

WHISPERING WOODS

LOTS 1 THRU 33

A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
PUBLIC IMPROVEMENTS & PRIVATE SCHOOL ENTRANCE

| ESTIMATED QUANTITIES | | | |
|------------------------------------|-------|-------|----------|
| ITEM | UNITS | PLAN | AS-BUILT |
| Earthwork (22,552 CUT, 7,745 FILL) | CY | 12203 | |
| 6" Type 3 Asphaltic Concrete | SY | 7549 | |
| 6" Type 3 Asphaltic Concrete | SY | 7549 | |
| CG-2 Curb | LF | 4466 | |
| CG-1 Curb | LF | 235 | |
| Curb Inlet (6" X 5.5") | EA | 2 | |
| Curb Inlet (5" X 5.5") | EA | 1 | |
| Curb Inlet (3" X 5.5") | EA | 1 | |
| Curb Inlet (6" X 3") | EA | 1 | |
| Curb Inlet (3" X 2") | EA | 1 | |
| Junction Box (5" X 5") | EA | 3 | |
| Junction Box (5" X 6") | EA | 1 | |
| Field Inlet (4" X 4") | EA | 2 | |
| Riser Box (5" X 5") | EA | 1 | |
| 18" RCP | LF | 258 | |
| 24" RCP | LF | 156 | |
| 42" RCP | LF | 36 | |
| 18" HDPE | LF | 128 | |
| 24" HDPE | LF | 432 | |
| 36" HDPE | LF | 58 | |
| 48" HDPE | LF | 444 | |
| 42" HDPE | LF | 89 | |
| 48" HDPE | LF | 393 | |
| SPECIAL END SECTION | EA | 1 | |
| 18" FES | EA | 1 | |
| 30" FES | EA | 1 | |
| 42" FES | EA | 1 | |
| 48" FES | EA | 1 | |
| 8' X 6' Box Culvert | LF | 86 | |
| Detention Outlet Structure | EA | 1 | |
| ADA Curb Ramps | EA | 1 | |
| Soil Protection | EA | 30 | |
| Soil Filter | LF | 1 | |
| Erosion Control Mat | SY | 9271 | |
| Temporary Construction Entrance | EA | 2 | |
| Rip-Rap | SY | 420 | |
| Temporary Cul-de-sac | EA | 1 | |
| R1-1 Stop Signs | EA | 5 | |
| Street Name Signs | EA | 5 | |
| Concrete M/H Collar/Adjustment | EA | 2 | |
| Foresplay Wall | EA | 1 | |

Record Drawing

RECORD DRAWING

NOVEMBER 2022

PER CONTRACTOR PROVIDED INFORMATION THIS RECORD DEPICTS THE WORK CONSTRUCTED AS IN GENERAL CONFORMANCE WITH REGARDS TO SIZE, HORIZONTAL AND VERTICAL LOCATION, AND GRADE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS OR THEIR REVISION. THE WORK WAS DONE IN ACCORDANCE WITH THESE RECORDS AND THE CURRENT VERSION OF THE STANDARDS AND SPECIFICATIONS.

NOT AS-BUILT

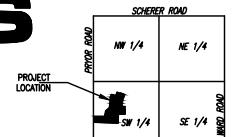
NOVEMBER 2022

UTILITY CONTACTS

| | |
|------------------------------|----------------|
| SOUTHWESTERN BELL TELEPHONE | (816) 871-9900 |
| MISSOURI ONE-CALL SYSTEM | (800) DIG-2111 |
| KPL GAS SERVICE COMPANY | (816) 221-2200 |
| KANSAS CITY POWER & LIGHT | (816) 471-0060 |
| PUBLIC WORKS | (816) 969-1800 |
| AMERICAN CABLEVISION | (816) 231-1444 |
| WATER POLLUTION CONTROL DEPT | (816) 513-0303 |
| CITY PLANNING & DEVELOPMENT | (816) 969-1600 |
| FIRE DEPARTMENT | (816) 969-1300 |



LOCATION MAP



VICINITY MAP
N.T.S.

LEGAL DESCRIPTION

WHISPERING WOODS LOTS 1 THRU 33, TRACTS A, B, C & D
PART OF THE SW 1/4 SECTION 24, T 47 N, R 32 W OF THE 5TH P.M.
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

PROJECT BENCH MARK

ELEV. 1006.89 (NAVD 1988 DATUM)

MISSOURI DEPARTMENT OF NATURAL RESOURCES GRS ALUMINUM
DISK STAMPED "JA-47" LOCATED NEAR THE INTERSECTION OF HWY
150 WITH REGGATA DRIVE AND HWY 291

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DEVELOPER:

WHISPERING WOODS LAND, LLC
803 P.C.A. ROAD
WARRENSBURG, MO. 64093

WARRENBURG, MO 64093
AGENT: RICK FRYE
PHONE: 816-564-2230
FAX: 860-429-1801

APPROVE

CITY ENGINEER

DATE

卷之三

LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS



PROJECT NOTES

- Grading Contractor shall be responsible for the control of erosion and siltation during all phases of construction.
- Prior to Ordering Precast Structures: Shop drawings shall be submitted to the design engineer for approval. Upon approval these shall be submitted to the City of Lee's Summit for review.
- Manhole top elevations designated as "Field Verify" (F.V.) are located outside the street right-of-way or in areas of undetermined grading. Contractors ordering precast manholes shall be responsible for adjustment required in the field at no additional cost to the owner. The contractor shall field verify the top elevations prior to ordering precast manholes.
- All water lines, sanitary sewer lines, and storm water drainage crossings shall be in place or a casing pipe provided for future installation prior to base and surface asphalt courses.
- Sidewalks are shown for informational purposes only unless otherwise noted. However, the contractor shall be responsible for handicap ramp construction in curbs.

GENERAL NOTES

- Refer to the current version of the City of Lee's Summit Design and Construction (D&C) Manual for construction of these plans.
- All workmanship and materials shall be subject to the inspection and approval of the Engineering Department of the City of Lee's Summit, Missouri.
- Lineal foot measurements shown on these plans are horizontal measurements, not slope measurements. All payments shall be made on horizontal measurements.
- No Geological Investigation was performed on this project.
- The Utility locations shown on these plans are taken from Utility Company records and are approximate only. They do not constitute actual field locations. The Contractor shall verify the location and depth of all utilities prior to construction.
- Clearing and Grubbing operations and disposal of all debris therefrom shall be performed by the contractor in strict accordance with all state and local codes and ordinances.
- All waste material shall be disposed of at a location to be selected by the owner or his authorized representative, such location to be on the site.
- The Contractor shall control the erosion and siltation during all phases of construction, he shall keep the streets clean of mud and debris and follow the erosion control plan prepared by the design engineer.
- All existing manholes, catch basins, utility valves and meter pits to be adjusted or rebuilt to grade as required.
- Subgrade soil for all concrete structures, regardless of the type or location, shall be firm, dense and thoroughly compacted and consolidated; shall be free from mud and mud; and shall be sufficiently stable to remain firm and intact under the feet of the workman or machinery engaged in subgrade, laying reinforcing steel, and depositing concrete thereon. In all cases where subsoil is mucky or works into mud or mud during such operation, a seal course of either concrete or rock shall be placed below subgrade to provide a firm base for working and for placing the floor slab.
- A minimum horizontal distance of ten (10') shall be maintained between parallel water and sanitary sewer lines. At any point where sanitary sewer lines cross water main, the sanitary sewer shall be constructed of cast iron pipe or pipe encased in concrete for a distance of ten feet (10') in each direction from the crossing unless the water is a minimum of eighteen inches (18') above the top of the sanitary sewer line.
- Contractor shall provide testing and inspection per SECTION 2200 – PAVING MAINS CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
- Development plans are approved initially for one (1) year, after which they automatically become void and must be updated and approved by the City Engineer before any construction will be permitted.
- All sanitary sewer stubs shall be surveyed and staked on site before the construction of sanitary service stubs.

RECORD DRAWING

NOVEMBER 2022

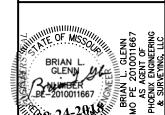
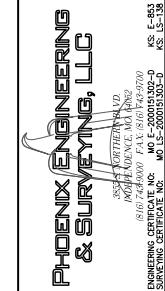
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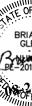
NOVEMBER 2022

Record Drawing

- LEES SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
GENERAL NOTES

| | |
|---|--|
| | |
|  BRIAN L. GLENN STATE ENGINEER DEPARTMENT OF NATURAL RESOURCES NO. 201001167 PHOENIX ENGINEERING & SURVEYING, LLC NO. 201001167 EXP. 04-2014 | |
|  PHOENIX ENGINEERING & SURVEYING, LLC NO. 201001167 EXP. 04-2014 NO. 200015102-D KS-E-853 KS-L-139 NO. 200015103-D KS-E-853 KS-L-139 EXP. 04-2014 SURVEYING CERTIFICATE NO. ENGINEERING CERTIFICATE NO. SIGN TAKEN BY: [Signature] DATE: 11/14/2022 NFIP NUMBER: 29095005316 FIRM NUMBER: 200015102-D NFIP NUMBER: 29095005316 FIRM NUMBER: 200015103-D NFIP NUMBER: 29095005316 | |

REVISION



BRIAN L. GLENN
RE-201001667
MO PE 201001667
PHOENIX ENGINEERING & SURVEYING, LLC

KS E-853

MO 200015102-D

KS LS-139

MO LS-200015103-D

ENGINEERING CERTIFICATE NO:

SIG: TADAROL

REV: 10/20/2022

DATE: 10/20/2022

PAGE: 04078

OF: 40

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RECORD DRAWING

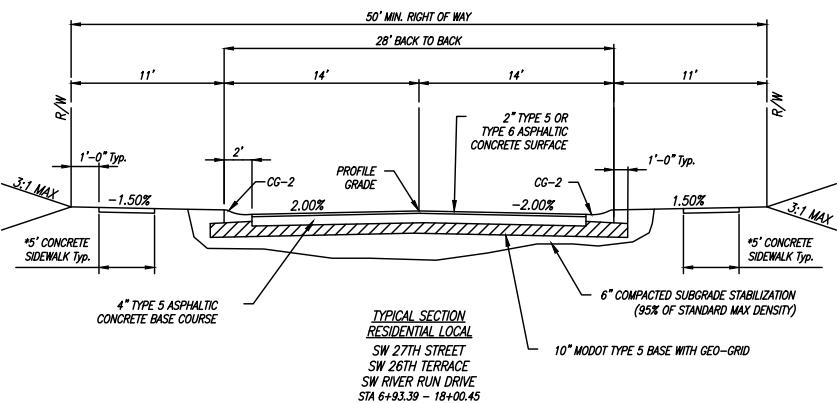
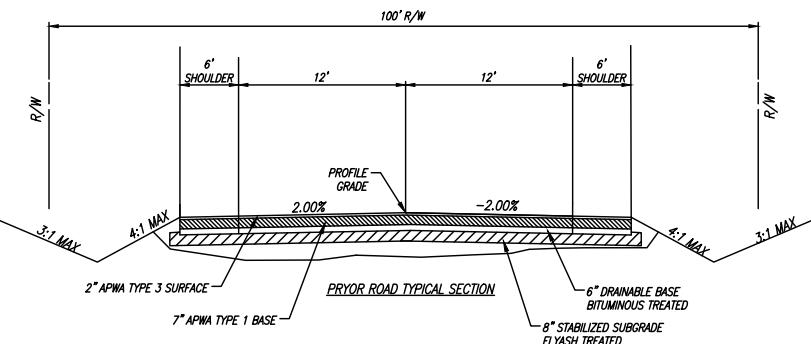
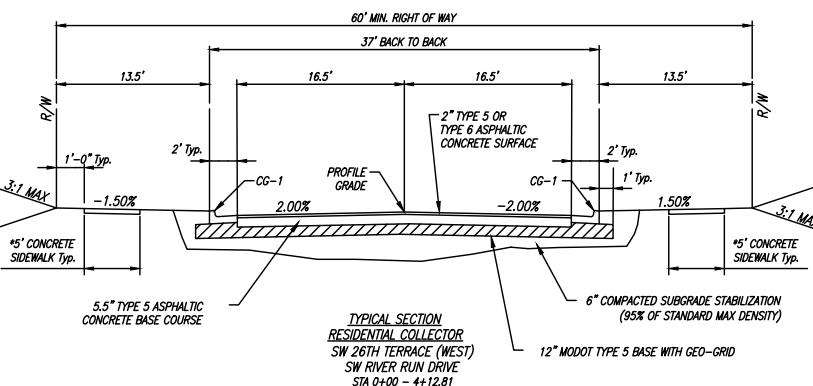
NOVEMBER 2022

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NOVEMBER 2022



NOTE:
TRANSITION FROM RESIDENTIAL COLLECTOR TO LOCAL STREET
SECTION BEGINS AT STA 4+12.81 AND ENDS AT STA 6+93.39.

TRANSITION FROM CG-1 TO CG-2 SHALL OCCUR AT STA 6+93.39.

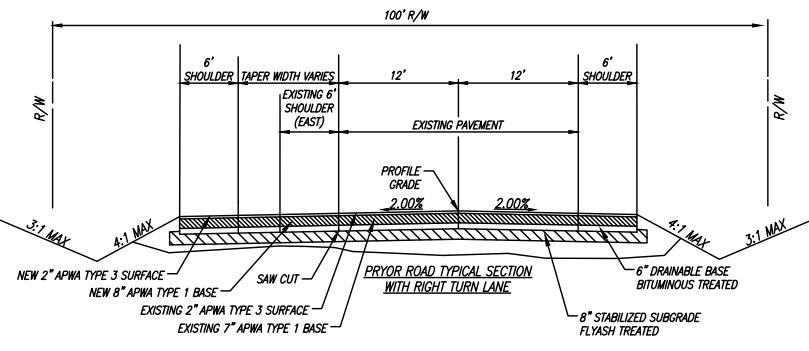
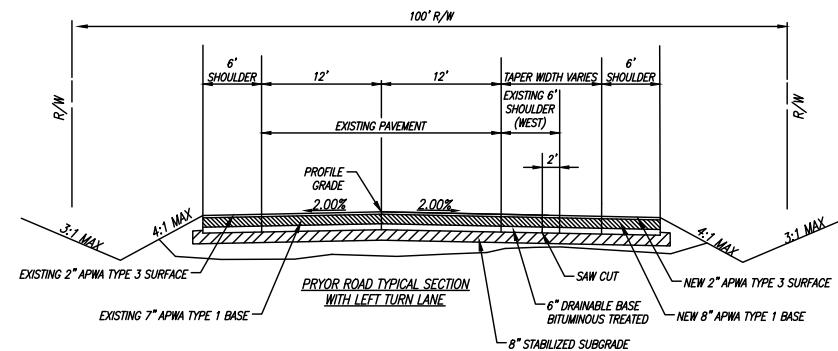
NOTE:
*IN SOME INSTANCES SHOWN IN PLAN VIEW, SIDEWALK MAY NOT BE
NECESSARY ON BOTH SIDES OF STREET

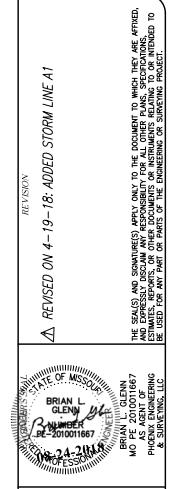
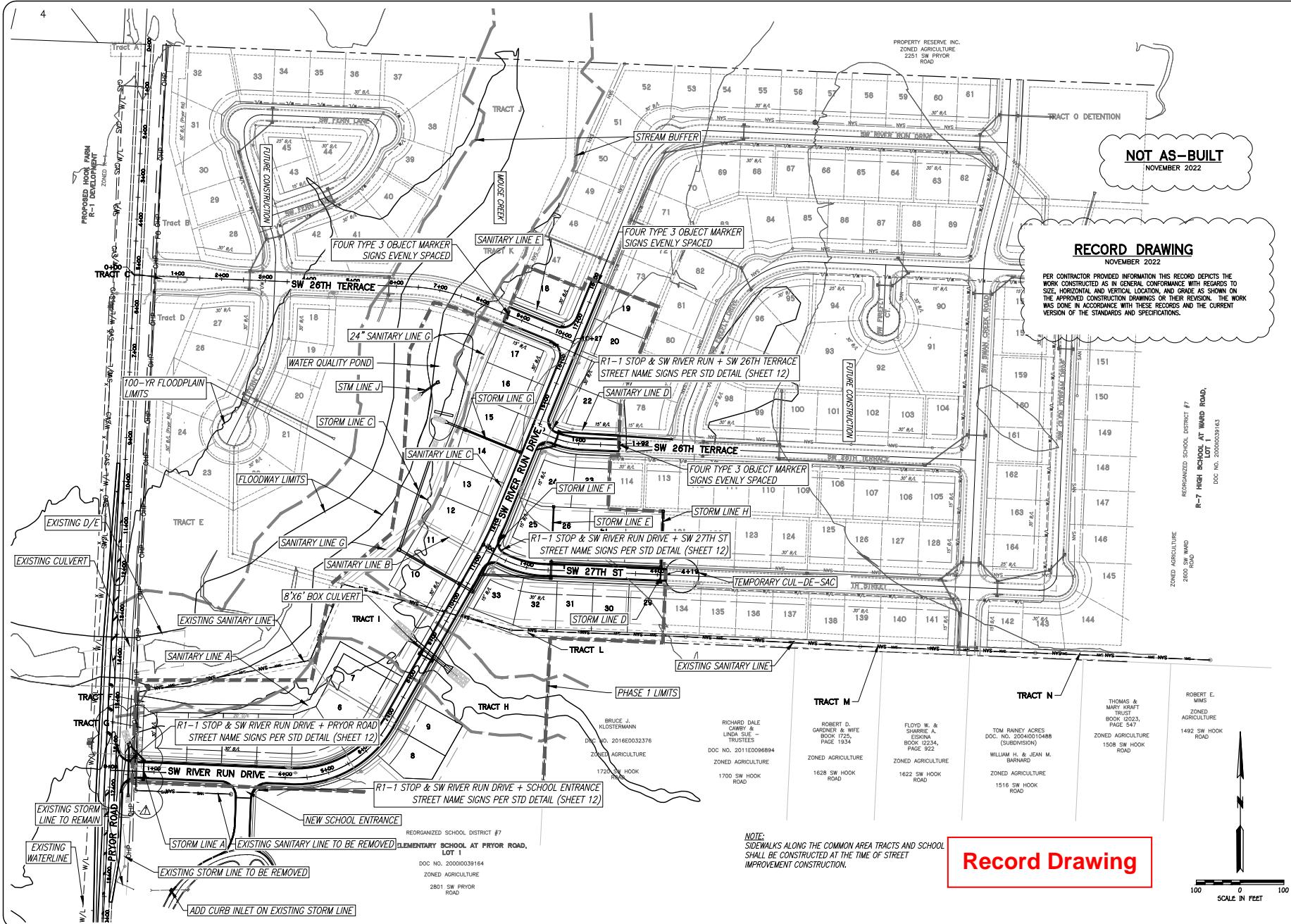
NOTE:
CONTRACTOR SHALL SUBMIT TEST RESULTS TO THE CITY PRIOR TO
INSTALLING CURB AND PAVEMENT. SUBGRADE MATERIAL NOT MEETING
THESE LIMITS SHALL BE STABILIZED AS PER THE RECOMMENDATIONS
OF A QUALIFIED GEOTECHNICAL LABORATORY AND APPROVED BY THE
CITY. TESTING AND STABILIZATION WILL BE PAID FOR BY THE
CONTRACTOR.

NOTE:
PROPOSED PRYOR ROAD IMPROVEMENTS PAVEMENT SHALL MATCH THE
EXISTING PAVEMENT.

TEMPORARY PAVEMENT SECTION

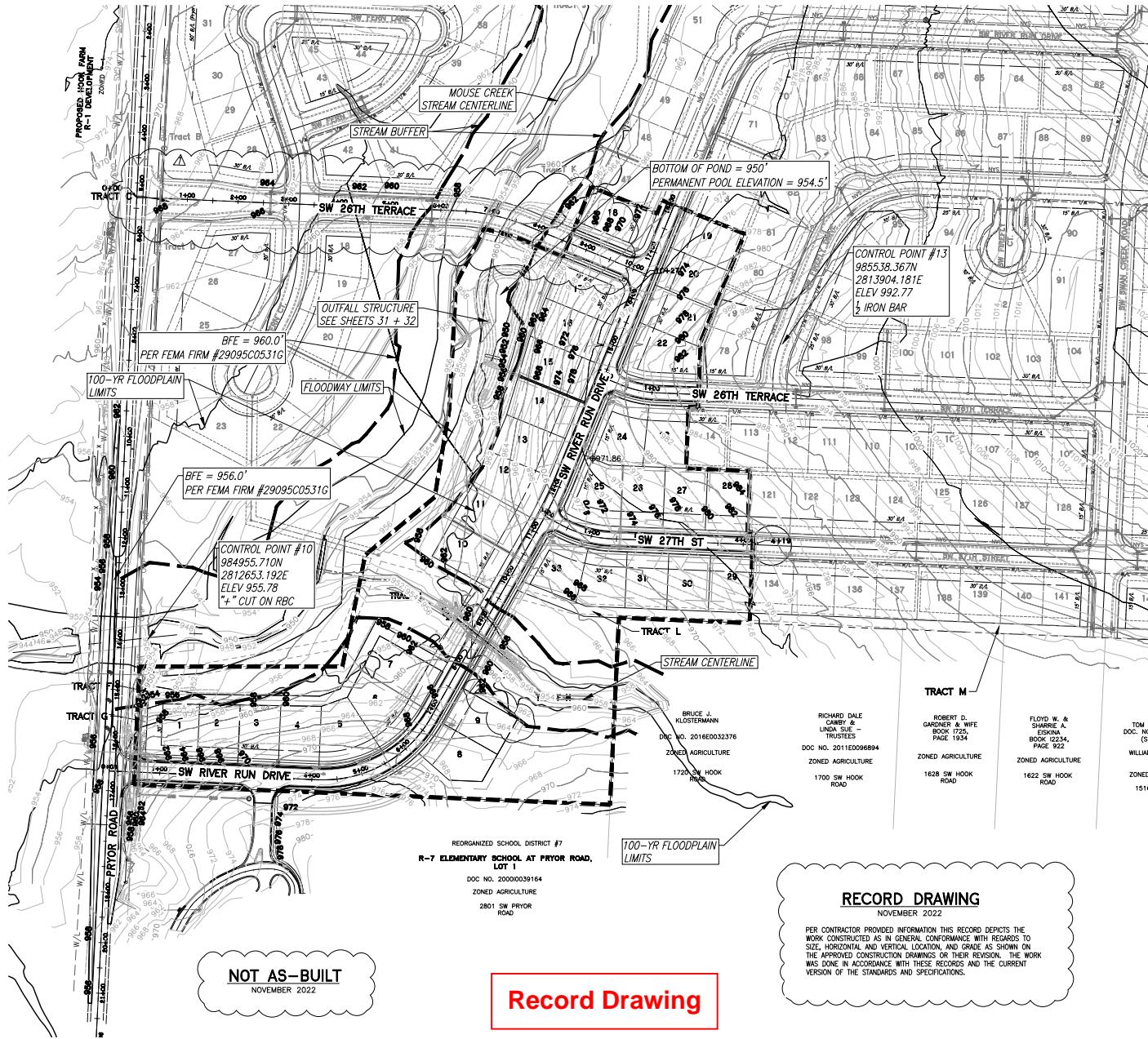
TEMPORARY CUL-DE-SAC PAVEMENT SECTION SHALL
BE 6" ASPHALT BASE COURSE WITH A 2" ASPHALT
SURFACE OVERLAY WITH A RADIUS OF 35'





PHOENIX ENGINEERING & SURVEYING, LLC

RECORDED IN THE JAMES C. SISK JUDICIAL CENTER
REGISTRATION NO. 172
SHEET 7 OF 10
SHEET 7 OF 10
MO 200015102-D KS E-853
MO 200015102-D KS LS-139
SURVEYING CERTIFICATE NO.
ENGINEERING CERTIFICATE NO.

