

I:\PROJECTS\2019\19-0023\0 Design\3.0 DWG Plans\8.0 Water\19-002-WATER-COVER.dwg, 6/19/2019 8:20:53 AM, 11

LEGEND:

A/E- ACCESS EASEMENT

BC- BACK OF CURB

B/B- BACK TO BACK

BM- BENCHMARK

BL or B.L.- BUILDING LINE

CO- CLEANOUT

TJB- TELEPHONE JUNCTION BOX

C&G- CURB AND GUTTER

D/E- DRAINAGE EASEMENT

E/E- ELECTRICAL EASEMENT

EL- ELEVATION

FL- FLOW LINE

G/E- GAS LINE EASEMENT

HDPE- HIGH-DENSITY POLYETHYLENE

L/E- LANDSCAPE EASEMENT

MSFE- MINIMUM SERVICEABLE FLOOR ELEVATION

PVC- POLYVINYL CHLORIDE

P/L- PROPERTY LINE

PUB/E- PUBLIC EASEMENT

RCP- REINFORCED CONCRETE PIPE

ROW or R/W- RIGHT-OF-WAY

S/E- SANITARY SEWER EASEMENT

SL- SERVICE LINE

S/W- SIDEWALK

TE- TOP ELEVATION

U/E- UTILITY EASEMENT

WSE- WATER SURFACE ELEVATION

W/E- WATERLINE EASEMENT

ASPHALT PAVEMENT - EXISTING

ASPHALT PAVEMENT - PROPOSED

CONCRETE PAVEMENT - EXISTING

ASPHALT PAVEMENT - EXISTING

CONCRETE SIDEWALK - EXISTING

CONCRETE SIDEWALK - PROPOSED

CURB & GUTTER

CURB & GUTTER - EXISTING

TREELINE

EXISTING LOT AND R/W LINES

EXISTING PLAT LINES

P/L- PROPERTY LINES

ROW- RIGHT-OF-WAY

SANITARY SEWER MAIN

SANITARY SEWER MAIN - EXIST.

STO- STORM SEWER

STORM SEWER - EXISTING

CATV_x- CABLE TV - EXISTING

FOC_x- FIBER OPTIC CABLE - EXISTING

T_x- TELEPHONE LINE - EXIST.

E_x- ELECTRIC LINE - EXISTING

OHP_x- OVERHEAD POWER LINE - EXIST.

UGE_x- UNDERGROUND ELECTRIC - EX.

G_x- GAS LINE - EXISTING

W_x- WATERLINE - EXISTING

LIGHT - EXISTING

EXISTING MANHOLE

CLEANOUT

EXISTING SANITARY MANHOLE

PROPOSED SANITARY MANHOLE

EXISTING AREA INLET

EXISTING CURB INLET

EXISTING GRATE INLET

EXISTING JUNCTION BOX

EXISTING STORM MANHOLE

SECTION 9-47-32

SECTION 10-47-32

SECTION 15-47-32

LOCATION MAP

SCALE 1" = 2000'

PROJECT LOCATION

9

10

15

SE 1/4

SW 1/4

NW 1/4

NE 1/4

SW LONGVIEW PARK DR.

3RD ST.

5TH ST.

6TH ST.

WATER LINE PLANS

FOR

PERGOLA PARK 4TH PLAT

IN THE CITY OF LEE'S SUMMIT

JACKSON COUNTY, MISSOURI

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
1	COVER
2	GENERAL LAYOUT
3	LINES 1 AND 3 PLAN AND PROFILE
4	LINES 2 & 4 PLAN AND PROFILE
5	WATER LINE DETAILS

MISSOURI GEOGRAPHIC REFERENCE SYSTEM

BENCH MARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.

ELEV. 935.18

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148

EASTING: 2803318.5413

ELEV. 1004.09

PREPARED AND SUBMITTED BY:

SCHLAGEL & ASSOCIATES, P.A.

APPROVED BY:

CITY ENGINEER

APPROVED FOR ONE YEAR FROM THIS DATE

DATE

OWNER/DEVELOPER:

NAI HEARTLAND

RUSSELL PEARSON

4400 COLLEGE BLVD., SUITE 170

OVERLAND PARK, KS 66211

p 913-362-1000

f 913-273-0205

RUSSELL@NAI-HEARTLAND.COM

UTILITY CONTACTS:

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)

Steve Holloway

600 NE Colbern Road

Lee's Summit, MO 64086

(816) 607-2186

MISSOURI GAS ENERGY (MGE)

Brent Jones

3025 SE Clover Drive

Lee's Summit, MO 64082

(816) 399-9633

brent.jones@spireenergy.com

KANSAS CITY POWER & LIGHT COMPANY (KCP&L)

Ron Dejanette

1300 SE Hamblin Road

Lee's Summit, MO 64081

Office: (816) 347-4316

Cell: (816) 810-5234

ron.dejanette@kcpl.com

CITY OF LEE'S SUMMIT PUBLIC WORKS

Dena Mezger

220 SE Green Street

Lee's Summit, MO 64063

(816) 969-1800

AT&T

Mark Manion or Marty Loper

500 E. 8th Street, Room 370

Kansas City, MO 64106

(816) 275-2341 or (816) 275-1550

COMCAST CABLE

John Meadows

4700 Little Blue Parkway

Independence, MO 64057

(816) 795-2257

CITY OF LEE'S SUMMIT WATER UTILITIES

Mark Schauler

1200 SE Hamblin Road

Lee's Summit, MO 64081

(816) 969-1900

GENERAL NOTES:

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

2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.

3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.

4. NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.

5. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.

7. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.

8. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.

9. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.

10. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST.

11. ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.

13. THE CONTRACTOR SHALL CONTACT DEVELOPMENT SERVICES INSPECTIONS AT: 816-969-1800 TO OBTAIN A DEVELOPMENT SERVICES CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO PERMIT ISSUANCE.

14. THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.

15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

16. ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF TRENCH, TO 12 INCHES ABOVE PIPE, FOR A MINIMUM LENGTH OF 12 INCHES. TRENCH CHECK SHALL BE LOCATED AT LEAST 5 FEET FROM SANITARY MAIN.

EARTHWORK:

1. PRIOR TO EARTHWORK ACTIVITIES, PRE-DISTURBANCE EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PER THE STORM WATER POLLUTION PREVENTION PLAN AND/OR THE EROSION AND SEDIMENT CONTROL PLAN PREPARED FOR THIS SITE.

2. ALL BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO 95-PERCENT OF MAXIMUM DENSITY AS DEFINED USING A STANDARD PROCTOR TEST (AASHTO T99/ASTM 698).

3. BACKFILL MATERIALS SHALL NOT INCLUDE ORGANIC MATTER, DEBRIS OR TOPSOIL.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REDISTRIBUTING THE TOPSOIL OVER PROPOSED TURF AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6-INCHES BELOW FINAL GRADE.

5. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. UNLESS NOTED OTHERWISE THE FOLLOWING GRADES SHALL APPLY.

A. TURF AREAS - 2.5% MINIMUM, 4H:1V MAXIMUM

6. ALL DISTURBED AREAS SHALL BE FERTILIZED, SEEDED AND MULCHED IMMEDIATELY AFTER EXCAVATION ACTIVITIES HAVE CEASED. SEEDING SHALL BE PER THE EROSION AND SEDIMENT CONTROL PLAN AND/OR LANDSCAPE PLAN. IF NOT SPECIFIED SEEDING SHALL BE PER APWA SECTION 2400, LATEST EDITION, UNLESS OTHERWISE NOTED. SEEDING SHALL BE SUBSIDIARY TO THE CONTRACT PRICE FOR PIPE INSTALLATION.

CONTRACTOR SHALL ADHERE TO THE REPORTING REQUIREMENTS OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED AND KEPT CLEAN OF SILT AND DEBRIS AND IN GOOD WORKING ORDER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.

UTILITIES:

1. EXISTING UTILITIES HAVE BEEN SHOWN TO THE GREATEST EXTENT POSSIBLE BASED UPON INFORMATION PROVIDED TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES AND FIELD LOCATING UTILITIES PRIOR TO CONSTRUCTION AND IDENTIFYING ANY POTENTIAL CONFLICTS. ALL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY REQUIRED UTILITY RELOCATIONS. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

3. CONTRACTOR SHALL VERIFY FLOW-LINES AND STRUCTURE TOPS PRIOR TO CONSTRUCTION, AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. PROVIDE SHOP DRAWINGS FOR ALL PRECAST AND MANUFACTURED UTILITY STRUCTURES FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE STRUCTURES.

4. UTILITY SEPARATION: WATERLINES SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWER LINES. IF MINIMUM SEPARATIONS CAN NOT BE OBTAINED, DUCTILE IRON PIPE, DIP, SHALL BE REQUIRED 10 FEET IN EACH DIRECTION OF THE CONFLICT ON THE WATER LINE.

5. PAYMENT FOR TRENCHING, BACKFILLING, PIPE EMBEDMENT, FLOWABLE FILL, BACKFILL MATERIALS, CLEAN UP, SEEDING, SODDING AND ANY OTHER ITEMS NECESSARY FOR THE CONSTRUCTION OF THE UTILITY LINE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE UTILITY INSTALLATION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING RESPECTIVE UTILITY COMPANIES 48-HOURS IN ADVANCE FOR THE INSPECTION OF ANY PROPOSED UTILITY MAIN EXTENSION OR SERVICE LINE OR SERVICE CONNECTION TO ANY EXISTING MAIN.

