

ASSOCIATE I.D.T. FIELD ENGINEER KEVIN STALLWORTH, P.E., 647-705-4141
 THE DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT, FOR WHICH IT IS PREPARED. RETURN TO THE ENGINEER OF RECORD FOR ANY CHANGES OR REVISIONS. CONTRACT NO. 06-P4001-00-BR, DATE: OCT 02, 2009 11:28am BY: CONVERSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-P4001-00-BR	MCHENRY	64	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63333

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
GENERAL NOTES, SUMMARY OF QUANTITIES AND HIGHWAY STANDARDS	2
TYPICAL SECTIONS	3
ALIGNMENT DATA SHEETS	4-8
OVERALL EXISTING CONDITIONS	9
EXISTING CONDITIONS AND DEMOLITION PLAN	10-13
OVERALL TRAIL ALIGNMENT PLAN	14
TRAIL ALIGNMENT PLAN AND PROFILE	15-25
TRAIL CROSS SECTIONS	26-48
SIGNAGE AND STRIPING PLAN	49-53
EROSION CONTROL AND GRADING PLAN	54-58
DETAILS	59-63
PHASING PLAN	64

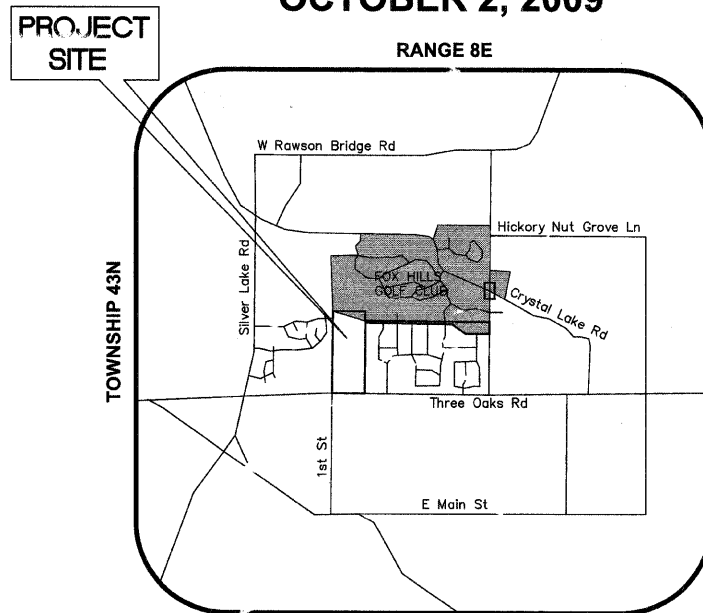
CARY COMMUNITY TRAIL
THREE OAKS ROAD AND SOUTH RAWSON BRIDGE ROAD
CARY PARK DISTRICT
McHENRY COUNTY

SECTION NO. 06-P4001-00-BR
PROJECT NO. ARA-00D1(710)
JOB NUMBER C-91-046-07
COMMUNITY TRAIL
OCTOBER 2, 2009



LEGEND

EXISTING	PROPOSED
PROPERTY LINE	PROPOSED EASEMENT
EASEMENT LINE	EXISTING GROUND PROFILE
EXISTING CONTOUR	PROPOSED TRAIL PROFILE
EXISTING SPOT ELEVATION	POINT OF VERTICAL INTERSECTION
EXISTING FIRE HYDRANT	BEGINNING OF VERTICAL CURVE STATION/ELEVATION
EXISTING MANHOLE	END OF VERTICAL CURVE STATION/ELEVATION
EXISTING CATCH BASIN	PROPOSED BIKE TRAIL
EXISTING GAS LINE	PROPOSED SIDEWALK
EXISTING POWER LINE	PROPOSED 2' AGGREGATE SHOULDER
EXISTING UTILITY POLE	GROUND SLOPE
EXISTING TREE	SILT FENCE
EXISTING TREE LINE	PROPOSED SIGN
EXISTING FENCE	PROPOSED CONTOUR
EXISTING LIGHT POLE	PROPOSED SPOT ELEVATION
EXISTING SIGN	PROPOSED PIPE OUTLET
	PROPOSED PERFORATED UNDERDRAIN
	PROPOSED STORM PIPE
	PROPOSED STORM CLEANOUT
	PROPOSED INLET PROTECTION
	PROPOSED RIP RAP

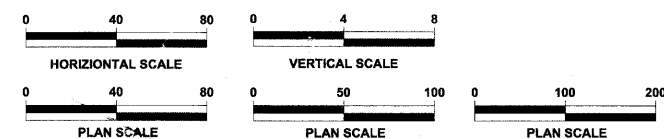


ALGONQUIN TOWNSHIP **3RD PM**
LOCATION MAP
 NOT TO SCALE

GROSS LENGTH OF PROJECT = 9,557 LINEAL FEET (1.81 MILES)
NET LENGTH OF PROJECT = 9,557 LINEAL FEET (1.81 MILES)

PEDESTRIAN TRAFFIC DATA

POSTED: 20 MPH
DESIGN: 20 MPH
ADT: 100 PEDESTRIAN USERS PER DAY
FUNCTIONAL CLASSIFICATION: SHARED USE PATH



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES.

