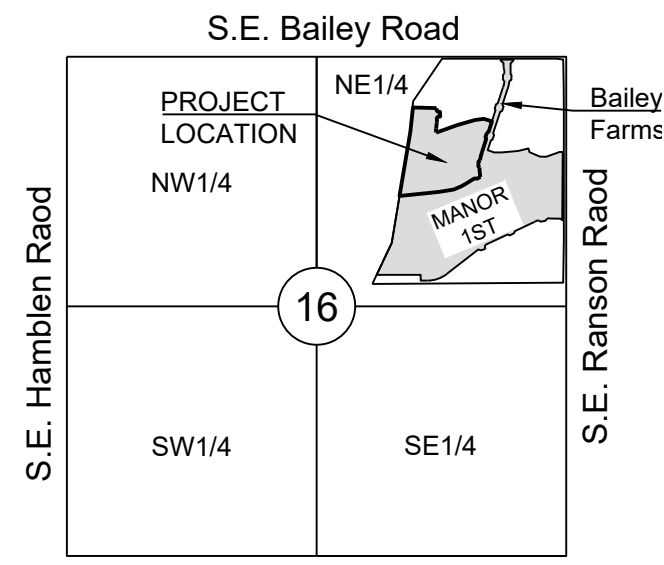


LEGEND:

- 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 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.
- STORM SEWER
- STORM SEWER - EXISTING
- CABLE TV - EXISTING
- FIBER OPTIC CABLE - EXISTING
- TELEPHONE LINE - EXIST.
- ELECTRIC LINE - EXISTING
- OVERHEAD POWER LINE - EXIST.
- UNDERGROUND ELECTRIC - EX.
- GAS LINE - EXISTING
- 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



LOCATION MAP
SCALE 1" = 2000'
BASIS OF BEARINGS:
MISSOURI COORDINATE
SYSTEM 1983,
WEST ZONE

UTILITY CONTACTS:

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)
Steve Holloway
600 NE Colbern Road
Lee's Summit, MO 64086
(816) 399-2186

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

KANSAS CITY POWER & LIGHT COMPANY (KCP&L)
Ron Dejamette
1300 SE Hamblin Road
Lee's Summit, MO 64081
Office: (816) 347-4316
Cell: (816) 810-5234
ron.dejamette@kcpcl.com

CITY OF LEES SUMMIT PUBLIC WORKS
Dena Mezger
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 Schaffer
1200 SE Hamblen Road
Lee's Summit, MO 64081
(816) 969-1900

STREET, STORMWATER, AND MASTER DRAINAGE PLAN

FOR CORNERSTONE AT BAILEY FARMS, FIRST PLAT

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

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

12/14/2023

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL LAYOUT
3	MASTER DRAINAGE PLAN-GRADING PLAN
4	MASTER DRAINAGE PLAN - SWALE GRADING PLAN
5	SE CRONIN ST PLAN AND PROFILE
6	SE SILO ST PLAN AND PROFILE
7	SE WINDBREAK DR (WEST) AND ARBORETUM DR PLAN AND PROFILE
8	INTERSECTION DETAILS
9	MASTER DRAINAGE PLAN-DRAINAGE AREA MAP
10	MASTER DRAINAGE PLAN-DRAINAGE CALCULATIONS
11	STORM PLAN
12	STORM PROFILE 1
13	STORM PROFILE 2
14	DETENTION BASIN DESIGN
15	STREET DETAILS 1
16	STREET DETAILS 2
17	STORM DETAILS
18	STORM DETAILS 2
19	SIGNAGE PLAN
20	SIGN POST DETAILS
21	SIGN MOUNTING DETAILS
22	STREET NAME SIGN DETAILS
23	OM-4 SIGN DETAILS

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

APPROVED BY:

CITY ENGINEER _____ DATE _____
APPROVED FOR ONE YEAR FROM THIS DATE

OWNER/DEVELOPER:

CLAYTON PROPERTIES GROUP INC., DBA SUMMIT HOMES
BRADLEY KEMPF
120 SE 30TH STREET
LEE'S SUMMIT, MO 64082
p (816) 246-6700
BRADLEY@SUMMITHOMESKC.COM

PL2021487
PRSUBD20216450



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

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 PHASED 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 DEVELOPMENT SERVICES INSPECTIONS AT: 816-969-1200 TO OBTAIN A DEVELOPMENT SERVICES CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO PERMIT ISSUANCE.
- 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).

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 g.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 movable 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, 4% 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.

New City Requirements:

Flowable fill required per City specifications at all storm structures.

KCMMB Asphalt specification required for all lifts of street pavement. Fly ash is no longer an option for chemical stabilization. Other acceptable options are cement, lime.

SUMMARY OF QUANTITIES		
ITEM	QUANTITY	UNITS
1	CLEARING AND GRUBBING	1 LS
2	GRADING	1 LS
3	8" ASPHALT PAVEMENT - LOCAL-RESIDENTIAL STREET	5025 SY
4	FLY ASH OR COMPACTED AGGREGATE BASE	6150 SY
5	CURB AND GUTTER (INLET TRANSITIONS NOT INCLUDED) SUBSIDIARY TO CG-2 IS ALL CG-2 DRY NEEDED)	3024 LF
6	5' CONC. SIDEWALK	57 LF
7	TYPE A SIDEWALK RAMP	2 EA
8	TYPE M SIDEWALK RAMP	4 EA
9	6'X4' CURB INLET	12 EA
10	6'X5' CURB INLET	1 EA
11	6'X6' CURB INLET	2 EA
12	8'X4' CURB INLET	1 EA
13	4'X4' JUNCTION BOX	1 EA
14	4'X5' JUNCTION BOX	1 EA
15	5'X5' JUNCTION BOX	1 EA
16	4'X4' AREA INLET WITH ONE OPENING	1 EA
17	4'X4' AREA INLET WITH TWO OPENINGS	1 EA
18	WATER QUALITY STRUCTURE (STRUCTURE 3901) STRUCTURE TO INCLUDE, 8" PVC, RISER PIPE, CONCRETE BLOCK, TRASH RACK, ETC.	1 LS

19	FAIRCLOTH SKIMMER - INCLUDE SKIMMER, CONCRETE BLOCK, RISER PIPE, REMOVAL AND REPLACEMENT WITH PERMANENT STRUCTURE	1	LS
20	24" END SECTION WITH TOE WALL	1	EA
21	30" END SECTION WITH TOE WALL	2	EA
22	36" END SECTION WITH TOE WALL	1	EA
23	50# STONE RIPRAP WITH FILTER FABRIC	12	EA
24	100# STONE RIPRAP WITH FILTER FABRIC	12	CY
25	150# STONE RIPRAP WITH FILTER FABRIC	7	CY
26	15" HDPE	460	LF
27	18" HDPE	150	LF
28	24" HDPE	425	LF
29	30" HDPE	385	LF
30	36" HDPE	670	LF
31	TURF REINFORCEMENT MAT	412	SY
32	EROSION CONTROL	1	LS
33	END OF ROAD MARKERS (OM 4-1)	6	EA
34	SEEDING AND MULCHING ALL DISTURBED AREAS	1	LS
THESE QUANTITIES ARE SUPPLIED FOR THE CONTRACTOR'S BENEFIT. CONTRACTOR SHALL VERIFY QUANTITIES AND DISCREPANCIES WHEN PLACING THEIR BID			

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
02/03/2022	PER CITY COMMENTS DATED 01/10/2022
04/20/2022	PER CITY COMMENTS DATED 02/28/2022
05/19/2022	PER CITY COMMENTS DATED 05/13/2022
10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note

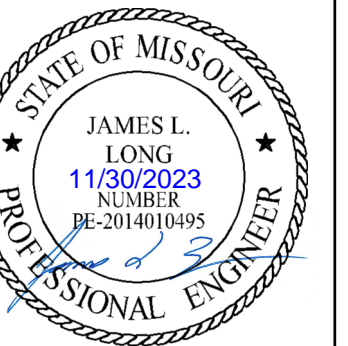
DRAWN BY: JRJ	CHECKED BY: JLL	DATE PREPARED: 12/20/2021	PROJ. NUMBER: 21-138
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COVER SHEET

SHEET

1

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

BASIS OF BEARINGS:
 MISSOURI STATE PLANE COORDINATE SYSTEM
 (NAD) 1983, MISSOURI, WEST ZONE

NOTES:
 ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.
 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

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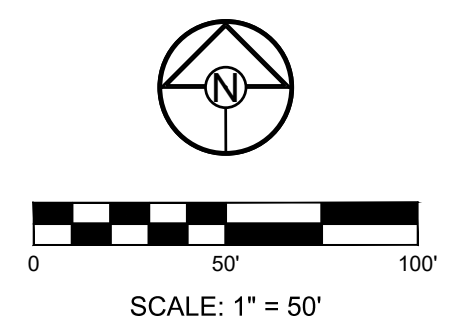
**CORNERSTONE AT BAILEY FARMS, FIRST PLAT
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GENERAL LAYOUT

SHEET

2



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Development Services Department
Lee's Summit, Missouri
12/14/2023

BASIS OF BEARINGS:
MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD) 1983, MISSOURI, WEST ZONE

NOTES:
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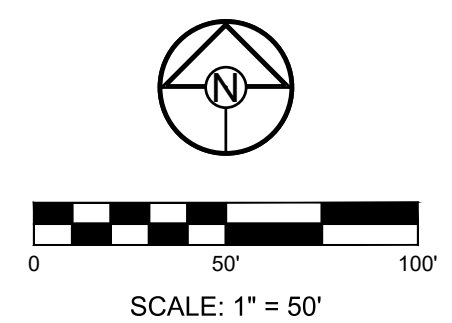
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

GRADING LEGEND:
--- 1023 --- EXISTING CONTOUR
— 1023 — PROPOSED CONTOUR

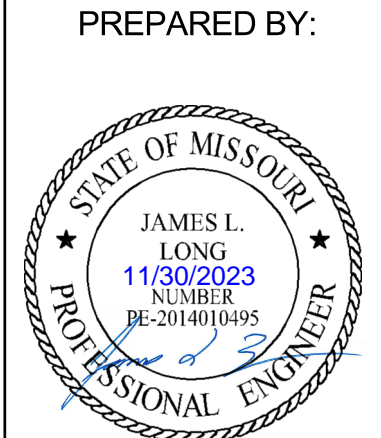
- NOTES:**
- MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100-YEAR WATER SURFACE ELEVATION.
 - EGL = ENERGY GRADE LINE (100-YEAR)
 - WSE = WATER SURFACE ELEVATION (100-YEAR)
 - ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
 - MINIMUM BUILDING OPENING ELEVATIONS (MBOEs) ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM

LOT NUMBER	BASEMENT TYPE	MBOE
1	STANDARD	
2	DAYLIGHT	
3	DAYLIGHT	
4	DAYLIGHT	
5	WALKOUT	
6	WALKOUT	
7	WALKOUT	
8	WALKOUT	
9	DAYLIGHT	
10*	STANDARD	1012
11*	STANDARD	1014
12*	STANDARD	1014
13*	STANDARD	1015
14*	STANDARD	1015
15*	STANDARD	1012
16*	STANDARD	1012
17*	STANDARD	1012
18*	STANDARD	1012
19*	DAYLIGHT	1012
20	DAYLIGHT	
21*	DAYLIGHT	1014
22*	DAYLIGHT	1014
23	DAYLIGHT	
24	DAYLIGHT	
25*	STANDARD	1018
26*	STANDARD	1019
27	STANDARD	
28	STANDARD	
29	STANDARD	
30*	STANDARD	1019
31*	STANDARD	1018
32	STANDARD	
33	STANDARD	
34	STANDARD	
35	STANDARD	
36	STANDARD	
37	STANDARD	

* LOTS WHICH REQUIRE AN "AS-GRADED PLOT PLAN" BEFORE OCCUPANCY.



SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Missouri State Certificate of Authority
#E200200360P #LAC200100237 #LS200200859F



SCHLAGEL & ASSOCIATES, P.A.

**CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE
PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

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**MASTER
DRAINAGE
PLAN-GRADING
PLAN**

SHEET
3

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RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri
12/14/2023

BASIS OF BEARINGS:
MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

NOTES:
ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

GRADING LEGEND:
--- 1023 --- EXISTING CONTOUR
— 1023 — PROPOSED CONTOUR

A A DENOTES OVERFLOW SWALE

EL:000.00 DENOTES FINISHED GRADE ELEVATION
EL:000.00 (EX.) DENOTES EXISTING GRADE ELEVATION

HP 000.00 DENOTES LOT HIGH POINT ELEVATION

- NOTES:**
- MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100-YEAR WATER SURFACE ELEVATION.
 - EGL = ENERGY GRADE LINE (100-YEAR)
 - WSE = WATER SURFACE ELEVATION (100-YEAR)
 - ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
 - MINIMUM BUILDING OPENING ELEVATIONS (MBOEs) ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM

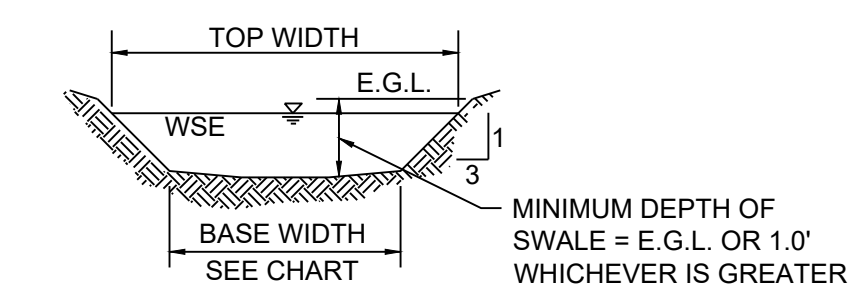
WEIR CALCULATIONS (Q = CLH^{3/2})

SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	WEIR ELEVATION	WEIR COEFFICIENT	LENGTH (FT.)	HEAD REQUIRED (FT.)	WSE
1-1	0.60	5.11	2.91	2.20	1016.30	3.33	10	0.16	1016.46

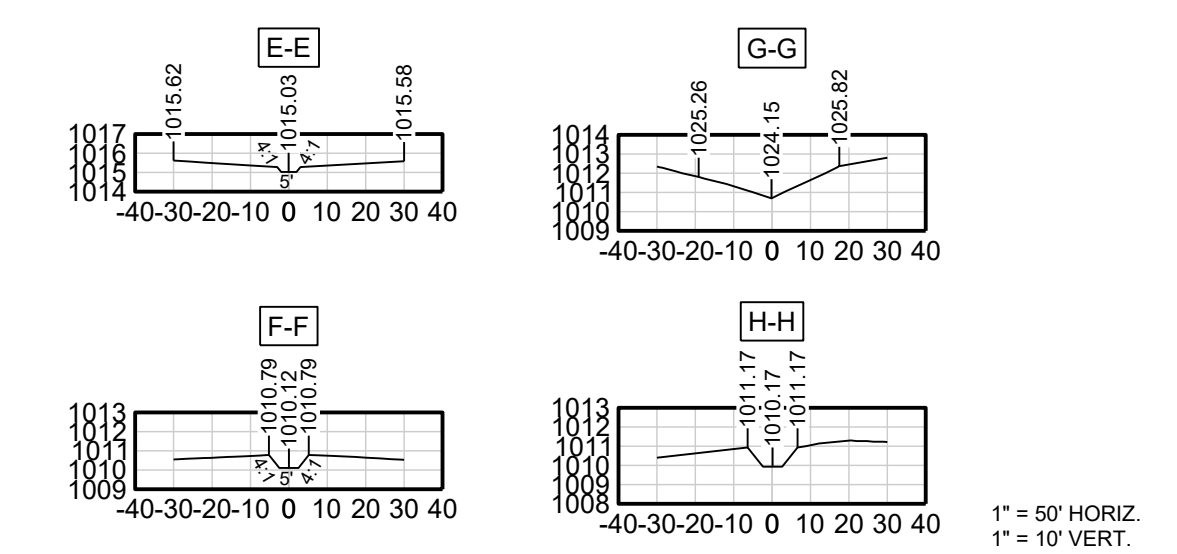
100 YEAR OVERFLOW SWALES

SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	BASE WIDTH (FT.)	SIDE SLOPE	TOP WIDTH (FT.)	NORMAL DEPTH (FT.)	VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
E-E	0.76	6.47	3.69	2.78	2.2	5	4:1	4.00	0.50	2.78	0.12	0.62
F-F	3.21	27.33	15.57	11.76	2.0	5	4:1	8.84	0.48	3.54	0.19	0.67
G-G	3.56	30.31	17.27	13.04	2.4	0	4:1	6.96	0.87	4.31	0.29	1.16
H-H	8.77	74.67	42.54	32.12	5.3	5	4:1	10.04	0.63	6.78	0.71	1.34

RUNOFF CALCULATIONS:
 $Q = K \cdot C \cdot I \cdot A$
 $K_{10} = 1.0 \quad K_{100} = 1.25 \quad C = 0.66 \quad I = \text{INTENSITY}$
 DESIGN OVERFLOW = $Q_{\text{OVERFLOW}} = Q_{100} \cdot C_{10}$
 MANNINGS "n" = 0.030 FOR SWALES



100 YEAR OVERFLOW SWALE SECTIONS



1" = 50' HORIZ
1" = 10' VERT.

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Missouri State Certificates of Authority #E202003690F #LAC201005237 #LS20200869F

PREPARED BY:

 JAMES L. LONG
 11/30/2023
 NUMBER
 BE-2014010495
 PROFESSIONAL ENGINEER

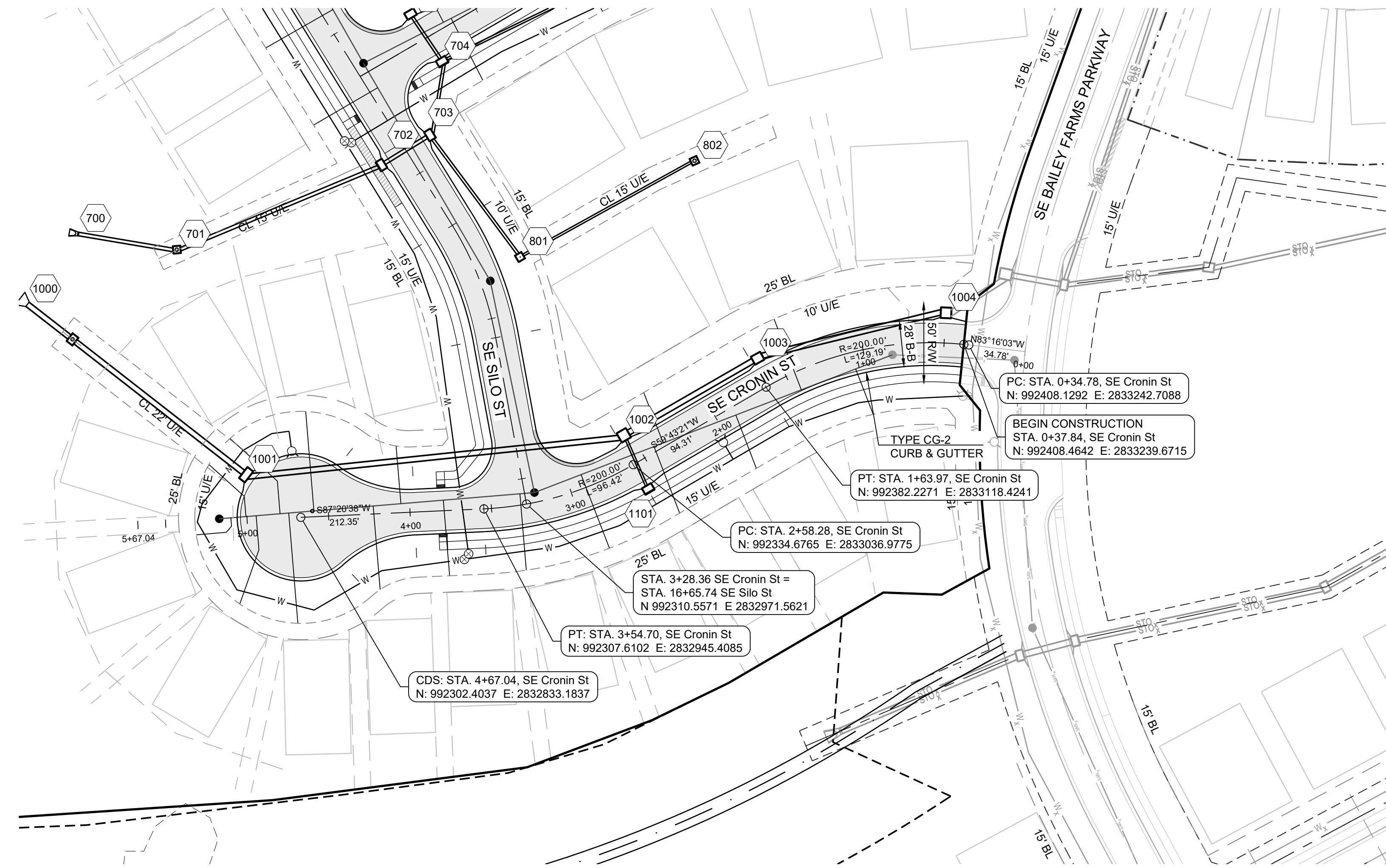
SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE
PLAN

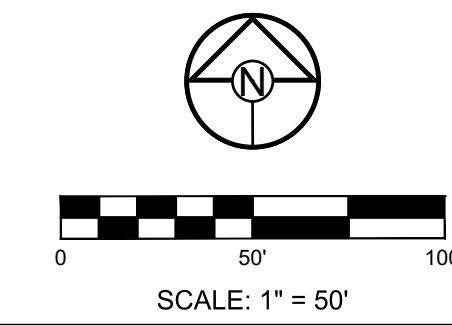
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
02/03/2022	PER CITY COMMENTS DATED 01/10/2022
04/20/2022	PER CITY COMMENTS DATED 02/28/2022
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10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note

MASTER DRAINAGE PLAN - SWALE GRADING PLAN
SHEET



RELEASED FOR CONSTRUCTION
 As Noted on Plan Review
 Development Services Department
 Lee's Summit, Missouri
 12/14/2023



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM CRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

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

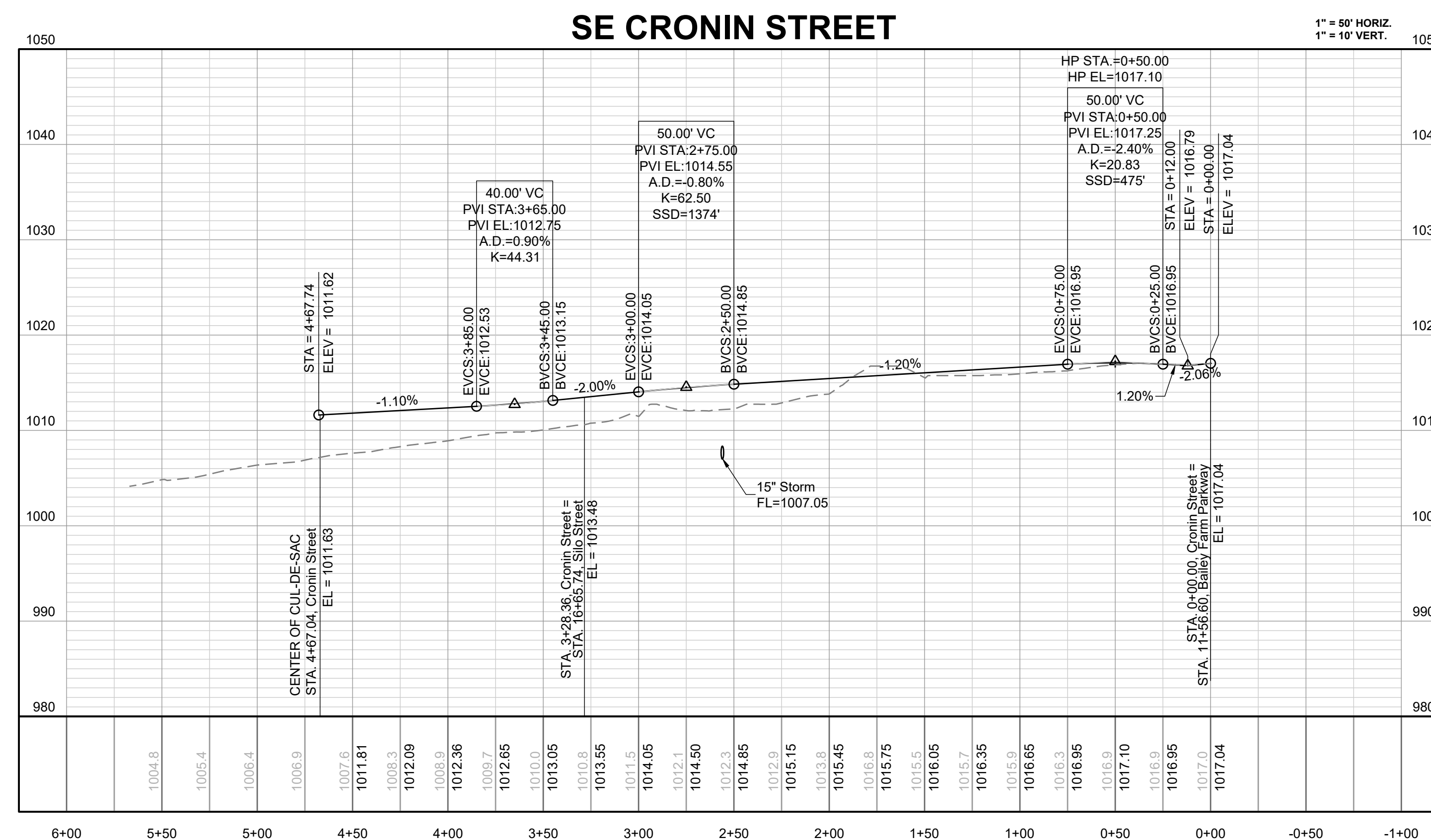
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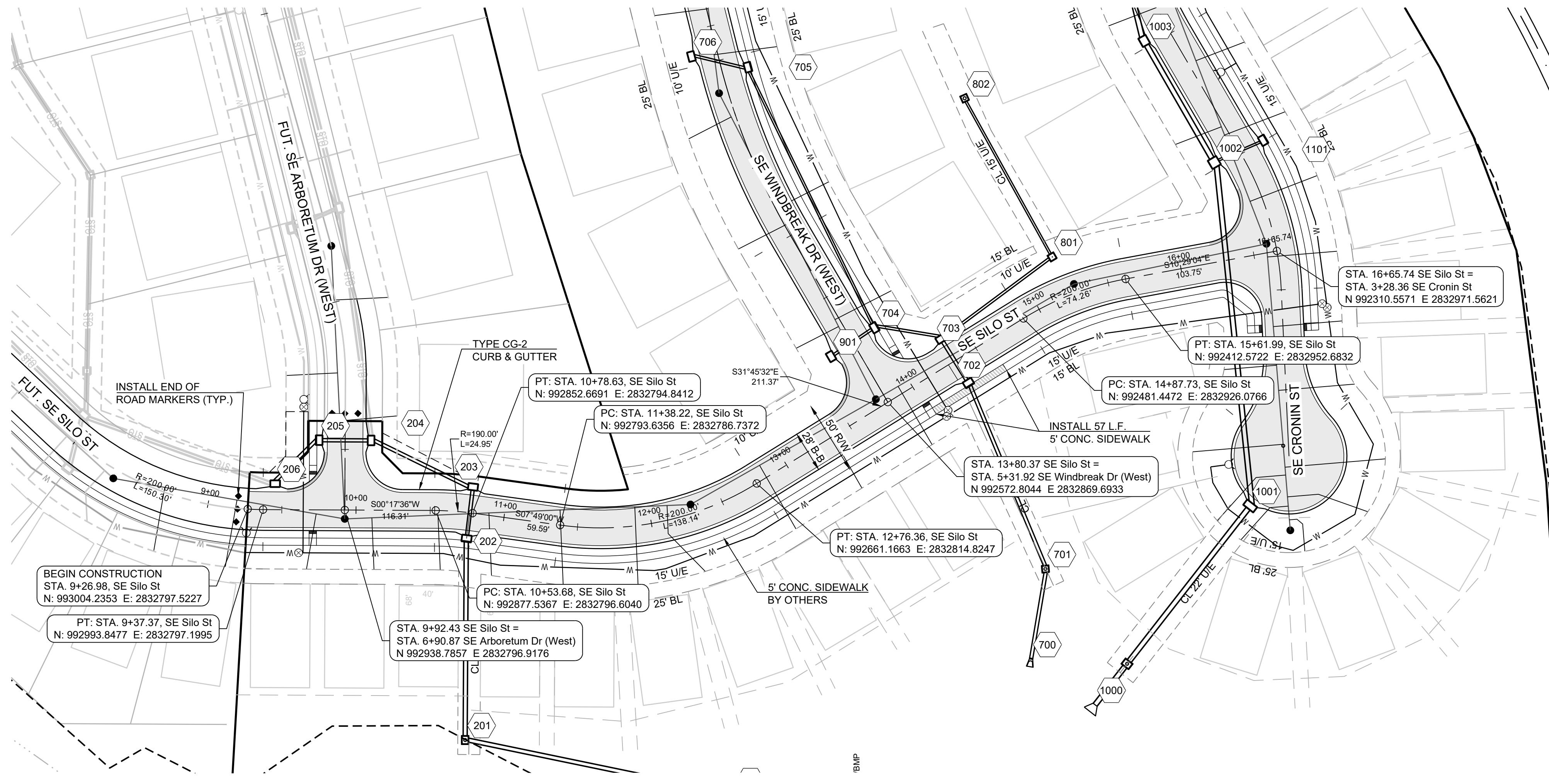
CORNERSTONE AT BAILEY FARMS, FIRST PLAT
 STREET, STORMWATER, AND MASTER DRAINAGE
 PLAN
 SE BAILEY ROAD AND SE RANSON ROAD
 LEE'S SUMMIT, MISSOURI



