# Cummins Engineering Corporation

135 West Lake Shore Drive Springfield, Illinois 62703 Phone: 217-726-8570

January 20, 2022

Mr. Jeff Blue Champaign County Engineer Champaign County Highway Department 1605 East Main Street Urbana, IL. 61802

Subject:

**Proposal for Survey Services** 

Bridge Hydraulic Survey Existing SN 010-0144

TR 250N over 2 Mile Slough, Pesotum Township

Dear Jeff:

Please consider this our proposal to perform a bridge hydraulic survey at the subject site.

We propose to provide the surveying services in accordance with the attached prepared survey checklist and rate schedule. The upper limit cost to complete the above stated work is \$7000.00 to be billed at our standard hourly rates.

All direct costs are included in the above stated price. Payments will be due no later than 30 days after the date shown on an invoice. Any work not listed will be completed upon authorization from your office and billed using our standard hourly rates.

If you find this proposal satisfactory, please sign this proposal and return a copy for our files.

Sincerely yours, Cummins Engineering Corporation

Kimberly S. Cummins

**CEO** 

#### **CUMMINS ENGINEERING CORPORATION**

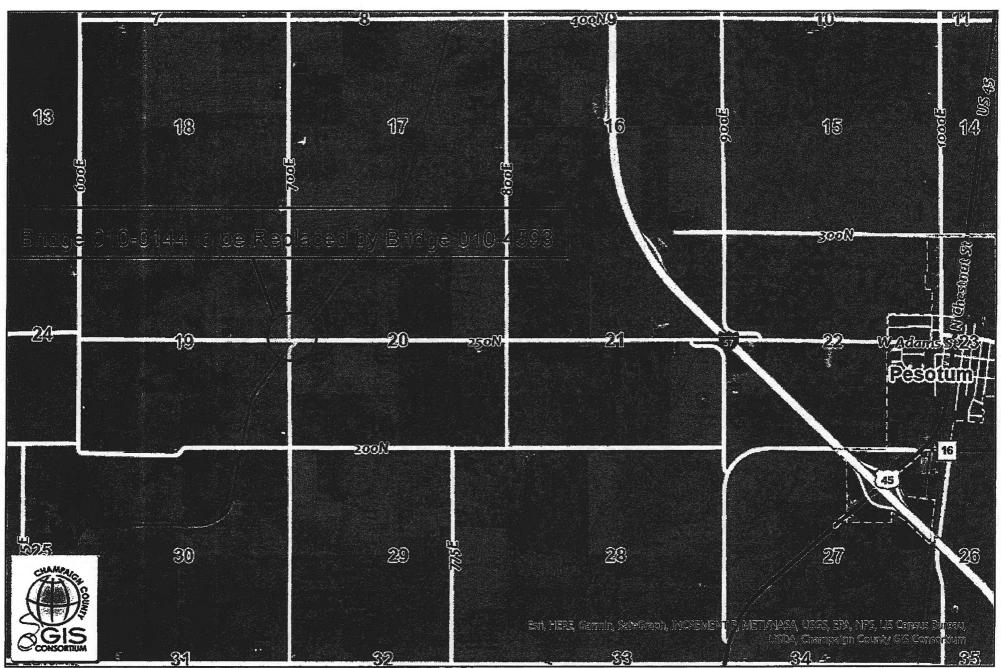
135 West Lake Shore Dr. Springfield, Illinois 62703 (217) 726-8570

CEC Job No:
Route / Description: CR 250 N
County: Champaign
Section:
SN: 010-0144 -> 010-4593