**RECORD DRAWING**

NOVEMBER 2022

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100 0 SCALE FEET

5 OF 40

WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
GRADING PLAN

PHOENIX ENGINEERING
& SURVEYING, LLC
100 N. 10TH STREET, SUITE 102
SUITE 102, KANSAS CITY, KS 64106
PHONE: (816) 454-0700
FAX: (816) 454-0700
E-MAIL: info@phoenixengineeringllc.com
WEBSITE: www.phoenixengineeringllc.com

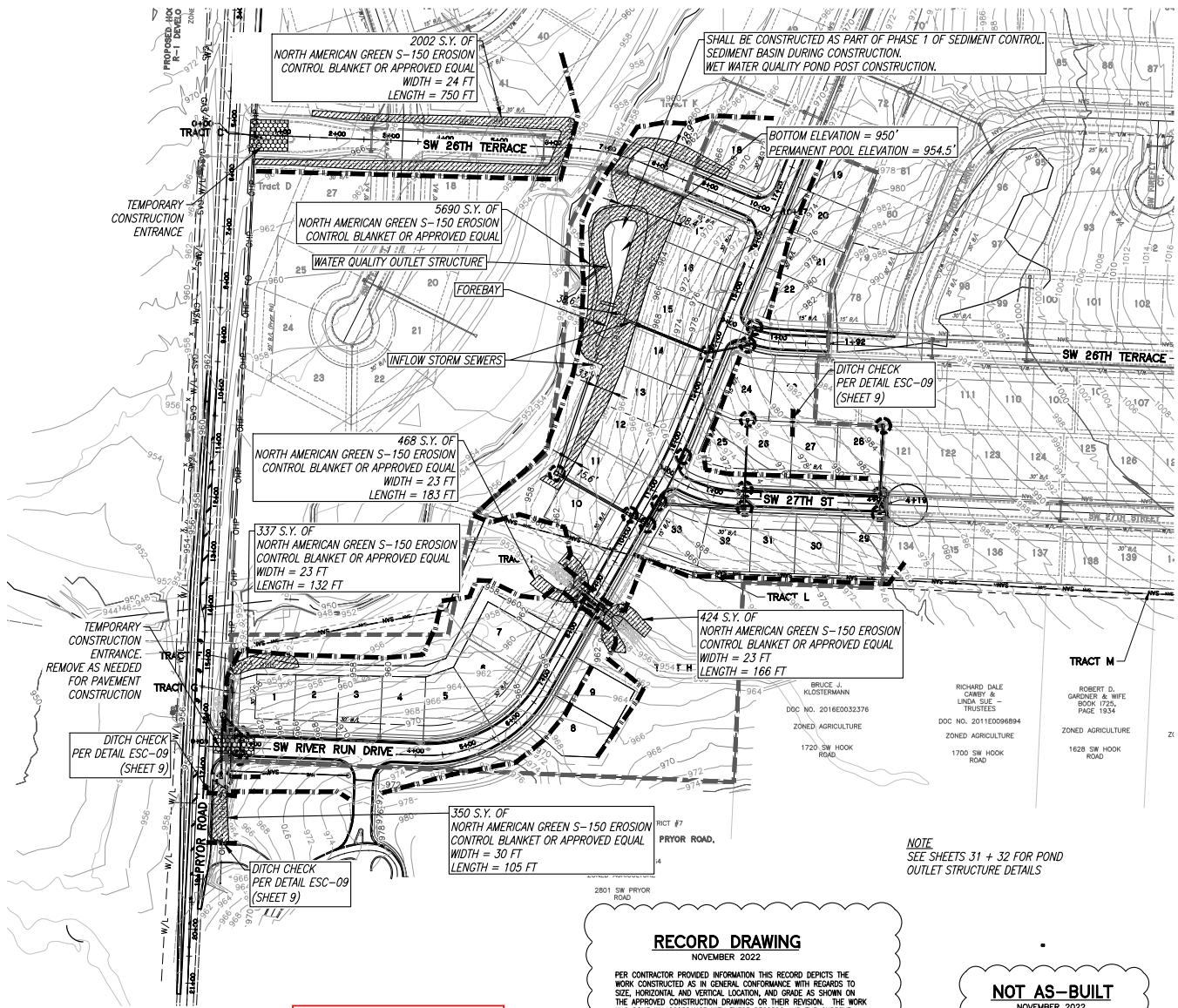
REVISIONS
REVISED ON 4-19-18: ADDED GRADING CONTOUR
REVISED ON 06-11-18: GRADE CHANGES NEAR
LOT 9



THE SEALS AND SIGNATURES APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE APPENDED.
THE SEALS AND SIGNATURES DO NOT APPLY TO ANY OTHER DOCUMENTS OR INFORMATION CONTAINED
HEREIN. THE SEALS AND SIGNATURES DO NOT APPLY TO ANY PARTS OF THE ENGINEERING OR SURVEYING PROJECT.

DESIGNED BY
BLG
DRAWN BY
BLG
SCALE
Noted
DATE
09-01-2017
JULIA
04078
SHEET

Record Drawing



LEGEND



CONSTRUCTION
ENTRANCE
USE 3" x 6" BACK



INLET PROTECTION



EROSION CONTROL BLANK
(SEE DETAIL ESC-02)

UPON COMPLETION CONTRACTOR SHALL
SEED AND MULCH DISTURBED AREAS
AND REMOVE ALL TRASH AND DEBRIS.

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AND EXPRESSLY ASSUME RESPONSIBILITY FOR ALL OTHER PAGE SPECIFICATIONS,
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CONTRACT OF ANY KIND. IT IS TO BE USED AS A GUIDE OR PLAN FOR THE ENGINEERING OR SURVEYING PROJECT.

**PHOENIX ENGINEERING
& SURVEYING, LLC**

LEE'S
STREET

100 0 10
SCALE IN FEET

Digitized by srujanika@gmail.com

ON & SEDIMENT CONTROL MEASURES IN PLACE SHALL BE CHECKED
MAINTAINED WEEKLY OR WITHIN 24 HOURS FOLLOWING A RAIN
DURING GREATER THAN 0.5 INCHES IN 24 HOURS AS RECORDED AT
REPORT.

NOTE
EROSION CONTROL FEATURES NED TO BE INSTALLED PRIOR TO LAND DISTURBANCE AND MAINTAINED THROUGHOUT THE DURATION OF OPERATIONS. WE NEED TO CONTAIN THE SILT TO THIS SITE AND KEEP THE ADJACENT STREETS FREE OF MUD AND DEBRIS AT ALL TIMES (WHICH MAY INCLUDE ADDITIONAL EROSION CONTROL FEATURES NOT INCLUDED IN THIS PLAN IF IT IS DETERMINED THAT THE CURRENT PLAN IS INADEQUATE.

NOTE
SEE SHEETS 31 + 32 FOR POND
OUTLET STRUCTURE DETAILS

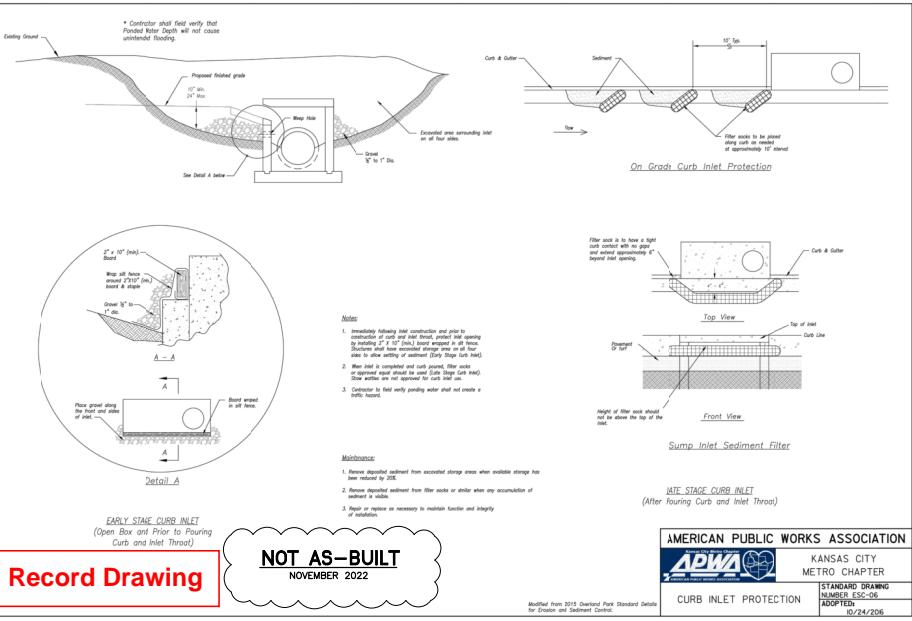
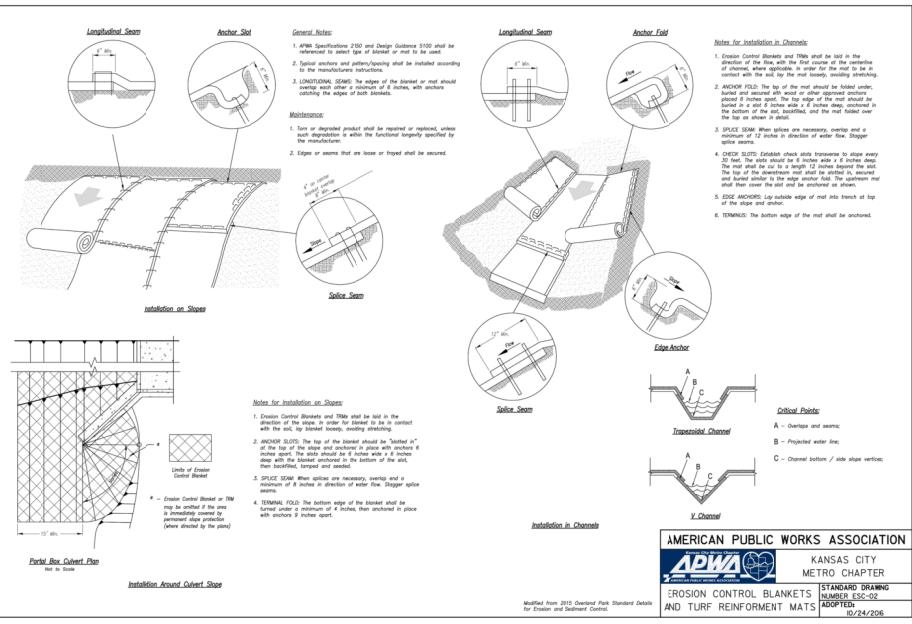
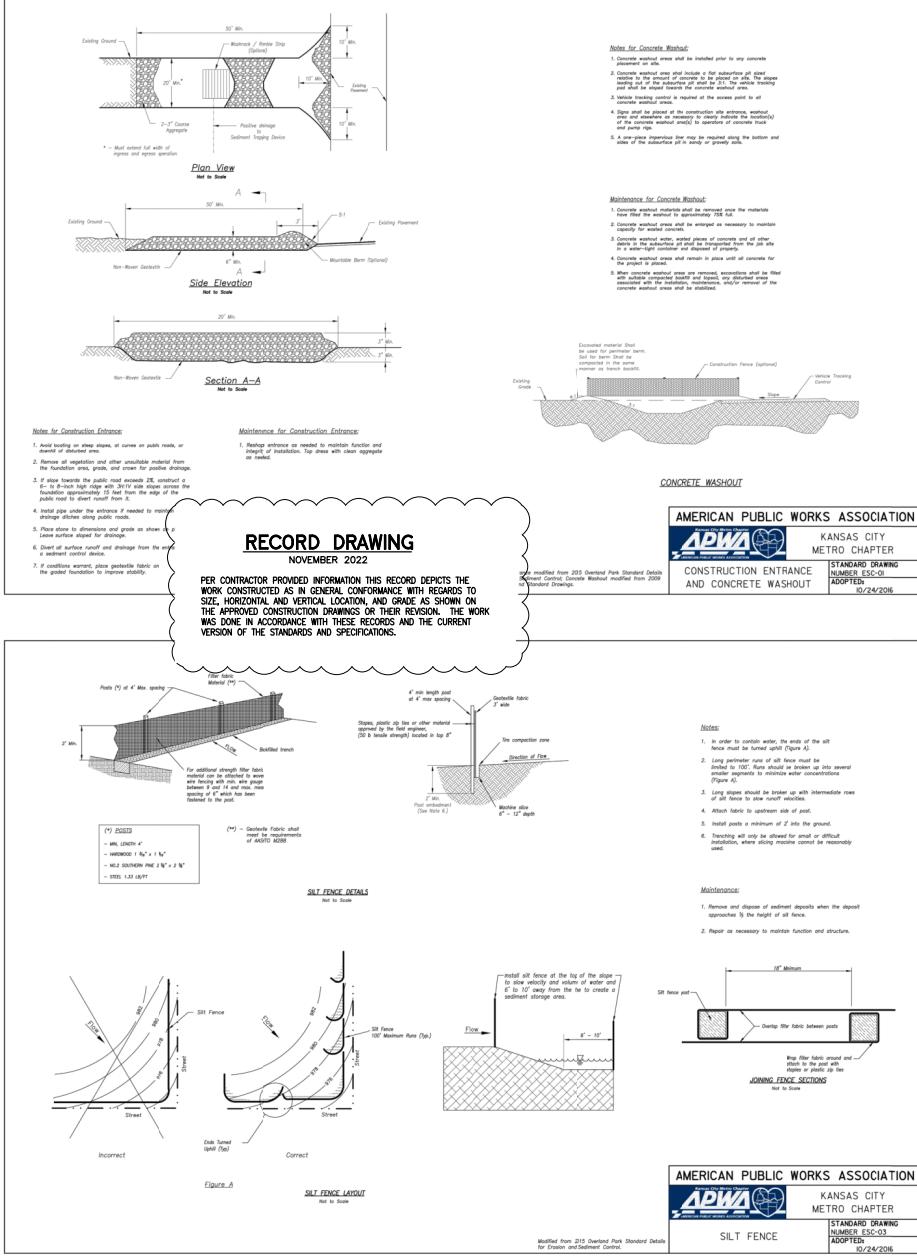
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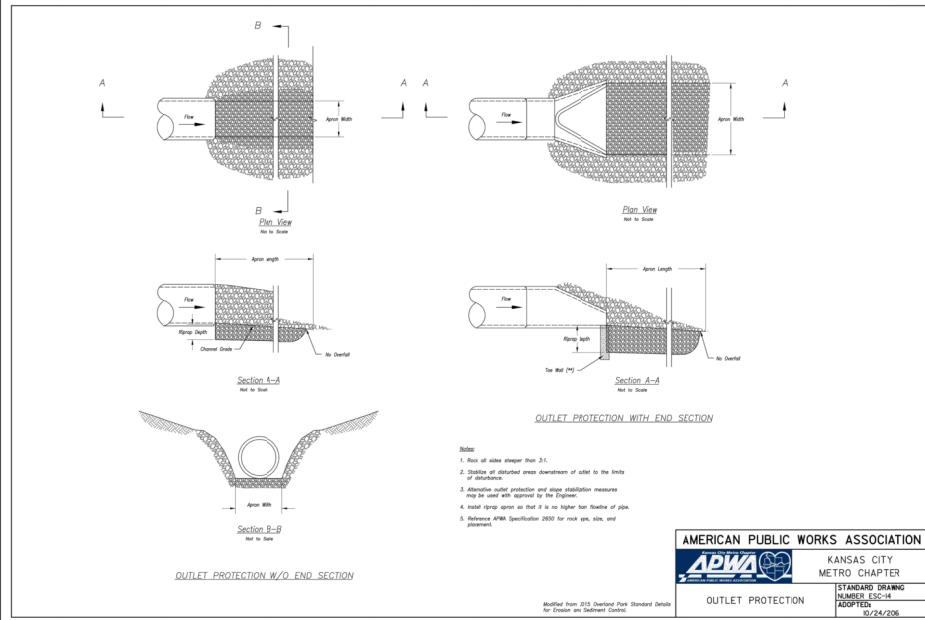
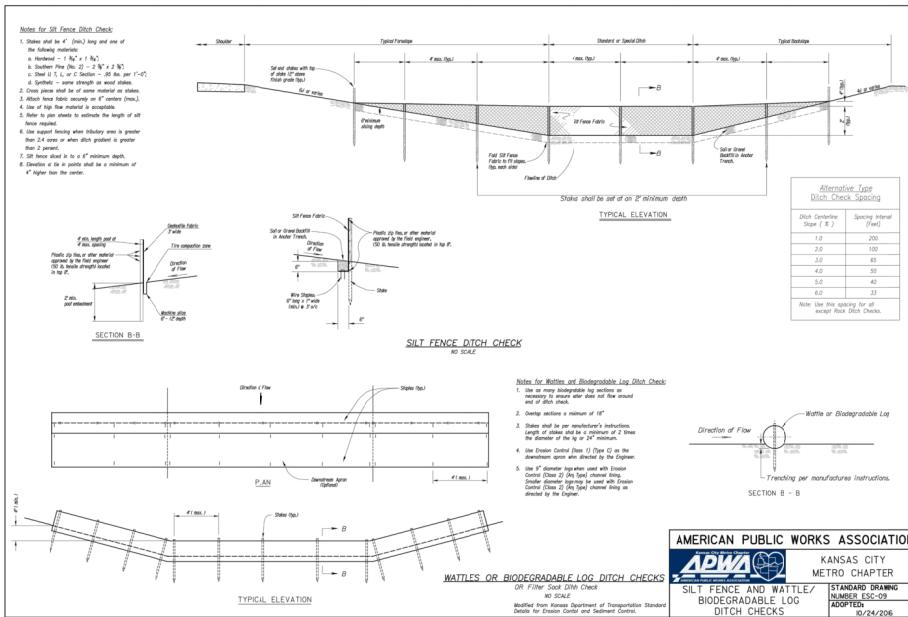
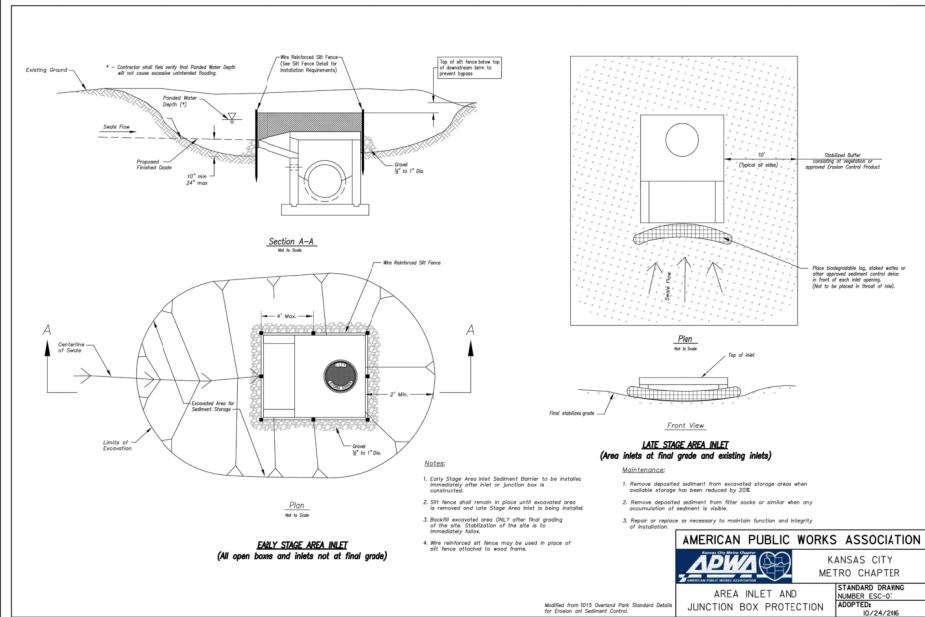
RECORD DRAWING

NOVEMBER 2013

NOVEMBER 2022

H:\projects\2004\0407842 - Whispering Woods Phase 1\dwg\2022 Asbuilt\Asbuilt - Street & Storm Plans - 11-09-19.dwg





RECORD DRAWING
NOVEMBER 2022

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NOVEMBER 2022

Record Drawing

REVISION

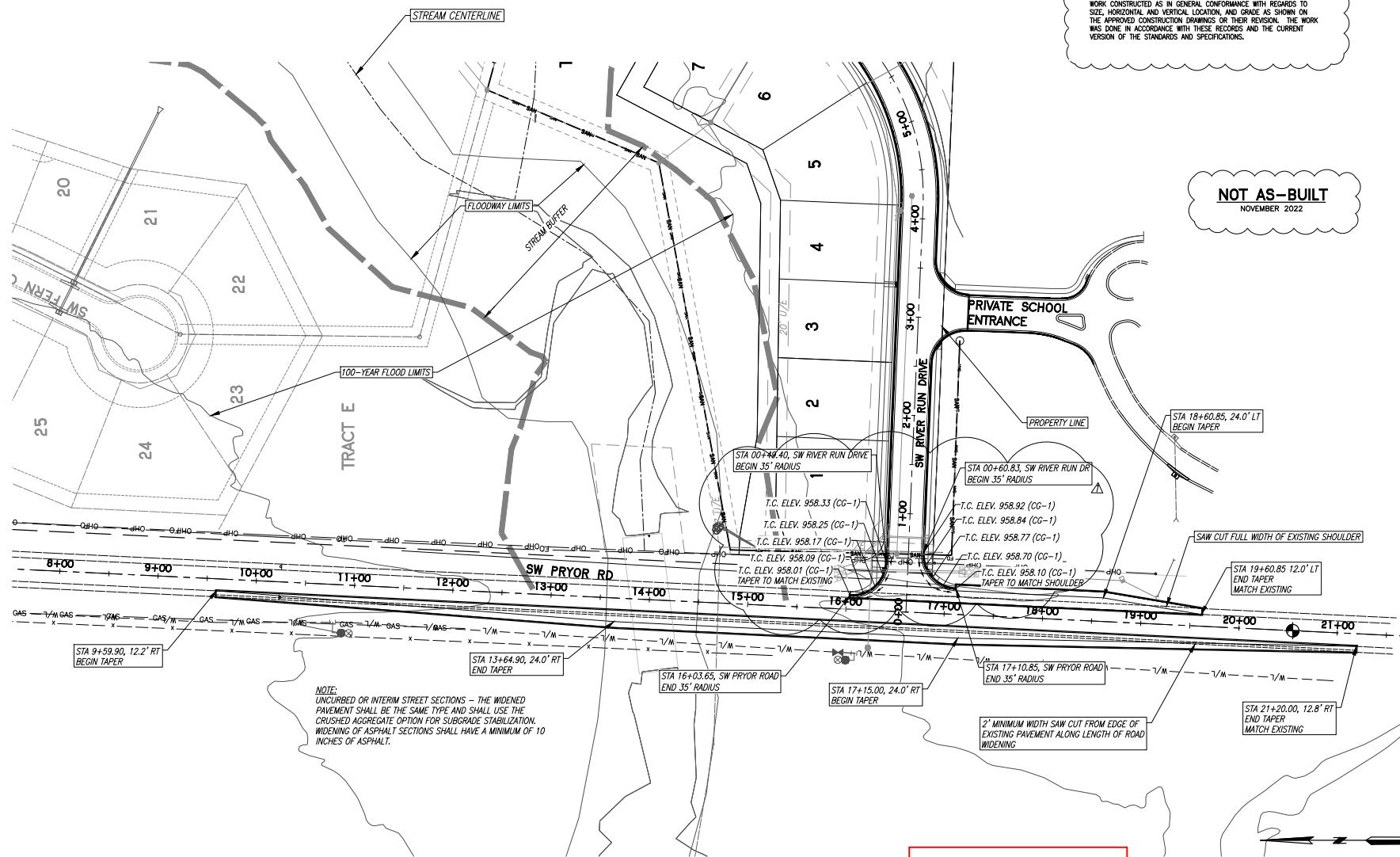
STATE OF MISSOURI
BRIAN GLENN
P.E. 201011667
PHOENIX ENGINEERING & SURVEYING, LLC

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PHOENIX ENGINEERING & SURVEYING, LLC
NO. 24-2014
P.O. BOX 1172
8017 FAIRFIELD AVENUE
KS 66205-1172
ENGINEERING CERTIFICATE NO.: 8017-54-0700
SURVEYING CERTIFICATE NO.: MO LS-200015302-D
MO LS-138

WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
ESC DETAILS

DESIGNED BY:
BLG
DRAWN BY:
BLG
SCALE:
Noted
DATE:
09-01-2017
JOB NO.:
04078
SHEET:
9 OF 40



Record Drawing

NOTE:
UNCURBED OR INTERIM STREET SECTIONS - THE WIDENED PAVEMENT SHALL BE THE SAME TYPE AND SHALL USE THE CRUSHED AGGREGATE OPTION FOR SUBGRADE STABILIZATION. WIDENING OF ASPHALT SECTIONS SHALL HAVE A MINIMUM OF 10 INCHES OF ASPHALT.

