

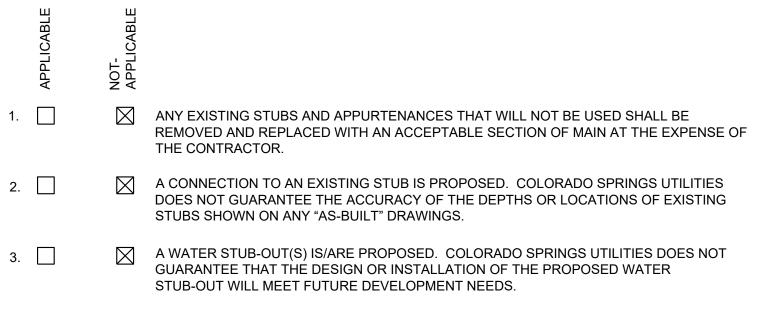
WATER PLAN NOTES

THE CONTRACTOR SHALL NOTIFY COLORADO SPRINGS UTILITIES' INSPECTIONS OFFICE 719-668-4658 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

GENERAL:

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET COLORADO SPRINGS UTILITIES' WATER LINE EXTENSION AND SERVICE STANDARDS (WATER LESS).
- 2. THE CONTRACTOR SHALL OBTAIN LOCATES PRIOR TO ANY EXCAVATION.
- 3. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, HYDRANTS, VALVES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER OF RECORD IMMEDIATELY.
- 4. NO TREES OR STRUCTURES ARE PERMITTED WITHIN FIFTEEN FEET (15') OF A WATER MAIN.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF COLORADO SPRINGS UTILITIES.
- 6. ALL FIELD STAKING SHALL COMPLY WITH THE WATER LESS.
- 7. THE CONTRACTOR SHALL MAKE THEIR BEST EFFORT TO ENSURE THAT WATER SERVICE TO ADJACENT PROPERTIES IS MAINTAINED DURING CONSTRUCTION.
- 8. CORROSION PROTECTION MEASURES SHALL COMPLY WITH THE WATER LESS.
- 9. NO SERVICE TAPS WILL BE ALLOWED UNTIL THE MAIN IS EXTENDED TO THE NEXT MAIN-LINE VALVE.
- 10. NO SERVICE TAPS SHALL BE MADE UNTIL AUTHORIZATION HAS BEEN GRANTED BY THE COLORADO SPRINGS UTILITIES' INSPECTOR.
- 11. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION AND THE STATIONING ON THE FIELD STAKES SHALL MATCH THE STATIONING ON THE PLANS. 12. FIELD MODIFICATIONS TO A FIRE SERVICE LINE OR FIRE HYDRANT DESIGN OR LOCATION MAY NEED TO BE APPROVED BY THE DESIGN ENGINEER, COLORADO SPRINGS FIRE DEPARTMENT AND COLORADO SPRINGS UTILITIES, AS REQUIRED BY THE INSPECTOR.
- 13. REUSE OR SALVAGE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE COLORADO SPRINGS UTILITIES INSPECTOR.
- 14. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL
- 15. ALL WATER SERVICE LINES SHOULD ENTER THE BUILDING WITHIN 5 FEET OF AN EXTERIOR WALL. EXPOSED WATER PLUMBING SHALL BE MINIMIZED INSIDE THE BUILDING PRIOR TO THE WATER METER AND/OR APPROVED BACKFLOW PREVENTION ASSEMBLY OR METHOD.

WATER PROJECT - SPECIFIC NOTES



A WATER QUALITY PLAN HAS BEEN APPROVED FOR THIS PROJECT

UTILITY SERVICE PLAN NOTES

THE CONTRACTOR SHALL NOTIFY COLORADO SPRINGS UTILITIES' INSPECTIONS OFFICE 719-668-4658 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

GENERAL

4.

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET COLORADO SPRINGS UTILITIES' WASTEWATER AND WATER LINE EXTENSION AND SERVICE STANDARDS (WATER/WASTEWATER LESS)
- 2. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, MANHOLES, HYDRANTS, VALVES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE DESIGN ENGINEER IMMEDIATELY. 3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY
- TO THE SATISFACTION OF COLORADO SPRINGS UTILITIES.
- 4. ALL FIELD STAKING SHALL COMPLY WITH THE WATER/WASTEWATER LESS
- 5. CORROSION PROTECTION MEASURES SHALL COMPLY WITH THE WATER/WASTEWATER LESS.
- 6. FINAL LOCATION OF ALL WASTEWATER AND WATER SERVICES SHALL BE APPROVED IN THE FIELD BY THE COLORADO SPRINGS UTILITIES INSPECTOR. 7. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL AND SECTION 5.18 OF THE WATER LESS.

WASTEWATER:

- 1. SERVICE STUBS SHALL BE INSTALLED A MINIMUM OF SEVEN FEET (7') INTO THE PROPERTY, UNLESS OTHERWISE SHOWN, AND THE END OF THE STUB SHALL BE MARKED WITH A 2"X4"X12' STEEL OR WOODEN POST.
- 2. SERVICES SHALL BE CONNECTED A MINIMUM OF FIVE FEET (5') FROM THE OUTSIDE EDGE OF ANY MANHOLE ON THE MAIN LINE AND SHALL MAINTAIN TWO FEET (2') OF SEPARATION BETWEEN TAPS CENTER TO CENTER.
- 3. ALL CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LINE.
- 4. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT WHEN ANY SEPTIC TANK IS TO BE ABANDONED AND PAY ALL FEES NECESSARY TO OBTAIN A PERMIT.

WATER:

- 1. SERVICE STUBS SHALL BE INSTALLED WITH THE CURB STOP AT OR NEAR PROPERTY LINE AND SHALL NOT BE INSTALLED WITHIN DRIVEWAYS OR SIDEWALKS (SEE DETAIL DRAWING B2-3). 2. SERVICE TAPS SHALL BE MADE A MINIMUM OF THREE FEET (3') FROM THE BELL OR APPURTENANCE ON THE WATER MAIN. TAPS SHALL BE A MINIMUM OF THREE FEET (3') APART ON THE SAME
- SIDE OF THE WATER MAIN AND A MINIMUM OF ONE-AND-A-HALF FEET (1.5') WHEN TAPS ARE MADE ON OPPOSITE SIDES OF THE WATER MAIN. 3. ALL SERVICES FOR COMMERCIAL USE AND SOME RESIDENTIAL USES REQUIRE INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY IMMEDIATELY AFTER THE METER. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH OF THE UNIVERSITY OF SOUTHERN CALIFORNIA
- (USC-FCCCHR) AND INSTALLED IN ACCORDANCE WITH THIS LISTING. PLEASE REFERENCE THE WATER LINE EXTENSION STANDARDS FOR ADDITIONAL REQUIREMENTS. 4. ALL TAPS ON COLORADO SPRINGS UTILITIES WATER MAINS SHALL BE PERFORMED BY COLORADO SPRINGS UTILITIES. ALL OTHER TAPS SHALL BE PERFORMED BY THE CONTRACTOR. 5. ANY ABANDONED SERVICES MUST BE PHYSICALLY DISCONNECTED AT THE MAIN. ANY NECESSARY REPAIRS TO THE MAIN AND/OR SHUT DOWN OF THE TAPPING VALVE SHALL BE AS DIRECTED BY COLORADO SPRINGS UTILITIES.
- 6. ALL WATER SERVICE LINES SHOULD ENTER THE BUILDING WITHIN 5 FEET OF AN EXTERIOR WALL. EXPOSED WATER PLUMBING SHALL BE MINIMIZED INSIDE THE BUILDING PRIOR TO THE WATER METER AND/OR APPROVED BACKFLOW PREVENTION ASSEMBLY OR METHOD.
- 7. ALL HDPE WATER SERVICE LINES MUST EXTEND A MINIMUM OF 6 INCHES ABOVE THE FLOOR AND BE 90 DEGREES FROM THE FLOOR PLAN TO ALLOW FOR BRACING AND TRANSITION TO THE METER LOOP ASSEMBLY.

LEGAL DESCRIPTION:

A portion of the parcel described in that Quitclaim Deed, recorded January 22, 2020 under Reception No. 220009194, in the Official Public Records of El Paso County, Colorado, located in the Northwest 1/4 of Section 22, Township 13 South, Range 68 West, of the 6th P.M., being more particularly described as follows,

COMMENCING at the Center 1/4 Corner of said Section 22; thence along the south line of the Southeast 1/4 of the Northwest 1/4 of said Section 22, N88°57'03"W, (Bearings are based on the south line of the Southeast 1/4 of the Northwest 1/4 of said Section 22, monumented at the Center 1/4 Corner of said Section 22 by a 1" iron pipe with a 2-1/2" brass cap stamped "1938 U.S. GENERAL LAND OFFICE SURVEY", 0.5' above grade and monumented at the West Center 1/16 Corner by a 1" iron pipe with a 2-1/2" brass cap stamped 1938 U.S. GENERAL LAND OFFICE SURVEY", flush with grade, having a measured bearing of N88°57'03"W, a distance of 1301.48 feet), a distance of 234.34 feet to the southeast corner of said parcel, being the POINT OF BEGINNING; thence continuing along said south line of the Southeast 1/4 of the Northwest 1/4 of said Section 22, N88°57'03"W, a distance of 1067.14 feet to the West 1/16 Corner of said Section 22; thence along the North-South Center line of the Northwest 1/4 of said Section 22, N01°07'31"W, a distance of 932.25 feet; thence leaving said North-South Center line, N88°52'29"E, a distance of 182.97 feet; thence N01°08'07"W, a distance of 353.05 feet; thence N41°49'19"W, a distance of 283.92 feet to a point on south right-of-way line of Nampa Road; thence along the south right-of-way line of said Nampa Road, the following seven (7) courses:

- 1. N48°13'23"E, a distance of 60.11 feet;
- 2. along the arc of a non-tangent curve to the right, whose center bears N48°07'42"E, having a radius of 23.65 feet, a central angle of 115°53'06", a distance of 47.83 feet; 3. N73°46'14"E, a distance of 315.39 feet;
- 4. along the arc of a non-tangent curve to the left, whose center bears N16°10'04"W, having a radius of 245.85 feet, a central angle of 38°16'52", a distance of 164.26 feet;
- 5. along the arc of a reverse curve to the right, whose center bears S54°53'21"E, having a radius of 303.82 feet, a central angle 14°01'04", a distance of 74.33 feet;
- 6. N49°31'01"E, a distance of 285.03 feet; 7. along the arc of a non-tangent curve to the left, whose center bears N40°28'22"W, having a radius of 364.10 feet, a central angle of 23°57'14", a distance of 152.22 feet, to a point on the southeast line of that Right-of-Way Vacation recorded under Book 3122 Page 824 in the Official Public Records of El Paso County, Colorado;

Thence continuing along said southeast line of said Right-of-Way Vacation, N25°35'01"E, a distance of 134.87 feet; thence S64°25'10"E a distance of 27.90 feet; thence N25°34'50"E a distance of 134.68 feet; thence N64°25'10"W a distance of 27.90 feet to a point on the south right-of-way line of Nampa Road; thence along said south right-of-way line, the following five (5) courses:

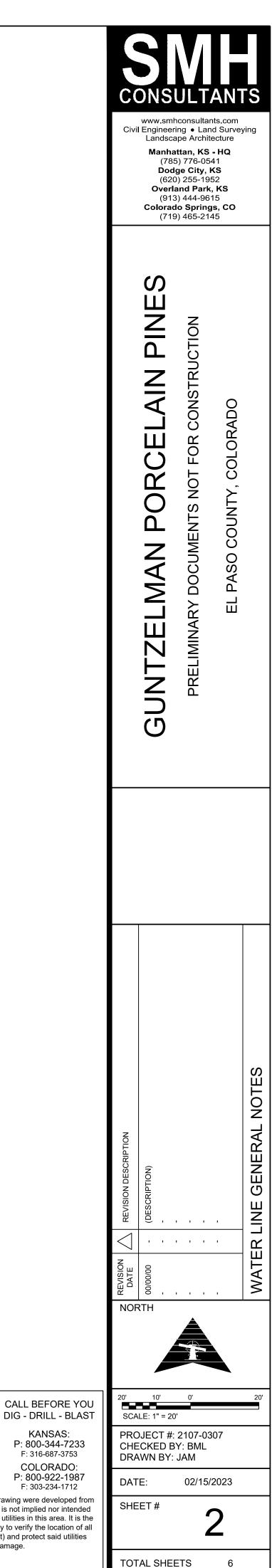
- 1. along the arc of a non-tangent curve to the right, whose center bears S64°28'18"E, having a radius of 59.60 feet, a central angle of 95°53'57", a distance of 99.76 feet;
- 2. S58°29'48"E, a distance of 40.03 feet; 3. along the arc of a non-tangent curve to the left, whose center bears N31°15'02"E, having a radius of 96.71 feet, a central angle of 48°28'43", a distance of 81.83 feet;
- 4. N72°58'37"E, a distance of 67.62 feet; 5. along the arc of a non-tangent curve to the left, whose center bears N12°19'30"W, having a radius of 96.71 feet, a central angle of 22°07'11", a distance of 37.34 feet, to a point on the west line of Pikes Peak Mountain Estates, recorded November 5, 2001 under Reception No. 201161507;
- Thence continuing along said west line of Pikes Peak Mountain Estates, the following two (2) courses:
- 1. S18°49'36"E, a distance of 138.79 feet;

