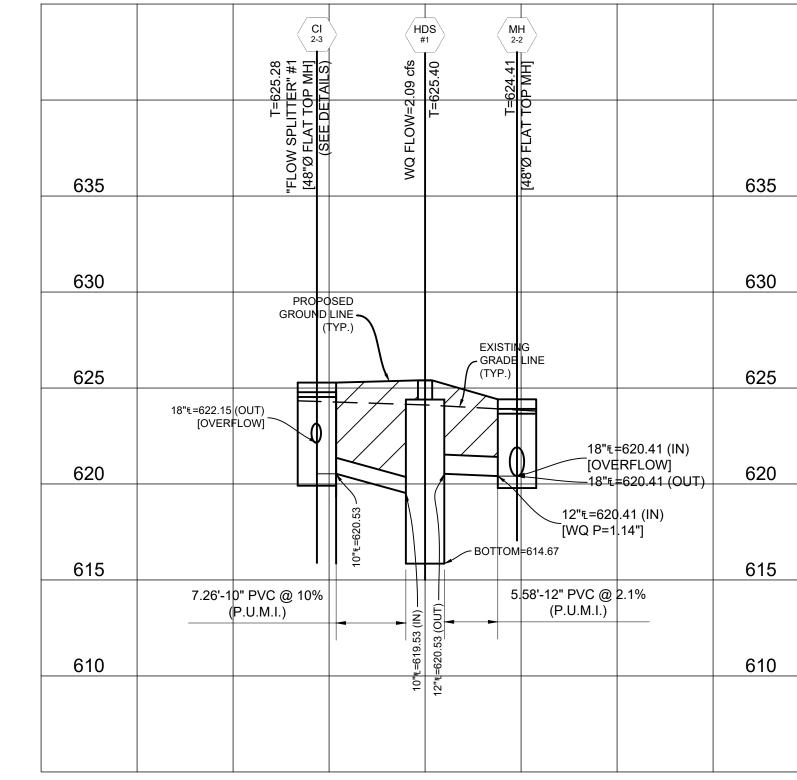


PARTS LIST: 6' DOWNSTREAM DEFENDER			
ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	72	CONCRETE	I.D. PRECAST MANHOLE
2	18 & 24	-	FRAME & COVER
3	10	PVC	INLET PIPE (BY OTHERS)
4	12	PVC	OUTLET PIPE (BY OTHERS)
5	18	-	PIPE COUPLING (BY OTHERS)
6	-	-	LEDGER ANGLE
7	-	-	SUPPORT FRAME
8	-	-	DIP PLATE
9	-	-	CENTER SHAFT & CONE
10	-	-	BENCHING SKIRT
11	-	-	MATERIALS & LABOR TO ACHIEVE FINAL GRADE (BY OTHERS)

*ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIALS.
*ALL CONNECTIONS TO DOWNSTREAM DEFENDER TO BE
A-LOK CONNECTIONS.



HDS UNIT NOTES:

1. HDS UNIT = HYDRODYNAMIC SEPARATOR UNIT (WATER QUALITY PROPRIETARY DEVICE)

2. THE PIPE SLOPES IN AND OUT OF THE HYDRODYNAMIC SEPARATOR ARE CALCULATED BASED ON THE DISTANCE BETWEEN THE INSIDE OF A 48" (I.D.) STRUCTURE (CI 2-3) AND

THE INTAKE CONNECTION POINT OF THE HDS UNIT, AND BETWEEN THE DISCHARGE CONNECTION POINT OF THE HDS UNIT AND INSIDE OF A 48" (I.D.) STRUCTURE (CI 2-2). THE PIPE SLOPES ARE THE CRITICAL FACTOR FOR INSTALLATION, AS THIS GENERATES THE PROPER FLOW RATE TO TREAT THE WATER QUALITY DESIGN STORM. THESE PIPES MUST BE INSTALLED AT THE LISTED SLOPE. SHOULD A DIFFERENT DIAMETER (+/-) STRUCTURE BE REQUIRED FOR CI 2-3, THEN THE DESIGN WILL BE REVIEWED BY THE PROJECT ENGINEER AFTER THE CONTRACTOR SUPPLIES SHOP DRAWINGS. NO STORM STRUCTURE FABRICATION SHALL OCCUR PRIOR TO SHOP DRAWING APPROVAL.

HDS UNIT #1 PROFILE VIEW

The original signed and sealed of this drawing is on file at the office of The Clayton Engineering Company. Any modifications

to this drawing shall release said The Clayton Engineering

Company. the Engineer and/or Surveyor whose seal appears

hereon from any liability resulting from said unauthorized

modifications. The signed and sealed original is the official

document and shall take precedence over any digital version.



Call Before you DIG

Dial 811 or TOLL FREE

1-800-344-7483

mo1call.com

MISSOURI ONE-CALL SYSTEM INC.

ERIC A. SKELTON

NUMBER

EAS

EAS

EAS

March 19, 2022

21243

云· E-2000150069:

Checked

Project Number

Sheet Number

Underground facilities, structures & utilities have been plotted from available surveys, records & information, and therefore, do not necessarily reflect the actual existence, nonexistence, size, type, number of, or location of these facilities, structures, & utilities.

The Contractor shall be responsible for verifying the actual

location of all underground facilities, structures, & utilities, either shown or not shown on these plans. The underground facilities, structures, & utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act