Kimley-Horn and Associates, Inc.
©2009 Kimley-Horn & Associates, Inc. 205 West Wacker Drive, Suite 2125 Chicago, Illinois 60606 Tel. No. (312) 726 9445 Fax No. (312) 726 9449



Date of Signature: 10-02-09
 Date of Expiration: 11-30-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: J. Raica 10/02/09
DAVID J. RAICA
 DIRECTOR OF PLANNING AND DEVELOPMENT, CARY PARK DISTRICT

PASSED: October 27 20 09
Christopher Holt
 DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: OCTOBER 29, 20 09
Diane M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

DATUM CONVERSION FOR CARY COMMUNITY BIKE TRAIL TOPOGRAPHIC SURVEY

THE DATUM USED FOR THE CARY COMMUNITY BIKE TRAIL TOPOGRAPHIC SURVEY PERFORMED BY HAEGER ENGINEERING, LLC, DATED FEB. 2, 2008 (THE TOPO) WAS BASED ON MH 46 ON PAGE 29 OF 38 ON THE MANHART CONSULTING LTD. RECORD DRAWINGS FOR FOXFORD HILLS SUBDIVISION - PHASE 1 DATED MARCH 8, 2007. THIS DATUM WAS REQUESTED TO BE USED IN ORDER FOR THE TOPO TO STAY CONSISTENT WITH PROJECTS DONE IN THE AREA (FOXFORD HILLS). THE PUBLISHED RECORD ELEVATION FOR MH 46 WAS 861.45 FEET. THIS ELEVATION WAS USED TO ESTABLISH THE ELEVATIONS REPORTED BY THE TOPO. IT IS UNKNOWN TO HAEGER ENGINEERING, LLC AS TO THE SOURCE BENCHMARK OR PUBLISHED DATUM THAT WAS ORIGINALLY USED FOR THE RECORD DRAWINGS OF FOXFORD HILLS SUBDIVISION PROJECT. DUE TO THE FACT HAEGER ENGINEERING, LLC WAS NEVER SUPPLIED THIS INFORMATION, HOWEVER, HAEGER ENGINEERING, LLC DID CHECK INTO MH 46 ELEVATION WITH ITS RTK GPS UNIT THAT IS BASED ON NAD83 COMPANY'S RTK CORES REFERENCE NETWORK USING NAVD 83 (GEOID 03) AS ITS REFERENCE DATUM. HAEGER ENGINEERING, LLC FOUND MH 46 ELEVATION (861.45) TO BE 0.11' HIGHER THAN THAT MEASURED WITH THE GPS EQUIPMENT (861.34) USING NAVD 83 (GEOID 03) AS THE REFERENCE DATUM. BASED ON THE COMPARISON OF THE TOPO TO NAVD 29 ELEVATION FOR MH 46 USING NAD 83 VERTICAL CONVERSION WOULD BE 861.52 (0.07' HIGHER THAN PUBLISHED MH 46 ELEVATION). THEREFORE DUE TO VERTICAL ACCURACY OF THE GPS RTK MEASUREMENT (PLUS OR MINUS 0.05') IT IS UNKNOWN TO HAEGER ENGINEERING, LLC AS TO THE TRUE PUBLISHED DATUM USED FOR THE TOPO, WITH OUT BEING SUPPLIED THE SOURCE BENCHMARK OR CONTRIE INFORMATION THE FOXFORD HILLS SUBDIVISION WAS BUILT ON.

BASED ON HAEGER ENGINEERING, LLC. GPS RTK MEASUREMENT OF MH 46 THE DATUM CONVERSION FOR THE TOPO IS AS FOLLOWS:
 NAVD 83 (GEOID 03)-LOWER TOPO 0.11' (WITH AN ACCURACY OF PLUS OR MINUS 0.05')
 NAVD 29-RAISE TOPO 0.07' (WITH AN ACCURACY OF PLUS OR MINUS 0.05')

J.U.L.I.E
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
8-1-1 OR 1-800-892-0123

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS