

UTILITY CONTACTS:

TELEPHONE - AT&T
GLENN HOGENMILLER
122 N. SECOND ST.
FESTUS, MO 63028
OFFICE: 636-931-7525

ELECTRIC - AMEREN
BILL ROSENER
6450 HWY. MM
HOUSE SPRINGS, MO 63051
OFFICE: 636-671-6162

FIBER OPTIC - CENTURYLINK
MARCIA GAY
1151 CENTURYTEL DR.
P.O. BOX 751
WENTZVILLE, MO 63385
OFFICE: 636-332-7261

GAS - SPIRE
BRIAN LANGENBACHER
4118 SHREVEBURY AVE
SHREVEBURY, MO 63119
OFFICE: 314-768-7767

WATER - JEFFERSON COUNTY PWSO 10
KEITH FLAM
P.O. BOX 910
IMPERIAL, MO 63052
OFFICE: 636-467-6953

SEWER - ROCK CREEK
JASON SEGER
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ARNOLD, MO 63010
OFFICE: 636-461-2578

TRAFFIC - MODOT TRAFFIC
YAN GLUZMAN
14301 SOUTH OUTER FORTY
CHESTERFIELD, MO 63017
OFFICE: 314-453-5045

ITS - MODOT ITS
14301 SOUTH OUTER FORTY
CHESTERFIELD, MO 63017
OFFICE: 314-275-1500

GRAPHIC / SYMBOL LEGEND (USED IN PLANS)

DESCRIPTION	EXISTING	NEW
RIGHT-OF-WAY	---	---
PROPERTY LINE	---	---
PERMANENT UTILITY EASEMENT	---	PUE
PERMANENT SIDEWALK EASEMENT	---	PSE
TEMPORARY CONSTRUCTION EASEMENT	---	TCE
UTILITY POLE (TYPE SPECIFIED)	⊙	⊙
UNDERGROUND CONDUIT OR CABLE (TYPE SPECIFIED)	---	---
T-TELEPHONE P-POWER TV-TELEVISION	---	---
OVERHEAD UTILITY LINE (TYPE SPECIFIED)	---	---
T-TELEPHONE OH-POWER W-WATER	---	---
LIGHT STANDARD	⊙	⊙
TRAFFIC FULL BOX	⊙	⊙
GAS LINE	---	---
GAS VALVE	⊙	⊙
WATER LINE	---	---
WATER SERVICE VALVE	⊙	⊙
WATER METER	⊙	⊙
FIRE HYDRANT	⊙	⊙
SANITARY SEWER	---	---
STORM SEWER	---	---
SEWER MANHOLE	⊙	⊙
GRADED INLET	⊙	⊙
CURB INLET/ AREA INLET	⊙	⊙
CURB INLET (MULTIPLE UNIT)	⊙	⊙
IDENT. OF NEW OR MOD. SANITARY STRUCTURE	⊙	⊙
IDENT. OF NEW OR MOD. STORM STRUCTURE	⊙	⊙
PIPE WITH HEADWALLS	---	---
DRAINAGE V-DITCH (SODDED)	---	---
DRAINAGE FLAT BOTTOM DITCH (SODDED)	---	---
DRAINAGE V-DITCH (PAVED)	---	---
DRAINAGE FLAT BOTTOM DITCH (PAVED)	---	---
CONSTRUCTION LIMITS	---	---
CONCRETE PAVEMENT	---	---
ASPHALTIC CONCRETE PAVEMENT	---	---
PAVEMENT REMOVAL	---	---
TREE OR SHRUB	---	---
HEDGE	---	---
FENCE	---	---
SIGN	---	---
BUILDING	---	---
MAILBOX (WB)	---	---
TO BE REMOVED	(TBR)	
TO BE ABANDONED	(TBA)	
USE IN PLACE	(UIP)	
TO BE REMOVED AND REPLACED	(TBR&R)	
TO BE REMOVED AND RELOCATED	(TBR&REL)	
ADJUST TO GRADE	(ATG)	
TO BE REMOVED AND REPLACED BY OTHERS	(TBR&RELBO)	
TO BE ABANDONED AND FILLED	(TBA&F)	
ADJUST TO GRADE BY OTHERS	(ATGBO)	
CUT CROSS	CROSS	
FOUND CROSS	OCR	
FOUND IRON PIPE	OIP	
FOUND IRON ROD	OIR	
FOUND STONE	OST	
SET P.K. NAIL	PK	
SET IRON PIPE	SIP	
DO NOT DISTURB	(DND)	
MAN-OLE	MH	
BENCHMARK	⊙	
REFERENCE POINT	⊙	

JEFFERSON COUNTY MISSOURI

JASON JONAS, P.E.
DIRECTOR OF PUBLIC WORKS

IMPERIAL MAIN STREET IMPROVEMENTS FEDERAL PROJECT NUMBER: STP-5403(662) CONSTRUCTION PLANS



VICINITY MAP
NOT TO SCALE

SECTION 17, TOWNSHIP 42 NORTH, RANGE 6 EAST

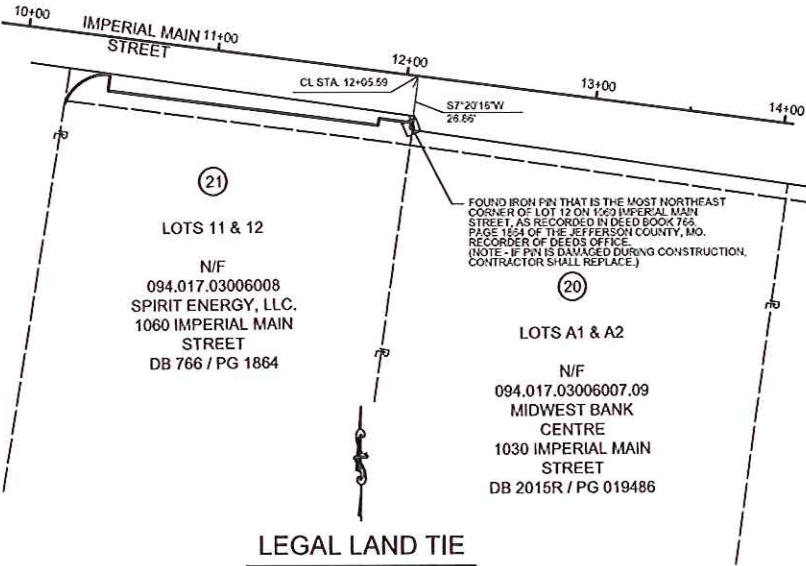
PREPARED FEBRUARY 2, 2018

SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE. ONLY, IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

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DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
CURRENT POSTED SPEED	25 MPH
DESIGN SPEED	25 MPH
CURRENT ADT	12,015
FUTURE ADT (2034)	19,688

LENGTH OF PROJECT

BEGINNING OF PROJECT (IMPERIAL MAIN)	STA. 9+93.10
END OF PROJECT (IMPERIAL MAIN)	STA. 21+01.39
BEGINNING OF PROJECT (RIVER ST.)	STA. 30+26.30
END OF PROJECT (RIVER ST.)	STA. 33+62.07
APPARENT LENGTH (IMPERIAL MAIN)	1108.29 FEET
APPARENT LENGTH (RIVER ST.)	335.77 FEET
TOTAL CORRECTIONS	0.0
NET LENGTH OF PROJECT	1444.06 FEET

DESIGN CRITERIA USED:
AASHTO, MODOT AND JEFFERSON COUNTY

APPROVED BY:
JEFFERSON COUNTY, MISSOURI
JASON JONAS, P.E.
DIRECTOR OF PUBLIC WORKS
4/17/18
DATE

ENGINEER'S SEAL

STATE OF MISSOURI
JOHN E. KLEIN
NUMBER 2009030035
PROFESSIONAL ENGINEER
4/30/2018

DATE PREPARED
2/2/2018

ROUTE
MAIN
DISTRICT
1

STATE
MO
SHEET NO.
1

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

DESCRIPTION

DATE

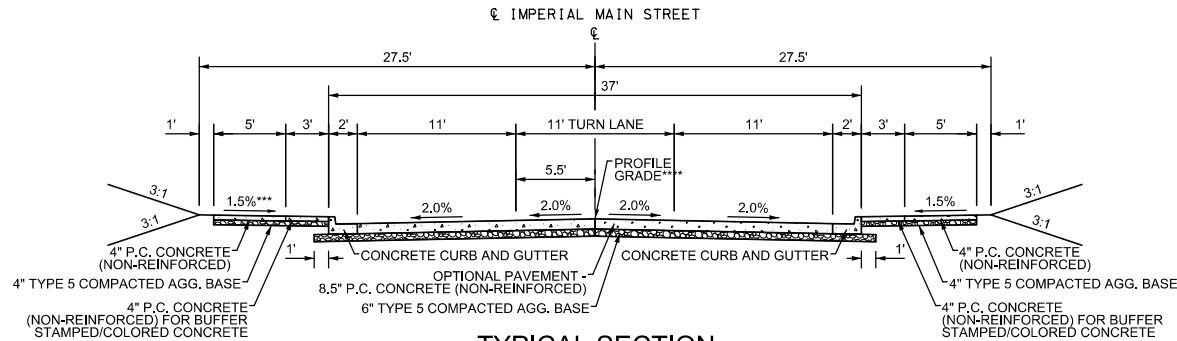
JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-787-5340
www.jeffco.org

JEFFERSON COUNTY, MISSOURI
401 S. 9TH ST., 3RD FLOOR, ST. LOUIS, MO 63103
314-453-1421 • FAX 314-453-6865
WWW.JEFFERSONCOUNTYMO.GOV
DISCLAIMER: THE INFORMATION CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE A CONTRACT. THE USER ASSUMES ALL LIABILITY FOR THE USE OF THIS INFORMATION. EXPIRATION DATE: DECEMBER 31, 2018

TITLE SHEET
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

REV.

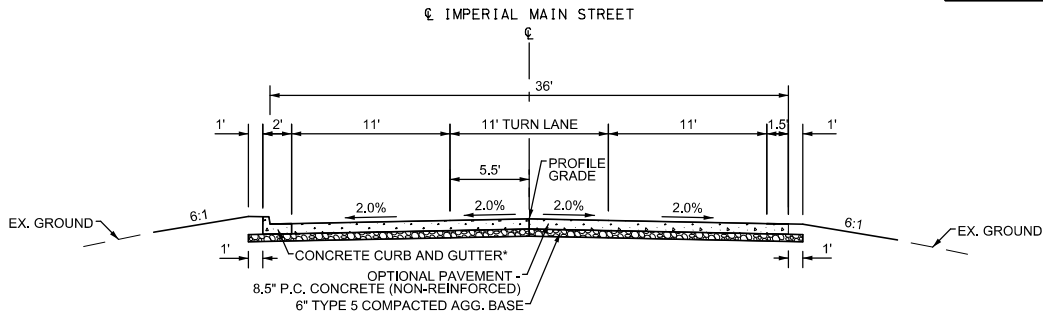
OPTION 1



TYPICAL SECTION
IMPERIAL MAIN STREET

STA. 10+22.20 - STA. 18+36.14

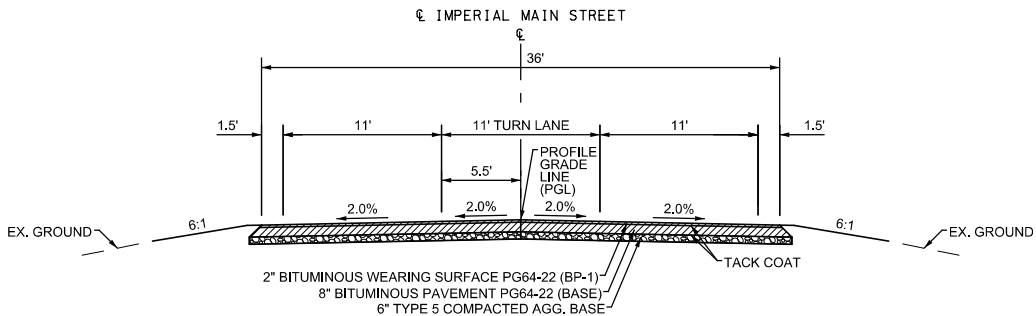
- * 1.5' BUFFER FROM STA. 15+03.28 TO STA. 16+94.46
- * 2' BUFFER FROM STA. 17+31.49 TO STA. 18+28.28
- ** NO BUFFER FROM STA. 11+87.47 TO STA. 12+25.96
- ***TRANSITION SIDEWALK SLOPE FROM +1.50% TO -1.50% FROM STA. 15+46.56 TO STA. 15+53.56
- ****PGL OFFSET 0' RT TO 5.5' RT FROM STA. 16+00.00 TO STA. 16+47.06
- ****PGL OFFSET 5.5' RT TO 0' RT FROM STA. 17+39.27 TO STA. 17+75.00
- ****SEE SHEET 12 FOR DETAILED GRADING/SLOPES



TYPICAL SECTION
IMPERIAL MAIN STREET

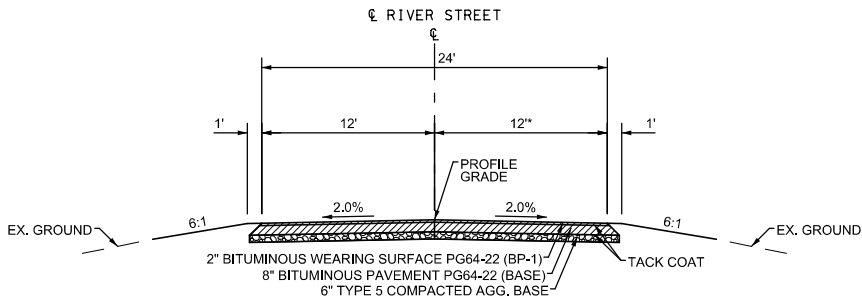
STA. 18+36.14 - STA. 19+03.41
STA. 19+24.31 - STA. 21+01.40

*NO CONCRETE CURB AND GUTTER FROM STA. 19+24.31 TO STA. 19+74.11 LT SIDE
CONCRETE CURB AND GUTTER FROM STA. 19+38.12 TO STA. 19+77.78 RT SIDE



TYPICAL SECTION
IMPERIAL MAIN STREET

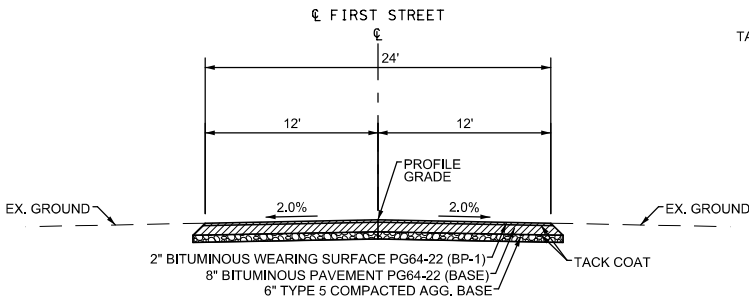
STA. 19+03.41 - STA. 19+08.58
STA. 19+19.27 - STA. 19+24.31



TYPICAL SECTION
RIVER STREET

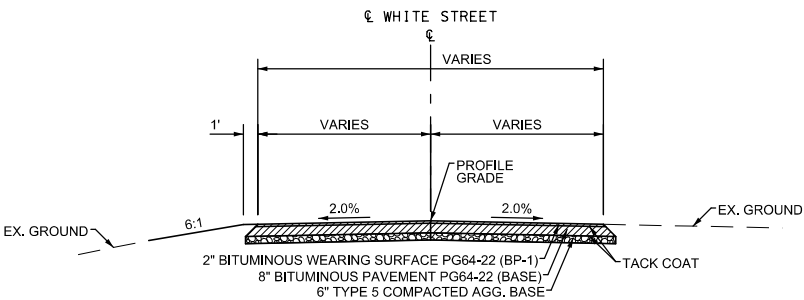
STA. 30+27.13 - STA. 33+62.07

*TRANSITION RT LANE FROM 15.74' TO 12' FROM STA. 30+88.46 TO STA. 31+37.08



TYPICAL SECTION
FIRST STREET

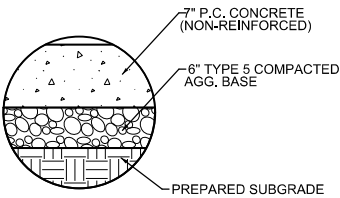
STA. 70+55.00 - STA. 70+82.00



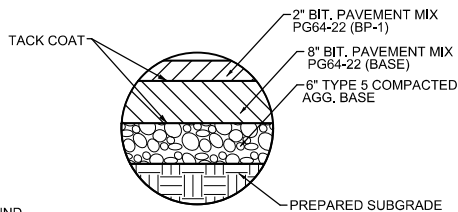
TYPICAL SECTION
WHITE STREET

STA. 90+35.00 - STA. 90+81.35

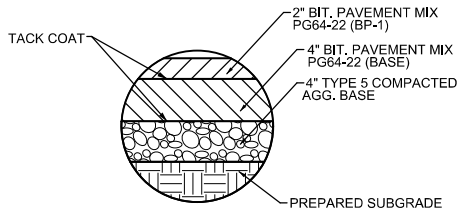
OPTION 1 - RIGID PAVEMENT
8.5" PCP
6" TYPE 5 COMPACTED AGG. BASE



COMMERCIAL
CONCRETE ENTRANCE



COMMERCIAL
ASPHALT ENTRANCE
AND PARKING LOTS



RESIDENTIAL
ASPHALT ENTRANCE

GENERAL NOTES:

1. ALL REMOVALS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, EXCEPT AS NOTED IN THE PLANS AND SUPPLEMENTAL SPECIFICATIONS.
2. EARTH SLOPES SHALL NOT EXCEED 3:1 (HORIZONTAL:VERTICAL).
3. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO PROTECT ADJOINING PROPERTY FROM DAMAGE.
4. ALL MATERIAL REMOVED DURING GRADING OPERATIONS, INCLUDING RUBBISH, SHALL BE DISPOSED OFF THE SITE BY THE CONTRACTOR IN ACCORDANCE WITH STATE, COUNTY AND LOCAL ORDINANCES.
5. SUBGRADE COMPACTION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONCRETE PAVEMENT, ASPHALT PAVEMENT, AND ASPHALT OR CONCRETE SIDEWALK/PATH. DIRECT PAYMENT WILL NOT BE MADE FOR SUBGRADE COMPACTION.
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7. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FEDERAL HIGHWAY'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."
8. ALL PAVEMENT ADJACENT TO FEATURES TO REMAIN IN PLACE, SHALL BE SAWCUT PRIOR TO REMOVAL. ALL SAWCUTS SHALL BE INCIDENTAL TO CONSTRUCTION; DIRECT PAYMENT WILL NOT BE MADE FOR SAWCUTS.
9. UPON REQUEST, HORNER & SHIFRIN SHALL PROVIDE THE CONTRACTOR WITH A COPY OF THE ELECTRONIC DRAWINGS FOR CONSTRUCTION STAKING PURPOSES.
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13. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY BUSINESS SIGNAGE IF AFFECTED AND SHALL BE CONSIDERED INCIDENTAL.
14. THE CONTRACTOR SHALL NOTIFY EACH AFFECTED PROPERTY OWNER A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
15. CONTRACTOR SHALL ADJUST TO GRADE ALL WATER METERS VAULTS, METER LIDS, AND WATER VALVE BOXES.
16. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES AND TEMPORARY DRAINAGE FOR LOW AREAS DURING CONSTRUCTION SHALL BE PROVIDED AND SHALL BE CONSIDERED INCIDENTAL.
17. TACK COAT SHALL BE PLACED BETWEEN ALL LIFTS OF ASPHALT. TWO COATS OF TACK COAT SHALL BE PLACED FOR ALL ROADS, EXCEPT ONLY ONE COAT SHALL BE PLACED FOR RESIDENTIAL DRIVEWAYS.

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE
MAIN
DISTRICT
SHEET NO.
2

COUNTY
JEFFERSON
JOB NO.
1534600
CONTRACT ID.

PROJECT NO.
STP-5403(662)
BRIDGE NO.

