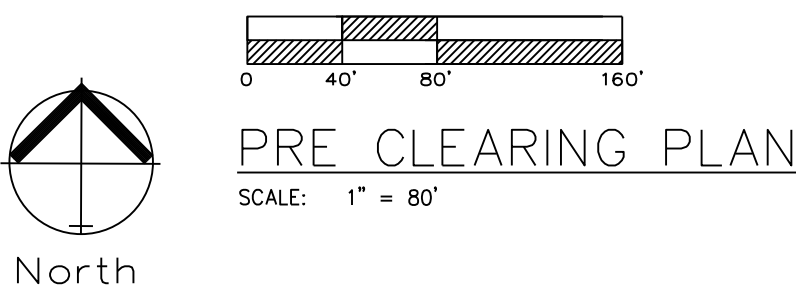
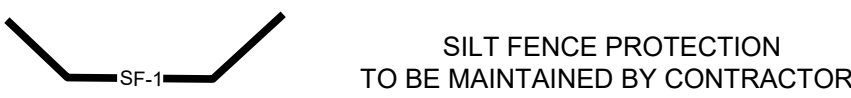


C.001



NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.



PHASE 1 SILT FENCE	— SF-1 —	— SF-1 —
PHASE 2 SILT FENCE	— SF-2 —	— SF-2 —

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.



Professional Registration
Missouri
Engineering 200502188-D
Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: Monticello
Issue Date: April 10, 2020
ESC PHASE 1 - Pre Clearing Plan
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 255226

REVISIONS
2/4/2021 As-Built



INITIAL AREA STABILIZATION PLAN W/ SEDIMENT BASIN
SCALE: 1" = 80'

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE

PHASE 2 SILT FENCE

DURING ALL PHASES OF CONSTRUCTION,
INACTIVE AREA STABILIZATION METHODS AS
DESCRIBED IN APWA SECTION 5111.3 SHALL BE
USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

MAINTENANCE:
TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:

SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.
STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.
TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:
INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEATGRASS AT A RATE OF 15 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDED SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:

STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING, AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.

TEMPORARY SEDIMENT TRAP CALCULATIONS:
(WEST TRAP - AREA E1)

1. TRIBUTARY AREA = 6.62 ac
2. REQUIRED WET VOLUME OF TRAP = 67 cy/ac
= 6.62 X 67 = 444 cy = 11,998 cf
3. REQUIRED DRY VOLUME OF TRAP = 67 cy/ac
= 6.62 X 67 = 444 cy = 11,998 cf
4. WET VOLUME OF PROPOSED TRAP = 17,326 cf
4. DRY VOLUME OF PROPOSED TRAP = 19,075 cf

TEMPORARY SEDIMENT TRAP CALCULATIONS:
(EAST TRAP - AREA E2)

1. TRIBUTARY AREA = 6.48 ac
2. REQUIRED WET VOLUME OF TRAP = 67 cy/ac
= 6.62 X 67 = 435 cy = 11,745 cf
3. REQUIRED DRY VOLUME OF TRAP = 67 cy/ac
= 6.62 X 67 = 444 cy = 11,745 cf
4. WET VOLUME OF PROPOSED TRAP = 19,345 cf
4. DRY VOLUME OF PROPOSED TRAP = 21,657 cf

EROSION CONTROL DESCRIPTION:
1) SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN.
2) INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS.
3) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.
4) INSTALL SEDIMENT BASINS AND/OR TRAPS AS EARLY AS POSSIBLE DURING PHASE 2 INITIAL AREA STABILIZATION MASS GRADING AS SHOWN ON PLAN. SEDIMENT TRAPS TO BE INCORPORATED INTO PERMANENT DETENTION BASIN.

EROSION CONTROL PROCEDURE:
1) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.
2) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.
3) IF SLOPE TOWARDS THE PUBLIC ROAD EXCEED 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H : 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
4) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS.
5) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.
7) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

- 1) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.
- 2) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.
- 3) IF SLOPE TOWARDS THE PUBLIC ROAD EXCEED 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H : 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
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- 7) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

TEMPORARY CONSTRUCTION ENTRANCE NOTES (CONT'D):

- 1) TROUBLESHOOTING
1.1) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
- INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS
- INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES
- SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC
- PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY
- 2) INSPECTION AND MAINTENANCE
1) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
2) REPAIR PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL
3) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
4) IMMEDIATELY REMOVE MUD OR SEDIMENT CHECKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
5) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

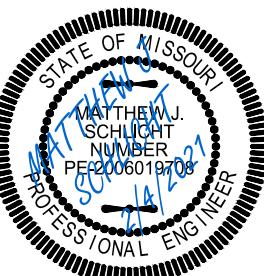


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005119-D
Kansas
Engineering E-16895
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project:
Monticello
Issue Date:
April 10, 2020

ESC PHASE 2 - Initial Area Stabilization Plan
w/ Sediment Basin
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 255226

REVISIONS

2/4/2021 As-Built

"AS-BUILT"

900.10
900.00 Indicates data replaced with "As-Built"
information. All other data is as designed
and has not been field verified.



North

SCALE: 1" = 80'

INACTIVE AREA STABILIZATION PLAN W/ PUBLIC IMP.

LEGEND

PHASE 1 SILT FENCE ——— SF-1 ——— SF-1

PHASE 2 SILT FENCE ——— SF-2 ——— SF-2

INLET PROTECTION
GUTTER BUDDY OR EQUAL

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

- MAINTENANCE:**
TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:
SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.
STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.
TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.
- INSPECTION PROCEDURES:**
INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.
IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDING SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.
ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.
THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:
STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.
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CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.
- EROSION CONTROL DESCRIPTION:**
1) SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS
2) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN
3) INSTALL SEDIMENT BASINS AND/OR TRAPS AS EARLY AS POSSIBLE DURING PHASE 2 INITIAL AREA STABILIZATION MASS GRADING AS SHOWN ON PLAN. SEDIMENT TRAPS TO BE INCORPORATED INTO PERMANENT DETENTION BASIN.
- EROSION CONTROL PROCEDURE:**
1) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.
2) SEDIMENT BASINS AND/OR TRAPS SHALL BE CLEANED OUT WHEN THE SEDIMENT CAPACITY HAS BEEN REDUCED BY 20% OF ITS ORIGINAL DESIGN VOLUME. REMOVE SEDIMENT BASINS AND/OR TRAPS DURING PHASE 3 INACTIVE AREA STABILIZATION AS THE FINAL STEP IN MASS GRADING ACTIVITIES. IF A SKIMMER IS EMPLOYED IT SHALL REMAIN IN SERVICE UNTIL ALL AREAS CONTRIBUTING RUNOFF HAVE BEEN STABILIZED WITH THE ESTABLISHMENT OF VEGETATION 90% MINIMUM.
- TEMPORARY CONSTRUCTION ENTRANCE NOTES:**
A) INSTALLATION
1) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED
2) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.
3) IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H - 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
4) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS
5) PLACE STONE TO DIMENSIONS AND GRADATIONS AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE
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B) TROUBLESHOOTING
1) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
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C) INSPECTION AND MAINTENANCE
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3) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
4) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
5) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEES SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration
Missouri
Engineering 2005002198-D
Surveying 2005005193-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: Monticello
Issue Date: April 10, 2020

ESC PHASE 3 - Inactive Area Stabilization Plan
w/ Public Improvements
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 255226

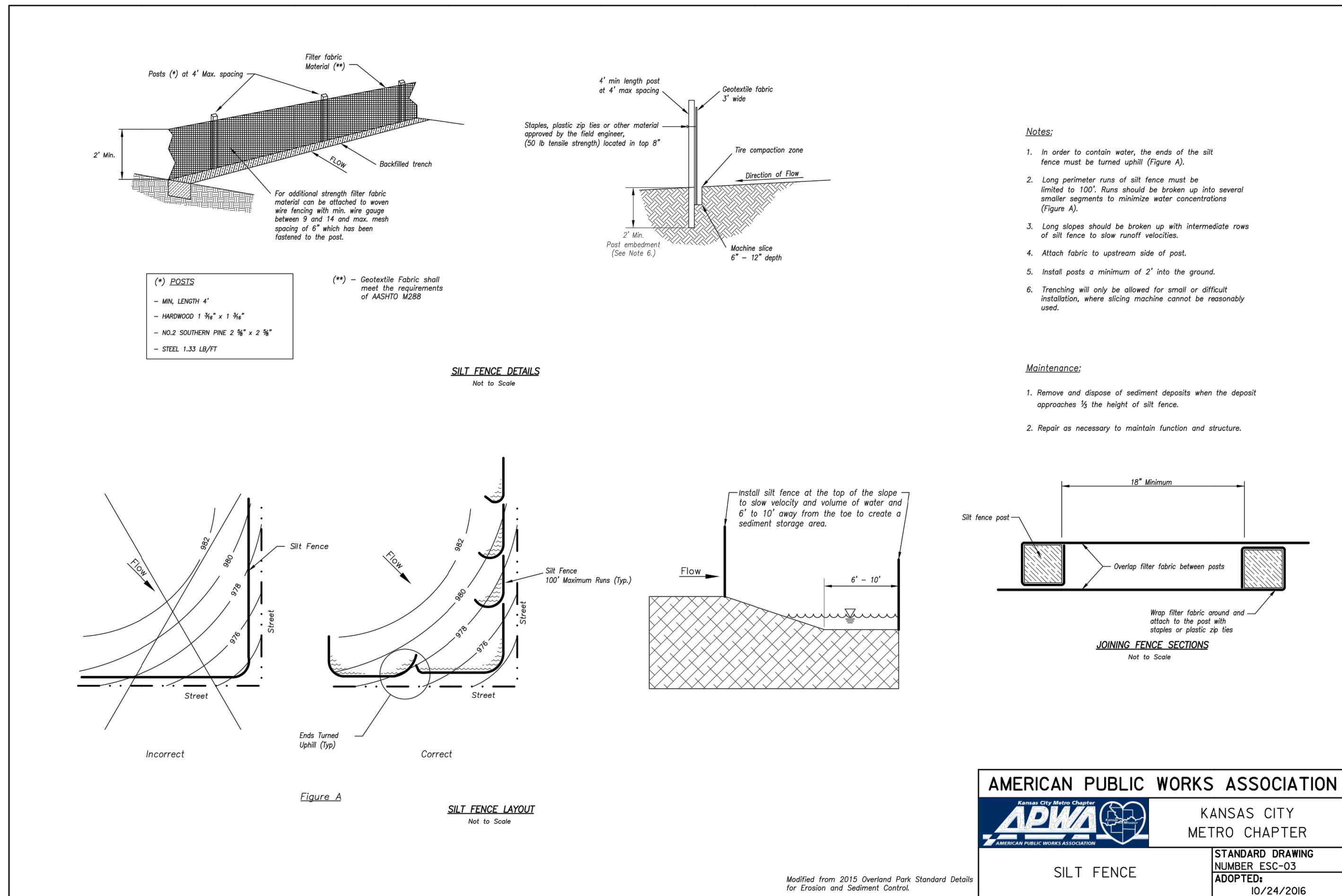
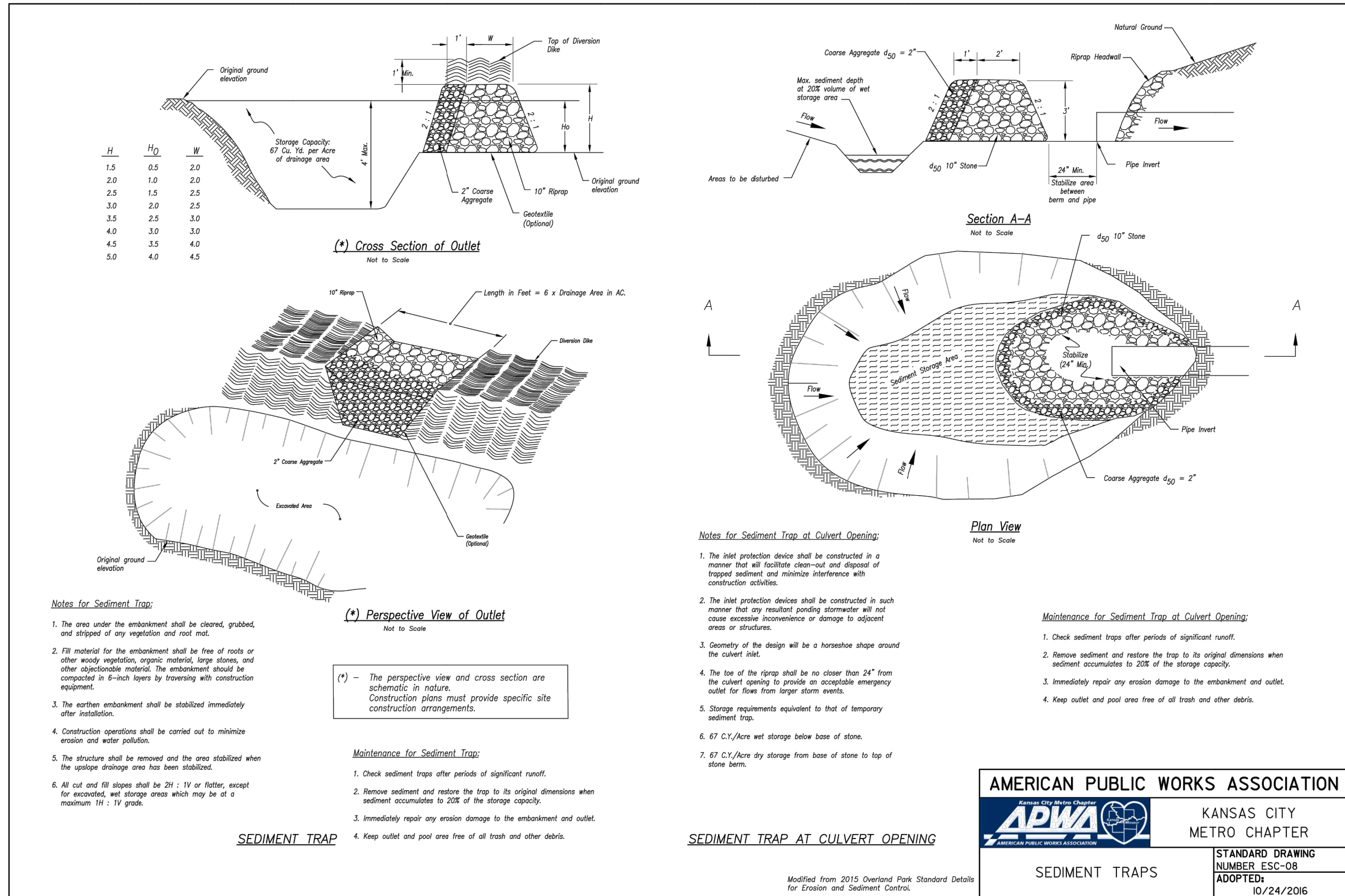
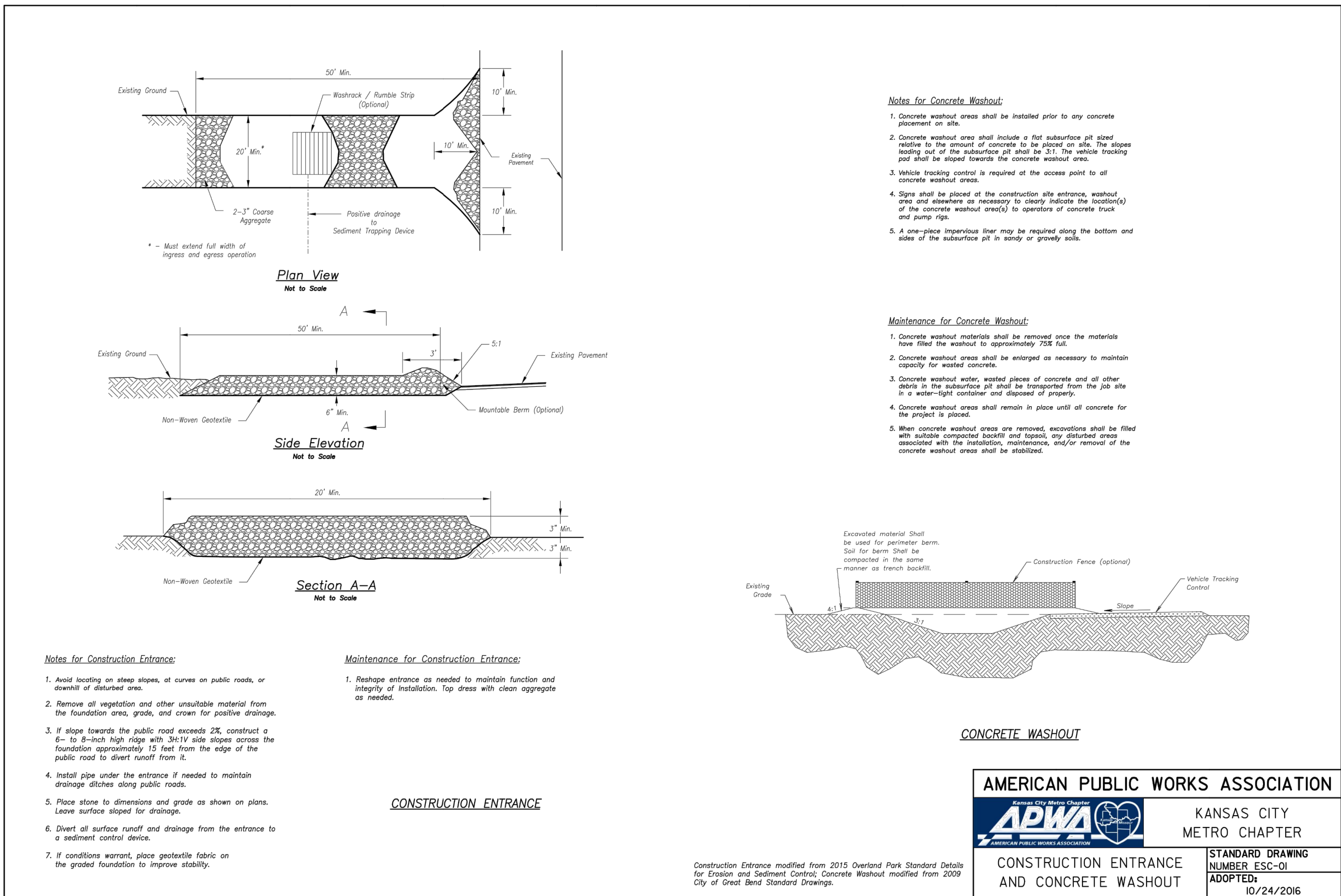
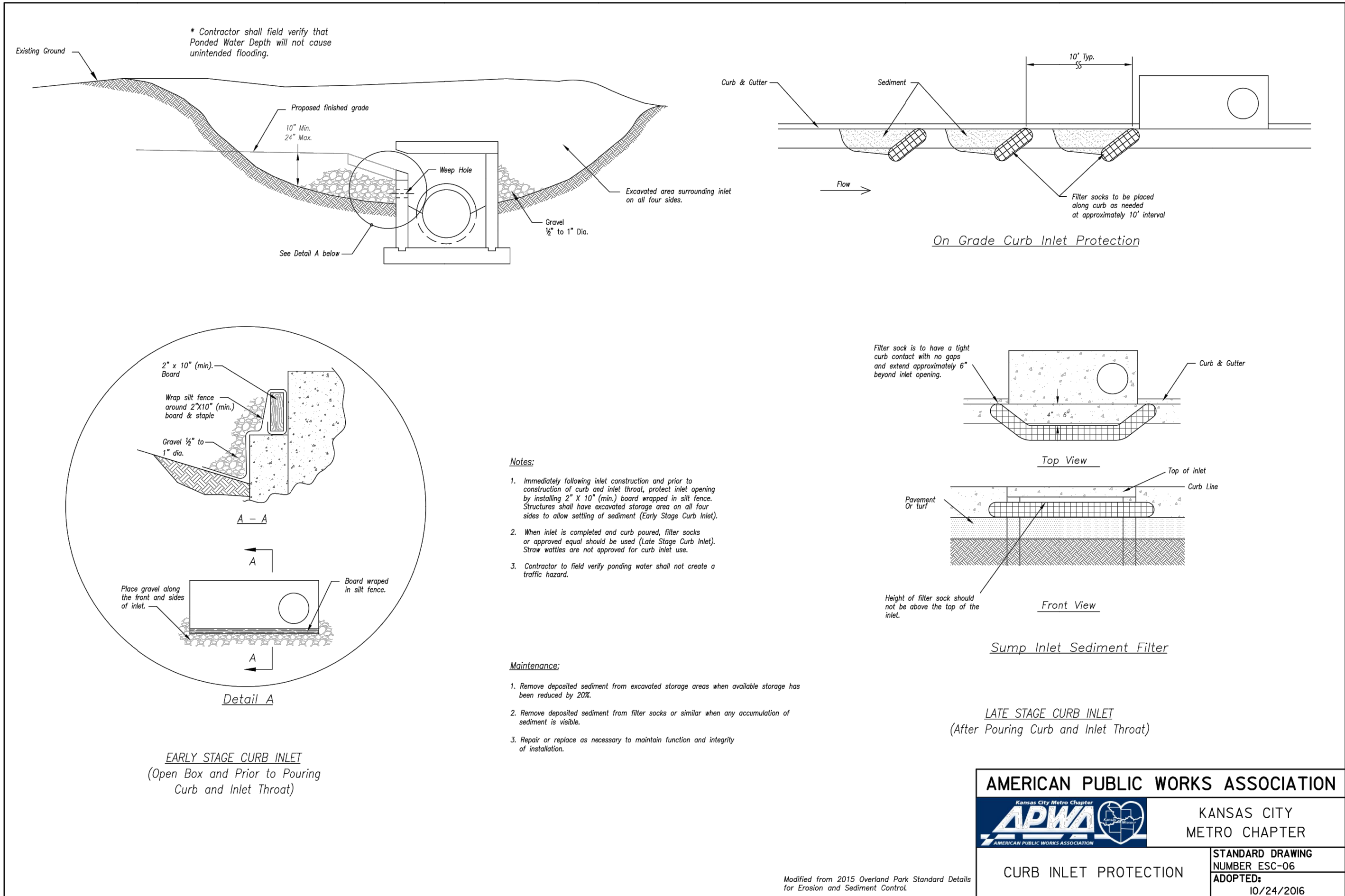
REVISIONS

