02-28-14 LETTING ITEM 116

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	15	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60V72		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 3887 (IL ROUTE 31)
SECTION: 18W&RS–5 (12)
ILLINOIS ROUTE 31
PROJECT NO. : ACNHPP-ACM-3887 (009)
TRINITY DRIVE TO RAKOW ROAD
ADDITIONAL LANES, RETAINING WALL
McHENRY COUNTY
C–91–062–13

FOR INDEX OF SHEETS
SEE SHEET NO. 2.

PROJECT IS LOCATED IN THE:
VILLAGE OF CARY
VILLAGE OF LAKE IN THE HILLS
CITY OF CRYSTAL LAKE

DESIGN DESIGNATION

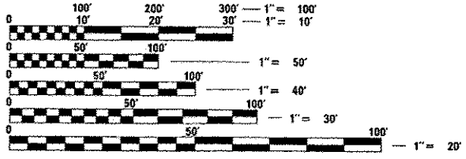
34,000(30) OTHER PRINCIPAL ARTERIAL 6.03 (PCC–20)

TRAFFIC DATA

	ADT (2030)	DESIGN SPEED	POSTED SPEED
IL ROUTE 31 (KLASEN ROAD TO RAKOW ROAD)	30,000	50 MPH	45 MPH

DESCRIPTION OF PROJECT

THIS IMPROVEMENT CONSISTS OF EARTH EXCAVATION, CONSTRUCTION OF STORM SEWERS AND DRAINAGE STRUCTURES, RECONSTRUCTION AND WIDENING OF ROADWAYS AND BIKE TRAIL, AND RETAINING WALL.



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.

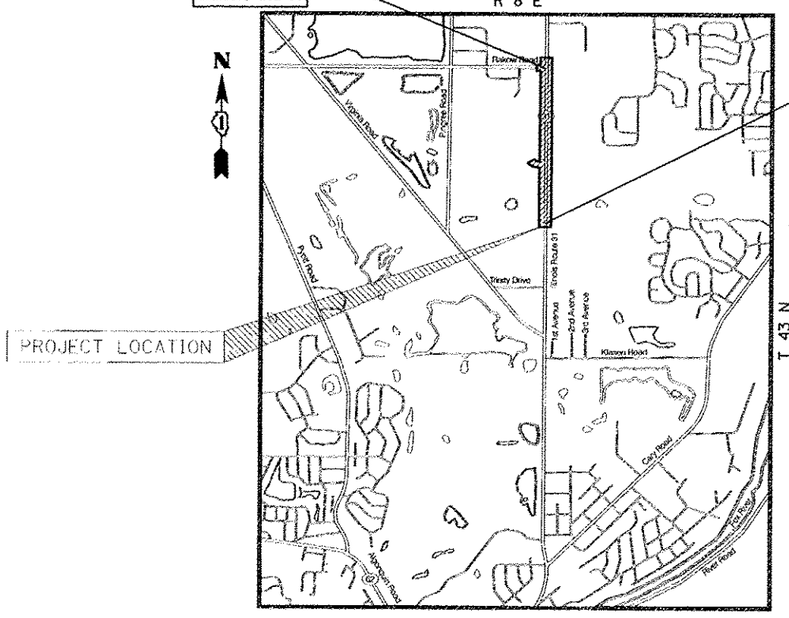
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

DISTRICT ONE – DESIGN
PROJECT MANAGER: ISAAC KWARTENG (847) 705–4230
PROJECT ENGINEER: ALIX BRICE (847) 705–4552

CONTRACT NO. 60V72

PROJECT ENDS
STA. 320+82.66
ILLINOIS RTE 31

LOCATION MAP
R 8 E



PROJECT LENGTH:
ILLINOIS RTE 31 – 4,659.52 FT. (0.88 MILES) (NET & GROSS)

D–91–062–13

LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 24, 20 13
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

Dec 6, 20 13
John D. Baranzelli, P.E. for
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6, 20 13
Omer Osman, P.E. for
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

REGISTERED P.E., STATE OF ILLINOIS — EXPIRES 11/30/2013

PLANS PREPARED BY:

CIVILTECH
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com

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INDEX OF SHEETS

GENERAL NOTES

1. ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2012 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISION", ADOPTED JANUARY 1, 2012.

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ("STANDARD SPECIFICATIONS"), ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2012; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); "THE STANDARD SPECIFICATONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 EDITION, THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS.

3. HORIZONTAL CONTROL IS HARN (HPGN) ILLINOIS STATE PLANES EAST ZONE, US FOOT. VERTICAL CONTROL IS NAVD 88.

4. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, MCHENRY COUNTY AT (815) 334-4960, THE VILLAGE OF LAKE IN THE HILLS AT (847) 960-7500, THE VILLAGE OF CARY AT (847) 639-0003, AND THE CITY OF CRYSTAL LAKE AT (815) 356-3614 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND GOVERNMENT AGENCIES.

6. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN CONSENT FROM THE DEPARTMENT.

7. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREA.

8. THE CONTRACTOR SHALL PROTECT AND RELOCATE EXISTING MAILBOXES WHICH INTERFERE WITH THE WORK IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POST OFFICE AT (847) 658-0012 TO COORDINATE MAILBOX RELOCATION.

9. NO ADDITIONAL COMPENSATION WILL BE MADE FOR REMOVAL OF STUMPS OR TREE ROOTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.

10. ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

12. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

13. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET AND APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM THE MCHENRY COUNTY DIVISION OF TRANSPORTATION, THE VILLAGE OF CRYSTAL LAKE, THE VILLAGE OF CARY, AND THE VILLAGE OF LAKE IN THE HILLS.

PAVING, SHOULDERS AND CURB & GUTTER

1. THE CONTRACTOR SHALL SAW CUT PAVEMENT, CURB & GUTTER AND SHOULDER AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

   THE CONTRACTOR SHALL BE REQUIRED TO SAW VERTICAL CUTS SO AS TO FORM CLEAN VERTICAL JOINTS. SHOULD THE CONTRACTOR DEFACE ANY EDGE, A NEW SAWED JOINT SHALL BE PROVIDED AND ANY ADDITONAL WORK, INCLUDING REMOVAL AND REPLACEMENT, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

   IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE THICKNESS OF THE EXISTING PAVEMENT AND WHETHER OR NOT IT CONTAINS REINFORCEMENT.

2. HOT-MIX ASPHALT BASE COURSE AND BINDER COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN PROPERLY BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

3. PRIOR TO PLACING HOT-MIX ASPHALT ADJACENT TO EXISTING PAVEMENT TO REMAIN, THE EXPOSED EDGE SHALL BE CLEANED OF LOOSE MATERIAL TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE HMA BEING PLACED.

4. THE THICKNESS OF HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT IS PLACED.

5. REMOVAL OF EXISTING COMBINATION CURB AND GUTTER SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL" REGARDLESS OF THE CURB AND GUTTER TYPE.

6. REMOVAL OF EXISTING AGGREGATE SHOULDERS SHALL BE PAID FOR AS PART OF "EARTH EXCAVATION".

7. PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH SECTION 420 OF THE STANDARD SPECIFICATIONS TO CONCRETE MEDIAN SURFACES, ALL EXPOSED SURFACES OF CURBS AND GUTTERS, PCC DRIVEWAYS, PCC PAVEMENT, AND PCC SIDEWALK. ANY PART OF THIS ITEM CAN BE DELETED OR ANOTHER ADDED AT THE DISCRETION OF THE ENGINEER.

8. HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

9. PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE INDICATED.

MISCELLANEOUS

1. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION. THE CONTRACTOR SHALL RESET ALL SURVEY MARKERS, CONTROL POINTS AND TIES DISTURBED DURING CONSTRUCTION. THIS WORK SHALL BE PAID FOR AS "PERMANENT SURVEY MARKERS, TYPE II".

2. SITE OBJECTS: REMOVAL OF MISCELLANEOUS PARKWAY IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BLOCK RETAINING WALL, CONCRETE FOOTINGS, LANDSCAPE TIMBERS, LANDSCAPE ROCKS, PLANTERS, VEGETATION, BRICK OR BRICK PAVER WALKWAYS WITHIN R.O.W. LIMITS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR "EARTH EXCAVATION" UNLESS QUANTIFIED SEPERATELY.

3. THE CONTRACTOR SHALL NOT CROSS COMPLETED BINDER COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT. ANY DAMAGED PAVEMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE

4. ALL EXCESS MATERIAL (BROKEN CONCRETE, SEWER PIPE, WASTE ROADWAY EXCAVATION AND SURPLUS MATERIAL FROM SEWER TRENCHES) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN "EARTH EXCAVATION".

5. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND DEPOSITED AT LOCATIONS PROVIDED BY HIM, OR DISPOSED OF WITHIN THE RIGHT-OF-WAY IN A MANNER OTHER THAN BURNING, SUBJECT TO THE APPROVAL OF THE ENGINEER. NO EXTRA COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ANY EXPENSE INCURRED BY COMPLYING WITH THE REQUIREMENTS OF THIS NOTE.

6. ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO THE PLACEMENT OF GRANULAR SUB-BASE OR EMBANKMENT.

7. AGGREGATE SUBGRADE IMPROVEMENT AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAVE BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSUITABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL".

FILE NAME = ...\2278NG_GEN_NOTE_01.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -			3887	18W&RS-5 (12)	McHENRY	151	2
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 60V72		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: NONE / SHEET NO. 1 OF 3 SHEETS / STA. / TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

UTILITIES

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTON OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS OF HIS CONSTRUCTION SCHEDULE AND SHALL COORDINATE CONSTRUCTION OPERATIONS WITH THE UTILITY OWNERS SO THAT RELOCATION OF UTILITY LINES AND STRUCTURES MAY PROCEED IN AN ORDERLY MANNER. NOTIFICATION SHALL BE IN WRITING, WITH COPIES TRANSMITTED TO THE ENGINEER.

3. ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

4. WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE "STANDARD SPECIFICATIONS" USING METHOD ONE.

5. COORDINATION OF ANY UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

6. WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.

7. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATON OR ADJUSTMENT.

DRAINAGE

1. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

2. THE COST OF MAKING SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE BEING CONSTRUCTED.

3. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING DRAINAGE FACILITIES SHALL REMAIN IN USE DURING THE PERIOD OF CONSTRUCTION. LOCATIONS OF EXISTING DRAINAGE STRUCTURES AND SEWERS AS SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO COMMENCING WORK, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL DETERMINE THE EXACT LOCATIONS OF EXISTING STRUCTURES WHICH ARE WITHIN THE PROPOSED CONSTRUCTION LIMITS.

4. DURING CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWER, UNDERDRAINS OR FIELD DRAINS WITHIN THE RIGHT-OF-WAY OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL SO INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF THE NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE. SHOULD THE ENGINEER HAVE DIRECTED THE REPLACEMENT OF A FACILITY, THE NECESSARY WORK AND PAYMENT SHALL BE IN ACCORDANCE WITH SECTIONS 550 AND 601, AND ARTICLE 104.02 OF THE STANDARD SPECIFICATIONS.

5. THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON MANHOLES OR CATCH BASINS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE USE OF FLAT SLAB TOPS.

6. TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS A PART OF THE STRUCTURE COST.

7. ALL SEWER AND WATER SERVICES CROSSED BY NEW STORM SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO SAID SERVICES NOT CONSIDERED TO BE IN CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

8. ANY TEMPORARY DAMMING OR PUMPING REQUIRED FOR THE EXCAVATIONS FOR THE STORM SEWER OR CULVERT CONNECTIONS SHALL BE INCLUDED IN THE COST OF THE STORM SEWER OR CULVERT BEING CONSTRUCTED.

9. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLAN, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWER ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

10. DRAINAGE STRUCTURE FLAT-TOPS AND CONES SHALL BE TURNED SO THAT THE FRAMES ARE CLOSEST TO THE CENTERLINE OF THE ROAD. ALL FLAT-TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.

11. DITCHES SHOWN ON THE PLANS (DRAINAGE & UTILITY SHEETS AND CROSS SECTIONS) SHALL BE CONSTRUCTED AS "TYPICAL" DITCHES. DITCHES SHOWN AS "SPECIAL DITCHES" ARE DESIGNATED AS SUCH ON THE CROSS SECTIONS (S.D.) AND HAVE A SPECIAL DITCH PROFILE SHOWN ON THE DRAINAGE & UTILITY SHEET PROFILES.

12. WHERE NOTED, THE CONTRACTOR HAS THE OPTION TO INSTALL PIPE CULVERTS BY JACKING IN PLACE IN LIEU OF OPEN CUT TRECHING. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED BUT WILL BE INCLUDED IN THE COST OF THE TYPE AND SIZE OF PIPE BEING INSTALLED.

13. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING DRAINAGE FACILITIES SHALL REMAIN IN USE DURING THE PERIOD OF CONSTRUCTION. LOCATIONS OF EXISTING DRAINAGE STRUCTURES AND SEWERS AS SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO COMMENCING WORK THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL DETERMINE THE EXACT LOCATIONS OF EXISTING STRUCTURES WHICH ARE WITHIN THE PROPOSED CONSTRUCTION LIMIT.

14. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE KEPT FREE OF ANY DEBRIS RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS. ALL WORK AND MATERIAL NECESSARY TO PREVENT ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES WILL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT. ANY DEBRIS IN THE DRAINAGE STRUCTURES RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

15. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS WHEN WORKING NEAR OR ABOVE EXISTING SEWERS IN ORDER TO PROTECT THESE PIPES DURING CONSTRUCTION FROM ANY DAMAGE RESULTING FROM HIS OPERATIONS. ALL WORK AND MATERIAL NECESSARY TO REPLACE EXISTING SEWERS DAMAGED BECAUSE OF NONCOMPLIANCE WITH THIS PROVISION SHALL BE AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTION 550 OF THE "STANDARD SPECIFICATIONS" AND AT THE CONTRACTOR'S OWN EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SIGNING, STRIPING & LANDSCAPING

1. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER.

2. THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3. ANY SIGN WHICH IS DAMAGED DURING THE TIME IT IS STORED SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE PRIOR TO PERMANENT REINSTALLATION.

4. ALL UNUSED SIGNS AND POSTS SHALL BE RETURNED TO THE OWNER OF SIGN THAT WAS REMOVED.

5. THE COST OF STORING AND SAFEGUARDING THE PERMANENT SIGNS AND POSTS, AND REINSTALLING THE PERMANENT SIGNS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "RELOCATE SIGN PANEL ASSEMBLY" OF THE TYPE SPECIFIED. NEW SIGN SUPPORTS SHALL BE USED FOR REINSTALLED SIGNS UNLESS OTHERWISE NOTED. FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE TEMPORARY SIGNS SHALL BE INCLUDED IN THE COST OF THE VARIOUS TRAFFIC CONTROL AND PROTECTION ITEMS. THE NEW SUPPORTS SHALL BE PAID FOR AS "TELESCOPING STEEL SIGN SUPPORT".

6. ALL SIGNS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL CONFORM WITH IMUTCD, INCLUDE DIAMOND GRADE DG3 REFLECTIVE SHEETING AND BE INSTALLED ON 2" GS TELESCOPING POSTS WITH GS WINGED SOIL ANCHORS.

7. PAVEMENT MARKINGS REMOVED OUTSIDE THE LIMITS OF THE IMPROVEMENT DUE TO TRAFFIC CONTROL AND SHIFTING TRAFFIC SHALL BE REPLACED AT THE END OF CONSTRUCTION. THIS WORK SHALL BE PAID FOR PER LINEAR FOOT OF THE LINE TYPE INSTALLED.

8. THE RESIDENT ENGINEER MUST CONTACT DEBBIE HANLON, IDOT DISTRICT ONE AREA TRAFFIC FIELD TECHNICIAN AT (847)-438-2300 TWO WEEKS PRIOR TO INSTALLING PERMANENT PAVEMENT MARKINGS.

FILE NAME = ...\2278NG_GEN_NOTE_02.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: NONE | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	3
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL

1. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.

2. THE MAINTENANCE AND REPAIR OR REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE ENGINEER, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.

3. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. MUD AND SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY BY SHOVELING AND/OR SWEEPING.

4. ALL DISTURBED AREAS SHALL BE TEMPORARY SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLANS AND/OR THE EROSION AND SEDIMENT CONTROL PLANS WITHIN SEVEN (7) DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. PERMANENT STABILIZATION SHALL BE INSTALLED PRIOR TO SWITCHING TRAFFIC FOR SUBSEQUENT STAGES.

5. WHEN INSTALLING PERMANENT STABILIZATION, ALL SLOPES 3:1 OR STEEPER SHALL BE SEEDED IMMEDIATELY AND COVERED WITH EROSION CONTROL BLANKET. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION AND WHERE NO FURTHER WORK IS TO OCCUR FOR ONE (1) WEEK OR MORE SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING AND COVERED WITH MULCH
METHOD 2 WITHIN SEVEN (7) CALENDAR DAYS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. INLET FILTERS SHALL BE PLACED ON ALL CATCH BASINS, INLETS, AND MANHOLES WITH OPEN GRATES.

7. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.

9. SEE STANDARD 280001-05 FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL DETAILS AND REQUIREMENTS.

10. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL DEPICTED IN THESE PLANS AND THE APPLICABLE IDOT DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.

2. THE EXACT, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

3. ALL SIGNS SHALL BE MOUNTED ON METAL POSTS, 7 FEET ABOVE THE EXISTING GROUND AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A J.U.L.I.E. LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS.

4. THE CONTRACTOR SHALL MAINTAIN 11-FOOT (MIN) DRIVING LANES ON ALL ROADS UNLESS DIRECTED BY THE ENGINEER OR OTHERWISE SHOWN ON THE PLANS.

5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS DURING CONSTRUCTION OPERATIONS. A QUANTITY OF THE TYPE INDICATED FOR "TEMPORARY ACCESS" HAS BEEN INCLUDED IN THE CONTRACT FOR THIS PURPOSE.

6. BARRICADES WILL BE REQUIRED ADJACENT TO PAVEMENT EDGES WHERE WIDENING, CURB AND GUTTER OR OVERLAYING WORK IS BEING DONE, AS SPECIFIED IN SECTION 701 OF THE STANDARD SPECIFICATIONS. SPACING SHALL BE AS SHOWN ON THE STANDARDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOPS OF THE BARRICADES ARE IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901-01.

7. BARRICADES EQUIPPED WITH ONE-WAY FLASHING LIGHTS WILL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, AND AT ANY OTHER LOCATIONS DESIGNATED BY THE ENGINEER OR LAW ENFORCEMENT AGENCIES. BARRICADES SHALL BE PLACED AT 50' CENTERS ALONG TANGENTS, 20' ALONG TAPERS AND 10' AROUND RADII.

8. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-02 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.

9. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL" PER SQUARE FOOT.

10. PERMANENT DRAINAGE STRUCTURES INSTALLED OUTSIDE THE WORK ZONE THAT HAVE FINAL RIM ELEVATIONS THAT WILL CONFLICT WITH TRAFFIC SHALL BE CONSTRUCTED WITH A FLAT SLAB TOP WITH A STEEL PLATE COVERING THE TOP OPENING, UNLESS OTHERWISE INDICATED. DURING PERMANENT PAVEMENT CONSTRUCTION, THE FLAT SLAB TOP AND STEEL PLATE SHALL BE REMOVED AND THE STRUCTURE CONSTRUCTED TO FINAL GRADE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TYPE OF STRUCTURE INSTALLED.

11. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED, RELOCATED, AND REMOVED AS DIRECTED BY THE ENGINEER. THE MESSAGES SHOWN SHALL BE AS DIRECTED BY THE ENGINEER. THIS
WORK SHALL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN" PER CALENDAR MONTH.

12. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY STAGE CHANGE AT LEAST TWO WEEKS IN ADVANCE OF THE CHANGE.

13. EXISTING TRAFFIC CONTROL DEVICES ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE CAUSED BY HIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

14. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.

15. TEMPORARY LANE CLOSURES WILL BE ALLOWED ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CLOSING ANY LANES.

16. THE WORKERS SIGN, W21-1A SYMBOLIC, IF USED, SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. SIGNS MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.

17. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

COMMITMENTS

1. ALL APPLICABLE PERMITS WILL BE OBTAINED DURING THE DESIGN PHASE OF THIS PROJECT.

2. EROSION AND SEDIMENT CONTROL PLANS WILL BE DEVELOPED AND IMPLEMENTED IN ACCORDANCE WITH IDOT'S STANDARD SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. SPECIFIC EROSION CONTROL PRACTICES WOULD BE DEVELOPED DURING THE DESIGN PHASE OF THE PROJECT.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	24' (7.2 m) JOINTED PCC PAVEMENT
420106-04	36' (10.8 m) JOINTED PCC PAVEMENT
420111-03	PCC PAVEMENT ROUNDOUTS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTION FOR PIPE CULVERTS
601001-04	SUB-SURFACE DRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602306-03	INLET, TYPE B
602401-03	MANHOLE TYPE A
602411-04	MANHOLE TYPE A 7' (2.1 m) DIAMETER
602701-02	MANHOLE STEPS
604001-03	FRAMES AND LIDS TYPE 1
604036-02	GRATE TYPE 8
604091-02	FRAME AND GRATE, TYPE 24
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY
~~701301-04~~	~~LANE CLOSURE, 2L, 2W, SHORT-TIME OPERATIONS~~
~~701326-04~~	~~LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH~~
~~701501-06~~	~~URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED~~
~~701601-07~~	~~URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN~~
~~701606-03~~	~~URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN~~
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES

701422-06

LIST OF ILLINOIS DOT HIGHWAY DISTRICT ONE STANDARDS

BD-01	DRIVEWAY DETAILS
BD-02	DRIVEWAY DETAILS
BD-05	CONCRETE MEDIAN
BD-12	MANHOLE WITH RESTRICTOR PLATE
BD-51	BENCHING DETAIL
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TRAFFIC APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC CONTROL
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING

FILE NAME = ...\2278NG_GEN_NOTE_03.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: NONE | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	4
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

				80% FED. 20% STATE	100% STATE	100% COUNTY	80% FED. / 20% STATE			100% STATE	100% PRIVATE
CODED PAY ITEM NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0003	0021		0031	0042	0040	0021	
				ROADWAY	SAFETY		LANDSCAPING	TRAINEES	RETAINING WALL	TRAFFIC SIGNALS	
										INTERCONNECT	RAISED
				M230U	07A0U	07N0U	M230U	M230U	M230U	07A0U	07R0U
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1315	1315							
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	307	307							
20100500	TREE REMOVAL, ACRES	ACRE	0.7	0.7							
20101700	SUPPLEMENTAL WATERING	UNIT	3	3							
20200100	EARTH EXCAVATION	CU YD	11625	11625							
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	865	865							
20400800	FURNISHED EXCAVATION	CU YD	32425	32425							
20800150	TRENCH BACKFILL	CU YD	3605	3605							
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	6311	6311							
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	28606	28606							
21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	3918	3918							
25000210	SEEDING, CLASS 2A	ACRE	5.5	5.5							
25000310	SEEDING, CLASS 4	ACRE	0.25	0.25							
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	415	415							
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	415	415							
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	415	415							
25100630	EROSION CONTROL BLANKET	SQ YD	28008	28008							
25200110	SODDING, SALT TOLERANT	SQ YD	5700	5700							
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	580	580							
28000305	TEMPORARY DITCH CHECKS	FOOT	934	934							
28000400	PERIMETER EROSION BARRIER	FOOT	5578	5578							
28000510	INLET FILTERS	EACH	82	82							
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	6083	6083							
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	32334	32334							
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	5243	1518	2980	745					
40600300	AGGREGATE (PRIME COAT)	TON	7.5		6.0	1.5					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	380		304	76					
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	26474	26474							
42001300	PROTECTIVE COAT	SQ YD	32036	32036							

* REQUIRES SPECIAL PROVISION
Δ INDICATES SPECIALTY ITEM

Rev.

FILE NAME = ...\2278.S00.01.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
		DRAWN - DTE	REVISED -		
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	5
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

				BDT. FED. 20% STATE	100% STATE	100% COUNTY	80% FED. / 20% STATE			100% STATE	100% PRIVATE
CODED PAY ITEM NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0003	0021		0031	0042	0040	0021	
				ROADWAY	SAFETY		LANDSCAPING	TRAINEES	RETAINING WALL	TRAFFIC SIGNALS	
										INTERCONNECT	RAKOW
44000100	PAVEMENT REMOVAL	SQ YD	17259	17259							
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1157	1157							
44000300	CURB REMOVAL	FOOT	411	411							
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	268	268							
44000600	SIDEWALK REMOVAL	SQ FT	601	601							
44003100	MEDIAN REMOVAL	SQ FT	1809	1809							
44004250	PAVED SHOULDER REMOVAL	SQ YD	8373	8373							
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	46	46							
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	338	338							
50105220	PIPE CULVERT REMOVAL	FOOT	344	344							
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	337	337							
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	47	47							
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	145	145							
542A1909	PIPE CULVERTS, CLASS A, TYPE 3 24"	FOOT	194	194							
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2							
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	20	20							
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	6	6							
54213666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	2	2							
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	6	6							
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1415	1415							
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	634	634							
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	101	101							
550A0110	STORM SEWERS, CLASS A, TYPE 1 21"	FOOT	56	56							
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	289	289							
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	112	112							
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	321	321							
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	300	300							
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	201	201							

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FILE NAME = ...\2278.500.02.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	6
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

					80% FED. 20% STATE	100% STATE	100% COUNTY	80% FED./20% STATE			100% STATE	100% PRIVATE
CODED PAY ITEM NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0003	0021			0031	0042	0040	0021	
				ROADWAY	SAFETY			LANDSCAPING	TRAINEES	RETAINING WALL	TRAFFIC SIGNALS	
					STATE	LOCAL					INTERCONNECT	RAKOW
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1318	1318								
550A4300	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	457	457								
550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	274	274								
550B0330	STORM SEWERS, CLASS B, TYPE 2 10"	FOOT	36	36								
55100900	STORM SEWER REMOVAL 18"	FOOT	310	310								
55101100	STORM SEWER REMOVAL 21"	FOOT	154	154								
55101200	STORM SEWER REMOVAL 24"	FOOT	77	77								
60107600	PIPE UNDERDRAINS 4"	FOOT	948	948								
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	37	37								
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1								
60208240	CATCH BASIN, TYPE C, TYPE 24 FRAME AND GRATE	EACH	32	32								
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	13	13								
60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1								
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	15	15								
60222240	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1								
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2								
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	7	7								
60500050	REMOVING CATCH BASINS	EACH	2	2								
60600605	CONCRETE CURB, TYPE B	FOOT	210	210								
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	12736	12736								
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1251	1251								
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	10476	10476								
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1								
Δ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	7200	7200								
Δ 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1								
Δ 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5								
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12								
67100100	MOBILIZATION	L SUM	1	1								

* REQUIRES SPECIAL PROVISION
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	7
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

					80% FED, 20% STATE	100% STATE	100% COUNTY	80% FED, 20% STATE			100% STATE	100% PRIVATE
CODED PAY ITEM NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0003	0021		0031	0042	0040	0021	
				ROADWAY	SAFETY		LANDSCAPING	TRAINEES	RETAINING WALL	TRAFFIC SIGNALS	
					STATE	LOCAL				INTERCONNECT	RAKOW
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1							
~~70100500~~	~~TRAFFIC CONTROL AND PROTECTION, STANDARD 701326~~	~~L SUM~~	~~1~~	~~1~~	~~1~~						
~~70102620~~	~~TRAFFIC CONTROL AND PROTECTION, STANDARD 701501~~	~~L SUM~~	~~1~~	~~1~~	~~1~~						
~~70102625~~	~~TRAFFIC CONTROL AND PROTECTION, STANDARD 701606~~	~~L SUM~~	~~1~~	~~1~~	~~1~~						
~~70102630~~	~~TRAFFIC CONTROL AND PROTECTION, STANDARD 701601~~	~~L SUM~~	~~1~~	~~1~~	~~1~~						
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1							
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	20		20						
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	13714		13714						
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	10131		10131						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4604		4604						
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2							
	FULLY REDIRECTIVE										
70600260	IMPACT ATTENUATORS, TEMPORARY (~~SEVERE USE~~, NARROW), TEST LEVEL 3	EACH	1	1							
72000100	SIGN PANEL - TYPE 1	SQ FT	125		125						
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	15		15						
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	4			4					
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1			1					
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	418		418						
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	633		633						
Δ 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2507		2507						
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	4550		4550						
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	729		729						
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	39		39						
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	305		305						
78300100	PAVEMENT MARKING REMOVAL	SQ FT	5413		5413						
Δ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3434							3324	110
Δ 81400100	HANDHOLE	EACH	8							8	
Δ 81400200	HEAVY-DUTY HANDHOLE	EACH	1								1
Δ * 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2							1	1

* REQUIRES SPECIAL PROVISION
Δ INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	8
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

					80% FED./20% STATE	100% STATE	100% COUNTY	80% FED./20% STATE			100% STATE	100% PRIVATE
CODED PAY ITEM NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0003 ROADWAY	0021 SAFETY STATE	0021 SAFETY LOCAL	0031 LANDSCAPING	0042 TRAINEES	0040 RETAINING WALL	0021 TRAFFIC SIGNALS INTERCONNECT	0021 TRAFFIC SIGNALS RAKOW
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	7453							7453	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	139								139
87900200	DRILL EXISTING HANDHOLE	EACH	3							2	1
88600100	DETECTOR LOOP, TYPE 1	FOOT	52								52
~~88600500~~	~~DETECTOR LOOP REMOVAL~~	~~FOOT~~	~~39~~								~~39~~
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4077							4077	
89502380	REMOVE EXISTING HANDHOLE	EACH	7							6	1
A2000120	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6				6				
A2002376	TREE, BETULA NIGRA (RIVER BIRCH), 12' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	6				6				
A2006270	TREE, POPULUS TREMULOIDES (QUAKING ASPEN), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	6				6				
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1				1				
A2008416	TREE, TILIA TOMENTOSA STERLING (STERLING SILVER LINDEN), 2" CALIPER, BALLED AND BURLAPPED	EACH	2				2				
B0001720	TREE, AMELANCHIER X GRANDIFLORA (APPLE SERVICEBERRY), 12' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5				5				
B2001168	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	6				6				
B2003416	TREE, MALUS FLORIBUNDA (JAPANESE FLOWERING CRABAPPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	11				11				
B2006126	TREE, SYRINGA PEKINENSIS ZHING ZHIMING (BEIJING GOLD PEKING LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	9				9				
C2002948	SHRUB, FORSYTHIA X INTERMEDIA (BORDER FORSYTHIA), 4' HEIGHT, BALLED AND BURLAPPED	EACH	11				11				
C2011748	SHRUB, VIBURNUM DENTATUM (ARROWWOOD VIBURNUM), 4' HEIGHT, BALLED AND BURLAPPED	EACH	44				44				
C2C09624	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER), 2' HEIGHT, CONTAINER	EACH	90				90				
D2C00424	EVERGREEN, JUNIPERUS CHINENSIS PFITZER ANA (PFITZER JUNIPER), 2' WIDTH, CONTAINER	EACH	9				9				
* Z0004530	HOT MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	214	214							
* Z0004538	HOT MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	1035	1035							
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1							
* Z0019600	DUST CONTROL WATERING	UNIT	2880	2880							
* Z0022800	FENCE REMOVAL	FOOT	245	245							
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	75	75							
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	160						160		
* Z0062456	TEMPORARY PAVEMENT	SQ YD	1085	1085							

△

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

27

FILE NAME = ...\2278.500.05.dgn	USER NAME = etb	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - DTE	REVISED -	
	PLOT SCALE = 1.0000 '/ in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 8/14/2013	DATE - 06/24/2013	REVISED -	

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	9
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

						80% FED. 20% STATE	100% STATE	100% COUNTY	80% FED. / 20% STATE			100% STATE	100% PRIVATE
	CODED PAY ITEM NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0003	0021			0031	0042	0040	0021	
					ROADWAY	SAFETY			LANDSCAPING	TRAINEES	RETAINING WALL	TRAFFIC SIGNALS	
						STATE	LOCAL					INTERCONNECT	RAKOW
*	~~Z0013302~~	~~SEGMENTAL BLOCK RETAINING WALL~~	~~SQ FT~~	~~847~~							~~847~~		
		~~1. CONCRETE~~											
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1									1
*	X0320239	CONCRETE WALL REMOVAL	FOOT	302	302								
*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	12	12								
△ *	X0323360	WOODEN POLE REMOVAL	EACH	1	1								
	X0323443	PRECAST MODULAR RETAINING WALL	~~SQFT~~ SQFT	847							847		
*	X0325034	MANHOLES, TYPE A, 6' DIAMETER, WITH 2 TYPE 1 FRAME, OPEN LIDS, RESTRICTOR PLATE	EACH	8	8								
△ *	X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1								1	
*	X0326864	BRICK SIDEWALK REMOVAL	SQ FT	114	114								
*	X0327009	REMOVE SIGN (SPECIAL)	EACH	3	3								
△ *	X0327032	TEMPORARY VIDEO DETECTION	EACH	1									1
*	X0327037	SPECIAL GRATE NO. 1	EACH	1	1								
*	X0327301	RELOCATE EXISTING MAILBOX	EACH	9	9								
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	200	200								
*	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2								
*	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	11	11								
*	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	34	34								
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1								
*	X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS	SQ FT	255		255							
*	X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	33929		33929							
*	X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	1358		1358							
*	X7030050	WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH	FOOT	1514		1514							
*	X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	109		109							
△ *	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	7476								7476	
*	XX006821	CONCRETE TRUCK WASHOUT	L SUM	1	1								
*	XZ127900	RETAINING WALL REMOVAL	FOOT	65	65								
△ *	~~X2000123~~	TREE, ACER TATARICUM JFS-KW2 (RUGGED CHARM TATARIAN MAPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	14					14				
Ø	Z0076600	TRAINEES	HOUR	1500						1500			
△ *	XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	4100								4100	
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1500						1500			

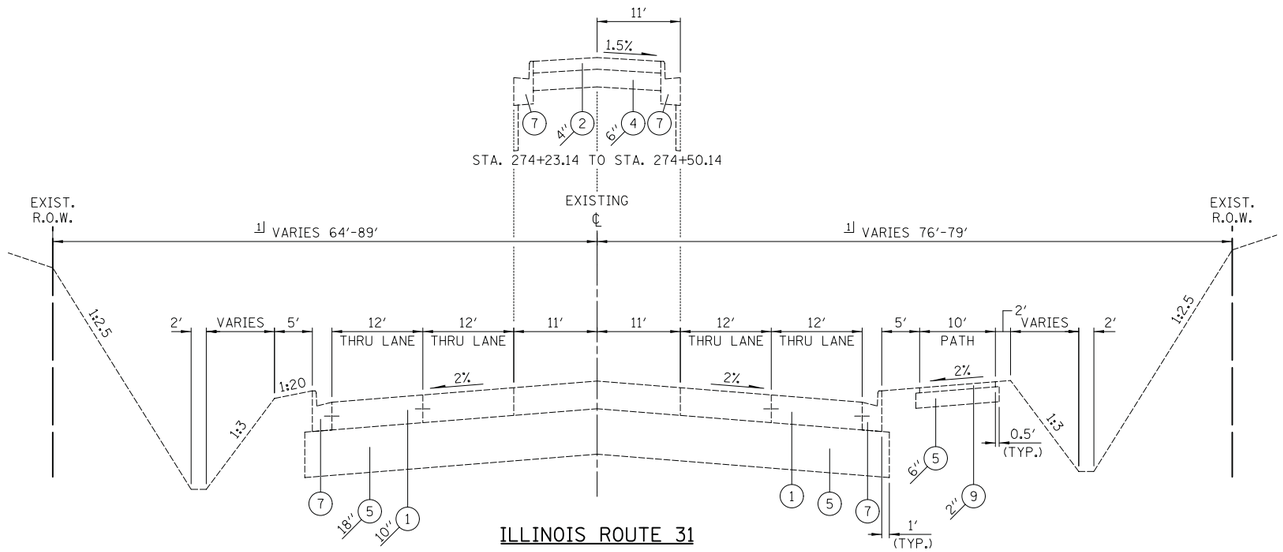
29

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM
Ø 0042

Rev.

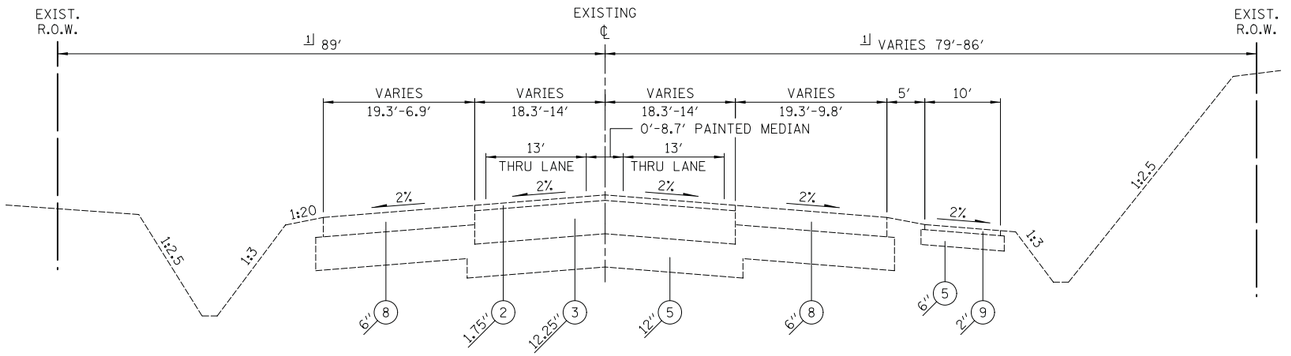
FILE NAME = ...\2278_500_06.dgn	USER NAME = otb	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
		DRAWN - DTE	REVISED -		
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: / SHEET NO. 6 OF 6 SHEETS / STA. / TO STA.
	PLOT DATE = 8/14/2013	DATE - 06/24/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	10
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



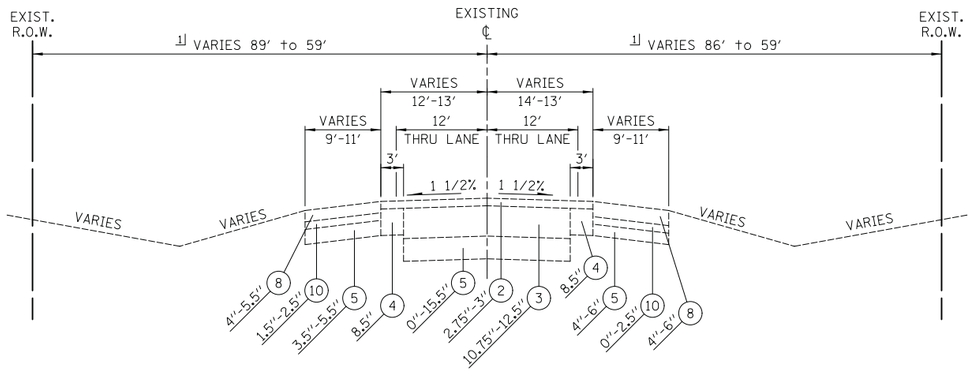
ILLINOIS ROUTE 31

STA. 274+23.14 TO STA. 277+50.00



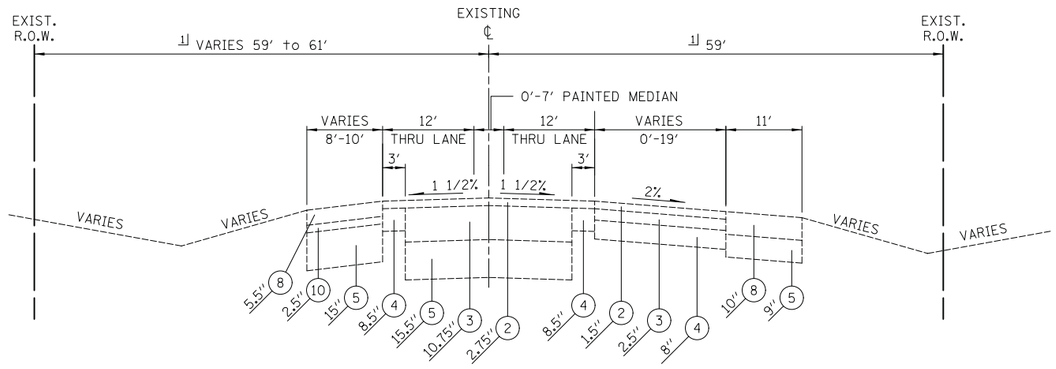
ILLINOIS ROUTE 31

STA. 277+50.00 TO STA. 279+44.88



ILLINOIS ROUTE 31

STA. 279+44.88 TO STA. 305+52.78



ILLINOIS ROUTE 31

STA. 305+52.78 TO STA. 308+18.00

LEGEND

1. EXISTING PCC PAVEMENT, 10″±
2. EXISTING HOT-MIX ASPHALT SURFACE COURSE
3. EXISTING HOT-MIX ASPHALT BINDER COURSE
4. EXISTING HOT-MIX ASPHALT BASE COURSE
5. EXISTING SUB-BASE GRANULAR MATERIAL
6. EXISTING CONCRETE MEDIAN
7. EXISTING CONCRETE CURB & GUTTER
8. EXISTING HOT-MIX ASPHALT SHOULDER
9. EXISTING HOT-MIX ASPHALT BIKE PATH
10. EXISTING RECYCLED ASPHALT PAVEMENT (RAP)

SHEET NOTES

1] SEE PLAT OF HIGHWAYS FOR RIGHT OF WAY DIMENSIONS.

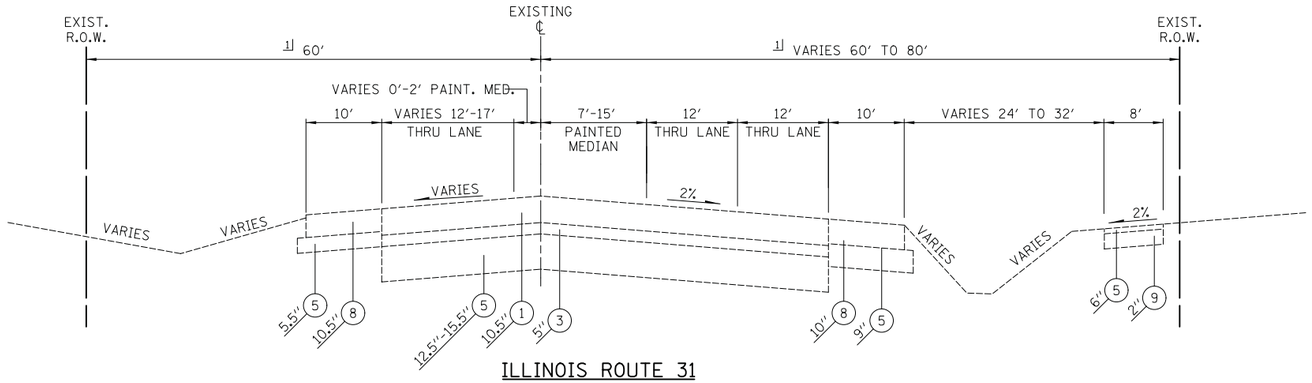
FILE NAME = ...\2278NG_EXTYP_01.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ′ / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS

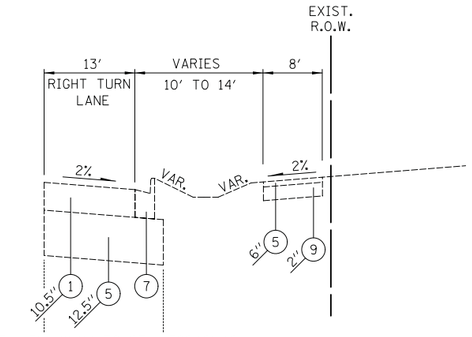
SCALE: NONE | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	11
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

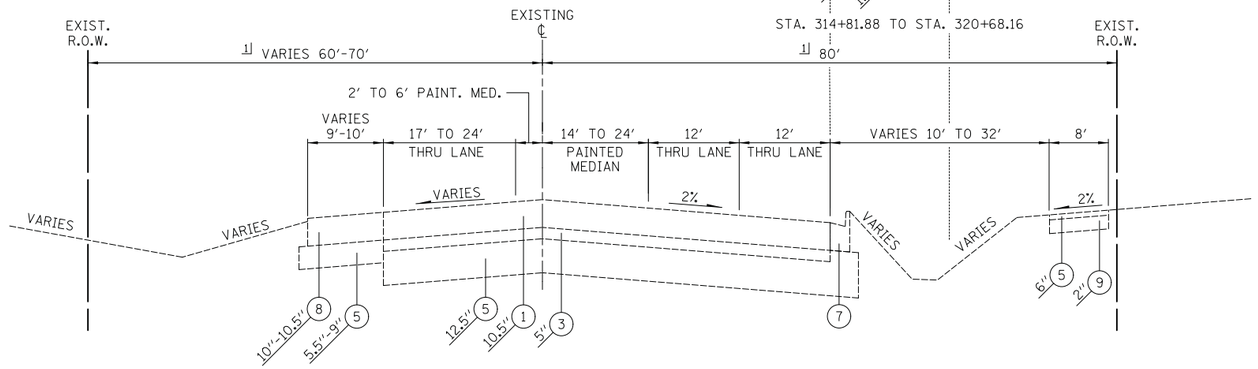


ILLINOIS ROUTE 31

STA. 308+18.00 TO STA. 310+82.33

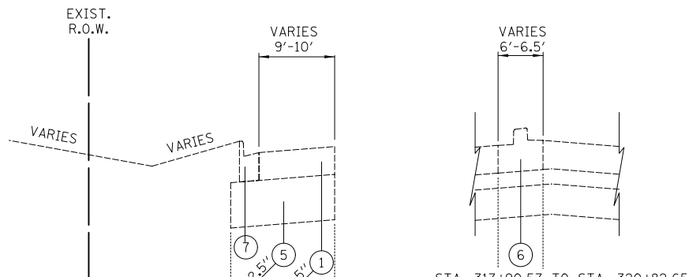


STA. 314+81.88 TO STA. 320+68.16



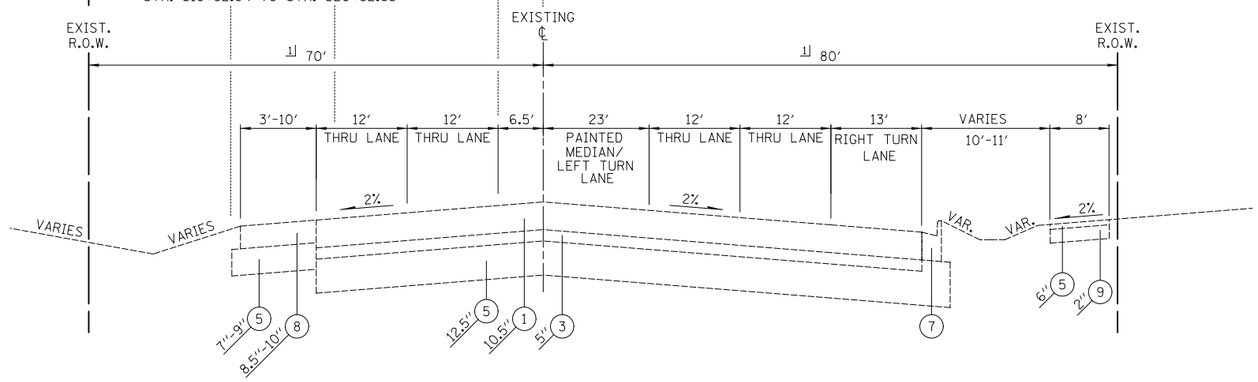
ILLINOIS ROUTE 31

STA. 310+82.33 TO STA. 314+81.88



STA. 319+82.04 TO STA. 320+82.65

STA. 317+90.57 TO STA. 320+82.65



ILLINOIS ROUTE 31

STA. 314+81.88 TO STA. 320+82.65

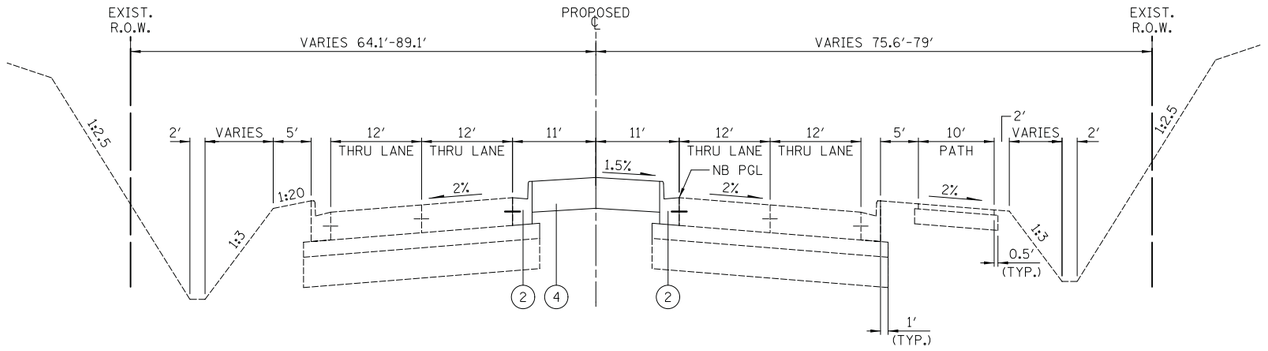
LEGEND

1. EXISTING PCC PAVEMENT, 10″±
2. EXISTING HOT-MIX ASPHALT SURFACE COURSE
3. EXISTING HOT-MIX ASPHALT BINDER COURSE
4. EXISTING HOT-MIX ASPHALT BASE COURSE
5. EXISTING SUB-BASE GRANULAR MATERIAL
6. EXISTING CONCRETE MEDIAN
7. EXISTING CONCRETE CURB & GUTTER
8. EXISTING HOT-MIX ASPHALT SHOULDER
9. EXISTING HOT-MIX ASPHALT BIKE PATH
10. EXISTING RECYCLED ASPHALT PAVEMENT (RAP)

SHEET NOTES

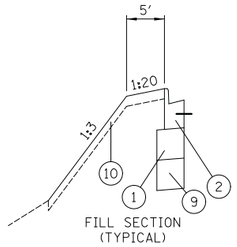
1] SEE PLAT OF HIGHWAYS FOR RIGHT OF WAY DIMENSIONS.

FILE NAME = ...\2278NG_EXTYP_02.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**EXISTING TYPICAL SECTIONS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -			3887	18W&RS-5 (12)	McHENRY	151	12
	PLOT SCALE = 1.0000 ′ / in.	CHECKED - GAB	REVISED -						CONTRACT NO. 60V72	
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: NONE / SHEET NO. 2 OF 4 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

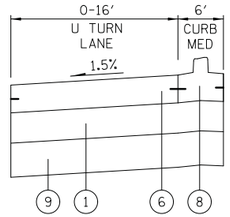


ILLINOIS ROUTE 31

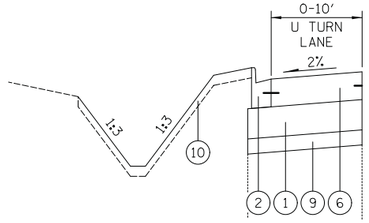
STA. 274+23.14 TO STA. 277+50.00



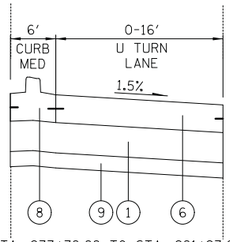
FILL SECTION
(TYPICAL)



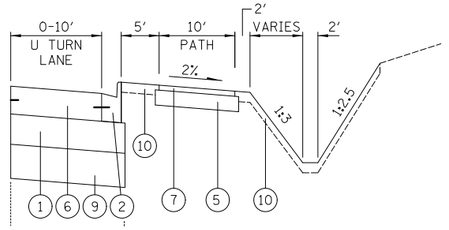
STA. 283+54.97 TO STA. 287+73.97
STA. 295+00.00 TO STA. 299+19.00



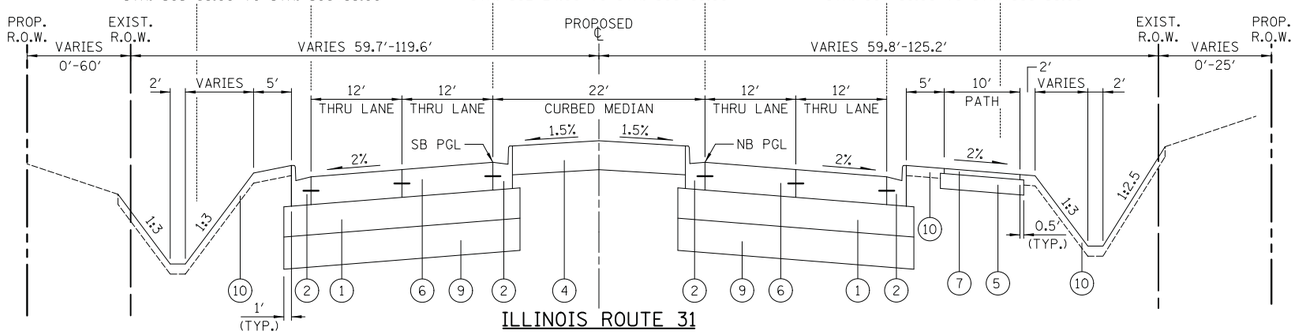
STA. 281+12.97 TO STA. 282+42.97
STA. 292+84.98 TO STA. 294+04.98
STA. 305+68.00 TO STA. 306+88.00



STA. 277+78.88 TO STA. 281+97.97
STA. 289+41.01 TO STA. 293+60.00
STA. 302+24.00 TO STA. 306+63.00



STA. 283+12.97 TO STA. 284+32.97
STA. 294+55.03 TO STA. 295+75.03
STA. 307+38.00 TO STA. 308+58.00



ILLINOIS ROUTE 31

STA. 277+50.00 TO STA. 277+78.88
STA. 287+73.97 TO STA. 289+41.01
STA. 299+19.00 TO STA. 302+24.00

PROPOSED LEGEND

1. AGGREGATE SUBGRADE IMPROVEMENT 12''
2. COMBINATION CONCRETE CURB AND GUTTER, B-6.24
3. CONCRETE MEDIAN SURFACE, 4''
4. TOPSOIL FURNISH AND PLACE, 24''
   SEEDING, FERTILIZER, AND EROSION MAT
5. SUB-BASE GRANULAR MATERIAL, TYPE B, 6''
6. PORTLAND CEMENT CONCRETE PAVEMENT, 10'' (JOINTED)
7. HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N50, 2''
8. CONCRETE MEDIAN, TYPE SB-6.12
9. AGGREGATE SUBGRADE IMPROVEMENT, VARIABLE DEPTH
   - SEE TABLE THIS SHEET
10. TOPSOIL FURNISH AND PLACE, 4''
    SEEDING, FERTILIZER, AND EROSION MAT

ILLINOIS ROUTE 31
AGGREGATE SUBGRADE IMPROVMENT
VARIABLE DEPTH

	STATION	DEPTH	DESCRIPTION
	BOP TO 285+50	6''	AGGREGATE SUBGRADE IMPROVEMENT
*	285+50 TO 288+50	12''	AGGREGATE SUBGRADE IMPROVEMENT
	288+50 TO 294+50	6''	AGGREGATE SUBGRADE IMPROVEMENT
*	294+50 TO 297+50	12''	AGGREGATE SUBGRADE IMPROVEMENT
	297+50 TO 315+50	6''	AGGREGATE SUBGRADE IMPROVEMENT
*	315+50 TO 318+20	12''	AGGREGATE SUBGRADE IMPROVEMENT
	318+20 TO EOP	6''	AGGREGATE SUBGRADE IMPROVEMENT

* STATIONS RANGES ARE RECOMMENDED AREAS OF ADDITIONAL AGGREGATE SUBGRADE IMPROVEMENT AND MAY BE ADJUSTED TO FIELD CONDITIONS. A MINIMUM DEPTH OF 6'' IS REQUIRED.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE USED IN ALL AREAS WITH AN AGGREGATE SUBGRADE IMPROVEMENT DEPTH OF 12 INCHES OR GREATER.

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR ILLINOIS ROUTE 31 - STA. 274+33 TO STA. 320+83

STRUCTURAL TRAFFIC: YEAR 2029

PV = 28,092 SU = 591 MU = 887

ROAD/STREET CLASSIFICATION: CLASS I

P = 32% S = 45% M = 45%

TRAFFIC FACTOR: ACTUAL TF = 9.53

MINIMUM TF = 9.04

AC GRADE: BINDER = SBS/SBR PG 58-22 SURFACE = SBS/SBR PG 58-28

SUBGRADE SUPPORT RATING:

SSR = POOR

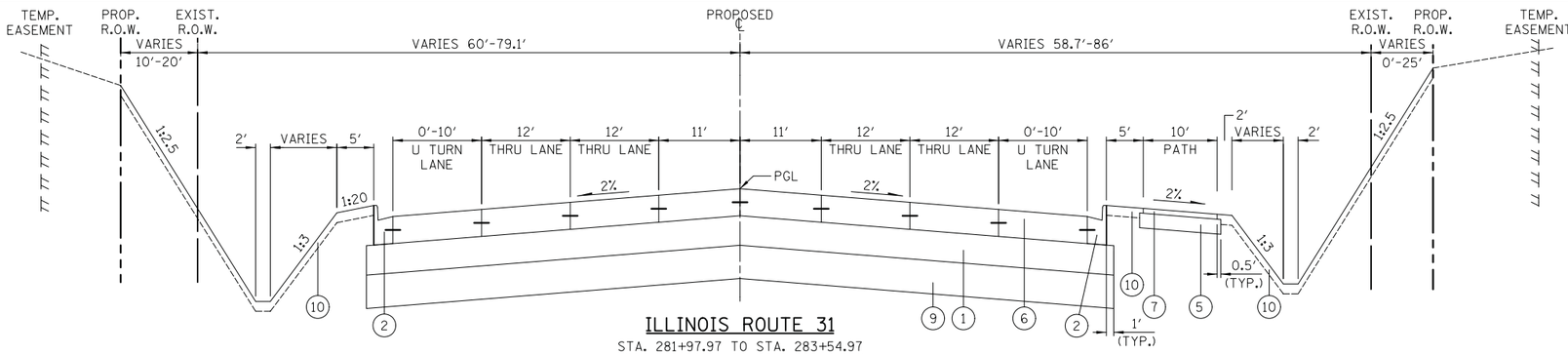
FILE NAME = ...\2278NG_PRTYP_01.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

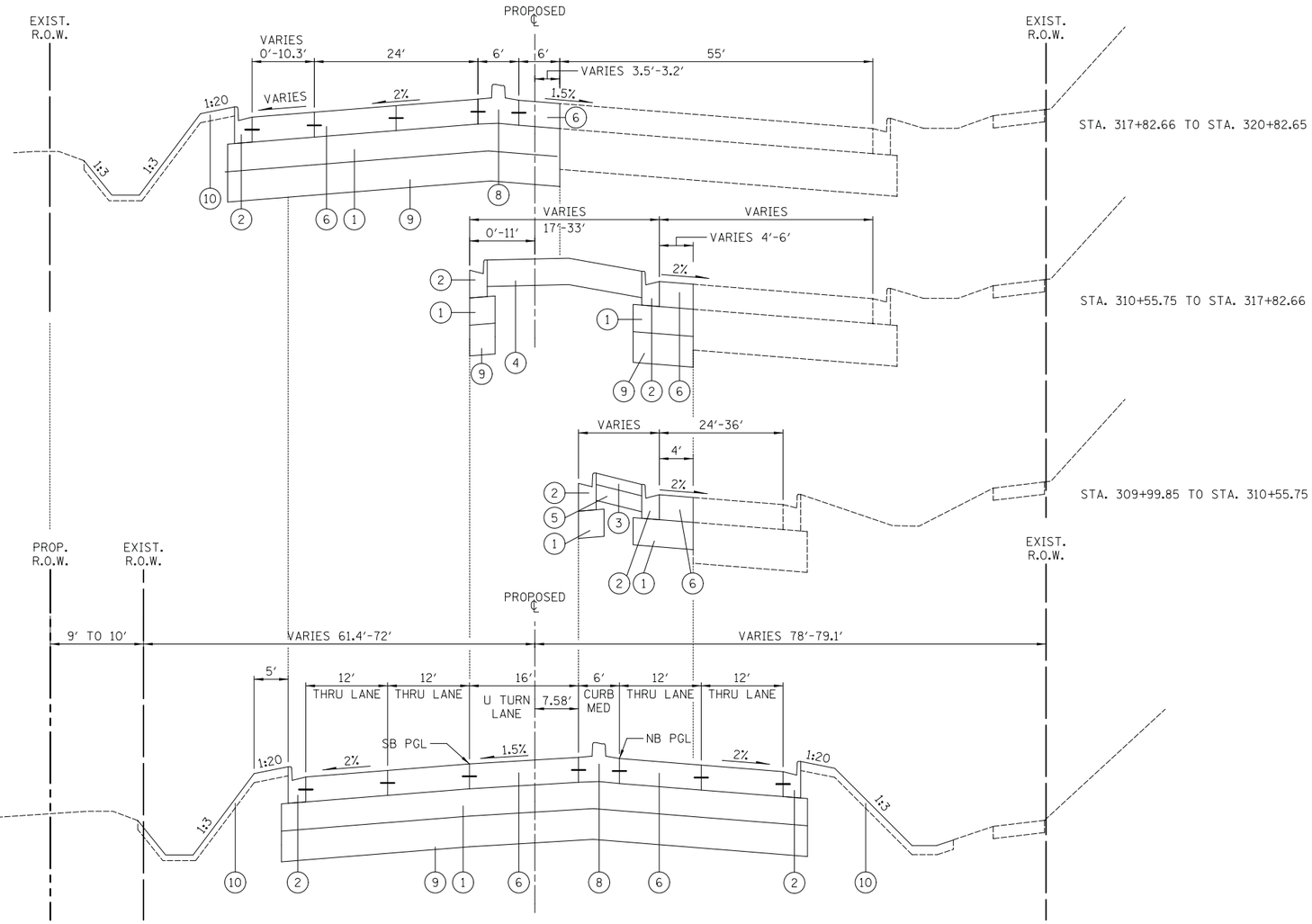
SCALE: NONE | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	13
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



ILLINOIS ROUTE 31

STA. 281+97.97 TO STA. 283+54.97
STA. 293+60.00 TO STA. 295+00.00
STA. 306+63.00 TO STA. 307+63.00



STA. 317+82.66 TO STA. 320+82.65

STA. 310+55.75 TO STA. 317+82.66

STA. 309+99.85 TO STA. 310+55.75

ILLINOIS ROUTE 31

STA. 307+63.00 TO STA. 320+82.65

PROPOSED LEGEND

1. AGGREGATE SUBGRADE IMPROVEMENT 12''
2. COMBINATION CONCRETE CURB AND GUTTER, B-6.24
3. CONCRETE MEDIAN SURFACE, 4''
4. TOPSOIL FURNISH AND PLACE, 24'' SEEDING, FERTILIZER, AND EROSION MAT
5. SUB-BASE GRANULAR MATERIAL, TYPE B, 6''
6. PORTLAND CEMENT CONCRETE PAVEMENT, 10'' (JOINTED)
7. HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N50, 2''
8. CONCRETE MEDIAN, TYPE SB-6.12
9. AGGREGATE SUBGRADE IMPROVEMENT, VARIABLE DEPTH -SEE TABLE ON SHEET 13
10. TOPSOIL FURNISH AND PLACE, 4'' SEEDING, FERTILIZER, AND EROSION MAT

MIXTURE REQUIREMENT

MIXTURE TYPE	AIR VOIDS @ Ndes
BIKE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N50 (IL-9.5 mm) (2'')	4% @ 50 GYR.
HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8'', 10''	
HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N50 (IL 9.5mm) (2'')	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19 mm) (PE-6'', CE-8'') (IN 2 LIFTS)	4% @ 50 GYR.
TEMPORARY PAVEMENT, 10''	
TEMP PAVEMENT (HMA BINDER IL-19mm) (10'') (IN 4 LIFTS)	4% @ 50 GYR.
CLASS D PATCHES, TYPE III AND IV, 10''	
CLASS D PATCH (HMA BINDER IL-19mm) (10'') (IN 4 LIFTS)	4% @ 70 GYR.

