

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-2 CURBS WITH PAVEMENT PER TABLE LS-2 OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL

RESIDENTIAL LOCAL STREET SEE BELOW FOR TYPICAL SECTION.

- OPTION 1) 4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
- OPTION 2) 4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

RESIDENTIAL COLLECTOR STREET FOR NE GATEWAY DRIVE AND JAMESTOWN DRIVE SEE BELOW FOR TYPICAL SECTION.

- OPTION 1) 5.5" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 9" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
- OPTION 2) 5.5" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

2 ~ STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL UNLESS OTHERWISE NOTED.

3 ~ JUNCTION BOXES SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING NO. JB-1. FIELD INLETS SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING FI-1. TOEWALLS SHALL BE PER CITY OF LEE'S SUMMIT DRAWING NO. SD-35. STORM MANHOLES SHALL BE PER CITY OF LEE'S SUMMIT DETAIL SD-27. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEE'S SUMMIT.

WATER:

1 ~ THE CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS INSPECTOR PRIOR TO ANY CONNECTIONS TO THE PUBLIC WATER SUPPLY.

2 ~ FIRE HYDRANTS SHALL BE OPTIC YELLOW WATEROUS "PACER" MODEL NO. WB-67-250 WITH NON-RISING STEM OR CITY ENGINEER APPROVED EQUAL. HYDRANTS SHALL HAVE A 5 1/4" VALVE WITH A 4 1/2" PUMPER NOZZLE AND 2 - 2 1/2" HOSE NOZZLES (LEFT HAND OPENING).

3 ~ GATE VALVES SHALL BE MUELLER NO. 2360 Series HUB END "O" RING SEAL NON-RISING STEM. VALVES 12" OR LARGER SHALL BE BUTTERFLY VALVES MANUFACTURED BY THE HENRY PRATT COMPANY OR CITY ENGINEER APPROVED EQUAL. LEFT HAND OPENING. MINIMUM 200# TESTING AWWA.

4 ~ ALL WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 42 INCHES. STREET GRADING SHALL BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION OF WATER MAINS.

5 ~ ALL BENDS, TEES AND FIRE HYDRANTS SHALL BE INSTALLED WITH SUITABLE CONCRETE THRUST BLOCKS POURED IN PLACE AGAINST UNDISTURBED EARTH AND PER CITY OF LEE'S SUMMIT AND APWA STANDARDS.

6 ~ THE MINIMUM SEPARATION BETWEEN THE PROPOSED WATER MAIN AND SANITARY OR STORM SEWERS IS AS FOLLOWS:

A ~ SANITARY SEWERS: HORIZONTAL = 10 FEET - VERTICAL = 18 INCHES

B ~ STORM SEWERS: HORIZONTAL = 10 FEET - VERTICAL = 18 INCHES

THESE SEPARATIONS SHALL PREVAIL OVER ANY DATA SHOWN IN THESE PLANS AND THE CONTRACTOR SHALL INSTALL BENDS OR OTHER FITTINGS AS NECESSARY TO ACHIEVE THE REQUIRED SEPARATIONS.

7 ~ ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813

8 ~ AREAS WHERE PROPOSED PIPE IS AT OR ABOVE EXISTING GRADE, EMBANKMENT SHALL BE PLACED AND COMPACTED PRIOR TO INSTALLING THE PIPE. EMBANKMENT SHALL BE PLACED TO FINISHED GRADE, PRIOR TO TRENCHING FOR PIPE INSTALLATION. FOR PIPES DEEPER THAN 4 FEET FROM FINISHED GRADE, TRENCHING MAY TAKE PLACE WHEN THE EMBANKMENT IS AT LEAST 4 FEET ABOVE THE PROPOSED TOP OF PIPE ELEVATION.

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

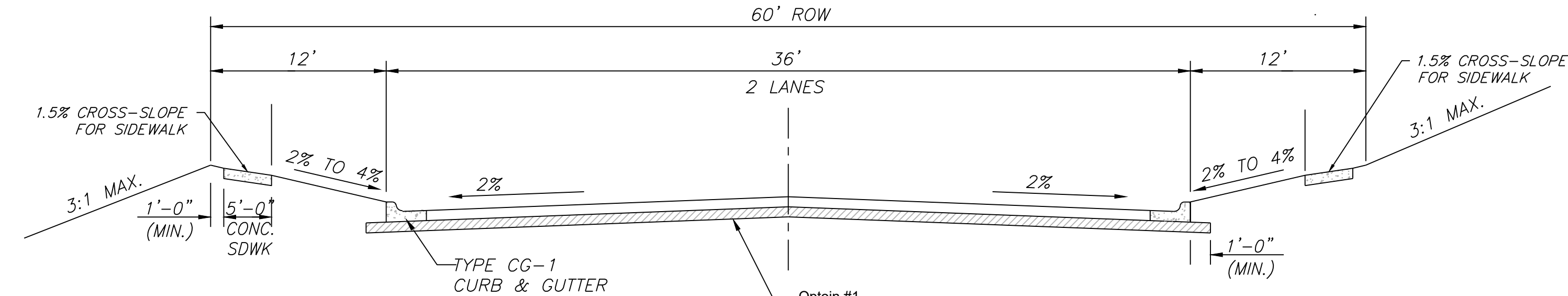
2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.

3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.

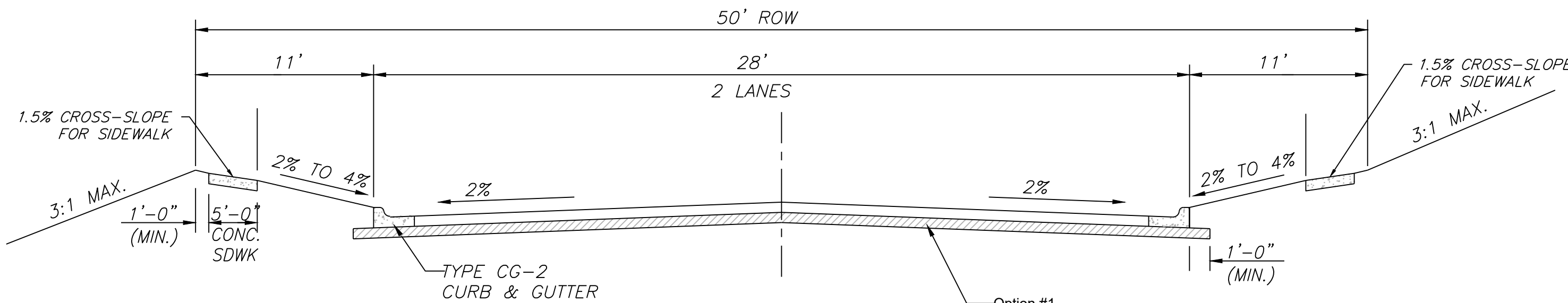
4 ~ THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.

6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.



TYPICAL SECTION FOR
NE JAMESTOWN DR
(COLLECTOR)
N.T.S.



TYPICAL SECTION
(RESIDENTIAL STREET)
N.T.S.

Option #1
4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

Option #2
4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

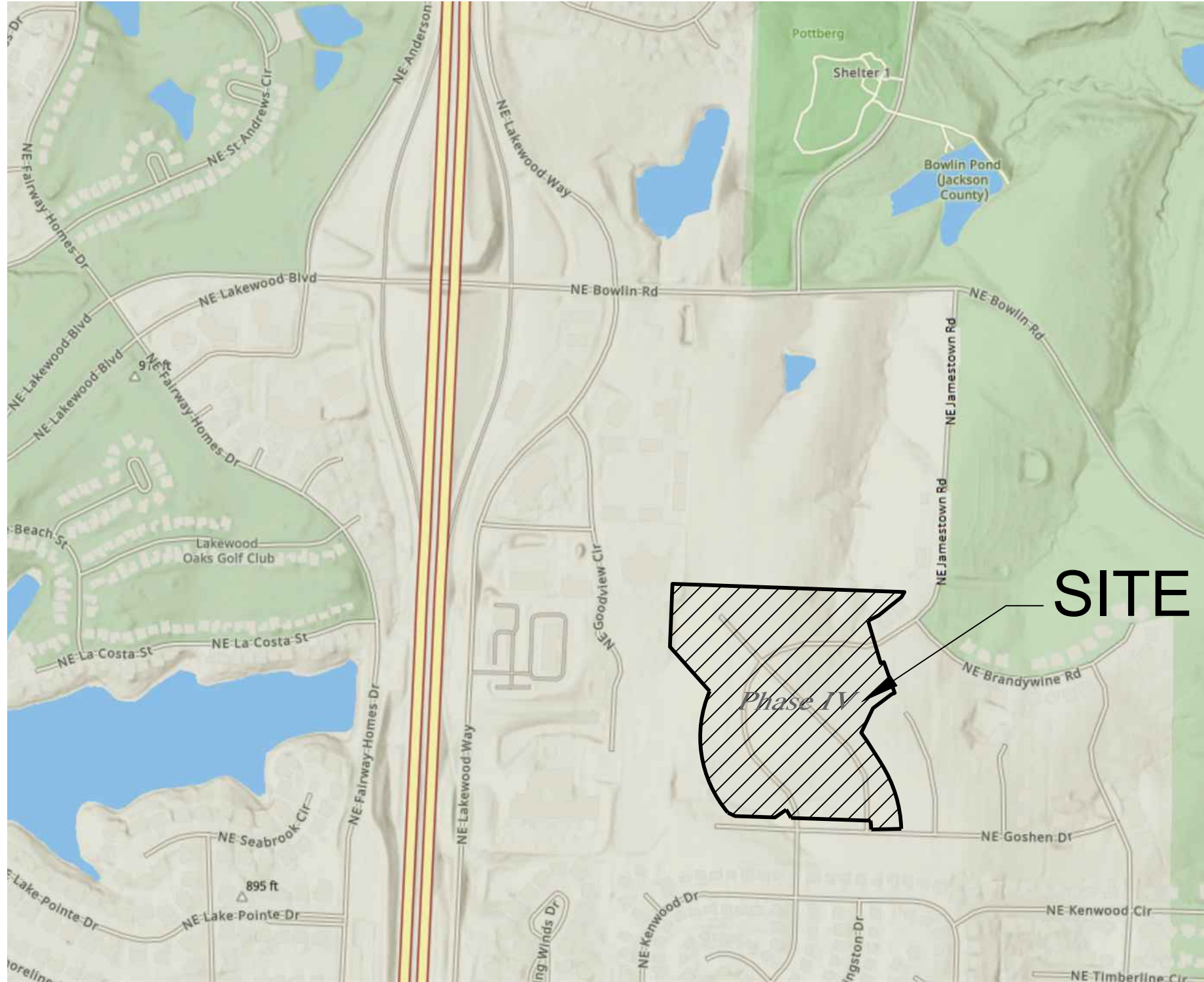
MONTICELLO 4th PLAT

CONSTRUCTION PLANS

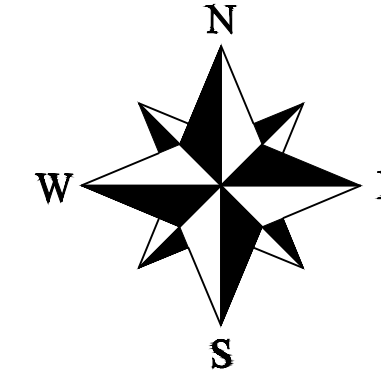
LOTS 109- TRACTS

SECTION 4, TOWNSHIP 48 NORTH, RANGE 31 WEST

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



SITE LOCATION MAP



UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

EVERGY ~ 298-1189
MISSOURI GAS ENERGY ~ 756-8261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

OIL - GAS WELLS

ACCORDING TO EDWARD ALTON MAY JR'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NO OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

FLOOD INFORMATION:

The property is located in Zone "X" areas outside the 100 year flood plain per FEMA Map 29095C0430G, dated January 20, 2017

LEGEND:

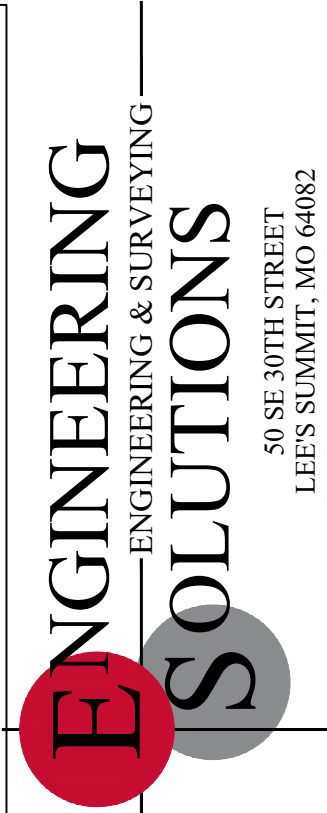
- B/L ~ BUILDING SET-BACK
C/A ~ COMMON AREA
D/E ~ DRAINAGE EASEMENT
FND. ~ FOUND
L/E ~ LANDSCAPE EASEMENT
L.N.A. ~ LIMITS OF NO ACCESS
R/W ~ RIGHT OF WAY
SAN ~ SANITARY SEWER LINE
S/W ~ SIDEWALK
U/E ~ UTILITY EASEMENT
W ~ WATER LINE
ST ~ STORM SEWER LINE

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S.Y.	7,640.09
ADA SIDEWALK RAMP	UNIT	4
5' SIDEWALK	S.F.	17,278.52
GEOGRID	S.Y.	9,171.11
MoDOT Type 5 Base	S.Y.	9,171.11
CURBING	FT	4,601.65
STREET SIGNAGE	UNIT	2
BMP/DETENTION BASIN MATERIAL	S.F.	14,426
BMP/DETENTION BASIN GRADING	S.F.	50,835
CLEARING, GRADING & GRUBBING	LS	1
STORM PIPE		
15" HDPE	FT	1,226.61
18" HDPE	FT	578.80
24" HDPE	FT	782.11
15" RCP	FT	84.02
18" RCP	FT	145.50
24" RCP	FT	42.71
18" HDPE END SECTION / TOE WALL	LS	1
15" HDPE END SECTION / TOE WALL	LS	1
24" HDPE HEAD WALL	LS	1
24" HDPE MITER END	LS	2
5' x 4' STORM CURB INLET	UNIT	18
4' x 4' STORM FIELD INLET	UNIT	9
SILT FENCE	FT	10,143.38
INLET PROTECTION	UNIT	54
SEEDING / MULCHING/ FERTILIZING	LS	1
CONST. ENTRANCE	UNIT	1
RIP RAP W/ FABRIC	UNIT	9

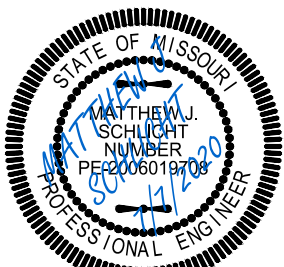


Professional Registration
Missouri
Engineering 200502198-D
Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Monticello
Issue Date:
April 10, 2020

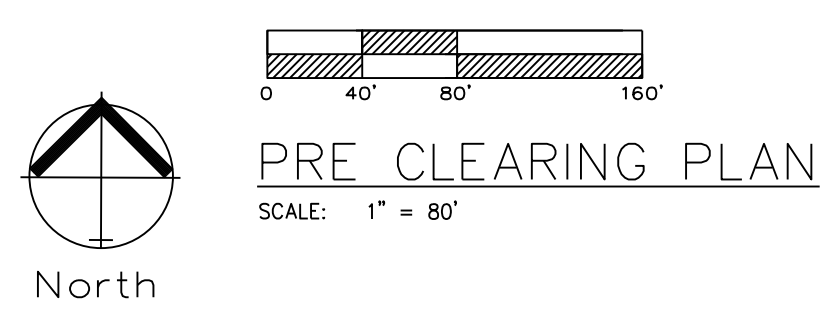
Cover Sheet

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



Matthew J. Schlicht
MO PE 2006019708
KS PE 190071
OK PE 255226

REVISIONS
REV. 5/20/2020
REV. 6/19/2020
REV. 7/7/2020



PRE CLEARING PLAN
SCALE: 1" = 80'

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

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.

ENGINEERING

ENGINEERING & SURVEYING

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LEES SUMMIT, MO 64082
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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 25526

REVISIONS

REV. 5/20/2020

REV. 6/19/2020

REV. 7/7/2020

C.050



040'80'160'

INACTIVE AREA STABELIZATION PLAN W/ PUBLIC IMP.

SCALE: 1" = 80'

North

SF-1

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE

PHASE 2 SILT FENCE

INLET PROTECTION
GUTTER BUDDY OR EQUAL

SF-1

SF-1

SF-2

SF-2

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 SEEDED SHALL CONSIST OF 80% 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 RESEED.

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.

- 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 TRAPS AS EARLY AS POSSIBLE DURING PHASE 2 INITIAL AREA STABILIZATION MASS GRADING AS SHOWN ON PLAN. SEDIMENT BASIN 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 TRAPS SHALL BE CLEANED OUT WHEN THE SEDIMENT CAPACITY HAS BEEN REDUCED BY 20% OF ITS ORIGINAL DESIGN VOLUME. REMOVE SEDIMENT BASINS AND TRAPS DURING PHASE 3 INACTIVE AREA STABILIZATION AS THE FINAL STEP IN MASS GRADING ACTIVITIES. THE SKIMMER 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 THE 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
- B) TROUBLESHOOTING
- 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 OVERSIZERS 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
- C) INSPECTION AND MAINTENANCE
- 1) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
 - 2) RESHAPE 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 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

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Professional Registration
Missouri
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Surveying 200500619-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

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

Project: Monticello
Issue Date: April 10, 2020

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

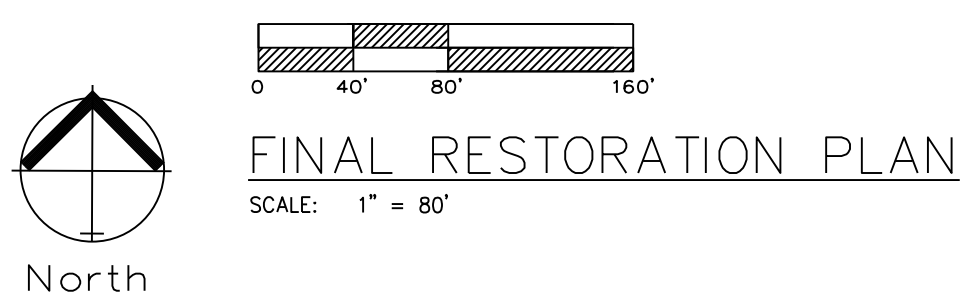
REVISIONS

REV. 5/20/2020

REV. 6/19/2020

REV. 7/7/2020

C.052



SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

- LEGEND**
- PHASE 1 SILT FENCE ——— SF-1 ——— SF-1 ———
- PHASE 2 SILT FENCE ——— SF-2 ——— SF-2 ———
- INLET PROTECTION
GUTTER BUDDY OR EQUAL ———

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.

SEED AND MULCH NOTES:

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix

Seed and Fertilizer Rate:

Mix I - Rye Grass / Blue Grass ——— 100 lbs. per Acre
Mix II - Tall Fescue / Blue Grass ——— 195 lbs. per Acre
Lime ——— 2000 lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer ——— 800 to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:
Lime - 100% of specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided

ONCE SITE IS 90% VEGETATED ALL ESC DEVICES SHALL BE REMOVED AND ANY DISTURBED AREAS SHALL BE RESTORED. ONCE STABILIZATION HAS OCCURRED THROUGHOUT THE SITE REMOVE SKIMMER AND EXCESS SILT FROM DETENTION BASIN AND STABILIZE AFFECTED AREA WITH VEGETATION.

ENGINEERING
ENGINEERING & SURVEYING
SOLUTIONS

Professional Registration
Missouri
Engineering 200502198-D
Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

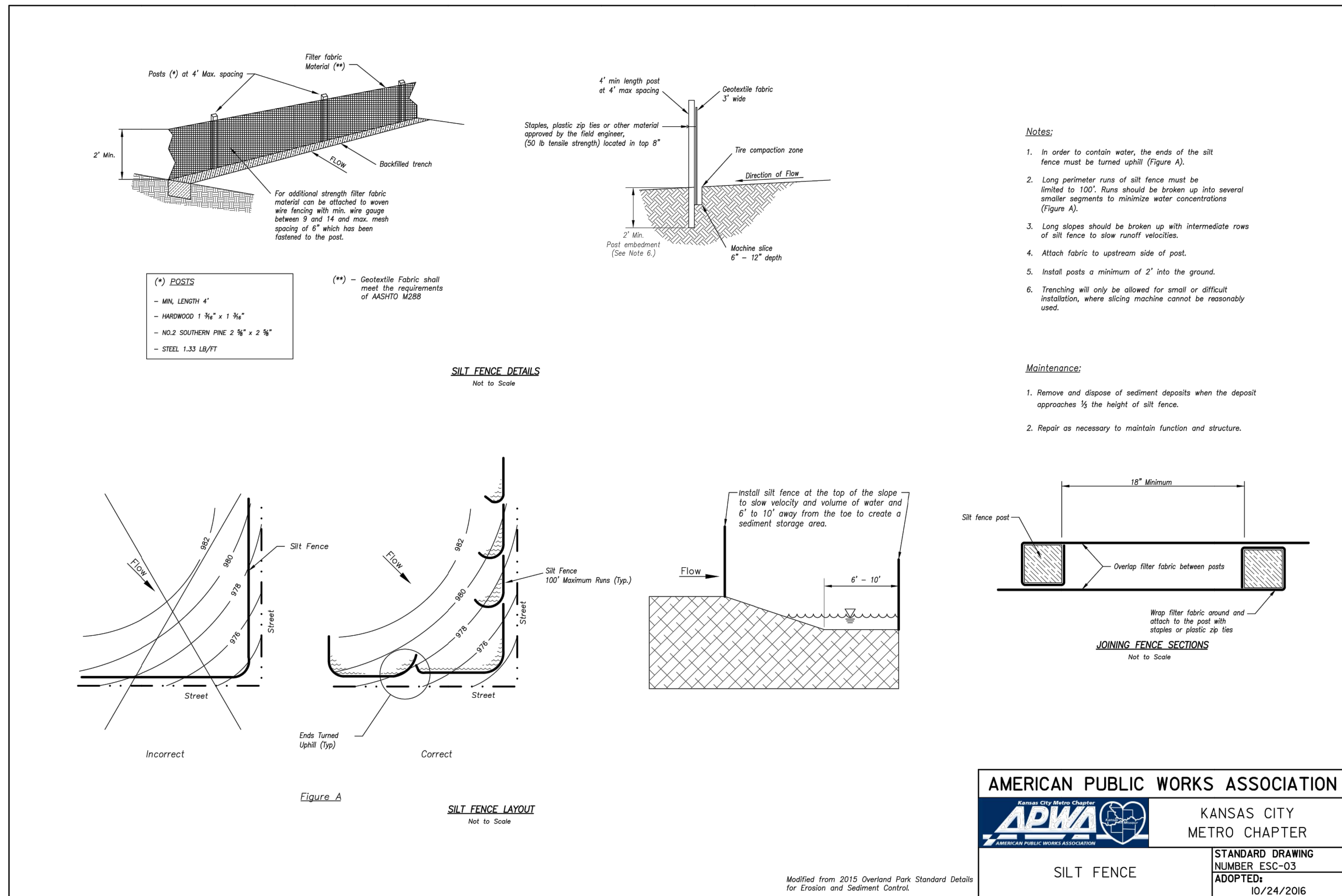
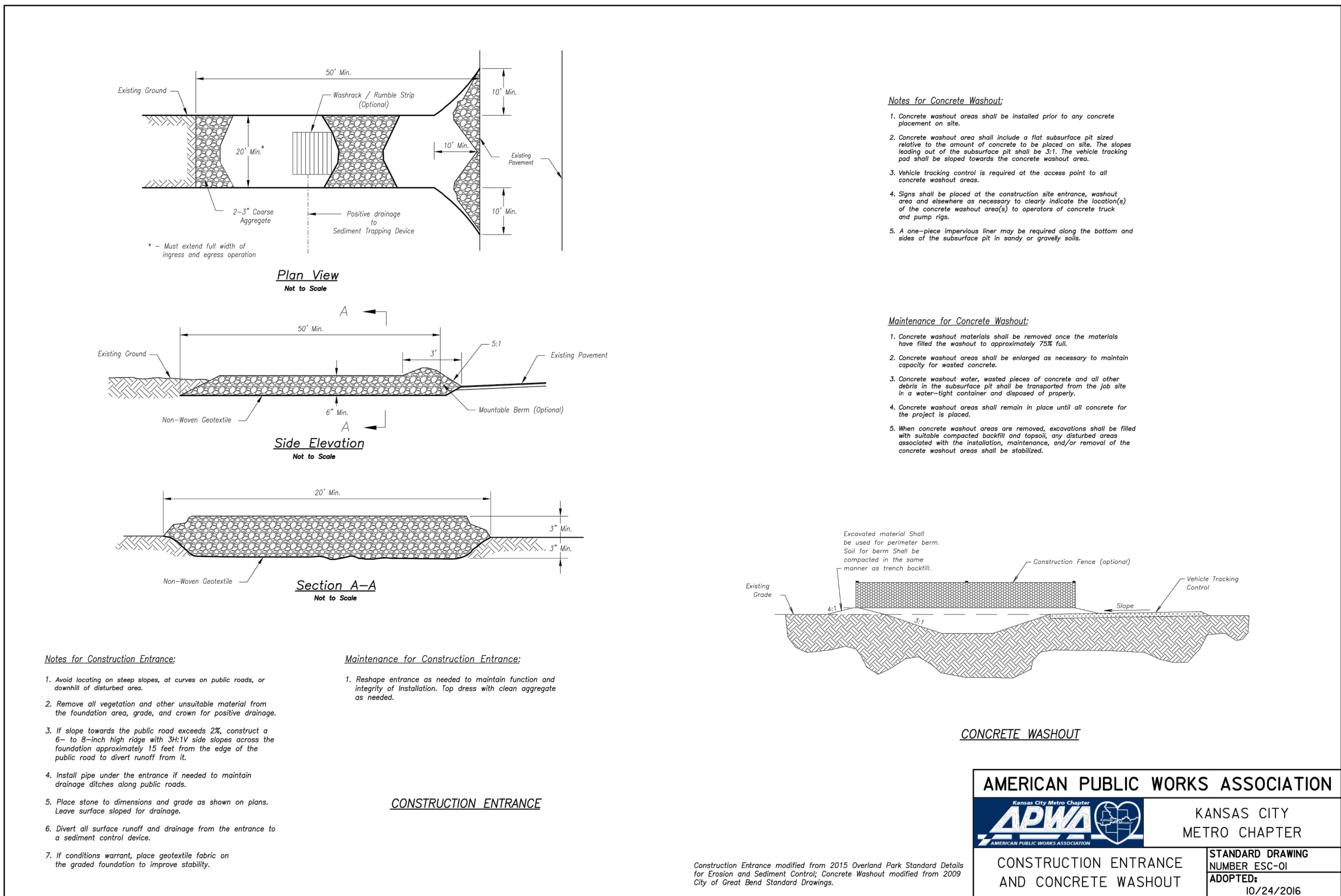
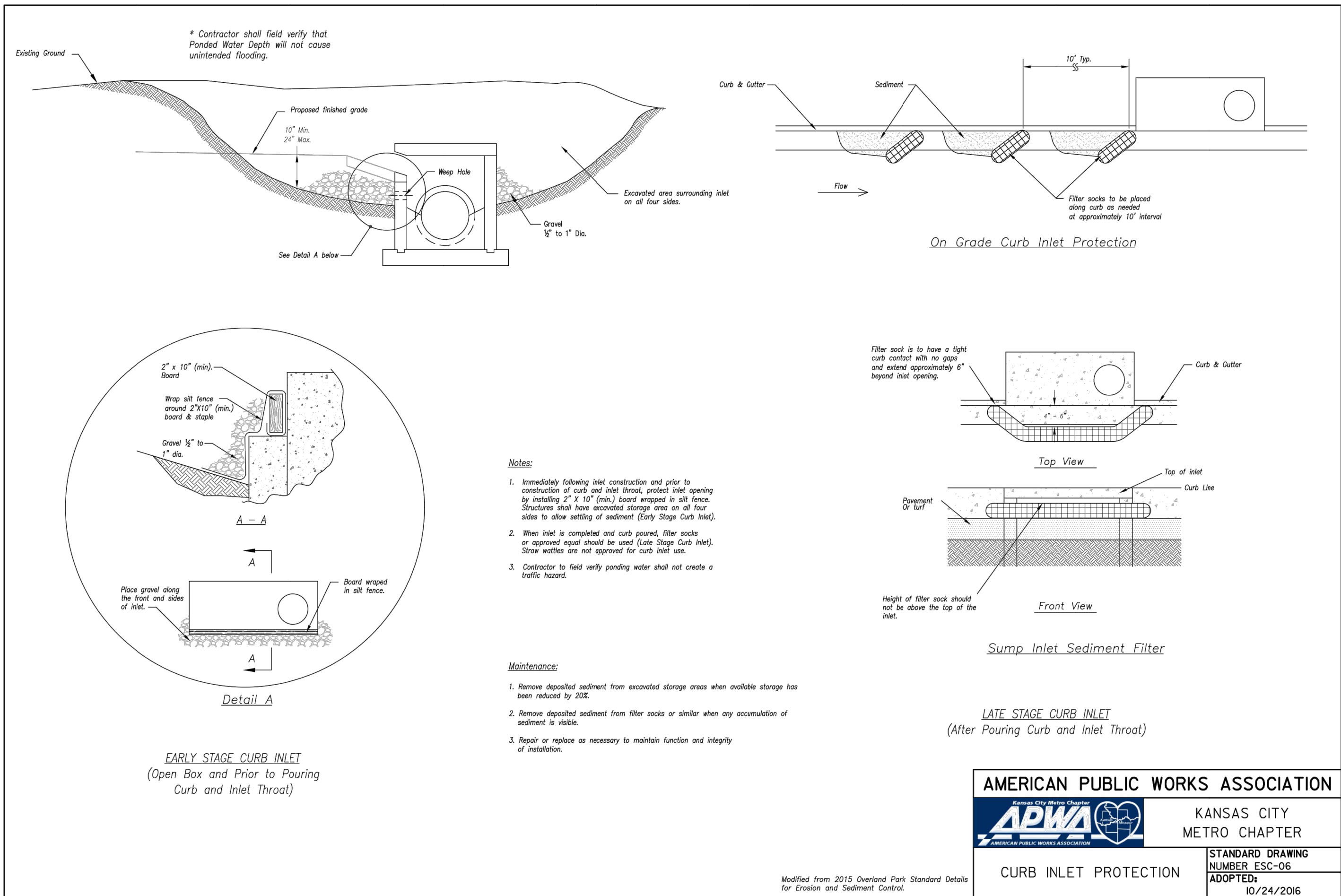
Project:
Monticello
Issue Date:
April 10, 2020

ESC PHASE 4 - Final Restoration 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
REV. 5/20/2020
REV. 6/19/2020
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C.053



Contractor is Responsible to Remove
All Existing Onsite Fence and
Structures and properly dispose of
these items offsite

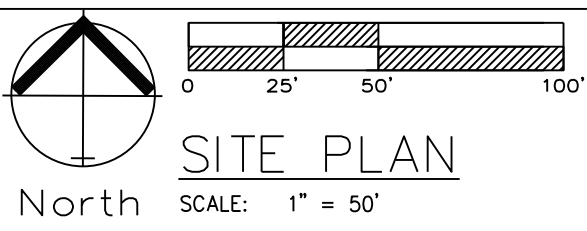
ZONED: CP-2

Woods Chapel United
Methodist Church
4725 NE Lakewood Way

DETENTION BASIN

TRACT

ZONE: CP-2



**ENGINEERING
SOLUTIONS**
—ENGINEERING & SURVEYING—

50 SE 30TH STREET
LEE'S SUMMIT, MO 64082

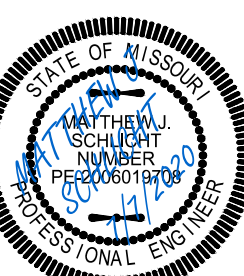
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

Project: Monticello

Issue Date: April 10, 2023

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



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MO PE 2006019708
KS PE 19071
OK PE 25226

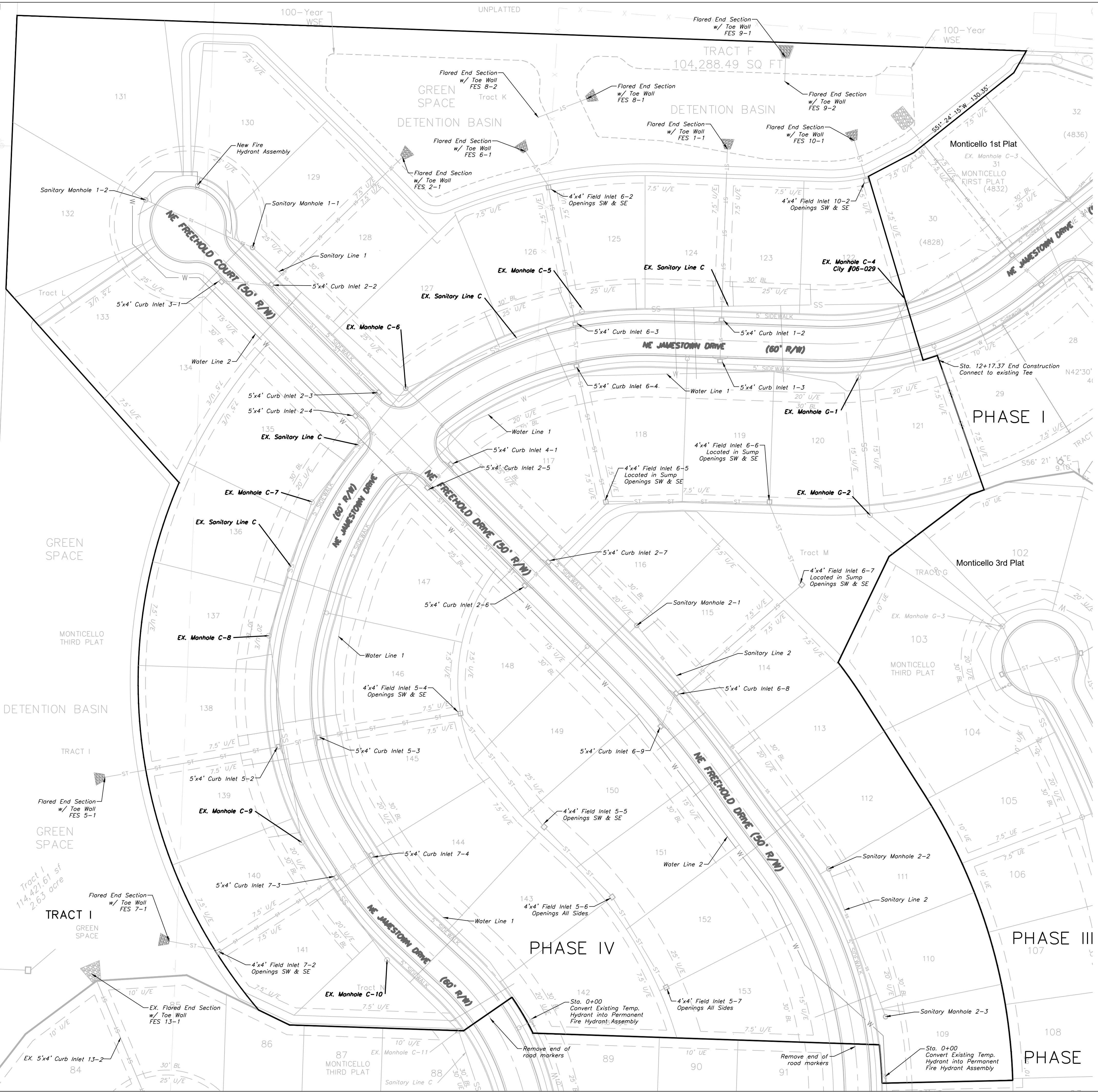
REVISION

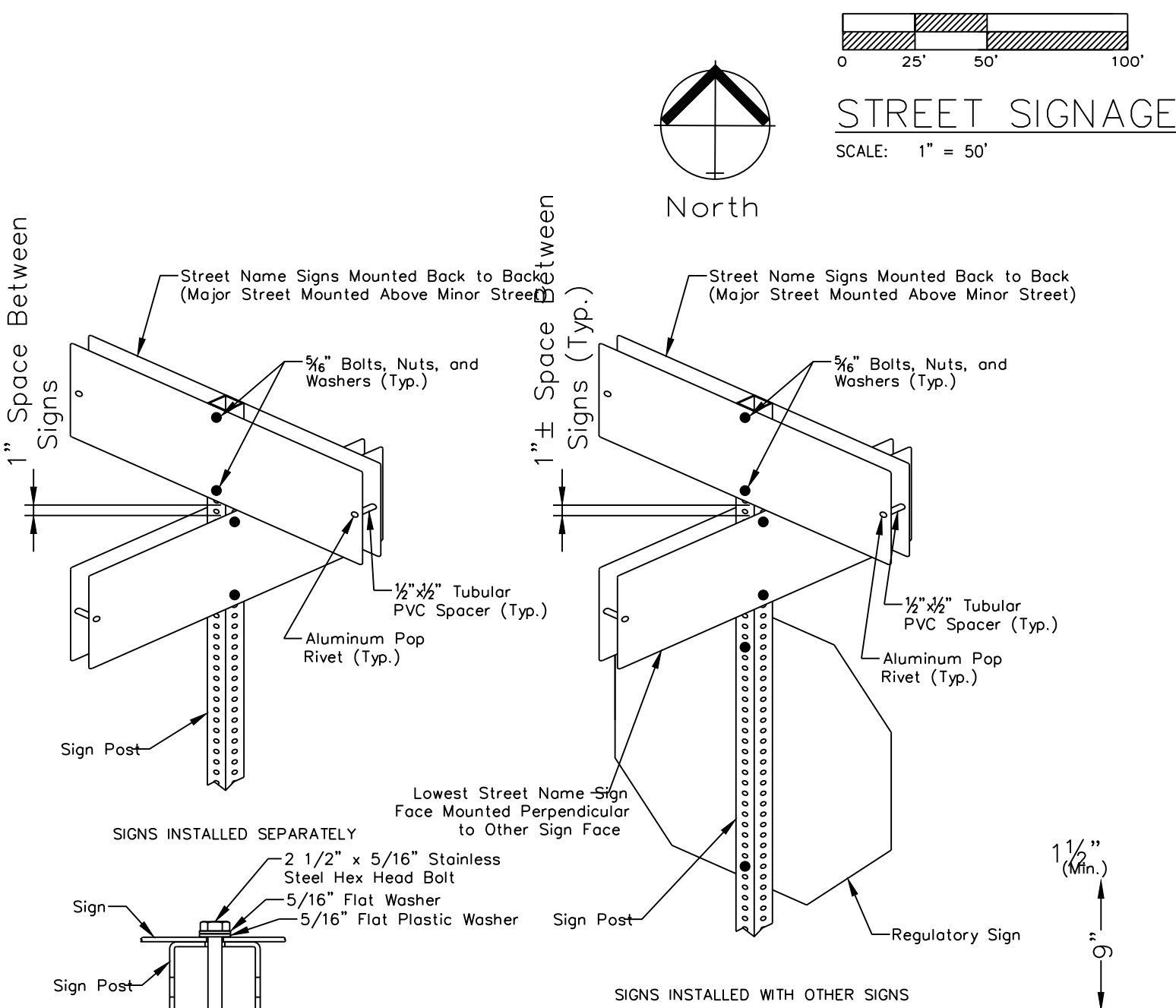
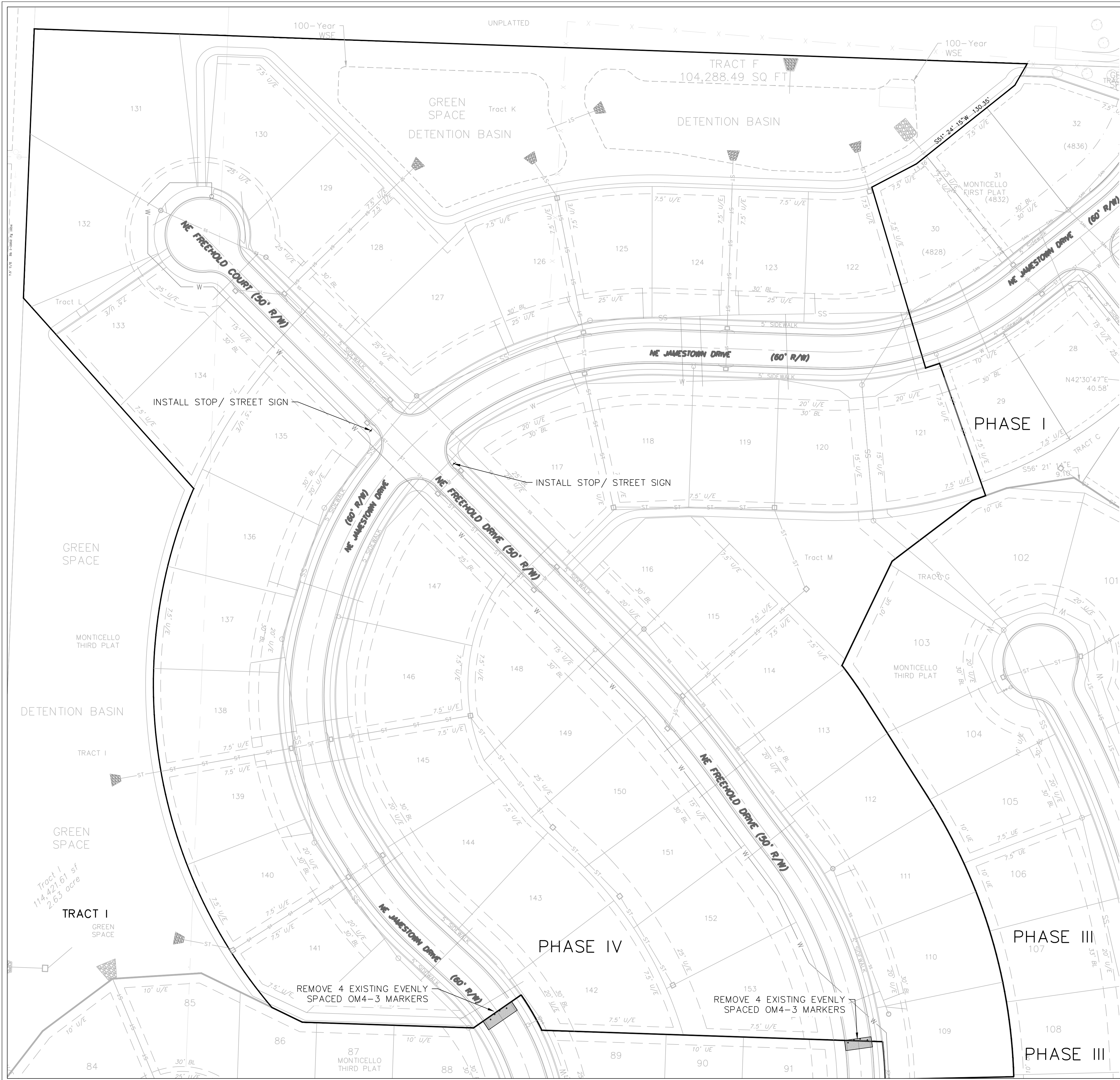
REV. 5/20/2020

REV. 6/19/2020

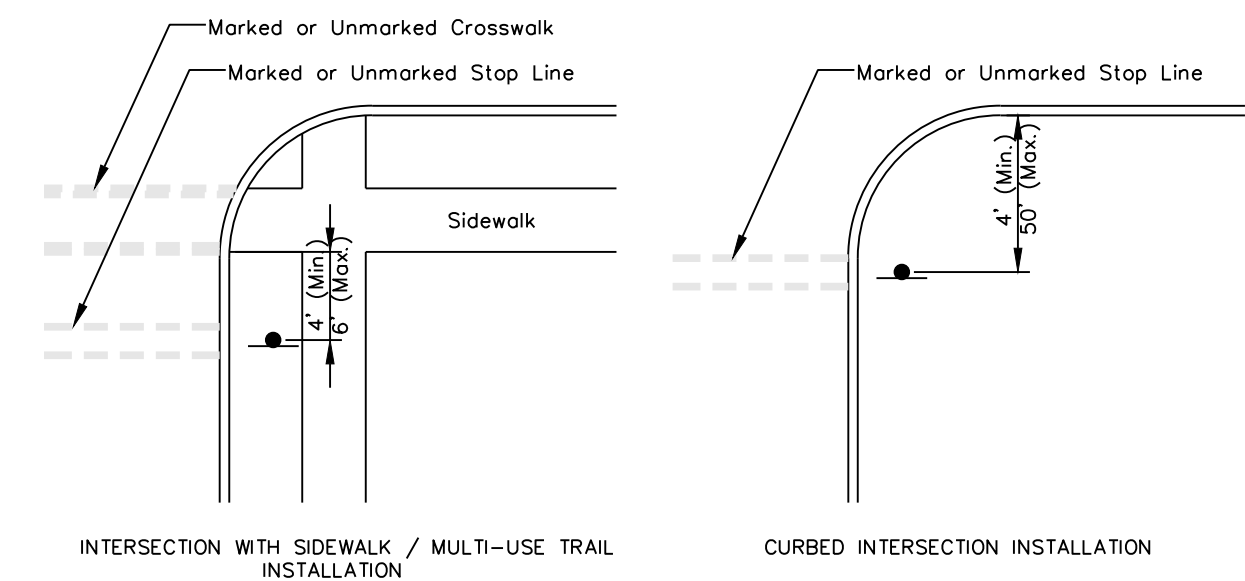
REV. 7/7/2020

C.100

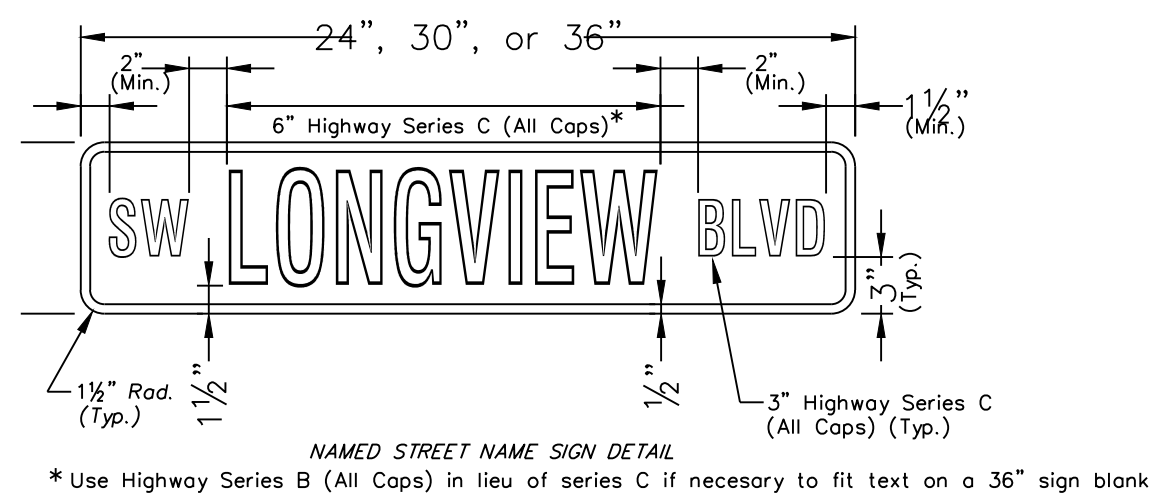




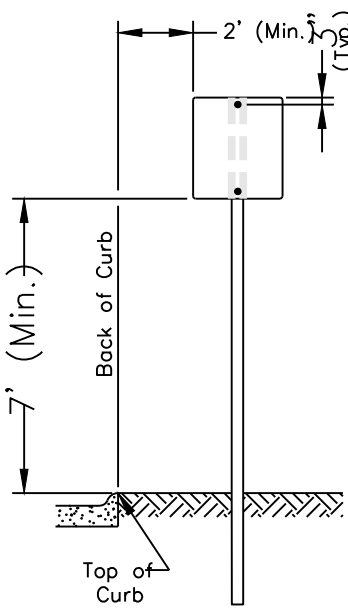
SQUARE STEEL POST MOUNTING DETAILS



CONTROL SIGN LOCATION

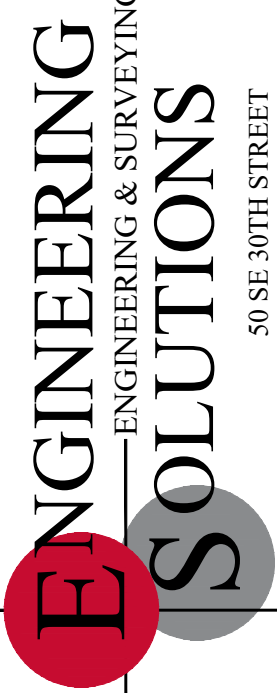


* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



SIGN MOUNTING DETAILS

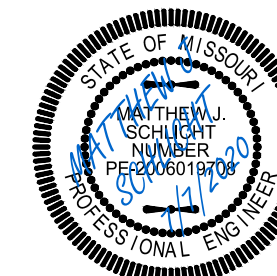
* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.



Professional Registration
Missouri
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Surveying 200500019-D
Kansas
Engineering E-1895
Surveying LS-219
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

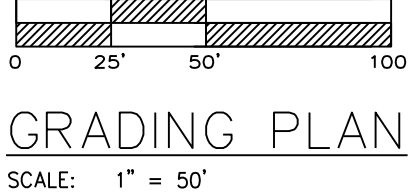
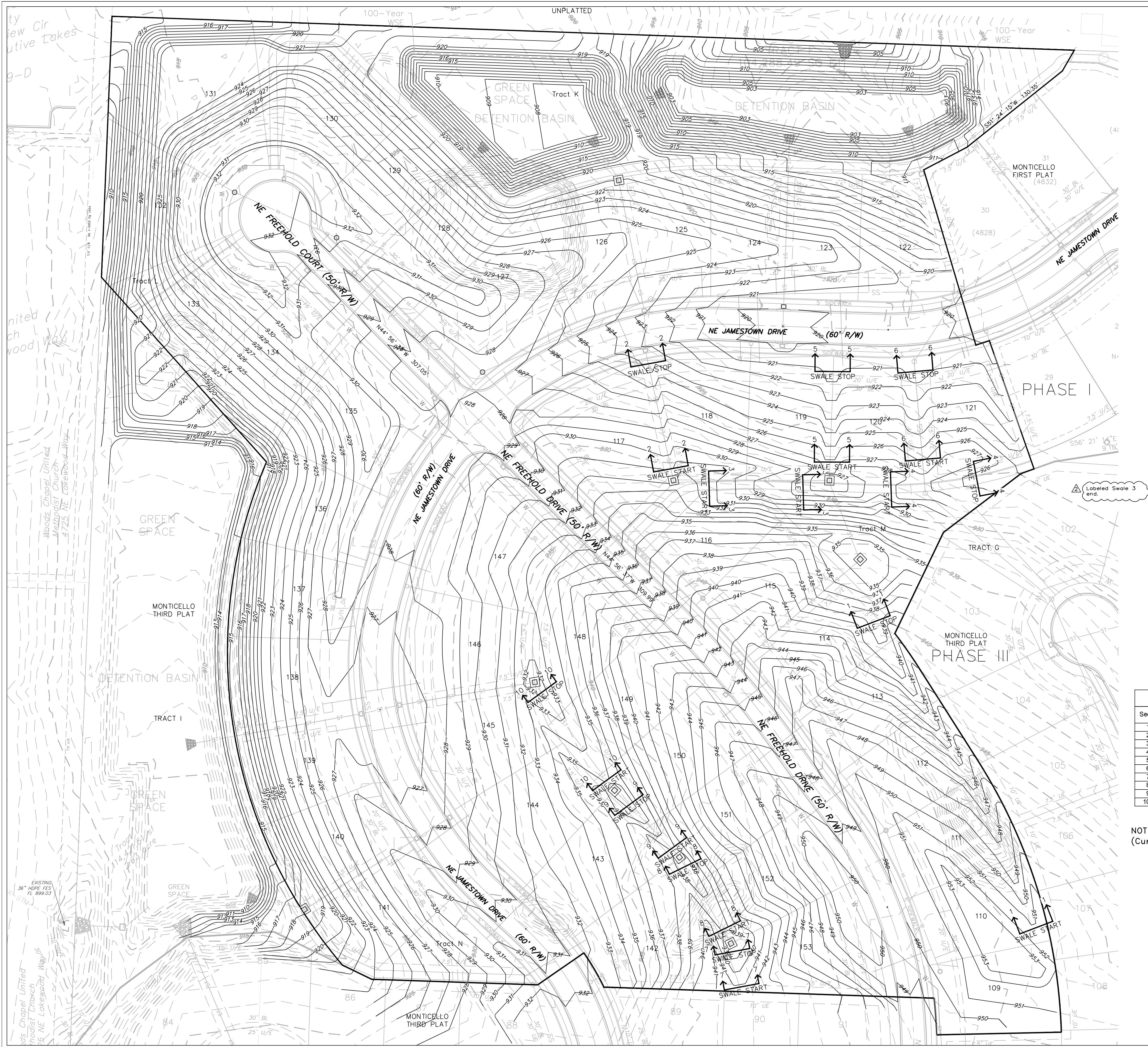
Project: Monticello
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri
Issue Date: April 10, 2020

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



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KS PE 19071
OK PE 25526

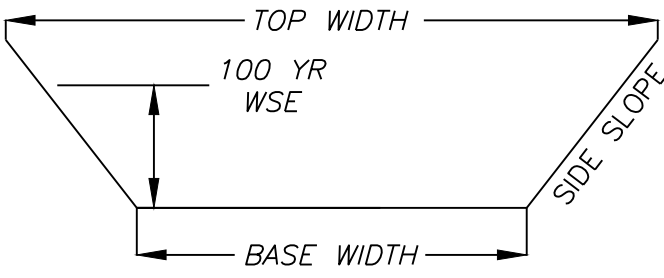
REVISIONS	
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REV. 6/19/2020	
REV. 7/7/2020	



Estimated Cut / Fill Quantities	
Site Area	16.6 Acres
Cut Volume (Unadjusted)	371,599 c.y.
Fill Volume (Unadjusted)	279,415 c.y.
Street & Sidewalk Cut Volume	2,353 c.y.
Net Fill	94,537 c.y. (Unadjusted)(Cut)

Notes

1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and sediment control measures need to be implemented prior to construction
5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
7. Contractor responsible for all density testing of roadway subgrade and granular base.



TYPICAL CHANNEL SECTION
SWALE DETAIL
Not To Scale

NOTE: Swale sections extend the entire length between upstream and downstream structures with the exception of a transition at each structure.