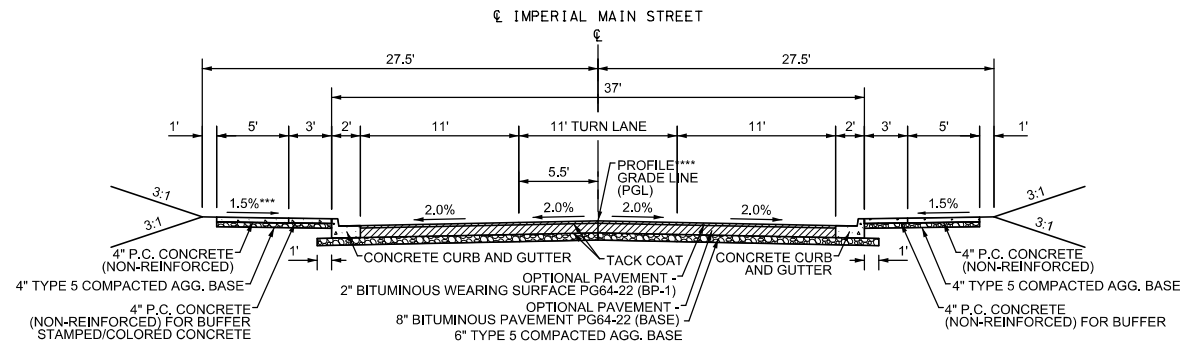
DESCRIPTION	DATE

JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcommo.org

HORNER
SHIFRIN
401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-6969
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

TYPICAL SECTIONS & DETAILS
SHEET 1 OF 4
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

OPTION 2



TYPICAL SECTION
IMPERIAL MAIN STREET

STA. 10+22.20 - STA. 18+36.14

* 1.5' BUFFER FROM STA. 15+03.28 TO STA. 16+94.46

* 2' BUFFER FROM STA. 17+31.49 TO STA. 18+28.28

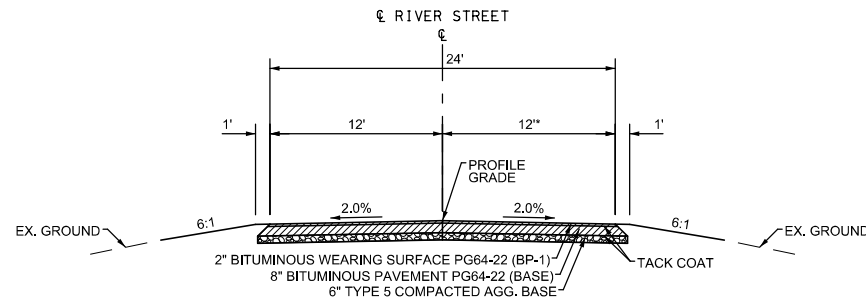
** NO BUFFER FROM STA. 11+87.47 TO STA. 12+25.96

***TRANSITION SIDEWALK SLOPE FROM +1.50% TO -1.50% FROM STA. 15+46.56 TO STA. 15+53.56
****BCL OFFSET 0' RT TO 5.5' RT FROM STA. 16+00.00 TO STA. 16+17.06

****PGL OFFSET 5.5' BT TO 0' BT FROM STA. 17+39.27 TO STA. 17+75.00

***SEE SHEET 12 FOR DETAILED GRADING/SLOPES

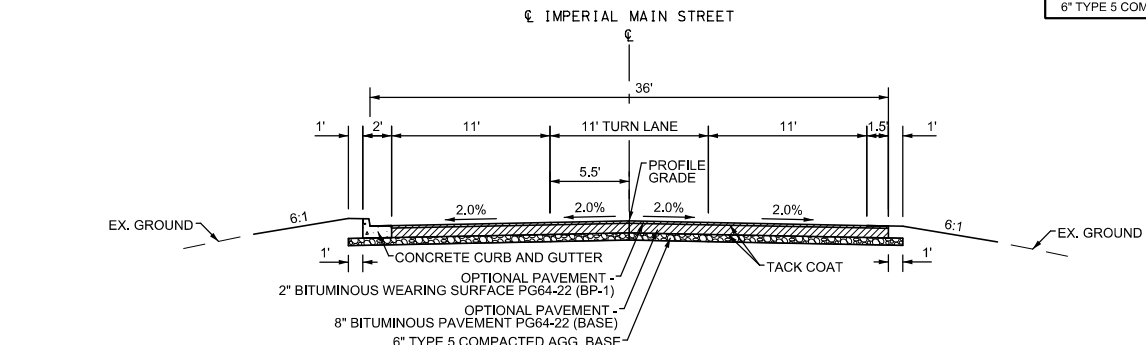
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RIVER STREET

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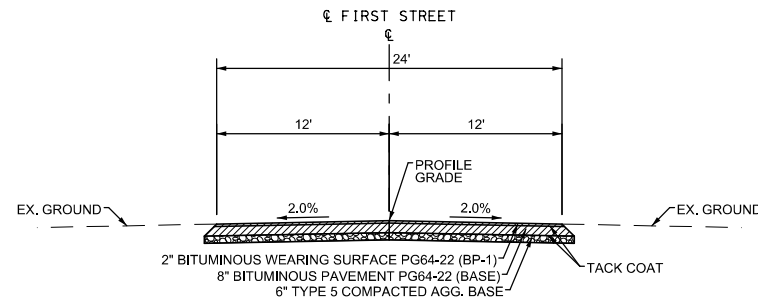
TYPICAL SECTION
IMPERIAL MAIN STREET

STA. 18+36.14 - STA. 21+01.40

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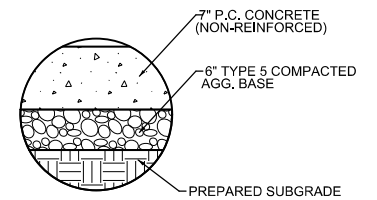
CONCRETE CURB AND GUTTER FROM STA. 19+38.12 TO STA. 19+77.78 RT SIDE

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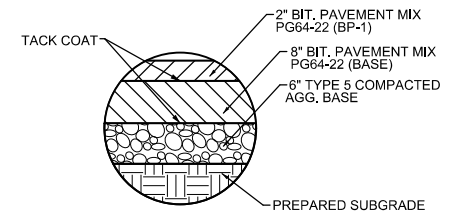


TYPICAL SECTION
FIRST STREET

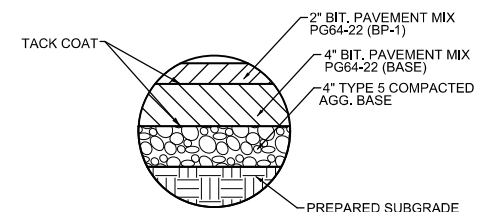
STA. 70+55.00 - STA. 70+82.00



COMMERCIAL
CONCRETE ENTRANCE



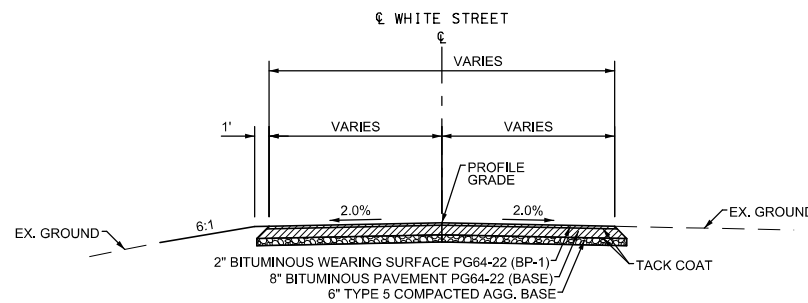
COMMERCIAL
ASPHALT ENTRANCE
AND PARKING LOTS



RESIDENTIAL
ASPHALT ENTRANCE

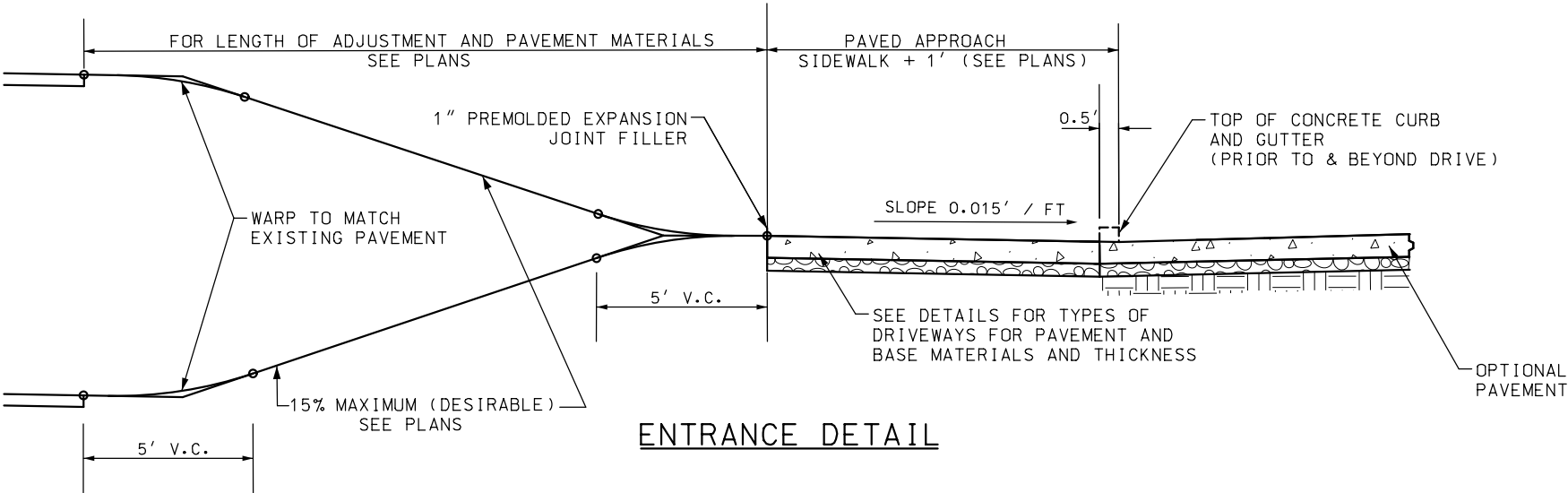
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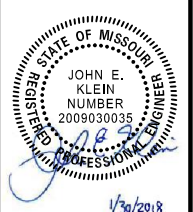


TYPICAL SECTION
WHITE STREET

STA. 90+35.00 - STA. 90+81.35



ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 2

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffco.mo.org

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

TYPICAL SECTIONS & DETAILS
SHEET 3 OF 4
**IMPERIAL MAIN STREET
IMPROVEMENTS**
JEFFERSON COUNTY, MISSOURI

SUMMARY OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
	ROADWAY ITEMS		
2013000	CLEARING AND GRUBBING	ACRES	0.3
2022010	REMOVAL OF IMPROVEMENTS	L.S.	1
2031000	CLASS A EXCAVATION	C.Y.	4917
2036000	COMPACTING EMBANKMENT	C.Y.	41
3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	S.Y.	395
3040506	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)	S.Y.	8284
3101002	GRAVEL (A)	S.Y.	149
4011209	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	TONS	263.0
4013000	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	TONS	1015.3
4019905	OPTIONAL PAVEMENT	S.Y.	4429.7
4071005	TACK COAT	GAL	230
5021107	CONCRETE PAVEMENT (7 IN. NON-REINF)	S.Y.	837.2
5021107A	CONCRETE PAVEMENT (7 IN. NON-REINF) - EXPOSED AGGREGATE	S.Y.	86.6
5029905	STAMPED CONCRETE	S.Y.	265.9
6039902	ADJUST WATER VALVE TO GRADE	EACH	5
6039903	ADJUST WATER METER TO GRADE	EACH	3
6042010	ADJUSTING MANHOLE	EACH	1
6042020	ADJUST INLET TO GRADE	EACH	2
6044011	PIPE COLLAR, TYPE "A" (CONCRETE)	EACH	1
6083006	6 IN. CONCRETE MEDIAN STRIP	S.Y.	15
6086005	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	L.F.	970
6089902	WHEEL STOP	EACH	6
6091041	CONCRETE GUTTER TYPE A	L.F.	13
6091051	CURB AND GUTTER TYPE A	L.F.	1807
6092011	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A	L.F.	247
6092011A	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A - EXPOSED AGGREGATE	L.F.	78
6092021	INTEGRAL CURB (OVER 6 IN. HEIGHT) TYPE A	L.F.	101
6093010	ASPHALT CURB	L.F.	67
6141120	CURVED VANE GRATE AND FRAME (2 FT. x 2 FT. OR 600 MM x 600 MM)	L.F.	4
6143010	MANHOLE FRAME AND COVER, TYPE 1-A	EACH	1
6143012	MANHOLE FRAME AND COVER, TYPE 2	EACH	1
6149902	STEEL GRATE	EACH	2
6149902A	STEEL GRATE WITH SIDE INTAKE	EACH	2
6161005	CONSTRUCTION SIGNS	S.F.	546
6161009	FLAG ASSEMBLY	EACH	5
6161025	CHANNELIZER (TRIM LINE)	L.F.	36
6161030	TYPE III MOVEABLE BARRICADE	EACH	8
6161096	CHANGEABLE MESSAGE SIGN WITHOUT COMMUNICATION INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED	EACH	2
6181000	MOBILIZATION	L.S.	1
6214600A	FLOWABLE BACKFILL	C.Y.	25
6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	L.S.	1
7119901	WATERPROOFING SYSTEMS AND ARCHITECTURAL PANELS	L.S.	1
7209903	MODULAR BLOCK RETAINING WALL	S.F.	276
7269903	12" CLASS V REINFORCED CONCRETE PIPE	L.F.	210
7269904	15" CLASS V REINFORCED CONCRETE PIPE	L.F.	95
7269905	14"x23" CLASS V REINFORCED HORIZONTAL ELLIPTICAL CONCRETE PIPE CULVERT	L.F.	4
7311022	PRECAST DROP INLET 2 FT X 2 FT	L.F.	9
7310048	PRECAST CONCRETE MANHOLE (48")	L.F.	5
8051000A	SEEDING - COOL SEASON MIXTURES	ACRES	0.2
8061016	SEDIMENT REMOVAL	C.Y.	3
8061017	TEMPORARY SEEDING AND MULCHING	ACRES	0.1
8061019	SILT FENCE	L.F.	286
8069903	INLET PROTECTION - FIBER ROLLS	L.F.	25

SUMMARY OF QUANTITIES (CONTINUED)			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
	SIGNALS/STRIPING:		
6200021	PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW	EACH	9
6200026	PREFORMED THERMOPLASTIC PAVEMENT MARKING, COMBINATION STR/LT/RT	EACH	4
6200033	PREFORMED THERMOPLASTIC PAVEMENT MARKING, R/R CROSSING MARKER	EACH	2
6205906A	12 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS	L.F.	380
6206000C	4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS	L.F.	3210
6206001C	4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS	L.F.	2660
6206124A	24 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS	L.F.	270
6206176A	6 IN., WHITE ACRYLIC COPOLYMER FAST DRY PAVEMENT MARKING PAINT	L.F.	20
6207001	PAVEMENT MARKING REMOVAL	L.F.	110
6208077	4 IN YELLOW TEMPORARY PAVEMENT MARKING	L.F.	221
9020513	SIGNAL HEAD, TYPE 3B	EACH	10
9020514	SIGNAL HEAD, TYPE 4B	EACH	2
9020833	SH-FLAT SHEET - SIGNAL SIGN	S.F.	89
9022650	150 WATT 120 VOLT HIGH PRESSURE SODIUM LUMINAIRE	EACH	2
9023130	POST, TYPE CL, 30 FT ARM	EACH	1
9023240	POST, TYPE C, 40 FT ARM	EACH	1
9023355	POST, TYPE B, LONGEST ARM 55 FT	EACH	1
9024283	CONTROLLER ASSEMBLY HOUSING, NEMA TS2 CONTROLLER	EACH	1
9024975	VIDEO DETECTION SYSTEM	EACH	1
9055300	CONDUIT, 3 IN., TRENCH WITH RACER WIRE	L.F.	205
9027200	CONDUIT, 2 IN., PUSHED WITH TRACER WIRE	L.F.	143
9027300	CONDUIT, 3 IN., PUSHED WITH TRACER WIRE	L.F.	89
9028100	CABLE, 10 AWG 1 CONDUCTOR, POLE, AND BRACKET	L.F.	270
9028208	CABLE, 8 AWG 1 CONDUCTOR, POWER	L.F.	50
9028302	CABLE, 12 AWG 2 CONDUCTOR	L.F.	470
9028311	CABLE, 16 AWG 7 CONDUCTOR	L.F.	2050
9028312	CABLE, 12 AWG 12 CONDUCTOR	L.F.	280
9028621	POWER SUPPLY ASSEMBLY, TYPE 2 WITH 120V LIGHTING	EACH	1
9028811	PULL BOX, PREFORMED CLASS 2	EACH	3
9028812	PULL BOX, PREFORMED CLASS 3	EACH	1
9029100	BASE, CONCRETE	C.Y.	12.15
9029901	MISC - REMOVE AND RELOCATE EXISTING PTZ CAMERA DN WIRELESS INTERFACE INTERCONNECT	L.S.	1
9029902	MISC - RELOCATE TRAFFIC SIGNAL SIGNS	EACH	4
	LIGHTING:		
9017002	CABLE, 2 AWG 1 CONDUCTOR	L.F	120
9017006	CABLE, 6 AWG 1 CONDUCTOR	L.F	2446
9017008	CABLE, 8 AWG 1 CONDUCTOR	L.F	2155
9017010	CABLE, 10 AWG 1 CONDUCTOR	L.F	5324
9019902	STERNBERG LIGHT FIXTURE WITH VALMONT POLE WITH BANNER ARMS AND BUILT IN REC.	EACH	18
9019903	CONDUIT, 3/4" IN. RIGID, IN TRENCH	L.F	946
9019904	CONDUIT, 1" IN. RIGID, IN TRENCH	L.F	645
9019905	CONDUIT, 1 1/4" RIGID, IN TRENCH	L.F	85
9019906	100A, 120/240V, METERED LIGHTING PEDESTAL	EACH	1
9029100	BASE, CONCRETE	C.Y.	10
	PEDESTRIAN FACILITIES:		
3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	S.Y.	673
6081010	CONCRETE CURB RAMP	S.Y.	131
6081010A	CONCRETE CURB RAMP - EXPOSED AGGREGATE	S.Y.	5
6081012	TRUNCATED DOMES	S.F.	84
6086004	CONCRETE SIDEWALK (4 IN. THICK)	S.Y.	504
6086004A	CONCRETE SIDEWALK (4 IN. THICK) - EXPOSED AGGREGATE	S.Y.	32

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE
MAIN

STATE
MO

DISTRICT

SHEET NO.
2A

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

DESCRIPTION

DATE

JEFFERSON COUNTY, MISSOURI



MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcomo.org

HORNER SHIFRIN



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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

SUMMARY OF QUANTITIES
SHEET 1 OF 1

IMPERIAL MAIN STREET
IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI

REV.

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2/2/2018

BITUMINOUS PAVEMENT															
PLAN SHEET	LOCATION	STATION	STATION	SIDE	2" BITUMINOUS WEARING SURFACE PG64-22 (BP-1)		4" BITUMINOUS PAVEMENT PG64-22 (BASE)		8" BITUMINOUS PAVEMENT PG64-22 (BASE)		TYPE 5 AGGREGATE BASE (6")	TYPE 5 AGGREGATE BASE (4")	TACK-EMULSIFIED ASPHALT (SS-1H)		REMARKS
					VOLUME (CY)	TONS	VOLUME (CY)	TONS	VOLUME (CY)	TONS	AREA (SY)	AREA (SY)	AREA (SY)	VOLUME (GAL)	
3	IMPERIAL MAIN ST.	10+26.43	10+72.93	LT	1.4	2.8			5.3	11.1	25.4		25.4	2.5	
3	IMPERIAL MAIN ST.	11+83.16	14+93.80	LT	3.4	6.8			12.8	26.9	61.4		61.4	6.1	
3	IMPERIAL MAIN ST.	12+30.45	13+80.48	RT	6.4	12.8			23.8	50.0	114.4		114.4	11.4	
4	IMPERIAL MAIN ST.	15+82.08	18+23.47	RT	11.8	23.6			44.2	88.4	212.2		212.2	21.2	
4	IMPERIAL MAIN ST.	19+03.41	19+24.31	BOTH	2.3	4.6			9.1	19.1	40.8		40.8	4.1	
4	FIRST ST.	70+55.00	70+74.81	BOTH	5.0	10.0			19.9	39.8	89.4		89.4	8.9	
4	WHITE ST.	90+35.00	90+81.86	BOTH	10.1	20.2			40.3	84.6	181.2		181.2	18.1	
5	RIVER ST.	30+26.30	33+62.07	BOTH	62.1	124.2			247.7	495.4	1114.8		1114.8	111.5	
5	RIVER ST.	30+34.13	31+57.68	RT	22.3	44.6			81.5	171.2	390.1		385.2	38.5	
5	RIVER ST.	31+50.11	33+39.67	LT	4.8	9.6	9.7	20.4				89.7	84.9	4.2	
5	RIVER ST.	32+78.75	33+28.43	RT	1.9	3.8	4.0	8.4				39.1	34.3	1.7	
			CONVERSION FACTOR				2.1 TONS/CY		2.1 TONS/CY		2.1 TONS/CY			0.05 GAL/SY	
				TOTALS		263.0		28.8		986.5	2229.7	128.8		228.2	
				USE		263.0		28.8		986.5	2230	129		230	

STAMPED CONCRETE						
PLAN SHEET	LOCATION	STATION	STATION	STAMPED CONCRETE	TYPE 5 AGGREGATE BASE (6")	REMARKS
				AREA (SY)	AREA (SY)	
3	IMPERIAL MAIN ST.	10+45.16	15+00.00	143.0	143.0	
4	IMPERIAL MAIN ST.	15+00.00	18+35.30	115.2	115.2	
			TOTALS	258.2	258.2	
			USE	258.2	258	

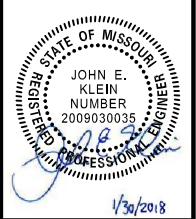
UTILITY ADJUSTMENT							
PLAN SHEET	LOCATION	STATION	SIDE	ADJUST MANHOLE TO GRADE	ADJUST WATER METER	ADJUST WATER VALVE TO GRADE	REMARKS
				(EACH)	(EACH)	(EACH)	
3	IMPERIAL MAIN ST.	11+85.78	LT		1		
3	IMPERIAL MAIN ST.	13+00.50	LT			1	
3	IMPERIAL MAIN ST.	13+50.20	LT		1		
4	IMPERIAL MAIN ST.	15+04.21	LT			1	
4	IMPERIAL MAIN ST.	15+96.04	RT				
4	IMPERIAL MAIN ST.	17+11.74	RT	1			
4	IMPERIAL MAIN ST.	17+29.32	RT			1	
4	IMPERIAL MAIN ST.	17+30.30	LT			1	
4	IMPERIAL MAIN ST.	18+50.71	RT				
5	RIVER ST.	30+40.62	RT			1	
5	RIVER ST.	30+94.70	RT		1		
			TOTALS	1	3	5	
			USE	1	3	5	

CONCRETE MEDIAN STRIP						
SHEET	LOCATION	STATION	STATION	SIDE	6" CONCRETE MEDIAN STRIP	REMARKS
					AREA (SY)	
5	IMPERIAL MAIN ST.	20+76.07	20+91.24	LT	15	
				TOTAL	15	
				USE	15	

WHEEL STOP						
PLAN SHEET	LOCATION	STATION	STATION	SIDE	WHEEL STOP	REMARKS
					EACH	
3	IMPERIAL MAIN ST.	10+28.93	10+29.66	LT	6	
				TOTAL	6	
				USE	6	

CONCRETE GUTTER					
PLAN SHEET	LOCATION	STATION	SIDE	CONCRETE GUTTER TYPE A	REMARKS
				LENGTH (LF)	
4	IMPERIAL MAIN ST.	15+96.32	LT	12.7	
			TOTAL	12.7	
			USE	13	

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE
MAIN

STATE
MO

DISTRICT

SHEET NO.
2B

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

DATE	DESCRIPTION					

JEFFERSON COUNTY, MISSOURI

MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcomo.org

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EXPIRATION DATE: DECEMBER 31, 2018

SCHEDULE OF QUANTITIES
SHEET 2 OF 4

IMPERIAL MAIN STREET IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI

CURB										
PLAN SHEET	LOCATION	STATION	STATION	SIDE	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	INTEGRAL CURB (6 IN. HEIGHT AND UNDER)	INTEGRAL CURB (OVER 6 IN. HEIGHT)	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) - EXPOSED AGGREGATE	ASPHALT CURB	REMARKS
					LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	
3	IMPERIAL MAIN ST.	10+23.94	12+32.24	LT	225.9					
3	IMPERIAL MAIN ST.	10+20.98	15+00.00	RT	256.4					
3	IMPERIAL MAIN ST.	11+87.46	13+36.50	RT		78.6				
3	IMPERIAL MAIN ST.	12+26.24	13+80.81	RT					66.8	
3	IMPERIAL MAIN ST.	14+26.39	15+00.00	LT				74.1		
4	IMPERIAL MAIN ST.	15+00.00	15+03.28	LT				3.3		
4	IMPERIAL MAIN ST.	15+46.65	16+47.07	LT			100.4			
4	IMPERIAL MAIN ST.	18+05.84	18+46.92	LT	50.9					
4	IMPERIAL MAIN ST.	15+00.00	18+41.05	RT	186.8					
4	IMPERIAL MAIN ST.	16+22.48	18+30.75	RT		104.3				
5	IMPERIAL MAIN ST.	19+58.83	19+77.00	RT		22.2				
5	IMPERIAL MAIN ST.	19+78.23	20+22.23	LT		41.6				
5	RIVER ST.	32+23.31	32+65.91	LT	54.7					
5	RIVER ST.	30+26.69	31+12.18	RT	195.1					
				TOTALS	969.8	246.7	100.4	77.4	66.8	
				USE	970	247	101	78	67	

CURB AND GUTTER						
PLAN SHEET	LOCATION	STATION	STATION	SIDE	CURB AND GUTTER TYPE A	REMARKS
					LENGTH (LF)	
3	IMPERIAL MAIN ST.	10+27.22	15+00.00	LT	501.0	
3	IMPERIAL MAIN ST.	10+50.98	15+00.00	RT	449.0	
4	IMPERIAL MAIN ST.	15+00.00	18+27.93	LT	327.9	
4	IMPERIAL MAIN ST.	15+00.00	15+03.28	LT	3.3	
4	IMPERIAL MAIN ST.	15+03.28	15+51.90	LT	48.6	
4	IMPERIAL MAIN ST.	15+00.00	18+30.70	RT	330.7	
5	IMPERIAL MAIN ST.	19+74.11	20+91.64	LT	125.3	
5	IMPERIAL MAIN ST.	19+38.12	19+58.83	RT	20.7	
				TOTAL	1806.5	
				USE	1807	

CONCRETE SIDEWALK CURB RAMP									
PLAN SHEET	LOCATION	STATION	STATION	SIDE	CONCRETE SIDEWALK CURB RAMP (7" THICK)	CONCRETE SIDEWALK CURB RAMP (7" THICK) - EXPOSED AGGREGATE	TRUNCATED DOMES	TYPE 5 AGGREGATE BASE (4")	REMARKS
					AREA (SY)	AREA (SY)	AREA (SF)	AREA (SY)	
3	IMPERIAL MAIN ST.	10+36.79	13+20.11	LT	27.7		33.9	27.7	
3	IMPERIAL MAIN ST.	10+45.98	13+94.01	RT	43.4		10.0	43.4	
3	IMPERIAL MAIN ST.	14+94.16	15+00.00	LT		3.1		3.1	
4	IMPERIAL MAIN ST.	15+00.00	15+02.99	LT		1.6		1.6	
4	IMPERIAL MAIN ST.	16+88.05	18+33.38	LT	16.2		29.8	16.2	
4	IMPERIAL MAIN ST.	16+88.05	18+33.38	LT	42.6		10.0	7.7	
				TOTALS	129.9	4.7	83.7	99.7	
				USE	130	5	84	100	

MODULAR BLOCK RETAINING WALL						
WALL	LOCATION	STATION	STATION	SIDE	MODULAR BLOCK RETAINING WALL	REMARKS
					AREA (SF)	
A	IMPERIAL MAIN ST.	10+28.10	10+61.27	LT	276	
				TOTAL	276	
				USE	276	

MOBILIZATION
LUMP SUM = 1

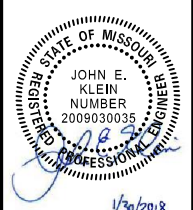
CONTRACTOR FURNISHED SURVEYING AND STAKING
LUMP SUM = 1

WATERPROOFING SYSTEMS AND ARCHITECTURAL PANELS
LUMP SUM = 1

SEEDING - COOL SEASON MIXTURES
0.2 ACRES

TEMPORARY SEEDING AND MULCHING
0.1 ACRES

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 2B

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

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BRIDGE NO.

DATE	DESCRIPTION					

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SCHEDULE OF QUANTITIES
SHEET 3 OF 4
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

SPECIAL NOTE TO CONTRACTOR(S):

~~EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEY AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES SHOULD BE CONSIDERED APPROXIMATE. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED BY THE CONTRACTOR(S) BEFORE ANY CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH FEATURES (WHICH EXCAVATION OR REMOVAL FOR REMOVAL OR DEMOLITION DURING CONSTRUCTION.~~

FIRST STREET

WHITE STREET

EXISTING
GRADE
(TYP.)

PROPOSED	
GRADE	
(TYP.)	

EXISTING
GRADE
(TYP.)

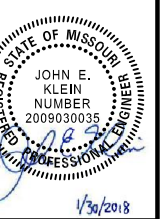
	PROPOSED GRADE (TYP.)
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00
30	0.00
31	0.00
32	0.00
33	0.00
34	0.00
35	0.00
36	0.00
37	0.00
38	0.00
39	0.00
40	0.00
41	0.00
42	0.00
43	0.00
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79	0.00
80	0.00
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84	0.00
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86	0.00
87	0.00
88	0.00
89	0.00
90	0.00
91	0.00
92	0.00
93	0.00
94	0.00
95	0.00
96	0.00
97	0.00
98	0.00
99	0.00
100	0.00

K = 11	
30.00 V.C.	

SSD = 597'
K = 5
10.00' V.C.

Diagram showing a rectangular area divided into two parts by a vertical line. The left part is labeled 5' and the right part is labeled 20'.

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 6

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

1


 MAPLE STREET ANNEX
 725 MAPLE STREET
 P.O. BOX 100
 HILLSBORO, MO 63050
 636-797-5340
www.jeffcomo.org



HORNERS
SHIFRIN

401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4331 • FAX 314-531-5986
WWW.HORNERSHIFRIN.COM

DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

IMPERIAL MAIN STREET IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI

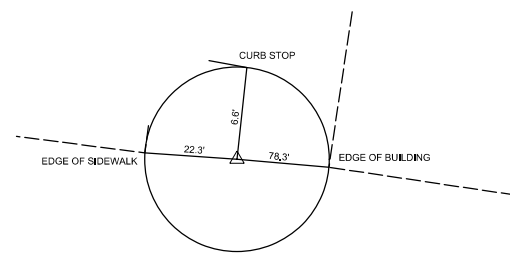
IMPERIAL MAIN STREET IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI

REV.

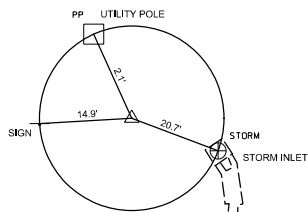
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2/2018



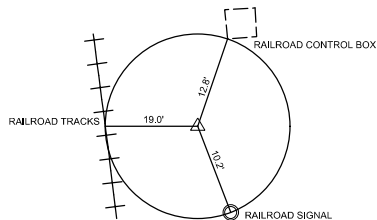
CONTROL POINT 3

MAG NAIL
NORTHING = 923265.03
EASTING = 855172.71
STATION = 15+68.84
OFFSET = 21.19 LT
ELEVATION = 446.18



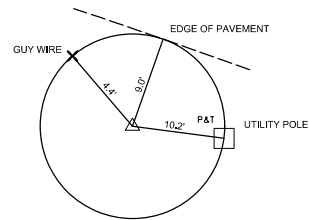
CONTROL POINT 5

5/8" REBAR W/ CAP
NORTHING = 854806.33
EASTING = 923265.70
STATION = 12+05.62
OFFSET = 26.87 RT
ELEVATION = 445.41



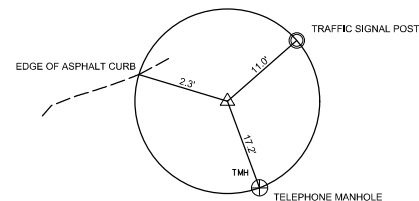
CONTROL POINT 8

80D NAIL
NORTHING = 923225.19
EASTING = 855530.29
STATION = 19+29.98
OFFSET = 27.20 LT
ELEVATION = 445.08



CONTROL POINT 10

1/2 IRON ROD ALONGSIDE I. PIPE
NORTHING = 923090.46
EASTING = 855971.93
STATION = 32+65.22
OFFSET = 24.47 RT
ELEVATION = 446.22



CONTROL POINT 13

5/8" REBAR W/ CAP
NORTHING = 923201.84
EASTING = 855683.63
STATION = 20+84.79
OFFSET = 17.58 LT
ELEVATION = 445.50

COORDINATE POINTS					
PLAN SHEET	STATION	LOCATION	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION
	9+00.00	IMPERIAL MAIN ST.	923331.38	854506.65	POT
1	9+93.10	IMPERIAL MAIN ST.	923319.49	854598.99	BEGIN PROJECT
1	14+04.70	IMPERIAL MAIN ST.	923266.92	855007.21	POT
2	17+13.29	IMPERIAL MAIN ST.	923223.92	855312.79	INTERSECTION OF IMPERIAL MAIN ST. AND FIRST ST.
2	17+19.72	IMPERIAL MAIN ST.	923223.02	855319.16	INTERSECTION OF IMPERIAL MAIN ST. AND HILL ST.
2	18+18.00	IMPERIAL MAIN ST.	923209.33	855416.49	PC STA. - CURVE 1
2	18+43.41	IMPERIAL MAIN ST.	923205.79	855441.64	PI STA. - CURVE 1
2	18+68.80	IMPERIAL MAIN ST.	923203.53	855466.95	PT STA. - CURVE 1
2	18+72.52	IMPERIAL MAIN ST.	923203.20	855470.65	INTERSECTION OF IMPERIAL MAIN ST. AND WHITE ST.
3	21+29.57	IMPERIAL MAIN ST.	923180.35	855726.68	INTERSECTION OF IMPERIAL MAIN ST. AND STATE HWY. 61-67
3	53+50.00	U.S. 61-67	923266.54	855734.23	POT
3	54+30.52	U.S. 61-67	923186.33	855727.20	INTERSECTION OF STATE HWY. 61-67 AND RIVER ST.
3	54+36.52	U.S. 61-67	923180.35	855726.68	INTERSECTION OF IMPERIAL MAIN ST. AND STATE HWY. 61-67
3	55+01.37	U.S. 61-67	923115.75	855721.02	PC STA. - CURVE 1
	57+12.71	U.S. 61-67	922905.22	855702.58	PI STA. - CURVE 1
	59+16.53	U.S. 61-67	922708.48	855779.77	PT STA. - CURVE 1
3	30+00.00	RIVER ST.	923186.33	855727.20	INTERSECTION OF STATE HWY. 61-67 AND RIVER ST.
3	30+43.23	RIVER ST.	923182.49	855770.26	PC STA. - CURVE 1
3	30+77.49	RIVER ST.	923179.52	855804.40	PI STA. - CURVE 1
3	31+11.34	RIVER ST.	923167.47	855836.48	PT STA. - CURVE 1
3	33+15.60	RIVER ST.	923095.65	856027.70	PC STA. - CURVE 2
3	33+38.84	RIVER ST.	923087.48	856049.45	PI STA. - CURVE 2
3	33+62.07	RIVER ST.	923078.31	856070.81	PT STA. - CURVE 2 / END PROJECT
2	70+00.00	FIRST ST.	923322.95	855326.73	POT
2	71+00.00	FIRST ST.	923223.92	855312.79	INTERSECTION OF IMPERIAL MAIN ST. AND FIRST ST.
2	80+00.00	HILL ST.	923223.02	855319.16	INTERSECTION OF IMPERIAL MAIN ST. AND HILL ST.
2	81+00.00	HILL ST.	923124.00	855305.23	POT
2	90+00.00	WHITE ST.	923302.38	855457.87	POT
2	91+00.00	WHITE ST.	923203.20	855470.65	INTERSECTION OF IMPERIAL MAIN ST. AND WHITE ST.

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO 7

COUNTY
JEFFERSON

JOB NO.

1534600

CONTRACT U

PROJECT NO. _____

STP-5403(662

BRIDGE NO.

[illegible]JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX

MAPLE STREET ANNEX
25 MAPLE STREET
P.O. BOX 100
MILLSBORO, MO 63050
36-797-5340
www.jeffcomo.org

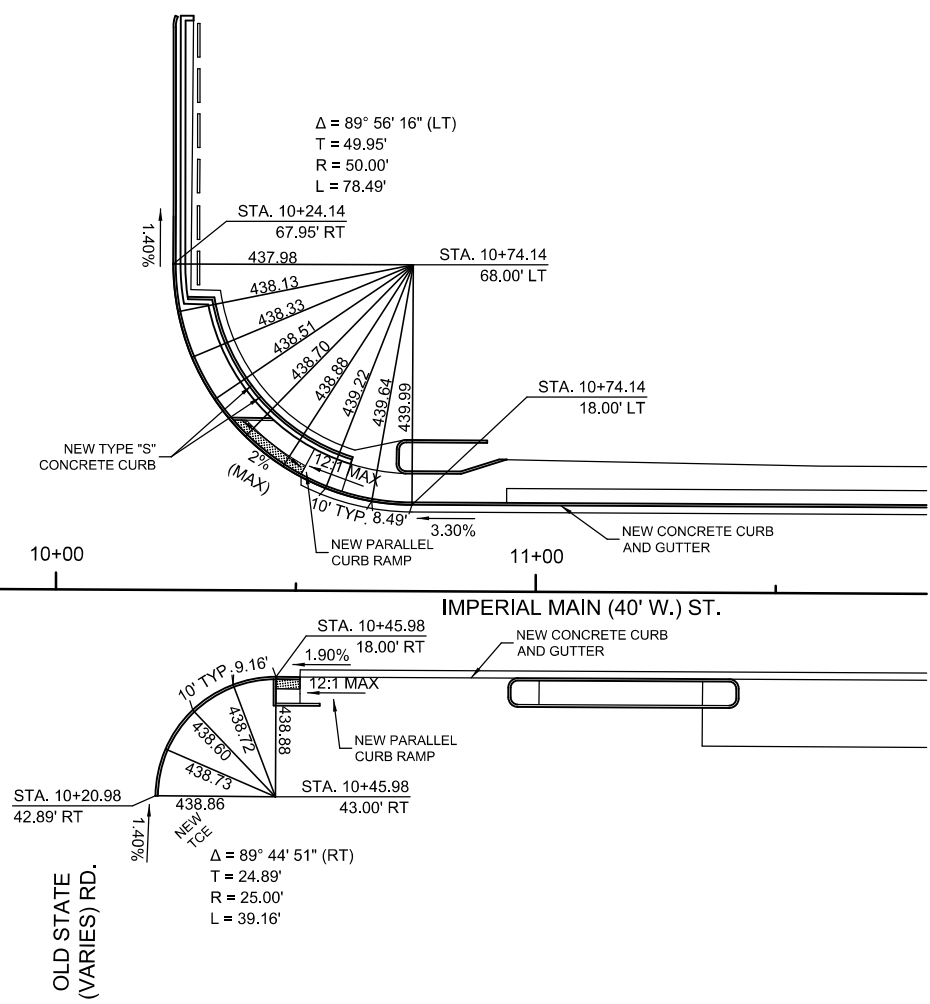


HORNOR

01 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 - FAX 314-531-6966
WWW.HORNERSHFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

REFERENCE & COORDINATE POINTS

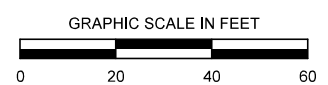
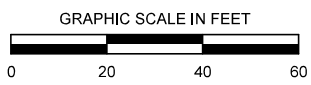
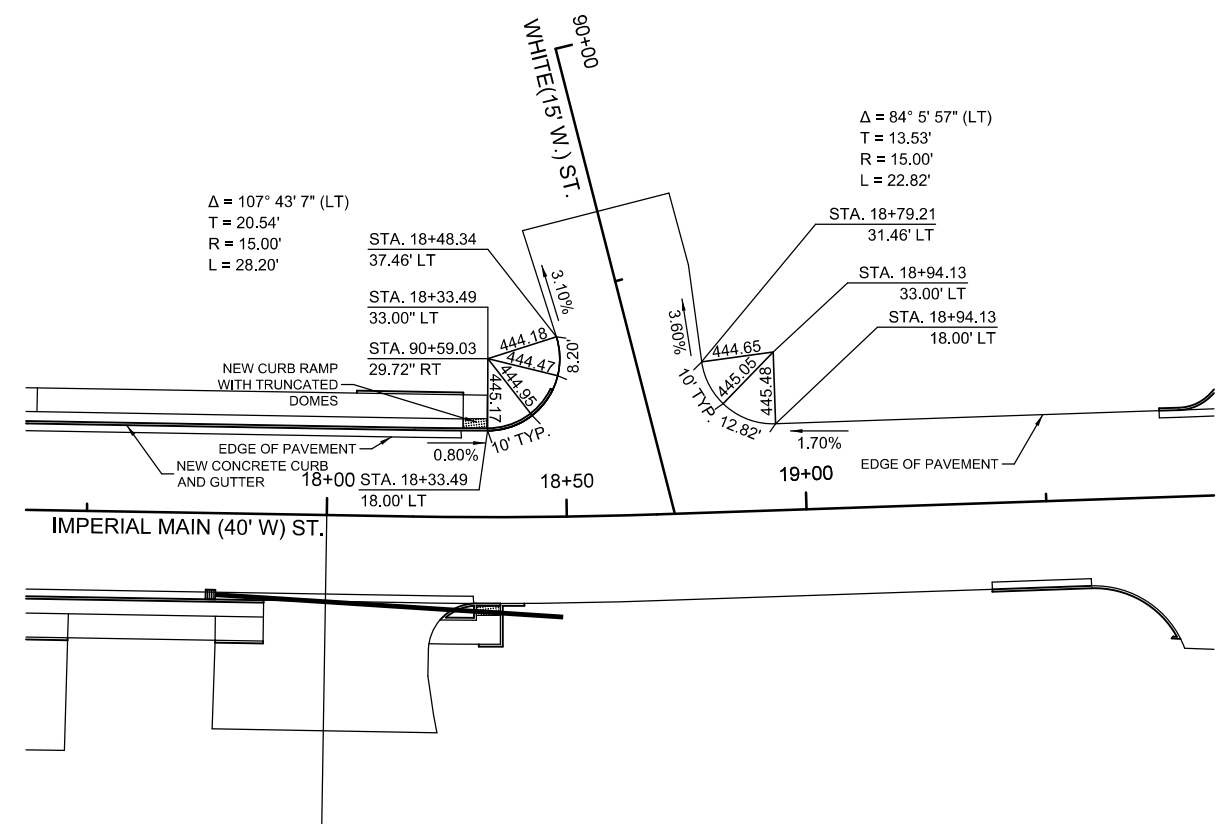
REV.



- GENERAL NOTES:**
- 1) ALL CURVE DATA SHOWN IS TO EDGE OF PAVEMENT OR GUTTER FLOWLINE.
 - 2) CURB RAMP LANDINGS SHALL HAVE A MINIMUM SIZE OF 5 FT. BY 5 FT. WITH A CROSS SLOPE OF 1.5% (+ OR - 0.5%) IN ANY DIRECTION (SLOPE 1.0% TO 2.0% MAX.)
 - 3) CURB RAMPS AND DETECTABLE WARNING PANELS SHALL BE CONSTRUCTED PER MODOT STANDARDS.
 - 4) ALL UTILITY APPURTENANCES LOCATED WITHIN SIDEWALKS SHALL BE ADJUSTED TO MEET ADA ACCESSIBILITY GUIDELINES.

SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY AND TO PROTECT ALL SUCH FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.



ENGINEER'S SEAL

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOHN E. KLEIN
NUMBER 2009030035
1/30/2018

DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 9
COUNTY JEFFERSON	
JOB NO. 1534600	
CONTRACT ID.	
PROJECT NO. STP-5403(662)	
BRIDGE NO.	

DESCRIPTION	DATE

JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcommo.org

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-6965
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

INTERSECTION DETAILS
SHEET 1 OF 2
IMPERIAL MAIN STREET IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI



A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The center of the seal contains the text "JOHN E. KLEIN", "NUMBER", and "2009030035". A blue ink signature is written across the bottom half of the seal.

DATE PREPARED

2/2/2018

ROUTE	STATE
-------	-------

MAIN	MO
------	----

DISTRICT	SHEET N
----------	---------

10

	COUNTY

JEFFERSON

JOB NO.	
---------	--

1534600

100-1000
CONTRACT ID

CONTRACT ID:

PROJECT NO.

STP-5403(662)

BRIDGE NO.

BRIDGE NO. _____

[illegible]

JEFFERSON COUNTY, MISSOURI
 MAPLE STREET ANNEX
 725 MAPLE STREET
 P.O. BOX 100
 HILLSBORO, MO 63050
 636-797-5340
www.jeffco.mo.gov



**HORNER
SHIFRIN**
11 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-6966
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000450

INTERSECTION DETAILS
SHEET 2 OF 2

**IMPERIAL MAIN STREET
IMPROVEMENTS**
JEFFERSON COUNTY, MISSOURI

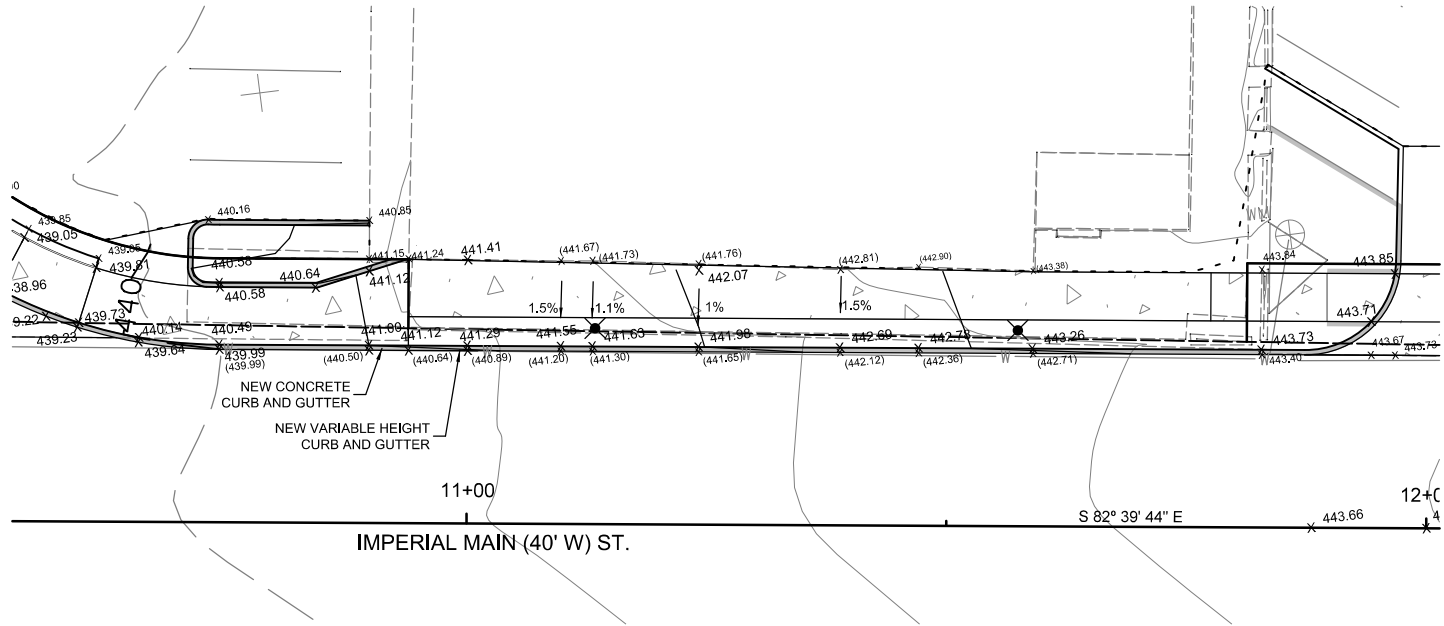
REV



- 1) ALL CURVE DATA SHOWN IS TO EDGE OF PAVEMENT OR GUTTER FLOWLINE.
- 2) CURB RAMP LANDINGS SHALL HAVE A MINIMUM SIZE OF 5 FT. BY 5 FT. WITH A CROSS SLOPE OF 1.5% (+ OR - 0.5%) IN ANY DIRECTION (SLOPE 1.0% TO 2.0% MAX.).
- 3) CURB RAMPS AND DETECTABLE WARNING PANELS SHALL BE CONSTRUCTED PER MODOT STANDARDS.
- 4) ALL UTILITY APPURTENANCES LOCATED WITHIN SIDEWALKS SHALL BE ADJUSTED TO MEET ADA ACCESSIBILITY GUIDELINES.
- 5) XXX.XX = PROPOSED SPOT ELEVATION

SPECIAL NOTE TO CONTRACTOR(S):

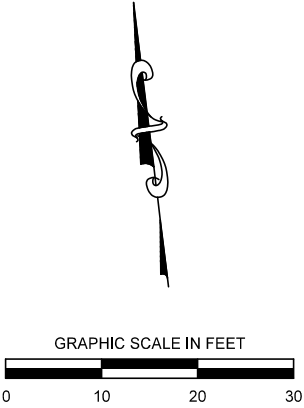
EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE; ONLY, IN ADDITION, THE CONTRACTOR MAY BE REQUIRED TO EXPOSE, IDENTIFY, AND REMOVE UTILITIES (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION OF THE PROJECT. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR NOTING FOR REMOVAL OR DEMOLITION DURING CONSTRUCTION.



- GENERAL NOTES:
1. CURB RAMP SLOPE SHALL NOT EXCEED 8.33%.
 2. XXX.XX = PROPOSED SPOT ELEVATION
 3. (XXX.XX) = EXISTING SPOT ELEVATION
 4. PG = PROFILE GRADE ELEVATION

SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.



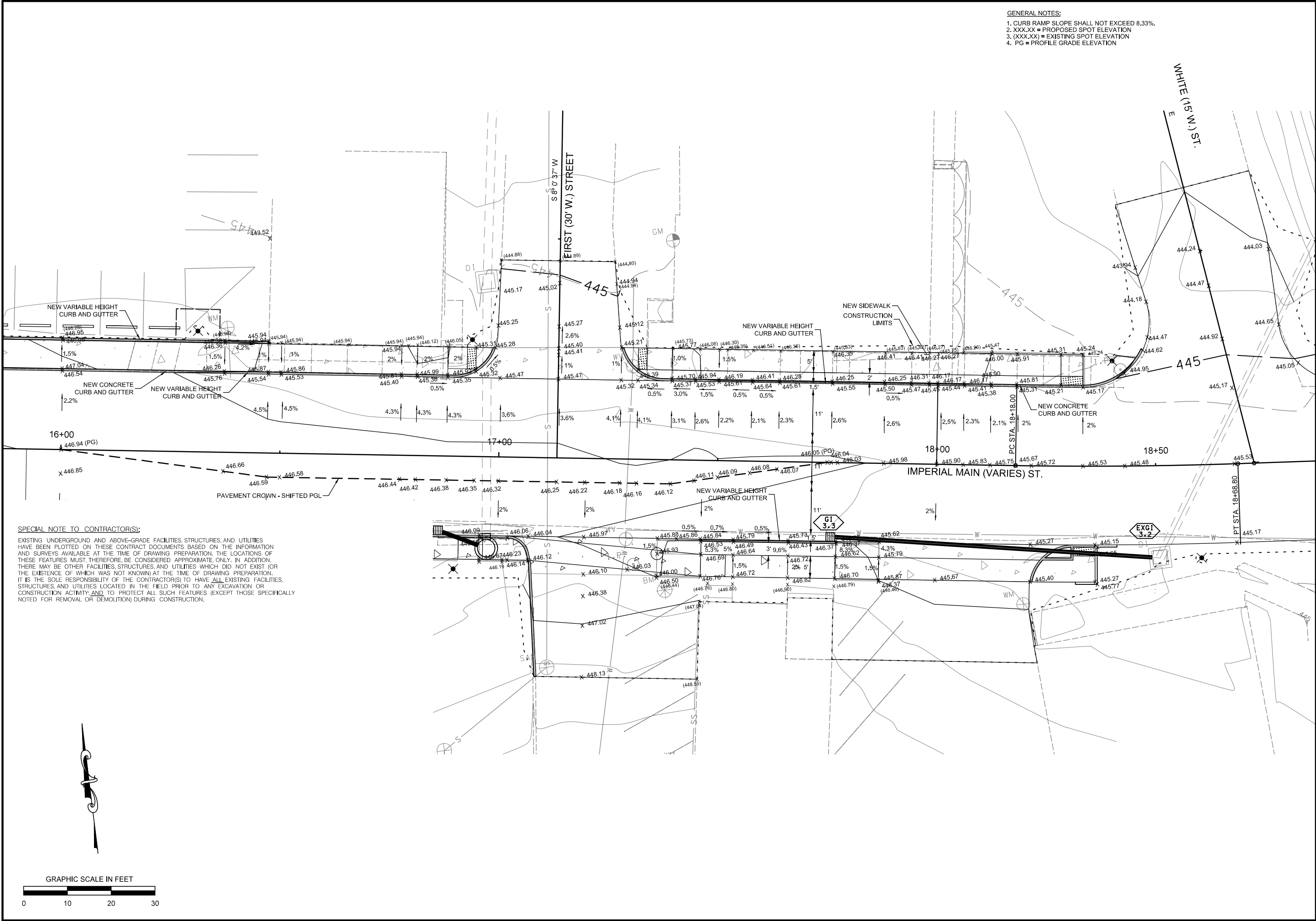
ENGINEER'S SEAL	
DATE PREPARED 2/2/2018	
ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 11
COUNTY JEFFERSON	
JOB NO. 1534600	
CONTRACT ID.	
PROJECT NO. STP-5403(662)	
BRIDGE NO.	

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcomo.org

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-6966
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

GRADING PLAN
SHEET 1 OF 2
**IMPERIAL MAIN STREET
IMPROVEMENTS**
JEFFERSON COUNTY, MISSOURI



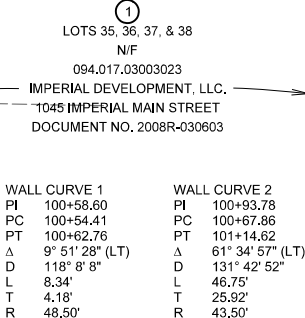
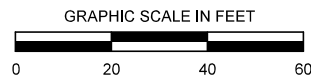
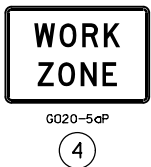
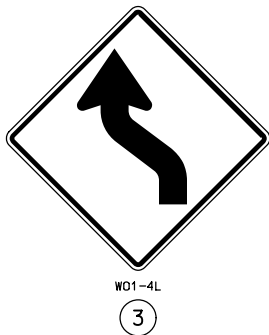
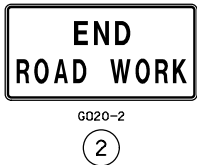
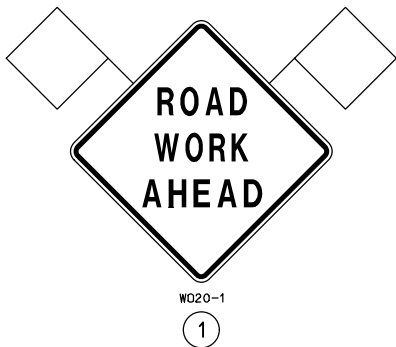
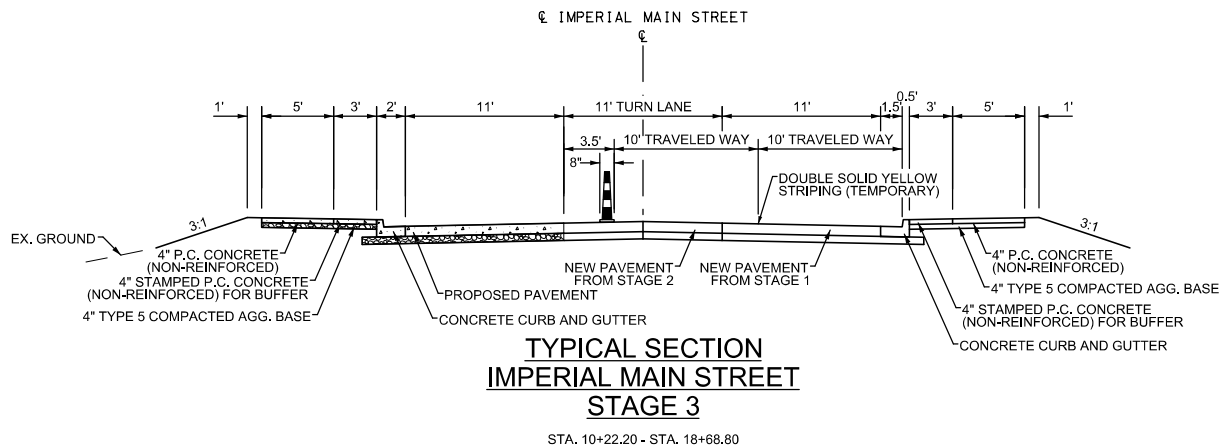
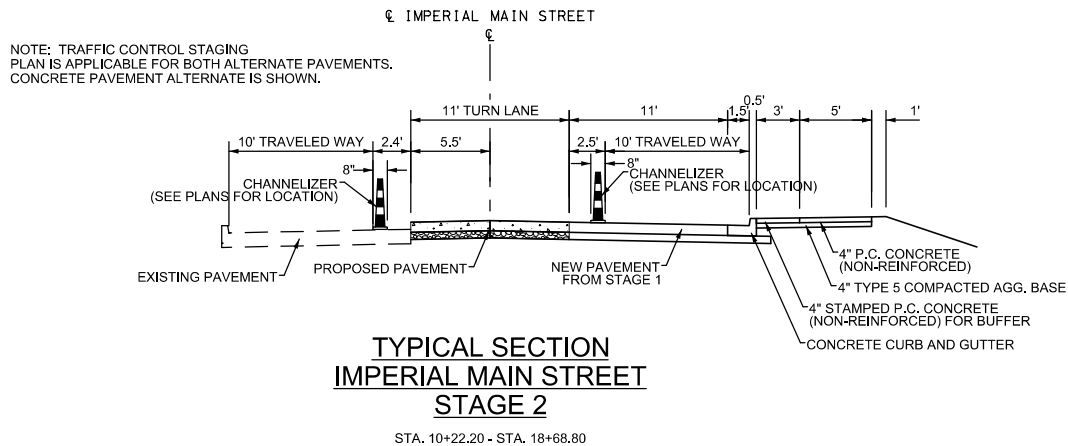
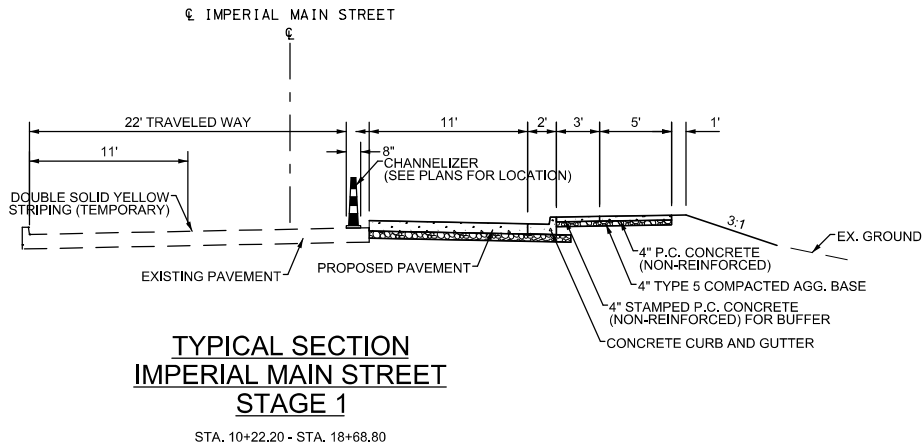


Diagram illustrating the cross-section of Wall A, showing the proposed ground line (top of wall) and existing ground line. The wall is constructed of modular blocks, with the top of the wall (each step equals height of one modular block course) and the base of the wall (minimum of 8" below grade) indicated. The diagram also shows the proposed ground line (face of wall) and the existing ground line. Vertical curve data is provided for the existing ground line: VPI 100+40.00, EL 438.95, and VPI 101+14.67, and for the proposed ground line: VPI 100+40.00, EL 437.38, VPI 100+75.00, EL 437.38, and VPI 101+14.67.



GENERAL NOTES:

- DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TCP SIGNS AND DEVICES.
- ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.
- ALL TRAFFIC CONTROL ITEMS WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
- MAINTAIN ACCESS TO HILL STREET AND ENTRANCES AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN TEMPORARY STRIPING DURING CONSTRUCTION. MAINTENANCE OF TEMPORARY STRIPING IS CONSIDERED INCIDENTAL.

	TRAFFIC CONTROL						REMARKS
	CHANNELIZERS (TRIM-LINE)	TYPE III BARRICADES	TEMPORARY STRIPING 4" YELLOW	CHANGEABLE MESSAGE SIGN	CONSTRUCTION SIGNS	FLAG ASSEMBLY	
	(EACH)	(EACH)	LENGTH (L.F.)	(EACH)	AREA (S.F.)	(EACH)	
TOTALS	36	8	221	2	546	5	
PAY TOTALS	36	8	221	2	546	5	

ENGINEER'S SEAL

DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 14
COUNTY JEFFERSON	
JOB NO. 1534600	
CONTRACT ID.	
PROJECT NO. STP-5403(662)	
BRIDGE NO.	

DESCRIPTION	DATE

JEFFERSON COUNTY, MISSOURI

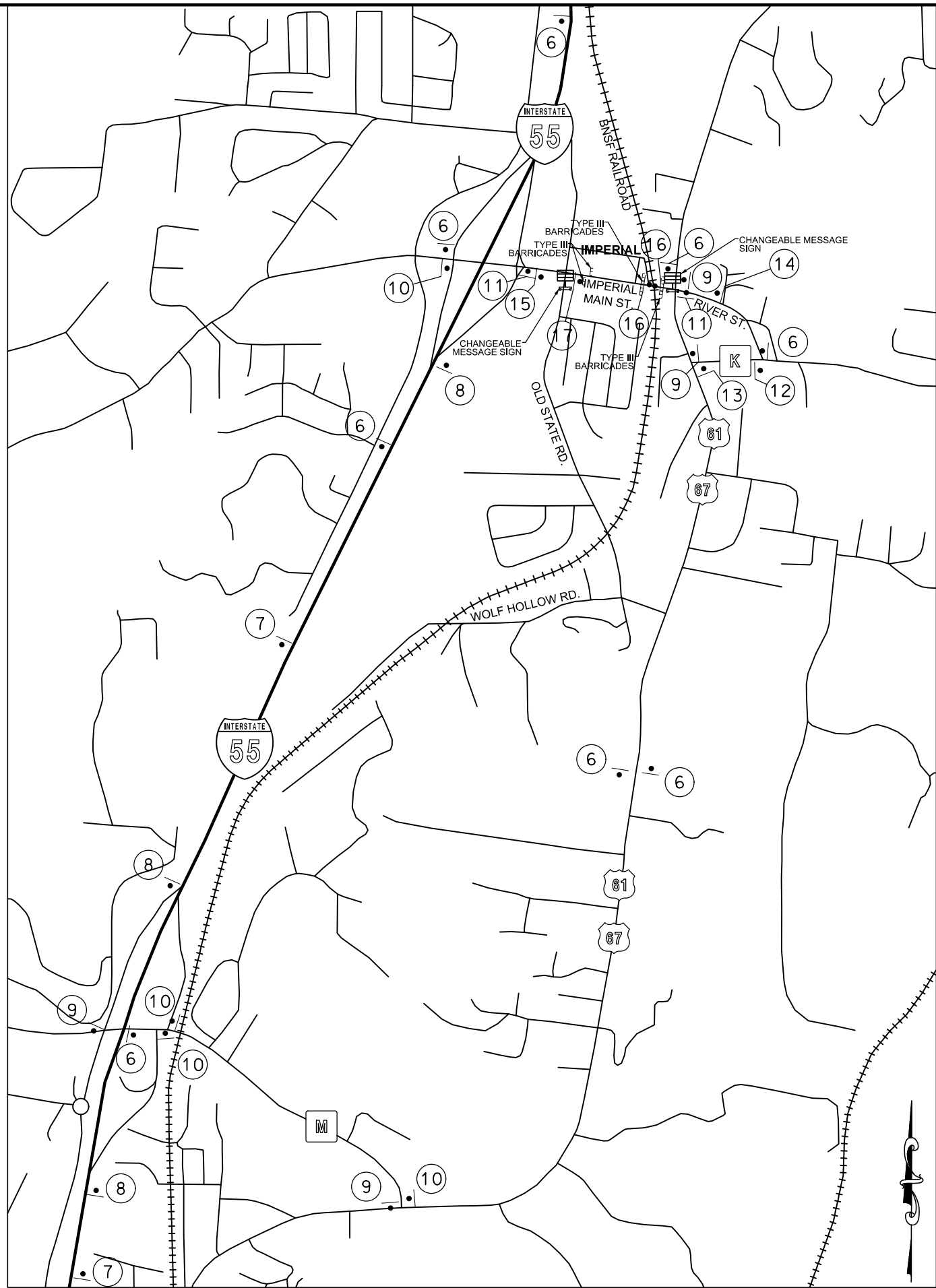
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffco.org

HORNER SHIFRIN

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

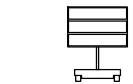
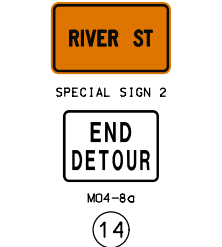
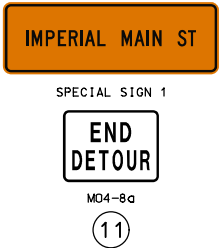
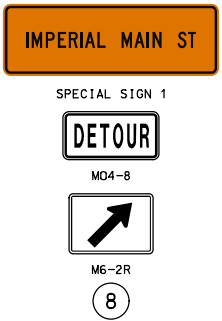
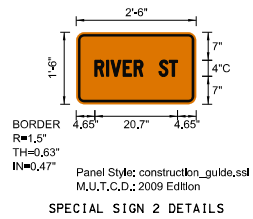
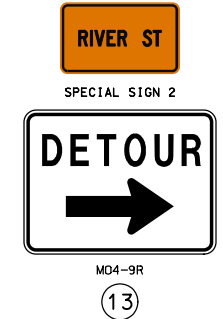
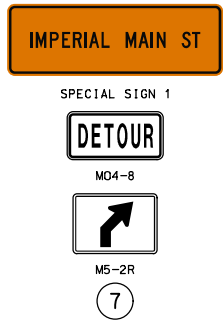
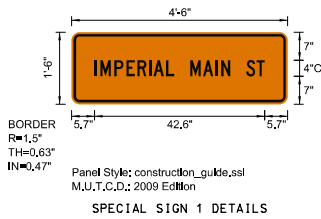
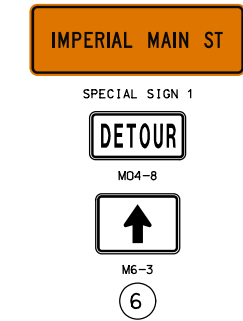
TRAFFIC CONTROL PLAN
SHEET 1 OF 9
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

REV.



IMPERIAL MAIN STREET AND RIVER STREET
DETOUR ROUTE
FOR RAILROAD CONSTRUCTION

NOTE: DETOUR ROUTE SHALL ONLY BE USED
FOR RAILROAD CLOSURE.



CHANGEABLE MESSAGE SIGN

ENGINEER'S SEAL

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOHN E. KLEIN
NUMBER 2009030035
1/30/2018

DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 15
COUNTY JEFFERSON	
JOB NO. 1534600	
CONTRACT ID.	
PROJECT NO. STP-5403(662)	
BRIDGE NO.	

DATE	DESCRIPTION

JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcommo.org

JEFFERSON COUNTY
HORNOR SHIFRIN
401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-5965
WWW.HORNORSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

TRAFFIC CONTROL PLAN
SHEET 2 OF 9
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

REV.

TRAFFIC CONTROL LEGEND

	WORK AREA
	SIGN (SINGLE SIDED)
	CHANNELIZER (TRIM-LINE)
	TYPE III MOVEABLE BARRICADE

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES WILL BE CONSIDERED TO BE APPROXIMATE. THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES EXPOSED, IDENTIFIED, AND REMOVED BY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH FEATURES (WHICH SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

1. SIGN LOCATIONS TO BE APPROVED BY ENGINEER.
2. DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WITH PERMISSION OF ENGINEER.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TOP SIGNS AND DEVICES.
4. ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.
5. ALL TRAFFIC CONTROL ITEMS WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
6. MAINTAIN ACCESS TO OLD STATE ROAD, HILL STREET, AND ENTRANCES AT ALL TIMES.
7. CONTRACTOR SHALL MAINTAIN TEMPORARY STRIPING DURING CONSTRUCTION MAINTENANCE OF TEMPORARY STRIPING IS CONSIDERED INCIDENTAL.

1. INSTALL TRAFFIC CONTROL DEVICES, SIGNING AND TEMPORARY STRIPING.
2. CONSTRUCT SOUTH LANE AND SIDEWALK. MAINTAIN TWO-WAY ACCESS ON NORTH LANES.
3. CONSTRUCT STORM SEWER STRUCTURES AND PIPES.

DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
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STRICT	SHEET NO. 16
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COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.	
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PROJECT NO.
STP-5403(662)

BRIDGE NO.

[illegible]

JEFFERSON COUNTY
MISSOURI
1820

MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050

636-797-5340
www.jeffco.org

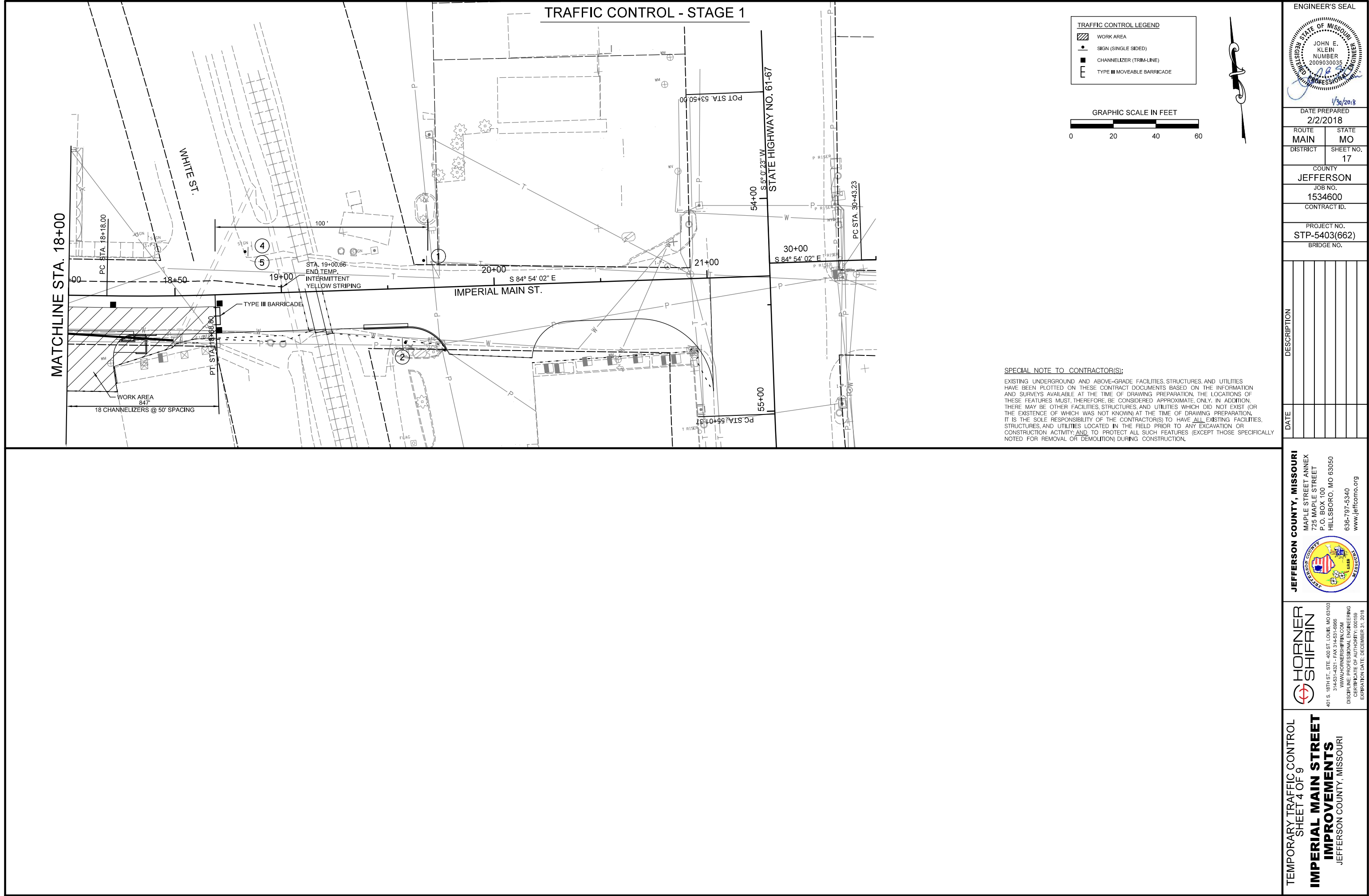
 **HORNERS
SHIFRIN**

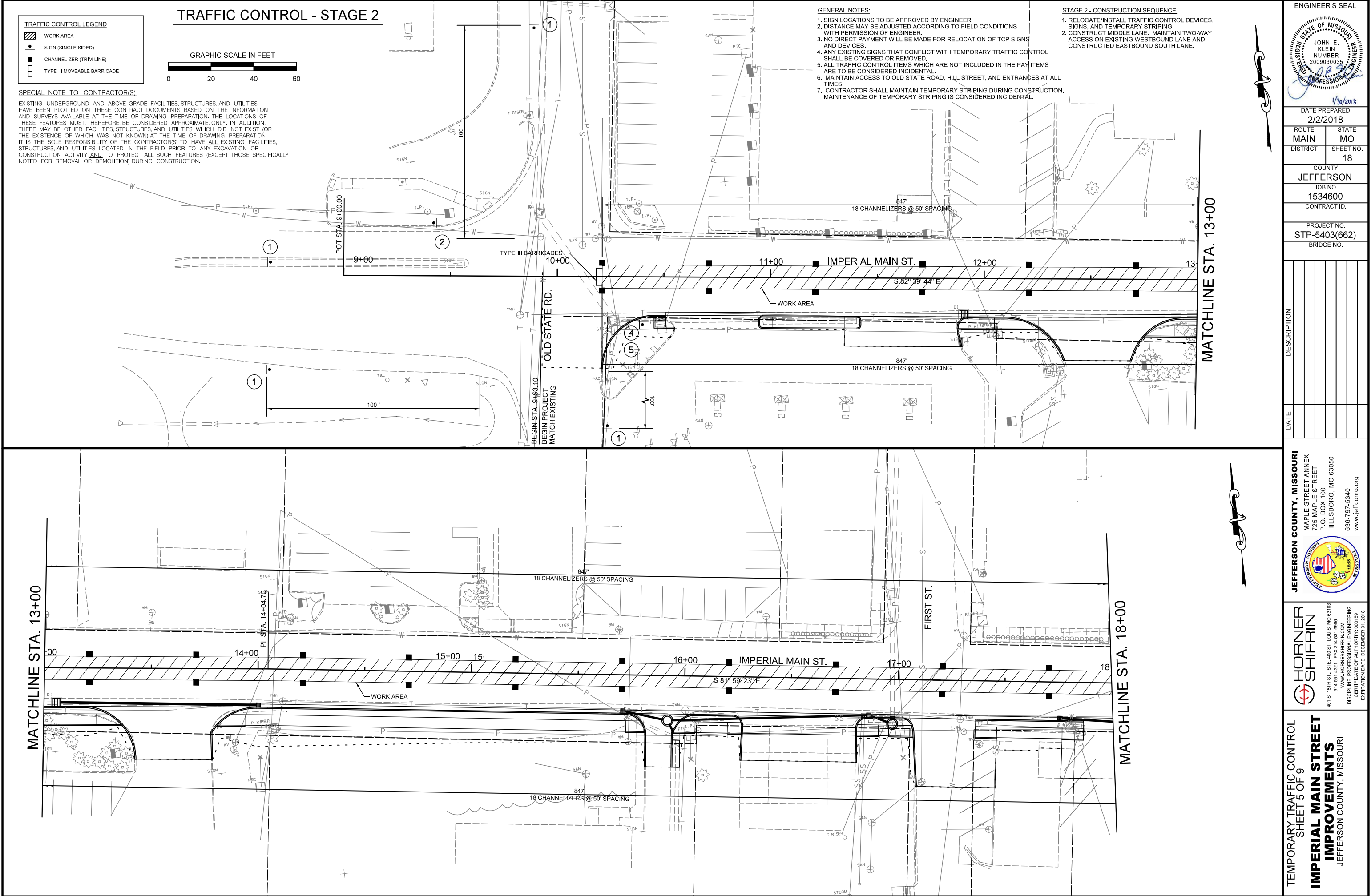
301 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-8986
WWW.HORNERSHIFRIN.COM

DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

**IMPERIAL MAIN STREET
IMPROVEMENTS**
JEFFERSON COUNTY, MISSOURI

REV.





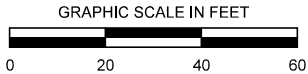
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2/2/2018

REV.

TRAFFIC CONTROL LEGEND

- WORK AREA
SIGN (SINGLE SIDED)
CHANNELIZER (TRIM-LINE)
TYPE III MOVEABLE BARRICADE



SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

TRAFFIC CONTROL - STAGE 3

GENERAL NOTES:

- SIGN LOCATIONS TO BE APPROVED BY ENGINEER.
- DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WITH PERMISSION OF ENGINEER.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TCP SIGNS AND DEVICES.
- ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.
- ALL TRAFFIC CONTROL ITEMS WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
- MAINTAIN ACCESS TO OLD STATE ROAD, HILL STREET, AND ENTRANCES AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN TEMPORARY STRIPING DURING CONSTRUCTION. MAINTENANCE OF TEMPORARY STRIPING IS CONSIDERED INCIDENTAL.

STAGE 3 - CONSTRUCTION SEQUENCE:

- RELOCATE/INSTALL TRAFFIC CONTROL DEVICES, SIGNS, AND TEMPORARY STRIPING.
- CONSTRUCT WESTBOUND LANE AND SIDEWALK, MAINTAIN TWO-WAY ACCESS ON CONSTRUCTED MIDDLE AND EASTBOUND LANES.

ENGINEER'S SEAL



DATE PREPARED
2/2/2018

ROUTE MAIN STATE MO
DISTRICT SHEET NO. 20

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

DESCRIPTION

DATE

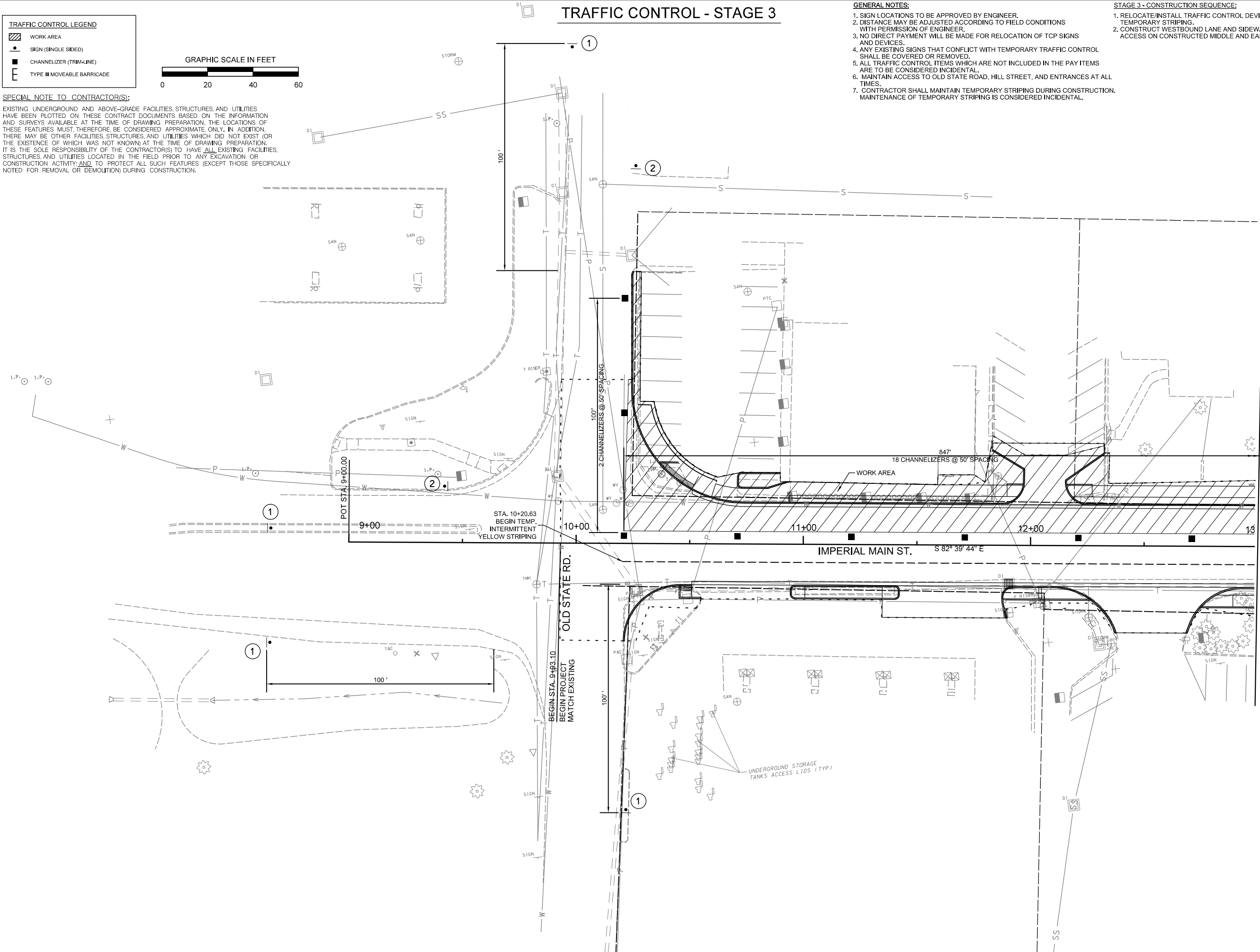
JEFFERSON COUNTY, MISSOURI
MAPLE STREET ANNEX
725 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
636-797-5340
www.jeffcommo.org



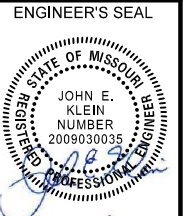
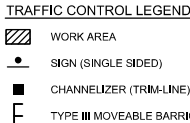
HORNER SHIFRIN
401 S. 18TH ST. STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-6966
WWW.HORNERSHIFRIN.COM
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EXPIRATION DATE: DECEMBER 31, 2018

TEMPORARY TRAFFIC CONTROL
SHEET 7 OF 9
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

MATCHLINE STA. 13+00



TRAFFIC CONTROL - STAGE 3

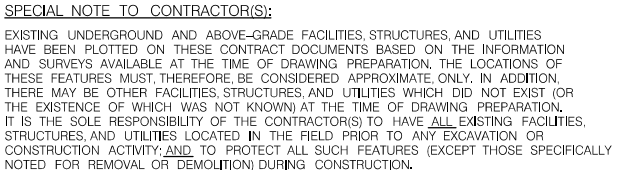


DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 21

COUNTY	JEFFERSON
JOB NO.	1534600
CONTRACT ID.	

PROJECT NO.
STP-5403(662)
BRIDGE NO.

[illegible]

JEFFERSON COUNTY, MISSOURI
 MAPLE STREET ANNEX
 725 MAPLE STREET
 P.O. BOX 100
 HILLSBORO, MO 63050
 636-797-5340
www.jeffco.mo.org

**HORNER
SHIFRIN**
101 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-8966
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 0001159
EXPIRATION DATE: DECEMBER 31, 2018

TEMPORARY TRAFFIC CONTROL
SHEET 8 OF 9

**IMPERIAL MAIN STREET
IMPROVEMENTS**

JEFFERSON COUNTY, MISSOURI

REV.

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2/2/2018

TRAFFIC CONTROL - STAGE 4A

WHITE ST.

IMPERIAL MAIN ST.

PT. STA. 18+68.80

18+50

19+00

20+00

21+00

54+00

55+00

PC STA. 55+01.37

POT STA. 53+50.00

WORK AREA

45

S 84° 54' 02" E

10-10-10

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST THEREFORE BE CONSIDERED APPROXIMATE, ONLY, IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES LOCATED ON OR NEAR THE SITE OF WHICH THE CONTRACTOR(S) HAS/HAVE BEEN ADVISED OF THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY AND TO PROTECT ALL SUCH FEATURES (EXCEPT THOSE SPECIFICALLY NOTED AS TO BE REMOVED) PRIOR TO BEGINNING ANY FURTHER CONSTRUCTION.

-  WORK AREA
-  SIGN (SINGLE SIDED)
-  CHANNELIZER (TRIM-LINE)
-  TYPE III MOVEABLE BARRICADE

1. SIGN LOCATIONS TO BE APPROVED BY ENGINEER.
2. DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WITH PERMISSION OF ENGINEER.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TCP SIGNS AND DEVICES.
4. ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.
5. ALL ITEMS USED IN THE PROJECT WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
6. MAINTAIN ACCESS TO OLD STATE ROAD, HILL STREET, AND ENTRANCES AT ALL TIMES.
7. CONTRACTOR SHALL MAINTAIN TEMPORARY STRIPING DURING CONSTRUCTION. MAINTENANCE OF TEMPORARY STRIPING IS CONSIDERED INCIDENTAL.

1. INSTALL DETOUR ROUTE SIGNING FOR IMPERIAL MAIN STREET CLOSURE FOR RAILROAD CONSTRUCTION AND RIVER STREET CLOSURE. SEE DETOUR ROUTE ON SHEET 15.
2. CLOSE IMPERIAL MAIN STREET FROM WHITE STREET TO STATE HIGHWAY NO. 61-67 FOR RAILROAD CONSTRUCTION AND COORDINATION.
3. CLOSE RIVER STREET.
4. CONSTRUCT ALL LANES OF IMPERIAL MAIN STREET, RIVER STREET, AND SIGNALS AT STATE HIGHWAY NO. 61-67 FOR THE LIMITS SHOWN.
5. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES FOR IMPERIAL MAIN STREET IN THIS STAGE WITH BNSF RAILROAD.
6. IMPERIAL MAIN STREET CLOSURE FOR RAILROAD CONSTRUCTION CAN OCCUR BEFORE, DURING, OR AFTER ANY OTHER TRAFFIC CONTROL STAGE.
7. SEE JOB SPECIAL PROVISIONS FOR DURATION OF IMPERIAL MAIN STREET CLOSURE FOR RAILROAD CONSTRUCTION AND FOR MORE INFORMATION REGARDING IMPERIAL MAIN STREET CLOSURE AND RIVER STREET CLOSURE.

A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The center of the seal contains the text "JOHN E. KLEIN", "NUMBER", and "2009030035". There is a blue ink signature across the bottom of the seal.

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO 22

CONTRACT ID.

BRIDGE NO.

[illegible]

TRAFFIC CONTROL - STAGE 4B

STATE HIGHWAY NO. 61-67

30+00
S 84° 54' 02" E

PC STA 30+43.23

31+00
PT STA 31+11.34

32+00
RIVER ST.
S 69° 24' 54" E

33+00
PC STA 33+15.60

ST STA 33+62.07

WORK AREA

12

17

MAPLE STREET ANNEX
7225 MAPLE STREET
P.O. BOX 100
HILLSBORO, MO 63050
336-797-5340
www.jeffcomo.org



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314-531-4321 - FAX 314-531-6966
WWW.HORNERSHIFRN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2018

**IMPERIAL MAIN STREET
IMPROVEMENTS**
JEFFERSON COUNTY, MISSOURI

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF OBSTRUCTIONS WHICH MAY BE CONSIDERED TO BE COMMON TO THE PROJECT OR WHICH THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR(S) IS/ARE NOTED THAT ANY FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

1. STRIPING WIDTH 4" UNLESS OTHERWISE NOTED.
2. ALL STRIPING SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



1/30/2018

ROUTE	STATE
-------	-------

COUNTY
JEFFERSON

CONTRACT ID.

BRIDGE NO.

[illegible][illegible][illegible]

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MO 6:

BUN
MAPLE
725 MA
P.O. B
HILLSE
636-799

A graph of a function on a coordinate plane. The x-axis is labeled with 1, 3, and 5. The y-axis is labeled with 1, 2, and 3. The function is a blue curve that starts at (1, 2), goes down to a minimum at (3, 1), and then goes up to (5, 2).

ST. LOUIS
314-531-8
IFRIN.CO
UAL ENG
CITY.

TH ST., S.
4-531-43
WWW.HC
LINE: PRO
IFICATE

上

STRENGTHS

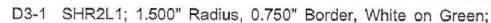
IAI
NTR
IAI
VEN
OUNT

PERSC

MP

2/2/20

TEMPORARY EROSION CONTROL							
STATION	STATION	LOCATION	SIDE	INLET PROTECTION - FIBER ROLLS	SILT FENCE	SEDIMENT REMOVAL	REMARKS
				LENGTH (L.F.)	LENGTH (L.F.)	AREA (C.Y.)	
10+20.98	21+01.59	IMPERIAL MAIN ST.	LT		80	0.8	
10+20.98	21+01.59	IMPERIAL MAIN ST.	RT	24.8	23	0.2	
30+26.50	33+62.07	RIVER ST.	LT		183	1.8	
			TOTALS	24.8	286	2.9	
			USE	25	286	3	



PULL BOX WITH
1-12C 12(RR) FOR
RAILROAD PREEMPTION

EX MAST ARM, POLE & FOUNDATION (TBR)
EXISTING STREET NAME SIGN (TBR & REL)
EXISTING PTZ CAMERA & WIRELESS
INTERFACE EQUIPMENT (TBR & REL)

SIGN "C" (FACING EAST)

MAIN STREET

SIGN "C" (FACING WEST)

EX PULL BOX (UIP)

SIDE MOUNT SIGNAL HEAD
ON AND LUMINAIRE (UIP)
(MAST ARM)

US 61-67

56+00

D3-1b SH-FLAT SHEET; 1.500" Radius, 0.500" Border, White on Green;

SIGN "B"

RIVER STREET

SIGN "A"

JCT ☐ JUNCTION BOXDESCRIPTION

DATE						
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JEFFERSON COUNTY, MISSOURI
 MAPLE STREET ANNEX
 725 MAPLE STREET
 P.O. BOX 100
 HILLSBORO, MO 63050
 636-797-5340
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**HORNER
SHIFRIN**

01 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
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TRAFFIC SIGNAL DETAILS
SHEET 1 OF 6

**IMPERIAL MAIN STREET
IMPROVEMENTS**

JEFFERSON COUNTY, MISSOURI

* STATION AND LOCATION
ARE APPROXIMATE
TO BE DETERMINED BY
ENGINEER IN FIELD

SUBTOTAL OPTICALLY LIMITED	
SUBTOTAL CONVENTIONAL	
SUBTOTAL COMBINATION OL & CONV	
TOTAL OPTICALLY LIMITED	
TOTAL CONVENTIONAL	
TOTAL COMBINATION OL & CONV	

US 61 / 67 WITH MAIN STREET
INTERSECTION

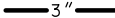
LEGEND

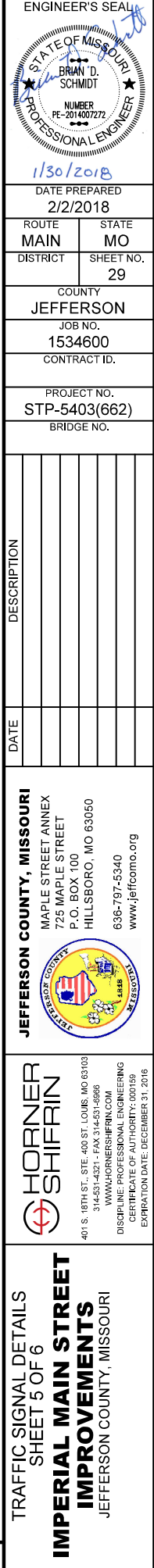
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

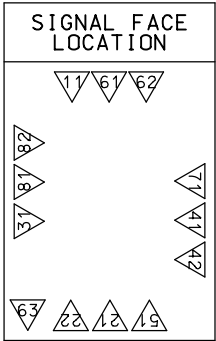
TRAFFIC SIGNAL DETAILS
SHEET 2 OF 6

**IMPERIAL MAIN STREET
IMPROVEMENTS**
JEFFERSON COUNTY, MISSOURI

LEGEND

	3" CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
	MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
	PULL BOX WITH NUMBER
	POST WITH NUMBER
	POST WITH MAST ARM
	POST WITH MAST ARM AND LUMINAIRE
	DETECTOR WITH NUMBER
	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER





TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

				↓		NOT USED				NOT USED					←		NOT USED		NOT USED		NOT USED		NOT USED					↙	↘											
			↶			NOT USED				↑	↷						NOT USED		NOT USED		NOT USED		NOT USED			↵		↙				↶								
		PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6		PHASE 7		PHASE 8		PED ⬆ OVERLAP		PED ⬆ OVERLAP		PED ⬆ OVERLAP		PED ⬆ OVERLAP		OLA		OLB		OLC		OLD								
FACE NUMBERS		11			21				41					61			71			81							11			31			51			71			FACE NUMBERS	
					22				42					62	63			71			82																			
SIGNAL INDICATIONS	R	RL			R				R					R	R		RL			R										RL			RL					R	SIGNAL INDICATIONS	
	Y	YL			Y				Y					Y	Y		YL			Y										YL			YL				Y			
	FYA																												FYL			FYL			FYL			FYL		FYA
	G	L			G				G					G	G		L			G																	G			
DETECTOR ASSIGNMENTS		11			21				41					61			71			81																			DETECTOR ASSIGNMENTS	
					22									62																										

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

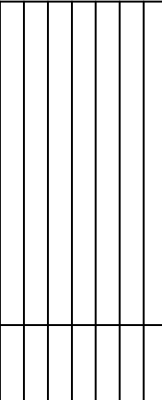
AF	AIR FLOW SWITCH
A	AQUASTAT
CD	CARBON DIOXIDE/MONOXIDE DETECTOR
WCD	WALL MOUNTED CARBON DIOXIDE/MONOXIDE DETECTOR
EP	ELECTRIC/PNEUMATIC SWITCH
F	FIRESTAT
HOA	HAND/OFF AUTOMATIC SELECTOR SWITCH

	COMPUTER
	DIGITAL COMMUNICATOR
	DIGITAL VIDEO RECORDER
	DOOR ALARM ANNUNCIATOR
	ALARM HORN
	BUZZER
	CHIME
	DOOR CONTACT

 ANTENNA
 ANTENNA - TELEMETRY
 BAY BOX LIGHTING

	SIMPLEX RECEPTACLE (18" A.F.F.)
	SIMPLEX RECEPTACLE IN FLOOR
	SIMPLEX RECEPTACLE EMERGENCY (18" A.F.F.)
	SIMPLEX RECEPTACLE EMERGENCY IN FLOOR
	DUPLEX RECEPTACLE (18" A.F.F.)
	c = 6" ABOVE COUNTER BACKSPLASH
	GFI = GROUND FAULT INTERRUPTER
	SURFACE RACEWAY DUPLEX OUTLET 3' ON CENTER
	DUPLEX RECEPTACLE IN FLOOR
	DUPLEX RECEPTACLE EMERGENCY (18" A.F.F.)
	DUPLEX RECEPTACLE EMERGENCY IN FLOOR
	CLOCK RECEPTACLE (88" A.F.F.)
	IG ISOLATED GROUND RECEPTACLE (18" A.F.F.)
	IG ISOLATED GROUND RECEPTACLE IN FLOOR
	QUADRAPLEX RECEPTACLE (18" A.F.F.)
	QUADRAPLEX RECEPTACLE IN FLOOR

	2x4	FLUORESCENT FIXTURE
A	=	FIXTURE TYPE
1	=	CIRCUIT NUMBER
b	=	SWITCH LEG
	LIGHT	FIXTURE ON EMERGENCY
	LIGHT	FIXTURE WITH NIGHTLIGHT
	2x2	FLUORESCENT FIXTURE
	1x4	FLUORESCENT FIXTURE
	6"x4"	FLUORESCENT FIXTURE
	WALL	MOUNTED FLOURESCENT
	STRIP	FLUORESCENT FIXTURE
	TRACK	LIGHTING
	1x1	FLUORESCENT FIXTURE
	DOWNLIGHT	FIXTURE
	DOWNLIGHT	FIXTURE ON EMERGENCY
	WALL	WASH FIXTURE
	WALL	MOUNTED FIXTURE
	GROUND	MOUNTED FLOOD LIGHT
	POLE	LIGHT FIXTURE
	BOLLARD	
	BOLLARD	ON EMERGENCY
	DECORATIVE	STREET LIGHTING
	EXISTING	STREET LIGHTING
	EXIT SIGN (ON EMERGENCY)	WITH DIRECTIONAL ARROW

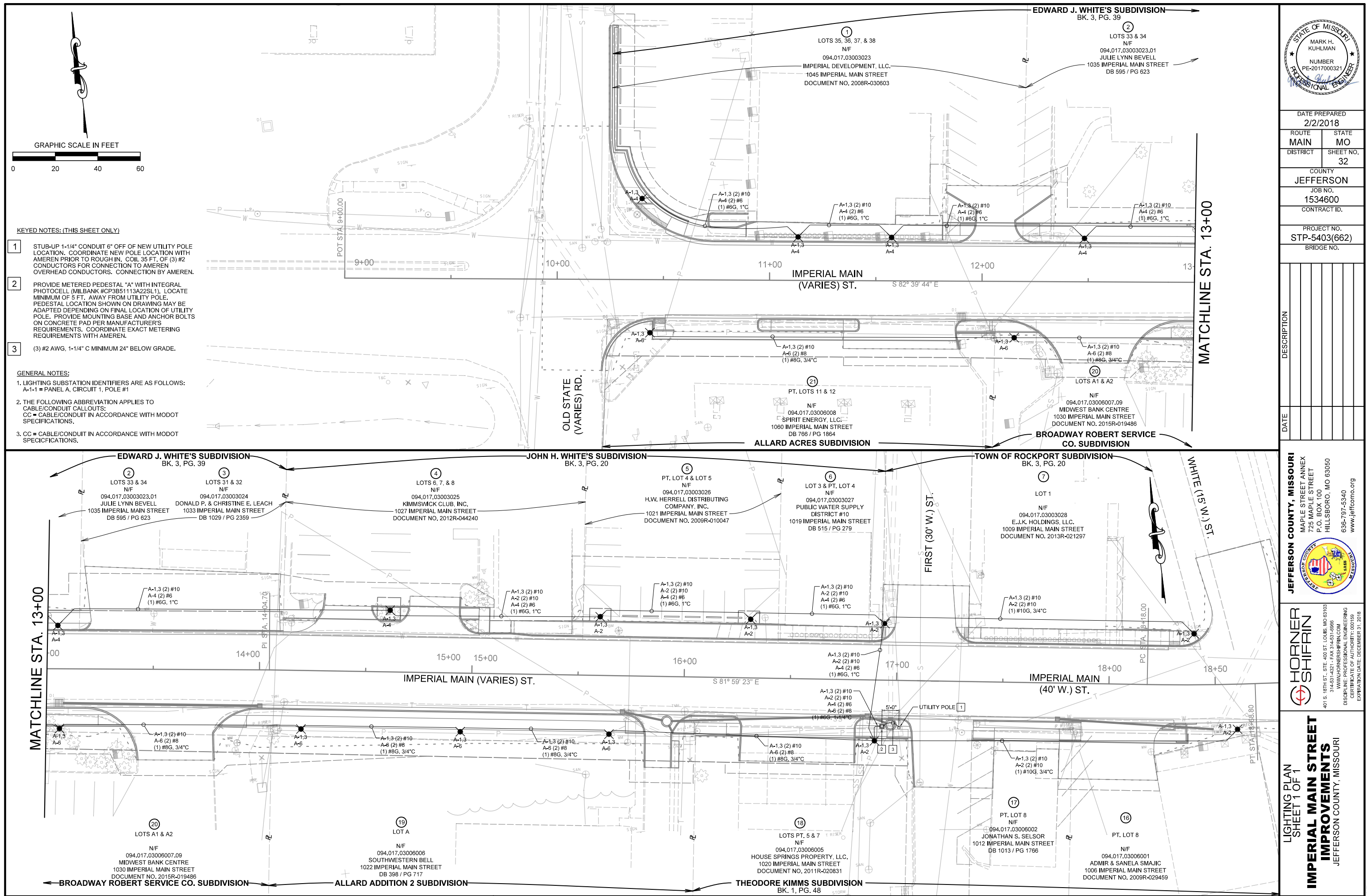


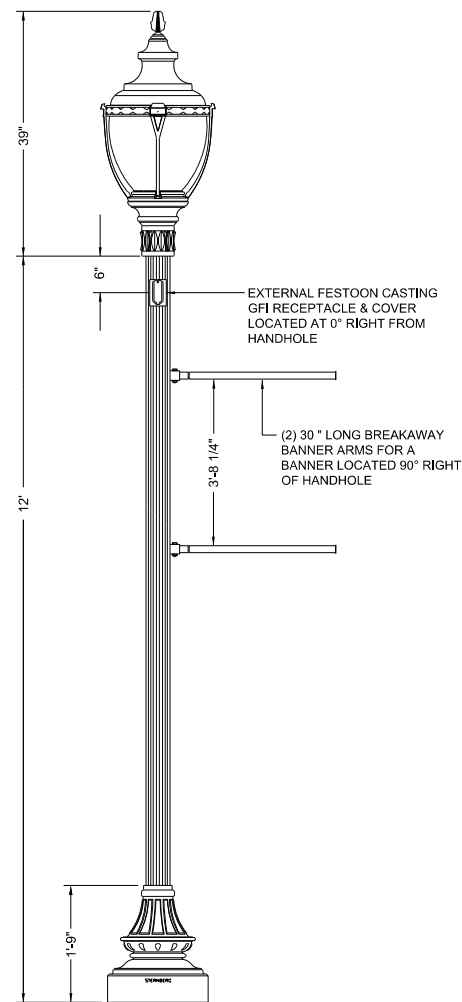
**HORNER
SHIFRIN**

101 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
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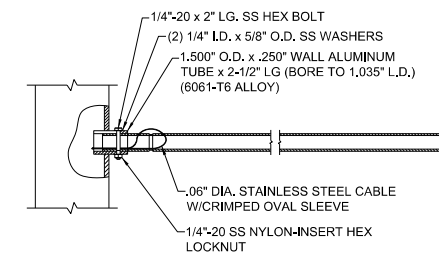
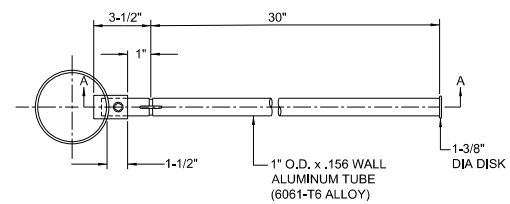
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI





POLE DETAIL

SCALE: N.T.S.



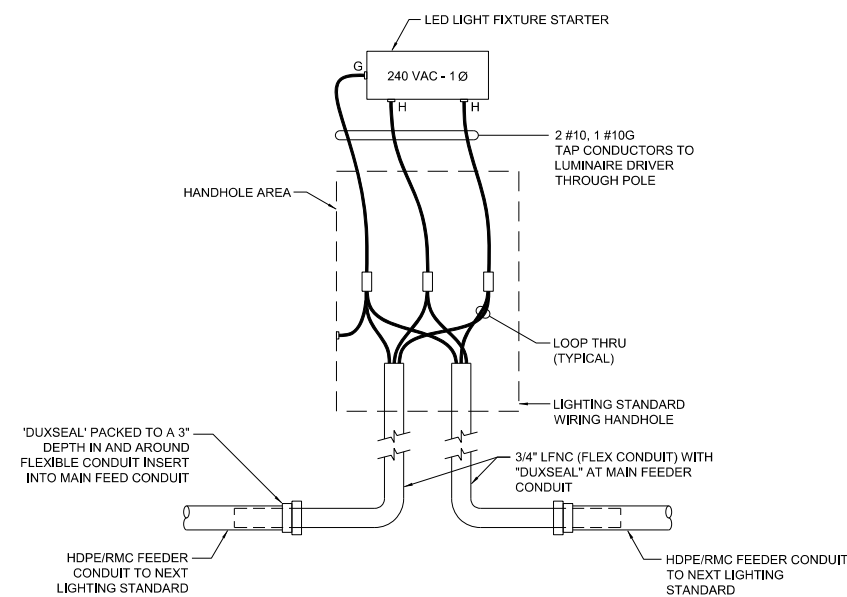
BANNER ARM DETAILS

SCALE: N.T.S.

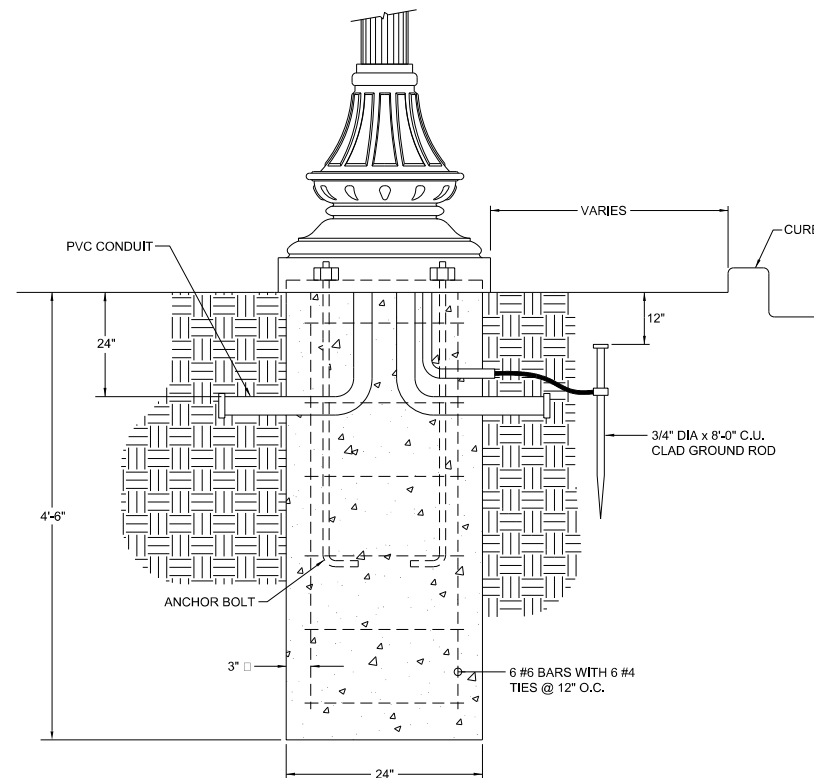
LIGHT FIXTURE SCHEDULE							
MARK	MANUFACTURER	CATALOG	LAMPS TYPE	INPUT WATTS	FINISH	MOUNTING	REMARKS
A	STERNBERG	LIGHT: PT-B750CF-5P-XX-240-XX-NONE-WP-BKT POLE: WA17AS-E-12004040UW-PD-DBL	LED COLOR 4500K	96	BLACK	POLE	PROVIDE POST-TOP LED CONVERSION KIT: XRLED-B750-12L-35K-T3-MDL21

EQUIVALENT FIXTURES AS MANUFACTURED BY LITHONIA, DAYBRITE, HUBBELL, COOPER & LSI PLUS WILL BE ACCEPTABLE UPON APPROVAL OF SPECIFIC MODEL NUMBERS BY ENGINEER.

BRANCH PANEL NAME	VOLTAGE			PHASE	WIRE	BUS SIZE			AIC RATING			
	120/ 240			1	3	100A			10,000			
100% NEUTRAL	CODE: L=LIGHTING, R=RECEPTACLE, M=MOTOR, E=EQUIPMENT										FLUSH MOUNTING TRIM	
NEMA 3R	COPPER GROUND BAR										100A MAIN CB	
LOAD	CODE	POLE	CKT#	A	B	CKT#	BKR	POLE	CODE	LOAD		
LIGHTING CIRCUIT	L	2	20	1	864							
				1,080							RECEPTACLE CIRCUIT	
				3		864					RECEPTACLE CIRCUIT	
						1,080						
		1	20	5	1,080						RECEPTACLE CIRCUIT	
							6	20	1	R		
		2	20	7								
		2	20	9			8	20	1			
		2	30	11			10	20	1			
							12	20	1			
2,160	PHASE A			RECEPT-W @	per NEC			-	TCL VA		4,104	
1,944	PHASE B			LIGHTS-SW @	100%			-	DEMAND VA		0	
				MOTOR-W @	95%			-	HLFH CONN, A		18	
4,104	TCL			EQUIP-V @	100%			-	DEMAND A		0	

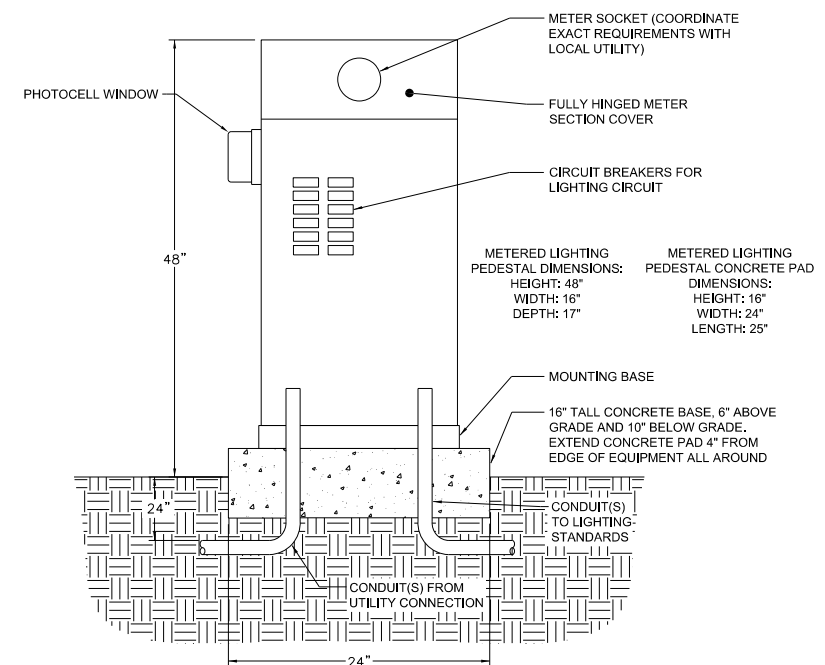


STREET LIGHTING WIRING DIAGRAM



POLE BASE MOUNTING DETAIL

SCALE: N.T.S.



METERED LIGHTING PEDESTAL DETAIL
SCALE: N.T.S. (COLOR: BLACK)

IMPERIAL MAIN STREET



DATE PREPARED
2/2/2018

ROUTE MAIN	STATE MO
DISTRICT	SHEET NO. 33

COUNTY
JEFFERSON

JOB NO.
1534600

CONTRACT ID.

PROJECT NO.
STP-5403(662)

BRIDGE NO.