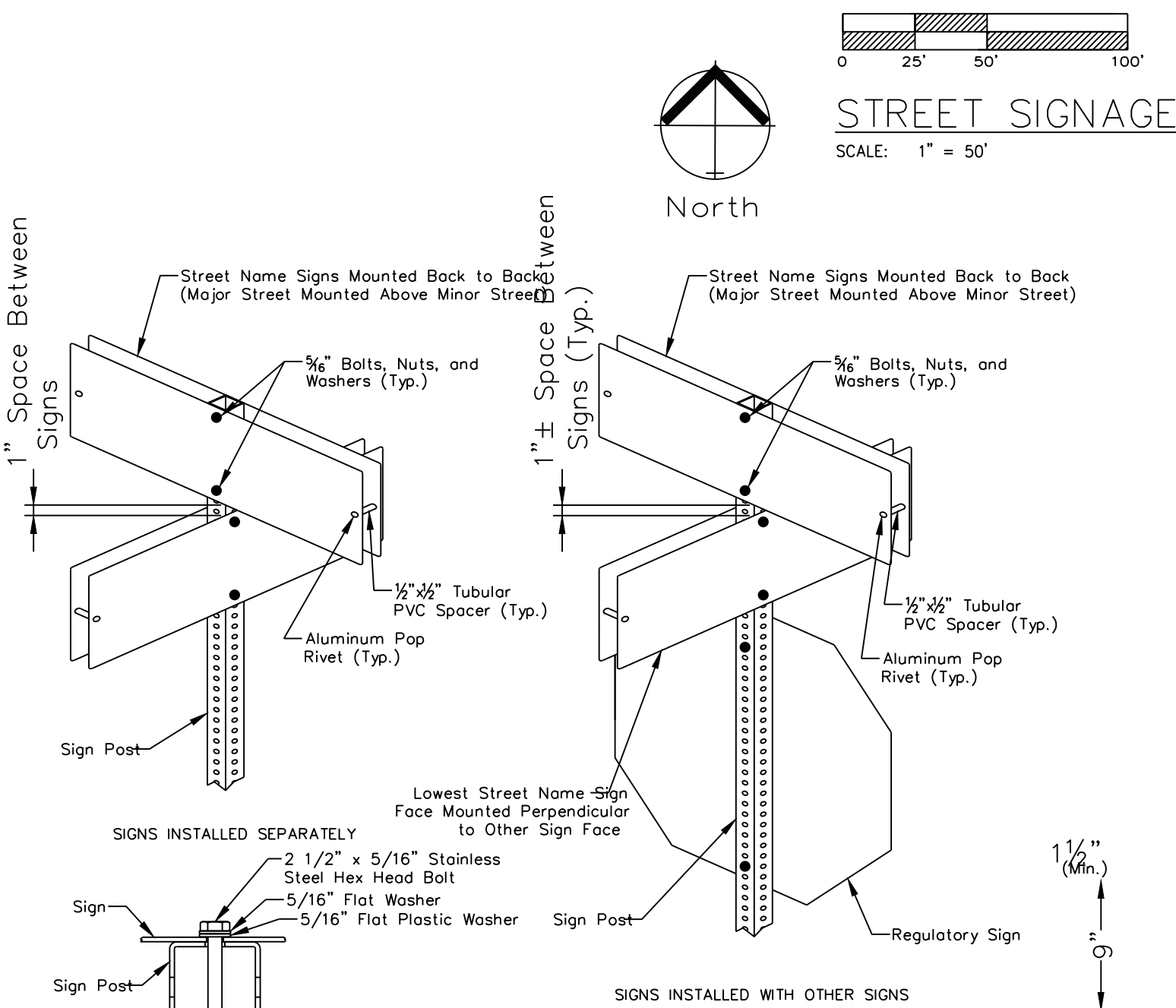
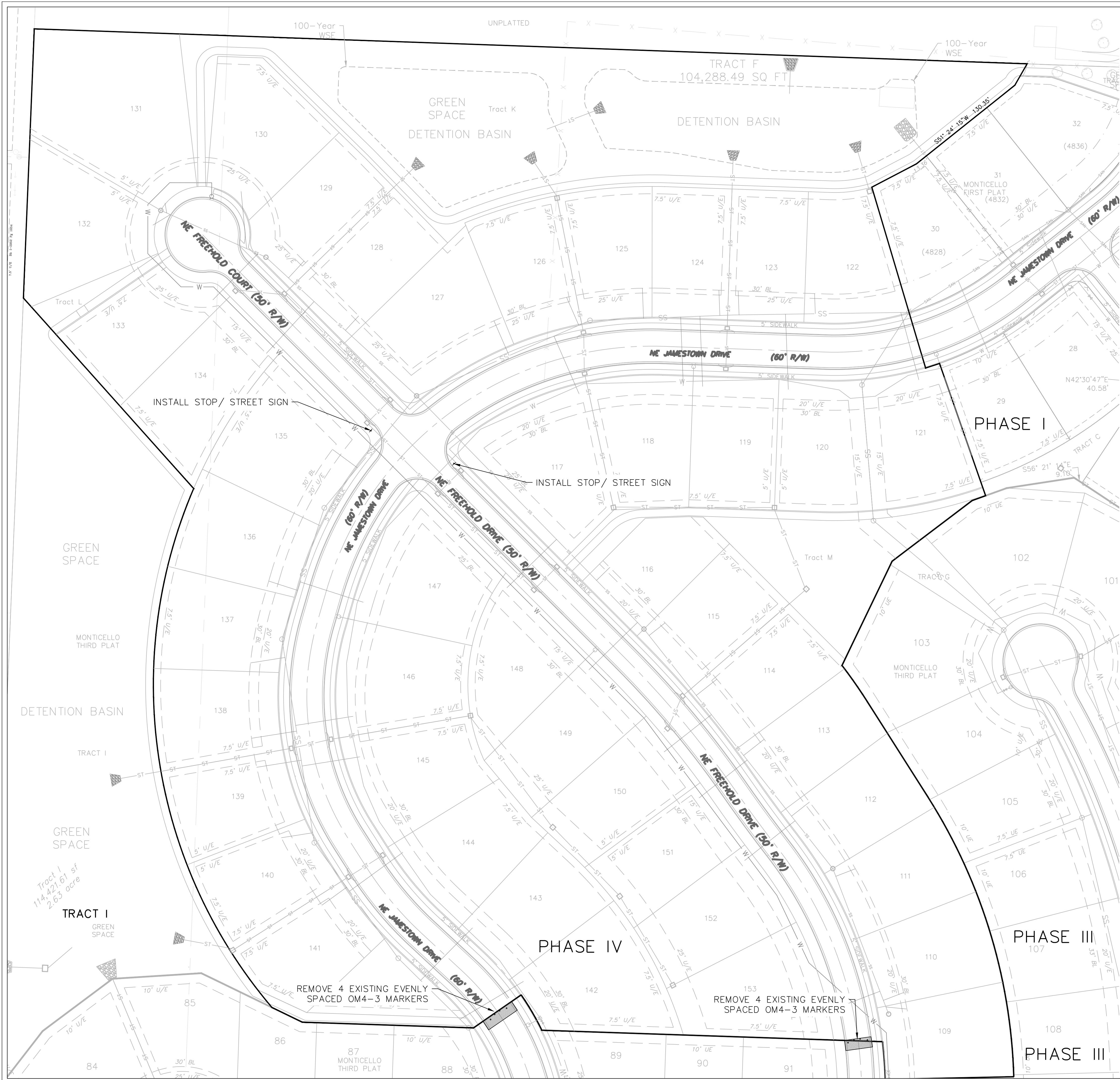
2/4/2021	As-Built

C.052

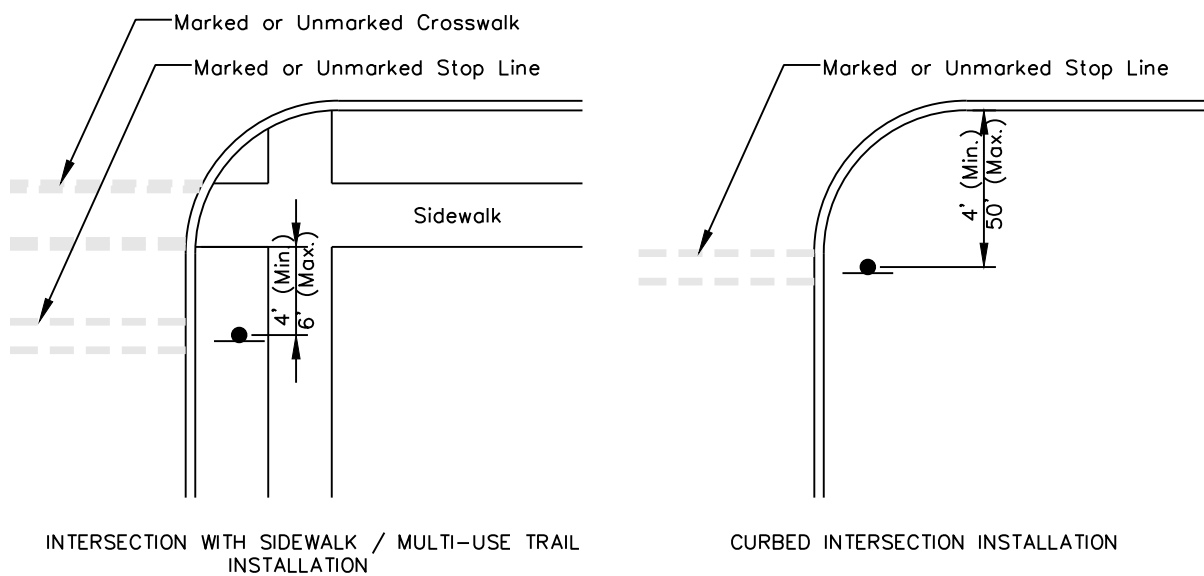
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900.10
~~900.00~~ Indicates data replaced with "As-Built" information. All other data is as designed and has not been field verified.

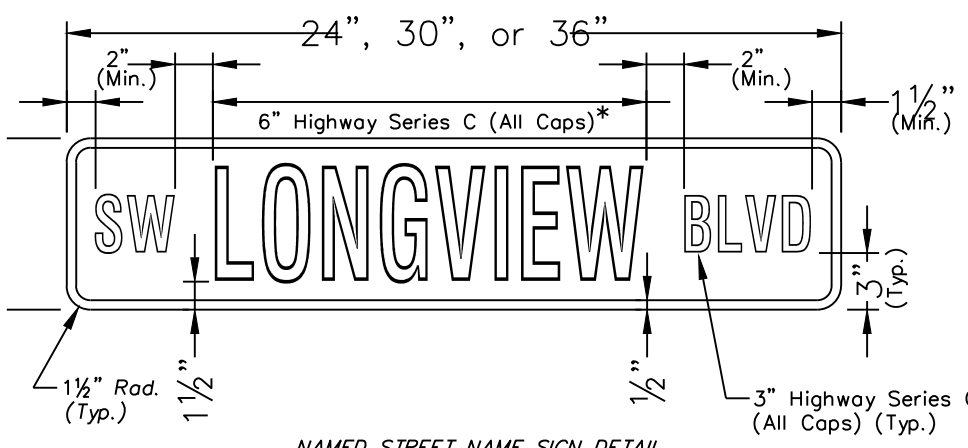




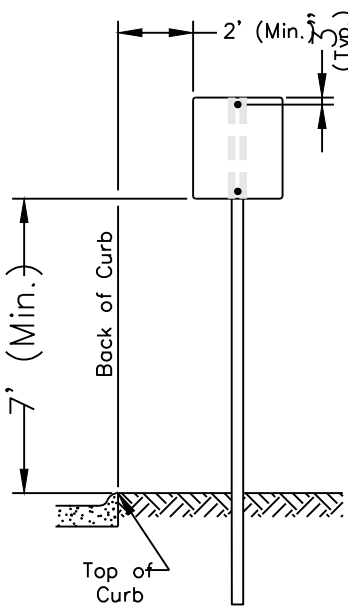
SQUARE STEEL POST MOUNTING DETAILS



CONTROL SIGN LOCATION



* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



SIGN MOUNTING DETAILS

* 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.

"AS-BUILT"

900.10
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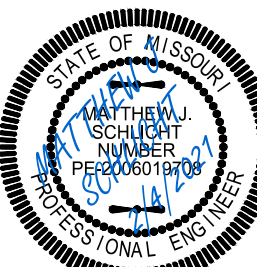
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Lee's Summit, Jackson County, Missouri

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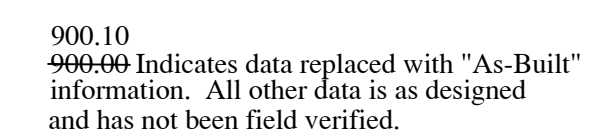
Street Signage

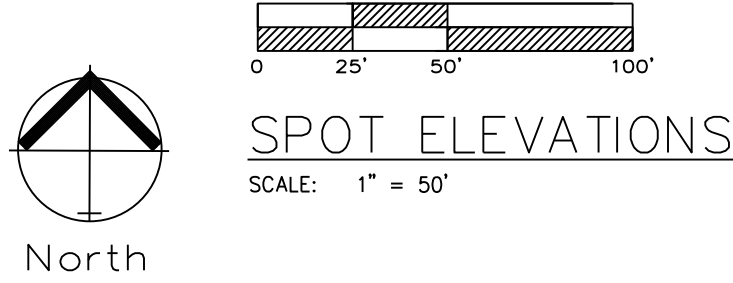
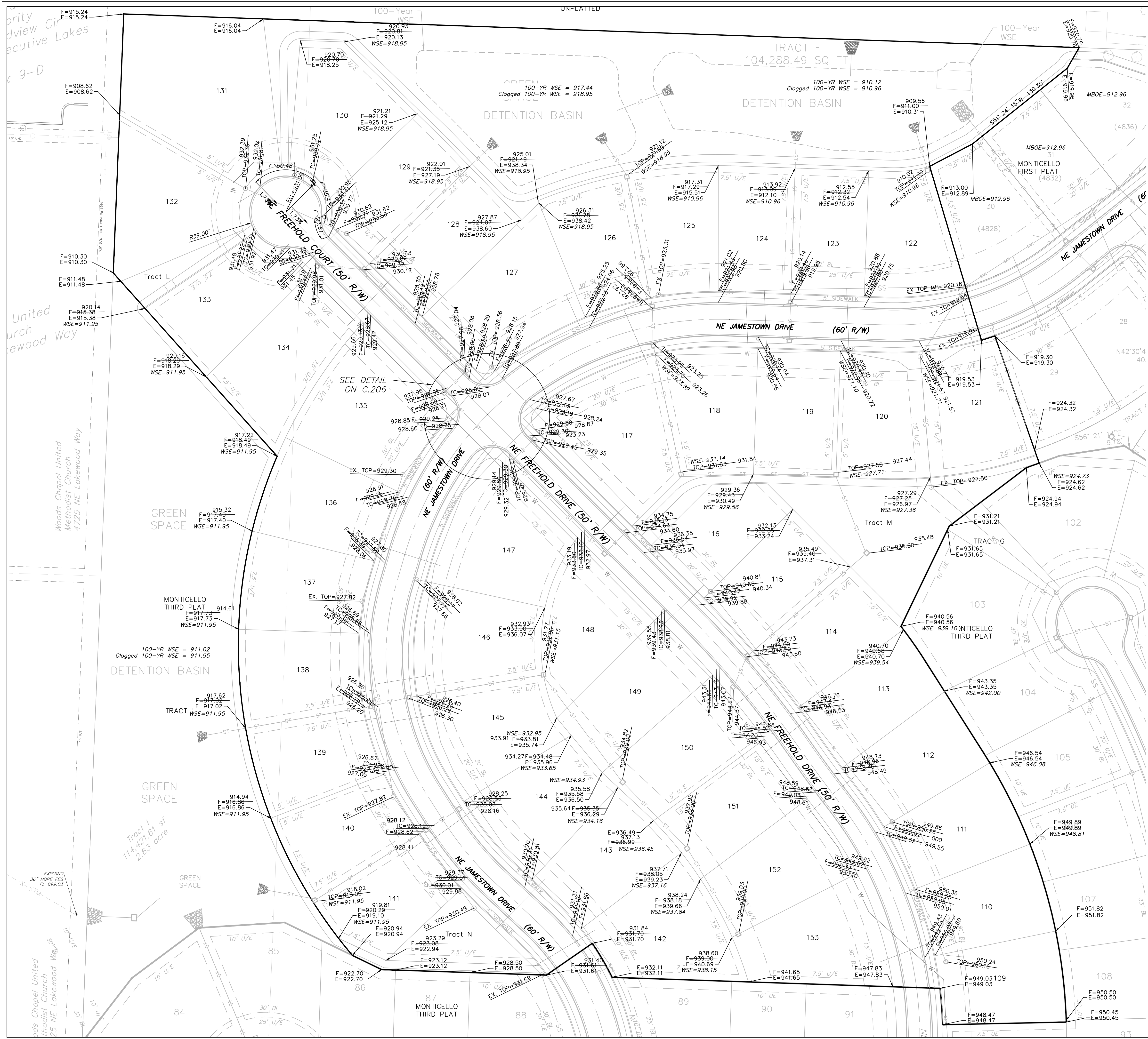
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

REVISIONS
2/4/2021 As-Built





Lot Number	Basement Type	MBOE Right	MBOE Left
109	Full	952.45	953.82
110*	Full	953.82	950.81
111*	Full	950.81	948.08
112*	Full	948.08	944.00
113*	Daylight	944.00	941.54
114*	Daylight	941.54	937.4
115	Walkout	937.40	934.35
116*	Walkout	934.35	931.56
117*	Full	937.13	933.14
118*	Full	933.14	931.56
119*	Full	931.56	929.71
120*	Full	929.71	929.36
121*	Full	929.36	926.73
122*	Walkout	912.96	914.32
123*	Walkout	914.32	915.99
124*	Walkout	915.99	919.29
125*	Daylight	919.29	920.95
126*	Full	920.95	923.49
127*	Daylight	923.49	926.07
128*	Walkout	926.07	923.35
129*	Walkout	923.35	923.29
130*	Walkout	923.29	922.81
131	Walkout	918.04	910.62
132	Walkout	910.62	912.30
133*	Walkout	917.38	920.29
134*	Walkout	920.29	920.49
135*	Walkout	920.49	930.25
136*	Walkout	920.49	919.40
137*	Walkout	919.40	919.73
138*	Walkout	919.73	919.02
139*	Walkout	919.02	918.86
140*	Walkout	918.86	920.00
141*	Walkout	920.00	924.70
142	Full	943.65	939.16
143	Full	939.16	936.16
144	Full	936.16	935.65
145	Full	935.65	933.15
146	Full	933.15	935.00
147	Full	935.00	935.60
148	Full	935.60	934.95
149	Walkout	934.95	936.93
150	Walkout	936.93	938.45
151	Walkout	938.45	939.84
152	Walkout	939.84	940.15
153	Walkout	940.15	943.65

*Lots with Asterisk shall meet "As-Graded Plat Plan" Requirements.