RECORD DRAWING
NOVEMBER 2022

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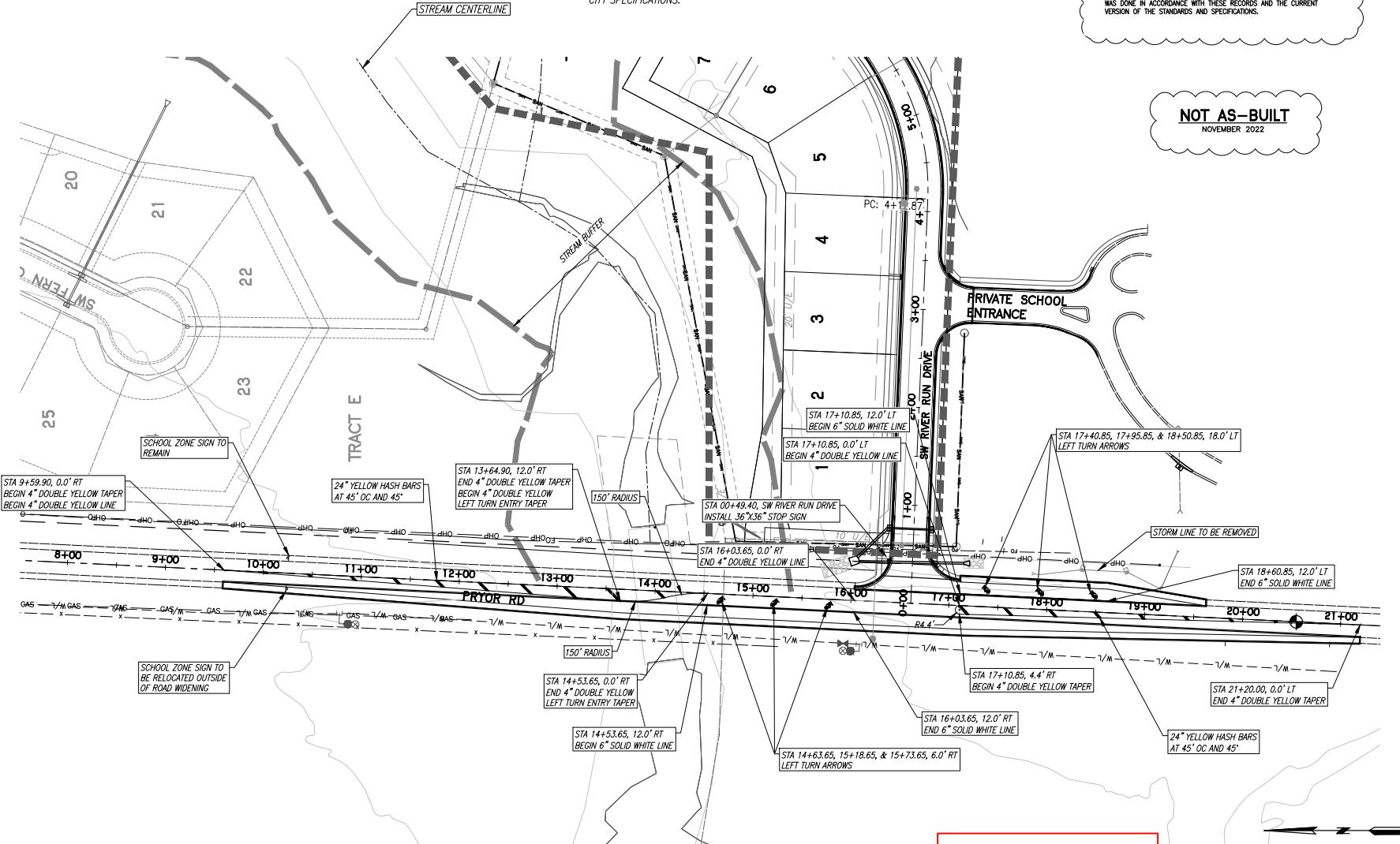


**REVISED ON 06-07-2018: FIXED CURB TYPE LABEL
FROM CG-2 TO CG-1**

PHOENIX ENGINEERING

3 VOB LA VOIT

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| BLG |
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| SCALE |
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| Noted |
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| DATE |
| 09-01-2017 |
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| JOB NO. |
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| |
| SHEET |
| 10 |
| OF |
| 40 |

**RECORD DRAWING**

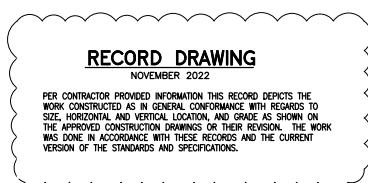
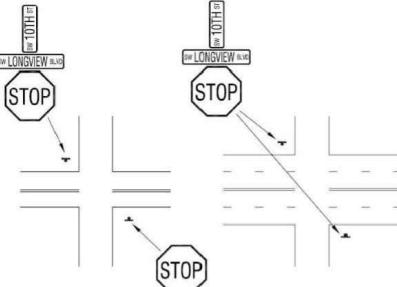
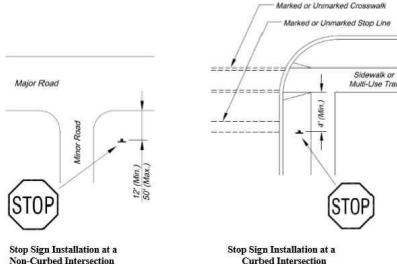
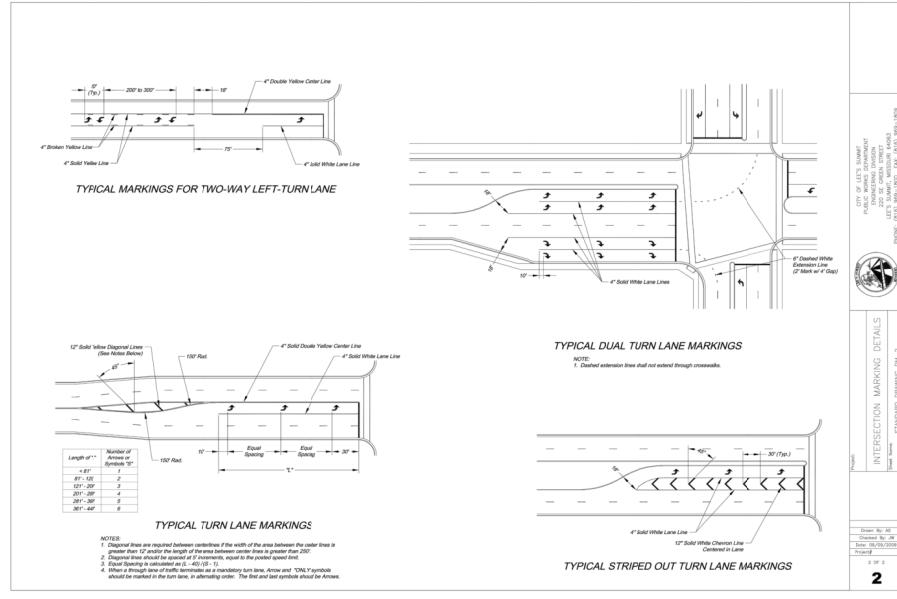
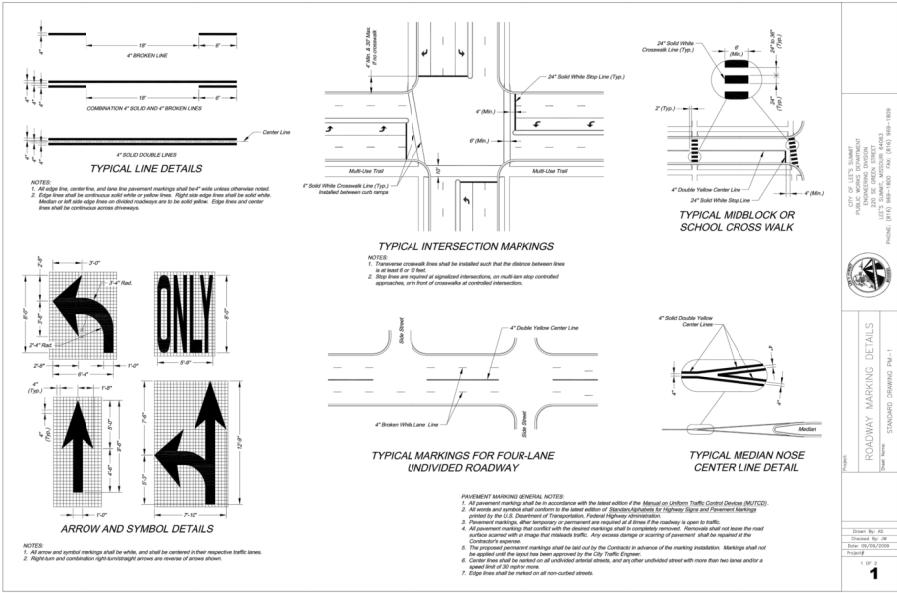
NOVEMBER 2022

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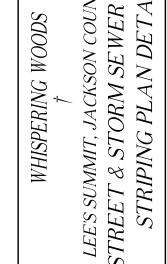
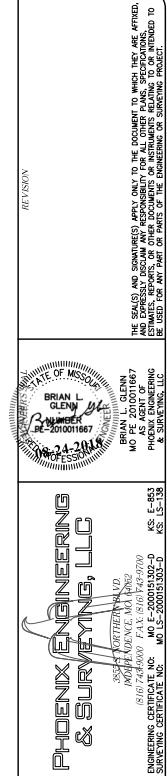
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|-----------------------------|--|
| REVISION | BRIAN L. GLENN RE-201001667 |
| PROFESSION | STATE OF MISSOURI BRIAN L. GLENN MO PE 201001667 PHOENIX ENGINEERING & SURVEYING, LLC |
| EXAMINER | REG'D PRACTICING ENGR. REG'D SURVEYOR REG'D LAND APPRAISER REG'D LAND APPRAISER KSC-E-853 MO 2000151020-D KS LS-138 MO LS-200015103-D |
| ENGINEERING CERTIFICATE NO. | REG'D PRACTICING ENGR. REG'D SURVEYOR REG'D LAND APPRAISER REG'D LAND APPRAISER |
| SURVEYING CERTIFICATE NO. | KSC-E-853 MO 2000151020-D KS LS-138 MO LS-200015103-D |

PHOENIX ENGINEERING & SURVEYING, LLC
1100 N. 100 E., SUITE 100
REG'D PRACTICING ENGR.
REG'D SURVEYOR
REG'D LAND APPRAISER
REG'D LAND APPRAISER
KSC-E-853
MO 2000151020-D
KS LS-138
MO LS-200015103-D

ENGINEERING CERTIFICATE NO.
SURVEYING CERTIFICATE NO.

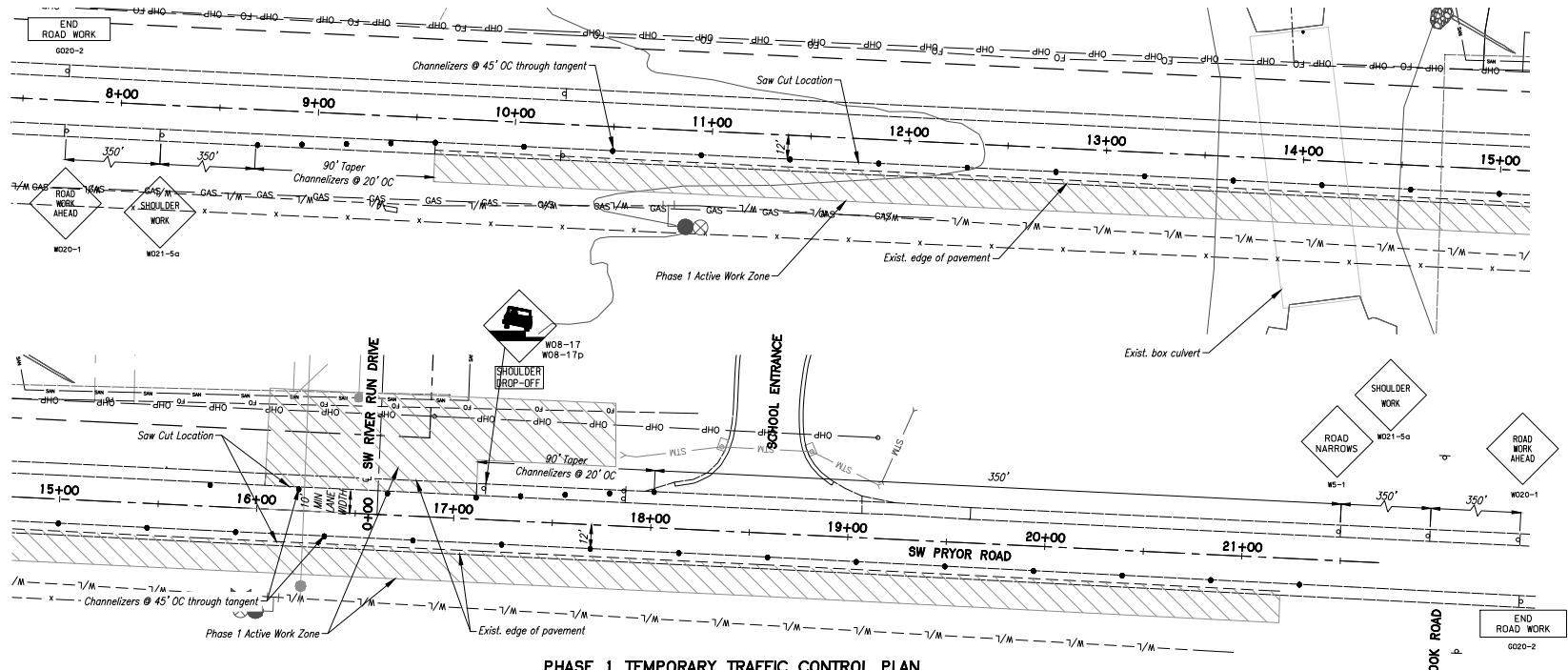


Record Drawing

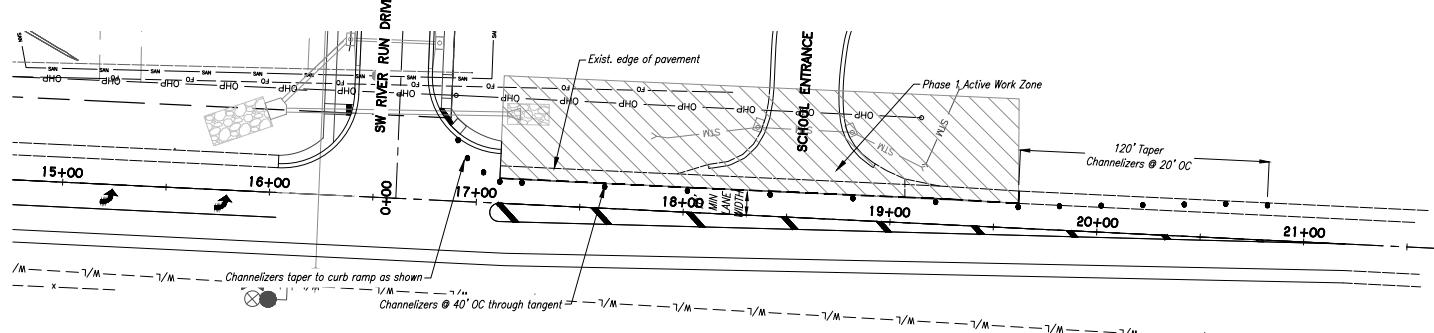


12 OF 40

\Projects\2004\040782 = Whispering Woods Phase 1\dwg\2022 Asphalt\04078 = Street & Storm Plans.dwg



PHASE 1 TEMPORARY TRAFFIC CONTROL PLAN



PHASE 2 TEMPORARY TRAFFIC CONTROL PLAN

NOTES:
PHASE 1 OF TEMPORARY TRAFFIC CONTROL SHALL INCLUDE
PAVEMENT CONSTRUCTION OF SW RIVER RUN DRIVE ENTRANCE
TO THE END OF CURB RETURN AND CONSTRUCTION OF THE
ROADSIDE DRAINAGE DITCH TO THE END OF THE EXISTING STORM
LINE UNDER THE SCHOOL ENTRANCE.

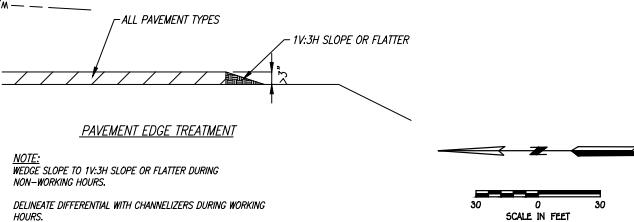
EXISTING SCHOOL ENTRANCE SHALL REMAIN OPEN AND FREE OF CONSTRUCTION ACTIVITIES, MATERIALS, AND EQUIPMENT DURING PHASE 1 OF SW PRYOR ROAD IMPROVEMENTS.

PHASE TWO SHALL COMMENCE ONLY ONCE THE PROPOSED SCHOOL ENTRANCE AND SW RIVER RUN DR ENTRANCE ARE OPERATIONAL AND CONSTRUCTION SCHEDULE APPROVED BY THE SCHOOL.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AND THE FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

Record Drawing

NOT AS-BUILT
NOVEMBER 2022



RECORD DRAWING

NOVEMBER 2022

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#

REVISED ON 06-07-2018: FIXED CURB TYPE LABEL
FROM CG-2 TO CG-1

The Missouri state seal is a circular emblem featuring a central shield with a plow, a sheaf of wheat, and a compass rose, surrounded by a border with the words "THE STATE OF MISSOURI".

TEMPORAL

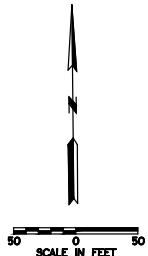
13 ^{SHEET}
OF 40

RECORD DRAWING
NOVEMBER 2022

NOVEMBER 2022

NOT AS-BUILT
NOVEMBER 2022

Record Drawing

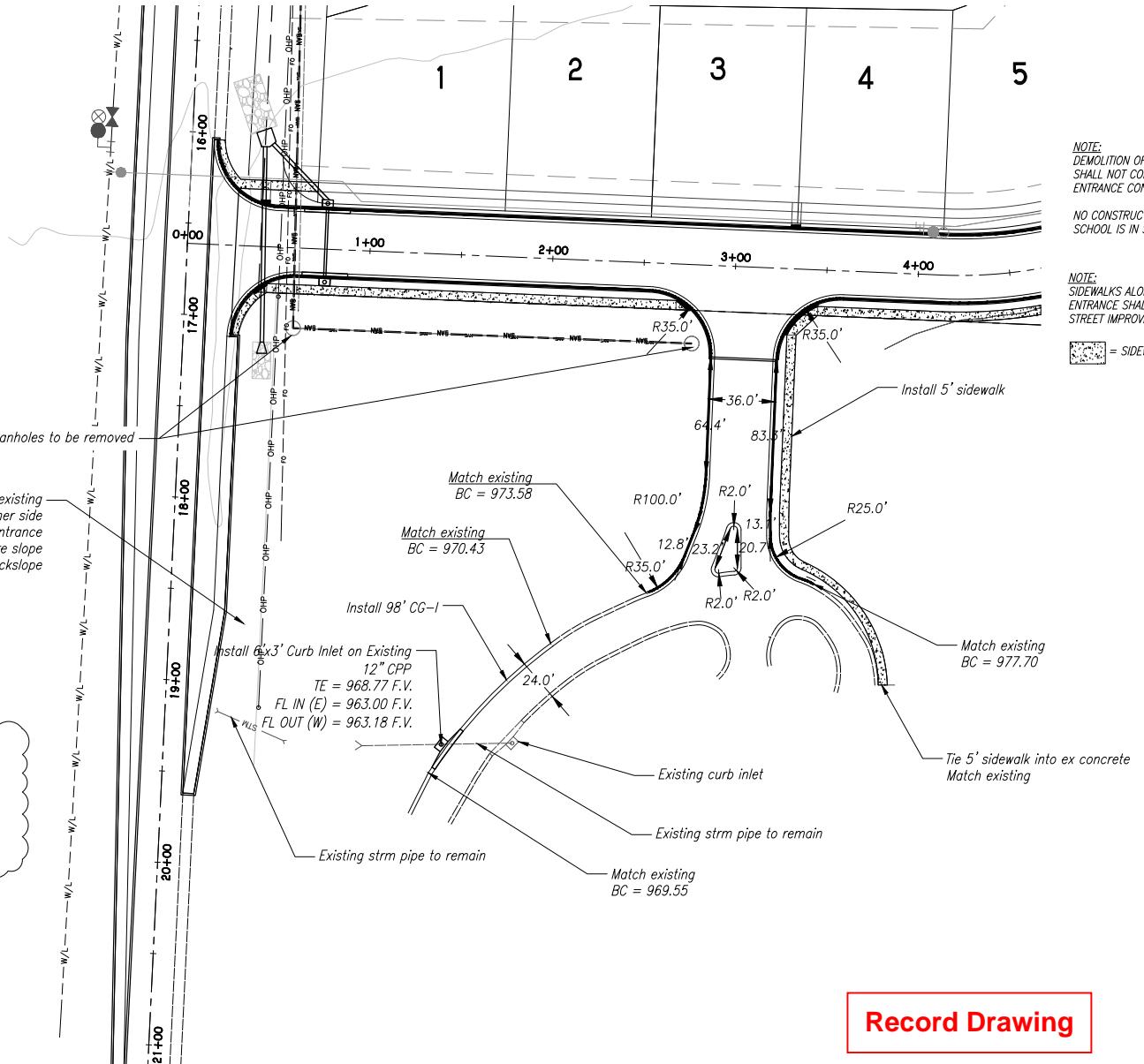


A horizontal scale bar with tick marks at 50, 0, and 50. Below it is the text "SCALE IN FEET".

RECORD DRAWING
NOVEMBER 2022

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NOT AS-BUILT
NOVEMBER 2022



Record Drawing

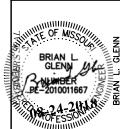


16 SHEET OF 40

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BLG
SCALE
Noted
DATE
09-01-2017
JOB NO.
####
SHEET

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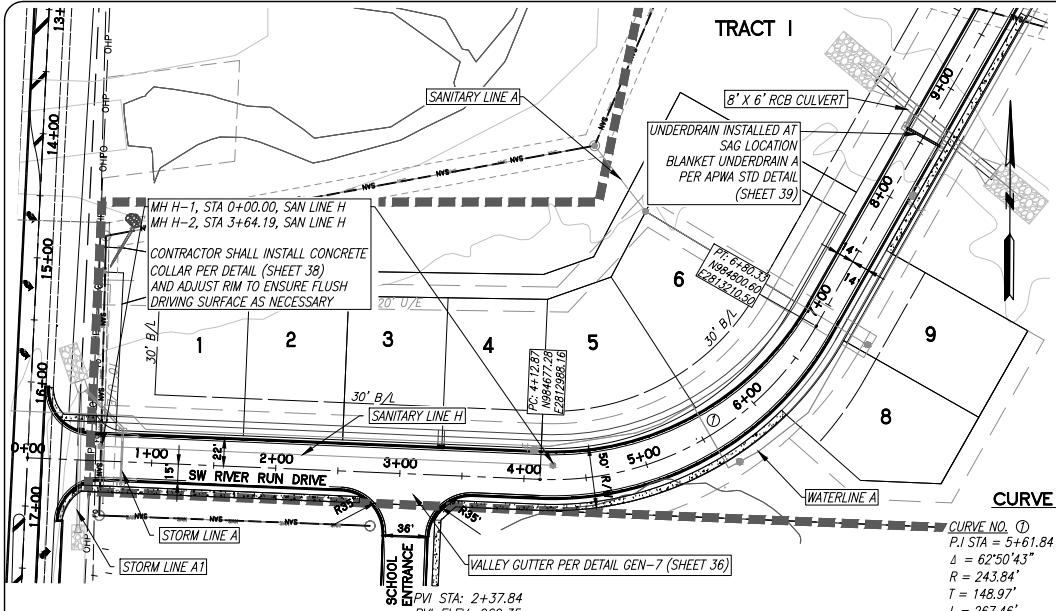
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AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS,



**PHOENIX ENGINEERING
& SURVEYING, LLC**

#

H:\projects\2004\0407BA2 - Whisperin Woods Phase 1 \dwm\2022 Ashbuilt Asbuilt - Street & Storm Plans - 11-09-19.dwg



This figure is a topographic map with contour lines and a grid. It includes several elevation profiles (VPI, EVC, EVCS) and associated data tables. A callout box at the bottom right contains the text "NOT AS-BUILT NOVEMBER 2022".