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11/09/2023	Added "New City Requirements" Note

SE CRONIN ST
 PLAN AND
 PROFILE

SHEET
5



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

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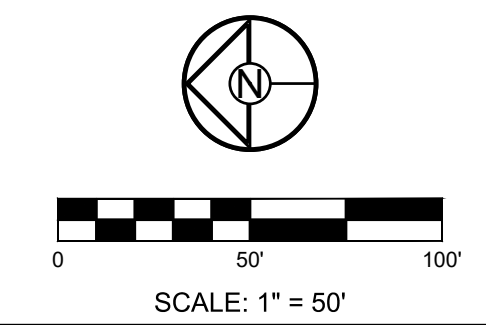
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As Noted on Plan Review

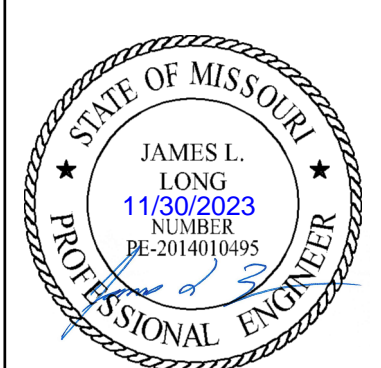
Development Services Department
Lee's Summit, Missouri

12/14/2023



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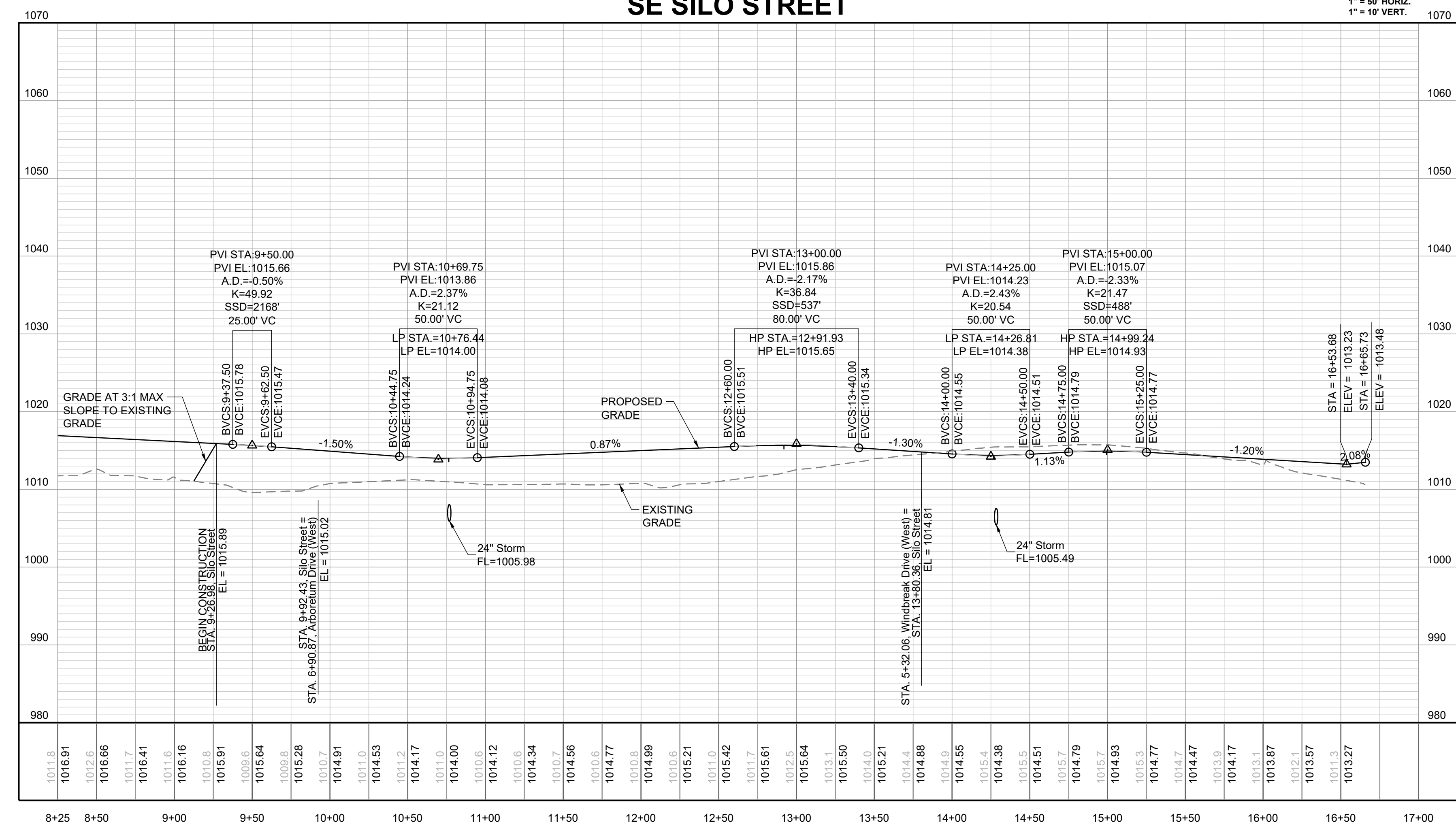
SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE
PLAN

SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

SE SILO STREET

1" = 50' HORIZ.
1" = 10' VERT.



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02/27/2023	Updated City Details to 2023 Details
11/02/2023	Added "New City Requirements" Note

SE SILO ST PLAN AND PROFILE

SHEET
6

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PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
 STREET, STORMWATER, AND MASTER
 DRAINAGE PLAN
 SE BAILEY ROAD AND SE RANSON ROAD
 LEE'S SUMMIT, MISSOURI

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02/27/2023	Updated City Details to 2023 Details
11/09/2023	Added "New City Requirements" Note

DRAWN BY:	JRU
CHECKED BY:	JLL
DATE PREPARED:	1/20/2021
PROJ. NUMBER:	21-186

SE WINDBREAK DR
 (WEST) AND
 ARBORETUM DR
 PLAN AND PROFILE
 SHEET

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

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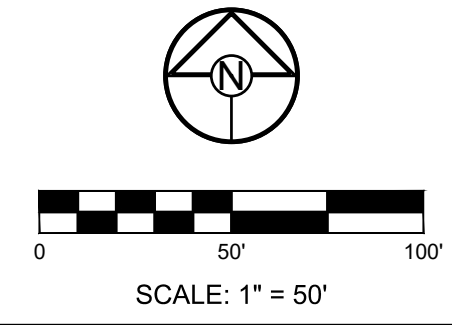
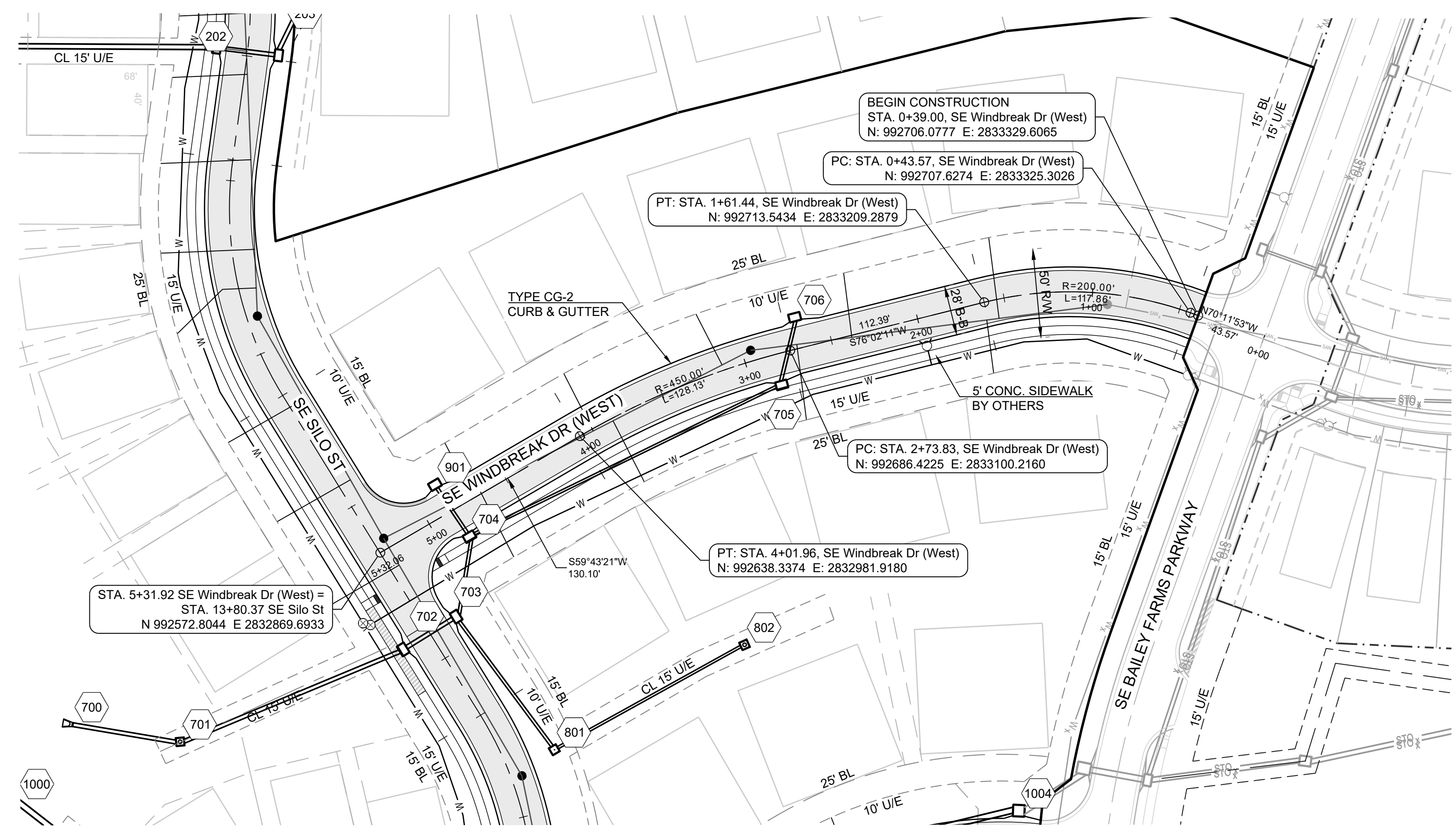
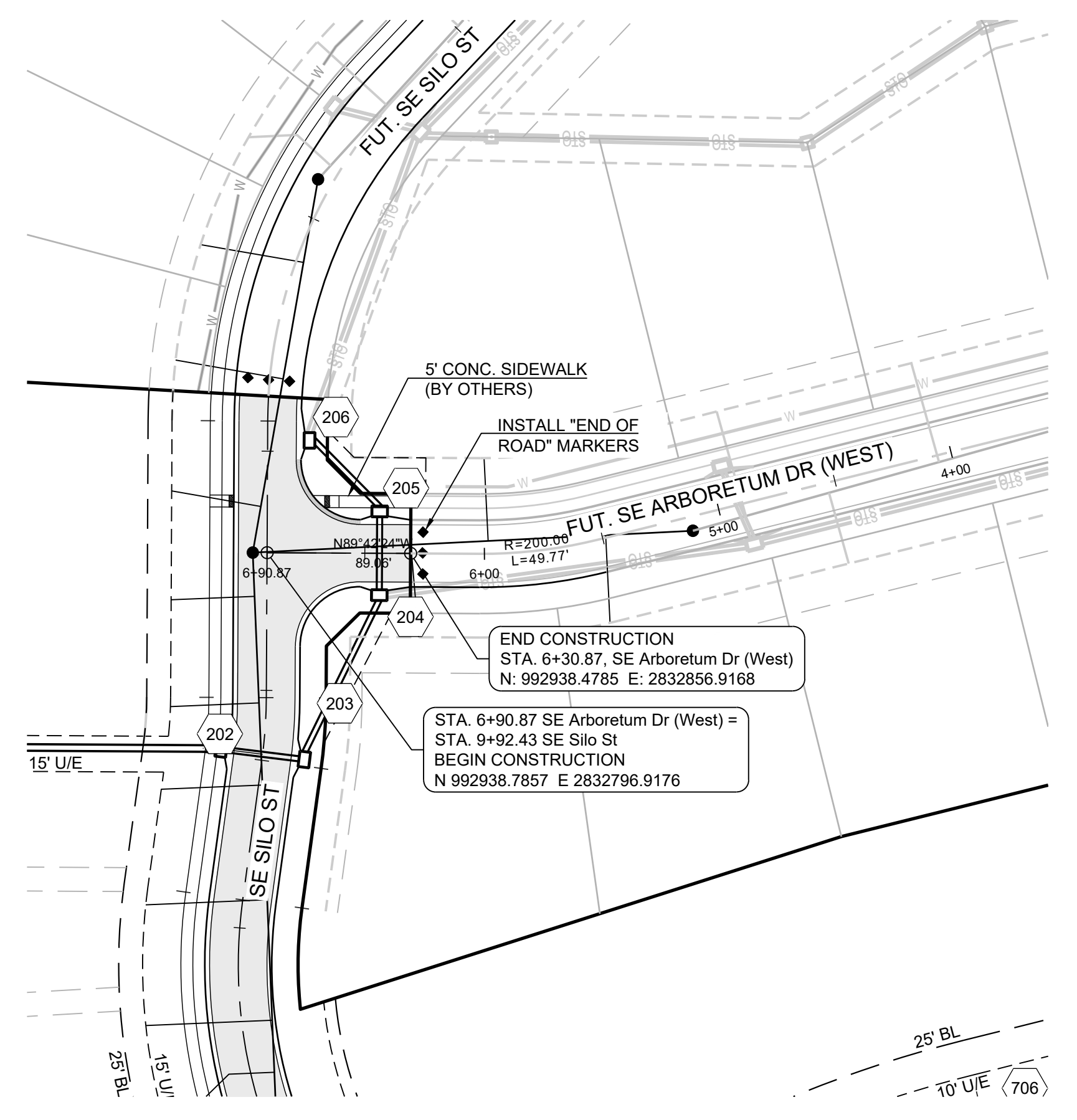
ELEV. = 1046.25

NOTES:

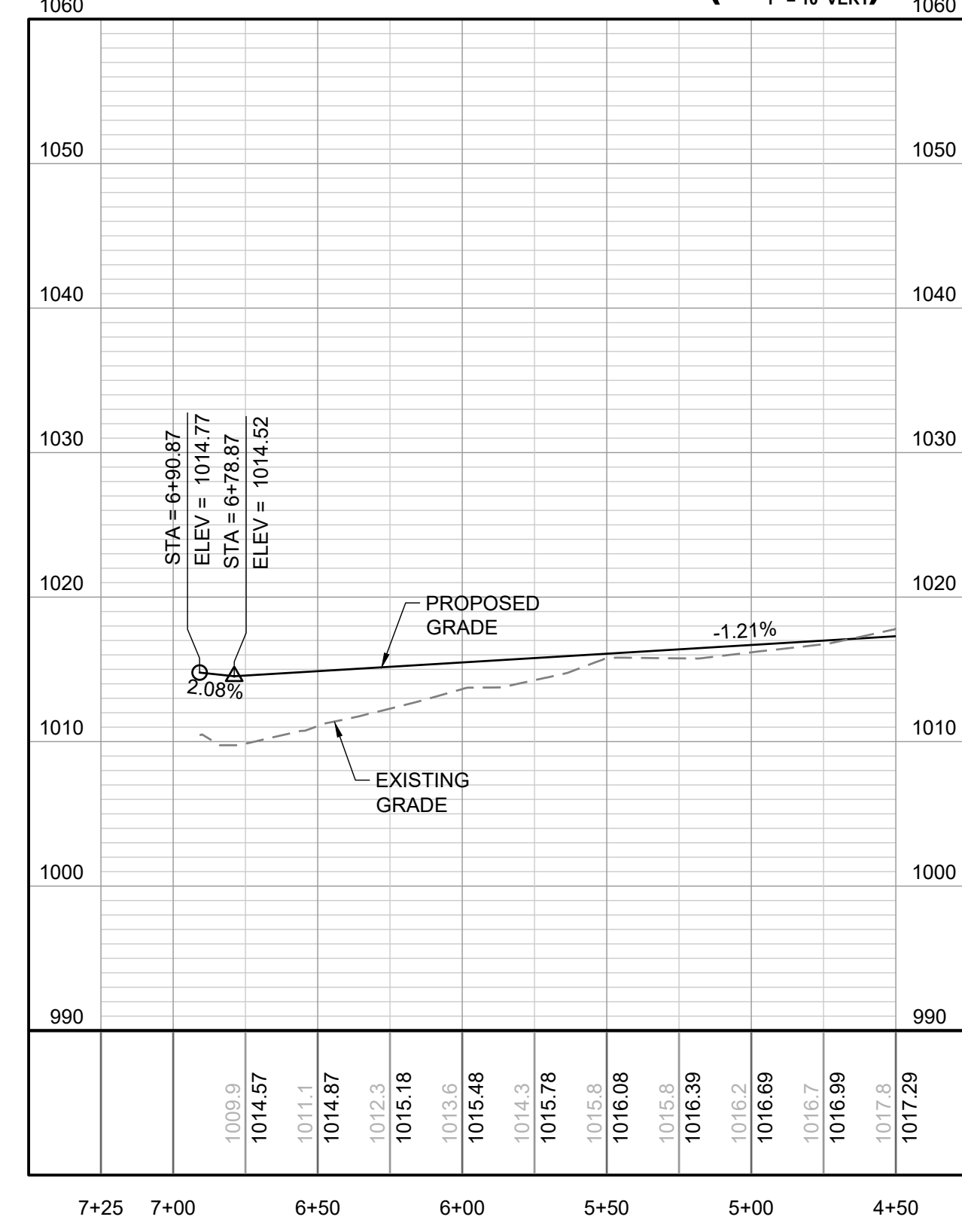
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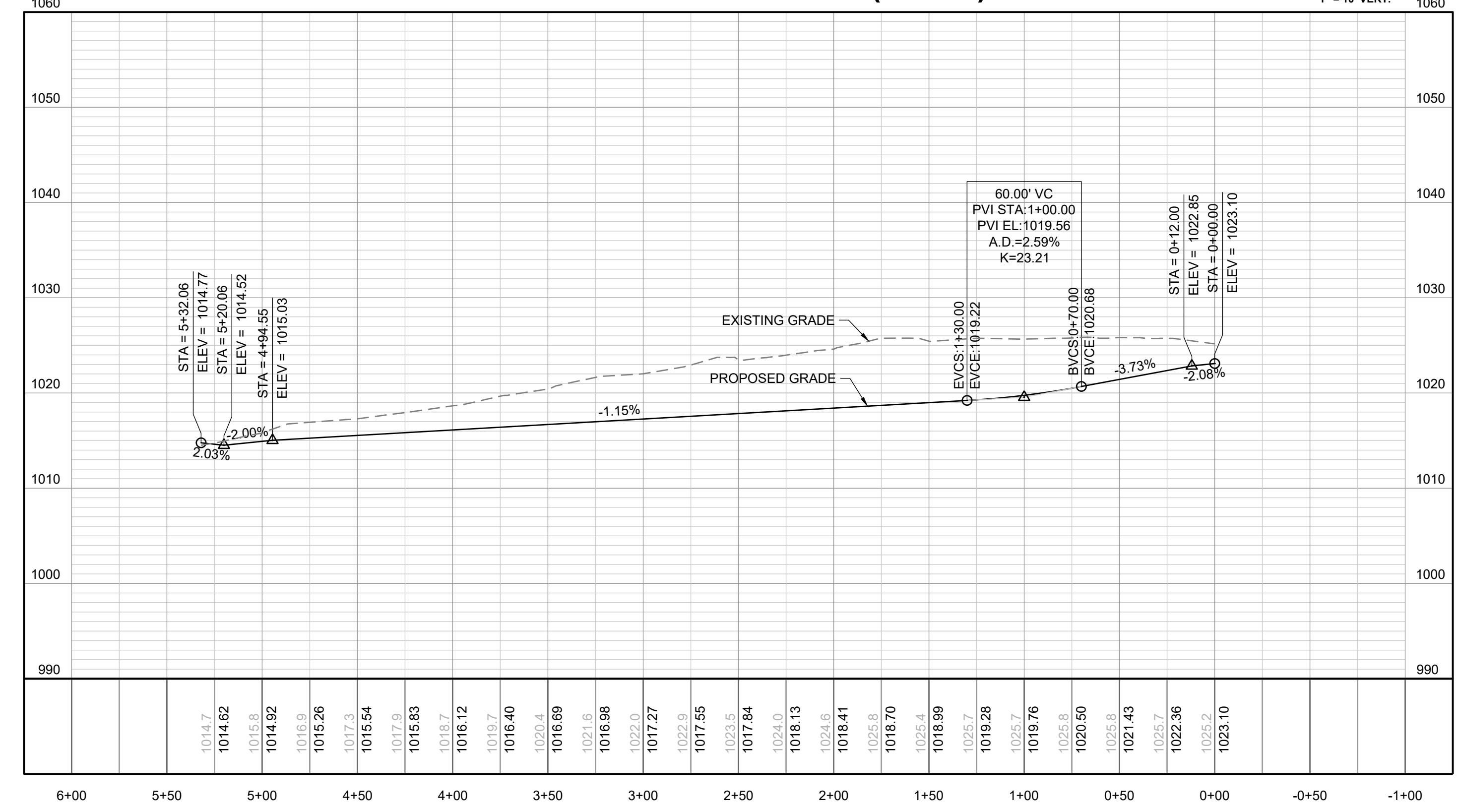
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SE ARBORETUM DRIVE (WEST)

