

THE TOWNHOMES AT CHAPEL RIDGE-LOT 15C
FINAL DEVELOPMENT PLAN
LOT 15C, CHAPEL RIDGE BUSINESS PARK

Part of Section 17, Township 48 North, Range 31 West
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

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 CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- 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.

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 ~ 298-1196
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 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

DEVELOPER:

CRCP INVESTMENTS, LLC
MIKE ATCHESON
3170 NE CARNEGIE DR. STE 400
LEE'S SUMMIT, MO 64064
(816) 875-2400

PROPERTY DESCRIPTION

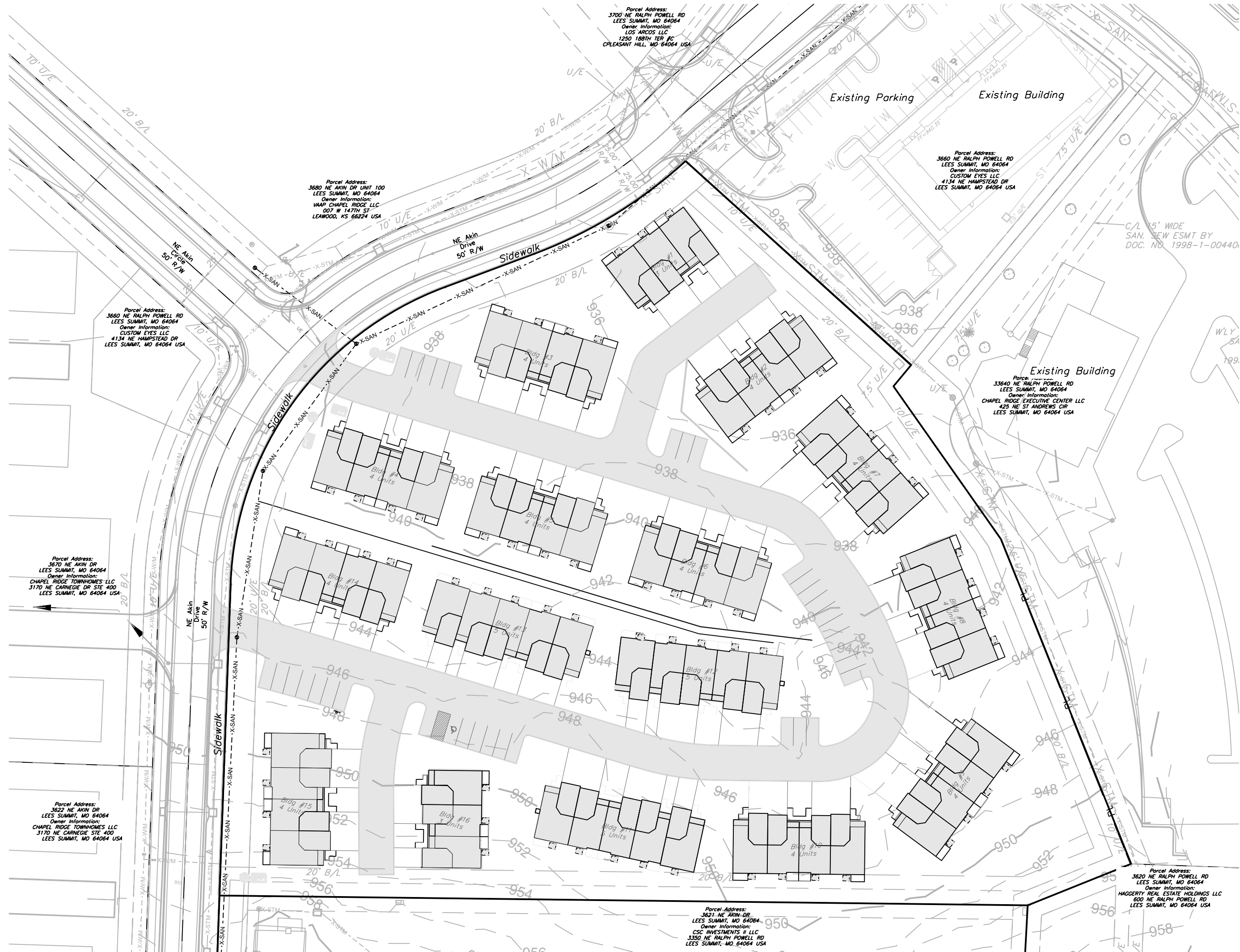
LOT 15C, CHAPEL RIDGE BUSINESS PARK LOTS 15B & 15CLOT 15C.

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 NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

FLOOD INFORMATION:

THE SUBJECT PROPERTY SURVEYED LIES WITHIN A FLOOD ZONE DESIGNATED ZONE (X), AREAS LOCATED OUTSIDE THE 100 YEAR FLOOD PLAIN, PER F.E.M.A. MAP, COMMUNITY PANEL NO. 29095C0430G EFFECTIVE DATE: JANUARY 20, 2017.



SITE LOCATION MAP

SCALE" 1"=60'

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
CONCRETE PAVING	S.Y.	4,270.00
4" COMPACTED AGGREGATE BASE	S.Y.	4,750.00
CURBING	FT	2,856.00
RETAINING WALL	SFF	1,586.00
CLEARING, GRADING & GRUBBING	LS	1
STORM PIPE		
16" HDPE	FT	489.21
18" HDPE	FT	49.70
24" HDPE	FT	207.61
CONNECTION TO EX. INLET	UNIT	1.00
8" PVC SDR 26	LF	1,406.02
6" PVC SDR 26 Service Line	LF	1,590.00
TRACER WIRE AND EQUIPMENT	FT	1,590.00
1" Type K Soft Copper Water Service Line	FT	900.00
2" Type K Soft Copper Water Service Line	FT	1,222.00
WATER METER		
8" C900 PVC CLASS 200	FT	473.00
8" TAPPING SLEEVE & VALVE	UNIT	1.00
THRUST BLOCKS	UNIT	1.00
FIRE HYDRANT ASSEMBLY	UNIT	1.00
BACKFLOW VAULT	UNIT	4.00

ALL PAVING ON THE PARKING LOT WILL COMPLY WITH THE UNIFIED DEVELOPMENT ORDINANCE ARTICLE 8 IN TERMS OF PAVING THICKNESS AND BASE

Site Impervious Area

Total Area	5.42 acres
Proposed Apartment Site	
Site Area	5.42 Acres
Building	56,240.75 sq. ft.
Parking/Sidewalk	59,047.79 sq. ft.
Impervious Area	115,288.54 sq. ft. (48.83% of Site)
Total Units	65
Density	11.99 units per acre

Parking:

Provided	
164 Standard (1 ADA Accessible)	
Required	
164 Standard (1 ADA Accessible)	
BUILDING	
Driveway	1 PER UNIT = 65
Garage	1 PER UNIT = 65
Total per Unit	65 UNITS x 2 = 130
Common/Visitor	34
Total Parking Spaces	164

Site Improvement Notes

Sanitary Sewer Improvements
-The site will utilize the existing sanitary sewer on the east side of NE Akin Drive

Water Main Improvements
-The existing 8" water main located on the west side of NE Akin Drive

Storm Sewer
-Enclosed pipe systems and inlets will collect and convey the onsite storm water runoff and direct it toward the existing public storm sewer system.

Storm Water Detention
-The site will utilize the existing regional detention facility.

Common Area
-HDA will be responsible for all maintenance

INDEX OF SHEETS:

- C.001 ~ COVER SHEET
- C.100 ~ SITE PLAN
- C.101 ~ DIMENSION PLAN
- C.200 ~ GRADING PLAN
- C.201 ~ SPOT ELEVATIONS
- C.202 ~ PRIVATE DRIVE PLAN AND PROFILE
- C.203 ~ PRIVATE DRIVE PLAN AND PROFILE
- C.204 ~ RETAINING WALL PLAN AND PROFILE
- C.300 ~ UTILITY PLAN
- C.301 ~ STORM SEWER PLAN & PROFILE
- C.302 ~ STORM SEWER PLAN & PROFILE
- C.400 ~ SANITARY SERVICE PLAN
- C.401 ~ SANITARY SEWER "A" & "B" PLAN & PROFILE
- C.402 ~ SANITARY SEWER "C" & "D" PLAN & PROFILE
- C.600 ~ STANDARD DETAILS
- C.601 ~ STANDARD DETAILS
- C.602 ~ STANDARD DETAILS
- L.100 ~ LANDSCAPE PLAN
- L.101 ~ LANDSCAPE PLAN DETAILS

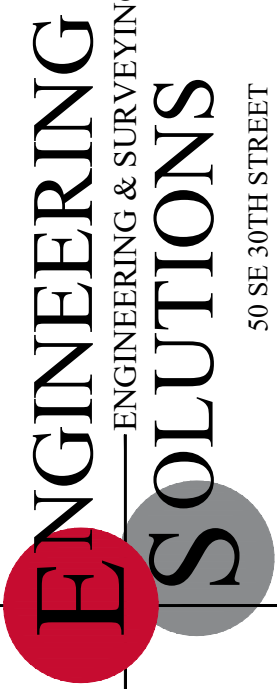
LEGEND:

- 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.

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/14/2021

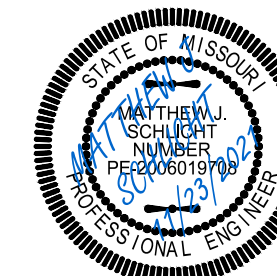


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500619-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

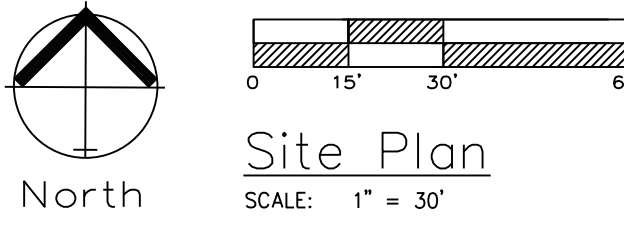
Project:
CHAPEL RIDGE LOT
15, LSMO
Issue Date:
July 15, 2021

COVER SHEET
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri

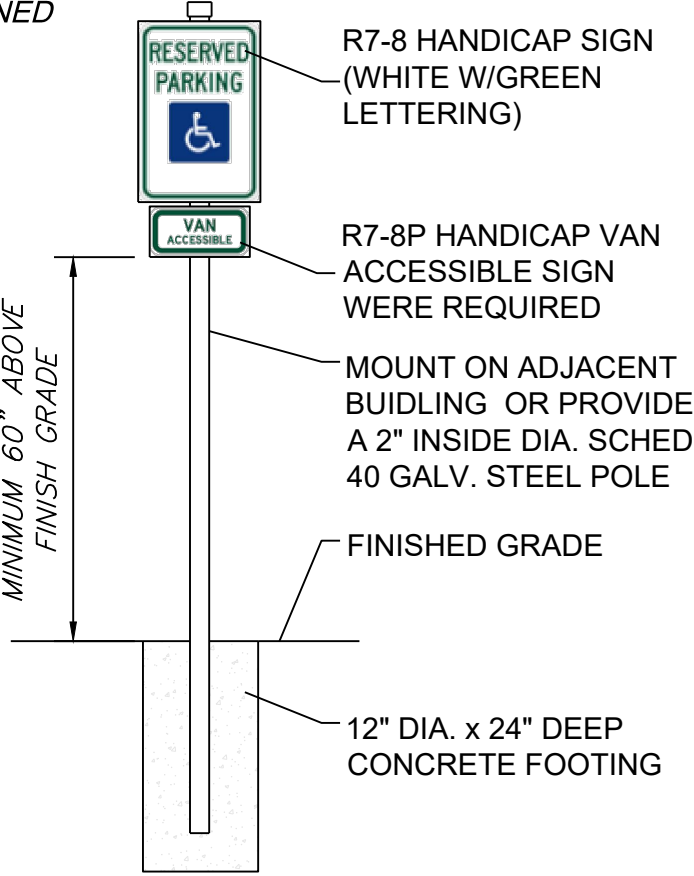


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 255226

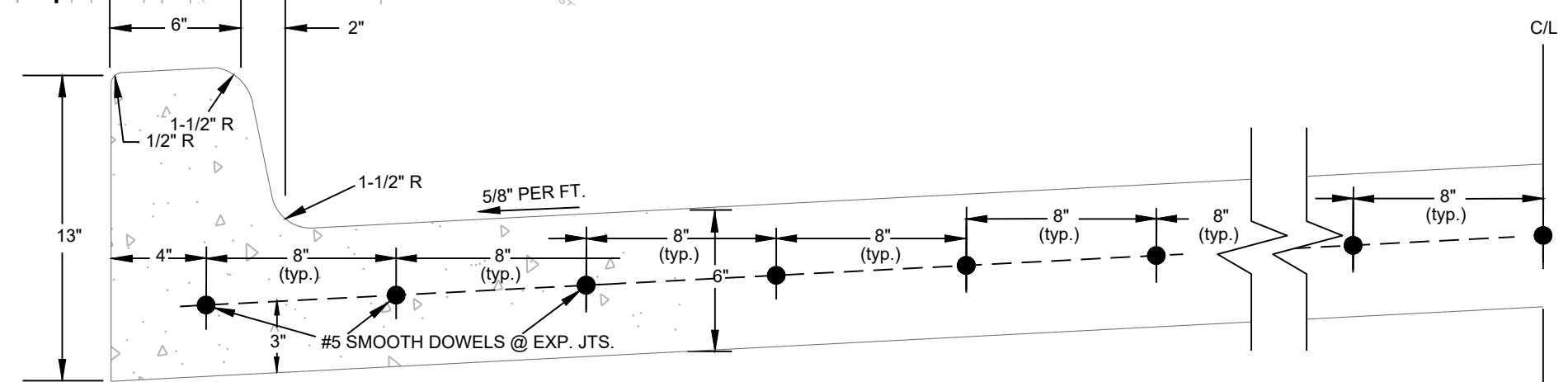
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REV. 11/29/2021	



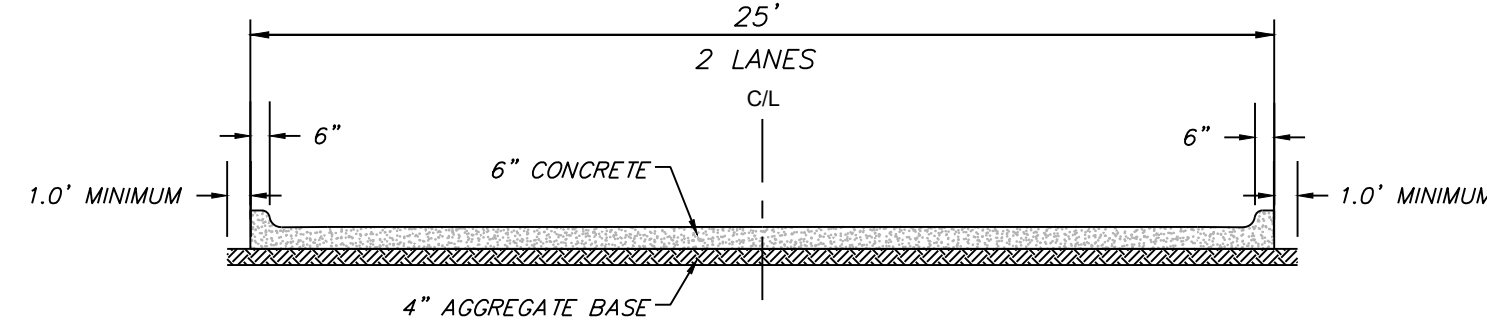
SIGN MAY BE WALL MOUNTED DIRECTLY TO BUILDING. DIMENSIONS MUST BE MAINTAINED



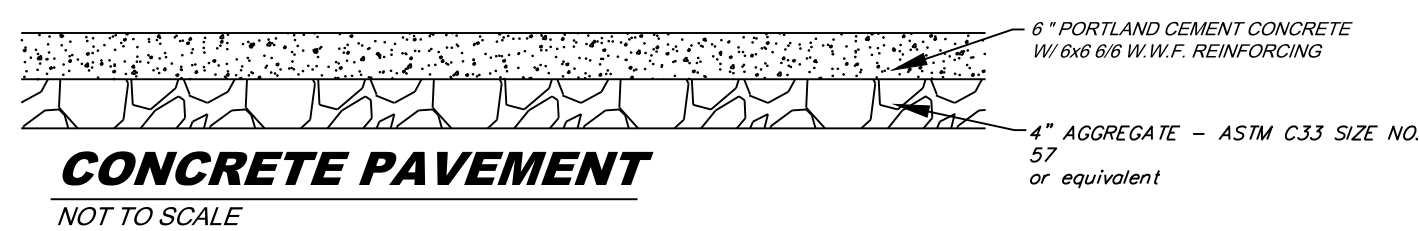
HANDICAP SIGN DETAIL
NOT TO SCALE



**TYPE CG-1
STRAIGHT BACK CURB & GUTTER
CONCRETE DRIVE DETAIL**
N.T.S.



**NEW PRIVATE
CONCRETE DRIVE DETAIL**
N.T.S.



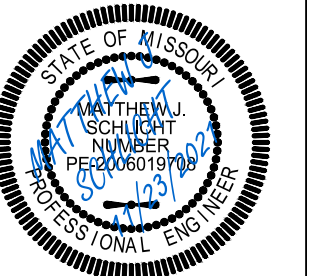
CONCRETE PAVEMENT
NOT TO SCALE



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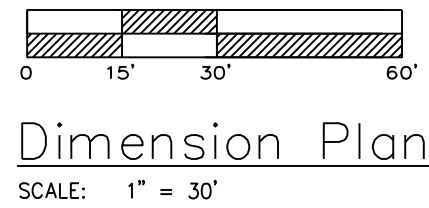
Project:
Chapel Ridge Lot
15, L5MO
Issue Date:
July 15, 2021

SITE PLAN
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



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KS PE 19071
OK PE 25226

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

Project:
Chapel Ridge Lot
15, LSMD
Issue Date:
July 15, 2021

Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

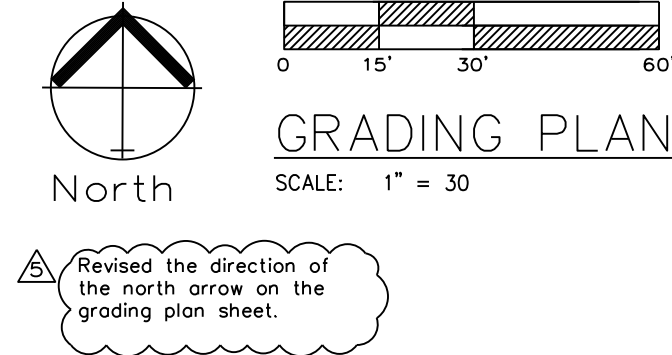
DIMENSION PLAN
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



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KS PE 19071
OK PE 25226

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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.

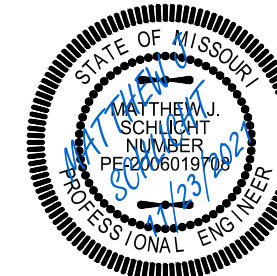
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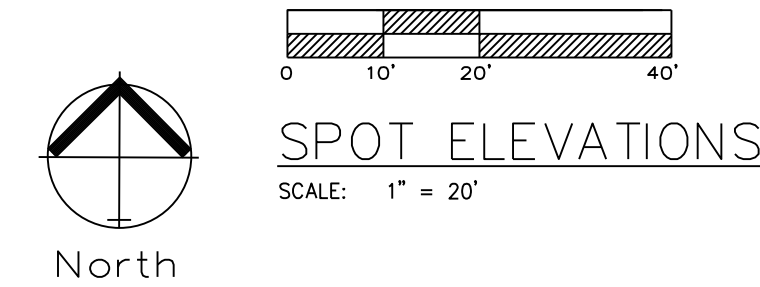
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Surveying 2005006189-D
Kansas
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Surveying LS-218
Oklahoma
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Nebraska
Engineering CA2821

Project:
CHAPEL RIDGE LOT
15, LSMD
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Grading Plan
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



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REV. 11/29/2021	



Legend:

- EX TC = Existing Top of Curb
- EX FG = Existing Finished Grade
- FG = Finished Grade
- TC = Top of Curb
- TW = Top of Wall
- BW = Bottom of Wall

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ENGINEERING
ENGINEERING & SURVEYING
SOLUTIONS

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

Professional Registration

Missouri
Engineering 2005002188-D
Surveying 2005000518-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:

CHapel Ridge Lot 15, LSMO

Issue Date:

July 15, 2021

Spot Elevations
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
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KS PE 19071
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REV. 10/18/2021

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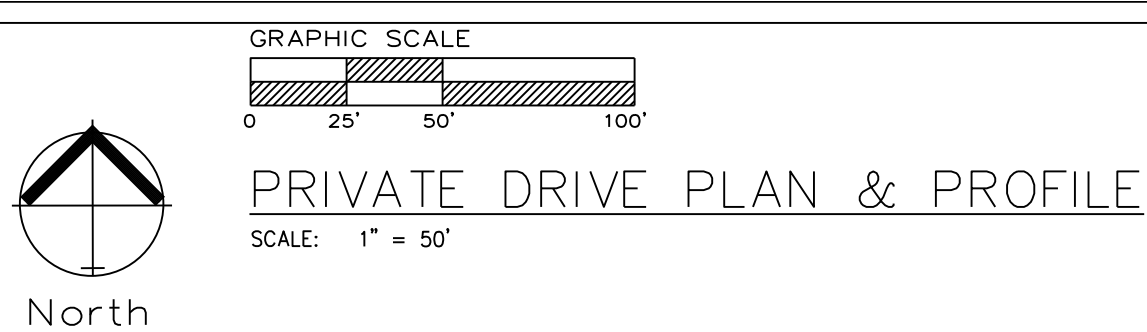
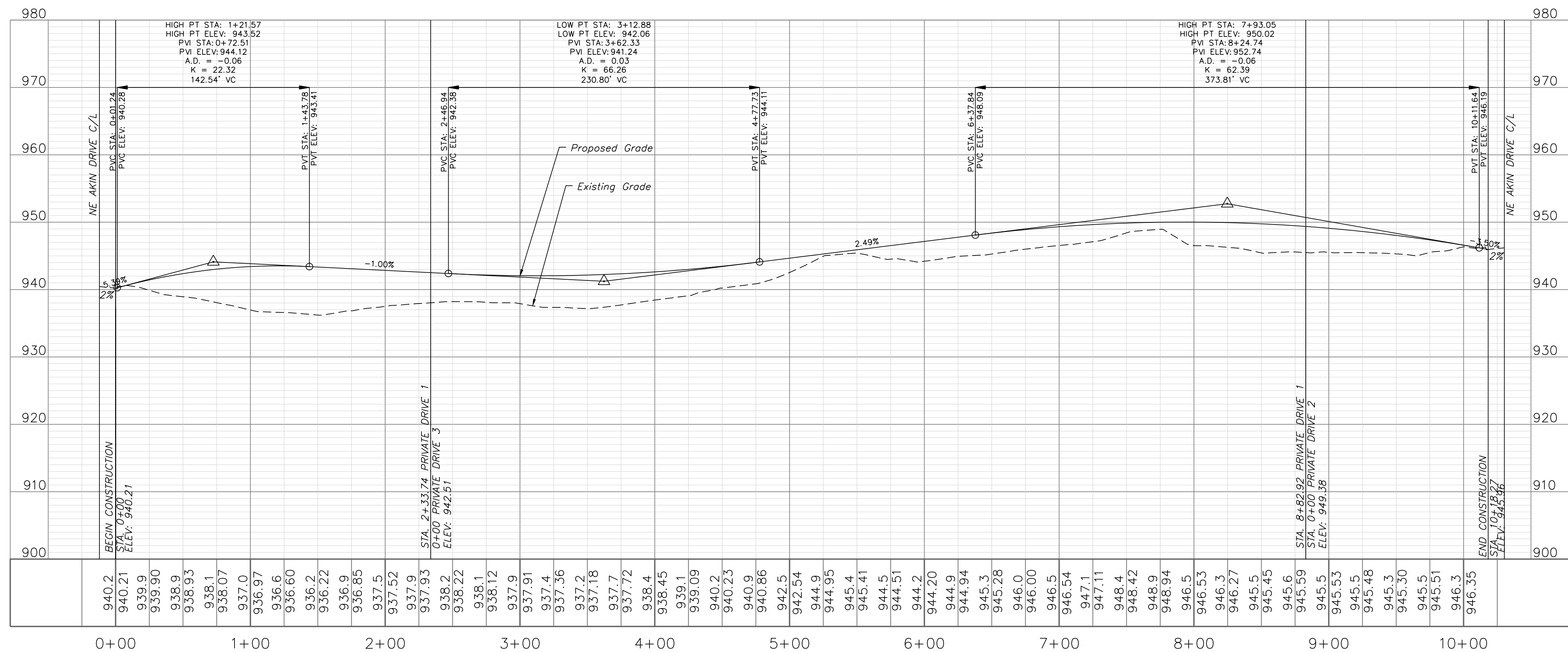
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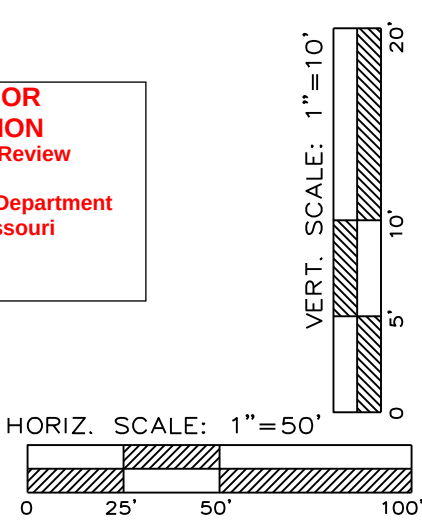
C.201



