

Z&H FOODS INC. POPEYES L.K. - O'FALLON, MO SITE CONSTRUCTION PLANS

A TRACT OF LAND BEING LOT 3A
A RESUBDIVISION OF LOT 3 OF KEATON CROSSING
IN U.S. SURVEY 1669, TOWNSHIP 46 NORTH, RANGE 3 EAST, OF
THE FIFTH PRINCIPAL MERIDIAN
CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI

AS BUILT PLANS

Legend

ABBREVIATIONS		PROPOSED		EXISTING	
AI	- Area Inlet	●	- Area Light	○	- Clean Out
Asph	- Asphalt	□	- Double Area Light	○	- Catch Basin/Curb Inlet/Area Inlet
ATG	- Back to Back	□	- Connection (Proposed)	○	- Double Catch Basin/Curb Inlet
BW	- Base of Wall	□	- Fire Hydrant	○	- Nyloplast Yard Drain
CB	- Catch Basin	□	- Concrete	○	- Faucet
ChB	- Cord Bearing	□	- Downway Entrance	○	- Flared End Section
CI	- Curb Inlet	□	- Drainage Flow	○	- Grated Inlet
CL or F	- Centerline	□	- Swale	○	- Light Standard
CMP	- Corrugated Metal Pipe	□	- Water Meter Or Valve	○	- Fire Hydrant
Co	- Cleanout	□	- Gas Meter Or Valve	○	- Flared End Section
Conc	- Concrete	□	- Utility Pole w/ Guy Wires	○	- Grated Inlet
CTV	- Cable Television	□	- Utility Pole w/ Guy Wires	○	- Light Standard
DB	- Dead Book	□	- Handicap Parking Space	○	- Sign
DCB	- Double Catch Basin	□	- Direction Of Traffic	○	- Utility Pole
DFL(N)	- Drop FL from North	□	- Contour	○	- Valve or Meter
DIP	- Ductile Iron Pipe	□	- Spot Elevation	○	- Twin Light Pole
E	- Electric	□	- (100)	○	- Single Light Pole
FF	- Face to Face	□	- (500)		
FF	- Flared End Section	□	- Spot Elevation		
FG	- Finish Grade	□	- Sanitary Sewer		
FL	- Flow Line	□	- Storm Sewer		
GB	- Grade Break	□	- Utility Service		
GI	- Grate Inlet	□	- (E, T, G, etc.)		
Gr MH	- Grate Manhole				
L	- Length of Curve				
MH	- Manhole				
NIF	- Now or Formerly				
N.I.C.	- Not in Contact				
OHE	- Overhead Electric				
OHE&T	- Overhead Electric & Telephone				
PB	- Plat Book				
PG	- Page				
PL	- Property Line				
PVC	- Polyvinyl Chloride Pipe				
R	- Radius				
R.D.	- Roof Drain				
RW	- Right of Way				
RCP	- Reinforced Concrete Pipe				
TBR	- To Be Removed				
TBR&R	- To Be Removed & Replaced				
TBR&R	- To Be Relocated				
TC	- Top of Curb				
TF	- Top of Foundation				
TG	- Top of Ground				
TP	- Top of Pavement				
TW	- Top of Wall				
Typ	- Typical				
UGE	- Underground Electric				
UGFO	- Underground Fiber Optic				
UGT	- Underground Telephone				
UIP	- Use In Place				
VCP	- Vitrified Clay Pipe				
W	- Water Service				

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Benchmarks

PROJECT BENCHMARK (NAVD88):
GPS OBSERVATIONS PER MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) GPS NETWORK SYSTEM, MISSOURI EAST (2401) STATE PLANE COORDINATE SYSTEM.

SITE BENCHMARK (NAVD88):
SQUARE CUT ON SOUTH SIDE OF CONCRETE LIGHT POLE BASE OFF NORTHEAST BOUNDARY LINE AS SHOWN ON THESE PLANS.
ELEVATION = 552.94' (NAVD88)

BASIS OF BEARINGS: PLAT BOOK 40 PAGE 289

Legal Description

LOT 3A OF "RESUBDIVISION OF LOT 3 OF KEATON CROSSING" AS RECORDED IN PLAT BOOK 40 PAGE 289 OF THE ST. CHARLES COUNTY RECORDS AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHERN MOST CORNER OF SAID LOT 3A ON THE NORTHWEST LINE OF MISSOURI STATE HIGHWAY "K" (VARIABLE WIDTH) AND NORTHEAST LINE OF KEATON CORPORATE PARKWAY (50-FEET WIDE);

THENCE ALONG SAID NORTHEAST LINE OF KEATON CORPORATE PARKWAY (50-FEET WIDE) NORTH 50 DEGREES 05 MINUTES 35 SECONDS WEST A DISTANCE OF 212.37 FEET TO A POINT OF CURVATURE;

THENCE NORTHERLY ALONG A CURVE TO THE RIGHT WITH AN ARC LENGTH OF 83.22 FEET, A RADIUS OF 63.00 FEET, WITH A CHORD BEARING OF NORTH 05 DEGREES 06 MINUTES 31 SECONDS WEST AND A CHORD LENGTH OF 74.93 FEET TO THE SOUTHEAST LINE OF KEATON CROSSING BOULEVARD (50-FEET WIDE);

THENCE ALONG SAID SOUTHEAST LINE OF KEATON CROSSING BOULEVARD (50-FEET WIDE) THE FOLLOWING COURSES AND DISTANCES:

NORTH 39 DEGREES 52 MINUTES 32 SECONDS EAST A DISTANCE OF 66.25 FEET TO A POINT OF CURVATURE;

NORTHEASTERLY ALONG THE ARC OF A CURVE TO THE LEFT WITH AN ARC LENGTH OF 2.33 FEET, A RADIUS OF 175.00 FEET, WITH A CHORD BEARING OF NORTH 39 DEGREES 29 MINUTES 41 SECONDS EAST AND A CHORD LENGTH OF 2.33 FEET TO THE LINE COMMON TO LOTS 3A AND 3B OF THE AFORESAID "RESUBDIVISION OF LOT 3 OF KEATON CROSSING";

THENCE ALONG SAID LINE COMMON TO LOTS 3A AND 3B SOUTH 60 DEGREES 12 MINUTES 12 SECONDS EAST A DISTANCE OF 247.31 FEET TO THE AFORESAID NORTHWEST LINE OF MISSOURI STATE HIGHWAY "K" (VARIABLE WIDTH);

THENCE ALONG SAID NORTHWEST LINE OF MISSOURI STATE HIGHWAY "K" (VARIABLE WIDTH) THE FOLLOWING COURSES AND DISTANCES:

SOUTH 29 DEGREES 47 MINUTES 48 SECONDS WEST A DISTANCE OF 52.96 FEET;

SOUTH 35 DEGREES 30 MINUTES 26 SECONDS WEST A DISTANCE OF 100.50 FEET;

SOUTH 18 DEGREES 29 MINUTES 12 SECONDS WEST A DISTANCE OF 13.55 FEET TO THE POINT OF BEGINNING AND HAVING AN AREA OF 36.075 SQUARE FEET OR 0.83 ACRES.

Conditions of Approval From Planning and Zoning

ON FEBRUARY 6, 2020, THE PLANNING AND ZONING COMMISSION APPROVED AN AMENDED SITE PLAN AND CONDITIONAL USE PERMIT FOR (20-000372) REQUEST FOR CONSIDERATION AND MOTION FOR ACTION ON AN AMENDED SITE PLAN FOR 6674 KEATON CORPORATE PARKWAY - ADVANTAGE HOLDINGS 3A, LLC, PROPERTY OWNER - PROPOSED USE: RESTAURANT (WARD 2).

