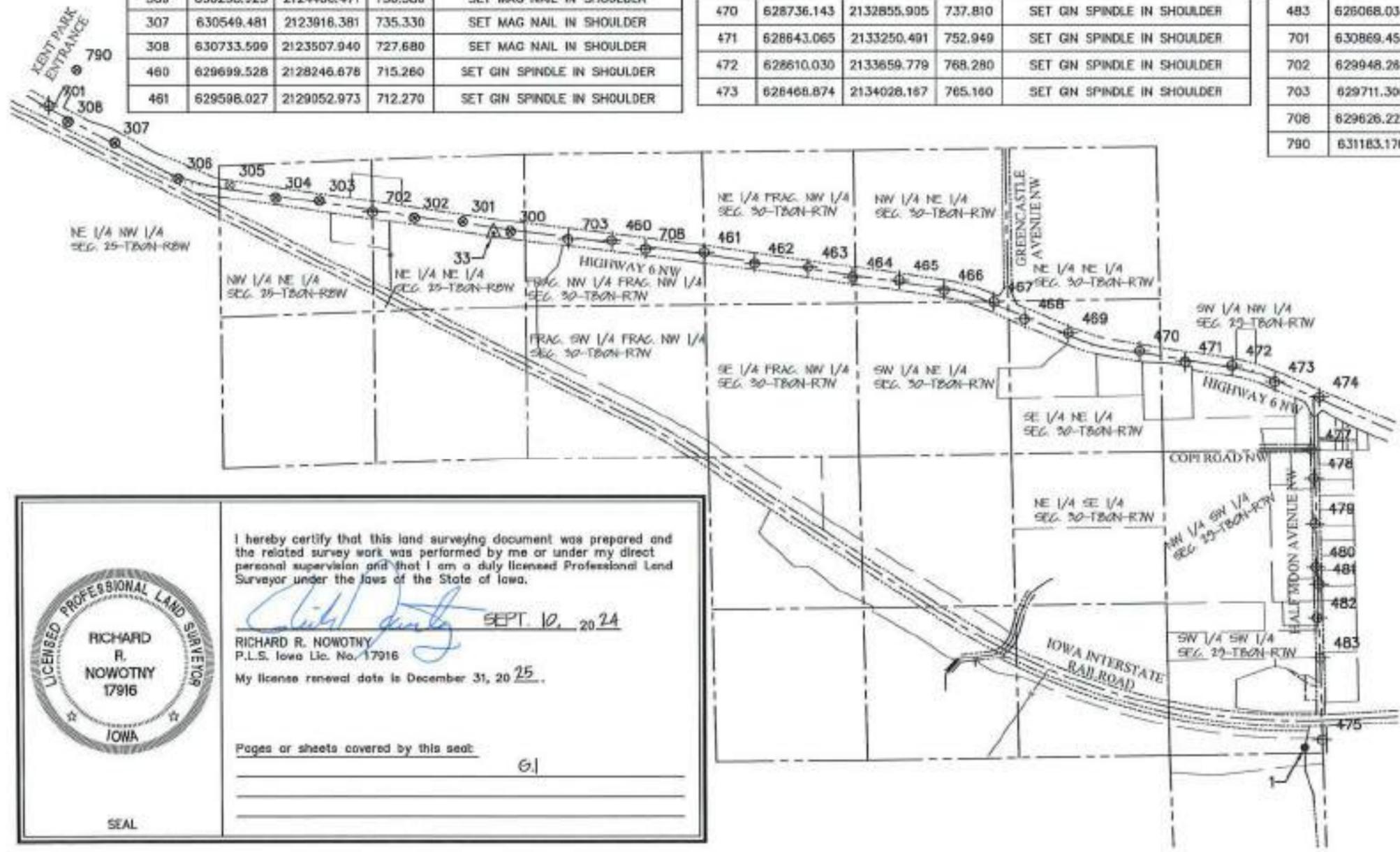


Point Table				
Point #	Northing	Easting	Elevation	Full Description
1	625287.855	2134278.086	0.000	FOUND 5/8" RBR W/DPC JOCO 12802
33			726.320	JOHNSON CO. GPS MON. 92-33
300	629777.180	2127367.773	725.650	SET MAG NAIL IN SHOULDER
301	629862.965	2128955.578	727.140	SET MAG NAIL IN SHOULDER
302	629895.741	2126528.036	728.910	SET MAG NAIL IN SHOULDER
303	630044.312	2125701.196	737.235	SET MAG NAIL IN SHOULDER
304	630069.684	2125320.038	734.500	SET MAG NAIL IN SHOULDER
305	630177.469	2124918.527	733.835	CUT X EAST ON TOP OF RCP
306	630238.925	2124486.471	736.380	SET MAG NAIL IN SHOULDER
307	630549.481	2123916.381	735.330	SET MAG NAIL IN SHOULDER
308	630733.599	2123507.940	727.680	SET MAG NAIL IN SHOULDER
460	629699.528	2128246.678	715.260	SET GIN SPINDLE IN SHOULDER
461	629596.027	2129052.973	712.270	SET GIN SPINDLE IN SHOULDER

Point Table				
Point #	Northing	Easting	Elevation	Full Description
462	629503.148	2129496.513	710.390	SET GIN SPINDLE IN SHOULDER
463	629467.054	2129964.692	710.230	SET GIN SPINDLE IN SHOULDER
464	629380.314	2130354.593	710.530	SET GIN SPINDLE IN SHOULDER
465	629352.930	2130758.145	711.880	SET GIN SPINDLE IN SHOULDER
466	629285.948	2131148.046	713.170	SET GIN SPINDLE IN SHOULDER
467	629164.624	2131577.890	715.758	SET GIN SPINDLE IN SHOULDER
468	629015.183	2131846.481	714.010	SET GIN SPINDLE IN SHOULDER
469	628889.760	2132228.318	715.510	SET GIN SPINDLE IN SHOULDER
470	628736.143	2132855.905	737.810	SET GIN SPINDLE IN SHOULDER
