

VILLAGE AT VIEW HIGH CONSTRUCTION PLANS

PART OF THE NW 1/4, SECTION 03-T.47-R.32 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

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

COLLECTOR STREET FOR KESSLER DRIVE AND VILLAGE PARK DR.

- 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 - RESIDENTIAL LOCAL STREETS SHALL BE PER APWA STANDARD FOR 50' R/W TYPICAL SECTION TABLE LS-2 SECTION 5200 (RESIDENTIAL LOCAL STREET). RESIDENTIAL COLLECTOR STREETS SHALL BE PER APWA STANDARD FOR 60' R/W TYPICAL SECTION TABLE LS-2 SECTION 5200 (RESIDENTIAL COLLECTOR).

3 - STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

4 - 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 NOTIFY THE CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT AT 816.969.1900 AT LEAST 48 HOURS PRIOR TO CONNECTING TO ANY EXISTING WATER MAIN.

2 - ALL WATER MAINS SHALL COMPLY WITH ANSII/AWWA C150/A21.50 AND C151/A21.51, AND CITY OF LEE'S SUMMIT STANDARDS.

3 - 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).

4 - GATE VALVES SHALL BE MUELLER NO. A 2380-5 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.

5 - VALVE BOXES SHALL BE CLAY & BAILEY NO. P-108 OR CITY ENGINEER APPROVED EQUAL. ALL VALVE BOXES SHALL BE LOCATED OUT OF EXISTING OR PROPOSED PAVEMENT AREAS.

6 - 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.

7 - 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.

8 - 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 = 5 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.

GENERAL NOTES:

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

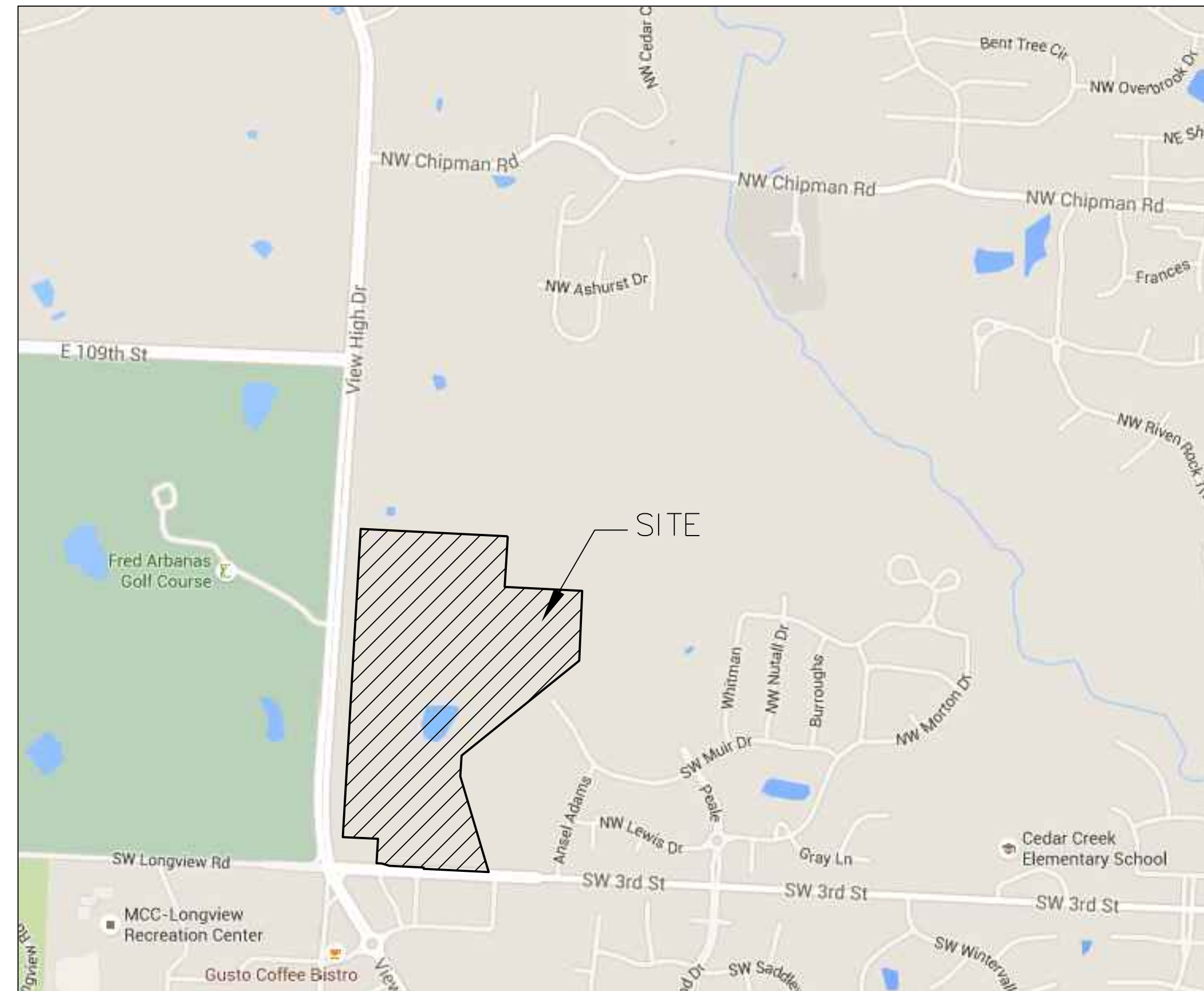
2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.

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 PUBLIC WORKS INSPECTION AT 816.969.1800 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.



SITE LOCATION MAP

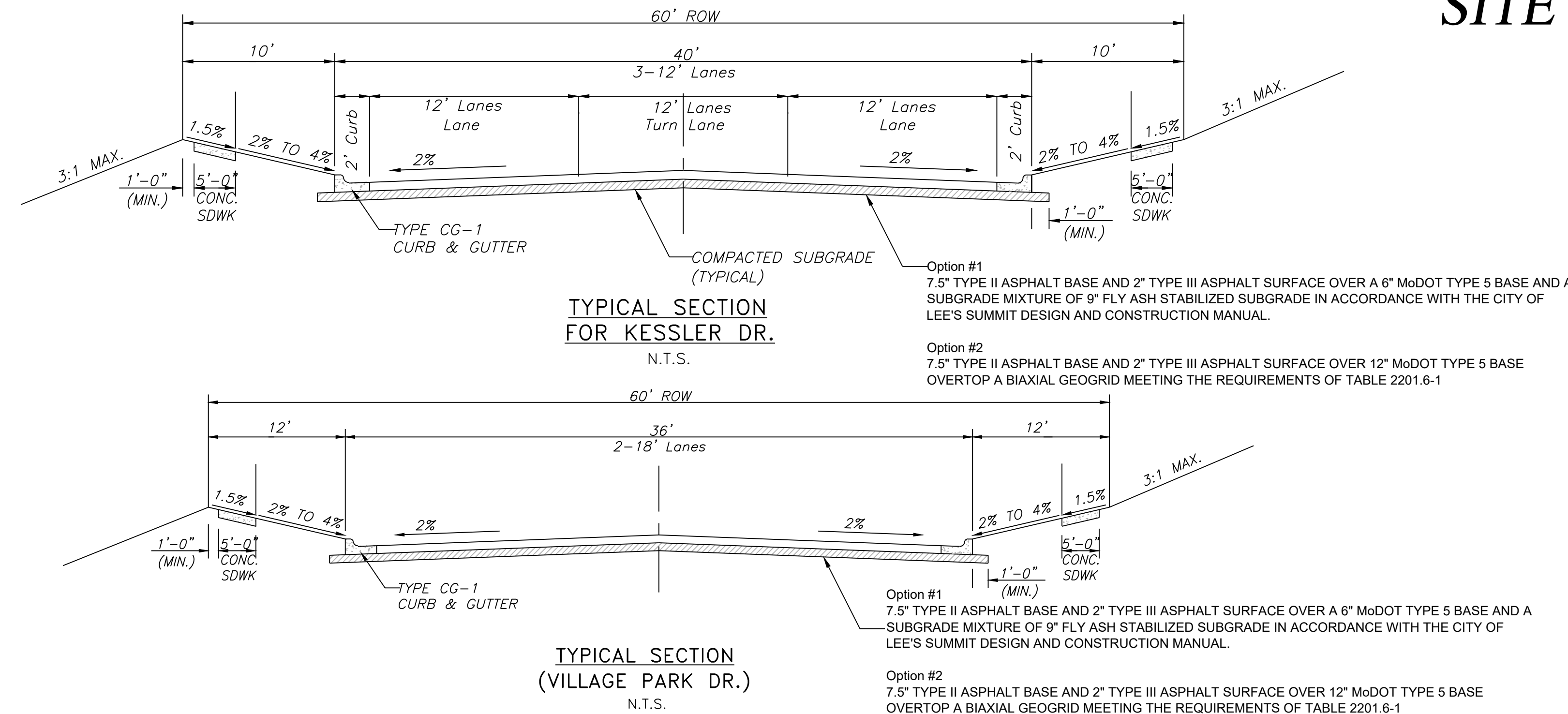
UTILITY COMPANIES:

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.

- KCP&L - 298-1196
- MISSOURI GAS ENERGY - 756-5261
- 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 PUBLIC WORKS INSPECTIONS - 969-1800
- CITY OF LEE'S SUMMIT WATER UTILITIES - 969-1900
- MISSOURI ONE CALL (DIG RITE) - 1-800-344-7483

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



INDEX OF SHEETS:

- C.001 - COVER SHEET
- C.050 - ESC PLAN 1 (PRE-CLEARING PLAN)
- C.051 - ESC PLAN 2 (INACTIVE STABILIZATION AREA PLAN)
- C.052 - ESC PLAN 3 (FINAL RESTORATION PLAN)
- C.100 - SITE PLAN
- C.200 - MASTER DRAINAGE PLAN SHEET 1 OF 2 GRADING PLAN
- C.201 - MASTER DRAINAGE PLAN SHEET 2 OF 2 DRAINAGE AREA MAP
- C.202 - STREET PLAN & PROFILE
- C.203 - STREET PLAN & PROFILE
- C.204 - INTERSECTION DETAILS & ADA RAMP PLAN
- C.205 - INTERSECTION DETAILS & ADA RAMP PLAN
- C.206 - DETENTION / BMP PLAN
- C.207 - TRAFFIC CONTROL DETAILS
- C.208 - TRAFFIC CONTROL DETAILS
- C.300 - STORM SEWER GENERAL LAYOUT
- C.301 - STORM SEWER PLAN & PROFILE
- C.302 - STORM SEWER PLAN & PROFILE
- C.303 - STORM SEWER PLAN & PROFILE
- C.304 - STORM SEWER PLAN & PROFILE

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.

CITY OF LEE'S SUMMIT, MISSOURI

APPROVED: _____ DATE: _____

BY: _____
CITY ENGINEER

"AS-BUILT"

900.10
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Professional Registration
Missouri
Engineering 2005002186-D
Surveying 200500319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

Cover Sheet
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

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

REVISIONS
11/22/19 As-Built



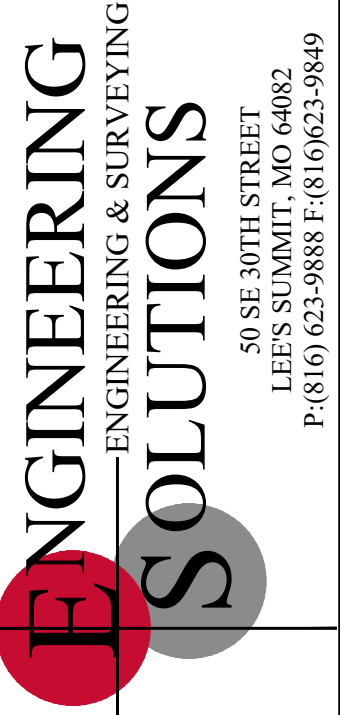
PRE CLEARING PLAN
SCALE: 1" = 100'

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.

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.

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Professional Registration
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Engineering 200502188-D
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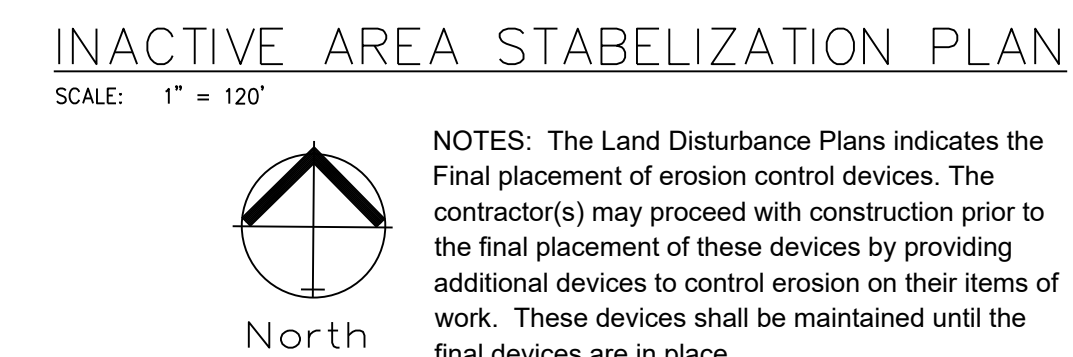
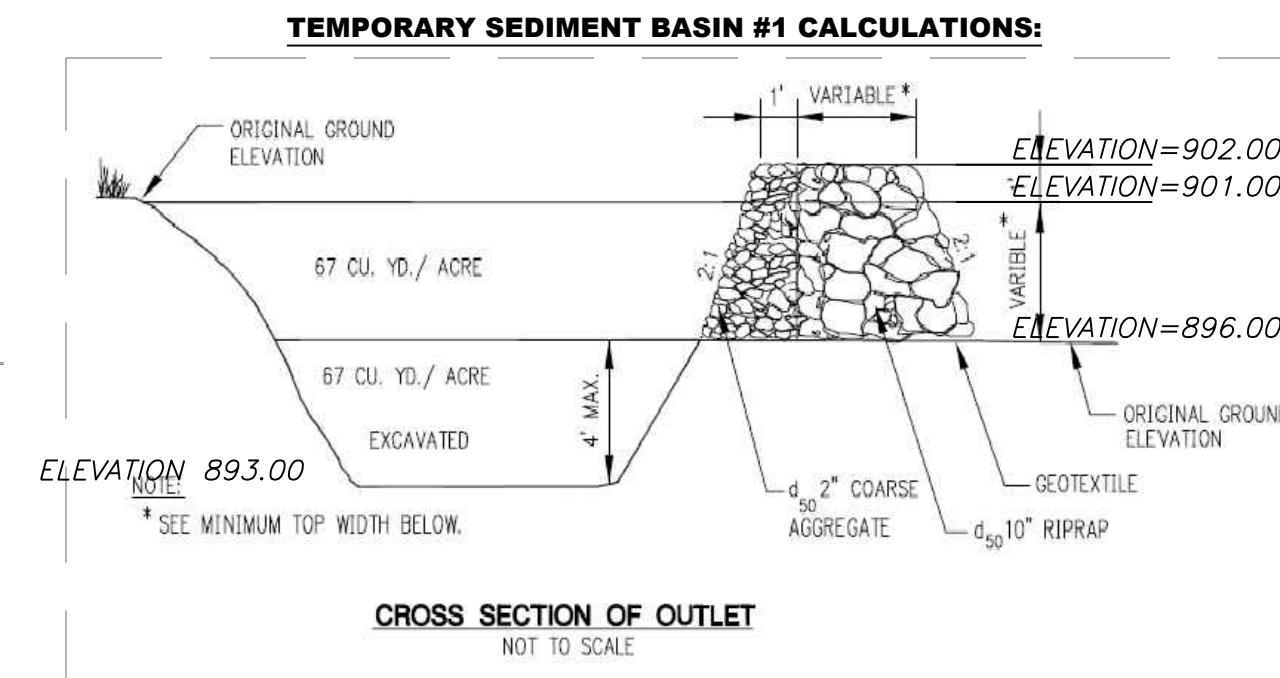
Pre-Clearing Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

Pre-Clearing Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
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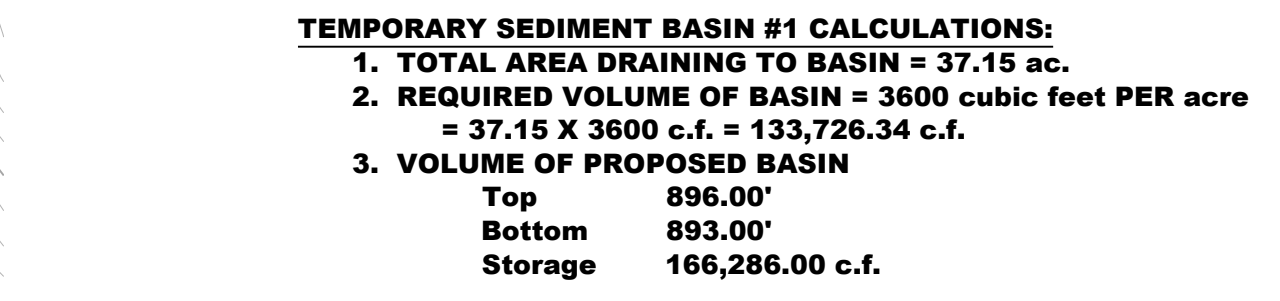
REVISIONS
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MAINTENANCE:
TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:
SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED 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 SEED 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 SEEDING 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.
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.

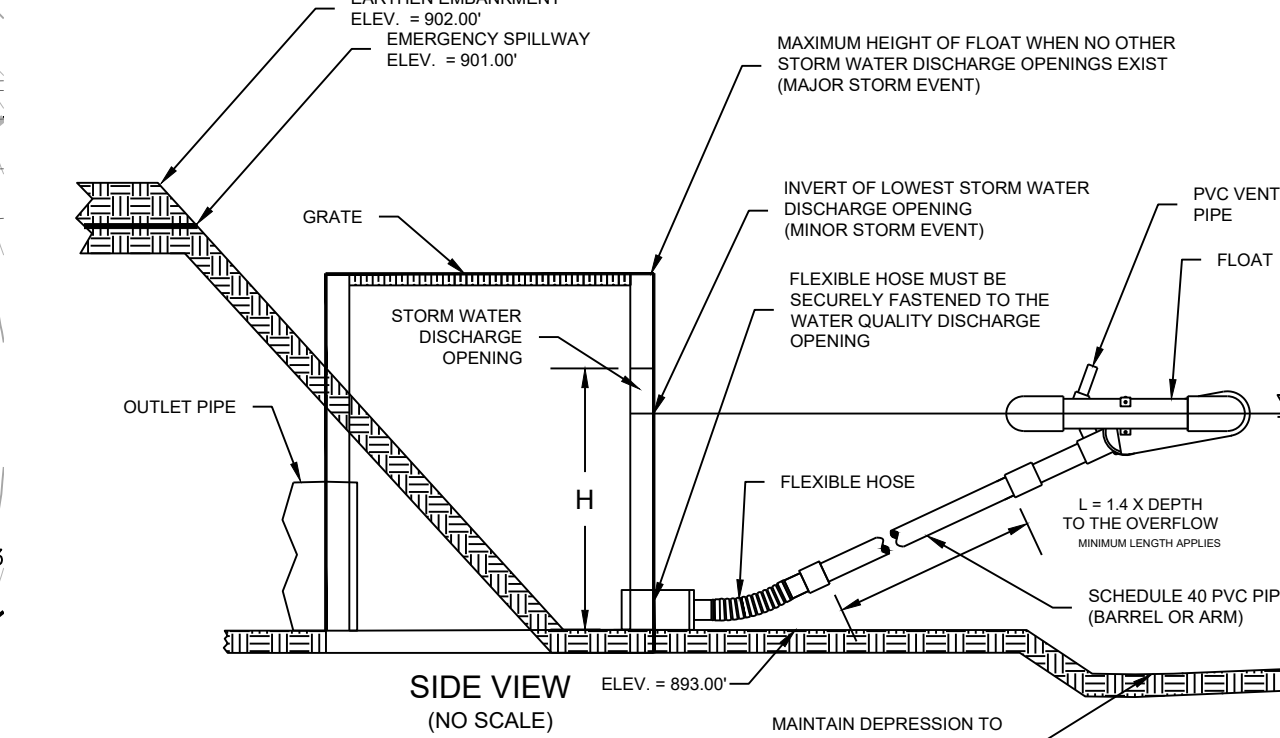


EROSION CONTROL DESCRIPTION:

- SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN

EROSION CONTROL PROCEDURE:

- 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.



TEMPORARY CONSTRUCTION ENTRANCE NOTES:

A) INSTALLATION

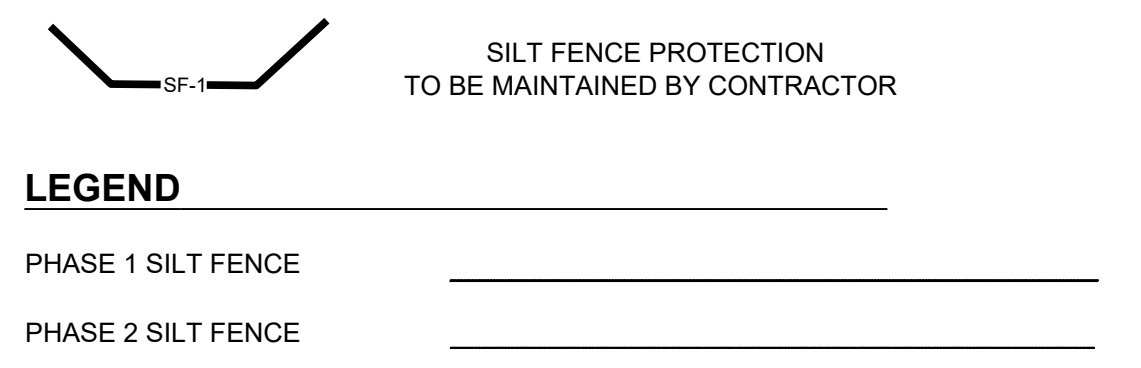
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED
- REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA. GRADE AND CROWN FOR POSITIVE DRAINAGE
- IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2% 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.
- INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS
- PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE
- IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY

B) TROUBLESHOOTING

- 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

C) INSPECTION AND MAINTENANCE

- INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
- RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL
- TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
- IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
- REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED



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

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FINAL RESTORATION PLAN

SCALE: 1" = 100'



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.



Professional Registration
 Missouri
 Engineering 200502188-D
 Surveying 20050819-D
 Kansas
 Engineering E-1695
 Surveying LS-218
 Oklahoma
 Engineering 62-4
 Nebraska
 Engineering CA2821

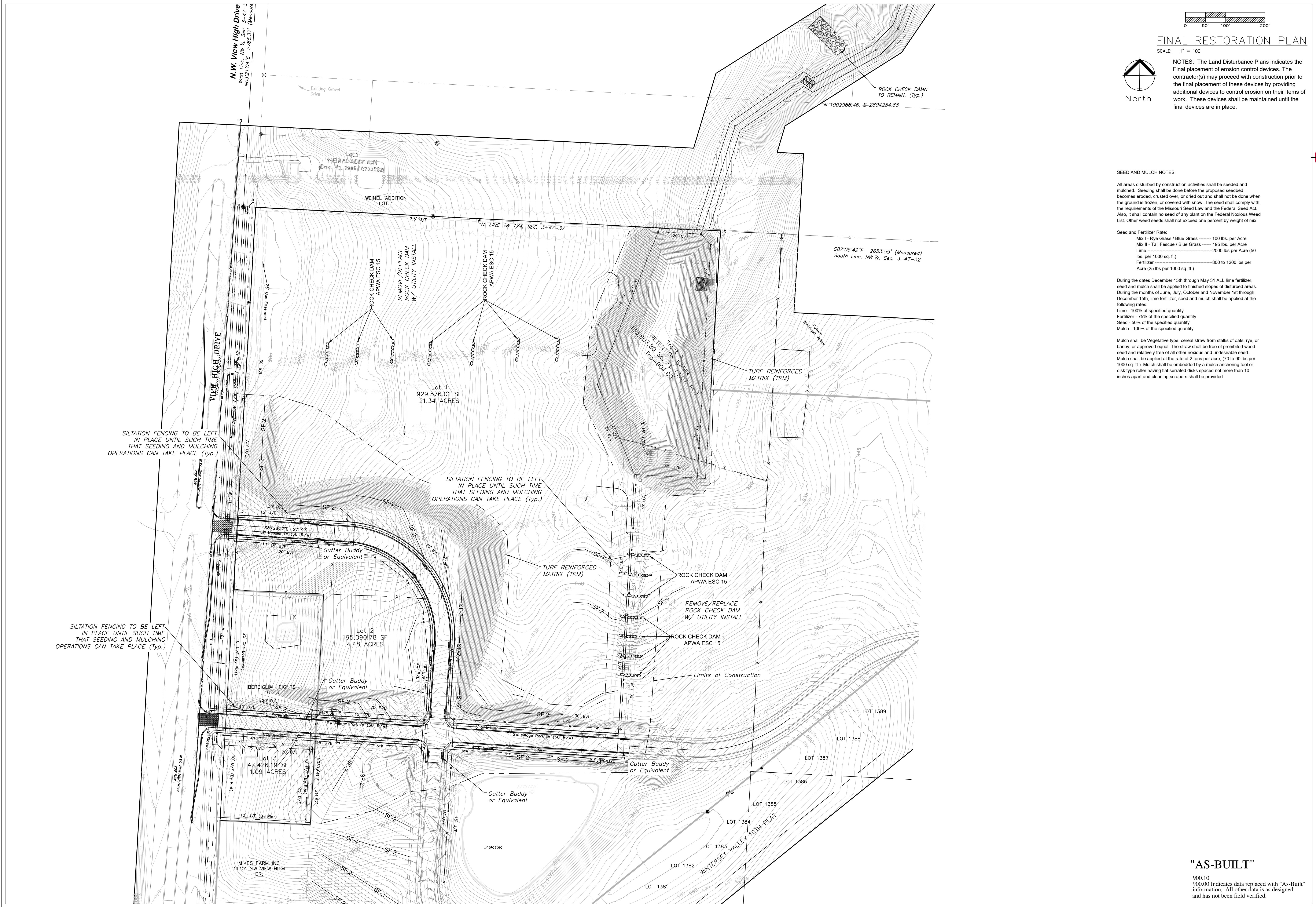
Village At View High
 Lee's Summit, Jackson County, Missouri