PRIVATE DRIVE 1



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ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEES SUMMIT, MO 64082
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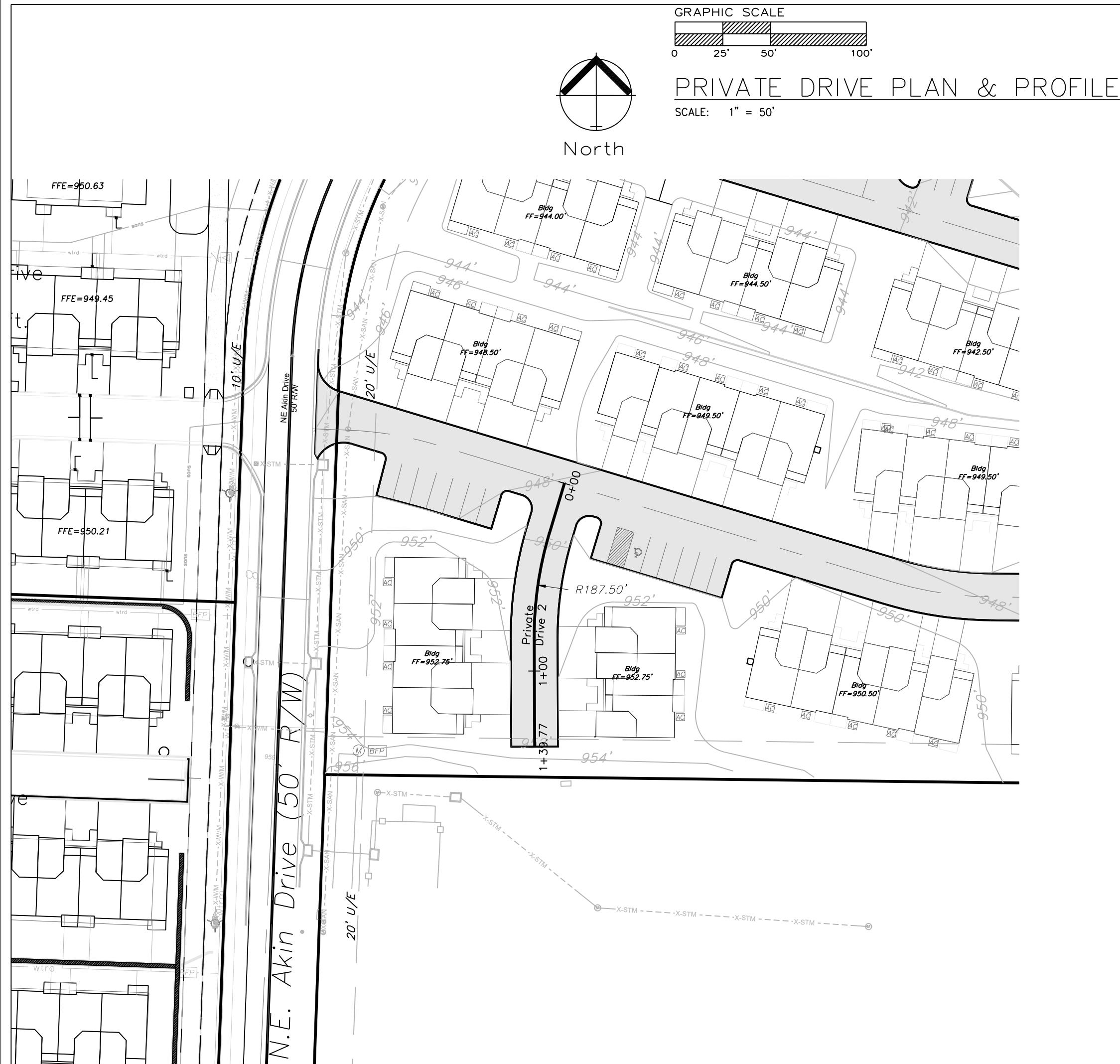
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Missouri
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Nebraska
Engineering CA2821

Project: Chapel Ridge Townhomes
15, L5MO
Issue Date: July 15, 2021

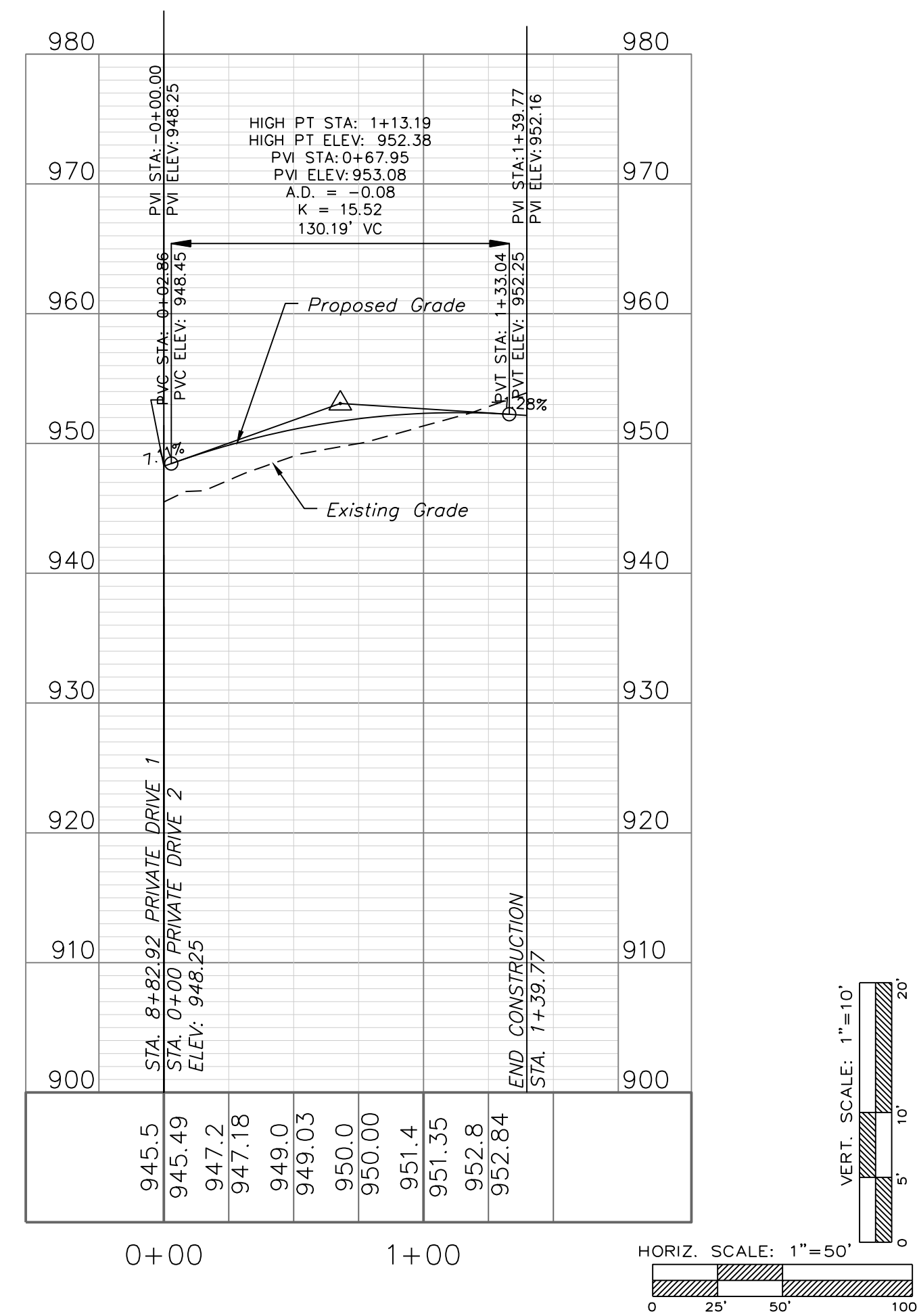
Private Drive Plan and Profile
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25528
REVISIONS
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REV. 11/29/2021

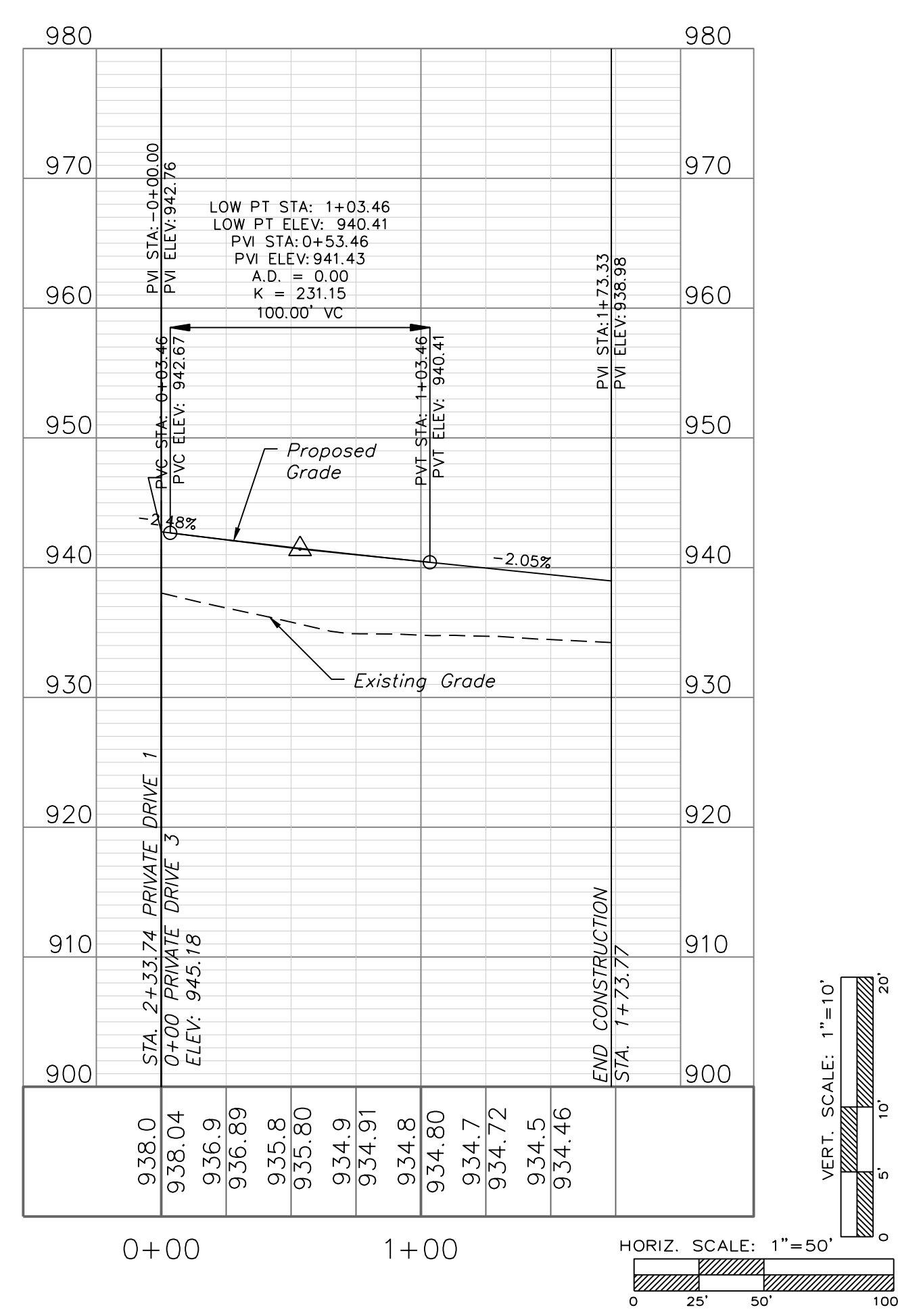
C. 202



PRIVATE DRIVE 2



PRIVATE DRIVE 3



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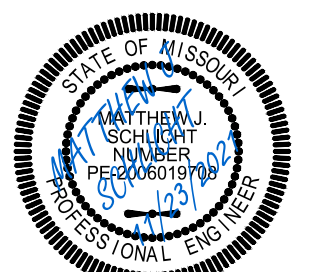


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Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

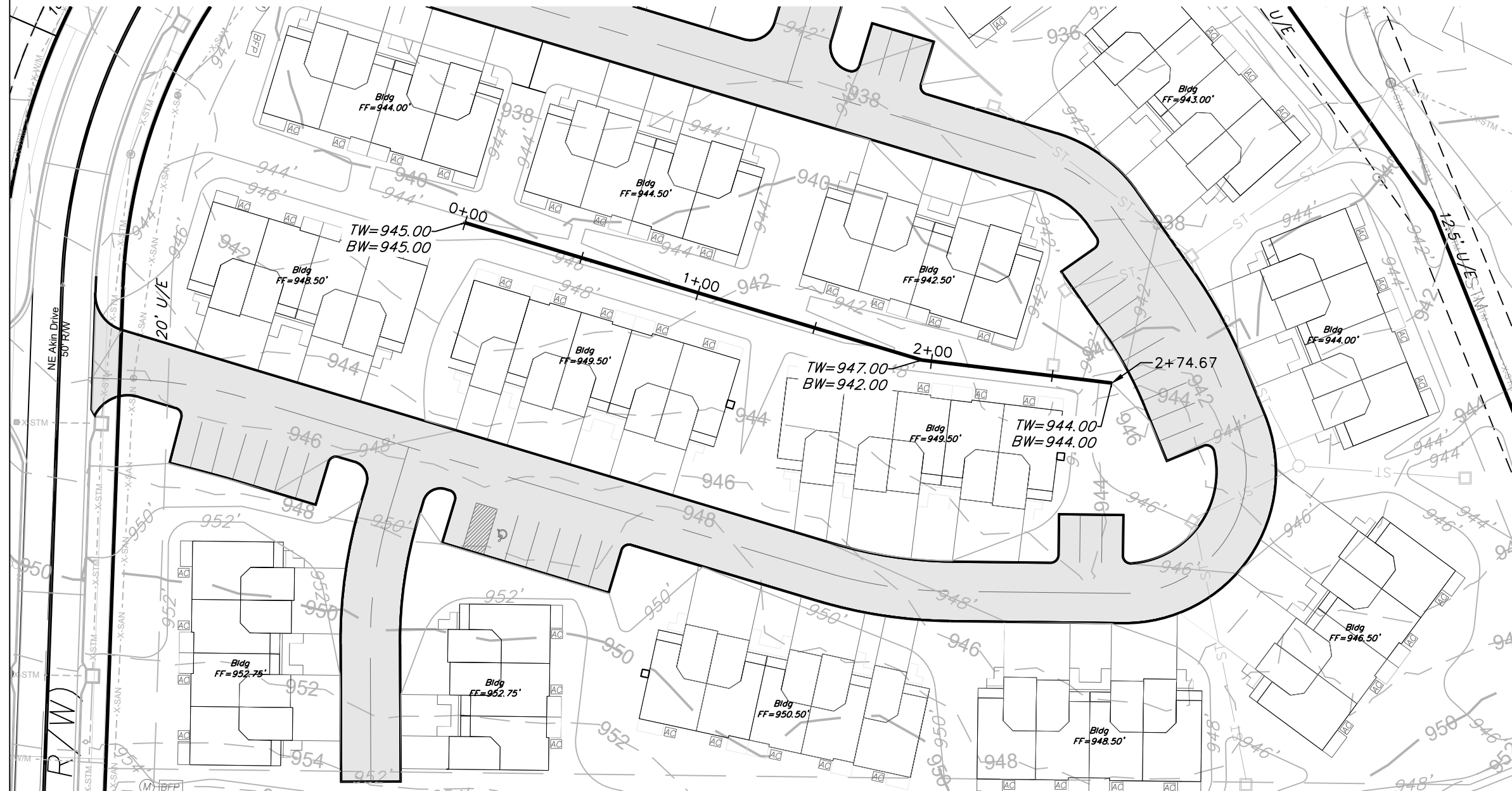
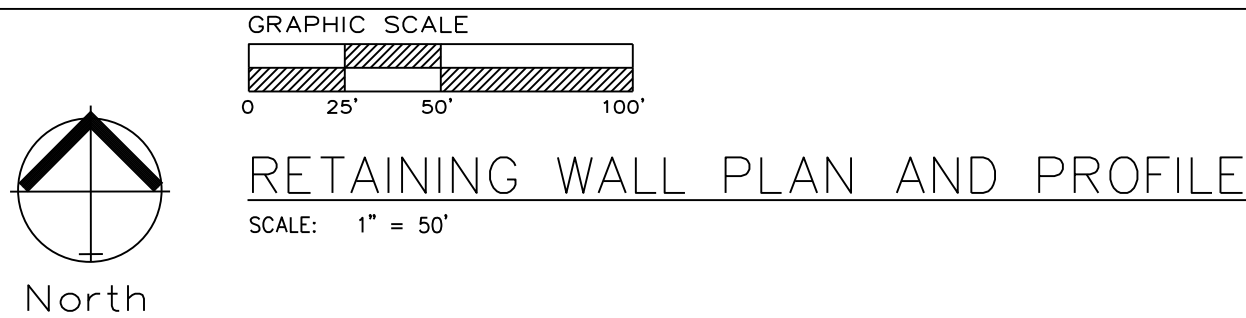
Project:
CHAPEL RIDGE LOT
15, LSMD
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Private Drive Plan and Profile
Construction Plans for:
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Lee's Summit, Jackson County, Missouri

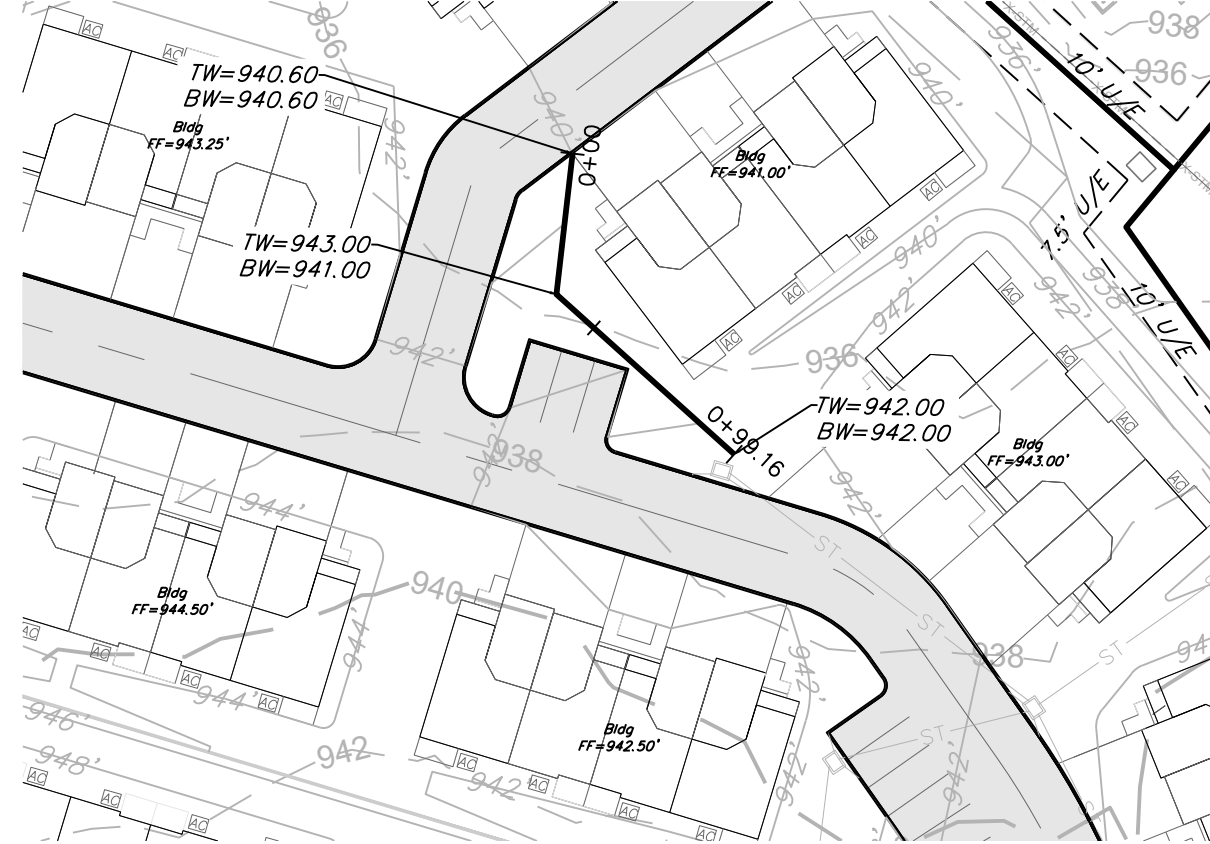
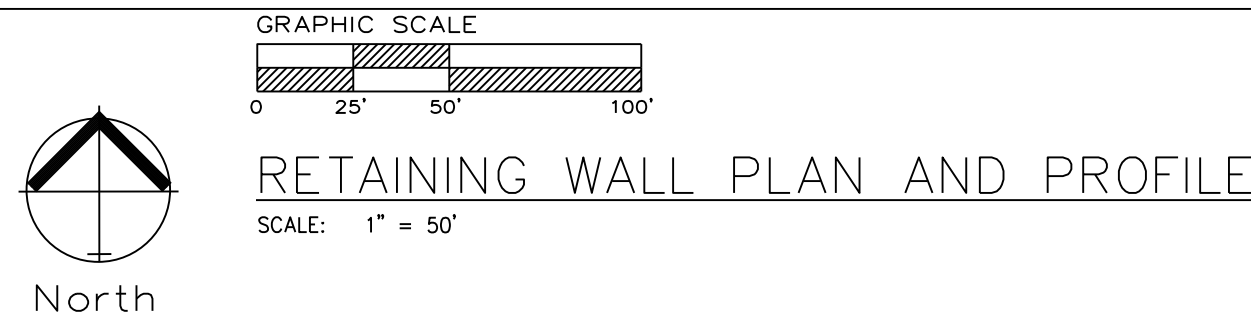
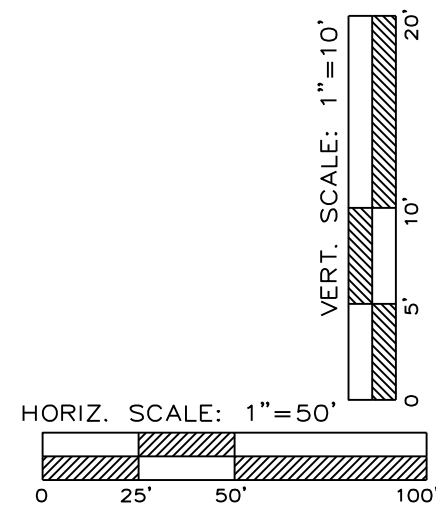
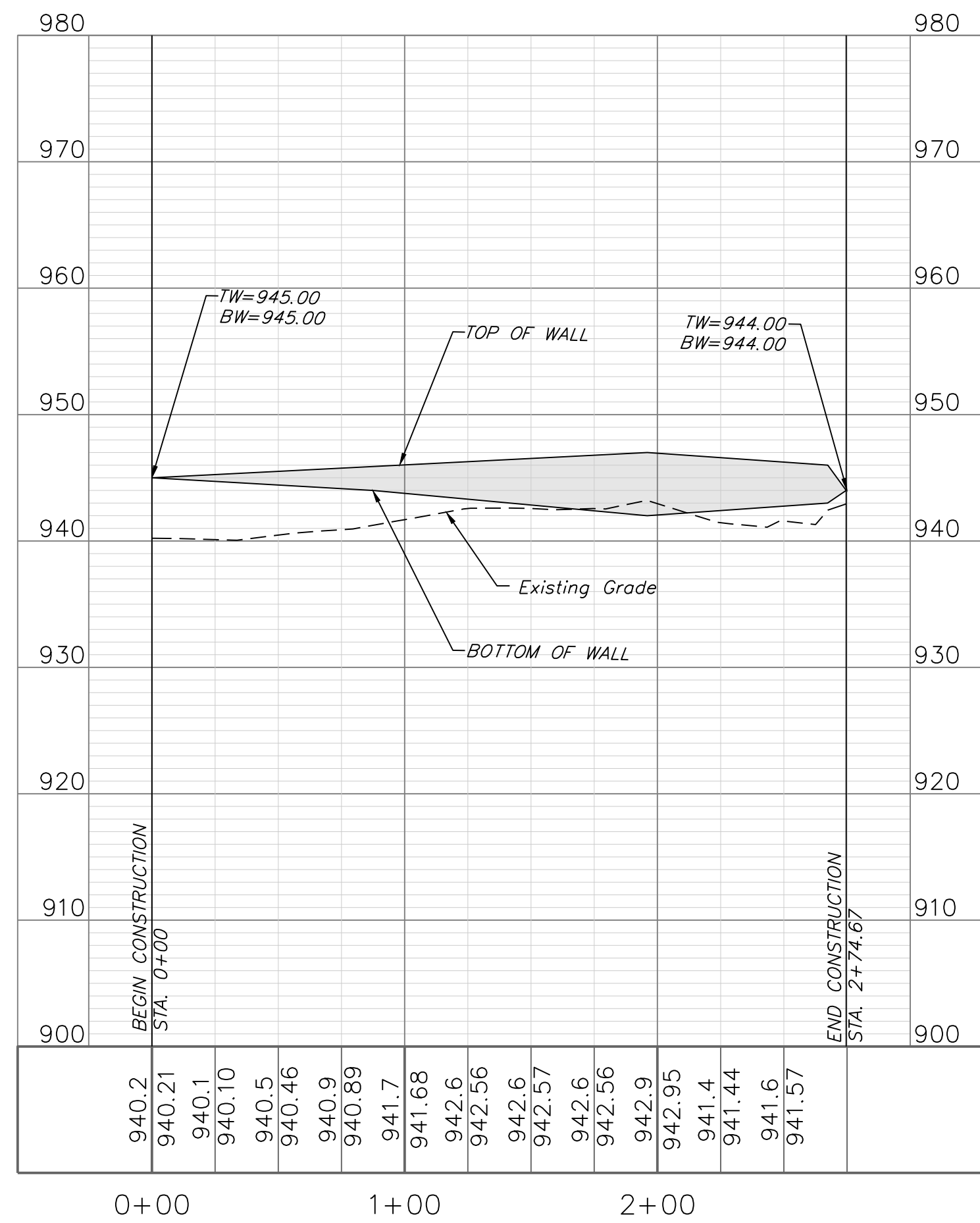