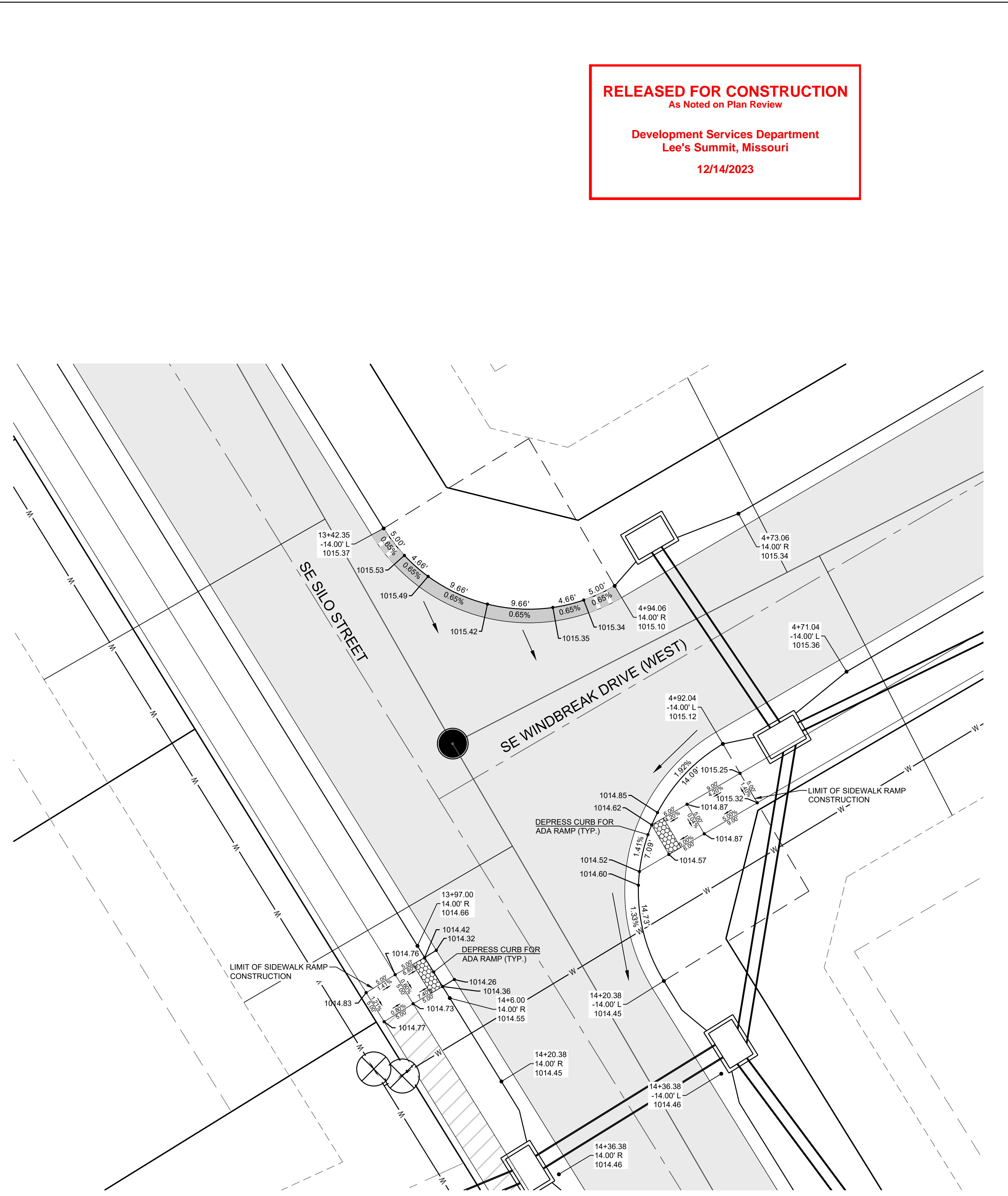
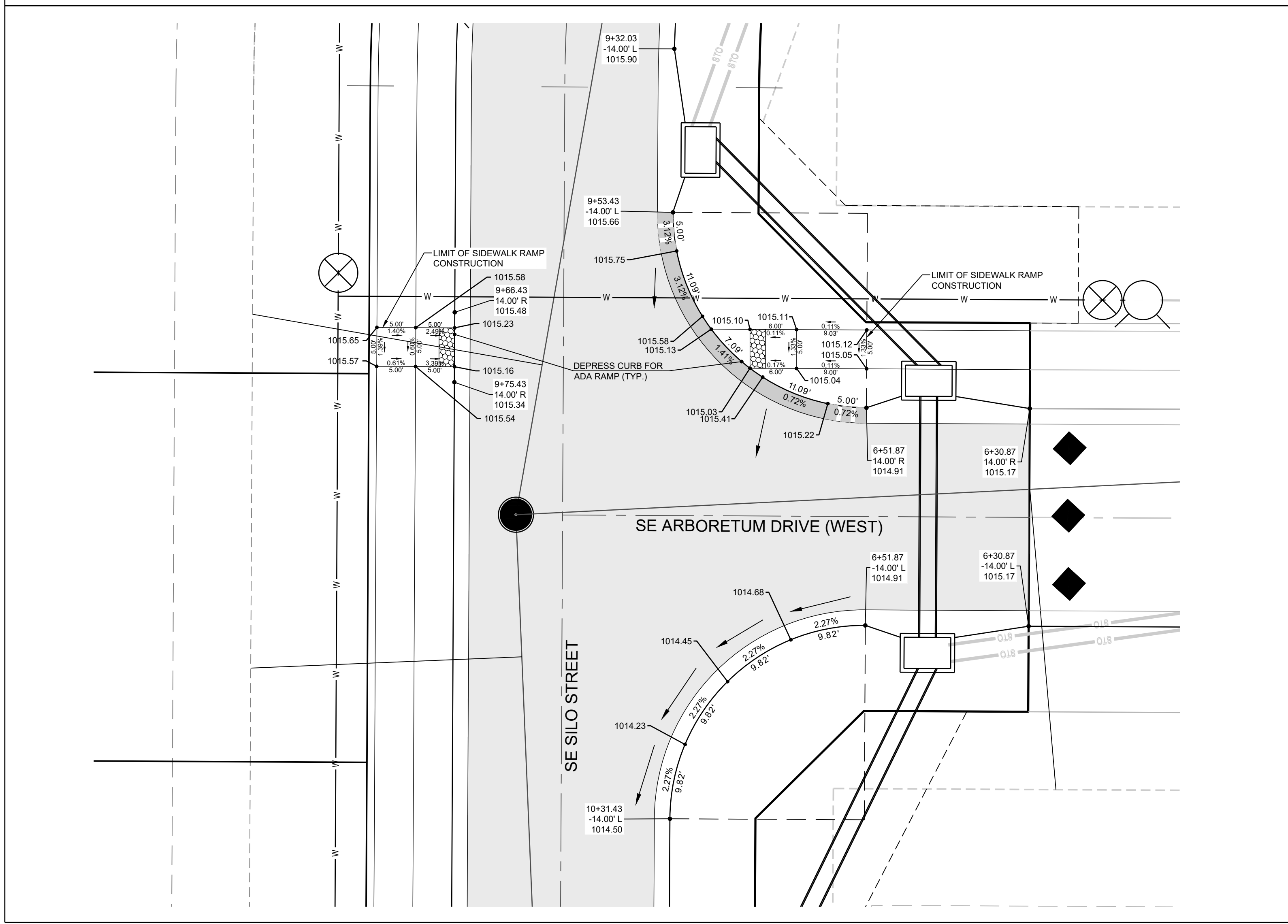
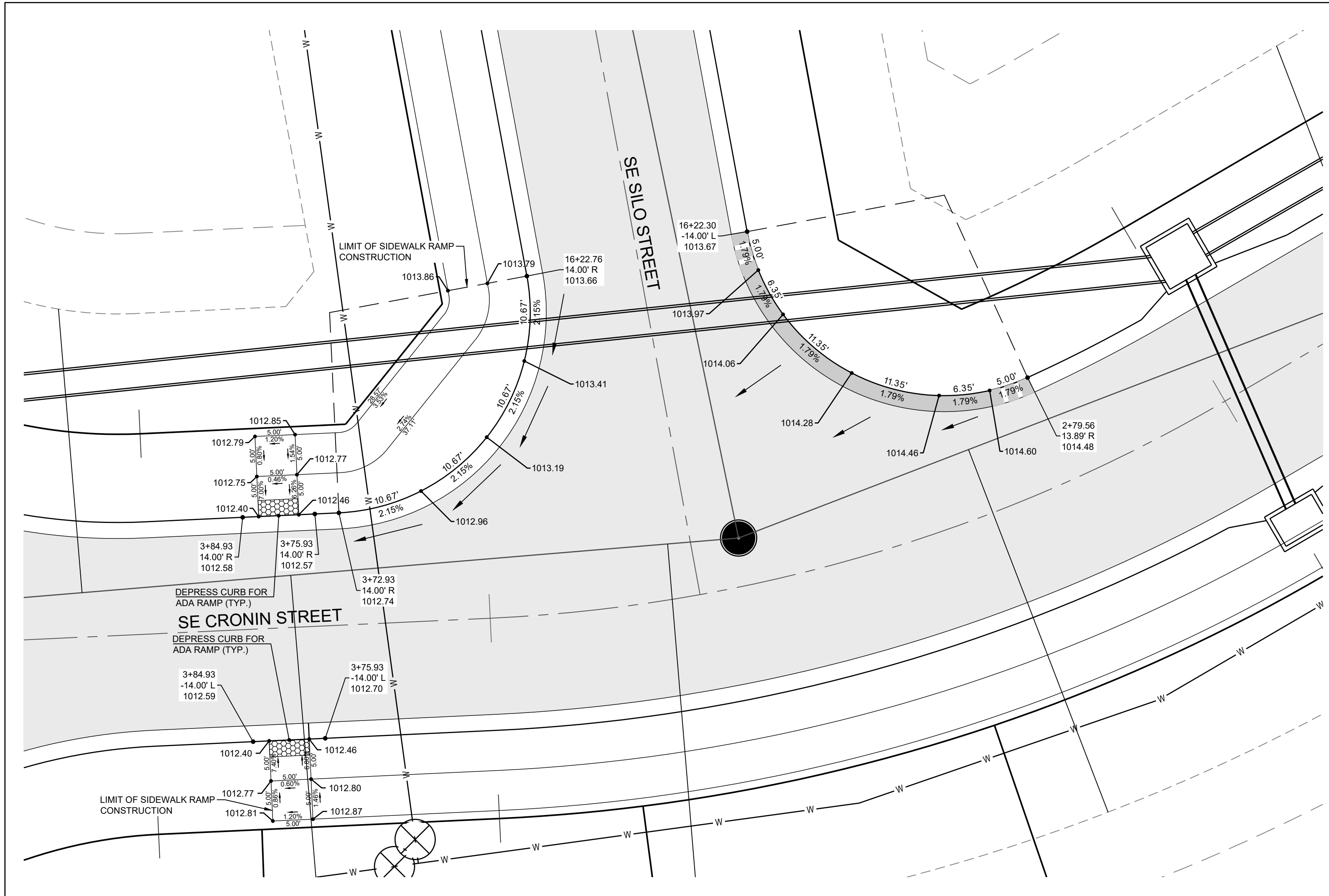


SE WINDBREAK DRIVE (WEST)



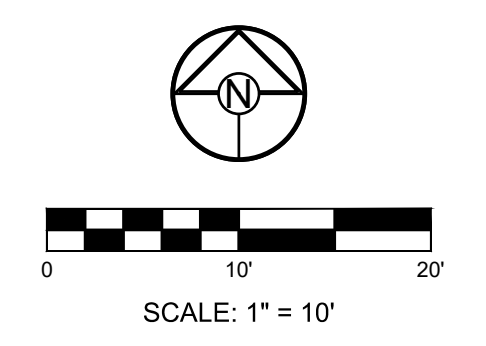
RELEASED FOR CONSTRUCTION
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Development Services Department
Lee's Summit, Missouri
12/14/2023



CURB LEGEND

	CURB & GUTTER - EXISTING
	TYPE "CG-2" CURB & GUTTER
	TYPE "CG-2" DRY CURB & GUTTER
	TRANSITION "CG-2" TO "CG-2 DRY"



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#E2002003690-F #LAC2001005237 #LS200200869-F

PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

**CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE
PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

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**INTERSECTION
DETAILS**

SHEET
8

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MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:
 BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.
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PREPARED BY:

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 11/30/2023
 BE-2014010495
 PROFESSIONAL ENGINEER

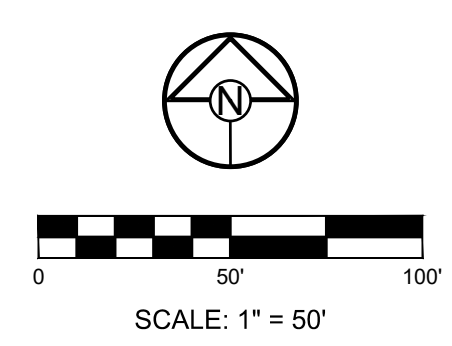
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 PLAN**
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MASTER DRAINAGE
 PLAN-DRAINAGE
 AREA MAP

SHEET
9



10-YEAR RUNOFF CALCULATIONS

Design Storm:		10																									
"K" Value:		1.00																									
"F" Factor:		1.00																									
Runoff Calculations		Runoff		Pipe Properties																							
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. CxA	To Intensity	To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top			
LINE 200	201	0.00	0.66	8.09	5.34	7.7	6.60	0.00	35.27	34.42	7.01			0.00	0.00	201	200	HDPE	0.012	30	184.94	0.60	0.20	1002.61	1001.50	1008.75	DS TAILWATER @ STR #200
	202	0.69	0.66	8.09	5.34	7.4	6.68	3.04	35.64	39.74	8.10			0.00	0.00	202	201	HDPE	0.012	30	135.90	0.80	1.50	1003.90	1002.81	1013.49	
	203	0.39	0.66	7.40	4.88	7.3	6.70	1.72	32.71	21.92	6.98			0.00	0.00	203	202	HDPE	0.012	24	35.04	0.80	0.50	1005.68	1005.40	1013.50	
	204	0.51	0.66	7.01	4.63	7.2	6.74	2.27	31.20	21.92	6.98	301	1.85	1.22	204	203	HDPE	0.012	24	75.49	0.80	0.50	1006.78	1006.18	1015.11		
	205	0.55	0.66	4.65	3.07	7.1	6.76	2.46	20.76	21.92	6.98			0.00	0.00	205	204	HDPE	0.012	24	35.00	0.80	0.50	1007.56	1007.28	1015.11	
	206	0.14	0.66	4.10	2.71	7.0	6.79	0.63	18.38	21.92	6.98			0.00	0.00	206	205	HDPE	0.012	24	41.74	0.80	0.20	1008.40	1008.06	1015.83	
LINE 700	701	0.00	0.66	1.98	1.31	5.7	7.14	0.00	9.33	21.92	6.98			0.00	0.00	701	700	HDPE	0.012	24	61.51	0.80	0.50	1000.13	999.64	1009.24	DS TAILWATER @ STR #700
	702	0.24	0.66	1.98	1.31	5.5	7.20	1.14	9.40	34.66	11.03			0.00	0.00	702	701	HDPE	0.012	24	135.04	2.00	0.30	1003.33	1000.63	1014.47	
	703	0.32	0.66	1.74	1.15	5.5	7.21	1.52	8.28	34.66	11.03	901	0.74	0.49	703	702	HDPE	0.012	24	35.00	2.00	0.40	1004.33	1003.63	1014.47		
	704	0.30	0.66	0.68	0.45	5.4	7.23	1.43	3.24	34.66	11.03			0.00	0.00	704	703	HDPE	0.012	18	41.96	3.00	0.40	1005.99	1004.73	1015.29	
	705	0.38	0.66	0.38	0.25	5.0	7.35	1.84	1.84	9.90	8.06			0.00	0.00	705	704	HDPE	0.012	15	195.23	2.00	0.40	1010.30	1006.39	1017.49	
	706	0.88	0.66	0.88	0.58	5.0	7.35	4.27	4.27	9.90	8.06			0.00	0.00	706	705	HDPE	0.012	15	38.73	2.00	N/A	1011.47	1010.70	1017.78	
LINE 800	801	0.41	0.66	1.12	0.74	5.3	7.28	1.97	5.38	16.09	9.11			0.00	0.00	801	703	HDPE	0.012	18	97.97	2.00	0.50	1006.79	1004.83	1014.92	Drop in Inlet 703
	802	0.71	0.66	0.71	0.47	5.0	7.35	3.45	3.45	9.90	8.06			0.00	0.00	802	801	HDPE	0.012	15	122.16	2.00	N/A	1009.74	1007.29	1015.80	
LINE 900	901	0.74	0.66	0.74	0.49	5.0	7.35	3.59	3.59	9.90	8.06			0.00	0.00	901	704	HDPE	0.012	15	35.06	2.00	N/A	1007.19	1006.49	1015.06	Drop in Inlet 704
LINE 1000	1001	0.00	0.66	14.65	10.02	8.3	6.45	0.00	64.59	67.78	9.59			0.00	0.00	1001	1000	HDPE	0.012	36	35.00	0.88	0.30	999.49	999.18	1010.90	DS TAILWATER @ STR #1000
	1002	1.18	0.66	14.65	10.02	8.1	6.50	0.00	65.12	72.26	10.22			0.00	0.00	1002	1001	HDPE	0.012	36	135.00	1.00	0.30	1001.14	999.79	1010.90	
	1003	0.11	0.66	14.65	10.02	7.7	6.60	5.14	66.16	64.63	9.14	1101	0.30	0.20	1003	1002	HDPE	0.012	36	232.81	0.80	0.40	1003.30	1001.44	1014.95		
	1004	0.15	0.66	13.17	9.04	7.5	6.65	0.48	60.10	64.63	9.14			0.00	0.00	1004	1003	HDPE	0.012	36	94.66	0.80	0.40	1004.46	1003.70	1016.07	
	1005	0.06	0.66	13.06	8.97	7.3	6.70	0.66	60.11	64.63	9.14			0.00	0.00	1005	1004	HDPE	0.012	36	118.84	0.80	0.40	1005.81	1004.86	1017.25	
LINE 1100	1101	0.30	0.66	0.30	0.20	5.0	7.35	1.46	1.46	12.12	9.88			0.00	0.00	1101	1002	HDPE	0.012	15	36.19	3.00	1.75	1003.97	1002.89	1014.88	Drop in Inlet 1002

100-YEAR RUNOFF CALCULATIONS

Design Storm:		100																									
"K" Value:		1.25																									
"F" Factor:		1.00																									
Runoff Calculations		Runoff		Pipe Properties																							
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. CxA	To Intensity	To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top			
LINE 200	201	0.00	0.66	8.09	5.34	7.7	9.31	0.00	62.14	34.42	7.01			0.00	0.00	201	200	HDPE	0.012	30	184.94	0.60	0.20	1002.61	1001.50	1008.75	DS TAILWATER @ STR #200
	202	0.69	0.66	8.09	5.34	7.4	9.41	5.35	62.78	39.74	8.10			0.00	0.00	202	201	HDPE	0.012	30	135.90	0.80	1.50	1003.90	1002.81	1013.49	
	203	0.39	0.66	7.40	4.88	7.3	9.44	3.04	57.60	21.92	6.98			0.00	0.00	203	202	HDPE	0.012	24	35.04	0.80	0.50	1005.68	1005.40	1013.50	
	204	0.51	0.66	7.01	4.63	7.2	9.50	4.00	54.93	21.92	6.98	301	1.85	1.22	204	203	HDPE	0.012	24	75.49	0.80	0.50	1006.78	1006.18	1015.11		
	205	0.55	0.66	4.65	3.07	7.1	9.53	4.32	36.55	21.92	6.98			0.00	0.00	205	204	HDPE	0.012	24	35.00	0.80	0.50	1007.56	1007.28	1015.11	
	206	0.14	0.66	4.10	2.71	7.0	9.56	1.10	32.35	21.92	6.98			0.00	0.00	206	205	HDPE	0.012	24	41.74	0.80	0.20	1008.40	1008.06	1015.83	
LINE 700	701	0.00	0.66	1.98	1.31	5.7	10.03	0.00	16.38	21.92	6.98			0.00	0.00	701	700	HDPE	0.012	24	61.51	0.80	0.50	1000.13	999.64	1009.24	DS TAILWATER @ STR #700
	702	0.24	0.66	1.98	1.31	5.5	10.11	2.00	16.52	34.66	11.03			0.00	0.00	702	701	HDPE	0.012	24	135.04	2.00	0.30	1003.33	1000.63	1014.47	
	703	0.32	0.66	1.74	1.15	5.5	10.13	2.67	14.54	34.66	11.03	901	0.74	0.49	703	702	HDPE	0.012	24	35.00	2.00	0.40	1004.33	1003.63	1014.47		
	704	0.30	0.66	0.68	0.45	5.4	10.16	2.51	5.70	19.71	11.15			0.00	0.00	704	703	HDPE	0.012	18	41.96	3.00	0.40	1005.99	1004.73	1015.29	
	705	0.38	0.66	0.38	0.25	5.0	10.32	3.24	3.24	9.90	8.06			0.00	0.00	705	704	HDPE	0.012	15	195.23	2.00	0.40	1010.30	1006.39	1017.49	
	706	0.88	0.66	0.88	0.58	5.0	10.32	7.49	7.49	9.90	8.06			0.00	0.00	706	705	HDPE	0.012	15	38.73	2.00	N/A	1011.47	1010.70	1017.78	
LINE 800	801	0.41	0.66	1.12	0.74	5.3	10.22	3.46	9.44	16.09	9.11			0.00	0.00	801	703	HDPE	0.012	18	97.97	2.00	0.50	1006.79	1004.83	1014.92	Drop in Inlet 703
	802	0.71	0.66	0.71	0.47	5.0	10.32	6.05	6.05	9.90	8.06			0.00	0.00	802	801	HDPE	0.012	15	122.16	2.00	N/A	1009.74	1007.29	1015.80	
LINE 900	901	0.74	0.66	0.74	0.49	5.0	10.32	6.30	6.30	9.90	8.06			0.00	0.00	901	704	HDPE	0.012	15	35.06	2.00	N/A	1007.19	1006.49	1015.06	Drop in Inlet 704
LINE 1000	1001	0.00	0.66	14.65	10.02	8.3	9.09	0.00	113.91	67.78	9.59			0.00	0.00	1001	1000	HDPE	0.012	36	35.00	0.88	0.30	999.49	999.18	1010.90	DS TAILWATER @ STR #1000
	1002	1.18	0.66	14.65	10.02	8.1	9.17	0.00	114.81	72.26	10.22			0.00	0.00	1002	1001	HDPE	0.012	36	135.00	1.00	0.30	1001.14	999.79	1010.90	
	1003	0.11	0.66	14.65	10.02	7.7	9.31	9.06	116.58	64.63	9.14	1101	0.30	0.20	1003	1002	HDPE	0.012	36	232.81	0.80	0.40	1003.30	1001.44	1014.95		
	1004	0.15	0.66	13.17	9.04	7.5	9.37	0.85	105.88	64.63	9.14			0.00	0.00	1004	1003	HDPE	0.012	36	94.66	0.80	0.40	1004.46	1003.70	1016.07	
	1005	0.06	0.66	13.06	8.97	7.3	9.44	1.17	105.87	64.63	9.14			0.00	0.00	1005	1004	HDPE	0.012	36	118.84	0.80	0.40	1005.81	1004.86	1017.25	
LINE 1100	1101	0.30	0.66	0.30	0.20	5.0																					

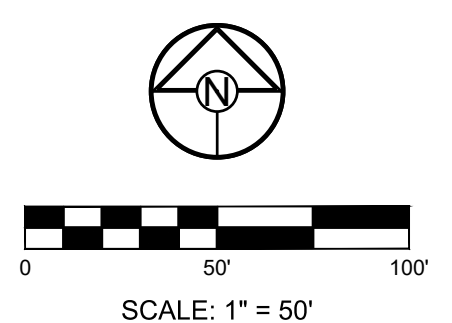
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 Lee's Summit, Missouri
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Storm Sewer Construction Notes	
Structure	Notes
200	STA 0+00.00, LINE 200 INSTALL 30" HDPE FLARED END SECTION W/ TOEWALL AND 7 CU. YD (16'X8'X2.5') STONE RIP-RAP USING A MIN. 100# (D50=15") STONE. PLACE FILTER FABRIC PRIOR TO INSTALLATION OF RIP-RAP. N 992676.4508 E 2832604.7511
201	STA 1+84.94, LINE 200 INSTALL 5 X 4 JUNCTION BOX N 992857.6387 E 2832641.8233
202	STA 3+20.54, LINE 200 INSTALL 6 X 4 CURB INLET N 992856.6502 E 2832777.4172
203	STA 3+55.57, LINE 200 INSTALL 6 X 4 CURB INLET N 992852.4044 E 2832612.1893
204	STA 4+31.15, LINE 200 INSTALL 6 X 4 CURB INLET N 992921.0453 E 2832843.8274
205	STA 4+66.15, LINE 200 INSTALL 6 X 4 CURB INLET N 992956.0449 E 2832844.0066
206	STA 5+07.89, LINE 200 INSTALL 6 X 4 CURB INLET N 992985.7268 E 2832814.6582
700	STA -0+00.00, LINE 700 INSTALL 24" HDPE FLARED END SECTION W/ TOEWALL AND 5 CU. YD (14'X6'X1.5') STONE RIP-RAP USING A MIN. 50# (D50=12") STONE. PLACE FILTER FABRIC PRIOR TO INSTALLATION OF RIP-RAP. N 992476.2527 E 2832696.4116
701	STA 0+61.50, LINE 700 INSTALL 4 X 4 JUNCTION BOX N 992466.5519 E 2832757.1471
702	STA 1+97.26, LINE 700 INSTALL 6 X 4 CURB INLET N 992518.4477 E 2832882.5904
703	STA 2+32.26, LINE 700 INSTALL 6 X 4 CURB INLET N 992536.8697 E 2832912.3499
704	STA 2+77.85, LINE 700 INSTALL 6 X 4 CURB INLET N 992581.8404 E 2832919.8570
705	STA 4+73.08, LINE 700 INSTALL 6 X 4 CURB INLET N 992667.1149 E 2833095.4758
706	STA 5+11.81, LINE 700 INSTALL 6 X 4 CURB INLET N 992705.1565 E 2833102.7289
801	STA 0+92.98, LINE 800 INSTALL 4 X 4 AREA INLET OPEN TO EAST N 992462.0478 E 2832967.5530

Storm Sewer Construction Notes	
Structure	Notes
802	STA 2+15.14, LINE 800 INSTALL 4 X 4 AREA INLET OPEN TO EAST & WEST N 992521.0360 E 2833074.5302
901	STA 0+35.06, LINE 900 INSTALL 6 X 4 CURB INLET N 992611.0492 E 2832900.4685
1000	STA 0+00.00, LINE 1000 INSTALL 30" HDPE FLARED END SECTION W/ TOEWALL AND 12 CU. YD. (18'X9'X2) STONE RIP-RAP USING A MIN. 100# (D50=15") STONE. PLACE FILTER FABRIC PRIOR TO INSTALLATION OF RIP-RAP. N 992433.0590 E 2832665.5966
1001	STA 0+35.00, LINE 1000 INSTALL 5 X 5 JUNCTION BOX N 992411.5375 E 2832693.1978
1002	STA 1+70.00, LINE 1000 INSTALL 8 X 4 CURB INLET N 992328.5259 E 2832799.6593
1003	STA 4+02.81, LINE 1000 INSTALL 6 X 6 CURB INLET N 992352.7296 E 2833031.2069
1004	STA 4+97.47, LINE 1000 INSTALL 6 X 5 CURB INLET N 992399.9823 E 2833113.2254
1005	STA 6+16.30, LINE 1000 INSTALL 6 X 6 CURB INLET N 992427.8021 E 2833228.7610
1101	STA 0+36.19, LINE 1100 INSTALL 6 X 4 CURB INLET N 992319.7811 E 2833046.1733
3900	STA -0+00.00, LINE 3900 INSTALL 30" HDPE FLARED END SECTION W/ TOEWALL AND 7 CU. YD (16'X8'X2.5') STONE RIP-RAP USING A MIN. 200# (D50=24") STONE. PLACE FILTER FABRIC PRIOR TO INSTALLATION OF RIP-RAP. N 992087.6378 E 2832542.7072
3901	STA 0+89.50, LINE 3900 INSTALL 4 X 5 JUNCTION BOX N 992174.2309 E 2832565.3322



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PREPARED BY:

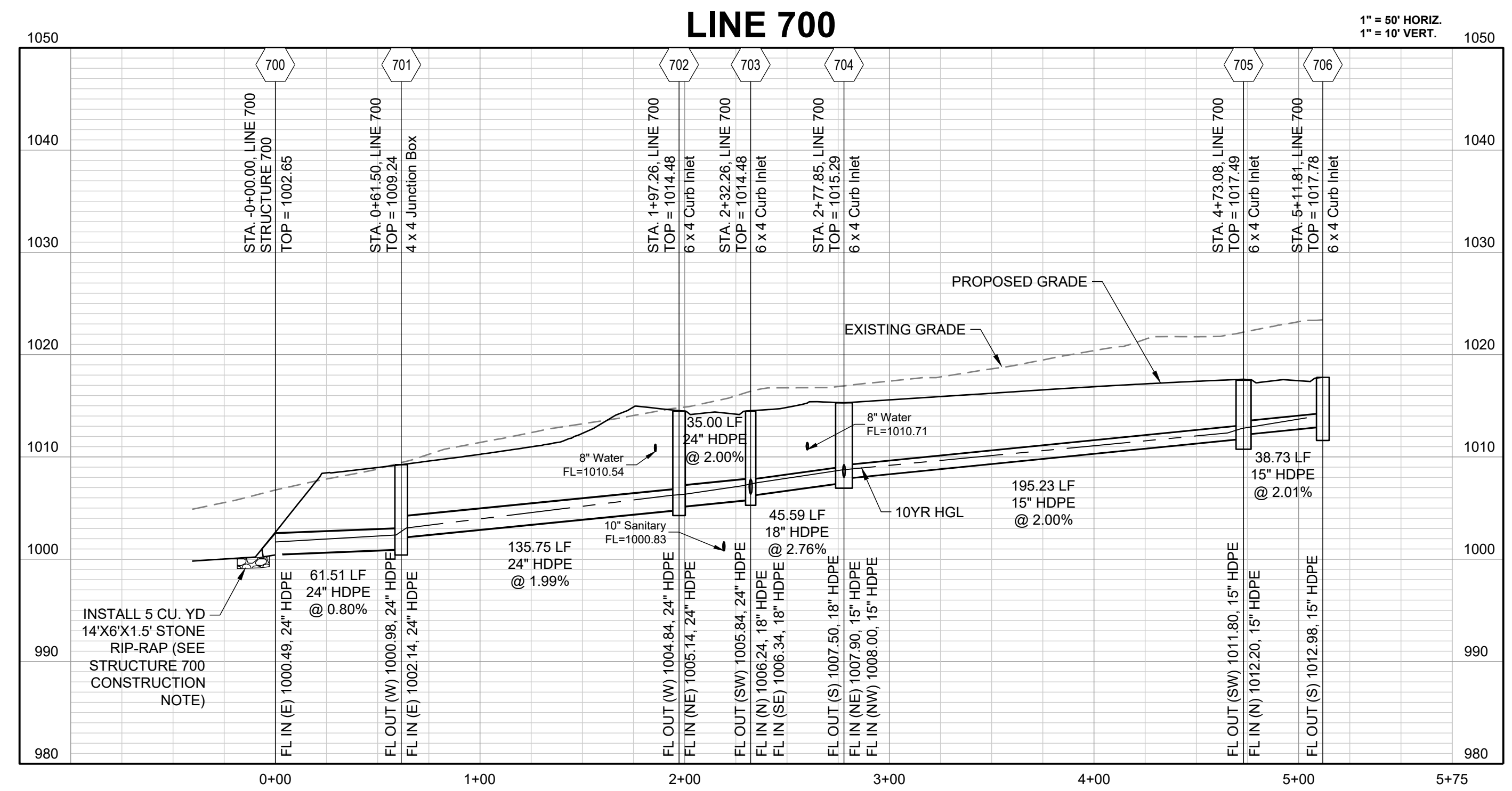
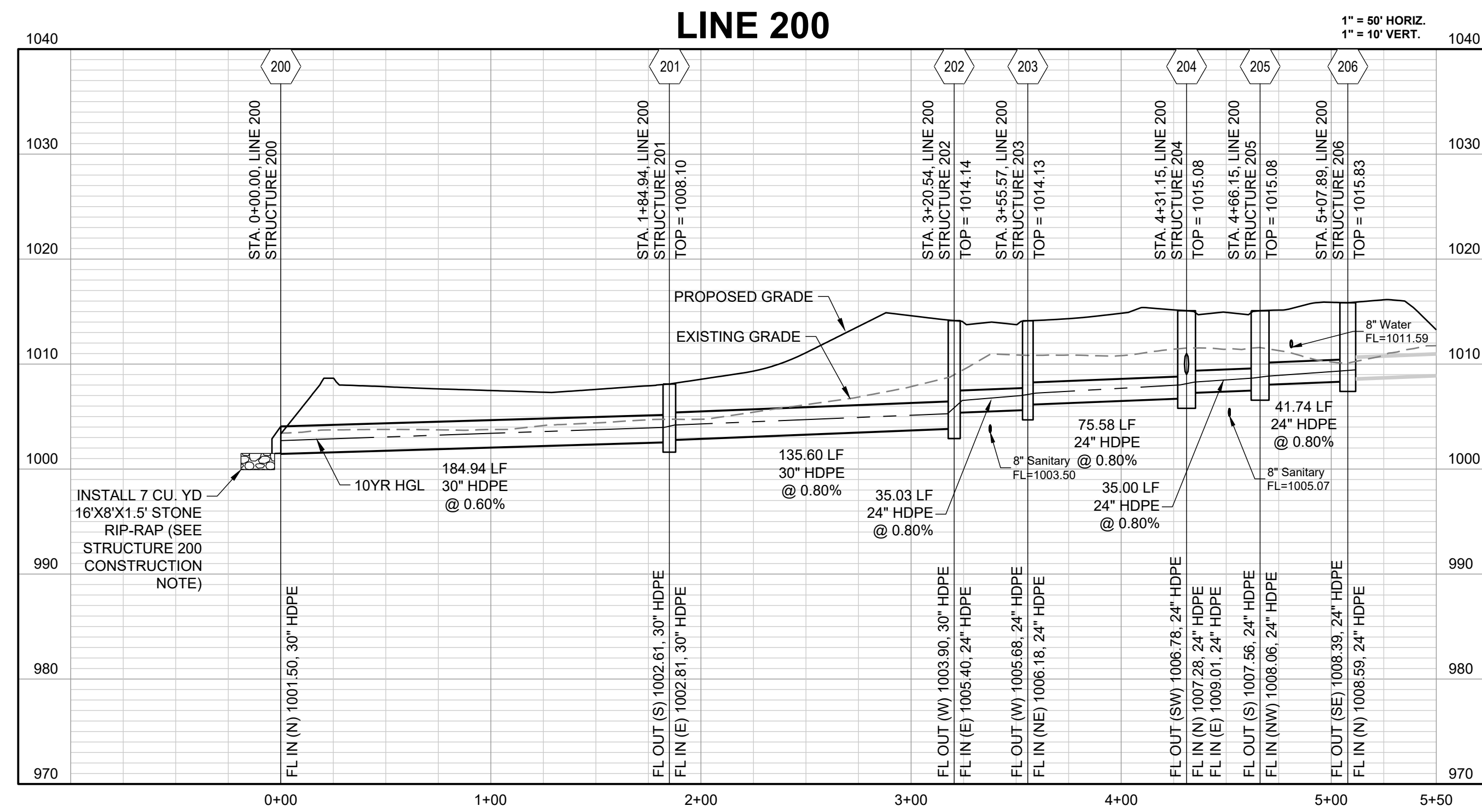
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CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
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11/30/2023	Added "New City Requirements" Note

STORM PLAN
 SHEET
11

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**CORNERSTONE AT BAILEY FARMS, FIRST PLAT
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 PLAN
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DRAWN BY: JRJ	CHECKED BY: JLL	DATE PREPARED: 12/20/21	PROJ. NUMBER: 21-136
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Lee's Summit, Missouri

12/14/2023



PREPARED BY:



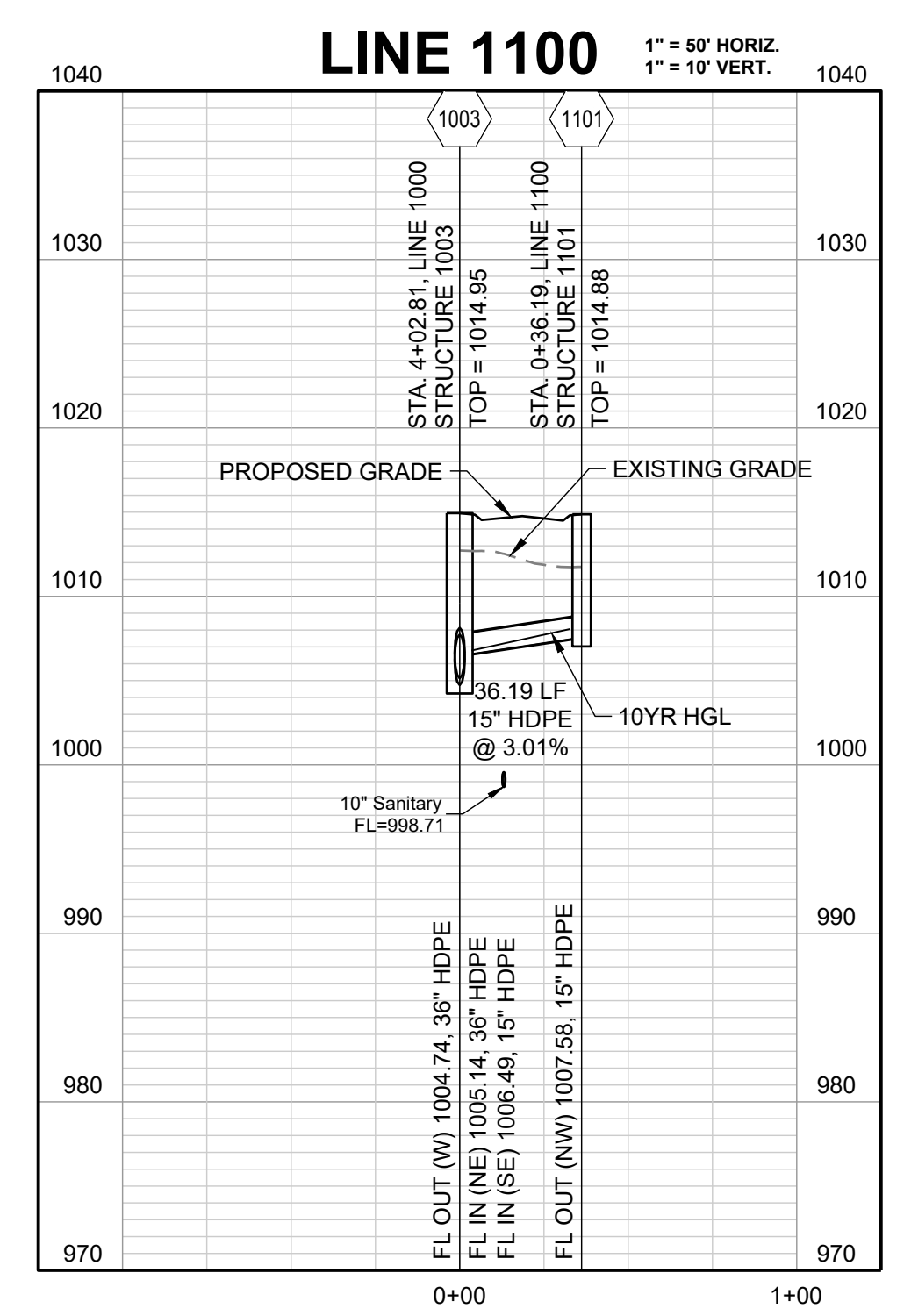
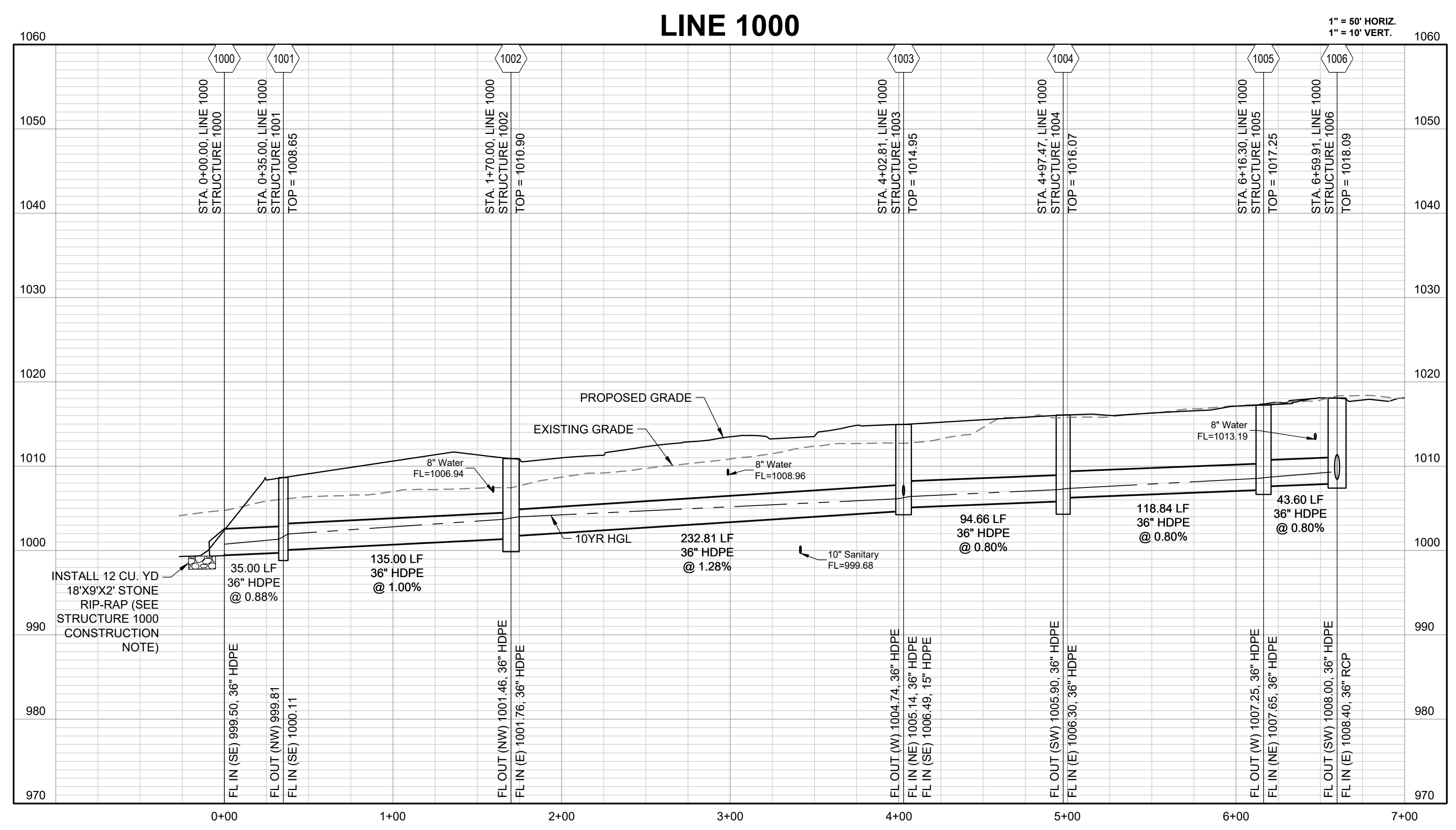
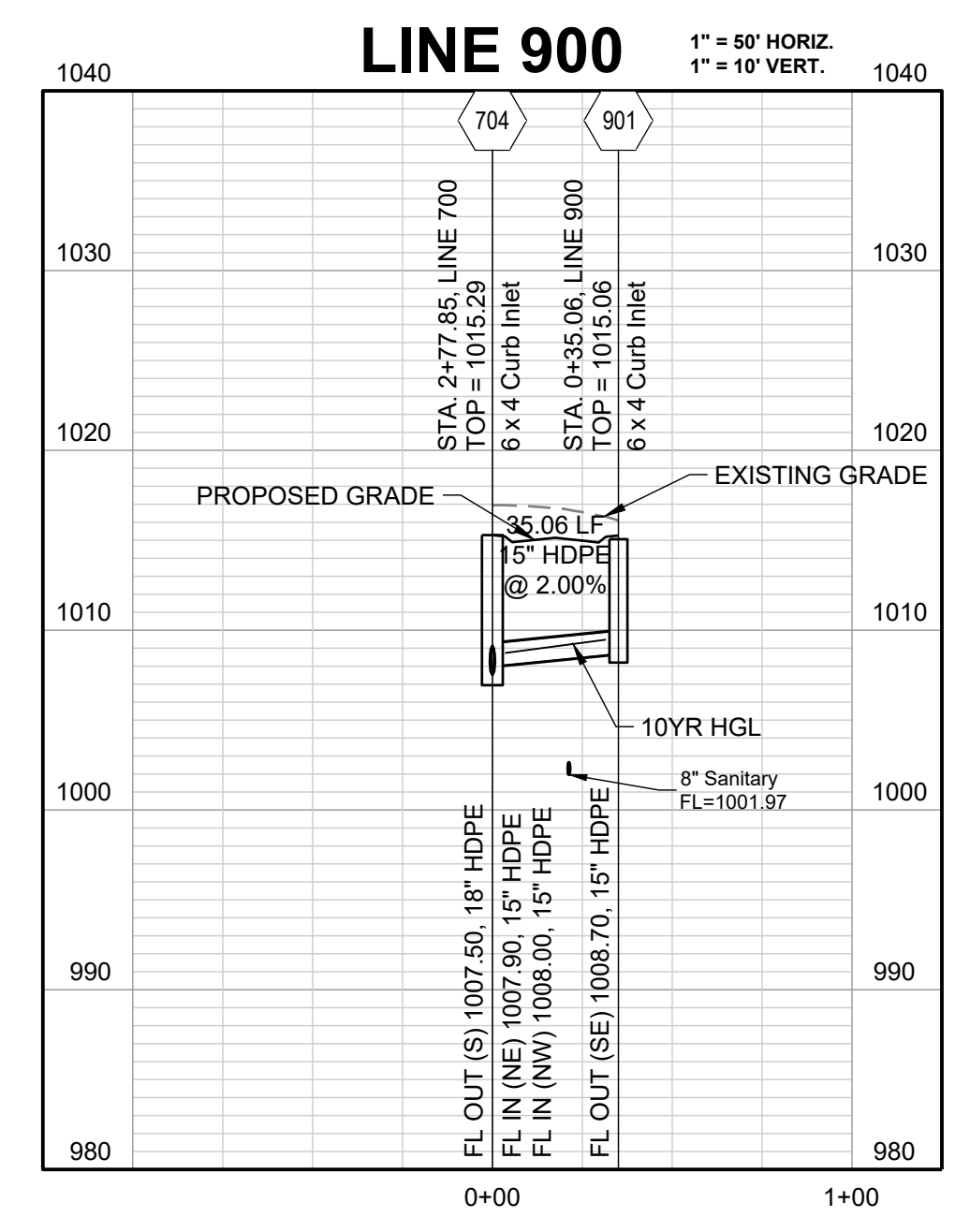
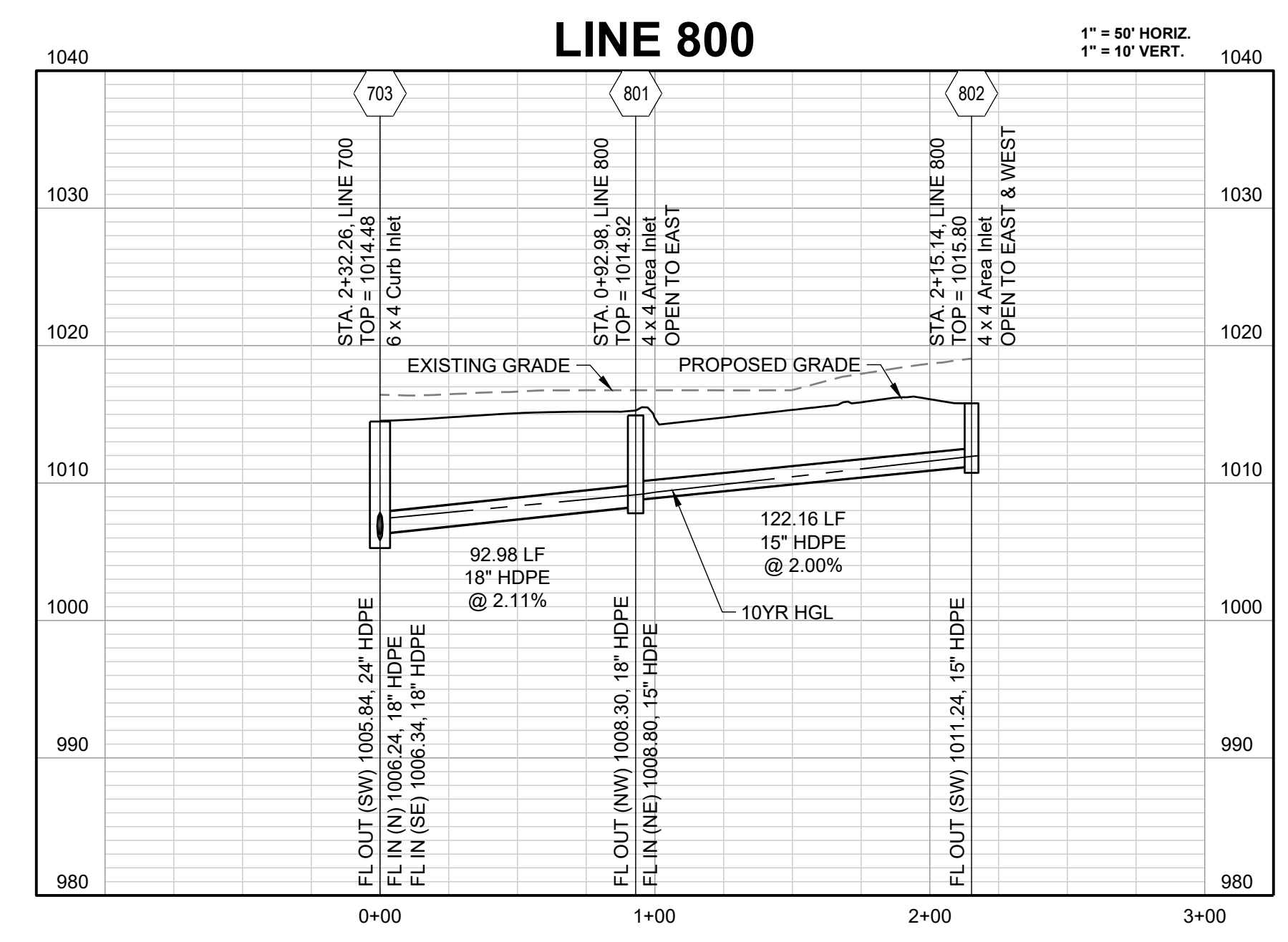
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STREET, STORMWATER, AND MASTER DRAINAGE
PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

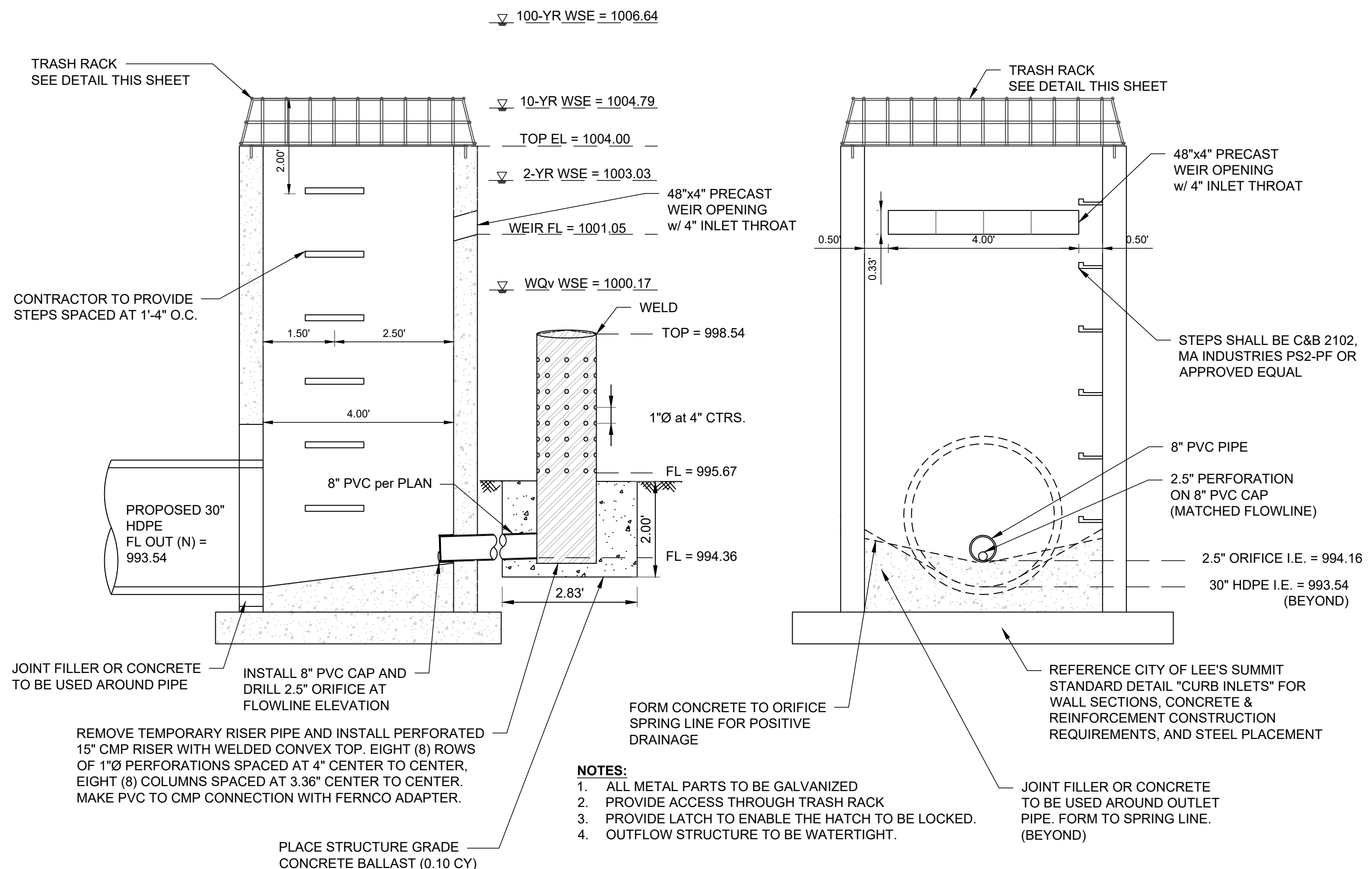
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STORM PROFILE
2

SHEET
13

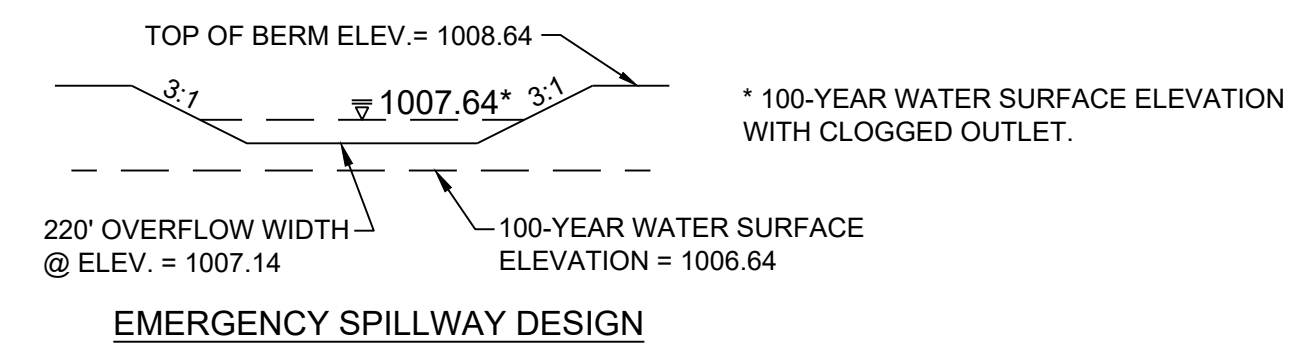


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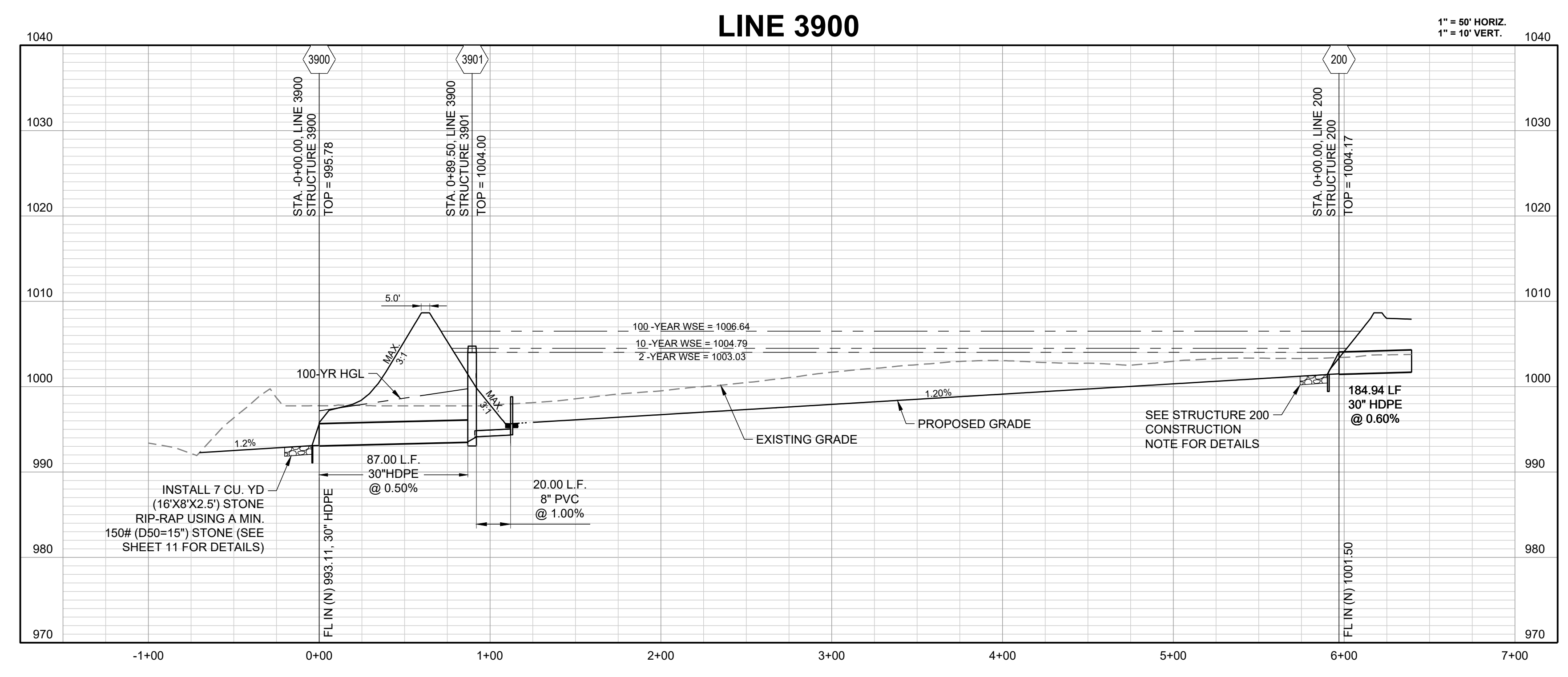
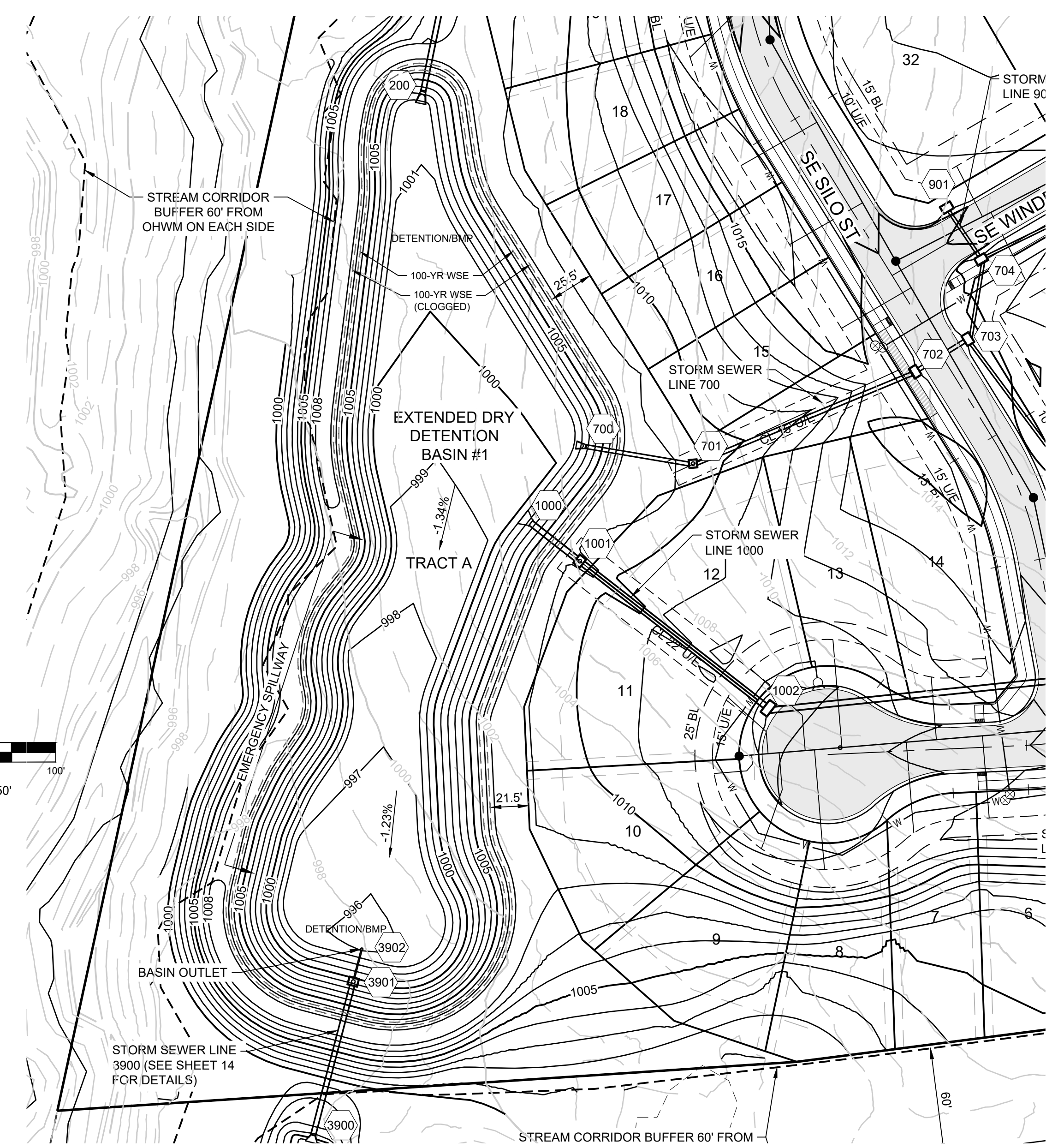
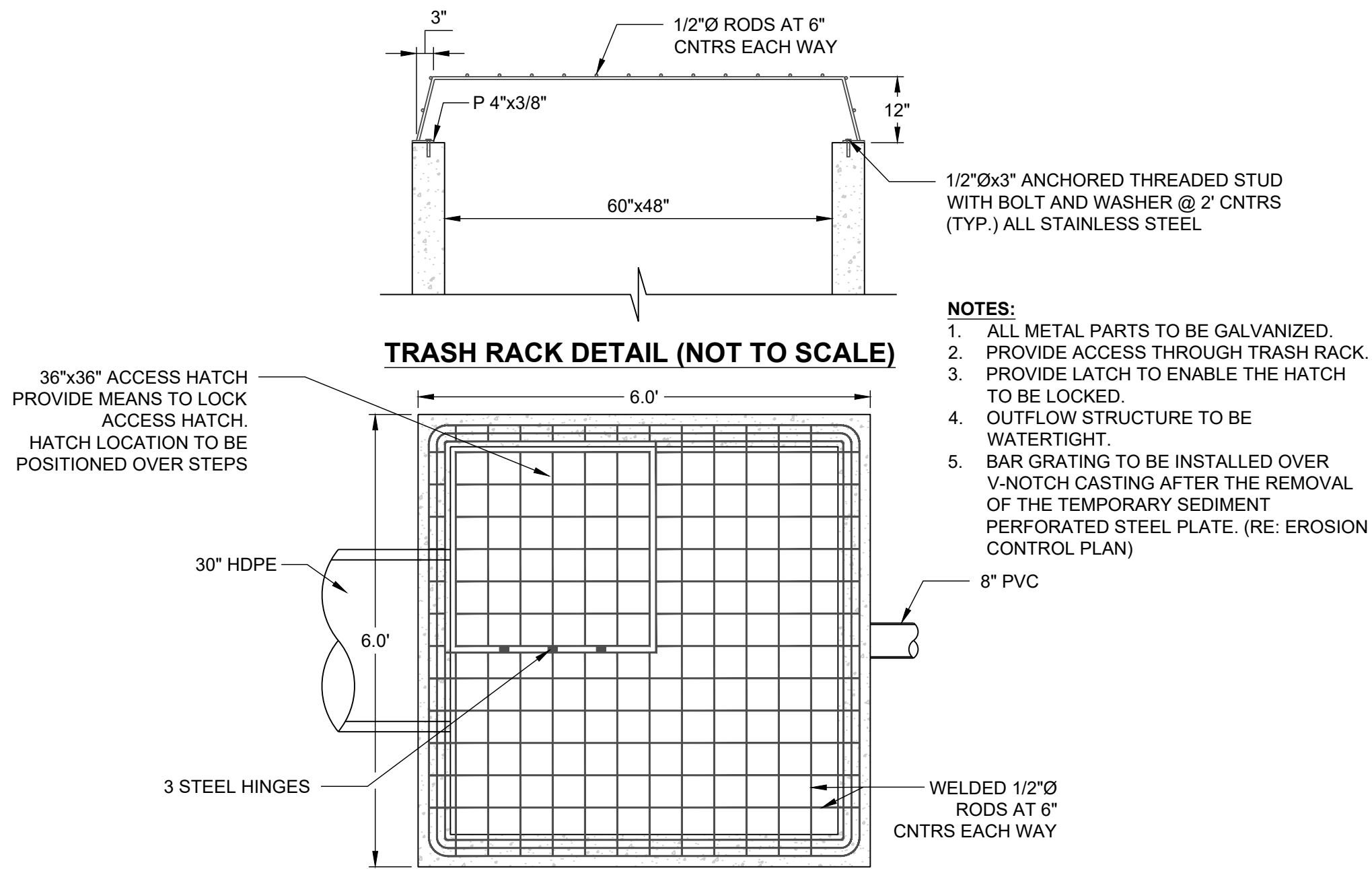
WATER QUALITY STRUCTURE 3901
(NOT TO SCALE)

DETENTION STORAGE:
100 YEAR, 24 HR. RAINFALL - MAXIMUM WSE = 1006.64
(SEE FINAL STORMWATER MGMT. PLAN)
EMERGENCY SPILLWAY FLOWLINE SET AT 0.5 FEET ABOVE MAX. WSE, SPILLWAY ELEV. = 1007.14
EMERGENCY SPILLWAY DESIGN:
Q(100) = 260.19 CFS, Q = CLH^{3/2}, C = 3.33,
L = 220 FT., 260.19 CFS = 3.33 * 220 FT. * (H^{3/2}), H = 0.5 FT.
WATER SURFACE ELEVATION THROUGH SPILLWAY = 1007.64
+ ONE (1) FOOT OF FREEBOARD = 1008.64
SET BASIN TOP AT 1008.64



DESIGN STORM	VOLUME (CUBIC FEET)
2-YEAR	164,409
10-YEAR	249,634
100-YEAR	352,702

NOTE:
DETENTION / SEDIMENT BASIN SHALL BE CONSTRUCTED ALONG WITH ALL OTHER EROSION CONTROL AND SEDIMENT CONTROL DEVICES AND PRIOR TO ANY INFRASTRUCTURE BEING CONSTRUCTED.



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#E200200360F #LAC200100237 #LS200200859F

PREPARED BY:
JAMES L. LONG
11/30/2023
PROFESSIONAL ENGINEER
SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE
PLAN
SE BAILEY ROAD AND SE RANSON ROAD
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DETENTION BASIN DESIGN

SHEET 14

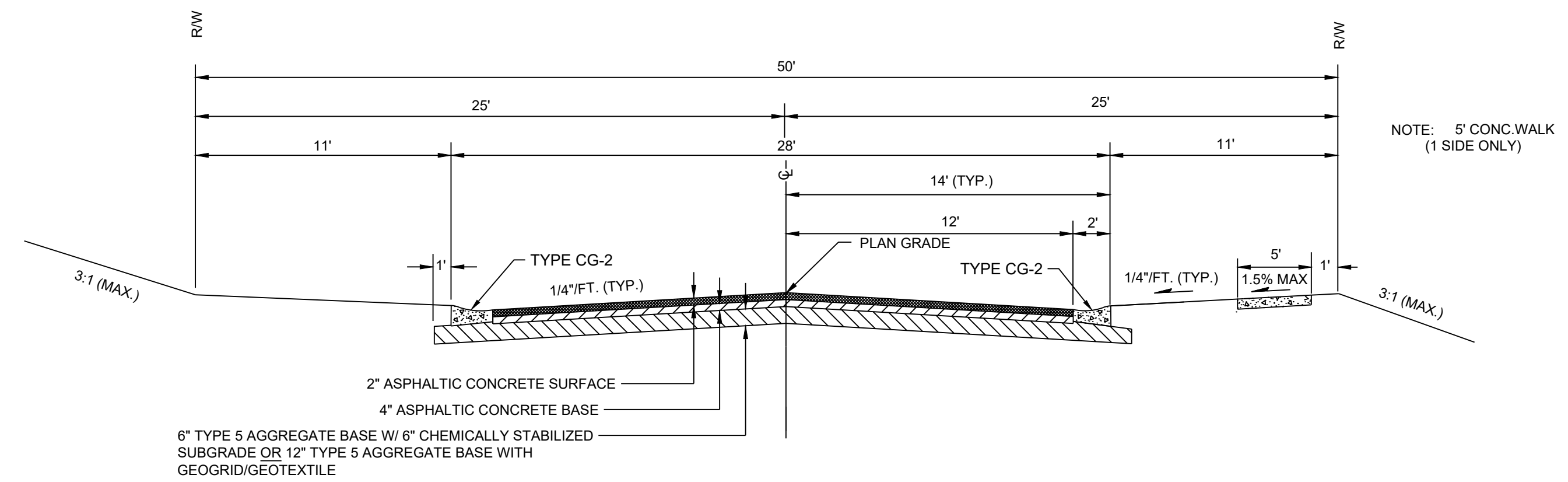
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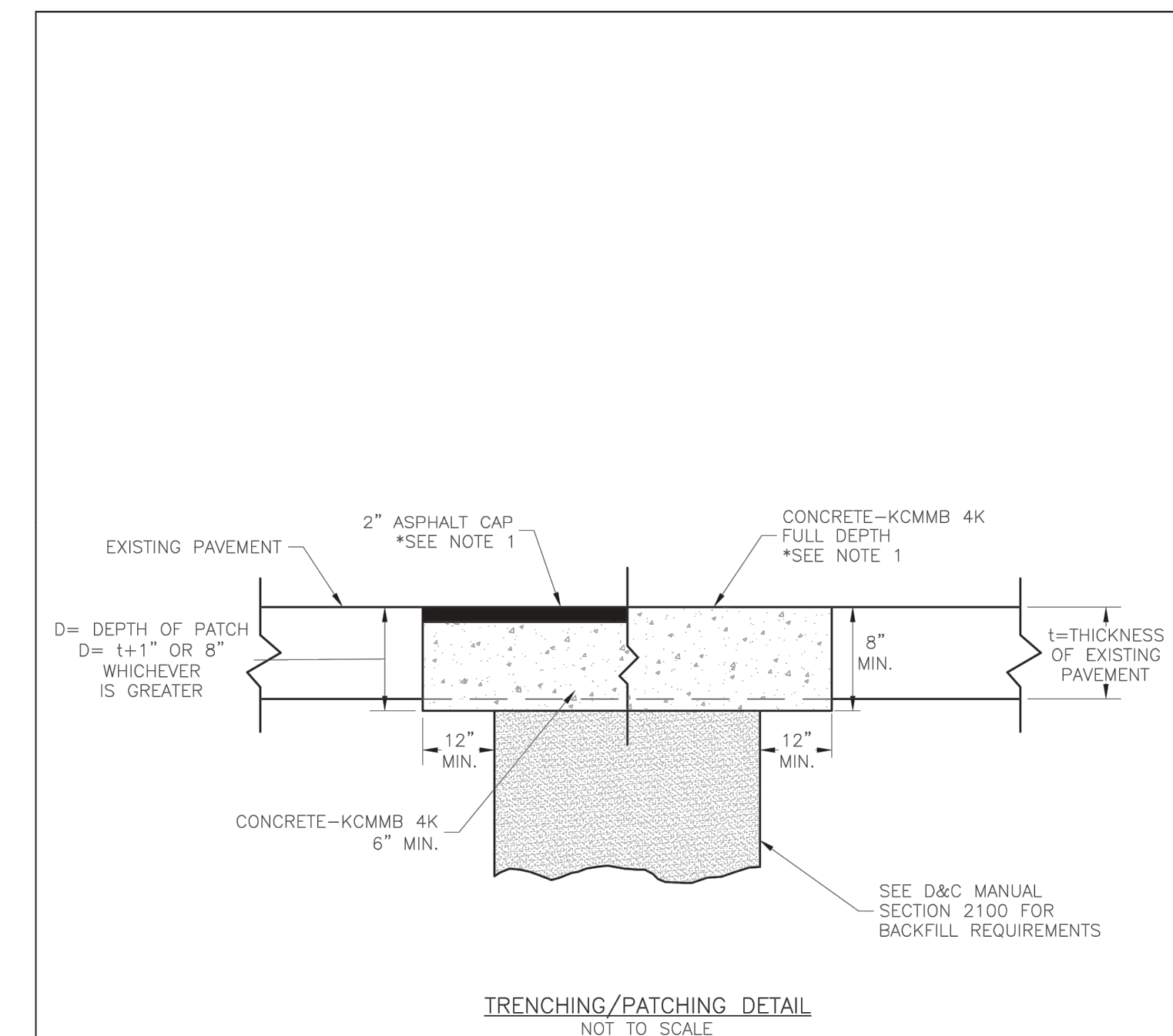
TABLE LS-2: MINIMUM ASPHALT PAVEMENT THICKNESSES

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

Notes:
(1) Geogrid shall be polypropylene material and Geotextile shall be woven, polypropylene as shown in the City's Approved Products List



ASPHALT MIX:
Surface: 5-01
Base: 5-01



NOTE:
1. ASPHALT CAP OR FULL DEPTH CONCRETE SHALL BE DETERMINED BY CITY INSPECTOR.

LS	LEE'S SUMMIT MISSOURI	Date: 05/2023
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: MJF
	TRENCHING/PATCHING ROADWAYS DETAIL	Checked By: DL
	GEN-5	

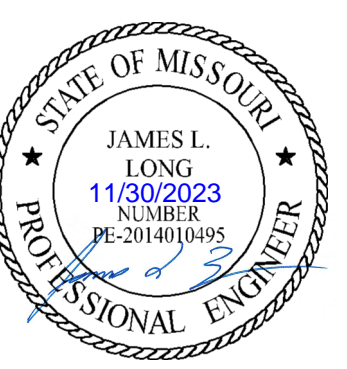
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July 2020

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PREPARED BY:



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CORNERSTONE AT BAILEY FARMS, FIRST PLAT
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DRAWN BY:	JRJ
CHECKED BY:	JLL
DATE PREPARED:	1/22/2021
PROJ. NUMBER:	21-136

STREET DETAILS
1

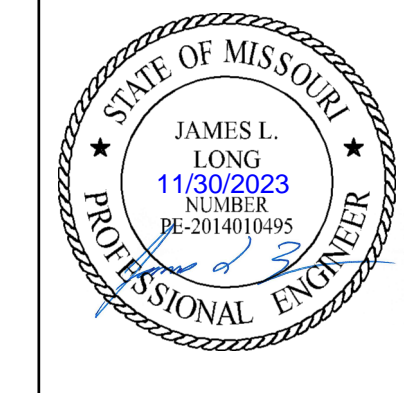
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GEN-1
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
PUBLIC WORKS ENGINEERING DIVISION | 230 S. GREEN STREET | LEE'S SUMMIT, MO 64063

GEN-3A
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
PUBLIC WORKS ENGINEERING DIVISION | 230 S. GREEN STREET | LEE'S SUMMIT, MO 64063

GEN-4
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
PUBLIC WORKS ENGINEERING DIVISION | 230 S. GREEN STREET | LEE'S SUMMIT, MO 64063

GEN-3B
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
PUBLIC WORKS ENGINEERING DIVISION | 230 S. GREEN STREET | LEE'S SUMMIT, MO 64063

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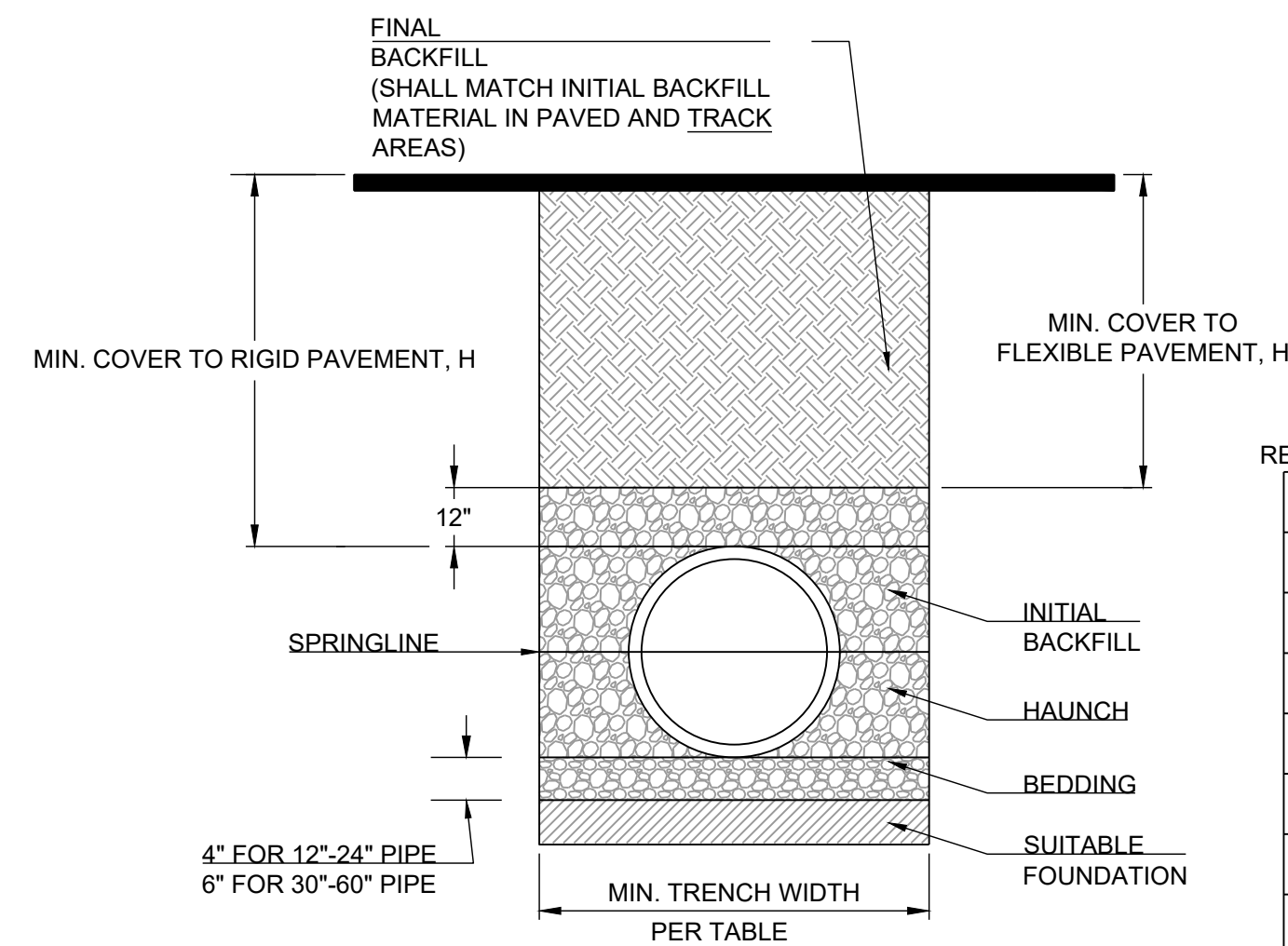
STREET DETAILS
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SHEET
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Lee's Summit, Missouri

12/14/2023



PIPE DIAM.	MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS	
	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

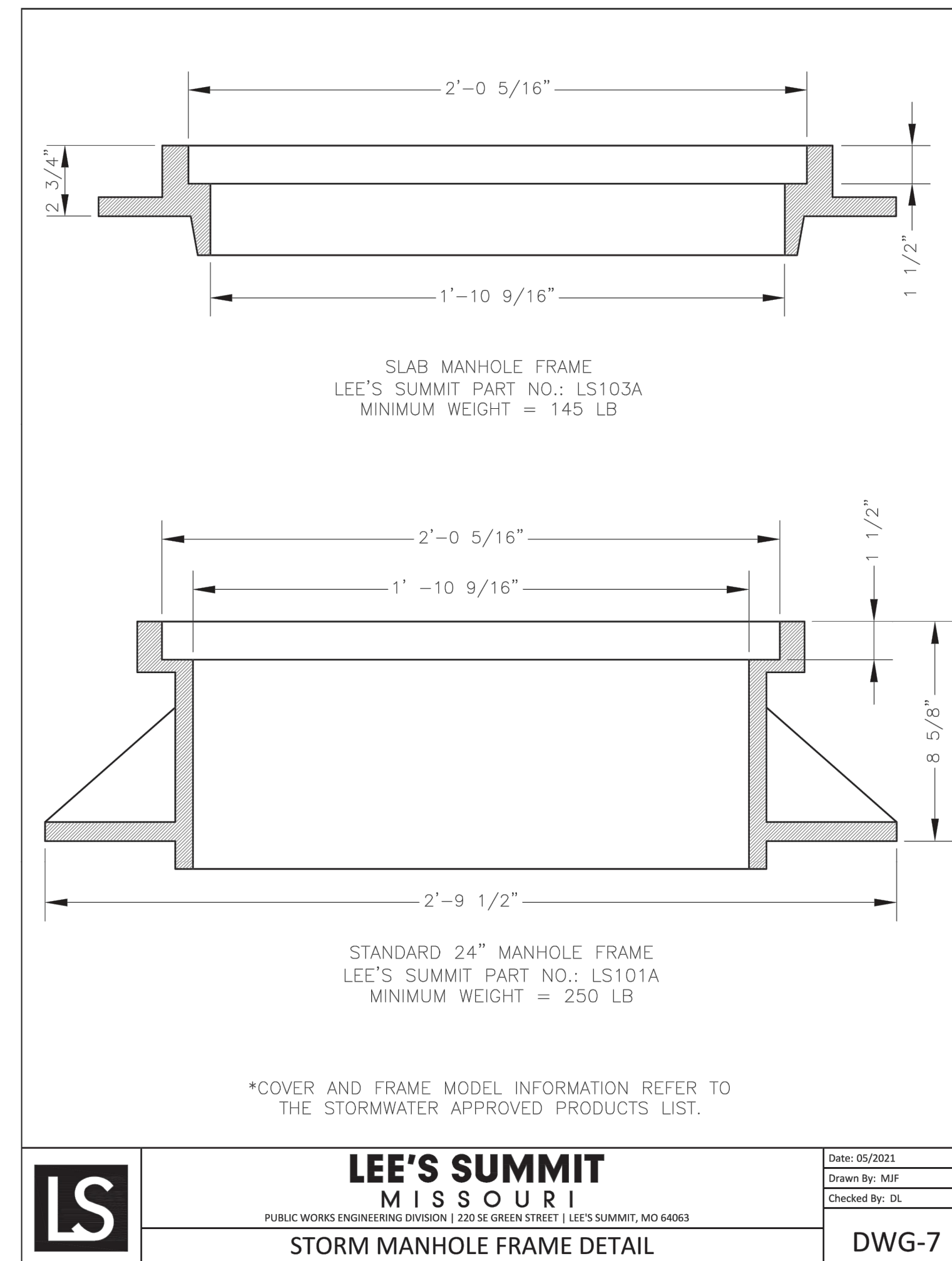
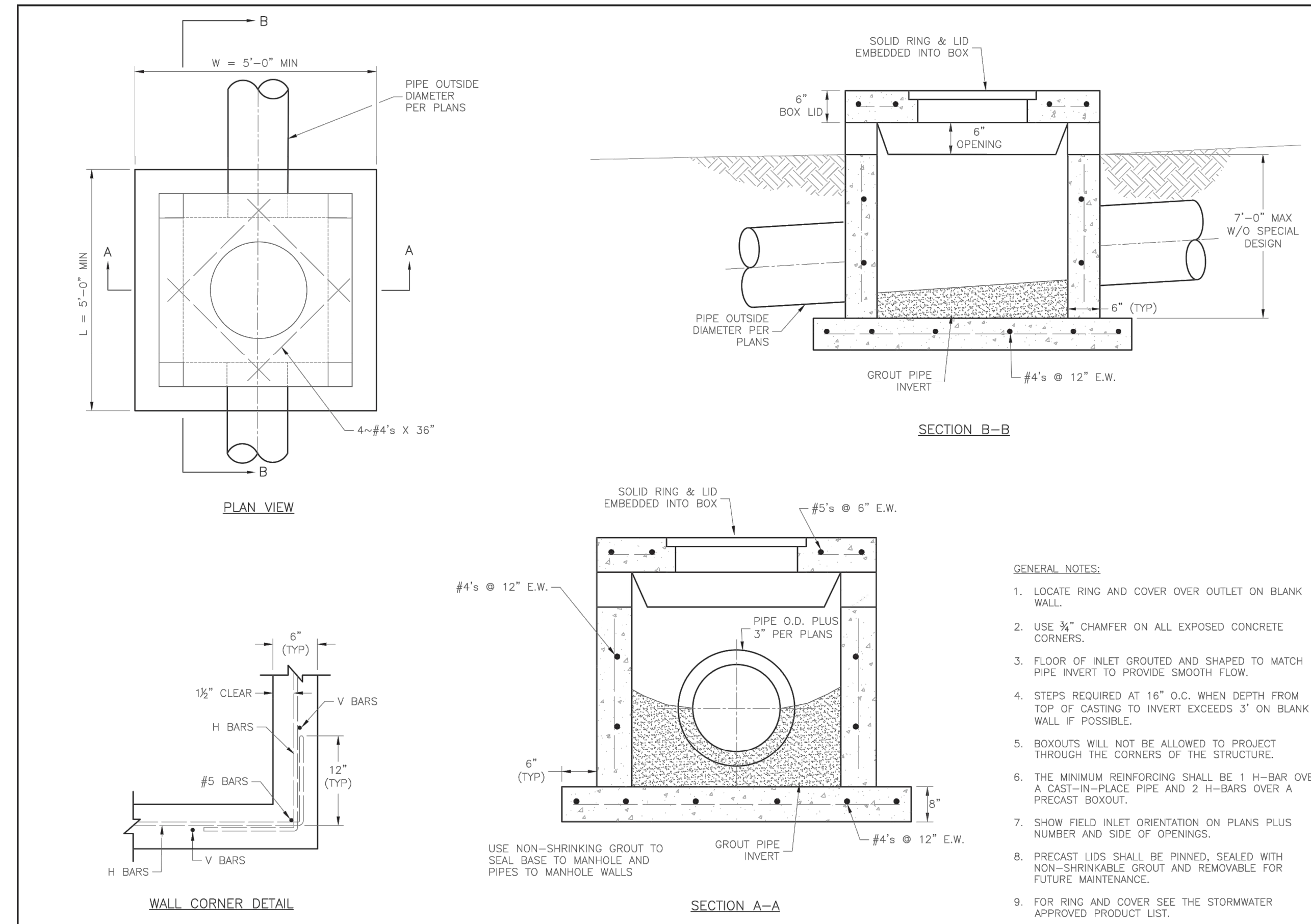
* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