Project:
 View High Project
 Issue Date:
 November 22, 2019

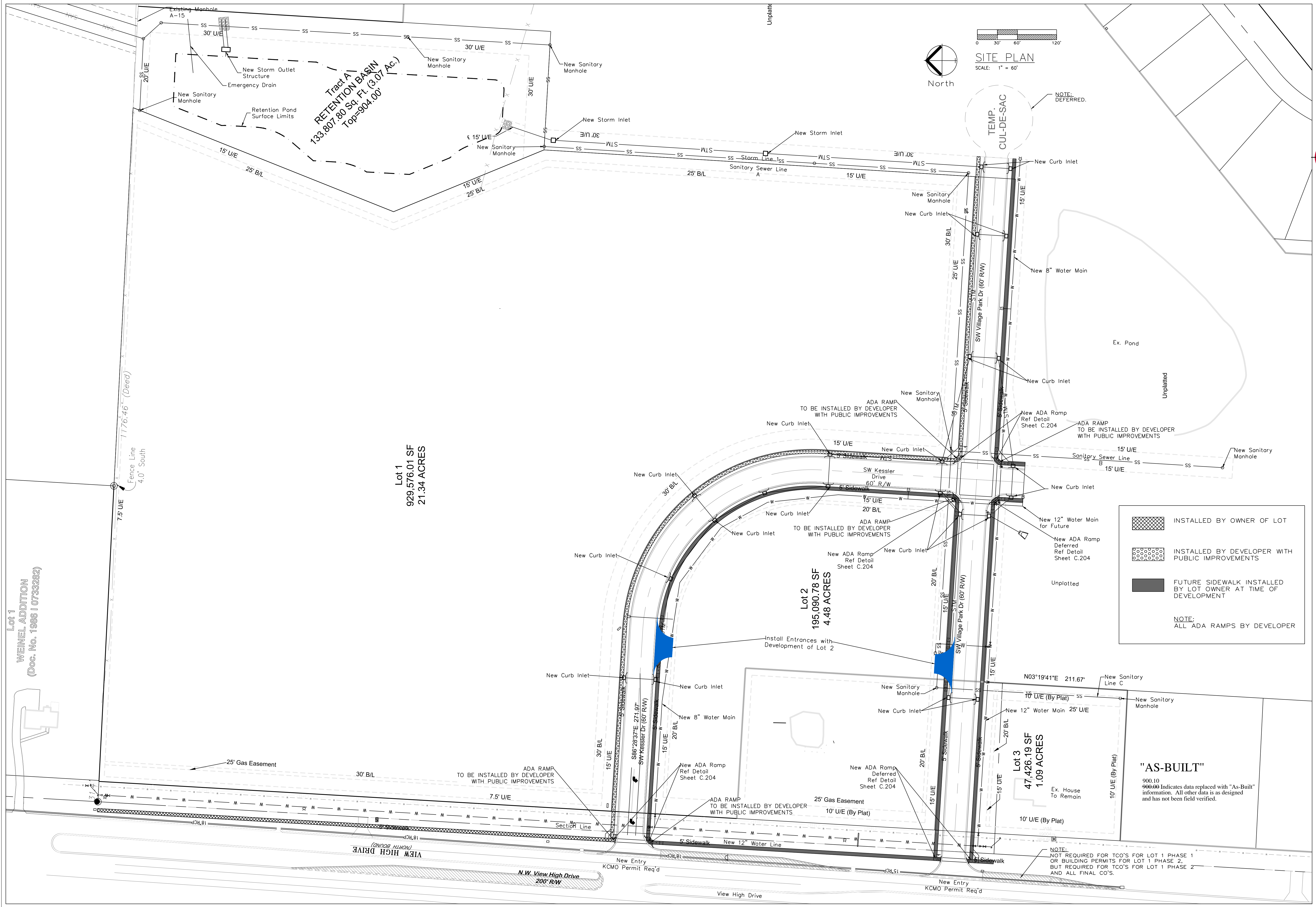
Final Restoration Plan
 Construction Plans for:
 Village at View High
 Lee's Summit, Jackson County, Missouri

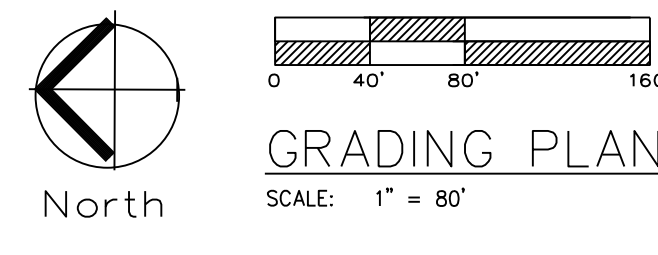
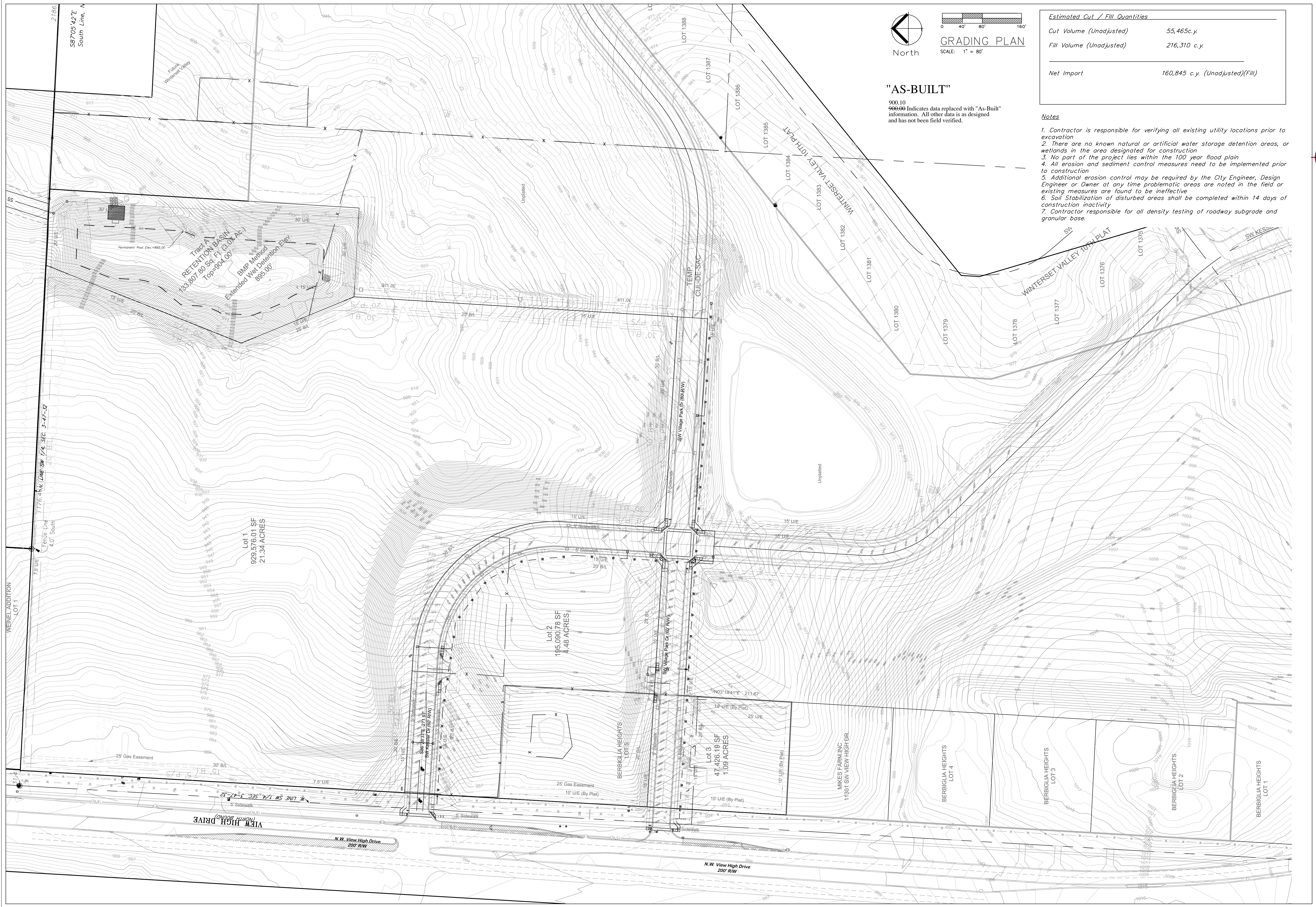
Matthew J. Schlicht
 MO PE 2006019708
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REVISIONS
 11/22/19 As-Built



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Estimated Cut / Fill Quantities	
Cut Volume (Unadjusted)	55,465c.y.
Fill Volume (Unadjusted)	216,310 c.y.
Net Import	160,845 c.y. (Unadjusted)(Fill)

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- 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.



Professional Registration
 Missouri
 Engineering 200502188-D
 Surveying 2005031818-D
 Kansas
 Engineering E-1895
 Surveying LS-218
 Oklahoma
 Engineering 62-4
 Nebraska
 Engineering CA2821

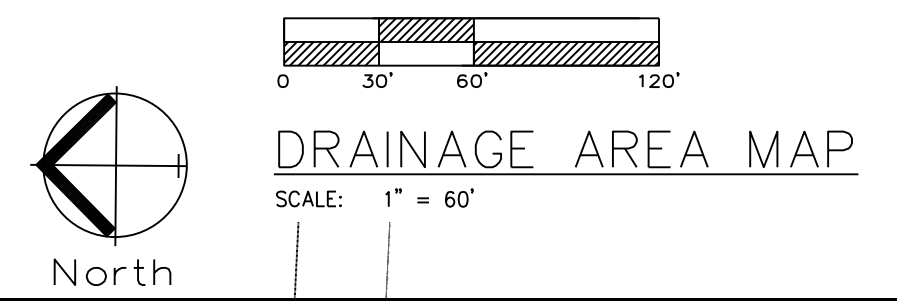
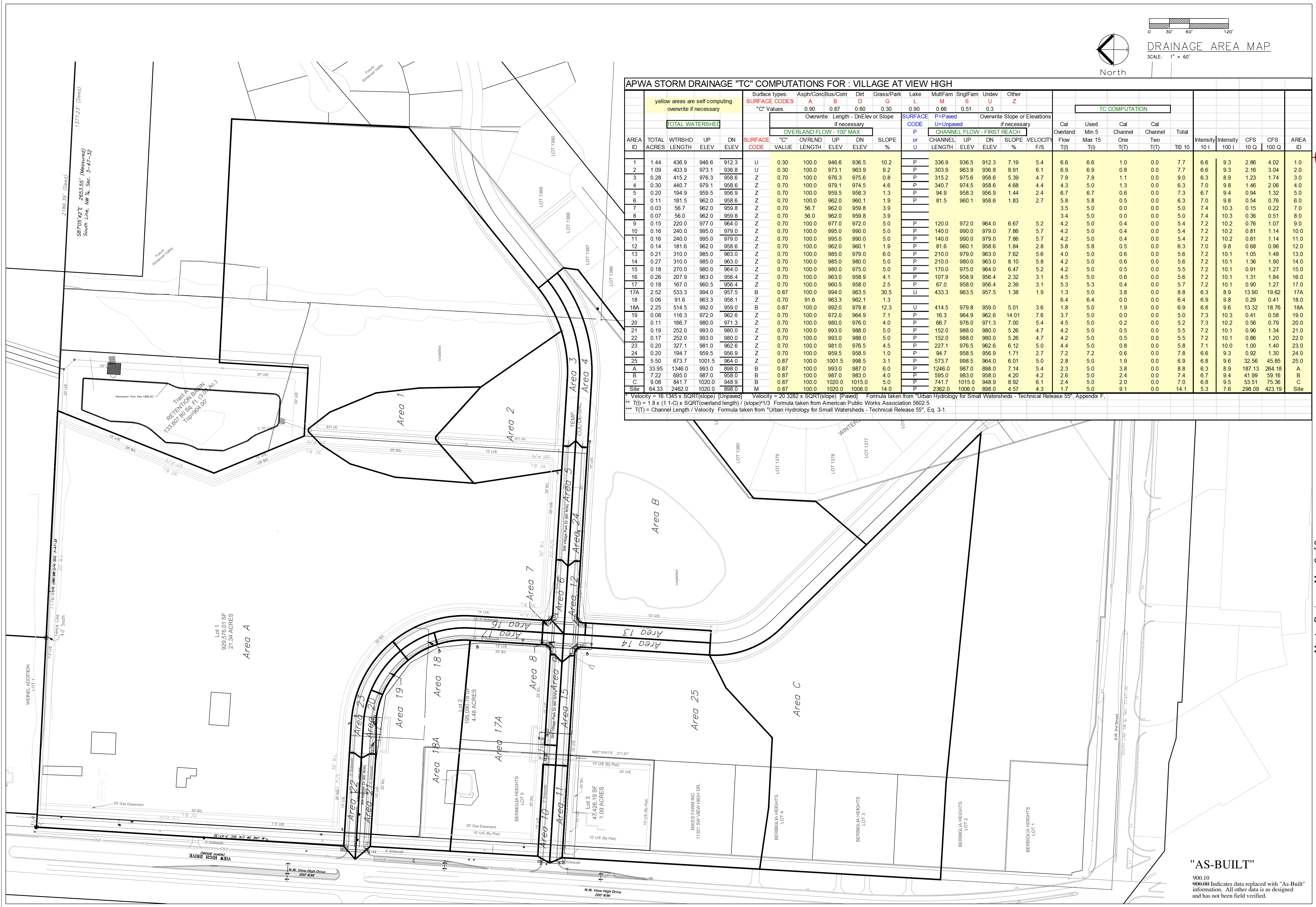
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Grading Plan
 Construction Plans for:
 Village at View High
 Lee's Summit, Jackson County, Missouri

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REVISIONS
 11/22/19 As-Built



APWA STORM DRAINAGE "TC" COMPUTATIONS FOR : VILLAGE AT VIEW HIGH

AREA ID	TOTAL ACRES	WTRSHD LENGTH	UP ELEV	DN ELEV	SURFACE CODE	Surface types:					TC COMPUTATION					AREA ID										
						A	B	C	D	G	L	M	S	U	Z		Cal Overland	Used Min 5	Cal Channel One	Cal Channel Two	Total	Intensity 10 I	Intensity 100 I	CFS 10 Q	CFS 100 Q	
1	1.44	436.9	946.6	912.3	U	0.30	100.0	946.6	936.5	10.2	P	336.9	936.5	912.3	7.19	5.4	6.6	6.6	1.0	0.0	7.7	6.6	9.3	2.86	4.02	1.0
2	1.09	403.9	973.1	936.8	U	0.30	100.0	973.1	963.9	9.2	P	303.9	963.9	936.8	8.91	6.1	6.9	6.9	0.8	0.0	7.7	6.6	9.3	2.16	3.04	2.0
3	0.28	415.2	976.3	958.6	Z	0.70	100.0	976.3	975.6	0.8	P	315.2	975.6	958.6	5.39	4.7	7.9	7.9	1.1	0.0	9.0	6.3	8.9	1.23	1.74	3.0
4	0.30	440.7	979.1	958.6	Z	0.70	100.0	979.1	974.5	4.6	P	340.7	974.5	958.6	4.68	4.4	4.3	5.0	1.3	0.0	6.3	7.0	9.8	1.46	2.06	4.0
5	0.20	194.9	959.5	956.9	Z	0.70	100.0	959.5	958.3	1.3	P	94.9	958.3	956.9	1.44	2.4	6.7	6.7	0.6	0.0	7.3	6.7	9.4	0.94	1.32	5.0
6	0.11	181.5	962.0	958.6	Z	0.70	100.0	962.0	960.1	1.9	P	81.5	960.1	958.6	1.83	2.7	5.8	5.8	0.5	0.0	6.3	7.0	9.8	0.54	0.76	6.0
7	0.03	56.7	962.0	959.8	Z	0.70	56.7	962.0	959.8	3.9	P						3.5	5.0	0.0	0.0	5.0	7.4	10.3	0.15	0.22	7.0
8	0.07	56.0	962.0	959.8	Z	0.70	56.0	962.0	959.8	3.9	P						3.4	5.0	0.0	0.0	5.0	7.4	10.3	0.36	0.51	8.0
9	0.15	220.0	977.0	964.0	Z	0.70	100.0	977.0	972.0	5.0	P	120.0	972.0	964.0	6.67	5.2	4.2	5.0	0.4	0.0	5.4	7.2	10.2	0.76	1.07	9.0
10	0.16	240.0	995.0	979.0	Z	0.70	100.0	995.0	990.0	5.0	P	140.0	990.0	979.0	7.86	5.7	4.2	5.0	0.4	0.0	5.4	7.2	10.2	0.81	1.14	10.0
11	0.16	240.0	995.0	979.0	Z	0.70	100.0	995.0	990.0	5.0	P	140.0	990.0	979.0	7.86	5.7	4.2	5.0	0.4	0.0	5.4	7.2	10.2	0.81	1.14	11.0
12	0.14	181.6	962.0	958.6	Z	0.70	100.0	962.0	960.1	1.9	P	81.6	960.1	958.6	1.84	2.8	5.8	5.8	0.5	0.0	6.3	7.0	9.8	0.68	0.96	12.0
13	0.21	310.0	985.0	963.0	Z	0.70	100.0	985.0	979.0	6.0	P	210.0	979.0	963.0	7.62	5.6	4.0	5.0	0.6	0.0	5.6	7.2	10.1	1.05	1.48	13.0
14	0.27	310.0	985.0	963.0	Z	0.70	100.0	985.0	980.0	5.0	P	210.0	980.0	963.0	8.10	5.8	4.2	5.0	0.6	0.0	5.6	7.2	10.1	1.36	1.90	14.0
15	0.18	270.0	980.0	964.0	Z	0.70	100.0	980.0	975.0	5.0	P	170.0	975.0	964.0	6.47	5.2	4.2	5.0	0.5	0.0	5.5	7.2	10.1	0.91	1.27	15.0
16	0.26	207.9	963.0	956.4	Z	0.70	100.0	963.0	958.9	4.1	P	107.9	958.9	956.4	2.32	3.1	4.5	5.0	0.6	0.0	5.6	7.2	10.1	1.31	1.84	16.0
17	0.18	167.0	960.5	956.4	Z	0.70	100.0	960.5	958.0	2.5	P	67.0	958.0	956.4	2.39	3.1	5.3	5.3	0.4	0.0	5.7	7.2	10.1	0.90	1.27	17.0
17A	2.52	533.3	994.0	957.5	B	0.87	100.0	994.0	963.5	30.5	U	433.3	963.5	957.5	1.38	1.9	1.3	5.0	3.8	0.0	8.8	6.3	8.9	13.90	19.62	17A
18	0.06	91.6	963.3	958.1	Z	0.70	91.6	963.3	962.1	1.3	P						6.4	6.4	0.0	0.0	6.4	6.9	9.8	0.29	0.41	18.0
18A	2.25	514.5	992.0	959.0	B	0.87	100.0	992.0	979.8	12.3	U	414.5	979.8	959.0	5.01	3.6	1.8	5.0	1.9	0.0	6.9	6.8	9.6	13.32	18.76	18A
19	0.08	116.3	972.0	962.6	Z	0.70	100.0	972.0	964.9	7.1	P	16.3	964.9	962.6	14.01	7.6	3.7	5.0	0.0	0.0	5.0	7.3	10.3	0.41	0.58	19.0
20	0.11	166.7	980.0	971.3	Z	0.70	100.0	980.0	976.0	4.0	P	66.7	976.0	971.3	7.00	5.4	4.5	5.0	0.2	0.0	5.2	7.3	10.2	0.56	0.79	20.0
21	0.19	252.0	993.0	980.0	Z	0.70	100.0	993.0	988.0	5.0	P	152.0	988.0	980.0	5.26	4.7	4.2	5.0	0.5	0.0	5.5	7.2	10.1	0.96	1.34	21.0
22	0.17	252.0	993.0	980.0	Z	0.70	100.0	993.0	988.0	5.0	P	152.0	988.0	980.0	5.26	4.7	4.2	5.0	0.5	0.0	5.5	7.2	10.1	0.86	1.20	22.0
23	0.20	327.1	981.0	962.6	Z	0.70	100.0	981.0	976.5	4.5	P	227.1	976.5	962.6	6.12	5.0	4.4	5.0	0.8	0.0	5.8	7.1	10.0	1.00	1.40	23.0
24	0.20	194.7	959.5	956.9	Z	0.70	100.0	959.5	958.5	1.0	P	94.7	958.5	956.9	1.71	2.7	7.2	7.2	0.6	0.0	7.8	6.6	9.3	0.92	1.30	24.0
25	5.50	673.7	1001.5	964.0	Z	0.87	100.0	1001.5	998.5	3.1	P	573.7	998.5	964.0	6.01	5.0	2.8	5.0	1.9	0.0	6.9	6.8	9.6	32.56	45.85	25.0
A	33.95	1346.0	993.0	898.0	B	0.87	100.0	993.0	987.0	6.0	P	1246.0	987.0	898.0	7.14	5.4	2.3	5.0	3.8	0.0	8.8	6.3	8.9	187.13	264.18	A
B	7.22	695.0	987.0	958.0	B	0.87	100.0	987.0	983.0	4.0	P	595.0	983.0	958.0	4.20	4.2	2.6	5.0	2.4	0.0	7.4	6.7	9.4	41.99	59.16	B
C	9.08	841.7	1020.0	948.9	B	0.87	100.0	1020.0	1015.0	5.0	P	741.7	1015.0	948.9	8.92	6.1	2.4	5.0	2.0	0.0	7.0	6.8	9.5	53.51	75.36	C
Site	64.33	2462.0	1020.0	898.0	M	0.87	100.0	1020.0	1006.0	14.0	P	2362.0	1006.0	898.0	4.57	4.3	1.7	5.0	9.1	0.0	14.1	5.3	7.6	298.09	423.19	Site

Velocity = 16.1345 x SQRT(slope) (Unpaved) Velocity = 20.3282 x SQRT(slope) (Paved) Formula taken from "Urban Hydrology for Small Watersheds - Technical Release 55", Appendix F.
 ** T(I) = 1.8 x (1.1-C) x SQRT(overland length) / (slope)^{1/3} Formula taken from American Public Works Association 5602.5
 *** T(T) = Channel Length / Velocity Formula taken from "Urban Hydrology for Small Watersheds - Technical Release 55", Eq. 3-1.

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 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

Project: View High Project
 Issue Date: November 22, 2019

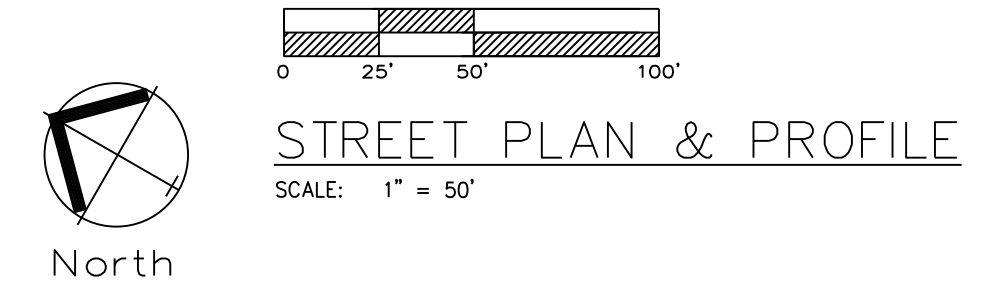
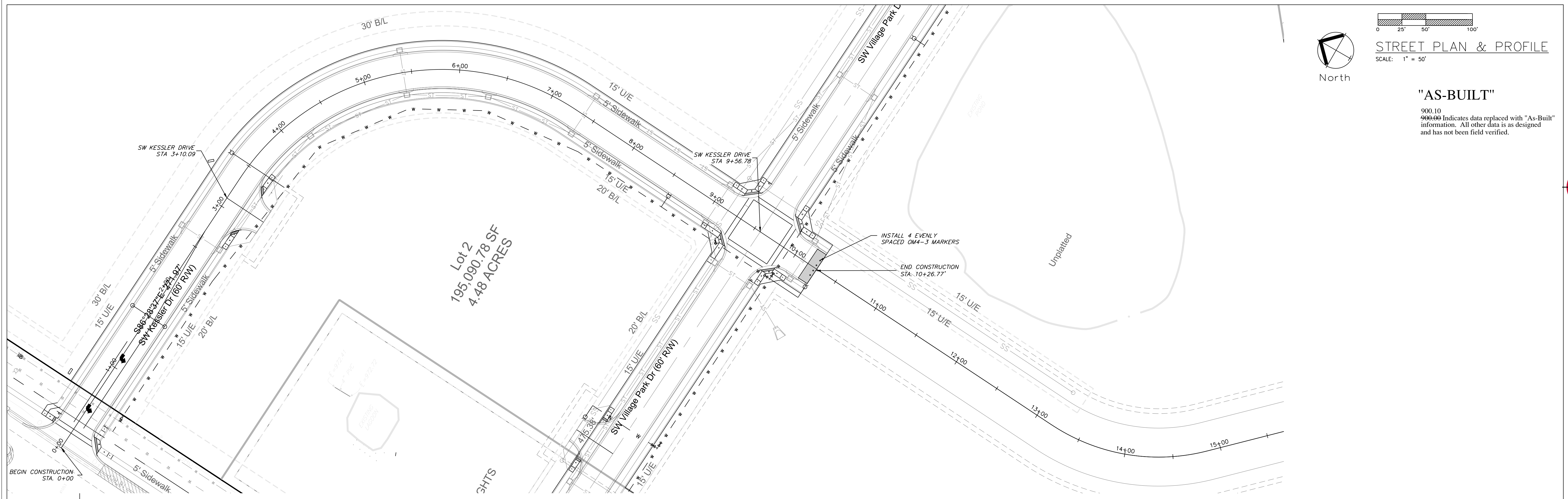
Master Drainage Map 2 of 2:
 Drainage Area Map
 Construction Plans for:
 Village at View High
 Lee's Summit, Jackson County, Missouri

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

REVISIONS
 11/22/19 As-Built

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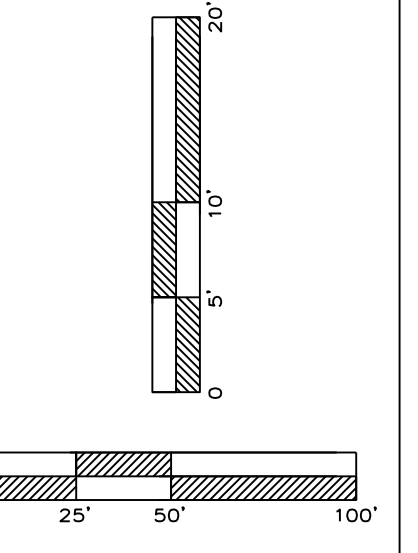
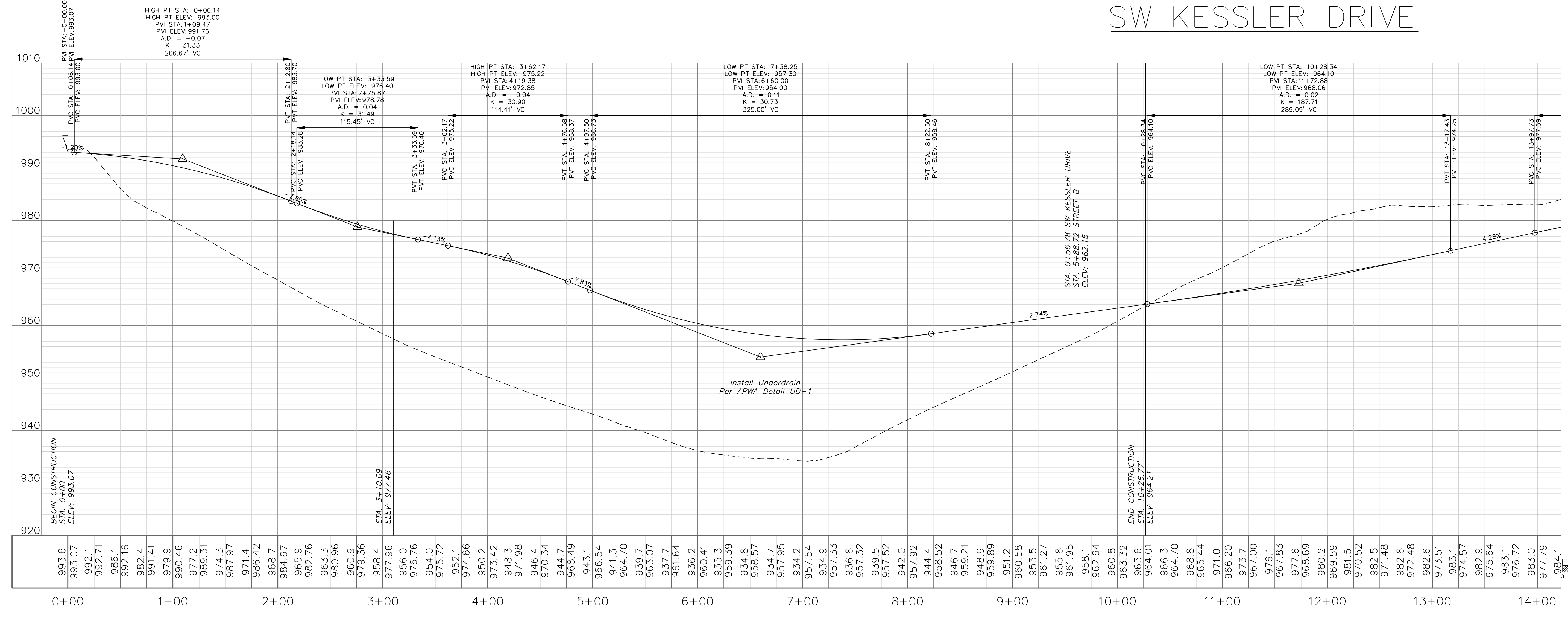
Project: Village At View High
 Lee's Summit, Jackson County, Missouri