2. S35°59'27"W, a distance of 515.72 feet, to a point on the west right-of-way line of Pikes Peak Toll Road;

- Thence continuing along said west right-of-way line of Pikes Peak Toll Road, the following, thirteen (13) courses:
- 1. Along the arc of a non-tangent curve to the left, whose center bears S11°39'01"E, having a radius of 193.42 feet, a central angle of 64°29'48", a distance of 217.73 feet;
- 2. S13°45'10"W, a distance of 216.22 feet; 3. Along the arc of a non-tangent curve to the left, whose center bears S76°02'47"E, having a radius of 1005.40 feet, a central angle of 11°10'16", a distance of 196.03 feet;
- 4. S02°43'25"W, a distance of 173.36 feet; 5. Along the arc of a non-tangent curve to the left, whose center bears S87°14'50"E, having a radius of 460.30 feet, a
- central angle of 17°26'00", a distance of 140.06 feet; 6. S14°46'15"E, a distance of 167.06 feet;
- 7. Along the arc of a non-tangent curve to the left, whose center bears S74°40'19"E, having a radius of 338.00 feet, a central angle of 31°57'04", a distance of 188.49 feet; 8. S45°59'03"E, a distance of 171.85 feet
- 9. Along the arc of a non-tangent curve to the right, whose center bears S43°26'18"E, having a radius of 238.00 feet, a central angle of 31°14'04", a distance of 129.74 feet; 10. S15°27'25"E, a distance of 155.45 feet;
- 11. Along the arc of a non-tangent curve to the right, whose center bears S74°31'58"E, having a radius of 238.00 feet, a central angle of 19°18'37", a distance of 80.21 feet;
- 12. S43°26'18"E, a distance of 46.77 feet; 13. Along the arc of a non-tangent curve to the left, whose center bears S86°04'29"E, having a radius of 363.70 feet, a central angle of 09°00'56", a distance of 57.23 feet, to the POINT OF BEGINNING.

BENCHMARK:

SURVEY CONTROL POINT AND PROPERTY CORNER AS SHOW HEREON.





KANSAS: P: 800-344-7233 F: 316-687-3753 COLORADO: P: 800-922-1987 F: 303-234-1712

The utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.

LEGEND

	EXISTING LOT LINE
EXISTISS EXISTISS	EXISTING SANITARY SEWER
EXIST W EXIST W	EXISTING WATER LINE
— EXIST ST ——— EXIST ST ———	EXISTING STORM SEWER
w w	PROPOSED WATER LINE
G G	EXISTING GAS LINE
	ROAD CENTERLINE
- x — x — x — x — x —	FENCE
6941	1' CONTOUR INTERVAL (EXISTING GROUND)
6940	5' CONTOUR INTERVAL (EXISTING GROUND)
S	EXISTING SANITARY SEWER MANHOLE
\mathcal{O}	EXISTING FIRE HYDRANT
\odot_{WV}	EXISTING WATER VALVE
\odot_{WM}	PROPOSED WATER METER
\bowtie	PROPOSED CURB STOP
Т	TELEPHONE PEDESTAL
\bigcirc	TREE/SHRUBS
0	MONUMENT FOUND
A/E	ACCESS EASEMENT
D/E	DRAINAGE EASEMENT
U/E	UTILITY EASEMENT

NOTES:

1. DO NOT EXCEED 4° DEFLECTION AT JOINTS. FOR THE PURPOSE OF THESE PLANS, DEFLECTIONS HAVE BEEN SPACED EVERY 20' AS NECESSARY.

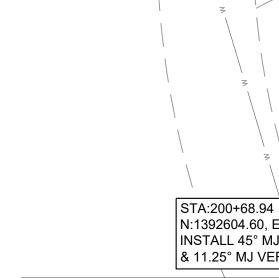
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" WATERLINE AT STATION 200+00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT THEIR FINDINGS TO THE ENGINEER, SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THIS PROJECT.

CAUTION - NOTICE TO CONTRACTORS:

. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

COLORADO SPRINGS UTILITIES WATER PLAN DESIGN APPROVAL					
PROJECT NUMBER: 2021-W057					
WORK ORDER NUMBER: 3721812					
CSU SHEET OF					
APPROVAL EXPIRES ONE (1) YEAR FROM THE DATE ABOVE AND RESUBMITTAL (THESE PLANS FOR REVIEW AND APPROVAL IS REQUIRED IF CONSTRUCTION DO NOT BEGIN DURING THIS PERIOD.					



STA:200+48.43 N:1392623.18, E:3146038.06 INSTALL 11.25° MJ VERTICAL BEND STRUCTURE - (30)

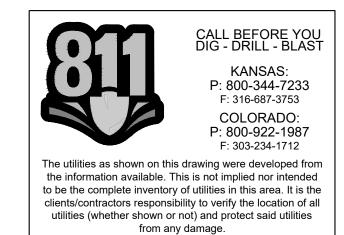
STA:200+20.00

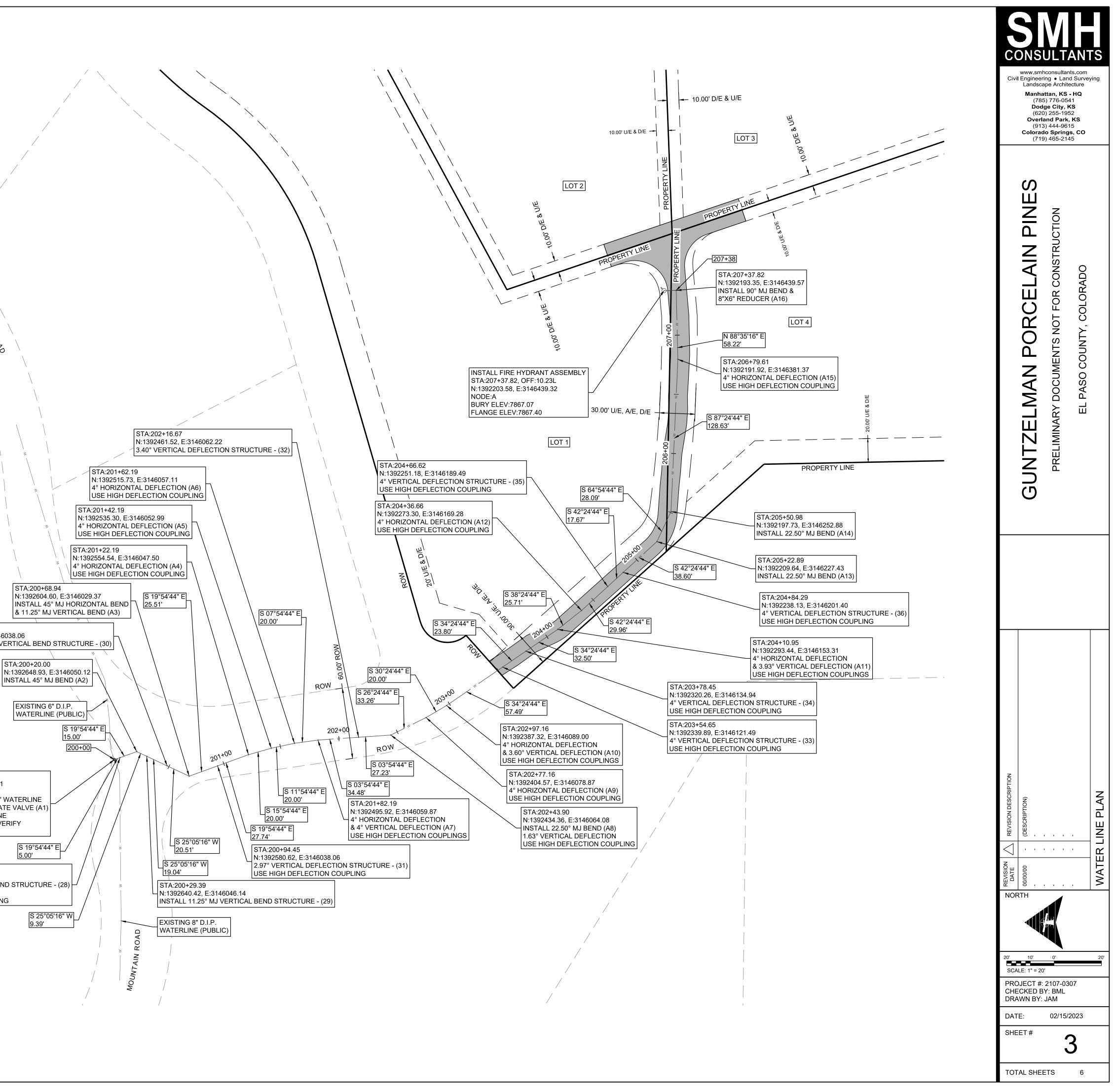
STA:200+00.00 N:1392667.73, E:3146043.31 BEGIN WATERLINE A CONNECT TO EXISTING 8" WATERLINE INSTALL 8" MJ TEE & 8" GATE VALVE (A1) 8" PUBLIC PVC WATER LINE CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION

5.00'

STA:200+05.00 N:1392663.03, E:3146045.01

INSTALL 11.25° MJ VERTICAL BEND STRUCTURE - (28) 4° VERTICAL DEFLECTION USE HIGH DEFLECTION COUPLING







MANDATORY DESIGN REQUIREMENTS:

THRUST BLOCK DIMENSIONS and VOLUMES - PVC & DIP 250 psi MINIMUM

- ALL DRIVE AISLES AND UTILITY INSTALLATIONS SHALL BE IN ACCORDANCE WITH CITY SPECIFICATIONS AND THE COLORADO SPRINGS UTILITIES' LINE EXTENSION & SERVICE STANDARDS. THE GAS MAIN MAY BE CENTERED IN THE DRIVE AISLE AS DIRECTED BY COLORADO SPRINGS UTILITIES FIELD ENGINEERS.
- ELECTRIC CONDUIT IS REQUIRED FOR ALL SECONDARY SERVICE CONDUCTORS. THE DEVELOPER/CONTRACTOR SHALL PROVIDE AND INSTALL THE SECONDARY SERVICES WITH THE APPROVAL AND INSPECTION BY COLORADO SPRINGS
- UTILITIES FIELD ENGINEERS. ADEQUATE SPACE FOR TRANSFORMERS SHALL BE PROVIDED OUTSIDE THE DRIVE AISLE AND THE LOCATION OF THE TRANSFORMER MUST BE APPROVED BY COLORADO SPRINGS UTILITIES FIELD ENGINEERS, BOLLARDS MAY BE REQUIRED FOR THE
- PROTECTION OF ELECTRICAL EQUIPMENT AND/OR TRANSFORMERS. REFERENCE THE ELECTRIC LINE EXTENSION & SERVICE STANDARDS APPENDIX F STANDARD 15-2 AND 18-302. BOLLARDS ARE REQUIRED FOR THE PROTECTION OF GAS METERS. REFERENCE THE GAS LINE EXTENSION & SERVICE STANDARDS

WASTEWATER:

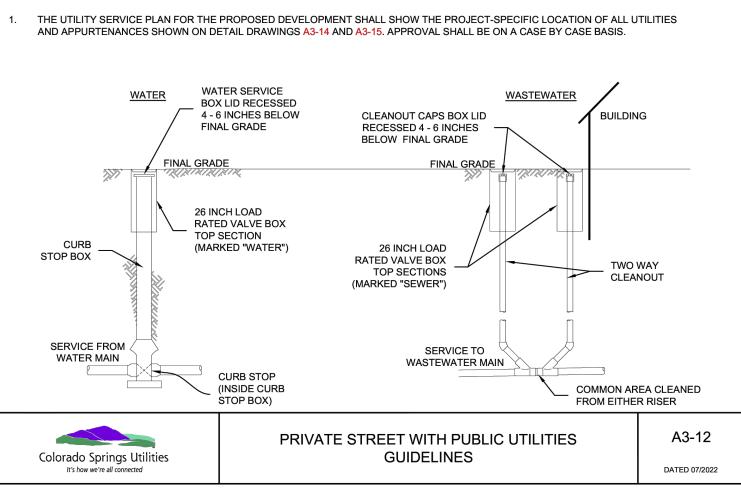
FIGURE 10.

