F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63743		

04-26-13 LETTING ITEM 127

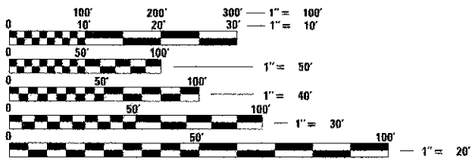
INDEX OF SHEETS

TRAFFIC DATA

	ADT (2030)	DESIGN SPEED	POSTED SPEED
KREUTZER ROAD (MAIN STREET TO ILLINOIS RTE 47)	11,000	40 MPH	35 MPH
KREUTZER ROAD (ILLINOIS RTE 47 TO SMITH DRIVE)	28,000	40 MPH	35 MPH
ILLINOIS RTE 47 (REGENCY PARKWAY TO KREUTZER ROAD)	46,000	50 MPH	40 MPH
ILLINOIS RTE 47 (KREUTZER ROAD TO MAIN STREET)	40,000	50 MPH	40 MPH

DESIGN DESIGNATION

KREUTZER ROAD – 1600(30) COLLECTOR 1.53 (FD-20)



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

CONTRACT NO. 63743

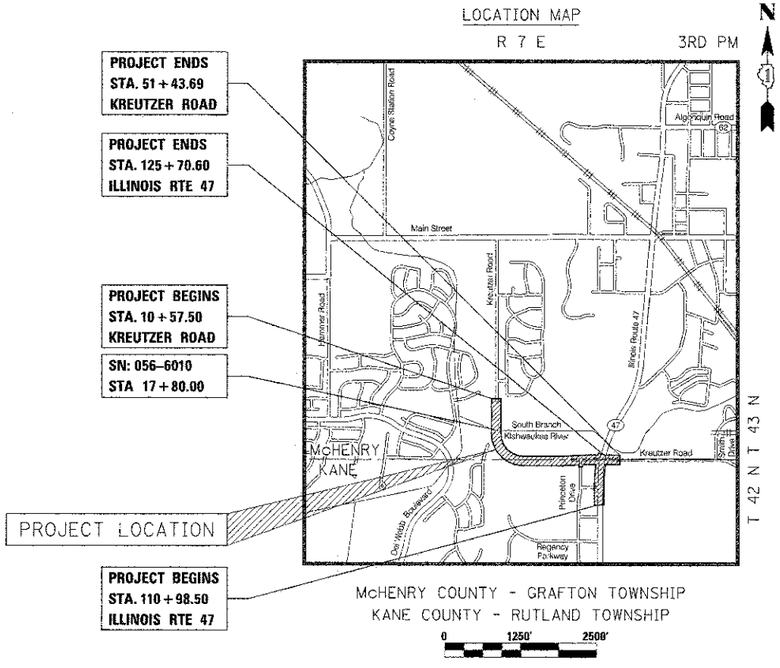
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 4068 (KREUTZER ROAD)
ILLINOIS ROUTE 47 TO MAIN STREET
NEW ROADWAY CONSTRUCTION
AND INTERSECTION IMPROVEMENT
SECTION 07-00031-00-PV
PROJECT NO. M-8003(940)
VILLAGE OF HUNTLEY
KANE AND McHENRY COUNTIES

C-91-189-08

LOCATION MAP



PROJECT LENGTH:
KREUTZER ROAD – 4,134.42 FT. = 0.783 MILE
ILLINOIS RTE 47 – 1,472.10 FT. = 0.279 MILE

PLANS PREPARED BY:

CIVILTECH
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
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GARY A. BLAZEK
062-046590
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Gary A. Blazek 11/30/2013
REGISTERED P.E., STATE OF ILLINOIS EXPIRES
SHEET NOS: 1-51, 62-68, 112-167

JOSEPH J. ENRY
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REGISTERED P.E., STATE OF ILLINOIS EXPIRES
SHEET NOS: 69-84

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Derek N. Mall 8/28/12 11/30/13
REGISTERED P.E., STATE OF ILLINOIS EXPIRES
SHEET NOS: 85-88

STATE OF ILLINOIS
GREGORY J. HATLESTAD
081-005581
DIRECTOR OF STRUCTURAL ENGINEER

8/29/12 11/30/12
REGISTERED S.E., STATE OF ILLINOIS EXPIRES
SHEET NOS: 89-111

LOCATION OF SECTION INDICATED THUS: –■–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED October 23 20 12
VILLAGE MANAGER, VILLAGE OF HUNTLEY

PASSED November 8 20 12
C. HOLT
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW November 8 20 12
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

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
420401-09	BRIDGE APPROACH PAVEMENT CONNECTOR
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
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
602301-03	INLET - TYPE A
602401-03	MANHOLE TYPE A
602406-05	MANHOLE TYPE A 6' (1.8 m) DIAMETER
602411-03	MANHOLE TYPE A 7' (2.1 m) DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
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
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-11	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-03	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701422-05	LANE CLOSURE, MULTILANE, FOR SPEEDS 45 MPH TO 55 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-08	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL MAST ARM ASSEMBLY & POLE 16' THROUGH 55'
877002-02	STEEL MAST ARM ASSEMBLY & POLE 56' THROUGH 75'
878001-09	CONCRETE FOUNDATION DETAILS
886001-01	SPAN WIRE MOUNTED SIGNALS & FLASH BEACON INSTALL
886006-01	TRAFFIC SIGNAL MOUNTING DETAILS WITH POST & BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS

LIST OF ILLINOIS DOT HIGHWAY DISTRICT ONE STANDARD DETAILS

BD-01	DRIVEWAY DETAILS
BD-02	DRIVEWAY DETAILS
BD-05	CONCRETE MEDIAN
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.
BD-36	FIRE HYDRANT TO BE MOVED
BD-51	BENCHING DETAIL
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

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, 2013 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISION", ADOPTED JANUARY 1, 2013.

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ("STANDARD SPECIFICATIONS"), ADOPTED JANUARY 1, 2013; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2013; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 EDITION, CHAPTER 155 OF THE VILLAGE OF HUNTLEY MUNICIPAL CODE, THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS.

3. 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)."

4. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED AS THE RESIDENT ENGINEER.

5. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET AND APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM THE VILLAGE OF HUNTLEY.

6. ALL UTILITY COMPANIES, SCHOOL DISTRICTS, AND LOCAL POLICE AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

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

STAKING

1. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE VILLAGE, ITS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

2. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

3. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR EACH STRUCTURE TO SET THE FRAME AND GRATE IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE.

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

5. ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON U.S.G.S. DATUM.

6. THE CONSTRUCTION BASELINE HAS BEEN ESTABLISHED FOR STAKING PURPOSES ONLY AND IS NOT INTENDED TO BE A CENTERLINE OF RIGHT-OF-WAY.

TREE REMOVAL, CLEARING, AND HEDGE REMOVAL

1. ALL CLEARING AND REMOVAL OF TREES UNDER 6" IN DIAMETER SHALL BE INCIDENTAL TO THE COST OF "EARTH EXCAVATION".

2. ALL CLEARING AND THE REMOVAL AND/OR RELOCATION OF BUSHES, AS DIRECTED BY THE ENGINEER, SHALL BE INCIDENTAL TO THE COST OF "EARTH EXCAVATION".

3. ALL LIMBS, BRANCHES AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.

SPECIAL WASTE

1. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

PAVING, SHOULDERS, AND CURB & GUTTER

1. THE CONTRACTOR SHALL SAW CUT PAVEMENT, CURB & GUTTER, SHOULDER, AND SIDEWALK 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 INCIDENTAL TO 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 ADDITIONAL 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 OR CONCRETE SHOULDER UNTIL THE CURB AND GUTTER OR CONCRETE SHOULDER HAS BEEN PROPERLY CURED AND BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

3. 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.

4. THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACE, BINDER, OR BASE UPON WHICH THE HOT-MIX ASPHALT MATERIALS ARE PLACED.

5. 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, AND PCC SIDEWALK. ANY PART OF THIS ITEM CAN BE DELETED OR ANOTHER ADDED AT THE DISCRETION OF THE ENGINEER.

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

7. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.

MISCELLANEOUS

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

2. SITE OBJECTS: REMOVAL OF MISCELLANEOUS PARKWAY IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BLOCK RETAINING WALLS, CONCRETE RETAINING WALLS, LANDSCAPE TIMBERS, LANDSCAPE ROCKS, FENCES, FENCE POSTS, PLANTERS, VEGETATION, BRICK OR BRICK PAVER WALKWAYS WITHIN R.O.W. LIMITS SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION."

3. THE CONTRACTOR SHALL ADHERE TO IDOT STANDARD DRAWING NO. 701801-05 WHEN CLOSING ANY SIDEWALK TO PERMIT CONSTRUCTION OF THE IMPROVEMENTS.

4. UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

5. THE CONTRACTOR SHALL NOT CROSS COMPLETED BINDER COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT.

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

7. WETLANDS: THE CONTRACTOR MUST BE IN COMPLIANCE WITH THE 404 PERMIT AT ALL TIMES. ACTIVITY IN DESIGNATED WETLAND AREAS IS RESTRICTED TO THOSE AREAS SPECIFICALLY IDENTIFIED AS "IMPACTED" ON THE PLAN SHEETS AND IN THE 404 PERMIT DOCUMENT. SIGNS SHALL BE POSTED AT EACH WETLAND SITE ALONG THE R.O.W. OR LIMIT OF ALLOWABLE IMPACT AS SHOWN ON THE EROSION CONTROL PLANS.

8. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

FILE NAME = ...\2473_GENNOTE_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 2/22/2013	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	2
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT XXX------		

ROADWAY EXCAVATION

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

2. 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."

3. 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 PGE 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 PGES. THE REMOVAL AND REPLACEMENT AREA SHALL EXTEND TO 12 INCHES BEYOND THE CURB AND GUTTER AND CONCRETE SHOULDER COME UP AT A 1:1 SLOPE TO EXISTING GROUND SURFACE. 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."

STORM & SANITARY SEWER

1. THE COST OF MAKING SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCIDENTAL TO THE COST OF THE SEWER OR STRUCTURE BEING CONSTRUCTED.

2. 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.

   DURING CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS, 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.

3. 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 PLANT, 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.

4. ALL ABANDONED PIPE AND STRUCTURE INVERTS SHALL BE PLUGGED WITH BRICK AND MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE STORM OR SANITARY SEWER ITEMS BEING REMOVED.

5. THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON MANHOLES. 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 PART OF THE STRUCTURE COST.

7. 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.

8. 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.

9. ANY TEMPORARY DAMMING OR PUMPING REQUIRED FOR THE EXCAVATIONS FOR THE STORM SEWER CONNECTIONS TO THE ON-SITE PONDS SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING CONSTRUCTED.

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. ALL EXISTING TRAFFIC SIGNS WHICH INTERFERE WITH THE CONTRACTOR'S WORK SHALL BE REMOVED, A RECORD MADE OF THEIR CONDITION, AND SAFELY STORED AND SAFEGUARDED BY THE CONTRACTOR UNTIL THE ENGINEER DETERMINES THAT THEY BE REINSTALLED IN THE PERMANENT LOCATIONS.

4. IMMEDIATELY AFTER EACH SIGN IS REMOVED, A TEMPORARY SIGN OF THE SAME TYPE SHALL BE INSTALLED ON A SIGN SUPPORT APPROVED BY, AND AT A LOCATION DETERMINED BY, THE ENGINEER. THESE SIGNS SHALL BE MAINTAINED STRAIGHT AND CLEAN UNTIL THE PERMANENT SIGNS ARE REINSTALLED.

5. 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.

6. ALL UNUSED SIGNS AND POSTS SHALL BE RETURNED TO THE JURISIDICTION FROM WHICH IT WAS REMOVED: VILLAGE OF HUNTLEY OR ILLINOIS DEPARTMENT OF TRANSPORTATION.

7. 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."

8. ALL PROPOSED SIGNS SHALL HAVE TYPE AA REFLECTIVE SHEETING, UNLESS OTHERWISE NOTED ON PLANS. THIS SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIGN.

9. ALL PERMANENT SIGNS THAT WILL BE INSTALLED ON VILLAGE RIGHT-OF-WAY SHALL CONFORM TO THE VILLAGE OF HUNTLEY STANDARDS.

UTILITIES

1. THE CONTRACTOR SHALL COOPERATE WITH THE VILLAGE IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE VILLAGE MAY WANT TO PLACE DURING THE CONTRACTOR'S OPERATIONS.

2. 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 CONSTRUCTION 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.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES 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 OR THE VILLAGE. 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.

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

5. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)

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. ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE VILLAGE.

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

UTILITIES

9. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY OPERATIONS. COMPLIANCE WITH THE ABOVE WILL BE INCIDENTAL TO THE UTILITY INSTALLATIONS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS AND WATER MAINS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT OR RELOCATION OF THEIR FACILITIES, IF NECESSARY.

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

12. ALL MANHOLE, CATCH BASIN AND INLET COVERS, FRAMES AND GRATES THAT ARE VILLAGE CONTROLLED, SHALL CONFORM TO THE VILLAGE OF HUNTLEY SPECIFICATIONS AND DETAILS.

13. THE COST OF REMOVING EXISTING WATER MAIN IN ORDER TO CONSTRUCT NEW WATER MAIN OR WATER MAIN FITTINGS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE NEW WATER MAIN.

EROSION CONTROL

1. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL.

2. 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.

3. 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.

4. 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.

5. 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.

6. ALL SLOPES SHALL BE COVERED WITH SEED AS SOON AS GRADING AND PLACEMENT OF TOPSOIL HAS BEEN COMPLETED. THE LIMITS OF THE SEEDING SHALL BE THE LIMITS OF GRADING.

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

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

9. SEE STANDARD 280001-06 FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL DETAILS AND REQUIREMENTS.

10. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY CONSTRUCTION EQUIPMENT OR BY HIS LABORERS. THE CONTRACTOR SHALL MAKE SURE THAT DEBRIS OR ANY KIND OF CONSTRUCTION WASTE MATERIAL IS NOT DISPOSED OF OR STORED IN WETLANDS.

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

12. TREE PROTECTION SHALL CONSIST OF ITEMS "TEMPORARY FENCING" AND "TREE TRUNK PROTECTION" AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS. TEMPORARY FENCING SHALL BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. AFTER TREES ARE SAFELY FENCED, NOTHING IS TO BE STORED, DRIVEN, OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

13. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.

14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS DETERMINED BY THE ENGINEER.

FILE NAME = ...\2473.GENNOTE_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**GENERAL NOTES**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BAS	REVISED -			4068	07-00031-00-PV	McHENRY	167	3
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 63743		
	PLOT DATE = 11/14/2012	DATE - 10/22/12	REVISED -		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------	

MAINTENANCE OF TRAFFIC GENERAL NOTES

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

3. ALL CONSTRUCTION SIGNS SHALL HAVE FLUORESCENT ORANGE BACKGROUNDS.

4. 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.

5. 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, EXCEPT THAT ALL BARRICADES SHALL HAVE MONO-DIRECTIONAL STEADY-BURN LIGHTS. 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 701901-02.

6. ALL BARRICADES AT LANE DIVERSIONS WITHIN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.

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, 25' ALONG TAPERS AND 10' AROUND RADII.

8. DRUMS SHALL HAVE ALTERNATING REFLECTORIZED TYPE AA OR TYPE AP FLUORESCENT ORANGE AND REFLECTORIZED WHITE HORIZONTAL, CIRCUMFERENTIAL STRIPES.

9. DRUMS AND BARRICADES SHALL MEET THE REQUIREMENTS OF THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE SPECIAL PROVISION "WORK ZONE TRAFFIC CONTROL DEVICES".

10. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-02 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT. A MINIMUM OF TWO TYPE III BARRICADES WITH ROAD CLOSED SIGNS, R11-2 SHALL BE PLACED AT EACH OF THE FOLLOWING LOCATIONS: THE SOUTH END OF KREUTZER ROAD (SOUTH OF MAIN STREET), AND AT THE WEST END OF KREUTZER ROAD (WEST OF ILLINOIS ROUTE 47). BARRICADES SHALL BE REMOVED WHEN KREUTZER ROAD IS OPENED TO TRAFFIC. THIS WORK SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

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

12. 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.

13. THE FIRST WARNING SIGNS IN EACH DIRECTION OF TRAVEL SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS DURING HOURS OF DARKNESS. FLAGS ARE OPTIONAL.

14. 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.

15. TEMPORARY LANE CLOSURES WILL BE ALLOWED ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M., WITH TRAFFIC MAINTAINED IN ACCORDANCE WITH STANDARD 701501-06, 701601-07, OR 701701-08 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

16. "WORKERS" SIGNS SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. SIGN MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.

17. "FRESH OIL" SIGNS (W21-2-4848) WITH DATE SIGNS SHALL BE ERECTED 48 HOURS PRIOR TO PRIMING ALONG KREUTZER ROAD. THE COST OF THESE SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

18. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES, AND SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

19. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, DRUMS, WARNING LIGHTS, AND SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)". QUANTITIES FOR SHORT-TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS ARE NOT INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.

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

VILLAGE OF HUNTLEY APPROVED MATERIAL LIST - WATER SYSTEM			
MATERIAL	SPECIFICATION	MANUFACTURER*	CATALOG TAG*
FIRE HYDRANTS	AWWA C-502	MUELLER	CENTURIAN A-423 STAINLESS STEEL BOLTS
VALVE BOX		TYLER	664 S
VALVE BOX STABILIZER		ADAPTOR II	
VALVE VAULT (PRECAST)	ASTM C478		
EXTERNAL CHIMNEY SEAL		ADAPTOR INC.	
VALVES 6" - 10"	AWWA C509	MUELLER	A2360
DUCTILE IRON PIPE CLASS 52	ANSI A21.51 SPECIAL CI 52		
DIP JOINTS	ANSI A21.11		
INTERNAL LINING	ANSI A21.4 OR AWWA C205		
EXTERNAL COATING DIP FITTINGS	ANSI A21.10 OR A21.53		
POLYETHYLENE ENCASEMENT	AWWA C/105/A21.5		8 MIL
TAPPING VALVES	AWWA C500	MUELLER	A2360-20
TAPPING SLEEVES		SMITH BLAIR MUELLER	665 H304

*NOTE: OR APPROVED EQUAL

VILLAGE OF HUNTLEY APPROVED MATERIAL LIST - STORM SYSTEM			
MATERIAL	SPECIFICATION	MANUFACTURER*	CATALOG TAG*
REINFORCED CONCRETE PIPE	ASTM C76	CLASS III	
O-RING JOINTS	ASTM C443		
CURB W/BOX		NEENAH EAST JORDAN	R3281-A** 7210
STORM MANHOLE		NEENAH EAST JORDAN	R-1772 1022

*NOTE: OR APPROVED EQUAL
**NOTE: FOR FLAT CURB PLATE SEE NEENAH R-3246-1, OR E.J. M3 GRATE

VILLAGE OF HUNTLEY APPROVED MATERIAL LIST - SIGNS			
MATERIAL	SPECIFICATION	MANUFACTURER*	CATALOG TAG*
SIGN 10' POLE, 3' BASE		TELESPAR	1.75" 14 GA 2" GA
POST BRACKET STREET NAME	E-SERIES	LYLE	E450
POST BRACKET	E-SERIES	LYLE	BLACK OLP CANTILEVER/DECORATIVE
STREET LIGHT STREET NAME BRACKET		LYLE	
STREET NAME PRIMARY	9" BLADE, 6" LETTERS HIGH INTENSITY PRISMATIC		WHITE LETTERS ON GREEN BACKGROUND
STREET NAME SECONDARY	6" BLADE, 4" LETTERS HIGH INTENSITY PRISMATIC		WHITE LETTERS ON GREEN BACKGROUND
STREET NAME POST 12' MIN	GALVANIZED STEEL 2 AND 3/8 INCH OD		

*NOTE: OR APPROVED EQUAL

VILLAGE OF HUNTLEY APPROVED MATERIAL LIST - MISC			
MATERIAL	SPECIFICATION	MANUFACTURER*	CATALOG TAG*
ADA DETECTABLE WARNING SYSTEMS	ADA ADAAG	METAL PANEL	
REFLECTIVE PAVEMENT MARKERS RECESSED	R-100	MARKER ONE	

*NOTE: OR APPROVED EQUAL

FILE NAME = ...\2473_GENNOTE_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
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	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	4
		CONTRACT NO. 63743		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT XXX------		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	71	71				
	20101000	TEMPORARY FENCE	FOOT	509	509				
	20200100	EARTH EXCAVATION	CU YD	41284	41284				
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10807	10807				
	20300100	CHANNEL EXCAVATION	CU YD	570		570			
	20400800	FURNISHED EXCAVATION	CU YD	100	100				
	20800150	TRENCH BACKFILL	CU YD	1260	1260				
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	5334	5334				
Δ	25000210	SEEDING, CLASS 2A	ACRE	1.50	1.50				
Δ	25000324	SEEDING, CLASS 5B	ACRE	1.25	1.25				
Δ	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	368	368				
Δ	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	368	368				
Δ	25100630	EROSION CONTROL BLANKET	SQ YD	24350	24350				
Δ	25200200	SUPPLEMENTAL WATERING	UNIT	100	100				
Δ	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	503	503				
•	28000305	TEMPORARY DITCH CHECKS	FOOT	168	168				
	28000400	PERIMETER EROSION BARRIER	FOOT	6744	6744				
	28000510	INLET FILTERS	EACH	81	81				
	28100107	STONE RIPRAP, CLASS A4	SQ YD	762	95	667			
	28200200	FILTER FABRIC	SQ YD	762	95	667			
•	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1425	1425				
•	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	24765	24765				
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	636	636				
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	3415	3415				
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	13654	13654				
	40600300	AGGREGATE (PRIME COAT)	TON	9	9				
	40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	12	12				
	40600990	TEMPORARY RAMP	SQ YD	40	40				
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	7767	7767				
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	342	342				
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1941	1941				

• INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEMS

FILE NAME = ...\2473_S00_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
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	PLOT DATE = 2/6/2013	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	5
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	3457	3457				
42001300	PROTECTIVE COAT	SQ YD	7034	7034				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	370	370				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1876	1876				
42400800	DETECTABLE WARNINGS	SQ FT	132	132				
44000100	PAVEMENT REMOVAL	SQ YD	4221	4221				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	518	518				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3283	3283				
44000600	SIDEWALK REMOVAL	SQ FT	707	707				
44004250	PAVED SHOULDER REMOVAL	SQ YD	71	71				
50200100	STRUCTURE EXCAVATION	CU YD	9				9	
50300225	CONCRETE STRUCTURES	CU YD	75.5		75.5			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	277		277			
50300260	BRIDGE DECK GROOVING	SQ YD	679		679			
50300300	PROTECTIVE COAT	SQ YD	768		768			
50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	528		528			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	69280		69280			
50800515	BAR SPLICERS	EACH	86		86			
Δ 50901720	BICYCLE RAILING	FOOT	66		66			
Δ 50901750	PARAPET RAILING	FOOT	62		62			
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	920		920			
51202305	DRIVING PILES	FOOT	920		920			
51203200	TEST PILE METAL SHELLS	EACH	2		2			
51500100	NAME PLATES	EACH	1		1			
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	73	73				
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2				
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2				
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	4	4				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4				
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1				
54215550	METAL END SECTIONS 15"	EACH	1	1				

* INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEMS

FILE NAME = ...\12473_500_02.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BAS	REVISED -					4068	07-00031-00-PV	McHENRY	167	6
	PLOT SCALE = 1.0000 ' / in.	CHECKED - CAB	REVISED -								CONTRACT NO. 63743	
	PLOT DATE = 2/22/2013	DATE - 10/22/12	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
	55000050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	854	854				
	55000070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	7	7				
	55000140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	144	144				
	55000160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	497	497				
	55000340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	457	457				
	55000360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	17	17				
	55000380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	422	422				
	55000410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	1099	1099				
	55000430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	148	148				
	55000450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1043	1043				
	55000470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	15	15				
	55000490	STORM SEWERS, CLASS A, TYPE 2 54"	FOOT	344	344				
	55100500	STORM SEWER REMOVAL 12"	FOOT	434	434				
	55100700	STORM SEWER REMOVAL 15"	FOOT	149	149				
	55101100	STORM SEWER REMOVAL 21"	FOOT	47	47				
	55101800	STORM SEWER REMOVAL 42"	FOOT	373	373				
Δ	56100050	DUCTILE IRON WATER MAIN TEE 12" X 6"	EACH	3	3				
Δ	56100075	DUCTILE IRON WATER MAIN TEE 16" X 6"	EACH	1	1				
Δ	56100600	WATER MAIN 6"	FOOT	67	67				
Δ	56100900	WATER MAIN 12"	FOOT	24	24				
Δ	56109424	DUCTILE IRON WATER MAIN FITTINGS 12" 45.00 DEGREE BEND	EACH	4	4				
Δ *	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1	1				
Δ *	56400800	FIRE HYDRANT AND VALVE TO BE MOVED	EACH	4	4				
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	146		109		37	
	60100955	PIPE DRAINS 15"	FOOT	12	12				
	60107600	PIPE UNDERDRAINS 4"	FOOT	309	309				
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	26	26				
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3				
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	4	4				
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9	9				
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	13	13				
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				

* INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEMS

FILE NAME = ...\12473.500.03.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - BAS	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 2/22/2013	DATE - 10/22/12	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	7
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX--------		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
	60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	1	1				
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	27	27				
	60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1				
	60255500	MANHOLES TO BE ADJUSTED	EACH	3	3				
	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4	4				
	60256940	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	3	3				
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2				
	60261540	INLETS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1				
	60263000	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1				
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3				
	60500040	REMOVING MANHOLES	EACH	2	2				
	60500050	REMOVING CATCH BASINS	EACH	9	9				
	60500060	REMOVING INLETS	EACH	6	6				
	60603800	COMBINATION CURB AND GUTTER, TYPE B-6.12	FOOT	361	361				
	60605000	COMBINATION CURB AND GUTTER, TYPE B-6.24	FOOT	8767	8767				
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1982	1982				
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	1789	1789				
	60801024	FLAP GATE 24"	EACH	1	1				
Δ	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	88	88				
Δ	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4				
Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4				
	63200310	GUARDRAIL REMOVAL	FOOT	162	162				
Δ	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	60	60				
Δ	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
Δ	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8				
	67100100	MOBILIZATION	L SUM	1	1				
	67201000	SEALING ABANDONED WATER WELLS	EACH	1	1				
	70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1				
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1				
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1				
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				

* INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEMS

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		DRAWN - BAS	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 11/14/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	8
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. :	ILLINOIS	FED. AID PROJECT XXX------		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
	72000100	SIGN PANEL - TYPE 1	SQ FT	105	105				
	72000200	SIGN PANEL - TYPE 2	SQ FT	54	54				
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	9	9				
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1				
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	237	237				
	72900100	METAL POST - TYPE A	FOOT	41	41				
Δ	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	248	248				
Δ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12205	12205				
Δ	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	880	880				
Δ	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	768	768				
Δ	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	19	19				
Δ	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	162	162				
Δ	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	460	460				
Δ	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1897	1897				
Δ	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	99	99				
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	767	767				
Δ	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	873			873		
Δ	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	233	166		67		
Δ	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	83			83		
Δ	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	716			716		
Δ	81400100	HANDHOLE	EACH	1			1		
Δ	81400200	HEAVY-DUTY HANDHOLE	EACH	1			1		
Δ	81400300	DOUBLE HANDHOLE	EACH	2			2		
Δ	81603037	UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	931	931				
Δ	81603100	UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	118	118				
Δ	84200804	REMOVAL OF POLE FOUNDATION	EACH	4	4				
Δ	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4	4				
Δ *	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2		
Δ	85100701	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1			1		
Δ	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6767			6767		
Δ	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	588			588		
Δ	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1700			1700		
Δ	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3928			3928		

* INDICATES SPECIAL PROVISION
Δ SPECIALTY ITEMS

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DESIGNED - BAS | DRAWN - BAS | CHECKED - GAB | DATE - 10/22/12
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	9
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
Δ	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1160			1160		
Δ	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2212			2212		
Δ	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	983			983		
Δ	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1			1		
Δ	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12			12		
Δ *	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30			30		
Δ *	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42			42		
Δ	87900200	DRILL EXISTING HANDHOLE	EACH	7			7		
Δ	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1			1		
Δ	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2			2		
Δ	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	13			13		
Δ	88500100	INDUCTIVE LOOP DETECTOR	EACH	5			5		
Δ	88600100	DETECTOR LOOP, TYPE I	FOOT	656			656		
Δ	88600700	PREFORMED DETECTOR LOOP	FOOT	986			986		
Δ	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2			2		
Δ	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1		
Δ	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	15			15		
Δ	89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	3			3		
Δ	89501300	RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	3			3		
Δ *	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4			4		
Δ	89502200	MODIFY EXISTING CONTROLLER	EACH	1			1		
Δ	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9135	2802		6333		
Δ *	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1		
Δ *	89502380	REMOVE EXISTING HANDHOLE	EACH	3			3		
Δ *	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1			1		
Δ *	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7			7		
Δ	D2001760	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 5' HEIGHT, BALLED AND BURLAPPED	EACH	25	25				
Δ	X0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	42	42				
*	X0322871	MAINTENANCE OF EROSION CONTROL SYSTEM	L SUM	1	1				
*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1				
Δ *	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1098			1098		
*	X0325751	DRIVING SOLDIER PILES	FOOT	492				492	
*	X0326606	WASHOUT BASIN	L SUM	1	1				

* INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEMS

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	PLOT DATE = 11/14/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	MCHENRY	167	10
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX--------		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0001 ROADWAY	0008 BRIDGE SN 056-6010	0021 TRAFFIC SIGNALS	0040 RETAINING WALLS	0042 TRAINEES
*	X0327036	BIKE PATH REMOVAL	SQ YD	46	46				
*	X0426200	DEWATERING	L SUM	1	1				
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	20	20				
Δ *	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	3.75	3.75				
Δ *	X2501820	SEEDING, CLASS 5 (MODIFIED)	ACRE	3.75	3.75				
Δ *	X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	1.25	1.25				
*	X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	715	715				
*	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	280		208		72	
*	X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	2	2				
*	X6020294	MANHOLES, TYPE A , 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1				
*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	9	9				
*	X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	3	3				
Δ *	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	232	232				
Δ *	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	6796			6796		
*	Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	1290				1290	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
*	Z0019600	DUST CONTROL WATERING	UNIT	1000	1000				
*	Z0022810	FENCE REMOVAL (SPECIAL)	FOOT	306	306				
*	Z0026402	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	492				492	
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8	8				
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1		
*	Z0043698	PRECAST CONCRETE PANEL	SQ FT	976				976	
*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	144		144			
*	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	260	260				
*	Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	31	31				
*	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	73	73				
*	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	92	92				
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1			1		
*	Z0076600	TRAINEES	HOURS	500					500
*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURS	500					500
Δ *	XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	5456			5456		
	XX008834	CONCRETE CAP	FOOT	162				162	
Δ	X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	4	4				

* INDICATES SPECIAL PROVISION
Δ SPECIALTY ITEMS

FILE NAME = ...\2473_S00_07.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
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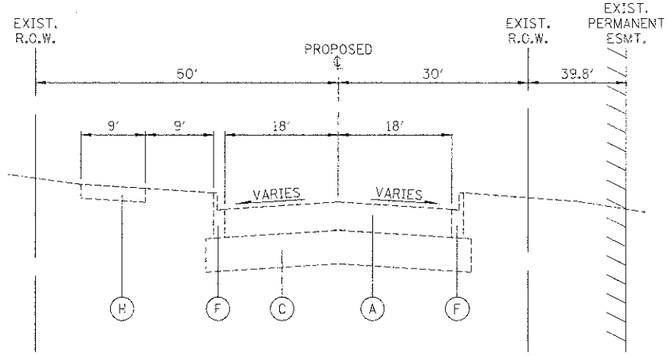
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 12/14/2012	DATE - 10/22/12	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

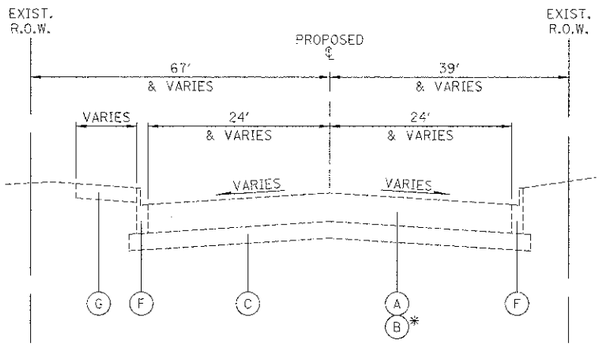
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	11
		CONTRACT NO. 63743		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT XXX-



KREUTZER ROAD

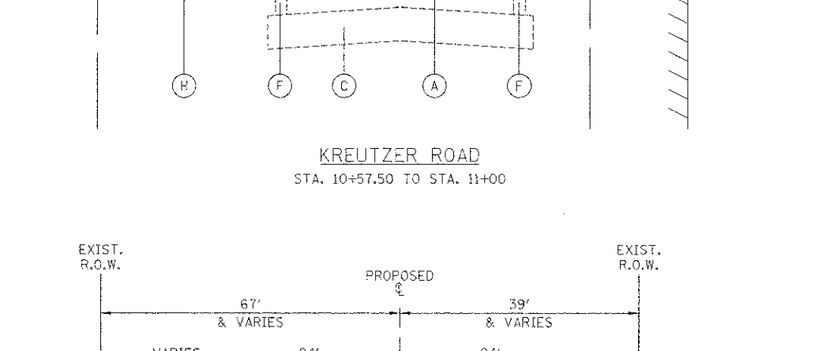
STA. 10+57.50 TO STA. 11+00



KREUTZER ROAD

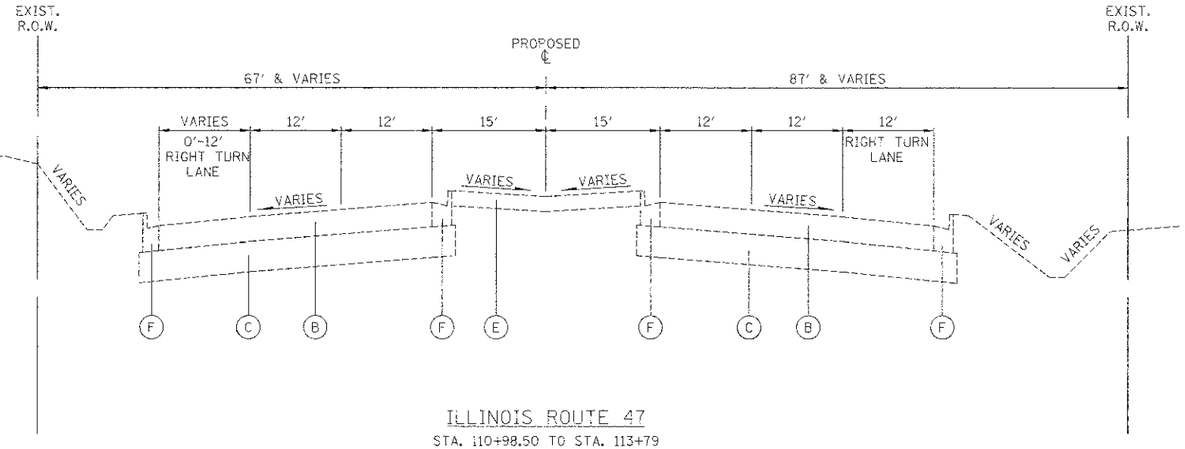
STA. 41+80 TO STA. 44+45

*STA. 44+45 TO STA. 47+17



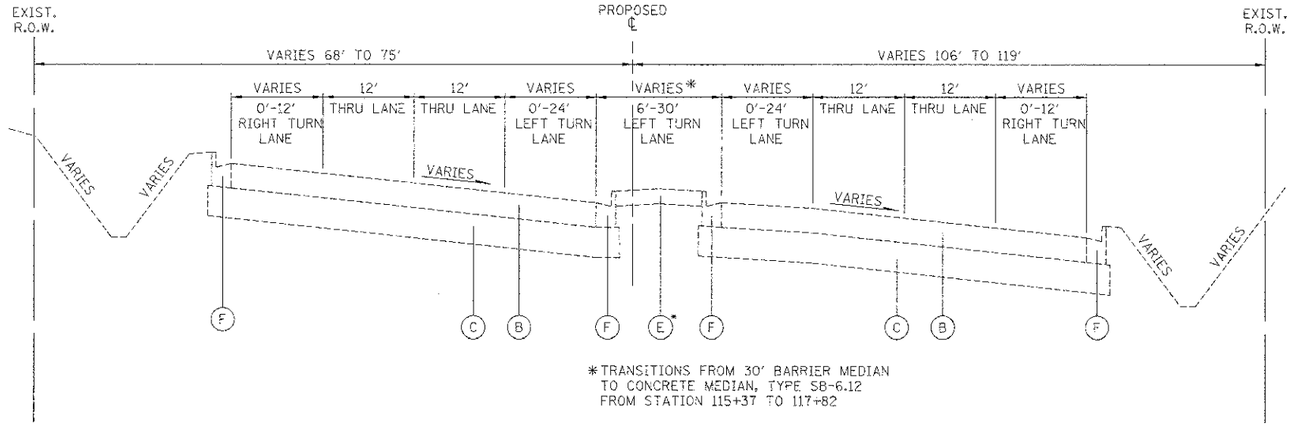
KREUTZER ROAD

STA. 47+17 TO STA. 51+43.69



ILLINOIS ROUTE 47

STA. 110+98.50 TO STA. 113+79



*TRANSITIONS FROM 30' BARRIER MEDIAN
TO CONCRETE MEDIAN, TYPE SB-6.12
FROM STATION 115+37 TO 117+82

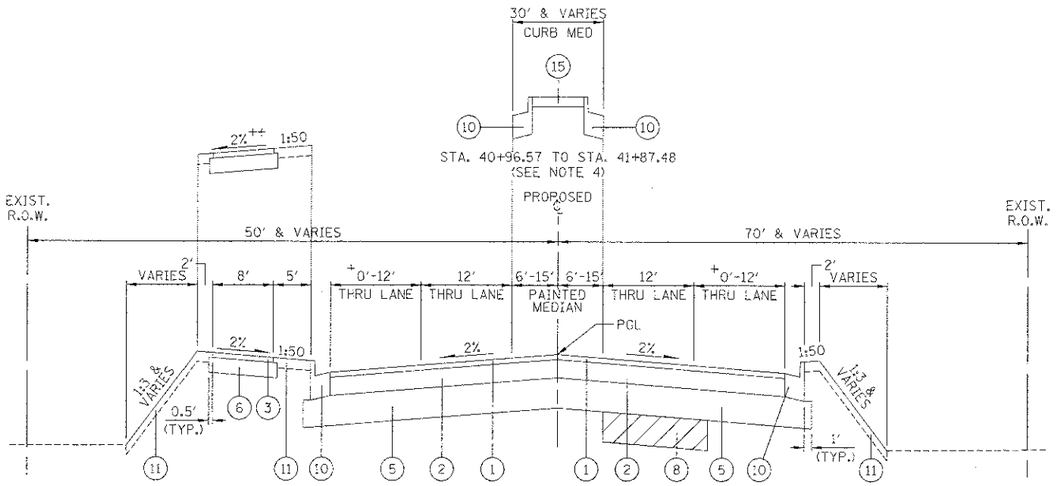
ILLINOIS ROUTE 47

STA. 113+79 TO STA. 125+70.60

EXISTING LEGEND

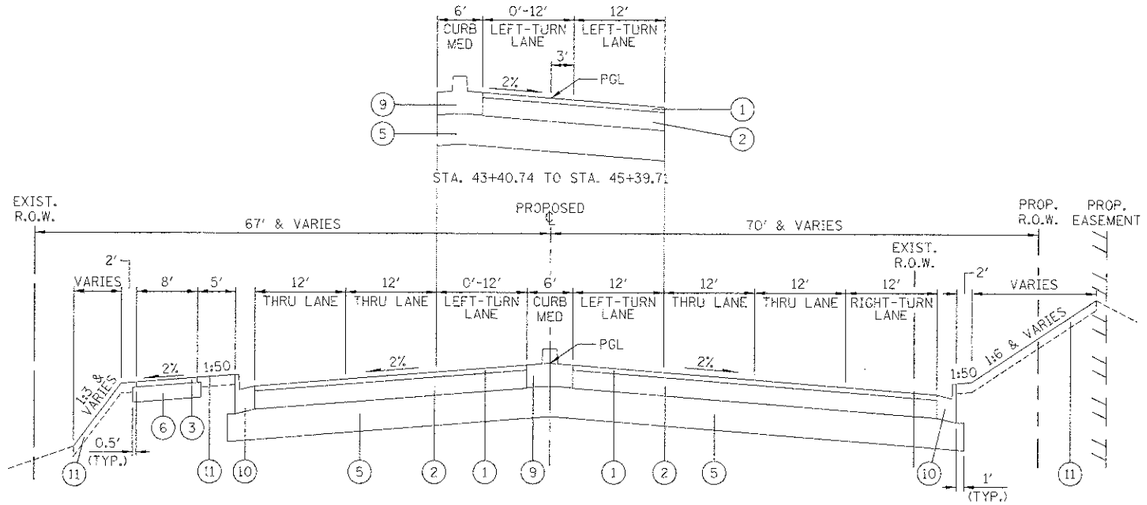
- (A) EXISTING BITUMINOUS PAVEMENT, VARIES 7.5"-14.5"
- (B) EXISTING PCC PAVEMENT, 10"
- (C) EXISTING SUB-BASE GRANULAR MATERIAL
- (D) EXISTING CONCRETE MEDIAN
- (E) EXISTING LANDSCAPE MEDIAN
- (F) EXISTING CONCRETE CURB & GUTTER
- (G) EXISTING AGGREGATE SHOULDER
- (H) EXISTING BITUMINOUS BIKE PATH

FILE NAME = ...\03-Typicals\247-3_TYP_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BAS	REVISED -					4068	07-0031-00-PV	McHENRY	167	12
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -							CONTRACT NO. 63743		
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------	



KREUTZER ROAD

STA. 10+57.50 TO STA. 17+16.23
STA. 18+43.77 TO STA. 42+50.71
+STA. 36+25.57 TO STA. 42+50.71
++STA. 37+50.00 TO STA. 42+50.71



KREUTZER ROAD

STA. 42+50.71 TO STA. 45+50.89

NOTES:

1. THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LB/SY-IN.
2. FOR PERCENT OF RAP, SEE DISTRICT ONE SPECIAL PROVISIONS.
3. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA, THE "AC TYPE" SHALL BE "PG 64-28" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
4. ADDITIONAL SUBGRADE THICKNESS BELOW MEDIAN AREA SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR AGGREGATE SUBGRADE IMPROVEMENT, 12" AND SHALL NOT BE PAID FOR SEPARATELY.