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

DATE: 05/2021
DRAWN BY: MJF
CHECKED BY: DL
DWG-7

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

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
FIELD INLET DETAIL
STM-2

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PREPARED BY:
JAMES L. LONG
11/30/2023
NUMBER BE-2014010495
PROFESSIONAL ENGINEER

SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
CORNER STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

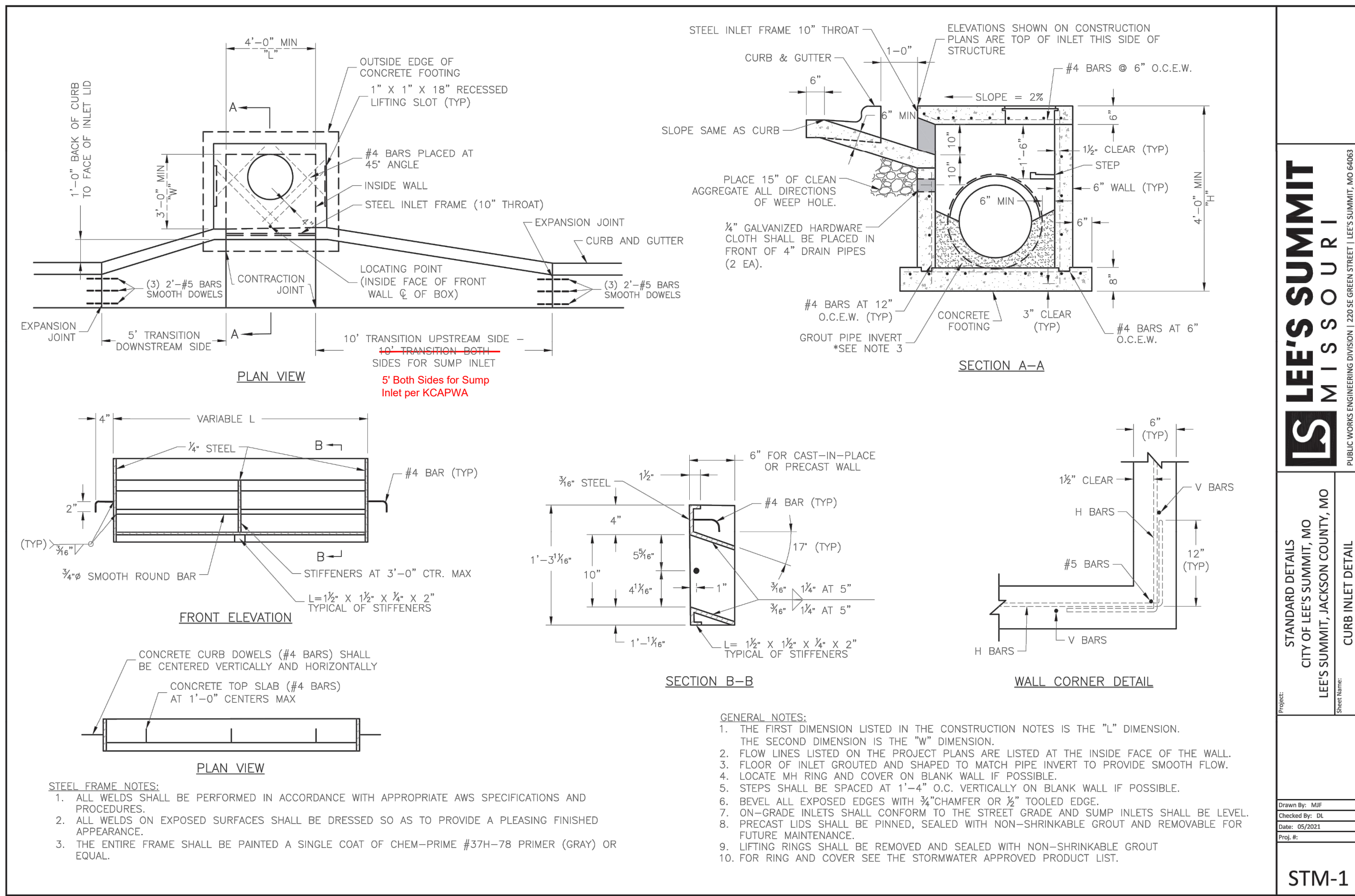
REVISION DATE	DESCRIPTION
02/03/2022	PER CITY COMMENTS DATED 01/10/2022
04/20/2022	PER CITY COMMENTS DATED 02/28/2022
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11/30/2023	Added "New City Requirements" Note

DRAWN BY: JRJ
CHECKED BY: JLL
DATE PREPARED: 12/20/21
PROJ. NUMBER: 21-136

STORM DETAILS

SHEET
17

I:\PROJECTS\2021\21-136\3.0 DWG Plans\3.0 DWG Plans\3.0 DET.dwg, STORM DETAIL SHEET, 11/30/2023 7:22:46 AM, 1:1



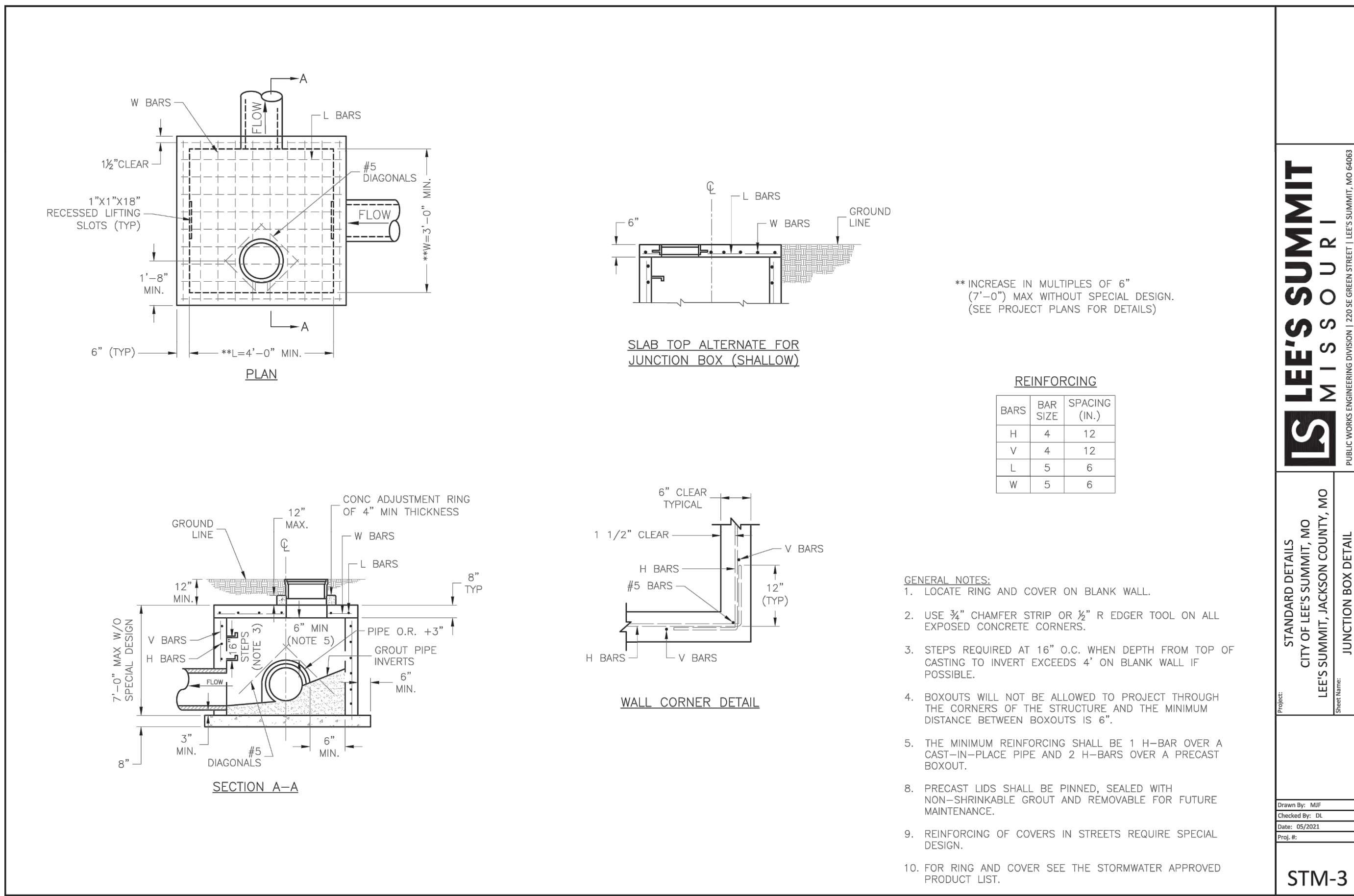
LEE'S SUMMIT MISSOURI

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STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #: STM-1

STM-1



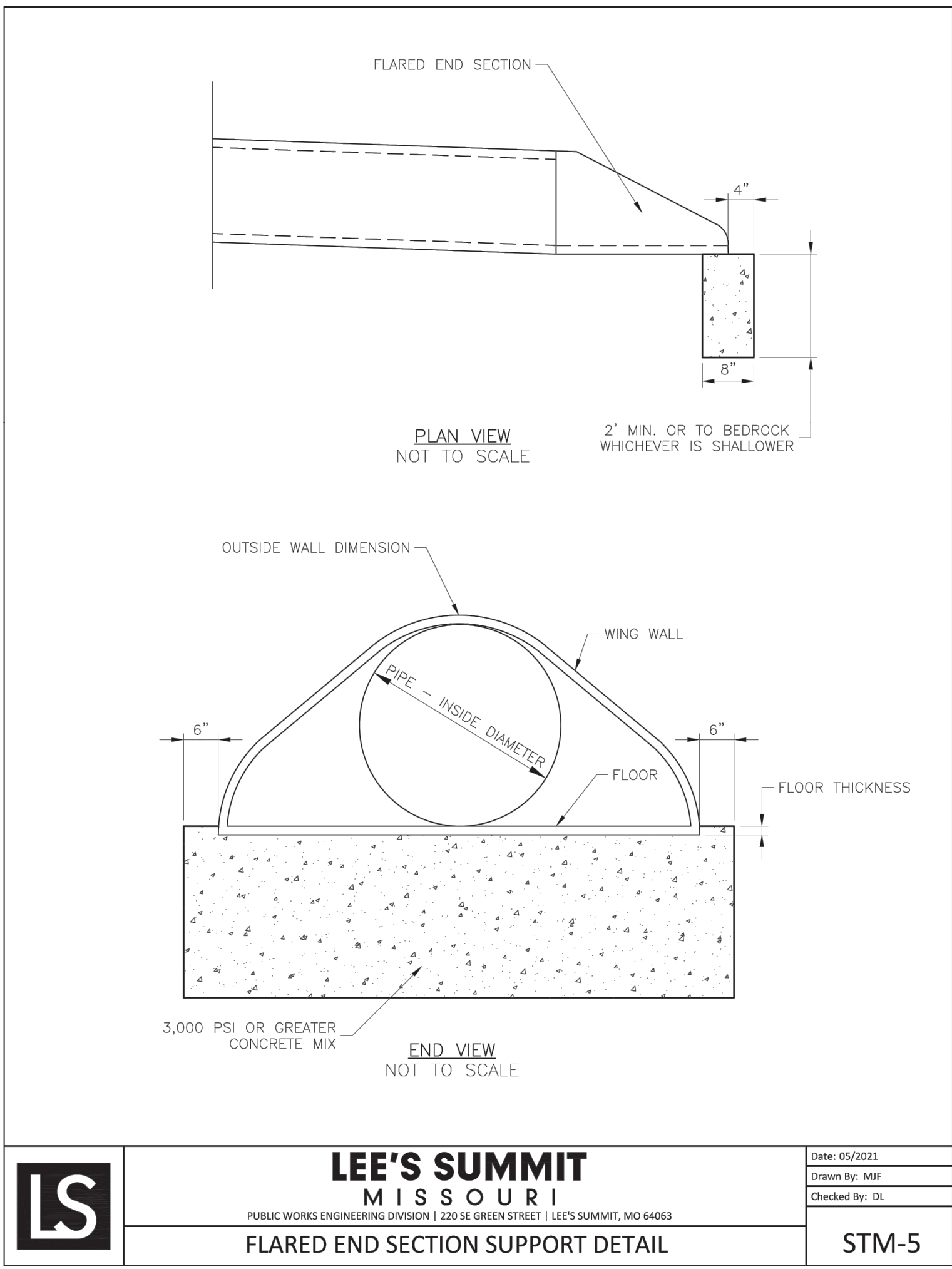
LEE'S SUMMIT MISSOURI

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STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

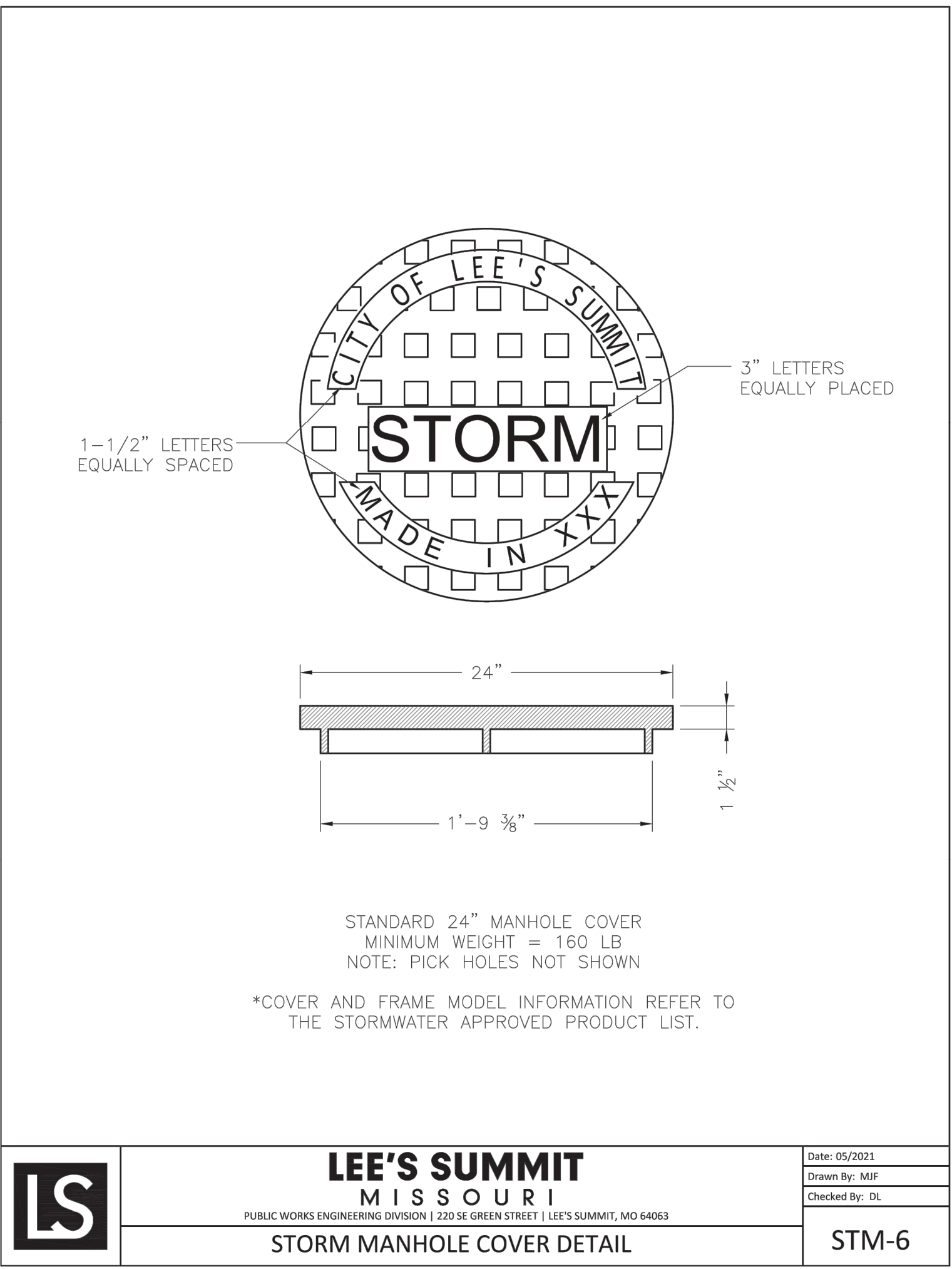
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Date: 05/2021
Proj. #: STM-3

STM-3



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Lee's Summit, Missouri
12/14/2023



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CHECKED BY: JLL
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PROJ. NUMBER: 21-136

I:\PROJECTS\2021\21-136\3.0 Design\3.0 DWG Plans\6.0 SS\21-136-SS-SIGN PLAN.dwg, SIGNAGE PLAN, 11/30/2023 7:23:29 AM, 11



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PREPARED BY:

JAMES L. LONG
 11/30/2023
 NUMBER
 EX-2014010495
 PROFESSIONAL ENGINEER

SCHLAGEL & ASSOCIATES, P.A.

**CORNERSTONE AT BAILEY FARMS, FIRST PLAT
 STREET, STORMWATER, AND MASTER DRAINAGE PLAN**

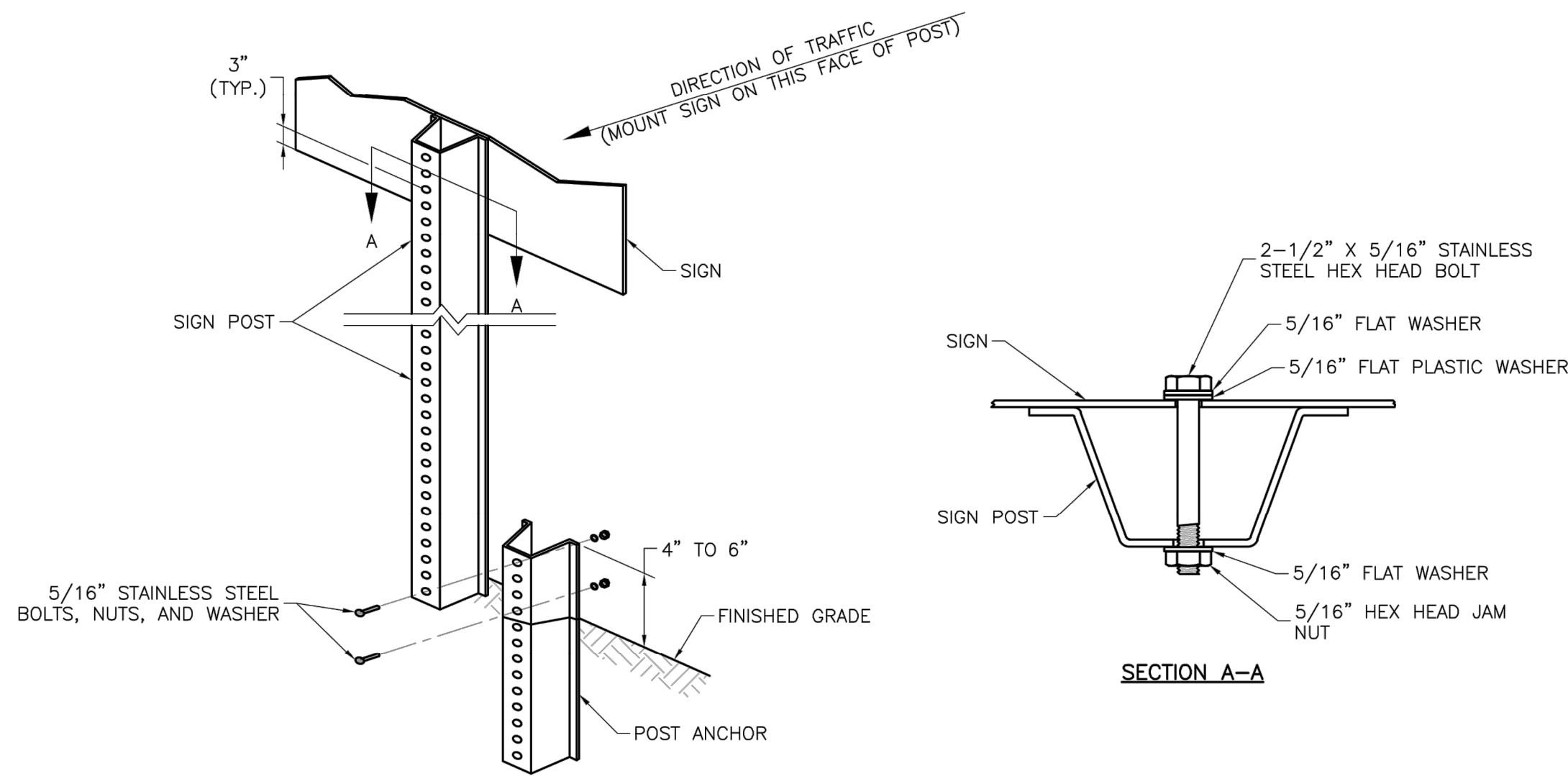
**SE BAILEY ROAD AND SE RANSON ROAD
 LEE'S SUMMIT, MISSOURI**

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SIGNAGE PLAN

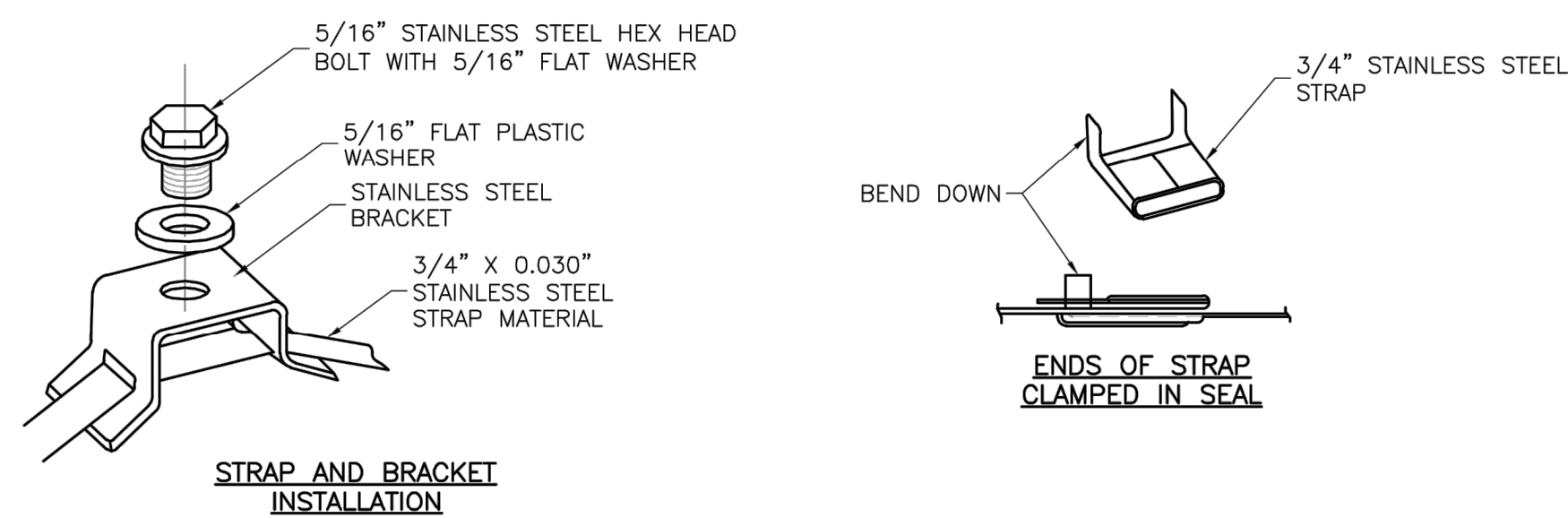
SHEET
19



U-STEEL POST DETAILS

NOTES:

1. SPLICE SHALL BE POSITIONED ENTIRELY BETWEEN FINISHED GRADE LINE AND 18" ABOVE FINISHED GRADE LINE. ONLY ONE SPLICE WILL BE ALLOWED PER POST.
2. U-STEEL POST SHALL BE 3 LB./FT., GALVANIZED ACCORDING TO ASTM A123.
3. U-STEEL POST CAN BE USED FOR INSTALLATION OF SIGNS WITH AN AREA OF LESS THAN 2.5 SQUARE FEET.
4. ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.