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Nebraska
Engineering CA2821

Project:
Monticello
Lee's Summit, Jackson County, Missouri

Drawn By:
Matthew J. Schlicht
April 10, 2020

Master Drainage Plan 2 of 3:
Spot Elevations

Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS
2/4/2021 As-Built

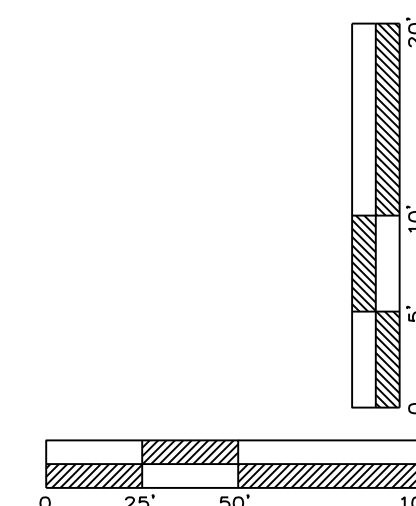
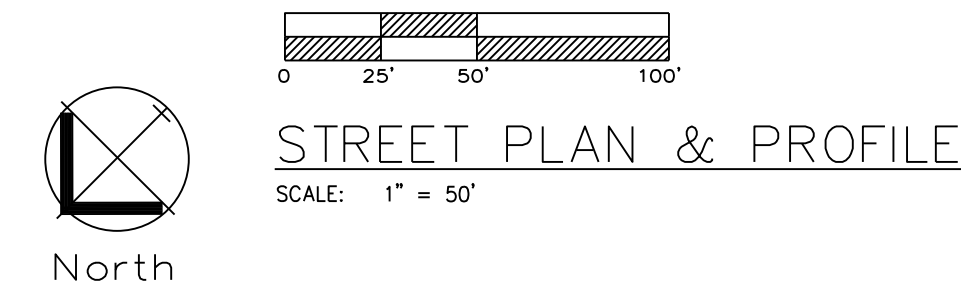
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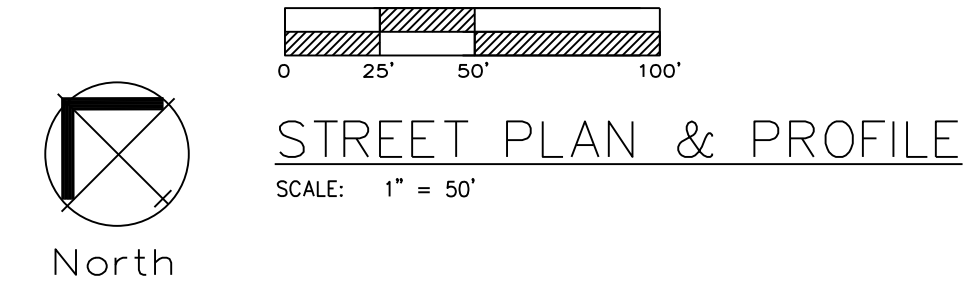
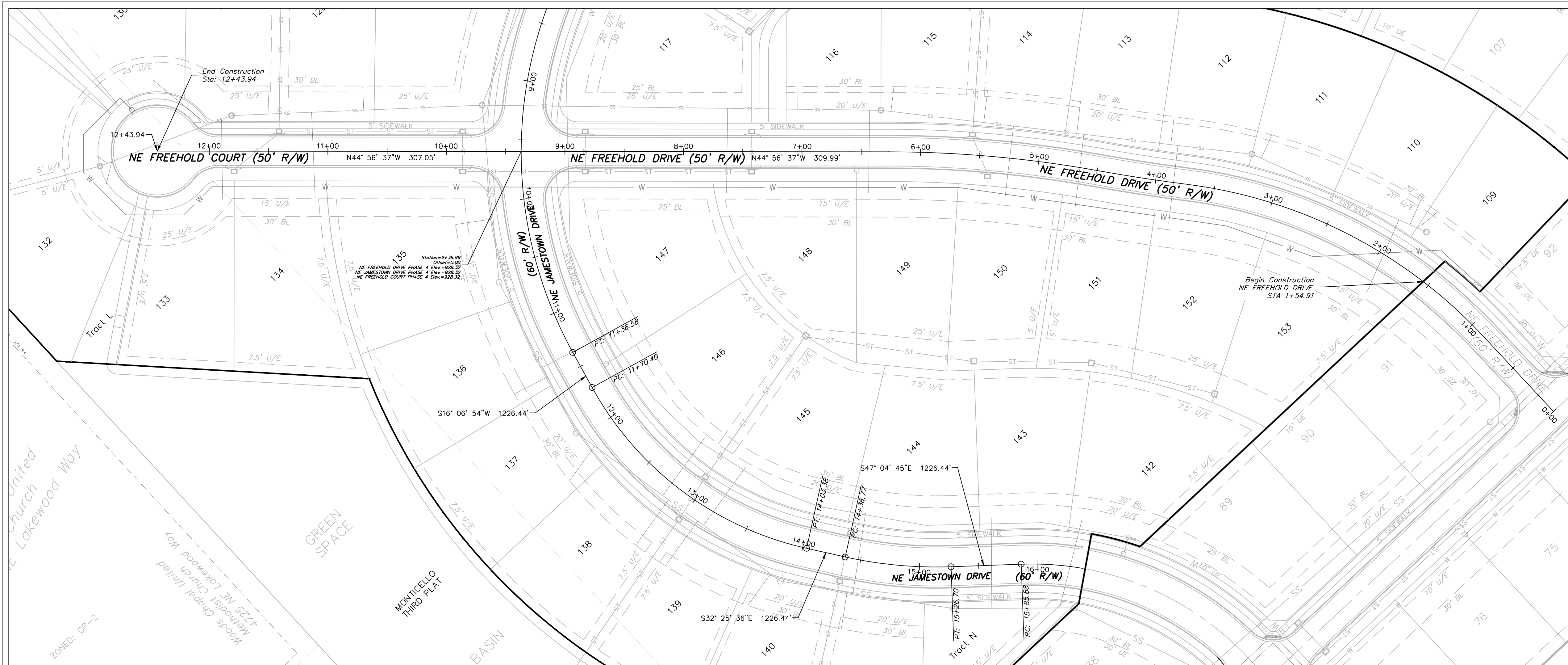
C.201



APWA STORM DRAINAGE "TC" COMPUTATIONS FOR : MONTICELLO 4TH PLAT																							
AREA ID		TOTAL SQ.FT.		TOTAL ACRES		WTRSHD LENGTH		UP ELEV		DN ELEV		SURFACE CODE		OVERLAND FLOW - 100' MAX		SURFACE CODE		Paved or Unpaved		SLOPE		VELOCITY	
POST																							
1	8849.79	0.20	127.54	921.87	911.08	Z	0.51	100.0	921.9	912.83	9.0	P	27.5	912.8	911.1	6.35	4.1	5.1	5.1	0.1	0.0	5.2	1
2	16873.09	0.39	177.67	921.06	920.03	Z	0.51	44.3	921.1	920.69	0.8	P	133.4	920.7	920.0	0.49	1.4	7.5	7.5	1.6	0.0	9.1	2
3	41235.44	0.95	173.91	931.64	919.00	Z	0.51	100.0	931.6	925.00	6.6	U	73.9	925.0	919.0	8.12	4.6	5.7	5.7	0.3	0.0	5.9	3
4	18965.34	0.44	196.12	943.00	926.50	Z	0.51	100.0	943.0	937.35	5.6	U	96.1	937.4	926.5	11.29	5.4	6.0	6.0	0.3	0.0	6.3	4
5	51692.13	1.19	488.05	952.38	934.50	Z	0.51	100.0	952.4	950.30	2.1	U	388.1	950.3	934.5	4.07	3.3	8.3	8.3	2.0	0.0	10.3	5
6	16815.92	0.39	345.50	951.26	943.59	Z	0.51	41.0	951.3	949.00	5.5	P	304.5	949.0	943.6	1.78	2.7	3.8	5.0	1.9	0.0	6.9	6
7	15504.06	0.36	224.96	944.19	934.13	Z	0.51	41.0	944.2	942.00	5.3	P	184.0	942.0	934.1	4.28	4.2	3.9	5.0	0.7	0.0	5.7	7
8	26480.27	0.61	179.88	934.11	922.75	Z	0.51	100.0	934.1	928.00	6.1	U	79.9	928.0	922.8	6.57	4.1	5.8	5.8	0.3	0.0	6.1	8
9	13084.09	0.30	205.34	928.25	922.52	Z	0.51	42.0	928.3	927.00	3.0	P	163.3	927.0	922.5	2.74	3.4	4.8	5.0	0.8	0.0	5.8	9
10	9797.66	0.22	136.64	926.15	920.50	Z	0.51	100.0	926.2	924.00	2.1	U	36.6	924.0	920.5	9.55	5.0	8.2	8.2	0.1	0.0	8.4	10
11	11572.43	0.27	165.99	932.00	929.87	Z	0.51	41.0	932.0	931.00	2.4	P	125.0	931.0	929.9	0.90	1.9	5.1	5.1	1.1	0.0	6.1	11
11A	8297.81	0.19	185.92	931.25	926.96	Z	0.51	41.0	931.3	930.00	3.0	P	144.9	930.0	927.0	2.10	2.9	4.7	5.0	0.8	0.0	5.8	11A
12	9518.81	0.22	169.48	932.00	930.17	Z	0.51	41.0	932.0	931.00	2.4	P	128.5	931.0	930.2	0.65	1.6	5.1	5.1	1.3	0.0	6.4	12
12A	17252.36	0.40	233.66	931.88	926.96	Z	0.51	41.0	931.9	931.00	2.1	P	192.7	931.0	927.0	2.10	2.9	5.3	5.3	1.1	0.0	6.4	12A
13	7553.75	0.17	170.90	934.78	928.45	Z	0.51	41.0	934.8	933.90	2.1	P	129.9	933.9	928.5	4.20	4.2	5.3	5.3	0.5	0.0	5.8	13
14	10319.86	0.24	185.23	935.25	928.45	Z	0.51	52.0	935.3	934.00	2.4	P	132.2	934.0	928.5	4.17	4.1	5.7	5.7	0.5	0.0	6.3	14
15	11569.19	0.27	234.00	939.04	933.63	Z	0.51	39.0	939.0	938.00	2.7	P	195.0	939.0	933.6	2.24	3.0	4.8	5.0	1.1	0.0	6.1	15
16	13198.77	0.30	230.00	950.00	943.27	Z	0.51	43.0	950.0	949.00	2.3	P	277.0	949.0	943.3	2.07	2.9	5.3	5.3	1.6	0.0	6.8	16
17	24027.80	0.55	166.41	945.70	939.00	Z	0.51	100.0	945.7	942.18	3.5	U	66.4	942.2	939.0	4.79	3.5	7.0	7.0	0.3	0.0	7.3	17
18	16202.76	0.37	131.94	950.00	938.00	Z	0.51	100.0	950.0	942.00	8.0	U	31.9	942.0	938.0	12.52	5.7	5.3	5.3	0.1	0.0	5.4	18
19	14584.08	0.33	148.49	948.10	935.00	Z	0.51	100.0	948.1	940.25	7.9	U	48.5	940.3	935.0	10.83	5.3	5.3	5.3	0.2	0.0	5.5	19
20	18091.85	0.42	249.00	945.75	932.00	Z	0.51	100.0	945.8	937.75	8.0	U	149.0	937.8	932.0	3.86	3.2	5.3	5.3	0.8	0.0	6.1	20
21	53827.98	1.24	319.00	940.00	925.29	Z	0.51	100.0	940.0	932.00	8.0	P	219.0	932.0	925.3	3.06	3.6	5.3	5.3	1.0	0.0	6.3	21
22	21998.83	0.51	282.00	929.30	925.29	Z	0.51	39.0	929.3	927.20	5.4	P	243.0	927.2	925.3	0.79	1.8	3.8	5.0	2.2	0.0	7.2	22
23	20222.46	0.46	362.00	934.51	927.12	Z	0.51	34.0	934.5	932.00	7.4	P	328.0	932.0	927.1	1.49	2.5	3.2	5.0	2.2	0.0	7.2	23
24	55859.77	1.28	407.59	941.00	927.12	Z	0.51	100.0	941.0	935.50	5.5	P	307.6	935.5	927.1	2.72	3.4	6.0	6.0	1.5	0.0	7.5	24

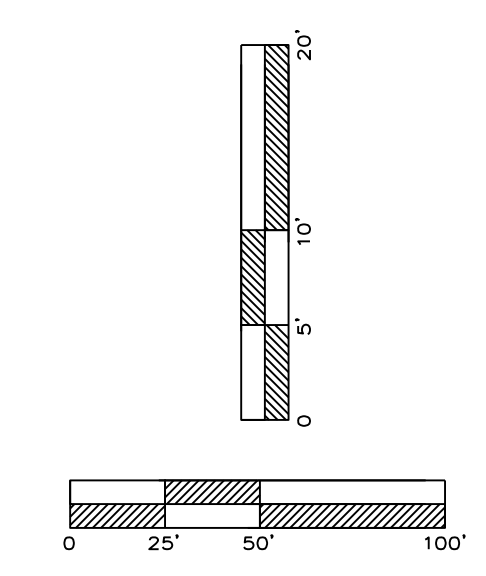
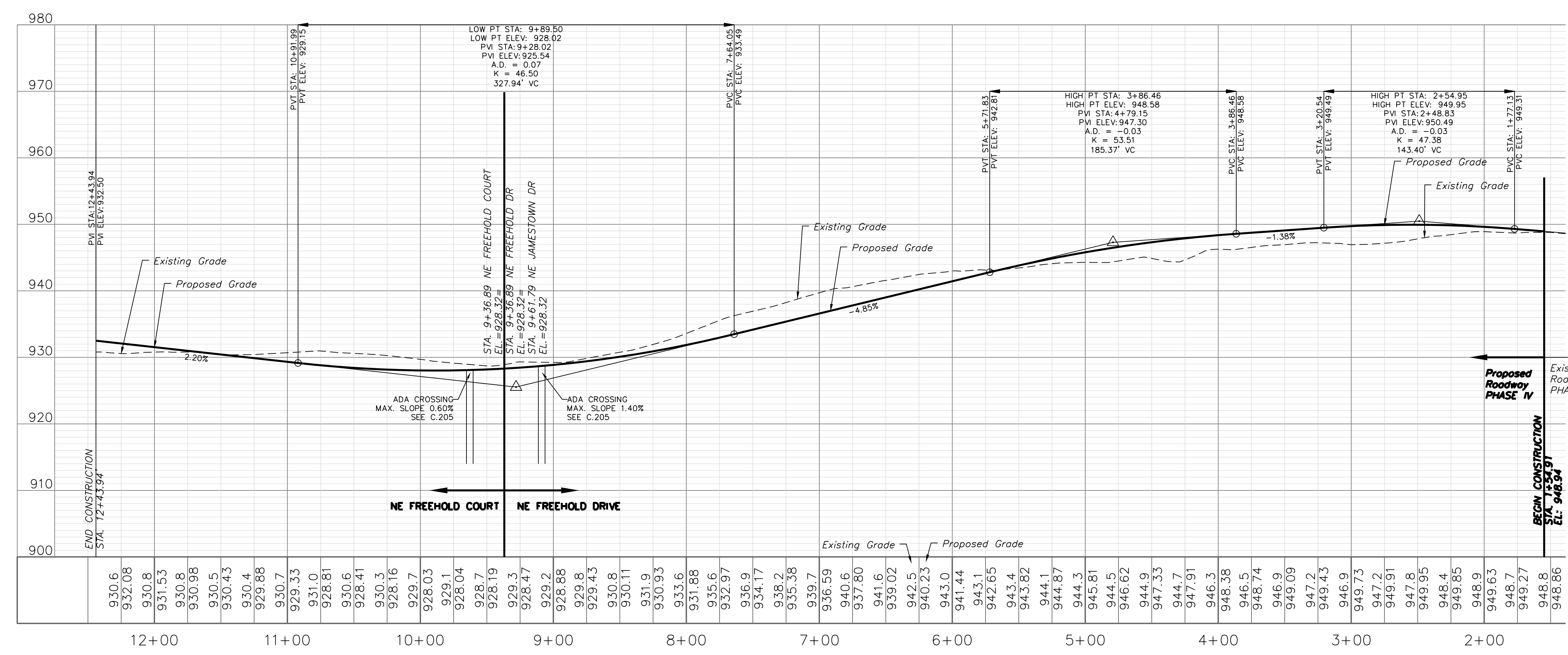


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NE FREEHOLD COURT

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Surveying 200500518-D
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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: Monticello
Monticello 4th Plat
Issue Date: April 10, 2020

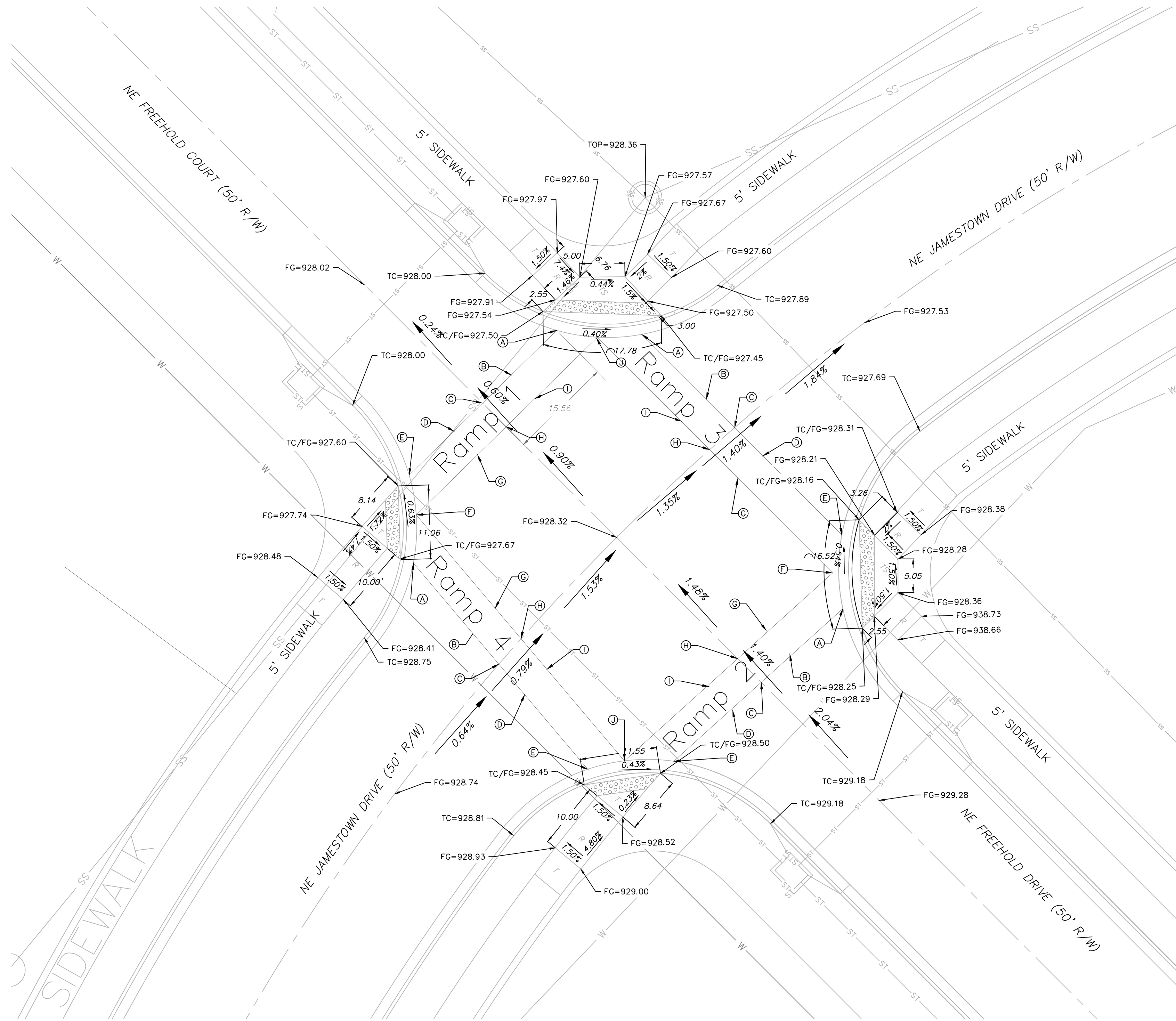
Street Plan and Profile
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER
NO. 000000000
EXPIRATION DATE 12/31/2025

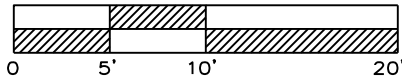
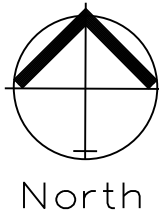
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KS PE 19071
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REVISIONS
2/4/2021 As-Built

C. 204



SPOT ELEVATION TABLE				
	Ramp 1	Ramp 2	Ramp 3	Ramp 4
Spot	Elevation	Elevation	Elevation	Elevation
A	927.50	928.22	927.45	927.67
B	927.96	928.65	927.87	928.46
C	928.08	928.77	927.99	928.58
D	927.96	928.65	928.03	928.46
E	927.60	928.50	928.16	928.45
F	927.67	928.20	928.20	927.60
G	927.99	928.58	928.13	928.42
H	928.11	928.70	928.06	928.54
I	927.99	928.58	927.94	928.42
J	927.47	928.45	927.47	928.50



INTERSECTION / ADA RAMP ELEVATIONS
SCALE: 1" = 10'

NOTE:
ALL ADA ACCESSIBLE RAMPS TO BE CONSTRUCTED WITH STREET IMPROVEMENTS.

