

SOUTH ACCESS ROAD
2024 A.A.D.T.=500-1000
2044 A.A.D.T.=500-1000
EXIST. POSTED V = N/A
PROP. POSTED V = 25MPH
PROP. DESIGN V = 25MPH

FUNCTIONAL
CLASSIFICATION = LOCAL ROAD

NORMAL ACCESS RIGHT OF WAY
IS TO BE ACQUIRED
FOR THIS PROJECT.

AASHTO, "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS," 7TH EDITION, 2018

AASHTO, "HIGHWAY SAFETY MANUAL," 1ST EDITION, 2010

MODOT ENGINEERING POLICY GUIDE

FHWA, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," 11TH EDITION

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TIMOTHY.DUBOIS@ LUMEN.COM
RELOCATIONS@ LUMEN.COM
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PWSD #12: BRAD BRYANT
BRAD.BRYANT@ PWS12.COM
(C) 636-937-9697

CITY OF
CRYSTAL CITY
(WATER/SEWER): DAVE PERRY
DPERRY6868@ YAHOO.COM
(C) 636-232-5239

CITY OF
FESTUS WATER: MARK HARRIS
MARK@ CITYOFFESTUS.ORG
(C) 636-937-6646

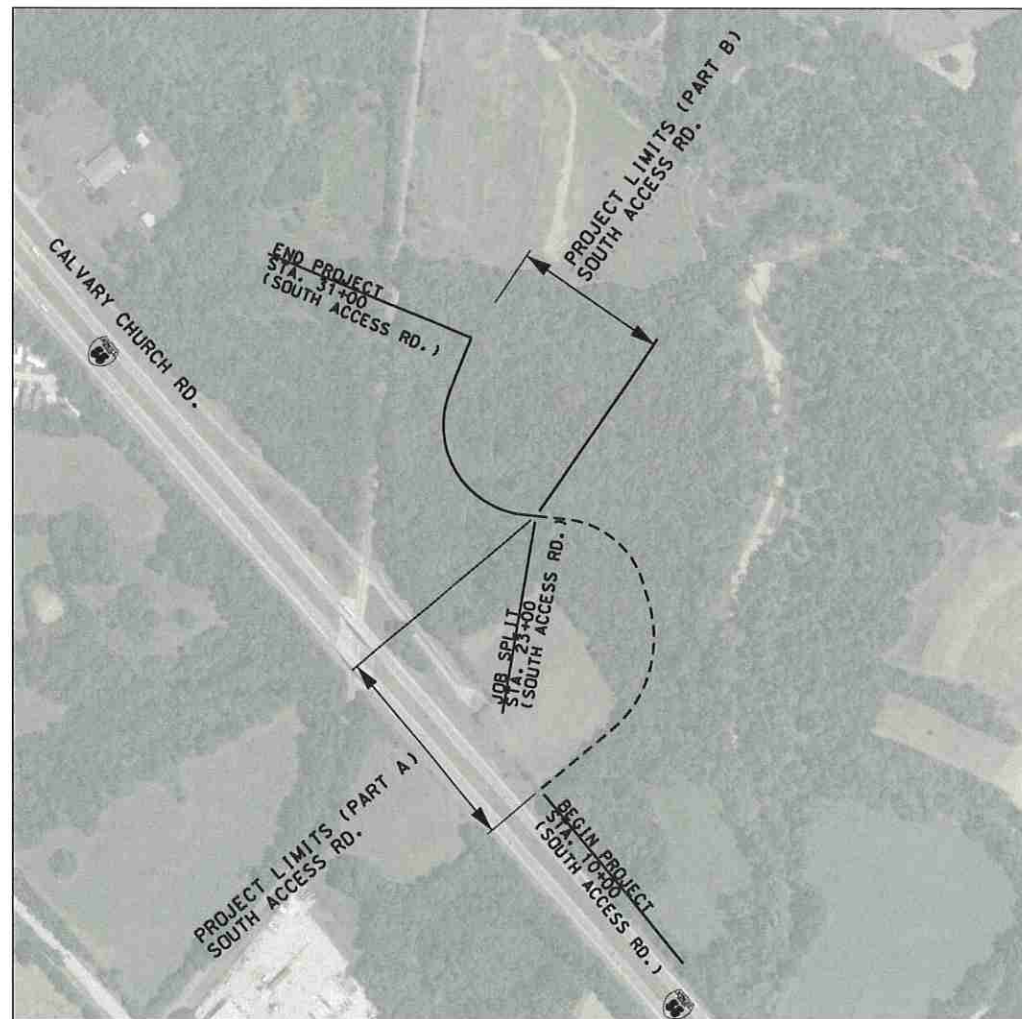
CITY OF
FESTUS SEWER: MATT UNREIN
MATT.UNREIN@ CITYOFFESTUS.ORG
(C) 636-937-6646

AMEREN: MATT EVERDING
MEVERDING@ AMEREN.COM
(C) 618-806-0229

ATT-D: CHRIS LAPORTE
CL180R@ ATT.COM
(C) 636-671-2887

CHARTER: DON HATFIELD
DONALD.HATFIELD@ CHARTER.COM
(C) 314-341-4450

JEFFERSON COUNTY PROJECT
MODOT PROJECT NO. SNS-0025
CRYSTAL CITY, JEFFERSON COUNTY, MISSOURI
JASON JONAS, P.E., P.M.P.
DIRECTOR OF PUBLIC WORKS



NOT TO SCALE



DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THEY SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS

MISSOURI ONE CALL: 1-800-DIG-RITE (1-800-344-7483)

APPROVED BY:
JEFFERSON COUNTY, MISSOURI

DAN NAUNHEIM
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE _____

DESCRIPTION	NUMBER
TITLE SHEET -----	1
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DATE PREPARED	
10/16/2024	
STATE	SHEET NO.
MO	1
COUNTY	
JEFFERSON	
JOB NO.	
SNS-0025	

DESCRIPTION

DATE _____

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

MAPLE STREET ANNEX
725 MAPLE STREET
HILLSBORO, MO 63050
(636) 797-5340
WWW.JEFCO.ORG



BEGINNING OF PROJECT (S. ACCESS RD.)	STA. 23+00
END OF PROJECT (SOUTH ACCESS RD)	STA. 31+00
SOUTH ACCESS ROAD LENGTH	800 FEET

TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	800	FEET
STATE LENGTH	0.15	MILES

HORNER
SHIFRIN

101 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-5866
WWW.HORNERSHIFRIN.COM

DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 0007159
EXPIRATION DATE: DECEMBER 31, 2026

TITLE SHEET

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

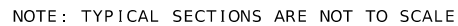
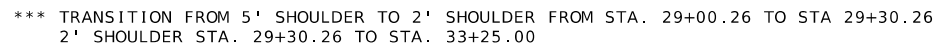
REV.

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TYPICAL SECTIONS &
GENERAL NOTES

SHEET 1 OF 2

PROJECT REDBIRD
SOUTH IMPROVEMENTS
(PHASE 2)



SOUTH ACCESS ROAD

GENERAL NOTES:

1. ALL ROAD CONSTRUCTION TO BE IN ACCORDANCE WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2023 EDITION
2. PROPERTY LINES, EASEMENTS, AND TOPOGRAPHIC SURVEY BY PRAIRIE ENGINEERS, P.C.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THEY HAVE THE LATEST SET OF IMPROVEMENT PLANS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING ALL PERMIT PLAN SETS AND ANY SUBSEQUENT PLAN ISSUANCES.
4. ALL WORK MUST BE PERFORMED WITHIN EXISTING OR ACQUIRED EASEMENTS. AGENCY APPROVAL OF THESE PLANS DOES NOT AUTHORIZE OR CONDONE WORK OUTSIDE OF THE EASEMENTS. CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.
5. COMPACT TOP 12" OF SUBGRADE AND EACH LAYER OF BACKFILL OR BACKFILL MATERIAL AT 90% MODIFIED PROCTOR (A.S.T.M. D1557) MAXIMUM DENSITY FOR COHESIVE MATERIAL OR 70% RELATIVE DENSITY (A.S.T.M. D4253 AND A.S.T.M. D4254) FOR COHESIVE MATERIAL.
6. REMOVE ALL WASTE MATERIALS, INCLUDING EXCAVATED MATERIAL, CONCRETE STORM SEWER, TRASH AND DEBRIS, AND DISPOSE OF IT OFF OWNERS PROPERTY. ANY STAGING OR STORAGE OF MATERIALS OFF PUBLIC RIGHT-OF-WAY SHALL BE APPROVED BY JEFFERSON COUNTY.
7. CONTRACTOR SHALL REMOVE, STORE, & REINSTATE AT THE COMPLETION OF CONSTRUCTION ALL MAILBOXES, FENCES, AND SIGNS AFFECTED BY CONSTRUCTION AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. ANY DISTURBED OFF SITE PROPERTY (I.E. BUSHES, TREES, FENCES, MAILBOXES, ETC.) SHALL BE REPLACED IN-KIND, AT THE CONTRACTOR'S EXPENSE. COUNTY SHALL PROVIDE TEMPORARY MAIL SERVICE FACILITIES FOR ALL RESIDENTS.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL FEATURES IN ACCORDANCE WITH ANY LOCAL, STATE, AND FEDERAL REGULATIONS AND OBTAIN ANY NECESSARY PERMITS FOR LAND DISTURBANCE, THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN TO THE COUNTY DIRECTOR OF PUBLIC WORKS FOR REVIEW PRIOR TO THE START OF CONSTRUCTION. EROSION CONTROL FEATURES SHALL BE ADEQUATE TO STOP ERODED MATERIAL FROM LEAVING THE SITE. SILTATION CONTROL DEVICES SHALL BE MAINTAINED BE THE CONTRACTOR DURING GRADING OPERATIONS AND UNTIL SUFFICIENT VEGETATION IS ESTABLISHED TO PREVENT EROSION. TEMPORARY SILTATION DEVICES SHALL BE REMOVED UPON COMPLETION OF RE-VEGETATION.
9. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS WERE COMPILED FROM THE BEST AVAILABLE RECORDS. UTILITY BURIED DEPTHS HAVE NOT BEEN POTHOLDED OR OTHERWISE VERIFIED AND SHALL BE CONSIDERED APPROXIMATE ON ALL PROFILES OR SECTIONS. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO ESTABLISH EXACT LOCATIONS, DEPTHS, AND POSSIBLE RELOCATION OF THE MAINS PRIOR TO CONSTRUCTION AND SHALL FULLY COMPLY WITH THE PROVISIONS OF THE UNDERGROUND FACILITY SAFETY AND DAMAGE PROVISIONS ACT, CHAPTER 319 RSMO. ALL UTILITIES, EITHER SHOWN OR NOT SHOWN, IN DIRECT CONFLICT WITH THIS CONSTRUCTION SHALL BE RELOCATED BY OTHERS (RESPECTIVE UTILITY COMPANY). CONTRACTOR SHALL COORDINATE THE WORK WITH EACH UTILITY COMPANY AFFECTED.
10. THE CONTRACTOR SHALL KEEP ALL PAVEMENTS CLEAN AND FREE OF MUD, ROCK, AND DEBRIS AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL NOTIFY EACH AFFECTED PROPERTY OWNER A MINIMUM OF 24 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
12. CONTRACTOR TO PROVIDE COMPACTED GRANULAR BACKFILL TO THE SUBGRADE OF THE PAVEMENT FOR ALL TRENCHES UNDER PAVEMENT. ALL OTHER TRENCHES WITHIN RIGHT-OF-WAY SHALL BE BACKFILLED WITH COMPACTED GRANULAR BACKFILL TO WITHIN TWO(2') FEET OF FINISHED GRADE. TOP TWO(2') FEET OF THE TRENCH SHALL BE BACKFILLED WITH COMPACTED EARTHFILL. ALL OTHER TRENCHES OUTSIDE OF RIGHT-OF-WAY SHALL BE BACKFILLED WITH COMPACTED EARTHFILL, UNLESS OTHERWISE SHOWN ON PLANS.
13. CONTRACTOR SHALL ADJUST TO GRADE ALL WATER METER VAULTS, STOP BOX LIDS, METER LIDS, AND WATER VALVE BOXES.
14. PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.
15. INTERIM STORM SEWER WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES IS REQUIRED.
16. STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
17. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
18. CONTRACTOR SHALL SEED ANY NON-PAVED AREAS DISTURBED BY CONSTRUCTION.
19. CONTRACTOR MUST MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. EXISTING COMMERCIAL ENTRANCES MAY HAVE ACCESS RESTRICTED TO ½ OF THE ENTRANCE AT A TIME, UNLESS OTHERWISE APPROVED IN THIS PLAN SET. IF TEMPORARY CLOSURES OF DRIVEWAYS ARE REQUIRED, 24 HOURS NOTICE SHALL BE PROVIDED TO THE COUNTY.
20. ANY FILL REQUIRED SHALL BE CLEAN AND FREE OF ANY DEBRIS OR CONSTRUCTION MATERIAL.
21. CARE SHALL BE TAKEN TO AVOID DISTURBING ANY PROPERTY MARKERS ENCOUNTERED DURING CONSTRUCTION. ANY PROPERTY MARKERS REMOVED TO ALLOW FOR GRADING, SHALL BE REPLACED. NO DIRECT PAY FOR THIS WORK.
22. CONTRACTOR SHALL NOT STORE CONSTRUCTION MATERIAL ON ANY PROPERTY WITHOUT PRIOR WRITTEN CONSENT FROM PROPERTY OWNER.

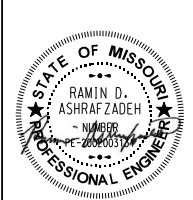
LEGEND

EXISTING ROADWAY EASEMENT	—————
EXISTING RIGHT-OF-WAY	—————
SAWCUT LINE	-----
PROPOSED RIGHT-OF-WAY	—————
PROPERTY LINE	———P———
FENCE	———X———
EXISTING CABLE TV LINE	———UTV———
PROPOSED POWER/CABLE TV LINE	———UTV———
TELEPHONE LINE	———UT———
OVERHEAD POWER LINE	———OE———
UNDERGROUND POWER LINE	———UE———
PROPOSED UNDERGROUND POWER LINE	———UE———
FIBER LINE	———FO———
GAS LINE	———G———
WATERMAIN	———W———
EXIST. GUARDRAIL	oooooooo
GATE VALVE WITH VALVE BOX.	⌵
FIRE HYDRANT ASSEMBLY	⦿
MJ PLUG WITH THRUST BLOCK	⌊
EXIST. VEGETATION	⊛
EXIST. SANITARY SEWER MANHOLE	SAN ⊕
EXIST. STORM SEWER MANHOLE	⊕ STORM
ELECTRICAL MANHOLE	⊕ ELEC MH
ELECTRICAL METER	⊕ EM
TELEPHONE MANHOLE	⊕ TMH
GAS DISCONNECT	⦿ GD
TELEPHONE AND CABLE	○ T&C
FIRE HYDRANT	⦿ HYD
SPRINKLER HEAD	⦿
WATER SPIGOT	⦿
IRRIGATION CONTROL VALVE	○ ICV
WATER VALVE	⦿ BV
WATER METER	⊕ WM
GAS VALVE	⦿ GV
GAS METER	⦿ GM
POWER SUPPLY	⊗ MDOOT
EXISTING POWER POLE	□ PP
POWER POLE	■
TELEPHONE POLE	○ TELE POLE
GUY WIRE	✕
GUY WIRE	○ GUY
POWER AND LIGHT	⊠ PAL
TELEPHONE PEDESTAL	△ PED
MAILBOX	⌋
PROPOSED 6" ROAD	———+———
SIGN	⌋
TRAFFIC MOVEMENT	←
ADJUST TO GRADE	(ATG)
TO BE REMOVED	(R)
TO BE REMOVED AND REPLACED	(R&R)
TO BE RELOCATED	(RELOC.)
USE IN PLACE	(UIP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED BY OTHERS	(TBRBO)
TO BE REMOVED AND REPLACED BY OTHERS	(TBR&RBO)
REMOVED BY OTHERS	(RBO)
REMOVED AND RELOCATED	(R&RELOC.)
TYPICAL	(TYP.)
CURB AND GUTTER	(C&G)
SLOPE LIMITS	SLC/SLF
EXISTING HOUSE	H
EXISTING BUILDING	B
PERMANENT SIDEWALK AND UTILITY EASEMENT	P.S.U.E.
PERMANENT UTILITY EASEMENT	P.U.E.
TEMPORARY CONSTRUCTION EASEMENT	T.C.E.
CONCRETE	CONC.
PROFILE GRADE LINE	PGL
AGGREGATE	AGG
ASPHALT	ASPH

TREE PROTECTION:

1. Clearing limits shall be rough staked or marked by the contractor's surveyor in order to facilitate location for trenching and fencing installation.
2. No clearing or grading shall begin in areas where tree treatment, preservation, and protection measures have not yet been completed.
3. Contractor shall provide an early maintenance schedule (i.e., pruning, injection fertilizing, etc.).
4. Contractor shall provide the name of tree specialist and company.
5. See JSP for additional requirements.

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DATE PREPARED 10/16/2024	
STATE MO	SHEET NO. 2
COUNTY JEFFERSON	
JOB NO. SNS-0025	

DATE	DESCRIPTION								

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS
MAPLE STREET ANNEX
725 MAPLE STREET
HILLSBORO, MO 63050
(636) 797-5340
WWW.JEFFCO.ORG

HORNER & SHIFRIN

401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 - FAX 314-531-4866
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

TYPICAL SECTIONS & GENERAL NOTES	SHEET 2 OF 2	PROJECT REDBIRD NORTH IMPROVEMENTS (PHASE 2)

GENERAL DISCLAIMER

HORNER & SHIFRIN, INC. (H&S) AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN SET AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. H&S HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY DISCLAIMER

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

MOBILIZATION
LUMP SUM = 1

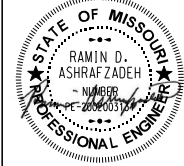
ADDITIONAL MOBILIZATION FOR SEEDING
EACH = 1

CLEARING AND GRUBBING						
PLAN SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	CLEARING AND GRUBBING (ACRE)	REMARKS
4-5	23+00.00	31+50.00	SOUTH ACCESS RD	LT	1.5	
4-5	23+00.00	31+50.00	SOUTH ACCESS RD	RT	1.1	
				SUB-TOTAL	2.6	
				TOTAL	3	

EARTHWORK										
PLAN SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	BULK * CUT (CUYD)	BULK * FILL (CUYD)	CLASS A EXCAVATION (CUYD)	EMBANKMENT IN PLACE (CUYD)	COMPACTING EMBANKMENT (CUYD)	REMARKS
4-5	23+00.00	31+00.00	SOUTH ACCESS RD	CL	8,497.5	33,354.2	8,497	26,131	7,223	15% SRINKAGE FACTOR APPLIED TO C.E. **
4-5	31+00.00	31+50.00	SOUTH ACCESS RD	CL	0	1,435	0	1,435	0	
				SUB-TOTAL	8,497.5	34,788.8	8,497.5	27,565.9	7,222.9	
				TOTALS	----	----	8,498	27,566	7,223	

* FOR INFORMATION ONLY
** COMPACTING EMBANKMENT (C.E.)

