

11-9-12 LETTING ITEM 057

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	1
FED. ROAD DIST. NO 1		ILLINOIS	CONTRACT NO. 60P65	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**DESIGN DESIGNATION:**

**SPEED LIMIT**  
IL ROUTE 31: 35 MPH  
MOOSEHEART RD: 40 MPH

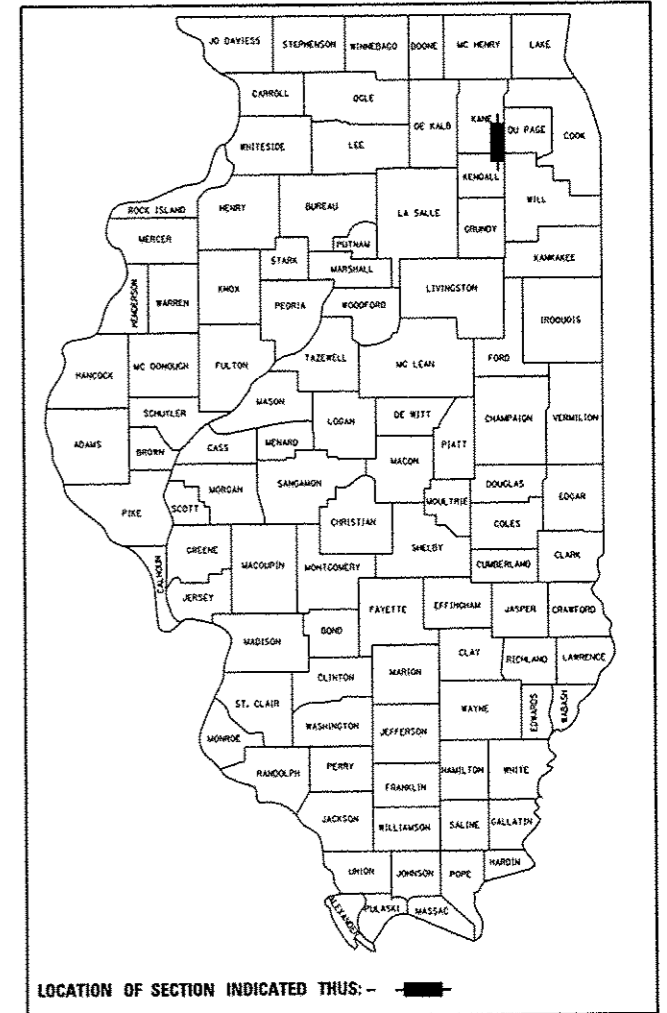
**ADT (YEAR)**  
IL ROUTE 31: 12,600 (2009)  
MOOSEHEART RD: 6,100 (2010)

PROJECT LOCATED IN  
UNINCORPORATED BATAVIA TOWNSHIP

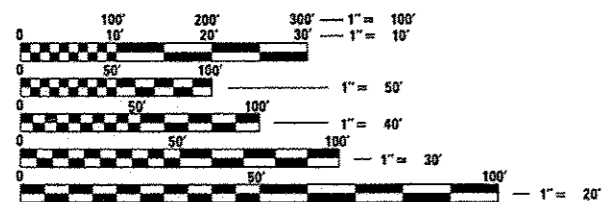
**PROPOSED  
HIGHWAY PLANS**

FAU 3887 (ILLINOIS ROUTE 31)  
AT MOOSEHEART ROAD  
SECTION AR-N-2  
CHANNELIZATION AND TRAFFIC SIGNAL INSTALLATION  
PROJECT: CMM-M-3887(007)  
KANE COUNTY  
C-91-595-11

D-91-595-11



**HRGreen**  
420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.385.1778 | Toll Free: 800.728.7905 | Fax: 815.385.1781 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

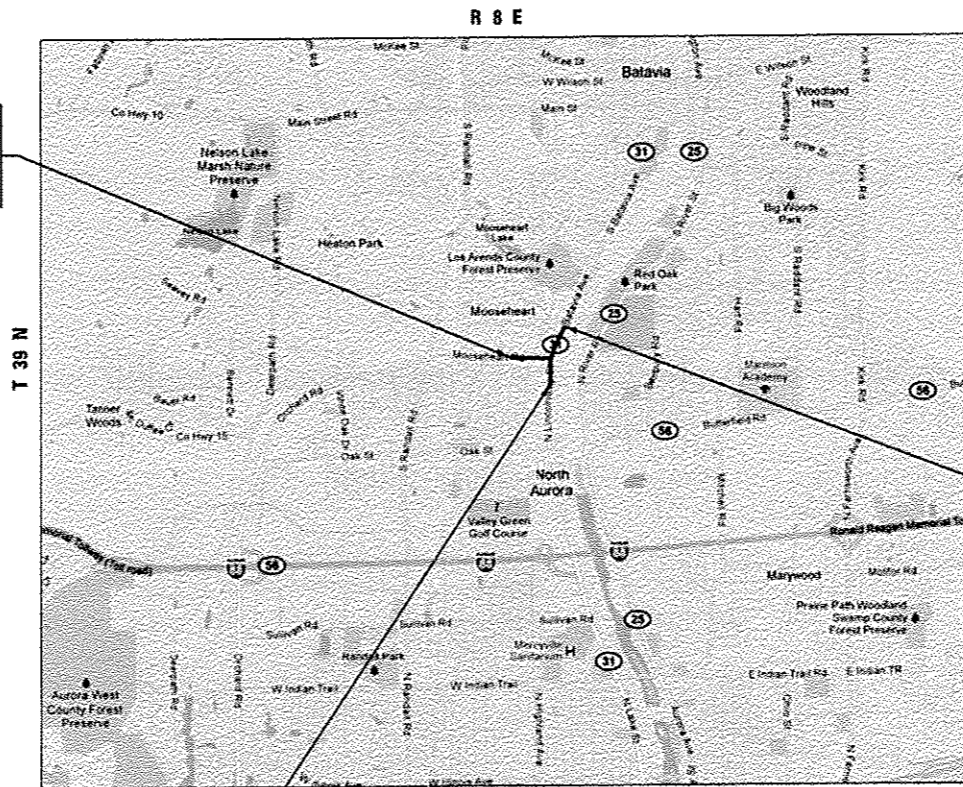


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

(HRGREEN) PROJECT ENGINEER: CHRISTOPHER HARTKE (815) 385-1778  
(IDOT) PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60P65



PROJECT BEGINS  
MOOSEHEART RD.  
STA. 54 + 20.00

PROJECT ENDS  
ILLINOIS ROUTE 31  
STA. 34 + 81.54

PROJECT BEGINS  
ILLINOIS ROUTE 31  
STA. 23 + 46.39

GROSS LENGTH OF PROJECT = 2,317 FT. = 0.44 MILE  
NET LENGTH OF PROJECT = 2,317 FT. = 0.44 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED JUNE 22, 2012

*John F. Fittman*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 5, 2012  
*John D. Bascampelli P.E.*  
acting ENGINEER OF DESIGN AND ENVIRONMENT

October 5, 2012  
*William R. Freeman*  
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

*Christopher M. Hartke*

EXPIRES: 11-30-2013

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**LIST OF STATE STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
524301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
524311-03	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" THRU 54" PIPE)
602001-02	CATCH BASIN TYPE A
602401-03	MANHOLE TYPE A
602406-05	MANHOLE TYPE A 6' DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAMES AND LIDS TYPE 1
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIUM
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN MARKERS)
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877002-02	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877011-05	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

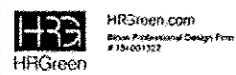
**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND CONDITIONS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND KANE COUNTY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES (40mm) WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKING ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 741-9857 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- LOCATIONS OF PAVEMENT PATCHING WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT LIMITS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
- THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.25 GALLONS / SQ YD.
- DRIVEWAY OFFSETS ARE TO BE CONSTRUCTED TO THE R.O.W. OR EASEMENT UNLESS OTHERWISE NOTED.
- REMOVAL OF EXISTING COMBINATION CURB AND GUTTER, REGARDLESS OF CURB AND GUTTER TYPE, SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL".
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT MIX ASPHALT MIXTURES ARE TO BE PLACED.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND AFTER COMPLETION OF ROADWAY CONSTRUCTIONS, TO SET THEM IN THEIR PERMANENT LOCATIONS PER UNITED STATES POST OFFICE REQUIREMENTS. THIS WORK SHALL BE DONE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST WILL BE CONSIDERED INCLUDED IN THE CONTRACT.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS OR EXISTING STREAMS, CREEKS, WETLANDS OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE ENGINEER PRIOR TO USE OF THE WATER.

**COMMITMENTS**

NONE

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 7/2/2012 11:45:16 AM  
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 PLOT NUMBER: 1  
 PEN TABLE: Standard.ctb



USER NAME: s.pernal	DESIGNED: C. HARTKE	REVISED:
	DRAWN: S. PERNAL	REVISED:
PLOT SCALE:	CHECKED: T. HAMILTON	REVISED:
PLOT DATE: 7/2/2012	DATE: 7/2/12	REVISED:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, LIST OF STATE STANDARDS, AND GENERAL NOTES

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	2
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	

GENERAL NOTES (CONTINUED)

**STORM SEWERS, WATER MAINS, AND UTILITIES**

1. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
2. STORM SEWER LENGTHS ARE MEASURED FROM INSIDE EDGE OF STRUCTURE TO THE INSIDE EDGE OF STRUCTURE, THEN ADDING 0.5' TO EACH END OF PIPE. SLOPE OF PIPE IS CALCULATED BY DIVIDING THE DIFFERENCE IN ELEVATION BY THE PIPE LENGTH.
3. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
4. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
5. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.
6. ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 12" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED. THE RINGS SHALL BE INCLUDED IN THE COST OF WORK BEING PERFORMED.

**BACKFILL**

1. FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
2. PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.
3. COST OF ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED, INCLUDING BEDDING MATERIAL SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID.
4. THE PAY ITEM FOR STORM SEWER REMOVAL SHALL INCLUDE ANY TRENCH BACKFILL REQUIRED TO FILL AREA OF SEWER REMOVAL WHERE THERE IS NO REPLACEMENT. IF PROPOSED STORM SEWER IS REPLACED IN THE SAME TRENCH, THEN TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY.

**SIGNING AND STRIPING**

1. SEE IDOT STANDARD DETAIL 780001, DISTRICT ONE DETAIL AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
2. SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
3. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
4. LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS AND INCLUDED IN THE UNIT COST OF METAL POST - TYPE B.
5. KANE COUNTY WILL REMOVE ALL EXISTING AND INSTALL ALL NEW SIGNING FOR MOOSEHEART ROAD. RAY JOHNSON (630) 406-7356 SHALL BE CONTACTED A MINIMUM OF 72 HOURS IN ADVANCE OF ANY NECESSARY REMOVAL AND A MINIMUM OF THREE WEEKS IN ADVANCE FOR THE INSTALLATION OF NEW SIGNING.
6. THE QUANTITY OF RECESSED REFLECTIVE PAVEMENT MARKER REMOVAL ALONG MOOSEHEART ROAD IS COVERED IN THE PAY ITEM "RAISED REFLECTIVE PAVEMENT MARKER REMOVAL."

**EROSION CONTROL PLANS**

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SODDING IS PERFORMED.
2. PROPERTIES AND CHANNELS ADJOINING THE SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
6. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
7. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE CONSTRUCTION SITE, CHANNEL, WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
9. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
10. PERMANENT EROSION CONTROL SHALL INCLUDE TOPSOIL FURNISH AND PLACE, 4" AND SODDING, SALT TOLERANT, TO BE PROVIDED IN ACCORDANCE WITH ARTICLE 252 OF THE STANDARD SPECIFICATIONS.
11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.

12. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CREATE A PLAN TO STABILIZE FLOW LINES DURING STORM SEWER CONSTRUCTION WHEN RAIN IS FORECASTED. LACK OF AN APPROVED PLAN FROM THE RESIDENT ENGINEER OR FAILURE TO COMPLY WITH THE STABILIZED FLOW LINE PLAN WILL RESULT IN AN A DEFICIENCY DEDUCTION.

**TRAFFIC CONTROL**

1. SEE TRAFFIC CONTROL PLANS FOR GENERAL NOTES CONCERNING TRAFFIC CONTROL AND PROTECTION.

**EARTHWORK**

1. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
2. THE LOCATIONS OF PROPOSED TREES TO BE PLANTED WILL BE WITHIN THE PROJECT LIMITS AND DETERMINED BY THE RESIDENT ENGINEER.
3. REMOVAL OF THE TWO EXISTING RESIDENTIAL LIGHT POLES ON ILLINOIS ROUTE 31 FROM APPROXIMATELY STA. 25+80 TO STA. 26+70 SHALL BE INCLUDED IN THE UNIT BID PRICE FOR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
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 HRGreen Professional Design Firm  
 #18401202

USER NAME: spenal	DESIGNED: C. HARTKE	REVISED:
PLOT SCALE:	DRAWN: S. PERNAL	REVISED:
PLOT DATE: 7/2/2012	CHECKED: T. HAMILTON	REVISED:
	DATE: 7/2/12	REVISED:

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, LIST OF STATE STANDARDS, AND GENERAL NOTES	
SCALE:	SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	3
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	

STP (M)

CMAQ (CMM)

STP (M)

L23E U

L40EU,01

L40EU,02

L23E U

07RO U

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	500	500				
* 20101100	TREE TRUNK PROTECTION	EACH	16	16				
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	910	910				
* 20101200	TREE ROOT PRUNING	EACH	19	19				
20200100	EARTH EXCAVATION	CU YD	1941.1	1941.1				
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	21	21				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3765.3	3765.3				
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	28	28				
20400800	FURNISHED EXCAVATION	CU YD	2735.2	2735.2				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	4415	4415				
20800150	TRENCH BACKFILL	CU YD	395	395				
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	7605	7605				
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	142	142				
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	142	142				
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	142	142				
* 25200110	SODDING, SALT TOLERANT	SO YD	7605	7605				
* 25200200	SUPPLEMENTAL WATERING	UNIT	15	15				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	158	158				
28000305	TEMPORARY DITCH CHECKS	FOOT	320	320				

- \* SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

Rev.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: # 184-001522  
 CLIENT: # 184-001522  
 DATE PLOTTED: 7/5/2012 12:23:13 PM  
 PLOT NUMBER: # 184-001522  
 PLOT DATE: 7/5/2012



HRGreen.com  
 # 184-001522

USER NAME: c hartke	DESIGNED - C. HARTKE	REVISED -
PLOT SCALE: N/A	DRAWN - S. PERMAL	REVISED -
PLOT DATE: 7/5/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 1 OF 12 SHEETS
STA.	TO STA.


F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS BS	SHEET NO. 4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP(M)	CMAQ(CMM)			STP(M)
				CONSTRUCTION CODE				
				80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
28000400	PERIMETER EROSION BARRIER	FOOT	2010	2010				
28000510	INLET FILTERS	EACH	14	14				
28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	1115	1115				
28100107	STONE RIPRAP, CLASS A4	SO YD	21				21	
28200200	FILTER FABRIC	SO YD	21				21	
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SO YD	4385	4385				
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	16	16				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	675	675				
35501309	HOT-MIX ASPHALT BASE COURSE, 6 1/4"	SO YD	2348	2348				
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SO YD	926	926				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	22	22				
40600300	AGGREGATE (PRIME COAT)	TON	46	46				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	372	372				
40600895	CONSTRUCTING TEST STRIP	EACH	3	3				

- SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 7/5/2012 1:28:16 PM  
 PLOT SCALE: N/A  
 PLOT DATE: 7/5/2012  
 PLOT USER: T. HAMILTON  
 PLOT TABLE:

 HRGreen.com <small>McGraw-Hill Construction Information Group</small>	USER NAME: cbr-the DESIGNED: C. HARTKE DRAWN: S. PERNAL CHECKED: T. HAMILTON PLOT DATE: 7/5/2012	REVISED: - REVISED: - REVISED: - REVISED: -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b> ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 2 OF 12 SHEETS
STA.	TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 5
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60P65				

STP(M)

CMAQ(CMM)

STP(M)

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004	0021	0021	0040	0021
				URBAN	URBAN	URBAN	URBAN	URBAN
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	60	60				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	246	246				
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	590	590				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	79	79				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1303	1303				
42001300	PROTECTIVE COAT	SO YD	838	838				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	140	140				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	80	80				
44000100	PAVEMENT REMOVAL	SO YD	130	130				
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	5620	5620				
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	935	935				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2170	2170				
44002248	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 12"	SO YD	420	420				
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SO YD	10	10				
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SO YD	30	30				

- SPECIALTY ITEMS
- Δ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 7/5/2012 10:21:19 AM  
 FILE NAME: 86100195.rvt  
 PLOT DRIVER: pldrvr  
 PEN TABLE: s:\table\dr\table.tbl



USER NAME: c:\hrtk	DESIGNED - C. HARTKE	REVISED -
PLOT SCALE: N/A	DRAWN - S. PERNAL	REVISED -
PLOT DATE: 7/5/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD

SCALE: N/A SHEET NO. 3 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	6
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60P65	

STP (M)

CMAQ (CMM)

STP (M)

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SO YD	55	55				
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SO YD	60	60				
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SO YD	15	15				
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	120	120				
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	120	120				
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	110	110				
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	4540	4540				
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	950	950				
50102400	CONCRETE REMOVAL	CU YD	7	7				
50105220	PIPE CULVERT REMOVAL	FOOT	306	306				
50200100	STRUCTURE EXCAVATION	CU YD	515				515	
50300225	CONCRETE STRUCTURES	CU YD	7.4				7.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	161				161	
50300300	PROTECTIVE COAT	SG YD	406				406	
50800105	REINFORCEMENT BARS	POUND	750				750	

- SPECIALTY ITEMS
- Δ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

Rev

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: [blank]  
 DATE PLOTTED: 7/5/2012 10:28:28 AM  
 FILE NAME: 8610019614-sun-01.dwg  
 PLOT DRIVER: pdfplot  
 PEN TABLE: \$fontcolor=1;stroke=0;



USER NAME: tcharthe	DESIGNED - C. HARTKE	REVISED -
PLOT SCALE: N/A	DRAWN - S. PERNAL	REVISED -
PLOT DATE: 7/5/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

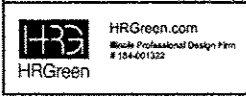
SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 4 OF 12 SHEETS
STA. TO STA.	

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60P65		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP (M)	CMAQ (CMM)			STP (M)
				CONSTRUCTION CODE				
				80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	21,650				21,650	
50901750	PARAPET RAILING	FOOT	375				375	
<del>51500100</del>	<del>NAME PLATES</del>	<del>EACH</del>	<del>1</del>					
54200217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	206	206				
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	51	51				
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	78	78				
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	50	50				
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1				
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	1	1				
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	220	220				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	456	456				
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	144	144				
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	41	41				
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	126	126				

- SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT *Rev*

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 7/5/2012 12:23 PM  
 FILE NAME: 86001961.rsum-01.dgn  
 PLOT DEVICE: plot.dwt  
 PLOT TABLE:



USER NAME: charke	DESIGNED: C. HARTKE	REVISED:
PLLOT SCALE: N/A	DRAWN: S. PERNAL	REVISED:
PLLOT DATE: 7/5/2012	CHECKED: T. HAMILTON	REVISED:
	DATE: 7/5/12	REVISED:

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 5 OF 12 SHEETS
STA.	TO STA.


F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 8
FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 60P65				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP (M)	CMAQ (CMM)	STP (M)		
				CONSTRUCTION CODE				
				80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	175	175				
55100300	STORM SEWER REMOVAL 8"	FOOT	36	36				
55100400	STORM SEWER REMOVAL 10"	FOOT	770	770				
59100100	GEOCOMPOSITE WALL DRAIN	50 YD	16			16		
60107700	PIPE UNDERDRAINS 6"	FOOT	390	390				
60201340	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	14	14				
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5				
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60223800	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3				
60500040	REMOVING MANHOLES	EACH	4	4				
60500050	REMOVING CATCH BASINS	EACH	10	10				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	2447	2447				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	280	280				
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4				

- \* SPECIALTY ITEMS
- Δ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: charke  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 7/5/2012 10:23:33 AM  
 FILE NAME: 66100136.14-sum-01.dgn  
 PLOT DRIVER: pdfplot  
 PLOT TABLE: standard-trans.tbl

 HRGreen.com <small>Multi-Professional Design Firm # 024-011522</small>	USER NAME: charke PLOT SCALE: N/A PLOT DATE: 7/5/2012	DESIGNED - C. HARTKE DRAWN - S. PERNAL CHECKED - T. HAMILTON DATE - 7/5/12	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b> <b>ILLINOIS ROUTE 31 AT MOOSEHEART ROAD</b>			
SCALE: N/A	SHEET NO. 6 OF 12 SHEETS	STA.	TO STA.

F. A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 9
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60P65				

STP (M)

CMAQ (CMM)

STP (M)

CONSTRUCTION CODE

80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
0004	0021	0021	0040	0021
URBAN	URBAN	URBAN	URBAN	URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10				
67100100	MOBILIZATION	L SUM	1	1				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	4300	4300				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	260	260				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	28275	28275				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	470	470				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	198	198				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1435	1435				
* 72000100	SIGN PANEL - TYPE 1	SO FT	69.5	62	7.5			
* 72000200	SIGN PANEL - TYPE 2	SO FT	42	21	21			
* 72900200	METAL POST - TYPE B	FOOT	105	105				
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	75	75				
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6075	6075				
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	540	540				

- SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 DATE PLOTTED: 7/5/2012 12:23:35 PM  
 FILE NAME: B6100106\_14-sum-01.dgn  
 PLOT DRIVER: pdfLsp  
 PER TABLE: standard-trans.tbl

HRGreen.com Professional Design Firm # 154-001332	DESIGNED - C. HARTKE DRAWN - S. PERNAL CHECKED - T. HAMILTON DATE - 7/5/12	REVISED - REVISED - REVISED - REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 7 OF 12 SHEETS STA. TO STA.

F.A. RTE. 3987	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 10
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 60P65		

STP (M)

CMAQ (CMM)

STP (M)

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	145	145				
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	70	70				
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	205	205				
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	6386	6386				
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	340	340				
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	120	120				
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	25	25				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	132	132				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	112	112				
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1			
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5069		869	4200		
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	231		231			
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	46		46			
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	213		213			
81400100	HANDHOLE	EACH	10		4	6		

- SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

Rev.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 7/5/2012 10:23:19 AM  
 FILE NAME: 8610019614-sum-01.dgn  
 PLOT DRIVER: pdfplot  
 PEN TABLE: 81fonttbl.tbl



USER NAME: charcho	DESIGNED - C. HARTKE	REVISED -
	DRAWN - S. PERNAL	REVISED -
PLOT SCALE: N/A	CHECKED - T. HAMILTON	REVISED -
PLOT DATE: 7/5/2012	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION


SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 8 OF 12 SHEETS
STA.	TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 11
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 60P65

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004	0021	0021	0040	0021
				URBAN	URBAN	URBAN	URBAN	URBAN
• 81400200	HEAVY-DUTY HANDHOLE	EACH	2		2			
• 81400300	DOUBLE HANDHOLE	EACH	1		1			
• 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			1		
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	1			1		
<del>87100020</del>	<del>FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F</del>	<del>FOOT</del>	<del>4835.5</del>			<del>4835.5</del>		
• 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4822.5			4822.5		
• 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	428.5		428.5			
• 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2055		2055			
• 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	759		759			
• 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1222.5		1222.5			
• 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	144.5		144.5			
• 87301900	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6, 1C <i>EQUIPMENT CONDUCTOR</i>	FOOT	1120.5		1120.5			
• 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1		1			
• 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3		3			
• 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1		1			
• 87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2		2			

- SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT *Rev.*

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
 FILE NAME: HRGreen  
 PLOT DRIVER: HRGreen  
 PEN TABLE: HRGreen

 HRGreen.com 8000 Professional Design Firm # 124601322	USER NAME: chp-cke DESIGNED - C. HARTKE DRAWN - S. PERNAL CHECKED - T. HAMILTON DATE - 7/5/12	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b> ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 9 OF 12 SHEETS

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 12
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 60P65



STP (M)

CMAQ (CMM)

STP (M)

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
• 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		20			
• 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
• 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26		26			
• 87900200	DRILL EXISTING HANDHOLE	EACH	1			1		
• 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4			
• 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2			
• 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2			
• 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2			
• 88030210	SIGNAL HEAD, LED, 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	1		1			
• 88030220	SIGNAL HEAD, LED, 2-FACE, 5 SECTION, BRACKET MOUNTED	EACH	1		1			
• 88500100	INDUCTIVE LOOP DETECTOR	EACH	6		6			
• 88600100	DETECTOR LOOP, TYPE 1	FOOT	539		539			
Δ • 88700200	LIGHT DETECTOR	EACH	3					3
Δ • 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100				

- SPECIALTY ITEMS
- Δ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

Rev.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: [Name]  
 CLIENT: [Name]  
 DATE PLOTTED: 7/5/2012 1:22:45 PM  
 PLOT ENGINE: [Name]  
 PLOT TABLE: [Name]



USER NAME: char-the	DESIGNED - C. HARTKE	REVISED -
PLOT SCALE: N/A	DRAWN - S. PERNAL	REVISED -
PLOT DATE: 7/5/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 10 OF 12 SHEETS
STA. [ ]	TO STA. [ ]

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 13
FED. ROAD DIST. NO. [ ]		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60P65				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP (M)	CMAQ (CMM)		STP (M)	100% FPD +	
				CONSTRUCTION CODE					
				80% FED 20% STATE ROADWAY 0004 URBAN	80% FED 13.4% STATE 6.6% COUNTY SIGNALS 0021 URBAN	80% FED 20% STATE INTERCONNECT 0021 URBAN	80% FED 20% STATE RET WALL 0040 URBAN		EVP 0021 URBAN
Δ • X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	426.5					426.5	
• 88200510	TRAFFIC SIGNAL BACKPLATE, <i>RETRO REFLECTIVE</i>	EACH	6		6				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	17	17					
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SO YD	725	725					
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	3135	3135					
Δ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	100	100					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
X7240195	REMOVE EXISTING SIGN PANEL	EACH	16	16					
• X7810300	RECESSED REFLECTIVE PAYMENT MARKER	EACH	75	75					
• X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1				
• X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1		1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
Δ Z0005305	BOX TO BE CLEANED <i>CULVERT</i>	FOOT	60	60					
Δ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5					
Z0022800	FENCE REMOVAL	FOOT	1289	1289					

- SPECIALTY ITEMS
- Δ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #194-001332  
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PLOT SCALE: N/A	DRAWN - S. PERNAL	REVISED -
PLOT DATE: 7/5/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 11 OF 12 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3087	AR-N-2	KANE	85	14
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 60P65

STP (M)

CMAQ (CMM)

STP (M)

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE ROADWAY	80% FED 13.4% STATE 6.6% COUNTY SIGNALS	80% FED 20% STATE INTERCONNECT	80% FED 20% STATE RET WALL	100% FPD + EVP
				0004 URBAN	0021 URBAN	0021 URBAN	0040 URBAN	0021 URBAN
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	77.1	77.1				
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1		
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	2355				2355	
Z0300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	261.4	261.4				
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1			
Z0076600	TRAINEES	HOOR	500	500				
* A2000220	TREE, ACER X FREEMANII MARMO (MARMO FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10				
* A2001720	TREE, ACER SACCHARUM (SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10				
* A2005616	TREE, OSTRYA VIRGINIANA (AMERICAN HOP HORNBEAM), 2" CALIPER, BALLED AND BURLAPPED	EACH	3	3				
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5				
* A2006816	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	6	6				
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	2	2				
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4835.5	4835.5				

- \* SPECIALTY ITEMS
- △ NON PARTICIPATING ITEMS
- + NORTH AURORA FIRE PROTECTION DISTRICT

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 PROJECT CONTACT: [blank]  
 CLIENT: [blank]  
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 PLOT DATE: 7/5/2012



HRGreen.com  
 41544001322

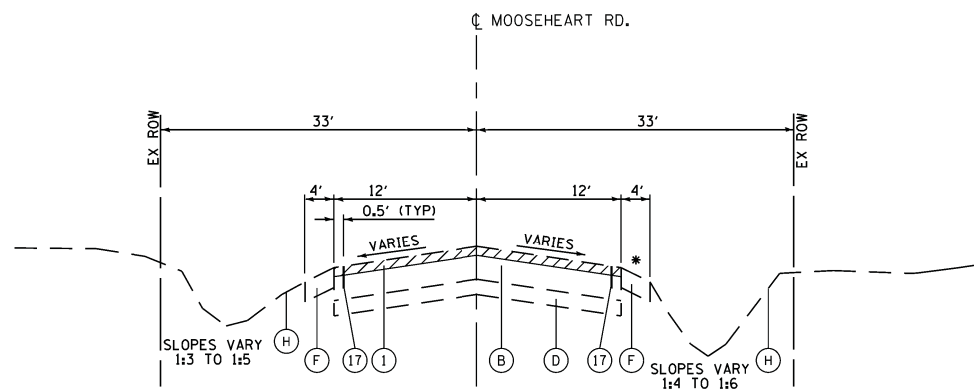
USER NAME: charthe	DESIGNED - C. HARTKE	REVISED -
	DRAWN - S. PERNAL	REVISED -
	CHECKED - T. HAMILTON	REVISED -
	DATE - 7/5/12	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 ILLINOIS ROUTE 31 AT MOOSEHEART ROAD

SCALE: N/A SHEET NO. 12 OF 12 SHEETS STA. TO STA.

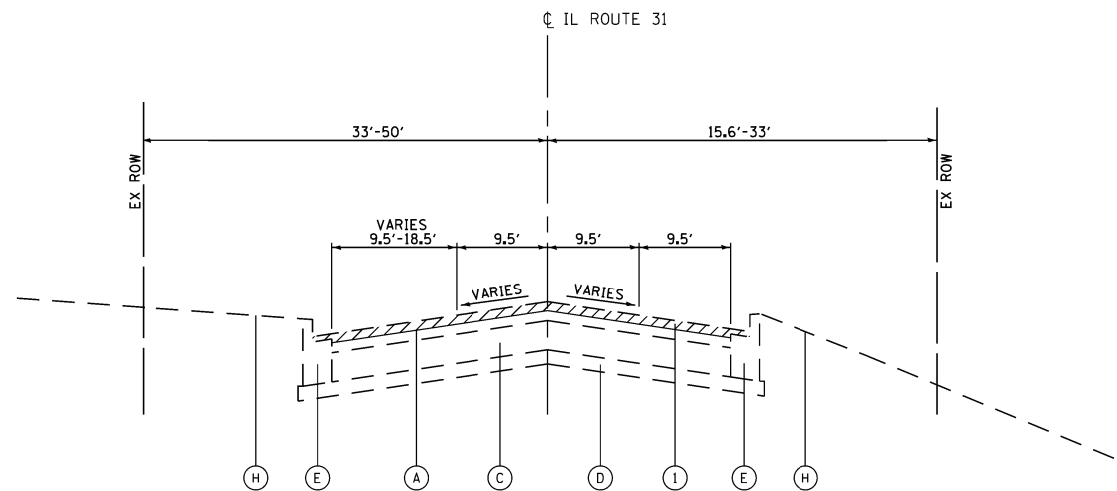
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	15
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	



EXISTING MOOSEHEART ROAD TYPICAL SECTION

STA. 54+20.00 TO STA. 66+01.24

\* 3'-5' HMA SHOULDER - STA. 56+50.00 TO STA. 58+20.00



EXISTING ILLINOIS ROUTE 31 TYPICAL SECTION

STA. 23+46.39 TO STA. 34+81.54

EXISTING CONDITIONS

- (A) HMA RESURFACING, VARIES 3"-5"
- (B) HMA PAVEMENT, VARIES 7"-9"
- (C) PCC PAVEMENT, VARIES 6"-8.5"
- (D) AGGREGATE SUBBASE, VARIES 2"-3"
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) AGGREGATE SHOULDERS
- (H) EXISTING GROUND

PROPOSED IMPROVEMENTS

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, VARIES 0.5"-2"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2"
- (3) HOT-MIX ASPHALT BASE COURSE, 6 1/4"
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (5) LEVELING BINDER (MACHINE METHOD), N90, VARIES 3/4" - 2 1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (7) COMBINATION CONCRETE CURB & GUTTER TYPE B.6-24
- (8) HOT-MIX ASPHALT SHOULDERS, 8"
- (9) TOPSOIL, FURNISH AND PLACE, 4" WITH SODDING, SALT TOLERANT
- (10) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (11) RETAINING WALL
- (12) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4" - 4"
- (13) AGGREGATE SUBGRADE IMPROVEMENT (CU YD)
- (14) PIPE UNDERDRAINS, 6"
- (15) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (16) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (17) SAWCUT

COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNAL  
 DATE PLOTTED: 7/27/2012 3:27:04 PM  
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	DRAWN - S. PERNAL	REVISED -	
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PLOT DATE = 7/27/2012	DATE - 7/20/2012	REVISED -	

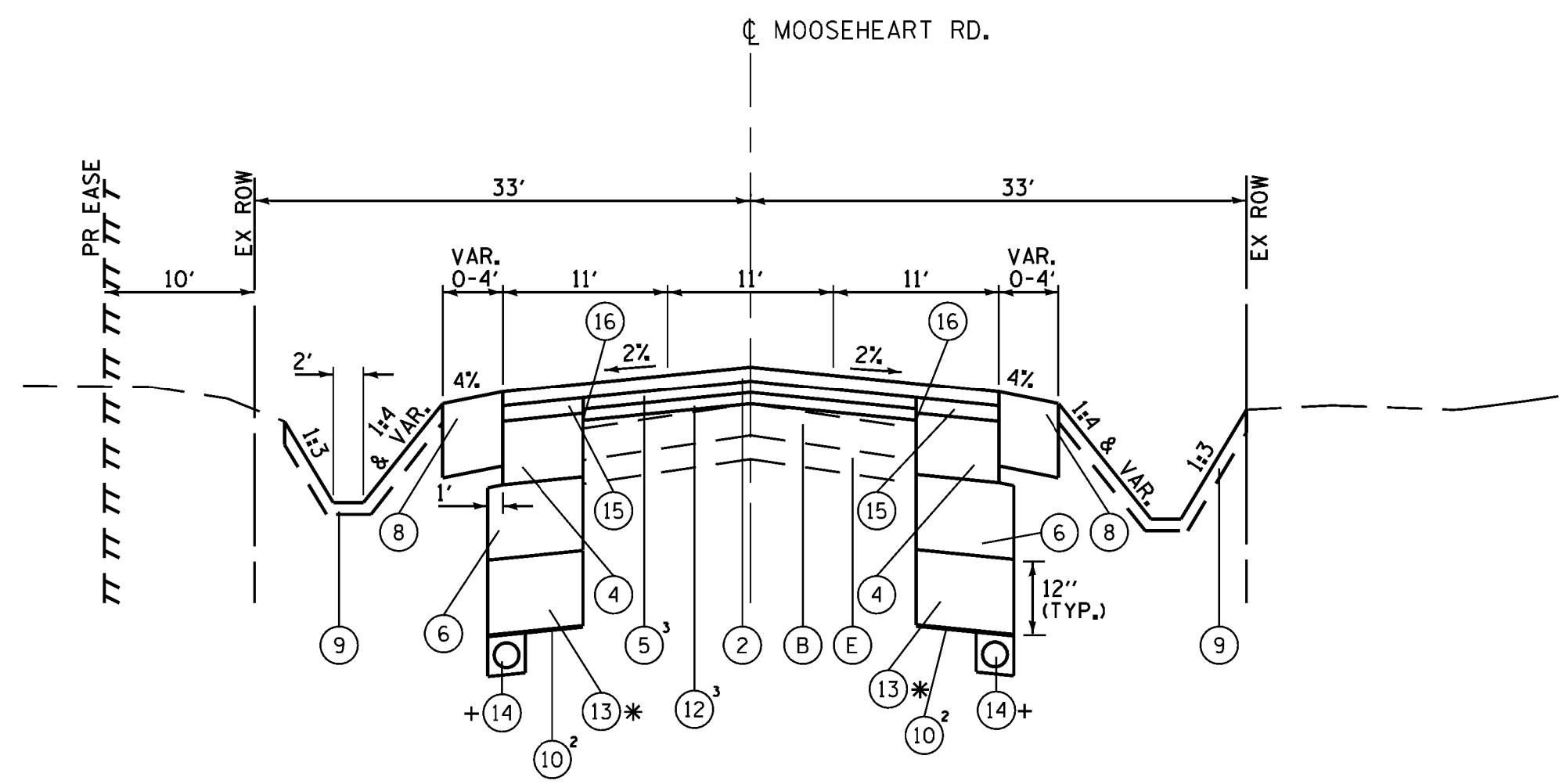
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS  
 ILLINOIS ROUTE 31 AT MOOSEHEART ROAD

SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	





PROPOSED MOOSEHEART ROAD TYPICAL SECTION

STA. 54+20.00 TO STA. 66+01.24

\* AGGREGATE SUBGRADE IMPROVEMENT  
STA. 58+00 TO STA. 64+50

+ PIPE UNDERDRAINS  
STA. 58+15.03 TO STA. 58+48.41 LT  
STA. 58+14.97 TO STA. 58+53.44 RT  
STA. 58+15.03 TO STA. 58+48.41 LT  
STA. 58+14.97 TO STA. 58+53.44 RT  
STA. 61+00.00 TO STA. 61+33.83 LT  
STA. 61+00.00 TO STA. 61+35.13 RT  
STA. 64+69.07 TO STA. 64+98.52 LT  
STA. 64+72.75 TO STA. 65+05.05 RT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
<b>PAVEMENT RESURFACING</b>	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 2"	4% @ 90 GYR.
LEVELING BINDER (MACHINE METHOD) N90, 3/4" - 2 1/4"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4" - 4"	4% @ 90 GYR.
<b>PAVEMENT WIDENING - ILLINOIS ROUTE 31</b>	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 2"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm), 6 1/4" (IN 2 LIFTS)	4% @ 90 GYR.
<b>PAVEMENT WIDENING - MOOSEHEART ROAD</b>	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 2"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm), 8" (IN 2 LIFTS)	4% @ 90 GYR.
<b>HOT-MIX ASPHALT SHOULDERS, 8"</b>	
HMA SURFACE COURSE, MIX "D", N 50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm); 6"	4% @ 50 GYR.
<b>DRIVEWAYS</b>	
HMA SURFACE COURSE, MIX "D", N 50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm); 6"; CE -8" (IN 2 LIFTS)	4% @ 50 GYR.
<b>PATCHING</b>	
CLASS D PATCHES (HMA BINDER, IL-19mm)	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

NOTES:

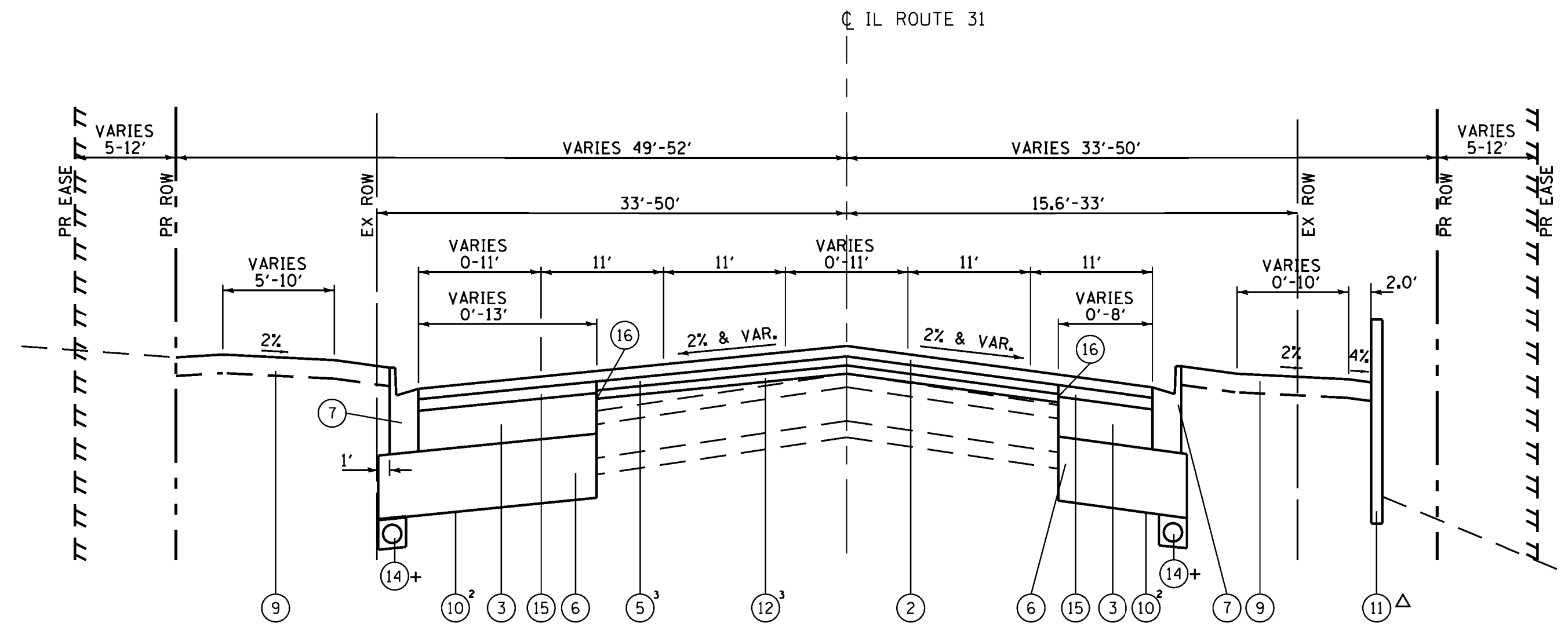
- THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING ALONG MOOSEHEART ROAD AND PATCH FIRST BEFORE MILLING ALONG ILLINOIS ROUTE 31. SEE DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL BE USED THROUGHOUT THE WIDENING SECTION, EITHER BELOW THE AGGREGATE SUBGRADE IMPROVEMENT OR UNDER THE PGES WHEN REQUIRED.
- FOR PROFILE CORRECTION, REFER TO PLAN AND PROFILE SHEETS  
MOOSEHEART RD: STA. 56+00.00 TO STA. 60+50.00 AND STA. 62+50.00 TO STA. 66+01.24  
ILLINOIS ROUTE 31: STA. 28+50.00 TO STA. 30+50.00

MOOSEHEART ROAD PAVEMENT TRANSITIONS				
STA.	STA.	MILL	LEV BIND	POLY BC
54+20.00	56+89.00	0.5"-2"	0"-2 1/4"	0"
56+89.00	58+25.00	0.5"	0"-2 1/4"	2 1/4"-4"
58+25.00	62+75.00	0.5"-2"	0"-2 1/4"	0"
62+75.00	63+75.00	0.5"	0"	2 1/4"-4"
63+75.00	65+00.00	0.5"-2"	0"-2 1/4"	0"
65+00.00	66+01.24	0.5"	0"-2 1/4"	2 1/4"-4"

ILLINOIS ROUTE 31 PAVEMENT TRANSITIONS				
STA.	STA.	MILL	LEV BIND	POLY BC
23+46.39	29+48.00	0.5"-2"	0"-2 1/4"	0"
29+48.00	30+16.00	0.5"	0"-2 1/4"	2 1/4"-4"
30+16.00	32+00.00	0.5"-2"	0"-2 1/4"	0"
32+00.00	32+50.00	0.5"-2"	0"	2 1/4"-4"
32+50.00	34+81.54	0.5"-2"	0"-2 1/4"	0"

EXISTING CONDITIONS

- (A) HMA RESURFACING, VARIES 3"-5"
- (B) HMA PAVEMENT, VARIES 7"-9"
- (C) PCC PAVEMENT, VARIES 6"-8.5"
- (D) AGGREGATE SUBBASE, VARIES 2"-3"
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) AGGREGATE SHOULDERS
- (H) EXISTING GROUND



SUPERELEVATION TABLE

IL ROUTE 31

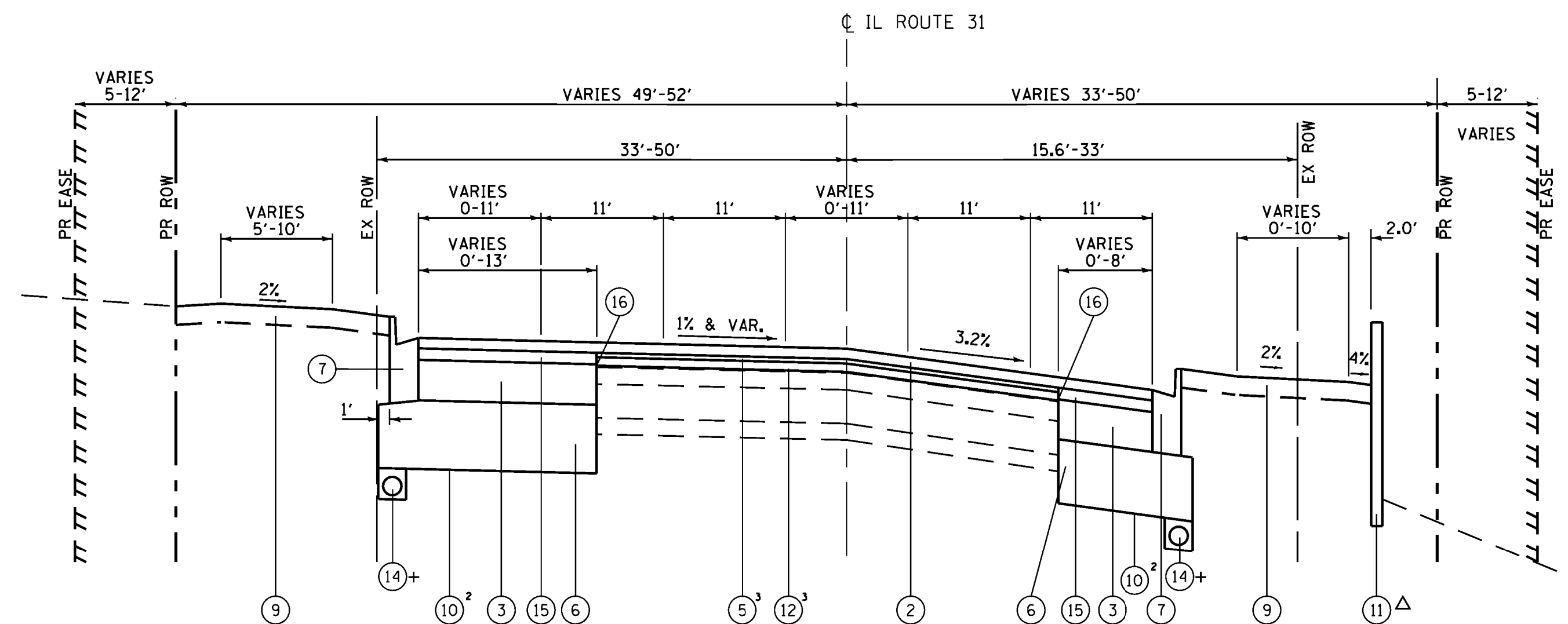
LEFT		RIGHT	
STA.	SLOPE	STA.	SLOPE
23+46.39	-2.0%	23+46.39	-2.0%
27+50.00	-2.0%	25+10.00	-2.0%
29+00.00	1.0%	27+50.00	-3.2%
31+50.00	1.0%	33+30.00	-3.2%
33+00.00	-2.0%	34+15.00	-2.0%
34+81.54	-2.0%	34+81.54	-2.0%

PROPOSED ILLINOIS ROUTE 31 TYPICAL SECTION

STA. 23+46.39 TO STA. 27+50.00  
STA. 33+30.00 TO STA. 34+81.54

△ RETAINING WALL FROM STA. 33+30.00 TO STA. 35+00.00

+ PIPE UNDERDRAINS  
STA. 23+53.64 TO STA. 23+85.11 LT  
STA. 23+54.97 TO STA. 23+86.45 RT



PROPOSED ILLINOIS ROUTE 31 TYPICAL SECTION

STA. 27+50.00 TO STA. 33+30.00

△ RETAINING WALL FROM STA. 30+50.00 TO STA. 33+30.00

+ PIPE UNDERDRAINS  
STA. 27+86.33 TO STA. 28+17.83 LT  
STA. 27+88.55 TO STA. 28+19.72 RT  
STA. 31+76.26 TO STA. 32+05.41 LT  
STA. 31+43.93 TO STA. 31+74.56 RT

PROPOSED IMPROVEMENTS

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, VARIES 0.5"-2"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2"
- (3) HOT-MIX ASPHALT BASE COURSE, 6 1/4"
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (5) LEVELING BINDER (MACHINE METHOD), N90, VARIES 3/4" - 2 1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (7) COMBINATION CONCRETE CURB & GUTTER TYPE B.6-24
- (8) HOT-MIX ASPHALT SHOULDERS, 8"
- (9) TOPSOIL, FURNISH AND PLACE, 4" WITH SODDING, SALT TOLERANT
- (10) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (11) RETAINING WALL
- (12) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4" - 4"
- (13) AGGREGATE SUBGRADE IMPROVEMENT (CU YD)
- (14) PIPE UNDERDRAINS, 6"
- (15) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (16) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (17) SAWCUT

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: spernal  
DATE PLOTTED: 7/27/2012 3:38:54 PM  
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PLOT SCALE : N/A	DRAWN - S. PERNAL	REVISED -	
PLOT DATE : 7/27/2012	CHECKED - T. HAMILTON	REVISED -	
	DATE - 7/20/2012	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD

SCALE: N/A SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 17
CONTRACT NO. 60P65			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

### SCHEDULE OF QUANTITIES

ILLINOIS ROUTE 31								
STATION	STAGE 1 (CU YD)				STAGE 2 (CU YD)			
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	FURNISHED EXCAVATION	AGGREGATE SUBGRADE IMPROVEMENT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	FURNISHED EXCAVATION	AGGREGATE SUBGRADE IMPROVEMENT
23+46.39								
23+50.00	3.430	0.882	3.697	0.000	1.879	0.348	3.643	0.000
24+00.00	50.000	15.556	30.185	0.000	9.352	8.519	30.741	0.000
24+43.60	44.811	17.036	25.595	0.000	18.247	9.689	28.259	0.000
24+50.00	6.791	2.797	3.864	0.000	4.018	1.339	4.575	0.000
25+00.00	57.130	42.870	28.333	0.000	27.963	15.185	36.759	0.000
25+50.00	60.833	65.741	27.222	0.000	27.870	18.333	40.741	0.000
25+65.00	18.250	17.833	8.361	0.000	13.306	5.083	13.028	0.000
26+00.00	42.583	38.889	19.704	0.000	31.954	13.417	30.657	0.000
26+13.50	23.125	20.775	7.800	0.000	9.125	5.875	11.825	0.000
26+50.00	61.644	52.519	21.562	0.000	23.793	15.817	31.566	0.000
26+80.87	36.186	27.554	18.236	0.000	23.953	12.234	24.810	0.000
27+00.00	22.247	15.481	11.088	0.000	13.533	8.148	13.781	0.000
27+50.00	56.852	35.556	29.815	0.000	29.074	23.241	39.537	0.000
28+00.00	59.630	27.593	54.722	0.000	36.019	22.778	46.204	0.000
28+50.00	57.130	26.111	61.852	0.000	30.833	25.556	38.611	0.000
28+76.90	27.398	17.336	21.371	0.000	18.182	14.895	15.692	0.000
29+00.00	23.271	15.143	19.892	0.000	15.272	12.277	14.117	0.000
29+18.29	15.140	9.484	19.713	0.000	9.450	8.637	11.482	0.000
29+50.00	32.239	18.967	40.988	0.000	16.501	14.622	19.672	0.000
30+00.00	35.278	17.963	58.889	0.000	22.500	23.241	32.500	0.000
30+35.34	23.429	21.924	31.086	0.000	19.110	14.660	23.560	0.000
30+50.00	19.465	18.814	13.140	0.000	8.877	7.059	9.963	0.000
31+00.00	55.648	50.185	46.204	0.000	33.056	24.722	48.704	0.000
31+50.00	43.241	33.981	49.630	0.000	35.278	19.167	71.852	0.000
32+00.00	49.074	26.574	80.648	0.000	33.056	11.111	103.148	0.000
32+18.00	9.800	10.400	34.300	0.000	5.767	3.667	44.600	0.000
32+50.00	16.356	17.956	60.207	0.000	9.659	9.067	66.370	0.000
33+00.00	50.000	43.519	72.685	0.000	28.704	12.963	67.778	0.000
33+50.00	46.574	51.389	39.444	0.000	26.759	13.796	54.815	0.000
34+00.00	41.481	21.759	41.852	0.000	25.648	12.130	67.778	0.000
34+28.03	21.801	7.319	23.203	0.000	13.755	5.969	42.201	0.000
34+50.00	17.291	10.497	16.681	0.000	10.497	4.231	33.362	0.000
34+81.54	12.499	10.046	24.590	0.000	7.476	2.570	34.344	0.000
	<b>1140.6</b>	<b>810.4</b>	<b>1046.6</b>	<b>0.0</b>	<b>640.5</b>	<b>400.3</b>	<b>1156.7</b>	<b>0.0</b>
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)

TREE REMOVALS			
CHAIN	STA.	OFFSET	UNIT
RTE31	23+48.1	35.2' LT	15
RTE31	23+63.9	34.5' LT	12
RTE31	24+41.7	43.3' LT	12
RTE31	24+41.7	46.0' LT	12
RTE31	24+45.6	37.7' LT	12
RTE31	24+47.0	37.7' LT	12
RTE31	24+48.0	37.7' LT	12
RTE31	24+49.0	37.7' LT	12
RTE31	24+50.0	37.7' LT	12
RTE31	24+52.1	30.4' LT	10
RTE31	24+54.0	30.4' LT	31
RTE31	24+56.7	42.3' LT	6
RTE31	24+76.7	41.3' LT	22
RTE31	24+89.1	30.4' LT	27
RTE31	24+89.1	33.0' LT	30
RTE31	25+21.9	26.7' LT	26
RTE31	25+21.9	30.0' LT	29
RTE31	25+27.4	41.1' LT	24
RTE31	25+57.0	37.1' LT	27
RTE31	26+04.9	54.9' LT	22
RTE31	26+37.4	36.4' LT	30
RTE31	26+54.0	32.7' LT	26
RTE31	26+54.0	35.0' LT	28
RTE31	26+95.5	36.1' LT	26
RTE31	27+35.7	41.8' LT	12
RTE31	27+53.3	41.1' LT	26
RTE31	27+64.1	30.8' LT	40
RTE31	27+64.1	34.0' LT	27
RTE31	27+84.0	46.6' LT	6
RTE31	28+37.5	42.4' LT	6
RTE31	28+39.8	40.3' LT	8
RTE31	28+42.9	33.4' LT	10
RTE31	28+47.9	34.0' LT	8
RTE31	28+49.6	33.4' LT	10
RTE31	28+49.6	33.4' LT	10
RTE31	28+53.7	34.5' LT	8
RTE31	28+56.1	39.6' LT	8
RTE31	28+56.9	35.7' LT	6
RTE31	28+60.0	35.9' LT	10
RTE31	28+67.4	33.9' LT	16
RTE31	28+67.4	36.0' LT	26
RTE31	28+70.1	33.9' LT	6
RTE31	28+70.1	35.0' LT	25
RTE31	28+77.4	37.5' LT	12
RTE31	28+77.4	39.0' LT	12
RTE31	28+83.7	37.9' LT	12
RTE31	28+91.8	38.6' LT	10
RTE31	28+97.5	38.5' LT	8
RTE31	29+13.6	40.3' LT	10
RTE31	29+17.9	37.2' LT	18
RTE31	29+22.6	44.6' LT	14
RTE31	29+25.9	37.7' LT	14
RTE31	29+25.9	40.0' LT	14
RTE31	29+48.2	38.4' LT	8
RTE31	29+47.7	41.3' LT	18
RTE31	29+55.7	56.0' LT	8
RTE31	29+64.8	55.8' LT	12
RTE31	29+64.8	58.0' LT	23
RTE31	29+68.6	53.2' LT	14
RTE31	29+68.6	55.0' LT	24
RTE31	29+69.7	65.2' LT	7
RTE31	29+69.7	67.0' LT	22
RTE31	29+74.1	37.9' RT	18
RTE31	30+55.0	51.6' LT	26
RTE31	30+87.6	48.8' LT	26
RTE31	31+10.8	39.9' RT	8
RTE31	31+26.5	35.8' RT	8
RTE31	31+46.7	45.3' RT	7
RTE31	31+50.9	41.1' RT	12
RTE31	31+56.3	48.2' LT	16
RTE31	31+98.7	46.9' LT	24
RTE31	32+16.7	45.2' RT	6
RTE31	32+27.7	42.6' RT	10
RTE31	32+40.7	41.5' RT	8
RTE31	32+54.2	42.1' RT	7
RTE31	32+59.4	45.3' LT	26
RTE31	32+87.3	41.8' RT	26
RTE31	32+89.7	41.3' RT	6
RTE31	32+91.0	41.3' RT	6

TREE REMOVALS			
CHAIN	STA.	OFFSET	UNIT
RTE31	33+00.1	44.3' LT	32
RTE31	33+38.7	33.6' LT	10
RTE31	33+64.2	45.9' LT	18
RTE31	33+84.0	34.4' LT	10
RTE31	34+37.4	34.5' LT	14
MOOSE	57+52.6	30.3' LT	44
MOOSE	63+04.8	34.8' RT	34
MOOSE	63+04.8	37.0' RT	8

MOOSEHEART ROAD								
STATION	STAGE 1 (CU YD)				STAGE 2 (CU YD)			
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	FURNISHED EXCAVATION	AGGREGATE SUBGRADE IMPROVEMENT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	FURNISHED EXCAVATION	AGGREGATE SUBGRADE IMPROVEMENT
54+20.00								
54+50.00	5.944	2.056	29.000	0.000	30.333	1.500	40.500	0.000
54+73.30	3.279	1.036	17.302	0.000	15.490	1.208	20.711	0.000
55+00.00	9.197	1.187	24.920	0.000	21.805	1.434	24.228	0.000
55+23.25	11.324	1.206	24.757	0.000	19.160	1.550	21.011	0.000
55+50.00	13.771	1.932	28.731	0.000	19.765	1.981	26.304	0.000
56+00.00	28.056	5.556	50.185	0.000	29.815	3.889	50.463	0.000
56+50.00	31.204	6.389	47.315	0.000	25.741	6.111	40.185	0.000
57+00.00	38.519	5.926	46.019	0.000	26.389	6.574	39.537	0.000
57+30.09	27.805	6.297	26.134	0.000	21.676	2.730	30.870	0.000
57+50.00	18.361	5.567	18.361	0.000	13.310	1.696	20.094	0.000
58+00.00	47.685	12.963	49.722	5.648	30.000	9.537	44.352	4.352
58+26.97	29.018	10.738	25.921	5.993	26.620	8.541	19.628	4.745
58+50.00	22.774	9.425	21.878	4.990	23.329	7.847	16.420	4.265
58+84.08	34.017	10.792	27.706	7.068	39.003	12.180	26.380	6.627
58+95.68	18.517	4.425	7.261	2.341	14.242	4.619	7.991	2.299
59+00.00	8.752	1.696	2.672	0.872	3.800	1.680	3.200	0.864
59+50.00	74.630	17.963	47.222	10.000	31.944	17.315	36.019	10.093
60+00.00	50.000	14.722	67.593	10.093	29.444	16.481	40.093	10.093
60+37.51	47.304	10.836	49.874	7.710	26.952	11.600	40.358	7.433
60+50.00	17.162	4.071	19.776	2.614	9.136	3.654	14.757	2.452
61+00.00	58.611	19.352	77.593	10.556	37.593	14.259	61.204	9.722
61+50.00	54.352	22.593	57.130	10.648	38.704	14.352	61.944	9.630
61+93.05	59.313	17.938	42.970	8.610	31.650	12.835	51.022	8.211
62+00.00	11.776	2.780	6.101	1.339	5.225	2.111	8.173	1.313
62+50.00	66.574	18.241	50.741	10.278	41.389	15.185	56.574	9.537
62+92.63	38.920	13.026	45.472	9.158	49.419	13.894	41.525	8.131
63+00.00	6.660	2.252	7.302	1.610	8.339	2.593	5.514	1.392
63+50.00	48.704	18.148	46.296	11.296	38.056	14.907	41.296	8.981
64+00.00	56.574	25.648	42.593	12.315	35.556	12.407	46.481	7.963
64+50.00	50.093	23.519	34.352	6.481	31.667	13.056	35.463	3.704
65+00.00	38.611	15.278	28.426	0.000	25.185	11.574	30.463	0.000
65+50.00	55.926	47.037	26.111	0.000	37.315	42.685	31.481	0.000
66+00.00	36.111	39.907	21.667	0.000	26.574	37.778	28.519	0.000
	<b>1119.5</b>	<b>400.5</b>	<b>1119.1</b>	<b>139.6</b>	<b>864.6</b>	<b>329.8</b>	<b>1062.8</b>	<b>121.8</b>
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)

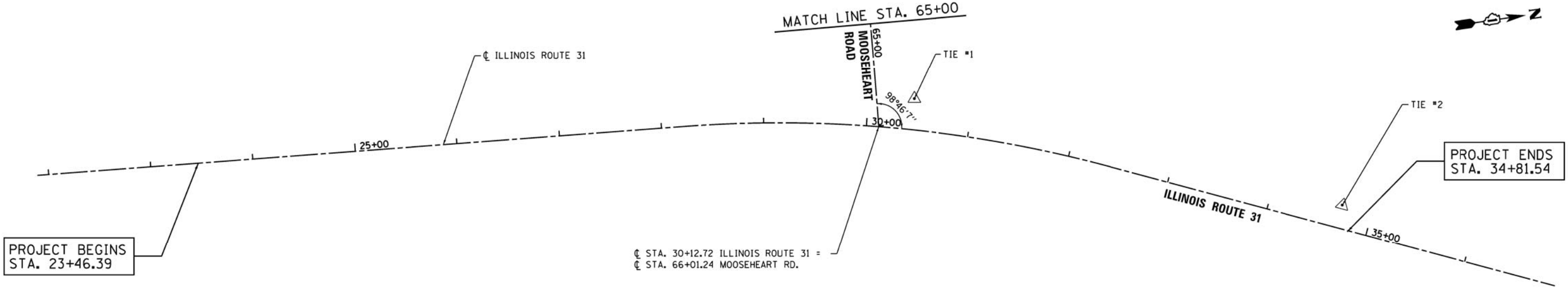
NOTE: 15% SHRINKAGE FACTOR USED FOR FURNISHED EXCAVATION

USER NAME = spernal	DESIGNED - C. HARTKE	REVISED - C. HARTKE	8/3/2012
	DRAWN - S. PERNAL	REVISED -	
PLLOT SCALE = N/A	CHECKED - T. HAMILTON	REVISED -	
PLLOT DATE = 7/27/2012	DATE - 7/20/2012	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD	
SCALE: N/A	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

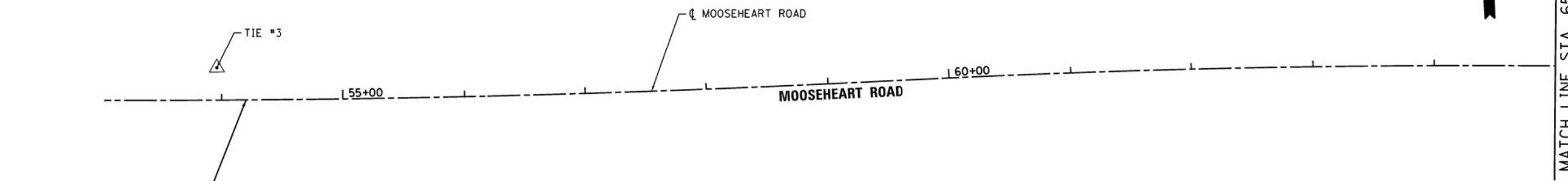
F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 18
FED. ROAD DIST. NO.				



