

CONSTRUCTION PLANS FOR
MADRID FIRE SUPPRESSION SYSTEM IMPROVEMENTS
NM HIGHWAY 14
SANTA FE COUNTY, NEW MEXICO
MAY, 2025



- NOTE**
- 1. ALL IMPROVEMENTS WITHIN NMDOT RIGHT OF WAY SHALL ADHERE TO THE NMDOT 2014 EDITION OF HIGHWAY AND BRIDGE CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS. IMPROVEMENTS RELATING TO TERRAIN MANAGEMENT MUST ALSO COMPLY WITH SECTION 7.17 OF THE SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE.
 - 2. IMPROVEMENTS ASSOCIATED WITH THIS PROJECT DO NOT MEET THE DEFINITION OF A PUBLIC WATER SYSTEM.

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TERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrowestllc.com

REV	SHEETS	COUNTY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
						APPROVED FOR CONSTRUCTION	
RONALD R. BOHANNAN P.E. #7868		01-17-25		PROJECT NO. EMNRD-MMD-2025-01		SHEET 1 OF 16	

5571 Midway Park Place NE
Albuquerque, NM 87109

Phone: 505-858-3100
Fax: 505-858-1118

1. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2014 NMDOT SPECS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND THE SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE CHAPTER 7.17 FOR TERRAIN MANAGEMENT. THESE CODES WILL BE REFERRED TO HEREAFTER AS "STANDARD SPECIFICATIONS. SEE NOTE ON SHEET 3.

3. CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

5. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR PROJECT MANAGER) NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE COUNTY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. IF THE COUNTY SURVEYOR DETERMINES THAT THE LOCATION OF ANY SURVEY MONUMENT IS IN DUBIOUS, CONTRACTOR AND SHALL NOTIFY THE COUNTY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE COUNTY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED LOCATION OF ANY SURVEY MONUMENT, THE COUNTY 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.

7. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY NMDOT AND SANTA FE COUNTY FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

11. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS SHOWN. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ANY SUCH COSTS INCURRED.

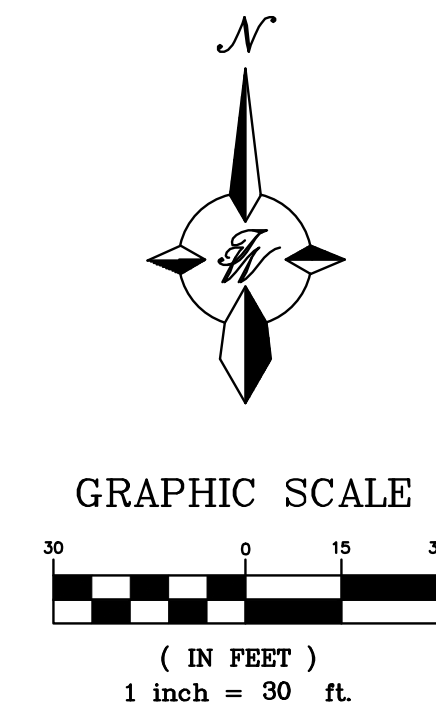
12. ALL NMDOT MONUMENTS MUST BE PRESERVED. IF AN NMDOT MONUMENT IS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS PLEASE CONTACT NMDOT FOR GUIDANCE

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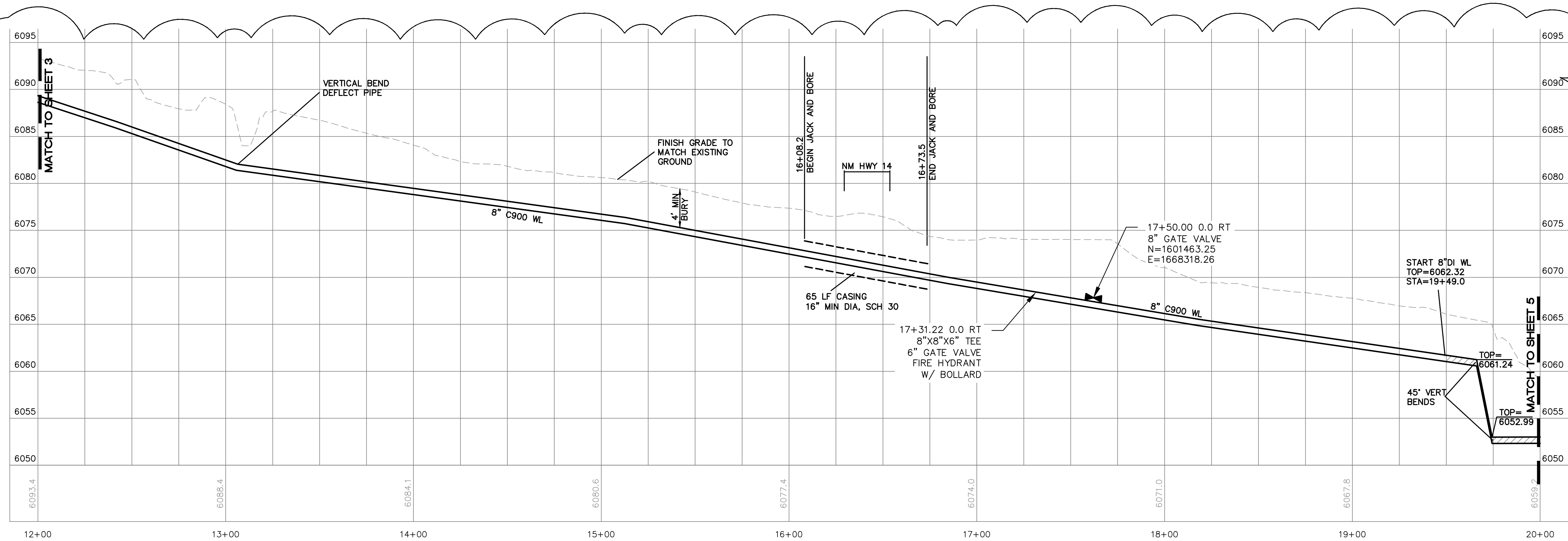
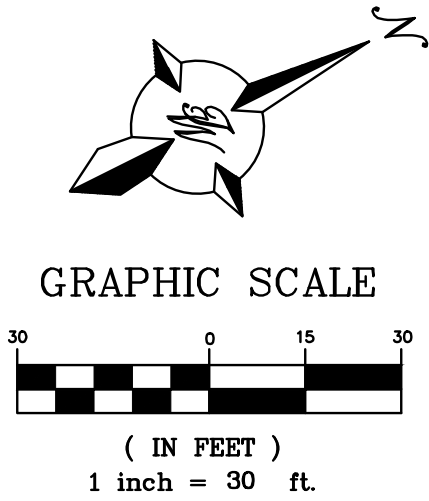
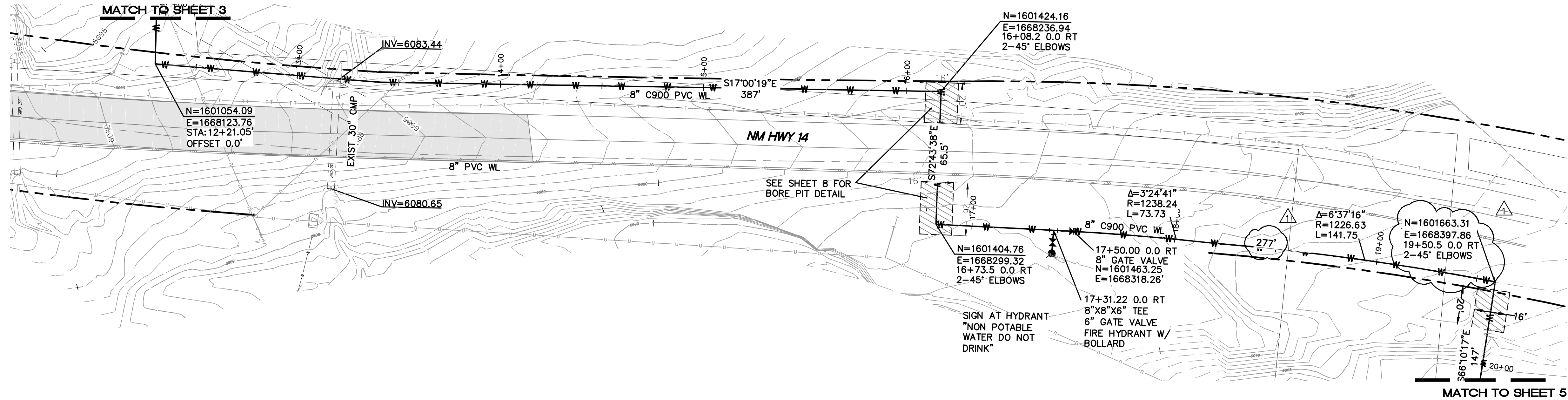
TITLE: **MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**
GENERAL NOTES

PROJECT NO. EMNRD-MMD-2025-01	ZONE MAP NO. —	SHEET 2	OF 16
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Z:\2023\2023094 Madrid Water Construction\2023094-MMD.dwg, Nov 20, 2025, 11:17am



- LEGEND**
- BOUNDARY LINE
 - EXISTING EDGE OF PAVEMENT
 - EXISTING POWER POLE
 - ⊙ EXISTING WATER METER
 - U— EXISTING OVERHEAD POWER LINE
 - T— EXISTING UNDERGROUND TELEPHONE LINE
 - ← EXISTING GUY ANCHOR
 - EASEMENT
 - W—W— PROPOSED 8" WATERLINE

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.

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
STA 12+00 TO STA 20+00

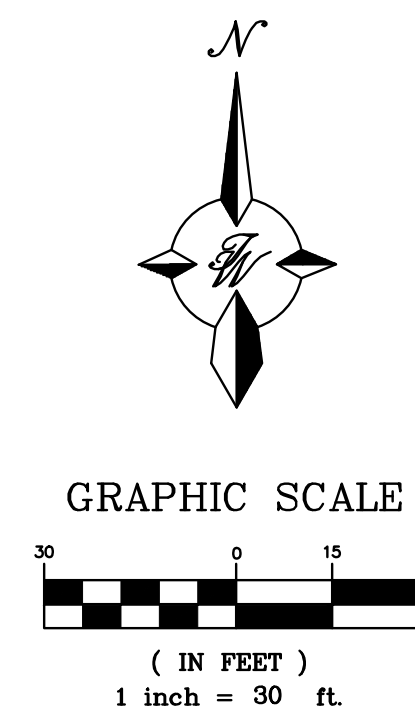
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO.
EMNRD-MMD-2025-01

ZONE MAP NO.
—

SHEET
4 OF **16**

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
 01/17/25			FIELD NOTES				CONTRACTOR	
			NO.	BY	DATE			WORK
								INSPECTOR'S
								ACCEPTANCE BY
								DATE
DESIGN							FIELD VERIFICATION BY	
							DATE	
							DRAWINGS	
							CORRECTED BY	
							DATE	
DESIGNED BY: JN			DATE: JANUARY 2025				MICRO-FILM INFORMATION	
DRAWN BY: RMG			DATE: JANUARY 2025				RECORDED BY	
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS			JOB NO.: 2023094				DATE	
CHECKED BY: RRB			DATE: JANUARY 2025				NO.	



