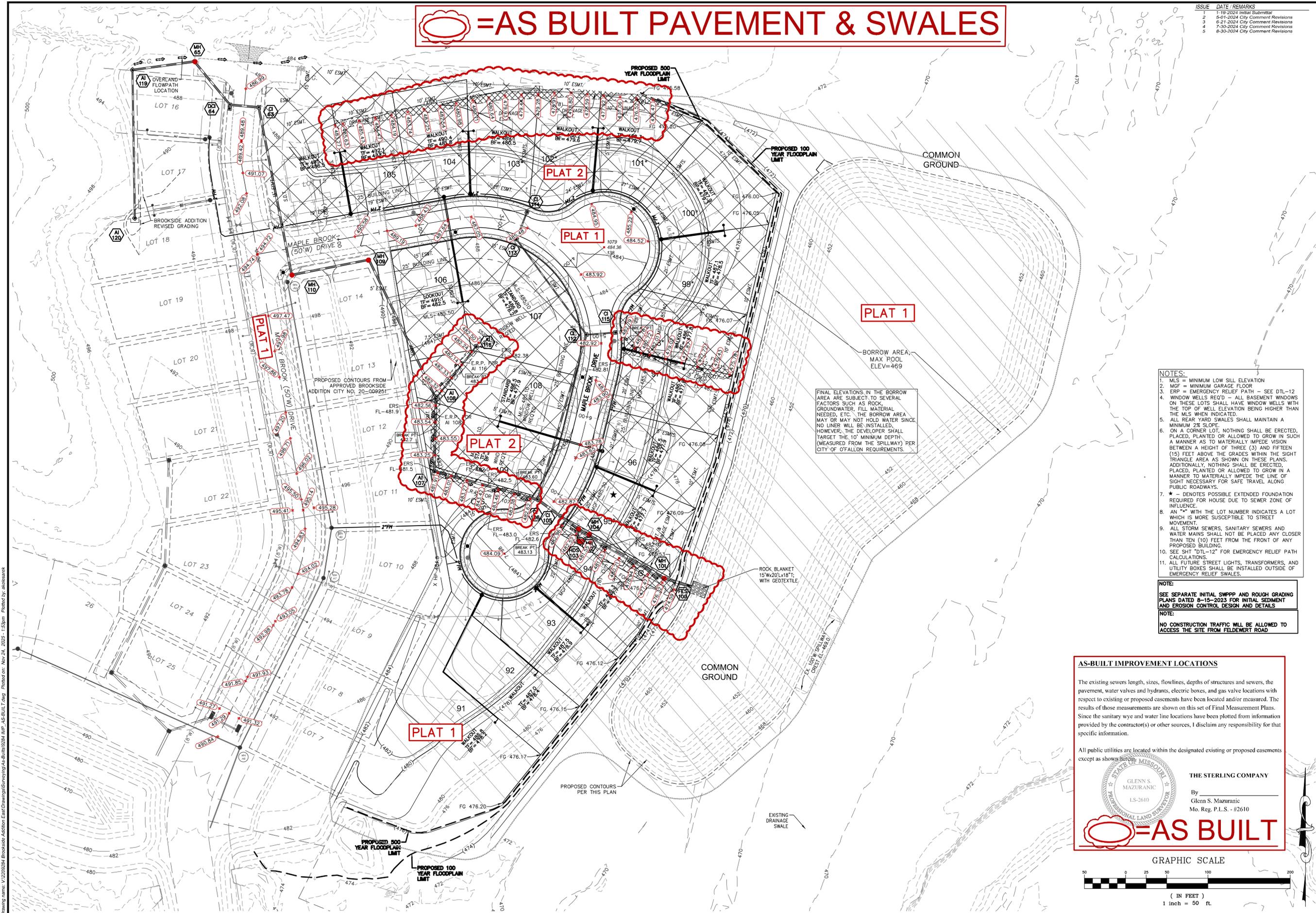


=AS BUILT PAVEMENT & SWALES

ISSUE	DATE / REMARKS
1	1-19-2024 Initial Submittal
2	6-01-2024 City Comment Revisions
3	6-21-2024 City Comment Revisions
4	7-30-2024 City Comment Revisions
5	8-30-2024 City Comment Revisions



FINAL ELEVATIONS IN THE BORROW AREA ARE SUBJECT TO SEVERAL FACTORS SUCH AS ROCK, GROUNDWATER, FILL MATERIAL NEEDED, ETC. THE BORROW AREA MAY OR MAY NOT HOLD WATER SINCE NO LINER WILL BE INSTALLED. HOWEVER, THE DEVELOPER SHALL TARGET THE 10' MINIMUM DEPTH (MEASURED FROM THE SPILLWAY) PER CITY OF FALLON REQUIREMENTS.

- NOTES:**
- MLS = MINIMUM LOW SILL ELEVATION
 - MGF = MINIMUM GARAGE FLOOR
 - ERP = EMERGENCY RELIEF PATH - SEE DTL-12
 - WINDOW WELLS REQUIRED - ALL BASEMENT WINDOWS ON THESE LOTS SHALL HAVE WINDOW WELLS WITH THE TOP OF WELL ELEVATION BEING HIGHER THAN THE MLS WHEN INDICATED.
 - ALL REAR YARD SWALES SHALL MAINTAIN A MINIMUM 2% SLOPE.
 - ON A CORNER LOT, NOTHING SHALL BE ERRECTED, PLACED, PLANTED OR ALLOWED TO GROW IN SUCH A MANNER AS TO MATERIALLY IMPEDE VISION BETWEEN A HEIGHT OF THREE (3) AND FIFTEEN (15) FEET ABOVE THE GRADES WITHIN THE SIGHT TRIANGLE AREA AS SHOWN ON THESE PLANS. ADDITIONALLY NOTHING SHALL BE ERRECTED, PLACED, PLANTED OR ALLOWED TO GROW IN A MANNER TO MATERIALLY IMPEDE THE LINE OF SIGHT NECESSARY FOR SAFE TRAVEL ALONG PUBLIC ROADWAYS.
 - * - DENOTES POSSIBLE EXTENDED FOUNDATION REQUIRED FOR HOUSE DUE TO SEWER ZONE OF INFLUENCE.
 - AN "X" WITH THE LOT NUMBER INDICATES A LOT WHICH IS MORE SUSCEPTIBLE TO STREET MOVEMENT.
 - ALL STORM SEWERS, SANITARY SEWERS AND WATER MAINS SHALL NOT BE PLACED ANY CLOSER THAN TEN (10) FEET FROM THE FRONT OF ANY PROPOSED BUILDING.
 - SEE SHIT "DT1-12" FOR EMERGENCY RELIEF PATH CALCULATIONS.
 - ALL FUTURE STREET LIGHTS, TRANSFORMERS, AND UTILITY BOXES SHALL BE INSTALLED OUTSIDE OF EMERGENCY RELIEF SWALES.

NOTE:
SEE SEPARATE INITIAL SWPPP AND ROUGH GRADING PLANS DATED 8-15-2023 FOR INITIAL SEDIMENT AND EROSION CONTROL DESIGN AND DETAILS

NOTE:
NO CONSTRUCTION TRAFFIC WILL BE ALLOWED TO ACCESS THE SITE FROM FELDEWERT ROAD

AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

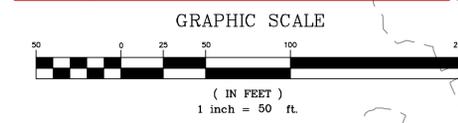
All public utilities are located within the designated existing or proposed easements except as shown herein.

