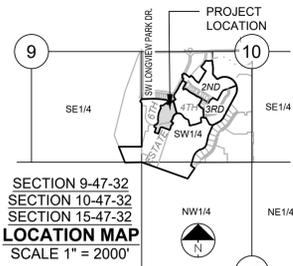


LEGEND:

- A/E - ACCESS EASEMENT
 - BC - BACK OF CURB
 - B/B - BACK TO BACK
 - BM - BENCHMARK
 - BL or B.L. - BUILDING LINE
 - CO - CLEANOUT
 - TJB - TELEPHONE JUNCTION BOX
 - C&G - CURB AND GUTTER
 - D/E - DRAINAGE EASEMENT
 - E/E - ELECTRICAL EASEMENT
 - EL - ELEVATION
 - FL - FLOW LINE
 - G/E - GAS LINE EASEMENT
 - HDPE - HIGH-DENSITY POLYETHYLENE
 - L/E - LANDSCAPE EASEMENT
 - MSFE - MINIMUM SERVICEABLE FLOOR ELEVATION
 - PVC - POLYVINYL CHLORIDE
 - P/L - PROPERTY LINE
 - PUB/E - PUBLIC EASEMENT
 - RCP - REINFORCED CONCRETE PIPE
 - ROW or RW - RIGHT-OF-WAY
 - S/E - SANITARY SEWER EASEMENT
 - SL - SERVICE LINE
 - SW - SIDEWALK
 - TE - TOP ELEVATION
 - U/E - UTILITY EASEMENT
 - WSE - WATER SURFACE ELEVATION
 - W/E - WATERLINE EASEMENT
-
- ASPHALT PAVEMENT - EXISTING
 - ASPHALT PAVEMENT - PROPOSED
 - CONCRETE PAVEMENT - EXISTING
 - CONCRETE PAVEMENT - PROPOSED
 - CONCRETE SIDEWALK - EXISTING
 - CONCRETE SIDEWALK - PROPOSED
 - CURB & GUTTER
 - CURB & GUTTER - EXISTING
 - TREELINE
 - EXISTING LOT AND R/W LINES
 - EXISTING PLAT LINES
 - P/L PROPERTY LINES
 - ROW RIGHT-OF-WAY
 - SANITARY SEWER MAIN
 - SANITARY SEWER MAIN - EXIST.
 - STO STORM SEWER
 - STORM SEWER - EXISTING
 - CATV_x CABLE TV - EXISTING
 - FOC_x FIBER OPTIC CABLE - EXISTING
 - T_x TELEPHONE LINE - EXIST.
 - E_x ELECTRIC LINE - EXISTING
 - OHP_x OVERHEAD POWER LINE - EXIST.
 - UG_x UNDERGROUND ELECTRIC - EX.
 - G_x GAS LINE - EXISTING
 - W_x WATERLINE - EXISTING
 - LIGHT - EXISTING
 - EXISTING MANHOLE
 - CLEANOUT
 - EXISTING SANITARY MANHOLE
 - PROPOSED SANITARY MANHOLE
 - EXISTING AREA INLET
 - EXISTING CURB INLET
 - EXISTING GRATE INLET
 - EXISTING JUNCTION BOX
 - EXISTING STORM MANHOLE



UTILITY CONTACTS:

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)
Steve Holloway
600 NE Colbern Road
Lee's Summit, MO 64086
(816) 607-2186

MISSOURI GAS ENERGY (MGE)
Brent Jones
3025 SE Clover Drive
Lee's Summit, MO 64082
(816) 399-9633
brent.jones@spireenergy.com

EVERGY
Ron Dejanette
1300 SE Hamblin Road
Lee's Summit, MO 64081
Office: (816) 347-4316
Cell: (816) 810-5234
ron.dejanette@evergy.com

CITY OF LEES SUMMIT PUBLIC WORKS
220 SE Green Street
Lee's Summit, MO 64063
(816) 969-1800

AT&T
Mark Manion or Marty Loper
500 E. 8th Street, Room 370
Kansas City, MO 64106
(816) 275-2341 or (816) 275-1550

COMCAST CABLE
John Meadows
4700 Little Blue Parkway
Independence, MO 64057
(816) 795-2257

CITY OF LEE'S SUMMIT WATER UTILITIES
Mark Schaufler
1200 SE Hamblin Road
Lee's Summit, MO 64081
(816) 969-1900



STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL

FOR PERGOLA PARK 5TH PLAT

IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

GENERAL NOTES:

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
- ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

STREET NOTES:

- ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
- ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING.
- CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED.
- SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ASSUMED DESIGN SPEED = 25 MPH (COLLECTOR).
- MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.
- MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.
- GRADE INTERSECTIONS TO DRAIN AS SHOWN.
- SSD = STOPPING SIGHT DISTANCE.
- ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC INFRASTRUCTURE.

RECORD DRAWING

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"100-00 100.10", "1-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 5/22/2023
Certified by: BAL
Title: Design Engineer
Firm: Schlager and Associates, P.A.

EARTHWORK:

- It is recommended that a Geotechnical Engineer observe and document all earthwork activities.
- Contours have been shown at 1-foot or 2-foot intervals, as indicated. Grading shall consist of completing the earthwork required to bring the physical ground elevations of the existing site to the finished grade (or sub-grade) elevations provided on the plans as spot grades, contours or others means as indicated on the plans.
- The existing site topography depicted on the plans by contouring has been established by aerial photography and field verified by p.s. observation near 2-20-19. The contour elevations provided may not be exact ground elevations, but rather interpretations of such. Accuracy shall be considered to be such that not more than 10 percent of spot elevation checks shall be in error by more than one-half the contour interval provided, as defined by the National Map Accuracy Standards. Any quantities provided for earthwork volumes are established using this topography contour accuracy, and therefore the inherent accuracy of any earthwork quantity is assumed from the topography accuracy.
- Proposed contours are to approximate finished grade.
- Unless otherwise noted, payment for earthwork shall include backfilling of the curb and gutter, sidewalk and further manipulation of utility trench spoils. The site shall be left in a mowable condition and positive drainage maintained throughout.
- Unless otherwise noted, all earthwork is considered Unclassified. No additional compensation will be provided for rock or shale excavation, unless specifically stated otherwise.
- Prior to earthwork activities, pre-disturbance erosion and sediment control devices shall be in place per the Storm Water Pollution Prevention plan and/or the Erosion and Sediment Control Plan prepared for this site.
- All topsoil shall be stripped from all areas to be graded and stockpiled adjacent to the site at an area specified by the project owner or his appointed representative. Vegetation, trash, trees, brush, tree roots and limbs, rock fragments greater than 6-inches and other deleterious materials shall be removed and properly disposed of offsite or as directed by the owner or his appointed representative.
- Unless otherwise specified in the Geotechnical Report, all fills shall be placed in maximum 6-inch lifts and compacted to 95-percent of maximum density as defined using a standard proctor test (AASHTO T99/ASTM 698).
- Fill materials shall be per Geotechnical Report and shall not include organic matter, debris or topsoil. All fills placed on slopes greater than 6:1 shall be benched.
- The Contractor shall be responsible for redistributing the topsoil over proposed turf and landscaped areas to a minimum depth of 6-inches below final grade.
- All areas shall be graded for positive drainage. Unless noted otherwise the following grades shall apply:
 - Turf Areas - 2.5% Minimum, 4H:1V Maximum
 - Paved Areas - 1.2% Minimum, 5% Maximum
- All disturbed areas shall be fertilized, seeded and mulched immediately after earthwork activities have ceased. Seeding shall be per the Erosion and Sediment Control Plan and/or Landscape Plan. If not specified seeding shall be per APWA Section 2400, latest edition. Unless otherwise noted, seeding shall be subsidiary to the contract price for earthwork and grading activities.
- All disturbed areas in the right-of-way shall be sodded.
- Underdrains are recommended for all paved areas adjacent to irrigated turf and landscaped beds.
- The Contractor shall adhere to the reporting requirements outlined in the Storm Water Pollution Prevention Plan (SWPPP) prepared for this project. Erosion and Sediment control devices shall be properly maintained and kept clean of silt and debris and in good working order. Additional erosion and sediment control measures shall be installed as required.

UTILITIES:

- Existing utilities have been shown to the greatest extent possible based upon information provided to the Engineer. The contractor is responsible for contacting the respective utility companies and field locating utilities prior to construction and identifying any potential conflicts. All conflicts shall immediately be brought to the attention of the Engineer.
- The contractor shall be responsible for coordinating any required utility relocations. Utilities damaged through the negligence of the contractor shall be repaired at the contractor's expense.
- Contractor shall verify flow-lines and structure tops prior to construction, and shall notify Engineer of any discrepancies. Provide shop drawings for all precast and manufactured utility structures for review by the Engineer prior to construction of the structures.
- Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can not be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict.
- Payment for trenching, backfilling, pipe embedment, flowable fill, backfill materials, clean up, seeding, sodding and any other items necessary for the construction of the utility line shall be included in the contract price for the utility installation.
- The Contractor shall be responsible for contacting respective utility companies 48-hours in advance for the inspection of any proposed utility main extension or service line or service connection to any existing main.
- Trench spoils shall be neatly placed onsite adjacent to the trench, and compacted to prevent saturation and excess sediment runoff. Unsuitable materials, excess rock and shale, asphalt, concrete, trees, brush etc. shall be properly disposed of offsite. Materials may be wasted onsite at the direction of the Owner or his appointed representative.
- All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the best information provided to the Project Engineer. The Engineer has the authority to identify and define the physical characteristics to determine the classification. Unit price quantities for rock excavation will be paid at a trench width of the nominal pipe diameter of the installed main plus 18 inches. Contractor is required to dispose of excess rock from their trenches by disposing it in areas as specified by the Project Engineer.

SUMMARY OF QUANTITIES			
	ITEM	QUANTITY	UNITS
1	CLEANING, GRUBBING, AND DISPOSAL	1	L.S.
2	GRADING	1	L.S.
3	SUBGRADE STABILIZATION (PUBLIC STREETS)	6494	S.Y.
4	6" ASPHALT	4770	S.Y.
5	6" CONCRETE	1103	S.Y.
6	DRIVABLE PAVERS	162	SY
7	TYPE CG-2 CURB	2256	L.F.
8	TYPE CG-2 DRY CURB	267	L.F.
9	TYPE CG-1 DRY CURB	342	L.F.
10	TYPE C1 CURB	517	L.F.
11	6" SIDEWALK	2504	L.F.
12	SIDEWALK RAMPS	11	EA.
13	15" HDPE	245	L.F.
14	18" HDPE	179	L.F.
15	24" HDPE	117	L.F.
16	30" HDPE	643	L.F.
17	36" HDPE	135	L.F.
18	36" RCP	243	L.F.
19	4' x 4' GRATE INLET	5	EA.
20	6' x 4' CURB INLET	6	EA.
21	6' x 5' CURB INLET	5	EA.
22	6' x 6' CURB INLET	1	EA.
23	7' x 4' CURB INLET	1	EA.
24	36" RCP END SECTION	1	EA.
25	UNDERDRAIN	35	L.F.
26	EROSION CONTROL	1	L.S.
27	SEEDING/MULCHING	1	L.S.
28	BONDS	1	L.S.

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL LAYOUT
3	MASTER DRAINAGE PLAN - GRADING PLAN
4	MASTER DRAINAGE PLAN - LOT INFO
5	MASTER DRAINAGE PLAN - DRAINAGE MAP
6	MASTER DRAINAGE PLAN - DRAINAGE CALCS
7	MASTER DRAINAGE PLAN - DRAINAGE CALCS
8	PRE CONSTRUCTION EROSION CONTROL PLAN
9	EROSION CONTROL PLAN
10	POST CONSTRUCTION EROSION CONTROL
11	EROSION CONTROL DETAILS
12	PERGOLA PARK DR PLAN & PROFILE
13	SW MARY ST PLAN & PROFILE
14	ALLEY 11 PLAN & PROFILE
15	STREET A PLAN & PROFILE
16	ROUNDBOUT INTERSECTION DETAIL
17	ALLEY 11 INTERSECTION DETAIL
18	STREET A INTERSECTION DETAIL SHEET
19	STORM PLAN
20	STORM PROFILES
21	STORM PROFILES CONT
22	STREET DETAIL SHEET
23	STREET DETAIL SHEET CONT
24	STREET DETAIL SHEET
25	STORM DETAIL SHEET
26	ROUNDBOUT PAVEMENT MARKING
27	PAVEMENT MARKING DETAIL
28	STREET SIGN PLAN
29	STREET SIGN DETAILS



PREPARED BY:



05.23.2023

SCHLAGEL & ASSOCIATES, P.A.

PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI

OWNER/DEVELOPER:

NLV DEVELOPMENT COMPANY LLC
RUSSELL PEARSON
3152 SW GRANDSTAND CIRCLE
LEE'S SUMMIT, MO 64081
p 816-589-4415
f ---
RPEARSON@BOXDEVCO.COM

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.

ELEV. 935.18

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

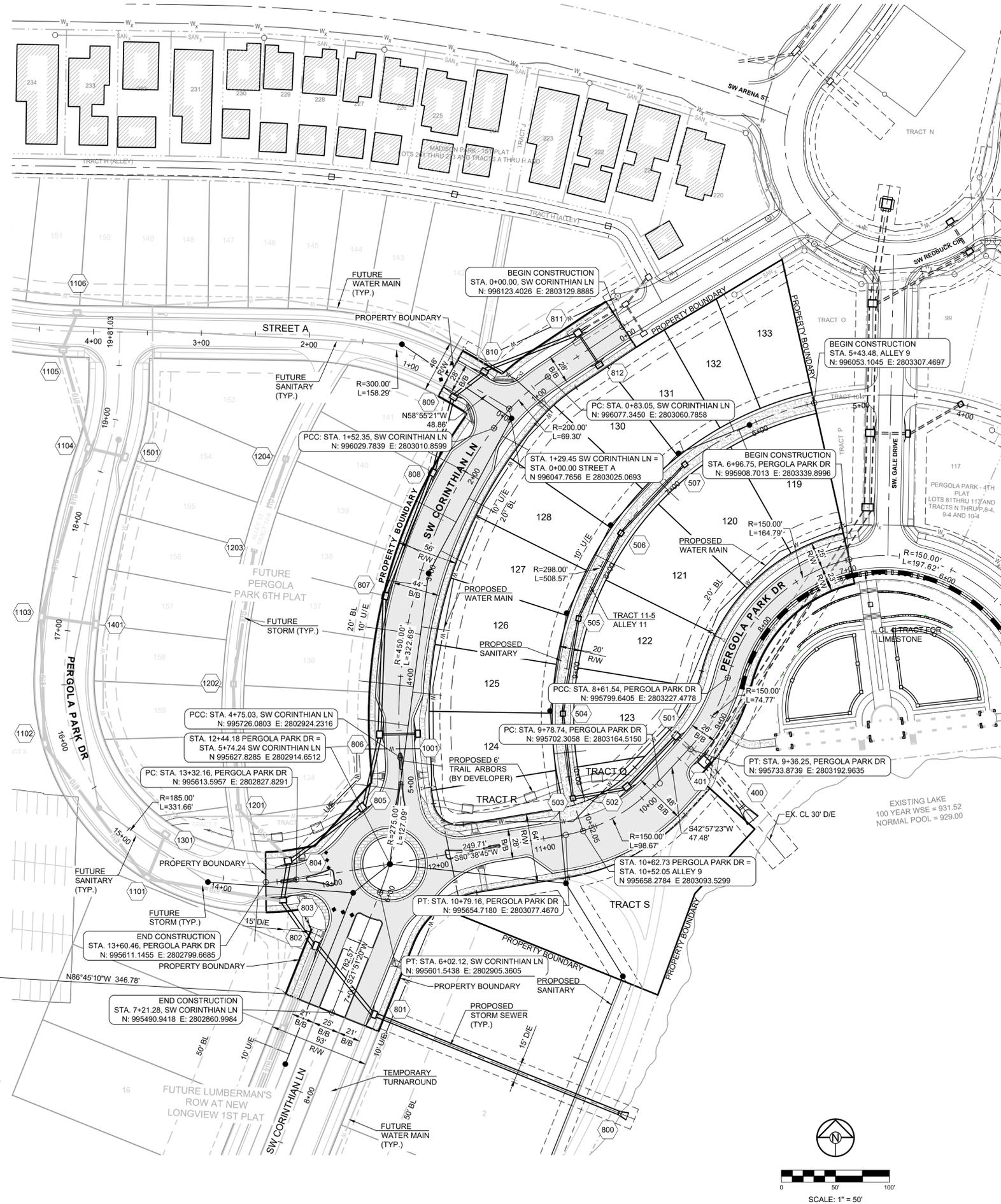
NORTHING: 988993.4148
EASTING: 2803318.5413
ELEV. 1004.09

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
###	###	11-8-2021	20-189

COVER SHEET

SHEET



SW CORNER, SW 1/4
 SEC. 10-47-32
 CORP OF ENGINEERS
 3" ALUMINUM MONUMENT

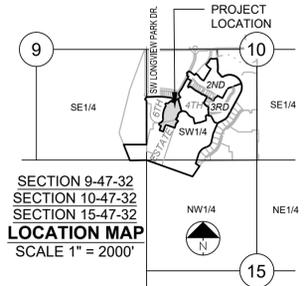
WEST LINE, SW 1/4, SEC. 10-47-32
 N03°14'54"E 770.98'

RECORD DRAWING

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"100.00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 5/22/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlager and Associates, P.A.



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ELEV. 935.18

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NORTHING: 988893.4148
 EASTING: 2803318.5413
 ELEV. 1004.09

SURVEY NOTES

The bases of bearing and coordinates are base on the Missouri Coordinate System of 1983, West Zone (2003 Adjustment) with a Grid Factor of 0.9999020.



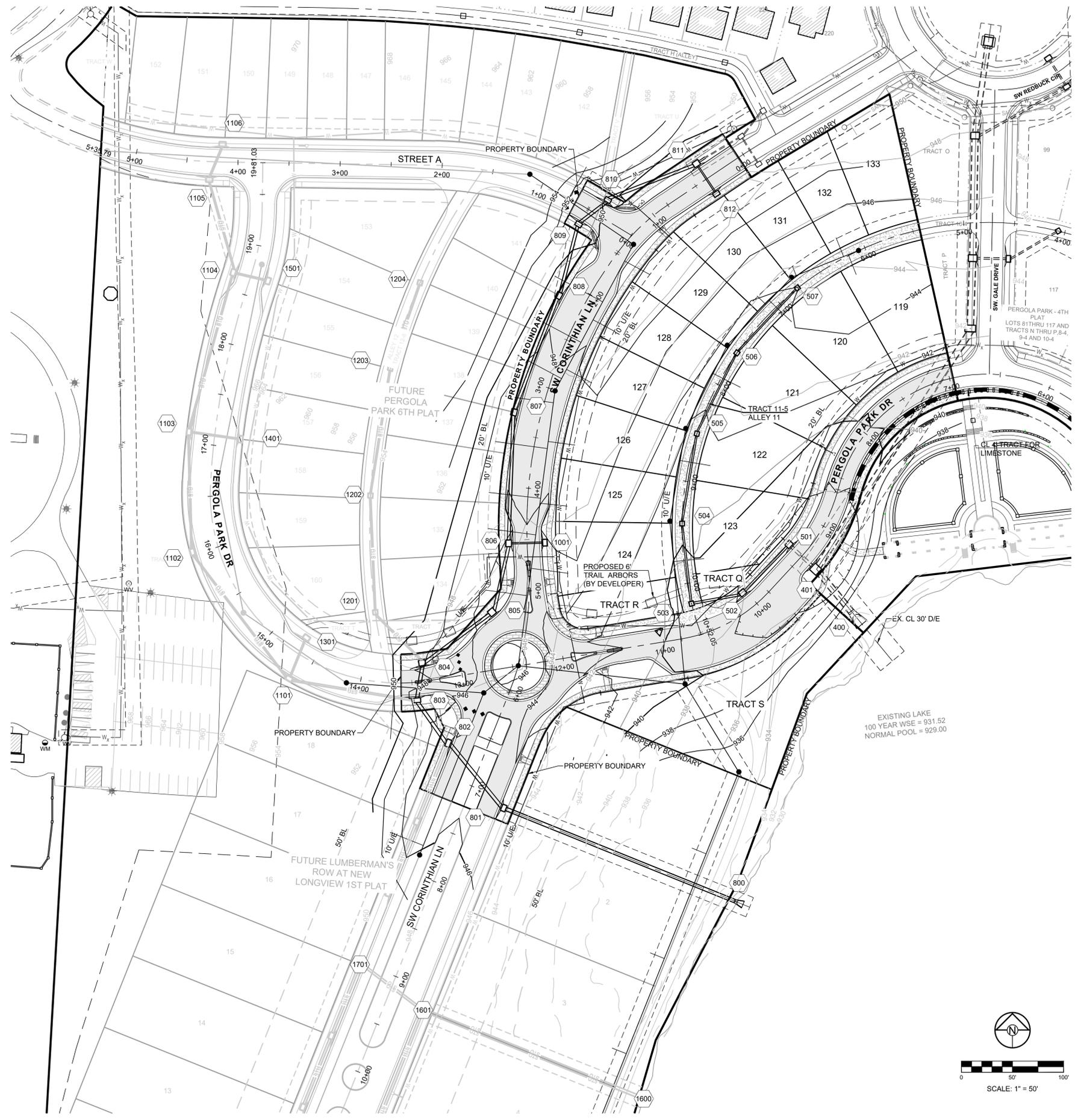
SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

DRAWN BY:	PROJECT NUMBER:
BAL	20-189

GENERAL LAYOUT
 SHEET
2



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Date: 5/22/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlager and Associates, P.A.

NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.