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

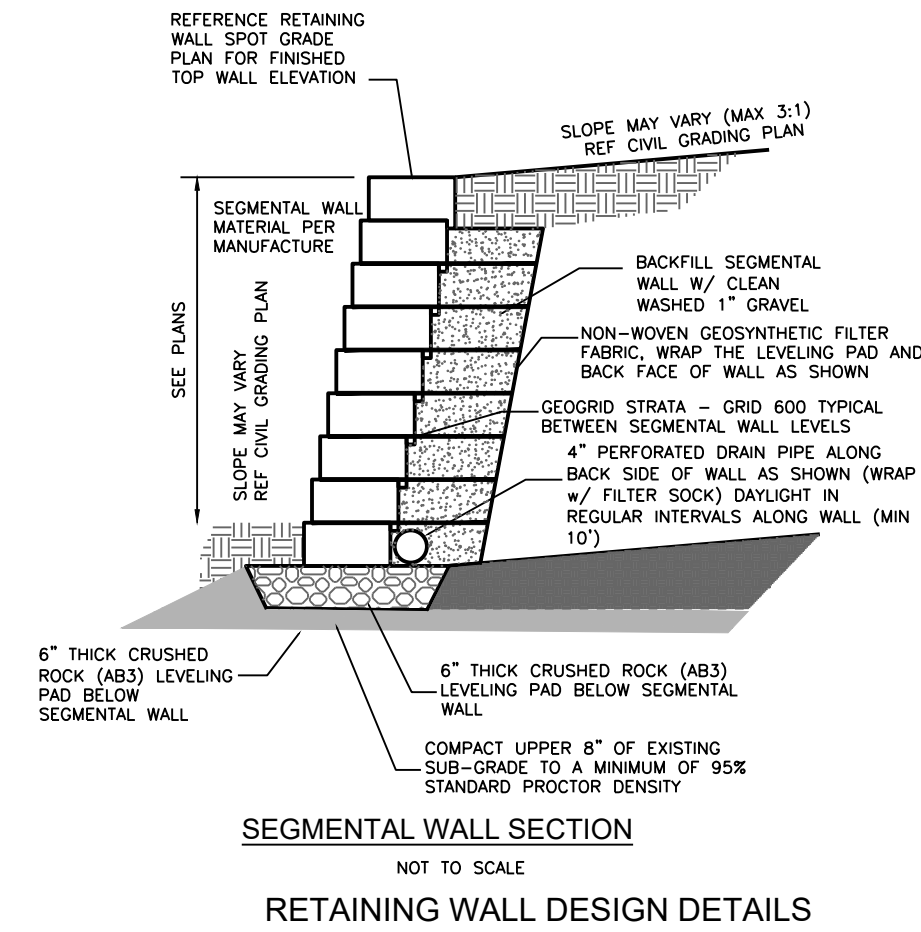
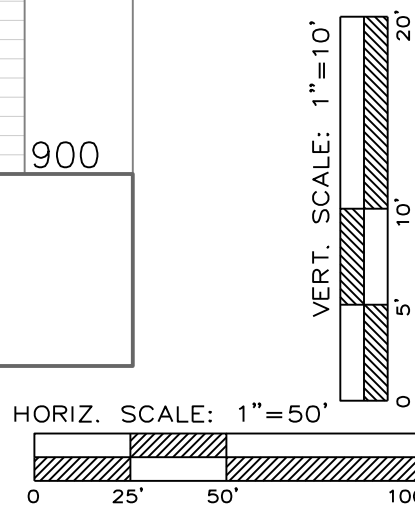
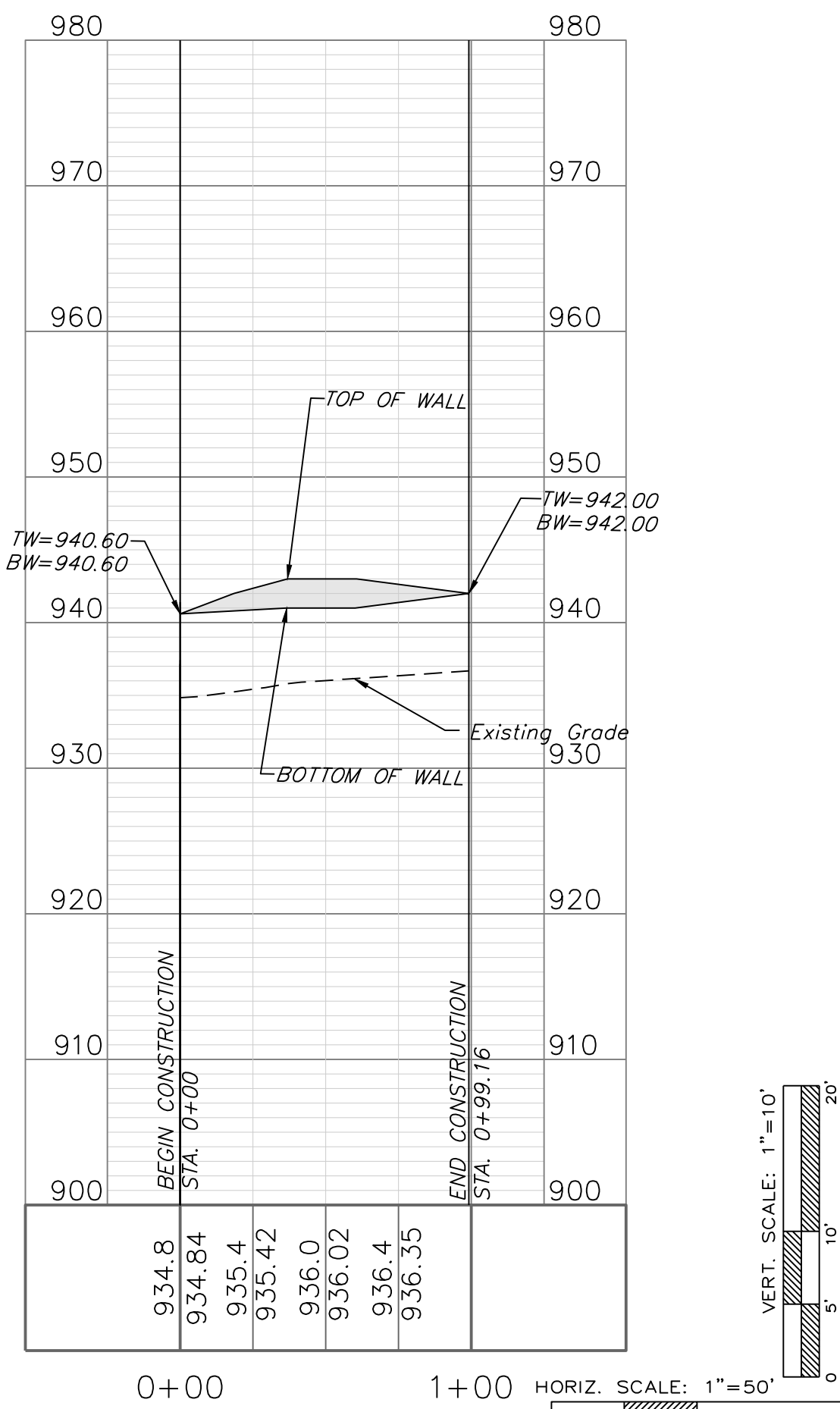
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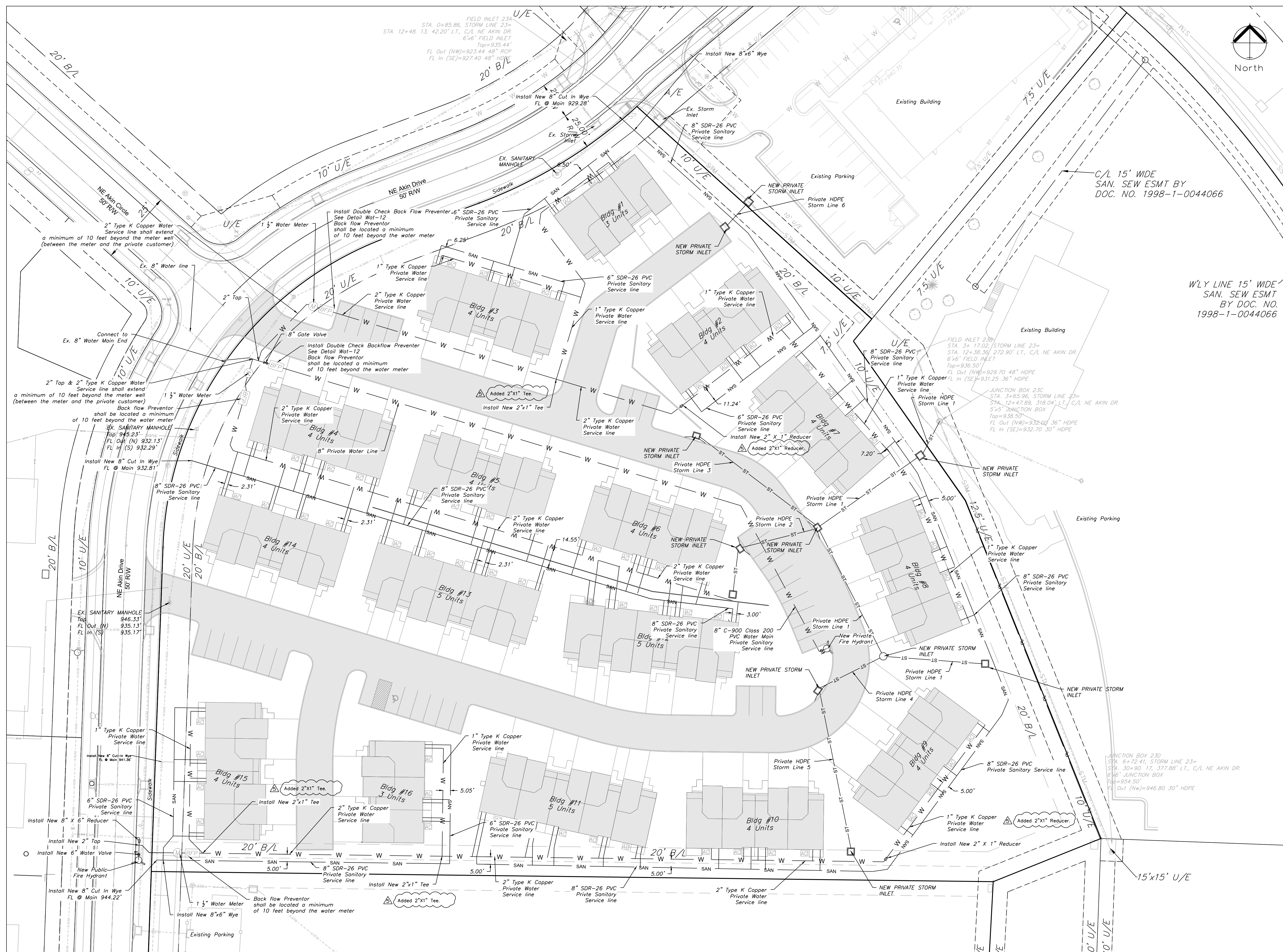
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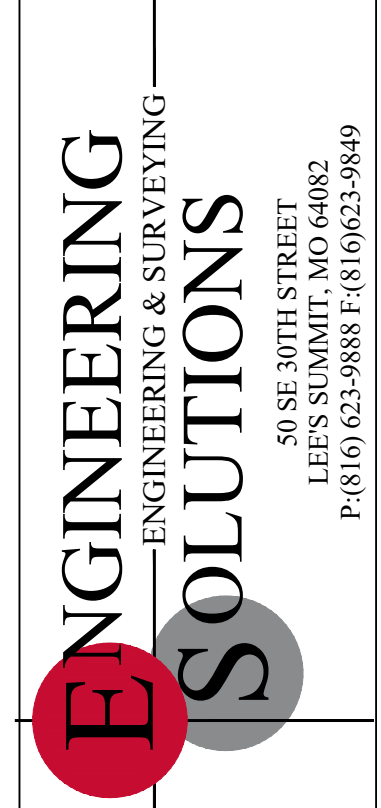
WALL 2



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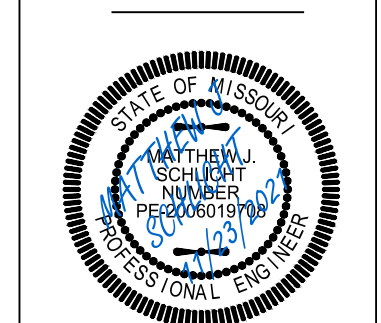
UTILITY PLAN
SCALE: 1" = 30'
NOTE
ALL INTERIOR STORM LINES ARE PRIVATE.
VERTICAL CLEARANCE BETWEEN UTILITY LINES TO BE 18" MINIMUM.



Professional Registration
Missouri
Engineering 200502188-D
Surveying 2005030518-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: Chapel Ridge Townhomes
15, LSHO
Issue Date: July 15, 2021

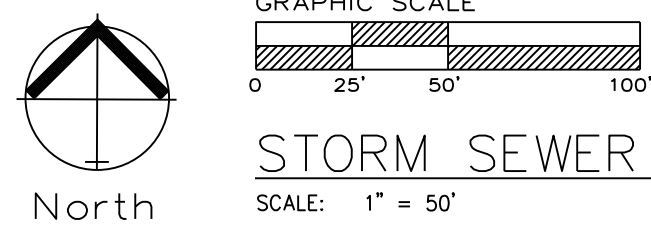
UTILITY PLAN
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



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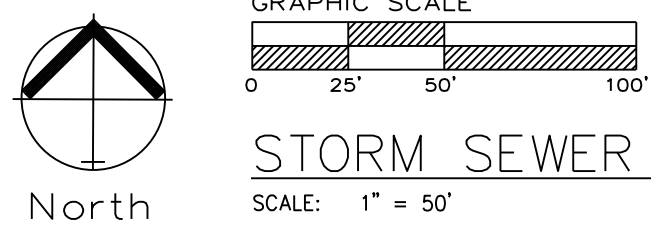
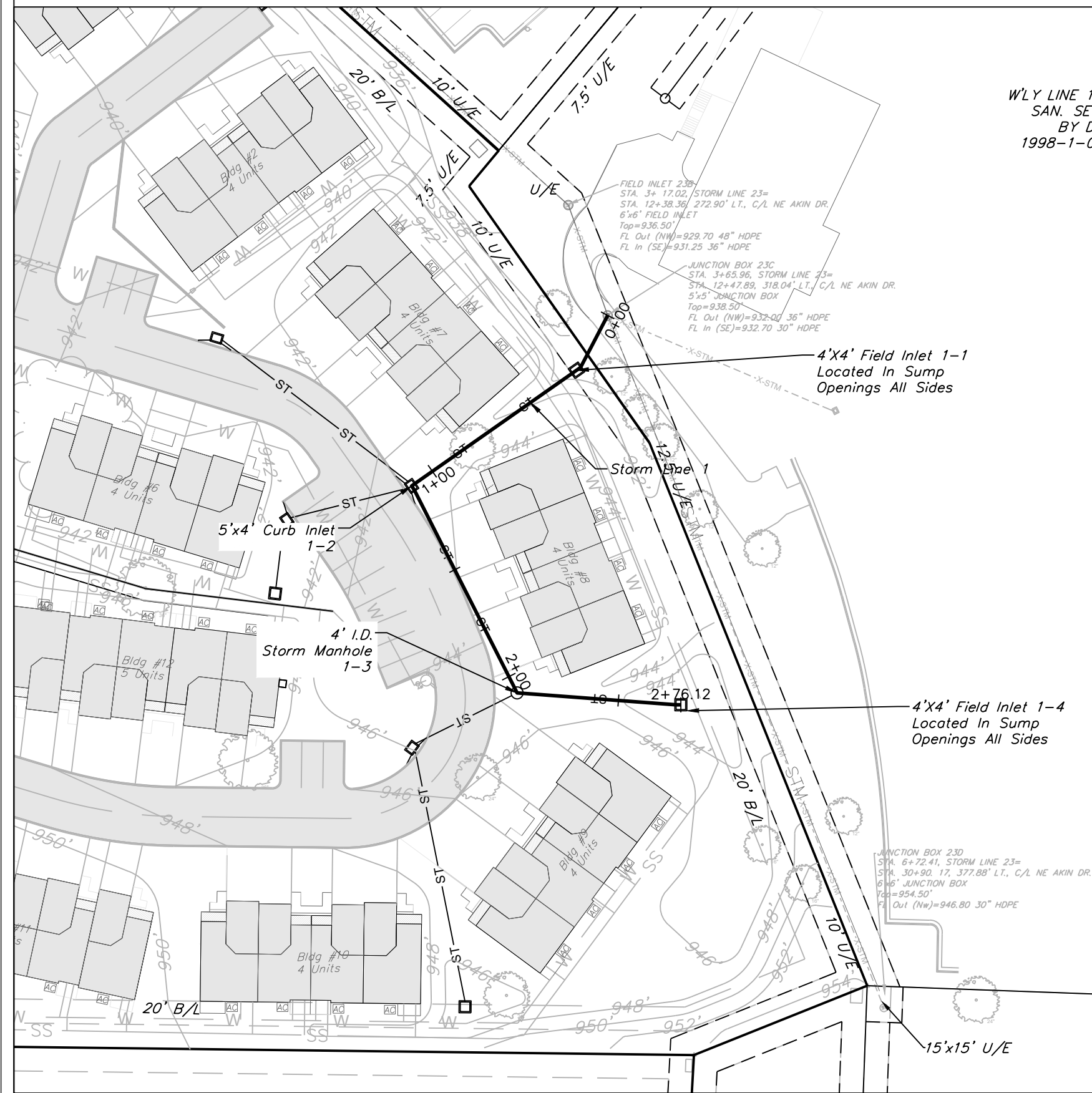
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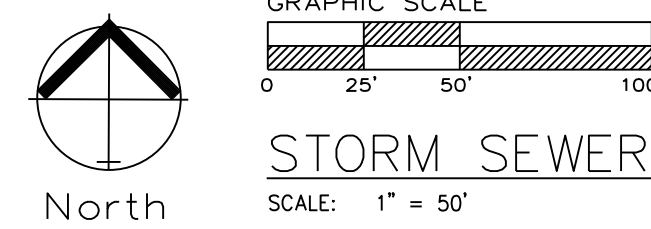
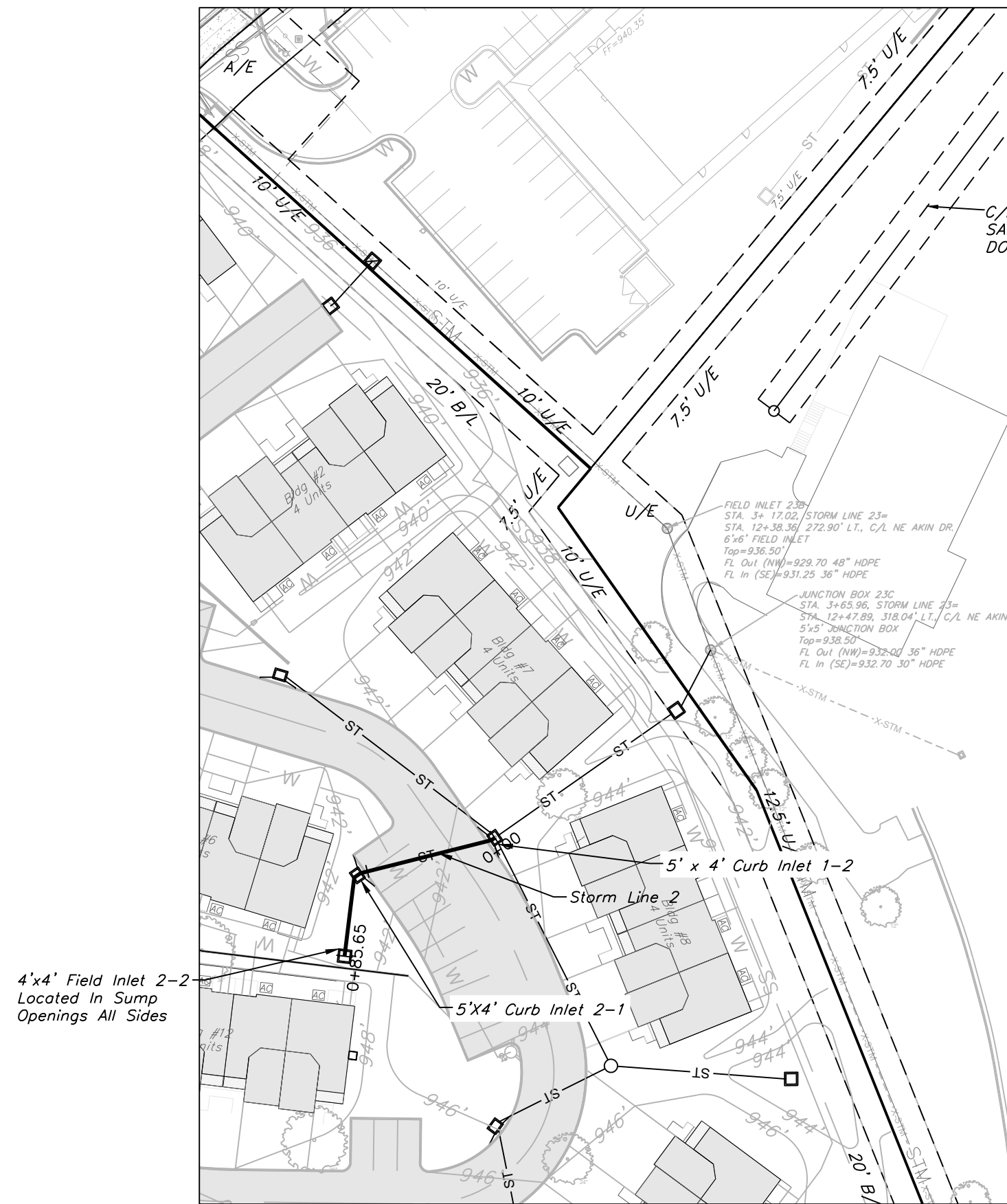
STORM SEWER PLAN & PROFILE

Note:

Compacted Fill shall be placed to a minimum 18" above the top of the pipe prior to installation.