1090

1020

1010

PVI STA: 0+45.00
PVI ELEV: 957.68
K: 7.00
LVC: 50.00

LOW PT STA: 0+20.00
LOW PT ELEV: 957.33

EVCS: 0+70.00
EVC: 959.19

BVCS: 1+88.68
BVE: 968.38

K: 21.21
LVC: 98.31

1000

HIGH PT STA: 0+27.09
HIGH PT ELEV: 957.89

EVCS: 2+86.99
BVE: 970.05

990

980

970

960

950

940

930

PVI STA = 0+00.00
PVI ELEV = 968.25 BVCS: 0+00.00
BVCE: 968.25

-2.00% -1.00% -0.50%

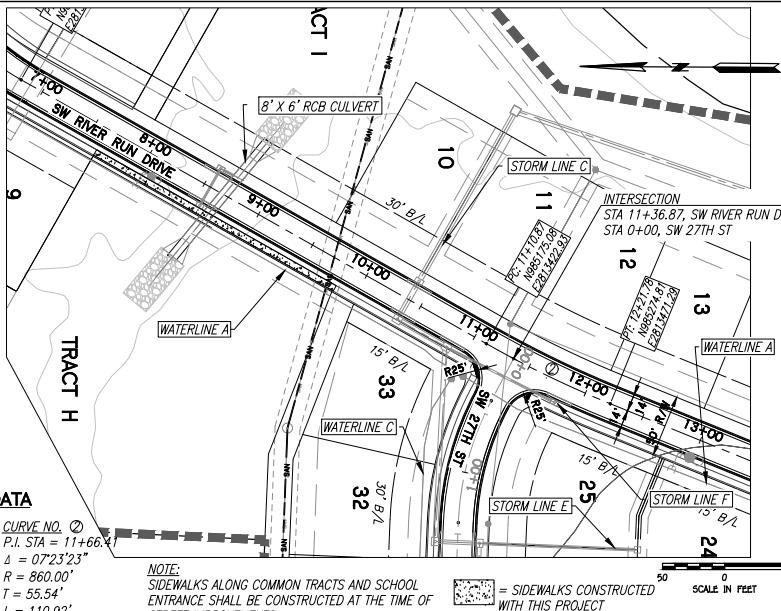
1.42%

NOT AS-BUILT
NOVEMBER 2022

| Station | Elevation |
|---------|-----------|
| 0+00.00 | 968.25 |
| 0+05.00 | 968.25 |
| 0+10.00 | 963.47 |
| 0+15.00 | 961.01 |
| 0+20.00 | 965.32 |
| 0+25.00 | 964.03 |
| 0+30.00 | 967.35 |
| 0+35.00 | 969.00 |
| 0+40.00 | 969.20 |
| 1+00.00 | 969.93 |
| 1+05.00 | 970.23 |
| 1+10.00 | 971.52 |
| 1+15.00 | 970.72 |
| 1+20.00 | 972.85 |
| 1+25.00 | 970.91 |

NOT AS-BUILT
NOVEMBER 2022

SW RIVER RUN DRIVE PROFILE

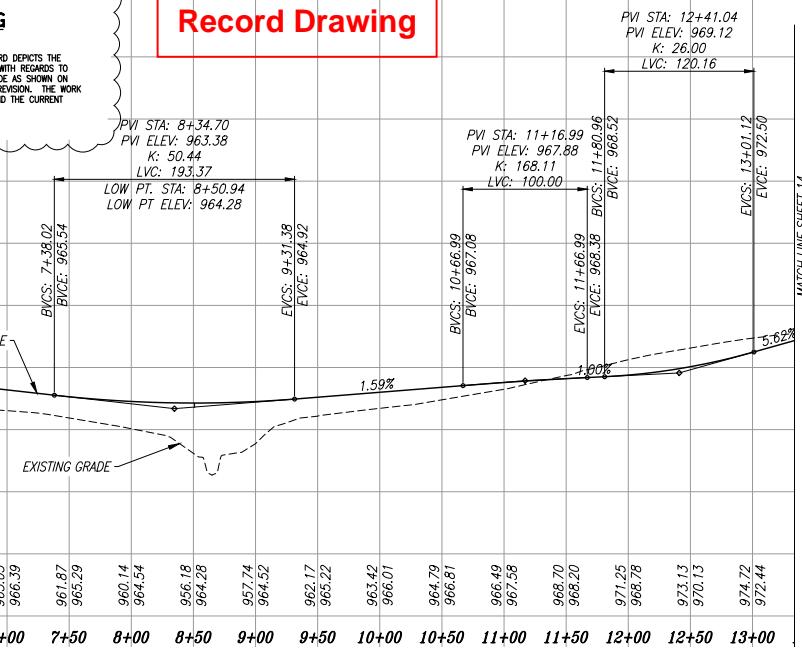


RECORD DRAWING

NOVEMBER 2022

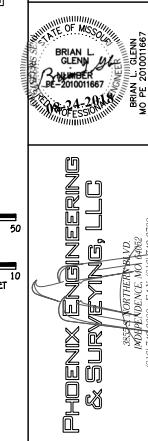
PER CONTRACTOR PROVIDED INFORMATION THIS WORK CONSTRUCTED AS IN GENERAL CONFORMANT SIZE, HORIZONTAL AND VERTICAL LOCATION, AND THE APPROVED CONSTRUCTION DRAWINGS OR THAT WAS DONE IN ACCORDANCE WITH THESE RECORDS VERSION OF THE STANDARDS AND SPECIFICATIONS

Record Drawing



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*LEES SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS*



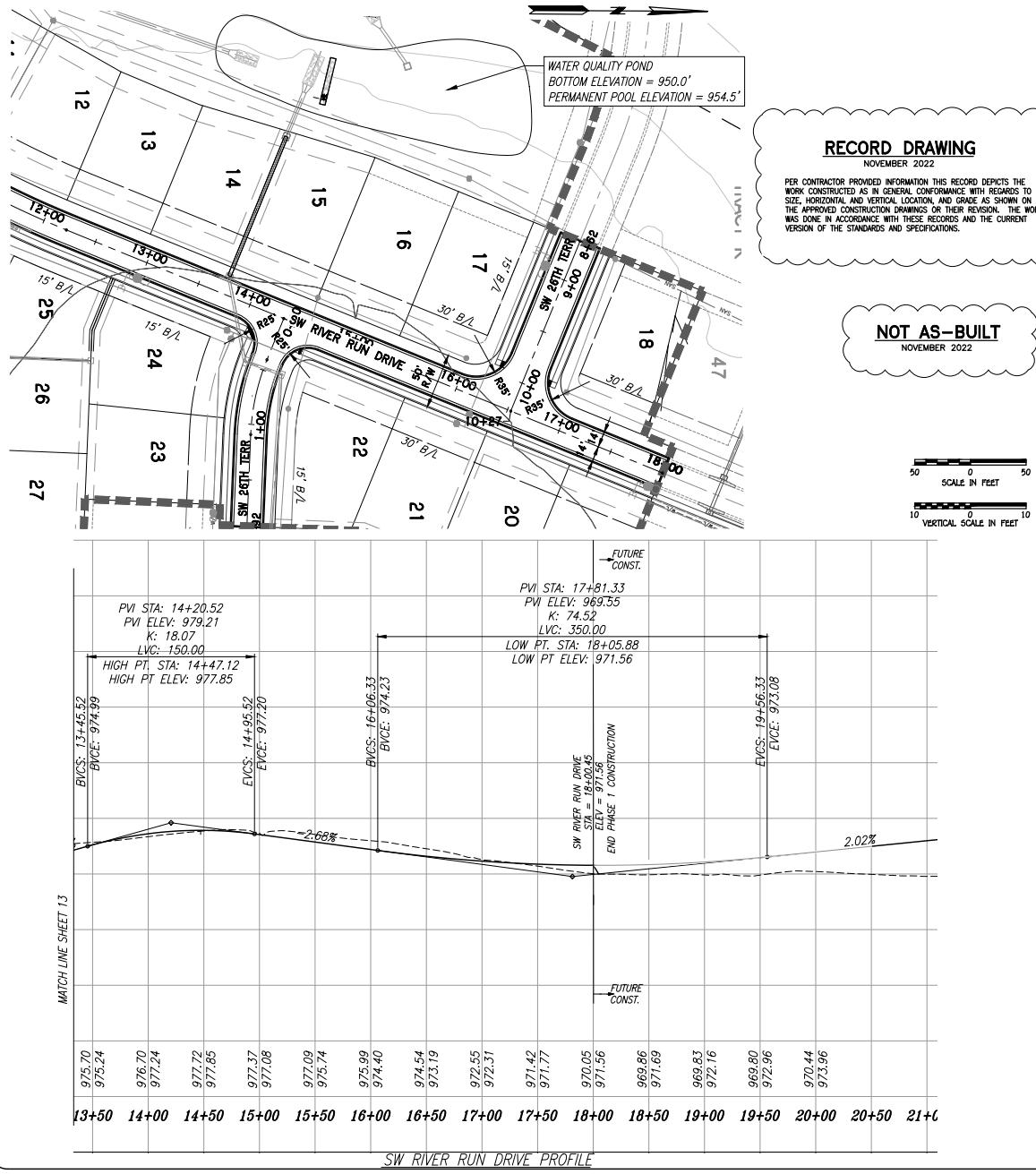
(816) 743-6700 FAX: *(816) 743-6700*

ENGINEERING CERTIFICATE NO.: **LS-2001051302-D**
SURVEYING CERTIFICATE NO.: **LS-2001051303-D**

KS-**E-853**
KS-**L-138**

MO PE-2001001667
AS AGENT OF
PHENIX & ENGINEERING,
LLC

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DO NOT DISTRIBUTE TO ANY OTHER PERSON.



RECORD DRAWING

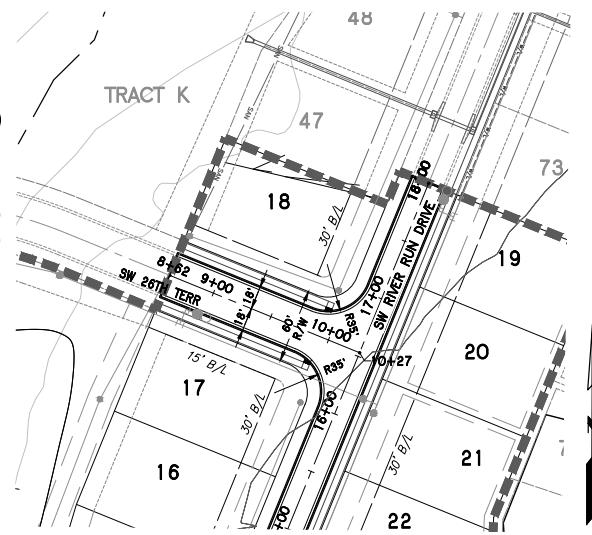
NOVEMBER 2022

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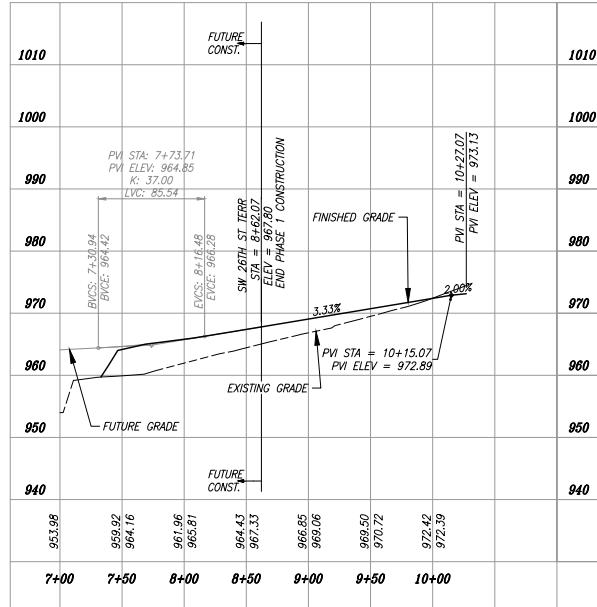
NOT AS-BUILT

NOVEMBER 2022

A scale bar at the top shows a horizontal line with tick marks at 50, 0, and 50, labeled "SCALE IN FEET". Below it is a vertical scale indicator showing a line with tick marks at 10, 0, and 10, labeled "VERTICAL SCALE IN FEET".



Record Drawing

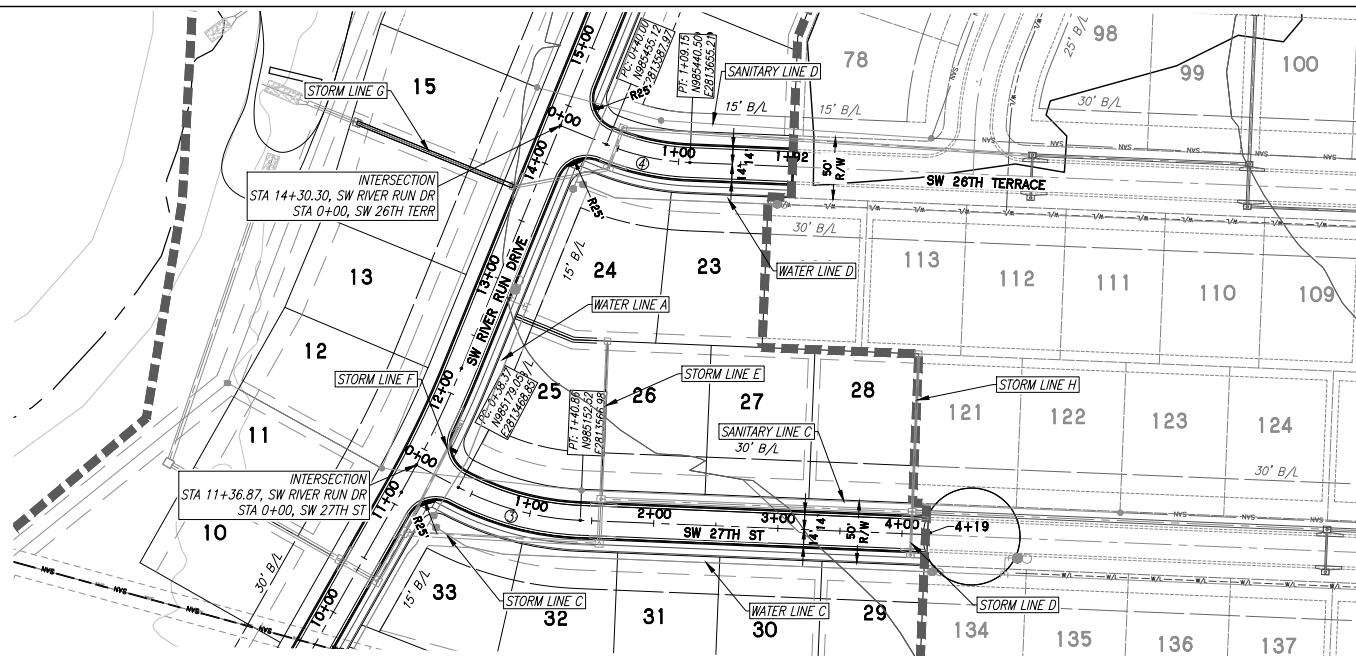


SW 26TH TERRACE (COLLECTOR) PROFILE

| | |
|--|--|
| REVISION | |
|  <p>STATE OF MISSOURI BRIAN L. KARBER, NUMBER DL-2010011687 APR 24 2014</p> | |
| <p>PHOENIX ENGINEERING & SURVEYING, LLC</p> <p>Engineering Office: 100 E. 10th Street, Suite 100, Kansas City, MO 64106 Engineering Certificate No.: MO E-2000150520-D Surveying Certificate No.: MO S-2000150520-D</p> <p>The seal(s) and signature(s) apply only to the document to which they are affixed. The seal(s) and signature(s) do not apply to all other documents or parts of documents. Any express or implied representations contained in this document are limited to the facts set forth in it and are not based on any part of the Engineering or Surveying Project.</p> | |

WHISPERING WOODS
LEE'S SUMMIT, JACKSON CO.
STREET & STORM SEWER
STREET PLAN & PRO

DESIGNED
BLG
DRAWN
BLG
SCALE
Noted
DATE
09-01-2017
JOB NO.
04078
SHEET



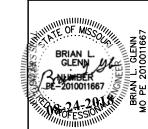
CURVE DATA

| <u>CURVE NO. ③</u> | <u>CURVE NO. ④</u> |
|------------------------------|------------------------------|
| P.I. STA = 1+92.97 | P.I. STA = 1+44.07 |
| $\Delta = 25^{\circ}31'58''$ | $\Delta = 19^{\circ}48'33''$ |
| R = 230.00' | R = 200.00' |
| T = 52.11' | T = 34.92' |
| L = 102.50' | L = 69.15' |

CURVE NO. ④
 P.I. STA = 1+44.07
 $\Delta = 19^{\circ}48'33''$
 $R = 200.00'$
 $T = 34.92'$
 $L = 69.15'$

NOT AS-BUILT
NOVEMBER 2022

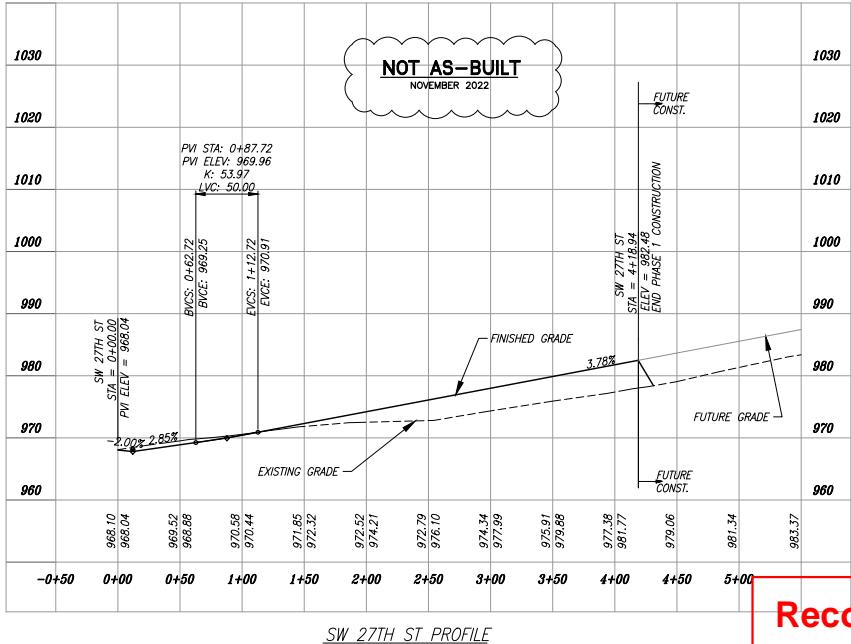
NOVEMBER 2022



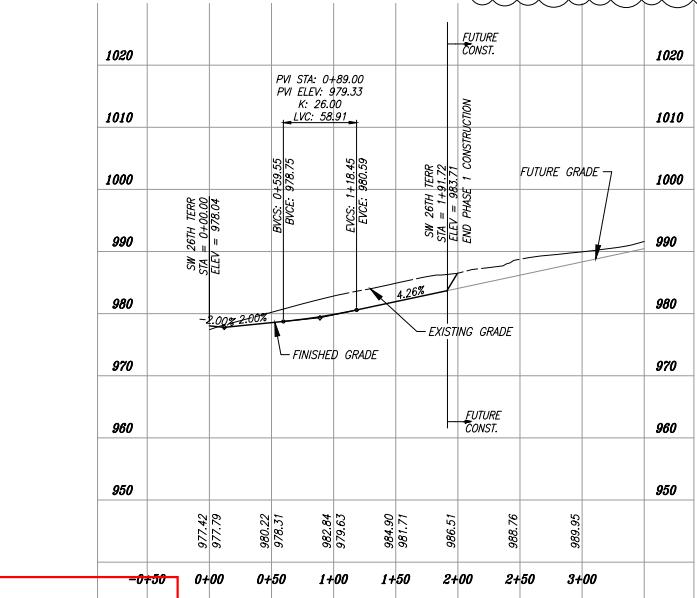
RECORD DRAWING

NOVEMBER 2022

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Record Drawing

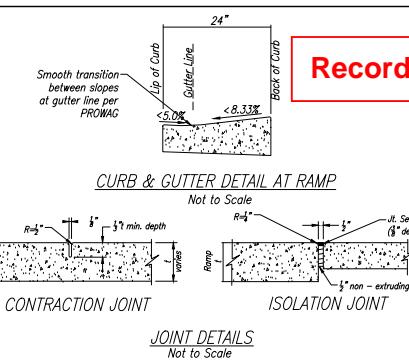
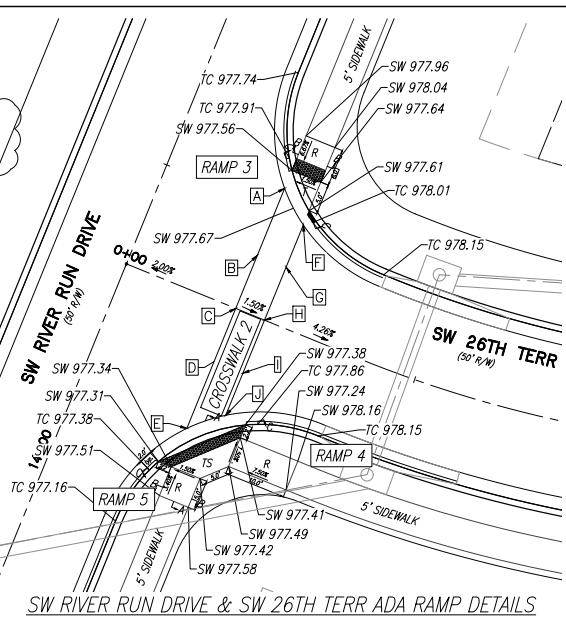
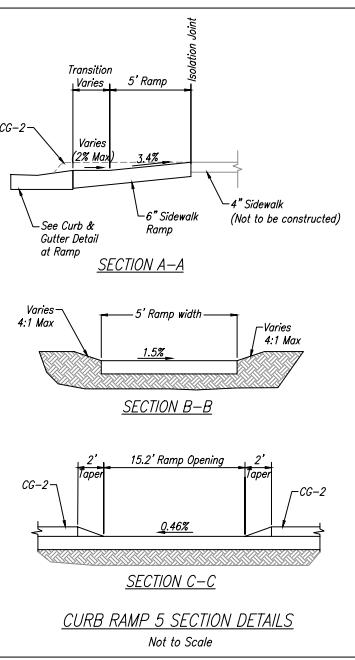
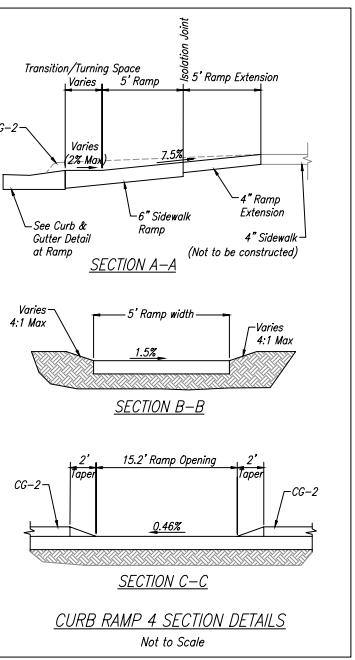
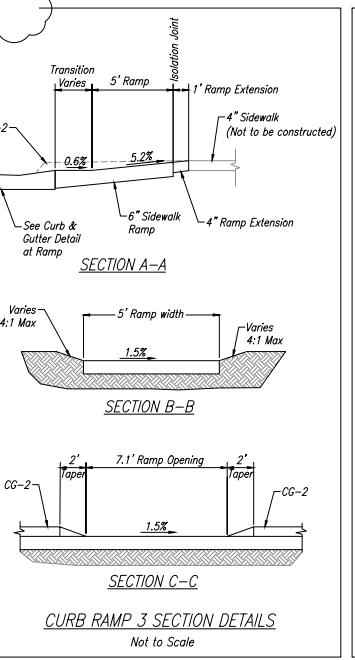
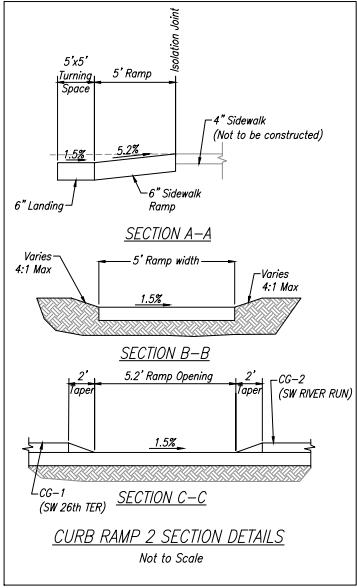
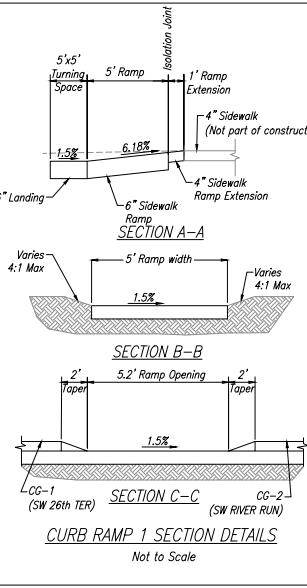
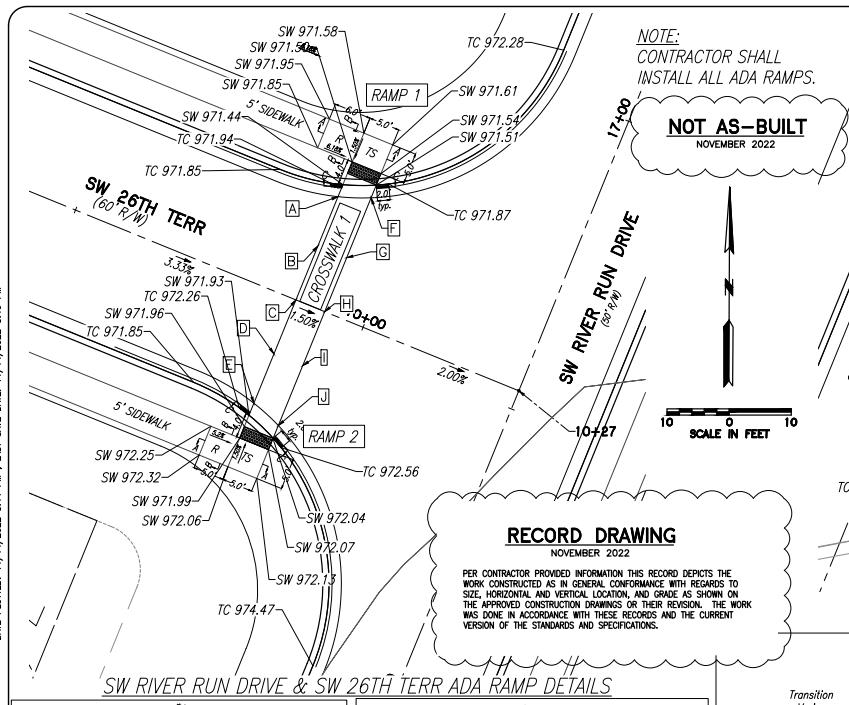


SW 26TH TERRACE PROFILE

WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY
STREET & STORM SEWER
STREET PLAN & PROFILE

**PHOENIX ENGINEERING
& SURVEYING, LLC**

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| STREET CROSSING SPOT ELEVATION TABLE | | |
|--------------------------------------|-------------|-------------|
| | CROSSWALK 1 | CROSSWALK 2 |
| SPOT | ELEVATION | ELEVATION |
| A | 971.43 | 977.64 |
| B | 971.74 | 977.65 |
| C | 972.04 | 977.70 |
| D | 971.97 | 977.53 |
| E | 971.93 | 977.34 |
| F | 971.51 | 977.69 |
| G | 971.82 | 977.73 |
| H | 972.12 | 977.78 |
| I | 972.48 | 977.61 |
| J | 972.01 | 977.44 |