	BOUNDARY LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING POWER POLE
	EXISTING WATER METER
	EXISTING OVERHEAD POWER LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING GUY ANCHOR
	EASEMENT
	PROPOSED 8" WATERLINE

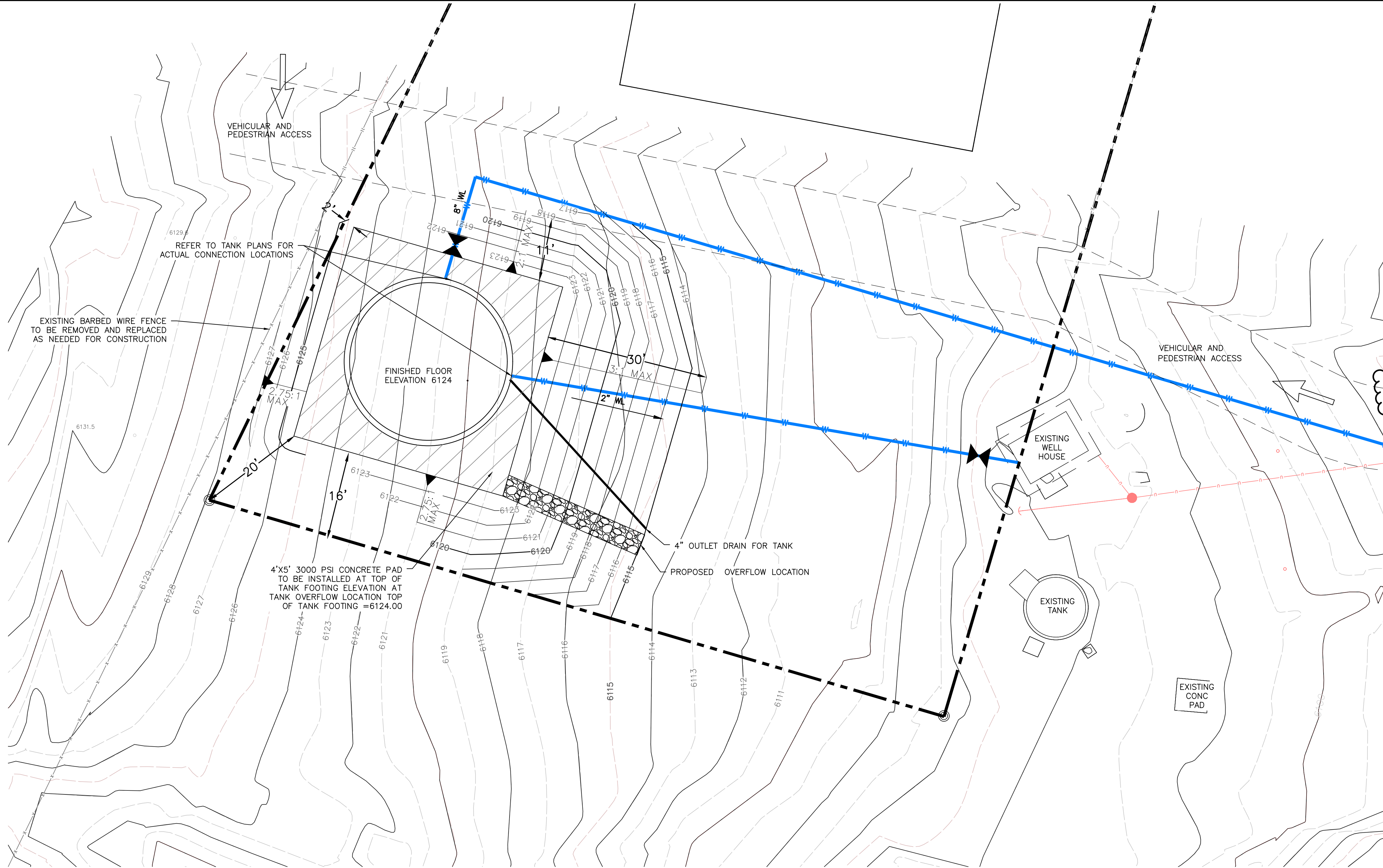
1. IF JOINTS ARE REQUIRED FOR THE SEGMENT OF PIPE UNDER THE ARROYO, BUTT FUSION WILL BE REQUIRED AT JOINTS.
2. IT WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR TO DECOMMISSION AND ABANDON THE EXISTING FIRE SUPPRESSION LINE IN PLACE.

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.



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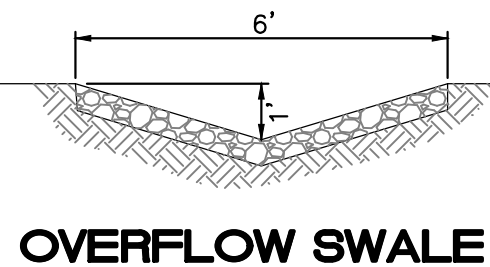
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- LEGEND**
- BOUNDARY LINE
 - EASEMENT
 - CENTERLINE
 - RIGHT-OF-WAY
 - BUILDING
 - CONTOUR MAJOR
 - CONTOUR MINOR
 - SPOT ELEVATION
 - FLOW ARROW
 - PROPOSED 8" WATERLINE
 - EXISTING CONTOUR MAJOR
 - EXISTING CONTOUR MINOR
 - EXISTING SPOT ELEVATION

- NOTES**
- 3" TO 4" FRACTURED ROCK 8"-12" DEEP SHALL BE PLACED OVER MIRAFI FABRIC ON SLOPES 3:1 OR STEEPER. MIRAFI FABRIC TO BE PLACED WITH LANDSCAPE STAPLE AT 5' ON CENTER EACH WAY.
 - EXISTING ACCESS ROADWAY TO BE STABILIZED WITH 4" GRAVEL SURFACE.
 - HYDROLOGY CALCULATIONS HAVE BEEN PROVIDED WITH SITE DEVELOPMENT PLAN REPORT.
 - SOILS UNDER TANK PAD MUST BE PH CORRECTIVE SOIL.
 - BACKFILL FOR DUCTILE IRON PIPE MUST BE PH CORRECTIVE SOIL.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE	
CONTRACTOR	DATE	NO.	BY	NO.	DATE	RONALD R. BOHANNAN NEW MEXICO 7868 PROFESSIONAL ENGINEER	1/21/25	1	NO.	DATE	DESIGNED BY: JN	DATE: JANUARY 2025	
INSPECTOR'S	DATE										DRAWN BY: RMG	DATE: JANUARY 2025	
PERMIT	DATE										DRAWN NAME: MADRID WATER TANK IMPROVEMENTS	JOB NO.: 2023094	
VERIFICATION BY	DATE										CHECKED BY: RRB	DATE: JANUARY 2025	
DRAWINGS	DATE												
MICRO-FILM INFORMATION	DATE												
RECORDED BY	DATE												
NO.	DATE												



- NOTICE TO CONTRACTORS**
- NMDOT UTILITY PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
 - ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE SECTION 7.17.
 - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" [OR (505) 260-1990] FOR THE LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - BACKFILL COMPACTION OF THE TANK FOUNDATION SHALL BE ACCORDING TO TANK MANUFACTURER'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
 - OVEREXCAVATION OF THE TANK FOUNDATION AND DEPTH OF SELECT FILL WILL BE PER GEOTECHNICAL REPORT AND STRUCTURAL DESIGN PLANS.
 - MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

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.

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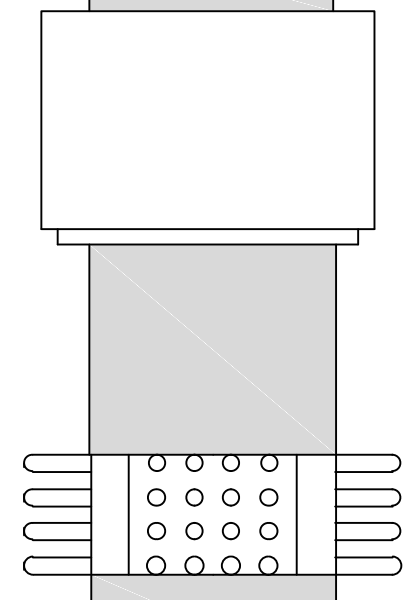
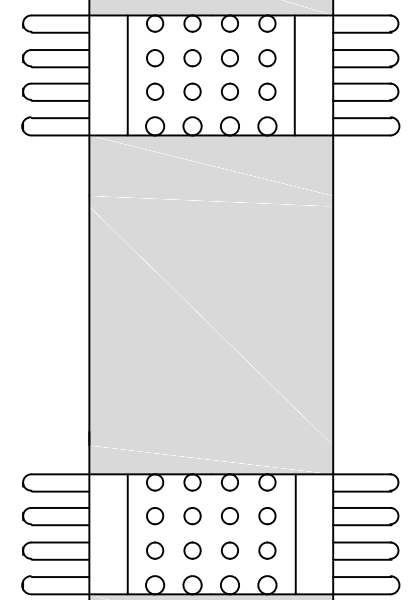
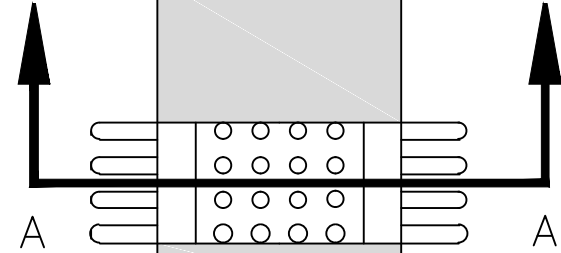
NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
GRADING AND DRAINAGE

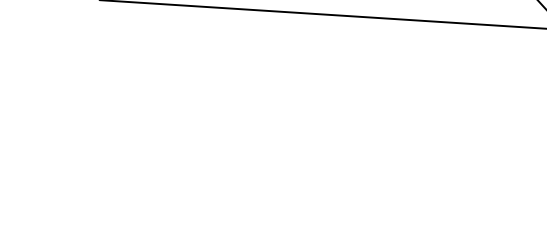


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PROJECT NO. EMNRD-MMD-2025-01
ZONE MAP NO. -
SHEET 6 OF 16



NTS



NTS

NOT TO SCALE

16" DIA WELDED STEEL CASING PIPE
SCHEDULE 30

DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: 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 CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR TEES*						
SIZE	LENGTH ALONG RUN**					
	10'	8'	6'	4'	2'	0'
12x12x12	61	68	76	83	90	96
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

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

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)				
SIZE	HORIZONTAL BENDS			VALVES DEAD END
	90°	45°	22-1/2°	
12	45	19	9	4
10	38	16	8	4
8	32	13	6	3
6	25	10	5	2
4	18	7	4	1

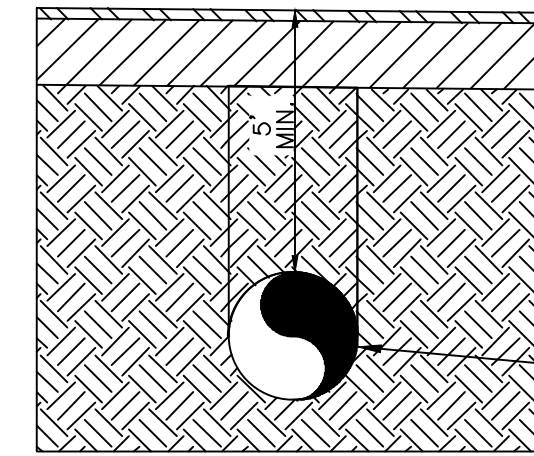
RESTRAINED JOINT LENGTHS FOR REDUCERS***			
SIZE	L. SIDE	SIZE	L. SIDE
12x10	50	10x6	53
12x8	54	10x4	70
12x6	74	8x6	30
12x4	88	8x4	52
10x8	29	6x4	28

***RESTRAINTS ONLY PLACED ON LARGE SIDE

DEPTH OF BURY: 3.0' MINIMUM TO 6.0'
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: 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

