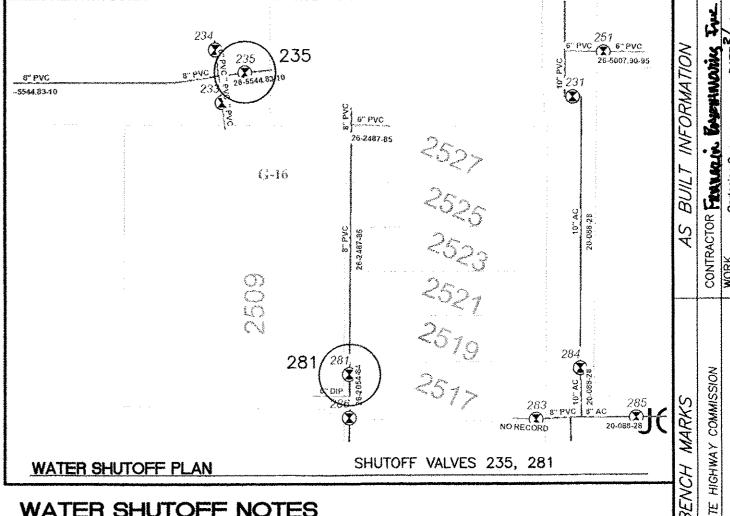
FIELD SURVEY CONDUCTED BY ME OR UNDER MY

SUPERVISION AND REFLECT THE LOCATIONS

MY KNOWLEDGE AND BELIEF.

- 7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- 10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED. SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

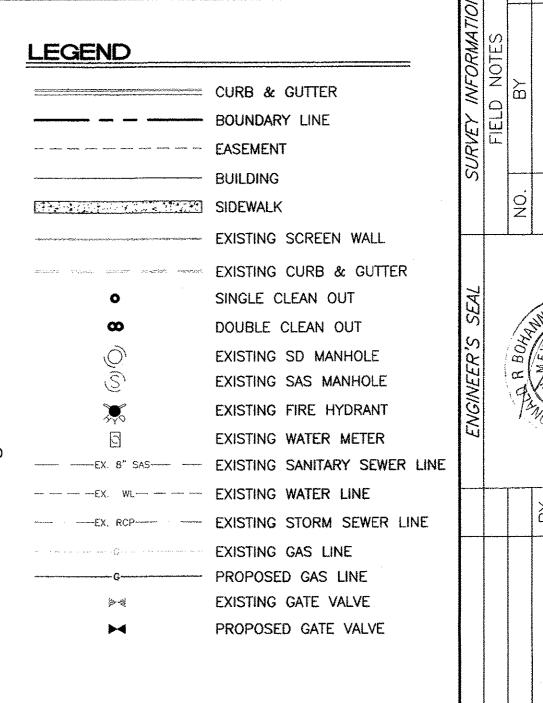
UTILITY TRENCH AND BEDDING DETAIL



WATER SHUTOFF NOTES

THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE

HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX.



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

TITLE:	ENTERTAIMENT FA 3930 PAN AMERICA	IP V CIL				
	CITY OF ALBUQUERQ PUBLIC WORKS DEPART					
	5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com		NO.		DESIGNED DRAWN B	DDAWN
_	TIERRA WEST, LLC		DATI	1 1		NAM
ND APPRO	IVED BY THE ENGINEER.		ш		E	

	. , (1 4) (1415	II /	71 4 1			
OCT 2 5 2018	CITY ENGINEER AF		GN UPDATE	MO./DAY/YR.	MO./DAY/	Ϋ́R
DESIGN REVIEW COMMITTEE	CITY ENG		LAST DESIGN			
TITY PROJECT NO. 55446	0	ZONE MAI		SHEET 5	OF 7	