GLENN S. MAZURANIC
LS-2610

THE STERLING COMPANY

By
Glenn S. Mazuranic
Mo. Reg. P.L.S. - #2610

=AS BUILT



PROJECT TITLE
BROOKSIDE
ADDITION
PHASE 4
 OF FALLON, MISSOURI
CITY - PLATS 1 & 2

THE STERLING CO.
ENGINEERS & SURVEYORS
 5065 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph 314-487-0440 Fax 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

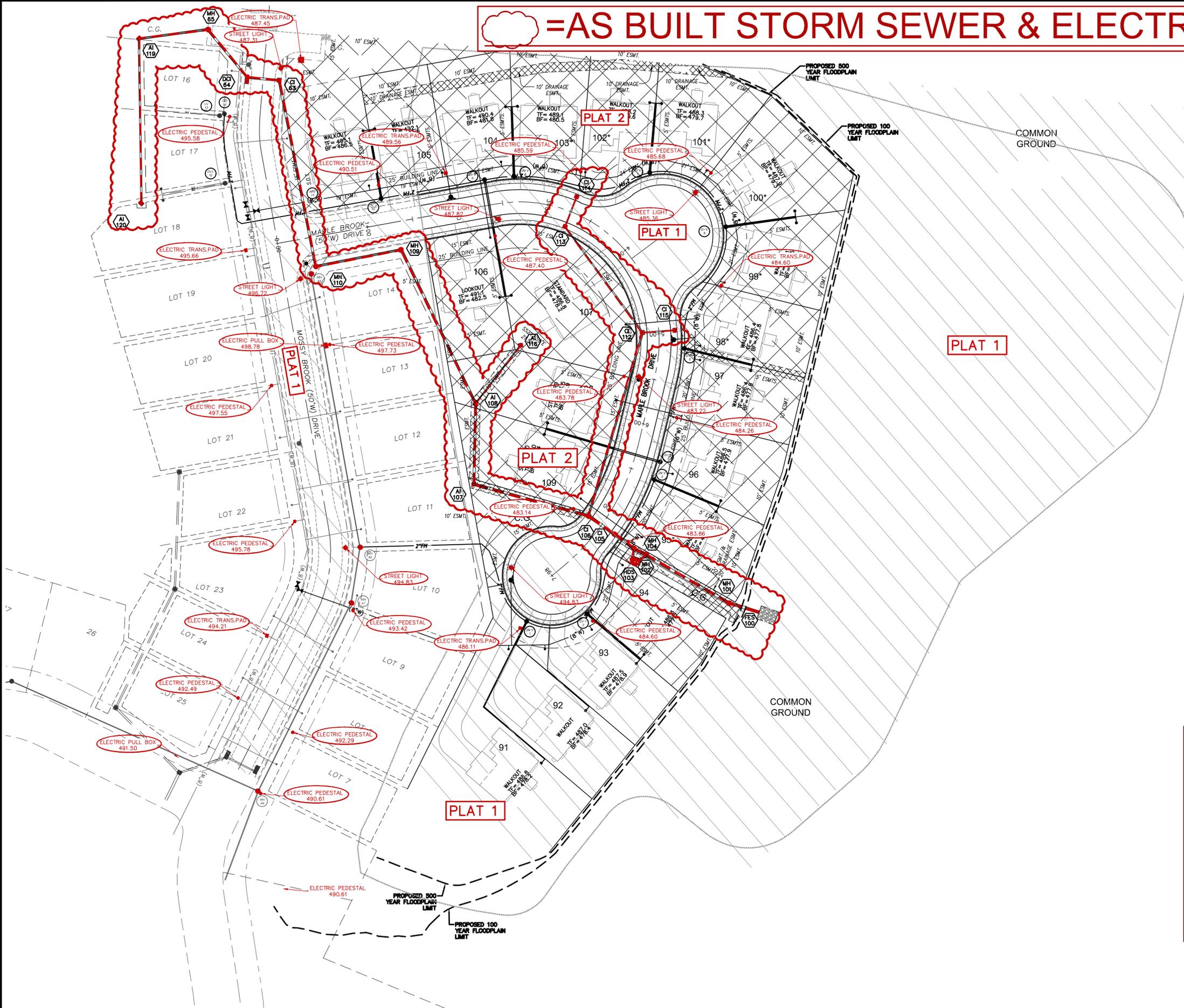
Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph. (636) 265-2710
 Fax (636) 695-3195
 www.lombardohomesstlouis.com

P+Z No. 23-010457
City No. 24-000568
Date: 8/30/2024
Job No. 22-09-284

Page No.
3.1
 As-Built-IMP

☁️ = AS BUILT STORM SEWER & ELECTRIC

ISSUE	DATE / REMARKS
1	1-19-2024 Initial Submittal
2	8-01-2024 City Comment Revisions
3	6-21-2024 City Comment Revisions
4	7-30-2024 City Comment Revisions
5	8-30-2024 City Comment Revisions



- NOTES:**
- ON A CORNER LOT, NOTHING SHALL BE ERECTED, PLACED, PLANTED OR ALLOWED TO GROW IN SUCH A MANNER AS TO MATERIALLY IMPEDE VISION BETWEEN A HEIGHT OF THREE (3) AND FIFTEEN (15) FEET ABOVE THE GRADES WITHIN THE SIGHT TRIANGLE AREA AS SHOWN ON THESE PLANS. ADDITIONALLY, NOTHING SHALL BE ERECTED, PLACED, PLANTED OR ALLOWED TO GROW IN A MANNER TO MATERIALLY IMPEDE THE LINE OF SIGHT NECESSARY FOR SAFE TRAVEL ALONG PUBLIC ROADWAYS.
 - * DENOTES POSSIBLE EXTENDED FOUNDATION REQUIRED FOR HOUSE DUE TO SEWER ZONE OF INFLUENCE.
 - AN ** WITH THE LOT NUMBER INDICATES A LOT WHICH IS MORE SUSCEPTIBLE TO STREET MOVEMENT.
 - A 4" PERFORATED UNDER-DRAIN SYSTEM SHALL BE PLACED AT ALL STORM INLETS IN THE STREET.
 - ALL STORM SEWERS, SANITARY SEWERS AND WATER MAINS SHALL NOT BE PLACED ANY CLOSER THAN TEN (10) FEET FROM THE FRONT OF ANY PROPOSED BUILDING.
 - ALL FUTURE STREET LIGHTS, TRANSFORMERS, AND UTILITY BOXES SHALL BE INSTALLED OUTSIDE OF EMERGENCY RELIEF SWALES.
- NOTE:**
SEE SEPARATE INITIAL SWPPP AND ROUGH GRADING PLANS DATED 8-15-2023 FOR INITIAL SEDIMENT AND EROSION CONTROL DESIGN AND DETAILS.
- NOTE:**
NO CONSTRUCTION TRAFFIC WILL BE ALLOWED TO ACCESS THE SITE FROM FELDEWERT ROAD

AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed casements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

All public utilities are located within the designated existing or proposed casements except as shown herein.