471	628643.065	2133250.491	752.949	SET GIN SPINDLE IN SHOULDER
472	628610.030	2133659.779	768.280	SET GIN SPINDLE IN SHOULDER
473	628468.874	2134028.167	765.160	SET GIN SPINDLE IN SHOULDER

Point Table				
Point #	Northing	Easting	Elevation	Full Description
474	628334.284	2134414.665	761.900	SET GIN SPINDLE IN SHOULDER
475	625355.983	2134431.614	707.100	SET GIN SPINDLE
477	627881.328	2134346.514	790.110	SET GIN SPINDLE
478	627625.225	2134365.585	796.370	SET 5/8" REBAR WITH PINK MMS CAP
479	627231.454	2134374.625	764.986	SET GIN SPINDLE
480	626853.271	2134381.339	766.960	SET GIN SPINDLE
481	626705.405	2134409.135	770.600	SET GIN SPINDLE
482	626410.826	2134392.010	749.746	SET GIN SPINDLE
483	626068.034	2134415.137	724.700	FOUND MAG NAIL
701	630869.453	2123339.739	722.699	SET GIN SPINDLE IN SHOULDER
702	629948.269	2126160.088	735.660	SET GIN SPINDLE IN SHOULDER
703	629711.308	2127668.775	716.340	SET GIN SPINDLE IN SHOULDER
708	629626.225	2128540.938	713.892	SET GIN SPINDLE IN SHOULDER
790	631183.170	2123586.022	732.896	SET MAG NAIL



SURVEY INDEX
 COUNTY: JOHNSON
 PROJECT NUMBER: TAP-U-CO52(127)-8I-52
 LOCATION: U.S. HIGHWAY #6 FROM HALF MOON AVENUE TO KENT PARK
 TYPE OF WORK: MULTI-PURPOSE TRAIL

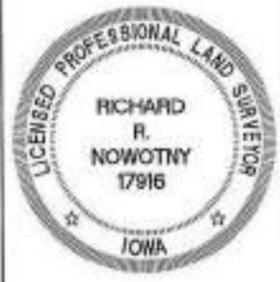
PROJECT CONTROL:
 HORIZONTAL DATUM: GROUND SCALED IOWA STATE PLANE COORDINATES SOUTH ZONE-RTN DERIVED. NAD83(2011) (EPOCH 2010.000) A COMPUTED COMBINATION SCALE FACTOR OF 1.0000414080 WAS APPLIED FROM POINT NUMBER 1.