NOTES:

1. THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LB/SY-IN.
2. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
3. THE ''AC TYPE'' FOR NON-POLYMERIED HMA SHALL BE ''PG 64-22'' UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
4. IF USED, PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS. PAVEMENT THICKNESS SHALL BE 10''.
5. CONTRACTOR SHALL MILL BEFORE PATCHING.

FILE NAME = ...\2278NG_PRTYP_02.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - DTE	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE: NONE | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	14
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

STATION		HOT-MIX ASPHALT SURFACE CSE, MIX "D", N50	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUB-BASE GRANULAR MATERIAL TYPE B 6 INCH	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	AGGREGATE SUBGRADE IMPROVEMENT
		40603335	42000501	30300112	31101400	21001000	30300001
		(TON)	(SQYD)	(SQYD)	(SQYD)	(SQYD)	(CUYD)
IL ROUTE 31	274+23.14 TO 276+60	0	0	0	0	0	0
	276+60 TO 281+80	38	2860	3521	516	0	587
	281+80 TO 287+00	65	3874	4561	774	1221	1035
	287+00 TO 292+20	65	3100	3931	658	1061	832
	292+20 TO 297+40	65	4129	4648	818	2580	775
	297+40 TO 302+60	63	2910	3732	787	84	636
	302+60 TO 307+80	65	3762	4080	1017	0	680
	307+80 TO 313+00	19	2983	4112	332	0	685
	313+00 TO 318+20	0	1893	2528	120	1365	649
	318+20 TO 320+82.66	0	963	1221	173	0	204
	TOTALS	380	26474	32334	5195	6311	6083

STATION		SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE B	TELESCOPING STEEL SIGN SUPPORT	REMOVE SIGN (SPECIAL)
		72000100	72400100	72400500	72400600	72800100	X0327009
		(SQFT)	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)
IL ROUTE 31	274+23.14 TO 282+00	22.5	6	0	0	47.5	0
	282+00 TO 296+50	40.0	1	0	0	124.0	0
	296+50 TO 311+00	49.5	3	0	1	167.0	3
	311+00 TO 320+82.66	12.5	5	4	0	79.5	0
	TOTALS	124.5	15	4	1	418.0	3
	ADJUSTED QUANTITY	125	---	---	---	---	---

STATION		CONC. CURB, TYPE B	COMB. CONC. C&G,TYPE B-6.24	CONC. MEDIAN SURFACE, 4 INCH	CONC. MEDIAN TYPE SB-6.12	HMA DRIVEWAY PAVEMENT 8 INCH	HMA DRIVEWAY PAVEMENT 10 INCH
		60603500	60605000	60618300	60619600	Z0004530	Z0004538
		(FOOT)	(FOOT)	(SQFT)	(SQFT)	(SQYD)	(SQYD)
IL ROUTE 31	274+23.14 TO 276+60	0	474	0	0	0	0
	276+60 TO 281+80	0	1482	194	1283	110	0
	281+80 TO 287+00	0	1279	194	1491	0	104
	287+00 TO 292+20	0	1905	194	551	0	0
	292+20 TO 297+40	0	1070	38	2222	48	166
	297+40 TO 302+60	0	2080	157	0	56	94
	302+60 TO 307+80	210	1357	194	1604	0	303
	307+80 TO 313+00	0	1429	125	1412	0	119
	313+00 TO 318+20	0	1427	155	424	0	93
	318+20 TO 320+82.66	0	233	0	1489	0	156
	TOTALS	210	12736	1251	10476	214	1035

STATION		POLYUREA PAVT. MARKING TYPE I-LETTERS & SYMBOLS	POLYUREA PAVT. MARKING TYPE I-LINE 4"	POLYUREA PAVT. MARKING TYPE I-LINE 6"	POLYUREA PAVT. MARKING TYPE I-LINE 12"	POLYUREA PAVT. MARKING TYPE I-LINE 24"	RAISED REFELCTIVE PAVEMENT MARKING
		78008200	78008210	78008230	78008250	78008270	78100100
		(SQFT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)
IL ROUTE 31	274+23.14 TO 282+00	72.8	573	516	68.4	0	64
	282+00 TO 296+50	190.5	725	1338	182.4	0	92
	296+50 TO 311+00	149.0	725	1017	136.8	0	89
	311+00 TO 320+82.66	220.1	484	1679	341.8	39	60
	TOTALS	632.4	2507	4550	729.4	39	305
	ADJUSTED QUANTITY	633	---	---	729	---	---

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	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/6/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	15
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

STATION		TEMPORARY PAVEMENT	CLASS D PATCHES, TYPE III, 10 INCH	CLASS D PATCHES, TYPE IV, 10 INCH	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	TEMPORARY PAVEMENT MARKING - LINE 4"	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS & SYMBOLS	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 4"	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 6"	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 12"	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 24"	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET FILTERS
		Z0062456	44201769	44201771	70400100	70600250	70600260	70300220	X7030025	X7030030	X7030040	X7030050	X7030055	28000305	28000400	28000510
		(SQYD)	(SQYD)	(SQYD)	(FOOT)	(EACH)	(EACH)	(FOOT)	(SQFT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)
PRE-STAGE 1	274+23.14 TO 285+00	0	0	0	0	0	0	0	0	0	0	0	0	0	190	0
	285+00 TO 299+50	0	46	148	0	0	0	0	0	0	0	0	0	0	0	0
	299+50 TO 314+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	314+00 TO 320+82.66	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0
STAGE 1A & B	274+23.14 TO 285+00	0	0	0	795	0	1	3000	0	2505	0	0	0	84	0	8
	285+00 TO 299+50	0	0	0	1450	0	0	5800	0	0	0	0	0	252	1566	13
	299+50 TO 314+00	0	0	0	1240	0	0	4914	0	1463	0	0	0	72	973	17
	314+00 TO 320+82.66	0	0	0	0	0	0	0	0	437	0	0	0	0	0	0
STAGE 2A & B	274+23.14 TO 285+00	996	0	0	0	0	0	0	0	5054	0	922	0	72	249	17
	285+00 TO 299+50	0	0	0	0	0	0	0	0	4350	0	0	0	238	1096	17
	299+50 TO 314+00	89	0	0	429	1	0	0	0	5398	0	491	30	144	926	14
	314+00 TO 320+82.66	0	0	0	690	1	0	0	109	4109	458	101	12	72	578	6
STAGE 3A & B	274+23.14 TO 285+00	0	0	0	0	0	0	0	0	2693	0	0	0	0	0	0
	285+00 TO 299+50	0	0	0	0	0	0	0	0	2900	0	0	0	0	0	0
	299+50 TO 314+00	0	0	0	0	0	0	0	0	2900	58	0	0	0	0	0
	314+00 TO 320+82.66	0	0	0	0	0	0	0	37	2541	842	0	67	0	0	0
	TOTALS	1085	46	338	4604	2	1	13714	146	34350	1358	1514	109	934	5578	82

STATION		SEEDING, CLASS 2A	SEEDING, CLASS 4	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SODDING,SALT TOLERANT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
		25000210	25000310	25000400	25000500	25000600	25200110	25100630	28000250
		(ACRE)	(ACRE)	(POUND)	(POUND)	(POUND)	(SQYD)	(SQYD)	(POUND)
IL ROUTE 31	274+23.14 TO 285+00	1.27	0	98.87	98.87	98.87	1810	6608	138.00
	285+00 TO 299+50	2.22	0.21	155.06	155.06	155.06	1740	12261	255.00
	299+50 TO 313+00	1.54	0	125.47	125.47	125.47	1644	7096	147.00
	313+00 TO 320+82.66	0.46	0	33.64	33.64	33.64	505	2043	42.00
	TOTALS	5.49	0.21	413.04	413.04	413.04	5699	28008	579.00
	ADJUSTED QUANTITY	5.50	0.25	415	415	415	5700	---	580

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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	16
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

		EARTH EXCAVATION											
		STAGE 1A & B			STAGE 2A & B			STAGE 3A & B			TOTALS BY STATION		
STATION TO STATION		CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
IL ROUTE 31	274+23.14 TO 280+00	242.1	0.0	242.1	1100.2	0.0	1100.2	0.0	0.0	0.0	1342.3	0.0	1342.3
	280+00 TO 290+00	1116.3	86.3	1030.0	2166.3	115.4	2050.9	84.0	84.0	0.0	3366.6	285.7	3080.9
	290+00 TO 300+00	1749.2	171.4	1577.8	2694.9	115.0	2579.9	203.1	203.1	0.0	4647.2	489.5	4157.7
	300+00 TO 310+00	1063.1	0.0	1063.1	1521.0	0.0	1521.0	0.0	0.0	0.0	2584.1	0.0	2584.1
	310+00 TO 320+82.66	88.9	0.0	88.9	441.7	73.9	367.8	15.7	15.7	0.0	546.3	89.6	456.7
	TOTALS	4259.6	257.7	4001.9	7924.1	304.3	7619.8	302.8	302.8	0.0	12486.5	864.8	11621.7
	ADJUSTED QUANTITY											865	11625

IL ROUTE 31		4259.6	257.7	4001.9	7924.1	304.3	7619.8	302.8	302.8	0.0	12486.5	864.8	11621.7

		STAGE 1A & 1B		STAGE 2A & B		STAGE 3A & B		TOTALS BY STATION	
STATION TO STATION		EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
IL ROUTE 31	274+23.14 TO 280+00	500.4	655.4	378.7	-52.4	185.1	1049.9	1064.2	1652.8
	280+00 TO 290+00	5813.9	6948.1	5119.5	5256.4	1.6	3820.1	10935.0	16024.5
	290+00 TO 300+00	3017.8	3280.7	1189.5	363.6	26.0	2824.5	4233.3	6468.8
	300+00 TO 310+00	2126.1	2574.5	796.0	563.9	13.1	2425.8	2935.2	5564.2
	310+00 TO 320+82.66	131.6	145.3	839.6	1286.1	447.6	1282.6	1418.8	2714.0
TOTALS BY STAGE		11589.8	13604.0	8323.3	7417.5	673.4	11402.9	20586.5	32424.4
CUMULATIVE TOTALS		11589.8	13604.0	19913.1	21021.5	20586.5	32424.4		
ADJUSTED QUANTITY								20590	32425

FURNISHED EXCAVATION = EMBANKMENT - ((1 - SHRINKAGE FACTOR (0.15)) x (EARTH EXCAVATION - TOPSOIL EXCAVATION))

A POSITIVE QUANTITY IMPLIES THAT FURNISHED EXCAVATION WILL BE REQUIRED.

A NEGATIVE QUANTITY IMPLIES THAT THERE IS EXCESS EXCAVATED MATERIAL THAT CAN BE USED ELSEWHERE IN THE PROJECT LIMITS.

		TOPSOIL EXCAVATION			
STATION TO STATION		STAGE 1A & B	STAGE 2A & B	STAGE 3A & B	TOTALS BY STATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)
IL ROUTE 31	274+23.14 TO 280+00	424.4	593.0	---	1017.4
	280+00 TO 290+00	2364.4	2211.9	---	4576.3
	290+00 TO 300+00	1887.1	1608.3	---	3495.4
	300+00 TO 310+00	1590.6	1247.9	---	2838.5
	310+00 TO 320+82.66	105.0	893.1	---	998.1
	TOTALS	6371.5	6554.2	0.0	12925.7

		TOPSOIL PLACEMENT			
STATION TO STATION		STAGE 1A & B	STAGE 2A & B	STAGE 3A & B	TOTALS BY STATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)
IL ROUTE 31	274+23.14 TO 280+00	135.3	1952.7	567.5	2655.5
	280+00 TO 290+00	530.5	5106.1	396.1	6032.7
	290+00 TO 300+00	338.8	3296.9	284.3	3920.0
	300+00 TO 310+00	306.4	2654.3	621.4	3582.1
	310+00 TO 320+82.66	47.2	3350.4	742.6	4140.2
	TOTALS	1358.2	16360.4	2611.9	20330.5

FILE NAME = ...\04-Schedules\2278_SCH_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
		DRAWN - KWH	REVISED -		
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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		

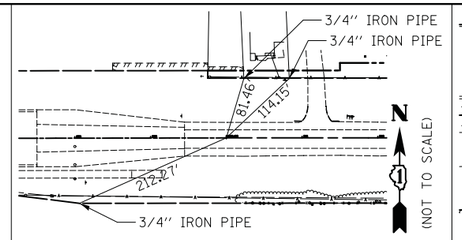
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	17
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ILLINOIS ROUTE 31
PROPOSED ℄ COORDINATE TABLE

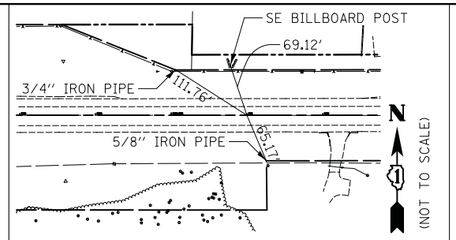
STATION	NORTHING	EASTING
248+97.36	2,012,446.378	996,942.167
275+94.90	2,015,143.907	996,933.672
280+00.00	2,015,549.005	996,932.396
325+50.00	2,020,099.001	996,926.426

BENCHMARKS

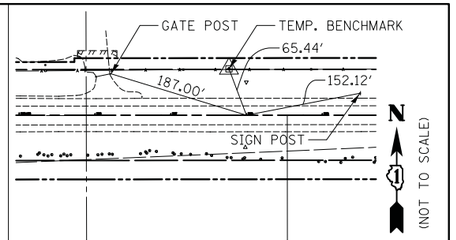
BM #	APPROXIMATE LOCATION	ELEVATION
1	RAILROAD SPIKE (SET) IN POWER POLE ON WEST SIDE OF ILLINOIS ROUTE 31 AS SHOWN HEREON.	877.26
2	RAILROAD SPIKE (SET) IN POWER POLE ON WEST SIDE OF ILLINOIS ROUTE 31 AS SHOWN HEREON.	883.95



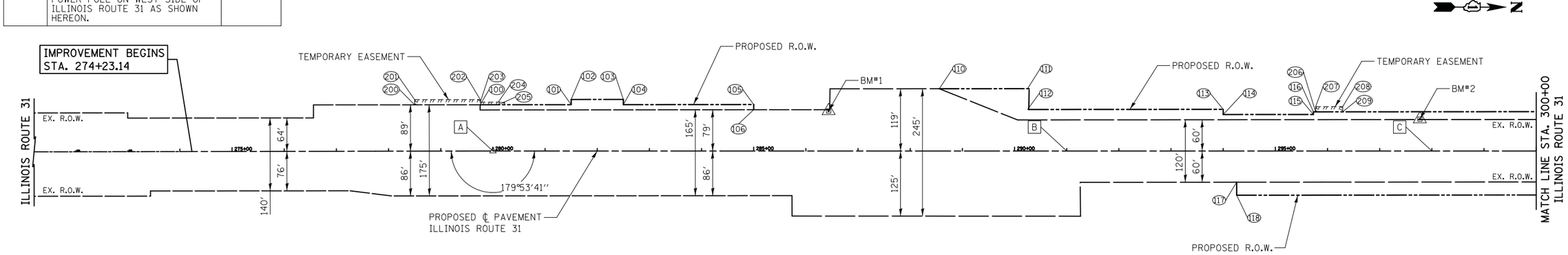
A
PROPOSED ℄ ILLINOIS ROUTE 31
STA. 280+00.00, 0.00' RT
N. 2,015,549.01 - E. 996,932.40



B
PROPOSED ℄ ILLINOIS ROUTE 31
STA. 291+00.00, 0.00' RT
N. 2,016,649.00 - E. 996,930.95



C
PROPOSED ℄ ILLINOIS ROUTE 31
STA. 298+00.00, 0.00' RT
N. 2,017,349.00 - E. 996,930.03



PROPOSED R.O.W. COORDINATE TABLE

POINT #	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
100	PROPOSED R.O.W.	279+75.76	88.84' LT	2,015,524.49	996,843.63
101	PROPOSED R.O.W.	281+50.00	88.95' LT	2,015,698.89	996,843.25
102	PROPOSED R.O.W.	281+50.00	98.95' LT	2,015,698.87	996,833.25
103	PROPOSED R.O.W.	282+50.00	99.03' LT	2,015,798.87	996,833.04
104	PROPOSED R.O.W.	282+50.00	89.03' LT	2,015,798.89	996,843.04
105	PROPOSED R.O.W.	285+00.00	89.25' LT	2,016,048.89	996,842.49
106	PROPOSED R.O.W.	285+00.00	79.25' LT	2,016,048.90	996,852.49
107	NOT USED	--	--	--	--
108	NOT USED	--	--	--	--
109	NOT USED	-	--	--	--
110	PROPOSED R.O.W.	288+55.69	119.56' LT	2,016,404.54	996,811.71
111	PROPOSED R.O.W.	290+28.00	119.71' LT	2,016,576.85	996,811.34
112	PROPOSED R.O.W.	290+27.29	79.71' LT	2,016,576.19	996,851.34
113	PROPOSED R.O.W.	294+00.00	80.03' LT	2,016,948.90	996,850.53
114	PROPOSED R.O.W.	294+00.00	70.03' LT	2,016,948.91	996,860.53
115	PROPOSED R.O.W.	295+72.94	70.18' LT	2,017,121.86	996,860.15
116	PROPOSED R.O.W.	295+72.94	75.18' LT	2,017,121.85	996,855.15
117	PROPOSED R.O.W.	294+25.75	59.95' RT	2,016,974.84	996,990.47
118	PROPOSED R.O.W.	294+25.83	84.95' RT	2,016,974.89	997,015.47

PROPOSED EASEMENTS COORDINATE TABLE

POINT #	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
200	TEMPORARY EASEMENT	278+50.00	88.96' LT	2,015,398.73	996,843.91
201	TEMPORARY EASEMENT	278+50.00	98.96' LT	2,015,398.69	996,833.91
202	TEMPORARY EASEMENT	279+75.96	98.84' LT	2,015,529.65	996,833.63
203	TEMPORARY EASEMENT	279+75.86	93.84' LT	2,015,524.57	996,838.63
204	TEMPORARY EASEMENT	280+22.50	93.84' LT	2,015,571.21	996,838.53
205	TEMPORARY EASEMENT	280+22.72	88.84' LT	2,015,571.45	996,843.53
206	TEMPORARY EASEMENT	295+77.04	75.18' LT	2,017,125.95	996,855.14
207	TEMPORARY EASEMENT	295+77.04	85.18' LT	2,017,125.93	996,845.14
208	TEMPORARY EASEMENT	296+29.04	85.23' LT	2,017,177.93	996,845.03
209	TEMPORARY EASEMENT	296+29.04	75.23' LT	2,017,177.95	996,855.03

LEGEND

EXISTING R.O.W.

PROPOSED R.O.W.

PROPOSED PERMANENT EASEMENT

PROPOSED TEMPORARY EASEMENT

TIE POINT

BENCHMARK

NOTE:

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917. SURFACE COORDINATES ARE SHOWN IN U.S. SURVEY FEET. ELEVATIONS ARE ON NAVD 88 DATUM.

100 0 100
SCALE IN FEET

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		DRAWN - AKW	REVISED -
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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

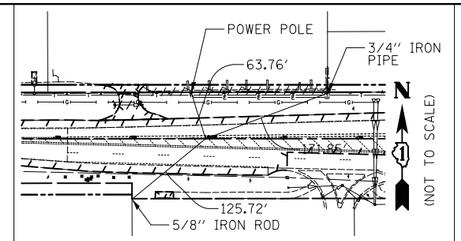
ALIGNMENT TIES & BENCHMARKS

SCALE: 1" = 100' | SHEET NO. 1 OF 2 SHEETS | STA. 274+23.14 TO STA. 300+00

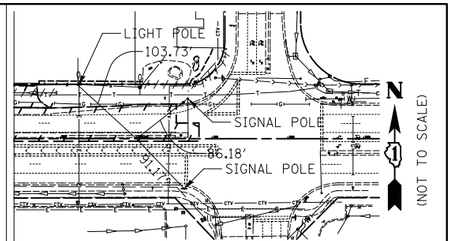
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	18
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

BENCHMARKS

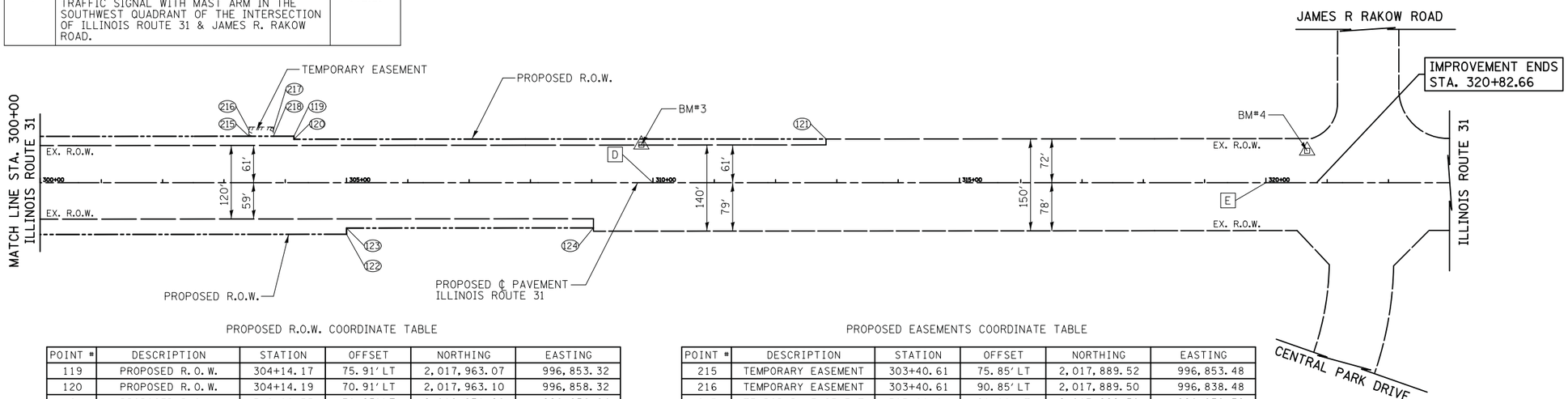
BM #	APPROXIMATE LOCATION	ELEVATION
3	RAILROAD SPIKE (SET) IN POWER POLE ON WEST SIDE OF ILLINOIS ROUTE 31 AS SHOWN HEREON.	887.92
4	BOX CUT (SET) IN CONCRETE BASE OF TRAFFIC SIGNAL WITH MAST ARM IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF ILLINOIS ROUTE 31 & JAMES R. RAKOW ROAD.	892.21



D
PROPOSED ℄ ILLINOIS ROUTE 31
STA. 310+00.00, 0.00' RT
N. 2,018,549.00 - E. 996,928.46



E
PROPOSED ℄ ILLINOIS ROUTE 31
STA. 320+00.00, 0.00' RT
N. 2,019,549.00 - E. 996,927.15



PROPOSED R.O.W. COORDINATE TABLE

POINT #	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
119	PROPOSED R.O.W.	304+14.17	75.91' LT	2,017,963.07	996,853.32
120	PROPOSED R.O.W.	304+14.19	70.91' LT	2,017,963.10	996,858.32
121	PROPOSED R.O.W.	312+82.35	71.25' LT	2,018,831.26	996,856.84
122	PROPOSED R.O.W.	305+00.00	84.02' RT	2,018,049.11	997,013.13
123	PROPOSED R.O.W.	305+00.00	74.02' RT	2,018,049.10	997,003.13
124	PROPOSED R.O.W.	309+02.84	73.67' RT	2,018,451.94	997,002.26

PROPOSED EASEMENTS COORDINATE TABLE

POINT #	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
215	TEMPORARY EASEMENT	303+40.61	75.85' LT	2,017,889.52	996,853.48
216	TEMPORARY EASEMENT	303+40.61	90.85' LT	2,017,889.50	996,838.48
217	TEMPORARY EASEMENT	303+80.61	90.88' LT	2,017,929.50	996,838.39
218	TEMPORARY EASEMENT	303+80.61	75.88' LT	2,017,929.52	996,838.39

LEGEND

EXISTING R.O.W. ——————

PROPOSED R.O.W. —— -- ——

PROPOSED PERMANENT EASEMENT ////////////////////

PROPOSED TEMPORARY EASEMENT ππππππππππ

TIE POINT ⊕

BENCHMARK △

NOTE:

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917. SURFACE COORDINATES ARE SHOWN IN U.S. SURVEY FEET. ELEVATIONS ARE ON NAVD 88 DATUM.

100 0 100
SCALE IN FEET

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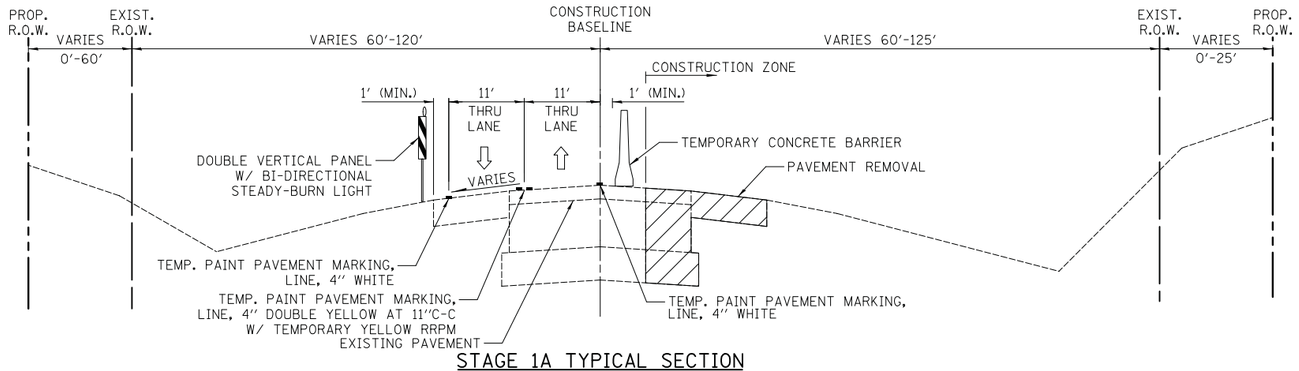
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS

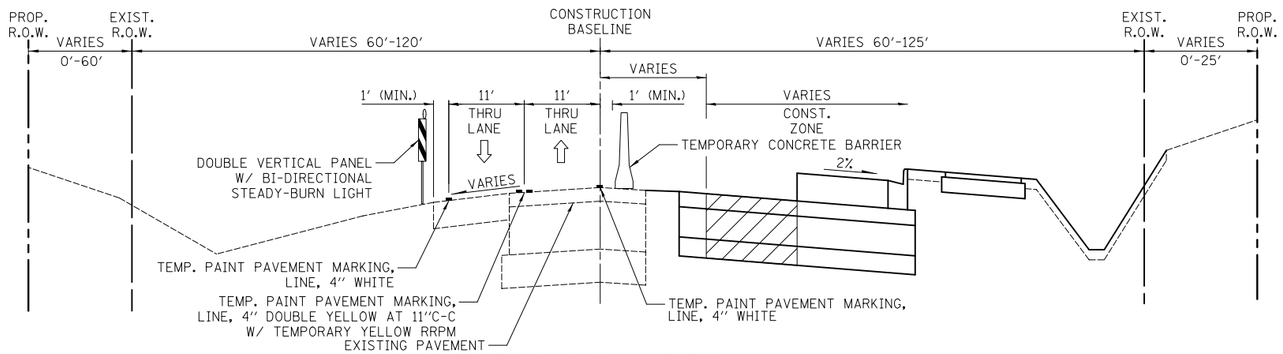
SCALE: 1" = 100' | SHEET NO. 2 OF 2 SHEETS | STA. 300+00 TO STA. 320+82.66

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	19
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



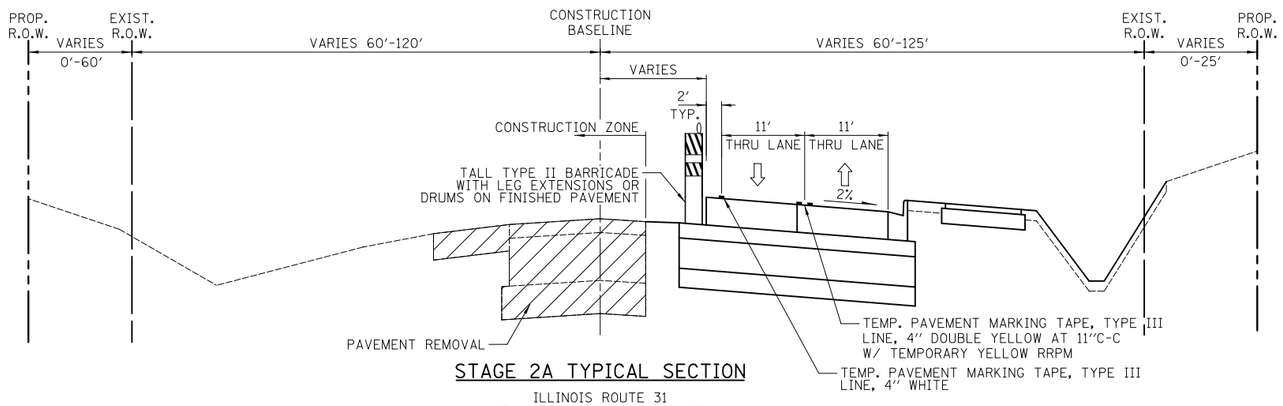
STAGE 1A TYPICAL SECTION

ILLINOIS ROUTE 31
STA. 277+50 TO STA. 311+08



STAGE 1B TYPICAL SECTION

ILLINOIS ROUTE 31
STA. 277+50 TO STA. 311+08



STAGE 2A TYPICAL SECTION

ILLINOIS ROUTE 31
STA. 277+50 TO STA. 320+53

PRE-STAGE 1

- CONSTRUCT CULVERTS ON ILLINOIS ROUTE 31 AT STATIONS 286+74 AND 298+22. CONSTRUCT STORM SEWER AND DRAINAGE STRUCTURES AT STATIONS 285+50, 291+00, 293+48, AND 296+50. DAILY LANE CLOSURES OF THE SINGLE THRU LANES IN EACH DIRECTION WILL BE ALLOWED IN ACCORDANCE WITH STANDARD 701006 AND 70201 BETWEEN 9 AM AND 3 PM.
- DRAINAGE STRUCTURES IN THE PAVEMENT SHALL BE COVERED WITH FLAT PLATE IN ACCORDANCE WITH STANDARD BD-08. REMAINING DRAINAGE STRUCTURES SHALL BE COVERED WITH FLAT PLATE AND REMAIN PROTRUDING FROM EXISTING GROUND A MINIMUM OF 1-FOOT.
- REMOVE CONCRETE MEDIAN BETWEEN STATIONS 317+90 AND 320+70. DAILY LANE CLOSURES OF SINGLE THRU LANES IN EACH DIRECTION WILL BE ALLOWED IN ACCORDANCE WITH STANDARD 701006, 701201 AND 701701 BETWEEN 9 AM AND 3 PM.

- THE EXISTING PAVEMENT SHALL BE PATCHED WITH CLASS D PATCHES, 10 INCH AND SHALL BE PAID AS SUCH.

STAGE 1A

- INSTALL EROSION CONTROL MEASURES.
- REMOVE CONFLICTING PAVEMENT MARKINGS.
- INSTALL TEMPORARY PAVEMENT MARKINGS.
- CLOSE OFF NORTHBOUND LANE OF ILLINOIS ROUTE 31. SHIFT TRAFFIC ONTO THE WEST SIDE OF ILLINOIS ROUTE 31.
- REMOVE EXISTING PAVEMENT, SHOULDER AND OTHER COMPONENTS.
- CONSTRUCT STORM SEWER AND GRADE SOUTHBOUND LANES EAST SIDE OF ILLINOIS ROUTE 31.
- CONSTRUCT PROPOSED OUTSIDE LANE PAVEMENT AND CURB AND GUTTER ON EAST SIDE OF ILLINOIS ROUTE 31.
- RECONSTRUCT DRIVEWAYS AND DRIVEWAY CULVERTS.
- GRADE THE DITCHES.

STAGE 1B

- CONSTRUCT PROPOSED INSIDE LANE PAVEMENT ON EAST SIDE OF ILLINOIS ROUTE 31.

STAGE 2A

- REMOVE CONFLICTING PAVEMENT MARKINGS.
- INSTALL TEMPORARY PAVEMENT MARKINGS FOR NORTHBOUND TRAFFIC ON EAST SIDE OF ILLINOIS ROUTE 31.
- SHIFT NORTHBOUND TRAFFIC TO EAST SIDE OF ILLINOIS ROUTE 31.
- CONSTRUCT TEMPORARY PAVEMENT FROM STATION 277+50 TO 283+56 AND STATION 310+37 TO 312+07.
- INSTALL REMAINDER OF TEMPORARY PAVEMENT MARKINGS FOR STAGE 2.
- CLOSE OFF SOUTHBOUND LANE OF ILLINOIS ROUTE 31. SHIFT TRAFFIC ONTO THE EAST SIDE OF ILLINOIS ROUTE 31.
- BAG UNUSED TRAFFIC SIGNAL HEADS AND ADJUST NORTHBOUND LEFT TURN SIGNAL AT ILLINOIS ROUTE 31 AND JAMES R RAKOW ROAD.
- REMOVE EXISTING PAVEMENT, SHOULDER AND OTHER COMPONENTS.
- CONSTRUCT STORM SEWER AND GRADE NORTHBOUND LANES WEST SIDE OF ILLINOIS ROUTE 31.
- CONSTRUCT PROPOSED OUTSIDE LANE PAVEMENT AND CURB AND GUTTER ON WEST SIDE OF ILLINOIS ROUTE 31.
- CONSTRUCT BIKE PATH AND RETAINING WALL.
- RECONSTRUCT DRIVEWAYS AND DRIVEWAY CULVERTS.
- GRADE THE DITCHES.

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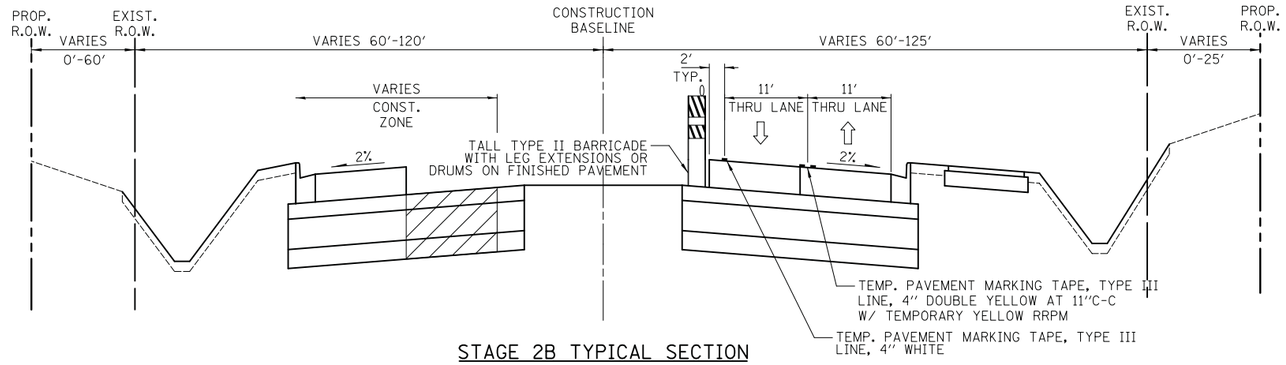
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

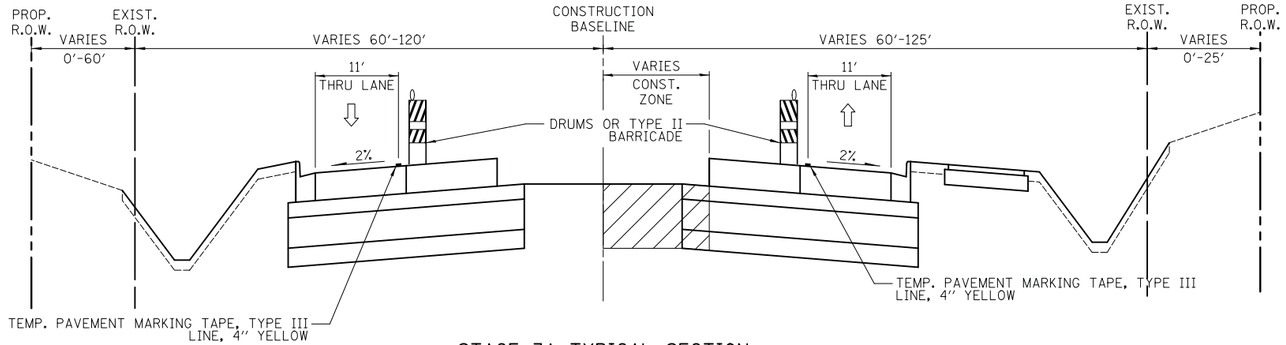
SCALE: NONE | SHEET NO. 1 OF 13 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	20
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



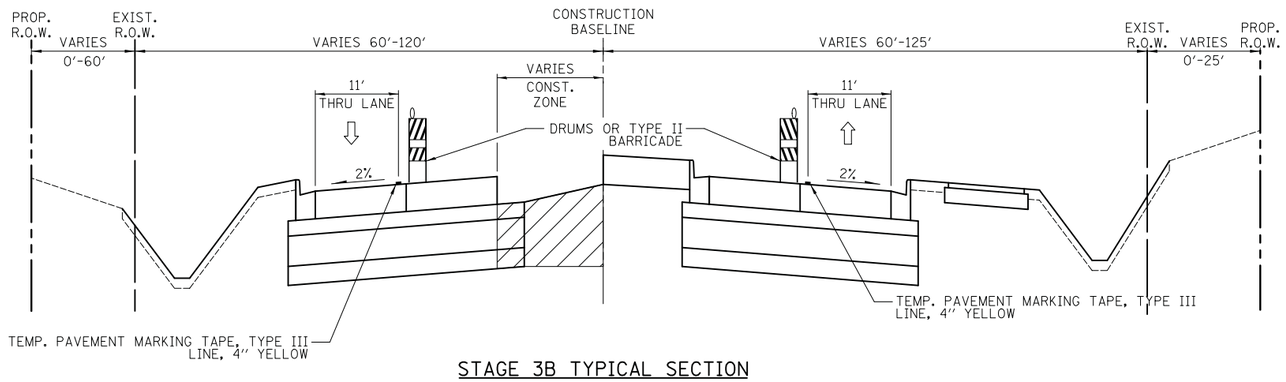
STAGE 2B TYPICAL SECTION

ILLINOIS ROUTE 31
STA. 277+50 TO STA. 320+53



STAGE 3A TYPICAL SECTION

ILLINOIS ROUTE 31
STA. 277+50 TO STA. 320+83



STAGE 3B TYPICAL SECTION

ILLINOIS ROUTE 31
STA. 277+50 TO STA. 320+83

STAGE 2B

-CONSTRUCT INSIDE LANE PAVEMENT ON WEST SIDE OF ILLINOIS ROUTE 31.

STAGE 3A

- INSTALL EROSION CONTROL MEASURES.
- REMOVE CONFLICTING PAVEMENT MARKINGS.
- INSTALL TEMPORARY PAVEMENT MARKINGS.
- CLOSE OFF SOUTHBOUND LANE OF ILLINOIS ROUTE 31. SHIFT SOUTHBOUND TRAFFIC ONTO THE WEST SIDE OF ILLINOIS ROUTE 31. RETAIN NORTHBOUND TRAFFIC ON EAST SIDE OF ILLINOIS ROUTE 31.
- BAG UNUSED TRAFFIC SIGNAL HEADS AT ILLINOIS ROUTE 31 AND JAMES R RAKOW ROAD. COORDINATE MODIFICATIONS TO THE EXISTING TRAFFIC SIGNAL OPERATION WITH I.D.O.T. PERSONNEL.
- CONSTRUCT MEDIAN, CURB AND GUTTER, AND TURN LANE ON EAST SIDE OF ILLINOIS ROUTE 31.

STAGE 3B

- CONSTRUCT MEDIAN, CURB AND GUTTER, AND TURN LANE ON WEST SIDE OF ILLINOIS ROUTE 31.

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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

SCALE: NONE | SHEET NO. 2 OF 13 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	21
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

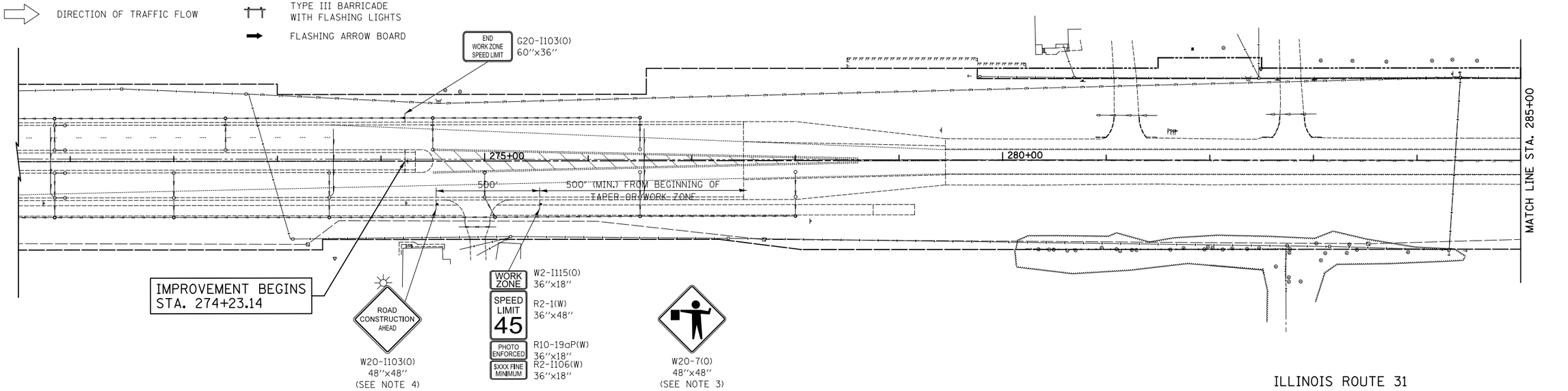
DRUM OR TYPE II BARRICADE WITH
BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS
MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)

TYPE II DIRECTION INDICATOR BARRICADE
WITH MONO-DIRECTIONAL STEADY BURN LIGHT

DOUBLE VERTICAL PANEL WITH
BI-DIRECTIONAL STEADY-BURN LIGHT

TYPE III BARRICADE
WITH FLASHING LIGHTS

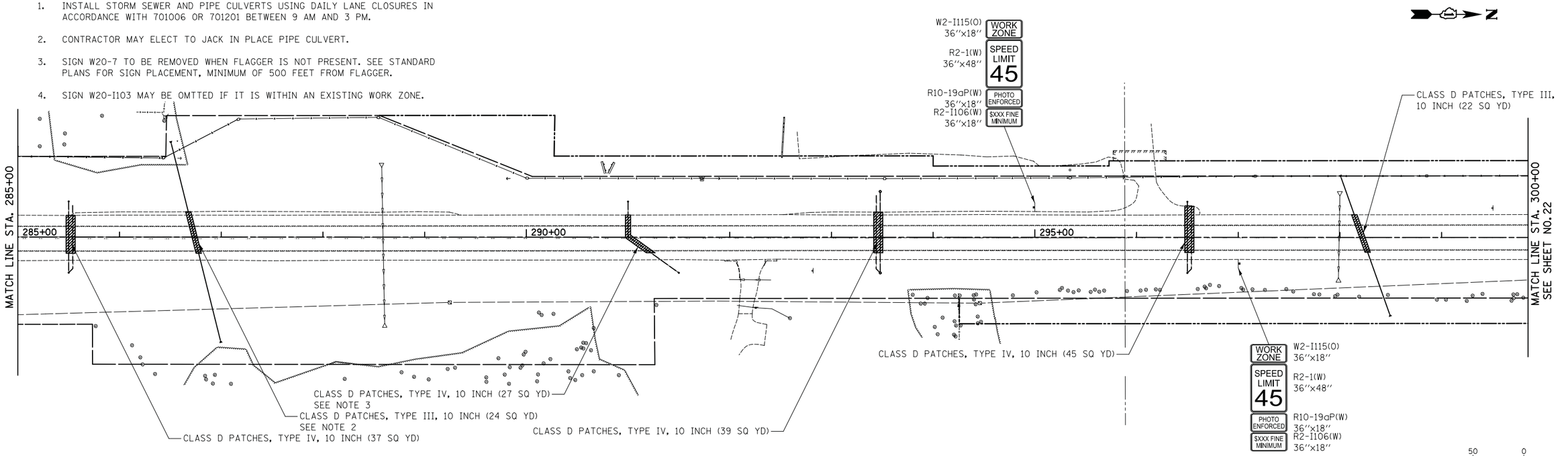
FLASHING ARROW BOARD



ILLINOIS ROUTE 31

NOTES:

1. INSTALL STORM SEWER AND PIPE CULVERTS USING DAILY LANE CLOSURES IN ACCORDANCE WITH 701006 OR 701201 BETWEEN 9 AM AND 3 PM.
2. CONTRACTOR MAY ELECT TO JACK IN PLACE PIPE CULVERT.
3. SIGN W20-7 TO BE REMOVED WHEN FLAGGER IS NOT PRESENT. SEE STANDARD PLANS FOR SIGN PLACEMENT, MINIMUM OF 500 FEET FROM FLAGGER.
4. SIGN W20-I103 MAY BE OMTTED IF IT IS WITHIN AN EXISTING WORK ZONE.



ILLINOIS ROUTE 31

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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – PRE–STAGE 1

SCALE: 1" = 50' | SHEET NO. 3 OF 13 SHEETS | STA. 274+23.14 TO STA. 300+00

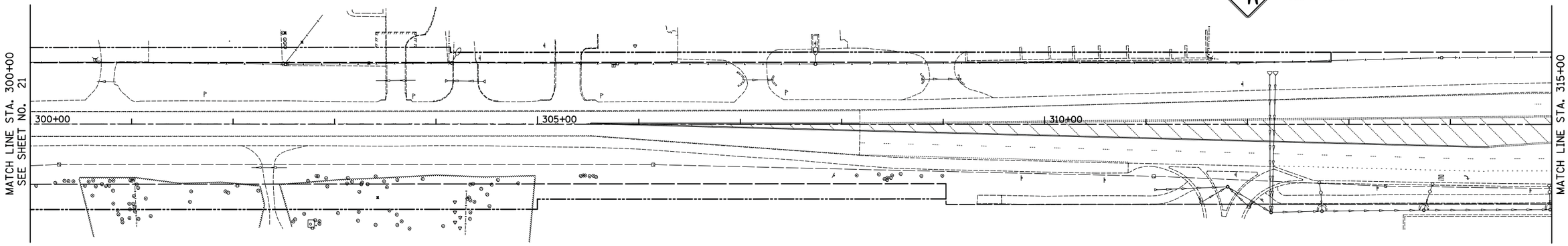
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	22
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)
- TYPE II DIRECTION INDICATOR BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT
- DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY-BURN LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- FLASHING ARROW BOARD

N

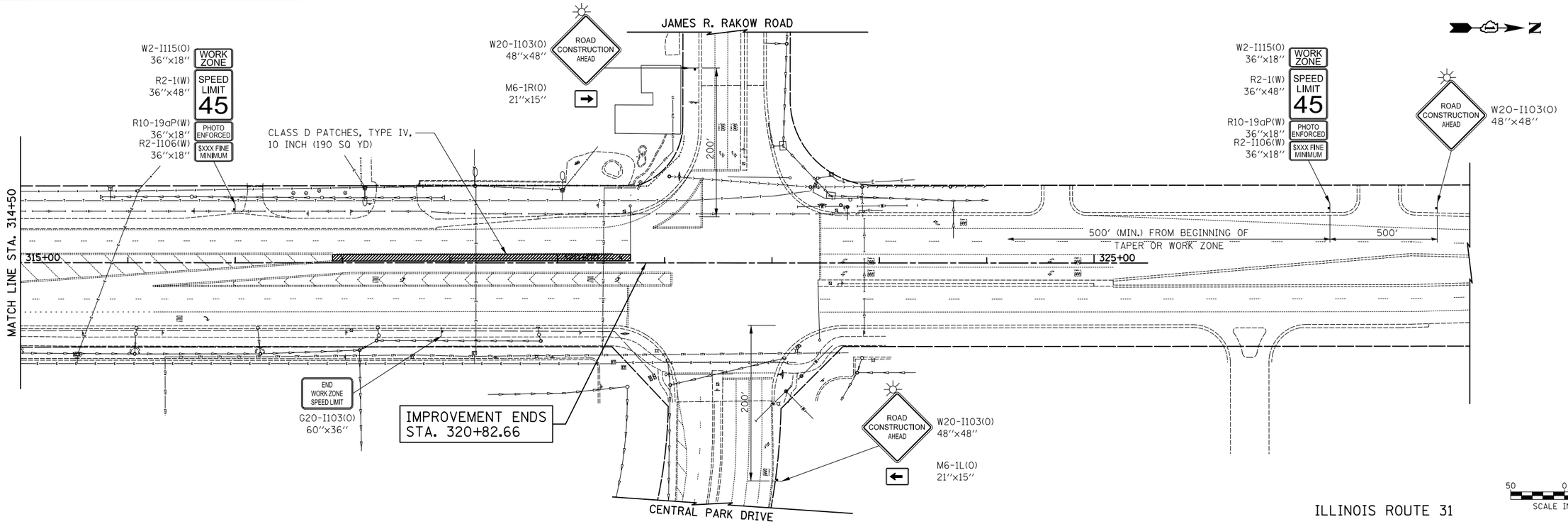
W20-7(0)
48"x48"
(SEE NOTE 2)



NOTES:

1. INSTALL STORM SEWER AND PIPE CULVERTS USING DAILY LANE CLOSURES IN ACCORDANCE WITH 701006 OR 701201 BETWEEN 9 AM AND 3 PM.
2. SIGN W20-7 TO BE REMOVED WHEN FLAGGER IS NOT PRESENT. SEE STANDARD PLANS FOR SIGN PLACEMENT, MINIMUM OF 500 FEET FROM FLAGGER.

ILLINOIS ROUTE 31



ILLINOIS ROUTE 31

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	PLOT DATE = 9/6/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – PRE–STAGE 1

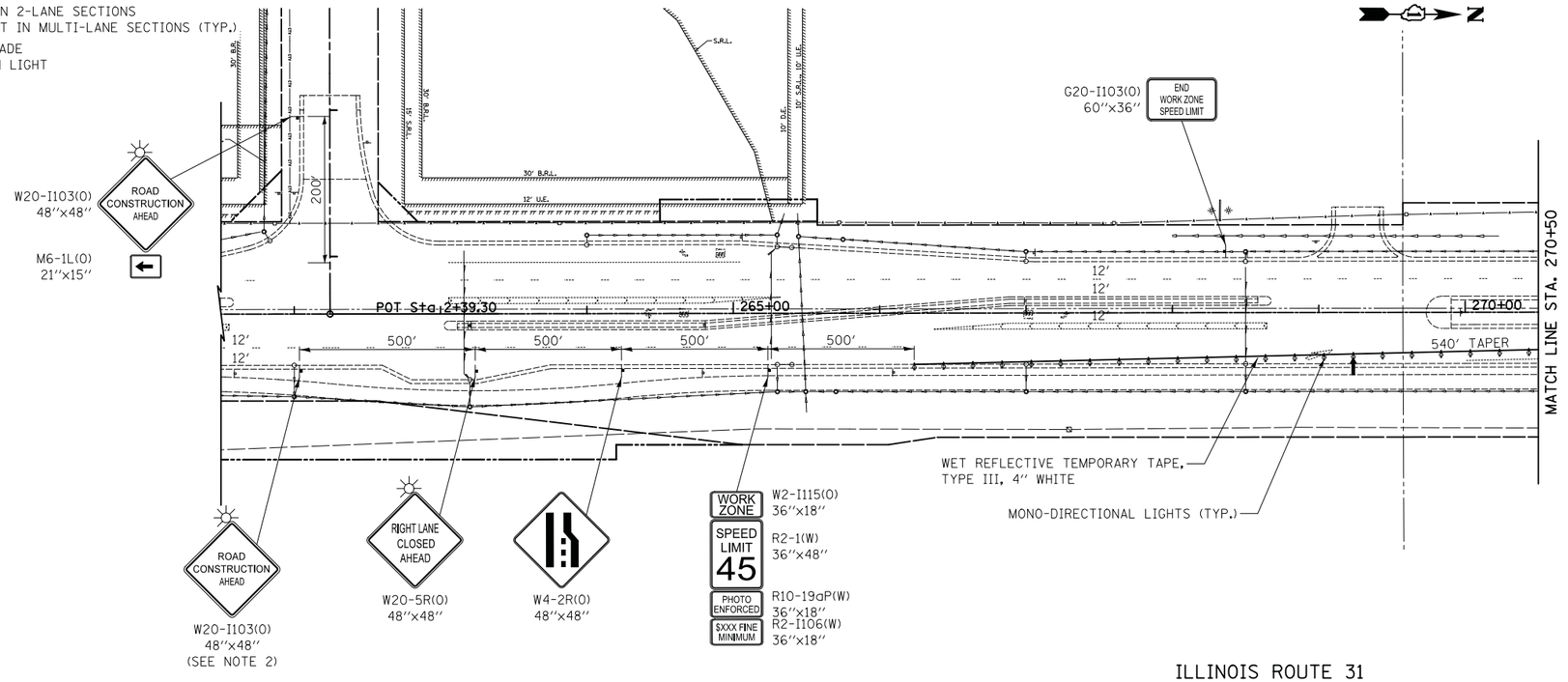
SCALE: 1" = 50' | SHEET NO. 4 OF 13 SHEETS | STA. 300+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	23
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

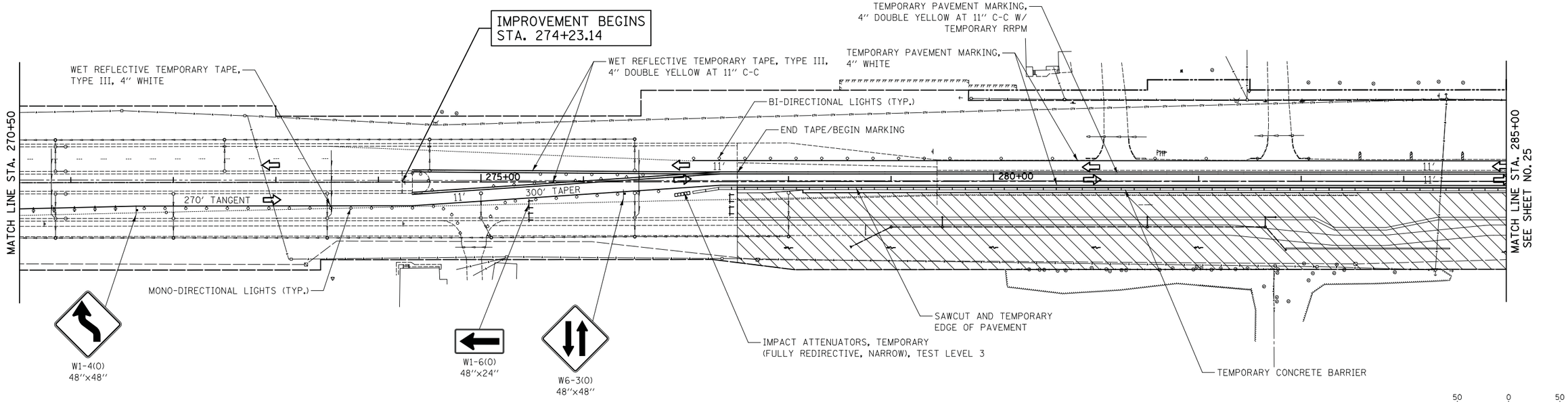
LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)
- TYPE II DIRECTION INDICATOR BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT
- DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY-BURN LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- FLASHING ARROW BOARD

NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C INTANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.
2. SIGN W20-I103 MAY BE OMITTED IF IT IS WITHIN AN EXISTING WORK ZONE.
3. IMPACT ATTENUATORS SHALL BE PLACED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



ILLINOIS ROUTE 31



50 0 50
SCALE IN FEET

ILLINOIS ROUTE 31

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	PLOT DATE = 9/6/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 1A & B

SCALE: 1" = 50' | SHEET NO. 5 OF 13 SHEETS | STA. 274+23.14 TO STA. 285+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	24
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

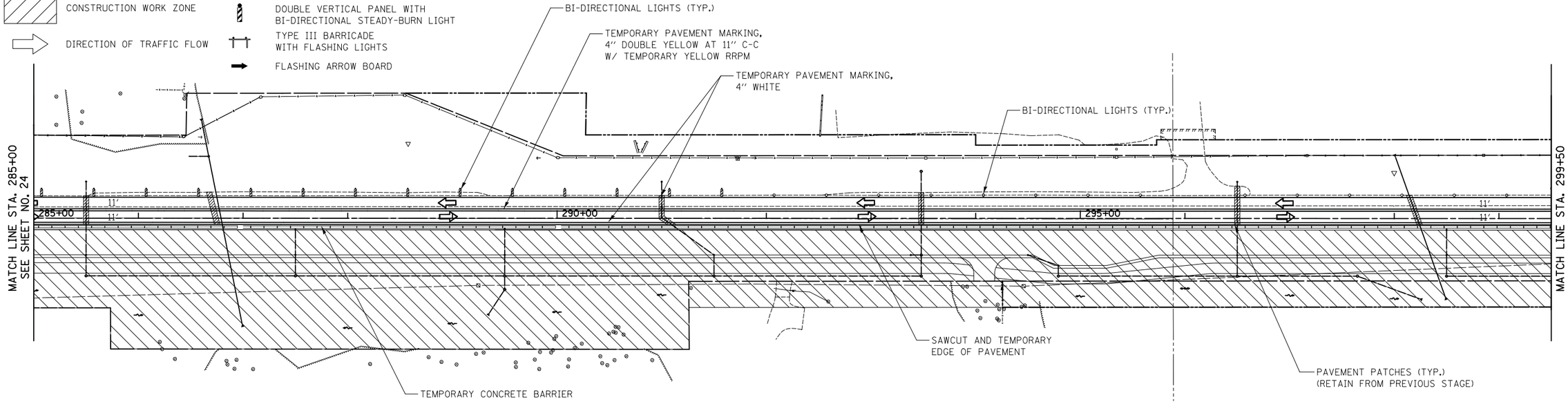
DRUM OR TYPE II BARRICADE WITH
BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS
MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)

TYPE II DIRECTION INDICATOR BARRICADE
WITH MONO-DIRECTIONAL STEADY BURN LIGHT

DOUBLE VERTICAL PANEL WITH
BI-DIRECTIONAL STEADY-BURN LIGHT

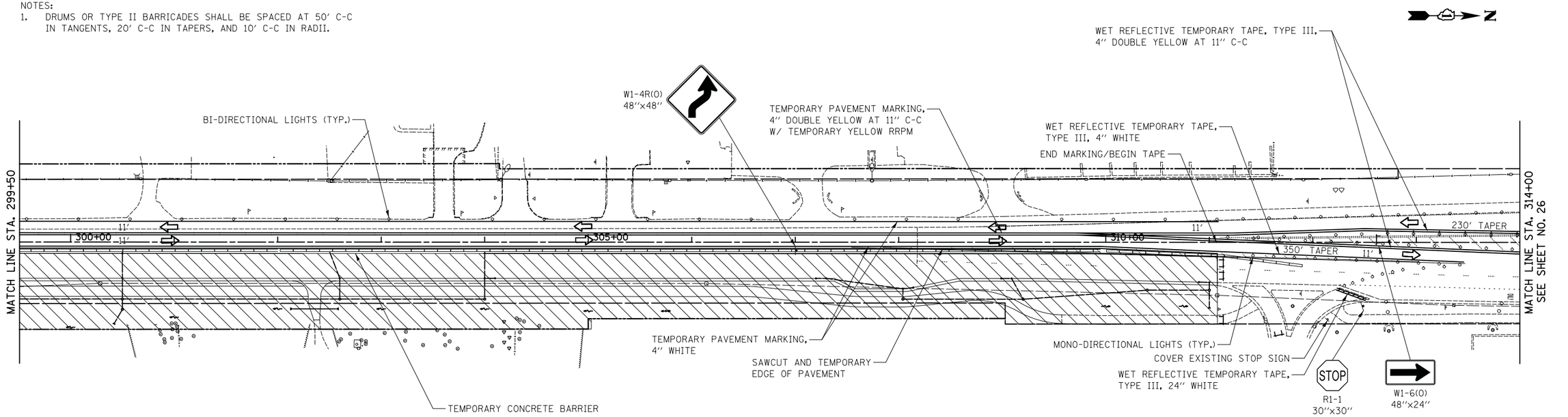
TYPE III BARRICADE
WITH FLASHING LIGHTS

FLASHING ARROW BOARD



ILLINOIS ROUTE 31

NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C IN TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.



ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 1A & B

SCALE: 1" = 50' | SHEET NO. 6 OF 13 SHEETS | STA. 285+00 TO STA. 314+00

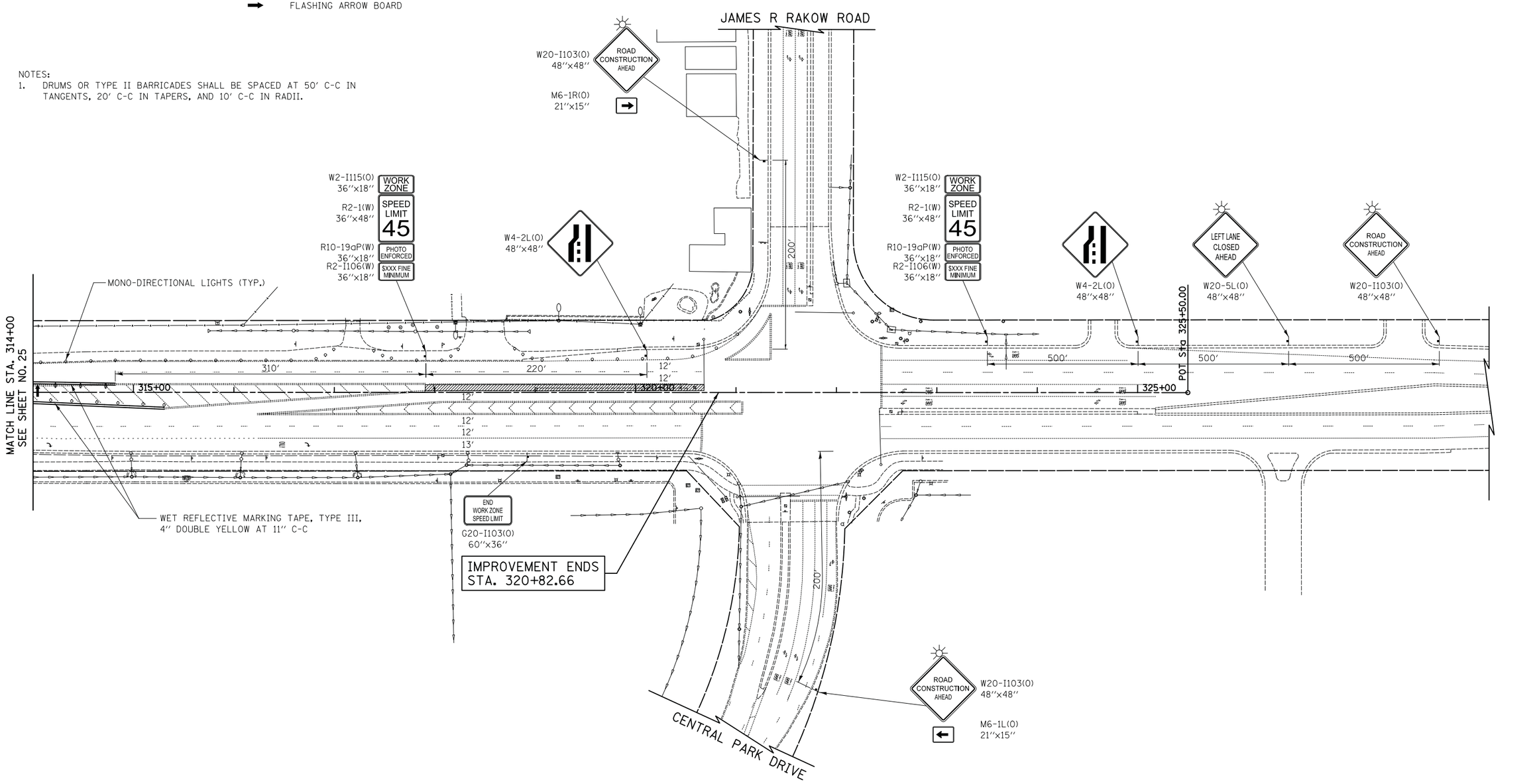
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	25
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)
- TYPE II DIRECTION INDICATOR BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT
- DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY-BURN LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- FLASHING ARROW BOARD

N

NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C IN TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.



ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

FILE NAME = ...\06-MOT\2278NG_MOT_S1_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 9/6/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 1A & B

SCALE: 1" = 50' | SHEET NO. 7 OF 13 SHEETS | STA. 314+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	26
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)

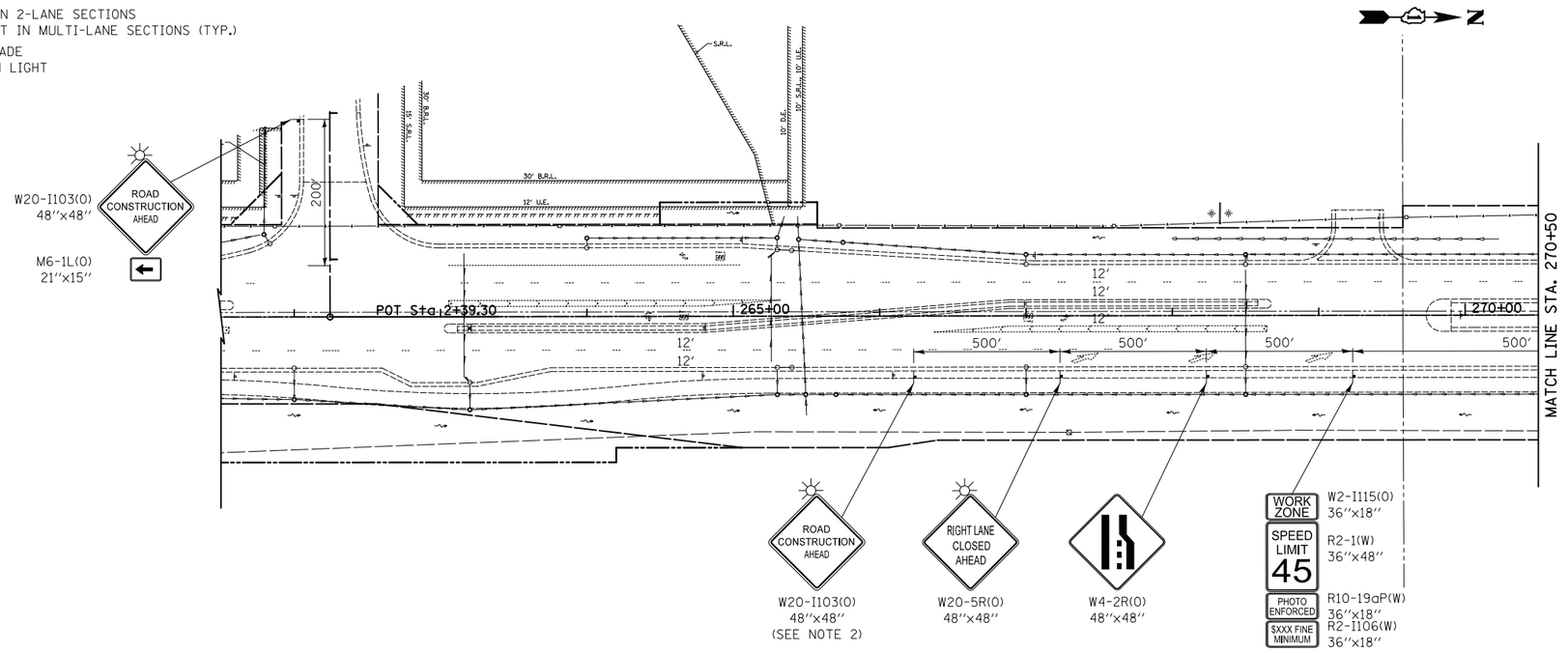
TYPE II DIRECTION INDICATOR BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY-BURN LIGHT

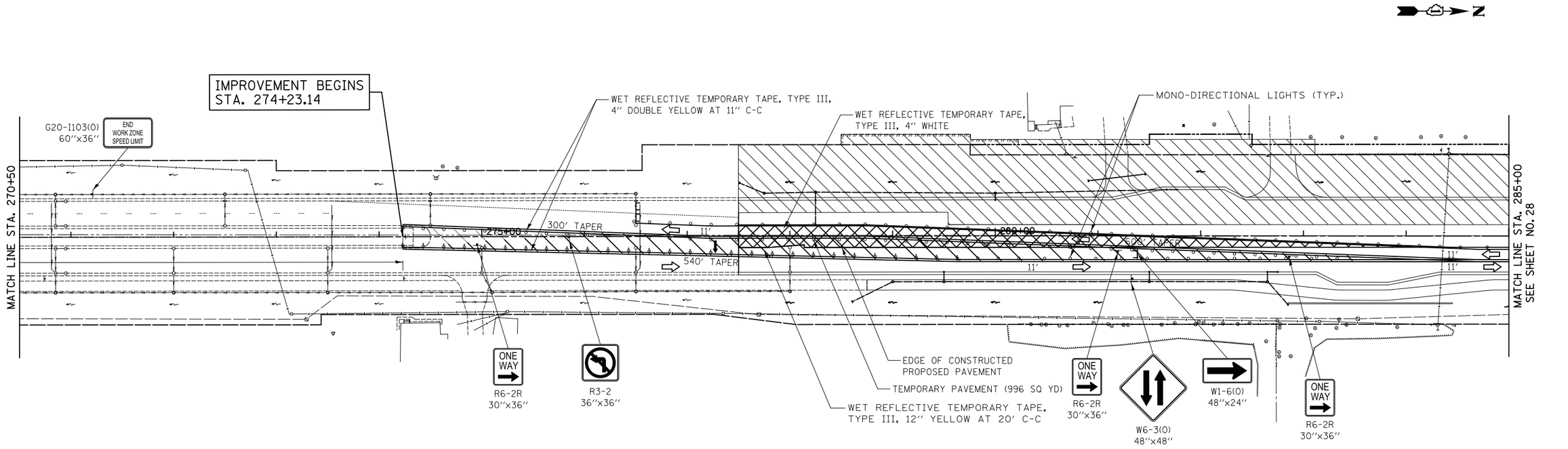
TYPE III BARRICADE WITH FLASHING LIGHTS

FLASHING ARROW BOARD

NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C IN TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.
2. SIGN W20-I103 MAY BE OMITTED IF IT IS WITHIN AN EXISTING WORK ZONE.



ILLINOIS ROUTE 31



ILLINOIS ROUTE 31

FILE NAME = ...\06-MOT\2278NG_MOT_S2_01.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
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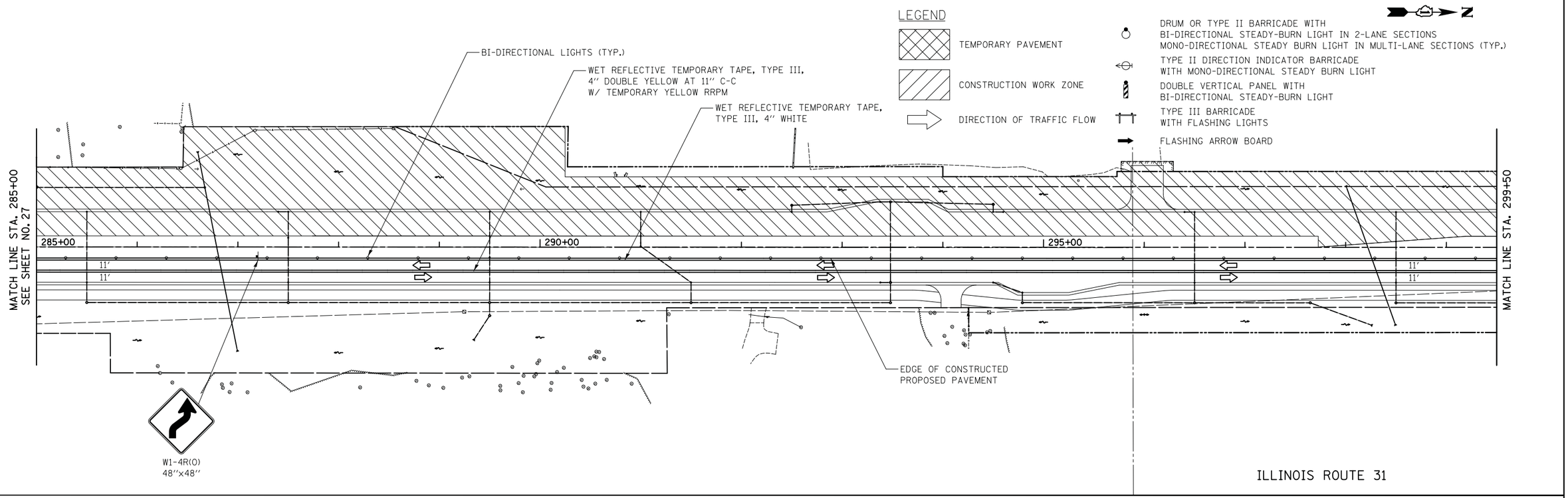
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

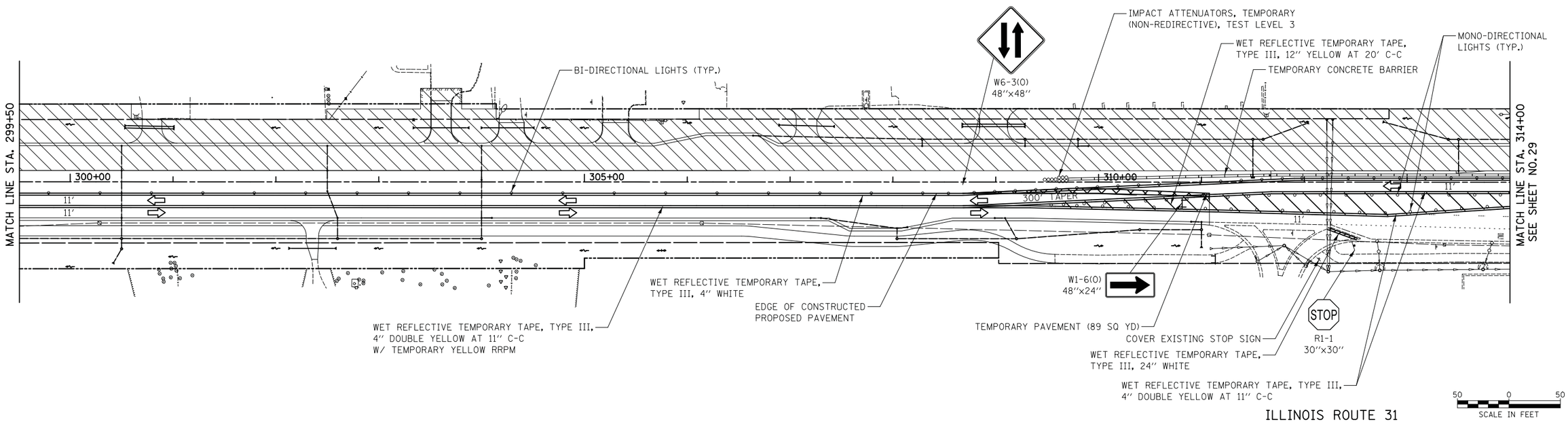
MAINTENANCE OF TRAFFIC – STAGE 2A & B

SCALE: 1" = 50' | SHEET NO. 8 OF 13 SHEETS | STA. 274+23.14 TO STA. 285+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	27
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C IN TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.



FILE NAME = ...\06-MOT\2278NG_MOT_S2_02.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 2A & B

SCALE: 1" = 50' | SHEET NO. 9 OF 13 SHEETS | STA. 285+00 TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	28
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)
- TYPE II DIRECTION INDICATOR BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT
- DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY-BURN LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- FLASHING ARROW BOARD

N

NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C IN TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.

JAMES R RAKOW ROAD

W20-I103(0) 48"x48" — ROAD CONSTRUCTION AHEAD

M6-1(0) 21"x15"

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 12" YELLOW AT 20' C-C

MONO-DIRECTIONAL LIGHTS (TYP.)

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

BI-DIRECTIONAL LIGHTS (TYP.)

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" WHITE

W1-4L(O) 48"x48"

KEEP LEFT

R4-8a(W) 24"x30"

50' R

200'

TEMPORARY CONCRETE BARRIER

315+00

320+00

ROD TAPER

11'

MATCH LINE STA. 314+00 SEE SHEET NO. 28

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6" WHITE

WET REFLECTIVE TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS

PAVEMENT PATCHES (TYP.) (FROM PREVIOUS STAGE)

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" DOUBLE YELLOW AT 11" C-C

IMPROVEMENT ENDS STA. 320+82.66

ROAD CONSTRUCTION AHEAD — W20-I103(0) 48"x48"

M6-1(O) 21"x15"

CENTRAL PARK DRIVE

MONO-DIRECTIONAL LIGHTS (TYP.)

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" WHITE

(INSTALL PER TC-14)

RIGHT TURN LANE — SPECIAL(W) 24"x30"

M6-2(W) 21"x15"

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" WHITE

WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" WHITE (2' DASH-6' SKIP)

12'

12'

20'

240' TAPER

325+00

MATCH LINE A

END WORK ZONE SPEED LIMIT

G20-I103(0) 60"x36"

W2-I115(0) 36"x18" — WORK ZONE

R2-1(W) 36"x48" — SPEED LIMIT 45

R10-19aP(W) 36"x18" — PHOTO ENFORCED

R2-I106(W) 36"x18" — $XXX FINE MINIMUM

W4-2R(O) 48"x48"

W20-5R(O) 48"x48" — RIGHT LANE CLOSED AHEAD

ROAD CONSTRUCTION AHEAD — W20-I103(0) 48"x48"

MATCH LINE A — 540' TAPER — MATCH LINE B

MATCH LINE B

500' 500' 500' 500'

12' 12' 12' 12' 12'

50 0 50

SCALE IN FEET

ILLINOIS ROUTE 31

FILE NAME = ...\06-MOT\2278NG_MOT_S2_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 2A & B

SCALE: 1" = 50' | SHEET NO. 10 OF 13 SHEETS | STA. 314+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	29
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)

TYPE II DIRECTION INDICATOR BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY-BURN LIGHT

TYPE III BARRICADE WITH FLASHING LIGHTS

FLASHING ARROW BOARD

NOTES:
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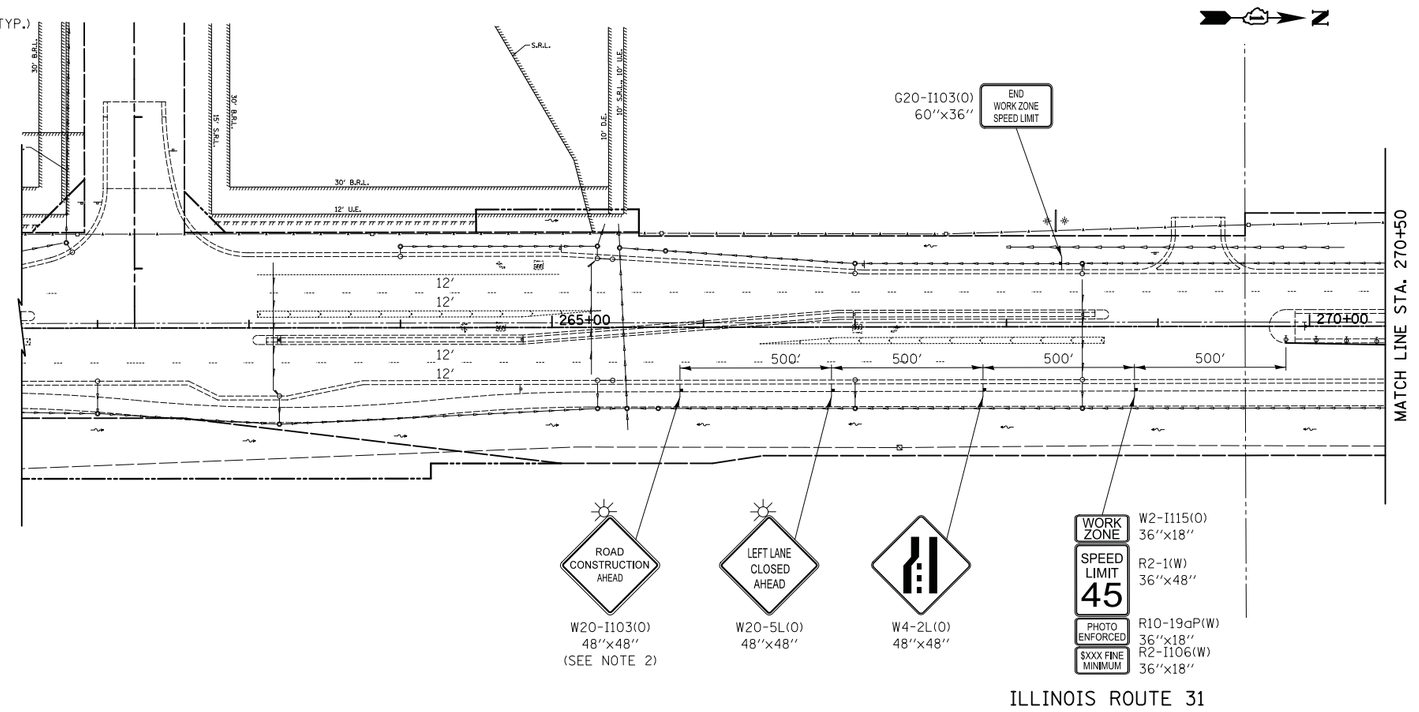
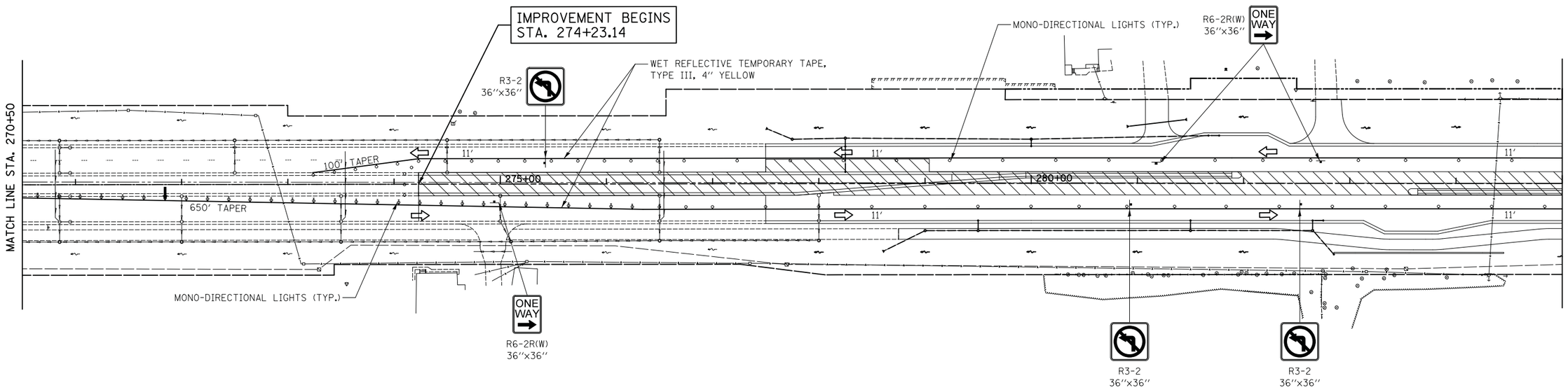


ILLINOIS ROUTE 31



ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

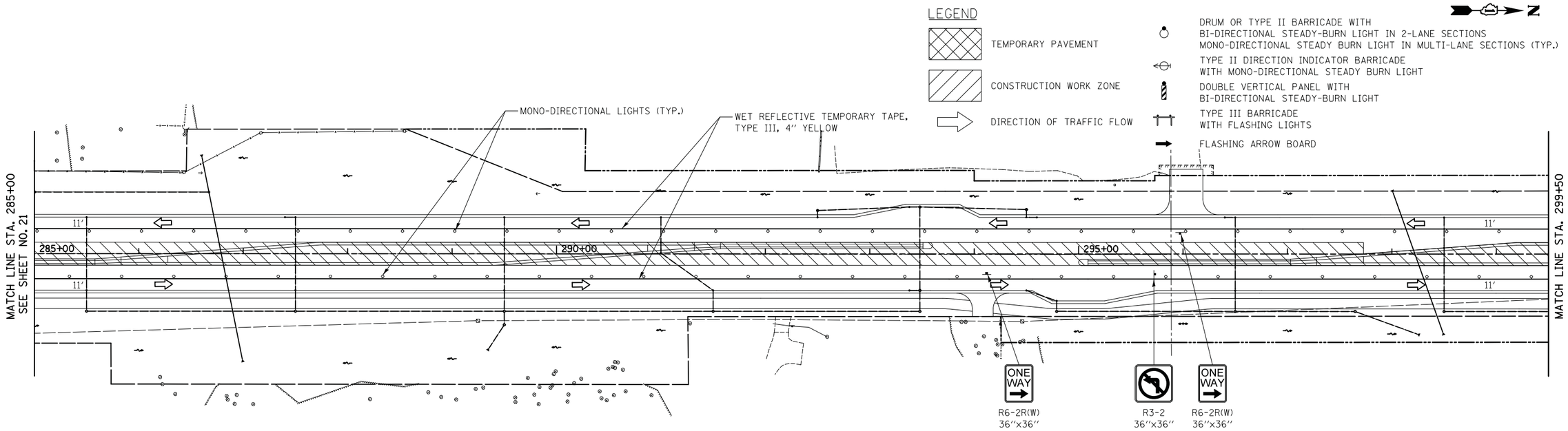
FILE NAME = ...\06-MOT\2278NG_MOT_S3_01.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 50.0000 ′ / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 3A & B

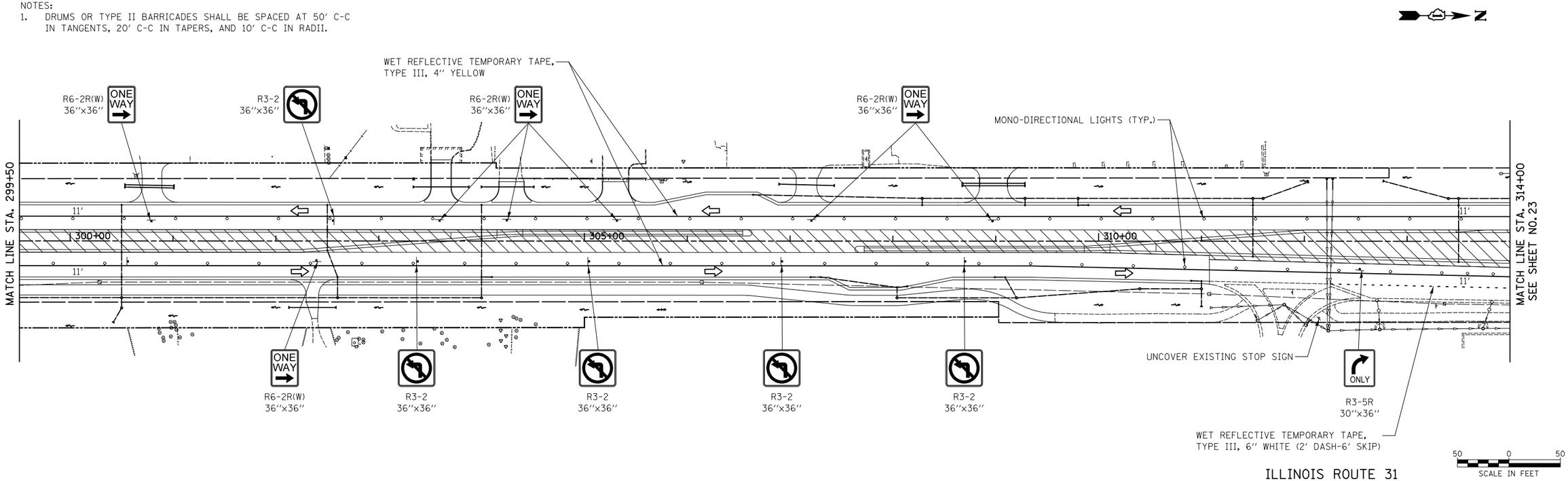
SCALE: 1″ = 50′ | SHEET NO. 11 OF 13 SHEETS | STA. 274+23.14 TO STA. 285+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	30
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



ILLINOIS ROUTE 31

NOTES:
1. DRUMS OR TYPE II BARRICADES SHALL BE SPACED AT 50' C-C IN TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.



ILLINOIS ROUTE 31

FILE NAME = ...\06-MOT\2278NG_MOT_S3_02.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 3A & B

SCALE: 1" = 50' | SHEET NO. 12 OF 13 SHEETS | STA. 285+00 TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	31
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUM OR TYPE II BARRICADE WITH BI-DIRECTIONAL STEADY-BURN LIGHT IN 2-LANE SECTIONS MONO-DIRECTIONAL STEADY BURN LIGHT IN MULTI-LANE SECTIONS (TYP.)
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N

NOTES:
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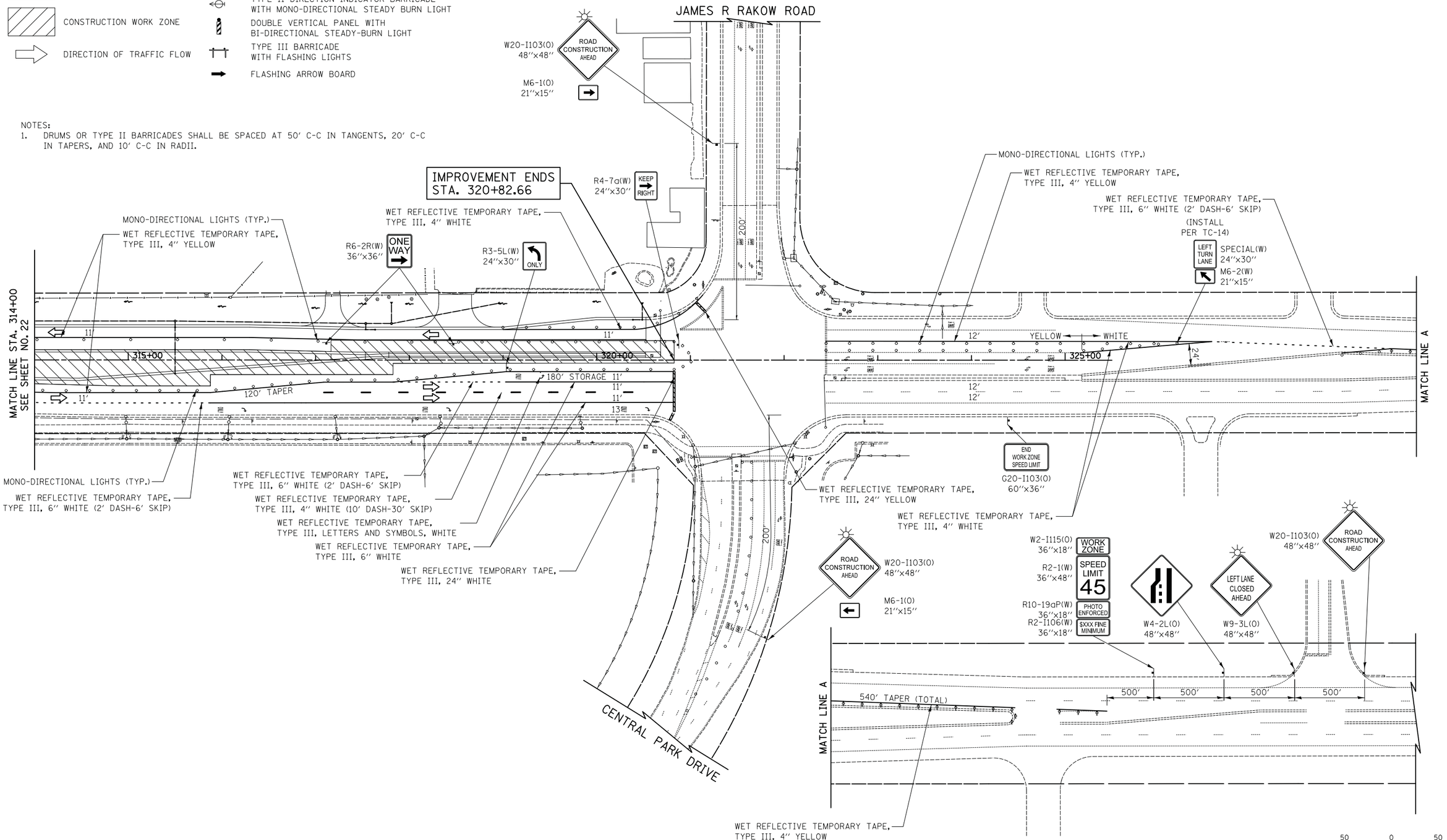

ILLINOIS ROUTE 31

FILE NAME = ...\06-MOT\2278NG_MOT_S3_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 3A & B

SCALE: 1" = 50' | SHEET NO. 13 OF 13 SHEETS | STA. 314+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	32
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

EX ROW
GRAVEL PIT
IMPROVEMENT BEGINS
STA. 274+23.14
EX ROW
20' COMB CURB GUTTER REM
UG TELEPHONE TO
BE RELOCATED
(BY OTHERS)
274+23.14
11.00' LT
490 SQ FT MEDIAN REMOVAL
520 SQ YD PAVEMENT REM
272
273
274
275+00
276
REMOVE SIGN PANEL
ASSEMBLY - TYPE A
274+23.14
11.00' RT
PROP CENTERLINE
MATCH LINE STA. 276+60
REMOVE SIGN PANEL
ASSEMBLY - TYPE A
EX ROW
EX ROW
ILLINOIS ROUTE 31

20 0 20
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

EX ROW
PR TEMP EASEMENT
POWER POLE TO BE
RELOCATED (BY OTHERS)
POWER POLE TO
BE RELOCATED
(BY OTHERS)
PR ROW
SAW CUT
EX ROW
GRAVEL PIT
160 SQ YD DRIVE PAVEMENT REM
281+28.25
78.85' LT
BIT
330 SQ YD PAVED SHLD REMOVAL
UG TELEPHONE TO
BE RELOCATED
(BY OTHERS)
REMOVE SIGN PANEL
ASSEMBLY - TYPE A
265 SQ YD PAVED SHLD REMOVAL
640 SQ YD PAVEMENT REM
UG GAS TO
BE RELOCATED
(BY OTHERS)
220 SQ YD PAVEMENT REM
700 SQ YD PAVEMENT REM
31 FT CURB REM
31 FT CURB REM
277+50.00
11.00' LT
RELOCATE EXISTING MAILBOX (4)
277
278
279
280+00
281
PROP CENTERLINE
MATCH LINE STA. 276+60
MATCH LINE STA. 281+80
SEE SHEET NO. 34
277+50.00
11.00' RT
353 SQ YD PAVED SHLD REMOVAL
258 SQ YD PAVED SHLD REMOVAL
NOTE
1. AGG SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. SEE ALIGNMENT, TIES AND BENCHMARKS SHEET NO. 18 FOR DETAILED ROW AND EASEMENT LOCATION.
FARMLAND
REMOVE SIGN PANEL
ASSEMBLY - TYPE A
400 SQ FT SIDEWALK REMOVAL
REMOVE BRUSH LINE TO ROW
EX ROW
EX ROW
(R1) 59' - PIPE CULVERT REMOV
ILLINOIS ROUTE 31

FILE NAME = ...\07-Removals\2278NG_REM_01.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 5 SHEETS | STA. 274+23.14 TO STA. 281+80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	33
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PR TEMP EASEMENT
PR ROW
EX ROW
SAW CUT
REMOVE SIGN (SPECIAL)
282+87.98
79.07' LT
BIT
TELEPHONE PEDESTAL TO BE RELOCATED (BY OTHERS)
POWER POLE TO BE RELOCATED (BY OTHERS)
UG GAS TO BE RELOCATED (BY OTHERS)
150 SQ YD DRIVEWAY PAVEMENT REMOVAL
POWER POLE TO BE RELOCATED (BY OTHERS)
8"
15"
REMOVE BRUSH LINE TO ROW
POWER POLE TO BE RELOCATED (BY OTHERS)
MATCH LINE STA. 281+80
SEE SHEET NO. 33
607 SQ YD PAVED SHOULDER REMOVAL
1427 SQ YD PAVEMENT REM
AGG SHOULDER
PROP CENTERLINE
282
283
284
285+00
286
MATCH LINE STA. 287+00
530 SQ YD PAVED SHOULDER REMOVAL
REMOVE BRUSH LINE TO ROW
EX ROW
FARMLAND/PARK DISTRICT
4" & 8"
11"
ILLINOIS ROUTE 31
20 0 20
SCALE IN FEET

PLAN
DATE
BY
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

FES TO BE REMOVED
REMOVE SIGN (SPECIAL) (2)
PR ROW
GRAVEL PIT
EX ROW
POWER POLE TO BE RELOCATED (BY OTHERS)
1435 SQ YD PAVEMENT REM
607 SQ YD PAVED SHOULDER REMOVAL
POWER POLE TO BE RELOCATED (BY OTHERS)
TELEPHONE PEDESTAL TO BE RELOCATED (BY OTHERS)
AGG SHOULDER
MATCH LINE STA. 287+00
287
288
289
290+00
291
292
MATCH LINE STA. 292+20
SEE SHEET NO. 35
28 FT CURB REMOVAL
AGG
R4
515 SQ YD PAVED SHOULDER REMOVAL
(R2) 48' - PIPE CULVERT REMOV
(R3) 154' - SS REM 21
(R4) 41' - PIPE CULVERT REMOV
R3
REMOVE BRUSH LINE TO ROW
EX ROW
6"
18"
11"
8"
FARMLAND/ PARK DISTRICT
FES TO BE REMOVED

NOTE
1. AGG SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. SEE ALIGNMENT, TIES AND BENCHMARKS SHEET NO. 18 FOR DETAILED ROW AND EASEMENT LOCATION.

PROFILE
DATE
BY
SURVEYED
PLOTTED
PROFILE CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.

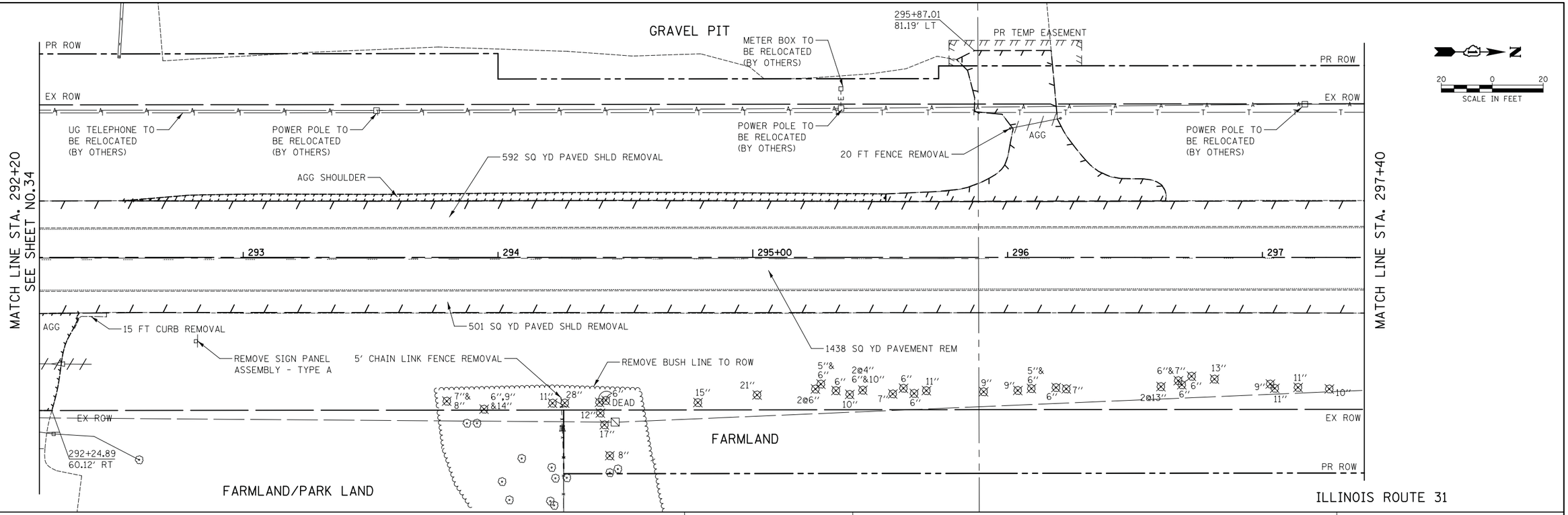
FILE NAME = ...\07-Removals\2278NG_REM_02.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

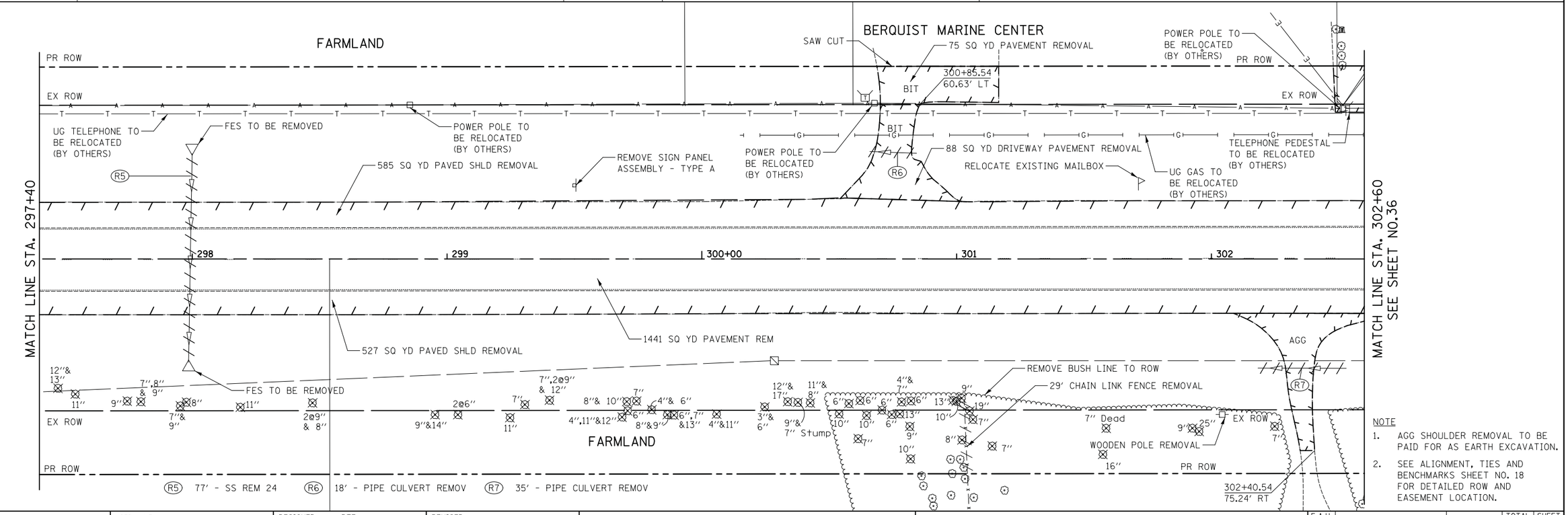
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 2 OF 5 SHEETS | STA. 281+80 TO STA. 292+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	34
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





NOTE

1. AGG SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. SEE ALIGNMENT, TIES AND BENCHMARKS SHEET NO. 18 FOR DETAILED ROW AND EASEMENT LOCATION.

PLAN / PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE; BM. NOTED, STRUCTURE NOTATNS CHKD

FILE NAME ...\07-Removals\2278NG_REM_03.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 3 OF 5 SHEETS | STA. 292+20 TO STA. 302+60

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	35
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CHICAGO RACING

ROUTE 31 24 HOUR SELF STORAGE

WHISPERING HILLS NURSERY

303+50.47
78.86' LT

SAW CUT

17 FT FENCE REMOVAL

POWER POLE WITH LAMP TO BE RELOCATED (BY OTHERS)

134 SQ YD DRIVE PAVEMENT REM

304+41.09
58.85' LT

305+43.25
57.58' LT

114 SQ FT BRICK SIDEWALK REMOVAL

12 FT RETAINING WALL REMOVAL

91 SQ YD PAVEMENT REMOVAL

POWER POLE & LAMP TO BE RELOCATED (BY OTHERS)

111 SQ YD DRIVE PAVEMENT REM

307+25.99
59.58' LT EX ROW

PR ROW

EX ROW

AGG

BIT

59 FT CURB REM

59 FT CURB REM

47 FT CURB REM

47 FT CURB REM

35 FT FENCE REMOVAL

19 FT RETAINING WALL REMOVAL

11 FT RETAINING WALL REMOVAL

R8

R9

R10

UG GAS TO BE RELOCATED (BY OTHERS)

FES TO BE REMOVED

FES TO BE REMOVED

47 FT CURB REM

47 FT CURB REM

106 SQ YD DRIVE PAVEMENT REM

UG TELEPHONE TO BE RELOCATED (BY OTHERS)

114 SQ YD DRIVE PAVEMENT REM

MAILBOX TO BE RELOCATED

MAILBOX TO BE RELOCATED

542 SQ YD PAVED SHLD REMOVAL

MAILBOX TO BE RELOCATED

MATCH LINE STA. 302+60
SEE SHEET NO.35

303 | 304 | 305+00 | 306 | 307

MATCH LINE STA. 307+80

556 SQ YD PAVED SHLD REMOVAL

1675 SQ YD PAVEMENT REM

REMOVE BRUSH LINE TO ROW

20 FT FENCE REMOVAL

FARMLAND

EX ROW

PR ROW

R8 39' - PIPE CULVERT REMOV

R9 37' - PIPE CULVERT REMOV

R10 31' - PIPE CULVERT REMOV

R11 36' - PIPE CULVERT REMOV

20 0 20
SCALE IN FEET

ILLINOIS ROUTE 31

WHISPERING HILLS NURSERY

16 FT FENCE REMOVAL

POWER POLE TO BE RELOCATED (BY OTHERS)

REMOVE SIGN PANEL ASSEMBLY - TYPE A

309+11.42
59.56' LT

POWER POLE TO BE RELOCATED (BY OTHERS)

302 FT CONCRETE WALL REMOVAL

PR ROW

EX ROW

AGG

AGG

FES TO BE REMOVED

11 FT RETAINING WALL REMOVAL

R11

FES TO BE REMOVED

12 FT RETAINING WALL REMOVAL

UG TELEPHONE TO BE RELOCATED (BY OTHERS)

FES TO BE REMOVED

UG GAS TO BE RELOCATED (BY OTHERS)

151 SQ YD DRIVE PAVEMENT REM

183 SQ YD PAVEMENT REMOVAL

BIT

555 SQ YD PAVED SHLD REMOVAL

2642 SQ YD PAVEMENT REM

MATCH LINE STA. 307+80

308 | 309 | 310+00 | 311 | 312

MATCH LINE STA. 313+00
SEE SHEET NO.37

352 SQ YD PAVED SHLD REMOVAL

SAW CUT AT EXISTING JOINT

REMOVE SIGN PANEL ASSEMBLY - TYPE A

REMOVE SIGN PANEL ASSEMBLY - TYPE B

RELOCATE SIGN PANEL ASSEMBLY - TYPE B

27 FT COMB CURB GUTTER REM

201 SQ FT SIDEWALK REMOVAL

FARMLAND

WAL-MART SUPER CENTER

EX ROW

PR ROW

NOTE

1. AGG SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. SEE ALIGNMENT, TIES AND BENCHMARKS SHEET NO. 18 FOR DETAILED ROW AND EASEMENT LOCATION.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECT. CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME ...\07-Removals\2278NG_REM_04.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 5 SHEETS | STA. 302+60 TO STA. 313+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	36
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

THE BARN NURSERY

577 SQ YD PAVED SHLD REMOVAL

EX ROW

UG GAS TO BE RELOCATED (BY OTHERS)

2949 SQ YD PAVEMENT REM

FES TO BE REMOVED

REMOVING CATCH BASINS

REMOVE SIGN PANEL ASSEMBLY - TYPE A

REMOVING CATCH BASINS

REMOVE SIGN PANEL ASSEMBLY - TYPE A

MAILBOX TO BE RELOCATED

EX ROW

AGG

317+25.62
70.83' LT

R12

R13

R14

179 SQ FT MEDIAN REMOVAL

RELOCATE SIGN PANEL ASSEMBLY - TYPE A

MATCH LINE STA. 313+00
SEE SHEET NO.36

313 | 314 | 315+00 | 316 | 317 | 318

315+87.68
15.65' RT

317+82.66
3.54' RT

ONLY

ONLY

EX ROW

EX ROW

MATCH LINE STA. 318+20

ILLINOIS ROUTE 31

20 0 20
SCALE IN FEET

THE BARN NURSERY

JAMES R RAKOW ROAD

REMOVE SIGN PANEL ASSEMBLY - TYPE A

SAW CUT

143 SQ YD DRIVEWAY PAVEMENT REM

POWER POLE WITH LAMP AND TELEPHONE PEDESTAL TO BE RELOCATED (BY OTHERS)

POWER POLE WITH LAMP TO BE RELOCATED (BY OTHERS)

EX ROW

318+68.83
70.00' LT

FES TO BE REMOVED

71 FT COMB CURB GUTTER REM

REMOVE SIGN PANEL ASSEMBLY - TYPE A

137 FT FENCE REMOVAL

BIT

121 SQ YD PAVED SHLD REMOVAL

UG GAS TO BE RELOCATED (BY OTHERS)

UG TELEPHONE TO BE RELOCATED (BY OTHERS)

320+52.62
20.80' LT

320+82.66
20.84' LT

IMPROVEMENT ENDS
STA. 320+82.66

POWER POLE WITH LAMP AND TELEPHONE PEDESTAL TO BE RELOCATED (BY OTHERS)

1163 SQ FT MEDIAN REMOVAL

RELOCATE SIGN PANEL ASSEMBLY - TYPE A (2)

MATCH LINE STA. 318+20

319 | 320+00 | 321 | 322

320+82.66
3.16' RT

1001 SQ YD PAVEMENT REM

150 FT COMB CURB GUTTER REM

SAW CUT AT EXISTING JOINT

HANDHOLE TO BE ADJUSTED

EX ROW

CENTRAL PARK DRIVE

(R12) 82' - SS REM 18

(R13) 118' - SS REM 18

(R14) 110' - SS REM 18

NOTE

1. AGG SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. SEE ALIGNMENT, TIES AND BENCHMARKS SHEET NO. 18 FOR DETAILED ROW AND EASEMENT LOCATION.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = ...\07-Removals\2278NG_REM_05.dgn	USER NAME = kwh	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

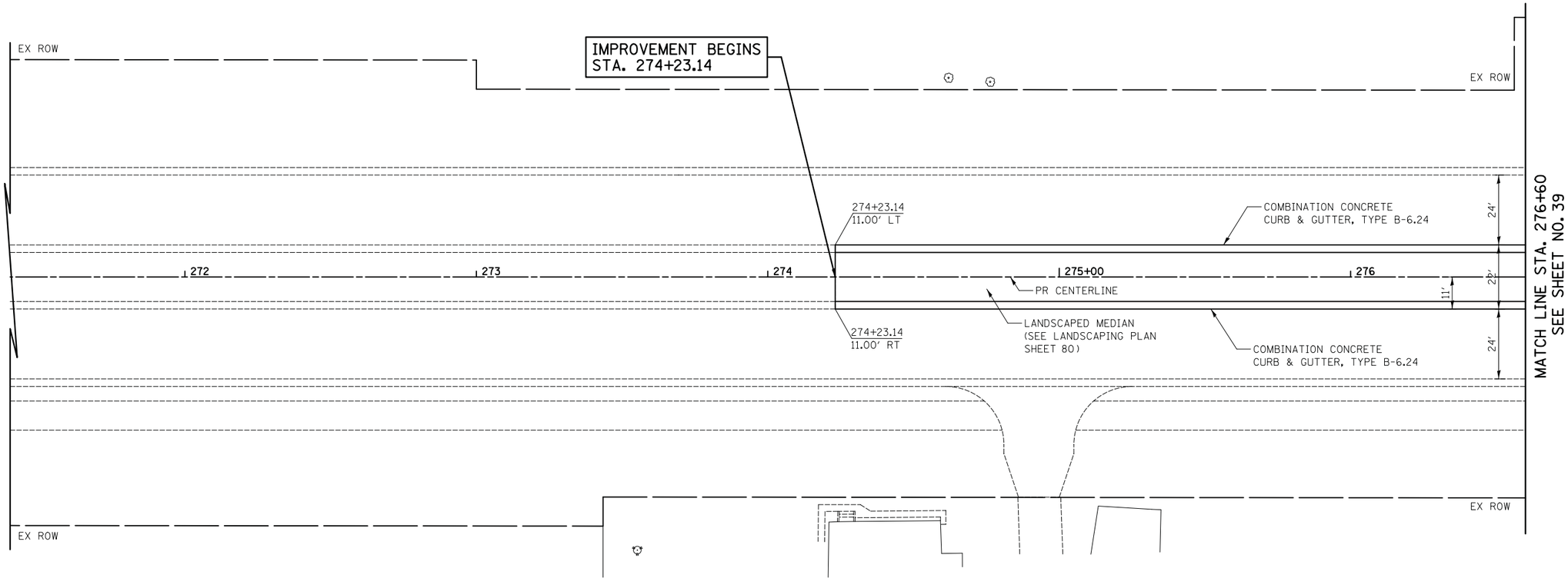
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 5 OF 5 SHEETS | STA. 313+00 TO STA. 320+82.66

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	37
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

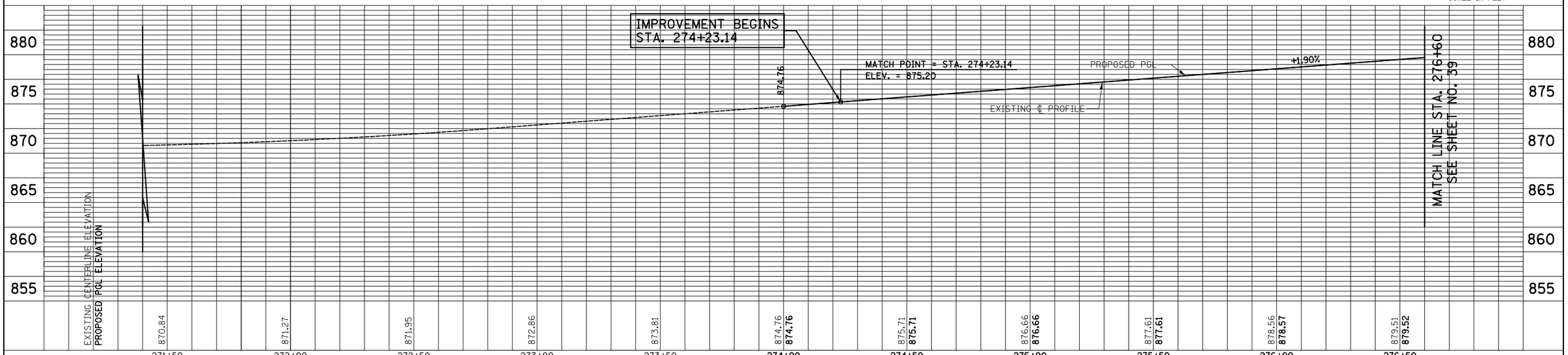
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



ILLINOIS ROUTE 31

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

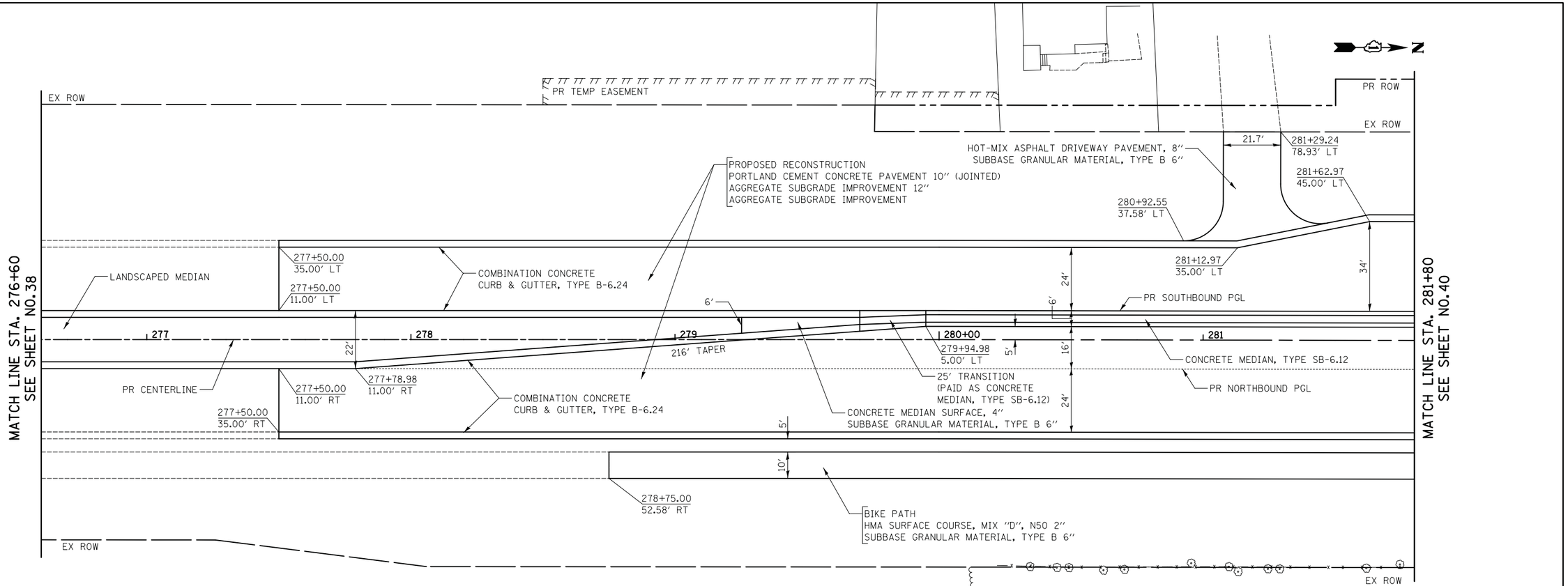
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 1 OF 10 SHEETS | STA. 274+23.14 TO STA. 276+60

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	38
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
QUANTITIES CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
QUANTITIES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

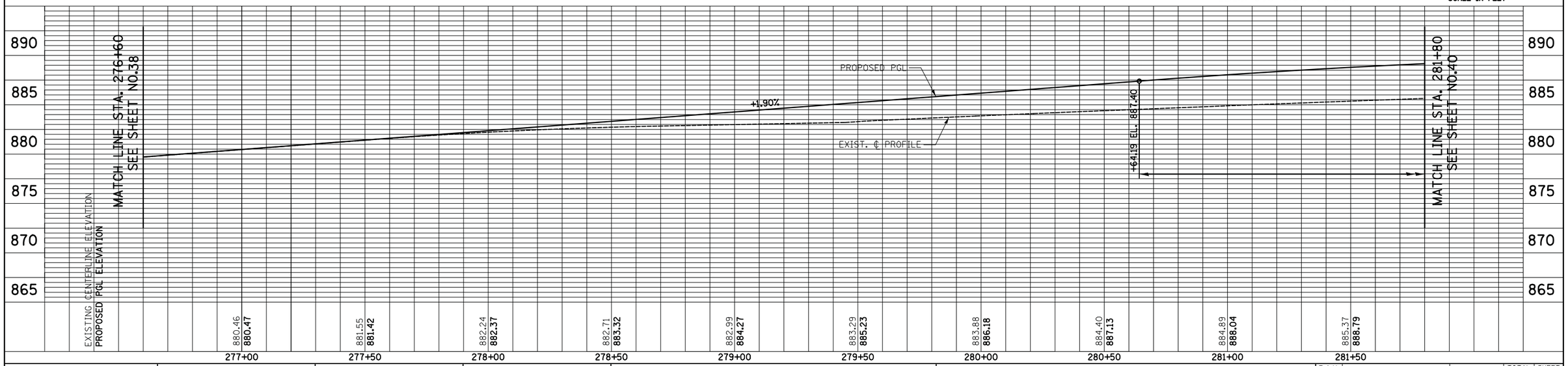


NOTES:

1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

ILLINOIS ROUTE 31



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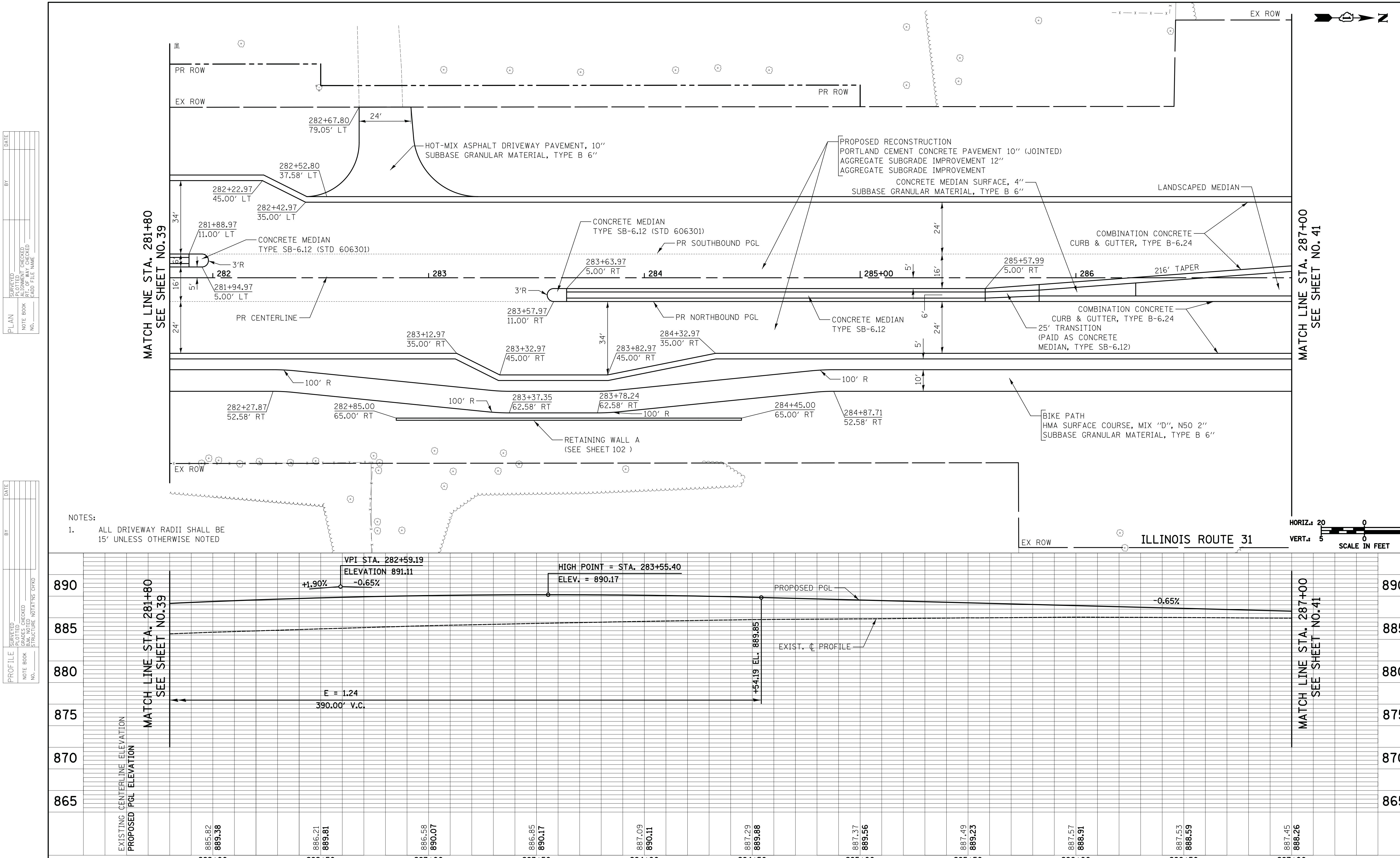
		DRAWN - DTE	REVISED -				
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: 1" = 20'	SHEET NO. 2 OF 10 SHEETS	STA. 271+60 TO STA. 281+80
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	39
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

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	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

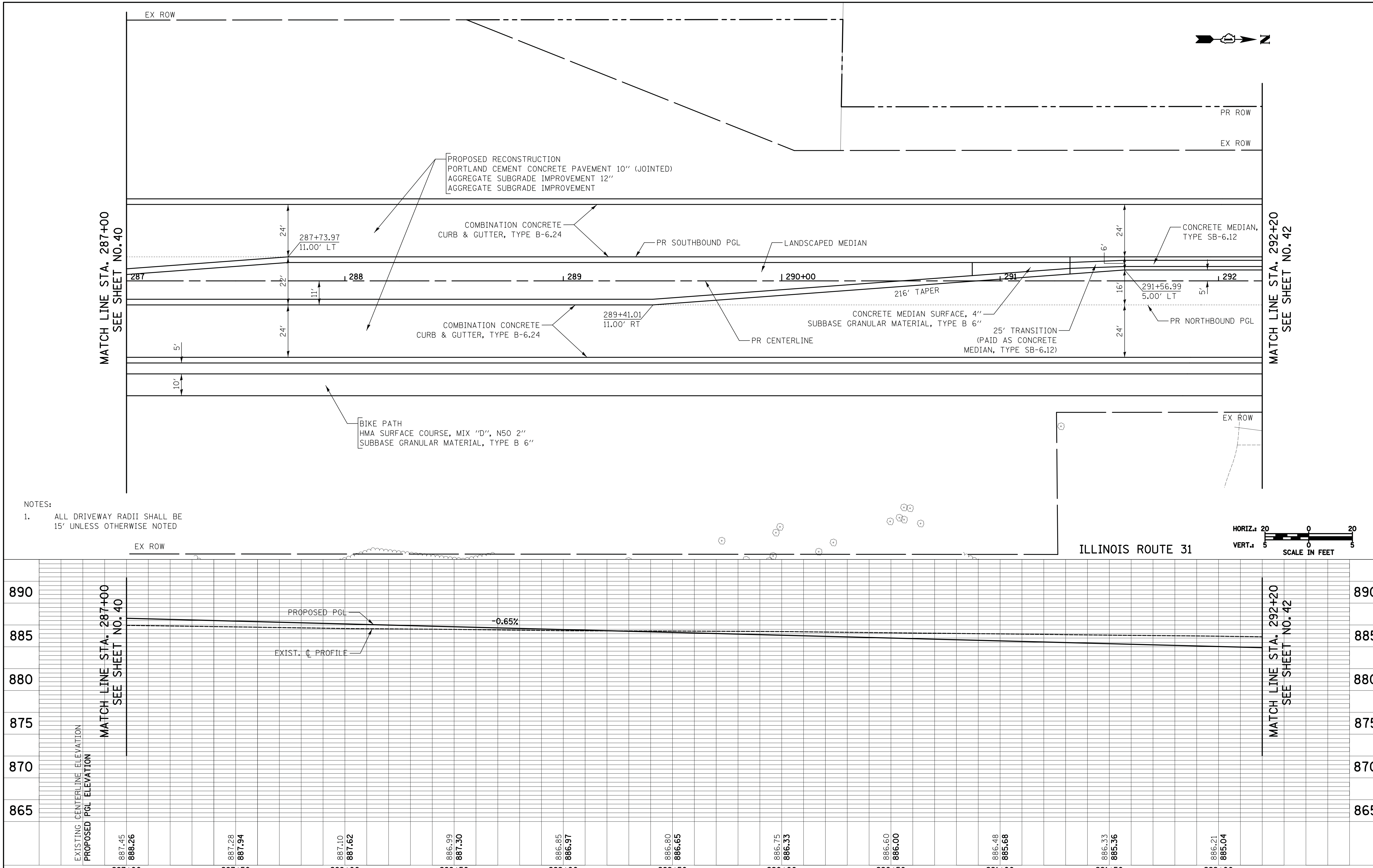
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 3 OF 10 SHEETS | STA. 281+80 TO STA. 287+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	40

CONTRACT NO. 60V72

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



EX ROW
PR ROW
EX ROW
PROPOSED RECONSTRUCTION
PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
AGGREGATE SUBGRADE IMPROVEMENT 12"
AGGREGATE SUBGRADE IMPROVEMENT
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
PR SOUTHBOUND PGL
LANDSCAPED MEDIAN
CONCRETE MEDIAN, TYPE SB-6.12
287+73.97
11.00' LT
287
288
289
290+00
291
292
216' TAPER
291+56.99
5.00' LT
289+41.01
11.00' RT
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
PR CENTERLINE
CONCRETE MEDIAN SURFACE, 4"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
25' TRANSITION (PAID AS CONCRETE MEDIAN, TYPE SB-6.12)
PR NORTHBOUND PGL
24'
22'
11'
24'
5'
10'
6'
24'
16'
5'
24'
BIKE PATH
HMA SURFACE COURSE, MIX "D", N50 2"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
MATCH LINE STA. 287+00
SEE SHEET NO.40
MATCH LINE STA. 292+20
SEE SHEET NO. 42
N
EX ROW
NOTES:
1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED
EX ROW
ILLINOIS ROUTE 31
HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET
890
885
880
875
870
865
PROPOSED PGL
-0.65%
EXIST. ℄ PROFILE
MATCH LINE STA. 287+00
SEE SHEET NO.40
MATCH LINE STA. 292+20
SEE SHEET NO. 42
EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION
887.45 888.26
887.28 887.94
887.10 887.62
886.99 887.30
886.85 886.97
886.80 886.65
886.75 886.33
886.60 886.00
886.48 885.68
886.33 885.36
886.21 885.04
287+00
287+50
288+00
288+50
289+00
289+50
290+00
290+50
291+00
291+50
292+00

FILE NAME = ...\2278NG_P&P_04.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PLAN AND PROFILE**
		DRAWN - DTE	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: 1" = 20' SHEET NO. 4 OF 10 SHEETS STA. 287+00 TO STA. 292+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	41
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROPOSED RECONSTRUCTION
PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
AGGREGATE SUBGRADE IMPROVEMENT 12"
AGGREGATE SUBGRADE IMPROVEMENT

PR TEMP EASEMENT

PR ROW

EX ROW

32'

296+19.01
81.22' LT

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.24

295+72.01
37.58' LT

293+34.97
44.96' LT

293+84.97
45.00' LT

294+04.98
35.00' LT

292+84.98
35.00' LT

MATCH LINE STA. 292+20
SEE SHEET NO. 41

CONCRETE MEDIAN,
TYPE SB-6.12

24'

6'

34'

293+56.99
11.00' LT

3'R

PR SOUTHBOUND PGL

295+03.01
5.00' RT

293

294

295+00

296

297

297+03.01
5.00' RT

5'

16'

293+56.99
5.00' LT

PR CENTERLINE

CONCRETE MEDIAN,
TYPE SB-6.12
(STD 606301)

295+03.01
11.00' RT

PR NORTHBOUND PGL

CONCRETE MEDIAN,
TYPE SB-6.12

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.24

294+55.03
35.00' RT

295+75.03
35.00' RT

294+75.04
45.00' RT

295+25.04
44.96' RT

MATCH LINE STA. 297+40
SEE SHEET NO. 43

5'

10'

100'R

20'

100'R

100'R

100'R

EX ROW

293+69.95
52.58' RT

296+29.77
52.58' RT

25' TRANSITION
(PAID AS CONCRETE
MEDIAN, TYPE SB-6.12)

294+79.47
62.58' RT

295+20.38
62.54' RT

BIKE PATH
HMA SURFACE COURSE, MIX "D", N50 2"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

PR ROW

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

NOTES:

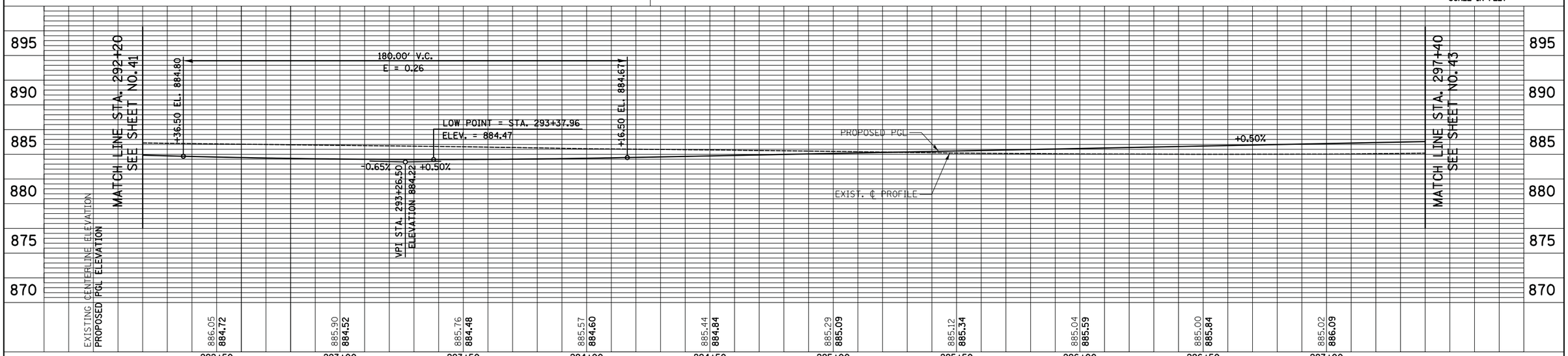
1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

ILLINOIS ROUTE 31

PLAN
SURVEYED
PLOTTED
CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

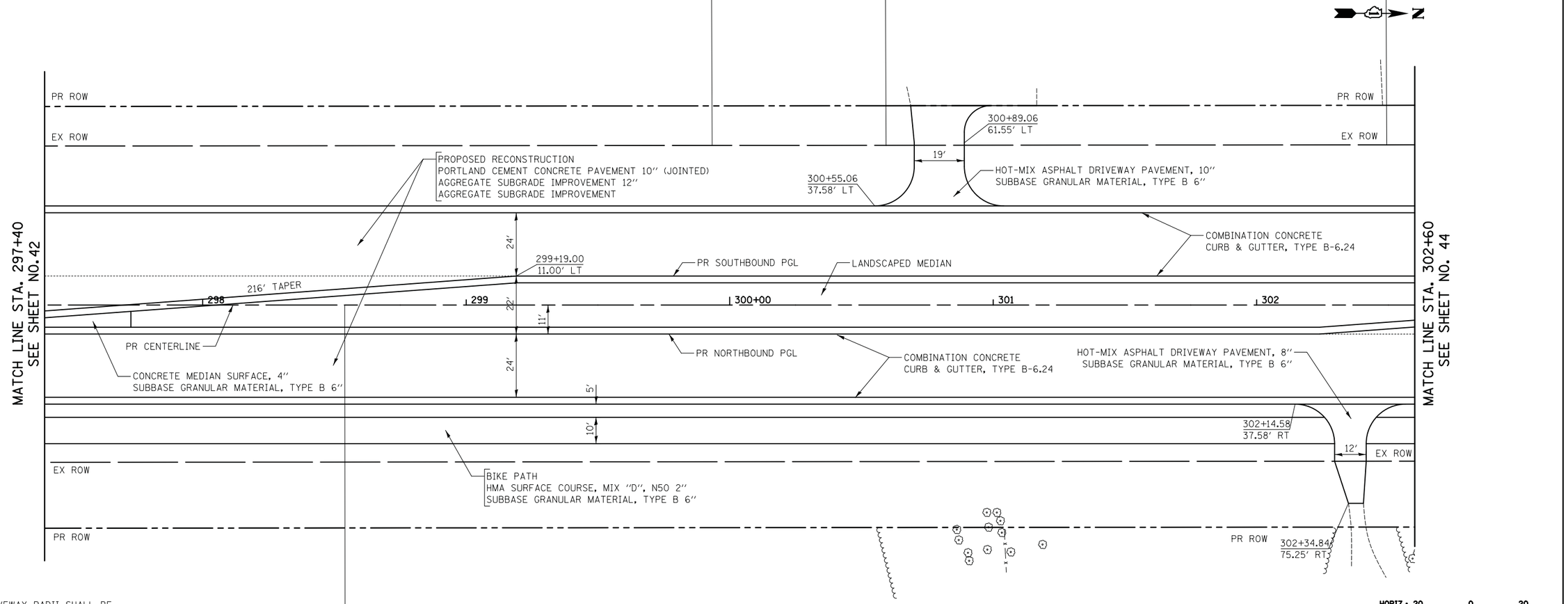
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 5 OF 10 SHEETS | STA. 292+20 TO STA. 297+40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	42
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

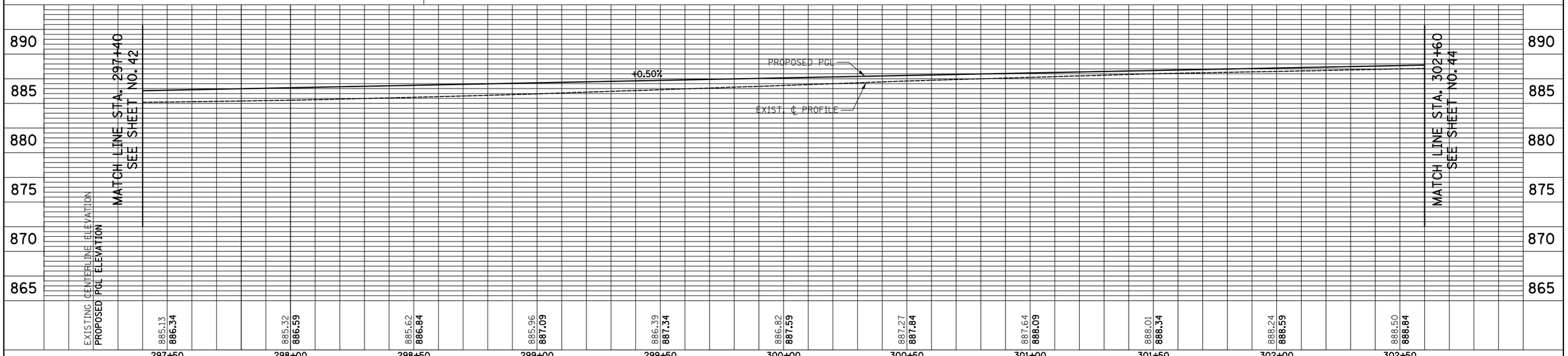
PROFILE — SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE



NOTES:

1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

ILLINOIS ROUTE 31



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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 6 OF 10 SHEETS | STA. 297+40 TO STA. 302+60

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	43
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
SUBBASE GANULAR MATERIAL, TYPE B 6"

303+70.47
78.87' LT

CONCRETE CURB, TYPE B

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

PR ROW
EX ROW
19'
304+41.06
57.58' LT
24'
305+42.08
57.58' LT
24.75'
10'R
20'
307+25.99
59.58' LT
303+36.59
37.58' LT
304+02.11
37.58' LT
305+03.33
37.58' LT
CONCRETE CURB, TYPE B
306+18.00
45.00' LT
306+68.00
45.00' LT
306+88.00
35.00' LT
307+40.99
37.58' LT

MATCH LINE STA. 302+60
SEE SHEET NO. 43

COMBINATION CONCRETE CURB
& GUTTER, TYPE B-6.24
LANDSCAPED MEDIAN
24'
CONCRETE CURB, TYPE B
24'
CONCRETE MEDIAN
TYPE SB-6.12
305+68.00
35.00' LT
CONCRETE MEDIAN
TYPE SB-6.12
306+60.00
11.00' LT
PR SOUTHBOUND PGL
6'
303
304
305+00
306
307
216' TAPER
11'
22'
306+15.00
5.00' LT
5'
16'
5'
3'R
CONCRETE MEDIAN
TYPE SB-6.12 (STD 606301)
307+66.00
5.00' RT
306+60.00
5.00' LT
3'R
25' TRANSITION
(PAID AS CONCRETE
MEDIAN, TYPE SB-6.12)
PR CENTERLINE
PR NORTHBOUND PGL
307+66.00
11.00' RT
307+38.00
35.00' LT
COMBINATION CONCRETE CURB
& GUTTER, TYPE B-6.24
24'
24'
CONCRETE MEDIAN SURFACE, 4"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
5'
307+58.00
45.00' LT
10'
100'R
EX ROW
EX ROW
306+52.91
52.58' LT
100'R
BIKE PATH
HMA SURFACE COURSE, MIX "D", N50 2"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
307+62.39
62.58' LT
PR ROW
PR ROW
PROPOSED RECONSTRUCTION
PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
AGGREGATE SUBGRADE IMPROVEMENT 12"
AGGREGATE SUBGRADE IMPROVEMENT

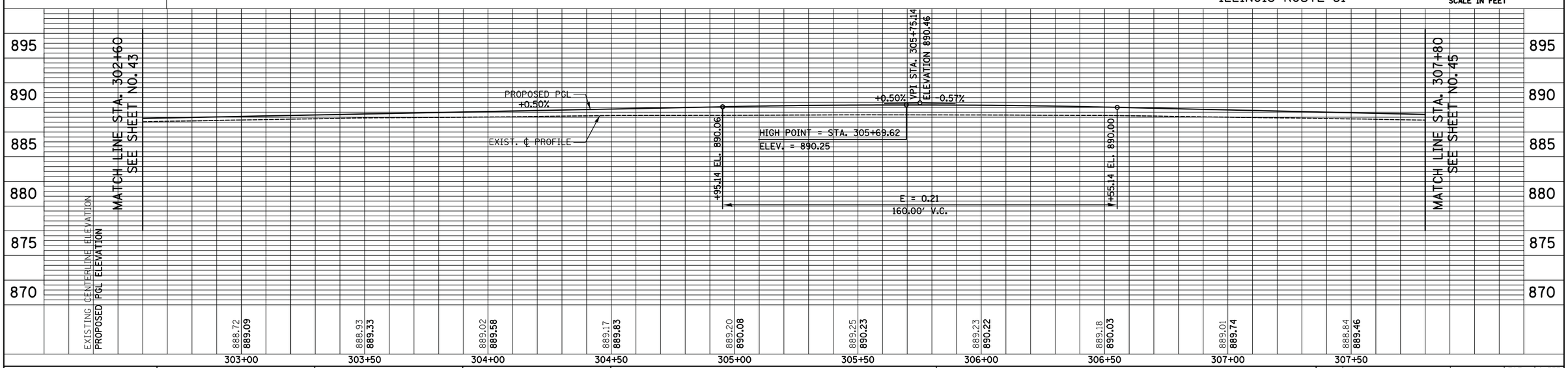
MATCH LINE STA. 307+80
SEE SHEET NO. 45

NOTES:
1. ALL DRIVEWAY RADII SHALL BE
15' UNLESS OTHERWISE NOTED

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

ILLINOIS ROUTE 31

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
BM. NOTED
STRUCTURE NO'S/NS CHK'D
NOTE BOOK
NO.
BY
DATE



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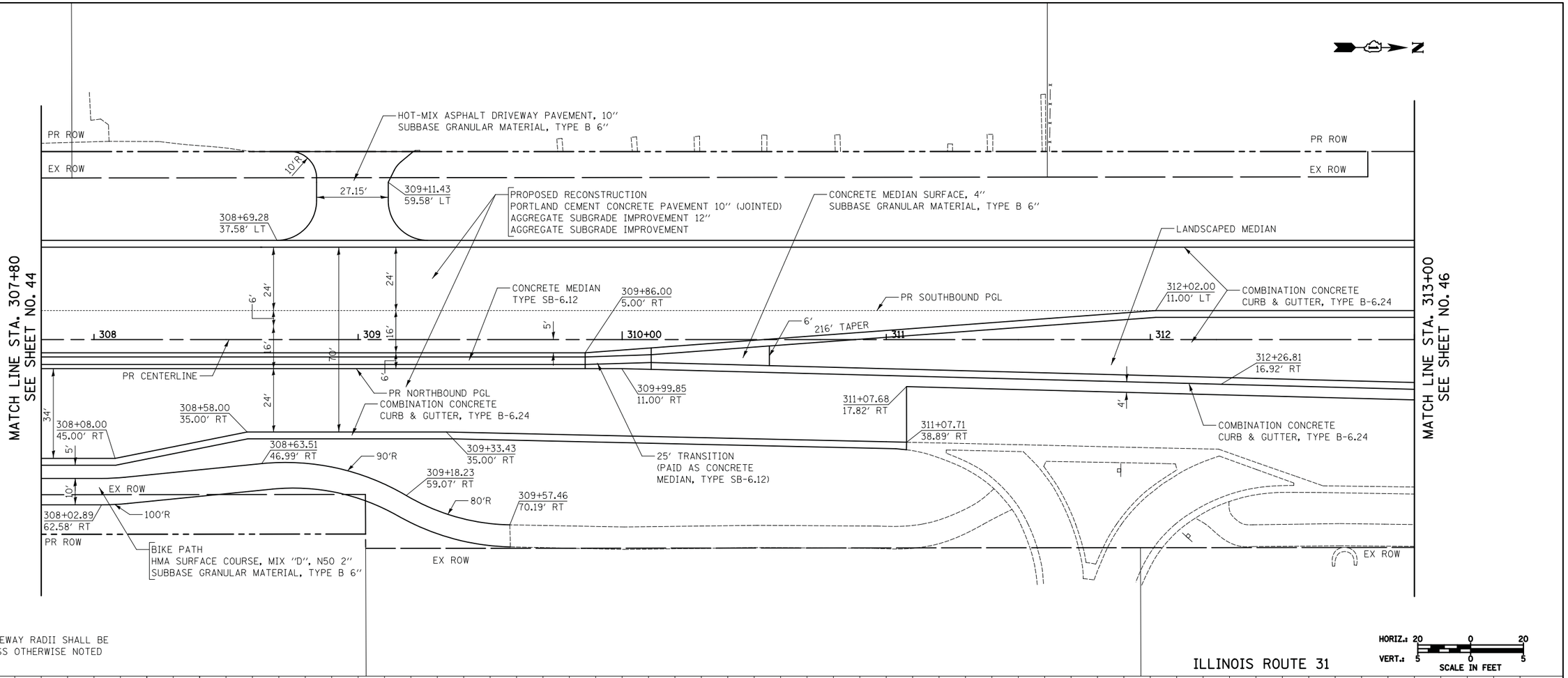
		DRAWN - DTE	REVISED -			3887	18W&RS-5 (12)	MCHENRY	151	44
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 60V72		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: 1" = 20' SHEET NO. 7 OF 10 SHEETS STA. 302+60 TO STA. 307+80	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

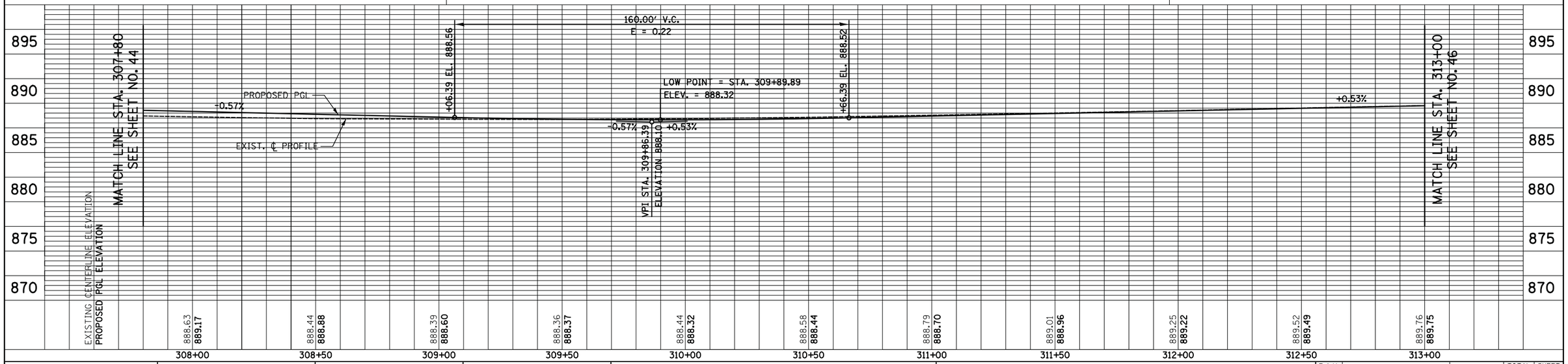


NOTES:

1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

ILLINOIS ROUTE 31

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET



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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

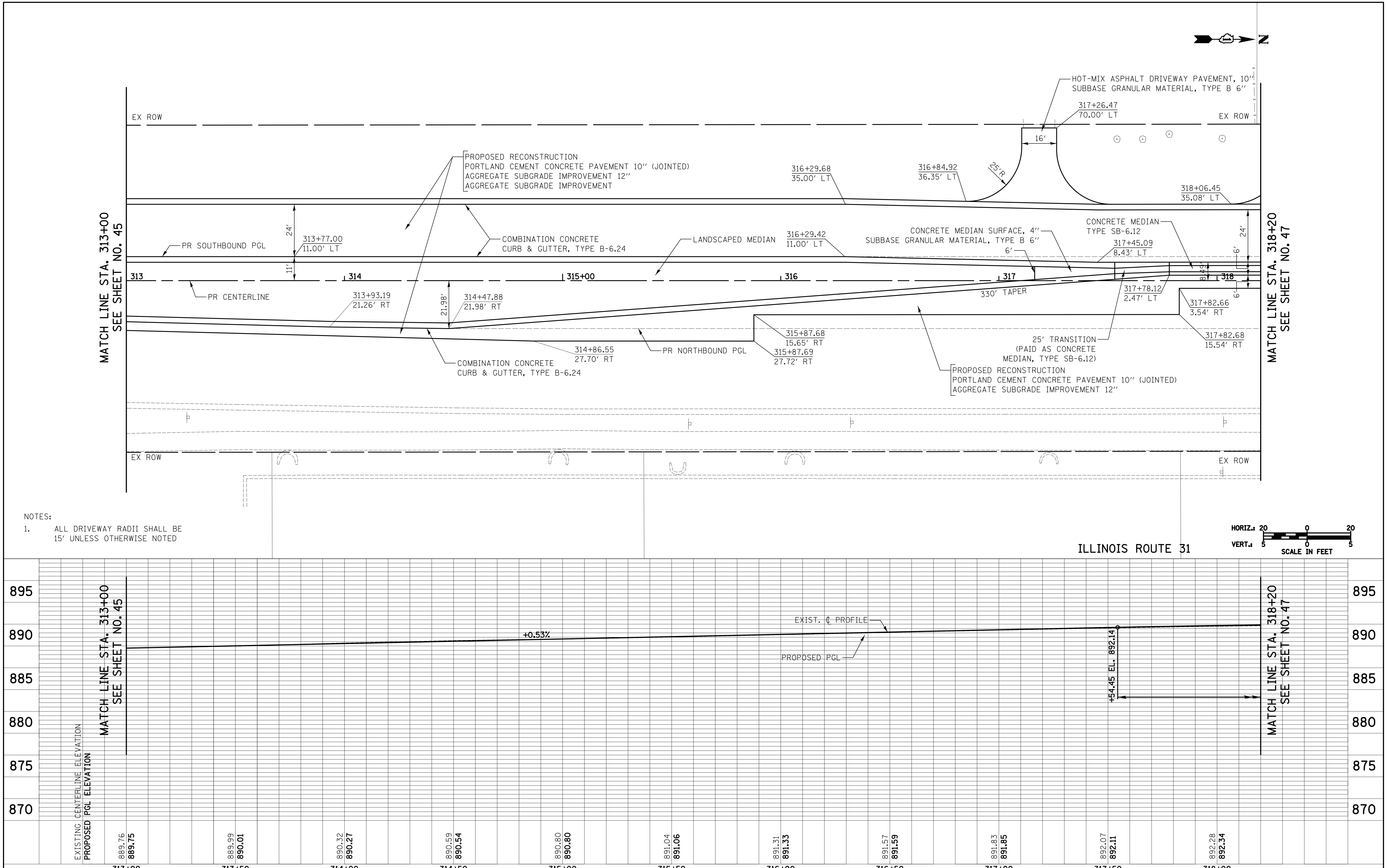
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 8 OF 10 SHEETS | STA. 307+80 TO STA. 313+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	45
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	ALIGNMENT CHECKED
	R/T. OF WAY CHECKED
	CADD FILE NAME
BY	
DATE	

PROFILE	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	GRADES CHECKED
	B.M. NOTED
	STRUCTURE NOTATIONS CHKD
BY	
DATE	



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	PLOT SCALE = 20.0000 ′ / in.	CHECKED - GAB	REVISED -		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: 1″ = 20′ · SHEET NO. 9 OF 10 SHEETS · STA. 313+00 TO STA. 318+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	46

CONTRACT NO. 60V72

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

JAMES R RAKOW ROAD

EX ROW

35'

318+66.42
70.00' LT

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

25' R

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.24

320+00.00
43.12' LT

320+52.62
43.10' LT

319+00.00
32.62' LT

320+52.62
20.80' LT

320+82.66
20.84' LT

IMPROVEMENT ENDS
STA. 320+82.66

CONCRETE MEDIAN
TYPE SB-6.12

8.59'

24'

6'

34.3'

12'

319

320+00

321

322

PR CENTERLINE

6'

320+82.66
3.16' RT

320+68.15
2.82' LT

PROPOSED RECONSTRUCTION
PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
AGGREGATE SUBGRADE IMPROVEMENT 12"
AGGREGATE SUBGRADE IMPROVEMENT

CONCRETE MEDIAN
TYPE SB-6.12 (STD 606301)

MATCH LINE STA. 318+20
SEE SHEET NO. 46

EX ROW

NOTES:

1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

CENTRAL PARK DRIVE

ILLINOIS ROUTE 31

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.

IMPROVEMENT ENDS
STA. 320+82.66

VPI STA. 318+79.45
ELEVATION 892.79

+0.53%

-0.35%

892.20

+04.45 EL. 892.36

EXIST. ℄ PROFILE

250.00' V.C.

MATCH LINE STA. 318+20
SEE SHEET NO. 46

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

892.43	892.48	892.47	892.53	892.47	892.50	892.41	892.37	892.27	892.20	891.98	891.64	891.21	890.72	890.15

895 890 885 880 875 870

318+50 319+00 319+50 320+00 320+50 321+00 321+50 322+00 322+50 323+00

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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 10 OF 10 SHEETS | STA. 318+20 TO STA. 320+82.66

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	47
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

EROSION CONTROL BLANKET AND
TEMPORARY EROSION CONTROL SEEDING

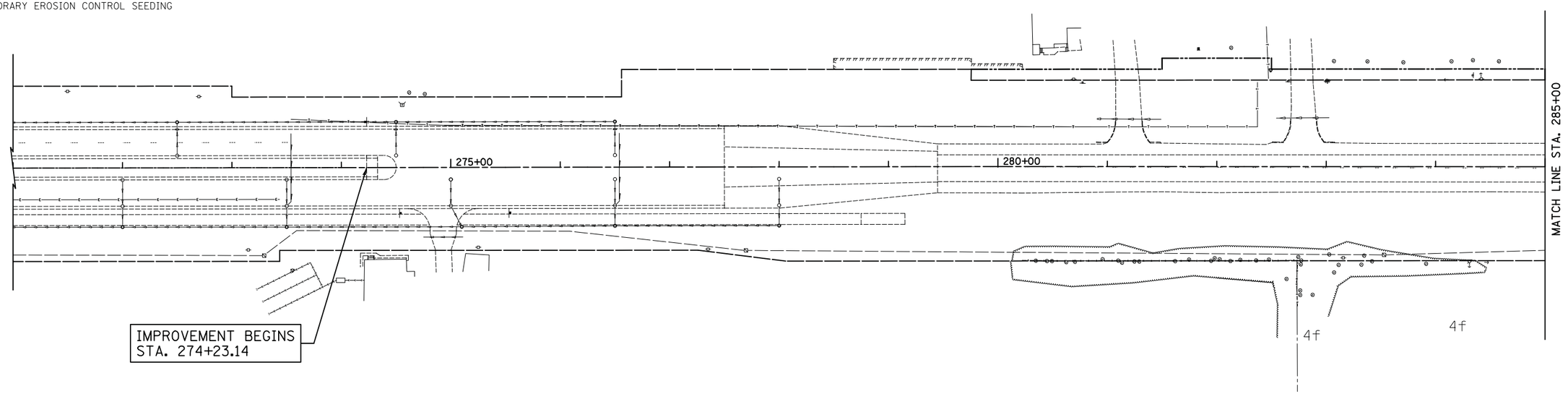
MULCH, METHOD 2 AND
TEMPORARY EROSION CONTROL SEEDING

PERIMETER EROSION BARRIER PLACED
AROUND OPEN GRATE STRUCTURE AND
END SECTION IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS

N



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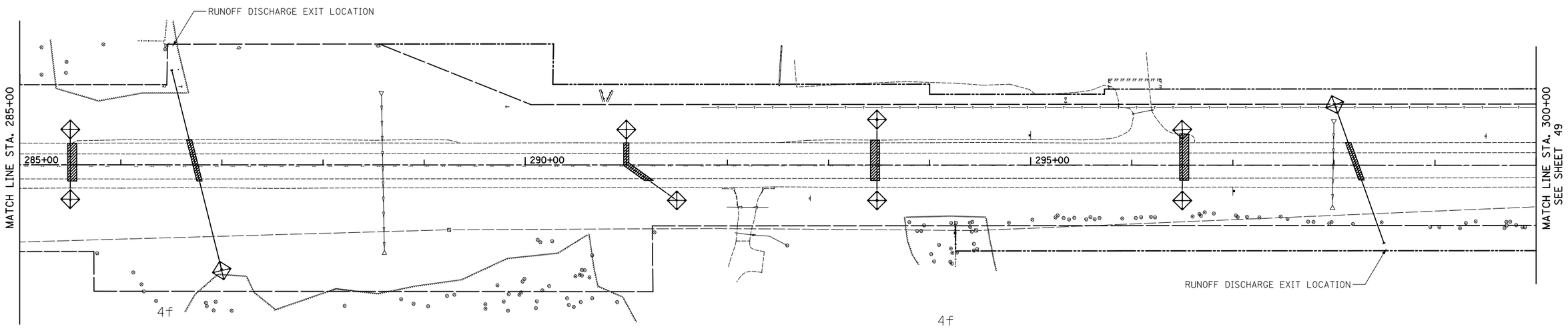

50 0 50
SCALE IN FEET

ILLINOIS ROUTE 31

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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – PRESTAGE 1

SCALE: 1" = 50' | SHEET NO. 1 OF 6 SHEETS | STA. 274+23.14 TO STA. 300+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	48
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

EROSION CONTROL BLANKET AND
TEMPORARY EROSION CONTROL SEEDING

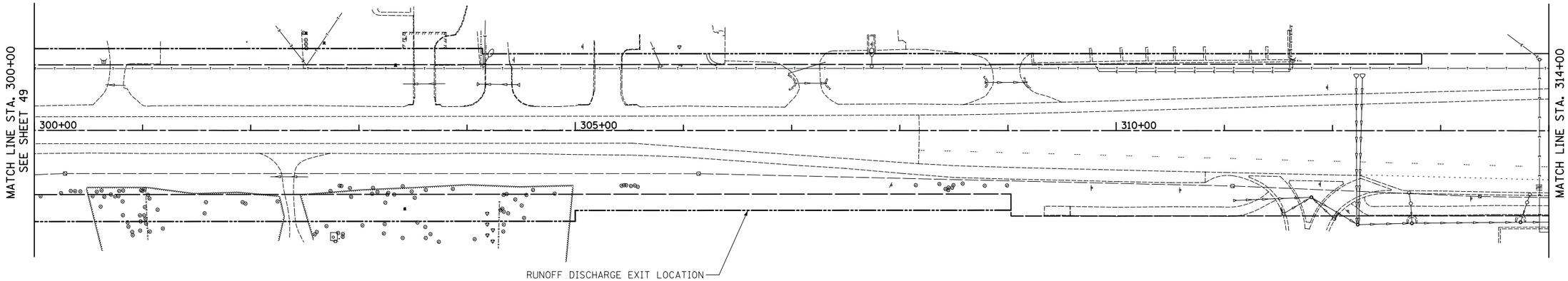
MULCH, METHOD 2 AND
TEMPORARY EROSION CONTROL SEEDING

PERIMETER EROSION BARRIER PLACED
AROUND OPEN GRATE STRUCTURE AND
END SECTION IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS

N



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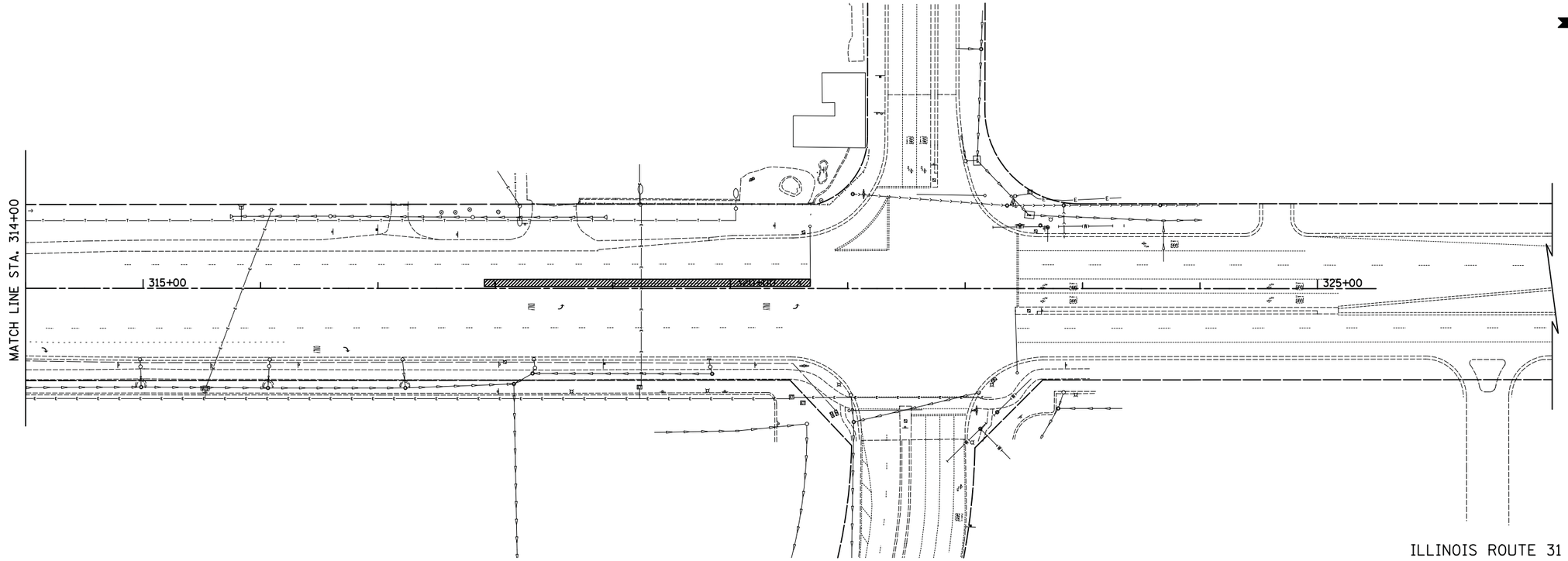

ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

FILE NAME = ...\2278NG_ERO_PRE_S1_02.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – PRESTAGE 1

SCALE: 1'' = 50' | SHEET NO. 2 OF 6 SHEETS | STA. 300+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	49
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING

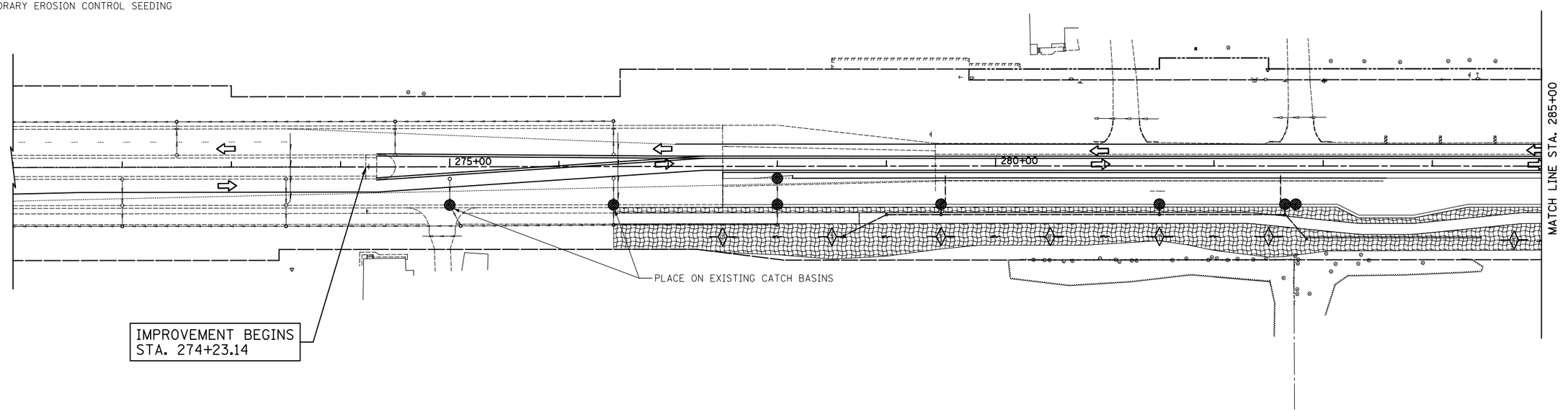
MULCH, METHOD 2 AND TEMPORARY EROSION CONTROL SEEDING

PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE AND END SECTION IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS

N



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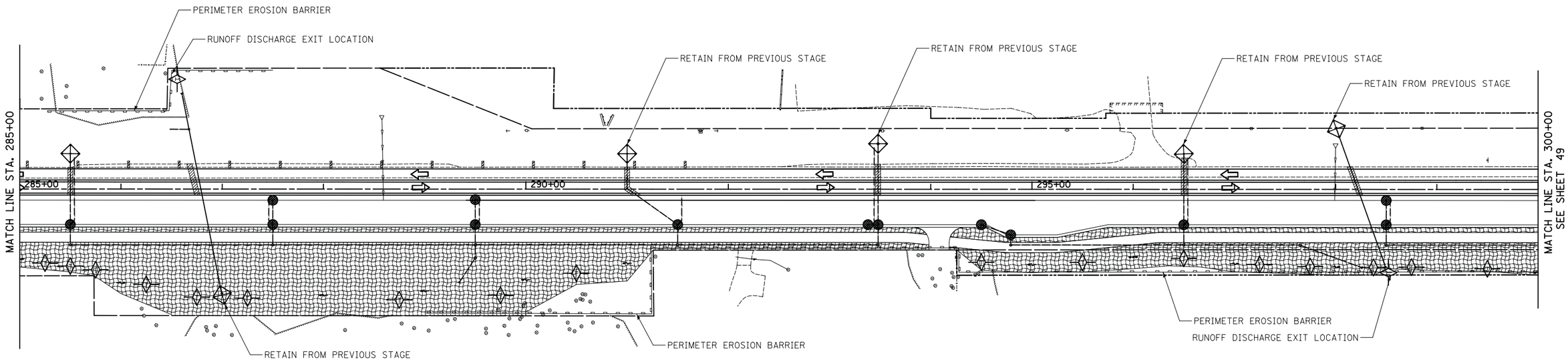

50 0 50
SCALE IN FEET

ILLINOIS ROUTE 31

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	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – STAGE 1A & B

SCALE: 1" = 50' | SHEET NO. 3 OF 6 SHEETS | STA. 274+23.14 TO STA. 300+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	50
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

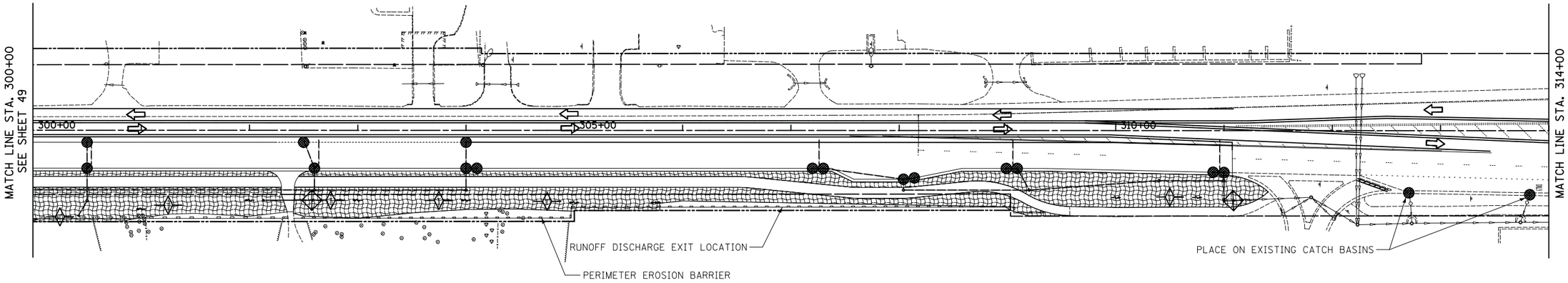
EROSION CONTROL BLANKET AND
TEMPORARY EROSION CONTROL SEEDING

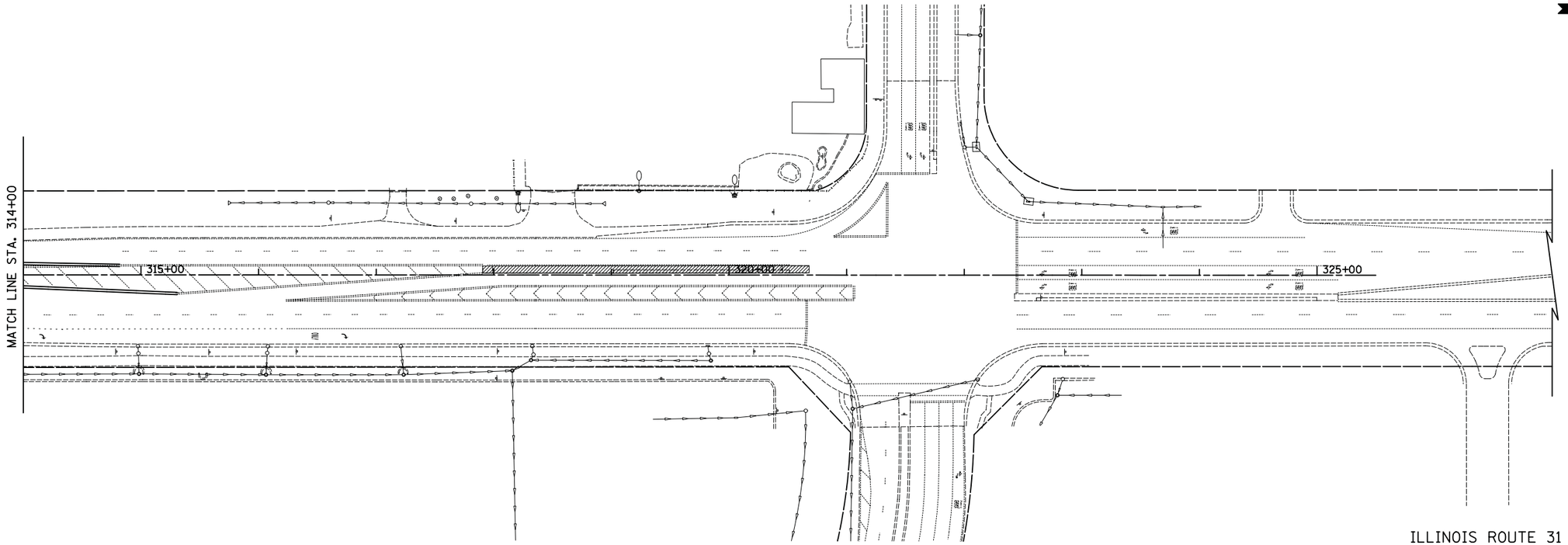
MULCH, METHOD 2 AND
TEMPORARY EROSION CONTROL SEEDING

PERIMETER EROSION BARRIER PLACED
AROUND OPEN GRATE STRUCTURE AND
END SECTION IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS





ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – STAGE 1A & B

SCALE: 1" = 50' | SHEET NO. 4 OF 6 SHEETS | STA. 300+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	51
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

EROSION CONTROL BLANKET AND
TEMPORARY EROSION CONTROL SEEDING

MULCH, METHOD 2 AND
TEMPORARY EROSION CONTROL SEEDING

PERIMETER EROSION BARRIER PLACED
AROUND OPEN GRATE STRUCTURE AND
END SECTION IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS

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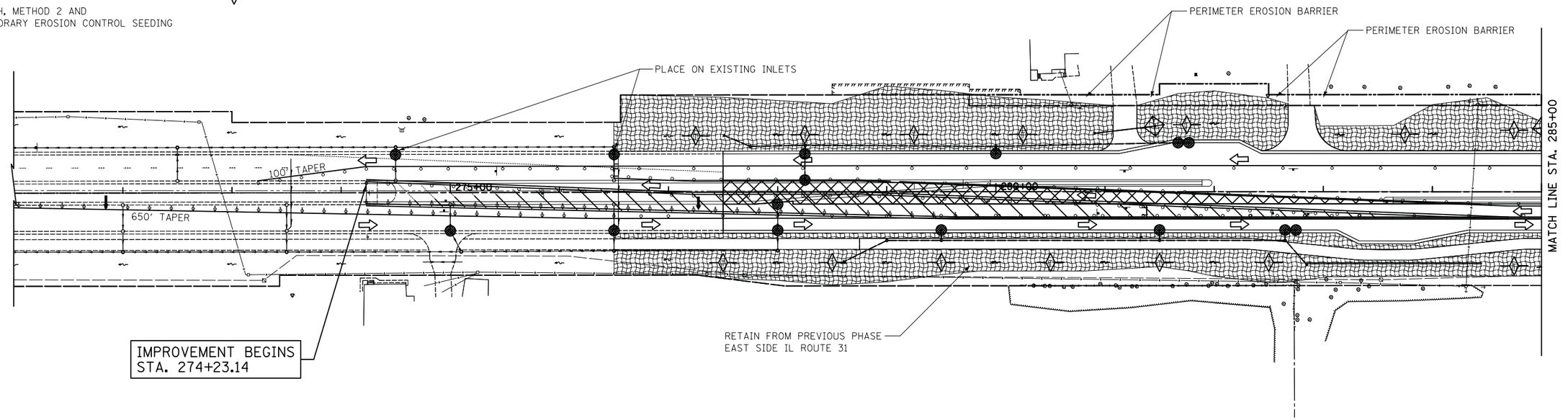

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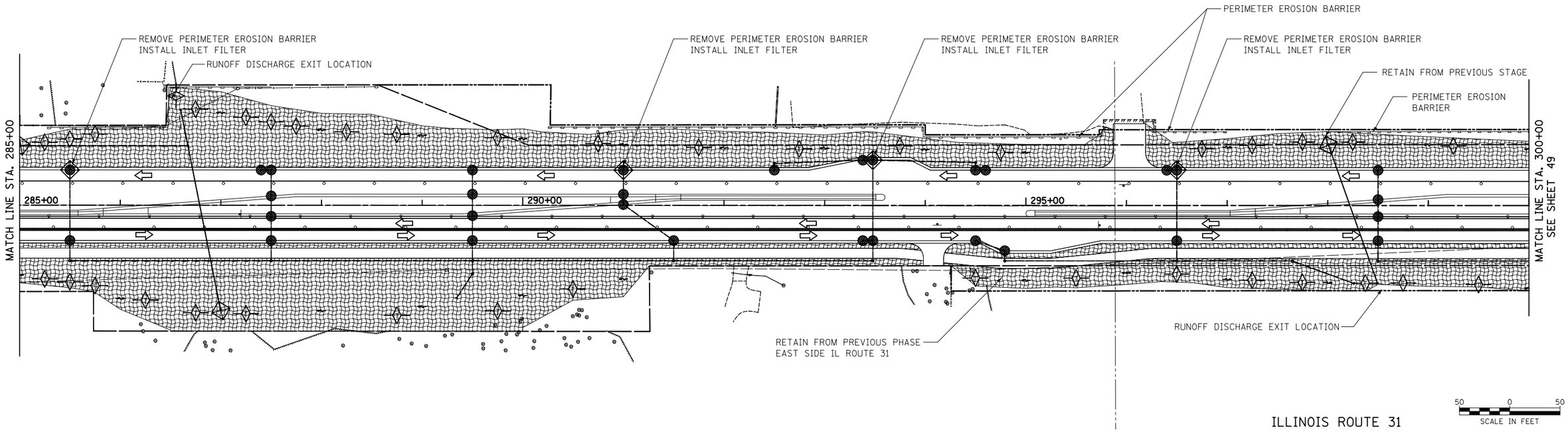

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SCALE IN FEET

ILLINOIS ROUTE 31

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	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – STAGE 2 & 3

SCALE: 1" = 50' | SHEET NO. 5 OF 6 SHEETS | STA. 274+23.14 TO STA. 300+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	52
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY PAVEMENT
- EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 2 AND TEMPORARY EROSION CONTROL SEEDING
- PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE AND END SECTION IN ACCORDANCE WITH 280001-05
- INLET FILTERS
- TEMPORARY DITCH CHECKS

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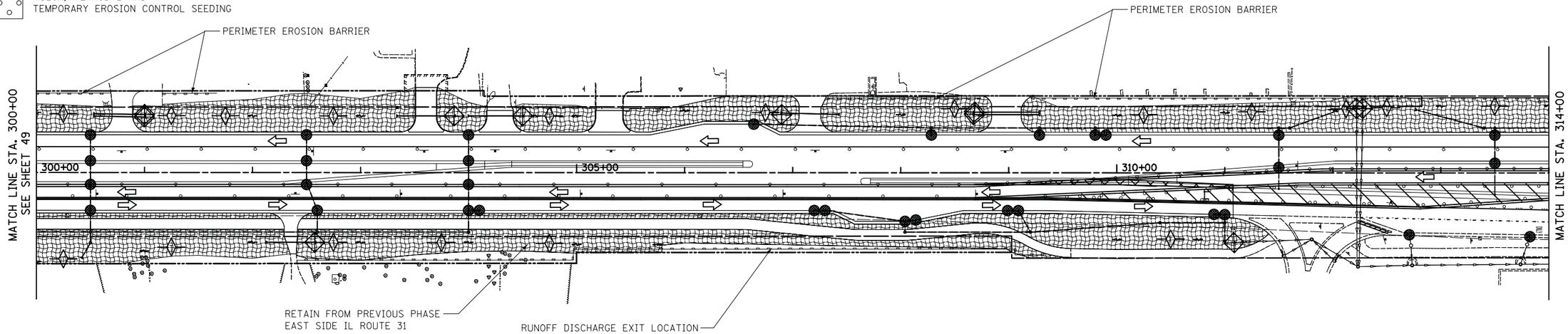

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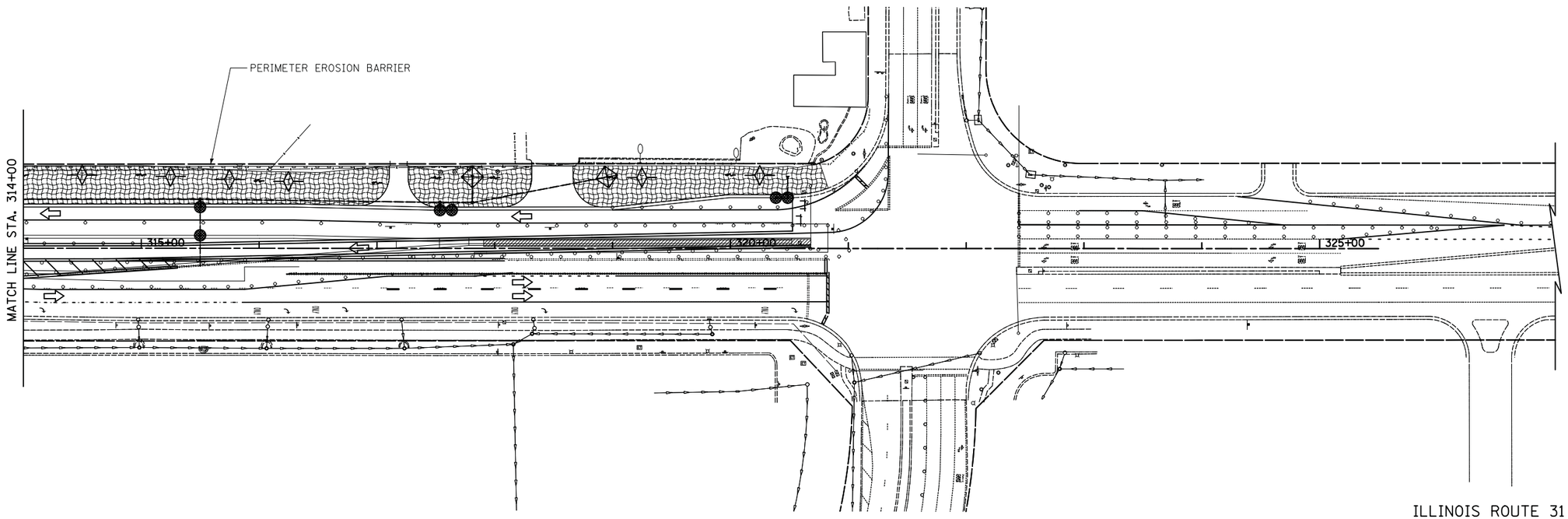

50 0 50
SCALE IN FEET

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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

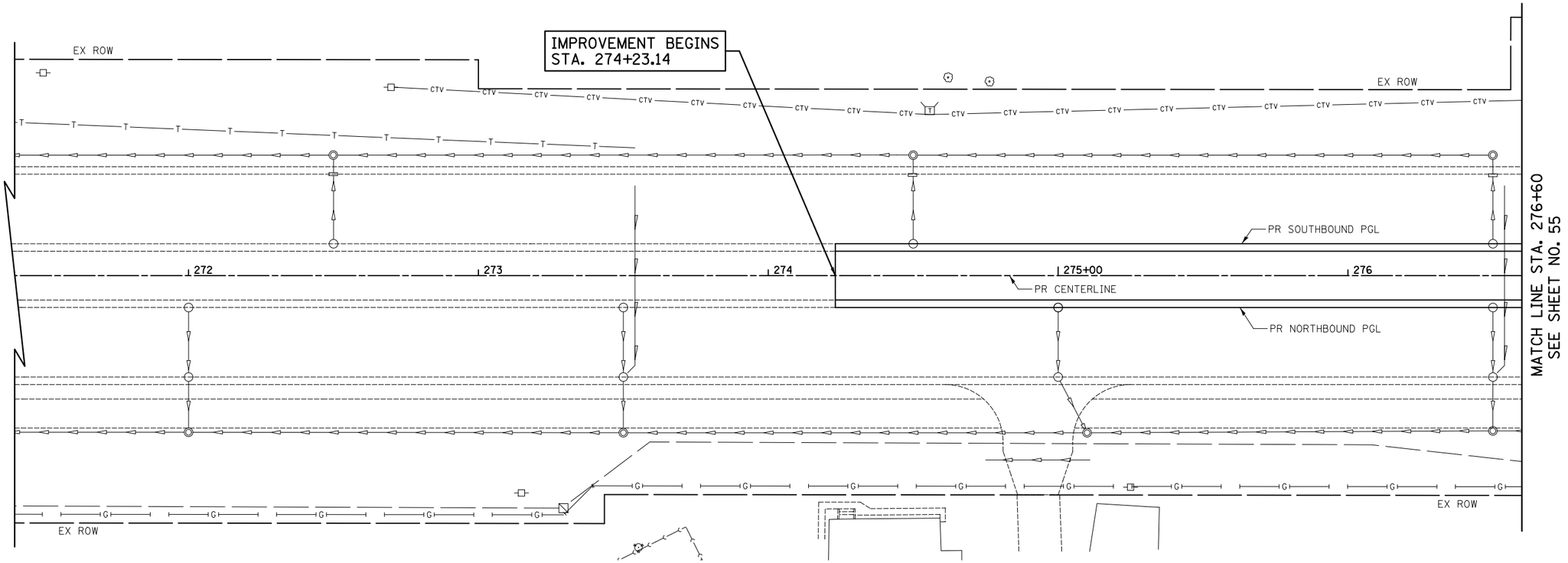
EROSION AND SEDIMENT CONTROL – STAGE 2 & 3

SCALE: 1" = 50' | SHEET NO. 6 OF 6 SHEETS | STA. 300+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
117	96-00209-00-PV	MCHENRY	151	53
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-4064(003)		

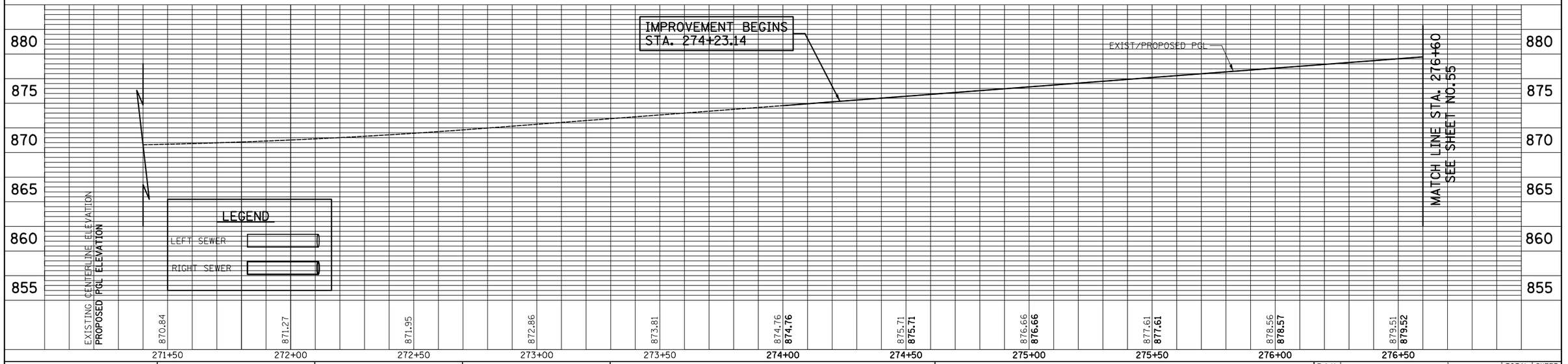
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
BM. NOTED
STRUCTURE NO'S/ATHS CHKD
NOTE BOOK
NO.
BY
DATE



HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

ILLINOIS ROUTE 31



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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 13 SHEETS | STA. 274+23.14 | TO STA. 276+60

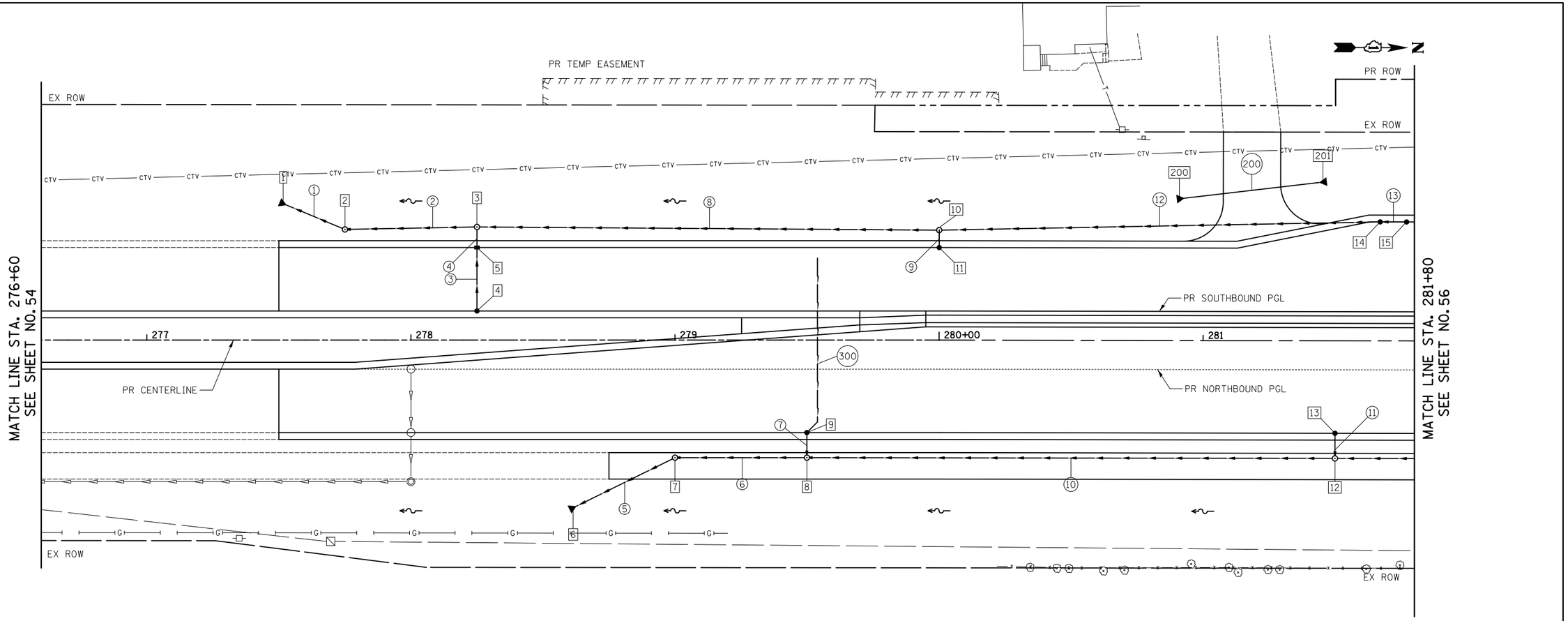
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	54
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		PROFILE CHECKED
		BM. NOTED
		STRUCTURE NO'S/ITHS CHKD
		NOTE BOOK
		NO.

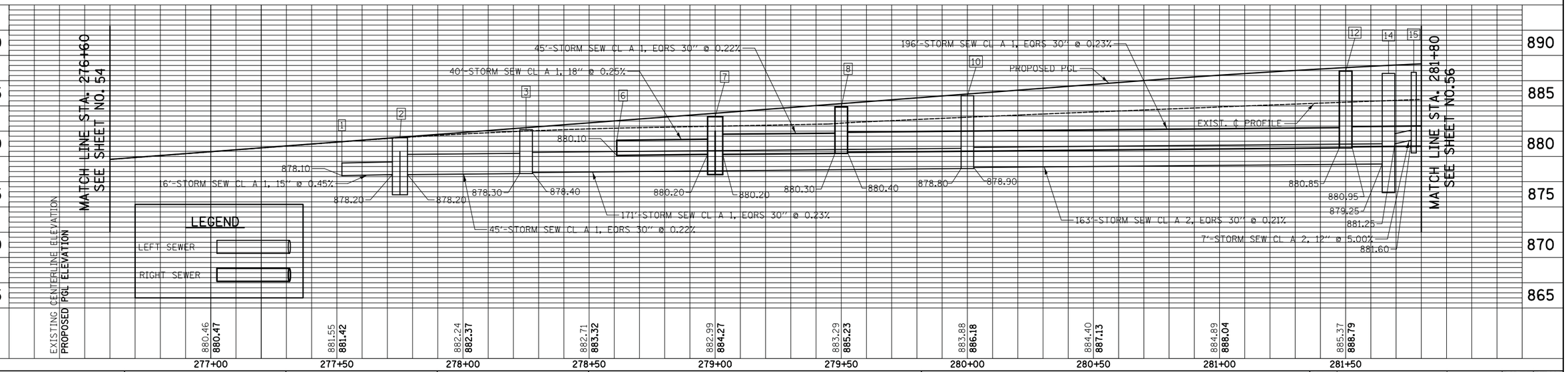


NOTES:

1. ALL DRIVEWAY RADII SHALL BE 15' UNLESS OTHERWISE NOTED

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

ILLINOIS ROUTE 31



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		DRAWN - PML	REVISED -		
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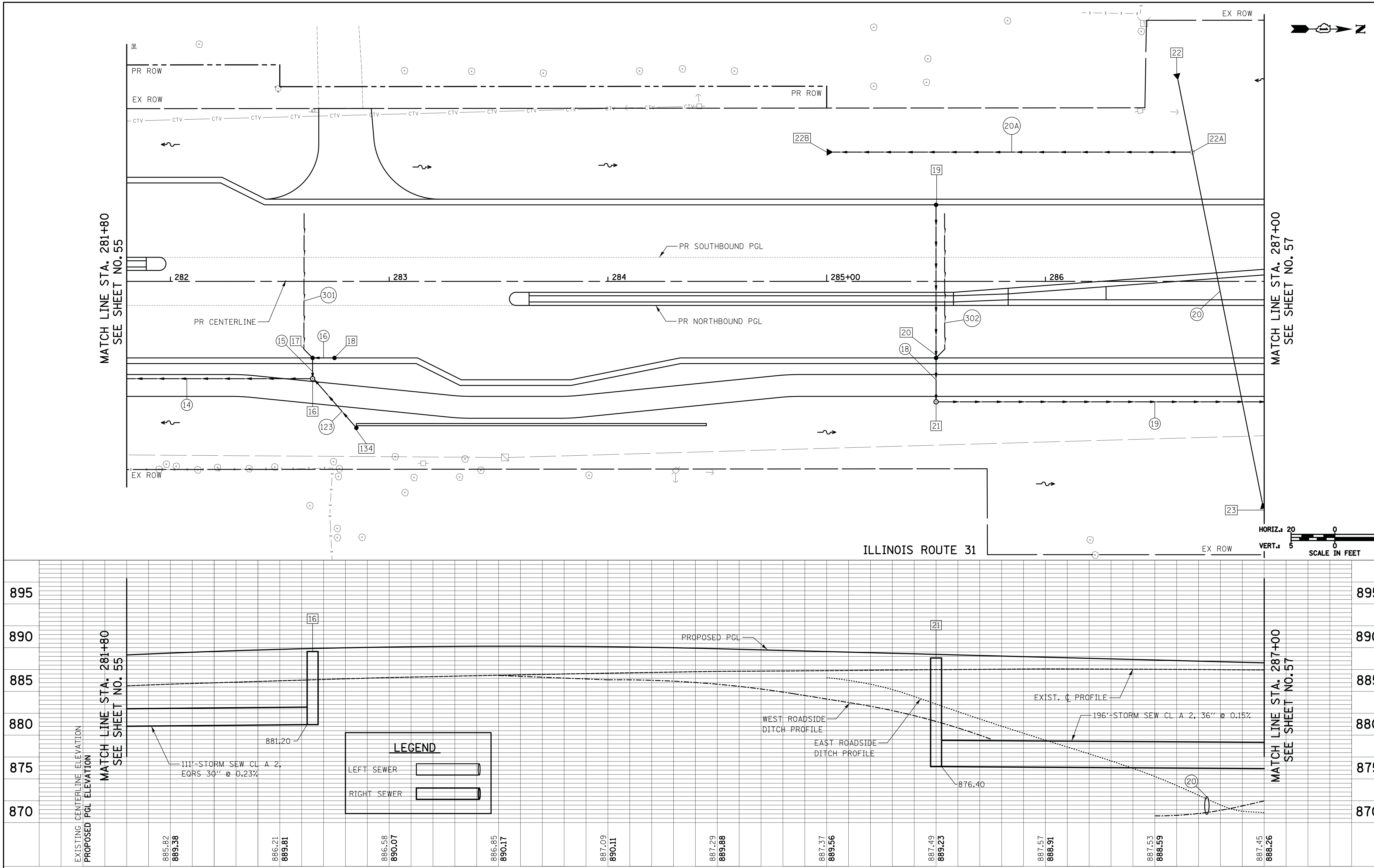
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	55
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
NOTE BOOK
NO.
BY
DATE



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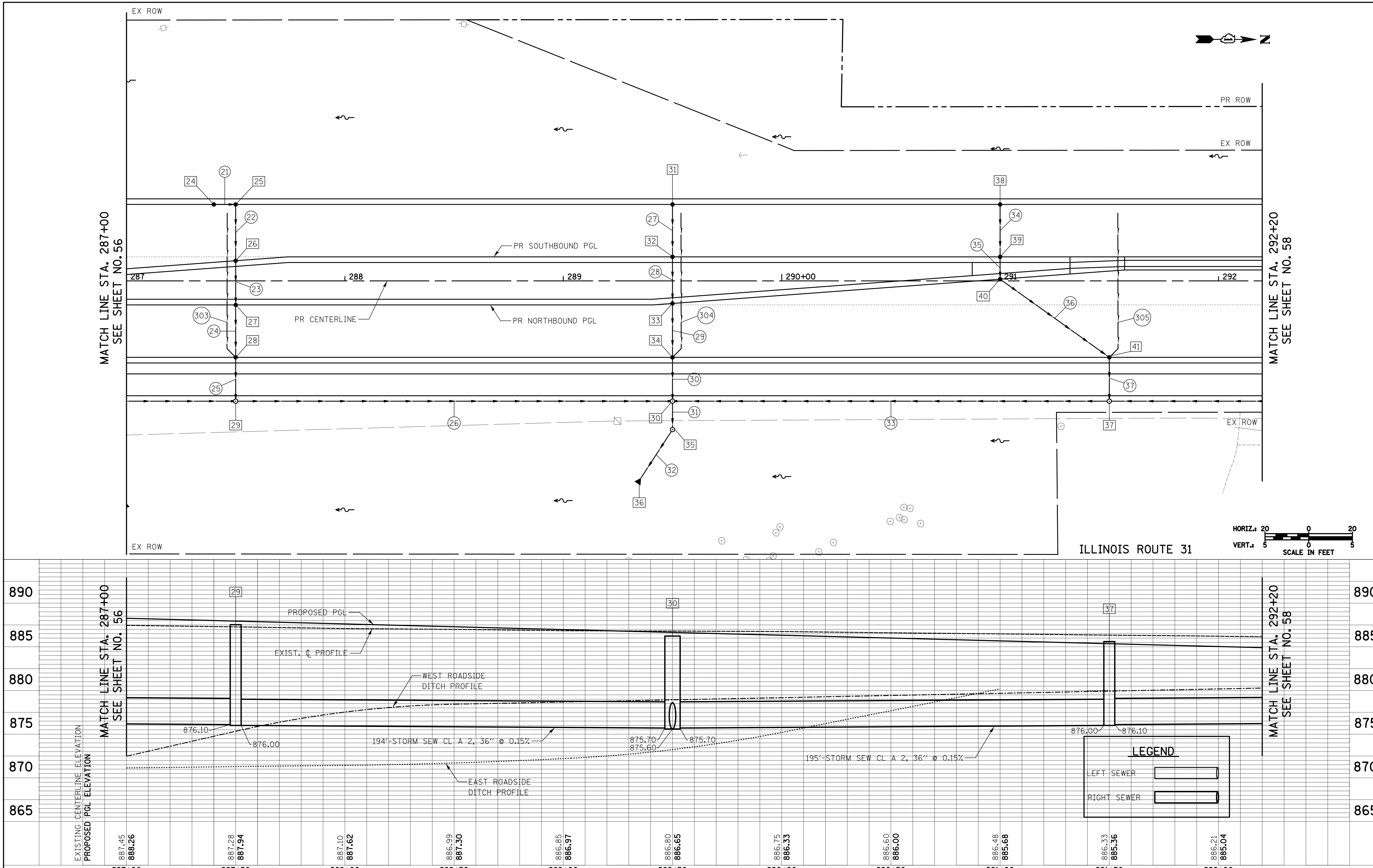
		DRAWN - PML	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -		
	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -		SCALE: 1" = 20' | SHEET NO. 3 OF 13 SHEETS | STA. 281+80 TO STA. 287+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	56
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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		DRAWN - PML	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 13 SHEETS | STA. 287+00 TO STA. 292+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	57

CONTRACT NO. 60V72

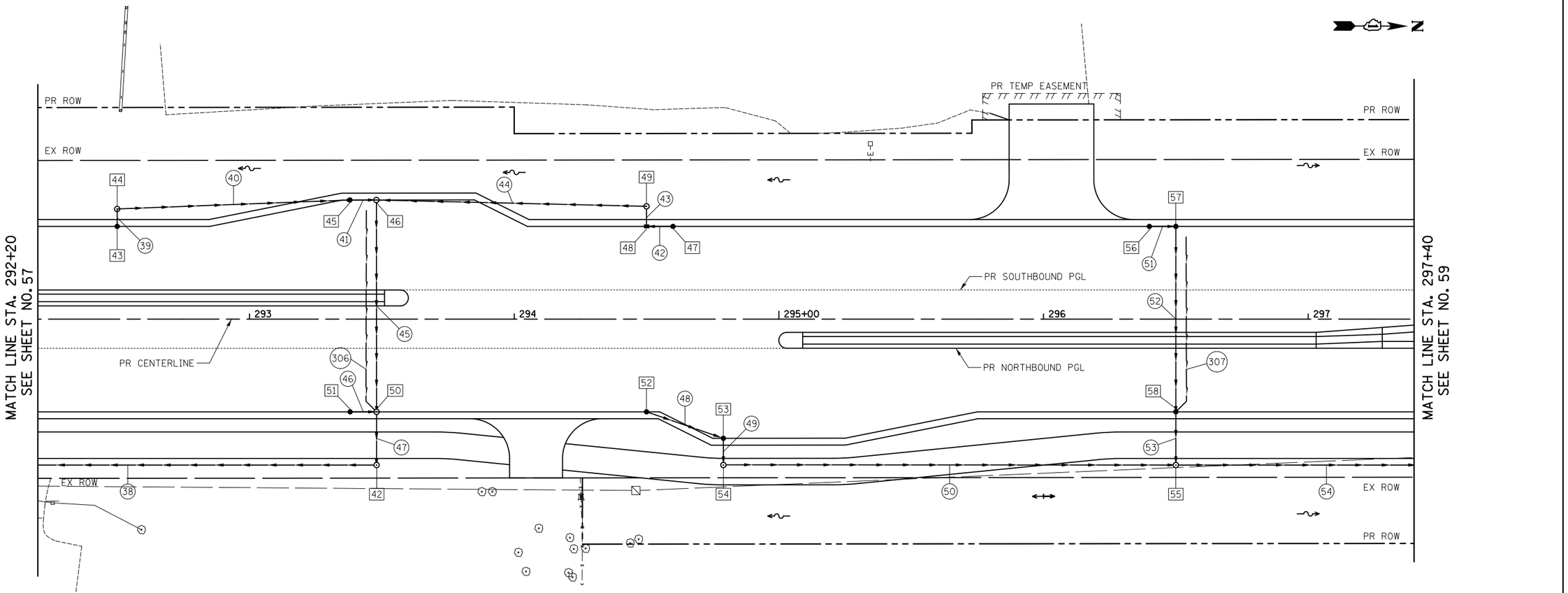
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

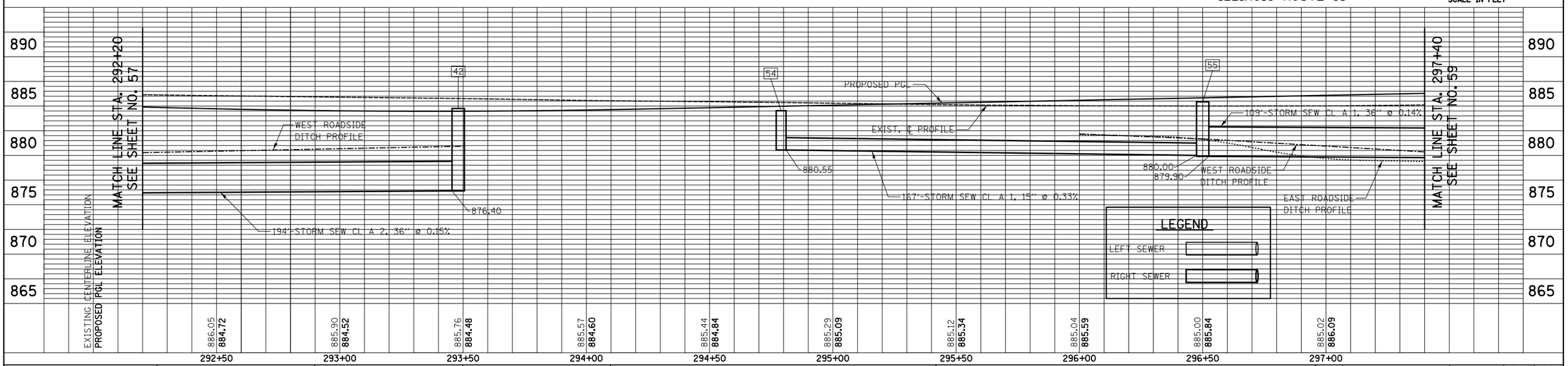
PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		GRADES CHECKED
		B.M. NOTED
		STRUCTURE NOTATNS CHKD
		NOTE BOOK
		NO.





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		DRAWN - PML	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 5 OF 13 SHEETS | STA. 292+20 TO STA. 297+40

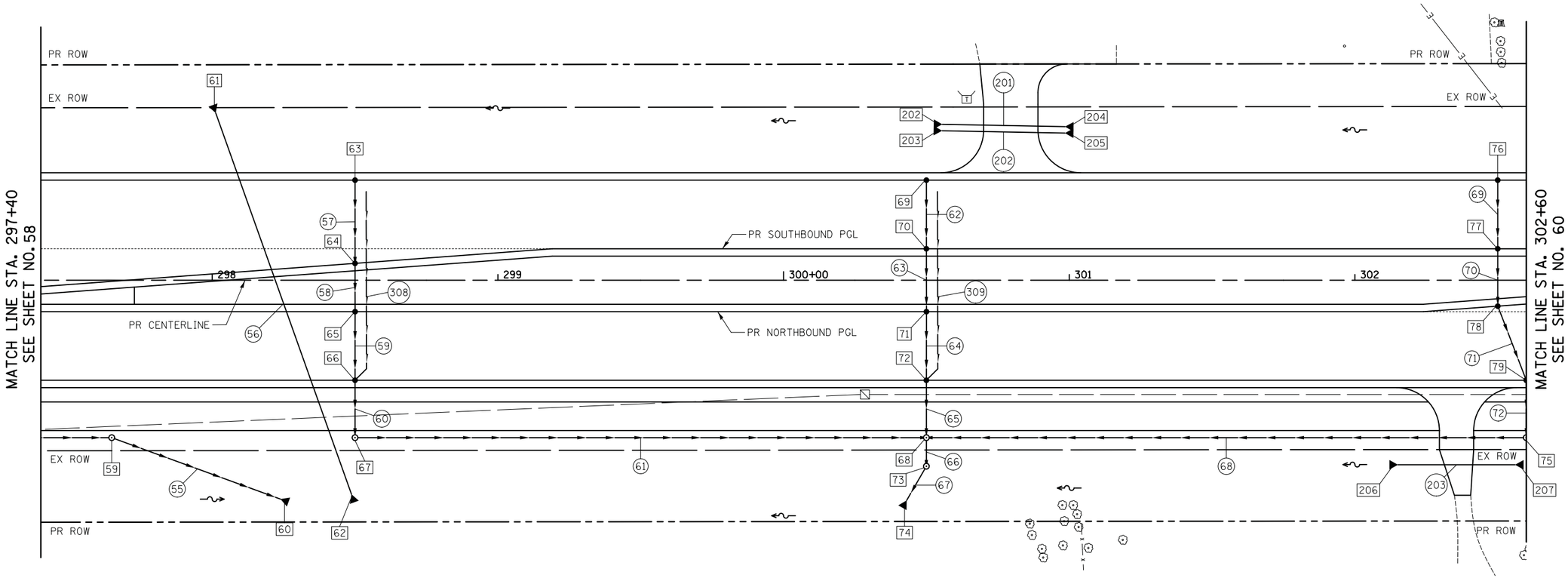
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	58
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

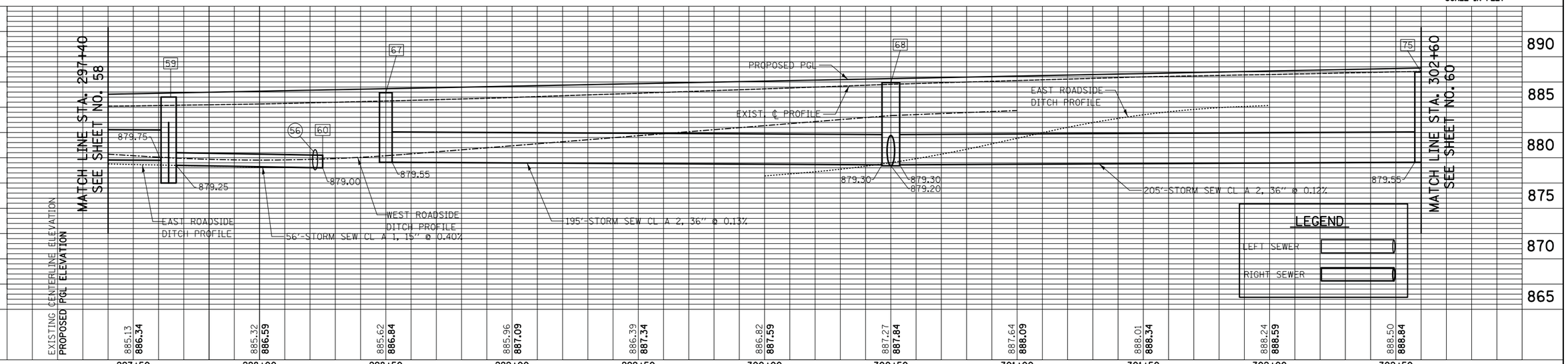
PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		GRADES CHECKED
		B.M. NOTED
		STRUCTURE NOTATNS CHKD
		NOTE BOOK
		NO.





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		DRAWN - PML	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 6 OF 13 SHEETS | STA. 271+40 TO STA. 276+60

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	59
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ASSIST. CHECKED
NOTE BOOK
NO.
BY
DATE
PROJECT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

PROFILE
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ASSIST. CHECKED
NOTE BOOK
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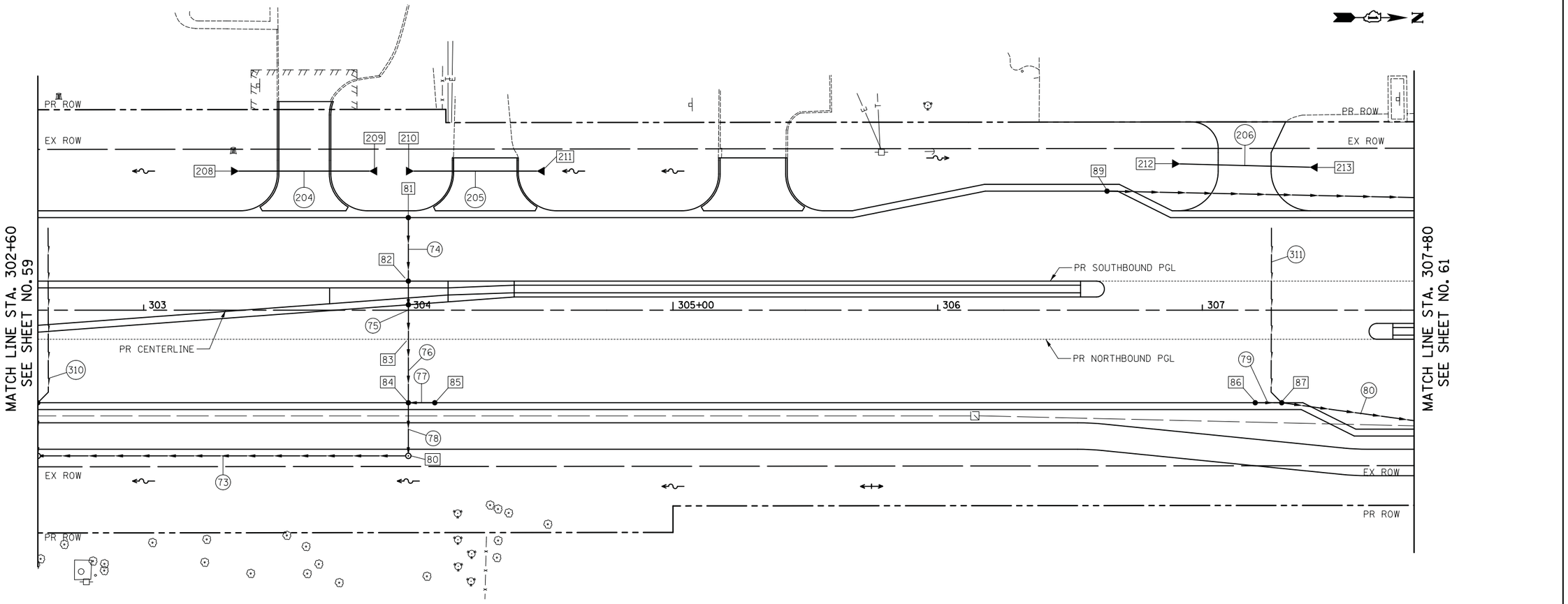
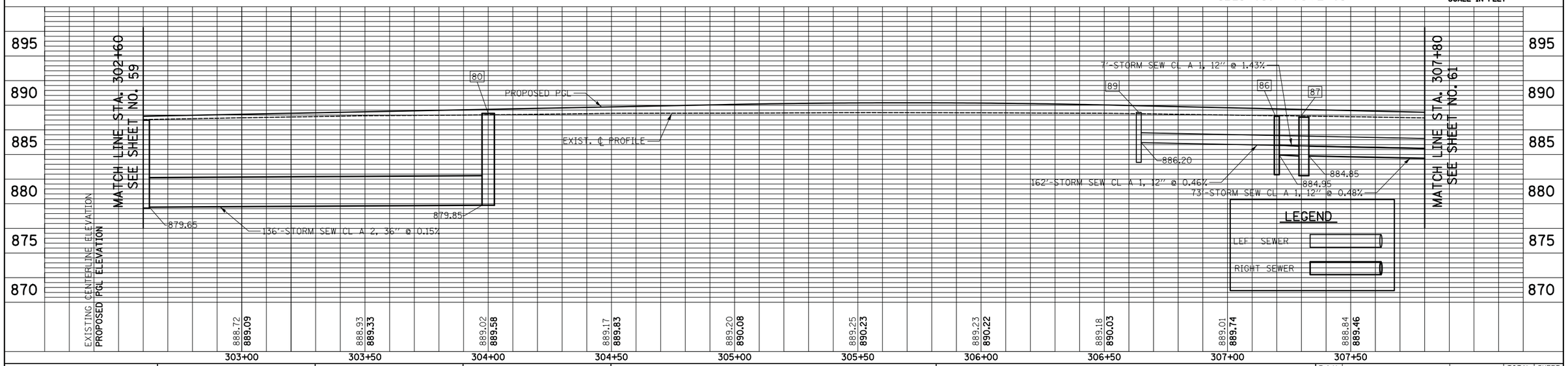
DATE
R.M. NOTED
STRUCTURE NOTATNS CHKD





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		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

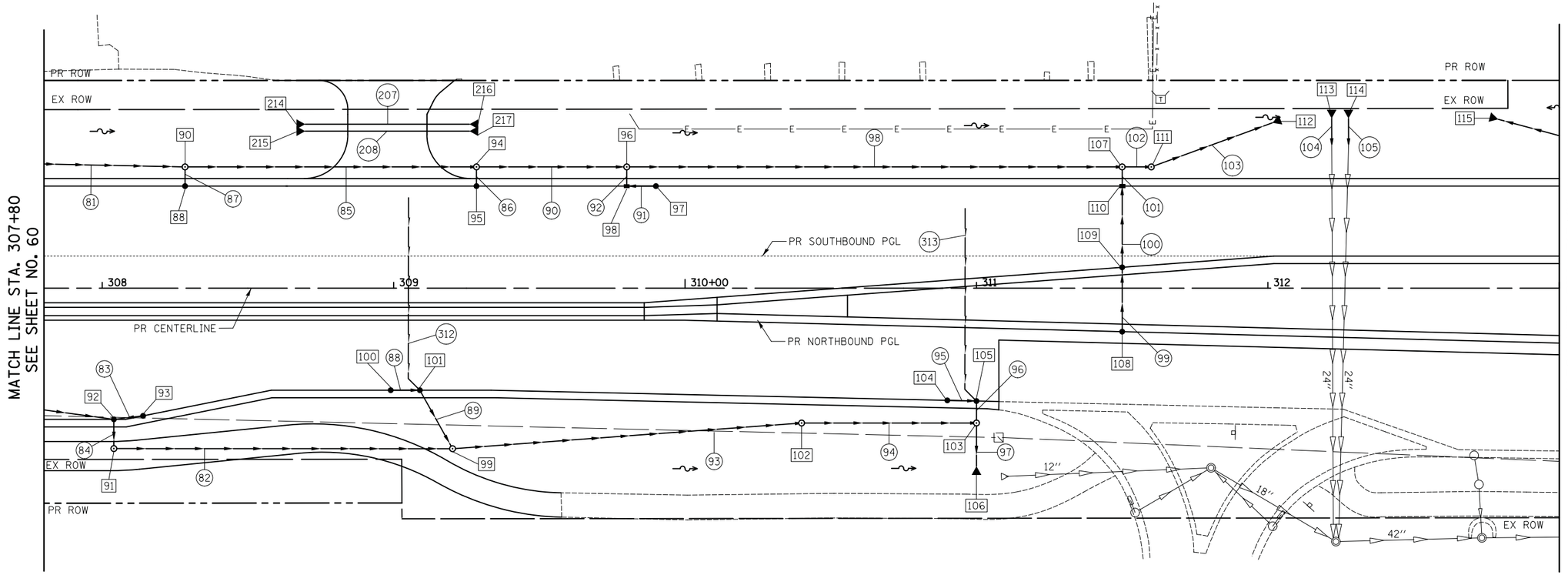
DRAINAGE AND UTILITY PLAN

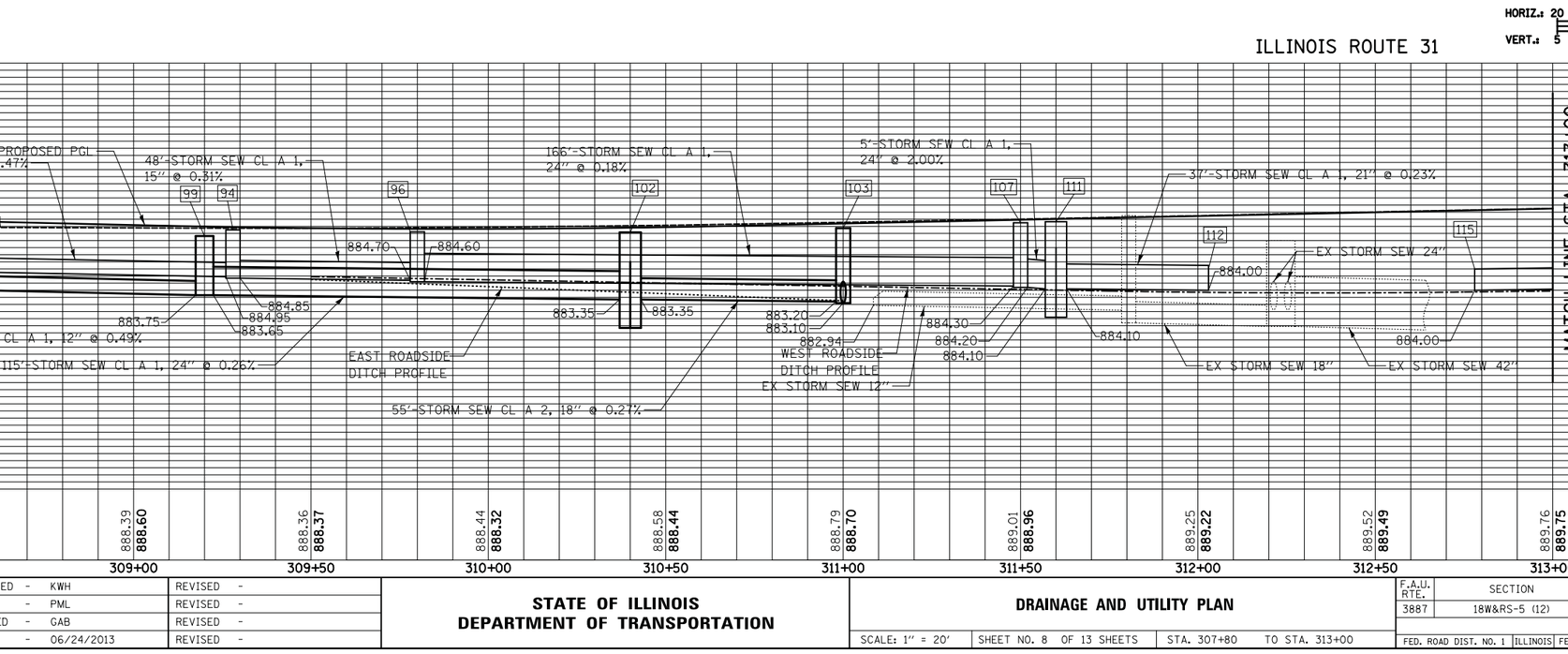
SCALE: 1" = 20' | SHEET NO. 7 OF 13 SHEETS | STA. 302+60 TO STA. 307+80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	60
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
BAR. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE





FILE NAME = ...\2278NG_D&U_08.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PML	REVISED -			3887	18W&RS-5 (12)	MCHENRY	151	61
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 60V72		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: 1" = 20' | SHEET NO. 8 OF 13 SHEETS | STA. 307+80 TO STA. 313+00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

N

EX ROW

MATCH LINE STA. 313+00
SEE SHEET NO. 61

MATCH LINE STA. 318+20
SEE SHEET NO. 63

PR SOUTHBOUND PGL

PR CENTERLINE

313 | 314 | 315+00 | 316 | 317 | 318

106 107 111 115 116 117 120 121 125 126 127 131 132

108 109 110 112 113 114 118 119 122 123 124

CTV

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

ILLINOIS ROUTE 31

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

313+00	313+50	314+00	314+50	315+00	315+50	316+00	316+50	317+00	317+50	318+00
889.76 / 889.75	889.99 / 890.01	890.32 / 890.27	890.59 / 890.54	890.80 / 890.80	891.04 / 891.06	891.31 / 891.33	891.57 / 891.59	891.83 / 891.85	892.07 / 892.11	892.28 / 892.34

895 890 885 880 875 870

5'-STORM SEW CL A 2, 24" @ 2.00%

55'-STORM SEW CL A 1, 18" @ 0.33%

196'-STORM SEW CL A 2, 24" @ 0.20%

200'-STORM SEW CL A 2, 18" @ 0.45%

23'-STORM SEW CL A 2, 18" @ 0.43%

EXIST. ℄ PROFILE

PROPOSED PGL

WEST ROADSIDE DITCH PROFILE

884.20 884.40 884.30 884.20 884.80 884.90 885.80 885.90 886.10 886.00

LEGEND
LEFT SEWER
RIGHT SEWER

FILE NAME = ...\2278NG_D&U_09.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 9 OF 13 SHEETS | STA. 313+00 TO STA. 318+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	62
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

JAMES R RAKOW ROAD

IMPROVEMENT ENDS
STA. 320+82.66

N

MATCH LINE STA. 318+20
SEE SHEET NO.62

EX ROW

133 130 122 119 128 118 129

319 320+00 321 322

PR CENTERLINE

EX ROW

CENTRAL PARK DRIVE

ILLINOIS ROUTE 31

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

PLAN
DATE
BY
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
DATE
BY
SURVEYED
PLOTTED
PROFILE CHECKED
R.M. NOTED
STRUCTURE NO(S)/RS CHK'D
NOTE BOOK
NO.

MATCH LINE STA. 318+20
SEE SHEET NO. 62

7"-STORM SEW CL A 1, 12" @ 1.43%

IMPROVEMENT ENDS
STA. 320+82.66

128 129

EXIST. ℄ PROFILE

888.80
888.70

886.50

133

108"-STORM SEW CL A 1, 15" @ 0.35%

LEGEND

LEFT SEWER

RIGHT SEWER

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

	318+50	319+00	319+50	320+00	320+50	321+00	321+50	322+00	322+50	323+00
EXISTING	892.43	892.47	892.47	892.41	892.27	891.98	891.64	891.21	890.72	890.15
PROPOSED	892.48	892.53	892.50	892.37	892.20					

895 890 885 880 875 870

FILE NAME = ...\2278NG_D&U_10.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 10 OF 13 SHEETS | STA. 318+20 TO STA. 320+82.66

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	63
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

1 STA. 277+52, 51.6' LT
PRC FLAR END SEC 15
INV = 878.10 (NE)

2 STA. 277+75, 41.9' LT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 881.85
INV = 878.20 (N)
INV = 878.20 (SW)

3 STA. 278+25, 42.8' LT
MAN TA 5 DIA T1F CL
RIM = 882.65
INV = 878.40 (E)
INV = 878.40 (N)
INV = 878.30 (S)

4 STA. 278+25, 10' LT
CB TC T24F&G
RIM = 882.73
INV = 878.65 (W)

5 STA. 278+25, 36.5' LT
INLETS TB T24F&G
RIM = 882.25
INV = 878.60 (E)
INV = 878.50 (W)

6 STA. 278+61, 63.6' RT
PRC FLAR END SEC 18
INV = 880.10 (NW)

7 STA. 279+00, 44.5' RT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 884.04
INV = 880.20 (N)
INV = 880.20 (SE)

8 STA. 279+50, 44.5' RT
MAN TA 5 DIA T1F CL
RIM = 885.02
INV = 880.40 (N)
INV = 880.40 (W)
INV = 880.30 (S)

9 STA. 279+50, 36.0' RT
CB TC T24F&G
RIM = 884.63
INV = 881.83 (PD)
INV = 880.50 (E)

10 STA. 280+00, 41.6' LT
MAN TA 5 DIA T1F CL
RIM = 886.00
INV = 880.80 (E)
INV = 878.90 (N)
INV = 878.80 (S)

11 STA. 280+00, 36.0' LT
CB TC T24F&G
RIM = 885.58
INV = 880.90 (W)

12 STA. 281+50, 44.5' RT
MAN TA 5 DIA T1F CL
RIM = 888.58
INV = 882.85 (W)
INV = 880.95 (N)
INV = 880.85 (S)

13 STA. 281+50, 36.0' RT
CB TC T24F&G
RIM = 888.19
INV = 883.05 (E)

14 STA. 281+67, 47.5' LT
CB TA 5 DIA T24F&G
RIM = 888.21
INV = 881.25 (N)
INV = 879.25 (S)

15 STA. 281+77, 46.0' LT
CB TC T24F&G
RIM = 888.33
INV = 881.60 (S)

16 STA. 282+65, 44.5' RT
MAN TA 5 DIA T1F CL
RIM = 889.81
INV = 885.25 (NE)
INV = 883.20 (W)
INV = 881.20 (S)

17 STA. 282+65, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 889.30
INV = 886.50 (PD)
INV = 884.40 (N)
INV = 883.40 (E)

18 STA. 282+75, 36.0' RT
CB TC T24F&G
RIM = 889.36
INV = 884.60 (S)

19 STA. 285+50, 36.0' LT
CB TC T24F&G
RIM = 888.63
INV = 883.95 (E)

20 STA. 285+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 888.63
INV = 885.34 (PD)
INV = 883.25 (W)
INV = 882.75 (E)

21 STA. 285+50, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 888.82
INV = 882.40 (W)
INV = 876.40 (N)

22 STA. 286+60, 95.0' LT
PRC FLAR END SEC 24
INV = 870.77 (NE)

23 STA. 287+00, 104.6' RT
PRC FLAR END SEC 24
W/ GRATING
INV = 871.17 (SW)

24 STA. 287+40, 36.0' LT
CB TC T24F&G
RIM = 887.41
INV = 882.95 (N)

25 STA. 287+50, 37.0' LT
CB TA 4 DIA T24F&G
RIM = 887.34
INV = 882.85 (S)
INV = 882.85 (E)

26 STA. 287+50, 7.2' LT
CB TA 4 DIA T24F&G
RIM = 887.85
INV = 882.25 (W)
INV = 882.25 (E)

27 STA. 287+50, 9.0' RT
CB TA 4 DIA T24F&G
RIM = 887.82
INV = 881.95 (W)
INV = 880.95 (E)

28 STA. 287+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 887.34
INV = 884.05 (PD)
INV = 880.35 (W)
INV = 878.35 (E)

29 STA. 287+50, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 887.53
INV = 878.00 (W)
INV = 876.10 (S)
INV = 876.00 (N)

30 STA. 289+50, 56.1' RT
MAN TA 7 DIA T1F CL
RIM = 886.23
INV = 877.60 (W)
INV = 875.70 (S)
INV = 875.70 (N)
INV = 875.60 (E)

31 STA. 289+50, 36.0' LT
CB TC T24F&G
RIM = 886.05
INV = 881.60 (E)

32 STA. 289+50, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 886.53
INV = 881.00 (W)
INV = 881.00 (E)

33 STA. 289+50, 8.3' RT
CB TA 4 DIA T24F&G
RIM = 886.53
INV = 880.65 (W)
INV = 879.65 (E)

34 STA. 289+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 886.04
INV = 883.25 (PD)
INV = 878.95 (W)
INV = 877.95 (E)

35 STA. 289+50, 68.1' RT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 883.53
INV = 875.50 (W)
INV = 874.50 (SE)

36 STA. 289+34.75, 91.5' RT
PRC FLAR END SEC 21
INV = 872.93 (NW)

37 STA. 291+50, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 885.60
INV = 878.00 (W)
INV = 876.10 (N)
INV = 876.00 (S)

38 STA. 291+00, 36.0' LT
CB TC T24F&G
RIM = 885.08
INV = 880.00 (E)

39 STA. 291+00, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 885.56
INV = 879.65 (W)
INV = 879.65 (E)

40 STA. 291+00, 2.8' LT
CB TA 4 DIA T24F&G
RIM = 885.74
INV = 879.55 (W)
INV = 879.55 (NE)

41 STA. 291+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 884.76
INV = 881.96 (PD)
INV = 878.35 (SW)
INV = 878.35 (E)

42 STA. 293+48, 55.6' RT
MAN TA 5 DIA T1F CL
RIM = 884.76
INV = 877.40 (W)
INV = 876.40 (S)

43 STA. 292+50, 36.0' LT
CB TC T24F&G
RIM = 884.12
INV = 879.15 (W)

44 STA. 292+50, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 884.52
INV = 879.05 (E)
INV = 878.95 (N)

45 STA. 293+38, 47.0' LT
CB TA 4 DIA T24F&G
RIM = 883.67
INV = 878.10 (S)
INV = 878.10 (N)

46 STA. 293+48, 47.0' LT
MAN TA 5 DIA T24F&G
RIM = 883.68
INV = 878.00 (S)
INV = 878.00 (N)
INV = 877.90 (E)

47 STA. 294+60, 36.0' LT
CB TC T24F&G
RIM = 884.29
INV = 880.00 (S)

48 STA. 294+50, 36.5' LT
INLETS TB T24F&G
RIM = 884.24
INV = 879.90 (N)
INV = 879.10 (W)

49 STA. 294+50, 42.6' LT
MAN TA 4 DIA T1F CL
RIM = 884.59
INV = 879.00 (E)
INV = 878.90 (S)

50 STA. 293+48, 37.0' RT
MAN TA 4 DIA T24F&G
RIM = 883.88
INV = 880.83 (PD)
INV = 878.50 (S)
INV = 877.60 (W)
INV = 877.50 (E)

51 STA. 293+38, 36.0' RT
CB TC T24F&G
RIM = 883.87
INV = 878.70 (N)

22A STA. 286+67, 59.1' LT
MAN TA 5 DIA T1F CL
RIM = 883.57
INV = 872.86 (S)
INV = 870.86 (E)
INV = 870.86 (W)

22B STA. 285+00, 59.1' LT
PRC FLAR END SEC 15
INV = 884.03 (S)

① 16' - STORM SEWERS, CL A, TYPE 1 15" @ 0.45%
TBF = 0.0 CU YD

② 45' - STORM SEWERS, CL A, TYPE 1 EQRS 30" @ 0.22%
TBF = 0.0 CU YD

③ 24' - STORM SEWERS, CL A, TYPE 1 12" @ 0.21%
TBF = 3.2 CU YD

④ 3' - STORM SEWERS, CL A, TYPE 1 12" @ 3.33%
TBF = 0.0 CU YD

⑤ 40' - STORM SEWERS, CL A, TYPE 1 18" @ 0.25%
TBF = 1.5 CU YD

⑥ 45' - STORM SEWERS, CL A, TYPE 1 EQRS 30" @ 0.22%
TBF = 12.9 CU YD

⑦ 6' - STORM SEWERS, CL A, TYPE 1 12" @ 1.67%
TBF = 1.3 CU YD

⑧ 171' - STORM SEWERS, CL A, TYPE 1 EQRS 30" @ 0.23%
TBF = 0.0 CU YD

⑨ 3' - STORM SEWERS, CL A, TYPE 2 12" @ 3.33%
TBF = 0.5 CU YD

⑩ 196' - STORM SEWERS, CL A, TYPE 1 EQRS 30" @ 0.23%
TBF = 173.9 CU YD

⑪ 6' - STORM SEWERS, CL A, TYPE 2 12" @ 3.33%
TBF = 1.9 CU YD

⑫ 163' - STORM SEWERS, CL A, TYPE 2 EQRS 30" @ 0.21%
TBF = 69.0 CU YD

⑬ 7' - STORM SEWERS, CL A, TYPE 2 12" @ 5.00%
TBF = 3.6 CU YD

⑭ 111' - STORM SEWERS, CL A, TYPE 2 EQRS 30" @ 0.23%
TBF = 148.6 CU YD

⑮ 4' - STORM SEWERS, CL A, TYPE 2 12" @ 5.00%
TBF = 2.1 CU YD

⑯ 7' - STORM SEWERS, CL A, TYPE 1 12" @ 2.86%
TBF = 1.3 CU YD

⑰ 70' - STORM SEWERS, CL A, TYPE 1 12" @ 1.00%
TBF = 23.5 CU YD

⑱ 14' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%
TBF = 8.0 CU YD

⑲ 196' - STORM SEWERS, CL A, TYPE 2 36" @ 0.15%
TBF = 416.5 CU YD

⑳ 194' - PIPE CULVERTS, CL A, TYPE 3 24" @ 0.17%
TBF = 284.4 CU YD
(SEE NOTE 3)

㉑ 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 1.2 CU YD

㉒ 26' - STORM SEWERS, CL A, TYPE 1 12" @ 2.31%
TBF = 9.7 CU YD

㉓ 12' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 7.8 CU YD

㉔ 24' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 15.2 CU YD

㉕ 14' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 13.5 CU YD

㉖ 194' - STORM SEWERS, CL A, TYPE 2 36" @ 0.15%
TBF = 371.1 CU YD

㉗ 24' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 4.9 CU YD

㉘ 13' - STORM SEWERS, CL A, TYPE 1 12" @ 2.69%
TBF = 8.4 CU YD

㉙ 25' - STORM SEWERS, CL A, TYPE 2 12" @ 2.80%
TBF = 16.2 CU YD

㉚ 14' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%
TBF = 10.8 CU YD

㉛ 3' - STORM SEWERS, CL A, TYPE 2 36" @ 3.33%
TBF = 4.4 CU YD

㉜ 19' - STORM SEWERS, CL A, TYPE 1 21" @ 1.60%
TBF = 7.2 CU YD

㉝ 195' - STORM SEWERS, CL A, TYPE 2 36" @ 0.15%
TBF = 308.5 CU YD

㉞ 24' - STORM SEWERS, CL A, TYPE 1 12" @ 1.46%
TBF = 6.2 CU YD

㉟ 4' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 1.3 CU YD

㊱ 60' - STORM SEWERS, CL A, TYPE 1 12" @ 2.00%
TBF = 20.5 CU YD

㊲ 14' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%
TBF = 8.9 CU YD

㊳ 194' - STORM SEWERS, CL A, TYPE 2 36" @ 0.15%
TBF = 239.8 CU YD

㊴ 3' - STORM SEWERS, CL A, TYPE 1 12" @ 3.33%
TBF = 0.7 CU YD

㊵ 84' - STORM SEWERS, CL A, TYPE 2 12" @ 1.01%
TBF = 12.0 CU YD

㊶ 6' - STORM SEWERS, CL A, TYPE 2 12" @ 1.67%
TBF = 3.8 CU YD

㊷ 8' - STORM SEWERS, CL A, TYPE 1 12" @ 1.25%
TBF = 1.1 CU YD

㊸ 3' - STORM SEWERS, CL A, TYPE 2 12" @ 3.33%
TBF = 0.8 CU YD

㊹ 98' - STORM SEWERS, CL A, TYPE 2 12" @ 0.92%
TBF = 28.5 CU YD

㊺ 80' - STORM SEWERS, CL A, TYPE 1 15" @ 0.37%
TBF = 56.9 CU YD

㊻ 7' - STORM SEWERS, CL A, TYPE 1 12" @ 2.86%
TBF = 2.6 CU YD

㊼ 14' - STORM SEWERS, CL A, TYPE 2 18" @ 0.71%
TBF = 8.9 CU YD

⑳A 159' - STORM SEWERS, CL A, TYPE 2 15" @ 6.69%
TBF = 0.0 CU YD

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB INLETS ARE AT THE FLOW LINE.
3. CONTRACTOR HAS THE OPTION TO JACK IN PLACE PIPE CULVERT.