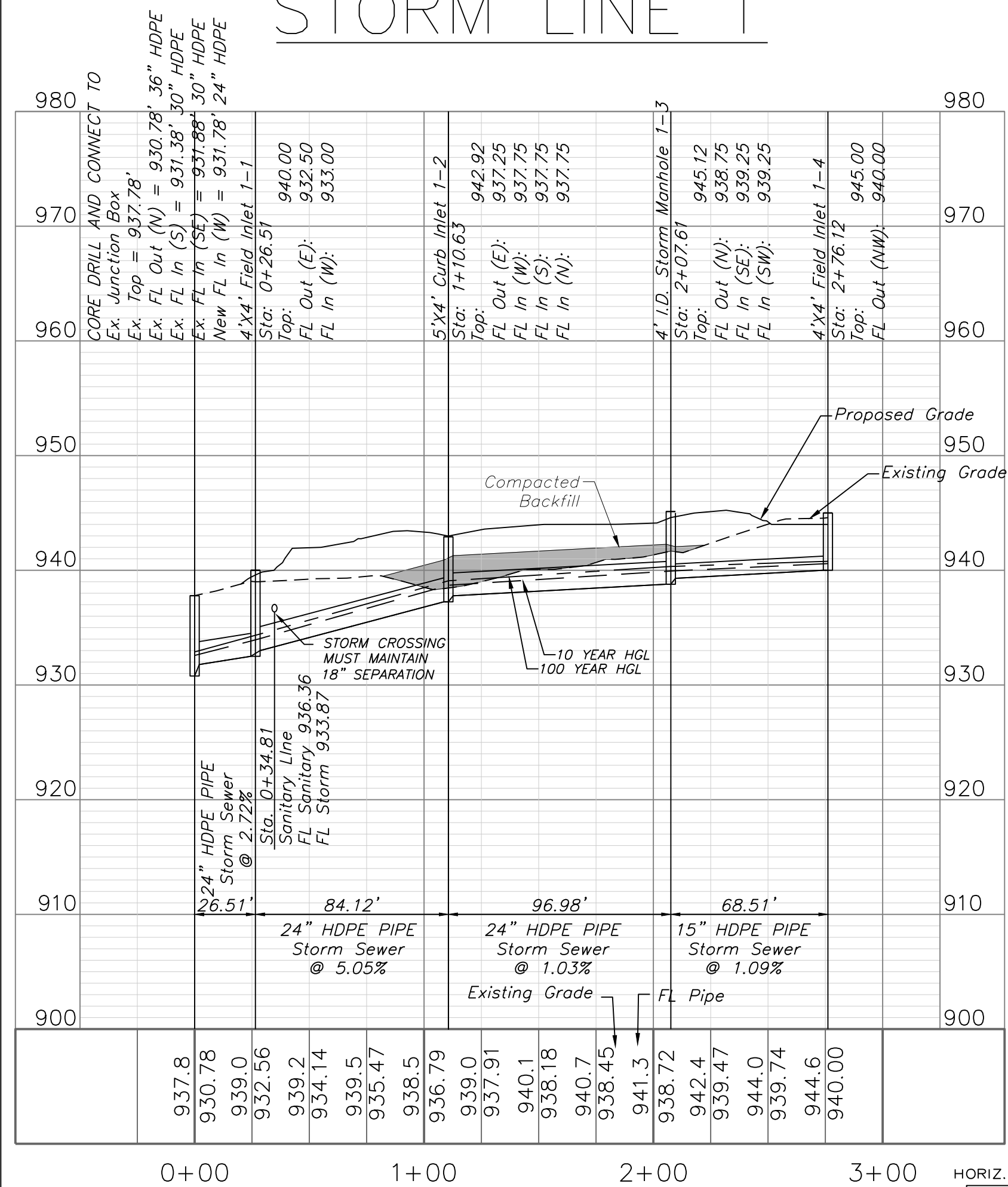
STORM SEWER PLAN & PROFILE



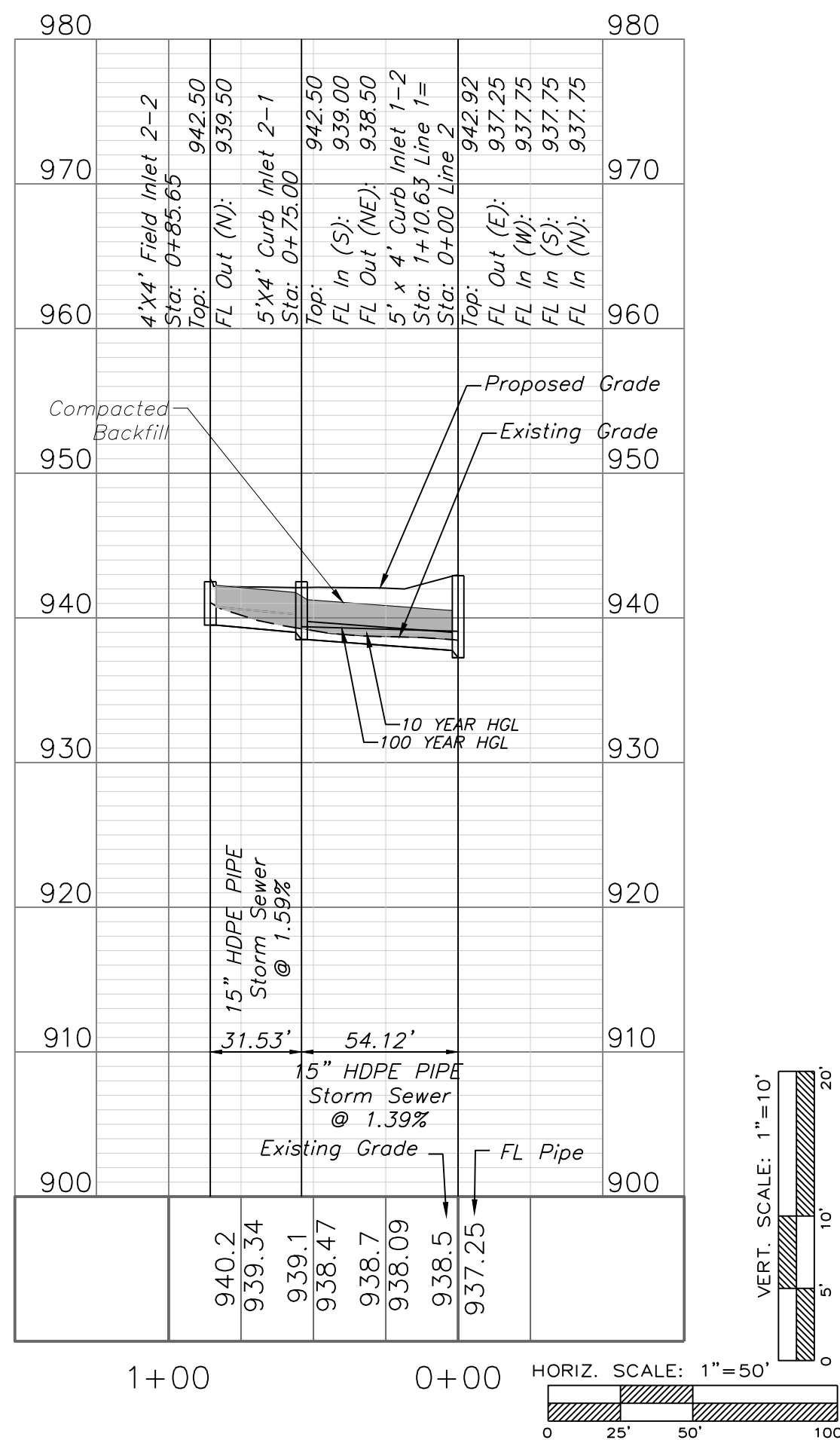
STORM SEWER PLAN & PROFILE



STORM LINE 1

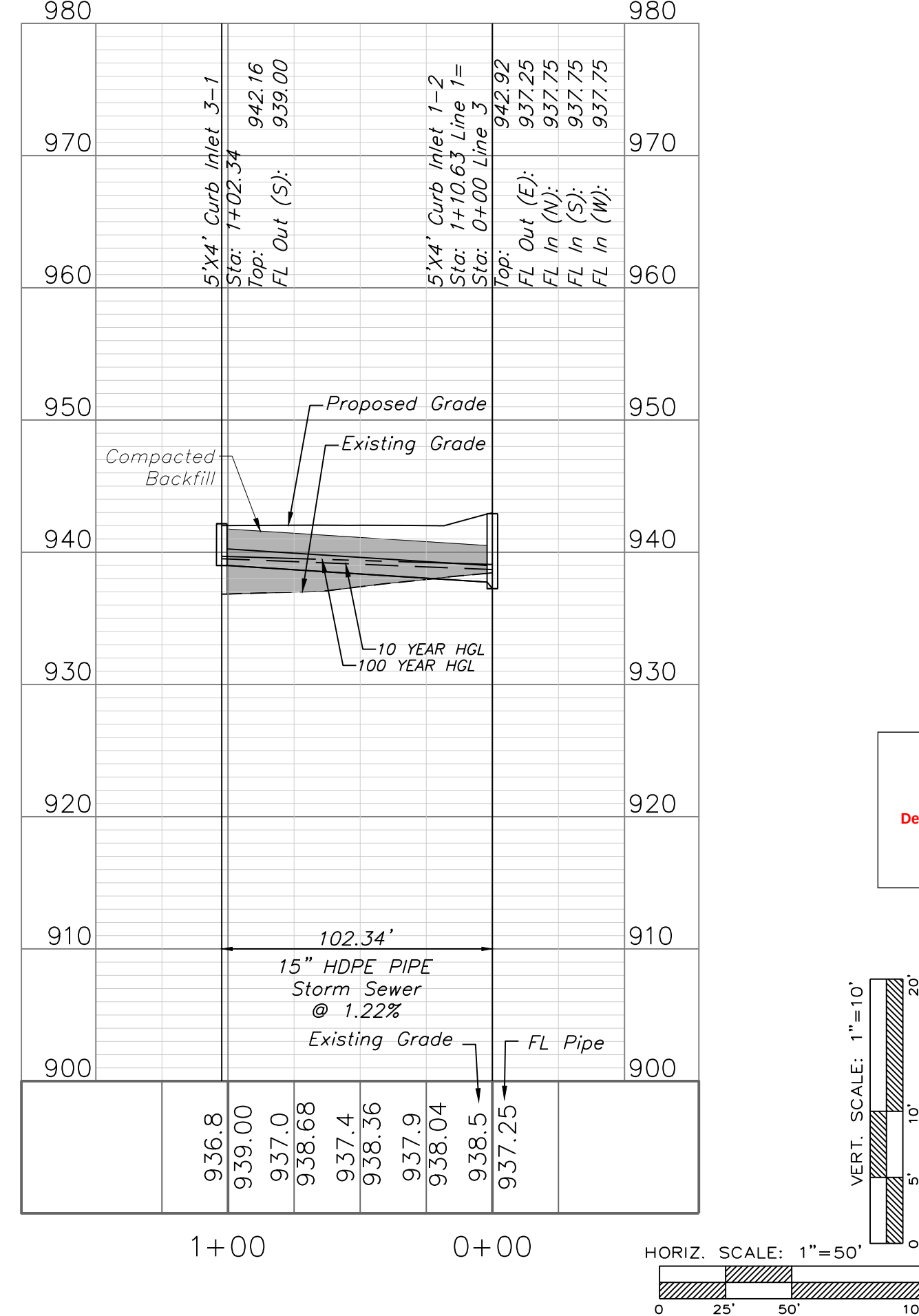


STORM LINE 2



Compacted fill shall be placed to
a minimum 18" above the top of
the pipe prior to installation

STORM LINE 3



RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
12/14/2021

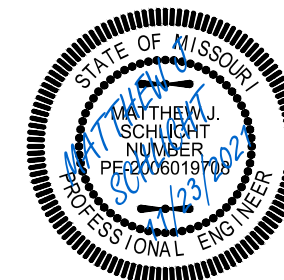


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005189-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Chapel Ridge Lot 15
Lee's Summit, Jackson County, Missouri

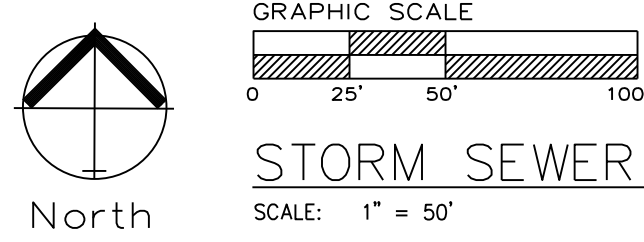
Issue Date:
July 15, 2021

Storm Sewer Plan and Profile
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



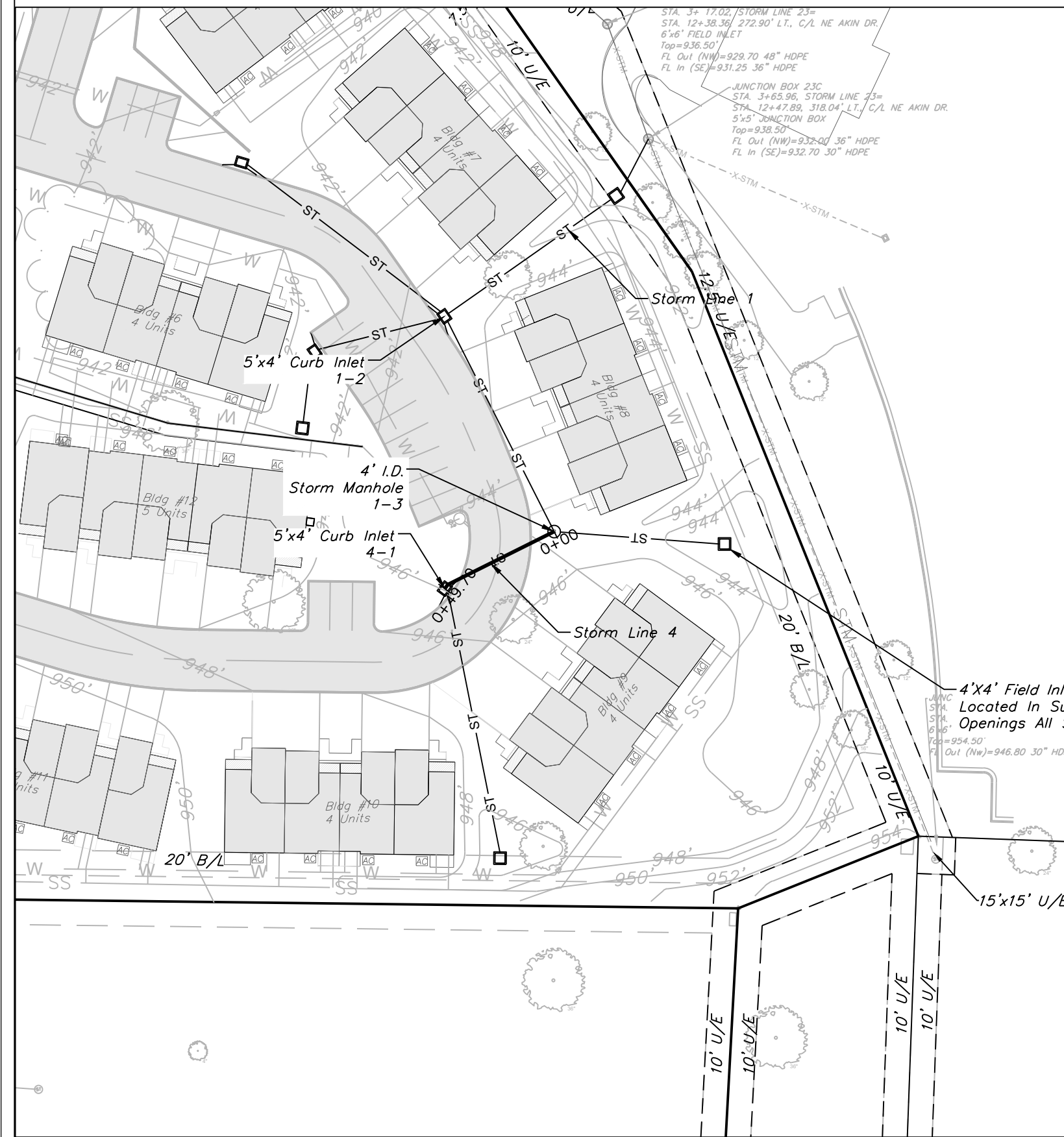
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 255226

REVISIONS
REV. 9/28/2021
REV. 10/18/2021
REV. 11/2/2021
REV. 11/23/2021
REV. 11/29/2021

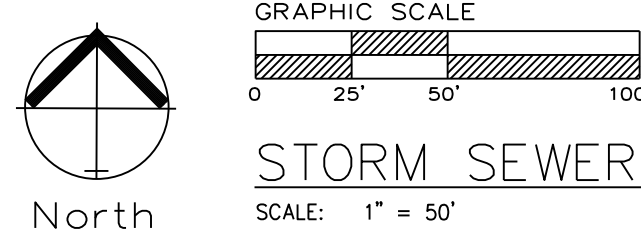
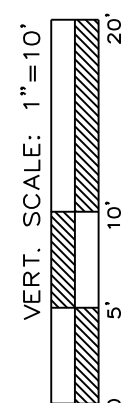
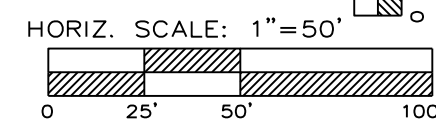
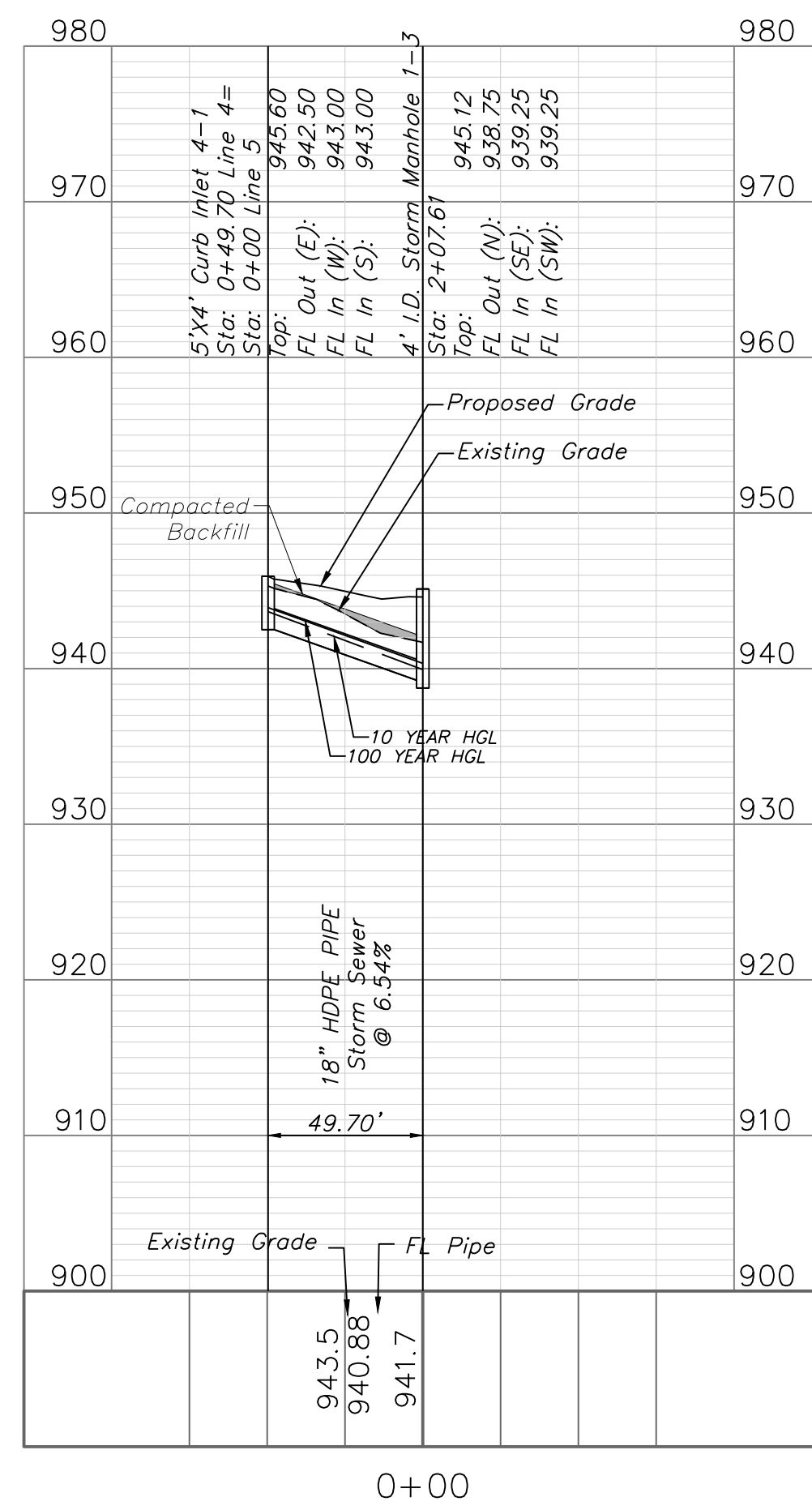


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

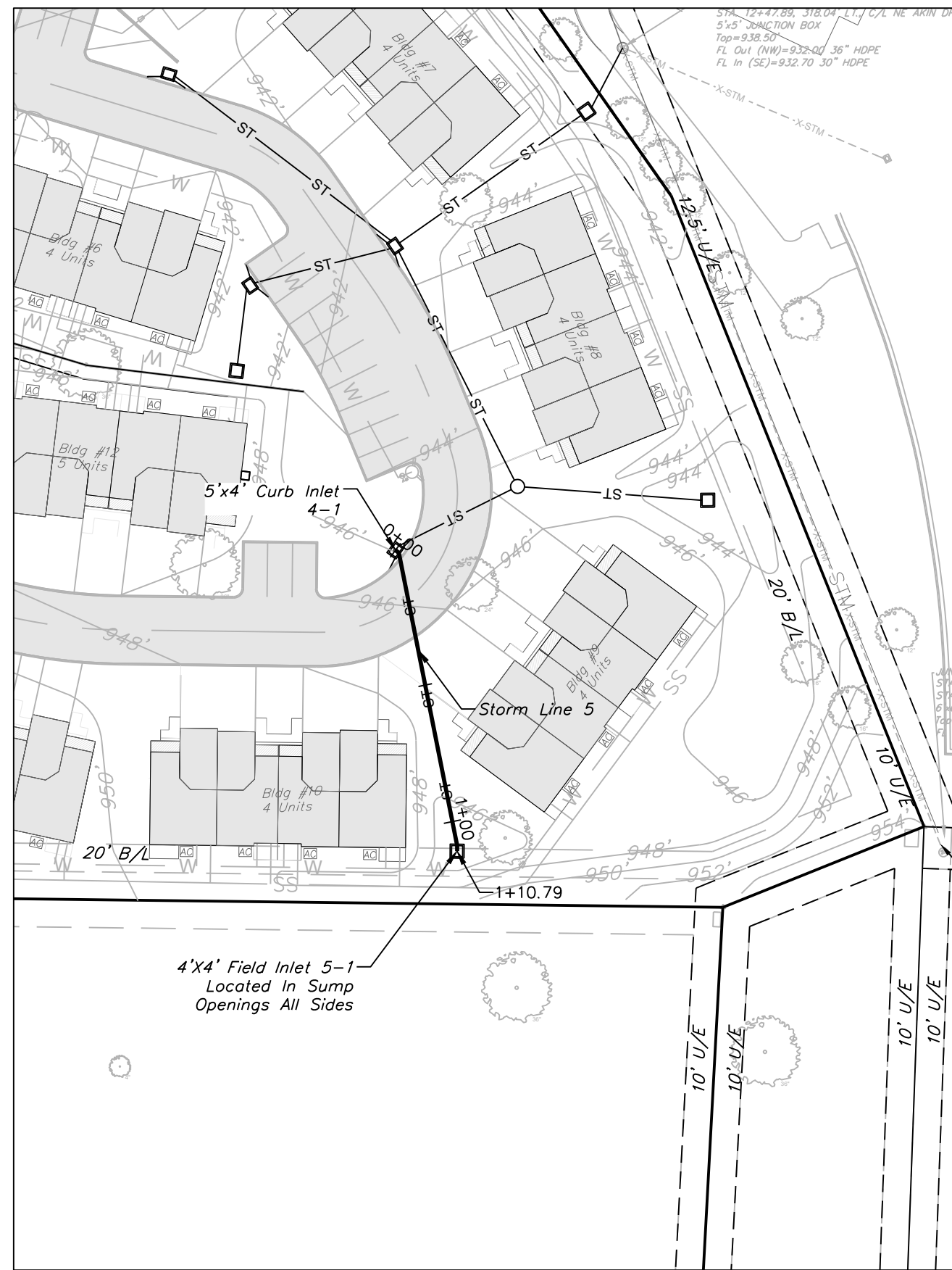


STORM LINE 4

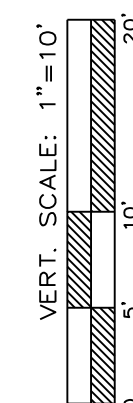
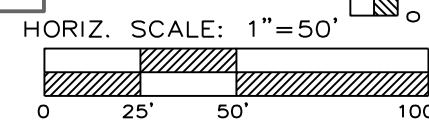
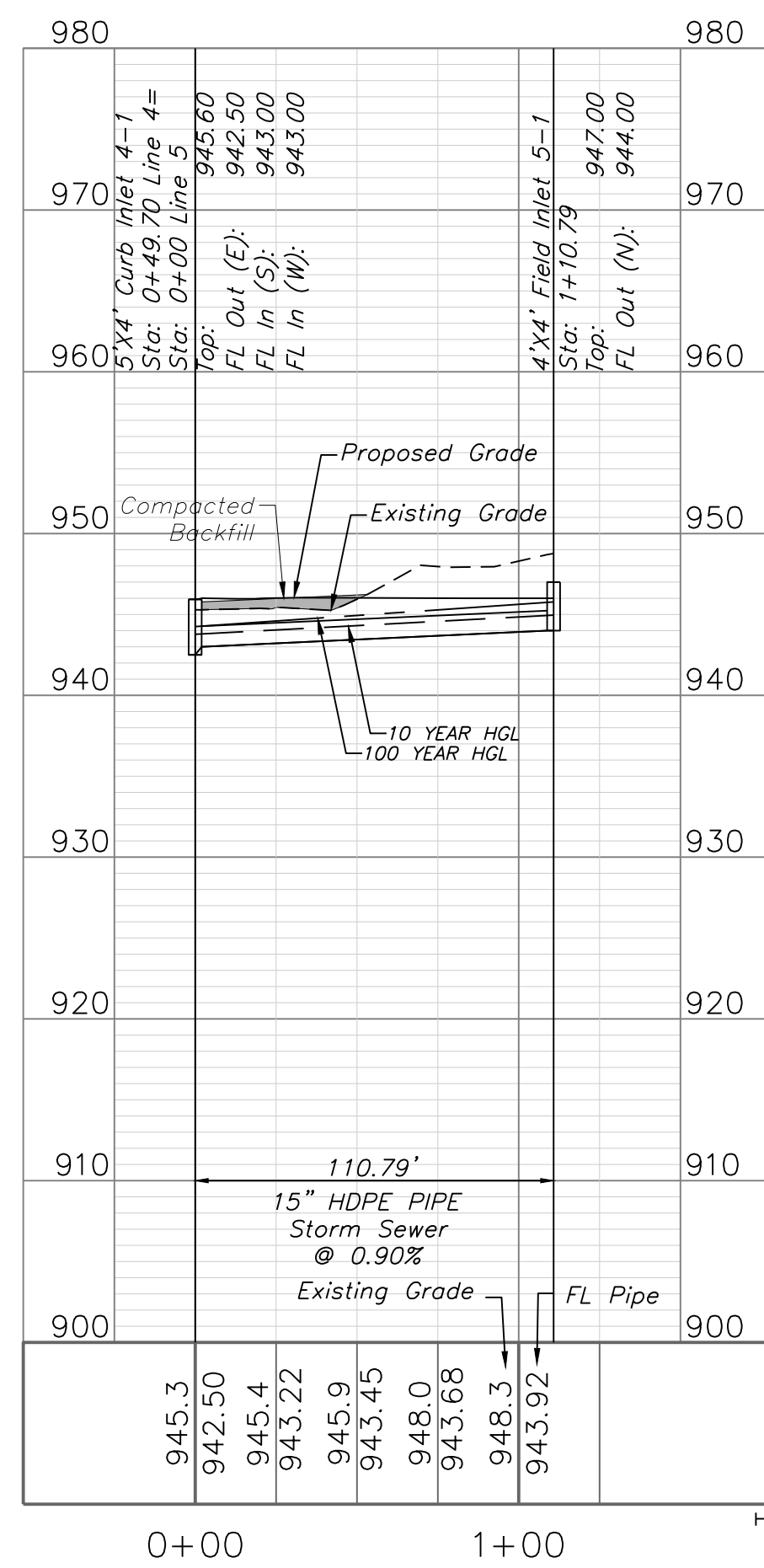