VERTICAL DATUM: NAVD88 - A SINGLE POINT VERTICAL CALIBRATION WAS PERFORMED USING THE PUBLISHED DATA FROM JOHNSON COUNTY GPS MONUMENT 92-33 (POINT #33)

ADDITIONAL CONTROL POINTS WERE ESTABLISHED USING A COMBINATION OF GNSS OBSERVATIONS AND ROBOTIC TOTAL STATIONS. VERTICAL DATA WAS TRANSFERRED USING TRIGONOMETRIC LEVELING WITH ROBOTIC TOTAL STATIONS FROM POINT #33.

CONTROL MONUMENTATION CONSISTS OF COTTON GIN SPINDLES AND MAG NAILS DRIVEN INTO THE ASPHALT SHOULDERS ALONG HIGHWAY 6 AND IN THE SEALCOAT SURFACING ON HALF MOON AVENUE.

THE MAJORITY OF THE TOPOGRAPHIC DATA WAS COLLECTED IN THE SPRING OF 2021 AND THE SPRING OF 2022. IT IS NOTEWORTHY THAT THE CONTROL POINTS ALONG HALF MOON AVENUE ARE MORE SUBJECT TO HORIZONTAL AND VERTICAL MOVEMENT THAN THE POINTS ALONG HIGHWAY 6. HORIZONTAL AND VERTICAL CONTROL SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.



I hereby certify that this land surveying document was prepared and the related survey work was performed by me or under my direct personal supervision and that I am a duly licensed Professional Land Surveyor under the laws of the State of Iowa.

Richard R. Nowotny SEPT. 10, 2024

RICHARD R. NOWOTNY
P.L.S. Iowa Lic. No. 17916

My license renewal date is December 31, 2025.

