

IH 30 Weigh Station

CONCEPTUAL DESIGN  
ESTIMATE

*PRELIM  
EST*

		TOTAL
ROADWAY	55.7%	\$2,731,691.68
DRAINAGE	2.7%	\$132,905.50
PAVEMENT MARKINGS	1.5%	\$73,675.89
SWPPP/TREES	1.4%	\$66,242.91
TCP	4.2%	\$204,180.10
ILLUMINATION	6.0%	\$293,946.75
STRUCTURAL	28.6%	\$1,401,650.00
MOBILIZATION	10.0%	\$490,429.28
CONTINGENCY	10.0%	\$539,472.21
TOTALS		\$5,934,194.32

**Preliminary Conceptual Cost  
IH-30 Weigh Station**

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Prepared by: Pape-Dawson Engineers  
7/23/2019  
Concept

Item No	Description	Unit	Quantity	Unit Cost	Total Cost
<b>ROADWAY</b>					
0100-6002	PREPARING ROW	STA	67		
0104-6011	REMOVING CONC (MEDIANS)	SY	8	\$1,000.00	\$67,000
0104-6021	REMOVING CONC (CURB)	LF	1,202	\$30.62	\$245
0105-6037	REMOVING STAB BASE AND ASPH PAV(0"-16")	SY	15,000	\$4.54	\$5,457
0105-6073	REMOV STAB BASE AND ASPH PAV (22")	SY		\$5.43	\$81,450
0110-6001	EXCAVATION (ROADWAY)	CY	1,000.0	\$15.83	\$0
0132-6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	15,000.0	\$25.00	\$25,000
0247-6053	FL BS (CMP IN PLC)(TYD GR1-2)(FNAL POS)	CY	2,040.0	\$15.00	\$225,000
0251-6033	REWORK BS MTL (TY C) (6") (ORD COMP)	CY	2,040.0	\$30.34	\$61,894
0275-6001	CEMENT	SY	3,583	\$0.75	\$2,687
0275-6002	CEMENT TREAT (EXIST MATL) (6")	TON	100	\$138.37	\$13,837
0275-6003	CEMENT TREAT (NEW BASE) (6")	SY	10,000	\$1.41	\$14,100
0310-6027	PRIME COAT(MC-30 OR AE-P)	SY	10,000	\$2.58	\$25,800
0316-6068	AGGR(TY-A GR-3 SAC-A)	GAL	1,000	\$3.12	\$3,120
0316-6413	ASPH(AC-15P, HFRS-2P OR CRS-2P)	CY	72.0	\$126.00	\$9,072
0340-6011	D-GR HMA(SQ) TY-B PG64-22	GAL	5,000	\$2.48	\$12,400
0340-6034	D-GR HMA(SQ) TY-C PG64-22	TON	673	\$80.00	\$53,840
0340-6048	D-GR HMA(SQ) TY-C SAC-B PG70-22	TON	2,019	\$80.00	\$161,520
0354-6045	PLANE ASPH CONC PAV (2")	TON	1,278	\$85.00	\$108,630
0360-6014	CONC PVMT (CONT REINF - CRCP) (11.5")	SY	7,779	\$0.96	\$7,468
0529-6005	CONC CURB (MONO) (TY II)	SY	23,000	\$70.00	\$1,610,000
0531-6002	CONC SIDEWALKS (5")	LF	2,969	\$12.31	\$36,548
0533-6001	RUMBLE STRIPS (SHOULDER)	SY	557	\$45.00	\$25,065
0536-6002	CONC MEDIAN	LF	400	\$0.20	\$80
0542-6001	REMOVE METAL BEAM GUARD FENCE	SY	450	\$45.50	\$20,475
0550-6001	CHAIN LINK FENCE (INSTALL) (6")	LF	157	\$1.50	\$236
0618-6053	CONDT (PVC) (SCH 80) (3")	LF	400	\$25.00	\$10,000
0618-6054	CONDT (PVC) (SCH 80) (3") (BORE)	LF	7,187	\$15.30	\$109,961
0624-6002	GROUND BOX TY A (122311)W/APRON	LF	254	\$34.24	\$8,697
XXXX-6001	WIDE FLANGE PAVEMENT TERMINALS	EA	20	\$818.00	\$16,360
XXXX-6001	FIXED BOLLARD	LF	55	\$250.00	\$13,750