Record Drawing

PHOENIX ENGINEERING & SURVEYING, LLC
REGISTRATION NO. 172
SIC 7210, 7220, 7230
ENGINEERING CERTIFICATE NO.: MO-200015102-D
SURVEYING CERTIFICATE NO.: KS-LS-183
MO LS-200015103-D

NOTE:
CONTRACTOR SHALL
INSTALL ALL ADA RAMPS

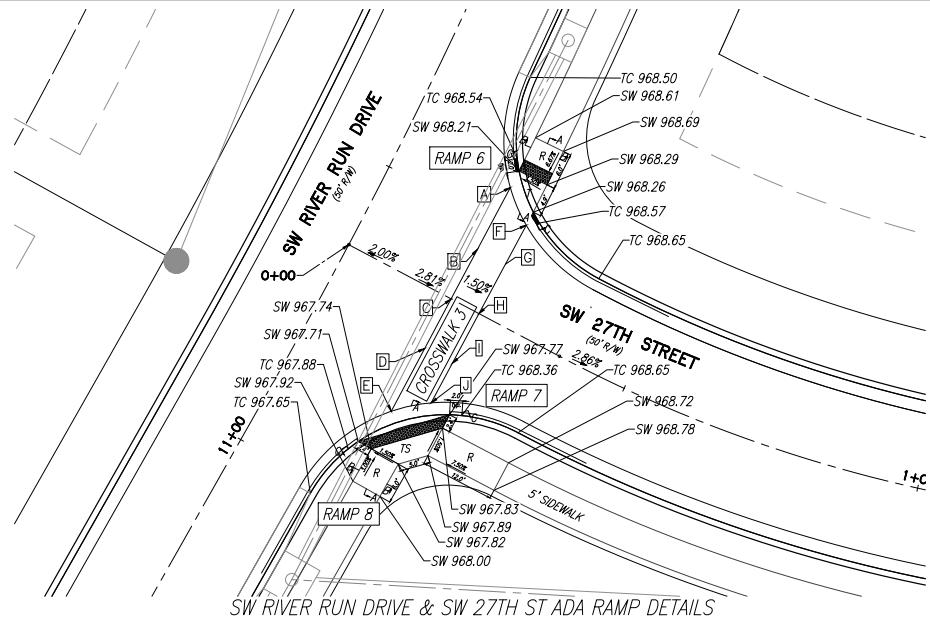
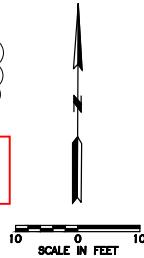
RECORD DRAWING

NOVEMBER 202

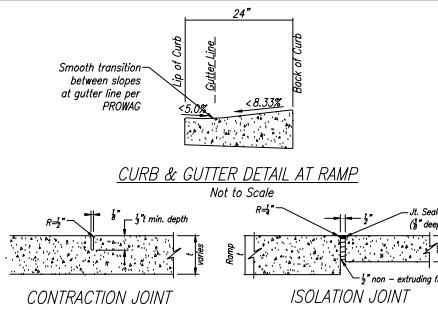
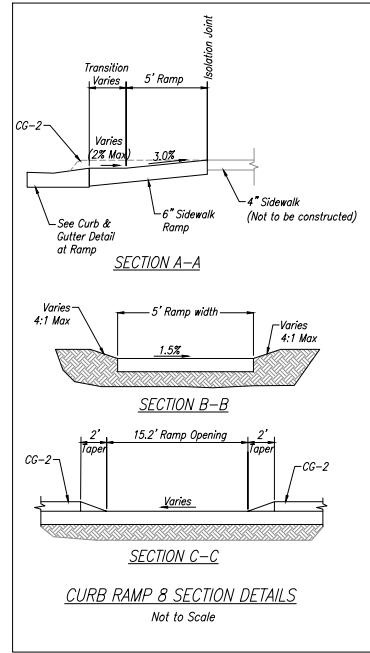
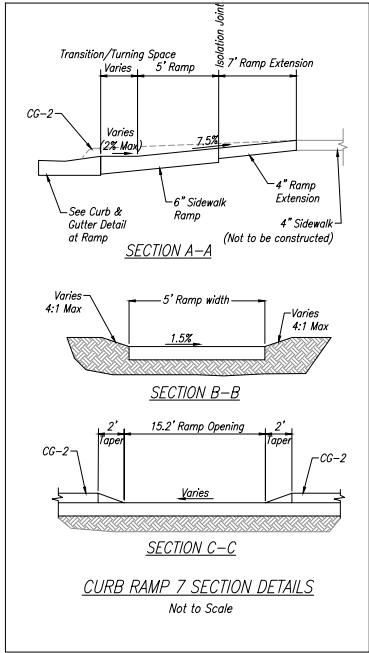
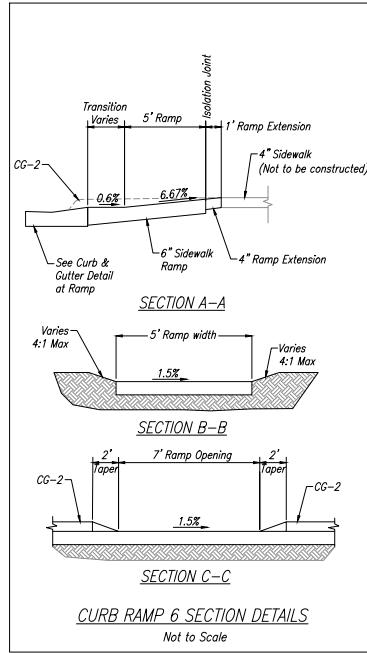
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NOT AS-BUILT

EMBER 2022

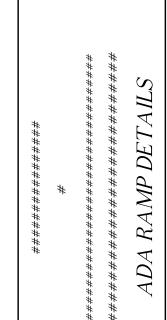
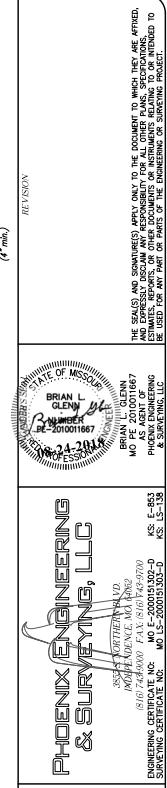


SW RIVER RUN DRIVE & SW 27TH ST ADA RAMP DETAILS



INTRACTION JOINT

| SPOT ELEVATION TABLE | |
|----------------------|--------------------------|
| SPOT | CROSSWALK 3 ELEVATION |
| A | 968.22 |
| B | 968.08 |
| C | 968.02 |
| D | 967.91 |
| E | 967.76 |
| F | 968.29 |
| G | 968.16 |
| H | 968.10 |
| I | 967.99 |
| J | 967.80 |



DESIGNED
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DRAWN
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SCALE
Noted
DATE
09-01-2017
JOB NO.
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NOTE:
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INSTALL ALL ADA RAMPS.

RECORD DRAWING

NOVEMBER 2022

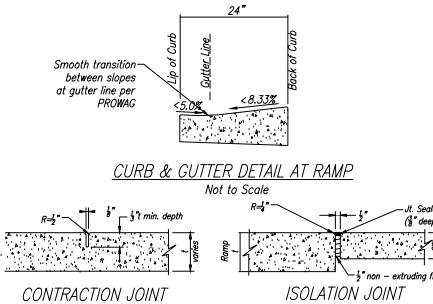
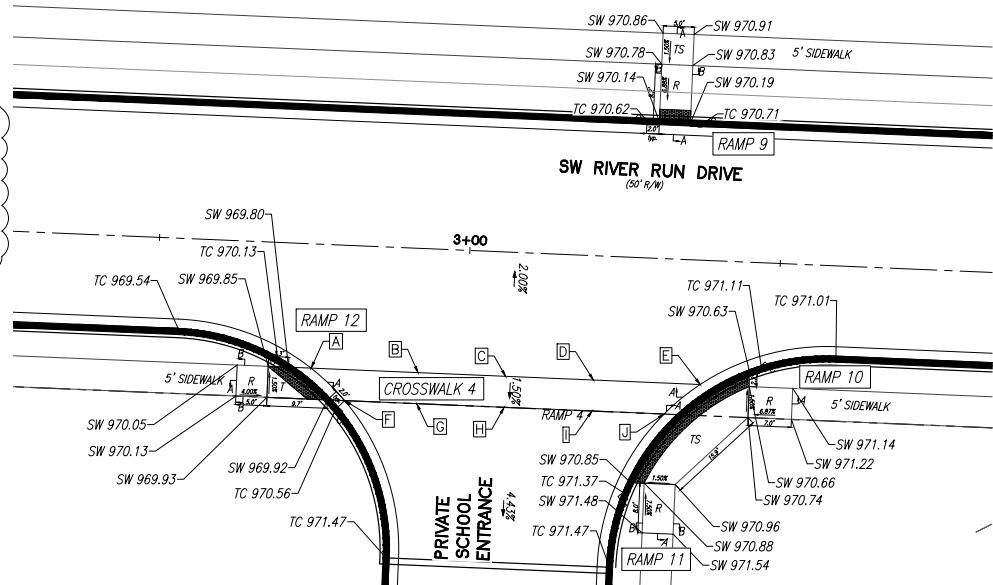
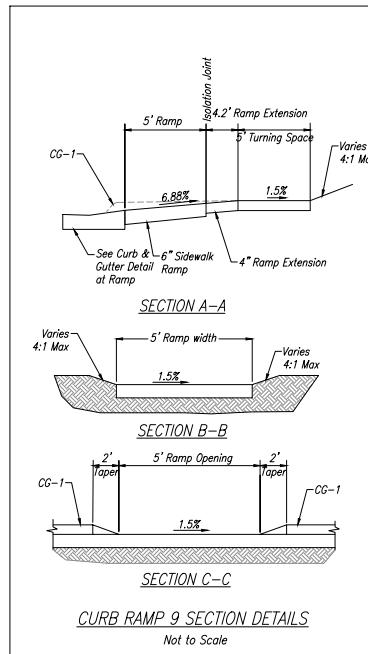
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NOVEMBER 2022

Record Drawing

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SCALE IN FEET



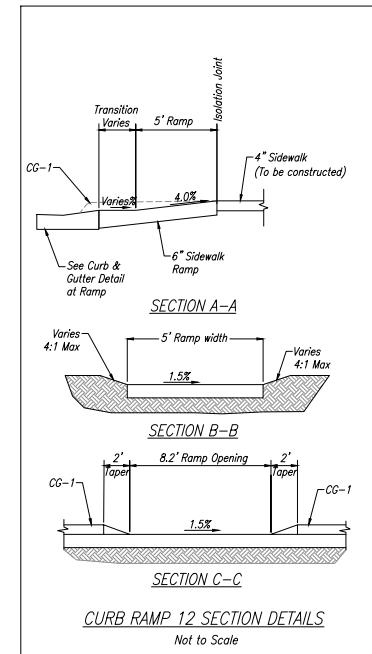
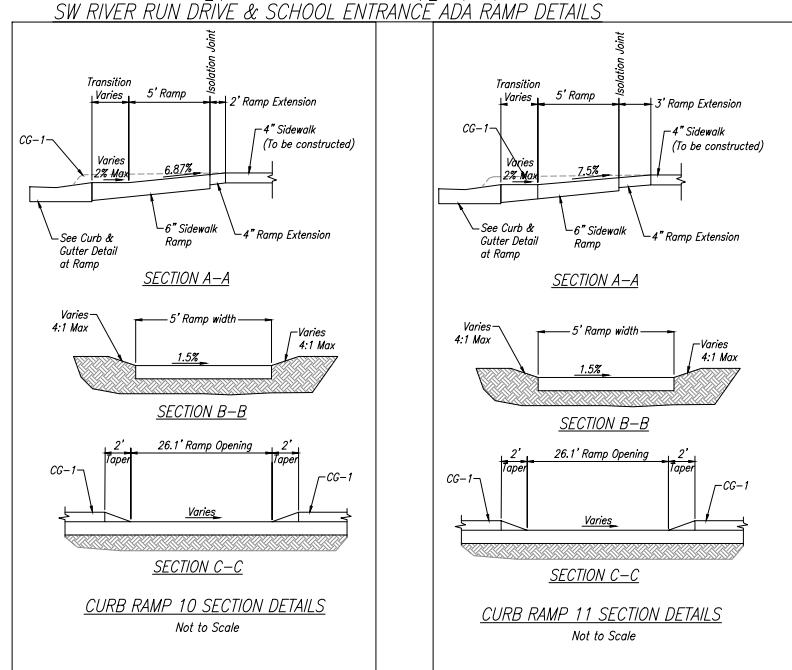
& GUTTER DETAIL AT RAMP

CONTRACTION JOINT

ISOLATION JOINT

JOINT DETAILS

| SPOT ELEVATION TABLE | |
|----------------------|-------------|
| | CROSSWALK 4 |
| SPOT | ELEVATION |
| A | 969.80 |
| B | 970.10 |
| C | 970.21 |
| D | 970.43 |
| E | 970.70 |
| F | 970.90 |
| G | 970.18 |
| H | 970.29 |
| I | 970.51 |
| J | 970.75 |



| | |
|---|--|
| <p>STATE OF MISSOURI</p> <p>BRIAN L. NUMBER DE-2010011667</p> <p>3557 COTTAGE RD 817-542-1792</p> <p>ENGINEERING, SURVEYING, & PLANNING</p> <p>PHOENIX ENGINEERING & SURVEYING, LLC</p> | <p>(4 mil) REVISION</p> <p>The seals and signatures apply only to the document to which they are affixed, and expressly disclaim all other legal representations, warranties, or agreements. This seal is used for surveying or engineering or surveying projects.</p> <p>BE ADVISED THAT ANY PART OR PORTION OF THIS DOCUMENT IS SUBJECT TO REENGINEERING OR SURVEYING PROJECT.</p> |
|---|--|

PHOENIX & SURV

ADA RAMP DETAILS

DESIGNED

DRAWN
JRT
SCALE
Noted
DATE
09-01-2017
JOB NO.
#####

NOTE:
CONTRACTOR SHALL
INSTALL ALL ADA RAMPS.

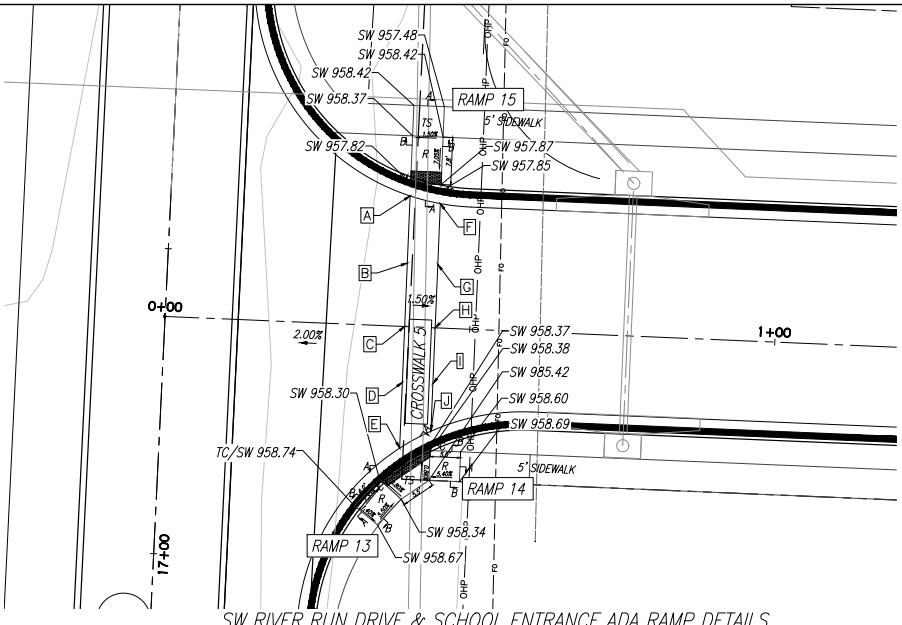
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NOVEMBER 2022

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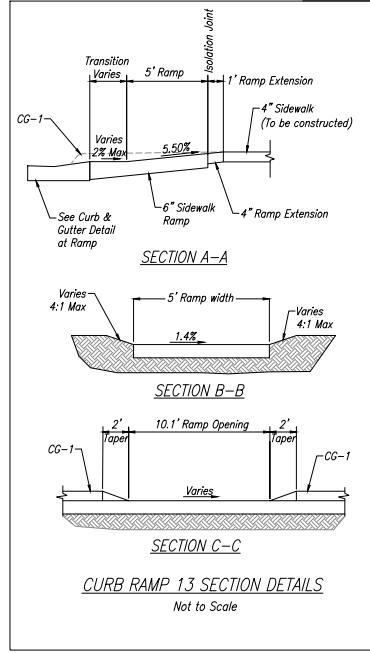
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NOVEMBER 2022

Record Drawing

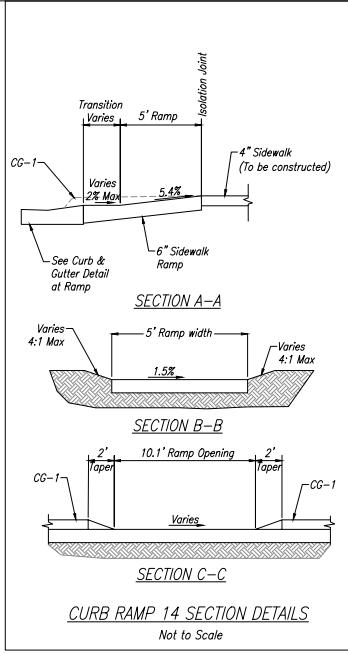
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SCALE IN FEET



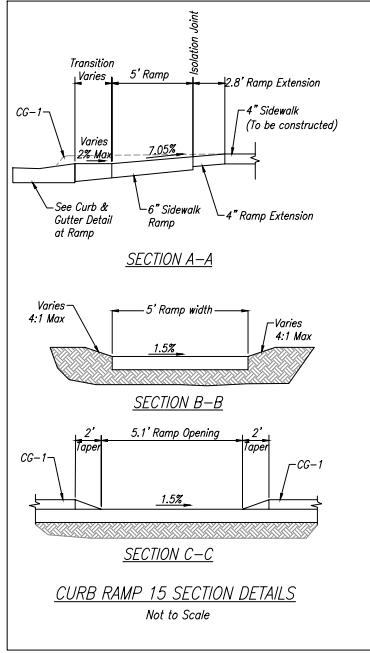
SW RIVER RUN DRIVE & SCHOOL ENTRANCE ADA RAMP DETAILS



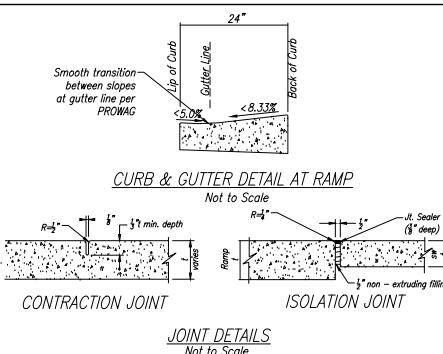
CURB RAMP 13 SECTION DETAILS



CURB RAMP 14 SECTION DETAILS
Not to Scale



CURB RAMP 15 SECTION DETAILS



& GUTTER DETAIL AT RAMP

CONTRACTION JOINT

ISOLATION JOINT

JOINT DETAILS

| SPOT ELEVATION TABLE | |
|----------------------|-------------|
| | CROSSWALK 5 |
| SPOT | ELEVATION |
| A | 957.77 |
| B | 957.87 |
| C | 958.01 |
| D | 958.14 |
| E | 958.31 |
| F | 957.84 |
| G | 957.95 |
| H | 958.09 |
| I | 958.21 |
| J | 958.34 |

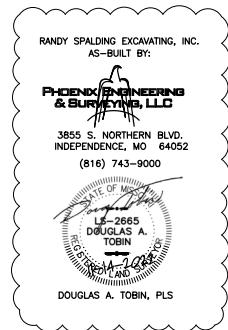
| | |
|---|--|
| <p>PHOENIX ENGINEERING & SURVEYING, LLC</p> | <p>(4 min.) REVISION</p> <p>The seals (and signatures) apply only to the document to which they are affixed.</p> <p>AND EXPRESSLY DISCLAIM ALL OTHER CLAIMS AND SPECIFICATIONS,</p> <p>BE IT KNOWN THAT THE BOARD OF PROFESSIONAL SURVEYORS, DOING BUSINESS AS THE MISSOURI BOARD OF PROFESSIONAL SURVEYORS, IS NOT RESPONSIBLE FOR THE PLACEMENT OR USE OF THIS DOCUMENT ON OR PARTS OF THE ENGINEERING OR SURVEYING PROJECT.</p> |
| <p>BRIAN GLENN NUMBER DE-2010011687 PROFESSIONAL SURVEYOR 24-2044</p> | |
| <p>STATE OF MISSOURI BOARD OF PROFESSIONAL SURVEYORS REGISTRATION CERTIFICATE</p> | |
| <p>REGISTRATION NUMBER: DE-2010011687 EXPIRATION DATE: 06/30/2016 REGISTRATION FEE: \$100.00 REGISTRATION FEE PAYMENT: MO-S-20015105-D SURVEYING CERTIFICATE NO.: MO-S-20015105-D KS-S-LS-138</p> | |

**PHOENIX ENGINEERING
& SURVEYING, LLC**

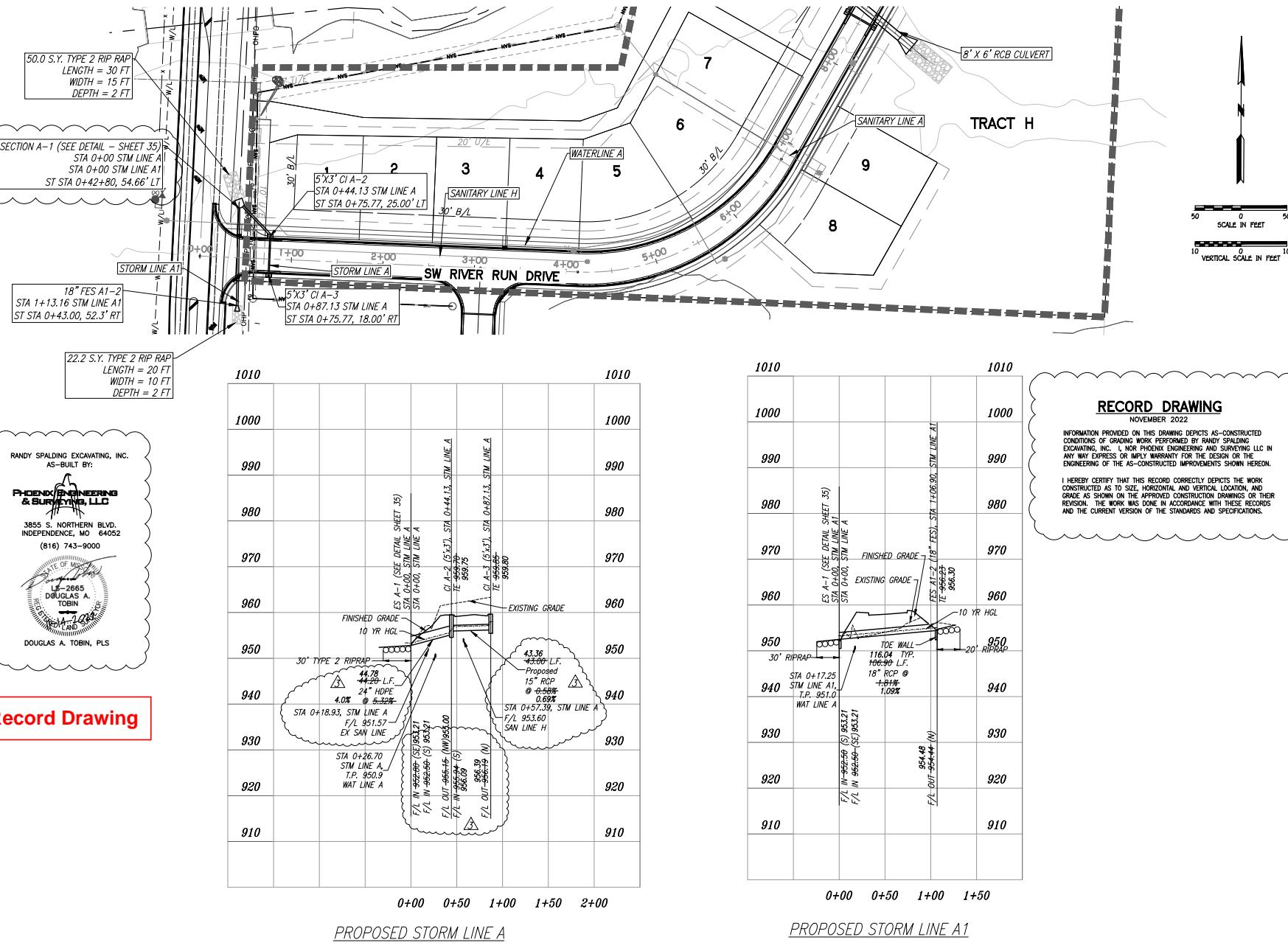
ADA RAMP DETAILS

#.#.#

SHEET
24 OF 40



Record Drawing



| | |
|-------------|------------|
| DESIGNED BY | BLG |
| DRAWN BY | BLG |
| SCALE | Noted |
| DATE | 09-01-2017 |
| JOBSITE | 40478 |
| STREET | 25 OF 40 |