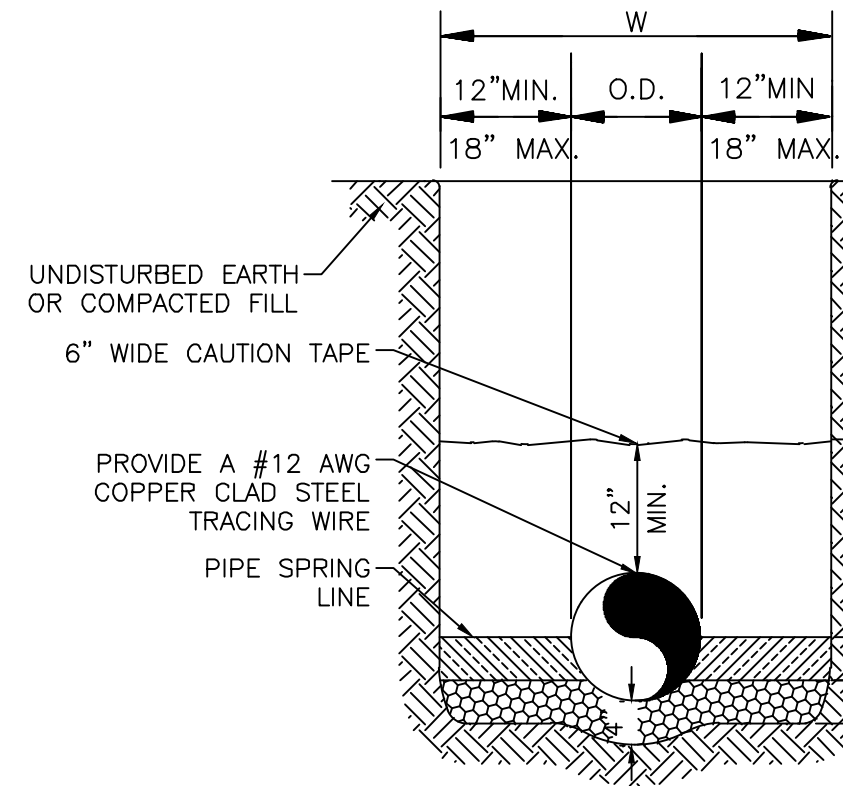
THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL,
GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE
RECALCULATED BY THE DESIGN ENGINEER PRIOR TO
CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)					
SIZE		HORIZONTAL BENDS			
		90°	45°	22-1/2°	11-1/4°
12	UPPER	DON'T	42	20	10
	LOWER	USE	10	5	2
8	UPPER	DON'T	36	17	8
	LOWER	USE	8	4	2
8	UPPER	DON'T	30	14	7
	LOWER	USE	7	3	2
6	UPPER	DON'T	23	11	5
	LOWER	USE	5	3	1
4	UPPER	DON'T	16	8	4
	LOWER	USE	4	2	1



POINTS

— 16" STEEL
CASING



3" MINIMUM BACKFILL. ONSITE MATERIAL
MAY BE USED IF NOT TOO ROCKY PER
GEOTECHNICAL REPORT FOR FINAL
BACKFILL.

INITIAL BACKFILL
INITIAL BEDDING AND BACKFILL
FOR ALL DUCTILE IRON PIPE
MUST BE PH CORRECTIVE SOIL.

LAUNCHING
" BEDDING
(MIN.)

TRENCH DETAIL GENERAL NOTES

- | | | | |
|----|---|-----|---|
| 1. | BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION) | 6. | FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE TYPE II COMPACTED TO 95% STANDARD PROCTOR PER NMDOT SPECIFICATION |
| 2. | HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR. | 7. | ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89. |
| 3. | INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR. | 8. | ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. |
| 4. | INITIAL BACKFILL NOT UNDER PAVED AREAS OR ALONG NM14 CAN BE COMPACTED TO 90% STANDARD PROCTOR OR OTHERWISE MUST BE COMPACTED TO 95% PROCTOR PER NMDOT SPECIFICATION. | 9. | FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3". |
| 5. | FINAL BACKFILL SHALL BE CLASS I, OR II COMPACTED AS NOTED IN NOTES 3. AND 4. | 10. | ALL TRENCH EXCAVATIONS SHALL BE SLOPED SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS) |
| | | 11. | REFER TO NMDOT DETAIL 206-10-1/1 FOR AGENCY SPECIFIC STANDARDS |

UTILITY TRENCH AND BEDDING DETAIL

[illegible]

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

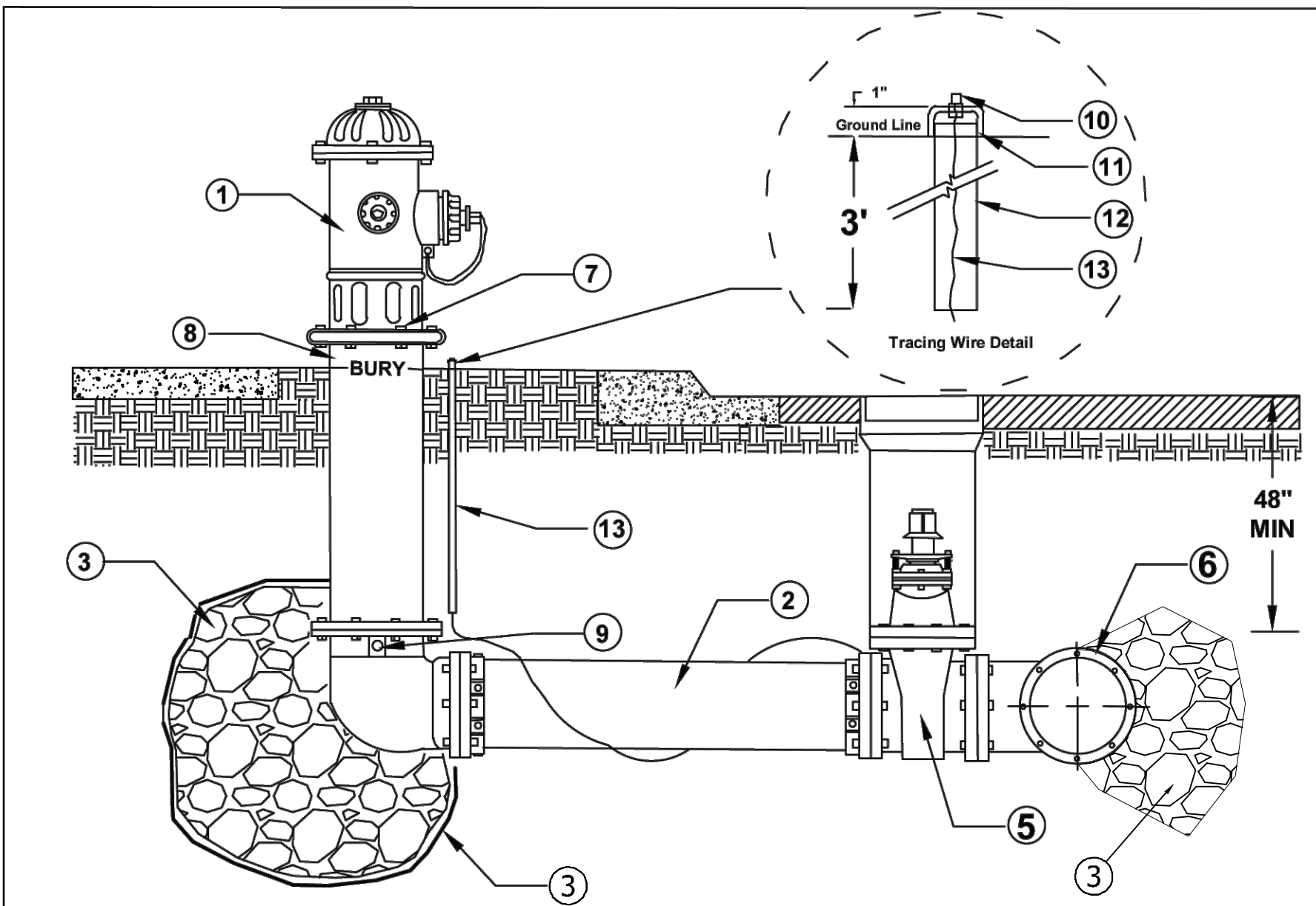
TITLE: **MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**
CONSTRUCTION DETAILS

		LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO.
EMNRD-MMD-2025-01

ZONE MAP NO.
—

SHEET 7 OF 16



NOT TO SCALE

#	DESCRIPTION	#	DESCRIPTION
1	FIRE HYDRANT	8	2" MINIMUM 4" MAXIMUM GAP FROM FINISH GRADE TO BREAK AWAY JOINT
2	6" MINIMUM DUCTILE IRON PIPE*	9	DRAIN (DO NOT BLOCK)
3	CONCRETE THRUSTING BLOCK PER TABLE THIS SHEET	10	NUT AND BOLT WITH WIRE SECURED BY SILVER SOLDER
4		11	GLUED PVC CAP
5	6" MINIMUM GATE VALVE	12	3/4" PVC
6	6" MINIMUM MECHANICAL JOINT TEE FITTING	13	#10 TRACING WIRE
7	BREAK-AWAY CONNECTION	*	ALL BURRIED DUCTILE IRON SHALL HAVE CATHODIC PROTECTION



SANTA FE COUNTY UTILITIES
STANDARD DETAILS

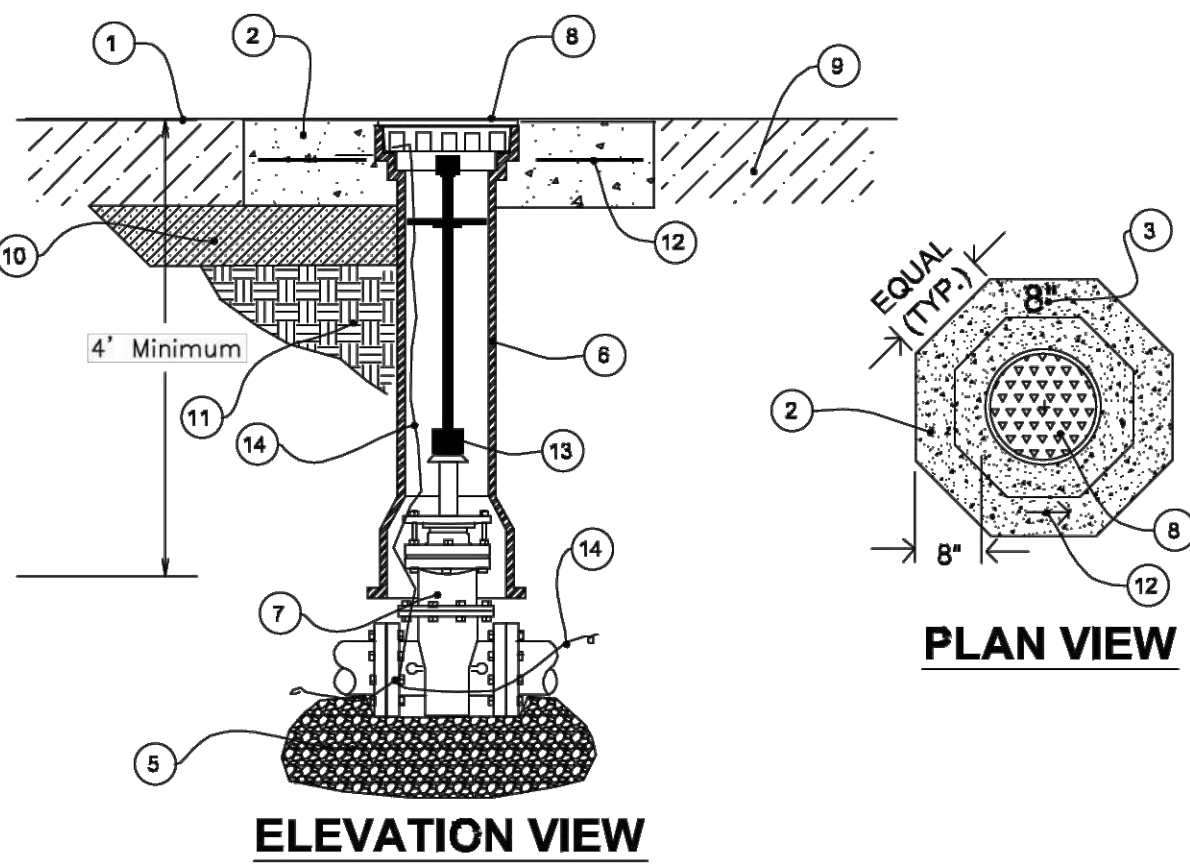
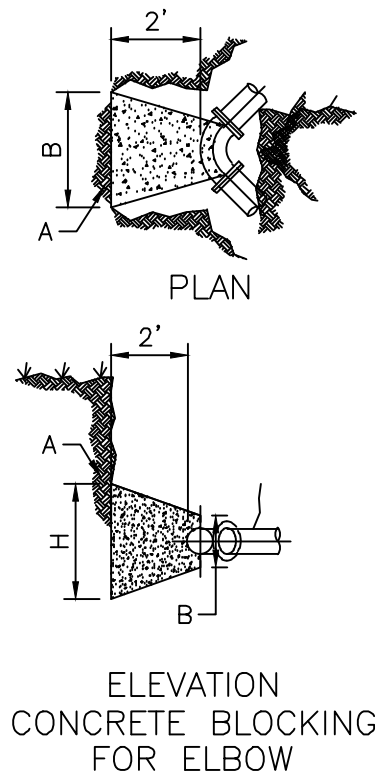
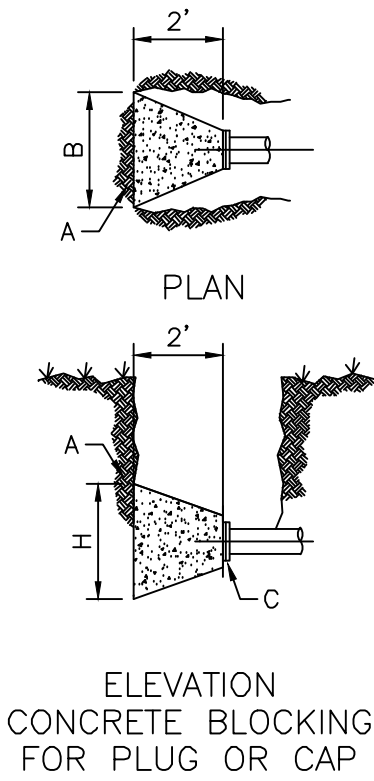
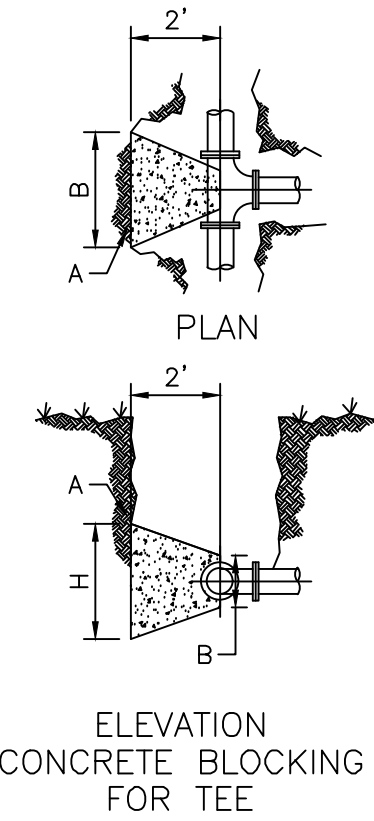
FIRE HYDRANT