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

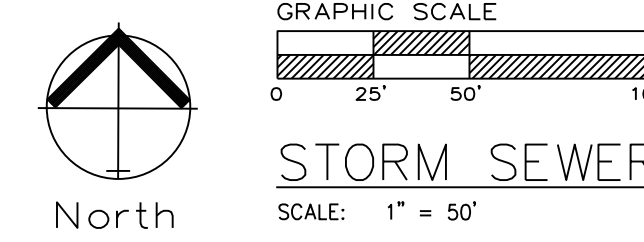


STORM LINE 5



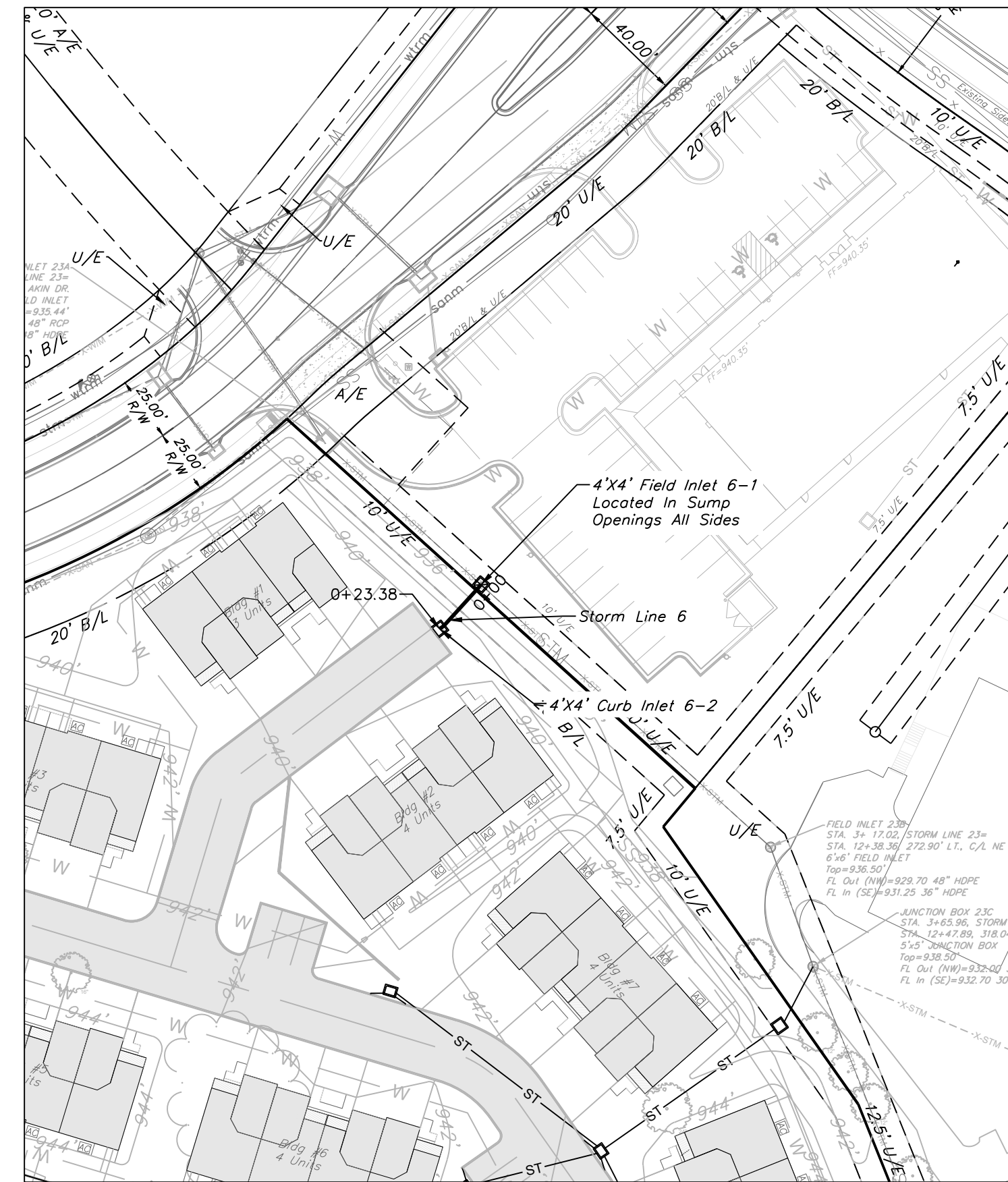
Compacted fill shall be placed to a minimum 18" above the top of the pipe prior to installation

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/14/2021

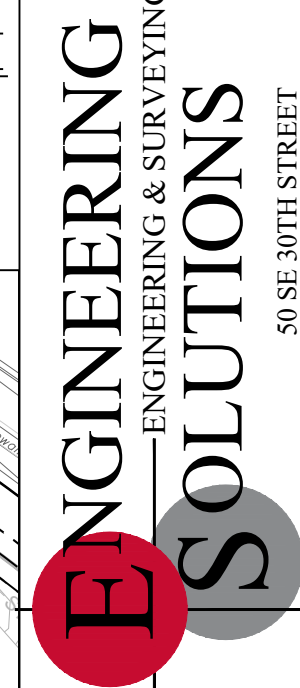
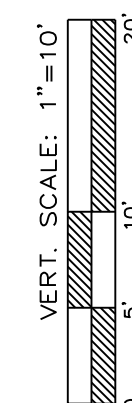
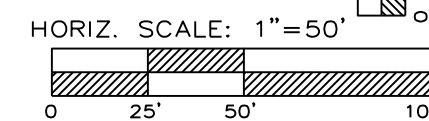
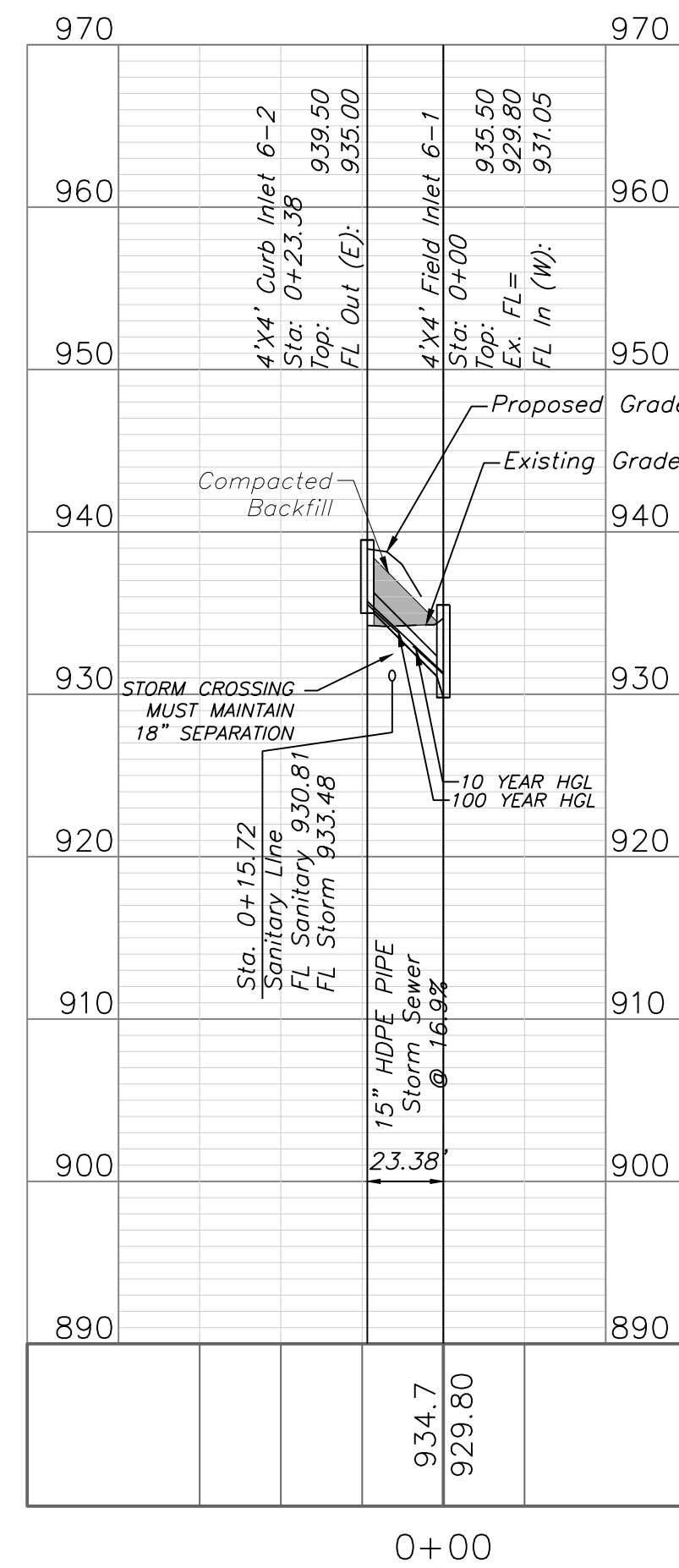


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 6

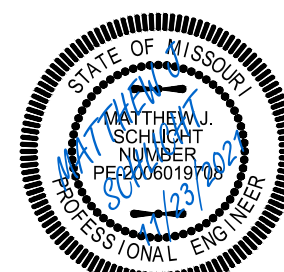


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500518-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

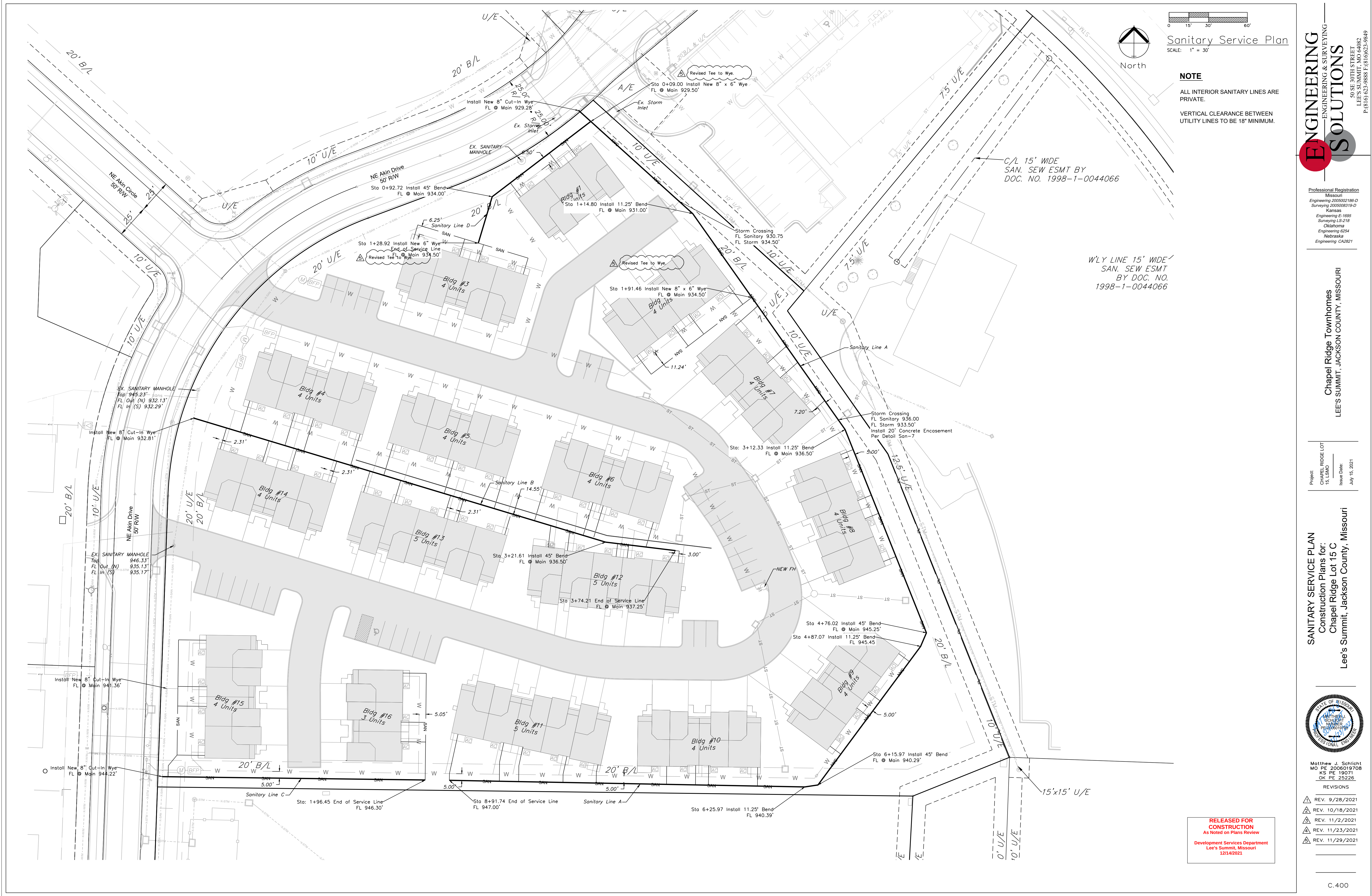
Issue Date:
July 15, 2021

Storm Sewer Plan and Profile
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



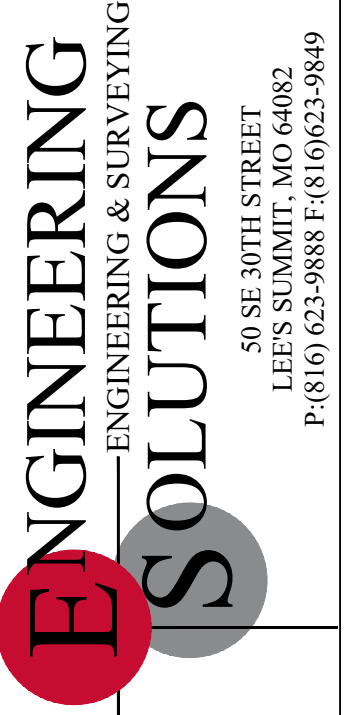
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

REVISIONS
REV. 9/28/2021
REV. 10/18/2021
REV. 11/2/2021
REV. 11/23/2021
REV. 11/29/2021



Sanitary Service Plan
SCALE: 1" = 30'

NOTE
ALL INTERIOR SANITARY LINES ARE PRIVATE.
VERTICAL CLEARANCE BETWEEN UTILITY LINES TO BE 18" MINIMUM.

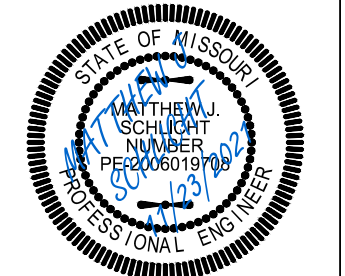


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005189-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: Chapel Ridge Townhomes
15, L5MO
Issue Date: July 15, 2021

Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

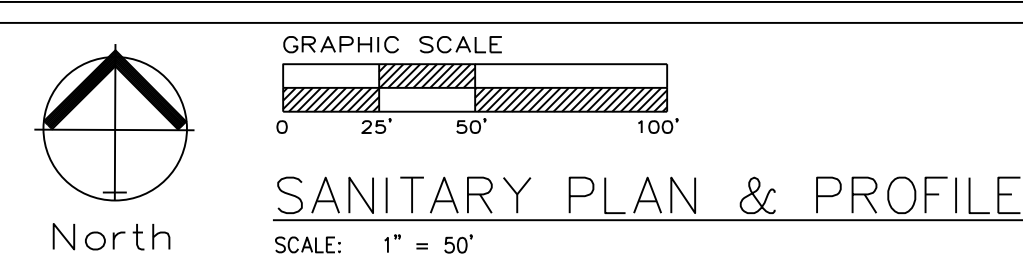
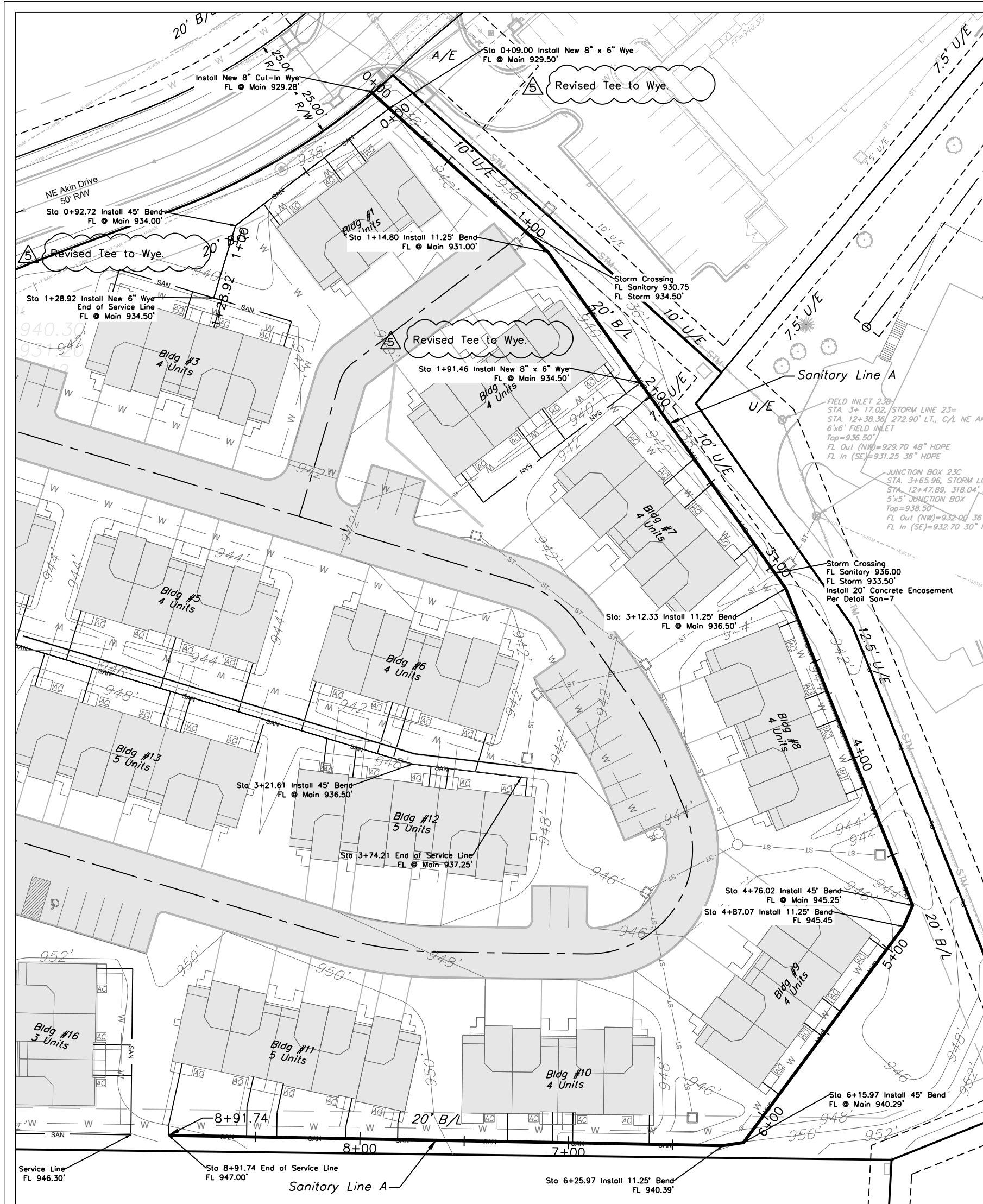
SANITARY SERVICE PLAN
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



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

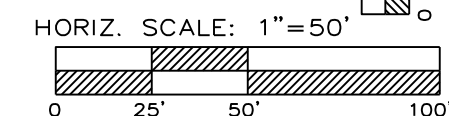
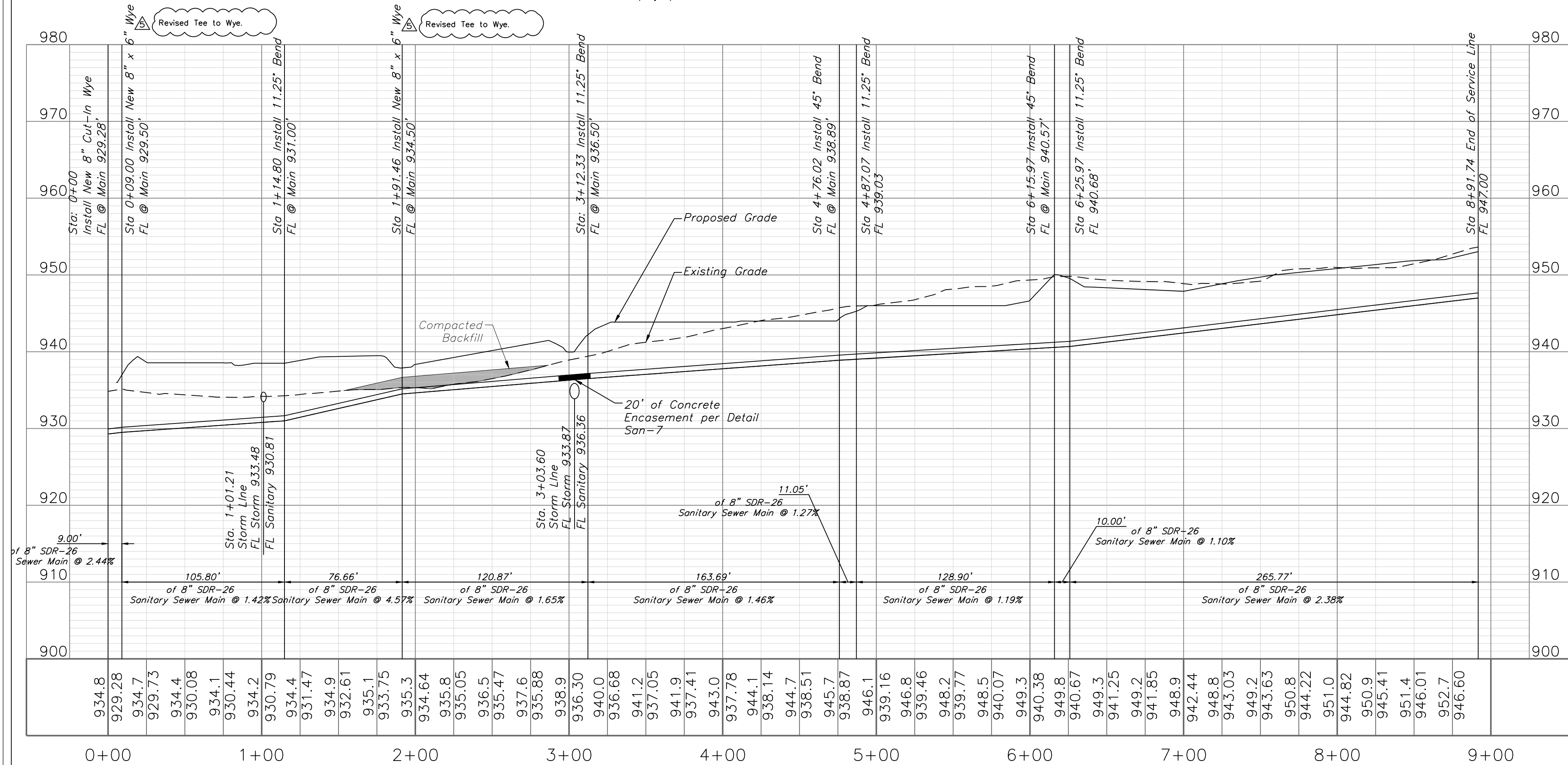
REVISIONS	
REV. 9/28/2021	As Noted on Plans Review
REV. 10/18/2021	
REV. 11/2/2021	
REV. 11/23/2021	
REV. 11/29/2021	

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CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/14/2021

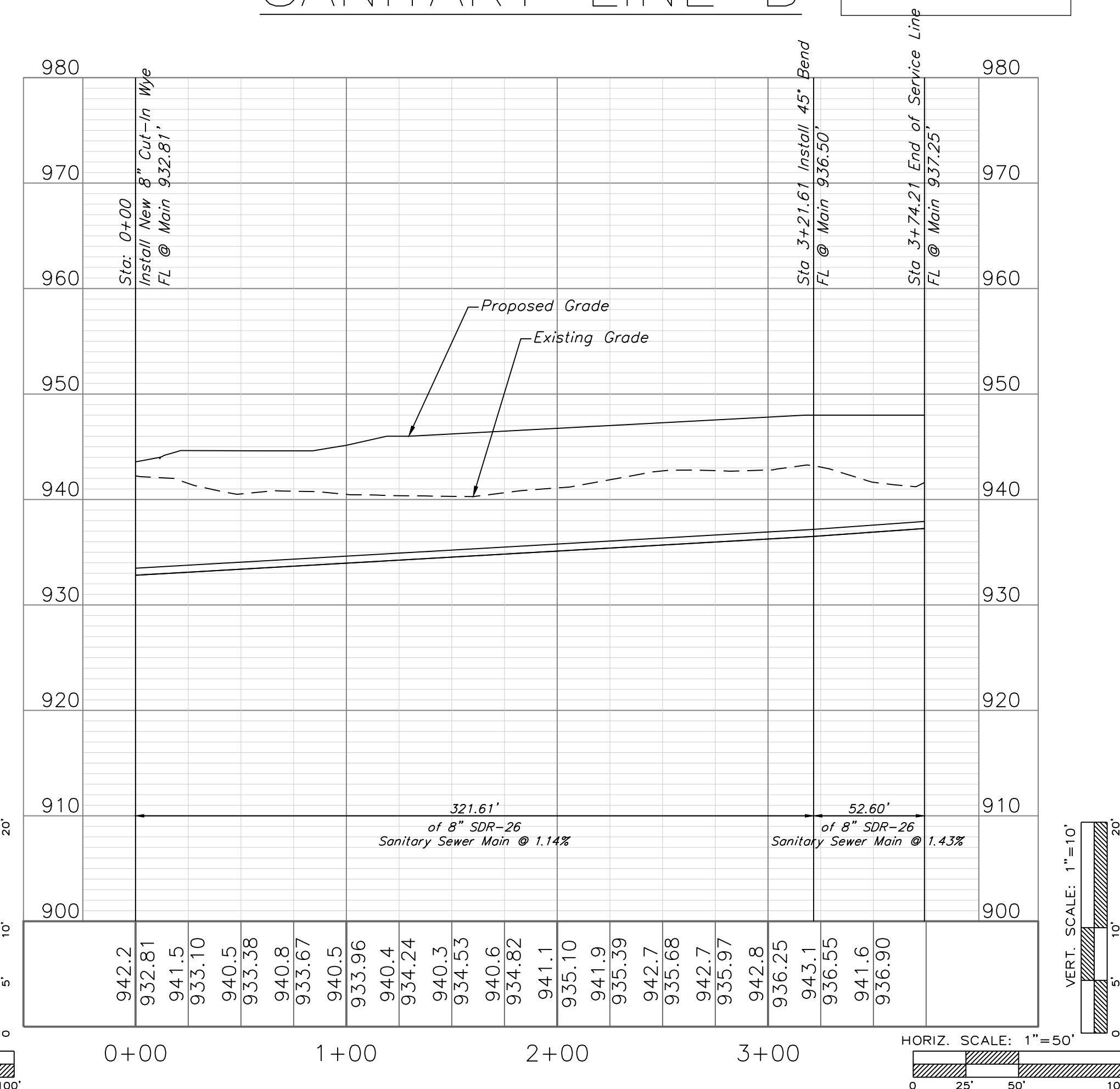


SANITARY LINE A

Compacted fill shall be placed to a minimum 18" above the top of the pipe prior to installation