Pages or sheets covered by this seal: 61

ALIGNMENT COORDINATES

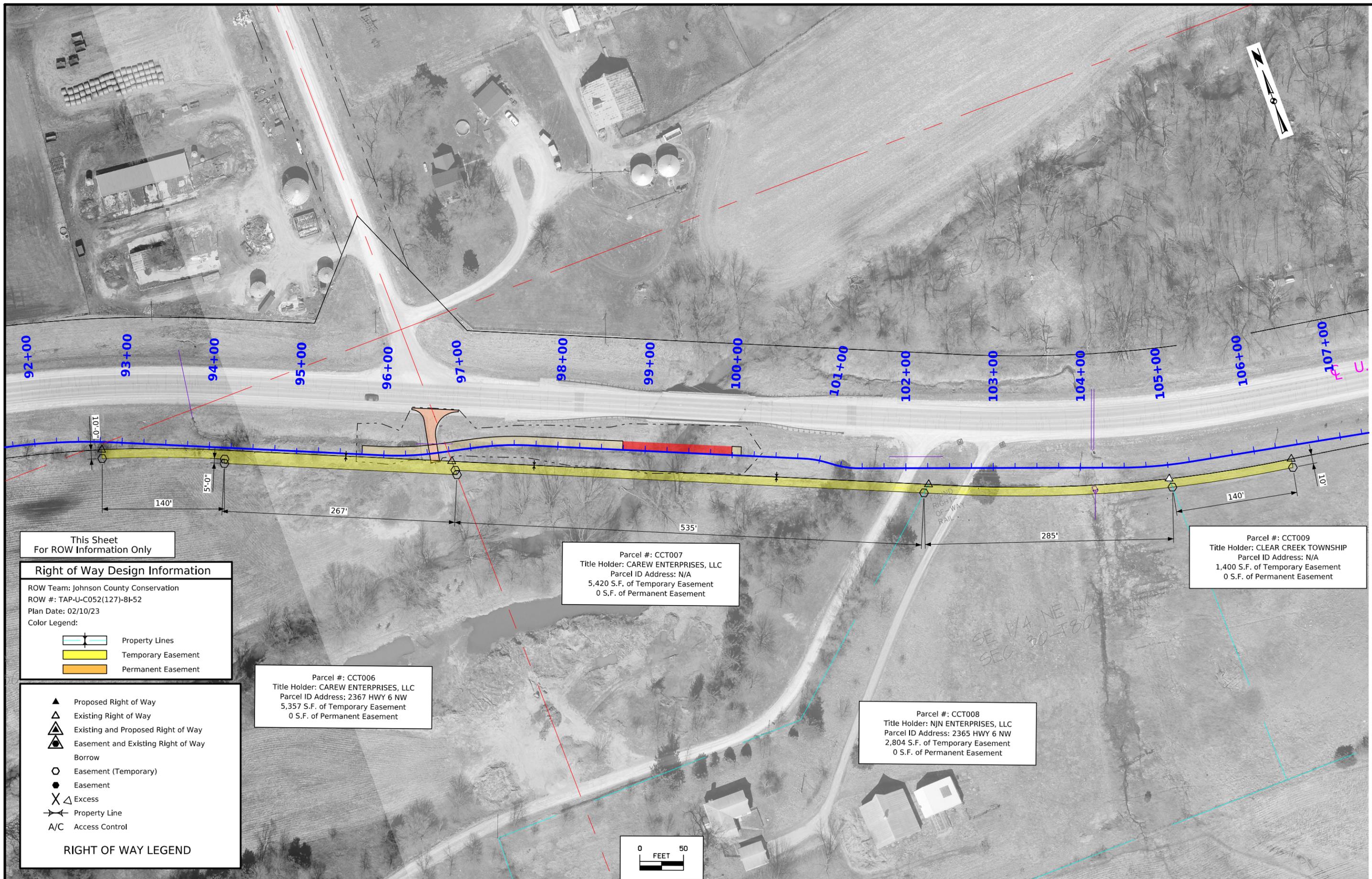
Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1.0		CCT	10+00.00	630996.726	2123492.792															
2.0		CCT							13+18.68	630761.039	2123707.293	13+60.34	630730.23	2123735.332	14+01.24	630710.178	2123771.847			
3.0		CCT							18+54.24	630492.129	2124168.911	18+60.78	630488.978	2124174.649	18+67.33	630485.928	2124180.44			
4.0		CCT							22+33.96	630315.086	2124504.836	22+84.08	630291.73	2124549.184	23+33.87	630277.642	2124597.286			
5.0		CCT							25+19.91	630225.352	2124775.819	25+45.17	630218.252	2124800.063	25+69.76	630221.123	2124825.161			
6.0		CCT							25+74.71	630221.686	2124830.085	25+84.41	630222.788	2124839.715	25+93.99	630221.405	2124849.308			
7.0		CCT							27+56.71	630198.192	2125010.364	27+69.64	630196.349	2125023.157	27+82.31	630190.329	2125034.595			
8.0		CCT							27+92.31	630185.672	2125043.444	28+05.24	630179.652	2125054.882	28+17.91	630177.808	2125067.675			
9.0		CCT							35+41.36	630074.605	2125783.722	36+03.47	630065.744	2125845.205	36+59.14	630016.009	2125882.422			
10.0		CCT							38+66.79	629849.754	2126006.832	39+16.98	629809.571	2126036.901	39+55.25	629822.041	2126085.515			
11.0		CCT							41+36.42	629867.054	2126261.006	41+76.37	629876.978	2126299.695	42+15.27	629871.28	2126339.228			
12.0		CCT							45+64.30	629821.49	2126684.685	45+75.57	629819.881	2126695.847	45+86.70	629821.421	2126707.019			
13.0		CCT							45+96.70	629822.786	2126716.926	46+07.98	629824.326	2126728.098	46+19.11	629822.717	2126739.26			
14.0		CCT							47+53.11	629803.601	2126871.89	47+64.39	629801.992	2126883.052	47+75.52	629797.36	2126893.335			
15.0		CCT							47+85.52	629793.253	2126902.453	47+96.80	629788.621	2126912.735	48+07.93	629787.012	2126923.898			
16.0		CCT							53+22.86	629713.555	2127433.564	53+38.29	629711.353	2127448.836	53+53.71	629710.098	2127464.215			
17.0		CCT							55+42.55	629694.735	2127652.429	55+52.38	629693.935	2127662.229	55+62.21	629692.751	2127671.991			