DATE:
3/2021

PIPE SIZE	ELBOW ANGLE	ELBOW (B) DIM.	ELBOW (H) DIM.	TEE OR PLUG (B) DIM.	TEE OR PLUG (H) DIM.
4"	90°, 45°	2'	2'	2'	2'
4"	22.5°, 11.25°	2'	2'		
6"	90°, 45°	2'	2'	2'	2'
6"	22.5°, 11.25°	2'	2'		
8"	90°	3'	3'	3'	3'
8"	45°	2'	2'		
8"	22.5°, 11.25°	2'	2'		
10"	90°	3'-6"	3'-6"	3'	3'
10"	45°	3'	3'		
10"	22.5°, 11.25°	2'	2'		
12"	90°	4'	4'	3'-6"	3'-6"
12"	45°	3'-6"	3'-6"		
12"	22.5°, 11.25°	2'	2'		
14"	90°	5'	5'	4'	4'
14"	45°	3'-6"	3'-6"		
14"	22.5°, 11.25°	3'	3'		

CONSTRUCTION NOTE:
A. UNDISTURBED EARTH
B. O.D. OF PIPE +6"
C. O.D. OF CAP OR PLUG, MIN. 12"x12"

CONCRETE BLOCKING DESIGN
NTS PER COA STD DWG #2320



NOT TO SCALE

#	DESCRIPTION	#	DESCRIPTION
1	FINISH STREET GRADE	8	VALVE BOX LID
2	8" MIN DEPTH - 3000 PSI CONCRETE PAD	9	PAVEMENT
3	STAMPED LINE SIZE (2 SIZES IF REDUCING)	10	SUBGRADE
4	STAMPED ARROW INDICATING ISOLATION DIRECTION(?)	11	COMPACTED BACKFILL
5	98% COMPACTED BACK FILL 42" MINIMUM DEPTH	12	#4 REBAR
6	5-1/4 SCREWTYPE ADJUSTABLE VALVE BOX	13	EXTENSION BAR IF NECESSARY
7	GATE VALVE	14	#12 TRACING WIRE



SANTA FE COUNTY UTILITIES
STANDARD DETAILS

VALVE & VALVE BOX
INSTALLATION

DATE:
10/2020



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

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
CONSTRUCTION DETAILS

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO. EMNRD-MMD-2025-01
ZONE MAP NO. -
SHEET 8 OF 16

SURVEY INFORMATION		FIELD NOTES		ENGINEER'S SEAL	
CONTRACTOR	DATE	BY	DATE	NO.	DATE
WORK	DATE	BY	DATE	NO.	DATE
INSPECTOR'S	DATE	BY	DATE	NO.	DATE
ACCEPTANCE BY	DATE	BY	DATE	NO.	DATE
VERIFICATION BY	DATE	BY	DATE	NO.	DATE
DRAWINGS	DATE	BY	DATE	NO.	DATE
CORRECTED BY	DATE	BY	DATE	NO.	DATE
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE
NO.		NO.		NO.	



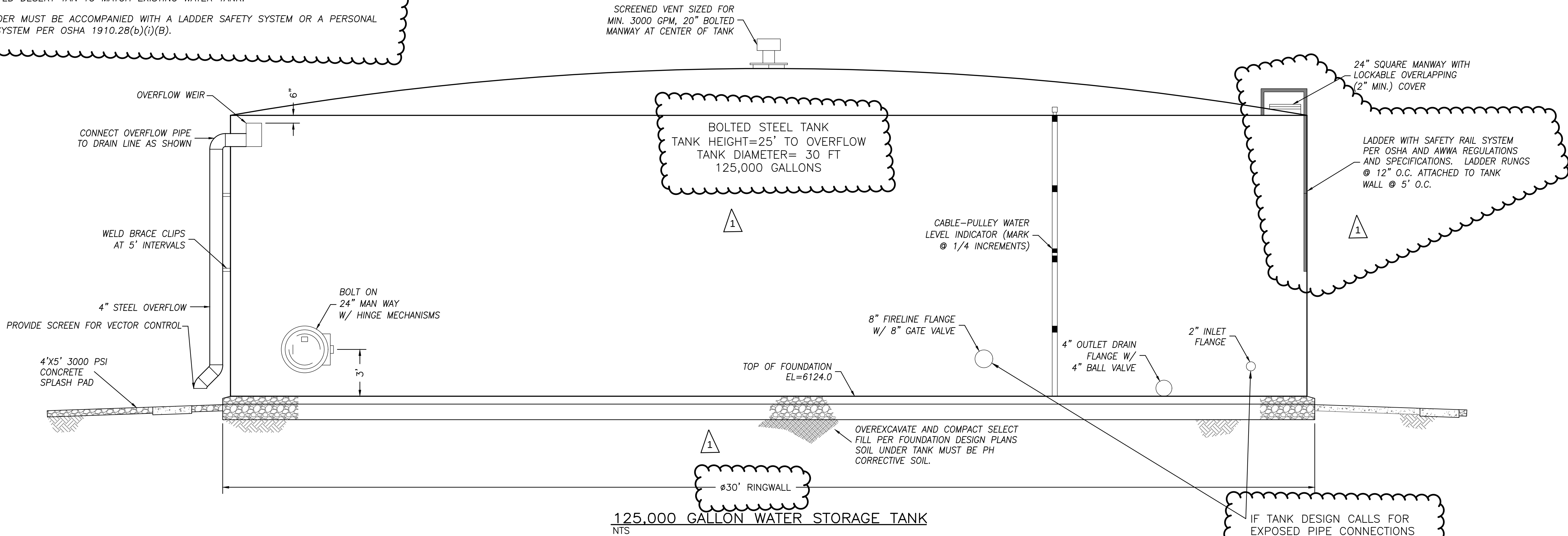
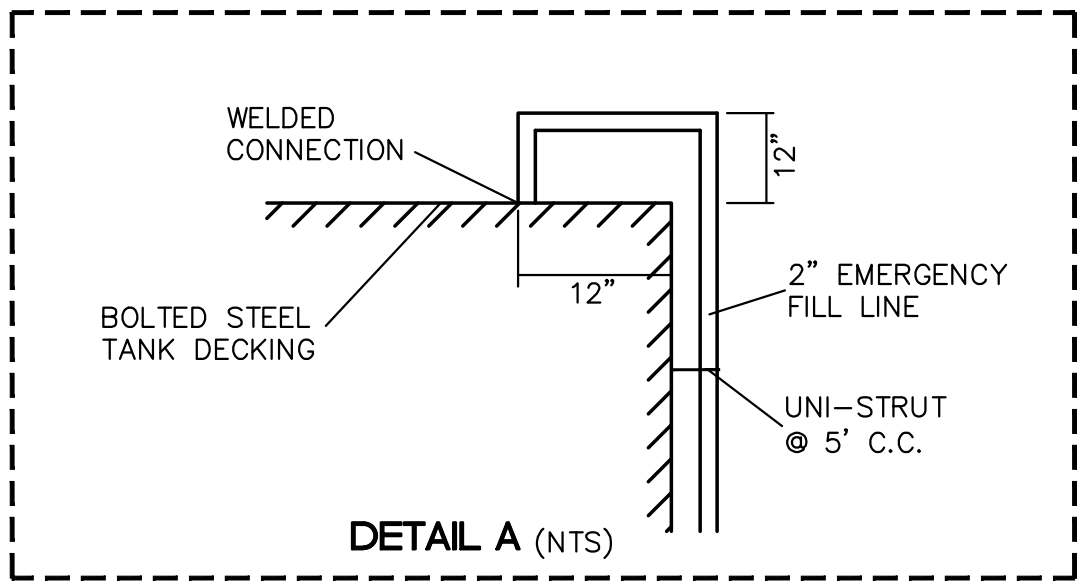
06/26/24

NO.	DATE	REMARKS	BY
DESIGN			
DESIGNED BY: JN		DATE: JUNE 2024	
DRAWN BY: RWG		DATE: JUNE 2024	
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS		JOB NO.: 2023094	
CHECKED BY: RRB		DATE: JUNE 2024	

NOTES:

1. TANK ACCESSORIES HAVE BEEN ROTATED INTO THE PLANE OF PROJECTION. SEE UTILITY PLAN FOR ACTUAL ORIENTATION.
2. DETAILS SHOWN REFLECT A BOLTED STEEL TANK TO CONFORM TO ANSI/AWWA SPECIFICATION D-103 W/LATEST REVISIONS. COATING SHOULD BE APPLIED PER SECTION D103-97.
3. TANK WILL BE CONNECTED TO SCADA SYSTEM VIA CONDUIT THAT WILL CONNECT AT THE SAME LOCATION AS THE INLET PIPE. TANK SHOULD BE COMPLIANT WITH LATEST SCADA REQUIREMENTS.
4. MANUFACTURER TO PROVIDE A TANK WITH EQUIVALENT OR GREATER SPECIFICATIONS THAN THOSE INDICATED ON THIS SHEET.
5. TANK TO BE SET UP WITH A MANUAL FILL CONTROL.
6. SOIL UNDER TANK MUST BE PH CORRECTIVE SOIL.

7. TANK INSULATION OR A HEATER MUST BE PART OF THE TANK DESIGN TO PREVENT FREEZING.
8. TANK TO PAINTED DESERT TAN TO MATCH EXISTING WATER TANK.
9. EXTERIOR LADDER MUST BE ACCOMPANIED WITH A LADDER SAFETY SYSTEM OR A PERSONAL FALL ARREST SYSTEM PER OSHA 1910.28(b)(i)(B).



NOTE:
THIS IS A SCHEMATIC DETAIL. REFER TO TANK DESIGN PLANS FOR ACTUAL LOCATIONS OF OPENINGS.