7. TRENCH SPOILS SHALL BE NEATLY PLACED ONSITE ADJACENT TO THE TRENCH, AND COMPACTED TO PREVENT SATURATION AND EXCESS SEDIMENT RUNOFF. UNSUITABLE MATERIALS, ROCK AND SHALE, ASPHALT, CONCRETE, TREES, BRUSH ETC. SHALL BE PROPERLY DISPOSED OF OFFSITE. MATERIALS MAY BE WASTED ONSITE AT THE DIRECTION OF THE OWNER OR HIS APPOINTED REPRESENTATIVE.

SUMMARY OF QUANTITIES

	ITEM	QUANTITY	UNITS
1	CONNECT TO EXISTING WATER LINE	5	EA
2	FIRE HYDRANT ASSEMBLY	3	EA
3	END OF LINE TEMPORARY FIRE HYDRANT ASSEMBLY	1	EA
4	REMOVE TEMPORARY FIRE HYDRANT ASSEMBLY	2	EA
5	8" C-900 PVC	1,598	LF
6	8" CLASS 50 D.I.P.	20	LF
7	12" CLASS 50 D.I.P.	124	LF
8	8" GATE VALVE	4	EA
9	8" X 8" TEE	2	EA
10	8" 11.25" PVC BEND	18	EA
11	8" 22.5" PVC BEND	2	EA
12	8" 45" PVC BEND	6	EA
13	8" 22.5" D.I.P. BEND	1	EA
14	8" 45" D.I.P. BEND	1	EA
15	12"x8" REDUCER	1	EA
16	12" 22.5" D.I.P. BEND	2	EA
17	12" 45" D.I.P. BEND	4	EA
18	12"x8" TEE	1	EA

SCHLAGEL & ASSOCIATES, P.A.

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(913) 492-5158 • Fax: (913) 492-8400

WWW.SCHLAGELASSOCIATES.COM

Missouri State Certificates of Authority

#E2002003600-F #LAC2001005237 #LS200200859-F

PERGOLA PARK 4TH PLAT

WATER LINE PLANS

- LEE'S SUMMIT, MISSOURI

REVISION DATE

DESCRIPTION

6-10-19

City Comments

DRAWN BY:

BAL

CHECKED BY:

MAB

DATE PREPARED:

4-22-19

PROJ. NUMBER:

19-002

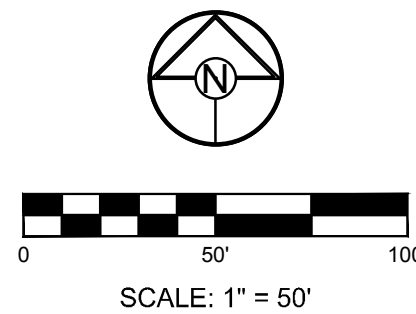
COVER

SHEET

1

OF 5

I:\PROJECTS\2019\19-0023\0 DWG Plans\8 0 Water\19-002 WATER-GEN LAYOUT.dwg, 6/19/2019 8:21:19 AM, 1:1



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCH MARK:**

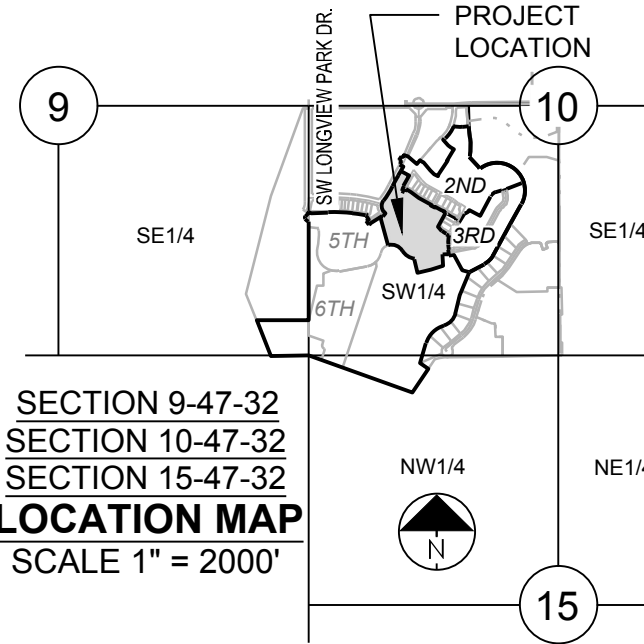
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NORTHING: 998893.4148
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- GENERAL NOTES:**
- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
 - FOR ALL WATER LINES THE MAXIMUM DEPTH OF COVER IS SEVEN (7) FEET.