100 YEAR OVERFLOW SWALE SECTIONS									
Section	100 Yr. Runoff (c.f.s.)	Bed Slope (%)	Base Width (ft)	Side Slope (1:V)	100 Yr WSE (ft)	Sectional Area	Velocity (f.p.s.)	100Yr. Hydraulic Radius (ft)	Shear Stress (p.s.f.)
1-1	6.43	3.53	5	6	0.29	2.00	3.40	0.24	0.52
2-2	3.83	6.07	8	5	0.14	1.20	3.19	0.13	0.48
3-3	2.73	3.80	8	5	0.13	1.10	2.48	0.12	0.28
4-4	1.67	2.29	8	5	0.11	0.90	1.86	0.10	0.14
5-5	4.01	6.02	8	5	0.15	1.30	3.08	0.14	0.51
6-6	3.85	6.02	8	5	0.14	1.20	3.21	0.13	0.48
7-7	3.32	6.50	6	7	0.15	1.10	3.02	0.14	0.55
8-8	2.41	2.35	6	7	0.16	1.14	2.11	0.14	0.20
9-9	2.16	4.95	6	4	0.16	1.06	2.04	0.15	0.45
10-10	2.62	3.70	6	14	0.15	1.22	2.15	0.12	0.28

NOTE: Swale should be lined with "Straw with Net" turf reinforcement (Curlex Blanket or Eqv.). Per Table 5607-1 in APWA Manual



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Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

Project:
Monticello
Issue Date:
April 10, 2020

Master Drainage Plan 1 of 3:
Grading Plan - SWPPP

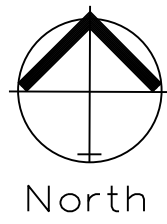
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



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

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- REV. 5/20/2020
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SPOT ELEVATIONS

Lot Number	Basement	MBOE	
		Right	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	934.90
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 Asterik shall meet "As-Graded Plot Plan" Requirements.*



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Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Monticello
Nebraska
April 10, 2020

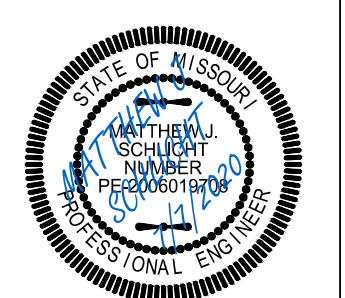
Master Drainage Map 3 of 3:
Drainage Area Map

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

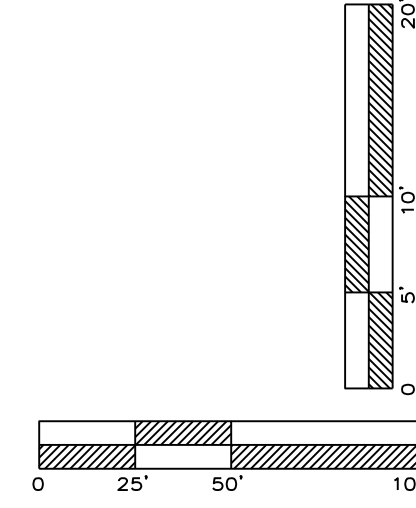
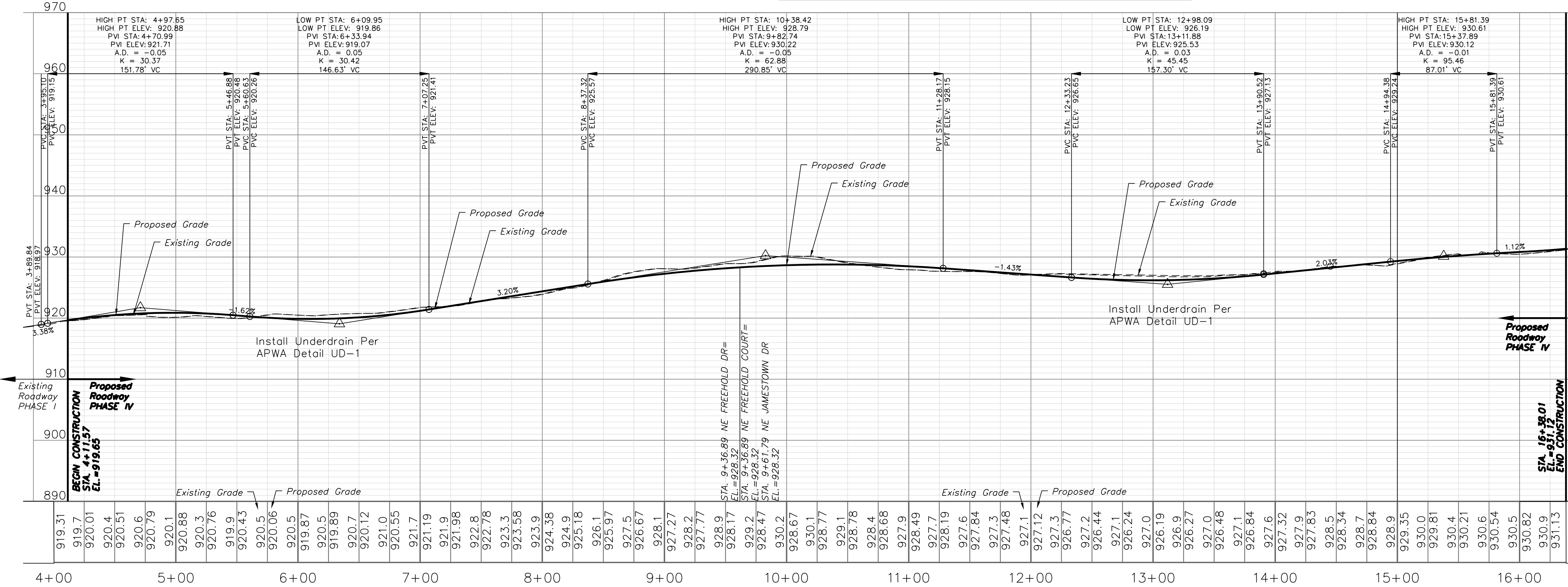
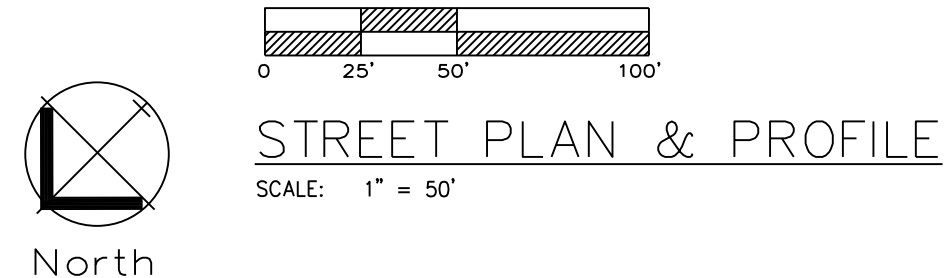
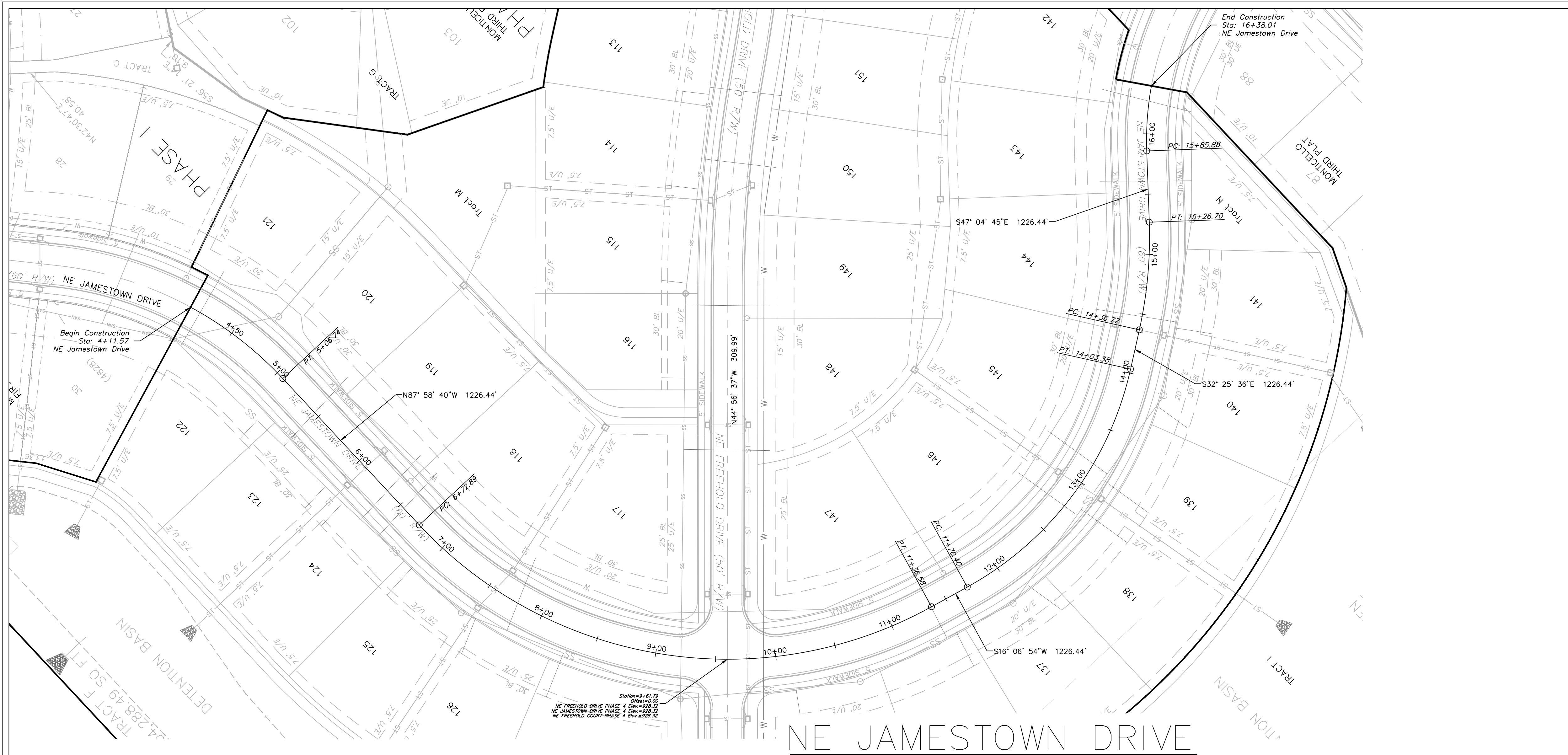
Matthew J. Schlicht
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KS PE 19071
OK PE 255226

REVISIONS

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REV. 6/19/2020
REV. 7/7/2020



C. 202



ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
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Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005000519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

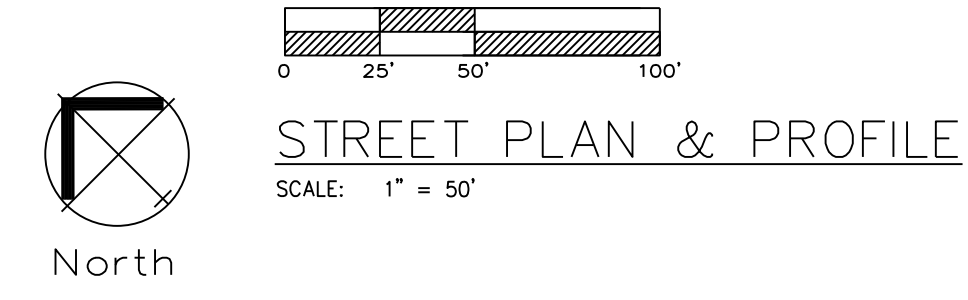
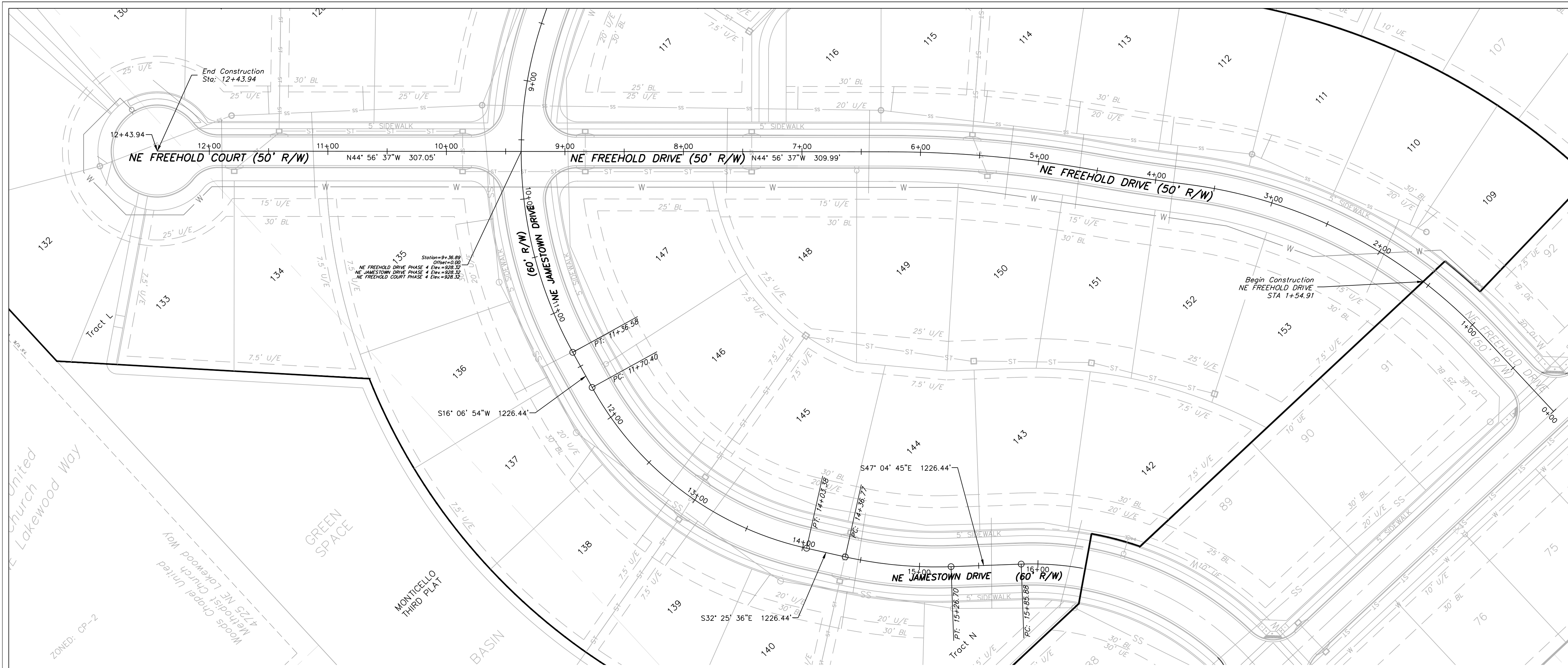
Project:
Monticello
Issue Date:
April 10, 2020

Street 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 25226

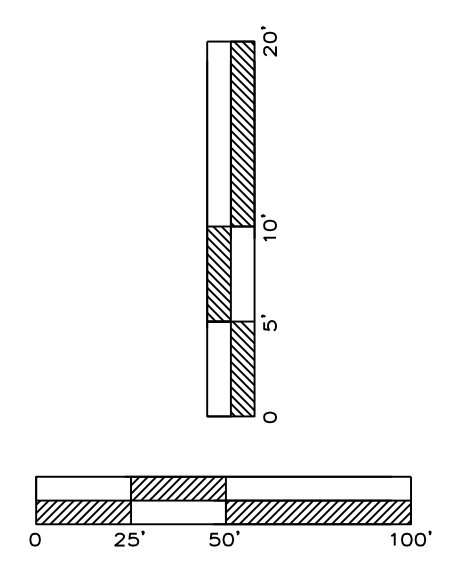
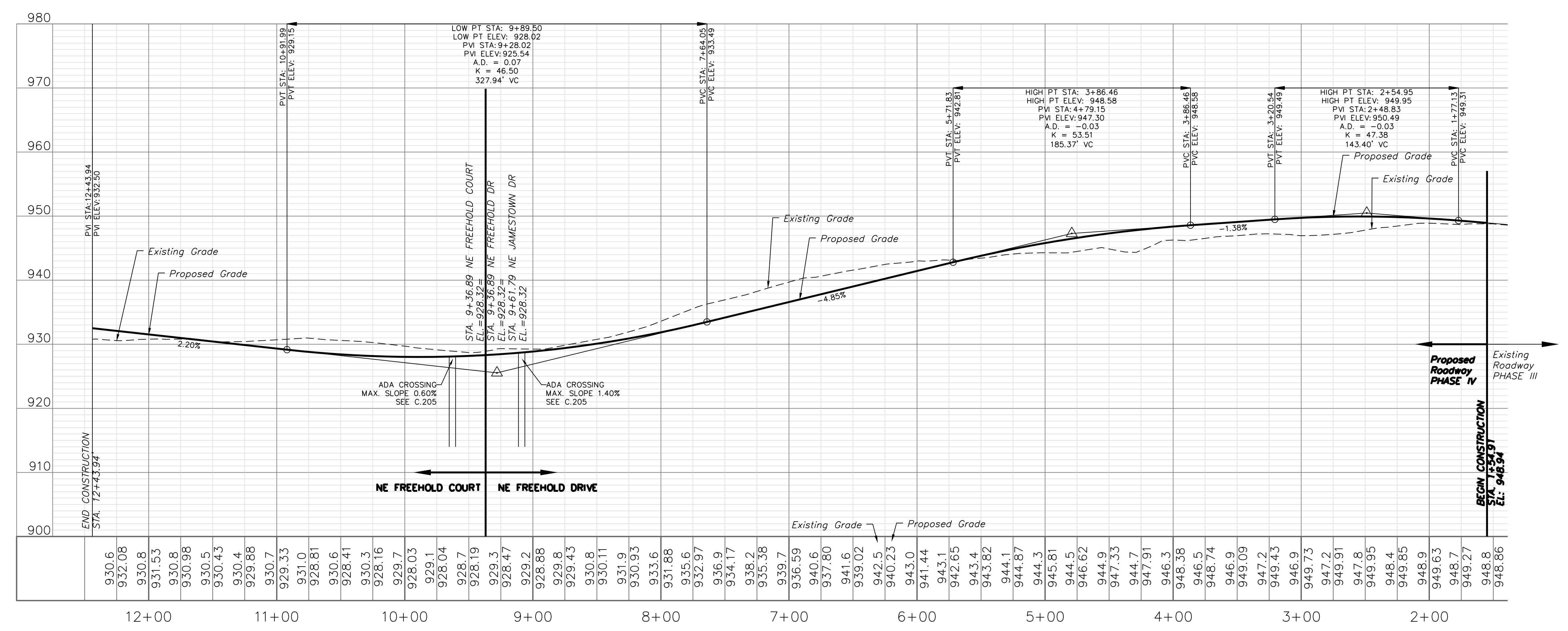
REVISIONS
REV. 5/20/2020
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C.203



NE FREEHOLD COURT

NE FREEHOLD DRIVE



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Professional Registration
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Surveying 200500518-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

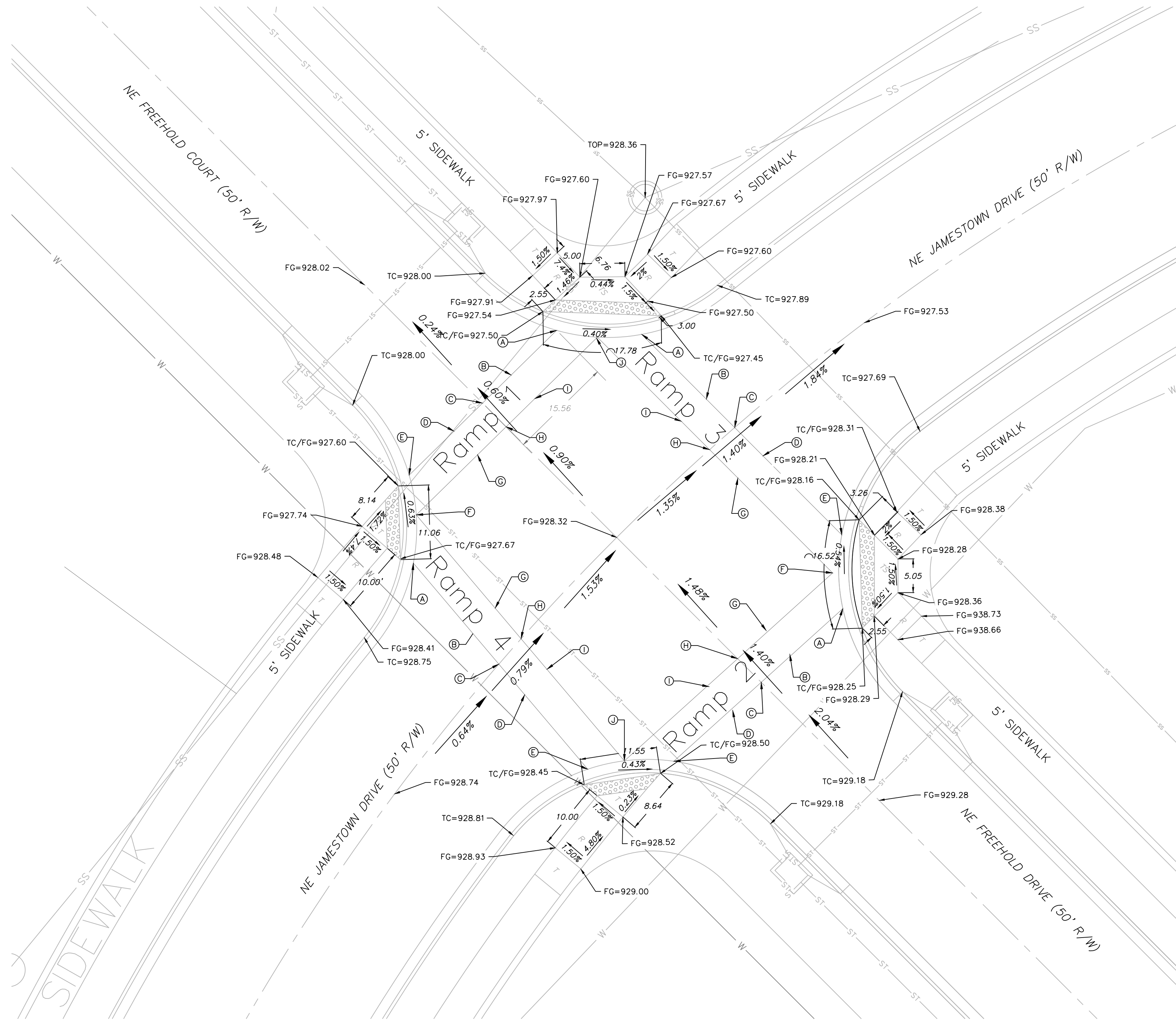
Survey Date: April 10, 2020

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

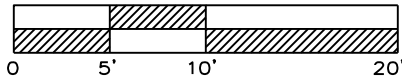
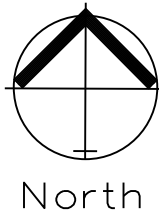
STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER
NO. 19071
EX. 25526

REVISIONS
REV. 5/20/2020
REV. 6/19/2020
REV. 7/7/2020

C.204

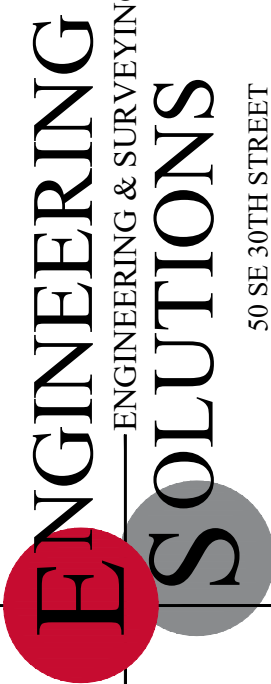


SPOT ELEVATION TABLE				
Spot	Ramp 1 Elevation	Ramp 2 Elevation	Ramp 3 Elevation	Ramp 4 Elevation
A	927.50	928.22	927.45	927.67
B	927.96	928.65	927.87	928.46
C	928.08	928.77	927.99	928.58
D	927.96	928.65	928.03	928.46
E	927.60	928.50	928.16	928.45
F	927.67	928.20	928.20	927.60
G	927.99	928.58	928.13	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.