	SURVEY CHECKLIST
ı.	INITIAL PAGE
-	JOB NO., LOCATION; NOTE JOB IN INDEX; KEEP DAILY LOG OF FIELD CREW, WEATHER, DATE (ENTER IN FIELD BOOK EACH DAY ON THE PAGE YOU START.)
	DESCRIBE EXISTING BRIDGE(S): LOAD RATING, BRIDGE TYPE, RAIL TYPE, DECK TYPE, SUBSTRUCTURE TYPE, MEASURE F.F. WIDTH, F.F. ABUT., F.F. RAIL, F.F. CURB; SURFACE & ROADWAY DIMENSIONS AND UTILITIES ON STRUCTURE.
2.	SET VERTICAL CONTROL
	GPS SUFFICIENT UNLESS OTHERWISE NOTED (USGS POINT, NGS BENCHMARK OR F.I.S. R.M.)
	RUN B.M. CIRCUIT, 3 B.M.'s (ONE NOT ON BRIDGE) DESCRIBE B.M.'s W/ STATION, OFFSET & ELEVATION. LOCATE WITH TOPO SHOT.
3.	SET HORIZONTAL CONTROL 325
	SET TWO P.O.T.'S A MINIMUM OF \$25' FROM CL BRIDGE. SPLIT THE EXISTING PAVEMENT AND SET POINTS AT EACH END OF PROJECT AND A P.O.T. AT CENTERLINE OF BRIDGE (STA. 10+00 OR AS DIRECTED). IF THE BRIDGE IS NOT IN THE CENTER OF ROADWAY OR OTHER UNUSUAL ALIGNMENT FEATURES ARE PRESENT OTHER POINTS MAY NEED TO BE SET. CONTACT CEC ROADWAY ENGINEER FOR COORDINATION. LIST CONTROL POINTS AND ALIGNMENT POINTS WITH COORDINATES AND POINT NUMBER IN AN ALIGNMENT LAYOUT SKETCH. FOR HORIZONTAL CURVES PROVIDE COORDINATES FOR PC, PI AND PT. TIE ALL POINTS WITH THREE TIES EACH AS NEEDED. PROVIDE SKETCH OF ALIGNMENT AND CROSS TIES IN NOTES.
	OTHER
4.	FIELD SURVEY
	TOPO: TAKE ALL TOPO 300 (FT) EACH WAY FROM BRIDGE, EXTEND 60 (FT) RT & LT, NOTE ANY SWALES OR SPECIAL DRAINAGE. P. L. & OWNERS, ROW MARKERS, UTILITIES AND ADDRESSES. ER, FC, POLES, TREES, PIPES, ENTRANCE, ROADWAY SURFACE TYPE (MATERIAL). ENTRANCE CL STATION AND PERPENDICULAR CL STATION. TAKE 4 SHOTS AT PIPE CULV. FOR DTM: FL, GR @ RT & LT & TOP. NOTE SIZE, TYPE, CONDITION OF ALL PIPES IN TOPO NOTES.
	DTM SURVEY: ROAD CROSS SECTIONS AT 50' INTERVALS THROUGH PROJECT AREA EACH WAY FROM BRIDGE AND @ 25' INTERVALS FOR 100' EITHER SIDE OF BRIDGE NEAR THE BRIDGE. TAKE CROSS SECTION AT EACH BRIDGE ABUTMENT OR AT BOTH ENDS OF SKEWED CROSS RD. CULV. WITH A SKEWED SECTION ALONG THE CULV. CENTERLINE. TAKE AT ENTRANCES: ONE AT BOTH ENDS OF PIPE AND HALF SECTION. NOTE FLOWLINE (FL) OF DITCH; EXTEND 50' RT & LT.
	ROAD PROFILE: PROFILE MAINLINE AND SIDEROADS AT 50' INTERVALS 300 (FT) EACH WAY OUTSIDE LIMITS OF CROSS SECTIONS, EXTEND ABOVE HIGHWATER ELEVATION OR FLOODPLAIN (APPROX EL =)
	MEASURE ROADWAY SURFACE WIDTH & SHOULDER-SHOULDER WIDTH WITH TAPE
	SR VOUTH 150'
5.	HYDRAULIC SURVEY
Ο.	DESCRIBE EXISTING CULVERT(S): TYPE, SIZE, NUMBER BOXES, SHOOT FL & INVERT ON CONCRETE AT INLET AND OUTLET, MEASURE LENGTH, MEASURE F.F. WIDTH, SURFACE AND ROADWAY DIMENSIONS.
	STRUCTURE OPENINGS: PROFILE BOTH SIDES OF STRUCTURE OPENING(S): LOW STEEL OR LOW CONC, GROUND @ FC OF ABUTS AND PIERS, BERMS, SLOPEWALL, EW, & FL.