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR KREUTZER ROAD - STA. 10+57 TO STA. 45+51

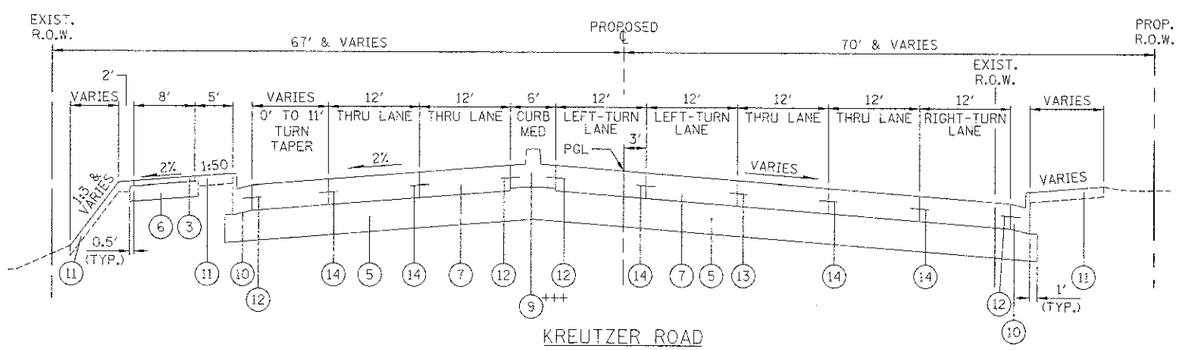
STRUCTURAL TRAFFIC:	YEAR 2032 PV = 10,450 SU = 220 MU = 330
ROAD/STREET CLASSIFICATION:	CLASS II P = 95% S = 2% M = 3%
TRAFFIC FACTOR:	ACTUAL TF = 1.53 MINIMUM TF = N/A
AC GRADE:	BINDER = PG 64-22 SURFACE = PG 64-28
SUBGRADE SUPPORT RATING:	SSR = POOR

PROPOSED LEGEND

1. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
2. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"
3. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
4. NOT USED
5. AGGREGATE SUBGRADE IMPROVEMENT, 12" (SEE NOTE 4 BELOW)
6. SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
7. PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
8. AGGREGATE SUBGRADE IMPROVEMENT (SEE TABLE ON SHEET 14)
9. CONCRETE MEDIAN, TYPE SB-6.12
10. COMBINATION CONCRETE CURB AND GUTTER, B-6.24
11. TOPSOIL EXCAVATION AND PLACEMENT, 6" SEEDING, FERTILIZER, AND EROSION MAT
12. LONGITUDINAL CONSTRUCTION JOINT - #6 STEEL TIE BAR, 24" C-C, COST INCLUDED IN COMBINATION CONCRETE CURB AND GUTTER PAY ITEM
13. LONGITUDINAL CONSTRUCTION JOINT - #6 STEEL TIE BAR, COST INCLUDED IN PCC PAVEMENT, 10" (JOINTED)
14. LONGITUDINAL SAWED JOINT - #6 EPOXY COATED STEEL TIE BAR, 24" C-C, COST INCLUDED IN PCC PAVEMENT, 10" (JOINTED)
15. CONCRETE MEDIAN SURFACE, 4"

MIXTURE REQUIREMENT

PAY ITEM	AIR VOIDS @ Ndes
HOT-MIX ASPHALT PAVEMENT - KREUTZER ROAD	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (2")	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (8") (IN 2 LIFTS)	4% @ 70 GYR.
STABILIZED HOT-MIX ASPHALT PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.
TEMPORARY PAVEMENT, 9"	
TEMP PAVEMENT (HMA BINDER IL-19mm) (2")	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm) (7") (IN 3 LIFTS)	4% @ 50 GYR.



KREUTZER ROAD

STA. 45+50.89 TO STA. 47+17.05
+++STA. 45+50.89 TO STA. 46+15.74

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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

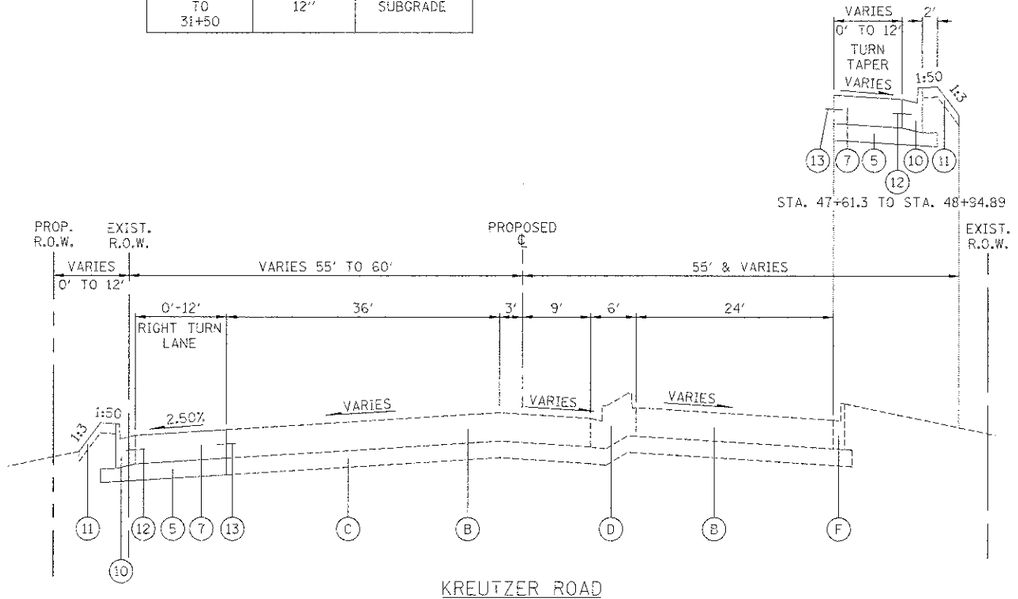
PROPOSED TYPICAL SECTIONS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	13
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

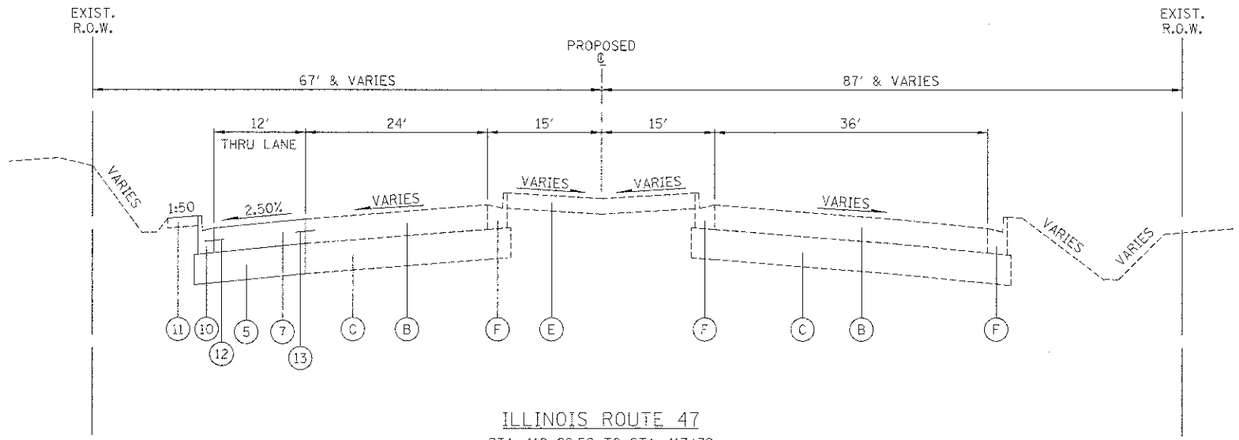
KREUTZER ROAD
AGGREGATE SUBGRADE IMPROVEMENT

STATION	DEPTH	DESCRIPTION
18+00 TO 20+50	12"	SUBGRADE
26+00 TO 29+00	12"	SUBGRADE
29+00 TO 31+50	12"	SUBGRADE



KREUTZER ROAD
STA. 47+17.05 TO STA. 51+43.52

STA. 47+61.3 TO STA. 48+94.89



ILLINOIS ROUTE 47
STA. 110+98.50 TO STA. 113+79

NOTES:

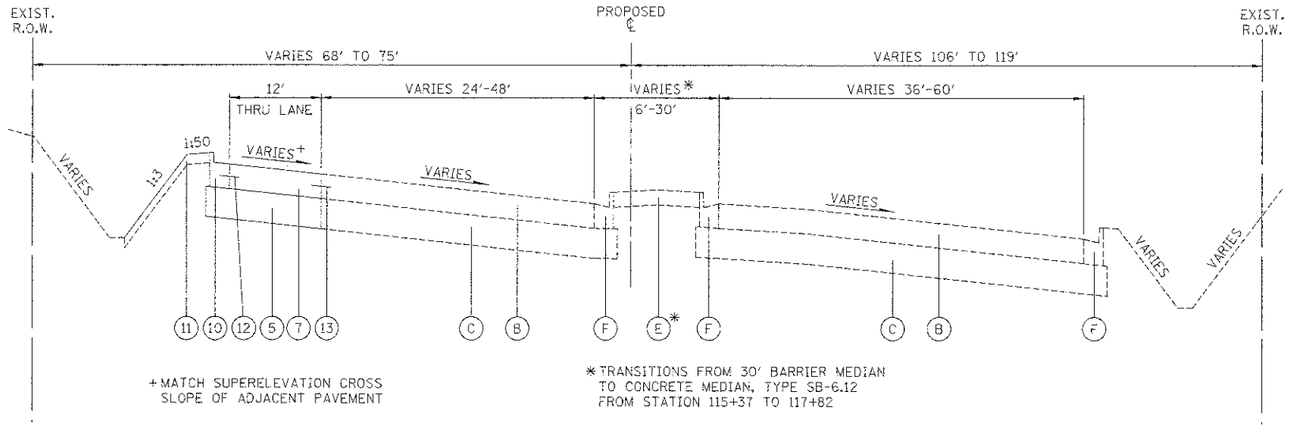
1. THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LB/SY-IN.
2. FOR PERCENT OF RAP, SEE DISTRICT ONE SPECIAL PROVISIONS.
3. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIED HMA, THE "AC TYPE" SHALL BE "PG 64-28" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
4. ADDITIONAL SUBGRADE THICKNESS BELOW MEDIAN AREA SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR AGGREGATE SUBGRADE IMPROVEMENT, 12" AND SHALL NOT BE PAID FOR SEPARATELY.

EXISTING LEGEND

- (A) EXISTING BITUMINOUS PAVEMENT, VARIES 7.5"-14.5"
- (B) EXISTING PCC PAVEMENT, 10"
- (C) EXISTING SUB-BASE GRANULAR MATERIAL
- (D) EXISTING CONCRETE MEDIAN
- (E) EXISTING LANDSCAPE MEDIAN
- (F) EXISTING CONCRETE CURB & GUTTER
- (G) EXISTING BITUMINOUS SHOULDER
- (H) EXISTING BITUMINOUS BIKE PATH

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (4) NOT USED
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SEE NOTE 4)
- (6) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- (8) AGGREGATE SUBGRADE IMPROVEMENT (SEE TABLE ON THIS SHEET)
- (9) CONCRETE MEDIAN, TYPE SB-6.12
- (10) COMBINATION CONCRETE CURB AND GUTTER, B-6.24
- (11) TOPSOIL EXCAVATION AND PLACEMENT, 6" SEEDING, FERTILIZER, AND EROSION MAT
- (12) LONGITUDINAL CONSTRUCTION JOINT - #6 STEEL TIE BAR, 24" C-C, COST INCLUDED IN COMBINATION CONCRETE CURB AND GUTTER PAY ITEM
- (13) LONGITUDINAL CONSTRUCTION JOINT - #6 STEEL TIE BAR, COST INCLUDED IN PCC PAVEMENT, 10" (JOINTED)
- (14) LONGITUDINAL SAWED JOINT - #6 EPOXY COATED STEEL TIE BAR, 24" C-C, COST INCLUDED IN PCC PAVEMENT, 10" (JOINTED)
- (15) CONCRETE MEDIAN SURFACE, 4"



+MATCH SUPERELEVATION CROSS SLOPE OF ADJACENT PAVEMENT

*TRANSITIONS FROM 30' BARRIER MEDIAN TO CONCRETE MEDIAN, TYPE SB-6.12 FROM STATION 115+37 TO 117+82

ILLINOIS ROUTE 47
STA. 113+79 TO STA. 125+70.60

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	14
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

STATION		HOT-MIX ASPHALT SURFACE CSE, MIX "D", N70, 2"	HOT-MIX ASPHALT BINDER CSE, IL-19.0, N70, 8"	HOT-MIX ASPHALT SURFACE CSE, MIX "D", N50, 2"	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUBBASE GRANULAR MATERIAL TYPE B 6"	AGGREGATE SUBGRADE IMPROVEMENT	COMBINATION CC&G,TYPE B-6.12	COMBINATION CC&G,TYPE B-6.24	CONC MEDIAN SURFACE, 4 INCH	CONC MEDIAN, TYPE SB-6.12	PC CONC SIDEWALK 5 INCH	PCC DRIVEWAY PAVEMENT, 8 INCH	SUBBASE GRANULAR MATERIAL, TYPE B 4"
		40603340	40603085	40603335	42000501	30300112	31101400	30300001	60603800	60605000	60618300	60619600	42400200	42300400	31101200
		(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(CU YD)	(FOOT)	(FOOT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ YD)	(SQ YD)
KREUTZER RD	10+57.50 TO 15+50	221	882	49	0	2365	493	0	0	985	0	0	0	0	0
	15+50 TO 21+00	189	758	47	0	2028	470	618	0	846	0	0	0	0	0
	21+00 TO 26+00	224	896	48	0	2398	477	41	0	1000	0	0	0	0	0
	26+00 TO 31+50	269	1075	54	0	2850	538	752	0	1117	0	0	0	0	0
	31+50 TO 37+00	249	998	55	0	2665	550	14	0	1100	0	0	0	0	0
	37+00 TO 42+50	475	1901	55	0	5000	548	0	90.5	1405	1815	0	820	50	148
	42+50 TO 48+00	314	1257	34	1759	5180	339	0	163.5	938	167	1789	811	142	276
	48+00 TO 51+43.69	0	0	0	374	556	0	0	0	443	0	0	0	0	0
IL ROUTE 47	110+98.50 TO 114+00	0	0	0	402	522	0	0	0	302	0	0	0	0	0
	114+00 TO 119+00	0	0	0	674	876	0	0	107	428	0	0	0	178	185
	119+00 TO 125+70.60	0	0	0	248	325	0	0	0	206	0	0	245	0	27
	TOTALS	1941	7767	342	3457	24765	3415	1425	361	8767	1982	1789	1876	370	636

STATION		THERMOPLASTIC PAVT. MARKING-LETTERS & SYMBOLS	THERMOPLASTIC PAVT. MARKING-LINE 4"	THERMOPLASTIC PAVT. MARKING-LINE 6"	THERMOPLASTIC PAVT. MARKING-LINE 12"	THERMOPLASTIC PAVT. MARKING-LINE 24"	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 24"	RECESSED REFLECTIVE PAVMENT MARKER	SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	REMOVE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE A	TELESCOPING STEEL SIGN SUPPORT
		78000100	78000200	78000400	78000600	78000650	78008200	78008210	78008230	78008270	X7810300	72000100	72000200	72400100	72400500	72800100
		(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(SQ FT)	(SQ FT)	(EACH)	(EACH)	(FOOT)
KREUTZER RD	10+57.50 TO 24+00	0	5370	0	303	0	0	0	0	0	68	5.0	0	3	0	15.5
	24+00 TO 38+50	32.3	5262	181	285	0	0	0	0	0	76	25.5	36.0	0	0	78.1
	38+50 TO 51+43.69	216.0	1573	699	180	19	32.3	110	399	75	54	74.5	18.0	6	1	143.2
IL ROUTE 47	110+98.50 TO 120+00	0	0	0	0	0	32.3	300	435	0	28	0	0	0	0	0
	120+00 TO 123+50	0	0	0	0	0	64.6	40	638	24	4	0	0	0	0	0
	123+50 TO 125+70.60	0	0	0	0	0	32.3	10	425	0	2	0	0	0	0	0
	TOTALS	248.3	12205	880	768	19	161.5	460	1897	99	232	105.0	54.0	9	1	236.8
	ADJUSTED QUANTITY	248					162					105	54			237

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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	15
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

STATION		EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET FILTERS	STONE RIPRAP, CLASS A4	SEEDING, CLASS 2A	SEEDING, CLASS 4 (MODIFIED)	SEEDING, CLASS 5 (MODIFIED)	SEEDING, CLASS 4B (MODIFIED)	SEEDING, CLASS 5B	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
		25100630	28000250	28000305	28000400	28000510	28100107	25000210	X2501800	X2501820	X2502024	25000324	25000400	25000600
		(SQ YD)	(POUND)	(FOOT)	(FOOT)	(EACH)	(SQ YD)	(ACRE)	(ACRE)	(ACRE)	(ACRE)	(ACRE)	(POUND)	(POUND)
KREUTZER RD	10+57.50 TO 26+00	16029	331	14	3140	31	87	0.42	2.88	2.88	1.11	1.11	265	265
	26+00 TO 38+50	4214	87	70	1673	18	8	0.42	0.45	0.45	0	0	52	52
	38+50 TO 51+43.69	2702	56	0	1824	19	0	0.45	0.11	0.11	0	0	34	34
IL ROUTE 47	110+98.50 TO 120+00	1405	29	84	107	11	0	0.05	0.24	0.24	0	0	17	17
	120+00 TO 123+50	0	0	0	0	2	0	0	0	0	0	0	0	0
	123+50 TO 125+70.60	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS		24350	503	168	6744	81	95	1.34	3.68	3.68	1.11	1.11	368	368
ADJUSTED QUANTITY								1.50	3.75	3.75	1.25	1.25		

STATION TO STATION		TOTALS BY STATION						
		CUT	TOPSOIL EXCAVATION+	TOPSOIL PLACEMENT	UNDERCUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT++
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
KREUTZER RD	10+57.50 TO 17+75	2511.1	1959.1	737.1	---	1222.0	1289.1	7012.5
	17+75 TO 26+00	3240.0	2244.8	797.2	659.2	2106.8	1133.2	15066.8
	26+00 TO 38+50	4129.8	2312.4	706.8	766.4	2372.0	1757.8	2954.2
	38+50 TO 47+00	3622.1	1823.1	356.7	---	1466.4	2155.7	1799.8
	47+00 TO 51+43.69	491.7	275.7	95.9	---	179.8	311.9	162.9
IL ROUTE 47	110+98.50 TO 120+00	1181.2	778.2	235.8	---	542.4	638.8	1082.6
	120+00 TO 125+70.60	1084.2	77.2	---	---	77.2	1007.0	47.5
AREA DB-1		6130.0	1087.4	499.8	---	587.6	5542.4	---
AREA CB-1		29700.0	4157.4	1905.1	---	2252.3	27447.7	---
CUMULATIVE TOTALS		52090.1	14715.3	5334.4	1425.6	10806.5	41283.6	28126.3

+12" DEPTH, TYPICAL

++INCLUDES 1.15 SHRINKAGE FACTOR

KREUTZER RD	13994.7	8615.1	2693.7	1425.6	7347.0	6647.7	26996.2
IL ROUTE 47	2265.4	855.4	235.8	0.0	619.6	1645.8	1130.1
AREA DB-1	6130.0	1087.4	499.8	0.0	587.6	5542.4	0.0
AREA CB-1	29700.0	4157.4	1905.1	0.0	2252.3	27447.7	0.0

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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

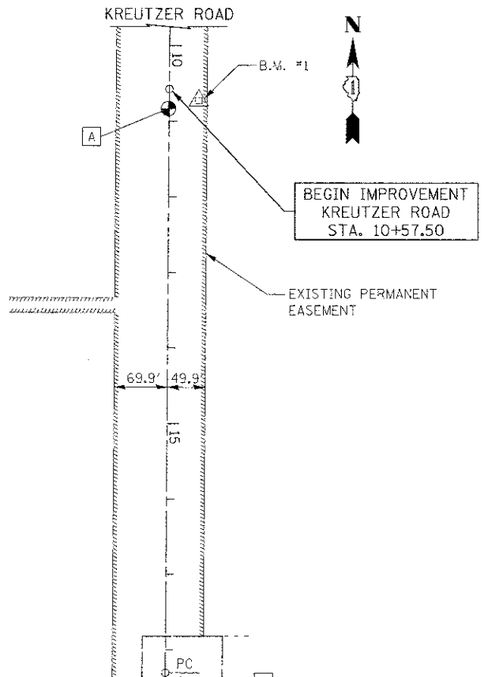
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	16
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

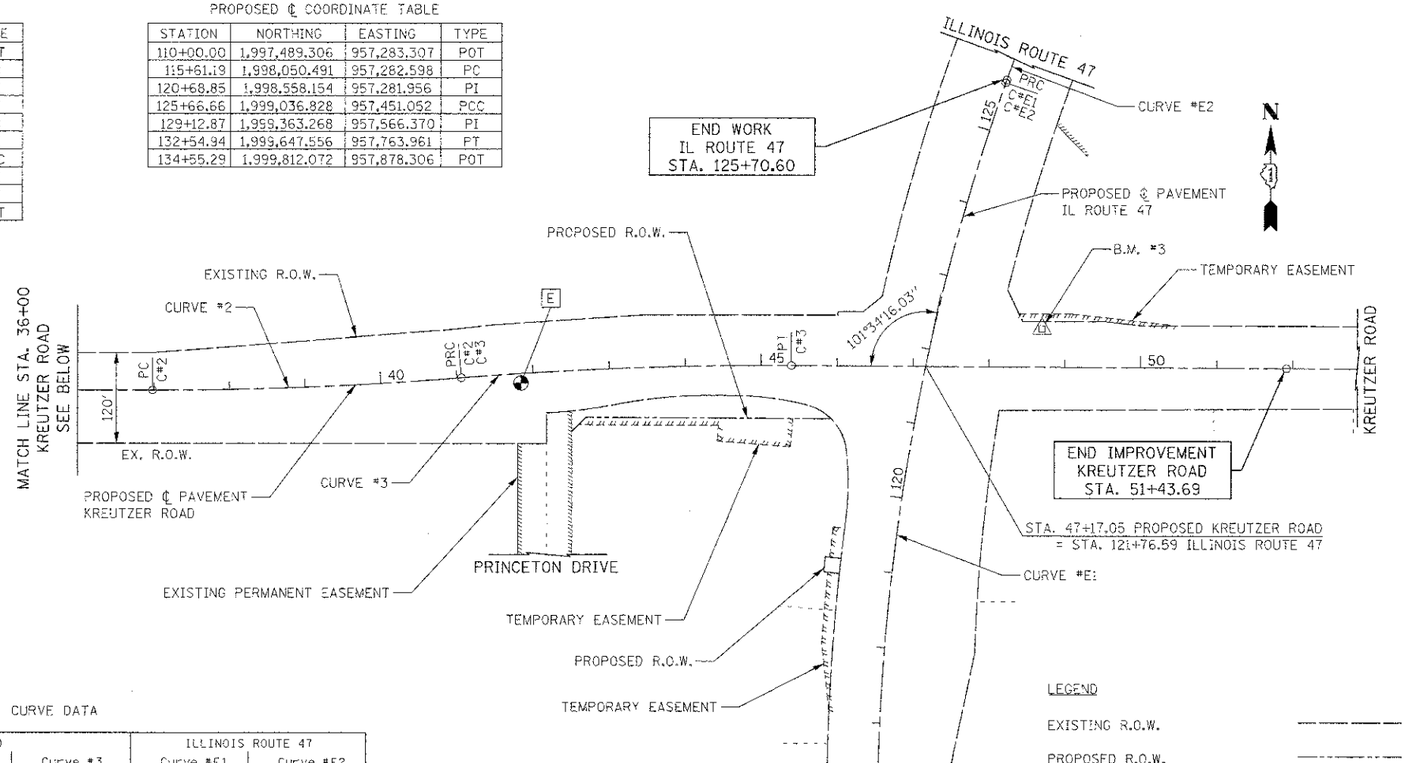
KREUTZER ROAD
PROPOSED ℄ COORDINATE TABLE

STATION	NORTHING	EASTING	TYPE
9+00.00	2,000,217.662	954,841.554	POT
18+29.89	1,999,287.786	954,836.772	PC
24+88.26	1,998,629.418	954,833.387	PI
28+62.13	1,998,629.418	955,491.763	PT
36+98.41	1,998,629.418	956,328.048	PC
39+02.11	1,998,629.418	956,531.741	PI
41+05.57	1,998,645.987	956,734.760	PRC
43+22.78	1,998,663.656	956,951.245	PI
45+39.71	1,998,682.483	957,168.446	PT
53+50.00	1,998,658.112	957,978.724	POT

ILLINOIS ROUTE 47
PROPOSED ℄ COORDINATE TABLE

STATION	NORTHING	EASTING	TYPE
110+00.00	1,997,489.306	957,283.307	POT
115+61.19	1,998,050.491	957,282.598	PC
120+68.85	1,998,558.154	957,281.956	PI
125+66.66	1,999,036.828	957,451.052	PCC
129+12.87	1,999,363.268	957,566.370	PI
132+54.94	1,999,647.556	957,763.961	PT
134+55.29	1,999,812.072	957,878.306	POT





CURVE DATA

	KREUTZER ROAD			ILLINOIS ROUTE 47	
	Curve #1	Curve #2	Curve #3	Curve #E1	Curve #E2
P.I.	STA. 24+88.26	STA. 39+02.11	STA. 43+22.78	STA. 120+68.85	STA. 129+12.87
Δ	90° 17' 41"	4° 39' 57"	4° 58' 29"	19° 31' 43"	15° 20' 40"
D	8° 44' 51"	1° 08' 45"	1° 08' 45"	1° 56' 32"	2° 13' 46"
R	655.00'	5,000.00'	5,000.00'	2,950.00'	2,570.00'
T	658.38'	203.69'	217.20'	507.66'	346.21'
L	1,032.24'	407.16'	434.14'	1,005.48'	688.28'
E	273.70'	4.15'	4.72'	43.36'	23.21'
e	N/A	N/A	N/A	0.027	0.029
T.R.	N/A	N/A	N/A	96.0'	N/A
P.C.	STA. 18+29.89	STA. 36+98.41	STA. 41+05.57	STA. 115+61.19	STA. 125+66.66
P.T.	STA. 28+62.13	STA. 41+05.57	STA. 45+39.71	STA. 125+66.66	STA. 132+54.94

LEGEND

EXISTING R.O.W. ———————

PROPOSED R.O.W. ———————

EXISTING PERMANENT EASEMENT ////////////

PROPOSED TEMPORARY EASEMENT ////////////

TIE POINT ◉

BENCHMARK △

NOTE:

1. BEARINGS AND COORDINATES ARE REFERENCED TO THE ILLINOIS COORDINATE SYSTEM NAD83, EAST ZONE, AS BROADCAST BY THE REGIONAL ILLINOIS GLOBAL POSITIONING NETWORK FROM REFERENCE STATION 0027 ON SEPTEMBER 14, 2007 AND ON NOVEMBER 29, 2007. ELEVATIONS ARE ON NAVD 88 DATUM.
2. REFER TO THE PLAT OF HIGHWAYS, SEE SHEETS 52 TO 61 FOR ROW AND EASEMENT LOCATIONS.

BENCHMARKS

BM #	APPROXIMATE LOCATION	ELEVATION
1	CROSS CUT (SET) IN WEST EDGE OF RIM OF SANITARY MANHOLE	875.54
2	CROSS CUT (SET) IN SOUTH EDGE OF RIM OF SANITARY MANHOLE	873.44
3	CROSS CUT IN SOUTHWEST FLANGE BOLT OF FIRE HYDRANT	882.74
4	CROSS CUT (SET) IN SOUTHEAST FLANGE BOLT OF FIRE HYDRANT	890.50

100 0 100
SCALE IN FEET

FILE NAME = ...\2473_ATB_01.dgn

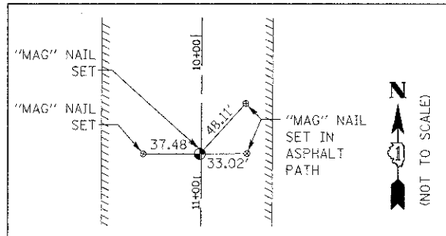
USER NAME = bas | DESIGNED - BAS | REVISED -
DRAWN - BAS | REVISED -
PLOT SCALE = 100.0000 ' / in. | CHECKED - GAB | REVISED -
PLOT DATE = 10/18/2012 | DATE - 10/22/12 | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

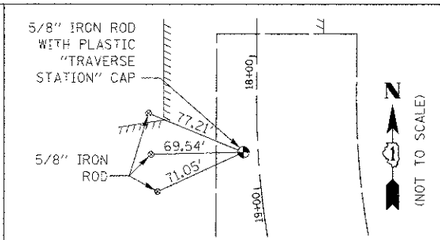
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

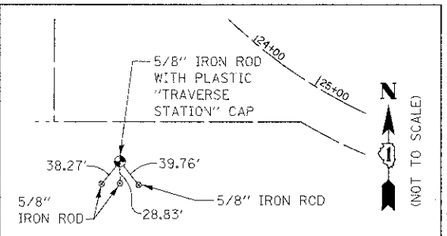
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	17
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		



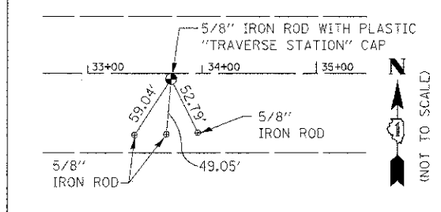
A — PROPOSED ℄ KREUTZER ROAD
STA. 10+83.43, 1.10' RT
N. 2,000,034.24 - E. 954,839.51



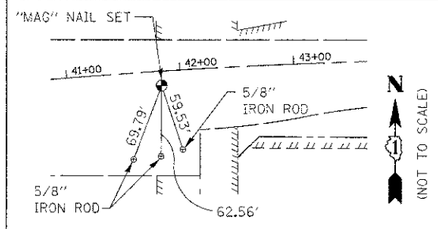
B — PROPOSED ℄ KREUTZER ROAD
STA. 18+71.94, 10.98' RT
N. 1,999,245.11 - E. 954,826.95



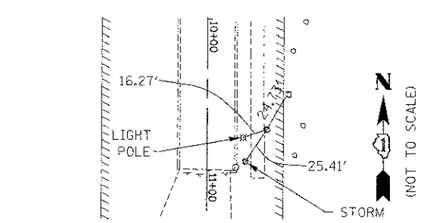
C — PROPOSED ℄ KREUTZER ROAD
STA. 23+77.62, 235.50' RT
N. 1,998,626.64 - E. 954,891.51



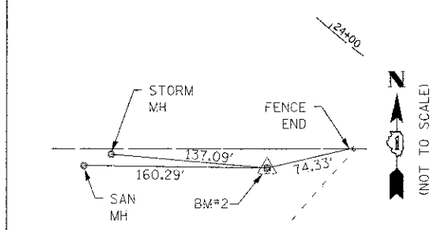
D — PROPOSED ℄ KREUTZER ROAD
STA. 33+73.05, 5.07' RT
N. 1,998,624.34 - E. 956,002.69



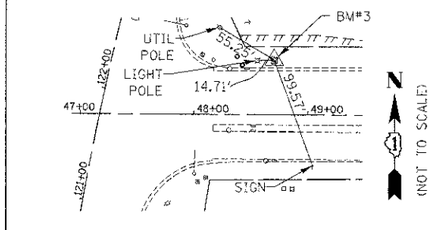
E — PROPOSED ℄ KREUTZER ROAD
STA. 41+83.36, 12.64' RT
N. 1,998,639.10 - E. 956,813.17



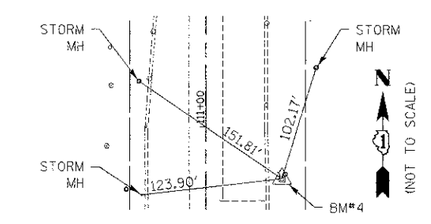
BM#1 — BENCHMARK #1
STA. 10+72.54, 38.88' LT
N. 2,000,044.93 - E. 954,879.54



BM#2 — BENCHMARK #2
STA. 24+32.70, 129.79' RT
N. 1,998,662.34 - E. 955,013.31



BM#3 — BENCHMARK #3
STA. 49+04.49, 44.70' RT
N. 1,998,615.82 - E. 957,532.98



BM#4 — BENCHMARK #4
STA. 110+54.33, 66.36' RT
N. 1,997,543.72 - E. 957,349.60

TIES ARE TO BE USED FOR LOCATING CONTROL POINTS

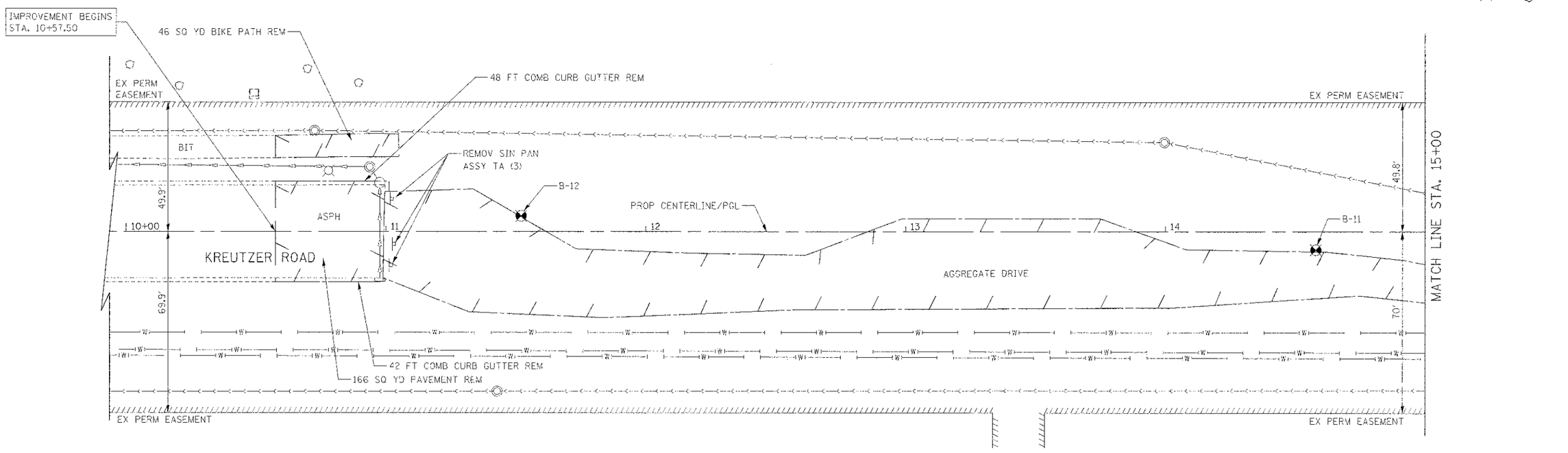
FILE NAME = ...\2473_ATB_02.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 100.3000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/16/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

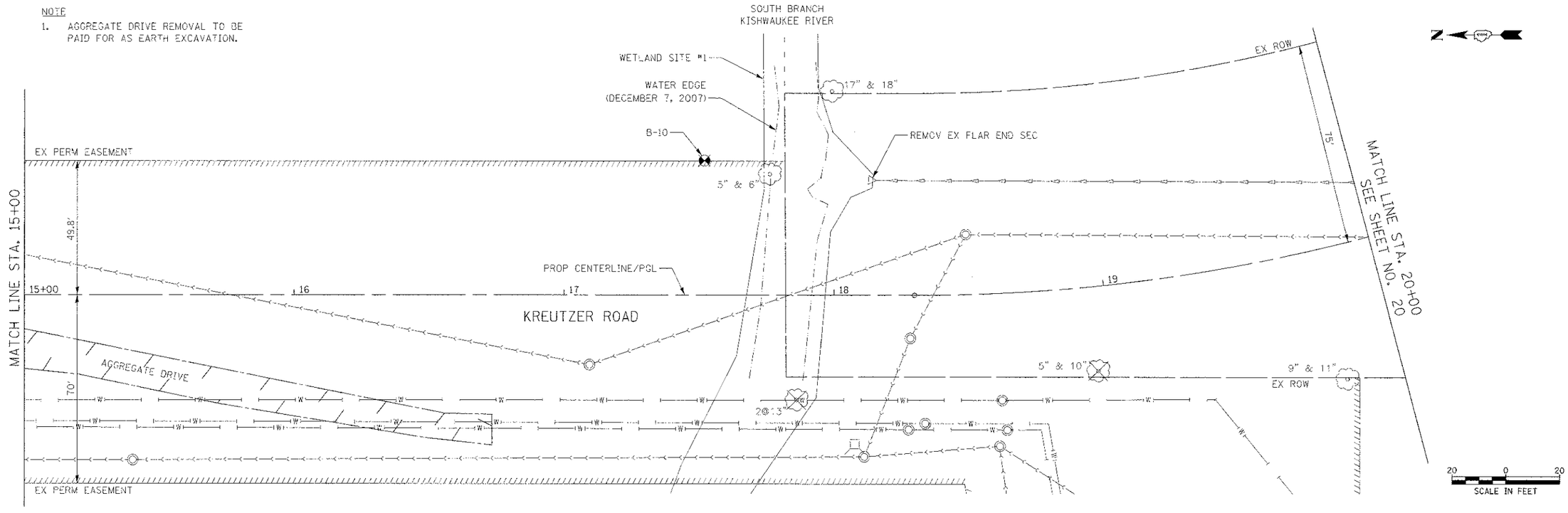
SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	18
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		



NOTE

1. AGGREGATE DRIVE REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.



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		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 1/14/2013	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 7 SHEETS | STA. 10+57 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	19
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