GLENN S. MAZURANIC
LS-2610

THE STERLING COMPANY

By _____
Glenn S. Mazuranic
Mo. Reg. P.L.S. - #2610

=AS BUILT

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

PROJECT TITLE
BROOKSIDE
ADDITION
PHASE 4
OFFALON, MISSOURI
CITY - PLATS 1 & 2

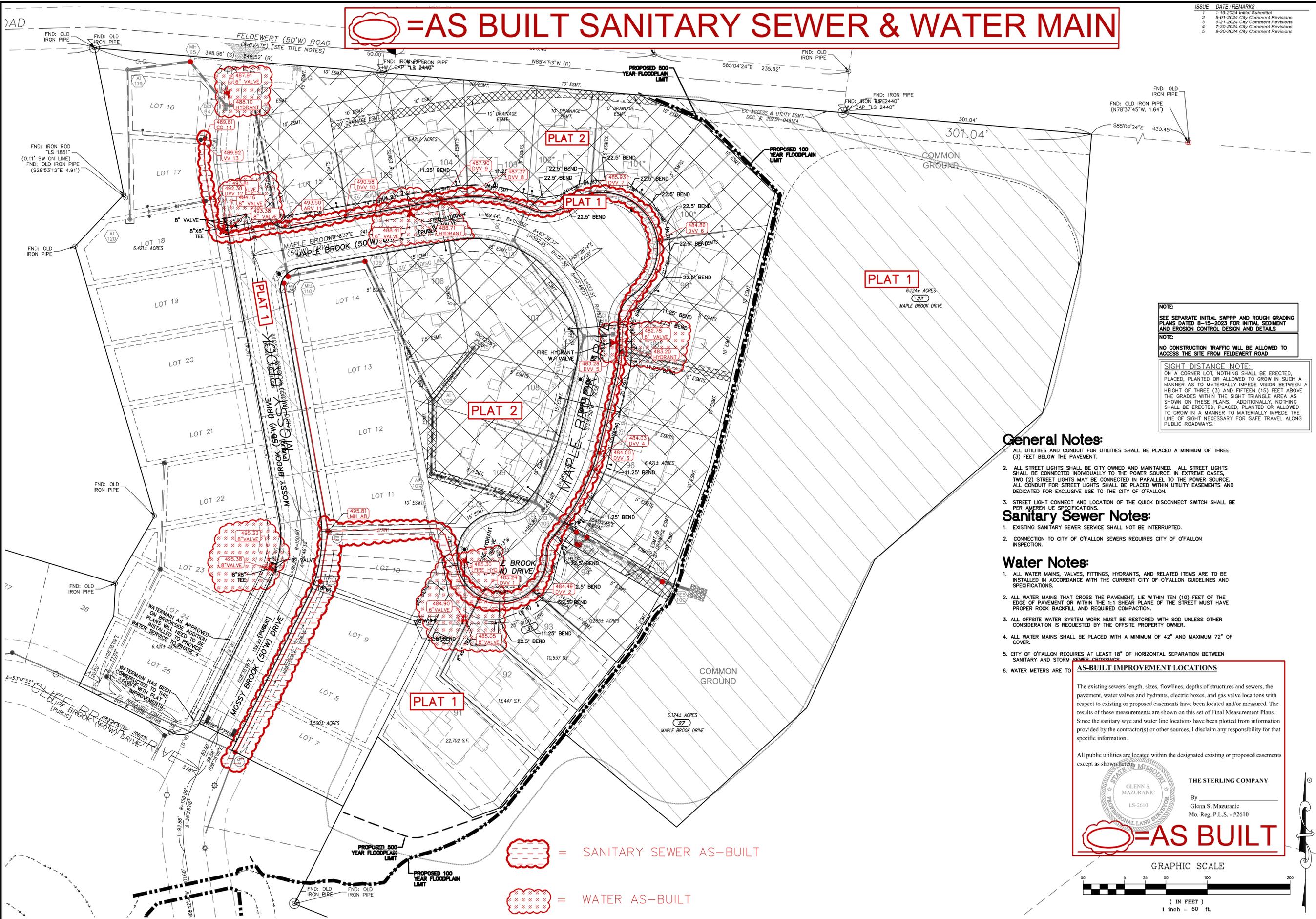
THE STERLING CO.
ENGINEERS & SURVEYORS
 5055 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph. 314-487-0440 Fax 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph. (636) 265-2710
 Fax (636) 695-3195
 www.lombardohomesstlouis.com

SITE PLAN
 P+Z No. 23-010457
 City No. 24-000568
 Date: 8/30/2024
 Job No. 22-09-284
 Page No.

4.1
 As-Built-IMP



AS BUILT SANITARY SEWER & WATER MAIN

ISSUE	DATE / REMARKS
1	1-19-2024 Initial Submittal
2	8-01-2024 City Comment Revisions
3	6-21-2024 City Comment Revisions
4	7-30-2024 City Comment Revisions
5	8-30-2024 City Comment Revisions

NOTE:
SEE SEPARATE INITIAL SWPPP AND ROUGH GRADING PLANS DATED 8-15-2023 FOR INITIAL SEDIMENT AND EROSION CONTROL DESIGN AND DETAILS

NOTE:
NO CONSTRUCTION TRAFFIC WILL BE ALLOWED TO ACCESS THE SITE FROM FELDEWERT ROAD

SIGHT DISTANCE NOTE:
ON A CORNER LOT, NOTHING SHALL BE ERRECTED, PLACED, PLANTED OR ALLOWED TO GROW IN SUCH A MANNER AS TO MATERIALLY IMPEDE VISION BETWEEN A HEIGHT OF THREE (3) AND FIFTEEN (15) FEET ABOVE THE GRADES WITHIN THE SIGHT TRIANGLE AREA AS SHOWN ON THESE PLANS. ADDITIONALLY, NOTHING SHALL BE ERRECTED, PLACED, PLANTED OR ALLOWED TO GROW IN A MANNER TO MATERIALLY IMPEDE THE LINE OF SIGHT NECESSARY FOR SAFE TRAVEL ALONG PUBLIC ROADWAYS.

General Notes:

1. ALL UTILITIES AND CONDUIT FOR UTILITIES SHALL BE PLACED A MINIMUM OF THREE (3) FEET BELOW THE PAVEMENT.
2. ALL STREET LIGHTS SHALL BE CITY OWNED AND MAINTAINED. ALL STREET LIGHTS SHALL BE CONNECTED INDIVIDUALLY TO THE POWER SOURCES. IN EXTREME CASES, TWO (2) STREET LIGHTS MAY BE CONNECTED IN PARALLEL TO THE POWER SOURCE. ALL CONDUIT FOR STREET LIGHTS SHALL BE PLACED WITHIN UTILITY EASEMENTS AND DEDICATED FOR EXCLUSIVE USE TO THE CITY OF O'FALLON.
3. STREET LIGHT CONNECT AND LOCATION OF THE QUICK DISCONNECT SWITCH SHALL BE PER APPLICABLE SPECIFICATIONS.

Sanitary Sewer Notes:

1. EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
2. CONNECTION TO CITY OF O'FALLON SEWERS REQUIRES CITY OF O'FALLON INSPECTION.

Water Notes:

1. ALL WATER MAINS, VALVES, FITTINGS, HYDRANTS, AND RELATED ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY OF O'FALLON GUIDELINES AND SPECIFICATIONS.
2. ALL WATER MAINS THAT CROSS THE PAVEMENT, LIE WITHIN TEN (10) FEET OF THE EDGE OF PAVEMENT OR WITHIN THE 1:1 SHEAR PLANE OF THE STREET MUST HAVE PROPER ROCK BACKFILL AND REQUIRED COMPACTION.
3. ALL OFFSITE WATER SYSTEM WORK MUST BE RESTORED WITH SOD UNLESS OTHER CONSIDERATION IS REQUESTED BY THE OFFSITE PROPERTY OWNER.
4. ALL WATER MAINS SHALL BE PLACED WITH A MINIMUM OF 42" AND MAXIMUM 72" OF COVER.
5. CITY OF O'FALLON REQUIRES AT LEAST 18" OF HORIZONTAL SEPARATION BETWEEN SANITARY AND STORM SEWER CROSSINGS.
6. WATER METERS ARE TO

AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

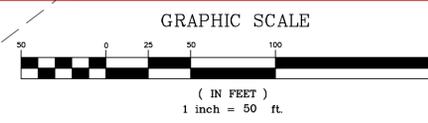
All public utilities are located within the designated existing or proposed easements except as shown herein.

GLENN S. MAZURANIC
LS-2610

THE STERLING COMPANY

By _____
Glenn S. Mazuranic
Mo. Reg. P.L.S. - #2610

AS BUILT



= SANITARY SEWER AS-BUILT

= WATER AS-BUILT

PROJECT TITLE
BROOKSIDE
ADDITION
PHASE 4
 O'FALLON, MISSOURI
CITY - PLATS 1 & 2

THE STERLING CO.
ENGINEERS & SURVEYORS
 5065 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph. 314-487-0440 Fax 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph. (636) 265-2710
 Fax (636) 695-3195
 www.lombardohomesstlouis.com