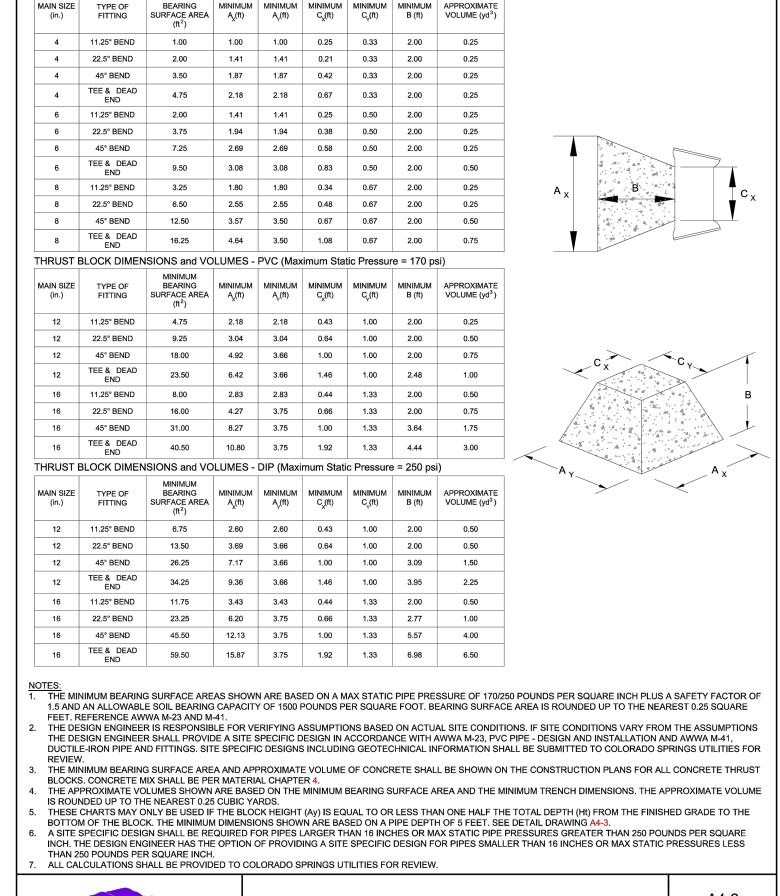
- THE DIAMETER OF THE WASTEWATER MAIN SHALL NOT BE GREATER THAN 8 INCHES. THE MAXIMUM DEPTH OF THE WASTEWATER MAIN SHALL NOT BE GREATER THAN 14 FEET MEASURED FROM FINAL GRADE
- (PAVEMENT) TO THE WASTEWATER PIPE INVERT. COLORADO SPRINGS UTILITIES-APPROVED, LOAD-RATED, SLIP TYPE VALVE BOX TOP SECTIONS ARE REQUIRED OVER STANDARD WASTEWATER SERVICE LINE CLEANOUTS. VALVE BOX TOPS TO BE MARKED WITH "SEWER". CLEANOUT LIDS SHALL BE RECESSED 4 TO 6 INCHES BELOW FINAL GRADE. SEE DETAIL BELOW.

WATER:

THE DIAMETER OF THE WATER MAIN SHALL NOT BE GREATER THAN 8 INCHES. COLORAOD SPRINGS UTILITIES-APPROVED, LOAD-RATED, SLIP TYPE VALVE BOX TOP SECTION ARE REQUIRED OVER STANDARD WATER STOP BOXES. CURB STOP LID SHALL BE RECESSED 3-4 INCHES BELOW FINAL GRADE. VALVE BOX TOPS TO BE MARKED WITH "WATER". SEE DETAIL BELOW.

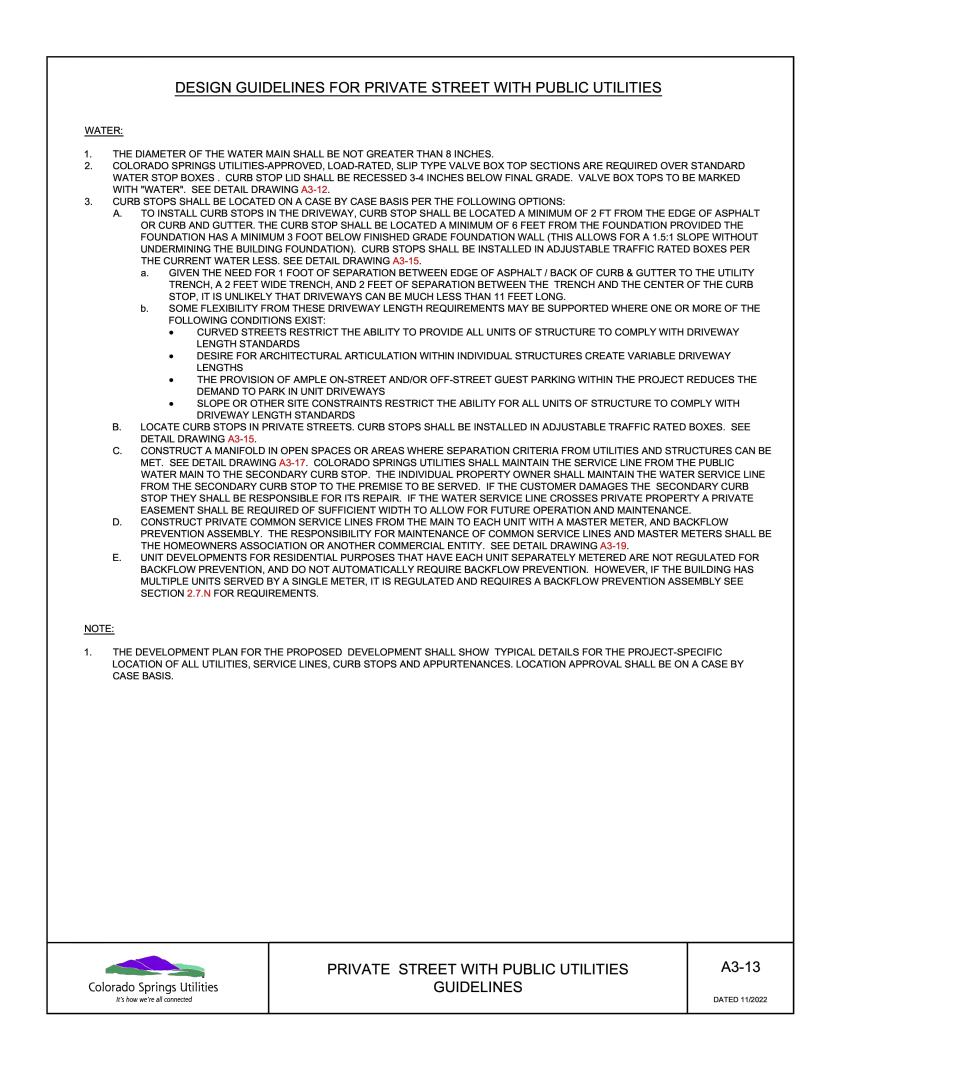
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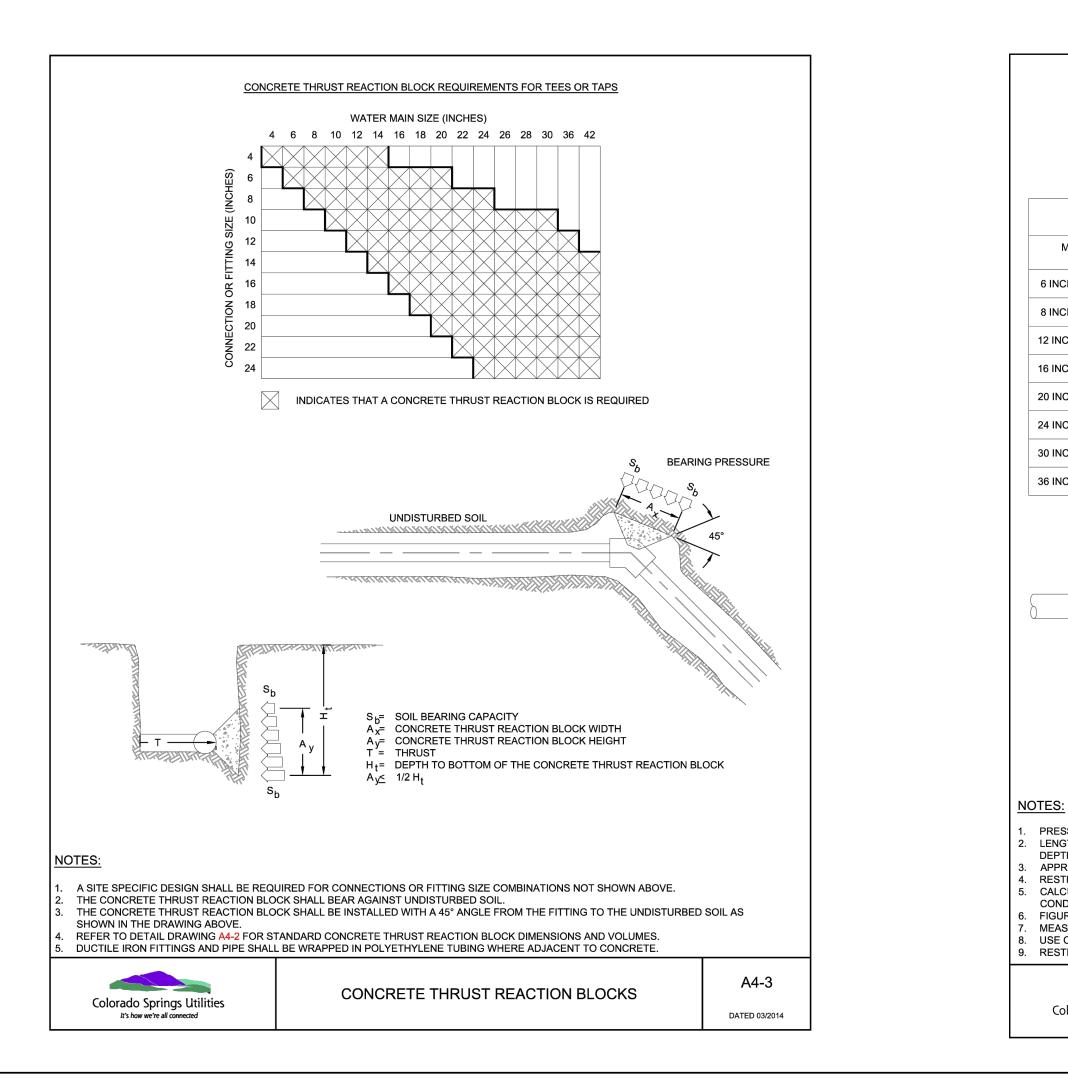