FILE NAME = ...\2278NG_D&U_11.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: | SHEET NO. 11 OF 13 SHEETS | STA | TO STA

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	64
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
DATE
BY
SURVEYED
PLOTTED
ADJUSTMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
DATE
BY
SURVEYED
PLOTTED
CROSS SECT. CHECKED
S.M. NOTED
STRUCTURE NO
TAINS CHKD

52 STA. 294+50, 36.0' RT
CB TC T24F&G
RIM = 884.24
INV = 880.95 (NE)

53 STA. 294+79, 47.0' RT
CB TA 4 DIA T24F&G
RIM = 884.18
INV = 880.75 (SW)
INV = 880.75 (E)

54 STA. 294+79, 55.1' RT
MAN TA 4 DIA T1F CL
RIM = 884.53
INV = 880.65 (W)
INV = 880.55 (N)

55 STA. 296+50, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 885.43
INV = 880.90 (W)
INV = 880.00 (S)
INV = 879.90 (N)

56 STA. 296+40, 36.0' LT
CB TC T24F&G
RIM = 885.19
INV = 881.45 (N)

57 STA. 296+50, 37' LT
CB TA 4 DIA T24F&G
RIM = 885.24
INV = 881.35 (S)
INV = 881.35 (E)

58 STA. 296+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 885.24
INV = 882.00 (PD)
INV = 881.00 (W)
INV = 881.00 (E)

59 STA. 297+64, 55.1' RT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 886.01
INV = 879.75 (S)
INV = 879.25 (NE)

60 STA. 298+25, 77.1' RT
PRC FLAR END SEC 15
INV = 879.00 (SW)

61 STA. 298+00, 62.0' LT
PRC FLAR END SEC 24
W/ GRATING
INV = 879.77 (NE)

62 STA. 298+50, 78.4' RT
PRC FLAR END SEC 24
INV = 878.47 (SW)

63 STA. 298+50, 36.0' LT
CB TC T24F&G
RIM = 886.24
INV = 881.55 (E)

64 STA. 298+50, 3.9' LT
CB TA 4 DIA T24F&G
RIM = 886.79
INV = 881.40 (W)
INV = 881.40 (E)

65 STA. 298+50, 9.0' RT
CB TA 4 DIA T24F&G
RIM = 886.72
INV = 881.30 (W)
INV = 881.30 (E)

66 STA. 298+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 886.24
INV = 883.44 (PD)
INV = 881.15 (W)
INV = 881.15 (E)

67 STA. 298+50, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 886.44
INV = 881.05 (W)
INV = 879.55 (N)

68 STA. 300+50, 56.1' RT
MAN TA 7 DIA T1F CL
RIM = 887.44
INV = 881.20 (W)
INV = 879.30 (S)
INV = 879.30 (N)
INV = 879.20 (E)

69 STA. 300+50, 36.0' LT
CB TC T24F&G
RIM = 887.24
INV = 882.70 (E)

70 STA. 300+50, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 887.72
INV = 882.55 (W)
INV = 882.55 (E)

71 STA. 300+50, 9.0' RT
CB TA 4 DIA T24F&G
RIM = 887.72
INV = 882.45 (W)
INV = 882.45 (E)

72 STA. 300+50, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 887.24
INV = 884.44 (PD)
INV = 882.30 (W)
INV = 881.30 (E)

73 STA. 300+50, 65.1' RT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 884.72
INV = 879.10 (W)
INV = 879.10 (SE)

74 STA. 300+42, 78.3' RT
PRC FLAR END SEC 18
INV = 879.00 (NW)

75 STA. 302+60, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 888.49
INV = 881.55 (W)
INV = 879.65 (N)
INV = 879.55 (S)

76 STA. 302+50, 36.0' LT
CB TC T24F&G
RIM = 888.24
INV = 883.55 (E)

77 STA. 302+50, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 888.72
INV = 883.40 (W)
INV = 883.40 (E)

78 STA. 302+50, 7.1' RT
CB TA 4 DIA T24F&G
RIM = 888.74
INV = 883.30 (W)
INV = 882.80 (NE)

79 STA. 302+60, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 888.29
INV = 885.44 (PD)
INV = 882.65 (SW)
INV = 881.65 (E)

80 STA. 304+00, 55.1' RT
MAN TA 5 DIA T1F CL
RIM = 889.17
INV = 881.85 (W)
INV = 879.85 (S)

81 STA. 304+00, 36.0' LT
CB TC T24F&G
RIM = 888.99
INV = 884.35 (E)

82 STA. 304+00, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 889.47
INV = 884.20 (W)
INV = 884.20 (E)

83 STA. 304+00, 4.0' LT
CB TA 4 DIA T24F&G
RIM = 889.67
INV = 884.20 (W)
INV = 884.20 (E)

84 STA. 304+00, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 888.99
INV = 883.95 (N)
INV = 883.95 (W)
INV = 881.95 (E)

85 STA. 304+10, 36.0' RT
CB TC T24F&G
RIM = 889.03
INV = 884.05 (S)

86 STA. 307+20, 36.0' RT
CB TC T24F&G
RIM = 888.88
INV = 884.95 (N)

87 STA. 307+30, 36.0' RT
CB TA 4 DIA T24F&G
RIM = 888.78
INV = 885.95 (PD)
INV = 884.85 (S)
INV = 884.85 (E)

88 STA. 308+28, 36.0' LT
MAN TA 4 DIA T1F CL
RIM = 888.41
INV = 884.50 (W)

89 STA. 306+64, 45.0' LT
CB TC T24F&G
RIM = 889.27
INV = 886.20 (N)

90 STA. 308+28, 41.6' LT
CB TA 4 DIA T24F&G
RIM = 888.73
INV = 885.40 (S)
INV = 885.40 (N)

91 STA. 308+04, 55.0' RT
MAN TA 4 DIA T1F CL
RIM = 888.70
INV = 884.40 (W)
INV = 884.30 (N)

92 STA. 308+04, 47.0' RT
CB TA 4 DIA T24F&G
RIM = 888.35
INV = 884.60 (N)
INV = 884.50 (S)
INV = 884.50 (E)

93 STA. 308+14, 44.8' RT
CB TC T24F&G
RIM = 888.31
INV = 884.70 (N)

94 STA. 309+28, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 888.25
INV = 884.95 (E)
INV = 884.95 (S)
INV = 884.85 (N)

95 STA. 309+28, 36.0' LT
CB TC T24F&G
RIM = 887.85
INV = 885.05 (W)

96 STA. 309+80, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 888.12
INV = 884.70 (E)
INV = 884.70 (S)
INV = 884.60 (N)

97 STA. 309+90, 36.0' LT
CB TC T24F&G
RIM = 887.72
INV = 885.00 (S)

98 STA. 309+80, 36.5' LT
INLETS TB T24F&G
RIM = 887.72
INV = 884.90 (N)
INV = 884.80 (W)

99 STA. 309+20, 54.6' RT
MAN TA 5 DIA T1F CL
RIM = 887.82
INV = 883.75 (SW)
INV = 883.75 (S)
INV = 883.65 (N)

100 STA. 308+99, 36.0' RT
CB TC T24F&G
RIM = 888.00
INV = 883.95 (N)

101 STA. 309+09, 37.0' RT
CB TA 4 DIA T24F&G
RIM = 887.82
INV = 885.14 (PD)
INV = 883.85 (S)
INV = 883.85 (NE)

102 STA. 310+40, 46.2' RT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 888.08
INV = 883.35 (S)
INV = 883.35 (N)

103 STA. 311+00, 46.2' RT
MAN TA 4 DIA T1F CL
RIM = 888.37
INV = 883.20 (S)
INV = 883.20 (W)
INV = 883.10 (E)

104 STA. 310+90, 39.5' RT
CB TC T24F&G
RIM = 888.02
INV = 883.40 (N)

105 STA. 311+00, 40.7' RT
CB TA 4 DIA T24F&G
RIM = 888.02
INV = 885.28 (PD)
INV = 883.30 (S)
INV = 883.30 (E)

106 STA. 311+00, 62.1' RT
PRC FLAR END SEC 18
INV = 883.00 (W)

107 STA. 311+50, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 888.75
INV = 884.30 (E)
INV = 884.30 (S)
INV = 884.20 (N)

108 STA. 311+50, 13.9' RT
CB TC T24F&G
RIM = 888.63
INV = 884.80 (W)

109 STA. 311+50, 5.2' LT
CB TA 4 DIA T24F&G
RIM = 888.90
INV = 884.70 (E)
INV = 884.70 (W)

110 STA. 311+50, 36.5' LT
INLETS TB T24F&G
RIM = 888.35
INV = 884.50 (E)
INV = 884.40 (W)

111 STA. 311+60, 41.6' LT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 888.83
INV = 884.10 (S)
INV = 884.10 (NW)

112 STA. 312+03, 57.2' LT
PRC FLAR END SEC 21
INV = 884.00 (SE)

(48) 28' - STORM SEWERS, CL A, TYPE 1 12" @ 0.71%
TBF = 3.7 CU YD

(49) 4' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 0.6 CU YD

(50) 167' - STORM SEWERS, CL A, TYPE 1 15" @ 0.33%
TBF = 52.9 CU YD

(51) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 1.5 CU YD

(52) 70' - STORM SEWERS, CL A, TYPE 1 12" @ 0.50%
TBF = 18.8 CU YD

(53) 14' - STORM SEWERS, CL A, TYPE 1 12" @ 0.71%
TBF = 4.2 CU YD

(54) 109' - STORM SEWERS, CL A, TYPE 1 36" @ 0.14%
TBF = 70.2 CU YD

(55) 56' - STORM SEWERS, CL A, TYPE 1 15" @ 0.40%
TBF = 0.0 CU YD

(56) 135' - PIPE CULVERTS, CL A, TYPE 1 24" @ 0.87%
TBF = 96.7 CU YD

(57) 29' - STORM SEWERS, CL A, TYPE 1 12" @ 0.52%
TBF = 5.9 CU YD

(58) 9' - STORM SEWERS, CL A, TYPE 1 12" @ 1.11%
TBF = 2.1 CU YD

(59) 24' - STORM SEWERS, CL A, TYPE 1 12" @ 0.62%
TBF = 5.7 CU YD

(60) 14' - STORM SEWERS, CL A, TYPE 1 12" @ 0.71%
TBF = 4.7 CU YD

(61) 195' - STORM SEWERS, CL A, TYPE 2 36" @ 0.13%
TBF = 202.6 CU YD

(62) 24' - STORM SEWERS, CL A, TYPE 1 12" @ 0.63%
TBF = 4.4 CU YD

(63) 14' - STORM SEWERS, CL A, TYPE 1 12" @ 0.71%
TBF = 3.2 CU YD

(64) 24' - STORM SEWERS, CL A, TYPE 1 12" @ 0.63%
TBF = 5.2 CU YD

(65) 13' - STORM SEWERS, CL A, TYPE 2 12" @ 0.77%
TBF = 8.5 CU YD

(66) 3' - STORM SEWERS, CL A, TYPE 1 36" @ 3.33%
TBF = 0.0 CU YD

(67) 6' - STORM SEWERS, CL A, TYPE 1 18" @ 0.83%
TBF = 0.0 CU YD

(68) 205' - STORM SEWERS, CL A, TYPE 2 36" @ 0.12%
TBF = 258.5 CU YD

(69) 24' - STORM SEWERS, CL A, TYPE 1 12" @ 0.62%
TBF = 4.9 CU YD

(70) 14' - STORM SEWERS, CL A, TYPE 1 12" @ 0.71%
TBF = 3.5 CU YD

(71) 26' - STORM SEWERS, CL A, TYPE 1 12" @ 0.58%
TBF = 7.5 CU YD

(72) 14' - STORM SEWERS, CL A, TYPE 2 12" @ 0.71%
TBF = 10.3 CU YD

(73) 136' - STORM SEWERS, CL A, TYPE 2 36" @ 0.15%
TBF = 188.2 CU YD

(74) 24' - STORM SEWERS, CL A, TYPE 1 12" @ 0.62%
TBF = 4.7 CU YD

(75) 1' - STORM SEWERS, CL A, TYPE 1 12" @ 0.40%
TBF = 3.8 CU YD

(76) 37' - STORM SEWERS, CL A, TYPE 1 12" @ 0.68%
TBF = 5.4 CU YD

(77) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 1.4 CU YD

(78) 14' - STORM SEWERS, CL A, TYPE 2 12" @ 0.71%
TBF = 11.5 CU YD

(79) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 0.9 CU YD

(80) 73' - STORM SEWERS, CL A, TYPE 1 12" @ 0.48%
TBF = 3.9 CU YD

(81) 162' - STORM SEWERS, CL A, TYPE 1 12" @ 0.46%
TBF = 11.5 CU YD

(82) 112' - STORM SEWERS, CL A, TYPE 1 12" @ 0.49%
TBF = 49.6 CU YD

(83) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 0.8 CU YD

(84) 4' - STORM SEWERS, CL A, TYPE 1 12" @ 2.50%
TBF = 4.0 CU YD

(85) 96' - STORM SEWERS, CL A, TYPE 1 12" @ 0.47%
TBF = 6.1 CU YD

(86) 3' - STORM SEWERS, CL A, TYPE 1 12" @ 3.33%
TBF = 0.3 CU YD

(87) 3' - STORM SEWERS, CL A, TYPE 1 24" @ 3.33%
TBF = 13.2 CU YD

(88) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 0.8 CU YD

(89) 17' - STORM SEWERS, CL A, TYPE 1 12" @ 0.59%
TBF = 4.0 CU YD

(90) 48' - STORM SEWERS, CL A, TYPE 1 15" @ 0.31%
TBF = 0.0 CU YD

(91) 8' - STORM SEWERS, CL A, TYPE 1 12" @ 1.25%
TBF = 1.1 CU YD

(92) 1' - STORM SEWERS, CL A, TYPE 1 12" @ 10.00%
TBF = 0.0 CU YD

(93) 115' - STORM SEWERS, CL A, TYPE 1 24" @ 0.26%
TBF = 0.0 CU YD

(94) 55' - STORM SEWERS, CL A, TYPE 2 18" @ 0.27%
TBF = 19.0 CU YD

(95) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 1.0 CU YD

(96) 2' - STORM SEWERS, CL A, TYPE 2 12" @ 5.00%
TBF = 0.3 CU YD

(97) 8' - STORM SEWERS, CL A, TYPE 2 18" @ 0.71%
TBF = 1.4 CU YD

(98) 166' - STORM SEWERS, CL A, TYPE 1 24" @ 0.18%
TBF = 0.0 CU YD

(99) 16' - STORM SEWERS, CL A, TYPE 1 12" @ 0.63%
TBF = 0.5 CU YD

(100) 28' - STORM SEWERS, CL A, TYPE 1 12" @ 0.71%
TBF = 5.3 CU YD

(101) 1' - STORM SEWERS, CL A, TYPE 1 12" @ 10.00%
TBF = 0.0 CU YD

(102) 5' - STORM SEWERS, CL A, TYPE 1 24" @ 2.00%
TBF = 0.0 CU YD

(103) 37' - STORM SEWERS, CL A, TYPE 1 21" @ 0.23%
TBF = 0.0 CU YD

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB INLETS ARE AT THE FLOW LINE.

FILE NAME = ...\2278NG_D&U_12.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: | SHEET NO. 12 OF 13 SHEETS | STA | TO STA

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	65
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
QUANTITIES CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
QUANTITIES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

[113] STA. 312+22, 57.8' LT
PRC FLAR END SEC 24
W/ GRATING
INV = 883.91 (E)

[114] STA. 312+28, 57.8' LT
PRC FLAR END SEC 24
W/ GRATING
INV = 883.91 (E)

[115] STA. 312+78, 58.3' LT
PRC FLAR END SEC 18
INV = 884.00 (NE)

[116] STA. 313+40, 41.6' LT
MAN TA 6 DIA W/2 T1F OL R-PLT
RIM = 889.78
INV = 884.20 (N)
INV = 884.20 (SW)

[117] STA. 313+50, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 889.81
INV = 884.40 (E)
INV = 884.40 (N)
INV = 884.30 (S)

[118] STA. 313+50, 19.1' RT
CB TC T24F&G
RIM = 889.54
INV = 884.90 (W)

[119] STA. 313+50, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 889.89
INV = 884.75 (E)
INV = 884.75 (W)

[120] STA. 313+50, 36.5' LT
INLETS TB T24F&G
RIM = 889.41
INV = 884.60 (E)
INV = 884.50 (W)

[121] STA. 315+50, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 890.86
INV = 885.30 (E)
INV = 884.90 (N)
INV = 884.80 (S)

[122] STA. 315+50, 13.4' RT
CB TC T24 F&G
RIM = 890.65
INV = 885.75 (W)

[123] STA. 315+50, 9.0' LT
CB TA 4 DIA T24F&G
RIM = 890.94
INV = 885.65 (E)
INV = 885.65 (W)

[124] STA. 315+50, 36.5' LT
INLETS TB T24F&G
RIM = 890.46
INV = 885.50 (E)
INV = 885.40 (W)

[125] STA. 317+54, 41.6' LT
MAN TA 4 DIA T1F CL
RIM = 891.81
INV = 886.30 (E)
INV = 885.90 (N)
INV = 885.80 (S)

[126] STA. 317+64, 33.5' LT
CB TC T24F&G
RIM = 891.59
INV = 886.60 (S)

[127] STA. 317+54, 33.9' LT
INLETS TB T24F&G
RIM = 891.54
INV = 886.50 (N)
INV = 886.40 (W)

[128] STA. 320+39, 44.1' LT
CB TC T24F&G
RIM = 891.40
INV = 888.80 (N)

[129] STA. 320+49, 45.1' LT
CB TA 4 DIA T24F&G
RIM = 891.36
INV = 888.70 (S)
INV = 888.60 (W)

[130] STA. 320+49, 60.1' LT
PRC FLAR END SEC 12
INV = 888.50 (E)

[131] STA. 317+81, 39.0' LT
MAN TA 4 DIA T1F CL
RIM = 891.96
INV = 888.00 (W)
INV = 886.10 (N)
INV = 886.00 (S)

[132] STA. 317+81, 60.6' LT
PRC FLAR END SEC 12
INV = 888.50 (E)

[133] STA. 318+95, 60.6' LT
PRC FLAR END SEC 15
INV = 886.50 (S)

[134] STA. 282+85, 67.2' RT
SPECIAL GRATE NO. 1
RIM = 891.75
INV = 885.61

[200] STA. 280+90, 53.5' LT
PRC FLAR END SEC 15
INV = 884.41 (N)

[201] STA. 281+47, 60.2' LT
PRC FLAR END SEC 15
INV = 885.22 (S)

[202] STA. 300+53, 54.6' LT
PRC FLAR END SEC 15
INV = 884.25 (N)

[203] STA. 300+53, 52.3' LT
PRC FLAR END SEC 15
INV = 884.25 (N)

[204] STA. 301+02, 53.7' LT
PRC FLAR END SEC 15
INV = 884.54 (S)

[205] STA. 301+02, 51.4' LT
PRC FLAR END SEC 15
INV = 884.54 (S)

[206] STA. 302+12, 64.6' RT
PRC FLAR END SEC 15
INV = 885.25 (N)

[207] STA. 302+59, 64.6' RT
PRC FLAR END SEC 15
INV = 885.45 (S)

[208] STA. 303+33, 52.6' LT
PRC FLAR END SEC 15
INV = 885.91 (N)

[209] STA. 303+89, 52.6' LT
PRC FLAR END SEC 15
INV = 886.17 (S)

[210] STA. 303+99, 52.6' LT
PRC FLAR END SEC 15
INV = 886.24 (N)

[211] STA. 304+52, 52.6' LT
PRC FLAR END SEC 15
INV = 886.49 (S)

[212] STA. 306+89, 55.4' LT
PRC FLAR END SEC 15
INV = 886.90 (N)

[213] STA. 307+56, 54.0' LT
PRC FLAR END SEC 15
INV = 886.64 (S)

[214] STA. 308+67, 56.2' LT
PRC FLAR END SEC 15
INV = 885.33 (N)

[215] STA. 308+67, 53.8' LT
PRC FLAR END SEC 18
INV = 885.33 (N)

[216] STA. 309+29, 56.2' LT
PRC FLAR END SEC 15
INV = 885.10 (S)

[217] STA. 309+29, 53.8' LT
PRC FLAR END SEC 18
INV = 885.10 (S)

(104) 5' - PIPE CULVERTS, CL A, TYPE 1 24" @ 0.55%
TBF = 0.0 CU YD

(105) 5' - PIPE CULVERTS, CL A, TYPE I 24" @ 0.82%
TBF = 0.0 CU YD

(106) 55' - STORM SEWERS CL A , TYPE I 18" @ 0.33%
TBF = 0.0 CU YD

(107) 5' - STORM SEWERS CL A , TYPE 2 24" @ 2.00%
TBF = 0.0 CU YD

(108) 23' - STORM SEWERS CL A , TYPE I 12" @ 0.65%
TBF = 4.5 CU YD

(109) 26' - STORM SEWERS CL A , TYPE I 12" @ 0.58%
TBF = 5.3 CU YD

(110) 2' - STORM SEWERS CL A , TYPE I 12" @ 5.00%
TBF = 0.4 CU YD

(111) 196' - STORM SEWERS CL A , TYPE 2 24" @ 0.20%
TBF = 0.0 CU YD

(112) 20' - STORM SEWERS, CL A , TYPE I 12" @ 0.50%
TBF = 4.3 CU YD

(113) 24' - STORM SEWERS CL A , TYPE I 12" @ 0.62%
TBF = 5.2 CU YD

(114) 2' - STORM SEWERS CL A , TYPE I 12" @ 5.00%
TBF = 0.4 CU YD

(115) 200' - STORM SEWERS CL A , TYPE 2 18" @ 0.45%
TBF = 30.2 CU YD

(116) 8' - STORM SEWERS CL A , TYPE I 12" @ 1.25%
TBF = 1.6 CU YD

(117) 2' - STORM SEWERS CL A , TYPE I 12" @ 5.00%
TBF = 0.4 CU YD

(118) 7' - STORM SEWERS CL A , TYPE I 12" @ 1.43%
TBF = 0.9 CU YD

(119) 7' - STORM SEWERS CL A , TYPE I 12" @ 0.77%
TBF = 0.0 CU YD

(120) 23' - STORM SEWERS CL A , TYPE 2 18" @ 0.43%
TBF = 0.0 CU YD

(121) 14' - STORM SEWERS CL A , TYPE I 12" @ 2.50%
TBF = 0.0 CU YD

(122) 108' - STORM SEWERS CL A , TYPE I 15" @ 0.35%
TBF = 9.5 CU YD

(123) 36' - STORM SEWERS CL B , TYPE 2 10" @ 1.00%
TBF = 20.5 CU YD

(200) 43' - PIPE CULVERTS, CL A, TYPE 1 15" @ 1.47%
TBF = 3.7 CU YD

(201) 37' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.59%
TBF = 3.5 CU YD

(202) 37' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.59%
TBF = 3.5 CU YD

(203) 35' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.64%
TBF = 1.9 CU YD

(204) 43' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.47%
TBF = 3.1 CU YD

(205) 41' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.47%
TBF = 3.9 CU YD

(206) 54' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.39%
TBF = 2.7 CU YD

(207) 47' - PIPE CULVERTS, CL A, TYPE I 15" @ 0.39%
TBF = 4.1 CU YD

(208) 47' - PIPE CULVERTS, CL A, TYPE 1 18" @ 0.39%
TBF = 4.1 CU YD

(300) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(301) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(302) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(303) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(304) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(305) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(306) 77' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(307) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(308) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(309) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(310) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(311) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(312) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

(313) 67' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 2.5 CU YD

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB INLETS ARE AT THE FLOW LINE.

FILE NAME = ...\2278NG_D&U_13.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: | SHEET NO. 13 OF 13 SHEETS | STA | TO STA

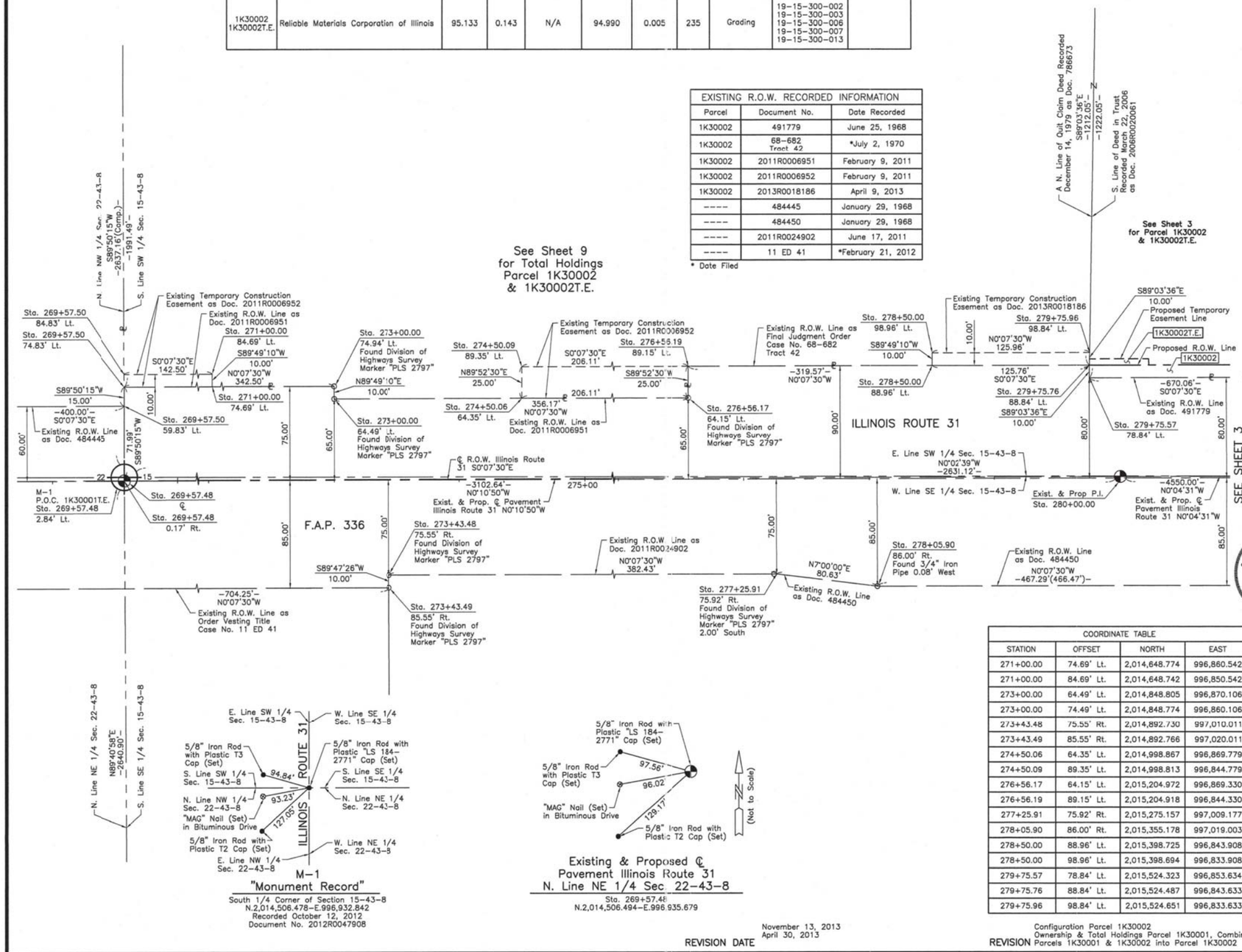
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	McHENRY	151	66
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE SOUTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30002 1K30002T.E.	Reliable Materials Corporation of Illinois	95.133	0.143	N/A	94.990	0.005	235	Grading	19-15-300-002 19-15-300-003 19-15-300-006 19-15-300-007 19-15-300-013	

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30002	491779	June 25, 1968
1K30002	68-682 Tract 42	*July 2, 1970
1K30002	2011R0006951	February 9, 2011
1K30002	2011R0006952	February 9, 2011
1K30002	2013R0018186	April 9, 2013
----	484445	January 29, 1968
----	484450	January 29, 1968
----	2011R0024902	June 17, 2011
----	11 ED 41	*February 21, 2012

* Date Filed



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
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

0 40' 80' SCALE: 1"=40' N

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

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

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
271+00.00	74.69' Lt.	2,014,648.774	996,860.542
271+00.00	84.69' Lt.	2,014,648.742	996,850.542
273+00.00	64.49' Lt.	2,014,848.805	996,870.106
273+00.00	74.49' Lt.	2,014,848.774	996,860.106
273+43.48	75.55' Rt.	2,014,892.730	997,010.011
273+43.49	85.55' Rt.	2,014,892.766	997,020.011
274+50.06	64.35' Lt.	2,014,998.867	996,869.779
274+50.09	89.35' Lt.	2,014,998.813	996,844.779
276+56.17	64.15' Lt.	2,015,204.972	996,869.330
276+56.19	89.15' Lt.	2,015,204.918	996,844.330
277+25.91	75.92' Rt.	2,015,275.157	997,009.177
278+05.90	86.00' Rt.	2,015,355.178	997,019.003
278+50.00	88.96' Lt.	2,015,398.725	996,843.908
278+50.00	98.96' Lt.	2,015,398.694	996,833.908
279+75.57	78.84' Lt.	2,015,524.323	996,853.634
279+75.76	88.84' Lt.	2,015,524.487	996,843.633
279+75.96	98.84' Lt.	2,015,524.651	996,833.633

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
269+57.48	℄	2,014,506.494	996,935.679
269+57.48	0.17' Rt.	2,014,506.495	996,935.853
269+57.48	2.84' Lt.	2,014,506.478	996,932.842
269+57.50	59.83' Lt.	2,014,506.317	996,875.853
269+57.50	74.83' Lt.	2,014,506.274	996,860.853
269+57.50	84.83' Lt.	2,014,506.246	996,850.853

RECEIVED
NOV 20 2013
PLATS & LEGALS

JORGENSEN & ASSOCIATES, INC.
520 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

REVISION DATE: November 13, 2013; April 30, 2013
REVISION: Configuration Parcel 1K30002; Ownership & Total Holdings Parcel 1K30001, Combined Parcels 1K30001 & 1K30002 into Parcel 1K30002
MADE BY

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 269+00 — TO STATION 280+00.00
SCALE: 1"=40' — SHEET 2 OF 11

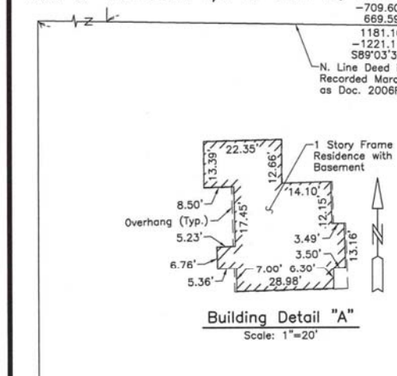
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) SECTION COUNTY McHENRY JOB NO. R-91-017-09

RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = ...\2278NG_POH_02.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -			3887	18W&RS-5 (12)	MCHENRY	151	67
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 60V72		
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -		SCALE: GRAPHIC / SHEET NO. 2 OF 11 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE SOUTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



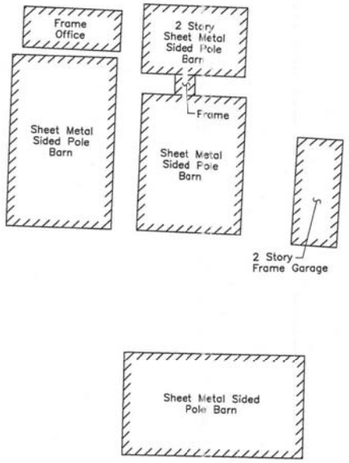
COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
281+50.00	98.95' Lt.	2,015,698.875	996,833.253
282+50.00	89.03' Lt.	2,015,798.888	996,843.035
282+50.00	99.03' Lt.	2,015,798.875	996,833.035
285+00.00	79.25' Lt.	2,016,048.900	996,852.490
285+00.00	89.25' Lt.	2,016,048.887	996,842.490
285+73.35	85.69' Rt.	2,016,122.464	997,017.330
285+73.49	124.95' Rt.	2,016,122.658	997,056.594
286+45.48	79.38' Lt.	2,016,194.376	996,852.173
286+46.18	119.38' Lt.	2,016,195.032	996,812.172

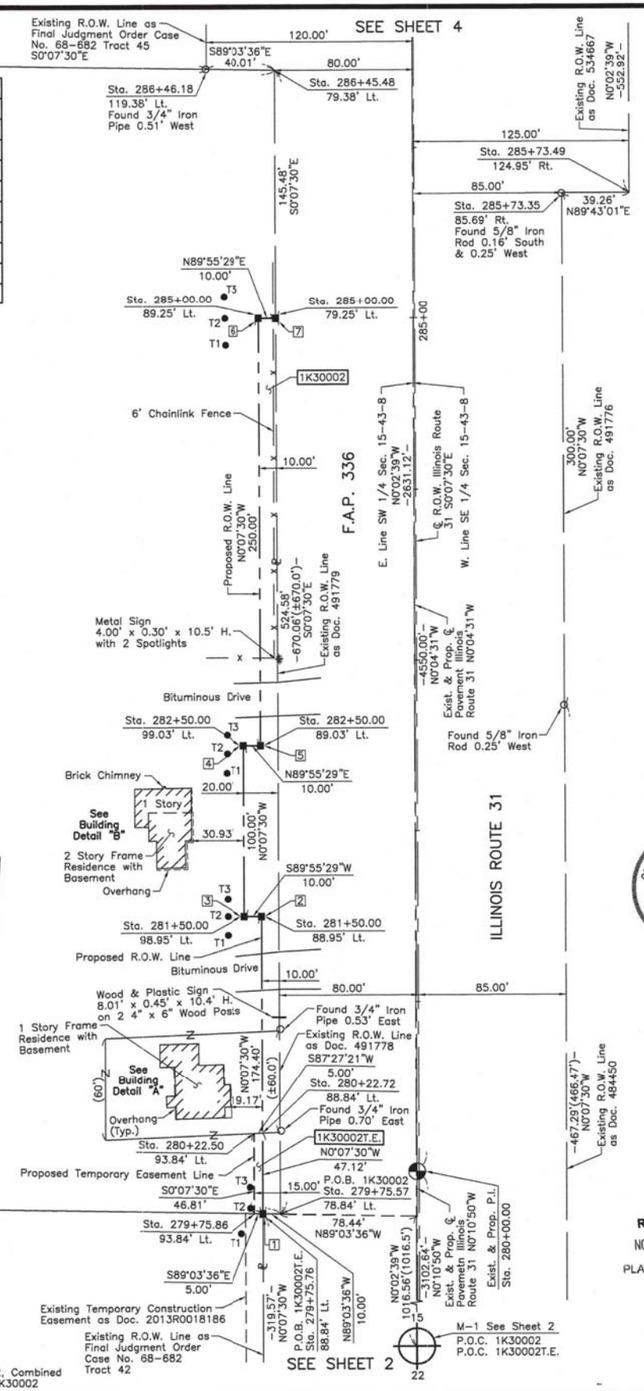
See Sheet 9 for Total Holdings Parcel 1K30002 & 1K30002T.E.

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	16.93
	T2	7.83
	T3	17.10
2	T1	22.83
	T2	20.01
	T3	22.52
3	T1	14.84
	T2	10.01
	T3	14.32
4	T1	19.11
	T2	11.10
	T3	11.83
5	T1	25.90
	T2	20.60
	T3	20.98
6	T1	25.28
	T2	20.22
	T3	24.48
7	T1	
	T2	
	T3	

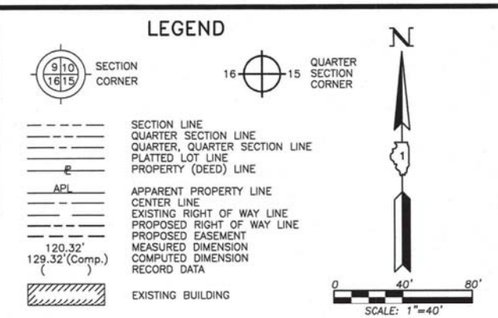
EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30002	491778	June 25, 1968
1K30002	491779	June 25, 1968
1K30002	68-682 Tract 42	*July 2, 1970
1K30002	2013R0018186	April 9, 2013
----	484450	January 29, 1968
----	491776	June 25, 1968
----	534667	December 14, 1970
----	68-682	*July 2, 1970

* Date Filed





LEGEND



Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

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

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
279+57.57	78.84' Lt.	2,015,524.323	996,853.634
279+75.76	88.84' Lt.	2,015,524.487	996,843.633
279+75.86	93.84' Lt.	2,015,524.569	996,838.633
280+22.50	93.84' Lt.	2,015,571.382	996,838.531
280+22.72	88.84' Lt.	2,015,571.604	996,843.531
281+50.00	88.95' Lt.	2,015,698.888	996,843.253

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

RECEIVED
NOV 20 2013
PLATS & LEGALS

PLAT OF HIGHWAYS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 279+00 — TO STATION 287+00
SCALE: 1"=40' — SHEET 3 OF 11

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

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30002 1K30002T.E.	Reliable Materials Corporation of Illinois	95.133	0.143	N/A	94.990	0.005	235	Grading	19-15-300-002 19-15-300-003 19-15-300-006 19-15-300-007 19-15-300-013	

November 13, 2013 — Configuration Parcel 1K30002
April 30, 2013 — Ownership & Total Holdings Parcel 1K30002, Combined Parcels 1K30001 & 1K30002 into Parcel 1K30002

REVISION DATE — REVISION

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) — SECTION — COUNTY McHENRY — JOB NO. R-91-017-09 — RECORDING: RECORDED ON — AS DOCUMENT NO. — MADE BY

FILE NAME = ...\2278NG_POH_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 3 OF 11 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	68
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE SOUTH 1/2 AND NORTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

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
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- SCALE: 1"=60'
- Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.
- IRON PIPE OR ROD FOUND
- "MAG" NAIL SET
- CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	23.58
	T2	13.96
	T3	21.54
2	T1	16.24
	T2	24.80
	T3	36.51
3	T1	39.84
	T2	25.80
	T3	16.45
4	T1	23.59
	T2	13.56
	T3	26.20
5	T1	30.40
	T2	23.56
	T3	32.66
6	T1	30.41
	T2	20.78
	T3	30.90
7	T1	27.14
	T2	15.78
	T3	27.69

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
291+25.80	60.21' Rt.	2,016,674.885	996,961.126
291+26.41	125.25' Rt.	2,016,675.578	997,056.167
294+00.00	70.03' Lt.	2,016,948.912	996,860.528
294+00.00	80.03' Lt.	2,016,948.898	996,850.528
295+72.94	70.18' Lt.	2,017,121.856	996,860.151
295+72.94	75.18' Lt.	2,017,121.845	996,855.151
295+77.04	75.18' Lt.	2,017,125.946	996,855.142
295+77.04	85.18' Lt.	2,017,125.933	996,845.142
295+88.59	0.19' Lt.	2,017,137.595	996,930.117
295+88.59	0.50' Rt.	2,017,137.598	996,920.812
296+29.04	75.23' Lt.	2,017,177.946	996,855.029
296+29.04	85.23' Lt.	2,017,177.933	996,845.029
299+93.31	75.54' Lt.	2,017,542.211	996,854.235
299+93.37	60.54' Lt.	2,017,542.290	996,869.235
300+59.31	75.60' Lt.	2,017,608.211	996,854.091
300+59.37	60.60' Lt.	2,017,608.290	996,869.091

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30003	68-682	*July 2, 1970
-----	534667	December 14, 1970
-----	68-682 Tract 41	*June 17, 1976

* Date Filed

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30003 1K30003T.E.	Chicago Title Land Trust Company as Trustee under Trust Agreement dated March 1, 2008 known as Trust No. 8002350374	24.315	0.512	*0.023	23.803	0.012	Grading	19-15-100-032 19-15-100-034 19-15-300-011 19-15-300-012	

* Area in Private Road

N. Line Deed in Trust Recorded March 22, 2006 as Doc. 2006R0020061

(381.82') — N89°03'36"W 669.60' — 1221.11'

N0°04'17"W 1588.43' (1206.61')

(729.25')

N. Line SW 1/4 Sec. 15-43-8 — 2643.07' N89°45'05"E — S. Line NW 1/4 Sec. 15-43-8

N. Line of South 1/2 20 Acres of E 1/2 NW 1/4 Sec. 15-43-8 N89°41'52"E 269.31'

120.32' 129.32'(Comp.) ( )

S0°04'14"E 190.00'

Found 3/4" Iron Pipe 0.12' North & 0.13' West

Found 3/4" Iron Pipe 0.09' North

(458.09')

MSC UNIT 1 Recorded June 7, 1989 as Document No. 89R017746

Lot 1

N89°41'53"E -458.27' - 443.27' - 358.27'

SEE SHEET 6

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 10th DAY OF October 20 12 A.D.

Christian H. Jorgensen PRESIDENT

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
286+45.48	79.38' Lt.	2,016,194.376	996,852.173
286+46.18	119.38' Lt.	2,016,195.032	996,812.172
288+55.69	119.56' Lt.	2,016,404.542	996,811.715
290+05.75	59.69' Lt.	2,016,554.672	996,871.388
290+27.29	79.71' Lt.	2,016,576.191	996,851.341
290+28.00	119.71' Lt.	2,016,576.848	996,811.339

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

SEE SHEET 3

Sta. 286+46.18 119.38' Lt. Found 3/4" Iron Pipe 0.51' West

Sta. 288+55.69 119.56' Lt.

Proposed R.O.W. Line N0°07'30"W 172.31'

Sta. 290+28.00 119.71' Lt.

209.51' S0°07'30"E

Existing R.O.W. Line as Final Judgment Order Case No. 68-682 Tract 45

S89°03'33"E 40.01'

S89°03'36"E 40.01'

181.56' S21°40'36"W

Existing R.O.W. Line as Final Judgment Order Case No. 68-682 Tract 45

Sta. 290+27.29 79.71' Lt.

(21.19')

Sta. 290+05.75 59.69' Lt. Found 3/4" Iron Pipe 0.36' West

Metal Billboard with Frame Catwalk 12.0' x 0.2' x 13.9' H. on 2 6" x 6" Wood Posts

Sta. 286+45.48 79.38' Lt.

E. Line SW 1/4 Sec. 15-43-8

-2631.12' N0°02'39"W

℄ R.O.W. Illinois Route 31 S0°07'30"E

W. Line SE 1/4 Sec. 15-43-8

290+00

ILLINOIS ROUTE 31

Existing R.O.W. Line as Doc. 534667 N0°02'39"W -552.92'

Proposed R.O.W Line

N0°07'30"W 372.71'

20.00' 1K30003

Wood Billboard 40.0' x 1.0' x 22.0' H on 4 Wood Posts & 3 "I" Beams

Boulder Retaining Wall

Gravel Parking Lot

Sta. 294+00.00 80.03' Lt.

N89°55'29"E 10.00'

Sta. 294+00.00 70.03' Lt.

Sta. 291+25.80 60.21' Rt. Found 5/8" Iron Rod 0.28' South & 0.24' West

N0°07'30"W 299.95'

Existing R.O.W. Line as Doc. 534667

Found 5/8" Iron Rod 0.23' West

Found 1/2" Iron Rod 0.23' West

S89°23'21"W (465.0') 65.04'

Sta. 291+26.41 125.25' Rt. Found 5/8" Iron Rod 0.29' South & 0.33' West

Sta. 295+77.04 85.18' Lt.

N89°55'29"E 10.00'

N0°07'30"W 4.10'

Sta. 295+72.94 75.18' Lt.

5" Dia. Metal Post 6.9' H.

S89°52'46"W 5.00'

N0°07'30"W 172.94'

(1032.43')

-1053.62' S0°07'30"E

Light Pole (Typ.)

Sta. 295+72.94 70.18' Lt.

295+00

Existing R.O.W. Line as Final Judgment Order Case No. 68-682 Tract 45

163.02' N0°07'30"W

1K30003T.E.

Proposed Temporary Easement Line

S0°07'30"E 52.00'

N0°07'30"W 52.00'

5" Dia. Metal Post 7.3' H.

Sta. 296+29.04 85.23' Lt.

S89°55'29"W 10.00'

Sta. 296+29.04 75.23' Lt.

Gravel Drive

4.5' Metal Gate on 2 5" x 5" Metal Posts in 3' Dia. Concrete Bases

P.O.B. 1K30003T.E. Sta. 295+77.04 75.18' Lt.

E. Line NW 1/4 Sec. 15-43-8

-2629.63' N0°02'39"W

W. Line NE 1/4 Sec. 15-43-8

Sta. 295+88.59 0.19' Lt.

M-3 See Sheet 5 Sta. 295+88.59 0.50' Rt.

Existing R.O.W. Line as Final Judgment Order Case No. 68-682 Tract 41

1K30004

Proposed R.O.W. Line

See Sheet 5 for Parcel 1K30004

F.A.P. 336

COBBLESTONE LANE (Private Road)

Gravel Parking Lot

Proposed R.O.W. Line N0°07'30"W 486.37'

15.00'

-4550.00' N0°04'31"W

Exist. & Prop. ℄ Pavement Illinois Route 31 N0°04'31"W

-1314.01'

Existing R.O.W. Line as Final Judgment Order Case No. 68-682 Tract 41

N0°07'30"W 66.00'

S89°41'53"W (100.00') 66.00'

N0°07'30"W 66.00'

S89°41'53"W 15.00'

Sta. 299+93.31 75.54' Lt.

Sta. 299+93.37 60.54' Lt.

66.00' S0°07'30"E

(190.00')

Sta. 300+59.31 75.60' Lt.

N89°41'53"E 15.00'

P.O.B. 1K30003 P.O.C. 1K30003T.E. Sta. 300+59.37 60.60' Lt. Found 3/4" Iron Pipe 0.06' South & 0.06' West

300+00

60.00'

125.00'

N. Line SE 1/4 Sec. 15-43-8 — N89°45'05"E 2640.60' — S. Line NE 1/4 Sec. 15-43-8

SEE SHEET 5

RECEIVED OCT 17 2012 PLATS & LEGALS

RECEIVED OCT 17 2012 PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 286+00 — TO STATION 301+00
SCALE: 1"=60' — SHEET 4 OF 11

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

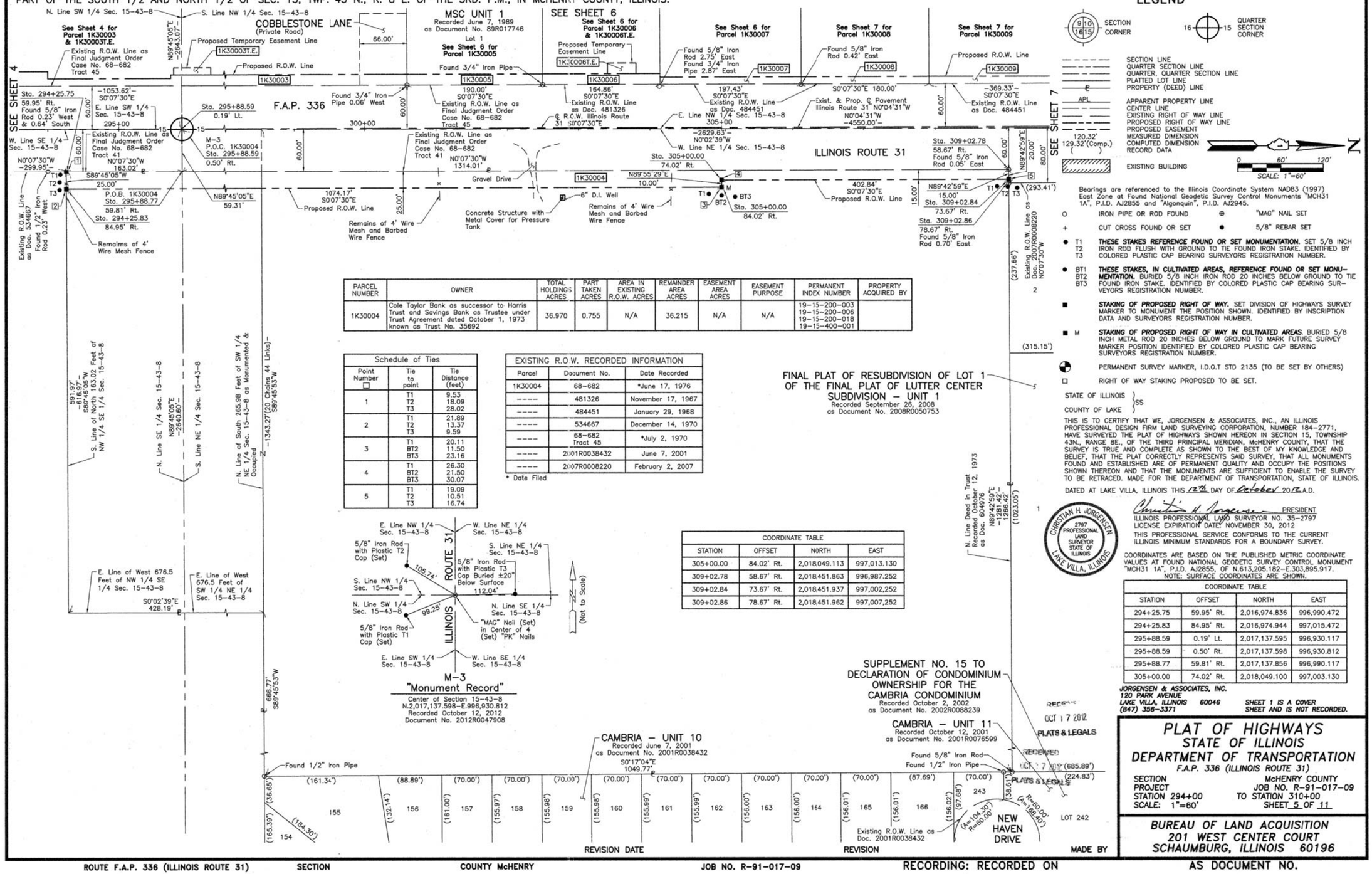
REVISION DATE | REVISION | MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) | SECTION | COUNTY McHENRY | JOB NO. R-91-017-09 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2278NG_POH_04.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS			
		DRAWN - DTE	REVISED -					
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: GRAPHIC	SHEET NO. 4 OF 11 SHEETS	STA.	TO STA.
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -					

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	69
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE SOUTH 1/2 AND NORTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30004	Cole Taylor Bank as successor to Harris Trust and Savings Bank as Trustee under Trust Agreement dated October 1, 1973 known as Trust No. 35692	36.970	0.755	N/A	36.215	N/A	N/A	19-15-200-003 19-15-200-006 19-15-200-018 19-15-400-001	

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	9.53
	T2	18.09
	T3	28.02
2	T1	21.89
	T2	13.37
	T3	9.59
3	T1	20.11
	BT2	11.50
	BT3	23.16
4	T1	26.30
	BT2	21.50
	BT3	30.07
5	T1	19.09
	T2	10.51
	T3	16.74

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30004	68-682	*June 17, 1976
-----	481326	November 17, 1967
-----	484451	January 29, 1968
-----	534667	December 14, 1970
-----	68-682 Tract 45	*July 2, 1970
-----	2001R0038432	June 7, 2001
-----	2007R0008220	February 2, 2007

* Date Filed

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
305+00.00	84.02' Rt.	2,018,049.113	997,013.130
309+02.78	58.67' Rt.	2,018,451.863	996,987.252
309+02.84	73.67' Rt.	2,018,451.937	997,002,252
309+02.86	78.67' Rt.	2,018,451.962	997,007,252

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
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

0 60' 120'
SCALE: 1"=60'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

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

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12TH DAY OF October 2012 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
294+25.75	59.95' Rt.	2,016,974.836	996,990.472
294+25.83	84.95' Rt.	2,016,974.944	997,015.472
295+88.59	0.19' Lt.	2,017,137.595	996,930.117
295+88.59	0.50' Rt.	2,017,137.598	996,930.812
295+88.77	59.81' Rt.	2,017,137.856	996,990.117
305+00.00	74.02' Rt.	2,018,049.100	997,003.130

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

RECEIVED OCT 17 2012 PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION 294+00 PROJECT
STATION 294+00 TO STATION 310+00
SCALE: 1"=60' SHEET 5 OF 11

McHENRY COUNTY
JOB NO. R-91-017-09

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

REVISION DATE | REVISION | MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) | SECTION | COUNTY McHENRY | JOB NO. R-91-017-09 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2278NG_PDH_05.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 5 OF 11 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	70
		CONTRACT NO. 60V72		

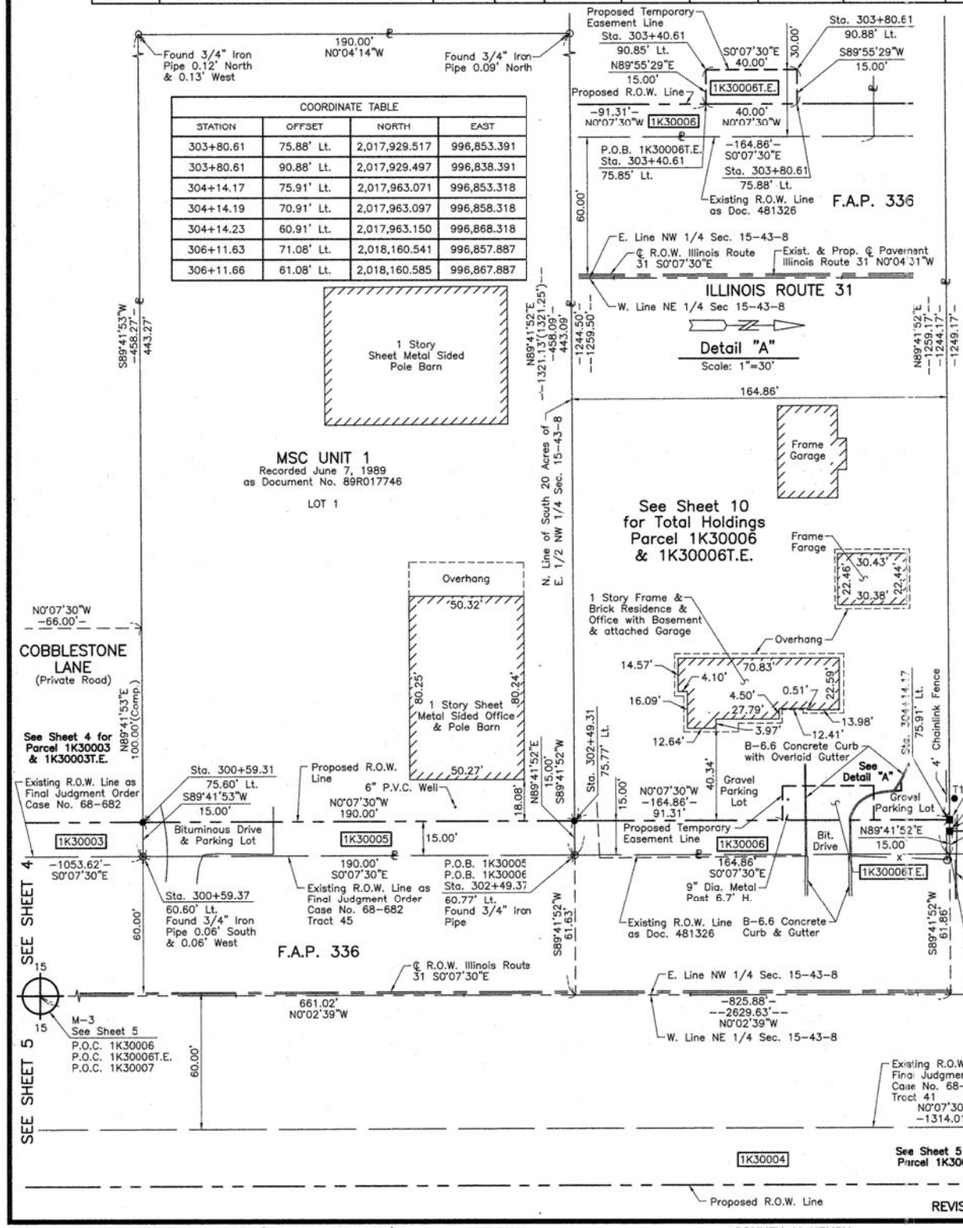
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

PART OF THE NORTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30005	Home State Bank, N.A., as successor to Home State Bank of Crystal Lake, as Trustee under Trust Agreement dated the 16th day of February, 1959, and known as Trust Number 3574	1.998	0.065	N/A	1.933	N/A	N/A	19-15-100-023	
1K30006 1K30006T.E.	Patron Properties, LLC, an Illinois limited liability company	4.766	0.057	N/A	4.709	0.014	Driveway Construction	19-15-100-009	
1K30007	8405 S. Route 31 Corp., an Illinois corporation	5.723	0.045	N/A	5.678	N/A	N/A	19-15-100-018	

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30005	68-682	*July 2, 1970
1K30006	481326	November 17, 1967
1K30007	484451	January 29, 1968
-----	484451	January 29, 1968
-----	68-682 Tract 41	*June 17, 1976

* Date Filed



Schedule of Ties		
Point Number ☐	Tie to point	Tie Distance (feet)
1	T1	9.56
	T2	13.22
	T3	21.98
2	T1	14.47
	T2	15.55
	T3	22.68

T2 & T3 to Point Nos. 1 & 2 are a "MAG" Nail (Set) in Bituminous Drive.

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
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

N

0 30' 60'

SCALE: 1"=30'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

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

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 10th DAY OF October 20 12 A.D.

Christian H. Jorgensen — PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
300+59.31	75.60' Lt.	2,017,608.211	996,854.091
300+59.37	60.60' Lt.	2,017,608.290	996,869.091
302+49.31	75.77' Lt.	2,017,798.210	996,853.677
302+49.37	60.77' Lt.	2,017,798.289	996,868.677
303+40.61	75.85' Lt.	2,017,889.517	996,853.478
303+40.61	90.85' Lt.	2,017,889.497	996,838.478

JORGENSEN & ASSOCIATES, INC.
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RECEIVED OCT 17 2012 PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 300+00 — TO STATION 307+00
SCALE: 1"=30' — SHEET 6 OF 11

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

REVISION DATE	REVISION	MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) | SECTION | COUNTY McHENRY | JOB NO. R-91-017-09 | RECORDING: RECORDED ON | AS DOCUMENT NO.

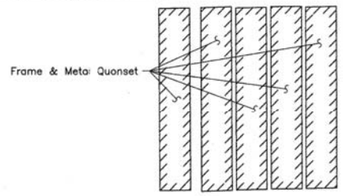
FILE NAME = ...\2278NG_POH_06.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -					3887	18W&RS-5 (12)	McHENRY	151	71
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -							CONTRACT NO. 60V72		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: GRAPHIC	SHEET NO. 6 OF 11 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE NORTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30008	Route 31 Associates, LLC an Illinois limited liability company	5.201	0.041	N/A	5.160	N/A	N/A	19-15-100-017	
1K30009	Kurt R. Maas Trustee of the Kurt R. Maas Trust under an Agreement dated November 10, 2001 as to an undivided 1/2 interest and Jane G. Maas Trustee of the Jane G. Maas Trust under an Agreement dated November 10, 2001 as to an undivided 1/2 interest	10.717	0.083	N/A	10.634	N/A	N/A	19-15-100-016	

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30008	484451	January 29, 1968
1K30009	484451	January 29, 1968
-----	481327	November 17, 1967
-----	484451	January 29, 1968
-----	68-682	*June 17, 1976
-----	2007R0007706	February 1, 2007
-----	2007R0008220	February 2, 2007

* Date Filed



COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
311+60.99	71.25' Lt.	2,018,709.902	996,857.000
311+61.00	61.56' Lt.	2,018,709.917	996,866.690

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	23.22
	T2	18.21
	T3	23.65

T1 & T2 to Point No. 1 are a "MAG" Nail (Set) in Bituminous Parking Lot.

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
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' — MEASURED DIMENSION
- 129.32'(Comp.) — COMPUTED DIMENSION
- ( ) — RECORD DATA
- EXISTING BUILDING

0 30' 60' — SCALE: 1"=30'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

- O IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ◒ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 11th DAY OF October 2012 A.D.

Christian H. Jorgensen — PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

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NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
306+11.63	71.08' Lt.	2,018,160.541	996,857.887
306+11.66	61.08' Lt.	2,018,160.585	996,867.887
307+91.63	71.24' Lt.	2,018,340.541	996,857.495
307+91.66	61.24' Lt.	2,018,340.585	996,867.495
309+02.78	58.67' Rt.	2,018,451.863	996,987.252
309+02.86	78.67' Rt.	2,018,451.962	997,007.252

JORGENSEN & ASSOCIATES, INC.
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SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

RECEIVED
OCT 17 2012
PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 306+00 — TO STATION 312+00
SCALE: 1"=30' — SHEET 7 OF 11

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

REVISION DATE	REVISION	MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) SECTION COUNTY McHENRY JOB NO. R-91-017-09 RECORDING: RECORDED ON AS DOCUMENT NO.