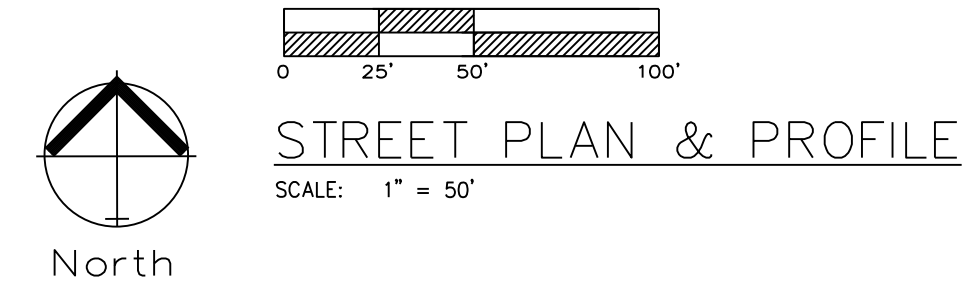
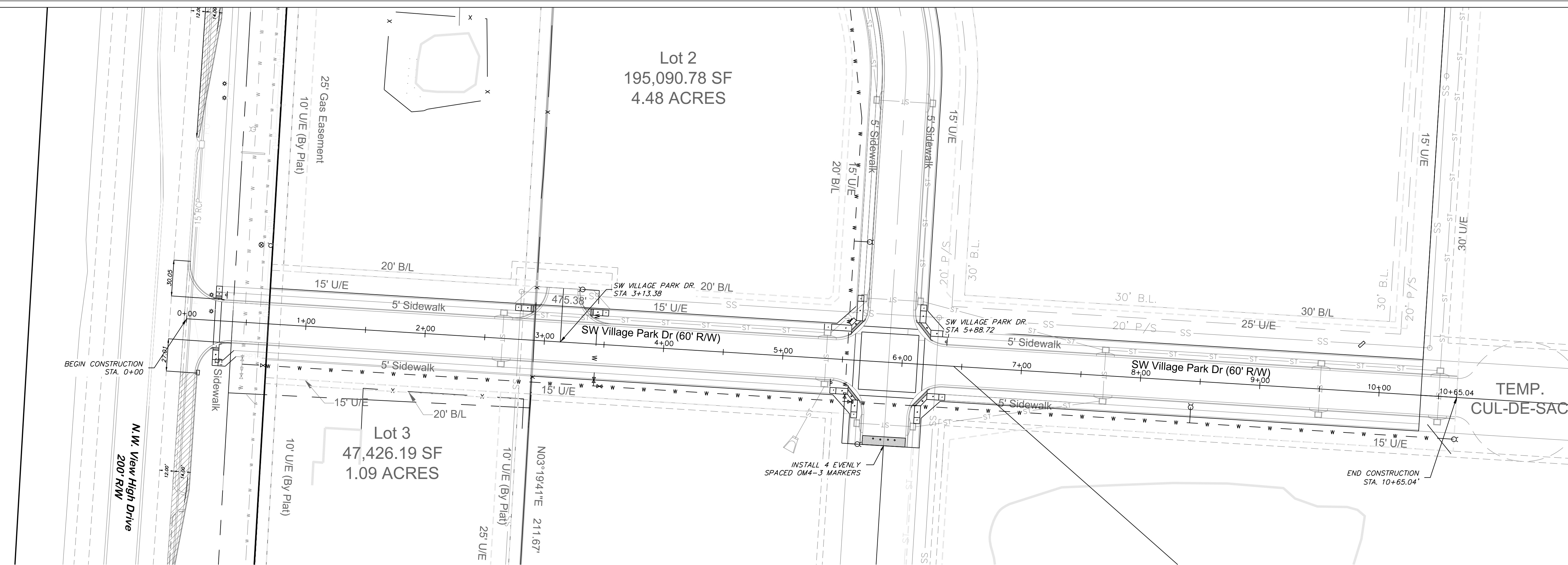
View High Project
 Issue Date: November 22, 2019

Street Plan and Profile
 Construction Plans for:
 Village at View High
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25228

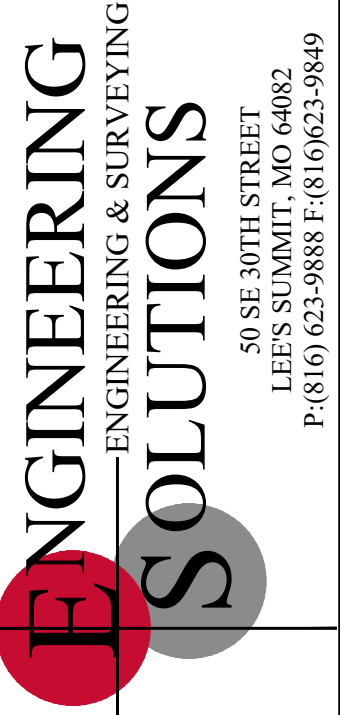
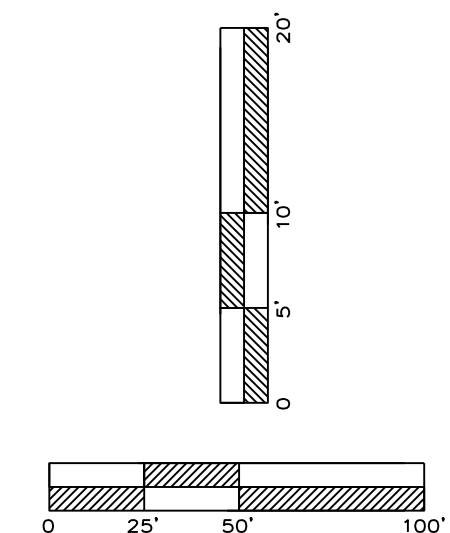
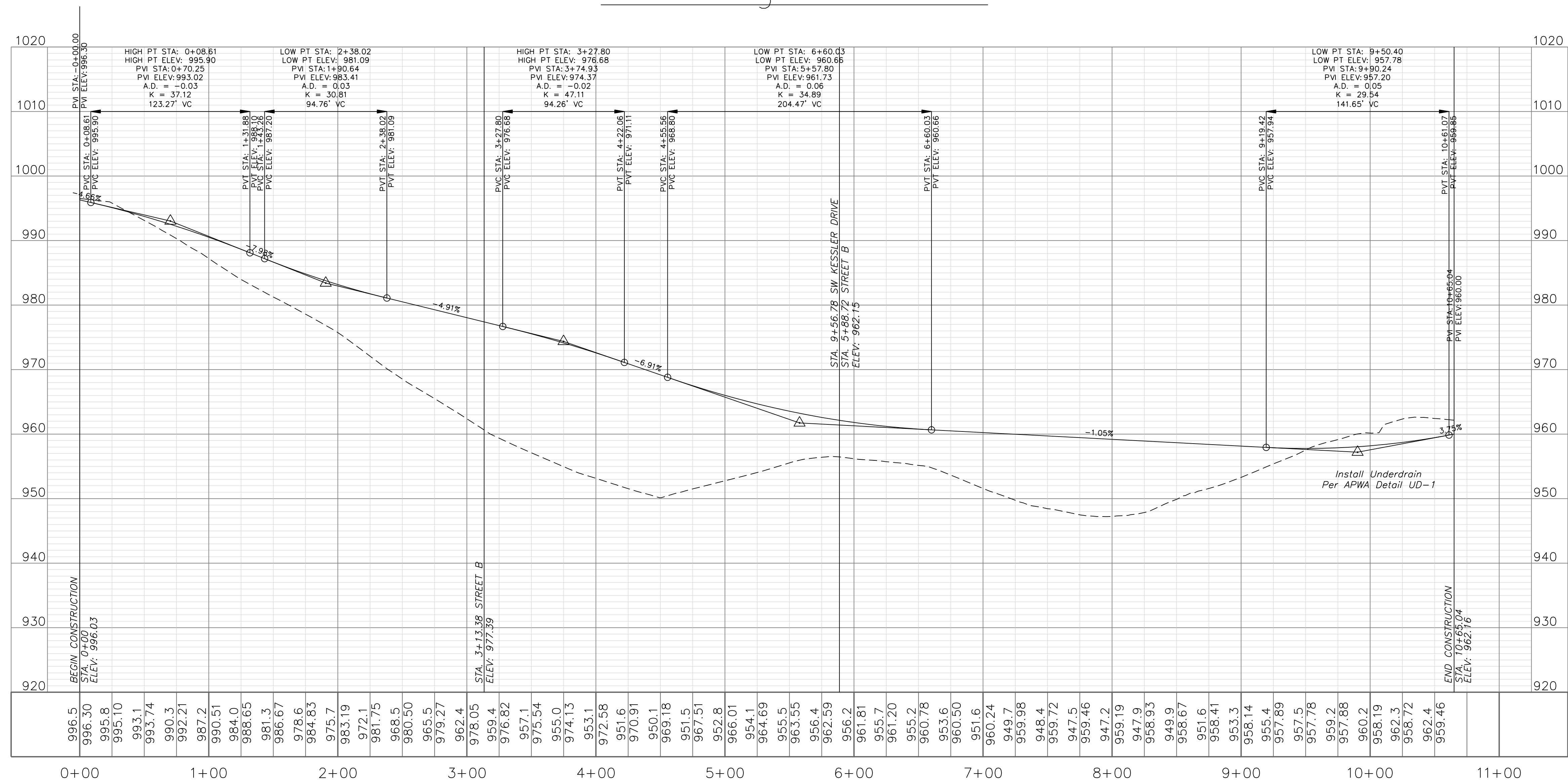
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SW Village Park Dr.



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 Surveying LS-218
 Oklahoma
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 Engineering CA2821

Village At View High
 Lee's Summit, Jackson County, Missouri

Project:
 View High Project
 Issue Date:
 November 22, 2019

Village Park Plan and Profile
 Construction Plans for:
 Village at View High
 Lee's Summit, Jackson County, Missouri

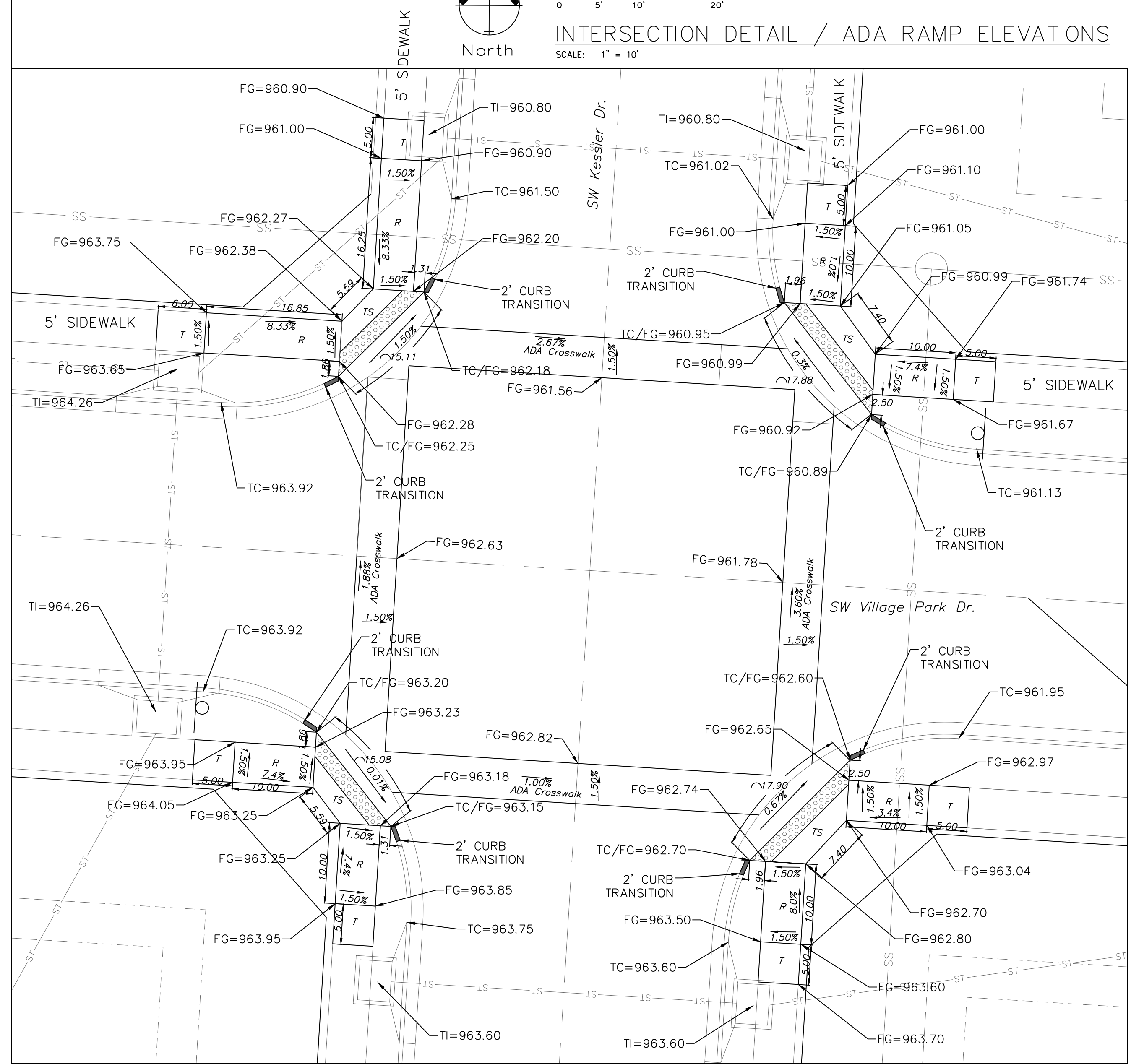
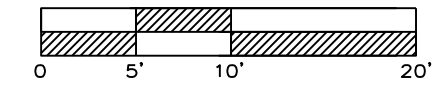
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REVISIONS
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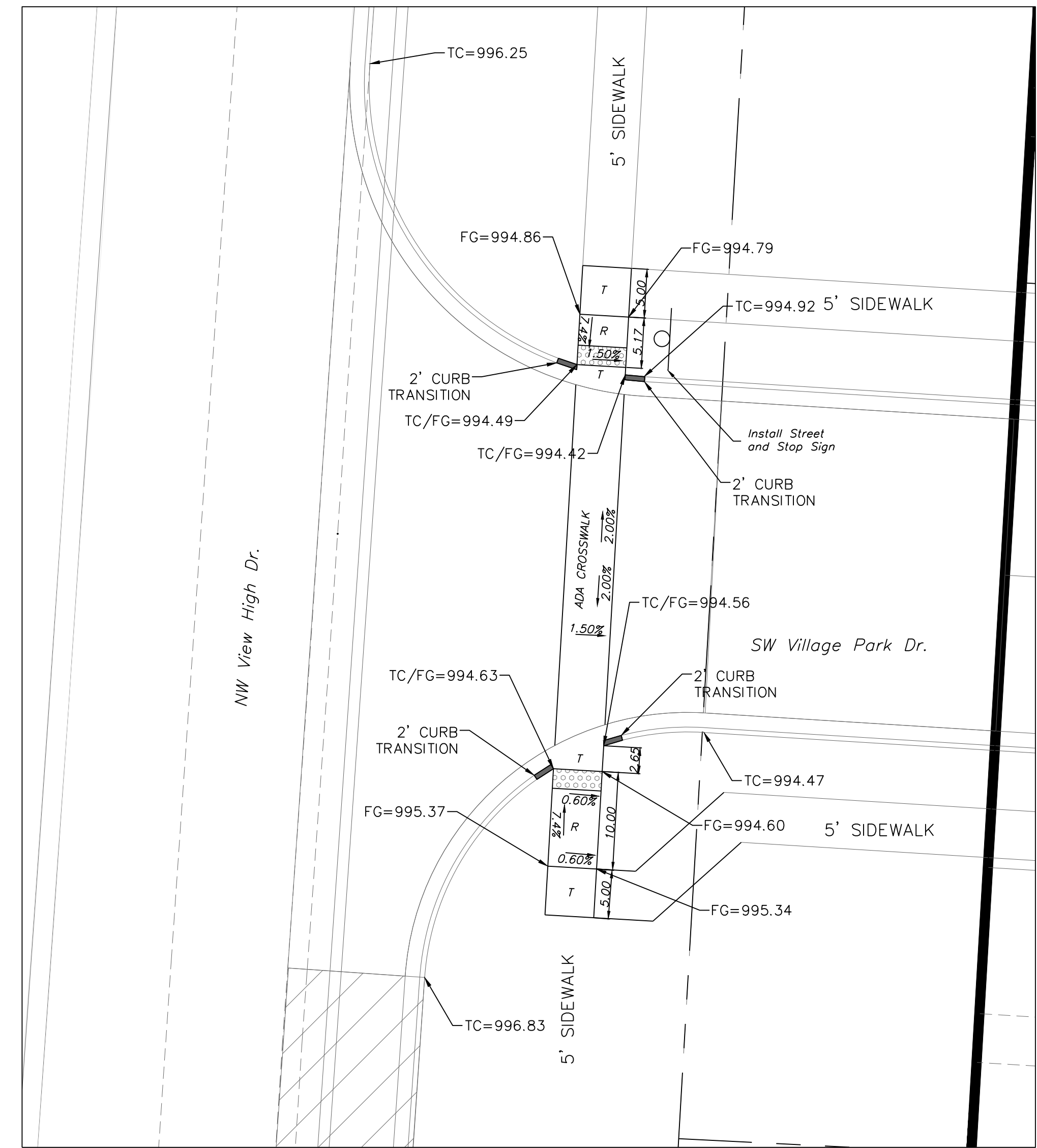
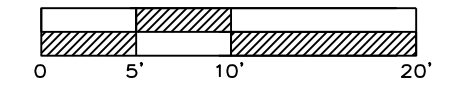
INTERSECTION DETAIL / ADA RAMP ELEVATIONS

SCALE: 1" = 10'



INTERSECTION DETAIL / ADA RAMP ELEVATIONS

SCALE: 1" = 10'



Professional Registration
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View High Project
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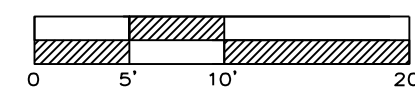
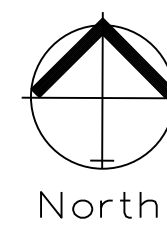
Village At View High
Lee's Summit, Jackson County, Missouri

Intersection Details & ADA Ramp Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

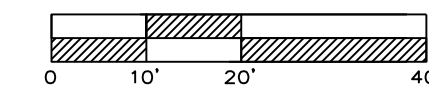
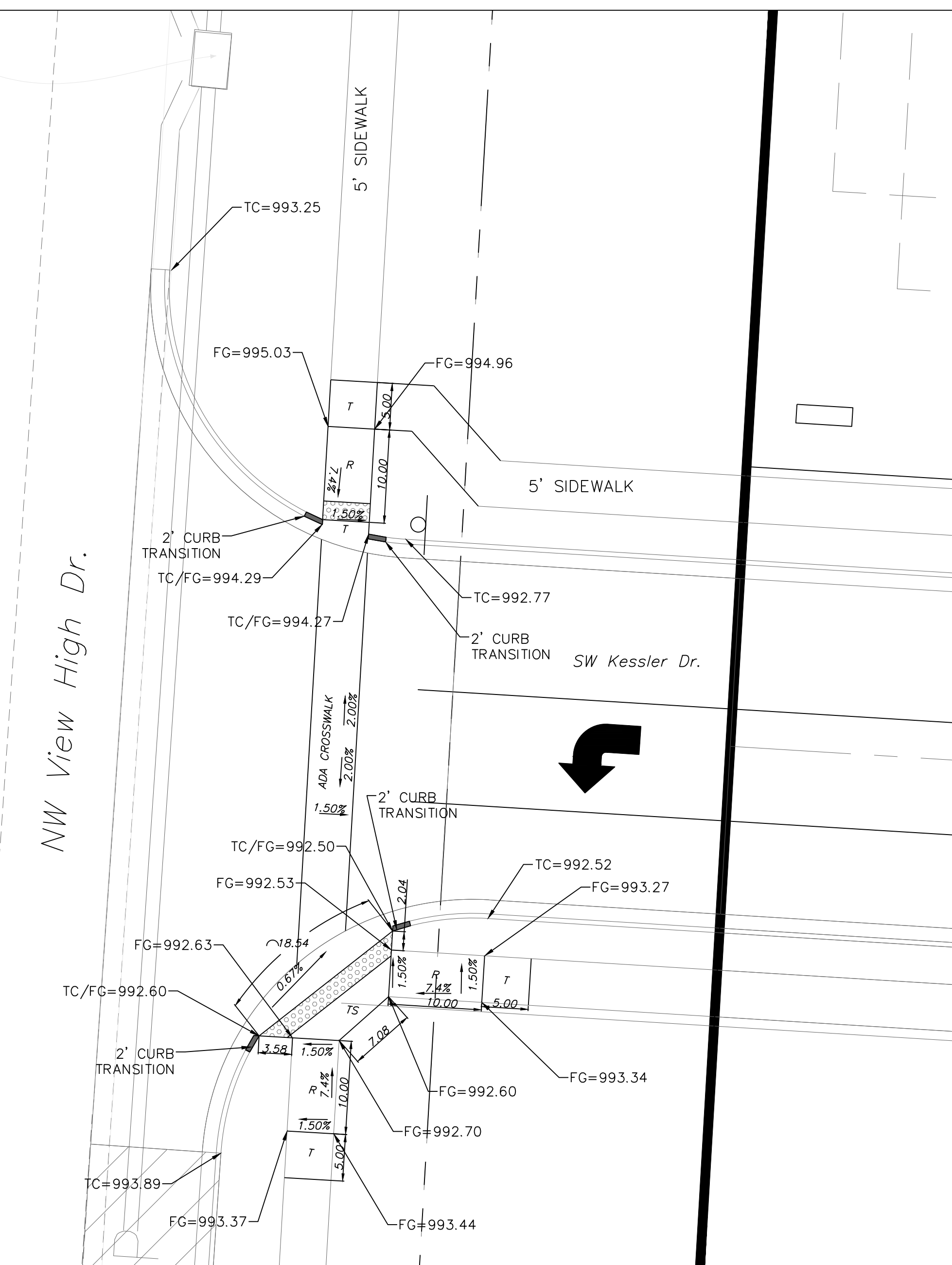
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REVISIONS
11/22/19 As-Built

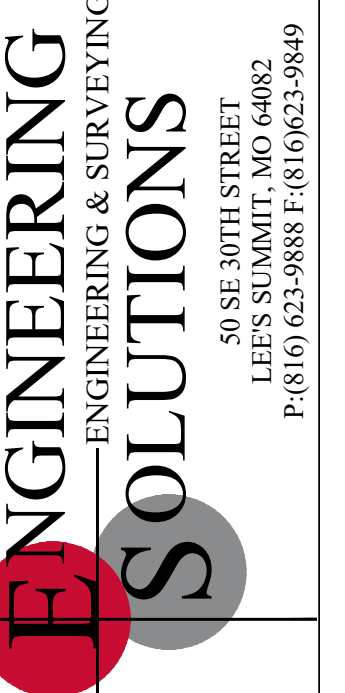
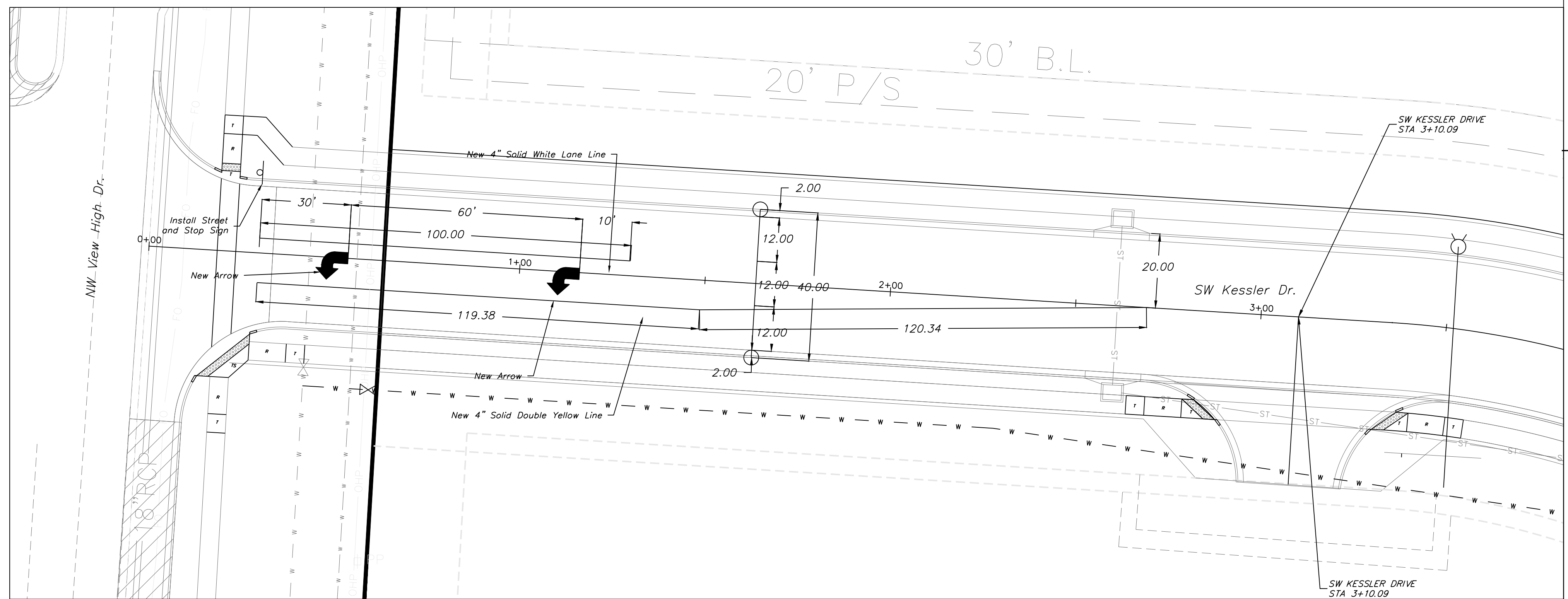
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INTERSECTION DETAIL / ADA RAMP ELEVATIONS
SCALE: 1" = 10'



INTERSECTION DETAIL / ADA RAMP ELEVATIONS
SCALE: 1" = 20'



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Kansas
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Nebraska
Engineering CA2821

Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

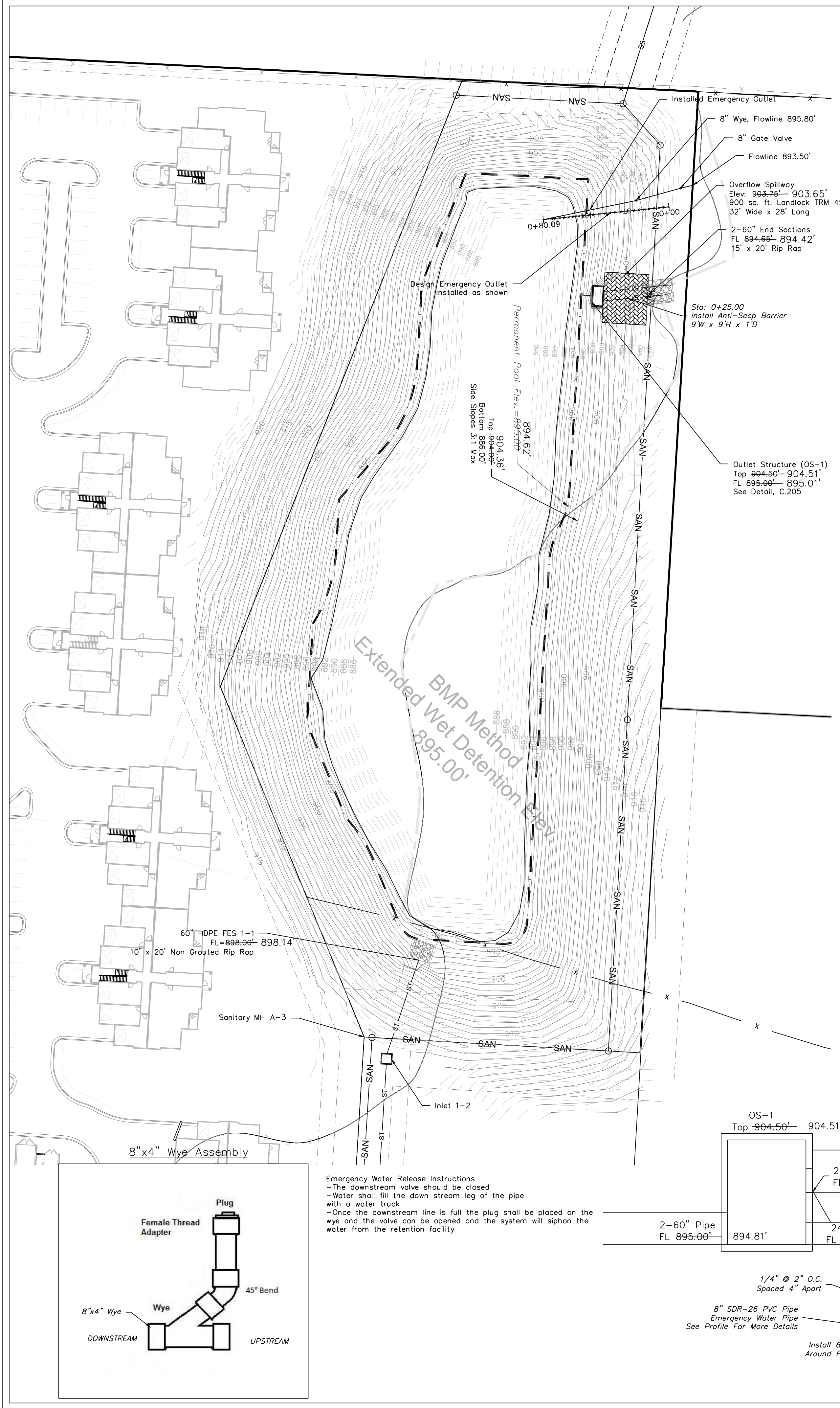
Intersection Details & ADA Ramp Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

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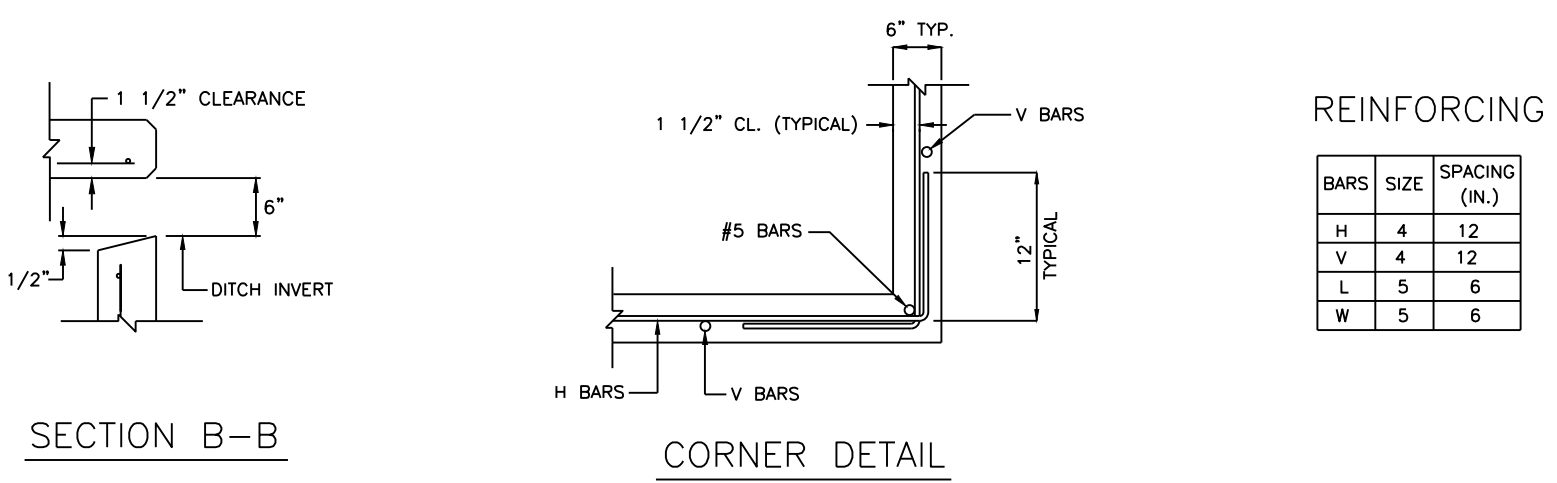
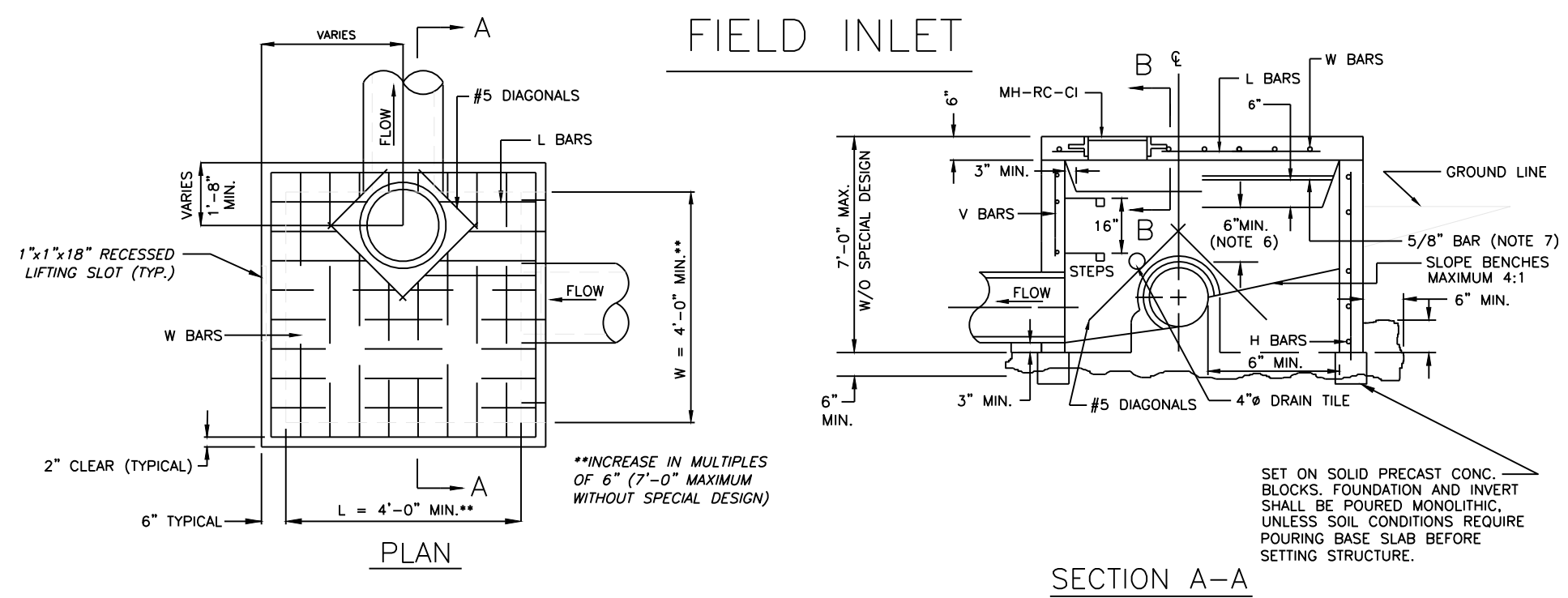
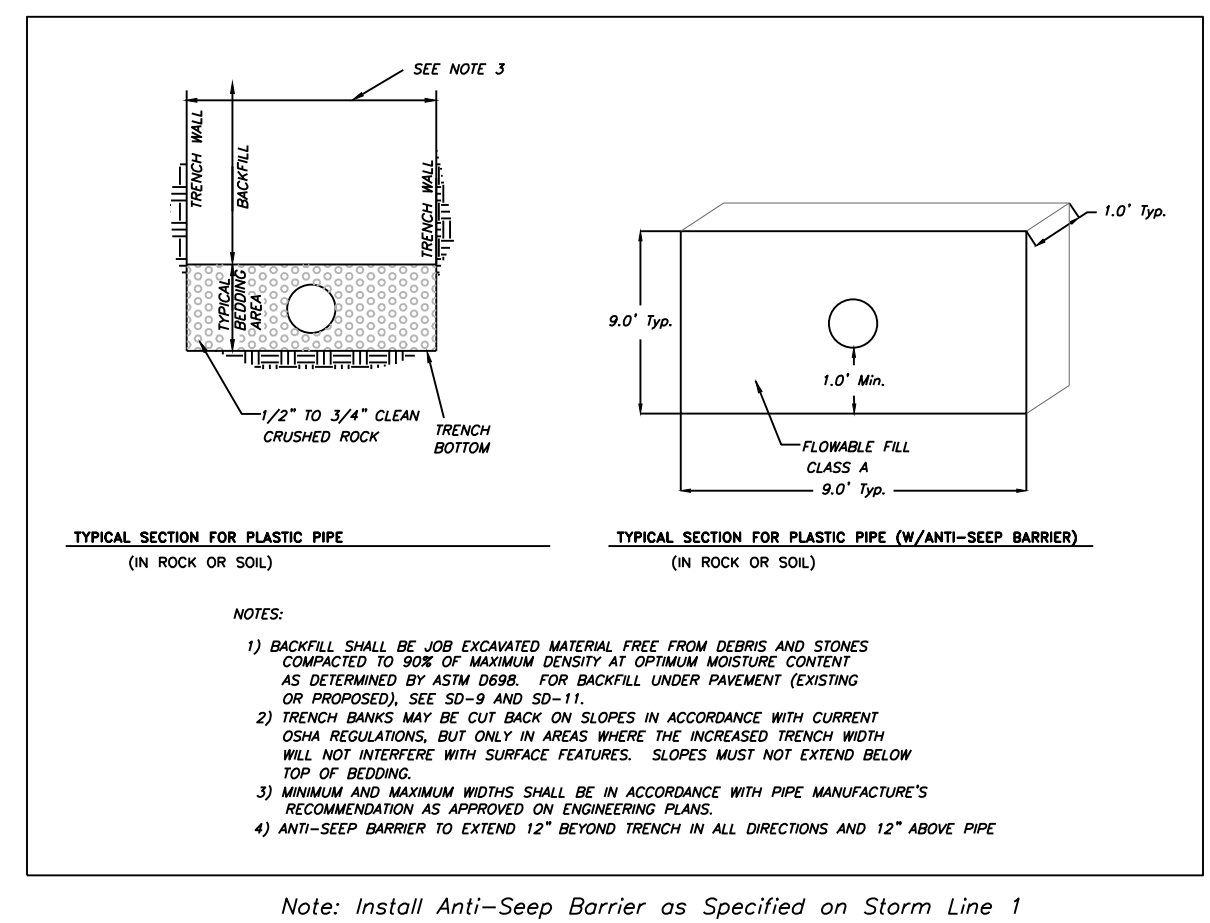
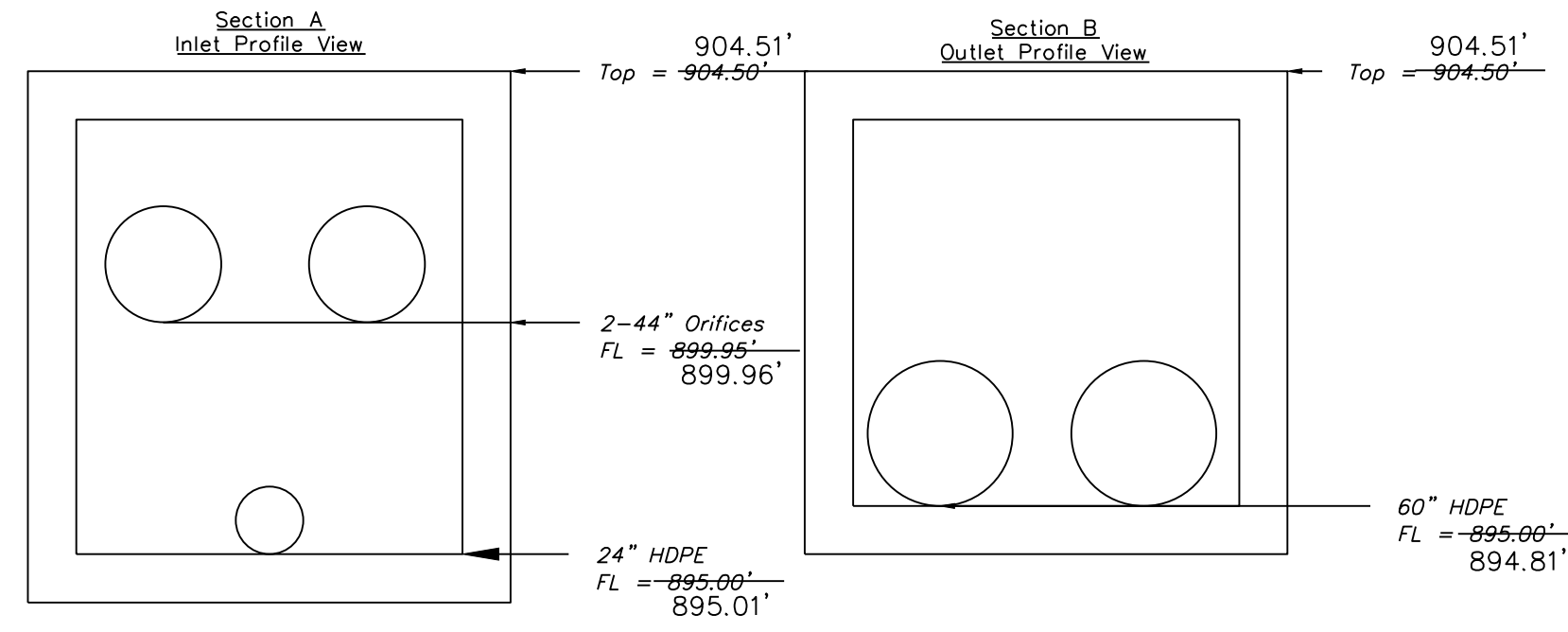
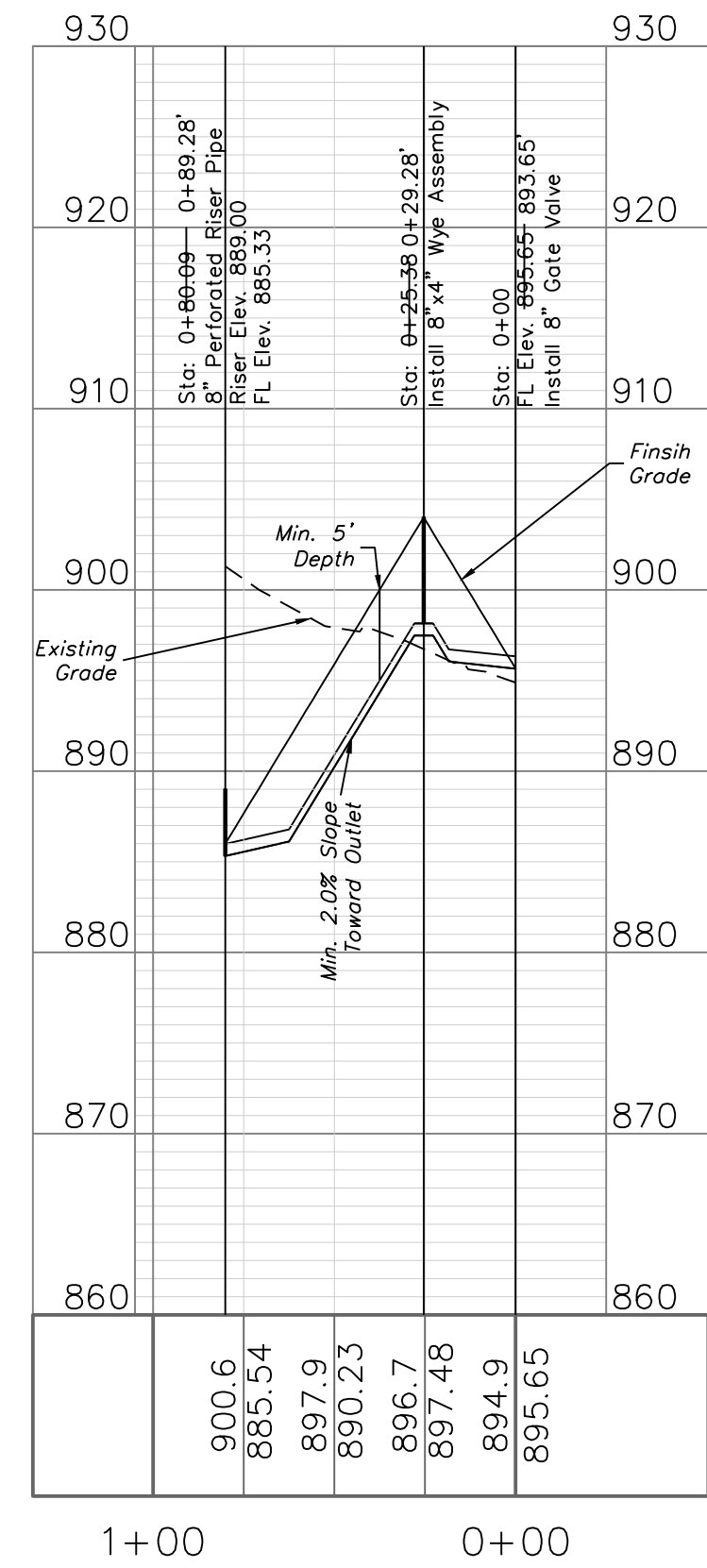
REVISIONS
11/22/19 As-Built

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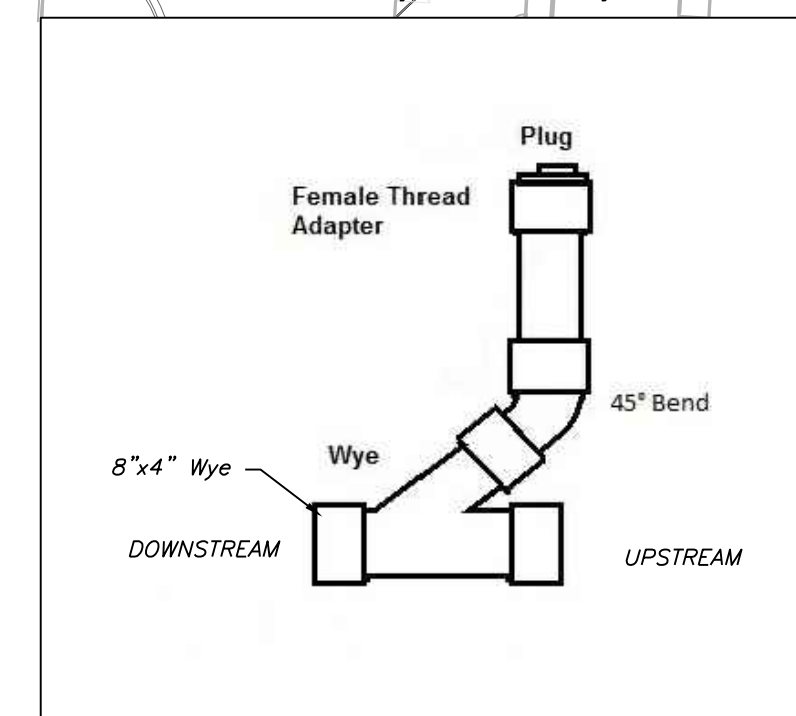
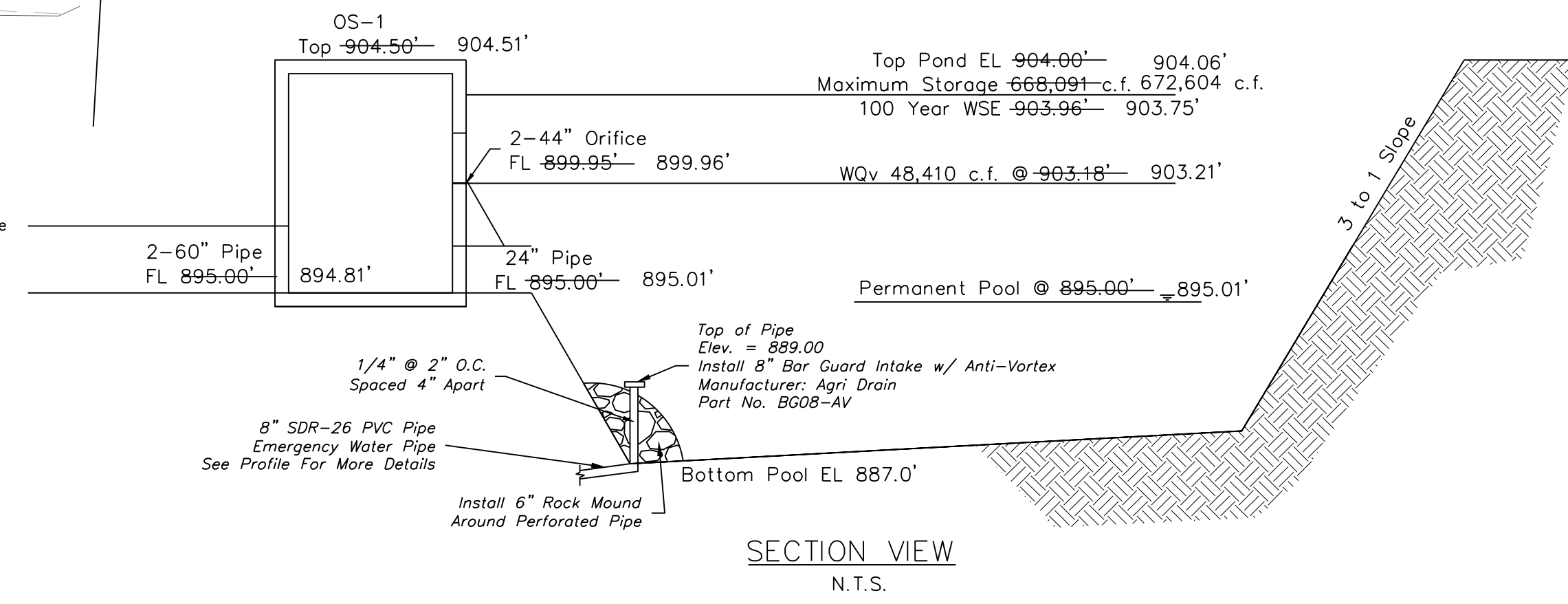
Emergency Water Release Pipe



Legend:
 E = Existing As-Built Grade
 P = Proposed Grade



- GENERAL NOTES:**
1. Locate ring and cover over outlet.
 2. All work and materials shall conform to APWA Sect. 2600.
 3. Use 3/4" chamfer strip on all exposed concrete corners.
 4. Steps required @ 16" O.C. when depth from top of casting to invert exceeds 4 feet.
 5. Boxouts will not be allowed to project through the corners of the structure.
 6. The minimum reinforcing shall be 1 H-bar over a cast-in place pipe and 2 H-bars over a precast boxout.
 7. Limit opening height to 6" with No. 5 galvanized bars extending to corner rebars.
 8. Show field inlet orientation on plans plus number and size of opening.
 9. O.R. = one half outside pipe diameter (O.D.).
 10. 4" # field tile or precast hole shall be located at entering pipe and in the front face sump points. These tiles or openings shall be capped with 1/2" galvanized wire mesh on the outside of the inlet and clear the invert and base concrete.



Emergency Water Release Instructions
 -The downstream valve should be closed
 -Water shall fill the down stream leg of the pipe with a water truck
 -Once the downstream line is full the plug shall be placed on the wye and the valve can be opened and the system will siphon the water from the retention facility

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 Engineering CA2821

Village At View High
 Lee's Summit, Jackson County, Missouri

Project: Village At View High Project
 Issue Date: July 22, 2016

ASBUILT Basin Design Plan View
 Construction Plans for:
 Village at View High
 Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
 MATTHEW J. SCHLICHT
 NUMBER 00
 PROFESSIONAL ENGINEER

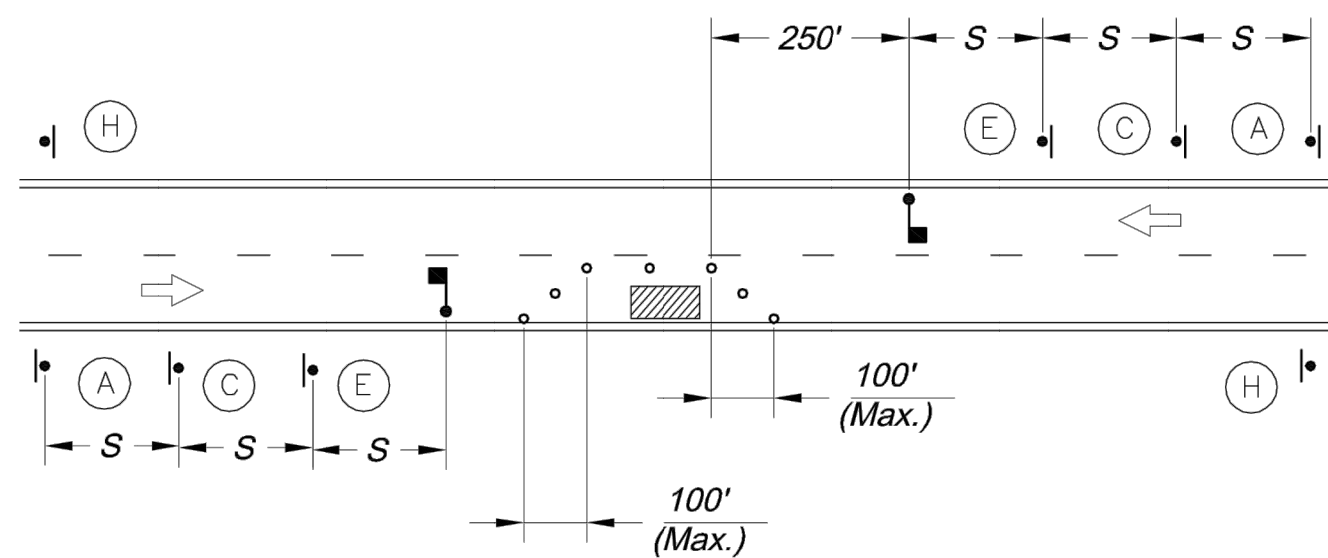
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REVISIONS
 REV. 9-20-17
 REV. 10-11-17
 REV. 12-19-17
 ASBUILT 5/28/2020
 ASBUILT 9/1/2020

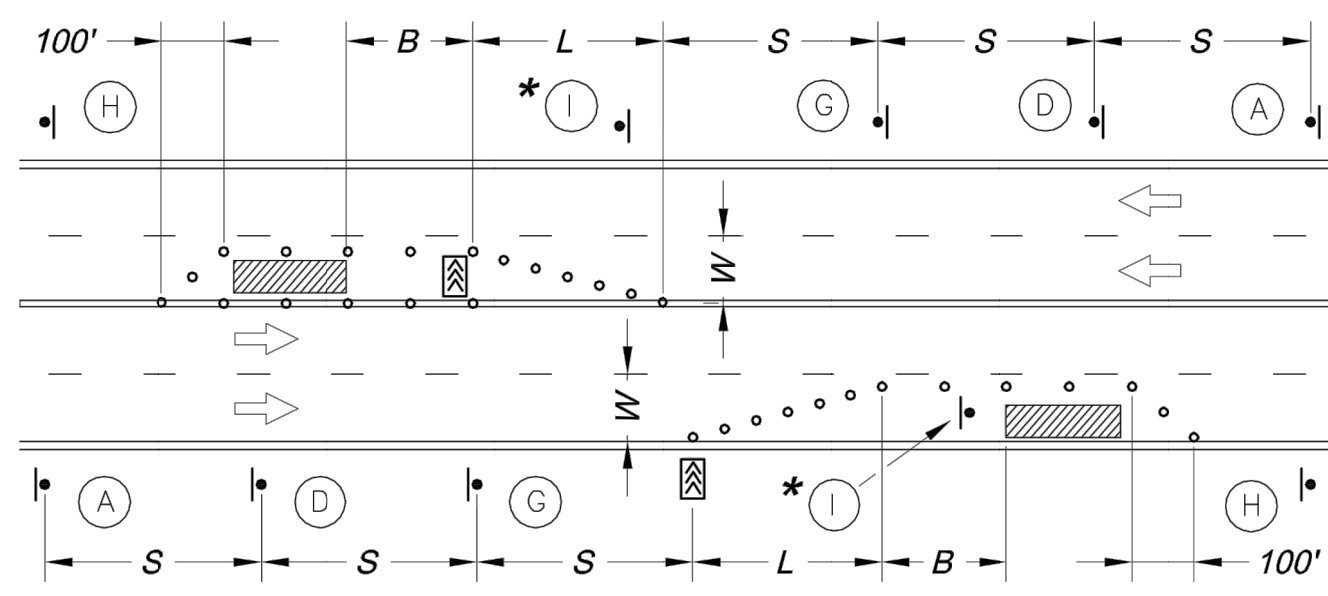
C.206

SYMBOL LEGEND

- Work Area
- Channelizer
- Sign
- Arrow Panel
- Barricade
- Flagger
- Direction of Travel

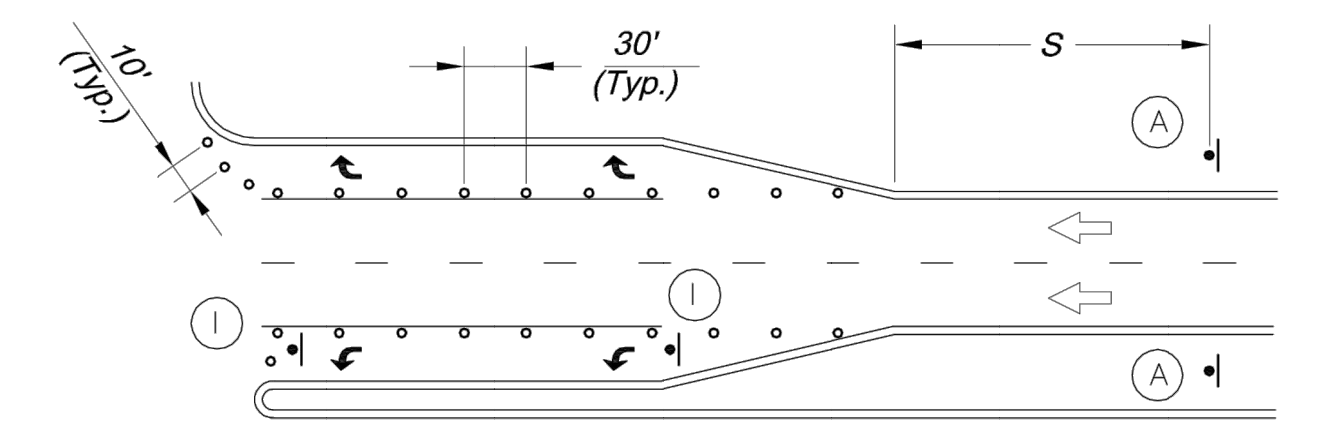


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TURN LANE CLOSURE

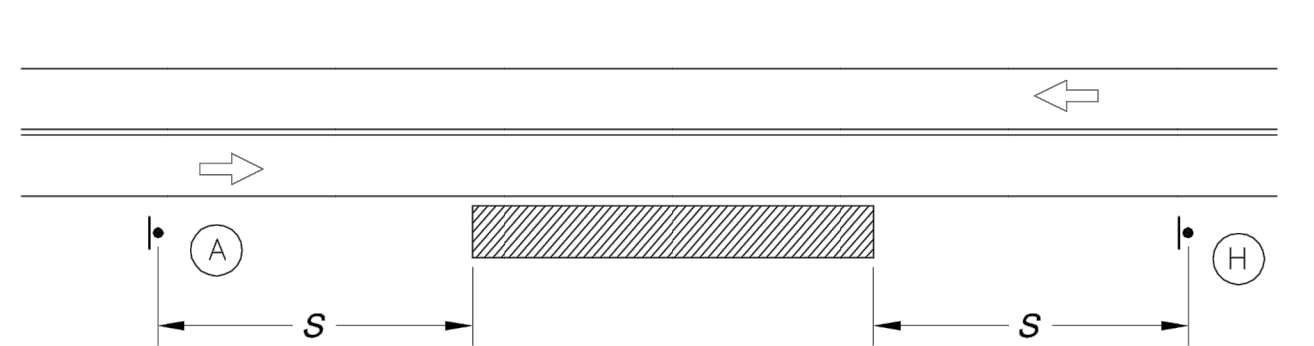
Sign Spacing "S"		Taper Dimensions (Feet)					
Speed Limit (mph)	Spacing (Feet)	Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"	10	11	12	Minimum Number of Channelizers
25	100	25	105	115	125	6	
30 - 35	250	30	150	165	180	7	
35	205	35	205	225	245	8	
40	270	40	270	295	320	9	
≥ 40	350	45	450	495	540	13	

Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

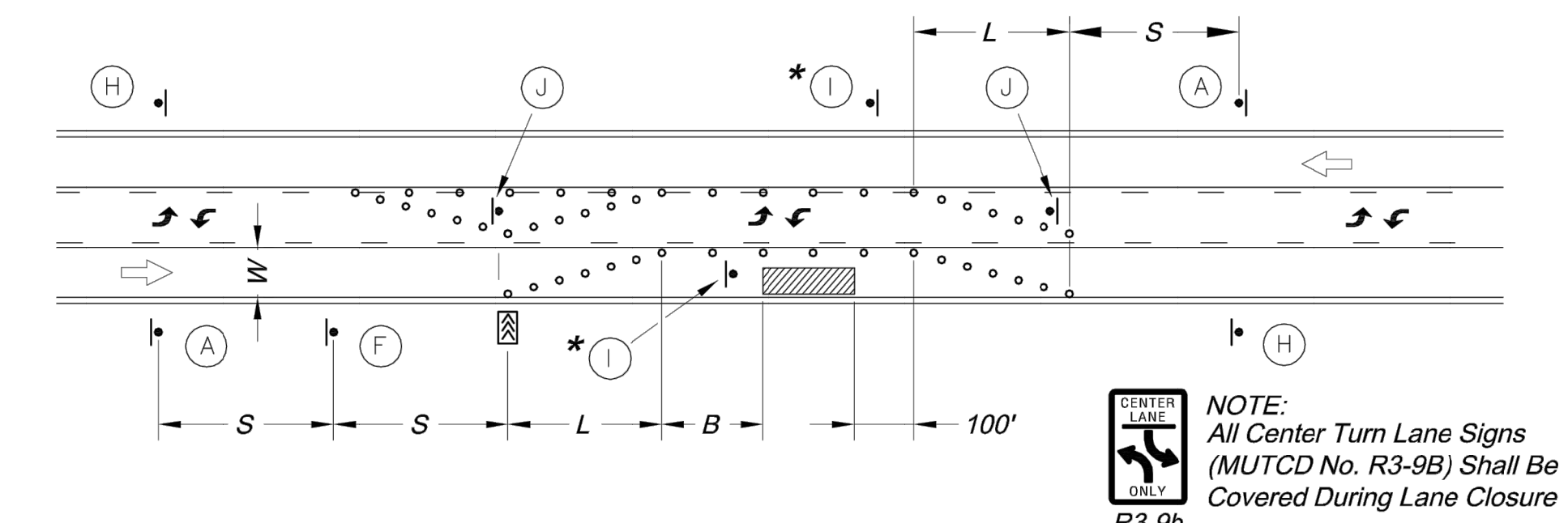
Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

- ROAD WORK AHEAD (A) W20-1 36" x 36"
- ROAD CLOSED AHEAD (B) W20-2 36" x 36"
- ONE LANE ROAD AHEAD (C) W20-4 36" x 36"
- RIGHT LANE CLOSED AHEAD (D) W20-5R 36" x 36"
- LEFT W20-5L 36" x 36"
- W20-7a 36" x 36"
- W1-4L 36" x 36"
- W1-4R 36" x 36"
- W4-2L 36" x 36"
- W4-2R 36" x 36"
- G20-2 36" x 18"
- R3-2 24" x 24"
- R4-7a 24" x 30"
- R11-2 48" x 30"
- R11-4 60" x 30"

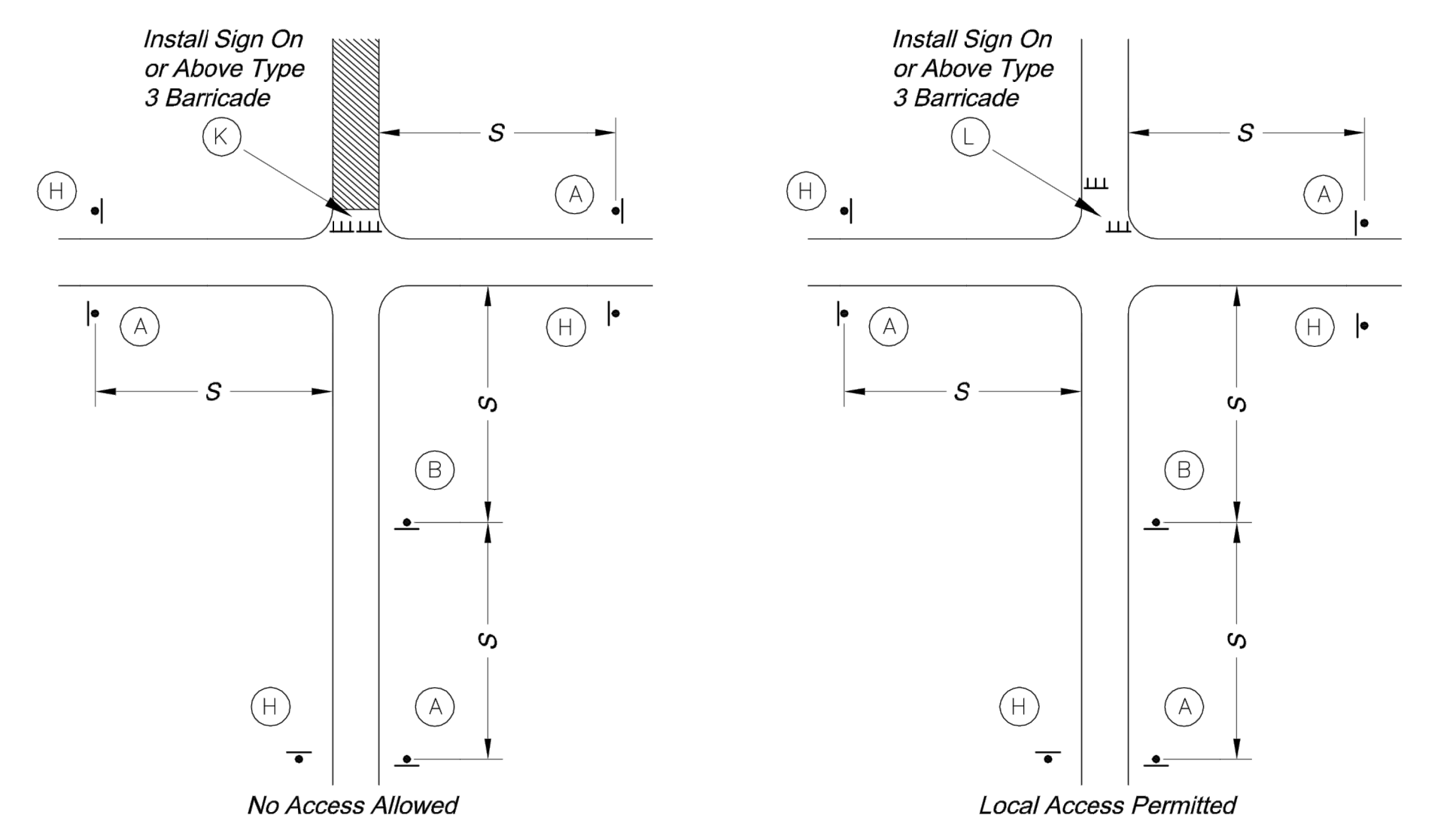


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

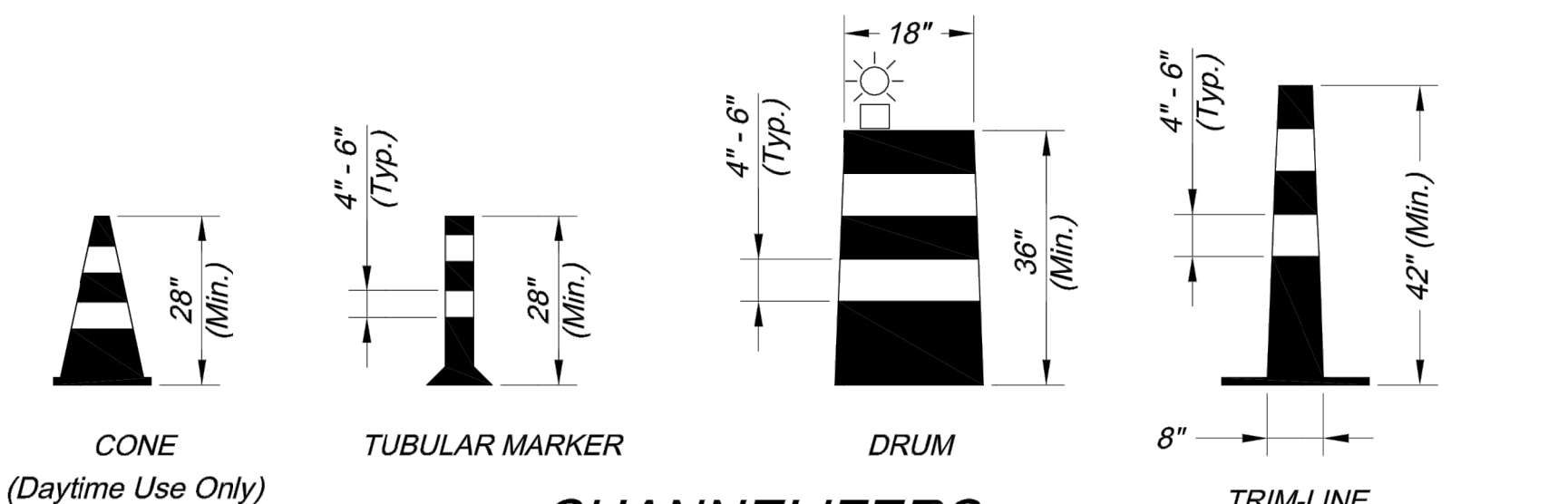
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

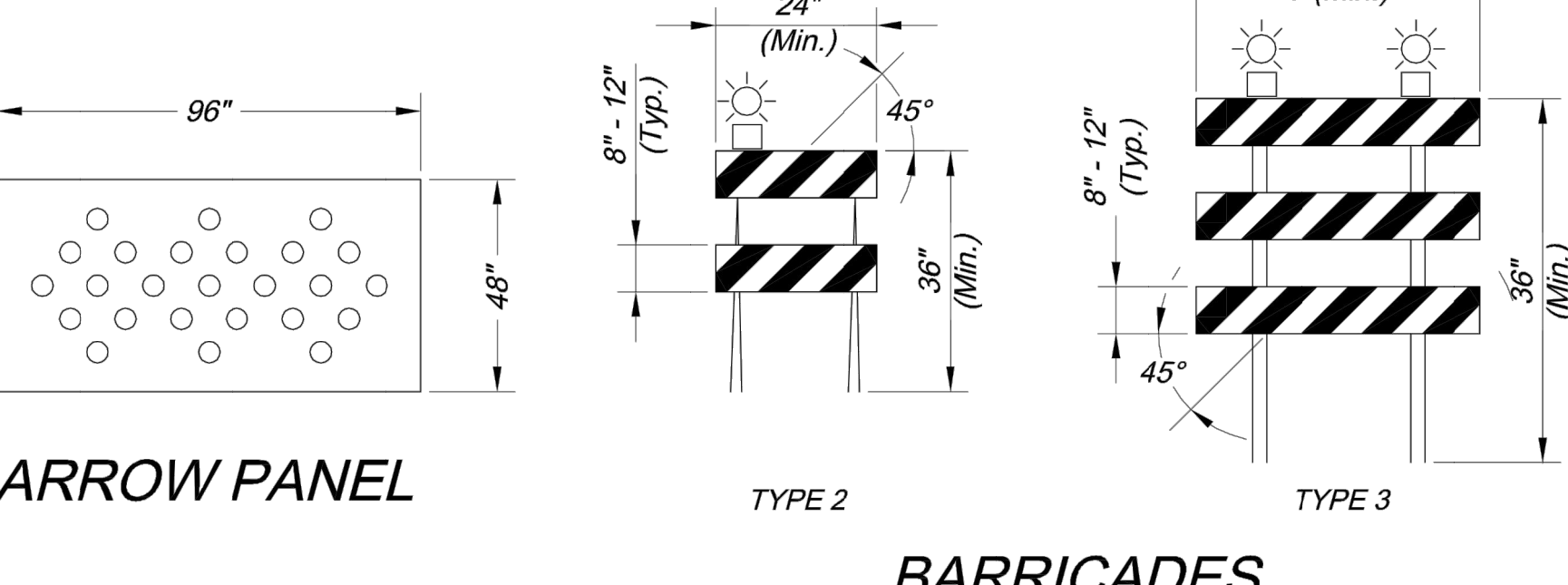
GENERAL NOTES:

- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectORIZED.
- Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
- Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
- Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
- Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. and 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 - A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate.
 - B) Stop the work until deficiencies are corrected.
 - C) Suspend all pay estimates until deficiencies are corrected, or
 - D) Place the Contractor in default.



CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



ARROW PANEL

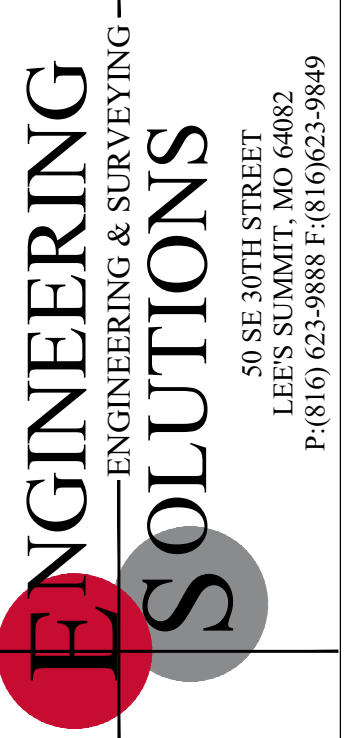
BARRICADES

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

TRAFFIC CONTROL DETAILS
STANDARD DRAWING TC-1

Drawn By: JJW
Checked By: MP
Date: 12-10-2008
Project No.: X
x OF x

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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

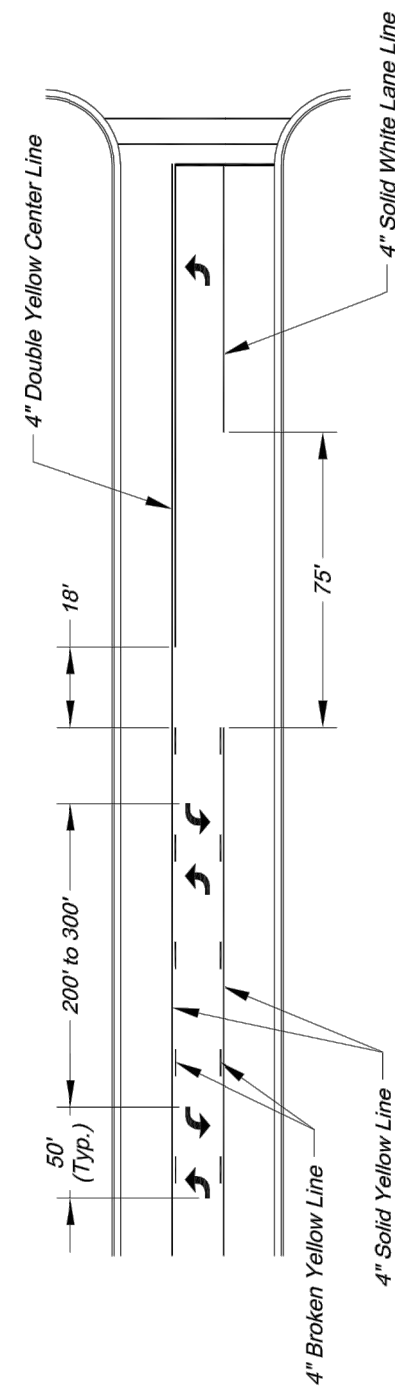
Village At View High
Lee's Summit, Jackson County, Missouri

Project: View High Project
Issue Date: November 22, 2018

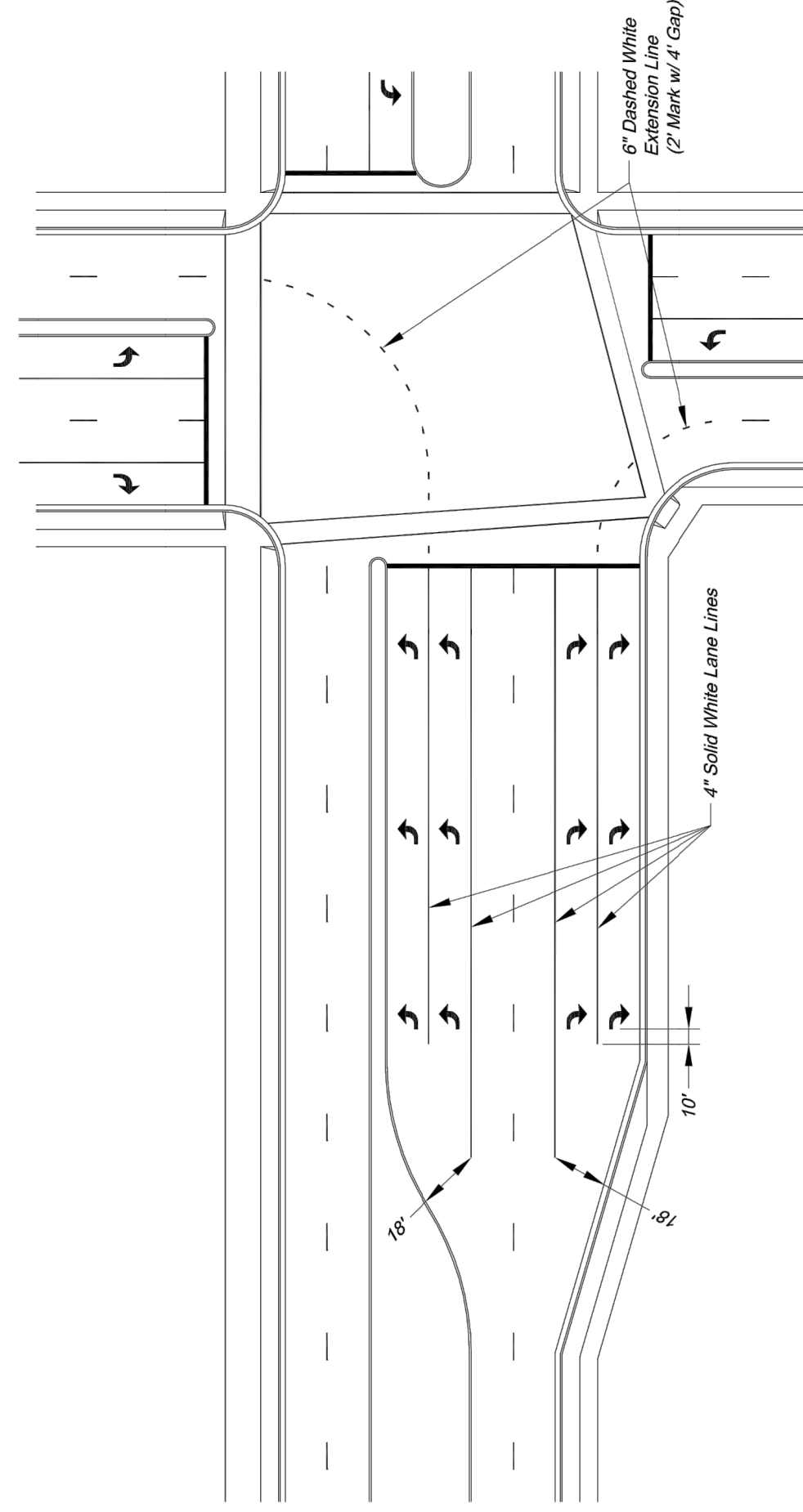
Traffic Control Details
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

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

REVISIONS
11/22/19 As-Built
C.207



TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE



TYPICAL DUAL TURN LANE MARKINGS

NOTE:
1. Dashed extension lines shall not extend through crosswalks.