- DENOTES PROPOSED MAJOR CONTOUR
- DENOTES PROPOSED MINOR CONTOUR
- DENOTES EXISTING MAJOR CONTOUR
- DENOTES EXISTING MINOR CONTOUR
- DENOTES AS-BUILT MAJOR CONTOUR
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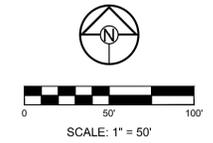
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ELEV. 935.18

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148
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 ELEV. 1004.09

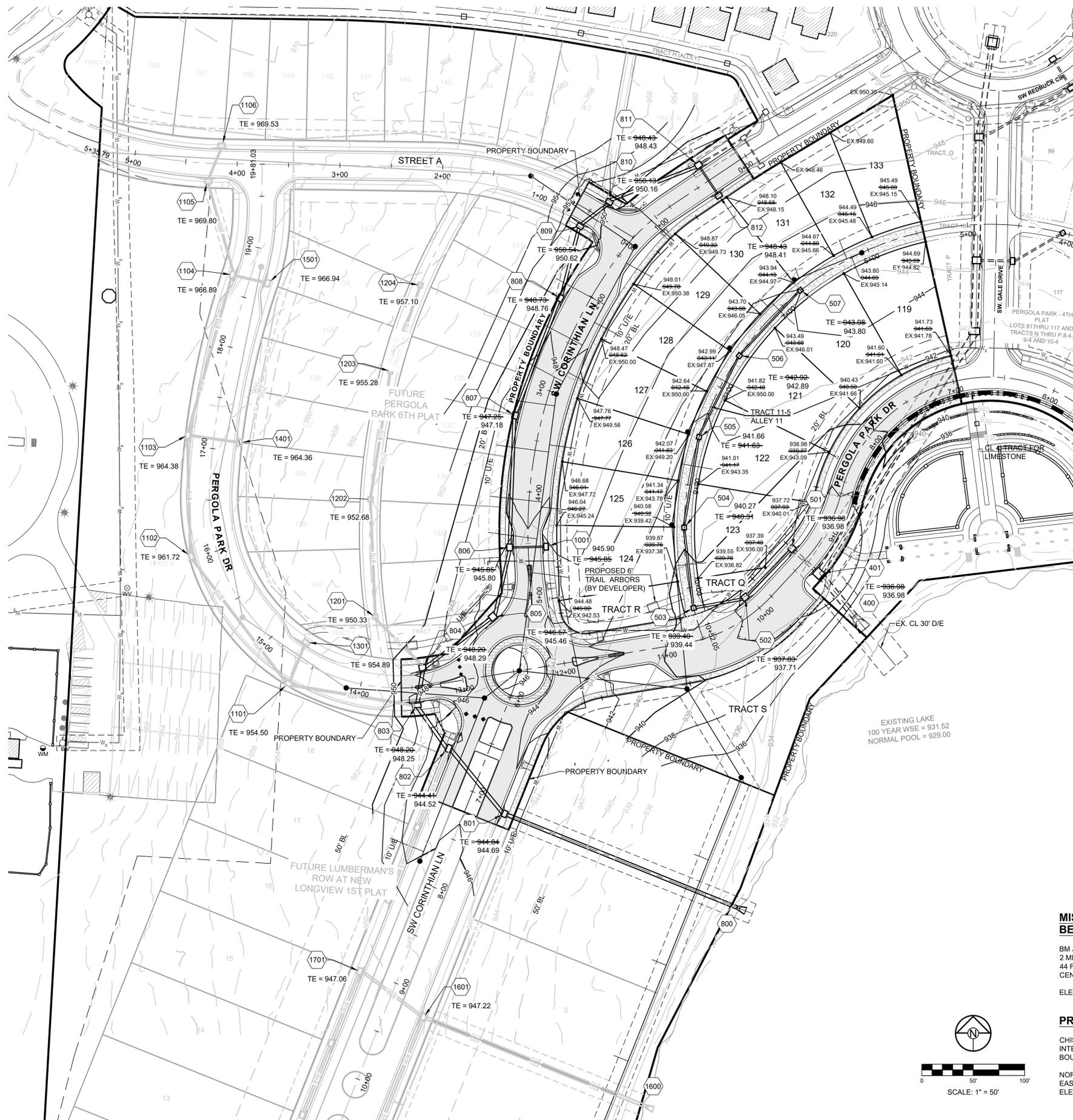


**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
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5-22-23	AS-BUILTS

DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	11-8-2021
PROJ. NUMBER:	20-189

MASTER DRAINAGE PLAN - GRADING PLAN



LOT TYPE TABLE

LOT #	BASEMENT TYPE	FRONT		REAR	
		MBOE	MBOE	MBOE	MBOE
119	STANDARD	942.35	945.60	942.25	945.20
120	STANDARD	942.10	945.60	942.10	944.30
121	STANDARD	941.00	944.20	940.90	944.00
122	STANDARD	939.80	943.00	939.50	942.30
123	STANDARD	940.50	943.85	938.50	941.50
124	STANDARD	946.80	941.00	946.55	941.10
125	STANDARD	947.40	941.65	947.20	941.85
126	STANDARD	948.30	942.35	948.30	942.60
127	STANDARD	949.50	943.00	949.00	943.20
128	STANDARD	950.20	943.60	949.55	943.50
129	STANDARD	950.20	944.20	949.40	944.20
130	STANDARD	949.75	944.70	948.60	944.50
131	STANDARD	949.10	945.20	949.10	945.20
132	STANDARD	950.10	945.65	950.10	945.00
133	STANDARD	950.85	946.20	950.85	946.00

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MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

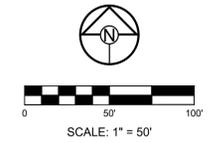
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**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	11-8-2021
PROJ. NUMBER:	20-189

MASTER DRAINAGE PLAN - LOT INFO

RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates.

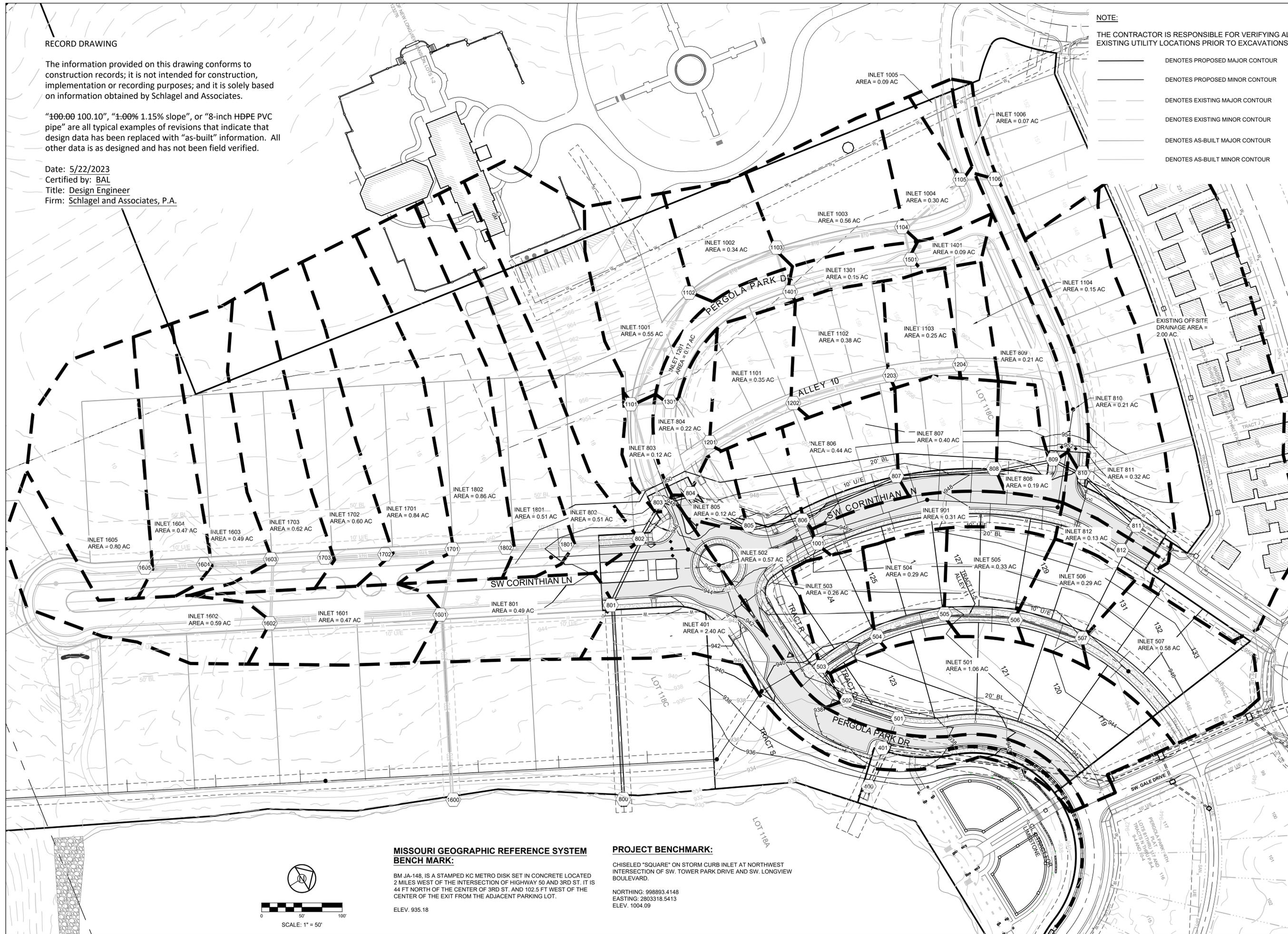
"100-00 100.10", "1-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 5/22/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlager and Associates, P.A.

NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.

- DENOTES PROPOSED MAJOR CONTOUR
- DENOTES PROPOSED MINOR CONTOUR
- DENOTES EXISTING MAJOR CONTOUR
- DENOTES EXISTING MINOR CONTOUR
- DENOTES AS-BUILT MAJOR CONTOUR
- DENOTES AS-BUILT MINOR CONTOUR



SCHLAGEL
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 #E200200360F #LAC201005237 #LS200200869F

PREPARED BY:

 05.23.2023

SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.
 ELEV. 935.18

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.
 NORTHING: 998893.4148
 EASTING: 2803318.5413
 ELEV. 1004.09

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

MASTER DRAINAGE PLAN - DRAINAGE MAP

SHEET
5

RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlagel and Associates.

"100.00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 5/22/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlagel and Associates, P.A.

10-YEAR RUNOFF CALCULATIONS

Design Storm: 10																											
"K" Value: 1.00																											
"F" Factor: 1.00																											
Runoff Calculations										Pipe Properties																	
Inlet #	Area (acres)	"C" Value	Area (acres)	Cumul. CxA	Tc	Intensity	To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n"	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top	HGL Elev.	
EXISTING LINE 400																											
401	2.40	0.66	46.76	30.86	5.7	7.13	11.29	220.00	220.20	9.27	501		3.38	2.23	401	400	RCP	0.013	66	53.87	0.43	0.50	927.98	927.75	DS TAILWATER @ STR #400	939.00	939.27
402	0.04	0.66	40.98	27.05	5.4	7.24	0.19	195.88	286.92	12.08			0.00	0.00	402	401	RCP	0.013	66	279.37	0.73	0.50	930.42	928.38		941.97	935.25
403	0.07	0.66	40.94	27.02	5.3	7.27	0.34	196.43	300.36	12.64	601		0.90	0.59	403	402	RCP	0.013	66	68.66	0.80	0.50	931.17	930.62		944.37	936.00
404	0.06	0.66	39.97	26.38	5.1	7.32	0.29	193.18	270.74	11.40	701		1.41	0.93	404	403	RCP	0.013	66	119.40	0.65	1.00	932.35	931.57		948.40	937.14
405	38.50	0.66	38.50	25.41	5.0	7.35	186.84	186.84	251.06	15.79			0.00	0.00	405	404	RCP	0.013	54	92.89	1.63	N/A	934.86	933.35		947.96	940.04
EXISTING LINE 600																											
601	0.36	0.66	0.90	0.59	5.1	7.33	1.74	4.35	19.45	11.00			0.00	0.00	601	403	HDPE	0.012	18	36.00	2.92	0.50	936.02	934.97		944.39	937.04
602	0.54	0.66	0.54	0.36	5.0	7.35	2.62	2.62	13.70	11.16			0.00	0.00	602	601	HDPE	0.012	15	55.86	3.83	N/A	938.53	936.39		946.23	939.31
EXISTING LINE 700																											
701	1.14	0.66	1.41	0.93	5.1	7.32	5.51	6.82	9.26	7.59			0.00	0.00	701	404	PEP	0.012	15	102.48	1.75	0.50	941.69	939.90		949.19	943.04
702	0.27	0.66	0.27	0.18	5.0	7.35	1.31	1.31	7.00	5.74			0.00	0.00	702	701	PEP	0.012	15	33.00	1.03	N/A	942.48	942.14		949.13	943.04
LINE 500																											
501	1.06	0.66	3.38	2.23	6.2	7.01	4.90	15.64	28.10	5.73			0.00	0.00	501	401	PEP	0.012	30	35.50	0.40	0.45	931.12	930.98		936.98	933.39
502	0.57	0.66	2.32	1.53	6.0	7.05	2.65	10.79	24.51	7.80			0.00	0.00	502	501	PEP	0.012	24	65.53	1.00	0.50	932.23	931.57		937.83	933.65
503	0.26	0.66	1.75	1.16	5.9	7.08	1.22	8.18	24.51	7.80			0.00	0.00	503	502	PEP	0.012	24	51.05	1.00	0.50	933.24	932.73		939.40	934.46
504	0.29	0.66	1.49	0.98	5.7	7.13	1.37	7.02	12.47	7.05			0.00	0.00	504	503	PEP	0.012	18	78.60	1.20	0.50	934.68	933.74		940.30	935.94
505	0.33	0.66	1.20	0.79	5.5	7.20	1.57	5.70	11.38	6.44			0.00	0.00	505	504	PEP	0.012	18	88.86	1.00	0.50	936.07	935.18		941.62	937.19
506	0.29	0.66	0.87	0.57	5.3	7.28	1.39	4.18	7.34	5.98			0.00	0.00	506	505	PEP	0.012	15	87.96	1.10	0.50	937.54	936.57		942.92	938.55
507	0.58	0.66	0.58	0.38	5.0	7.35	2.81	2.81	7.00	5.70			0.00	0.00	507	506	PEP	0.012	15	86.70	1.00	N/A	938.90	938.04		943.98	939.71
LINE 800																											
801	0.49	0.51	7.40	4.60	6.6	6.89	1.72	31.72	66.70	9.44			0.00	0.00	801	800	RCP	0.013	36	243.24	1.00	2.50	930.93	928.50	DS TAILWATER @ STR #800	944.84	934.14
802	1.38	0.51	6.91	4.35	6.5	6.93	4.88	30.17	68.55	9.70			0.00	0.00	802	801	PEP	0.012	36	83.38	0.90	0.50	934.18	933.43		944.41	936.33
803	0.12	0.66	5.53	3.65	6.3	6.96	0.55	25.41	51.09	7.23	1101		2.32	1.53	803	802	PEP	0.012	36	51.75	0.50	0.50	934.94	934.68		948.20	936.90
804	0.22	0.66	3.09	2.04	6.2	6.99	1.01	14.26	31.42	6.40	1201		1.13	0.75	804	803	PEP	0.012	30	36.23	0.50	0.50	935.62	935.44		948.20	938.03
805	0.12	0.66	1.74	1.15	6.0	7.05	0.56	8.10	31.42	6.40			0.00	0.00	805	804	PEP	0.012	30	84.51	0.50	0.50	936.55	936.12		946.57	937.67
806	0.40	0.66	1.62	1.07	5.8	7.10	1.88	7.59	31.42	6.40	1001		0.31	0.20	806	805	PEP	0.012	30	69.15	0.50	0.50	937.39	937.05		945.85	938.48
807	0.40	0.66	0.91	0.60	5.5	7.20	1.90	4.32	31.42	6.40			0.00	0.00	807	806	PEP	0.012	30	127.94	0.50	0.50	938.53	937.89		947.25	939.34
808	0.19	0.66	0.51	0.34	5.2	7.30	0.91	2.46	31.42	6.40			0.00	0.00	808	807	PEP	0.012	30	121.88	0.50	0.50	939.64	939.03		948.73	940.24
809	0.32	0.66	0.32	0.21	5.0	7.35	1.55	1.55	31.42	6.40			0.00	0.00	809	808	PEP	0.012	30	72.14	0.50	0.50	940.50	940.14		950.54	940.98
810	0.21	0.66	0.21	0.14	5.0	7.35	1.02	1.02	31.42	6.40			0.00	0.00	810	809	PEP	0.012	30	37.09	0.50	0.50	941.19	941.00		950.13	941.57
811	2.32	0.66	2.63	1.74	5.1	7.31	11.19	12.69	31.42	6.40			0.00	0.00	811	810	PEP	0.012	30	93.67	0.50	1.25	942.15	941.69		948.43	943.58
812	0.13	0.66	0.13	0.09	5.0	7.35	0.63	0.63	4.95	4.03			0.00	0.00	812	811	PEP	0.012	15	35.50	0.50	N/A	943.98	943.40		948.43	943.94
LINE 1000																											
1001	0.31	0.66	0.31	0.20	5.0	7.35	1.50	1.50	4.95	4.03			0.00	0.00	1001	806	PEP	0.012	15	35.00	0.50	N/A	938.82	938.64		945.85	939.39
LINE 1100																											
1101	0.55	0.66	2.32	1.53	6.0	7.05	2.56	10.79	30.32	17.16	1301		0.17	0.11	1101	803	PEP	0.012	15	127.32	1.10	0.50	945.48	936.44		954.50	947.88
1102	0.34	0.66	1.60	1.06	5.8	7.11	1.60	7.51	13.28	10.82			0.00	0.00	1102	1101	PEP	0.012	15	155.72	3.60	0.50	951.59	945.98		961.72	954.32
1103	0.56	0.66	1.26	0.83	5.6	7.17	2.65	5.96	12.12	9.88	1401		0.15	0.10	1103	1102	PEP	0.012	15	117.18	3.00	0.50	955.60	952.09		964.38	956.85
1104	0.30	0.66	0.55	0.36	5.3	7.26	1.44	2.63	11.61	9.46	1501		0.09	0.06	1104	1103	PEP	0.012	15	161.35	2.75	0.50	960.54	956.10		966.89	961.31
1105	0.09	0.66	0.16	0.11	5.1	7.32	0.43	0.77	9.26	7.54			0.00	0.00	1105	1104	PEP	0.012	15	93.36	1.75	0.50	962.67	961.04		969.80	963.07
1106	0.07	0.66	0.07	0.05	5.0	7.35	0.34	0.34	7.00	5.70			0.00	0.00	1106	1105	PEP	0.012	15	37.07	1.00	N/A	963.94	963.17		969.53	963.97
LINE 1200																											
1201	0.35	0.66	1.13	0.75	5.6	7.18	1.66	5.35	18.52	15.09			0.00	0.00	1201	804	PEP	0.012	15	67.70	7.00	0.50	941.61	936.87		950.33	942.78
1202	0.38	0.66	0.78	0.51	5.4	7.23	1.81	3.72	13.09	10.87			0.00	0.00	1202	1201	PEP	0.012	15	113.91	3.50	0.50	946.10	942.11		952.68	947.04
1203	0.25	0.66	0.40	0.26	5.2	7.30	1.20	1.93	11.06	9.02			0.00	0.00	1203	1202	PEP	0.012	15	125.72	2.50	0.50	949.74	946.60		955.28	950.40
1204	0.15	0.66	0.15	0.10	5.0	7.35	0.73	0.73	11.06	9.02			0.00	0.00	1204	1203	PEP	0.012	15	88.30	2.50	N/A	952.45	950.24		957.10	952.84
LINE 1300																											
1301	0.17	0.66	0.17	0.11	5.0	7.35	0.83	0.83	15.65	12.75			0.00	0.00	1301	1101	PEP	0.012	15	43.48	5.00	N/A	948.16	945.98		954.89	948.72
LINE 1400																											
1401	0.15	0.66	0.15	0.10	5.0	7.35	0.73	0.73	14.00	11.41			0.00	0.00	1401	1103	PEP	0.012	15	51.01	4.00	N/A	958.14	956.10		964.36	