**PERGOLA PARK 4TH PLAT
WATER LINE PLANS**

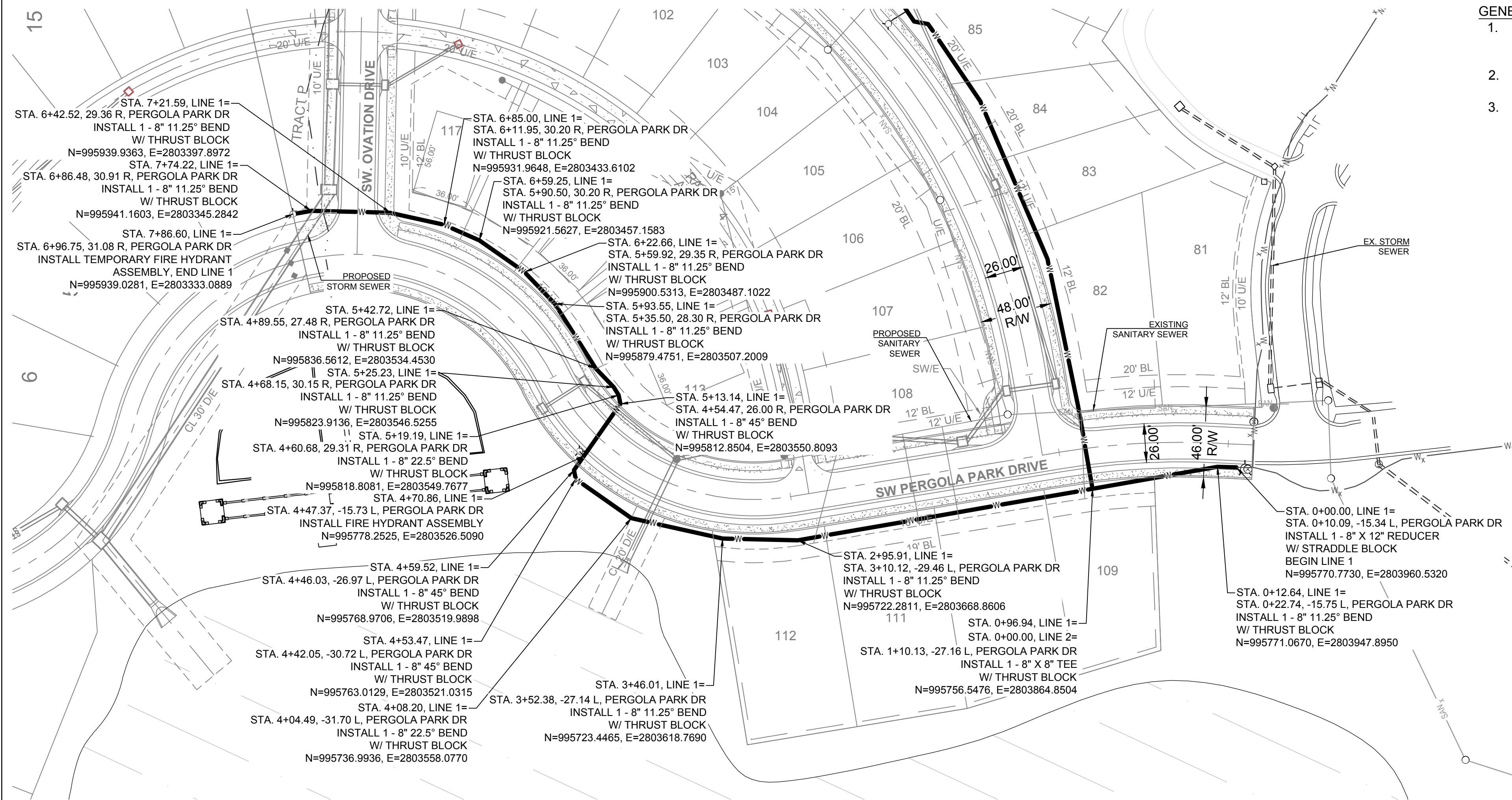
- LEE'S SUMMIT, MISSOURI