SANITARY LINE B



RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/14/2021

ENGINEERING & SURVEYING SOLUTIONS

Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500519-D
Kansas
Engineering E-1895
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
CHAPEL RIDGE LOT 15, L5MO
Issue Date:
July 15, 2021

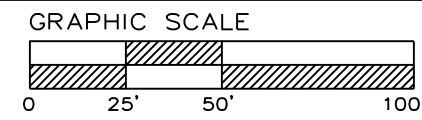
SANITARY SEWER "A" & "B"
PLAN & PROFILE
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri

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

REVISIONS

- REV. 9/28/2021
- REV. 10/18/2021
- REV. 11/2/2021
- REV. 11/23/2021
- REV. 11/29/2021

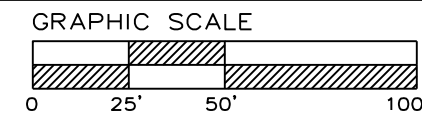
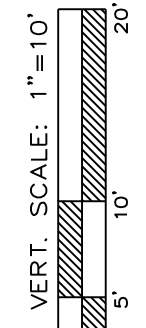
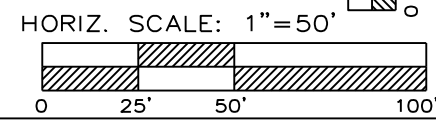
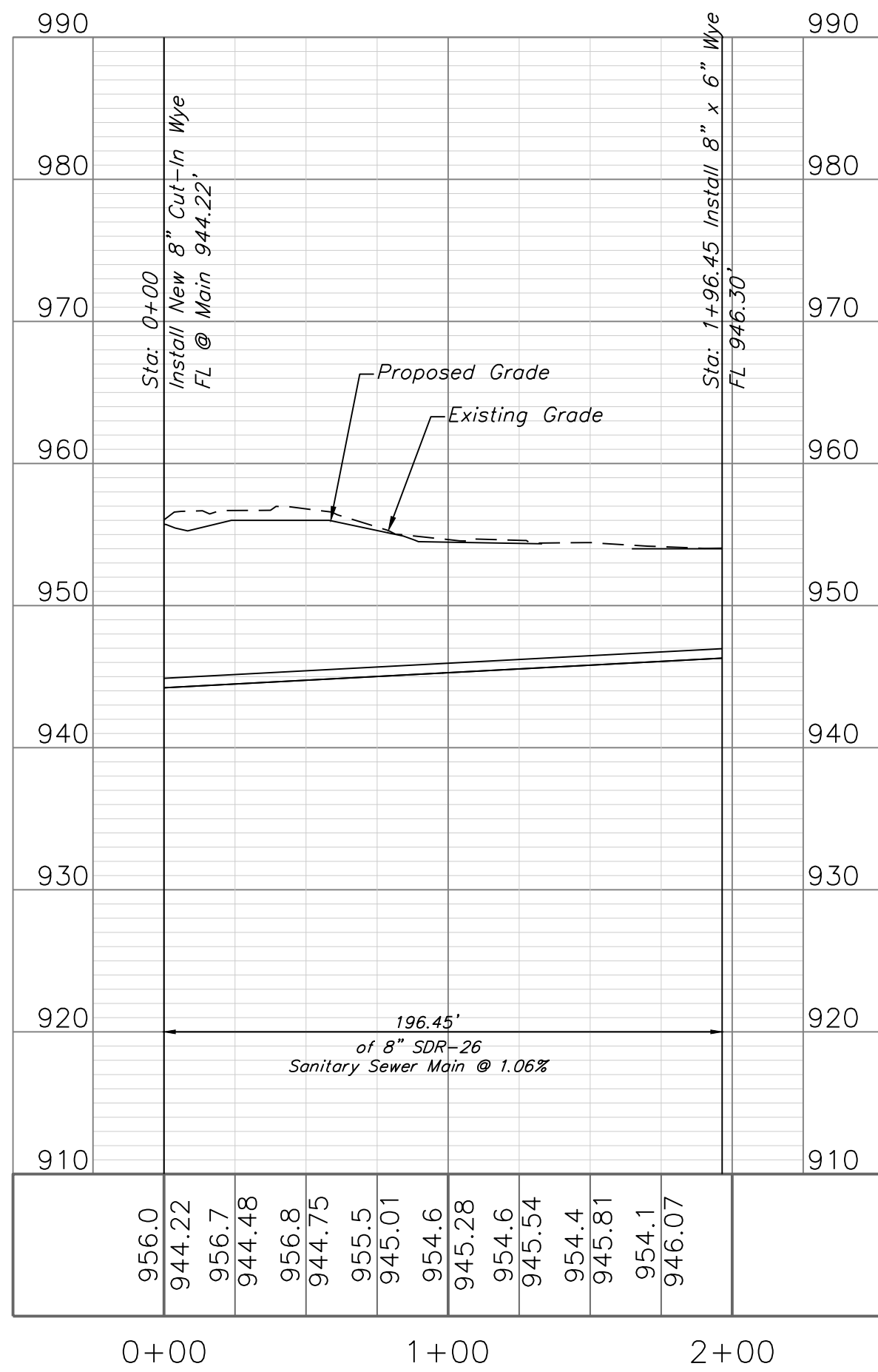
C.401



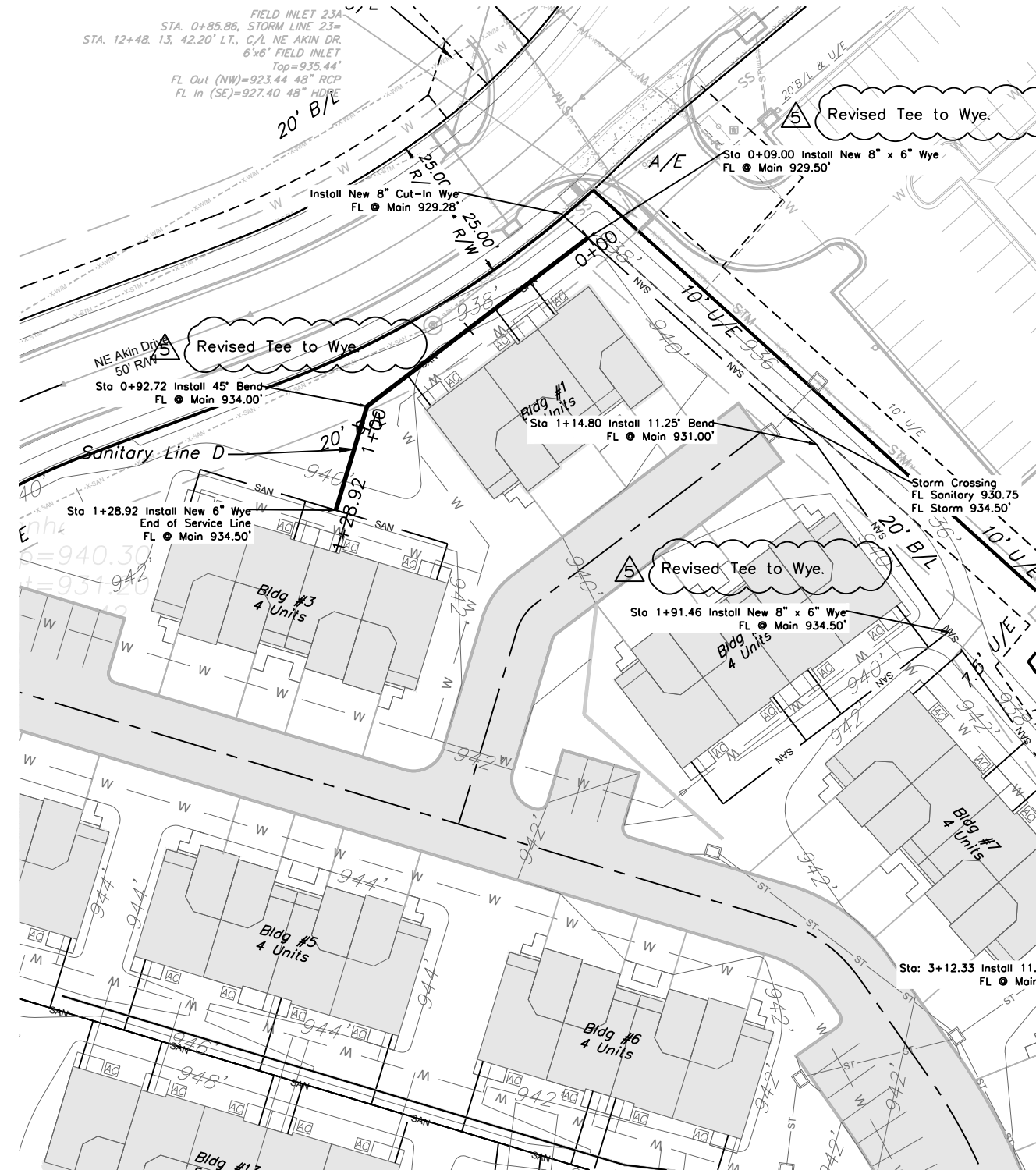
SANITARY PLAN & PROFILE
SCALE: 1" = 50'



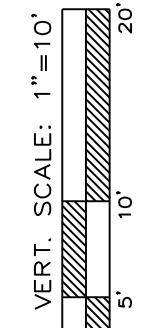
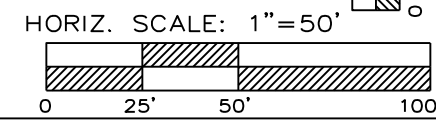
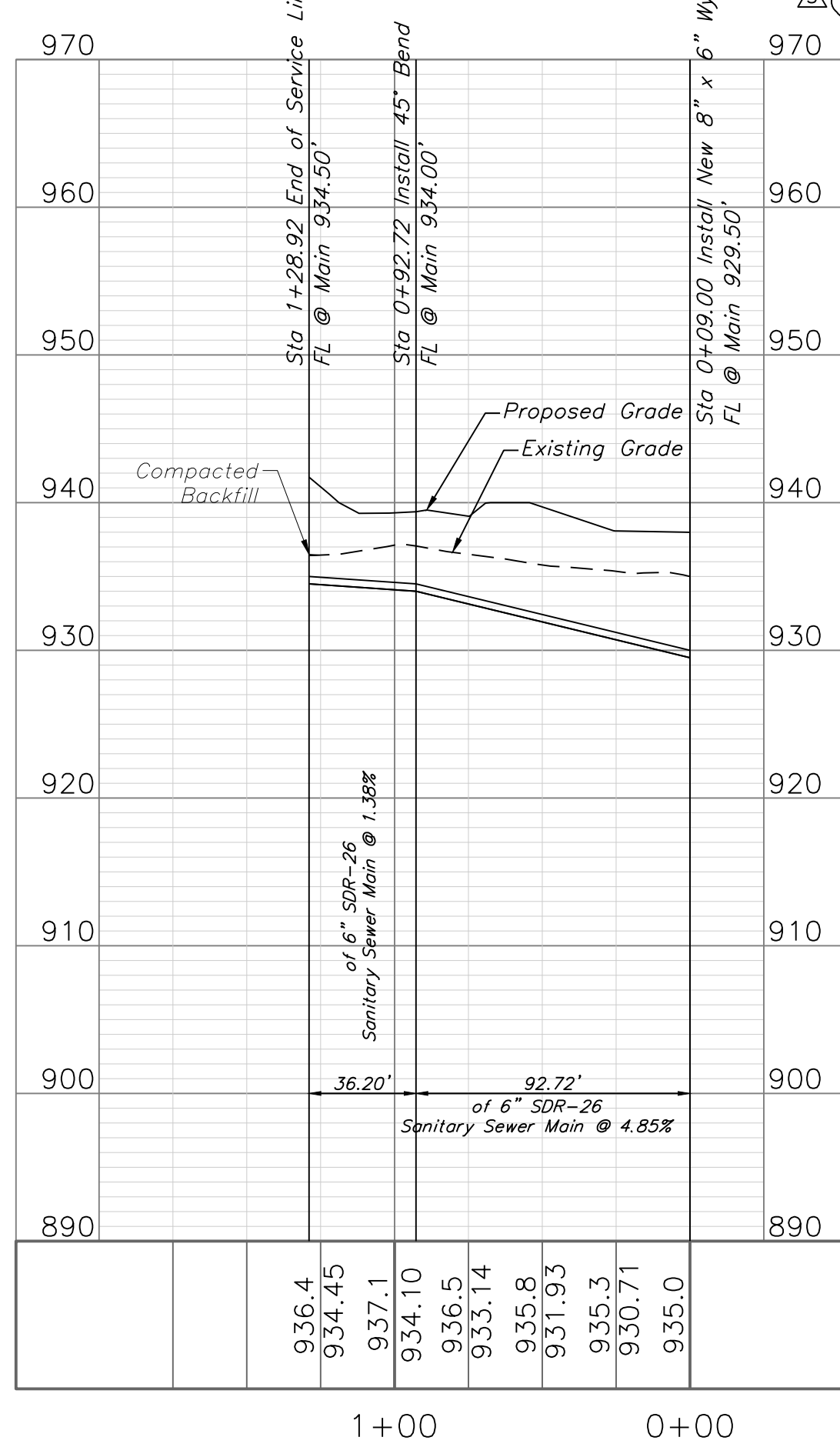
SANITARY LINE C



SANITARY PLAN & PROFILE
SCALE: 1" = 50'



SANITARY LINE D



GENERAL NOTE:
1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT
DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 ~ TRENCH CHECKS SHALL BE INSTALL AT ALL SANITARY WYES LOCATION.

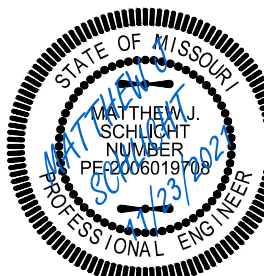


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005189-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

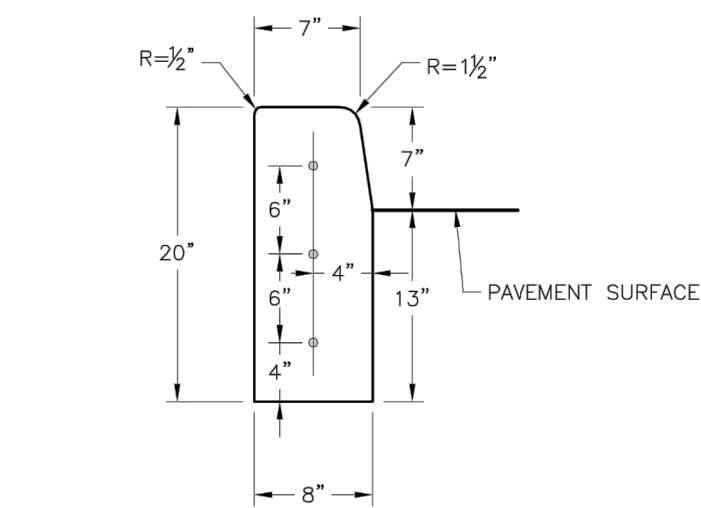
Project:
CHAPEL RIDGE LOT
15, L5MO
Issue Date:
July 15, 2021

