

- 1. THE SIDES OF THE BORE PITS SHALL BE SLOPED BACK TO STABLE CONFIGURATION OR SUPPORTED BY TRENCH BOXES, SHEET

- 1. THE SIDES OF THE BORE PITS SHALL BE SUVPLU HACK I OS IABLE CONFIGURATION OR SUPPORTIED BY TRENGT BOARDS, ONE PILLING OR OTHER SHORM MEANS.

  INSTALL SAFETY FRECE AROUND BORE PITS AS NECESSARY.

  INSTALL SHEPORARY EROSION CONTROL PROCEDURES AS SPECIFIED IN SWPPP GENERAL NOTES.

  DEWATER BORE PIT TO CONTROL SEEPAGE WATER FLOW. DEWATER INTO AN APPROPRIATE DEWATERING STRUCTURE TO PREVENT ENTRY OF SILT ADEN WATER BOYD.

  BORE PIT SPOIL SHALL BE COMPACTED ON BACKFILLING TO MINIMIZE SETTLEMENT, REDISTRIBUTE SALVAGED TOPSOIL.

## HORIZONTAL BORING DETAIL

NOT TO SCALE

## HORIZONTAL BORING DETAIL **OFF-FARM PIPELINE DETAILS & SPECIFICATIONS** SCALE: NO SCALE DATE: OCTOBER 2015 REVISIONS NO. DATE DESCRIPTION DESIGN: JOB NO.: 10/13/2015 INITIAL ISSUE 000500-25 KAC DRAWN: SHEET NO.: KAC CREATION TO COMPLETION CHECKED: www.cesoinc.com MRB OF

## PIPELINE SPECIFICATIONS:

PIPELINE SPECIFICATIONS AND REGULATIONS VARY BASED UPON USE, OPERATING PRESSURE, AND CLASS LOCATION. THIS SPECIFICATION IS A GUIDANCE ONLY, ALL CURRENT AND APPLICABLE FEDERAL AND STATE OF MISSOURI CODES DICTATE AND ARE TO BE FOLLOWED.

PER FEDERAL CODE PART 192.8 THE PROPOSED PIPELINE SYSTEM IS ANTICIPATED TO BE A NON-METALLIC TYPE B GATHERING LINE. IF ANY PORTION OF THE PIPELINE LIES WITHIN THE FOLLOWING AREAS, IT SHOULD BE REGARDED AS A REGULATED GATHERING LINE:

- AREA 1: CLASS 3 OR 4 LOCATION
- AREA 2: AN AREA WITH A CLASS 2 LOCATION THE OPERATOR DETERMINES BY USING ANY OF THE FOLLOWING THREE METHODS:
- A CLASS 2 LOCATION;
  AN AREA EXTENDING 150 FEET ON EACH SIDE OF THE CENTERLINE OF ANY CONTINUOUS 1-MILE OF PIPELINE AND INCLUDING MORE THAN 10 BUT FEWER THAN 46 DWELLINGS;
  AN AREA EXTENDING 150 FEET ON EACH SIDE OF THE CENTERLINE OF ANY CONTINUOUS 1000 FEET OF PIPELINE AND INCLUDING 5 OR MORE

PER CFR 192.9, ANY REGULATED GATHERING LINE SHALL BE DESIGNED AND OPERATED ACCORDING TO THE FOLLOWING REQUIREMENTS:

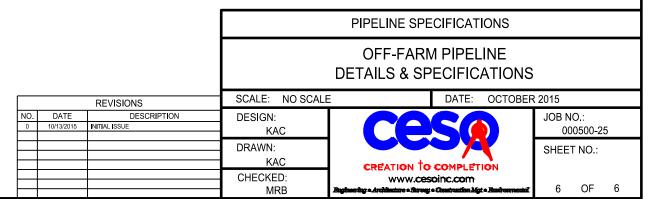
- F A LINE IS NEW, REPLACED, RELOCATED, OR OTHERWISE CHANGED, THE DESIGN, INSTALLATION, CONSTRUCTION, INITIAL INSPECTION, AND INITIAL TESTING MUST BE IN ACCORDANCE WITH REQUIREMENTS OF THIS PART APPLICABLE TO TRANSMISSION LINES;
  IF THE PIPELINE IS METALLIC, CONTROL CORROSION ACCORDING TO REQUIREMENTS OF SUBPART I OF CFR 192 APPLICABLE TO TRANSMISSION
- LINES;
  CARRY OUT A DAMAGE PREVENTION PROGRAM UNDER CFR 192.614;
  ESTABLISH A PUBLIC EDUCATION PROGRAM UNDER CFR 192.616;

- ESTABLISH THE MAOP OF THE LINE UNDER CFR 192.619;
  INSTALL AND MAINTAIN LINE MARKERS ACCORDING TO THE REQUIREMENTS FOR TRANSMISSION LINES IN CFR 192.707.

NON-REGULATED PORTIONS OF THE GATHERING LINE CAN BE OPERATED AT THE MANUFACTURERS RECOMMENDED PRESSURE RATINGS WHILE REGULATED PORTIONS OF THE GATHERING LINE SHALL BE OPERATED AT THE FEDERAL AND/OR STATE CODE REGULATIONS, THE FOLLOWING TABLE DEPICTS THE ALLOWABLE PRESSURES FOR THE VARIOUS PIPE WALL THICKNESS RATIOS:

MAXIMUM ALLOWABLE OPERATING PRESSURES (MAOP) FOR: DRISCOPLEX 6400, DRISCOPIPE 8100, OR YELLOWSTRIPE 8300 PIPE SPECIFICATIONS		
SDR	NON-REGULATED PIPE 1 (PSIG)	REGULATED PIPE (PSIG)
17	125	64 <sup>2,3</sup>
13.5	160	82 <sup>2,3</sup>
11	200	102 <sup>2</sup> (100 <sup>3</sup> )
9	250	125 <sup>2</sup> (100 <sup>3</sup> )

<sup>&</sup>lt;sup>1</sup> PER PIPE MANUFACTURER <sup>2</sup> PER CFR 192,121 AND 123



<sup>3</sup> PER MISSOURI 4 CSR 240-40.030(3)(I) & (J)