PHOENIX ENGINEERING & SURVEYING LLC - 2018

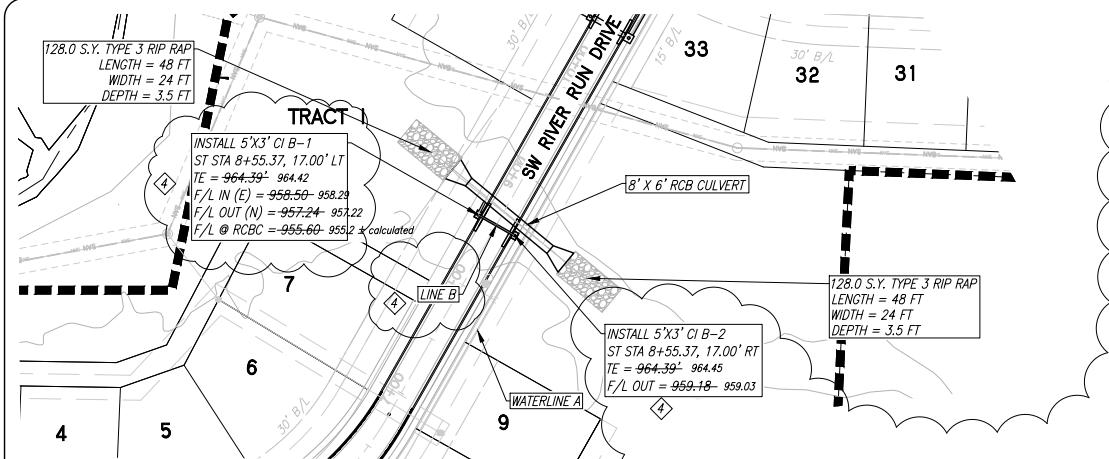
STATE OF MISSOURI
BUREAU OF SURVEYING
REGISTRATION NO. 102
REGISTRATION DATE: 10-10-2014
EXPIRATION DATE: 10-10-2018
NAME: RANDY SPALDING
ADDRESS: 3855 S. NORTHERN BLVD.
INDEPENDENCE, MO 64052
(816) 743-9000
PHONE:
EMAIL: SPALDING@GMAIL.COM
SIGNATURE: RANDY SPALDING
DOUGLAS A. TOBIN, PLS

RECEIVED BY: RANDY SPALDING
DATE: 10-10-2014
EXPIRATION DATE: 10-10-2018
NAME: RANDY SPALDING
ADDRESS: 3855 S. NORTHERN BLVD.
INDEPENDENCE, MO 64052
(816) 743-9000
PHONE:
EMAIL: SPALDING@GMAIL.COM
SIGNATURE: RANDY SPALDING

ENGINEERING CERTIFICATE NO.: MO-2000151029-D
SURVEYING CERTIFICATE NO.: MO LS-139

RECEIVED BY: RANDY SPALDING
DATE: 10-10-2014
EXPIRATION DATE: 10-10-2018
NAME: RANDY SPALDING
ADDRESS: 3855 S. NORTHERN BLVD.
INDEPENDENCE, MO 64052
(816) 743-9000
PHONE:
EMAIL: SPALDING@GMAIL.COM
SIGNATURE: RANDY SPALDING

\project\2004\04078A2 - Whispering Woods Phase 1\down\2022 Asbuilt\Asbuilt - Street & Storm Plans - 11-09-19.dwg

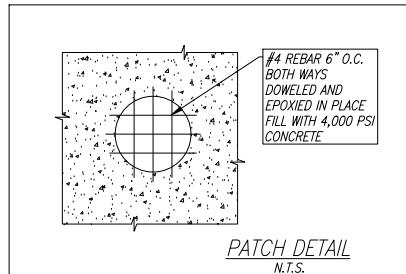


1010 } **RECORD DRAWING**

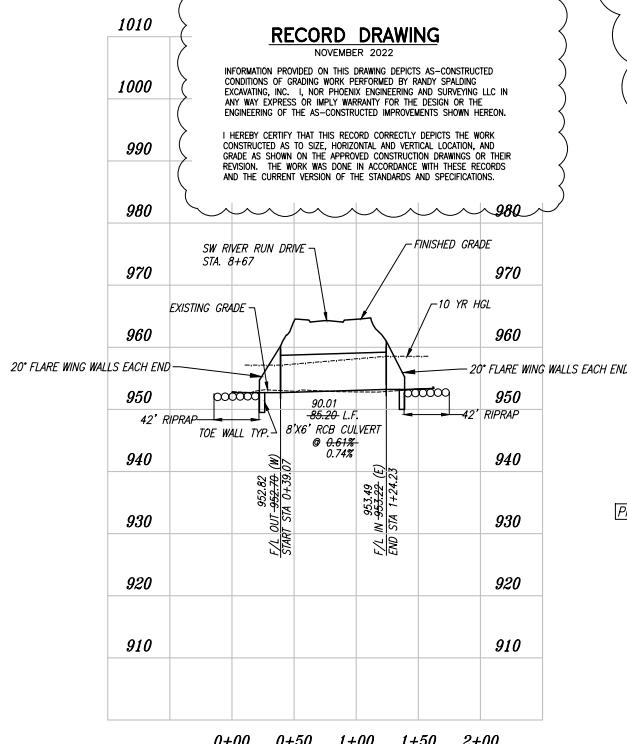
NOVEMBER 2022

INFORMATION PROVIDED ON THIS DRAWING DEPICTS AS-CONSTRUCTED CONDITIONS OF GRADING WORK PERFORMED BY RANDY SPALDING EXCAVATING, INC., NOR PHOENIX ENGINEERING AND SURVEYING LLC IN ANY WAY EXPRESS OR IMPLY WARRANTY FOR THE DESIGN OR THE ENGINEERING OF THE AS-CONSTRUCTED IMPROVEMENTS SHOWN HEREON.

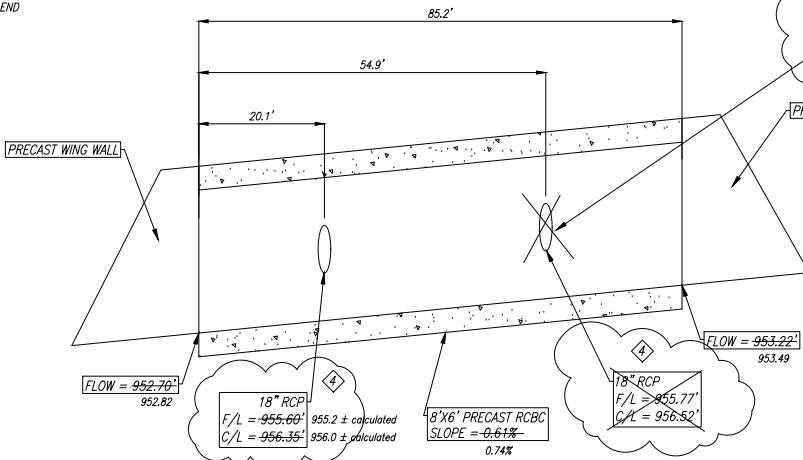
I HEREBY CERTIFY THAT THIS RECORD CORRECTLY DEPICTS THE WORK CONSTRUCTED AS TO SIZE, HORIZONTAL AND VERTICAL LOCATION, AND GRADE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS OR THEIR REVISION. THE WORK WAS DONE IN ACCORDANCE WITH THESE RECORDS AND THE CURRENT VERSION OF THE STANDARDS AND SPECIFICATIONS.



PATCH DETAIL

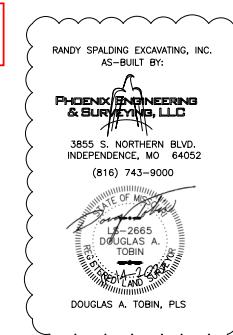


PROPOSED 8' X 6' RCB CULVERT



Record Drawing

SPECIAL NOTE:
CONTRACTOR SHALL PATCH UNUSED
"KNOCK-OUTS" WITH REINFORCED
CONCRETE. SEE PATHC DETAIL THIS SHEET



NOTE
SHOP DRAWINGS SHALL BE SUBMITTED TO
DESIGN ENGINEER AND CITY OF LEE'S
SUMMIT FOR APPROVAL.
RCBC LOAD DESIGN SHALL MEET OR
EXCEED HI-93 STANDARDS.

NOTE

*RCBC AND WING WALL SHALL BE PRECAST.
CONTRACTOR TO PROVIDE SHOP DRAWINGS*

WHISPERING WOODS
†
**LEE'S SUMMIT, JACKSON COUNTY
STREET & STORM SEWER**

5

PHOENIX ENGINEERING

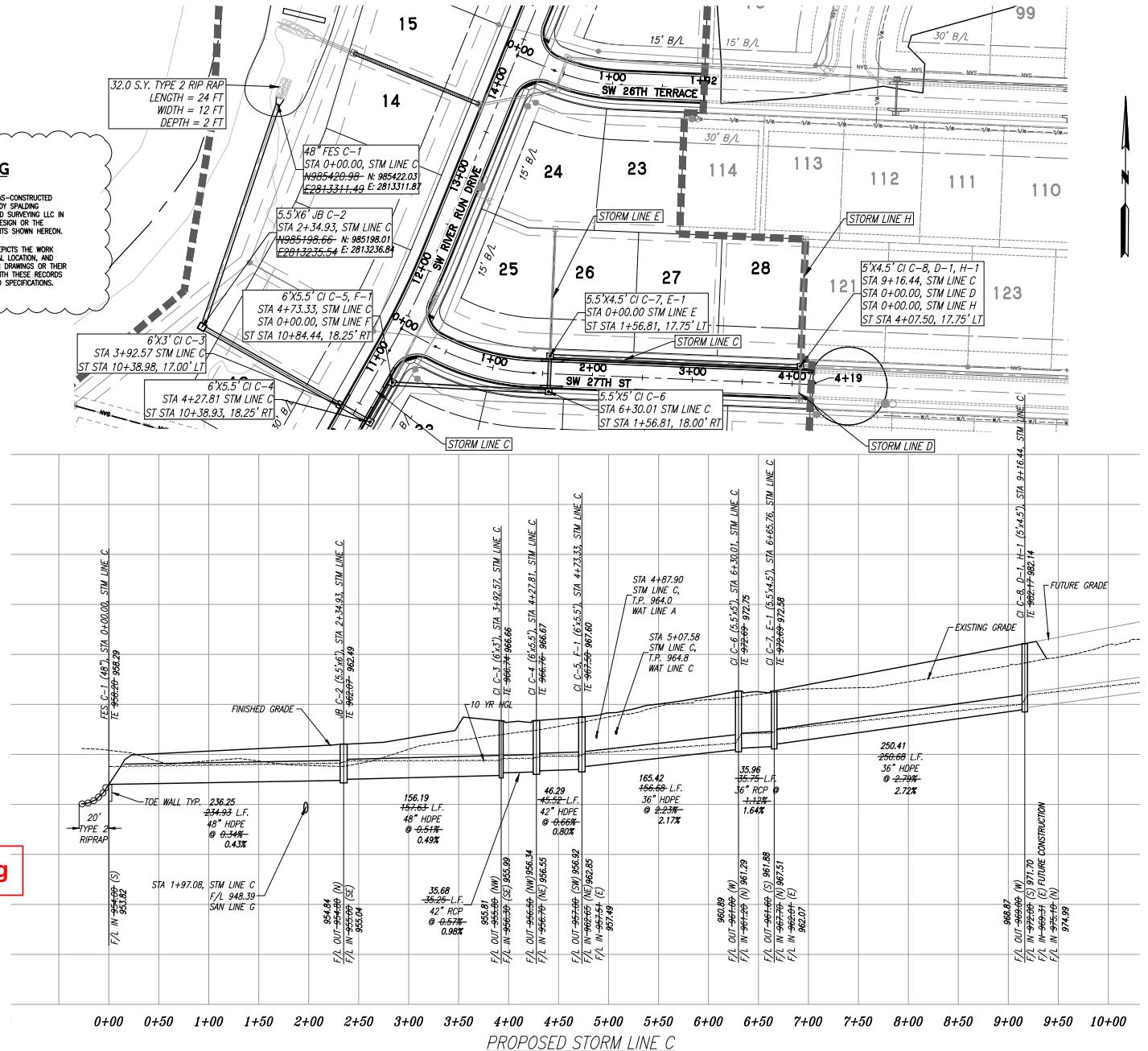
REVISION
REVISED ON 06-07-2018; CULVERT DIMENSIONS EDITED
DUE TO WING ADJUSTMENT; ADDED NOTE STATING
RCBC SHALL BE PRECAST
REVISED ON 08-10-2018; ADDED NOTE DETAILING RAILING
ALONG PERIMETER OF RCBC

RECORD DRAWING

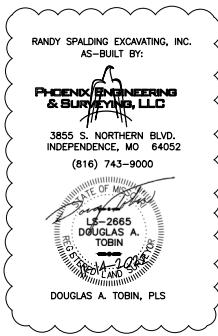
NOVEMBER 2022

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Record Drawing



A rectangular Missouri Notary Seal. The top half contains the text "NOTARY PUBLIC STATE OF MISSOURI". The bottom half contains "34-2004". The center features a circular emblem with a figure holding a sword.

PHOENIX SURVEYING, LLC

WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY
STREET & STORM SEWER
STORM PLAN & PROFILE

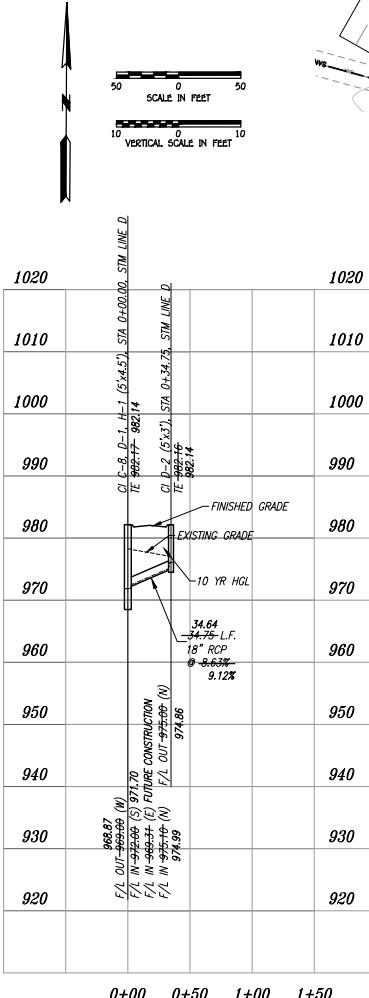
| |
|------------|
| DESIGNED |
| BLG |
| DRAWN |
| BLG |
| SCALE |
| Noted |
| DATE |
| 09-01-2017 |
| JOB NO. |
| 04078 |
| SHEET |
| 27 |
| OF |
| 40 |

RECORD DRAWING

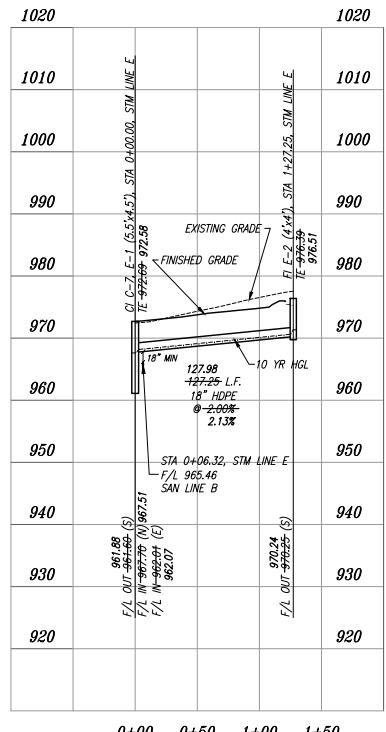
NOVEMBER 2022

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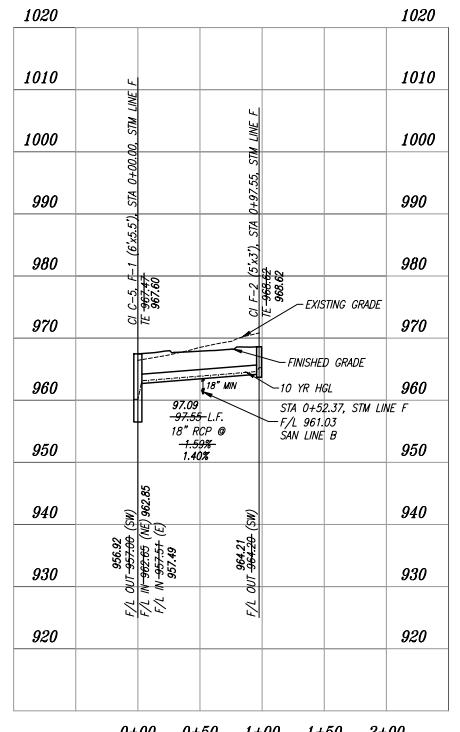
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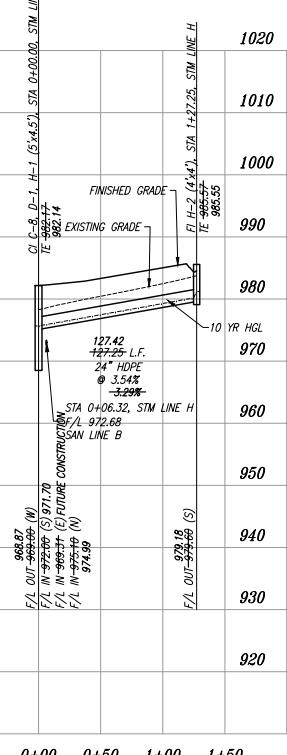
Record Drawing



PROPOSED STORM LINE E

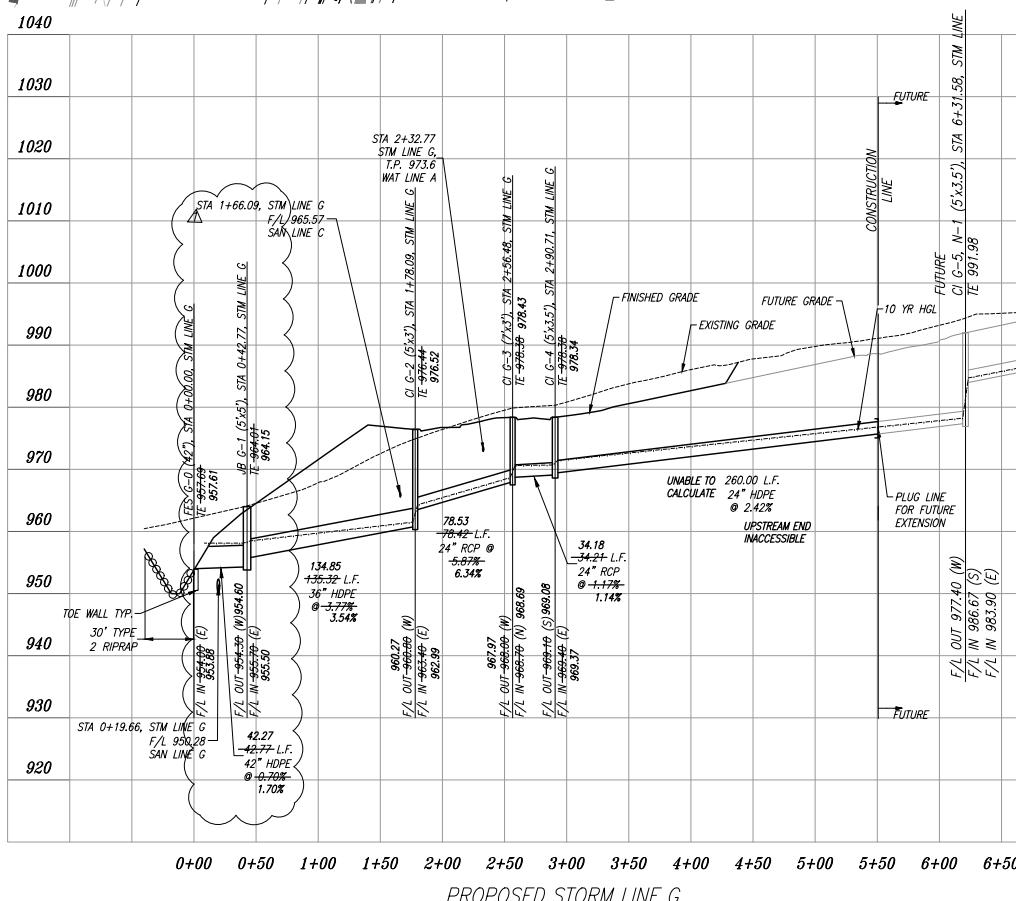
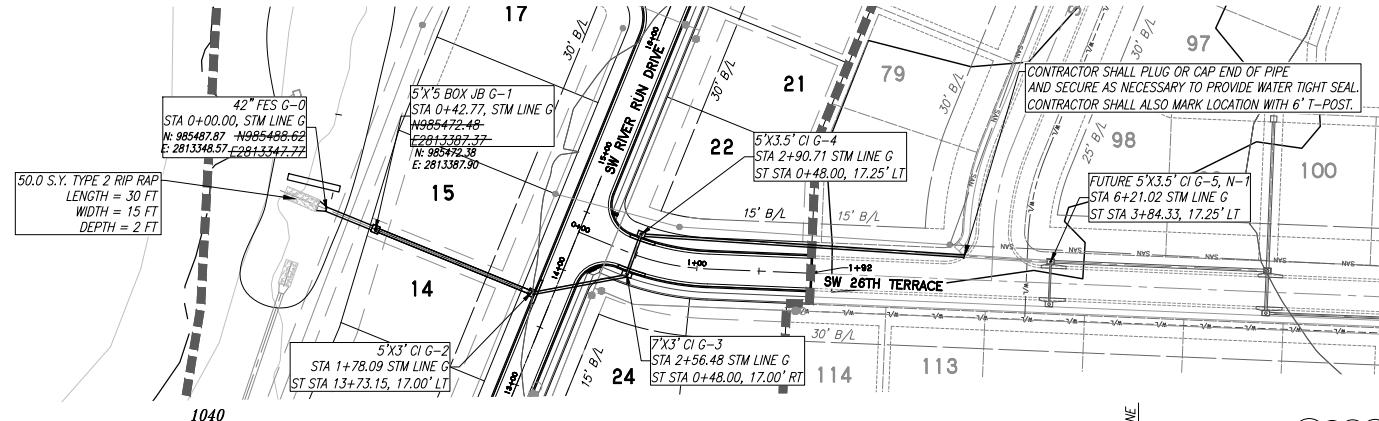


PROPOSED STORM LINE F



PROPOSED STORM LINE H



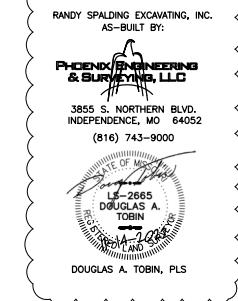


Record Drawing

RECORD DRAWING NOVEMBER 2022

INFORMATION PROVIDED ON THIS DRAWING DEPICTS AS-CONSTRUCTED CONDITIONS OF GRAVING WORK PERFORMED BY RANDY SPALDING EXCAVATING, INC., AND PHOENIX ENGINEERING & SURVEYING LLC IN ANY AND ALL EXISTING IMPROVEMENTS FOR THE DESIGN AND ENGINEERING OF THE AS-CONSTRUCTED IMPROVEMENTS SHOWN HEREON.

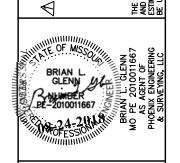
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WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
STORM PLAN & PROFILE

REVISION
REvised on 06-07-2018: ADDED JUNCTION BOX;
UP-SIZED DOWNSTREAM PIPE FROM 24" TO 42" PIPE

The scales and dimensions apply only to the document to which they are applied.
No part of this drawing may be reproduced or used for other documents, estimates, reports, or other documents without written permission of the engineer or surveyor.
It is illegal to copy or reproduce this drawing in whole or in part.



DESIGNED
BY
DRAWN
BY
SCALE
NOTED
DATE
09-01-2017
J.D.
04078
SHEET
29 OF 40
PHOENIX ENGINEERING & SURVEYING LLC - 2016

RECORD DRAWING

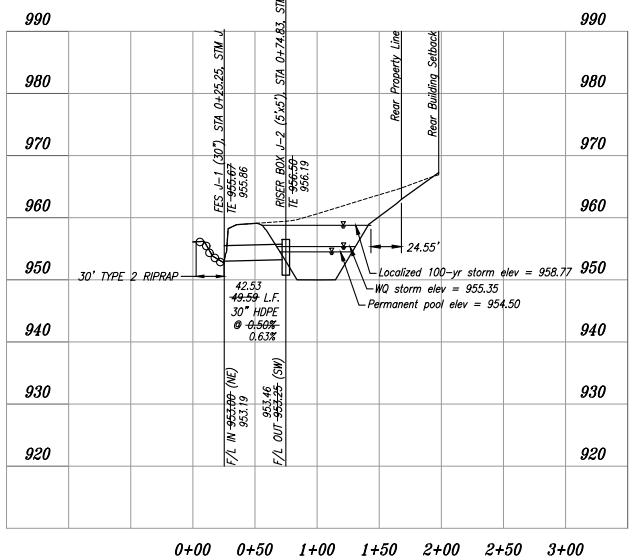
NOVEMBER 2022

INFORMATION PROVIDED ON THIS DRAWING DEPICTS AS-CONSTRUCTED CONDITIONS OF GRADING WORK PERFORMED BY RANDY SPALDING EXCAVATING, INC. 1, NOR PHOENIX ENGINEERING AND SURVEYING LLC IN ANY WAY EXPRESS OR IMPLY WARRANTY FOR THE DESIGN OR THE ENGINEERING OF THE AS-CONSTRUCTED IMPROVEMENTS SHOWN HEREON.