PROJECT BEGINS  
STA. 23+46.39

PROJECT ENDS  
STA. 34+81.54

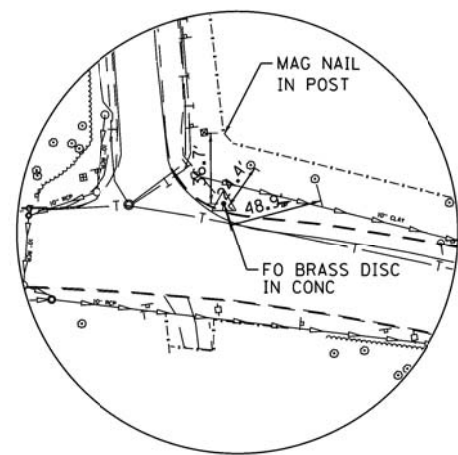
☐ STA. 30+12.72 ILLINOIS ROUTE 31 =  
☐ STA. 66+01.24 MOOSEHEART RD.



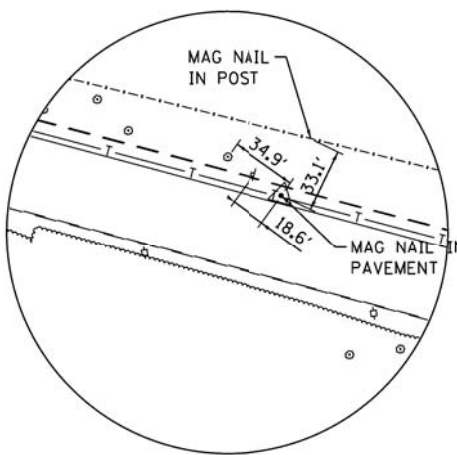
PROJECT BEGINS  
STA. 54+20.00

MATCH LINE STA. 65+00

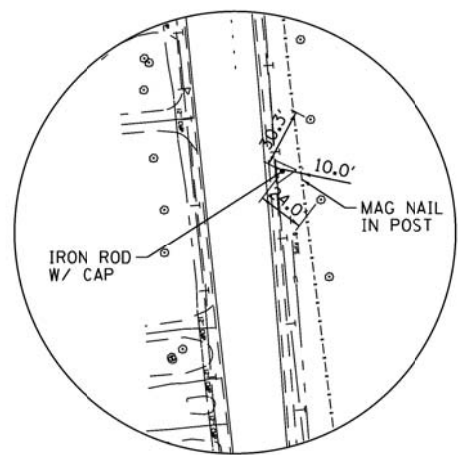
PROP. CURVE RTE31-1	PROP. CURVE MOOSE-1	PROP. CURVE MOOSE-2
PI STA. = 30+33.23	PI STA. = 55+99.31	PI STA. = 62+97.78
Δ = 19° 17' 31" (RT)	Δ = 2° 56' 00" (LT)	Δ = 3° 50' 19" (RT)
D = 4° 37' 14"	D = 0° 29' 00"	D = 0° 38' 00"
R = 1,240.00'	R = 11,854.30'	R = 9,046.75'
T = 210.75'	T = 303.52'	T = 303.16'
L = 417.52'	L = 606.90'	L = 606.10'
E = 17.78'	E = 3.88'	E = 5.08'
P.C. STA. = 28+22.48	P.C. STA. = 52+95.80	P.C. STA. = 59+94.62
P.T. STA. = 32+40.00	P.T. STA. = 59+02.70	P.T. STA. = 66+00.72



TIE #1 N: 1876555.430  
E: 985903.170



TIE #2 N: 1876954.084  
E: 986066.413



TIE #3 N: 1876580.609  
E: 984722.493

NOTE:  
COMBINED GRID FACTOR = 0.99994389

- BENCHMARKS**
- SQUARE CUT ON N END OF CONCRETE HEADWALL ON EAST SIDE OF IL RTE 31 APPROXIMATELY 250' NORTH OF MOOSEHEART RD. ELEV. = 677.89
  - "X" CUT ON TOP OF CONCRETE FOUNDATION ON FAR EAST MOST GATE POST AT MOOSEHEART RD. AND INTERNATIONAL DR. ELEV. = 692.74



COMPANY NAME: HRGreen  
 PROJECT CONTACT: spernal  
 DATE PLOTTED: 6/26/2012 12:55:31 PM  
 FILE NAME: 86100196\_14-Ha.dgn  
 PLOT DRIVER: pdfplot  
 PEN TABLE: standard-trans.tbl



USER NAME = spernal	DESIGNED - C. HARTKE	REVISED -
PLLOT SCALE = 1"=50'	DRAWN - S. PERNAL	REVISED -
PLLOT DATE = 6/26/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 6/26/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. BEG TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	19
CONTRACT NO. 60P65				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



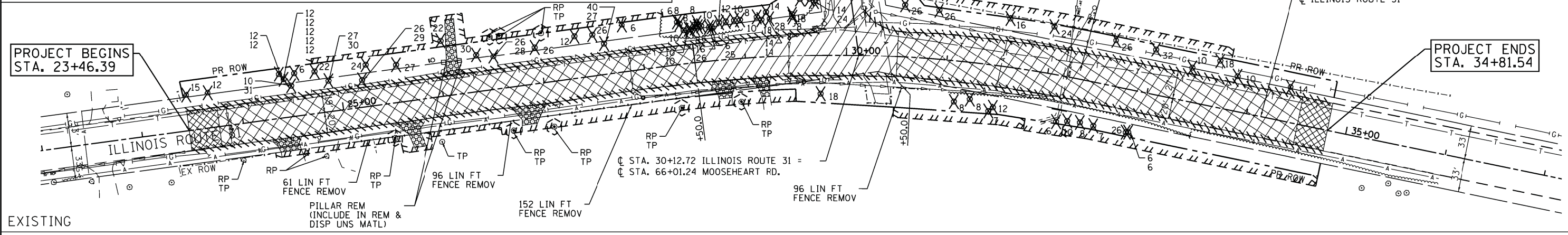
	HOT-MIX ASPHALT SURFACE REMOVAL - 2"		COMBINATION CURB & GUTTER REMOVAL		TREE TRUNK PROTECTION
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		TREE REMOVAL (WITH SIZE)		RP TREE ROOT PRUNING
	DRIVEWAY PAVEMENT REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL - VARIABLE DEPTH (0.5'-2')		TP TREE PRUNING

**NOTES:**  
 1. SEE DRAINAGE AND UTILITY PLANS FOR RELATED REMOVALS  
 2. REFER TO PLAT OF HIGHWAYS FOR RIGHT OF WAY INFORMATION



**PROJECT BEGINS STA. 23+46.39**

**PROJECT ENDS STA. 34+81.54**

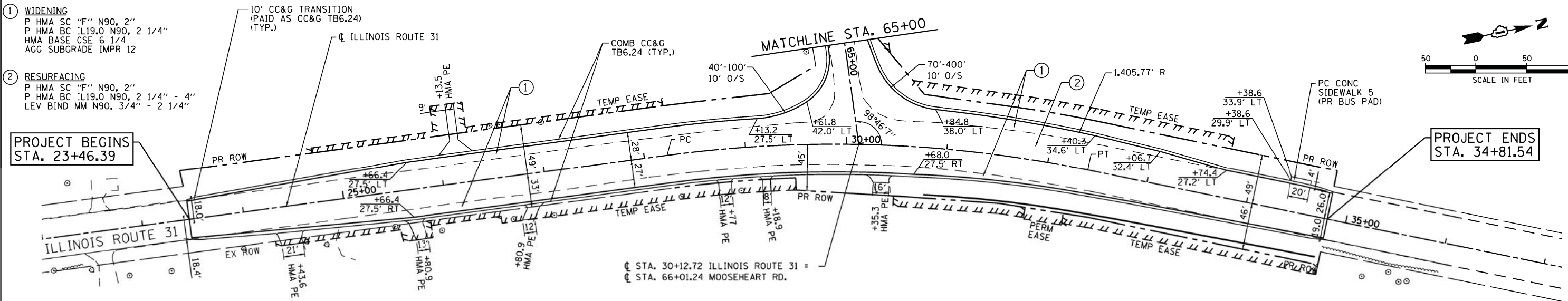


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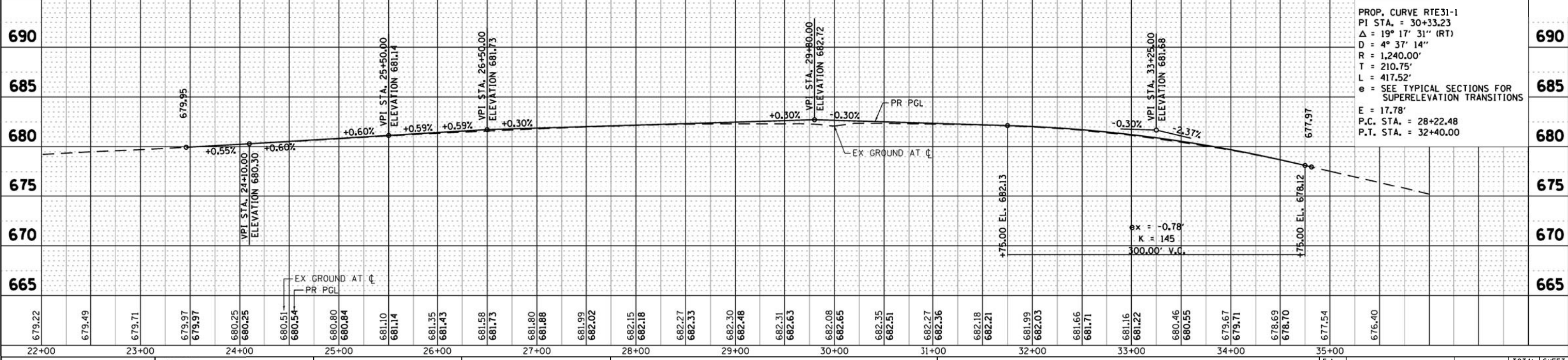
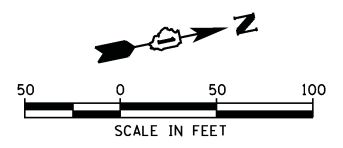
- ① **WIDENING**  
 P HMA SC "F" N90, 2"  
 P HMA BC IL19.0 N90, 2 1/4"  
 HMA BASE CSE 6 1/4  
 AGG SUBGRADE IMPR 12
- ② **RESURFACING**  
 P HMA SC "F" N90, 2"  
 P HMA BC IL19.0 N90, 2 1/4" - 4"  
 LEV BIND MM N90, 3/4" - 2 1/4"

**PROJECT BEGINS STA. 23+46.39**

**PROJECT ENDS STA. 34+81.54**



**PROPOSED**



DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PLAN	
NO.	

DATE	
BY	
PROFILE	
NO.	
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PROFILE	
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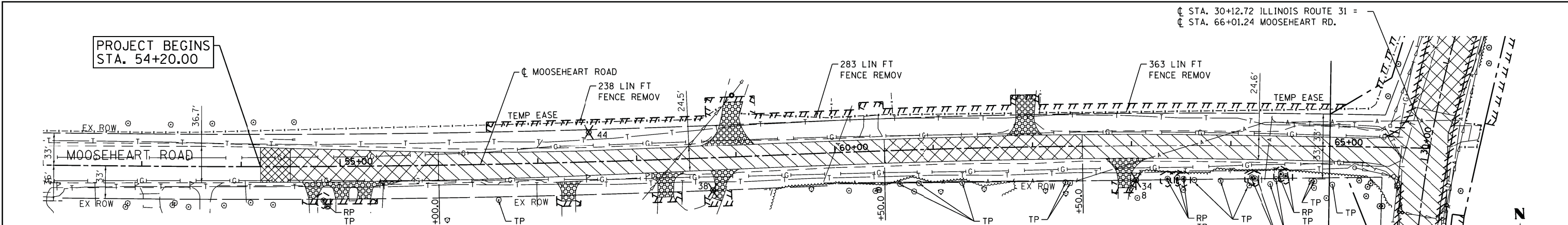
	HRGreen.com Illinois Professional Design Firm # 184-01322	USER NAME = spernal FILE NAME = 86100196.14-prp-01.dgn PLOT SCALE = 1"=50' PLOT DATE = 7/27/2012	DESIGNED - C. HARTKE DRAWN - S. PERNA CHECKED - T. HAMILTON DATE - 7/20/2012	REVISED - REVISED - S. LIPKIE 7/2012 REVISED - C. HARTKE 8/3/2012 REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>		<b>ROADWAY PLAN AND PROFILE          ILLINOIS ROUTE 31</b>		F.A. RTE. = 3887 SECTION = AR-N-2 COUNTY = KANE TOTAL SHEETS = 85 SHEET NO. = 20 CONTRACT NO. = 60P65
	SCALE: 1"=50'			SHEET NO. 1 OF 2 SHEETS		STA. 23+46.39 TO STA. 27+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



DATE	
BY	
PLAN	
NO. BOOK	
NO.	
DATE	
BY	
PROFILE	
NO.	
DATE	
BY	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: S. PERNA  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 7/27/2012 2:16:40 PM  
 FILE NAME: 86100196.14-prp-02.dgn  
 PLOT NUMBER: 2  
 PER TABLE:

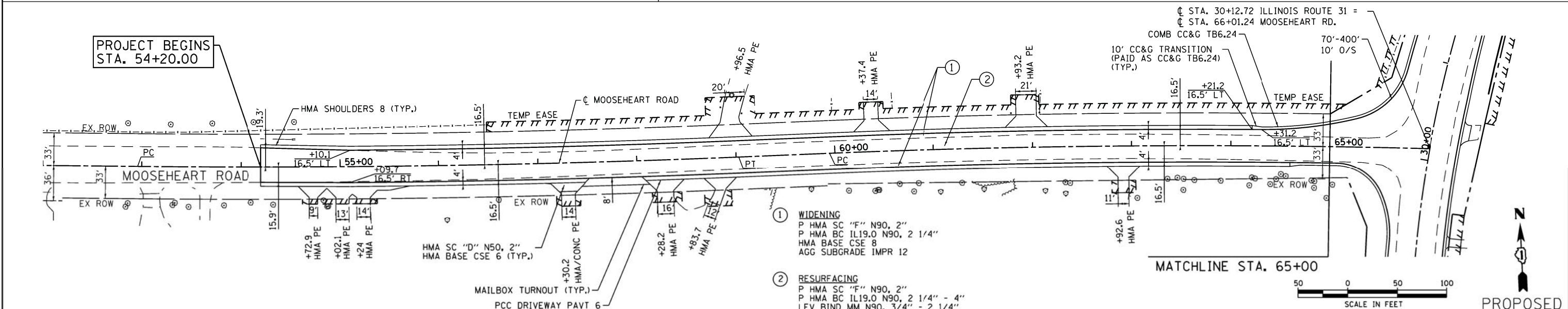


**LEGEND:**

	HOT-MIX ASPHALT SURFACE REMOVAL - 2"		COMBINATION CURB & GUTTER REMOVAL		TREE TRUNK PROTECTION
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		TREE REMOVAL (WITH SIZE)	RP	TREE ROOT PRUNING
	DRIVEWAY PAVEMENT REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL - VARIABLE DEPTH (0.5"-2")	TP	TREE PRUNING

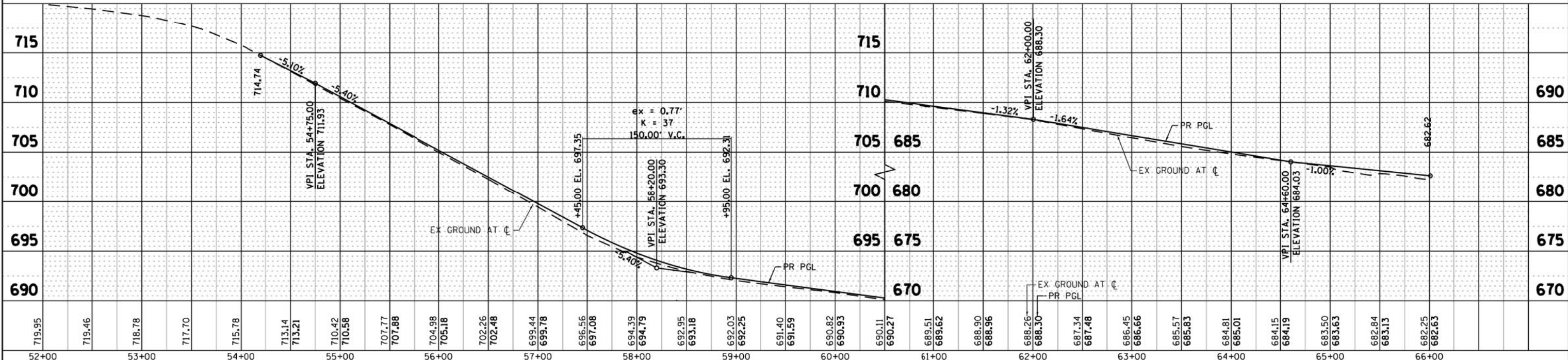
**NOTES:**

- SEE DRAINAGE AND UTILITY PLANS FOR RELATED REMOVALS
- REFER TO PLAT OF HIGHWAYS FOR RIGHT OF WAY INFORMATION



**① WIDENING**  
 P HMA SC "F" N90, 2"  
 P HMA BC IL19.0 N90, 2 1/4"  
 HMA BASE CSE 8  
 AGG SUBGRADE IMPR 12

**② RESURFACING**  
 P HMA SC "F" N90, 2"  
 P HMA BC IL19.0 N90, 2 1/4" - 4"  
 LEV BIND MM N90, 3/4" - 2 1/4"



HRGreen.com 1500 Professional Design Firm # 154-01122	USER NAME = sperna FILE NAME = 86100196.14-prp-02.dgn PLOT SCALE = 1"=50' PLOT DATE = 7/27/2012	DESIGNED - C. HARTKE DRAWN - S. PERNA CHECKED - T. HAMILTON DATE - 7/20/2012	REVISED - REVISED - S. LIPKIE 7/2012 REVISED - C. HARTKE 8/3/2012 REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN AND PROFILE</b> <b>MOOSEHEART ROAD</b> SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 54+20.00 TO STA. 65+00.00	F.A. RTE. 3887 SECTION AR-N-2 COUNTY KANE TOTAL SHEETS 85 SHEET NO. 21 CONTRACT NO. 60P65 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
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**MAINTENANCE OF TRAFFIC GENERAL NOTES**

ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. ALL TEMPORARY PAVEMENT MARKINGS & TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AT THE BEGINNING OF EACH STAGE, AND SHALL BE MAINTAINED FOR THE DURATION OF THAT STAGE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

A MINIMUM OF TWO (2) ELEVEN FOOT (11') LANES, ONE IN EACH DIRECTION, SHALL BE KEPT OPEN TO TRAFFIC ON MOOSEHEART ROAD AND IL ROUTE 31.

ALL PAVEMENT MARKINGS CONFLICTING WITH STAGED TRAFFIC PATTERNS SHALL BE REMOVED. TYPE III MARKING TAPE SHALL BE USED ON THE FINAL WEARING SURFACE OR ON THE EXISTING PAVEMENT TO REMAIN WHEN THE TEMPORARY PAVEMENT MARKING WILL CONFLICT WITH THE PERMANENT PAVEMENT MARKING SUCH AS ON TAPERS OR LANE SHIFTS. PAVEMENT MARKING PAINT SHALL BE USED ON ALL SURFACES TO BE REMOVED OR COVERED WITH SURFACE COURSE.

ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING CONSTRUCTION OPERATIONS WITH THE USE OF AGGREGATE FOR TEMPORARY ACCESS AND/OR BY CONSTRUCTING ONE HALF OF PROPOSED DRIVEWAYS AT A TIME.

PROVIDE TEMPORARY HMA RAMP WEDGE TO TRANSITION THE DIFFERENTIAL ELEVATIONS CAUSED BY STAGED CONSTRUCTION BETWEEN THE NEW CONSTRUCTION AND THE EXISTING PAVEMENT. ANY PAVEMENT DROP-OFFS GREATER THAN 3 INCHES IMMEDIATELY ADJACENT TO TRAFFIC SHALL NOT BE LEFT OVERNIGHT. PROVIDE TEMPORARY HMA RAMP WEDGE OR OTHER MITIGATING MEASURES APPROVED BY THE ENGINEER.

THE FOLLOWING TABLE PROVIDES THE SUGGESTED TREATMENT REQUIRED BY THE CONTRACTOR TO MINIMIZE DROP-OFF EXPOSURE:

**DROP-OFF AT EDGE OF PAVEMENT**

DROP-OFF LOCATION (FROM EDGE OF PAVEMENT)	SPEED MPH (5)	DROP-OFF HEIGHT AND TYPE (INCHES)	TREATMENT REQUIRED
<= 3 FT (1) (2)	ALL	<= 1	NONE
		> 1, <= 3	LOW SHOULDER SIGNS (AFTER EACH INTERSECTION)
	< 45	> 3, <= 18	CHANNELIZING DEVICES PER PLAN SPACING
		> 18, <= 24 FOR <0.5 MILES OR <48 HOURS	CHANNELIZING DEVICES PER PLAN SPACING (4)
	ALL	> 18, <= 24	ADJACENT LANE CLOSURE
ALL	> 24	ADJACENT LANE CLOSURE	
> 3 FT	ALL	<= 1	NONE
<= 8 FT (3)	ALL	> 1, <= 3	LOW SHOULDER SIGNS (2 MILE SPACING)
		> 3, <= 24	CHANNELIZING DEVICES PER PLAN SPACING
		> 24	TEMPORARY BARRIER WALL
> 8 FT TO 13 FT (3)	ALL	> 12, <= 24	CHANNELIZING DEVICES PER PLAN SPACING
		> 24	TEMPORARY BARRIER WALL

CHANNELIZING DEVICES ARE TO BE PLACED AT SAME LEVEL AS TRAVELING LANE OR SHOULDER PROFILE.

CHANNELIZING DEVICES MAY BE PLACED AT THE DROP-OFF ELEVATION TO PRESERVE LAVE WIDTH. THE REFLECTIVE AREA AND WARNING LIGHT SHALL BE RAISED TO THE ELEVATION ABOVE THE TRAVELING LANE OR SHOULDER PROFILE AS REQUIRED BY STANDARD 701901.

CHANNELIZING DEVICES ARE TO BE PLACED AT THE SAME LEVEL AS SIDE SLOPE PROFILE TO BE FULLY VISIBLE.

DROP-OFFS GREATER THAN 18 IN. SHALL NOT BE EXPOSED TO TRAFFIC FOR GREATER THAN 48 HRS. ADDITIONALLY, PYLONS OF FLASHING LIGHTS SHALL BE PLACED AT DROP-OFFS GREATER THAN 18 IN.

THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARDS AND AS DIRECTED BY THE ENGINEER.

TYPE II BARRICADES EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS SHALL BE PLACED ALONG THE ROADWAY AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TYPE II BARRICADES WITH DIRECTIONAL ARROWS SHALL BE PLACED AT LANE SHIFTS (TAPER SECTIONS) AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER. BARRICADES WITH LEG EXTENSIONS SHALL BE USED WHERE NEEDED TO PROVIDE A MINIMUM DISTANCE OF 36" BETWEEN THE PAVEMENT AND TOP OF BARRICADE. BARRICADES IN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS. ALL TYPE II BARRICADES SHALL BE NON-METALLIC.

THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGES IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.

TEMPORARY SIGNING, AS SHOWN, SHALL CONFORM TO THE APPLICABLE STANDARDS INCLUDED IN THE SPECIAL PROVISIONS AND CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

ALL "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS.

ROAD NAME PLATES SHALL BE INSTALLED ON "ROAD CONSTRUCTION AHEAD" SIGNS AT INTERSECTIONS SHOWN ON THE PLANS.

EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION, ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED SIGNS CAUSED BY HIS WORK SHALL BE REPLACED BY THE CONTRACTOR.

TRAFFIC CONTROL DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS IS THE MINIMUM REQUIREMENT. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER.

**SEQUENCE OF CONSTRUCTION**

**STAGE 1**  
TRAFFIC MAINTAINED ON EXISTING PAVEMENT DURING STAGE 1 CONSTRUCTION

MAINTENANCE OF TRAFFIC  
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS IN ACCORDANCE WITH IDOT STANDARD 701606 FOR ILLINOIS ROUTE 31 AND IDOT STANDARD 701501 FOR MOOSEHEART ROAD.  
MAINTAIN TRAFFIC AT INTERSECTION CONSTRUCTION IN ACCORDANCE WITH IDOT STANDARD 701701.  
MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH "TEMPORARY ACCESS" (EACH).

CONSTRUCTION  
CONSTRUCTION TO BE PERFORMED ON THE EAST SIDE OF ILLINOIS ROUTE 31 AND THE NORTH SIDE OF MOOSEHEART ROAD.  
1. INSTALL PROPOSED STORM SEWER AND GRADE DITCHES IN WORK ZONES.  
2. CONSTRUCT PROPOSED RETAINING WALL ALONG EAST SIDE OF ILLINOIS ROUTE 31.  
3. CONSTRUCT PROPOSED COMBINATION CONCRETE CURB & GUTTER ALONG EAST SIDE OF ILLINOIS ROUTE 31 AND NORTH SIDE OF MOOSEHEART ROAD.  
4. CONSTRUCT PROPOSED HMA BASE COURSE AND POLYMERIZED HMA BINDER COURSE ON EAST SIDE OF ILLINOIS ROUTE 31 AND NORTH SIDE OF MOOSEHEART ROAD.  
5. CONSTRUCT HMA SHOULDERS ON NORTH SIDE OF MOOSEHEART ROAD.  
6. RECONSTRUCT DRIVEWAYS AND ENTRANCES.  
7. EARTHWORK AND GRADING OF WORK ZONE AREAS.

**STAGE 2**  
TRAFFIC MAINTAINED ON EXISTING PAVEMENT ON ILLINOIS ROUTE 31 AND BOTH EXISTING AND PROPOSED PAVEMENT ON MOOSEHEART ROAD DURING STAGE 2 CONSTRUCTION.

MAINTENANCE OF TRAFFIC  
PERFORM HOT-MIX ASPHALT SURFACE REMOVAL - SPECIAL ALONG WESTBOUND MOOSEHEART ROAD.  
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS IN ACCORDANCE WITH IDOT STANDARD 701606 FOR ILLINOIS ROUTE 31 AND IDOT STANDARD 701501 FOR MOOSEHEART ROAD.  
MAINTAIN TRAFFIC AT INTERSECTION CONSTRUCTION IN ACCORDANCE WITH IDOT STANDARD 701701.  
MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH "TEMPORARY ACCESS" (EACH).

CONSTRUCTION  
CONSTRUCTION TO BE PERFORMED ON THE WEST SIDE OF ILLINOIS ROUTE 31 AND THE SOUTH SIDE OF MOOSEHEART ROAD.  
1. INSTALL PROPOSED STORM SEWER AND GRADE DITCHES IN WORK ZONES.  
2. CONSTRUCT PROPOSED COMBINATION CONCRETE CURB & GUTTER ALONG WEST SIDE OF ILLINOIS ROUTE 31.  
3. CONSTRUCT PROPOSED HMA BASE COURSE AND POLYMERIZED HMA BINDER COURSE ON WEST SIDE OF ILLINOIS ROUTE 31 AND SOUTH SIDE OF MOOSEHEART ROAD.  
4. CONSTRUCT HMA SHOULDERS ON SOUTH SIDE OF MOOSEHEART ROAD.  
5. RECONSTRUCT DRIVEWAYS AND ENTRANCES.  
6. EARTHWORK AND GRADING OF WORK ZONE AREAS.

**STAGE 3**  
TRAFFIC MAINTAINED ON EXISTING AND PROPOSED PAVEMENT DURING STAGE 3 CONSTRUCTION

MAINTENANCE OF TRAFFIC  
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS IN ACCORDANCE WITH IDOT STANDARD 701606 FOR ILLINOIS ROUTE 31 AND IDOT STANDARD 701501 FOR MOOSEHEART ROAD.  
MAINTAIN TRAFFIC AT INTERSECTION CONSTRUCTION IN ACCORDANCE WITH IDOT STANDARD 701701.  
MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH "TEMPORARY ACCESS" (EACH).  
LANE CLOSURES SHALL ONLY OCCUR DURING DAYTIME OPERATIONS.

CONSTRUCTION  
CONSTRUCTION TO BE PERFORMED ON ILLINOIS ROUTE 31 AND MOOSEHEART ROAD.  
1. PERFORM HOT-MIX ASPHALT SURFACE REMOVAL - VARIABLE DEPTH AND HOT-MIX ASPHALT SURFACE REMOVAL - 2" ON ILLINOIS ROUTE 31 AND MOOSEHEART ROAD.  
2. OVERLAY ILLINOIS ROUTE 31 AND MOOSEHEART ROAD WITH PROPOSED POLYMERIZED BINDER COURSE AND LEVELING BINDER.  
3. OVERLAY EXISTING AND WIDENED AREAS OF ILLINOIS ROUTE 31 AND MOOSEHEART ROAD WITH POLYMERIZED SURFACE COURSE.  
4. INSTALL PROPOSED TRAFFIC SIGNALS.  
5. FINAL GRADING OF PARKWAY LANDSCAPE RESTORATIONS.

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 PROJECT CONTACT: HRGreen  
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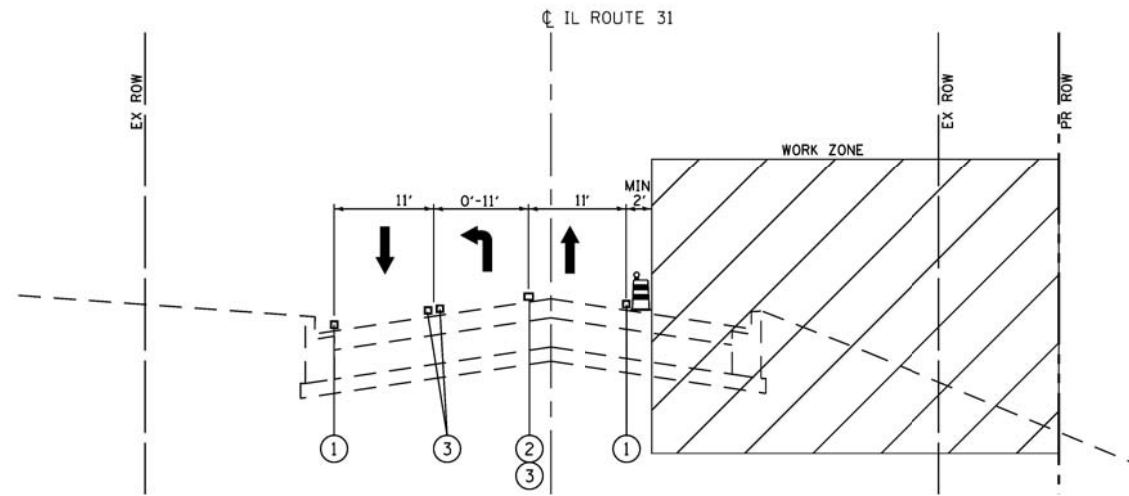


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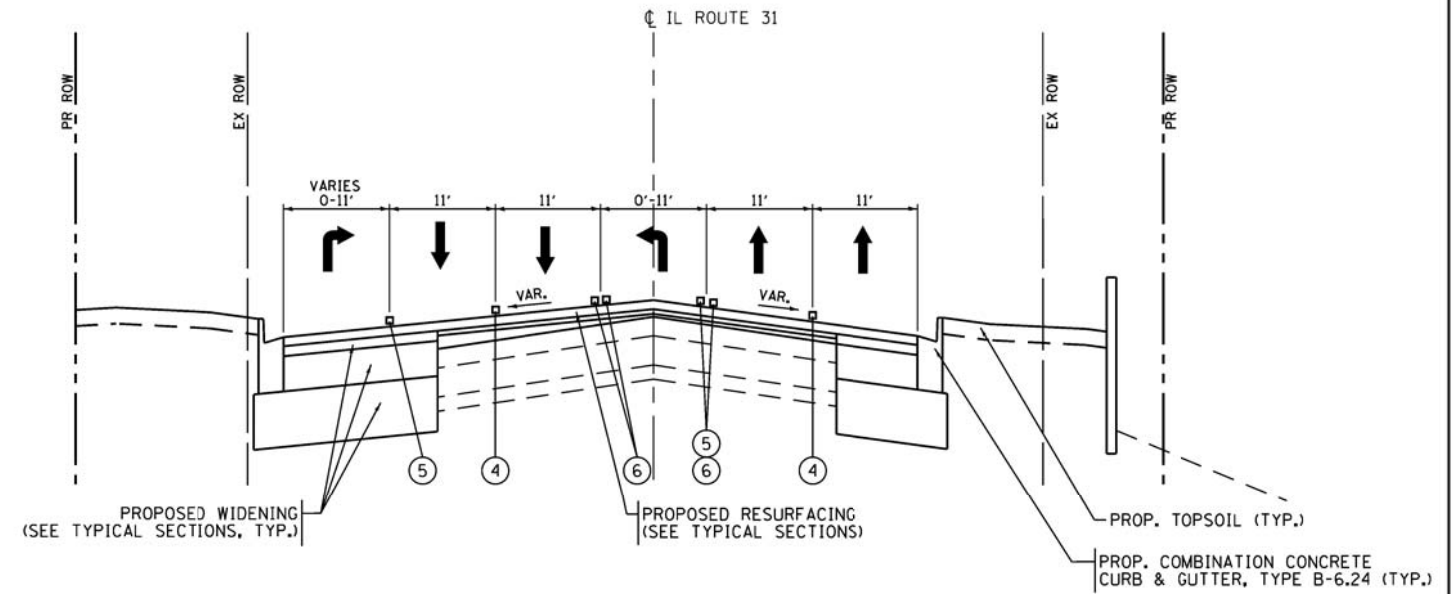
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUGGESTED MAINTENANCE OF TRAFFIC GENERAL NOTES</b>	
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STA.	TO STA.

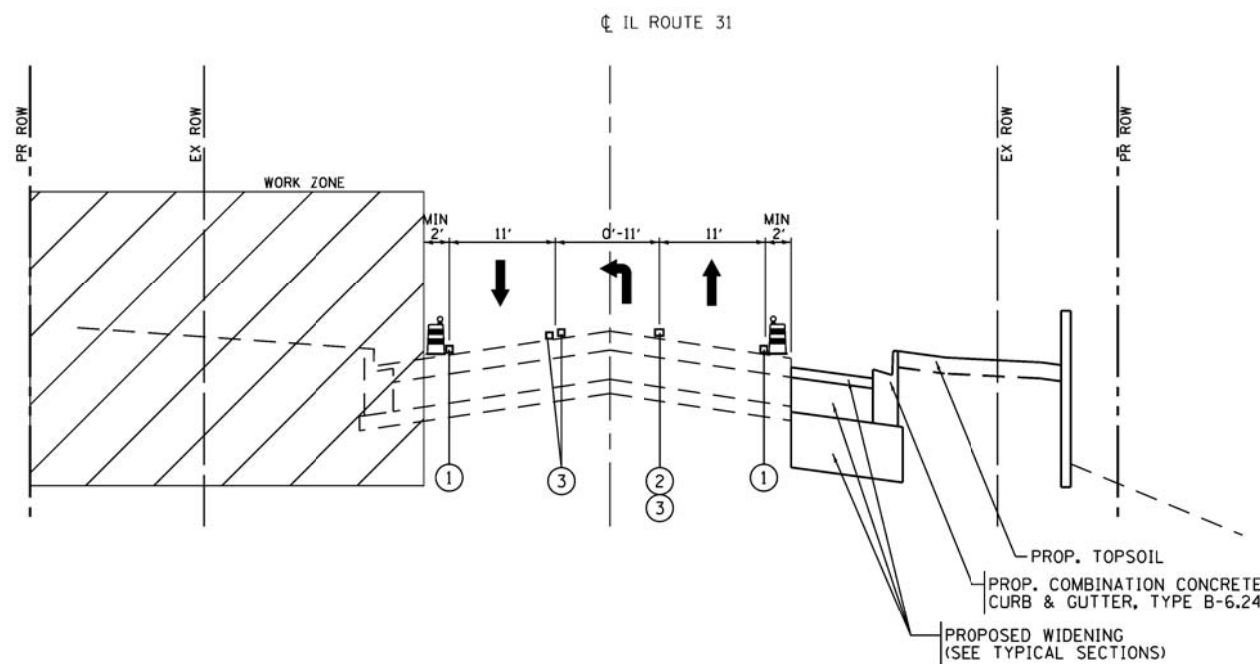
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	22
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



ILLINOIS ROUTE 31  
STA. 20+06.52 TO STA. 37+07.00  
PROPOSED WIDENING  
STAGE 1



ILLINOIS ROUTE 31  
STA. 23+46.39 TO STA. 34+81.54  
PROPOSED RESURFACING  
STAGE 3



ILLINOIS ROUTE 31  
STA. 18+72.00 TO STA. 39+63.00  
PROPOSED WIDENING  
STAGE 2

**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY TANGENTS, 25 FT CENTERS ALONG TAPERS, AND 10 FT CENTERS ALONG RADII
- ① TEMPORARY PAVEMENT MARKING - 4" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
- ④ PERMANENT PAVEMENT MARKING - 4" (WHITE)
- ⑤ PERMANENT PAVEMENT MARKING - 6" (WHITE)
- ⑥ PERMANENT PAVEMENT MARKING - 4" (YELLOW)
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

**NOTE**

SEE PAVEMENT MARKING PLAN FOR FURTHER DETAILS ON FINAL STRIPING.

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PROJECT CONTACT:  
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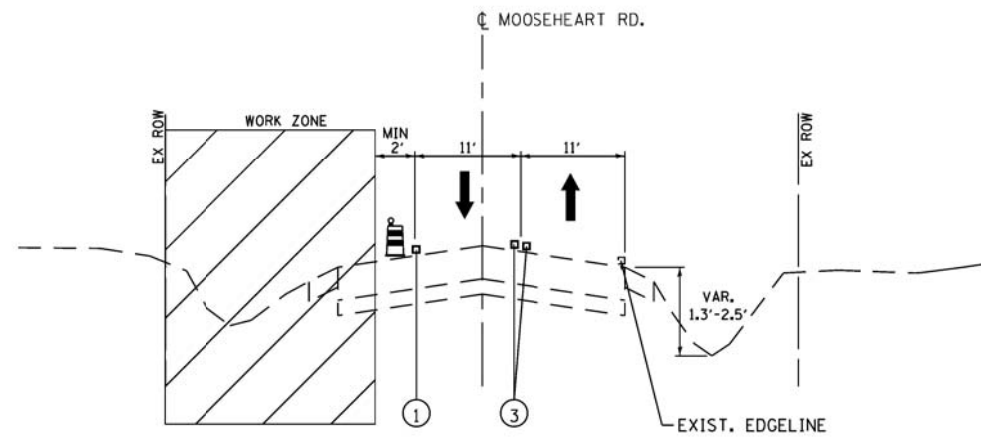
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

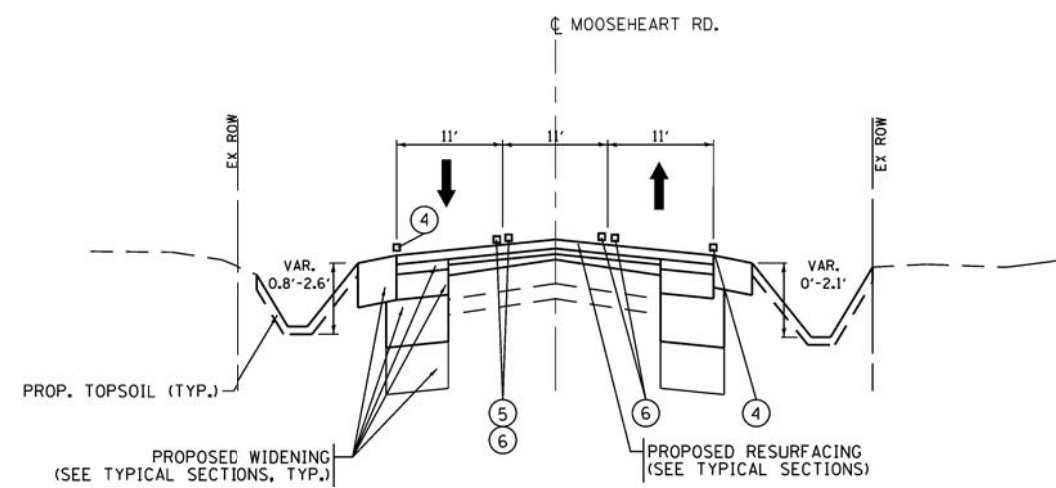
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TYPICAL SECTIONS**

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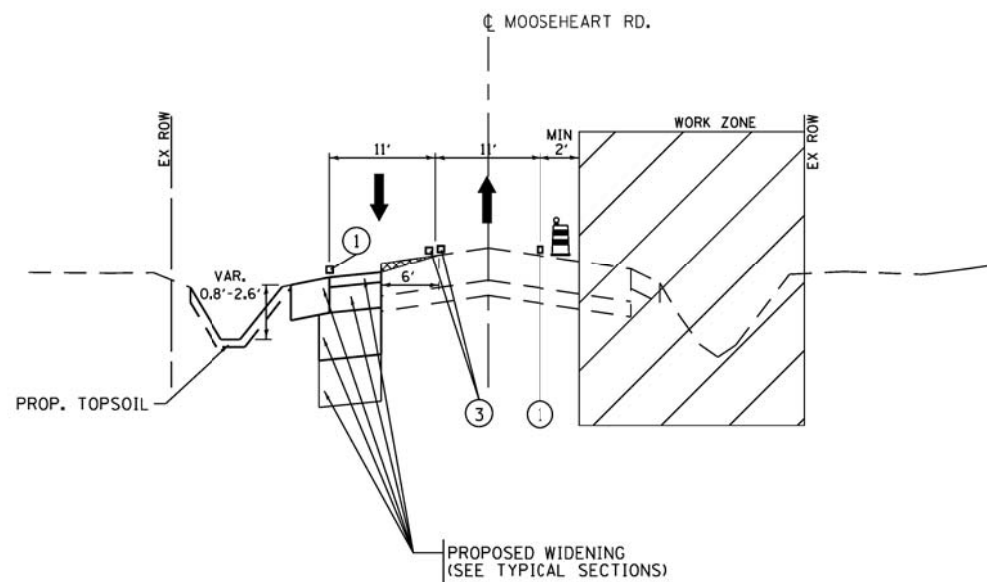
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CONTRACT NO. 60P65				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



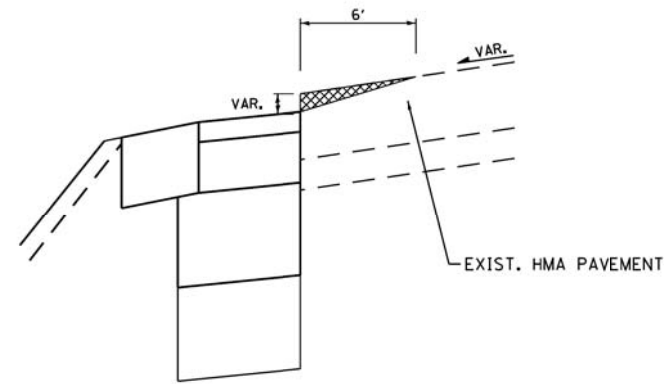
**MOOSEHEART ROAD**  
 STA. 51+25.00 TO STA. 66+01.24  
 PROPOSED WIDENING  
 STAGE 1



**MOOSEHEART ROAD**  
 STA. 54+20.00 TO STA. 66+01.24  
 PROPOSED RESURFACING  
 STAGE 3



**MOOSEHEART ROAD**  
 STA. 51+25.00 TO STA. 66+01.24  
 PROPOSED WIDENING  
 STAGE 2



**HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL**

• NOTE: THERE SHALL BE NO DROP OFF BETWEEN EXISTING AND PROPOSED PAVEMENTS. CONTRACTOR SHALL PLACE BINDER UP TO EXISTING PAVEMENT ELEVATION OR MILL EXISTING PAVEMENT TO REMOVE ANY GRADE DIFFERENTIAL.

**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY TANGENTS, 25 FT CENTERS ALONG TAPERS, AND 10 FT CENTERS ALONG RADII
- ① TEMPORARY PAVEMENT MARKING - 4" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
- ④ PERMANENT PAVEMENT MARKING - 4" (WHITE)
- ⑤ PERMANENT PAVEMENT MARKING - 6" (WHITE)
- ⑥ PERMANENT PAVEMENT MARKING - 4" (YELLOW)
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

**NOTE**  
 SEE PAVEMENT MARKING PLAN FOR FURTHER DETAILS ON FINAL STRIPING.

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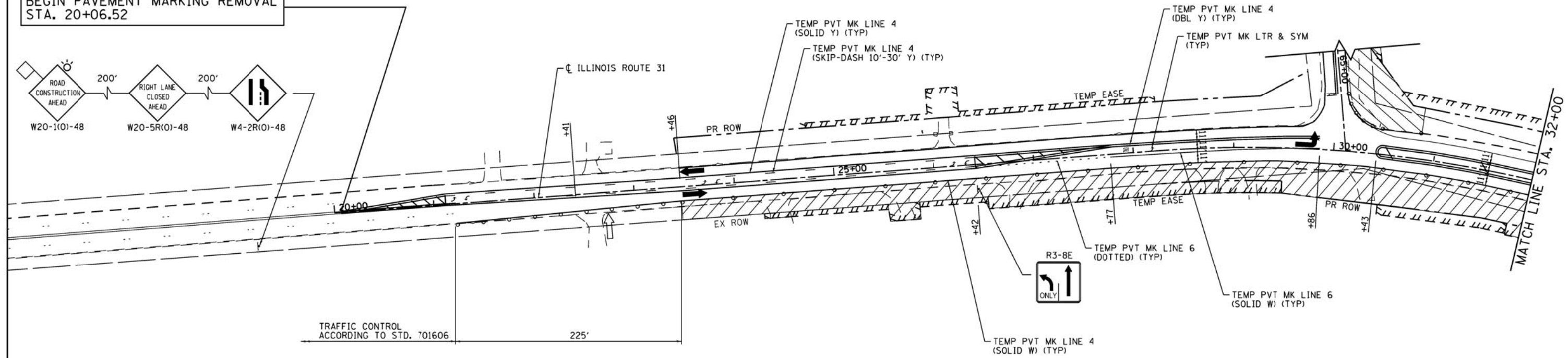
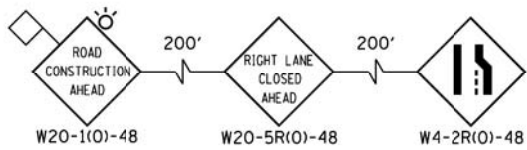
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PLOT DATE = 6/26/2012	DATE - 6/26/12	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SUGGESTED MAINTENANCE OF TRAFFIC TYPICAL SECTIONS	
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STA.	TO STA.

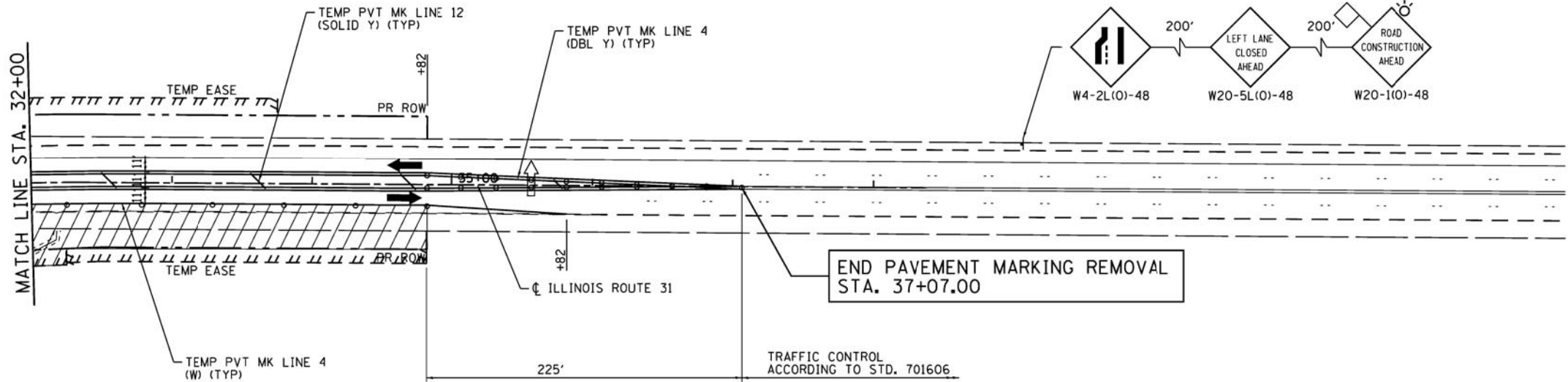
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	

BEGIN PAVEMENT MARKING REMOVAL  
STA. 20+06.52



TRAFFIC CONTROL  
ACCORDING TO STD. 701606

225'



END PAVEMENT MARKING REMOVAL  
STA. 37+07.00

TRAFFIC CONTROL  
ACCORDING TO STD. 701606

225'

**LEGEND:**

- WORK ZONE
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
- DIRECTION OF TRAFFIC
- ARROW BOARD
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY TANGENTS, 25 FT CENTERS ALONG TAPERES, AND 10 FT CENTERS ALONG RADII



COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNAL  
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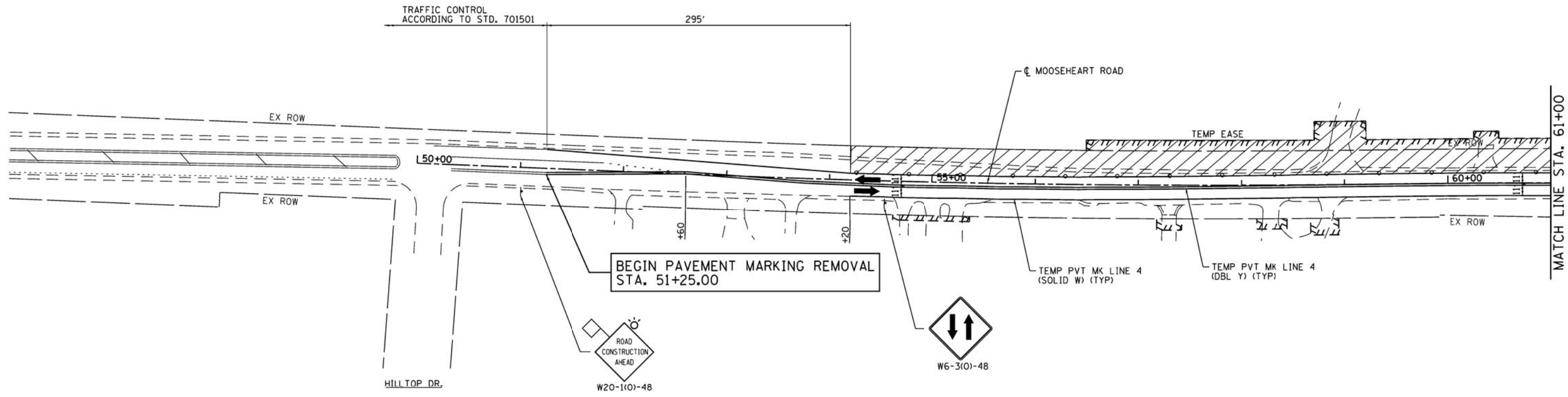
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PLOT DATE = 6/27/2012	DATE - 6/27/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SUGGESTED MAINTENANCE OF TRAFFIC  
ILLINOIS ROUTE 31 STAGE 1**

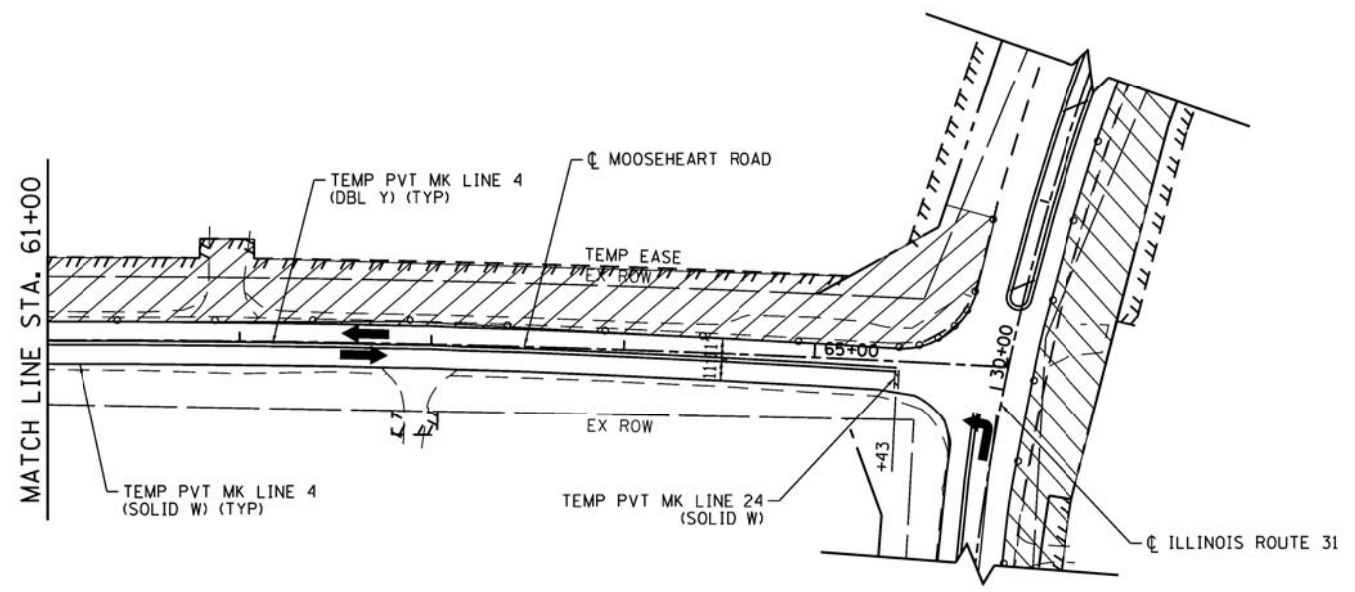
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	25
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	



**LEGEND:**

	WORK ZONE		TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY TANGENTS, 25 FT CENTERS ALONG TAPERS, AND 10 FT CENTERS ALONG RADII
	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL		DIRECTION OF TRAFFIC
	ARROW BOARD		



COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNAL  
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PLOT DATE = 6/27/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 6/27/12	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC  
 MOOSEHEART ROAD STAGE 1**

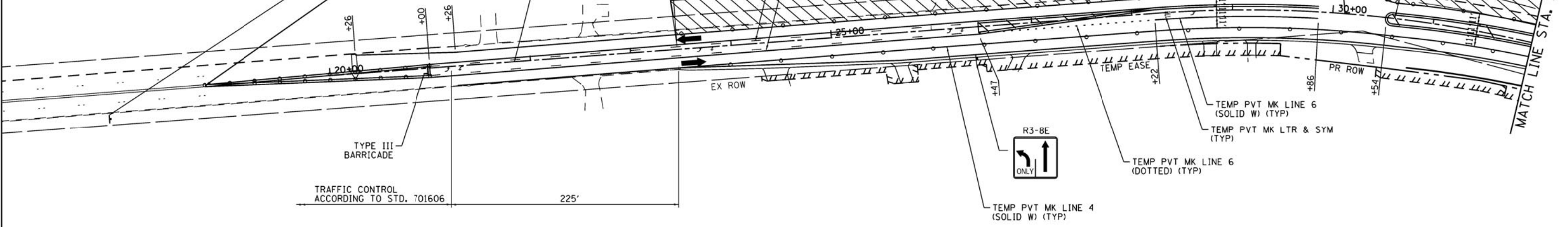
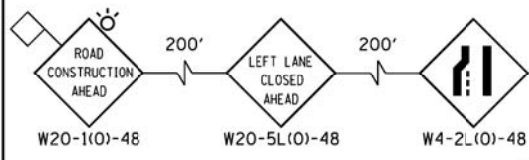
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	26
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	

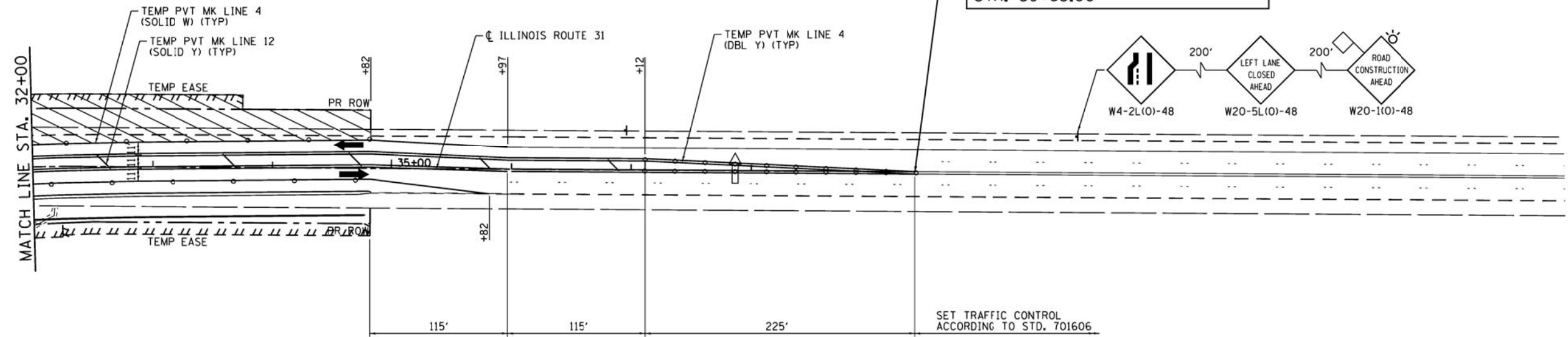




BEGIN PAVEMENT MARKING REMOVAL  
STA. 18+72.00



END PAVEMENT MARKING REMOVAL  
STA. 39+63.00



**LEGEND:**

	WORK ZONE		TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY TANGENTS, 25 FT CENTERS ALONG TAPERS, AND 10 FT CENTERS ALONG RADII
	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL		DIRECTION OF TRAFFIC
	ARROW BOARD		



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
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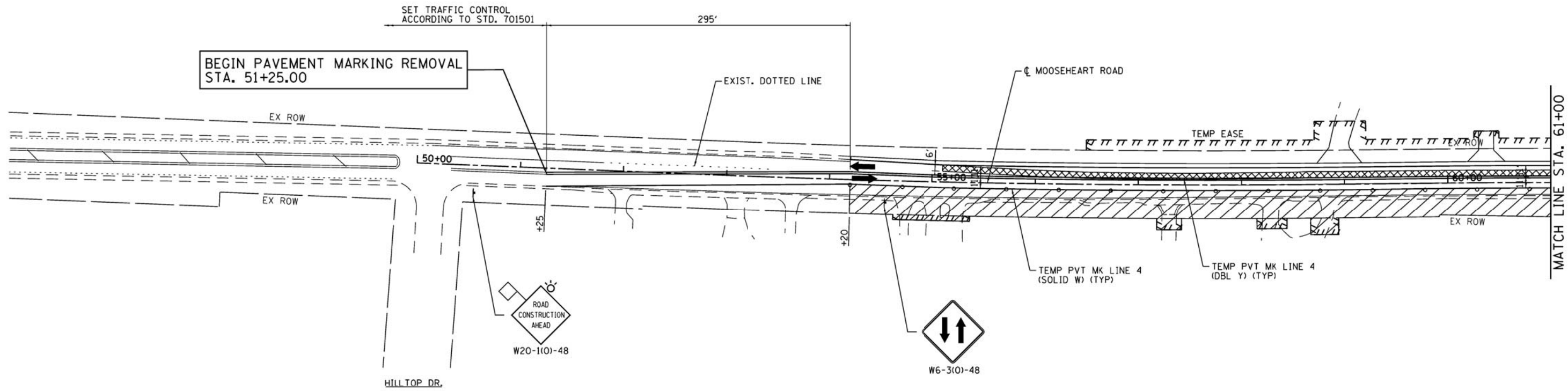
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PLOT DATE = 6/27/2012	DATE - 6/27/12	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SUGGESTED MAINTENANCE OF TRAFFIC  
 ILLINOIS ROUTE 31 STAGE 2**

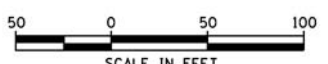
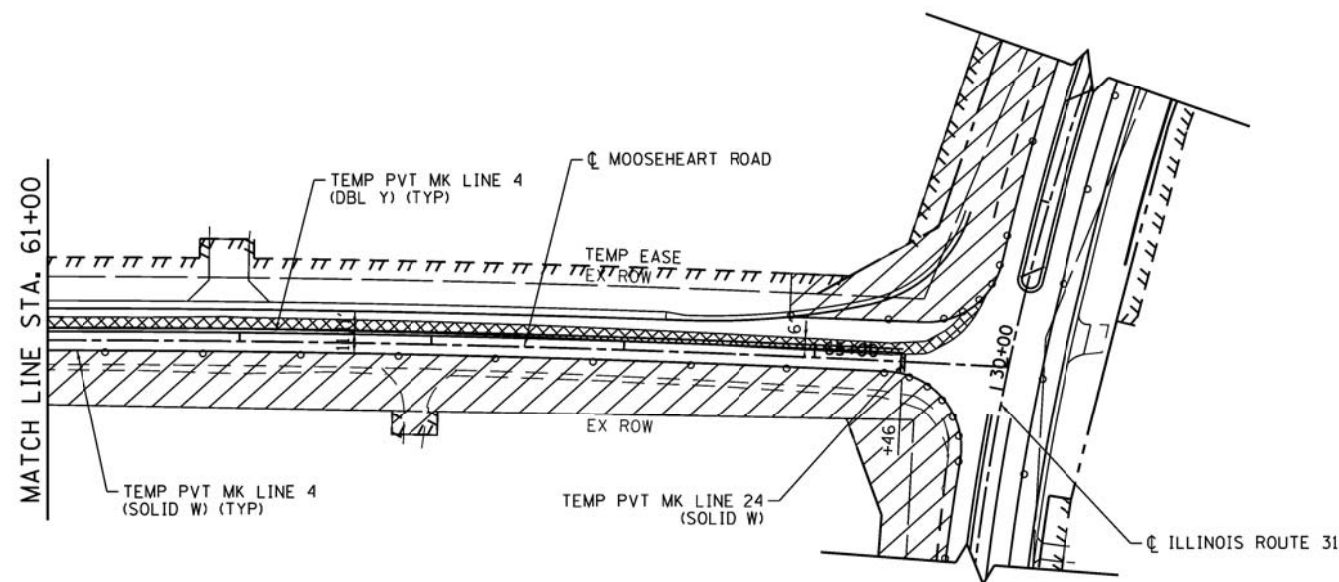
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	27
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	



**LEGEND:**

- WORK ZONE
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
- DIRECTION OF TRAFFIC
- ARROW BOARD
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY TANGENTS, 25 FT CENTERS ALONG TAPERS, AND 10 FT CENTERS ALONG RADII



COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNAL  
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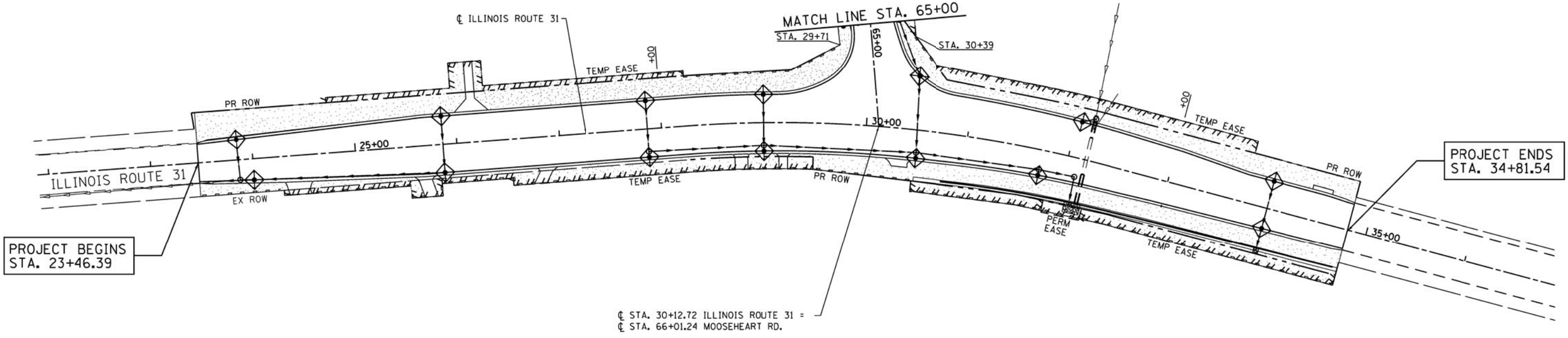


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PLOT DATE = 6/27/2012	CHECKED - T. HAMILTON	REVISED -
	DATE - 6/27/12	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SUGGESTED MAINTENANCE OF TRAFFIC MOOSEHEART ROAD STAGE 2</b>	
SCALE: 1"=50'	SHEET NO. 7 OF 7 SHEETS
STA. 51+25.00 TO STA. 66+01.24	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	28
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	



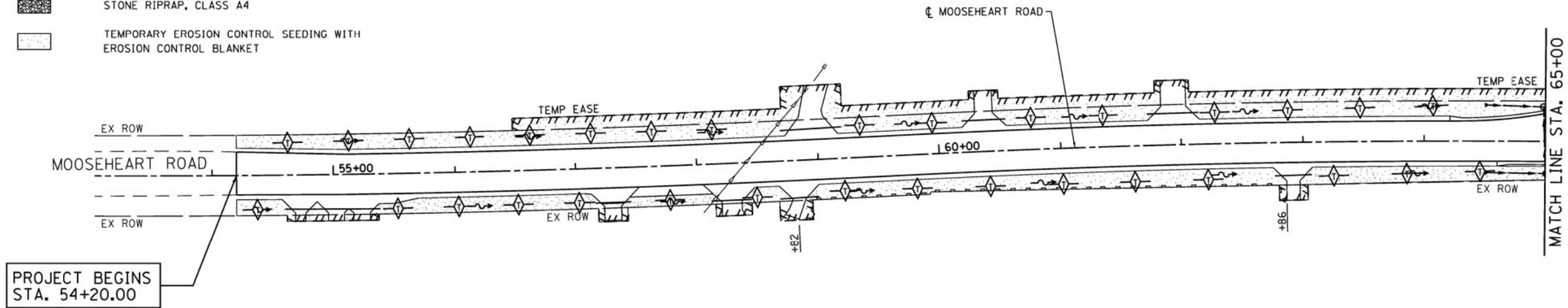
PROJECT BEGINS  
STA. 23+46.39

PROJECT ENDS  
STA. 34+81.54

☉ STA. 30+12.72 ILLINOIS ROUTE 31 =  
☉ STA. 66+01.24 MOOSEHEART RD.