FILE NAME = ...\26-Removals\2473_REM_02.dgn	USER NAME = bae	DESIGNED - BAS	REVISED -
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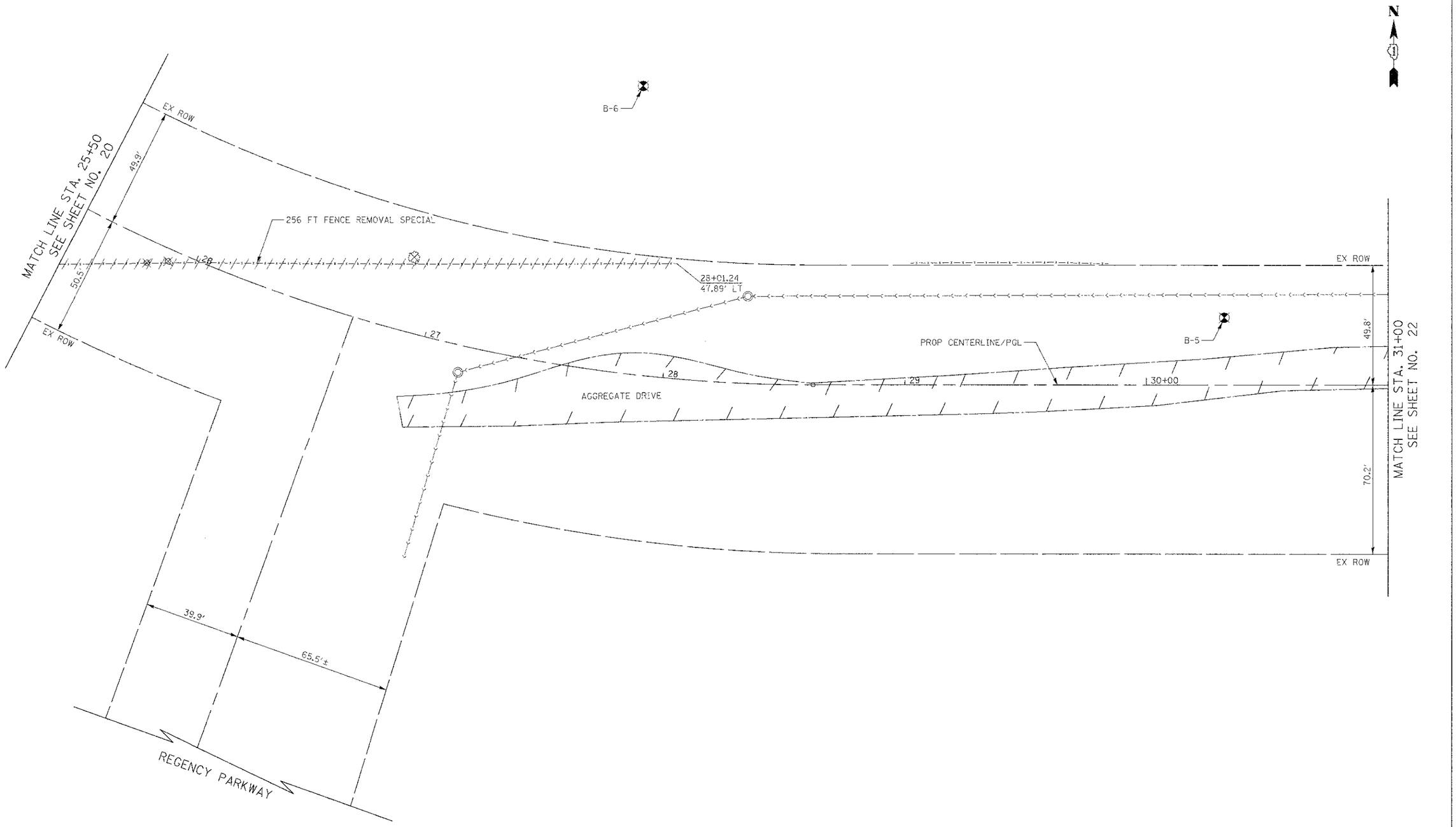
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 2 OF 7 SHEETS | STA. 20+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	20
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		



NOTE

1. AGGREGATE DRIVE REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.

20 0 20
SCALE IN FEET

KREUTZER ROAD

FILE NAME = ...\06-Removals\2473_REM_03.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
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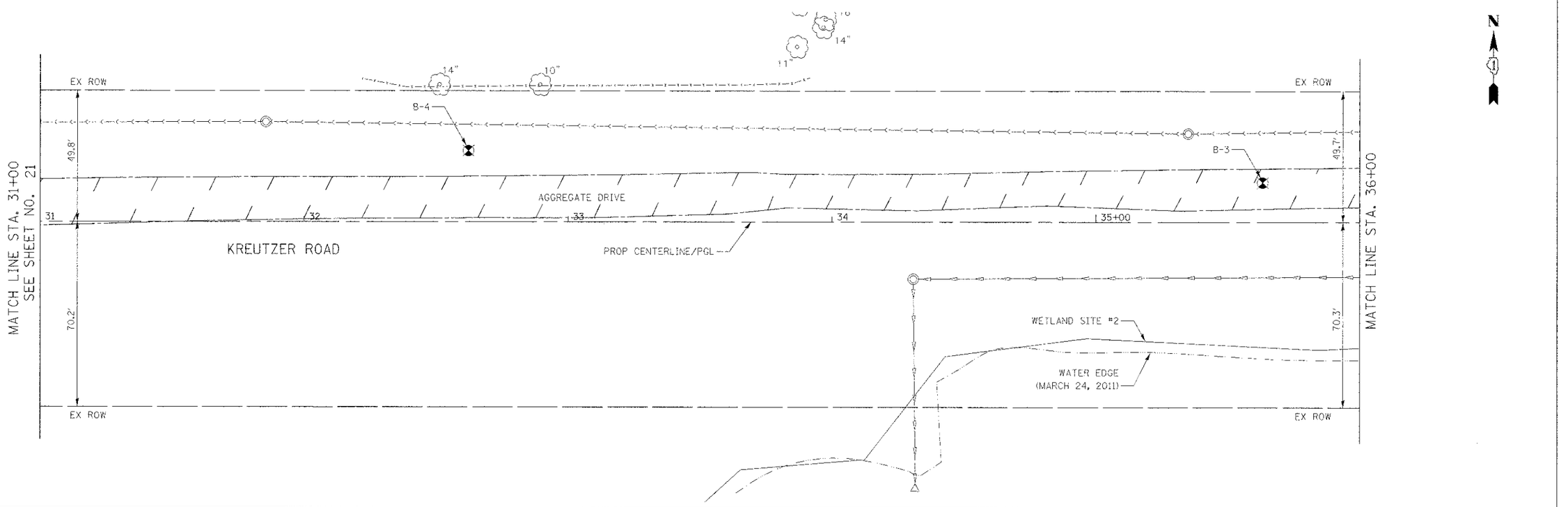
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

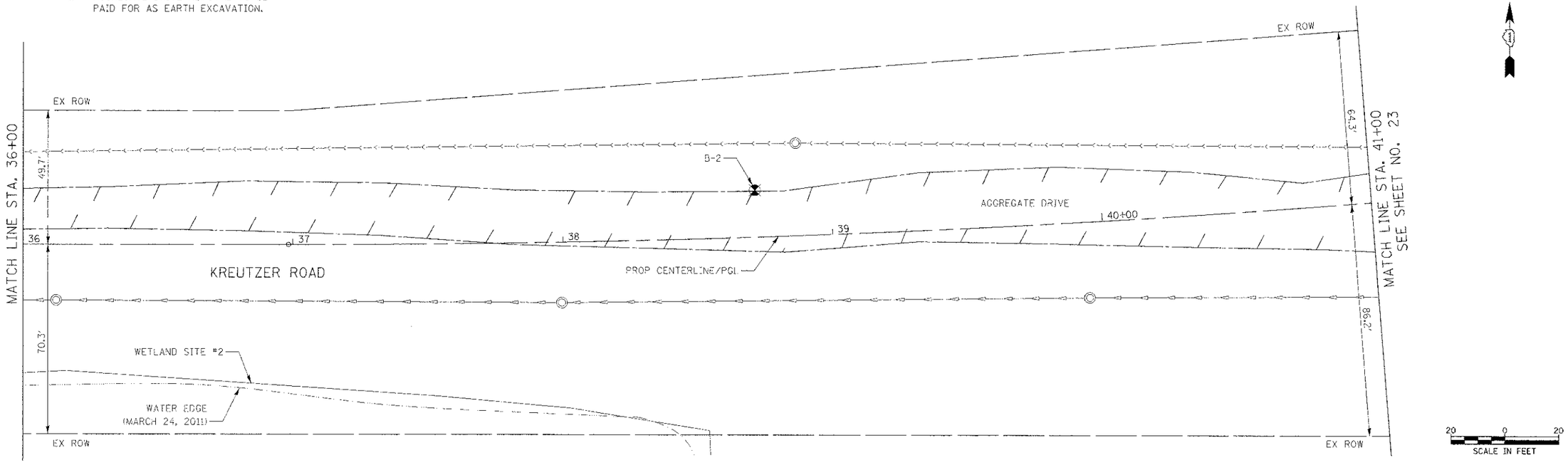
REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 3 OF 7 SHEETS | STA. 25+50 TO STA. 31+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	21
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT XXX-------		



NOTE
1. AGGREGATE DRIVE REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.



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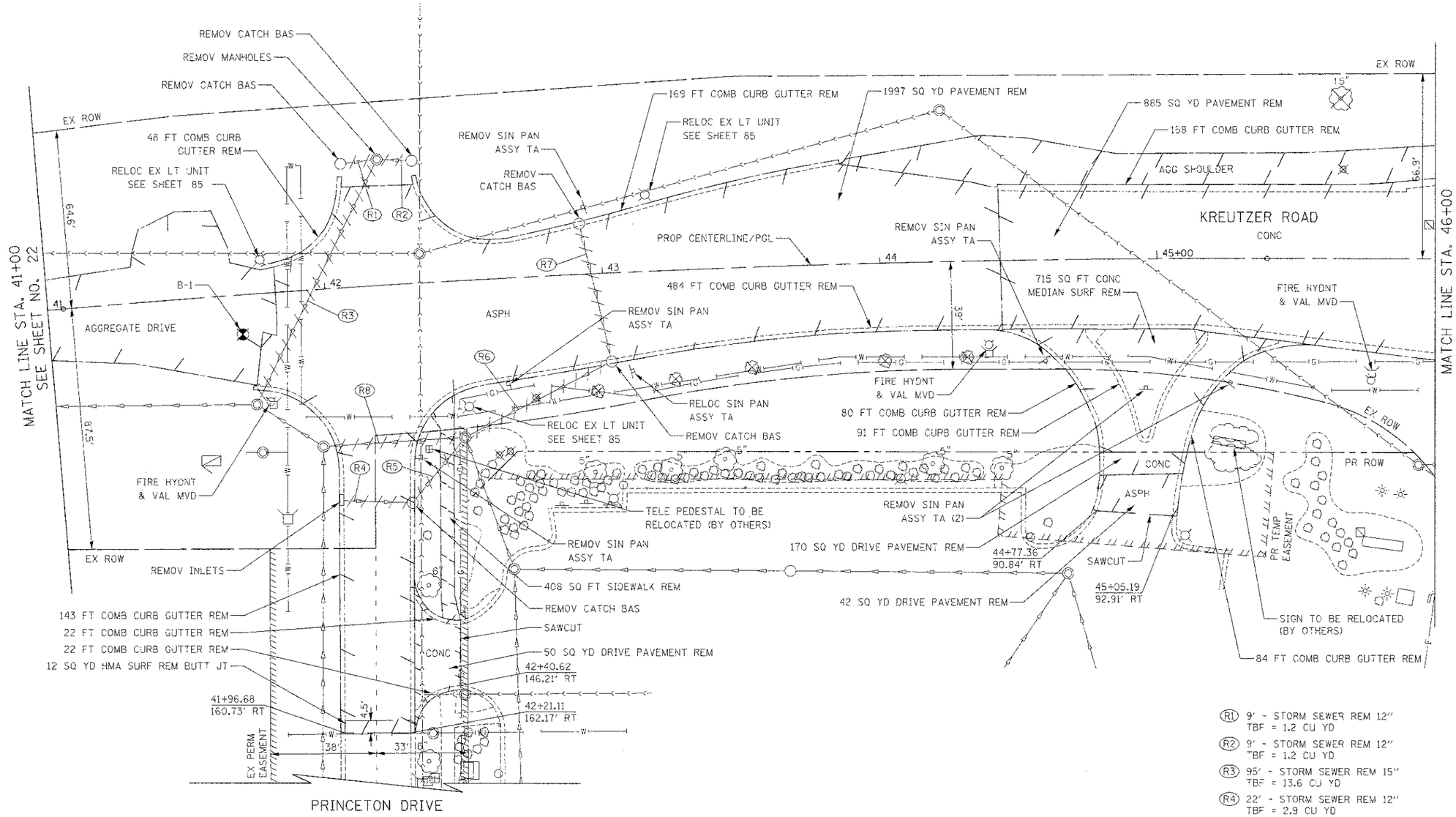
	PLOT DATE = 11/14/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 7 SHEETS | STA. 31+00 TO STA. 41+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	22
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX--------		



NOTE

1. AGGREGATE DRIVE AND AGGREGATE SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. REFER TO THE PLAT OF HIGHWAYS, SEE SHEETS 52 TO 61 FOR ROW AND EASEMENT LOCATIONS

(R1) 9' - STORM SEWER REM 12"
TBF = 1.2 CU YD

(R2) 9' - STORM SEWER REM 12"
TBF = 1.2 CU YD

(R3) 95' - STORM SEWER REM 15"
TBF = 13.6 CU YD

(R4) 22' - STORM SEWER REM 12"
TBF = 2.9 CU YD

(R5) 26' - STORM SEWER REM 12"
TBF = 4.8 CU YD

(R6) 54' - STORM SEWER REM 15"
TBF = 12.7 CU YD

(R7) 47' - STORM SEWER REM 12"
TBF = 6.2 CU YD

(R8) 47' - STORM SEWER REM 21"
TBF = 14.3 CU YD

20 0 20
SCALE IN FEET

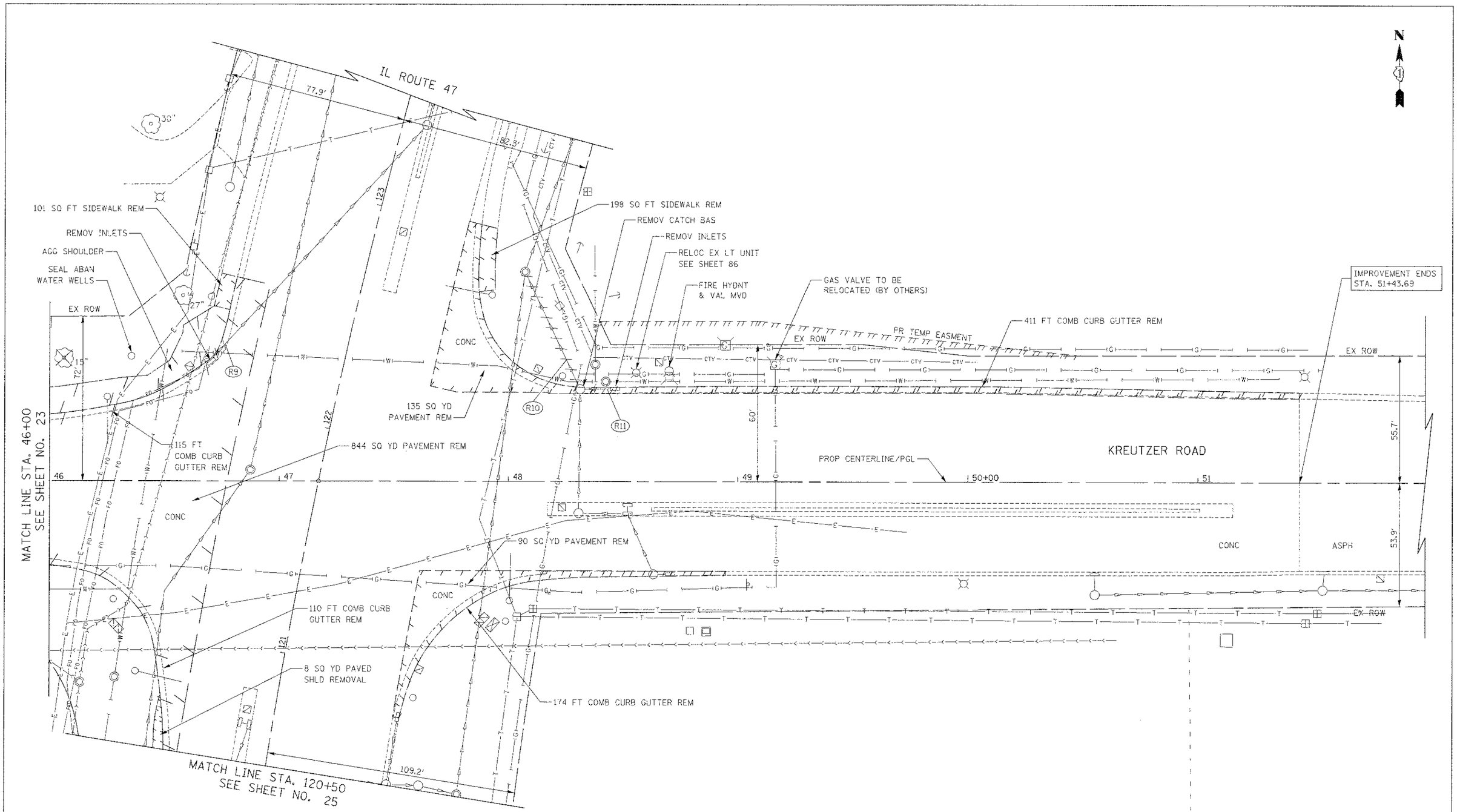
FILE NAME = ...\26-Removals\2473_REM_05.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 5 OF 7 SHEETS | STA. 41+00 TO STA. 46+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	23
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT XXX-------		



NOTE

1. AGGREGATE SHOULDER REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.
2. REFER TO THE PLAT OF HIGHWAYS, SEE SHEETS 52 TO 61 FOR ROW AND EASEMENT LOCATIONS

(R9) 12" - STORM SEWER REM 12" TBF = 1.8 CU YD

(R10) 53' - STORM SEWER REM 12" TBF = 0.0 CU YD

(R11) 12' - STORM SEWER REM 12" TBF = 1.8 CU YD

20 0 20
SCALE IN FEET

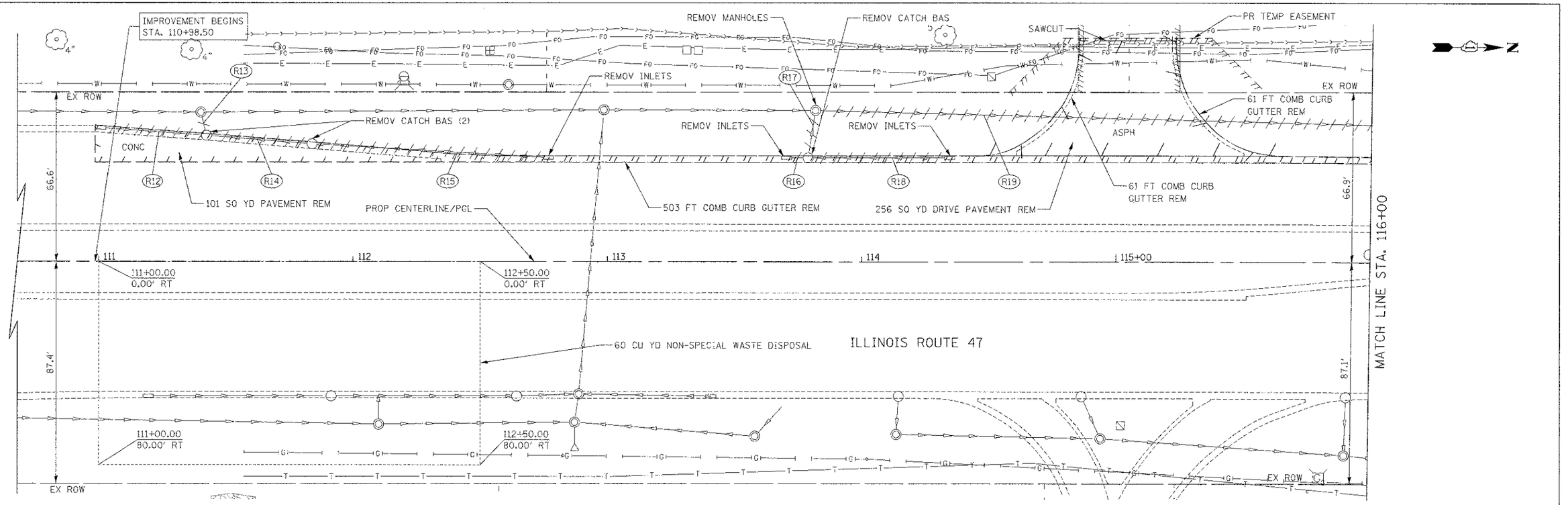
FILE NAME = ...\8A-Removals\2473_REM_06.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

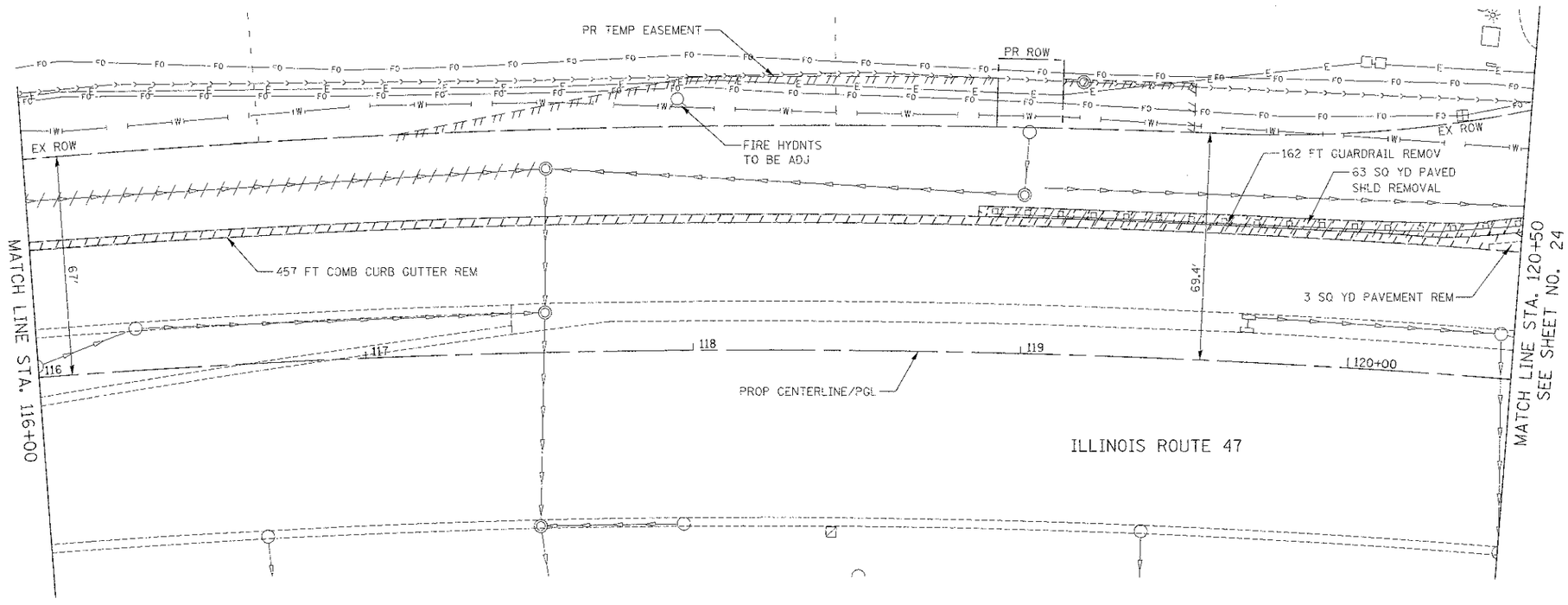
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 6 OF 7 SHEETS | STA. 46+00 TO STA. 51+44

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	24
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-----		





(R12) 39' - STORM SEWER REM 12"
TBF = 0.0 CU YD

(R13) 4' - STORM SEWER REM 12"
TBF = 0.0 CU YD

(R14) 38' - STORM SEWER REM 12"
TBF = 9.8 CU YD

(R15) 90' - STORM SEWER REM 12"
TBF = 17.5 CU YD

(R16) 6' - STORM SEWER REM 12"
TBF = 0.8 CU YD

(R17) 15' - STORM SEWER REM 12"
TBF = 4.3 CU YD

(R18) 52' - STORM SEWER REM 12"
TBF = 8.5 CU YD

(R19) 373' - STORM SEWER REM 42"
TBF = 248.4 CU YD

NOTE

1. REFER TO THE PLAT OF HIGHWAYS, SEE SHEETS 52 TO 61 FOR ROW AND EASEMENT LOCATIONS

20 0 20
SCALE IN FEET

FILE NAME = ...\06-Removals\2473_REM_07.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
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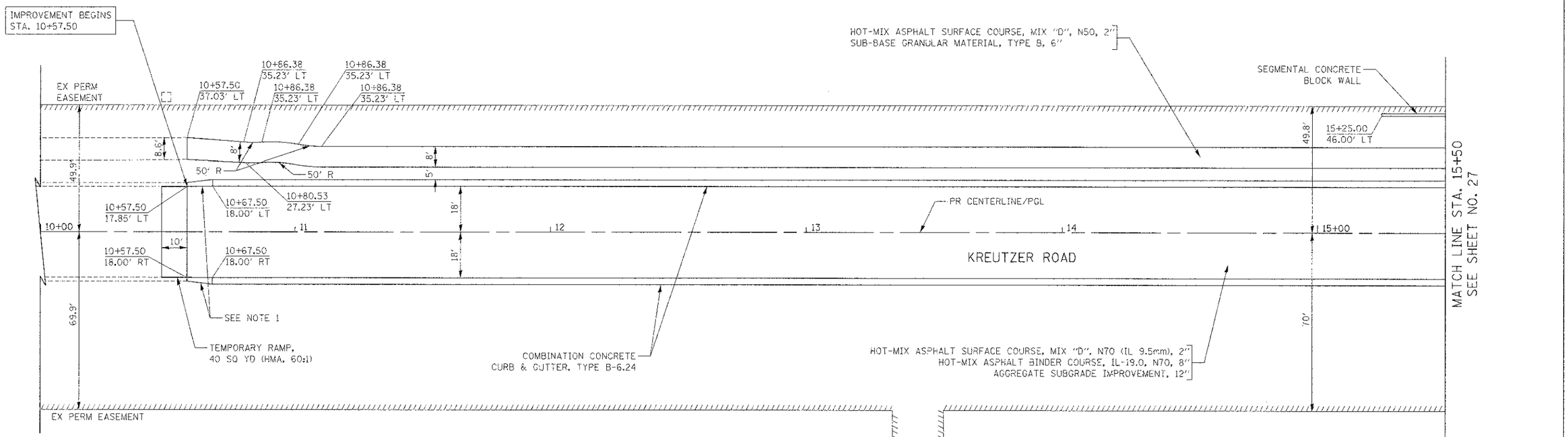
	PLOT DATE = 10/22/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 7 OF 7 SHEETS | STA. 110+98 TO STA. 120+50

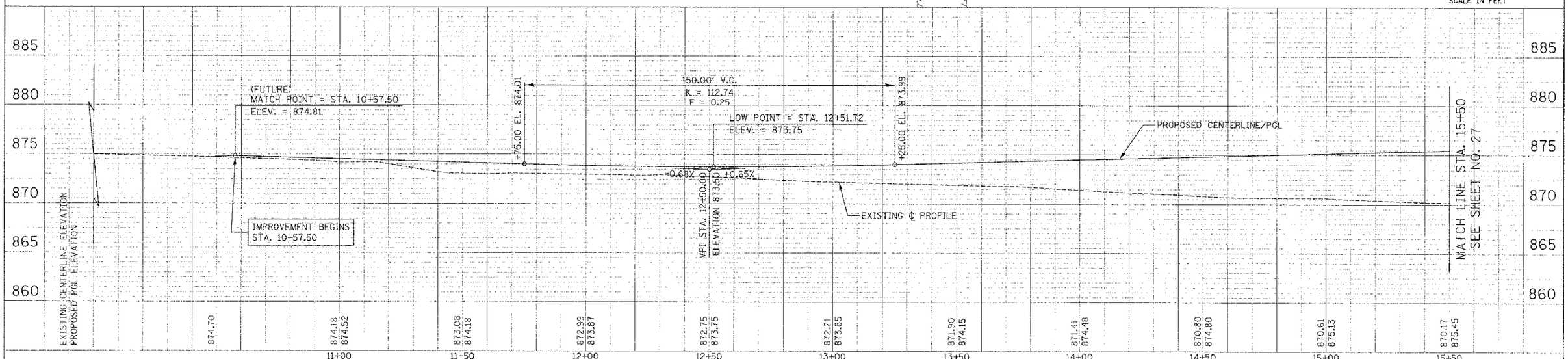
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	25
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT XXX-------		



NOTES:

1. TRANSITION FROM B-6.24 TO B-6.12 OVER 10'. PAID FOR AS "COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24".

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



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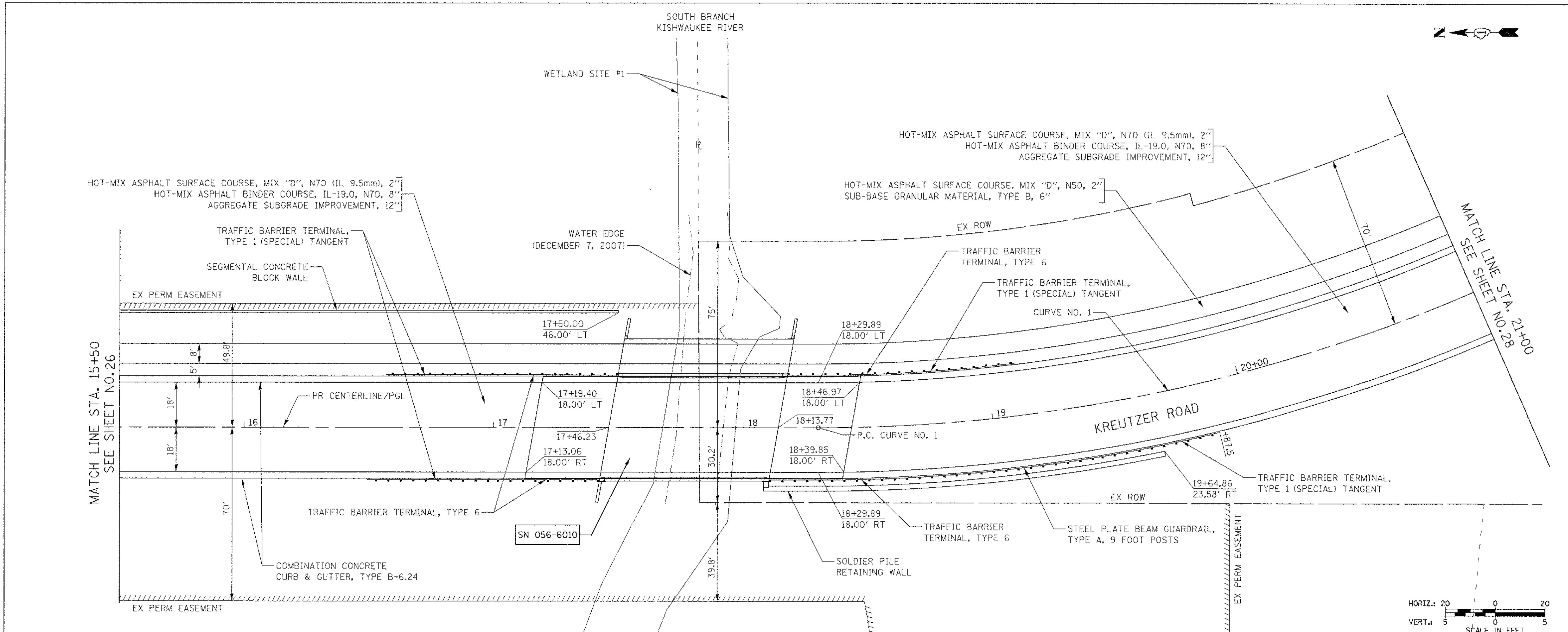
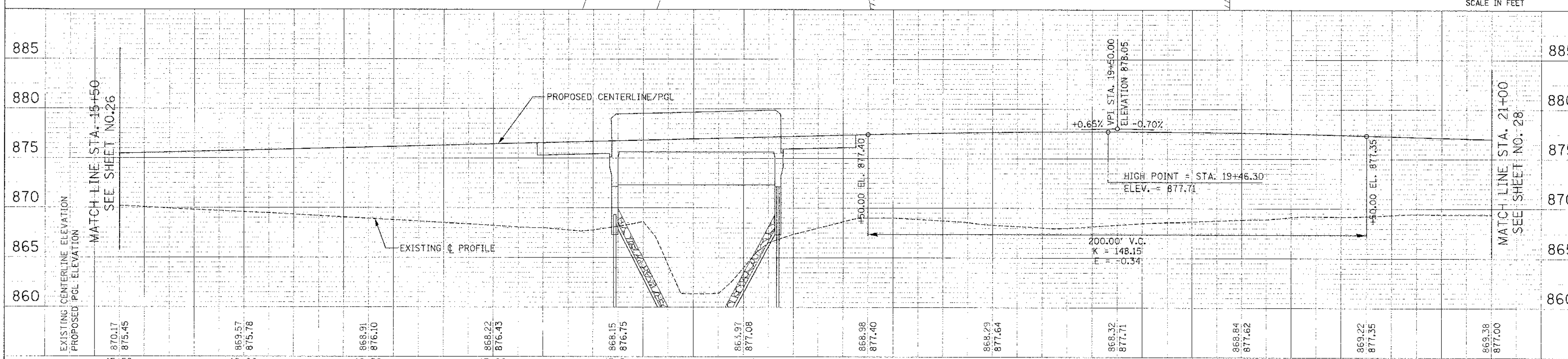
		DRAWN - BAS	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: 1" = 20' | SHEET NO. 1 OF 11 SHEETS | STA. 10+57 TO STA. 15+50
	PLOT DATE = 12/18/2012	DATE - 10/22/12	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	26
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1 | ILLINOIS		FED. AID PROJECT XXX------		

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

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





FILE NAME =	USER NAME = bas	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE
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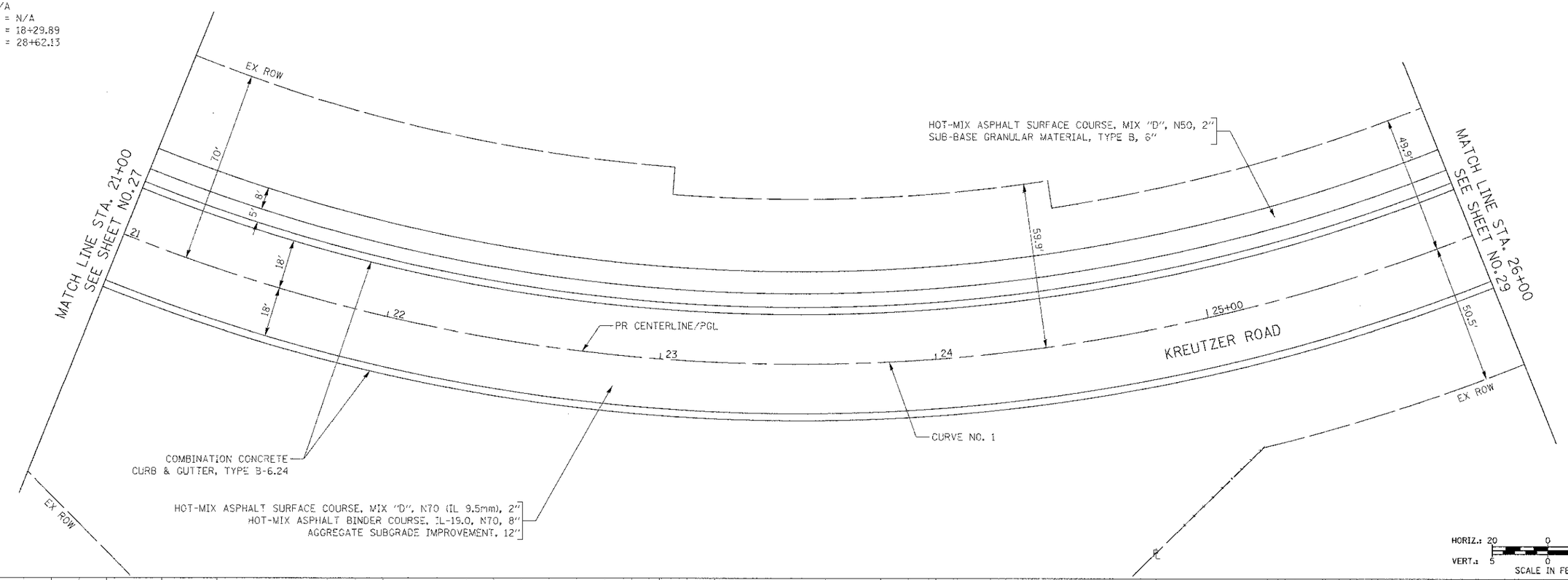
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -		
	PLOT DATE = 10/16/2012	DATE - 10/22/12	REVISED -		SCALE: 1" = 20' · SHEET NO. 2 OF 11 SHEETS · STA. 15+50 TO STA. 21+00

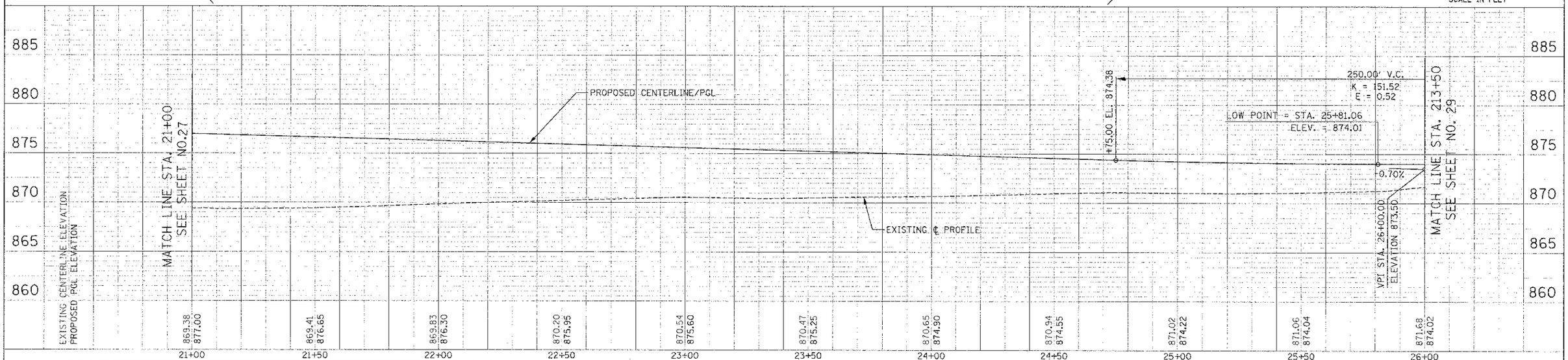
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	27
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

PROP. CURVE NO. 1
PI STA. = 24+88.26
Δ = 90° 17' 41" (LT)
D = 8° 44' 51"
R = 655.00'
T = 658.38'
L = 1,032.24'
E = 273.70'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 18+29.89
P.T. STA = 28+62.13

PLAN
SURVEYED
PLOTTED
FIELD BOOK
NOTE BOOK
NO.
DRAWN / RECORDED
CHECKED
REV. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
FIELD BOOK
NOTE BOOK
NO.
DRAWN / RECORDED
CHECKED
CAD FILE NAME
STRUCTURE NO.(IF APPL.)
BY
DATE





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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

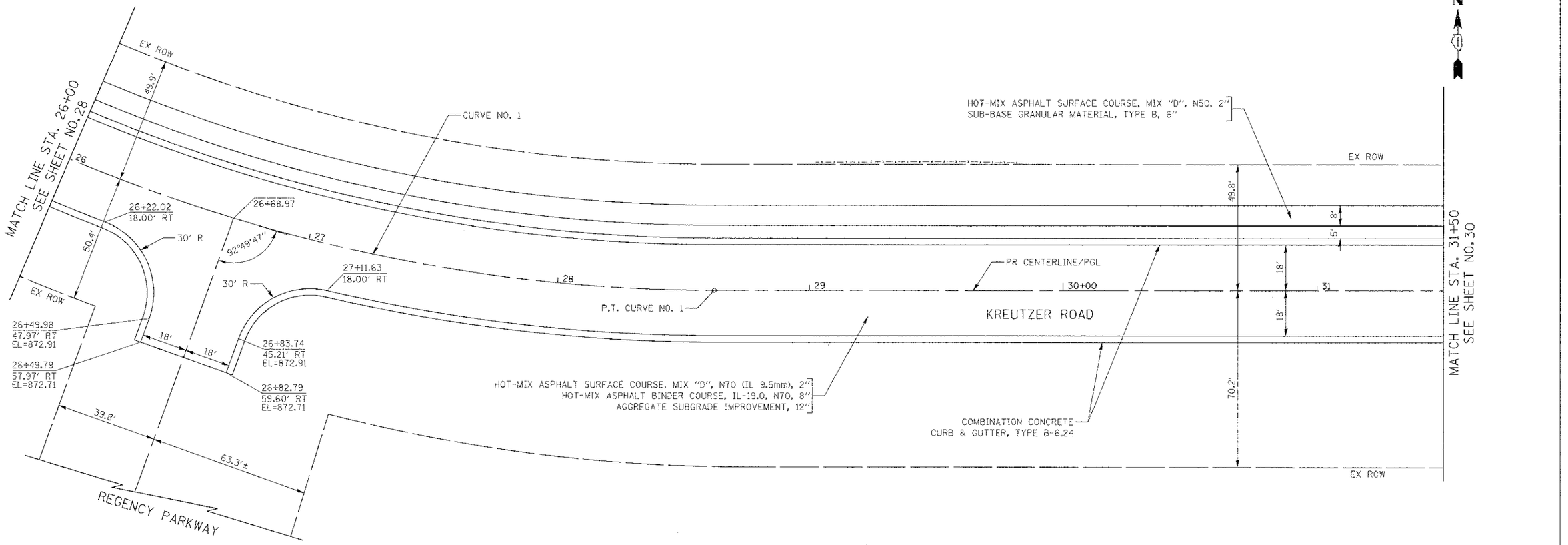
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 3 OF 11 SHEETS | STA. 21+00 TO STA. 26+00