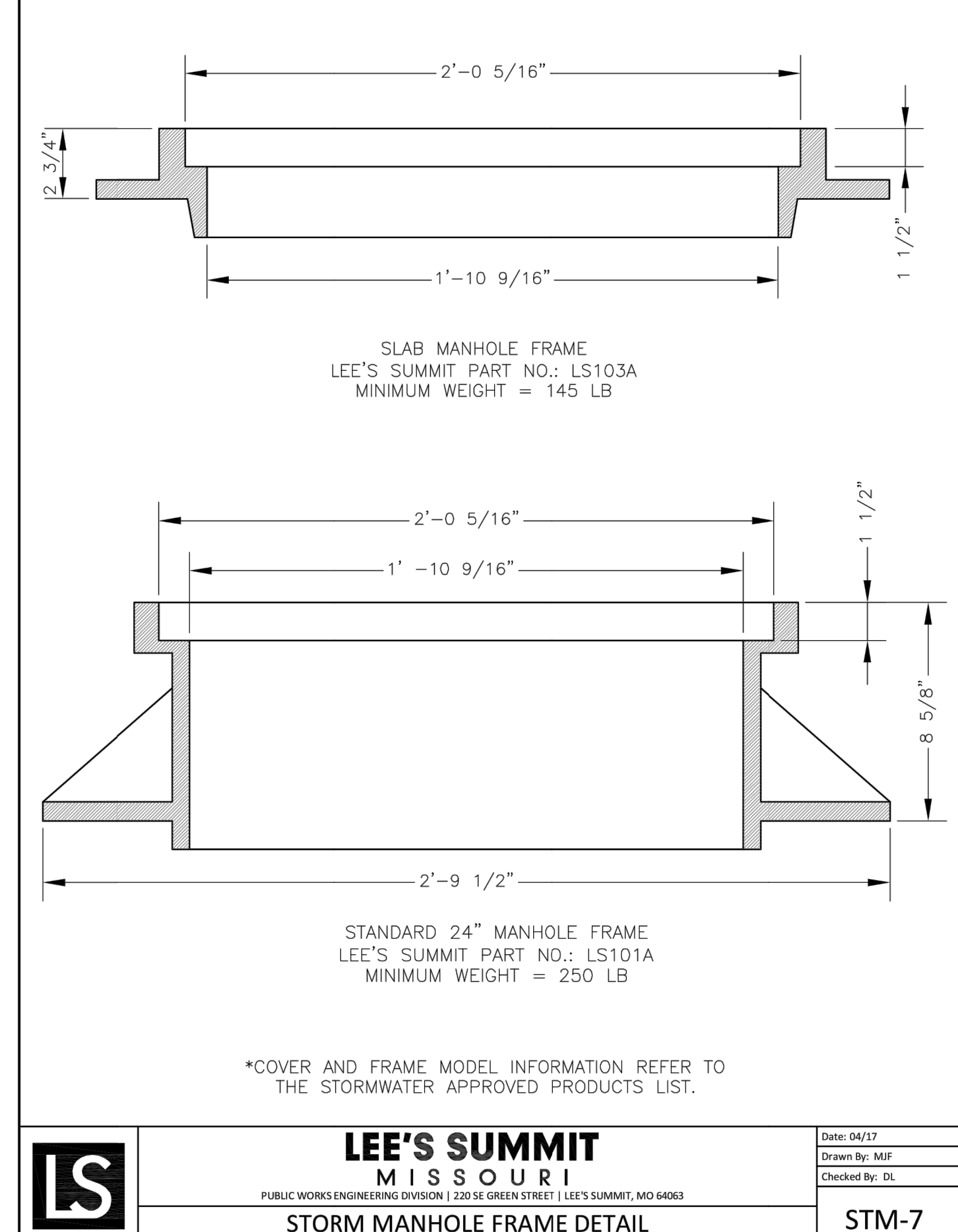
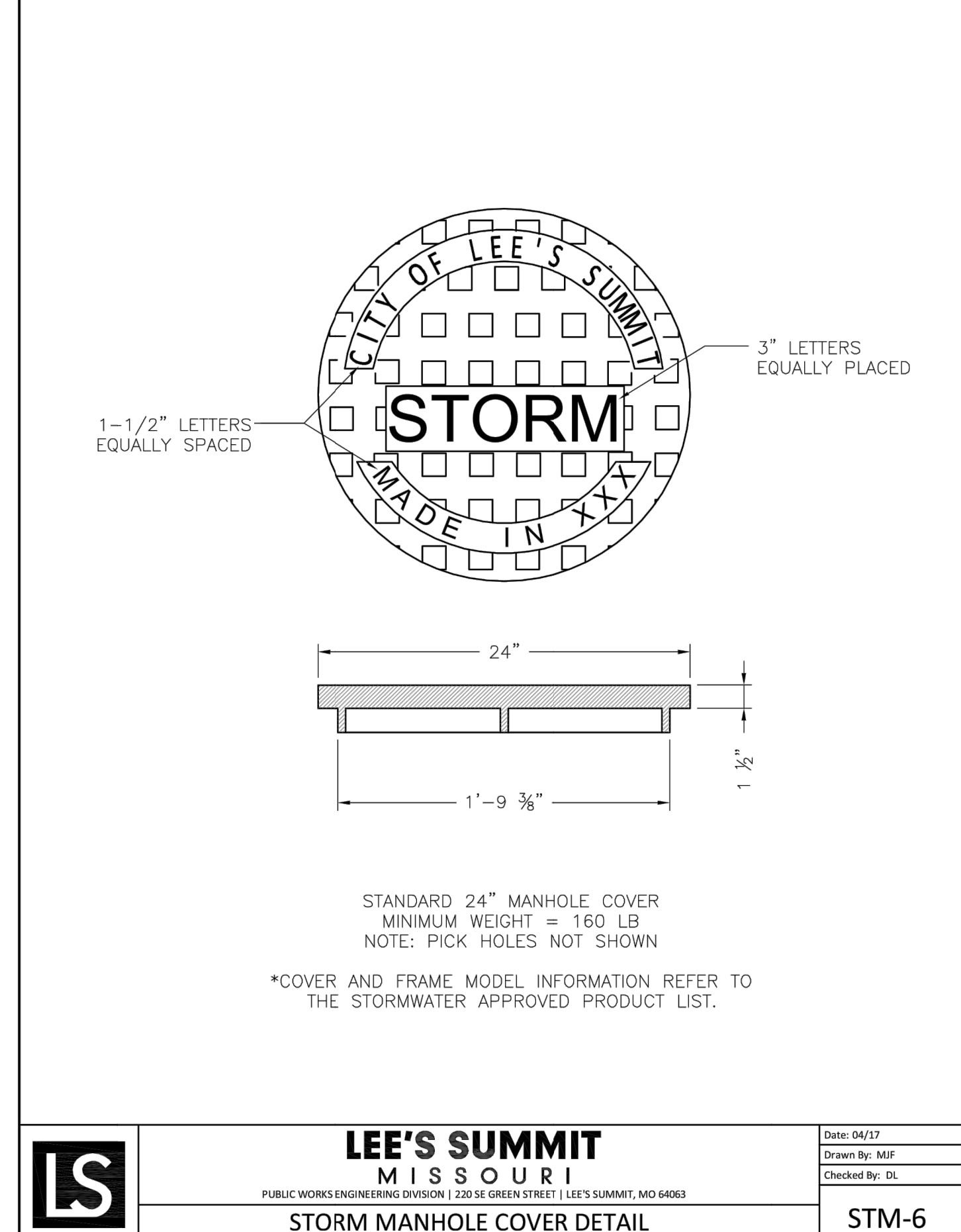
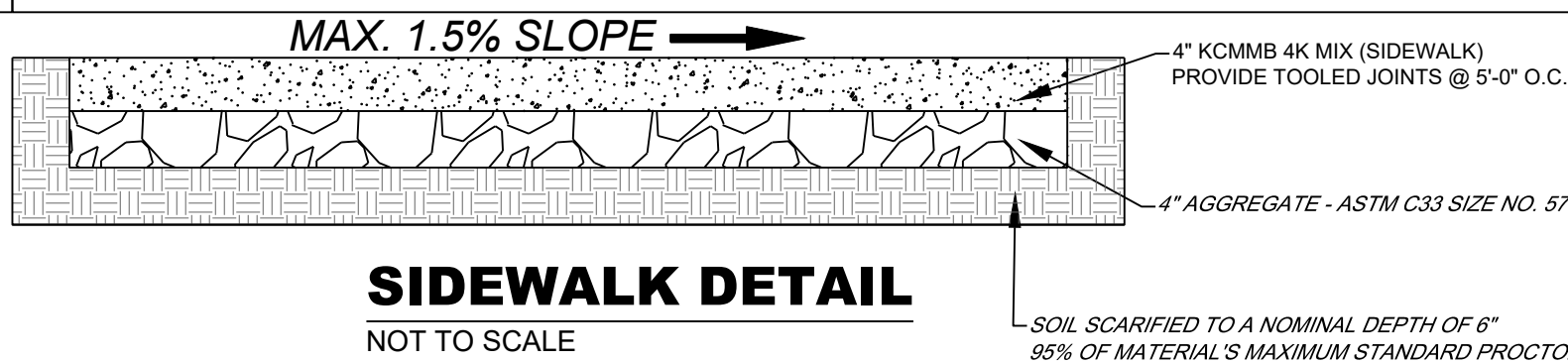
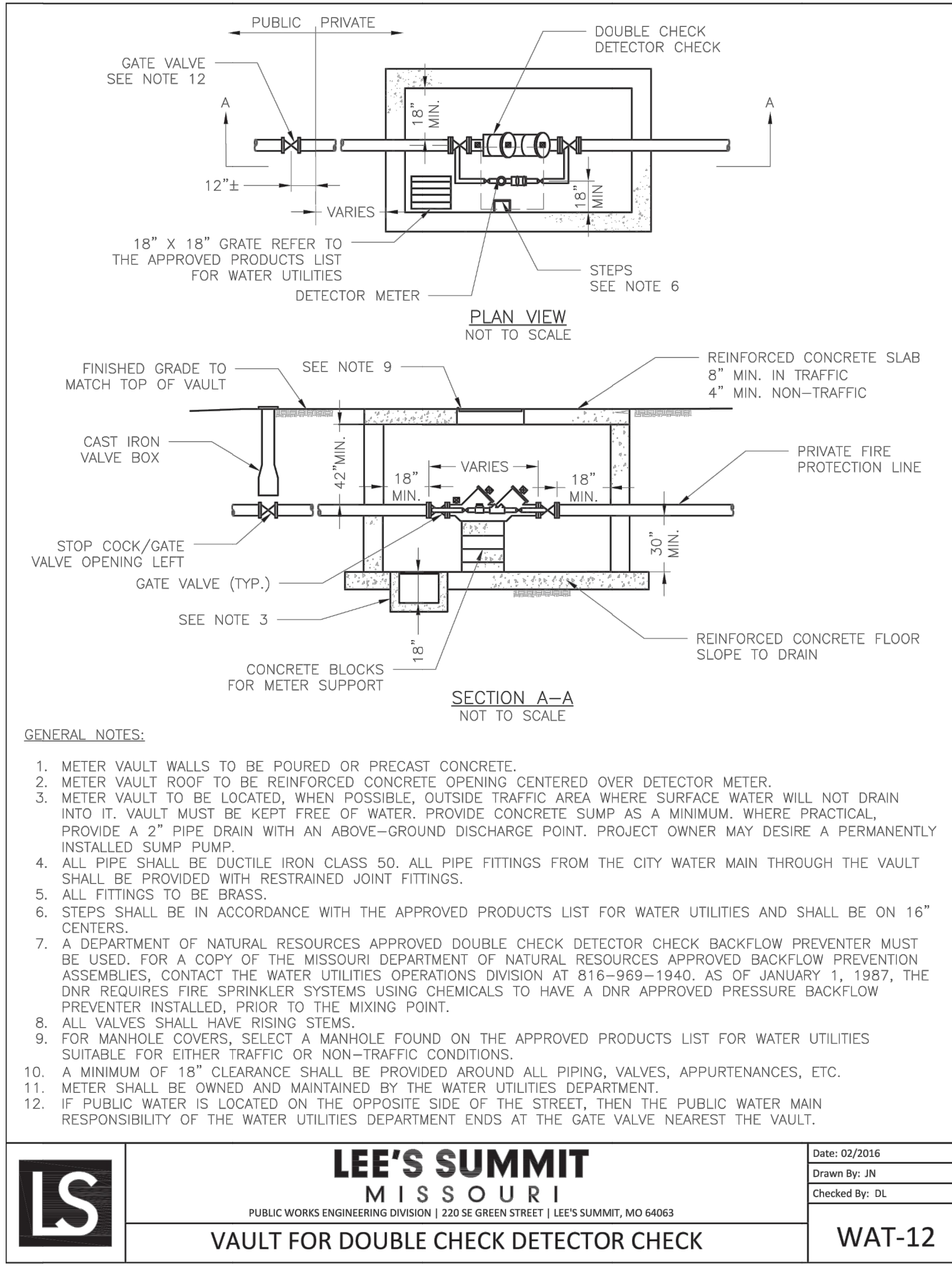
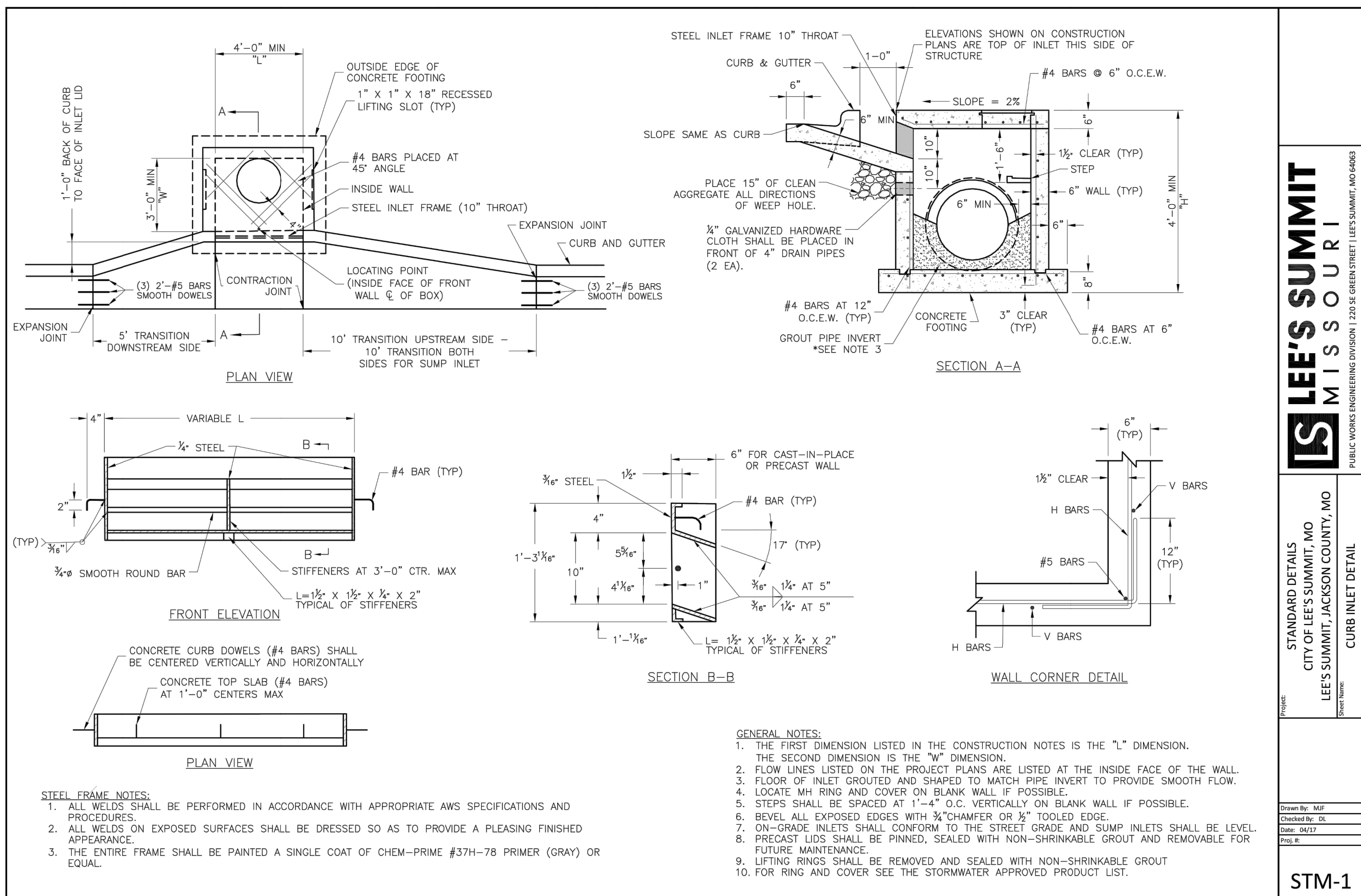
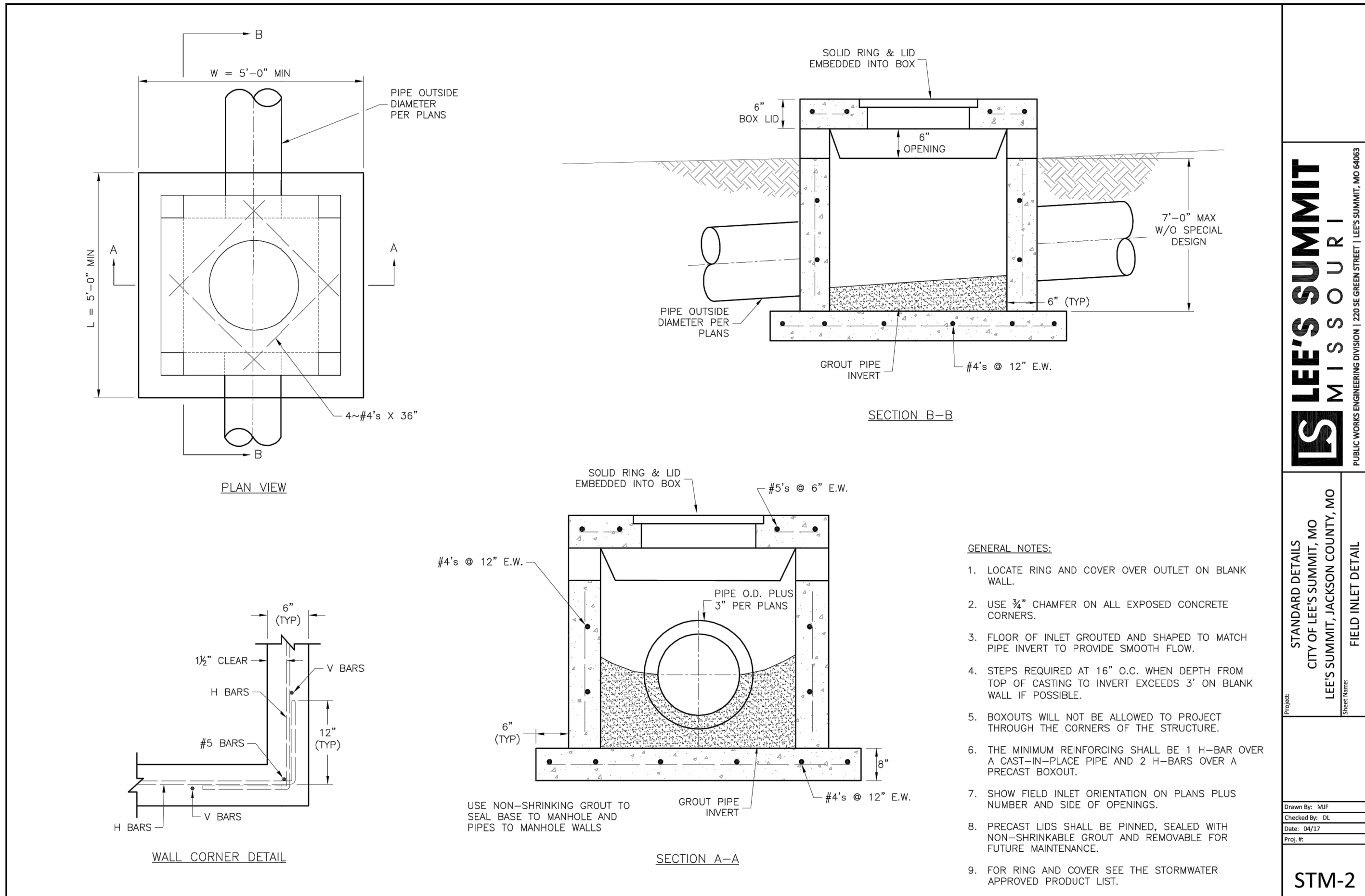
SANITARY SEWER "C" & "D"
PLAN & PROFILE
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



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

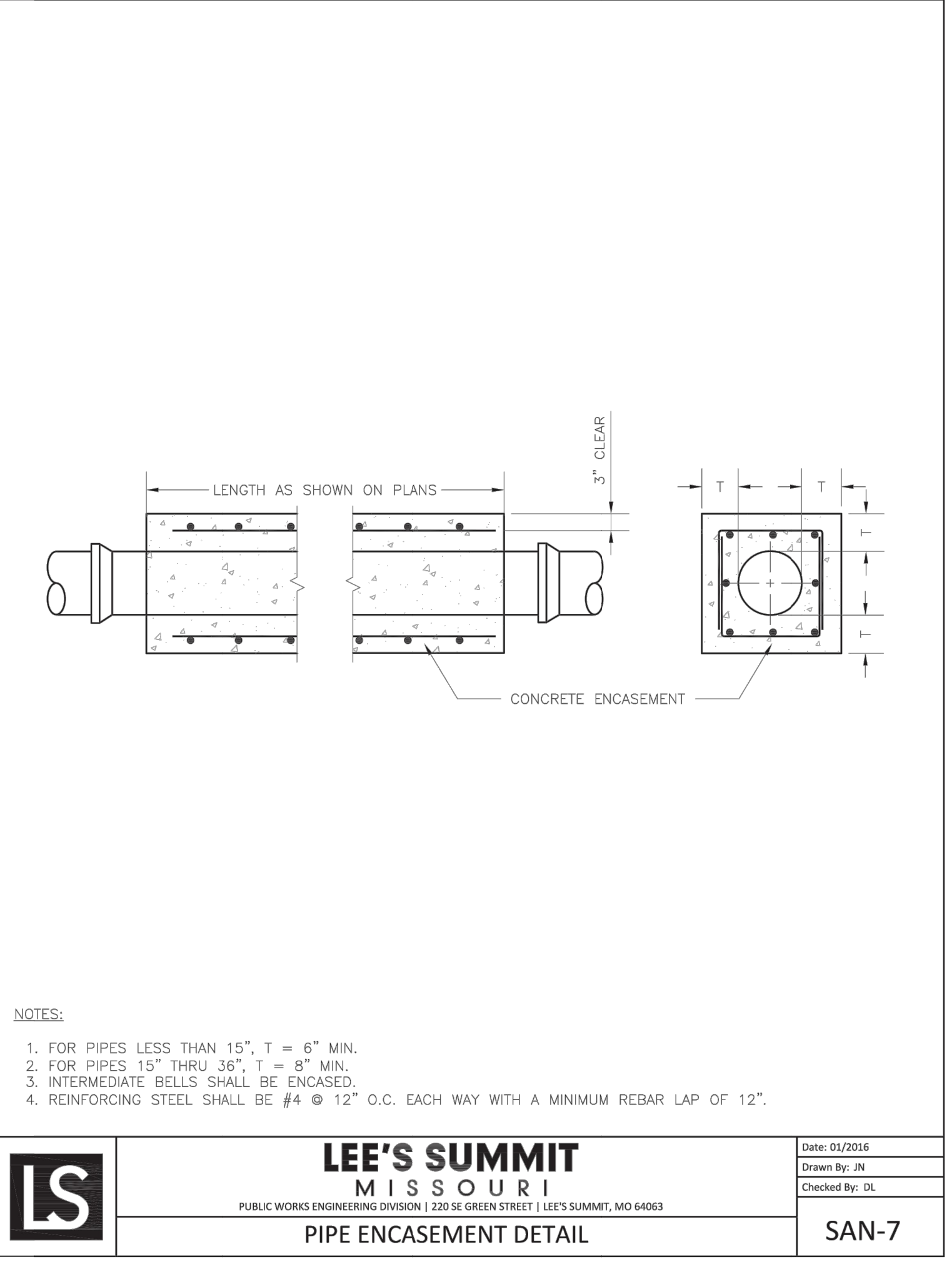
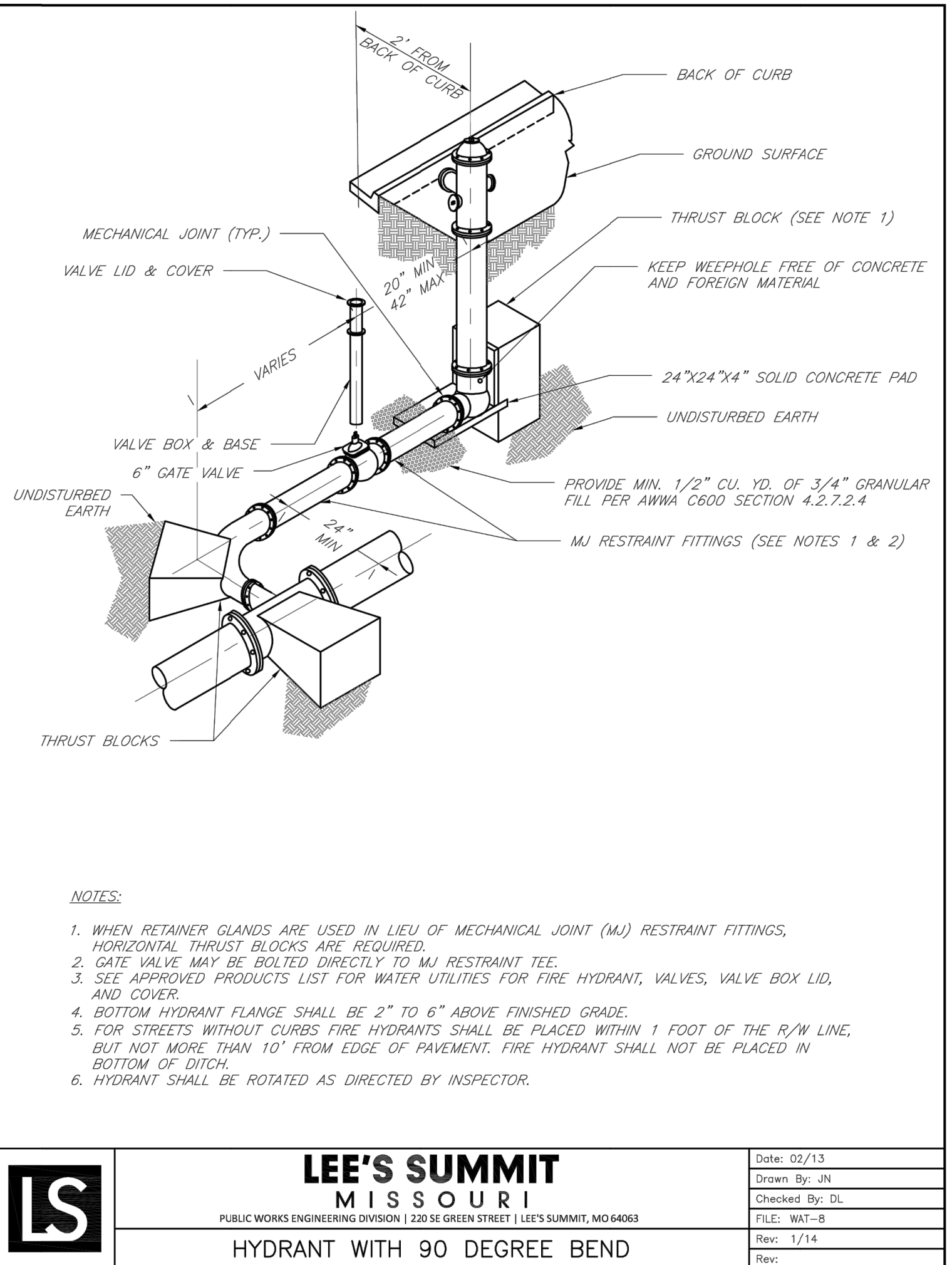
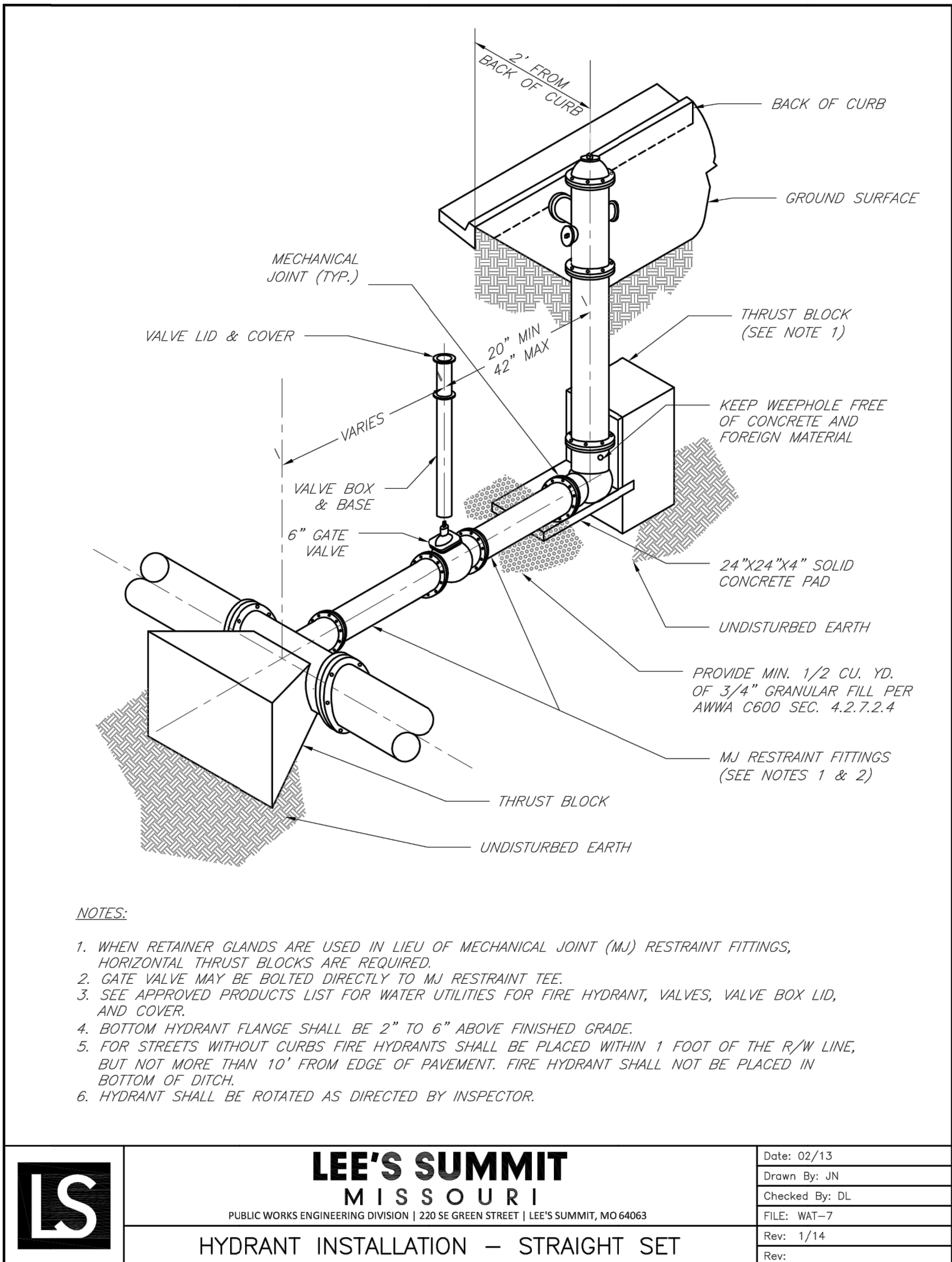
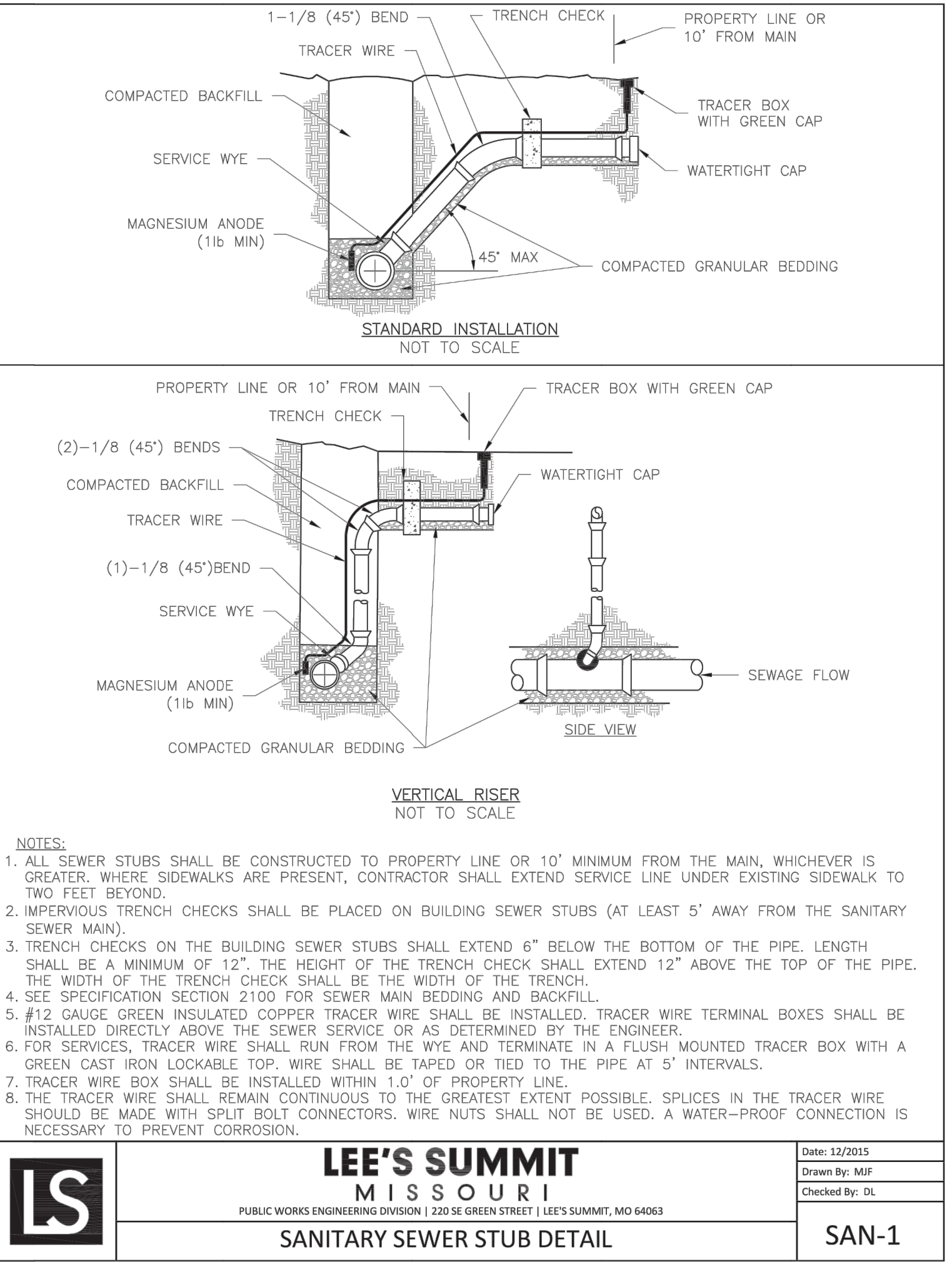
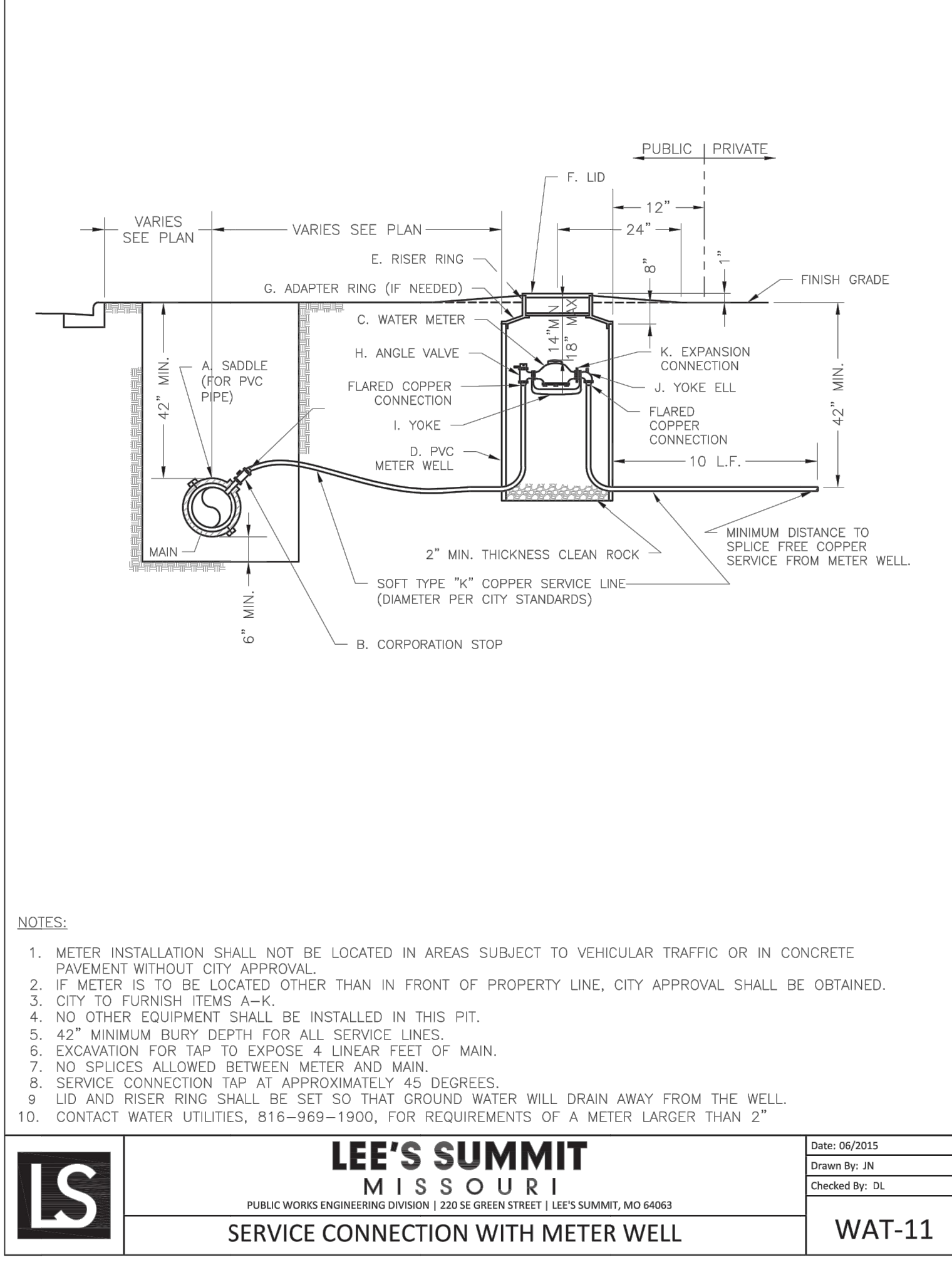
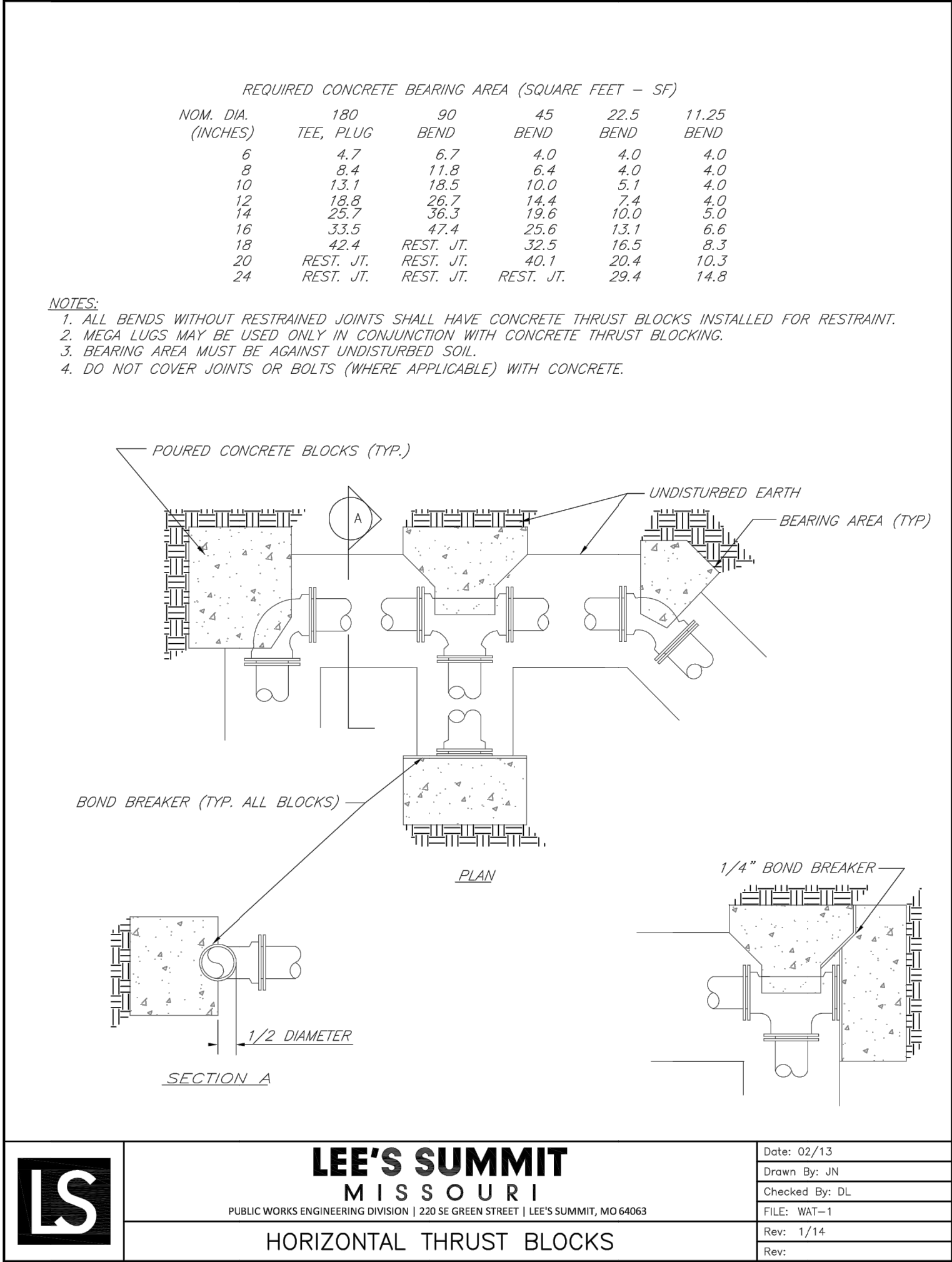
REVISIONS
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REV. 10/18/2021
REV. 11/2/2021
REV. 11/23/2021
REV. 11/29/2021