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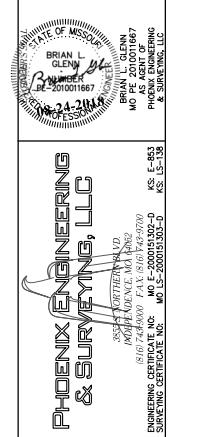
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| |
|--|
| <p>RANDY SPALDING EXCAVATING, INC. AS-BUILT BY:</p>  <p>PHOENIX ENGINEERING & SURVEYING, LLC</p> <p>3855 S. NORTHERN BLVD. INDEPENDENCE, MO 64052 (816) 743-9000</p> <p></p> <p>Douglas A. Tobin, PLS</p> |
|--|

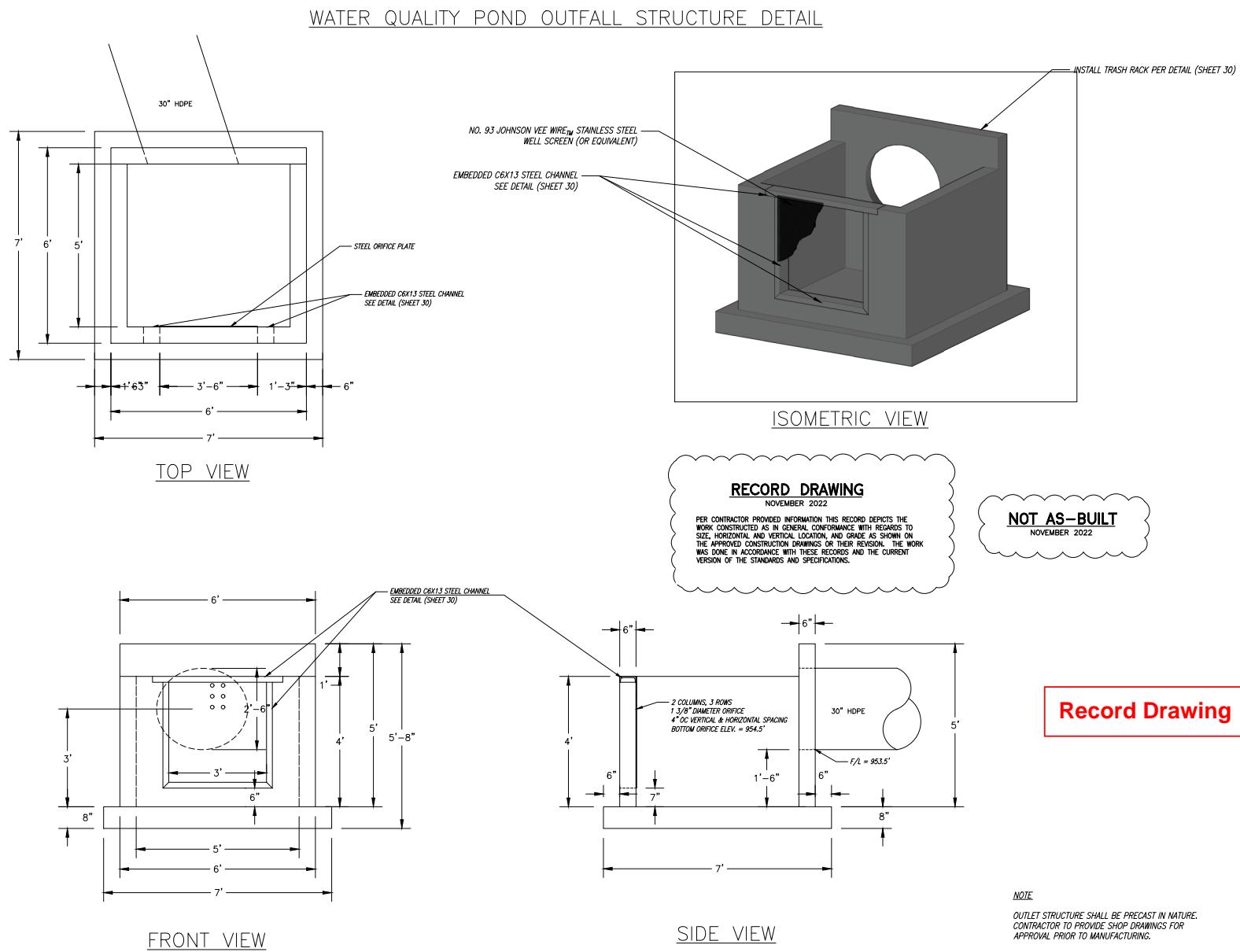


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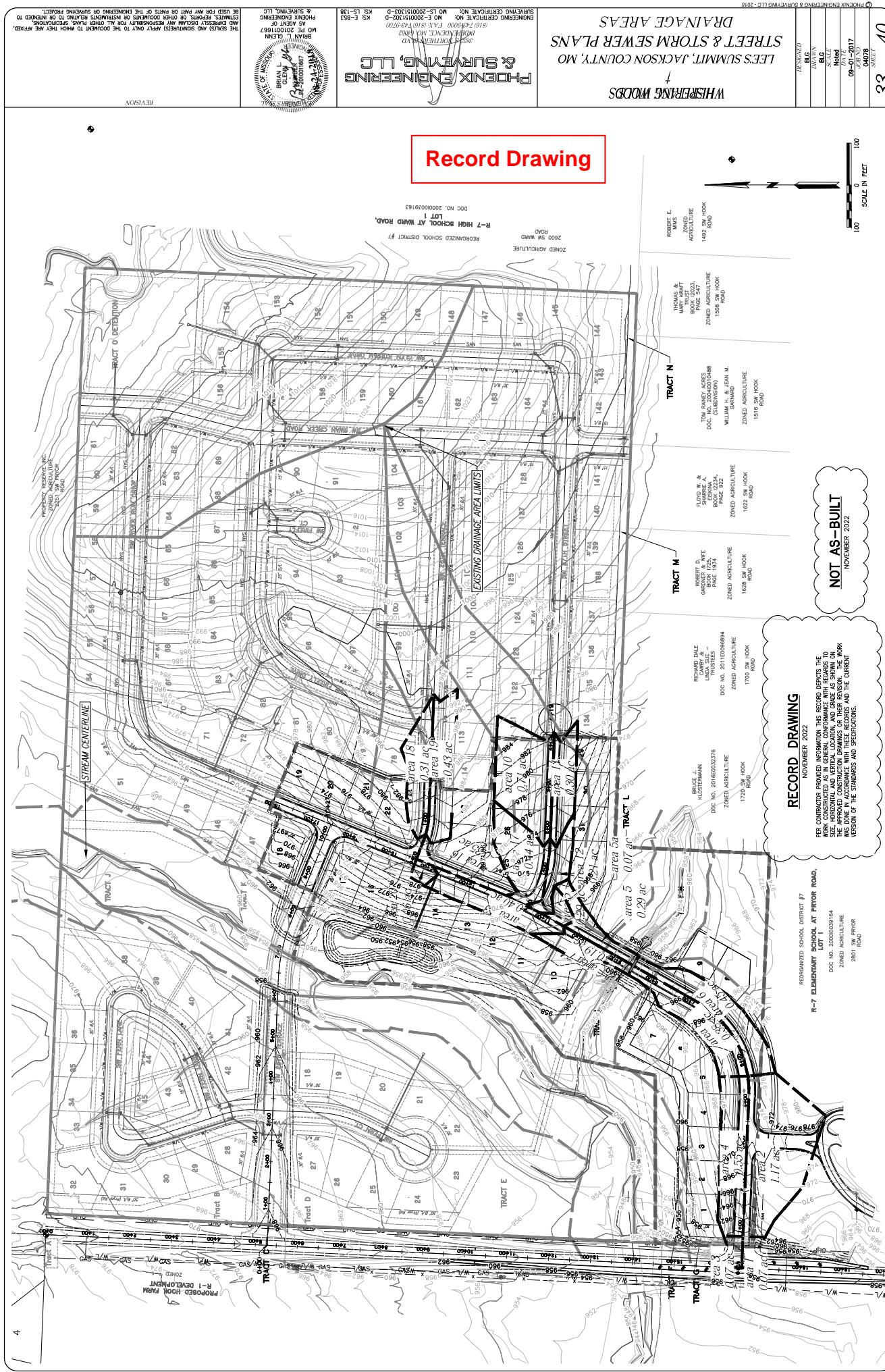
First Elaris Woods
†
**LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
STORM PLAN & PROFILE**



Wright Branch Woods
†
**JACKSON COUNTY, MO
& STORM SEWER PLANS
WRIGHT BRANCH WOODS
STORM PLAN & PROFILE**



| | | | | |
|---|----------------------------------|----------------------------|--------------------|----------------------------|
| WHISPERING WOODS | LEE'S SUMMIT, JACKSON COUNTY, MO | STREET & STORM SEWER PLANS | POND OUTLET DETAIL | REVISION |
| PHOENIX ENGINEERING & SURVEYING, LLC | | | | |
| NO. 2000151502-D | | | | |
| KS: LS-139 | | | | |
| ENGINEERING CERTIFICATE NO.: MO-2000151502-D | | | | |
| SURVEYING CERTIFICATE NO.: MO-2000151503-D | | | | |
| RECEIVED BY: STATE OF MISSOURI BRIAN L. GLENN RE-201001667 NO. PE 201001667 BRIAN L. GLENN PHOENIX ENGINEERING & SURVEYING, LLC | | | | |
| THE SEALS AND SIGNATURES APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE APPLIED. THE SEALS AND SIGNATURES DO NOT APPLY TO ANY OTHER DOCUMENTS OR INFORMATION CONTAINED HEREIN. THE CONTRACTOR IS RESPONSIBLE FOR ALL DOCUMENTS OR INFORMATION RELATING TO THE PROJECT. REVISIONS, REPRINTS, OR OTHER DOCUMENTS OR INFORMATION CONTAINING ANY PART OF THE ENGINEERING OR SURVEYING PRODUCT ARE NOT APPROVED UNLESS THEY ARE SIGNED AND SEALED BY THE CONTRACTOR. | | | | |
| DESIGNED BY BLG | DRAWN BY BLG | SCALE Noted | DATE 09-01-2017 | SHEET 40478 31 OF 40 |



H:\Projects\2004\04078A2 - WhispeRing Woods Phase 1\dwg\2022 Assutl\Assutl - Street & Storm Plans - 11-09-19.dwg

Record Drawing

NOT AS-BUILT

NOVEMBER 2022

RECORD DRAWING

NOVEMBER 2022

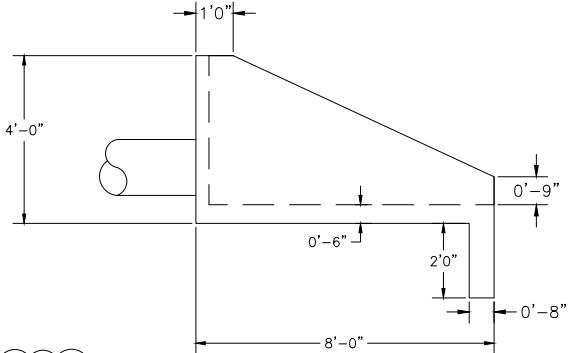
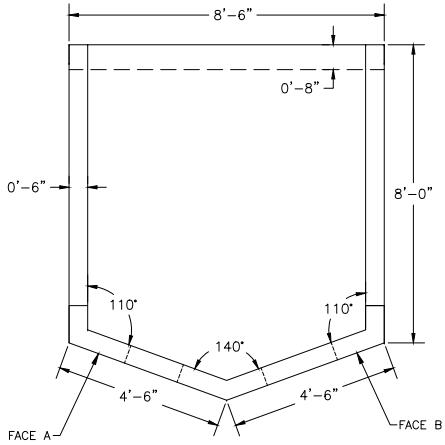
PER CONTRACTOR PROVIDED INFORMATION THIS RECORD DEPICTS THE WORK CONSTRUCTED AS IN GENERAL CONFORMANCE WITH REGARDS TO SIZE, HORIZONTAL AND VERTICAL LOCATION, AND GRADE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS OR THEIR REVISION. THE WORK WAS JUNE 2022 CONSTRUCTED BY THE CONTRACTOR AND THE CURRENT VERSION OF THE STANDARDS AND SPECIFICATIONS.

| STORM SEWER PIPE AND STRUCTURE TABLE | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------|---------------------|--------------------|-----|-----------|----------|-----------------|--------------------|----------------|--------------|--------------------|----------------|---------------|--------------|-------------------|--------------|----------------|-------|------|
| RUNOFF CALCULATIONS | | | | | | | | | | | | | | | | | | | |
| FROM | TO | DIRECT AREA (ACRES) | TOTAL AREA (ACRES) | C | KC (H-10) | Tc (MIN) | FLOW TIME (MIN) | INTENSITY (IN/HRS) | DESIGN Q (CFS) | DESCRIPTION | PIPE LENGTH (L.F.) | PIPE SLOPE (%) | PIPE DIA (IN) | Q FULL (CFS) | PIPE AREA (SF FT) | V FULL (F/S) | DESIGN V (F/S) | HwD | |
| H-1 | C-B, D-1, H-1 | 1.51 | 0.66 | 0.8 | 0.50 | 0.00 | 0.21 | 7.35 | 7.43 | First Inlet | 24" HDPE | 127.25 | 3.54 | 24 | 55.45 | 3.14 | 7.65 | 10.18 | 0.80 |
| D-1 | C-B, D-1, H-1 | 0.42 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 7.04 | Curb Inlet | 24" HDPE | 127.25 | 3.54 | 18 | 40.23 | 1.77 | 22.77 | 9.90 | 0.72 |
| E-1 | C-B, D-1, H-1 | 0.53 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 2.57 | Curb Inlet | 34/TS | 8.63 | 18 | 40.23 | 1.77 | 22.77 | 9.90 | 0.72 | |
| F-2 | C-S, F-1 | 0.35 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 1.70 | Curb Inlet | 127.25 | 2.00 | 18 | 19.39 | 1.77 | 10.97 | 6.32 | 0.73 | |
| C-S, D-1, H-1 | C-T, E-1 | 1.12 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 1.70 | Curb Inlet | 14" RCP | 97.55 | 1.59 | 18 | 17.27 | 1.77 | 9.77 | 3.80 | 0.69 |
| C-S, D-1, H-1 | C-T, E-1 | 7.21 | 0.66 | 0.8 | 0.67 | 0.31 | 0.62 | 32.43 | 36 | Curb Inlet | 34" RCP | 250.68 | 2.79 | 36 | 145.22 | 7.07 | 20.54 | 13.67 | 0.95 |
| C-T, I-1 | C-6 | 8.45 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 3.45 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.14 | 1.05 |
| C-4 | C-5, F-1 | 8.75 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 3.45 | Curb Inlet | 34" RCP | 156.68 | 2.23 | 36 | 129.83 | 7.07 | 18.37 | 13.22 | 1.07 |
| C-S, T-1 | C-4 | 0.21 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 7.35 | 1.02 | Curb Inlet | 42" RCP | 45.32 | 1.66 | 42 | 106.54 | 9.62 | 11.07 | 8.50 | 0.88 |
| C-4 | C-3 | 0.31 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.67 | Curb Inlet | 42" RCP | 45.32 | 1.66 | 42 | 106.54 | 9.62 | 11.07 | 9.90 | 0.88 |
| C-3 | C-2 | 0.40 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.67 | Curb Inlet | 42" RCP | 35.25 | 0.57 | 42 | 99.01 | 9.62 | 10.29 | 8.13 | 0.89 |
| C-1 | C-2 | 10.11 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Curb Inlet | 42" RCP | 157.63 | 0.51 | 48 | 133.72 | 12.57 | 10.64 | 7.87 | 0.79 |
| C-1 | C-2 | 0.00 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Curb Inlet | 42" RCP | 284.05 | 0.46 | 48 | 126.87 | 12.57 | 10.70 | 7.57 | 0.79 |
| G-S, I-1 | G-4 | 3.14 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.14 | 1.05 |
| G-4 | G-3 | 3.45 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.14 | 1.05 |
| G-3 | G-2 | 3.99 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.14 | 1.05 |
| G-1 | G-2 | 4.04 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Curb Inlet | 34" RCP | 153.32 | 3.77 | 36 | 168.81 | 7.07 | 23.88 | 12.88 | 0.76 |
| G-0 | G-1 | 4.04 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 6.74 | 0.53 | Junction Box | 34" RCP | 42.50 | 0.70 | 42 | 109.84 | 9.62 | 11.42 | 6.97 | 0.71 |
| A-1 | A-2 | 1.24 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 7.35 | 0.01 | Curb Inlet | 34" RCP | 43.50 | 0.58 | 15 | 6.41 | 1.23 | 5.23 | 4.90 | 1.40 |
| A-1 | A-2 | 0.62 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 7.35 | 0.01 | Curb Inlet | 34" RCP | 43.50 | 0.58 | 15 | 6.41 | 1.23 | 5.23 | 4.90 | 1.40 |
| A-1 | A-1 | 0.88 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 7.35 | 0.01 | Curb Inlet | 34" RCP | 43.50 | 0.58 | 15 | 6.41 | 1.23 | 5.23 | 4.90 | 1.40 |
| A-1 | A-1 | 0.50 | 0.66 | 0.8 | 0.50 | 0.00 | 0.06 | 7.35 | 0.01 | Curb Inlet | 34" RCP | 106.90 | 1.81 | 18 | 18.44 | 1.77 | 10.44 | 5.99 | 0.72 |
| PIPE DESIGN | | | | | | | | | | | | | | | | | | | |
| STRUCTURES | | | | | | | | | | | | | | | | | | | |

| STORM SEWERPIPE AND STRUCTURE TABLE | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------|---------------------|--------------------|-----|-----------|----------|-----------------|--------------------|----------------|-------------|--------------------|----------------|---------------|--------------|-------------------|--------------|----------------|-------|------|
| RUNOFF CALCULATIONS | | | | | | | | | | | | | | | | | | | |
| FROM | TO | DIRECT AREA (ACRES) | TOTAL AREA (ACRES) | C | KC (H-10) | Tc (MIN) | FLOW TIME (MIN) | INTENSITY (IN/HRS) | DESIGN Q (CFS) | DESCRIPTION | PIPE LENGTH (L.F.) | PIPE SLOPE (%) | PIPE DIA (IN) | Q FULL (CFS) | PIPE AREA (SF FT) | V FULL (F/S) | DESIGN V (F/S) | HwD | |
| H-1 | C-B, D-1, H-1 | 1.51 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 7.43 | First Inlet | 24" HDPE | 127.25 | 3.54 | 24 | 55.45 | 3.14 | 7.65 | 11.91 | 1.02 |
| D-1 | C-B, D-1, H-1 | 0.42 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 1.50 | Curb Inlet | 24" HDPE | 34.21 | 1.77 | 24 | 31.90 | 3.14 | 10.15 | 8.24 | 1.17 |
| E-1 | C-B, D-1, H-1 | 0.53 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 1.50 | Curb Inlet | 34/TS | 34.75 | 0.83 | 24 | 97.00 | 9.62 | 11.90 | 9.67 | 0.83 |
| F-2 | C-S, F-1 | 0.35 | 0.66 | 0.8 | 0.50 | 0.00 | 0.05 | 7.35 | 2.98 | Curb Inlet | 127.25 | 2.00 | 24 | 19.38 | 1.77 | 10.97 | 7.94 | 0.86 | |
| C-S, D-1, H-1 | C-T, E-1 | 1.12 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 97.55 | 1.59 | 18 | 17.27 | 1.77 | 9.77 | 10.56 | 1.04 |
| C-T, I-1 | C-6 | 0.71 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.13 | 1.03 |
| C-6 | C-5, F-1 | 0.21 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 156.68 | 2.23 | 36 | 129.83 | 7.07 | 18.37 | 15.18 | 1.91 |
| C-S, T-1 | C-4 | 0.40 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 42" RCP | 45.32 | 1.66 | 42 | 106.54 | 9.62 | 11.07 | 9.67 | 1.91 |
| C-4 | C-3 | 0.71 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 42" RCP | 35.25 | 0.57 | 42 | 99.01 | 9.62 | 10.29 | 9.00 | 1.37 |
| C-3 | C-2 | 0.40 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 42" RCP | 157.63 | 0.51 | 48 | 133.72 | 12.57 | 10.64 | 8.99 | 1.06 |
| C-1 | C-2 | 0.00 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 42" RCP | 284.05 | 0.46 | 48 | 126.87 | 12.57 | 10.61 | 8.66 | 1.04 |
| G-4 | G-3 | 0.31 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.13 | 1.03 |
| G-3 | G-2 | 0.21 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.13 | 1.03 |
| G-2 | G-1 | 0.40 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 35.75 | 1.12 | 36 | 92.01 | 7.07 | 13.02 | 10.13 | 1.03 |
| G-1 | G-0 | 0.00 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 153.32 | 3.77 | 36 | 168.81 | 7.07 | 23.88 | 15.13 | 1.94 |
| A-1 | A-2 | 1.24 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 42.50 | 0.70 | 42 | 109.84 | 9.62 | 11.42 | 8.13 | 0.79 |
| A-1 | A-2 | 0.62 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 43.00 | 0.58 | 15 | 6.41 | 1.23 | 5.27 | 8.61 | 1.03 |
| A-1 | A-1 | 1.88 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 43.00 | 0.58 | 15 | 6.41 | 1.23 | 5.27 | 8.61 | 1.03 |
| A-1 | A-1 | 0.50 | 0.66 | 0.8 | 0.67 | 0.31 | 0.05 | 7.35 | 1.70 | Curb Inlet | 34" RCP | 106.90 | 1.81 | 18 | 18.44 | 1.77 | 10.44 | 7.02 | 0.82 |
| PIPE DESIGN | | | | | | | | | | | | | | | | | | | |
| STRUCTURES | | | | | | | | | | | | | | | | | | | |

| Slope # | Inlet | AreaNumber | Area (Acres) | Street Slope (ft/ft) | Max Gutter Flow | Gutter Flow, cfs(+bypass) Q-10 yr | Gutter Spread (ft) Q-100 yr | Cross Slope (%) | 10 yr | 100 yr | Inlet Length (ft) | Curb Type (A or B) | Inlet Intercept | 10-Year | 100-Year | Inlet Bypass |
|---------|--------------|------------|--------------|----------------------|-----------------|-----------------------------------|-----------------------------|-----------------|-------|--------|-------------------|--------------------|-----------------|---------|----------|--------------|
| 1 | A-3 (W) | 1 | 0.07 | 2.18 | 5.84 | 0.34 | 0.60 | 2 | 3.97 | 4.90 | 5 | A | 0.33 | 0.56 | 0.01 | 0.03 |
| 2 | A-3 (E) | 2 | 1.17 | 6.16 | 9.81 | 5.68 | 9.96 | 2 | 9.40 | 11.60 | 5 | A | 1.96 | 2.08 | 3.71 | 7.88 |
| - | A-3 (low pt) | 2 | | | | | | | | | | | | | | |

PRE-CAST END SECTION DETAILS – STORM LINE A & STORM LINE A1

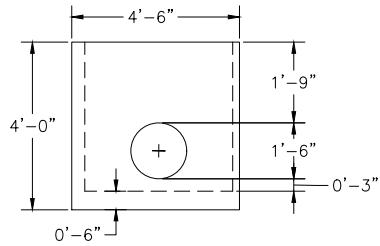


RECORD DRAWING

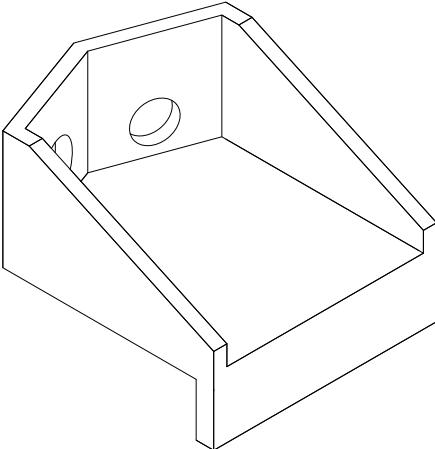
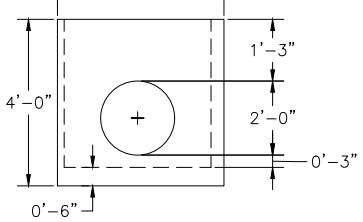
NOVEMBER 2022

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FACE A – 18" RCP (STM LINE A1)



FACE B – 24" HDPE (STM LINE A)