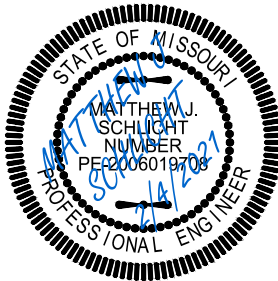


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Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project:
Monticello
Issue Date:
April 10, 2020

Intersection Details & ADA Ramp Plan
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

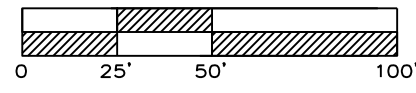
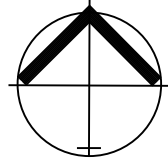


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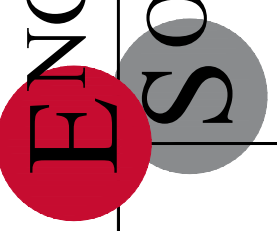
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STREET LAYOUT SHEET

SCALE: 1" = 50'

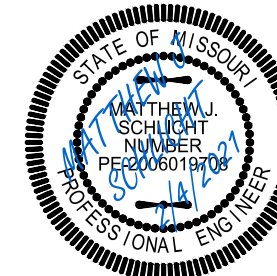


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Project:
Monticello
Issue Date:
April 10, 2020

STREET LAYOUT SHEET
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

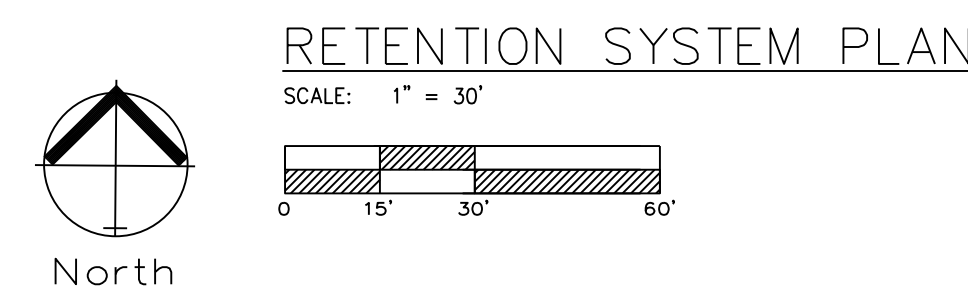


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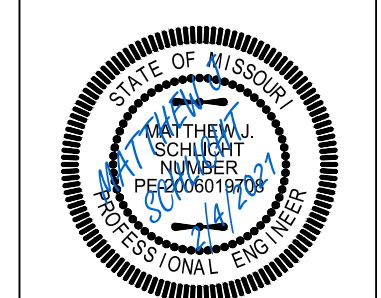
Professional Registration
 Missouri
Engineering 2005002186-D
Surveying 2005008319-D
 Kansas
Engineering E-1695
Surveying LS-218
 Oklahoma
Engineering 6254
 Nebraska
Engineering CA2821

Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Project: Monticello
Issue Date: April 10, 2020

Post-Development Drainage Area Map

Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

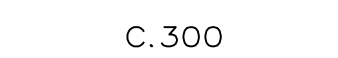


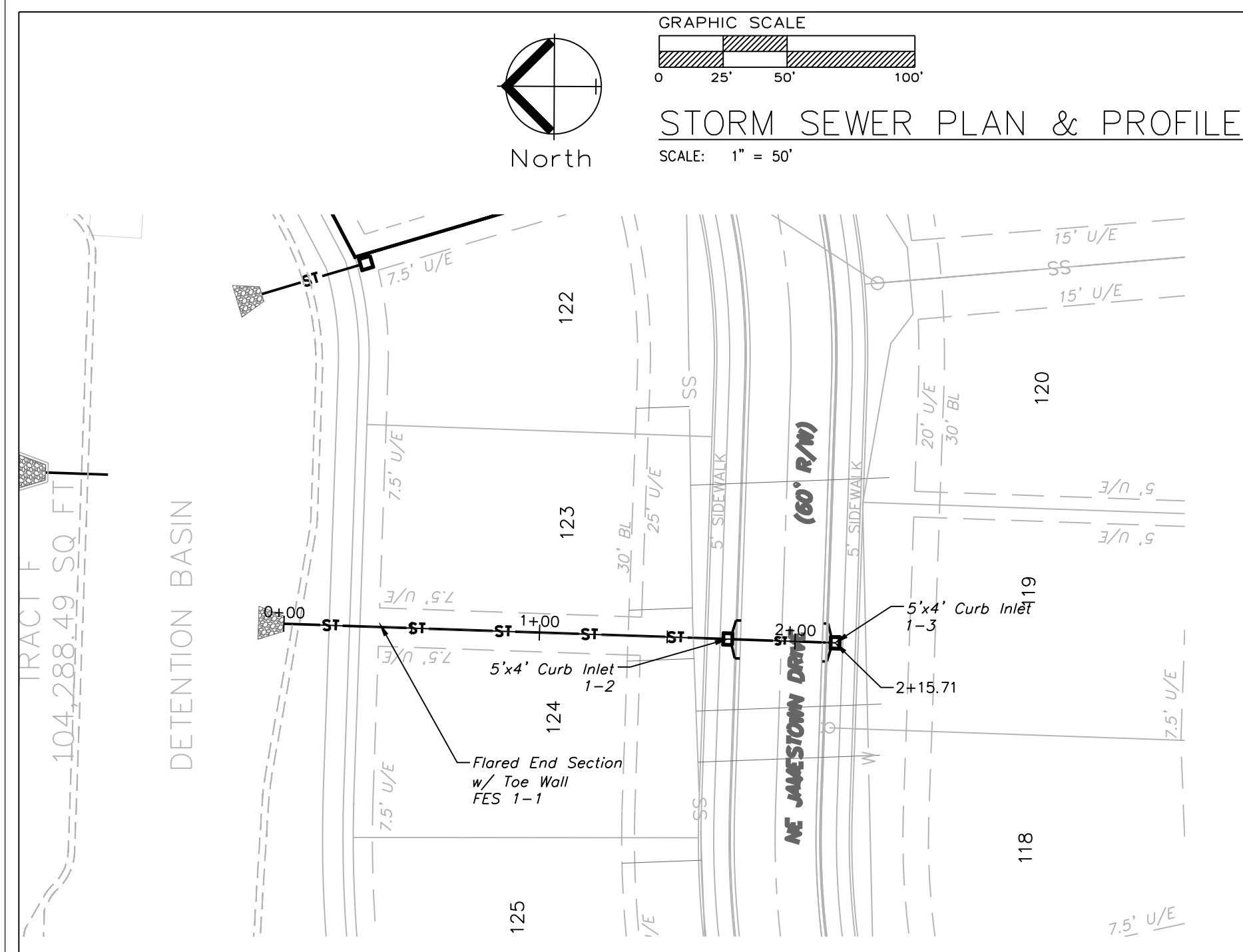
Matthew J. Schlicht
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KS PE 19071
OK PE 25226
REVISIONS

2/4/2021 As-Built

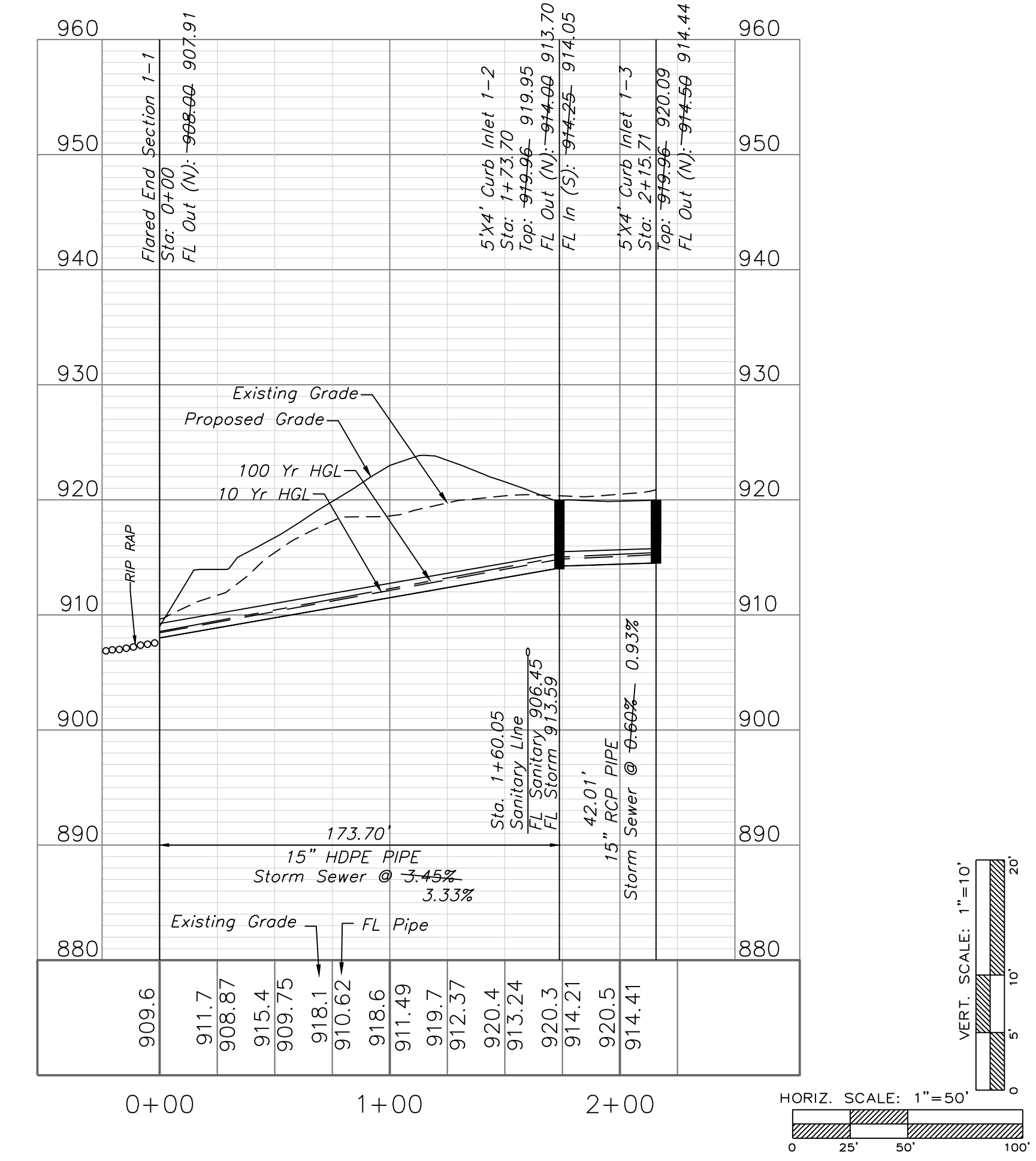
C.207

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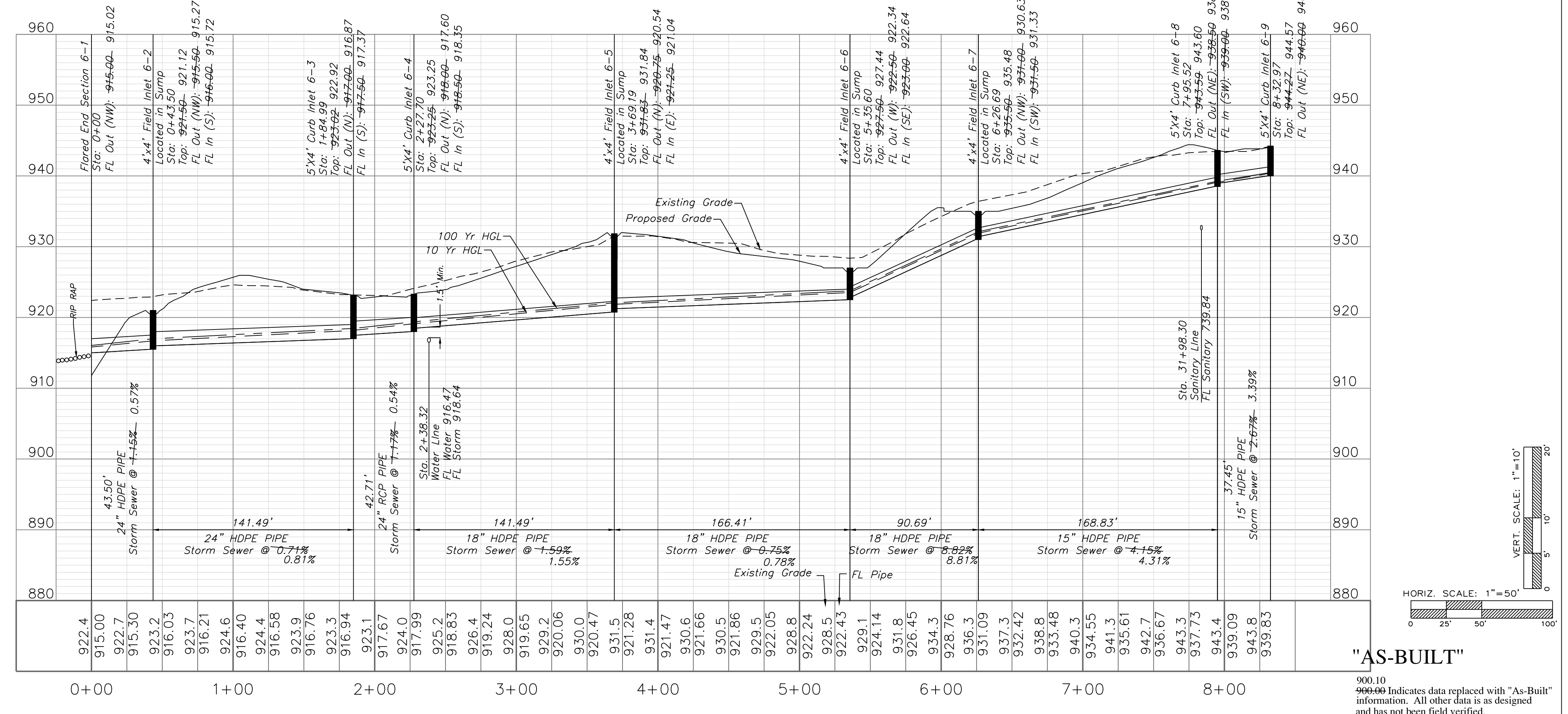




STORM 1



STORM 6



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Surveying 2005000518-D

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Engineering 6254

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Project: Monticello

Monticello 4th Plat

Lee's Summit, Jackson County, Missouri

Issue Date: April 10, 2020

Storm Sewer Plan and Profile

Construction Plans for:

Monticello 4th Plat

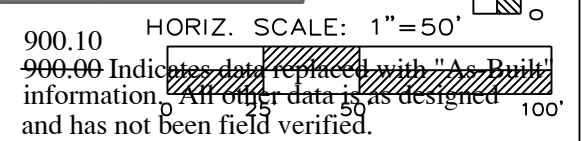
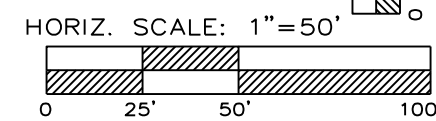
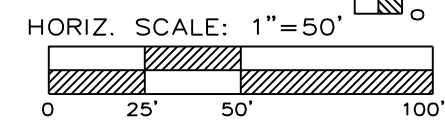
Lee's Summit, Jackson County, Missouri

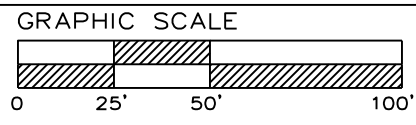
Matthew J. Schlicht
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KS PE 19071
OK PE 25326

REVISIONS

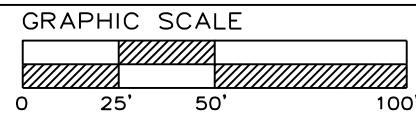
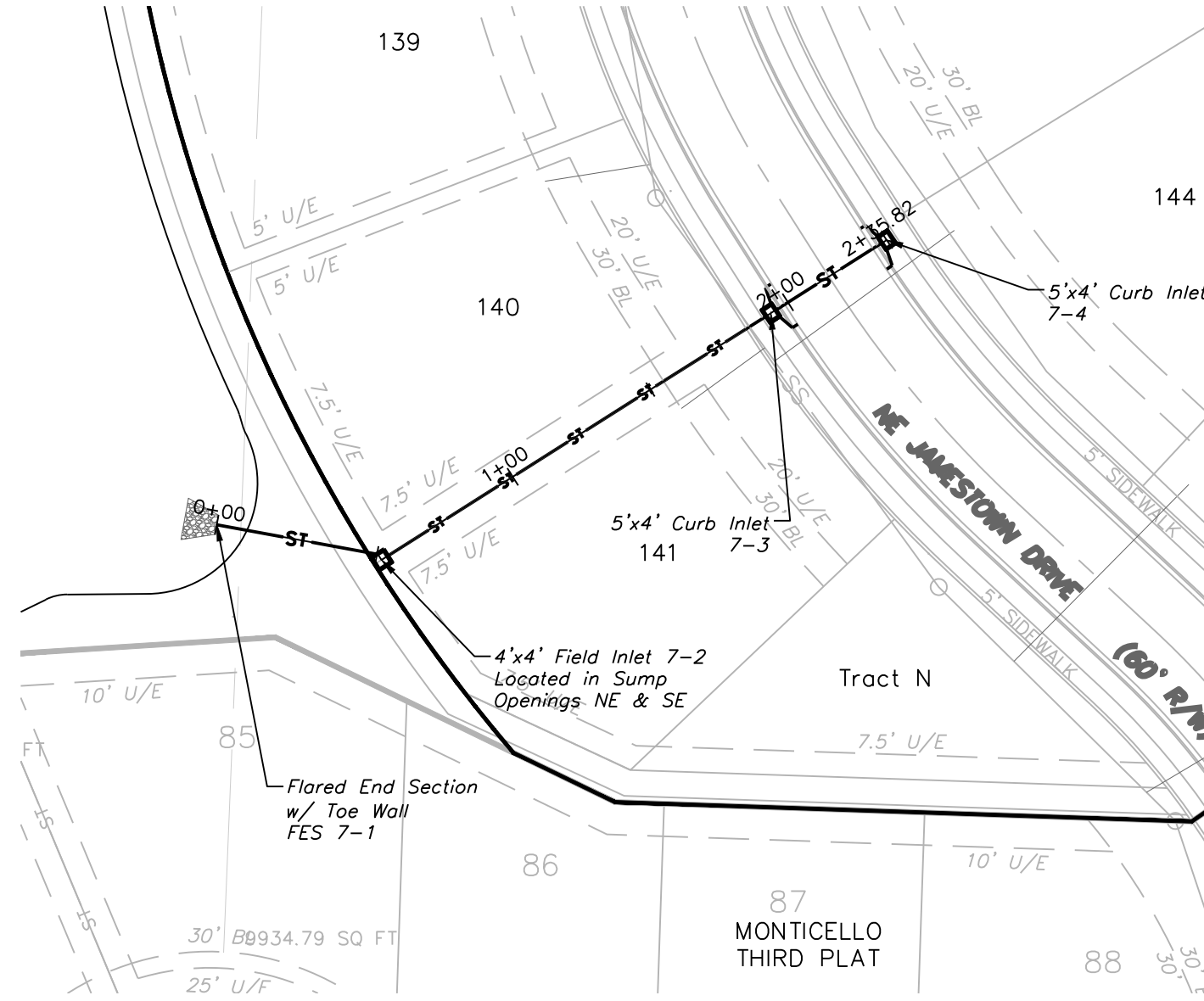
2/4/2021 As-Built

C.301

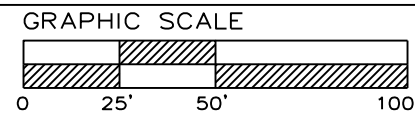
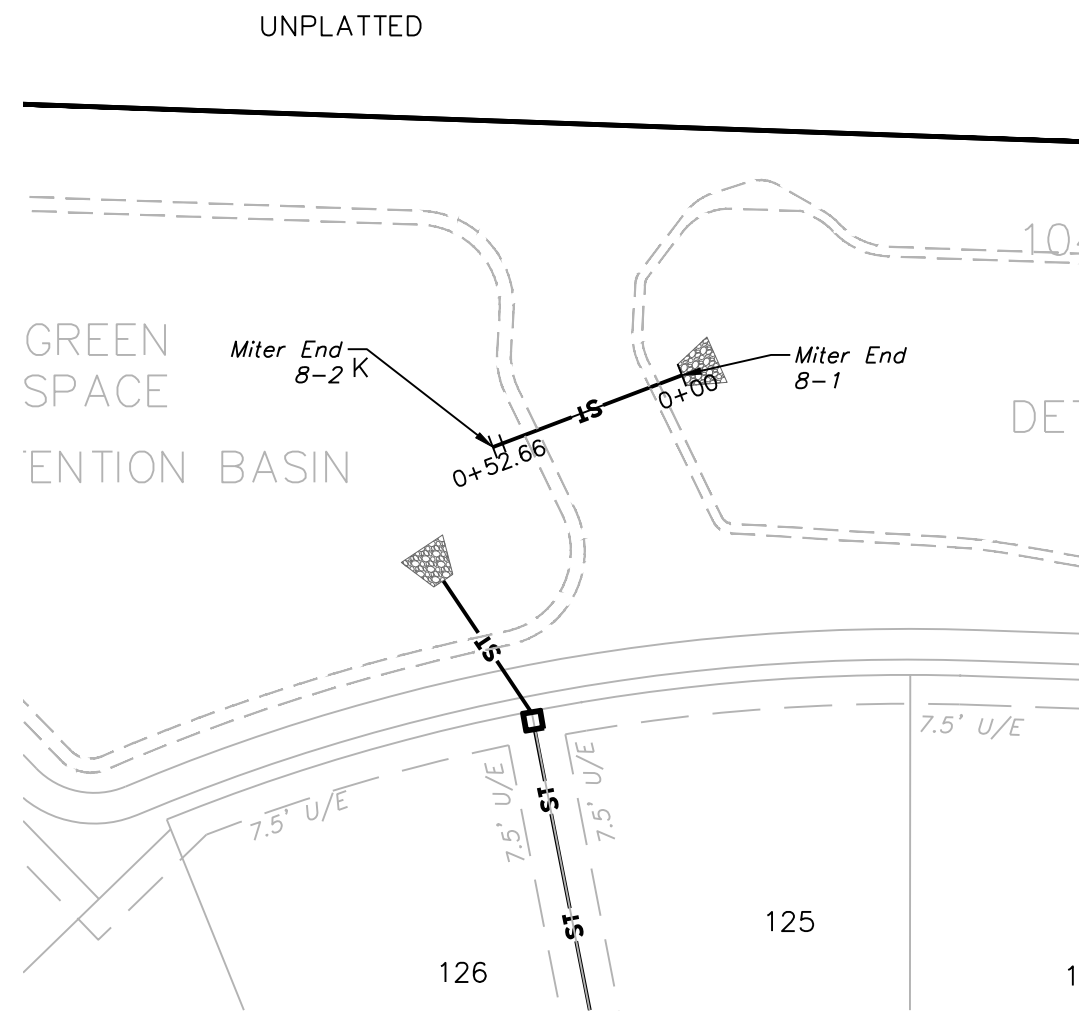