PAVEMENT							
PLAN SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) (SQYD)	CONCRETE PAVEMENT (10 IN. NON-REINFORCED, 15 FT. JOINTS) (SQYD)	REMARKS
4	23+00.00	23+43.03	SOUTH ACCESS RD	LT/RT	162.8	148.4	FULL DEPTH PAVEMENT SECTION - SHOULDER WIDTH TRANSITION
4-5	23+43.03	29+00.26	SOUTH ACCESS RD	LT/RT	2,219.0	2033.3	FULL DEPTH PAVEMENT SECTION - WIDENED INSIDE SHOULDER
5	29+00.26	29+30.26	SOUTH ACCESS RD	LT/RT	115.0	105.0	FULL DEPTH PAVEMENT SECTION - SHOULDER WIDTH TRANSITION
5	29+30.26	31+00.00	SOUTH ACCESS RD	LT/RT	622.4	565.8	FULL DEPTH PAVEMENT SECTION
				SUB-TOTAL	3,119.0	2,852.5	
				TOTALS	3,119	2,853	



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SCHEDULE OF QUANTITIES
SHEET 1 OF 2
PROJECT REDBIRD NORTH IMPROVEMENTS (PHASE 2)

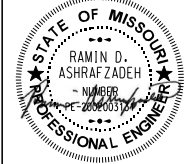
ALTERNATE B BID

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GUARDRAIL AND FENCE							
PLAN SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	MGS GUARDRAIL 8 FT. POSTS, 6 FT.-3 IN. SPACING (LF)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)	REMARKS
4	24+24.25	24+50.00	SOUTH ACCESS RD	RT		1	
4-5	24+50.00	31+50.00	SOUTH ACCESS RD	RT	700.0		
				SUB-TOTAL	700.0	1	
				TOTALS	700	1	

EROSION CONTROL															
PLAN SHEET	EROSION CONTROL SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	FURNISHING TYPE 2 ROCK DITCH LINER (CY)	PLACING TYPE 2 ROCK DITCH LINER (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	TOPSOIL (CY)	MISC. {SEEDING} (AC)	TYPE 1D EROSION CONTROL BLANKET (SY)	ROCK DITCH CHECK (LF)	SILT FENCE (LF)	SEDIMENT REMOVAL (SY)	REMARKS
5	1	23+00.00	25+70.00	SOUTH ACCESS RD	LT							42			
5	1	23+00.00	24+20.00	SOUTH ACCESS RD	RT							22			
5-6	1	23+00.00	24+50.00	SOUTH ACCESS RD	RT				49.8	0.1	448				
5-6	1-2	24+19.22	31+00.00	SOUTH ACCESS RD	RT								582	6	
5-6	1-2	23+00.00	31+00.00	SOUTH ACCESS RD	LT				699.2	1.3	6,293				
6	2	31+00.00	31+50.00	SOUTH ACCESS RD	BOTH				192.0	0.4	1,728				
5-6	1-2	24+37.39	31+50.00	SOUTH ACCESS RD	RT	858.7	858.7	2,576.1							
5-6	1-2	25+60.71	31+00.00	SOUTH ACCESS RD	LT								630	6	
6	2	31+00.00	31+50.00	SOUTH ACCESS RD	BOTH								206	2	
					SUB-TOTAL	858.7	858.7	2,576	941.0	1.75	8,469	64	1,212	12	
					TOTALS	859	859	2,576	941	1.7	8,469	64	1,212	12	

PAVEMENT MARKING									
PLAN SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION					REMARKS
					4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS (SOL) (LF) (INT) (LF)		4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS (SOL) (LF) (INT) (LF)		
13-14	23+00.00	31+00.00	SOUTH ACCESS RD	LT	824				
13-14	23+00.00	31+00.00	SOUTH ACCESS RD	RT	776				
13-14	23+00.00	31+00.00	SOUTH ACCESS RD	CL			1,600		Double Yellow CL Stripe
				SUB-TOTAL	1,600	0.0	1,600	0.0	
				TOTALS	1,600		1,600		



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SCHEDULE OF
QUANTITIES
SHEET 2 OF 2
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

ALTERNATE B BID

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

GIP/ABT, LLC
2022R-010240

SP. DITCH (LT)
@ 2.0%

CONSTRUCTION LIMITS

2' SHOULDER

AIRPORT SUBDIVISION
2022P-000188
LOT 4

SCALE
0 20 40

PR TEMP ESM'T

PR PERM ESM'T

NEW ROW

24

25

26

27

28

STA. 23+43.03

STA. 24+50.00
BEGIN MGS GUARDRAIL

25' C.E.T.

5' SHOULDER

SP. DITCH (RT)
@ 2.0%

CONSTRUCTION LIMITS

MGS GUARDRAIL, 8 FT. POSTS,
6 FT. - 3 IN. SPACING

DISCLAIMER
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AIRPORT SUBDIVISION
2022P-000188
LOT 4

MATCHLINE STA. 23+00.00
(SEE DRAWINGS BY OTHERS)

STA. 23+43.03
END SHOULDER TAPER

PI	27+44.22
PC	23+43.03
PT	29+00.26
Δ	106°25'22.8" (RT)
D	19°5'54.9"
L	557.23' (ARC)
T	401.19'
R	300.00'

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GIP/ABT, LLC
2022R-010240

SP. DITCH (LT)
@ 2.0%

SP. DITCH (RT)
@ 2.0%

CONSTRUCTION LIMITS

2' SHOULDER

5' SHOULDER

MGS GUARDRAIL, 8 FT. POSTS,
6 FT. - 3 IN. SPACING

25' C.E.T.

STA. 24+50.00
BEGIN MGS GUARDRAIL

PR TEMP ESM'T

PR PERM ESM'T

NEW ROW

NEW ROW

PR TEMP ESM'T

PR PERM ESM'T

STA. 23+43.03
END SHOULDER TAPER

STA. 23+43.03

STA. 24+50.00

STA. 28+00.00

MATCHLINE STA. 23+00.00
(SEE DRAWINGS BY OTHERS)

MATCHLINE STA. 28+00.00

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SCALE

0 20 40

AIRPORT SUBDIVISION
2022P-000188
LOT 4

AIRPORT SUBDIVISION
2022P-000188
LOT 4

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GIP/ABT, LLC
2022R-010240

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@ 2.0%

SP. DITCH (RT)
@ 2.0%

CONSTRUCTION LIMITS

2' SHOULDER

5' SHOULDER

MGS GUARDRAIL, 8 FT. POSTS,
6 FT. - 3 IN. SPACING

25' C.E.T.

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BEGIN MGS GUARDRAIL

PR TEMP ESM'T

PR PERM ESM'T

NEW ROW

NEW ROW

PR TEMP ESM'T

PR PERM ESM'T

STA. 23+43.03
END SHOULDER TAPER

STA. 23+43.03

STA. 24+50.00

STA. 28+00.00

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GIP/ABT, LLC
2022R-010240

SP. DITCH (LT)
@ 2.0%

CONSTRUCTION LIMITS

2' SHOULDER

AIRPORT SUBDIVISION
2022P-000188
LOT 4

SCALE
0 20 40

PR TEMP ESM'T

PR PERM ESM'T

NEW ROW

24

25

26

27

28

25' C.E.T.

5' SHOULDER

STA. 24+50.00
BEGIN MGS GUARDRAIL

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@ 2.0%

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AIRPORT SUBDIVISION
2022P-000188
LOT 4

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2022P-000188
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T	401.19'
R	300.00'

STATE OF MISSOURI
 RAMIN D. ASHRAFZADEH
 - NUMBER -
 200600314
 PROFESSIONAL ENGINEER

DATE PREPARED 10/16/2024	
STATE MO	SHEET NO. 3
COUNTY JEFFERSON	
JOB NO. SNS-0025	

DATE	DESCRIPTION
------	-------------

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

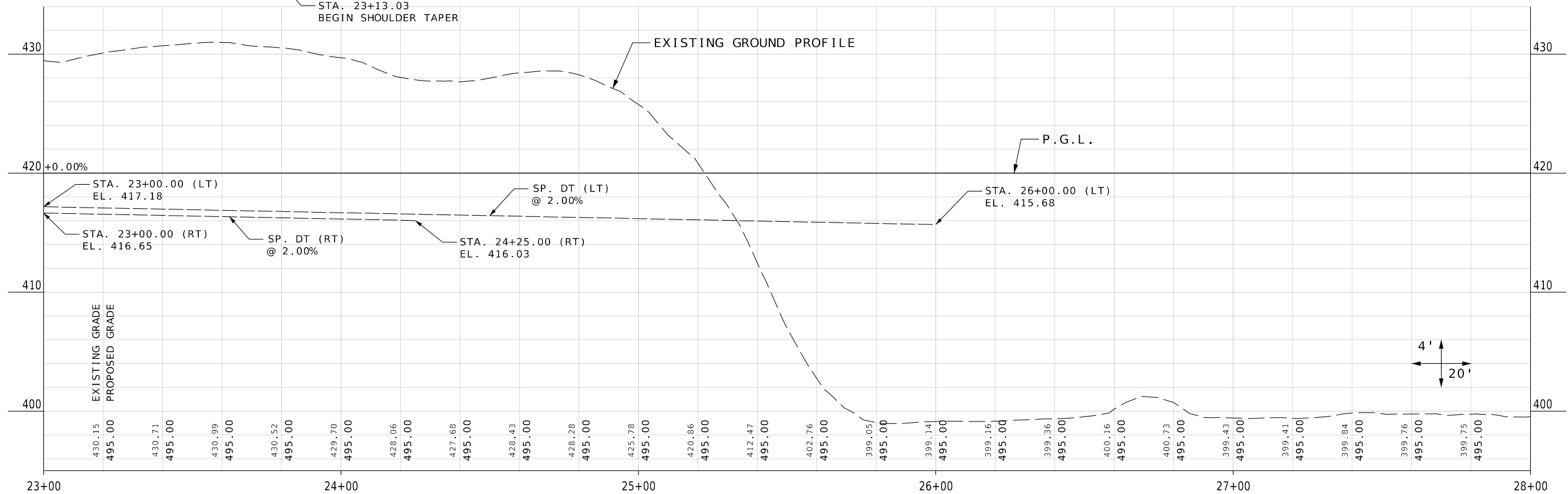
MAPLE STREET ANNEX
725 MAPLE STREET
HILLSBORO, MO 63050
(636) 797-5340
WWW.JEFCO.ORG



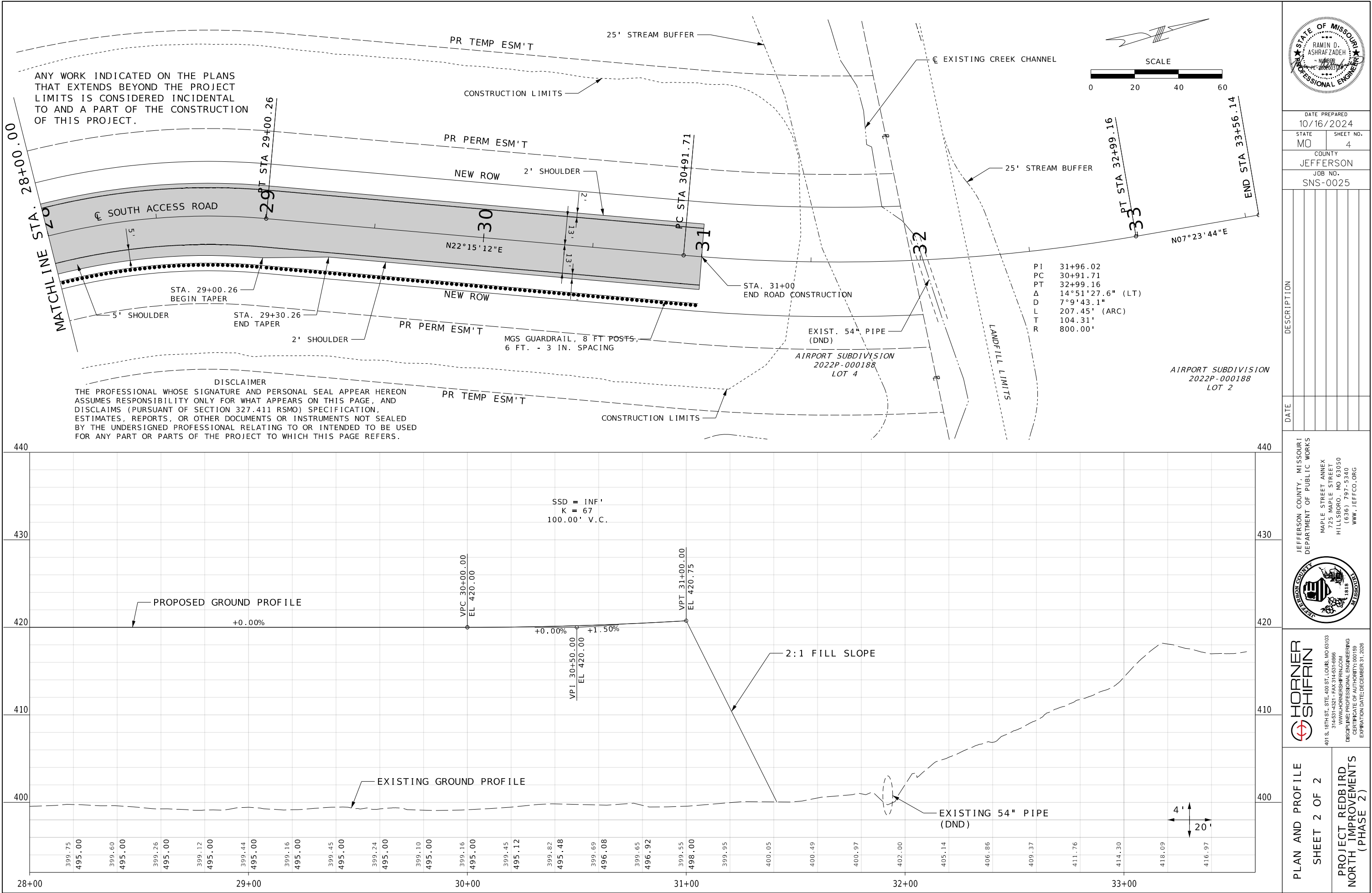
**HORNER
SHIFRIN**
11 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 - FAX 314-531-6986
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PLAN AND PROFILE
SHEET 1 OF 2
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



... \SAR_PP_HS.dgn 10:26:15 AM 10/16/2024



DATE PREPARED
10/16/2024

STATE
MO

SHEET NO.
4

COUNTY
JEFFERSON

JOB NO.
SNS-0025

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

MAPLE STREET ANNEX
725 MAPLE STREET
HILLSBORO, MO 63050
(636) 797-5340
WWW.JEFFCO.ORG

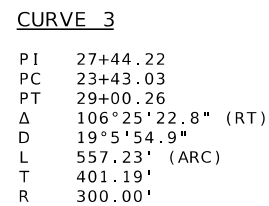
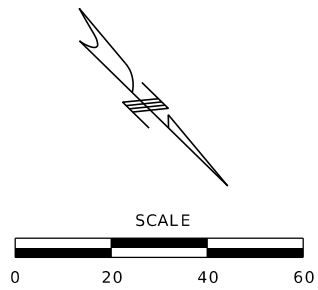


HORNER SHIFRIN

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WWW.HORNERSHIFRIN.COM

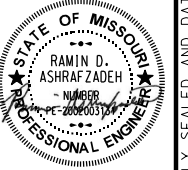
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

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LEGEND:

	EX. ROW
	NEW ROW
	PR PERMANENT EASEMENT
	PR TEMPORARY CONSTRUCTION EASEMENT



DATE PREPARED	
10/16/2024	
STATE	SHEET NO.
MO	7
COUNTY	
JEFFERSON	
JOB NO.	
SNS-0025	

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT IS TO BE DESTROYED.

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

MAPLE STREET ANNEX
725 MAPLE STREET
HILLSBORO, MO 63050
(636) 797-5340
WWW.JEFCO.ORG



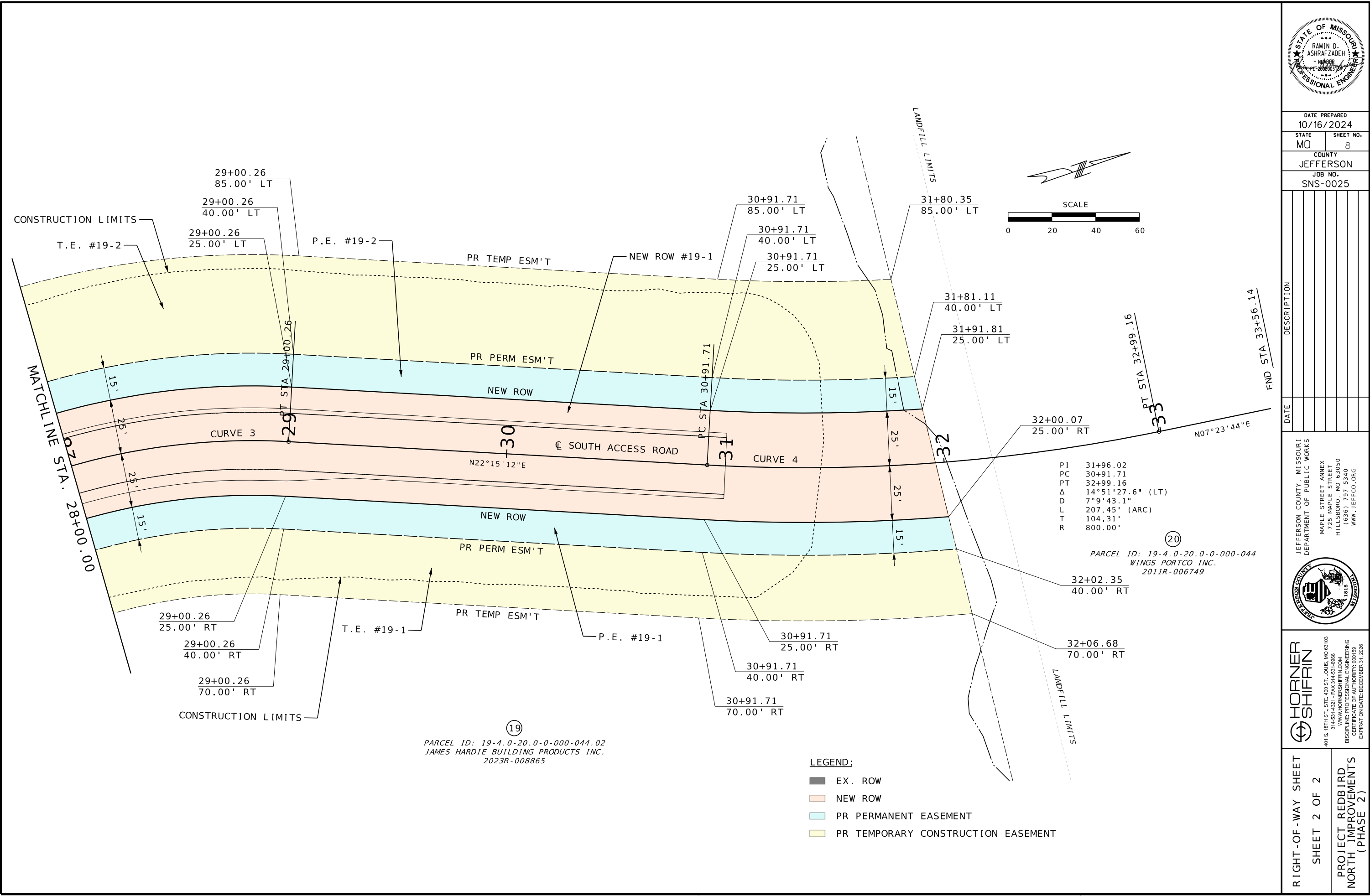
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RIGHT-OF-WAY SHEET
SHEET 1 OF 2