		EA	2	\$1,000.00	\$2,000
				<b>SUBTOTAL</b>	<b>\$2,731,692</b>
<b>DRAINAGE</b>					
0462-6013	CONC BOX CULV (6 FT X 6 FT)	LF	200	\$500.00	\$100,000
0464-6005	RC PIPE (CL III)(24 IN)	LF	250	\$64.01	\$16,003
0465-6233	INLET (COMP) (TY SIDEWALK BRIDGE)	EA	1	\$8,000.00	\$8,000
0467-6005	SET (TY I) (24 IN) (3: 1) (C)	EA	1	\$2,475.00	\$2,475
0529-6020	CONC CURB & GUTTER (ARMOR CURB)	LF	40	\$160.70	\$6,428
				<b>SUBTOTAL</b>	<b>\$132,906</b>
<b>PAVEMENT MARKINGS</b>					
0636-6002	ALUMINUM SIGNS (TY G)	SF	242	\$21.50	\$5,203
0644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	9	\$410.00	\$3,690
0644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	4	\$550.00	\$2,200
0644-6037	IN SM RD SN SUP&AM TYS80(1)SA(U-WC)	EA	1	\$900.00	\$900
0644-6076	REMOVE SM RD SN SUP&AM	EA	8	\$85.00	\$680
0647-6001	INSTALL LRSS (STRUCT STEEL)	LB	6,639	\$4.13	\$27,419
0647-6003	REMOVE LRSA	EA	3	\$850.00	\$2,550
0666-6009	REFL PAV MRK TY I (W)4"(LNDP)(100MIL)	LF	384	\$1.10	\$422
0666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	3,192	\$0.75	\$2,394
0666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	300	\$2.70	\$810
0666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	189	\$5.50	\$1,040
0666-6075	REFL PAV MRK TY I (W)(NUMBER)(100MIL)	EA	4	\$158.00	\$632
0666-6090	REF PAV MRK TY I (W)(MED NOSE)(100MIL)	EA	6	\$450.00	\$2,700
0666-6126	REFL PAV MRK TY I (Y)4"(SLD)(100MIL)	LF	2,091	\$0.31	\$648
0666-6159	RE PV MRK TY I (BLACK)4"(SHADOW)(100MIL)	LF	10	\$0.80	\$8
0666-6218	REFL PAV MRK TY II (BLACK)4"(SHADOW)	LF	6	\$0.55	\$3
0666-6224	PAVEMENT SEALER 4"	LF	11,224	\$0.25	\$2,806
0666-6226	PAVEMENT SEALER 8"	LF	3,192	\$0.25	\$798
0666-6228	PAVEMENT SEALER 12"	LF	300	\$0.25	\$75
0666-6230	PAVEMENT SEALER 24"	LF	189	\$1.00	\$189
0666-6248	PAVEMENT SEALER (NUMBER)	EA	4	\$5.00	\$20
0666-6283	REF PROF PAV MRK TY I(W)4"(SLD)(090MIL)	LF	2,416	\$0.40	\$966
0666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF	190	\$0.40	\$76
0666-6303	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL)	LF	7,361	\$0.25	\$1,840
0672-6009	REFL PAV MRKR TY II-A-A	EA	8	\$2.71	\$22
0672-6010	REFL PAV MRKR TY II-C-R	EA	190	\$3.05	\$580
0677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	6,466	\$0.39	\$2,522
0678-6001	PAV SURF PREP FOR MRK (4")	LF	10,090	\$0.10	\$1,009
0678-6004	PAV SURF PREP FOR MRK (8")	LF	974	\$0.16	\$156
0678-6006	PAV SURF PREP FOR MRK (12")	LF	300	\$0.30	\$90
0678-6008	PAV SURF PREP FOR MRK (24")	LF	600	\$0.65	\$390
0678-6015	PAV SURF PREP FOR MRK (NUMBER)	EA	4	\$7.50	\$30