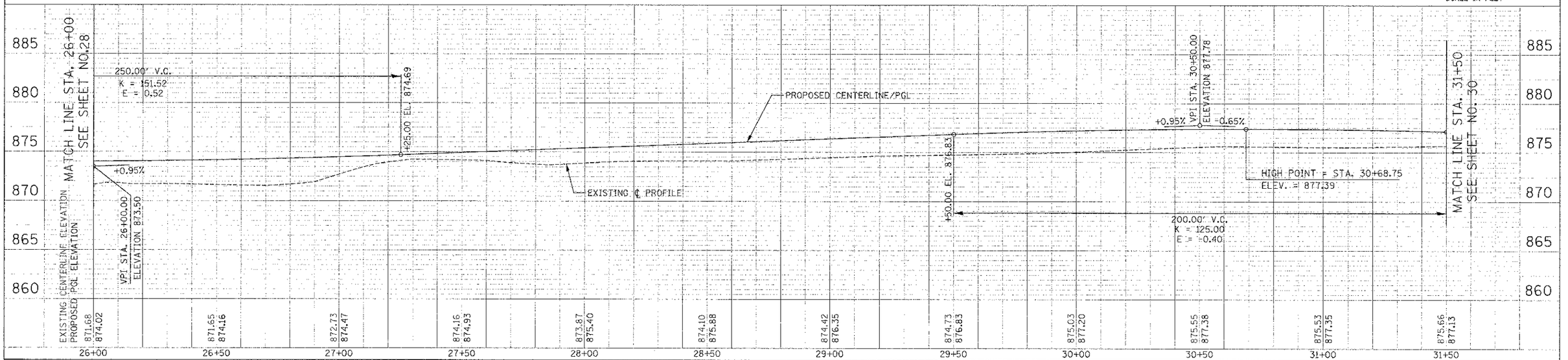
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	28
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

PLAN | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | NOTE BOOK | CADD FILE NAME | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | NOTE BOOK | STRUCTURE MOVEMENTS CHKD | NO. | BY | DATE



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



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	PLOT DATE = 10/19/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

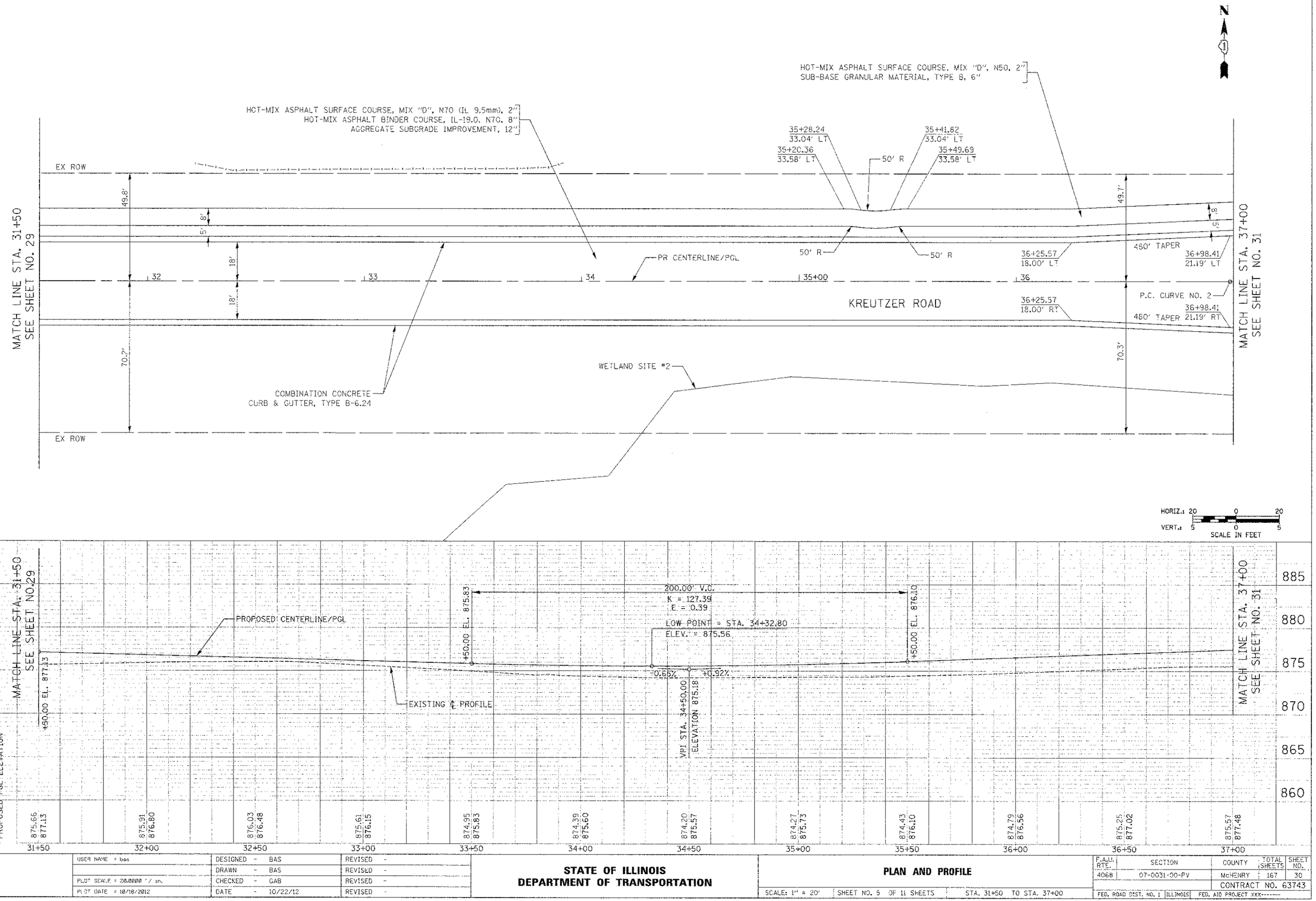
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 4 OF 11 SHEETS | STA. 26+00 TO STA. 31+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	29
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PLAN: SURVEYED | PLOTTED | DESIGN CHECKED | NOTE BOOK | BEAL NOTED | NO. | STRUCTURE NOTATIONS "STAGE" | BY | DATE

PROFILE: SURVEYED | PLOTTED | DESIGN CHECKED | NOTE BOOK | BEAL NOTED | NO. | STRUCTURE NOTATIONS "STAGE" | BY | DATE



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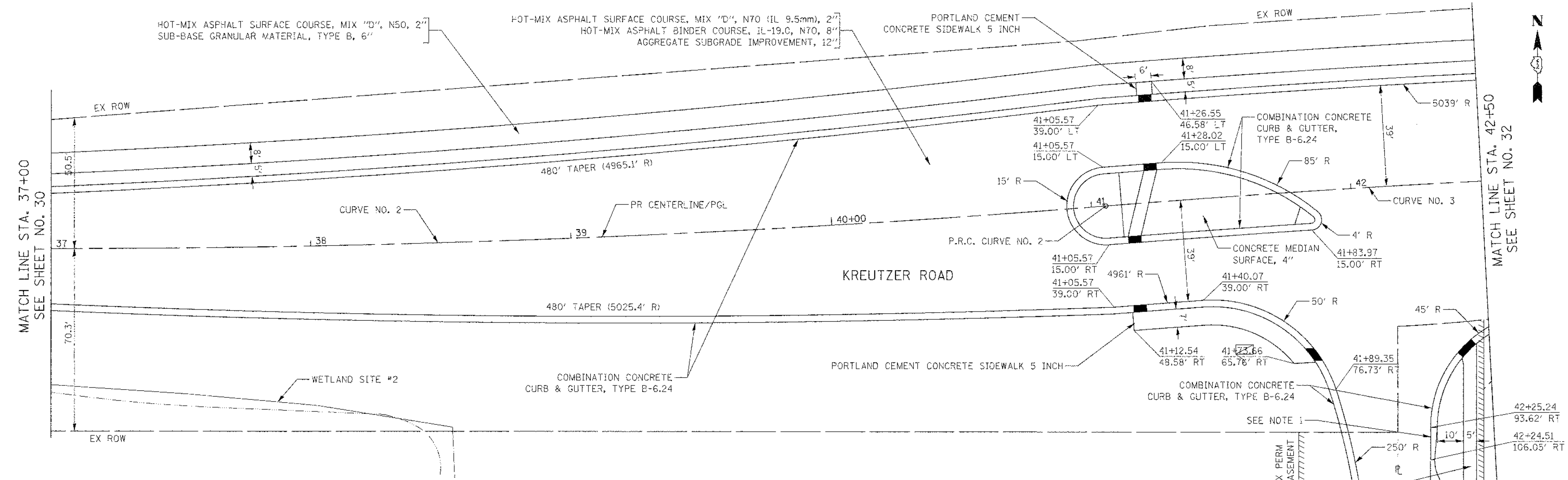
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

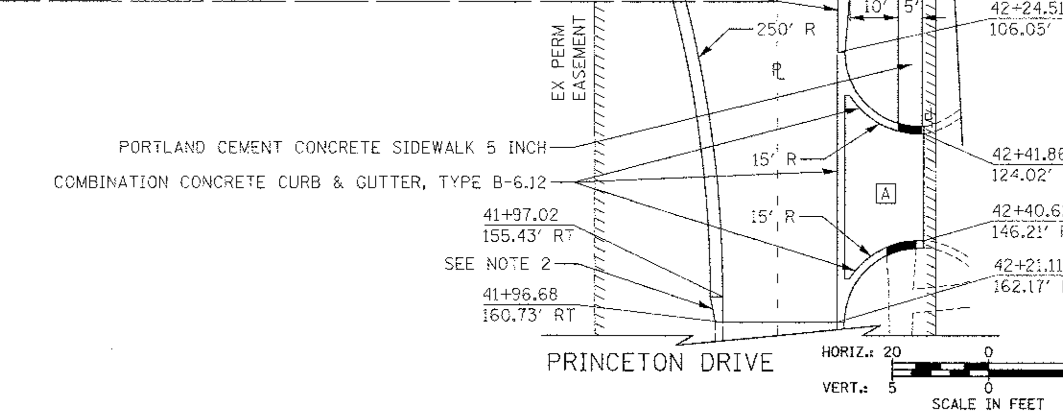
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 5 OF 11 SHEETS | STA. 31+50 TO STA. 37+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-90-PV	McHENRY	167	30
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		





PROP. CURVE NO. 2
PI STA. = 39+02.11
Δ = 4° 39' 57" (LT)
D = 1° 08' 45"
R = 5,000.00'
T = 203.69'
L = 407.16'
E = 4.15'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 36+98.41
P.T. STA = 41+05.57

PROP. CURVE NO. 3
PI STA. = 43+22.78
Δ = 4° 58' 29" (RT)
D = 1° 08' 45"
R = 5,000.00'
T = 217.20'
L = 434.14'
E = 4.72'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 41+05.57
P.T. STA = 45+39.71

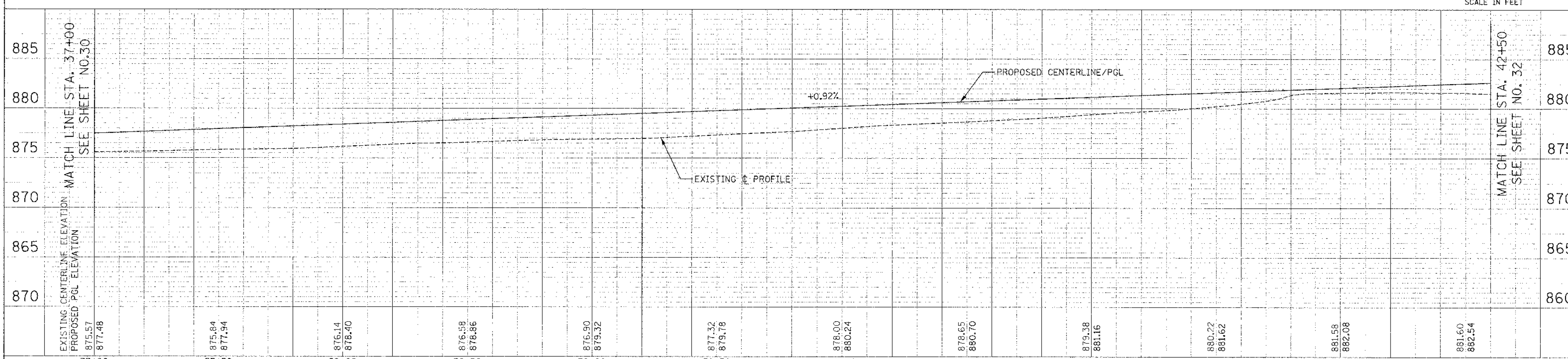
NOTES:

1. TRANSITION FROM B-6.24 TO B-6.12 OVER 12.5'. PAID FOR AS "COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24".
2. TRANSITION FROM B-6.24 TO B-6.12 OVER 5.3'. PAID FOR AS "COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24".

LEGEND

[A] COMMERCIAL PCC DRIVEWAY
-PCC DRIVEWAY PAVEMENT, 8"
-SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

INDICATES CURB RAMP, STANDARD 424001, 424011, OR 424031



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

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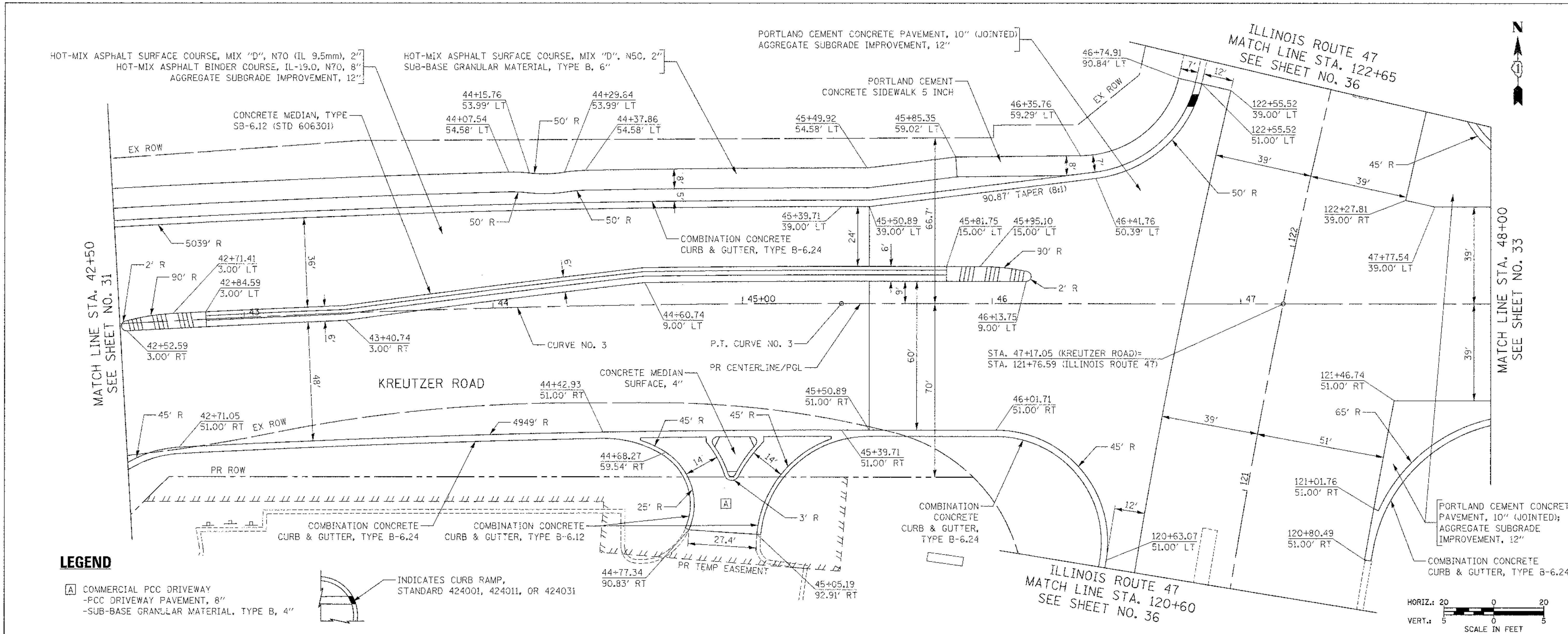
	PLOT DATE = 10/16/2012	DATE - 10/22/12	REVISED -

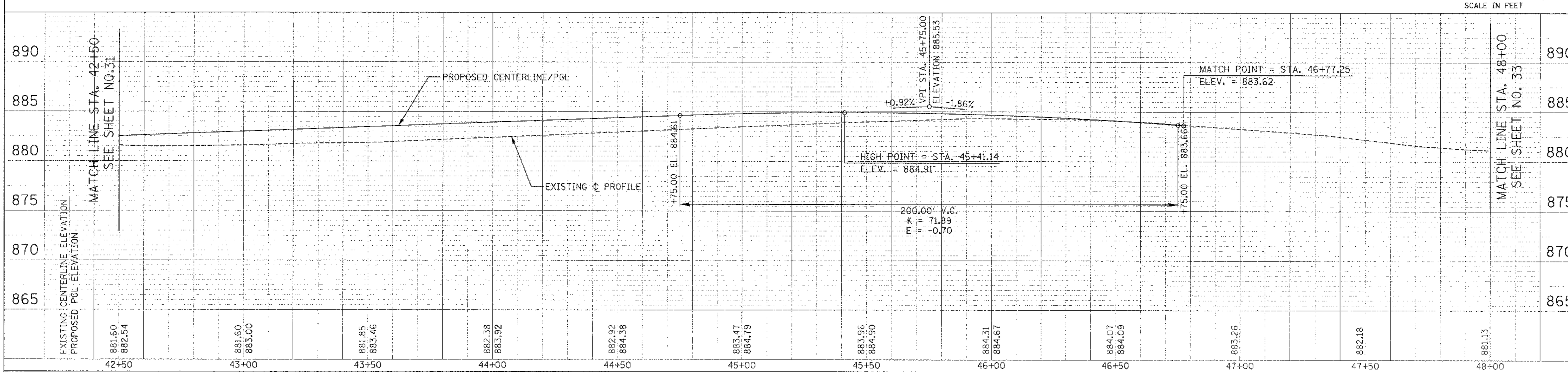
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 6 OF 11 SHEETS | STA. 37+00 TO STA. 42+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	31
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		





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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

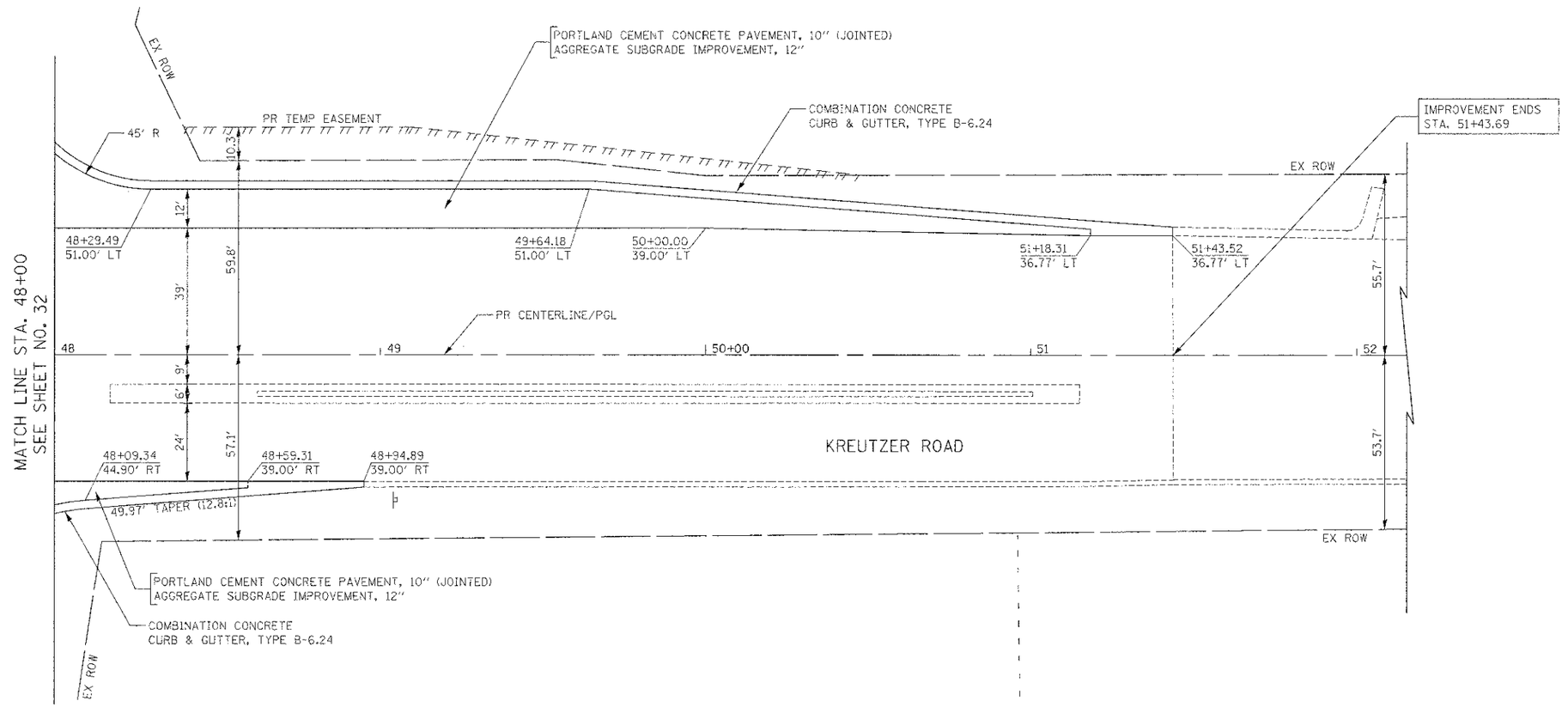
SCALE: 1" = 20' | SHEET NO. 7 OF 11 SHEETS | STA. 42+50 TO STA. 48+00

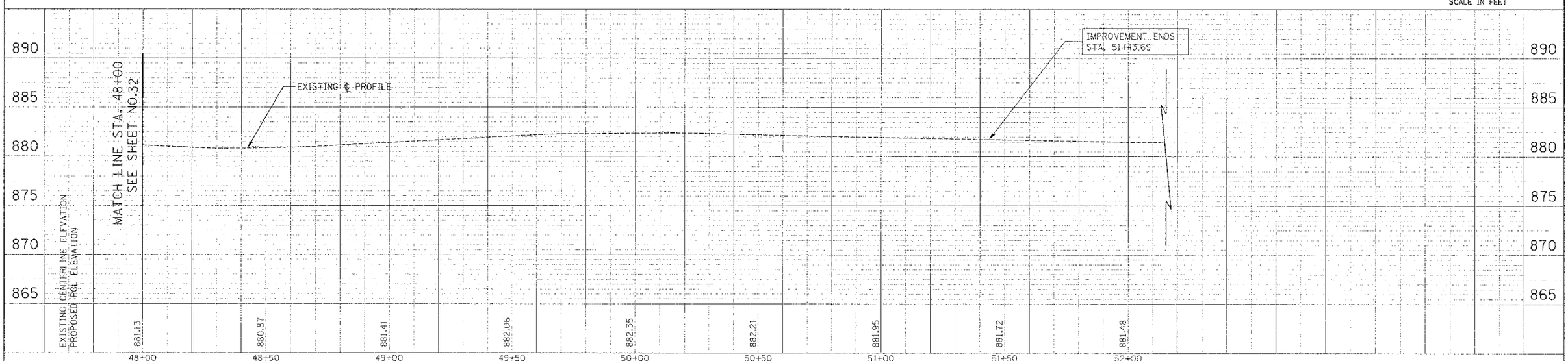
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	32
		CONTRACT NO. 63743		

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

PLAN: NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CARD FILE NAME — BY — DATE

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





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

PROFILE
SURVEYED — BY — DATE
PLOTTED — BY — DATE
QUANTITIES CHECKED — BY — DATE
ELEV. NOTED — BY — DATE
NOTE BOOK — STRUCTURE NO.&PTS SYMBD
NO. —

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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

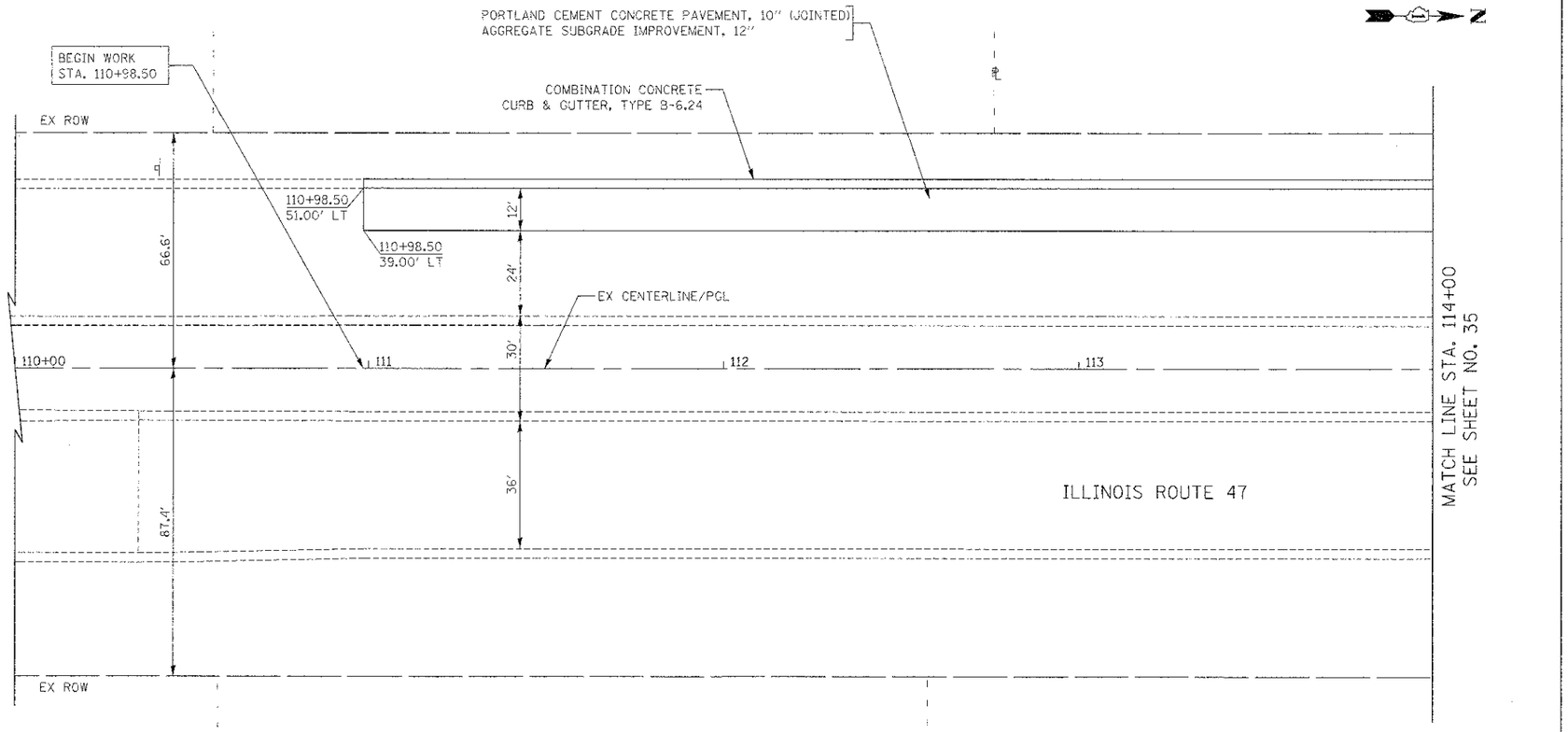
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 8 OF 11 SHEETS | STA. 48+00 TO STA. 51+44

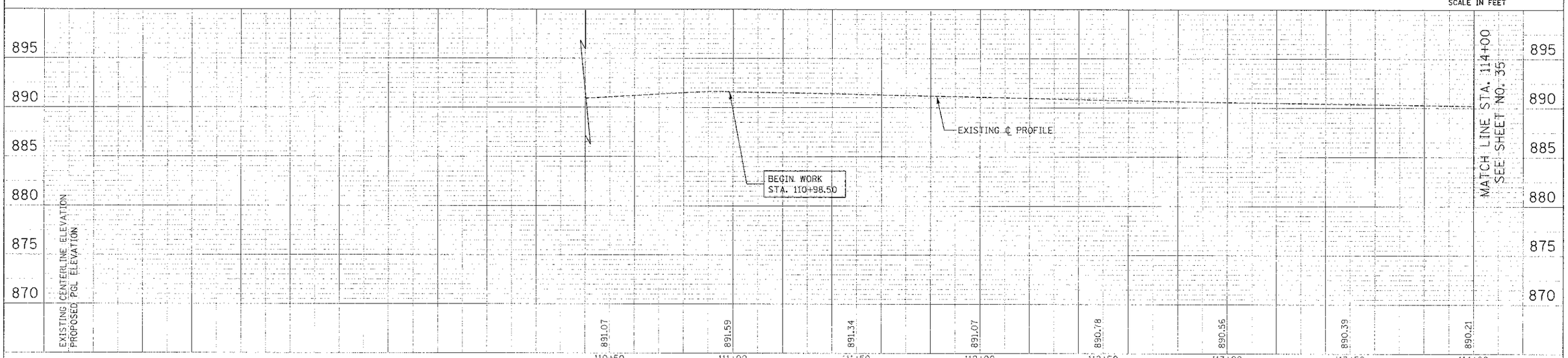
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	33
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

PLAN
SURVEYED
P. OTTO
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
BY
DATE



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



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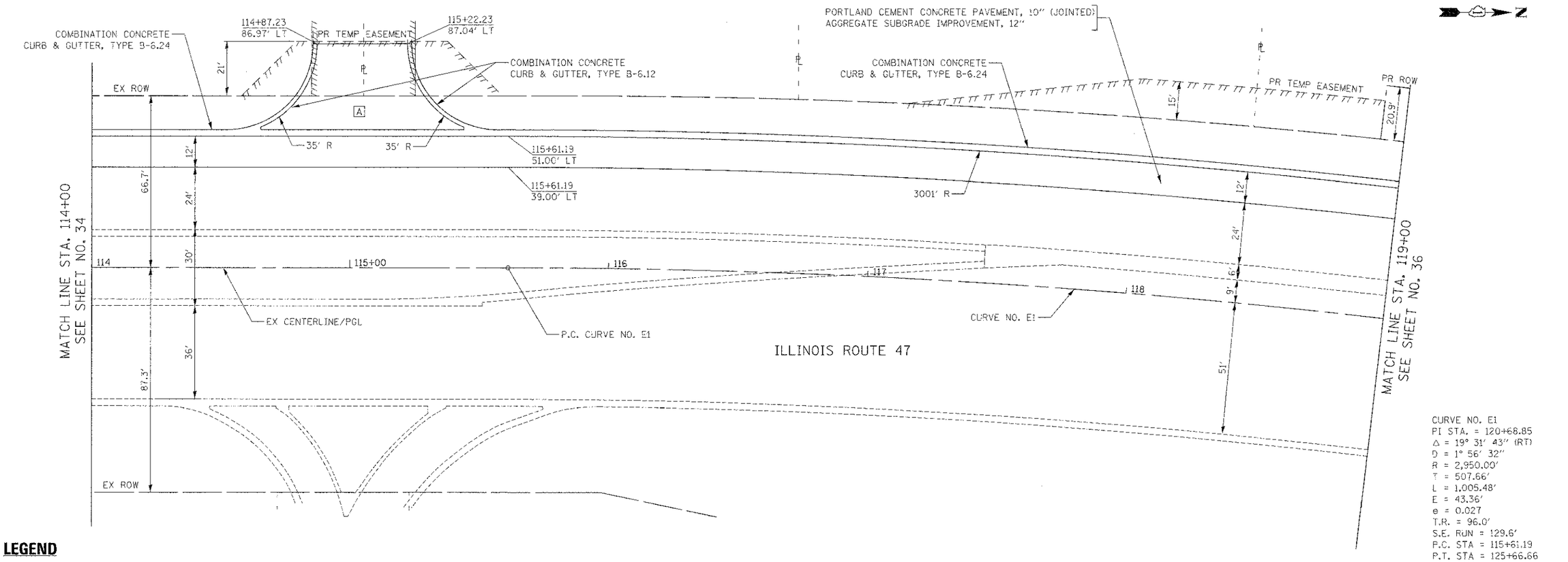
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 9 OF 11 SHEETS | STA. 110+98 TO STA. 114+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	34
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT xxx------		

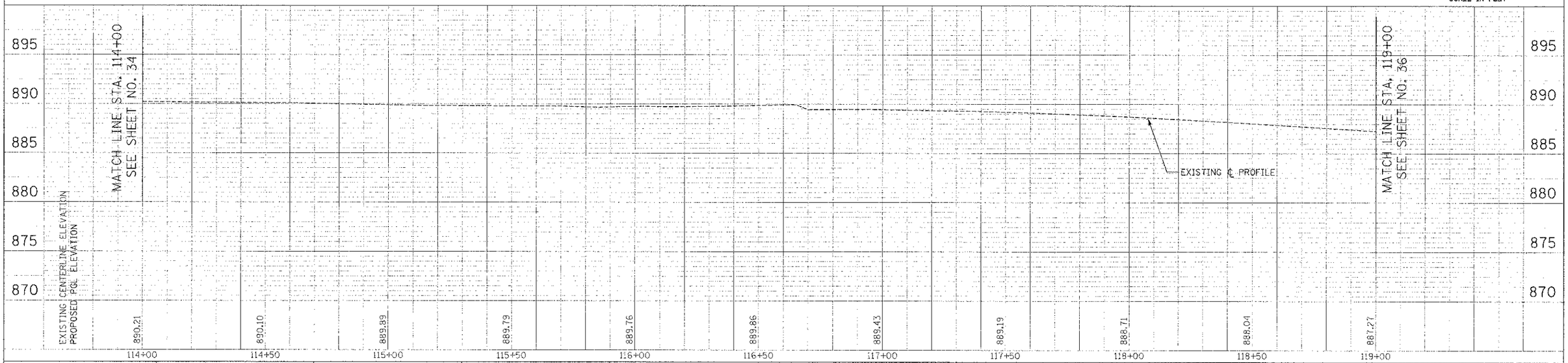


LEGEND

A COMMERCIAL PCC DRIVEWAY
-PCC DRIVEWAY PAVEMENT, 8"
-SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

CURVE NO. E1
PI STA. = 120+68.85
Δ = 19° 31' 43" (RT)
D = 1° 56' 32"
R = 2,950.00'
T = 507.66'
L = 1,005.48'
E = 43.36'
e = 0.027
T.R. = 96.0'
S.E. RUN = 129.6'
P.C. STA = 115+61.19
P.T. STA = 125+66.66

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



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	PLOT DATE = 12/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 10 OF 11 SHEETS | STA. 114+00 TO STA. 119+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	35
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

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

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24

PR ROW

PR TEMP EASEMENT

20.8'

15'

EX ROW

12'

69.2'

2.4'

6'

6'

51'

114.3'

EX ROW

MATCH LINE STA. 119+00
SEE SHEET NO. 35

119

120+00

CURVE NO. E1

ILLINOIS ROUTE 47

MATCH LINE STA. 120+60
SEE SHEET NO. 32

KREUTZER ROAD

STA. 47+17.05 (KREUTZER ROAD)=
STA. 121+76.59 (ILLINOIS ROUTE 47)

KREUTZER ROAD

MATCH LINE STA. 122+65
SEE SHEET NO. 32

EX ROW

78.5'

EX CENTERLINE/PGL

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24

123

45' R

39'

122+87.63
44.43' RT

250' R

123+02.71
39.00' RT

123+02.71
41.85' RT

82.1'

123+02.71
51.53' RT

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

122+72.22
62.46' RT

EX ROW

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

LEGEND

INDICATES CURB RAMP, STANDARD 424001, 424011, OR 424031

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

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

MATCH LINE STA. 119+00
SEE SHEET NO. 35

895
890
885
880
875
870

887.27 886.49 885.70 884.84 884.09 883.39 882.42 881.64 880.74 880.02 879.67

EXISTING ℄ PROFILE

119+00 119+50 120+00 120+50 121+00 121+50 122+00 122+50 123+00 123+50 124+00

FILE NAME = ...\2473_P&P_11.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
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	PLOT DATE = 10/19/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

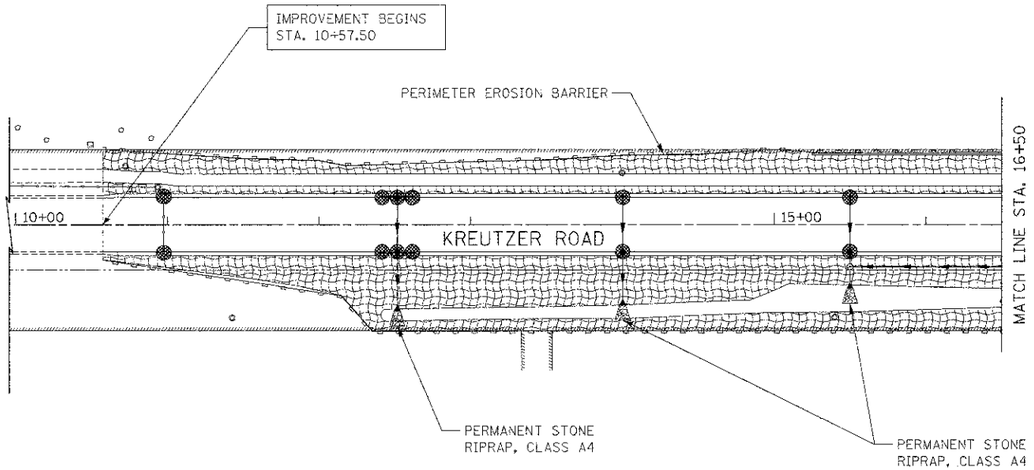
PLAN AND PROFILE

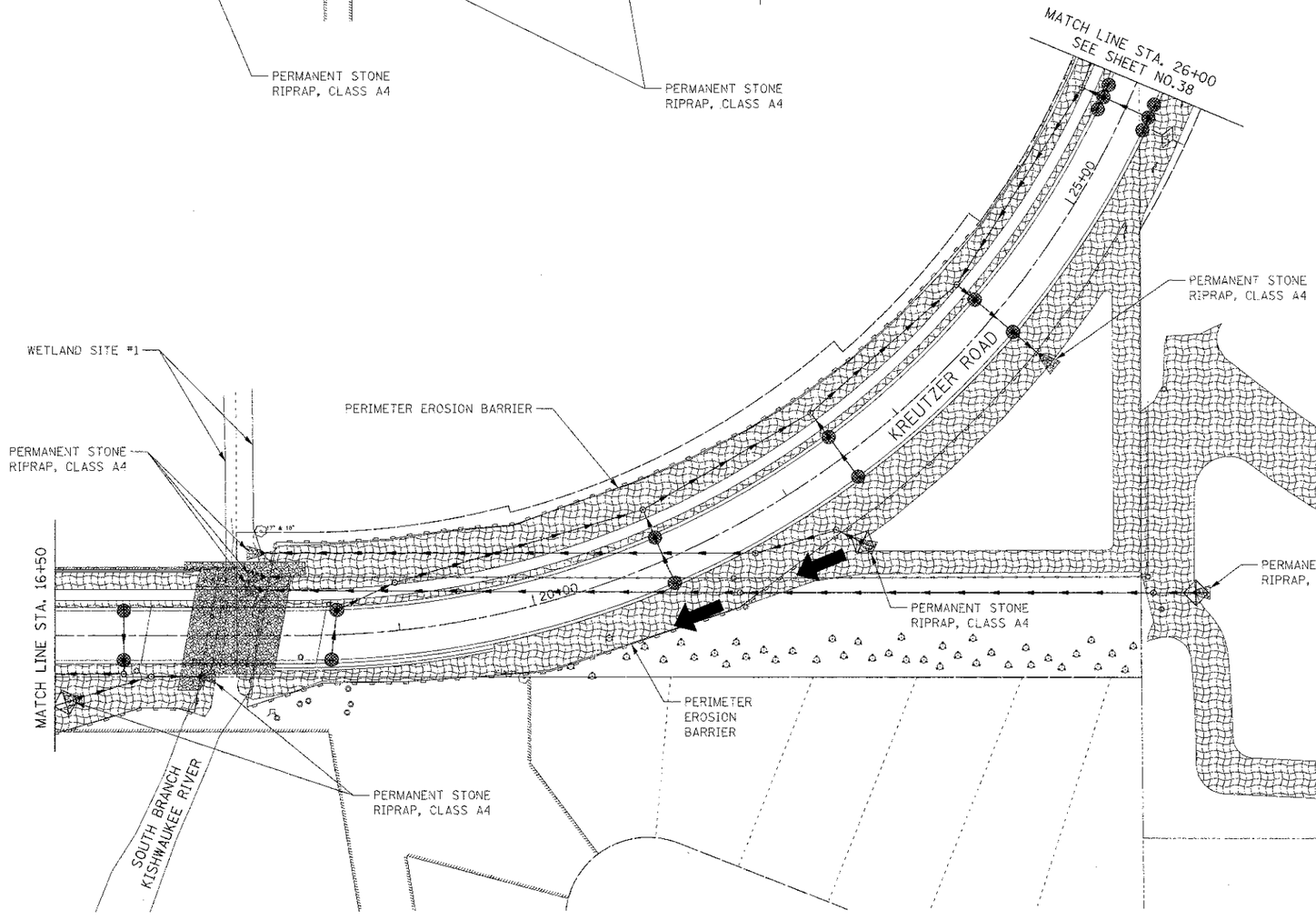
SCALE: 1" = 20' | SHEET NO. 11 OF 11 SHEETS | STA. 119+00 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	36
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

PLAN | SURVEYED | BY | DATE
PLOTTED | DRAWN BY | CHECKED | QUANTITIES CHECKED | STRUCTURE NO(FAP NO. 6240) | CADD FILE NAME
NOTE BOOK
NO.