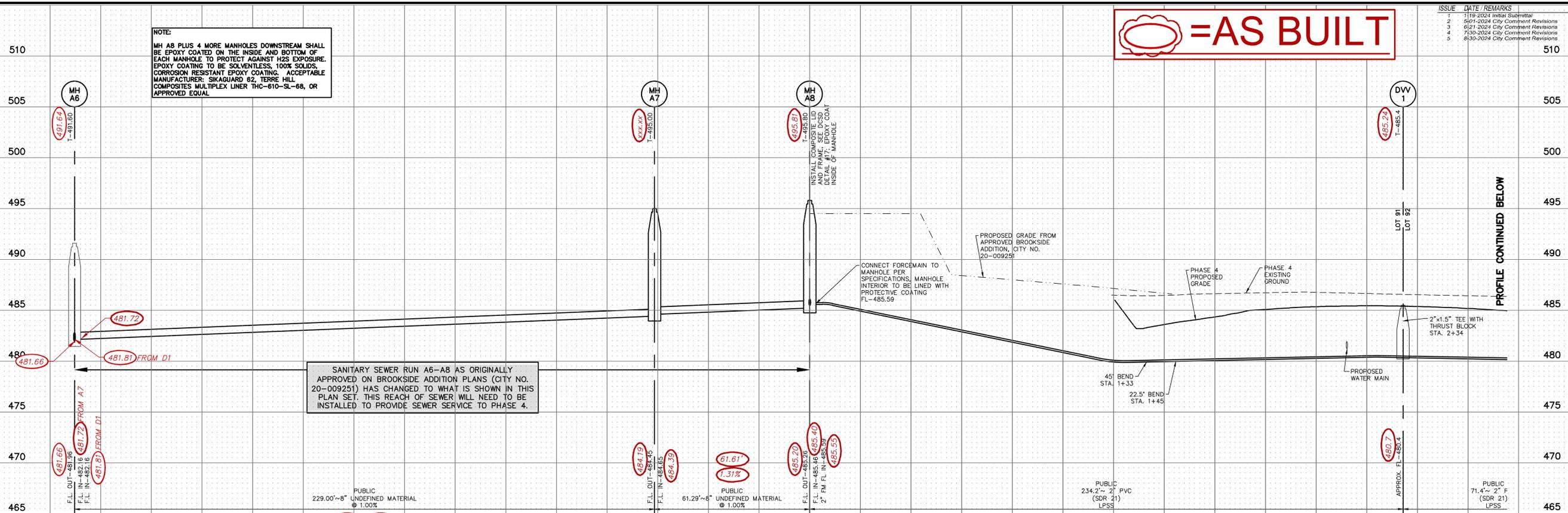
UTILITY PLAN
 P+Z No. 23-010457
 City No. 24-000568
 Date: 8/30/2024
 Job No. 22-09-284
 Page No.

5.1
 As-Built-IMP

NOTE:
 MH A8 PLUS 4 MORE MANHOLES DOWNSTREAM SHALL BE EPOXY COATED ON THE INSIDE AND BOTTOM OF EACH MANHOLE TO PROTECT AGAINST H2S EXPOSURE. EPOXY COATING TO BE SOLVENTLESS, 100% SOLIDS, CORROSION RESISTANT EPOXY COATING. ACCEPTABLE MANUFACTURER: SIKAGUARD 62, TERRE HILL COMPOSITES MULTIPLEX LINER THC-610-S-66, OR APPROVED EQUAL.

AS BUILT

ISSUE	DATE	REMARKS
1	1/19/2024	Initial Submittal
2	6/19/2024	City Comment Revisions
3	6/21/2024	City Comment Revisions
4	7/30/2024	City Comment Revisions
5	8/30/2024	City Comment Revisions



SANITARY SEWER RUN A6-A8 AS ORIGINALLY APPROVED ON BROOKSIDE ADDITION PLANS (CITY NO. 20-009251) HAS CHANGED TO WHAT IS SHOWN IN THIS PLAN SET. THIS REACH OF SEWER WILL NEED TO BE INSTALLED TO PROVIDE SEWER SERVICE TO PHASE 4.

FORCE MAIN TEST PRESSURE = 160 PSI

BACKFILL NOTE:
 ALL SANITARY FORCE MAINS AND/OR FORCE MAIN LATERALS THAT CROSS THE PAVEMENT, LIE WITHIN TEN (10) FEET OF THE EDGE OF PAVEMENT OR WITHIN THE 1:1 SHEAR PLANE OF THE STREET MUST HAVE PROPER ROCK BACKFILL AND REQUIRED COMPACTION.

SANITARY SEWER NOTES:
 1. EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
 2. MODIFY INVERTS TO DRAIN PROPERLY.
 3. B.F. DENOTES BASEMENT FLOOR ELEVATION.
 T.S. DENOTES LATERAL TAKE ELEVATION.
 4. PROPOSED GRADE SHOWN ON SANITARY PROFILES IS BASED UPON ROUGH GRADING; FINAL GRADING DONE WITH CONSTRUCTION OF THE RESIDENCES AT THE DEVELOPMENT WILL MATCH PROPOSED MANHOLE TOP ELEVATIONS.
 5. ALL SANITARY SEWER LATERALS SHALL BE 4 INCH PVC (MIN) WITH A MINIMUM SLOPE OF TWO (2) PERCENT.

AS-BUILT IMPROVEMENT LOCATIONS

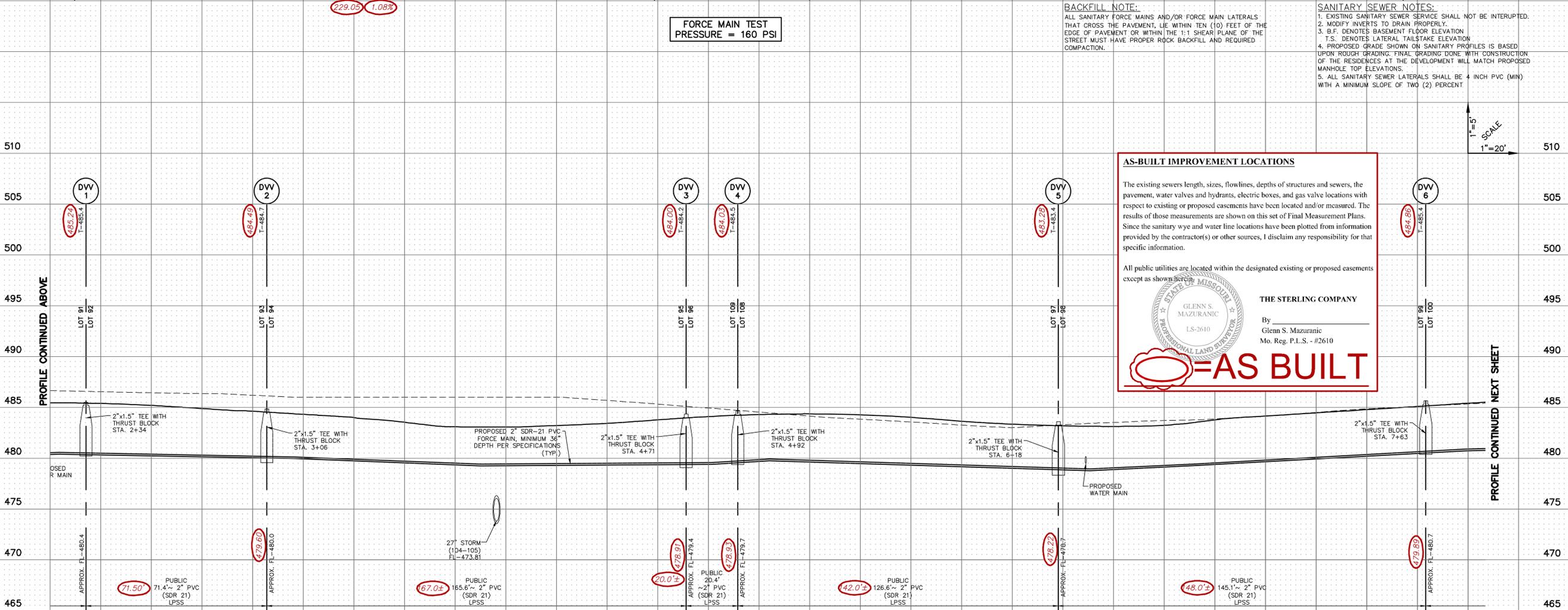
The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

All public utilities are located within the designated existing or proposed easements except as shown here:



THE STERLING COMPANY
 By
 Glenn S. Mazuranic
 Mo. Reg. P.L.S. - #2610

AS BUILT



PROJECT TITLE
BROOKSIDE ADDITION PHASE 4
 OFFALON, MISSOURI
CITY - PLATS 1 & 2

THE **STERLING** CO.
 ENGINEERS & SURVEYORS
 5055 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph: 314-487-0440 Fax: 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