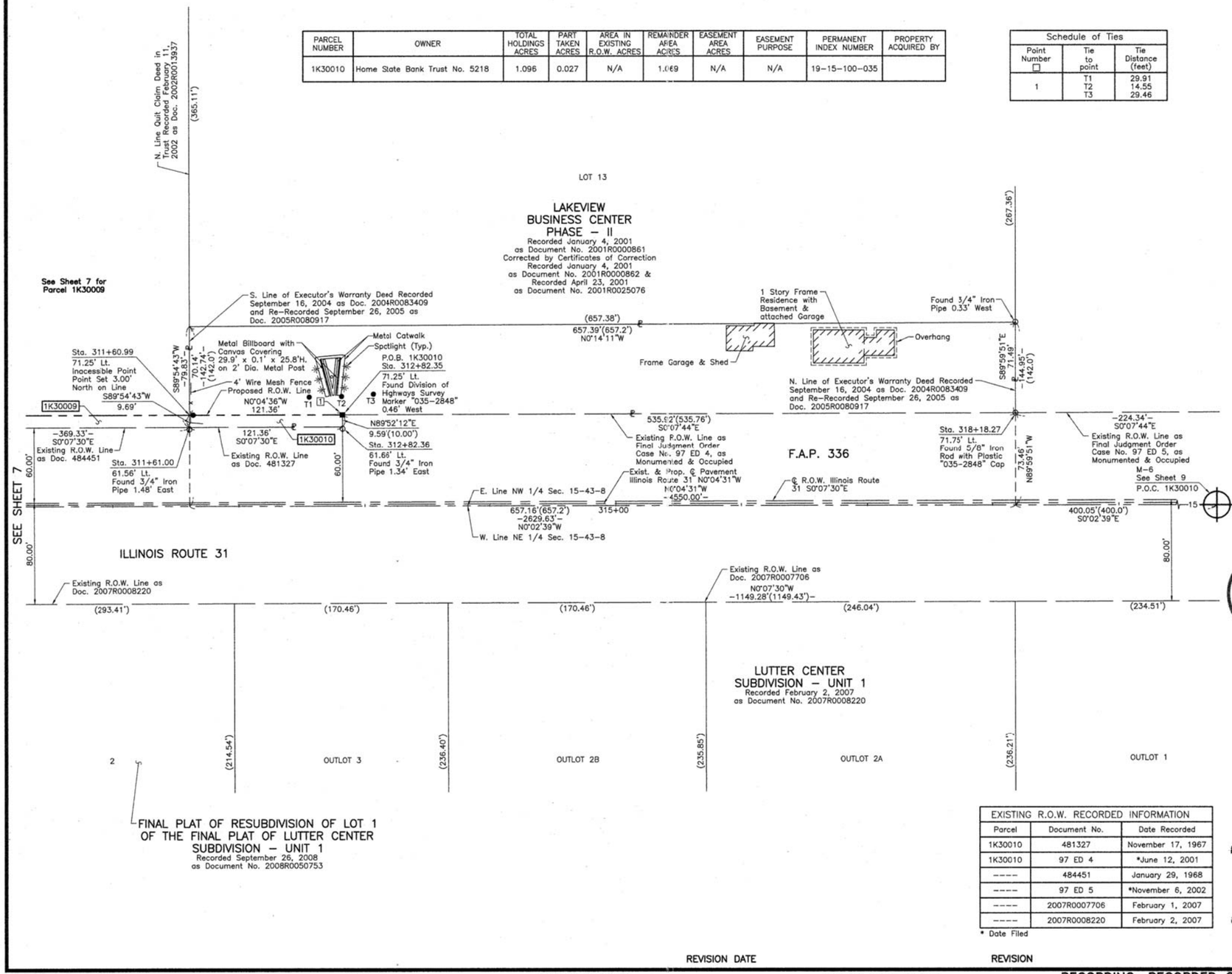
FILE NAME = ...\2278NG_POH_07.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PLAT OF HIGHWAYS**			
		DRAWN - DTE	REVISED -					
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: GRAPHIC	SHEET NO. 7 OF 11 SHEETS	STA.	TO STA.
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -					

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	72
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE NORTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1K30010	Home State Bank Trust No. 5218	1.096	0.027	N/A	1.069	N/A	N/A	19-15-100-035	

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	29.91
	T2	14.55
	T3	29.46



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
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

0 40' 80' N

SCALE: 1"=40'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 11th DAY OF October 2012 A.D.

Christian H. Jorgensen PRESIDENT

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
311+60.99	71.25' Lt.	2,018,709.902	996,857.000
311+61.00	61.56' Lt.	2,018,709.917	996,866.690
312+82.35	71.25' Lt.	2,018,831.260	996,856.838
312+82.36	61.66' Lt.	2,018,831.282	996,866.425
318+18.27	71.75' Lt.	2,019,367.176	996,855.632

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1K30010	481327	November 17, 1967
1K30010	97 ED 4	*June 12, 2001
----	484451	January 29, 1968
----	97 ED 5	*November 6, 2002
----	2007R0007706	February 1, 2007
----	2007R0008220	February 2, 2007

* Date Filed

RECEIVED OCT 17 2012 PLATS & LEGALS

RECEIVED OCT 17 2012 PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 311+00 — TO STATION 319+00
SCALE: 1"=40' — SHEET 8 OF 11

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

REVISION DATE | REVISION | MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) | SECTION | COUNTY McHENRY | JOB NO. R-91-017-09 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2278NG_POH_08.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

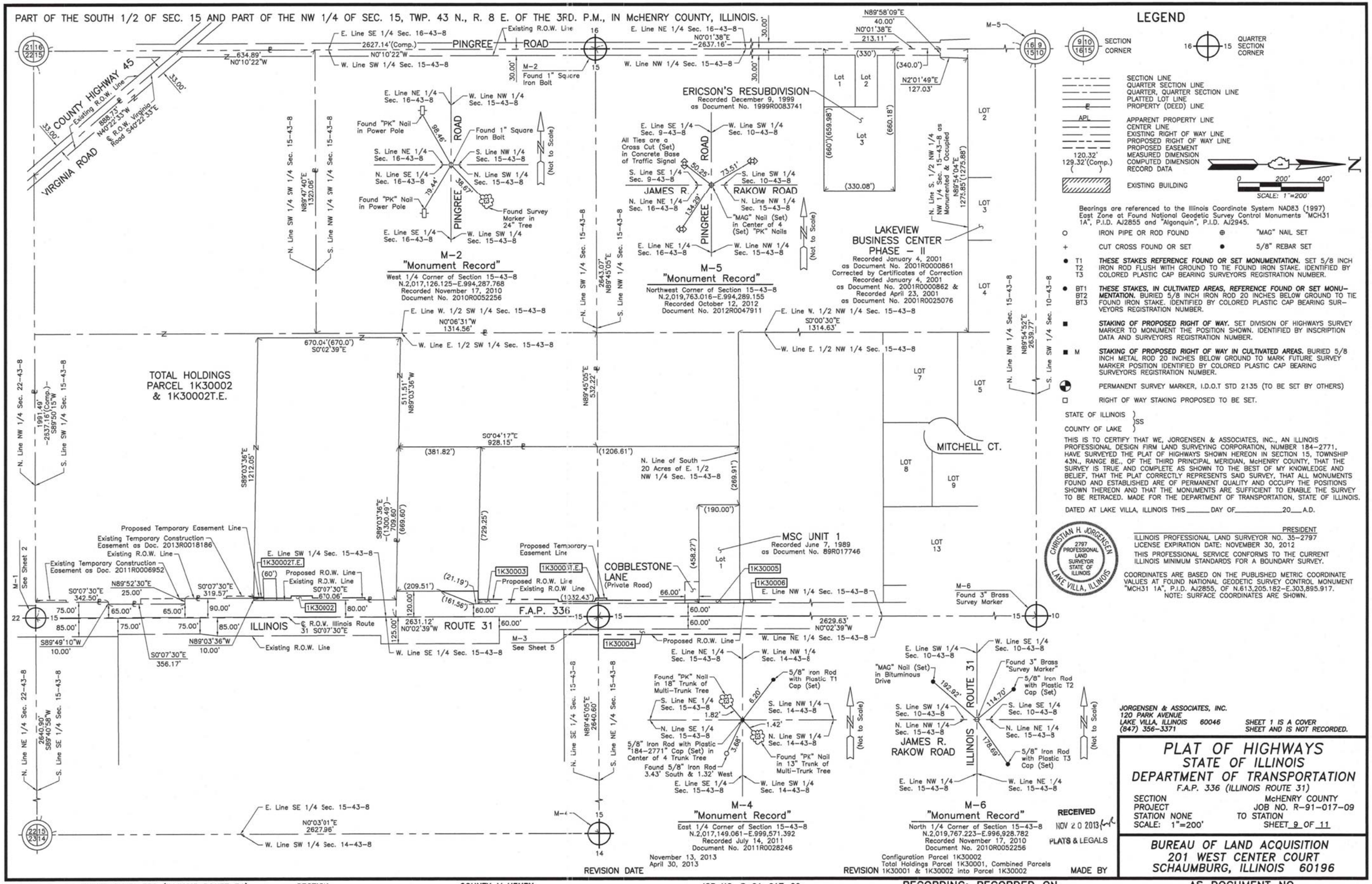
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 8 OF 11 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	73
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE SOUTH 1/2 OF SEC. 15 AND PART OF THE NW 1/4 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

0 200' 400'
SCALE: 1"=200'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

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

STATE OF ILLINOIS }
SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

_____ PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182-E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION NONE — TO STATION
SCALE: 1"=200' — SHEET 9 OF 11

RECEIVED
NOV 20 2013
PLATS & LEGALS

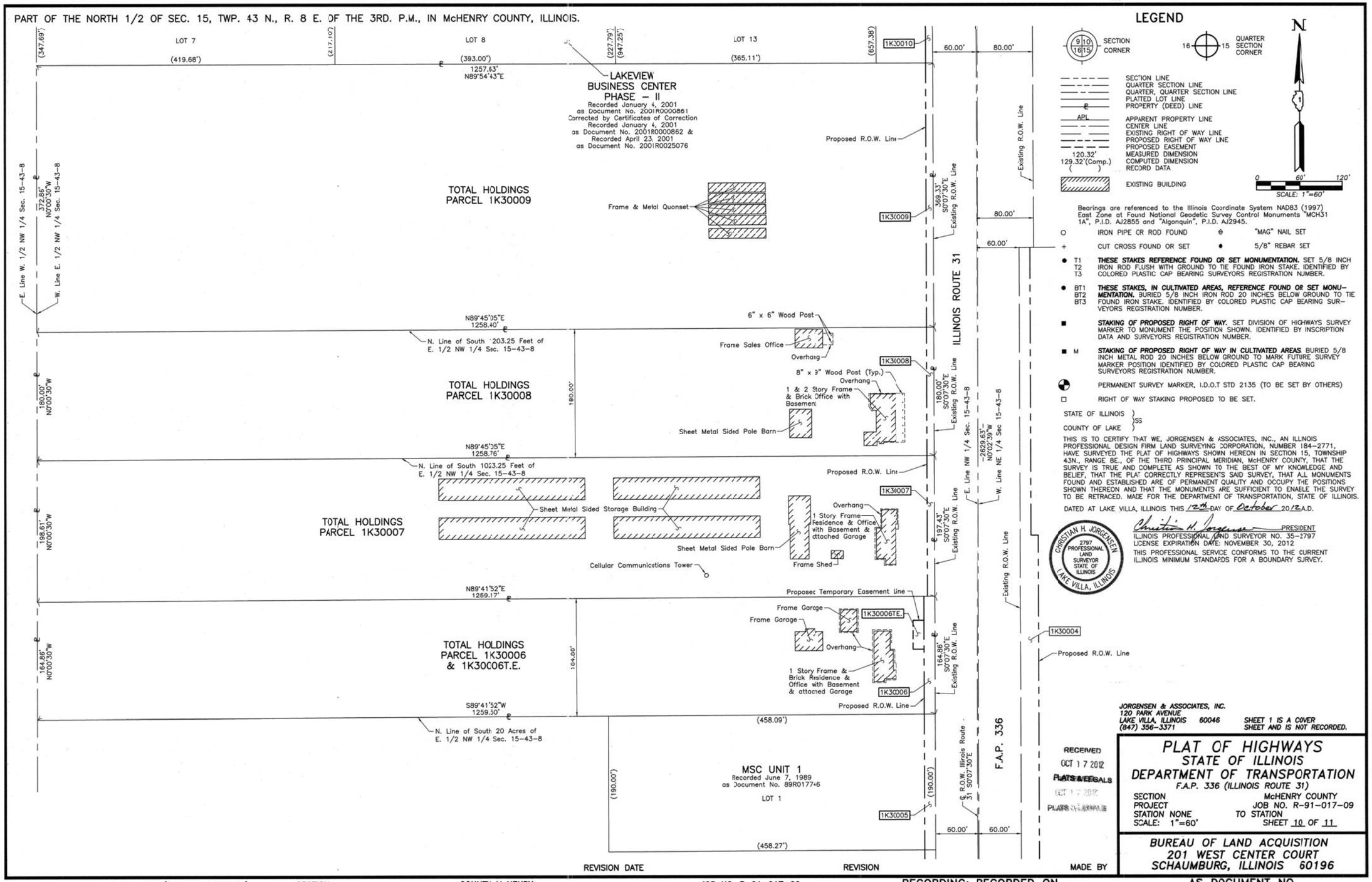
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION — Configuration Parcel 1K30002 Total Holdings Parcel 1K30001, Combined Parcels 1K30001 & 1K30002 into Parcel 1K30002 — November 13, 2013 — April 30, 2013 — MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) — SECTION — COUNTY McHENRY — JOB NO. R-91-017-09 — RECORDING: RECORDED ON — AS DOCUMENT NO.

FILE NAME = ...\2278NG_POH_09.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -			3887	18W&RS-5 (12)	MCHENRY	151	74
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 60V72		
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -		SCALE: GRAPHIC / SHEET NO. 9 OF 11 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PART OF THE NORTH 1/2 OF SEC. 15, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



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
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.32' — MEASURED DIMENSION
129.32'(Comp.) — COMPUTED DIMENSION
( ) — RECORD DATA
EXISTING BUILDING

N

0 60' 120'
SCALE: 1"=60'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

O IRON PIPE OR ROD FOUND — ⊖ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET — ● 5/8" REBAR SET

● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

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

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

■ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 15, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12TH DAY OF October 2012 A.D.

Christian H. Jorgensen — PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356–3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

RECEIVED
OCT 17 2012
PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION NONE — TO STATION
SCALE: 1"=60' — SHEET 10 OF 11

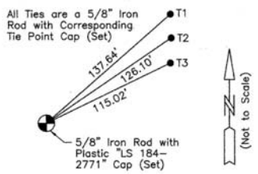
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

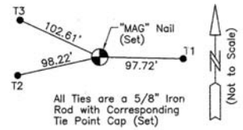
ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) | SECTION | COUNTY McHENRY | JOB NO. R-91-017-09 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2278NG_POH_10.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -					3887	18W&RS-5 (12)	MCHENRY	151	75
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -							CONTRACT NO. 60V72		
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		SCALE: GRAPHIC	SHEET NO. 10 OF 11 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

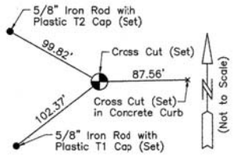
PART OF THE SOUTH 1/2 OF SEC. 10, PART OF THE SOUTH 1/2 OF SEC. 15, PART OF THE NORTH 1/2 OF SEC. 15 AND PART OF THE NORTH 1/2 OF SEC. 22, TWP. 43 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



Existing & Proposed P.I.
Illinois Route 31
Sta. 248+97.36
N.2,012,446.378–E.996,942.167



Existing & Proposed P.I.
Illinois Route 31
Sta. 280+00.00
N.2,015,549.008–E.996,932.396



Existing P.O.T.
Illinois Route 31
Sta. 325+50.00
N.2,020,099.001–E.996,926.426

LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.32' MEASURED DIMENSION
129.32'(Comp.) COMPUTED DIMENSION
( ) RECORD DATA
EXISTING BUILDING

0 200' 400'
SCALE: 1"=200'

Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found National Geodetic Survey Control Monuments "MCH31 1A", P.I.D. AJ2855 and "Algonquin", P.I.D. AJ2945.

O IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

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

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PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
}SS
COUNTY OF LAKE }

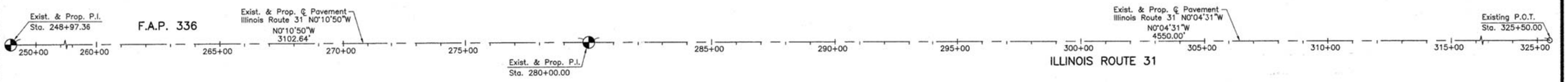
THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 10, TOWNSHIP 43N., RANGE 8E. AND SECTION 22, TOWNSHIP 43N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY 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. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12th DAY OF October 2012 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND NATIONAL GEODETIC SURVEY CONTROL MONUMENT "MCH31 1A", P.I.D. AJ2855, OF N.613,205.182–E.303,895.917.
NOTE: SURFACE COORDINATES ARE SHOWN.



JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

RECEIVED
OCT 17 2012
PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 336 (ILLINOIS ROUTE 31)

SECTION — McHENRY COUNTY
PROJECT — JOB NO. R-91-017-09
STATION 248+97.36 — TO STATION 325+50.00
SCALE: 1"=200' — SHEET 11 OF 11

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

REVISION DATE	REVISION	MADE BY

ROUTE F.A.P. 336 (ILLINOIS ROUTE 31) SECTION COUNTY McHENRY JOB NO. R-91-017-09 RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = ...\2278NG_POH_11.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 11 OF 11 SHEETS | STA. | TO STA.

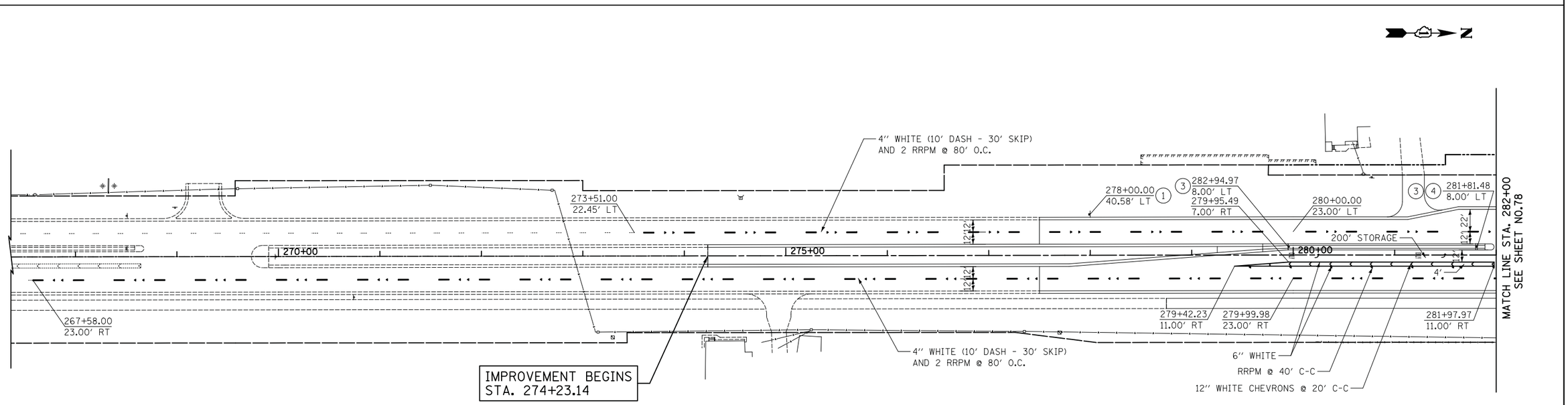
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	76
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGN LEGEND

1		R2-1, 30″x36″
3		R3-5L, 24″x30″
4		R4-7, 24″x30″
5		RELOCATE SIGN PANEL ASSEMBLY, 36″x36″
6		M1-I100, 24″x24″
7		M3-1, 24″x12″
8		M3-3, 24″x12″
9		R3-SPECIAL, 24″x30″
10		RELOCATE SIGN PANEL ASSEMBLY, 48″x36″
11		RELOCATE SIGN PANEL ASSEMBLY, 24″x30″
12		RELOCATE SIGN PANEL ASSEMBLY, 18″x24″
13		RELOCATE SIGN PANEL ASSEMBLY, 30″x36″
14		RELOCATE SIGN PANEL ASSEMBLY, 24″x30″

RAISED PAVEMENT MARKINGS LEGEND

- ◁ ONE-WAY CRYSTAL
- ◀ ONE-WAY AMBER
- ◆ TWO-WAY AMBER



NOTE: ALL PERMANENT PAVEMENT MARKINGS SHALL BE POLYUREA TYPE I UNLESS OTHERWISE NOTED

50 0 50
SCALE IN FEET

ILLINOIS ROUTE 31

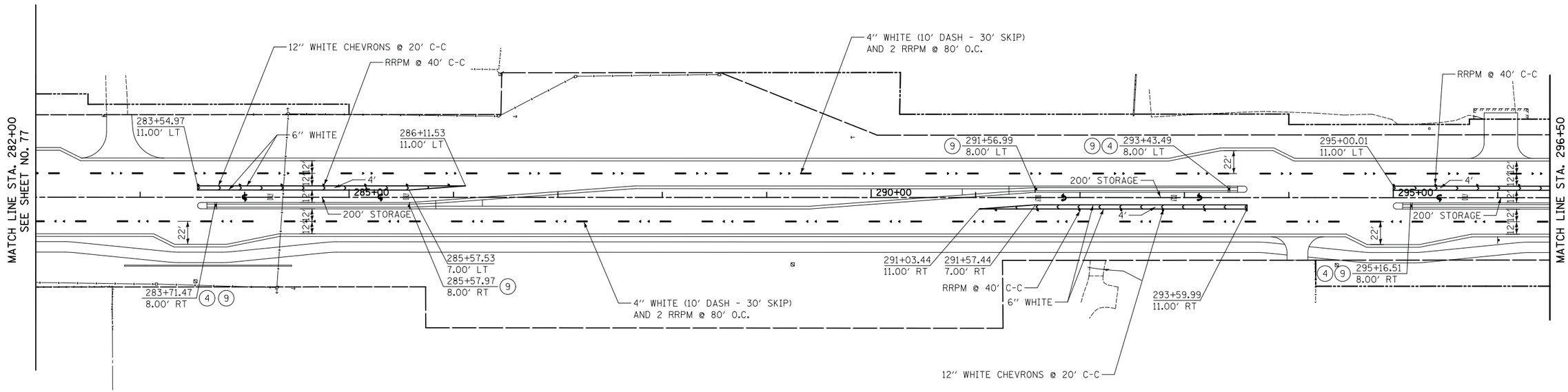
FILE NAME = ...\2278NG_PMK_01.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ′ / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

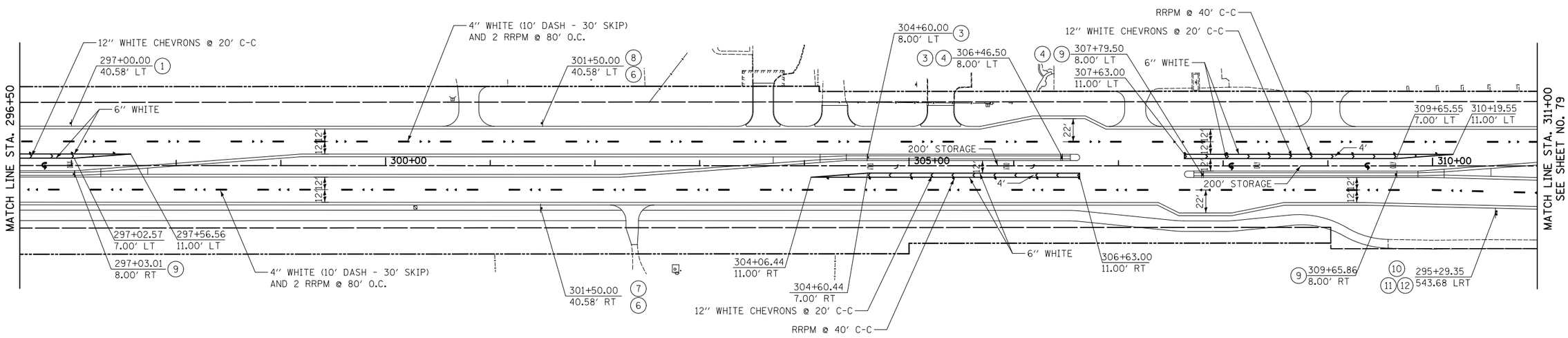
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1″ = 50′ | SHEET NO. 1 OF 3 SHEETS | STA. 274+23.14 TO STA. 282+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	77
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



ILLINOIS ROUTE 31



NOTE: ALL PERMANENT PAVEMENT MARKINGS SHALL BE POLYUREA TYPE I UNLESS OTHERWISE NOTED

SEE SHEET 77 FOR SIGN LEGEND

ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

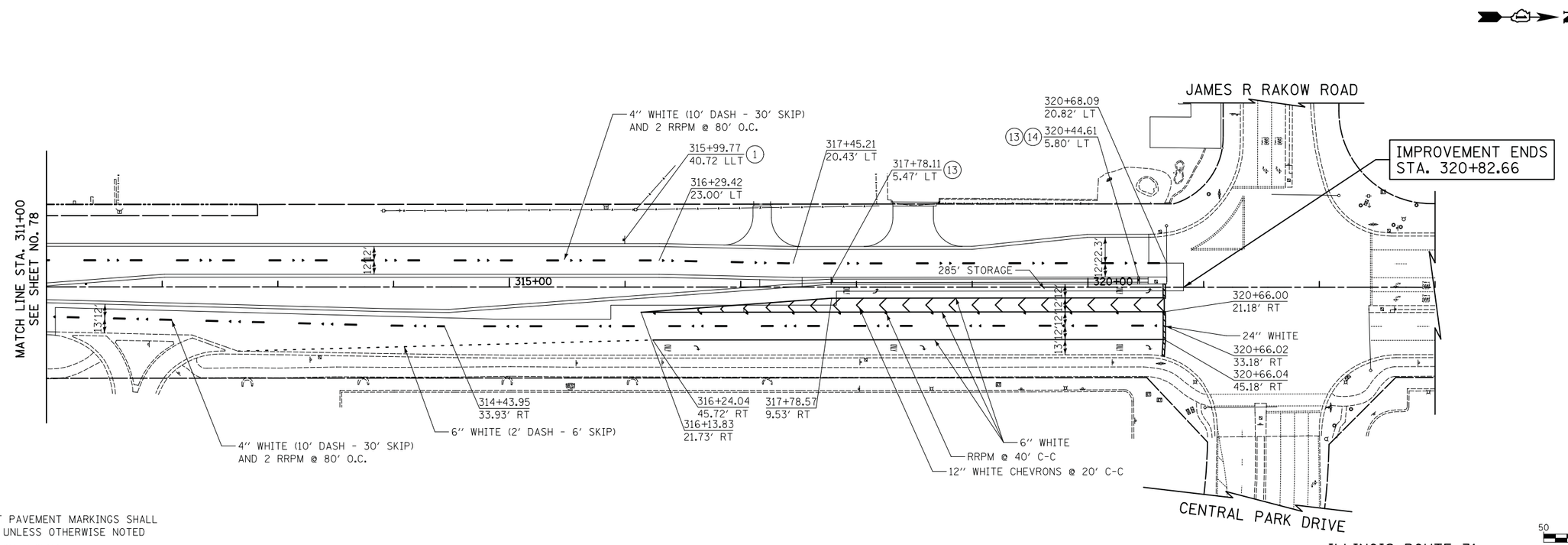
FILE NAME = ...\2278NG_PMK_02.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. 282+00 TO STA. 311+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	78
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE: ALL PERMANENT PAVEMENT MARKINGS SHALL BE POLYUREA TYPE I UNLESS OTHERWISE NOTED

SEE SHEET 77 FOR SIGN LEGEND

FILE NAME = ...\2278NG_PMK_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 9/6/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. 311+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	79
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

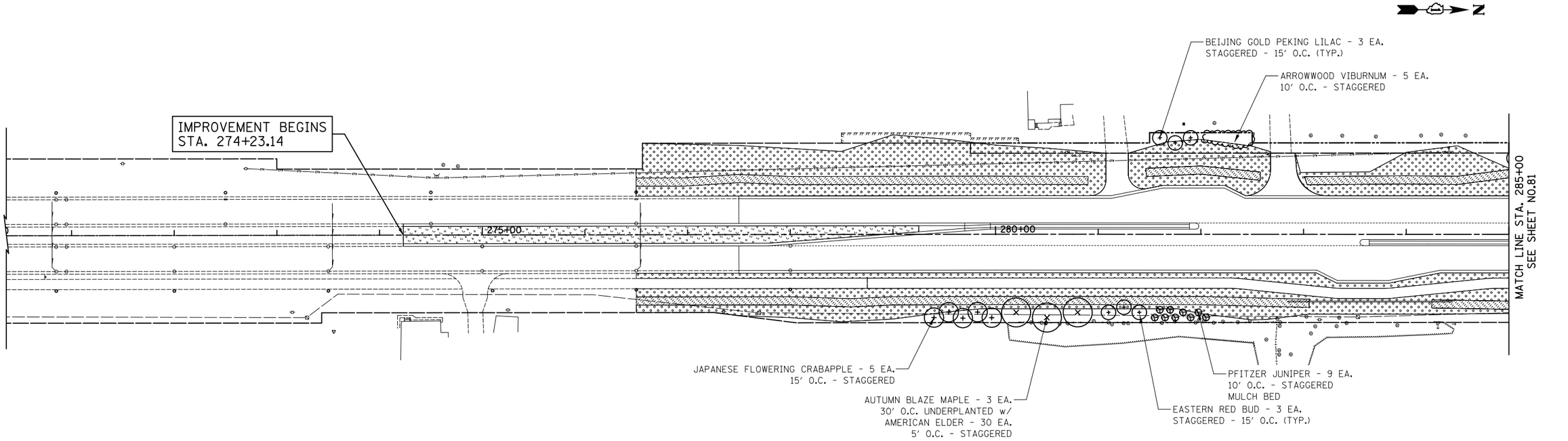
SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 4 INCH

SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 24 INCH
(PLACE IN LANDSCAPED MEDIANS)

SEEDING, CLASS 4
TOPSOIL FURNISH AND PLACE, 4 INCH

SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 4 INCH

NOTE:
1. PERMANENT SEEDING SHALL BE COVERED WITH EROSION CONTROL BLANKET



ILLINOIS ROUTE 31

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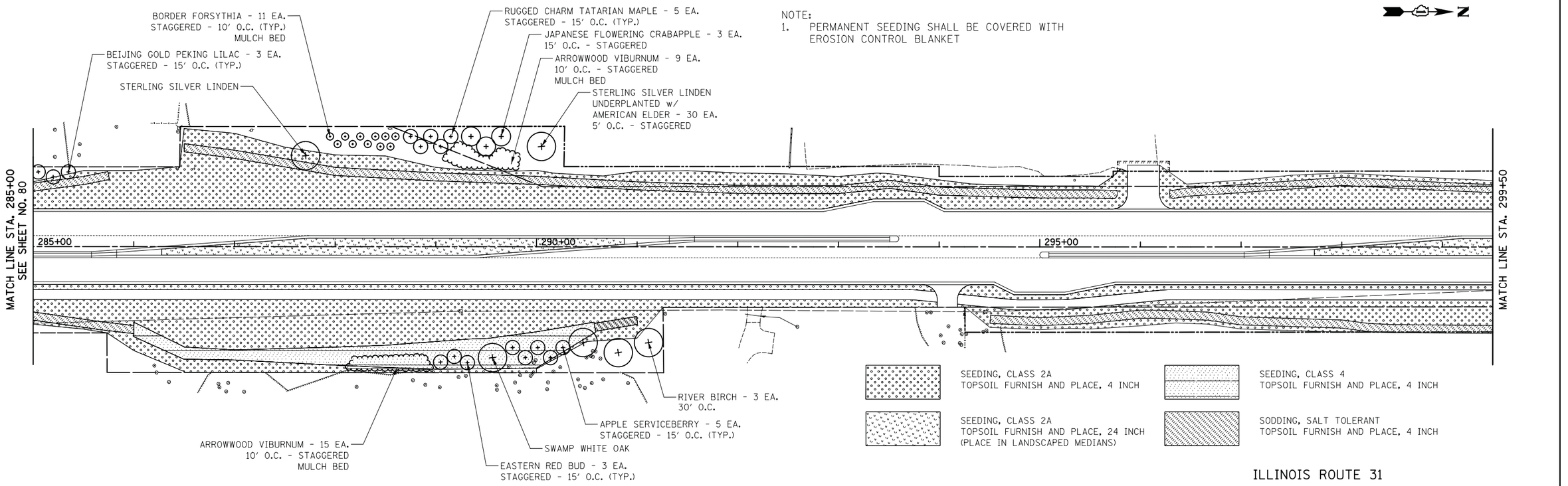
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

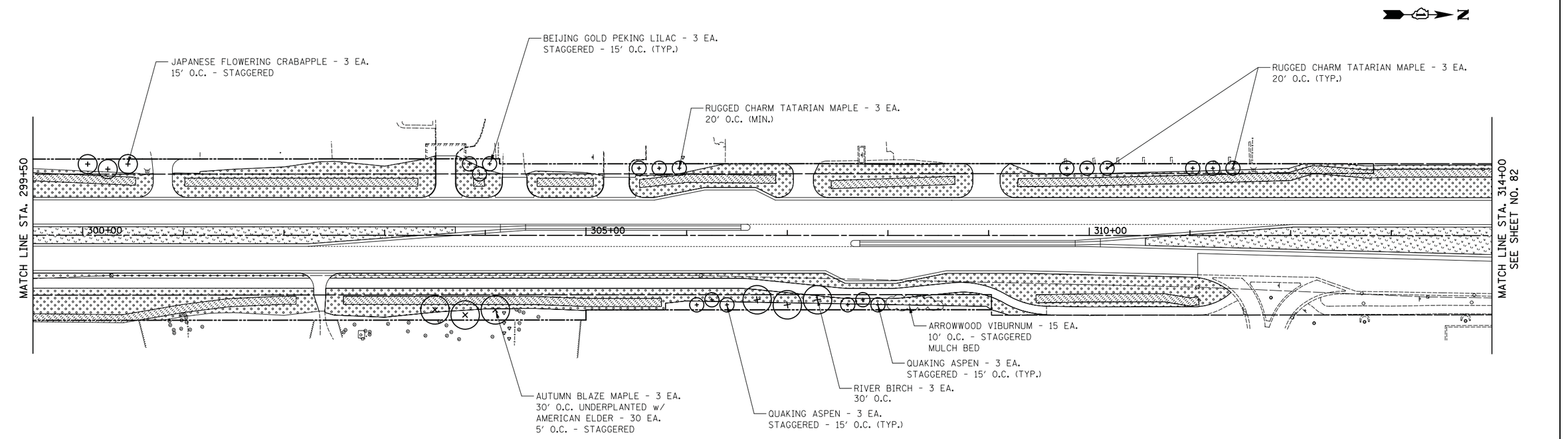
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. 274+23.14 TO STA. 285+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	80
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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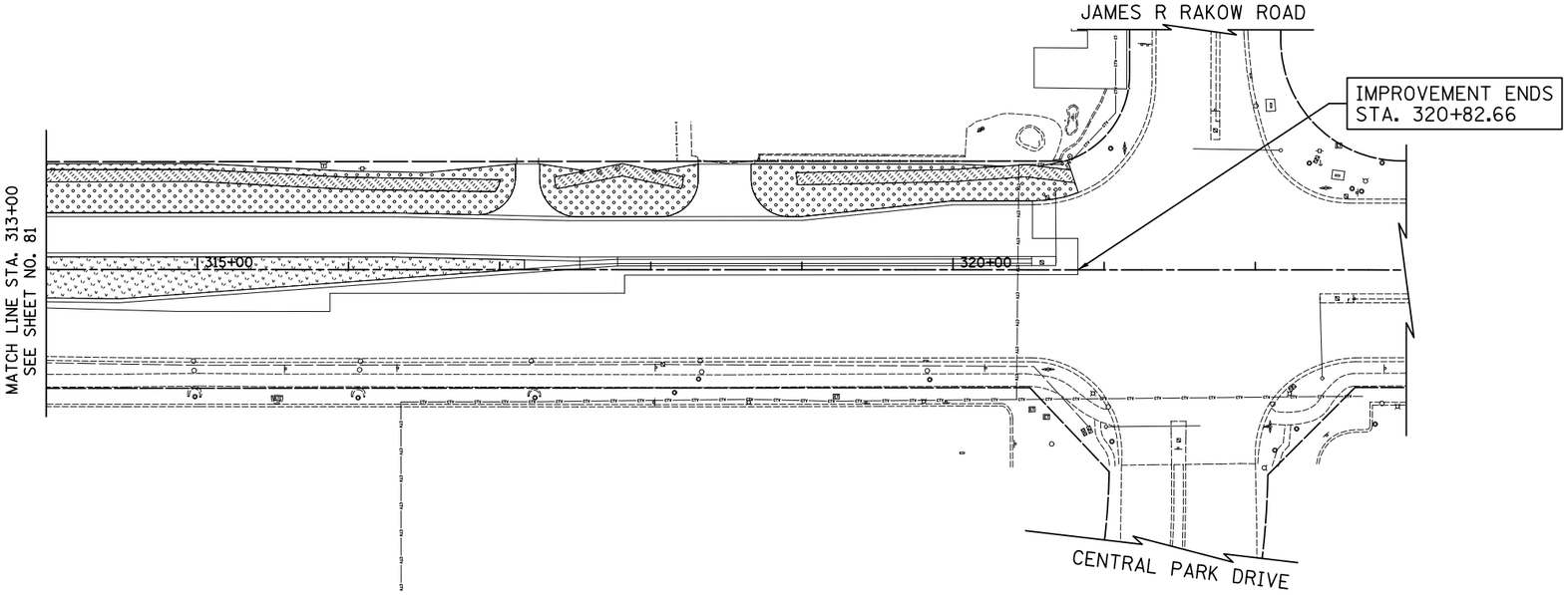
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. 285+00 TO STA. 313+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	81
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 4 INCH

SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 24 INCH
(PLACE IN LANDSCAPED MEDIANS)

SEEDING, CLASS 4
TOPSOIL FURNISH AND PLACE, 4 INCH

SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 4 INCH

NOTE:
1. PERMANENT SEEDING SHALL BE COVERED WITH EROSION CONTROL BLANKET

ILLINOIS ROUTE 31

50 0 50
SCALE IN FEET

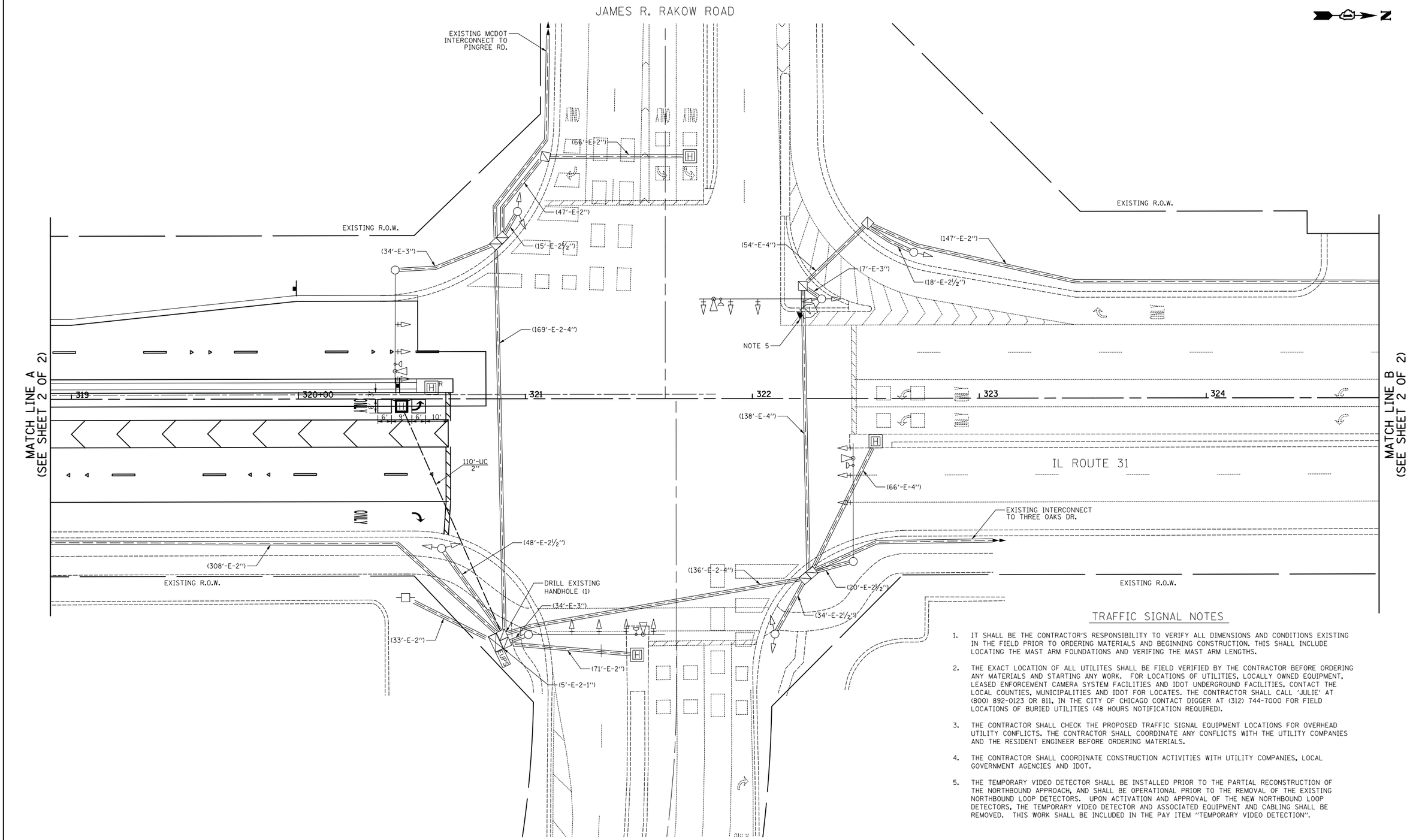
FILE NAME = ...\2278NG_LSC_03.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - PML	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. 313+00 TO STA. 320+82.66

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	82
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TRAFFIC SIGNAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFING THE MAST ARM LENGTHS.

2. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

5. THE TEMPORARY VIDEO DETECTOR SHALL BE INSTALLED PRIOR TO THE PARTIAL RECONSTRUCTION OF THE NORTHBOUND APPROACH, AND SHALL BE OPERATIONAL PRIOR TO THE REMOVAL OF THE EXISTING NORTHBOUND LOOP DETECTORS. UPON ACTIVATION AND APPROVAL OF THE NEW NORTHBOUND LOOP DETECTORS, THE TEMPORARY VIDEO DETECTOR AND ASSOCIATED EQUIPMENT AND CABLING SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY VIDEO DETECTION".

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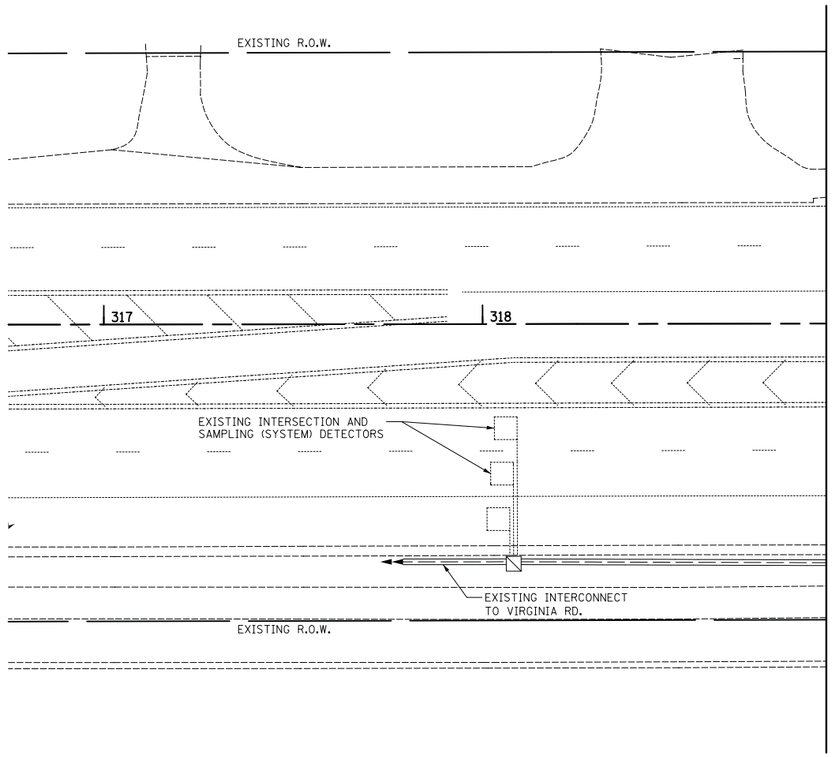
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

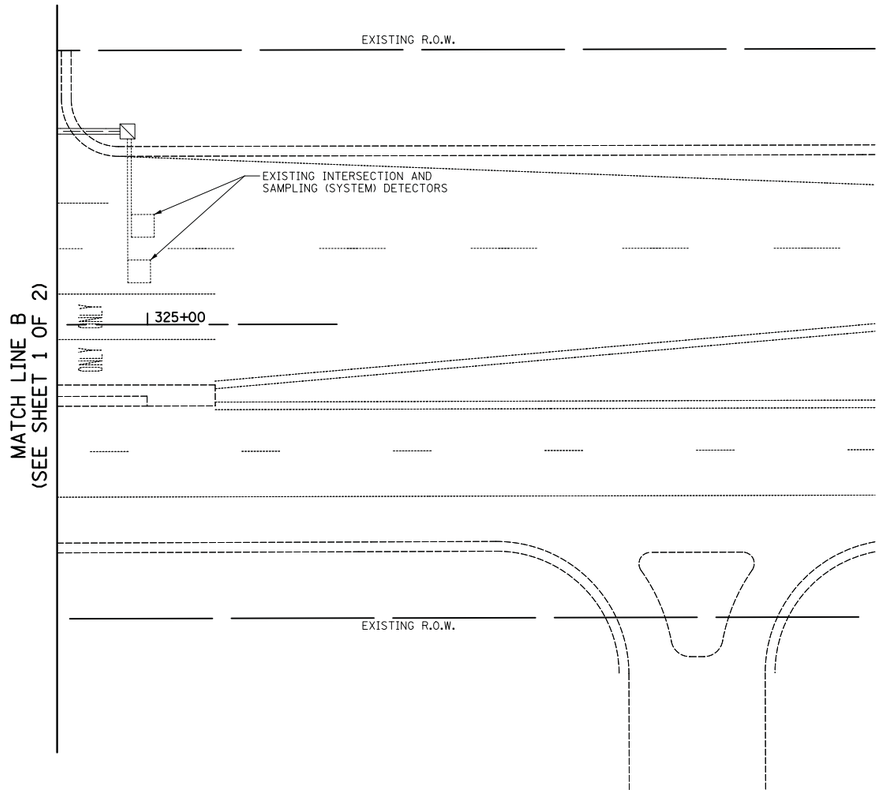
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 31 AT RAKOW ROAD

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	83
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

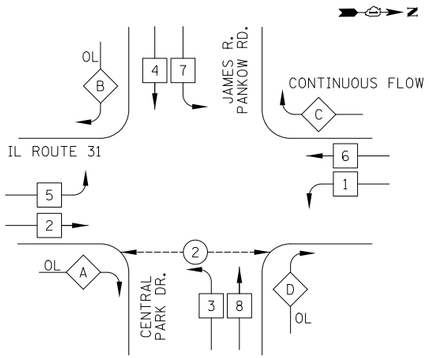
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 31 AT RAKOW ROAD

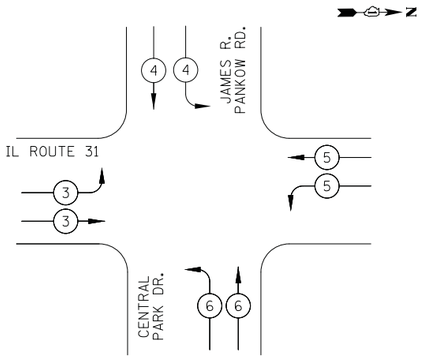
SCALE: 1" = 20' | SHEET OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	84
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- • — NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	CONTINUOUS FLOW		
D	=	8	+	1

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

CABLE PLAN

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	21		17	0.50	187
(YELLOW)	21		25	0.25	138
(GREEN)	23		15	0.25	83
ARROW	12		12	0.10	17
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM			150	1.00	
				TOTAL =	575

ENERGY COSTS TO: CITY OF CRYSTAL LAKE
100 WEST MUNICIPAL COMPLEX
CRYSTAL LAKE, IL 60014
ENERGY SUPPLY: CONTACT: MS. AUDRY HELGESEN
PHONE: 847-816-5225
COMPANY: COMED - LIBERTYVILLE

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	110
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	139
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	52
REMOVE EXISTING HANDHOLE	EACH	1
TEMPORARY VIDEO DETECTION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TRAFFIC SIGNAL NOTES

1. THE TEMPORARY VIDEO DETECTOR SHALL BE INSTALLED PRIOR TO THE PARTIAL RECONSTRUCTION OF THE NORTHBOUND APPROACH, AND SHALL BE OPERATIONAL PRIOR TO THE REMOVAL OF THE EXISTING NORTHBOUND LOOP DETECTORS. UPON ACTIVATION AND APPROVAL OF THE NEW NORTHBOUND LOOP DETECTORS, THE TEMPORARY VIDEO DETECTOR AND ASSOCIATED EQUIPMENT AND CABLING SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY VIDEO DETECTION".

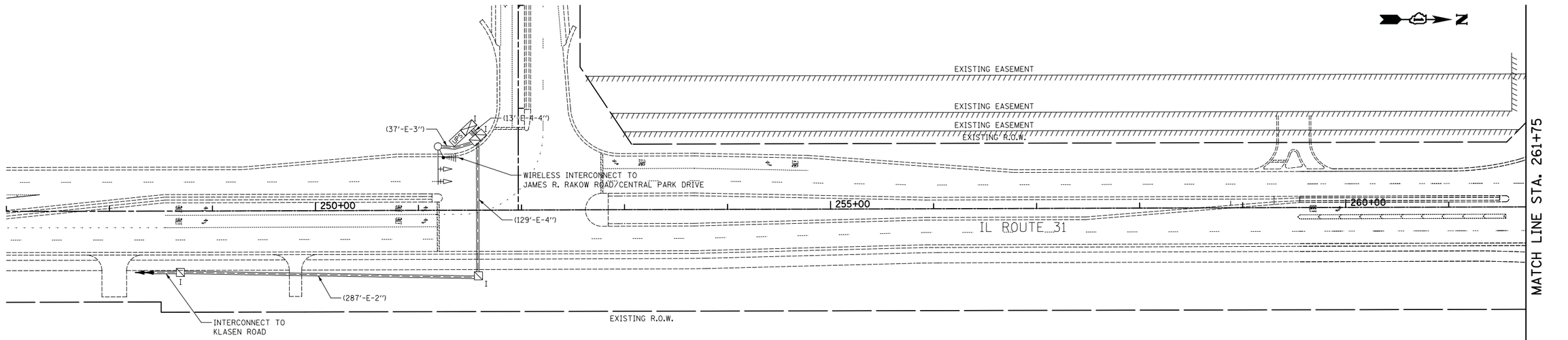
FILE NAME = ...\2278NG-ts03.dgn	USER NAME = kwh	DESIGNED - BRD	REVISED -
Default		DRAWN - MFB	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES
IL ROUTE 31 AT RAKOW ROAD

NO SCALE | SHEET 1 OF 1 SHEETS | STA. 317+00 | TO STA. 325+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	85
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

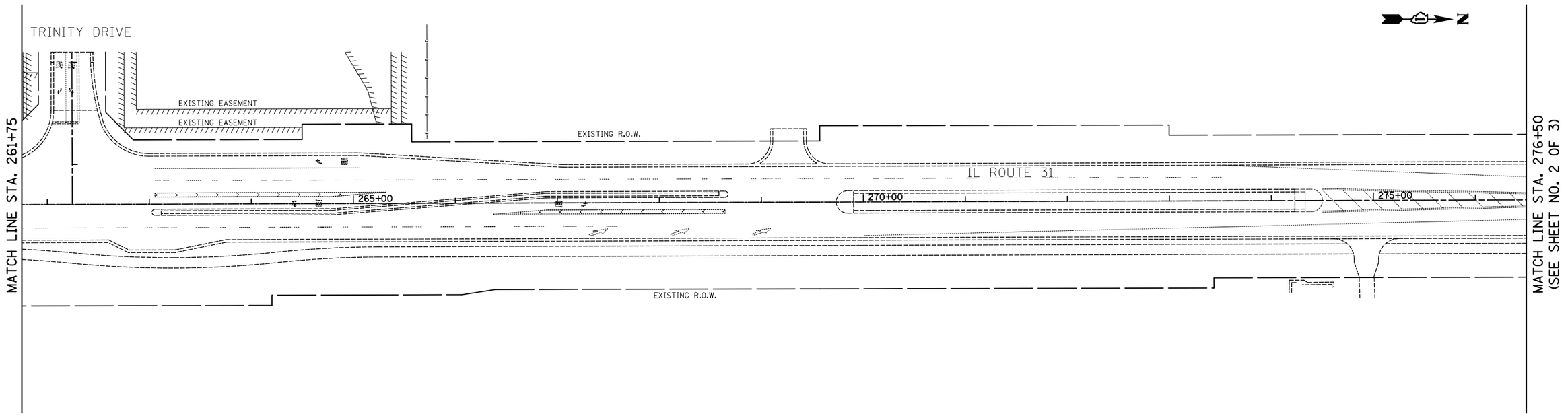


TEMPORARY INTERCONNECT NOTES

1. THE WIRELESS INTERCONNECT SHALL BE INSTALLED PRIOR TO THE BEGINNING OF M.O.T. STAGE 1A. THE EXISTING FIBER OPTIC INTERCONNECT SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE WIRELESS INTERCONNECT IS INSTALLED AND OPERATING TO THE SATISFACTION OF THE ENGINEER.

2. A RADIO REPEATER MY BE REQUIRED TO MAINTAIN THE WIRELESS INTERCONNECT BETWEEN VIRGINIA ROAD AND JAMES A. RAKOW ROAD/CENTRAL PARK DRIVE, OR AS DIRECTED BY THE ENGINEER. IF A REPEATER IS REQUIRED, IT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY WIRELESS INTERCONNECT, COMPLETE".

3. FOR INTERCONNECT QUANTITIES AND REMOVAL QUANTITIES, REFER TO THE SCHEDULE OF QUANTITIES LOCATED ON THE INTERCONNECT SCHEMATIC SHEET.



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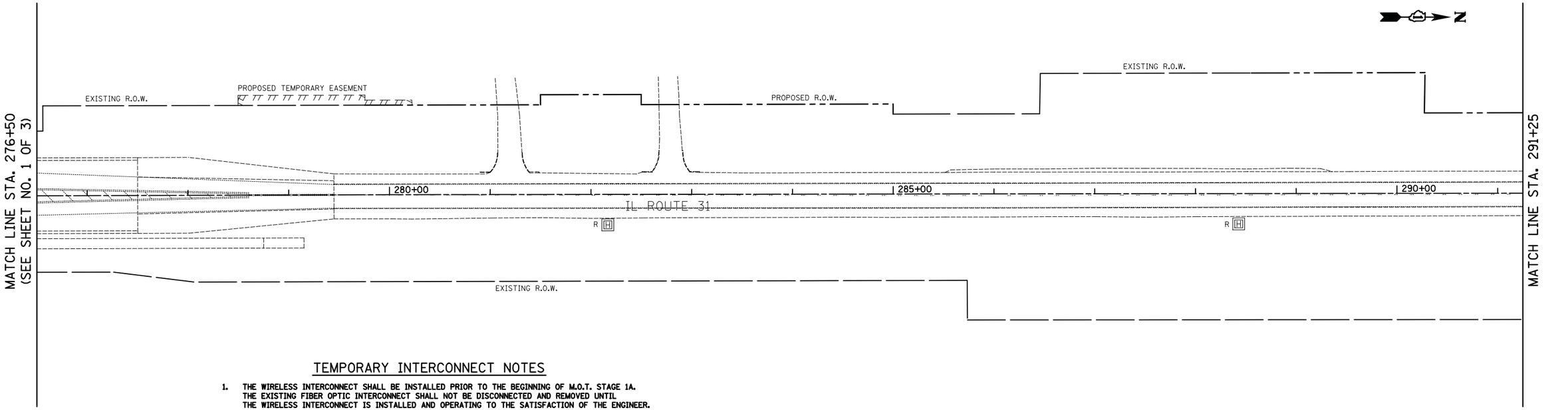
Default	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 31
VIRGINIA ROAD TO RAKOW ROAD

SCALE: 1" = 50' | SHEET 1 OF 3 SHEETS | STA. 247+00 | TO STA. 276+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	86
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

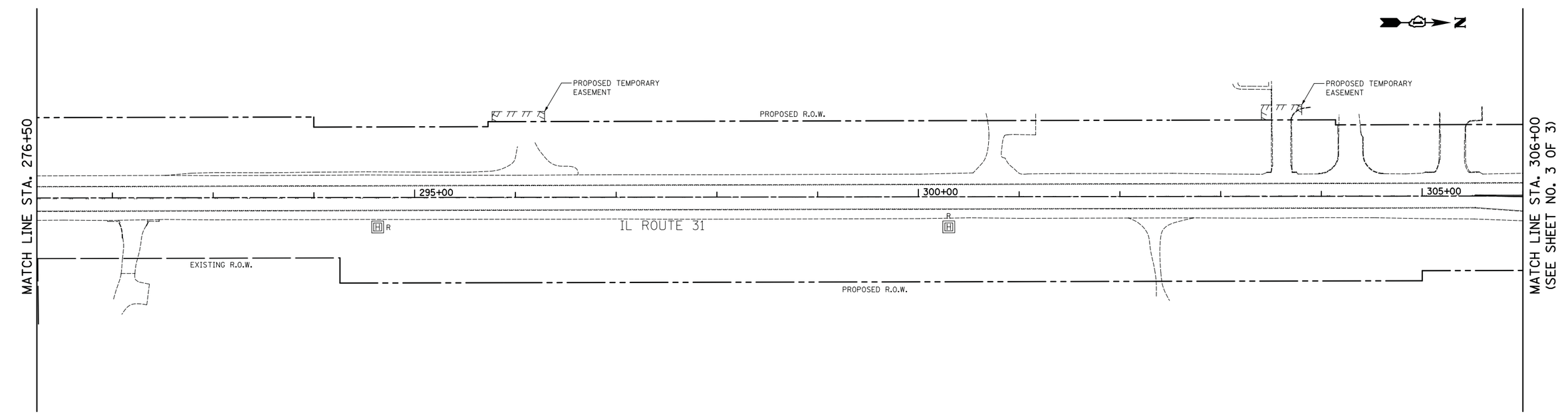


TEMPORARY INTERCONNECT NOTES

1. THE WIRELESS INTERCONNECT SHALL BE INSTALLED PRIOR TO THE BEGINNING OF M.O.T. STAGE 1A. THE EXISTING FIBER OPTIC INTERCONNECT SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE WIRELESS INTERCONNECT IS INSTALLED AND OPERATING TO THE SATISFACTION OF THE ENGINEER.

2. A RADIO REPEATER MY BE REQUIRED TO MAINTAIN THE WIRELESS INTERCONNECT BETWEEN VIRGINIA ROAD AND JAMES A. RAKOW ROAD/CENTRAL PARK DRIVE, OR AS DIRECTED BY THE ENGINEER. IF A REPEATER IS REQUIRED, IT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY WIRELESS INTERCONNECT, COMPLETE".

3. FOR INTERCONNECT QUANTITIES AND REMOVAL QUANTITIES, REFER TO THE SCHEDULE OF QUANTITIES LOCATED ON THE INTERCONNECT SCHEMATIC SHEET.