**LEGEND**

- PERIMETER EROSION BARRIER (FT)
- INLET FILTERS (EA)
- TEMPORARY DITCH CHECK (FT)
- STONE RIPRAP, CLASS A4
- TEMPORARY EROSION CONTROL SEEDING WITH EROSION CONTROL BLANKET



PROJECT BEGINS  
STA. 54+20.00

MATCH LINE STA. 65+00



COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNAL  
 DATE PLOTTED: 6/26/2012 2:28:12 PM  
 FILE NAME: 8610019614-eros.dgn  
 PLOT DRIVER: paf.plt  
 PEN TABLE: standard-trans.tbl



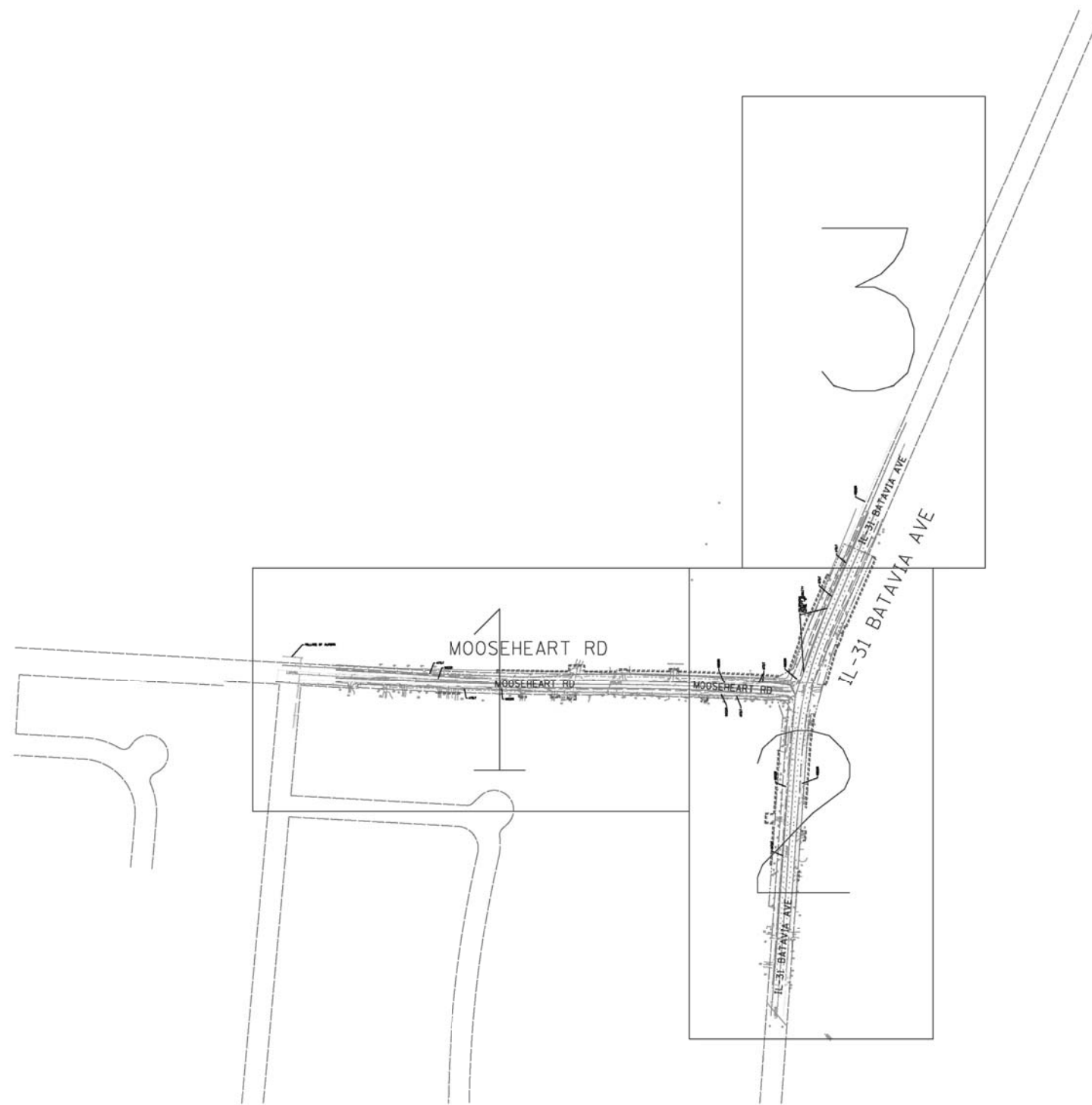
USER NAME = spernal	DESIGNED - C. HARTKE	REVISED -
	DRAWN - S. PERNAL	REVISED -
PLOT SCALE = 1"=50'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 6/26/2012	DATE - 6/26/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. BEG TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	29
CONTRACT NO.			60P65	
ILLINOIS FED. AID PROJECT				



- A — A — AERIAL UTILITY
- UNKNOWN — UNKNOWN
- CTV — CTV — CABLE TV
- T — T — TELEPHONE
- G — G — GAS
- E — E — ELECTRIC
- W — W — WATER
- FO — FO — FIBER OPTIC
- S — S — SEWER
- ⊕ TBE TEST HOLE

**UTILITY OWNERS**  
 At&T = TELEPHONE  
 VILLAGE OF AURORA = WATER  
 NICOR = GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed from 2/15/12 through 2/24/12. Changes to utilities after 2/24/12 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B"  
 UNLESS NOTED OTHERWISE.



TBE Job No. IL09510467  
 SUE Plan Page: COVER

COMPANY NAME:   
 PROJECT CONTACT:   
 DATE PLOTTED: 6/26/2012 10:55:40 PM   
 FILE NAME: 8610019614-sue-01.dwg   
 PLOT DRIVER: pdfcpl   
 PEN TABLE: standard-trans.tbl

Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/Test Holes not Visually Verified  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

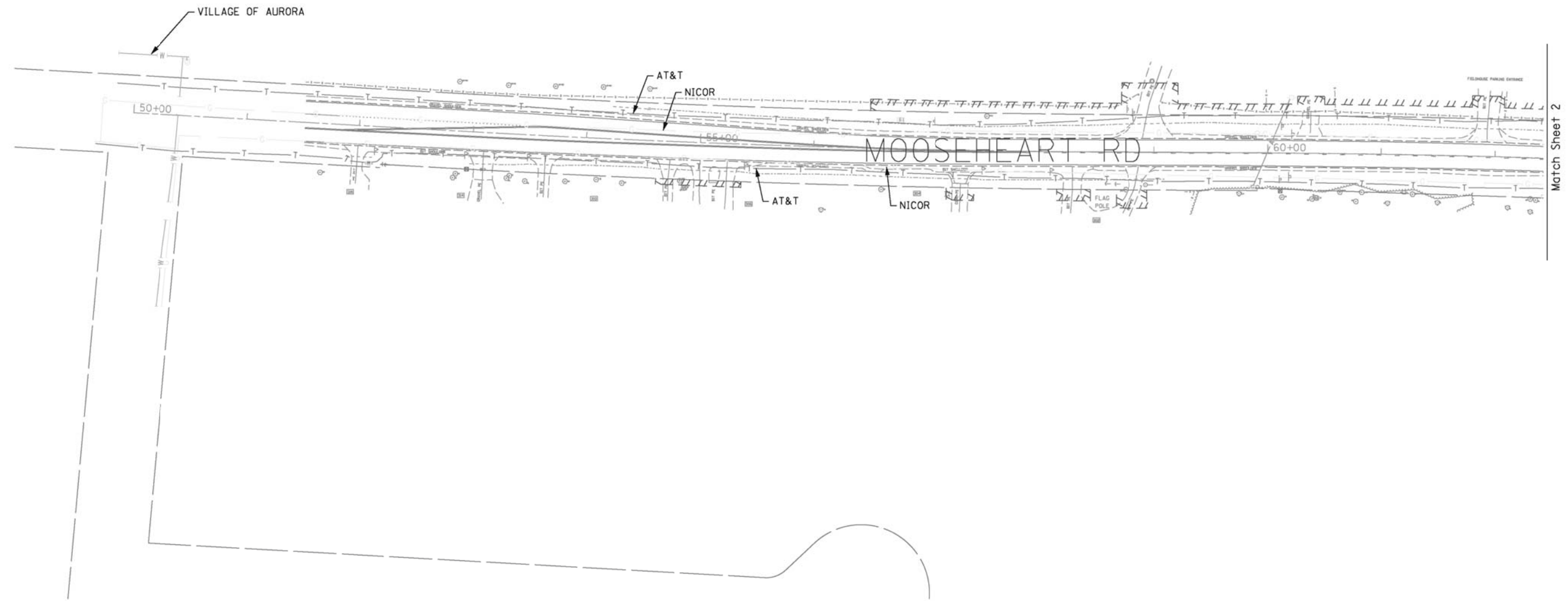
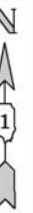
DESIGNED	EJ	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	3/01/12	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 31 Mooseheart Road**  
**North Aurora, IL**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	30
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.			Contract No. 60P65	





- A — A — AERIAL UTILITY
- CTV — CTV — CABLE TV
- T — T — TELEPHONE
- G — G — GAS
- E — E — ELECTRIC
- W — W — WATER
- FO — FO — FIBER OPTIC
- S — S — SEWER
- ⊕ — ⊕ — TBE TEST HOLE

**UTILITY OWNERS**  
 AT&T = TELEPHONE  
 VILLAGE OF AURORA = WATER  
 NICOR = GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed from 2/15/12 through 2/24/12. Changes to utilities after 2/24/12 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510467  
 SUE Plan Page: 1 of 3

COMPANY NAME:   
 PROJECT CONTACT:   
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 PLOT DRIVER: pdfplot   
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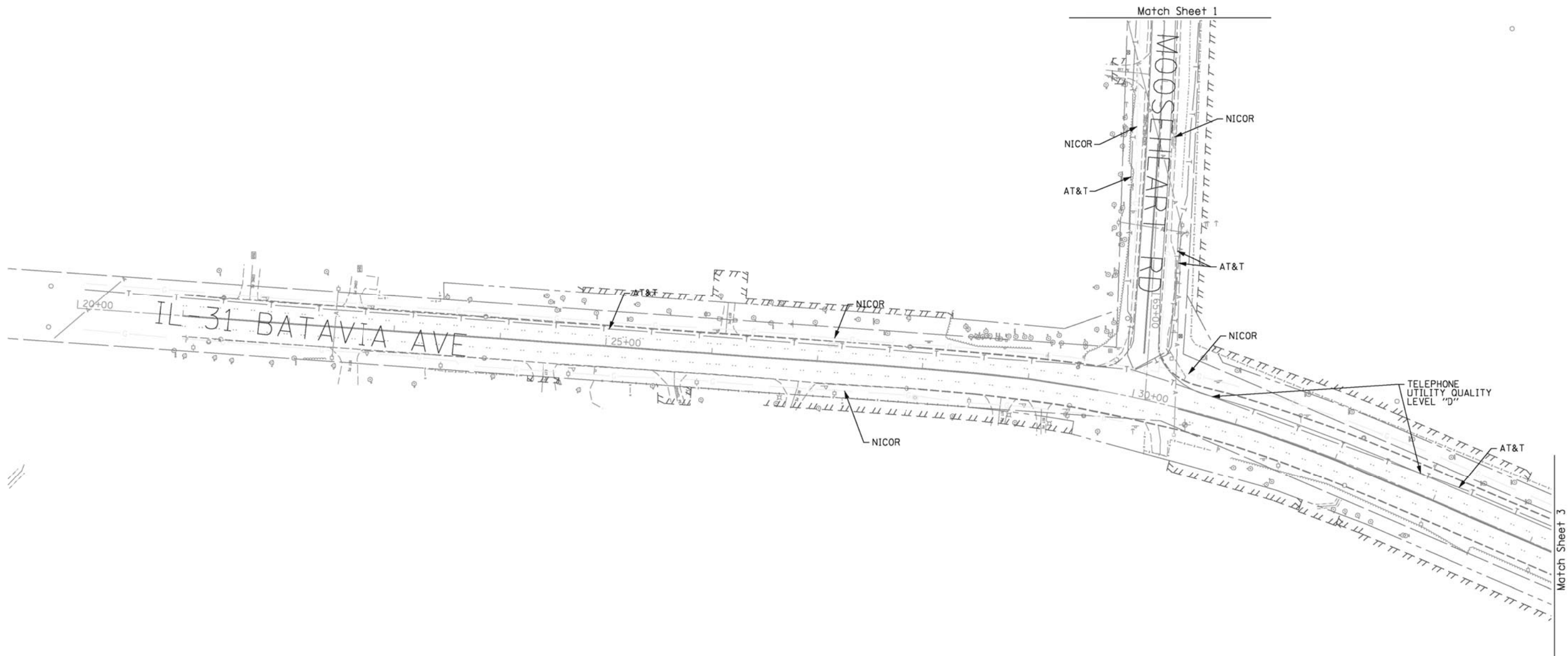
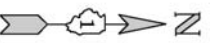
Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/Test Holes not Visually Verified  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

DESIGNED	EJ	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	3/01/12	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 31 Mooseheart Road**  
**North Aurora, IL**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	31
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.			Contract No. 60P65	

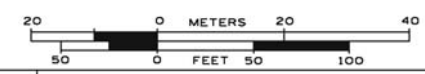


— A — A —	AERIAL UTILITY
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
— S — S —	SEWER
— T — T —	TBE TEST HOLE

UTILITY OWNERS	
At&T = TELEPHONE	
VILLAGE OF AURORA = WATER	
NICOR = GAS	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed from 2/15/12 through 2/24/12. Changes to utilities after 2/24/12 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510467  
SUE Plan Page: 2 of 3

COMPANY NAME: standard-trans,bl  
PROJECT CONTACT: standard-trans,bl  
DATE PLOTTED: 6/26/2012 10:16:38 PM  
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PLOT DRIVER: pdf,cal  
PEN TABLE:

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Utility Quality Level "B" : Designating/Test Holes not Visually Verified
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

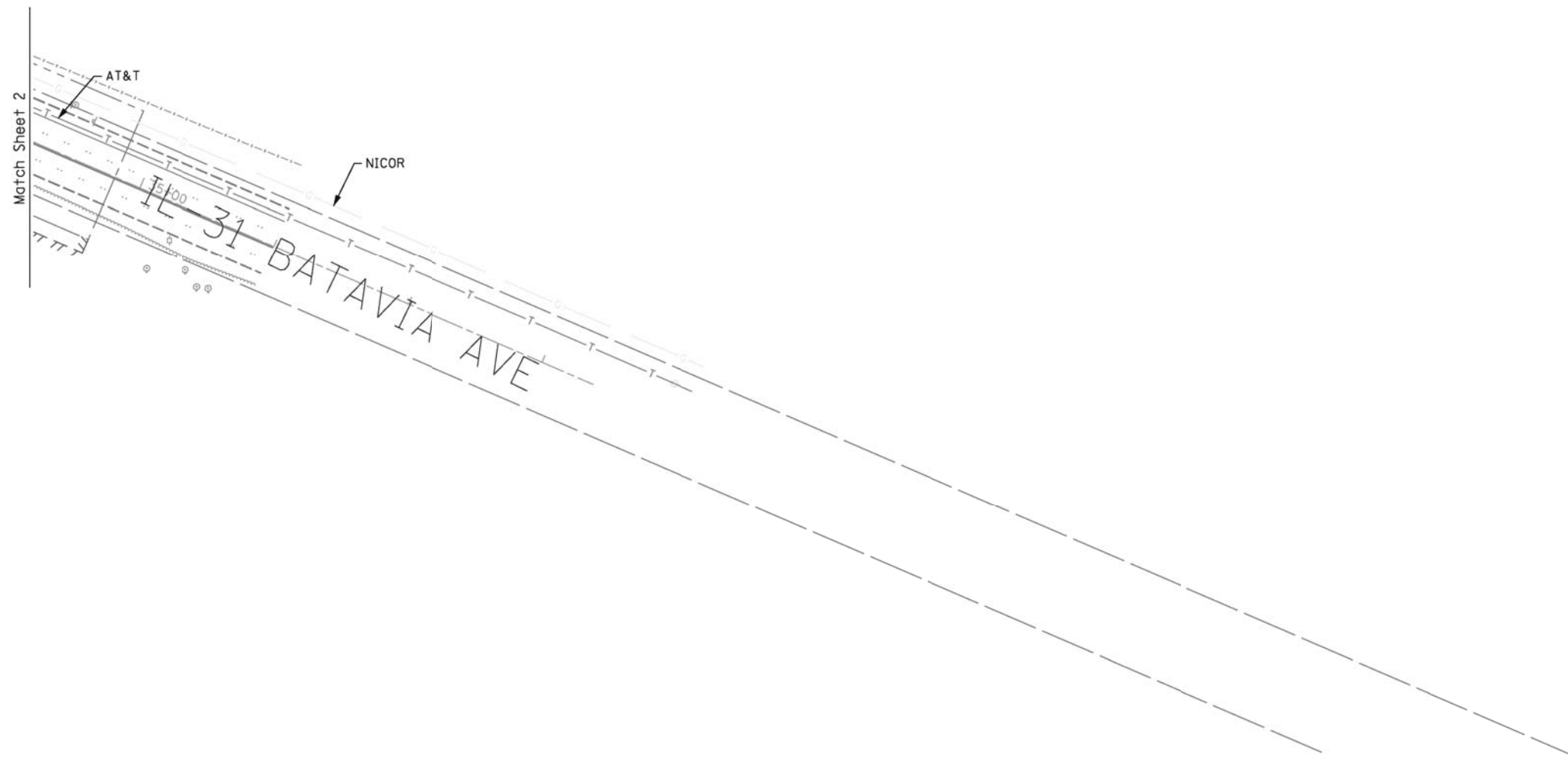
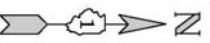
DESIGNED	EJ	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	3/01/12	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 Mooseheart Road  
North Aurora, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	32
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.			Contract No. 60P65	



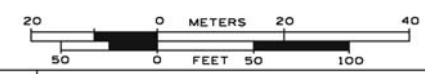


— A — A —	AERIAL UTILITY
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
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— S — S —	SEWER
⊙	TBE TEST HOLE

UTILITY OWNERS	
At&T = TELEPHONE	
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NICOR = GAS	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed from 2/15/12 through 2/24/12. Changes to utilities after 2/24/12 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510467  
SUE Plan Page: 3 of 3

COMPANY NAME:   
PROJECT CONTACT:   
DATE PLOTTED: 6/26/2012 10:20:21 PM   
FILE NAME: 8610019614-sup-04.dgn   
PLOT DRIVER: pdfcpl   
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Utility Quality Level "B" : Designating/Test Holes not Visually Verified
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	EJ	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	3/01/12	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 Mooseheart Road  
North Aurora, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	33
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.			Contract No. 60P65	

**DRAINAGE SCHEDULES**

DRAINAGE STRUCTURE TABLE													
NO.	STATION	OFFSET	STRUCTURE TYPE			DIA.	FRAME	RIM	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)	INVERT (NW)
			CB	MAN	FES								
1	23+86.5	19.6'		TA		4'	T1F CL	679.62	674.47	674.47		675.76	
2	25+86.5	-27.5'	TA			4'	T24 F&G	680.80			676.51		
3	25+86.5	27.5'	TA			4'	T24 F&G	680.70		676.22		676.25	
4	27+86.3	-27.5'	TA			4'	T24 F&G	681.79			678.25		
5	27+86.1	27.5'	TA			4'	T24 F&G	681.25				678.03	
6	27+86.3	22.1'		TA		4'	T1F CL	682.42	677.50		678.00	678.00	
7	29+00.0	-27.5'	TA			4'	T24 F&G	682.75			678.25		
8	29+00.0	30.1'	TA			4'	T24 F&G	681.59				678.02	
9	29+00.0	22.0'		TA		4'	T1F CL	681.77	676.80	676.90	678.00	678.00	
10	30+47.6	-52.3'	TA			4'	T24 F&G	682.21			675.40	676.75	
11	30+51.0	27.5'	TA			4'	T24 F&G	681.62				677.72	
12	30+50.8	22.0'		TA		6'	T1F CL	681.80	674.60	676.05	677.70	674.70	
13	31+74.5	27.4'	TA			4'	T24 F&G	681.15				677.62	
14	31+74.6	19.3'		TA		5'	T1F CL	681.51	673.90	674.00	677.60		
15	32+10.1	18.6'		TA		6'	T1F CL	681.38		673.70	673.70		
16	32+17.4	-41.1'		TA		6'	T1F CL	682.71		678.02	676.60	**	**
17	24+00.0	20.6'	TA			4'	T24 F&G	679.84	674.58	674.58			
18	23+85.0	-19.7'	TA			4'	T24 F&G	679.62			676.12		
19	32+05.4	-35.2'	TA			4'	T24 F&G	682.03	678.07				
20	34+00.0	-27.3'	TA			4'	T24 F&G	679.16			676.45		
20A	34+00.0	20.2'	TA			4'	T24 F&G	679.24			676.40	676.51	
38	64+49.8	-29.6'			24				682.00				
39	64+49.9	25.4'			12				682.00				
40	65+00.0	26.5'		TA		4'	T1F CL	682.25	678.80			679.50	
41	64+98.5	-28.2'		TA		4'	T1F CL	682.84		678.45	677.95	678.45	

STORM SEWER TABLE										
PIPE NO.	FROM STA.	TO STA.	LENGTH (FT)	DIA.	TYPE	SLOPE	TBF	INVERT (US)	INVERT (DS)	
							CU YD			
1	24+00.0	25+86.5	184	12"	STORM SEWER CL A	2	0.91 %	39.6	676.25	674.58
2	25+86.5	25+86.5	52	12"	STORM SEWER CL A	2	0.50 %	10.1	676.51	676.25
3	27+86.3	27+86.3	47	12"	STORM SEWER CL A	1	0.53 %	7.1	678.25	678.00
4	27+86.3	27+86.1	2	12"	STORM SEWER CL A	1	1.50 %	0.3	678.03	678.00
5	27+86.3	29+00.0	110	12"	STORM SEWER CL A	2	0.55 %	28.3	677.50	676.90
6	29+00.0	29+00.0	47	12"	STORM SEWER CL A	2	0.53 %	8.1	678.25	678.00
7	29+00.0	29+00.0	2	12"	STORM SEWER CL A	1	1.00 %	0.2	678.02	678.00
8	29+00.0	30+50.8	144	18"	STORM SEWER CL A	2	0.52 %	40.5	676.80	676.05
9	65+00.0	30+47.6	55	30"	STORM SEWER CL A	1	2.18 %	1.6	677.95	676.75
10	30+47.6	30+50.8	71	30"	STORM SEWER CL A	2	0.99 %	53.3	675.40	674.70
11	30+51.0	30+50.8	2	12"	STORM SEWER CL A	1	1.00 %	0.3	677.72	677.70
12	30+50.8	31+74.6	118	36"	STORM SEWER CL A	2	0.51 %	96.3	674.60	674.00
13	31+74.5	31+74.6	2	12"	STORM SEWER CL A	1	1.00 %	0.3	677.62	677.60
14	31+74.6	32+10.1	31	36"	STORM SEWER CL A	2	0.65 %	26.8	673.90	673.70
15	32+10.1	32+11.0	26	36"	STORM SEWER CL A	2	3.65 %	5.2	673.70	672.75
16	32+17.4	32+17.4	18	3X2	PRECAST CONCRETE BOX CULV		3.72 %	8.8	676.60	** 675.93
16A	32+17.7	32+17.9	32	3X2	PRECAST CONCRETE BOX CULV		3.72 %	4.0	** 674.82	672.75
17	24+00.0	23+86.5	11	12"	STORM SEWER CL A	2	1.00 %	3.1	674.58	674.47
18	23+85.0	23+86.5	36	12"	STORM SEWER CL A	1	1.00 %	11.5	676.12	675.76
19	32+05.4	32+17.4	10	12"	STORM SEWER CL A	1	0.50 %	0.7	678.07	678.02
20	34+00.0	34+00.0	45	12"	STORM SEWER CL A	1	0.50 %	0.0	676.45	676.51
20A	34+00.0	34+00.0	22	12"	STORM SEWER CL A	1	0.50 %	0.0	676.40	
21	54+60.3	55+38.3	78	12"	PIPE CULVERT CL D	1	3.27 %	18.2	709.00	706.45
22	57+15.3	57+44.7	30	12"	PIPE CULVERT CL D	1	3.67 %	4.1	696.50	695.40
23	58+11.1	58+44.3	35	12"	PIPE CULVERT CL D	1	0.57 %	3.0	692.00	691.80
24	58+67.5	58+95.0	32	12"	PIPE CULVERT CL D	1	2.19 %	1.7	690.78	690.08
25	58+69.4	59+20.1	51	18"	PIPE CULVERT CL D	1	1.37 %	4.9	689.70	689.00
26	60+19.6	60+55.6	36	24"	PIPE CULVERT CL D	1	0.69 %	4.1	687.00	686.75
27	61+72.4	62+14.5	42	24"	PIPE CULVERT CL D	1	0.24 %	5.0	685.00	684.90
28	62+76.5	63+07.5	31	12"	PIPE CULVERT CL D	1	0.90 %	2.0	684.32	684.04
29	64+49.8	64+98.5	41	24"	STORM SEWER CL A	2	8.66 %	0.0	682.00	678.45
30	64+49.9	65+00.0	43	12"	STORM SEWER CL A	1	5.81 %	0.0	682.00	679.50
31	65+00.0	64+98.5	52	12"	STORM SEWER CL A	2	0.67 %	5.9	678.80	678.45

\*\* MATCH TO EXISTING CONNECTION

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/27/2012 10:51:24 AM  
 FILE NAME: \\s01019614\sch-01.dgn  
 PLOT DRIVER: pdf.plt  
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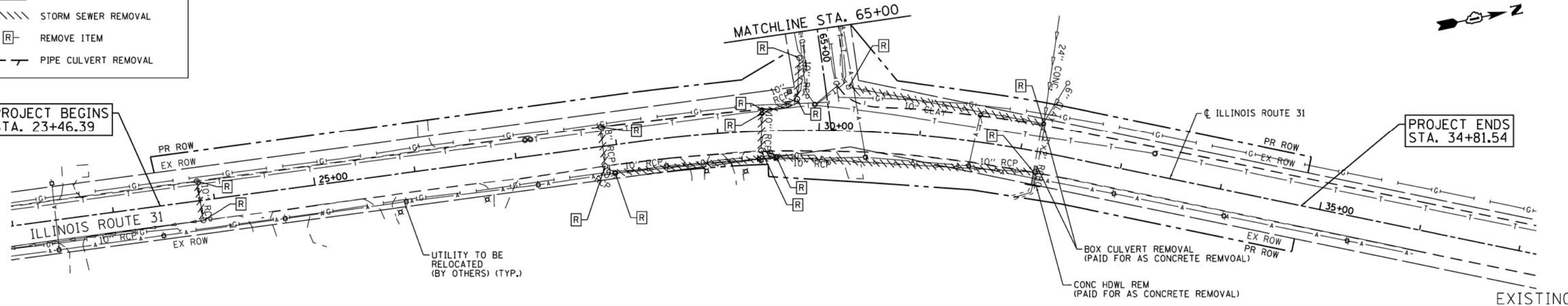
	USER NAME = spernal DESIGNED - C. HARTKE DRAWN - S. PERNAL CHECKED - T. HAMILTON PLOT DATE = 6/27/2012	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE SCHEDULES ILLINOIS ROUTE 31 AT MOOSEHEART ROAD</b>	F.A. RTE. = 3887 SECTION = AR-N-2 COUNTY = KANE ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 85 SHEET NO. = 34 CONTRACT NO. = 60P65
	PLOT SCALE = N/A DATE = 6/27/2012	SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.			FED. ROAD DIST. NO.	

**LEGEND:**

- //// STORM SEWER REMOVAL
- [R] REMOVE ITEM
- - - PIPE CULVERT REMOVAL

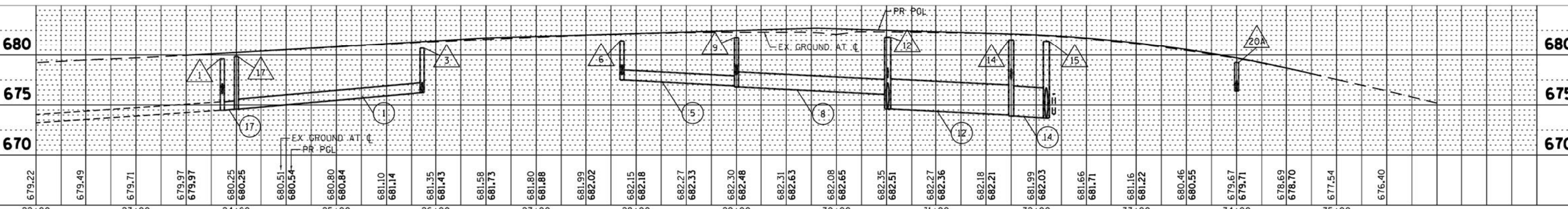
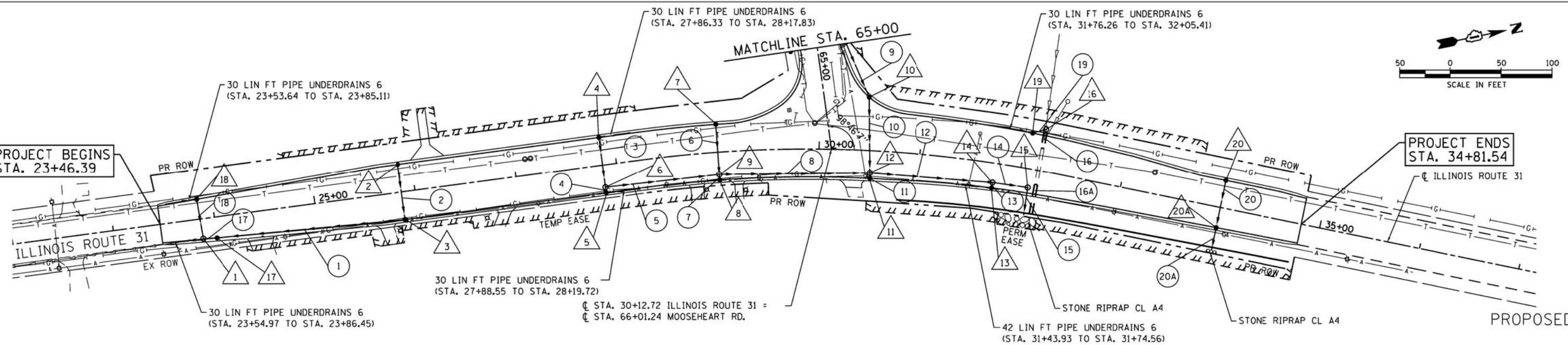
PROJECT BEGINS  
STA. 23+46.39

PROJECT ENDS  
STA. 34+81.54



PROJECT BEGINS  
STA. 23+46.39

PROJECT ENDS  
STA. 34+81.54



DATE	
BY	
PLAN	
NOTE BOOK NO.	
NO.	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
FILE NAME	
FILE NO.	

DATE	
BY	
PROFILE	
NOTE BOOK NO.	
NO.	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
FILE NAME	
FILE NO.	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNA  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 6/27/2012 11:26 AM  
 FILE NAME: 86100196.14-dpp-01.dgn  
 PLOT NUMBER: 1  
 PLOT SCALE: 1"=50'

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #164-01322

USER NAME = sperna  
 FILE NAME = 86100196.14-dpp-01.dgn  
 PLOT SCALE = 1"=50'  
 PLOT DATE = 6/27/2012

DESIGNED - C. HARTKE  
 DRAWN - S. PERNA  
 CHECKED - T. HAMILTON  
 DATE - 6/27/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN AND PROFILE  
 ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 23+46.39 TO STA. 27+00.00

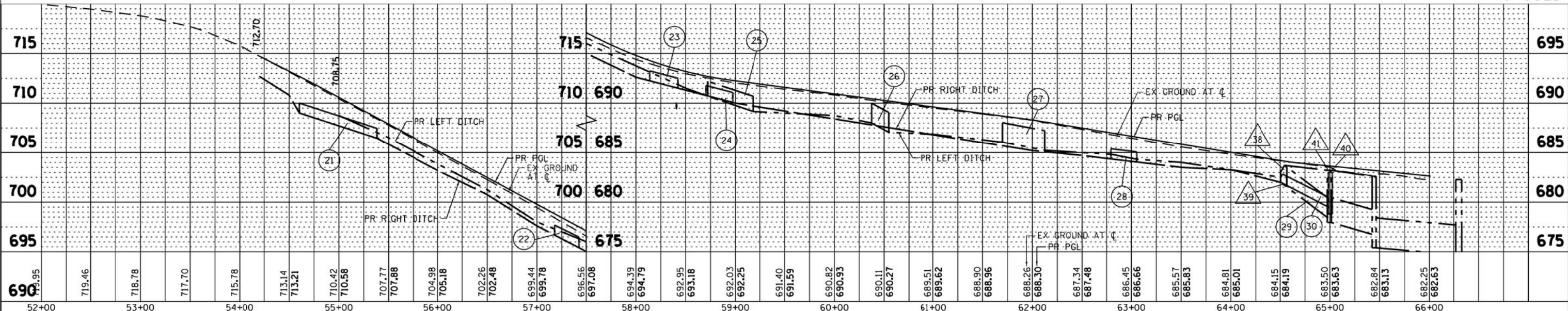
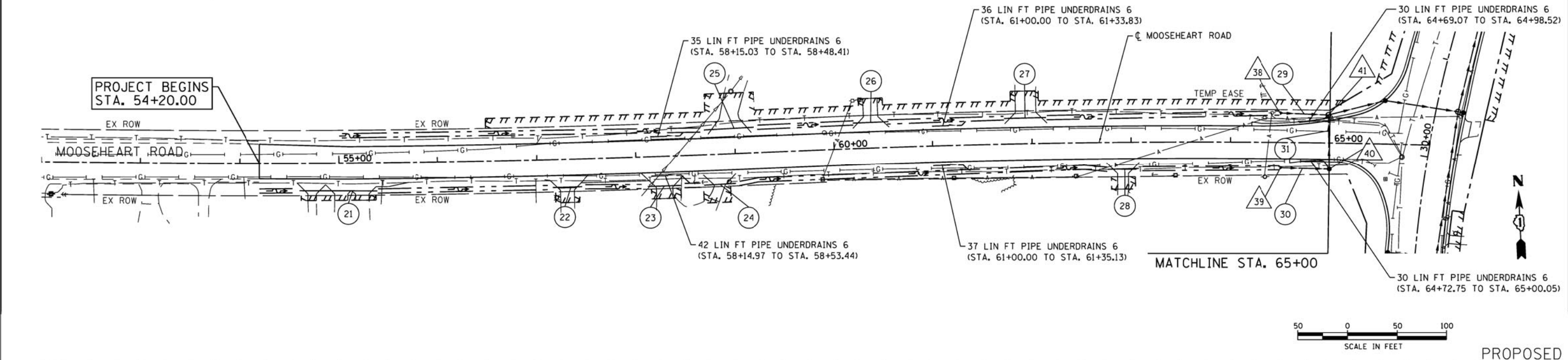
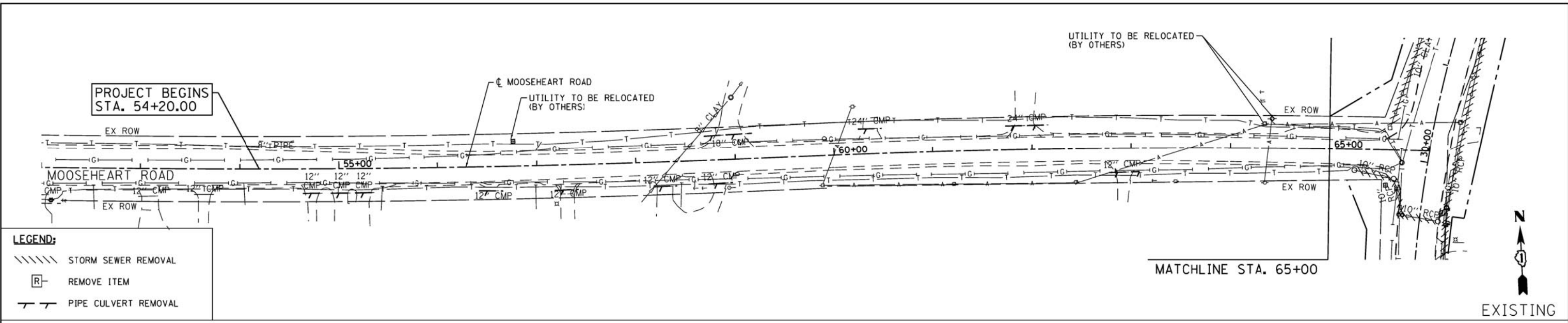
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	35
CONTRACT NO. 60P65				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	
NO. BOOK	
NO.	
SURVEYED	
PLOTTED	
CHECKED	
FILE NAME	
FILE NO.	

DATE	
BY	
PROFILE	
NO. BOOK	
NO.	
SURVEYED	
PLOTTED	
CHECKED	
FILE NAME	
FILE NO.	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: Illinois Professional Design Firm  
 DATE PLOTTED: 6/27/2012 11:26:52 AM  
 FILE NAME: 86100196.14-dpp-02.dgn  
 PLOT NUMBER: 2  
 PLOT DATE: 6/27/2012



52+00	53+00	54+00	55+00	56+00	57+00	58+00	59+00	60+00	61+00	62+00	63+00	64+00	65+00	66+00																																						
690	690	690	690	690	690	690	690	690	690	690	690	690	690	690																																						
719.95	719.46	718.78	717.70	715.78	713.14	713.21	710.42	710.58	707.77	707.88	704.98	705.18	702.26	702.48	699.44	699.78	696.56	697.08	694.39	694.79	692.95	693.18	692.03	692.25	691.40	691.59	690.82	690.93	690.11	690.27	689.51	689.62	688.90	688.96	688.26	688.30	687.34	687.48	686.45	686.66	685.57	685.83	684.81	685.01	684.15	684.19	683.50	683.63	682.84	683.13	682.25	682.63

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 # 164-01322

USER NAME = spernal	DESIGNED - C. HARTKE	REVISED -
FILE NAME = 86100196.14-dpp-02.dgn	DRAWN - S. PERNA	REVISED -
PLOT SCALE = 1"=50'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 6/27/2012	DATE - 6/27/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE PLAN AND PROFILE</b>	
<b>MOOSEHEART ROAD</b>	
SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS
STA. 54+20.00	TO STA. 65+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	36
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 60P65	

PART OF SECTION 33, T39N, R8E OF THE 3rd PM, BATAVIA TOWNSHIP, KANE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
1HR0001TE	ANDREW S. MASTERS AND JENNIFER A. MASTERS, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY	0.632		0.632	0.088	0.003 117 SQ.FT.	CONSTRUCTION	12-33-177-005	
1HR0002TE	ANNETTE A. LINDSTROM	0.723		0.723	0.093	0.006 258 SQ.FT.	CONSTRUCTION	12-33-177-006	
1HR0003TE	JOHN E. JANGELIS AND DIANE S. JANGELIS, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY	0.579		0.579	0.064	0.006 265 SQ.FT.	CONSTRUCTION	12-33-177-007	
1HR0004TE-A	STEPHEN M. MILLER AS TRUSTEE OF THE STEPHEN M. MILLER TRUST DATED MARCH 19, 2004 AND JUDITH A. GARY AS TRUSTEE UNDER THE JUDITH A. GARY TRUST DATED MARCH 19, 2004 EACH AS TO AN UNDIVIDED 1/2 INTEREST.	0.780		0.780	0.324	0.007 296 SQ.FT.	CONSTRUCTION	12-33-200-002	
1HR0004TE-B						0.010 433 SQ.FT.	CONSTRUCTION	12-33-200-018	
1HR0010	MOOSE INTERNATIONAL INCORPORATED	832.044	0.528		0.362			12-33-200-001	
1HR0010TE-A						0.228	CONSTRUCTION	12-33-200-017	
1HR0010TE-B						0.087	CONSTRUCTION		

PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ 95TH STREET

NO.	STATION	OFFSET	-NORTH-COORDINATES-EAST-	
455	54+62.00	33.00 RT.	N. 1,876,513.2384	E. 984,783.1457
456	54+62.00	38.00 RT.	N. 1,876,508.2428	E. 984,782.9368
457	54+85.28	38.00 RT.	N. 1,876,507.2898	E. 984,806.2734
302	54+85.36	33.00 RT.	N. 1,876,512.2827	E. 984,806.5524
458	55+37.00	38.00 RT.	N. 1,876,505.3368	E. 984,858.1209
459	55+37.00	33.00 RT.	N. 1,876,510.3337	E. 984,858.2982
471	56+49.00	33.00 LT.	N. 1,876,572.8589	E. 984,972.2737
472	56+49.00	43.00 LT.	N. 1,876,582.8555	E. 984,972.5339
460	57+18.00	33.00 RT.	N. 1,876,505.2823	E. 985,039.7300
461	57+18.00	44.00 RT.	N. 1,876,494.2845	E. 985,039.5078
462	57+42.00	44.00 RT.	N. 1,876,493.8224	E. 985,063.5925
463	57+42.00	33.00 RT.	N. 1,876,505.2823	E. 985,063.7924
464	58+14.70	33.00 RT.	N. 1,876,503.7191	E. 985,136.6864
465	58+14.70	43.00 RT.	N. 1,876,493.7198	E. 985,136.5659
466	58+44.20	43.00 RT.	N. 1,876,493.4001	E. 985,166.1712
467	58+44.20	33.00 RT.	N. 1,876,503.3996	E. 985,166.2667
468	58+67.00	33.00 RT.	N. 1,876,503.2032	E. 985,189.1294
469	58+67.00	49.00 RT.	N. 1,876,487.2037	E. 985,189.0073
473	58+71.00	43.00 LT.	N. 1,876,579.1712	E. 985,193.6947
474	58+71.00	61.00 LT.	N. 1,876,597.1708	E. 985,193.8260
328	58+94.00	33.00 RT.	N. 1,876,503.0274	E. 985,216.2040
470	58+94.00	49.00 RT.	N. 1,876,487.0276	E. 985,216.1183
475	59+21.00	61.00 LT.	N. 1,876,578.8986	E. 985,243.5790
476	59+21.00	43.00 LT.	N. 1,876,578.8986	E. 985,243.5790
477	60+26.00	43.00 LT.	N. 1,876,578.3581	E. 985,348.7267

CURVE DATA		CURVE DATA	
EXISTING CENTERLINE R.O.W.	CURVE NO. MH-1	EXISTING CENTERLINE R.O.W.	CURVE NO. MH-2
$\Delta = 02^{\circ}56'00''$	$\Delta = 03^{\circ}50'19''$	$\Delta = 03^{\circ}50'19''$	$\Delta = 03^{\circ}50'19''$
$D = 00^{\circ}29'00''$	$D = 00^{\circ}29'00''$	$D = 00^{\circ}29'00''$	$D = 00^{\circ}29'00''$
$R = 11854.30'$	$R = 9046.75'$	$R = 9046.75'$	$R = 9046.75'$
$L = 606.90'$	$L = 606.10'$	$L = 606.10'$	$L = 606.10'$
$T = 303.52'$	$T = 303.16'$	$T = 303.16'$	$T = 303.16'$
$E = 3.88'$	$E = 5.08'$	$E = 5.08'$	$E = 5.08'$
201 PC STA. 52+95.80 N. 1,876,554.3181 E. 984,618.5200	203 PC STA. 59+94.62 N. 1,876,535.5589 E. 985,316.9960	203 PC STA. 59+94.62 N. 1,876,535.5589 E. 985,316.9960	203 PC STA. 59+94.62 N. 1,876,535.5589 E. 985,316.9960
207 PI STA. 55+99.32 N. 1,876,537.3857 E. 984,921.5638	208 PI STA. 62+97.78 N. 1,876,534.2638 E. 985,597.3475	208 PI STA. 62+97.78 N. 1,876,534.2638 E. 985,597.3475	208 PI STA. 62+97.78 N. 1,876,534.2638 E. 985,597.3475
202 PT STA. 59+02.70 N. 1,876,535.9836 E. 985,225.0770	313 PT STA. 66+00.72 N. 1,876,512.4657 E. 985,922.5412	313 PT STA. 66+00.72 N. 1,876,512.4657 E. 985,922.5412	313 PT STA. 66+00.72 N. 1,876,512.4657 E. 985,922.5412

STATE OF ILLINOIS )  
COUNTY OF WILL ) SS

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 39 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011 A.D.

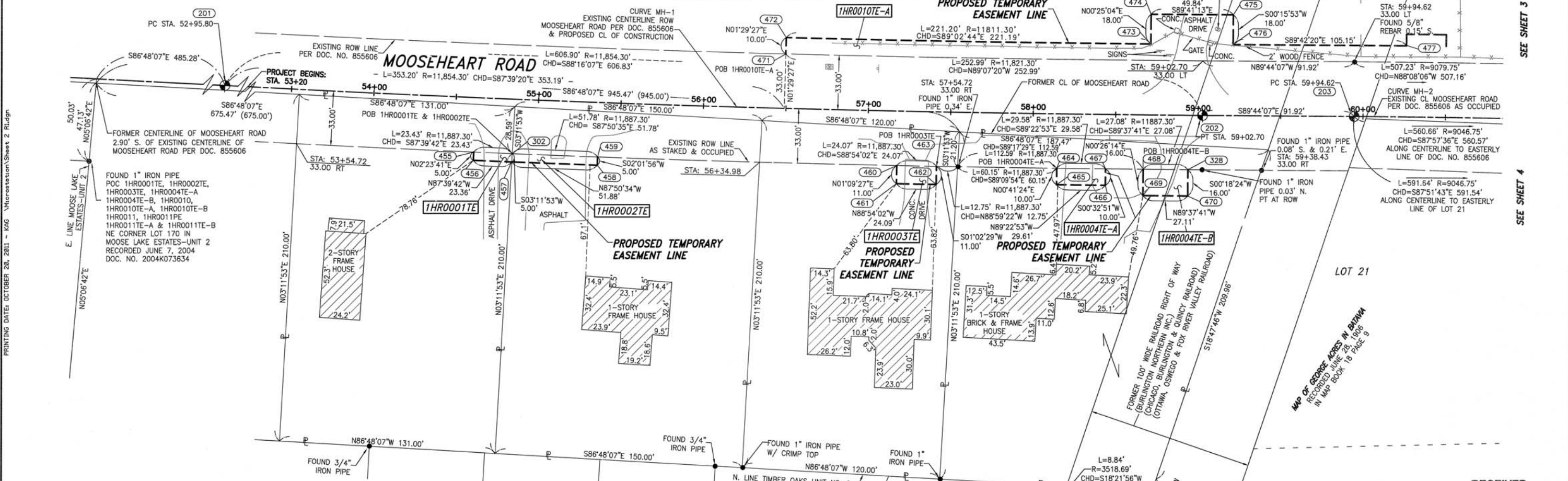
DAVID A. CLAASSEN  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962  
LICENSE EXPIRES NOVEMBER 30, 2012  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DAVID A. CLAASSEN  
VICE PRESIDENT



- SYMBOL LEGEND
- INLET
  - LIGHT POLE
  - POWER POLE
  - SIGN
  - MANHOLE
  - TELEPHONE PEDESTAL
  - ELECTRICAL OUTLET

SEE SHEET 7 FOR TOTAL HOLDING OF 1HR0010



LEGEND

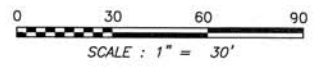
- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION METRIC WITH IMPERIAL
- COMPUTED DIMENSION METRIC WITH IMPERIAL
- RECORD DATA
- EXISTING BUILDING

BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, N.A.D. 83 (2007)

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION
- BT1 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
- BT2 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- BT3 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY.
- SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
- BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER. IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

NOTES:

- ALL COORDINATES SHOWN HEREON ARE PROJECT. ALL DISTANCES SHOWN HEREON ARE GROUND.
- BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83, (2007).
- THE COMBINATION FACTOR USED FOR THIS PROJECT = 0.99994637.



F.A.U. 3887 (ILLINOIS ROUTE 31) @ MOOSEHEART RD., JOB NO. R-91-018-10

REVISION DATE: 4/25/11  
10/12/11  
9/27/11  
NEW REQUIREMENTS - REVISED TABLE 1HR0010  
REVISED OWNER 1HR0001TE  
REVISION: OMITTED P.O.C. 1HR0011TE-A 1HR0011TE-B

J.M.H.  
J.M.H.  
MADE BY: K.A.G.

RECEIVED  
OCT 24 2011  
PLATS & LEGALS

Clasassen, White & Associates, P.C.  
121 AIRPORT DRIVE, UNIT 1  
JOLIET, ILLINOIS 60431  
(815) 744-3720

SHEET 1 IS A COVER SHEET AND NOT RECORDED.

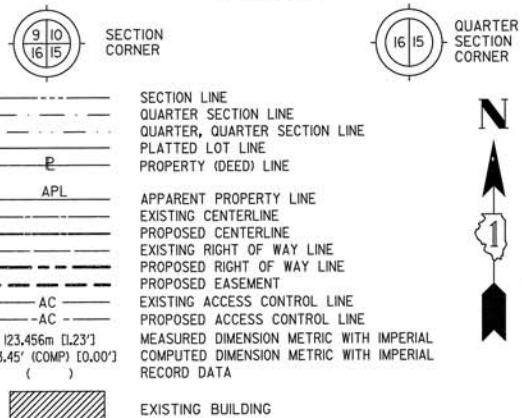
PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
F.A.U. 3887 (IL RTE. 31)

LIMIT: @ MOOSEHEART RD. KANE COUNTY  
PROJECT JOB NO. R-91-018-10  
STATION 53+50 TO STATION 59+50  
SCALE: 1" = 30' SHEET 2 OF ???

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAMBURG, ILLINOIS 60196-1096



PART OF THE E. 1/2 SECTION 33, IN T39N, R8E OF THE 3rd PM, BATAVIA TOWNSHIP, KANE COUNTY, ILLINOIS.



- IRON PIPE OR ROD FOUND ○ SET 5/8" x 30" REBAR
- + CUT CROSS FOUND OR SET ● PK FOUND PK NAIL ○ PK SET PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION
- T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
- BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
1HR0010	MOOSE INTERNATIONAL INCORPORATED	832.044	0.528	831.516	0.362	0.228	CONSTRUCTION	12-33-200-001 12-33-200-017	
1HR0010TE-A									
1HR0010TE-B									
1HR0011									
1HR0011PE	14.232	13.698	0.534	0.354	0.010	437 SQ. FT.	CONSTRUCTION	12-33-200-001	
1HR0011TE-A									
1HR0011TE-B									

CURVE DATA  
EXISTING CENTERLINE R.O.W.  
CURVE NO. MH-2

Δ = 03°50'19"  
D = 00°38'00"  
R = 9046.75'  
L = 606.10'  
T = 303.16'  
E = 5.08'

(203) PC STA. 59+94.62  
N. 1,876,535.5589 E. 985,316.9960

(208) PI STA. 62+97.78  
N. 1,876,534.2638 E. 985,597.3475

(313) PT STA. 66+00.72  
N. 1,876,512.4657 E. 985,922.5412

CURVE DATA  
PROPOSED CENTERLINE R.O.W.  
CURVE NO. IL-31

Δ = 19°17'31"  
D = 04°37'14"  
R = 1240.00'  
L = 417.52'  
T = 210.75'  
E = 17.78'

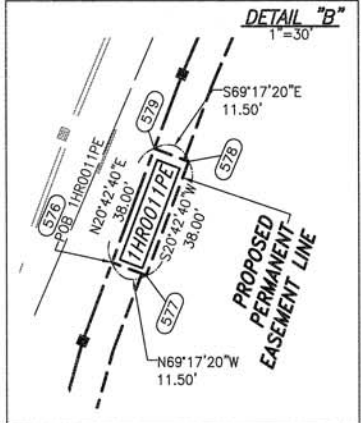
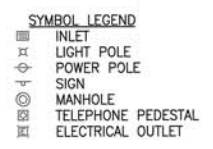
(310) PC STA. 28+22.48  
N. 1,876,325.1639 E. 985,894.7207

(210) PI STA. 30+33.23  
N. 1,876,535.3866 E. 985,909.6773

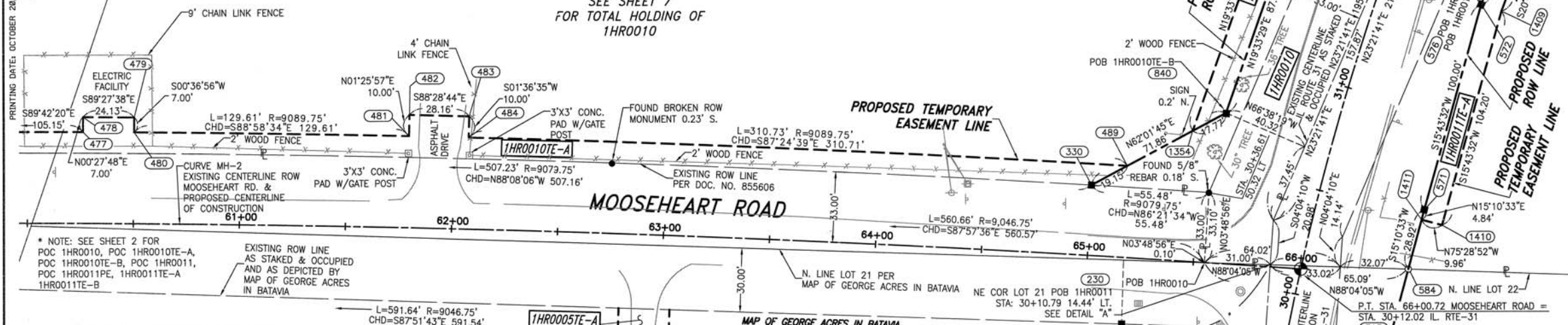
(311) PT STA. 32+40.00  
N. 1,876,728.8634 E. 985,993.2479

PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ IL ROUTE 31

NO.	STATION	OFFSET	NORTH-COORDINATES	EAST-
230	30+10.79	14.44' LT.	N. 1,876,514.4630	E. 985,908.1887
313	30+12.02	0.00' RT.	N. 1,876,512.4657	E. 985,922.5412
584	30+23.54	49.43' RT.	N. 1,876,512.2683	E. 985,973.2491
330	30+27.44	104.94' LT.	N. 1,876,552.0527	E. 985,824.0408
489	30+39.27	90.66' LT.	N. 1,876,561.0323	E. 985,840.9499
1411	30+48.62	49.95' RT.	N. 1,876,535.5084	E. 985,979.5527
1410	30+48.62	59.91' RT.	N. 1,876,533.0125	E. 985,989.1906
571	30+53.67	50.00' RT.	N. 1,876,540.1778	E. 985,980.8193
1354	30+61.51	64.92' LT.	N. 1,876,577.4227	E. 985,871.8136
840	30+73.17	52.00' LT.	N. 1,876,585.7582	E. 985,887.5096
849	31+57.68	61.00' LT.	N. 1,876,672.6926	E. 985,905.6593
841	31+57.68	49.00' LT.	N. 1,876,668.6754	E. 985,916.9670
572	31+57.76	47.50' RT.	N. 1,876,636.4378	E. 986,007.9229
1409	31+58.00	57.51' RT.	N. 1,876,633.3085	E. 986,017.4307
576	31+84.98	47.74' RT.	N. 1,876,660.9224	E. 986,017.1803
1408	31+85.00	57.74' RT.	N. 1,876,657.3859	E. 986,026.5340
577	31+85.00	59.24' RT.	N. 1,876,656.8554	E. 986,027.9371
579	32+24.49	47.06' RT.	N. 1,876,696.4667	E. 986,030.6191
1407	32+24.84	57.05' RT.	N. 1,876,692.9301	E. 986,039.9729
578	32+24.89	58.55' RT.	N. 1,876,692.3997	E. 986,041.3760
848	32+40.00	61.00' LT.	N. 1,876,753.0518	E. 985,937.2486
843	32+40.00	49.00' LT.	N. 1,876,748.2934	E. 985,948.2649
311	32+40.00	0.00' RT.	N. 1,876,728.8634	E. 985,993.2479
573	32+50.00	46.00' RT.	N. 1,876,719.8065	E. 986,039.4436
1406	32+50.23	56.00' RT.	N. 1,876,716.0535	E. 986,048.7156
847	33+75.00	61.00' LT.	N. 1,876,876.9880	E. 985,990.7818
846	33+75.00	49.00' LT.	N. 1,876,872.2296	E. 986,001.7980
844	34+81.50	49.00' LT.	N. 1,876,969.9989	E. 986,044.0286
845	34+81.50	33.00' LT.	N. 1,876,963.6544	E. 986,058.7169
1403	34+81.50	33.00' RT.	N. 1,876,937.4833	E. 986,119.3063
1404	34+81.50	46.00' RT.	N. 1,876,932.3284	E. 986,131.2408
1405	34+81.50	56.00' RT.	N. 1,876,928.3631	E. 986,140.4208

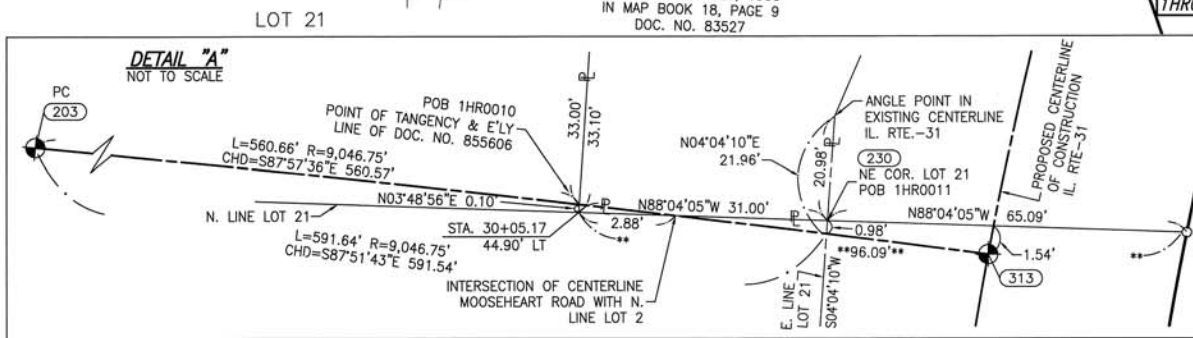


PRINTING DATE: OCTOBER 28, 2011 ~ KAG Microstation/Sheet 3 Rldgen  
SEE SHEET 2



PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ MOOSEHEART ROAD

STATION	OFFSET	NORTH-COORDINATES	EAST-
477	60+26.00	43.00' LT.	N. 1,876,578.3581 E. 985,348.7267
478	60+26.00	50.00' LT.	N. 1,876,585.3579 E. 985,348.7833
479	60+50.00	50.00' LT.	N. 1,876,585.1307 E. 985,372.9149
480	60+50.00	43.00' LT.	N. 1,876,578.1311 E. 985,372.8397
481	61+79.00	43.00' LT.	N. 1,876,575.8149 E. 985,502.4310
482	61+79.00	53.00' LT.	N. 1,876,585.8118 E. 985,502.6810
483	62+07.00	53.00' LT.	N. 1,876,585.0641 E. 985,530.8351
484	62+07.00	43.00' LT.	N. 1,876,575.0681 E. 985,530.5542
330	65+00.00	33.00' LT.	N. 1,876,552.0527 E. 985,824.0408
489	65+16.26	43.00' LT.	N. 1,876,561.0323 E. 985,840.9499
1354	65+45.84	61.33' LT.	N. 1,876,577.4227 E. 985,871.8136
840	65+60.84	70.69' LT.	N. 1,876,585.7582 E. 985,887.5096
230	65+86.26	0.98' LT.	N. 1,876,514.4630 E. 985,908.1887
313	66+00.72	00.00' RT.	N. 1,876,512.4657 E. 985,922.5412



NOTES:

- 1) ALL COORDINATES SHOWN HEREON ARE PROJECT. ALL DISTANCES SHOWN HEREON ARE GROUND.
- 2) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83, (2007).
- 3) THE COMBINATION FACTOR USED FOR THIS PROJECT = 0.99994637.