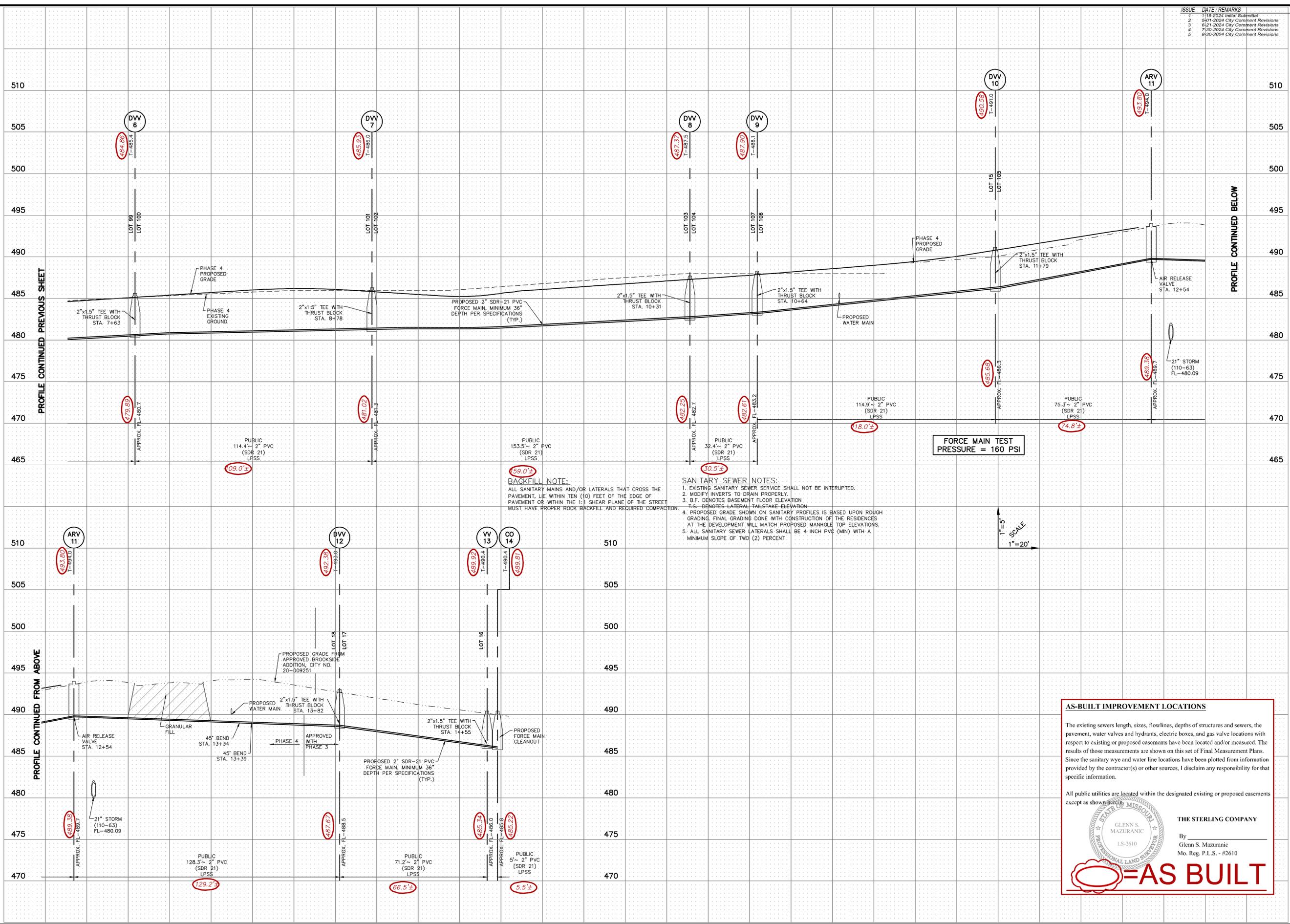
Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph: (636) 265-2710
 Fax: (636) 695-3195
 www.lombardohomesstlouis.com

P+Z No. 23-010457
 City No. 24-000568
 Date: 8/30/2024
 Job No. 22-09-284

Page No. **7.1**
 As-Built - IMP

ISSUE	DATE	REMARKS
1	1/19/2024	Initial Submittal
2	6/01/2024	City Comment Revisions
3	6/21/2024	City Comment Revisions
4	7/30/2024	City Comment Revisions
5	8/30/2024	City Comment Revisions



BACKFILL NOTE:
 ALL SANITARY MAINS AND/OR LATERALS THAT CROSS THE PAVEMENT, LIE WITHIN TEN (10) FEET OF THE EDGE OF PAVEMENT OR WITHIN THE 1:1 SHEAR PLANE OF THE STREET MUST HAVE PROPER ROCK BACKFILL AND REQUIRED COMPACTION.

SANITARY SEWER NOTES:
 1. EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
 2. MODIFY INVERTS TO DRAIN PROPERLY.
 3. B.F. DENOTES BASEMENT FLOOR ELEVATION
 T.S. DENOTES LATERAL TAILSTAKE ELEVATION
 4. PROPOSED GRADE SHOWN ON SANITARY PROFILES IS BASED UPON ROUGH GRADING. FINAL GRADING DONE WITH CONSTRUCTION OF THE RESIDENCES AT THE DEVELOPMENT WILL MATCH PROPOSED MANHOLE TOP ELEVATIONS.
 5. ALL SANITARY SEWER LATERALS SHALL BE 4 INCH PVC (MIN) WITH A MINIMUM SLOPE OF TWO (2) PERCENT.

FORCE MAIN TEST PRESSURE = 160 PSI

1" = 5'
 1" = 20'

AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

All public utilities are located within the designated existing or proposed easements except as shown herein.

THE STERLING COMPANY
 By: Glenn S. Mazurani
 Mo. Reg. P.L.S. - #2610

AS BUILT

PROJECT TITLE
BROOKSIDE
ADDITION
PHASE 4
 OFFALLOM, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
 5055 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph: 314-487-0440 Fax: 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

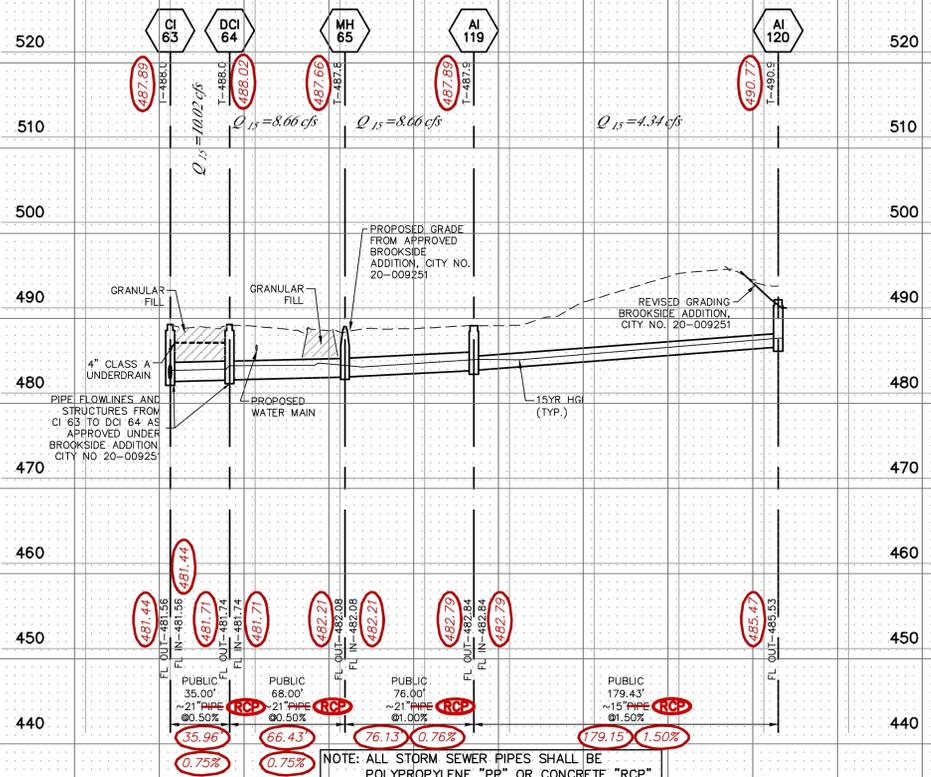
Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph: (636) 265-2710
 Fax: (636) 695-3195
 www.lombardohomesstlouis.com

P+Z No. 23-010457
City No. 24-000568
Date: 8/30/2024
Job No. 22-09-284

Page No.
7.2
 As-Built - IMP

ISSUE	DATE	REMARKS
1	1-19-2024	Initial Submittal
2	5-01-2024	City Comment Revisions
3	6-21-2024	City Comment Revisions
4	7-30-2024	City Comment Revisions
5	8-30-2024	City Comment Revisions



AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

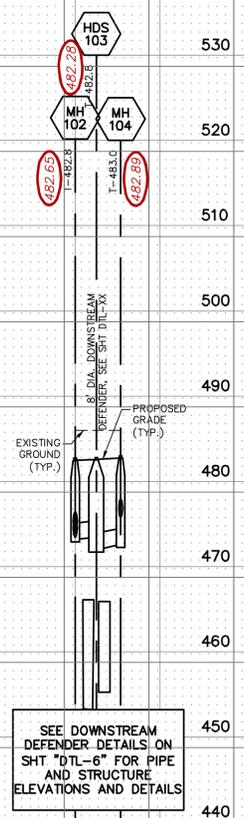
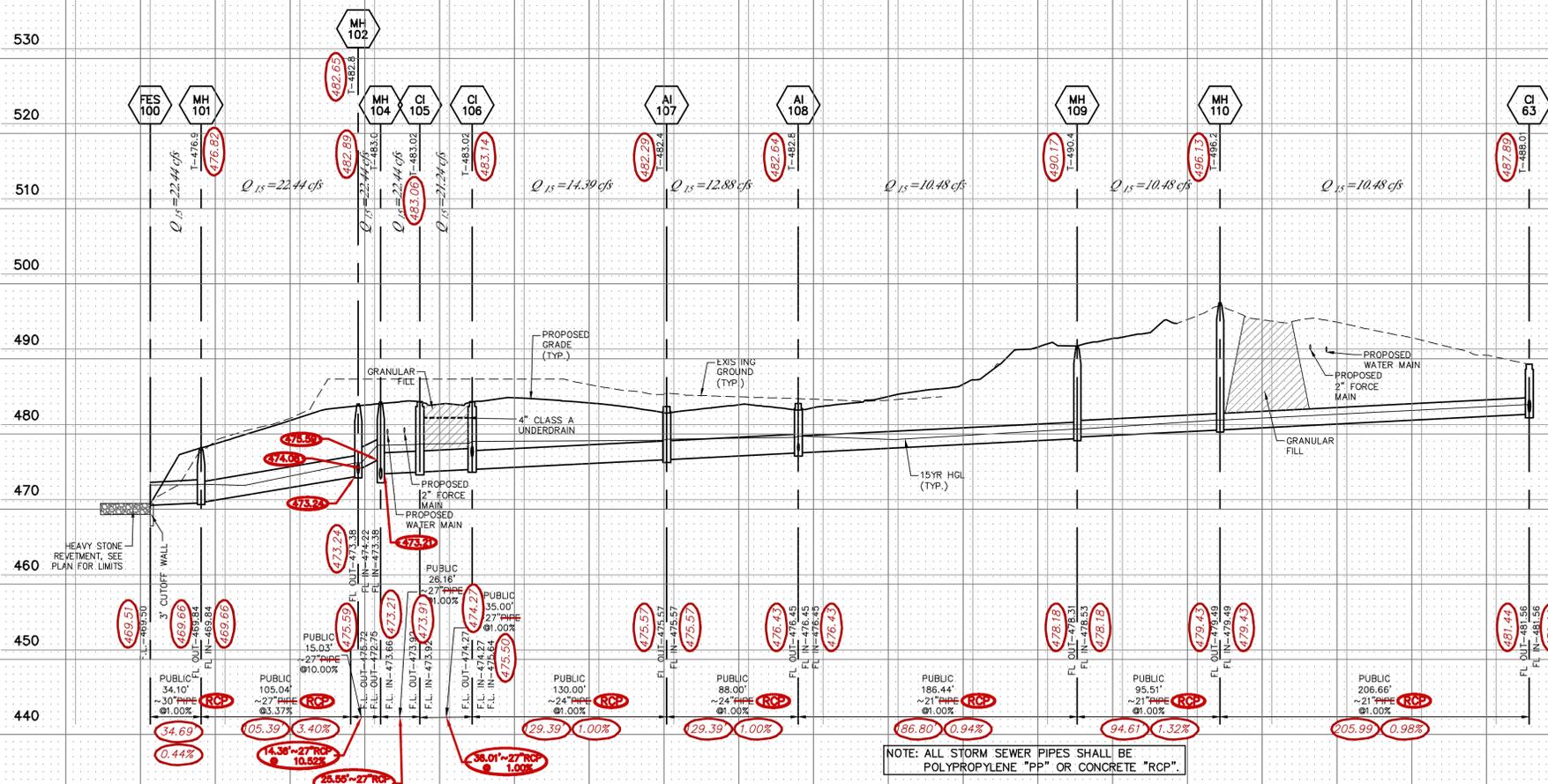
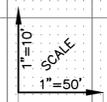
All public utilities are located within the designated existing or proposed easements except as shown herein.

THE STERLING COMPANY
 By: Glenn S. Mazuranc
 Mo. Reg. P.L.S. - #2610

AS BUILT

BACKFILL NOTE:
 ALL STORM MAINS THAT CROSS THE PAVEMENT, LIE WITHIN TEN (10) FEET OF THE EDGE OF PAVEMENT OR WITHIN THE 1:1 SHEAR PLANE OF THE PAVEMENT MUST HAVE PROPER ROCK BACKFILL AND REQUIRED COMPACTION.

NOTE: COMPACTED GRANULAR TRENCH FILL IS REQUIRED BETWEEN ALL LOCATIONS WHERE THE SANITARY SEWER OR WATER MAINS CROSS OVER OR UNDER THE STORM SEWER PIPES.



PROJECT TITLE
BROOKSIDE ADDITION PHASE 4
 OFFALON, MISSOURI
CITY - PLATS 1 & 2

THE STERLING CO.
 ENGINEERS & SURVEYORS
 5065 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph: 314-487-0440 Fax: 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

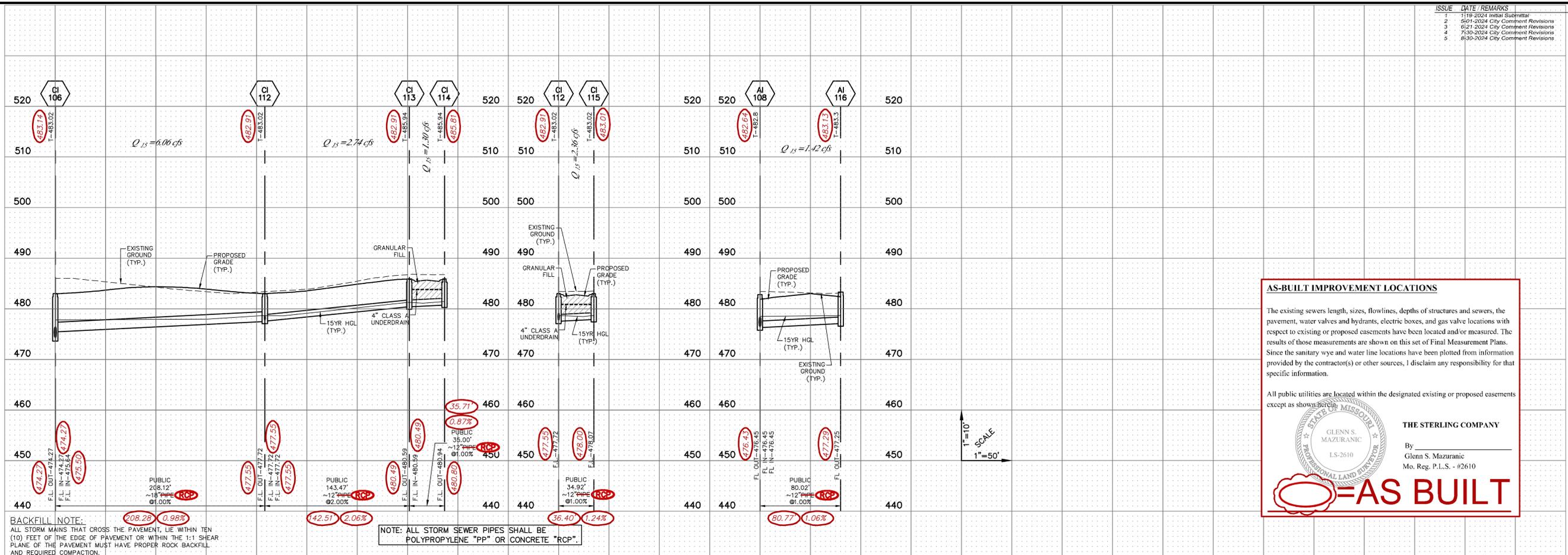
Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph: (636) 265-2710
 Fax: (636) 695-3195
 www.lombardohomesstlouis.com

P+Z No. 23-010457
 City No. 24-000568
 Date: 8/30/2024
 Job No. 22-09-284
 Page No.