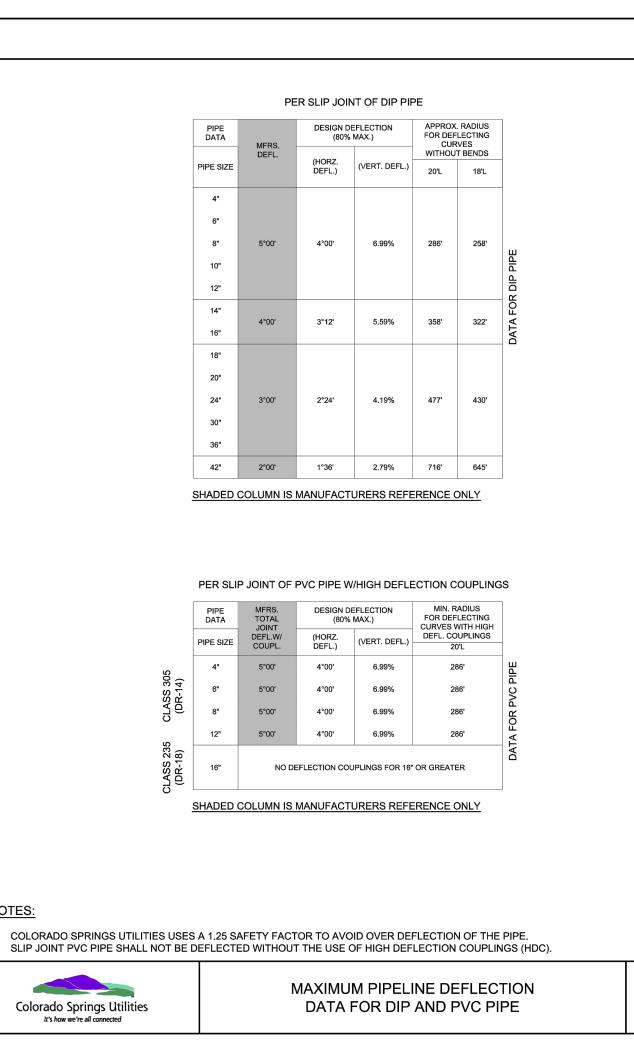


Colorado Springs Utilities It's how we're all connected

CONCRETE THRUST REACTION BLOCKS







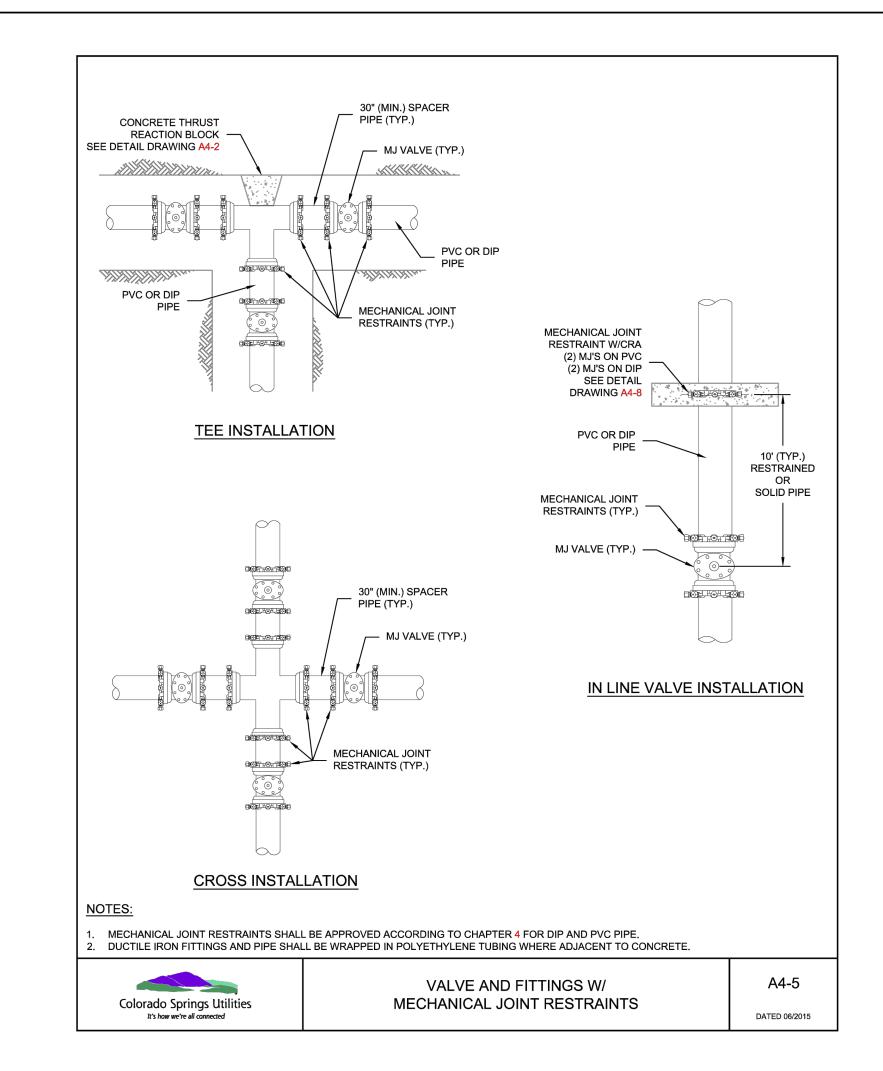
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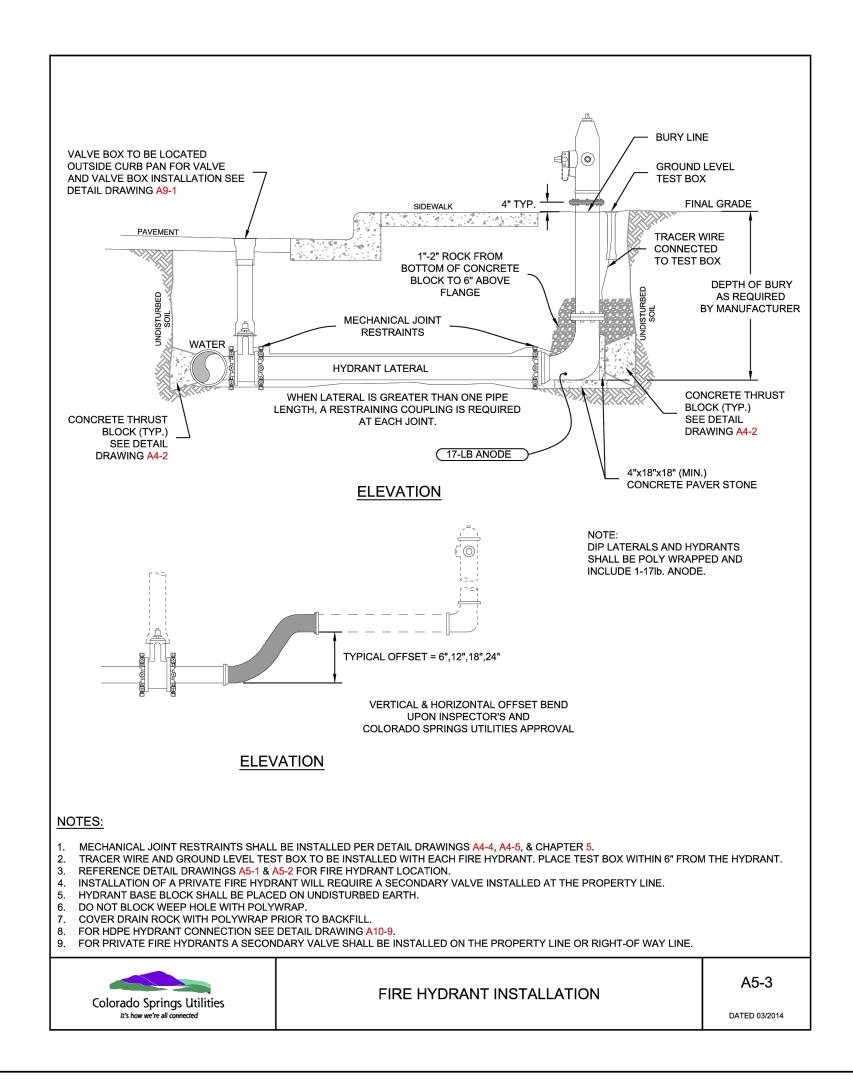
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PIPE DIAMETER			45° BEND		22-1/2° BEND		11-1/4° BEND		1D	DEAD END VALVE OR PLUG, TO INCLUDE IN-LINE VALVES (SEE NOTE 9)			
MAX. S		<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200
6 INCH	DUCTILE IRON AND PVC	6	9	12	3	5	6	2	3	3	49	73	97
8 INCH	DUCTILE IRON AND PVC	8	12	16	4	6	8	2	3	4	63	94	125
12 INCH	DUCTILE IRON AND PVC	12	17	23	6	8	11	3	4	6	89	133	177
6 INCH	DUCTILE IRON AND PVC	15	22	29	7	11	14	4	5	7	RSE	RSE	RSE
20 INCH	DUCTILE IRON AND PVC	18	26	35	9	13	17	4	6	8	REVE	CONCRETE REVERSE ANCHOR	CONCRETE REVERSE ANCHOR
24 INCH	DUCTILE IRON AND PVC	20	30	40	10	15	20	5	7	10	RETE	RETE	RETE
30 INCH	DUCTILE IRON AND PVC	24	36	48	12	18	24	6	9	12	USE CONCRETE REVERSE ANCHOR USE CONCRETE REVERSE	CONC	SONCI
36 INCH	DUCTILE IRON AND PVC	28	42	56	14	20	27	7	10	14		USE	USE
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	DELL			RESTRAI	113 (111	F.)					JOINT BEND		
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LENGTH IS DEPTH IS L APPROVED RESTRAINE CALCULATI CONDITION FIGURES A MEASUREM USE CRA F	GREATER THAN 200 PS BASED ON MINIMUM 5 F ESS THAN 5 FEET REST METHODS OF RESTRA ED PIPE LENGTH APPLIE IONS ARE BASED ON A IS - "PIPE BEDDED IN SA RE BASED ON DIP WRA MENTS ARE IN FEET. OR DOWN TURNING BE ED LENGTH FOR DEAD F	EET OF GI RAINED LE INED PIPE S TO CONI POORLY G AND, GRAV PPED IN P NDS.	Round C Ingth Mi Beyond Ditions V Raded S Yel or Ci Olyethy	OVER ANI JST BE DE INITIAL FI WHERE NG GANDS, GF RUSHED S (LENE MA)	D SOIL C ESIGNED TTING SI D CONCF RAVEL AI STONE T TERIAL.	OMPACTE BY THE E HALL BE II RETE THR ND GRAVE O A DEPT	ED ACCOR DESIGN EN N ACCORE UST REAC EL-SAND N H OF 1/8 F	DING TO IGINEER DANCE W TION BL MIXTURE PIPE DIAN	CHAPTEF ITH CHAP OCK IS PF , LITTLE C METER (4"	R 5 OF TH TER <mark>4</mark> . RESENT. PR NO FIN MIN.)." F <i>I</i>	ESE WAT ES, TYPE	ER LESS. 4 BEDDII	IF THE
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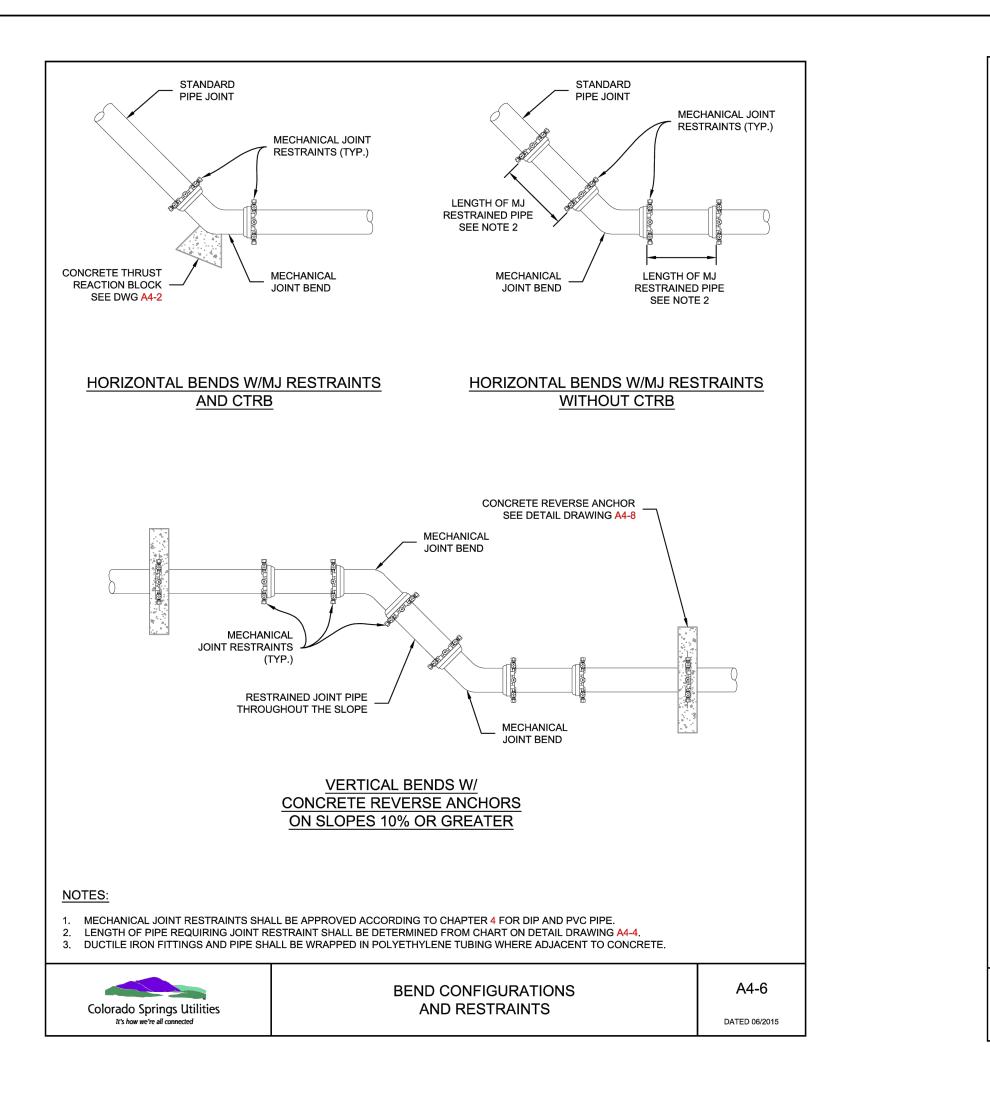
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	GUNTZELMAN PORCELAIN PINES	PRELIMINARY DOCUMENTS NOT FOR CONSTRUCTION	EL PASO COUNTY, COLORADO	
REVISION ATE REVISION DESCRIPTION	E 00/00/00 - (DESCRIPTION)	1 I I		WATER LINE DETAILS
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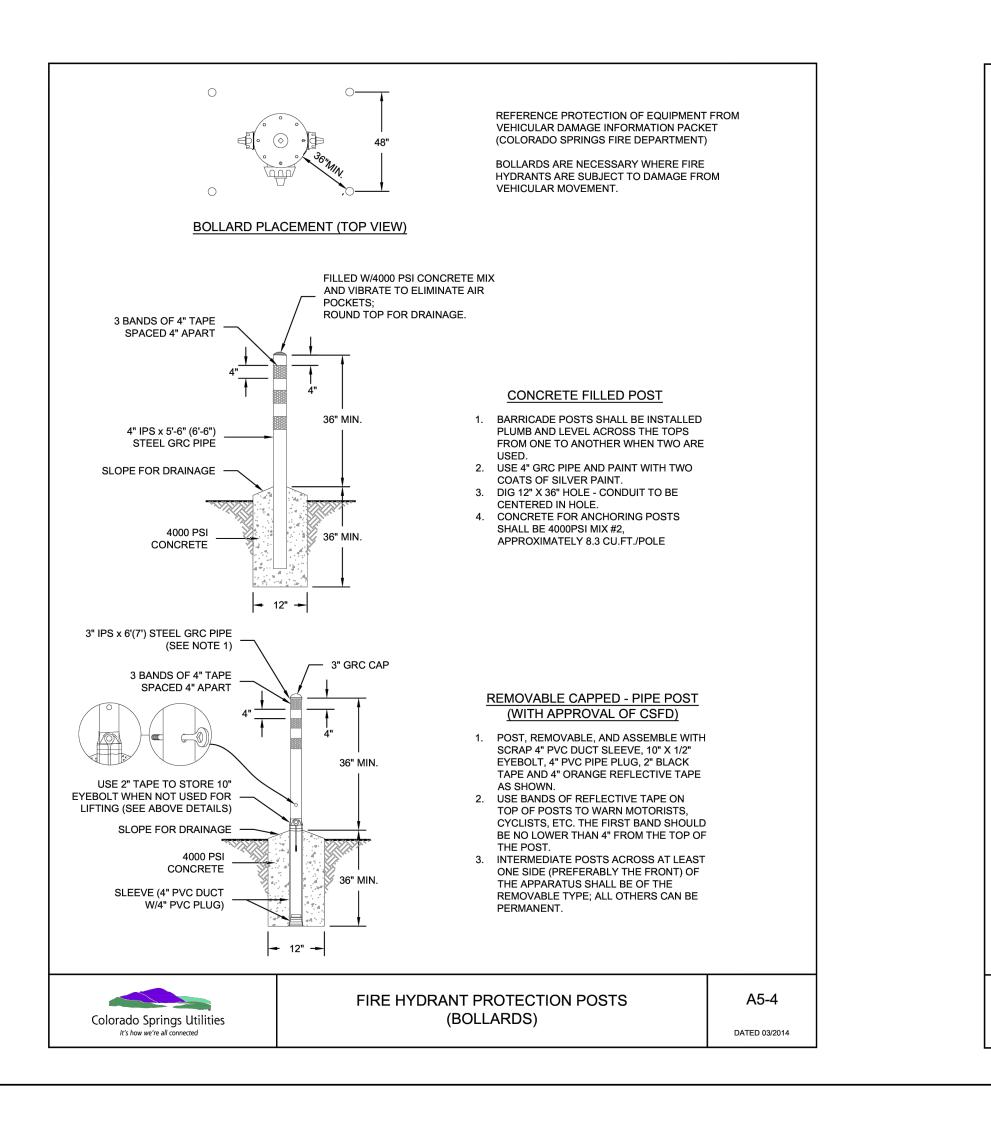
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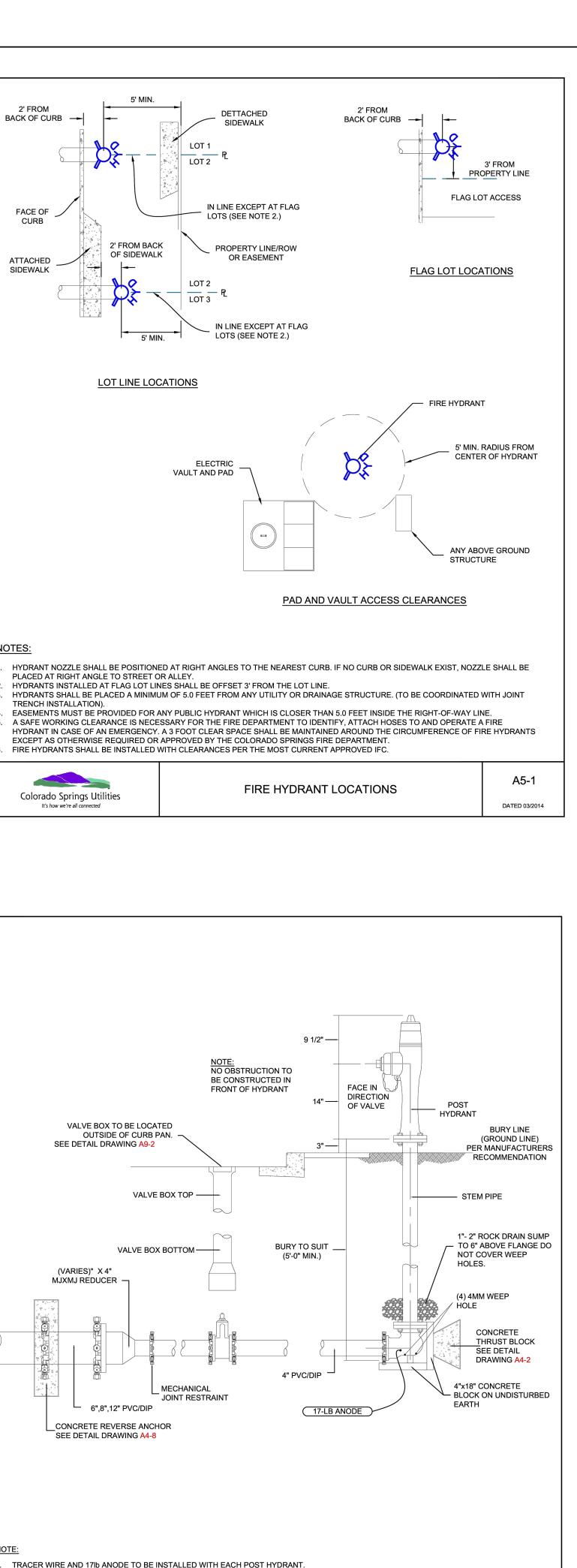
DATED 03/2014