THE APPROVAL IS CONDITIONAL UPON THE FOLLOWING STAFF RECOMMENDATIONS BEING MET:

1. A TRAFFIC STUDY WAS PREVIOUSLY REQUIRED FOR THE SITE PLAN. THE APPLICANT SHALL REVIEW WITH THE CITY'S TRAFFIC CONSULTANT WHETHER ANY UPDATES ARE NEEDED TO THAT STUDY AND ADHERE TO THE STUDY'S FINDINGS.
2. THE RIGHT IN/RIGHT OUT ENTRANCE WILL NEED TO SUPPORTED AND ACCEPTABLE ACCORDING THE TRAFFIC STUDY AS ACCEPTED BY THE CITY'S TRAFFIC ENGINEER.
3. IF SUPPORTED THE ENTRANCE WILL NEED TO BE RECONFIGURED IN A MANNER THAT WOULD RESTRICT LEFT TURN MOVEMENTS. TOE CONFIGURATION SHOWN ON THE SUBMITTAL IS NOT ACCEPTABLE.
4. THIS DEVELOPMENT WILL BE REQUIRED TO CONTRIBUTE \$1,500.23 TO THE HIGHWAY K RIGHT TURN LANE ON TO KEATON CORPORATE BLVD.
5. SHOW THE EXISTING SIDEWALK CONNECTIONS AND TRAIL LOCATIONS.
6. CLARIFY THE DRIVE AISLE CONNECTION TO THE ADJACENT PROPERTY TO THE NORTH.
7. PROVIDE THE REVISED SITE DEVELOPMENT DETAILS.
8. PROVIDE A PHOTOMETRIC LIGHTING PLAN.
9. ASPHALT PAVEMENT IS TO HAVE A MINIMUM 8" ROCK BASE.
10. REVIEW THE FLOW OF TRAFFIC ON THE EASTERN SIDE OF THE BUILDING. STAFF RECOMMENDS A TWO-WAY DRIVE AISLE.

FINAL ASBUILT MEASUREMENTS

STORM SEWER STRUCTURES:
MEET MSD STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES LATEST EDITION.

- ADDITIONAL UTILITY NOTES:**
- LIMITS OF DISTURBANCE: THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.
 - ALL DISTURBED AREAS SHALL EITHER BE PAVED, LANDSCAPED, OR SODDED FOR THESE PROJECT IMPROVEMENTS. SEEDING WILL NOT BE PERMITTED ON THIS DEVELOPMENT.
 - STORM SEWERS ARE PROPOSED WITH THESE IMPROVEMENTS. SEWER DESIGN IS PROVIDED IN ACCORDANCE WITH CITY RULES & REGULATIONS THIS PROJECT, AND ACCOUNTS FOR THE IMPROVEMENTS SHOWN ON THESE PLANS.
 - THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY SHORING / SUPPORT FOR EXISTING PAVEMENT AND CURING AT REQUIRED EXCAVATION FOR THE INSTALLATION OF THE NEW MH 1-3 NEAREST KEATON CROSSING BOULEVARD. ANY DAMAGE TO THE EXISTING PAVEMENT OR STREET SHALL BE REPAIRED BY THE CONTRACTOR TO THE CITY INSPECTOR'S SATISFACTION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY CITY OR MODOC PERMITS REQUIRED TO WORK ALONG THE ROADWAYS.
 - ALL EXISTING UTILITIES LINES / PIPING, EXPOSED DURING TRENCHING FOR NEW UTILITY INSTALLATIONS, SHALL BE SUPPORTED ACCORDING TO THE RESPECTIVE EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR TO THE RESPECTIVE UTILITY COMPANY'S SATISFACTION.
 - FLOOD DETENTION IS NOT REQUIRED BY DIFFERENTIAL FLOW OF INDIVIDUAL LOT, BUT THIS IS AN OUTLOT OF AN OVERALL DEVELOPMENT, SO DETENTION HAS ALREADY BEEN PROVIDED IN AN EXISTING REGIONAL DETENTION BASIN DOWNSTREAM.
 - WATER QUALITY IS NOT REQUIRED BY INDIVIDUAL LOT DISTURBANCE (<1 AC.), BUT THIS IS AN OUTLOT OF AN OVERALL DEVELOPMENT, SO WATER QUALITY IS REQUIRED.
 - REFER TO THE "STORMWATER MANAGEMENT FACILITIES REPORT; CALCULATIONS" AND "STORMWATER MANAGEMENT FACILITIES; OPERATION & MAINTENANCE" BY THE CLAYTON ENGINEERING COMPANY, INC. FOR POST CONSTRUCTION BMP WATER QUALITY CALCULATIONS AND MAINTENANCE & OPERATION SCHEDULE, RESPECTIVELY.
 - ANY GAS SERVICE, WATER SERVICE, ETC. BORINGS, OR EXCAVATIONS IN THE STATE RIGHT-OF-WAY SHALL REQUIRE A MODOC UTILITY PERMIT. THE CONTRACTOR SHALL CONTACT MODOC SENIOR TRAFFIC SPECIALIST, PAUL GRAHAM AT (314) 565-0714, AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES. IT IS SUGGESTED THIS PROCESS SHOULD BE STARTED IMMEDIATELY AFTER THE PROJECT IS AWARDED.
 - REFER TO LIGHTING PLAN FOR PHOTOMETRICS AND LIGHTING DETAILS.
 - THIS PROJECT DOES NOT PROPOSE ANY IRRIGATION OF THE LANDSCAPE AREAS.
 - RESTAURANT HAS A 2,000 GALLON GREASE INTERCEPTOR LOCATED EXTERIOR OF THE BUILDING. SEE THIS PLAN AND DETAIL ON CS.
 - ALL ROOFTOP EQUIPMENT SHALL BE COMPATIBLE WITH THE BUILDING MATERIAL, AND AT LEAST EQUAL TO THE HEIGHT OF THE SCREENED EQUIPMENT. REFER TO THE ARCHITECTURAL PLANS FOR MORE INFORMATION.
 - WATER SERVICE NOTE: 1-1/2" METER AND LINE - THE PUBLIC WATER SUPPLY DISTRICT NO. 2 WILL SUPPLY ONLY THE WATER METER, GASKETS AND BOLTS AND NUTS NEEDED TO COMPLETE THE SERVICE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE TAPPING SADDLE AS WELL AS EXCAVATION, TRENCHING, BACKFILLING AND INSTALLATION. IT SHALL BE WITNESSED AND INSPECTED BY THE WATER DISTRICT. PROVIDE MINIMUM OF 1 WEEK NOTICE TO WATER DISTRICT. 1-1/2" LINES CAN BE TYPE K COPPER ON DISCHARGE SIDE OF THE METER. ALL INSTALLATION TO FOLLOW PUBLIC WATER SUPPLY DISTRICT NO. 2 STANDARDS AND SPECIFICATIONS.
 - ALL WATER AND FIRE FITTINGS SHOWN ARE FOR HORIZONTAL CHANGES IN DIRECTION. THE CONTRACTOR SHALL DETERMINE BEST LOCATIONS FOR FITTINGS TO ACHIEVE VERTICAL CHANGES IN ALIGNMENT WHILE MAINTAINING PROPER INSTALLATION DEPTH AND OBTAINING PROFIT FROM UTILITIES. CROSSINGS, ADDITION OF AIR RELEASE VALVES MAY BE NECESSARY IF ISOLATED HIGH POINTS IN WATER/FIRE LINES ARE CREATED WHERE AIR MAY BE TRAPPED.
 - ALL WATER AND FIRE LINE FITTINGS TO BE THRUST BLOCKED PER PUBLIC WATER SUPPLY DISTRICT NO. 2 STANDARDS AND SPECIFICATIONS.
 - MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINES AND SANITARY/STORM SEWERS SHALL BE 18-INCHES. CONTRACTOR TO DIP NEW WATER LINES UNDER SANITARY/STORM SEWERS TO OBTAIN CLEARANCE. AS AN ALTERNATIVE OPTION AND WITH PRIOR APPROVAL FROM THE ENGINEER, CONCRETE ENCASE WATER LINES WHEN CLEARANCE IS NOT POSSIBLE. THE WATER DISTRICT REQUIRES A MINIMUM OF 42" OF COVER AND A MAXIMUM OF 72" OF COVER OVER ITS WATER MAINS. ADDITIONALLY ALL EXISTING VALVES MUST REMAIN OR BE BROUGHT TO GRADE.
 - ANY EXISTING LIGHT POLES, UTILITY POLES, OVERHEAD ELECTRIC & TELEPHONE WIRES, AND/OR UNDERGROUND ELECTRIC MARKED TO BE REMOVED AND/OR RELOCATED ARE TO BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR MUST COORDINATE WITH AMEREN MISSOURI, AT&T, AND ANY ADDITIONAL COMPANIES WHO HAVE WIRES ON THESE POLES. PRIOR TO ANY WORK IN THIS AREA, REFER TO THE ELECTRICAL PLANS FOR NEW LOCATIONS AND FURTHER INFORMATION.
 - EXISTING UTILITIES (UNDERGROUND ELECTRIC, GAS, AND WATER) ARE SHOWN APPROXIMATELY. THESE LOCATIONS WERE PLOTTED FROM MISSOURI ONE-CALL SYSTEM MARKINGS AT THE TIME OF THE SURVEY FIELD WORK.