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REVISION DATE	DESCRIPTION
6-10-19	City Comments
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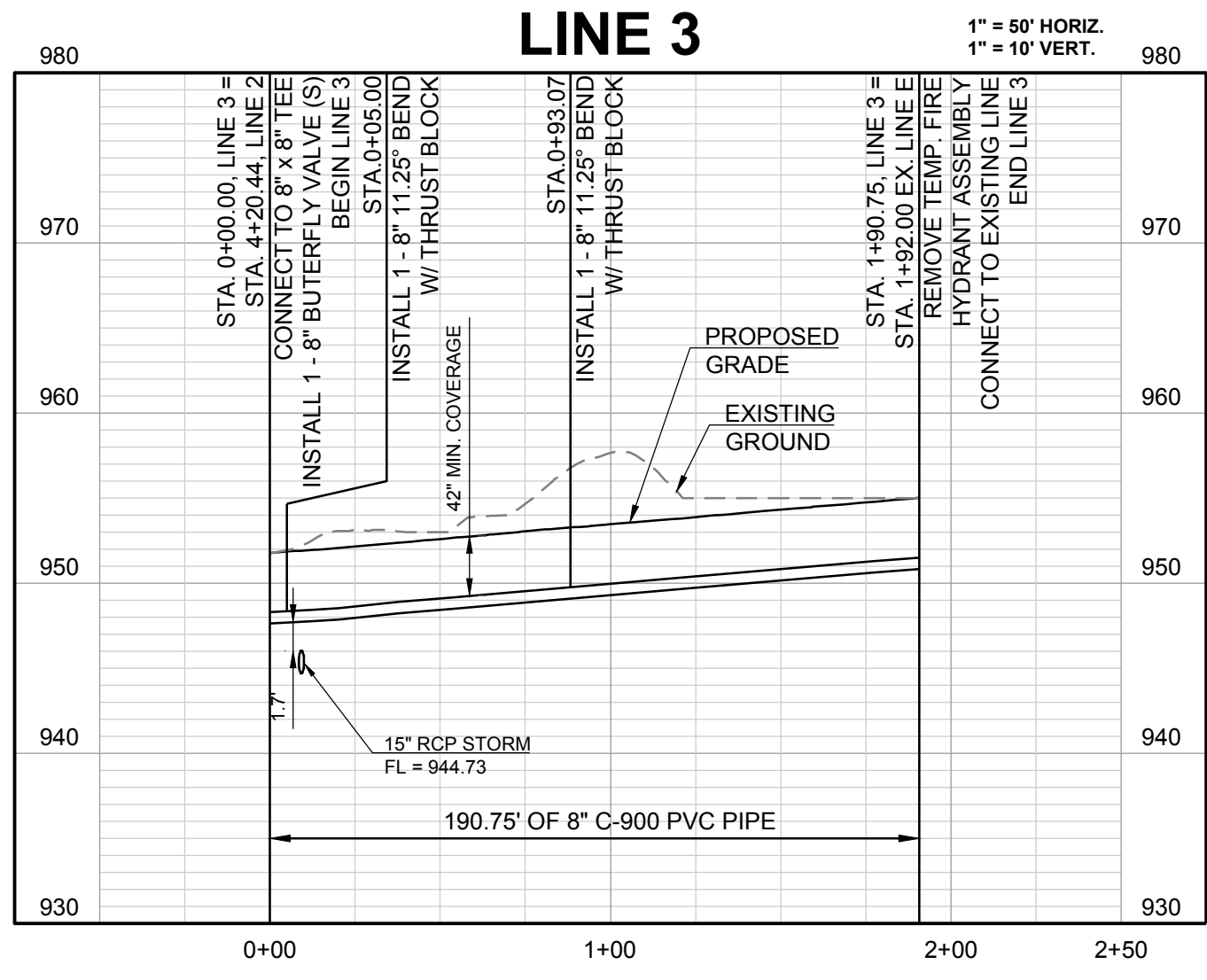
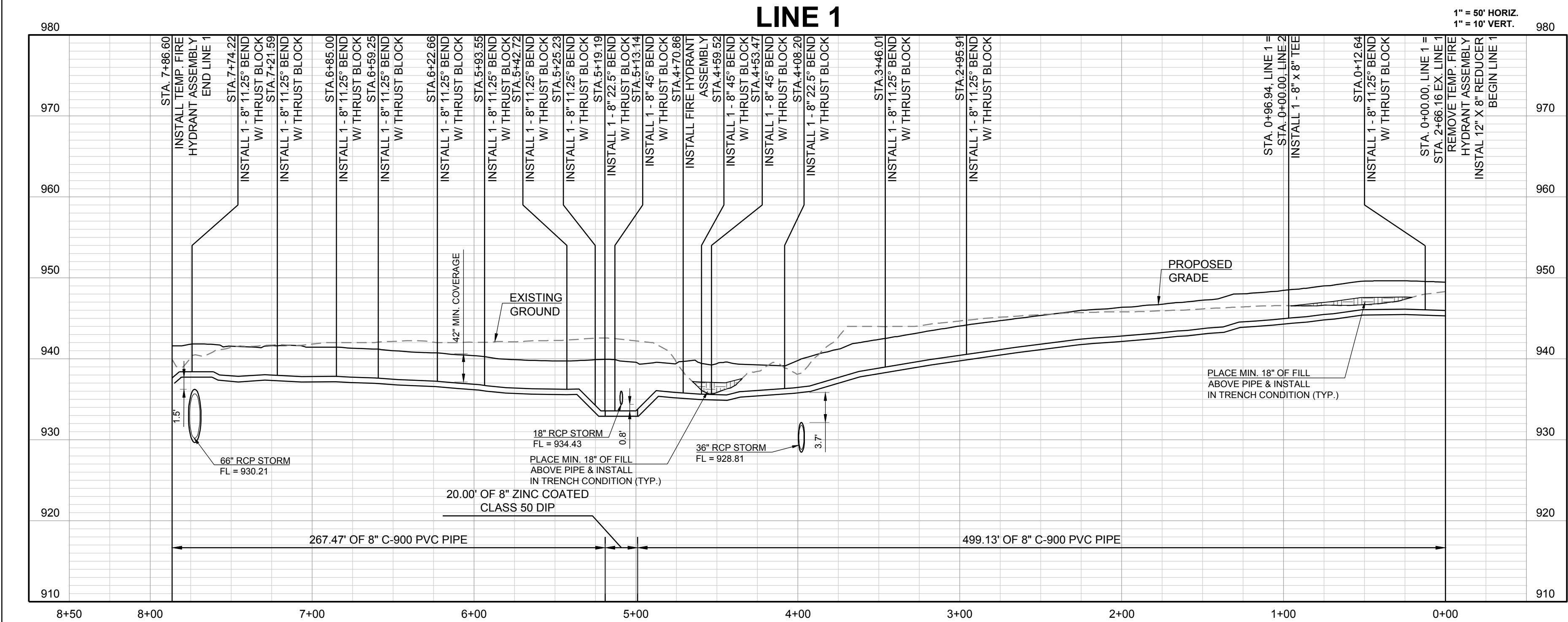
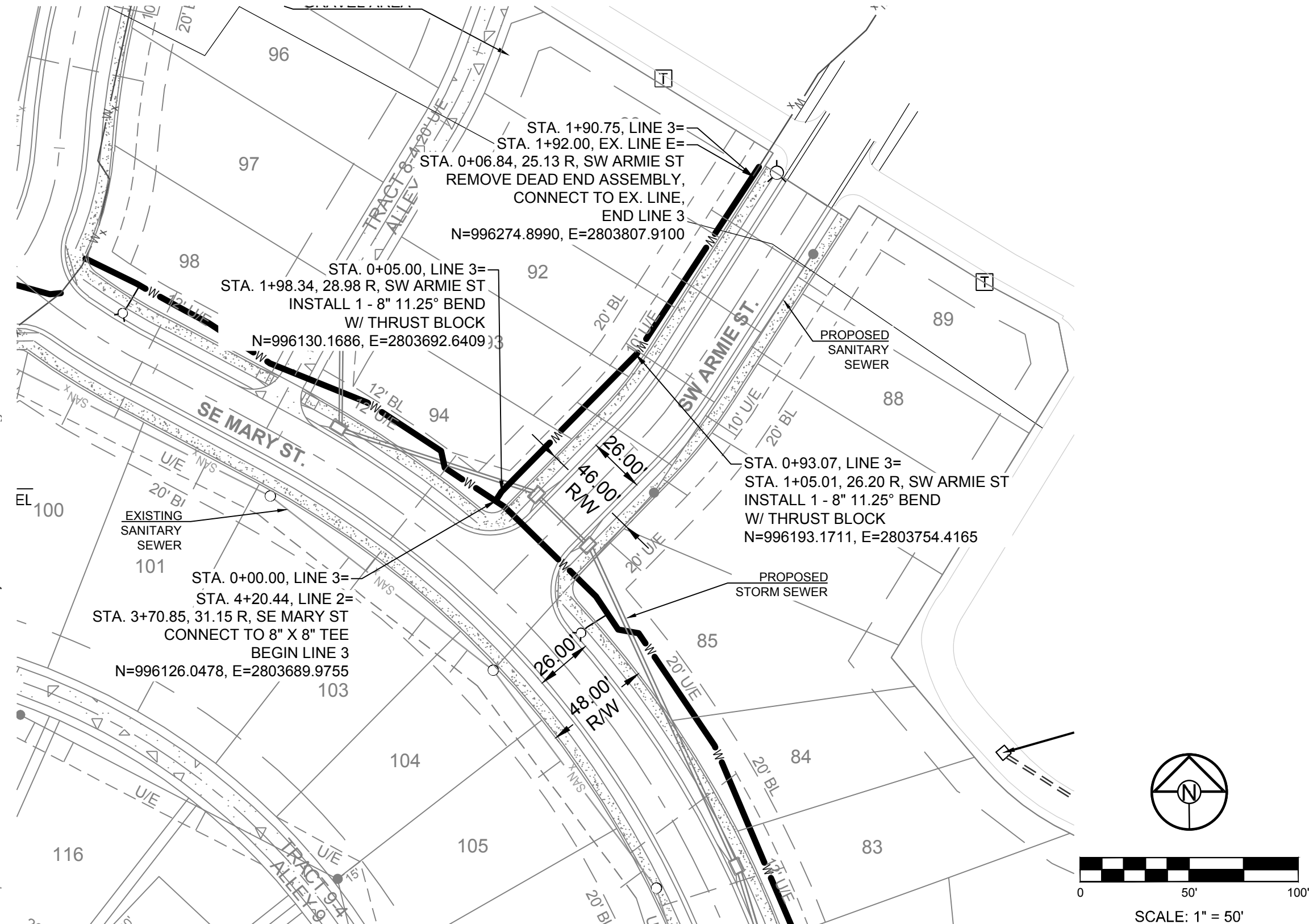