STATE OF ILLINOIS ) SS  
COUNTY OF WILL )

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 04-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 39 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011 A.D.

DAVID A. CLAASSEN  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962  
LICENSE EXPIRES NOVEMBER 30, 2012  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DAVID A. CLAASSEN  
VICE PRESIDENT

CLAASSEN, WHITE & ASSOCIATES, P.C.  
121 AIRPORT DRIVE, UNIT 1  
JOLIET, ILLINOIS 60431  
(815) 744-3720

RECEIVED  
OCT 24 2011  
PLATS & LEGALS

SHEET 1 IS A COVER SHEET AND NOT RECORDED.

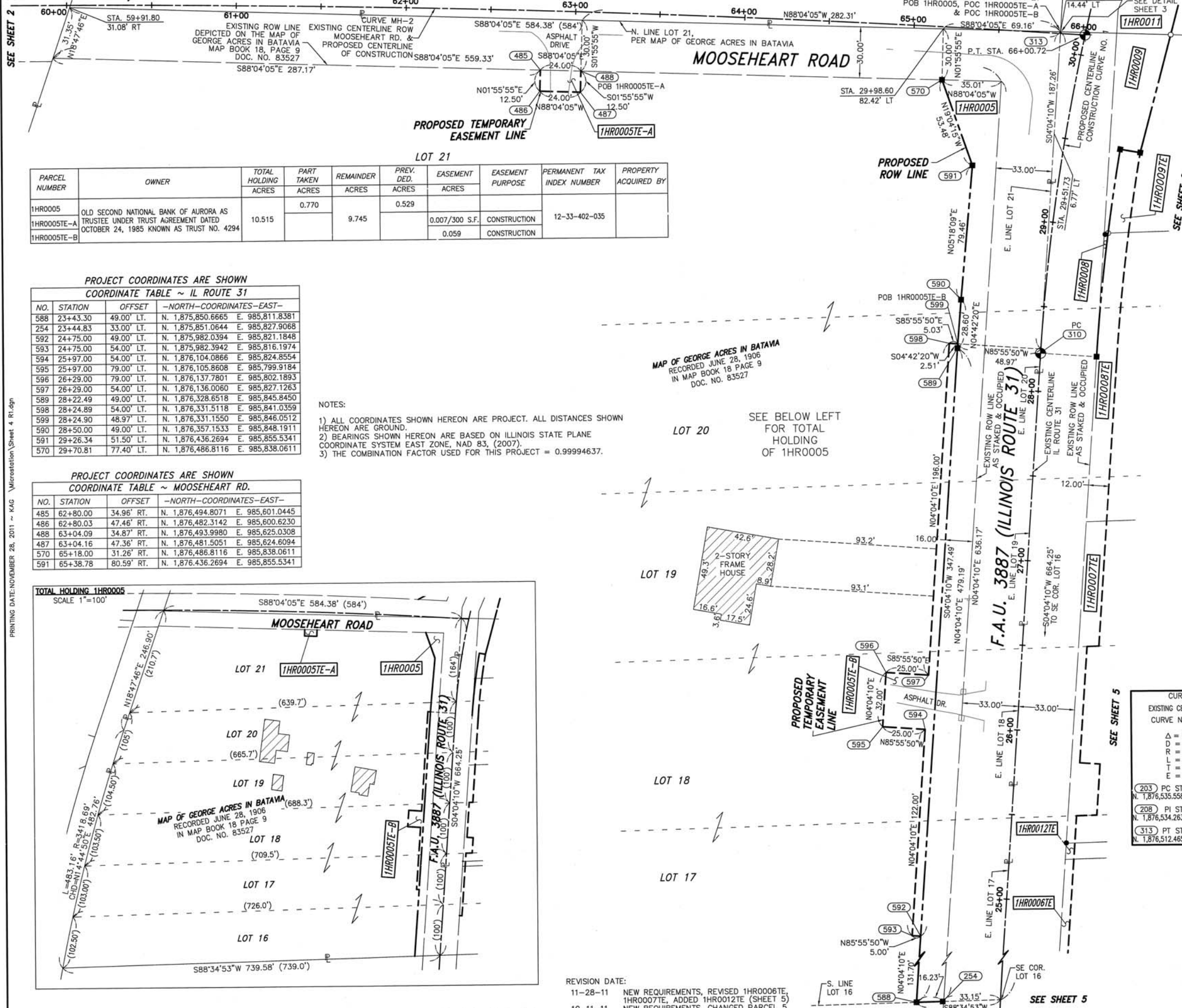
PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
F.A.U. 3887 (IL RTE. 31)

LIMIT: @ MOOSEHEART RD. KANE COUNTY  
PROJECT JOB NO. R-91-018-10  
STATION 60+00 TO STATION 66+00.72  
SCALE: 1" = 30' SHEET 3 OF 222

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096



PART OF THE S. 1/2 SECTION 33, IN T39N, R8E OF THE 3rd PM, BATAVIA TOWNSHIP, KANE COUNTY, ILLINOIS.



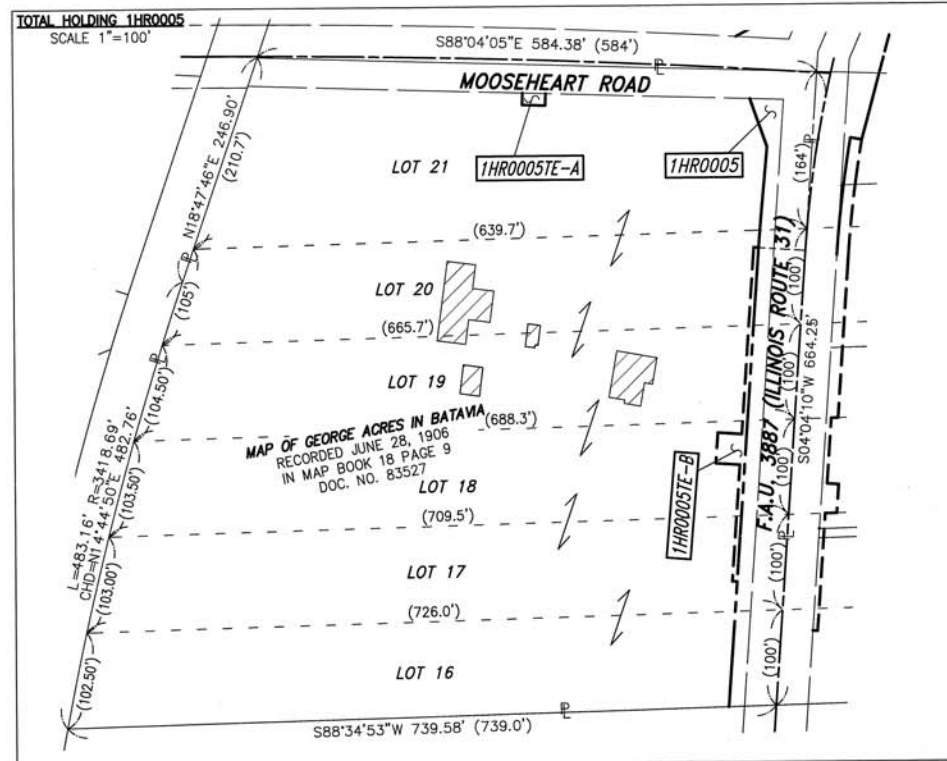
PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
1HRO005	OLD SECOND NATIONAL BANK OF AURORA AS TRUSTEE UNDER TRUST AGREEMENT DATED OCTOBER 24, 1985 KNOWN AS TRUST NO. 4294	10.515	0.770	9.745	0.529			12-33-402-035	
1HRO005TE-A						0.007/300 S.F.	CONSTRUCTION		
1HRO005TE-B						0.059	CONSTRUCTION		

PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ IL ROUTE 31

NO.	STATION	OFFSET	-NORTH-COORDINATES-EAST-
588	23+43.30	49.00' LT.	N. 1,875,850.6665 E. 985,811.8381
254	23+44.83	33.00' LT.	N. 1,875,851.0644 E. 985,827.9068
592	24+75.00	49.00' LT.	N. 1,875,982.0394 E. 985,821.1848
593	24+75.00	54.00' LT.	N. 1,875,982.3942 E. 985,816.1974
594	25+97.00	54.00' LT.	N. 1,876,104.8866 E. 985,824.8554
595	25+97.00	79.00' LT.	N. 1,876,105.8608 E. 985,799.9184
596	26+29.00	79.00' LT.	N. 1,876,137.7801 E. 985,802.1893
597	26+29.00	54.00' LT.	N. 1,876,136.0060 E. 985,827.1263
589	28+22.49	49.00' LT.	N. 1,876,328.6518 E. 985,845.8450
598	28+24.89	54.00' LT.	N. 1,876,331.5118 E. 985,841.0359
599	28+24.90	48.97' LT.	N. 1,876,331.1550 E. 985,846.0512
590	28+50.00	49.00' LT.	N. 1,876,357.1533 E. 985,848.1911
591	29+26.34	51.50' LT.	N. 1,876,436.2694 E. 985,855.5341
570	29+70.81	77.40' LT.	N. 1,876,486.8116 E. 985,838.0611

PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ MOOSEHEART RD.

NO.	STATION	OFFSET	-NORTH-COORDINATES-EAST-
485	62+80.00	34.96' RT.	N. 1,876,494.8071 E. 985,601.0445
486	62+80.03	47.46' RT.	N. 1,876,482.3142 E. 985,600.6230
488	63+04.09	34.87' RT.	N. 1,876,493.9980 E. 985,625.0308
487	63+04.16	47.36' RT.	N. 1,876,481.5051 E. 985,624.6094
570	65+18.00	31.26' RT.	N. 1,876,486.8116 E. 985,838.0611
591	65+38.78	80.59' RT.	N. 1,876,436.2694 E. 985,855.5341



NOTES:  
 1) ALL COORDINATES SHOWN HEREON ARE PROJECT. ALL DISTANCES SHOWN HEREON ARE GROUND.  
 2) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83, (2007).  
 3) THE COMBINATION FACTOR USED FOR THIS PROJECT = 0.99994637.

REVISION DATE:  
 11-28-11 NEW REQUIREMENTS, REVISED 1HRO006TE, 1HRO007TE, ADDED 1HRO012TE (SHEET 5)  
 10-11-11 NEW REQUIREMENTS, CHANGED PARCEL 5  
 4-21-11 NEW REQUIREMENTS, CHANGED PARCEL 5

LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION METRIC WITH IMPERIAL
- COMPUTED DIMENSION METRIC WITH IMPERIAL
- RECORD DATA
- EXISTING BUILDING

IRON PIPE OR ROD FOUND  
 CUT CROSS FOUND OR SET  
 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION  
 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.  
 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.  
 STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.  
 STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.  
 PERMANENT SURVEY MARKER. IDOT STD. 2135 (TO BE SET BY OTHERS)  
 RIGHT OF WAY STAKING PROPOSED TO BE SET.

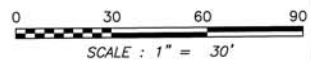
STATE OF ILLINOIS )  
 COUNTY OF WILL )

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 39 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011 A.D.

DAVID A. CLAASSEN  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962  
 LICENSE EXPIRES NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CURVE DATA	CURVE DATA
EXISTING CENTERLINE R.O.W. CURVE NO. MH-2	PROPOSED CENTERLINE IL-31 CURVE NO. 1
Δ = 03°50'19"	Δ = 19°17'31"
D = 00°38'00"	D = 04°37'14"
R = 9046.75'	R = 1240.00'
L = 606.10'	L = 417.52'
T = 303.16'	T = 210.75'
E = 5.08'	E = 17.78'
(203) PC STA. 59+94.62 N. 1,876,535.5589 E. 985,316.9960	(310) PC STA. 28+22.48 N. 1,876,325.1639 E. 985,894.7207
(208) PI STA. 62+97.78 N. 1,876,534.2638 E. 985,597.3475	(210) PI STA. 30+33.23 N. 1,876,535.3866 E. 985,909.6773
(313) PT STA. 66+00.72 N. 1,876,512.4657 E. 985,922.5412	(311) PT STA. 32+40.00 N. 1,876,728.8634 E. 985,993.2479



RECEIVED  
 NOV 28 2011  
 PLATS & LEGALS

Claassen, White & Associates, P.C.  
 121 AIRPORT DRIVE, UNIT 1  
 JOLIET, ILLINOIS 60431  
 (815) 744-3720

SHEET 1 IS A COVER SHEET AND NOT RECORDED.

**PLAT OF HIGHWAYS  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.U. 3887 (IL RTE. 31)**

LIMIT: @ MOOSEHEART RD. KANE COUNTY  
 PROJECT JOB NO. R-91-018-10  
 STATION 24+43.68 TO STATION 30+10.79  
 SCALE: 1" = 30' SHEET 4 OF ???

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196-1096

PART OF THE S. 1/2 SECTION 33, IN T39N, R8E OF THE 3rd PM, BATAVIA TOWNSHIP, KANE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
1HR0006TE	DOUGLAS E. DREIER AND RUTH M. DREIER, HUSBAND AND WIFE, IN JOINT TENANCY	0.894		0.894		0.011	CONSTRUCTION	12-33-453-004 12-33-453-005	
1HR0007TE	PETER J. STARRETT AND SUSAN S. STARRETT, HUSBAND AND WIFE, AS JOINT TENANTS BY THE ENTIRETY, AS TO PARCEL 1, AND PETER J. STARRETT, AS TO PARCEL 2	0.826		0.826		0.042	CONSTRUCTION	12-33-453-031	
1HR0012TE	THE OLD SECOND NATIONAL BANK OF AURORA, AS TRUSTEE UNDER TRUST AGREEMENT DATED THE 24TH DAY OF OCTOBER, 1985, KNOWN AS TRUST NUMBER 4294	0.037		0.037		0.001/48 S.F.	CONSTRUCTION	12-33-453-003	

PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ IL ROUTE 31

NO.	STATION	OFFSET	--NORTH--COORDINATES--EAST--	
1413	24+28.33	38.00 RT.	N. 1,875,929.3090	E. 985,904.6531
1412	24+28.33	33.00 RT.	N. 1,875,929.6639	E. 985,899.6657
362	25+25.51	33.00 RT.	N. 1,876,026.6073	E. 985,906.5629
1419	25+25.99	38.00 RT.	N. 1,876,026.7316	E. 985,911.5844
361	25+35.10	33.00 RT.	N. 1,876,036.1686	E. 985,907.2431
1420	25+35.58	38.00 RT.	N. 1,876,036.2930	E. 985,912.2646
342	25+51.17	33.00 RT.	N. 1,876,052.2018	E. 985,908.3838
1421	25+51.65	38.00 RT.	N. 1,876,052.3261	E. 985,913.4053
538	25+52.81	50.00 RT.	N. 1,876,052.6246	E. 985,925.4569
539	25+83.00	50.00 RT.	N. 1,876,082.7414	E. 985,927.5996
1422	25+83.00	38.00 RT.	N. 1,876,083.5930	E. 985,915.6299
1423	26+51.65	38.00 RT.	N. 1,876,152.0740	E. 985,920.5020
347	26+52.33	45.00 RT.	N. 1,876,152.2481	E. 985,927.5321
360	27+25.05	33.00 RT.	N. 1,876,225.6436	E. 985,920.7236
407	27+26.21	45.00 RT.	N. 1,876,225.9421	E. 985,932.7752

LEGEND

CURVE DATA  
PROPOSED CENTERLINE IL-31  
CURVE NO. 1

Δ = 19°17'31"  
D = 04°37'14"  
R = 1240.00'  
L = 417.52'  
T = 210.75'  
E = 17.78'

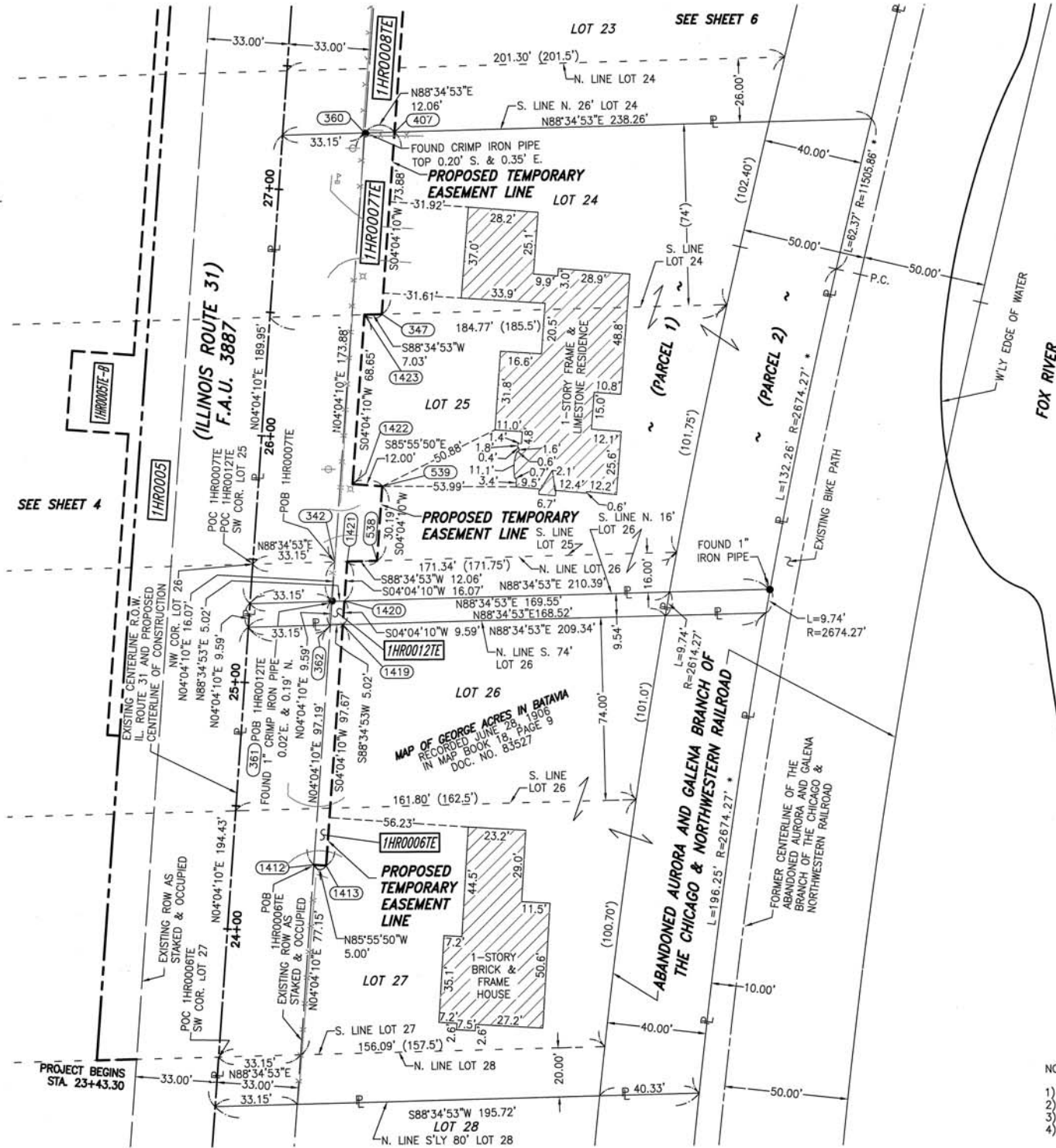
310 PC STA. 28+22.48  
N. 1,876,325.1639 E. 985,894.7207

210 PI STA. 30+33.23  
N. 1,876,535.3866 E. 985,909.6773

311 PT STA. 32+40.00  
N. 1,876,728.8634 E. 985,993.2479

SYMBOL LEGEND

- INLET
- LIGHT POLE
- POWER POLE
- SIGN
- MANHOLE
- TELEPHONE PEDESTAL
- ELECTRICAL OUTLET
- MAILBOX



PRINTING DATE: NOVEMBER 28, 2011 ~ KAG \Microstation\Sheet 5 R2.dgn

- IRON PIPE OR ROD FOUND ○ SET 5/8" x 30" REBAR
- + CUT CROSS FOUND OR SET ● PK FOUND PK NAIL ○ PK SET PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION
- T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
- BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S PROFESSIONAL NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER. IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS )  
COUNTY OF WILL )

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 39 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011 A.D.

DAVID A. CLAASSEN  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962  
LICENSE EXPIRES NOVEMBER 30, 2012  
THIS PROFESSIONAL SERVICE CONFORMS TO THE  
CURRENT ILLINOIS MINIMUM STANDARDS FOR A  
BOUNDARY SURVEY.



0 30 60 90  
SCALE: 1" = 30'

RECEIVED  
NOV 28 2011  
PLATS & LEGALS

Claassen, White & Associates, P.C.  
121 AIRPORT DRIVE, UNIT 1  
JOLIET, ILLINOIS 60431  
(815) 744-3720

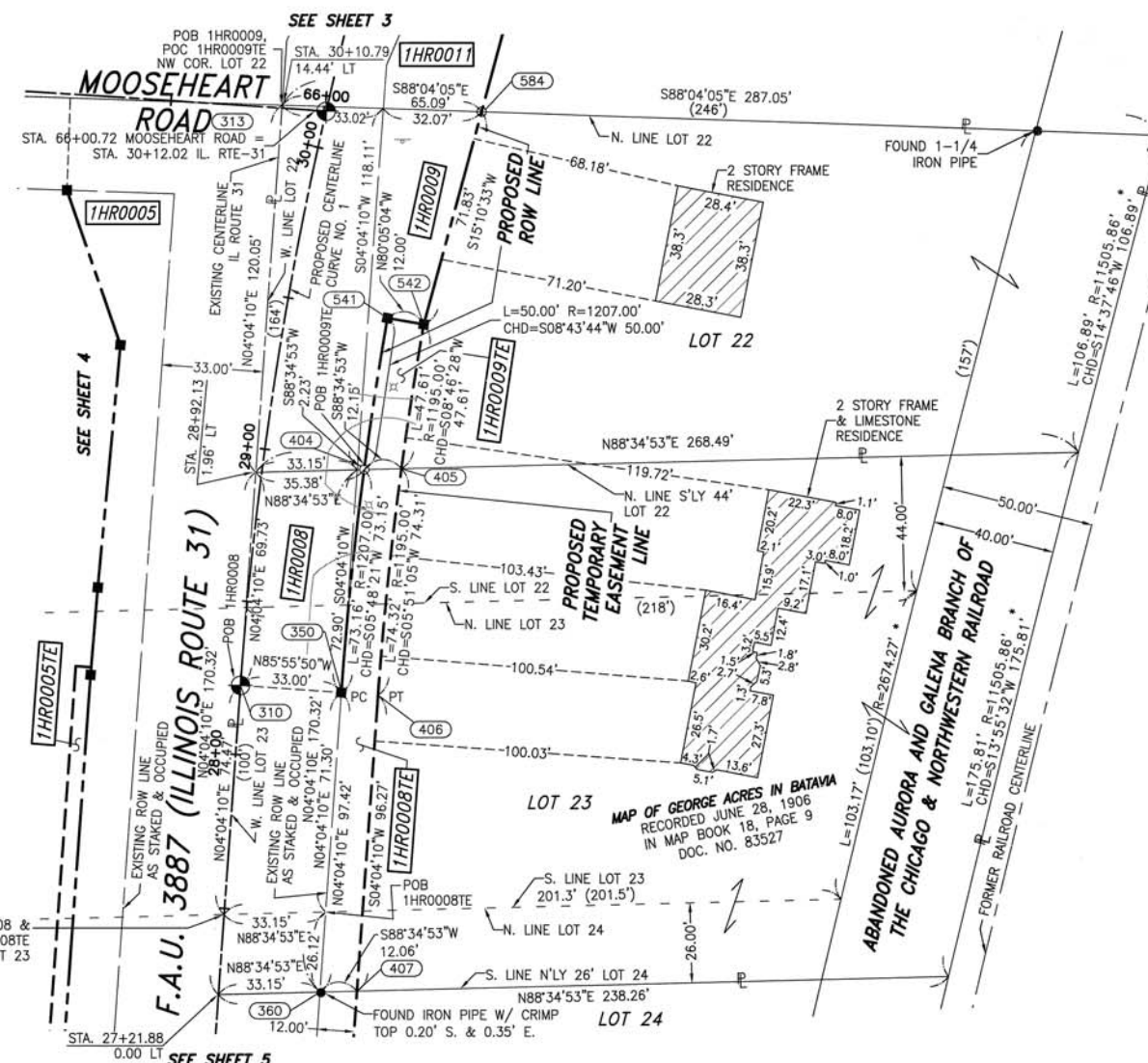
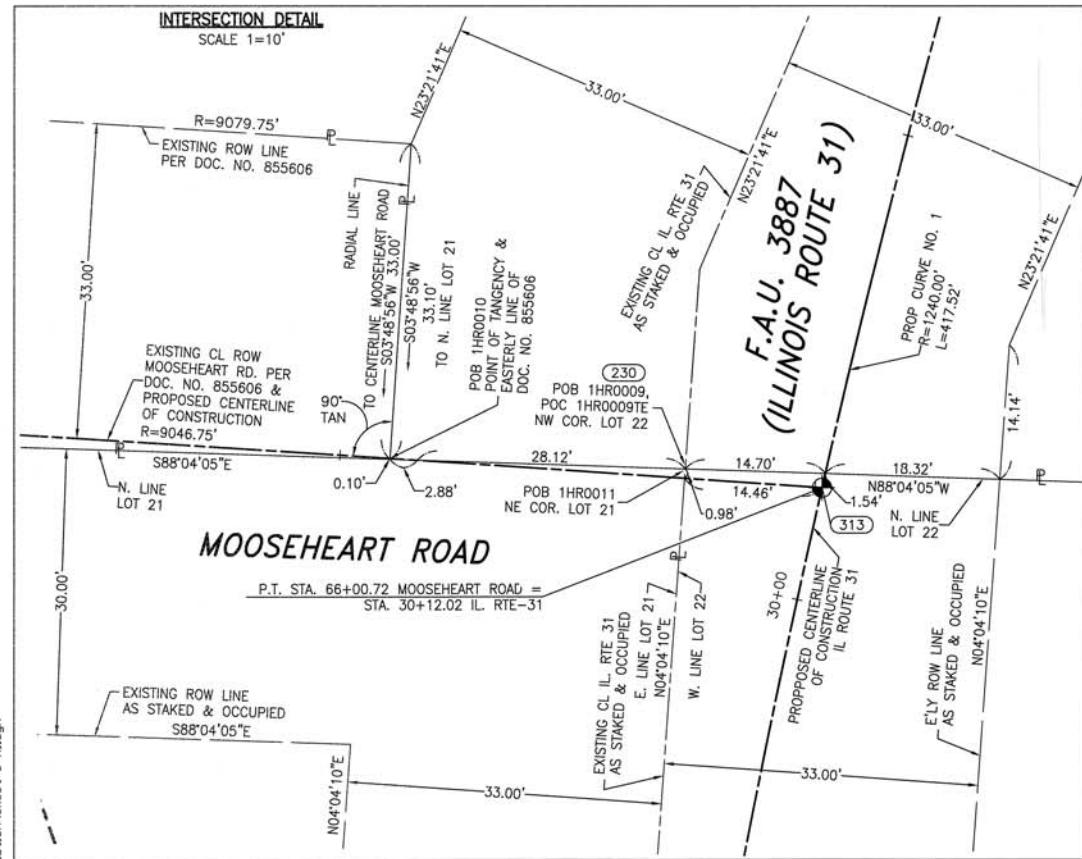
SHEET 1 IS A COVER SHEET AND NOT RECORDED.

PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
F.A.U. 3887 (IL RTE. 31)

LIMIT: @ MOOSEHEART RD. KANE COUNTY  
PROJECT JOB NO. R-91-018-10  
STATION 24+00 TO STATION 27+26.21  
SCALE: 1" = 30' SHEET 5 OF ???

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096





- LEGEND**
- SECTION LINE
  - - - QUARTER SECTION LINE
  - - - QUARTER, QUARTER SECTION LINE
  - - - PLATTED LOT LINE
  - - - PROPERTY (DEED) LINE
  - APL
  - APPARENT PROPERTY LINE
  - EXISTING CENTERLINE
  - PROPOSED CENTERLINE
  - EXISTING RIGHT OF WAY LINE
  - PROPOSED RIGHT OF WAY LINE
  - PROPOSED EASEMENT
  - AC
  - EXISTING ACCESS CONTROL LINE
  - AC
  - PROPOSED ACCESS CONTROL LINE
  - (23.456m [L23'])
  - (23.45' [COMP] [0.00'])
  - MEASURED DIMENSION METRIC WITH IMPERIAL
  - COMPUTED DIMENSION METRIC WITH IMPERIAL
  - RECORD DATA
  - EXISTING BUILDING
  - IRON PIPE OR ROD FOUND
  - SET 5/8 x 30 REBAR
  - + CUT CROSS FOUND OR SET
  - PK FOUND PK NAIL
  - PK SET PK NAIL
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION
  - T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
  - T3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
  - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
  - BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
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  - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
  - PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET.

PROJECT COORDINATES ARE SHOWN  
COORDINATE TABLE ~ IL ROUTE 31

NO.	STATION	OFFSET	-NORTH-COORDINATES-EAST-
360	27+25.05	33.00' RT.	N. 1,876,225.6436 E. 985,920.7236
407	27+26.21	45.00' RT.	N. 1,876,225.9421 E. 985,932.7752
310	28+22.48	00.00' RT.	N. 1,876,325.1639 E. 985,894.7207
350	28+22.48	33.00' RT.	N. 1,876,322.8220 E. 985,927.6375
406	28+22.48	45.00' RT.	N. 1,876,321.9704 E. 985,939.6073
404	28+97.63	33.00' RT.	N. 1,876,395.5917 E. 985,935.0367
405	28+99.60	45.00' RT.	N. 1,876,395.8925 E. 985,947.1828
542	29+49.00	45.00' RT.	N. 1,876,442.9414 E. 985,954.4448
541	29+49.00	33.00' RT.	N. 1,876,445.0078 E. 985,942.6240
584	30+23.54	49.43' RT.	N. 1,876,512.2683 E. 985,973.2491

STATE OF ILLINOIS )  
COUNTY OF WILL )

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 39 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011 A.D.

DAVID A. CLAASSEN VICE PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962  
LICENSE EXPIRES NOVEMBER 30, 2012  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



- NOTES:
- 1) ALL COORDINATES SHOWN HEREON ARE PROJECT. ALL DISTANCES SHOWN HEREON ARE GROUND.
  - 2) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83, (2007).
  - 3) THE COMBINATION FACTOR USED FOR THIS PROJECT = 0.99994637.
  - 4) \* DENOTES BEST FIT RADIUS ON RECORD DATA.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
1HR0008	DAVID A. WILKENING & JUDITH G. WILKENING, HUSBAND & WIFE, IN JOINT TENANCY	0.985	0.055	0.930	0.054	0.047	CONSTRUCTION	12-33-453-030	
1HR0009	JOHN L. CACI & SANDRA L. CACI, HUSBAND & WIFE, AS TENANTS BY THE ENTIRETY	0.712	0.135	0.577	0.090	0.013	CONSTRUCTION	12-33-200-020	

CURVE DATA	
EXISTING CENTERLINE R.O.W. CURVE NO. MH-2	PROPOSED CENTERLINE IL-31 CURVE NO. 1
Δ = 03°50'19"	Δ = 19°17'31"
D = 00'38"00"	D = 04'37"14"
R = 9046.75'	R = 1240.00'
L = 606.10'	L = 417.52'
T = 303.16'	T = 210.75'
E = 5.08'	E = 17.78'
203 PC STA. 59+94.62 N. 1,876,535.5589 E. 985,316.9960	310 PC STA. 28+22.48 N. 1,876,325.1639 E. 985,894.7207
208 PI STA. 62+97.78 N. 1,876,534.2638 E. 985,597.3475	210 PI STA. 30+33.23 N. 1,876,535.3866 E. 985,909.6773
313 PT STA. 66+00.72 N. 1,876,512.4657 E. 985,922.5412	311 PT STA. 32+40.00 N. 1,876,728.8634 E. 985,993.2479

- SYMBOL LEGEND
- INLET
  - LIGHT POLE
  - POWER POLE
  - SIGN
  - MANHOLE
  - TELEPHONE PEDESTAL
  - ELECTRICAL OUTLET
  - MAILBOX

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096

PART OF SECTION 21, 28 AND 33 IN T39N, R8E OF THE 3rd PM, BATAVIA TOWNSHIP, KANE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING	PART TAKEN	REMAINDER	PREV. DED.	EASEMENT	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY	
		ACRES	ACRES	ACRES	ACRES	ACRES				
1HR0010	MOOSE INTERNATIONAL INCORPORATED	832.044	0.528	831.516	0.362	0.228	CONSTRUCTION	12-33-200-001		
1HR0010TE-A								12-33-200-017		
1HR0010TE-B										
1HR0011		14.232	0.534	13.698	0.354	0.010	CONSTRUCTION	12-33-200-001		
1HR0011PE							437 SQ. FT.			
1HR0011TE-A							0.030		CONSTRUCTION	
1HR0011TE-B							0.059		CONSTRUCTION	

NOTE: \*THE TOTAL HOLDINGS FOR MOOSE INTERNATIONAL INCORPORATED ARE ESTABLISHED BY RECORD INFORMATION FROM A PLAT OF SURVEY PROVIDED BY MOOSEHEART, DATED FEBRUARY 11, 2002, PREPARED BY ADVANCED SURVEYING AND MAPPING, INC. \* (THESE TOTAL HOLDINGS WERE NOT SURVEYED BY CLAASSEN, WHITE & ASSOCIATES, P.C.)

**LEGEND**

SECTION CORNER (9 10 16 15)      QUARTER SECTION CORNER (16 15)

SECTION LINE  
 QUARTER SECTION LINE  
 QUARTER, QUARTER SECTION LINE  
 PLATTED LOT LINE  
 PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE  
 EXISTING CENTERLINE  
 PROPOSED CENTERLINE  
 EXISTING RIGHT OF WAY LINE  
 PROPOSED RIGHT OF WAY LINE  
 PROPOSED EASEMENT  
 EXISTING ACCESS CONTROL LINE  
 PROPOSED ACCESS CONTROL LINE

AC EXISTING ACCESS CONTROL LINE  
 AC PROPOSED ACCESS CONTROL LINE

(23.45m [L23'] (23.45' (COMP) [0.00'])  
 MEASURED DIMENSION METRIC WITH IMPERIAL  
 COMPUTED DIMENSION METRIC WITH IMPERIAL  
 RECORD DATA

EXISTING BUILDING

IRON PIPE OR ROD FOUND      SET 5/8" x 30" REBAR  
 CUT CROSS FOUND OR SET      PK FOUND PK NAIL      PK SET PK NAIL

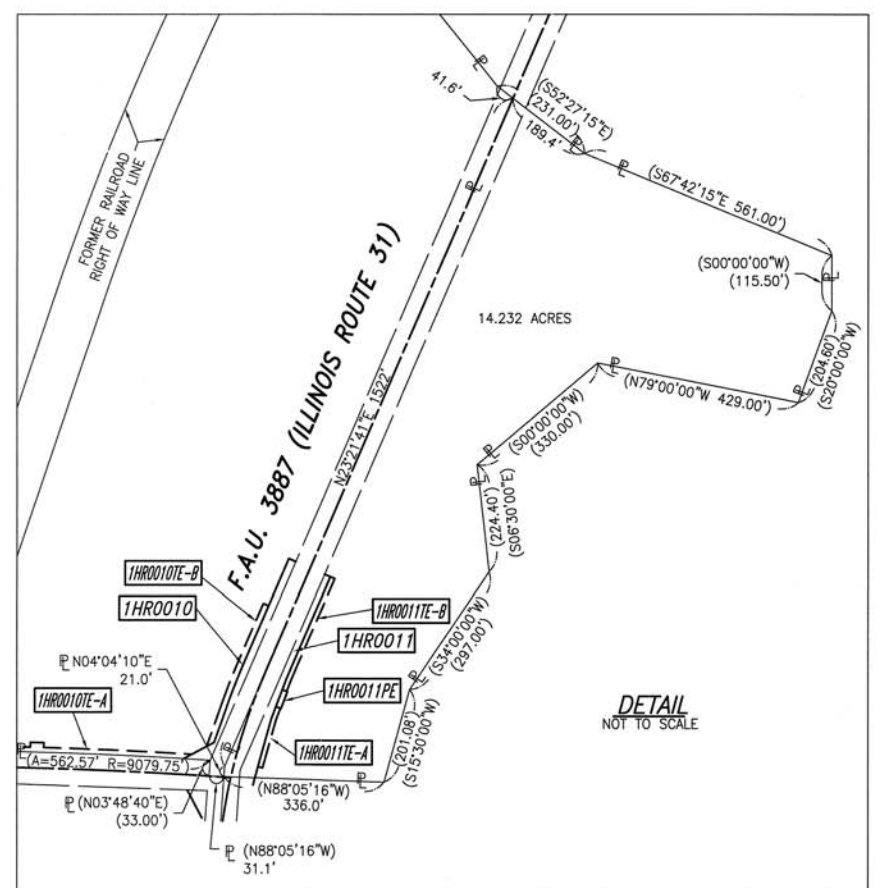
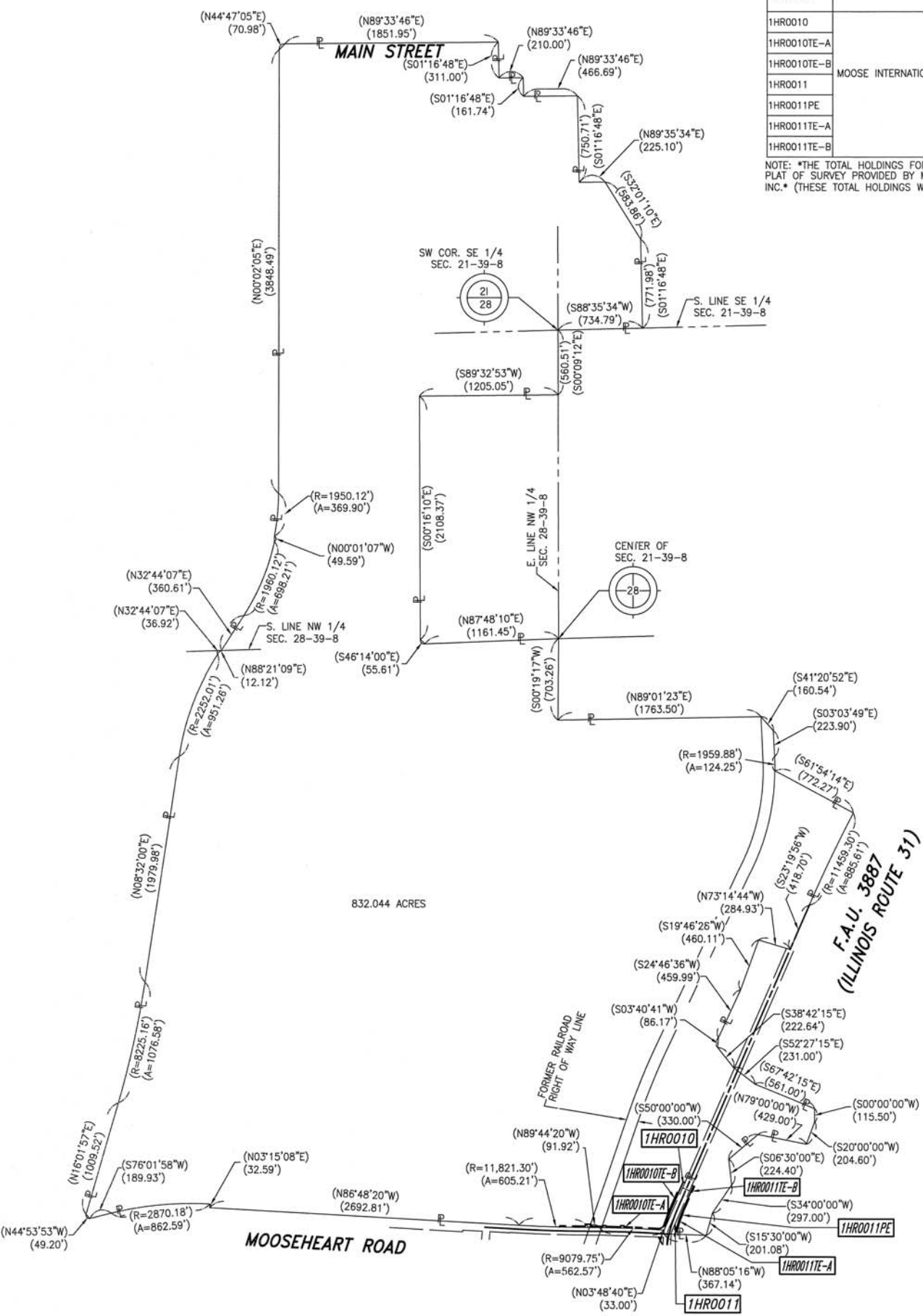
T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION  
 T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.  
 T3 BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.

BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.  
 BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.  
 BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.

STAKING OF PROPOSED RIGHT OF WAY.  
 SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.  
 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)  
 RIGHT OF WAY STAKING PROPOSED TO BE SET.



- IRON PIPE OR ROD FOUND      ○ SET 5/8" x 30" REBAR
- + CUT CROSS FOUND OR SET      ● PK FOUND PK NAIL      ○ PK SET PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION
- T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
- T3 BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
- BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY.
- SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
- BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS )  
 COUNTY OF WILL ) SS

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 28 AND 33, TOWNSHIP 39 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011 A.D.

DAVID A. CLAASSEN      VICE PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962  
 LICENSE EXPIRES NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE  
 CURRENT ILLINOIS MINIMUM STANDARDS FOR A  
 BOUNDARY SURVEY.

STATE OF ILLINOIS  
 DAVID A. CLAASSEN  
 JOLIET, ILL. NO. 2962  
 PROFESSIONAL LAND SURVEYOR

0 600 1200 1800  
 SCALE: 1" = 600'

RECEIVED *RC*  
 OCT 24 2011  
 PLATS & LEGALS

**Clasassen, White & Associates, P.C.**  
 121 AIRPORT DRIVE, UNIT 1  
 JOLIET, ILLINOIS 60431  
 (815) 744-3720

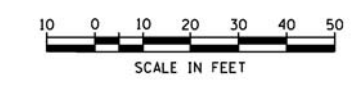
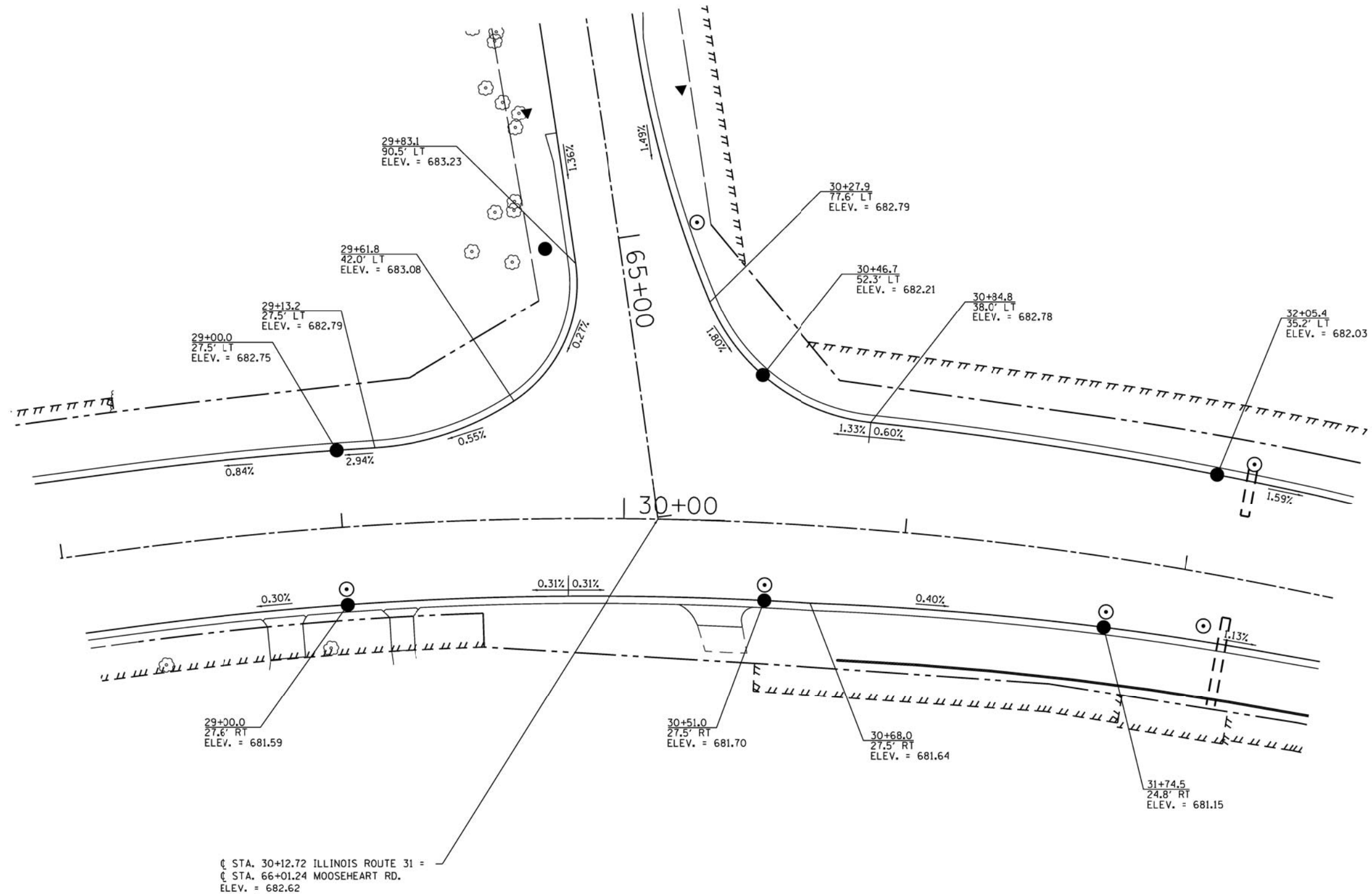
SHEET 1 IS A COVER SHEET AND NOT RECORDED.

**PLAT OF HIGHWAYS  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.U. 3887 (IL RTE. 31)**

LIMIT: @ MOOSEHEART RD.      KANE COUNTY  
 PROJECT      JOB NO. R-91-018-10  
 STATION NONE      TO STATION NONE  
 SCALE: 1" = 600'      SHEET 7 OF ???

**BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196-1096**





COMPANY NAME: HRGreen  
 PROJECT CONTACT: S. PERNAL  
 DATE PLOTTED: 6/26/2012 12:47:26 PM  
 FILE NAME: 8610019614-igp-01.dgn  
 PLOT DRIVER: pdf.plt  
 PEN TABLE: standard-trans.tbl



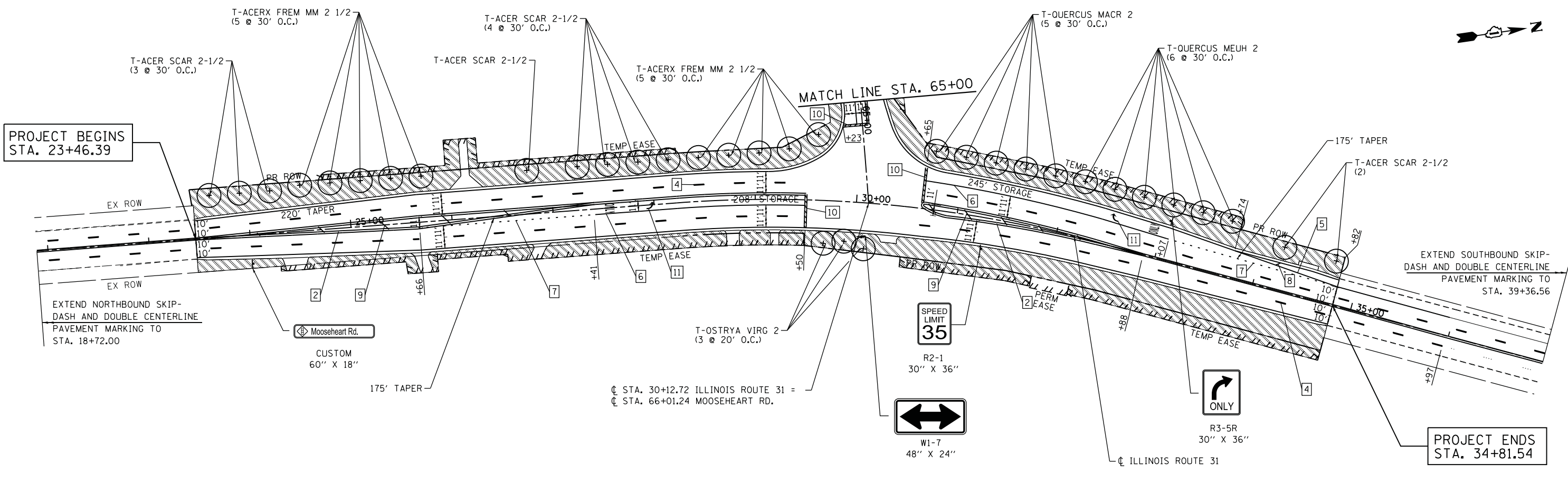
USER NAME = spernal	DESIGNED - C. HARTKE	REVISED -
	DRAWN - S. PERNAL	REVISED -
PLOT SCALE = 1"=20'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 6/26/2012	DATE - 6/26/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTERSECTION GRADING PLAN**  
**ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 43
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	

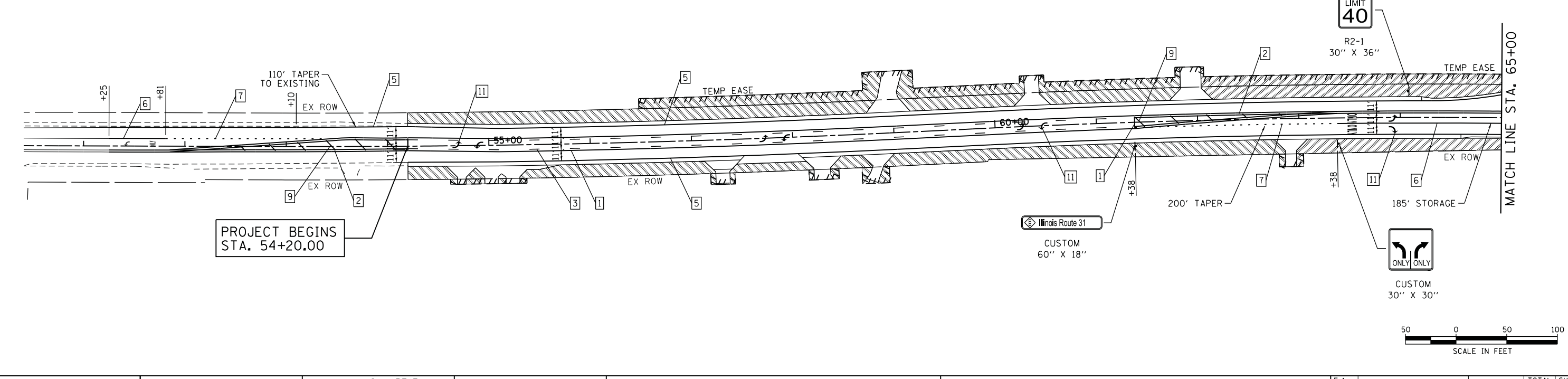
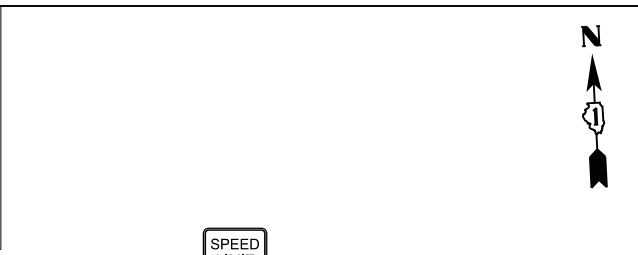
SCALE: 1"=20'    SHEET NO. 1 OF 1 SHEETS    STA. 28+00.00 TO STA. 30+50.00



**LEGEND**

1 LINE 4" (YELLOW SOLID LINE)	5 LINE 4" (WHITE SOLID LINE)	10 LINE 24" (WHITE STOP BAR)
2 LINE 4" (DOUBLE YELLOW SOLID LINES)	6 LINE 6" (WHITE SOLID LINE)	11 LETTERS AND SYMBOLS (TYP.)
3 LINE 4" (YELLOW - 10' DASH, 30' SKIP)	7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)	TOPSOIL, 4" AND SODDING, SALT TOLERANT
4 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)	8 LINE 12" (WHITE DIAGONAL LINE)	
	9 LINE 12" (YELLOW DIAGONAL LINE @ 75' OR 5 MIN.)	

- NOTES:**
- PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ALONG ILLINOIS ROUTE 31.
  - PAVEMENT MARKINGS SHALL BE URETHANE ALONG MOOSEHEART ROAD.
  - RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED ALONG ILLINOIS ROUTE 31. SEE DISTRICT DETAIL TC-11.
  - RECESSED REFLECTIVE PAVEMENT MARKERS SHALL BE USED ALONG MOOSEHEART ROAD. SEE KANE COUNTY STANDARD KC781001.
  - SEE PLAN AND PROFILES FOR TREATMENT OF EXISTING TREES TO BE REMAIN.



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: Illinois Professional Design Firm #184-001322  
 DATE PLOTTED: 7/25/2012 10:11:40 AM  
 FILE NAME: 86100196\_14-pm.dgn  
 PLOT DRIVER: pdfcut  
 PEN TABLE: standard-trans.tbl

USER NAME = char7ke	DESIGNED - C. HARTKE	REVISED - S. LIPKIE 7/2012
	DRAWN - S. PERNAL	REVISED -
PLOT SCALE = 1"=50'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 7/25/2012	DATE - 7/2012	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING, AND RESTORATION PLAN PLAN**  
**ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=50'    SHEET NO. 1 OF 1 SHEETS    STA. BEG TO STA. END

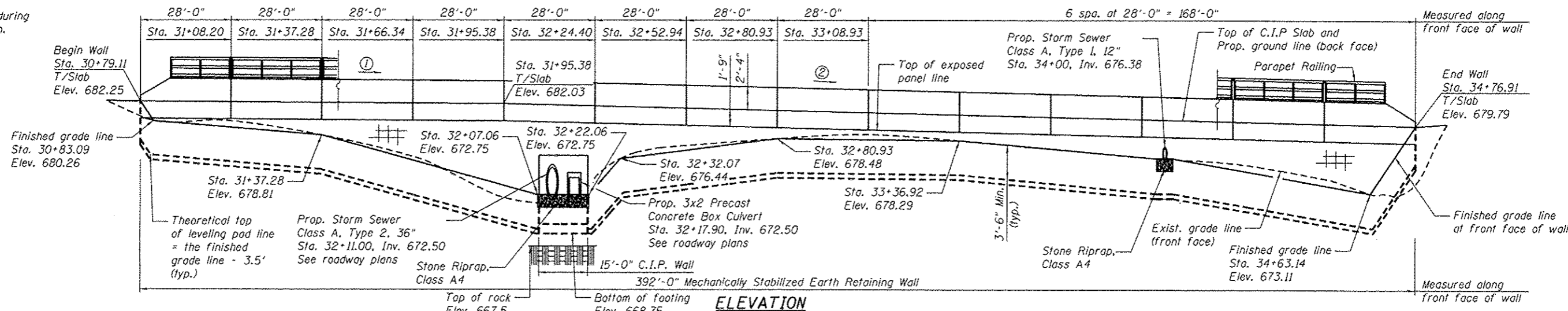
F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 44
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	

Benchmark:  
 "□" cut on north end or concrete headwall on east side of Il. Route 31,  
 ±250' north of Mooseheart Road. Elevation = 684.68

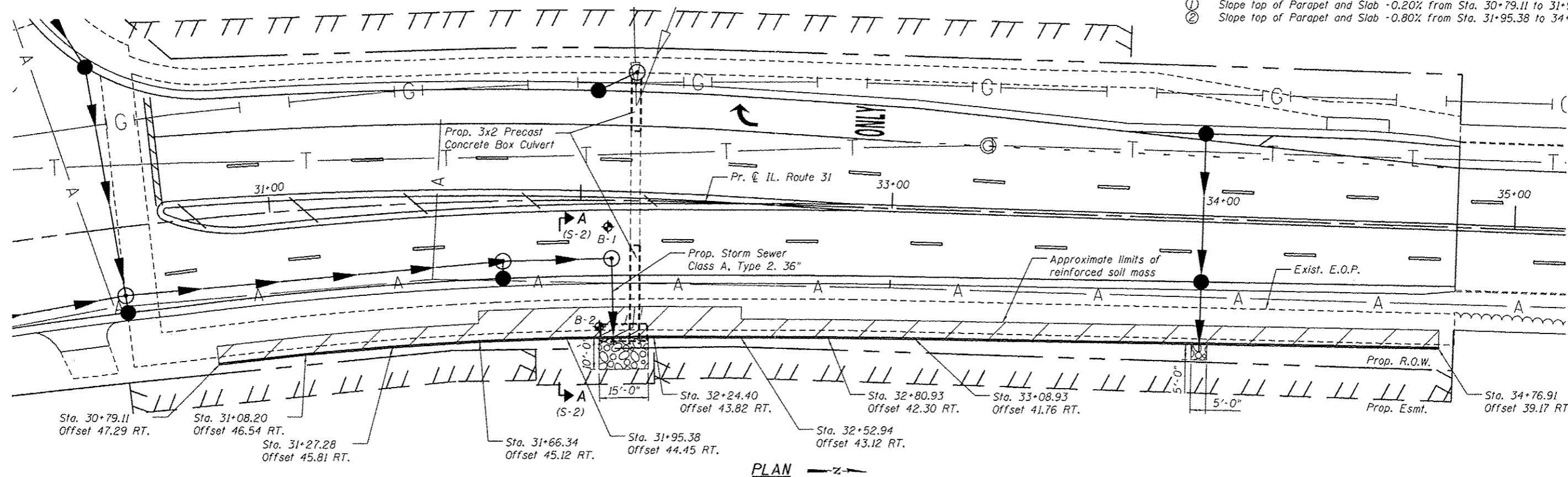
Note:  
 Offsets are measured from Prop. C of  
 IL Rte. 31 to the front face of wall.

Existing Structure: None

To be constructed during  
 Stage I construction.  
 See roadway plans.