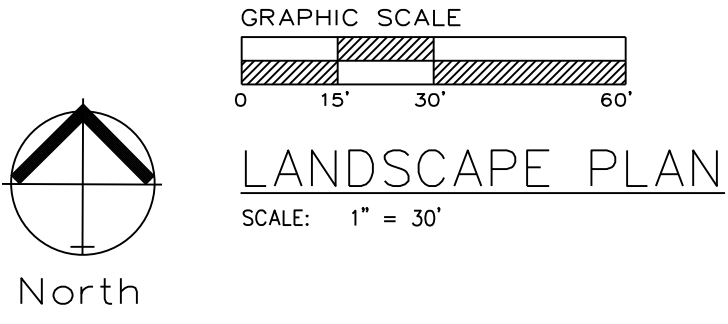
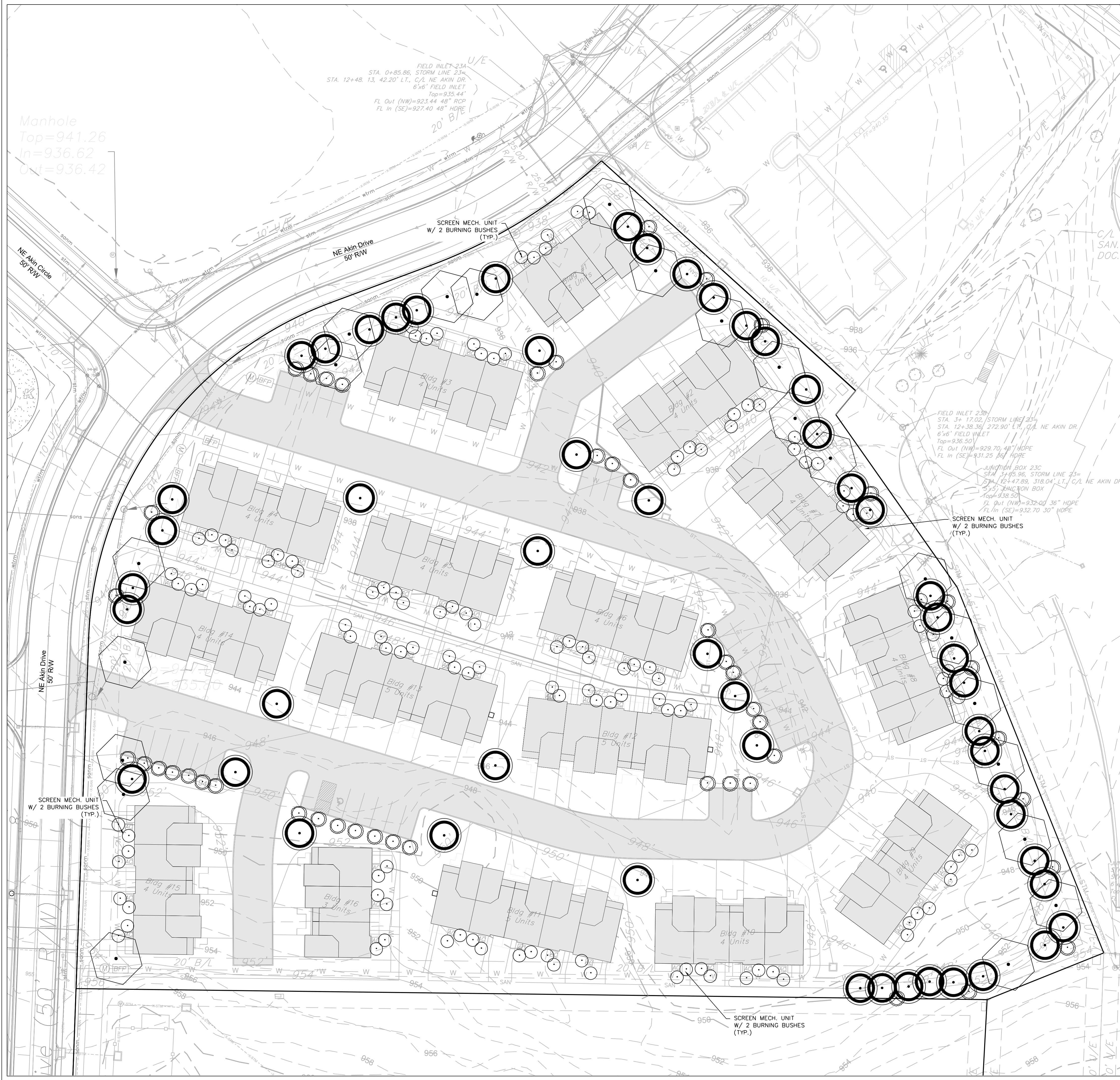




GENERAL NOTE:
1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/14/2021





PLANTING SCHEDULE:
IS FOR PHASE 1 ONLY. AT FULL BUILD THE UNIFIED DEVELOPMENT ORDINANCE REQUIREMENTS SHALL BE MET.

SYMBOL	QUANT.	KEY	NAME	SIZE
tree	22	TA	AMERICAN BASSWOOD LINDEN TILIA AMERICANA	3.0" CAL
evergreen	46	SR	SKYROCKET JUNIPER JUNIPERUS SCOPULORUM "SKYROCKET"	8' HL
tree	53	RB	OKLAHOMA REDBUD CERCIS RENIFORMIS "OKLAHOMA"	3.0" CAL
shrub	130	BB	BURNING BUSH EUONYMUS ALATA "COMPACTUS"	2 Gallon Pot

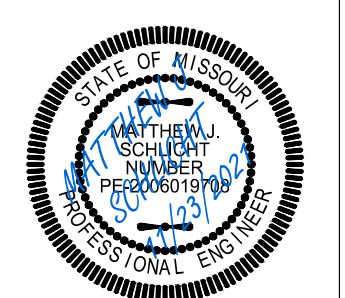
ENGINEERING
ENGINEERING & SURVEYING
SOLUTIONS
50 SE 30TH STREET
LEES SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration
Missouri
Engineering 2005022189-D
Surveying 2005050519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Chapel Ridge Townhomes
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

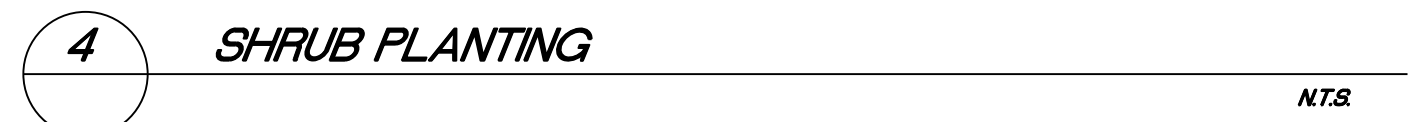
Project:
CHapel Ridge Lot
15, L5MO
Issue Date:
July 15, 2021

LANDSCAPE PLAN
Construction Plans for:
Chapel Ridge Lot 15 C
Lee's Summit, Jackson County, Missouri



REVISIONS
REV. 9/28/2021
REV. 10/18/2021
REV. 11/2/2021
REV. 11/23/2021
REV. 11/29/2021

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Development Services Department
Lee's Summit, Missouri
12/14/2021



4. ALL PLANT MATERIAL SHALL BE FIRST CLASS REPRESENTATIVES OF SPECIFIED SPECIES, VARIETY OR CULTIVAR, IN HEALTHY CONDITION WITH NORMAL WELL DEVELOPED BRANCHES AND ROOT PATTERNS. PLANT MATERIAL MUST BE FREE OF DISEASE, PESTS AND WEEDS. PLANT MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE PROPER STANDARDS AS SET FORTH IN THE AMERICAN ASSOCIATION OF NURSERYMEN'S "AMERICAN STANDARD OF NURSERY STOCK", ANSI Z601.1-2004.
5. SHRUBS SHALL BE CONTAINER GROWN AND WILL BE FREE OF DISEASE AND PESTS. NO BARE ROOT. ALL PLANT BEDS TO A DEPTH OF 1' WITH DARK BROWN, HARDWOOD MULCH. PLANTING BEDS ARE TO BE FREE OF WEEDS AND GRASS. TREAT BEDS WITH A PRE-EMERGENT HERBICIDE PRIOR TO PLANTING AND MULCH PLACEMENT. APPLY IN ACCORDANCE WITH STANDARD TRADE PRACTICE.
6. PLANT BEDS SHALL BE 2' WIDE (2x) THE DIAMETER OF THE ROOT BALL AND ROOT BALL SHALL BE SLIGHTLY MOUNDED FOR RUN-WAY.
7. ALL PLANT MATERIALS SHALL BE PROTECTED FROM THE DRYING ACTION OF THE SUN AND WIND AFTER PLANTING. DURING THE FIRST YEAR, ALL PLANTS SHALL BE PROTECTED WHILE ANY MULCH CAN BE MAINTAINED. IMMEDIATELY SHALL BE PROTECTED FROM DRYING ACTION BY COVERING THEM WITH MOST MULCH. PERIODICALLY, APPLY WATER TO MULCH-COVERED BALLS TO KEEP MOIST. IF PLANTING SHOULD OCCUR DURING PERIODS OF DRY WEATHER, LEAVES SHALL BE COVERED WITH ANTI-TRANSPIRANT. MULCH SHALL BE WINDBURN, REPELTY ANTI-DESCENDANT AFTER PLANTING TO REDUCE TRANSPIRATION. REMOVE TWINE AND BURLAP FROM ROOT BALLS. SOIL ON TOP OF CONTAINERIZED OR BALLED PLANTS IS TO BE REMOVED UNTIL ALL PLANTS' ROOTS ARE EXPOSED TO SOIL. SOIL SHALL BE MOIST.
8. AFTER PLANTING IS COMPLETED, PRUNE MINIMALLY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES. PRUNE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. MAKE CUTS BACK TO BUDS, NOT FLUSH; DO NOT PAINT ANY CUTS WITH TREE PAINT. CENTRAL LEADERS SHALL NOT BE REMOVED.
9. GUARANTEE TREES, SHRUBS, GROUND COVER PLANTS FOR ONE CALENDAR YEAR FOLLOWING PROVISIONAL ACCEPTANCE OF THE OVERALL PROJECT. DURING THE GUARANTEE PERIOD, PLANTS THAT DIE DUE TO NATURAL CAUSES OR THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

7. ALL LAWN AREAS TO BE SODDED OR SEEDED AS SHOWN ON PLANS. SOD SHALL COMPLY WITH US DEPT. OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND EQUAL IN QUALITY TO STANDARDS FOR CERTIFIED SEED. SOD SHALL BE HEALTHY, THICK TURF HAVING UNDERGONE A PROGRAM OF REGULAR FERTILIZING, MOWING AND WEED CONTROL. SEED AND SOD SHALL BE A TURF-TYPE TALL FESCUE (3 WAY) BLEND. SEED BLEND SHALL CONSIST OF THE FOLLOWING:

8. ALL SEEDED AREAS ARE TO BE MULCHED WITH STRAW OR HYDROMULCH AT TIME OF INSTALLATION UNTIL SEED HAS ESTABLISHED.

9. THE INSTALLATION OF ALL PLANT MATERIALS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT, MO. AND LANDSCAPE INDUSTRY STANDARDS.

10. ALL LANDSCAPE AREAS TO BE FREE OF ALL BUILDING DEBRIS AND TRASH, BACK FILL WITH CLEAN FILL SOIL AND TOP DRESSED WITH 4" OF TOPSOIL. TOPSOIL SHALL HAVE A pH RANGE OF 5.5 TO 7 AND A 4% AVAILABLE NUTRIENT CONCENTRATION.
11. PLANT BEDS TO BE "MOUND". ALL PLANT MATERIAL, PLANT BEDS, MULCH AND DUG EDGE ARE TO BE INSTALLED PER LANDSCAPE PLANS, DETAILS, AND MANUFACTURER'S RECOMMENDATIONS.
12. MULCH TO BE 3" DEEP. ALLOWED TO BE EITHER HARDWOOD OR DRY BARK. MULCH TO BE 500 AND 3" FOR MULCH IN PLANT BEDS. HAND RAKE ALL AREAS TO SMOOTH EVEN SURFACES FREE OF DEBRIS, CLOS, ROCKS, AND VEGETATIVE MATTER GREATER THAN 1".
13. ALL PLANT BEDS, SHRUBS AND TREES SHALL BE MULCHED WITH 3" OF DARK BROWN, HARDWOOD MULCH. EXCEPT FOR NOTED AREAS, DARK BROWN, HARDWOOD MULCH SHALL BE INSTALLED OVER DIRT TO A MINIMUM 5' WIDE CONTINUAL PLANT BED IN PLANT BEDS ONLY.
14. CONTRACTOR IS RESPONSIBLE FOR INSTALLING WATERING UPON INSTALLATION.
15. DUG EDGES ARE TO BE 12" HIGH WHERE MULCH BEDS ARE ADJACENT TO TURF AREAS. NO EDGING IS REQUIRED ADJACENT TO PAVEMENT OR CURB.
16. THE EXACT LOCATION OF ALL UTILITIES, STRUCTURES, AND UNDERGROUND UTILITIES SHALL BE DETERMINED PRIOR TO ANY SITE PREP. ANY UTILITIES, STRUCTURES, OR UNDERGROUND UTILITIES NOT SHOWN ON THE EXISTING UTILITIES AND/OR STRUCTURES SHALL BE REPLACED TO THEIR ORIGINAL CONDITION BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER.
17. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS AND READY INSPECTIONS BY LEGAL AUTHORITIES.
18. PROVISIONS SHALL BE MADE FOR READILY ACCESSIBLE IRRIGATION WITHIN 100' MAX. OF ALL LANDSCAPED AREAS INCLUDING ALL PLANT BEDS, INDIVIDUAL TREES, AND TURF AREAS. ALL LAWN AREAS (AS SHOWN ON PLANS) SHALL BE IRRIGATED BY A DRAINAGE DRAINAGE SINKER SYSTEM. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL IRRIGATION COMPONENTS, SLEEPING, PIPE AND CONTROL DESIGN DRAWINGS OF IRRIGATION SYSTEM SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
19. ANY SUBSTITUTIONS OR DEVIATIONS SHALL BE REQUESTED IN WRITING BY THE CONTRACTOR FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION OF PLANT MATERIALS. ALL PLANTS ARE TO BE LOCATED AS SPECIFIED ON DRAWINGS.

20. ALL SHRUBS ARE TO BE MAINTAINED IN THEIR NATURAL SHAPE TO ALLOW EVENTUAL GROWTH INTO A HEDGE.
21. MAINTAIN NATURAL HABIT OF ALL SPECIFIED PLANT MATERIAL.
22. NEW SOD TO BE THOROUGHLY WATERED UNTIL ROOTS "TAKE HOLD" OF SOD BED. CONTINUE WATERING AS REQUIRED, UNTIL COMPLETELY ESTABLISHED.

1. GENERAL - IRRIGATION SYSTEM TO INCLUDE DRIP IRRIGATION OF SHRUB BEDS ADJACENT TO BUILDINGS, SPRAY HEADS IN PARKING AREAS, AND ROTORS AROUND THE PERIMETER OF THE PARKING LOTS. HEADS SHALL THROW AROUND FROM BUILDING AND ACID SPRAYING OVER SIDEWALKS.
2. IRRIGATION SYSTEM SHALL CONFORM TO ALL INDUSTRY STANDARDS AND ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING DESIGN AND INSTALLATION.
3. WATERLINE TYPW, SIZE LOCATION, PRESSURE AND FLOW SHALL BE FIELD VERIFIED PRIOR TO SYSTEM DESIGN AND INSTALLATION.
4. ALL MATERIALS SHALL BE FROM NEW STOCK FREE OF DEFECTS AND CARRY A MINIMUM ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT ALL SYSTEM COMPONENTS OPERATE WITHIN THE GUIDELINES ESTABLISHED BY THE MANUFACTURER.
6. LAWN AREA AND SHRUB BEDS SHALL BE ON SEPARATE CIRCUITS.
7. PROVIDE WATER TAP, METER SET, METER VAULT AND ALL OTHER OPERATIONS NECESSARY TO PROVIDE WATER FOR IRRIGATION SHALL CONFORM TO LOCAL WATER GOVERNING AUTHORITY GUIDELINES AND STANDARDS.
8. BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
9. IRRIGATION CONTROLLER TO BE LOCATED IN UTILITY ROOM INSIDE BUILDING, AS IDENTIFIED BY OWNER.
10. IRRIGATION CONTROLLER STATIONS SHALL BE LABELED TO CORRESPOND WITH THE CIRCUIT IT CONTROLS.
11. CONTRACTOR SHALL PROVIDE TO THE OWNER WRITTEN OPERATION INFORMATION FOR ALL SYSTEM COMPONENTS.
12. CONTRACTOR SHALL PROVIDE TO THE OWNER ALL KEYS, ACCESS TOOLS, WRENCHES AND ADJUSTING TOOLS NECESSARY TO GAIN ACCESS, ADJUST AND CONTROL THE SYSTEM.
13. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
14. AN AUTOMATIC RAIN SHUT-OFF OR MOISTURE DEVICE SHALL BE INSTALLED.
15. INSTALL SCHEDULE 40 PVC SLEEVES UNDER ALL CURBS, PAVING AND SIDEWALKS. SLEEVES TO BE TWICE THE SIZE OF THE LINE IT HOURS.
16. INSTALL MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN TO ALLOW GRAVITY DRAINING OF MAIN DURING WINTER MONTHS. PROVIDE QUICK COUPLERS AT MULTIPLE LOCATIONS TO ALLOW FOR EASY "BLOWING OUT" OF LATERAL AND MAIN LINES.
17. ZONES OR NOZZLES SHALL BE DESIGNED WITH MATCHED PRECIPITATION RATES.
18. MINIMUM LATERAL DEPTH IS 15" AND MAIN DEPTH IS 18".
19. SUBMIT DESIGN DRAWING WITH BID TO ALLOW OWNER TO EVALUATE SYSTEM. INCLUDE CUT SHEETS OF ALL COMPONENTS AND ZONE TABLE ILLUSTRATING FLOWS AND ANTICIPATED PRESSURE AT FURTHEST HEAD.
20. AN "AS-BUILT" SCALED DRAWING SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR AND SHALL INCLUDE UT NOT BE LIMITED TO THE FOLLOWING:

- SUBMIT AS-BUILT DRAWING IN FULL SIZE DRAWING FORM AS WELL AS PDF ELECTRONIC FORMAT. (SCANNING FULL SIZE COPY OF PLAN IS ACCEPTABLE IF IT CAN BE PRINTED TO SCALE.