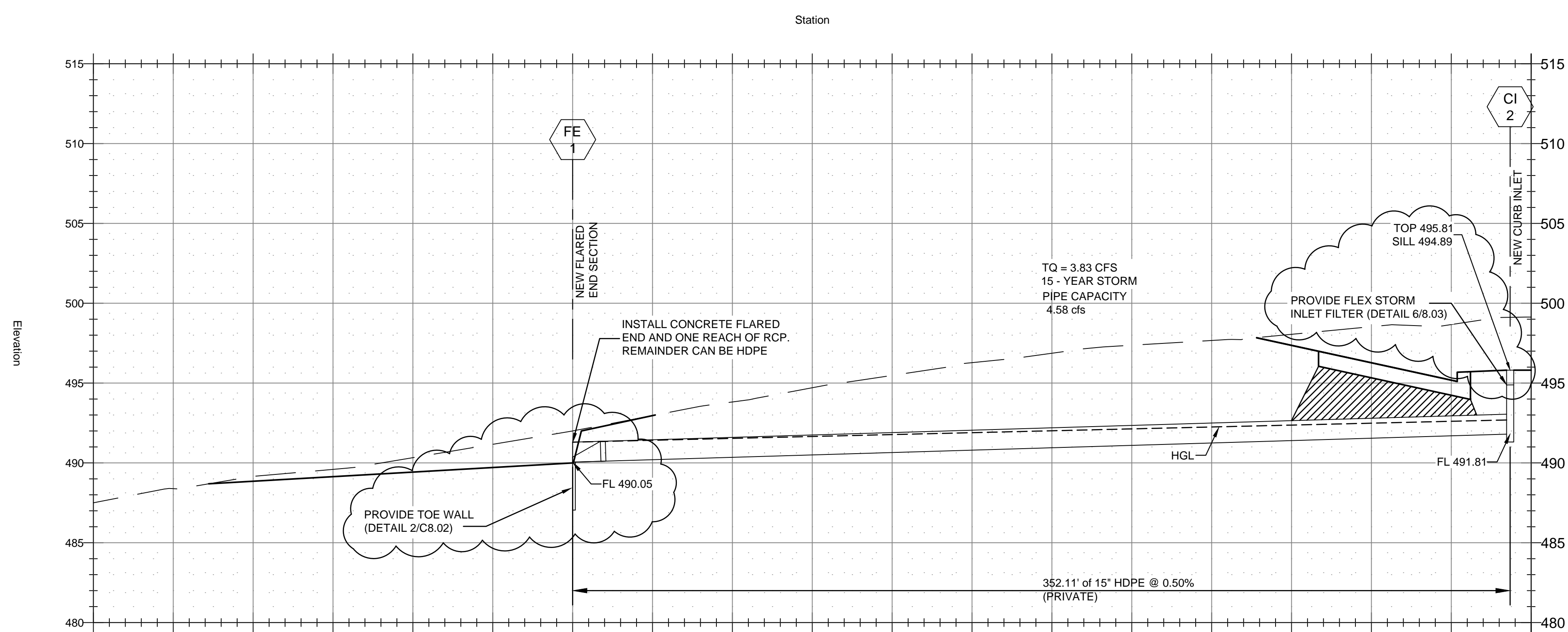


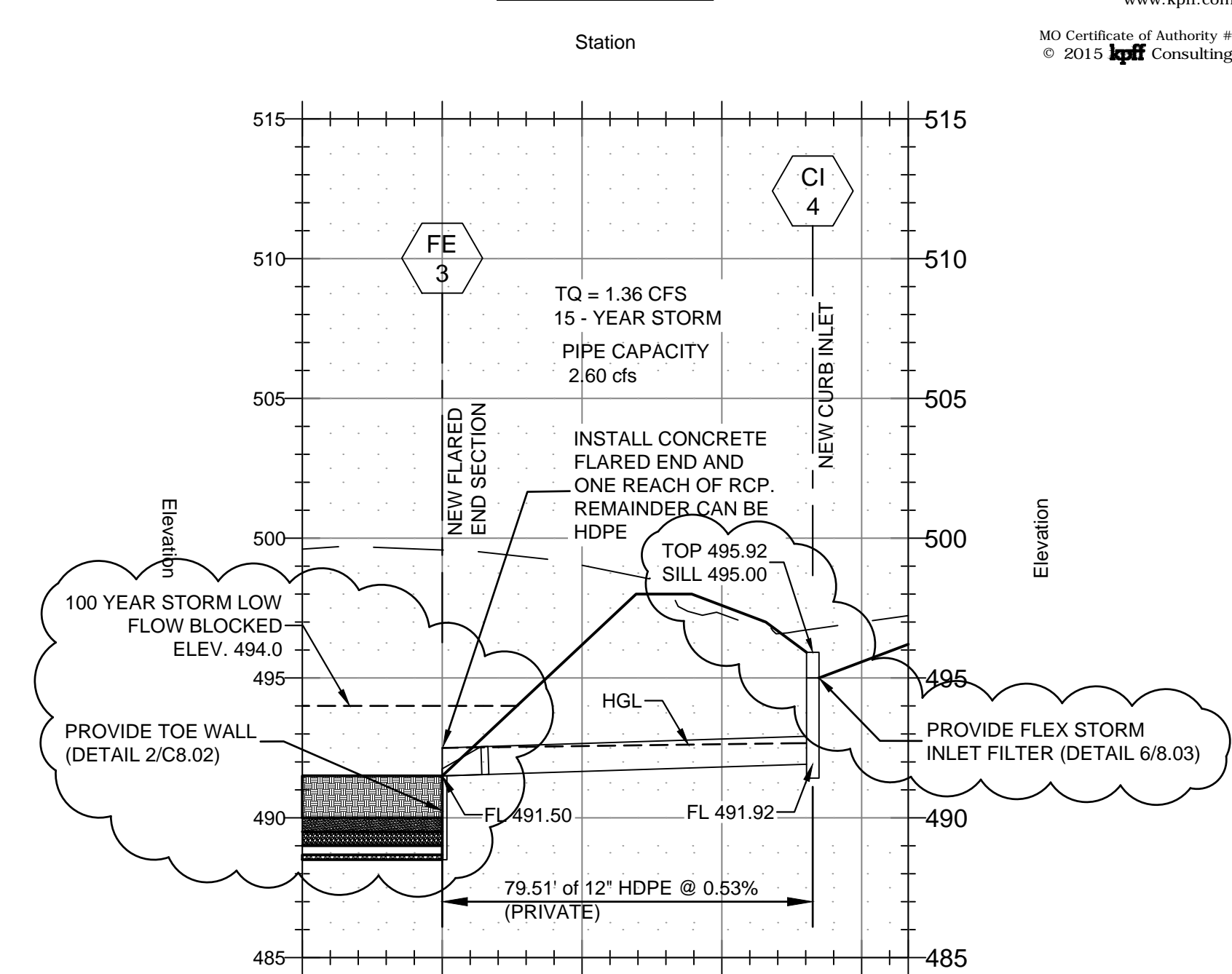


ADDITION & RENOVATION FOR
O'FALLON CASTING
 600 CANNONBALL LANE O'FALLON, MISSOURI 63366