- ① Slope top of Parapet and Slab -0.20% from Sta. 30+79.11 to 31+95.38
- ② Slope top of Parapet and Slab -0.80% from Sta. 31+95.38 to 34+76.91

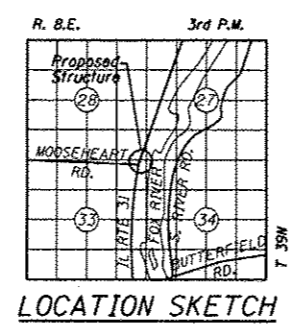


PLAN

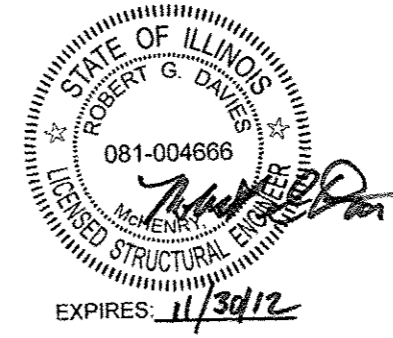
**DESIGN SPECIFICATIONS**  
 2010 AASHTO LRFD Bridge Design Specifications,  
 5th Edition with 2010 Interims

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  psi (Cast in place)  
 $f'_c = 4,500$  psi (Precast Units)  
 $f_y = 60,000$  psi (Reinforcement)

**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.037  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.101  
 Soil Site Class = B



**APPROVED**  
 For Structural Adequacy Only  
*Robert G. Davies*  
 Engineer of Bridges & Structures



**GENERAL PLAN AND ELEVATION**  
 IL. ROUTE 31 / MOOSEHEART RD.  
 FAU. RTE. 3887, SEC. AR-N-2  
 KANE COUNTY  
 STATION 30+79.11 TO 34+76.91  
 STRUCTURE NO. 045-W015

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 7/31/2012 2:03:50 PM  
 FILE NAME: 85100196.14-Rppn-01.dwg  
 PLOT DRIVER: pct.plt  
 PEN TABLE: Struct 20x24.tbl



USER NAME = whood	DESIGNED - M. HARDING	REVISED
	CHECKED - R. DAVIES	REVISED
PLOT SCALE =	DRAWN - W. HOOD	REVISED
PLOT DATE = 7/31/2012	CHECKED -	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHEET NO. S-1 OF S-5 SHEETS

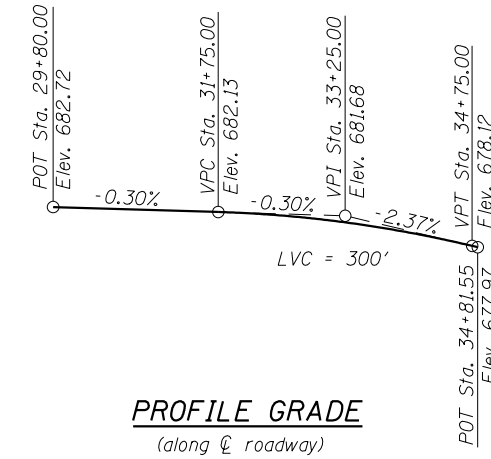
F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 45	SHEET NO. 45
CONTRACT NO. 60P65				ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Top of concrete anchorage slab shall be brush finished according to Article 503.16(b)(1) of the Standard Specifications for "sidewalks".
3. All cast-in-place concrete edges shall have a 3/4" chamfer.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Stone Riprap, Class A4	Sq. Yd.	21
Filter Fabric	Sq. Yd.	21
Structure Excavation	Cu. Yd.	515
Concrete Structures	Cu. Yd.	7.4
Concrete Superstructure	Cu. Yd.	161.0
Protective Coat	Sq. Yd.	406
Reinforcement Bars	Pound	750
Reinforcement Bars, Epoxy Coated	Pound	21650
Parapet Railing	Foot	375
Geocomposite Wall Drain	Sq. Yd.	16
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2355

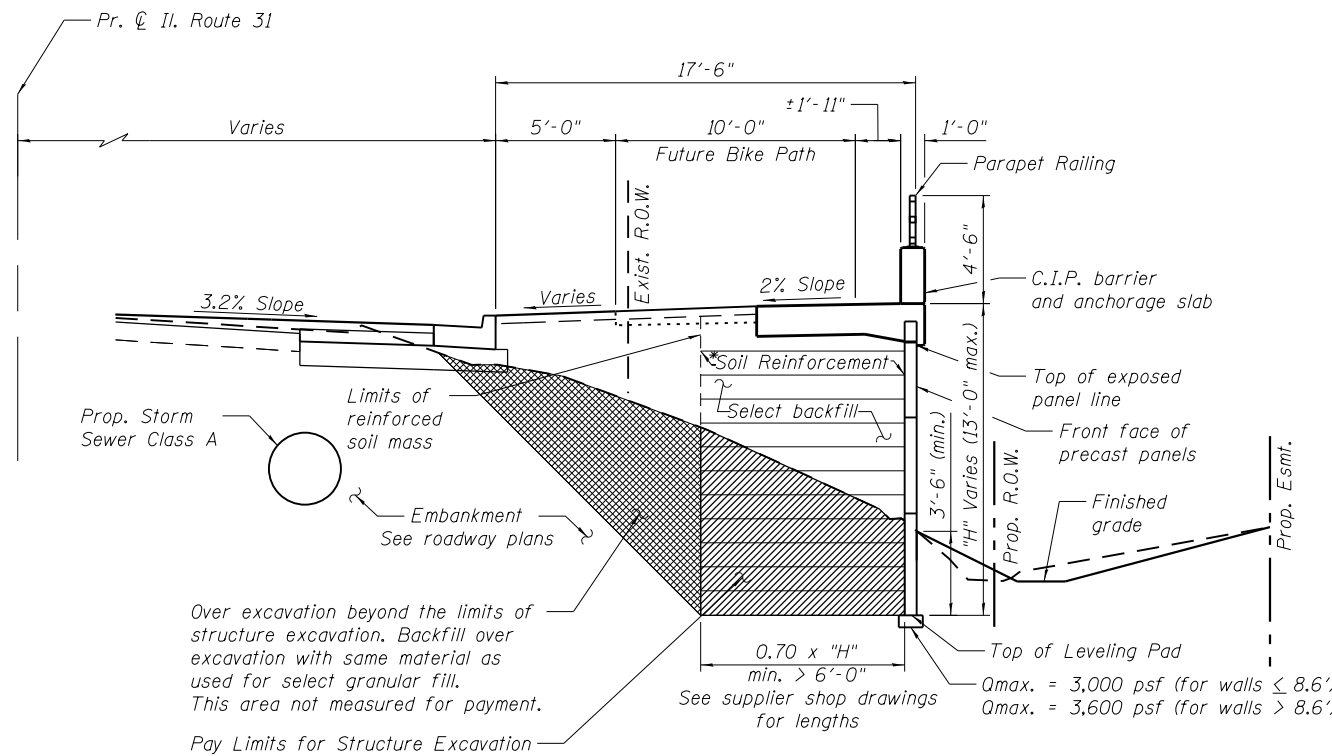


**INDEX OF SHEETS**

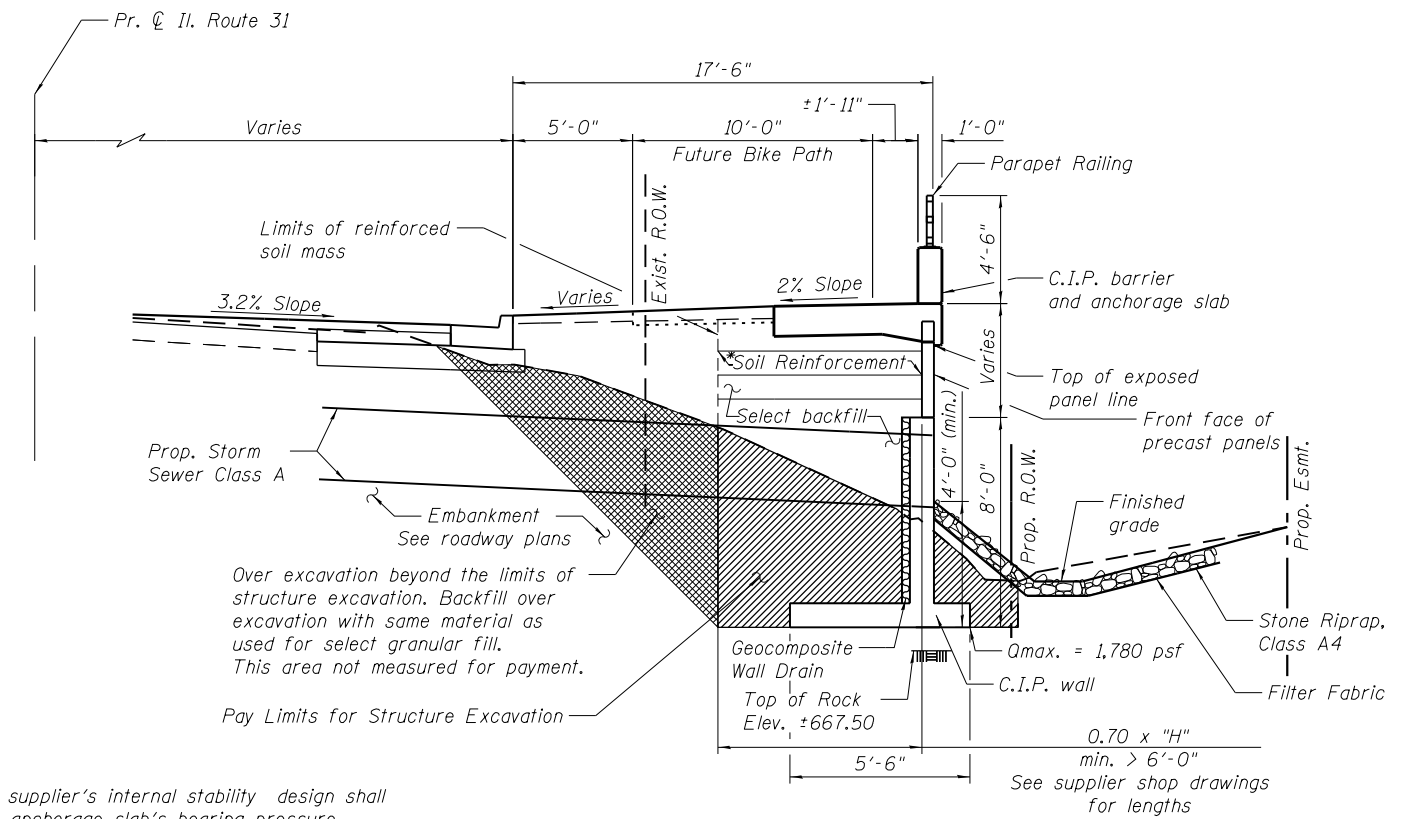
S-1	General Plan and Elevation
S-2	General Data
S-3	Concrete Details
S-4	Parapet Railing
S-5	Boring Logs

**CURVE DATA**

F.A.U. Route 3887 (IL Rte 31)  
 P.I. Sta. = 30+33.23  
 $\Delta = 19^\circ 17' 31''$  (RT)  
 $D = 4^\circ 37' 14''$   
 $R = 1,240.00'$   
 $T = 210.75'$   
 $L = 417.52'$   
 $E = 17.78'$   
 P.C. STA. = 28+22.48  
 P.T. STA. = 32+40.00



**TYPICAL SECTION**



**SECTION A-A**

\* The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 8/1/2012 3:04:15 PM  
 FILE NAME: 86100196\_14-Wgn-01.dgn  
 PLOT DRIVER: pafach  
 PEN TABLE: Struct.tbl



USER NAME = whood	DESIGNED - M. HARDING	REVISED M. HARDING 8/3/2012
	CHECKED - R. DAVIES	REVISED
PLOT SCALE =	DRAWN - W. HOOD	REVISED
PLOT DATE = 8/1/2012	CHECKED -	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
 STRUCTURE NO. 045-W015**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	46
CONTRACT NO. 60P65				

SHEET NO. S-2 OF S-5 SHEETS

ILLINOIS FED. AID PROJECT



**HEADWALL  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d (E)	16	#6	3'-9"	┌
h	14	#4	14'-8"	—
h <sub>h</sub>	4	#4	5'-0"	—
t	19	#5	5'-2"	—
t <sub>i</sub>	16	#5	5'-2"	—
u	4	#4	10'-10"	┌
u <sub>u</sub>	2	#4	8'-4"	└
v	16	#5	6'-8"	—
v <sub>i</sub>	11	#5	6'-8"	—
w	12	#5	14'-8"	—
Concrete Structures			Cu. Yd.	7.4
Reinforcement Bars			Pound	750
Reinforcement Bars, Epoxy Coated			Pound	90
Geocomposite Wall Drain			Sq. Yd.	16

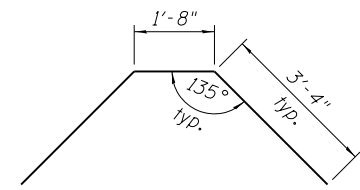
\* Trim bars around openings to fit

**BARRIER  
BILL OF MATERIAL**

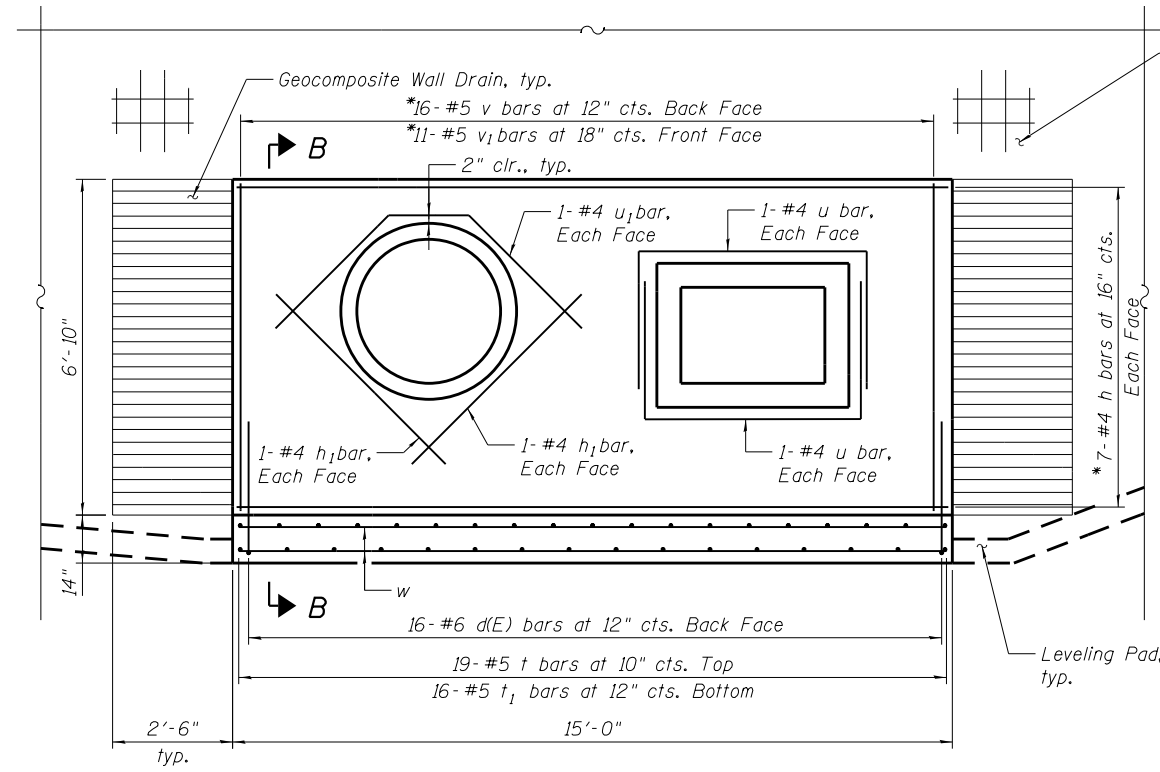
Bar quantities for one segment

Bar	No.	Size	Length	Shape	Total No.	
a (E)	29	#5	7'-11"	┌	406	
a <sub>i</sub> (E)	29	#5	6'-10"	└	406	
b (E)	17	#5	27'-8"	—	238	
d <sub>1</sub> (E)	58	#6	5'-1"	┌	812	
d <sub>2</sub> (E)	8	#4	2'-6"	┌	112	
e (E)	8	#4	27'-8"	—	112	
					Total for One Segment	Total for All Segments
Concrete Superstructure			Cu. Yd.	11.5	161.0	
Reinforcement Bars, Epoxy Coated			Pound	1,540	21,560	
Protective Coat			Sq. Yd.	29	406	

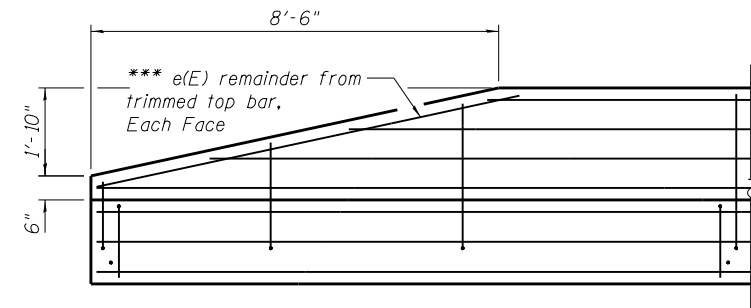
\*\* b(E), and d<sub>1</sub>(E) bars may be trimmed to fit.  
\*\*\* e(E) bar to be trimmed at end barrier. Use remainder in tapered end.



**u<sub>1</sub>(E) BAR**

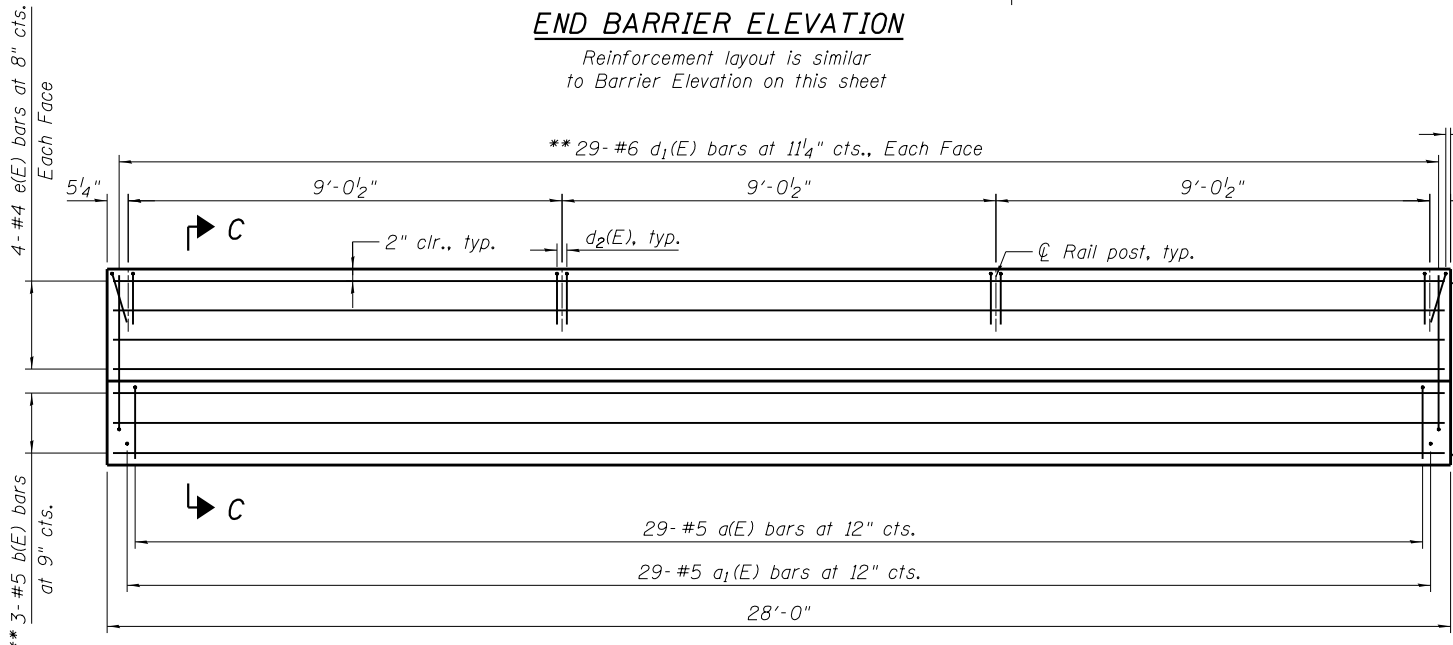


**HEADWALL ELEVATION**



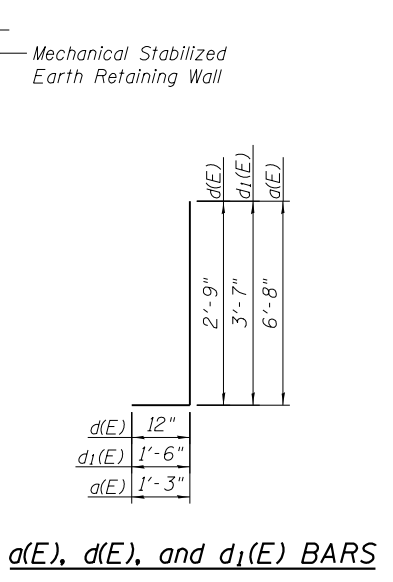
**END BARRIER ELEVATION**

Reinforcement layout is similar to Barrier Elevation on this sheet



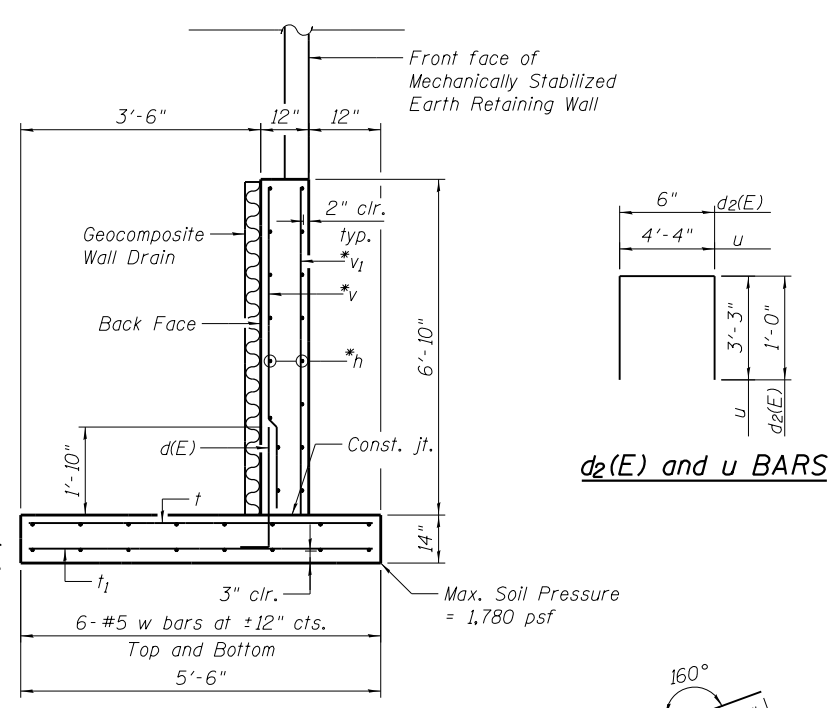
**BARRIER ELEVATION**

Shown for one segment, Total segments = 14  
All concrete edges shall have a 3/4" chamfer

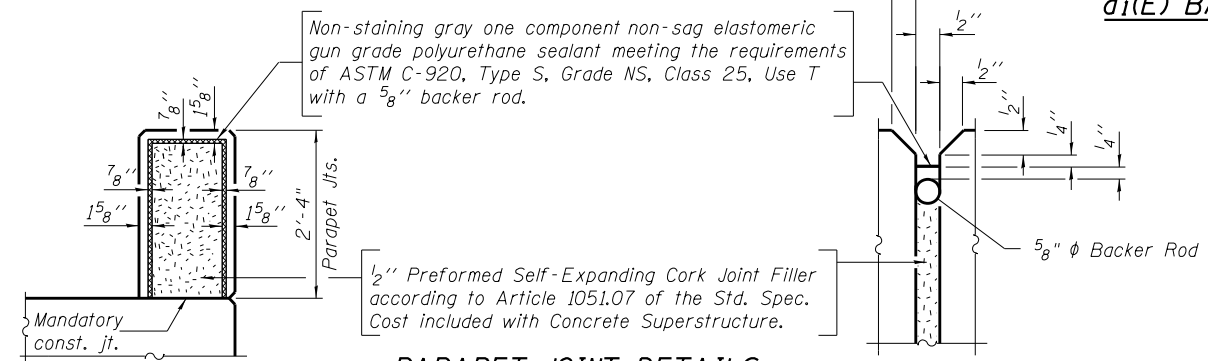


**SECTION B-B**

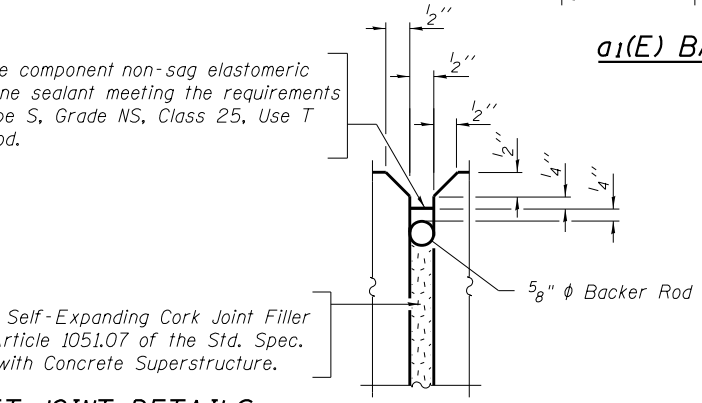
**a(E), d(E), and d<sub>1</sub>(E) BARS**



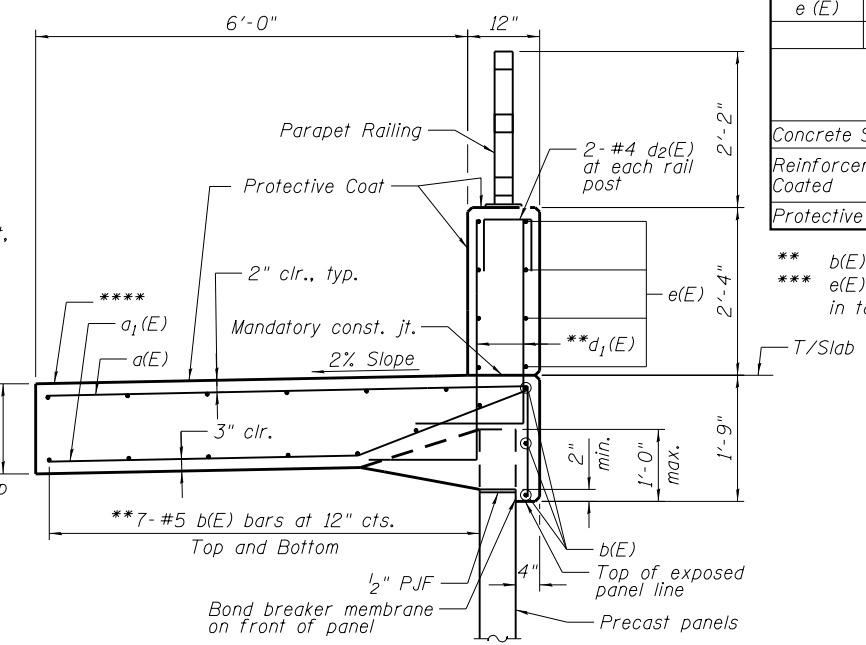
**d<sub>2</sub>(E) and u BARS**



**PARAPET JOINT DETAILS**



**a<sub>1</sub>(E) BAR**



**SECTION C-C**

\*\*\*\* Contraction joints in anchorage slab shall be located at parapet joints

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 8/1/2012 5:04:23 PM  
FILE NAME: 86100196\_14-Wall-01.dgn  
PLOT DRIVER: pdfcut  
PEN TABLE: Struct.tbl



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	CHECKED - R. DAVIES	REVISED	
PLOT SCALE =	DRAWN - W. HOOD	REVISED	
PLOT DATE = 8/1/2012	CHECKED -	REVISED	

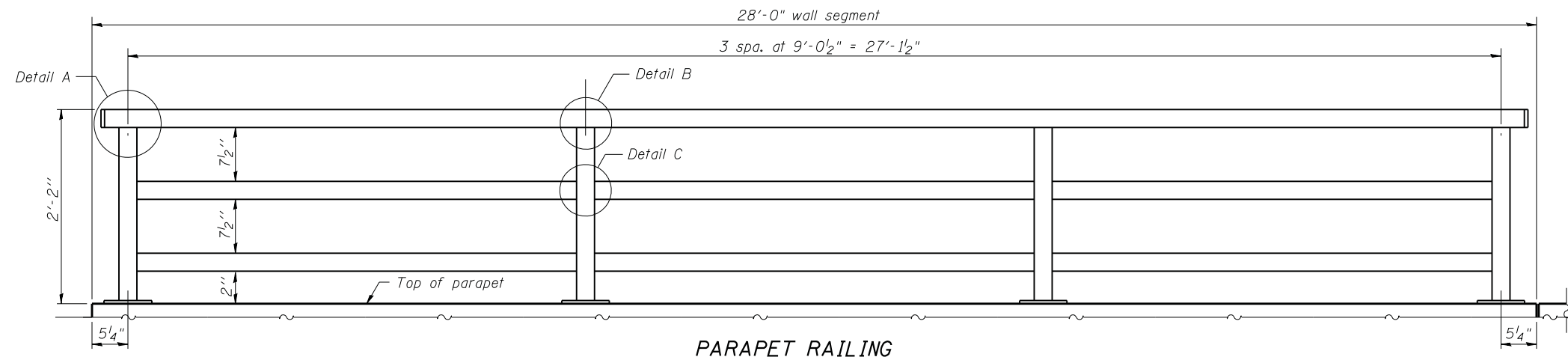
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE DETAILS  
STRUCTURE NO. 045-W015**

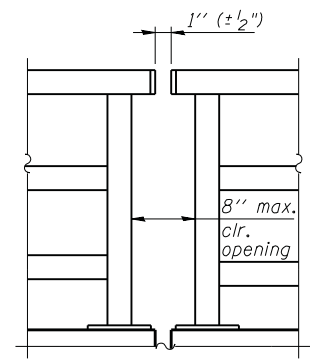
SHEET NO. S-3 OF S-5 SHEETS

F.A. RTE. = 3887	SECTION = AR-N-2	COUNTY = KANE	TOTAL SHEETS = 85	SHEET NO. = 47
CONTRACT NO. = 60P65			ILLINOIS FED. AID PROJECT	

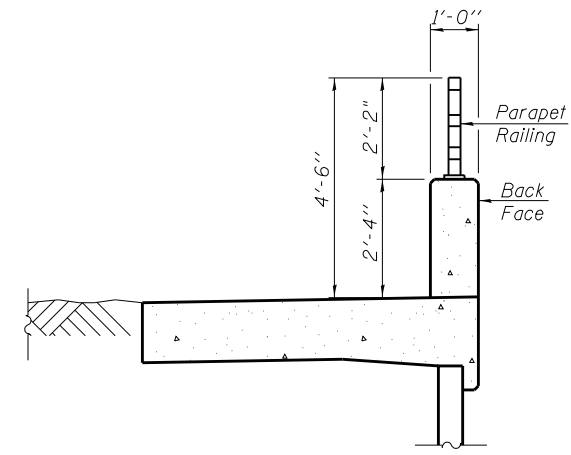
Notes:  
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



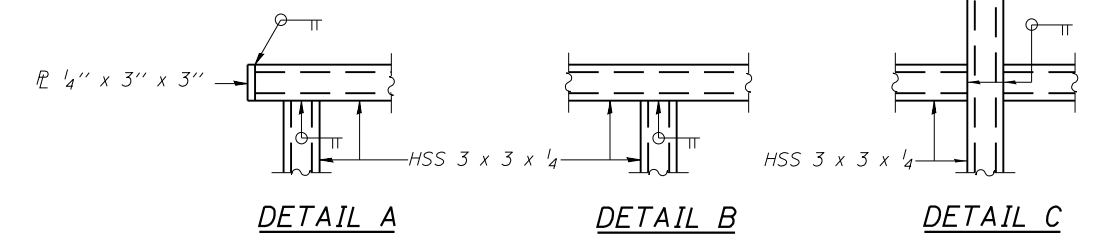
**PARAPET RAILING  
ELEVATION**  
(Inside Face of Three Element Rail)  
(End Treatment is similar with 2 spa. at 9'-0 1/2" = 18'-1")



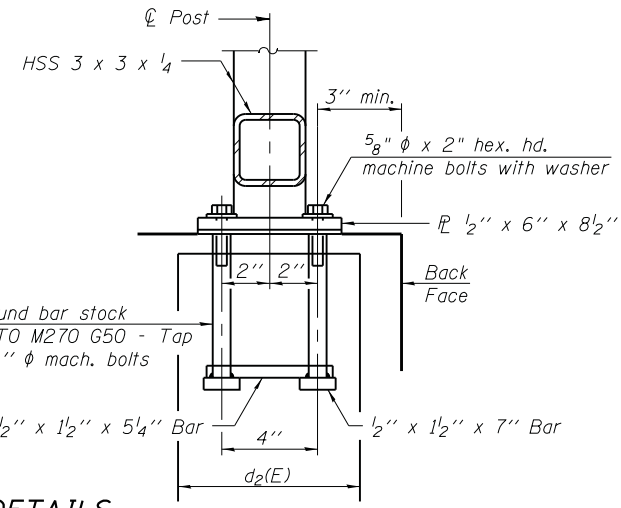
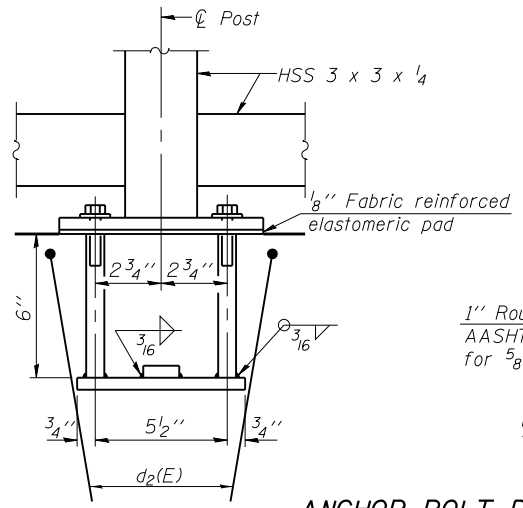
**PARAPET RAILING  
ELEVATION AT JOINT  
BETWEEN SEGMENTS**



**SECTION THRU PARAPET**

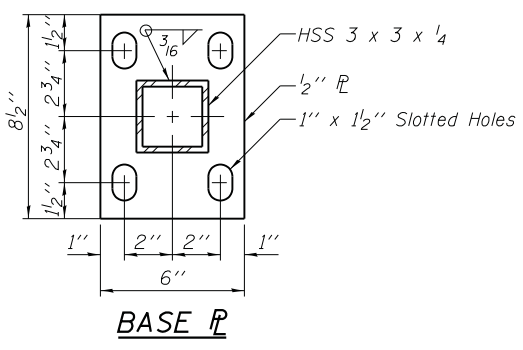


**DETAIL A      DETAIL B      DETAIL C**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8"  $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**BASE PL**

**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing	Foot	375

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/21/2012 4:19:55 PM  
FILE NAME: 0610019614-Wall-01.dgn  
PLOT DRIVER: pdfcut  
PEN TABLE: Struct 11x17.tbl



USER NAME = whood	DESIGNED - M. HARDING	REVISED
	CHECKED - R. DAVIES	REVISED
PLOT SCALE =	DRAWN - W. HOOD	REVISED
PLOT DATE = 6/21/2012	CHECKED -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PARAPET RAILING  
STRUCTURE NO. 045-W015**

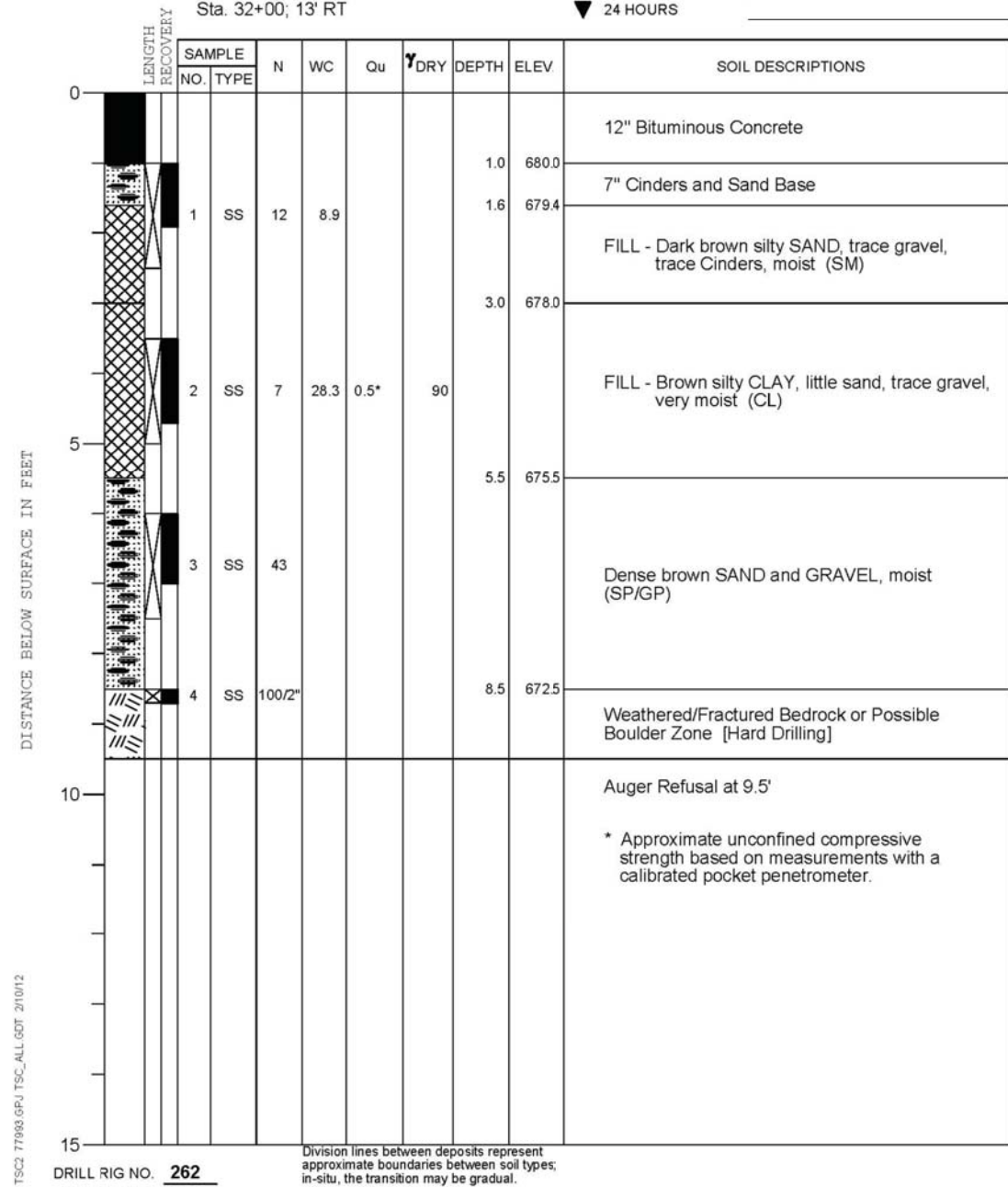
SHEET NO. S-4 OF S-5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	48
				CONTRACT NO. 60P65
ILLINOIS FED. AID PROJECT				

PROJECT **Retaining Wall, IL Rte. 31 at Mooseheart Road, North Aurora, Illinois**  
 CLIENT **HR Green, Inc., McHenry, Illinois**  
 BORING **1** DATE STARTED **2-6-12** DATE COMPLETED **2-6-12** JOB **L-77,993**



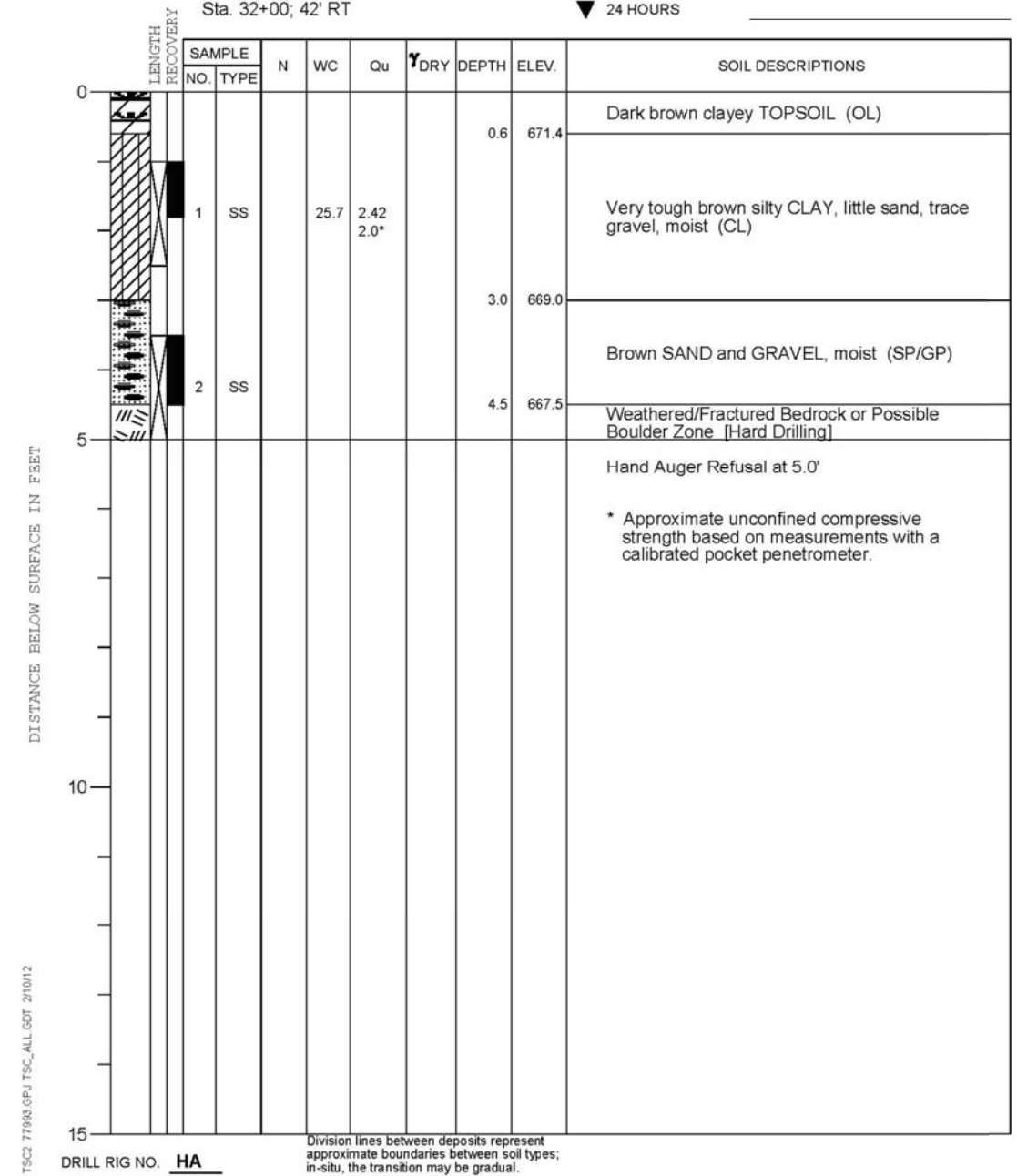
ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **681.0** WHILE DRILLING **Dry**  
 END OF BORING **671.5** AT END OF BORING **Dry**  
 Sta. 32+00; 13' RT 24 HOURS



PROJECT **Retaining Wall, IL Rte. 31 at Mooseheart Road, North Aurora, Illinois**  
 CLIENT **HR Green, Inc., McHenry, Illinois**  
 BORING **2** DATE STARTED **2-6-12** DATE COMPLETED **2-6-12** JOB **L-77,993**



ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **672.0** WHILE DRILLING **Dry**  
 END OF BORING **667.0** AT END OF BORING **Dry**  
 Sta. 32+00; 42' RT 24 HOURS



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/21/2012 11:01:48 AM  
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 PEN TABLE: Struct.tbl



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PLOT SCALE =	DRAWN - W. HOOD	REVISED
PLOT DATE = 6/21/2012	CHECKED -	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS  
 STRUCTURE NO. 045-W015

SHEET NO. S-5 OF S-5 SHEETS

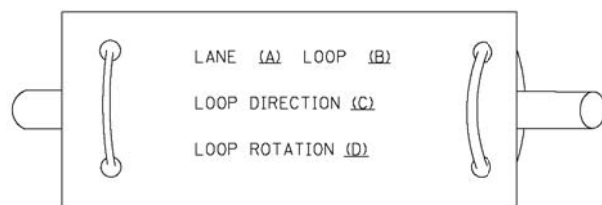
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3887	AR-N-2	KANE	85	49
CONTRACT NO. 60P65			ILLINOIS FED. AID PROJECT	



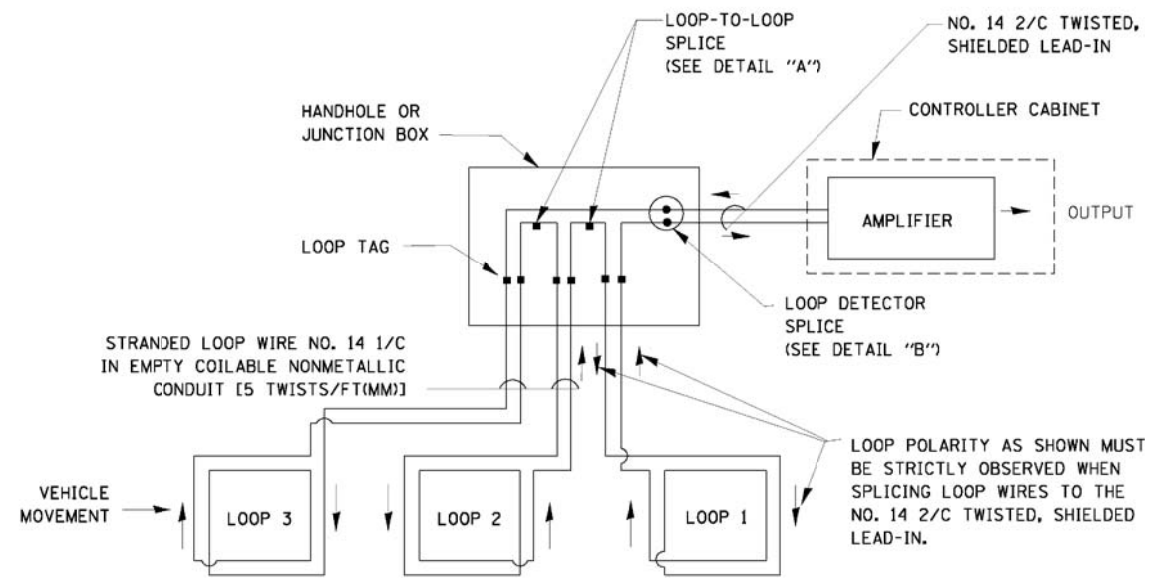
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

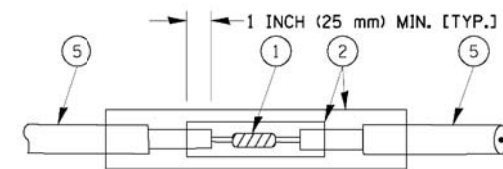


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

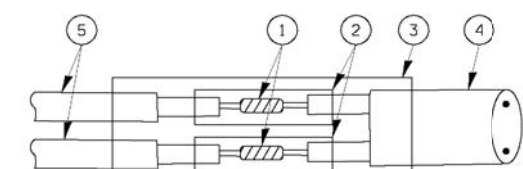


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

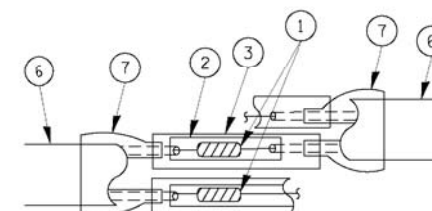


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

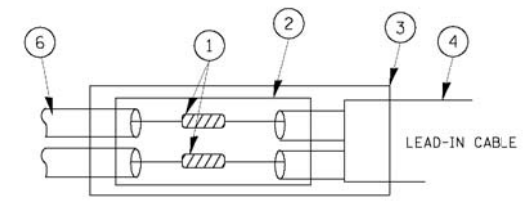


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

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 PROJECT CONTACT: [blank]  
 DATE PLOTTED: 6/26/2012 12:48:41 PM  
 FILE NAME: 861001961.rvt  
 PLOT DRIVER: pnf.plt  
 PEN TABLE: standard-trans.tbl

HRGreen.com  
 Illinois Professional Design Firm  
 # 181-001322

USER NAME = spernal	DESIGNED - DAD	REVISED -
	DRAWN - BCK	REVISED -
PLOT SCALE =	CHECKED - DAD	REVISED -
PLOT DATE = 6/26/2012	DATE - 10-28-09	REVISED -

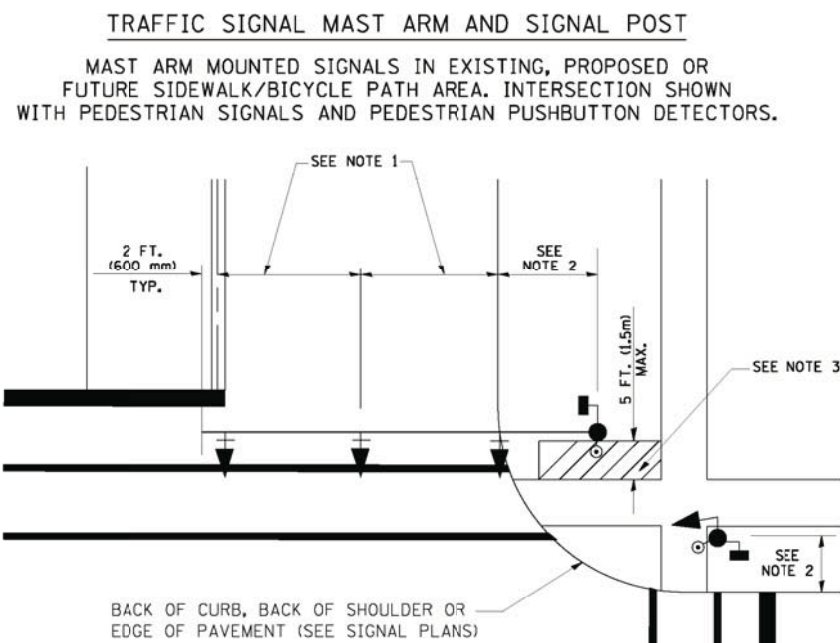
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET NO. 1 OF 7 SHEETS STA. TO STA.

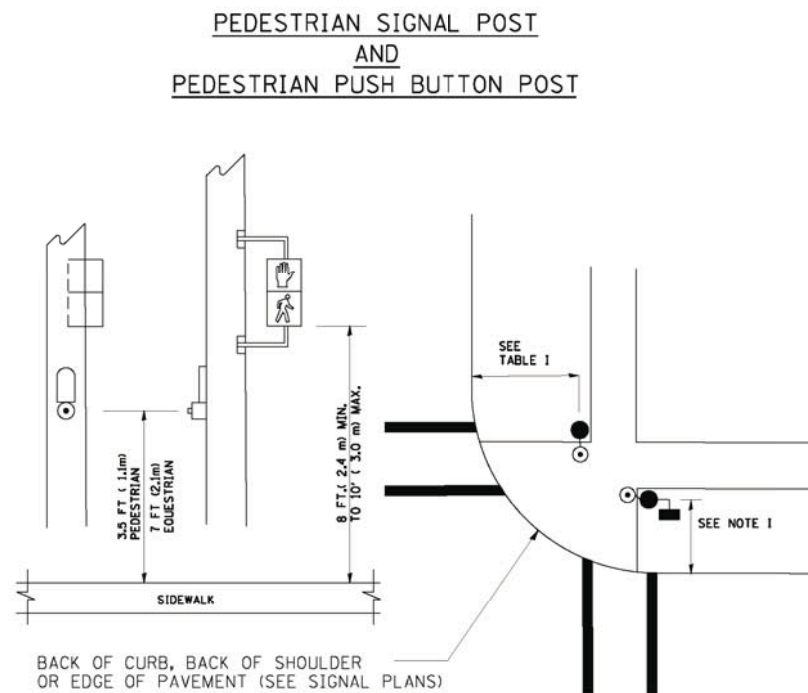
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	50
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	





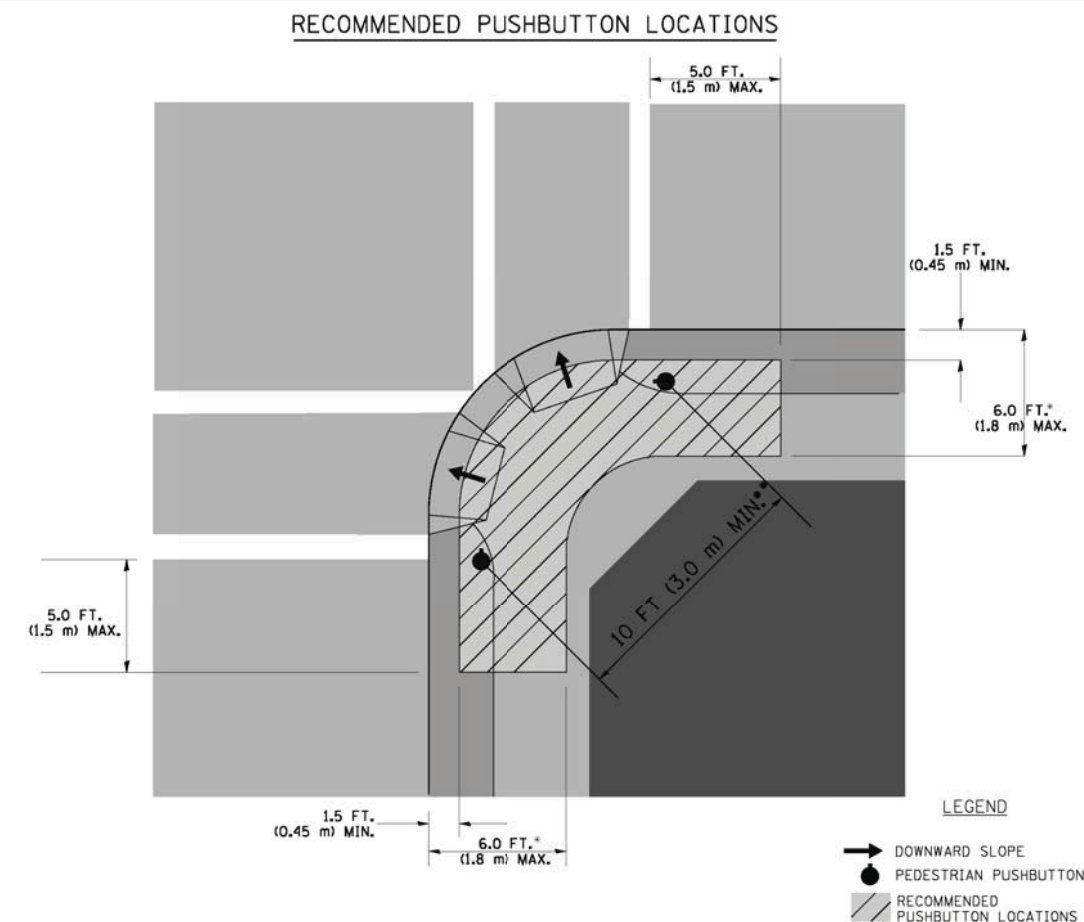
**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 DATE PLOTTED: 6/26/2012 12:50:29 PM  
 FILE NAME: 8610019614-std0102.dgn  
 PLOT DRIVER: pdfplot  
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 DESIGNED - DAD  
 DRAWN - BCK  
 CHECKED - DAD  
 DATE - 10-28-09

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

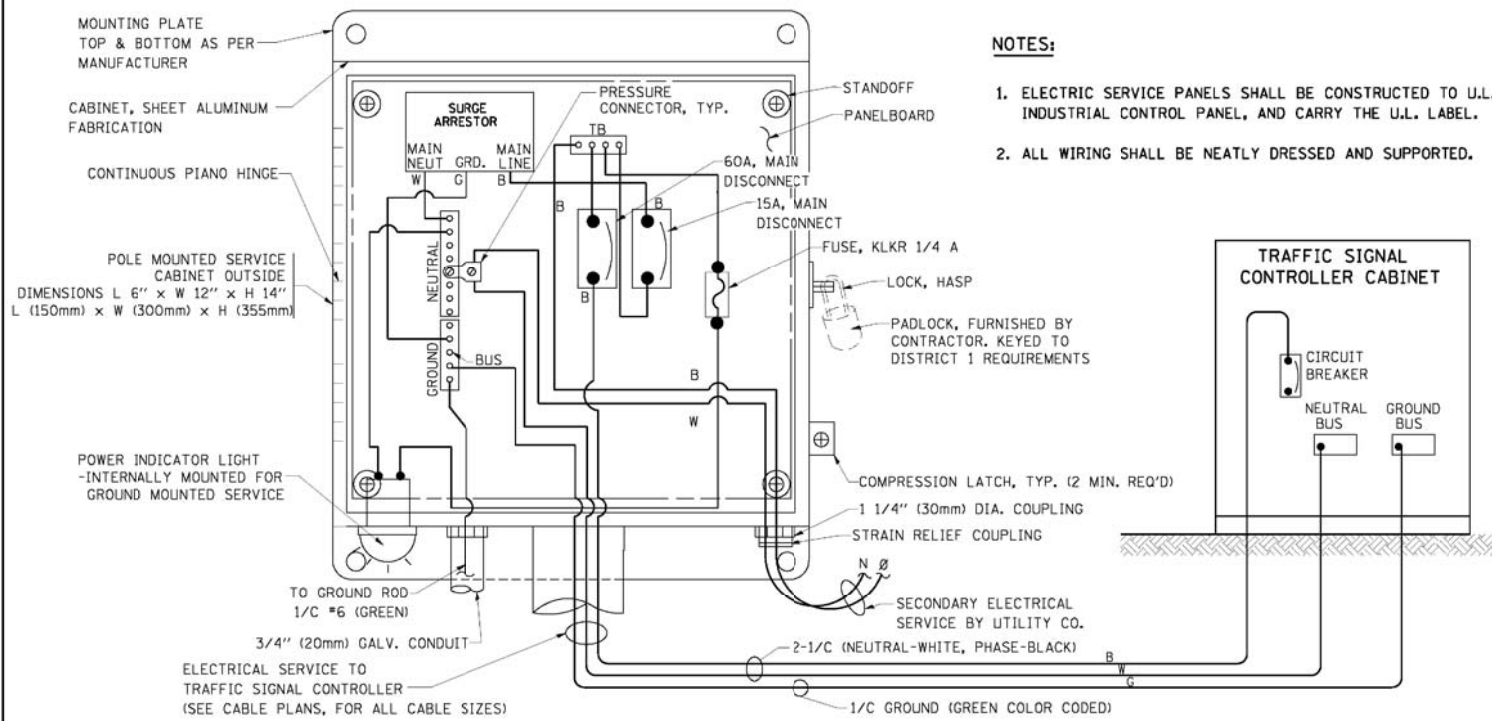
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	51
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.