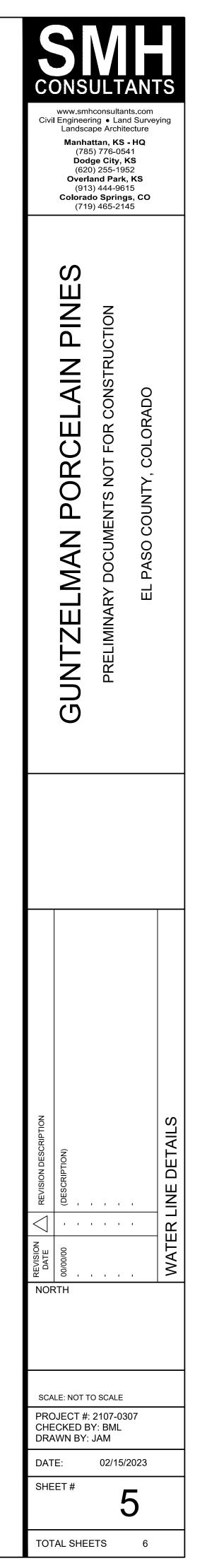






NOTES:

NOTE:



POST HYDRANT DETAIL FOR USE ON TEMPORARY OR PERMANENT DEAD ENDS

WHEN LATERAL IS GREATER THAN ONE PIPE LENGTH A RESTRAINING COUPLING IS REQUIRED AT EACH JOINT.

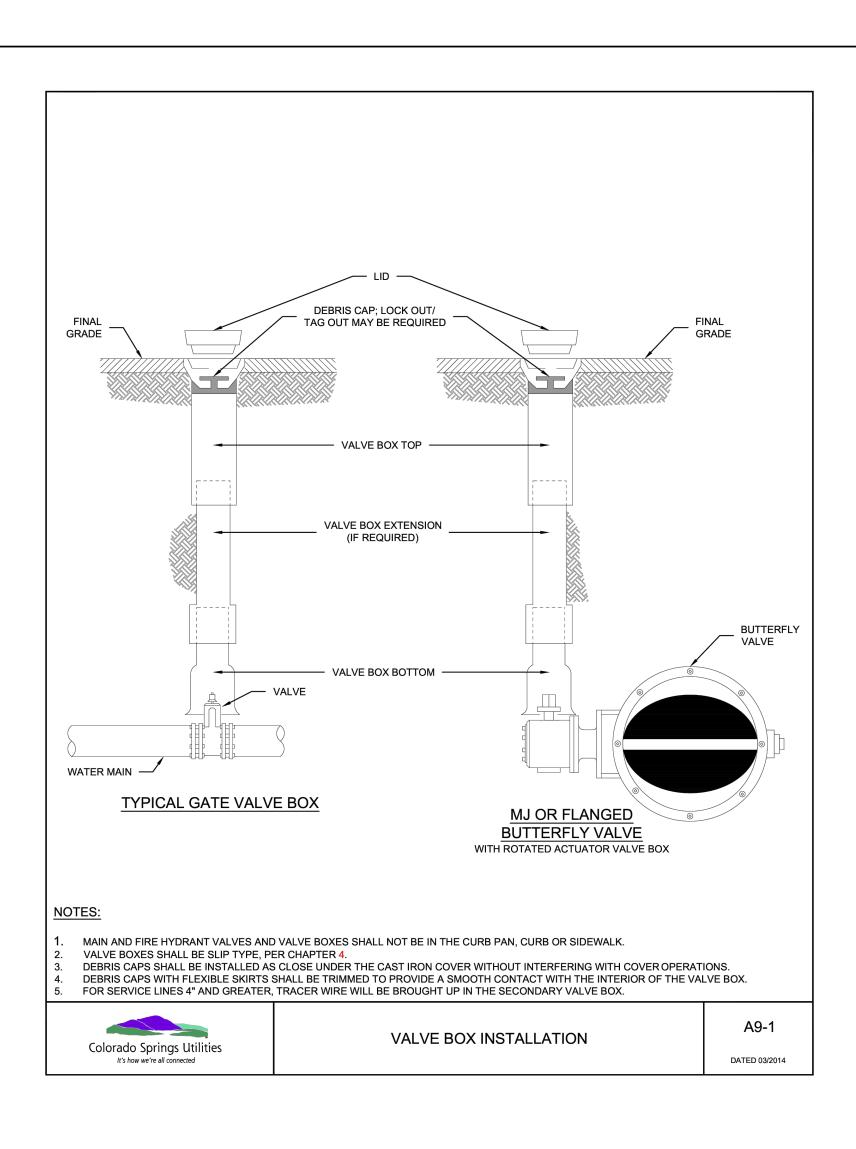
MAINTAIN 5' MIN. CLEARANCE AROUND POST HYDRANT FROM ABOVE GROUND STRUCTURE/VAULTS.