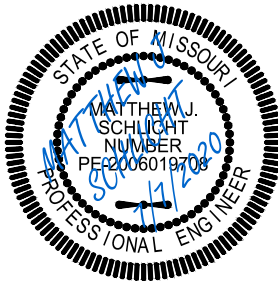


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005189-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

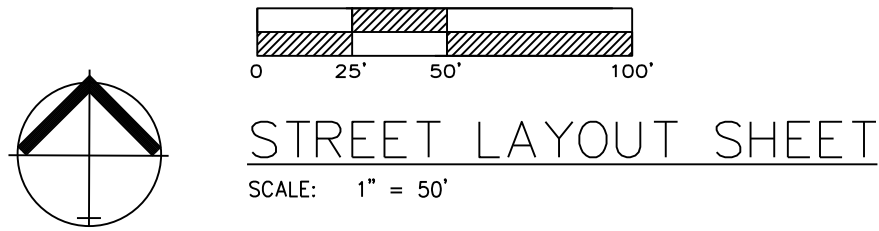
Project:
Monticello
Issue Date:
April 10, 2020

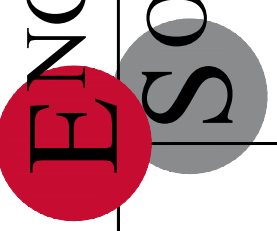
Intersection Details & ADA Ramp Plan
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



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KS PE 19071
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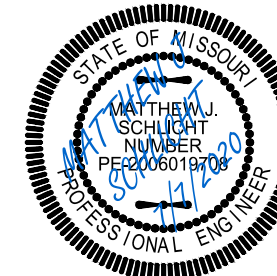


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Kansas
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Nebraska
Engineering CA2821

Project: Monticello
Issue Date: April 10, 2020

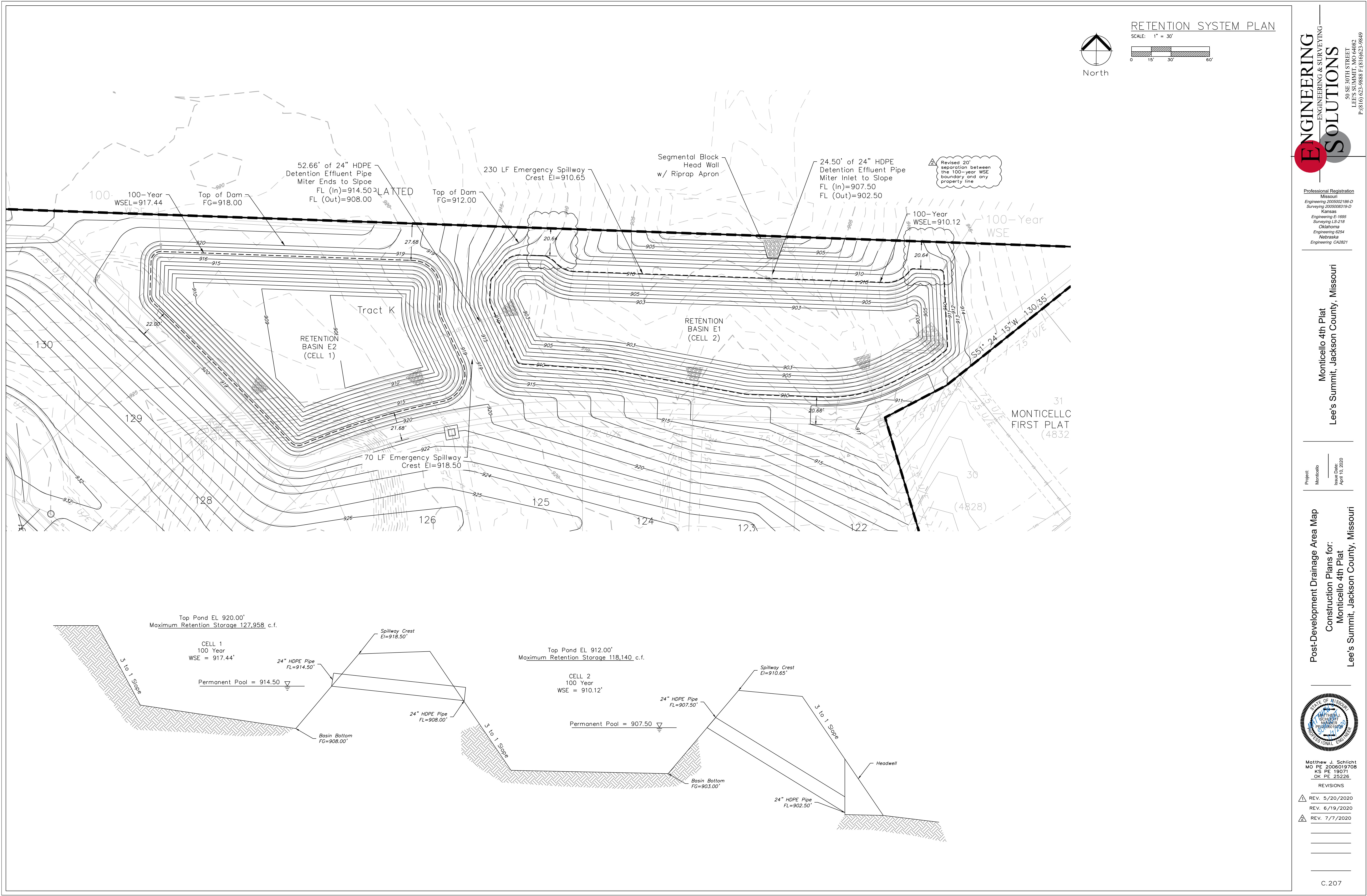
STREET LAYOUT SHEET
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri



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C. 206



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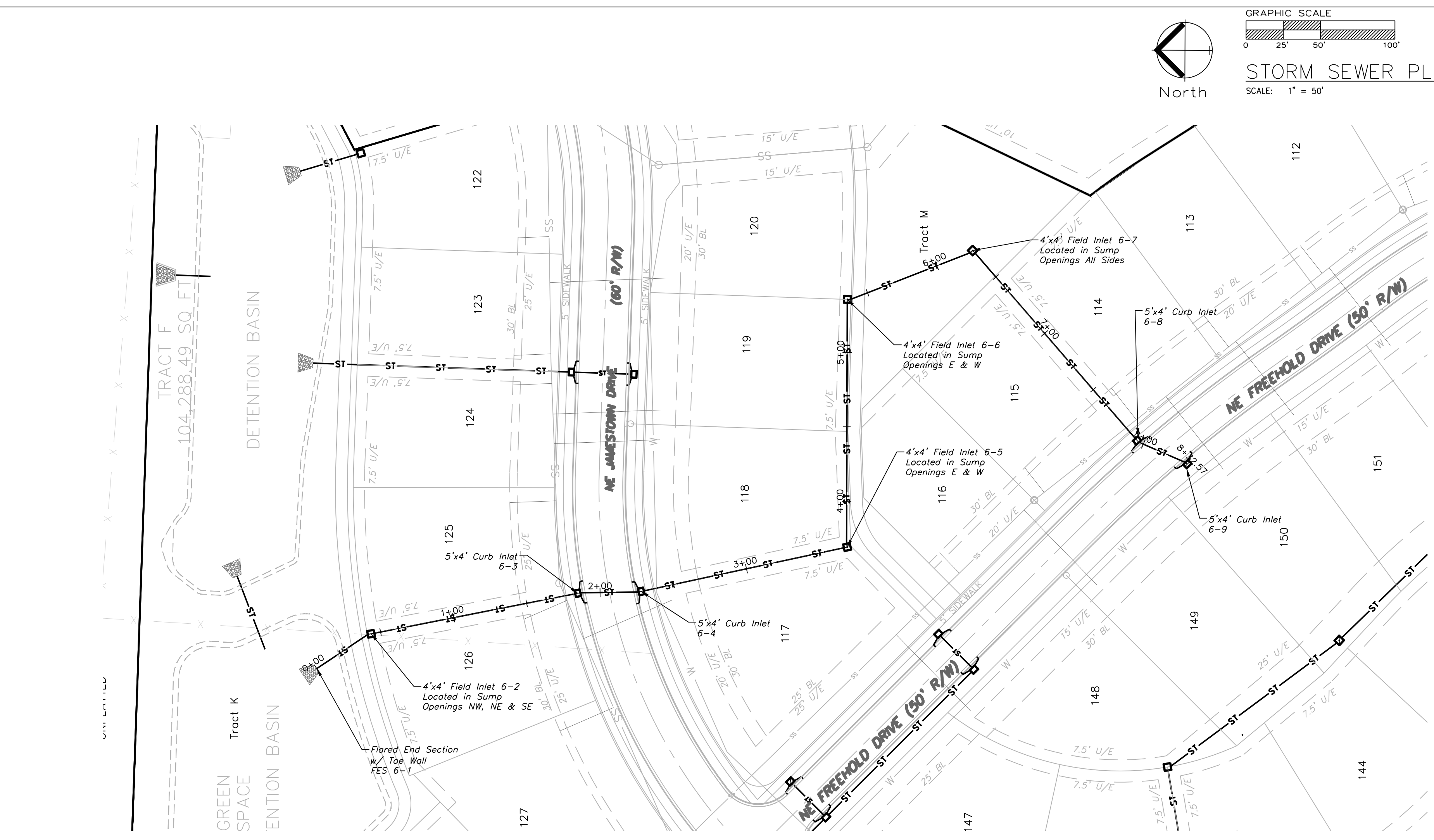
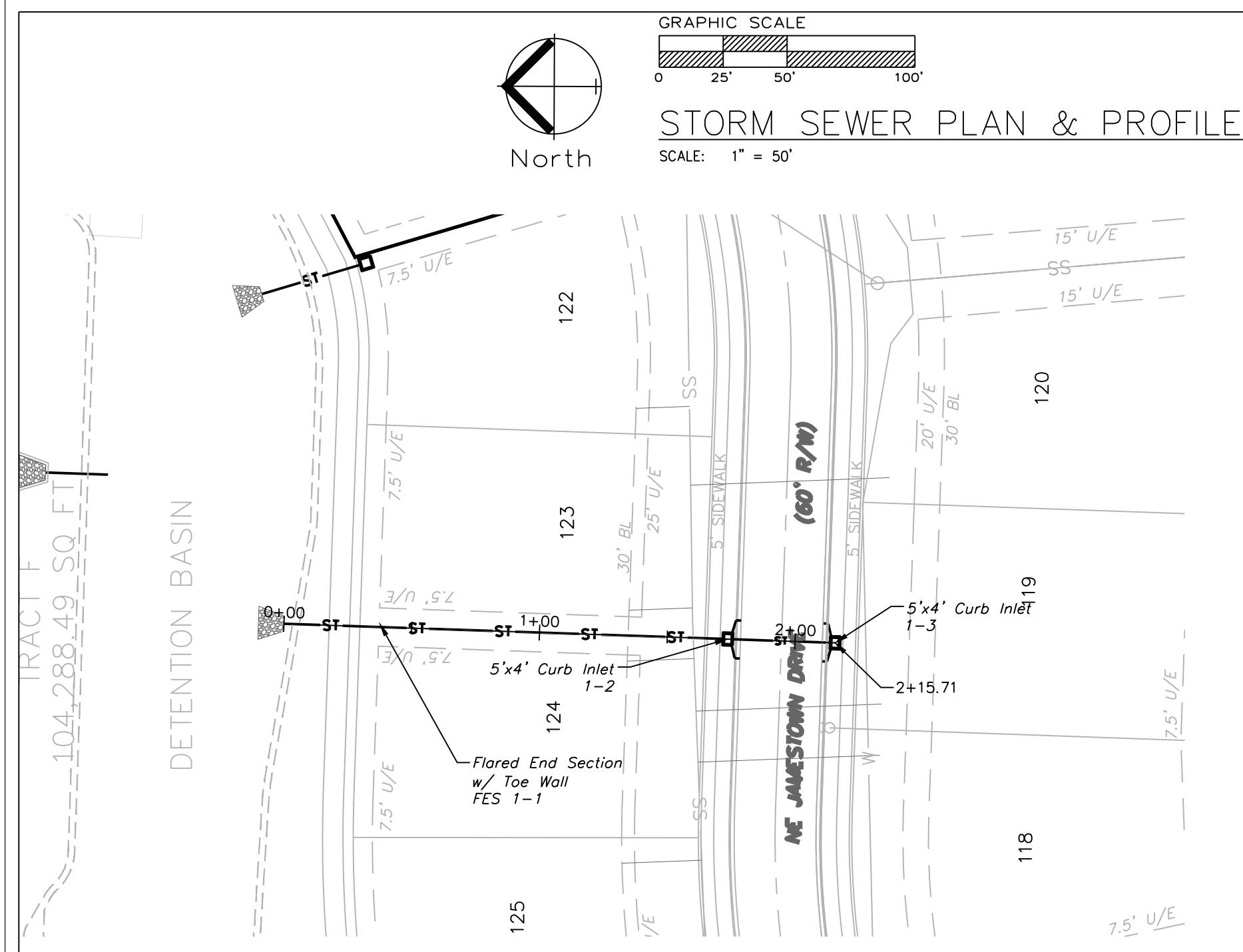
Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005189-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: Monticello
Issue Date: April 10, 2020

Post-Development Drainage Area Map
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

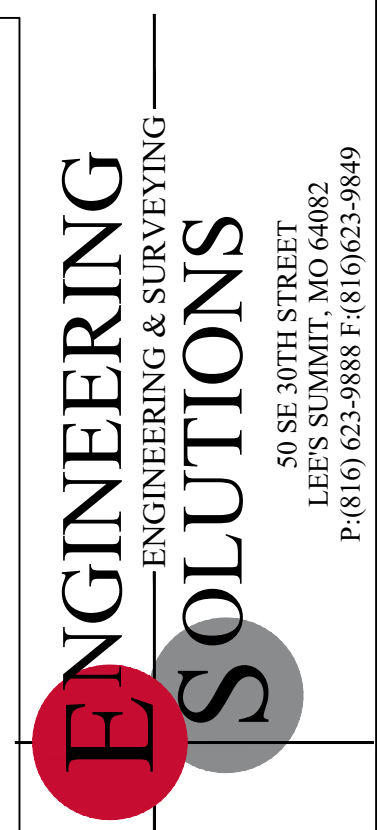
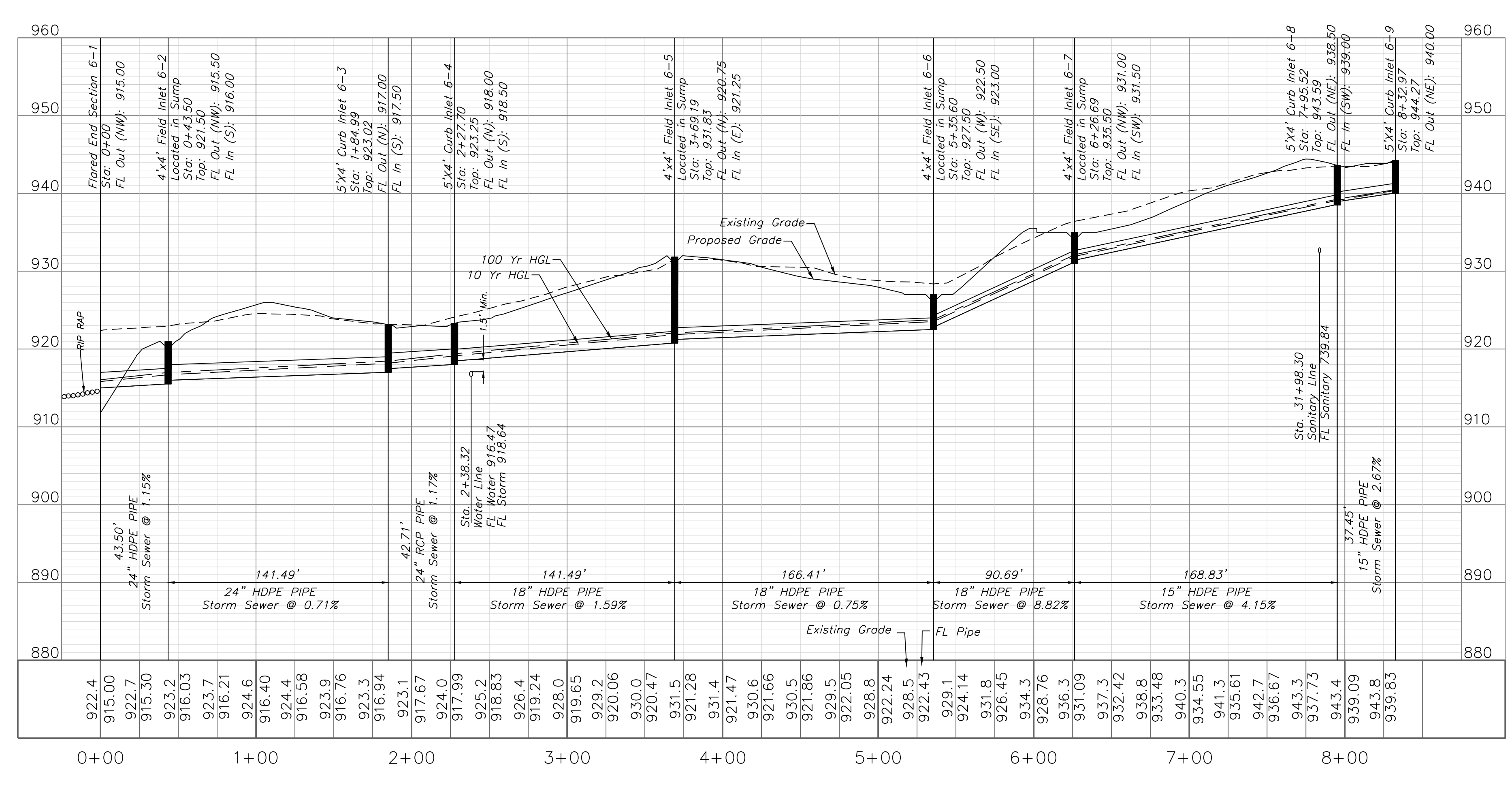
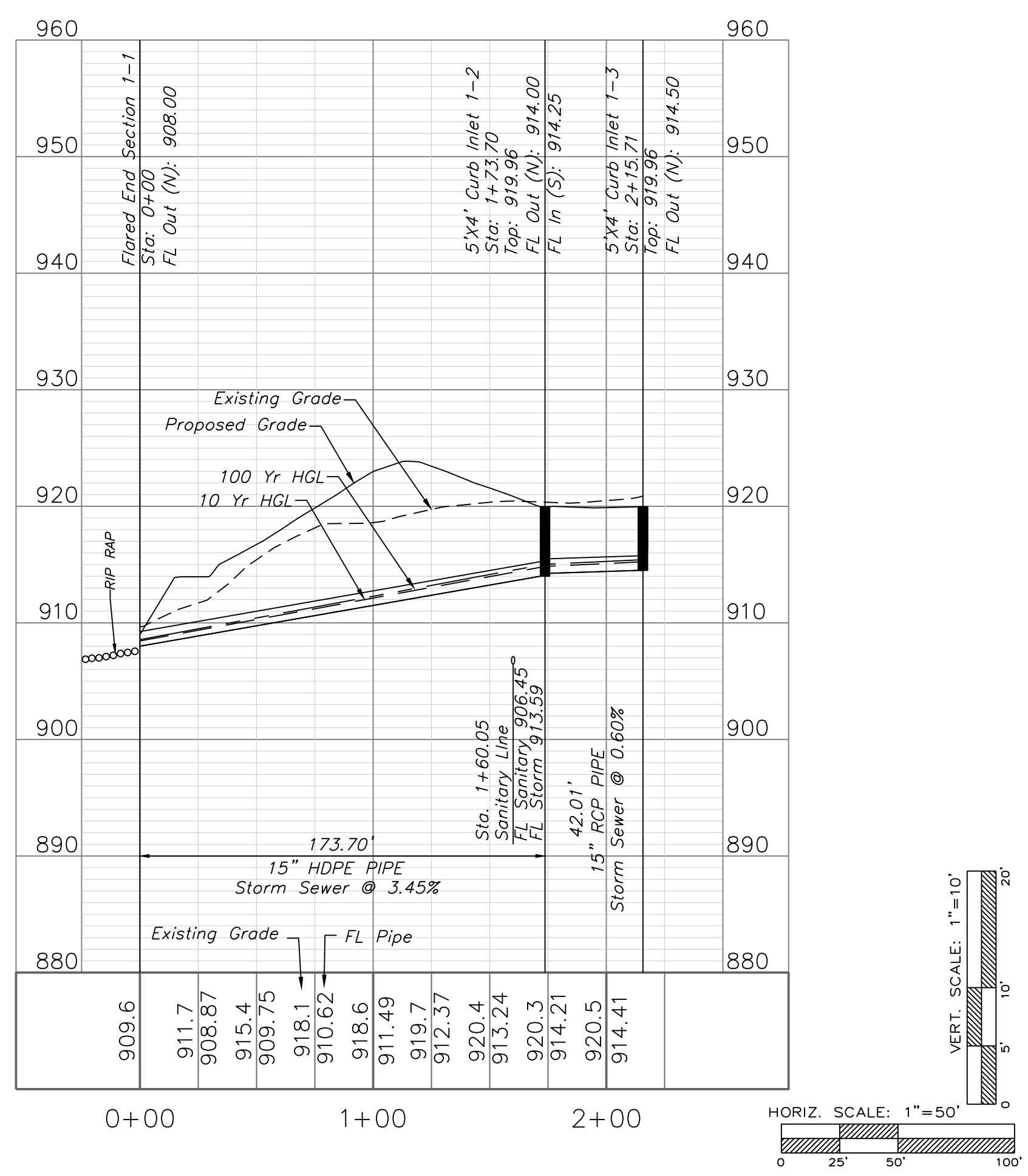
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MO PE 2006019708
KS PE 19071
OK PE 25226

STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER
No. 0000019708
EXPIRATION DATE 12/31/2026



STORM 1

STORM 6

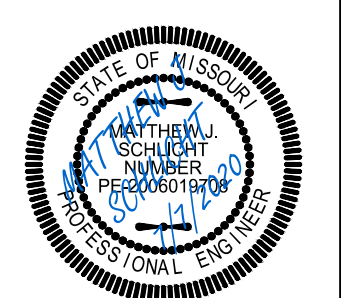


Professional Registration
Missouri
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Surveying 200500518-D
Kansas
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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Monticello
Map Date:
April 10, 2020

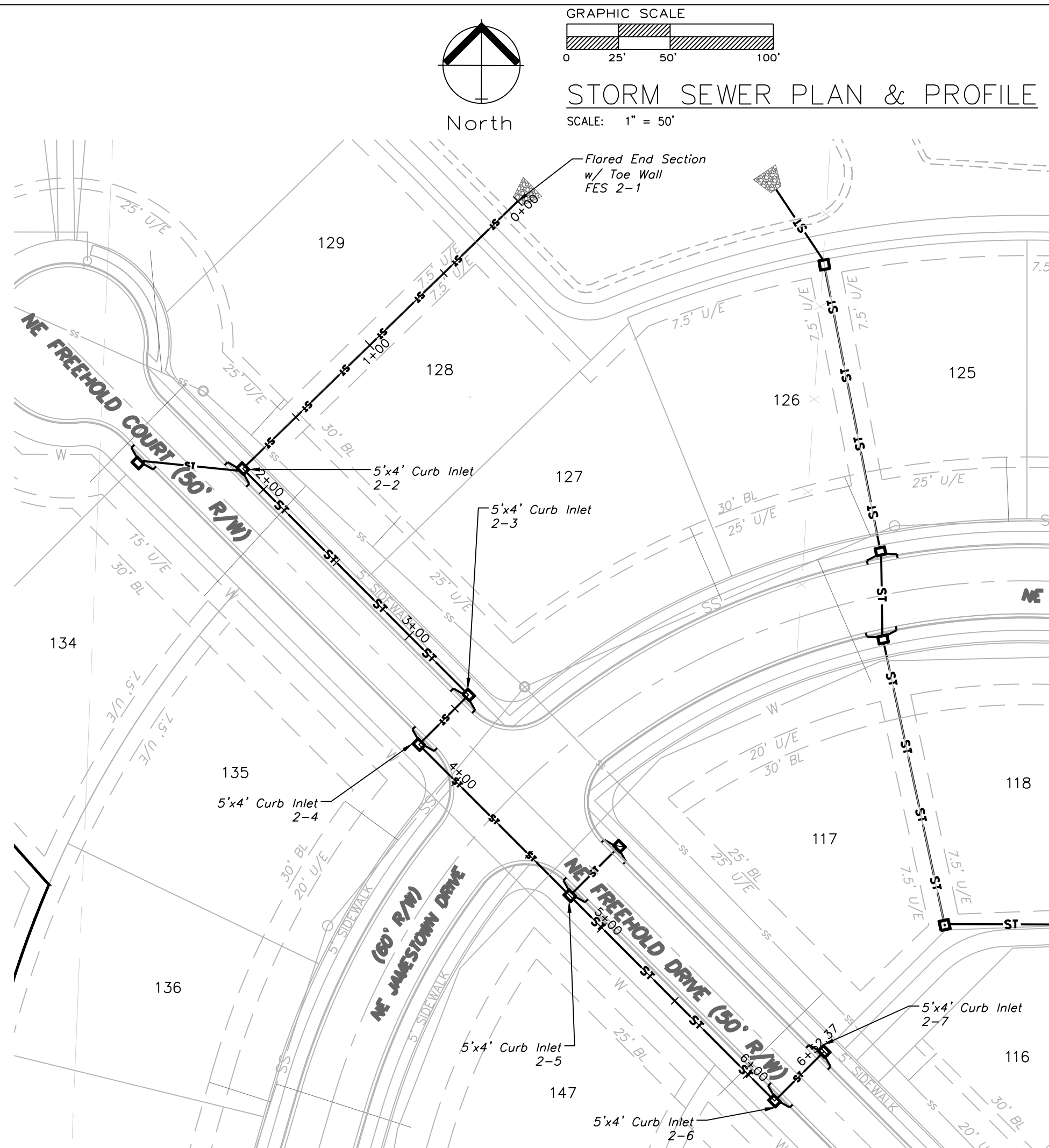
Storm Sewer Plan and Profile
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

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

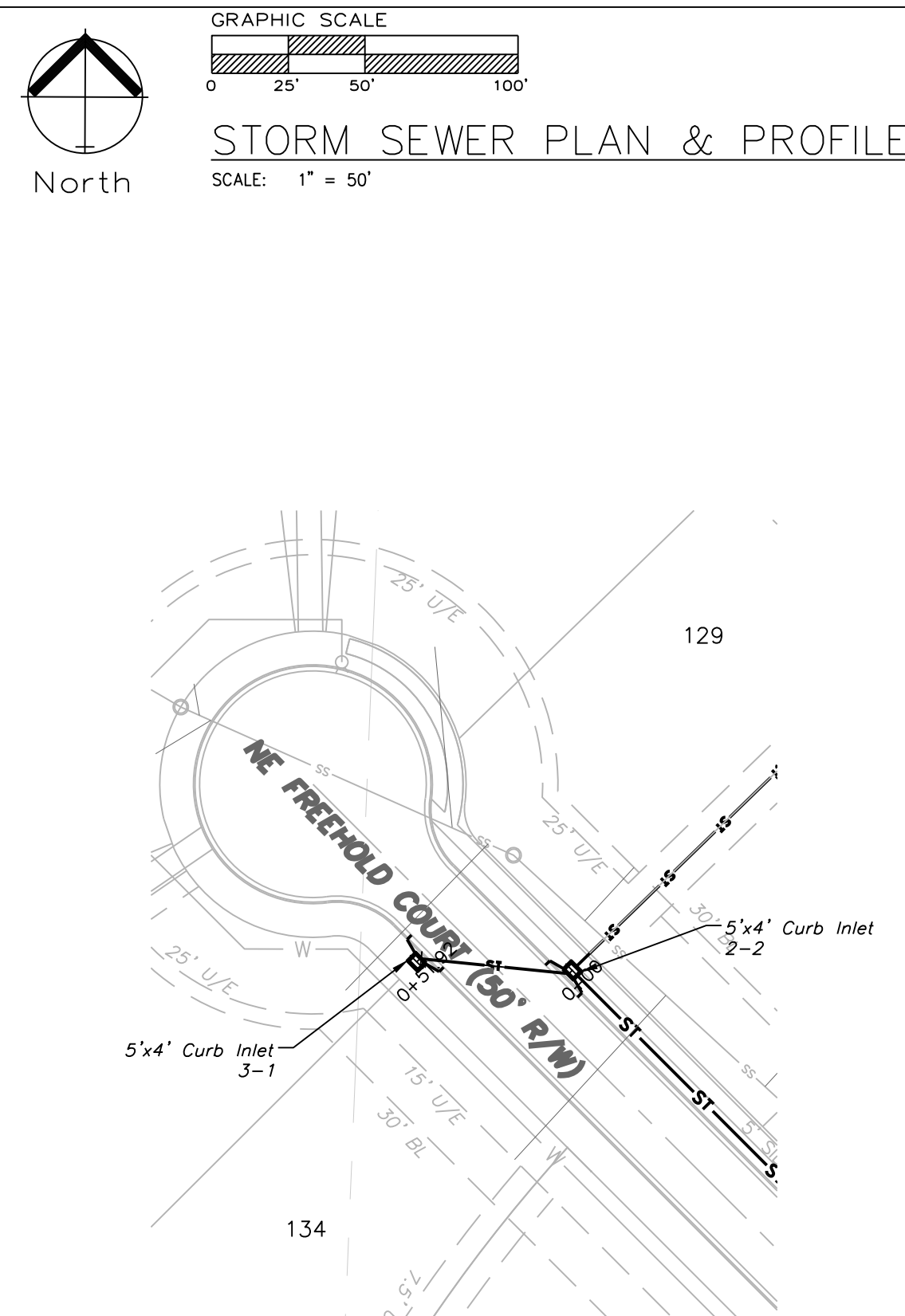
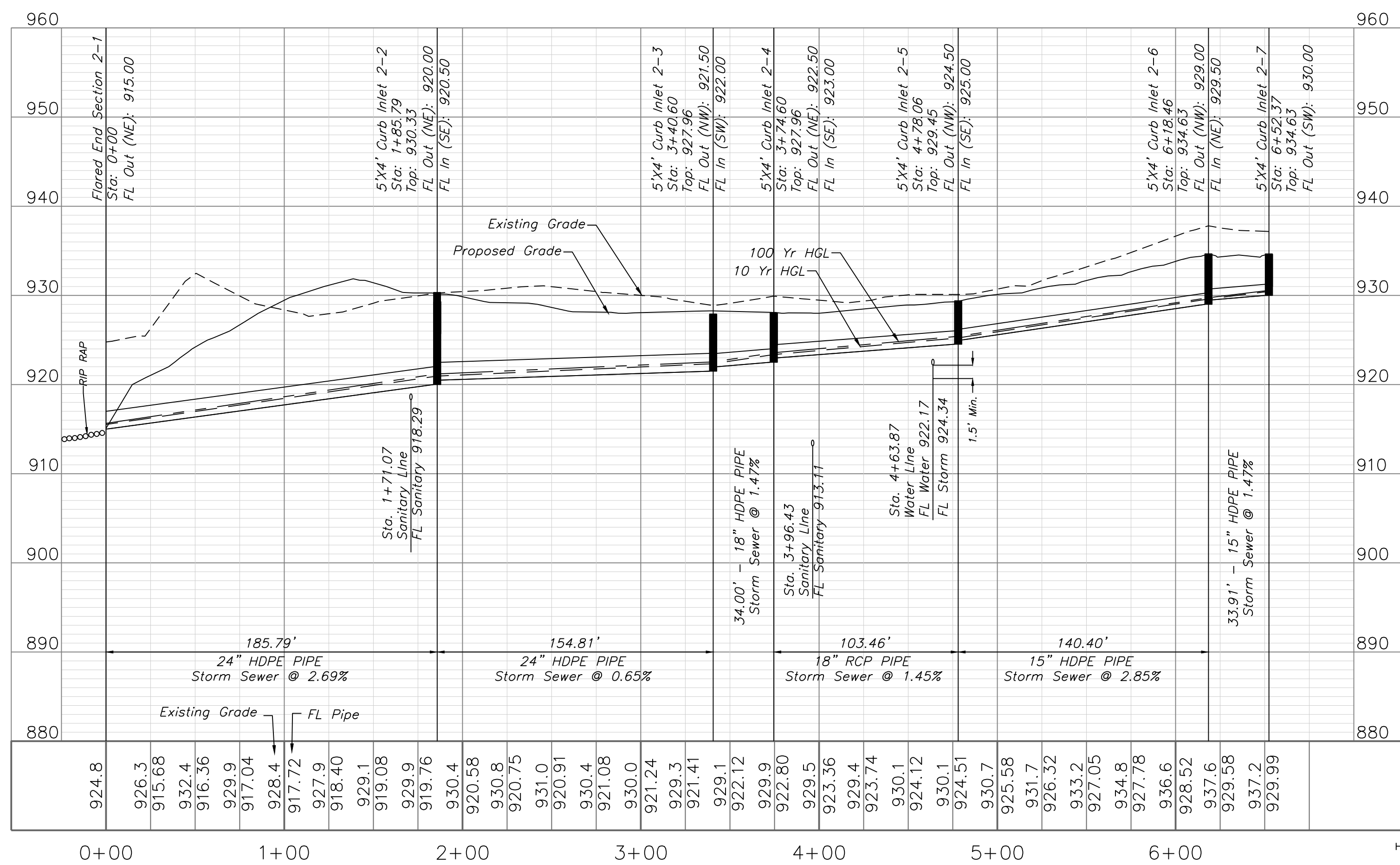