STRAP TYPE SIGN SUPPORT DETAILS

NOTES:

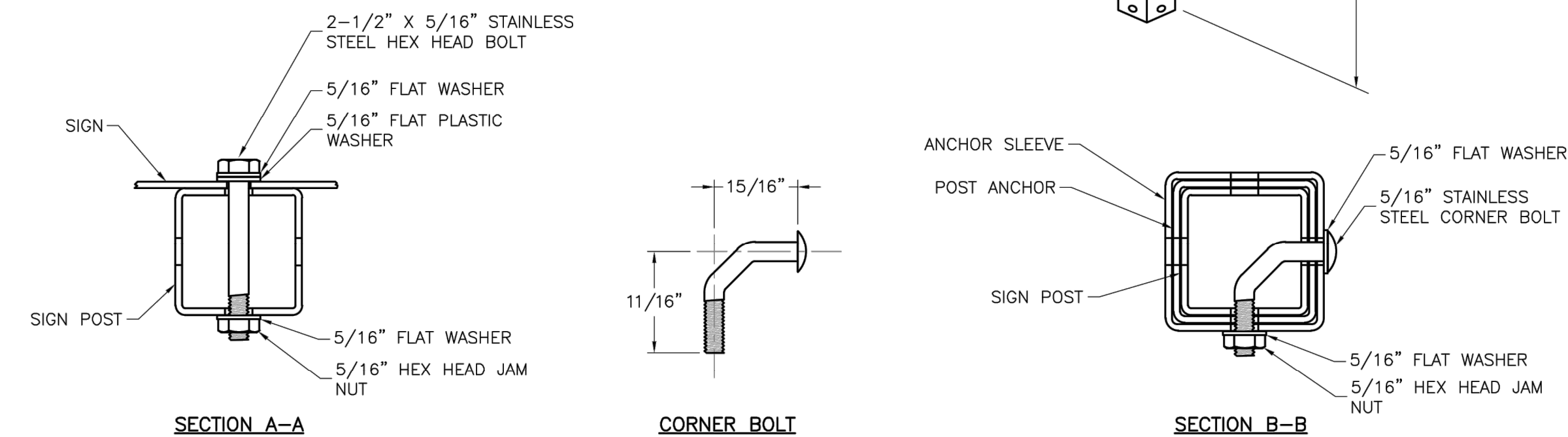
1. SIGNS ON METAL POLES SHALL BE ATTACHED WITH TWO BRACKETS AND STAINLESS STEEL BANDS.
2. HOLES IN SIGN FOR ATTACHMENT TO THE MOUNTING BRACKETS SHALL BE OFFSET A MINIMUM OF 2 INCHES FROM THE EDGE OF THE SIGN.
3. HOLES IN SIGN SHALL BE LOCATED SUCH THAT THE SIGN IS LEVEL.
4. ALL STRAP, BRACKET, AND SEAL MATERIALS SHOULD BE TYPE 301 STAINLESS STEEL.

PERMANENT SIGNING GENERAL NOTES:

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY AND ALL UTILITIES WHEN INSTALLING SIGN POSTS, WHETHER THE UTILITY IS INDICATED ON THE PLANS OR NOT.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT.
4. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL SIGN POSTS TO BE INSTALLED. THE CITY INSPECTOR SHALL INSPECT THE STAKING PRIOR TO INSTALLATION. MINOR RELOCATION TO AVOID CONFLICTS MAY BE ALLOWED WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
5. SIGNS SHOWN TO BE INSTALLED ON THE SIDE OF METAL POLES SHALL BE MOUNTED WITH STAINLESS STEEL STRAPS OR WING BRACKETS AS DETAILED. NO SIGNS ARE TO BE INSTALLED ON WOOD POLES. SEE TRAFFIC SIGNAL STANDARD DRAWINGS FOR THE INSTALLATION OF SIGNS ON MAST ARMS.
6. ALL POST MOUNTED SIGNS SHALL BE INSTALLED WITH BREAKAWAY ANCHORS ACCORDING TO THE STANDARD DRAWINGS.
7. ALL EXISTING SIGNS WILL BE USED IN PLACE DURING CONSTRUCTION AND PROTECTED FROM DAMAGE UNLESS OTHERWISE INDICATED IN THE PLANS. IF THE CONTRACTOR DAMAGES ANY EXISTING SIGN OR POSTS DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE DAMAGED MATERIALS WITH NEW SIGNS OR POSTS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING ANY SIGNS THAT ARE TO BE REINSTALLED ON THE PROJECT. ALL EQUIPMENT SHALL BE REINSTALLED IN GOOD CONDITION.
8. EXISTING PERMANENT SIGNS AND POSTS REMOVED BY THE CONTRACTOR FOR CONSTRUCTION PURPOSES WHICH ARE NOT TO BE REINSTALLED SHALL BE DELIVERED TO THE CITY'S PUBLIC WORKS MAINTENANCE FACILITY (1971 SE HAMBLEN ROAD). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EQUIPMENT IN GOOD CONDITION AND IS FULLY RESPONSIBLE FOR THE EQUIPMENT UNTIL IT IS DELIVERED.
9. ALL STOP, YIELD, OR STREET NAME SIGNS SHALL BE MAINTAINED IN A CONSPICUOUS LOCATION FOR THE DRIVING PUBLIC. ALL STOP AND YIELD SIGNS REMOVED FOR CONSTRUCTION PURPOSES CAN BE TEMPORARILY ERECTED IN REFLECTORIZED DRUMS (NO LESS THAN 7 FEET ABOVE THE PAVEMENT SURFACE) UNTIL THEY CAN BE REINSTALLED. ANY TEMPORARY STOP OR YIELD SIGN INSTALLATION TO BE LEFT IN PLACE OVERNIGHT WILL REQUIRE PRIOR APPROVAL FROM THE CITY INSPECTOR.

SQUARE STEEL POST INSTALLATION SEQUENCE:

1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO THE GROUND USING A DRIVE CAP WITH A SLEDGE OR POWER EQUIPMENT.
2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVE INTO THE GROUND TOGETHER WITH THE SIGN POST ANCHOR.
3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.



SQUARE STEEL POST DETAILS

NOTES:

1. SQUARE STEEL SIGN POSTS AND BREAK-AWAY ANCHOR SHALL CONSIST OF THE FOLLOWING MATERIALS:
SIGN POST - 14 GA. 2" X 2" SQUARE STEEL POST
POST ANCHOR - 12 GA. 2 1/4" X 2 1/4" X 36" SQUARE STEEL POST
ANCHOR SLEEVE - 12 GA. 2 1/2" X 2 1/2" X 18" SQUARE STEEL POST
2. 14 GA. POSTS MUST MEET A CERTIFIED MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. IN ALL INSTALLATIONS THE FIRST HOLE ABOVE THE FINISHED GRADE LINE ON THE SIGN POST, ANCHOR, AND ANCHOR SLEEVE MUST BE IN LINE FOR THE INSERTION OF THE CORNER BOLT.
4. THE MAXIMUM AREA FOR ONE SIGN POST IS 9.0 SQUARE FEET. A SIGN OR COMBINATION OF SIGNS WITH AN AREA GREATER THAN 9.0 SQUARE FEET WILL REQUIRE TWO POSTS. ALSO, SIGNS WITH A WIDTH GREATER THAN OR EQUAL TO 48" (NOT INCLUDING 36" X 36" DIAMOND SHAPED SIGNS) WILL REQUIRE TWO POSTS.

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MISSOURI

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

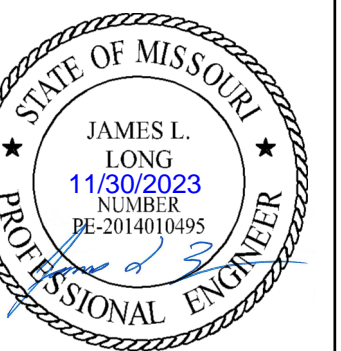
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

POST DETAILS

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

SN-2

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE PLAN

SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

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SIGN POST
DETAILS

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: SIGN MOUNTING DETAILS

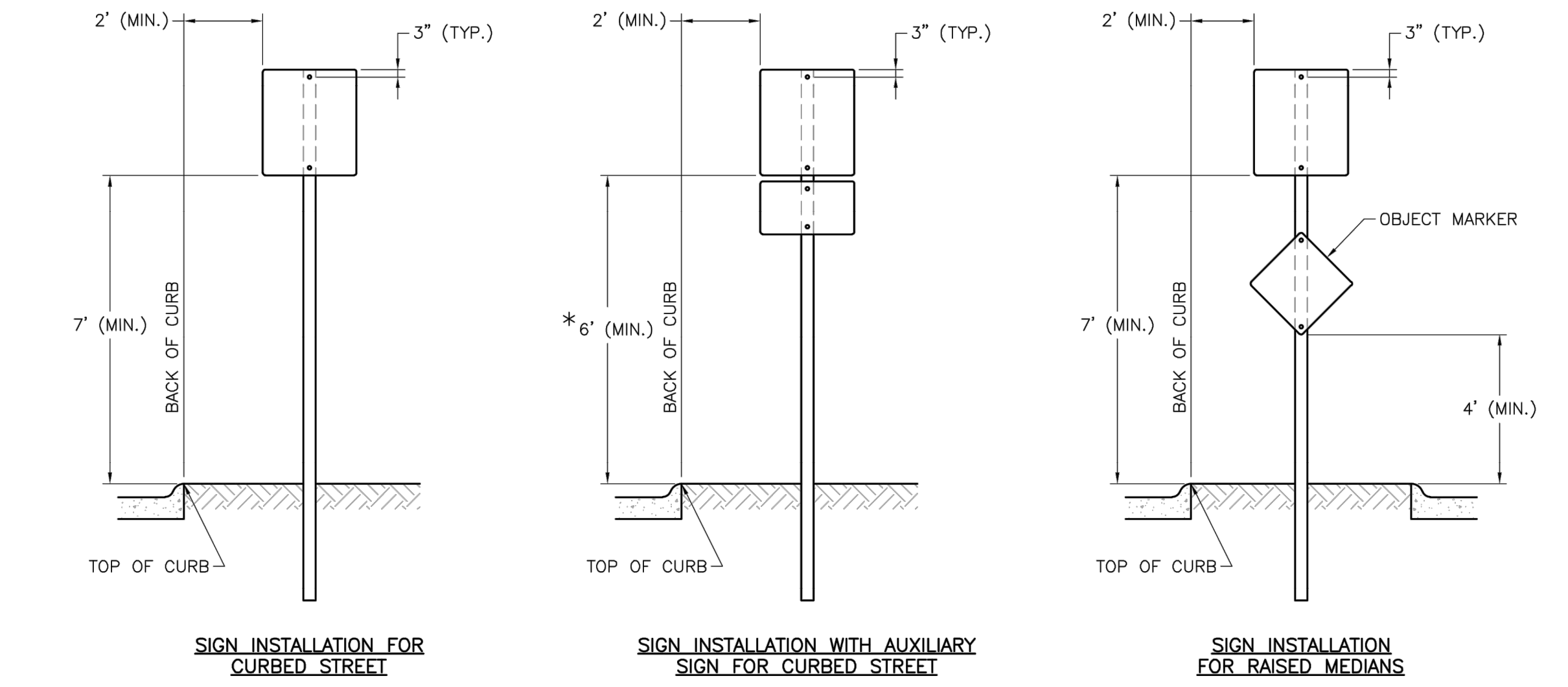
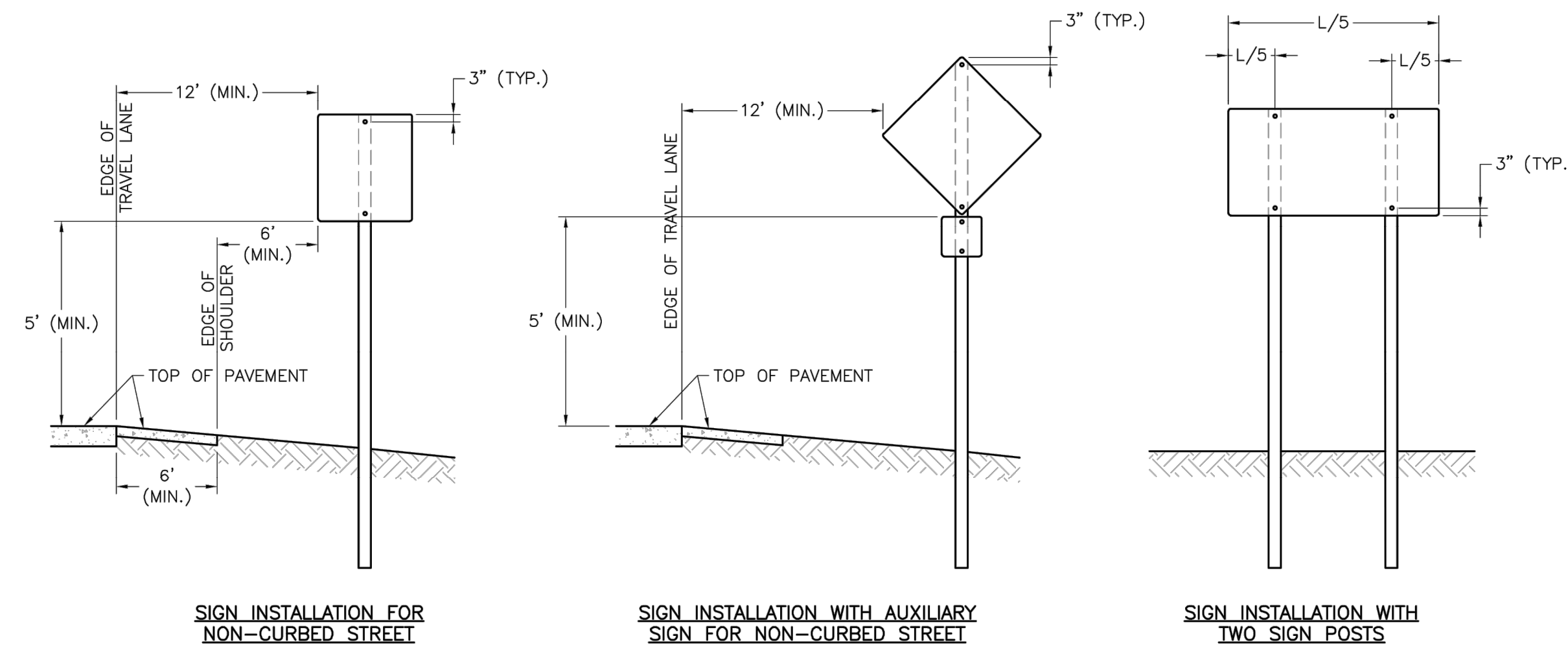
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Checked By: MP
Date: 01/2020
Proj. #:

SN-1

CORNERSTONE AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

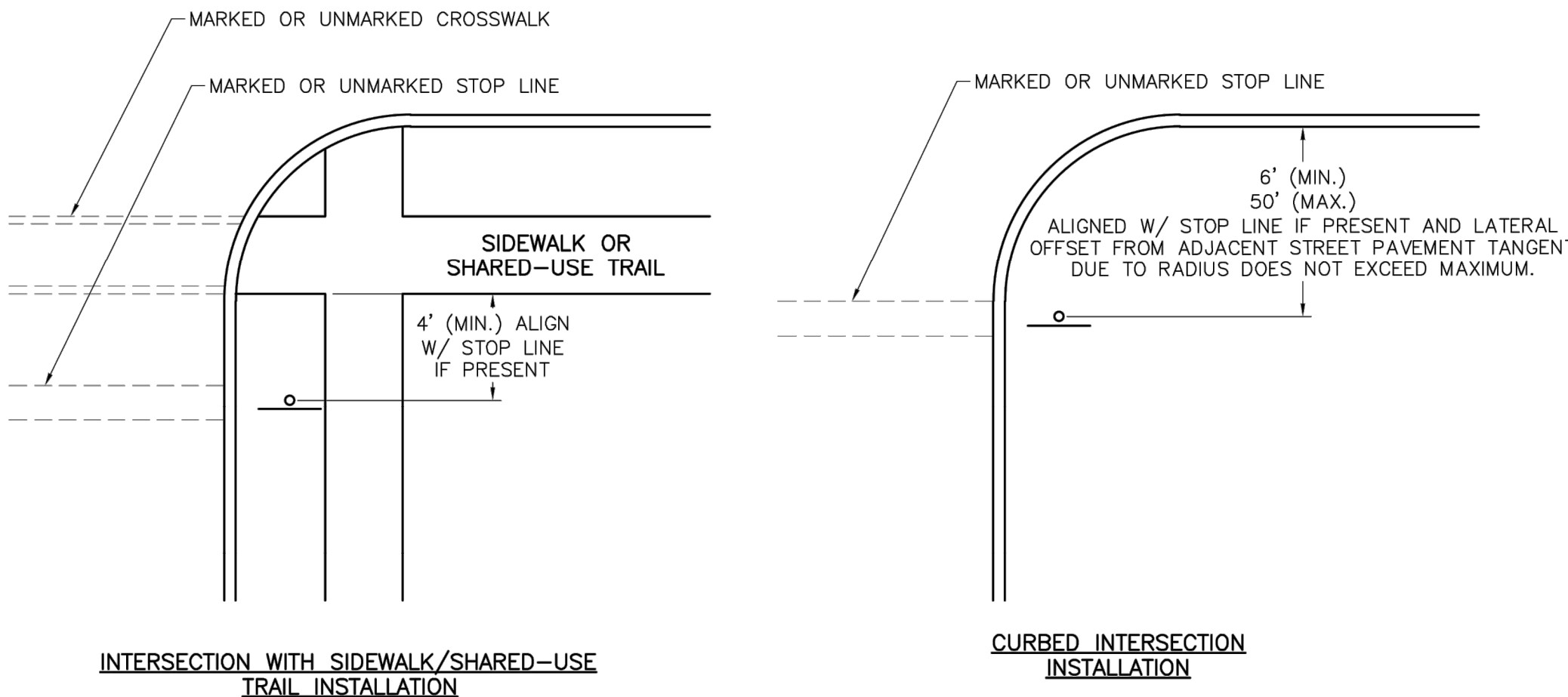
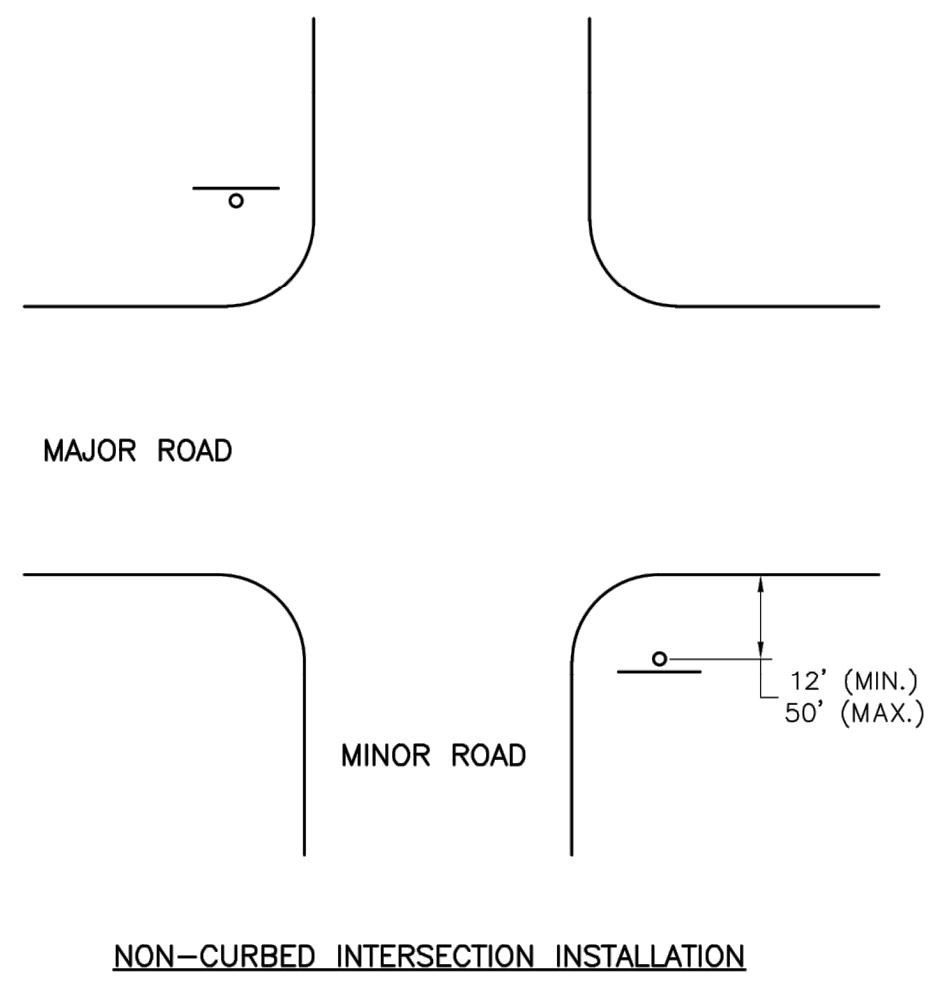
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SIGN MOUNTING DETAILS

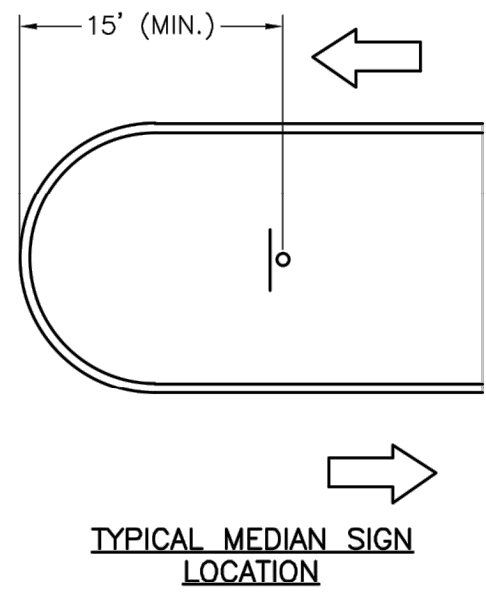


SIGN MOUNTING DETAILS

- NOTES:
1. GENERALLY, THE SIGN MOUNTING HEIGHT SHOULD NOT BE MORE THAN 1' GREATER THAN THE MINIMUM MOUNTING HEIGHT.
 2. *THE HEIGHT TO THE BOTTOM OF A SIGN WHEN IT IS LOCATED IN A PEDESTRIAN WALKWAY OR EXTENDS INTO A WALKWAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKWAY.



CONTROL SIGN LOCATION



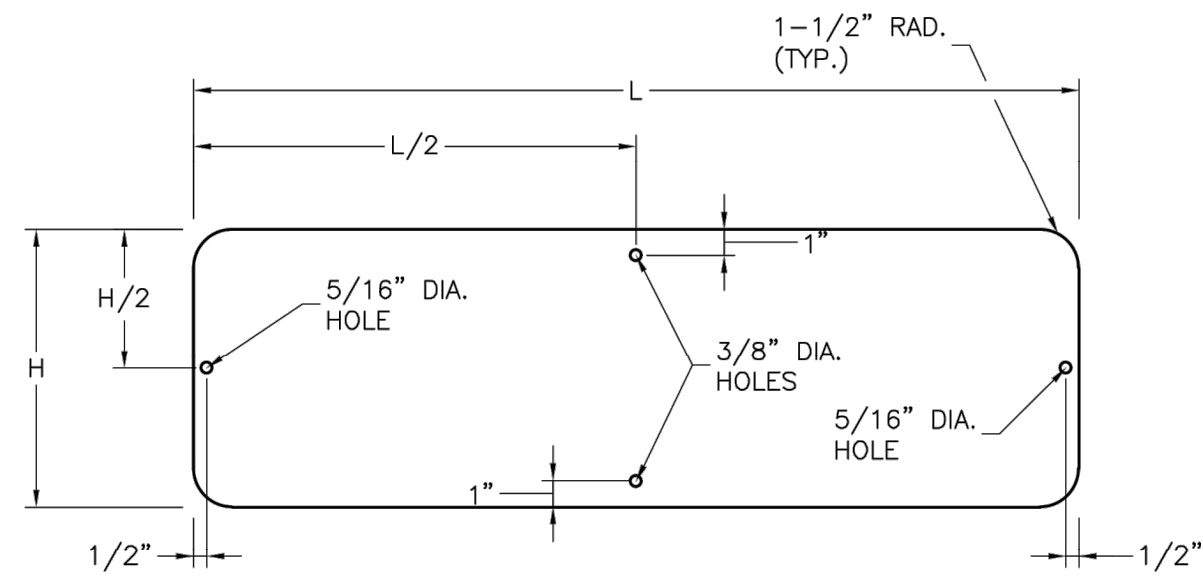
MEDIAN SIGN LOCATION

- NOTES:
1. A 4" P.V.C. SLEEVE SHALL BE INSTALLED IN NEW CONCRETE MEDIANS AT EACH LOCATION WHERE A SIGN IS TO BE INSTALLED.
 2. FOR EXISTING CONCRETE MEDIANS, A 4" HOLE SHALL BE CORED INTO THE CONCRETE.