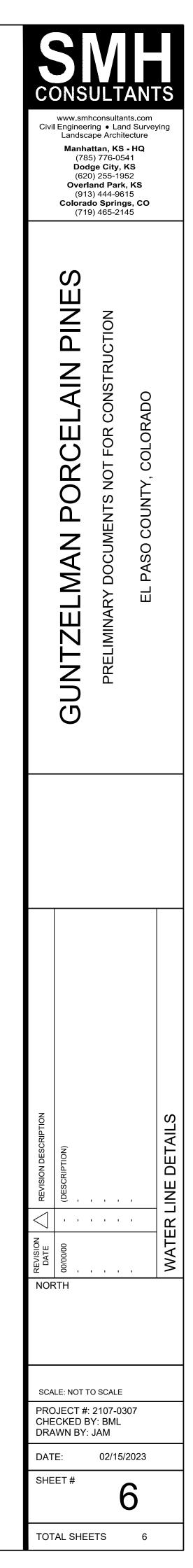
4. REFERENCE DETAIL DRAWING A5-1 FOR POST HYDRANT LOCATION.

Colorado Springs Utilities

It's how we're all connected

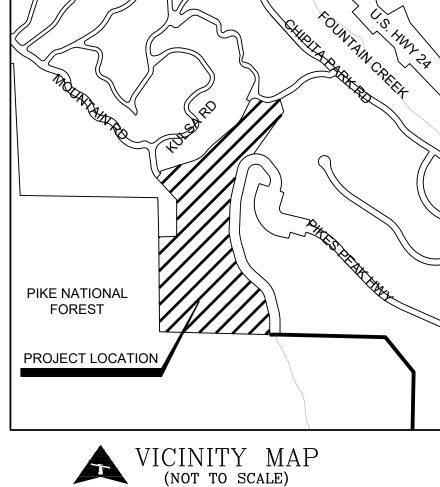
Add the County's Standard Utility Trech Repair Detail. See ECM Appendix F.





remove GEC from CD file. GEC comments provided with GEC Plan_v1

GUNTZELMAN PORCELAIN PINES SUBDIVISION GRADING AND EROSION CONTROL PLAN COUNTY OF EL PASO, STATE OF COLORADO FEBRUARY 2023



GENERAL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ADJACENT TO THE SITE. THE OMISSION FROM, OR INCLUSION OF, UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES
- THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES, BUILDINGS, FENCES, AND ROADWAYS FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE ABOVE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- GRADING SHALL BE COMPLETED TO A SUBGRADE TOLERANCE OF PLUS OR MINUS 0.2 CONTRACTOR SHALL OBTAIN COPIES OF THE SOULS REPORT FROM THE GEOTECHNICAL ENGINEER AND THEY SHALL BE KEPT ONSITE DURING ALL EARTHWORK
- THE SITE SHALL BE STRIPPED A MINIMUM OF 0.5' BELOW EXISTING GRADE, OR AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ONLY APPLICABLE IN PREVIOUSLY UNDISTURBED AREAS. AREA OF PROPOSED DETAILED GRADING HAS ALREADY BEEN DISTURBED
- MAXIMUM CUT/FILL SLOPES SHALL NOT EXCEED 2:1. DUST CONTROL SHALL BE SUPPLIED BY THE GRADING CONTRACTOR THROUGH THE DURATION OF THE PROJECT PER THE COUNTY HEALTH DEPARTMENT
- SPECIFICATIONS

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- d. CDOT M & S STANDARDS NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS
- NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDIATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO 10. PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE 12. ARE NOT ALLOWED WITHIN SITE TRIANGLES
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITH THE RIGHT-OF-WAY AND SPECIAL
- TRANSPORT PERMITS THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING OR CONSTRUCTION.



The utilities as shown on this drawing were developed from

to be the complete inventory of utilities in this area. It is the

the information available. This is not implied nor intended

clients/contractors responsibility to verify the location of all

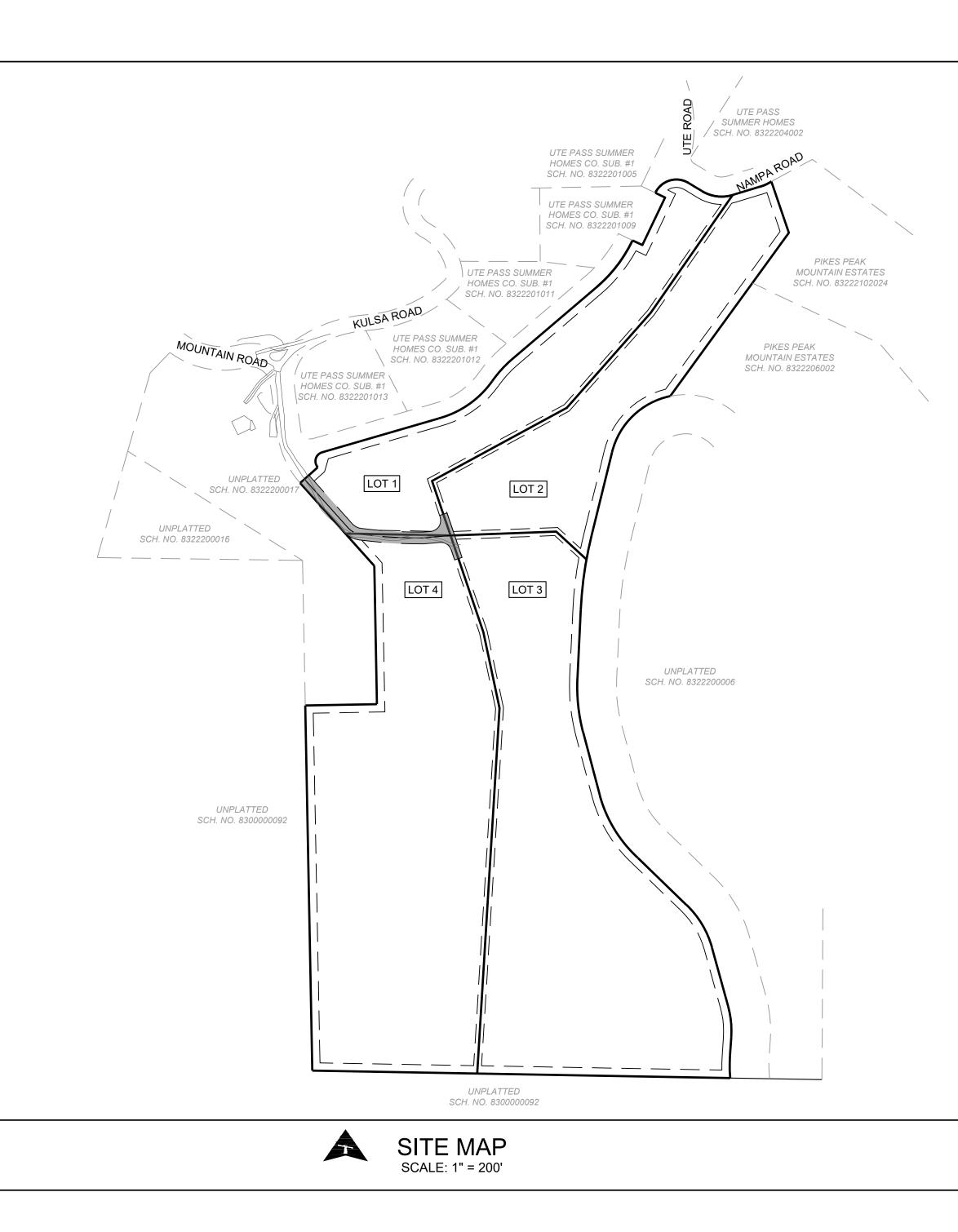
utilities (whether shown or not) and protect said utilities

from any damage.

CALL BEFORE YOU DIG - DRILL - BLAST KANSAS P: 800-344-7233 F: 316-687-3753 COLORADO: P: 800-922-1987 F: 303-234-1712

CAUTION - NOTICE TO CONTRACTORS: ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE

- UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



EROSION CONTROL COST ESTIMATE							
ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT			
PERMANENT/TEMPORARY SEEDING	0.63	AC	\$600.00	\$378.00			
PERMANENT/TEMPORARY MULCHING	0.63	AC	\$500.00	\$315.00			
PERMANENT/TEMPORARY EROSION CONTROL BLANKET	3058	SY	\$6.00	\$18,348.00			
VEHICLE TRACKING CONTROL	1	EA	\$2,250.00	\$2,250.00			
SILT FENCE	1639	LF	\$2.50	\$4,097.50			
ROCK CHECK DAM	1	EA	\$500.00	\$500.00			
CULVERT INLET PROTECTION	1	EA	\$150.00	\$150.00			
CONCRETE WASHOUT	1	EA	\$760.00	\$760.00			
STABILIZED STAGING AREA	1	EA	\$5,900.00	\$5,900.00			
SUB-TOTAL				\$32,698.50			
MAINTENANCE (35% OF CONSTRUCTION)				\$11,444.48			
TOTAL				\$44,142.98			

SMH CONSULTANTS DOES NOT GUARANTEE THAT THE CONSTRUCTION COSTS WILL NOT VARY FROM THIS CONSTRUCTION COST OPINION

AGENCIES

5381 SUGAR CAMP ROAD MILFORD, OH 45150 (513) 722-4343 (719) 332-5856 CIVIL ENGINEEF BRETT LOUK SMH CONSULTANTS, P.A. 411 SOUTH TEJON STREET, SUITE I COLORADO SPRINGS, CO 80903 (719) 465-2145 (719) 668-8262 SURVEYOR FIRE DISTRICT TIM SLOAN KAREN BODINE SMH CONSULTANTS, P.A. 411 S TEJON STREET, SUITE I COLORADO SPRINGS CO 80903 CASCADE, CO 80809 465-2145 (719) 684-9549 COUNTY ENGINEERING: LUPE PACKMAN EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT GEC COVER 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-7550

GAS: BOB SWATEK BLACK HILLS ENERGY **198 COUNTY LINE ROAD** PALMER LAKE, CO 80133

COLORADO SPRINGS UTILITIES 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO 80903

CASCADE FIRE PROTECTION DISTRICT 8015 SEVERY AVE, PO BOX 366

OWNER/DEVELOPER:

RISTIAN & CHRISTA GUNTZELMAN

GEC PLAN GEC NOTES AND GEC DETAILS 4 - 5 GEC DETAILS

INDEX OF SHEETS

DATE

DATE

DATE

ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

BRETT LOUK, COLORADO P.E. #

OWNER'S/DEVELOPER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

KRISTIAN GUNTZELMAN

CHRISTA GUNTZELMAN

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, COUNTY ENGINEER

DATE

BASIS OF BEARINGS

BASIS OF BEARINGS IS THE SOUTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 22, TOWNSHIP 13 SOUTH, RANGE 68 WEST. MONUMENTED AT THE CENTER 1/4 CORNER BY A 1" IRON PIPE WITH A 2-1/2" BRASS CAP STAMPED "1938 U.S. GENERAL LAND OFFICE SURVEY", 0.5' ABOVE GRADE AND AT THE WEST 1/16 CENTER CORNER BY A 1" IRON PIPE WITH A 2-1/2" BRASS CAP STAMPED "1938 U.S. GENERAL LAND OFFICE SURVEY AND ASSUMED TO BEAR NORTH 88 DEGREES 58 MINUTES 46 SECONDS WEST, 1301.48 FEET.