- DUCKETT CREEK SANITARY DISTRICT (DCSD) NOTES:**
- EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
 - CONNECTION TO DCSD SANITARY SEWERS REQUIRES DCSD INSPECTION. CONTACT THE DCSD INSPECTION DEPARTMENT AT 636-441-1344 TO SCHEDULE INSPECTION. 48-HOUR ADVANCE NOTICE IS REQUIRED.
 - EXISTING 6-INCH SANITARY LATERAL TO BE CAPPED IF NOT USED. CAP LATERAL BACK AS CLOSE AS POSSIBLE TO THE EXISTING SANITARY MAIN. CAPPING REQUIRES DCSD INSPECTION.
 - THE CONNECTION IS A PRIVATE LATERAL CONNECTION. NO TESTING OF SANITARY MANHOLES OR MAINS IS NEEDED.

Some recent changes concern Pipe Field Testing and performance, and include the following:

PART 4 - PIPE SEWER CONSTRUCTION

Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing - delete the first sentence and the following replacement applies:

All sanitary and combined sewers shall sustain a maximum leakage limit of 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications.

Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing, Subparagraph c, Infiltration/Exfiltration Testing - delete the sixth sentence, concerning leakage limits, and the following replacement applies:

The measurement of leakage shall not exceed 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications.

Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph a, Vacuum Testing - after the first sentence the following addition applies:

The vacuum test must be performed prior to backfilling around the manhole unless the contractor provides documentation from the precast manhole manufacturer stating that the manhole may be vacuum tested after backfilling has taken place. The contractor must submit this documentation prior to backfilling around any manhole.

Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph b, Exfiltration Testing - delete the second sentence, concerning leakage limits, and the following addition applies:

For exfiltration testing, the allowable leakage limit is 100 gallons/inch of pipe diameter/mile of line/day when the average head on the test section is three feet (3') or less.

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the clayton engineering company, inc.

ENGINEERS • SURVEYORS • PLANNERS

2288 WESCH INDUSTRIAL COURT
ST. LOUIS, MISSOURI 63146
(314) 692-8888 FAX: (314) 692-8888
1400 Car. La. Avenue, St. Louis, MO 63104
1-800-368-8888

REVISIONS	DATE	BY	DESCRIPTION
1	06/08/2020	EJS	Revised per City, MODOC, and Utility Company Comments
2	07/27/2020	RKF	Revised water meter location

FILE: G:\2006\2020\2020\PE-2006000132\PE-2006000132.dwg
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Prepared for:

Z & H FOODS INC.
4415 HIGHWAY 6
SUGAR LAND, TX 77478
801-651-1748

UTILITY PLAN

POPEYES L.K. - OF FALLON, MO

6874 Keaton Corporate Parkway
OF FALLON, MO 63368

Designed: EJS
Drawn: EJS, RKF
Checked: EJS
Date: May 8, 2020

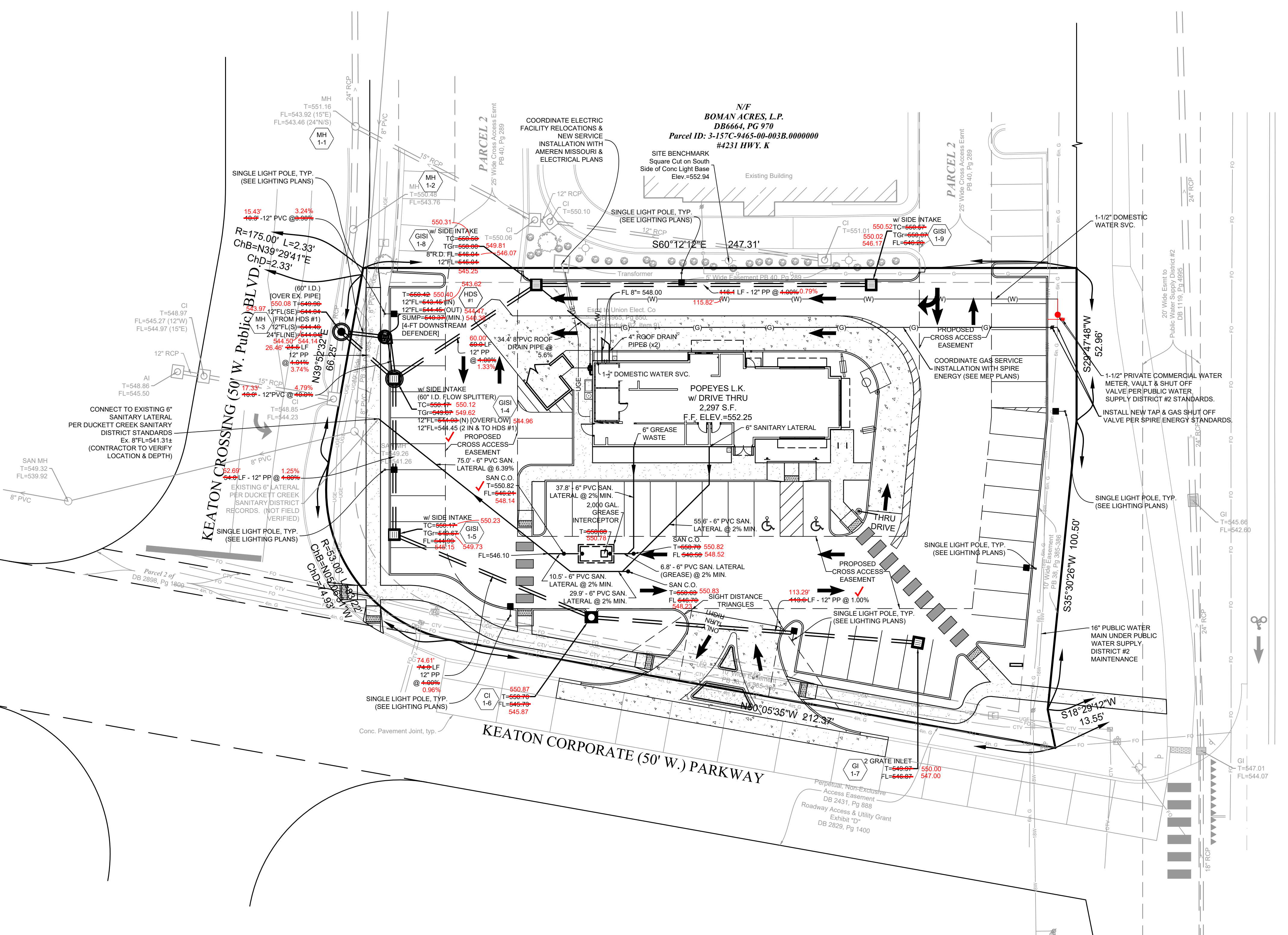
Project Number: 20027
Sheet Number: C4.0