TAKE SHOTS AT CORNERS AND FLOOR ELEVATIONS OF AFFECTED HOUSES IN FLOODPLAIN US OF STRUCTURE(S).  STREAM MEANDER: LOCATE STREAM MEANDER 150' US & DS FROM STRUCTURE(S). LOCATE @ 25', 50' 100' & 150'. AND AT 200' IF STREAM IS WITHIN A BEND.  STREAM CROSS SECTIONS: DESCRIBE CHANNEL SOIL AND FLOOD PLAIN COVER WHERE STREAM X SECTIONS ARE TAKEN, I.E., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.  STREAM PROFILE: 500' US FROM THE STRUCTURE AND 500' DS FROM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER 500' US & DS FROM THE STRUCTURE. STRUCTURE.  TYPICAL FLOODPLAIN STREAM CROSS SECTIONS: (FT) US AND DS OF EACH STRUCTURE; IF OVERLAPS TAKE MOST CONSTRICTIVE X-SECTION BETWEEN THE TWO.  MULTIPLE STRUCTURE: (FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  SINGLE STRUCTURE: (FLOODPLAIN XSEC TOTAL: SEE MAP)  OTHER COLL CHAINE (TB - TB) FROM OPENIAL TO & 500 DURTER CORNERS. IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  OTHER	OF RESIDENT AND LENGTH OF RESIDENCY; TALK TO MORE THAN ONE PERSON IF POSSIBLE;  OF RESIDENT AND LENGTH OF RESIDENCY; TALK TO MORE THAN ONE PERSON IF POSSIBLE;  AND THE GONE OVER THE ROAD? DOES STREAM RISE RAPIDLY? GET OUT OF BANKS? H.W. MARKS TAKE SHOTS AT CORNERS AND FLOOR ELEVATIONS OF AFFECTED HOUSES IN FLOODPLAIN US OF STRUCTURE(S).  I STREAM MEANDER: LOCATE STREAM MEANDER 150' US & DS FROM STRUCTURE(S). LOCATE @ 25', 50' 100' & 150'. AND AT 200' IF STREAM IS WITHIN A BEND.  I STREAM MEANDER: LOCATE STREAM IS WITHIN A BEND.  I STREAM CROSS SECTIONS: DESCRIBE CHANNEL SOIL AND FLOOD PLAIN COVER WHERE STREAM X SECTIONS ARE TAKEN, LE., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.  I STREAM PROFILE: 5'DO' ' US FROM THE STRUCTURE AND 5'DO' ' DS FROM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER 5DO' ' US & DS FROM THE STRUCTURE.  I TYPICAL FLOODPLAIN STREAM CROSS SECTIONS: @ (FT) US AND DS OF EACH STRUCTURE; IF OVERLAPS TAKE MOST CONSTRICTIVE X-SECTION BETWEEN THE TWO.    MULTIPLE STRUCTURES: (		NOTE ANY SCOUR AT STRUCTURE(S): IF SO, CAUSED BY: DEBRIS? POOR STREAM ALIGNMENT? INADEQUATE OPENING?
50' 100' & 150'. AND AT 200' IF STREAM IS WITHIN A BEND.  STREAM CROSS SECTIONS: DESCRIBE CHANNEL SOIL AND FLOOD PLAIN COVER WHERE STREAM X SECTIONS ARE TAKEN, I.E., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.  STREAM PROFILE: 500' 'US FROM THE STRUCTURE AND 500' DS FROM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER 500 'US & DS FROM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER 500 'US & DS FROM THE STRUCTURE. STRUCTURE: OVERLAPS TAKE MOST CONSTRICTIVE X-SECTION BETWEEN THE TWO.  WILLIPLE STRUCTURE: FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  SINGLE STRUCTURE: FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  OTHER 600 C FLOOPPLAIN XSEC TOTAL: SEE MAP)  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER 600 THE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  ASCIENCE FROM EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCI FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	50'100' & 150'. AND AT 200' IF STREAM IS WITHIN A BEND.    STREAM CROSS SECTIONS: DESCRIBE CHANNEL SOIL AND FLOOD PLAIN COVER WHERE STREAM X SECTIONS ARE TAKEN, I.E., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.   STREAM PROFILE: SEO' ' US FROM THE STRUCTURE AND SETOM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER SEO ' US & DS FROM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER SEO ' US & DS FROM THE STRUCTURE. STRUCTURE. FOVERLAPS TAKE MOST CONSTRICTIVE X-SECTION BETWEEN THE TWO.    MULTIPLE STRUCTURES: ( FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)   SINGLE STRUCTURE: ( FLOODPLAIN XSEC TOTAL: SEE MAP)   OTHER		OF RESIDENT AND LENGTH OF RESIDENCY; TALK TO MORE THAN ONE PERSON IF POSSIBLE; HAS WATER GONE OVER THE ROAD? DOES STREAM RISE RAPIDLY? GET OUT OF BANKS? H.W. MARKS? TAKE SHOTS AT CORNERS AND FLOOR ELEVATIONS OF AFFECTED HOUSES IN FLOODPLAIN US OF