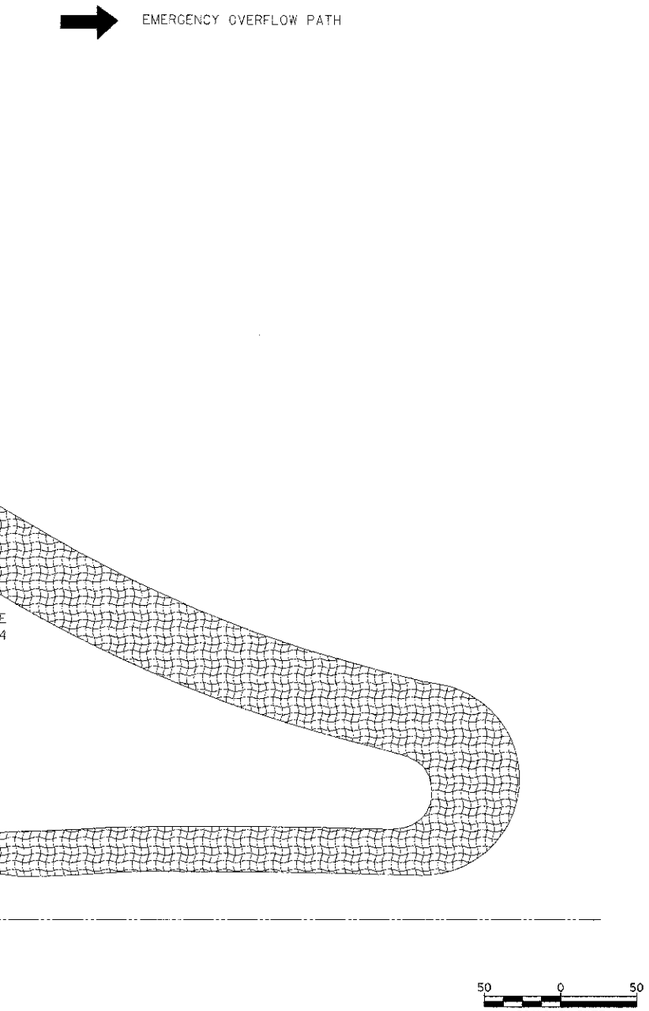
PROFILE | SURVEYED | PLOTTED | DRAWN BY | CHECKED | QUANTITIES CHECKED | STRUCTURE NO(FAP NO. 6240) | BY | DATE
NOTE BOOK
NO.





LEGEND

- EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING
- INLET FILTER AND PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE IN ACCORDANCE WITH 280001-05
- INLET FILTERS
- TEMPORARY DITCH CHECKS
- EMERGENCY OVERFLOW PATH



50 0 50
SCALE IN FEET

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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

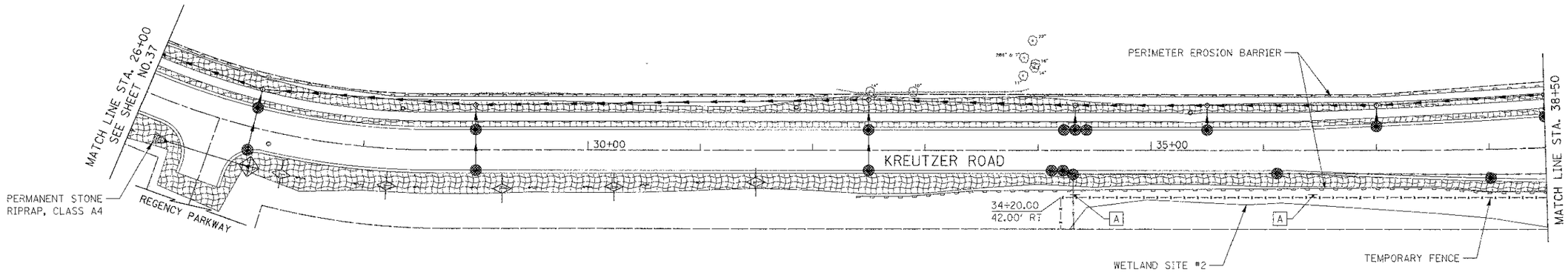
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. 10+57 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	37
		CONTRACT NO. 63743		

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



LEGEND

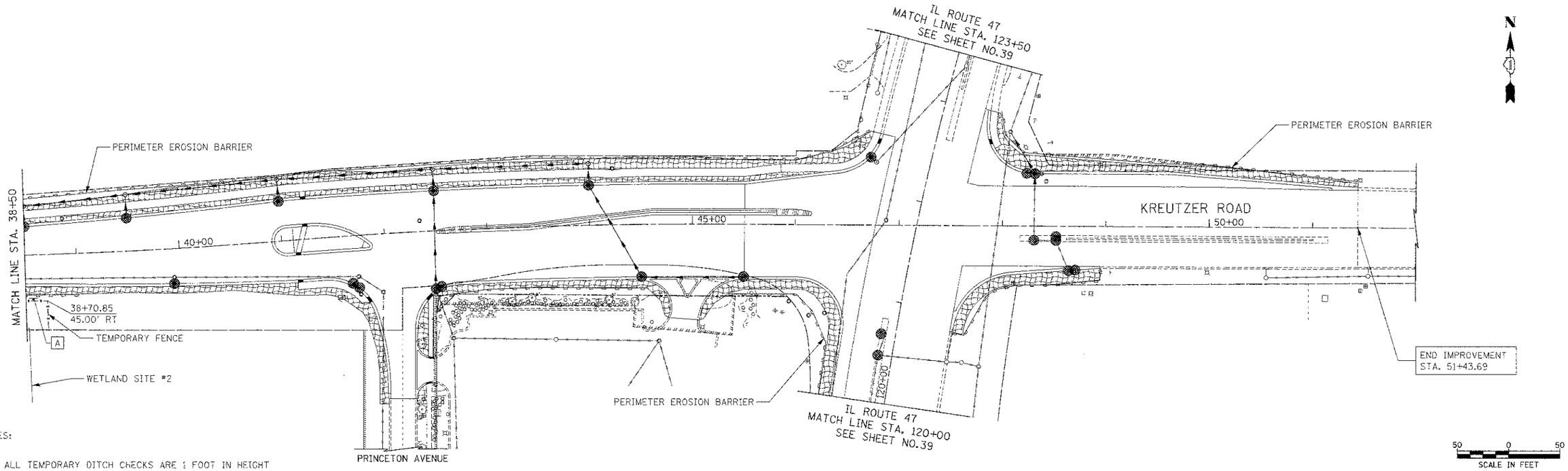
EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING

A WETLANDS NO INTRUSION — SPECIAL, 6' X 3' TO BE PAID FOR AS "SIGN PANEL - TYPE 2" AND "METAL POST - TYPE A" (2 POSTS PER SIGN)

INLET FILTER AND PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS



NOTES:

1. ALL TEMPORARY DITCH CHECKS ARE 1 FOOT IN HEIGHT UNLESS OTHERWISE NOTED.

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		DRAWN - BAS	REVISED -
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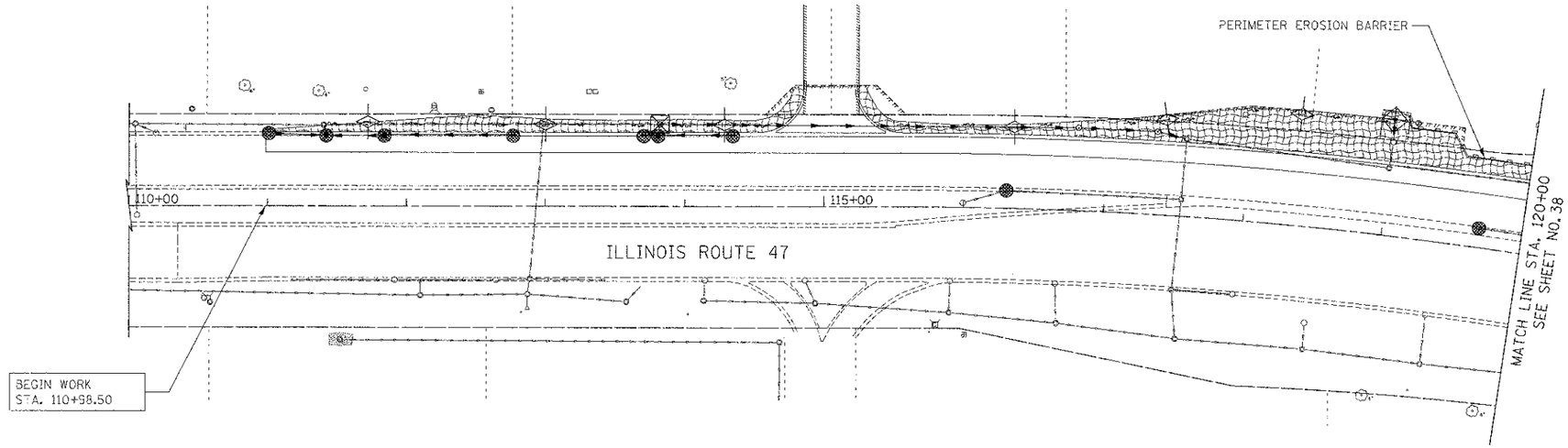
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

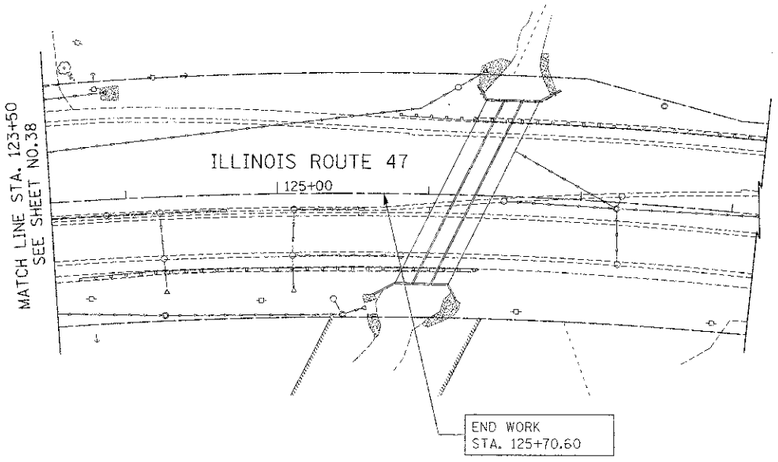
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. 26+00 TO STA. 51+44

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	38
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		





LEGEND

EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING

INLET FILTER AND PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE IN ACCORDANCE WITH 280001-05

INLET FILTERS

TEMPORARY DITCH CHECKS

NOTES:

1. ALL TEMPORARY DITCH CHECKS ARE 1 FOOT IN HEIGHT UNLESS OTHERWISE NOTED.

50 0 50
SCALE IN FEET

FILE NAME = ...\2473_ERO_03.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. 110+98 STA. 125+71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	39
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

A1 STA. 10+98, 18.5' RT
INLETS ADJ NEW T24F&G
EX RIM = 873.87
PR RIM = 874.04
INV = 871.10 EX (E)

A2 STA. 10+98, 18.8' LT
CB ADJ NEW T24F&G
EX RIM = 873.98
PR RIM = 874.04
INV = 870.90 EX (W)
INV = 870.90 EX (NE)

A3 STA. 10+94, 24.9' LT
MAN ADJUST
EX RIM = 874.84
PR RIM = 874.55
INV = 870.90 (SW)
INV = 870.90 (N)

101 STA. 12+42, 18.0' LT
INLETS TA T24F&G
RIM = 873.39
INV = 869.95 (S)

101A STA. 12+62, 18.0' LT
INLETS TA T24F&G
RIM = 873.39
INV = 869.95 (N)

102 STA. 12+52, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 873.39
INV = 869.88 (N)
INV = 869.88 (S)
INV = 869.88 (W)

103 STA. 12+42, 18.0' RT
INLETS TA T24F&G
RIM = 873.39
INV = 871.49 (PO E)
INV = 869.63 (S)

103A STA. 12+42, 18.0' RT
INLETS TA T24F&G
RIM = 873.39
INV = 869.63 (N)

104 STA. 12+52, 18.0' RT
CB TA 4 DIA T24F&G
RIM = 873.39
INV = 869.56 (N)
INV = 869.56 (S)
INV = 869.56 (E)
INV = 869.56 (W)

105 STA. 12+52, 57.0' RT
PRC FLAR END SEC 15
INV = 869.25

106 STA. 14+00, 18.0' LT
INLETS TA T24F&G
RIM = 874.12
INV = 870.30 (W)

107 STA. 14+00, 18.0' RT
CB TA 4 DIA T24F&G
RIM = 874.12
INV = 869.97 (E)
INV = 869.97 (W)

108 STA. 14+00, 53.0' RT
PRC FLAR END SEC 12
INV = 869.70

109 STA. 15+50, 18.0' LT
INLETS TA T24F&G
RIM = 875.09
INV = 870.33 (W)

110 STA. 15+50, 18.0' RT
CB TA 4 DIA T24F&G
RIM = 875.09
INV = 870.00 (E)
INV = 870.00 (W)

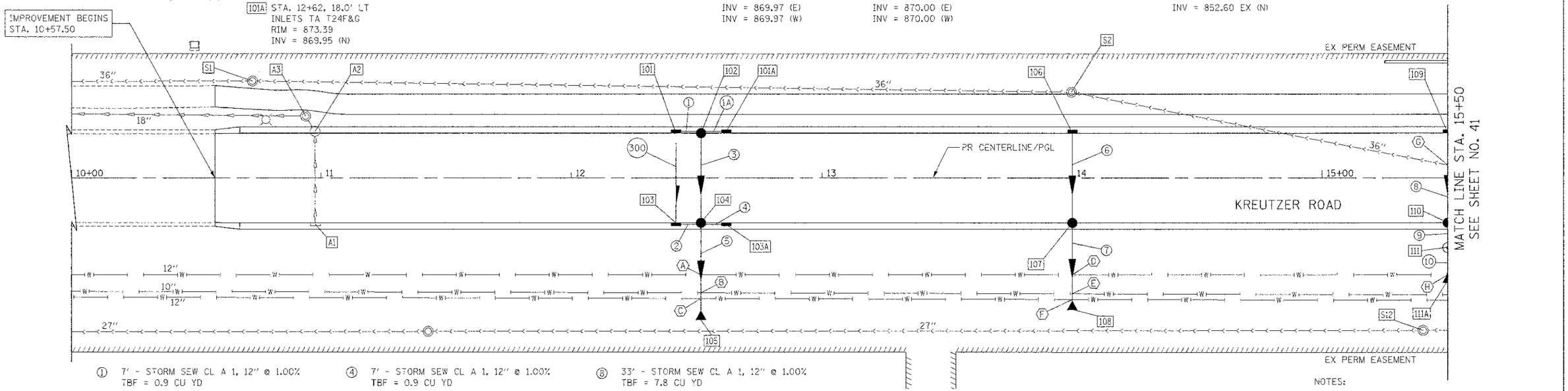
111 STA. 15+50, 28.0' RT
MAN TA 4 DIA TIF CL
RIM = 873.70
INV = 869.94 (E)
INV = 869.94 (S)
INV = 869.74 (W)

111A STA. 15+50, 40.0' RT
PRC FLAR END SEC 15
INV = 869.70

S1 STA. 10+73, 38.9' LT
SAN MAN ADJUST
EX RIM = 875.54
PR RIM = 875.10
INV = 852.10 EX (S)
INV = 851.90 EX (N)

S2 STA. 14+00, 34.4' LT
SAN MAN RECONST
EX RIM = 871.25
PR RIM = 874.75
INV = 852.70 EX (SW)
INV = 852.60 EX (N)

S12 STA. 15+40, 61.2' LT
SAN MAN ADJUST
EX RIM = 869.50
PR RIM = 870.50
INV = 852.60 EX (N)
INV = 852.70 EX (S)



① 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.9 CU YD

(1A) 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.9 CU YD

② 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.9 CU YD

③ 32' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 4.2 CU YD

④ 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.9 CU YD

⑤ 31' - STORM SEW WM REQ 15 @ 1.00%
TBF = 0.2 CU YD

⑥ 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 4.7 CU YD

⑦ 27' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.3 CU YD

⑧ 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 7.8 CU YD

⑨ 6' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 0.6 CU YD

⑩ 4' - STORM SEW CL A 1, 15" @ 1.00%
TBF = 0.0 CU YD

(300) 31' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 0.7 CU YD

Ⓐ BOTTOM STORM = 869.20
TOP WATER = 865.06

Ⓑ BOTTOM STORM = 869.13
TOP WATER = 864.98

Ⓒ BOTTOM STORM = 868.11
TOP WATER = 865.06

Ⓓ BOTTOM STORM = 869.62
TOP WATER = 864.45

Ⓔ BOTTOM STORM = 869.54
TOP WATER = 864.37

Ⓕ BOTTOM STORM = 869.54
TOP WATER = 864.45

Ⓖ BOTTOM STORM = 870.04
TOP SAN. = 855.94

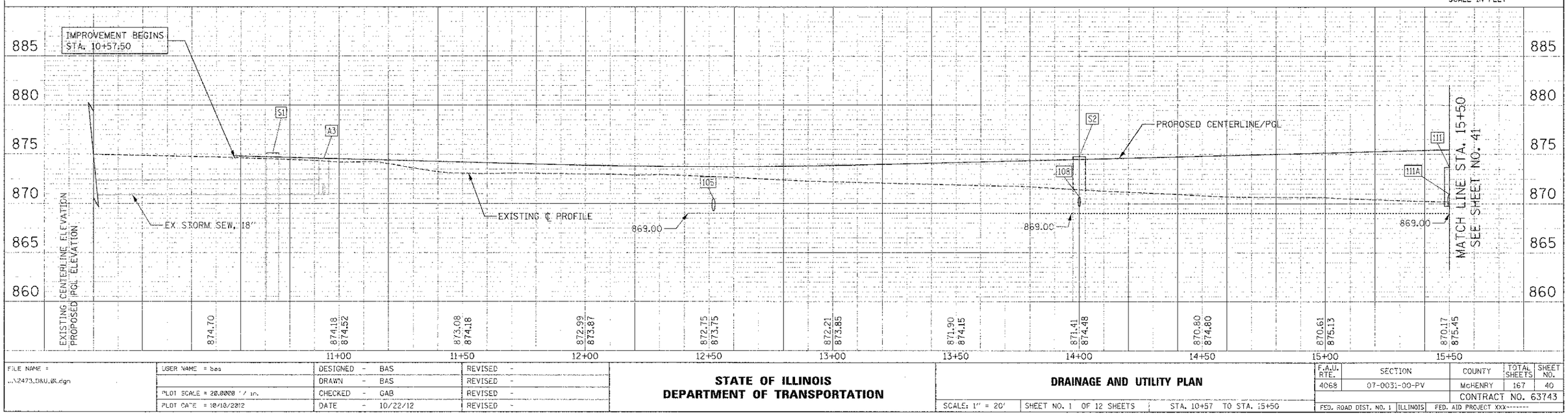
Ⓗ BOTTOM STORM = 869.54
TOP WATER = 863.90

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.

2. RIM ELEVATIONS FOR CURB STRUCTURES ARE AT THE EDGE OF PAVEMENT.

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 12 SHEETS | STA. 10+57 TO STA. 15+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	40
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

112 STA. 17+00, 18.0' LT
INLETS TA T24F&G
RIM = 876.07
INV = 871.99 (W)

113 STA. 17+00, 18.0' RT
CB TA 4 DIA T24F&G
RIM = 876.07
INV = 874.13 (PD NE)
INV = 871.66 (E)
INV = 871.66 (W)

114 STA. 17+00, 28.0' RT
MAN TA 4 DIA T1F CL
RIM = 874.68
INV = 871.60 (E)
INV = 871.40 (N)

114A STA. 16+67, 45.6' RT
PRC FLAR END SEC 18
GRATING-C FL END S 18
INV = 869.00

114B STA. 17+20, 30.0' RT
MAN TA 6D T1F CL R-P
RIM = 873.15
INV = 867.74 (NW)
INV = 867.74 (S)
5.4" ORIFICE

115 STA. 17+56, 30.0' RT
PRC FLAR END SEC 18
INV = 867.00

116 STA. 18+50, 18.0' RT
INLETS TA T24F&G
RIM = 877.04
INV = 872.91 (E)

117 STA. 18+55, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 877.07
INV = 872.58 (W)
INV = 872.58 (SE)

118 STA. 19+00, 35.0' LT
MAN TA 4 DIA T1F CL
RIM = 877.95
INV = 872.29 (NW)
INV = 871.38 (SE)

119 STA. 21+00, 18.0' RT
INLETS TA T24F&G
RIM = 876.64
INV = 872.16 (NE)

120 STA. 21+00, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 876.64
INV = 871.83 (SW)
INV = 871.83 (NE)

121 STA. 21+00, 40.0' LT
MAN TA 4 DIA T1F CL
RIM = 875.85
INV = 871.65 (SW)
INV = 870.18 (NW)
INV = 869.98 (SE)

121A STA. 17+99, 60.0' LT
PRC FLAR END SEC 24
INV = 863.38

121B STA. 18+00, 42.7' LT
MET END SEC 15
INV = 863.75

183 STA. 17+98, 32.8' LT
PRC FLAR END SEC 24
INV = 863.75

S3 STA. 17+09, 25.8' RT
SAN MAN RECONST
EX RIM = 867.65
PR RIM = 875.50
INV = 853.30 EX (SE)
INV = 853.20 EX (NE)

S4 STA. 18+50, 22.4' LT
SAN MAN RECONST
EX RIM = 870.12
PR RIM = 877.45
INV = 856.40 EX (S)
INV = 853.60 EX (NW)

(11) 146' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.0 CU YD

(12) 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 5.7 CU YD

(13) 6' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.4 CU YD

(14) 46' - STORM SEW WM REQ 18 @ 2.74%
TBF = 0.0 CU YD

(14A) 27' - STORM SEW WM REQ 18 @ 2.74%
TBF = 0.0 CU YD

(15) 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 5.5 CU YD

(16) 42' - STORM SEW CL A 2, 12" @ 0.69%
TBF = 13.0 CU YD

(17) 184' - STORM SEW CL A 2, 12" @ 0.65%
TBF = 0.9 CU YD

(18) 353' - STORM SEW CL A 2, 24" @ 0.26%
TBF = 113.4 CU YD

(19) 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 7.6 CU YD

(20) 18' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 4.2 CU YD

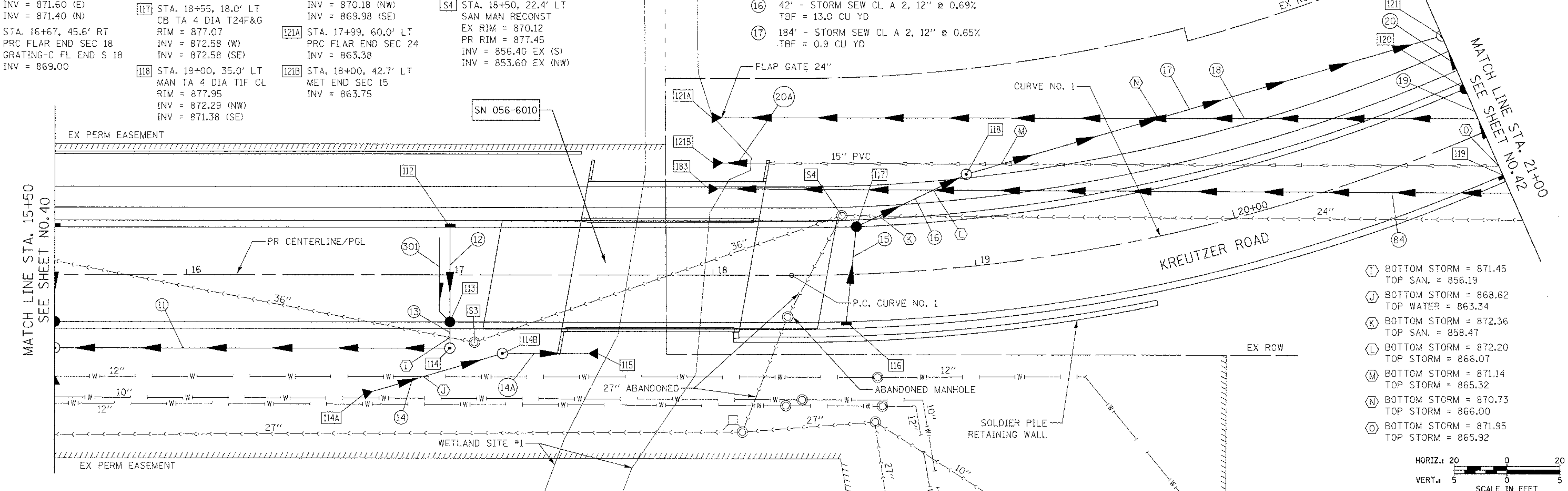
(20A) 12' - PIPE DRAINS, 15" @ 0.25%
TBF = 0.0 CU YD

(84) 341' - STORM SEW CL A 2, 24" @ 0.19%
TBF = 187.0 CU YD

(301) 32' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 0.7 CU YD

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB STRUCTURES ARE AT THE EDGE OF PAVEMENT.
3. SEE SHEET 114 FOR RESTRICTOR PLATE DETAILS.



(I) BOTTOM STORM = 871.45
TOP SAN. = 856.19

(J) BOTTOM STORM = 868.62
TOP WATER = 863.34

(K) BOTTOM STORM = 872.36
TOP SAN. = 858.47

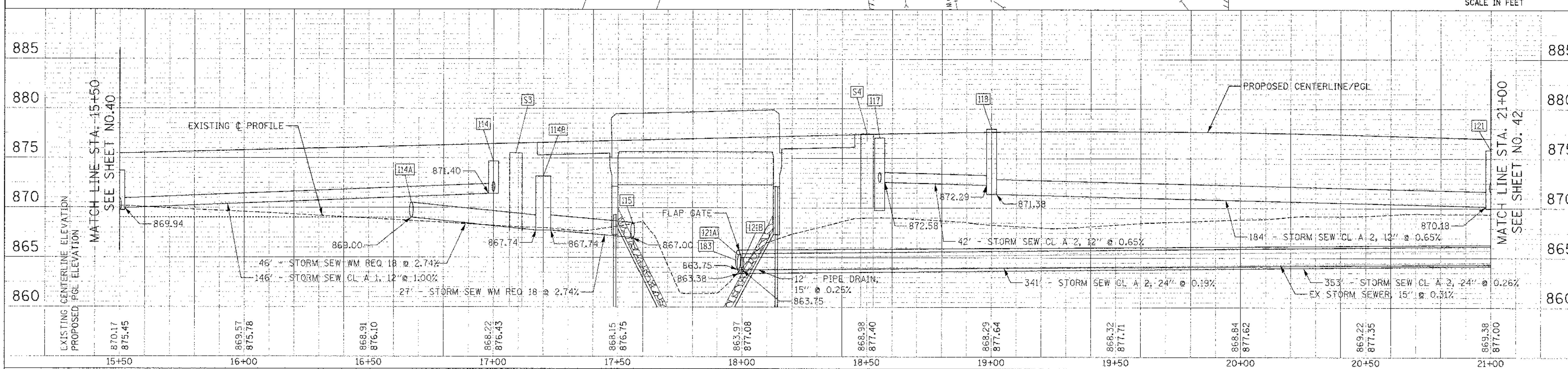
(L) BOTTOM STORM = 872.20
TOP STORM = 866.07

(M) BOTTOM STORM = 871.14
TOP STORM = 865.32

(N) BOTTOM STORM = 870.73
TOP STORM = 866.00

(O) BOTTOM STORM = 871.95
TOP STORM = 865.92

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



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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

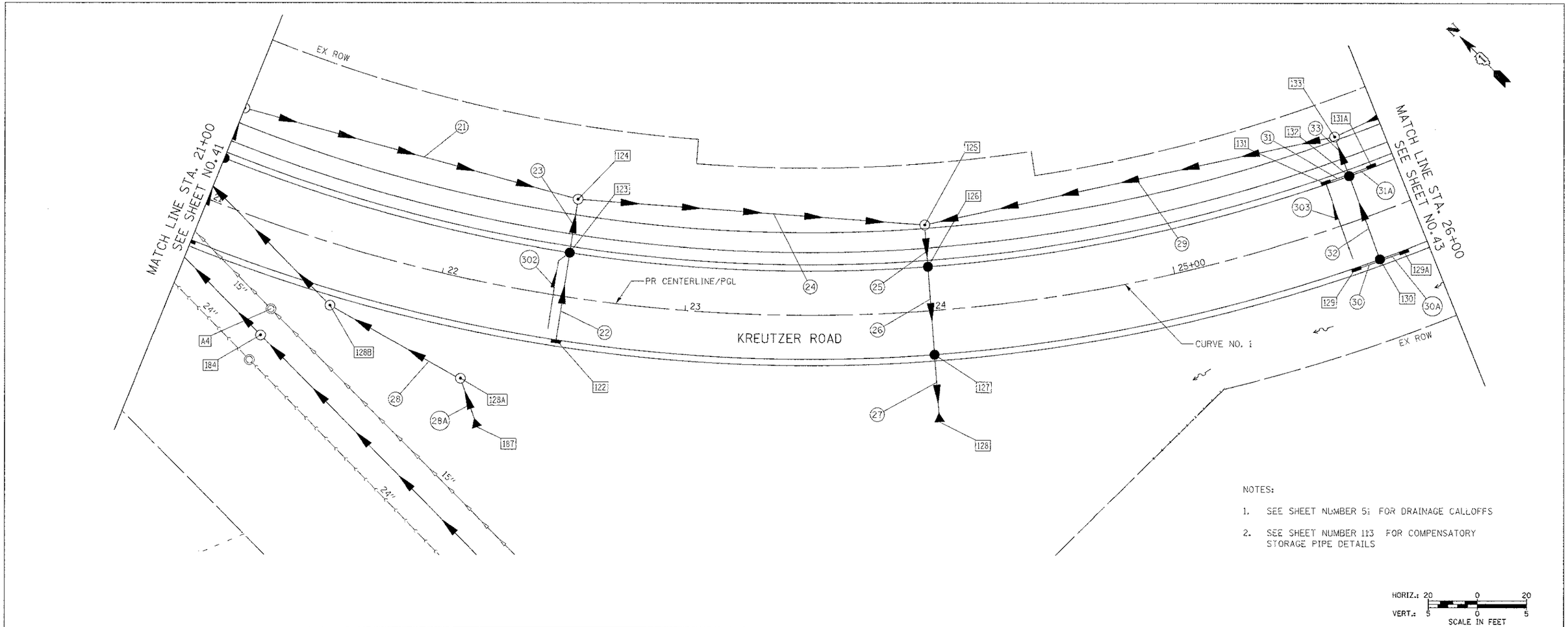
SCALE: 1" = 20' | SHEET NO. 2 OF 12 SHEETS | STA. 15+50 TO STA. 21+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	41
		CONTRACT NO. 63743		

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

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

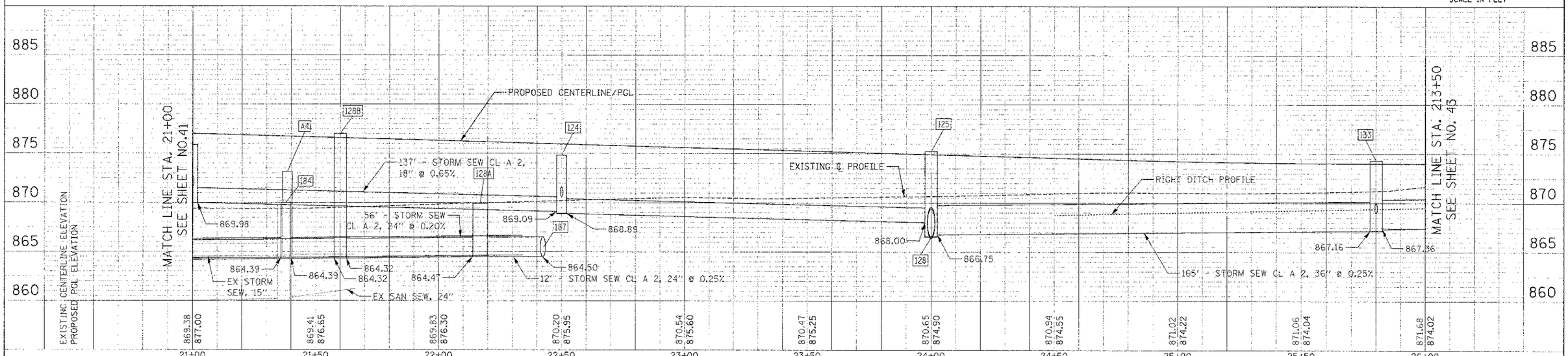
PROFILE | NOTE BOOK | NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHKD | BY | DATE



NOTES:

1. SEE SHEET NUMBER 5: FOR DRAINAGE CALLOFFS
2. SEE SHEET NUMBER 113 FOR COMPENSATORY STORAGE PIPE DETAILS

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



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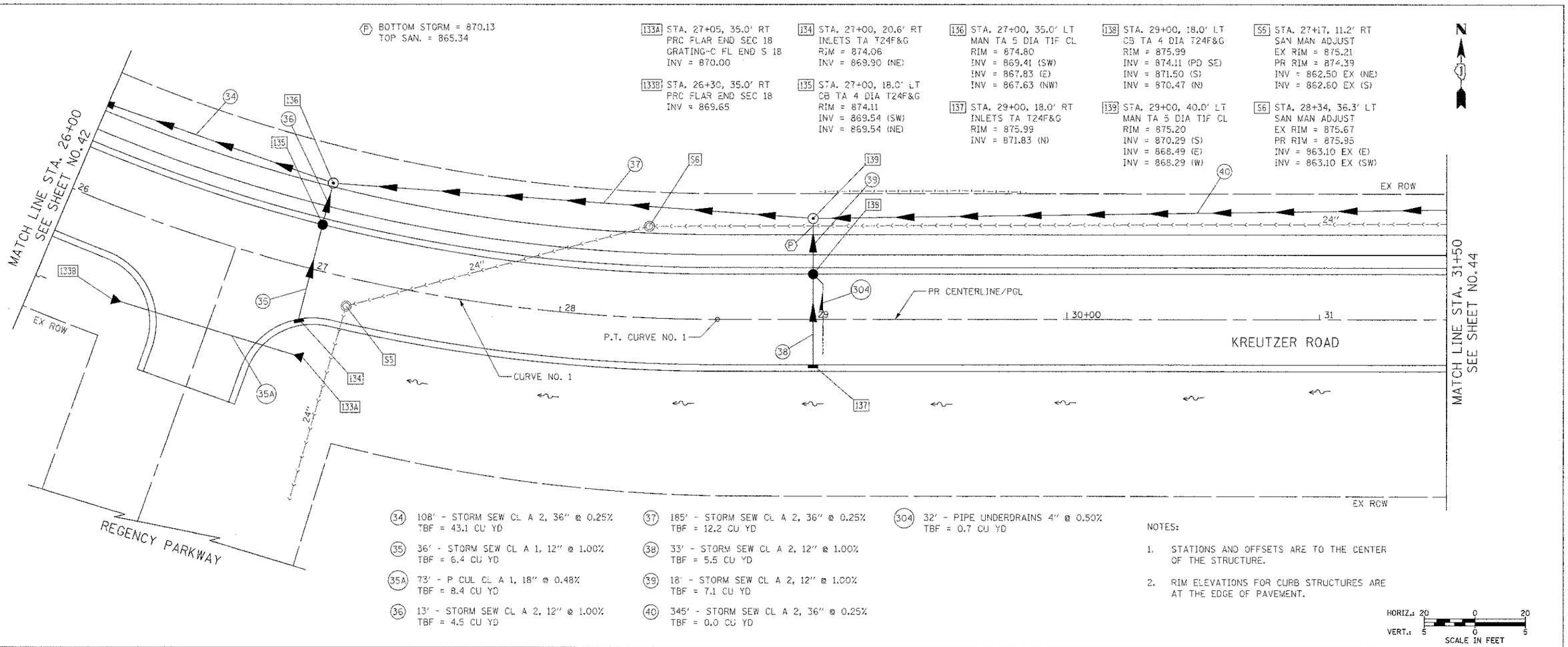
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

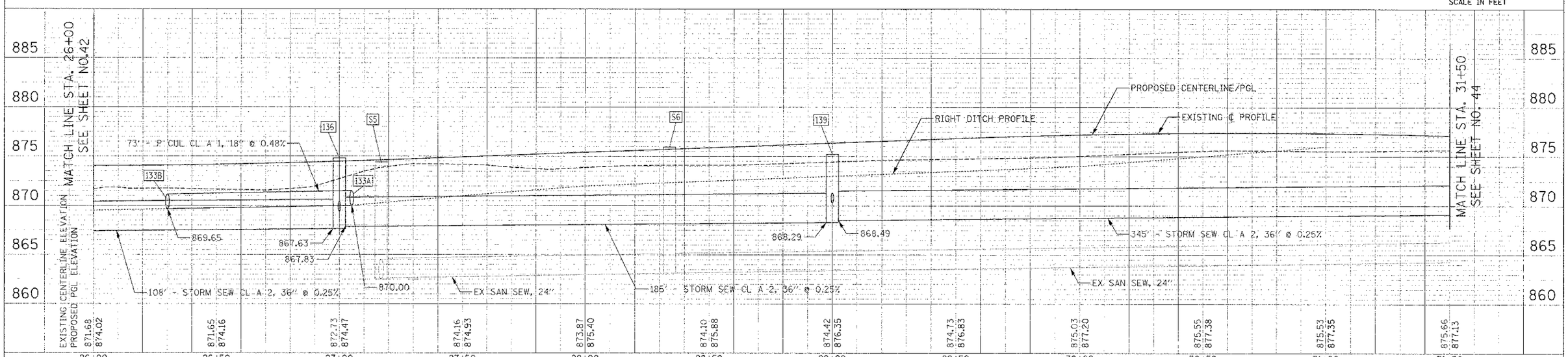
DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 3 OF 12 SHEETS | STA. 21+00 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	42
		CONTRACT NO. 63743		

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





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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 12 SHEETS | STA. 26+00 TO STA. 31+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	43
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PLAN | SURVEYED | BY | DATE
PLOTTED
NOTE BOOK | ALIGNMENT CHECKED
NO. | PLANS REVISED
STRUCTURE NO(S) | RAMP NAME

PROFILE | SURVEYED | BY | DATE
PLOTTED
NOTE BOOK | GRADES CHECKED
NO. | PLANS REVISED
STRUCTURE NO(S) | RAMP NAME

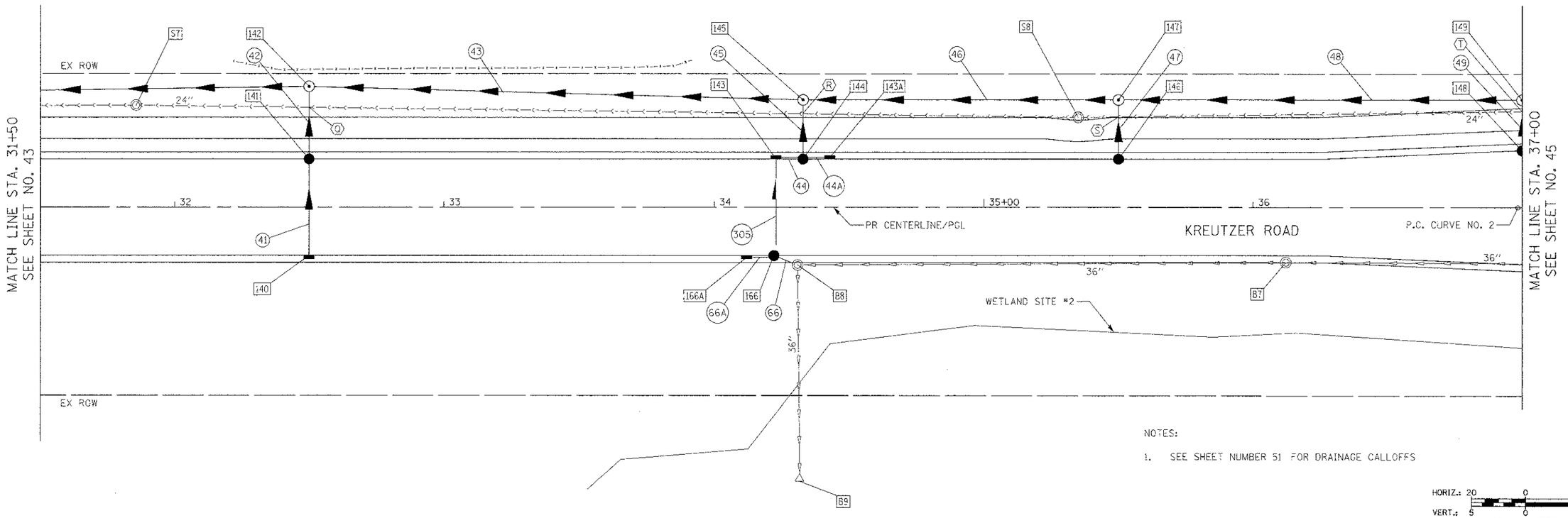
(S) BOTTOM STORM = 871.24
TOP SAN. = 866.94