Call Before you DIG
Dial 811 or TOLL FREE
1-800-344-7483
moicall.com
MISSOURI ONE-CALL SYSTEM INC.

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.

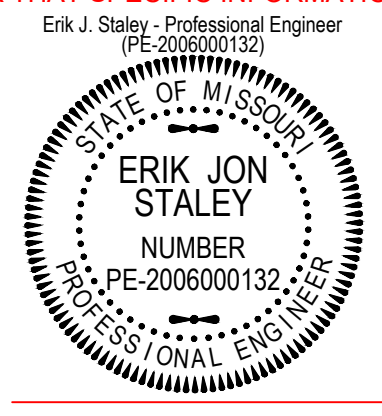
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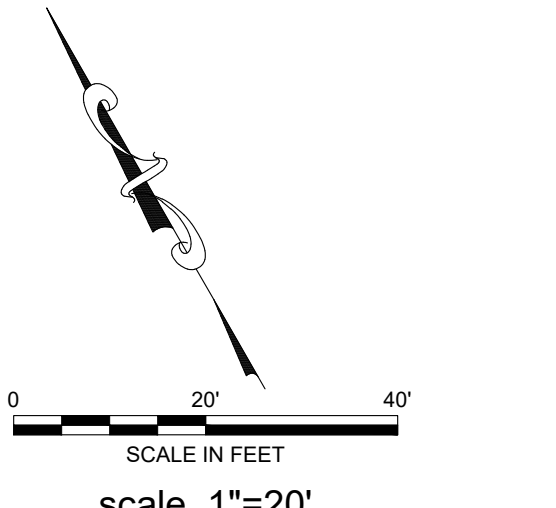
FINAL ASBUILT MEASUREMENTS

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SIGNED: *Erik J. Staley*
DATE: 10/26/2020



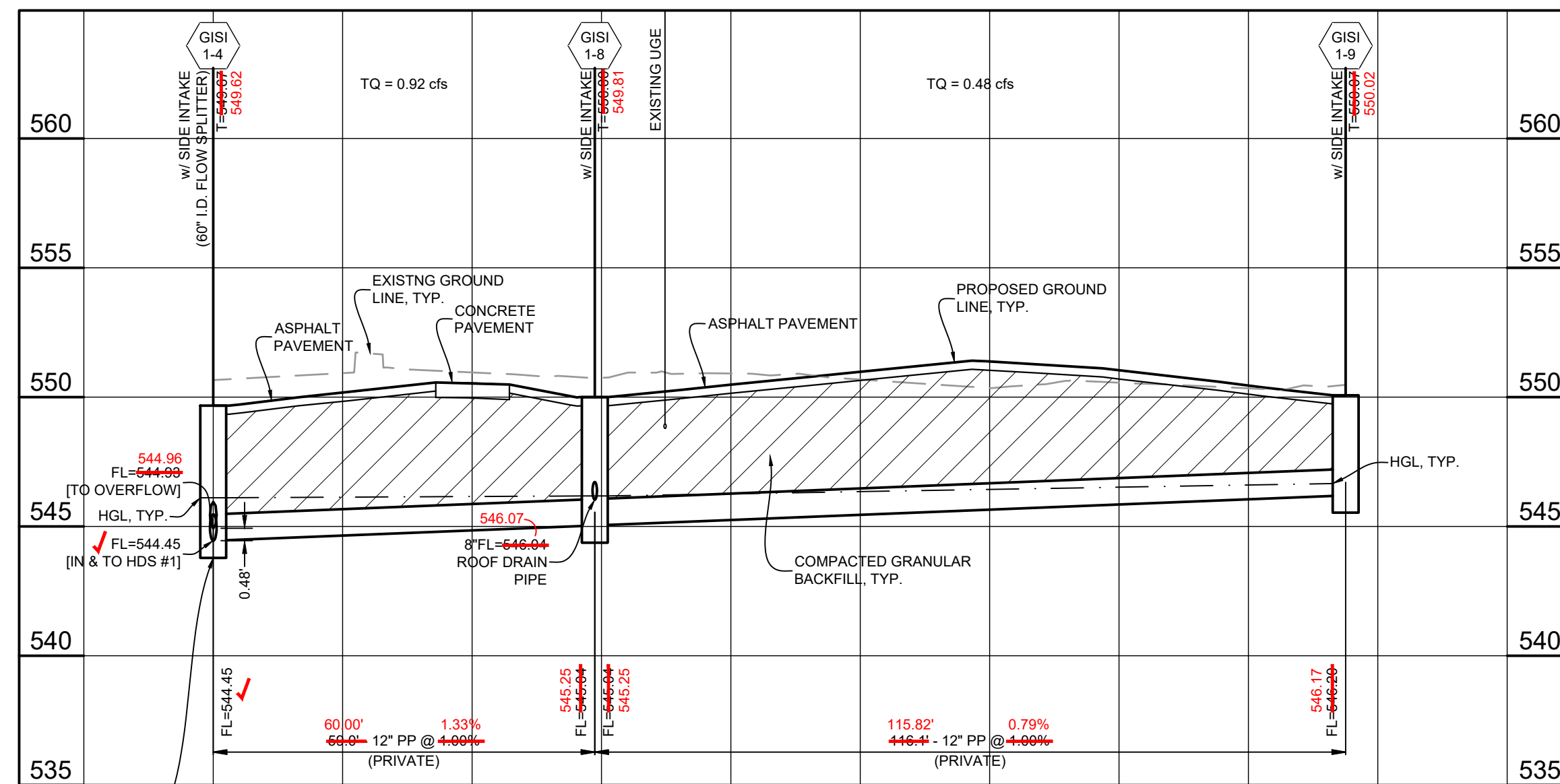
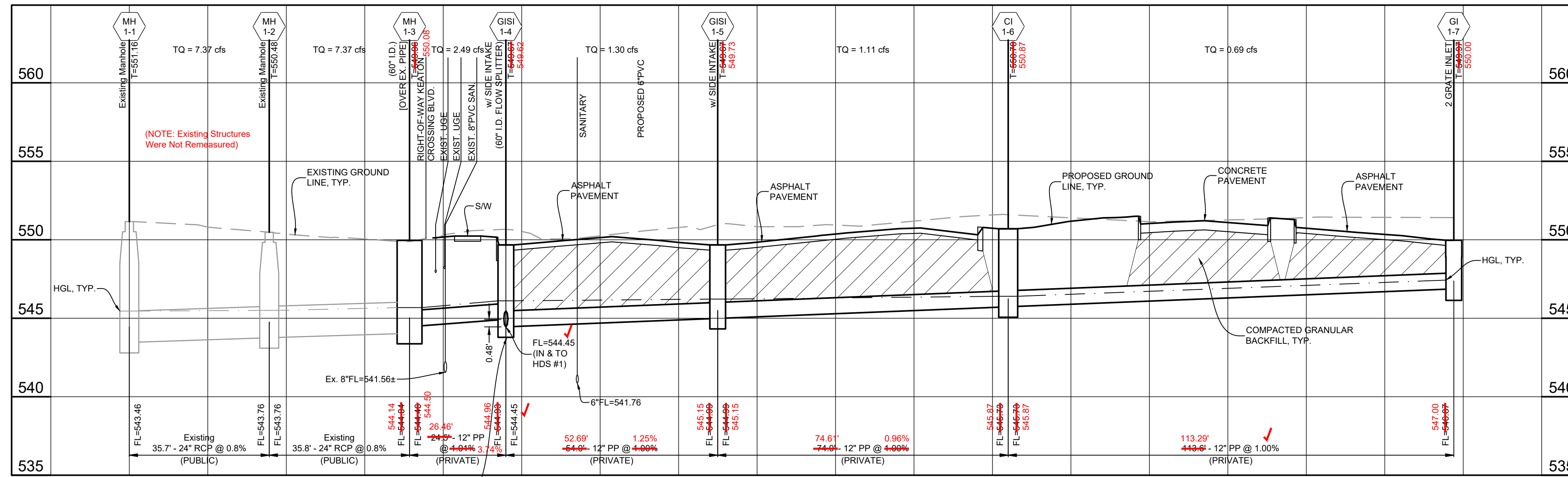
ERIK J. STALEY, PE-2006000132
CLAYTON ENGINEERING CO.
MO. CORPORATE NO. LS 14-D