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KS PE 19071
OK PE 25526

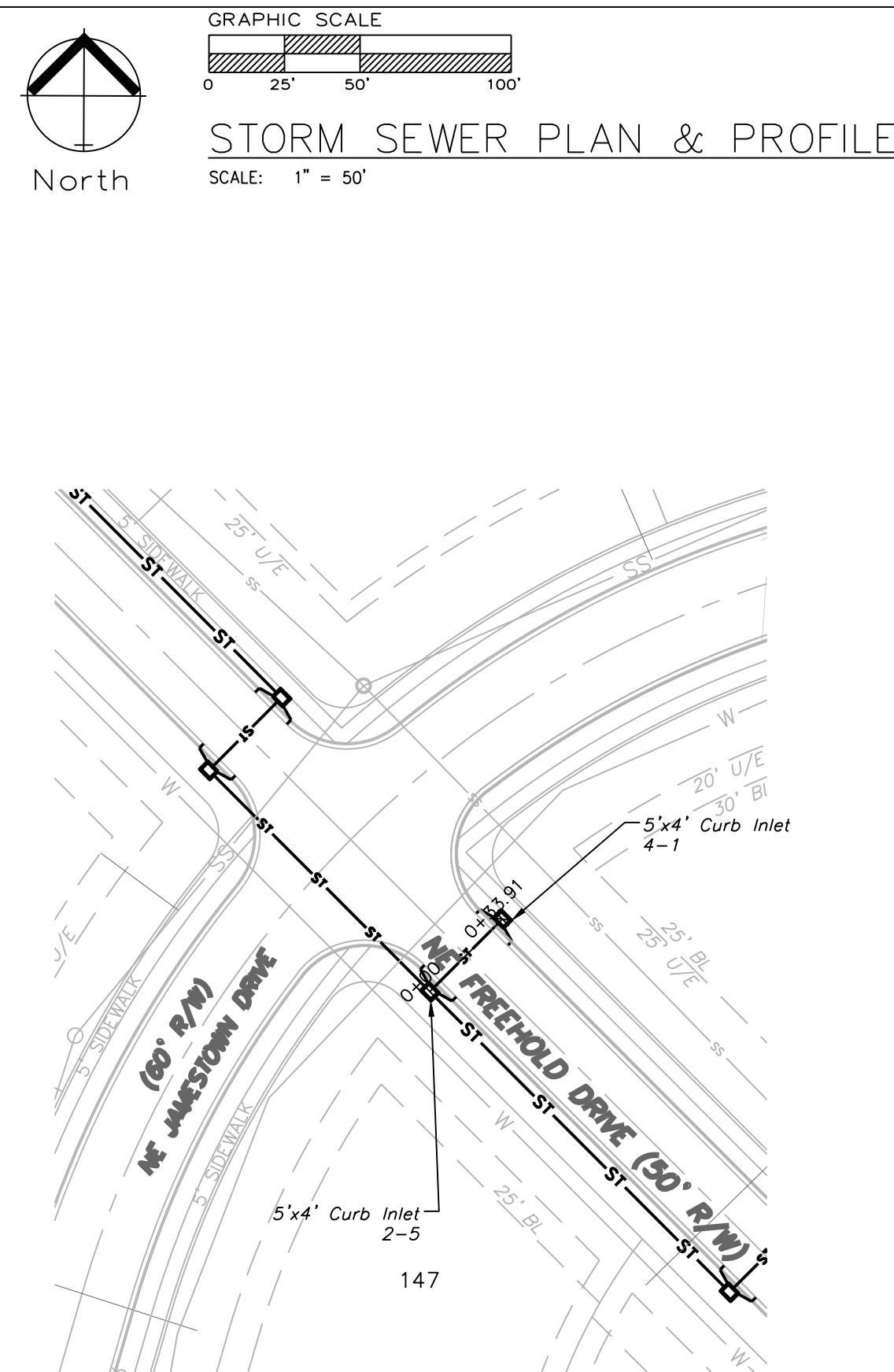
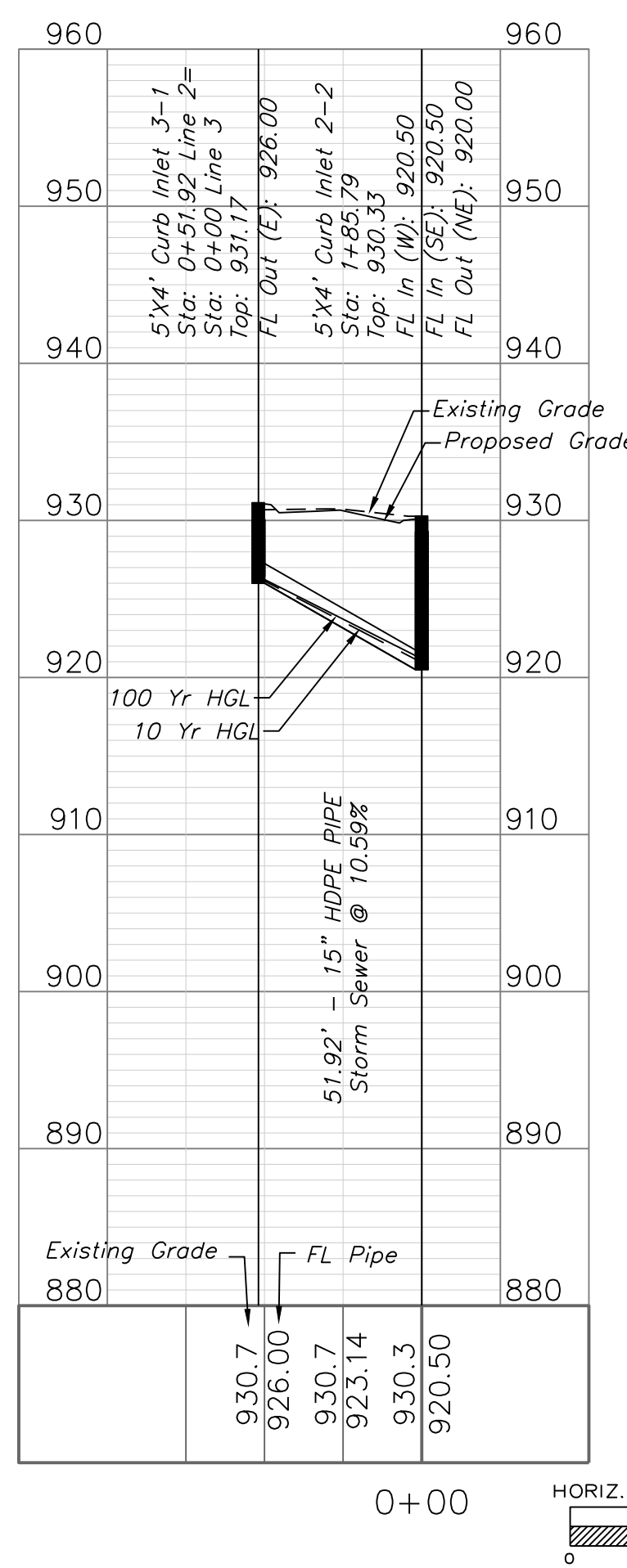
REVISIONS
REV. 5/20/2020
REV. 6/19/2020
REV. 7/7/2020



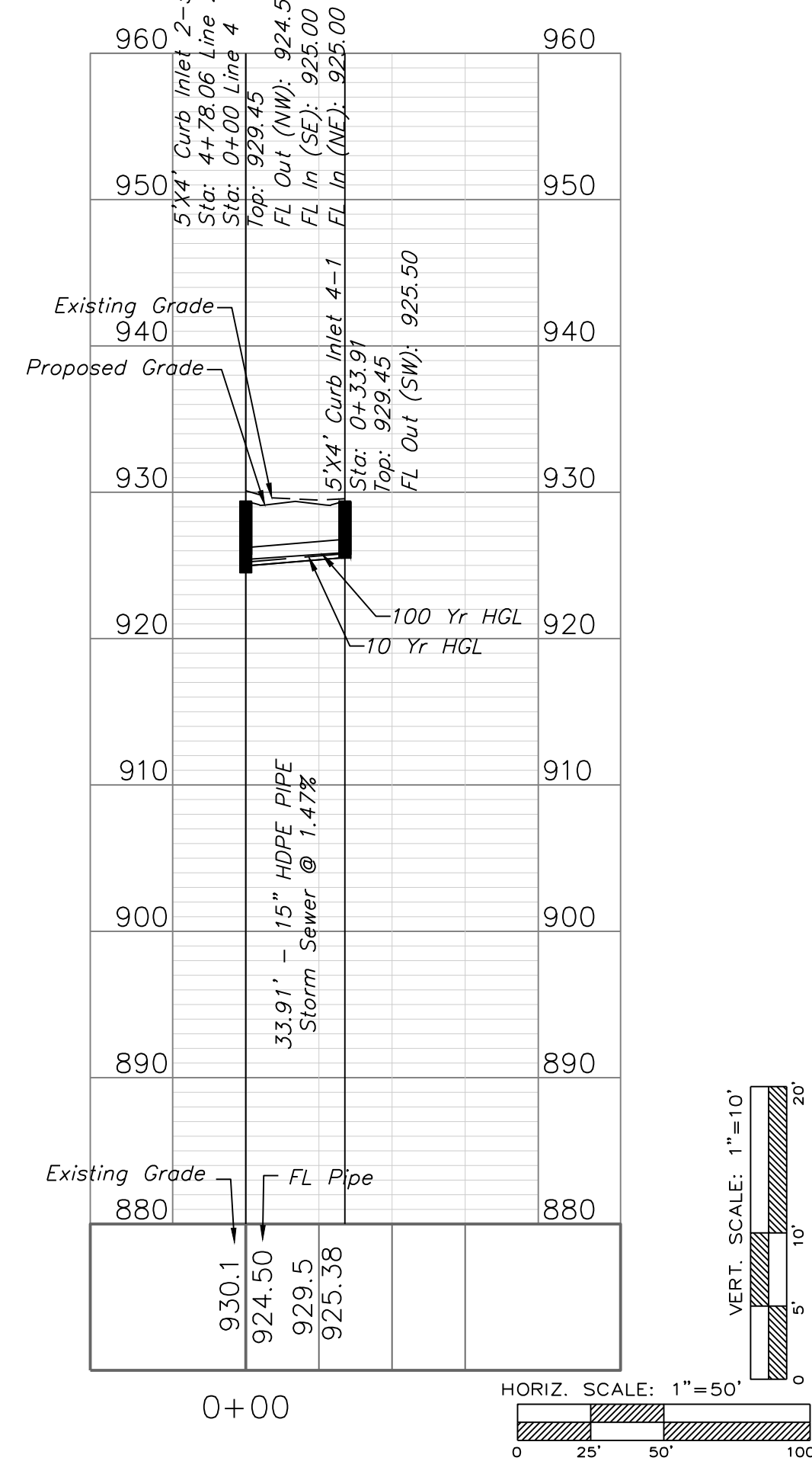
STORM 2



STORM 3



STORM 4



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

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

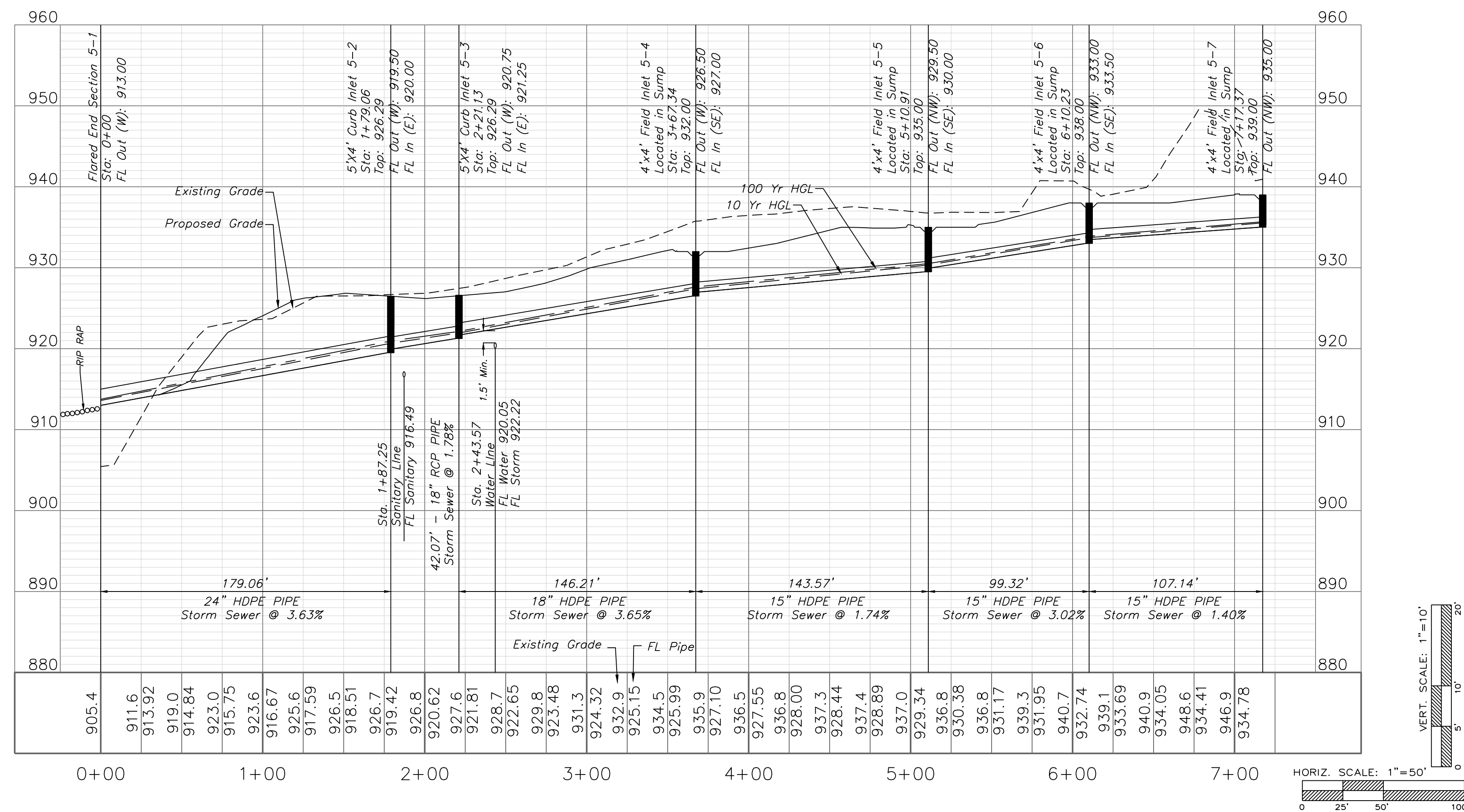
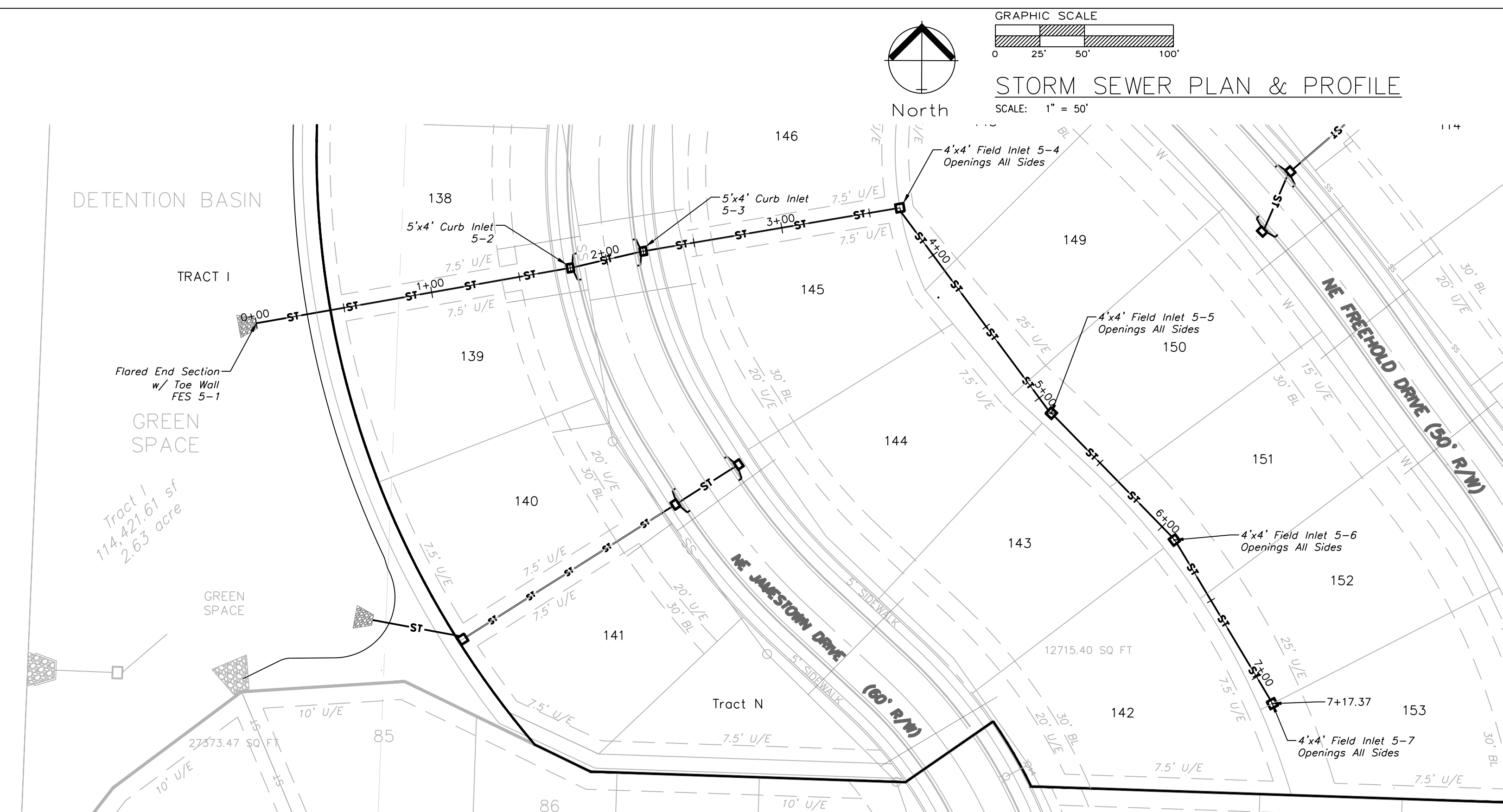
Project: Monticello
Monticello
Issue Date: April 10, 2020

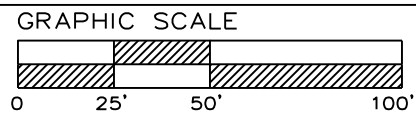
Storm Sewer Plan and Profile
Construction Plans for:
Monticello 4th Plat
Lee's Summit, Jackson County, Missouri

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

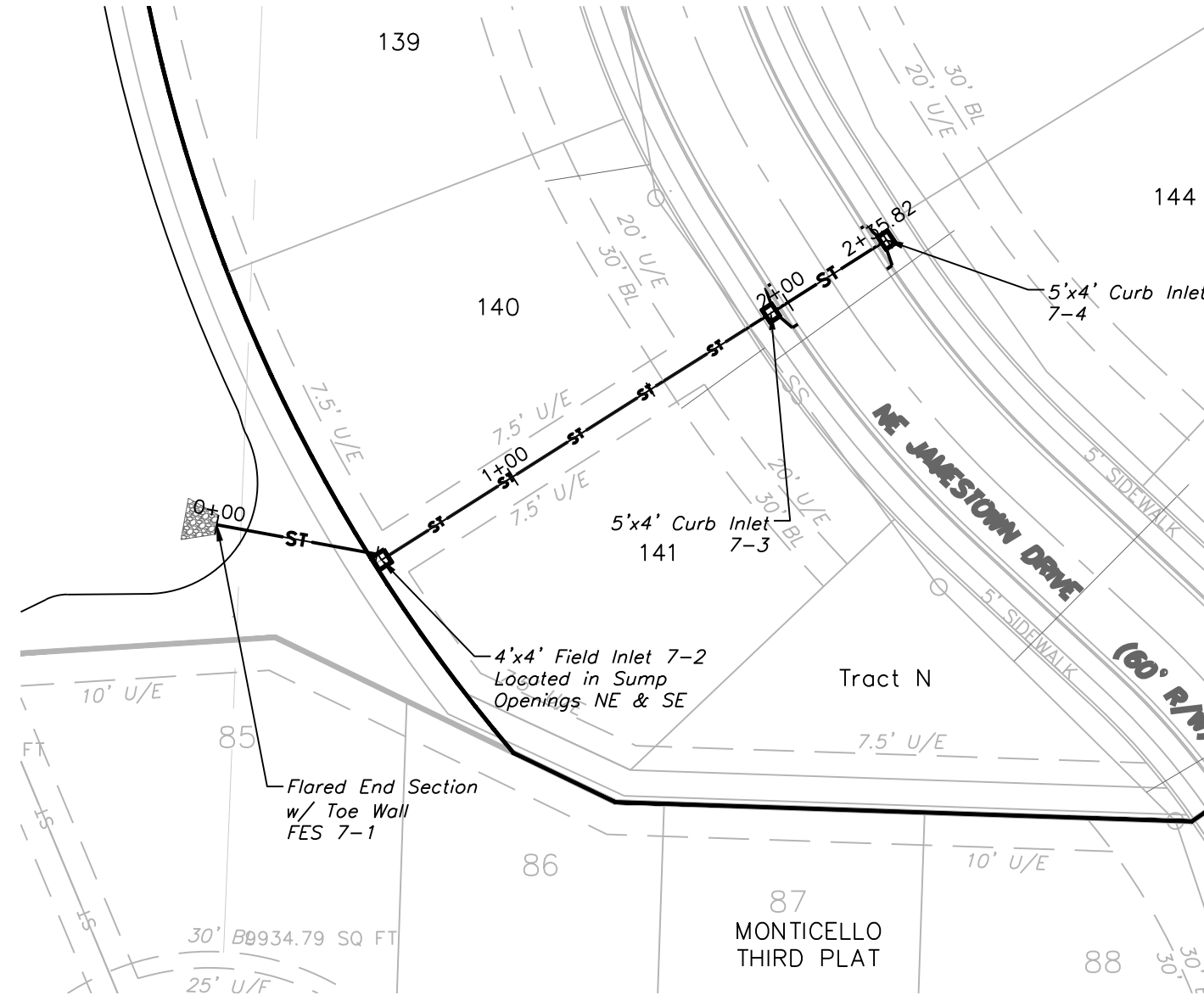
REVISIONS
REV. 5/20/2020
REV. 6/19/2020
REV. 7/7/2020

C. 302

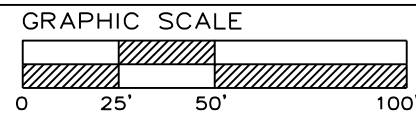
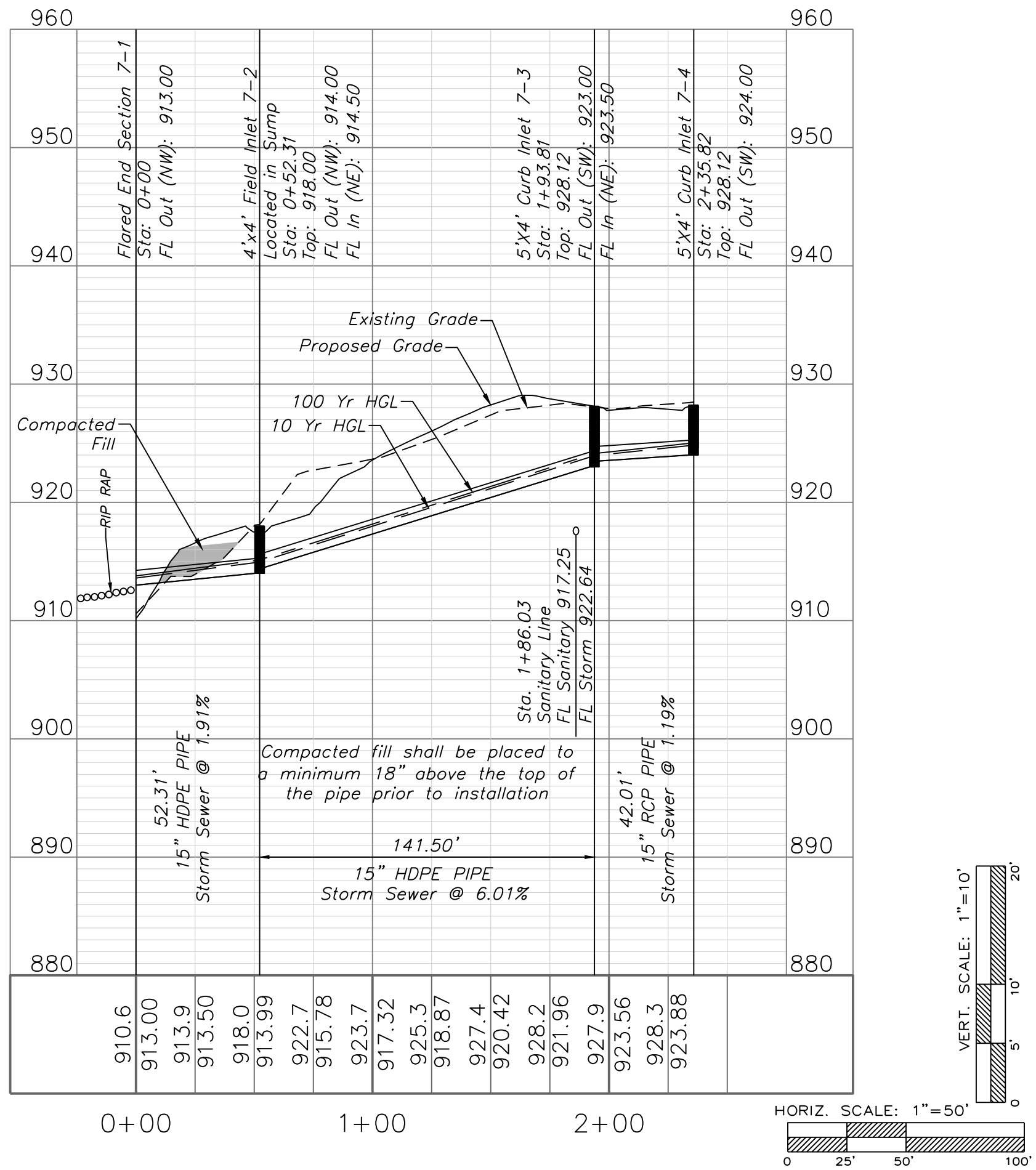