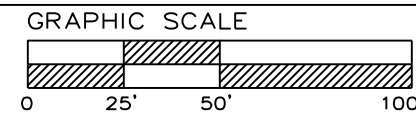
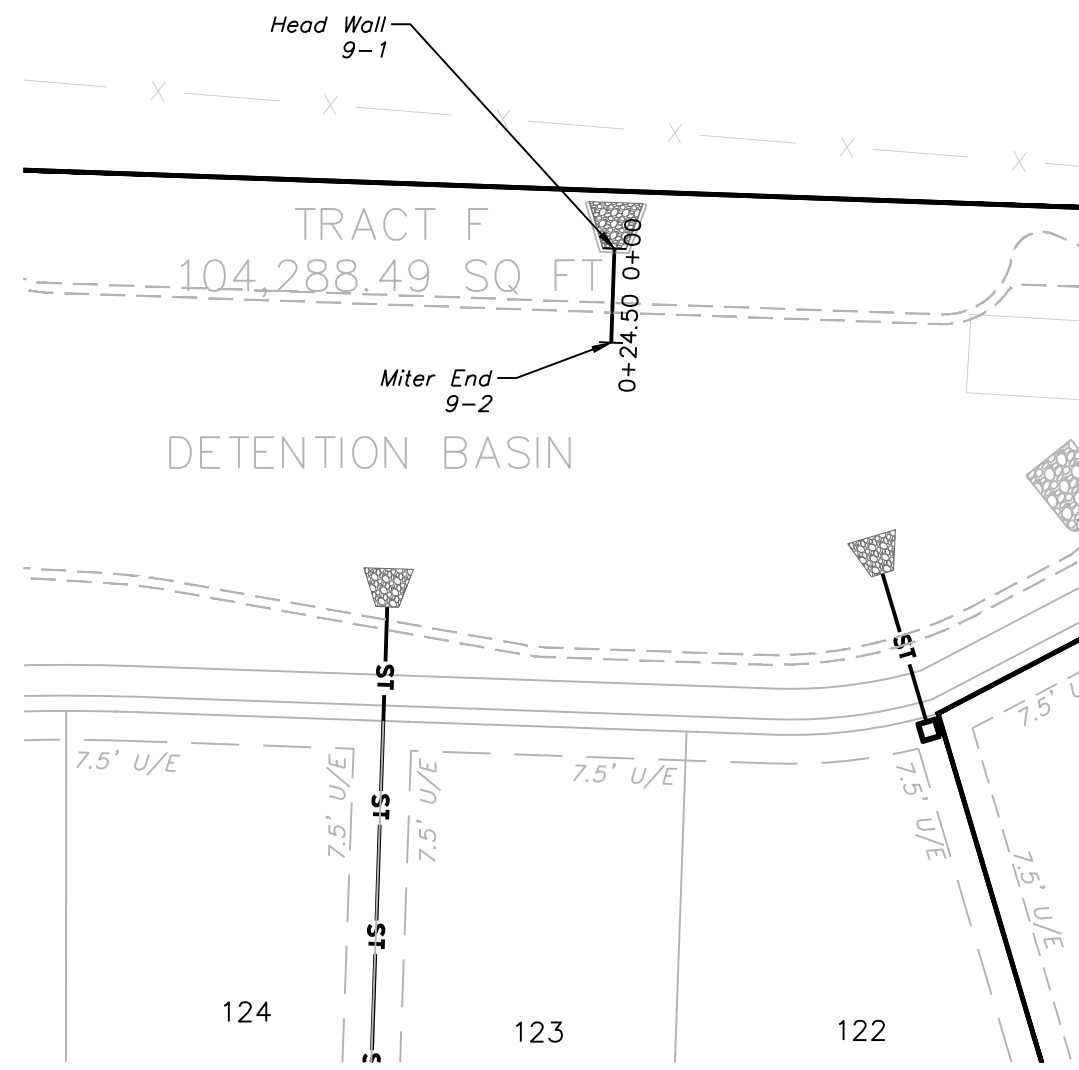
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



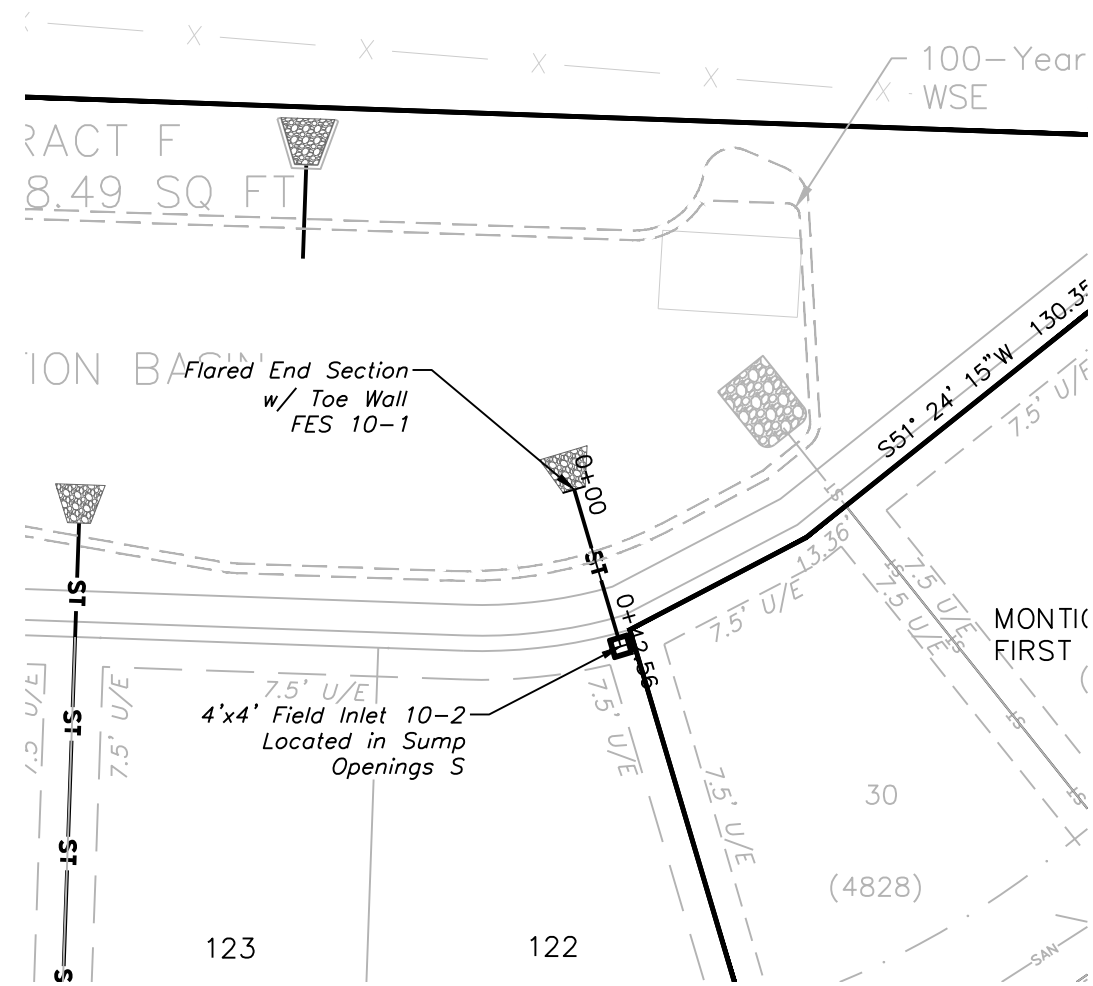
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



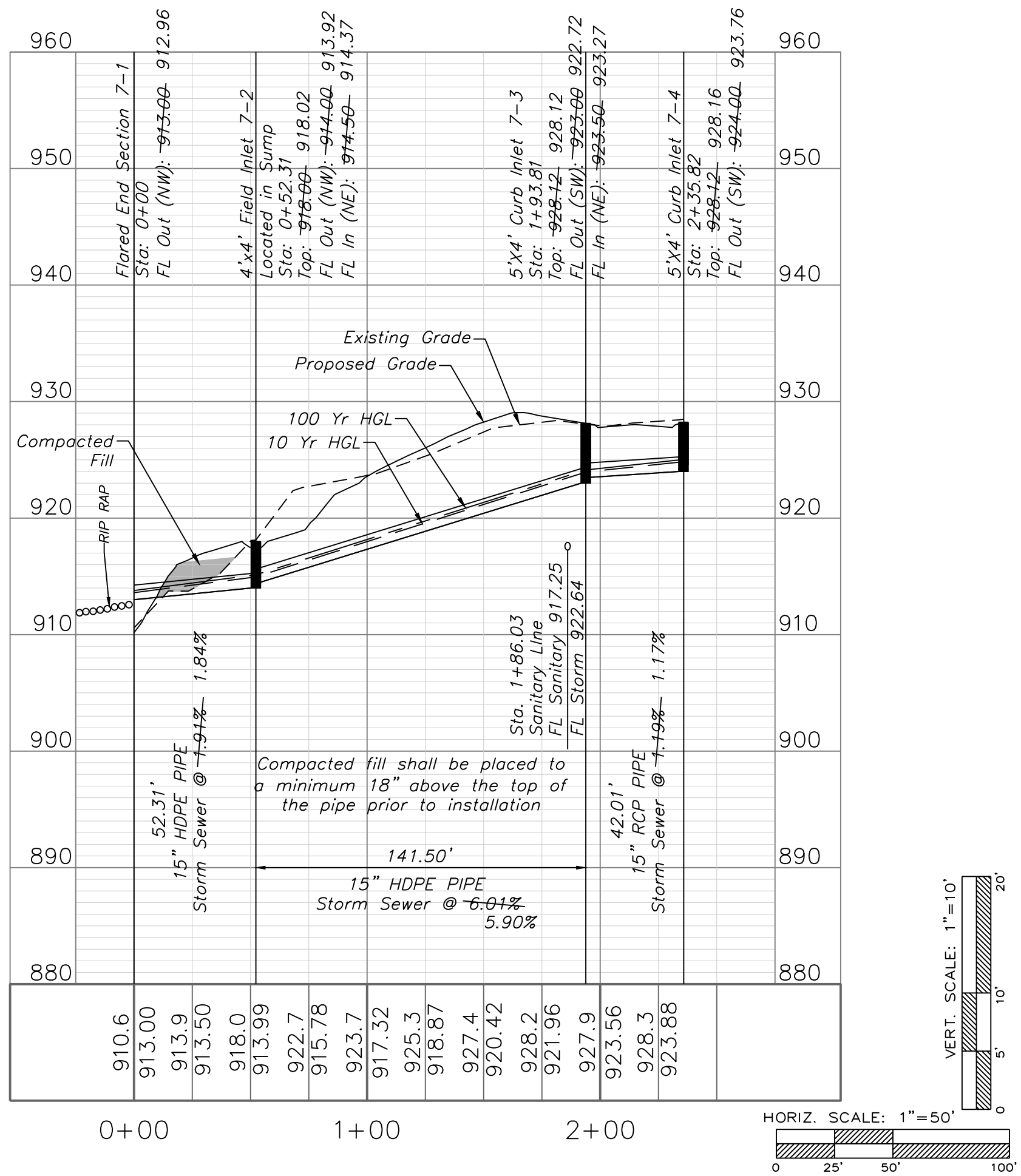
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



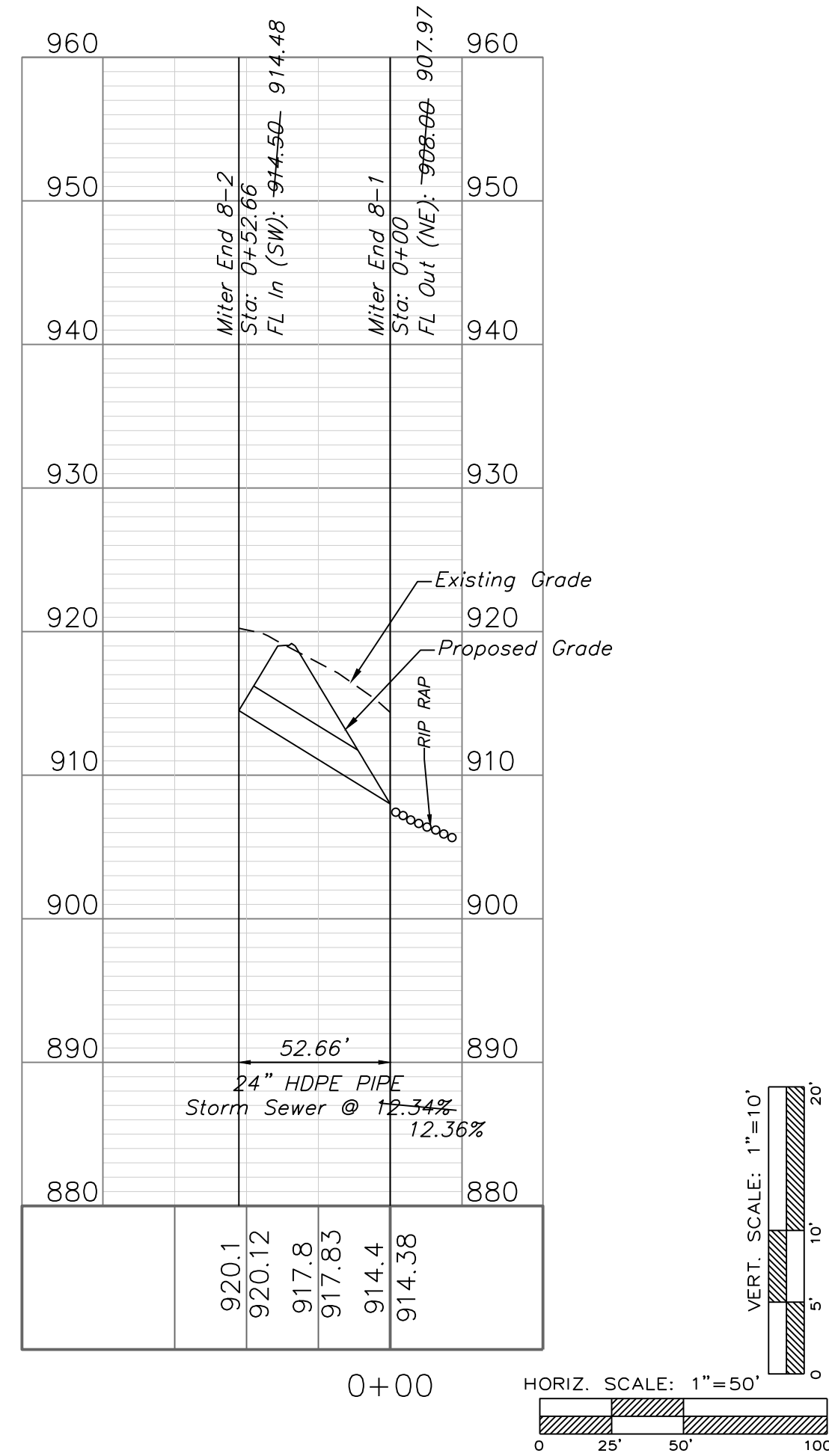
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SCALE: 1" = 50'



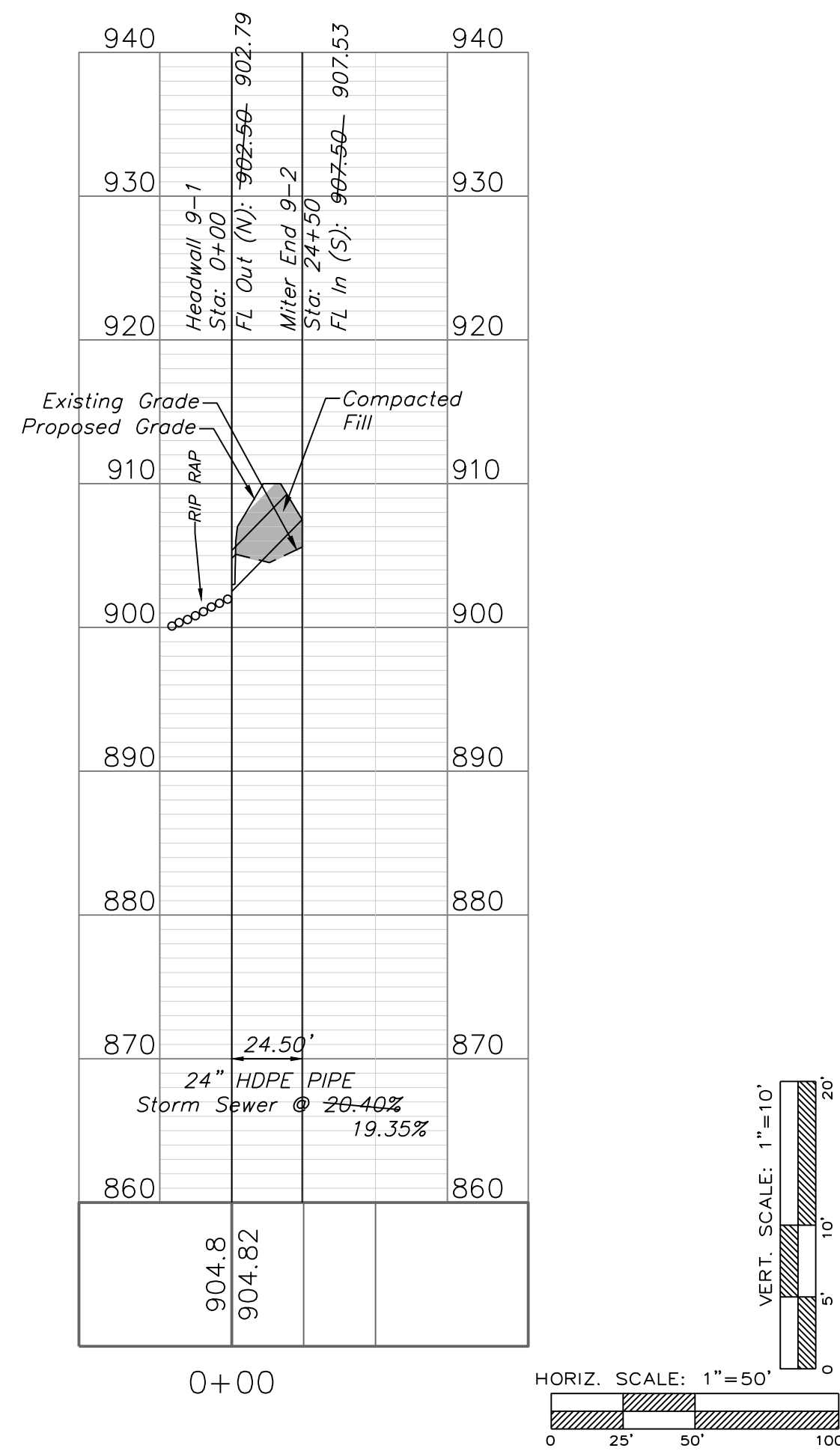
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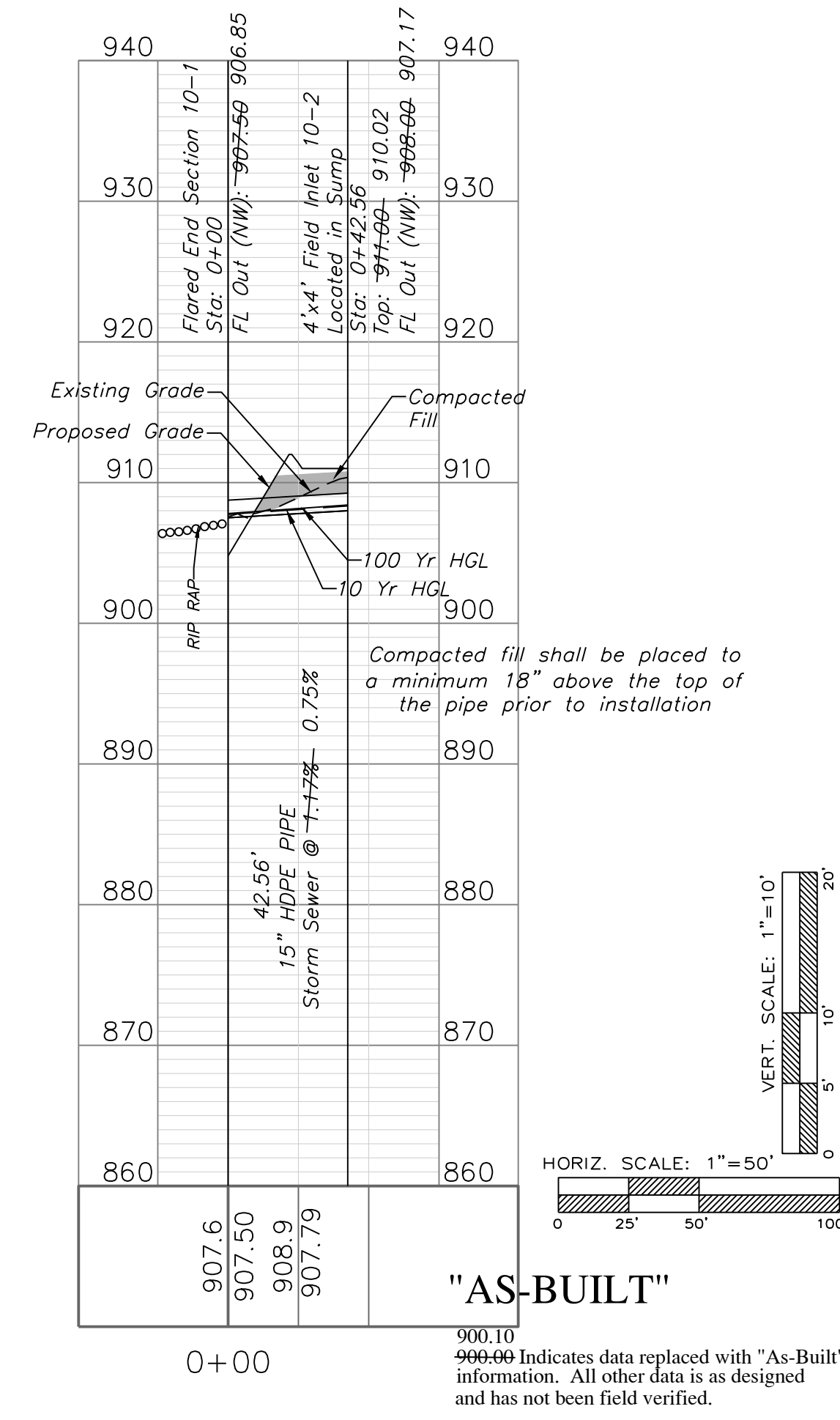
STORM 8