Note: Caution should be taken in comparing the written scale to the graphic scale to ascertain if this plan has been enlarged or reduced.

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- LEGEND:
- FL - FLOW LINE OF STRUCTURE
 - HGL - HYDRAULIC GRADE LINE (15-YR STORM)
 - PP - POLYPROPYLENE PIPE
 - RCP - REINFORCED CONCRETE PIPE
 - T - TOP OF STRUCTURE
 - TC - TOP OF CURB AT STRUCTURE
 - TGr - TOP OF GRATE
 - TQ - TOTAL FLOW (15-YR STORM)

* SEE SHEET C4.2 FOR PROFILE OF STORM SEWER REACH FOR HYDRODYNAMIC SEPARATOR UNIT.
 * TOTAL FLOW, "TQ", SHOWN ON THESE PROFILES IS BASED ON THE 15-YR, 20-MIN DESIGN STORM WITH A GROUND SATURATION FACTOR OF 1.1 APPLIED.

HYDRAULIC CALCULATION NOTE:
 1. STORM SEWER SYSTEM WITH HDS UNIT ON IT DOES NOT INCLUDE THE HYDRAULIC IMPACT OF THE HDS UNIT ON THE CALCULATIONS. TO BE CONSERVATIVE, THE FLOW CAPACITY OF THE HDS UNIT IS IGNORED, AND THE HYDRAULICS ARE CREATED AS IF THE HDS UNIT IS NOT THERE.

GRANULAR BACKFILL NOTE:
 1. COMPACTED GRANULAR BACKFILL SHALL BE PLACED UNDER PAVEMENT AND CURB FOR ALL ITEMS REQUIRING TRENCH BACKFILL.

CONCRETE ENCASUREMENT NOTE:
 1. ENCASE WITH CONCRETE BOTH SANITARY AND STORM SEWER AT CROSSING WHEN STORM SEWER IS WITHIN 18 INCHES ABOVE SANITARY SEWER. ADD CONCRETE CRADLE TO ONLY RCP STORM SEWER AND ENCASE FLEXIBLE STORM SEWER WHEN IT IS MORE THAN 18 INCHES ABOVE SANITARY LINE PER CITY OF O'FALLON.

EXISTING UTILITY DISCLAIMER:
 1. EXISTING UTILITIES UNDERGROUND (ELECTRIC, GAS, AND WATER) ARE SHOWN APPROXIMATELY. THESE LOCATIONS WERE PLOTTED FROM MISSOURI ONE-CALL SYSTEM MARKINGS AT THE TIME OF THE SURVEY FIELD WORK. DEPTHS WERE NOT FIELD LOCATED, AND ARE SHOWN AT INDUSTRY STANDARDS.

System Name = Storm01
 Description = Storm01 - Onsite Storm Sewers Connecting to Ex. Public System
 Sewer Type = Storm
 System Number = 1
 Return Period (yr) = 15
 Rainfall duration (min) = 20
 Runoff Factor Multiplier = 1.000
 Starting HGL Elev. (ft) = 545.46
 Use St. Louis Co./MSD Losses? = Y

STRUCTURES UPR/LWR	FLOWLINES UPR/LWR	SIZE/ ANGLE	LENGTH/ CURVED?	n	AREA/ PI	Qadd	Qtotal/ Qfull	Cons/ Reqds	Yn/ Yc	PARTIAL V/Y	FULL V/Vhead	LOSSES F/C	COND U/L	HGL UPR/LWR	UPR STR TOP/FRBD	
GISI 1-9	546.20	12"	116.07	0.013	0.13	0.48	0.48	1.00	0.25	0.61	0.61	0.27	0.21	ND	546.66	550.07
GISI 1-8	545.04	33"	N		3.69		3.57	0.02	0.29	1.14	0.01	0.00	0.00	FP	546.18	3.41
GISI 1-8	545.04	12"	58.97	0.013	0.12	0.44	0.92	1.00	0.35	1.17	1.17	0.04	0.02	FP	546.18	550.00
GISI 1-4	544.45	75"	N		3.67		3.57	0.07	0.40	1.66	0.02	0.00	0.00	FP	546.11	3.82
GI 1-7	546.87	12"	113.57	0.013	0.19	0.69	0.69	1.00	0.30	1.23	0.88	0.77	0.26	ND	547.43	549.97
CI 1-6	545.73	18"	N		3.63		3.58	0.04	0.35	0.67	0.01	0.00	0.00	OJ	546.40	2.54
CI 1-6	545.73	12"	74.04	0.013	0.12	0.42	1.11	1.00	0.38	1.41	1.41	0.07	0.10	OC	546.40	550.70
GISI 1-5	544.99	67"	N		3.50		3.57	0.10	0.44	1.23	0.03	0.00	0.00	FP	546.22	4.30
GISI 1-5	544.99	12"	54.00	0.013	0.05	0.19	1.30	1.00	0.42	1.66	1.66	0.07	0.02	FP	546.22	549.67
GISI 1-4	544.45	48"	N		3.80		3.57	0.13	0.48	1.66	0.04	0.00	0.02	FP	546.11	3.45
GISI 1-4	544.93	12"	24.55	0.013	0.07	0.27	2.49	1.91	0.50	3.17	3.17	0.25	0.17	OF	546.11	549.67
MH 1-3	544.46	55"	N		3.86		4.94	0.49	0.68	1.22	0.16	0.00	0.02	FP	545.68	3.56
MH 1-3	544.04	24"	35.78	0.013	1.37	4.88	7.37	0.78	0.84	2.53	2.35	0.04	0.11	OC	545.68	549.96
MH 1-2	543.76	5"	N		3.56		20.07	0.11	0.96	1.74	0.09	0.00	0.03	OJ	545.50	4.28
MH 1-2	543.76	24"	35.65	0.013	0.00	0.00	7.37	0.84	0.82	2.35	2.35	0.04	0.00	OC	545.50	550.48
MH 1-1	543.46	0"	N		3.50		20.81	0.11	0.96	2.00	0.09	0.00	0.01	OJ	545.46	4.98