(R) BOTTOM STORM = 870.68
TOP SAN. = 867.62

(S) BOTTOM STORM = 871.27
TOP SAN. = 868.07

(T) BOTTOM STORM = 872.59
TOP SAN. = 868.07

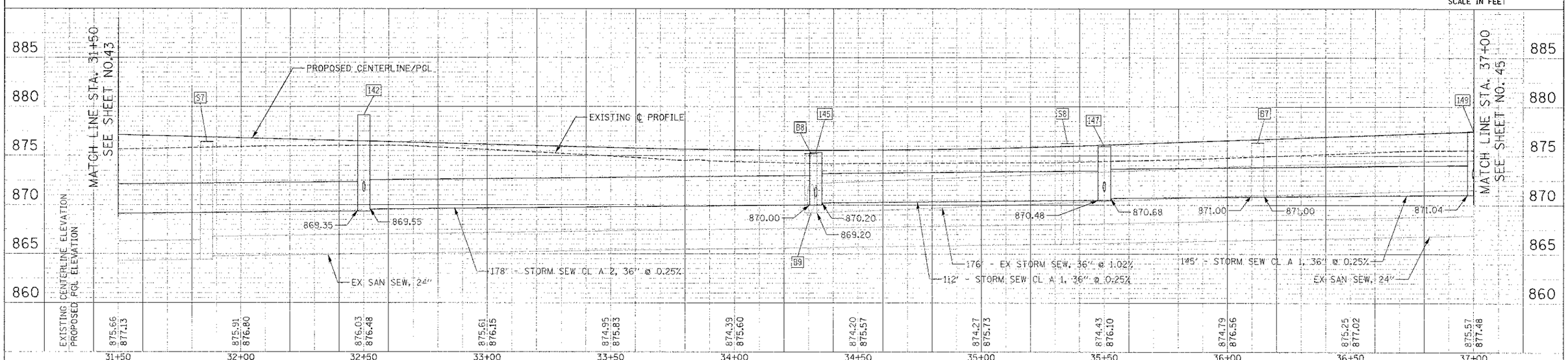
N



NOTES:

1. SEE SHEET NUMBER 51 FOR DRAINAGE CALLOFFS

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 5 OF 12 SHEETS | STA. 31+50 TO STA. 37+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	44
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX--------		

MATCH LINE STA. 37+00
SEE SHEET NO. 44

EX ROW

24"

KREUTZER ROAD

CURVE NO. 2

PR CENTERLINE/PGL

37 38 39 40+00 41 42

CURVE NO. 3

P.R.C. CURVE NO. 2

WATER MAIN 12", 20', SEE NOTE 3

MATCH LINE STA. 42+50
SEE SHEET NO. 46

36"

WETLAND SITE #2

EX ROW

DUCTILE IRON WATER MAIN TEE, 12" X 6"
WATER MAIN 6", 14'
SEE NOTE 2

EX PERM EASEMENT

PRINCETON DRIVE

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

N

(U) BOTTOM STORM = 873.53
TOP SAN. = 869.71

(V) BOTTOM STORM = 872.98
TOP SAN. = 872.01

(VV) BOTTOM STORM = 876.30
TOP WATER = 873.40

NOTES:

1. SEE SHEET NUMBER 51 FOR DRAINAGE CALLOFFS
2. FIRE HYDRANT AND VALVE TO BE MOVED, STA. 41+78, 39.4' RT TO STA. 41+76, 72.3' RT
3. LOWER EXISTING 12" WATER MAIN TO PROVIDE MIN. 18" CLEARANCE TO PROPOSED STORM SEWER USING 45 DEGREE BENDS

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

EXISTING ℄ PROFILE

PROPOSED CENTERLINE/PGL

885 880 875 870 865 860

871.24 872.20 872.20 871.60 871.80 872.04 872.24 874.00 874.10 872.60 872.80 876.00 876.30 876.00 876.50 873.17

182' - EX STORM SEW, 36" @ 0.66%
145' - STORM SEW CL A 1, 36" @ 0.25%
190' - EX STORM SEW, 36" @ 0.95%
95' - STORM SEW CL A 1, 36" @ 0.25%
EX SAN SEW, 24"
144' - STORM SEW CL A 1, 30" @ 0.25%
190' - EX STORM SEW, 36" @ 0.95%
148' - STORM SEW CL A 2, 30" @ 0.25%
EX 12" WATER MAIN
23' - EX STORM SEW, 36" @ 1.30%
DI WT MNF 12 45.0 DB
WATER MAIN 12", 2'
DI WT MNF 12 45.0 DB
WATER MAIN 12", 20'

37+00	37+50	38+00	38+50	39+00	39+50	40+00	40+50	41+00	41+50	42+00	42+50
875.57 / 877.48	875.84 / 877.94	876.14 / 878.40	876.58 / 878.86	876.90 / 879.32	877.32 / 879.78	878.00 / 880.24	878.65 / 880.70	879.38 / 881.16	880.22 / 881.62	881.58 / 882.08	881.60 / 882.54

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 6 OF 12 SHEETS | STA. 37+00 TO STA. 42+50

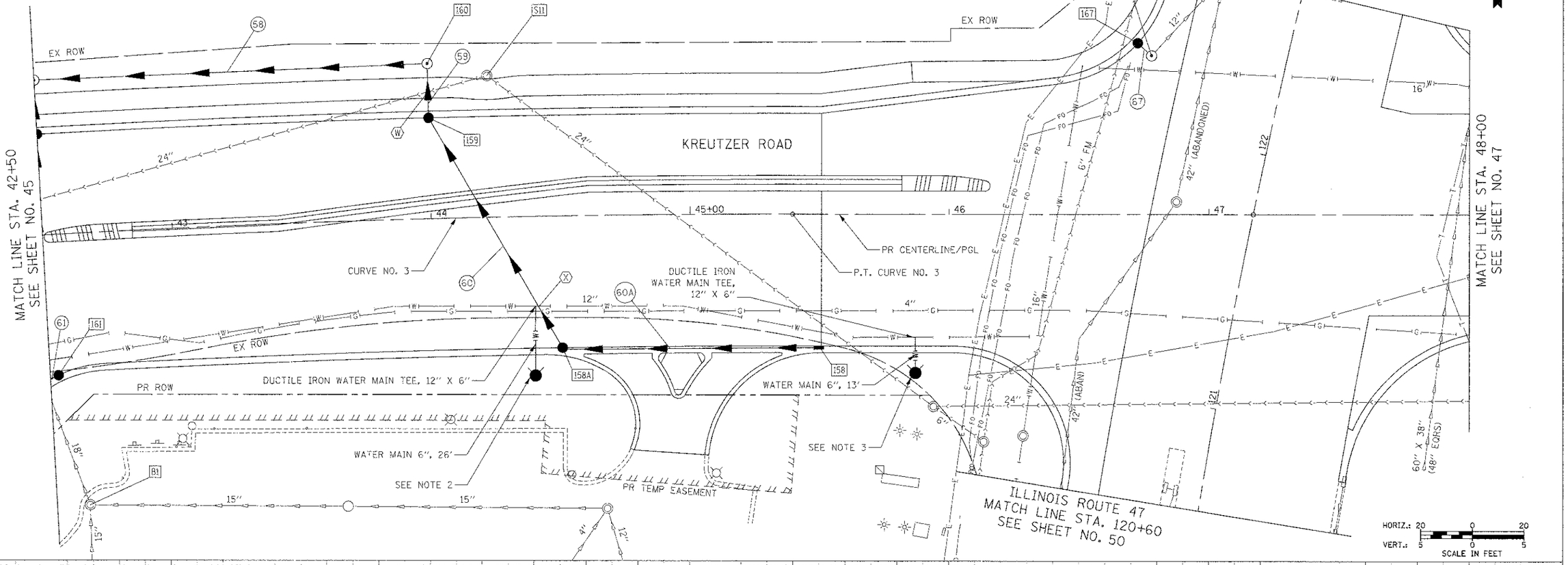
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	45
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX		

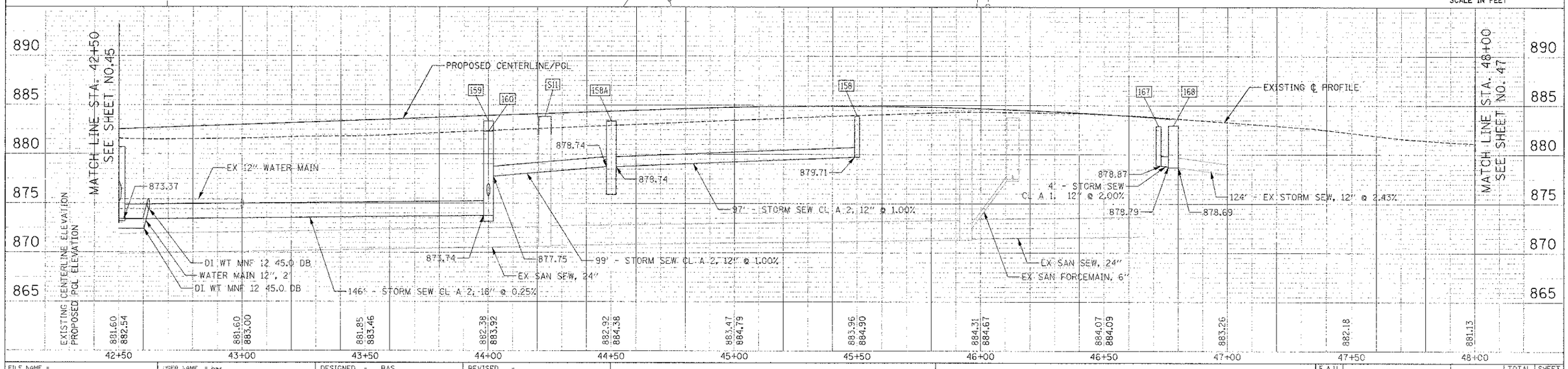
NOTES:

1. SEE SHEET NUMBER 51 FOR DRAINAGE CALLOFFS
2. FIRE HYDRANT AND VALVE TO BE MOVED, STA. 44+39, 30.4' RT TO STA. 44+39, 61.5' RT
3. FIRE HYDRANT AND VALVE TO BE MOVED, STA. 45+77, 44.0' RT TO STA. 45+87, 61.5' RT

(W) BOTTOM STORM = 875.66
TOP SAN. = 872.51

(X) BOTTOM STORM = 878.41
TOP WATER = 876.10





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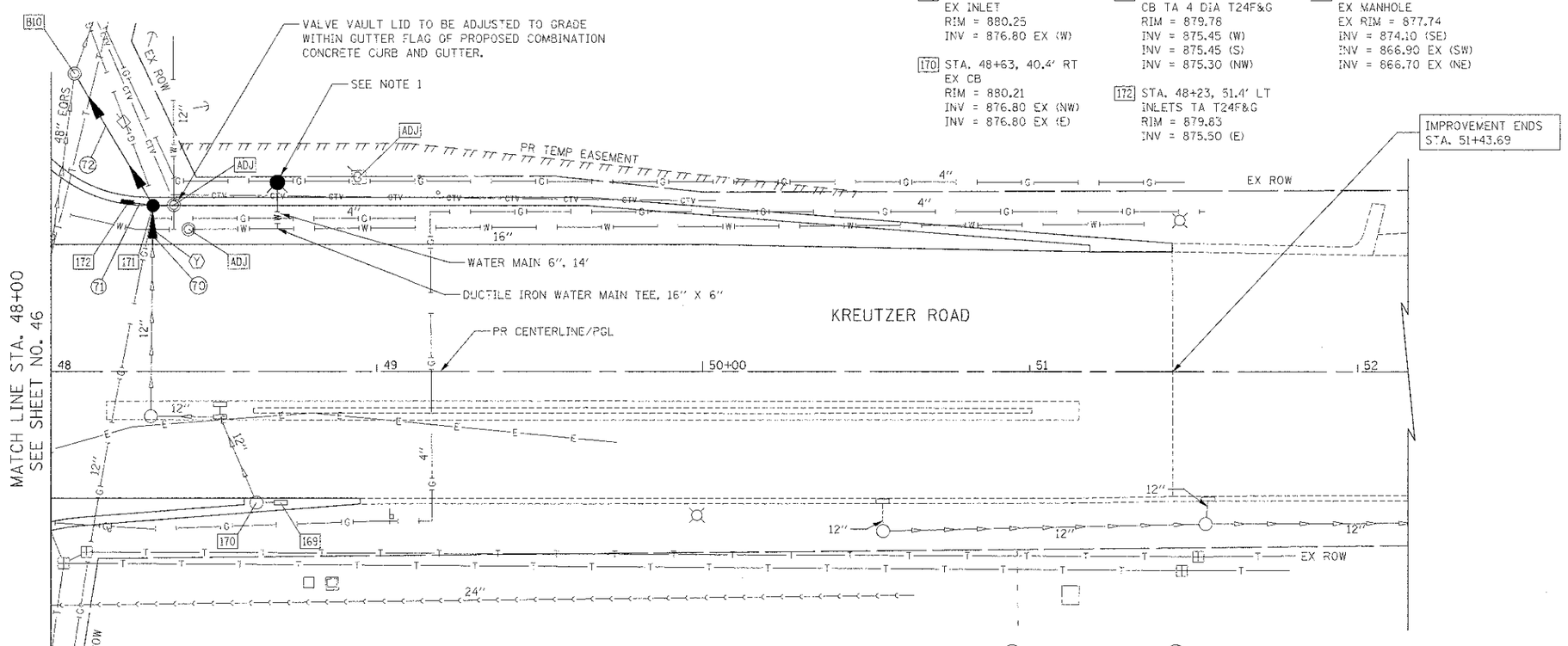
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 7 OF 12 SHEETS | STA. 42+50 TO STA. 48+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	46
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		



169 STA. 48+70, 40.4' RT
EX INLET
RIM = 880.25
INV = 876.80 EX (W)

170 STA. 48+63, 40.4' RT
EX CB
RIM = 880.21
INV = 876.80 EX (NW)
INV = 876.80 EX (E)

171 STA. 48+31, 51.0' LT
CB TA 4 DIA T24F&G
RIM = 879.78
INV = 875.45 (W)
INV = 875.45 (S)
INV = 875.30 (NW)

172 STA. 48+23, 51.4' LT
INLETS TA T24F&G
RIM = 879.83
INV = 875.50 (E)

B10 STA. 48+07, 91.7' LT
EX MANHOLE
EX RIM = 877.74
INV = 874.10 (SE)
INV = 866.90 EX (SW)
INV = 866.70 EX (NE)

N

Y BOTTOM STORM = 875.31
TOP WATER = 873.10

68 NOT USED

69 NOT USED

70 13' - STORM SEW WM REQ 12 @ 0.45%,
TBF = 2.2 CU YD,
TIE INTO EXISTING PIPE AT INV = 875.50

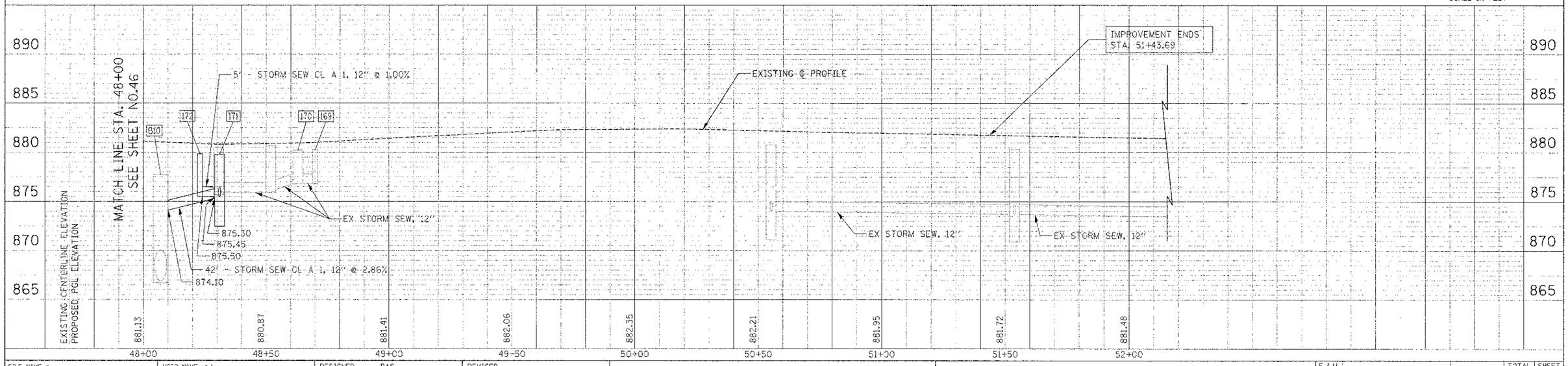
71 5' - STORM SEW WM REQ 12 @ 1.00%
TBF = 0.9 CU YD

72 42' - STORM SEW WM REQ 12 @ 2.86%
TBF = 0.6 CU YD

NOTES:

1. FIRE HYDRANT AND VALVE TO BE MOVED, STA. 48+70, 48.4' LT TO STA. 48+70, 58.1' LT

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 8 OF 12 SHEETS | STA. 48+00 TO STA. 51+44

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	47
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. !	ILLINOIS	FED. AID PROJECT XXX------		

PLAN
DRAWN/ PLOTTED / CHECKED / QUANTITIES CHECKED / STRUCTURE NOTATIONS CHKD
NOTE BOOK / SHEET NO. / CADD FILE NAME
BY / DATE

PROFILE
DRAWN/ PLOTTED / CHECKED / QUANTITIES CHECKED / STRUCTURE NOTATIONS CHKD
NOTE BOOK / SHEET NO.
BY / DATE

PLAN | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | ALL ITEMS CHECKED | CARD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | ALL ITEMS CHECKED | STRUCTURE NO.FAP49 12/KD | NOTE BOOK | NO. | BY | DATE

[173] STA. 111+42, 51.0' LT
CB TA 4 DIA T24F&G
RIM = 890.23
INV = 885.70 (S)
INV = 884.90 (N)
INV = 883.25 (W)

[174] STA. 111+84, 51.0' LT
CB TA 4 DIA T24F&G
RIM = 890.05
INV = 885.20 (N)
INV = 885.20 (S)

[175] STA. 112+78, 51.0' LT
INLETS TA T24F&G
RIM = 889.75
INV = 885.90 (S)

[176] STA. 113+71, 51.0' LT
INLETS TA T24F&G
RIM = 889.51
INV = 885.80 (N)

[177] STA. 113+81, 51.0' LT
CB TA 4 DIA T24F&G
RIM = 889.50
INV = 885.30 (N)
INV = 885.70 (S)
INV = 883.25 (W)

[178] STA. 113+82, 59.5' LT
MAN TA 6 DIA T8G
RIM = 888.75
INV = 883.20 (E)
INV = 877.60 EX (S)
INV = 877.40 (N)

[B11] STA. 111+01, 52.6' LT
EX INLET
RIM = 890.29
INV = 886.20 EX (N)

[B12] STA. 111+40, 58.7' LT
EX MANHOLE
RIM = 889.97
INV = 883.20 EX (E)
INV = 878.00 EX (S)
INV = 877.90 EX (N)

[B13] STA. 112+99, 59.7' LT
MAN ADJUST
EX RIM = 890.88
PR RIM = 889.50
INV = 883.50 EX (E)
INV = 878.00 EX (S)
INV = 877.90 EX (N)

(73) 38' - STORM SEW CL A 1, 12" @ 1.32%
TBF = 6.6 CU YD

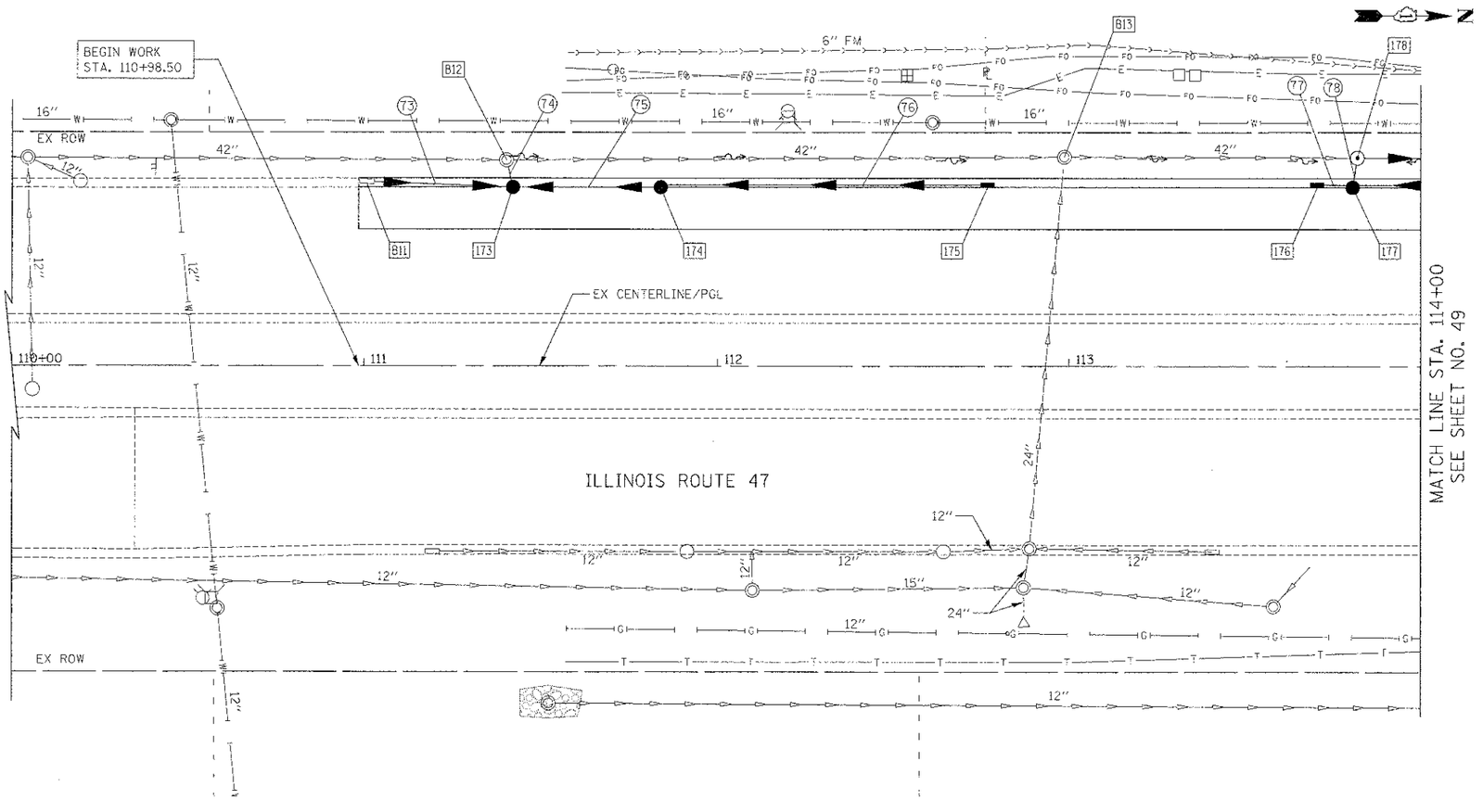
(74) 3' - STORM SEW CL A 2, 12" @ 1.67%
TBF = 0.0 CU YD

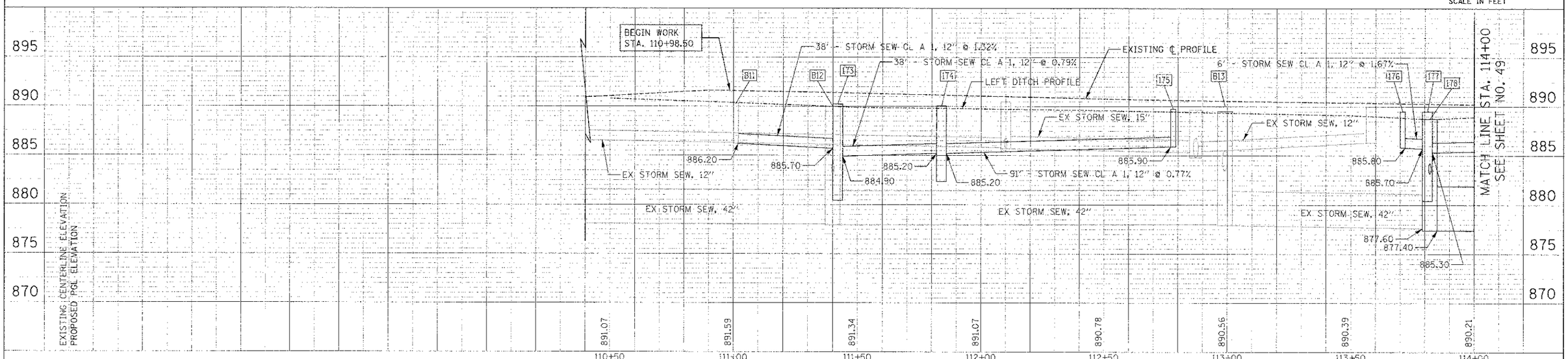
(75) 38' - STORM SEW CL A 1, 12" @ 0.79%
TBF = 9.8 CU YD

(76) 91' - STORM SEW CL A 1, 12" @ 0.77%
TBF = 16.7 CU YD

(77) 6' - STORM SEW CL A 1, 12" @ 1.67%
TBF = 0.8 CU YD

(78) 3' - STORM SEW CL A 2, 12" @ 1.67%
TBF = 0.0 CU YD





FILE NAME = ...\2473_D&U_09.dgn	USER NAME = bea	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 9 OF 12 SHEETS | STA. 110+98 TO STA. 114+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	48
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PR TEMP EASEMENT

FIRE HYDRANT TO BE ADJUSTED

PR TEMP EASEMENT

PR ROW

EX ROW

16"

12"

42"

MATCH LINE STA. 114+00
SEE SHEET NO. 48

MATCH LINE STA. 119+20
SEE SHEET NO. 50

114

115+00

116

117

118

119

EX CENTERLINE/PGL

P.C. CURVE NO. E1

CURVE NO. E1

ILLINOIS ROUTE 47

EX ROW

NOTES:

1. SEE SHEET NUMBER 5; FOR DRAINAGE CALLOFFS

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

LEFT DITCH PROFILE

LEFT DITCH PROFILE

EXISTING ℄ PROFILE

EX STORM SEW, 12"

EX STORM SEW, 12"

EX STORM SEW, 12"

EX STORM SEW, 12"

885.60

50' - STORM SEW CL A 1, 12" @ 0.60%

294' - STORM SEW CL A 2, 54" @ 0.08%

50' - STORM SEW CL A 2, 54" @ 0.16%

15' - STORM SEW CL A 2, 42" @ 0.27%

EX STORM SEW, 42"

EX STORM SEW, 42"

EX SAN FORCEMAIN, 6"

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

890.21 890.10 889.89 889.79 889.76 889.86 889.43 889.19 888.71 888.04 887.27

890 885 880 875 870 865

114+00 114+50 115+00 115+50 116+00 116+50 117+00 117+50 118+00 118+50 119+00

PLAN: SURVEYED, PLOTTED, NOTE BOOK, NO.; ALIGNMENT CHECKED, ALL WORK REVIEWED, CADD FILE NAME; BY; DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALL WORK REVIEWED, STRUCTURE NO(S).; BY; DATE

FILE NAME = ...\2673_0&U_10.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 10 OF 12 SHEETS | STA. 114+00 TO STA. 119+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	49
		CONTRACT NO. 63743		

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

PR TEMP EASEMENT

6" FM

EX ROW

42" (ABANDONED)

MATCH LINE STA. 119+20
SEE SHEET NO. 49

12"

120+00

EX CENTERLINE/PGL

42"

MATCH LINE STA. 120+60
SEE SHEET NO. 46

KREUTZER ROAD

42" (ABANDONED)

60" X 38" (48" EQRS)

KREUTZER ROAD

MATCH LINE STA. 122+65
SEE SHEET NO. 46

EX ROW

15"

42"

12"

CURVE NO. E1

123

ILLINOIS ROUTE 47

60"

EX ROW

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

PROFILE
SURVEYED BY
DRAWN BY
GRADES CHECKED
BAL NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.

MATCH LINE STA. 119+20
SEE SHEET NO. 49

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

LEFT DITCH PROFILE

EXISTING ℄ PROFILE

EX STORM SEW. 42"

EX SAN FORCEMAIN, 6"

EX SAN FORCEMAIN, 6"

EX STORM SEW. 48" EQRS

EX STORM SEW. 54"

890
885
880
875
870
865

886.49 885.70 884.84 884.09 883.39 882.42 881.64 880.74 880.02 879.67

119+50 120+00 120+50 121+00 121+50 122+00 122+50 123+00 123+50 124+00

FILE NAME = ...\2473_DAU_11.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1" = 20' | SHEET NO. 11 OF 12 SHEETS | STA. 119+20 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	30

CONTRACT NO. 63743

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

122 STA. 22+50, 18.0' RT
INLETS TA T24F&G
RIM = 875.59
INV = 871.11 (NE)

123 STA. 22+50, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 875.59
INV = 873.70 (PD W)
INV = 870.78 (SW)
INV = 870.78 (NE)

124 STA. 22+50, 40.0' LT
MAN TA 4 DIA T1F CL
RIM = 874.80
INV = 870.60 (SW)
INV = 869.09 (NW)
INV = 868.89 (SE)

125 STA. 24+00, 35.0' LT
MAN TA 5 DIA T1F CL
RIM = 875.20
INV = 868.00 (NW)
INV = 866.75 (SE)
INV = 866.55 (SW)

126 STA. 24+00, 18.0' LT
CB TA 5 DIA T24F&G
RIM = 874.54
INV = 866.52 (NE)
INV = 866.52 (SW)

127 STA. 24+00, 18.0' RT
CB TA 5 DIA T24F&G
RIM = 874.54
INV = 866.44 (NE)
INV = 866.44 (SW)

128 STA. 24+00, 45.5' RT
PRC FLAR END SEC 36
GRATING-C FL END S 36
INV = 866.39

128A STA. 22+17, 40.4' RT
MAN TA 6D T1F CL R-P
RIM = 870.00
INV = 864.47 (S)
INV = 864.47 (N)
7.4" ORIFICE

128B STA. 21+60, 24.5' RT
MAN TA 5 DIA T1F CL
RIM = 876.00
INV = 864.32 (N)
INV = 864.32 (SE)

129 STA. 25+70, 18.0' RT
INLETS TA T24F&G
RIM = 873.65
INV = 869.49 (SE)

129A STA. 25+90, 18.0' RT
INLETS TA T24F&G
RIM = 873.65
INV = 869.49 (NW)

130 STA. 25+80, 18.0' RT
CB TA 4 DIA T24F&G
RIM = 873.64
INV = 869.42 (NW)
INV = 869.42 (SE)
INV = 869.42 (NE)

131 STA. 25+70, 18.0' LT
INLETS TA T24F&G
RIM = 873.65
INV = 871.75 (PD SW)
INV = 869.49 (SE)

131A STA. 25+90, 18.0' LT
INLETS TA T24F&G
RIM = 873.65
INV = 869.49 (NW)

132 STA. 25+80, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 873.64
INV = 869.42 (NW)
INV = 869.42 (SE)
INV = 869.10 (SW)
INV = 869.10 (NE)

133 STA. 25+80, 35.0' LT
MAN TA 5 DIA T1F CL
RIM = 874.30
INV = 868.97 (SW)
INV = 867.36 (SE)
INV = 867.16 (NW)

140 STA. 32+50, 18.0' RT
INLETS TA T24F&G
RIM = 876.12
INV = 871.91 (N)

141 STA. 32+50, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 876.12
INV = 871.58 (S)
INV = 871.58 (N)

142 STA. 32+50, 45.0' LT
MAN TA 5 DIA T1F CL
RIM = 879.15
INV = 871.35 (S)
INV = 869.55 (E)
INV = 869.35 (W)

143 STA. 34+23, 18.0' LT
INLETS TA T24F&G
RIM = 875.20
INV = 873.32 (PD W)
INV = 871.07 (E)

143A STA. 34+43, 18.0' LT
INLETS TA T24F&G
RIM = 875.20
INV = 871.07 (W)

144 STA. 34+33, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 875.20
INV = 871.00 (W)
INV = 871.00 (E)
INV = 871.00 (N)

145 STA. 34+33, 40.0' LT
MAN TA 5 DIA T1F CL
RIM = 875.20
INV = 870.82 (S)
INV = 870.20 (E)
INV = 870.00 (W)

146 STA. 35+50, 18.0' LT
CB TA 4 DIA T24F&G
RIM = 875.74
INV = 871.57 (N)

147 STA. 35+50, 40.0' LT
MAN TA 5 DIA T1F CL
RIM = 875.95
INV = 871.39 (S)
INV = 870.68 (E)
INV = 870.48 (W)

148 STA. 37+00, 21.3' LT
CB TA 4 DIA T24F&G
RIM = 877.05
INV = 872.88 (N)

149 STA. 37+00, 40.0' LT
MAN TA 5 DIA T1F CL
RIM = 877.50
INV = 872.74 (S)
INV = 871.24 (E)
INV = 871.04 (W)

150 STA. 38+50, 27.8' LT
CB TA 4 DIA T24F&G
RIM = 878.30
INV = 876.42 (PD S)
INV = 873.75 (N)

151 STA. 38+50, 47.5' LT
MAN TA 5 DIA T1F CL
RIM = 877.95
INV = 873.60 (S)
INV = 871.80 (E)
INV = 871.60 (W)

152 STA. 39+50 32.2' LT
INLETS TA T24F&G
RIM = 879.13
INV = 874.15 (N)

153 STA. 39+50, 55.0' LT
MAN TA 5 DIA T1F CL
RIM = 878.15
INV = 873.96 (S)
INV = 872.24 (E)
INV = 872.04 (W)

154 STA. 41+00 38.8' LT
CB TA 4 DIA T24F&G
RIM = 880.38
INV = 874.77 (N)

155 STA. 41+00, 60.0' LT
MAN TA 5 DIA T1F CL
RIM = 879.25
INV = 874.60 (S)
INV = 872.80 (E)
INV = 872.60 (W)

156 STA. 42+50, 39.0' LT
CB TA 5 DIA T24F&G
RIM = 881.76
INV = 879.64 (PD SW)
INV = 875.96 (S)
INV = 875.27 (N)

157 STA. 42+50, 60.0' LT
MAN TA 5 DIA T1F CL
RIM = 880.70
INV = 875.17 (S)
INV = 873.37 (E)
INV = 873.17 (W)

158 STA. 45+50, 51.0' RT
INLETS TA T24F&G
RIM = 883.88
INV = 879.71 (W)

158A STA. 44+50, 51.0' RT
CB TA 4 DIA T24F&G
RIM = 883.36
INV = 878.74 (E)
INV = 878.74 (NW)

159 STA. 44+00, 39.0' LT
CB TA 4 DIA T24F&G
RIM = 883.37
INV = 877.75 (SE)
INV = 875.91 (N)

160 STA. 44+00, 60.0' LT
MAN TA 4 DIA T1F CL
RIM = 882.30
INV = 875.74 (S)
INV = 873.74 (W)

161 STA. 42+53, 54.6' RT
CB TC T24F&G
RIM = 881.50
INV = 876.63 (SW)

162 STA. 41+73, 50.9' RT
INLETS TA T24F&G
RIM = 881.22
INV = 876.37 (NW)

163 STA. 41+66, 47.3' RT
CB TA 4 DIA T24F&G
RIM = 881.17
INV = 876.34 (SE)
INV = 876.34 (NE)

164 STA. 39+94, 34.1' RT
CB TC T24F&G
RIM = 879.49
INV = 874.23 (N)

165 STA. 38+01, 25.7' RT
CB TC T24F&G
RIM = 877.89
INV = 872.41 (NW)

166 STA. 34+22, 18.0' RT
CB TA 4 DIA T24F&G
RIM = 875.20
INV = 869.45 (W)
INV = 869.45 (E)

166A STA. 34+12. 18.0' RT
INLETS TA T24F&G
RIM = 875.21
INV = 869.52 (E)

167 STA. 46+72, 66.2' LT
CB TC T24F&G
RIM = 882.88
INV = 878.87 (SE)

168 STA. 46+78, 61.4' LT
MAN TA 4 DIA T1F CL
RIM = 882.93
INV = 878.79 (NW)
INV = 878.69 EX (NE)

179 STA. 114+34, 51.0' LT
INLETS TA T24F&G
RIM = 889.75
INV = 885.60 (S)

180 STA. 116+80, 60.0' LT
MAN TA 6 DIA T1F CL
RIM = 889.15
INV = 877.16 (S)
INN = 876.66 (N)

181 STA. 117+35, 60.0' LT
MAN TA 7D T1F CL R-P
RIM = 888.80
INV = 876.58 (N)
INV = 876.58 (S)
32" ORIFICE
10-YEAR H.W.E. = 881.64

182 STA. 119+00, 85.0' LT
PRC FLAR END SEC 12
GRATING-C FL END S 12
INV = 878.53 (W)

184 STA. 21+38, 44.6' RT
MAN TA 4 DIA T1F CL
RIM = 870.00
INV = 864.39 (N)
INV = 864.39 (S)

187 STA. 22+26, 58.5' RT
PRC FLAR END SEC 24
GRATING-C FL END S 24
INV = 864.50 (NE)

A4 STA. 21+38, 33.1' RT
MAN RECONST
EX RIM = 870.36
PR RIM = 873.15
INV = 864.60 EX (S)
INV = 864.80 EX (N)

B1 STA. 42+63, 105.2' RT
EX MANHOLE
EX RIM = 881.73
INV = 876.60 EX (E)
INV = 876.60 EX (S)
INV = 876.50 EX (NW)

B2 STA. 42+48, 56.6' RT
MAN ADJ NEW T24F&G
EX RIM = 881.99
PR RIM = 881.45
INV = 877.60 EX (SW) PLUG
INV = 876.60 EX (SE)
INV = 876.50 EX (W) PLUG
INV = 876.60 EX (NE)
INV = 876.50 (N)

B3 STA. 41+96, 56.8' RT
MAN ADJ NEW T1F CL
EX RIM = 881.87
PR RIM = 881.35
INV = 876.60 EX (E) PLUG
INV = 876.40 EX (S)
INV = 876.30 EX (NW)

B4 STA. 41+73, 40.0' RT
MAN ADJ NEW T1F CL
EX RIM = 881.83
PR RIM = 881.05
INV = 877.20 EX (NE) PLUG
INV = 876.00 EX (SE)
INV = 876.00 EX (W)
INV = 876.30 (SW)

B5 STA. 39+94, 28.0' RT
MAN ADJ NEW T1F CL
EX RIM = 880.97
PR RIM = 879.62
INV = 874.10 EX (E)
INV = 874.00 EX (W)
INV = 874.20 (S)

B6 STA. 37+99, 22.3' RT
MAN ADJ NEW T1F CL
EX RIM = 879.08
PR RIM = 877.94
INV = 872.20 EX (E)
INV = 872.20 EX (W)
INV = 872.40 (SE)

B7 STA. 36+12, 20.5' RT
MAN ADJ NEW T24F&G
EX RIM = 877.55
PR RIM = 876.31
INV = 871.00 EX (E)
INV = 871.00 EX (W)

B8 STA. 34+31, 21.5' RT
MAN ADJ NEW T24F&G
EX RIM = 876.05
PR RIM = 875.20
INV = 869.20 EX (E)
INV = 869.20 EX (S)
INV = 869.40 (W)

B9 STA. 34+32, 102.1' RT
EX FLAR END SEC 36
INV = 868.84

B15 STA. 117+56, 56.2' LT
MAN RECONST
EX RIM = 887.44
PR RIM = 889.85
INV = 876.13 EX (N)
INV = 876.54 (S)
INV = 875.10 EX (E)

B16 STA. 119+01, 67.7' LT
INL RECON NEW T1 CL
EX RIM = 879.16±
PR RIM = 884.35
INV = 878.43 (W)
INV = 876.57± EX (E)

B17 STA. 119+00, 48.5' LT
MAN ADJUST
EX RIM = 887.00±
PR RIM = 887.96
INV = 876.53± EX (W)
INV = 876.53± EX (S)

S7 STA. 31+86, 38.0' LT
SAN MAN ADJUST
EX RIM = 876.35
PR RIM = 876.40
INV = 864.70 EX (E)
INV = 864.40 EX (W)

S8 STA. 35+35, 33.6' LT
SAN MAN ADJUST
EX RIM = 876.67
PR RIM = 876.25
INV = 866.00 EX (E)
INV = 866.00 EX (W)

S9 STA. 38+87, 34.5' LT
SAN MAN ADJUST
EX RIM = 879.77
PR RIM = 878.95
INV = 868.00 EX (E)
INV = 867.90 EX (W)

S10 STA. 42+35, 10.6' LT
SAN MAN ADJUST
EX RIM = 881.54
PR RIM = 882.18
INV = 871.10 EX (S)
INV = 870.70 EX (N)
INV = 869.80 EX (NE)
INV = 869.70 EX (W)

S11 STA. 44+23, 54.8' LT
SAN MAN ADJUST
EX RIM = 881.99
PR RIM = 883.80
INV = 870.70 EX (SW)
INV = 870.60 EX (SE)

21 137' - STORM SEW CL A 2, 18" @ 0.65%
TBF = 0.0 CU YD

22 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 6.9 CU YD

23 18' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 4.5 CU YD

24 137' - STORM SEW CL A 2, 18" @ 0.65%
TBF = 0.0 CU YD

25 12' - STORM SEW CL A 2, 36" @ 0.25%
TBF = 15.7 CU YD

26 31' - STORM SEW CL A 2, 36" @ 0.25%
TBF = 29.9 CU YD

27 19' - STORM SEW CL A 2, 36" @ 0.25%
TBF = 1.1 CU YD

28 56' - STORM SEW CL A 2, 24" @ 0.26%
TBF = 0.0 CU YD

28A 12' - STORM SEW CL A 2, 24" @ 0.25%
TBF = 0.0 CU YD

29 165' - STORM SEW CL A 2, 36" @ 0.25%
TBF = 15.7 CU YD

30 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

30A 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

31 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

31A 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

32 32' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 5.9 CU YD

33 13' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 3.0 CU YD

41 33' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 5.9 CU YD

42 23' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 10.6 CU YD

43 178' - STORM SEW CL A 2, 36" @ 0.25%
TBF = 0.0 CU YD

44 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

44A 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

45 18' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 4.2 CU YD

46 112' - STORM SEW CL A 1, 36" @ 0.25%
TBF = 0.0 CU YD

47 18' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 4.2 CU YD

48 145' - STORM SEW CL A 1, 36" @ 0.25%
TBF = 0.0 CU YD

49 14' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 4.0 CU YD

50 145' - STORM SEW CL A 1, 36" @ 0.25%
TBF = 0.0 CU YD

51 15' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 4.3 CU YD

52 95' - STORM SEW CL A 1, 36" @ 0.25%
TBF = 0.0 CU YD

53 19' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 4.6 CU YD

54 144' - STORM SEW CL A 1, 30" @ 0.25%
TBF = 0.0 CU YD

55 17' - STORM SEW CL A 2, 12" @ 1.00%
TBF = 5.4 CU YD

56 148' - STORM SEW CL A 2, 30" @ 0.25%
TBF = 0.0 CU YD

57 17' - STORM SEW CL A 2, 24" @ 0.59%
TBF = 11.0 CU YD

57A 92' - STORM SEW WM REQ 24 @ 0.59%
TBF = 61.0 CU YD

58 148' - STORM SEW CL A 2, 18" @ 0.25%
TBF = 0.0 CU YD

59 17' - STORM SEW CL A 2, 15" @ 1.00%
TBF = 13.1 CU YD

60 99' - STORM SEW WM REQ 12 @ 1.00%
TBF = 24.1 CU YD

60A 97' - STORM SEW WM REQ 12 @ 1.00%
TBF = 17.1 CU YD

61 3' - STORM SEW CL A 1, 15" @ 1.00%
TBF = 0.7 CU YD

62 3' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.7 CU YD

63 4' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.4 CU YD

64 3' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.6 CU YD

65 1' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.3 CU YD

66 5' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 3.4 CU YD

66A 7' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 1.0 CU YD

67 4' - STORM SEW WM REQ 12 @ 2.00%
TBF = 0.6 CU YD

79 50' - STORM SEW CL A 1, 12" @ 0.60%
TBF = 8.2 CU YD

80 294' - STORM SEW CL A 2, 54" @ 0.08%
TBF = 143.5 CU YD

81 50' - STORM SEW CL A 2, 54" @ 0.16%
TBF = 0.0 CU YD

82 15' - STORM SEW CL A 2, 42" @ 0.27%
TBF = 0.0 CU YD

83 10' - STORM SEW CL A 1, 12" @ 1.00%
TBF = 0.0 CU YD

302 32' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 0.7 CU YD

303 31' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 0.7 CU YD

305 30' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 0.7 CU YD

306 45' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 1.0 CU YD

307 76' - PIPE UNDERDRAINS 4" @ 0.50%
TBF = 1.6 CU YD

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB STRUCTURES ARE AT THE EDGE OF PAVEMENT.