DESCRIPTION

DATE _____

JEFFERSON COUNTY, MISSOURI
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 725 MAPLE STREET
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 636-797-5340
www.jeffcomo.org

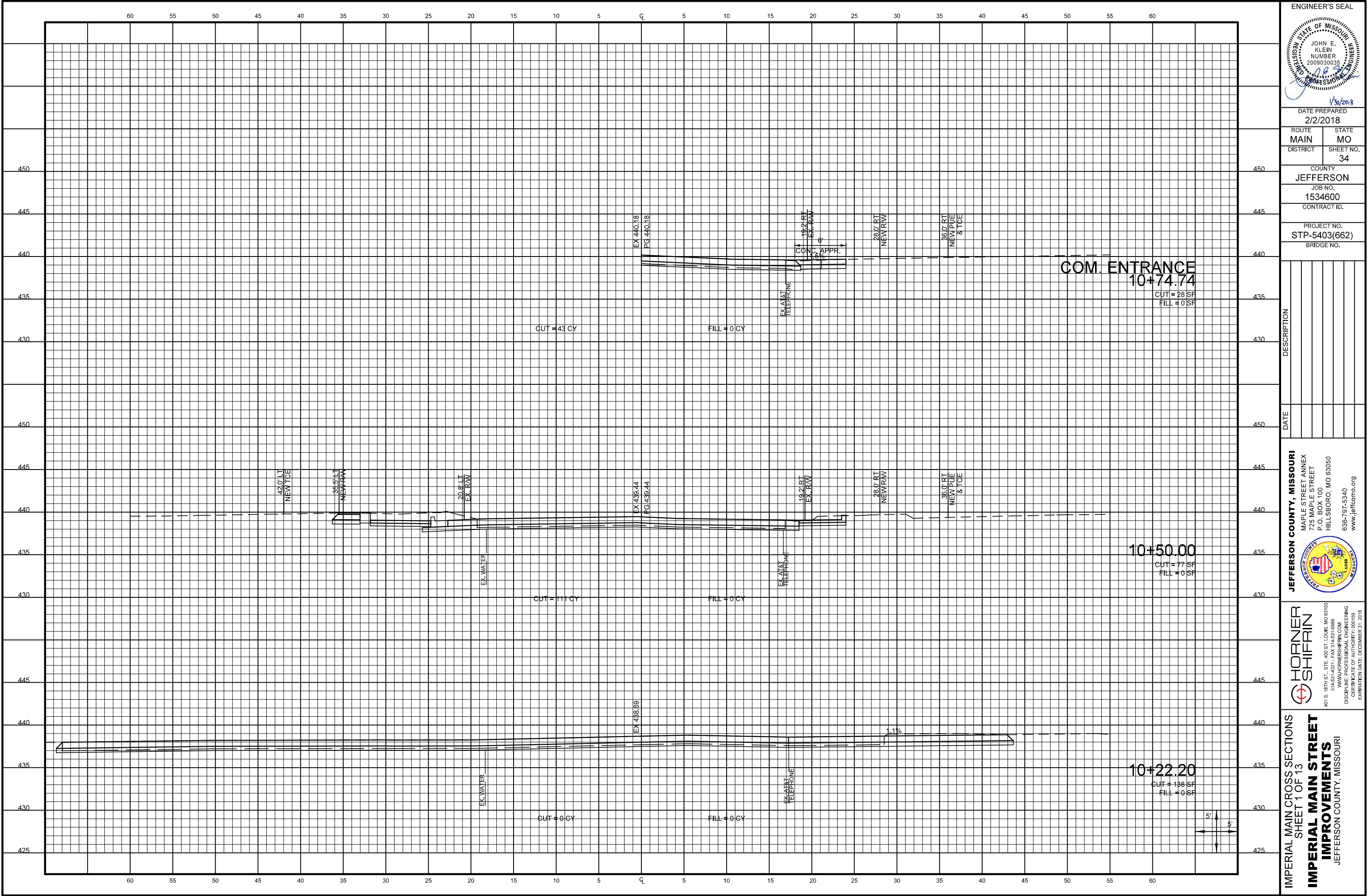


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LIGHTING DETAILS
SHEET 1 OF 1

**IMPERIAL MAIN STREET
IMPROVEMENTS**

JEFFERSON COUNTY, MISSOURI



ENGINEER'S SEAL

DATE PREPARED
2/2/2018

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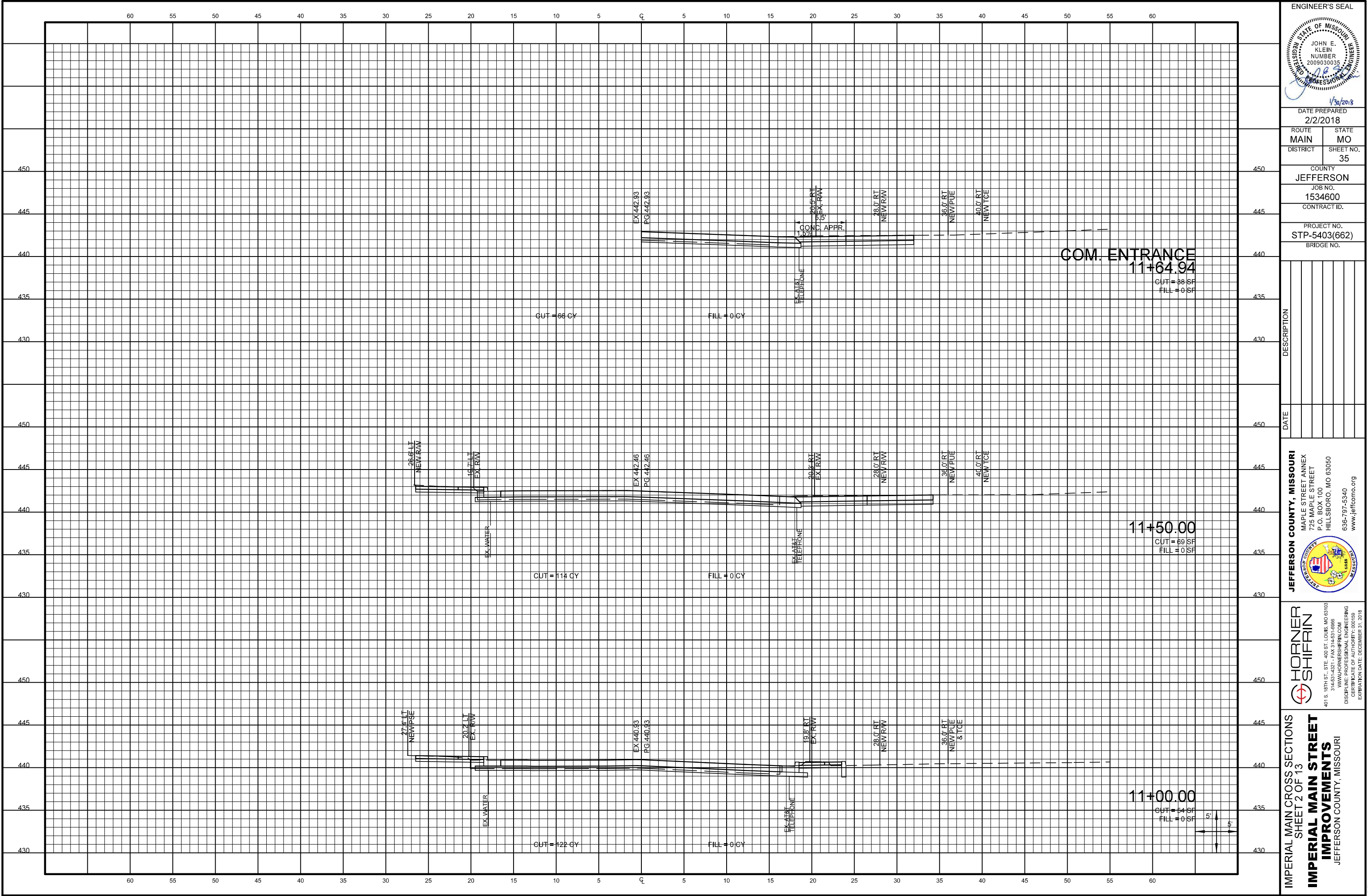
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IMPERIAL MAIN CROSS SECTIONS
SHEET 1 OF 13
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

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DATE PREPARED
2/2/2018

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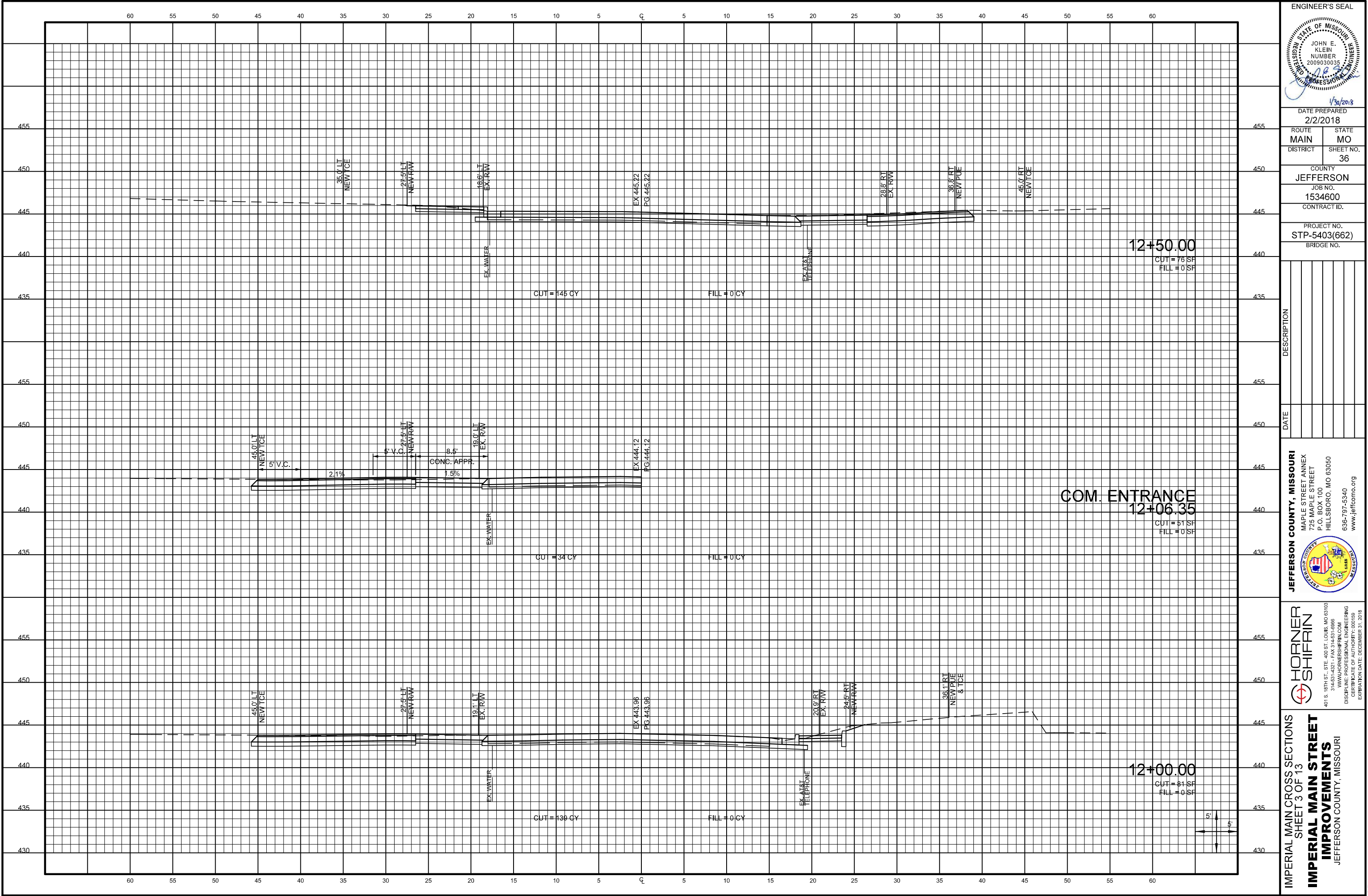
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SHEET 2 OF 13
IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

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ENGINEER'S SEAL

STATE OF MISSOURI

JOHN E. KLEIN

NUMBER 2009030035

1/30/2018

DATE PREPARED
2/2/2018

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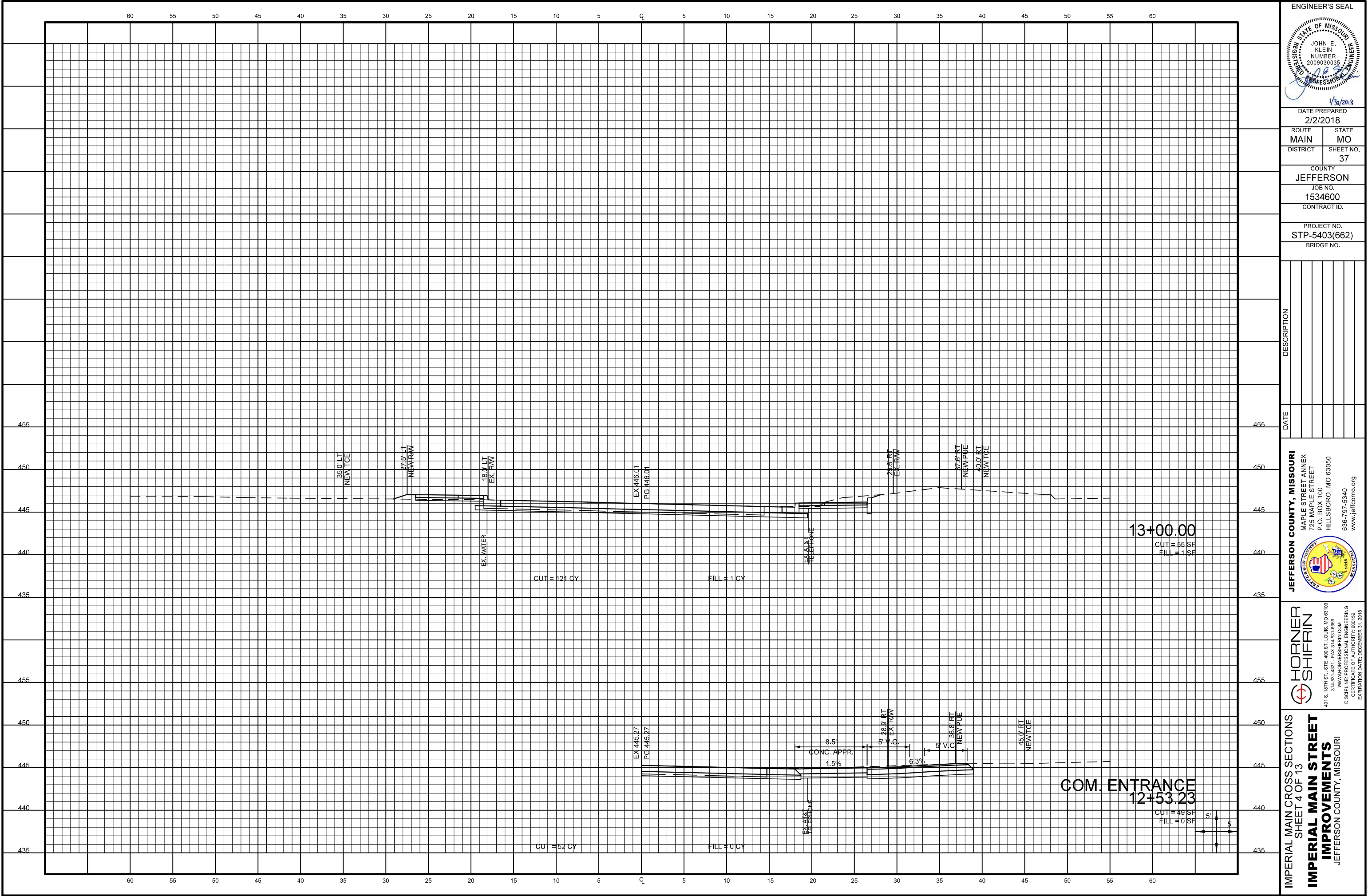
IMPERIAL MAIN CROSS SECTIONS

SHEET 3 OF 13

IMPERIAL MAIN STREET

IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI



ENGINEER'S SEAL

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NUMBER 2009030035

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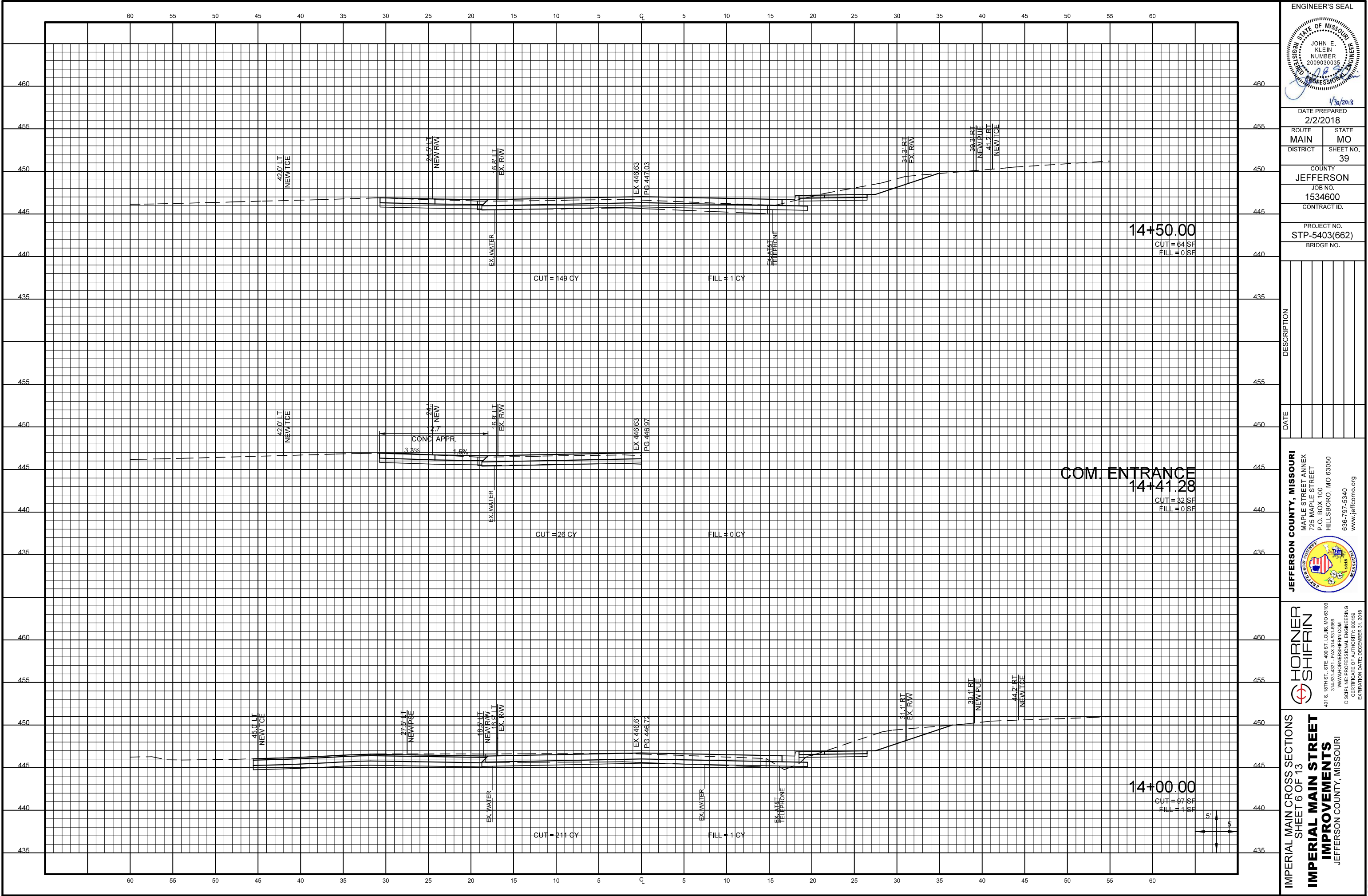
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IMPERIAL MAIN STREET
SHEET 4 OF 13
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI



ENGINEER'S SEAL

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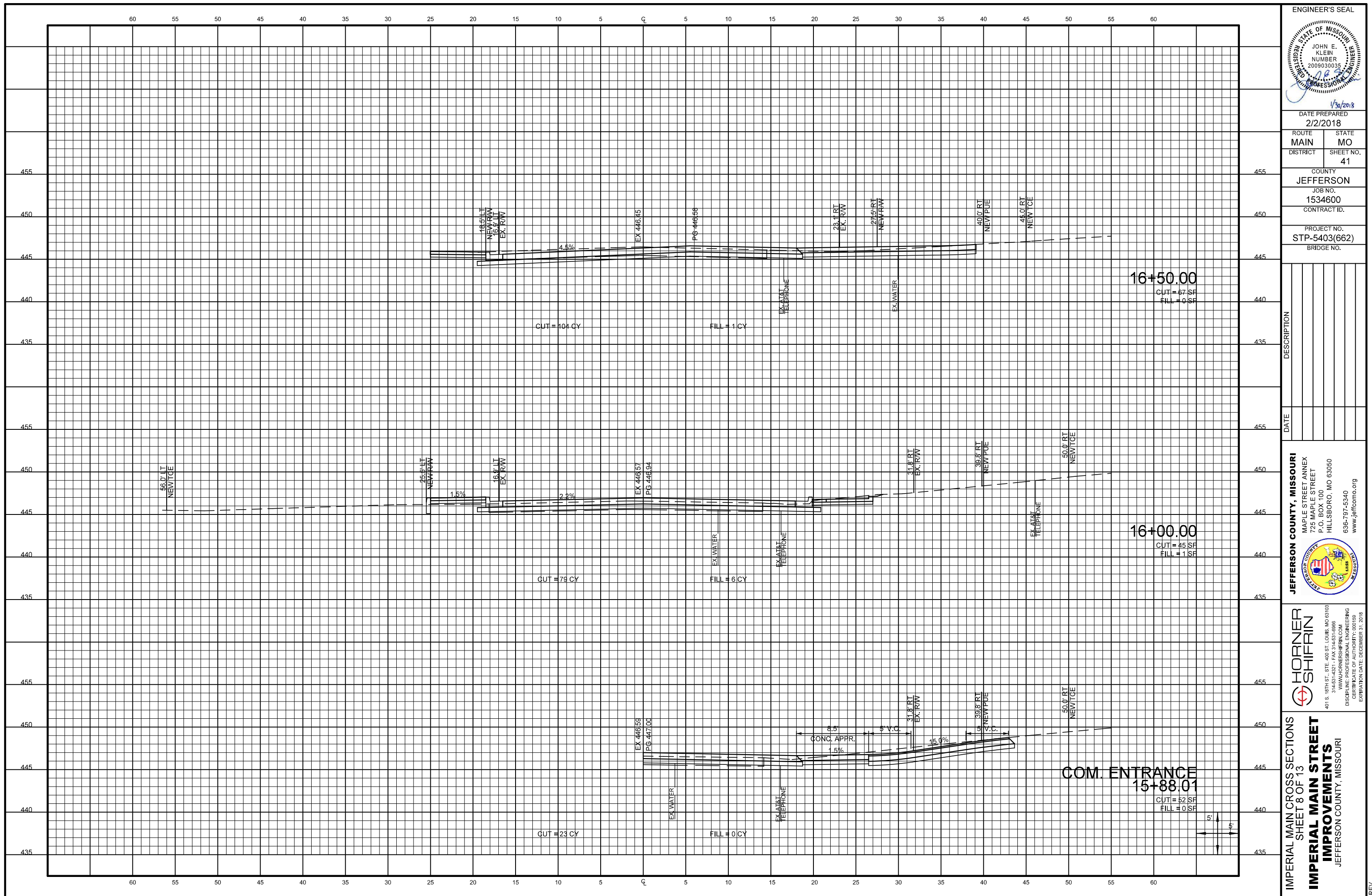
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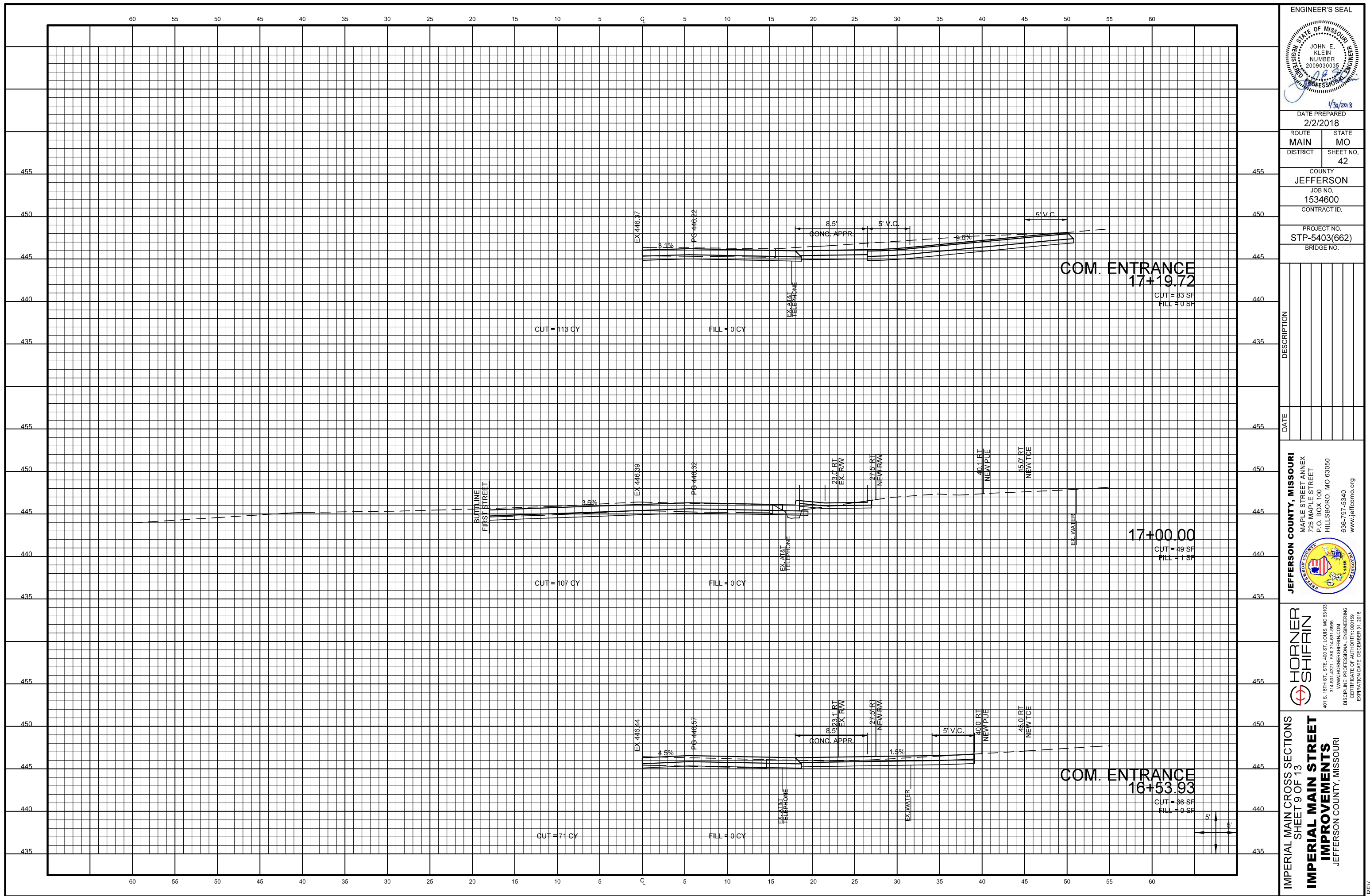
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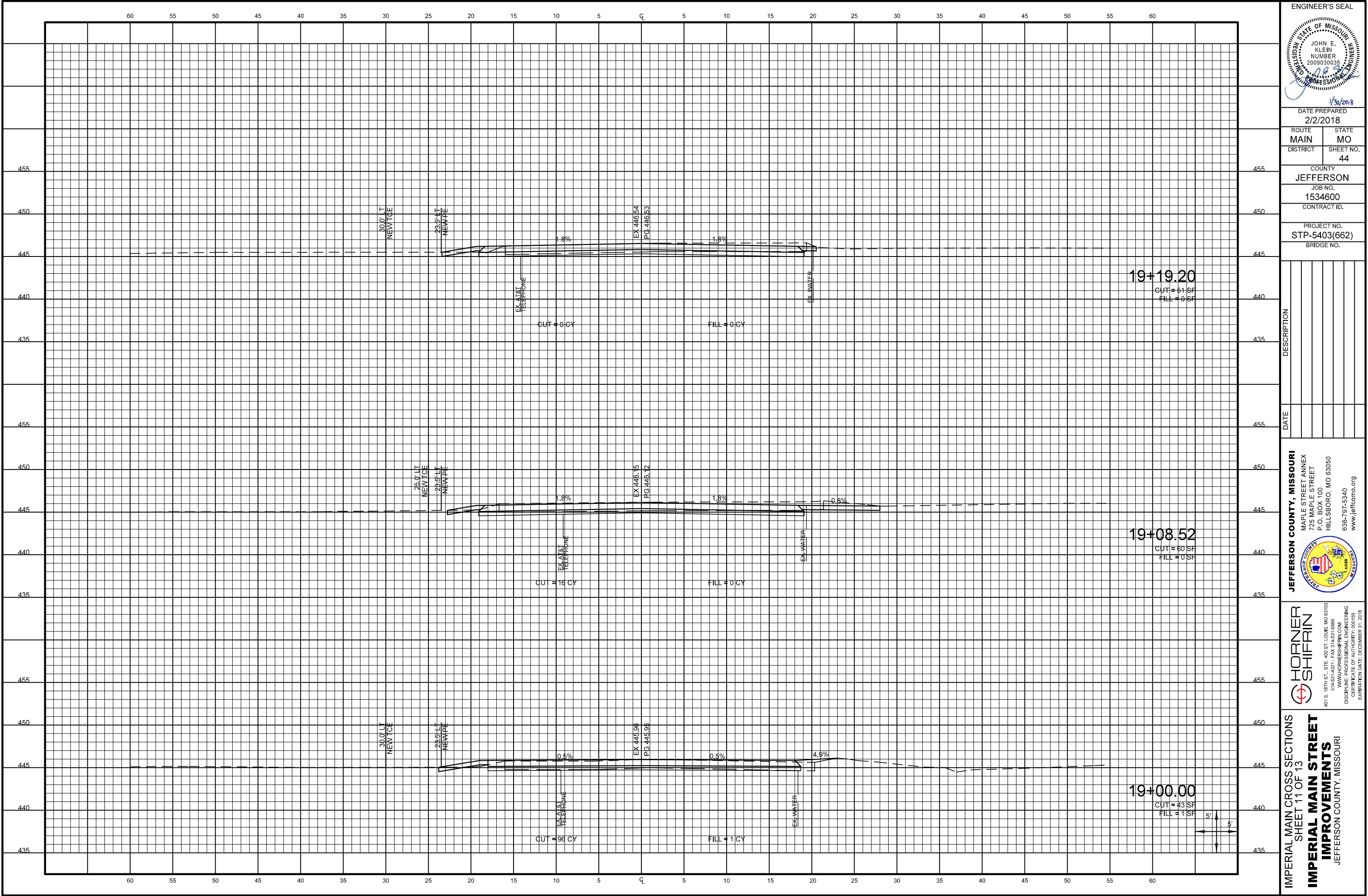
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IMPERIAL MAIN STREET IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI







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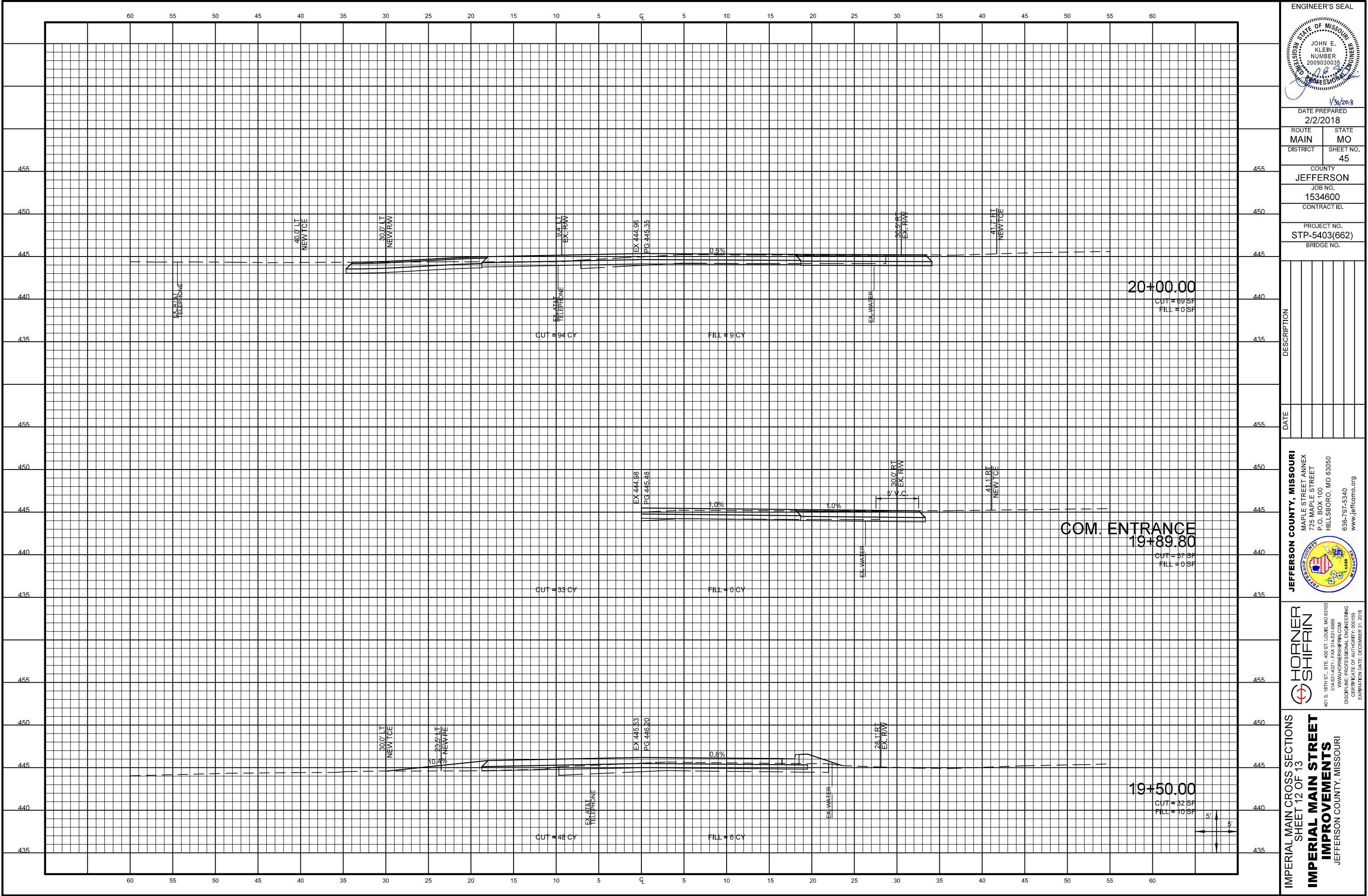
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SHEET 11 OF 13

IMPERIAL MAIN STREET
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JEFFERSON COUNTY, MISSOURI

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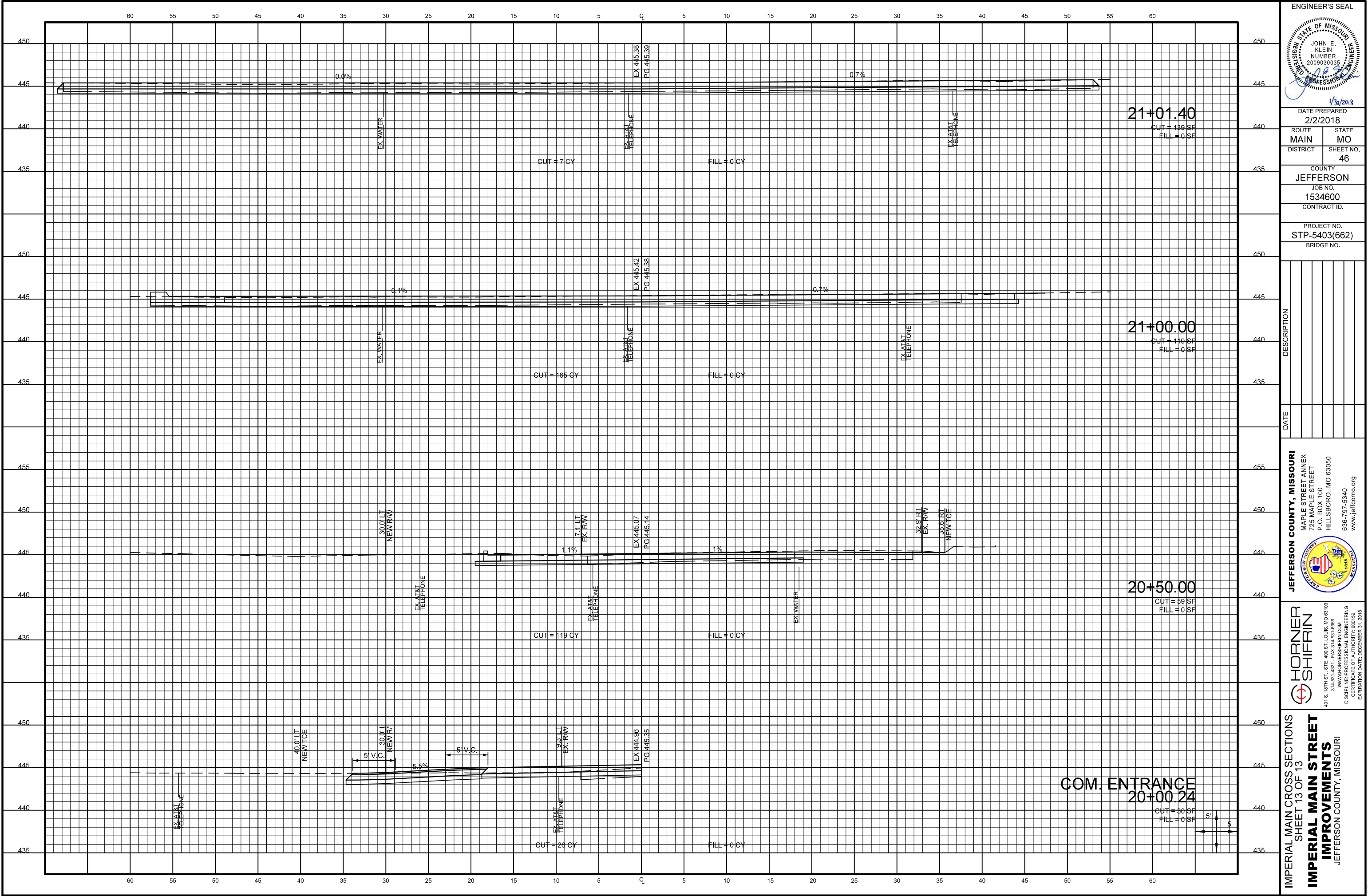
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SHEET 12 OF 13
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JEFFERSON COUNTY, MISSOURI



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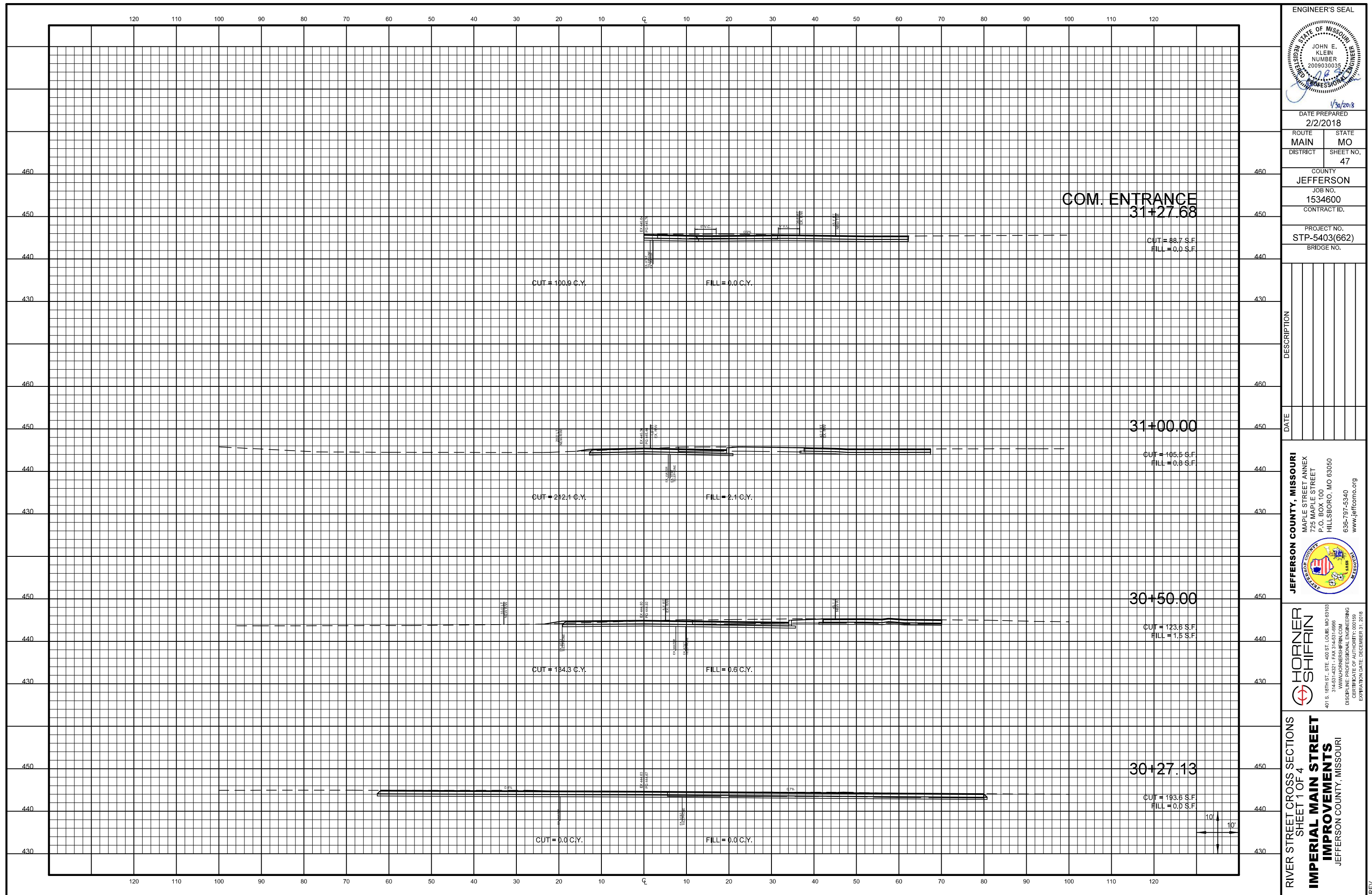
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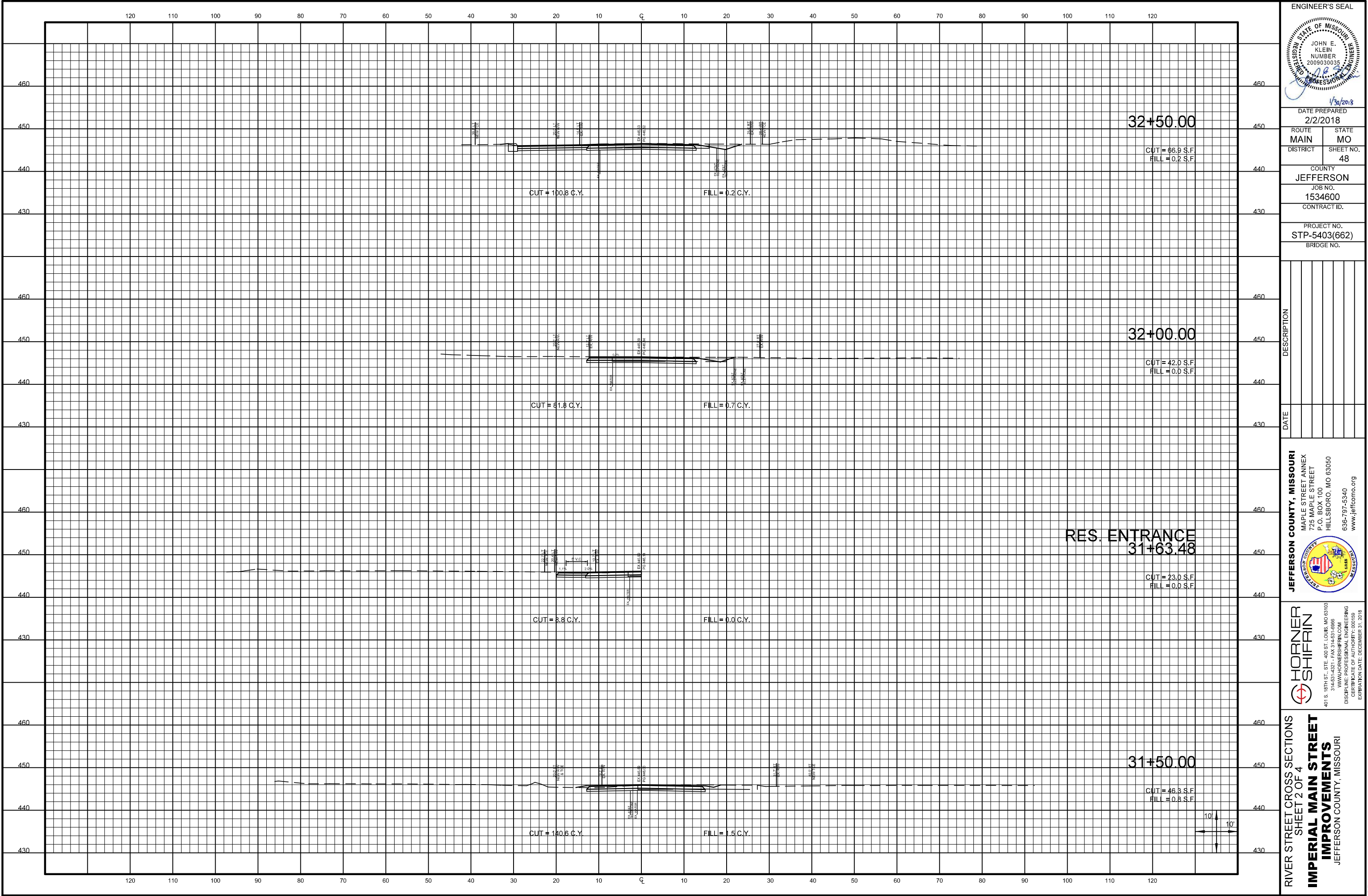
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IMPERIAL MAIN CROSS SECTIONS
SHEET 13 OF 13

IMPERIAL MAIN STREET
IMPROVEMENTS
JEFFERSON COUNTY, MISSOURI

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ENGINEER'S SEAL

STATE OF MISSOURI

JOHN E. KLEIN

NUMBER 2009030035

1/30/2018

DATE PREPARED

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ROUTE

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RIVER STREET CROSS SECTIONS

SHEET 2 OF 4

IMPERIAL MAIN STREET IMPROVEMENTS

JEFFERSON COUNTY, MISSOURI