LEGEND

UPR - At upper end of pipe
 LWR - At lower end of pipe
 SIZE - Sewer size (diam or WxH)
 ANGLE - Downstream deflection (deg)
 LENGTH - Pipe length (ft)
 CURVED - Pipe is curved?
 n - Manning's roughness factor
 AREA - Upper drainage area (ac)
 PI - Runoff factor (cfs/ac)
 Qadd - Added flowrate (cfs)
 Qtotal - Total flowrate (cfs)
 Qfull - Pipe full capacity (cfs)
 Cons - Construction slope of pipe (%)
 Reqds - Minimum required slope (%)

Yn - Normal depth (ft)
 Yc - Critical depth (ft)
 PARTIAL - Conditions at lower end of pipe
 FULL - Conditions assuming full pipe flow
 V - Velocity (fps)
 Vhead - Velocity head (ft)
 LOSSES - Major and minor head losses
 F - Friction in pipe (ft)
 C - Curve in pipe (ft)
 V - Velocities in upper structure (ft)
 T - Turns in upper structure (ft)

COND - Flow condition code at each pipe end:
 FP - full pipe flow
 OC - open channel flow
 ND - set to normal depth
 CD - set to critical depth
 OF - initially set to open channel depth then set to full pipe flow
 OJ - open channel flow but hydraulic jump may occur downstream

HGL - Hydraulic grade line elevation (ft)
 TOP - Elev. of top of upper struct (ft msl)
 FRBD - Difference btwn upper HGL and TOP (ft)

Notes:
 1. Friction losses computed w/ Manning's formula if full pipe flow or back-calculated if open channel flow (simulating flow profile)
 2. HGL at upper structure includes structure losses calculated with actual inflowing velocities using iterative procedure
 3. Velocity and turn structure loss components only computed for incoming pipes with invert elevations below outlet crown elevation

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 DATE: 10/26/2020



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ASBUILTS 10/26/20

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 E-Mail: info@claytoneng.com
 Web: www.claytoneng.com

REVISIONS

NO.	DATE	BY	REVISION
1	06/08/2020	EJS	Revised per City, MCDOT, and Utility Company Comments
2	07/27/2020	RKF	Revised water meter location

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Prepared for:
Z & H FOODS INC.
 4415 HIGHWAY 6
 SUGAR LAND, TX 77478
 801-651-1748

POPEYES L.K. - O'FALLON, MO
 SEWER PROFILES

Designed: EJS
 Drawn: EJS, RKF
 Checked: EJS
 Date: May 8, 2020

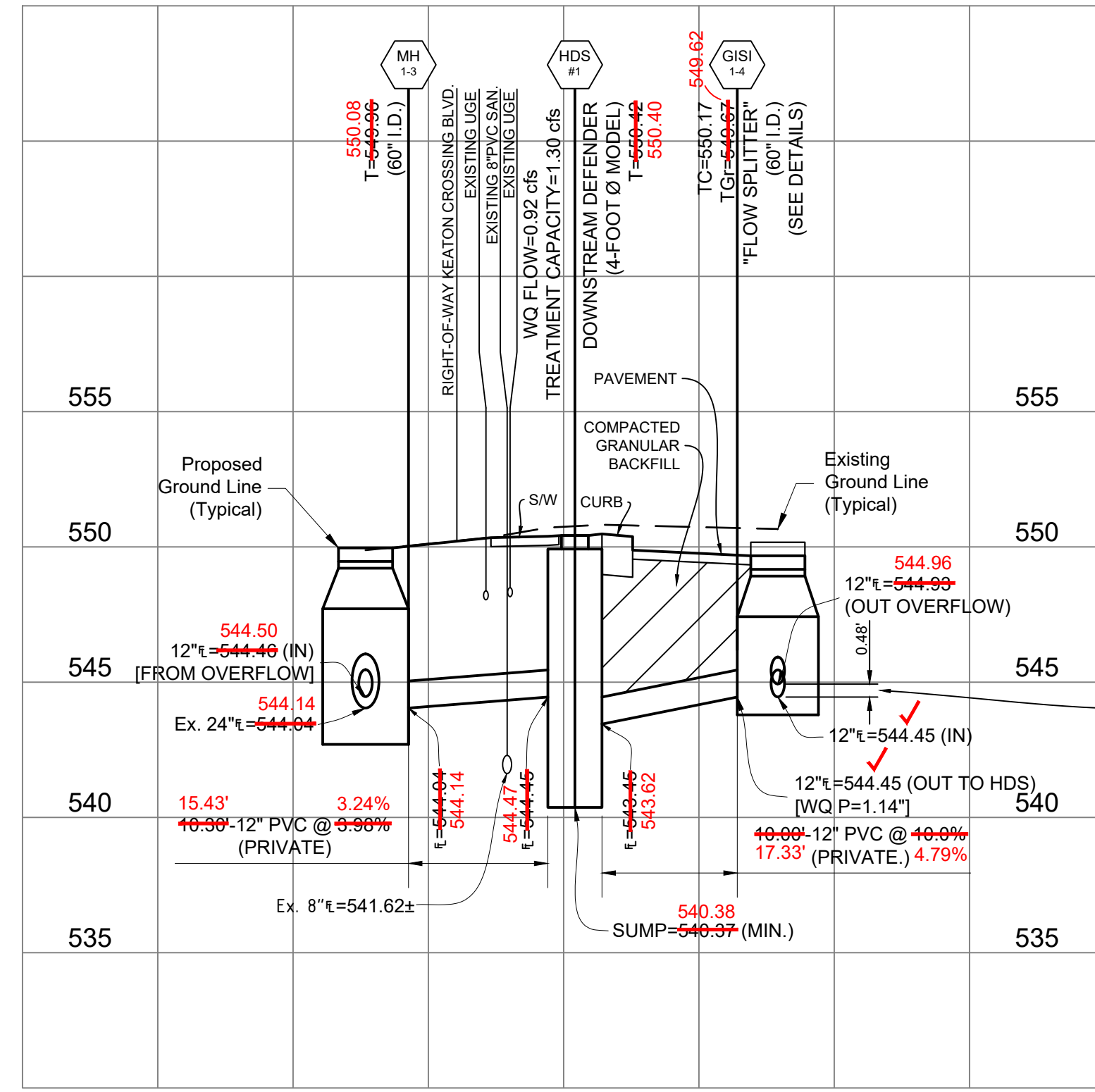
Project Number: 20027
 Sheet Number: C4.1