FILE NAME = ...\2473_D&U_12.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - BAS	REVISED -	DRAINAGE AND UTILITY PLAN
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -	SCALE: | SHEET NO. 12 OF 12 SHEETS | STA. TO STA.
	PLOT DATE = 2/22/2013	DATE - 10/22/12	REVISED -	

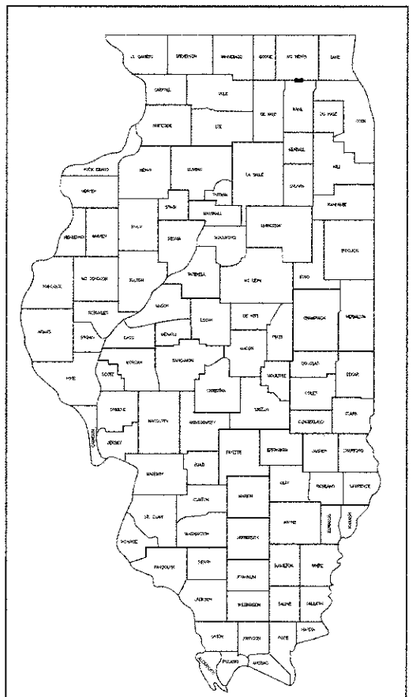
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	51
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1 | ILLINOIS		FED. AID PROJECT XXX-------		

* F.A.U. 4068 (KREUTZER ROAD)				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	10	1
F.H.W.A. REG.	ILLINOIS	PROJECT		

** 07-00031-00-PV
*** KANE & McHENRY
R-91-002-12

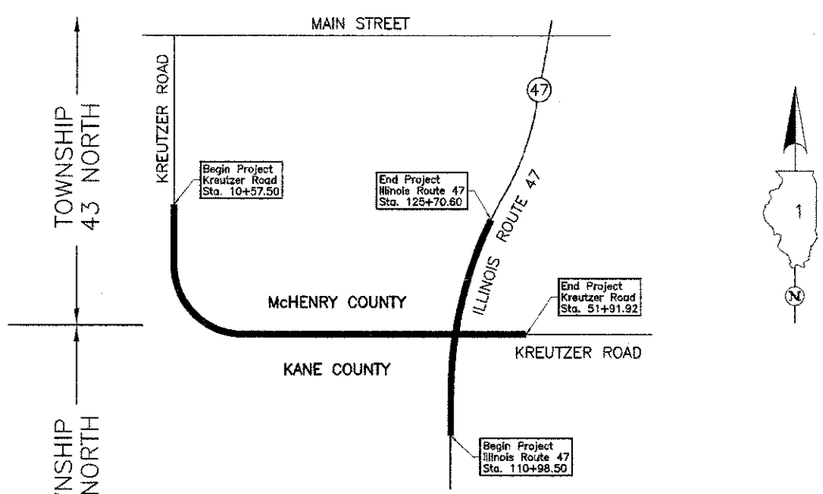
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLANS
FOR PROPOSED
FEDERAL AID HIGHWAY

ROUTE: F.A.U. 4068 (KREUTZER ROAD)
SECTION: 07-00031-00-PV
PROJECT NO.:
JOB NO.: R-91-002-12
COUNTY: KANE & McHENRY
LIMITS: ILLINOIS ROUTE 47 TO MAIN STREET



LOCATION OF SECTION INDICATED THUS:

RANGE 7 EAST



PROJECT LENGTH = 4,134.42 LIN. FT. = 0.783 MILE, KREUTZER ROAD
= 1,472.10 LIN. FT. = 0.279 MILE, ILLINOIS ROUTE 47
TOTAL LENGTH = 5,606.52 LIN. FT. = 1.062 MILES

APPROVED _____ 20____
LOCAL AGENCY OFFICIAL

APPROVED _____ 20____
ENGINEER OF LAND ACQUISITION

APPROVED _____ 20____
ENGINEER OF LOCAL ROADS & STREETS

APPROVED _____ 20____
DISTRICT ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY KANE & McHENRY SECTION 07-00031-00-PV ROUTE F.A.U. 4068 (KREUTZER ROAD) R-91-002-12

FILE NAME = ...\2473_PHL01.dgn	USER NAME = bas	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS	F.A.U. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JORGENSEN & ASSOC.	REVISED -			4068	07-00031-00-PV	McHENRY / 167 / 52
	PLOT SCALE = 35.0200 ' / in.	CHECKED - CJ	REVISED -					CONTRACT NO. 63743
	PLOT DATE = 10/18/2012	DATE -	REVISED -		SCALE: GRAPHIC / SHEET NO. 1 OF 10 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------

PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS AND
PART OF THE SE 1/4 OF SEC. 32, TWP. 43 N., R. 7 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
1JH0001-A 1JH0001-B	Harris Bank, N.A., as successor to The State Bank of Woodstock, as Trustee under Trust Agreement dated the 28th day of December, 1988, and known as Trust Number 4365	37.921	A=3.305 B=0.735	0.265	33.878	N/A	N/A	18-32-400-006	Village of Huntley Doc. 2011R0049476

Proposed ℄ Pavement
Kreutzer Road Curve #1

P.I.	=	Sta. 24+88.37
Δ	=	90°17'41"
R	=	655.00'
T	=	658.38'
L	=	1032.24'
E	=	273.70'
P.C.	=	Sta. 18+29.99
P.T.	=	Sta. 28+62.23

S. Line N. 1/2 S. 1/2 SE 1/4 Sec. 32-43-7
N89°56'59"E
-2320.76'-
-2215.54'-
N. Line S. 1/2 S. 1/2 SE 1/4 Sec. 32-43-7

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
-----	2003R0072704	June 3, 2003
-----	2006R0019672	March 21, 2006
-----	2011K030677	May 20, 2011
-----	2011K056974	September 28, 2011

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
23+00.00	70.00' Lt.	1,998,901.915	955,049.048
23+05.51	261.36' Rt.	1,998,679.499	954,803.351
24+50.00	50.00' Lt.	1,998,795.229	955,135.642
24+50.00	50.00' Lt.	1,998,803.313	955,141.528
25+08.22	50.46' Rt.	1,998,679.412	955,128.770
26+29.85	50.31' Rt.	1,998,622.933	955,246.748
27+22.44	65.67' Rt.	1,998,579.996	955,339.117
28+60.92	50.00' Lt.	1,998,679.314	955,490.554
28+72.72	70.00' Rt.	1,998,559.311	955,502.250
36+98.52	49.78' Lt.	1,998,679.088	956,328.048

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

SCALE: 1"=50'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ 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 BETWEEN SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY AND SECTION 32, TOWNSHIP 43N., RANGE 7E., 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.

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.

Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
17+81.73	75.00' Lt.	1,999,335.557	954,912.019
17+82.36	30.22' Rt.	1,999,335.464	954,806.801
18+29.99	75.00' Lt.	1,999,287.295	954,911.771
20+00.00	70.00' Lt.	1,999,137.083	954,925.593
20+00.00	75.00' Lt.	1,999,138.341	954,930.432
23+00.00	60.00' Lt.	1,998,895.378	955,041.480

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

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV KANE & McHENRY COUNTY
PROJECT JOB NO. R-91-002-12
STATION 17+00 TO STATION 37+00
SCALE: 1"=50' SHEET 2 OF 10

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

M-2
"Monument Record"
Center of Section 32-43-7
N.2,001,303.360-E.954,817.150
Recorded November 16, 2011
Document No. 2011R0046415

See Sheet 8 for Total Holdings Parcel 1JH0001-A & B

M-1
"Monument Record"
South 1/4 Corner of Section 32-43-7
N.1,998,679.499-E.954,803.351
Recorded November 16, 2011
Document No. 2011R0046415
North 1/4 Corner of Section 5-42-7
N.1,998,678.818-E.954,686.533
Recorded November 17, 2011
Document No. 2011K069405

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	BT1	36.30
	T2	25.43
	T3	19.20
2	BT1	20.78
	T2	24.01
	T3	34.29
3	BT1	39.84
	BT2	25.23
	BT3	40.53
4	BT1	43.48
	BT2	30.23
	BT3	43.41
5	BT1	39.95
	BT2	27.71
	BT3	42.39
6	BT1	46.98
	BT2	37.71
	BT3	50.23
7	BT1	32.72
	BT2	29.81
	BT3	48.84
8	BT1	40.06
	BT2	36.81
	BT3	57.16
9	BT1	47.73
	BT2	32.10
	BT3	45.08

See Sheet 3 for Parcel 1JH0001-B

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) | SECTION 07-00031-00-PV | COUNTY KANE & McHENRY | JOB NO. R-91-002-12 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2473_PH_02.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 35.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 10/15/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 2 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	53
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS AND
PART OF THE SE 1/4 OF SEC. 32, TWP. 43 N., R. 7 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
1JH0001-A 1JH0001-B	Harris Bank, N.A., as successor to The State Bank of Woodstock, as Trustee under Trust Agreement dated the 28th day of December, 1988, and known as Trust Number 4365	37.921	A=3.305 B=0.738	0.265	33.878	N/A	N/A	18-32-400-006	Village of Huntley Doc. 2011R0049476

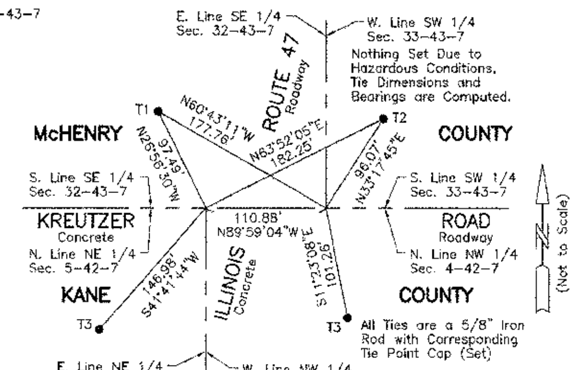
EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JH0001	2002R0112081	November 26, 2002
1JH0001	08 ED 14	*December 22, 2009
----	2002K151988	November 19, 2002
----	2007K102318	October 5, 2007
----	2008K081226	October 24, 2008
----	08 ED 13	*December 22, 2009
----	2011K030677	May 20, 2011

* Date Filed

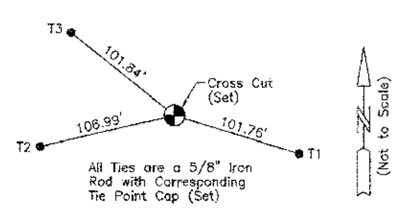
S. Line N. 1/2 S. 1/2 SE 1/4 Sec. 32-43-7
N89°56'59"E
-2320.76'-
-2215.54'-
N. Line S. 1/2 S. 1/2 SE 1/4 Sec. 32-43-7

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	BT1 BT2 BT3	60.38 30.94 65.38
2	BT1 BT2 BT3	43.40 27.87 33.93
3	BT1 BT2 BT3	38.78 28.69 40.86
4	BT1 BT2 BT3	34.40 18.43 32.03
5	T1 T2 T3	34.41 16.24 25.85
6	T1 T2 T3	32.46 12.12 23.86
7	T1 T2 T3	33.04 42.94 13.37
8	T1 T2 T3	19.36 36.33 38.15

T2 & T3 to Point Nos. 5, 6 & 7 are Building Corners of Brick Residence, measured 4' above existing ground. T2 & T3 to Point No. 8 are Building corners of Brick Residence, measured 4' above existing ground.



M-3
"Monument Record"
Southeast Corner of Section 32-43-7
N.1,998,678.792-E.957,427.975
Recorded November 16, 2011
Document No. 2011R0046415
Northeast Corner of Section 5-42-7
N.1,998,678.822-E.957,317.096
Recorded November 17, 2011
Document No. 2011K069405



COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
42+12.46	94.65' Rt.	1,998,558.949	956,846.957
42+14.88	53.86' Rt.	1,998,599.809	956,846.899
42+52.65	31.19' Lt.	1,998,686.830	956,879.776
42+53.86	55.39' Lt.	1,998,711.060	956,879.742
43+09.04	47.05' Rt.	1,998,611.283	956,939.642
43+48.85	69.31' Lt.	1,998,729.038	956,975.241
44+29.89	38.92' Rt.	1,998,622.848	957,058.169
44+35.48	39.04' Lt.	1,998,700.882	957,063.514
44+35.80	59.56' Lt.	1,998,721.412	957,063.520
44+61.27	39.41' Rt.	1,998,622.781	957,090.310
45+60.78	51.92' Rt.	1,998,610.345	957,189.131
46+00.61	66.97' Lt.	1,998,729.022	957,229.602
46+00.61	71.97' Lt.	1,998,734.022	957,229.629
46+34.63	72.16' Lt.	1,998,734.020	957,263.653
46+88.45	℄	1,998,661.576	957,317.081
119+60.73	69.46' Lt.	1,998,458.143	957,240.269
120+15.48	℄	1,998,503.039	957,316.937
120+49.85	82.46' Lt.	1,998,550.466	957,241.015
121+38.34	106.76' Rt.	1,998,603.417	957,442.895
121+78.54	74.57' Lt.	1,998,678.834	957,273.221
121+85.98	22.92' Rt.	1,998,665.923	957,370.146
121+87.50	31.65' Lt.	1,998,678.822	957,317.096
121+94.27	℄	1,998,678.813	957,349.475
122+00.37	75.10' Lt.	1,998,700.825	957,277.402
122+11.31	76.68' Rt.	1,998,678.792	957,427.976
122+53.30	76.29' Lt.	1,998,754.019	957,288.331
122+64.05	111.60' Rt.	1,998,720.627	957,473.532
123+01.31	82.40' Rt.	1,998,762.636	957,453.876
125+02.43	℄	1,998,976.030	957,430.316
126+52.52	80.21' Lt.	1,999,146.513	957,406.296

Proposed ℄ Pavement Kreutzer Road Curve #2

P.I. = Sta. 39+02.21
Δ = 4°39'57"
R = 5000.00'
T = 203.69'
L = 407.16'
E = 4.15'
P.C. = Sta. 36+98.52
P.R.C. = Sta. 41+05.68

Proposed ℄ Pavement Kreutzer Road Curve #3

P.I. = Sta. 43+22.88
Δ = 4°58'29"
R = 5000.00'
T = 217.20'
L = 434.14'
E = 4.72'
P.R.C. = Sta. 41+05.68
P.T. = Sta. 45+39.82

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #4

P.I. = Sta. 120+68.85
Δ = 19°31'43"
R = 2950.00'
T = 507.66'
L = 1005.48'
E = 43.36'
P.C. = Sta. 115+61.19
P.C.C. = Sta. 125+66.67

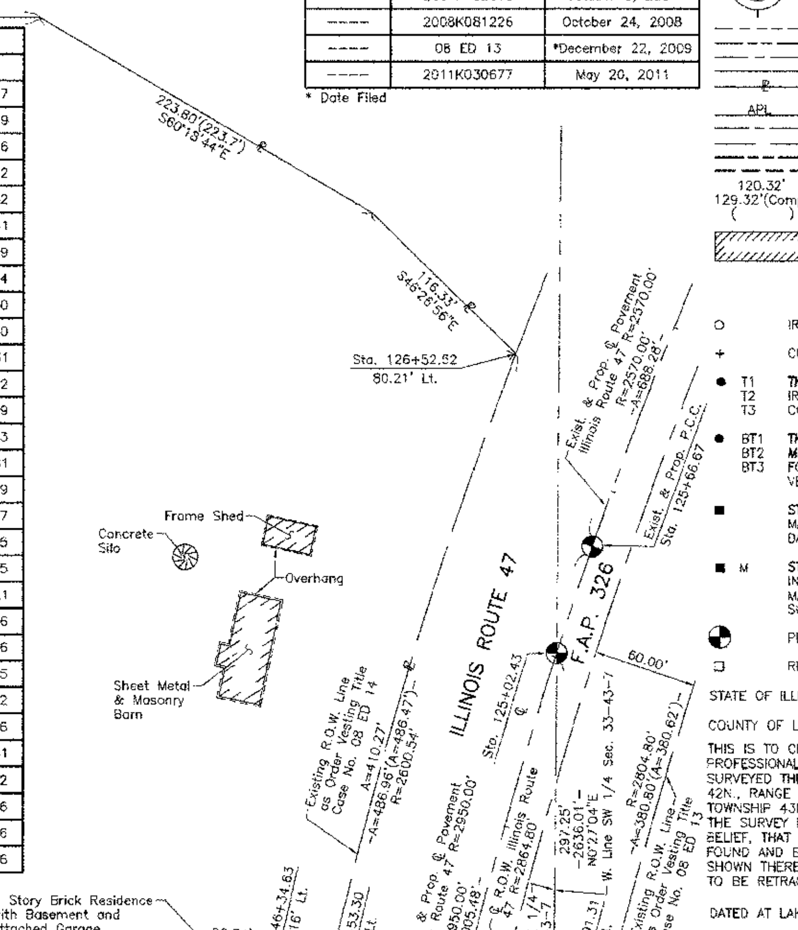
Existing & Proposed ℄ Pavement Illinois Route 47 Curve #5

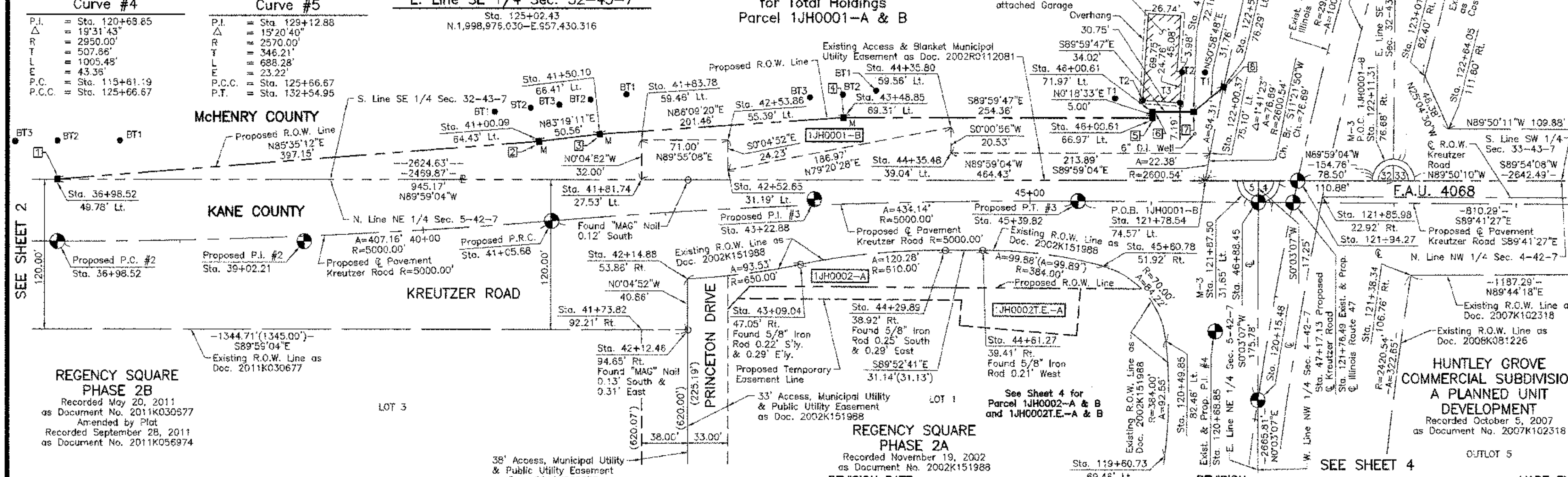
P.I. = Sta. 129+12.88
Δ = 15°20'40"
R = 2570.00'
T = 346.21'
L = 688.28'
E = 23.22'
P.C.C. = Sta. 125+66.67
P.T. = Sta. 132+54.95

Existing & Proposed ℄ Pavement Illinois Route 47 – E. Line SE 1/4 Sec. 32-43-7

Sta. 125+02.43
N.1,998,976.030-E.957,430.316

See Sheet 8 for Total Holdings Parcel 1JH0001-A & B





REVISION DATE | REVISION | MADE BY

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

SCALE: 1"=50'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ 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 BETWEEN SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY AND SECTION 32, TOWNSHIP 43N., RANGE 7E., 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.

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.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
36+98.52	49.78' Lt.	1,998,679.088	956,328.048
41+00.09	64.43' Lt.	1,998,709.649	956,724.018
41+50.10	66.41' Lt.	1,998,715.530	956,774.233
41+73.82	92.21' Rt.	1,998,558.959	956,808.957
41+81.74	27.53' Lt.	1,998,678.959	956,808.787
41+83.78	59.46' Lt.	1,998,710.959	956,808.742

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.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV — KANE & McHENRY COUNTY
PROJECT — JOB NO. R-91-002-12
STATION 36+98.52 TO STATION 49+00
STATION 119+00 TO STATION 127+00
SCALE: 1"=50' SHEET 3 OF 10

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

ROUTE F.A.U. 4068 (KREUTZER ROAD) SECTION 07-00031-00-PV COUNTY KANE & McHENRY JOB NO. R-91-002-12

RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = ...\2473_PH_03.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 35.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 10/18/2012	DATE -	REVISED -

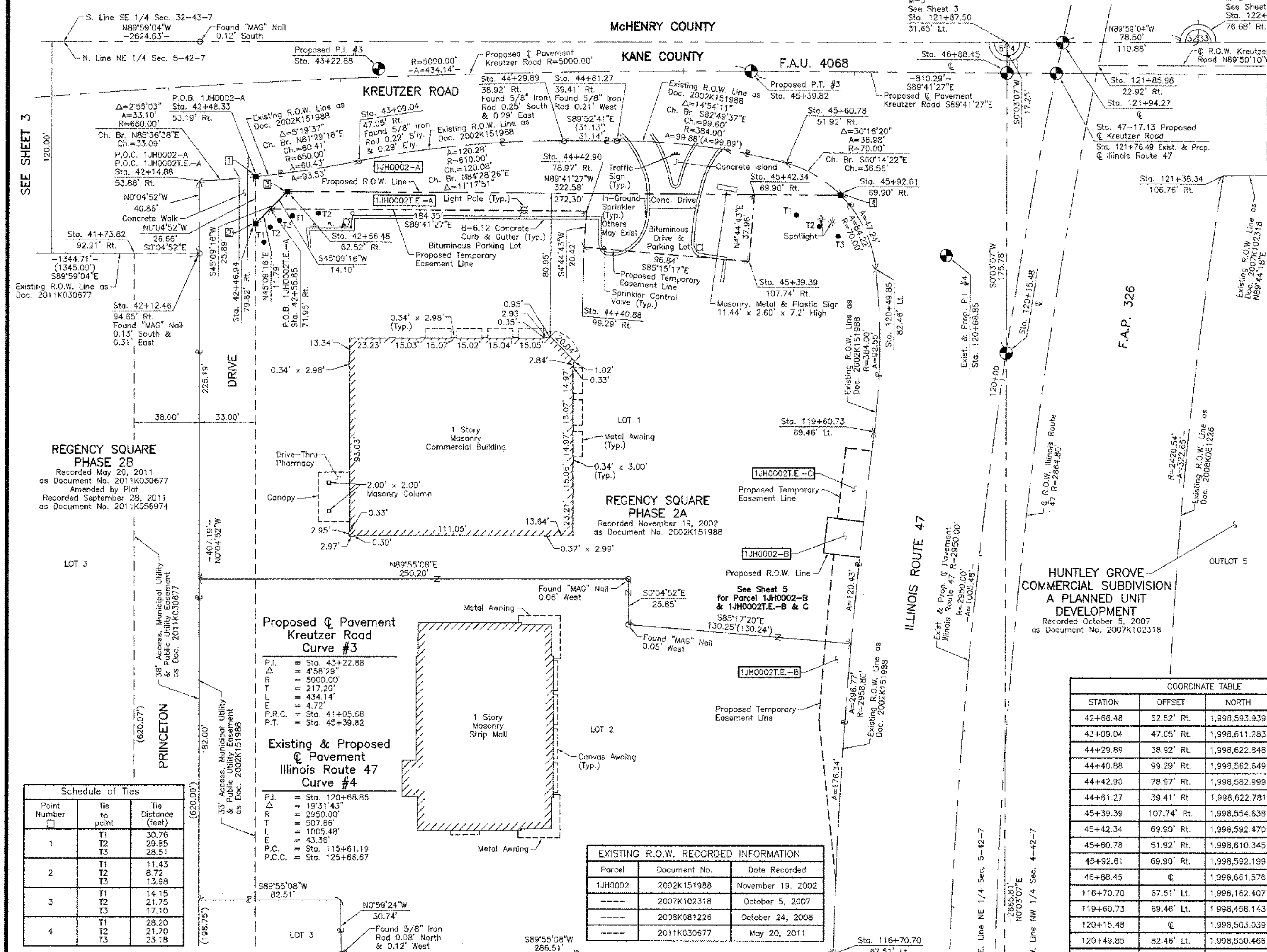
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 3 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	54
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PART OF THE NW 1/4 OF SEC. 4 AND PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



Proposed ℄ Pavement Kreutzer Road Curve #3

P.I. = Sta. 43+22.88
Δ = 4°58'29"
R = 5000.00'
T = 217.20'
L = 434.14'
E = 4.72'
P.R.C. = Sta. 41+05.68
P.T. = Sta. 45+39.82

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #4

P.I. = Sta. 120+68.85
Δ = 19°31'43"
R = 2950.00'
T = 507.66'
L = 1005.48'
E = 43.36'
P.C. = Sta. 115+61.19
P.C.C. = Sta. 125+66.67

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1 T2 T3	30.76 29.85 28.51
2	T1 T2 T3	11.43 8.72 13.98
3	T1 T2 T3	14.15 21.75 17.10
4	T1 T2 T3	28.20 21.70 23.18

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JH0002	2002K151988	November 19, 2002
----	2007K102318	October 5, 2007
----	2008K081226	October 24, 2008
----	2011K030677	May 20, 2011

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JH0002-A 1JH0002-B 1JH0002T.E.-A 1JH0002T.E.-B 1JH0002T.E.-C	Route 47 & Kreutzer, L.L.C., an Illinois limited liability company	3.915	A=0.180 B=0.010	N/A 418	N/A	3.725	A=0.117 B=0.047 C=0.014	Construction Purposes Grading Grading	02-05-235-001 02-05-235-002	

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 30' 60'
SCALE: 1"=30'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ 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 BETWEEN SECTION 4, TOWNSHIP 42N., RANGE 7E. AND SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS_____ DAY OF____________20___A.D.

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.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
42+66.48	62.52' Rt.	1,998,593.939	956,898.292
43+09.04	47.05' Rt.	1,998,611.283	956,939.642
44+29.89	38.92' Rt.	1,998,622.848	957,059.169
44+40.88	99.29' Rt.	1,998,562.649	957,070.946
44+42.90	78.97' Rt.	1,998,582.999	957,072.635
44+61.27	39.41' Rt.	1,998,622.781	957,090.310
45+39.39	107.74' Rt.	1,998,554.638	957,167.453
45+42.34	69.90' Rt.	1,998,592.470	957,170.593
45+60.78	51.92' Rt.	1,998,610.345	957,189.131
45+92.61	69.90' Rt.	1,998,592.199	957,220.865
46+88.45	℄	1,998,661.576	957,317.081
116+70.70	67.51' Lt.	1,998,162.407	957,217.026
119+60.73	69.46' Lt.	1,998,458.143	957,240.269
120+15.48	℄	1,998,503.039	957,316.937
120+49.85	82.46' Lt.	1,998,550.466	957,241.015
121+38.34	106.76' Rt.	1,998,603.417	957,442.895
121+85.98	22.92' Rt.	1,998,665.923	957,370.146
121+87.50	31.65' Lt.	1,998,678.822	957,317.096
121+94.27	℄	1,998,678.813	957,349.475
122+11.31	76.68' Rt.	1,998,678.792	957,427.976

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
41+73.82	92.21' Rt.	1,998,558.959	956,808.957
42+12.46	94.65' Rt.	1,998,558.949	956,846.957
42+14.88	53.86' Rt.	1,998,599.809	956,846.899
42+46.94	79.82' Rt.	1,998,575.680	956,879.934
42+48.33	53.19' Rt.	1,998,602.342	956,879.896
42+55.85	71.95' Rt.	1,998,583.993	956,888.292

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.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV KANE COUNTY
PROJECT JOB NO. R-91-002-12
STATION 41+00 TO STATION 49+00
STATION 116+00 TO STATION 122+00
SCALE: 1"=30' SHEET 4 OF 10

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

REVISION DATE — REVISION — MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) SECTION 07-00031-00-PV COUNTY KANE JOB NO. R-91-002-12 RECORDING: RECORDED ON AS DOCUMENT NO.

PART OF THE NW 1/4 OF SEC. 4 AND PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

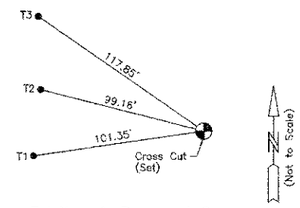
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JH0002-A 1JH0002-B 1JH0002T.E.-A 1JH0002T.E.-B 1JH0002T.E.-C	Route 47 & Kreutzer, L.L.C., an Illinois limited liability company	3.915	A=0.180 B=0.010	N/A 416	N/A	3.725	A=0.117 B=0.047 C=0.014	Construction Purposes Grading Grading	02-05-235-001 02-05-235-002	

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #4

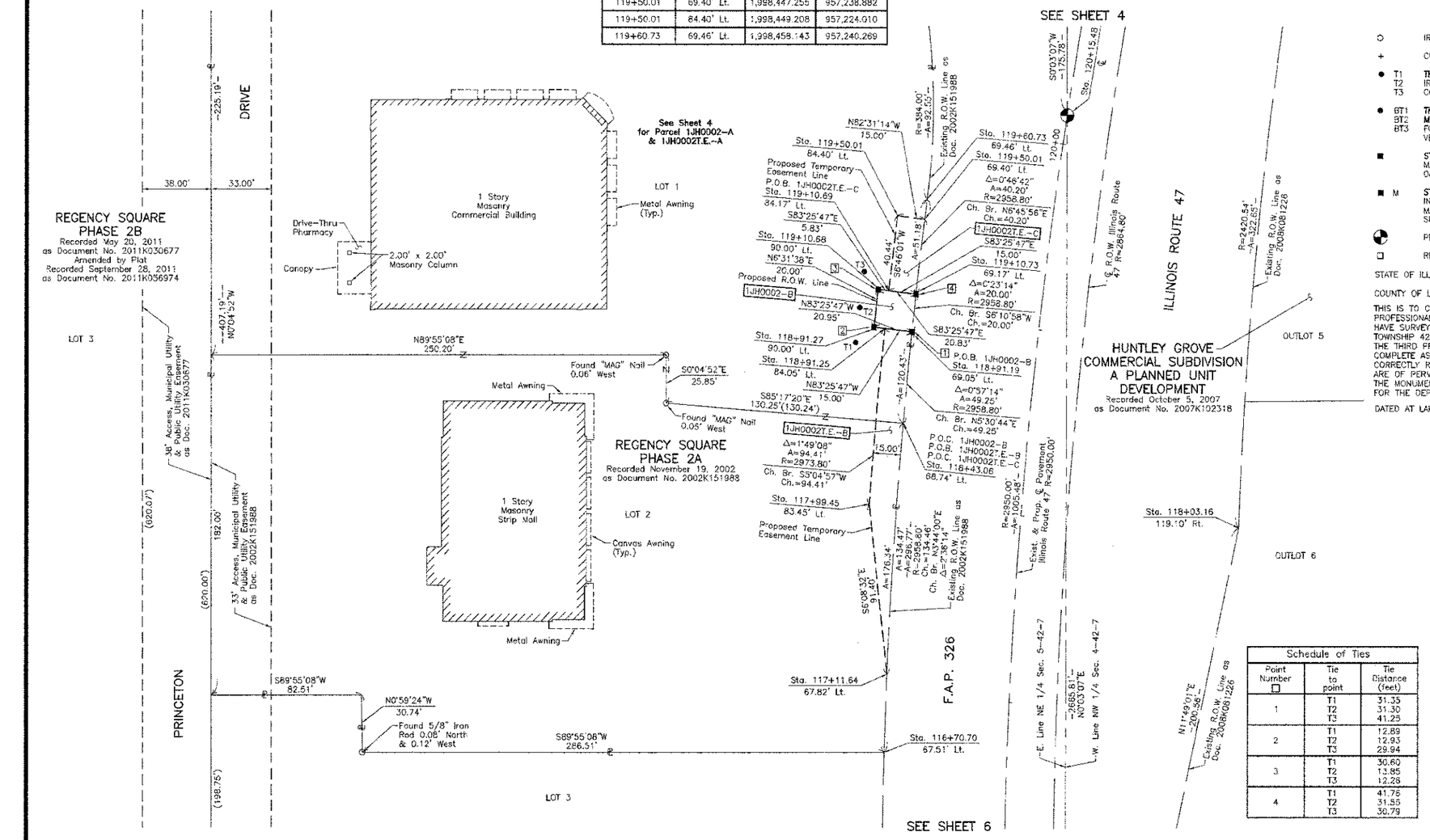
P.I. = Sta. 120+68.85
Δ = 19°31'43"
R = 2950.00'
T = 507.66'
L = 1005.48'
E = 43.36'
P.C. = Sta. 115+61.19
P.C.C. = Sta. 125+66.67

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JH0002	2002K151988	November 19, 2002
-----	2007K102318	October 5, 2007
-----	2008K081226	October 24, 2008
-----	2011K030677	May 20, 2011

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
118+91.25	84.05' Lt.	1,998,389.168	957,217.090
118+91.27	90.00' Lt.	1,998,389.849	957,211.179
119+10.68	90.00' Lt.	1,998,409.720	957,213.453
119+10.69	84.17' Lt.	1,998,409.952	957,219.245
119+10.73	69.17' Lt.	1,998,407.336	957,234.146
119+50.01	69.40' Lt.	1,998,447.255	957,238.882
119+50.01	84.40' Lt.	1,998,449.208	957,224.010
119+60.73	69.46' Lt.	1,998,458.143	957,240.269



Existing & Proposed ℄ Pavement Illinois Route 47 – E. Line NE 1/4 Sec. 5-42-7
Sta. 120+15.48
N.1,998,503.039-E.957,316.937



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 30' 60'
SCALE: 1"=30'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ 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 BETWEEN SECTION 4, TOWNSHIP 42N., RANGE 7E. AND SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY. THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON 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.