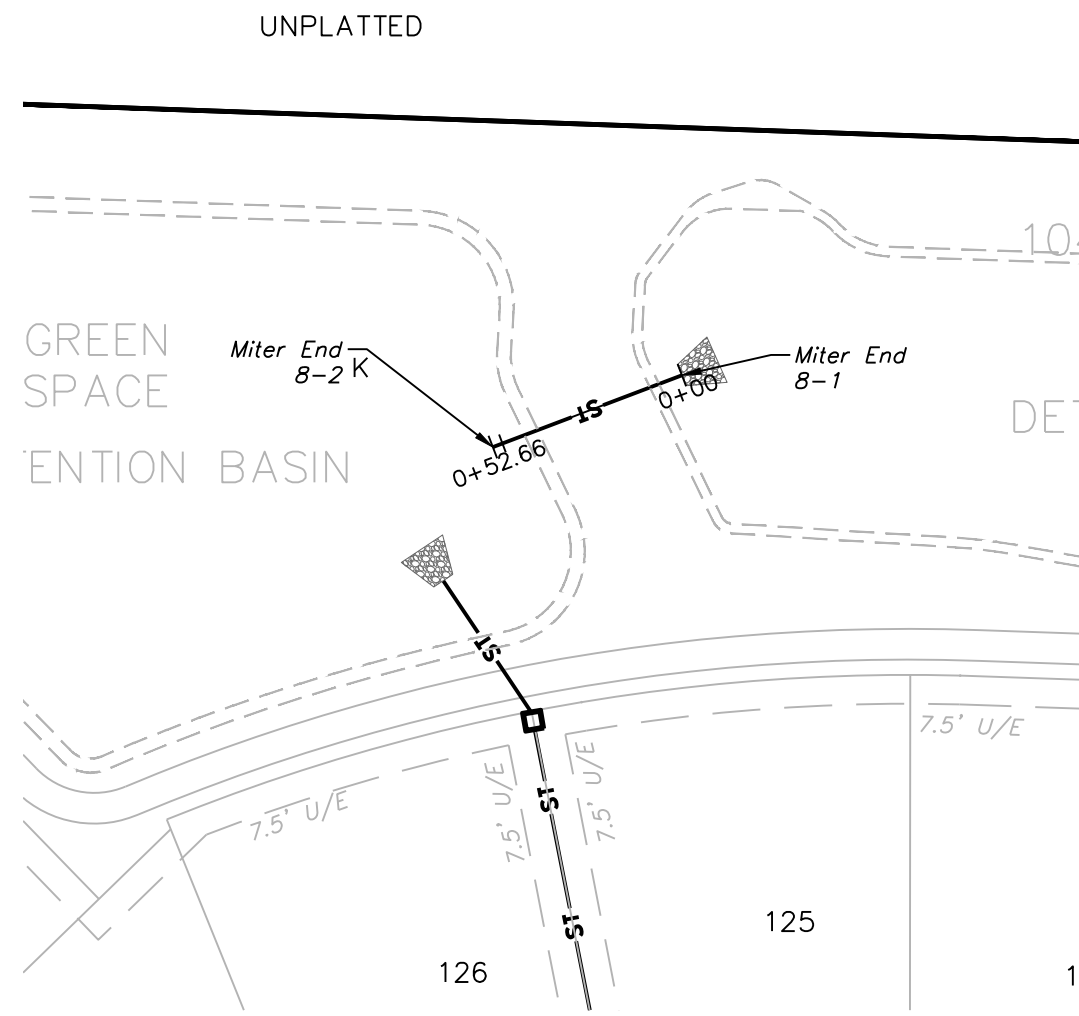
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



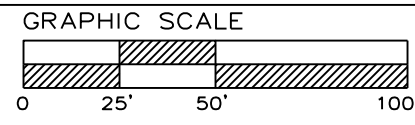
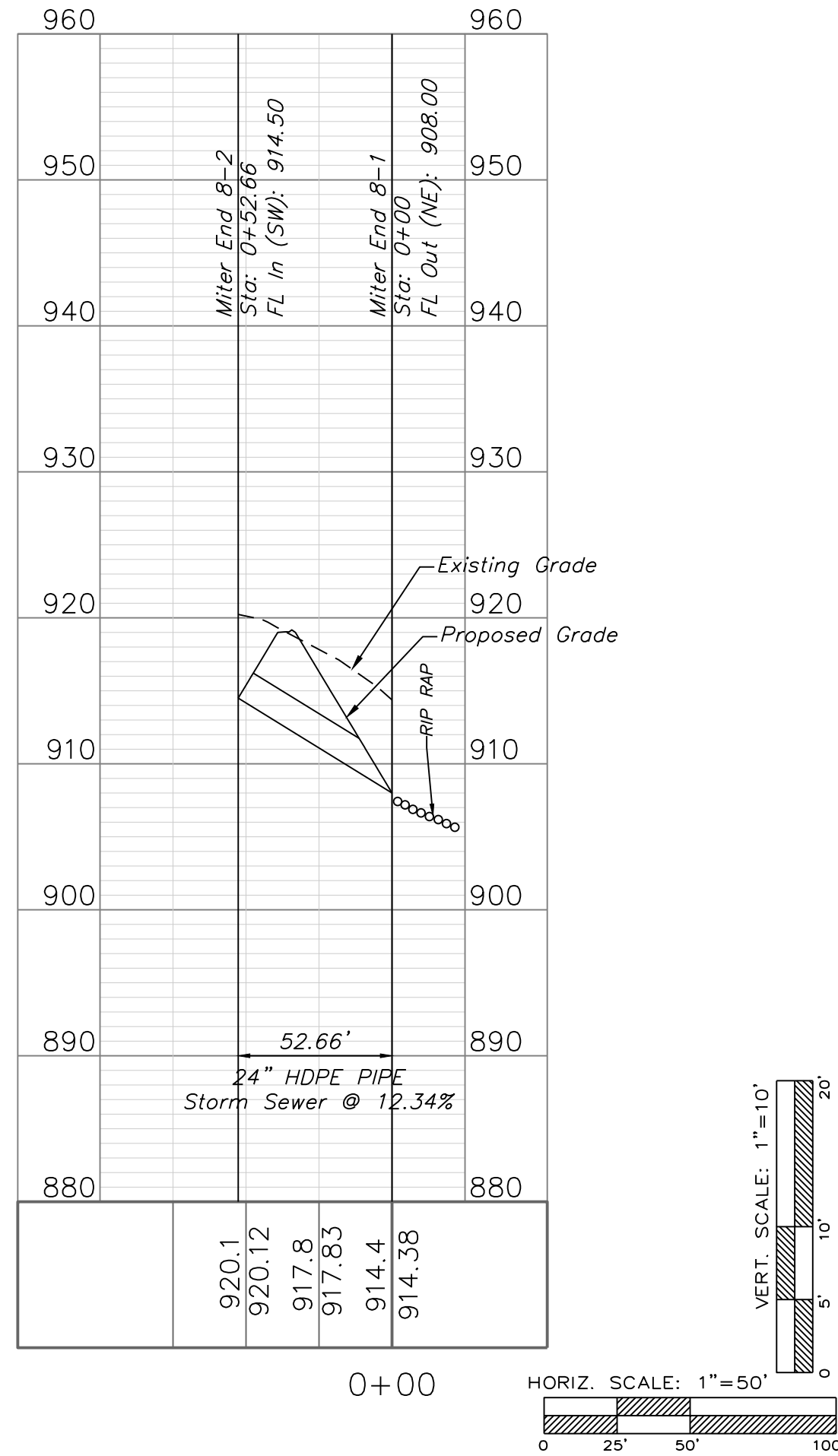
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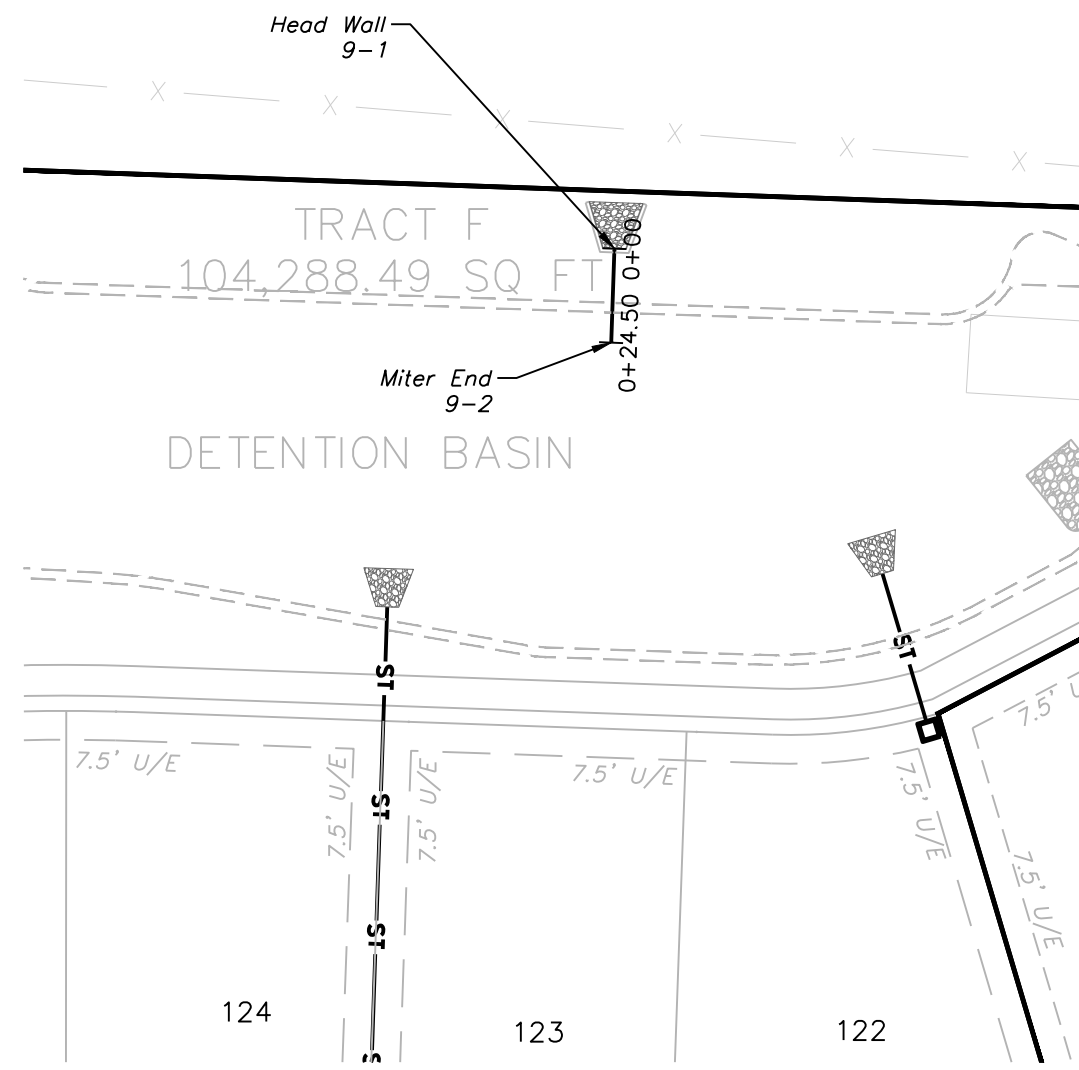
STORM SEWER PLAN & PROFILE
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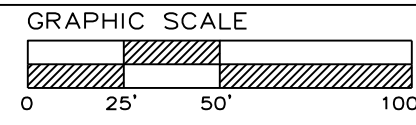
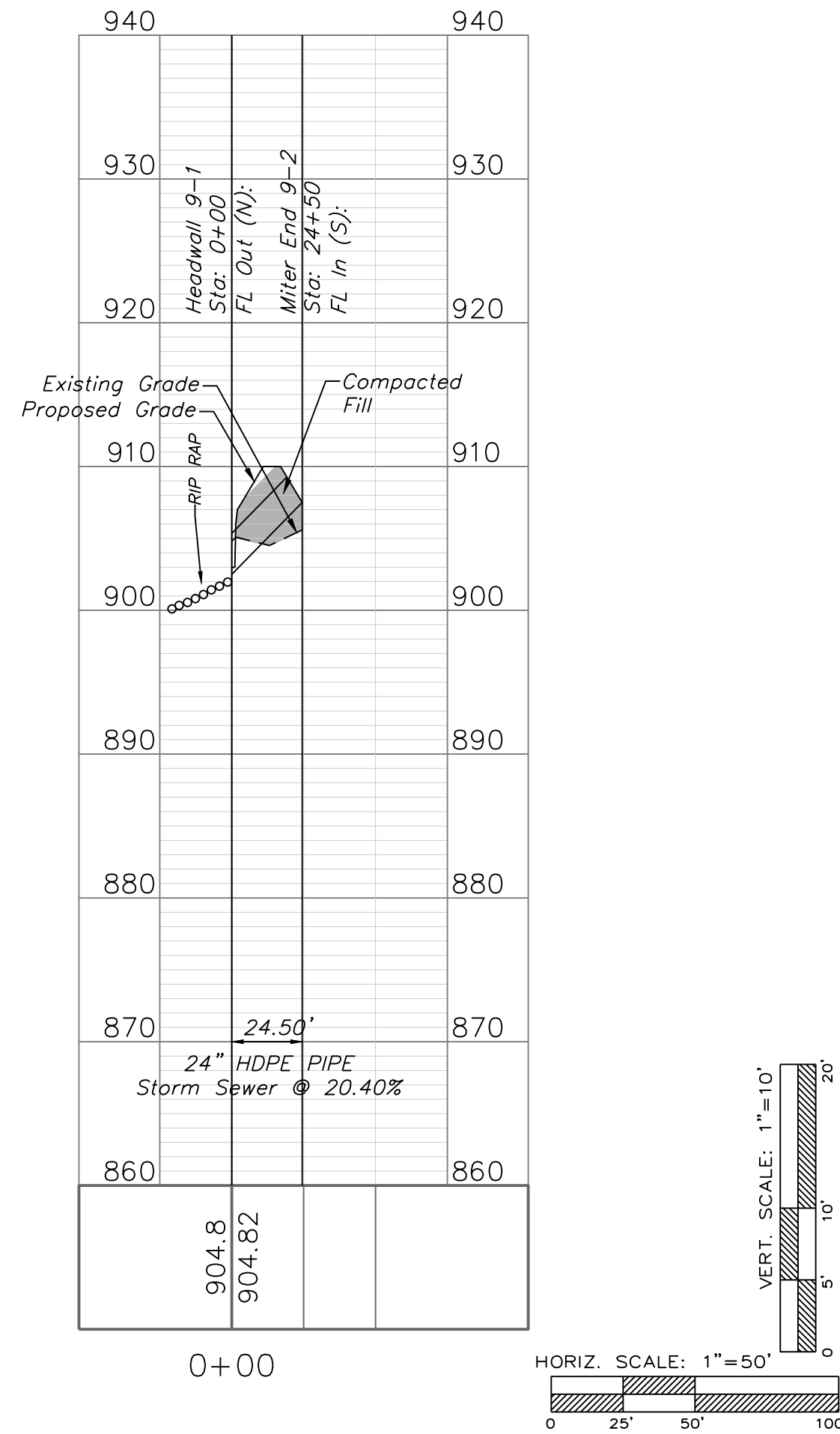
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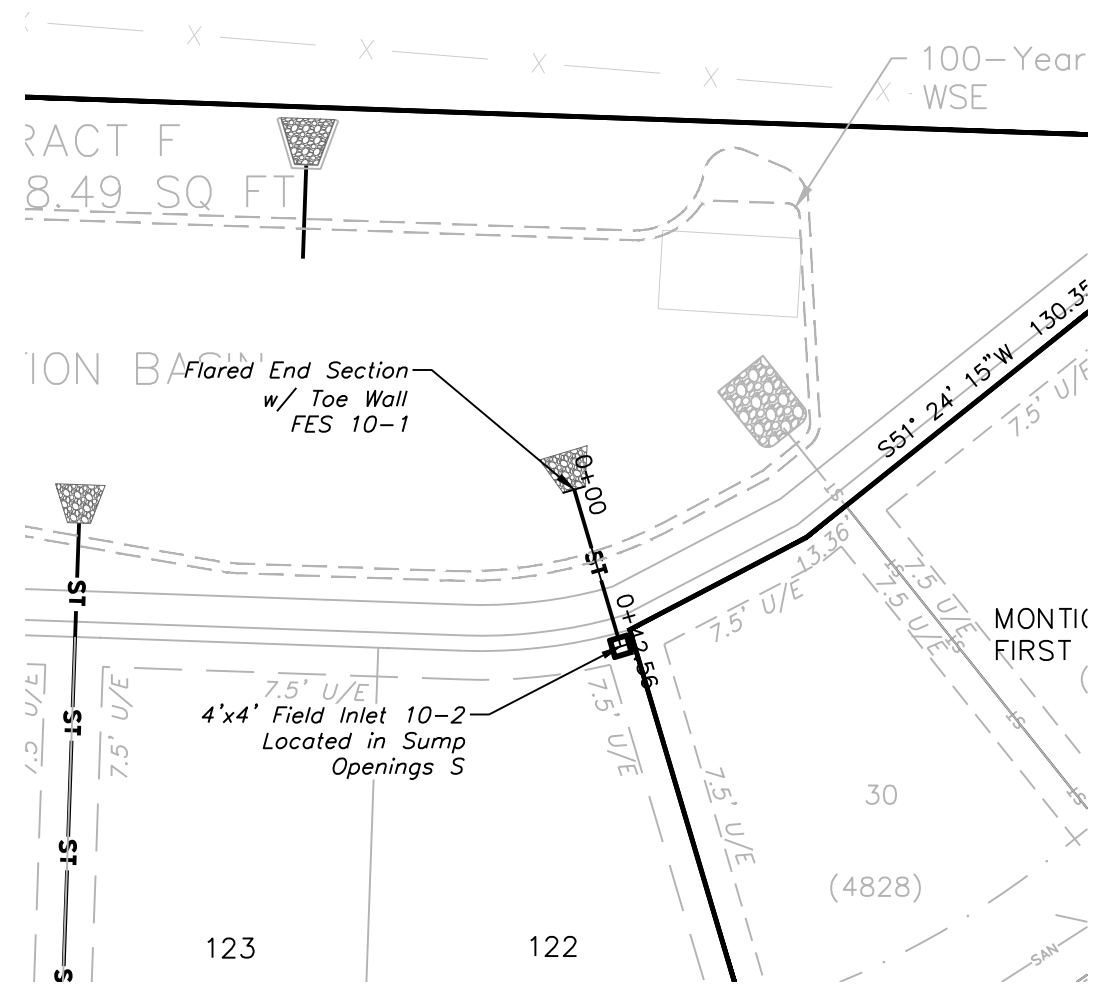
STORM SEWER PLAN & PROFILE
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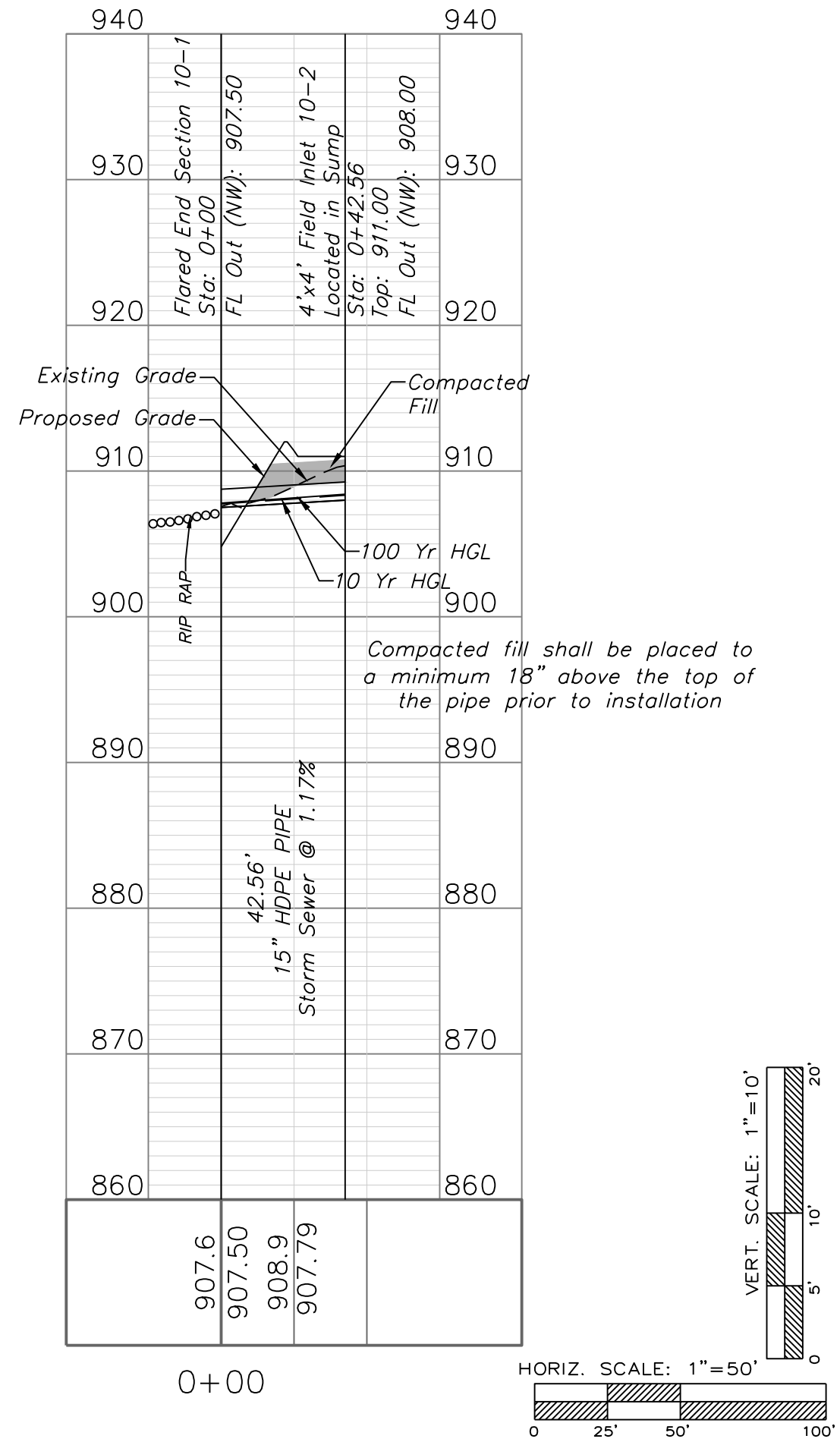
STORM 9



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



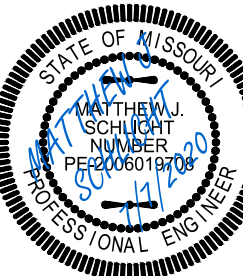
STORM 10



Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005000519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Monticello
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



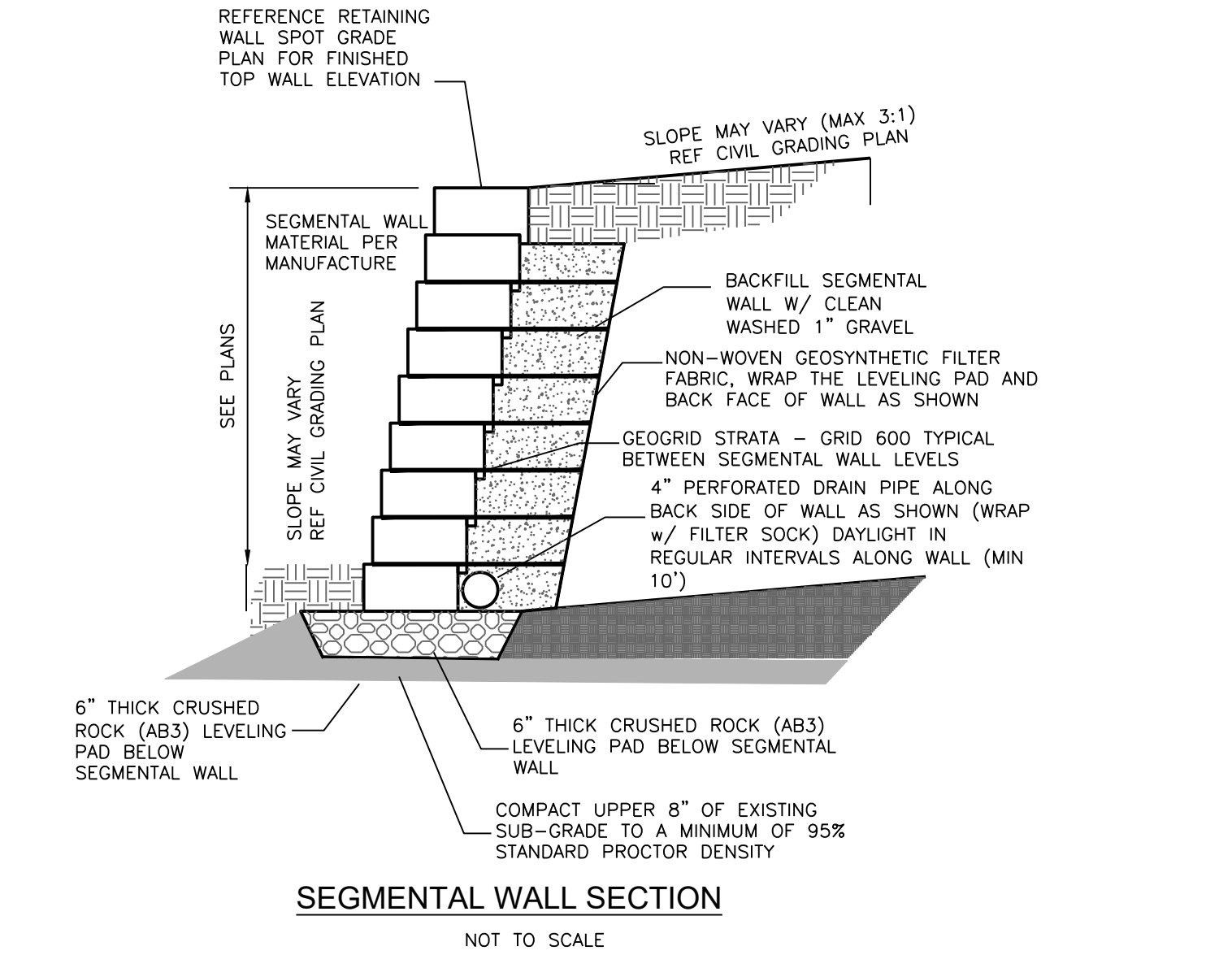
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