- GENERAL NOTES:
- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
 - FOR ALL WATER LINES THE MAXIMUM DEPTH OF COVER IS SEVEN (7) FEET.

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09



PERGOLA PARK 4TH PLAT
WATER LINE PLANS

- LEE'S SUMMIT, MISSOURI

SCHLAGEL & ASSOCIATES, P.A.
Engineers-Planners-Surveyors-Landscape Architects
14920 West 10th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Missouri State Certificates of Authority
#E2002003600-F #LAC200100237 #LS200200859-F

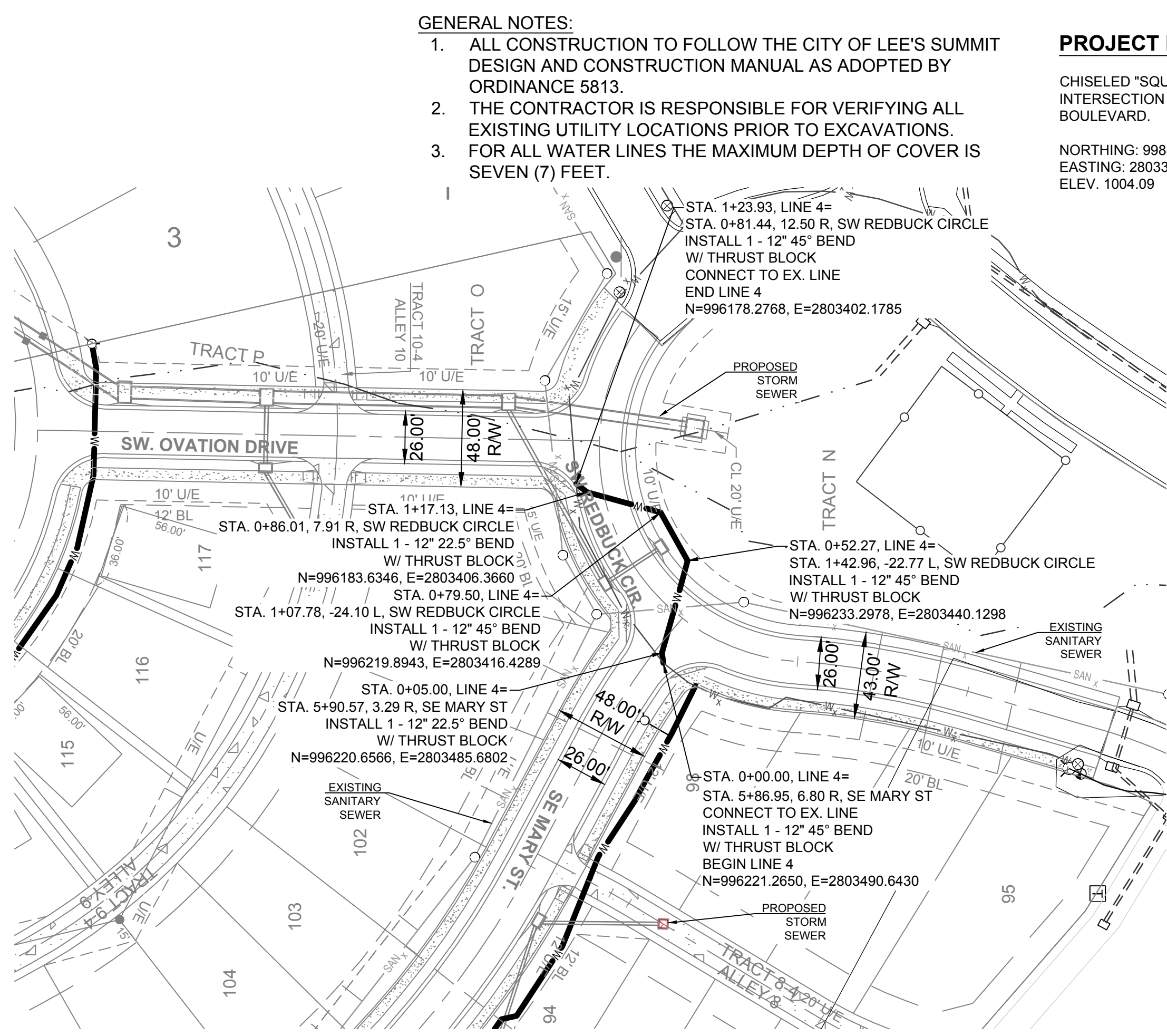
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6-10-19	10	

DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	4-22-19
PROJ. NUMBER:	19-002