STORM 9



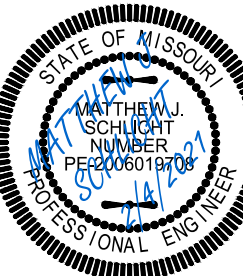
STORM 10



Professional Registration
Missouri
Engineering 200502188-D
Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Monticello
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri
Issue Date:
April 10, 2020

Storm Sewer Plan and Profile
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



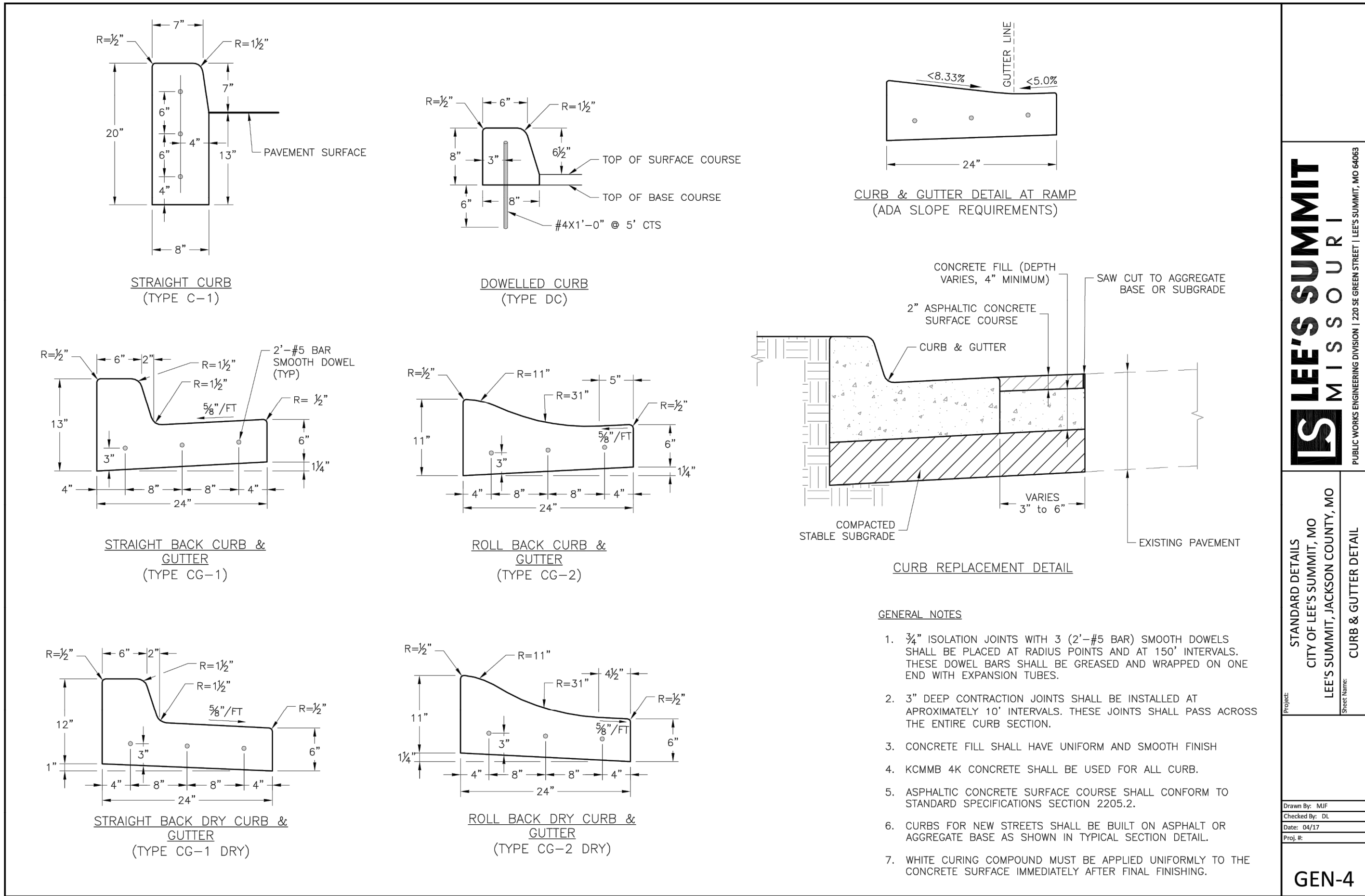
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526
REVISIONS
2/4/2021 As-Built

10 YEAR INLET																						
D.S. Str.	Str.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2	0.39	9.1	6.27	0.51	1.25	0.64	1.88	0.00	Curb	10	5	Sag	2	0.05	0.02	0.25	n/a	n/a	0.25	9.53	Sag
1-2	1-3	0.95	5.9	7.02	0.51	3.40	2.89	6.29	0.00	Curb	10	5	Sag	2	0.05	0.02	0.56	n/a	n/a	0.56	25.00	Sag
2-1	2-2	0.27	6.1	6.97	0.51	0.96	0.00	0.45	0.51	Curb	10	5	0.022	2	0.05	0.02	0.15	0.12	3.08	0.15	4.53	2-3
2-2	2-3	0.19	5.8	7.05	0.51	0.68	0.51	1.19	0.00	Curb	10	5	Sag	2	0.05	0.02	0.18	n/a	n/a	0.18	6.24	Sag
2-3	2-4	0.4	6.4	6.89	0.51	1.41	0.38	1.78	0.00	Curb	10	5	Sag	2	0.05	0.02	0.24	n/a	n/a	0.24	9.08	Sag
2-4	2-5	0.24	6.3	6.92	0.51	0.85	1.11	0.60	1.35	Curb	10	5	0.034	2	0.05	0.02	0.18	0.16	4.85	0.18	5.83	5-3
2-5	2-6	0.27	6.1	6.97	0.51	0.96	0.65	0.50	1.11	Curb	10	5	0.049	2	0.05	0.02	0.16	0.14	3.92	0.16	4.82	2-5
2-6	2-7	0.36	5.7	7.08	0.51	1.30	0.89	0.59	1.61	Curb	10	5	0.049	2	0.05	0.02	0.17	0.16	4.82	0.17	5.64	4-1
2-2	3-1	0.22	6.4	6.89	0.51	0.77	0.00	0.40	0.38	Curb	10	5	0.022	2	0.05	0.02	0.14	0.11	2.46	0.14	4.01	2-4
2-5	4-1	0.17	5.8	7.05	0.51	0.61	1.61	0.64	1.57	Curb	10	5	0.034	2	0.05	0.02	0.18	0.16	5.23	0.18	6.18	6-4
5-1	5-2	0.51	9.7	6.15	0.51	1.60	0.88	2.48	0.00	Curb	10	5	Sag	2	0.05	0.02	0.30	n/a	n/a	0.30	12.05	Sag
5-2	5-3	1.24	6.3	6.92	0.51	4.38	4.65	9.03	0.00	Curb	10	5	Sag	2	0.05	0.02	0.71	n/a	n/a	0.71	32.63	Sag
5-3	5-4	0.42	6.1	6.97	0.51	1.49	0.00	1.49	0.00	Dp-Curb	4	16	Sag	.....	0.02	0.02	0.10	n/a	n/a	0.10	4.94	Sag
5-4	5-5	0.33	5.5	7.13	0.51	1.20	0.00	1.20	0.00	Dp-Curb	4	16	Sag	.....	0.02	0.02	0.09	n/a	n/a	0.09	4.27	Sag
5-5	5-6	0.37	5.4	7.16	0.51	1.35	0.00	1.35	0.00	Dp-Curb	4	16	Sag	.....	0.02	0.02	0.09	n/a	n/a	0.09	4.62	Sag
5-6	5-7	0.55	7.3	6.67	0.51	1.87	0.00	1.87	0.00	Dp-Curb	4	16	Sag	.....	0.02	0.02	0.11	n/a	n/a	0.11	5.74	Sag
6-1	6-2	0.22	8.4	6.42	0.51	0.72	0.00	0.72	0.00	Curb	4	12	Sag	.....	0.02	0.02	0.07	n/a	n/a	0.07	3.68	Sag
6-2	6-3	0.3	5.8	7.05	0.51	1.08	0.00	0.44	0.64	Curb	10	5	0.032	2	0.05	0.02	0.15	0.12	3.16	0.15	4.36	1-2
6-3	6-4	0.61	6.1	6.97	0.51	2.17	1.57	0.86	2.89	Curb	10	5	0.032	2	0.05	0.02	0.22	0.20	7.07	0.22	7.93	1-3
6-4	6-5	0.36	5.7	7.08	0.51	1.30	0.00	1.30	0.00	Dp-Curb	4	8	Sag	.....	0.02	0.02	0.14	n/a	n/a	0.14	7.15	Sag
6-5	6-6	0.44	6.3	6.92	0.51	1.55	0.00	1.55	0.00	Dp-Curb	4	8	Sag	.....	0.02	0.02	0.16	n/a	n/a	0.16	8.05	Sag
6-6	6-7	1.19	10.3	6.03	0.51	3.66	0.00	3.66	0.00	Dp-Curb	4	16	Sag	.....	0.02	0.02	0.18	n/a	n/a	0.18	8.99	Sag
6-7	6-8	0.39	6.9	6.77	0.51	1.35	0.00	0.45	0.89	Curb	10	5	0.049	2	0.05	0.02	0.15	0.13	3.44	0.15	4.38	2-7
6-8	6-9	0.3	6.8	6.79	0.51	1.04	0.00	0.39	0.65	Curb	10	5	0.049	2	0.05	0.02	0.14	0.11	2.75	0.14	3.77	2-6
7-1	7-2	0	0	0	0.51	0.00	0.00	0.00	0.00	Dp-Curb	4	8	Sag	.....	0.02	0.02	0.00	n/a	n/a	0.00	0.00	Sag
7-2	7-3	0.46	9.4	6.21	0.51	1.46	0.00	0.58	0.88	Curb	10	5	0.02	2	0.05	0.02	0.17	0.15	4.41	0.17	5.72	5-2
7-3	7-4	1.28	7.5	6.63	0.51	4.33	0.00	1.03	3.30	Curb	10	5	0.02	2	0.05	0.02	0.25	0.23	8.28	0.25	9.29	5-3
10-1	10-2	0.2	5.2	7.21	0.51	0.74	0.00	0.74	0.00	Dp-Curb	4	4	Sag	.....	0.02	0.02	0.16	n/a	n/a	0.16	7.77	Sag

10 YEAR PIPE																						
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)
1-1	1-2	173.7	0.39	1.34	0.51	0.20	0.68	9.10	9.10	6.30	4.29	4.29	15.6	7.88	15	3.45	908.00	914.00	908.45	914.84	0.00	919.96
1-2	1-3	42.01	0.95	0.95	0.51	0.48	0.48	5.90	5.90	7.00	3.40	3.40	6.48	4.91	15	0.6	914.25	914.50	914.89	915.24	919.96	919.96
2-1	2-2	185.79	0.27	2.12	0.51	0.14	1.08	6.10	7.30	6.70	7.20	7.20	48.24	7.95	24	2.69	915.00	920.00	915.52	920.95	0.00	950.33
2-2	2-3	154.81	0.19	1.63	0.51	0.10	0.83	5.80	6.90	6.80	5.63	5.63	23.63	5.34	24	0.65	920.50	921.50	921.16	922.34	950.33	927.96
2-3	2-4	34	0.40	1.44	0.51	0.20	0.73	6.40	6.80	6.80	4.99	4.99	16.55	6.48	18	1.47	922.00	922.50	922.57	923.36	927.96	927.96
2-4	2-5	103.46	0.24	1.04	0.51	0.12	0.53	6.30	6.50	6.90	3.65	3.65	16.44	5.88	18	1.45	923.00	924.50	923.48	925.23	927.96	929.45
2-5	2-6	140.4	0.27	0.63	0.51	0.14	0.32	6.10	6.10	7.00	2.24	2.24	14.17	6.14	15	2.85	925.00	929.00	925.34	929.60	929.45	934.63
2-6	2-7	33.91	0.36	0.36	0.51	0.18	0.18	5.70	5.70	7.10	1.30	1.30	10.19	4.48	15	1.47	929.50	930.00	929.80	930.45	934.63	934.63
2-2	3-1	51.92	0.22	0.22	0.51	0.11	0.11	6.40	6.40	6.90	0.77	0.77	27.32	2.37	15	10.59	920.50	926.00	920.95	926.34	950.33	931.17
2-5	4-1	33.91	0.17	0.17	0.51	0.09	0.09	5.80	5.80	7.00	0.61	0.61	10.19	3.31	15	1.47	925.00	925.50	925.23	925.80	929.45	929.45
5-1	5-2	186.29	0.51	3.42	0.51	0.26	1.74	9.70	9.70	6.20	10.73	10.73	54.92	9.58	24	3.49	913.00	919.50	913.60	920.67	0.00	926.29
5-2	5-3	42.04	1.24	2.91	0.51	0.63	1.48	6.30	8.70	6.40	9.45	9.45	18.23	8.36	18	1.78	920.00	920.75	920.77	921.94	926.29	926.29
5-3	5-4	139.01	0.42	1.67	0.51	0.21	0.85	6.10	8.30	6.50	5.50	5.50	26.53	5.95	18	3.78	921.25	926.50	921.94	927.40	926.29	932.00
5-4	5-5	143.57	0.33	1.25	0.51	0.17	0.64	5.50	7.90	6.50	4.16	4.16	11.08	6.61	15	1.74	927.00	929.50	927.53	930.33	932.00	935.00
5-5	5-6	99.32	0.37	0.92	0.51	0.19	0.47	5.40	7.70	6.60	3.09	3.09	14.59	6.88	15	3.02	930.00	933.00	930.39	933.71	935.00	938.00
5-6	5-7	107.14	0.55	0.55	0.51	0.28	0.28	7.30	7.30	6.70	1.87	1.87	9.93	4.93	15	1.4	933.50	935.00	933.87	935.54	938.00	939.00
6-1	6-2	43.5	0.22	3.81	0.51	0.11	1.94	8.40	11.70	5.80	11.22	11.22	31.52	7.44	24	1.15	915.00	915.50	915.82	916.70	0.00	921.50
6-2	6-3	141.49	0.30	3.59	0.51	0.15	1.83	5.80	11.30	5.80	10.69	10.69	24.72	6.59	24	0.71	916.00	917.00	916.92	918.17	921.50	923.02
6-3	6-4	42.71	0.61	3.29	0.51	0.31	1.68	6.10	11.20	5.90	9.83	9.83	31.81	7.17	24	1.17	917.50	918.00	918.26	919.12	923.02	923.25
6-4	6-5	141.49	0.36	2.68	0.51	0.18	1.37	5.70	10.90	5.90	8.08	8.08	17.22	7.7	18	1.59	918.50	920.75	919.22	921.85	923.25	931.83
6-5	6-6	166.41	0.44	2.32	0.51	0.22	1.18	6.30	10.50	6.00	7.09	7.09	11.83	6.24	18	0.75	921.25	922.50	922.09	923.53	931.83	927.50
6-6	6-7	90.69	1.19	1.88	0.51	0.61	0.96	10.30	10.30	6.00	5.79	5.79	40.55	7.7	18	8.82	923.00	931.00	923.53	931.93	927.50	935.50
6-7	6-8	168.83	0.39	0.69	0.51	0.20	0.35	6.90	6.90	6.80	2.38	2.38	17.09	5.18	15	4.15	931.50	938.50	931.93	939.12	935.50	943.59
6-8	6-9	37.45	0.30	0.30	0.51	0.15	0.15	6.80	6.80	6.80	1.04	1.04	13.72	4.83	15	2.67	939.00	940.00	939.23	940.40	943.59	944.27
7-1	7-2	52.31	0.00	1.74	0.51	0.00	0.89	0.00	9.60	6.20	5.47	5.47	11.61	7.4	15	1.91	913.00	914.00	913.60	914.95	0.00	918.00
7-2	7-3	141.5	0.46	1.74	0.51	0.23	0.89	9.40	9.40	6.20	5.51	5.51	20.57	9.75	15	6.01	914.50	923.00	914.95	923.95	918.00	928.12
7-3	7-4	42.01	1.28	1.28	0.51	0.65	0.65	7.50	7.50	6.60	4.33	4.33	9.16	6.14	15	1.19	923.50	924.00	924.10	924.84	928.12	928.12
10-1	10-2	42.56	0.20	0.20	0.51	0.10	0.10	5.20	5.20	7.20	0.74	0.74	9.1	3.62	15	1.17	907.50	908.00	907.74	908.34	0.00	911.00

100 YEAR INLET																						
D.S. Str.	Str.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2	0.39	9.1	9.49	0.51	1.89	1.08	2.96	0.00	Curb	10	5	Sag	2	0.05	0.02	0.34	n/a	n/a	0.34	13.95	Sag
1-2	1-3	0.95	5.9	10.62	0.51	5.15	4.97	10.12	0.00	Curb	10	5	Sag	2	0.05	0.02	0.77	n/a	n/a	0.77	35.46	Sag
2-1	2-2	0.27	6.1	10.54	0.51	1.45	0.00	0.57	0.88	Curb	10	5	0.022	2	0.05	0.02	0.17	0.15	4.33	0.17	5.60	2-3
2-2	2-3	0.19	5.8	10.66	0.51	1.03	0.88	1.92	0.00	Curb	10	5	Sag	2	0.05	0.02	0.25	n/a	n/a	0.25	9.68	Sag
2-3	2-4	0.4	6.4	10.43	0.51	2.13	0.67	2.79	0.00	Curb	10	5	Sag	2	0.05	0.02	0.33	n/a	n/a	0.33	13.30	Sag
2-4	2-5	0.24	6.3	10.47	0.51	1.28	1.90	0.78	2.40	Curb	10	5	0.034	2	0.05	0.02	0.21	0.19	6.42	0.21	7.29	5-3
2-5	2-6	0.27	6.1	10.54	0.51	1.45	1.08	0.63	1.90	Curb	10	5	0.049	2	0.05	0.02	0.18	0.16	5.25	0.18	6.04	2-5
2-6	2-7	0.36	5.7	10.7	0.51	1.97	1.47	0.74	2.70	Curb	10	5	0.049	2	0.05	0.02	0.20	0.18	6.22	0.20	6.95	4-1
2-2	3-1	0.22	6.4	10.43	0.51	1.17	0.00	0.50	0.67	Curb	10	5	0.022	2	0.05	0.02	0.16	0.13	3.67	0.16	5.03	2-4
2-5	4-1	0.17	5.8	10.66	0.51	0.92	2.70	0.83	2.79	Curb	10	5	0.034	2	0.05	0.02	0.21	0.20	6.87	0.21	7.72	6-4
5-1	5-2	0.51	9.7	9.3	0.51	2.42	1.48	3.90	0.00	Curb	10	5	Sag	2	0.05	0.02	0.41	n/a	n/a	0.41	17.36	Sag
5-2	5-3	1.24	6.3	10.47	0.51	6.62	7.67	14.29	0.00	Curb	10	5	Sag	2	0.05	0.02	0.97	n/a	n/a	0.97	45.41	Sag
5-3	5-4	0.42	6.1	10.54	0.51	2.26	0.00	2.26	0.00	Dp-Curb	4	16	Sag	....	0.02	0.02	0.13	n/a	n/a	0.13	6.51	Sag
5-4	5-5	0.33	5.5	10.79	0.51	1.82	0.00	1.82	0.00	Dp-Curb	4	16	Sag	....	0.02	0.02	0.11	n/a	n/a	0.11	5.63	Sag
5-5	5-6	0.37	5.4	10.83	0.51	2.04	0.00	2.04	0.00	Dp-Curb	4	16	Sag	....	0.02	0.02	0.12	n/a	n/a	0.12	6.09	Sag
5-6	5-7	0.55	7.3	10.09	0.51	2.83	0.00	2.83	0.00	Dp-Curb	4	16	Sag	....	0.02	0.02	0.15	n/a	n/a	0.15	7.57	Sag
6-1	6-2	0.22	8.4	9.71	0.51	1.09	0.00	1.09	0.00	Dp-Curb	4	12	Sag	....	0.02	0.02	0.10	n/a	n/a	0.10	4.85	Sag
6-2	6-3	0.3	5.8	10.66	0.51	1.63	0.00	0.55	1.08	Curb	10	5	0.032	2	0.05	0.02	0.17	0.15	4.35	0.17	5.41	1-2
6-3	6-4	0.61	6.1	10.54	0.51	3.28	2.79	1.10	4.97	Curb	10	5	0.032	2	0.05	0.02	0.25	0.24	8.96	0.25	9.73	1-3
6-4	6-5	0.36	5.7	10.7	0.51	1.97	0.00	1.97	0.00	Dp-Curb	4	8	Sag	....	0.02	0.02	0.19	n/a	n/a	0.19	9.42	Sag
6-5	6-6	0.44	6.3	10.47	0.51	2.35	0.00	2.35	0.00	Dp-Curb	4	8	Sag	....	0.02	0.02	0.21	n/a	n/a	0.21	10.61	Sag
6-6	6-7	1.19	10.3	9.12	0.51	5.54	0.00	5.54	0.00	Dp-Curb	4	16	Sag	....	0.02	0.02	0.24	n/a	n/a	0.24	11.84	Sag
6-7	6-8	0.39	6.9	10.24	0.51	2.04	0.00	0.56	1.47	Curb	10	5	0.049	2	0.05	0.02	0.17	0.15	4.60	0.17	5.43	2-7
6-8	6-9	0.3	6.8	10.28	0.51	1.57	0.00	0.49	1.08	Curb	10	5	0.049	2	0.05	0.02	0.16	0.14	3.86	0.16	4.76	2-6
7-1	7-2	0	0	0	0.51	0.00	0.00	0.00	0.00	Dp-Curb	4	8	Sag	....	0.02	0.02	0.00	n/a	n/a	0.00	0.00	Sag
7-2	7-3	0.46	9.4	9.39	0.51	2.20	0.00	0.72	1.48	Curb	10	5	0.02	2	0.05	0.02	0.20	0.18	5.77	0.20	6.94	5-2
7-3	7-4	1.28	7.5	10.02	0.51	6.54	0.00	1.27	5.27	Curb	10	5	0.02	2	0.05	0.02	0.28	0.26	10.09	0.28	11.01	5-3
10-1	10-2	0.2	5.2	10.91	0.51	1.11	0.00	1.11	0.00	Dp-Curb	4	4	Sag	....	0.02	0.02	0.20	n/a	n/a	0.20	10.24	Sag