GUTTER SPREAD AND INLET CAPACITY CALCULATIONS - PERGOLA PARK 4TH PLAT

DESIGN STORM 10 CURB TYPE "A" = LAZY BACK
 "K" FACTOR 1.00 CURB TYPE "B" = HIGH BACK

RUNOFF CALCULATIONS											INLET DESIGN						GUTTER DESIGN					
INLET #	COMPOSITE "C"	AREA	INLET Tc	INTENSITY	RUNOFF	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	BYPASS FROM UPSTREAM INLET	TOTAL RUNOFF	STREET GRADE	STREET CROSS SLOPE	CURB TYPE	INLET LENGTH	EFFECTIVE LENGTH 80% CAP	INLET INTERCEPTION	BYPASS TO DOWNSTREAM INLET	STREET GRADE	STREET CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW
EXISTING LINE 4																						
401	0.66	2.40	5	7.35	11.64	801	802	803		0.93	12.57	SUMP	2.08	A	8	6.4	17.92	0.00	SUMP	2.08	< 0.21	< 10.50
402	0.66	0.04	5	7.35	0.19	403				0.02	0.21	3.24	2.08	A	6	4.8	0.20	0.00	3.24	2.08	0.06	3.48
403	0.66	0.07	5	7.35	0.34	404				0.01	0.35	3.24	2.08	A	6	4.8	0.33	0.02	3.24	2.08	0.08	4.12
404	0.66	0.06	5	7.35	0.29					0.00	0.29	3.24	2.08	A	6	4.8	0.28	0.01	3.24	2.08	0.07	3.88
LINE 5																						
501	0.66	1.06	5	7.35	5.14	402	502			1.09	6.24	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50
502	0.66	0.57	5	7.35	2.77	804	503	806	901	0.84	3.61	1.95	2.08	A	6	4.8	2.52	1.09	1.95	2.08	0.20	10.05
503	0.66	0.26	5	7.35	1.26	504				0.33	1.59	1.49	2.08	A	4	3.2	1.33	0.26	1.49	2.08	0.15	7.89
504	0.66	0.29	5	7.35	1.41	505				0.40	1.81	1.49	2.08	A	4	3.2	1.48	0.33	1.49	2.08	0.16	8.25
505	0.66	0.33	5	7.35	1.60	506				0.41	2.01	1.49	2.08	A	4	3.2	1.61	0.40	1.49	2.08	0.17	8.57
506	0.66	0.29	5	7.35	1.41	507				0.63	2.03	1.49	2.08	A	4	3.2	1.63	0.41	1.49	2.08	0.17	8.60
507	0.66	0.58	5	7.35	2.81					0.00	2.81	1.13	2.08	A	4	3.2	2.19	0.63	1.13	2.08	0.20	10.14
LINE 8																						
801	0.51	0.49	5	7.35	1.84	1601				0.12	1.96	1.12	2.08	A	6	4.8	1.77	0.20	1.12	2.08	0.18	8.93
802	0.51	0.51	5	7.35	1.91	1701	1801			0.25	2.16	1.12	2.08	A	6	4.8	1.92	0.24	1.12	2.08	0.18	9.24
803	0.66	0.12	5	7.35	0.58	1101				1.61	2.19	3.00	2.08	A	6	4.8	1.70	0.49	3.00	2.08	0.15	7.81
804	0.66	0.22	5	7.35	1.07	1301	1201			0.67	1.74	3.00	2.08	A	6	4.8	1.43	0.31	3.00	2.08	0.14	7.20
805	0.66	0.12	5	7.35	0.58					0.00	0.58	3.00	2.08	A	6	4.8	0.55	0.03	3.00	2.08	0.09	4.94
806	0.66	0.40	5	7.35	1.94	807				0.23	2.17	1.28	2.08	A	6	4.8	1.90	0.27	1.28	2.08	0.18	9.04
807	0.66	0.40	5	7.35	1.94	808				0.07	2.01	1.28	2.08	A	6	4.8	1.78	0.23	1.28	2.08	0.17	8.80
808	0.66	0.19	5	7.35	0.92	809				0.24	1.16	1.38	2.08	A	6	4.8	1.09	0.07	1.28	2.08	0.14	7.25
809	0.66	0.32	5	7.35	1.55					0.00	1.55	2.75	2.08	A	6	4.8	1.32	0.24	2.75	2.08	0.14	7.03
810	0.66	0.21	5	7.35	1.02	1106				0.00	1.02	2.75	2.08	A	6	4.8	0.92	0.10	2.75	2.08	0.12	6.08
811	0.66	2.32	5	7.35	11.25	810				0.10	11.35	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50
812	0.66	0.13	5	7.35	0.63					0.00	0.63	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50
LINE 1000																						
1001	0.66	0.31	5	7.35	1.50					0.00	1.50	1.28	2.08	A	6	4.8	1.38	0.12	1.28	2.08	0.15	7.94
LINE 1100																						
1101	0.66	0.55	5	7.35	2.67	1102				0.77	3.44	6.02	2.08	A	6	4.8	1.83	1.61	6.02	2.08	0.16	8.09
1102	0.66	0.34	5	7.35	1.65	1103				0.59	2.24	6.02	2.08	A	6	4.8	1.47	0.77	6.02	2.08	0.13	6.97
1103	0.66	0.56	5	7.35	2.72	1104				0.15	2.87	1.80	2.08	A	6	4.8	2.28	0.59	1.80	2.08	0.19	9.40
1104	0.66	0.30	5	7.35	1.46	1105				0.01	1.46	1.80	2.08	A	6	4.8	1.31	0.15	1.80	2.08	0.14	7.41
1105	0.66	0.09	5	7.35	0.44					0.00	0.44	1.50	2.08	A	6	4.8	0.43	0.01	1.50	2.08	0.09	5.04
1106	0.66	0.07	5	7.35	0.34					0.00	0.34	1.50	2.08	A	6	4.8	0.34	0.00	1.50	2.08	0.09	4.64
LINE 1200																						
1201	0.66	0.35	5	7.35	1.70	1202				0.49	2.19	2.45	2.08	A	4	3.2	1.64	0.55	2.45	2.08	0.16	8.08
1202	0.66	0.38	5	7.35	1.84	1203				0.20	2.05	2.45	2.08	A	4	3.2	1.56	0.49	2.45	2.08	0.15	7.90
1203	0.66	0.25	5	7.35	1.21	1204				0.07	1.28	2.45	2.08	A	4	3.2	1.08	0.20	2.45	2.08	0.13	6.71
1204	0.66	0.15	5	7.35	0.73					0.00	0.73	2.45	2.08	A	4	3.2	0.66	0.07	2.45	2.08	0.10	5.52
LINE 1300																						
1301	0.66	0.17	5	7.35	0.82	1401				0.03	0.86	6.02	2.08	A	6	4.8	0.73	0.12	6.02	2.08	0.09	5.01
LINE 1400																						
1401	0.66	0.15	5	7.35	0.73	1501				0.01	0.74	1.80	2.08	A	6	4.8	0.70	0.03	1.80	2.08	0.11	5.84
LINE 1500																						
1501	0.66	0.09	5	7.35	0.44					0.00	0.44	1.80	2.08	A	6	4.8	0.43	0.01	1.80	2.08	0.09	4.89
LINE 1600																						
1601	0.51	0.47	5	7.35	1.76	1602				0.25	2.01	1.12	2.08	A	6	4.8	1.81	0.21	1.12	2.08	0.18	9.01
1602	0.51	0.59	5	7.35	2.21					0.00	2.21	1.12	2.08	A	6	4.8	1.96	0.25	1.12	2.08	0.18	9.32
1603	0.51	0.49	5	7.35	1.84	1604				0.26	2.09	1.12	2.08	A	6	4.8	1.87	0.22	1.12	2.08	0.18	9.14
1604	0.51	0.47	5	7.35	1.76	1605				0.47	2.23	1.12	2.08	A	6	4.8	1.97	0.26	1.12	2.08	0.18	9.35
1605	0.51	0.80	5	7.35	3.00					0.00	3.00	1.12	2.08	A	6	4.8	2.53	0.47	1.12	2.08	0.21	10.39
LINE 1700																						
1701	0.51	0.84	5	7.35	3.15	1702				0.35	3.50	1.12	2.08	A	6	4.8	2.86	0.64	1.12	2.08	0.22	10.97
1702	0.51	0.60	5	7.35	2.25	1703				0.34	2.59	1.12	2.08	A	6	4.8	2.24	0.35	1.12	2.08	0.19	9.85
1703	0.51	0.62	5	7.35	2.32	1603				0.22	2.55	1.12	2.08	A	6	4.8	2.21	0.34	1.12	2.08	0.19	9.80
LINE 1800																						
1801	0.51	0.51	5	7.35	1.91	1802				0.77	2.68	1.12	2.08	A	6	4.8	2.31	0.37	1.12	2.08	0.20	9.98
1802	0.51	0.86	5	7.35	3.22	1701				0.64	3.86	1.12	2.08	A	6	4.8	3.09	0.77	1.12	2.08	0.23	11.37

FUTURE

- NOTES:
 1. CAPACITY OF INLETS ON GRADE DETERMINED USING ROUTINE OUTLINED ON PGS 56-95 TO 56-97, SECTION 5600 APWA
 2. CAPACITY OF SUMP INLETS CALCULATED USING FIGURE 5604-21, SECTION 5600 APWA
 3. MANNINGS "n" VALUE FOR COMBINED ASPHALT PAVEMENT AND CONCRETE CURB - 0.014



SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

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 Title: Design Engineer
 Firm: Schlager and Associates, P.A.

MASTER DRAINAGE PLAN - DRAINAGE CALCULATIONS



EROSION AND SEDIMENT CONTROL STAGING CHART

PROJECT STAGE	BMP PLAN REF. NO	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
PRE-CLEARING PHASE	1	CONSTRUCTION ENTRANCE & STAGING AREA	D	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
	2	SILT FENCE WITH WOVEN WIRE FENCING	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	3	EXISTING INLET PROTECTION	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
CONSTRUCTION PHASE	4	SILT FENCE (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	5	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
FINAL STABILIZATION PHASE	6	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA A STORM STRUCTURES TO HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	7	INLET PROTECTION (GRAVEL FILTER BAGS)	E	BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH TIME THAT THE CURB / THROAT IS POURED. PLACE GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE POURED
FINAL STABILIZATION PHASE	8	SEEDING AND MULCHING	E	ALL DISTURBED AREAS AFTER 14 DAYS OF CONSTRUCTION INACTIVITY
				ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED ANY TIME CURRENT MEASURES ARE FOUND TO BE INEFFECTIVE.

LEGEND	
	TEMP. CONSTRUCTION ENTRANCE AND STAGING AREA
	CONCRETE WASHOUT AREA
	SILT FOAM DIKE - STAKED & INSTALL PER MFR'S RECOMMENDATIONS
	BMP PLAN REF. NO.
	SILT FENCE FOR INLET PROTECTION PRIOR TO STRUCTURE TOP
	SILT FENCE WITH WOVEN WIRE FENCING
	SILT FENCE (PRIOR TO LAND DISTURBANCE)
	SILT FENCE (DURING CONSTRUCTION)
	LIMITS OF DISTURBANCE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	GRAVEL FILTER FOR STORM SEWER STRUCTURES ONLY

DISTURBED AREA = 6.27 A.C.

SITE SPECIFIC NOTES:

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- THERE ARE NO WETLANDS, NATURAL OR ARTIFICIAL WATER STORAGE DETENTION AREAS IN THE PROJECT AREA.
- NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0414G DATED JANUARY 20TH, 2017.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED ACCORDING TO THE BMP STAGING CHART.
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- SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR.
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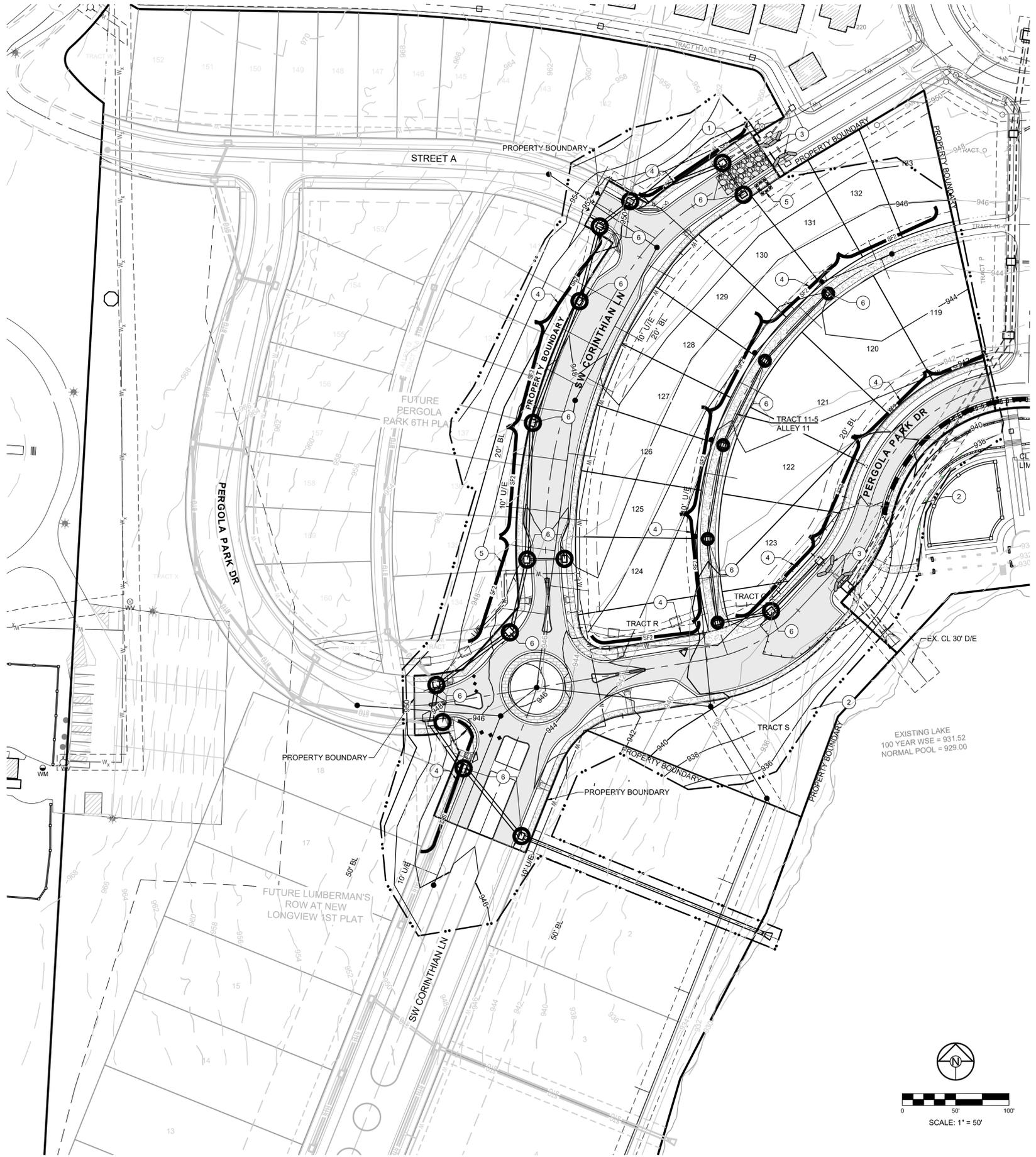
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 ELEV. 935.18

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.
 NORTHING: 998893.4148
 EASTING: 2803318.5413
 ELEV. 1004.09

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET THE INS
5-22-23	AS-BUILTS

DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
BAL	MAB	11-8-2021	20-189



EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	BMP PLAN REF. NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRIOR TO LAND DISTURBANCE	1	CONSTRUCTION ENTRANCE & STAGING AREA	D	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
	2	SILT FENCE WITH WOVEN WIRE FENCING	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	3	EXISTING INLET PROTECTION	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
B - MASS GRADING	4	SILT FENCE (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	5	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
C - UTILITY CONSTRUCTION	6	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES TO HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
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D - AFTER PAVING OPERATIONS	8	SEEDING AND MULCHING	E	ALL DISTURBED AREAS AFTER 14 DAYS OF CONSTRUCTION INACTIVITY
				ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED ANY TIME CURRENT MEASURES ARE FOUND TO BE INEFFECTIVE.
E - UNTIL CLOSURE OF LAND DISTURBANCE PERMIT				

LEGEND	
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	BMP PLAN REF. NO.
	SILT FENCE FOR INLET PROTECTION PRIOR TO STRUCTURE TOP
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	SILT FENCE (PRIOR TO LAND DISTURBANCE)
	SILT FENCE (DURING CONSTRUCTION)
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	EXISTING CONTOURS
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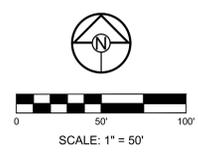
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REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	STREET THE INS
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EROSION CONTROL PLAN



EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	BMP PLAN REF. NO	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
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CONSTRUCTION PHASE B - MASS GRADING C - UTILITY CONSTRUCTION	4	SILT FENCE (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED. REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
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FINAL STABILIZATION PHASE D - AFTER PAVING OPERATIONS E - UNTIL CLOSURE OF LAND DISTURBANCE PERMIT	6	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES TO HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
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LEGEND	
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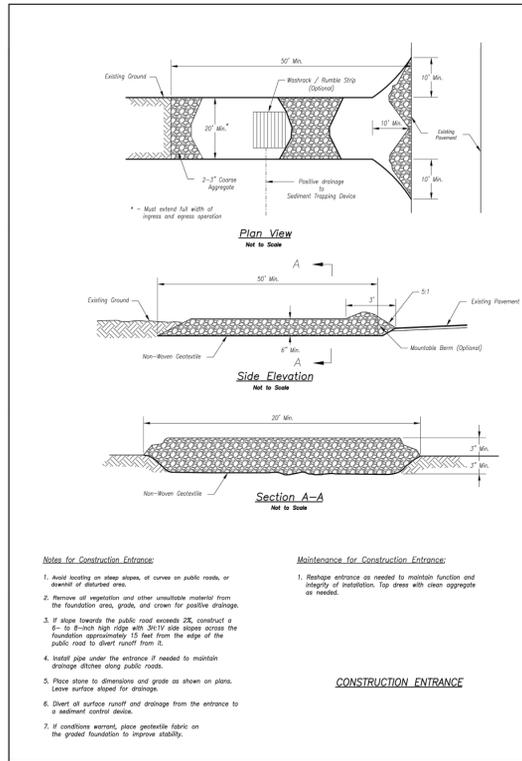
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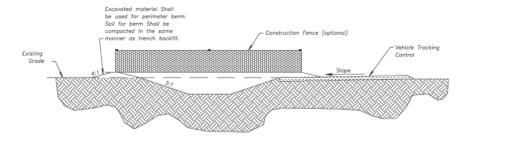
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- Notes for Concrete Washout:**
- Concrete washout areas shall be installed prior to any concrete placement on site.
 - Concrete washout areas shall include a 2' wide concrete curb on all sides to the concrete washout area. The concrete curb shall be 2' wide and 4\"/>

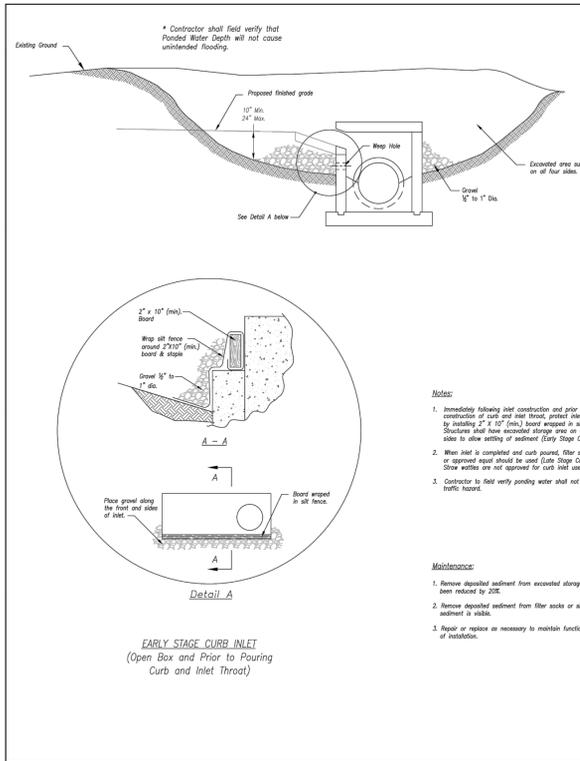
- Maintenance for Concrete Washout:**
- Concrete washout materials shall be removed once the materials have been washed to approximately 25% dry.
 - Concrete washout areas shall be kept as necessary to maintain capacity for washed concrete.
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- Notes for Construction Entrance:**
- Install curbs on steep slopes, at curves on public roads, or at points of disturbed areas.
 - Remove all vegetation and other undesirable material from the foundation area, grade, and crown for positive drainage.
 - If slope towards the public road exceeds 2%, construct a 6\"/>

CONSTRUCTION ENTRANCE

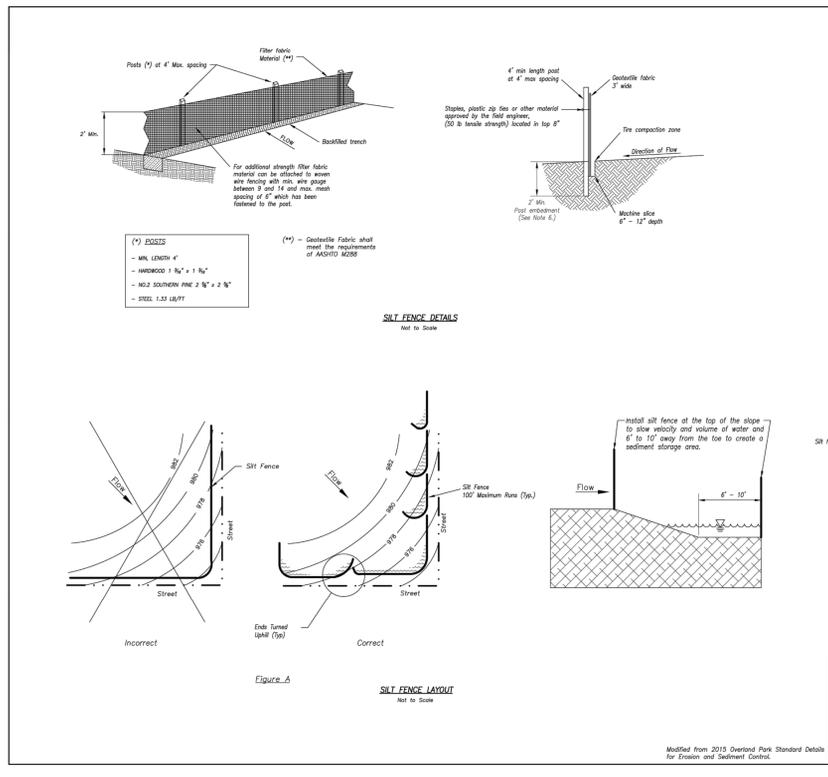
AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
 STANDARD DRAWING NUMBER ESC-06 ADOPTED 10/24/2016



- Notes:**
- Immediately following inlet construction and prior to construction of curb and inlet, excavated area shall be covered by installing 2' x 10' (min.) boards wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
 - When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Silt fences are not approved for curb inlet use.
 - Contractor to field verify pending water shall not create a traffic hazard.

- Maintenance:**
- Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
 - Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
 - Repair or replace as necessary to maintain function and integrity of installation.

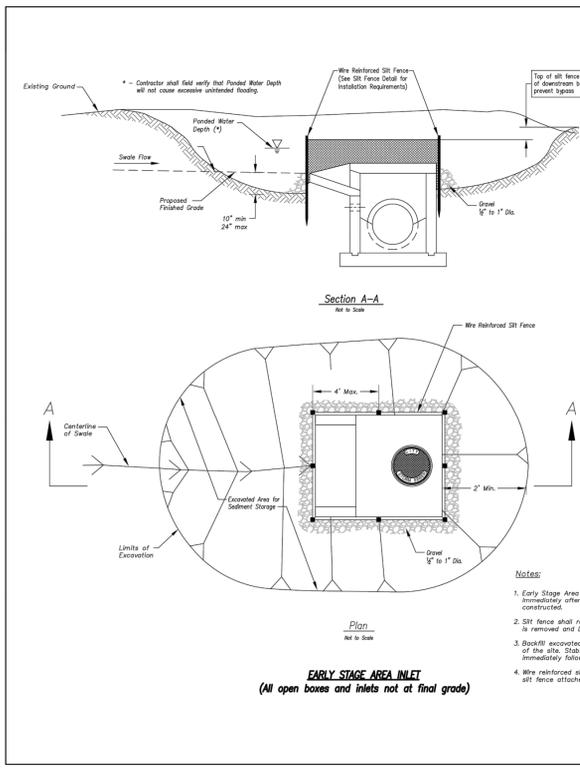
AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 CURB INLET PROTECTION
 STANDARD DRAWING NUMBER ESC-06 ADOPTED 10/24/2016



- Notes:**
- In order to contain water, the ends of the silt fence must be turned up (Figure A).
 - Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
 - Long slopes should be broken up with intermediate runs of silt fence to slow runoff velocities.
 - Attach fabric to upstream side of post.
 - Install posts a minimum of 2' into the ground.
 - Tranching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

- Maintenance:**
- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
 - Repair as necessary to maintain function and structure.

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 SILT FENCE
 STANDARD DRAWING NUMBER ESC-03 ADOPTED 10/24/2016



- Notes:**
- Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
 - Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is fully installed.
 - Backfill excavated area ONLY after final grading of the area. Rehabilitation of the site is to immediately follow.
 - Wire reinforced silt fence may be used in place of silt fence attached to wood frame.