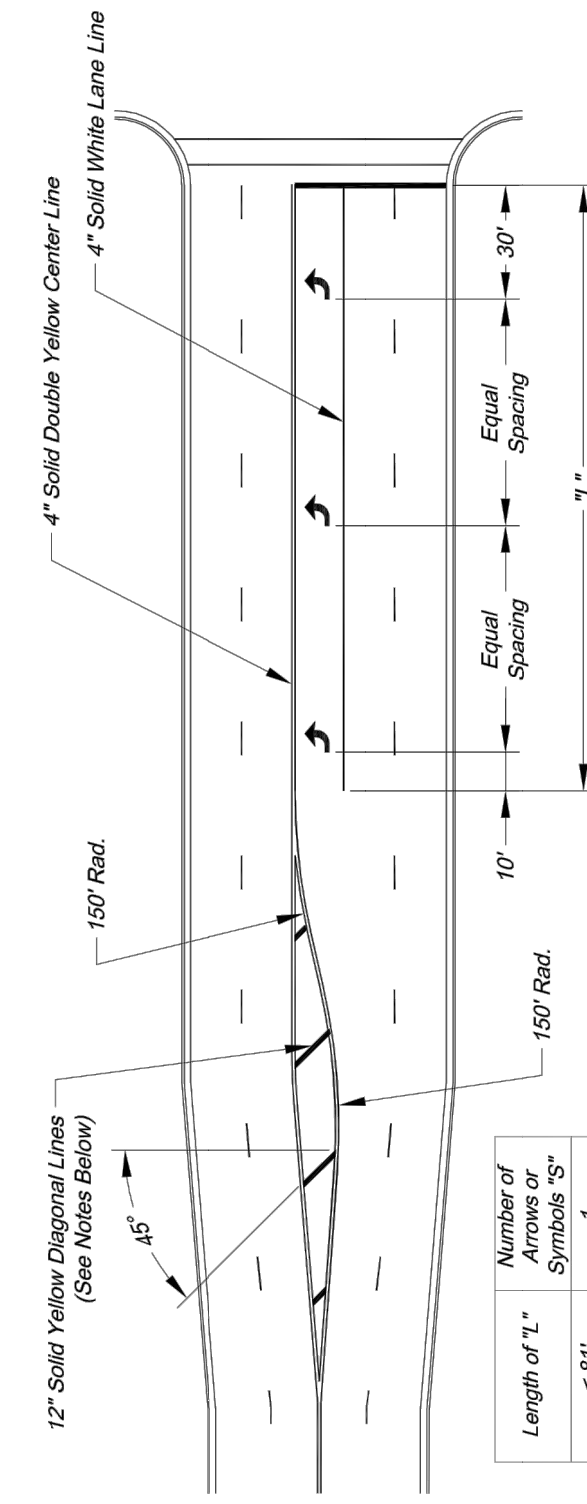
Sheet Name: INTERSECTION MARKING DETAILS
Project: CITY OF LEE'S SUMMIT
Drawn By: AS
Checked By: JW
Date: 09/07/2009
Project: 2 OF 2

City of Lee's Summit
Public Works Department
Engineering Division
Lee's Summit, Missouri 64063
Phone: (816) 969-1800 Fax: (816) 969-1809



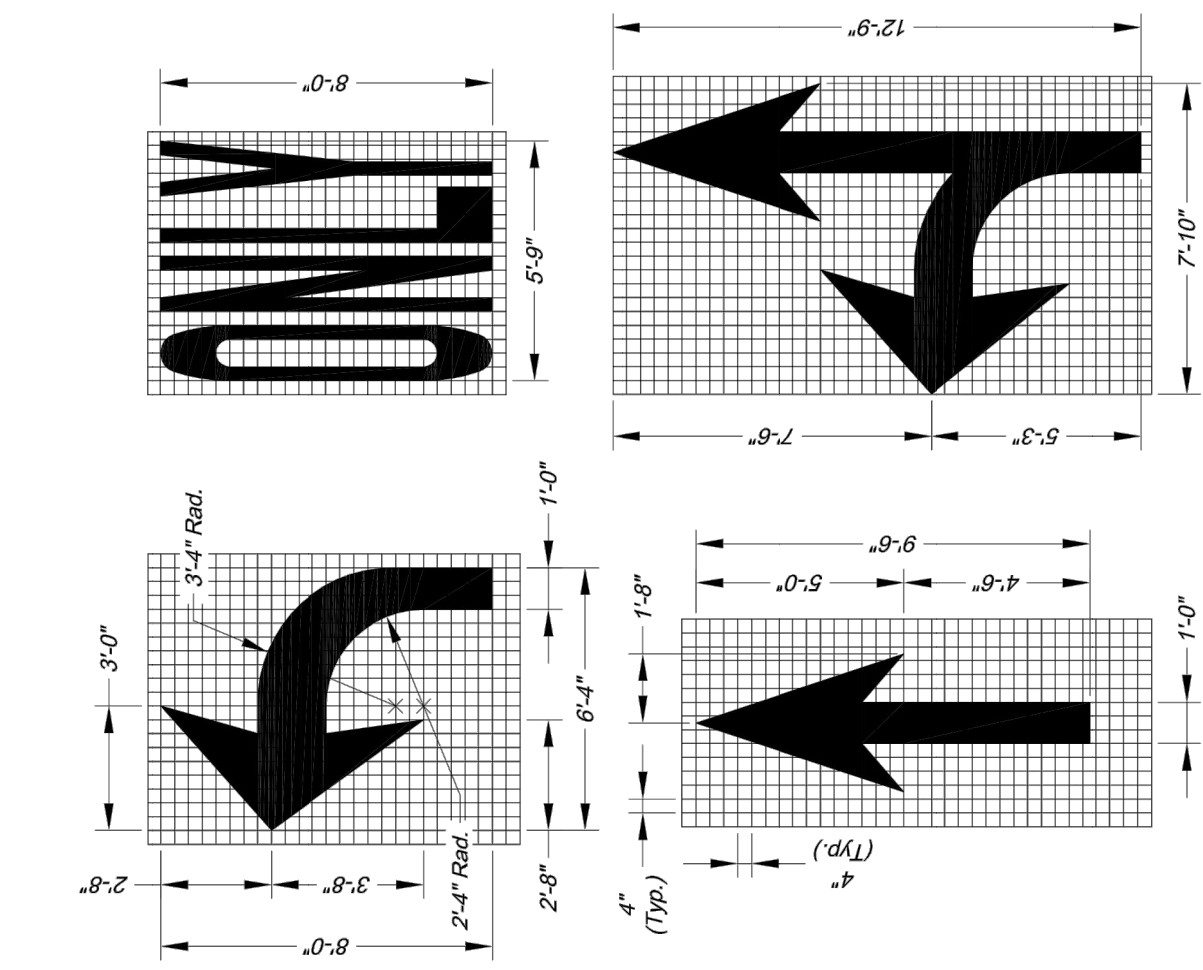
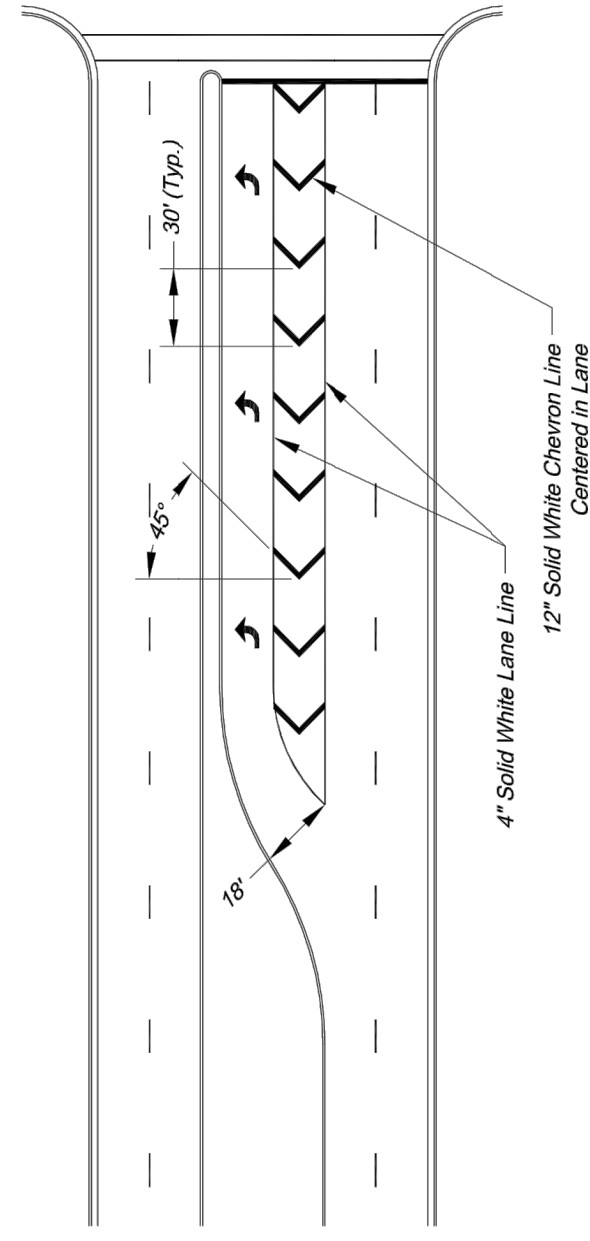
TYPICAL TURN LANE MARKINGS

NOTES:
1. Diagonal lines are required between centerlines. If the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250'.
2. Diagonal lines shall be spaced at 5' increments, equal to the posted speed limit.
3. Equal spacing is calculated as (L - 40') / (S - 1), where L = length of turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.



Length of "L"	Number of Arrows or Symbols "S"
< 61'	1
61' - 120'	2
121' - 200'	3
201' - 300'	4
301' - 380'	5
381' - 440'	6

TYPICAL STRIPED OUT TURN LANE MARKINGS

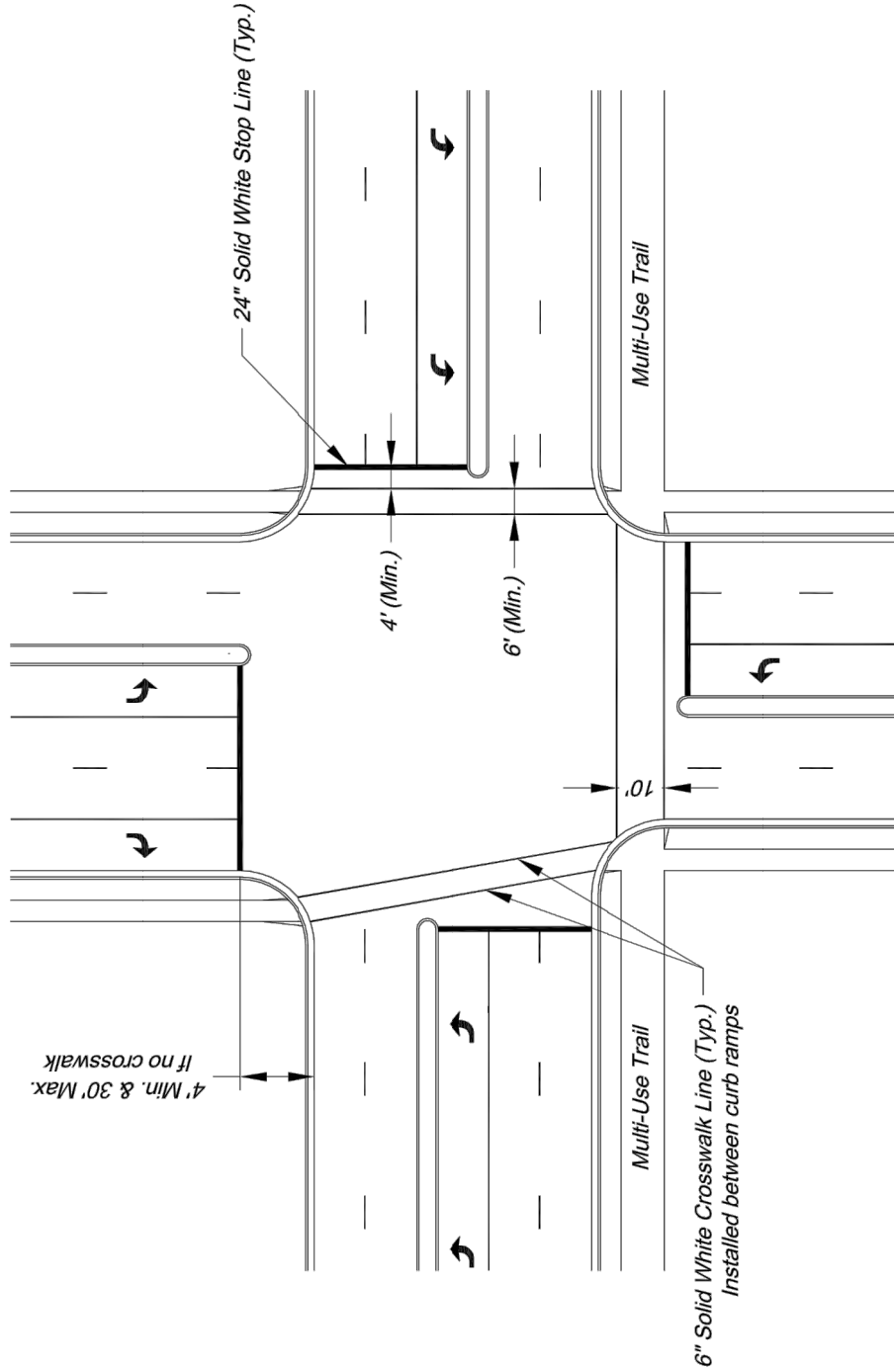


ARROW AND SYMBOL DETAILS

NOTES:
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.

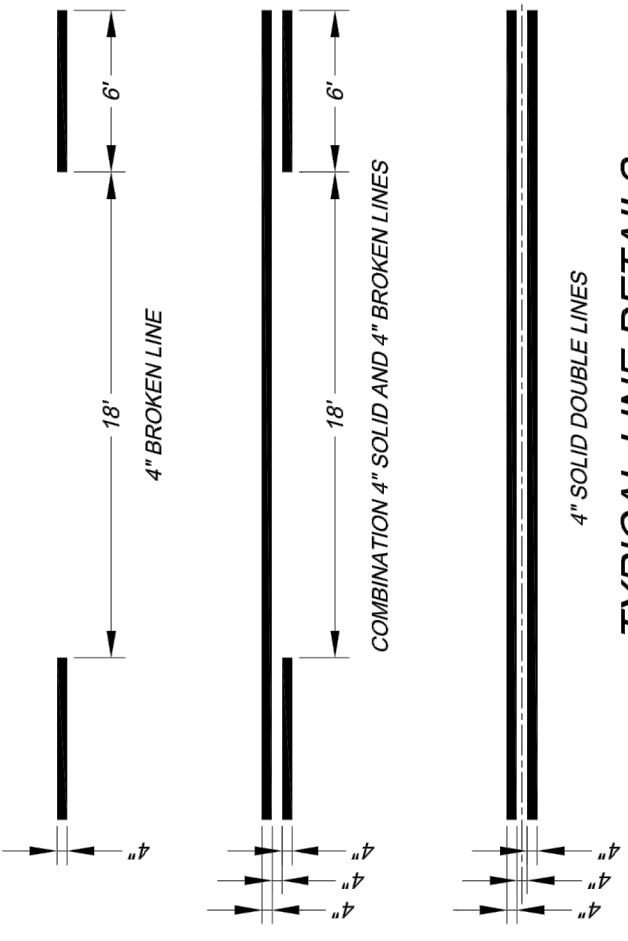
TYPICAL INTERSECTION MARKINGS

NOTES:
1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
2. Markings at signalized intersections, on multi-lane stop-controlled approaches, or in front of crosswalks at controlled intersections.

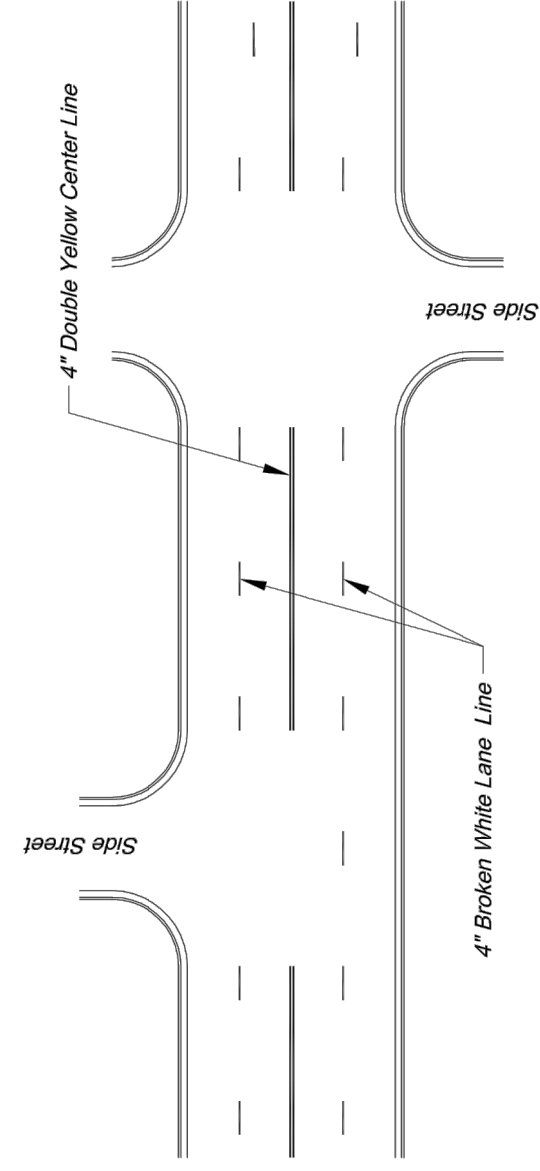
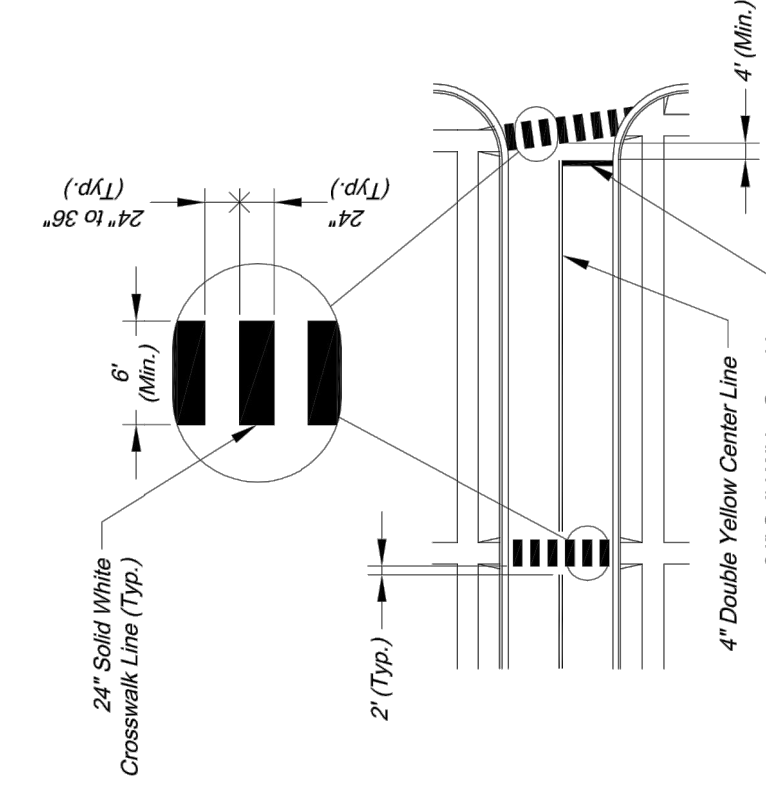


TYPICAL LINE DETAILS

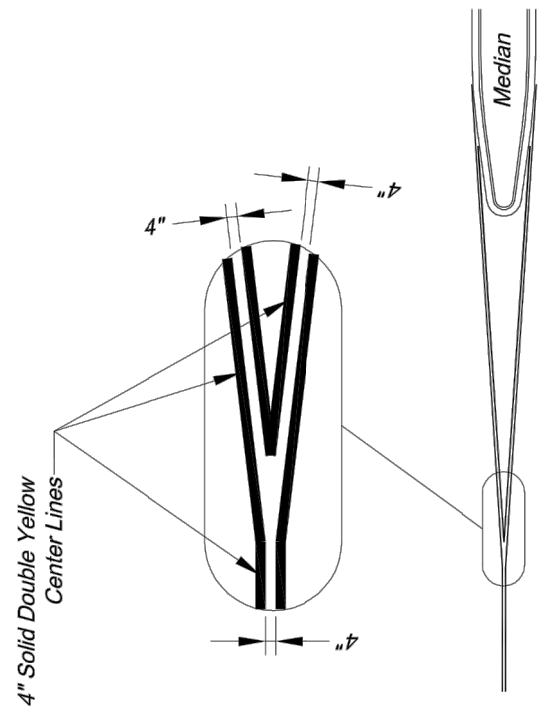
NOTES:
1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines or divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across alleyways.



TYPICAL MIBLOCK OR SCHOOL CROSS WALK



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY



TYPICAL MEDIAN NOSE CENTER LINE DETAIL

PAVEMENT MARKING GENERAL NOTES:
1. All pavement markings shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD), printed by the U.S. Department of Transportation, Federal Highway Administration.
2. All pavement markings shall be in accordance with the latest edition of Standard Alphabets for Highway Signs and Pavement Markings printed by the U.S. Department of Transportation, Federal Highway Administration.
3. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
4. Pavement markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
5. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a median.
6. Edge lines shall be marked on all non-curbed streets.

Sheet Name: ROADWAY MARKING DETAILS
Project: CITY OF LEE'S SUMMIT
Drawn By: AS
Checked By: JW
Date: 09/07/2009
Project: 1 OF 2

City of Lee's Summit
Public Works Department
Engineering Division
Lee's Summit, Missouri 64063
Phone: (816) 969-1800 Fax: (816) 969-1809



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
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11/22/19 As-Built

Traffic Control Details
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

Village at View High
Lee's Summit, Jackson County, Missouri

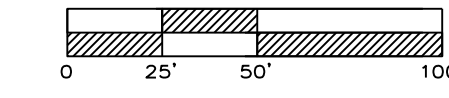
Professional Registration
Missouri
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Surveying 200500319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 62-54
Nebraska
Engineering CA2821



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

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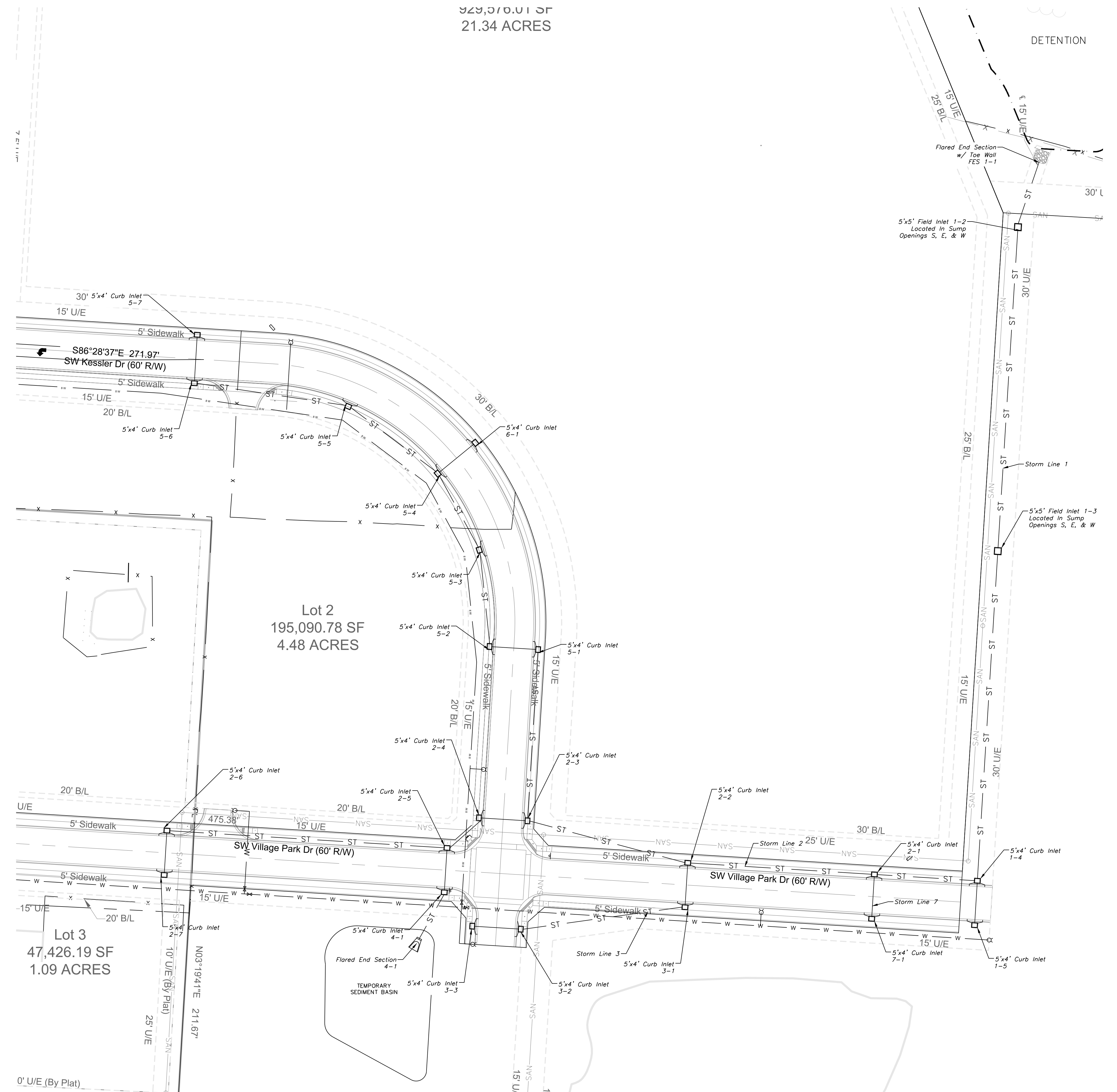
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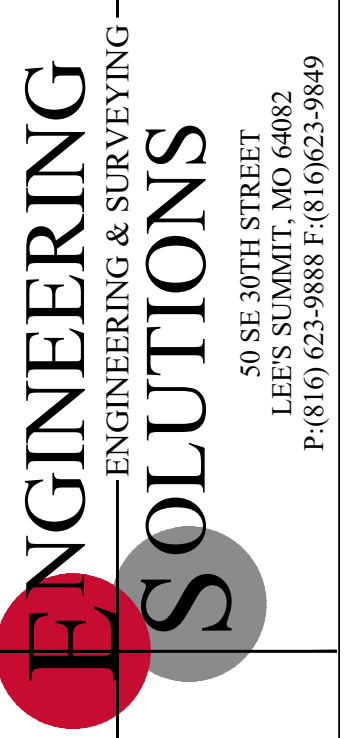
STORM SEWER GENERAL LAYOUT

SCALE: 1" = 50'

21.34 ACRES



DETENTION



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Surveying LS-218
Oklahoma
Engineering 62-54
Nebraska
Engineering CA2821

Project:
View High Project
Issue Date:
November 22, 2019

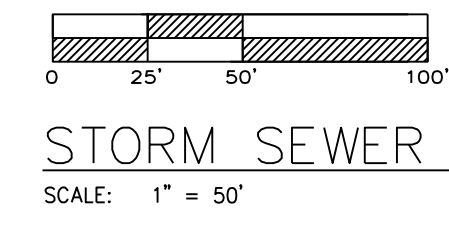
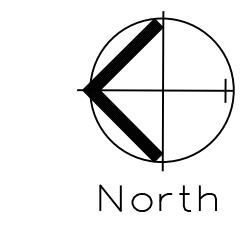
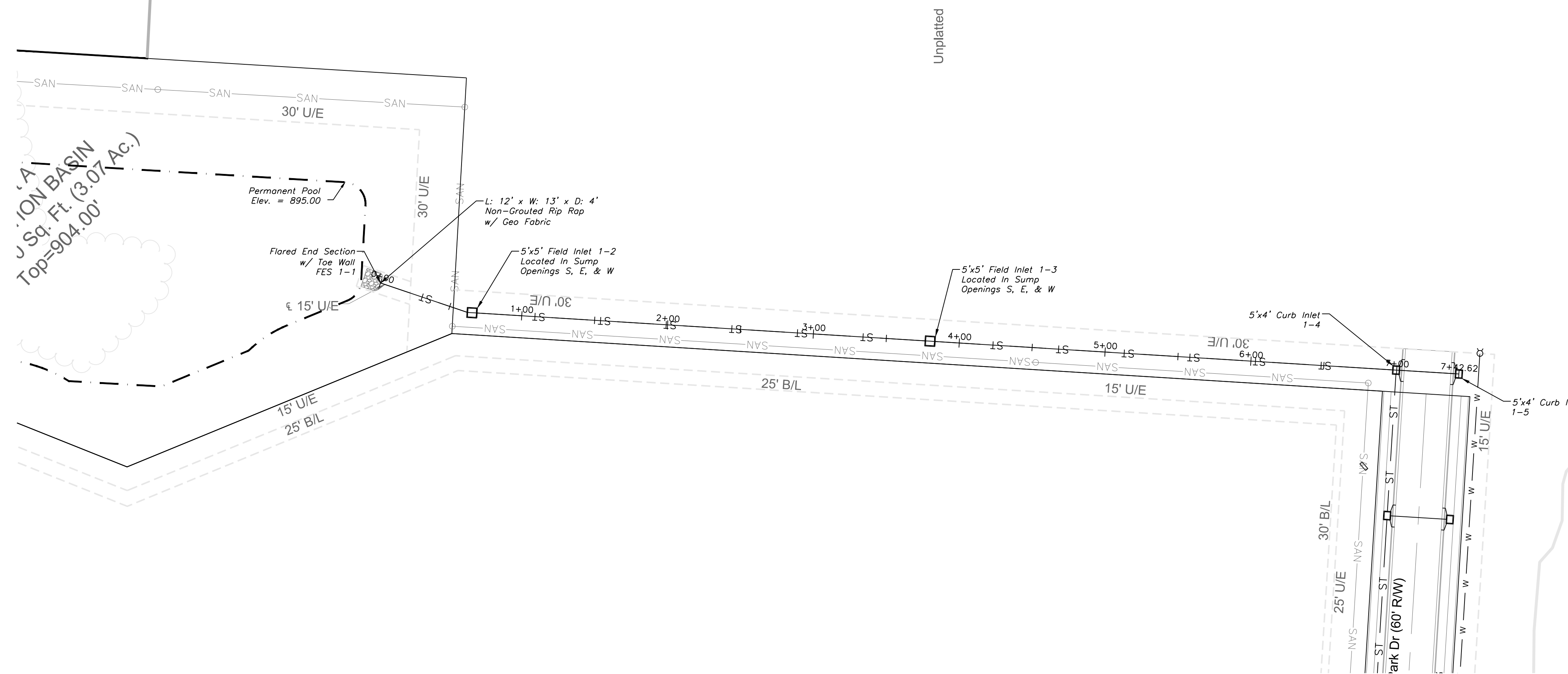
Storm Sewer General Layout
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Storm Sewer General Layout
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