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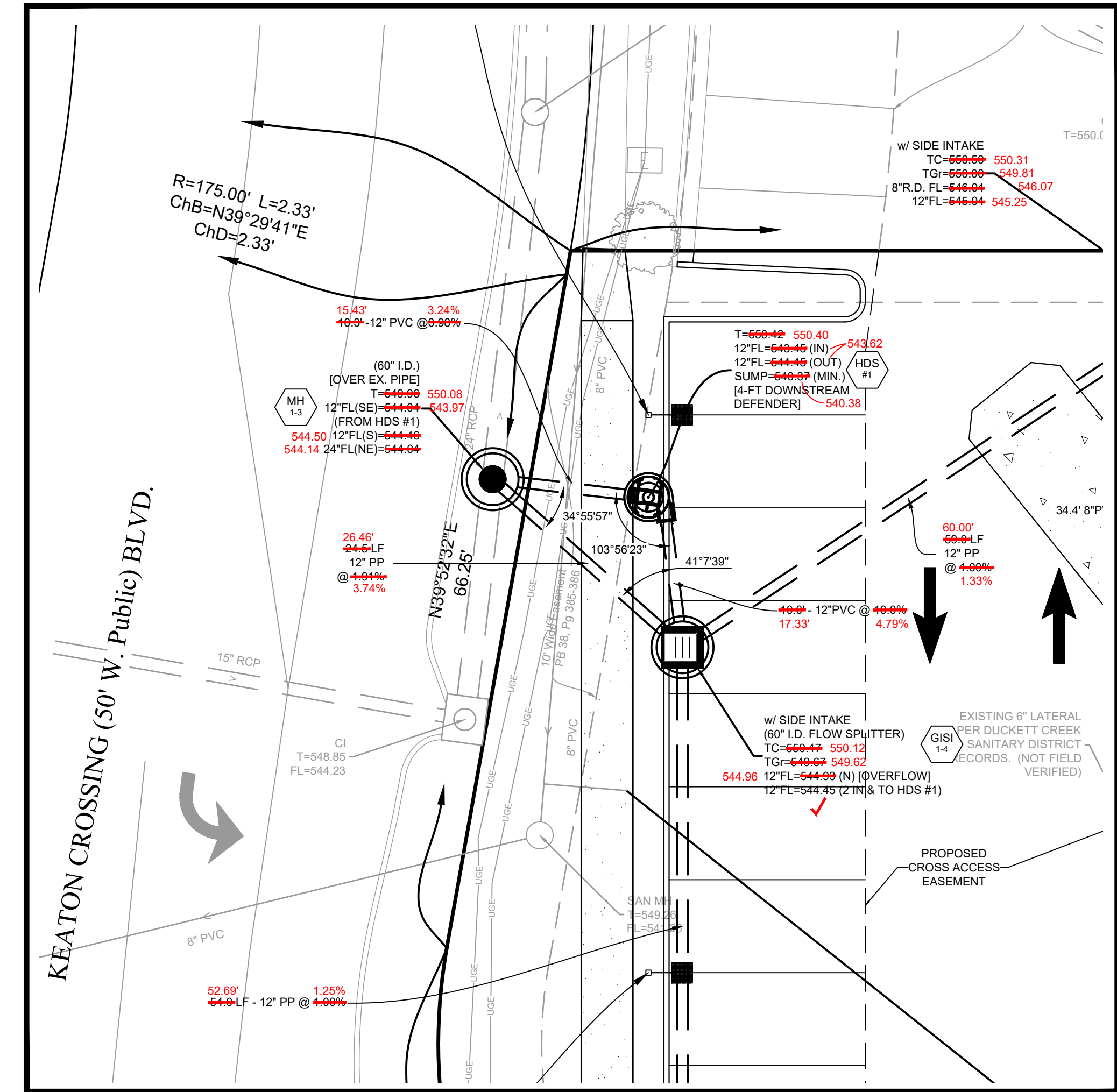
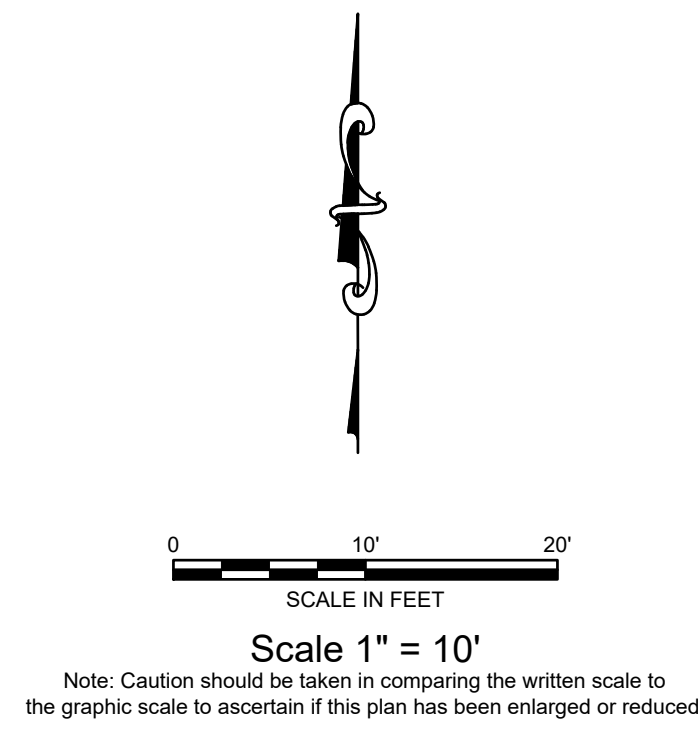
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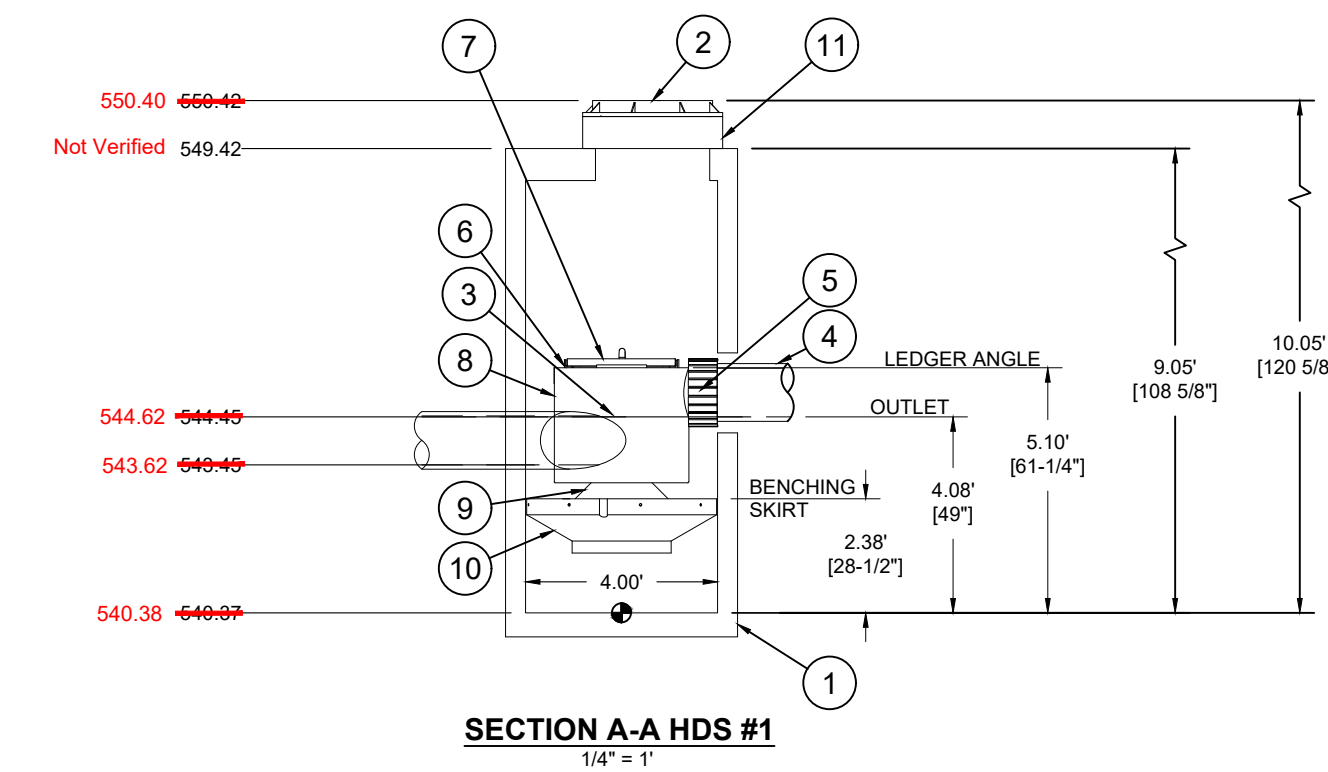
- HDS UNIT NOTES:**
- HDS UNIT = HYDRODYNAMIC SEPARATOR UNIT (WATER QUALITY PROPRIETARY DEVICE)
 - THE PIPE SLOPES IN AND OUT OF THE HYDRODYNAMIC SEPARATOR ARE CALCULATED BASED ON THE DISTANCE BETWEEN THE INSIDE OF A 60" (I.D.) STRUCTURE (GIS1 1-4) AND THE INTAKE CONNECTION POINT OF THE HDS UNIT, AND BETWEEN THE DISCHARGE CONNECTION POINT OF THE HDS UNIT AND INSIDE OF A 60" (I.D.) STRUCTURE (MH 1-3). 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 GIS1 1-4 OR MH 1-3, 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.
 - THE PROJECT ENGINEER SHALL PROVIDE SHOP DRAWINGS APPROVED BY A PROFESSIONAL ENGINEER LICENSED IN MISSOURI FOR APPROVAL TO THE CITY PRIOR TO CONSTRUCTION OF THESE STRUCTURES. STRUCTURES SHALL BE DESIGNATED TO SUSTAIN HS-20 LOADS.
 - THE CONTRACTOR IS RESPONSIBLE TO HAVE THE MANUFACTURER PROVIDE THE SHOP DRAWINGS FOR THE HDS UNIT.