SECTIONS ARE TAKEN, I.E., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.  STREAM PROFILE: 500' US FROM THE STRUCTURE AND 500' DS FROM THE STRUCTURE. SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER 500 US & DS FROM THE STRUCTURE.  TYPICAL FLOODPLAIN STREAM CROSS SECTIONS: (FT) US AND DS OF EACH STRUCTURE; IF OVERLAPS TAKE MOST CONSTRICTIVE X-SECTION BETWEEN THE TWO.  MULTIPLE STRUCTURES: (FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  SINGLE STRUCTURE: (FLOODPLAIN SEC TOTAL: SEE MAP)  OTHER MOSE CHANNE (TB-TB) FROM OPENING TO 22 COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	SECTIONS ARE TAKEN, I.E., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.  STREAM PROFILE: 500 'US FROM THE STRUCTURE AND 500 'DS FROM THE STRUCTURE. SHOTS AT 100 INTERVALS. INCLUDE A SHOT AT TOP OF WATER 500 'US & DS FROM THE STRUCTURE.  TYPICAL FLOODPLAIN STREAM CROSS SECTIONS: @ (FT) US AND DS OF EACH STRUCTURE; IF OVERLAPS TAKE MOST CONSTRICTIVE X-SECTION BETWEEN THE TWO.  MULTIPLE STRUCTURES: (FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  SINGLE STRUCTURE: FLOODPLAIN XSEC TOTAL: SEE MAP)  OTHER FOOL CHAINE (TB - TB) FROM OPENIAL TO 2 500 COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS, IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		
SHOTS AT 100 'INTERVALS. INCLUDE A SHOT AT TOP OF WATER	SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER		SECTIONS ARE TAKEN, I.E., HEAVY BRUSH ON BANKS, CLEAN SANDY BOTTOM, TALL GRASS ON BANKS, ETC.
MULTIPLE STRUCTURES: ( FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  SINGLE STRUCTURE: ( FLOODPLAIN XSEC TOTAL: SEE MAP)  OTHER OF Chaine ( TB - TB ) From OPENING To 2 50  LAND SURVEYING  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	MULTIPLE STRUCTURES: ( FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)  SINGLE STRUCTURE: ( FLOODPLAIN XSEC TOTAL: SEE MAP)  OTHER		SHOTS AT 100' INTERVALS. INCLUDE A SHOT AT TOP OF WATER <u>500</u> ' US & DS FROM THE STRUCTURE.  TYPICAL FLOODPLAIN STREAM CROSS SECTIONS: @ (FT) US AND DS OF EACH
□ SINGLE STRUCTURE: (	□ SINGLE STRUCTURE: ( FLOODPLAIN XSEC TOTAL: SEE MAP) □ OTHER Model Channe (TB-TB) From OPENING TO & SC  LAND SURVEYING □ COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS, IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE. □ LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/ DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES. □ LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC. □ OTHER □  MISCELLANEOUS □ TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK. □ AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST. □ LOCATE BORING LAYOUTS. □ ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	_	
□ SINGLE STRUCTURE: (	□ SINGLE STRUCTURE: ( FLOODPLAIN XSEC TOTAL: SEE MAP) □ OTHER Model Channe (TB-TB) From OPENING TO & SC  LAND SURVEYING □ COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS, IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE. □ LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/ DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES. □ LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC. □ OTHER □  MISCELLANEOUS □ TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK. □ AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST. □ LOCATE BORING LAYOUTS. □ ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	-	
