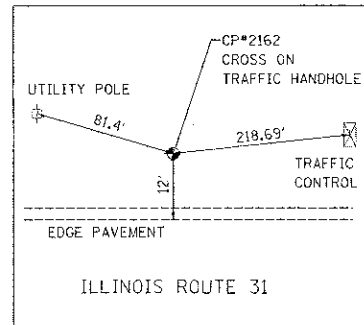
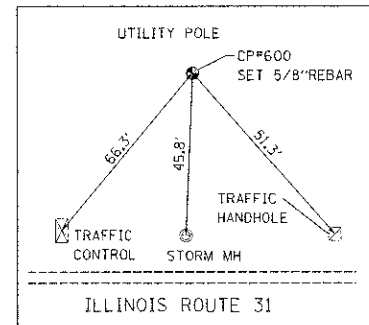
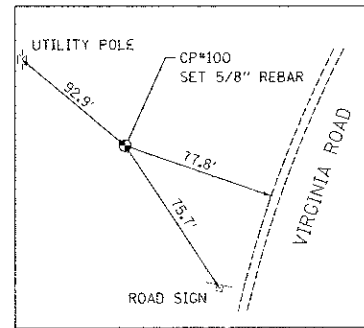
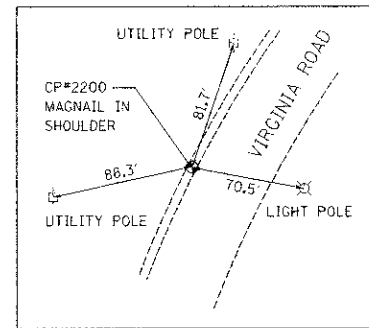


TIE DETAILS N.T.S.



BENCHMARKS

BM#1
NGS MONUMENT AT THE SOUTHEAST CORNER OF IL ROUTE 31 & KLASSEN ROAD.
NORTH 2011824.001
EAST 997031.854
ELEVATION = 894.66

BM#2
CUT SQUARE ON WESTERLY CORNER OF TRAFFIC SIGNAL CONTROL BOX FOUNDATION AT THE SOUTHWEST CORNER OF IL ROUTE 31 & VIRGINIA ROAD.
NORTH 2012401.028
EAST 996877.752
ELEVATION = 886.54

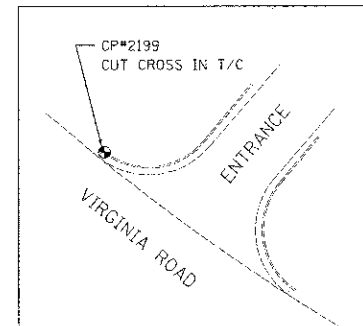
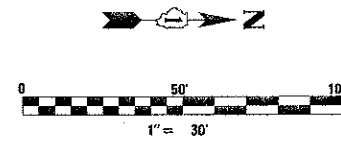
CONTROL POINT #2199
CUT CROSS ON THE WEST END OF THE CURB RETURN ON THE WEST SIDE OF THE FIRST ENTRANCE WEST OF IL ROUTE 31 ON THE NORTH SIDE OF EXISTING VIRGINIA ROAD
NORTH 2012943.963
EAST 996243.618
ELEVATION = 879.09

CURVE 1
PI STA. = 11+08.68
 $\Delta = 58^\circ 44' 46''$ (LT)
D = 88' 08' 50"
R = 65.00'
T = 36.59'
L = 66.65'
E = 9.59'
P.C. STA = 10+72.10
P.T. STA = 11+38.74

CURVE 2
PI STA. = 12+19.22
 $\Delta = 94^\circ 37' 41''$ (LT)
D = 68' 08' 50"
R = 65.00'
T = 70.47'
L = 107.35'
E = 30.87'
P.R.C. STA = 11+48.74
P.T. STA = 12+56.09

CURVE 3
PI STA. = 12+86.90
 $\Delta = 50^\circ 42' 40''$ (RT)
D = 88' 08' 50"
R = 65.00'
T = 30.80'
L = 57.53'
E = 6.33'
P.R.C. STA = 12+56.09
P.T. STA = 13+13.62

CURVE 4
PI STA. = 13+53.33
 $\Delta = 5^\circ 42' 26''$ (LT)
D = 7' 11' 36"
R = 796.50'
T = 39.70'
L = 79.34'
E = 0.99'
P.R.C. STA = 13+13.62
P.T. STA = 13+92.96



BEARINGS AND COORDINATES ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83. COORDINATES ARE ON THE GROUND. HORIZONTAL CONTROL BASED ON HOLDING PUBLISHED VALUES FOR NGS CONTROL MONUMENT WITH P.I.D. AJ2855 AT THE SOUTHEAST CORNER OF IL ROUTE 31 AND KLASSEN ROAD, BENCHMARKS FROM PROPOSED HIGHWAY PLANS PREPARED BY CIVILTECH WITH CONTRACT NO. 63553.

CONTROL POINT AND BENCHMARK DATA AS OF OCTOBER 2011 PRIOR TO THE CONSTRUCTION OF CONTRACT NO. 63553.

PT STA 11+38.74
N 2012651.06
E 996453.29
PC STA 11+48.74
N 2012643.44
E 996459.77
CONTROL POINT #100
SET 5/8" REBAR
STA. 11+99.25, 41.48' L
NORTH 2012662.08
EAST 996507.74
ELEVATION = 882.51

PI STA 11+08.68
N 2012678.93
E 996429.59
PC STA 10+72.10
N 2012713.65
E 996441.12

CONTROL POINT #2200
MAGNAIL IN PAVED SHOULDER
STA. 9+96.09, 184.04' R
NORTH 2012843.79
EAST 996290.42
ELEVATION = 880.88

CONTROL POINT #2199
CUT CROSS IN WEST END
OF CURB RETURN ON WEST
SIDE OF ENTRANCE
STA. 9+15.76, 260.02' R

PI STA. 10+00.00
N 2012782.07
E 996463.84

PI STA 12+19.22
N 2012589.75
E 996505.42

PRC STA 12+56.09
N 2012639.59
E 996555.25

PI STA 12+86.90
N 2012661.37
E 996577.03

PRC STA 13+13.62
N 2012658.31
E 996607.68

PI STA 13+53.33
N 2012654.36
E 996647.19

PT STA 13+92.96
N 2012654.36
E 996686.89

PI STA. 56+46.05
N 2012654.36
E 996776.31

CONTROL POINT #600
SET 5/8" REBAR
STA. 54+46.05, 60.69' R
NORTH 2012454.72
EAST 996838.16
ELEVATION = 884.90

BENCHMARK #2
STA. 53+92.13, 99.97' R

CONTROL POINT #2162
FOUND CROSS ON HANDHOLE
STA. 51+20.24, 37.72' R
NORTH 2012184.61
EAST 996893.90
ELEVATION = 888.49

PI STA. 50+00.00
N 2012068.46
E 996942.77

PI STA. 16+47.58
N 2012654.36
E 996941.51

ILLINOIS ROUTE 31

VIRGINIA ROAD AT ILLINOIS 31 PARK AND RIDE
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 30' SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
N/A	09-00370-00-PK	MCHENRY	17
	C-91-072-10	CONTRACT NO.	63733
		ILLINOIS FED. AID PROJECT	CW-90034841

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGNED	TVW	REVISED	-
DRAWN	KKP	REVISED	-
CHECKED	JRL	REVISED	-
DATE	6/1/12	REVISED	-

MCHENRY COUNTY DIVISION
OF TRANSPORTATION
16111 NELSON ROAD
WOODSTOCK, IL 60098

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Super Grove, Illinois 60554
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