REVISIONS
REV. 5/20/2020
REV. 6/19/2020
REV. 7/7/2020

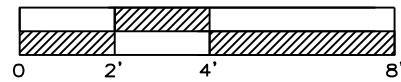
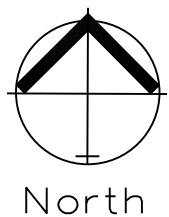
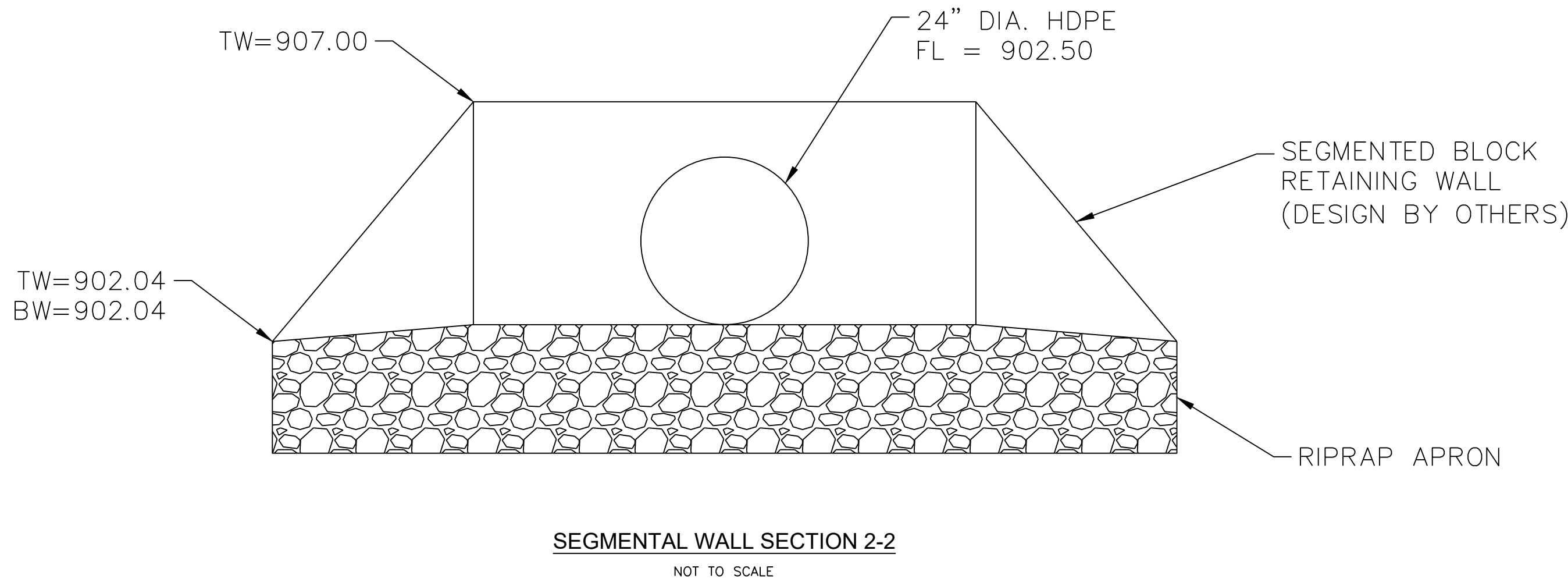
10 YEAR INLET																						
D.S. Str.	Str.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	InletDepth (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

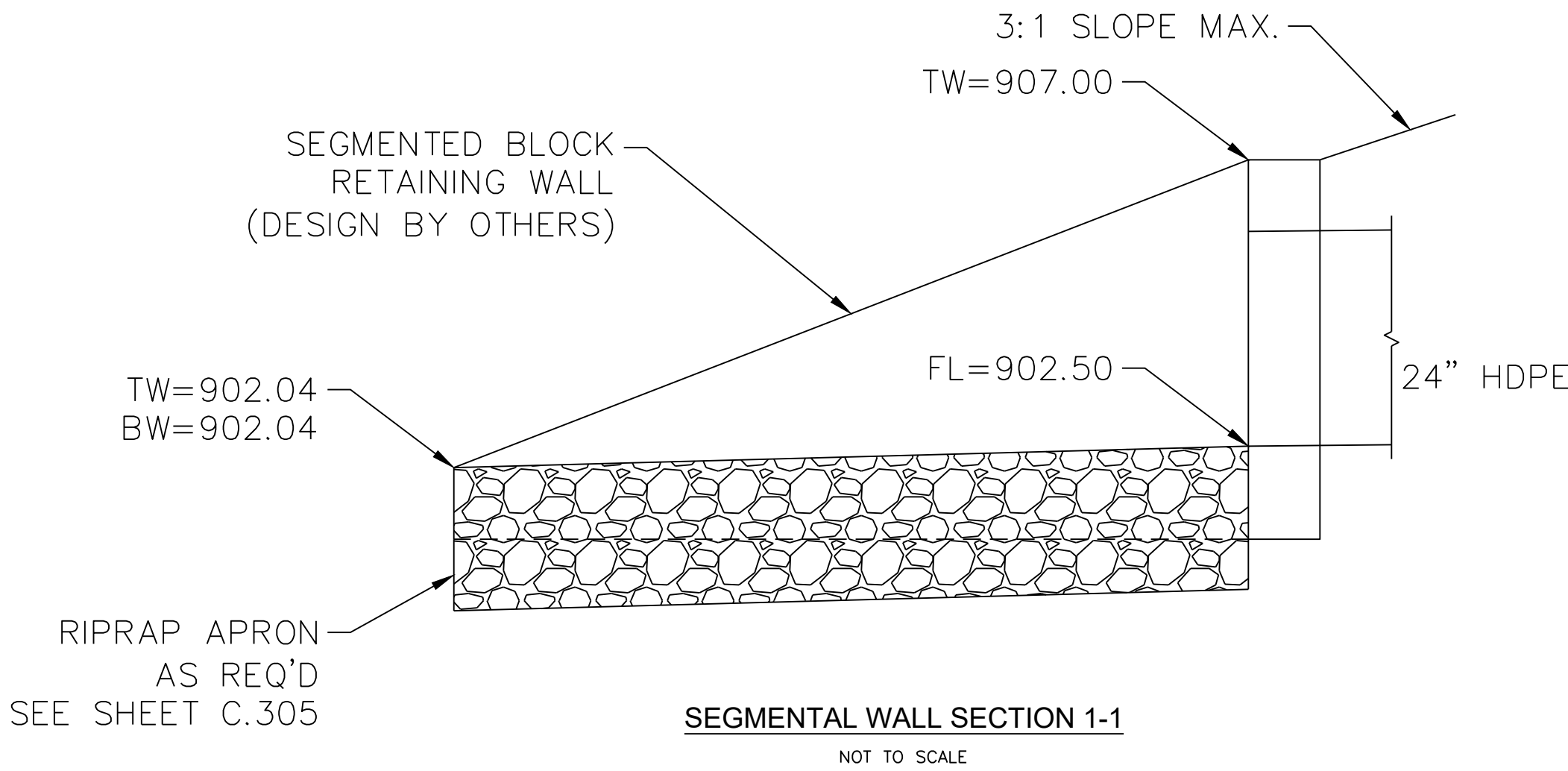
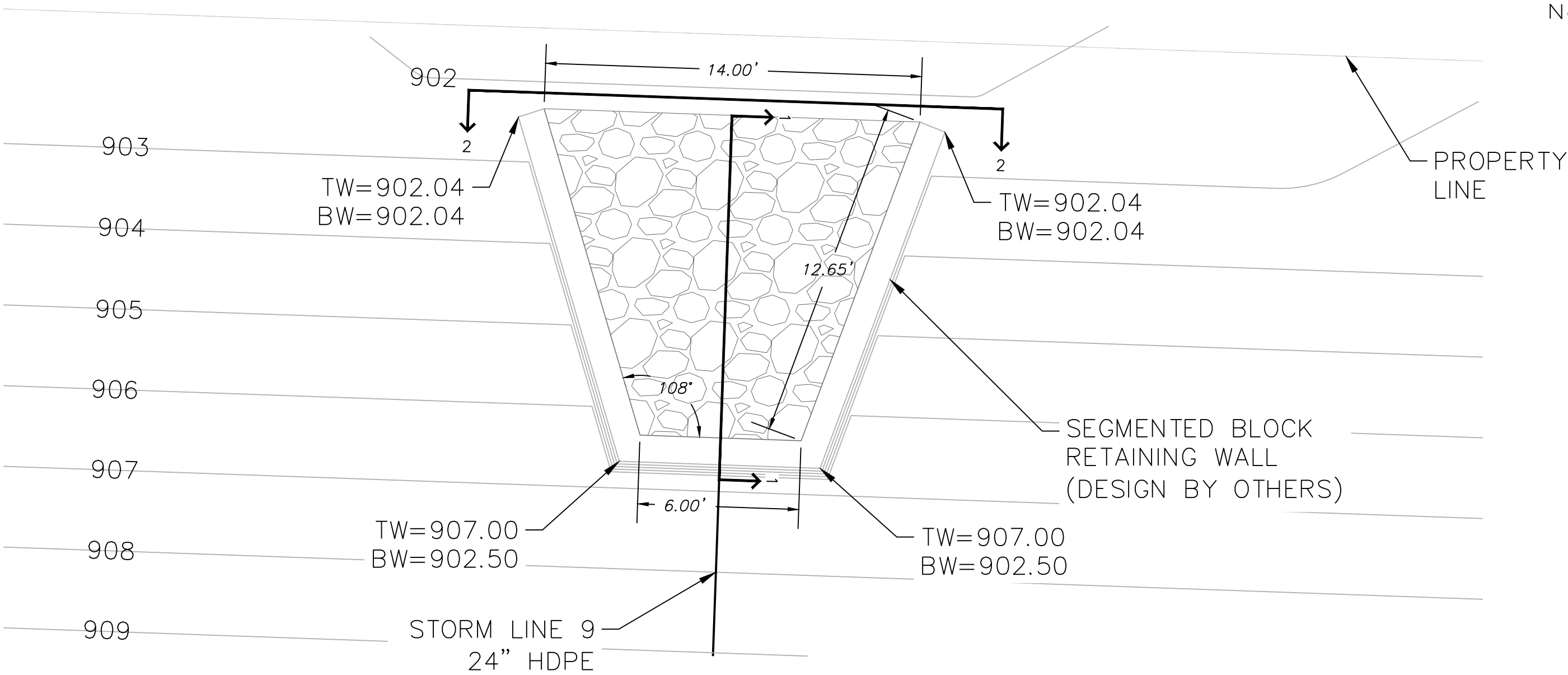
100 YEAR INLET																						
D.S. Str.	Str.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	InletDepth (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

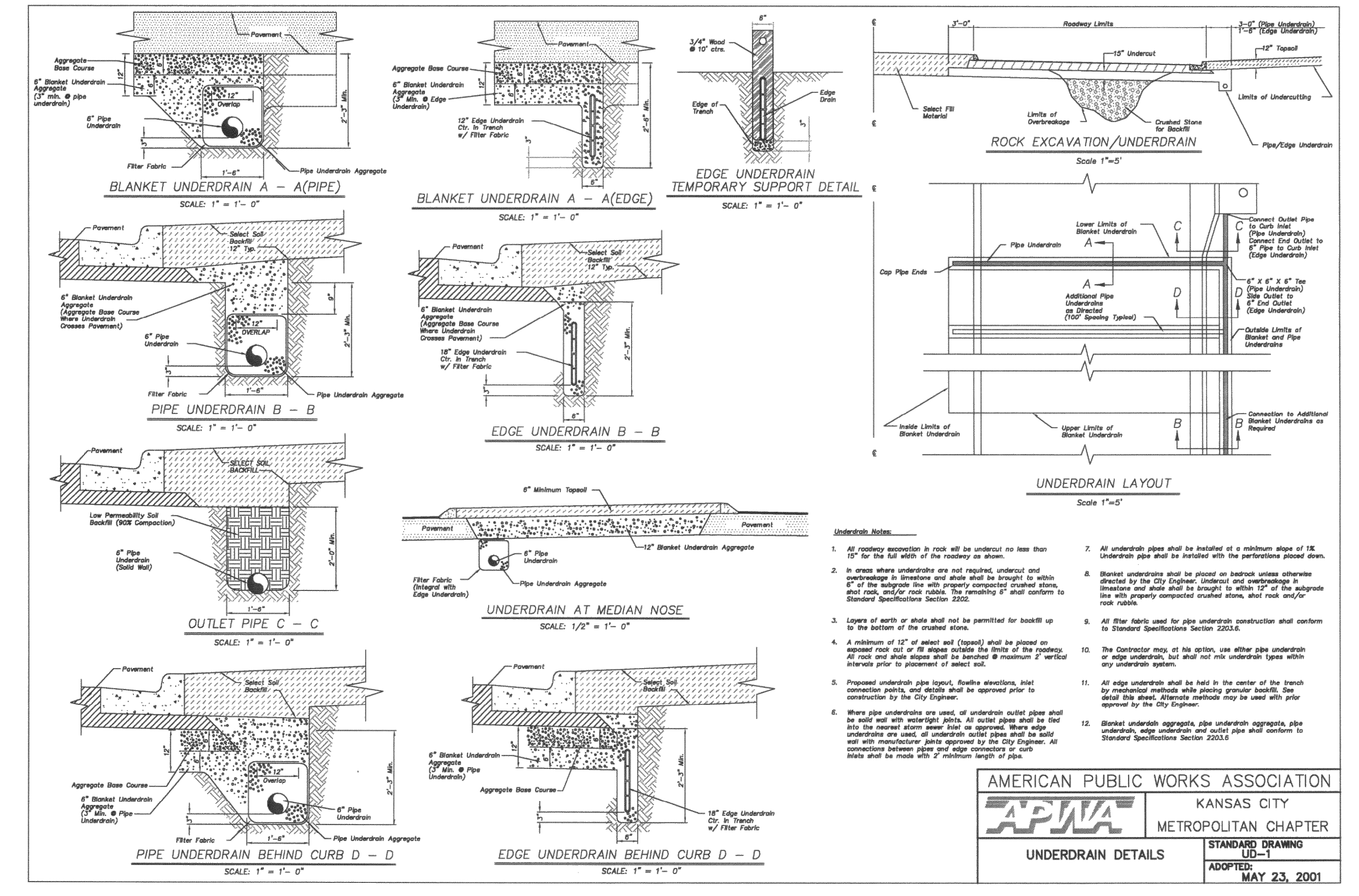
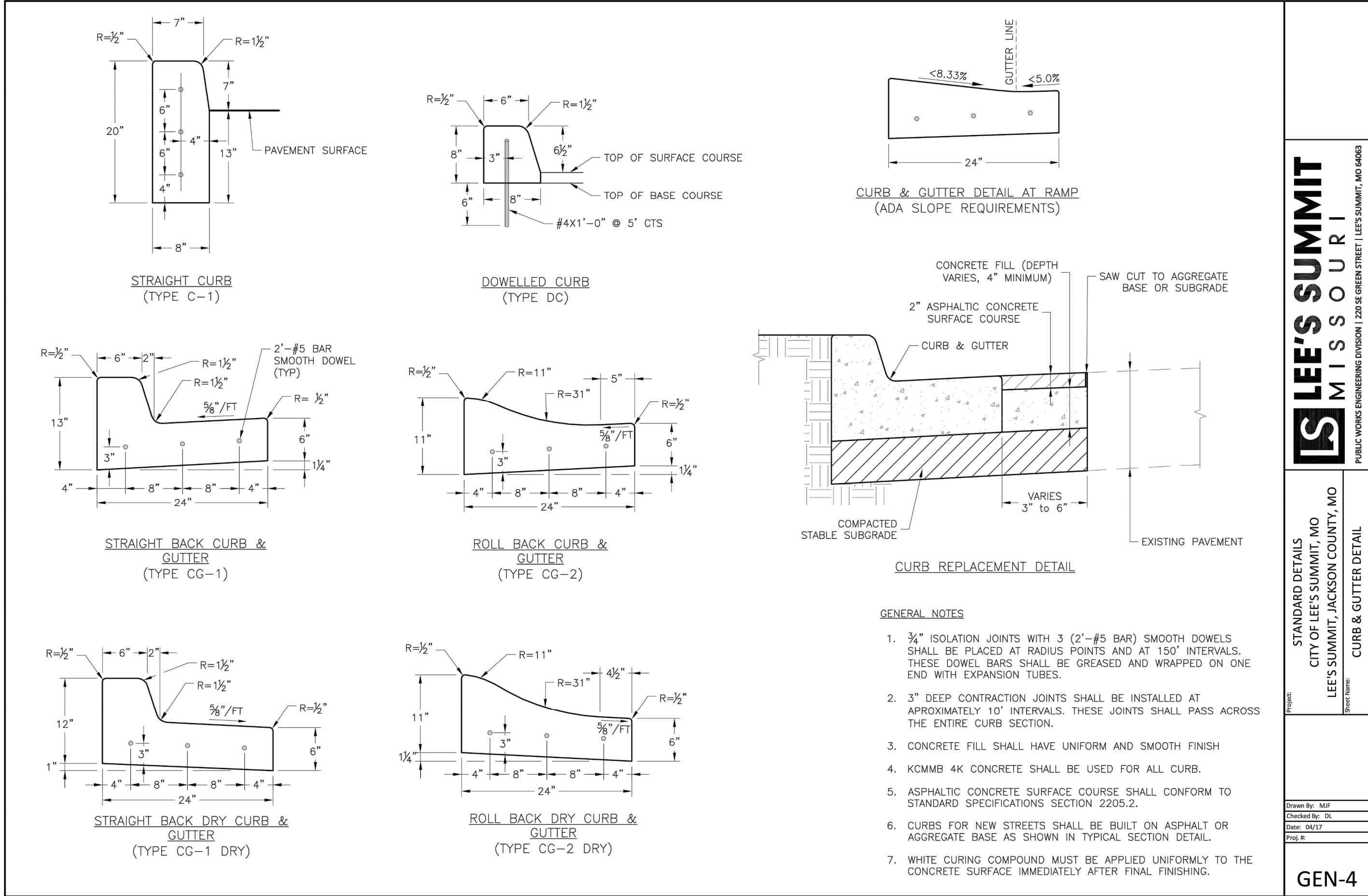


RETAINING WALL DESIGN DETAILS (RETAINING WALL AT OUTLET PIPE)



HEAD WALL PLAN
SCALE: 1" = 4'





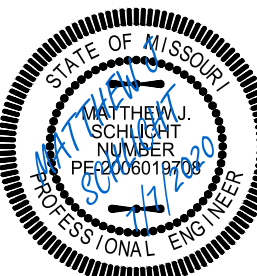
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Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500518-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

