

**Custom Stone Handlers, Inc.**  
P.O. Box 1855  
Columbia, TN 38402

January 9, 2023

Tennessee Department of Environment and Conservation  
Division of Water Resources  
Mining Section  
3711 Middlebrook Pike  
Knoxville, TN 37921-6538

RE: NPDES Permit Application for CSH Fiery Gizzard Stone Excavation Site, Smithtown, TN

Attached is a NPDES permit application (Forms 1 and 2D) and a site plan map for a proposed stone/rock excavation site in Smithtown, TN. The excavation site is located adjacent to the Fiery Gizzard Creek and will involve the removal of stone and size sorting - storm water discharge only. Also attached are three figures showing location and overview of the stone excavation site (topographic, site location and site operations map) and a line drawing showing storm water discharge flow rate. The excavation area is 29 acres in size and is located outside the stream buffers of nearby streams.

Several other required documents are enclosed: (1) a completed anti-degradation statement, (2) a completed CN-1090 form, (3) request for waiver, (4) public notice sign and (5) stormwater pollution prevention plan. We request information on fee amount for the permit application.

Mr. Tony Grow will represent CSH on all matters with respect to this permit application. Please do not hesitate to contact Mr. Grow at (931) 273-4681 if you have any questions.

Sincerely,

CUSTOM STONE HANDLERS, INC.

  
Ned Rich  
President/Owner

Attachments

1. NPDES Permit Application Form 1
2. NPDES Permit Application Form 2D
3. Figures 1 thru 3
4. Anti-degradation Statement
5. Completed CN-1090
6. Request for Waiver
7. Public Notice Sign
8. SWPPP



**APPROVED**

DIVISION OF MINERAL &  
GEOLOGIC RESOURCES

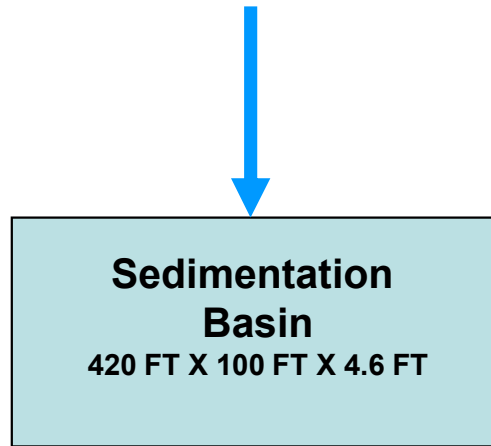
MINING SECTION

BY:   
DATE: June 6, 2023

# FIGURE 4

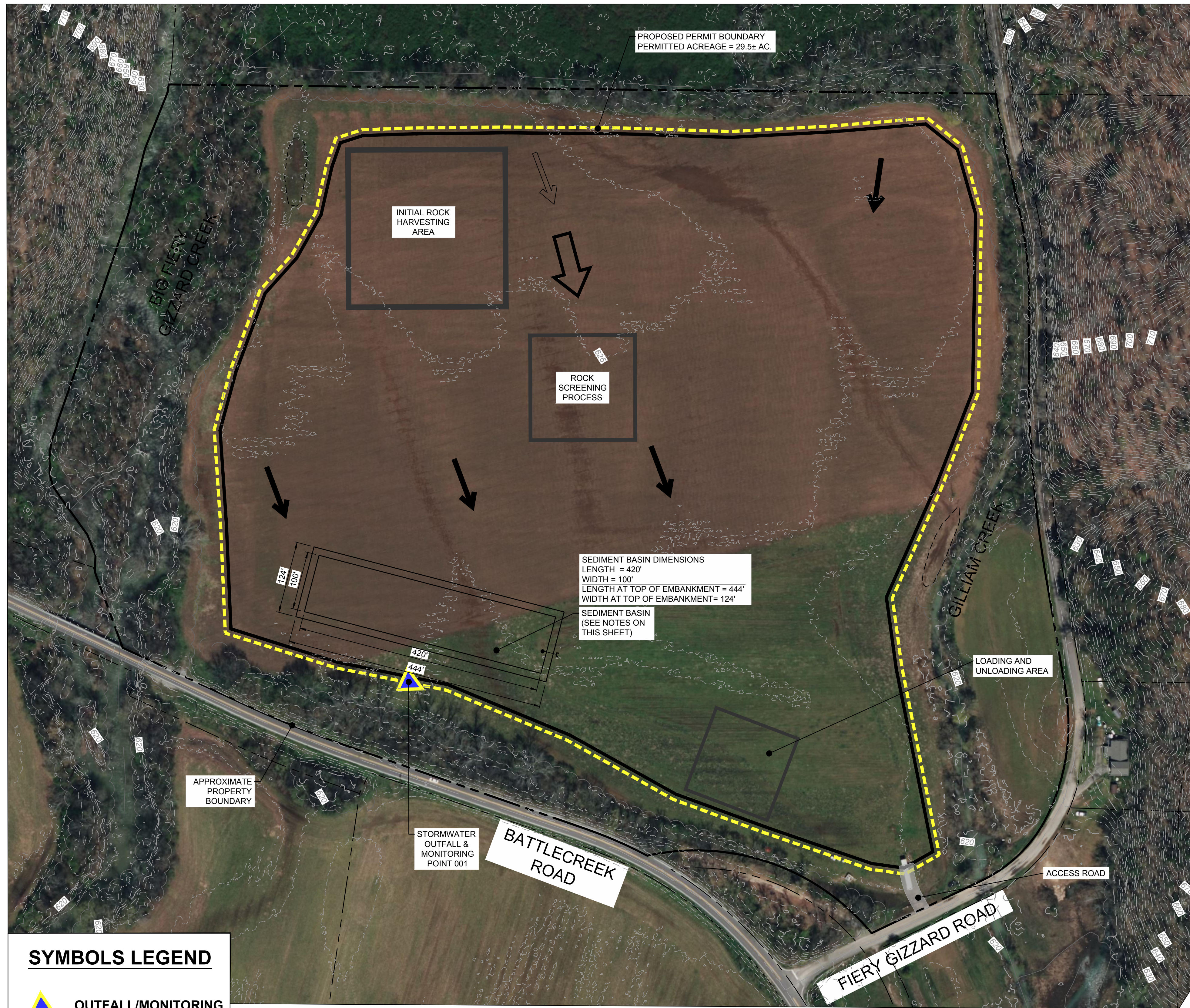
## LINE DRAWING – STONE EXCAVATION PROCESS (NO WASHING)