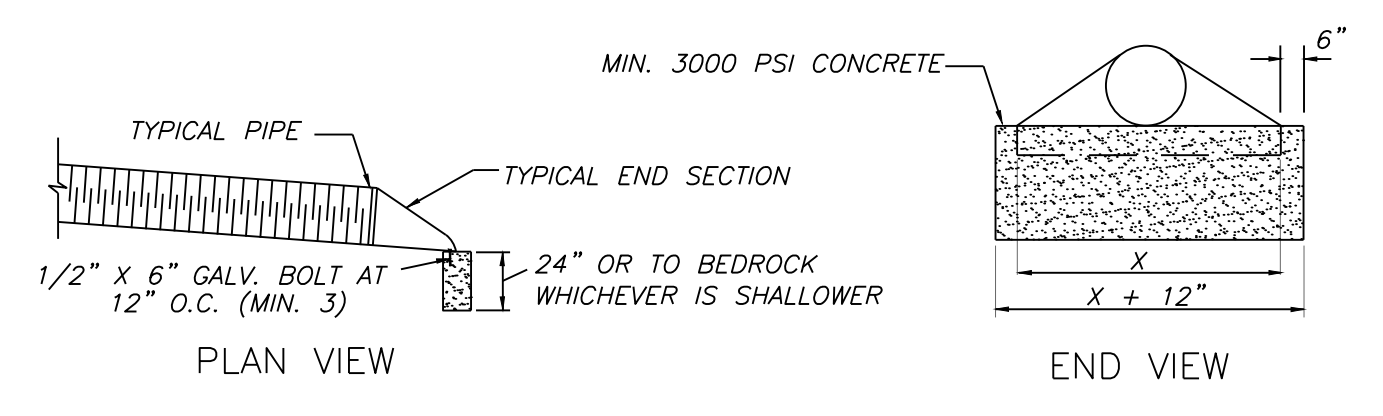
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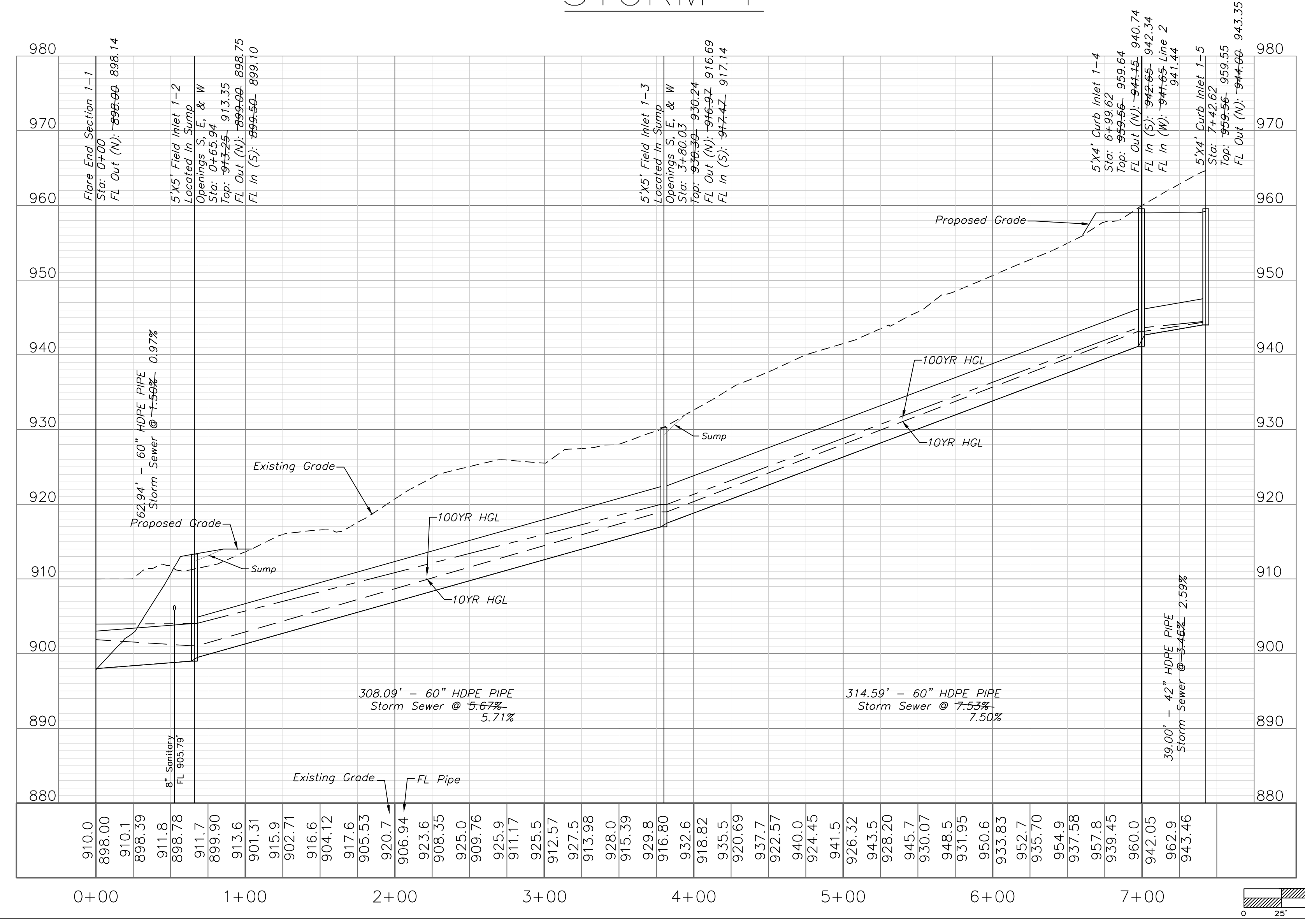


STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



TYPICAL TOEWALL DETAIL
N.T.S.

STORM 1



Field End Section #	1-1
---------------------	-----

$D_{50} = 0.2 \cdot D \cdot \left(\frac{Q}{\sqrt{g \cdot D^3 \cdot (2.5)^2 \cdot (4/3)}} \right)^{0.5} \cdot (D/Tw)$
 $Q = 189.68 \text{ cfs}$
 $D = 5 \text{ ft}$
 $Tw = 5 \text{ ft}$
 $g = 32.2 \text{ ft/s}^2$

$D_{50} = 7.37 \text{ ft}$

or

$D_{50} = \frac{0.692 \cdot (S-1)^{0.5} \cdot (V^2/2g)}{S}$
 $V = 9.56 \text{ fps}$
 $S = 1.6$
 $D_{50} = 1.64 \text{ ft}$

$D_{50} = \text{riprap size, m(ft)}$
 $Q = \text{design discharge, m}^3/\text{s (ft}^3/\text{s)}$
 $D = \text{culvert diameter (circular), m(ft)}$
 $Tw = \text{tailwater depth, m(ft)}$
 $g = \text{acceleration due to gravity, 9.81 m/s}^2 (32.2 \text{ ft/s}^2)$

$S = \text{Riprap Specific Gravity}$
 $D_{50} = \text{Median Rock Size (ft)}$
 $V = \text{Velocity at the exit of the dissipater, (ft/s)}$

Apron Length = $7 \cdot D_{50}$ 11.46 ft use 12.00 ft
 Apron Depth = $2 \cdot D_{50}$ 3.27 ft use 4.00 ft
 Apron Width = $3 \cdot D_{50} \cdot (2/3)^L$ 12.55 ft use 13.00 ft

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ENGINEERING & SURVEYING

50 SE 30TH STREET
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Engineering CA2821

Storm Sewer Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Project: View High Project
Issue Date: November 22, 2019

Storm Sewer Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

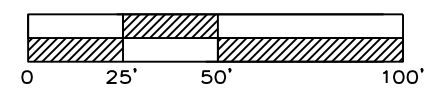
Matthew J. Schlicht
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KS PE 19071
OK PE 25226

REVISIONS

11/22/19 As-Built

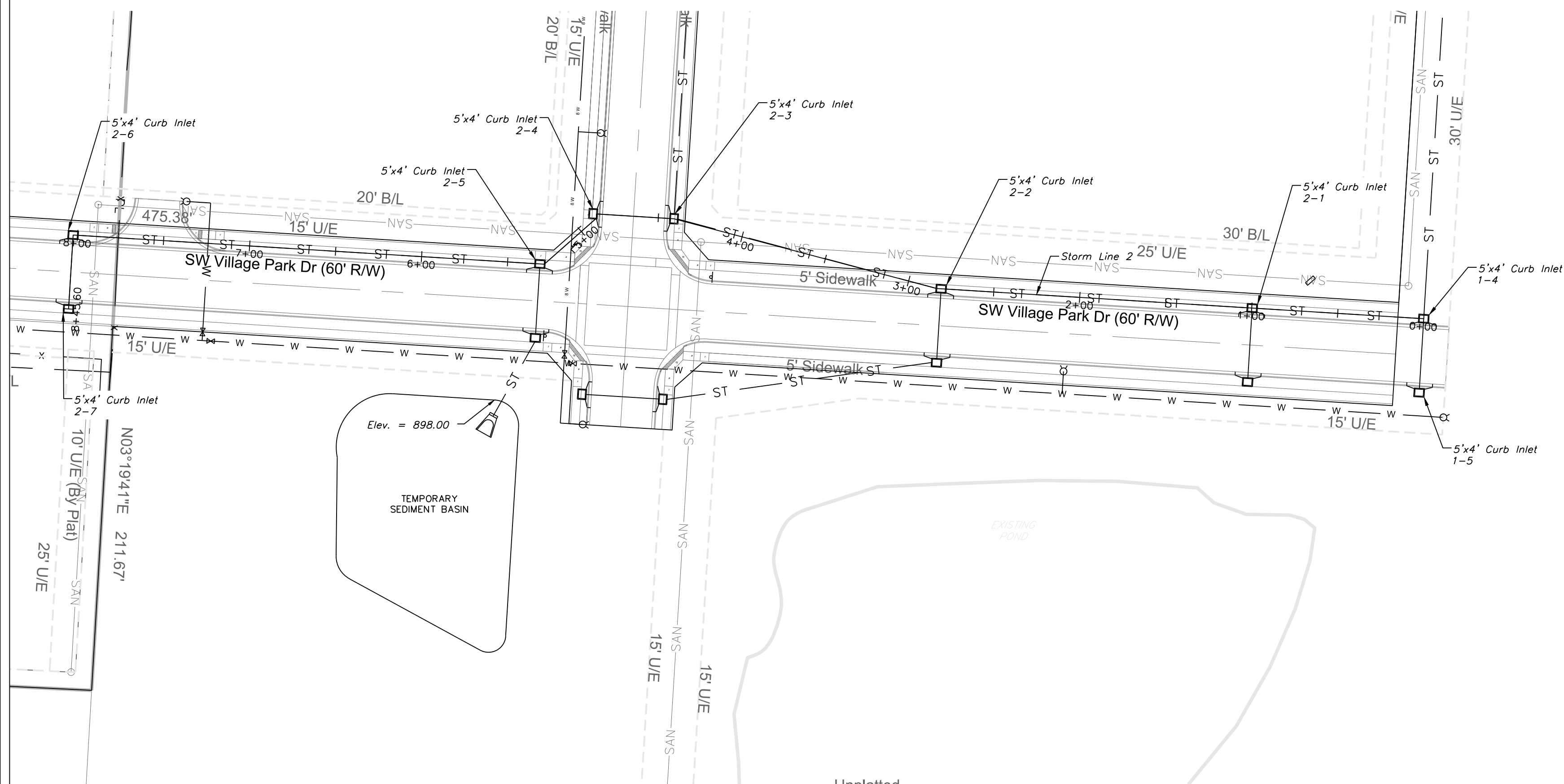
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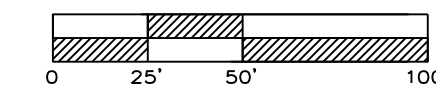
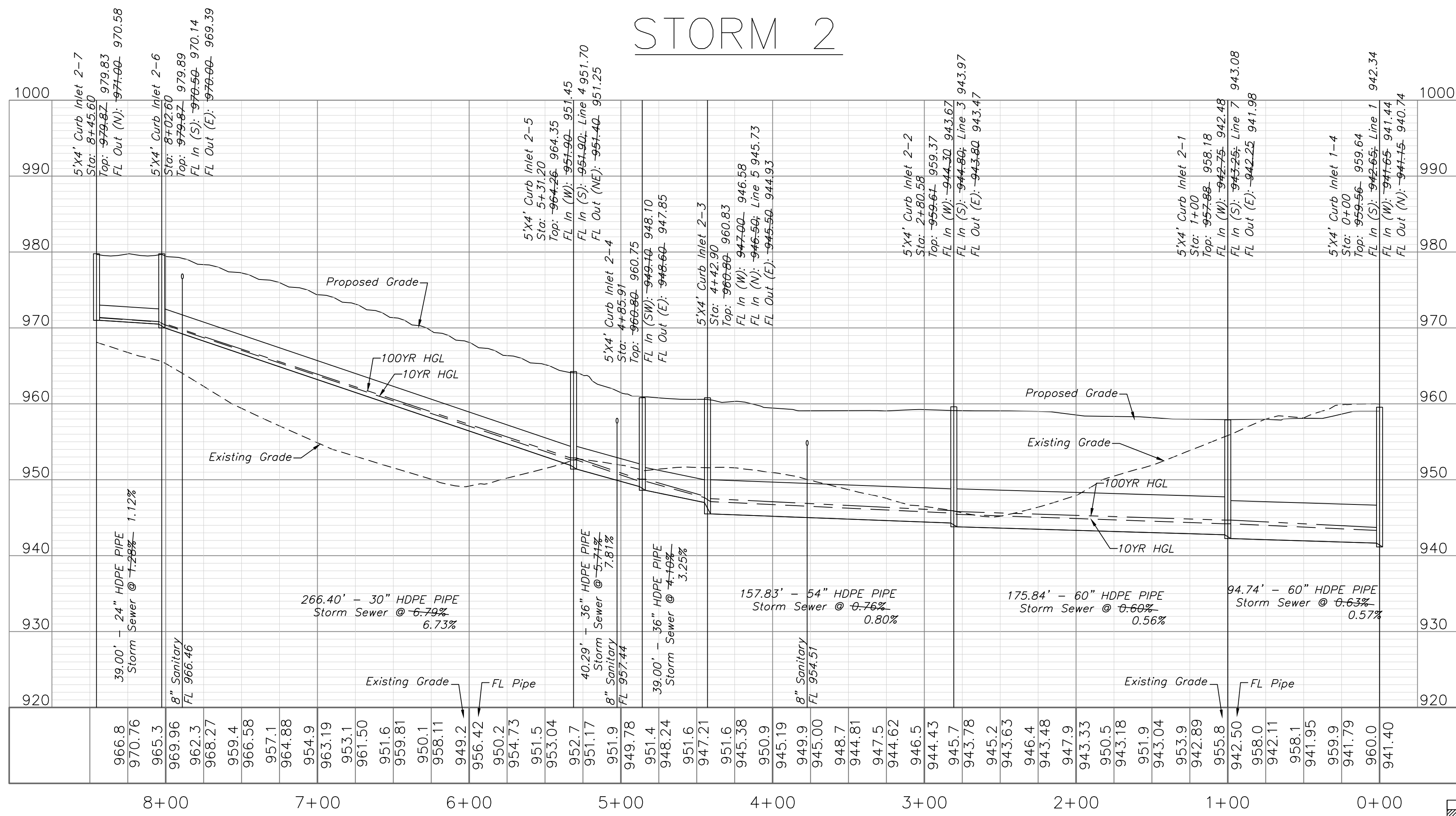


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

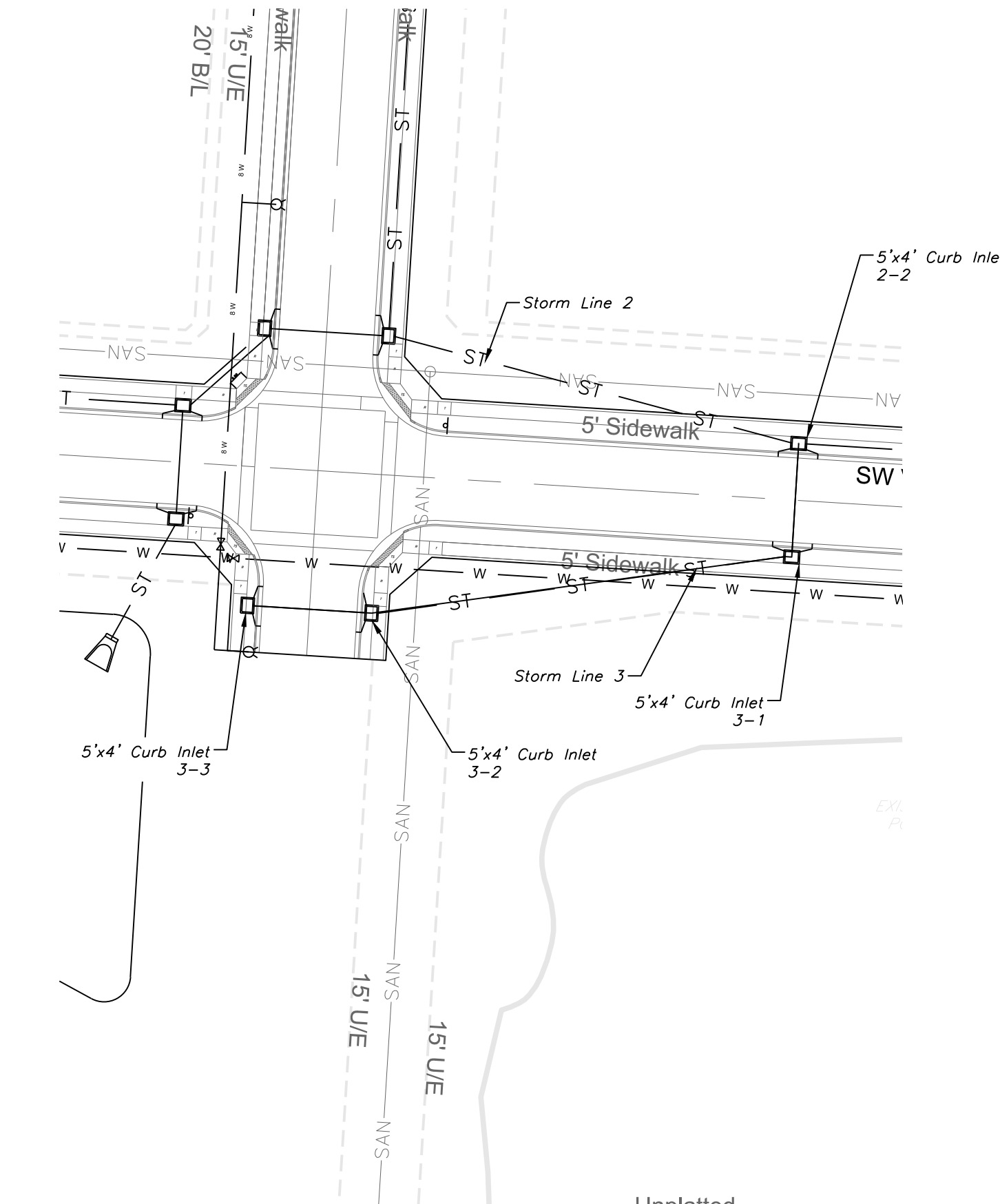


STORM 2

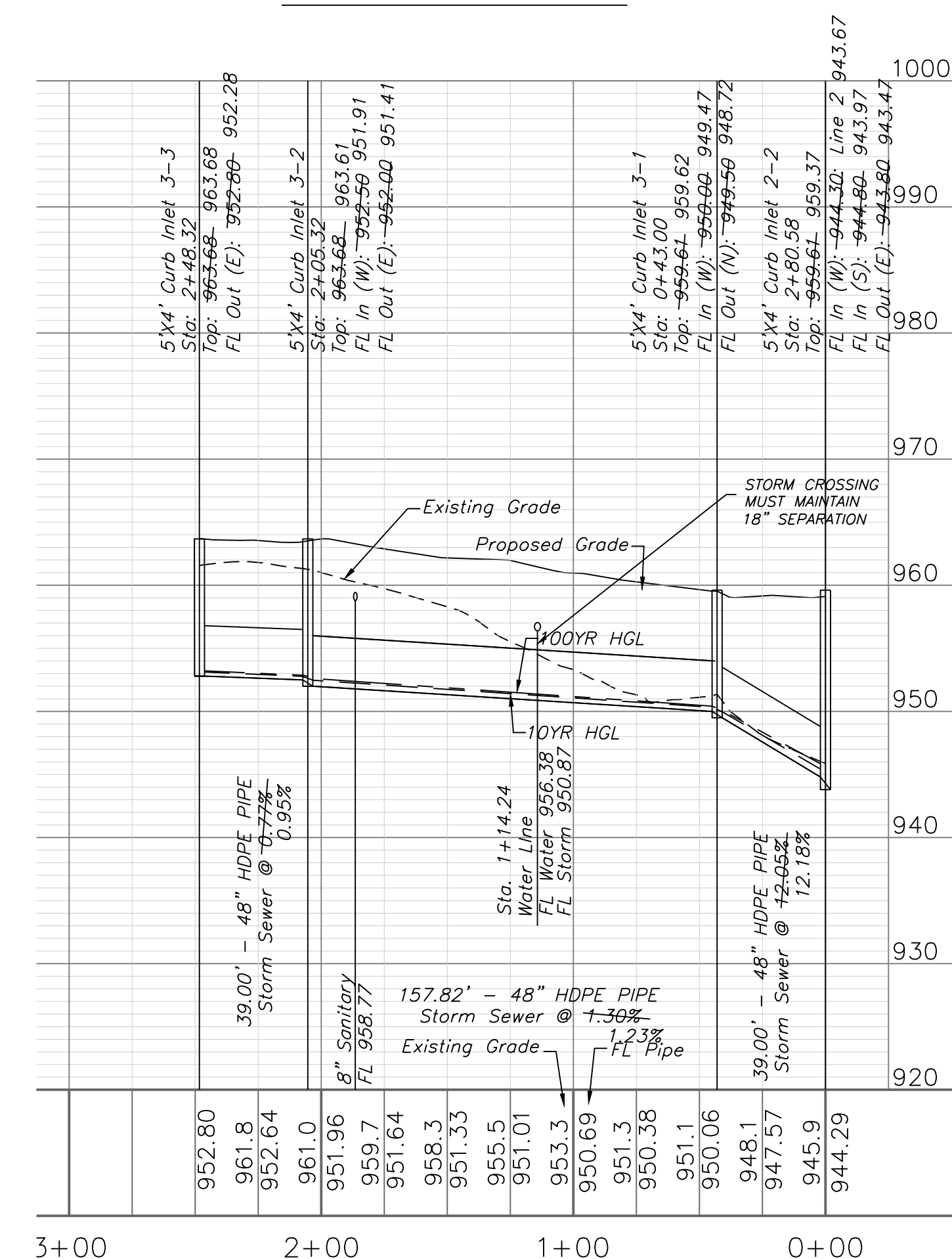


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

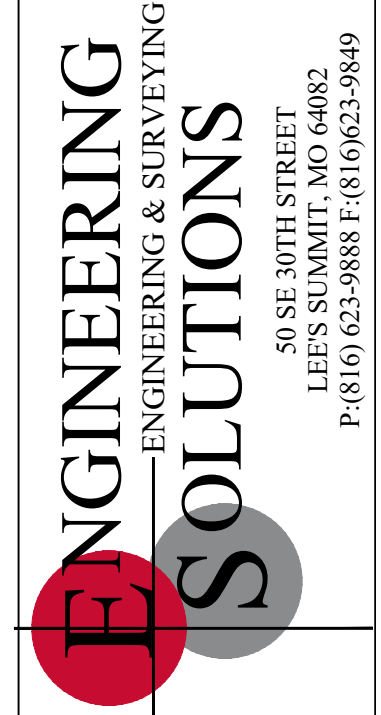


STORM 3



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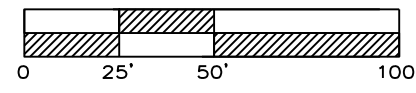
Professional Registration
Missouri
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Surveying 20050319-D
Kansas
Engineering E-1895
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
View High Project
Issue Date:
November 22, 2019