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 AREA INLET AND JUNCTION BOX PROTECTION
 STANDARD DRAWING NUMBER ESC-07 ADOPTED 10/24/2016

RECORD DRAWING
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 Missouri State Certificate of Authority
 #E200200360P-F #LAC2001005237 #LS200200859F

PREPARED BY:
 MARK ALLEN BREUER
 PROFESSIONAL ENGINEER
 MEMBER PE-200307268

05.23.2023
 SCHLAGEL & ASSOCIATES, P.A.

PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS
11-8-2021	DATE PREPARED
20-189	PROJ. NUMBER

EROSION CONTROL DETAILS

SHEET 11

NOTE:

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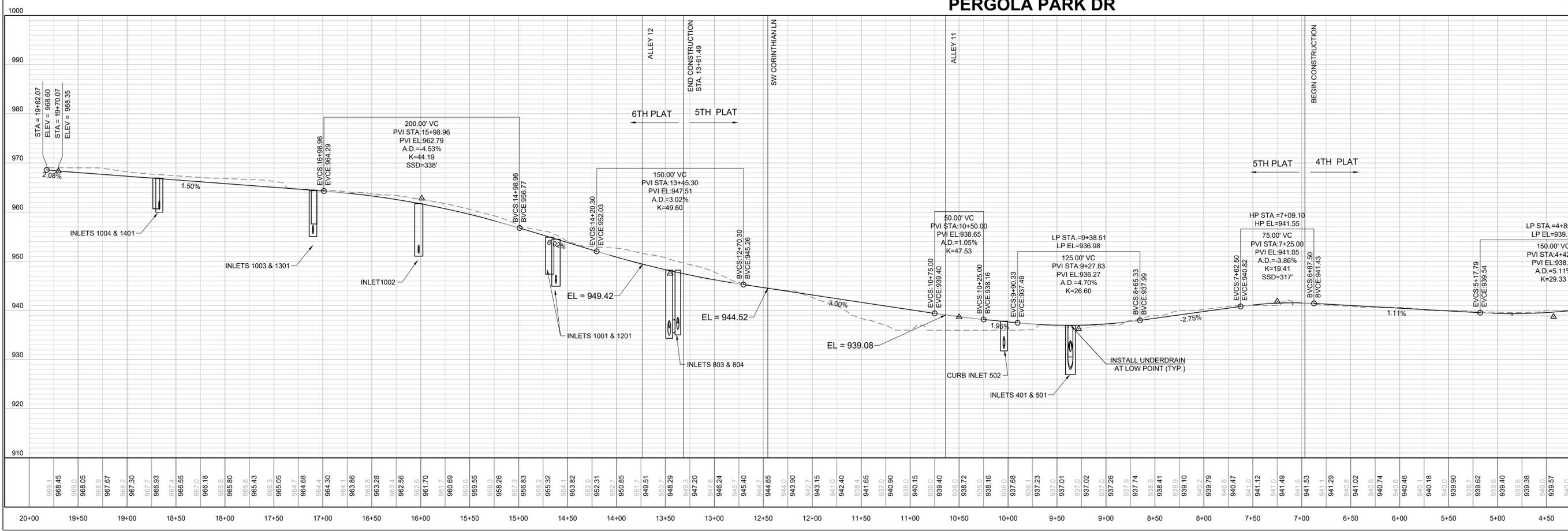
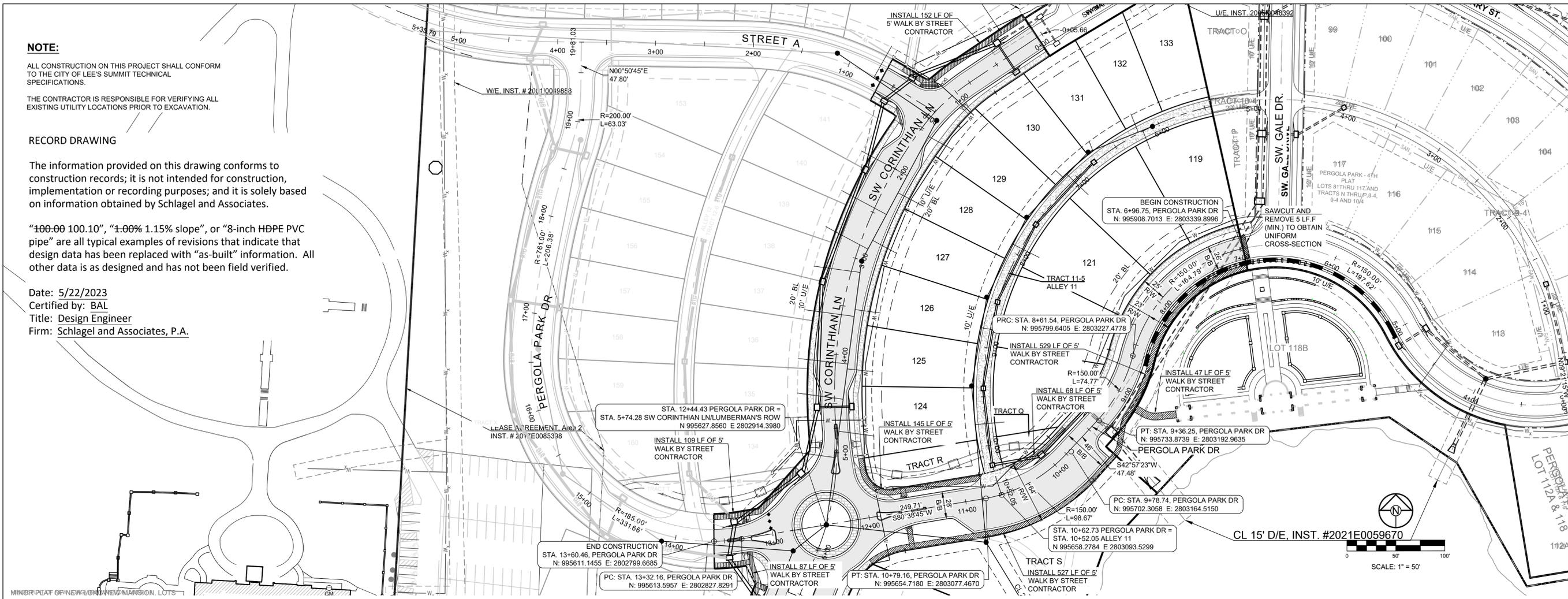
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PREPARED BY:

 05.23.2023

SCHLAGEL & ASSOCIATES, P.A.

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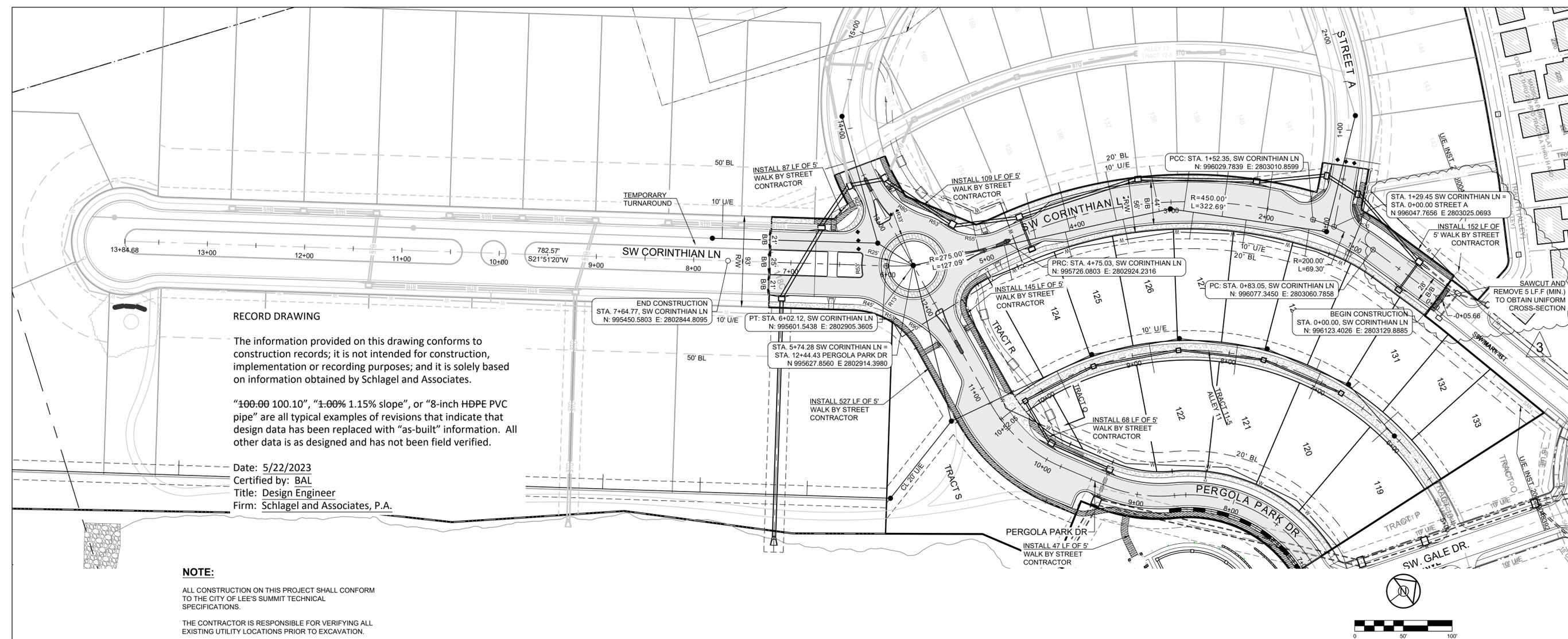
PERGOLA PARK
 DR PLAN &
 PROFILE

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DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	11-18-2021
PROJ. NUMBER:	20-189

SW CORINTHIAN LN PLAN & PROFILE

SHEET



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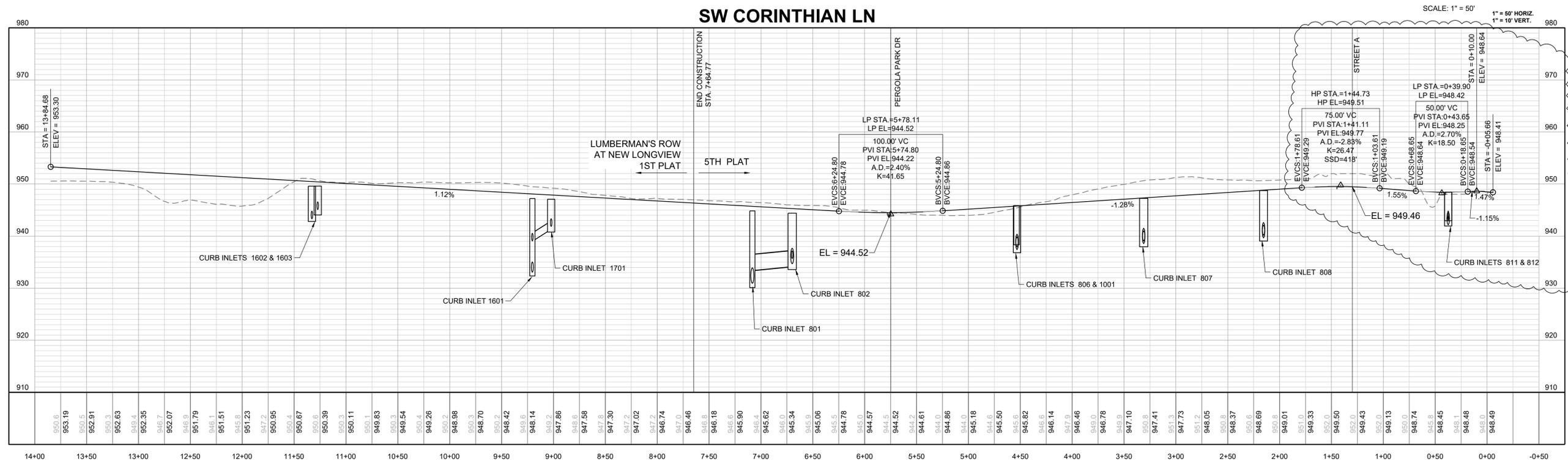
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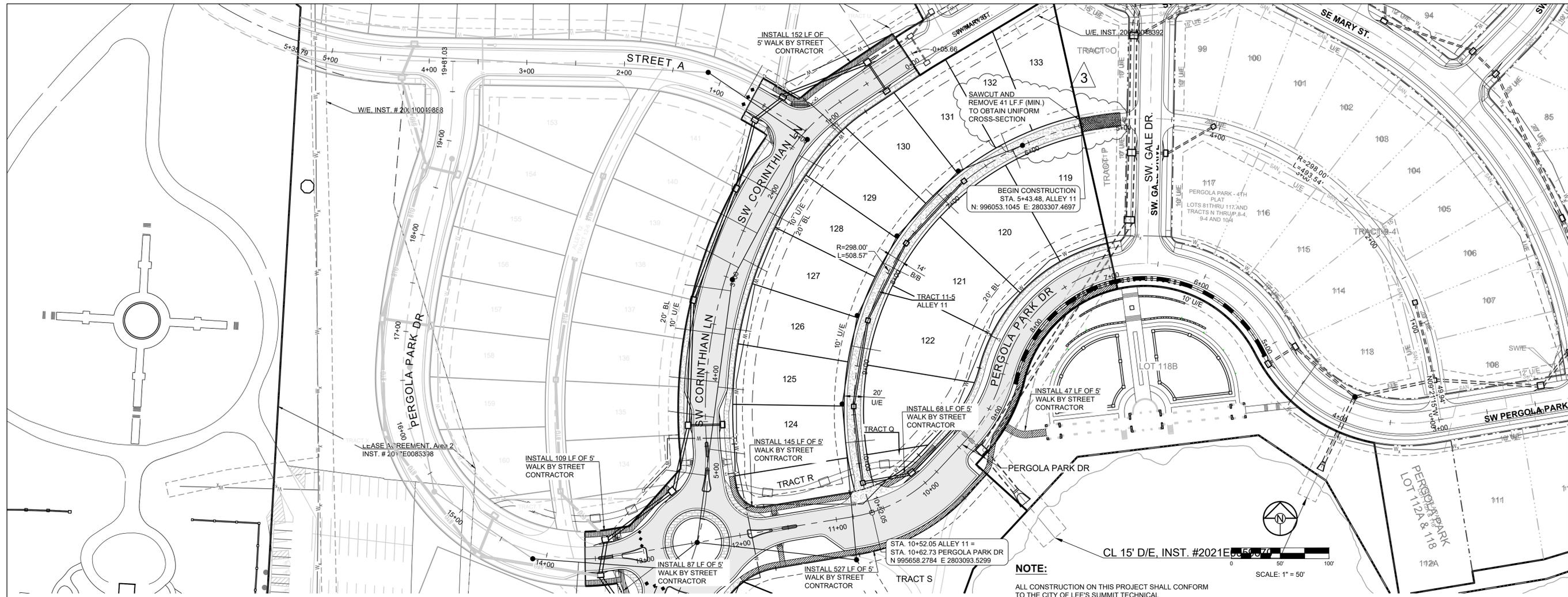
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SW CORINTHIAN LN



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 #2003007268

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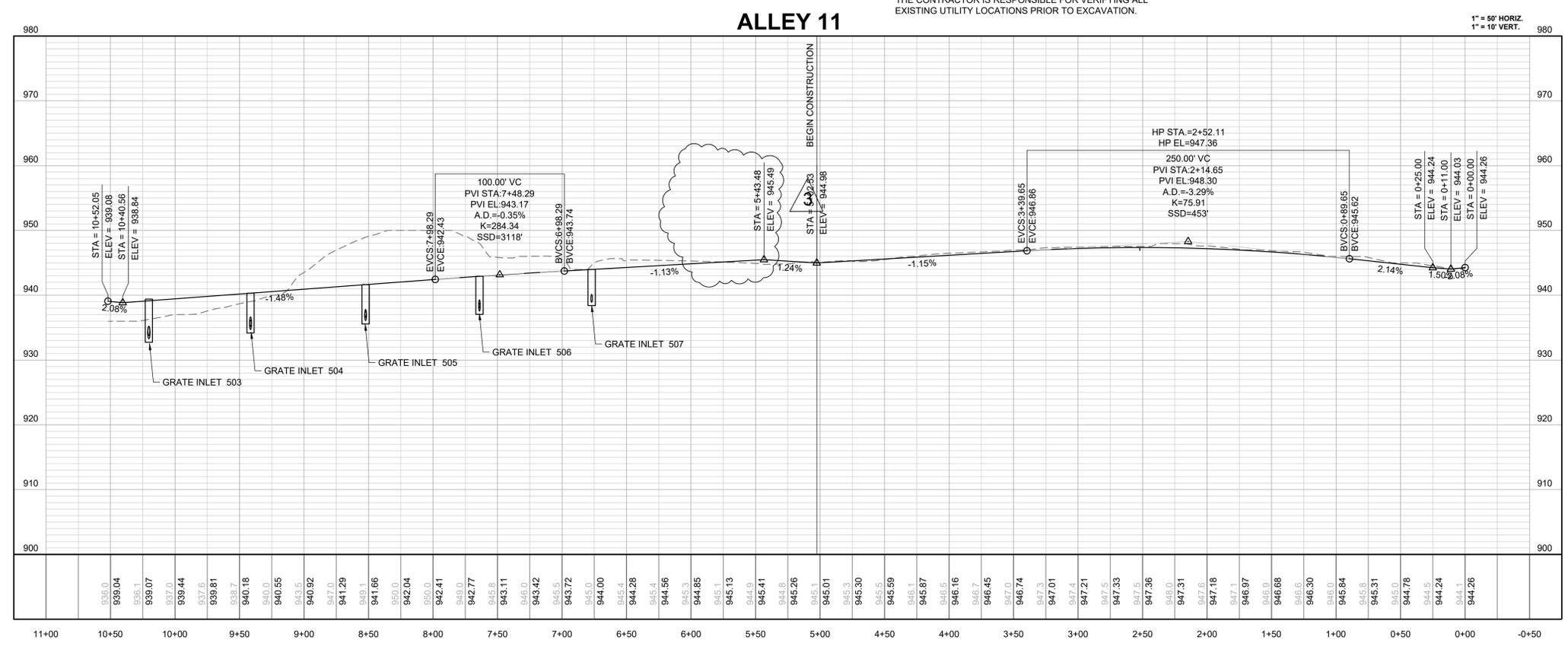
PERGOLA PARK 5TH PLAT
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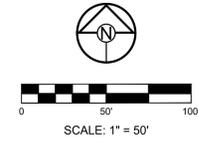
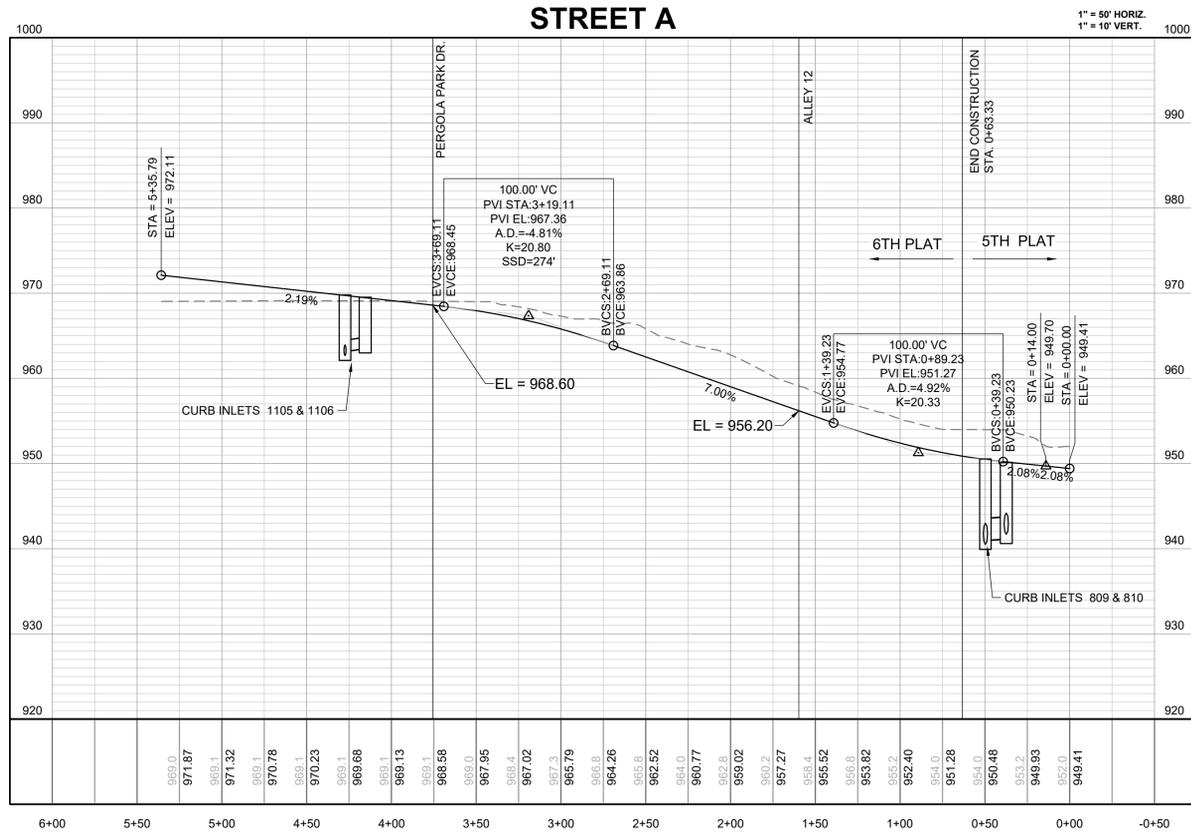
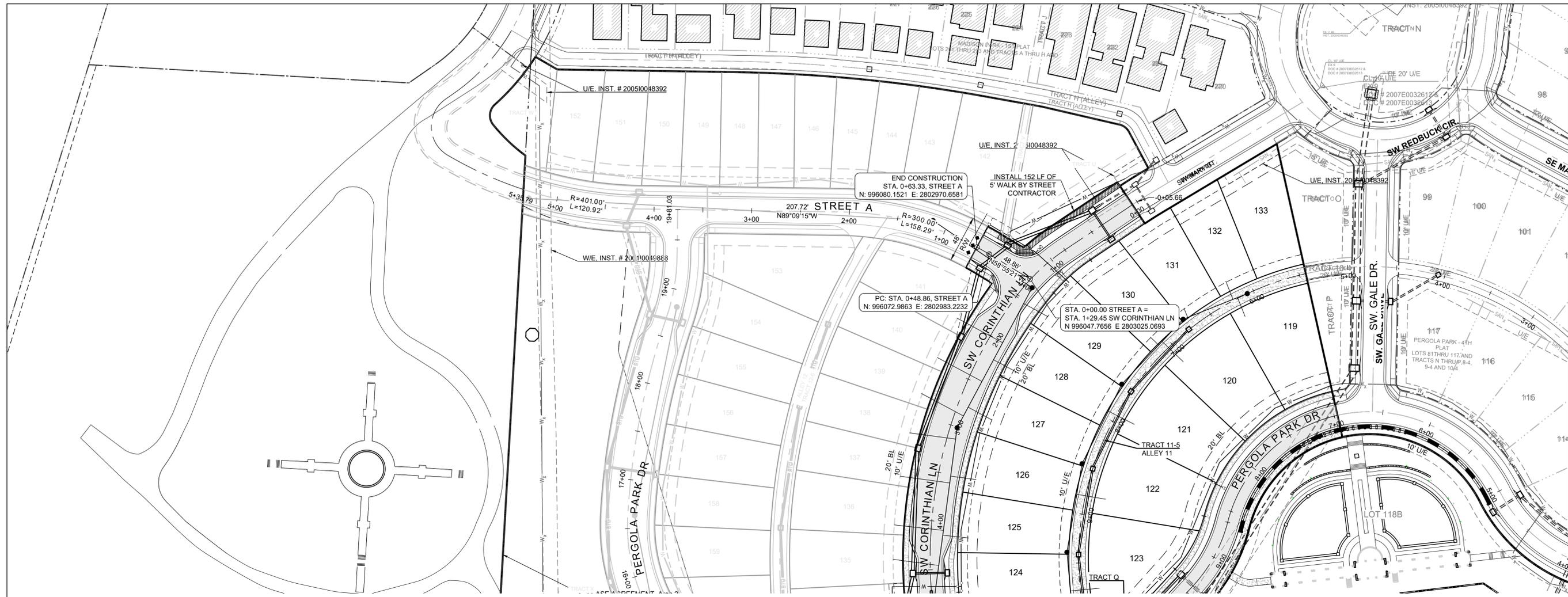
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DRAWN BY: BAL	CHECKED BY: MAB	DATE PREPARED: 11-8-2021	PROJ. NUMBER: 20-189
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ALLEY 11 PLAN & PROFILE

SHEET

14



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PREPARED BY:

 05.23.2023

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**PERGOLA PARK 5TH PLAT
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STREET A PLAN & PROFILE

**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
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**ROUNDABOUT
 INTERSECTION
 DETAIL**