 SEWER PROFILES

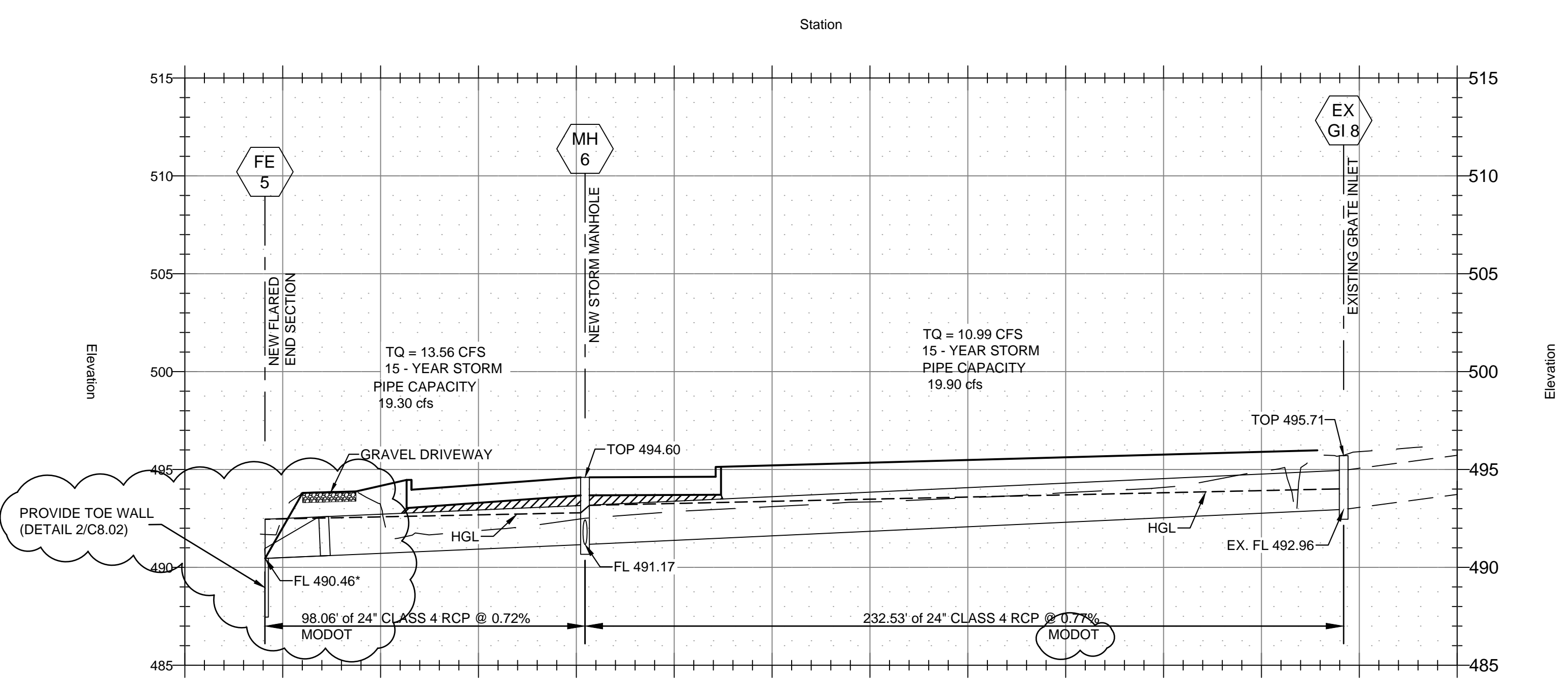
STORM 1 PROFILE



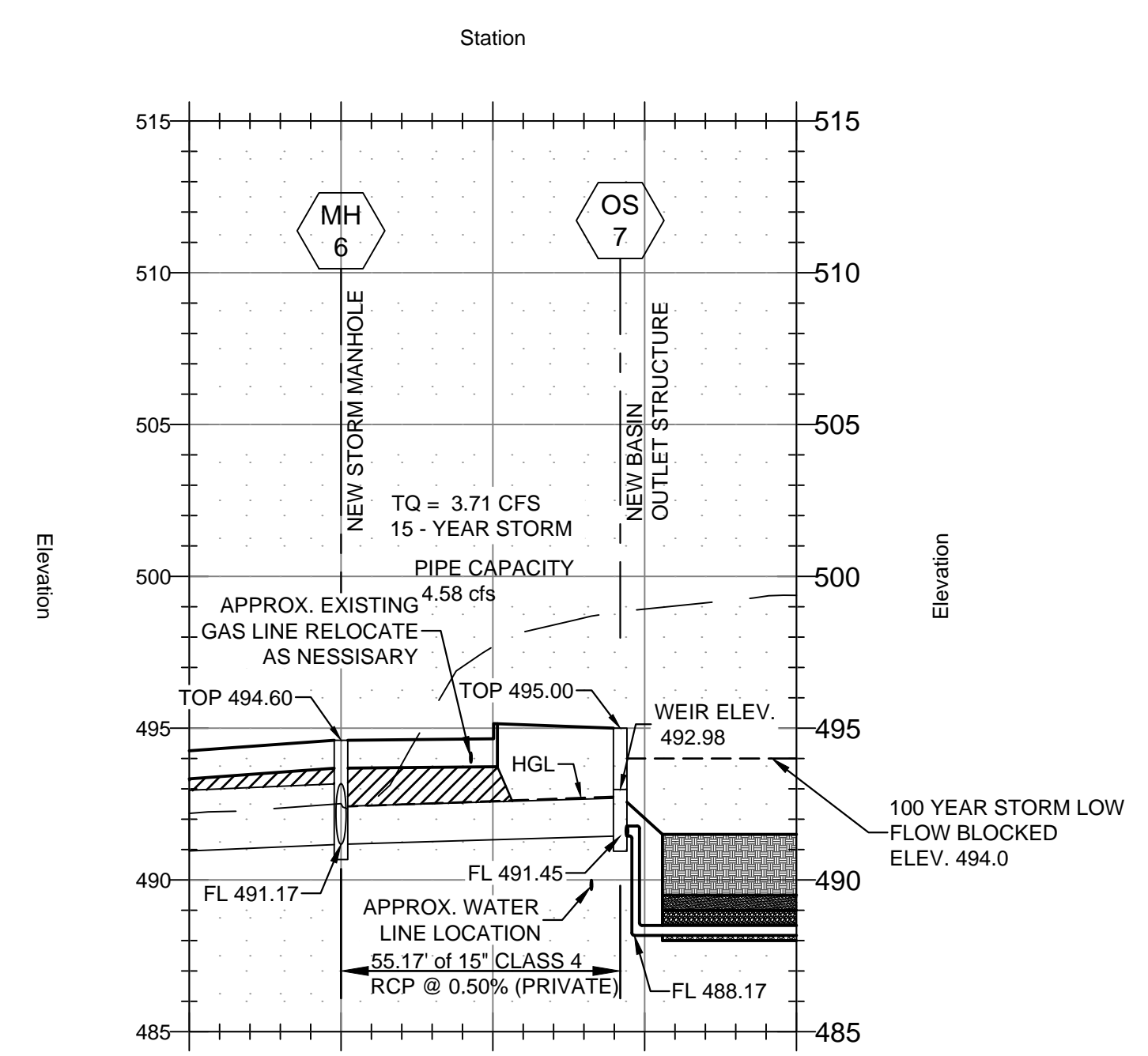
STORM 2 PROFILE



STORM 4 PROFILE



STORM 3 PROFILE



*FLOW LINE IS APPROXIMATE. ENSURE THERE IS ADEQUATE LONGITUDINAL SLOPE IN THE EXISTING CONCRETE SWALE TO CONVEY WATER AWAY FROM FE 5.