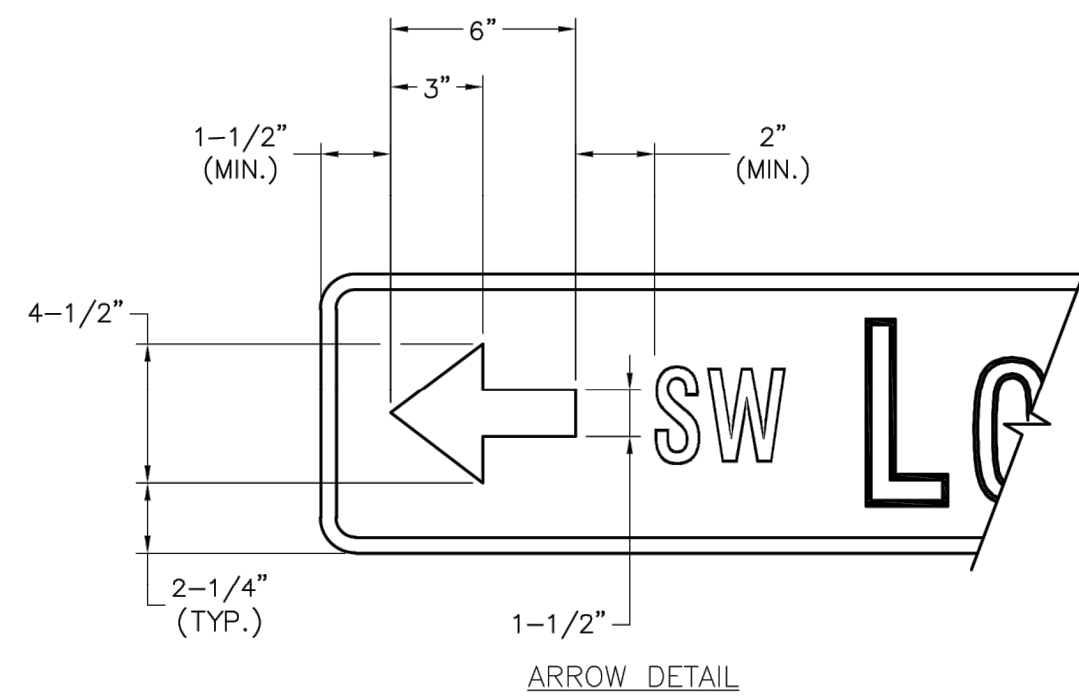
STANDARD ABBREVIATION LISTS

NAMED STREETS	
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
CREEK	Cr
COURT	Ct
CROSSING	Xing
DRIVE	Dr
HIGHWAY	Hwy
LANE	Ln
PARKWAY	Pkwy
PLACE	Pi
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Tri
WAY	Way

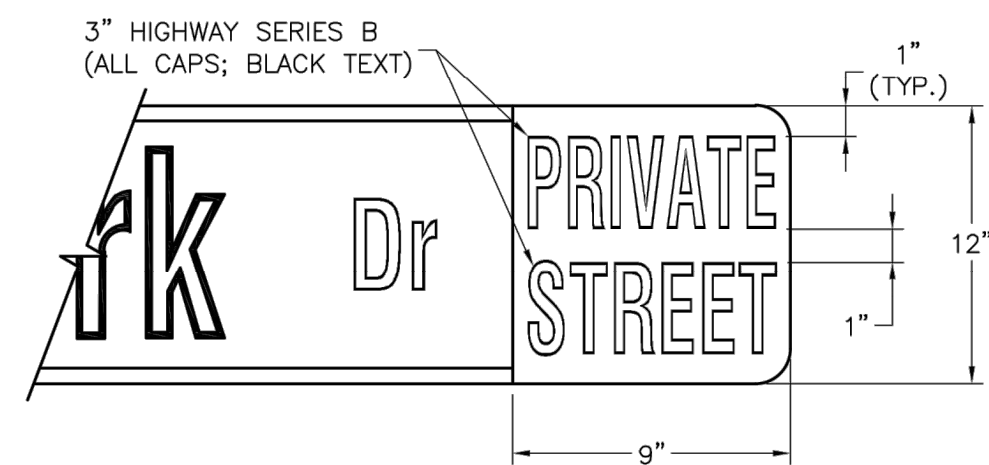
NUMBERED STREETS	
FIRST	ST
SECOND	ND
THIRD	RD
FOURTH TO TENTH	TH



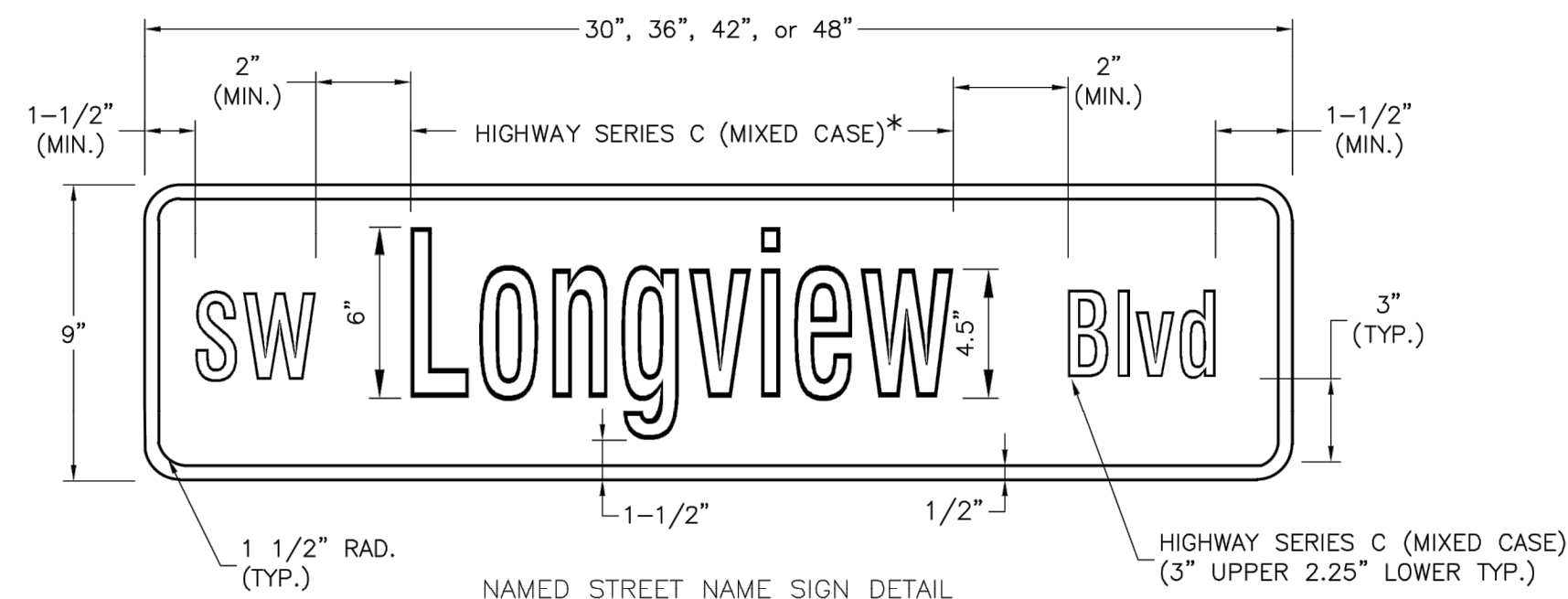
STREET NAME SIGN BLANK DETAILS
FOR MOUNTING ON SQUARE STEEL POSTS



ARROW DETAIL



PRIVATE STREET TAG DETAIL

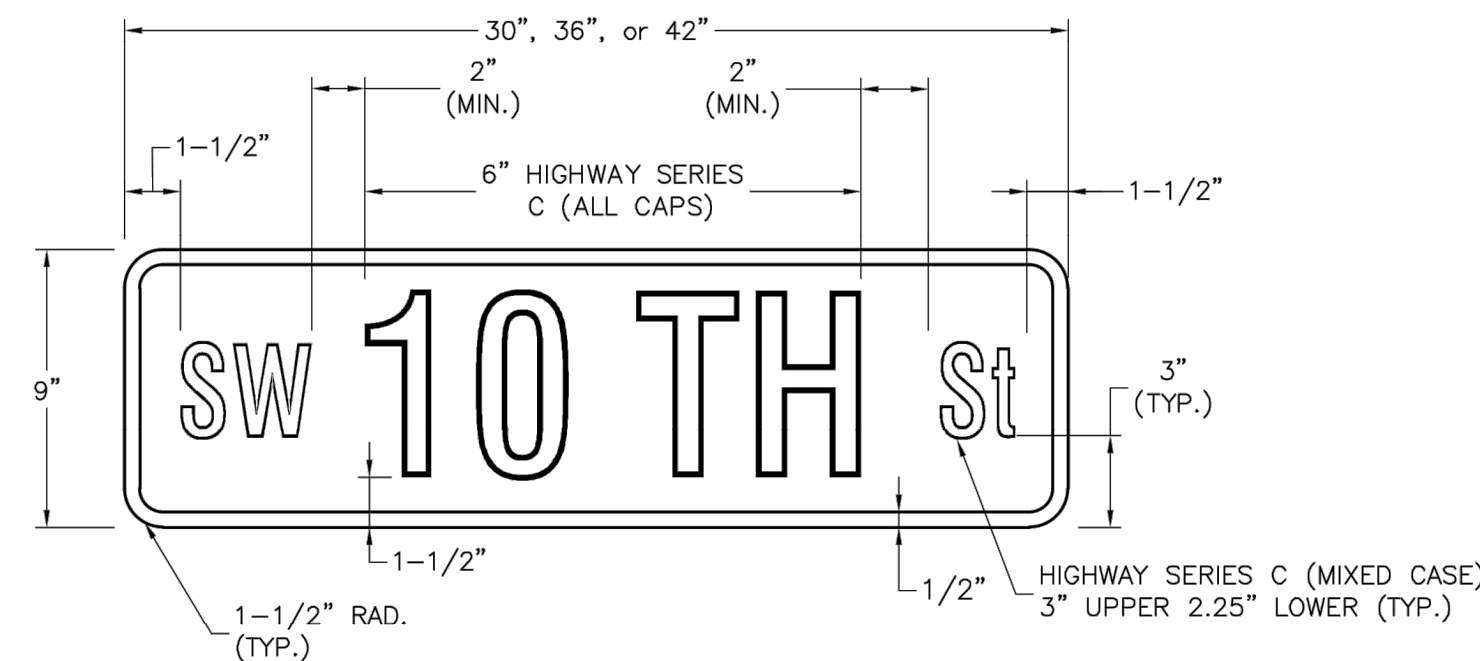


NAMED STREET NAME SIGN DETAIL

* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36\"/>

STREET NAME SIGN FACE DETAILS

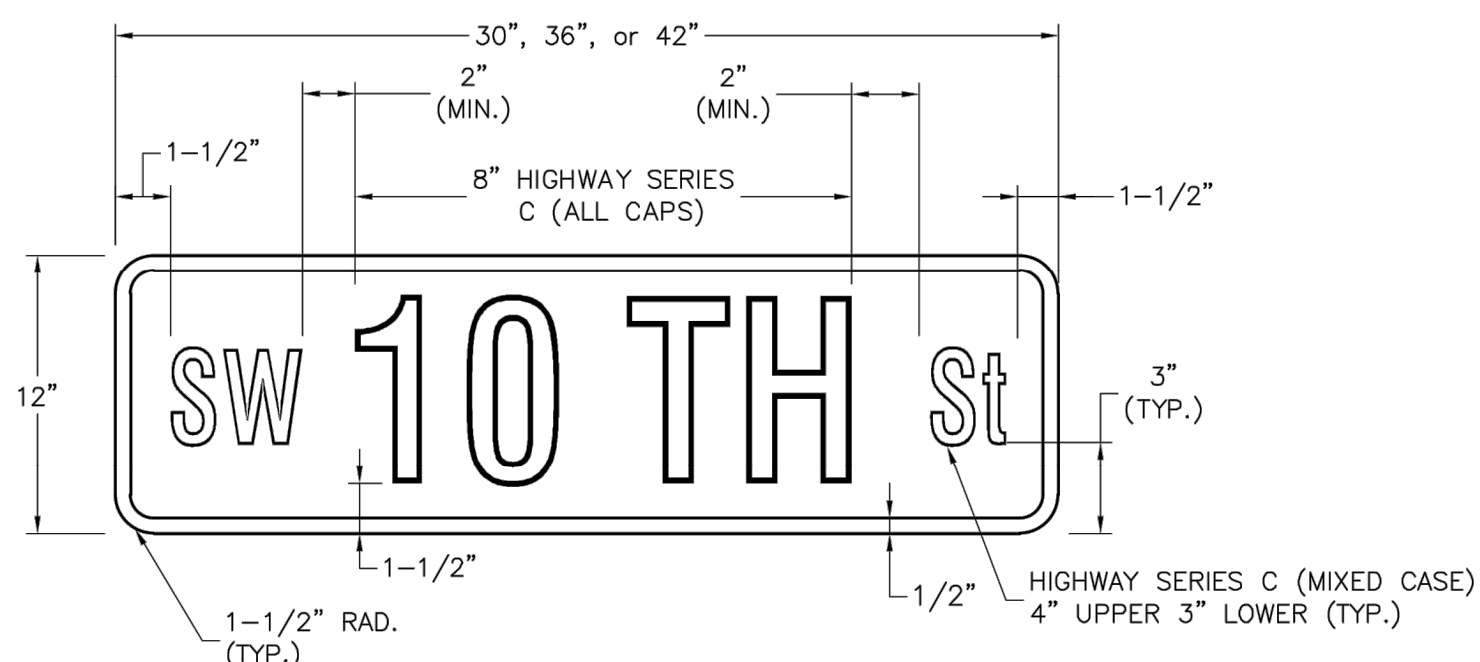
POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH

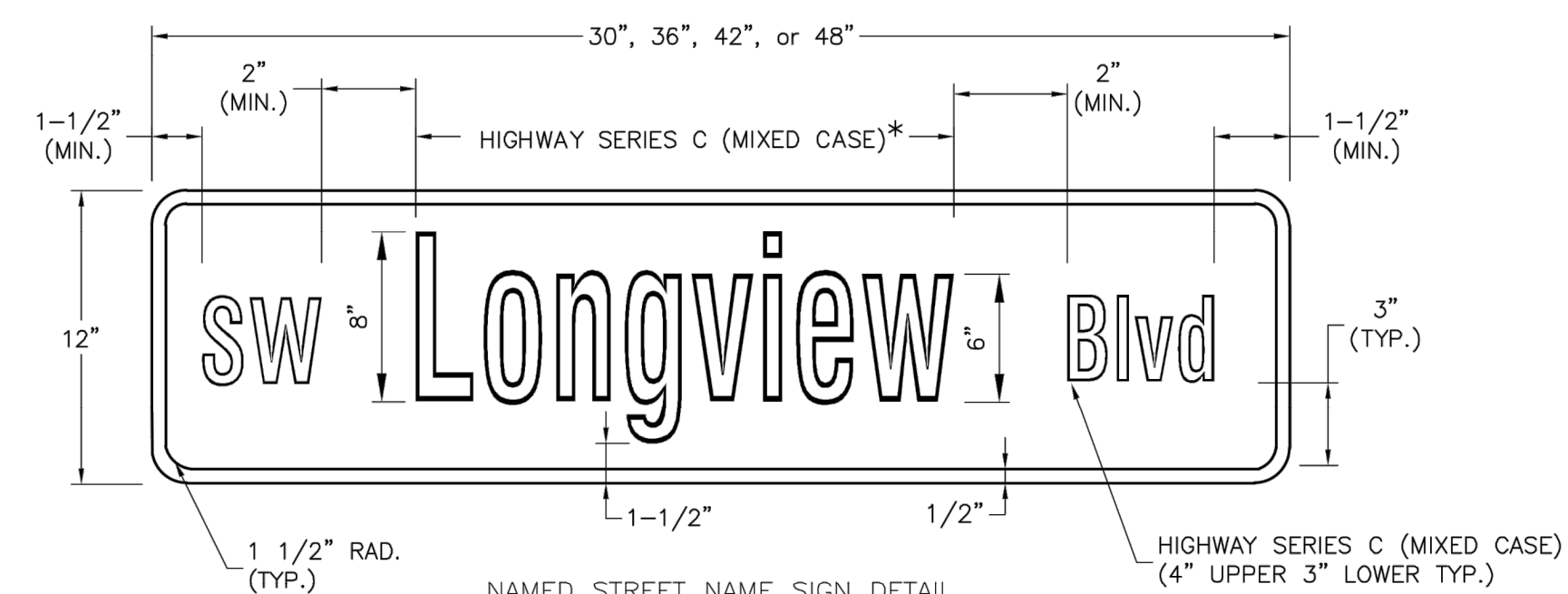


NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH

- NOTES:
- FOR ALL STREET NAME SIGNS, THE LEGEND SHALL BE WHITE AND THE BACKGROUND SHALL BE GREEN.
 - ARROWS SHALL BE ADDED TO STREET NAME SIGNS WHERE THE NAME OF A STREET CHANGES AT AN INTERSECTION. STREET NAME SIGNS WITH ARROWS ARE TO BE INSTALLED ON EACH SIDE OF THE INTERSECTION TO INDICATE THE CHANGE IN NAMES. ARROWS SHALL BE WHITE.
 - THE "PRIVATE STREET" TAG SHOULD BE ADDED TO THE END OF STREET NAME SIGNS TO INDICATE WHERE A STREET THAT IS OUTSIDE THE RIGHT-OF-WAY INTERSECTS A PUBLIC STREET. THE BACKGROUND FOR THE "PRIVATE STREET" TAG SHALL BE YELLOW.
 - MULTI-LANE IS DEFINED AS HAVING 2 LANES OR MORE IN EACH DIRECTION, EXCLUDING TURN LANES.
 - OVERHEAD SIGN DETAILS MAY BE FOUND ON THE SIGNAL HEAD MOUNTING DETAIL.

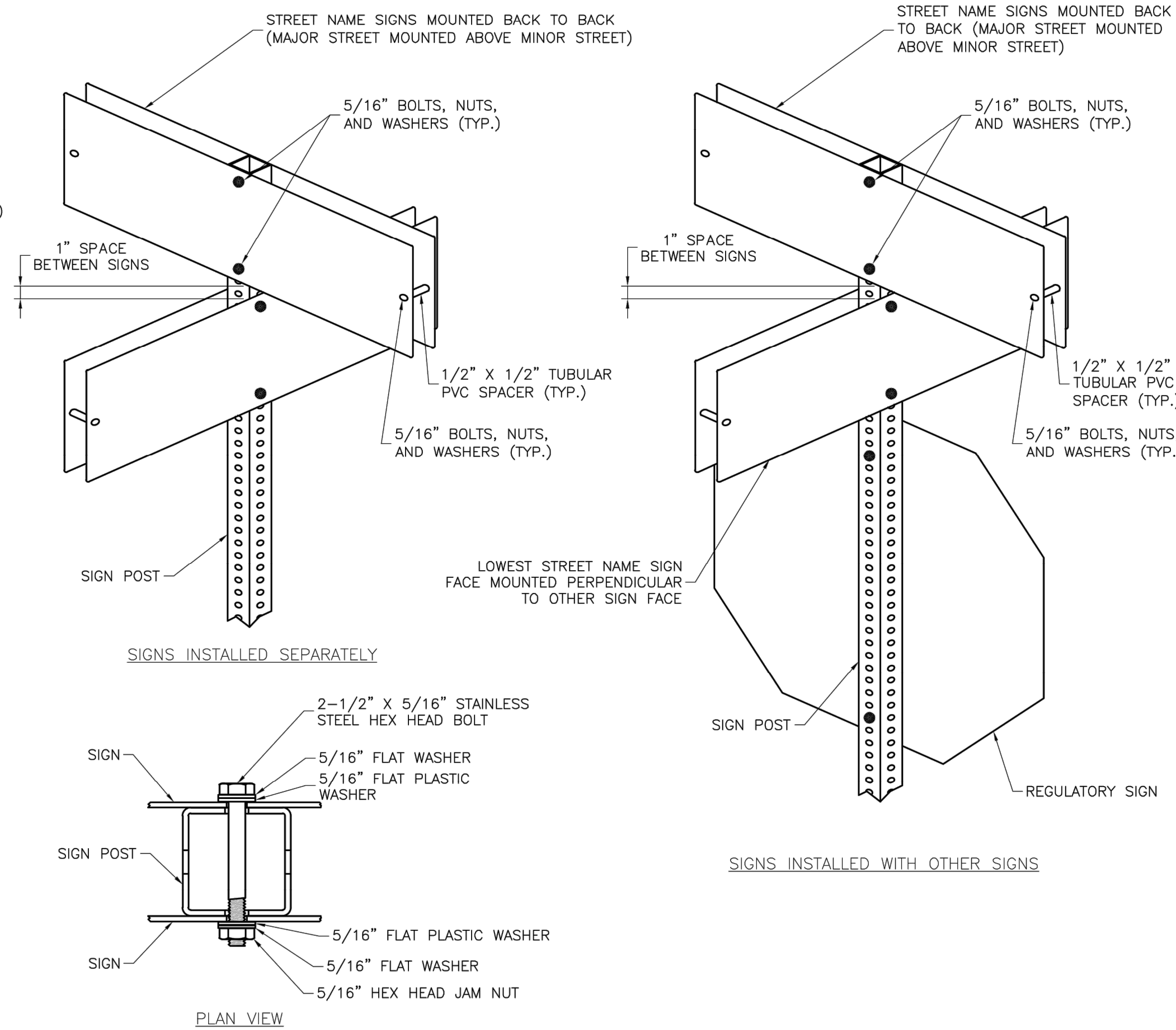


NAMED STREET NAME SIGN DETAIL

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STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH



PLAN VIEW

SQUARE STEEL POST MOUNTING DETAILS

STREET NAME SIGN INVENTORY

66"	36"
SE Bailey Farms Pkwy D3-1 (SP-1)	SE Cronin St D3-1 (SP-5)
48"	30"
SE Arboretum Dr D3-1 (SP-3)	SE Silo St D3-1 (SP-6)
48"	
SE Windbreak Dr D3-1 (SP-3)	

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LEE'S SUMMIT MISSOURI

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LEE'S SUMMIT, JACKSON COUNTY, MO
STREET NAME SIGN DETAILS

Project: LEE'S SUMMIT, MO
Sheet Name: STREET NAME SIGN DETAILS
Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-3

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PREPARED BY:
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11/30/2023
NUMBER
JE-2014010495
PROFESSIONAL ENGINEER

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STREET NAME SIGN DETAILS

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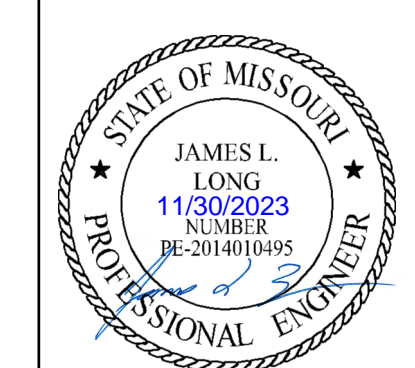
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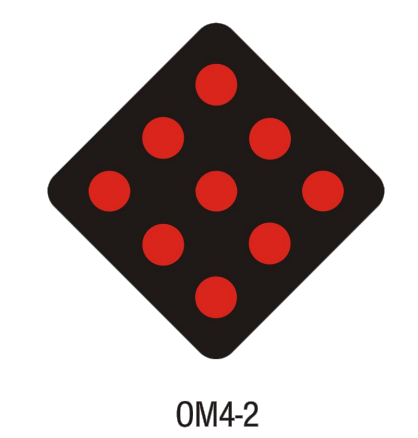
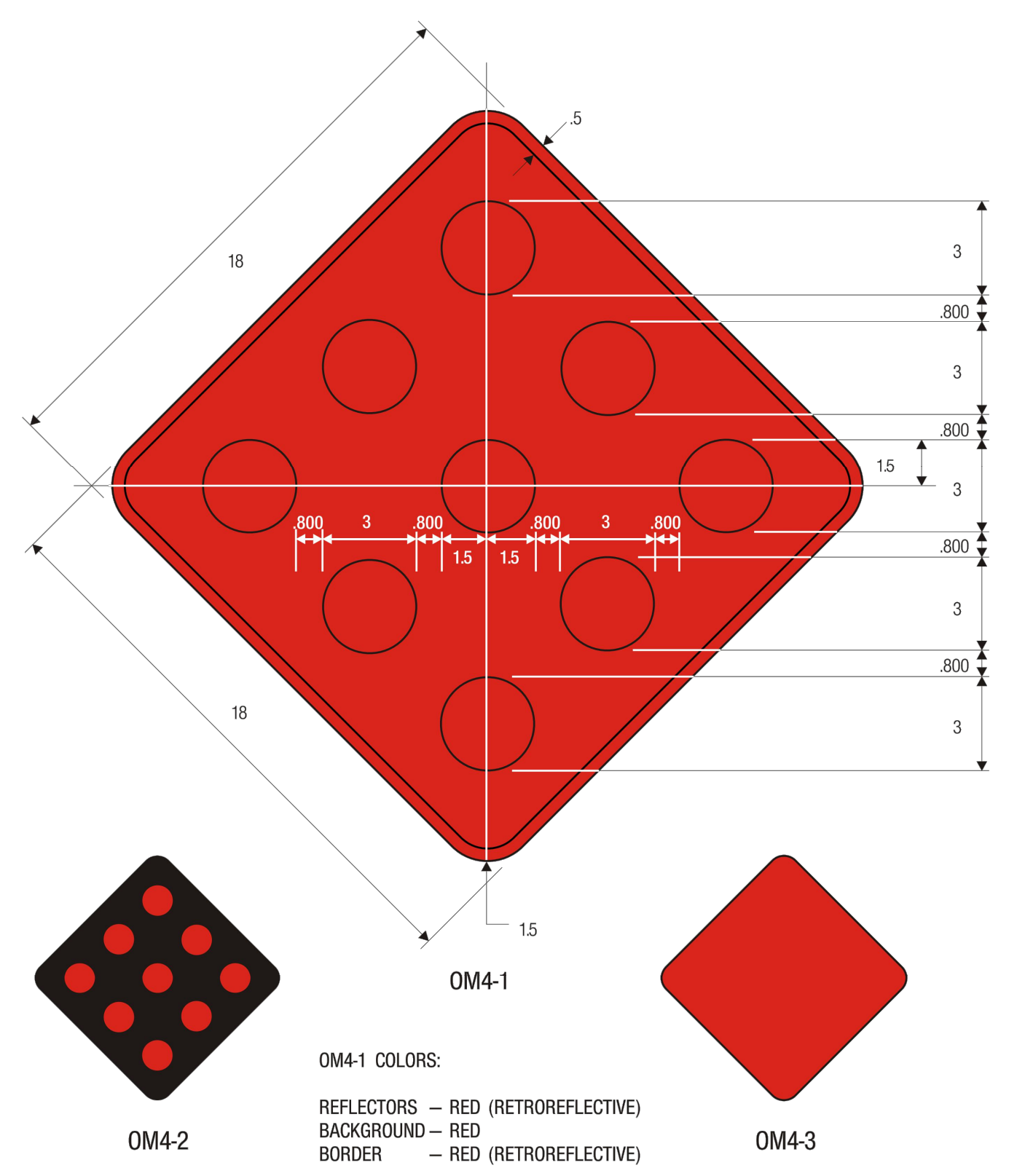
PREPARED BY:



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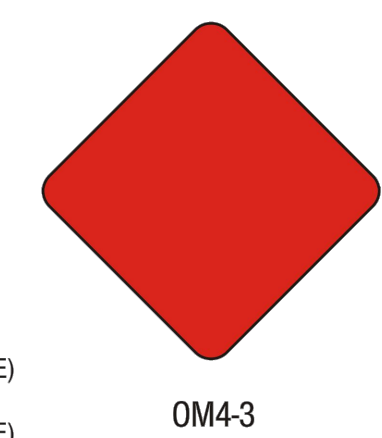
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SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI



OM4-2 COLORS:
REFLECTORS — RED (RETROREFLECTIVE)
BACKGROUND — BLACK

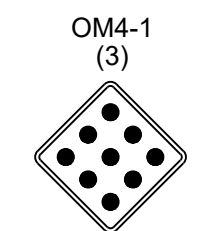
OM4-1 COLORS:
REFLECTORS — RED (RETROREFLECTIVE)
BACKGROUND — RED
BORDER — RED (RETROREFLECTIVE)



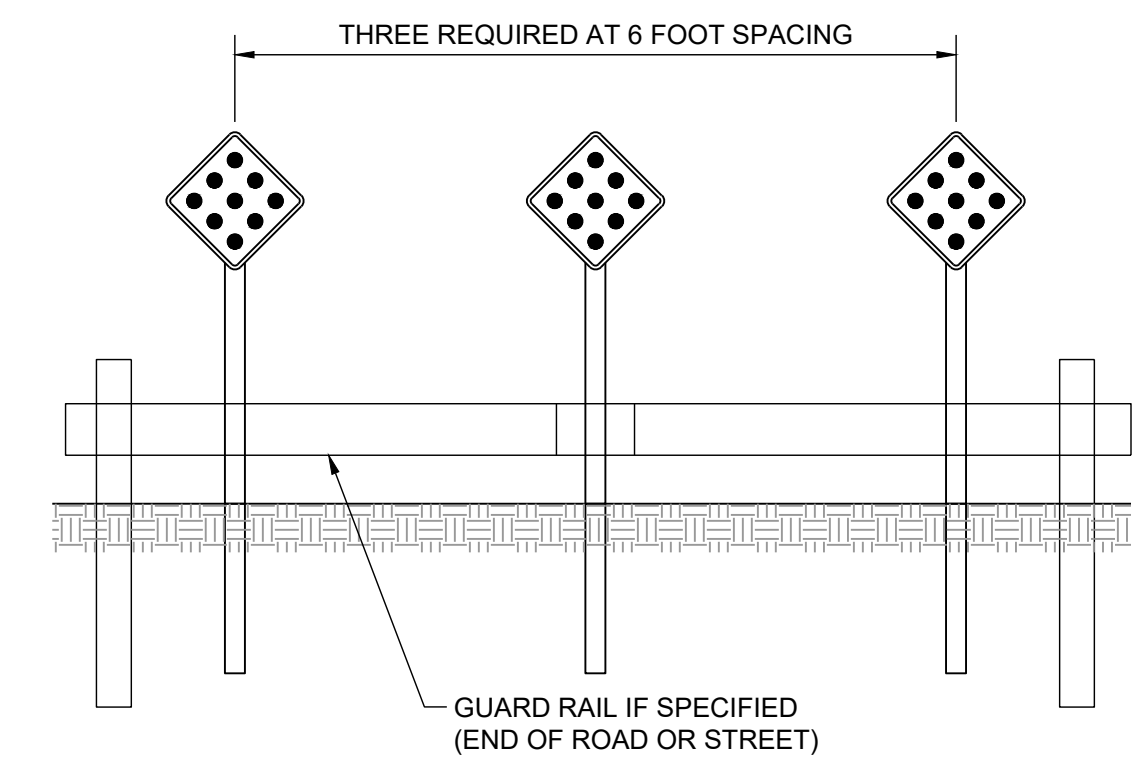
OM4-3 COLORS:
SIGN PANEL — RED (RETROREFLECTIVE)



R1-1
STOP SIGN



NOTE:
THICKNESS OF FLAT SHEET FOR END OF ROAD
MARKERS SHALL BE 0.0063". RED REFLECTORS
ON RED BACKGROUND.



REVISION DATE	DESCRIPTION
02/03/2022	PER CITY COMMENTS DATED 01/10/2022
04/20/2022	PER CITY COMMENTS DATED 02/28/2022
05/19/2022	PER CITY COMMENTS DATED 05/13/2022
10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note

OM-4 SIGN
DETAILS

SHEET
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