AS BUILT INFORMATION				BENCH MARKS				SURVEY NOTES				ENGINEER'S SEAL				DESIGN			
CONTRACTOR	WORK	DATE	DATE	NO.	BY	DATE	DATE	NO.	BY	DATE	DATE	NO.	DATE	DATE	DATE	NO.	DATE	DATE	DATE
STAKED BY	INSPECTED BY	DATE	DATE																
FIELD	ADJUSTED	DATE	DATE																
DRAWN BY	CHECKED BY	DATE	DATE																
MICRO-FILM INFORMATION				REVISIONS				DESIGN				DESIGN				DESIGN			
RECORDED BY	NO.	DATE	DATE																



01/17/25

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

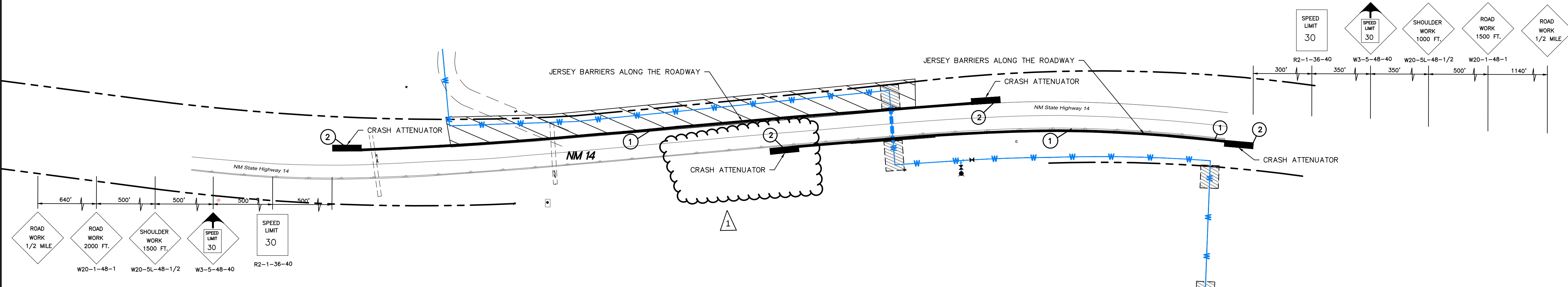
TITLE:
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
WATER STORAGE TANK SPECIFICATIONS**

LAST DESIGN UPDATE		MO./DAY/YR.		MO./DAY/YR.	

PROJECT NO. EMNRD-MMD-2025-01 ZONE MAP NO. - SHEET 9 OF 16



TIERRA WEST, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109
Phone: 505-858-3100 Fax: 505-858-1118



NOTE: ANY EXISTING SPEED LIMIT SIGNS ARE TO BE COVERED DURING CONSTRUCTION IN THE RIGHT-OF-WAY.

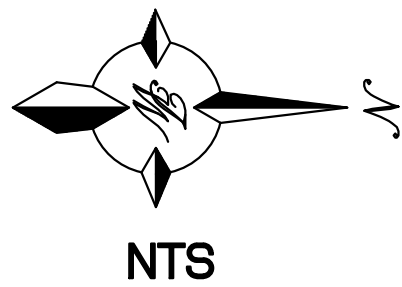
WATERLINE INSTALLATION WITH JACK AND BORE

KEYED NOTES

- 1 CONCRETE WALL BARRIER TYPE 42 PER NMDOT STANDARD DETAIL 606-17.
- 2 SLED TL-2 TRAFFIC ATTENUATOR END TREATMENT OR EQUIVALENT.

TRAFFIC CONTROL MANAGEMENT

THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AND OBTAIN APPROVAL OF A TRAFFIC CONTROL PERMIT PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON THE ROADWAY. ALONG WITH THE PERMIT, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN THAT WILL REFLECT AND COORDINATE THE CONTRACTOR'S PROPOSED CONSTRUCTION PHASING. THESE PLANS SHALL BE PREPARED AND SEALED BY A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER. THE PLANS SHALL BE REVIEWED AND APPROVED BY THE DISTRICT THREE TRAFFIC ENGINEER OR DESIGNEE. THE NMDOT DISTRICT TRAFFIC SECTION RESERVES THE RIGHT TO MAKE ANY CHANGES TO THE TRAFFIC CONTROL PLAN TO ADDRESS SITE SPECIFIC ITEMS THAT WERE NOT SHOWN ON THE PLANS. THE NMDOT ALSO RESERVES THE RIGHT TO ADD TRAFFIC CONTROL DEVICES TO THE APPROVED PLAN IF IT IS DETERMINED BY THE TRAFFIC ENGINEER OR DESIGNEE THAT THE ADDITIONAL DEVICES WOULD BE REQUIRED TO ADDRESS SAFETY CONCERNS WITHIN OR IN ADVANCE OF THE WORK ZONE. THE TRAFFIC CONTROL PERMIT ALONG WITH THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE NMDOT DISTRICT THREE, ISRAEL SUAZO (505-382-8786) AT LEAST 10 WORKING DAYS PRIOR TO CONSTRUCTION. THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED ELECTRONICALLY OR ON 11X17 SHEETS. A COPY OF THE TRAFFIC CONTROL PERMIT (RIGHT-OF-WAY FORMS) MAY BE OBTAINED FROM OUR OFFICE.



TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com	
NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM	
TITLE: MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS TRAFFIC CONTROL PLAN	
LAST DESIGN UPDATE	MO./DAY/YR.
	MO./DAY/YR.
	MO./DAY/YR.
	MO./DAY/YR.
	MO./DAY/YR.
PROJECT NO. EMNRD-MMD-2025-01	ZONE MAP NO. —
SHEET 10 OF 16	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
WORK	DATE	WORK	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
INSPECTOR'S	DATE	INSPECTOR'S	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
VERIFICATION BY	DATE	VERIFICATION BY	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
DRAWINGS	DATE	DRAWINGS	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
SCHEMATIC	DATE	SCHEMATIC	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	BY	DATE	BY
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE
NO.		NO.		NO.		NO.		NO.		NO.		NO.	

01/17/25

DESIGNED BY: JN

DATE: JANUARY 2025

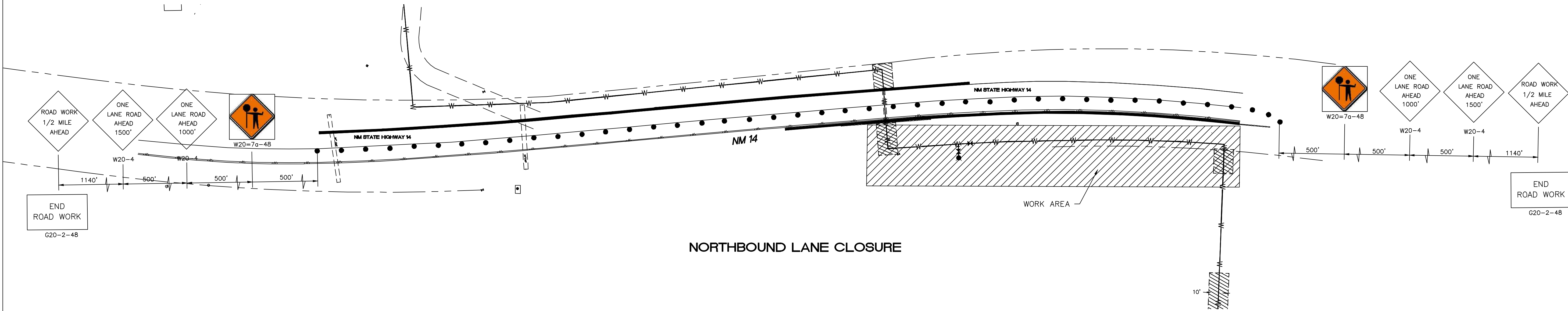
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DATE: JANUARY 2025

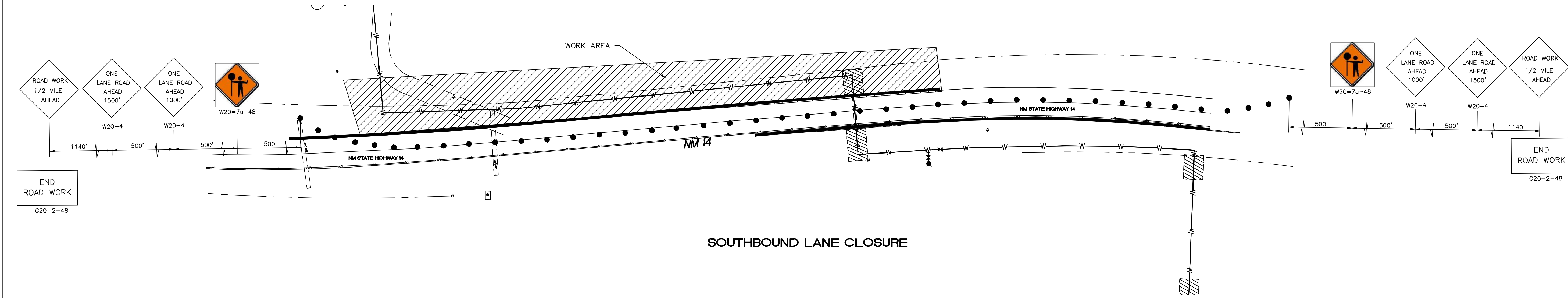
JOB NO.: 2023094

CHECKED BY: RRB

DATE: JANUARY 2025



NORTHBOUND LANE CLOSURE

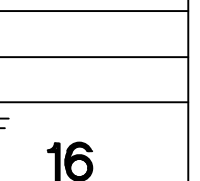
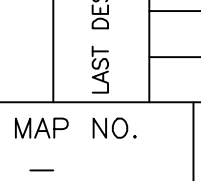
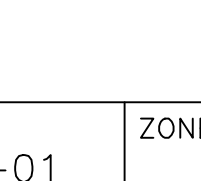
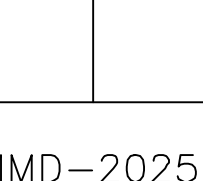
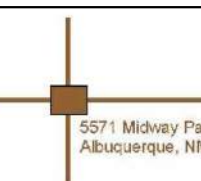
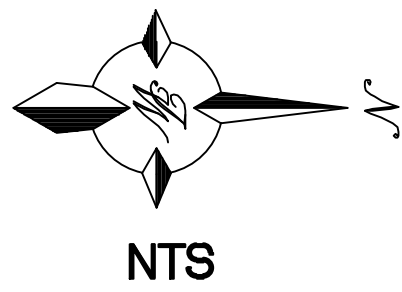


SOUTHBOUND LANE CLOSURE

NOTE: ANY EXISTING SPEED LIMIT SIGNS ARE TO BE COVERED DURING CONSTRUCTION IN THE RIGHT-OF-WAY.

TRAFFIC CONTROL MANAGEMENT

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

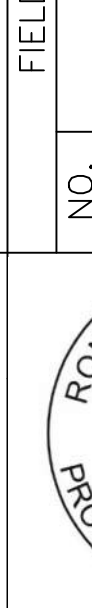
TITLE:
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
TRAFFIC CONTROL PLAN**

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO.
EMNRD-MMD-2025-01

ZONE MAP NO.
—

SHEET
11 OF
16

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR								FIELD NOTES							
WORK								BY				DATE			
STAGED BY															
INSPECTOR'S															
DATE															
ACCEPTANCE BY															
FIELD															
VEGETATION BY															
DATE															
DRAWINGS															
CORRECTED BY															
DATE															
MICRO-FILM INFORMATION															
RECORDED BY															
DATE															
NO.															

DESIGNED BY: JN		DATE: JUNE 2024
DRAWN BY: RMG		DATE: JUNE 2024
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS		JOB NO.: 2023094
CHECKED BY: RRB		DATE: JUNE 2024

RONALD R. BOHANNAN
NEW MEXICO
7868
PROFESSIONAL ENGINEER
06/26/24

REMARKS	BY	DATE
DESIGN		
DESIGNED BY: JN		DATE: JUNE 2024
DRAWN BY: RMG		DATE: JUNE 2024
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS		JOB NO.: 2023094
CHECKED BY: RRB		DATE: JUNE 2024

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TAPER REQUIREMENTS					
SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10' LANE	11' LANE	12' LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

RECOMMENDED SIGN SPACING (D) FOR
ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	MINIMUM DISTANCE IN FEET FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
35-40	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

LEGEND



WORK AREA



TRAFFIC SIGN & QUANTITY (SEE THIS SHEET FOR DESIGNATION)



BARRICADE - TYPE I, TYPE II, OR BARREL



BARRICADE - TYPE III



VERTICAL PANEL



WARNING SIGN



DISTANCE BETWEEN SIGNS-A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET



FLAGMAN POSITION



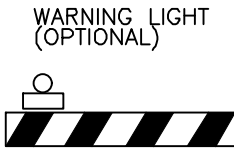
SPACING BETWEEN BARRICADES-A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER LENGTH - ON CHART

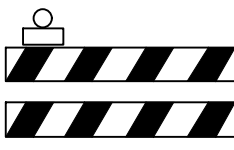
TANGENT LENGTH - IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

NOTES

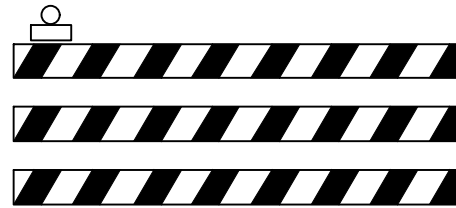
1. ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE PRESENT.
2. TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOURS.
3. THIS IS A STANDARD TRAFFIC CONTROL PLAN AND SOME TRAFFIC CONTROL SITUATIONS MAY BE SHOWN THAT ARE NOT REQUIRED ON THIS PARTICULAR PROJECT.



TYPE I BARRICADE



TYPE II BARRICADE



TYPE III BARRICADE

NOTE: FLASHING OR STEADY BURN WARNING LIGHTS SHOULD BE USED ON BARRICADES, PANELS, AND DRUMS AS NEEDED.

TAPER CRITERIA

TYPE OF TAPER

UPSTREAM TAPER:
MERGING TAPER:
SHIFTING TAPER:
SHOULDER TAPER:
TWO-WAY TRAFFIC TAPER:
DOWNSTREAM TAPER:

TAPER LENGTH

SEE CHART
L MINIMUM
1/2 L MINIMUM
1/2 L MINIMUM
100 FEET MAXIMUM
100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT

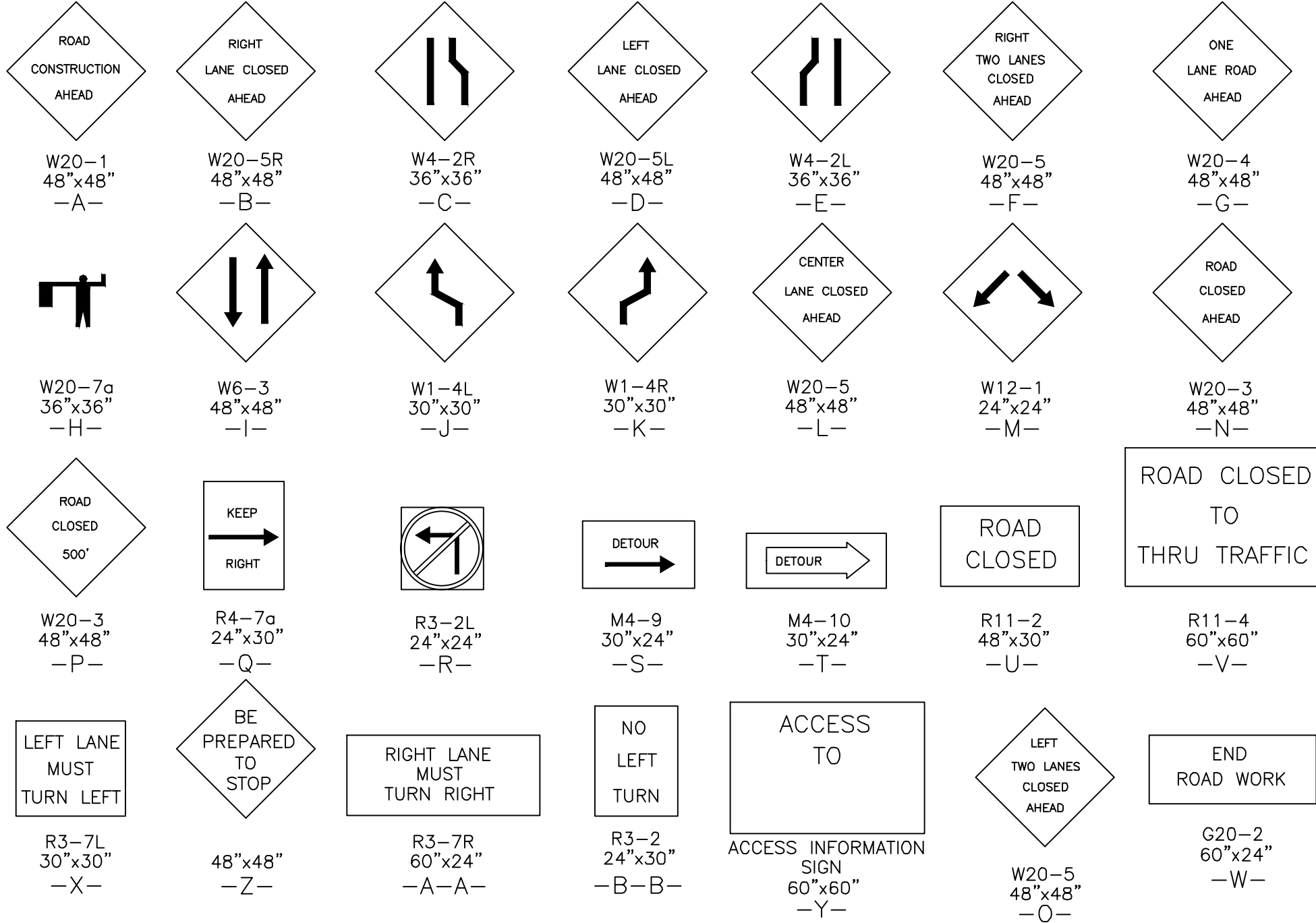
45 MPH OR LESS:

$$L = \frac{WS^2}{60}$$

45 MPH OR GRATER:

$$L = W \times S$$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK
85-PERCENTILE SPEED IN MPH



NOTE: ARROW DIRECTION TO BE ADJUSTED AS NEEDED.

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
VEGETATION BY	DATE
DRAWINGS	DATE
CONTRACTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES	
BY	DATE
NO.	

ENGINEER'S SEAL



06/26/24

BY

REMARKS

REVISIONS

DESIGN

DATE: JUNE 2024

DRAWN BY: RMG

DATE: JUNE 2024

JOB NO.: 2023094

DRAWN NAME: MADRID WATER TANK IMPROVEMENTS

CHECKED BY: RRB

DATE: JUNE 2024



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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
TRAFFIC CONTROL NOTES

LAST DESIGN UPDATE

MO./DAY/YR.

MO./DAY/YR.

PROJECT NO.

EMNRD-MMD-2025-01

ZONE MAP NO.

-

SHEET

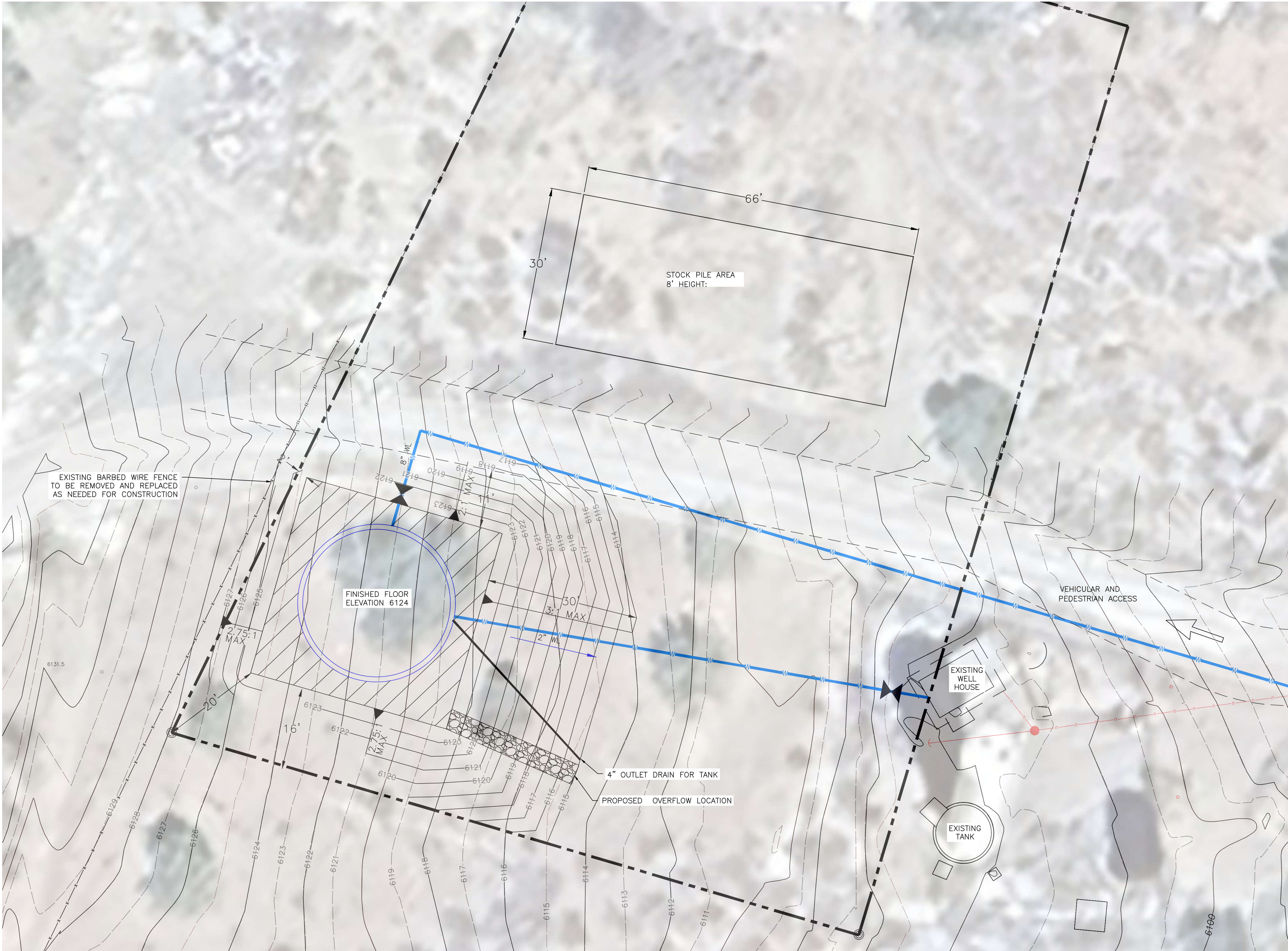
OF

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16



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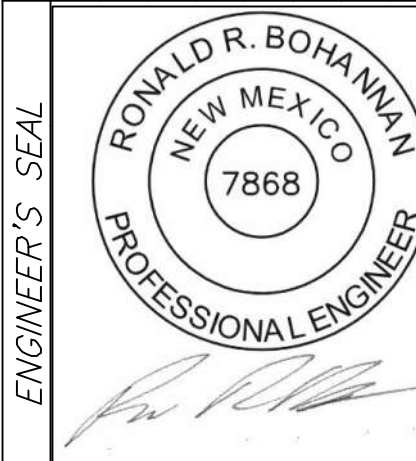
LEGEND

- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- BUILDING
- 5010--- CONTOUR MAJOR
- 5011--- CONTOUR MINOR
- x 5048.25 SPOT ELEVATION
- FLOW ARROW
- PROPOSED 8" WATERLINE
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- 5048.25 EXISTING SPOT ELEVATION

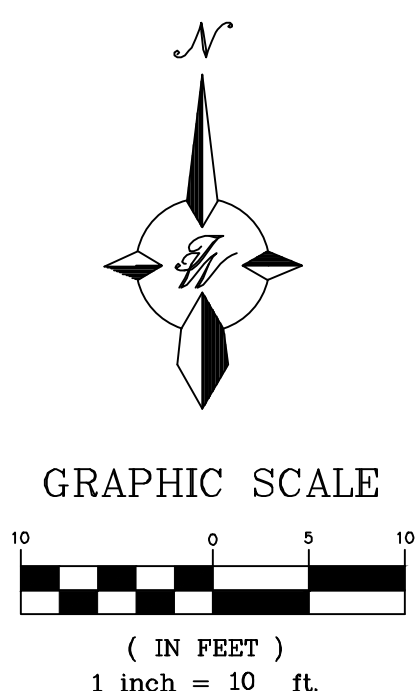
NOTES

- 3" TO 4" FRACTURED ROCK OVER MIRAFI FABRIC, ON SLOPES 3:1 OR STEEPER.
- EXISTING ACCESS ROADWAY TO BE STABILIZED WITH 4" GRAVEL SURFACE.
- HYDROLOGY CALCULATIONS HAVE BEEN PROVIDED WITH SITE DEVELOPMENT PLAN REPORT.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR				NO.	BY	DATE		NO.	DATE	BY	DATE
INSPECTED BY											
DATE											
INSPECTOR'S											
DATE											
FIELD BY											
DATE											
VERIFICATION BY											
DATE											
CREATED BY											
DATE											
MICRO-FILM INFORMATION											
RECORDED BY											
NO.											



06/26/24



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5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
STOCKPILE PLAN**

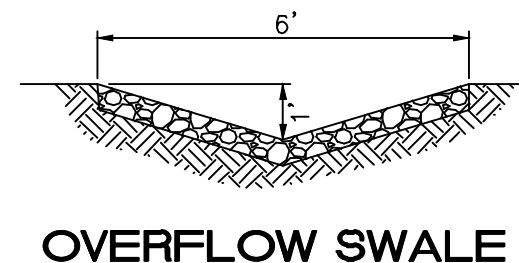
LAST DESIGN UPDATE	MO./DAY/YR.	
PROJECT NO.	EMNRD-MMD-2025-01	
ZONE MAP NO.	-	
SHEET	13	OF 16

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.

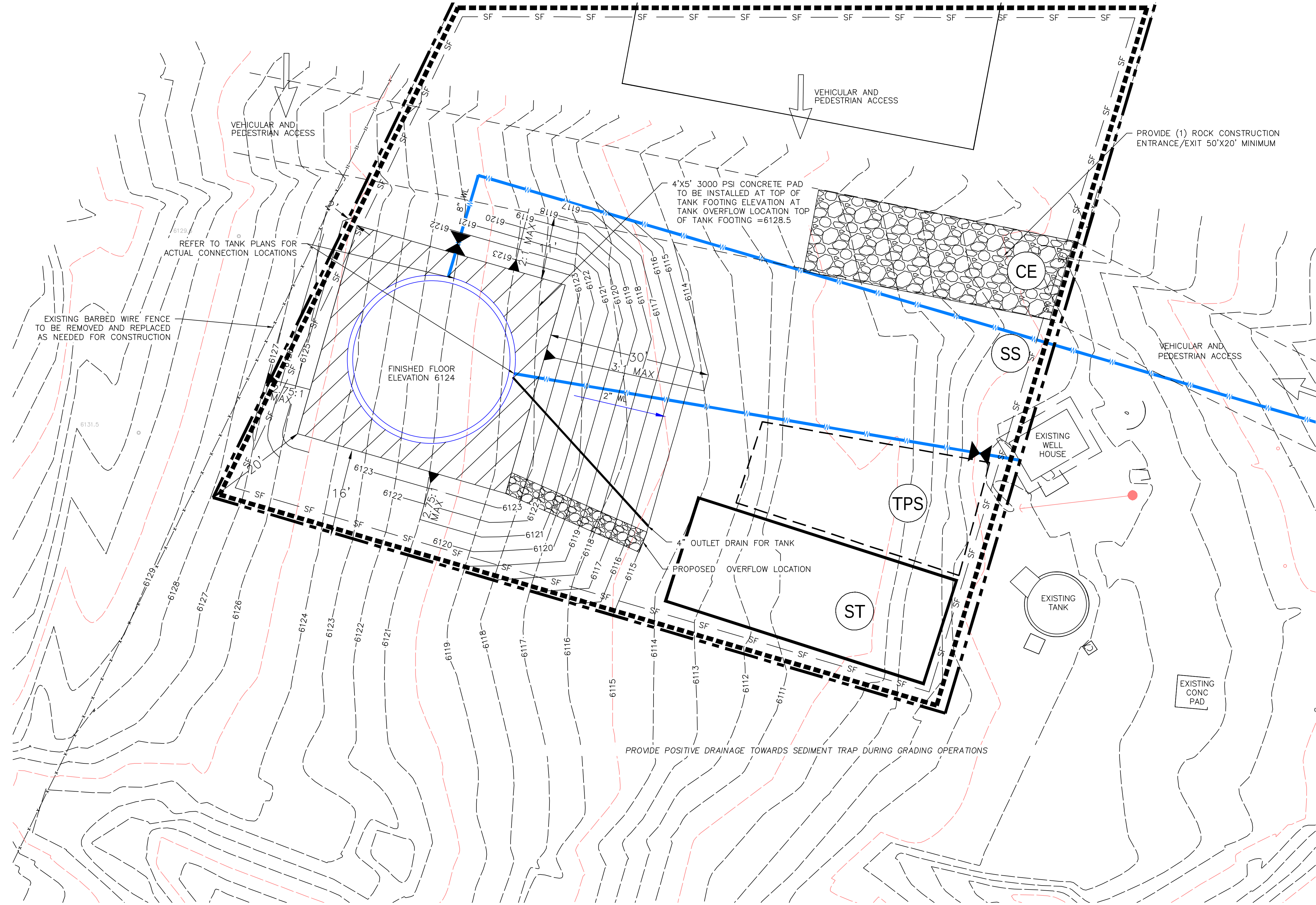


TERRA WEST, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109
Phone: 505-858-3100
Fax: 505-858-1118



OVERFLOW SWALE

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LEGEND

PROPOSED

- BOUNDARY LINE
- RIGHT OF WAY LINE
- LIMITS OF DISTURBANCE
- XXX --- CONTOUR ELEVATIONS
- SF --- TEMPORARY SILT FENCE
- TEMPORARY PARKING AND STORAGE

5056 EXISTING CONTOURS

5056 PROPOSED CONTOURS

EROSION DETAILS

- CE TEMPORARY STONE CONSTRUCTION EXIT
- SF TEMPORARY SILT FENCE
- ST TEMPORARY SEDIMENT TRAP W/ EMERGENCY OVERFLOW
- IP INLET PROTECTION
- SS SWPPP SIGN
- W WATTLES

EROSION NOTES

- TPS TEMPORARY PARKING AND STORAGE

NATURE AND EXTENT OF CONSTRUCTION ACTIVITIES:

NATURE OF CONSTRUCTION ACTIVITIES: ROUGH/FINE GRADING OF THE SITE, INSTALLATION OF PRIVATE UTILITIES (WATER, SANITARY, & STORM), PAVING OF ONSITE PARKING, CURB, AND SIDEWALKS, AND CONSTRUCTION OF BUILDING.

PROPERTY SIZE: 9.0 ACRES

DISTURBED AREA SIZE: 10.0 ACRES

DESCRIPTION OF CONSTRUCTION SUPPORT ACTIVITIES: EQUIPMENT STAGING YARD, MATERIALS STORAGE AREA, EXCAVATED MATERIALS DISPOSAL/STORAGE AREAS.

MAXIMUM DISTURBED AREA SIZE: 10.0 ACRES

STORMWATER TEAM MEMBERS:

SEDIMENT REMOVAL NAME: _____
PHONE: _____
EMAIL: _____

BMP MAINTENANCE NAME: _____
PHONE: _____
EMAIL: _____

INSPECTIONS NAME: _____
PHONE: _____
EMAIL: _____

LIST OF OPERATORS:

OPERATOR 1 NAME: _____
PHONE: _____
EMAIL: _____

OPERATOR 2 NAME: _____
PHONE: _____
EMAIL: _____

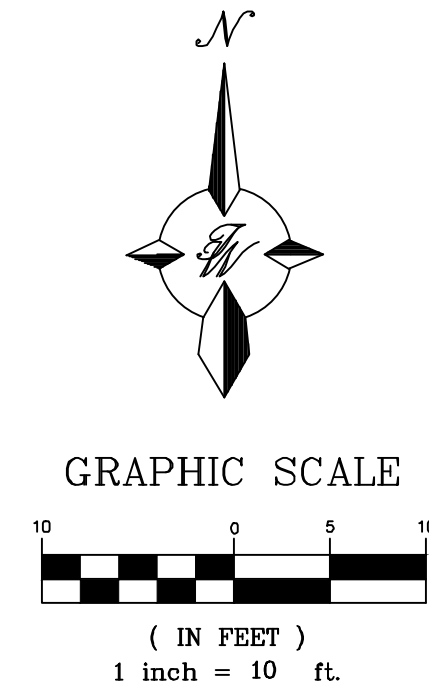
OPERATOR 3 NAME: _____
PHONE: _____
EMAIL: _____

GROUND COVER (PRE-CONSTRUCTION):

THE UNDISTURBED AND PRE-CONSTRUCTION GROUND COVER CONSISTS OF UNCOMPACTED SOIL WITH NATIVE GRASSES, WEEDS, AND SHRUBS WITH MINIMAL DISTURBANCES TO GRADING.

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.



SWPPP PURPOSE:

THE PURPOSE OF THIS SWPPP IS TO APPLY SWPPP CONTROLS THAT ARE REQUIRED DURING DEVELOPMENT OF SITE.

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										AS BUILT INFORMATION					
										CONTRACTOR		WORK		DATE	
										STAKED BY		DATE		DATE	
										REVISIONS		ACCEPTANCE BY		DATE	
										FIELD		DATE		DATE	
										DRAWINGS		BY		DATE	
										CORRECTED BY		DATE		DATE	
										MICRO—FILM INFORMATION		RECORDED BY		DATE	
										NO.					

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ESC PLAN STANDARD NOTES:

1. ALL EROSION AND SEDIMENT CONTROL (ESC) WORK ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON SHALL BE PERMITTED, CONSTRUCTED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH:
 - a. THE CITY ORDINANCE § 14-5-2-11, THE ESC ORDINANCE,
 - b. THE EPA'S 2022 CONSTRUCTION GENERAL PERMIT (CGP), AND
 - c. THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL.
2. ALL BMP'S MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMP'S SUCH AS SEDIMENT TRAPS, SEDIMENT BASINS, AND DIVERSION BERMS SHALL BE COMPLETED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION OR EARTH-WORK. SELF-INSPECTION IS REQUIRED AFTER INSTALLATION OF THE BMPS AND PRIOR TO BEGINNING CONSTRUCTION.
3. SELF-INSPECTIONS -- IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), "AT A MINIMUM A ROUTINE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVENT OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
4. CORRECTIVE ACTION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
5. FINAL STABILIZATION AND NOTICE OF TERMINATION (NOT) -- IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), SELF-INSPECTIONS MUST CONTINUE UNTIL THE SITE IS "DETERMINED AS STABILIZED BY THE CITY." THE PROPERTY OWNER/OPERATOR IS RESPONSIBLE FOR DETERMINING WHEN THE "CONDITIONS FOR TERMINATING CGP COVERAGE" PER CGP PART 8.2 ARE SATISFIED AND THEN FOR FILING THEIR NOTICE OF TERMINATION (NOT) WITH THE EPA. EACH OPERATOR MAY TERMINATE CGP COVERAGE ONLY IF ONE OR MORE OF THE CONDITIONS IN PART 8.2.1, 8.2.2, OR 8.2.3 HAS OCCURRED. AFTER FILING THE NOT WITH THE EPA, THE PROPERTY OWNER IS RESPONSIBLE FOR REQUESTING A DETERMINATION OF STABILIZATION FROM THE CITY.
6. WHEN DOING WORK IN THE CITY RIGHT-OF-WAY (E.G. SIDEWALK, DRIVE PADS, UTILITIES, ETC.) PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEEPED DAILY OR PRIOR TO A RAIN EVENT OR CONTRACTOR INDUCED WATER EVENT (E.G. CURB CUT OR WATER TEST).
7. WHEN INSTALLING UTILITIES BEHIND THE CURB, THE EXCAVATED DIRT SHOULD NOT BE PLACED IN THE STREET.
8. WHEN CUTTING THE STREET FOR UTILITIES THE DIRT SHALL BE PLACED ON THE UPHILL SIDE OF THE STREET CUT AND THE AREA SWEEPED AFTER THE WORK IS COMPLETE. A WATTLE OR MULCH SOCK MAY BE PLACED AT THE TOE OF THE EXCAVATED DIRT PILE IF SITE CONSTRAINTS DO NOT ALLOW PLACING THE EXCAVATED DIRT ON THE UPHILL SIDE OF THE STREET CUT.
9. ESC PLANS MUST SHOW LONGITUDINAL STREET SLOPE AND STREET NAMES. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES/MULCH SOCKS OR J-HOOD SILT FENCE SHALL BE SHOWN IN THE FRONT YARD SWALE OR ON THE SIDE OF THE STREET.