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)



19
PARCEL ID: 19-4.0-20.0-0-000-044.02
JAMES HARDIE BUILDING PRODUCTS INC.
2023R-008865

- LEGEND:
- EX. ROW
 - NEW ROW
 - PR PERMANENT EASEMENT
 - PR TEMPORARY CONSTRUCTION EASEMENT

PI 31+96.02
PC 30+91.71
PT 32+99.16
Δ 14°51'27.6" (LT)
DL 7°9'43.1"
T 207.45' (ARC)
R 104.31'
800.00'

20
PARCEL ID: 19-4.0-20.0-0-000-044
WINGS PORTCO INC.
2011R-006749

32+02.35
40.00' RT

32+06.68
70.00' RT



DATE PREPARED
10/16/2024
STATE MO SHEET NO. 8
COUNTY JEFFERSON
JOB NO. SNS-0025

DATE	DESCRIPTION

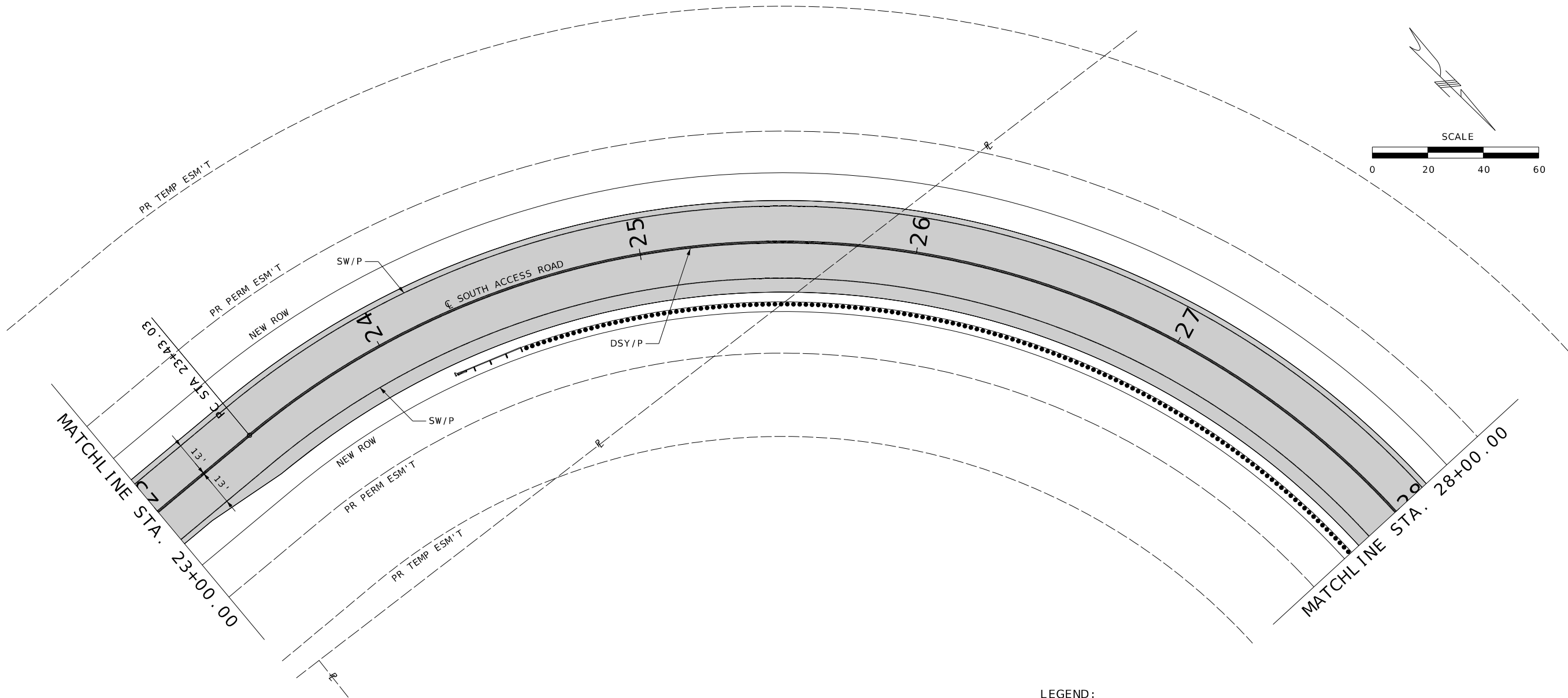
JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS
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725 MAPLE STREET
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RIGHT-OF-WAY SHEET
SHEET 2 OF 2
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



- LEGEND:**
- DSY/P DOUBLE 4 IN. YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS
 - SW/P 6 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS



DATE PREPARED
10/16/2024

STATE	SHEET NO.
MO	9

COUNTY
JEFFERSON

JOB NO.
SNS-0025

DATE	DESCRIPTION

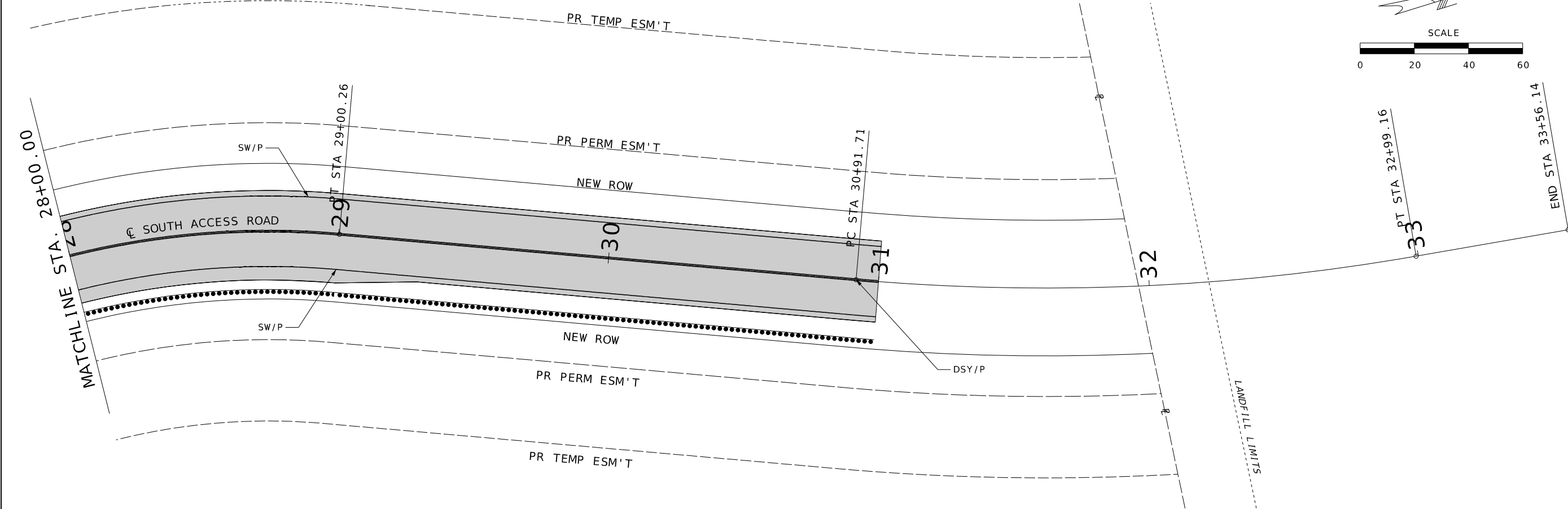
JEFFERSON COUNTY, MISSOURI
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PAVEMENT MARKING
SHEET 1 OF 2
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



- LEGEND:**
- DSY/P DOUBLE 4 IN. YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS
- SW/P 6 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

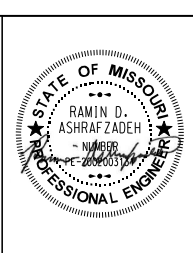
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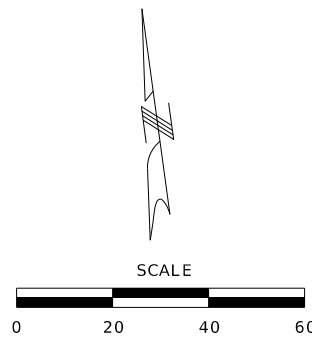
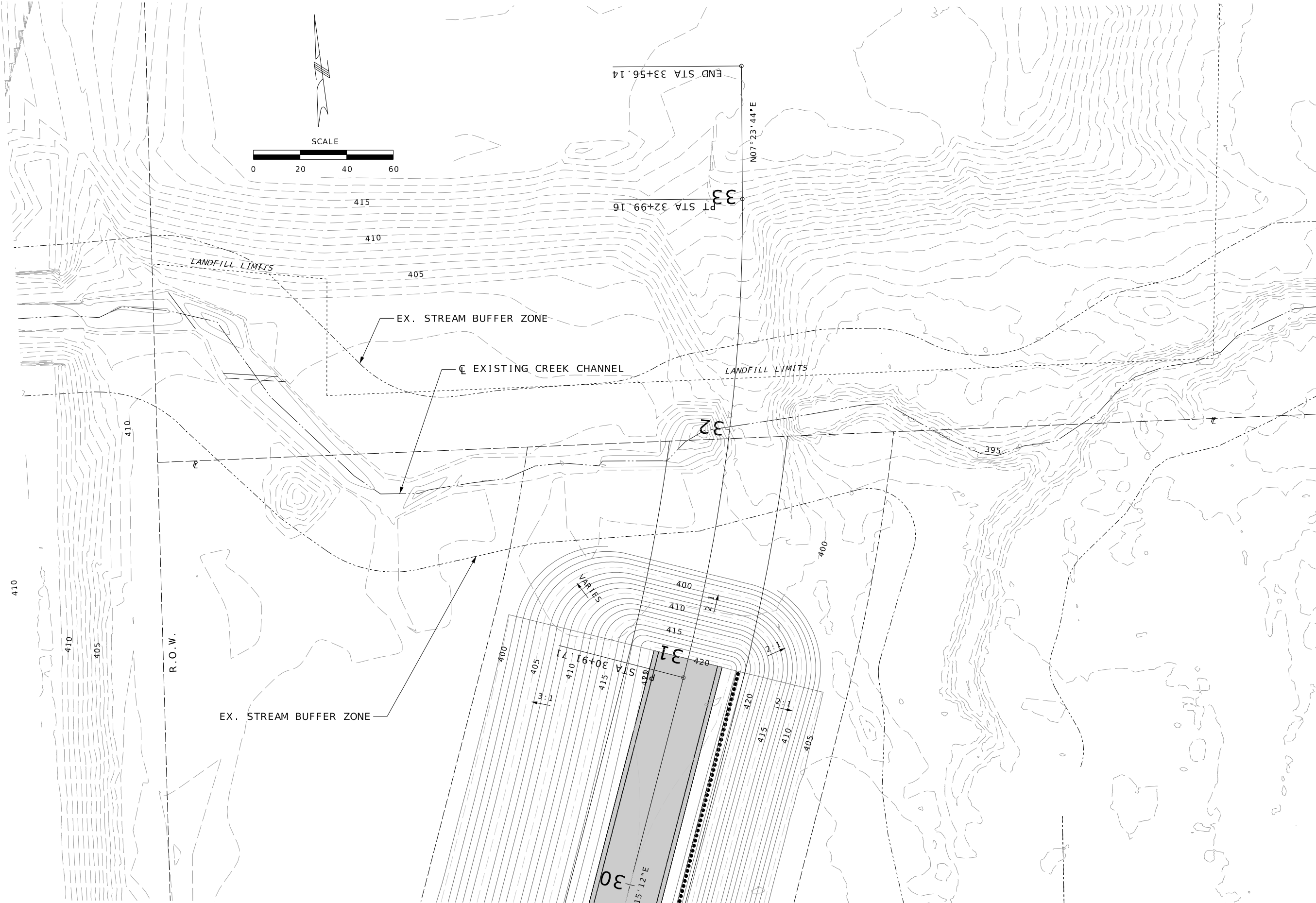
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EXPIRATION DATE: DECEMBER 31, 2026

PAVEMENT MARKING
SHEET 2 OF 2
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

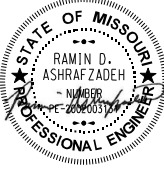


DATE PREPARED
10/16/2024
STATE
MO
SHEET NO.
10
COUNTY
JEFFERSON
JOB NO.
SNS-0025

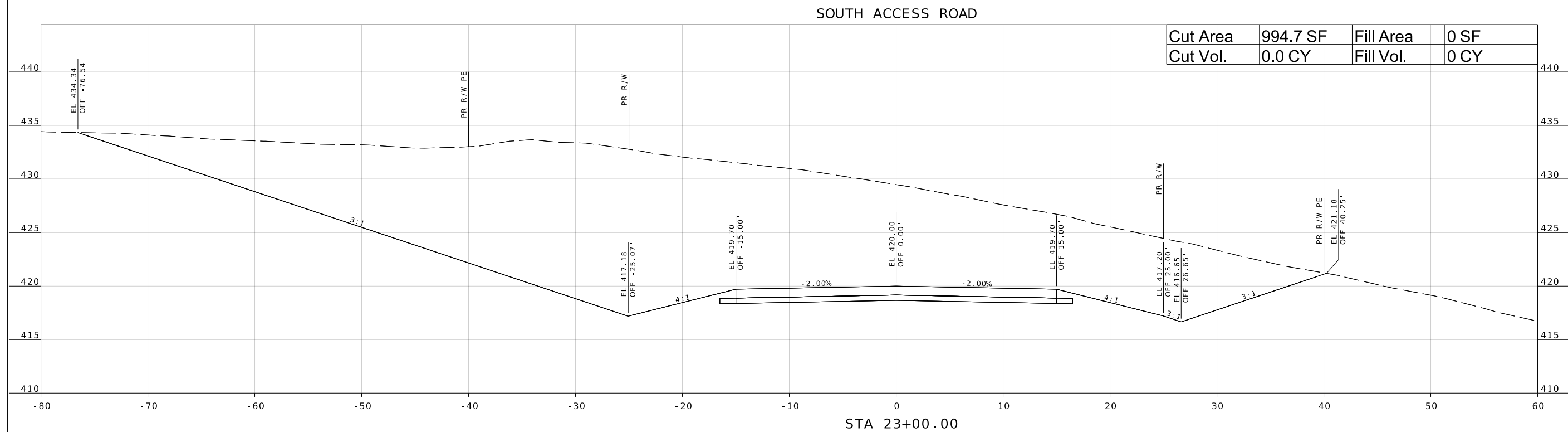
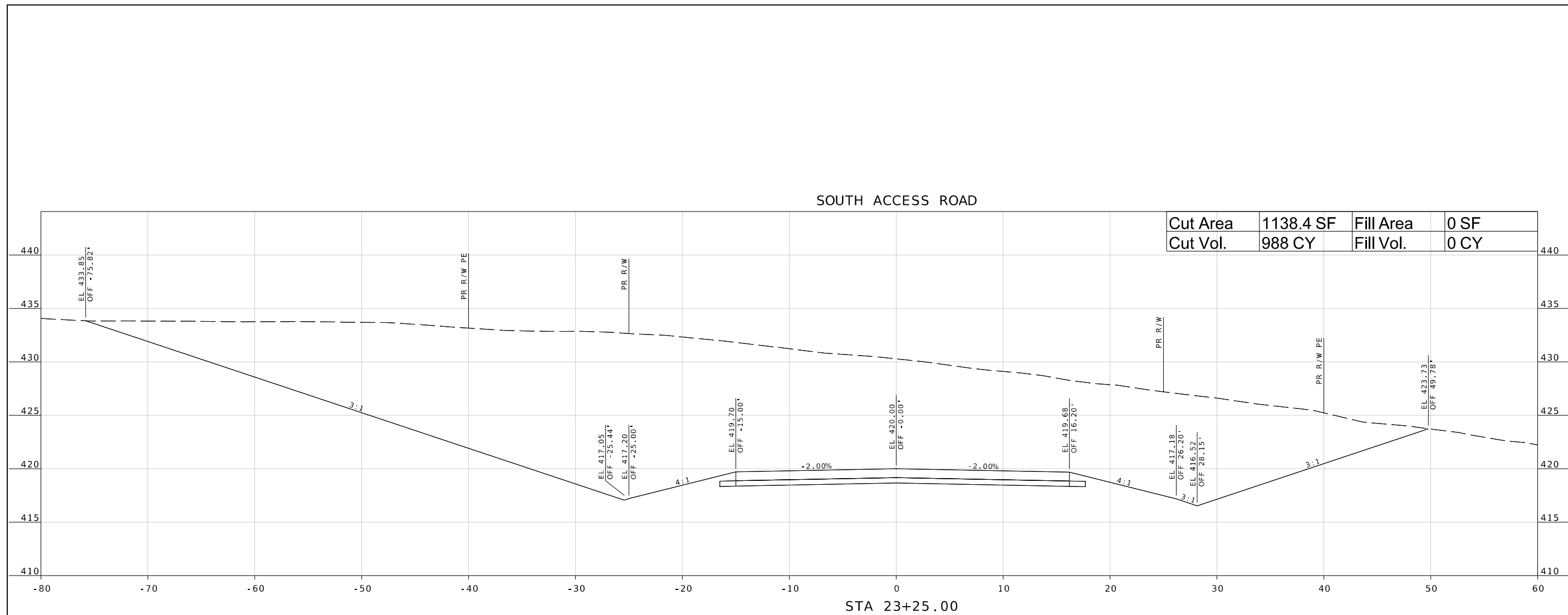
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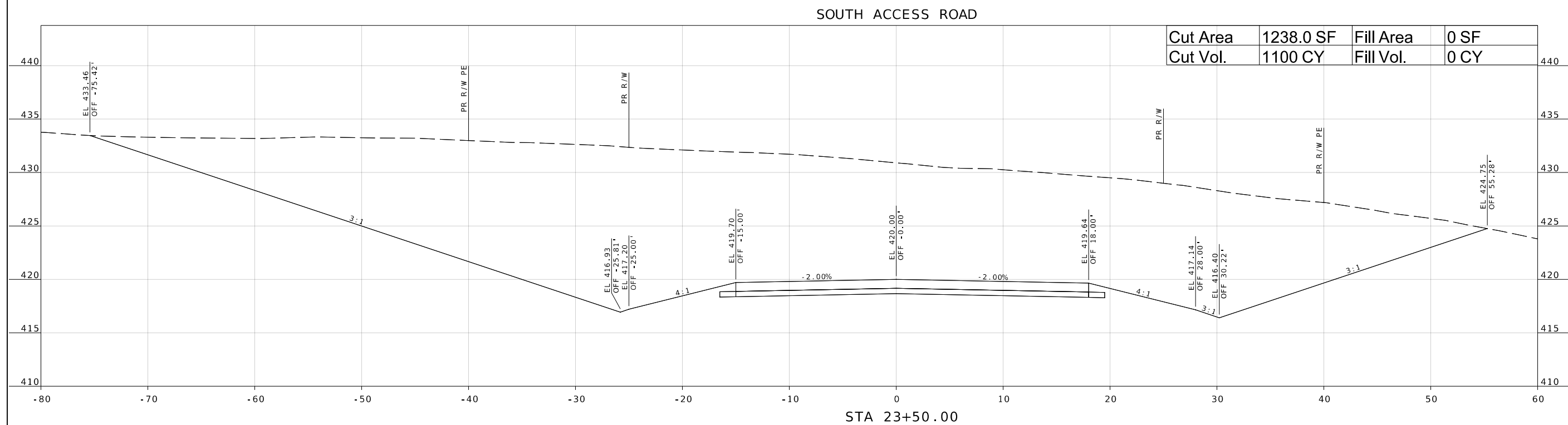
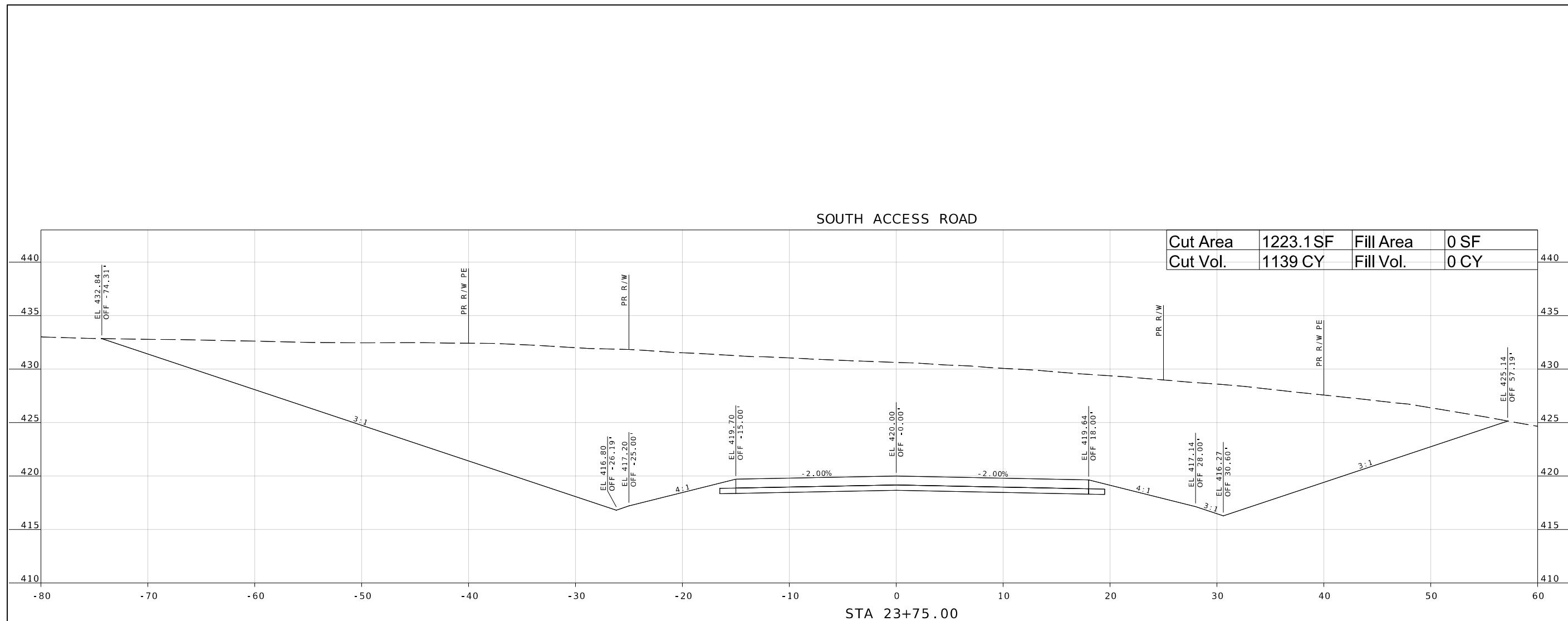