18.0		CCT							56+83.62	629678.124	2127792.514	56+94.63	629676.798	2127803.437	57+05.58	629673.782	2127814.018			
19.0		CCT							57+15.58	629671.042	2127823.635	57+26.59	629668.026	2127834.217	57+37.54	629666.7	2127845.14			
20.0		CCT							64+77.76	629577.521	2128579.968	65+02.13	629574.585	2128604.159	65+26.35	629576.376	2128628.463			
21.0		CCT							65+36.35	629577.111	2128638.436	65+60.72	629578.902	2128662.739	65+84.93	629575.966	2128686.93			
22.0		CCT							67+26.80	629558.874	2128827.768	67+47.98	629556.323	2128848.786	67+68.96	629548.964	2128868.64			
23.0		CCT							67+75.86	629546.563	2128875.119	67+95.05	629539.896	2128893.105	68+14.09	629537.17	2128912.092			
24.0		CCT							73+10.88	629466.556	2129403.84	73+24.74	629464.586	2129417.559	73+38.46	629465.932	2129431.354			
25.0		CCT							73+43.46	629466.418	2129436.331	73+57.32	629467.764	2129450.126	73+71.05	629465.793	2129463.845			
26.0		CCT							74+40.28	629455.954	2129532.367	74+54.36	629453.953	2129546.304	74+68.30	629448.648	2129559.346			
27.0		CCT							74+73.30	629446.764	2129563.978	74+87.38	629441.46	2129577.02	75+01.32	629439.458	2129590.957			
28.0		CCT							82+10.92	629338.596	2130293.352	82+25.00	629336.595	2130307.289	82+38.94	629338.015	2130321.297			
29.0		CCT							82+43.94	629338.519	2130326.272	82+58.02	629339.939	2130340.28	82+71.96	629337.938	2130354.217			
30.0		CCT							83+39.83	629328.291	2130421.4	83+53.91	629326.289	2130435.337	83+67.85	629320.985	2130448.379			
31.0		CCT							83+72.85	629319.101	2130453.011	83+86.93	629313.796	2130466.053	84+00.87	629311.795	2130479.99			
32.0		CCT							91+14.09	629210.418	2131185.968	92+04.39	629197.584	2131275.346	92+93.69	629162.488	2131358.541			
33.0		CCT							95+97.62	629044.358	2131638.577	96+30.29	629031.659	2131668.682	96+62.78	629024.751	2131700.618			
34.0		CCT							97+02.78	629016.294	2131739.714	97+35.45	629009.387	2131771.65	97+67.94	628996.687	2131801.756			
35.0		CCT							100+83.56	628874.015	2132092.558	100+95.58	628869.342	2132103.636	101+07.49	628862.177	2132113.289			