HDS UNIT #1 PROFILE VIEW
SCALE: H: 1"=10'
V: 1"=5'

THE CONTRACTOR MUST VERIFY THE DIMENSIONS BETWEEN THE DIVERSION PIPE AND THE OVERFLOW PIPE PRIOR TO BACKFILL OF THE STRUCTURE AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCY WITH THE DIMENSIONS ON THE APPROVED PLANS. STRUCTURES BUILT INCORRECTLY WILL REQUIRE REMOVAL AND REPLACEMENT.



HYDRODYNAMIC SEPARATOR #1 - WATER QUALITY AREA 'A'
SCALE: 1"=10'



- CAPACITIES**
- PEAK TREATMENT FLOW: 3.0 CFS (85 L/S) [MSD PEAK FLOW = 1.30 CFS]
 - SEDIMENT STORAGE CAPACITY: 0.70 YD³ (0.54 m³)
 - OIL STORAGE CAPACITY: 70 GALLONS (265 LITERS)

- ADDITIONAL DESIGN INFORMATION**
- THE OUTLET PIPE STUB IS A ROTO-MOLDED PRODUCT WITH AN I.D. OF 12" THAT CANNOT BE MODIFIED. TO AVOID THE USE OF A REDUCER OR EXPANDER ON THE OUTLET A 12" OUTLET PIPE SHOULD BE USED IF POSSIBLE.
 - ONLY SMALLER INLET PIPES MAY BE USED. THE INLET PIPE INVERT SHOULD BE PLACED ONE INLET PIPE DIAMETER BELOW THE OUTLET PIPE INVERT. THE I.D. OF THE INLET PIPE SHOULD BE PLACED TANGENT TO THE I.D. OF THE MANHOLE. HEADLOSS AT 3.0 CFS WITH A 12" INLET 8' (203 mm) HEADLOSS WILL INCREASE WITH SMALLER INLET PIPES.
 - SEDIMENT SHALL BE STORED IN A ZONE THAT IS ISOLATED FROM THE MAIN FLOW PATH AND PROTECTED FROM RE-ENTRAINMENT BY THE BENCHING SKIRT.

PARTS LIST: 4' DOWNSTREAM DEFENDER

ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	48	CONCRETE	I.D. PRECAST MANHOLE
2	30	-	FRAME & COVER
3	12	PVC	INLET PIPE (BY OTHERS)
4	12	PVC	OUTLET PIPE (BY OTHERS)
5	12	-	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)

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

IMPORTANT: INSTALLATION OF THE HYDRODYNAMIC SEPARATOR BMP SHALL ONLY BE PERFORMED WITH THIS BMP KEPT OFFLINE, WITH NO RUNOFF PASSING THROUGH IT. IT CAN NOT BE BROUGHT ONLINE UNTIL THE PAVEMENT AND GROUND SURFACE, INCLUDING VEGETATION, IS ESTABLISHED OVER THE AREA THAT DRAINS TO IT. CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO THE BMP. ALL STORMWATER FLOW TO THIS BMP SHALL BE DIVERTED PLUGGED OR DISCONNECTED AT THE UPSTREAM METERING STRUCTURES OR TEMPORARY GRADING UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ONLINE.

BMP Maintenance & Operation Plan
The Property Owner's appointed Maintenance Staff shall be responsible for cleaning and maintaining the HydroDynamic Separator Unit.

The specific methods and practices required for the maintenance and operation of these stormwater facilities is explained in the "Stormwater Management Facilities Report: Calculations" dated APRIL 2020, or latest edition, and in the "Stormwater Management Facilities: Operation and Maintenance", dated APRIL 2020, or latest edition, by The Clayton Engineering Company, Inc.

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SIGNED: *Erik J. Staley*
DATE: 10/26/2020



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CLAYTON ENGINEERING CO.
MO. CORPORATE NO. LS 14-D

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REVISIONS

NO.	DATE	DESCRIPTION
1	06/08/2020	EJS
2	07/27/2020	RKF

1. Revised per City, MODOOT, and Utility Company Comments
2. Revised water meter location

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Prepared for:
Z & H FOODS INC.
4415 HIGHWAY 6
SUGAR LAND, TX 77478
801-651-1748

STORMWATER MANAGEMENT FACILITIES
POPEYES L.K. - OF FALLON, MO
OF FALLON, MO 63368

Designed: EJS
Drawn: EJS, RKF
Checked: EJS
Date: May 8, 2020

Project Number: 20027
Sheet Number: C4.2