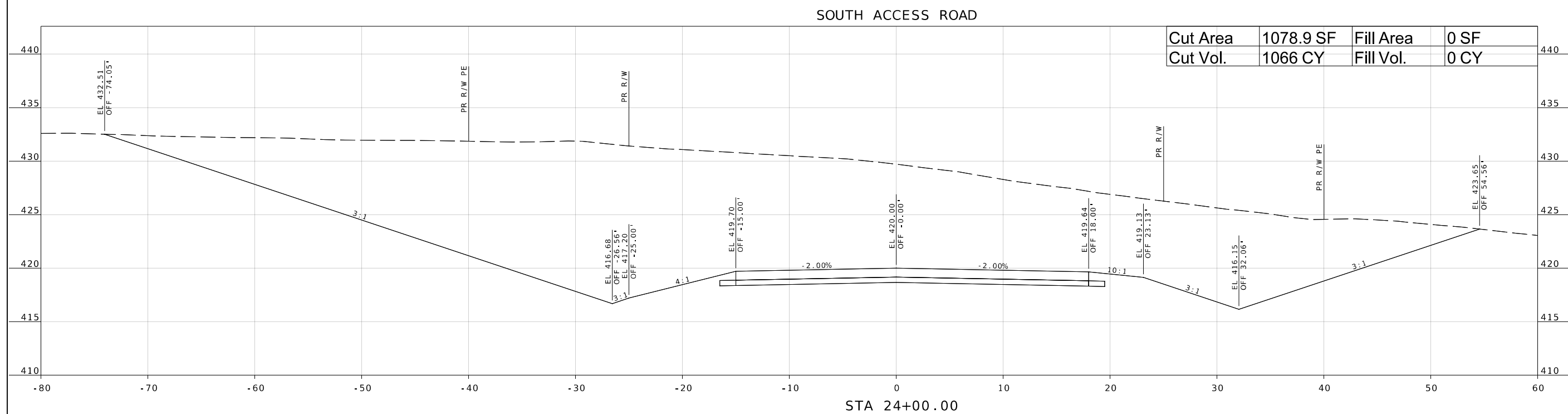
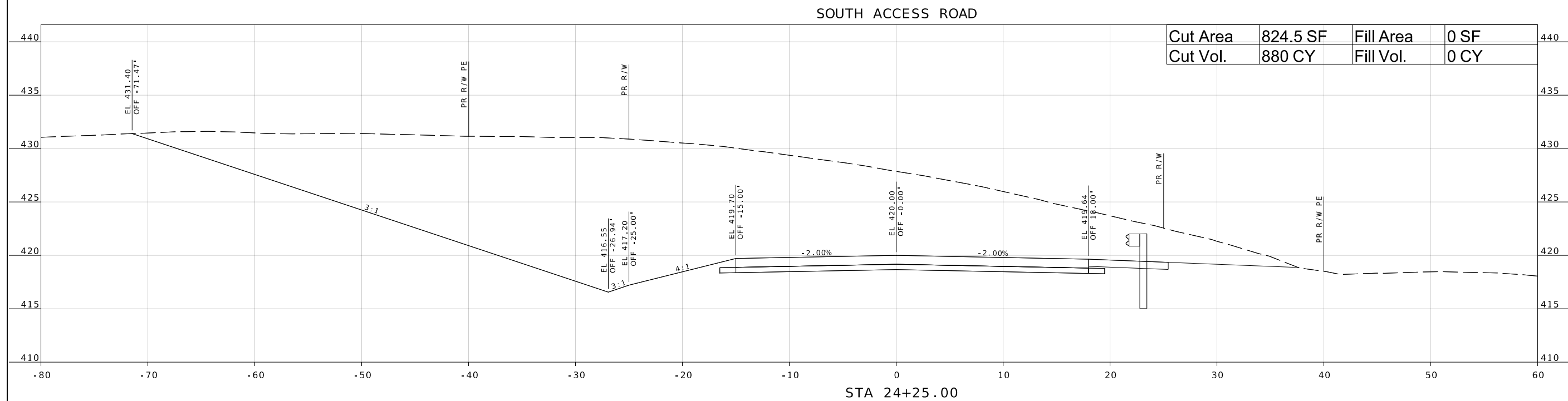
ROAD END GRADING PLAN

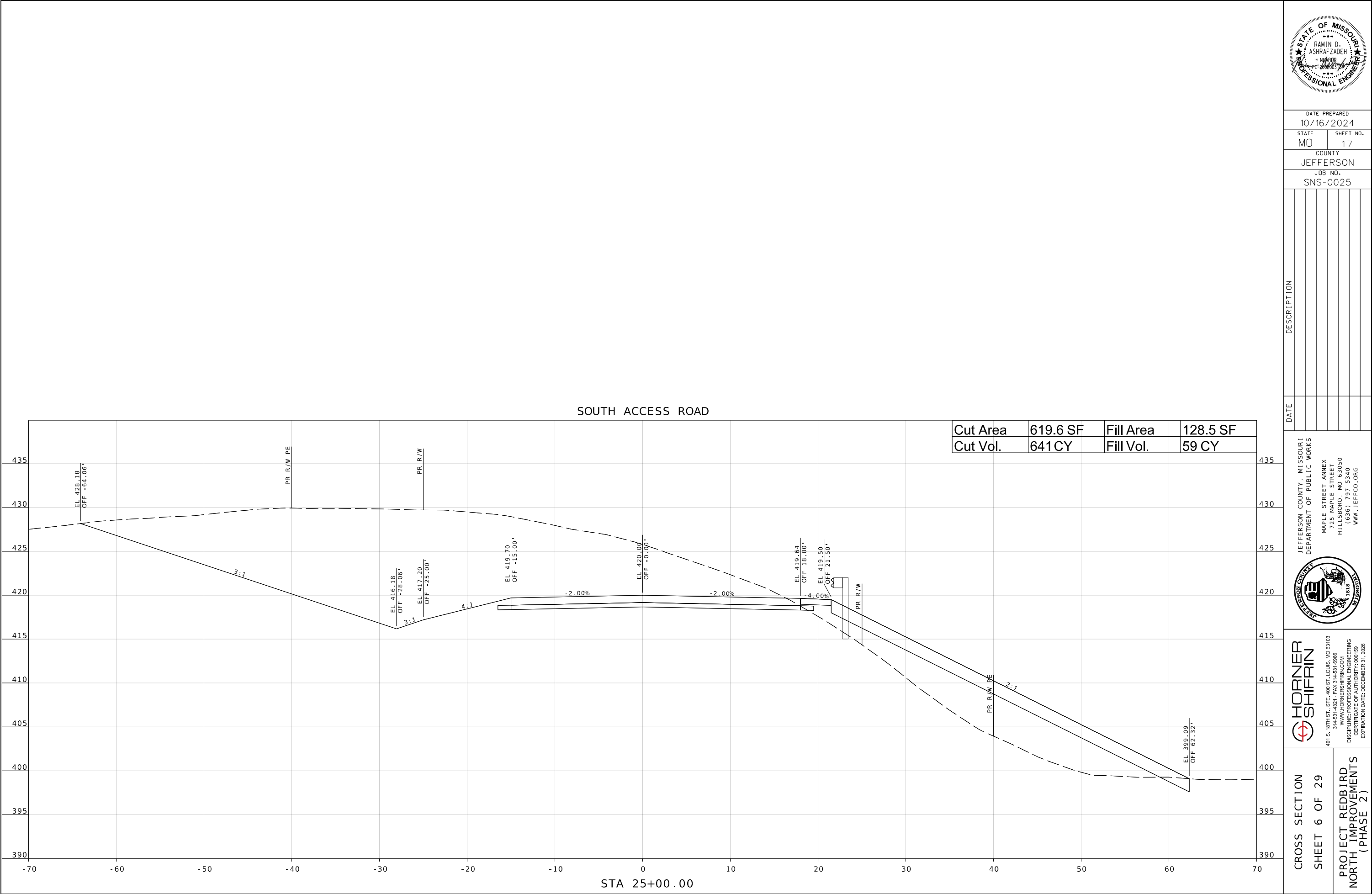
SPECIAL SHEET SHEET 2 OF 2 PROJECT REDBIRD NORTH IMPROVEMENTS (PHASE 2)	 HORNER SHIFRIN 401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103 314-531-4321 - FAX 314-531-4986 WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2026		DATE PREPARED 10/16/2024	
			STATE MO	SHEET NO. 11
			COUNTY JEFFERSON	
			JOB NO. SNS-0025	
			DATE	
DESCRIPTION				
JEFFERSON COUNTY, MISSOURI DEPARTMENT OF PUBLIC WORKS MAPLE STREET ANNEX 725 MAPLE STREET HILLSBORO, MO 63050 (636) 797-5340 WWW.JEFFCO.ORG				

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.









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10/16/2024

STATE MO	SHEET NO. 17
COUNTY JEFFERSON	
JOB NO. SNS-0025	

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
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MAPLE STREET ANNEX
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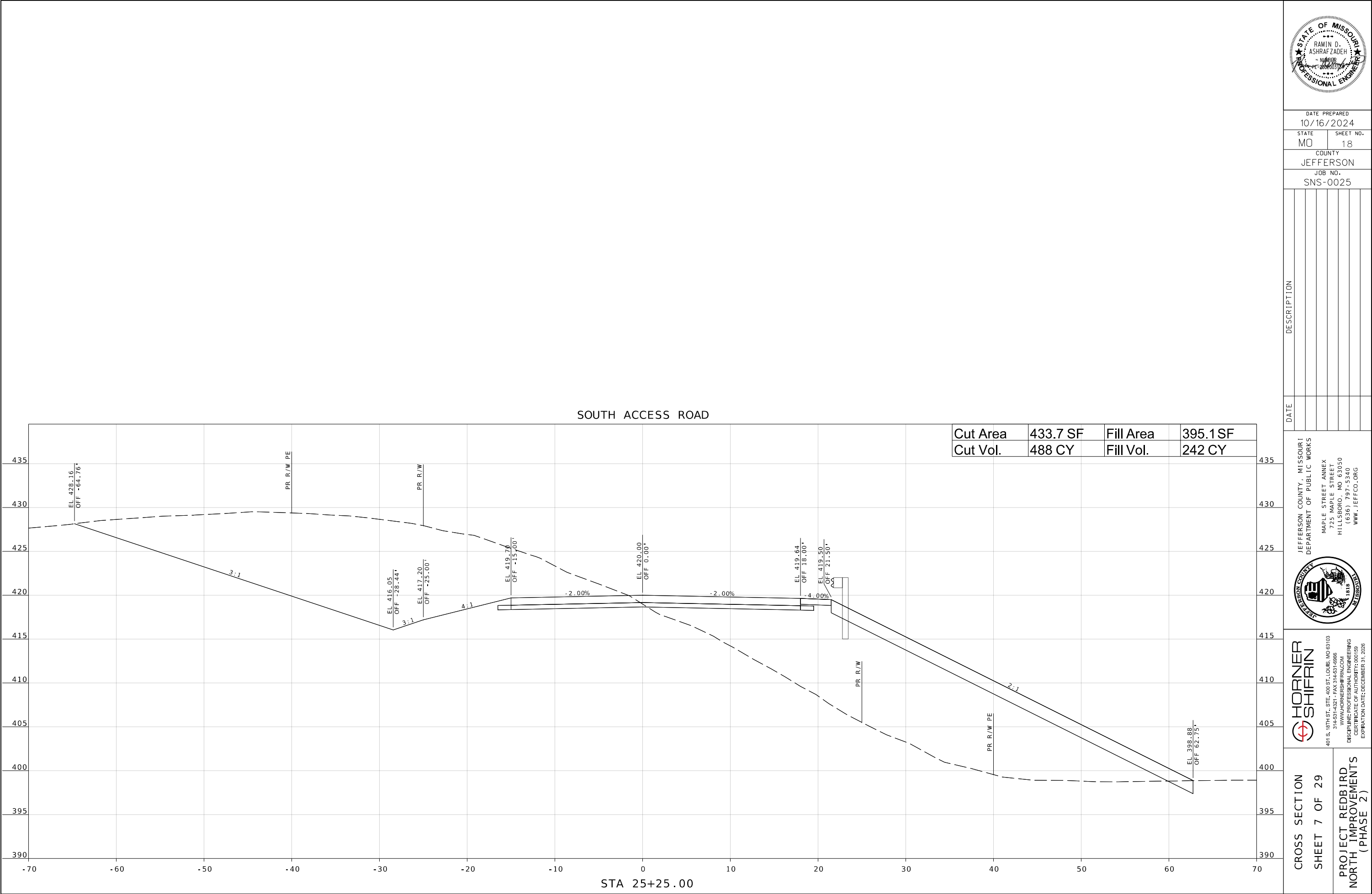


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CROSS SECTION
SHEET 6 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

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DATE PREPARED
10/16/2024

STATE MO	SHEET NO. 18
COUNTY JEFFERSON	
JOB NO. SNS-0025	

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS
MAPLE STREET ANNEX
725 MAPLE STREET
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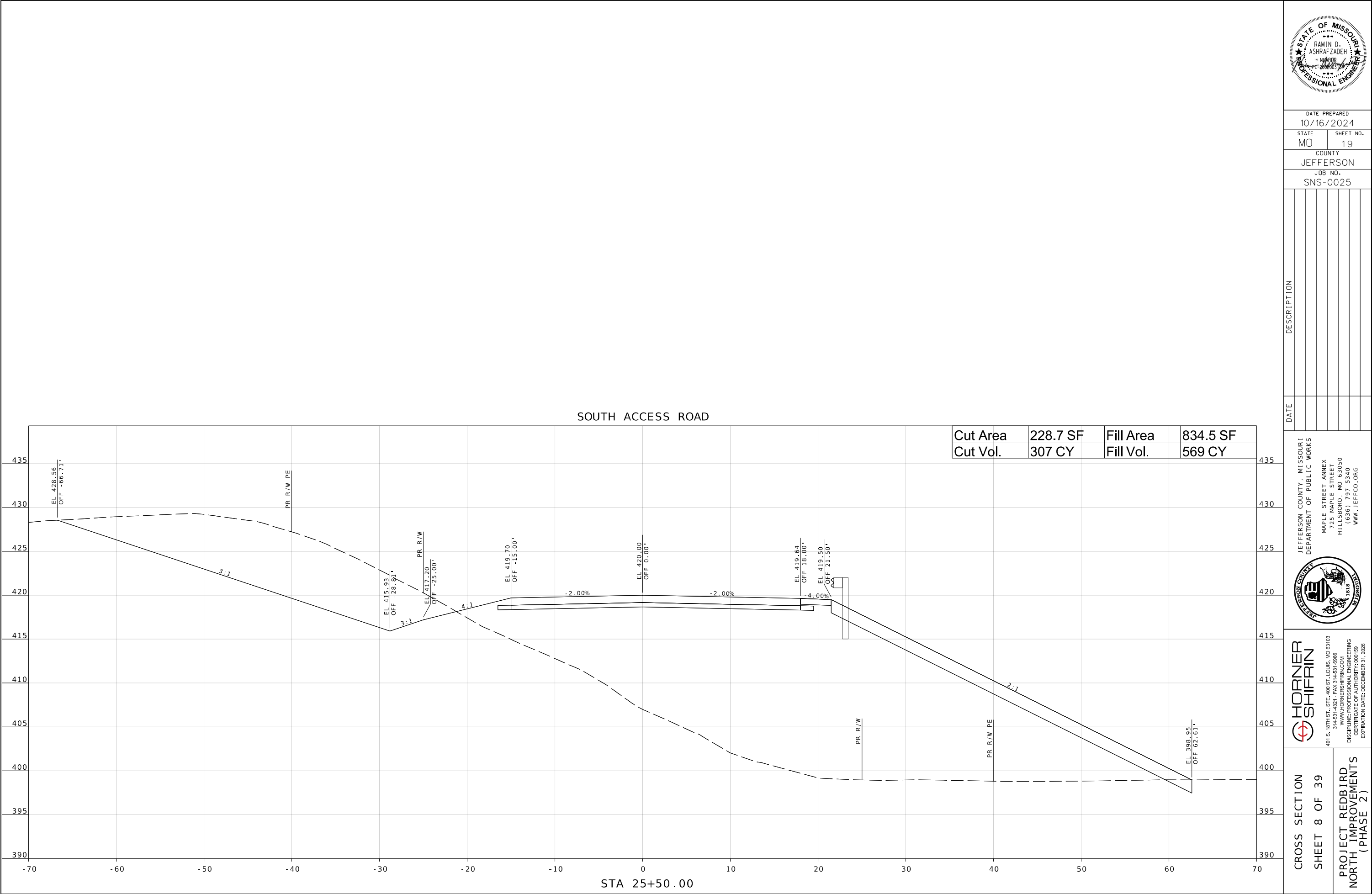