LINES 1 AND 3
PLAN AND
PROFILE

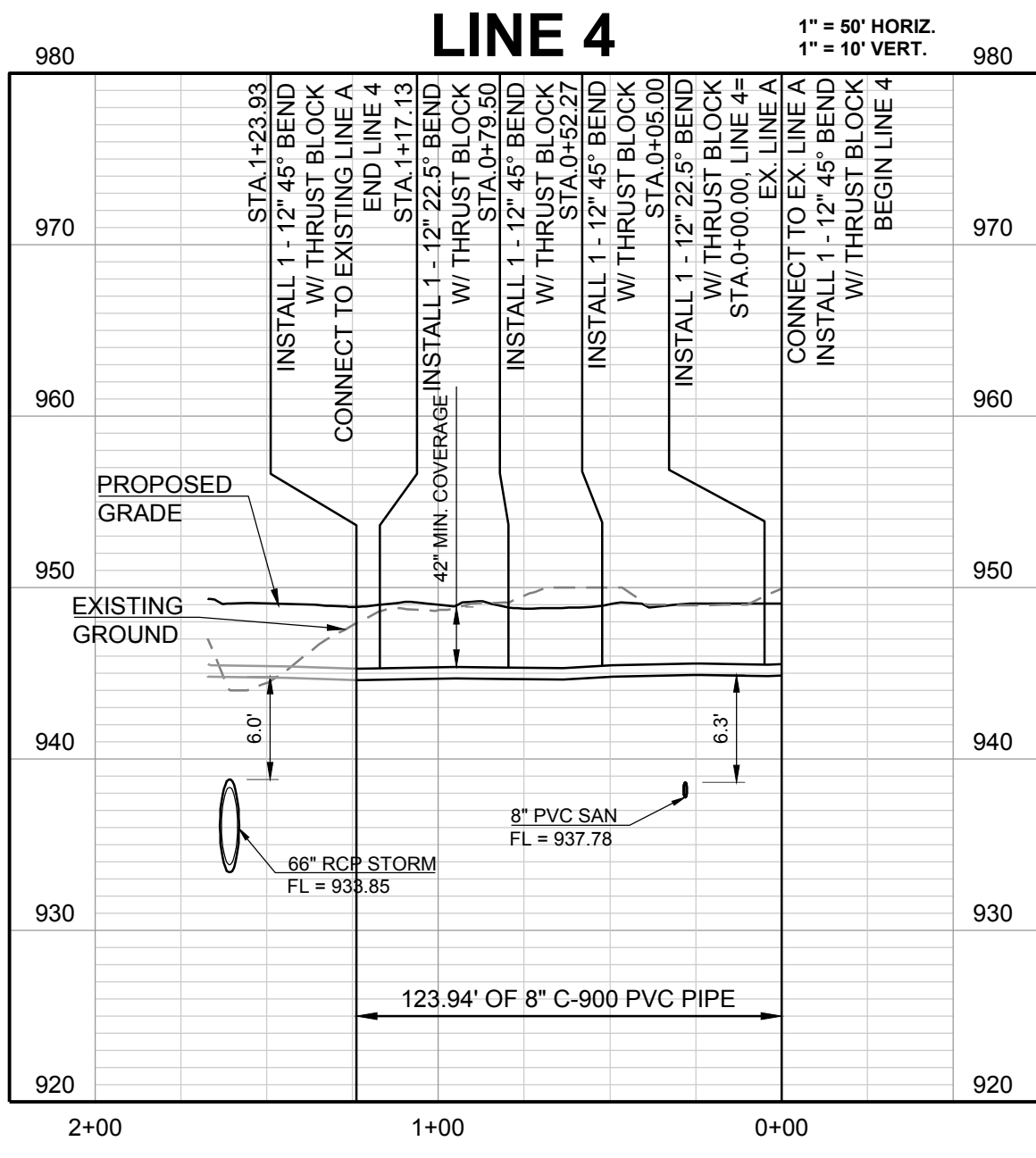
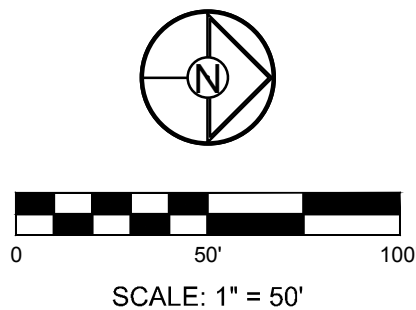
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OF 5



1. ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
3. FOR ALL WATER LINES THE MAXIMUM DEPTH OF COVER IS SEVEN (7) FEET.

NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09



REVISION		DATE	DESCRIPTION
DRAWN BY:	BAL	6-10-19	City Comments
CHECKED BY:	MAB		
DATE PREPARED:	4-22-19		
PROJ. NUMBER:	19-002		

LINES 2 & 4 PLAN
 AND PROFILE

SHEET

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