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Item No	Description	Unit	Quantity	Unit Cost	Total Cost
0678-6024	PAV SURF PREP FOR MRK (MED NOSE)	EA	6	\$30.00	\$180
0685-6003	REMOVE RDSB FLASH BEACON ASSEMBLY	EA	1	\$500.00	\$500
0685-6004	INSTL RDSB FLSH BCN ASSM (SOLAR PWRD)	EA	2	\$5,000.00	\$10,000
6056-6001	PREFORMED IN-LANE (TRANS) RUMBLE STRIP	LF	40	\$3.20	\$128
				SUBTOTAL	\$73,676
	<b>SW3P</b>				
0160-6003	FURNISHING AND PLACING TOPSOIL (4")	SY	20,037	\$1.66	\$33,261
0164-6013	STRAW/HAY MLCH SEED (PERM)(RURAL)(SANDY)	SY	20,037	\$0.30	\$6,011
0168-6001	VEGETATIVE WATERING	MG	312.59	\$17.67	\$5,523
0506-6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	263	\$22.36	\$5,881
0506-6011	ROCK FILTER DAMS (REMOVE)	LF	263	\$6.93	\$1,823
0506-6020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	112	\$14.92	\$1,671
0506-6024	CONSTRUCTION EXITS (REMOVE)	SY	112	\$6.23	\$698
0506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	5,089	\$1.79	\$9,109
0506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	5,089	\$0.33	\$1,679
0506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	117	\$3.66	\$428
0506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	117	\$1.35	\$158
				SUBTOTAL	\$66,243
	<b>TCP</b>				
0502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	12	\$10,000.00	\$120,000
0512-6001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	2,600	\$14.46	\$37,596
0512-6025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	2,600	\$4.57	\$11,882
0512-6049	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	2,600	\$5.09	\$13,234
0545-6001	CRASH CUSH ATTEN (INSTL)	EA	1	\$9,752.78	\$9,753
0545-6003	CRASH CUSH ATTEN (MOVE & RESET)	EA	1	\$1,161.00	\$1,161
0545-6005	CRASH CUSH ATTEN (REMOVE)	EA	1	\$453.37	\$453
0672-6011	TRAFFIC BUTTON TY I-A	EA	12	\$2.50	\$30
0672-6016	TRAFFIC BUTTON TY W	EA	33	\$2.15	\$71
6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	1	\$10,000.00	\$10,000
				SUBTOTAL	\$204,180
	<b>ILLUMINATION</b>				
0416-6029	DRILL SHAFT (RDWY ILL POLE) (30 IN)	LF	280	\$208.35	\$58,138
0610-6009	REMOVE RD IL ASM (TRANS-BASE)	EA	19	\$250.00	\$4,750
0610-6288	IN RD IL (TY SA) 50T-10 (400W EQ) LED	EA	26	\$3,530.00	\$91,780
0618-6023	CONDT (PVC) (SCH 40) (2")	LF	9,518	\$9.10	\$86,609
0618-6024	CONDT (PVC) (SCH 40) (2") (BORE)	LF	195	\$18.75	\$3,656
0620-6009	ELEC CONDR (NO.6) BARE	LF	9,518	\$1.22	\$11,611
0620-6010	ELEC CONDR (NO.6) INSULATED	LF	9,090	\$1.45	\$13,181
0620-6012	ELEC CONDR (NO.4) INSULATED	LF	9,960	\$1.79	\$17,828
0624-6002	GROUND BOX TY A (122311)W/APRON	EA	5	\$900.00	\$4,500
0628-6054	ELC SRV TY A 240/480 060 (SS)SS(E)SP(O)	EA	1	\$5,860.00	\$5,860
				SUBTOTAL	\$293,947
	<b>STRUCTURAL</b>				
0416-6003	DRILL SHAFT (30 IN)	LF	540	\$175.00	\$94,500
0420-6037	CL C CONC (COLUMN)	CY	16.2	\$1,000.00	\$16,200
0420-6128	CL K CONC (MISC)	CY	251.0	\$1,000.00	\$250,950
0442-6007	STR STL (MISC - NON BRIDGE)	LB	9000	\$10.00	\$90,000
XXXX-6001	PRE-ENGINEERED METAL BUILDING/CANOPY	LS	1	\$750,000.00	\$750,000
XXXX-XXXX	OFFICE BUILDING	LS	1	\$200,000.00	\$200,000
				SUBTOTAL	\$1,401,650

Subtotal =	\$4,904,293
Mobilization 10%	\$490,429
10% Contingency	\$539,472
<b>Total Cost =</b>	<b>\$5,934,194</b>