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EXPIRATION DATE: DECEMBER 31, 2026

CROSS SECTION
SHEET 7 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

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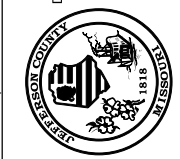


DATE PREPARED
10/16/2024

STATE	SHEET NO.
MO	19
COUNTY	
JEFFERSON	
JOB NO.	
SNS-0025	

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JEFFERSON COUNTY, MISSOURI
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MAPLE STREET ANNEX
725 MAPLE STREET
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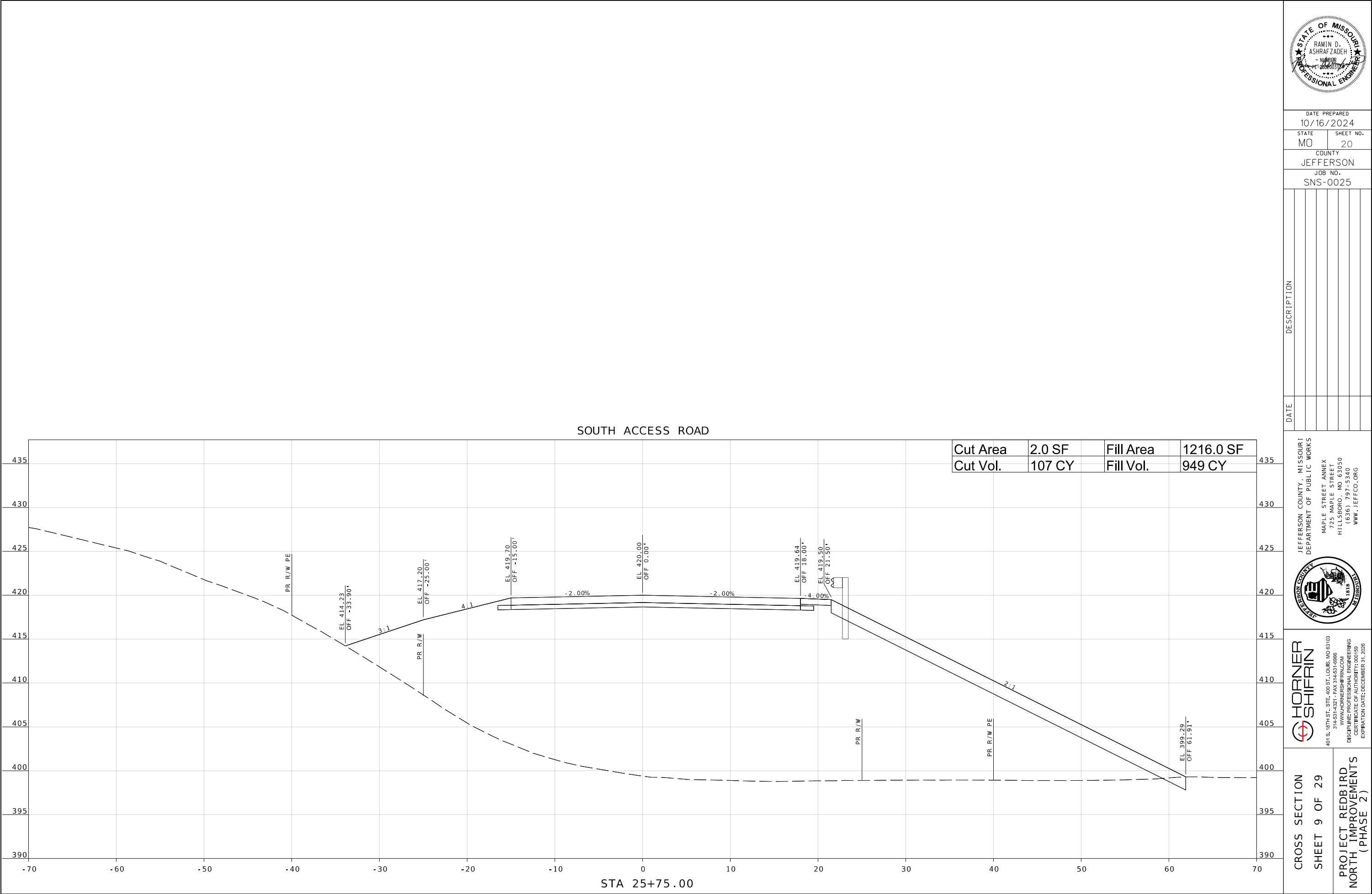


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EXPIRATION DATE: DECEMBER 31, 2026

CROSS SECTION
SHEET 8 OF 39

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED
10/16/2024

STATE	SHEET NO.
MO	20

COUNTY
JEFFERSON

JOB NO.
SNS-0025

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
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725 MAPLE STREET
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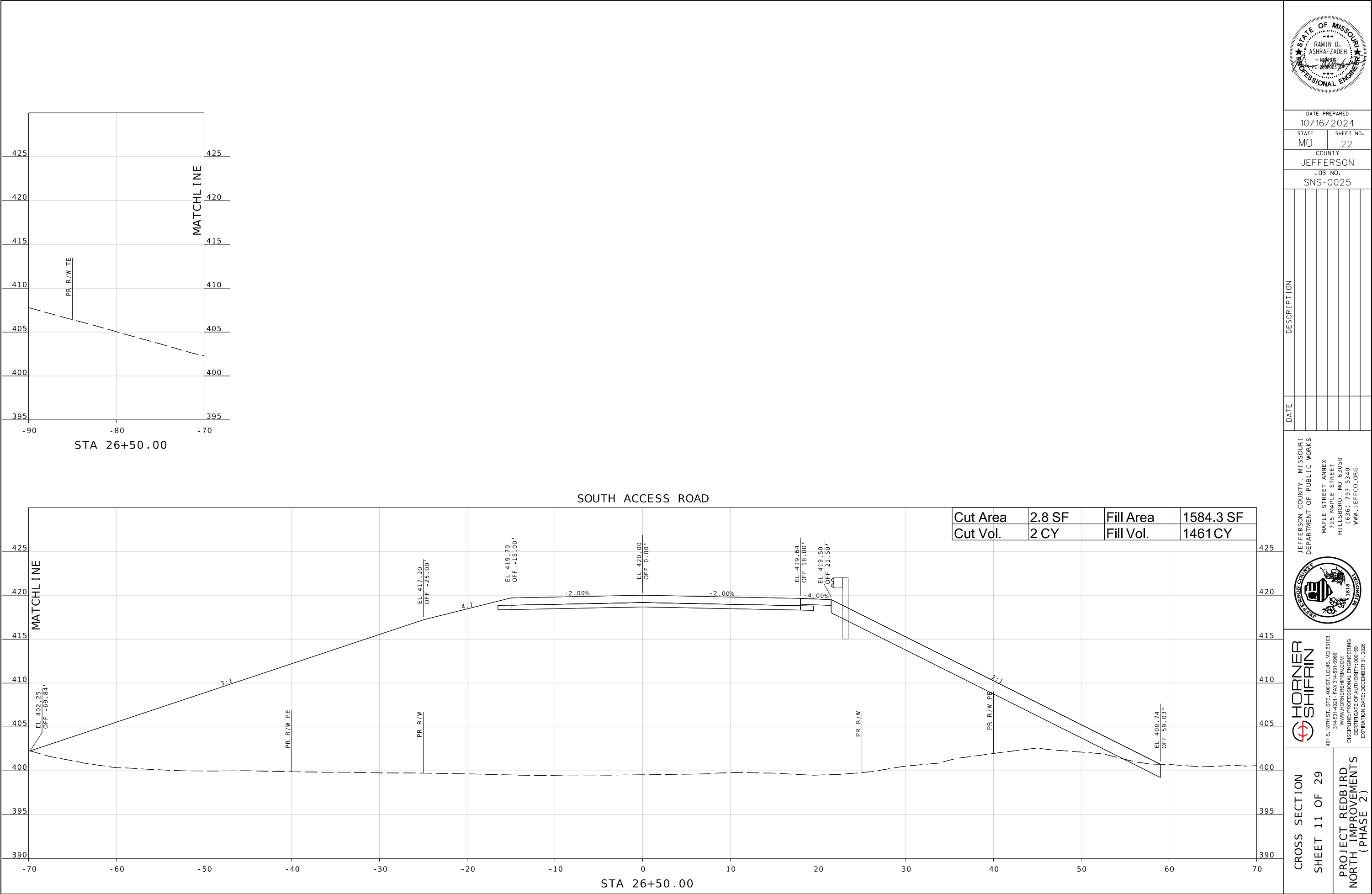
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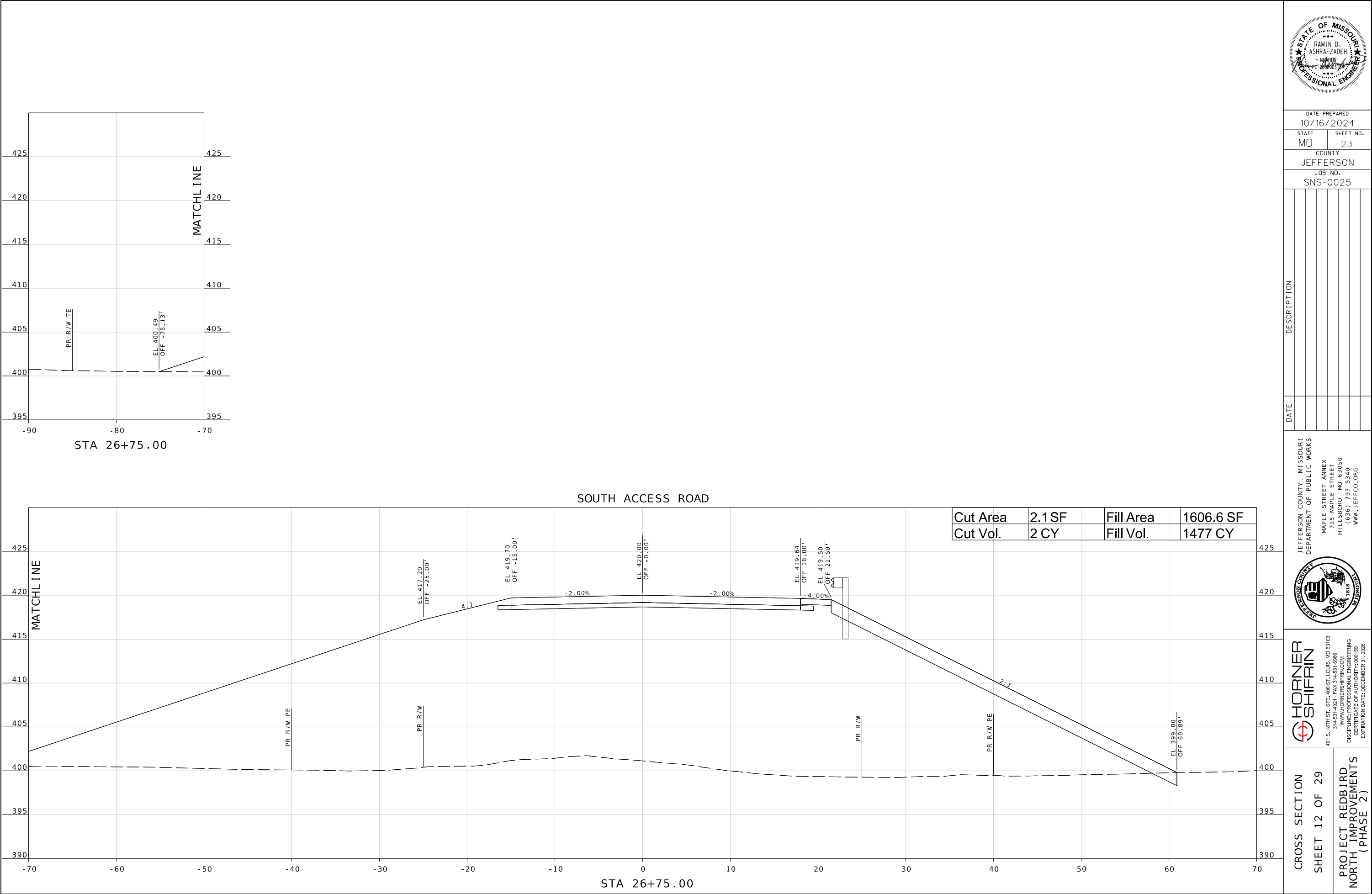
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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

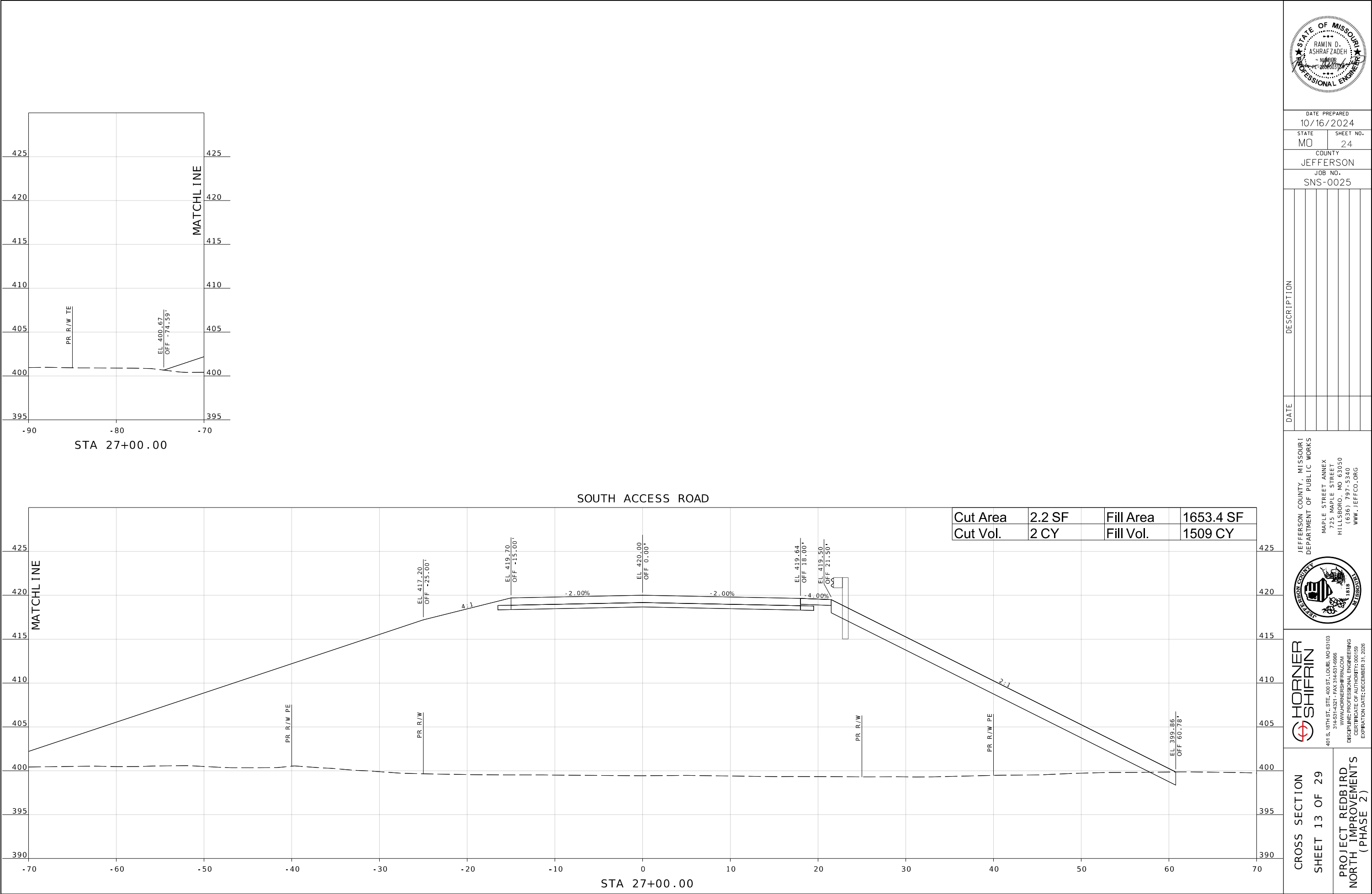
CROSS SECTION
SHEET 9 OF 29

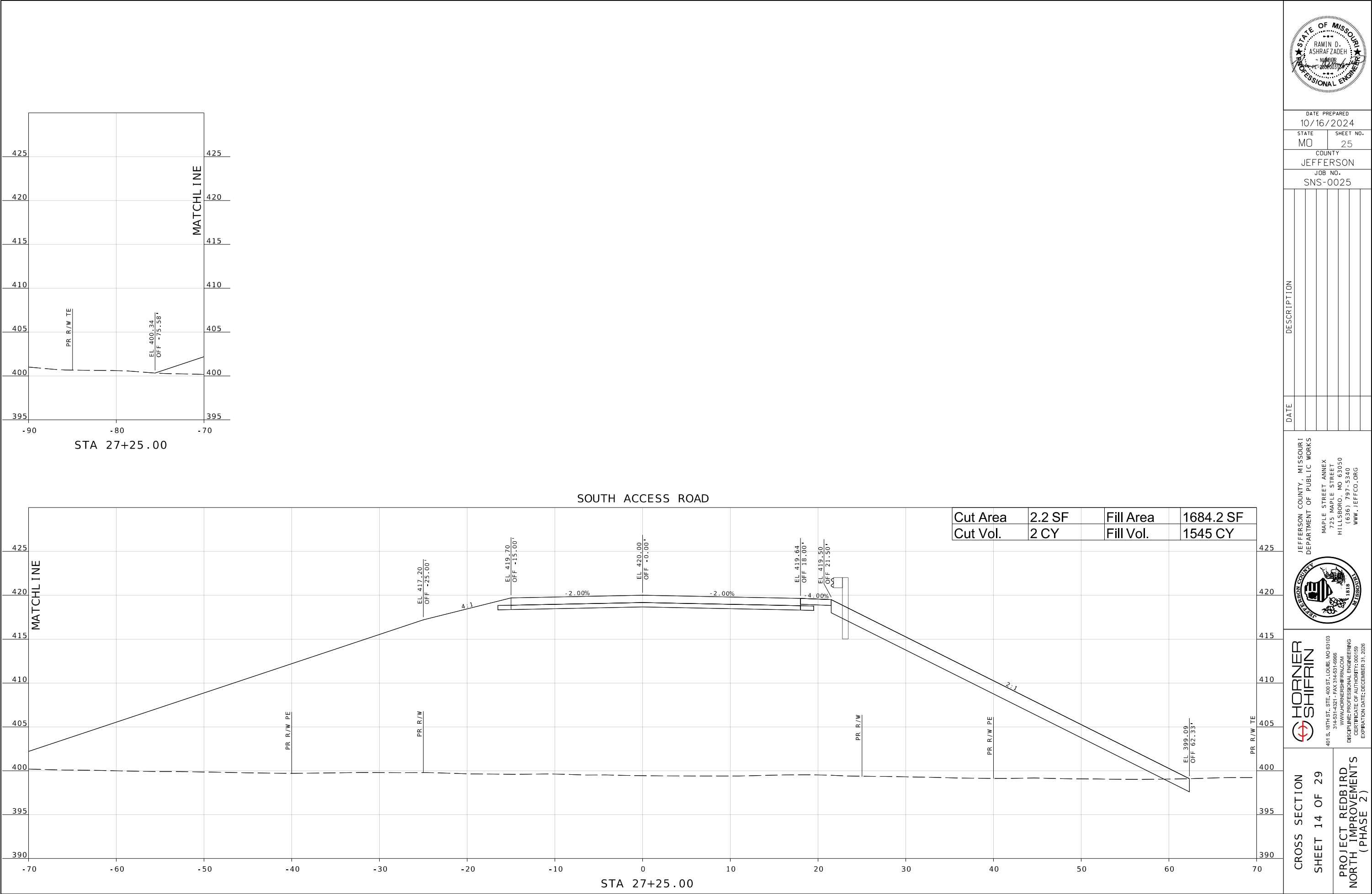
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