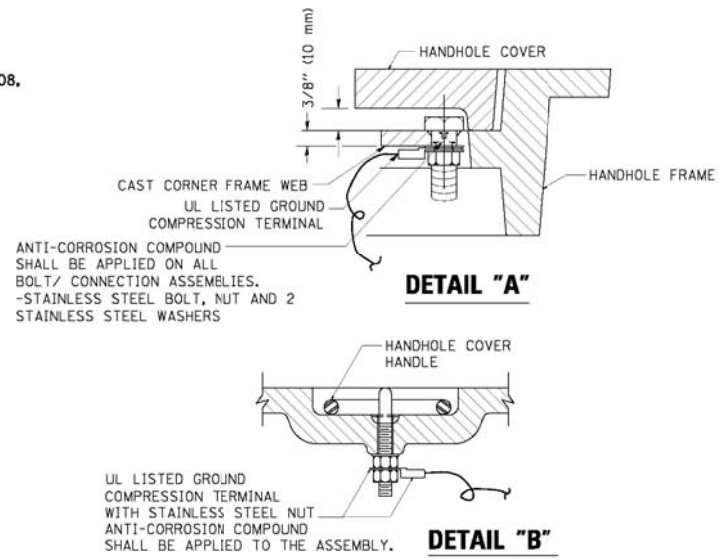
CONTRACT NO. 60P65





**NOTES:**

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



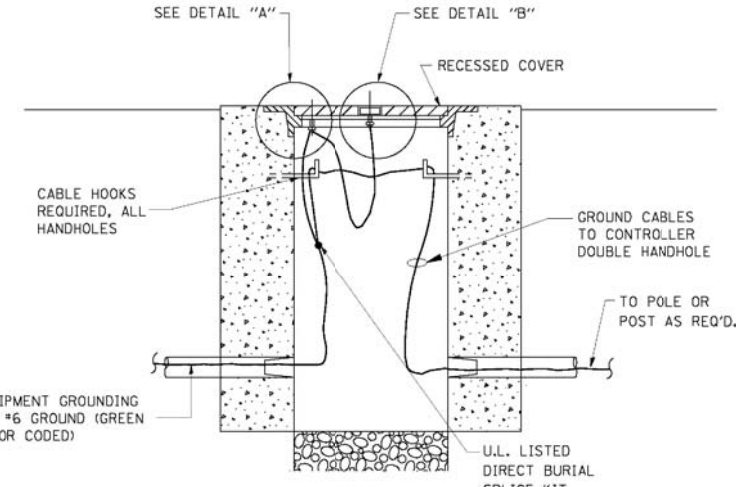
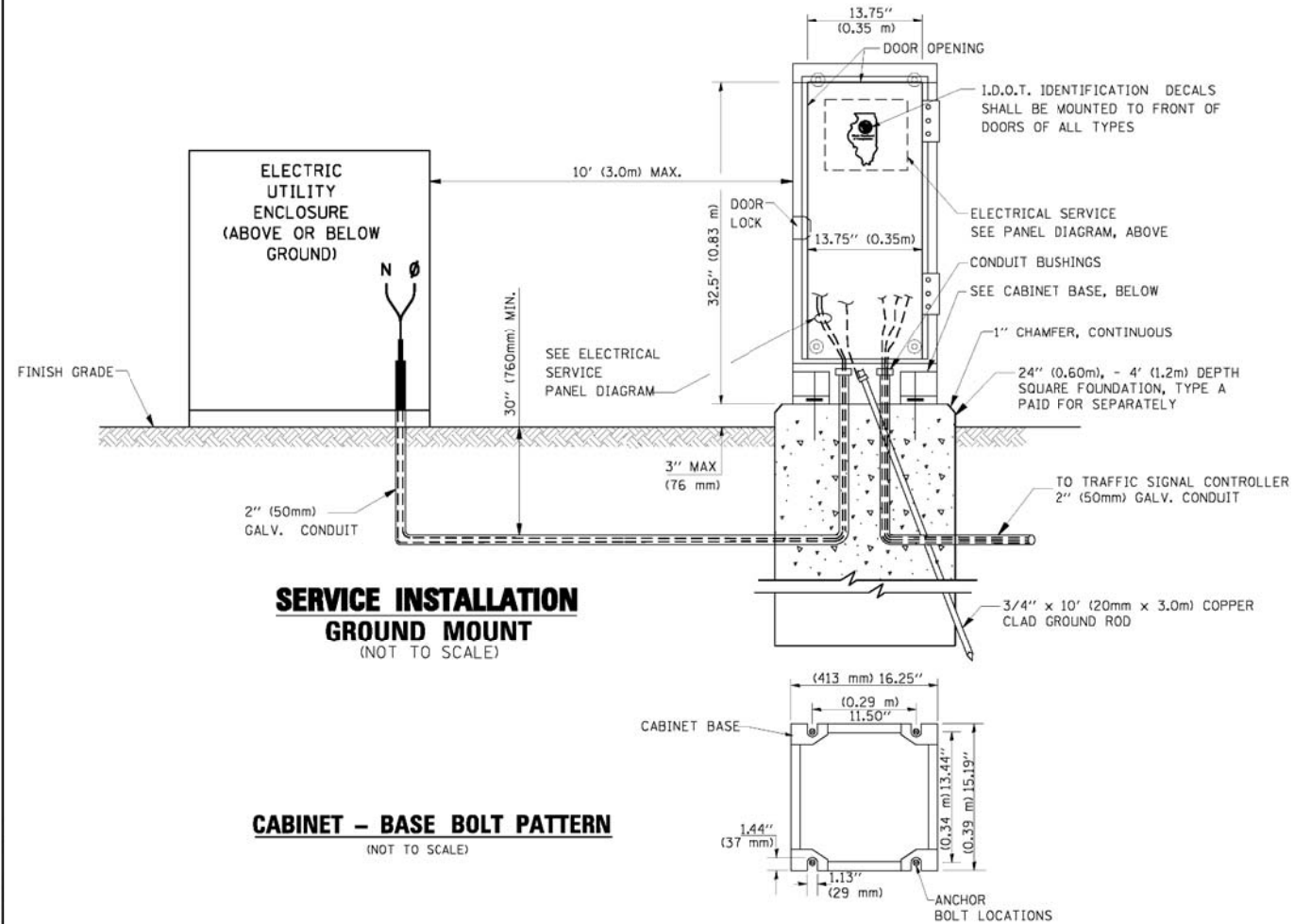
**NOTES:**

**GROUNDING SYSTEM**

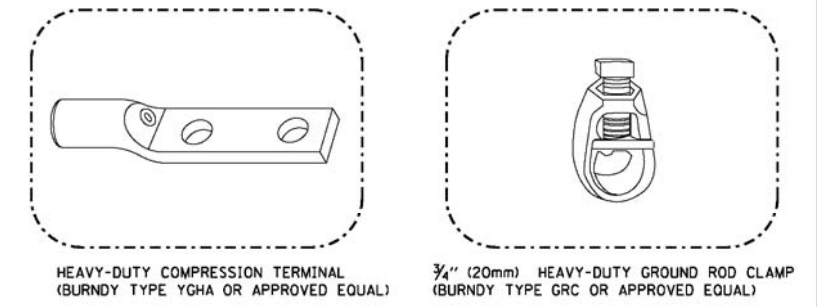
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**

**SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**

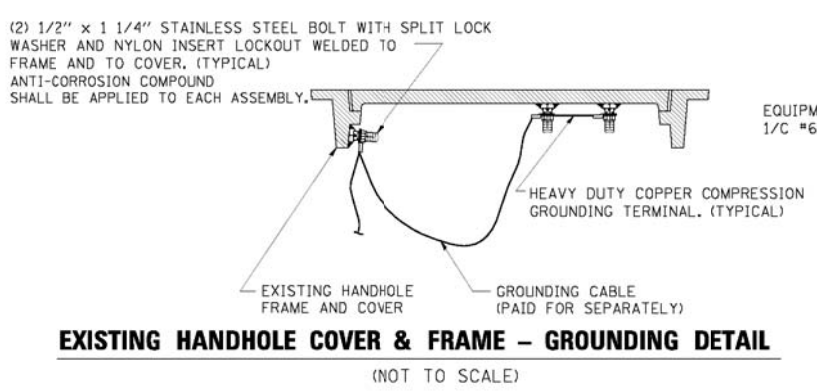


**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

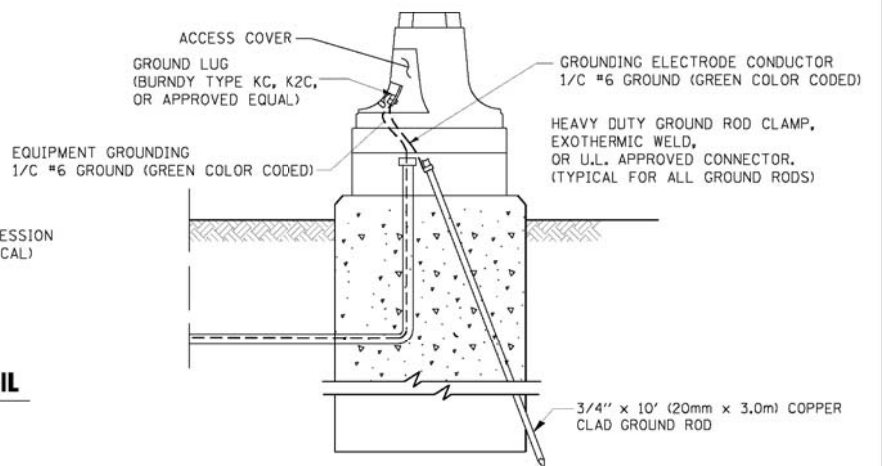


**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
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 FILE NAME: 861001961.rvt  
 PLOT DRIVER: pnf.plt  
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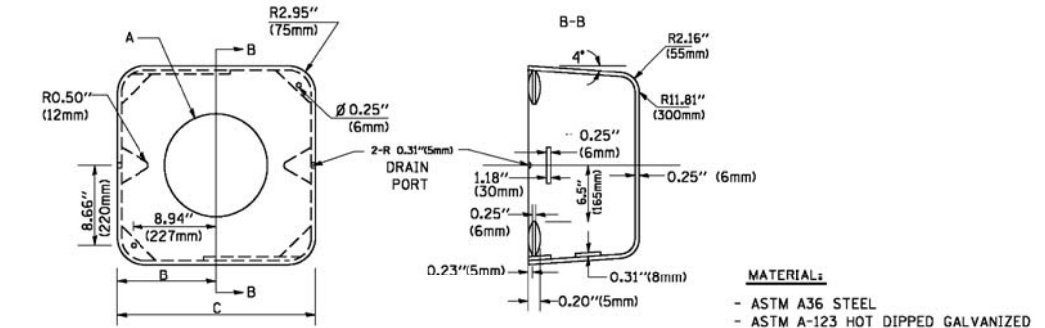
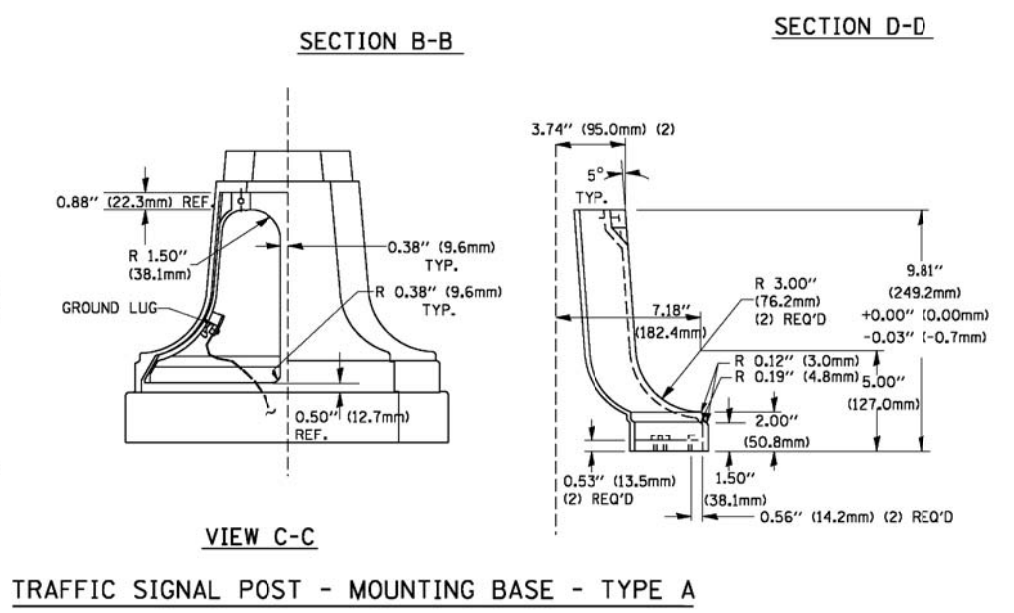
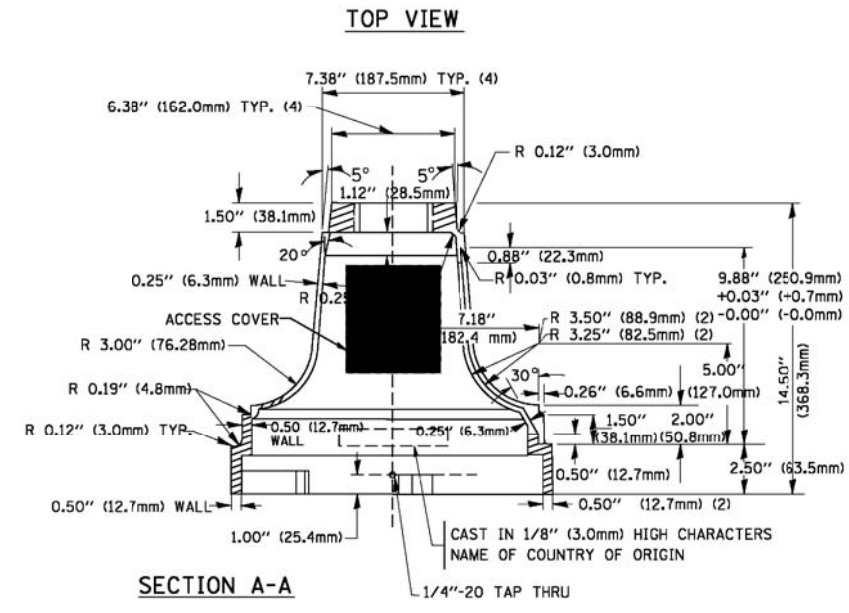
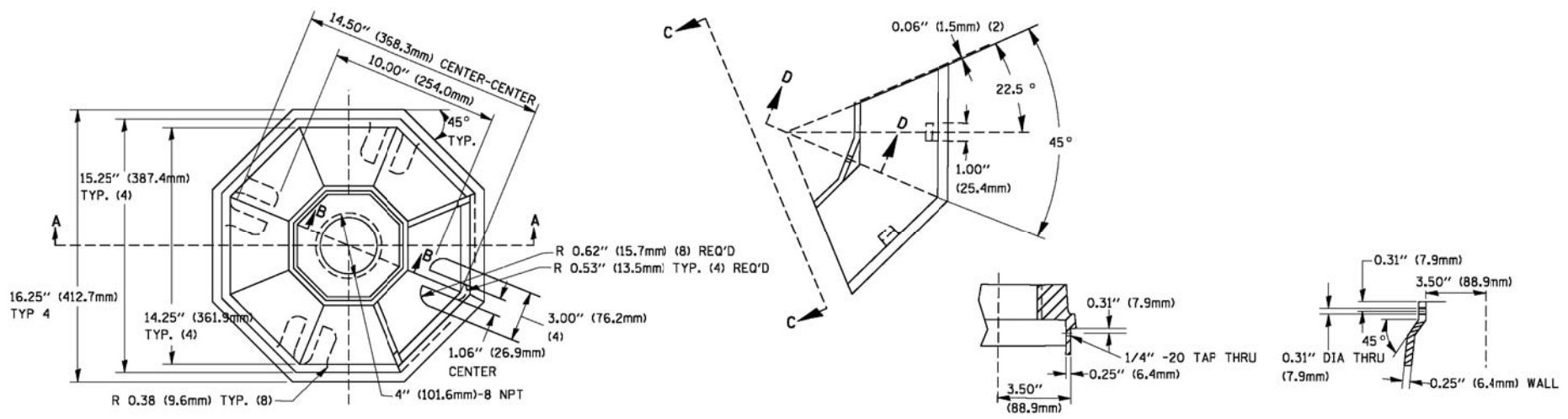
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DRAWN: BCK	CHECKED: DAD	REVISIONS:
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE:	SHEET NO. 3 OF 7 SHEETS

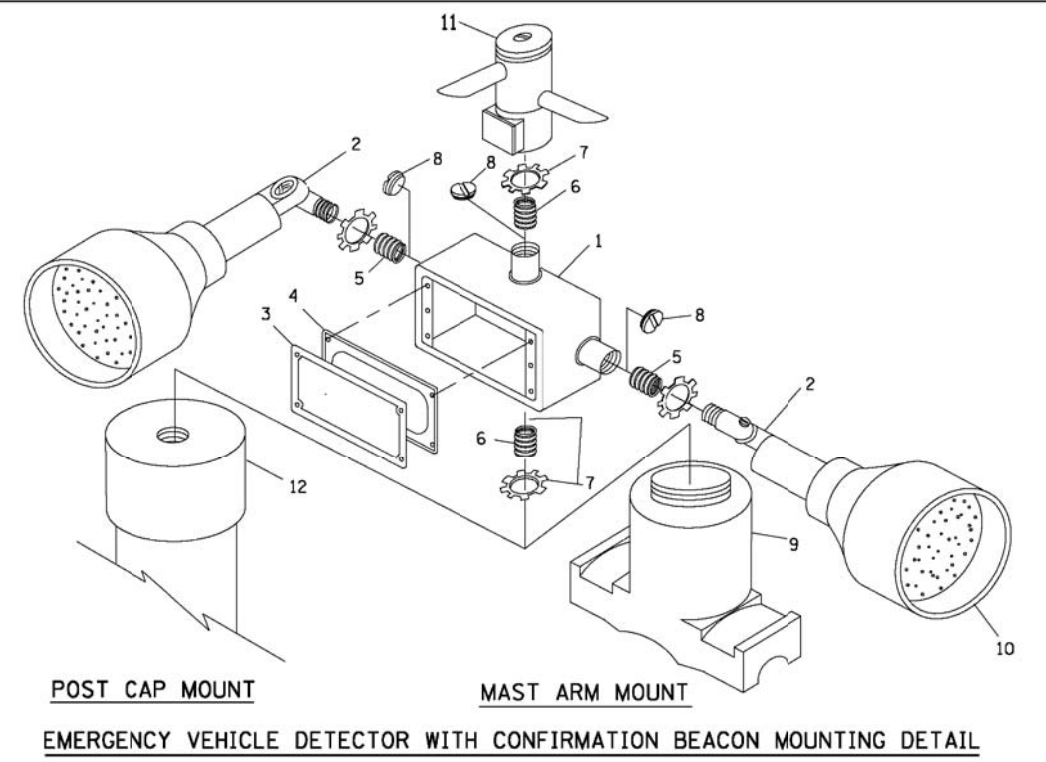
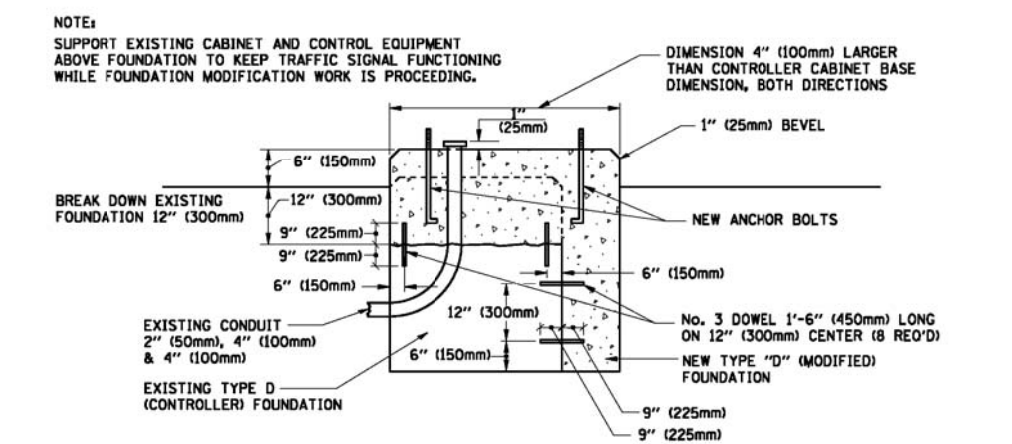
F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 52
CONTRACT NO. 60P65				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



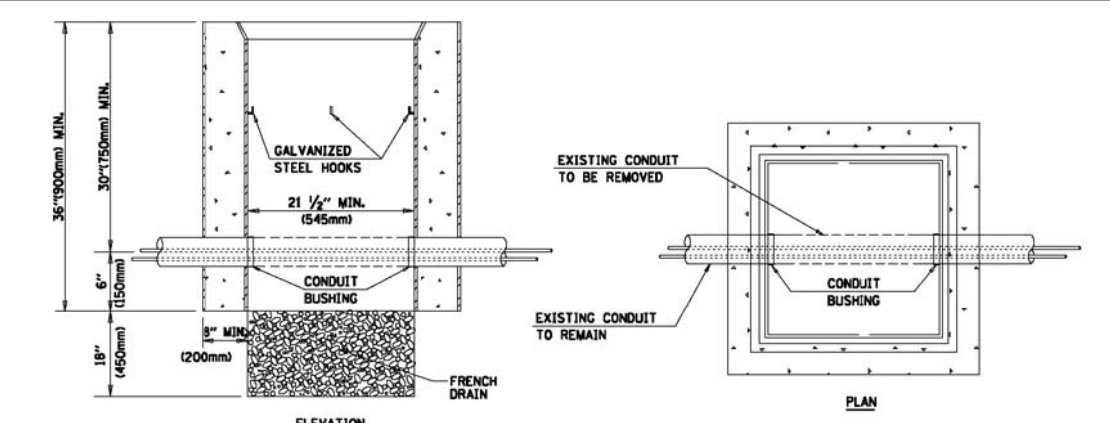
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/26/2012 12:53:18 PM  
 FILE NAME: 8610019614-std0104.dgn  
 PLOT DRIVER: pdf.plt  
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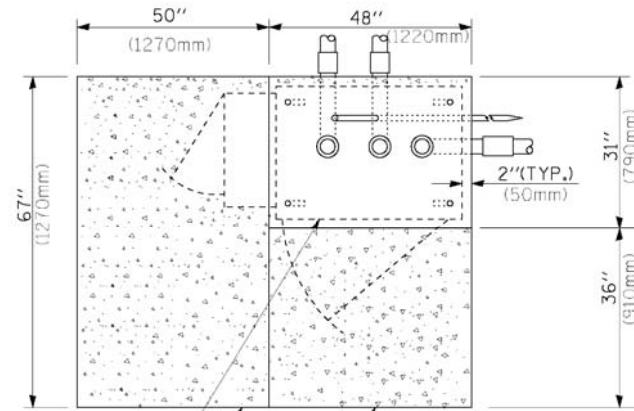
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DRAWN - BCK	CHECKED - DAD	REVISED -
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PLOT DATE = 11/14/2009		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

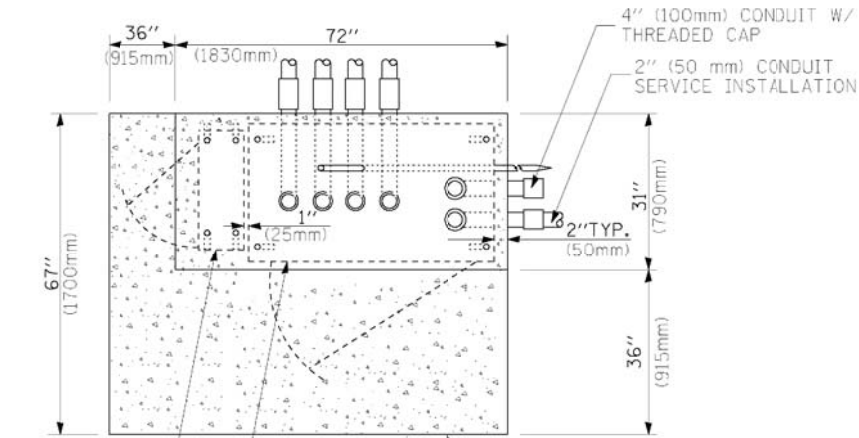
<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE:	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	53
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	

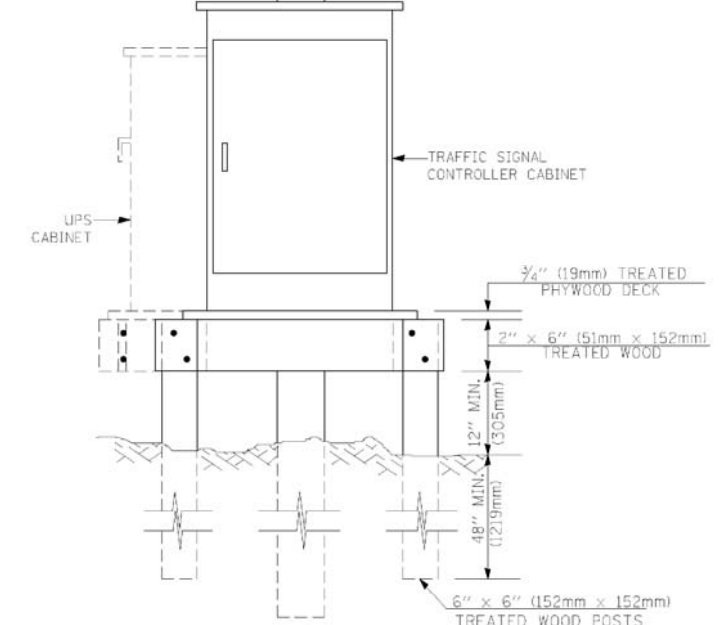
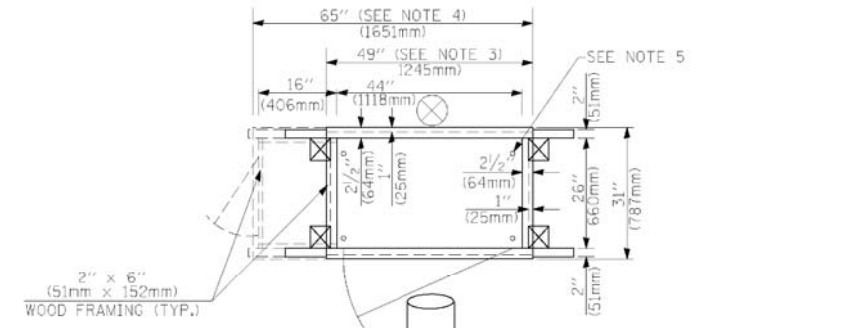




CONTROLLER CABINET BASE  
EXISTING APRON  
PROPOSED APRON  
**TOP VIEW**

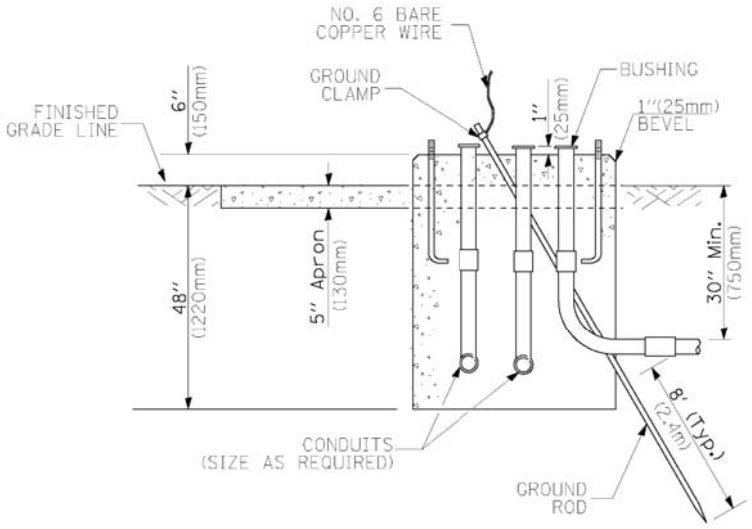


UPS CABINET BASE  
CONTROLLER CABINET BASE  
**TOP VIEW**  
APRON

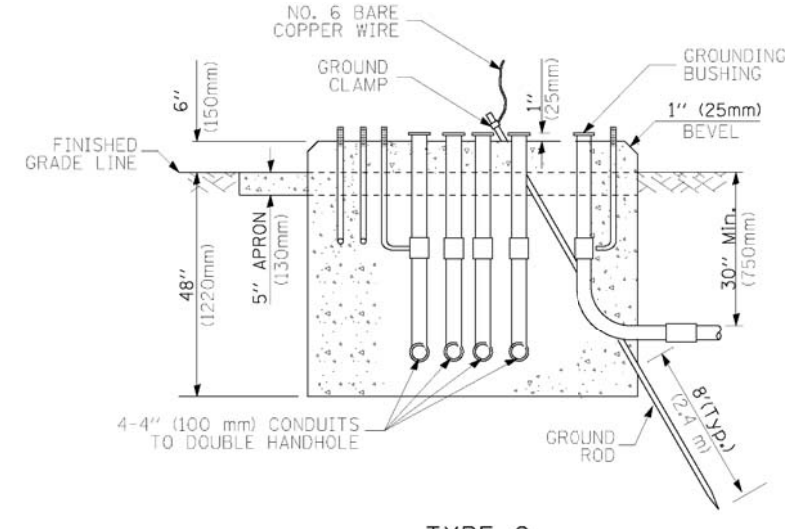


- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
  4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
  5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
  6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM**



**TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET**



**TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
  2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
  3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
  4. For mast arm assemblies with dual arms refer to state standard 878001.

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

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PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/26/2012 12:54:26 PM  
FILE NAME: 8610019614-std01105.dgn  
PLOT DRIVER: pdf.plt  
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PLOT DATE = 6/26/2012	CHECKED - DAD	REVISED -
	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 54
SCALE:		CONTRACT NO. 60P65		
SHEET NO. 5 OF 7 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED				
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE							
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE							
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA							
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED							
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F							
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F							
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F							
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F							
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)							
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE							
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED							
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED							
SIGNAL POST				REMOVE ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED							
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED							
GUY WIRE				ABANDON ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED							
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<b>RAILROAD SYMBOLS</b>							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK							
MICROWAVE VEHICLE SENSOR															
VIDEO DETECTION CAMERA															
VIDEO DETECTION ZONE															
PAN, TILT, ZOOM CAMERA															
WIRELESS DETECTOR SENSOR															
WIRELESS ACCESS POINT															

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 PROJECT CONTACT: HRGreen  
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HRGreen.com  
 Illinois Professional Design Firm  
 #191-011322

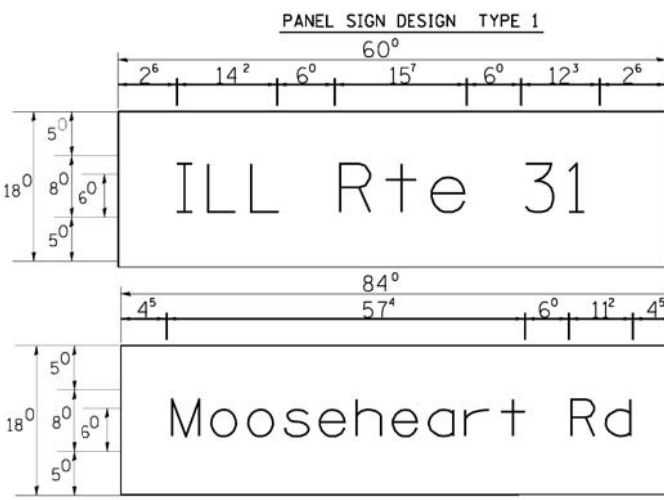
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 55
SCALE:		SHEET NO. 6 OF 7 SHEETS		STA. TO STA.
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60P65

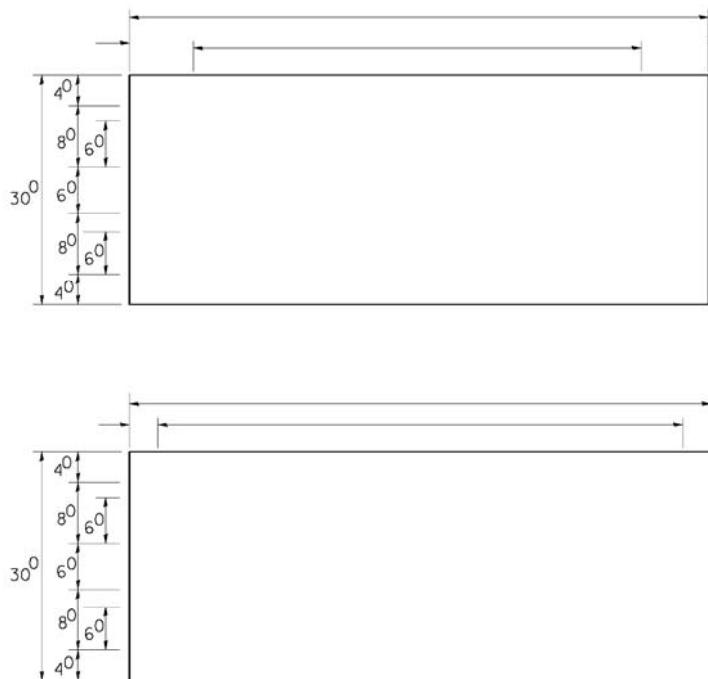


\_\_\_ Sq. M. each  
7.50 Sq. Ft. each  
2 Required  
Design Series D

\_\_\_ Sq. M. each  
10.5 Sq. Ft. each  
2 Required  
Design Series C

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

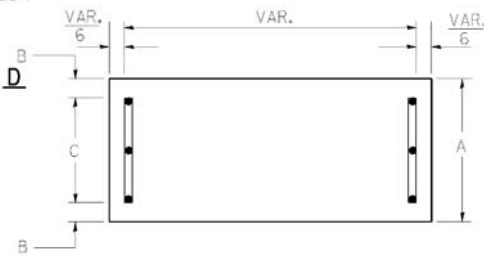
PANEL SIGN DESIGN TYPE 2



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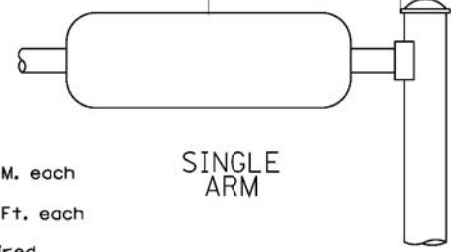
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SUPPORTING CHANNELS



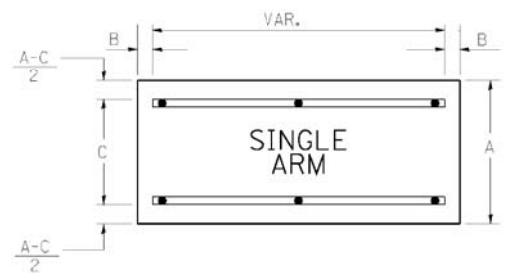
A	B	C
18"	2"	14"

Mid-Point of Sign VAR. TO 8 FT.(MAX.)

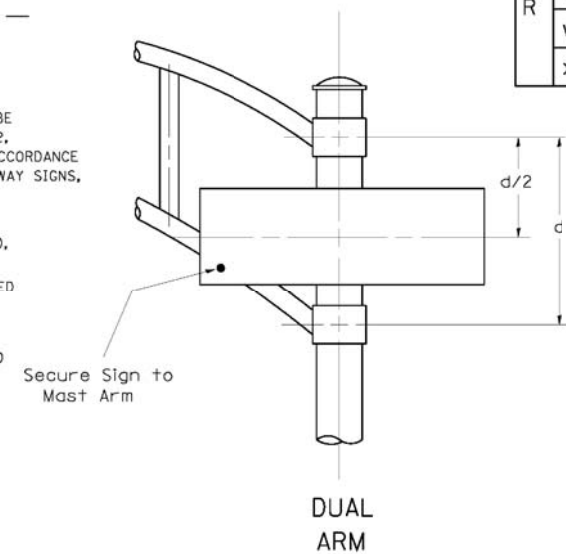


SINGLE ARM

SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

Upper Case To Lower Case  
Spacing Chart 8-6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	g o q	m n p r u														
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D O Q R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case  
Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	g o q	m n p r u														
adhgi	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
lmnqu																
bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
ce	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
vy	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number  
Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	14	14	15	14	15	11	12	14	15	14	15	14	15
7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

EXAMPLE, 2<sup>3</sup> DENOTES  $\frac{3}{8}$

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES		SERIES			C	D
	C	D	C	D	C	D	C	D			
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>				
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>				
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>				
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>				
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>				
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>				
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>				
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>				
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>				
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>				
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>				
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>				
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>				
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>				
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>				
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>				
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>				
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>	3 <sup>2</sup>				
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>	4 <sup>2</sup>				
T	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	t	2 <sup>7</sup>	3 <sup>2</sup>				
U	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	u	3 <sup>5</sup>	4 <sup>2</sup>				
V	3 <sup>5</sup>	4 <sup>4</sup>	4 <sup>7</sup>	6 <sup>0</sup>	v	4 <sup>2</sup>	4 <sup>7</sup>				
W	4 <sup>4</sup>	5 <sup>2</sup>	6 <sup>0</sup>	7 <sup>0</sup>	w	5 <sup>5</sup>	6 <sup>4</sup>				
X	3 <sup>4</sup>	4 <sup>0</sup>	4 <sup>5</sup>	5 <sup>3</sup>	x	4 <sup>4</sup>	5 <sup>1</sup>				
Y	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>6</sup>	y	4 <sup>6</sup>	5 <sup>3</sup>				
Z	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	z	3 <sup>6</sup>	4 <sup>3</sup>				

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>
2	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
3	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
4	3 <sup>5</sup>	4 <sup>3</sup>	4 <sup>7</sup>	5 <sup>7</sup>
5	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
6	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
7	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
8	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
9	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
0	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
  - ALL BORDERS SHALL BE  $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4" .
  - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:  
\* J.O. HERBERT CO. MIDLOTHIAN, VA. \* WESTERN REMAC INC. WOODRIDGE, IL.
- PARTS LISTING:  
SIGN CHANNEL PART \*HPN053 (MED. CHANNEL)  
SIGN SCREWS  $\frac{1}{4}$ " x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER  
BRACKETS PART \*HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING  
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

6/26/2012 12:55:19 PM  
PROJECT CONTACT  
DATE PLOTTED  
FILE NAME: 86100196.rte-sign0101.dgn  
PLOT DRIVER: pnf.plt  
PEN TABLE: standard-trans.tbl



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DESIGNED	- DAG./BCK.
DRAWN	- BCK.
CHECKED	- DAG/DAD
DATE	- 03/15/09
REVISD	- DAG-10/28/09
REVISD	-
REVISD	-
REVISD	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 1  
MAST ARM MOUNTED STREET NAME SIGNS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	56
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.

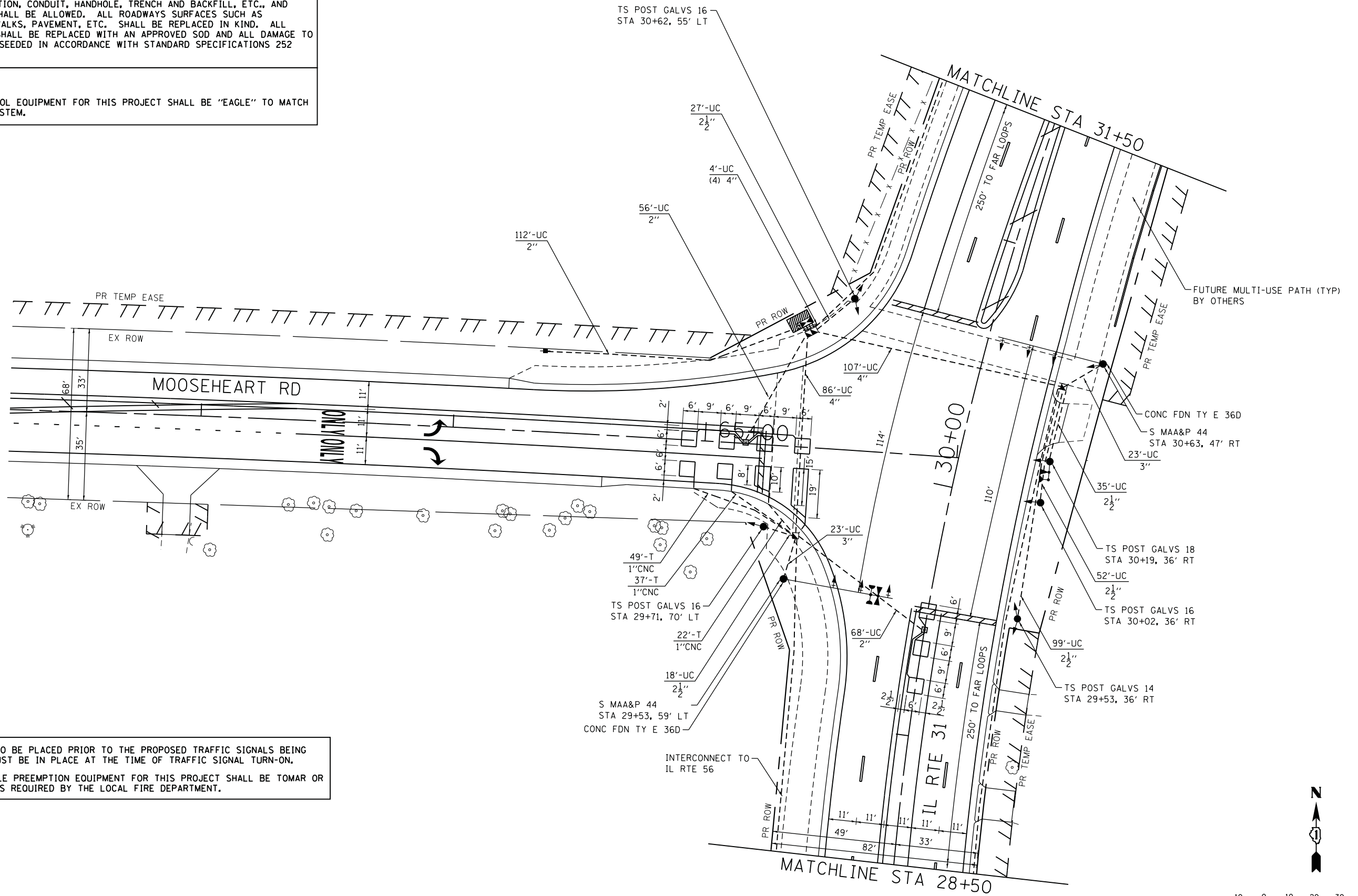


**RESTORATION OF WORK AREA**

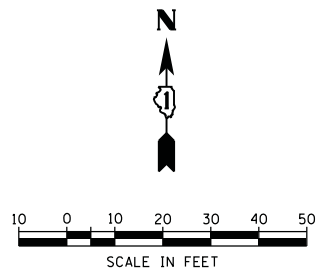
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**NOTE**

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



1. STOP BARS ARE NOT TO BE PLACED PRIOR TO THE PROPOSED TRAFFIC SIGNALS BEING OPERATIONAL. THEY MUST BE IN PLACE AT THE TIME OF TRAFFIC SIGNAL TURN-ON.
2. THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE TOMAR OR AN APPROVED EQUAL AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 7/25/2012 10:51:26 AM  
 FILE NAME: 86100196.14-sig01a.dgn  
 PLOT DRIVER: pafplot  
 PEN TABLE: standard-trans.tbl



USER NAME = charke	DESIGNED - JJS	REVISED - C. HARTKE 8/3/2012
	DRAWN - JJS	REVISED -
PLOT SCALE = 1"=20'	CHECKED - DJ	REVISED -
PLOT DATE = 7/25/2012	DATE - 7/25/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

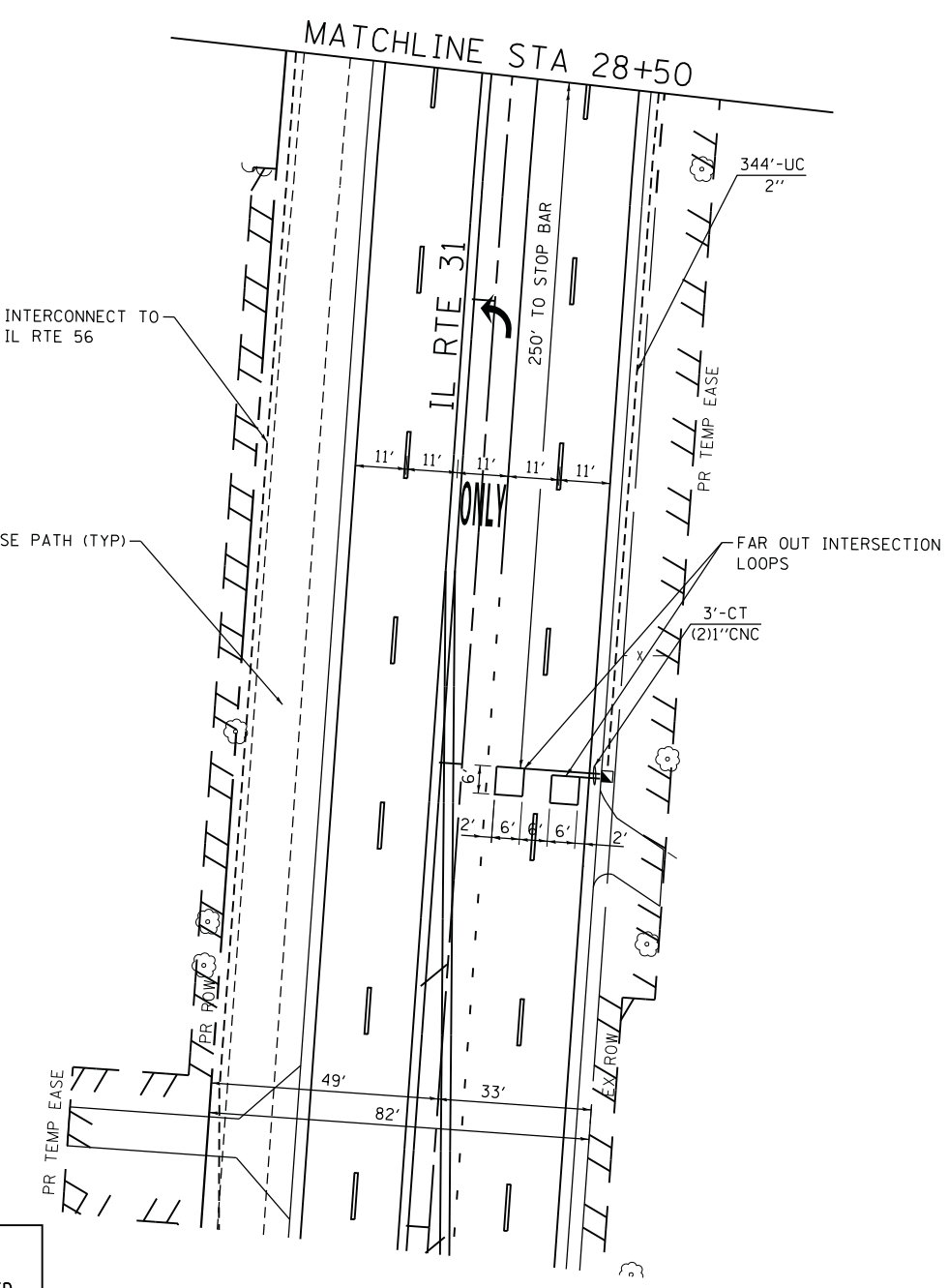
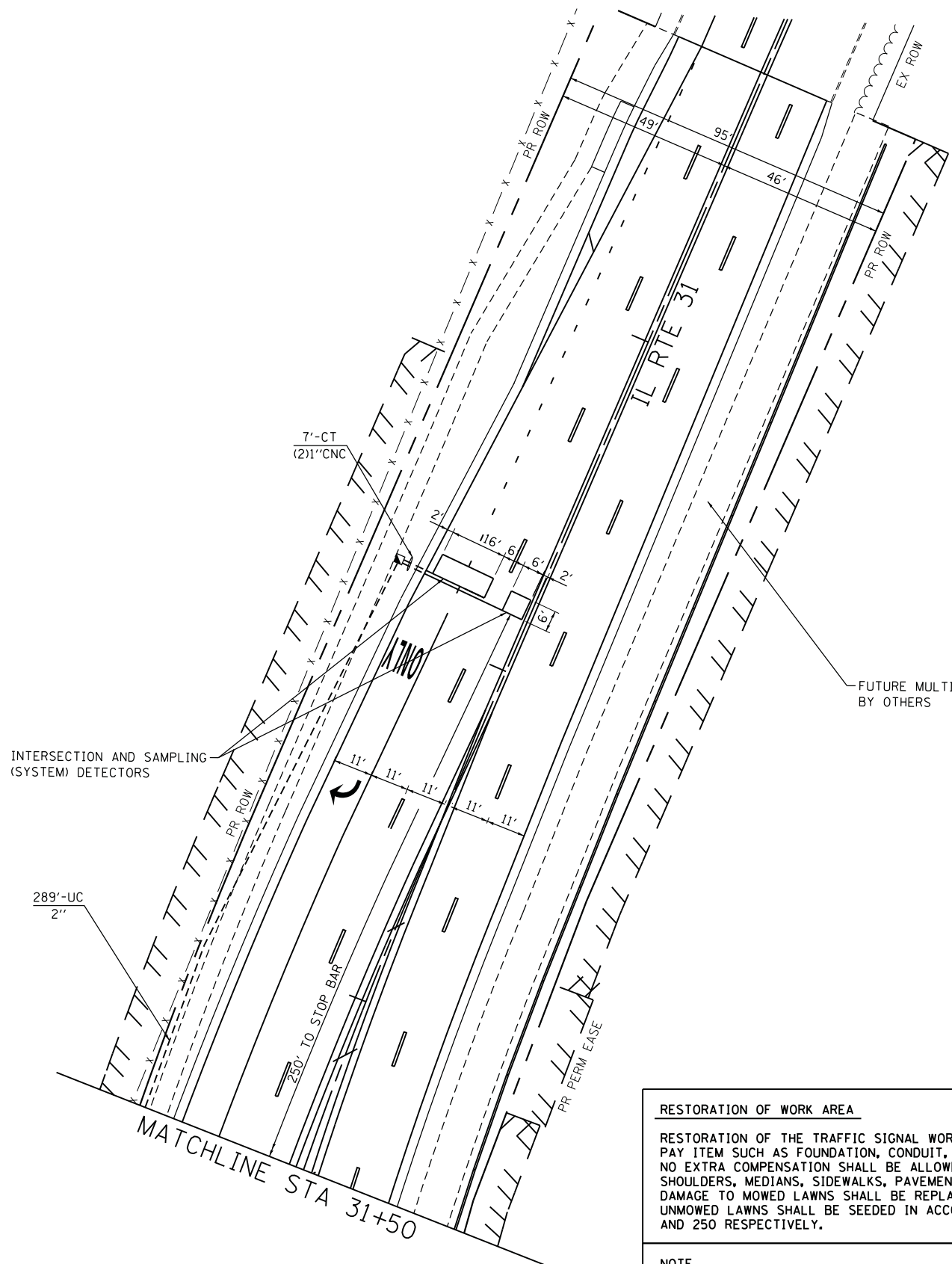
**TRAFFIC SIGNAL INSTALLATION PLAN  
 ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 57
CONTRACT NO. 60P65			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

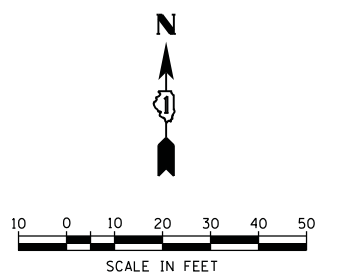
86100196.14-sig01a.dgn





**RESTORATION OF WORK AREA**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**NOTE**  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 DATE PLOTTED: 7/25/2012 10:51:31 AM  
 FILE NAME: 86100196.14-sig01b.dgn  
 PLOT DRIVER: pafcah  
 PEN TABLE: standard-trans.tbl



USER NAME = charke	DESIGNED - JJS	REVISED - C. HARTKE 8/3/2012
	DRAWN - JJS	REVISED -
PLOT SCALE = 1"=20'	CHECKED - DJ	REVISED -
PLOT DATE = 7/25/2012	DATE - 7/25/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
 ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 58
CONTRACT NO. 60P65				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

8-91-395-11  
 86100196.14-sig01b.dgn

**SCHEDULE OF QUANTITIES**

SIGN PANEL - TYPE 1	SQ FT	7.50
SIGN PANEL - TYPE 2	SQ FT	21.00
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	869.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	231.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	46.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	213.0
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	428.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,055.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	759.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,222.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	144.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	20.0
CONCRETE FOUNDATION, TYPE C	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	539.0
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	426.5
RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATE	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6, 1C	FOOT	1,129.5

**NOTE**  
100% OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT COST WILL BE PAID BY THE NORTH AURORA FIRE PROTECTION DISTRICT.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119.0
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW (YELLOW)	6		12	0.10	7.2
ARROW (GREEN)	6		12	0.10	7.2
PEDESTRIAN SIGNAL	0		25	1.00	0.0
CONTROLLER	1		100	1.00	100.0
UPS	1		25	1.00	25.0
TOTAL =					398.4

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W. CENTER COURT  
SCHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT: KATHY NYSTROM  
PHONE: (847) 608-2331  
COMPANY: COMMONWEALTH EDISON

**NOTE:**  
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

**NOTE:**  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**NOTE:**  
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE TOMAR OR AN APPROVED EQUAL.

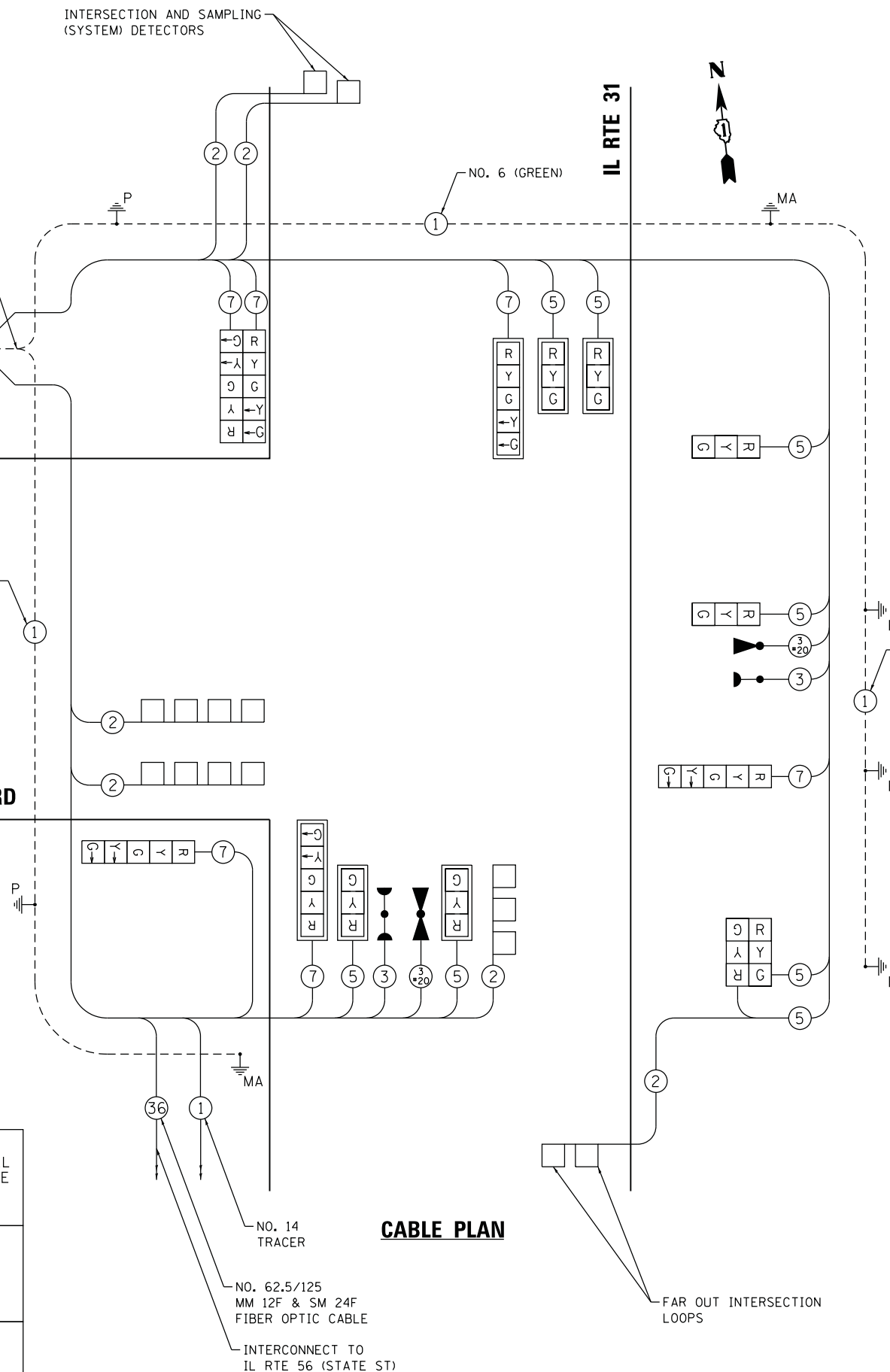
INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

NUMBER OF GROUND CABLES AS PER PLAN  
NO. 6  
1/C NO. 6 (GREEN)

**MOOSEHEART RD**

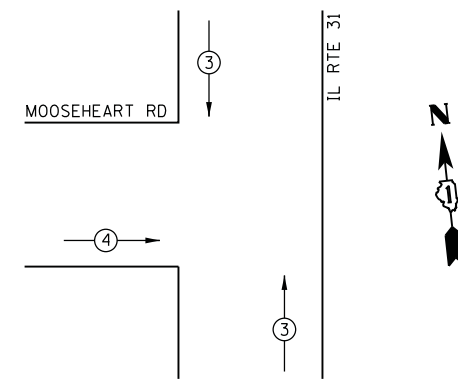
**IL RTE 31**

**CABLE PLAN**



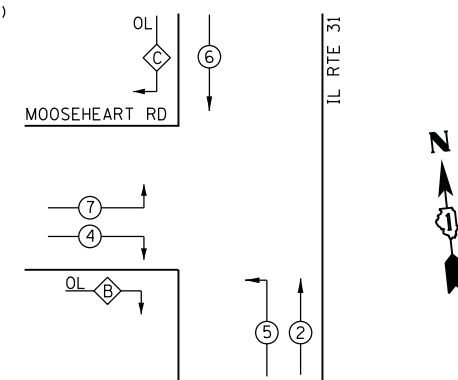
FAR OUT INTERSECTION LOOPS

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓	→

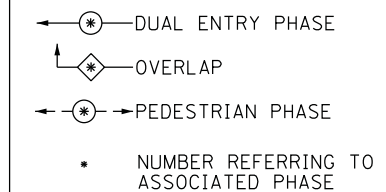
**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

OVERLAP PHASE	PERMISSIVE PHASE	PROTECTED PHASE
B =	4 +	5
C =	6 +	7

**CONTROLLER SEQUENCE LEGEND**



COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 7/25/2012 10:51:35 AM  
FILE NAME: 86100196\_14-sigcab.dgn  
PLOT DRIVER: pafcah  
PEN TABLE: standard-trans.tbl



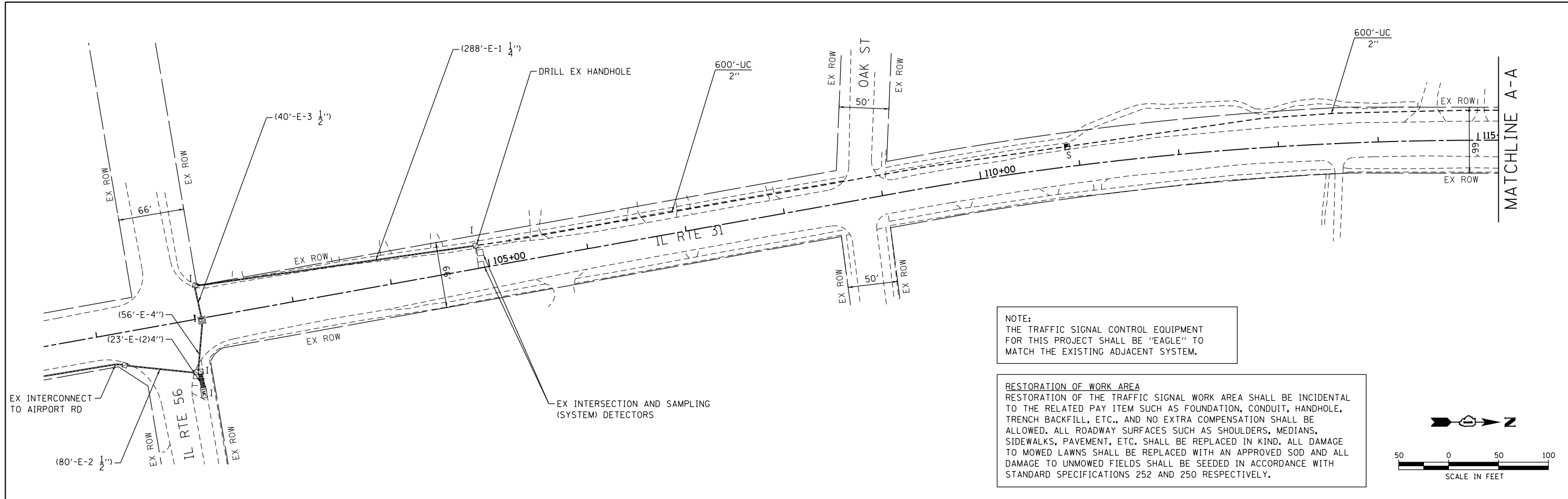
USER NAME = charke  
DESIGNED - JJS  
DRAWN - JJS  
PLOT SCALE = NTS  
PLOT DATE = 7/25/2012

REVISIONS:  
REVISED - C. HARTKE 8/3/2012  
REVISED -  
REVISED -  
REVISED -  
DATE - 7/25/2012

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

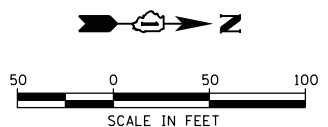
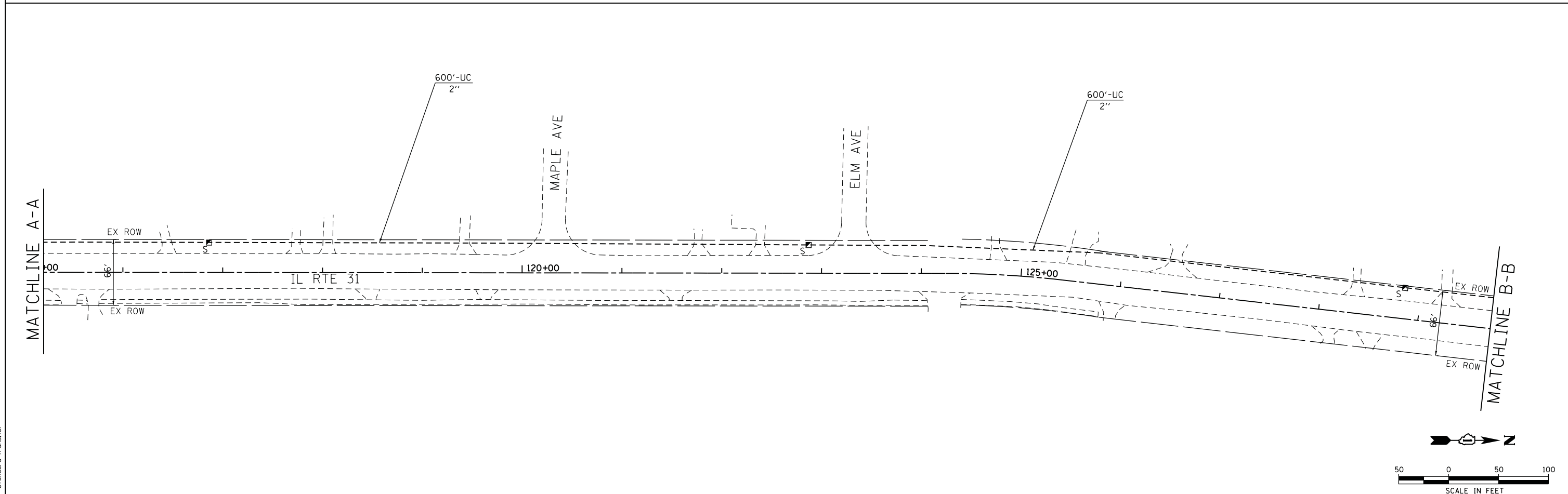
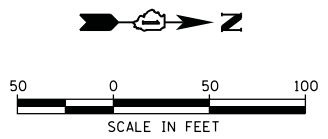
**CABLE PLAN AND PHASE DESIGNATION DIAGRAM ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**  
SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	59
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**RESTORATION OF WORK AREA**  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 7/25/2012 10:56:50 AM  
FILE NAME: 86100196.14-signt01.dgn  
PLOT DRIVER: pafplot  
PEN TABLE: standard-trans.tbl



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	DRAWN - JJS	REVISED -
PLOT SCALE = 1"=50'	CHECKED - DJ	REVISED -
PLOT DATE = 7/25/2012	DATE - 7/25/2012	REVISED -

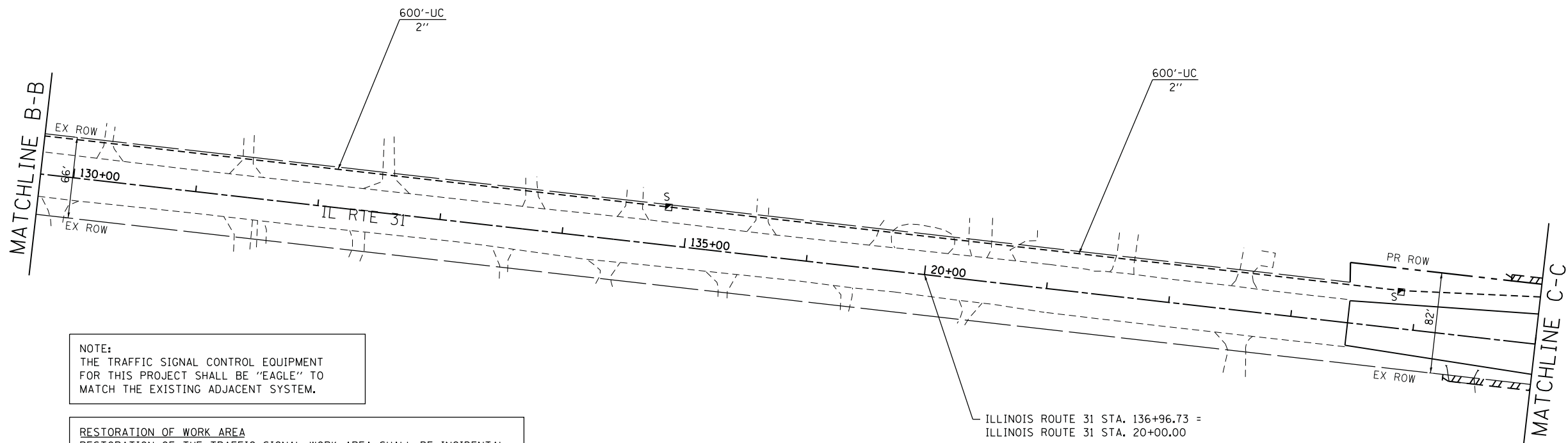
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	60
CONTRACT NO.			60P65	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

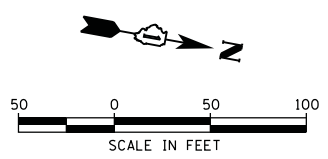
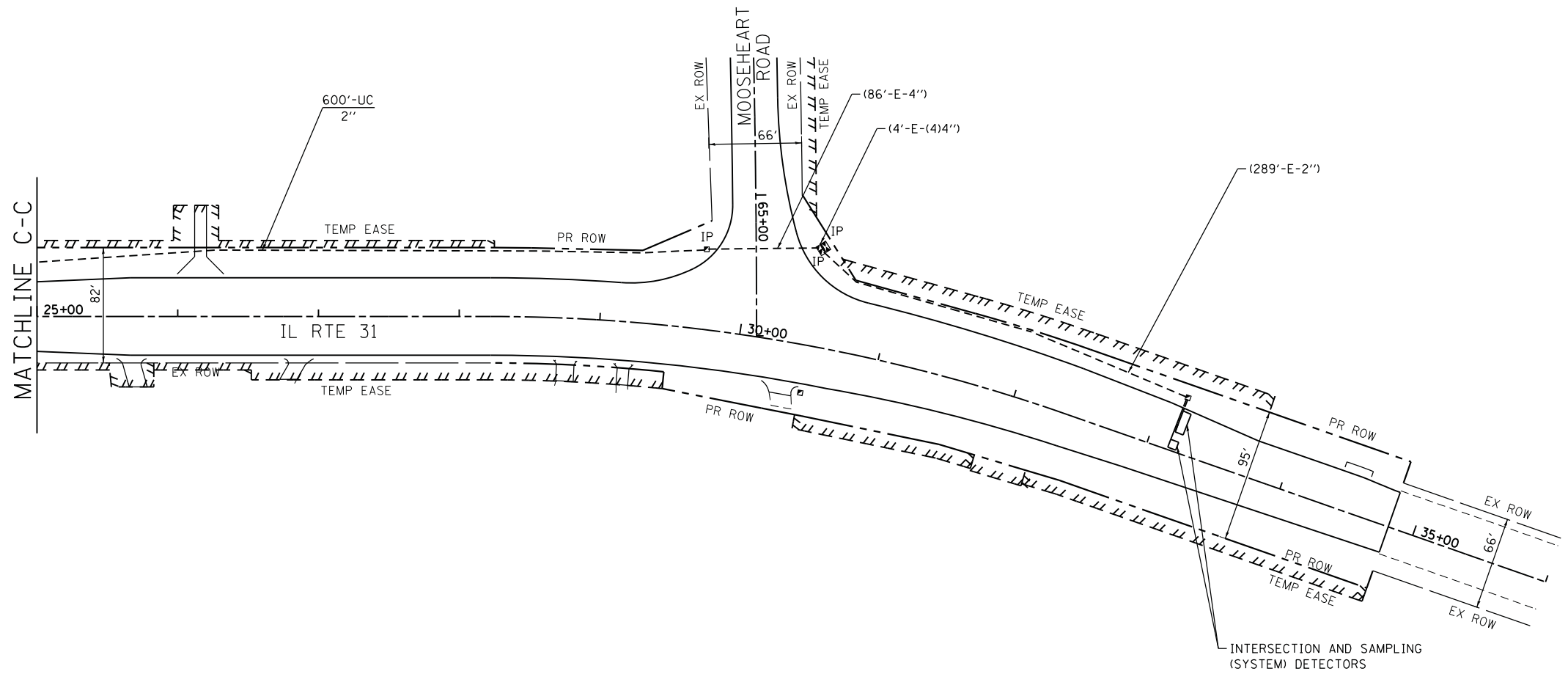
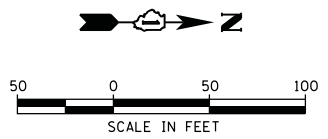
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86100196  
86100196.14-signt01.dgn



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**RESTORATION OF WORK AREA**  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

ILLINOIS ROUTE 31 STA. 136+96.73 =  
ILLINOIS ROUTE 31 STA. 20+00.00



COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 7/25/2012 10:56:55 AM  
FILE NAME: 86100196.14-signt02.dgn  
PLOT DRIVER: pdtplot  
PEN TABLE: standard-trans.tbl