GENERAL EROSION NOTES:

- A. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE SWPPP BOOK, THE 2017 GENERAL CONSTRUCTION PERMIT, THIS DRAWING ("TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN"), STANDARD DETAILS ("TEMPORARY EROSION CONTROL AND SEDIMENTATION DETAILS"), EPA NOTICE OF INTENT PERMIT AND ALL SUBSEQUENT REPORTS, CORRECTIVE ACTIONS AND EROSION CONTROL RELATED DOCUMENTS.
- B. ALL OPERATORS AS DESIGNATED, CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH SITE ACTIVITIES RELATED TO STORM WATER POLLUTION PREVENTION SHALL REVIEW A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE 2017 CONSTRUCTION GENERAL PERMIT, THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), THE CLEAN WATER ACT OF 1972 AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. THE OPERATOR IN CONTROL OF DAILY SITE ACTIVITIES SHALL IMPELMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS THAT MAY OCCUR AT NO ADDITIONAL COST TO PROJECT OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO ALL FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. OPERATOR WITH CONTROL OF DAILY SITE ACTIVITIES SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, LOCAL JURISDICTIONAL AUTHORITY OR SWPPP COMPLIANCE INSPECTOR.
- E. THE TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN IS A WORKING DOCUMENT AND IS REQUIRED TO BE UPDATED WITHIN 24 HOURS OF ANY CHANGES WHEN BMP'S ARE REPAIRED, RELOCATED OR REMOVED BY NOTING ON THE PLAN THE AREAS AND DATES OF THE REPAIRS, RELOCATIONS OR REMOVALS. AN ACTIVE COPY OF THE PLAN SHALL BE POSTED IN THE JOB SITE TRAILER ONSITE AND MUST BE MAINTAINED CURRENT AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING AND EARTH DISTURBANCE TO THE MAXIMUM ACREAGE AS REQUIRED BY THE EPA CONSTRUCTION GENERAL PERMIT.
- G. CONTRACTOR SHALL DENOTE ON THIS PLAN, THE LOCATION OF TEMPORARY PARKING, STORAGE, PORTABLE SANITARY FACILITIES, OFFICE TRAILERS, AND ALL SUPPORT AREAS. RELOCATIONS OF EACH SHALL ALSO BE DOCUMENTED AS THEY OCCUR.
- H. ALL WASH OUT WATER USED FOR CONCRETE, MASONRY, PAINT AND OTHER MATERIALS SHALL HAVE ADEQUATE SIGNAGE WITH PROPER CONTAINMENT AND DISPOSED OF PROPERLY WHEN CAPACITY REACHES 50% OR PER VENDOR RECOMMENDATIONS. VENDORS AND TRADESMEN SHALL BE INFORMED OF THE REQUIREMENTS TO USE THE WASH OUT.
- I. A SPILL KIT SHALL BE READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS. A DISCHARGE OF ANY MATERIAL IN A QUANTITY THAT MAY WITHIN REASONABLE PROBABILITY CAUSE, INJURE OR BE DETRIMENTAL TO HUMAN HEALTH, ANIMAL OR PLANT LIFE, OR PROPERTY; OR INTERFERE WITH THE PUBLIC WELFARE MUST BE REPORTED TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT HOTLINE AT (505) 827-9329 FOR EMERGENCIES OR FOR NON EMERGENCIES AT (866)-428-6535.
- J. IF UNSURE IF THE SPILL IS OF A SIGNIFICANT QUANTITY, THE SPILL SHOULD BE REPORTED TO THE HOTLINE AND INFORMATION PROVIDED WITH DETAILS OF THE SPILL FOR FURTHER ACTIONS.
- K. DUST DURING CONSTRUCTION OPERATIONS SHALL BE FREQUENTLY CONTROLLED BY WATER SUPPRESSION METHODS ONLY. EARTH DISTURBING OPERATIONS SHALL CEASE IF HIGH WINDS ABOVE 35 MPH ARE PRESENT. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS IS STRICTLY PROHIBITED. OTHER CHEMICALS USED FOR DUST SUPPRESSION MUST BE APPROVED BY THE EPA PRIOR TO THEIR USE.
- L. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED, COVERED, LEAK PROOF CONTAINERS. CONTAINERS SHALL BE DISPOSED OF PROPERLY WHEN CAPACITY IS REACHED. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER.
- M. ALL STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED PER THE SEQUENCE OF CONSTRUCTION AS NOTED.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS BEEN TEMPORARILY SUSPENDED FOR 14 DAYS, SHALL HAVE TEMPORARILY STABILIZATION IN PLACE NO LATER THAN 14 DAYS FROM THE LAST DATE OF CONSTRUCTION ACTIVITY OCCURRING THESE AREAS.
- O. TEMPORARY COVER AND FINAL STABILIZATION (PART 2.2.12 (a) AND (b) RESPECTIVELY ARE TO BE PER COA STD SPEC 1012 NATIVE SEED WITH HYDROMULCH AND AGGREGATE MULCH (2-4") RESPECTIVELY.
- P. IF THE ACTION OF VEHICLES OR EQUIPMENTS TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD FROM LEAVING THE SITE, THEN THE LENGTH OF THE EXIT SHOULD BE EXTENDED TO PROVIDE ADDITIONAL TIRE ROTATIONS, LARGER ROCK MAY BE USED TO CREATE A SUFFICIENT JARRING MOTION OR INSTALL A TIRE WASH OFF WITH A SEDIMENT TRAP BEFORE LEAVING THE SITE.
- Q. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- R. THE OPERATOR IN CHARGE OF THE DAILY SITES ACTIVITIES WILL BE RESPONSIBLE FOR REMOVING SEDIMENT OR SOILS ACCUMULATING MORE THAN 50% OF THE DESIGN CAPACITY IN DETENTION PONDS, SILT FENCING OR OTHER SIMILAR EROSION CONTROLS.
- S. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES, AS REQUIRED PER THE CONSTRUCTION GENERAL PERMIT. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE ESC PLAN AND PERMITTED IN ACCORDANCE WITH LOCAL AUTHORITIES HAVING JURISDICTIONAL CONTROL.
- T. SLOPES SHALL BE LEFT WITH CROSS SLOPE GRADING PATTERN AND IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION RILLS. EXCESSIVE SLOPES MAY REQUIRE ADDITIONAL INDUSTRY STANDARD CONTROLS TO PREVENT EROSION.
- U. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE OPERATOR IN CONTROL OF THE SITE'S DAILY ACTIVITIES SHALL BE RESPONSIBLE FOR ADJUSTING AND MAINTAINING ALL EROSION CONTROL TO PREVENT EROSION.
- V. ALL DISTURBED AREAS SHALL BE SUPPRESSED BY WATER AND ALL CONTROLS LEFT IN GOOD WORKING CONDITION AT THE END OF EACH WORKING DAY, THIS INCLUDES REPLACEMENT OF SILT FENCING AND/OR OTHER SURFACE CONTROLS, TRACK OUT SWEEP CLEAN, BACKFILL OF OPEN TRENCHES AND ANY OTHER EROSION CONTROLS.

BMP MAINTENANCE

ALL MEASURES STATED IN THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR UNTIL FINAL STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF THE WORKDAY BY A QUALIFIED MEMBER OF THE SWPPP COMPLIANCE TEAM. THE OPERATOR WITH CONTROL OF THE SITES DAILY ACTIVITIES IS RESPONSIBLE TO MAINTAIN, CLEAN AND REPAIR EROSION CONTROLS IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED, IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION. SEDIMENT SHALL BE REMOVED TO INSURE PROPER FLOWS. INLET PROTECTION TYPES MAY NEED TO BE MODIFIED DURING THE CONSTRUCTION PROGRESS.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.
3. SILT FENCES, WADDLES OR OTHER CONTROLS SHALL BE REPLACED OR REPAIRED TO PROPER FUNCTIONING CONDITION, IF DAMAGED. SEDIMENT AND SOIL SHALL BE REMOVED WHEN REACHES ONE-HALF THE HEIGHT OF THE CONTROL.
4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING, EXTENDING OR OTHER MODIFICATIONS TO THE CONSTRUCTION EXITS AS CONDITIONS DEMAND. SITE TRAFFIC SHOULD BE LIMITED TO THE CONTROLLED EXITS ONLY.
5. SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
6. REFERENCE THE SWPPP BOOK FOR ALL EROSION CONTROL MAINTENANCE PROCEDURES AND FREQUENCIES. CONSULT THE SWPPP PREPARER WITH ANY QUESTIONS REGARDING THIS SWPPP AND ITS REQUIREMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT FROM THE LOCAL JURISDICTIONAL AUTHORITY PRIOR TO BEGINNING WORK.
2. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS RESPONSIBLE FOR MAINTAINING RUN-OFF and RUN ON OF SITE DURING CONSTRUCTION.
3. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL EXPOSED EARTH SURFACES MUST HAVE APPROPRIATE CONTROLS TO PROTECT FROM WIND AND WATER EROSION DURING ALL PHASES OF THE PROJECT.
5. STOCKPILES INACTIVE FOR 14 DAYS ARE REQUIRED TO HAVE TEMPORARY STABILIZATION OR APPROPRIATE COVER TO CONTROL WIND AND WATER EROSION.
6. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS REQUIRED TO MAINTAIN ALL SITE BMP'S IN GOOD CONDITION FOR THE DURATION OF THE PROJECT UNTIL A NOTICE OF TERMINATION IS ACCEPTED BY THE EPA.
7. IF SITE EARTH DISTURBANCES EXCEED 5 ACRES AT ANY ONE TIME, TEMPORARY AND/OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS WHEN AREA BECOMES INACTIVE OR EARTH DISTURBING ACTIVITIES ARE COMPLETE. SITE EARTH DISTURBANCES OF LESS THAN 5 ACRES, HAVE 14 DAYS TO PROVIDE TEMPORARY OR PERMANENT STABILIZATION WHEN AREA BECOMES INACTIVE OR EARTH DISTURBING ACTIVITIES ARE COMPLETE.

GENERAL NOTES:

1. PROVIDE POSITIVE DRAINAGE TOWARDS SEDIMENT TRAPS DURING GRADING OPERATIONS.
2. INSTALL WATTLES ALONG LINEAR CONSTRUCTION OF SD
3. PROVIDE POSITIVE DRAINAGE TO TEMPORARY SEDIMENT BASIN DURING ALL GRADING ACTIVITIES
4. OFFSITE GRADING AND ROADWAY IMPROVEMENTS ARE TO BE COMPLETED BY OTHERS. COORDINATION OF OFFSITE BMP'S WITH PROPOSED ONSITE BMP'S SHALL BE REQUIRED BY THE CONTRACTOR(S)

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
EROSION CONTROL NOTES



PROJECT NO.
EMNRD-MMD-2025-01

ZONE MAP NO.
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15 OF
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LAST DESIGN UPDATE

MO./DAY/YR.	MO./DAY/YR.