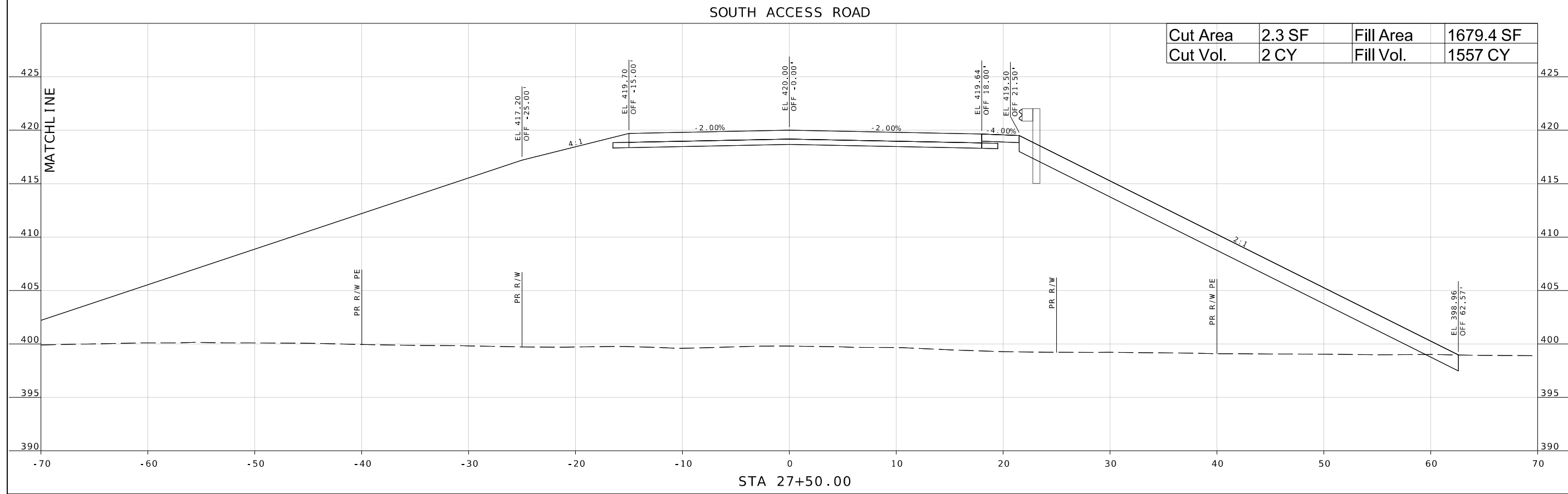
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Cut Area	2.3 SF	Fill Area	1679.4 SF
Cut Vol.	2 CY	Fill Vol.	1557 CY



DATE PREPARED	
10/16/2024	
STATE	SHEET NO.
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COUNTY	
JEFFERSON	
JOB NO.	
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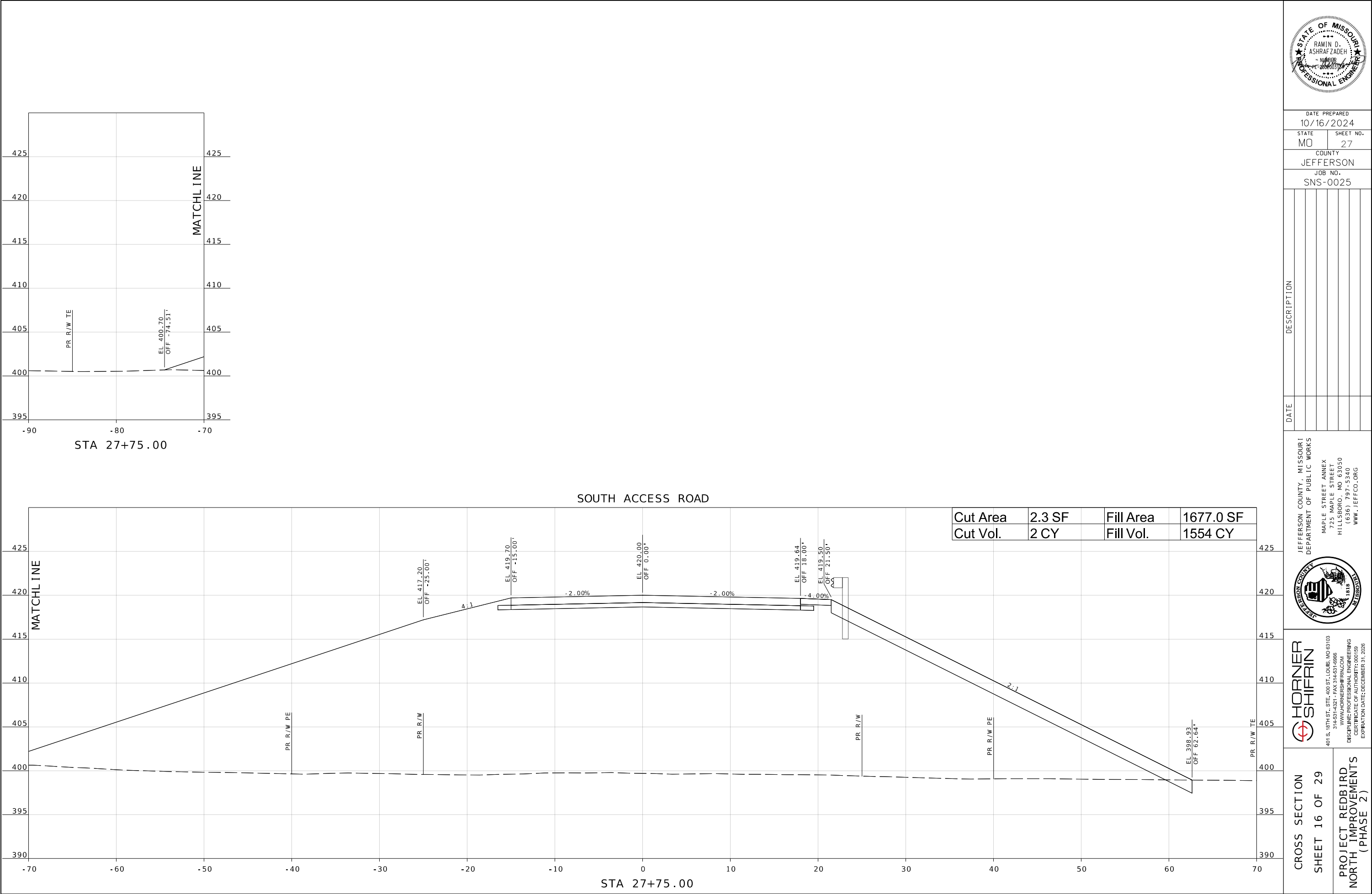
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EXPIRATION DATE: DECEMBER 31, 2008

CROSS SECTION
SHEET 15 OF 29
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SOUTH ACCESS ROAD

Cut Area	2.3 SF	Fill Area	1677.0 SF
Cut Vol.	2 CY	Fill Vol.	1554 CY

425

420

415

410

405

400

395

390

MATCHLINE

EL 417.20
OFF -25.00'

4:1

PR R/W

EL 419.70
OFF -15.00'

-2.00%

EL 420.00
OFF 0.00'

-2.00%

EL 419.64
OFF 18.00'

-4.00%

EL 419.50
OFF 21.50'

PR R/W

2:1

PR R/W PE

EL 398.93
OFF 62.64'

PR R/W TE

425

420

415

410

405

400

395

390

-70

-60

-50

-40

-30

-20

-10

0

10

20

30

40

50

60

70

STA 27+75.00

STATE OF MISSOURI

RAMIN D. ASHRAFZADEH

PROFESSIONAL ENGINEER

DATE PREPARED
10/16/2024

STATE
MO

SHEET NO.
27

COUNTY
JEFFERSON

JOB NO.
SNS-0025

DATE

DESCRIPTION

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

MAPLE STREET ANNEX
725 MAPLE STREET
HILLSBORO, MO 63050
(636) 797-5340
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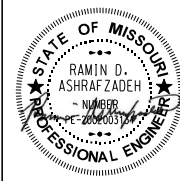
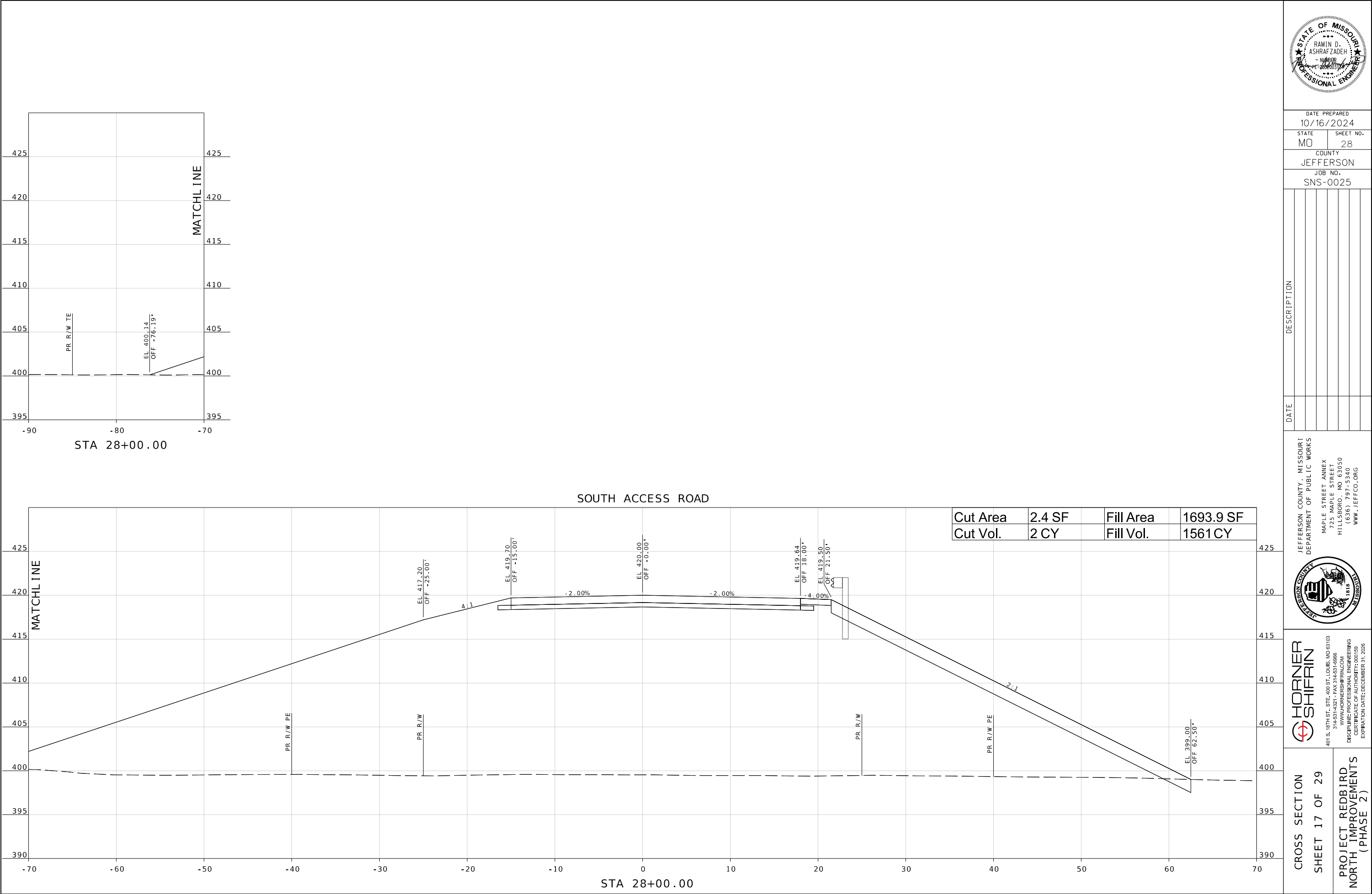
JEFFERSON COUNTY

MISSOURI

CROSS SECTION
SHEET 16 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED
10/16/2024

STATE	SHEET NO.
MO	28

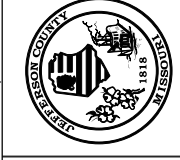
COUNTY
JEFFERSON

JOB NO.
SNS-0025

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

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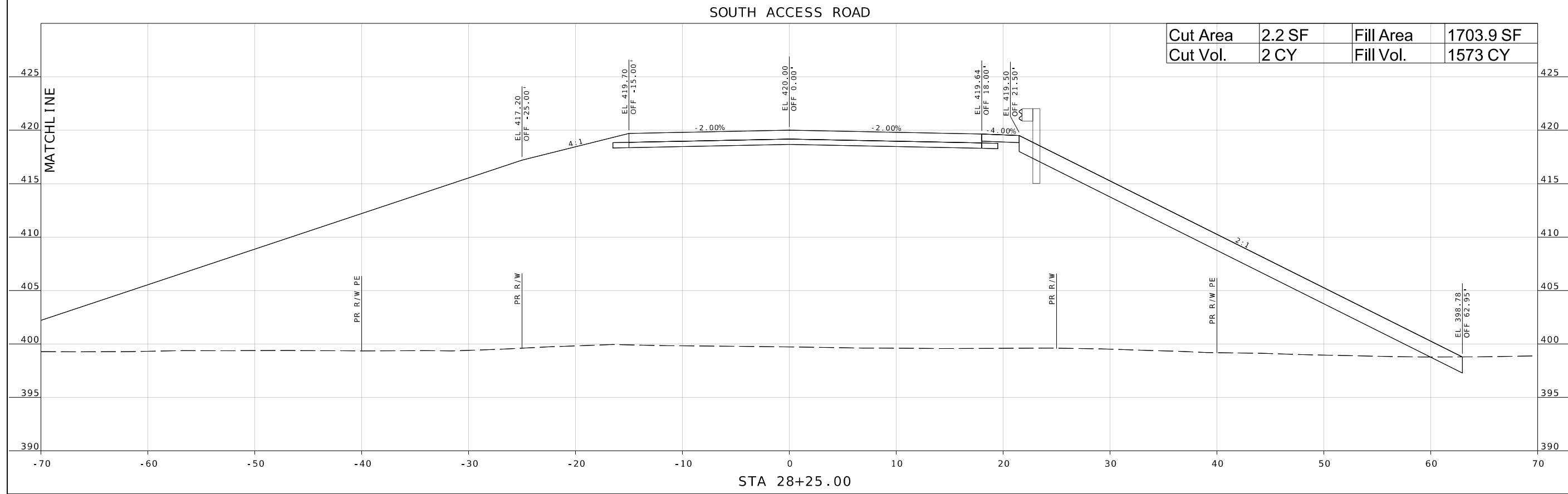
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EXPIRATION DATE: DECEMBER 31, 2026

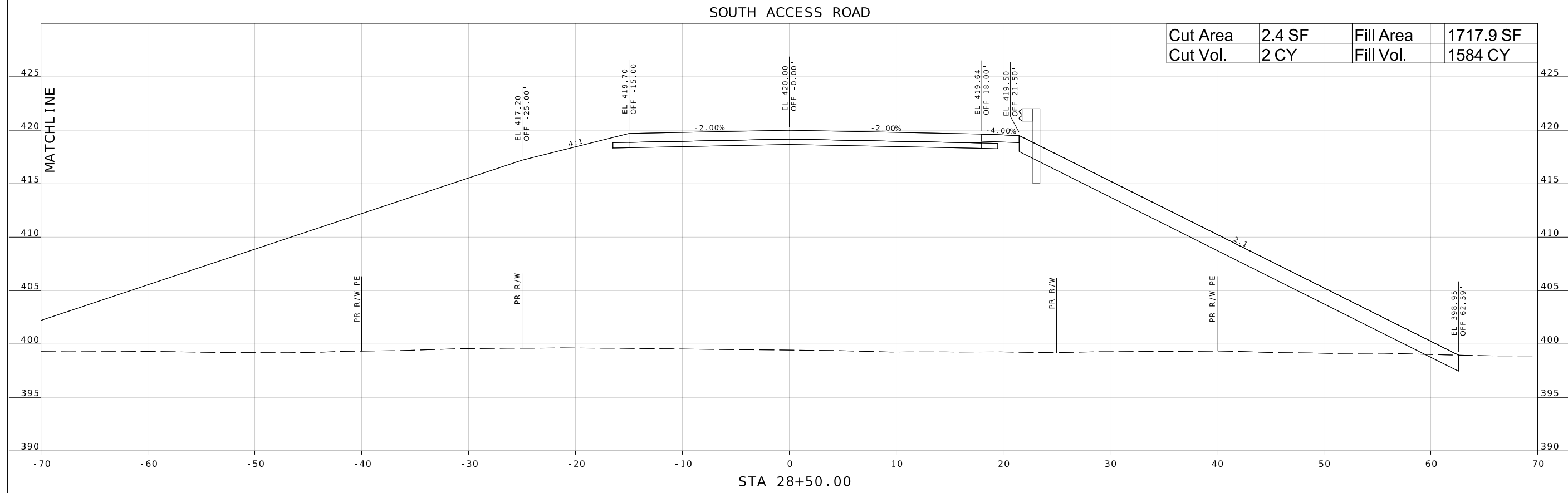
CROSS SECTION
SHEET 17 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