USER NAME = charke	DESIGNED - JJS	REVISED - C. HARTKE 8/3/2012
	DRAWN - JJS	REVISED -
PLOT SCALE = 1"=50'	CHECKED - DJ	REVISED -
PLOT DATE = 7/25/2012	DATE - 7/25/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

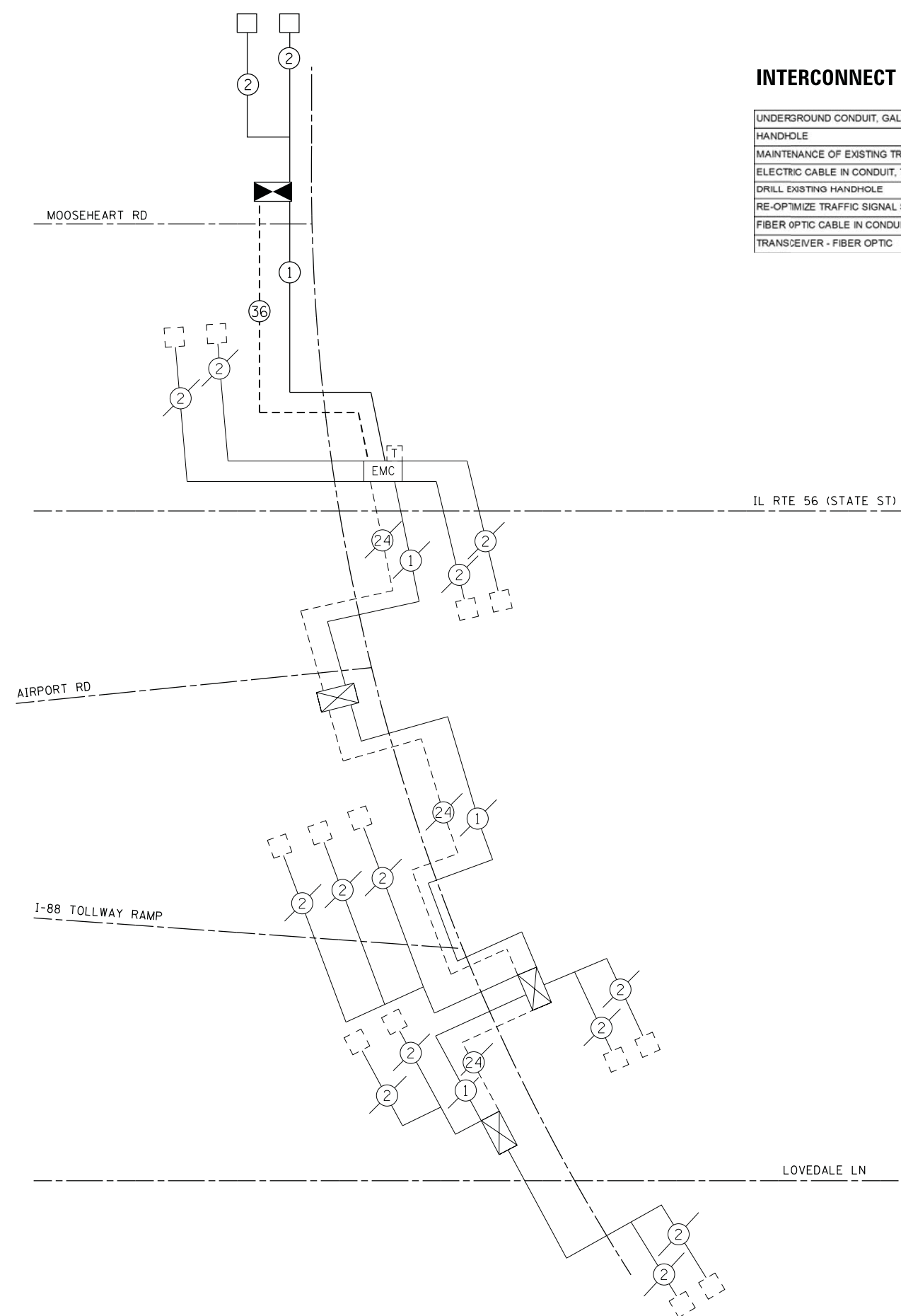
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	61
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	





**INTERCONNECT SCHEDULE OF QUANTITIES**

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	4,200.0
HANDHOLE	EACH	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4,822.5
DRILL EXISTING HANDHOLE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4,835.5
TRANSCEIVER - FIBER OPTIC	EACH	1



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE 'EAGLE' TO MATCH THE EXISTING ADJACENT SYSTEM.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 7/25/2012 10:56:59 AM  
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USER NAME = charke	DESIGNED - JJS	REVISED - C. HARTKE 8/3/2012
	DRAWN - JJS	REVISED -
PLOT SCALE = NTS	CHECKED - DJ	REVISED -
PLOT DATE = 7/25/2012	DATE - 7/25/2012	REVISED -

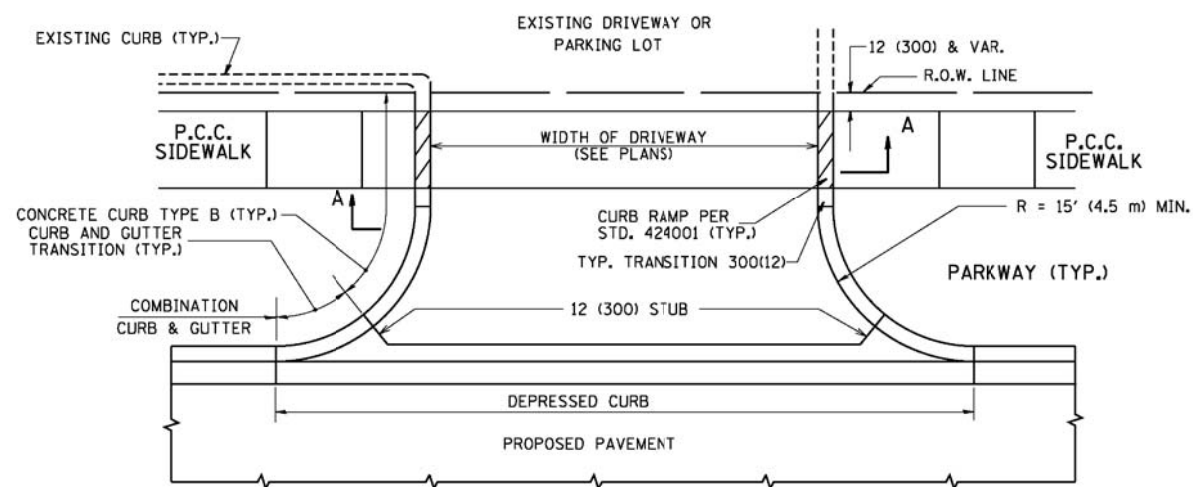
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC  
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD**

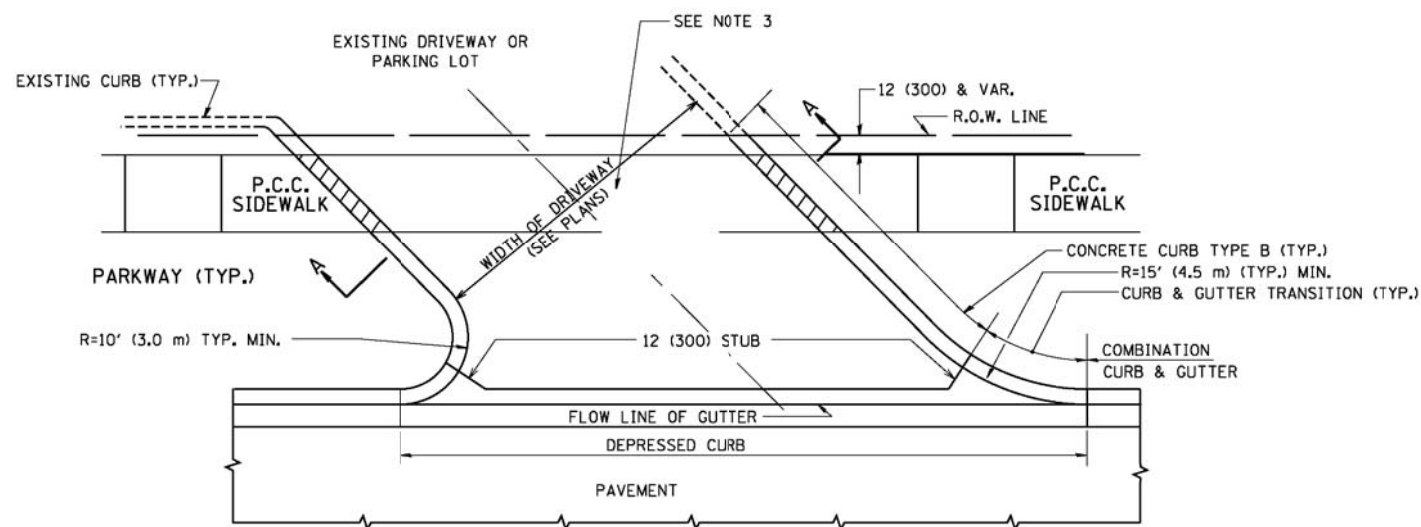
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	62
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 60P65

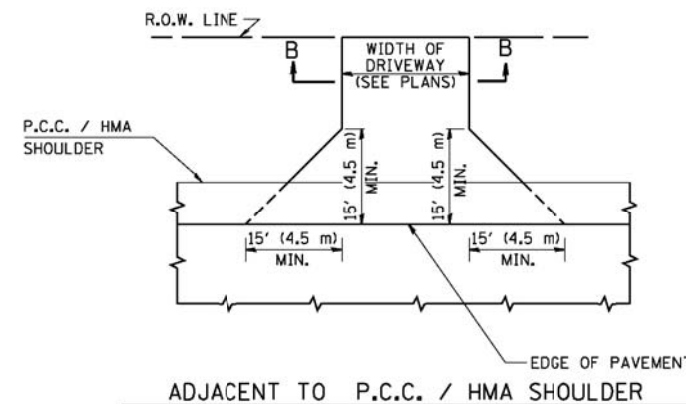
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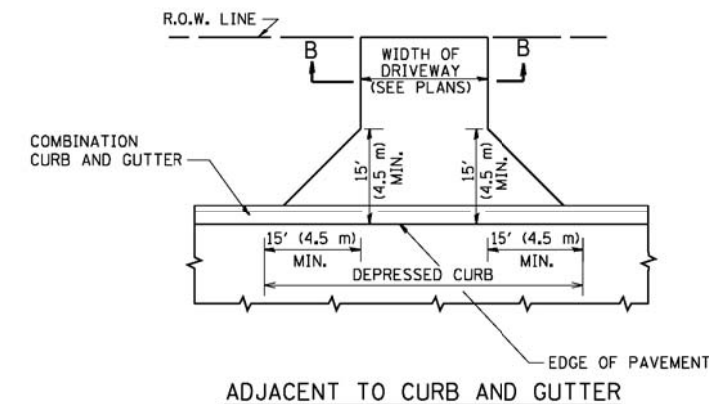
WITH CONCRETE CURB, TYPE B



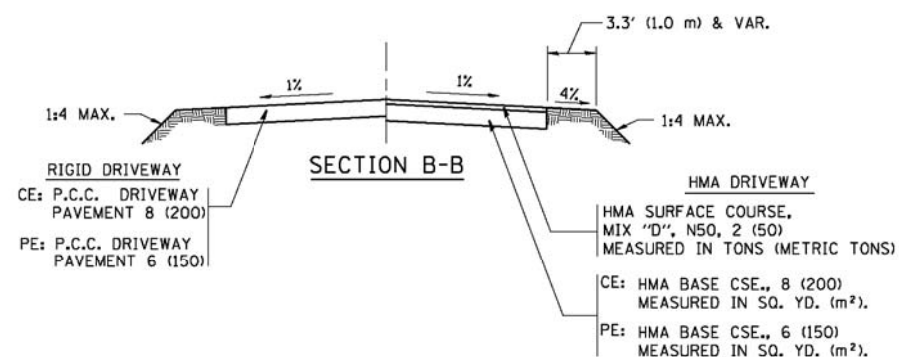
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



**RURAL FIELD ENTRANCE (FE)**  
 HMA SURFACE COURSE,  
 MIX 'D', N50, 2 (50)  
 MEASURED IN TONS (METRIC TONS)  
 AGGREGATE BASE CSE., TYPE B, 8 (200)  
 MEASURED IN SQ. YD. (m²).

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

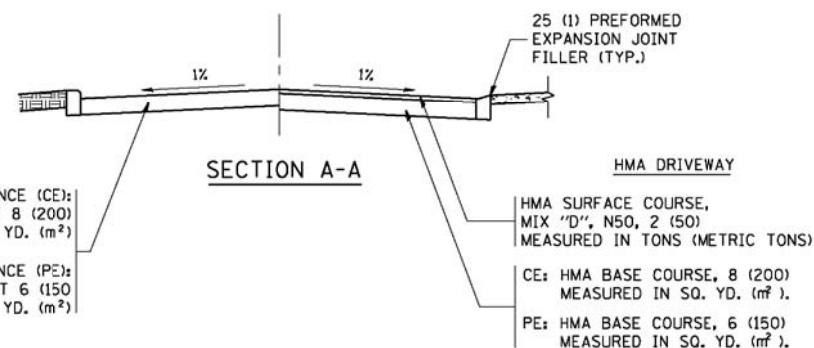
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen  
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 PLOT DRIVER: pdfplot  
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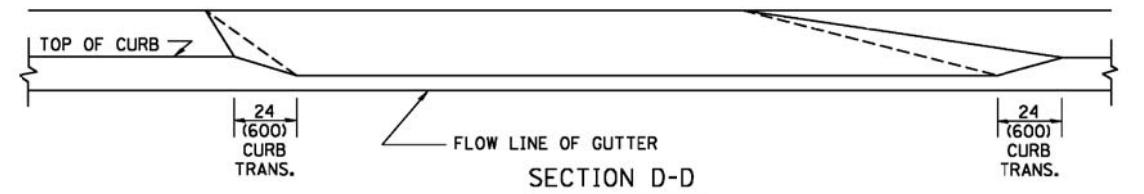
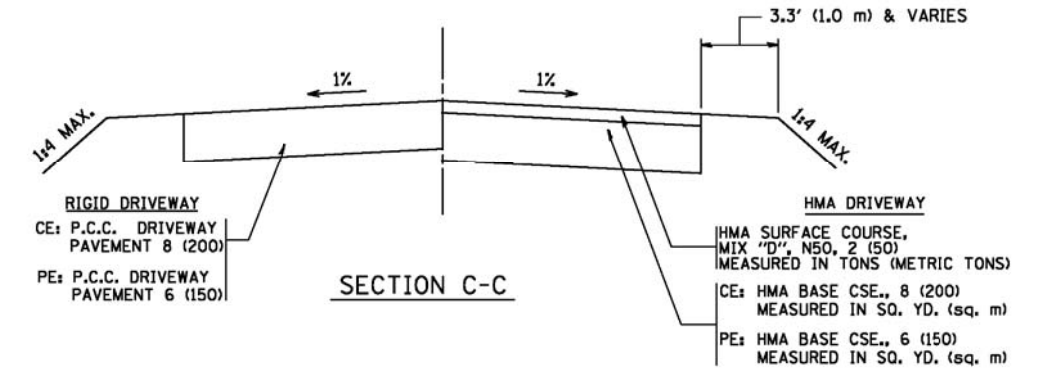
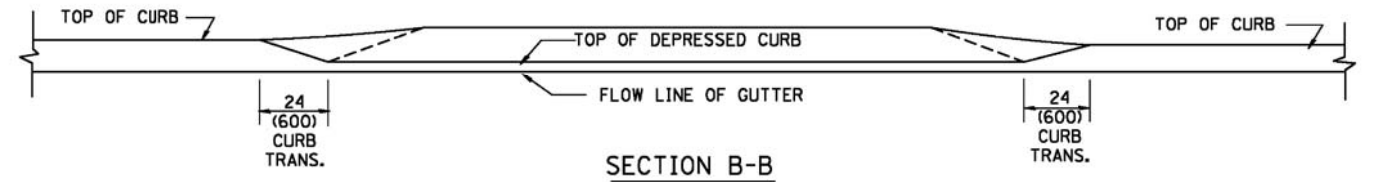
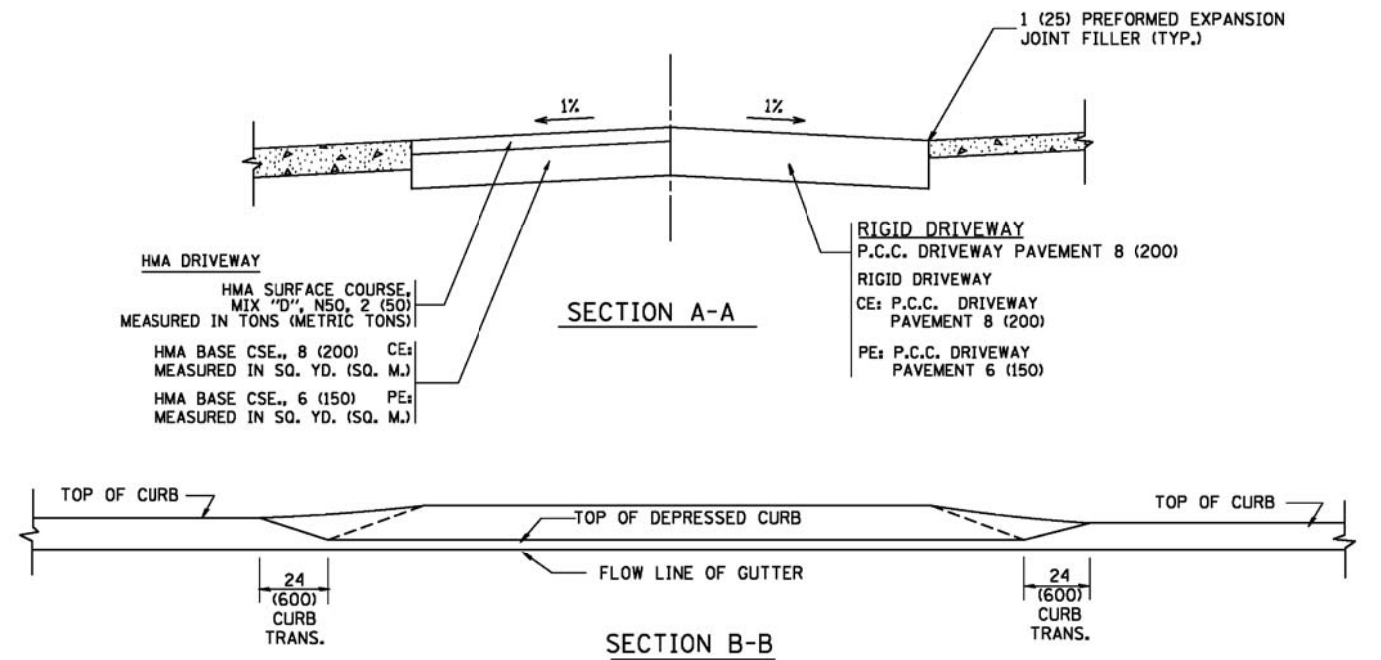
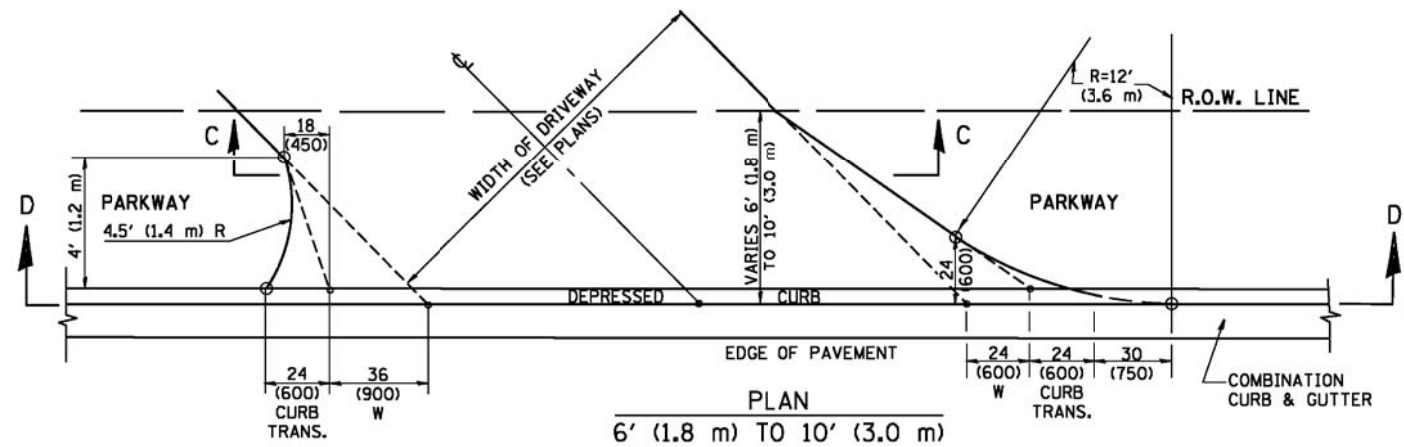
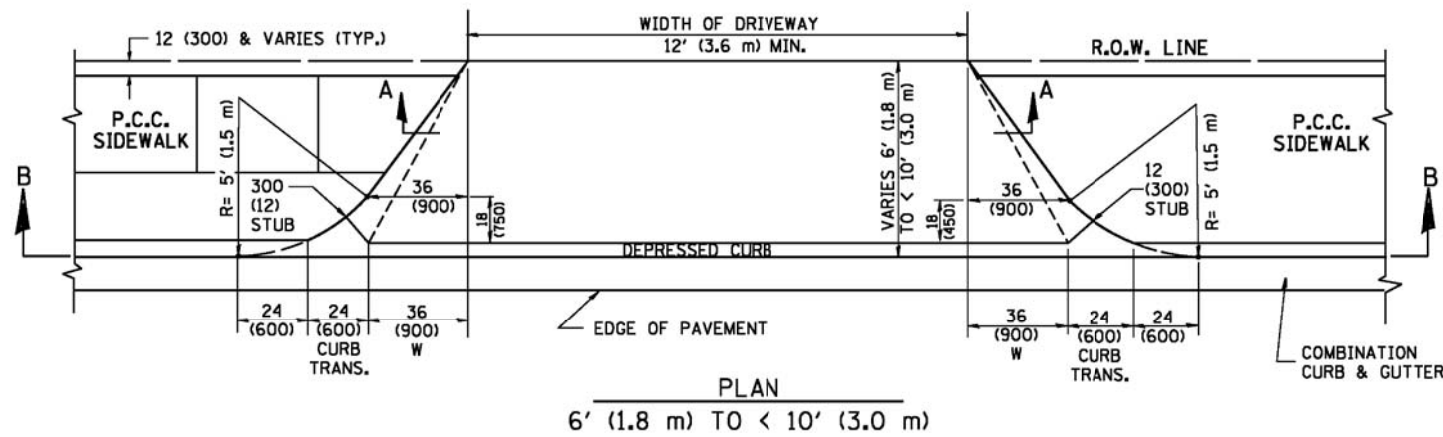
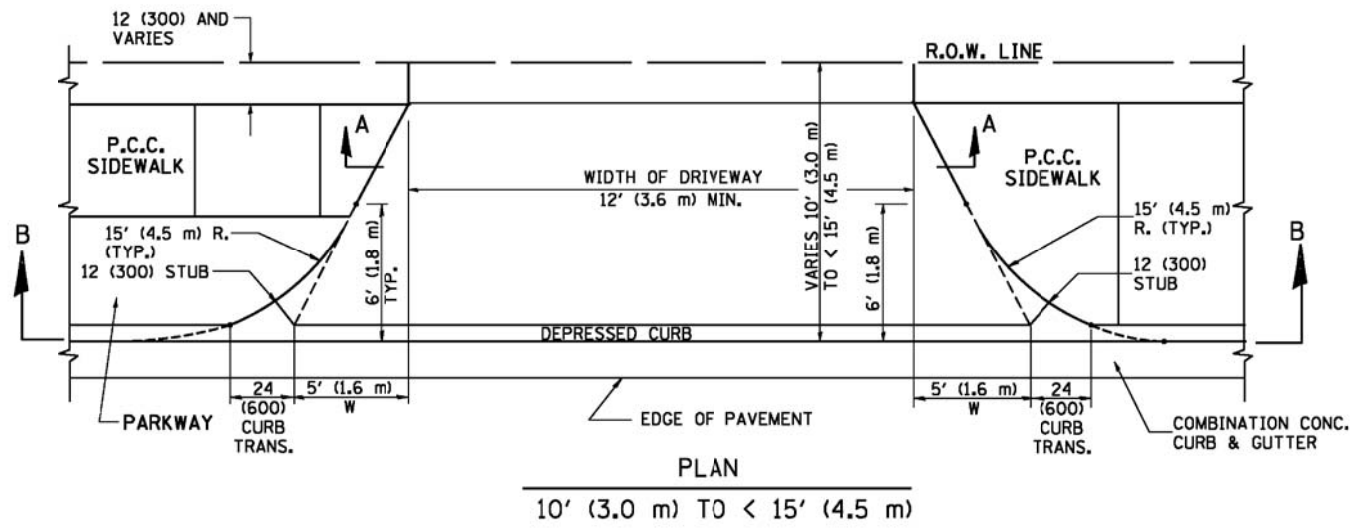


USER NAME = 101990	DESIGNED - R. SHAH	REVISED - P. LoFLUER 04-15-03
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - R. BORO 06-11-08
PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 63
BD0156-07 (BD-01)		CONTRACT NO. 60P65		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				



**GENERAL NOTES**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/26/2012 10:00:00 AM  
FILE NAME: 861001961-K-09-102.dgn  
PLOT DRIVER: pdf.plt  
PEN TABLE: standard-trans.tbl



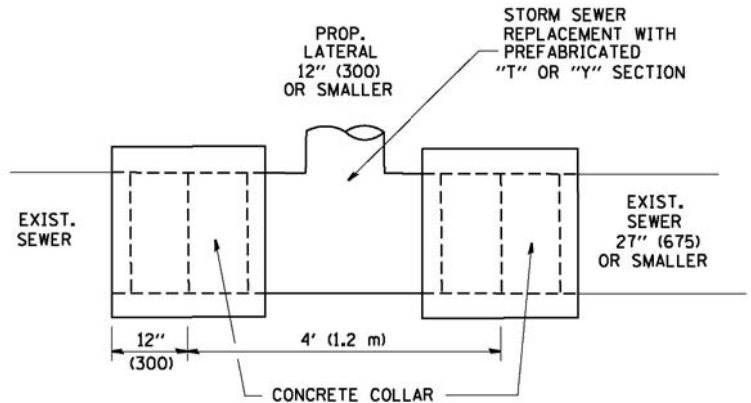
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	DRAWN -	REVISED - P. LOFLEUR 04-15-03
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 10/26/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

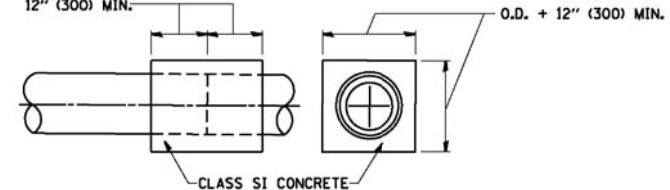
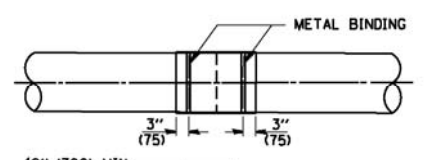
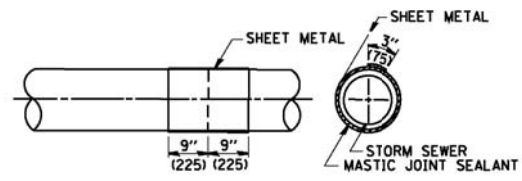
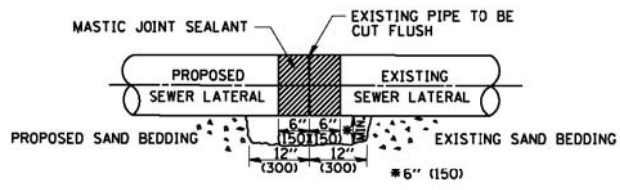
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	64
BD400-02 (BD-02)			CONTRACT NO. 60P65	
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				





**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

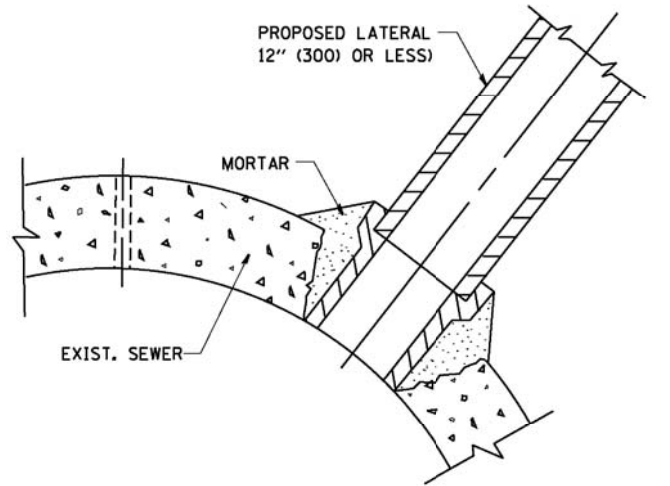


**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 L1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
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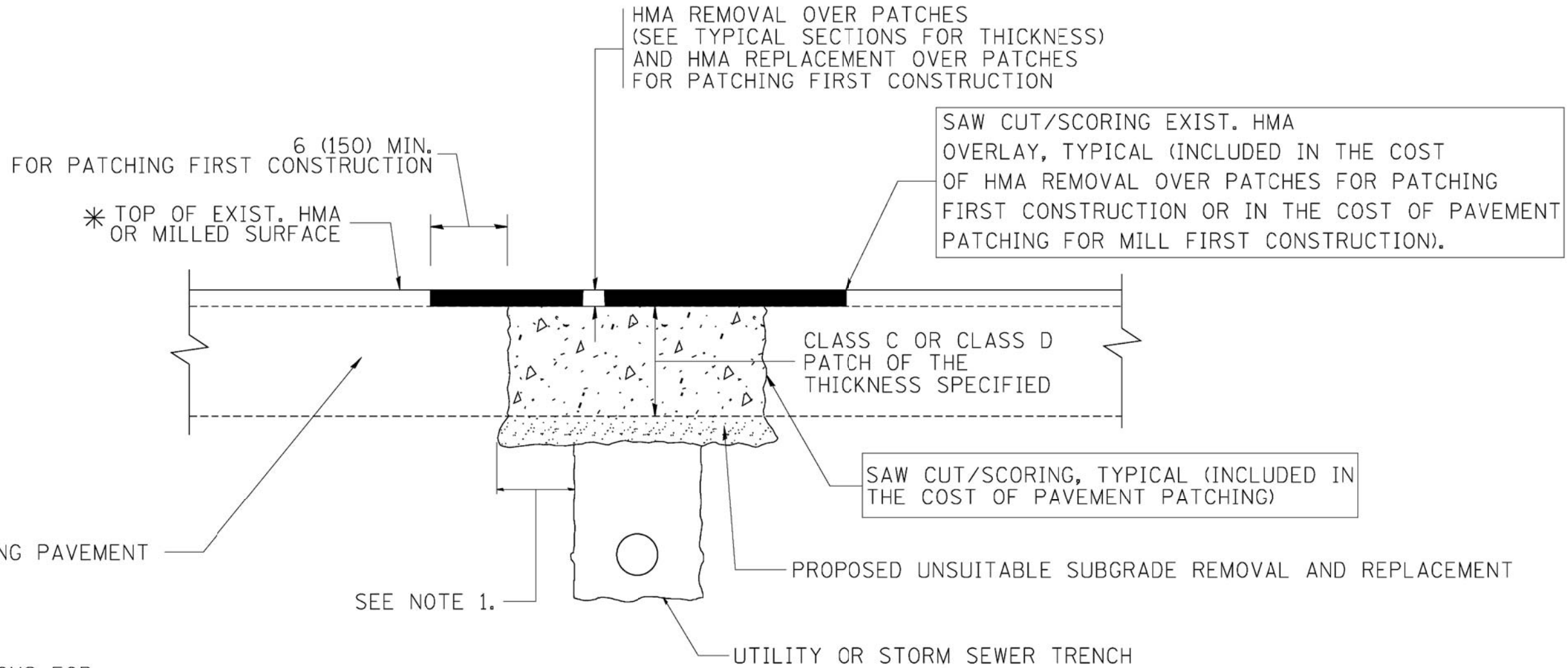


USER NAME = gaj:snobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
	DRAWN -	REVISED - R. SHAH 09-09-94
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94
PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	65
<b>BD500-01 (BD-7)</b>			<b>CONTRACT NO. 60P65</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/26/2012 10:08 PM  
 FILE NAME: 8610019614-091-05.dgn  
 PLOT DRIVER: pdf.plt  
 PEN TABLE: standard-trans.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 # 18-001322

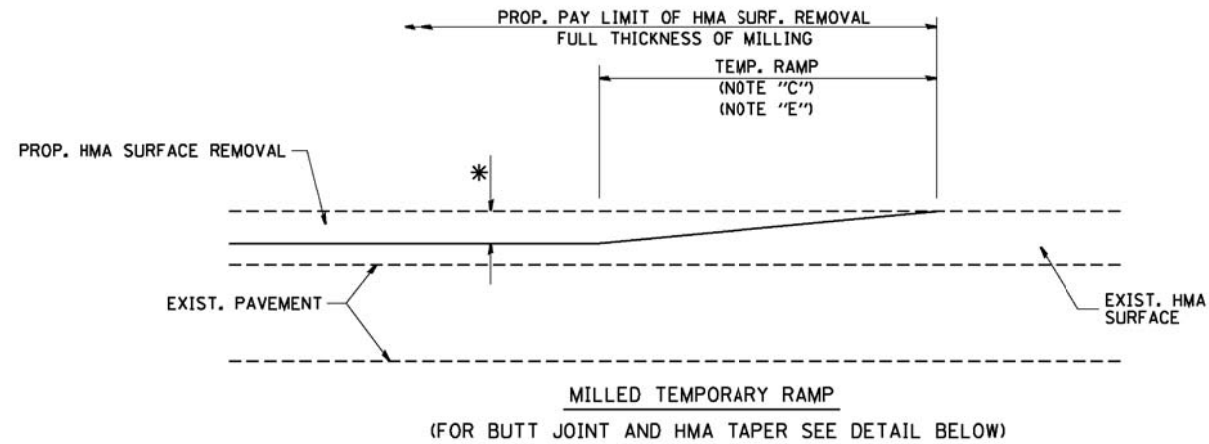
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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

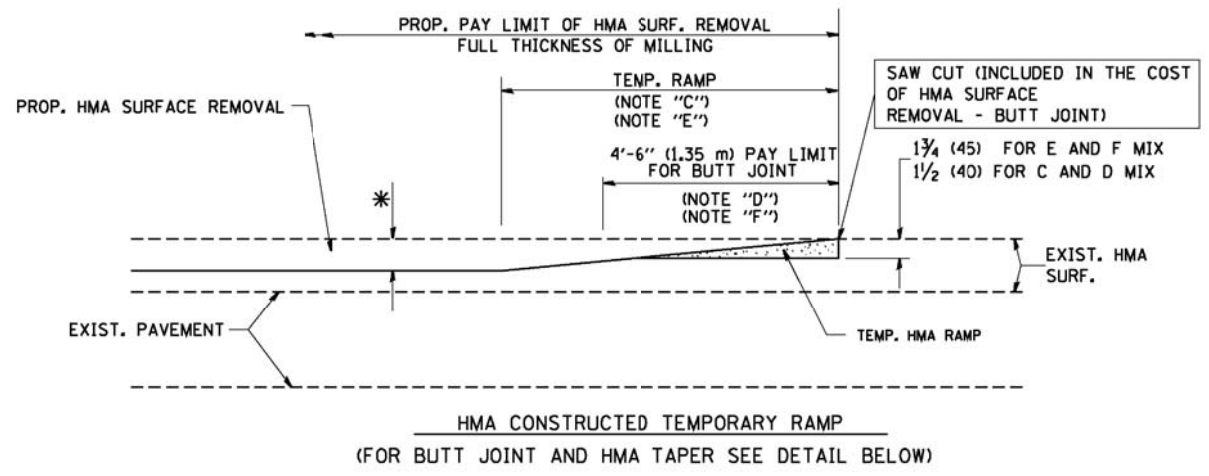
**PAVEMENT PATCHING FOR  
 HMA SURFACED PAVEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

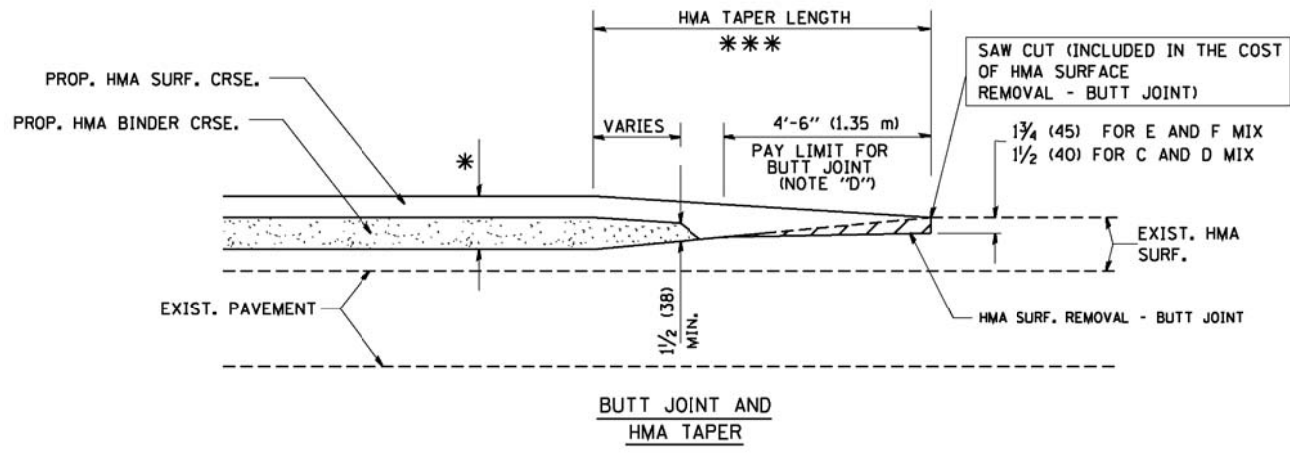
F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 66
BD400-04 (BD-22)		CONTRACT NO. 60P65		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



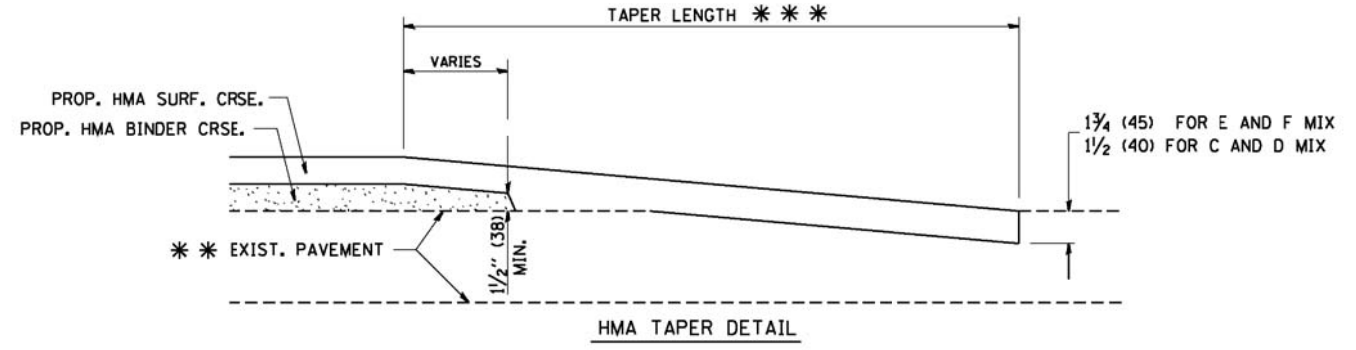
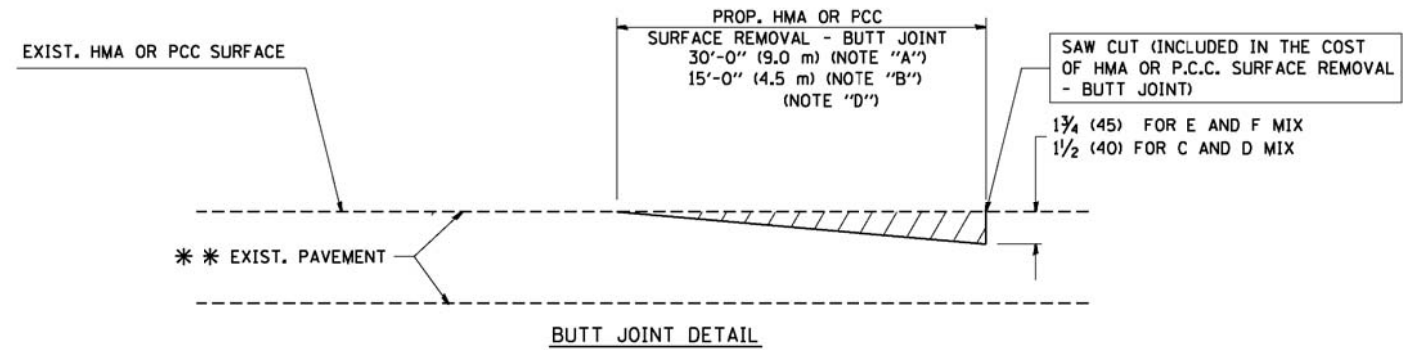
**OPTION 1**



**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**  
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/26/2012 10:42 AM  
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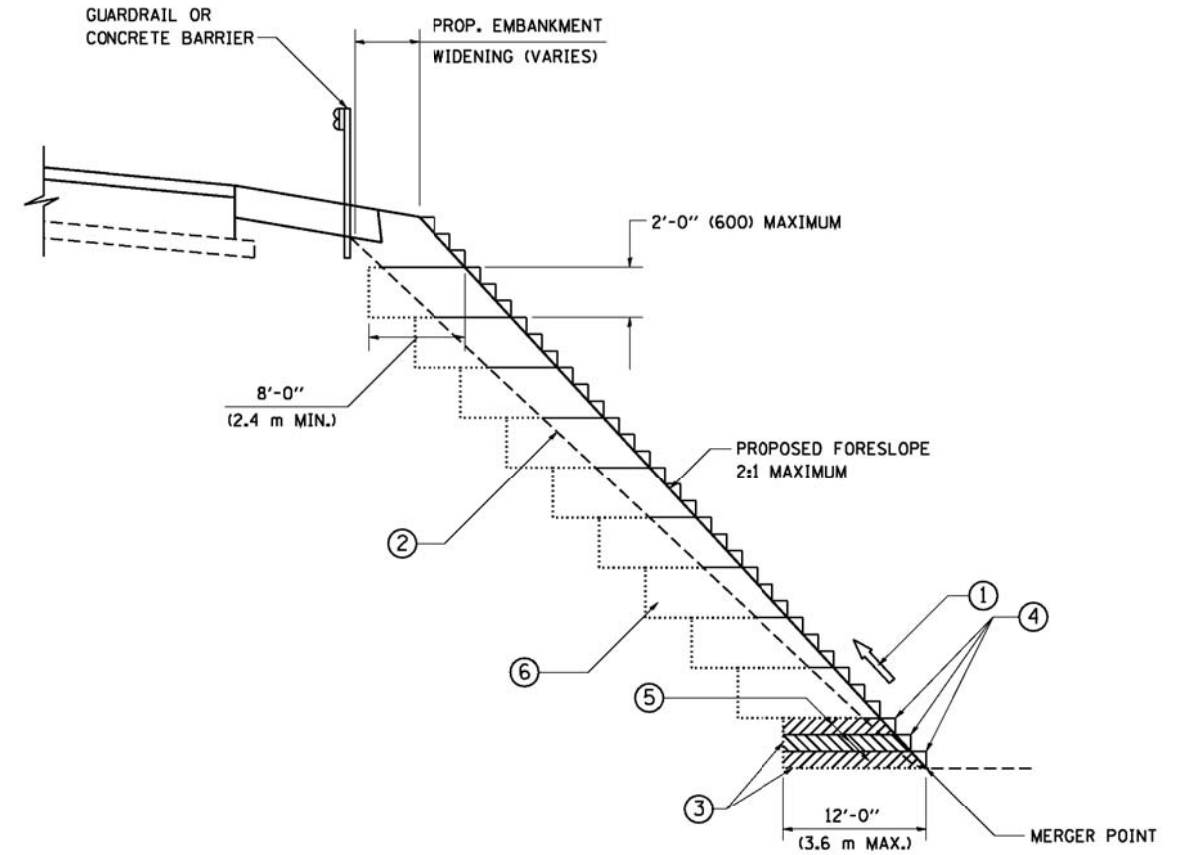


USER NAME = gaj:enobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	67
BD400-05 BD32		CONTRACT NO. 60P65		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/26/2012 10:20:07 AM  
FILE NAME: 8610019614-061-07.dgn  
PLOT DRIVER: pdf.plt  
PEN TABLE: standard-trans.tbl



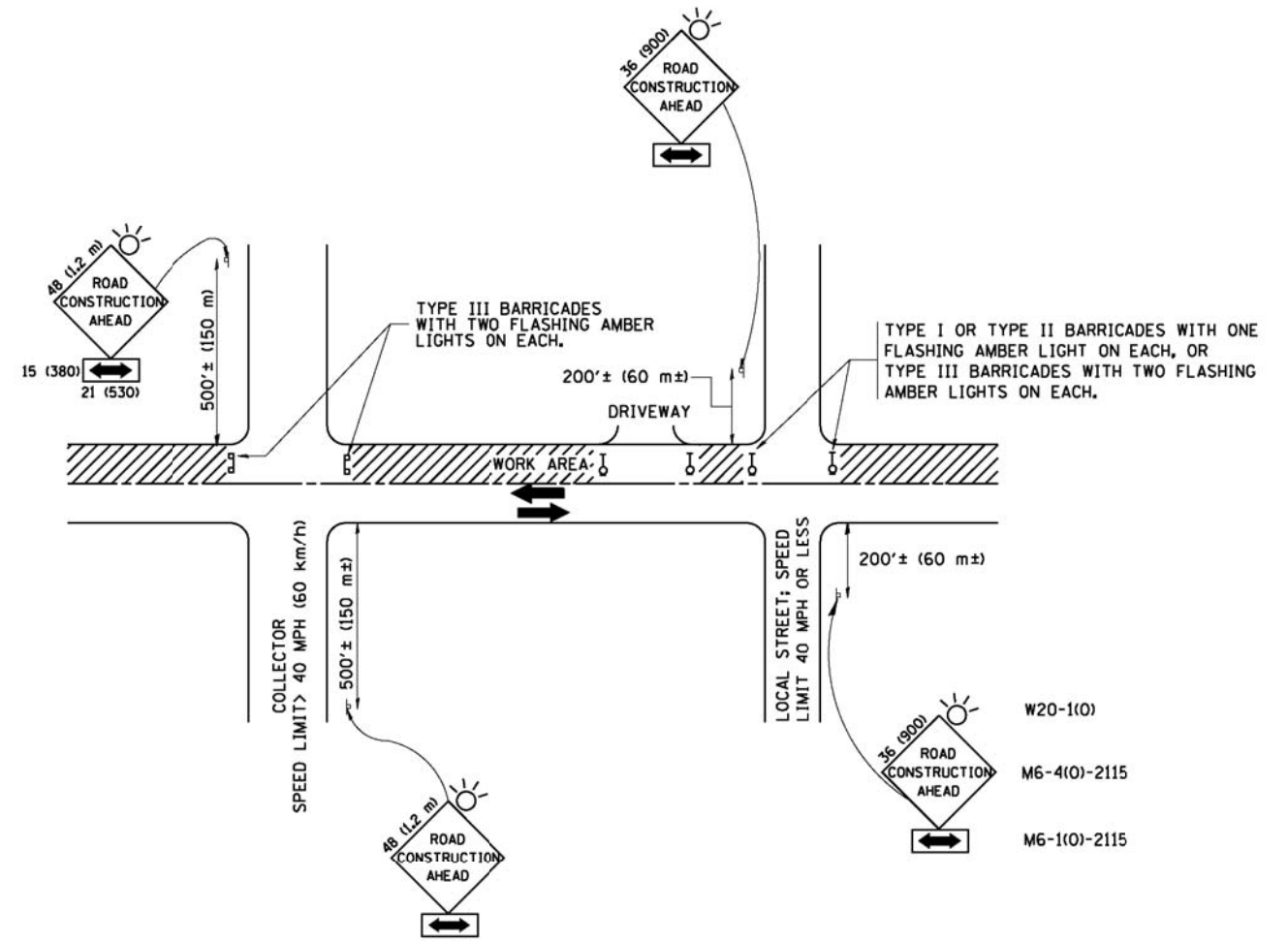
USER NAME = gegl:enobt	DESIGNED -	REVISED -
	DRAWN - CADD	REVISED -
PLOT SCALE = 50.0000' / 1"	CHECKED - S.E.B.	REVISED -
PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	68
<b>BD-51</b>			<b>CONTRACT NO. 60P65</b>	
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				





TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (Inches) unless otherwise shown.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/26/2012 10:21:17 PM  
 FILE NAME: 8610019614-09-08.dgn  
 PLOT DRIVER: pdf.plt  
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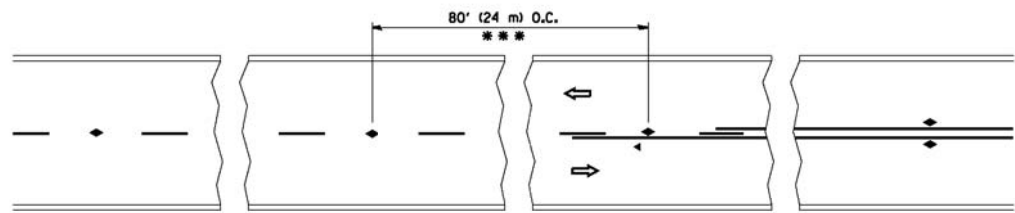
**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 # 18-001322

USER NAME = gegl:enobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
	DRAWN -	REVISED - A. HOUSEH 03-06-96
PLOT SCALE = 500.0000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

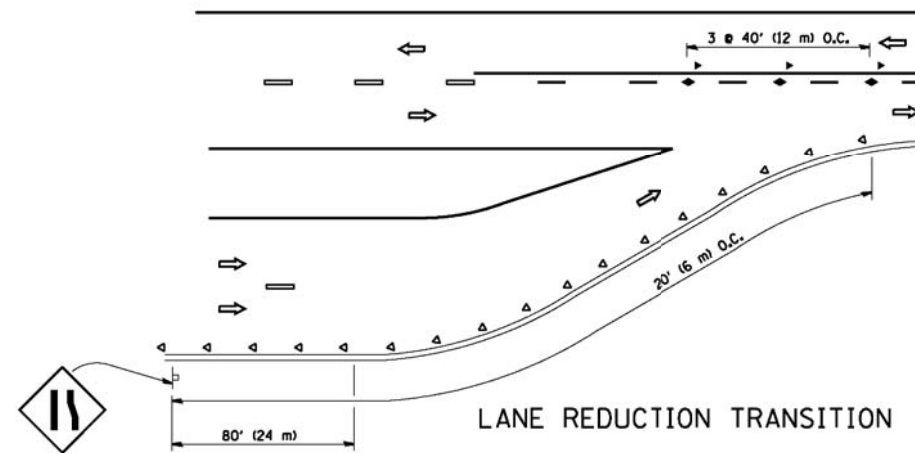
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	69
TC-10		CONTRACT NO.	60P65	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

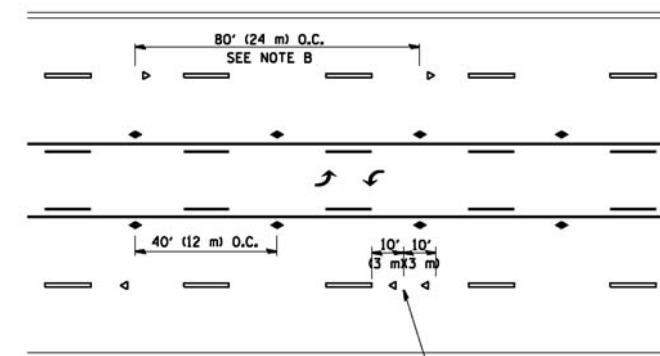


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

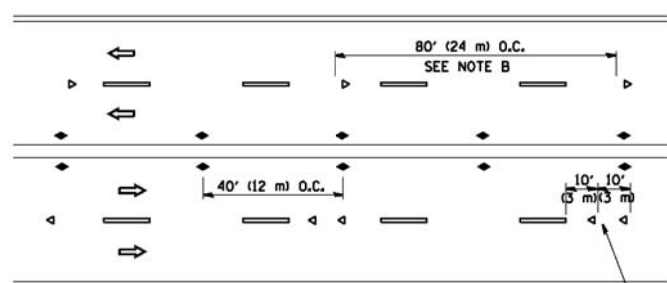
TWO-LANE/TWO-WAY



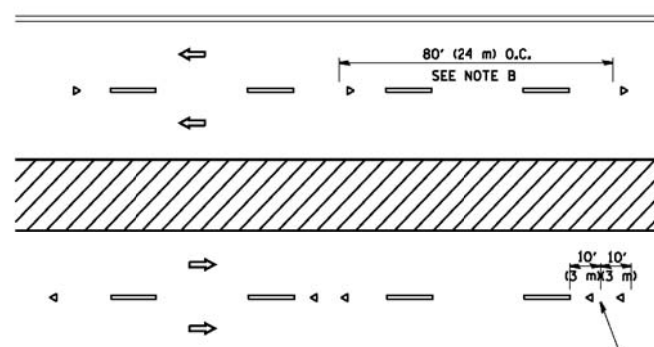
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

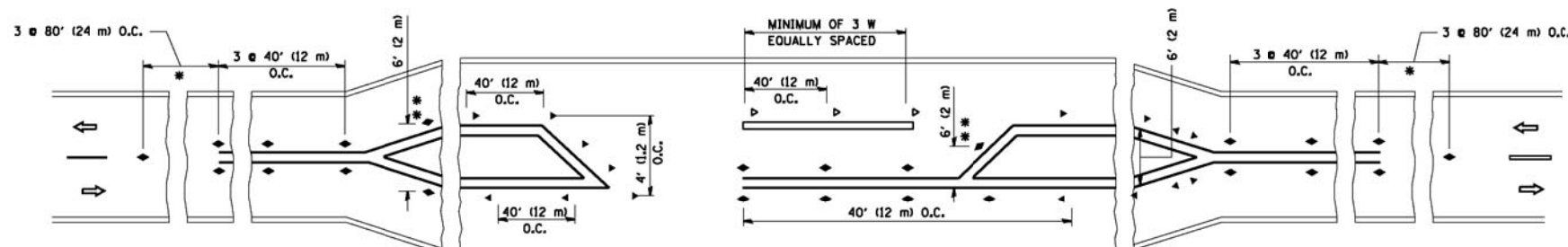
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
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 FILE NAME: 861001961-1-08-09.dgn  
 PLOT DRIVER: pdf.plt  
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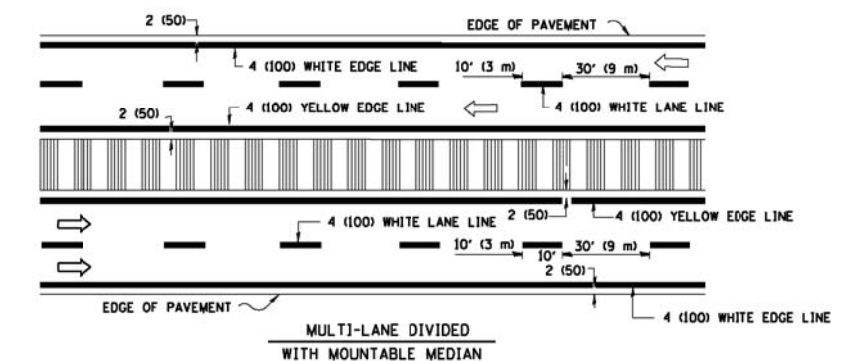
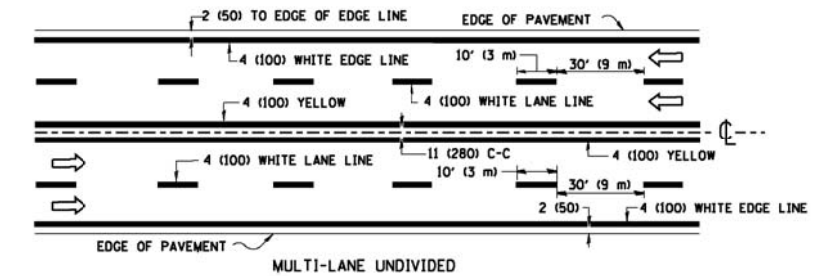
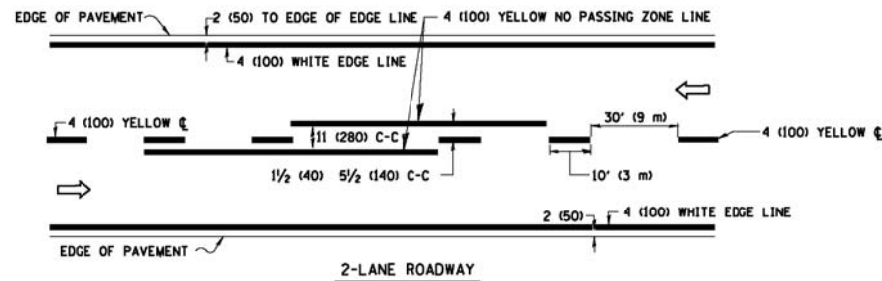


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	DRAWN -	REVISED - T, RAMMACHER 03-12-99
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - T, RAMMACHER 01-06-00
PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

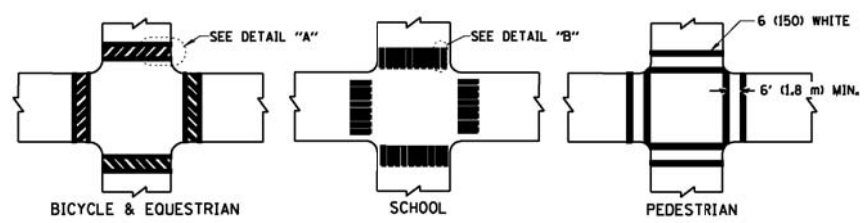
TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11		CONTRACT NO. 60P65		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

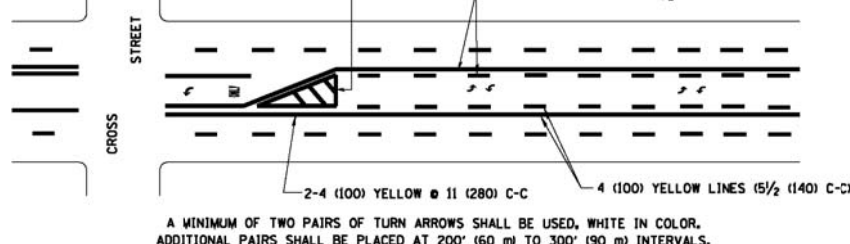
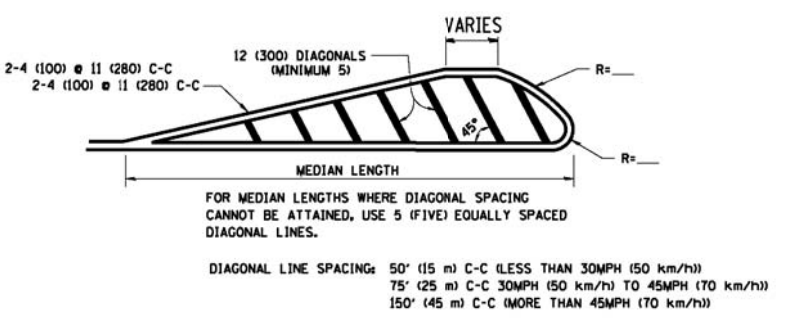
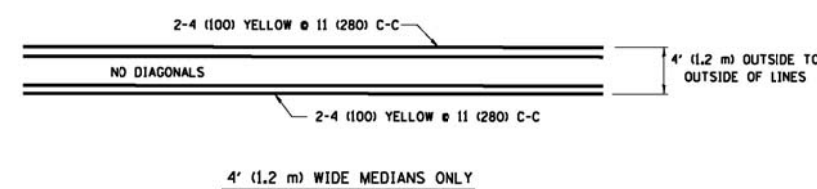


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

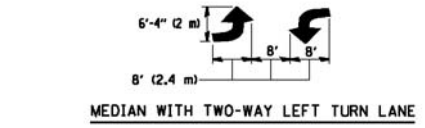
**TYPICAL LANE AND EDGE LINE MARKING**



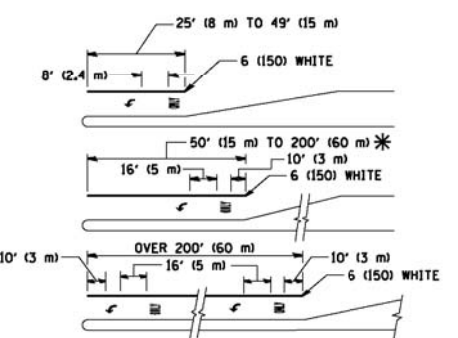
**TYPICAL CROSSWALK MARKING**



**TYPICAL PAINTED MEDIAN MARKING**



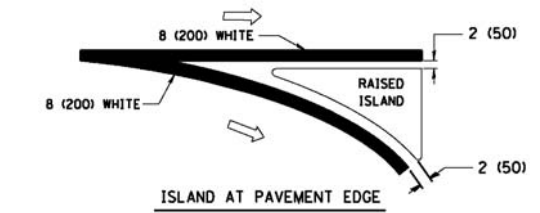
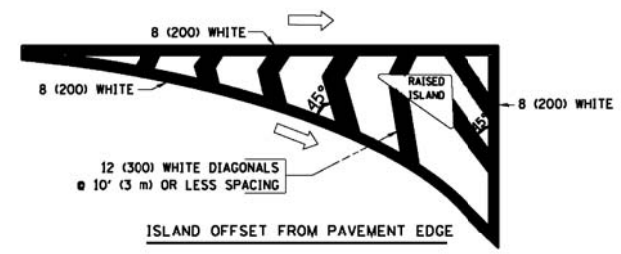
**TYPICAL LEFT (OR RIGHT) TURN LANE**



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/26/2012 10:51:14 PM  
FILE NAME: 861001961-R-09-10.dgn  
PLOT DRIVER: pdf.plt  
PEN TABLE: standard-trans.tbl

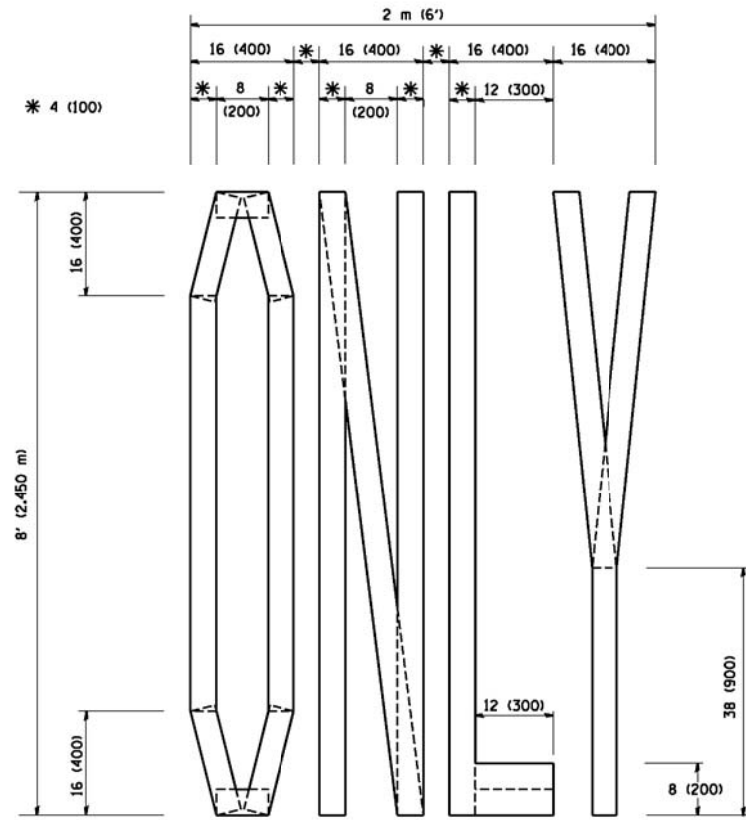


USER NAME = gajisenobt	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - A. HOUSEH 10-09-96
PLOT DATE = 1/4/2008	CHECKED -	REVISED - A. HOUSEH 10-17-96
	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

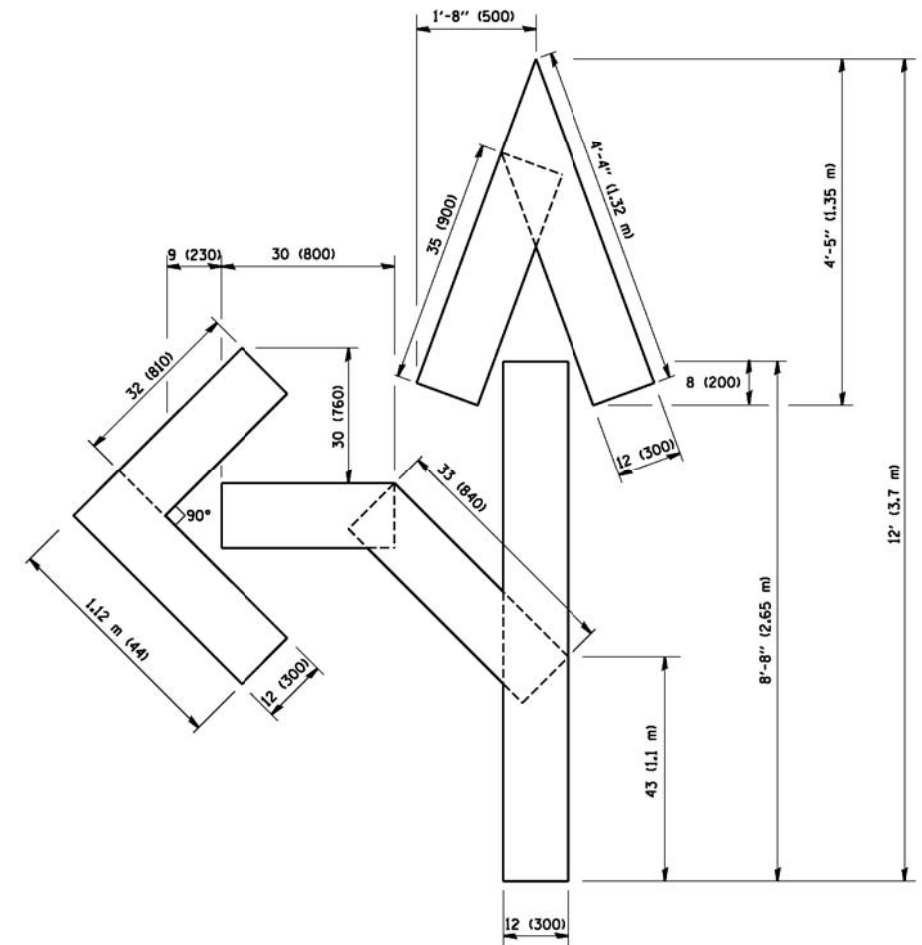
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

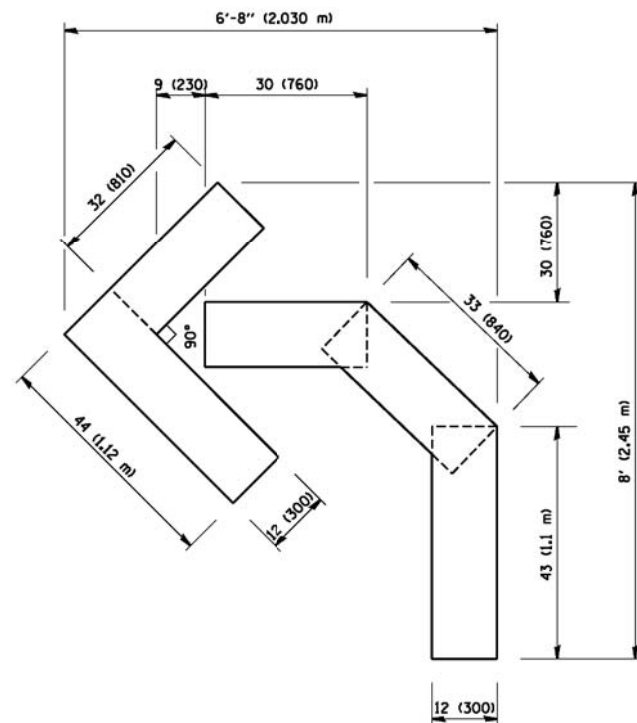
F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 71
TC-13		CONTRACT NO. 60P65	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



QUANTITY  
4 (100) LINE = 64.1 ft. (19.7 m)  
21.1 sq. ft. (1.97 sq. m)



QUANTITY  
4 (100) LINE = 82.5 ft. (25.3 m)  
27.5 sq. ft. (2.53 sq. m)



QUANTITY  
4 (100) LINE = 45.5 ft. (13.9 m)  
15.2 sq. ft. (1.39 sq. m)

All dimensions are in Inches (millimeters) unless otherwise shown.