STORM SEWER PROFILES
 SCALE: 1" = 30' HORIZONTAL
 1" = 5' VERTICAL

STORM 1 PIPE HYDRAULICS

R:\Projects\2015 Projects\215028 O'Fallon Casting\CAD\CALCFILES\PIPE HYDRAULICS\STORM 1.txt
 4/12/2016
 Calculations Under Full Flow

Upp Str	Low Str	PL	S	Upp FL LN	Low FL LN	PS	Upp ST EL	Depth HY	Upp HY GR	Low HY EL	Hydr Grade	FR Head	VEL	Junc Loss	Turn Loss	Curve Loss	STR Loss	Ini Grade	DR Area	PI	Q	TQ	Pipe Cap	Remarks	
1	2	1	352	15	491.81	490.05	0.50	495.81	3.12	492.69	491.30	0.00350	1.23	3.12	0.15	0.15	0.00	0.00	4.00	1.21	3.17	3.83	3.83	4.57	

STORM 2 PIPE HYDRAULICS

R:\Projects\2015 Projects\215028 O'Fallon Casting\CAD\CALCFILES\PIPE HYDRAULICS\STORM 2.txt
 5/13/2016
 Calculations Under Full Flow

Upp Str	Low Str	PL	S	Upp FL LN	Low FL LN	PS	Upp ST EL	Depth HY	Upp HY GR	Low HY EL	Hydr Grade	FR Head	VEL	Junc Loss	Turn Loss	Curve Loss	STR Loss	Ini Grade	DR Area	PI	Q	TQ	Pipe Cap	Remarks	
1	4	3	80	12	491.92	491.50	0.53	495.92	3.25	492.67	492.50	0.00150	0.12	1.73	0.05	0.05	0.00	0.00	4.00	0.44	3.09	1.38	1.38	2.59	

STORM 3 PIPE HYDRAULICS

R:\Projects\2015 Projects\215028 O'Fallon Casting\CAD\CALCFILES\PIPE HYDRAULICS\STORM 3.txt
 5/23/2016
 Calculations Under Full Flow

Upp Str	Low Str	PL	S	Upp FL LN	Low FL LN	PS	Upp ST EL	Depth HY	Upp HY GR	Low HY EL	Hydr Grade	FR Head	VEL	Junc Loss	Turn Loss	Curve Loss	STR Loss	Ini Grade	DR Area	PI	Q	TQ	Pipe Cap	Remarks	
1	8	6	55	15	491.45	491.17	0.51	495.00	2.26	492.74	492.42	0.00330	0.18	3.02	0.14	0.14	0.00	0.00	4.00	2.08	1.78	3.71	3.71	4.61	

STORM 4 PIPE HYDRAULICS

R:\Projects\2015 Projects\215028 O'Fallon Casting\CAD\CALCFILES\PIPE HYDRAULICS\STORM 4.txt
 5/23/2016
 Calculations Under Full Flow

Upp Str	Low Str	PL	S	Upp FL LN	Low FL LN	PS	Upp ST EL	Depth HY	Upp HY GR	Low HY EL	Hydr Grade	FR Head	VEL	Junc Loss	Turn Loss	Curve Loss	STR Loss	Ini Grade	DR Area	PI	Q	TQ	Pipe Cap	Remarks	
1	7	6	233	24	492.96	491.17	0.77	495.71	1.70	494.01	493.17	0.00240	0.56	3.50	0.19	0.19	0.00	0.00	4.00	1.35	2.91	3.93	10.99	19.85	
2	6	5	93	24	491.17	490.46	0.77	494.60	1.81	492.79	492.46	0.00360	0.33	4.32	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.56	19.85	

LEGEND

- EXISTING GRADE
- - - PROPOSED GRADE
- /// GRANULAR BACKFILL

REVISIONS

NO.	DATE
3	08/10/2016

ISSUE DATE: MAY 26, 2016
 PROJECT NO.: 15-187
 DRAWN BY: GAS
 CHECKED BY: TBS

SEAL

ISSUE DATE: MAY 26, 2016
 PROJECT NO.: 15-187
 DRAWN BY: GAS
 CHECKED BY: TBS

SHEET
C6.01