Cut Area	2.2 SF	Fill Area	1703.9 SF
Cut Vol.	2 CY	Fill Vol.	1573 CY



Cut Area	2.4 SF	Fill Area	1717.9 SF
Cut Vol.	2 CY	Fill Vol.	1584 CY



DATE PREPARED	
10/16/2024	
STATE	SHEET NO.
MO	30
COUNTY	
JEFFERSON	
JOB NO.	
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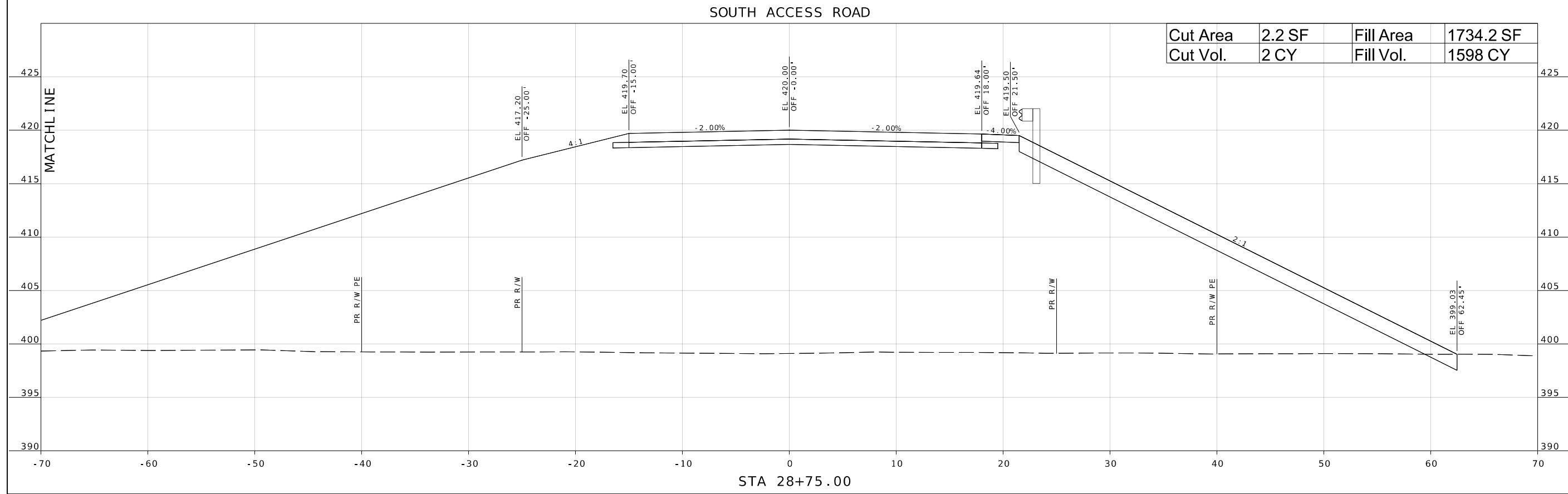
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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2008

CROSS SECTION
SHEET 19 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



Cut Area	2.2 SF	Fill Area	1734.2 SF
Cut Vol.	2 CY	Fill Vol.	1598 CY



DATE PREPARED	
10/16/2024	
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MO	31
COUNTY	
JEFFERSON	
JOB NO.	
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JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

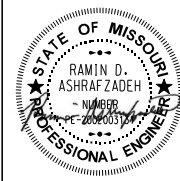
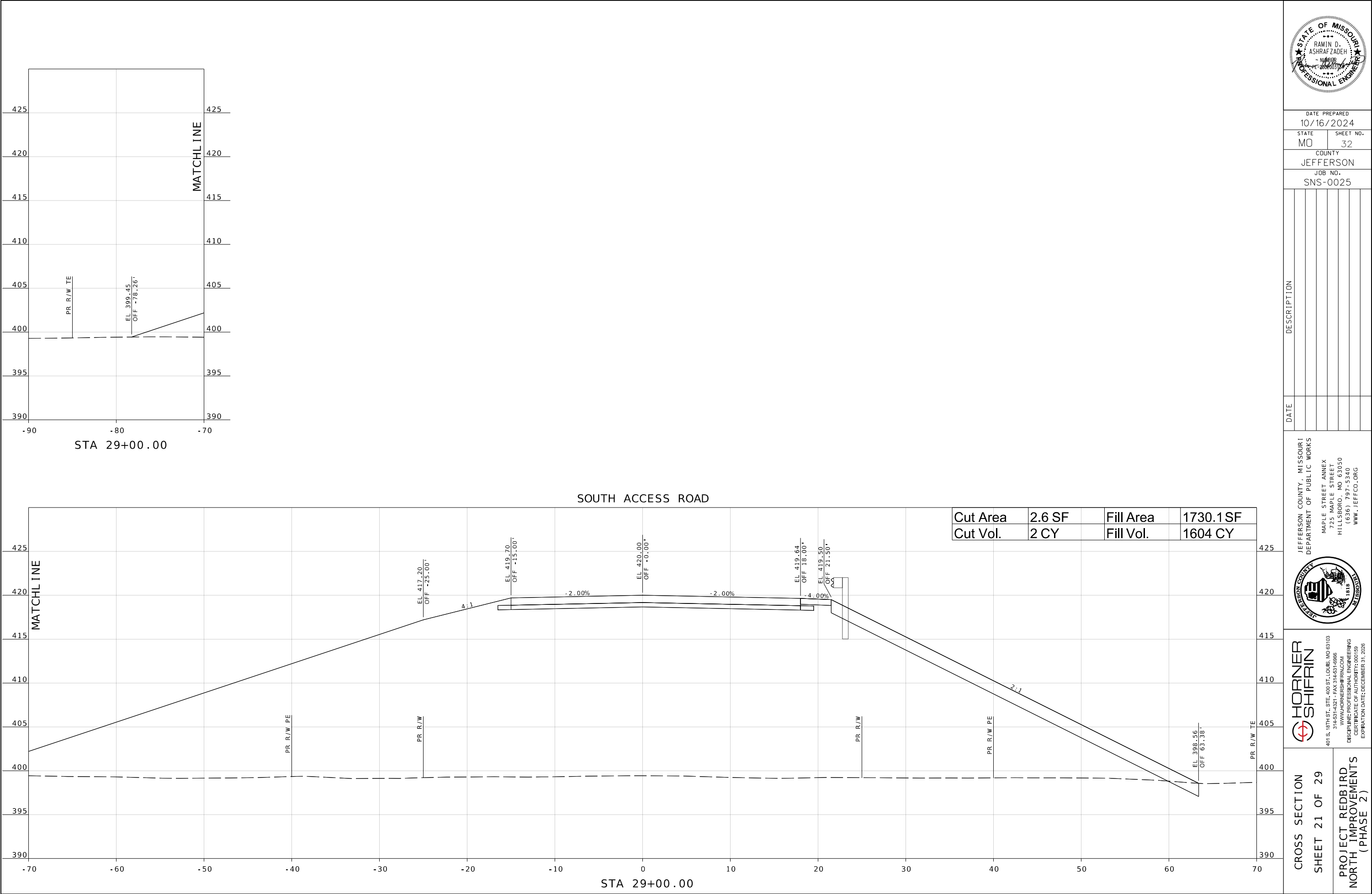
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CROSS SECTION
SHEET 20 OF 29
PROJECT REDBIRD
ORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED
10/16/2024

STATE MO	SHEET NO. 32
COUNTY JEFFERSON	
JOB NO. SNS-0025	

DATE	DESCRIPTION

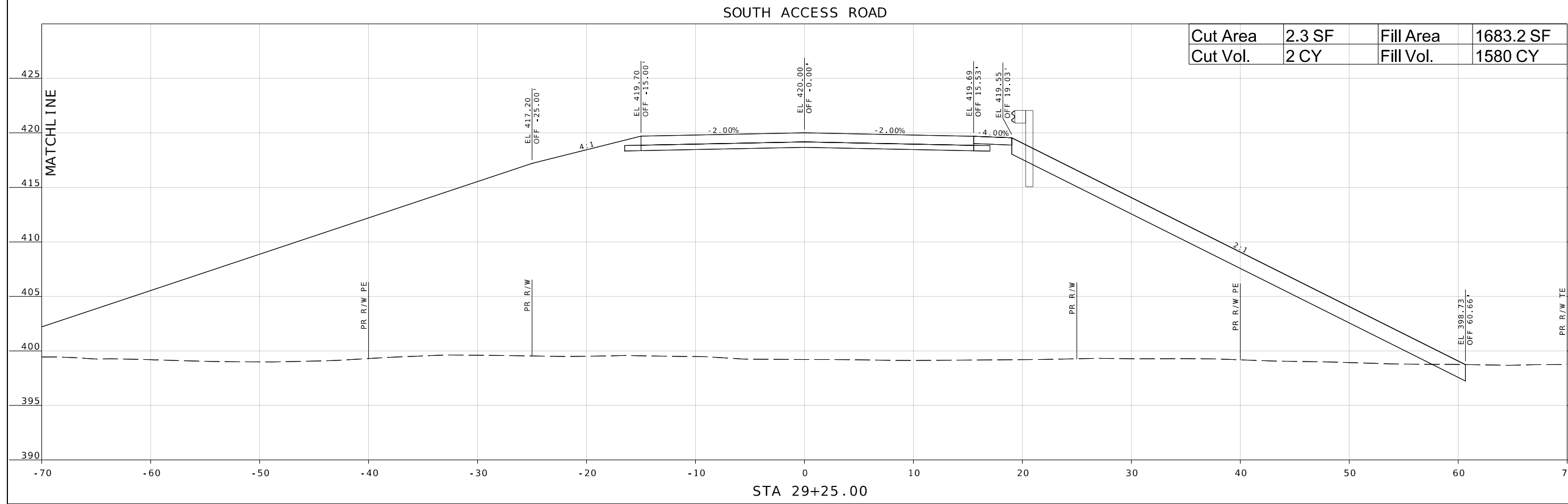
JEFFERSON COUNTY, MISSOURI
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CROSS SECTION
SHEET 21 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)



Cut Area	2.3 SF	Fill Area	1683.2 SF
Cut Vol.	2 CY	Fill Vol.	1580 CY



DATE PREPARED
10/16/2024

STATE MO	SHEET NO. 33
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COUNTY
JEFFERSON

JOB NO.
SNS-0025

DESCRIPTION

DATE _____

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

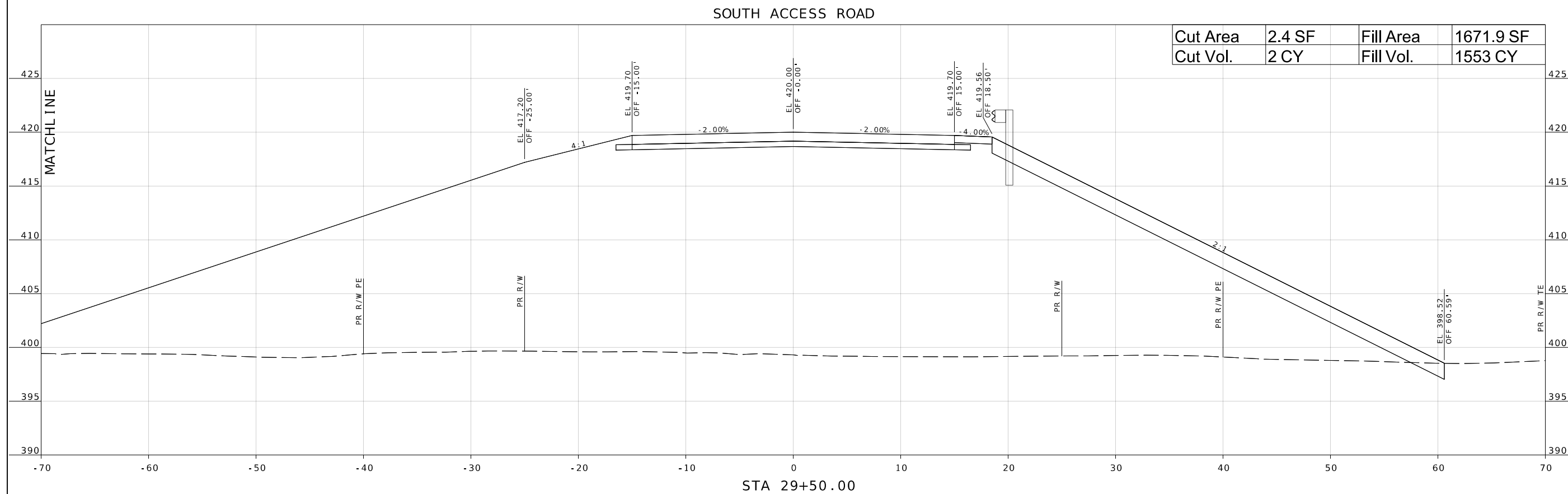
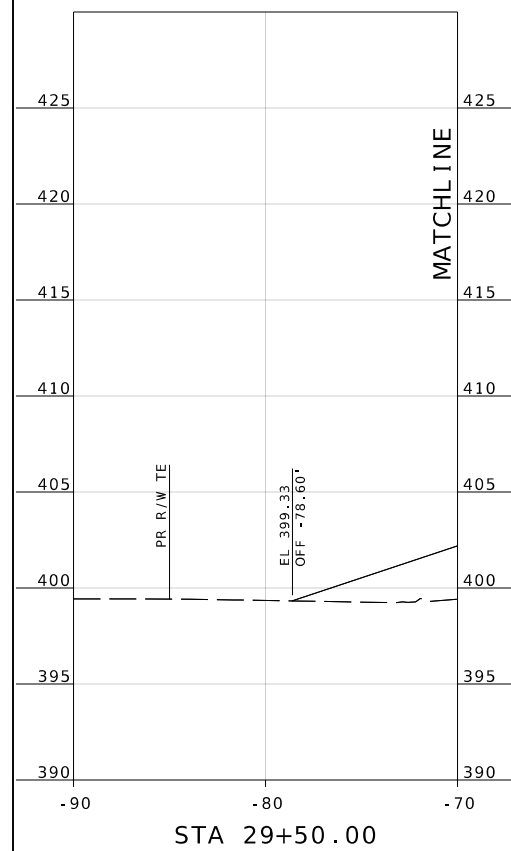
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CROSS SECTION
SHEET 22 OF 29

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DATE PREPARED	
10/16/2024	
STATE	SHEET NO.
MO	34
COUNTY	
JEFFERSON	
JOB NO.	
SNS-0025	

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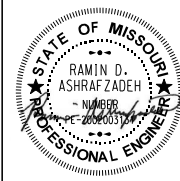
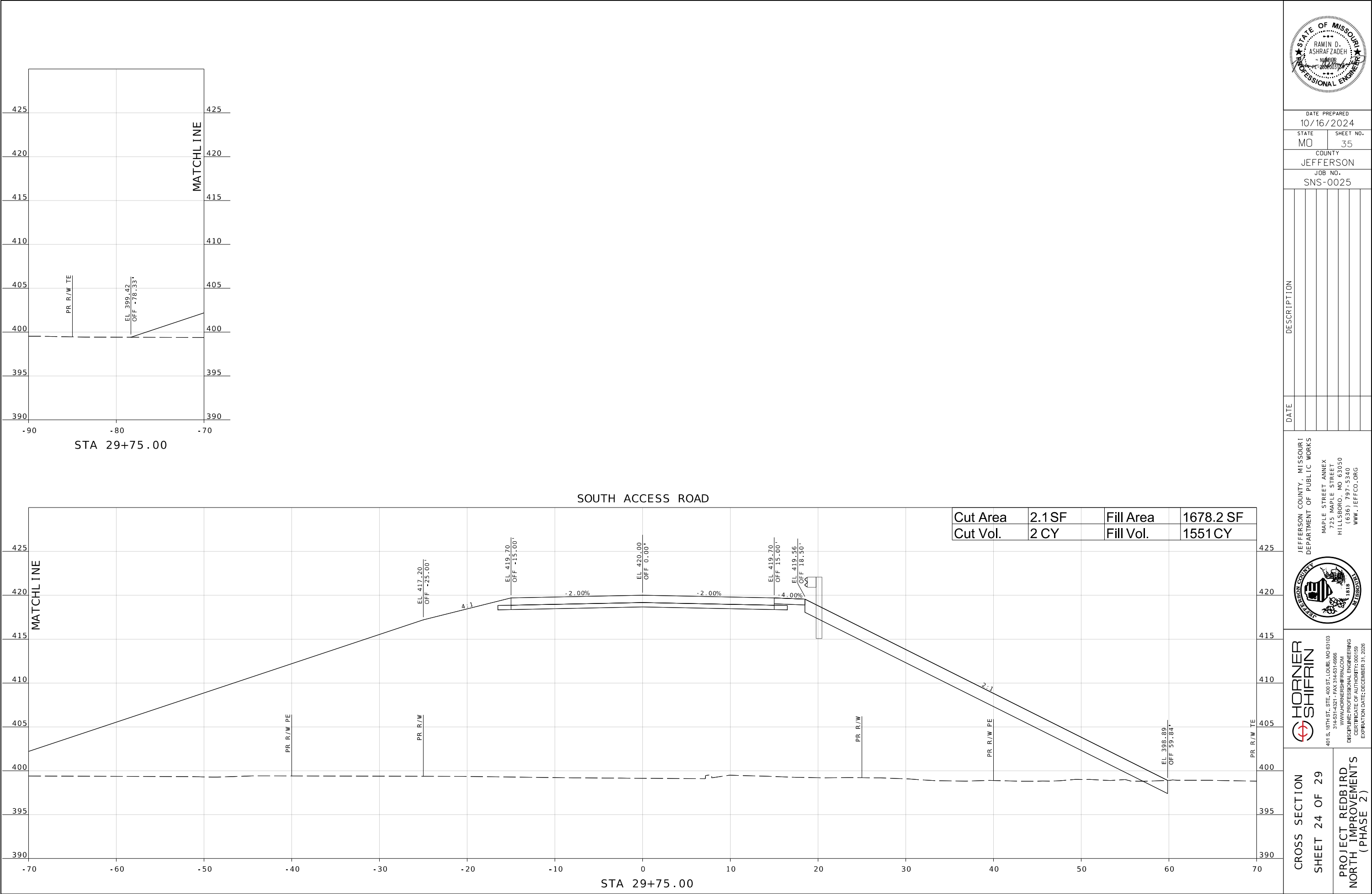
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CROSS SECTION
SHEET 23 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)