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 6/26/2012 10:55:58 PM  
FILE NAME: 8610019614-08-11.dgn  
PLOT DRIVER: pdfplot  
PEN TABLE: standard-trans.tbl



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	DRAWN -	REVISED -T. RAMMACHER 11-04-97
PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
PLOT DATE = 1/4/2008	DATE = 09-18-94	REVISED -E. GOMEZ 08-28-00

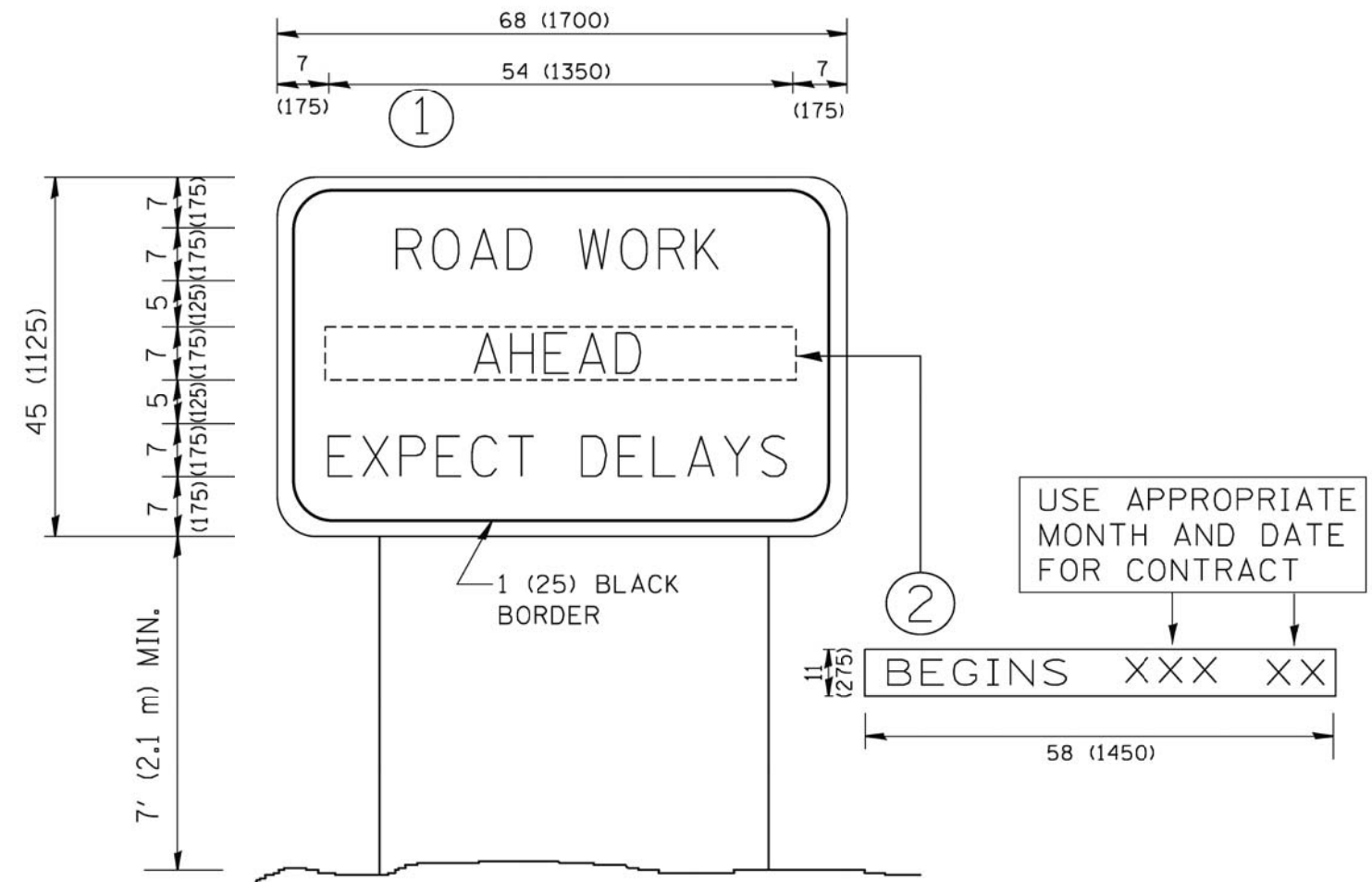
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	72
TC-16			CONTRACT NO.	60P65
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/26/2012 10:06:17 PM  
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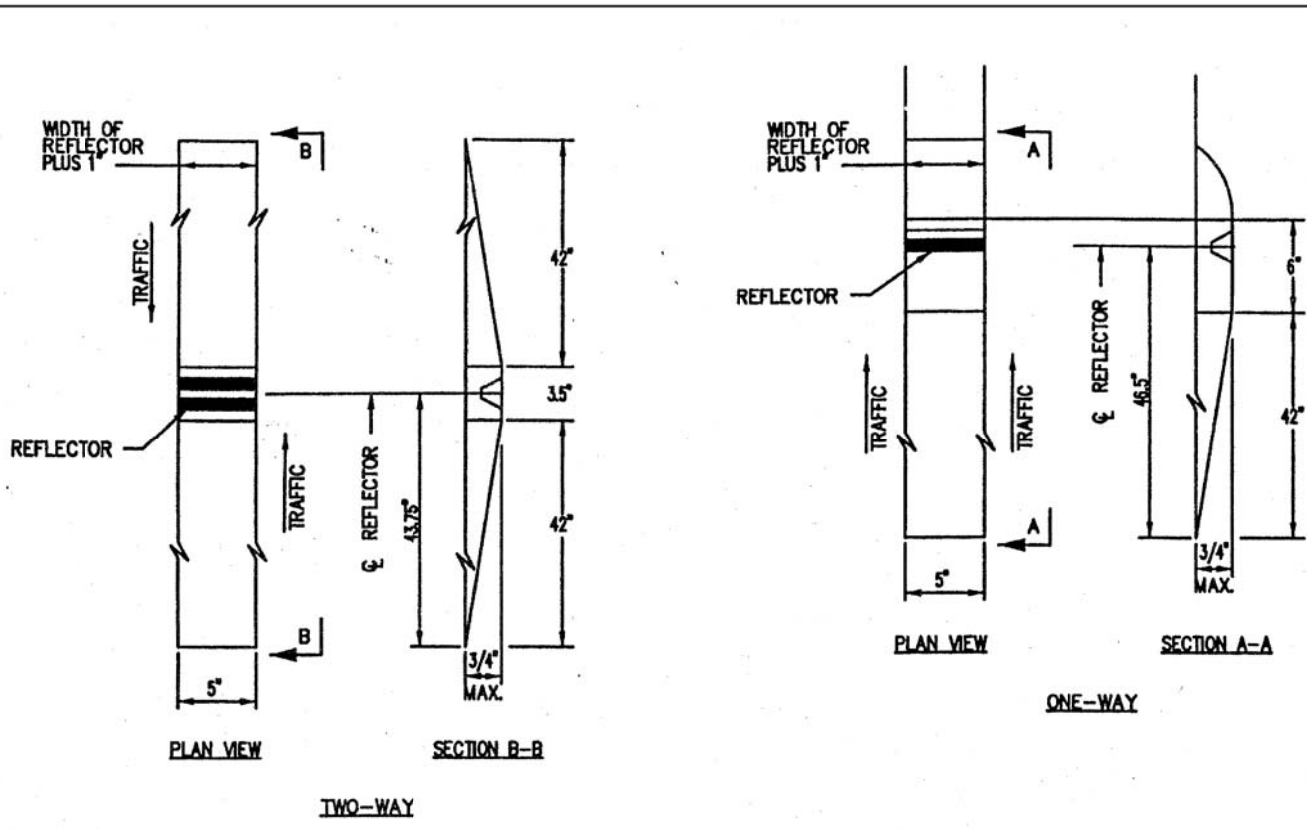
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PLOT DRIVER: pdf.plt		DATE: -	REVISED: - C. JUCIUS 01-31-07
PEN TABLE: standard-trans.tbl			

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD  
 INFORMATION SIGN

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	73
TC-22			CONTRACT NO. 60P65	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- GENERAL NOTES:**
1. Installation shall conform to IDOT Highway Standard 781001-02 (or latest) for marker placement.
  2. IDOT Standard 781001-02 shall be modified to reflect recessed pavement markers instead of raised pavement markers.

**RECESSED REFLECTIVE PAVEMENT MARKERS**

- INSTALLATION NOTES:**
1. Saw cut to dimensions shown.
  2. Sawcut areas to be dry and free of material that adversely affects the adhesive bond.
  3. Install the reflector with an approved two-component epoxy adhesive. Epoxy should not obscure or block the lens.
  4. Install top of reflector +/- 3/8 inch below the pavement surface.
  5. Reflector shall be 3M Series 190 or approved equivalent.

**TYPICAL  
RECESSED REFLECTIVE  
PAVEMENT MARKERS**

**STANDARD KC781001-03**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 6/26/2012 10:50:06 PM  
 FILE NAME: 8610019614-01-13.dgn  
 PLOT DRIVER: pdf.plt  
 PEN TABLE: standard-trans.tbl



USER NAME = spenal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 6/26/2012	DATE - 6/26/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY DIVISION OF TRANSPORTATION  
RECESSED REFLECTIVE PAVEMENT MARKER DETAIL**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

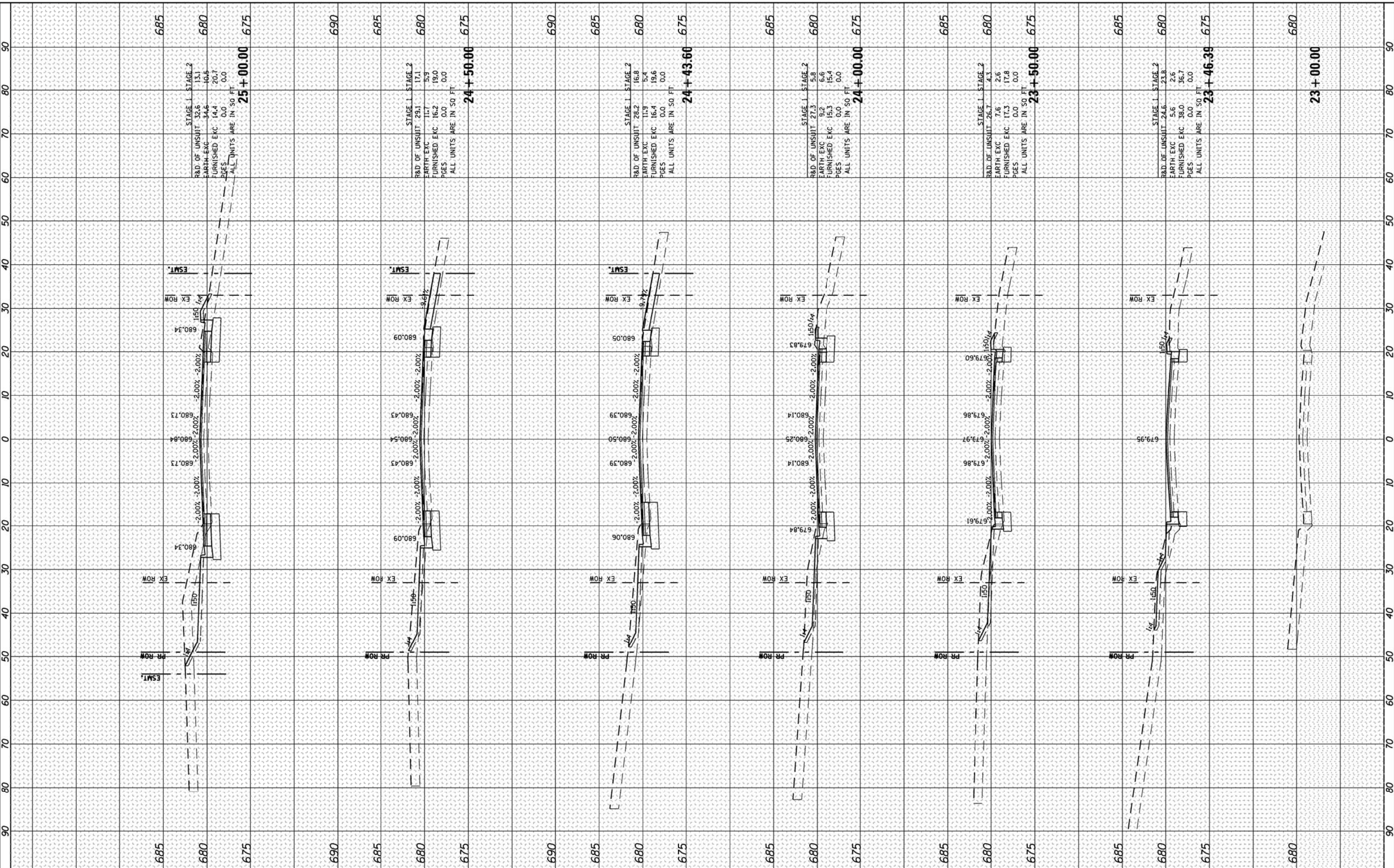
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	74
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

COMPANY NAME: HIRGreen  
 PROJECT CONTACT: 7/2/2012 2:53:09 PM  
 CLIENT: 66100166-14-100-11 31.00m  
 FILE NAME: 66100166-14-100-11 31.00m  
 PLOT DRIVER: standard-tronix.tbl



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12

REVISIONS	REVISIONS	REVISIONS	REVISIONS
REVISIONS	REVISIONS	REVISIONS	REVISIONS
REVISIONS	REVISIONS	REVISIONS	REVISIONS
REVISIONS	REVISIONS	REVISIONS	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 10H:5V      SHEET NO. 1 OF 6 SHEETS      STA. 23+00.00 TO STA. 25+00.00

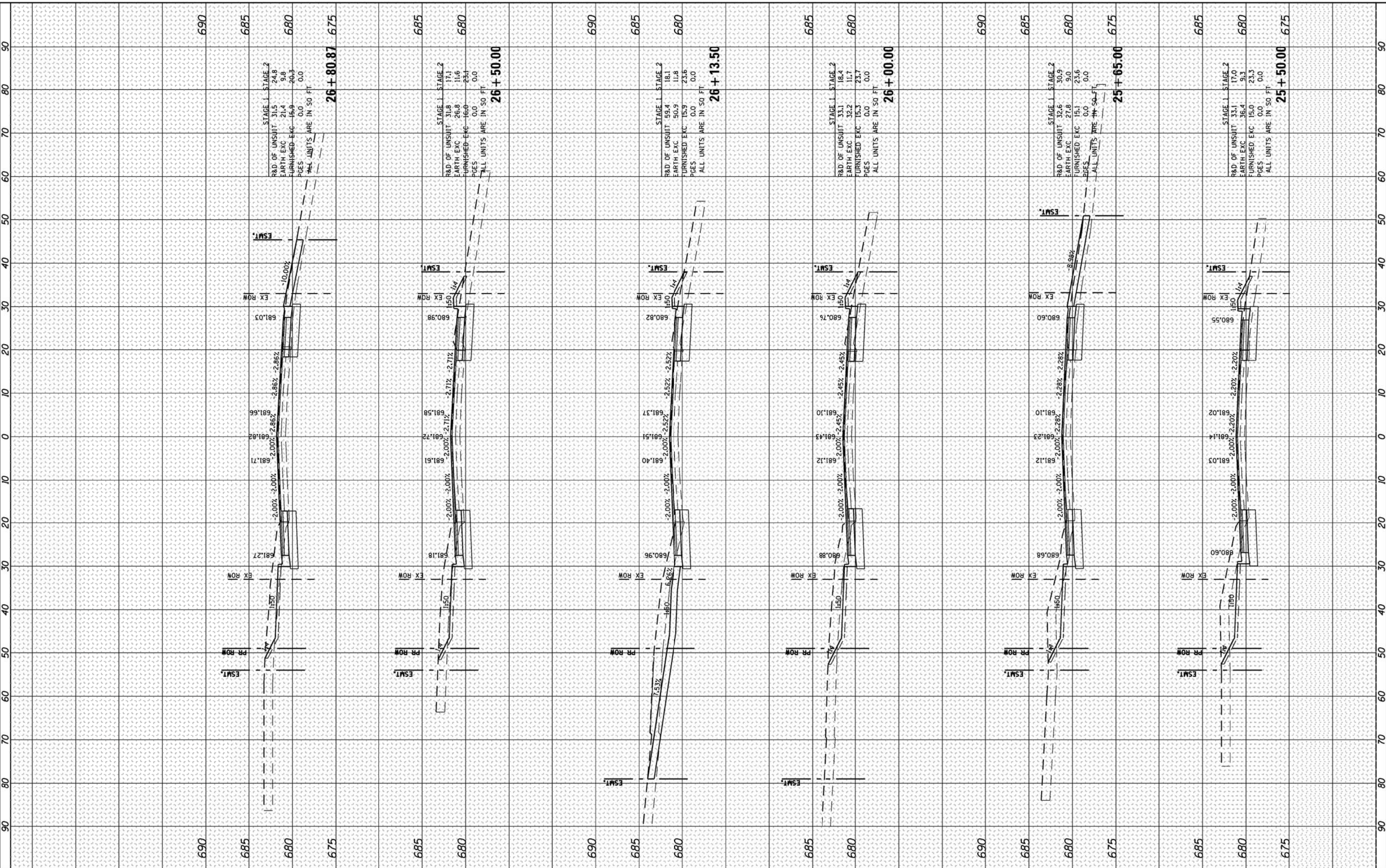
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	75
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60P65	



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
	CHECKED	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: 7/2/2012 254237 RW  
 DATE PLOTTED: 8/6/2012 14:52:11 J. J. J. J.  
 FILE NAME: 606406614-14-14-14  
 PLOT DRIVER: pofout  
 PEN TABLE: standard-truss.tbl



USER NAME	= spenal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 10H:5V      SHEET NO. 2 OF 6 SHEETS      STA. 25+50.00 TO STA. 26+80.87

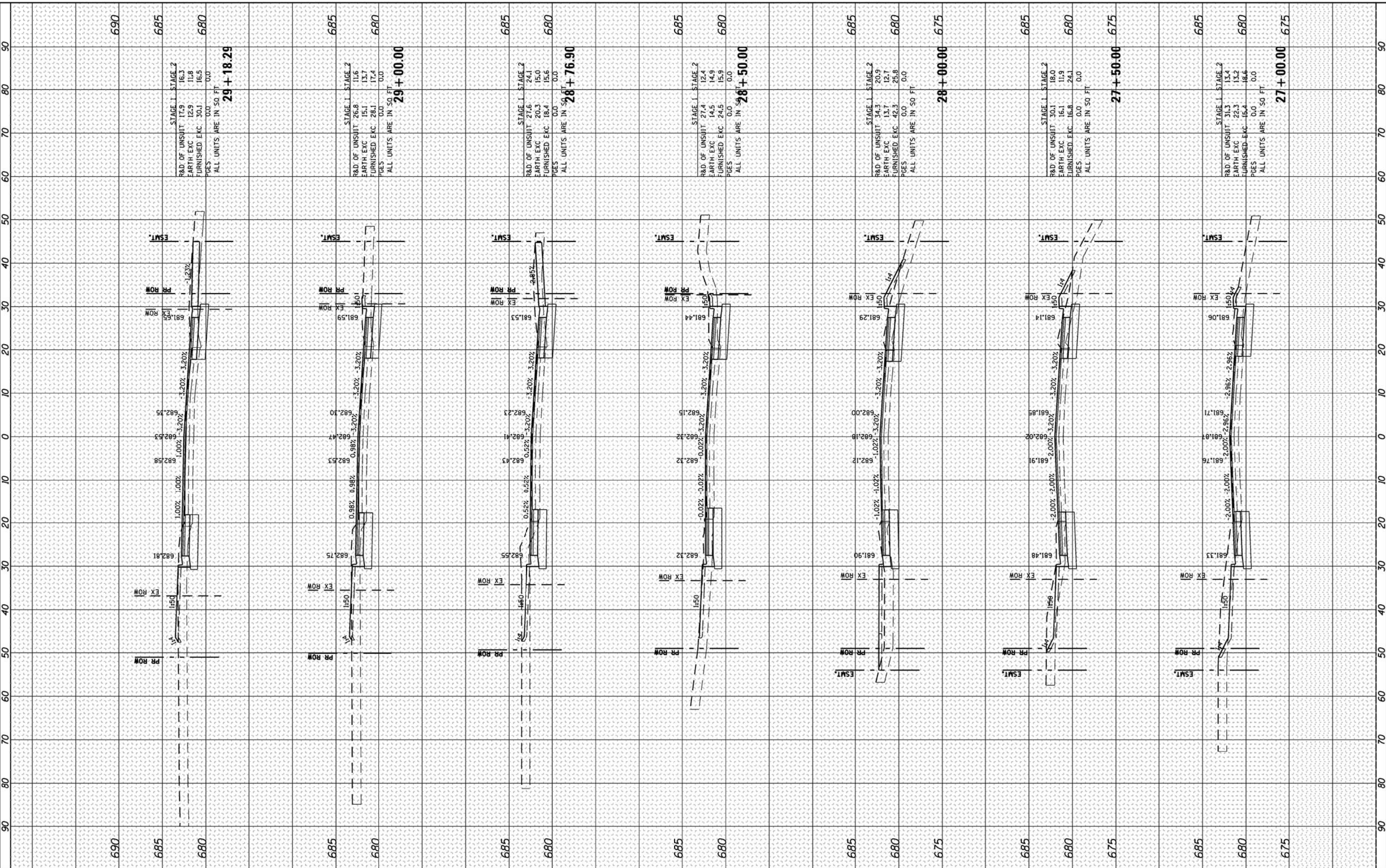
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	76
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

COMPANY NAME: HIRGreen  
 PROJECT CONTACT: 7/2/2012 25506 BM  
 CLIENT: 8610196-1P-30-1L 31.00p  
 DATE PLOTTED: 8/2/12  
 FILE NAME: 807401  
 PLOT DRIVER: standard-trans.tbl  
 PEN TABLE:



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 10H:5V SHEET NO. 3 OF 6 SHEETS STA. 27+00.00 TO STA. 29+18.29

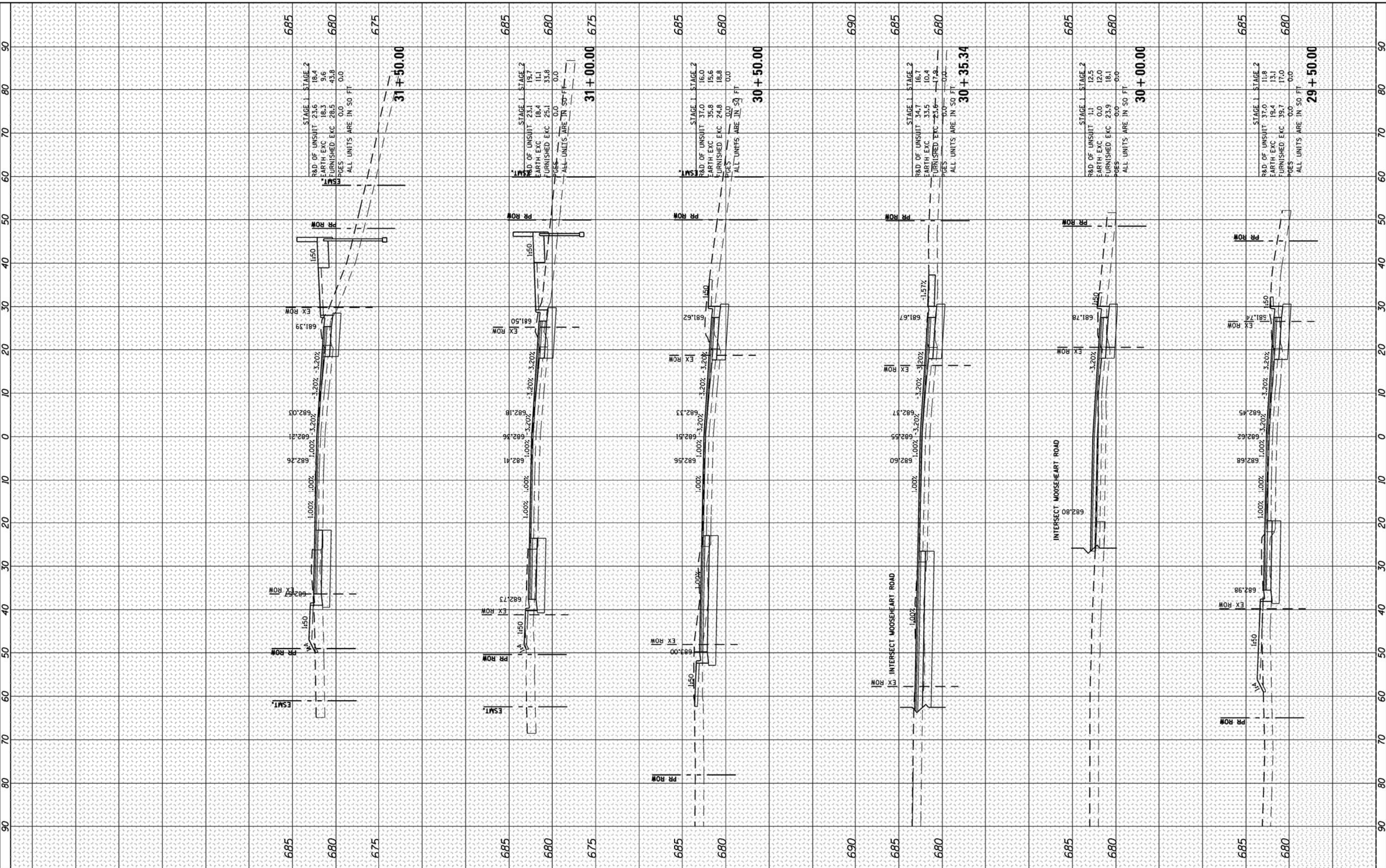
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	77
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT 60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMP.		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMP.		
	AREAS		
	CHECKED		

COMPANY NAME: HIRGreen  
 PROJECT CONTACT: HIRGreen.com  
 CLIENT: Illinois Professional Design Firm  
 DATE PLOTTED: 7/2/2012 2:56:00 PM  
 FILE NAME: 66100166-14-100-11\_1.dgn  
 PLOT DRIVER: pofout  
 PEN TABLE: standard-truss.tbl



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12

REVIS	-
REVIS	-
REVIS	-
REVIS	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 10H:5V      SHEET NO. 4 OF 6 SHEETS      STA. 29+50.00 TO STA. 31+50.00

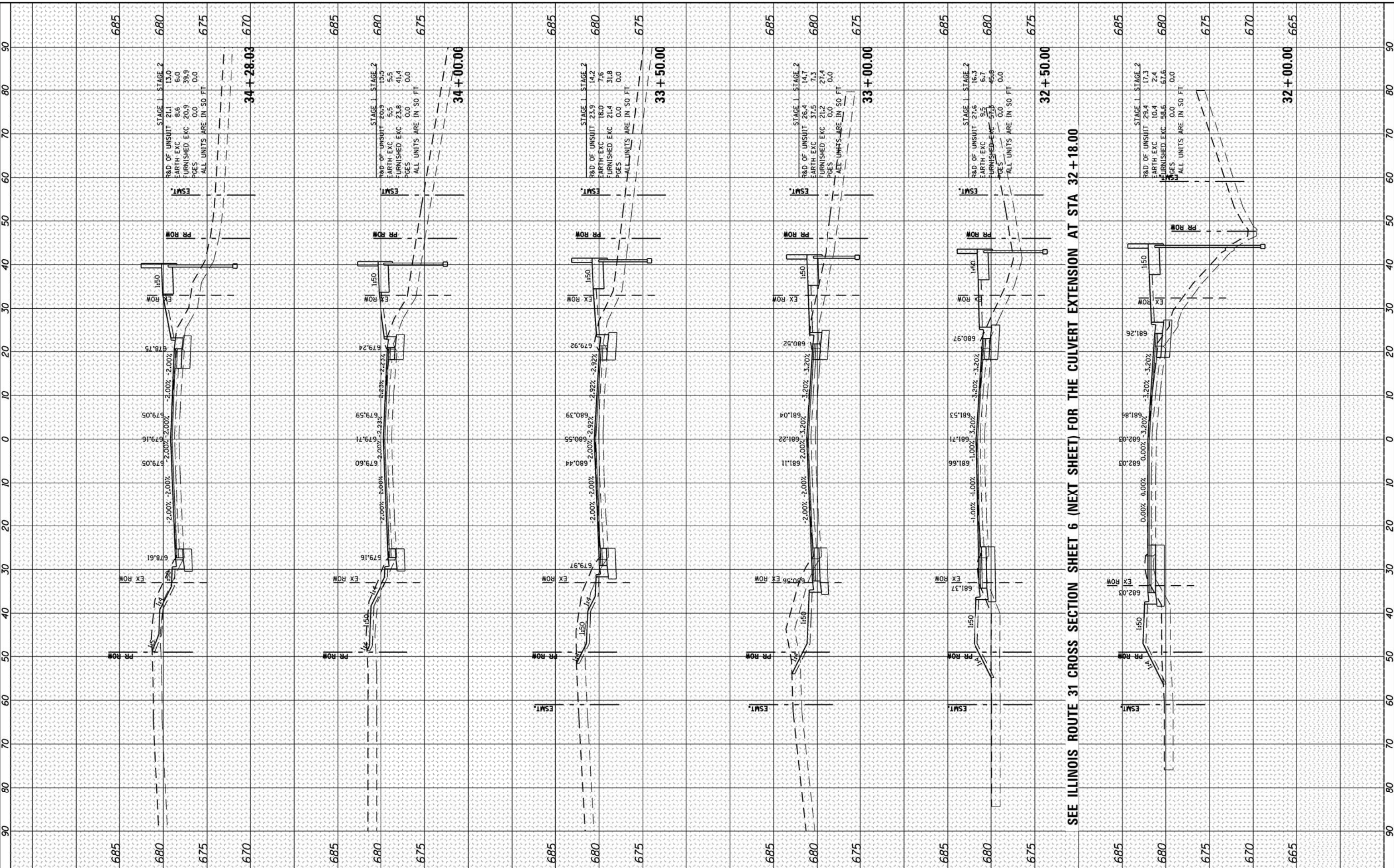
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	78
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT 60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: 7/2/2012 2:56:46 PM  
 FILE NAME: 66100161-P-32-11\_31.dgn  
 PLOT DRIVER: pofcut  
 PEN TABLE: standard-truss.tbl



SEE ILLINOIS ROUTE 31 CROSS SECTION SHEET 6 (NEXT SHEET) FOR THE CULVERT EXTENSION AT STA 32 + 18.00

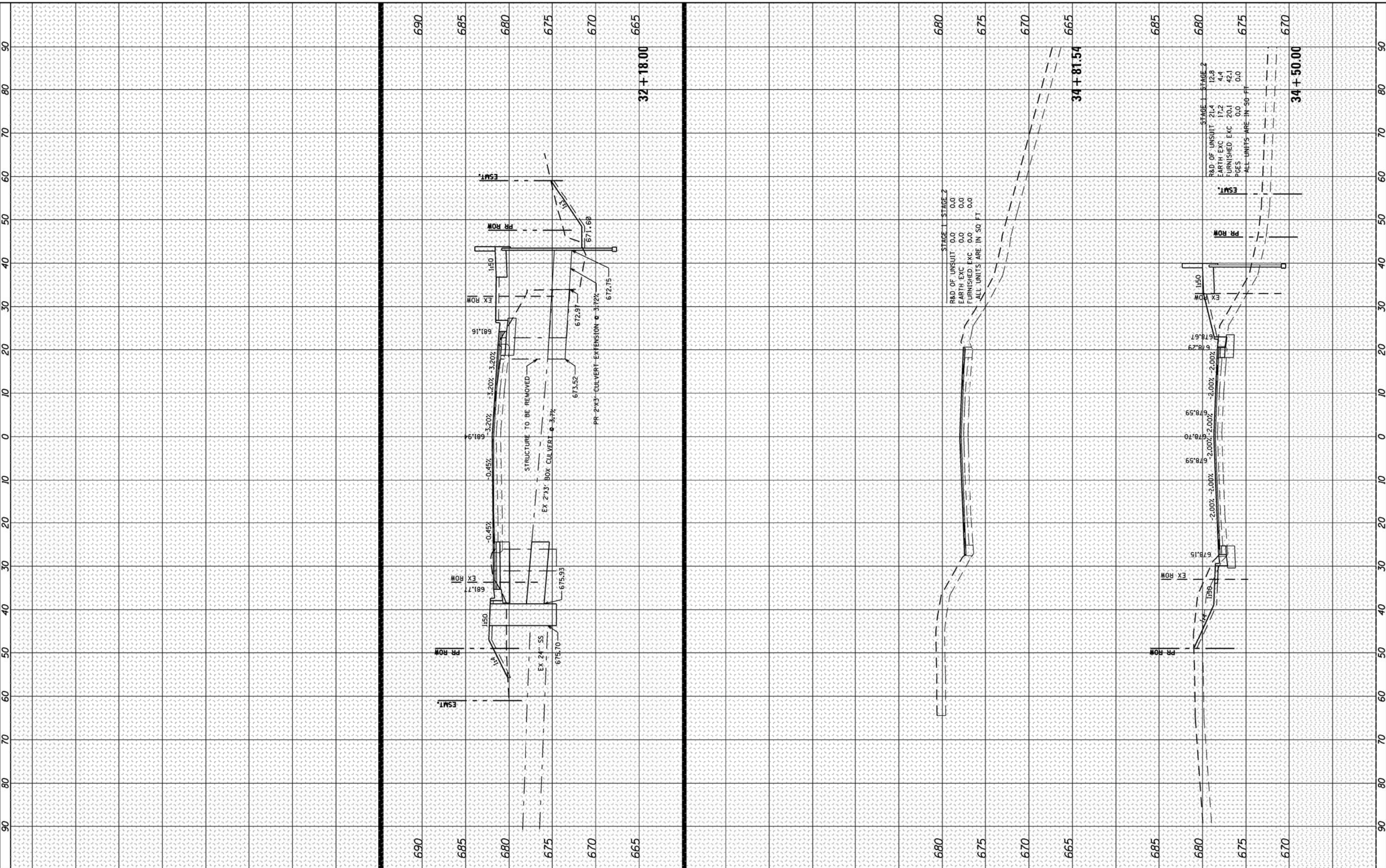
HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = spernal DESIGNED - C. HARTKE DRAWN - S. PERNAL CHECKED - T. HAMILTON DATE - 7/2/12	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>ILLINOIS ROUTE 31</b>	SCALE: 10H:5V SHEET NO. 5 OF 6 SHEETS STA. 32+00.00 TO STA. 34+28.03	F.A. RTE. 3887 SECTION AR-N-2 COUNTY KANE TOTAL SHEETS 85 SHEET NO. 79 CONTRACT NO. 60P65	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 60P65
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

COMPANY NAME: HRGreen  
 PROJECT CONTACT: 7/2/2012 2:53:27 PM  
 CLIENT: 66100186-14-25C-1L 31.000  
 FILE NAME: 606401  
 PLOT DRIVER: standard-traces.tbl



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

SCALE	= 10H:5V
DATE	= 7/2/2012

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS ILLINOIS ROUTE 31</b>	
SCALE: 10H:5V	SHEET NO. 6 OF 6 SHEETS
STA. 34+50.00 TO STA. 34+81.54	

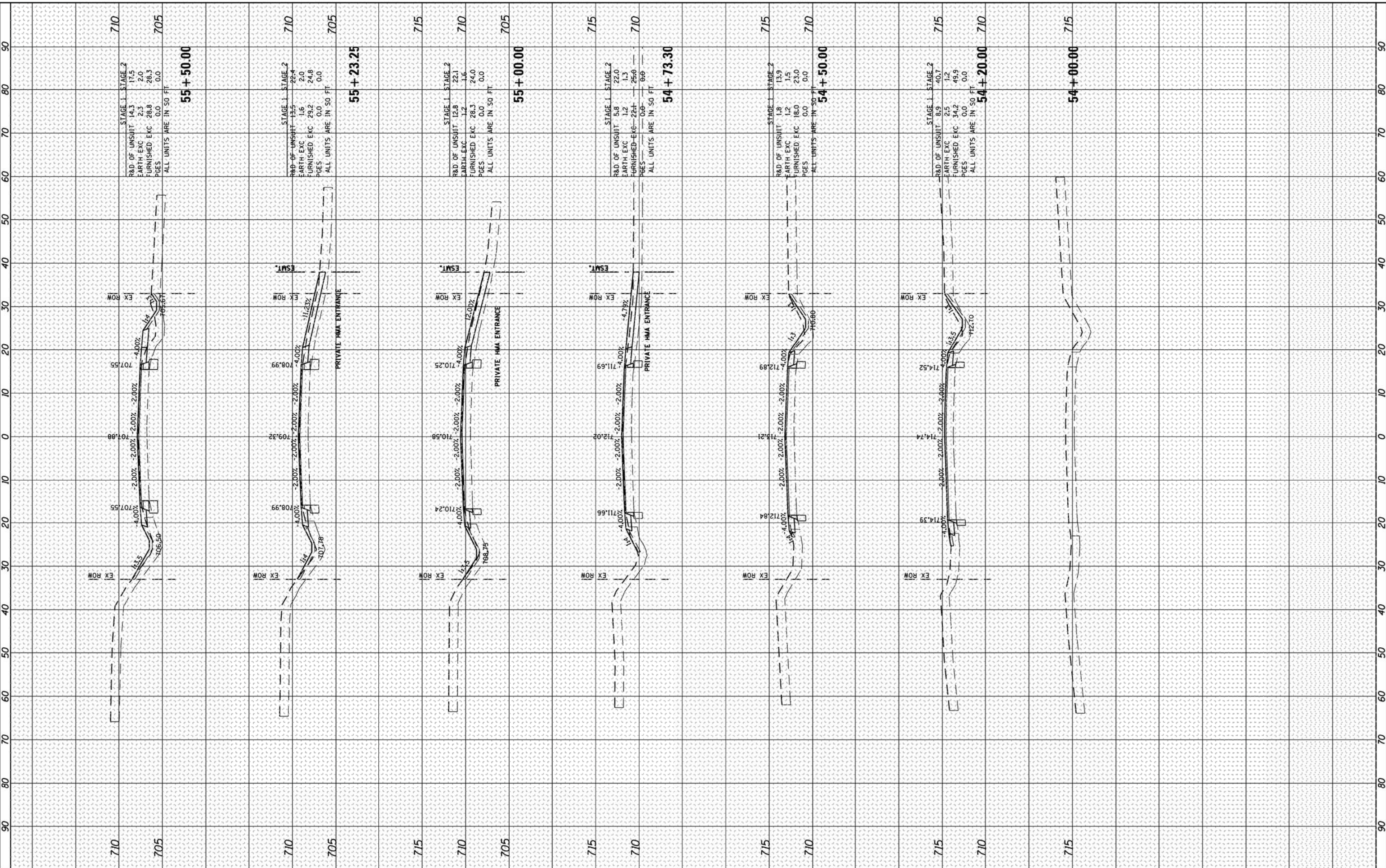
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	80
CONTRACT NO. 60P65			60P65	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: STATE OF ILLINOIS  
 FILE NAME: 66100196\_14-15C-Moose.dgn  
 PLOT DRIVER: plot.dwg  
 PEN TABLE: standard-truss.tbl



USER NAME	= spernal		
DESIGNED	- C. HARTKE	REVISED	-
DRAWN	- S. PERNAL	REVISED	-
CHECKED	- T. HAMILTON	REVISED	-
DATE	- 7/2/12	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MOOSEHEART ROAD**

SCALE: 10H:5V      SHEET NO. 1 OF 5 SHEETS      STA. 53+00.00 TO STA. 55+50.00

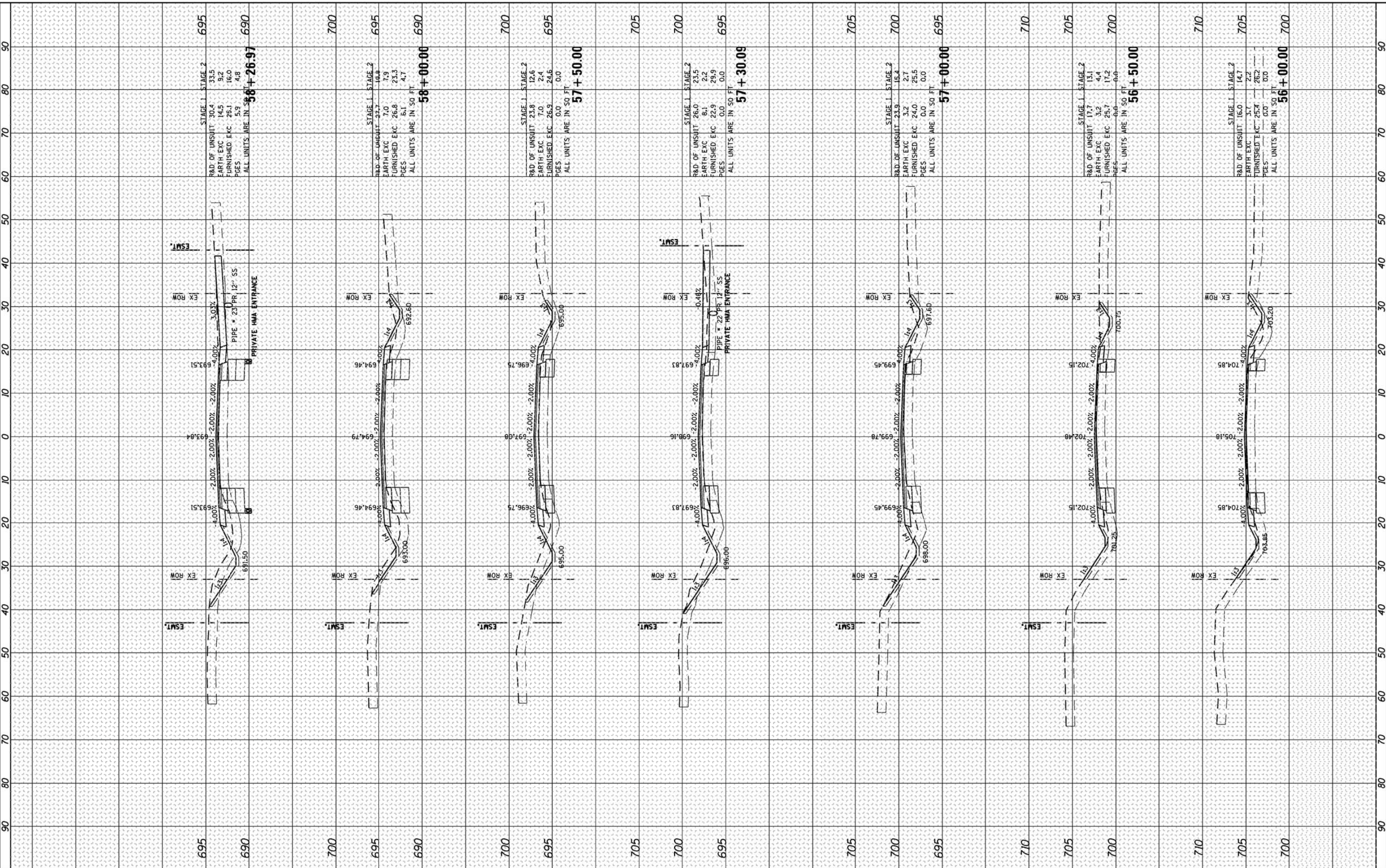
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	81
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT 60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 7/2/2012 3:56:04 PM  
 FILE NAME: 66100186\_14-13C-400SE.dgn  
 PLOT DRIVER: pofplot  
 PEN TABLE: standard-trcons.tbl



USER NAME	= spernal		
DESIGNED	- C. HARTKE	REVISED	-
DRAWN	- S. PERNAL	REVISED	-
CHECKED	- T. HAMILTON	REVISED	-
DATE	- 7/2/12	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MOOSEHEART ROAD**

SCALE: 10H:5V      SHEET NO. 2 OF 5 SHEETS      STA. 56+00.00 TO STA. 58+26.97

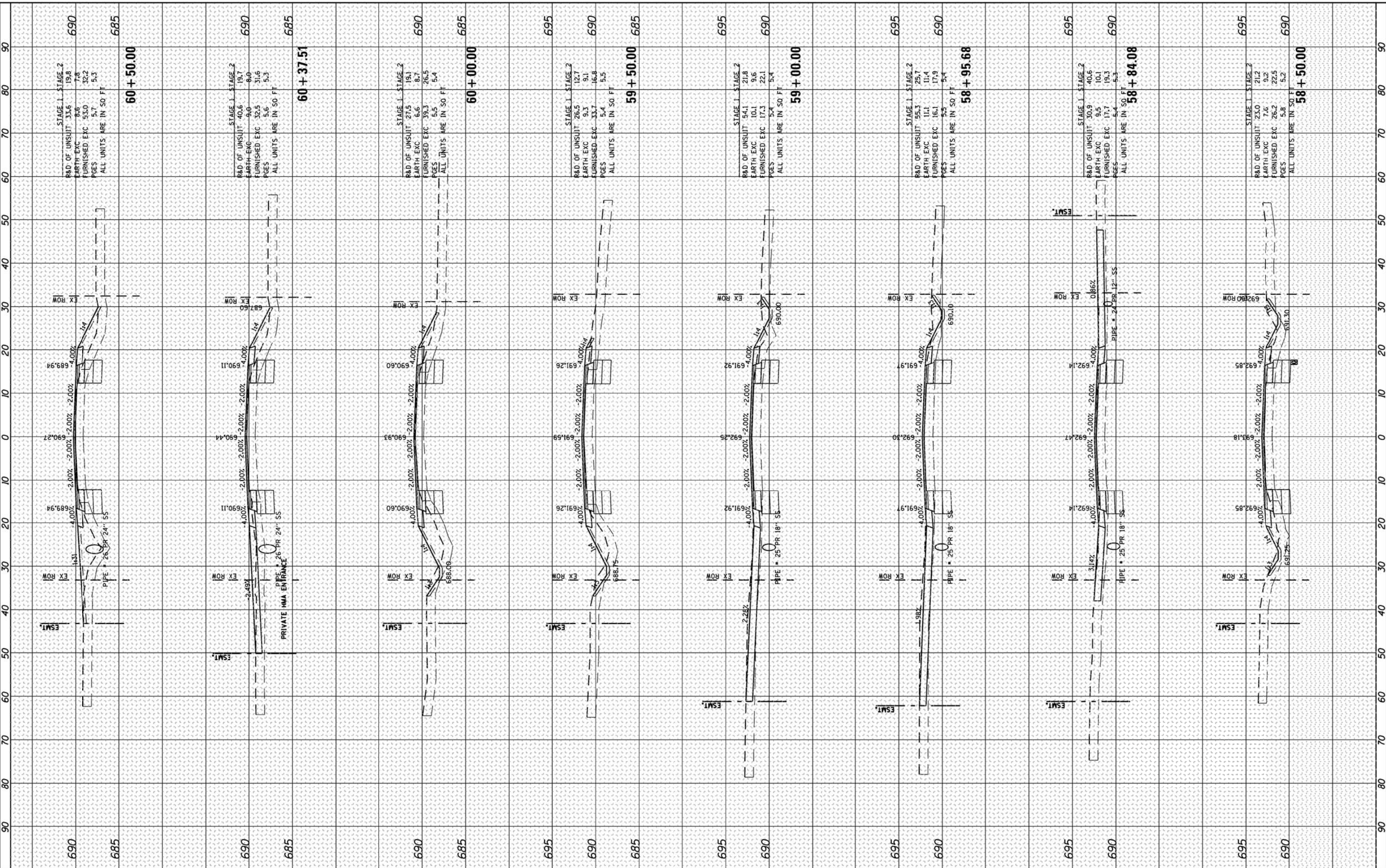
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	82
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT 60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

COMPANY NAME: HRGreen  
 PROJECT CONTACT: 7/2/2012 3:56:51 PM  
 CLIENT: 66100186\_14-13C-Moose.dgn  
 FILE NAME: 66100186\_14-13C-Moose.dgn  
 PLOT DRIVER: standard-tronx.tbl



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12

REVISIONS	REVISIONS	REVISIONS	REVISIONS
DESIGNED	- C. HARTKE	REVISIONS	-
DRAWN	- S. PERNAL	REVISIONS	-
CHECKED	- T. HAMILTON	REVISIONS	-
DATE	- 7/2/12	REVISIONS	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MOOSEHEART ROAD**

SCALE: 10H:5V      SHEET NO. 3 OF 5 SHEETS      STA. 58+50.00 TO STA. 60+50.00

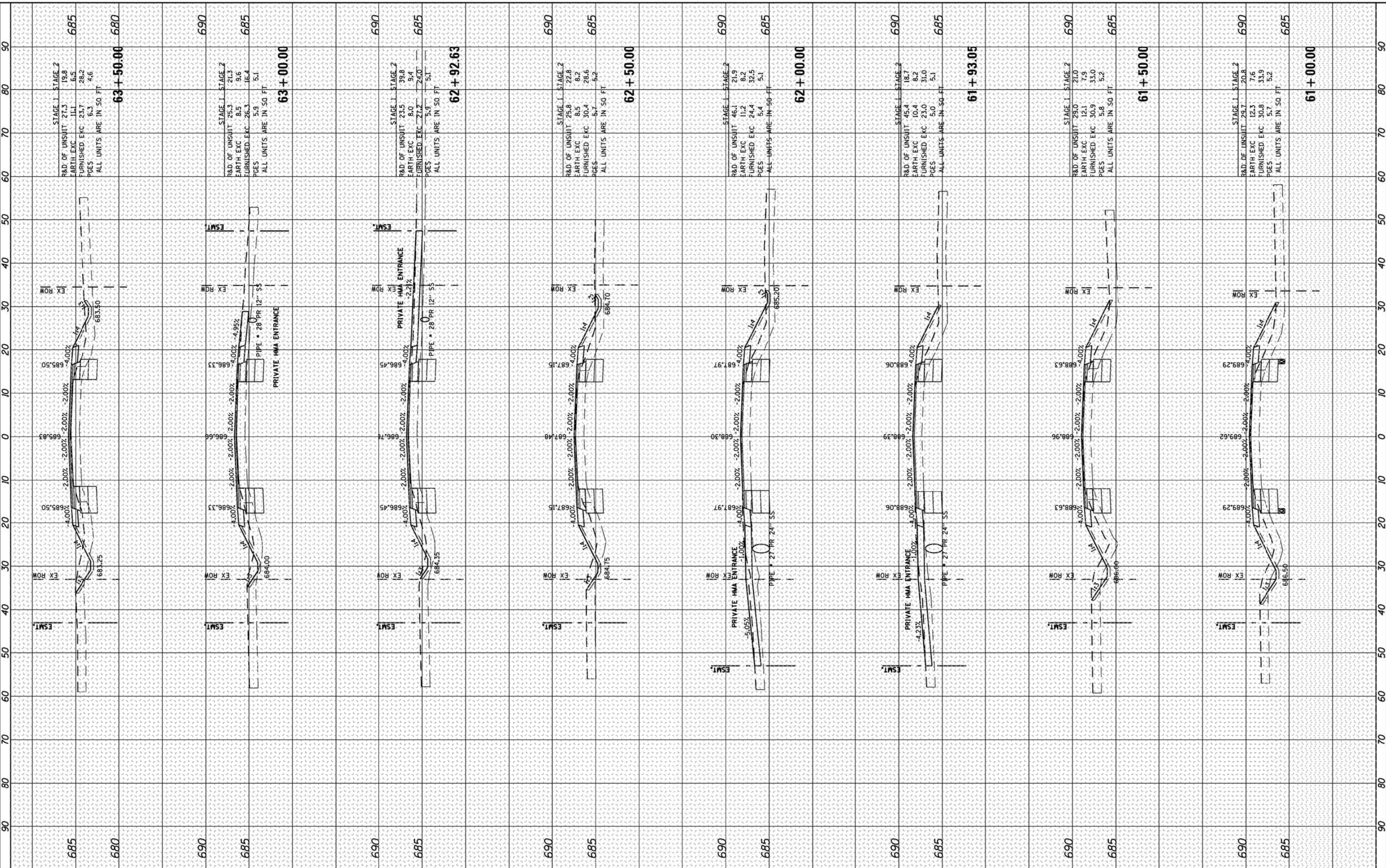
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	83
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: 7/2/2012 3:57:27 PM  
 CLIENT: 66100166\_14-15C-Moose.dgn  
 FILE NAME: 66100166\_14-15C-Moose.dgn  
 PLOT DRIVER: standard-tron.tst  
 PEN TABLE:



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12

DESIGNED	- C. HARTKE	REVISED	-
DRAWN	- S. PERNAL	REVISED	-
CHECKED	- T. HAMILTON	REVISED	-
DATE	- 7/2/12	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MOOSEHEART ROAD**

SCALE: 10H:5V SHEET NO. 4 OF 5 SHEETS STA. 61+00.00 TO STA. 63+50.00

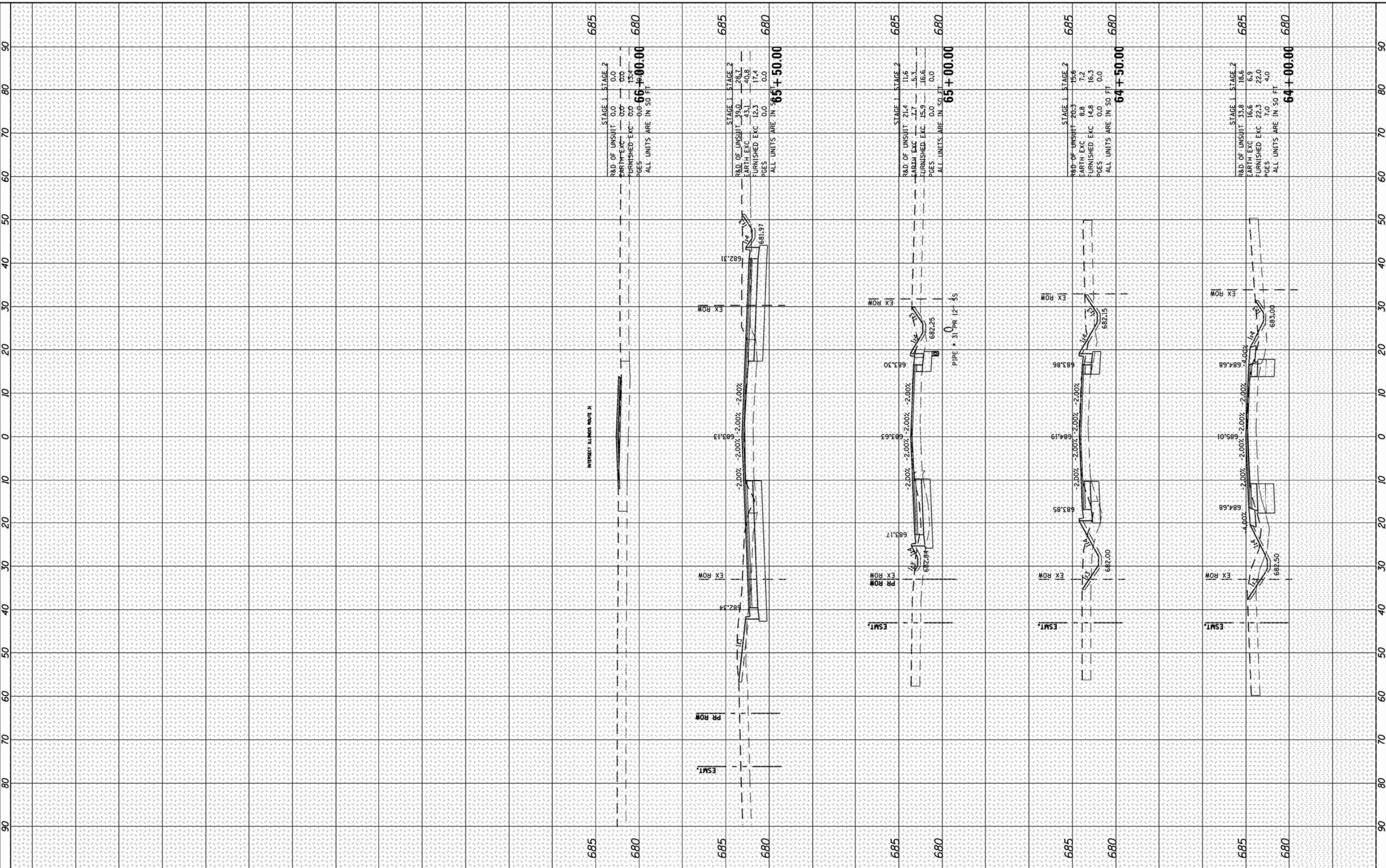
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	84
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60P65	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 7/2/2012 3:58:27 PM  
 FILE NAME: 66100196-14-15C-Moose.dgn  
 PLOT DRIVER: pofplot  
 PEN TABLE: standard-trcons.tbl



USER NAME	= spernal
DESIGNED	- C. HARTKE
DRAWN	- S. PERNAL
CHECKED	- T. HAMILTON
DATE	- 7/2/12

REVIS	-
REVIS	-
REVIS	-
REVIS	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 MOOSEHEART ROAD  
 SCALE: 10H:5V  
 SHEET NO. 5 OF 5 SHEETS  
 STA. 64+00.00 TO STA. 66+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	AR-N-2	KANE	85	85
CONTRACT NO.			60P65	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60P65	