OTHER MODE Channe (TB-TB) From OPENING TO & 60  LAND SURVEYING  □ COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE. □ LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES. □ LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC. □ OTHER □ TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK. □ AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST. □ LOCATE BORING LAYOUTS. □ ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	OTHER Mode Channe (TB-TB) From OPENING TO & GO LAND SURVEYING  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/ DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES I PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		MULTIPLE STRUCTURES: ( FLOODPLAIN CROSS SECTIONS EACH: SEE MAP)
LAND SURVEYING  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  □ LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  □ LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  □ OTHER		
LAND SURVEYING  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	LAND SURVEYING  COURTHOUSE RESEARCH. CHECK FOR LOCAL RECORDED MONUMENTS, SECTION CORNERS OR QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/ DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		OTHER MOJE! Channel (TB-TB) FROM OPENING TO & 50
QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	QUARTER CORNERS., IDENTIFY LANDOWNERS AND COPY DEED AND PLATS AVAILABLE.  LOCATE NEAREST IDENTIFIED SECTION CORNERS WITHIN TOPO SURVEY OR TURN ANGLE/DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	L	DS OF STRUCTURE
DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	DISTANCE FROM KNOWN CONTROL POINTS. LOG TIES IN NOTES.  LOCATE ANY PROPERTY LINES / PINS AVAILABLE. IF NO DEFINITE MARKERS, ASK LOCAL RESIDENT FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		
FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	FOR GENERAL INFO: CROPLINES, FP, STREAM, ETC.  OTHER  MISCELLANEOUS  TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		
MISCELLANEOUS  Take Pictures, Make a Photo Log, Download Pictures to the Network.  At the completion of each survey, Download Survey, Print Raw Data, and reduced ascii file. Return completed field book, Survey request form and signed survey checklist.  Locate Boring Layouts.  Attached topo Maps, High Water Information, etc.	MISCELLANEOUS  Take Pictures, Make a Photo Log, Download Pictures to the Network.  Take Pictures, Make a Photo Log, Download Survey, Print Raw Data, and Reduced ascii file. Return completed field Book, Survey Request form and Signed Survey Checklist.  Locate Boring Layouts.  Take Pictures, Make a Photo Log, Download Pictures to the Network.  Take Pictures, Make a Photo Log, Download Pictures to the Network.  Take Pictures, Make a Photo Log, Download Pictures to the Network.		
TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		OTHER
TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.  THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.		
AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	AT THE COMPLETION OF EACH SURVEY, DOWNLOAD SURVEY, PRINT RAW DATA, AND REDUCED ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	. M	ISCELLANEOUS
ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY CHECKLIST.  LOCATE BORING LAYOUTS.  ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	E	TAKE PICTURES, MAKE A PHOTO LOG, DOWNLOAD PICTURES TO THE NETWORK.
ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.	-	ASCII FILE. RETURN COMPLETED FIELD BOOK, SURVEY REQUEST FORM AND SIGNED SURVEY
OTHER NOTES	OTHER NOTES		LOCATE BORING LAYOUTS.
			ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.
			ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.
			ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.
			ATTACHED TOPO MAPS, HIGH WATER INFORMATION, ETC.