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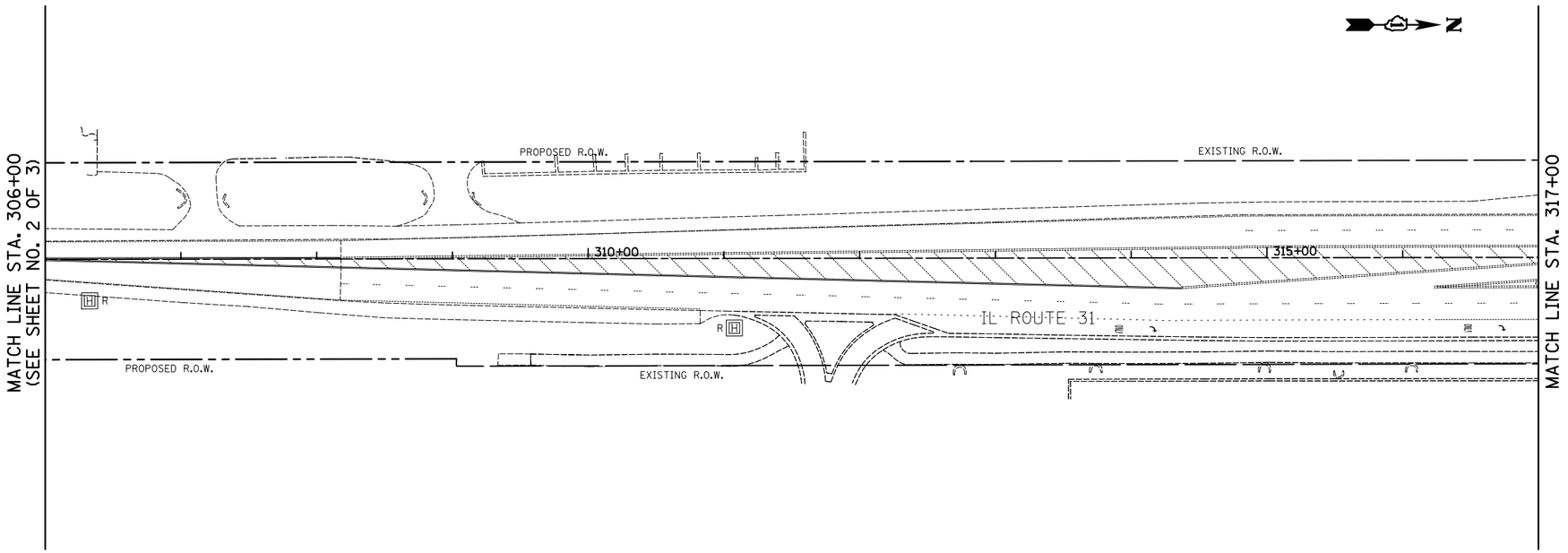
Default	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

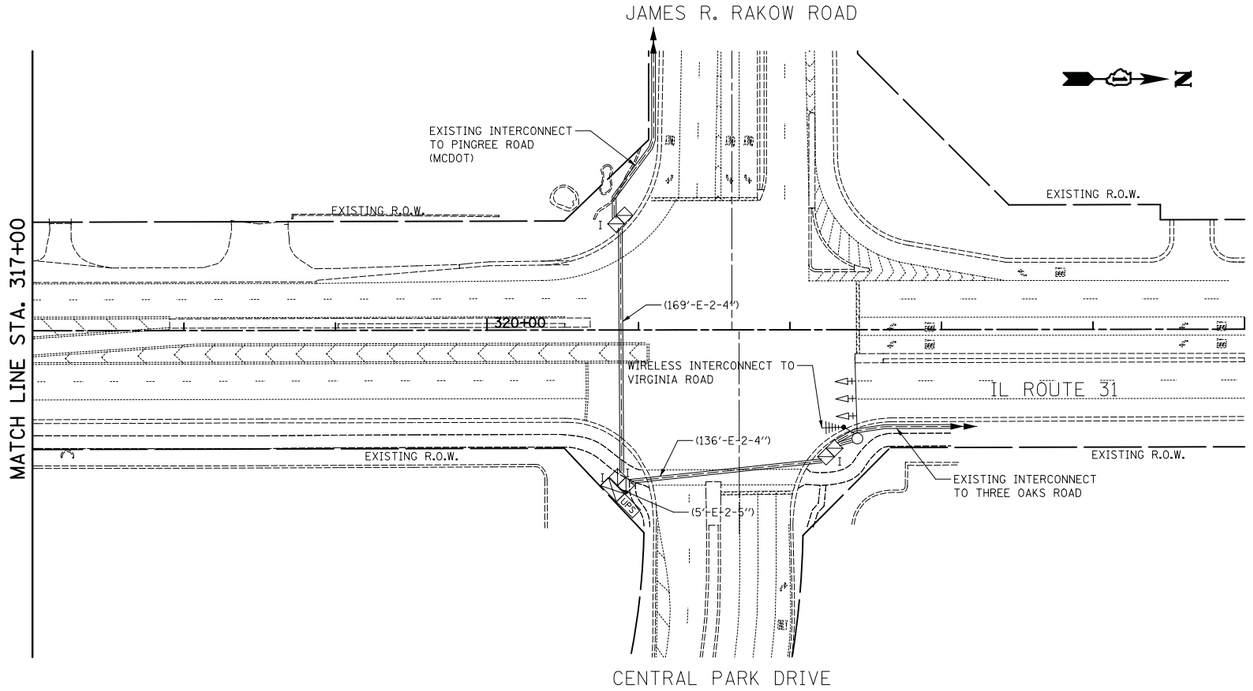
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 31
VIRGINIA ROAD TO RAKOW ROAD

SCALE: 1" = 50' | SHEET 2 OF 3 SHEETS | STA. 276+50 | TO STA. 317+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	87
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





TEMPORARY INTERCONNECT NOTES

1. THE WIRELESS INTERCONNECT SHALL BE INSTALLED PRIOR TO THE BEGINNING OF M.O.T. STAGE 1A. THE EXISTING FIBER OPTIC INTERCONNECT SHALL NOT BE DISCONNECTED AND REMOVED UNTIL THE WIRELESS INTERCONNECT IS INSTALLED AND OPERATING TO THE SATISFACTION OF THE ENGINEER.

2. A RADIO REPEATER MY BE REQUIRED TO MAINTAIN THE WIRELESS INTERCONNECT BETWEEN VIRGINIA ROAD AND JAMES A. RAKOW ROAD/CENTRAL PARK DRIVE, OR AS DIRECTED BY THE ENGINEER. IF A REPEATER IS REQUIRED, IT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY WIRELESS INTERCONNECT, COMPLETE".

3. FOR INTERCONNECT QUANTITIES AND REMOVAL QUANTITIES, REFER TO THE SCHEDULE OF QUANTITIES LOCATED ON THE INTERCONNECT SCHEMATIC SHEET.

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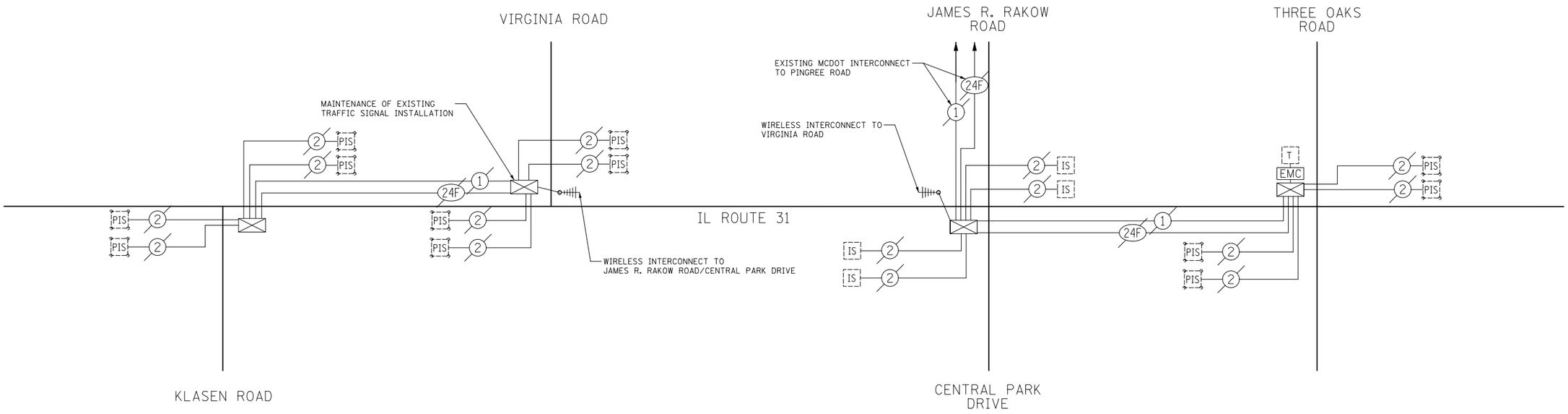
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 31
VIRGINIA ROAD TO RAKOW ROAD

SCALE: 1" = 50' | SHEET 3 OF 3 SHEETS | STA. 317+00 | TO STA. 325+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	88
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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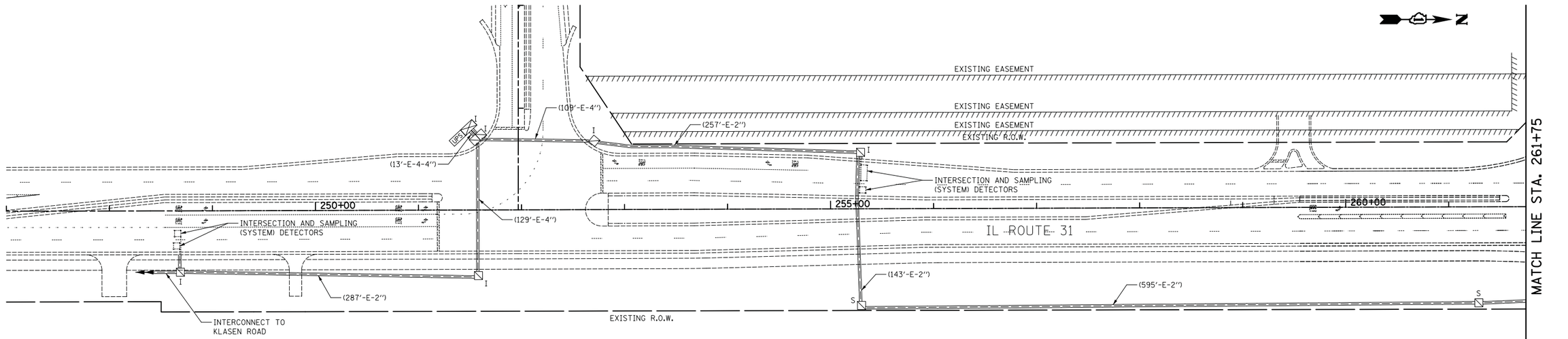
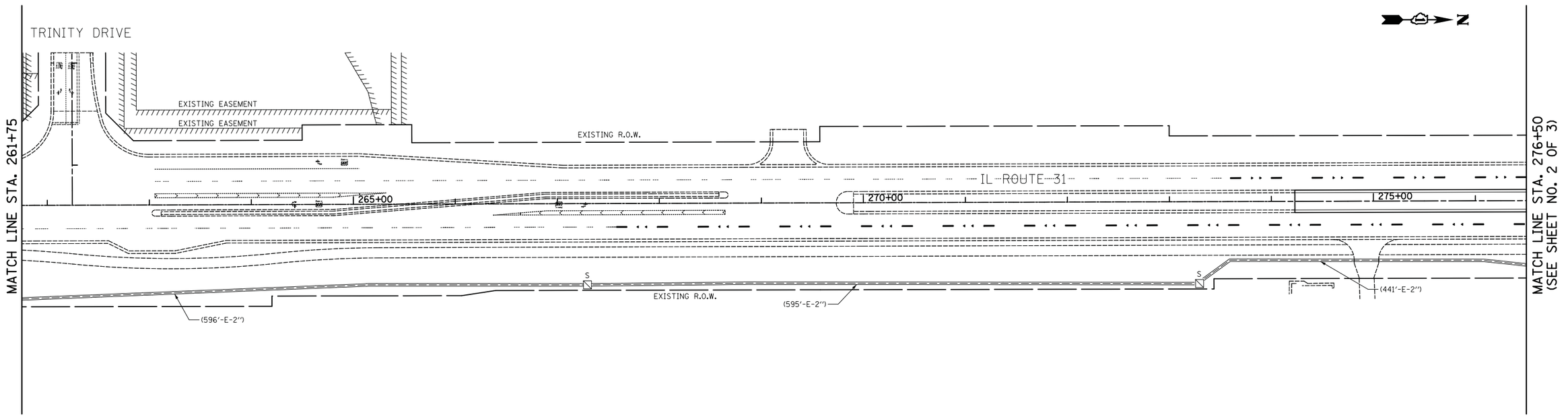
		DRAWN - MFB	REVISED -		
Default	PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -		SCALE: NO SCALE | SHEET 1 OF 1 SHEETS | STA. TO STA.
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	89
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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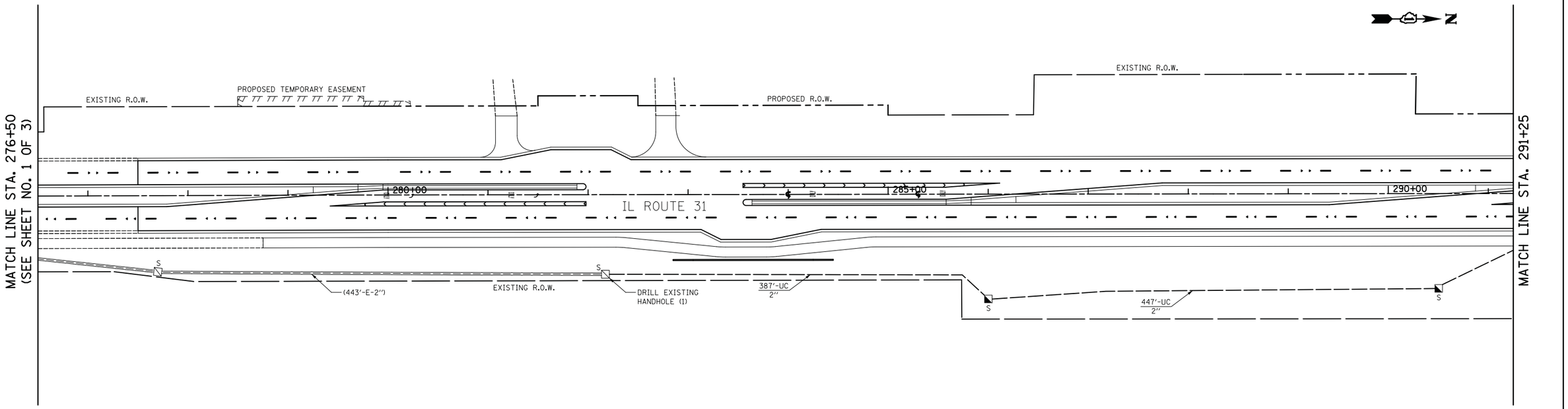
	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

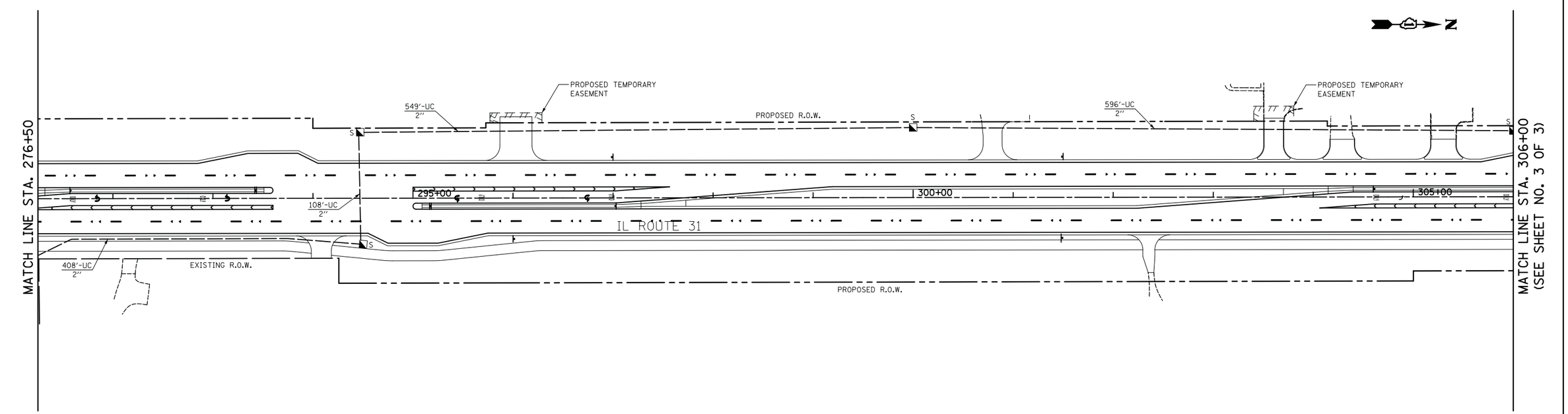
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 31
VIRGINIA ROAD TO RAKOW ROAD

SCALE: 1" = 50' | SHEET 1 OF 3 SHEETS | STA. 247+00 | TO STA. 276+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	90
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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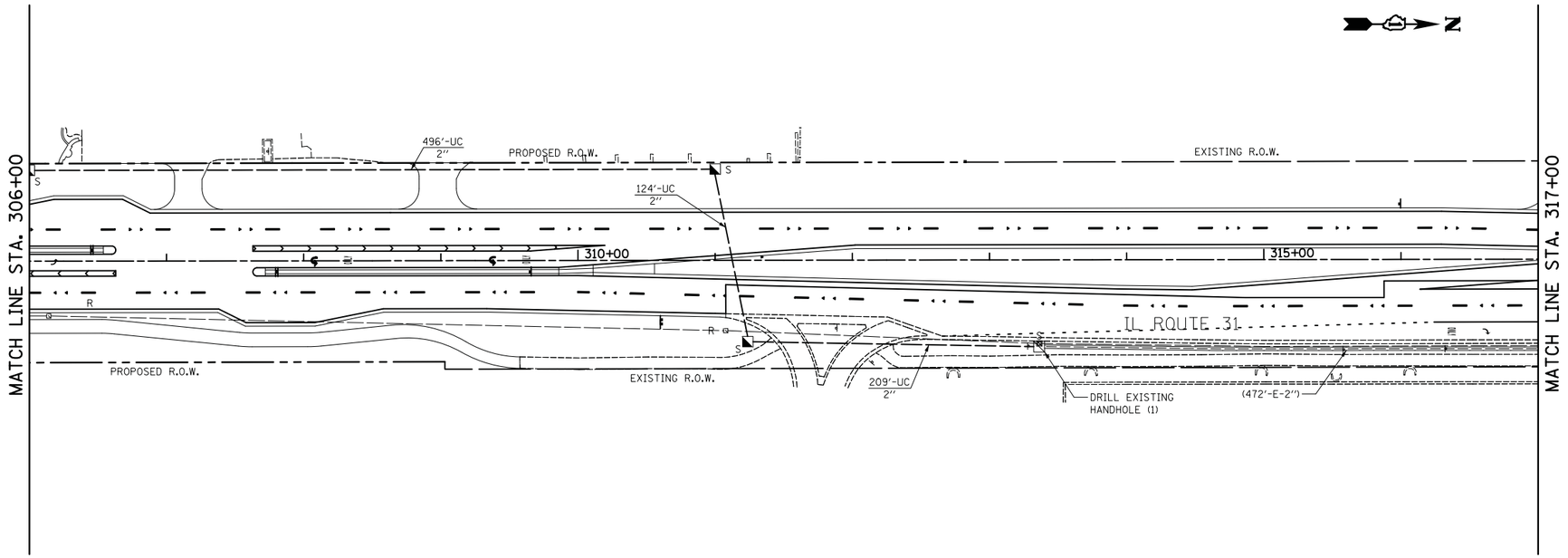
	PLOT DATE = 12/17/2013	DATE - 12/17/2013	REVISED -

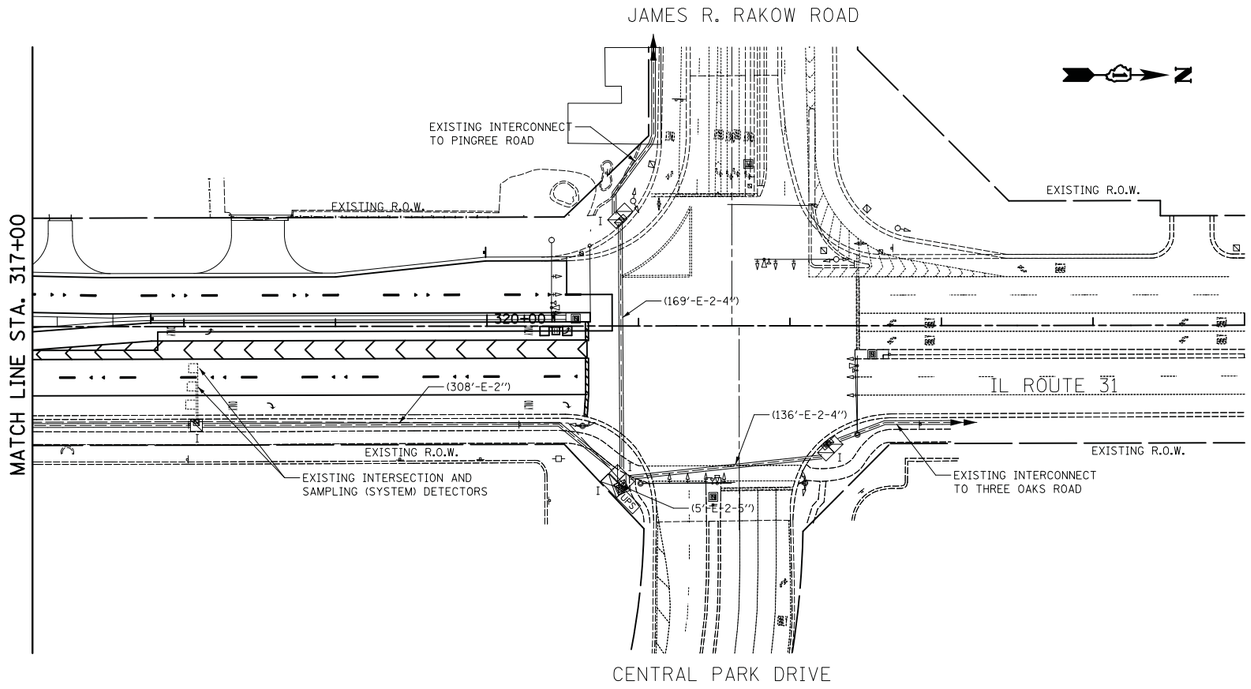
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 31
VIRGINIA ROAD TO RAKOW ROAD

SCALE: 1" = 50' | SHEET 2 OF 3 SHEETS | STA. 276+50 | TO STA. 317+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	91
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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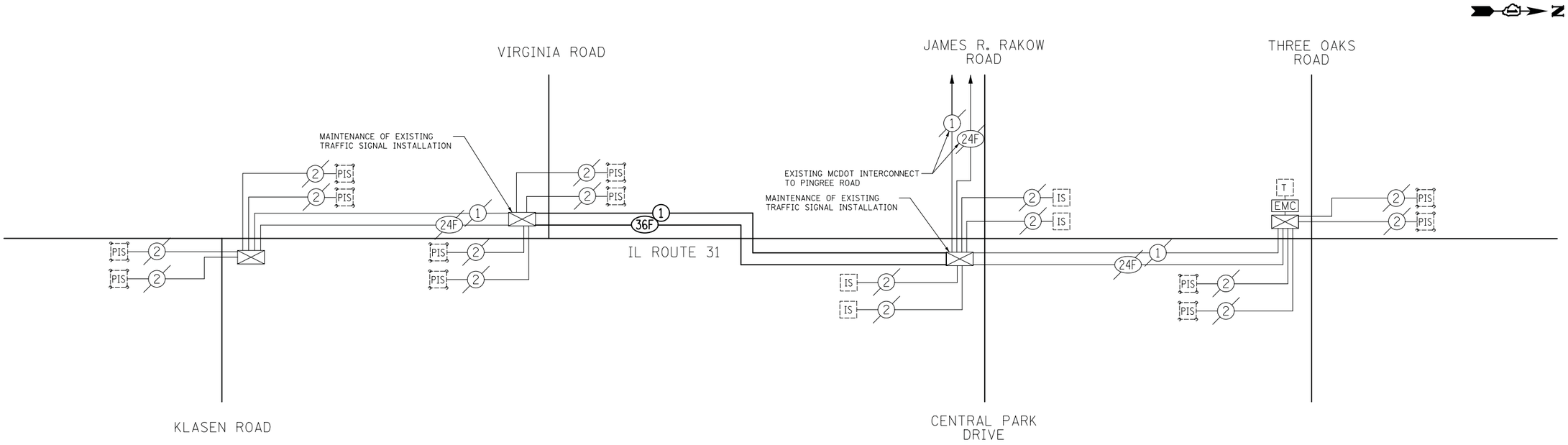
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 31
VIRGINIA ROAD TO RAKOW ROAD

SCALE: 1" = 50' | SHEET 3 OF 3 SHEETS | STA. 317+00 | TO STA. 325+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	92
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3324
HANDHOLE	EACH	8
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	7453
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4077
REMOVE EXISTING HANDHOLE	EACH	6
TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	7476
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	4100

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Default	PLOT DATE = 8/5/2013	DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
IL ROUTE 31
KLASEN ROAD TO THREE OAKS ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	93
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	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.

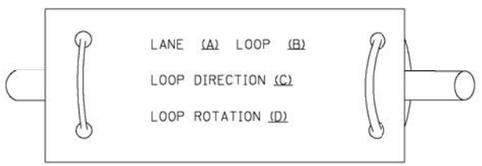
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

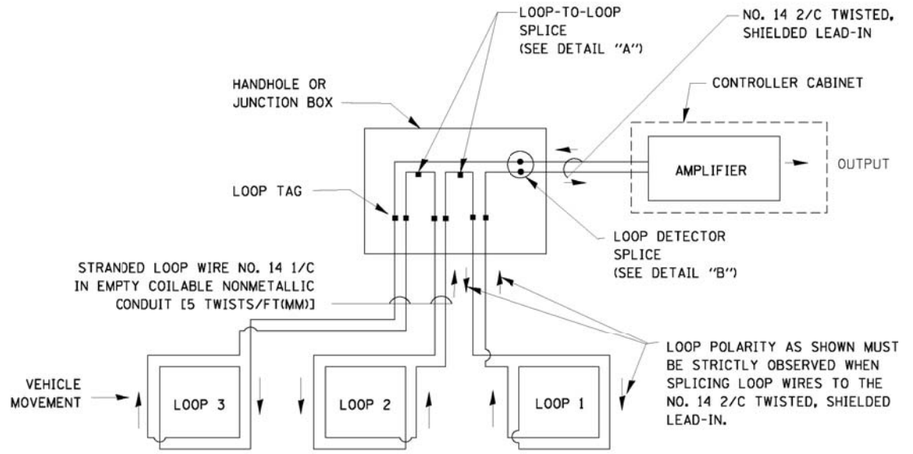


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

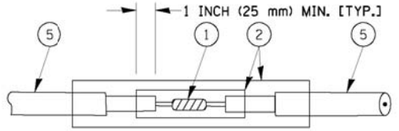
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

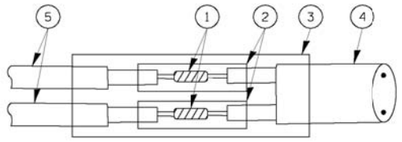


DETECTOR LOOP WIRING SCHEMATIC

- 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.

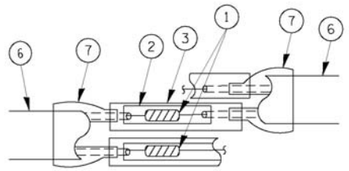


DETAIL "A"
LOOP-TO-LOOP SPLICE



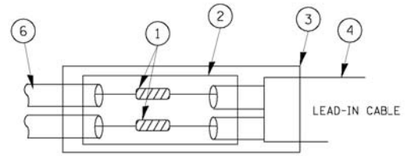
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



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 LENGHT 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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

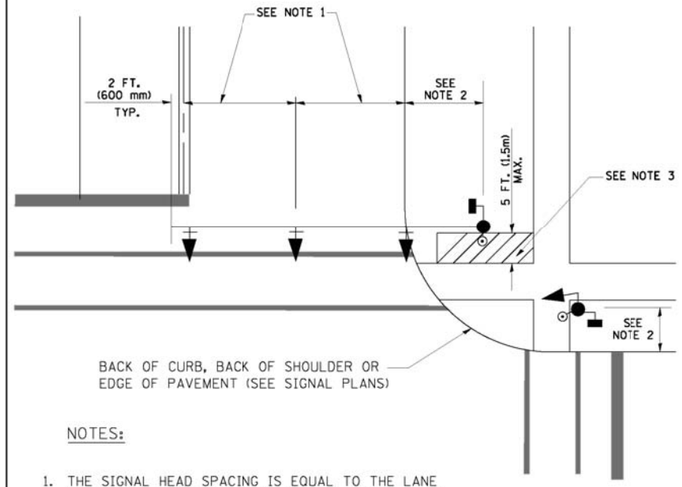
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	96-00209-01-PV	MCHENRY	151	94
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

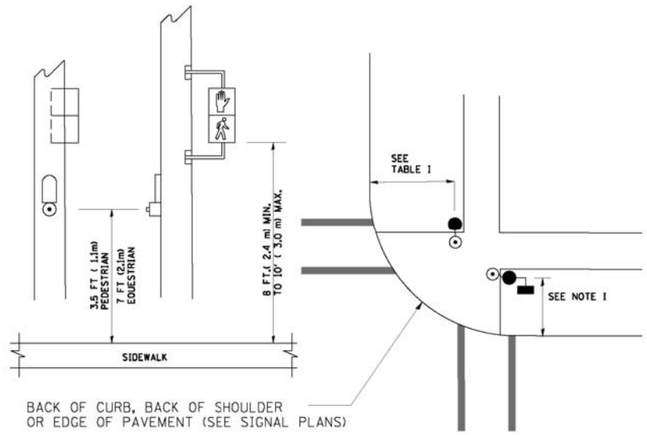
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

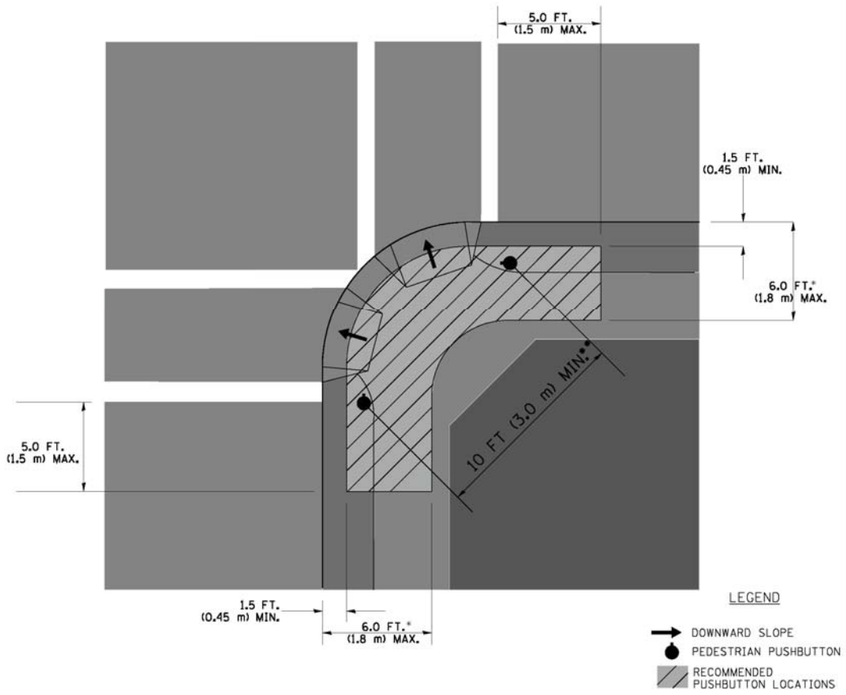
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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."

RECOMMENDED PUSHBUTTON LOCATIONS



- 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.

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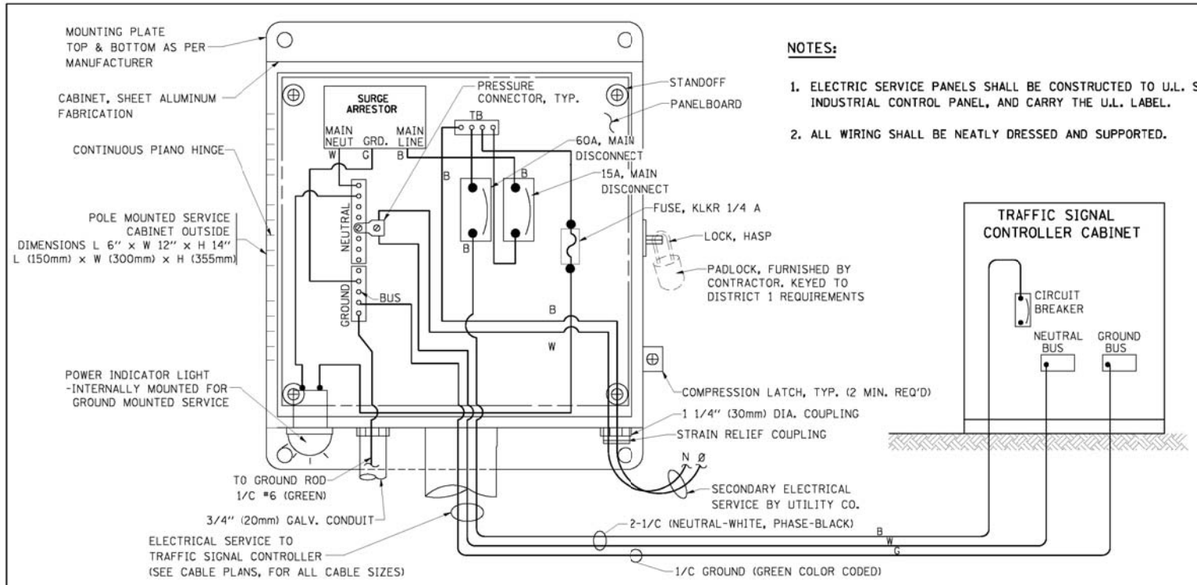
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	95
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



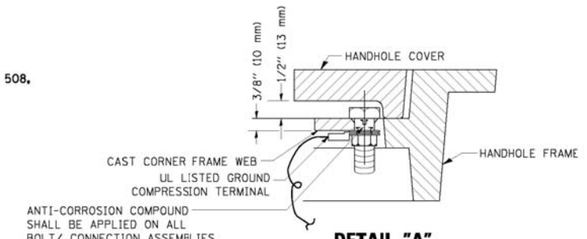
NOTES:

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.

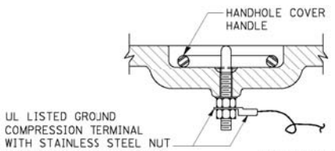
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

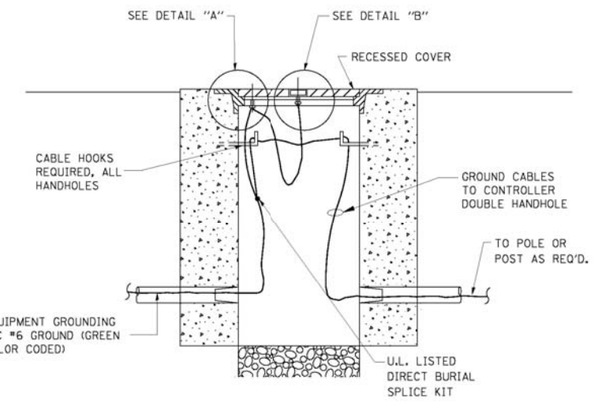


DETAIL "B"

NOTES:

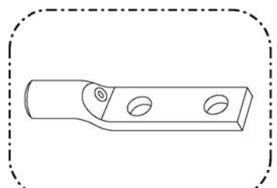
GROUNDING SYSTEM

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.



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

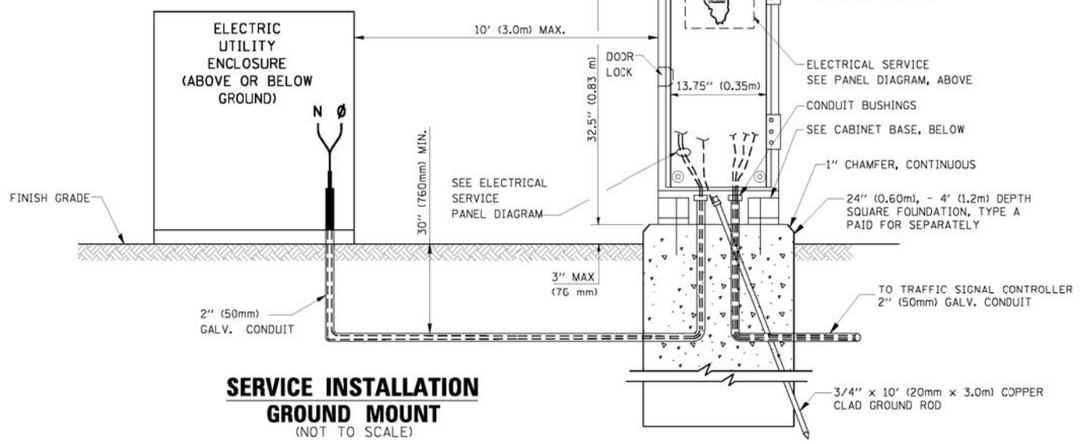


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

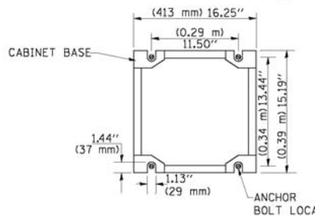
NOTES:

- 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.



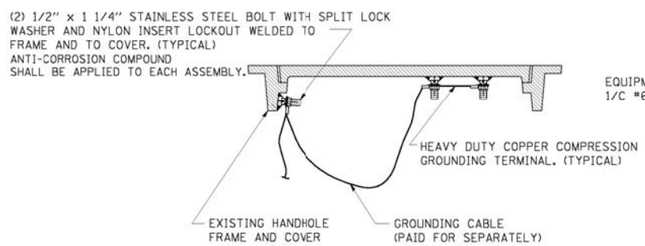
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



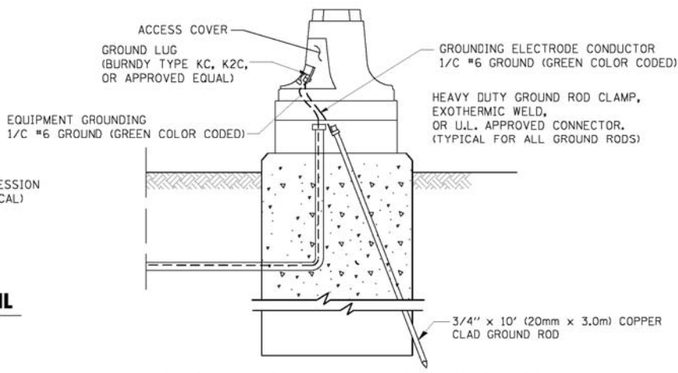
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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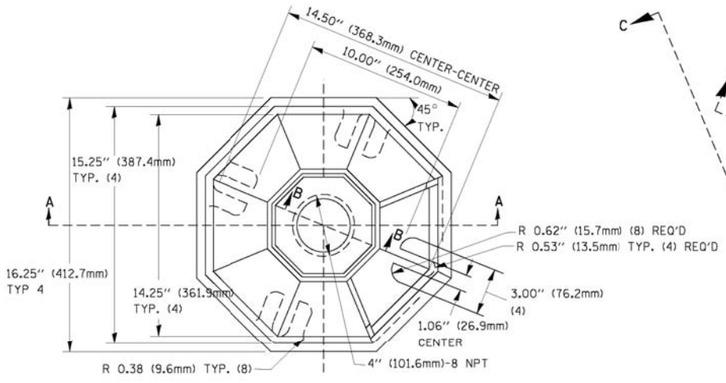
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

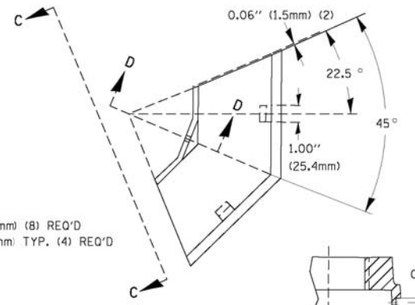
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

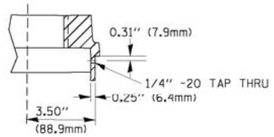
SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	96
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

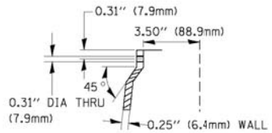


TOP VIEW





SECTION B-B



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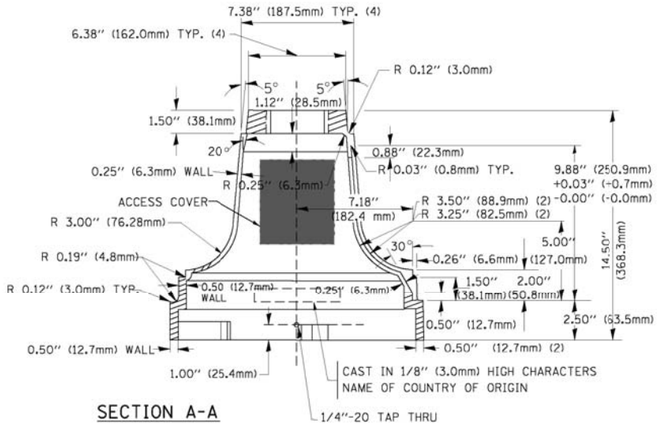
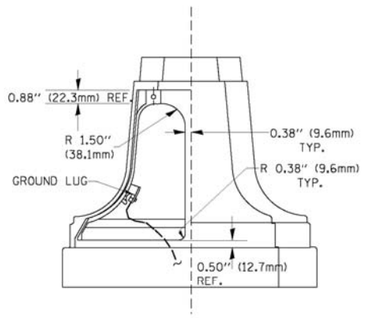
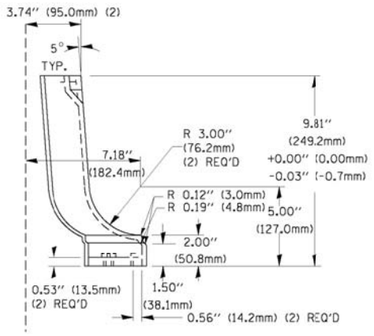


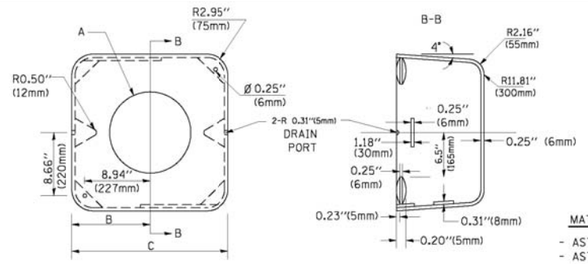
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

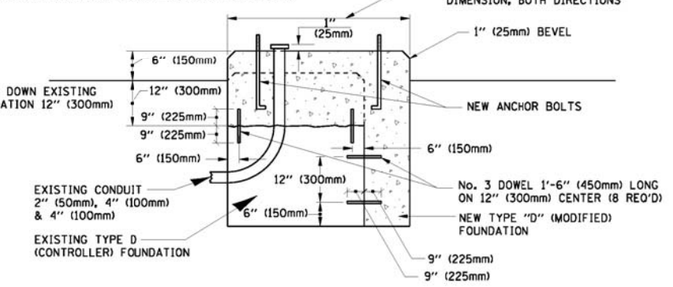
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

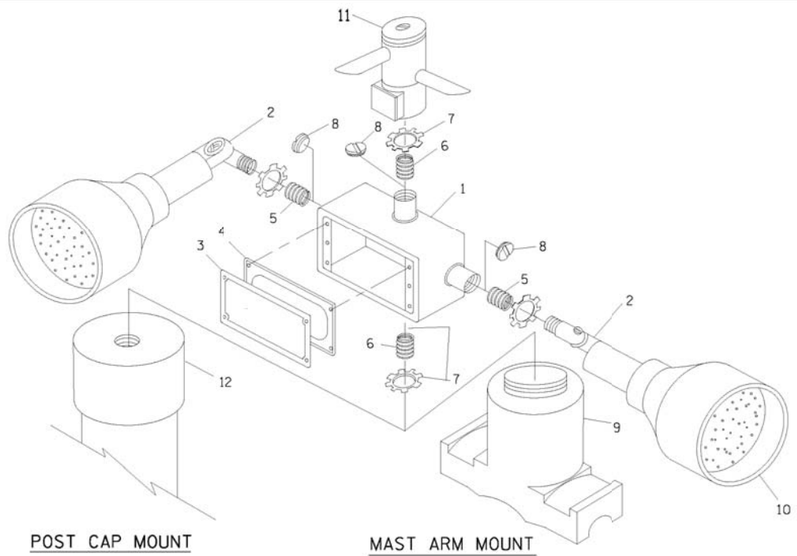
NOTES:

1. 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.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

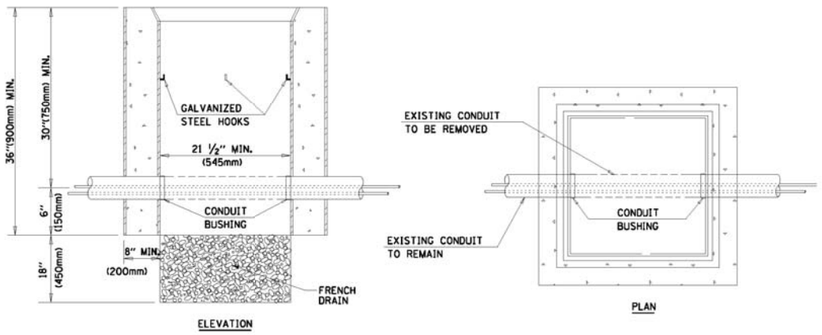
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(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:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. 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
3. 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 ¾"(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:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. 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

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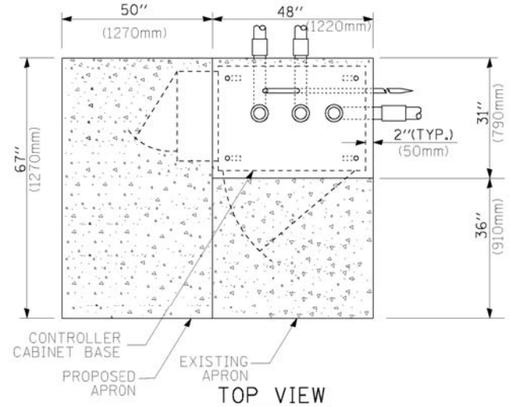
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

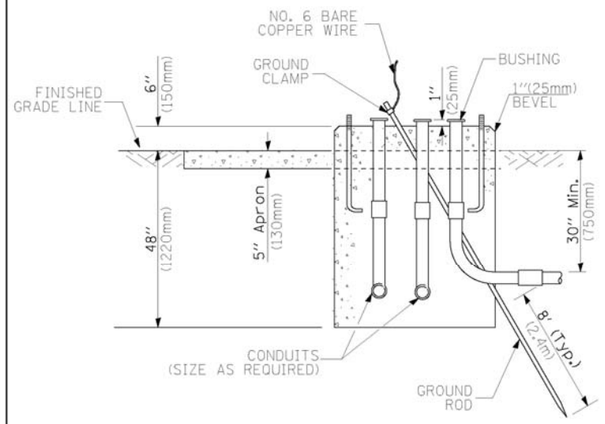
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

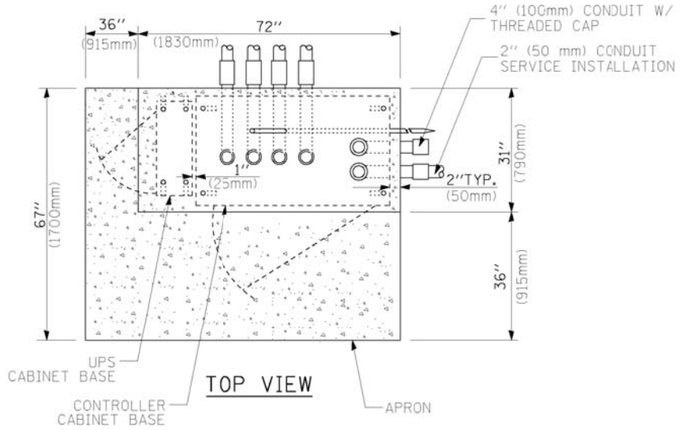
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	97
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



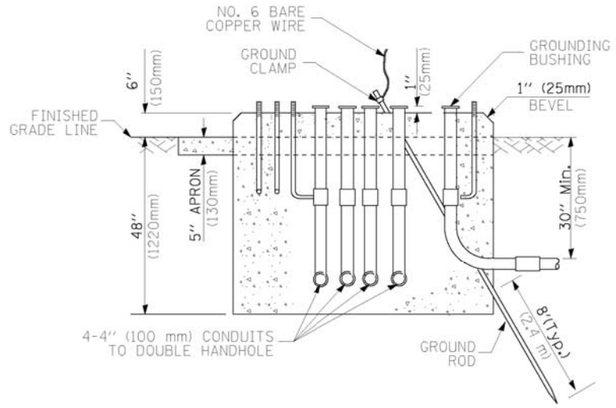
TOP VIEW



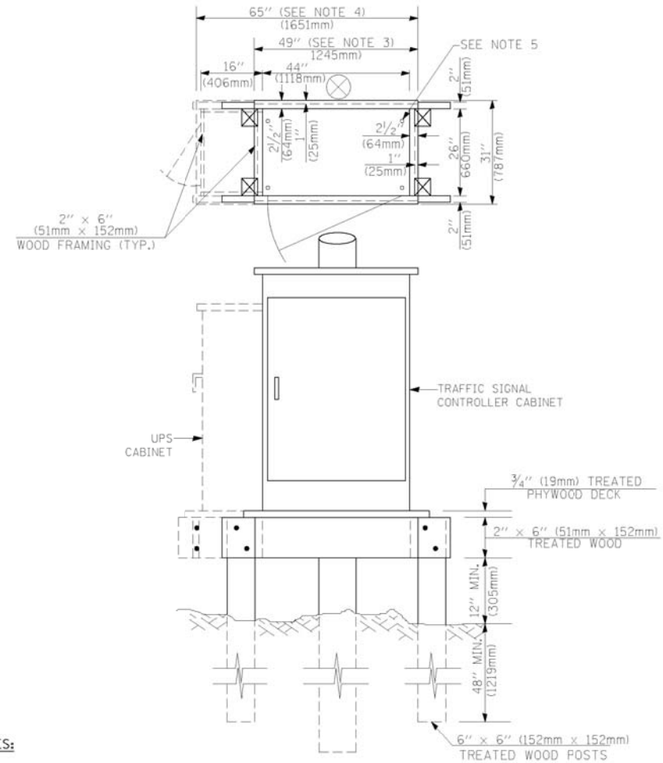
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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

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 equa 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)	30" (750mm)	12	7(22)
Greater than or equa to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equa to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equa to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equa to 65' (19.8 m) and up to 75' (22.9 m)	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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	98
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET			
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

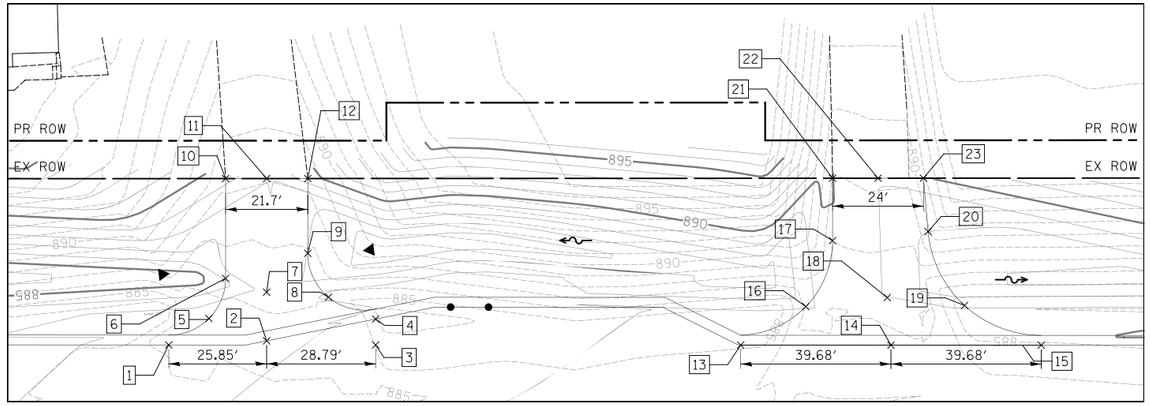
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	99
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

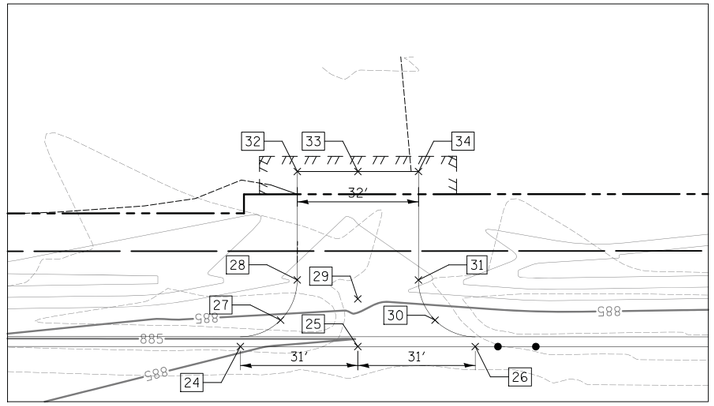
PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
NOTE BOOK
NO.
BY
DATE



DETAIL "A"

COMMERCIAL ENTRANCE
STA. 281+19.44, LT
STA. 282+77.89, LT



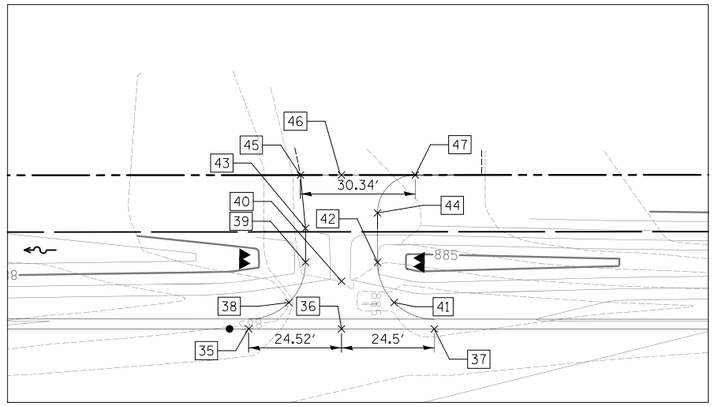
DETAIL "B"

COMMERCIAL ENTRANCE
STA. 296+03.01, LT

LEGEND

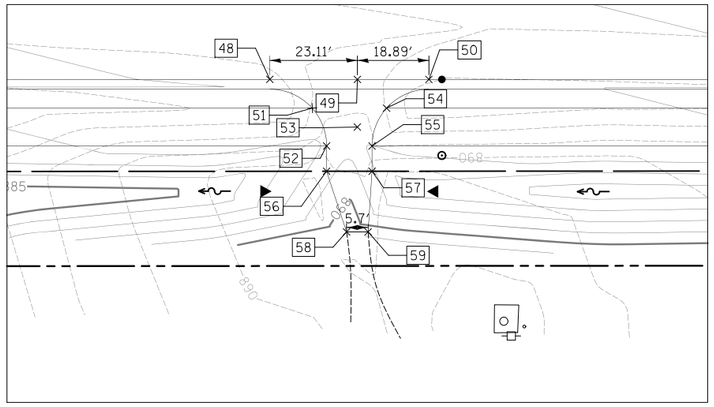
(XXX.XX) EXISTING PAVEMENT ELEVATION

XXX.XX PROPOSED PAVEMENT ELEVATION



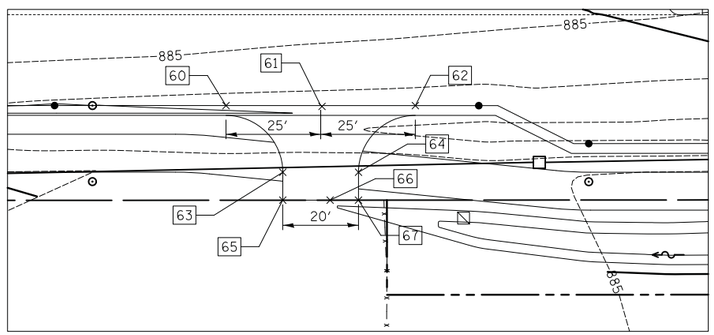
DETAIL "C"

COMMERCIAL ENTRANCE
STA. 300+79.56, LT



DETAIL "D"

COMMERCIAL ENTRANCE
STA. 302+35.58, LT



DETAIL "E"

PARK LAND ENTRANCE
STA. 294+08.25, RT

POINT	STATION	OFFSET	ELEVATION
1	280+92.55	35.00′ LT	887.42
2	281+18.39	36.08′ LT	887.85
3	281+47.18	35.00′ LT	888.27
4	281+47.18	41.84′ LT	888.13
5	281+03.15	41.97′ LT	887.30
6	281+07.55	52.58′ LT	887.45
7	281+18.39	48.91′ LT	887.65
8	281+34.73	47.58′ LT	887.79
9	281+29.24	59.18′ LT	887.45
10	281+07.55	78.91′ LT	(888.29)
11	281+18.39	78.92′ LT	(888.06)
12	281+29.24	78.93′ LT	(888.23)
13	282+43.56	35.00′ LT	889.49
14	282+83.23	35.00′ LT	889.51
15	283+22.91	35.00′ LT	889.63
16	282+60.74	45.17′ LT	889.30
17	282+67.80	62.58′ LT	889.10
18	282+82.25	47.54′ LT	889.36
19	283+02.64	45.47′ LT	889.42
20	282+93.02	64.98′ LT	889.20
21	282+67.80	79.05′ LT	(888.91)
22	282+79.79	79.06′ LT	(889.20)
23	282+91.79	79.07′ LT	(889.13)
24	295+72.01	35.00′ LT	884.97
25	296+03.01	35.00′ LT	885.12
26	296+34.01	35.00′ LT	885.28
27	295+82.62	41.97′ LT	884.80
28	295+87.01	52.58′ LT	884.73
29	296+03.01	47.58′ LT	884.93
30	296+23.40	41.97′ LT	885.01
31	296+19.01	52.58′ LT	884.73
32	295+87.01	81.19′ LT	(883.32)
33	296+03.01	81.21′ LT	(883.35)
34	296+19.01	81.22′ LT	(883.13)
35	300+55.06	35.00′ LT	887.38

POINT	STATION	OFFSET	ELEVATION
36	300+79.56	35.00′ LT	887.50
37	301+04.06	35.00′ LT	887.63
38	300+65.67	41.97′ LT	887.29
39	300+70.06	52.58′ LT	887.20
40	300+79.56	47.58′ LT	887.31
41	300+93.45	41.97′ LT	887.42
42	300+89.06	52.58′ LT	887.20
43	300+70.06	61.55′ LT	887.32
44	300+89.06	65.63′ LT	887.69
45	300+68.71	75.61′ LT	(887.35)
46	300+79.56	75.62′ LT	(887.60)
47	300+99.05	75.64′ LT	(888.18)
48	302+14.58	35.00′ RT	888.18
49	302+37.69	35.00′ RT	888.29
50	302+56.58	35.00′ RT	888.39
51	302+25.76	42.58′ RT	888.24
52	302+29.58	52.58′ RT	888.29
53	302+37.69	47.58′ RT	888.49
54	302+45.40	42.58′ RT	888.34
55	302+41.58	52.58′ RT	888.29
56	302+29.58	59.25′ RT	889.13
57	302+41.58	59.24′ RT	889.14
58	302+34.84	75.25′ RT	(890.81)
59	302+40.54	75.24′ RT	(890.83)
60	293+83.25	35.00′ RT	884.08
61	294+08.25	35.00′ RT	884.17
62	294+33.25	35.00′ RT	884.28
63	293+98.25	52.58′ RT	884.55
64	294+18.25	52.58′ RT	884.55
65	293+98.25	59.95′ RT	(884.39)
66	294+10.75	59.95′ RT	(884.43)
67	294+18.25	59.95′ RT	(884.40)

20 0 20
SCALE IN FEET

FILE NAME = ...\2278NG-sht-details_01.dgn	USER NAME = kwh	DESIGNED - KWH	REVISED -
		DRAWN - KWH	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 12/19/2013	DATE - 12/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING DETAILS

SCALE: 1" = 20′ | SHEET NO. 1 OF 2 SHEETS | STA. -- | TO STA. --

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	18W&RS-5 (12)	MCHENRY	151	100
		CONTRACT NO. 60V72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		