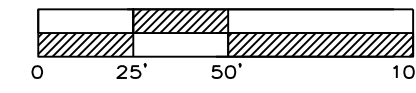
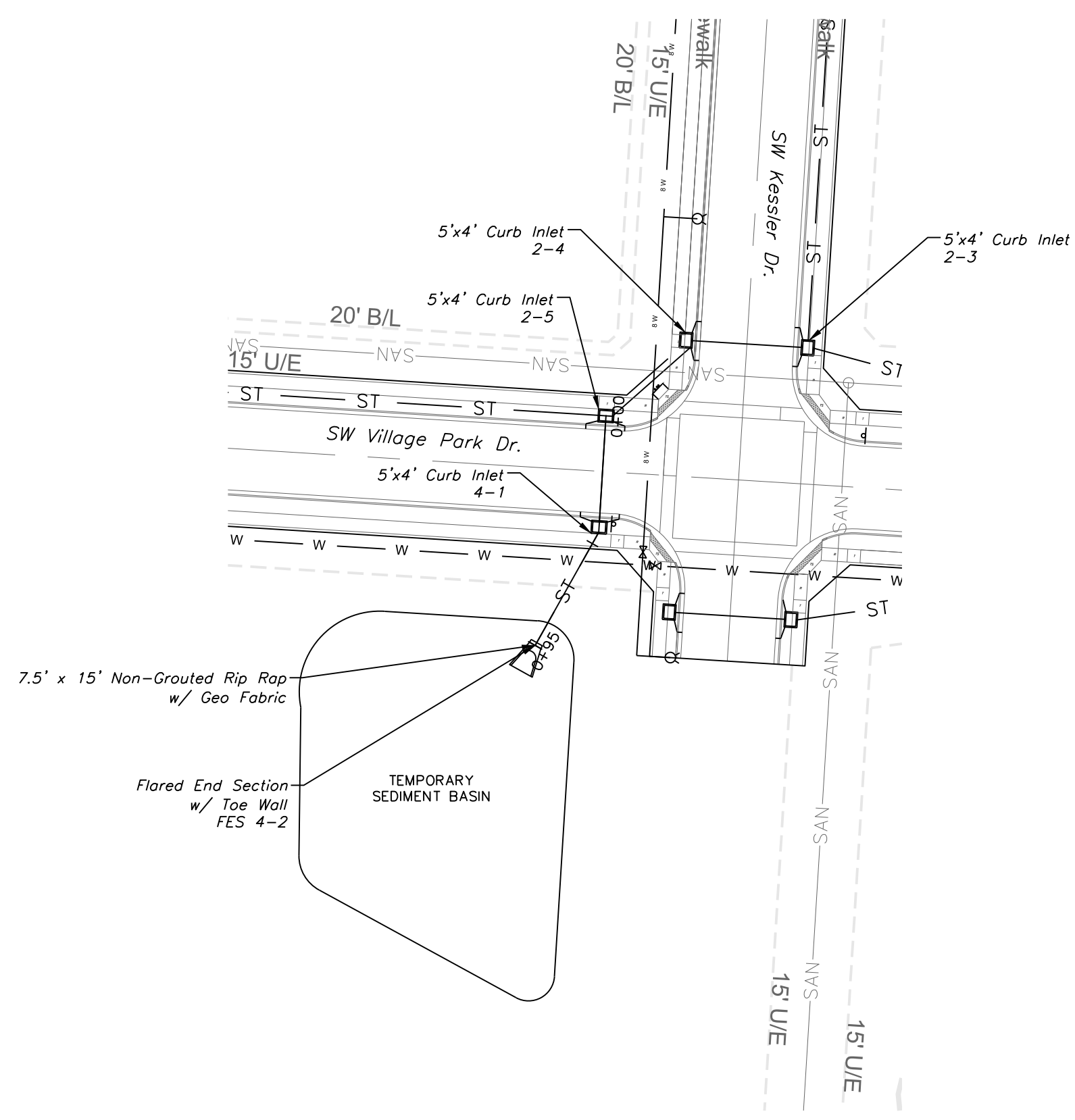
Storm Sewer Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25228

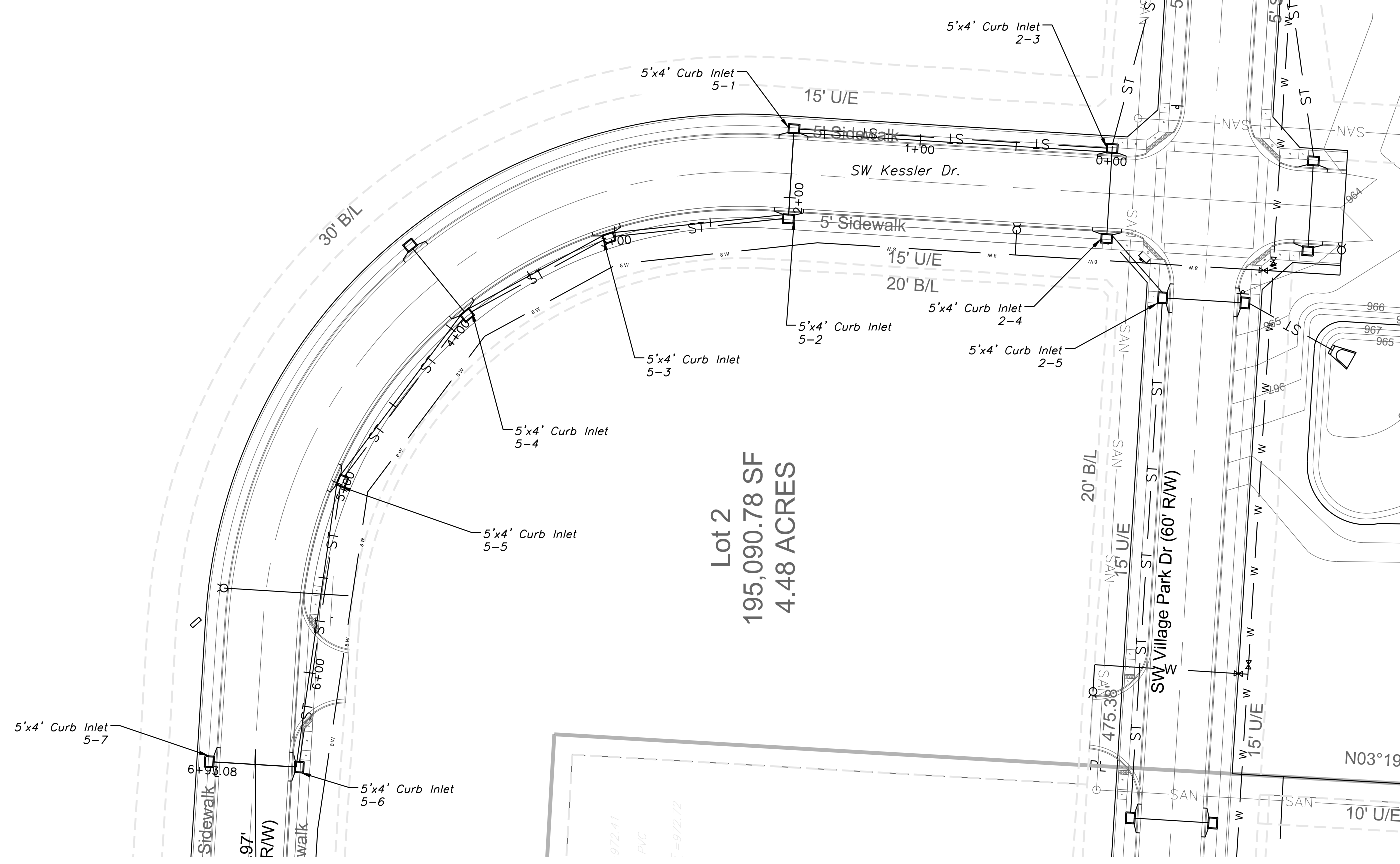
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STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'

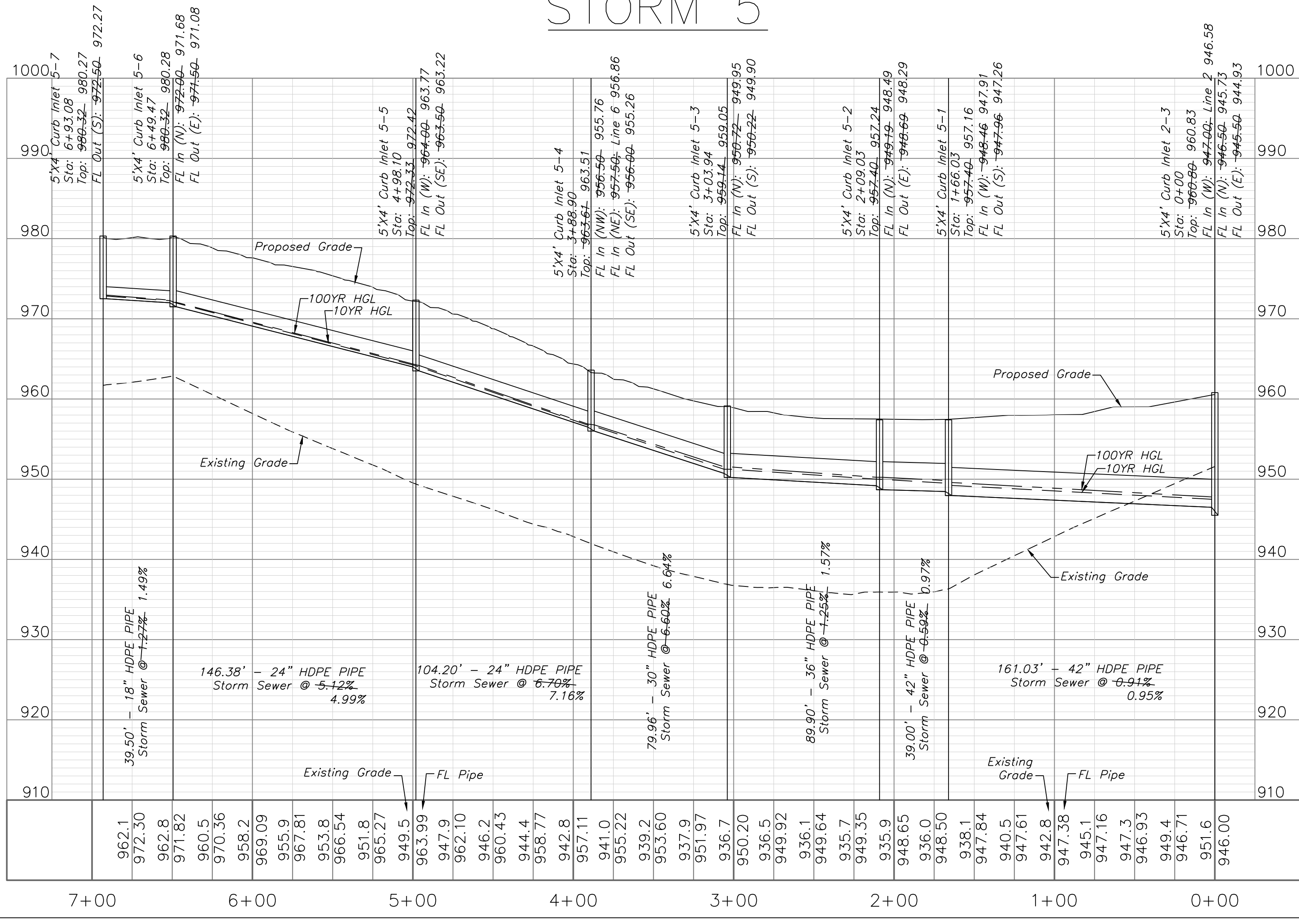
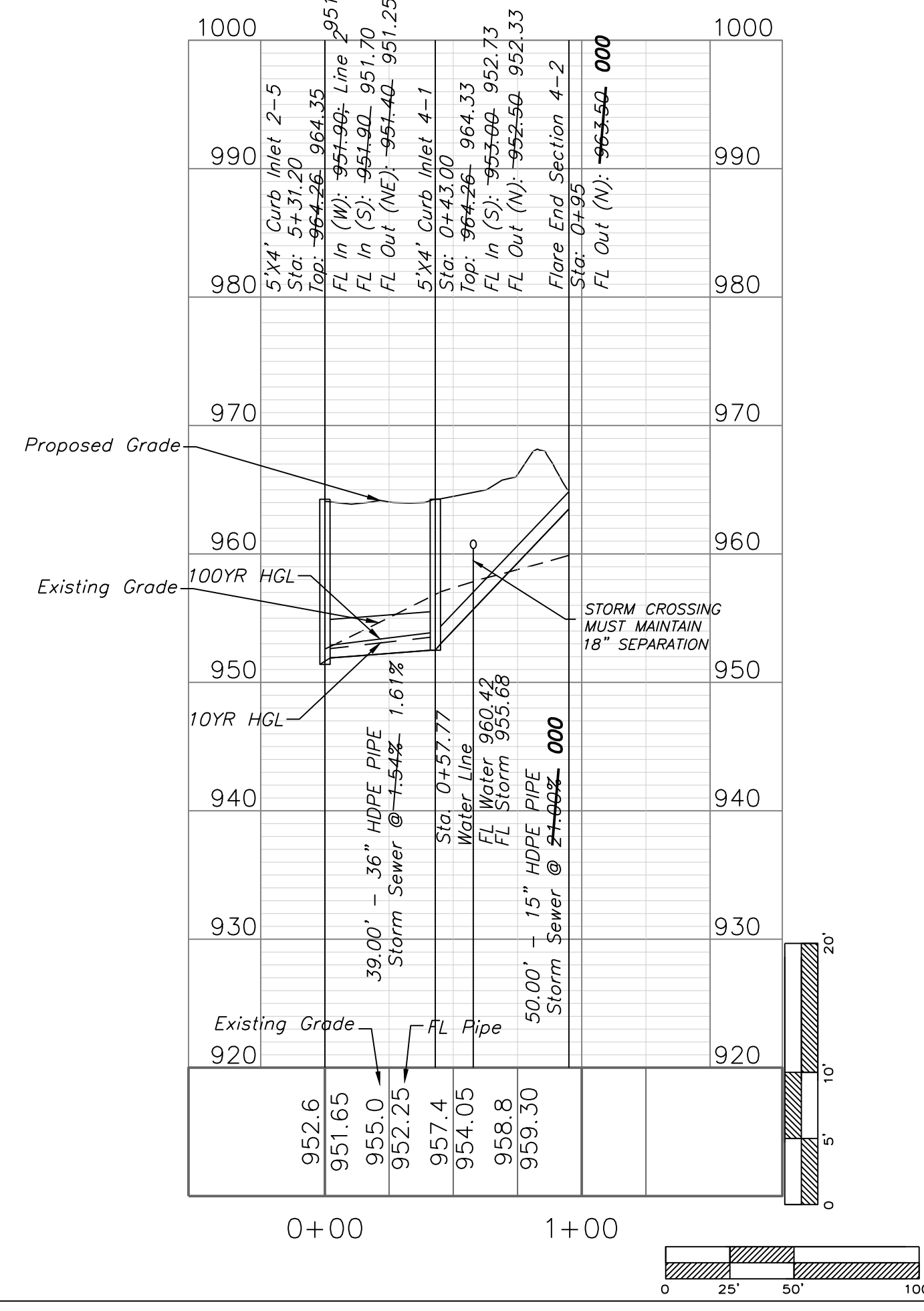


STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



STORM 5

STORM 4



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Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

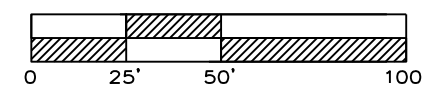
Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

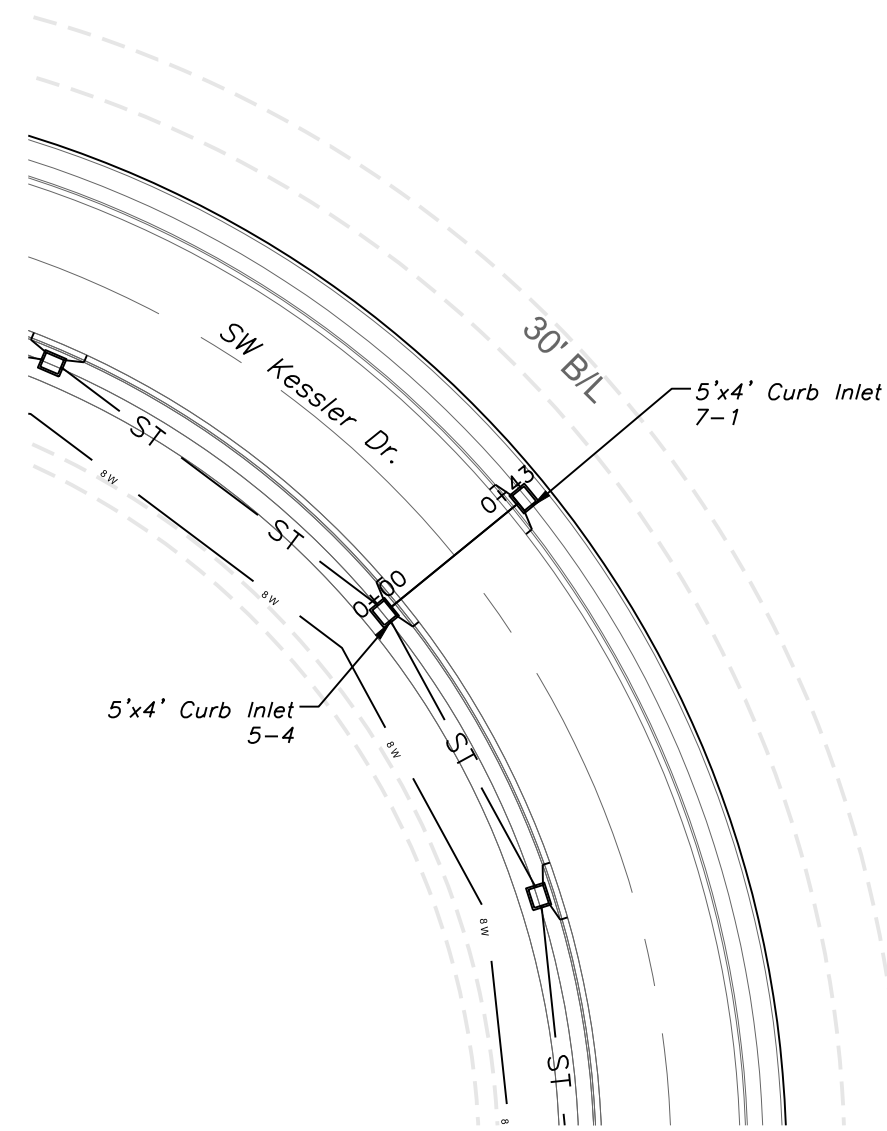
Storm Sewer Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 15226

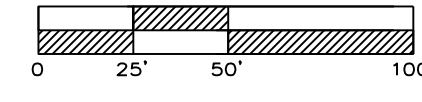
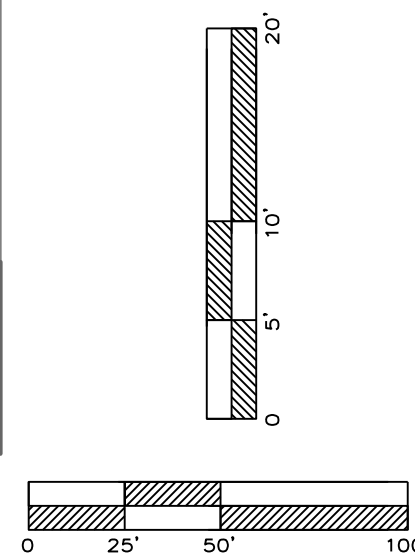
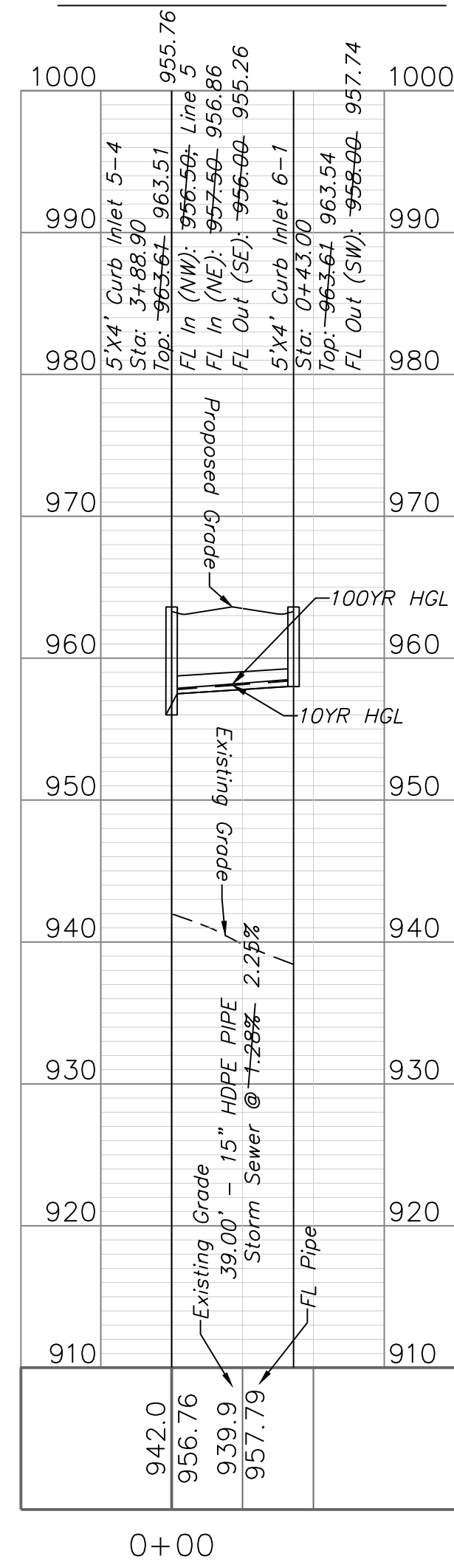
REVISIONS
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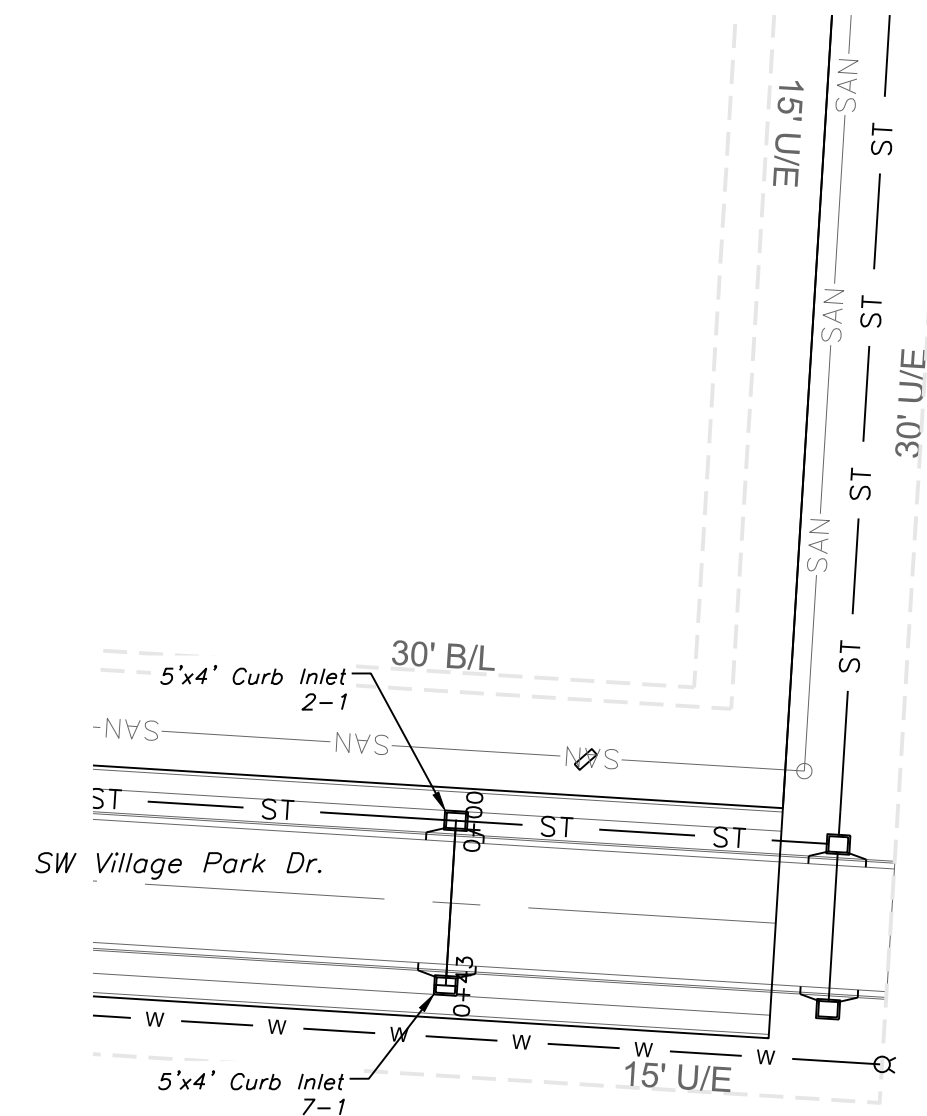
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



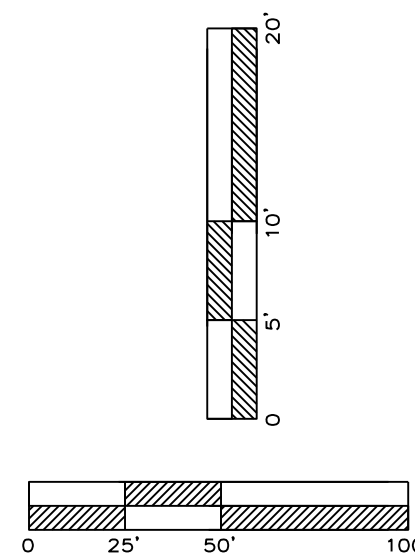
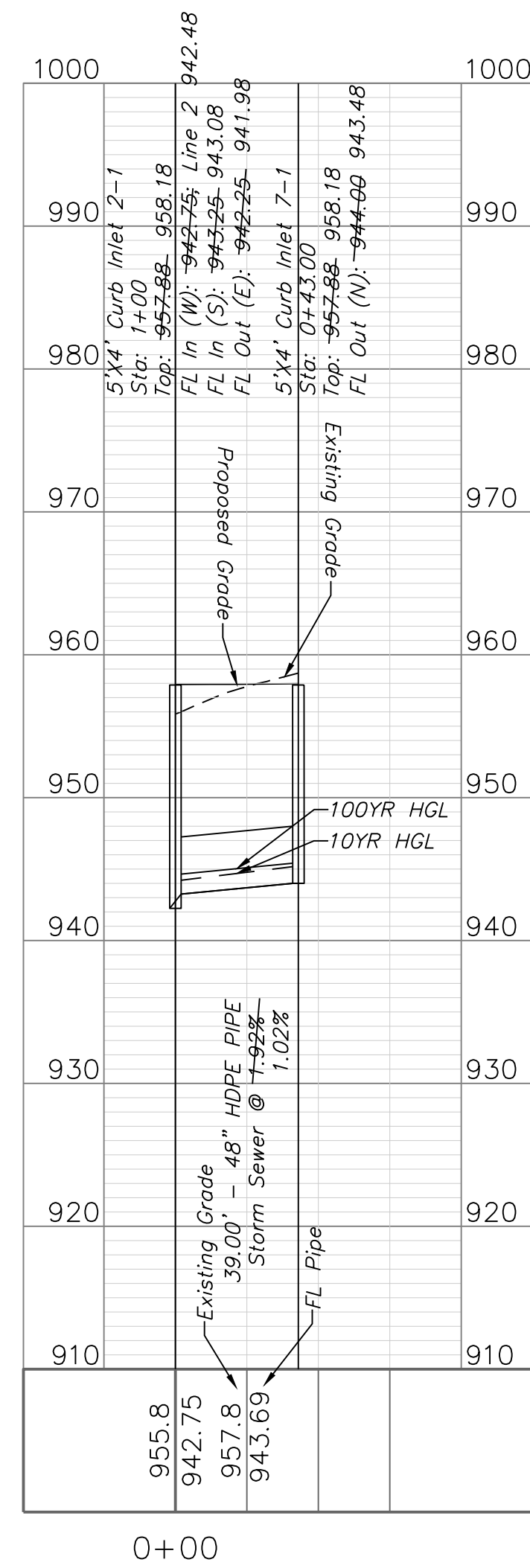
STORM 6



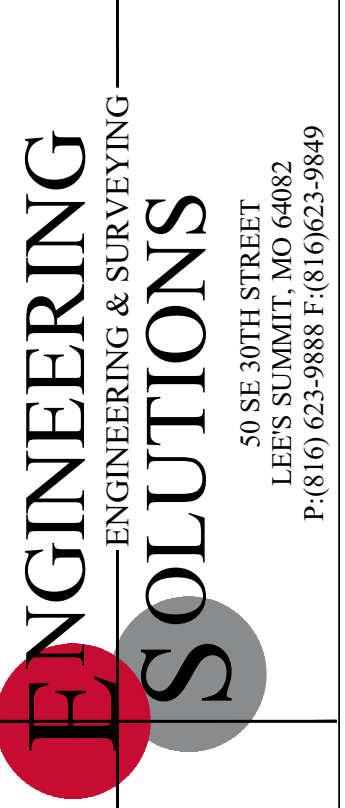
STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



STORM 7



"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.



Professional Registration
Missouri
Engineering 200502188-D
Surveying 200508319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
View High Project
Issue Date:
November 22, 2019

Storm Sewer Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Village At View High
Lee's Summit, Jackson County, Missouri

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

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