DATE PREPARED
10/16/2024

STATE MO	SHEET NO. 35
COUNTY JEFFERSON	
JOB NO. SNS-0025	

DATE	DESCRIPTION

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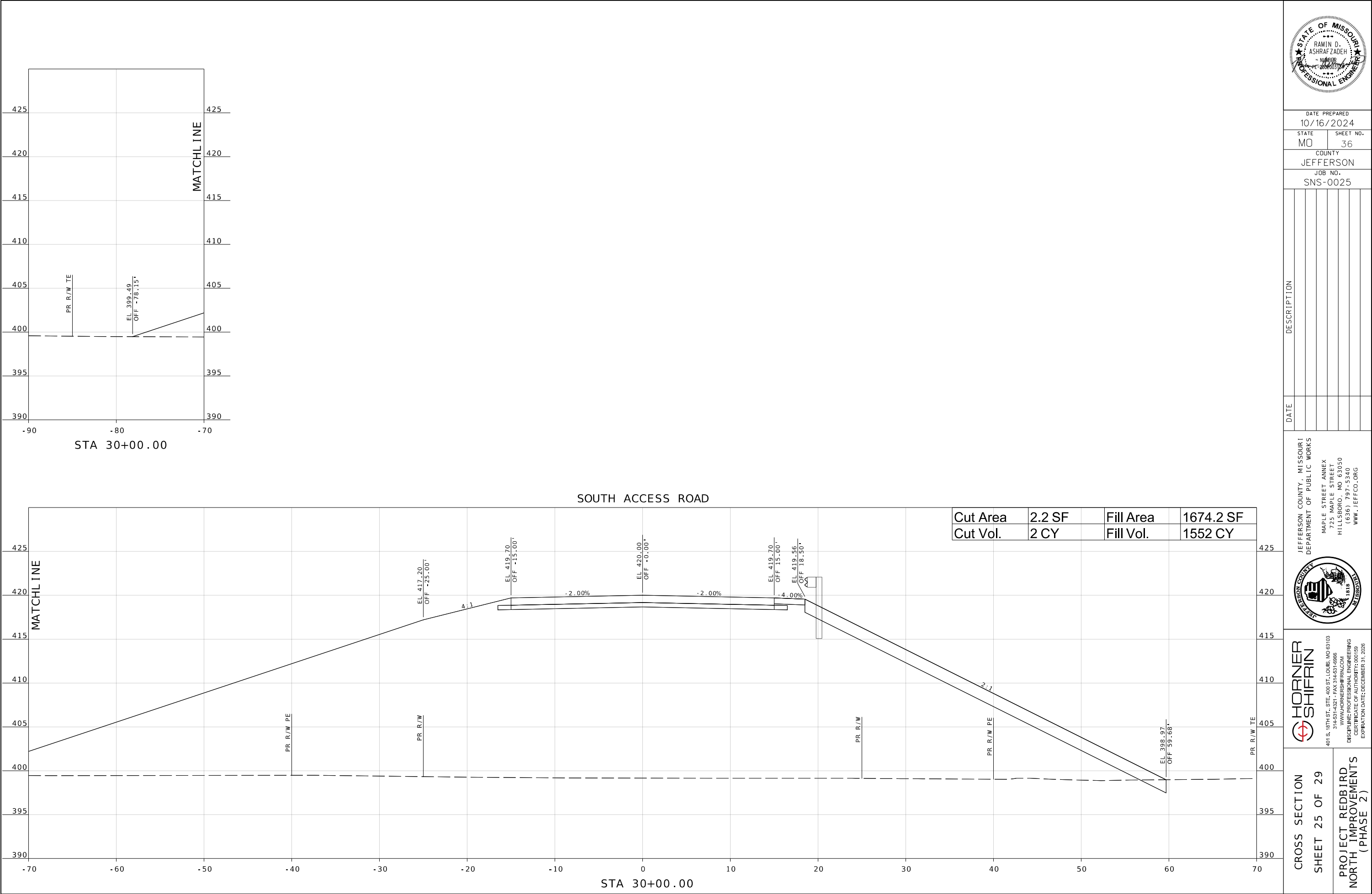


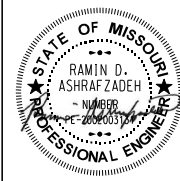
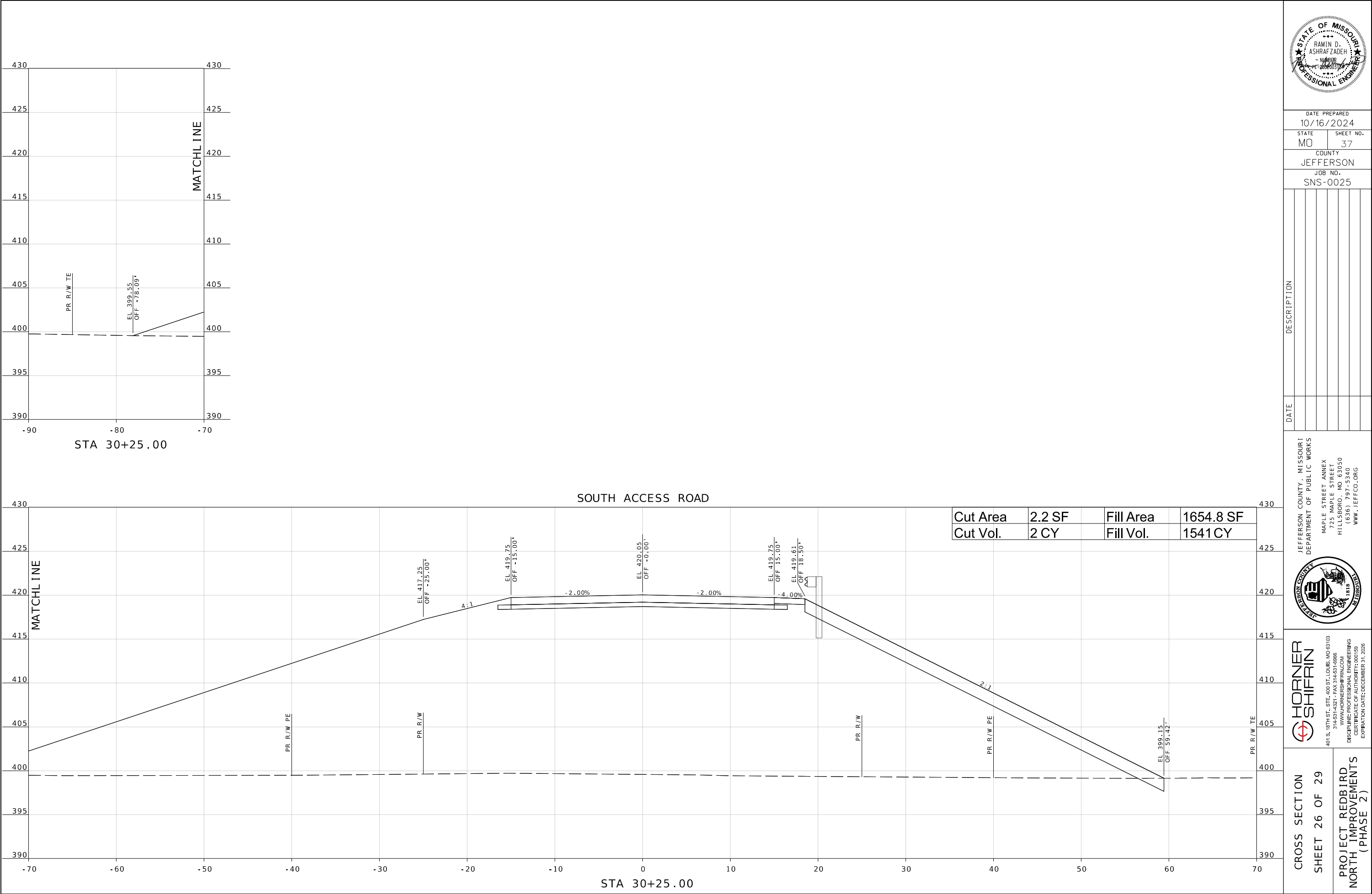
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EXPIRATION DATE: DECEMBER 31, 2026

CROSS SECTION
SHEET 24 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

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DATE PREPARED
10/16/2024

STATE	SHEET NO.
MO	37

COUNTY
JEFFERSON

JOB NO.
SNS-0025

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
DEPARTMENT OF PUBLIC WORKS

MAPLE STREET ANNEX
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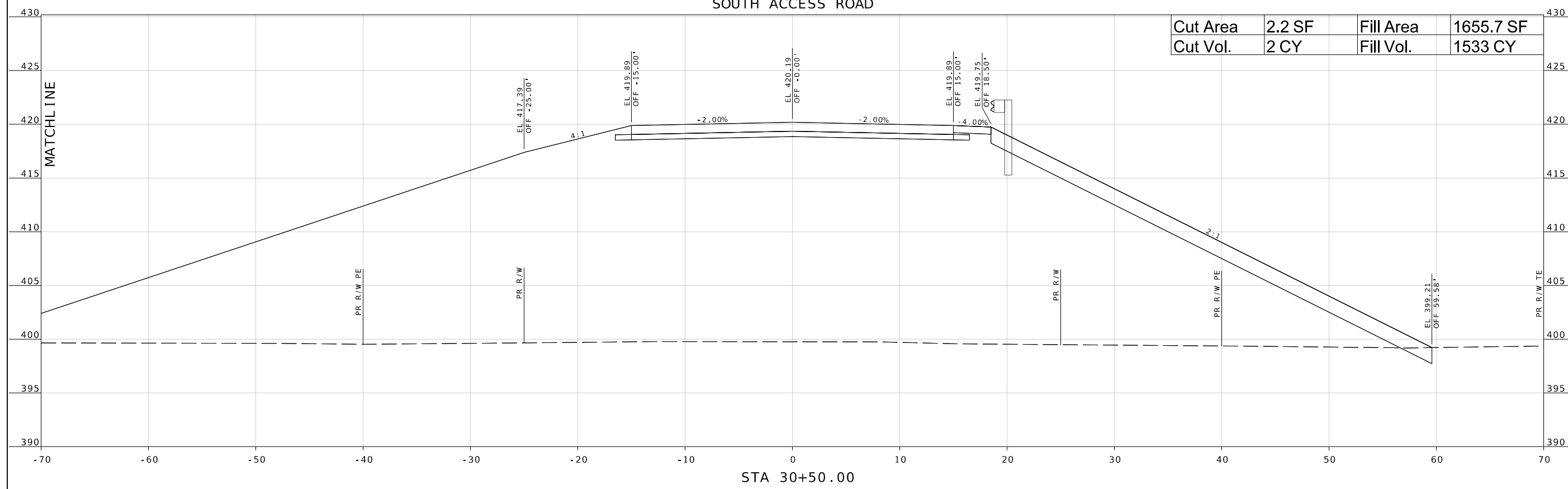
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CERTIFICATE OF AUTHORITY: 000159
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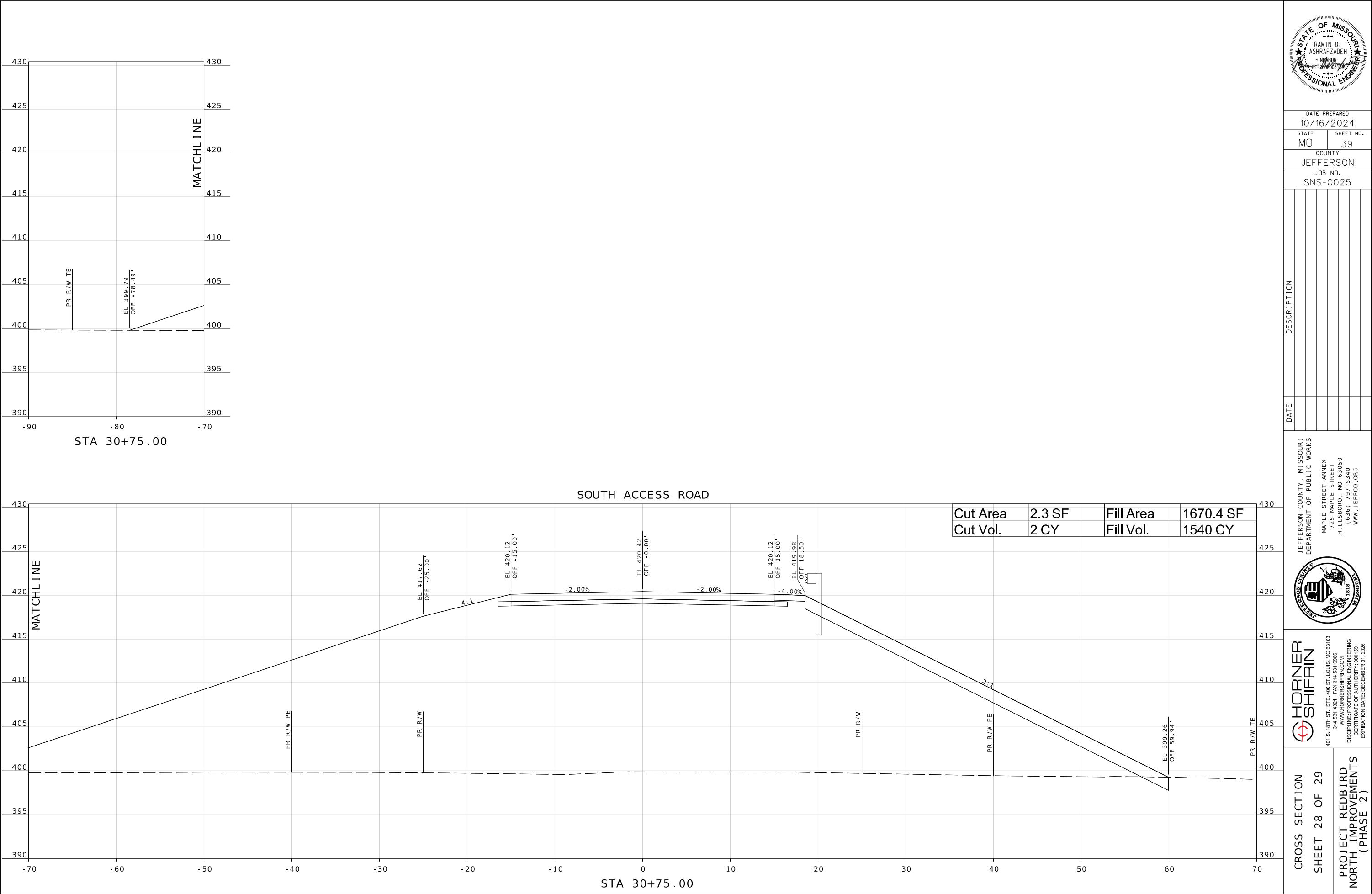
CROSS SECTION
SHEET 26 OF 29

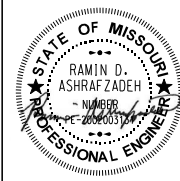
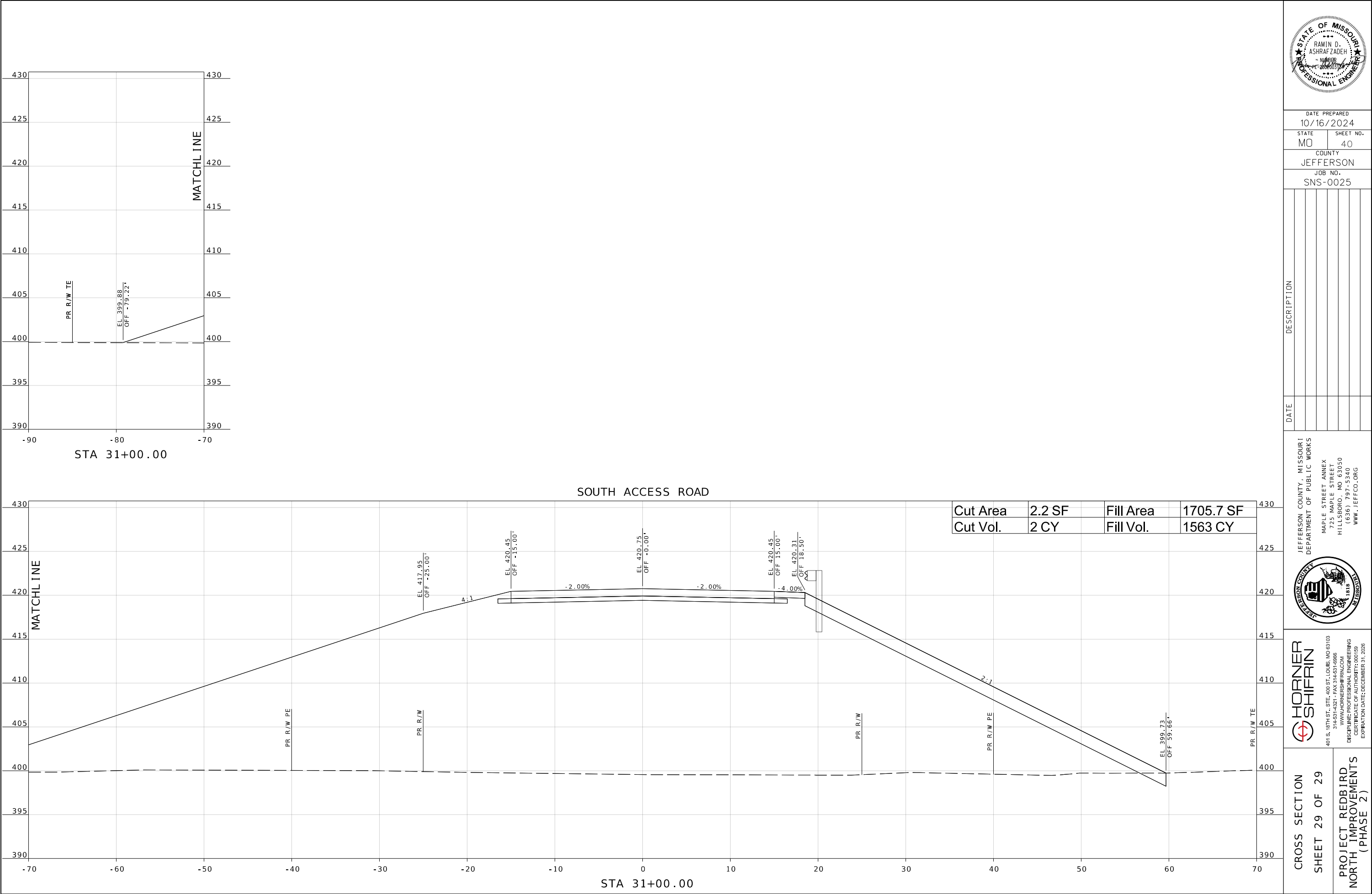
PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



Cut Area	2.2 SF	Fill Area	1655.7 SF
Cut Vol.	2 CY	Fill Vol.	1533 CY





DATE PREPARED
10/16/2024

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MO	40

COUNTY
JEFFERSON

JOB NO.
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DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

CROSS SECTION
SHEET 29 OF 29

PROJECT REDBIRD
NORTH IMPROVEMENTS
(PHASE 2)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.