36.0		CCT							101+17.49	628856.217	2132121.319	101+32.07	628847.528	2132133.027	101+46.44	628842.543	2132146.727			
37.0		CCT							104+44.42	628740.662	2132426.75	104+84.24	628727.05	2132464.162	105+23.88	628719.53	2132503.256			
38.0		CCT							108+99.79	628648.524	2132872.397	109+08.22	628646.932	2132880.677	109+16.62	628646.564	2132889.1			
39.0		CCT							111+19.00	628637.73	2133091.287	111+25.40	628637.451	2133097.682	111+31.79	628636.464	2133104.007			
40.0		CCT							113+33.27	628605.385	2133303.079	113+37.31	628604.762	2133307.064	113+41.34	628603.862	2133310.997			
41.0		CCT							113+51.34	628601.631	2133320.745	113+54.28	628600.975	2133323.613	113+57.22	628600.466	2133326.511			
42.0		CCT							117+06.58	628540.04	2133670.605	117+46.80	628533.083	2133710.223	117+86.85	628519.882	2133748.22			
43.0		CCT							119+28.38	628473.435	2133881.905	119+46.84	628467.375	2133899.348	119+65.29	628460.044	2133916.297			
44.0		CCT							123+68.85	628299.842	2134286.695	124+33.98	628273.988	2134346.471	124+84.31	628208.861	2134346.994			
45.0		CCT	127+97.93	627895.246	2134349.51															
46.0		CCT	129+15.30	627777.893	2134350.997															
47.0		CCT							129+88.50	627704.742	2134353.669	129+93.50	627699.745	2134353.851	129+96.35	627699.927	2134358.848			
48.0		CCT							130+26.35	627701.022	2134388.828	130+31.35	627701.205	2134393.824	130+34.20	627696.208	2134394.007			
49.0		CCT	131+07.29	627623.168	2134396.674															
50.0		CCT	133+40.91	627389.566	2134399.085															
51.0		CCT	137+76.31	626954.225	2134406.541															
52.0		CCT	140+01.24	626729.381	2134412.858															
53.0		CCT	144+90.50	626240.25	2134423.834															
54.0		CCT	148+58.60	625872.203	2134430.238															
55.0		CCT							151+59.70	625571.109	2134432.594	151+64.81	625566.005	2134432.634	151+69.70	625561.544	2134435.115			
56.0		CCT							151+77.55	625554.688	2134438.928	151+82.42	625550.425	2134441.3	151+87.11	625545.548	2134441.441			
57.0		CCT							152+25.52	625507.161	2134442.556	152+29.59	625503.087	2134442.674	152+33.56	625499.292	2134441.189			