**Stormwater**  
10-Year/ 24-Hour Storm Event = 6.25 inches  
29.5 acres = 176,000 gallons



**Discharge to**  
**OUTFALL 001**  
176,000 gallons per storm event

**Note: Sediment in sedimentation basin will be removed monthly.**

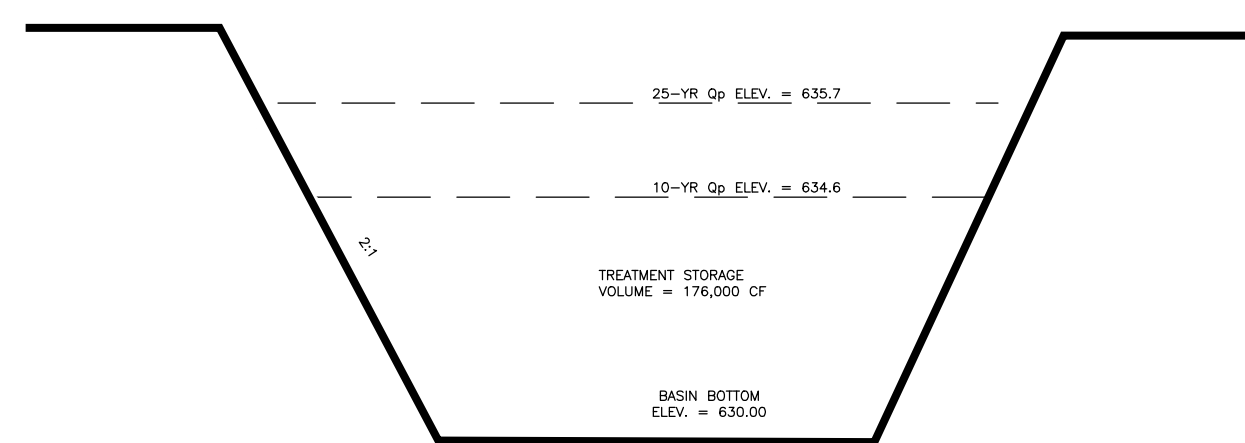


**SYMBOLS LEGEND**

- OUTFALL/MONITORING POINT
- STORMWATER DRAINAGE DIRECTION
- MINING DIRECTION

**NOTES:**

1. THE EXISTING INFORMATION SHOWN ON THIS EXHIBIT IS FROM AVAILABLE GIS INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ANY POTENTIAL CONFLICTS WITH UTILITIES OR OTHER POTENTIAL OBSTRUCTIONS PRIOR TO CONSTRUCTION.
2. THE PROPERTY SHOWN HEREON IS LOCATED IN A FLOOD HAZARD ZONE "AE" (AREAS DETERMINED TO BE WITHIN THE 100 YEAR FLOODPLAIN + FLOODWAY) ACCORDING TO F.I.R.M. MAP "MARION COUNTY, TENNESSEE AND INCORPORATED AREAS" PANEL 205 OF 425, MAP NUMBER 47115C0205D, MAP REVISED ON JANUARY 6, 2012 ACCORDING TO THE FIRM MAPS.
3. CONTRACTOR SHALL FOLLOW ALL TDEC STANDARDS FOR INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES.
4. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS FROM THE CITY, COUNTY, TDEC, OR OTHER AUTHORITY HAVING JURISDICTION THAT MAY BE REQUIRED.
5. THE SEDIMENT BASIN WILL ACT AS A PUMP DISCHARGE SYSTEM. THE CONTRACTOR IS TO INSTALL PROPER VELOCITY DISSIPATING/SPLASH PADS PRIOR TO THE DISCHARGE OF STORM WATER



Sedimentation Basin will be lined to hold water

**NOTES:**

1. THE SEDIMENT BASIN ELEVATIONS SHOWN ON THE DETAIL AND IN THE CALCULATIONS ARE ASSUMED AS A SURVEY WAS NOT PROVIDED TO M2 GROUP, LLC.
2. THE LOCATION OF THE BASIN AS SHOWN IS APPROXIMATE. THE LOCATION SHALL BE FIELD-LOCATED AS TO MAXIMIZE SEDIMENT CAPTURE AND MINIMIZE EROSION RUNOFF.