NOT AS-BUILT

NOVEMBER 2022

Record Drawing

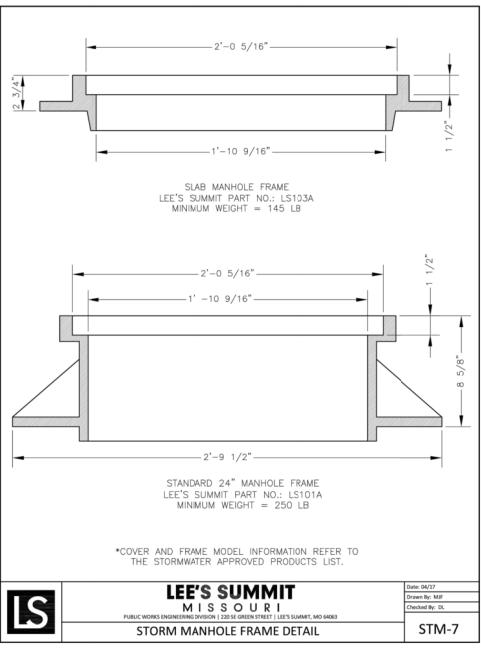
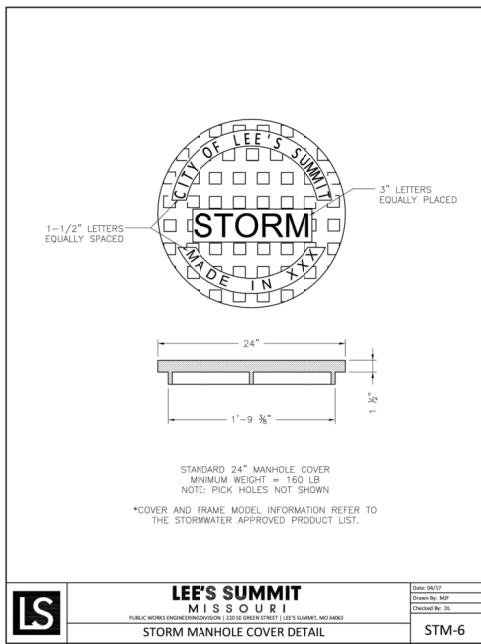
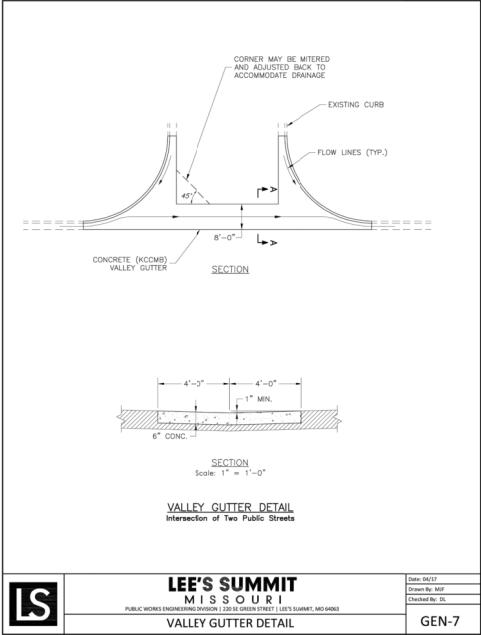
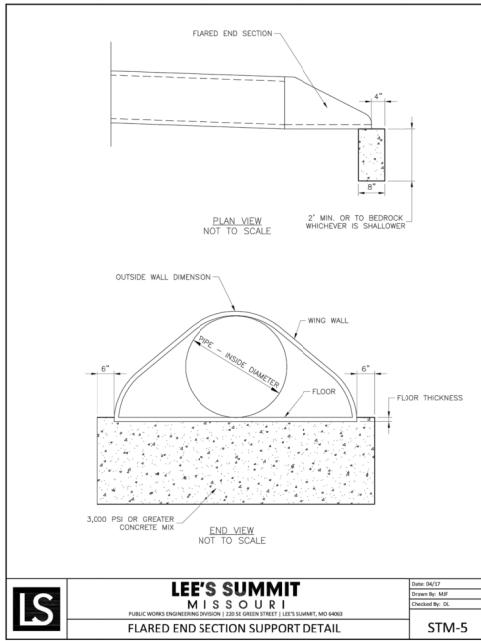
NOTE
SHOP DRAWINGS SHALL BE
SUBMITTED TO DESIGN ENGINEER
FOR APPROVAL.

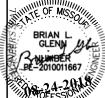
WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
STRUCTURE A-1 DETAILS

**PHOENIX ENGINEERING
& SURVEYING, LLC**

DESIGNED
BY
DRAWN
BY
SCALE
NOTED
DATE
09-01-2017
JOB NO.
04078
SHEET
35 OF 40

REVISION
B
11/14/2022
STATE OF MISSOURI
BRIAN L. GLEN
NUMBER 20100167
BRIAN L. GLEN
MO PE 20100167
PHOENIX ENGINEERING
& SURVEYING, LLC
18-34-2014
RECEIVED
RECORDED
SEARCHED
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SERIALIZED
FILED
NOV 14 2022
KSE-853
KS-200015102-D
ENGINEERING CERTIFICATE NO:
MO-200015102-D
SURVEYING CERTIFICATE NO:
MO LS-200015103-D
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BRIAN L. GLENN
PE. #2010011667
MO PE #200015102-D
PHOENIX ENGINEERING
& SURVEYING, LLC

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**PHOENIX ENGINEERING
& SURVEYING, LLC**
RECORD DRAWING NO. 040782-0001
SHEET 7 OF 10
ENGINEERING CERTIFICATE NO. 8010744-0700
SURVEYING CERTIFICATE NO. MO LS-200015102-D
MO LS-200015103-D
KSC-E-853
KSC-LS-139

WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS

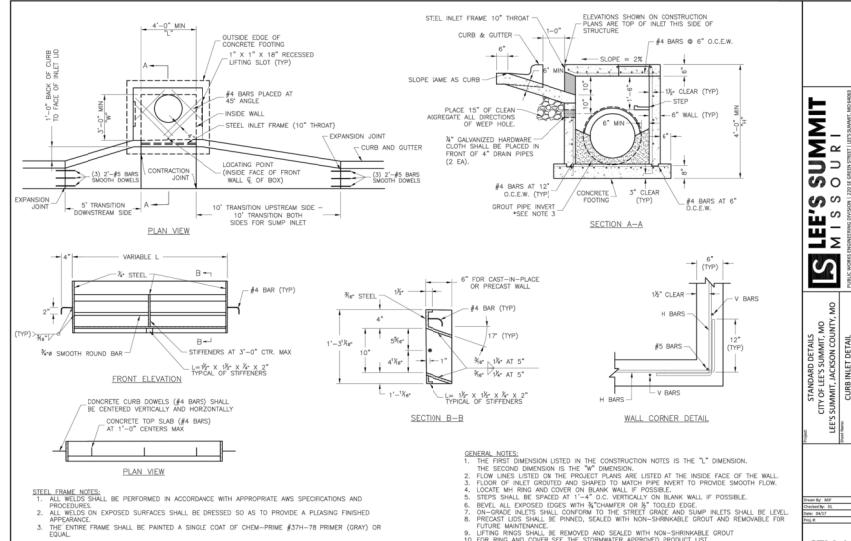
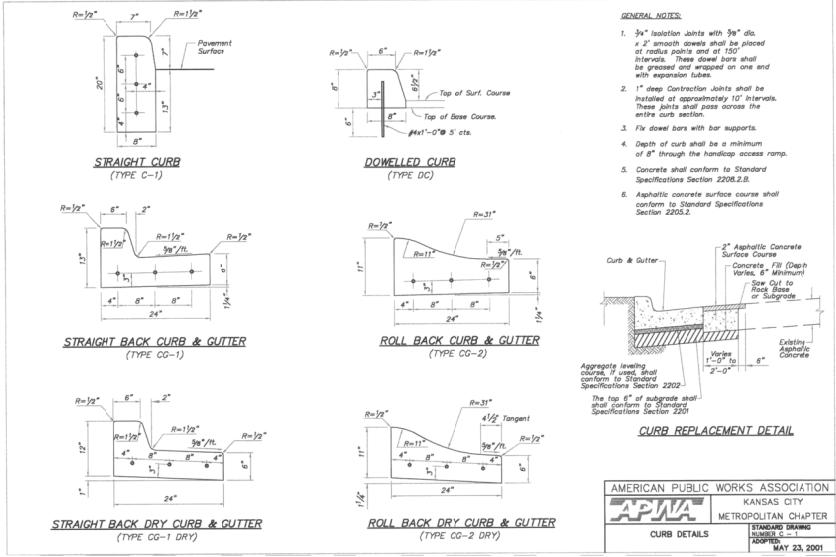
RECORD DRAWING
NOVEMBER 2022

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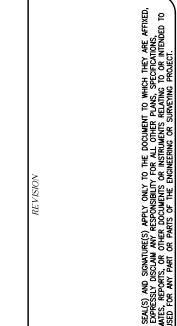
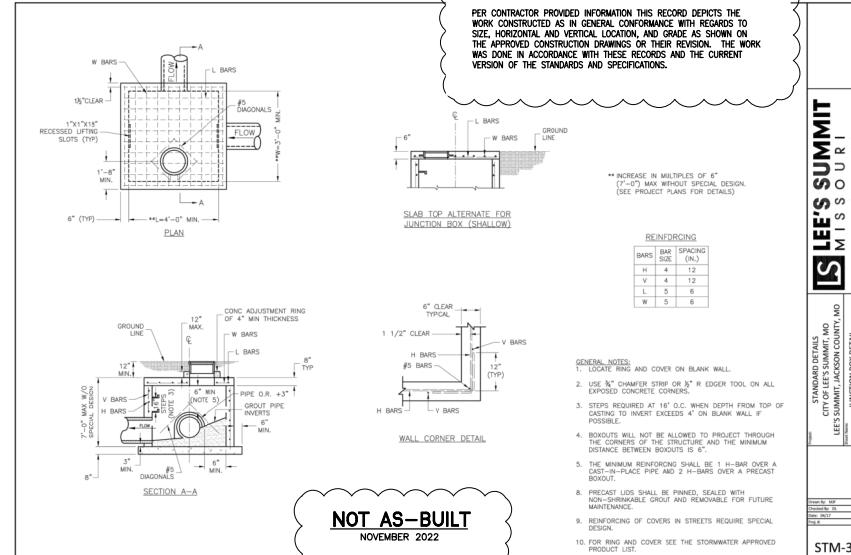
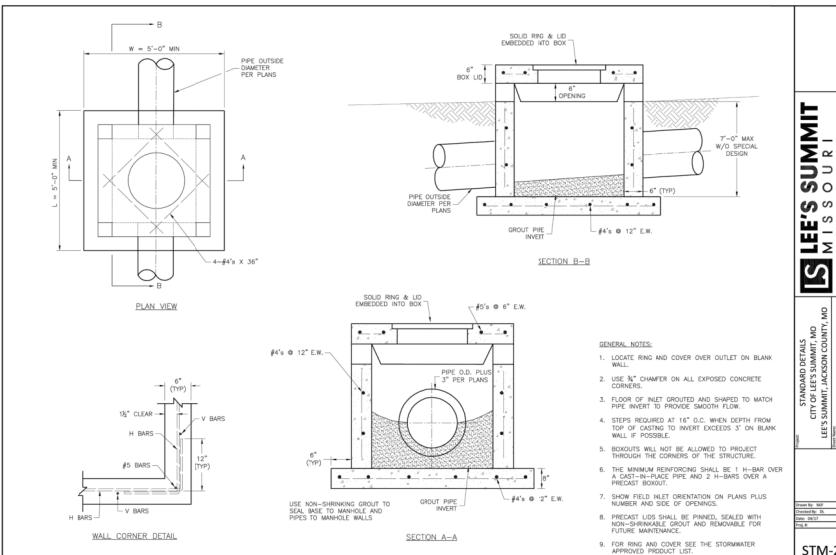
NOT AS-BUILT
NOVEMBER 2022

Record Drawing

DESIGNED BY:
DRAWN BY:
CHECKED BY:
DATE:
09-01-2017
J.D.
04078
SHEET 36 OF 40
PHOENIX ENGINEERING & SURVEYING, LLC - 2016



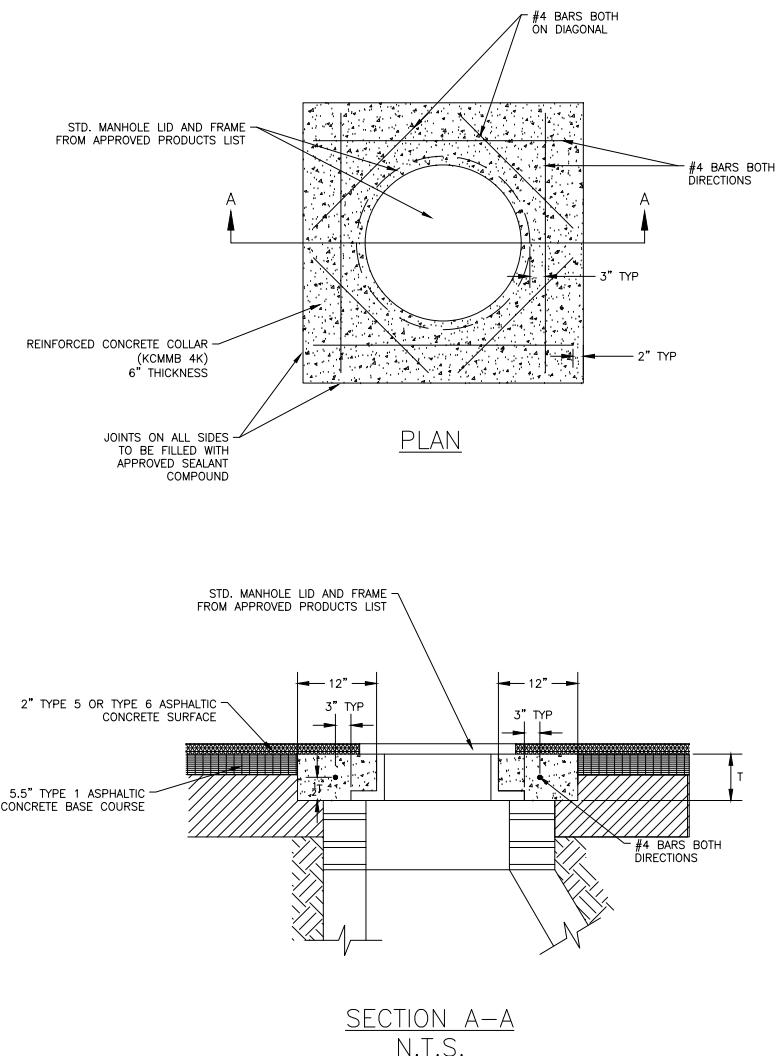
Record Drawing



PHOENIX
ENGINEERING
&
SURVEYING, LLC

LEEE'S SUMMIT,
JACKSON COUNTY, MO
STREET & STORM SEWER PLANS

DESIGNED
BY
DRAWN
BY
SCALE
NOTED
DATE
09-01-2017
40478
SHEET
37 OF 40



CONCRETE MANHOLE COLLAR

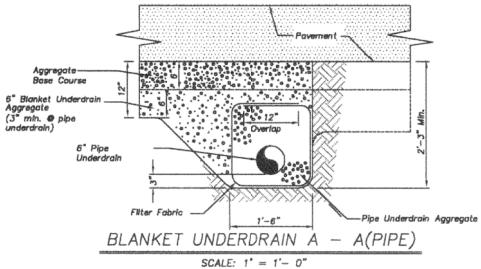
GENERAL NOTES
1. ADJUST MANHOLE FRAME AND COVER TO FINISH GRADE AND SLOPE WITH CONCRETE ADJUSTMENT RINGS AND LEVELING MORTAR AS NECESSARY
2. THE ORIENTATION OF THE REINFORCED CONCRETE COLLAR SHALL BE DETERMINED BY THE ENGINEER OR INSPECTOR IN THE FIELD.

Record Drawing

NOT AS-BUILT
NOVEMBER 2022

ORD DRAWING
NOVEMBER 2022

PER CONTRACTOR PROVIDED INFORMATION THIS RECORD DEPICTS THE WORK CONSTRUCTED AS IN GENERAL CONFORMANCE WITH REGARDS TO SIZE, HORIZONTAL AND VERTICAL LOCATION, AND GRADE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS OR THEIR REVISION. THE WORK WAS DONE IN ACCORDANCE WITH THESE RECORDS AND THE CURRENT VERSION OF THE STANDARDS AND SPECIFICATIONS.

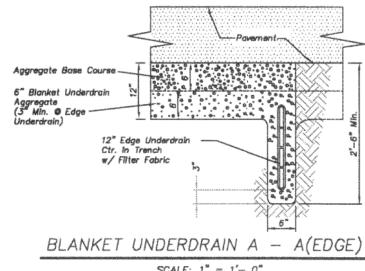


RECORD DRAWING

NOVEMBER 2022

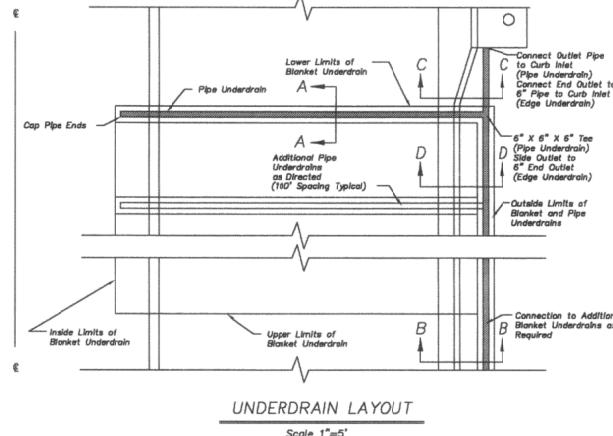
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Record Drawing



NOT AS-BUILT

NOVEMBER 2022



UNDERDRAIN LAYOUT

Scale 1"-5"

Underdrain Notes:

- All roadway excavation in rock will be undercut no less than 15° for the full width of the roadway as shown.
- In areas where underdrains are not required, undercut and overhangage in limestone and shale shall be brought to within 12" of the top of the grade line, or previously compacted crushed stone, shot rock, and/or rock rubble. The remaining 6" shall conform to Standard Specifications Section 2202.
- Layers of earth or shale shall not be permitted for backfill up to the bottom of the crushed stone.
- A minimum of 12" of select sand (gravel) shall be placed on exposed rock slopes. Slopes shall be limited by the limits of the roadway. All rock and shale slopes shall be berched @ maximum 2' vertical intervals prior to placement of select soil.
- Proposed underdrain pipe layout, baseline elevations, inlet connection points, and details shall be approved prior to construction by the City Engineer.
- Where pipe underdrains are used, all underdrain outlet pipes shall be solid wall with watertight joints. All outlet pipes shall be tied into the nearest storm sewer inlet as approved. Where edge underdrains are used, all outlet pipes shall be solid wall with watertight joints approved by the City Engineer. All connections between pipes and edge connectors or curb inlets shall be made with 2' minimum length of pipe.
- All underdrain pipes shall be installed at a minimum slope of 1%. Underdrain pipe shall be installed with the perforations placed down.
- Blanket underdrains shall be placed on bedrock unless otherwise directed by the City Engineer. Undercut and overbreakage in limestone and shale shall be brought to within 12" of the subgrade line and previously compacted crushed stone, shot rock and/or rock rubble.
- All filter fabric used for pipe underdrain construction shall conform to Standard Specifications Section 2203.6
- The Contractor may, at his option, use either pipe underdrain or edge underdrain, but shall not mix underdrain types within any underdrain system.
- All edge underdrain shall be laid in the center of the trench by mechanical methods while placing granular backfill. See detail this sheet. Alternate methods may be used with prior approval by the City Engineer.
- Blanket underdrain aggregate, pipe underdrain aggregate, pipe underdrain, edge underdrain and outlet pipe shall conform to Standard Specifications Section 2203.6

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
METROPOLITAN CHAPTER

UNDERDRAIN DETAILS

STANDARD DRAWING UD-1

ADOPTED: MAY 23, 2001

WHISPERING WOODS

LEE'S SUMMIT, JACKSON COUNTY, MO
STREET & STORM SEWER PLANS
UNDERDRAIN DETAILS

PHOENIX ENGINEERING
& SURVEYING, LLC

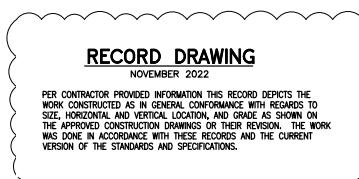
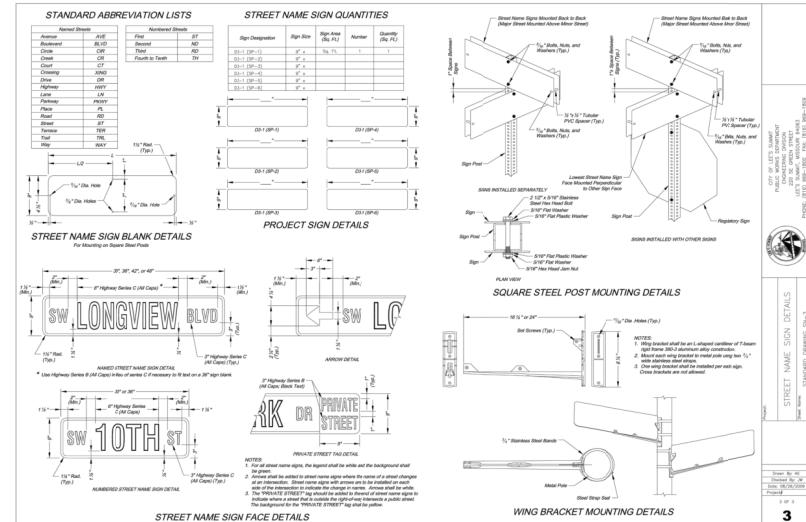
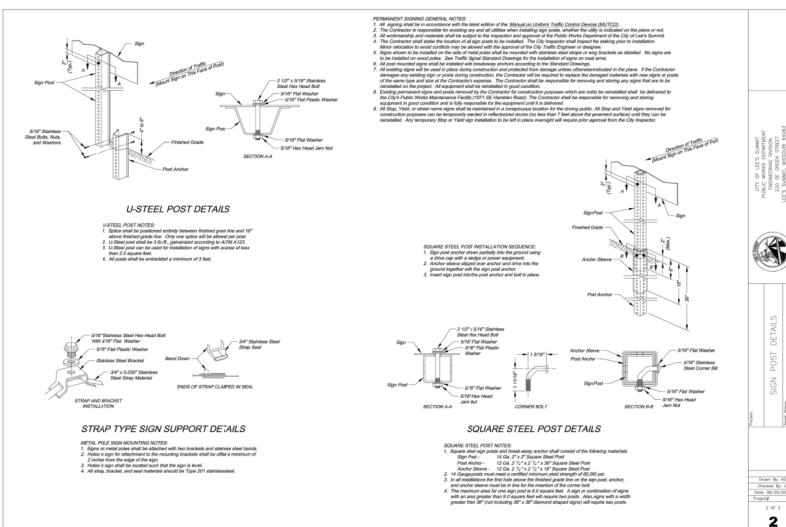
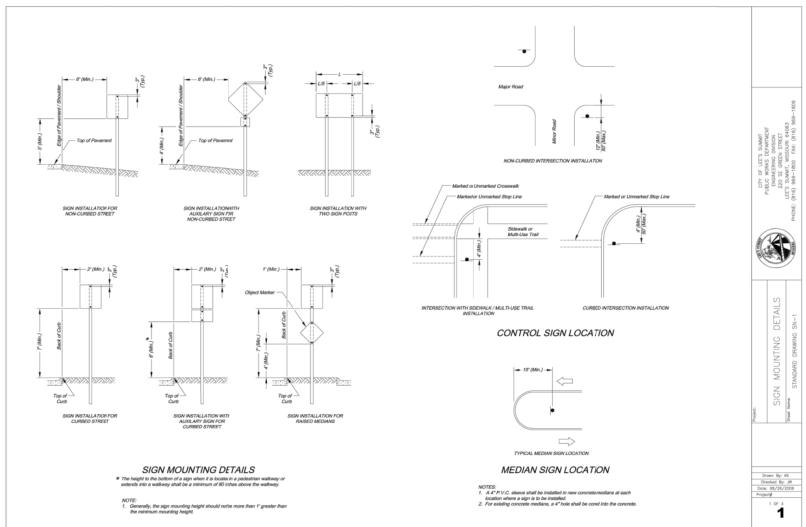
REVISION



STATE OF MISSOURI
BRIAN L. GLENN
PE 2010011667
NO 200015102-D
PHOENIX ENGINEERING
& SURVEYING, LLC

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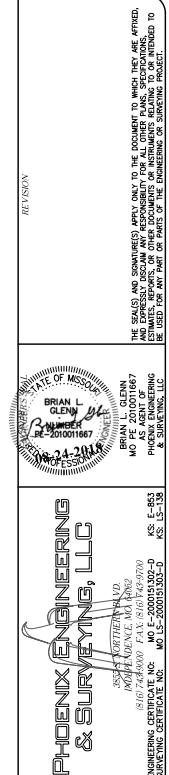


Record Drawing

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NOT AS-BUILT
NOVEMBER 2022



WHISPERING WOODS
LEE'S SUMMIT, JACKSON COUNTY
STREET & STORM SEWER
STRIPING PLAN DETAIL

| |
|-------------------|
| DESIGNED |
| BLG |
| DRAWN |
| JRT |
| SCALE |
| Noted |
| DATE |
| 09-01-2017 |
| JOB NO. |
| 04078 |
| SHEET |
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| of |
| 40 |