8.1
 As-Built - IMP

ISSUE	DATE	REMARKS
1	1/19/2024	Initial Submittal
2	6/19/2024	City Comment Revisions
3	6/21/2024	City Comment Revisions
4	7/30/2024	City Comment Revisions
5	8/30/2024	City Comment Revisions



AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

All public utilities are located within the designated existing or proposed easements except as shown herein.

THE STERLING COMPANY
By: Glenn S. Mazuranc
Mo. Reg. P.L.S. #2610

AS BUILT

BACKFILL NOTE:
ALL STORM MAINS THAT CROSS THE PAVEMENT, LIE WITHIN TEN (10) FEET OF THE EDGE OF PAVEMENT OR WITHIN THE 1:1 SHEAR PLANE OF THE PAVEMENT MUST HAVE PROPER ROCK BACKFILL AND REQUIRED COMPACTION.

NOTE: ALL STORM SEWER PIPES SHALL BE POLYPROPYLENE "PP" OR CONCRETE "RCP".

NOTE: COMPACTED GRANULAR TRENCH FILL IS REQUIRED BETWEEN ALL LOCATIONS WHERE THE SANITARY SEWER OR WATER MAINS CROSS OVER OR UNDER THE STORM SEWER PIPES.

15 YEAR - 20 MINUTE																				
LineNo.	LineID	LineSize	FlowRate	InvertDn	InvertUp	LineLength	LineSlope	VelAve	Grnd/RimElev Dn	Grnd/RimElev Up	HGLDn	HGLUp	Rim-Hw	CriticalDepth	EGLDn	EGLUp	EnergyLoss	CapacityFull	In-value	Pipe
		(in)	(cfs)	(ft)	(ft)	(ft)	(%)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)		
1	FES 100-MH 101	30	22.44	469.50	469.84	34.00	1.00	4.73	471.83	476.90	472.00	472.05	4.76	1.61	472.33	472.42	0.096	41.01	0.013	
2	MH 101-MH 102	27	22.44	469.84	473.38	105.04	3.37	6.40	476.90	482.80	472.14	475.04	7.76	1.66	472.64	475.83	0.622	56.85	0.013	
3	MH 102-MH 104	27	22.44	474.22	475.72	15.03	9.98	12.19	482.80	483.00	475.04	477.38	5.62	1.66	475.83	478.17	0.000	97.82	0.013	
4	MH 104-CI 105	27	22.44	473.66	473.92	26.16	0.99	5.64	483.00	482.10	477.38	477.51	4.51	1.66	477.87	478.01	0.137	30.87	0.013	
5	CI 105-CI 106	27	21.24	473.92	474.27	35.00	1.00	5.34	482.10	482.10	477.59	477.75	3.93	1.61	478.03	478.20	0.165	30.96	0.013	
6	CI 106-AI 107	24	14.39	474.27	475.57	130.00	1.00	4.58	482.10	481.48	478.17	478.70	2.46	1.37	478.50	479.03	0.526	22.62	0.013	
7	AI 107-AI 108	24	12.88	475.57	476.45	88.00	1.00	4.10	481.48	481.88	479.02	479.31	2.40	1.29	479.28	479.57	0.285	22.62	0.013	
8	AI 108-MH 109	21	10.48	476.45	478.31	186.44	1.00	4.36	481.88	490.40	479.48	480.29	9.82	1.20	479.77	480.59	0.816	15.82	0.013	
9	MH 109-MH 110	21	10.48	478.53	479.49	95.51	1.01	4.70	490.40	496.20	480.58	480.90	14.90	1.20	480.87	481.30	0.424	15.88	0.013	
10	MH 110-CI 63	21	10.48	479.49	481.56	206.66	1.00	5.15	496.20	487.09	481.30	482.77	4.33	1.20	481.59	483.31	1.126	15.85	0.013	
11	CI 63-DCI 64	21	10.02	481.56	481.74	35.00	0.51	5.33	487.09	487.09	482.84	483.02	3.68	1.18	483.28	483.46	0.180	11.36	0.013	
12	DCI 64-MH 65	21	8.66	481.74	482.08	68.00	0.50	3.83	487.09	487.80	483.41	483.56	4.01	1.09	483.62	483.80	0.185	11.20	0.013	
13	MH 65-AI 119	21	8.66	482.08	482.84	76.00	1.00	4.55	487.80	487.00	483.79	483.93	3.07	1.09	484.26	484.40	0.000	15.84	0.013	
14	AI 119-AI 120	15	4.34	482.84	485.53	179.43	1.50	4.37	487.00	490.00	483.93	486.37	3.63	0.84	484.31	486.75	0.000	7.91	0.013	
15	CI 106-CI 112	18	6.06	475.64	477.72	208.12	1.00	3.86	482.10	482.10	478.17	478.84	2.99	0.95	478.36	479.12	0.768	10.50	0.013	
16	CI 112-CI 113	12	2.74	477.72	480.59	143.47	2.00	4.05	482.10	485.02	479.11	481.30	3.72	0.71	479.30	481.63	1.011	5.04	0.013	
17	CI 113-CI 114	12	1.30	480.59	480.94	35.00	1.00	2.83	485.02	485.02	481.30	481.42	3.60	0.48	481.49	481.61	0.000	3.56	0.013	
18	CI 112-CI 115	12	2.36	477.72	478.07	34.92	1.00	3.01	482.10	482.10	479.11	479.26	2.70	0.66	479.25	479.40	0.153	3.57	0.013	
19	AI 108-AI 116	12	1.42	476.45	477.25	80.02	1.00	1.81	481.88	482.28	479.48	479.60	2.63	0.50	479.53	479.65	0.127	3.56	0.013	

100 YEAR - 20 MINUTE FLOODED																				
LineNo.	LineID	LineSize	FlowRate	InvertDn	InvertUp	LineLength	LineSlope	VelAve	Grnd/RimElev Dn	Grnd/RimElev Up	HGLDn	HGLUp	Rim-Hw	CriticalDepth	EGLDn	EGLUp	EnergyLoss	CapacityFull	In-value	Pipe
		(in)	(cfs)	(ft)	(ft)	(ft)	(%)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)		
1	FES 100-MH 101	30	30.30	469.50	469.84	34.00	1.00	6.17	471.83	476.90	474.70	474.89	1.87	1.87	475.29	475.48	0.186	41.01	0.013	
2	MH 101-MH 102	27	30.30	469.84	473.38	105.04	3.37	7.62	476.90	482.80	475.03	476.04	6.62	1.90	475.94	476.94	1.006	56.85	0.013	
3	MH 102-MH 104	27	30.30	474.22	475.72	15.03	9.98	8.35	482.80	483.00	476.18	477.62	5.38	1.90	477.28	478.73	0.000	97.82	0.013	
4	MH 104-CI 105	27	30.30	473.66	473.92	26.16	0.99	7.62	483.00	482.10	477.62	477.87	4.09	1.90	478.53	478.78	0.251	30.87	0.013	
5	CI 105-CI 106	27	28.68	473.92	474.27	35.00	1.00	7.21	482.10	482.10	478.01	478.31	3.02	1.86	478.82	479.12	0.300	30.96	0.013	
6	CI 106-AI 107	24	19.43	474.27	475.57	130.00	1.00	6.19	482.10	481.48	479.08	480.04	0.86	1.58	479.67	480.63	0.960	22.62	0.013	
7	AI 107-AI 108	24	17.39	475.57	476.45	88.00	1.00	5.54	481.48	481.88	480.62	481.14	0.43	1.50	481.10	481.62	0.520	22.62	0.013	
8	AI 108-MH 109	21	14.15	476.45	478.31	186.44	1.00	5.88	481.88	490.40	481.45	482.94	6.94	1.40	481.99	483.48	1.488	15.82	0.013	
9	MH 109-MH 110	21	14.15	478.53	479.49	95.51	1.01	5.88	490.40	496.20	483.46	484.22	11.44	1.40	484.00	484.76	0.762	15.88	0.013	
10	MH 110-CI 63	21	14.15	479.49	481.56	206.66	1.00	5.88	496.20	487.09	484.76	486.41	0.16	1.40	485.30	486.95	1.649	15.85	0.013	
11	CI 63-DCI 64	21	13.53	481.56	481.74	35.00	0.51	5.63	487.09	487.09	486.93	487.19	-0.54	1.37	487.43	487.68	0.255	11.36	0.013	
12	DCI 64-MH 65	21	11.69	481.74	482.08	68.00	0.50	4.86	487.09	487.80	487.63	488.00	-0.54	1.27	487.99	488.36	0.370	11.20	0.013	
13	MH 65-AI 119	21	11.69	482.08	482.84	76.00	1.00	4.86	487.80	487.00	488.34	488.76	-2.12	1.27	488.71	489.12	0.414	15.84	0.013	
14	AI 119-AI 120	15	5.86	482.84	485.53	179.43	1.50	4.78	487.00	490.00	489.12	490.60	-0.96	0.98	489.48	490.96	1.478	7.91	0.013	
15	CI 106-CI 112	18	8.18	475.64	477.72	208.12	1.00	4.63	482.10	482.10	479.08	480.34	1.44	1.11	479.41	480.68	1.263	10.50	0.013	
16	CI 112-CI 113	12	3.69	477.72	480.59	143.47	2.00	4.70	482.10	485.02	480.66	482.20	2.52	0.82	481.00	482.54	1.541	5.04	0.013	
17	CI 113-CI 114	12	1.75	480.59	480.94	35.00	1.00	2.23	485.02	485.02	482.50	482.58	2.36	0.56	482.58	482.66	0.085	3.56	0.013	
18	CI 112-CI 115	12	3.19	477.72	478.07	34.92	1.00	4.06	482.10	482.10	480.66	480.94	0.90	0.76	480.92	481.20	0.280	3.57	0.013	
19	AI 108-AI 116	12	1.92	476.45	477.25	80.02	1.00	2.44	481.88	482.28	481.45	481.68	0.50	0.59	481.54	481.78	0.233	3.56	0.013	