CURB LEGEND

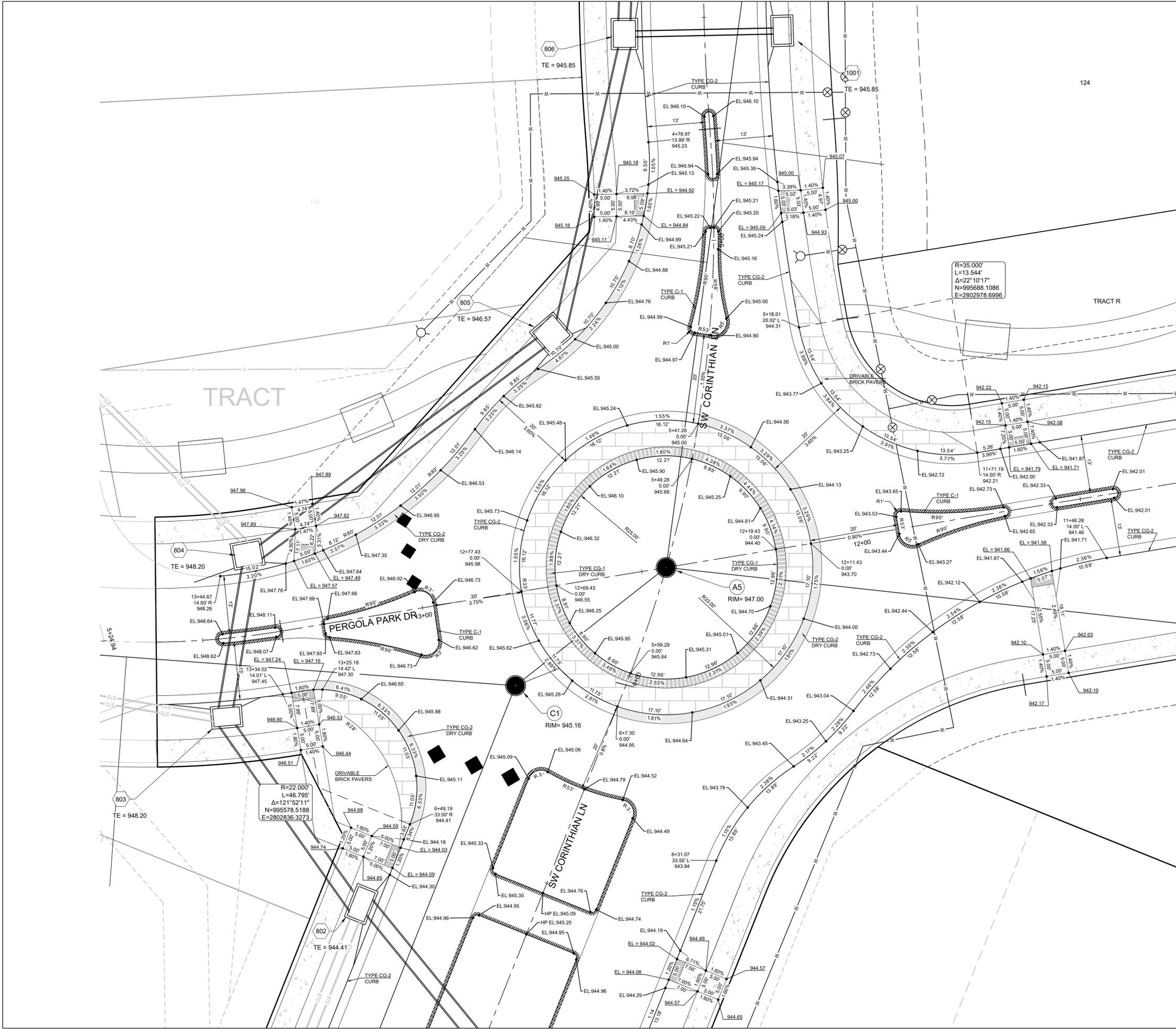
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	TYPE "CG-2" DRY CURB & GUTTER
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	TYPE C-1 CURB
	DRIVABLE BRICK PAVERS

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ALLEY 11
 INTERSECTION
 DETAIL

SHEET
17

CURB LEGEND

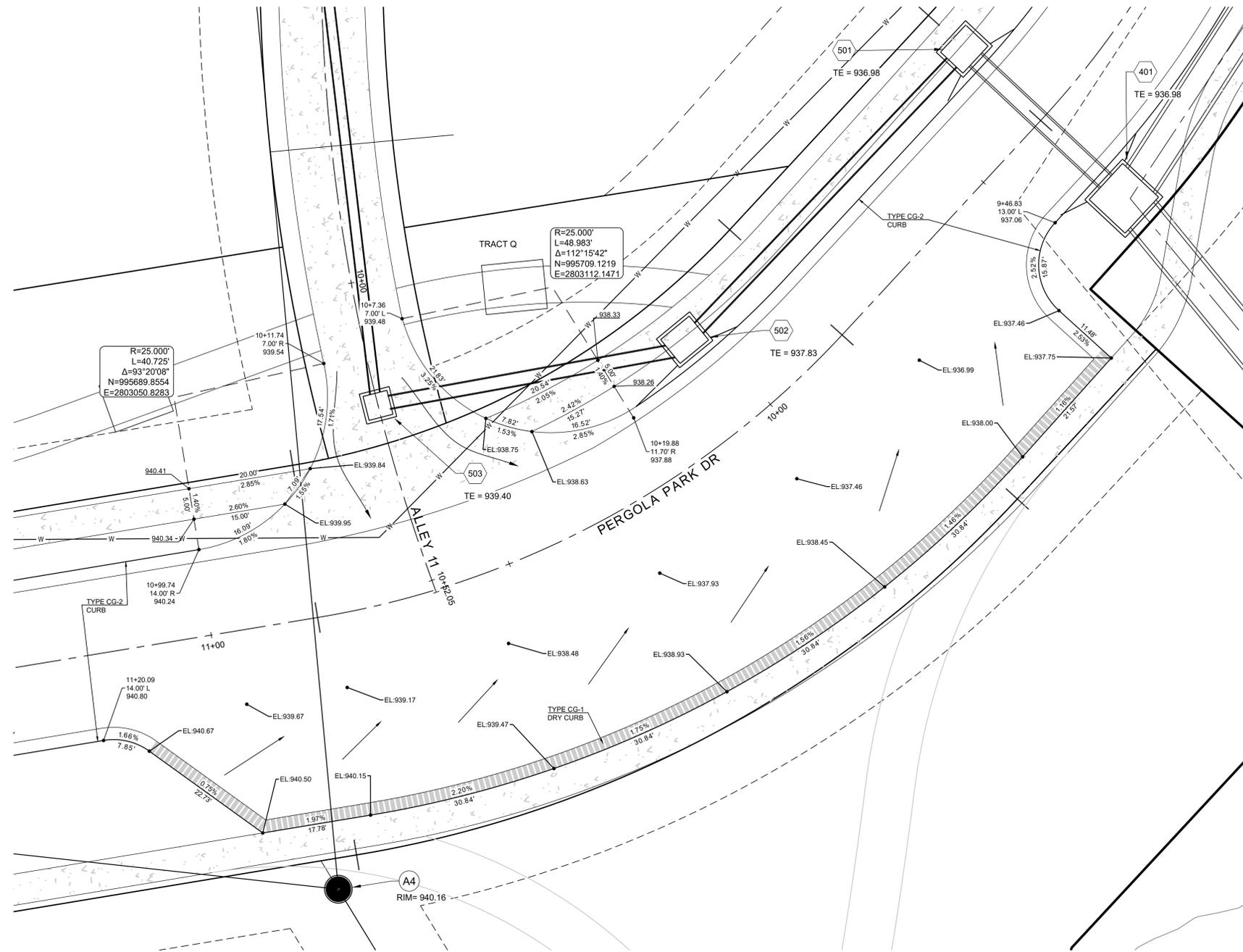
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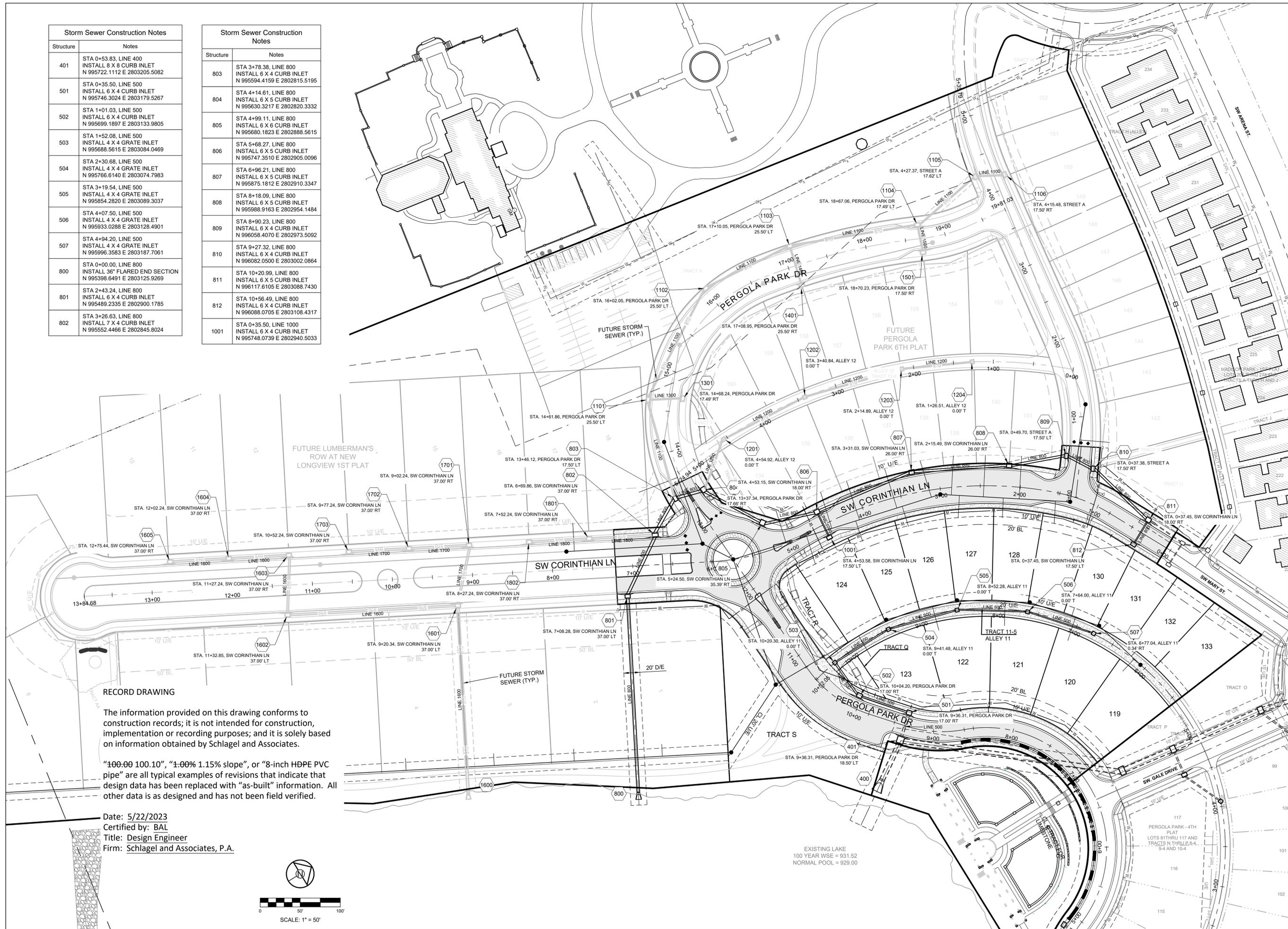
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0 10' 20'
 SCALE: 1" = 10'

Structure	Notes
401	STA 0+53.83, LINE 400 INSTALL 8 X 8 CURB INLET N 995722.1112 E 2803205.5082
501	STA 0+35.50, LINE 500 INSTALL 6 X 4 CURB INLET N 995746.3024 E 2803179.5267
502	STA 1+01.03, LINE 500 INSTALL 6 X 4 CURB INLET N 995699.1897 E 2803133.9805
503	STA 1+52.08, LINE 500 INSTALL 4 X 4 GRATE INLET N 995688.5615 E 2803084.0469
504	STA 2+30.68, LINE 500 INSTALL 4 X 4 GRATE INLET N 995766.6140 E 2803074.7983
505	STA 3+19.54, LINE 500 INSTALL 4 X 4 GRATE INLET N 995854.2820 E 2803089.3037
506	STA 4+07.50, LINE 500 INSTALL 4 X 4 GRATE INLET N 995933.0288 E 2803128.4901
507	STA 4+94.20, LINE 500 INSTALL 4 X 4 GRATE INLET N 995996.3583 E 2803187.7061
800	STA 0+00.00, LINE 800 INSTALL 36" FLARED END SECTION N 995398.6491 E 2803125.9269
801	STA 2+43.24, LINE 800 INSTALL 6 X 4 CURB INLET N 995489.2335 E 2802900.1785
802	STA 3+26.63, LINE 800 INSTALL 7 X 4 CURB INLET N 995552.4466 E 2802845.8024

Structure	Notes
803	STA 3+78.38, LINE 800 INSTALL 6 X 4 CURB INLET N 995594.4159 E 2802815.5195
804	STA 4+14.61, LINE 800 INSTALL 6 X 5 CURB INLET N 995630.3217 E 2802820.3332
805	STA 4+99.11, LINE 800 INSTALL 6 X 6 CURB INLET N 995680.1823 E 2802888.5615
806	STA 5+68.27, LINE 800 INSTALL 6 X 5 CURB INLET N 995747.3510 E 2802905.0096
807	STA 6+96.21, LINE 800 INSTALL 6 X 5 CURB INLET N 995875.1812 E 2802910.3347
808	STA 8+18.09, LINE 800 INSTALL 6 X 5 CURB INLET N 995988.9163 E 2802954.1484
809	STA 8+90.23, LINE 800 INSTALL 6 X 4 CURB INLET N 996058.4070 E 2802973.5092
810	STA 9+27.32, LINE 800 INSTALL 6 X 4 CURB INLET N 996082.0500 E 2803002.0864
811	STA 10+20.99, LINE 800 INSTALL 6 X 5 CURB INLET N 996117.6105 E 2803088.7430
812	STA 10+56.49, LINE 800 INSTALL 6 X 4 CURB INLET N 996088.0705 E 2803108.4317
1001	STA 0+35.50, LINE 1000 INSTALL 6 X 4 CURB INLET N 995748.0739 E 2802940.5033



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PREPARED BY:

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REVISION DATE	DESCRIPTION
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DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
BAL	MAB	11-8-2021	20-189

STORM PLAN
SHEET
19

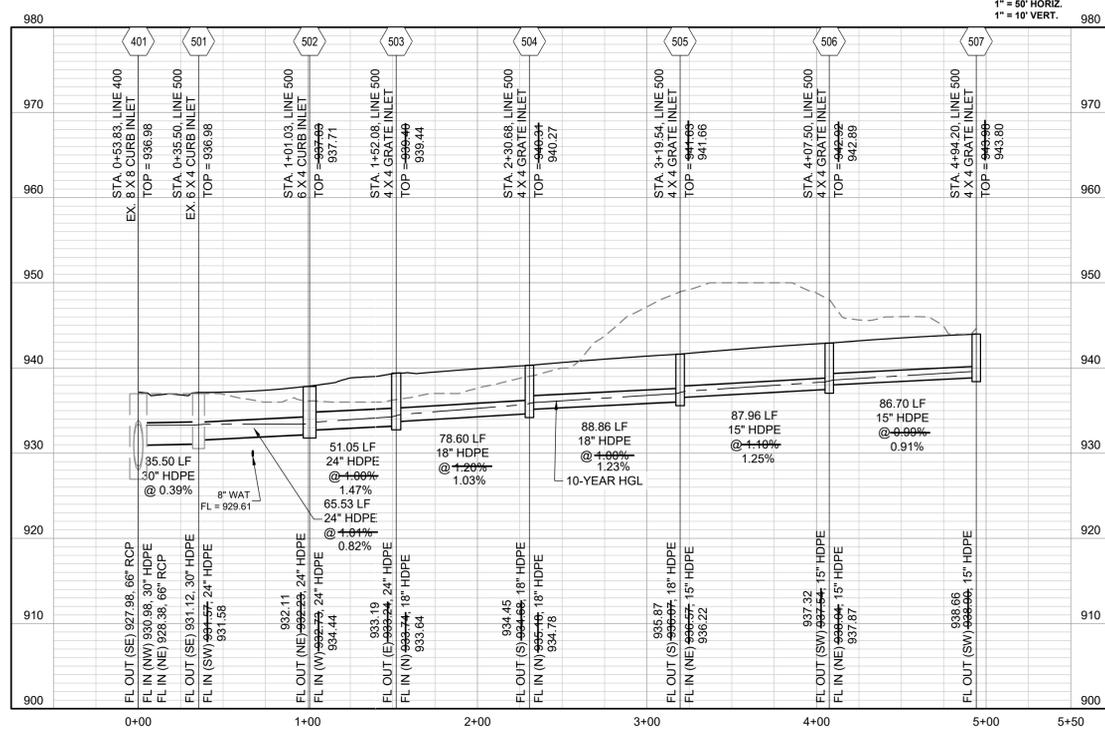
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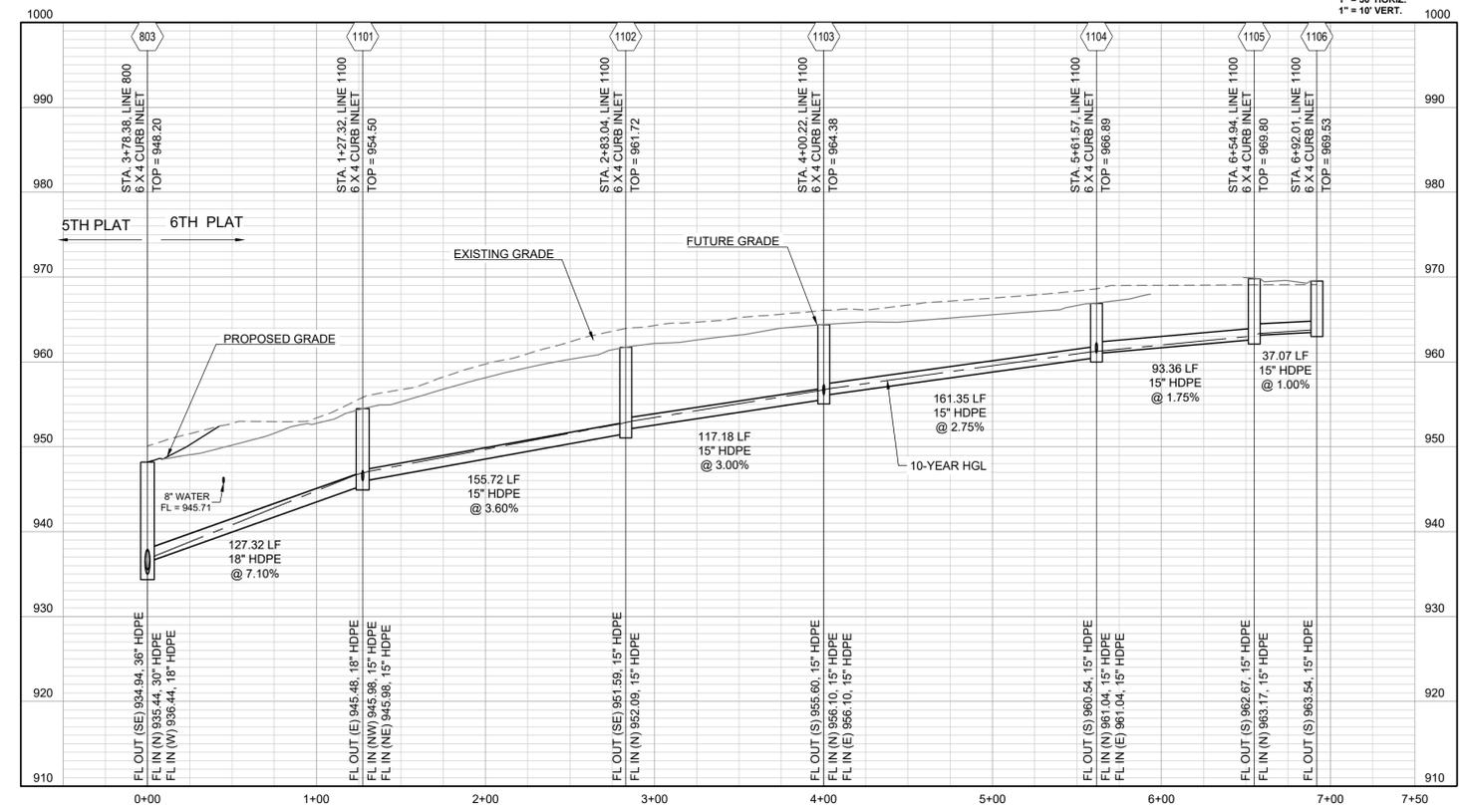
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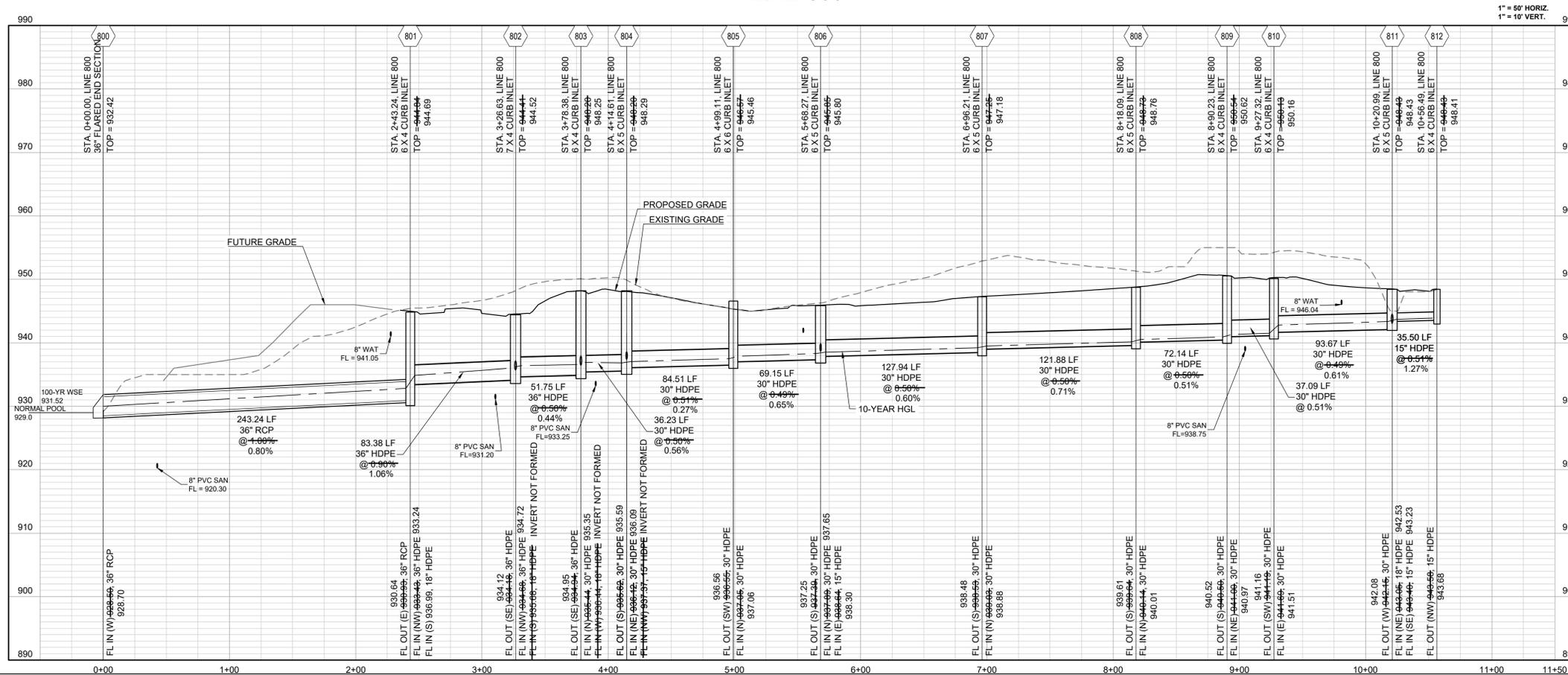
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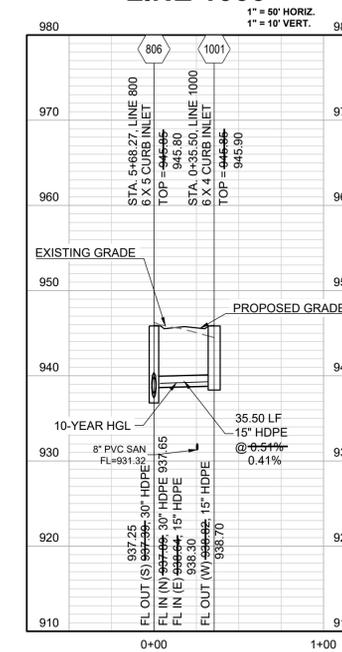
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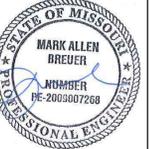
LINE 800