100 YEAR PIPE																						
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Gnd/RimDn (ft)	Gnd/RimUp (ft)
1-1	1-2	173.7	0.39	1.34	0.51	0.20	0.68	9.10	9.10	9.50	6.48	6.48	15.60	9.07	15	3.45	908.00	914.00	908.56	915.03	0.00	919.96
1-2	1-3	42.01	0.95	0.95	0.51	0.48	0.48	5.90	5.90	10.60	5.15	5.15	6.48	5.59	15	0.60	914.25	914.50	915.09	915.42	919.96	919.96
2-1	2-2	185.79	0.27	2.12	0.51	0.14	1.08	6.10	7.20	10.10	10.95	10.95	48.24	9.03	24	2.69	915.00	920.00	915.65	921.19	0.00	950.33
2-2	2-3	154.81	0.19	1.63	0.51	0.10	0.83	5.80	6.80	10.30	8.55	8.55	23.63	6.04	24	0.65	920.50	921.50	921.33	922.54	950.33	927.96
2-3	2-4	34	0.40	1.44	0.51	0.20	0.73	6.40	6.70	10.30	7.58	7.58	16.55	7.40	18	1.47	922.00	922.50	922.71	923.57	927.96	927.96
2-4	2-5	103.46	0.24	1.04	0.51	0.12	0.53	6.30	6.40	10.40	5.52	5.52	16.44	6.67	18	1.45	923.00	924.50	923.60	925.41	927.96	929.45
2-5	2-6	140.4	0.27	0.63	0.51	0.14	0.32	6.10	6.10	10.50	3.39	3.39	14.17	6.97	15	2.85	925.00	929.00	925.42	929.74	929.45	934.63
2-6	2-7	33.91	0.36	0.36	0.51	0.18	0.18	5.70	5.70	10.70	1.97	1.97	10.19	5.06	15	1.47	929.50	930.00	929.87	930.56	934.63	934.63
2-2	3-1	51.92	0.22	0.22	0.51	0.11	0.11	6.40	6.40	10.40	1.17	1.17	27.32	2.43	15	10.59	920.50	926.00	921.19	926.43	950.33	931.17
2-5	4-1	33.91	0.17	0.17	0.51	0.09	0.09	5.80	5.80	10.70	0.92	0.92	10.19	2.82	15	1.47	925.00	925.50	925.41	925.88	929.45	929.45
5-1	5-2	186.29	0.51	3.42	0.51	0.26	1.74	9.70	9.70	9.30	16.23	16.23	54.92	10.93	24	3.49	913.00	919.50	913.75	920.95	0.00	926.29
5-2	5-3	42.04	1.24	2.91	0.51	0.63	1.48	6.30	8.50	9.70	14.37	14.37	18.23	9.92	18	1.78	920.00	920.75	921.00	922.14	926.29	926.29
5-3	5-4	139.01	0.42	1.67	0.51	0.21	0.85	6.10	8.20	9.80	8.34	8.34	26.53	6.77	18	3.78	921.25	926.50	922.14	927.62	926.29	932.00
5-4	5-5	143.57	0.33	1.25	0.51	0.17	0.64	5.50	7.80	9.90	6.31	6.31	11.08	7.62	15	1.74	927.00	929.50	927.68	930.51	932.00	935.00
5-5	5-6	99.32	0.37	0.92	0.51	0.19	0.47	5.40	7.60	10.00	4.68	4.68	14.59	7.48	15	3.02	930.00	933.00	930.51	933.88	935.00	938.00
5-6	5-7	107.14	0.55	0.55	0.51	0.28	0.28	7.30	7.30	10.10	2.83	2.83	9.93	5.58	15	1.40	933.50	935.00	933.96	935.68	938.00	939.00
6-1	6-2	43.5	0.22	3.81	0.51	0.11	1.94	8.40	11.50	8.80	17.06	17.06	31.52	8.52	24	1.15	915.00	915.50	916.05	916.99	0.00	921.50
6-2	6-3	141.49	0.30	3.59	0.51	0.15	1.83	5.80	11.20	8.90	16.23	16.23	24.72	7.52	24	0.71	916.00	917.00	917.18	918.45	921.50	923.02
6-3	6-4	42.71	0.61	3.29	0.51	0.31	1.68	6.10	11.10	8.90	14.91	14.91	31.81	8.18	24	1.17	917.50	918.00	918.46	919.39	923.02	923.25
6-4	6-5	141.49	0.36	2.68	0.51	0.18	1.37	5.70	10.90	9.00	12.25	12.25	17.22	9.00	18	1.59	918.50	920.75	919.43	922.07	923.25	931.83
6-5	6-6	166.41	0.44	2.32	0.51	0.22	1.18	6.30	10.50	9.10	10.73	10.73	11.83	7.19	18	0.75	921.25	922.50	922.37	923.76	931.83	927.50
6-6	6-7	90.69	1.19	1.88	0.51	0.61	0.96	10.30	10.30	9.10	8.75	8.75	40.55	7.93	18	8.82	923.00	931.00	923.76	932.14	927.50	935.50
6-7	6-8	168.83	0.39	0.69	0.51	0.20	0.35	6.90	6.90	10.20	3.60	3.60	17.09	5.11	15	4.15	931.50	938.50	932.14	939.27	935.50	943.59
6-8	6-9	37.45	0.30	0.30	0.51	0.15	0.15	6.80	6.80	10.30	1.57	1.57	13.72	5.44	15	2.67	939.00	940.00	939.29	940.50	943.59	944.27
7-1	7-2	52.31	0.00	1.74	0.51	0.00	0.89	0.00	9.60	9.30	8.27	8.27	11.61	8.69	15	1.91	913.00	914.00	913.78	915.13	0.00	918.00
7-2	7-3	141.5	0.46	1.74	0.51	0.23	0.89	9.40	9.40	9.40	8.34	8.34	20.57	10.34	15	6.01	914.50	923.00	915.13	924.13	918.00	928.12
7-3	7-4	42.01	1.28	1.28	0.51	0.65	0.65	7.50	7.50	10.00	6.54	6.54	9.16	7.08	15	1.19	923.50	924.00	924.28	925.03	928.12	928.12
10-1	10-2	42.56	0.20	0.20	0.51	0.10	0.10	5.20	5.20	10.90	1.11	1.11	9.10	4.08	15	1.17	907.50	908.00	907.80	908.41	0.00	911.00



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Nebraska
Engineering CA2821

Project: Monticello
Monticello
Issue Date:
April 10, 2020

Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

Construction Details
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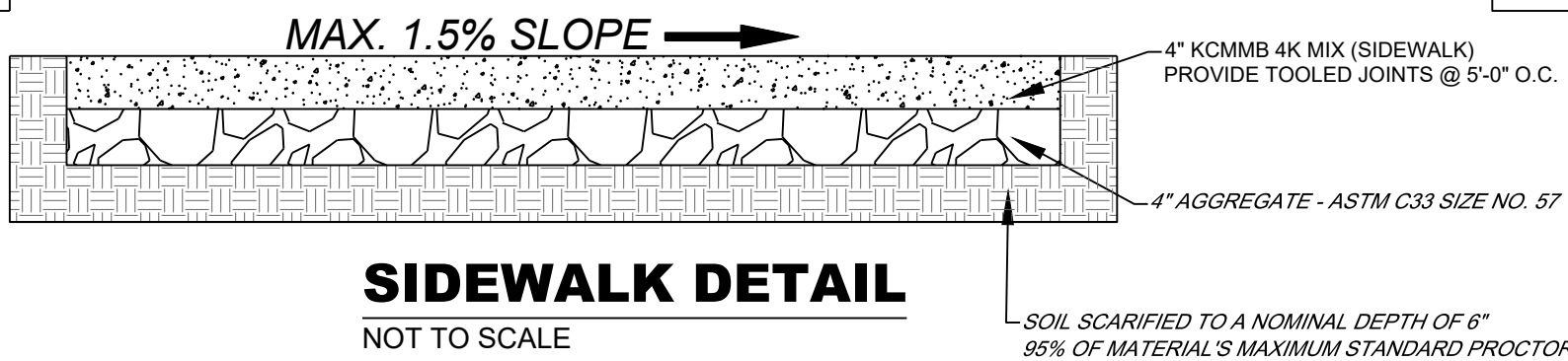
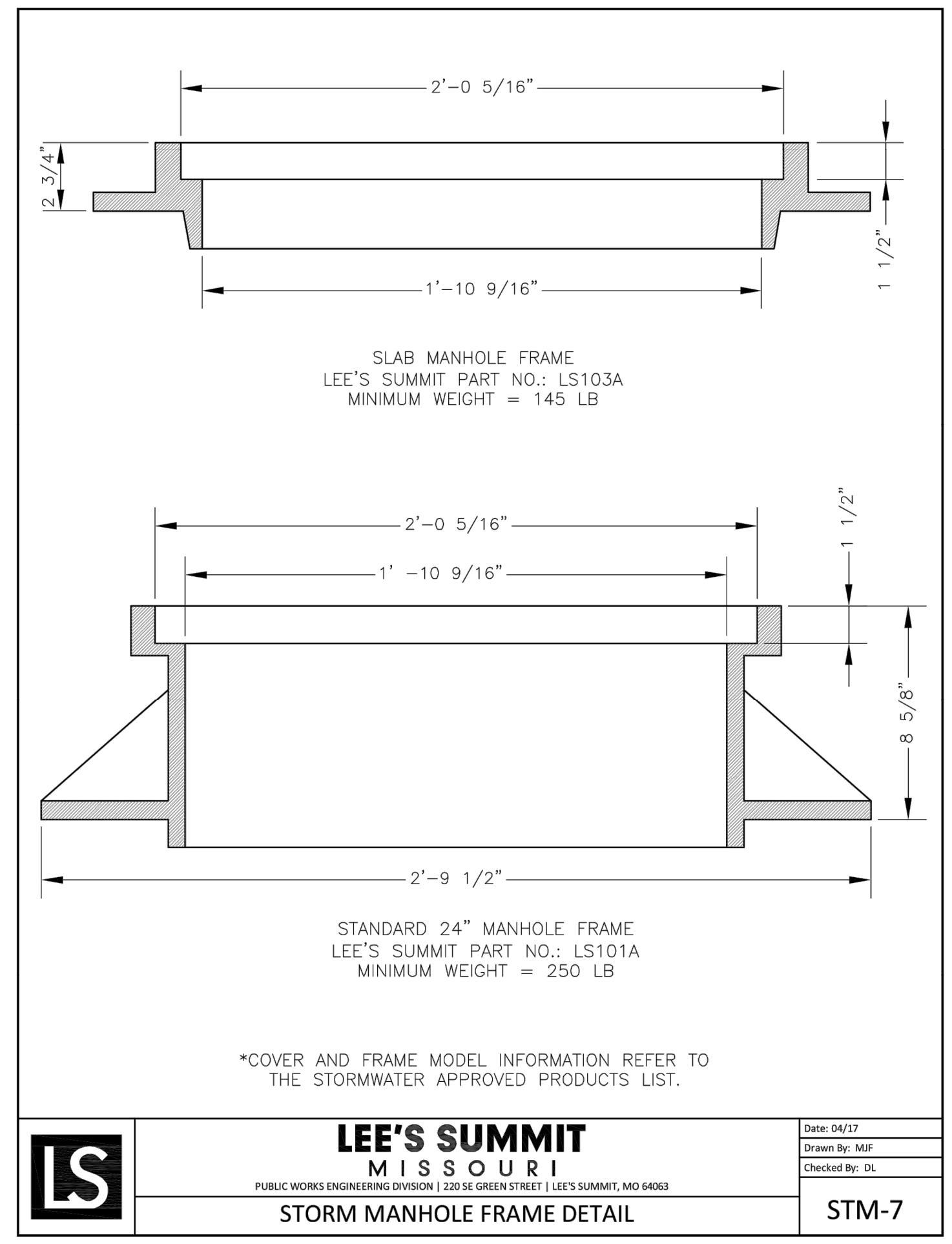
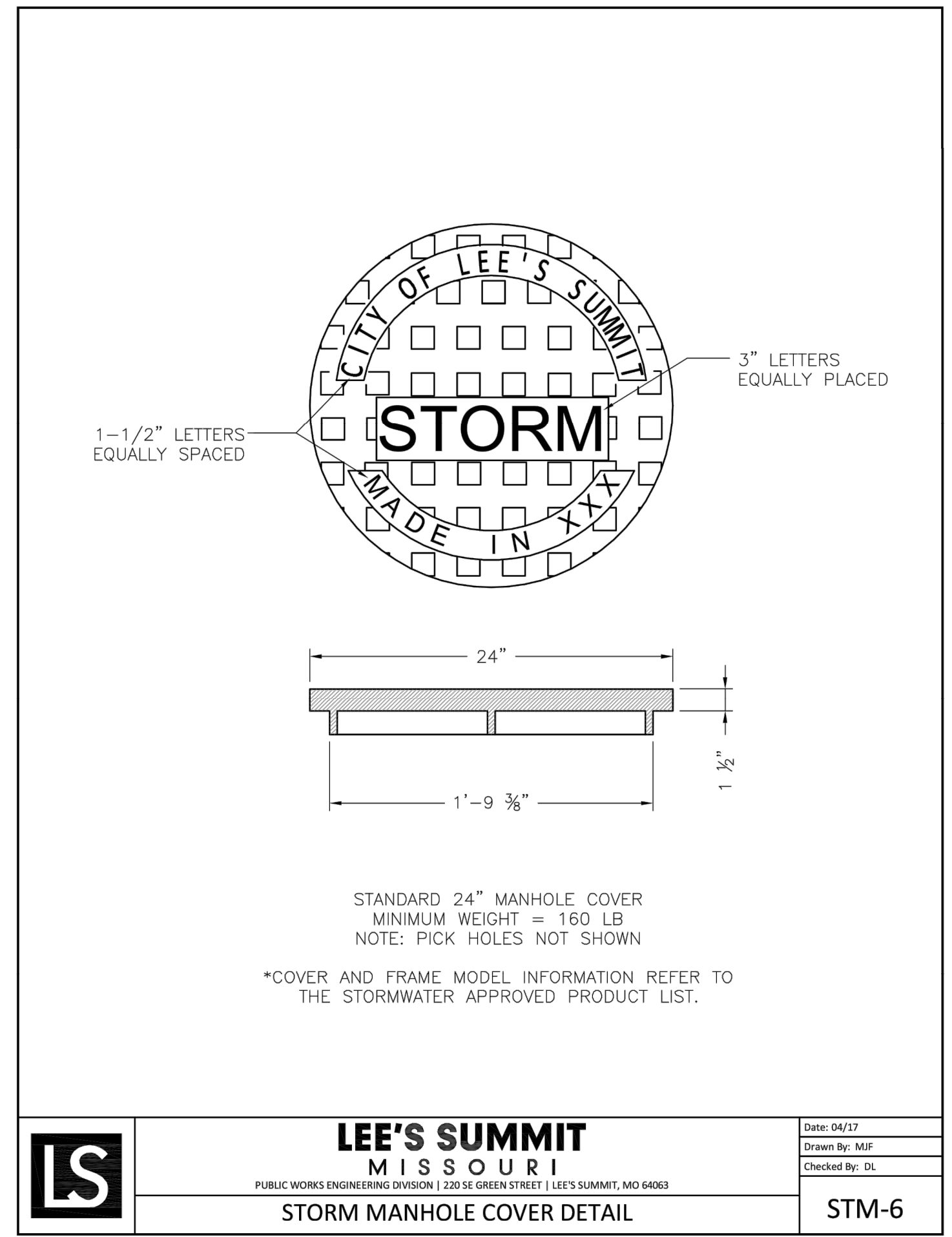
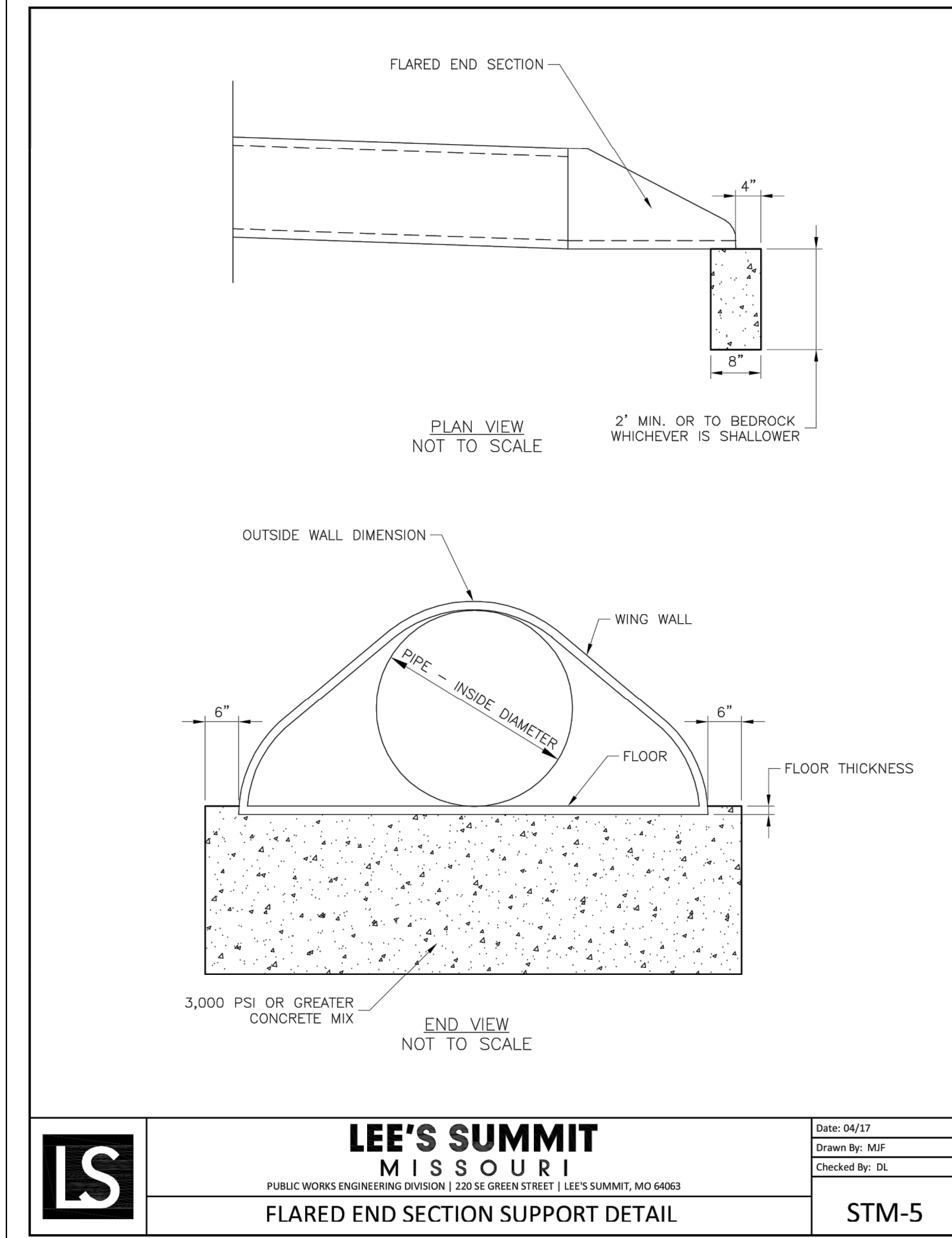
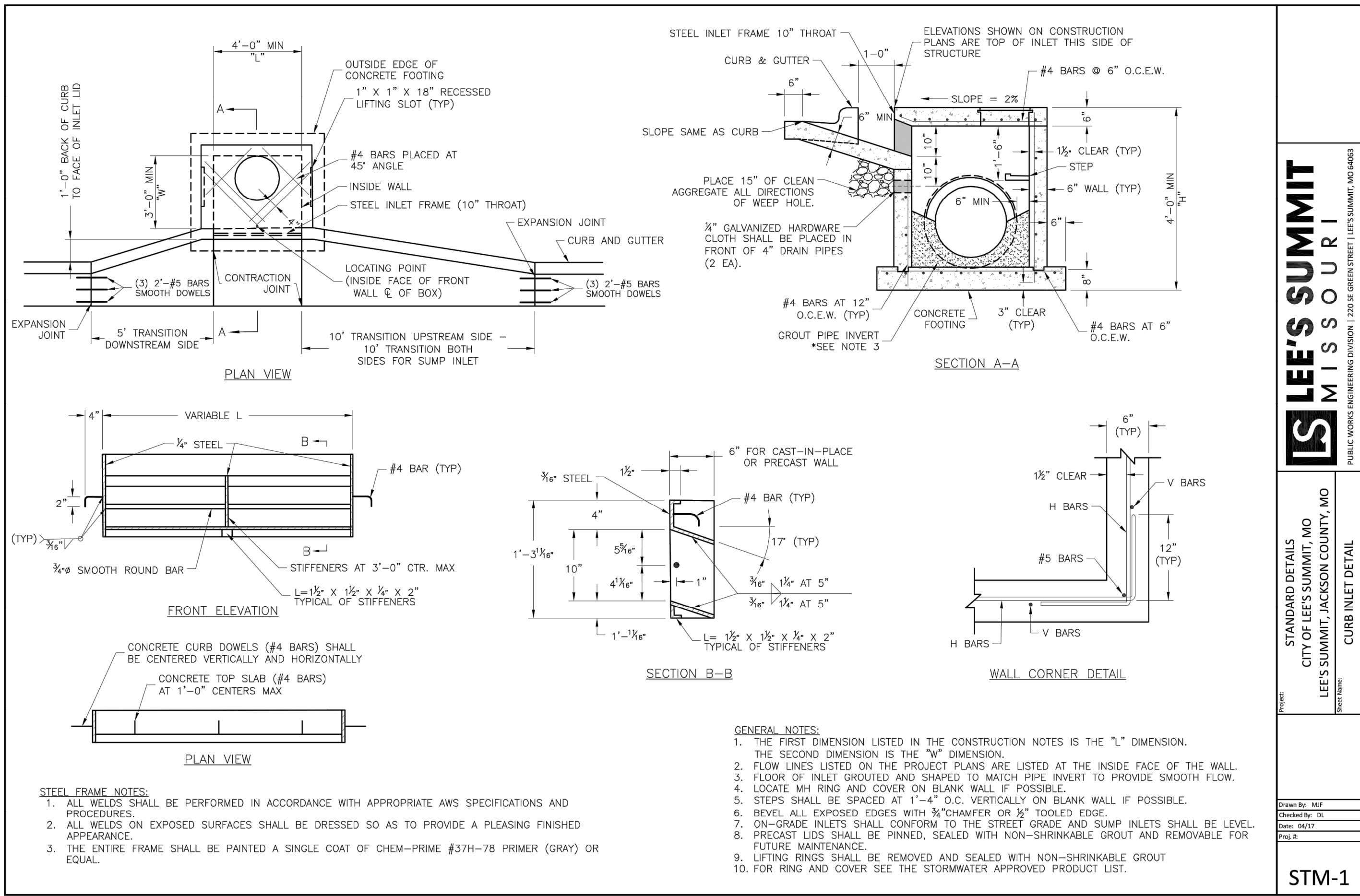
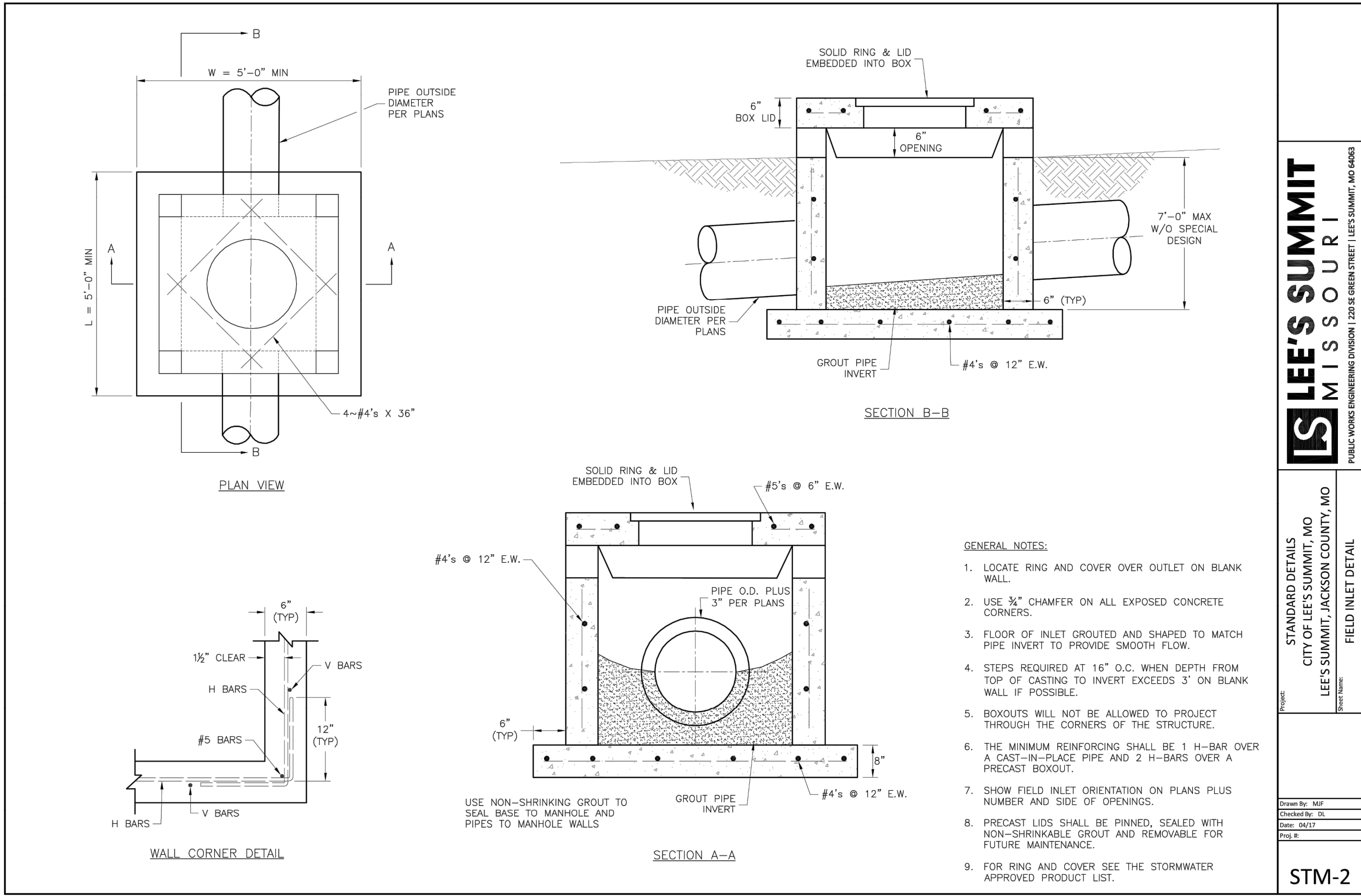
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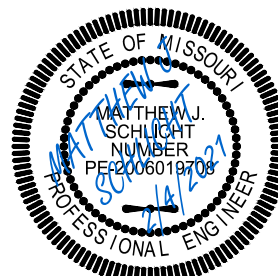
Engineering & Surveying SOLUTIONS
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