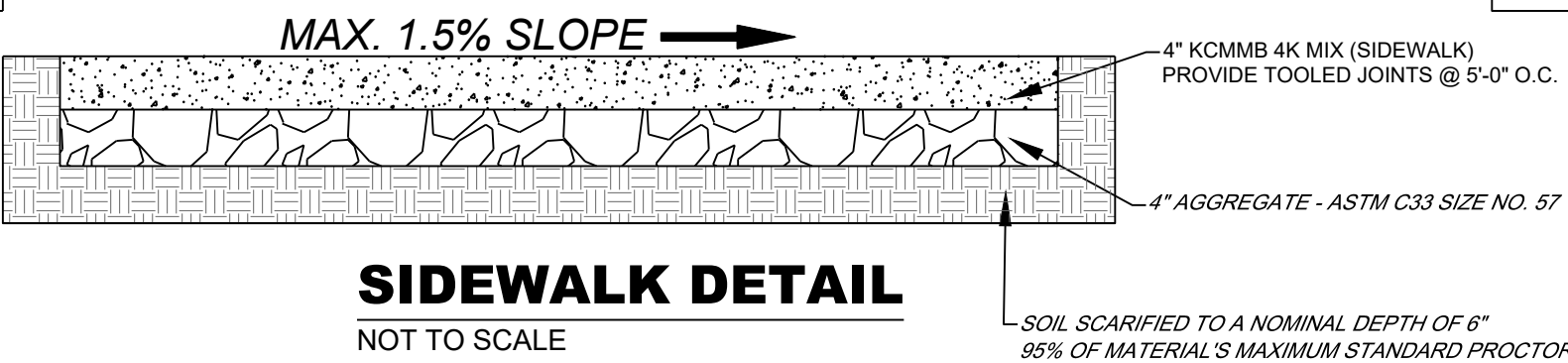
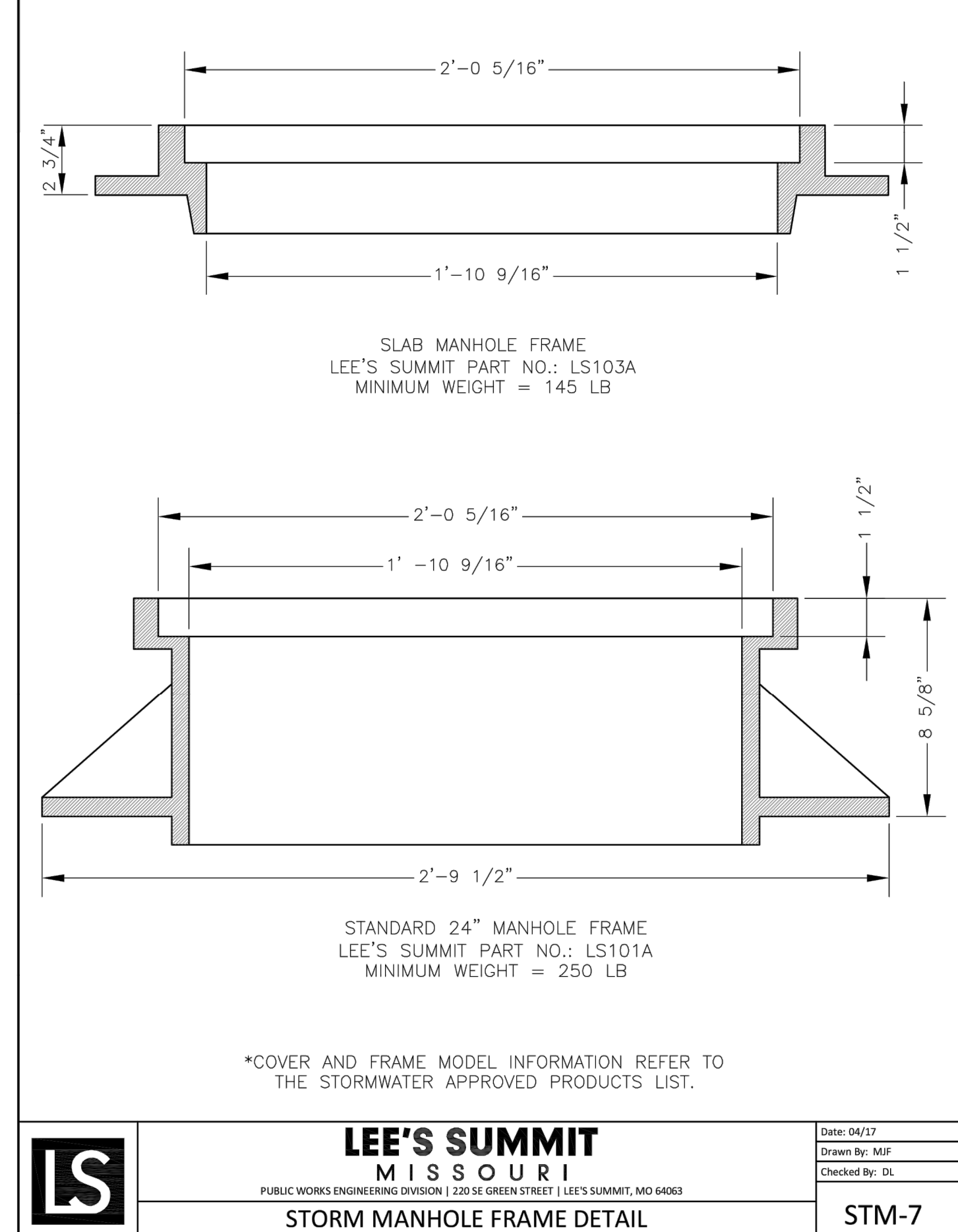
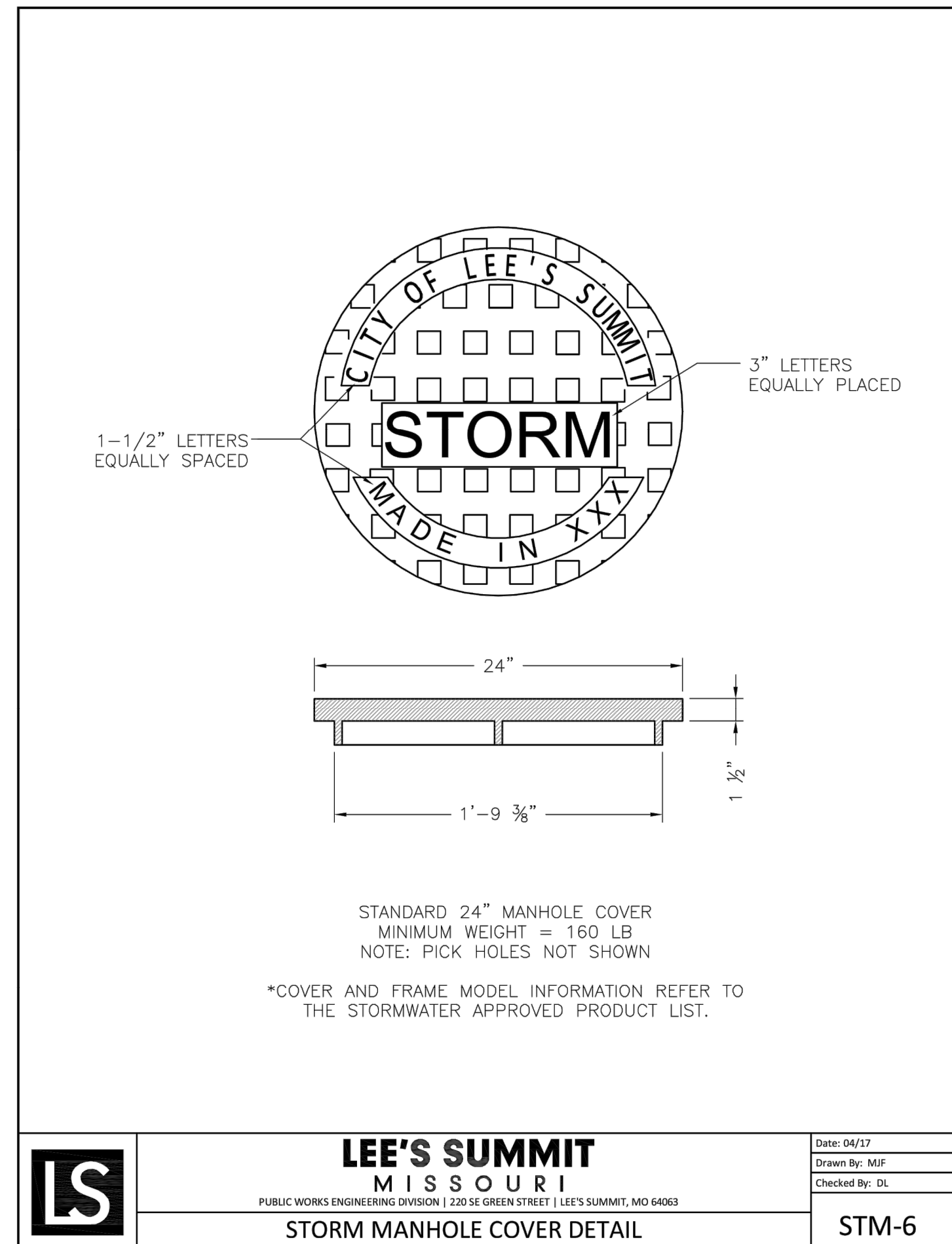
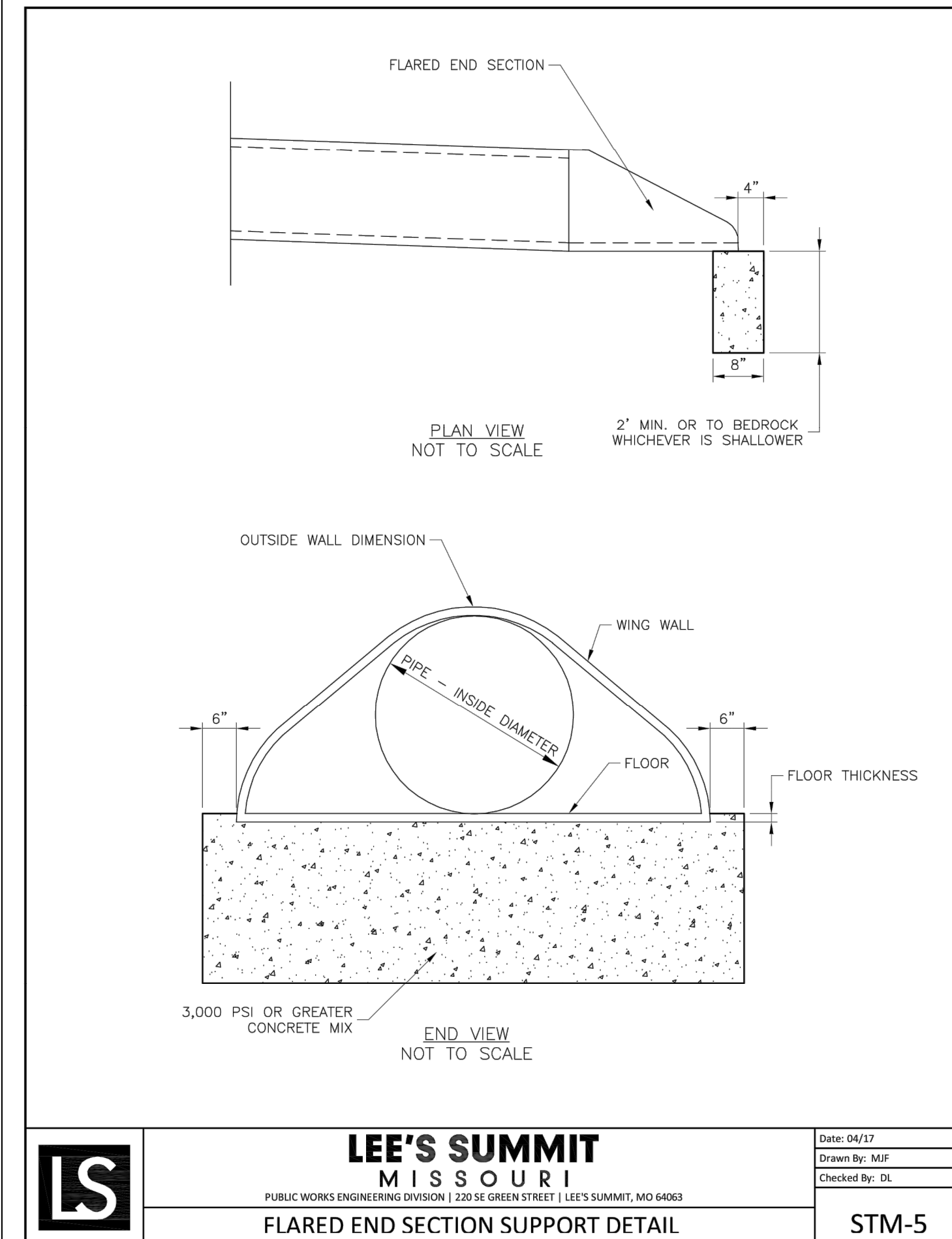
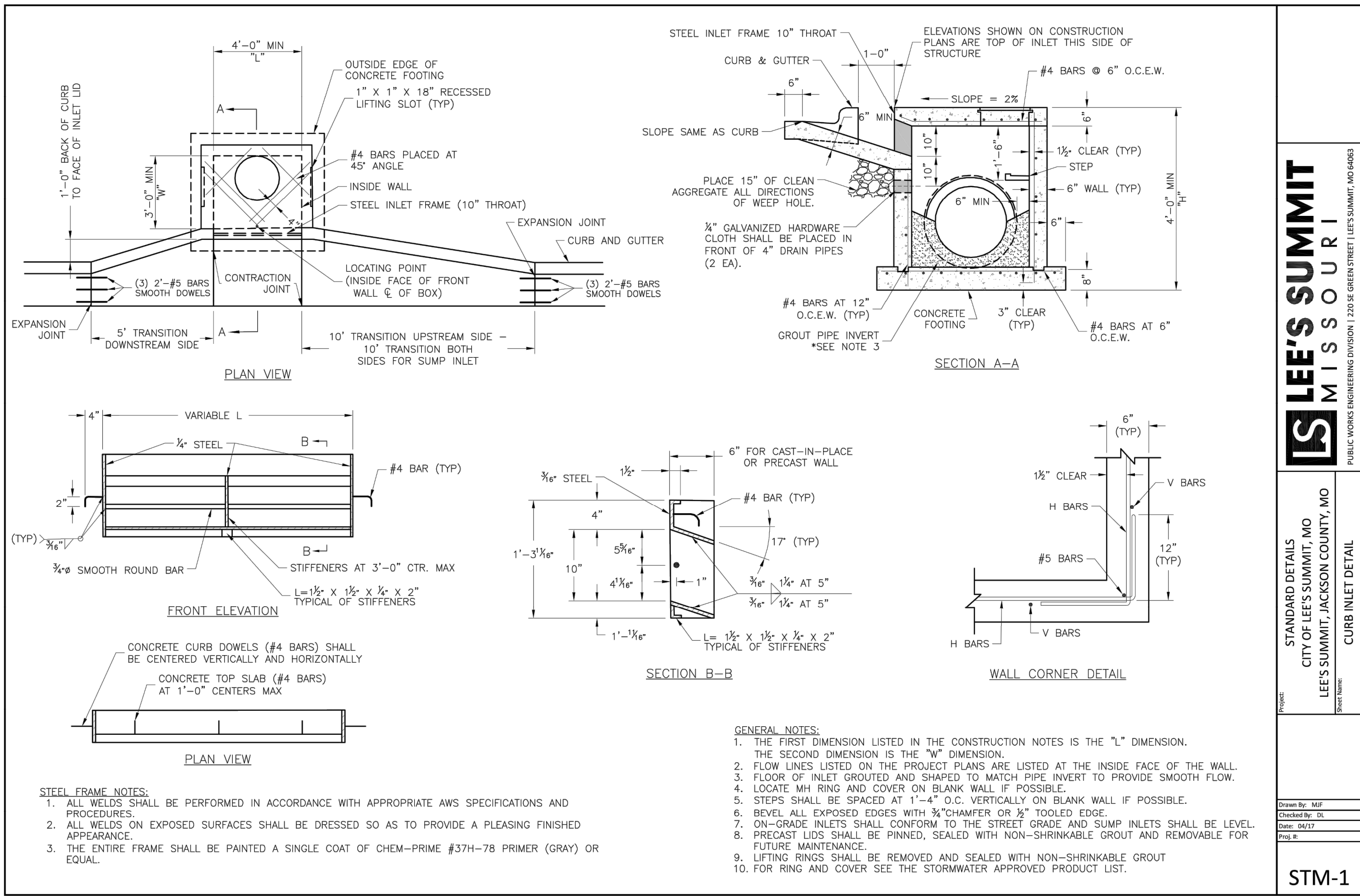
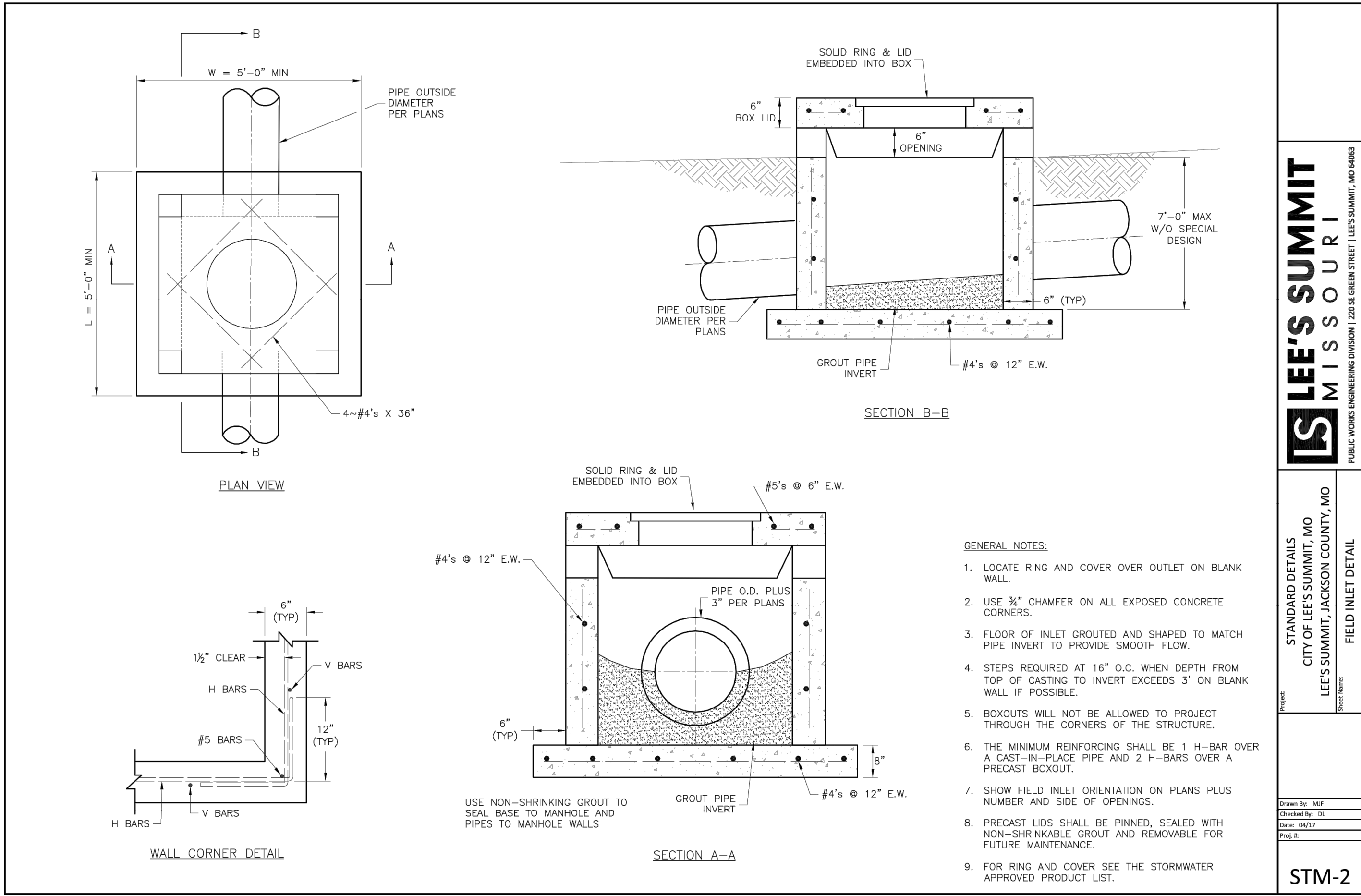
Project:
Monticello
Issue Date:
April 10, 2020

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

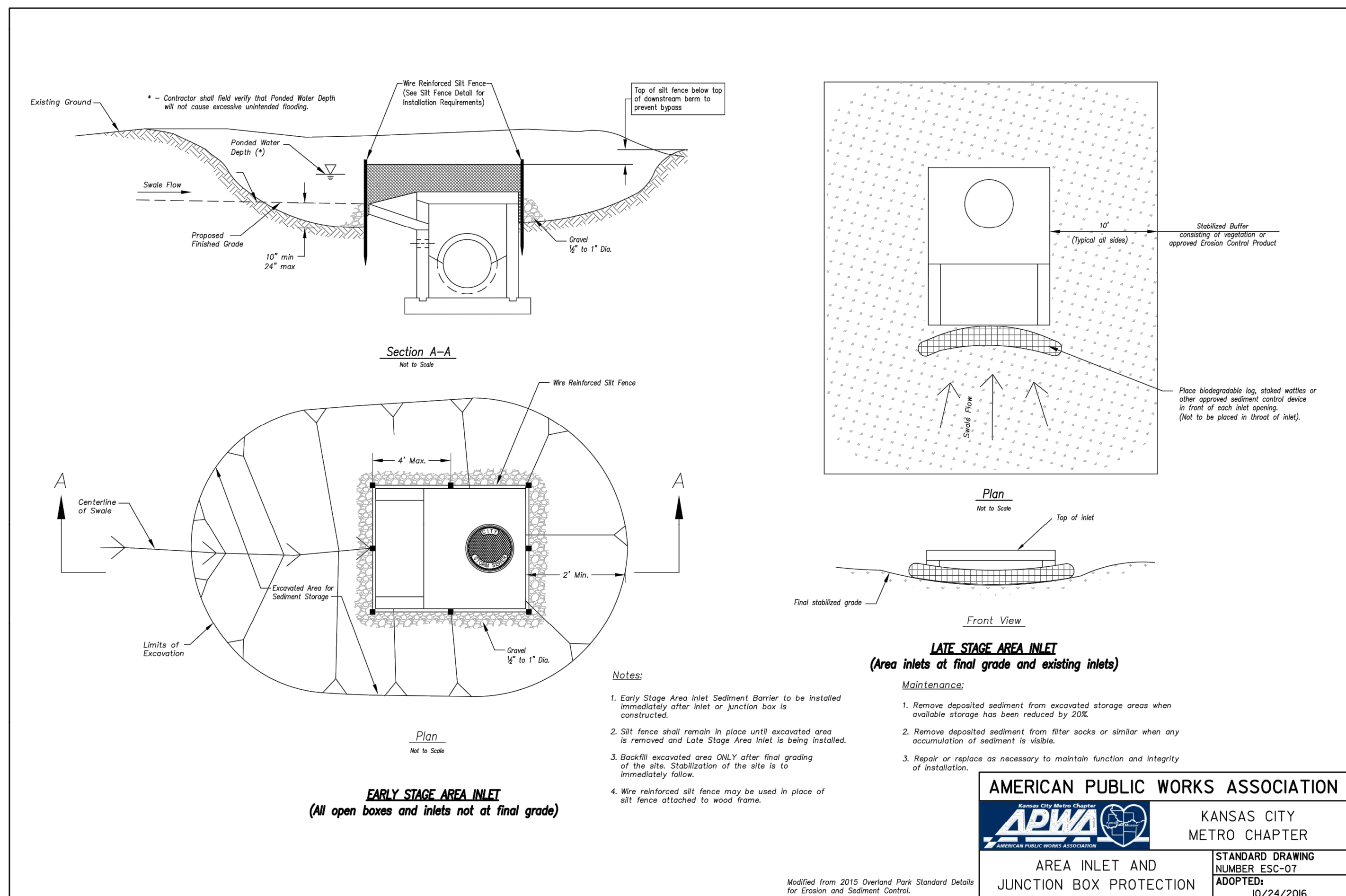
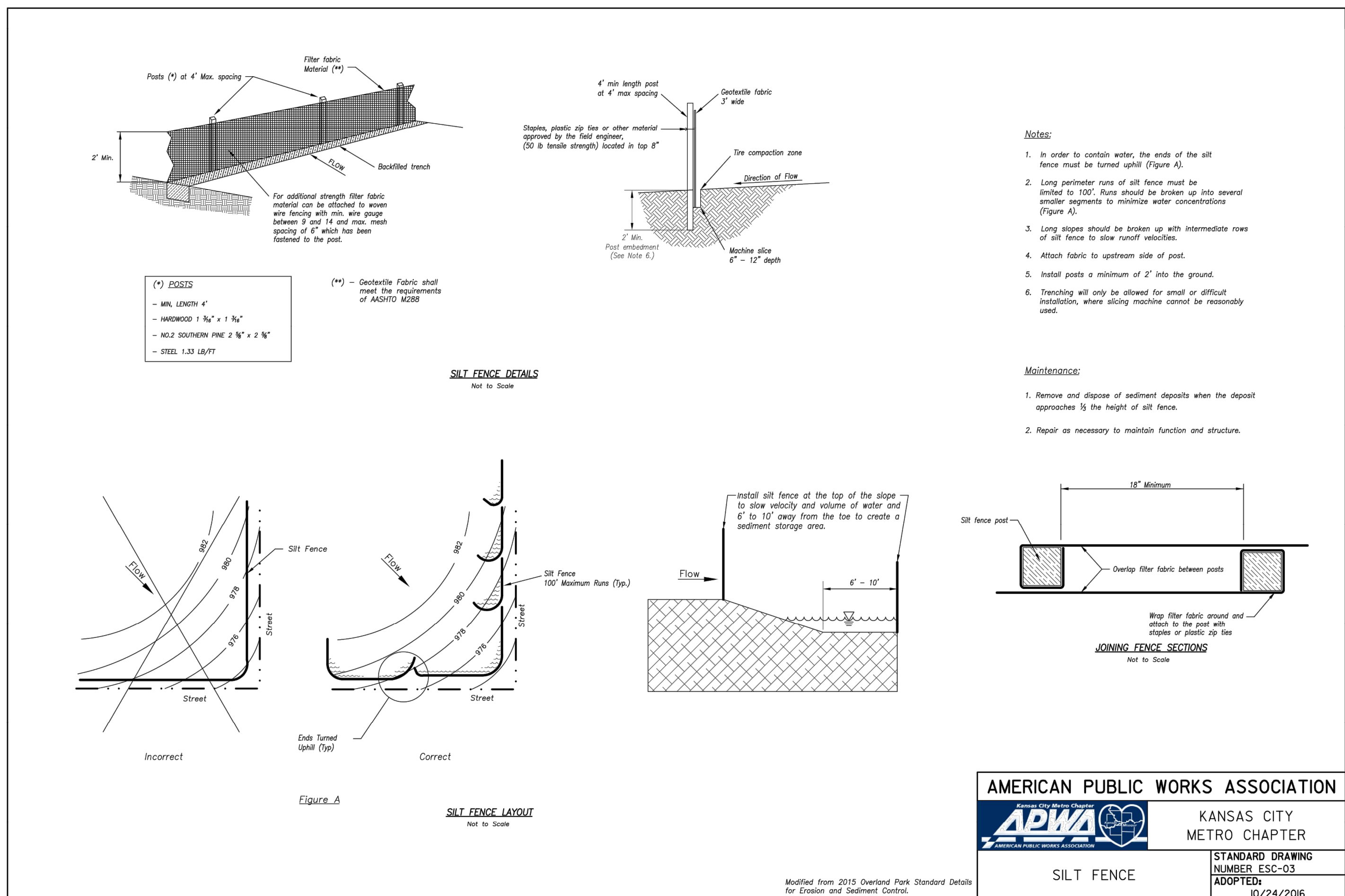
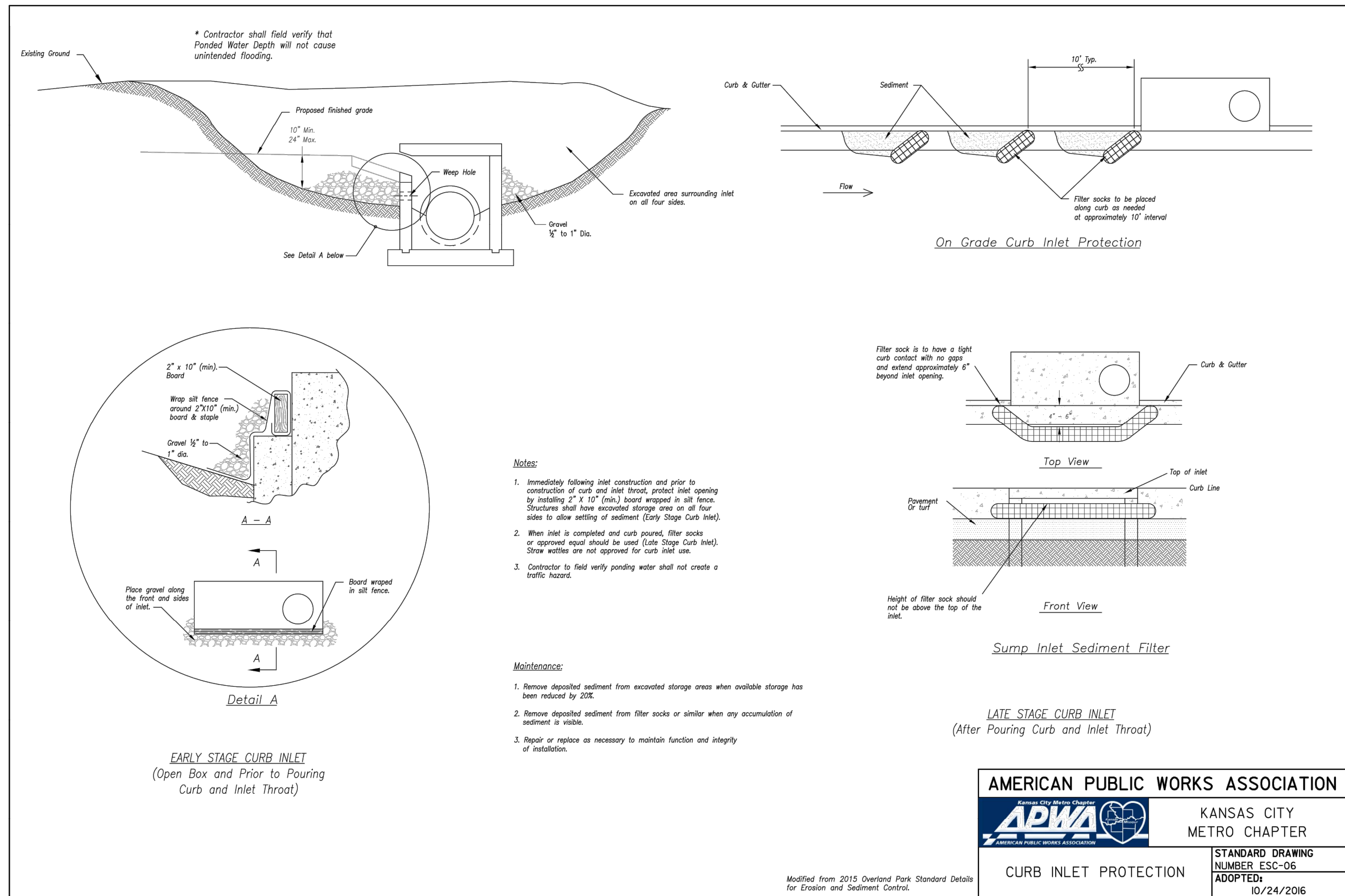
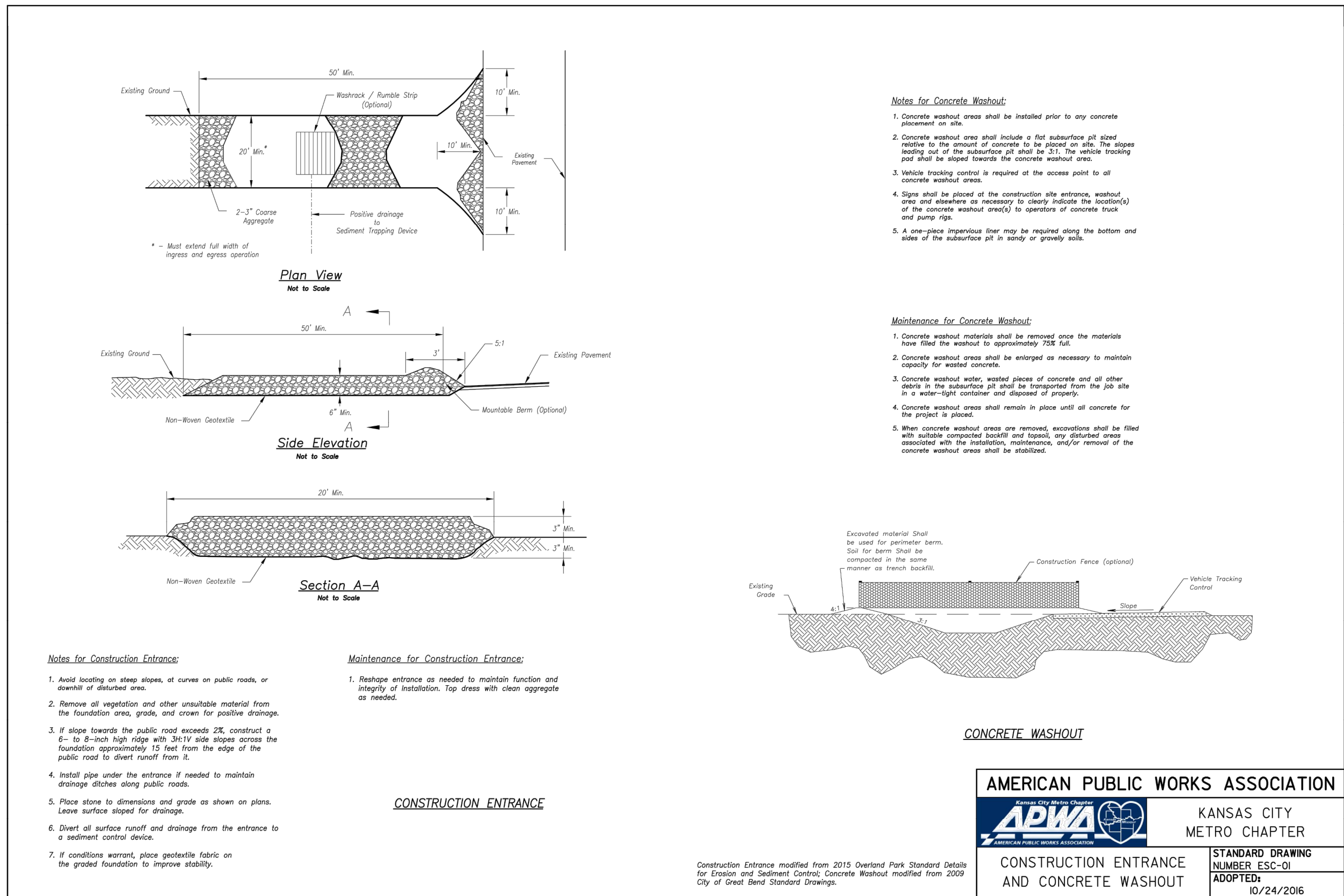


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 255226

REVISIONS
REV. 5/20/2020
REV. 6/19/2020
REV. 7/7/2020



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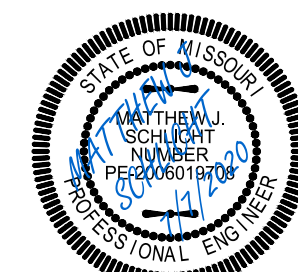
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Missouri
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Surveying 2005000519-D
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Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

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REV. 7/7/2020	