LINE 1000



PREPARED BY:



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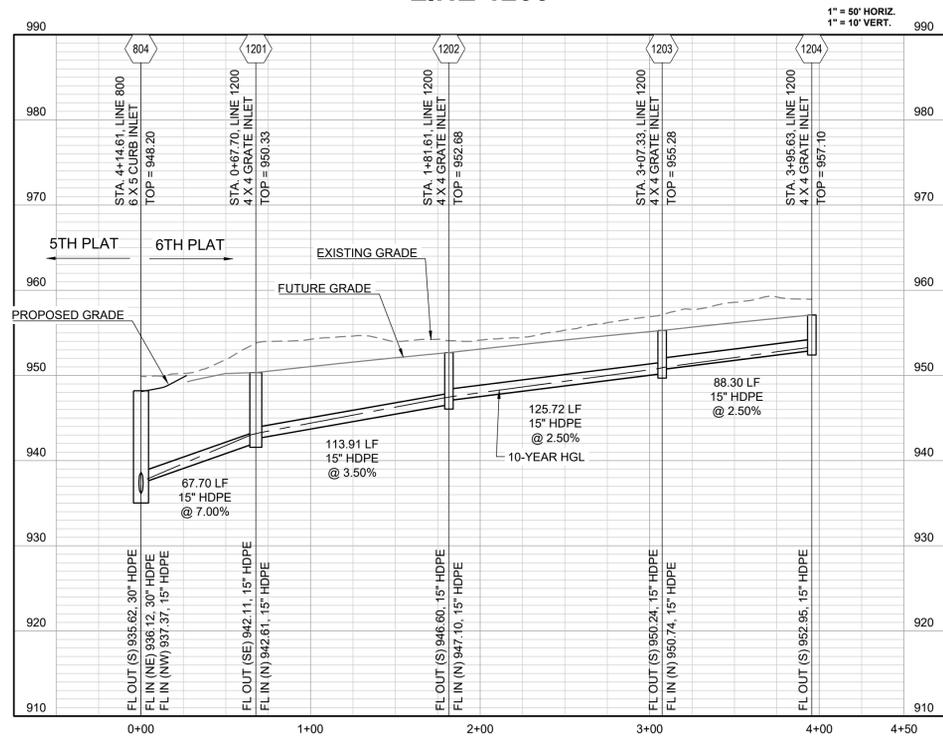
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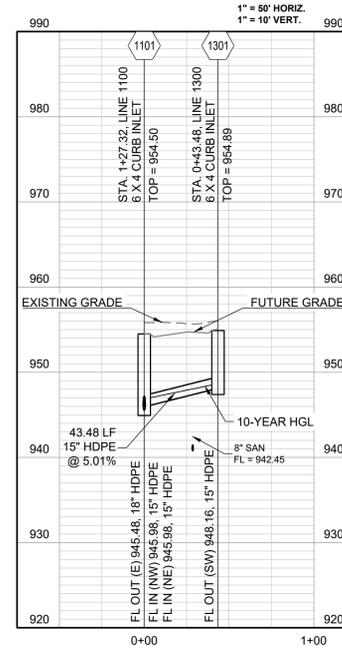
STORM PROFILES

SHEET
 20

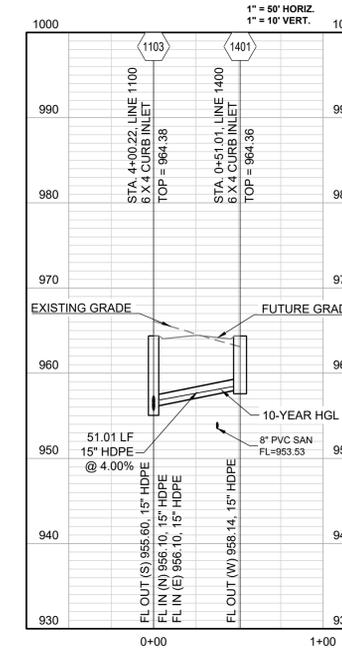
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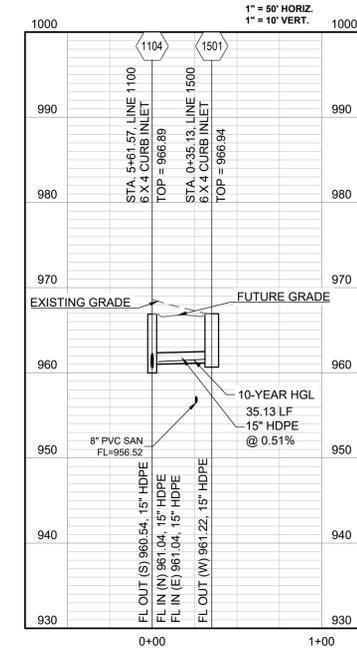
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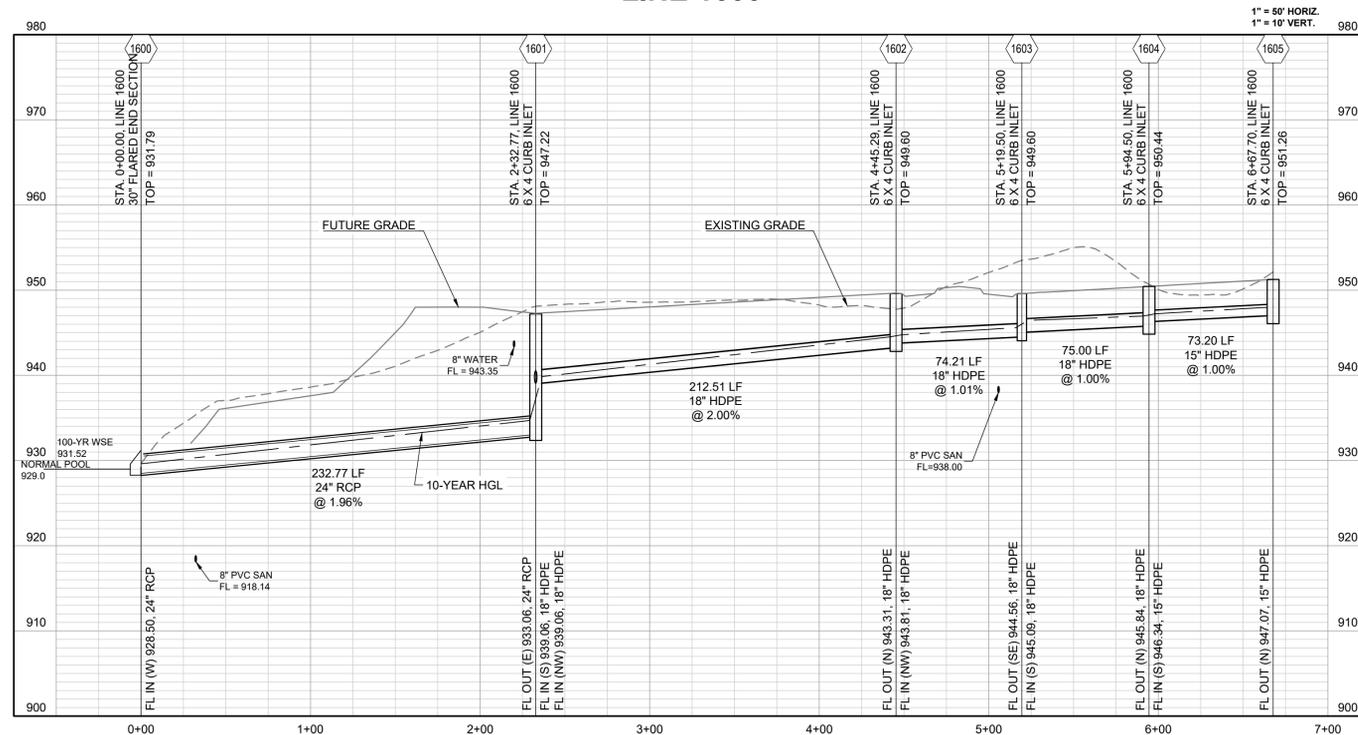
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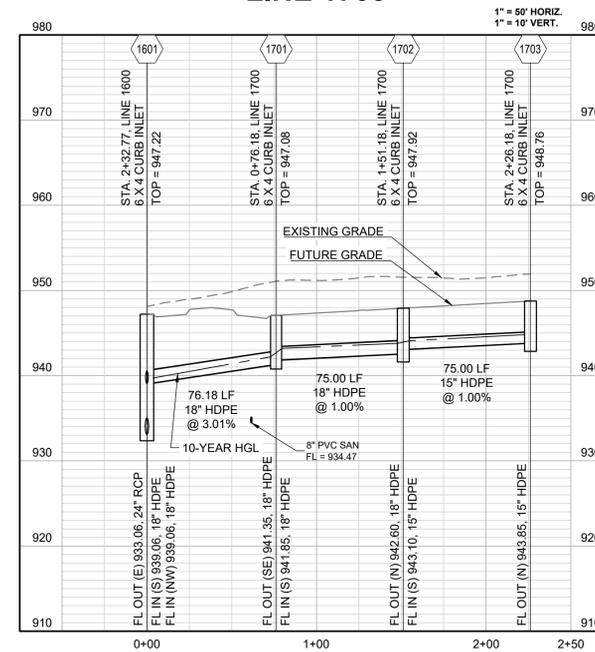
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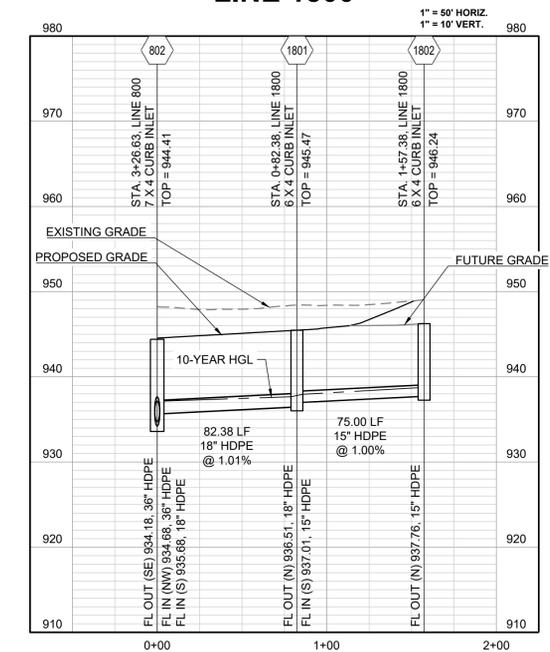
LINE 1600



LINE 1700



LINE 1800



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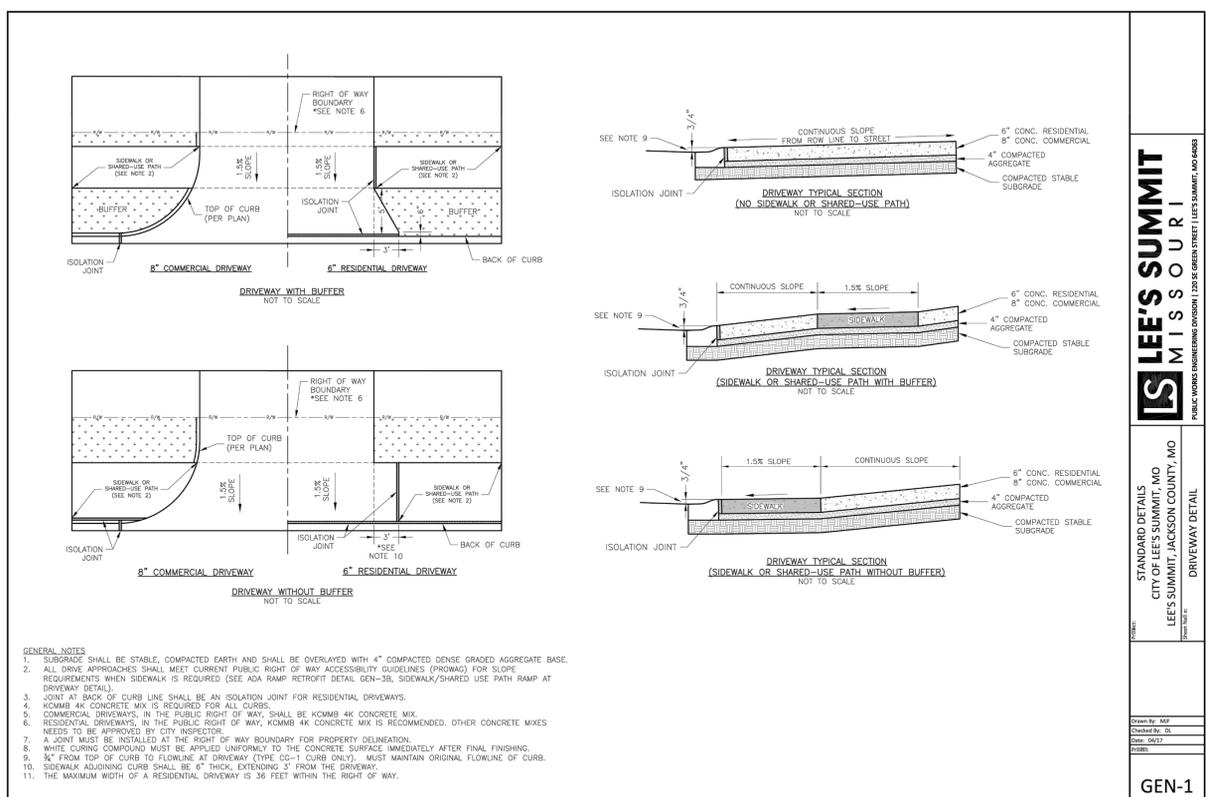
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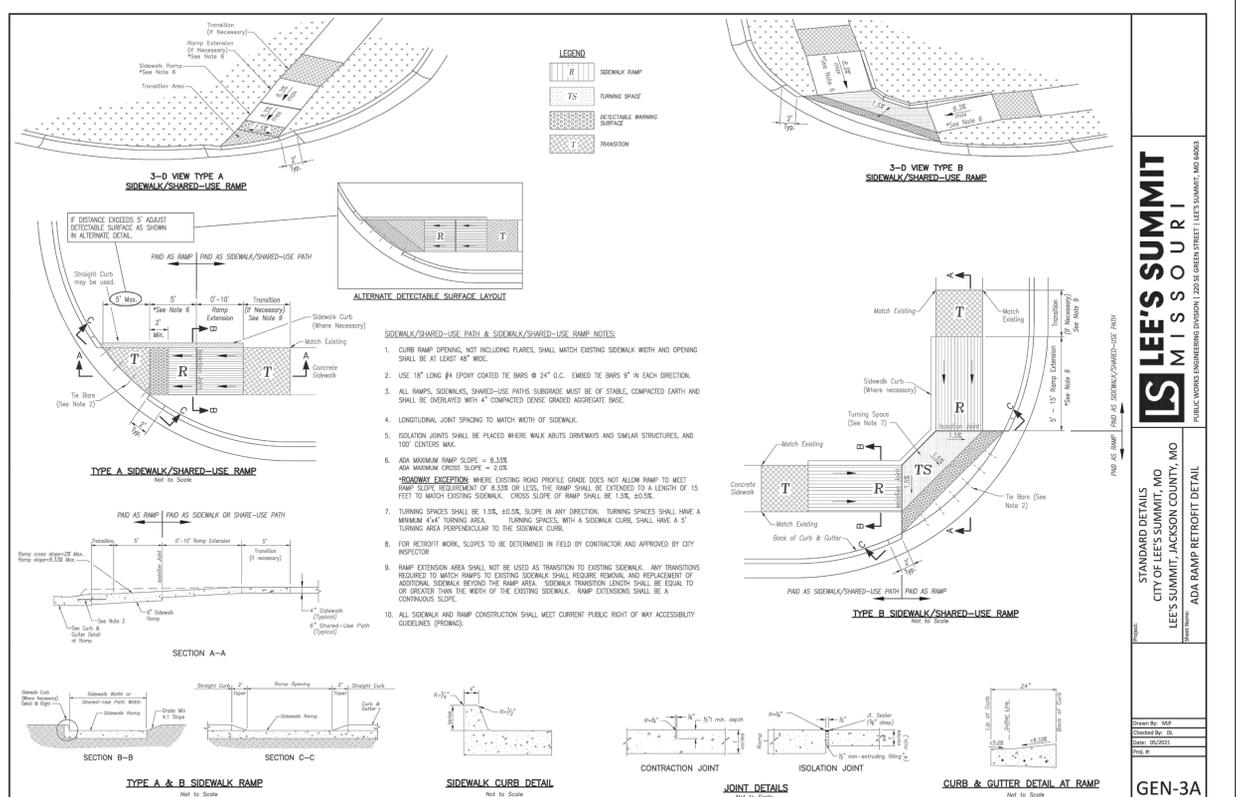
STORM PROFILES CONT

SHEET



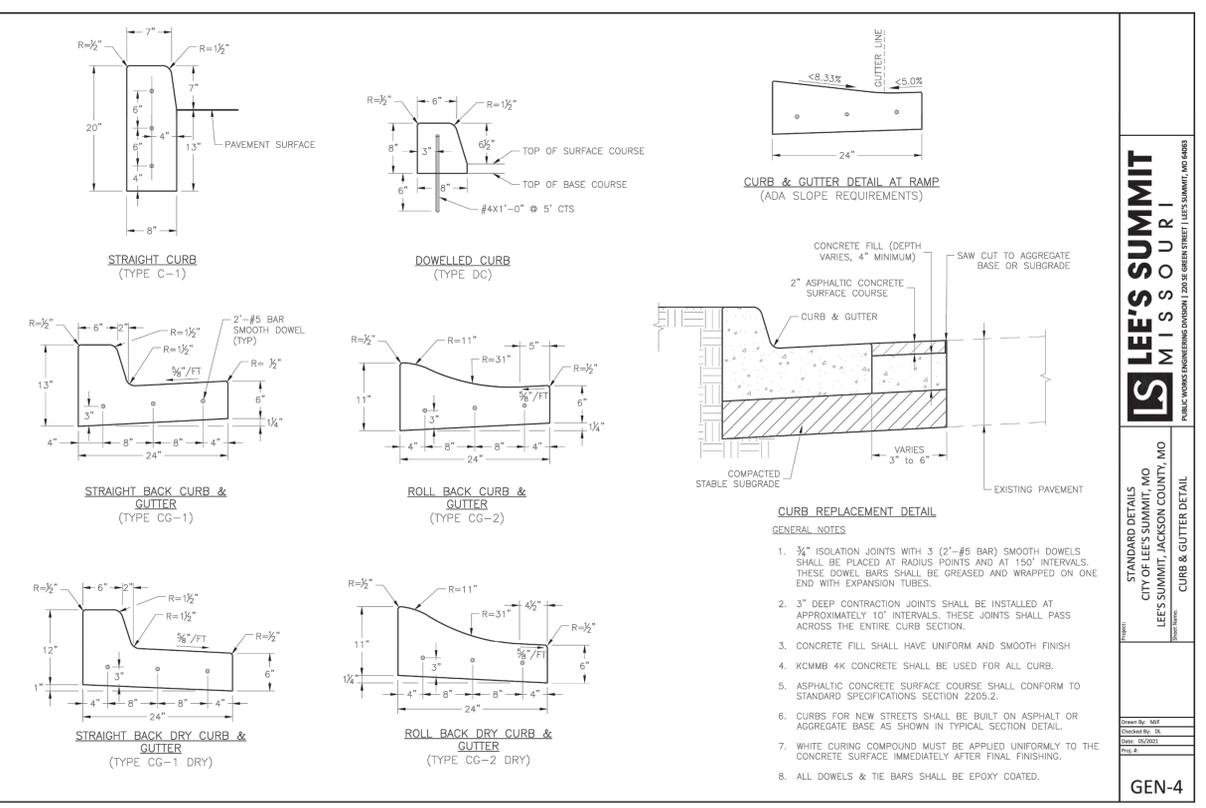
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 1201 S. GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
DRIVEWAY DETAIL
GEN-1



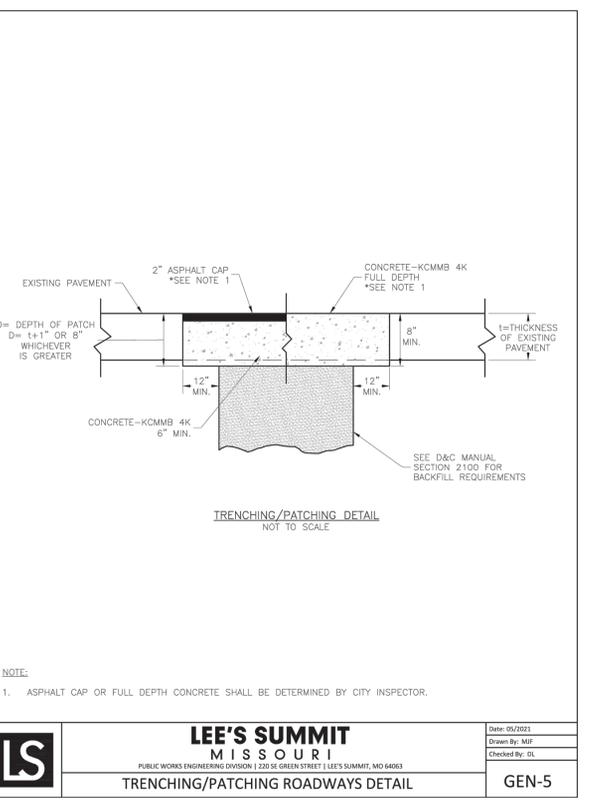
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 1201 S. GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL
GEN-3A



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STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL
GEN-4



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TRENCHING/PATCHING ROADWAYS DETAIL
GEN-5

RECORD DRAWING

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Certified by: BAL
Title: Design Engineer
Firm: Schlager and Associates, P.A.