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Monticello 4th Plat
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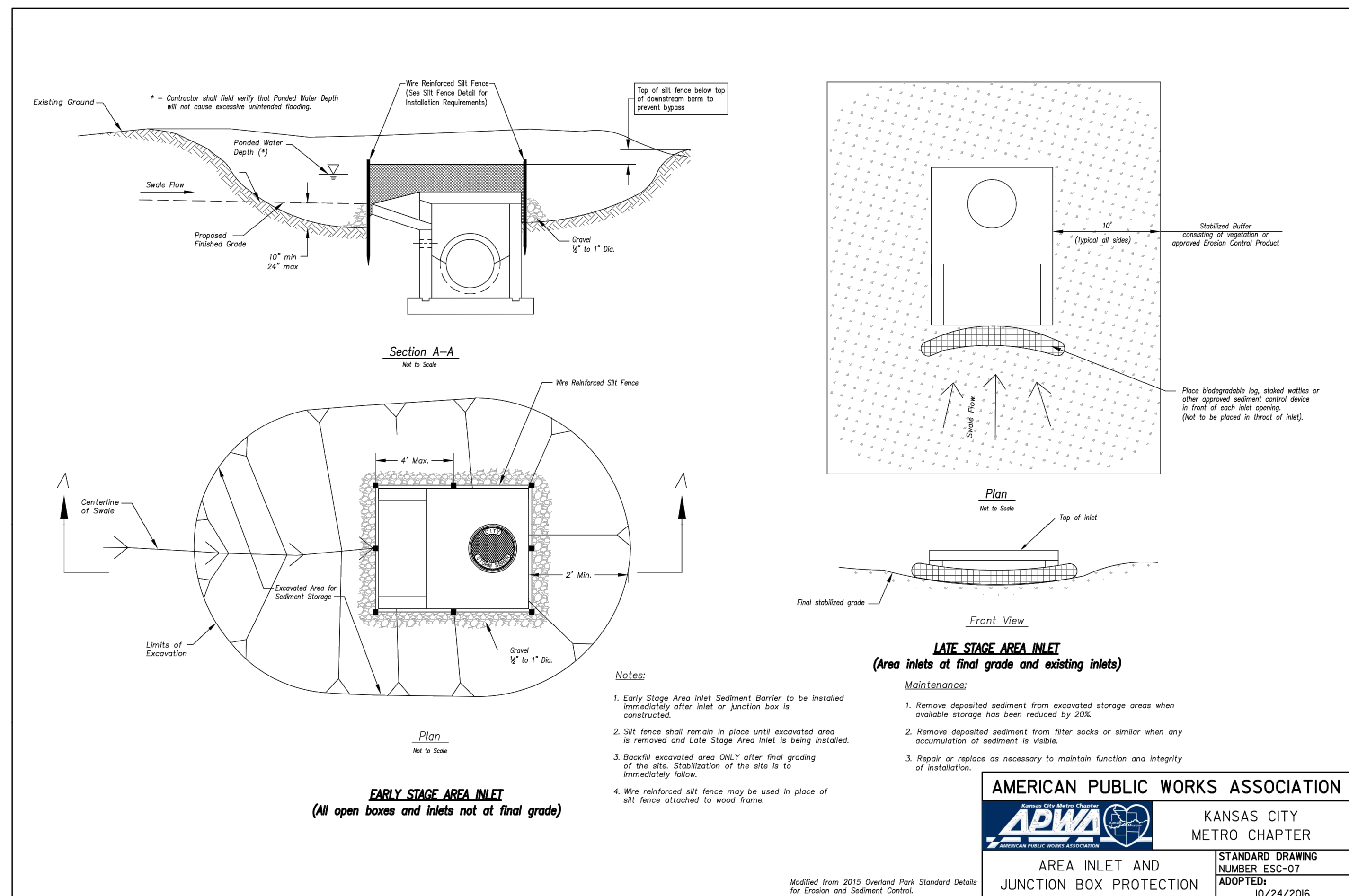
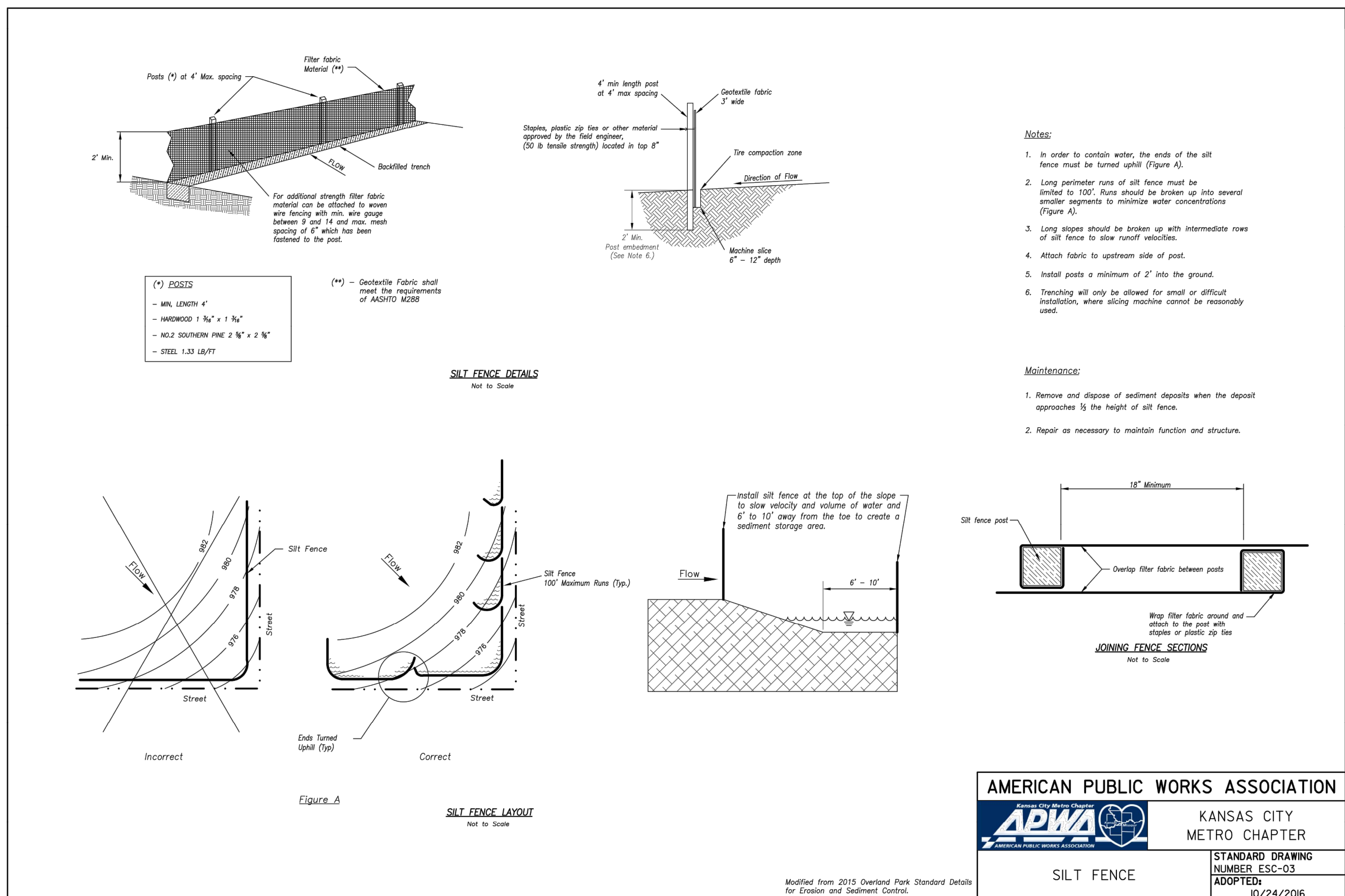
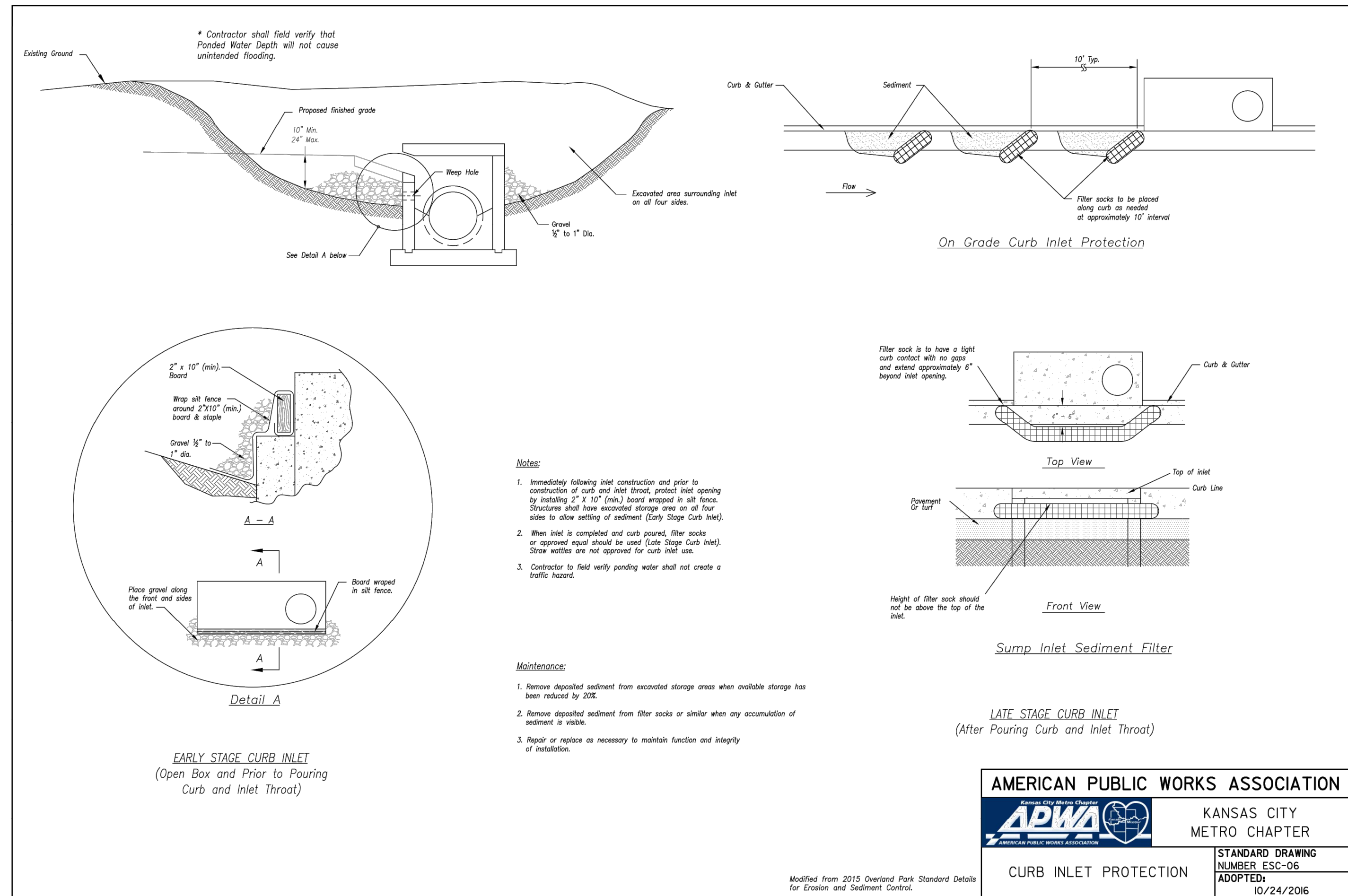
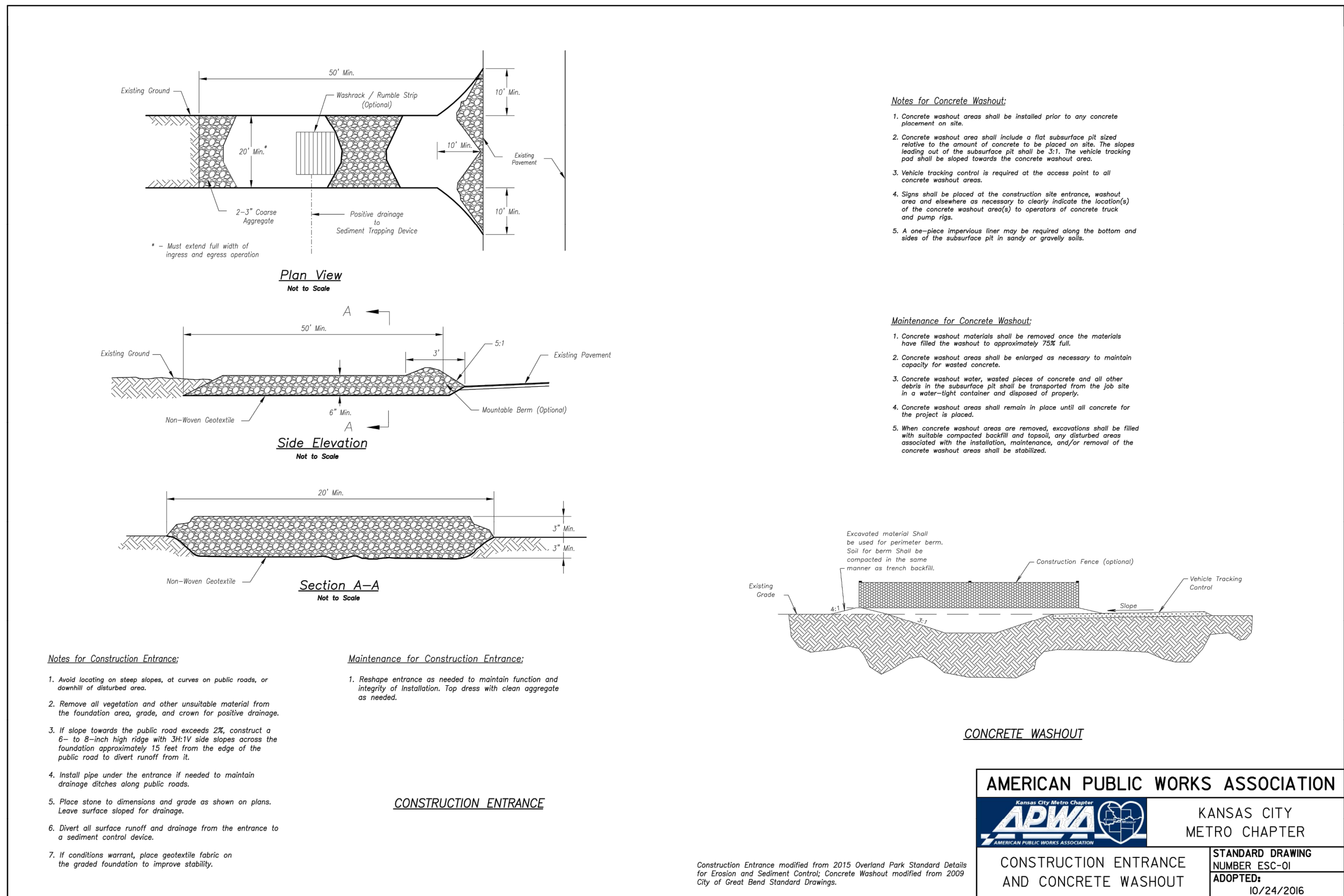
Construction Details
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Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
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REVISIONS

2/4/2021 As-Built



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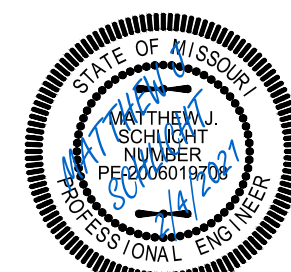
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