# Pesotum Bridge Replacement



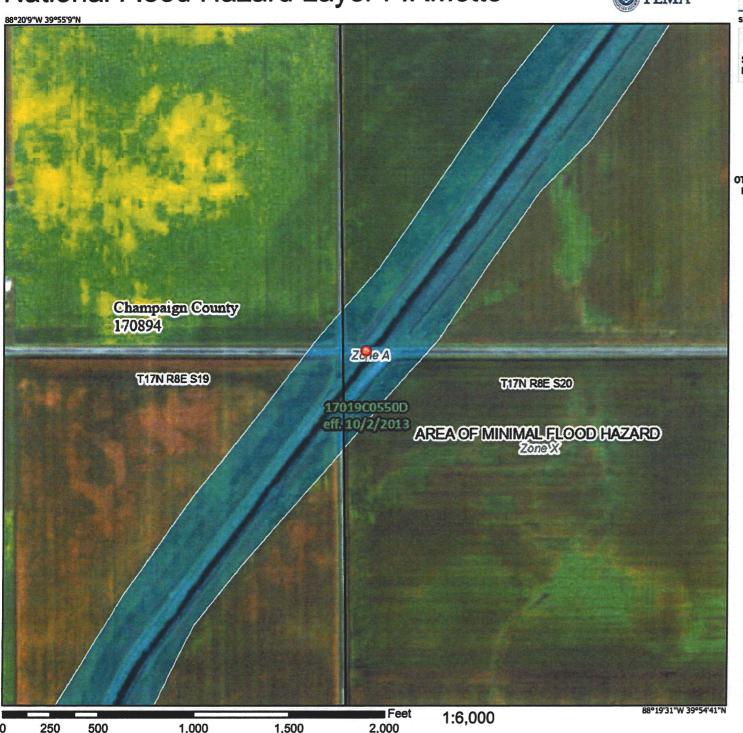
This map was prepared with geographic Information system (GIS) data created by the Champaign County GIS Consortium (CCGISC), or other CCGISC member agency. These entities do not warrant or guarantee the accuracy or suitability of GIS data for any purpose. The GIS data within this map is intended to be used as a general index to spatial information and not intended for detailed, site-specific analysis or resolution of legal matters. Users assume all risk arising from the use or misuse of this map and information contained herein. The use of this map constitutes acknowledgement of this disclaimer.

0.45



## National Flood Hazard Layer FIRMette





#### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)
Zone A, V. A99 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone ) **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee, See Notes, Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X **Effective LOMRs** OTHER AREAS Area of Undetermined Flood Hazard Zone -- Channel, Culvert, or Storm Sewer STRUCTURES | 111111 Levee, Dike, or Floodwall **Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect** - 5/3 ---- Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

This map compiles with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown compiles with FEMA's basemap accuracy standards

The pin displayed on the map is an approximate point selected by the user and does not represe

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/20/2022 at 1:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

### **Cummins**

# **Engineering**

**Corporation** 

135 West Lake Shore Drive Springfield, Illinois 62703 Phone: 217-726-8570

#### **HOURLY BILLING RATES-COUNTY RATES**

(Including Overhead and Profit as of November 1, 2021)

CLASSIFICATION		JRLY RATE
PRINCIPAL	\$	182.00
LICENSED STRUCTURAL ENGINEER	•	169.00
STRUCTURAL ENGINEER II	\$	118.30
STRUCTURAL ENGINEER I	\$	-
PROFESSIONAL ENGINEER V	\$	169.00
PROFESSIONAL ENGINEER IV	\$	146.90
PROFESSIONAL ENGINEER III	\$	114.40
PROFESSIONAL ENGINEER II	\$	113.10
PROFESSIONAL ENGINEER I	\$	-
PROFESSIONAL LAND SURVEYOR III	\$	146.90
SURVEY CREW CHIEF	\$	92.30
LAND SURVEYOR	\$	89.83
NEGOTIATOR	\$	107.90
CONSTRUCTION ENGINEER	\$	130.00
CONSTRUCTION OBSERVER	\$	120.90
ENGINEERING TECHNICIAN V	\$	125.24
ENGINEERING TECHNICIAN IV	\$	123.50
ENGINEERING TECHNICIAN III	\$	107.90
ENGINEERING TECHNICIAN II	\$	96.20
ENGINEERING TECHNICIAN I	\$	83.20
OFFICE MANAGER	\$	91.00
ADMINISTRATIVE ASSISTANT	\$	52.00

Hourly Billing Rates are adjusted to account for annual salary adjustments effective May 1 or November 1. This schedule is also updated periodically to reflect changes in personnel. The most current schedule is attached to hourly agreements but these rates are subject to change annually and as necessary to reflect changes in personnel.