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PREPARED BY:
MARK ALLEN BREUER
MEMBER
PROFESSIONAL ENGINEER
NO. 2003007268

05.23.2023
SCHLAGEL & ASSOCIATES, P.A.

PERGOLA PARK 5TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN & EROSION AND SEDIMENT CONTROL
- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

DRAWN BY: BAL
CHECKED BY: MAB
DATE PREPARED: 11-18-2021
PROJ. NUMBER: 20-189

STREET DETAIL SHEET

SHEET
22

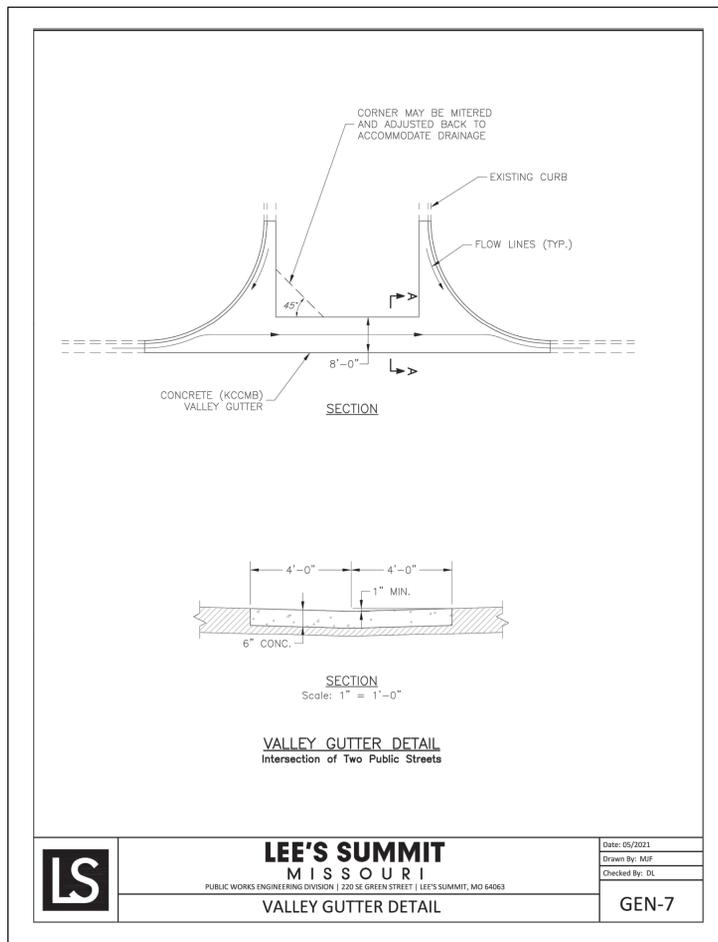


TABLE LS-2: MINIMUM ASPHALT PAVEMENT THICKNESSES

Street Classification	Pavement Option	AC Surface (in.)	AC Base (in.)	MoDOT Type 5 Base (in.)	Geogrid(1)	Chemical Subgrade Stabilization(2) (in.)
Residential Local/Access	A	2	4	6	--	6
	B	2	4	10	Geogrid	--
Residential Collector	A	2	5.5	6	--	9
	B	2	5.5	12	Geogrid	--
Commercial Industrial Local/Collector	A	2	7.5	6	--	9
	B	2	7.5	12	Geogrid	--

TABLE LS-3: MINIMUM PCC PAVEMENT THICKNESSES

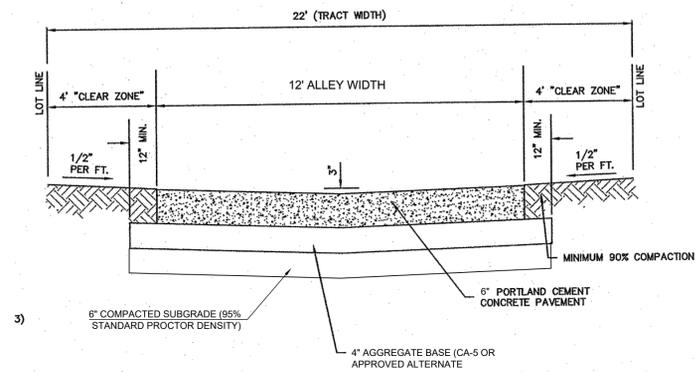
Street Classification	PCC (in.)	Aggregate Base (in.)	Subgrade Stabilization(1) (in.)
Residential Local/Access	6	4	--
Residential Collector	6	4	6
Commercial Industrial Local/Collector	8	4	9

(1) Subgrade Stabilization and 4" aggregate base may be replaced by approved geogrid and 6" of aggregate base

LS5200

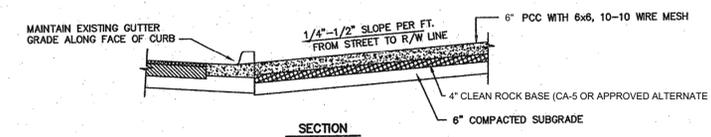
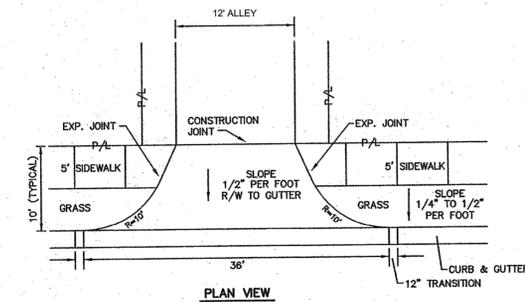
16

October 2016



TYPICAL ALLEY SECTION

- NOTES
- COMPACTION JOINTS TO BE SAWS AT INTERVALS OF 20 FEET MAXIMUM. JOINTS SHALL BE FILLED WITH BITUMINOUS COMPOUND IMMEDIATELY FOLLOWING SAWING.
 - DOWELED EXPANSION JOINTS SHALL BE LOCATED EVERY 100 FEET MAXIMUM.
 - REINFORCE CONCRETE WITH 6x6x6 WOVEN WIRE MESH.
 - USE ADDITIONAL REINFORCEMENT AROUND DRAINAGE STRUCTURES AS NECESSARY.



ALLEY APRON

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Firm: Schlager and Associates, P.A.

PREPARED BY:



05.23.2023

SCHLAGEL & ASSOCIATES, P.A.

PERGOLA PARK 5TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN & EROSION AND SEDIMENT CONTROL
- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	STREET TIE INS
11-9-22	AS-BUILTS
5-22-23	AS-BUILTS

DRAWN BY: BAL
CHECKED BY: MAB
DATE PREPARED: 11-8-2021
PROJ. NUMBER: 20-189

STREET DETAIL
SHEET CONT

SHEET
23

PREPARED BY:



05.23.2023

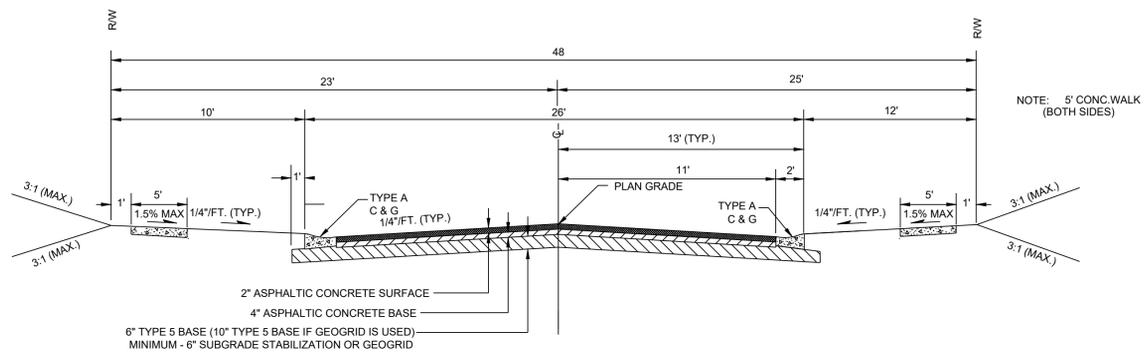
SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**

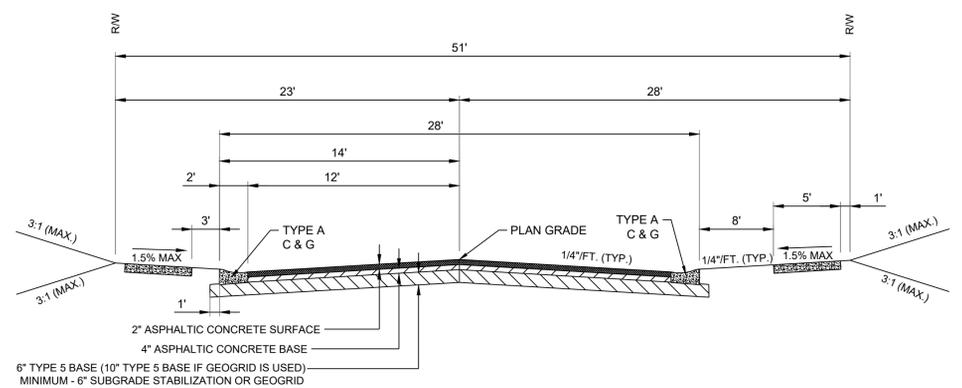
REVISION DATE	DESCRIPTION
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11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

STREET DETAIL SHEET

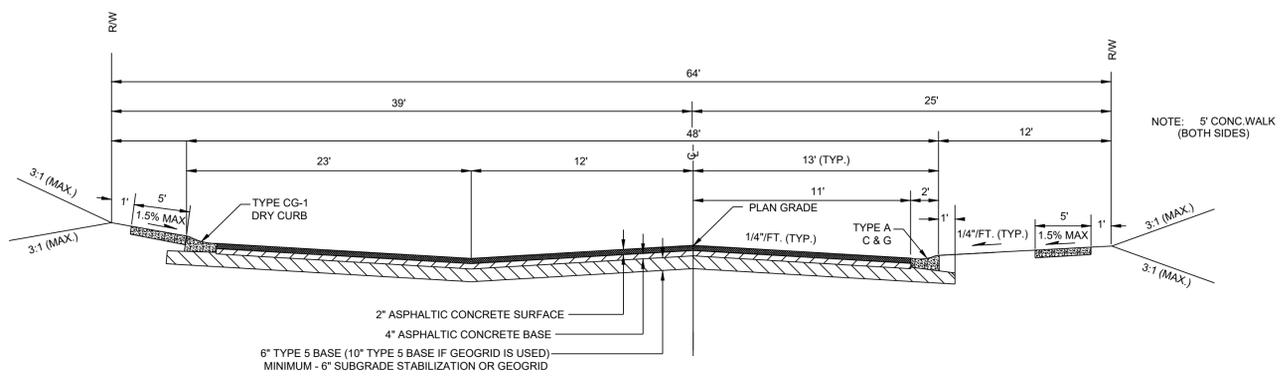
SHEET
24



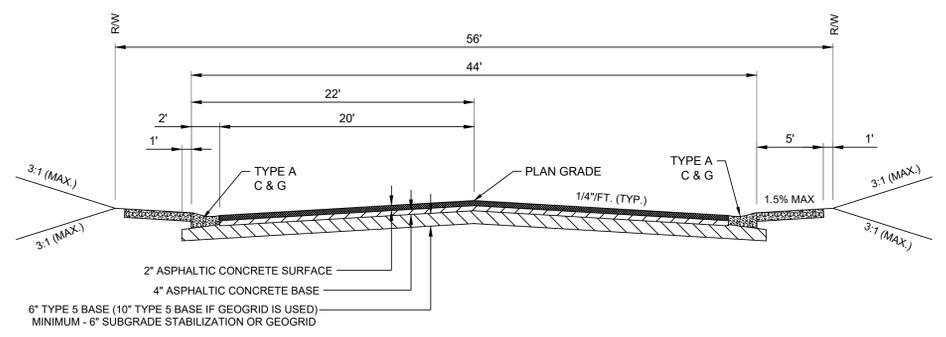
PERGOLA PARK DR 26' B/B STA. 6+97 TO 9+57
NTS



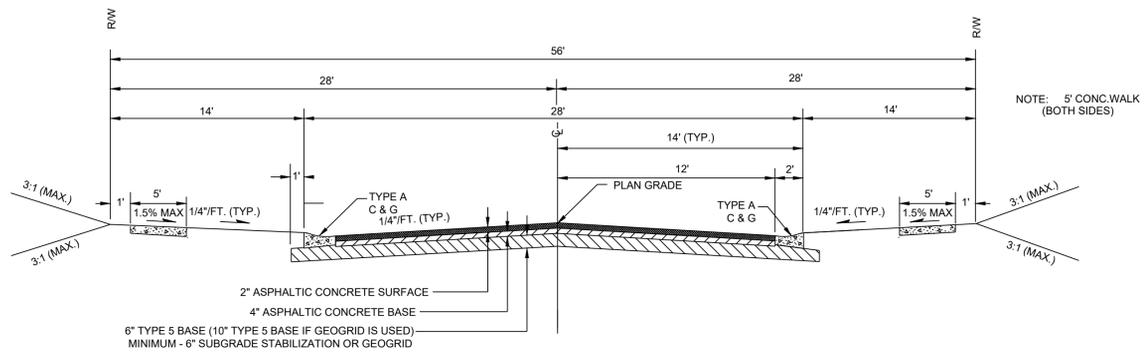
BLUE RIBBON 28' B/B STA. 0+00 TO 0+67
NTS



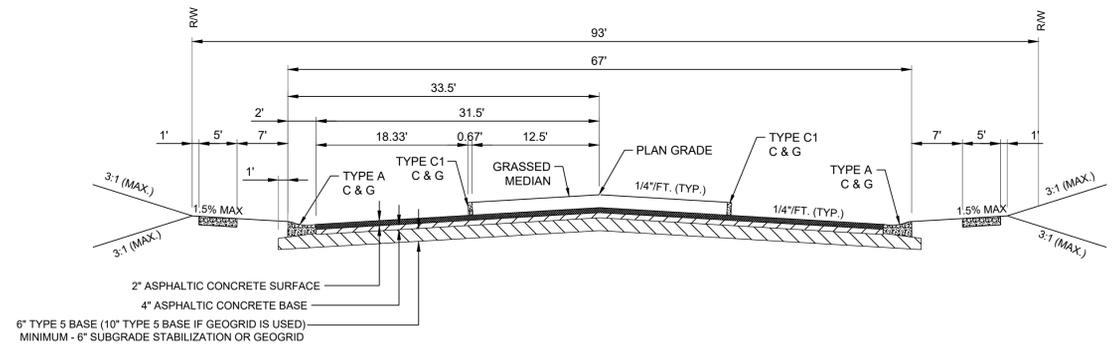
PERGOLA PARK DR PERPENDICULAR PARKING STA. 9+57 TO 10+97
NTS



BLUE RIBBON PARALLEL PARKING BOTH SIDES STA. 1+65 TO 4+40
NTS



BLUE RIBBON LN 28' B/B STA. 4+40 TO 4+75
NTS



BLUE RIBBON DIVIDED STREET STA. 6+30 TO 7+21
NTS

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PREPARED BY:



05.23.2023

SCHLAGEL & ASSOCIATES, P.A.

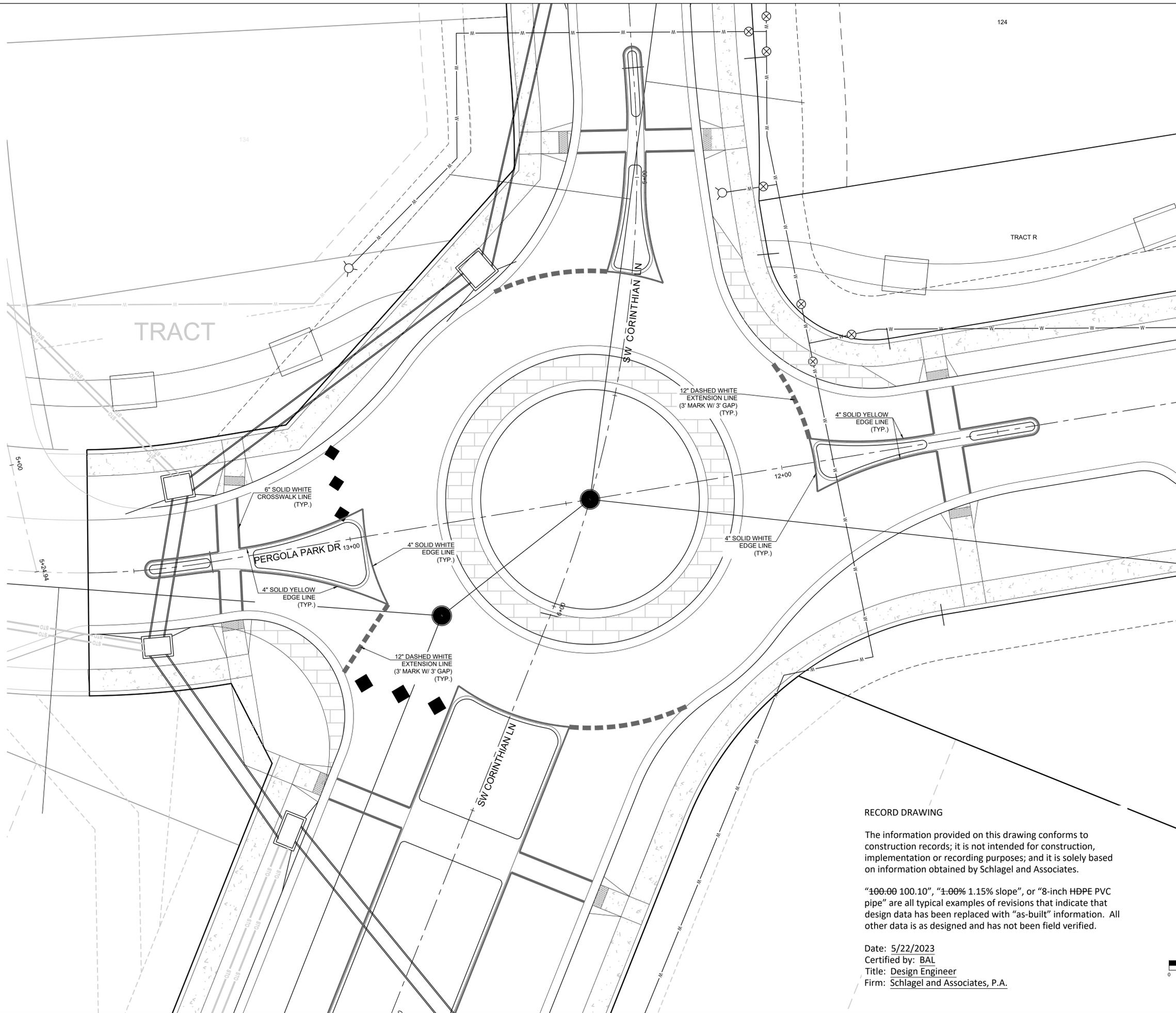
**PERGOLA PARK 5TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL**
 - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

ROUNDABOUT
 PAVEMENT
 MARKING

SHEET

26

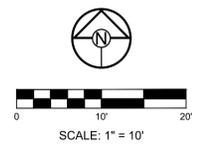


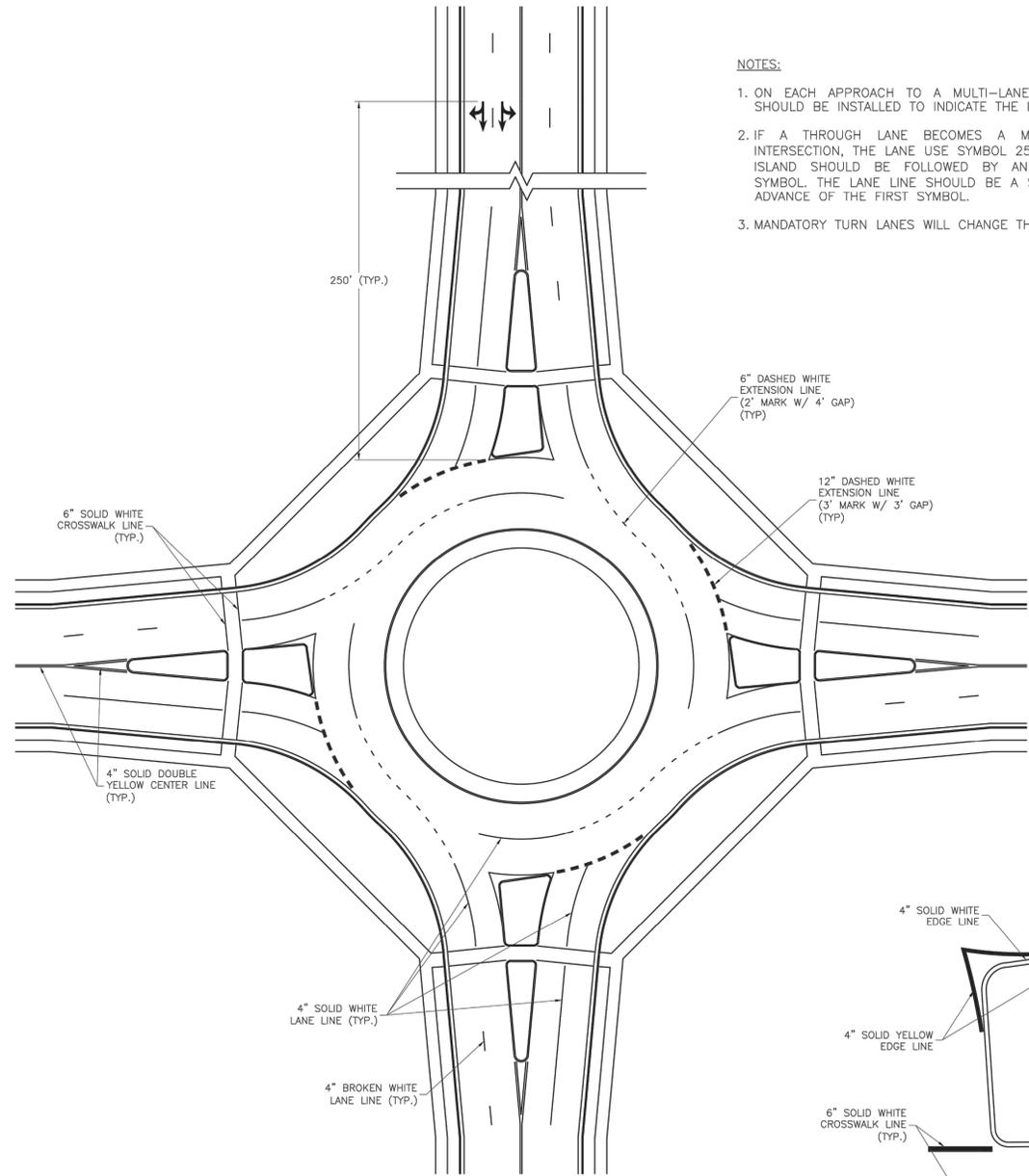
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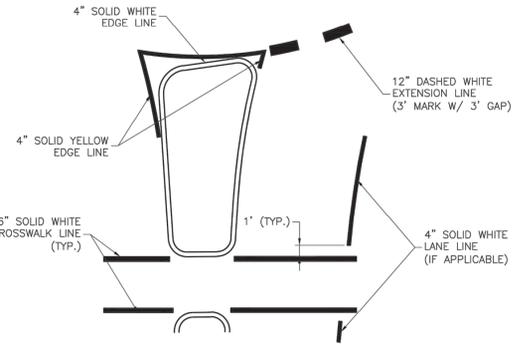
Date: 5/22/2023
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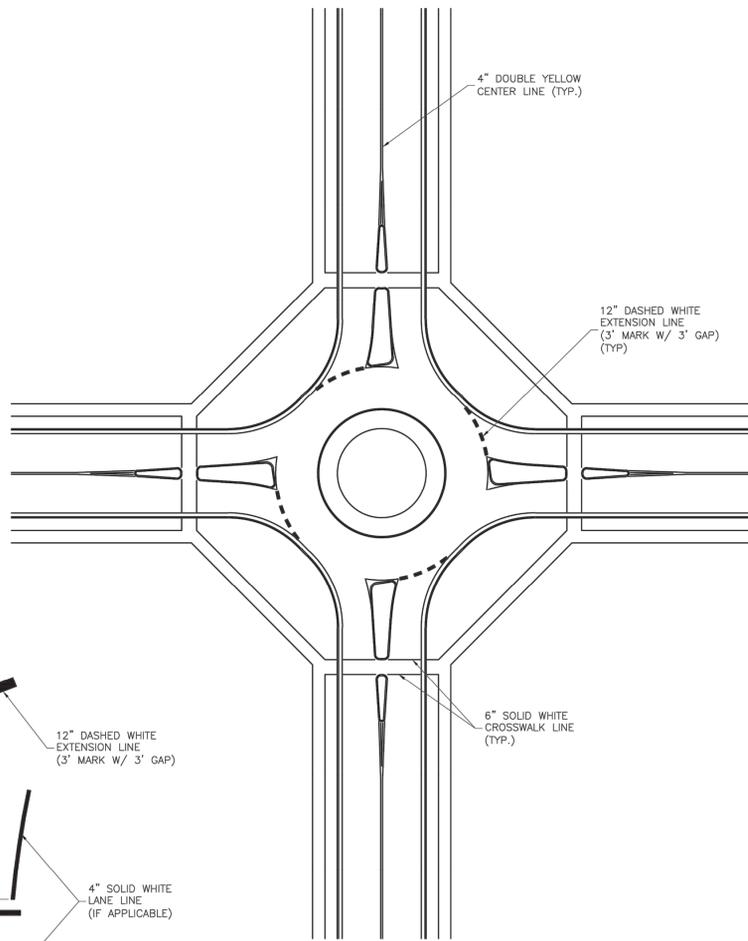