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5. THE CONTRACTOR SHALL INSTALL CUT OFF DITCHES AS NECESSARY TO DIRECT STORMWATER RUNOFF TO THE SEDIMENT BASIN
6. NO STORMWATER FROM THE MINING SITE SHALL BE DISCHARGED TO BATTLE CREEK OR ITS TRIBUTARIES.

**SEDIMENT BASIN CALCULATIONS**

SEDIMENT BASIN DESIGN	
DRAINAGE AREA (AC.)	SB-1
TOTAL VOL. REQUIRED (CF)	29.50
RAINFALL INTENSITY (IN/HR)	106,731
RUNOFF COEFFICIENT*	6.25
PEAK FLOW 5-YR/24-HR (CFS)	0.50
SURFACE AREA REQUIRED (SF)	92.19
SURFACE AREA PROVIDED (SF)	40,157
BASIN BOTTOM ELEV. (FT)	42,000
WET STORAGE DEPTH (FT)	630.00
WET STORAGE VOL. (CF)	2.00
TOP WET STORAGE ELEV. (FT)	53,366
DRY STORAGE DEPTH (FT)	632.00
DRY STORAGE VOLUME (CF)	2.00
FOREBAY STORAGE VOL. (CF)**	53,366
TOP DRY STORAGE ELEV. (FT)	13,341
TOP OF RISER ELEV. (FT)	634.00
RISER DIAMETER (FT)	
EMERGENCY SPILLWAY ELEV. (FT)	636.00
TOP EMBANKMENT ELEV. (FT)	636.50
TOTAL VOL. PROVIDED (CF)	176,000
SPILLWAY CREST LENGTH (FT)	20.00
SPILLWAY TOP WIDTH (FT)	6.00

\* RUNOFF COEFFICIENT ASSUMED TO BE BARE SOIL CONDITION  
 \*\* FOREBAY STORAGE VOLUME ACCOUNTS FOR 25% OF DRY STORAGE VOLUME



**APPROVED**  
 DIVISION OF MINERAL & GEOLOGIC RESOURCES  
 MINING SECTION  
 BY: *[Signature]*  
 DATE: June 6, 2023

REVISION #	DATE	DESCRIPTION

SEDIMENT BASIN PLAN FOR:  
**CHS STONE EXCAVATION SITE**  
 CUSTOM STONE HANDLERS INC  
 CHS FIERY GIZZARD SITE  
 SMITHTOWN, MARION COUNTY, TENNESSEE



<b>SEDIMENT BASIN PLAN</b>	
DATE: FEBRUARY, 2023	DRAWN BY: MWB
PROJECT NO.: 23-012	CHECKED BY: MWB
SHEET NUMBER: <b>EX1</b>	

23-012 SED BASIN.DWG / Sunday, February 26, 2023 5:39:23 PM



DRAWING PREPARED BASED ON GIS DATA. NO FIELD SURVEY WAS PERFORMED FOR THIS PROJECT.