PROJECT TITLE
BROOKSIDE
ADDITION
PHASE 4
OFFALON, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
5065 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-8944
www.sterling-eng-survey.com
Corporate Certificate of Authority #001348

Date: 8/30/2024
RODNEY ARNOLD
LICENSE # PE-2002016612
Professional Engineer

Lombardo Homes of St. Louis, LLC
4 Research Park Drive, Suite 130
St. Charles, Missouri 63304
Ph. (636) 265-2710
Fax (636) 695-3195
www.lombardohomesstlouis.com

P+Z No. 23-010457
City No. 24-000568
Date: 8/30/2024
Job No. 22-09-284
Page No.

8.2
As-Built - IMP

CITY - PLATS 1 & 2

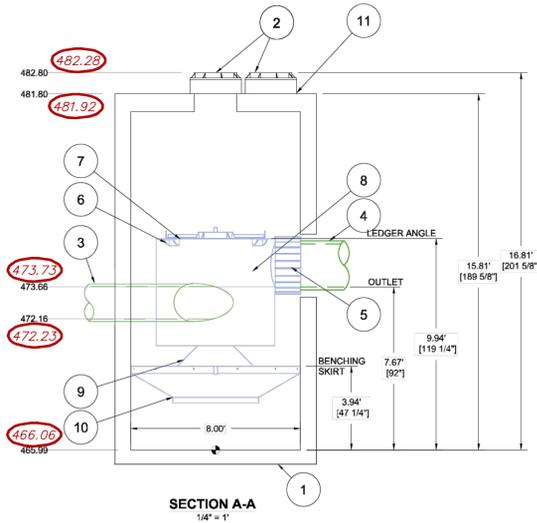
STORM PROFILES AND HYDRAULIC CALCULATIONS

PARTS LIST: 8' DOWNSTREAM DEFENDER

ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	96	CONCRETE	I.D. PRECAST MANHOLE
2	24	-	FRAME & COVER
3	18	RCP	INLET PIPE (BY OTHERS)
4	18	RCP	OUTLET PIPE (BY OTHERS)
5	24 X 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)

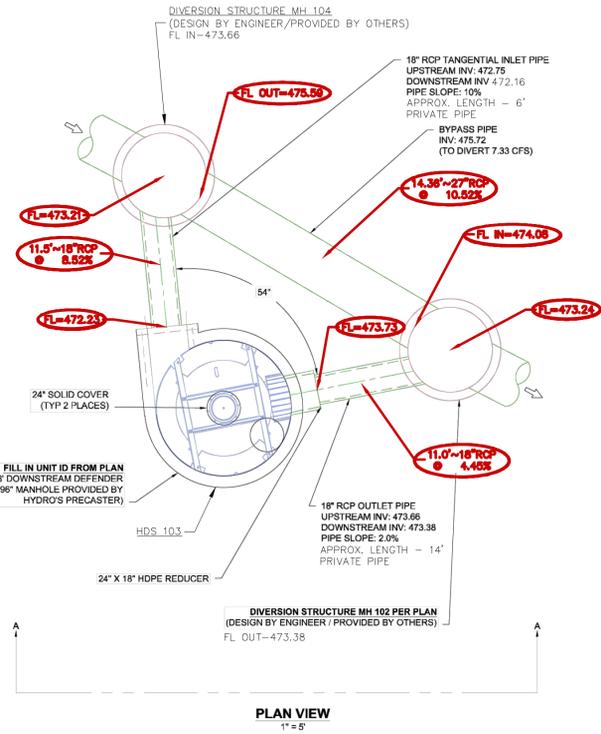
NOTES:

- ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIALS
- CONTRACTOR IS RESPONSIBLE FOR MATERIALS AND LABOR TO BRING CASTINGS TO FINISHED GRADE
- ACTUAL DEPTH OF STRUCTURE MAY VARY DEPENDING ON AVAILABLE PRECAST FORMS. CONTRACTOR TO MEASURE HEIGHT OF STRUCTURE TO ENSURE THAT DEPTH OF EXCAVATION IS CORRECT.
- UNIT SHALL CONFORM TO HS20-44 LOAD RATINGS.
- ALL CONNECTIONS TO DOWNSTREAM DEFENDER TO BE A-LOCK CONNECTIONS.



NOTE:

SHOP DRAWINGS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF O'FALLON FOR HDS 103



BROOKSIDE ADDITION - PHASE 4
 O'FALLON, MO
 DATE: 01/02/24 DRAWN: CJM
 PROJECT #: S389680 CHECKED: HILAJ

Hydro International
 ENGINEERING SOLUTIONS
 2071 MARSH WALKER BLVD
 HILLIARD, OH 43026
 WWW.HYDROINT.COM

ADS
 4640 TRULMAN BLVD
 HILLIARD, OH 43026

AS NOTED

2 SHEET OF 2

ISSUE	DATE / REMARKS
1	1-19-2024 Initial Submittal
2	5-01-2024 City Comment Revisions
3	6-21-2024 City Comment Revisions
4	7-30-2024 City Comment Revisions
5	8-30-2024 City Comment Revisions

PROJECT TITLE
BROOKSIDE ADDITION
PHASE 4
 O'FALLON, MISSOURI
CITY - PLATS 1 & 2

THE STERLING CO.
ENGINEERS & SURVEYORS
 5055 New Baumgartner Road
 St. Louis, Missouri 63129
 Ph. 314-487-0440 Fax 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

AS-BUILT IMPROVEMENT LOCATIONS

The existing sewers length, sizes, flowlines, depths of structures and sewers, the pavement, water valves and hydrants, electric boxes, and gas valve locations with respect to existing or proposed easements have been located and/or measured. The results of those measurements are shown on this set of Final Measurement Plans. Since the sanitary wye and water line locations have been plotted from information provided by the contractor(s) or other sources, I disclaim any responsibility for that specific information.

All public utilities are located within the designated existing or proposed easements except as shown herein.

THE STERLING COMPANY
 By: _____
 Glenn S. Mazuranic
 Mo. Reg. P.L.S. - #2610

Date: 8/30/2024
 RODNEY ARNOLD
 LICENSE # PE-2002016612
 Professional Engineer

AS BUILT

C:\Cad\Users\Robey-Engner's Desktop

www.lombardohomesstlouis.com

Lombardo Homes of St. Louis, LLC
 4 Research Park Drive, Suite 130
 St. Charles, Missouri 63304
 Ph. (636) 265-2710
 Fax (636) 695-3195
 www.lombardohomesstlouis.com

DOWNSTREAM DEFENDER DETAILS

P+Z No. 23-010457
 City No. 24-000568
 Date: 8/30/2024
 Job No. 22-09-284

Page No.
DTL-6
 As-Built-IMP