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NORTH

PROJECT #: 2107-0307

02/15/2023

CHECKED BY: BML

DRAWN BY: JAM

TOTAL SHEETS

DATE:

SHEET #

SCALE: 1" = 200





Manhattan, KS - HQ (785) 776-0541 Dodge City, KS (620) 255-1952 Overland Park, KS

(913) 444-9615 **Colorado Springs, CO** (719) 465-2145

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LEGEND

PROPOSED PRIVATE DRIVE/DRIVEWAY

			Civ
	VTC	VEHICLE TRACKING CONTROL	
	PS	PERMANENT SEEDING	
	TS	TEMPORARY SEEDING	
	SF	SILT FENCE	
	SP	STOCKPILE PROTECTION	
	SSA	STABILIZED STAGING AREA	
	CWA	CONCRETE WASHOUT AREA	
	CIP	CULVERT INLET PROTECTION	
	SR	SURFACE ROUGHENING	
	CF	CONSTRUCTION FENCE	
(POST	SITE (CONTACTS AND PERMITS) AND WASHOUT POSTING	
	DW	DRAINAGE WAY	
	SS	STEEP SLOPES	
		PROPOSED STORM SEWER	
		LOT LINE	
		LIMITS OF CONSTRUCTION/DISTURBANCE	
		FLOW DIRECTION ARROW	
		EXISTING CONTOUR	
6934		PROPOSED CONTOUR	
			1



1. FUTURE LOT OWNERS SHALL PROVIDE AN ENGINEERED SITE PLAN AT TIME OF BUILDING PERMIT. ENGINEERED SITE PLAN AT TIME OF BUILDING PERMIT. ENGINEERED SITE PLAN SHALL INDICATE ANY REQUIRED CULVERTS FOR EACH INDIVIDUAL LOT. LOT OWNERS WILL BE RESPONSIBLE FOR INSTALLATION OF CULVERTS REQUIRED FOR THEIR DRIVEWAY AND SITE LAYOUT.

2. THE SITE IS CURRENTLY UNDEVELOPED AND HEAVILY FORESTED. SOIL DATA FOR THE PROPERTY WAS OBTAINED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY. SOILS WITHIN THE SITE ARE LEGAULT-ROCK OUTCROP, HYDROLOGIC SOIL GROUP D, AND TECOLOTE, HYDROLOGIC SOIL GROUP B.

3. PRIVATE DRIVE/DRIVEWAY CONSTRUCTION PER GEOTECH REPORT AND CASCADE FIRE DEPARTMENT SPECIFICATIONS.

4. STOCKPILE LOCATION FOR THIS PROJECT TO BE LOCATED BY CONTRACTOR AND ADDED TO THE SWMP/GEC UPON DETERMINATION.

5. LOCATION OF STORAGE FOR MAINTENANCE EQUIPMENT, CONCRETE WASHOUT, AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THE GEC/SWMP BY CONTRACTOR.

6. ALL NON-STRUCTURAL CONTROL MEASURES SUCH AS STREET SWEEPING, GOOD HOUSEKEEPING, AND ETC. SHALL BE EMPLOYED BY THE CONTRACTOR AS NECESSARY AND AS OUTLINED IN THE SWMP.

7. MAXIMUM/CUT FILL SLOPES SHALL NOT EXCEED 2:1.

8. ALL FILL MATERIAL SHALL BE APPROVED BY A LICENSED ENGINEER.

9. ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE, IF POSSIBLE.

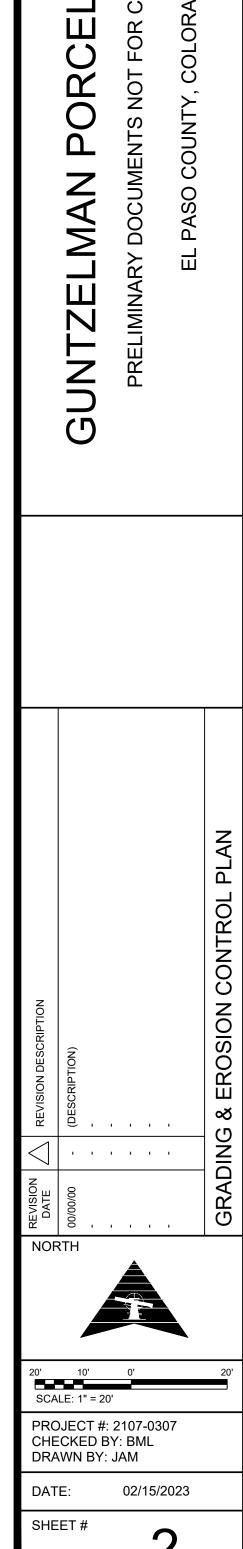
10. LOCATION OF PORTABLE TOILET, STABILIZED STAGING AREA, AND SITE (CONTACTS AND PERMITS) AND WASHOUT POSTING TO BE ADDED TO THIS PLAN AND SWMP BY CONTRACTOR.

11. CONSTRUCTION FENCE AND SILT FENCE OFFSET FOR CLARITY. CONTRACTOR TO ENSURE CCM'S ARE PLACED DOWNSTREAM OF DISTURBED AREAS TO PREVENT SEDIMENT FROM LEAVING SITE.

VERTICAL SCALE: 1" =

TOTAL SHEETS

5





remove GEC from CD file

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM 2. DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES
- FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED IN THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS
- PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND
- EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. 10. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY 11. VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNATED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH 12. DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO 13. ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE 14. RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE
- 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF 18. IMMEDIATELY THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY
- ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH 21. CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY 22. CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, AND SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER 24. ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. 26. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK 27. EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RMG ROCKY MOUNTAIN GROUP AND SHALL BE CONSIDERED PART OF THESE PLANS. 28. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR 29. OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR MORE INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT



CALL BEFORE YOU DIG - DRILL - BLAST KANSAS P: 800-344-7233 F: 316-687-3753 COLORADO: P: 800-922-1987

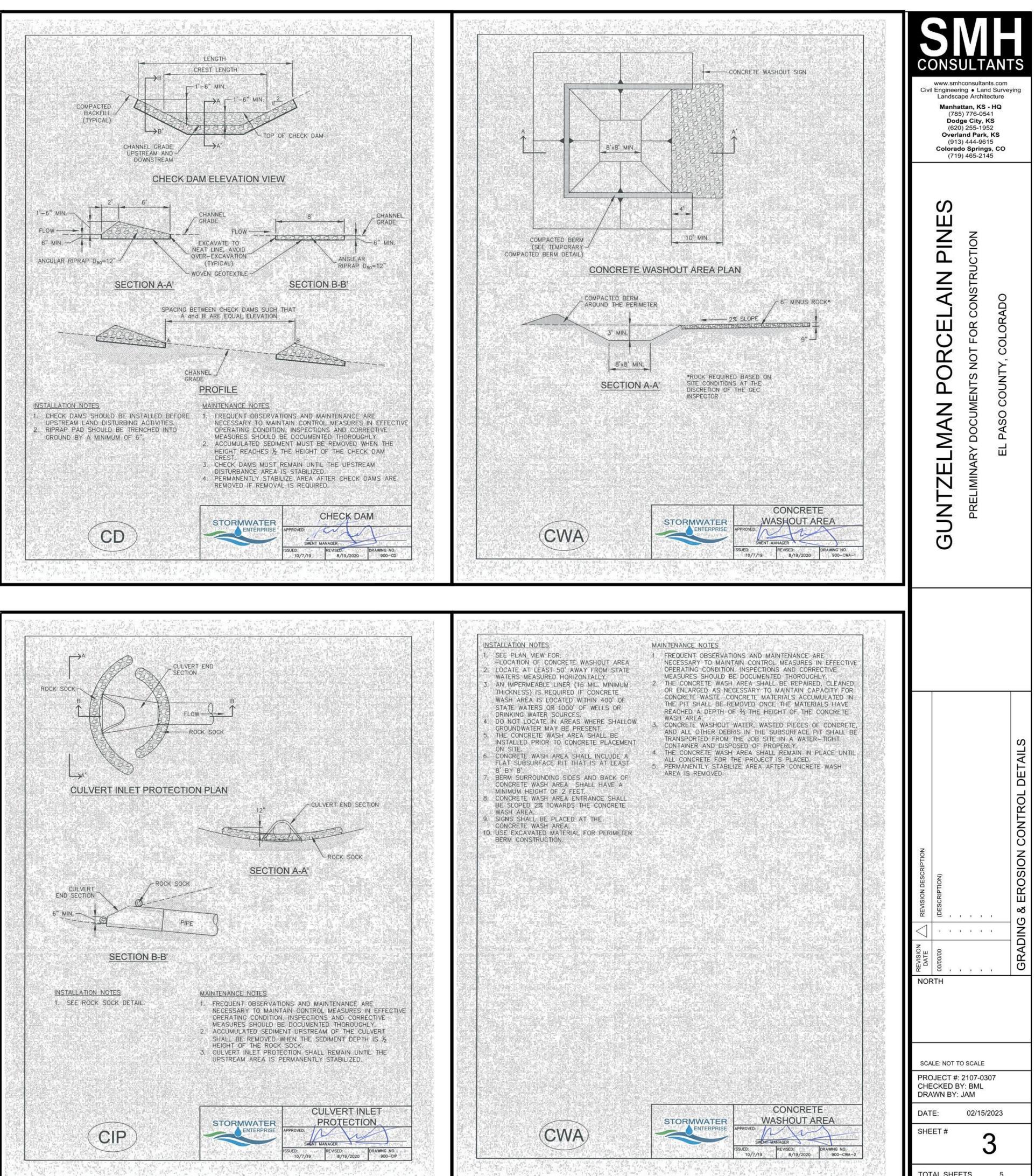
F: 303-234-1712 The utilities as shown on this drawing were developed from

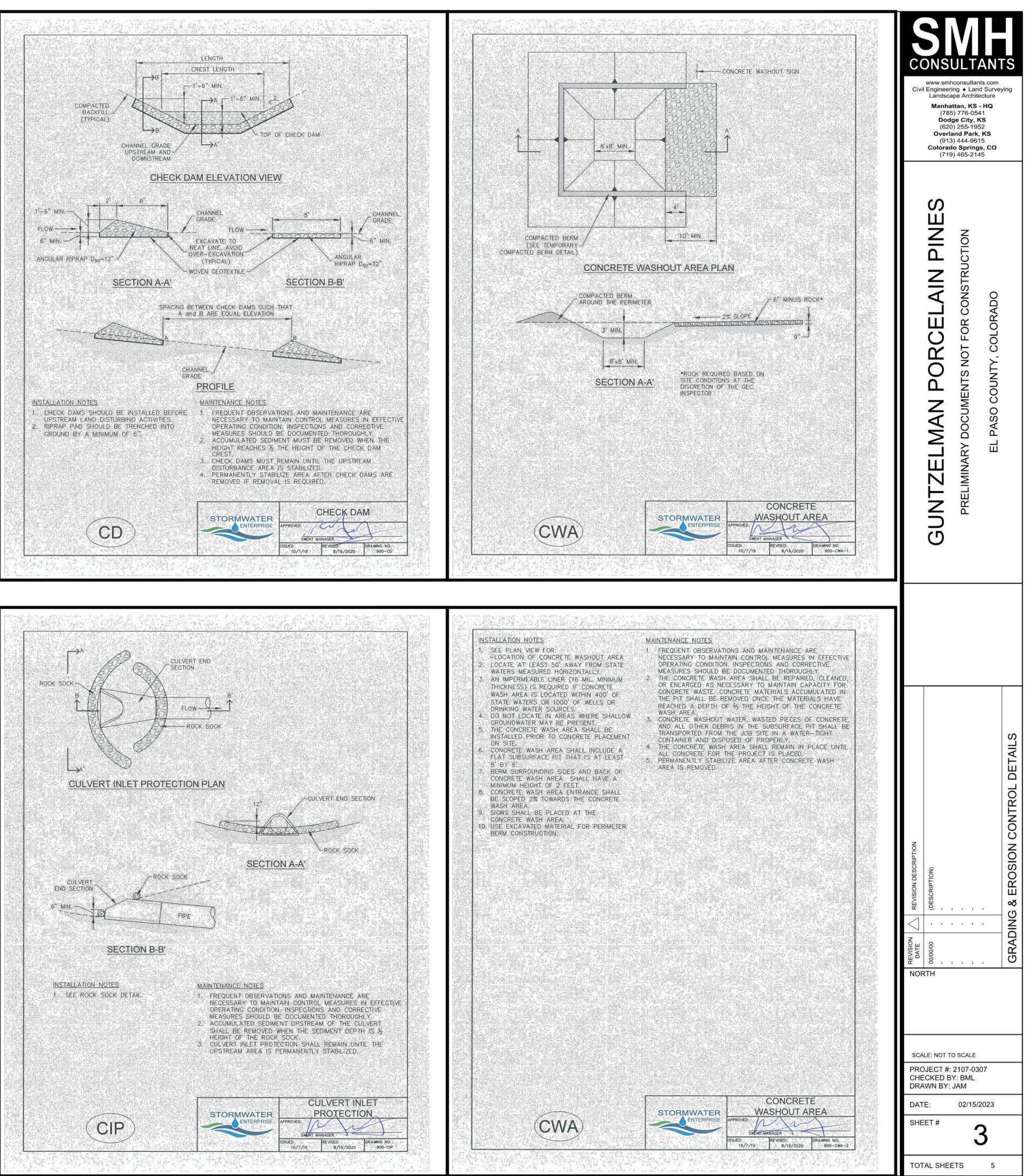
the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.