ALIGNMENT COORDINATES

Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
58.0		CCT							152+39.51	625493.749	2134439.02	154+26.01	625320.074	2134371.055	153+90.66	625421.541	2134527.538			
59.0		CCT							154+52.08	625454.962	2134579.079	154+71.31	625465.424	2134595.214	154+89.48	625465.424	2134614.443			
60.0		CCT							155+29.95	625465.424	2134654.921	155+63.12	625465.424	2134688.088	155+94.00	625445.604	2134714.681			
61.0		CCT							156+00.81	625441.54	2134720.134	156+54.11	625409.685	2134762.874	156+98.75	625427.41	2134813.146			
62.0		CCT	157+24.80	625436.071	2134837.709															

SPIRAL OR CIRCULAR CURVE DATA

Line No.	Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	T	L	R	E	Remarks
1.0	C1	CCT										18.921	41.658	82.558	250	3.447	
2.0	C2	CCT										1	6.546	13.091	750	0.029	
3.0	C3	CCT										11.449	50.122	99.911	500	2.506	
4.0	C4	CCT										22.85	25.262	49.852	125	2.527	
5.0	C5	CCT										14.727	9.693	19.278	75	0.624	
6.0	C6	CCT										19.556	12.925	25.599	75	1.106	
7.0	C7	CCT										19.556	12.925	25.599	75	1.106	
8.0	C8	CCT										44.991	62.118	117.785	150	12.353	
9.0	C9	CCT										67.578	50.188	88.46	75	15.243	
10.0	C10	CCT										22.588	39.942	78.846	200	3.949	
11.0	C11	CCT										16.048	11.278	22.408	80	0.791	
12.0	C12	CCT										16.048	11.278	22.408	80	0.791	
13.0	C13	CCT										16.048	11.278	22.408	80	0.791	
14.0	C14	CCT										16.048	11.278	22.408	80	0.791	
15.0	C15	CCT										3.535	15.43	30.85	500	0.238	
16.0	C16	CCT										2.253	9.833	19.663	500	0.097	
17.0	C17	CCT										8.988	11.003	21.961	140	0.432	
18.0	C18	CCT										8.988	11.003	21.961	140	0.432	
19.0	C19	CCT										11.135	24.369	48.585	250	1.185	
20.0	C20	CCT										11.135	24.369	48.585	250	1.185	
21.0	C21	CCT										13.418	21.173	42.153	180	1.241	
22.0	C22	CCT										12.166	19.182	38.219	180	1.019	
23.0	C23	CCT										13.745	13.86	27.588	115	0.832	
24.0	C24	CCT										13.745	13.86	27.588	115	0.832	
25.0	C25	CCT										13.961	14.08	28.021	115	0.859	
26.0	C26	CCT										13.961	14.08	28.021	115	0.859	
27.0	C27	CCT										13.961	14.08	28.021	115	0.859	
28.0	C28	CCT										13.961	14.08	28.021	115	0.859	
29.0	C29	CCT										13.961	14.08	28.021	115	0.859	
30.0	C30	CCT										13.961	14.08	28.021	115	0.859	
31.0	C31	CCT										14.7	90.295	179.598	700	5.8	
32.0	C32	CCT										10.667	32.675	65.16	350	1.522	
33.0	C33	CCT										10.667	32.675	65.16	350	1.522	
34.0	C34	CCT										13.711	12.022	23.93	100	0.72	
35.0	C35	CCT										16.59	14.579	28.955	100	1.057	
36.0	C36	CCT										9.105	39.811	79.454	500	1.582	
37.0	C37	CCT										8.387	8.432	16.833	115	0.309	
38.0	C38	CCT										6.372	6.401	12.789	115	0.178	
39.0	C39	CCT										4.018	4.034	8.065	115	0.071	
40.0	C40	CCT										2.931	2.942	5.884	115	0.038	
41.0	C41	CCT										9.199	40.224	80.276	500	1.615	
42.0	C42	CCT										4.23	18.466	36.916	500	0.341	
43.0	C43	CCT										66.151	65.128	115.455	100	19.339	
44.0	C44	CCT										90	5	7.854	5	2.071	
45.0	C45	CCT										90	5	7.854	5	2.071	
46.0	C46	CCT										28.633	5.104	9.995	20	0.641	
47.0	C47	CCT										27.419	4.879	9.571	20	0.586	
48.0	C48	CCT										23.035	4.075	8.041	20	0.411	
49.0	C49	CCT										144.332	186.5	151.145	60	135.914	
50.0	C50	CCT										32.96	19.229	37.392	65	2.785	
51.0	C51	CCT										36.698	33.167	64.05	100	5.357	
52.0	C52	CCT										56.12	53.306	97.948	100	13.32	



This Sheet
For ROW Information Only

Right of Way Design Information

ROW Team: Johnson County Conservation
 ROW #: TAP-U-C052(127)-8F-52
 Plan Date: 02/10/23
 Color Legend:

- Property Lines
- Temporary Easement
- Permanent Easement

- Proposed Right of Way
 - Existing Right of Way
 - Existing and Proposed Right of Way
 - Easement and Existing Right of Way
 - Borrow
 - Easement (Temporary)
 - Easement
 - Excess
 - Property Line
 - A/C Access Control
- RIGHT OF WAY LEGEND**

Parcel #: CCT007
 Title Holder: CAREW ENTERPRISES, LLC
 Parcel ID Address: N/A
 5,420 S.F. of Temporary Easement
 0 S.F. of Permanent Easement

Parcel #: CCT006
 Title Holder: CAREW ENTERPRISES, LLC
 Parcel ID Address: 2367 HWY 6 NW
 5,357 S.F. of Temporary Easement
 0 S.F. of Permanent Easement

Parcel #: CCT008
 Title Holder: NJN ENTERPRISES, LLC
 Parcel ID Address: 2365 HWY 6 NW
 2,804 S.F. of Temporary Easement
 0 S.F. of Permanent Easement

Parcel #: CCT009
 Title Holder: CLEAR CREEK TOWNSHIP
 Parcel ID Address: N/A
 1,400 S.F. of Temporary Easement
 0 S.F. of Permanent Easement

TRAFFIC CONTROL PLAN

1. Hwy 6 will remain open for the duration of the project. Intermittent lane closures using flaggers (SRP TC-213) may be necessary during construction of bridges. A bid quantity has been estimated to establish a unit price.
2. Driveway access will be maintained through the entire project.
3. Use SRP TC-1 for work not affecting traffic.
4. Use SRP TC-202 for work within 15-ft of the traveled way.
5. Place Easement Limit Fence along temporary easement or existing ROW line within the limits of construction.