TYPICAL MULTI-LANE ROUNDABOUT MARKINGS

- NOTES:
- ON EACH APPROACH TO A MULTI-LANE ROUNDABOUT, PAVEMENT MARKING SYMBOLS SHOULD BE INSTALLED TO INDICATE THE LANE USE CONFIGURATION.
 - IF A THROUGH LANE BECOMES A MANDATORY TURN LANE AT A ROUNDABOUT INTERSECTION, THE LANE USE SYMBOL 250' IN ADVANCE OF THE END OF THE SPLITTER ISLAND SHOULD BE FOLLOWED BY AN "ONLY" SYMBOL AND ANOTHER LANE USE SYMBOL. THE LANE LINE SHOULD BE A SOLID WHITE LINE FOR A DISTANCE OF 10' IN ADVANCE OF THE FIRST SYMBOL.
 - MANDATORY TURN LANES WILL CHANGE THE MARKINGS WITHIN THE CIRCULAR ROADWAY.



TYPICAL SPLITTER ISLAND DETAIL



TYPICAL SINGLE LANE ROUNDABOUT MARKINGS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: ROUNDABOUT MARKING DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

PM-3

RECORD DRAWING

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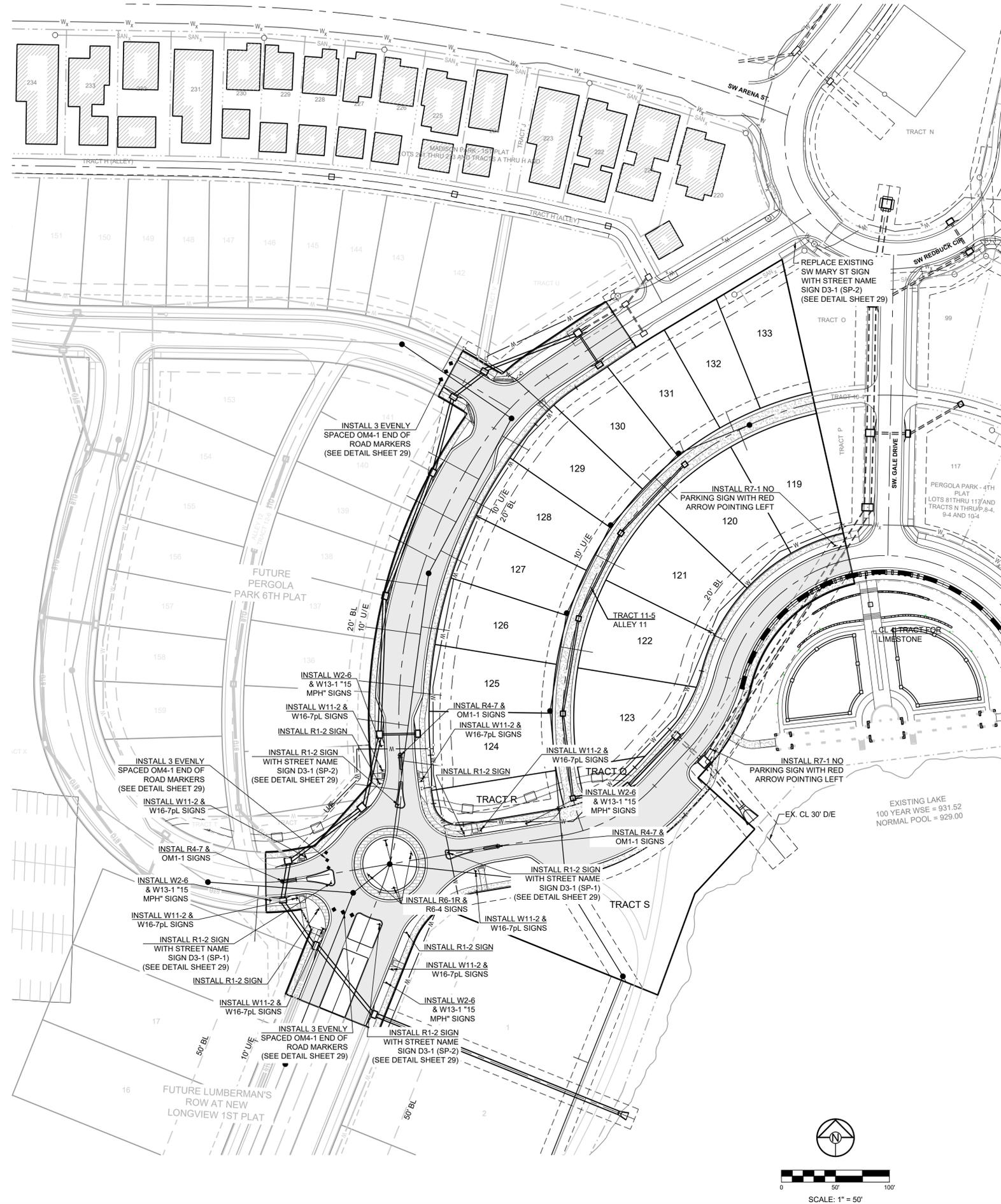
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Certified by: BAL
Title: Design Engineer
Firm: Schlager and Associates, P.A.

PERGOLA PARK 5TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
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- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
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PAVEMENT MARKING DETAIL



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 Title: Design Engineer
 Firm: Schlager and Associates, P.A.

PREPARED BY:



05.23.2023

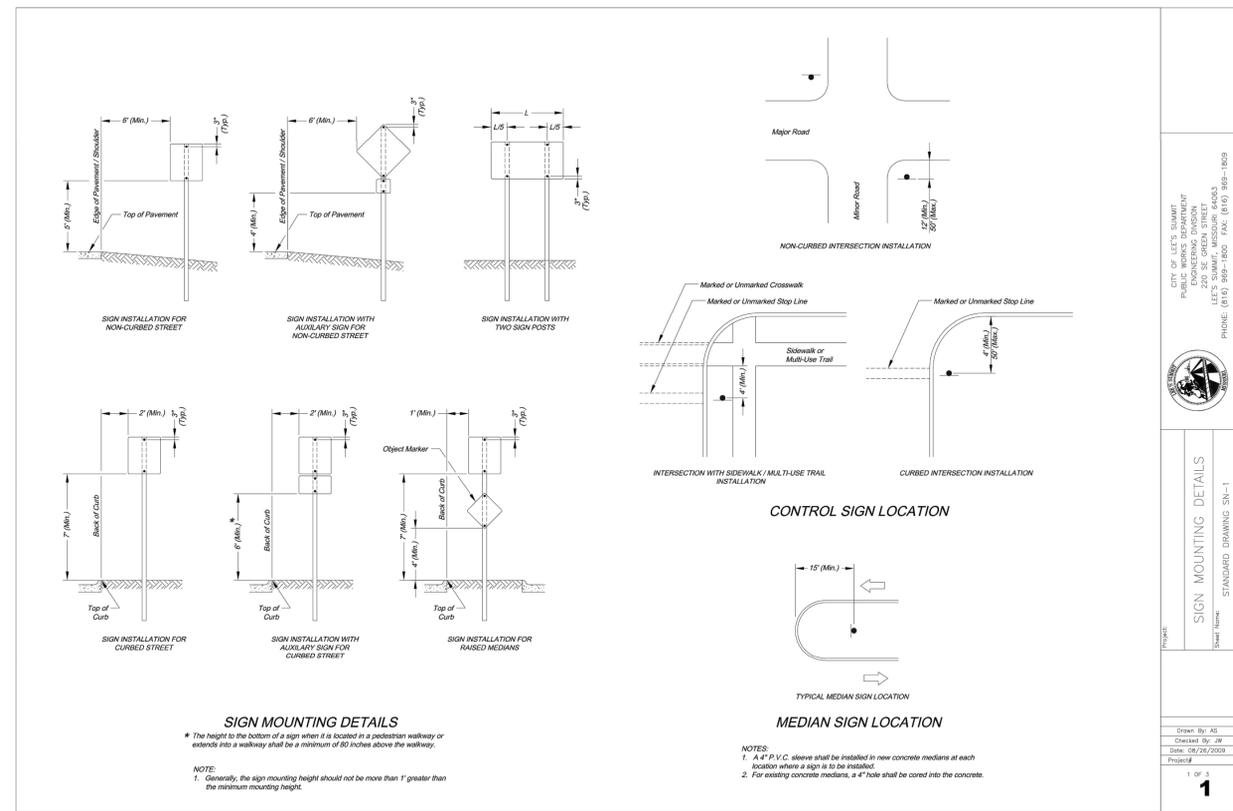
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**PERGOLA PARK 5TH PLAT
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 PLAN & EROSION AND SEDIMENT CONTROL
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2-4-22	CITY COMMENTS
3-30-22	CITY COMMENTS
11-9-22	STREET TIE INS
5-22-23	AS-BUILTS

STREET SIGN PLAN

SHEET
28

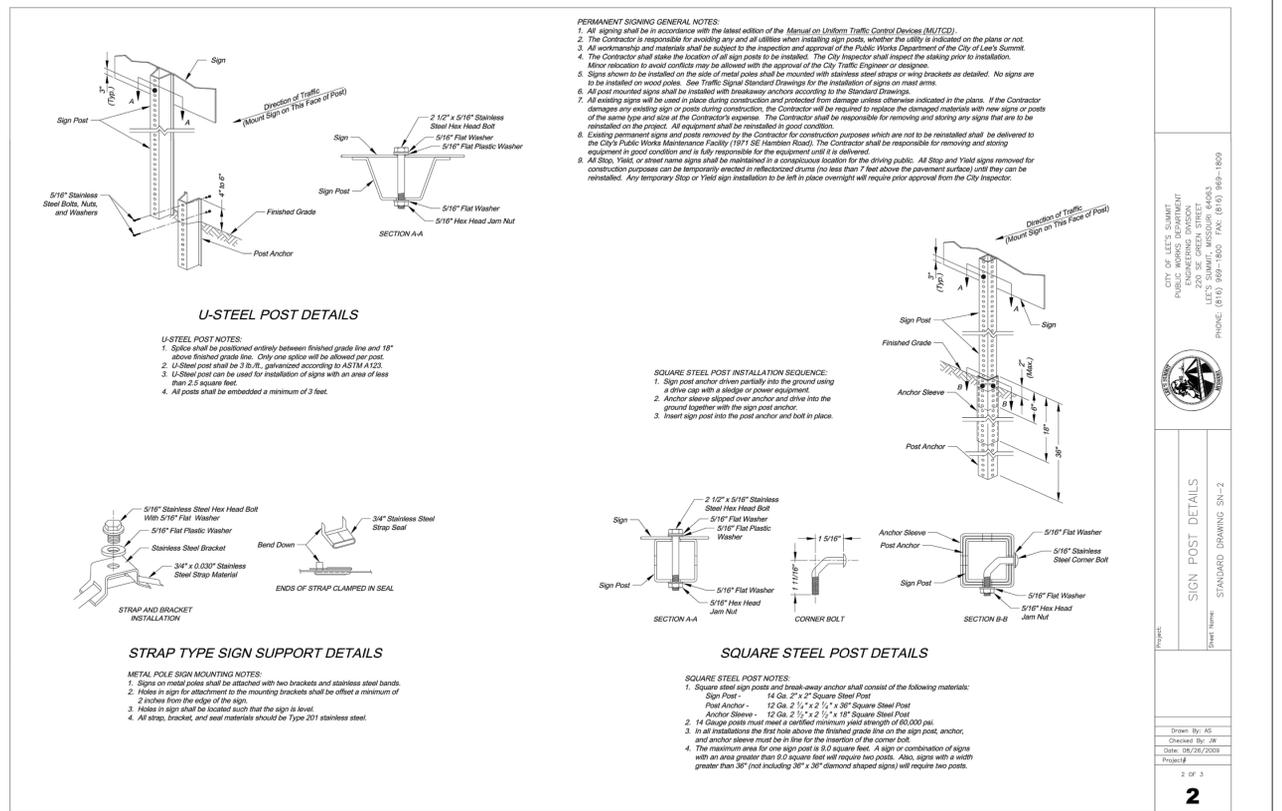


CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
LEE'S SUMMIT, MISSOURI 64003
PHONE: (816) 389-1800 FAX: (816) 389-1809

SIGN MOUNTING DETAILS
STANDARD DRAWING SN-1

Drawn By: AS
Checked By: AS
Date: 07/26/2009
Project#

1 OF 3

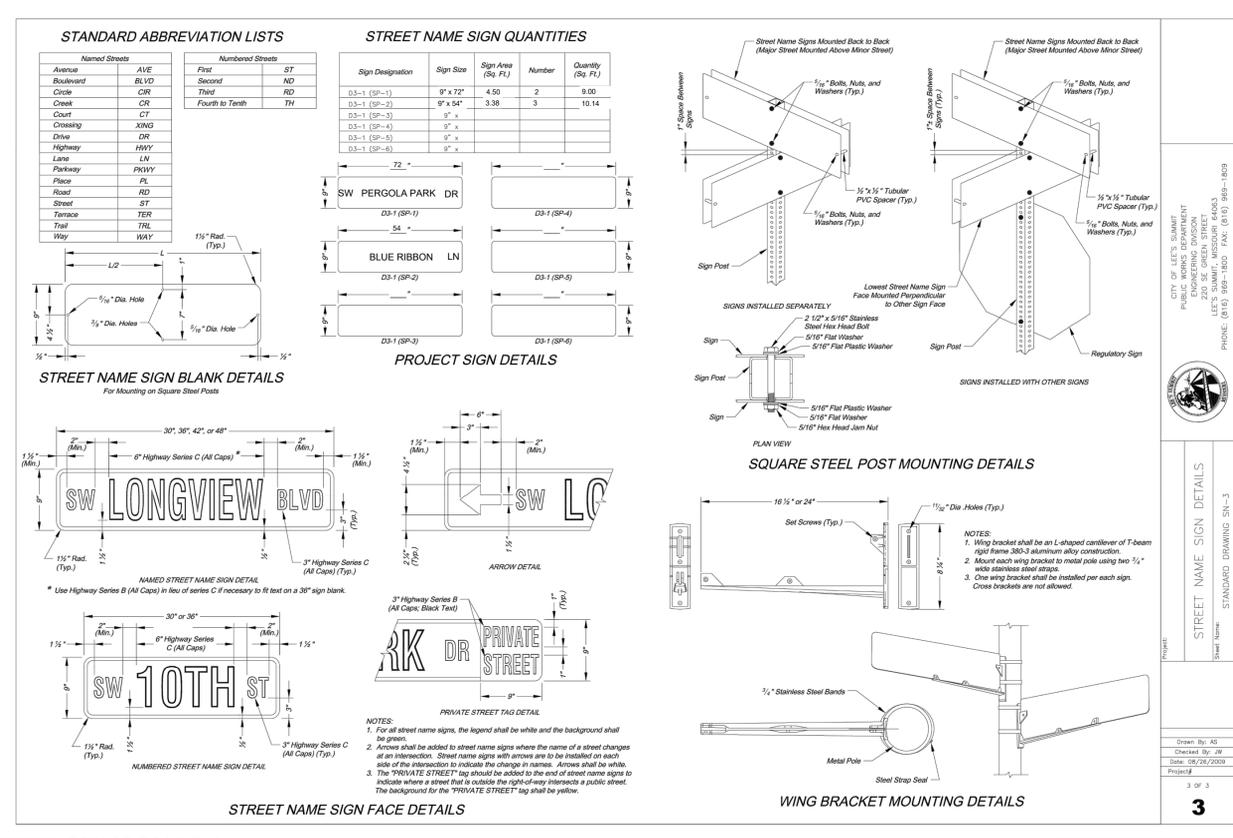


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SIGN POST DETAILS
STANDARD DRAWING SN-2

Drawn By: AS
Checked By: AS
Date: 07/26/2009
Project#

2 OF 3



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PUBLIC WORKS DEPARTMENT
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STREET NAME SIGN DETAILS
STANDARD DRAWING SN-3

Drawn By: AS
Checked By: AS
Date: 07/26/2009
Project#

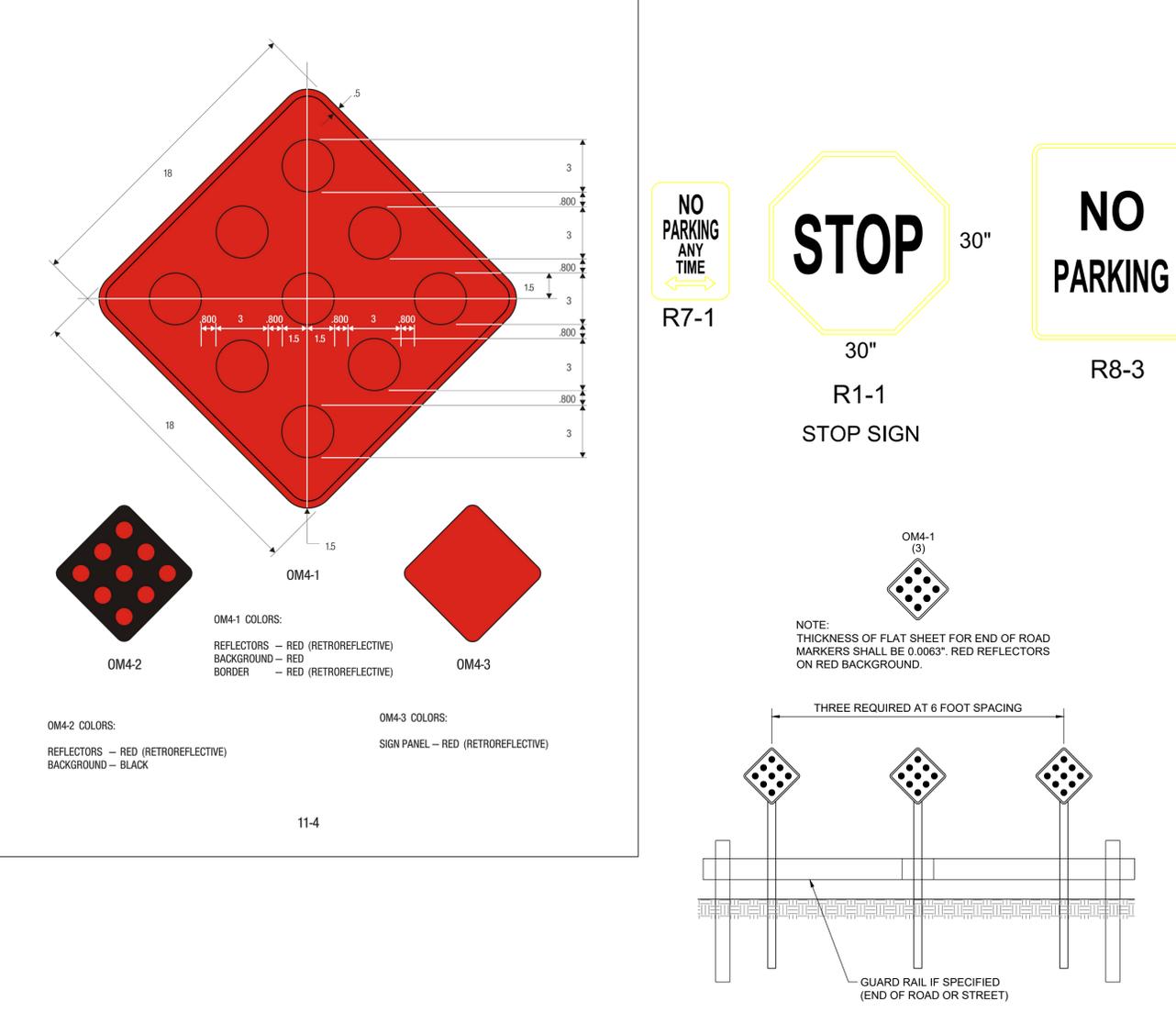
3 OF 3

RECORD DRAWING

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Missouri State Certificate of Authority #E200200360P #LAC200100237 #LS200200859F

PREPARED BY:
MARK ALLEN BREUER
REGISTERED PROFESSIONAL ENGINEER
NUMBER NE-2003007268
05.23.2023

SCHLAGEL & ASSOCIATES, P.A.

**PERGOLA PARK 5TH PLAT
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DRAWN BY: BAL
CHECKED BY: MAB
DATE PREPARED: 11-8-2021
PROJ. NUMBER: 20-189

STREET SIGN DETAILS

SHEET **29**