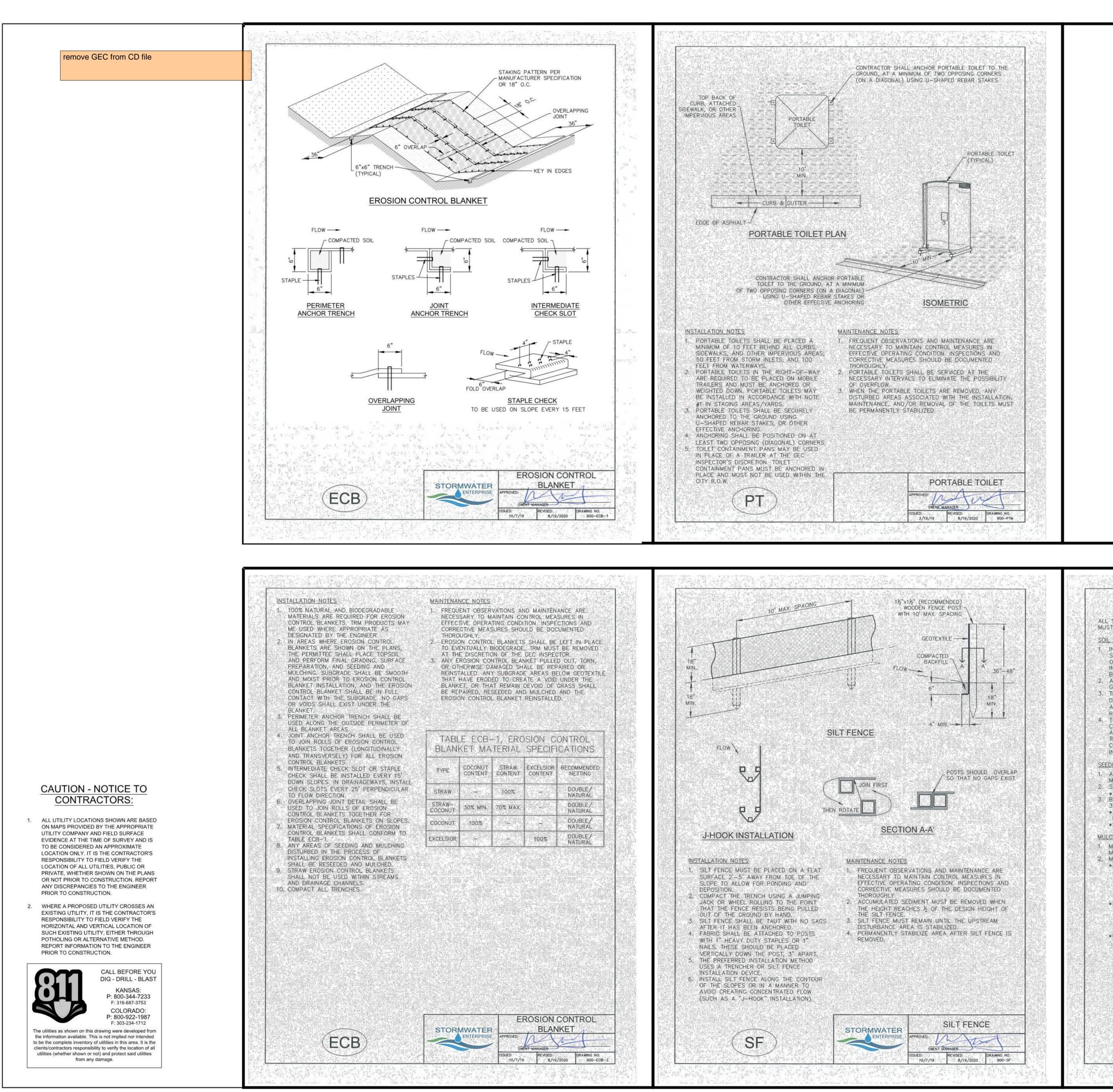
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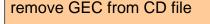
WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

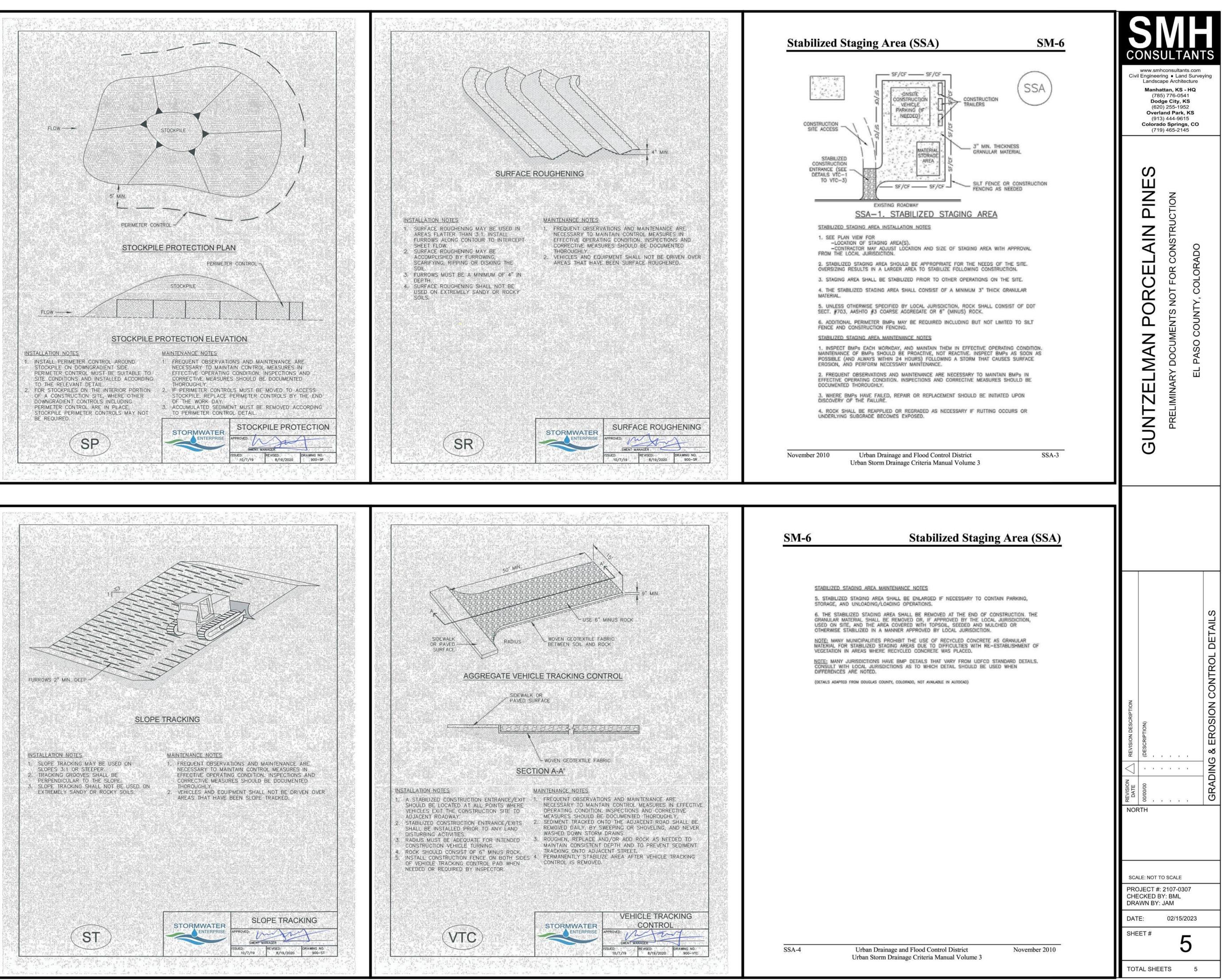


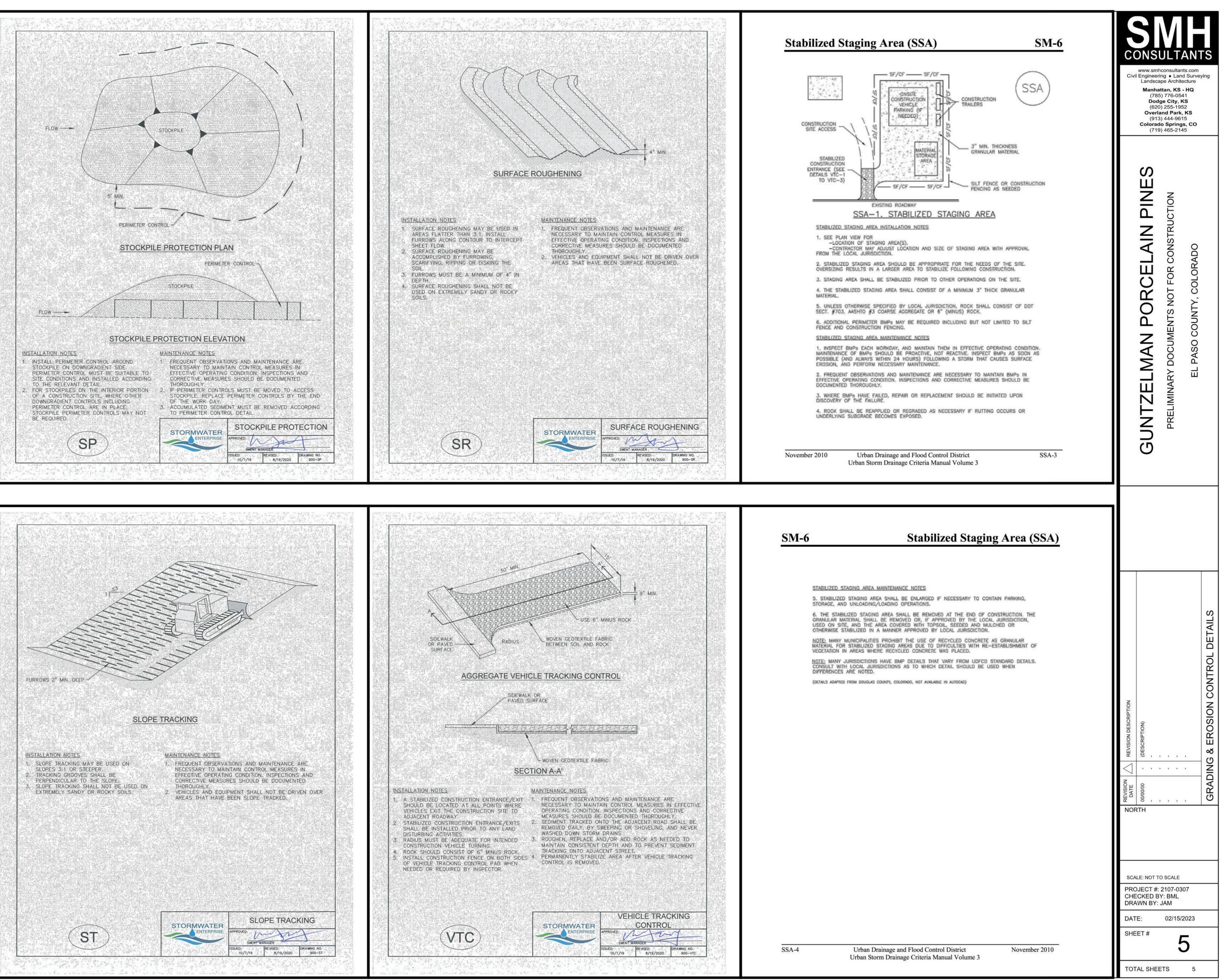




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	GUNTZELMAN PORCELAIN PINES PRELIMINARY DOCUMENTS NOT FOR CONSTRUCTION EL PASO COUNTY, COLORADO			
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APPLIED AT 2 TONS/ACRE AND ADEOUATELY SECURED BY ORIMPING AND/OR TACKIFIER • CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES. • TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1. HYDRAULIC MULCHING • HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED. • IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE SCOND OPERATION. • WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE. • ROSION CONTROL BLANKET • EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE OSED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE OSED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE OSED IN PLACE OF TRADITIONAL MULCHING METHODS. • ROSION CONTROL BLANKET MAY BE	NORTH SCALE: NOT TO SCALE PROJECT #: 2107-0307 CHECKED BY: BML DRAWN BY: JAM DATE: 02/15/2023 SHEET # 4 TOTAL SHEETS 5			







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