_____ 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.

Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
116+70.70	67.51' Lt.	1,998,182.407	957,217.026
117+11.64	67.82' Lt.	1,998,204.253	957,218.506
117+99.45	83.45' Lt.	1,998,295.131	957,208.726
118+03.16	119.10' Rt.	1,998,282.597	957,410.918
118+43.06	68.74' Lt.	1,998,338.427	957,227.261
118+91.19	69.05' Lt.	1,998,387.452	957,231.992

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	31.35
	T2	31.30
	T3	41.25
2	T1	12.89
	T2	12.93
	T3	29.94
3	T1	30.60
	T2	13.85
	T3	12.28
4	T1	41.76
	T2	31.55
	T3	30.79

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60048
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV KANE COUNTY
PROJECT JOB NO. R-91-002-12
STATION 116+00 TO STATION 120+15.48
SCALE: 1"=30' SHEET 5 OF 10

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

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) | SECTION 07-00031-00-PV | COUNTY KANE | JOB NO. R-91-002-12 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2473_PK_05.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 35.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 10/18/2012	DATE -	REVISED -

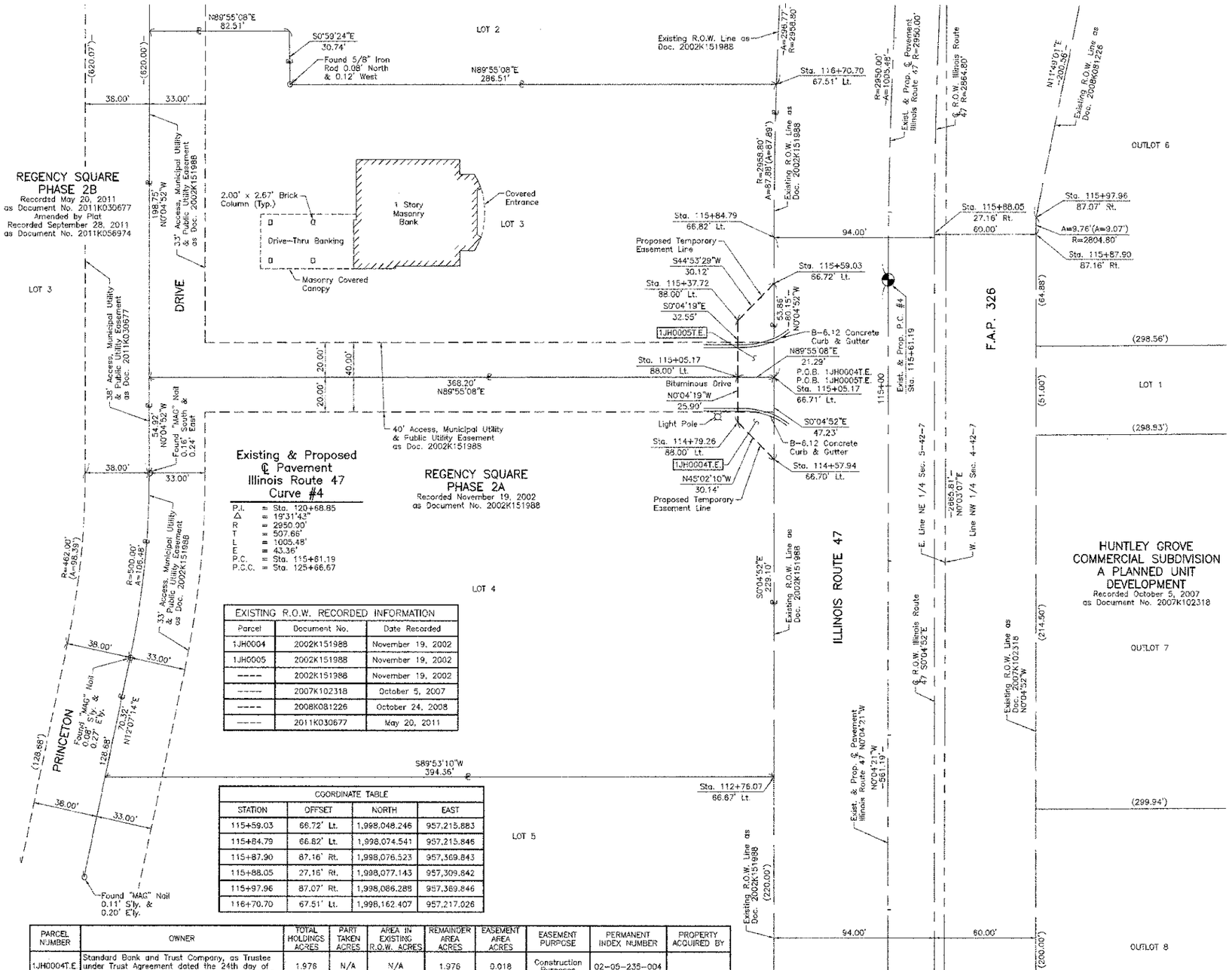
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 5 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	56
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PART OF THE NW 1/4 OF SEC. 4 AND PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JH0004	2002K151988	November 19, 2002
1JH0005	2002K151988	November 19, 2002
----	2002K151988	November 19, 2002
----	2007K102318	October 5, 2007
----	2008K081226	October 24, 2008
----	2011K030677	May 20, 2011

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
115+59.03	66.72' Lt.	1,998,048.246	957,215.883
115+84.79	66.82' Lt.	1,998,074.541	957,215.846
115+87.90	87.16' Rt.	1,998,076.523	957,369.843
115+88.05	27.16' Rt.	1,998,077.143	957,309.842
115+97.96	87.07' Rt.	1,998,086.288	957,369.846
116+70.70	67.51' Lt.	1,998,162.407	957,217.026

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
1JH0004T.E.	Standard Bank and Trust Company, as Trustee under Trust Agreement dated the 24th day of July, 2002, and known as Trust Number 17383	1.976	N/A	N/A	1.976	0.018	Construction Purposes	02-05-235-004	
1JH0005T.E.	JPMorgan Chase Bank, which acquired title as Bank One	1.479	N/A	N/A	1.479	0.021	Construction Purposes	02-05-235-003	

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
MEASURED DIMENSION
COMPUTED DIMENSION
RECORD DATA
EXISTING BUILDING

N

0 30' 60'
SCALE: 1"=30'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ 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 BETWEEN SECTION 4, TOWNSHIP 42N., RANGE 7E. AND SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS_____DAY OF_____20____A.D.

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.

Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
112+76.07	66.67' Lt.	1,997,765.291	957,216.284
114+57.94	66.70' Lt.	1,997,947.160	957,216.026
114+79.26	88.00' Lt.	1,997,968.458	957,194.701
115+05.17	68.71' Lt.	1,997,994.361	957,215.959
115+05.17	88.00' Lt.	1,997,994.361	957,194.668
115+37.72	88.00' Lt.	1,998,026.910	957,194.628

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.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV KANE COUNTY
PROJECT JOB NO. R-91-002-12
STATION 112+00 TO STATION 117+00
SCALE: 1"=30' SHEET 6 OF 10

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

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) | SECTION 07-00031-00-PV | COUNTY KANE | JOB NO. R-91-002-12 | RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = ...\2473_PH_06.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 35.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 12/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 6 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	57
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PART OF THE NW 1/4 OF SEC. 4 AND PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS AND
PART OF THE SE 1/4 OF SEC. 32 AND PART OF THE SW 1/4 OF SEC. 33, TWP. 43 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
51+55.68	20.35' Lt.	1,998,679.401	957,784.408
120+15.48	℄	1,998,503.039	957,316.937
120+49.85	82.46' Lt.	1,998,550.466	957,241.015
121+38.34	106.76' Rt.	1,998,603.417	957,442.895
121+78.54	74.57' Lt.	1,998,678.834	957,273.221
121+85.98	22.92' Rt.	1,998,665.923	957,370.146
121+87.50	31.65' Lt.	1,998,678.822	957,317.096
122+00.37	75.10' Lt.	1,998,700.825	957,277.402
122+11.31	76.68' Rt.	1,998,678.792	957,427.976
122+64.05	111.60' Rt.	1,998,720.627	957,473.532
122+73.25	104.48' Rt.	1,998,730.924	957,468.714
123+01.31	82.40' Rt.	1,998,762.636	957,453.876
124+41.00	246.83' Rt.	1,998,845.251	957,647.758
125+02.43	℄	1,998,976.030	957,430.316
125+26.56	288.94' Rt.	1,998,906.392	957,711.674
125+35.33	81.64' Rt.	1,998,980.857	957,518.038
126+37.32	81.32' Rt.	1,999,073.934	957,551.399
126+93.50	80.96' Rt.	1,999,124.627	957,571.147

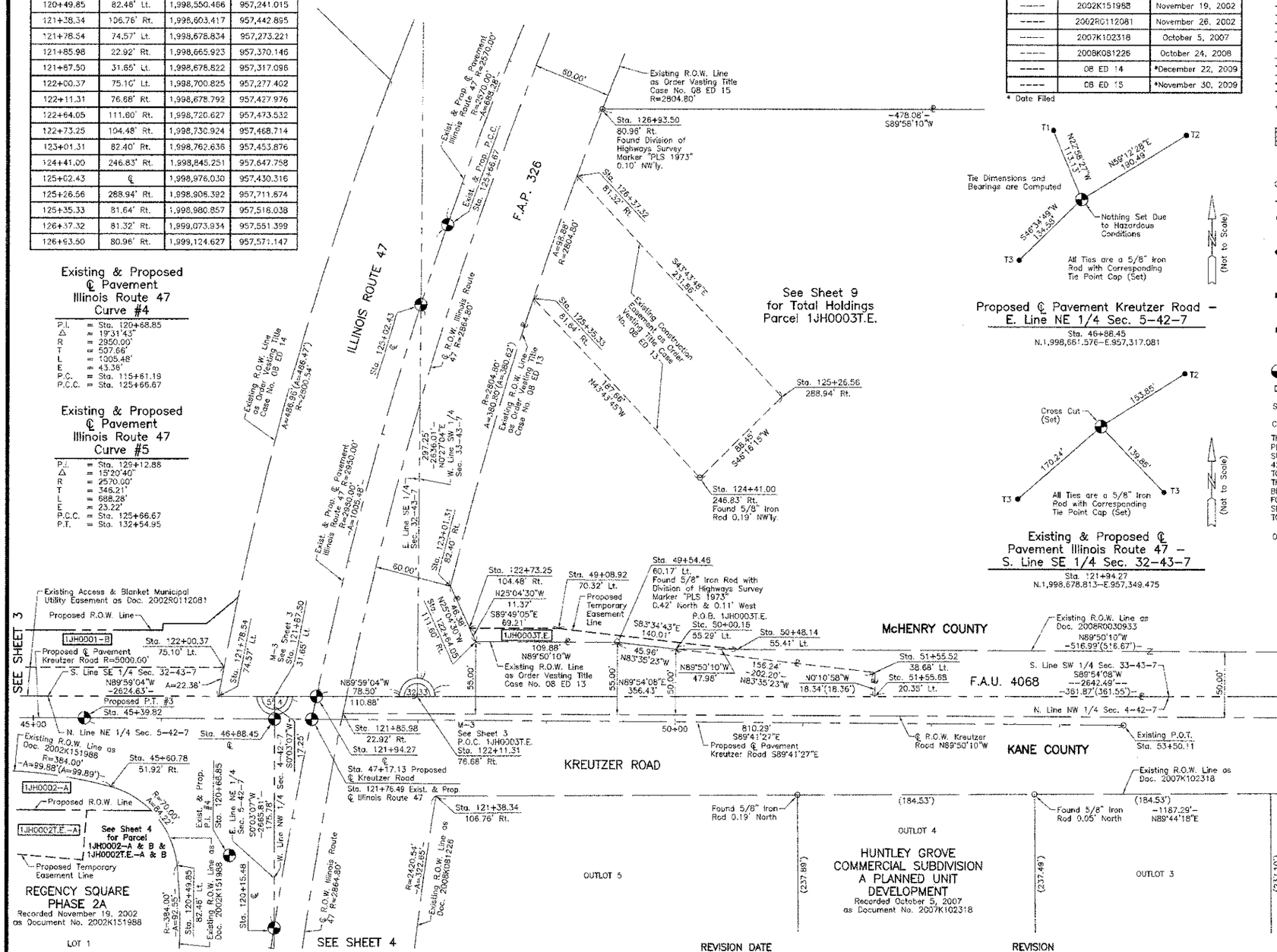
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JH0003T.E.	Harris Bank, N.A., as Trustee under Trust Agreement dated March 1, 1990 known as Trust No. 11-4039	9.989	N/A	N/A	9.989	0.032	Grading	18-33-352-009 18-33-352-011	

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JH0003	2008R0030933	May 29, 2008
1JH0003	08 ED 13	*December 22, 2009
-----	2002K151988	November 19, 2002
-----	2002R0112081	November 26, 2002
-----	2007K102318	October 5, 2007
-----	2008K081226	October 24, 2008
-----	08 ED 14	*December 22, 2009
-----	08 ED 15	*November 30, 2009

* Date Filed

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #4
P.I. = Sta. 120+68.85
Δ = 19°31'43"
R = 2950.00'
T = 507.66'
L = 1005.48'
E = 43.36'
P.C. = Sta. 115+61.19
P.C.C. = Sta. 125+66.67

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #5
P.I. = Sta. 129+12.88
Δ = 15°20'40"
R = 2570.00'
T = 346.21'
L = 688.28'
E = 23.22'
P.C.C. = Sta. 125+66.67
P.T. = Sta. 132+54.95



Tie Dimensions and Bearings are Computed

Proposed ℄ Pavement Kreutzer Road – E. Line NE 1/4 Sec. 5-42-7
Sta. 46+88.45
N.1,998,661.576–E.957,317.081

Existing & Proposed ℄ Pavement Illinois Route 47 – S. Line SE 1/4 Sec. 32-43-7
Sta. 121+94.27
N.1,998,678.813–E.957,349.475

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 40' 80'
SCALE: 1"=40'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ 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 BETWEEN SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY AND SECTION 33, TOWNSHIP 43N., RANGE 7E., 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.

_____ 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.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
45+60.78	51.92' Rt.	1,998,610.345	957,189.131
49+08.92	70.32' Lt.	1,998,730.704	957,537.922
49+54.45	60.17' Lt.	1,998,720.313	957,583.412
50+00.16	55.29' Lt.	1,998,715.182	957,629.079
50+48.14	55.41' Lt.	1,998,715.045	957,677.057
51+55.52	38.68' Lt.	1,998,697.738	957,784.347

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.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV KANE & McHENRY COUNTY
PROJECT JOB NO. R-91-002-12
STATION 45+00 TO STATION 53+50.11
STATION 120+00 TO STATION 127+00
SCALE: 1"=40' SHEET 7 OF 10

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

ROUTE F.A.U. 4068 (KREUTZER ROAD) | SECTION 07-00031-00-PV | COUNTY KANE & McHENRY | JOB NO. R-91-002-12 | RECORDING: RECORDED ON | AS DOCUMENT NO.

REVISION DATE | REVISION | MADE BY

FILE NAME = ...\2473_PH_07.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 30.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 12/18/2012	DATE -	REVISED -

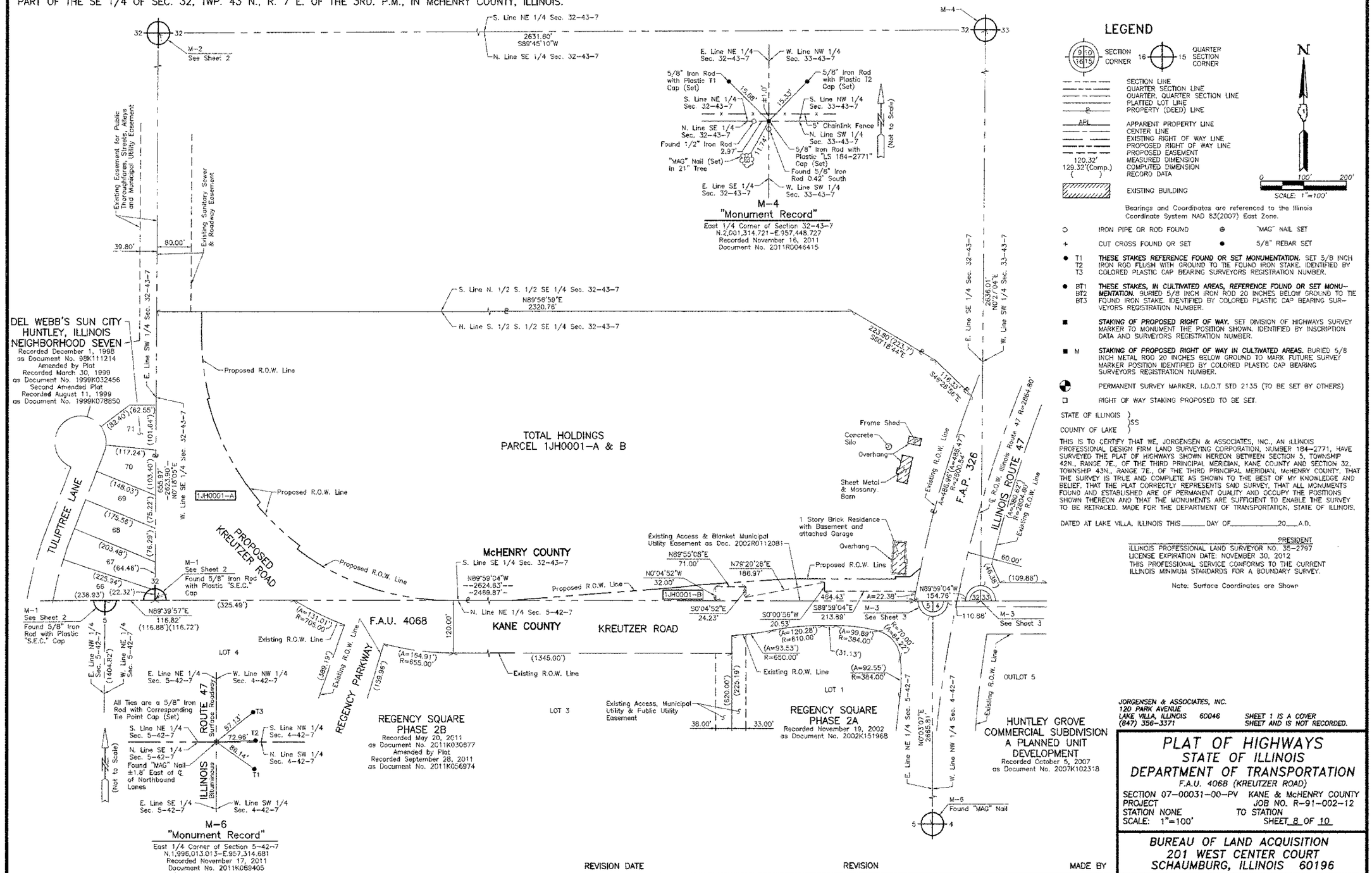
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 7 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	58
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS AND
PART OF THE SE 1/4 OF SEC. 32, TWP. 43 N., R. 7 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

0 100' 200'

SCALE: 1"=100'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ 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 3/8 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 BETWEEN SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY AND SECTION 32, TOWNSHIP 43N., RANGE 7E., 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.

_____
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.

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.U. 4068 (KREUTZER ROAD)
SECTION 07-00031-00-PV KANE & McHENRY COUNTY
PROJECT JOB NO. R-91-002-12
STATION NONE TO STATION
SCALE: 1"=100' SHEET 8 OF 10

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

REVISION DATE	REVISION	MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) SECTION 07-00031-00-PV COUNTY KANE & McHENRY JOB NO. R-91-002-12 RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = ...\2473_PH_08.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 35.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 10/18/2012	DATE -	REVISED -

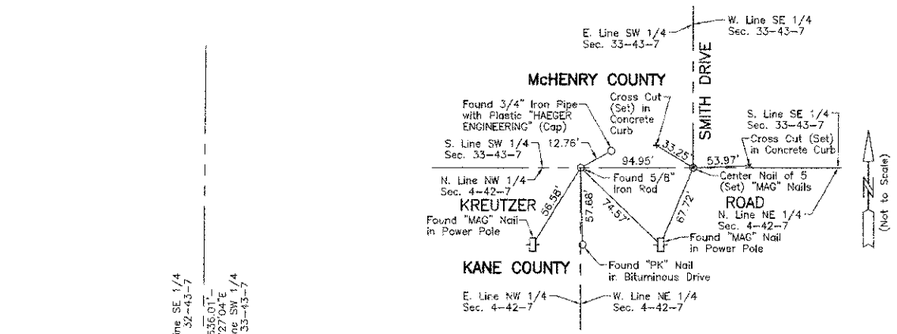
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 8 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	59
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

PART OF THE NW 1/4 OF SEC. 4, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS AND
PART OF THE SW 1/4 OF SEC. 33, TWP. 43 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



M-5
"Monument Record"
South 1/4 Corner of Section 33-43-7
N.1,998,683.306-E.960,070.462
Recorded November 16, 2011
Document No. 2011R0046414
North 1/4 Corner of Section 4-42-7
N.1,998,663.144-E.959,975.517
Recorded November 17, 2011
Document No. 2011K069404

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

N

0 60' 120'
SCALE: 1"=60'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- 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 BETWEEN SECTION 4, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY AND SECTION 33, TOWNSHIP 43N., RANGE 7E., 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.

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.

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.U. 4068 (KREUTZER ROAD)

SECTION 07-00031-00-PV KANE & McHENRY COUNTY
PROJECT JOB NO. R-91-002-12
STATION NONE TO STATION
SCALE: 1"=60' SHEET 9 OF 10

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

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) | SECTION 07-00031-00-PV | COUNTY KANE & McHENRY | JOB NO. R-91-002-12

RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = ...\2473_FH_PP.dgn	USER NAME = bas	DESIGNED -	REVISED -
		DRAWN - JORGENSEN & ASSOC.	REVISED -
	PLOT SCALE = 35.0000 ' / in.	CHECKED - CJ	REVISED -
	PLOT DATE = 12/18/2012	DATE -	REVISED -

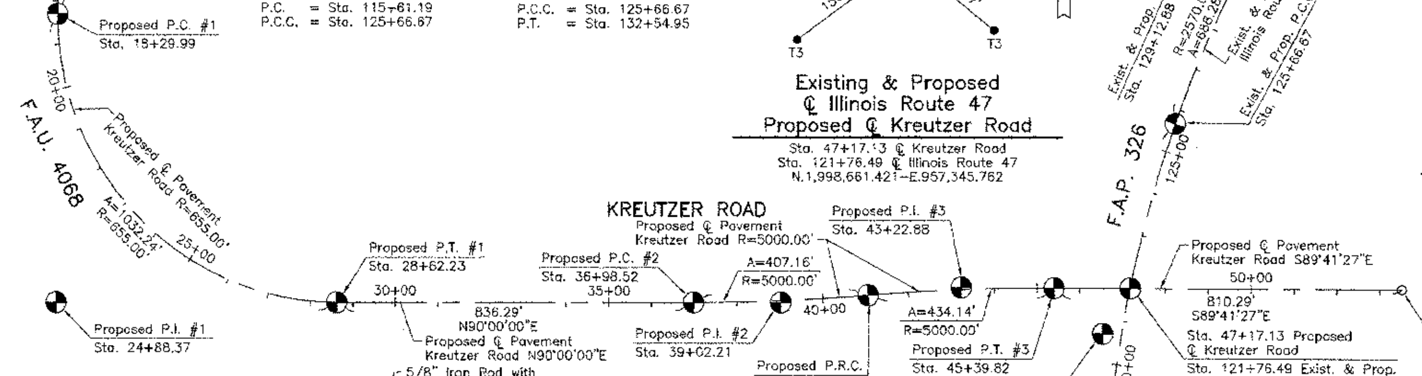
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: GRAPHIC | SHEET NO. 9 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	60
		CONTRACT NO. 63743		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT XXX------		

PART OF THE NW 1/4 OF SEC. 4 AND PART OF THE NE 1/4 OF SEC. 5, TWP. 42 N., R. 7 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS AND
PART OF THE SE 1/4 OF SEC. 32 AND PART OF THE SW 1/4 OF SEC. 33, TWP. 43 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



Proposed ℄ Pavement Kreutzer Road Curve #1

P.I.	= Sta. 24+88.37
Δ	= 90°17'41"
R	= 655.00'
T	= 658.38'
L	= 1032.24'
E	= 273.70'
P.C.	= Sta. 18+29.99
P.T.	= Sta. 28+62.23

Proposed ℄ Pavement Kreutzer Road Curve #2

P.I.	= Sta. 39+02.21
Δ	= 4°39'57"
R	= 5000.00'
T	= 203.69'
L	= 407.16'
E	= 4.15'
P.C.	= Sta. 36+98.52
P.R.C.	= Sta. 41+05.68

Proposed ℄ Pavement Kreutzer Road Curve #3

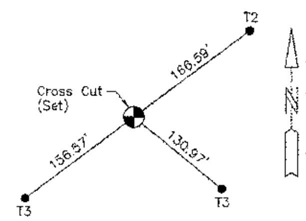
P.I.	= Sta. 43+22.88
Δ	= 4°58'29"
R	= 5000.00'
T	= 217.20'
L	= 434.14'
E	= 4.72'
P.R.C.	= Sta. 41+05.68
P.T.	= Sta. 45+39.82

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #4

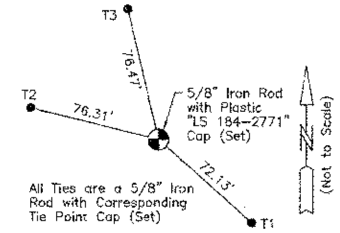
P.I.	= Sta. 120+68.85
Δ	= 19°31'43"
R	= 2950.00'
T	= 507.66'
L	= 1005.48'
E	= 43.36'
P.C.	= Sta. 115+61.19
P.C.C.	= Sta. 125+66.67

Existing & Proposed ℄ Pavement Illinois Route 47 Curve #5

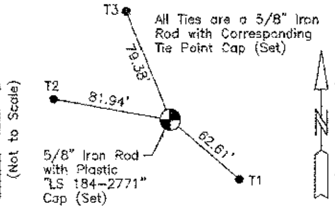
P.I.	= Sta. 129+12.88
Δ	= 15°20'40"
R	= 2570.00'
T	= 346.21'
L	= 688.28'
E	= 23.22'
P.C.C.	= Sta. 125+66.67
P.T.	= Sta. 132+54.95



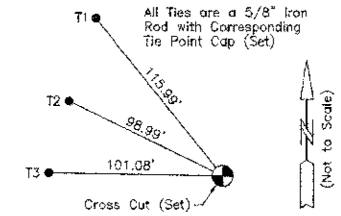
Existing & Proposed ℄ Illinois Route 47 Proposed ℄ Kreutzer Road
Sta. 47+17.13 ℄ Kreutzer Road
Sta. 121+76.49 ℄ Illinois Route 47
N.1,998,661.421–E.957,345.762



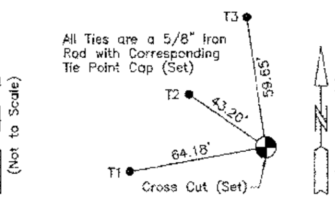
Existing & Proposed P.T. #5 Illinois Route 47
Sta. 132+54.95
N.1,999,647.556–E.957,763.961



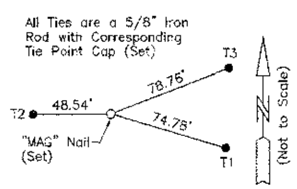
Existing P.O.T. Illinois Route 47
Sta. 134+55.30
N.1,999,812.072–E.957,878.306



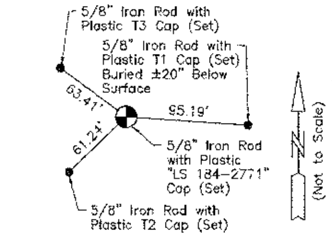
Existing & Proposed P.C.C. Illinois Route 47
Sta. 125+66.67
N.1,999,036.828–E.957,451.052



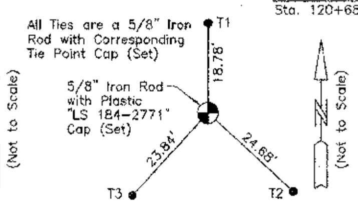
Existing & Proposed P.I. #5 Illinois Route 47
Sta. 129+12.88
N.1,999,363.268–E.957,566.370



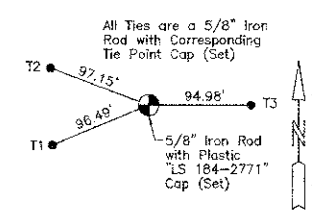
Existing P.O.T. Kreutzer Road
Sta. 9+00.00
N.2,000,217.662–E.954,841.554



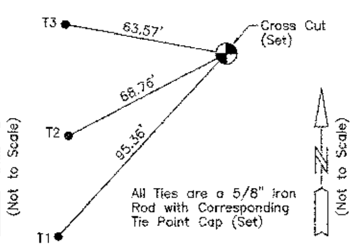
Proposed P.C. #1 Kreutzer Road
Sta. 18+29.99
N.1,999,287.681–E.954,836.772



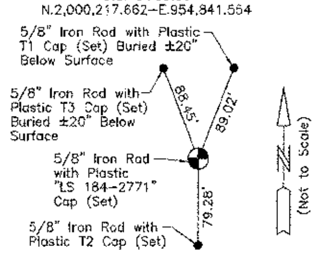
Proposed P.I. #1 Kreutzer Road
Sta. 24+88.37
N.1,998,629.313–E.954,833.386



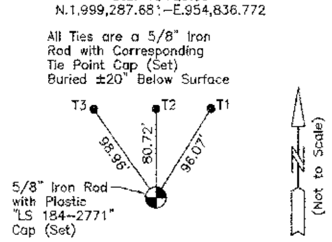
Existing & Proposed P.C. #4 Illinois Route 47
Sta. 115+61.19
N.1,998,050.492–E.957,282.598



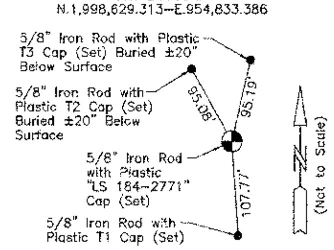
Existing & Proposed P.I. #4 Illinois Route 47
Sta. 120+68.85
N.1,998,558.154–E.957,281.956



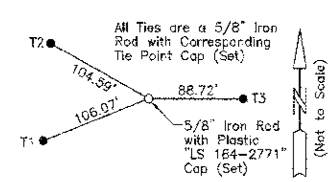
Proposed P.T. #1 Kreutzer Road
Sta. 28+62.23
N.1,998,629.313–E.955,491.763



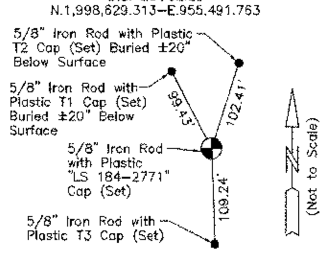
Proposed P.C. #2 Kreutzer Road
Sta. 36+98.52
N.1,998,629.313–E.956,328.048



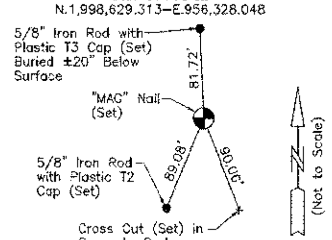
Proposed P.I. #2 Kreutzer Road
Sta. 39+02.21
N.1,998,629.313–E.956,531.741



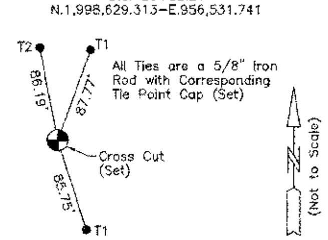
Existing P.O.T. Illinois Route 47
Sta. 110+00.00
N.1,997,489.306–E.957,283.307



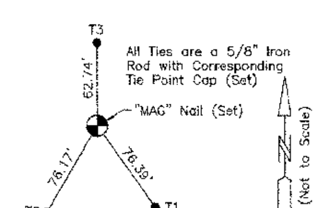
Proposed P.R.C. Kreutzer Road
Sta. 41+05.68
N.1,998,645.882–E.956,734.760



Proposed P.I. #3 Kreutzer Road
Sta. 43+22.88
N.1,998,663.550–E.956,951.244



Proposed P.T. #3 Kreutzer Road
Sta. 45+39.82
N.1,998,662.378–E.957,168.446

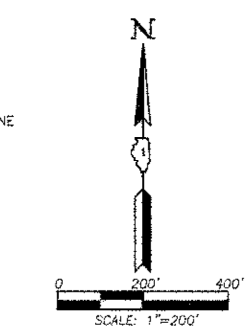


Existing P.O.T. Kreutzer Road
Sta. 53+50.11
N.1,998,658.006–E.957,978.724

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



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ 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 BETWEEN SECTION 5, TOWNSHIP 42N., RANGE 7E., OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY AND SECTION 33, TOWNSHIP 43N., RANGE 7E., 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.

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.

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.U. 4068 (KREUTZER ROAD)
SECTION 07–00031–00–PV — KANE & McHENRY COUNTY
PROJECT — JOB NO. R–91–002–12
STATION 9+00.00 TO STATION 53+50.11
STATION 110+00.00 TO STATION 134+55.30
SCALE: 1"=200' — SHEET 10 OF 10

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

REVISION DATE — REVISION — MADE BY

ROUTE F.A.U. 4068 (KREUTZER ROAD) — SECTION 07–00031–00–PV — COUNTY KANE & McHENRY — JOB NO. R–91–002–12 — RECORDING: RECORDED ON — AS DOCUMENT NO.

LEGEND

(XXX.XX) EXISTING PAVEMENT ELEVATION

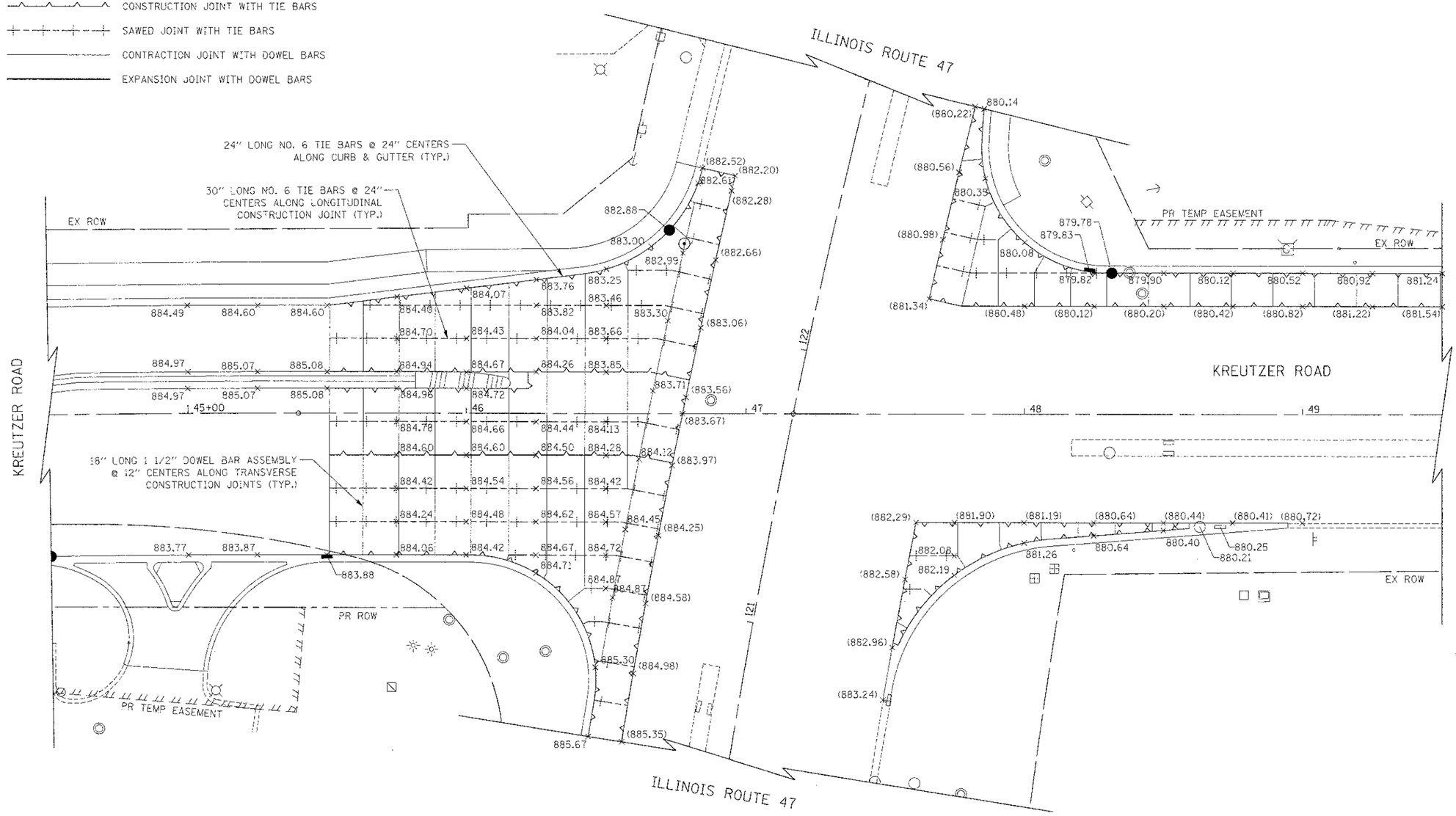
XXX.XX PROPOSED PAVEMENT ELEVATION

CONSTRUCTION JOINT WITH TIE BARS

SAWED JOINT WITH TIE BARS

CONTRACTION JOINT WITH DOWEL BARS

EXPANSION JOINT WITH DOWEL BARS



NOTES

1. TRANSVERSE DOWELED JOINTS SHALL BE SPACED AT 15' O.C. (TYP.) IN THE PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED) UNLESS OTHERWISE NOTED. JOINT LAYOUT MAY BE MODIFIED (± 3' PER STANDARD 420101 & 420106) UPON APPROVAL BY THE ENGINEER TO INCORPORATE CHANGES DURING CONSTRUCTION.
2. REINFORCING STEEL IS NOT SHOWN ALONG EVERY JOINT ON THE PLAN, BUT IS INTENDED TO BE PLACED ALONG EACH JOINT AS NOTED.
3. REFERENCE IDOT STANDARD DETAILS 420001, 420101, 420106, 420111, AND 606001.

20 0 20
SCALE IN FEET

FILE NAME = ...\2473_ING_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING AND GRADING PLAN

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

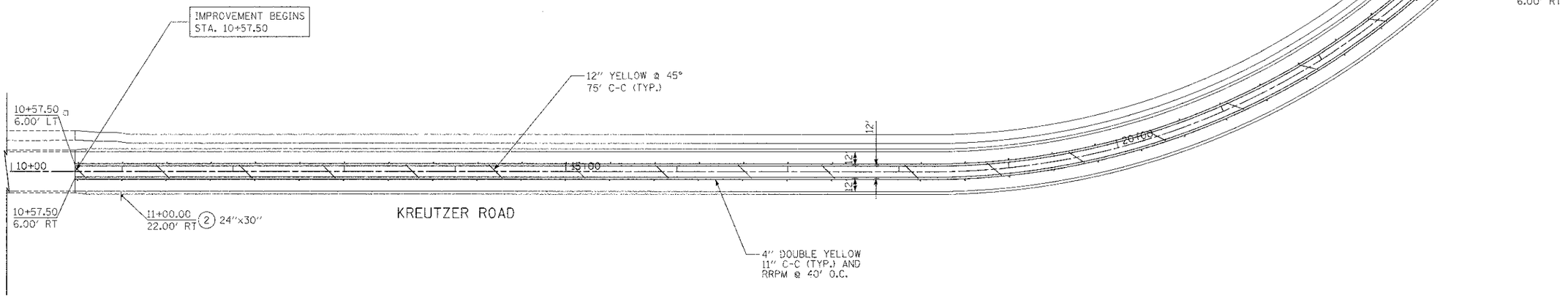
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	62
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

TRAFFIC SIGN LEGEND

1. STOP — R1-1, 30"x30"
2. SPEED LIMIT 35 — R2-1, SEE PLAN FOR SIZE
3. ONLY — R3-5L, 24"x30"
4. ONE WAY — R6-2R, 30"x36"
5. R4-7, 24"x30"
6. W4-2R, 36"x36"
7. RIGHT LANE MUST TURN RIGHT — R3-7, 30"x30"
8. STOP HERE TO — R1-5B, 36"x36"
9. CM4-3 (RED), 24"x24"
10. ROAD ENDS — R11-1100, 36"x30"

RECESSED PAVEMENT MARKINGS LEGEND

- ◁ ONE-WAY CRYSTAL
- ◂ ONE-WAY AMBER
- ◆ TWO-WAY AMBER



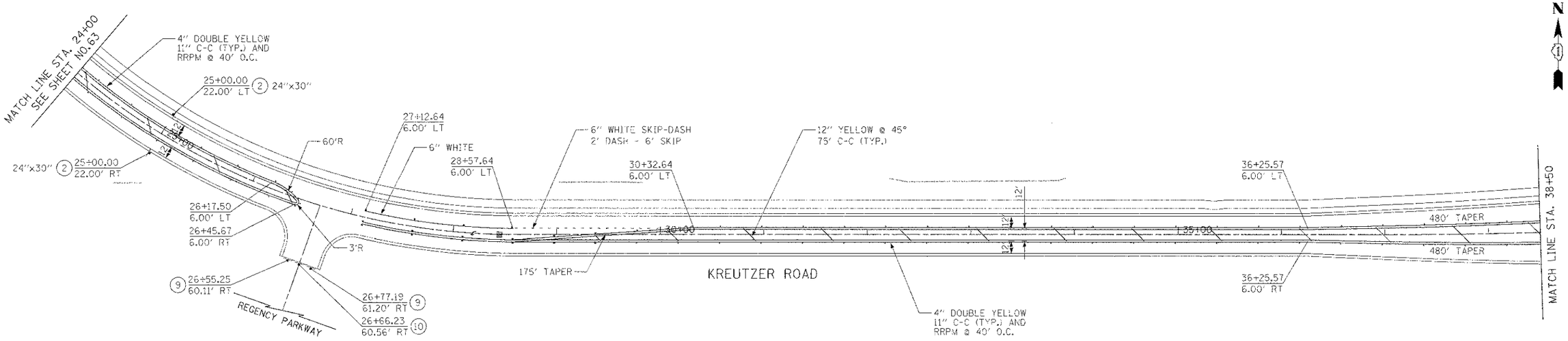
NOTES:

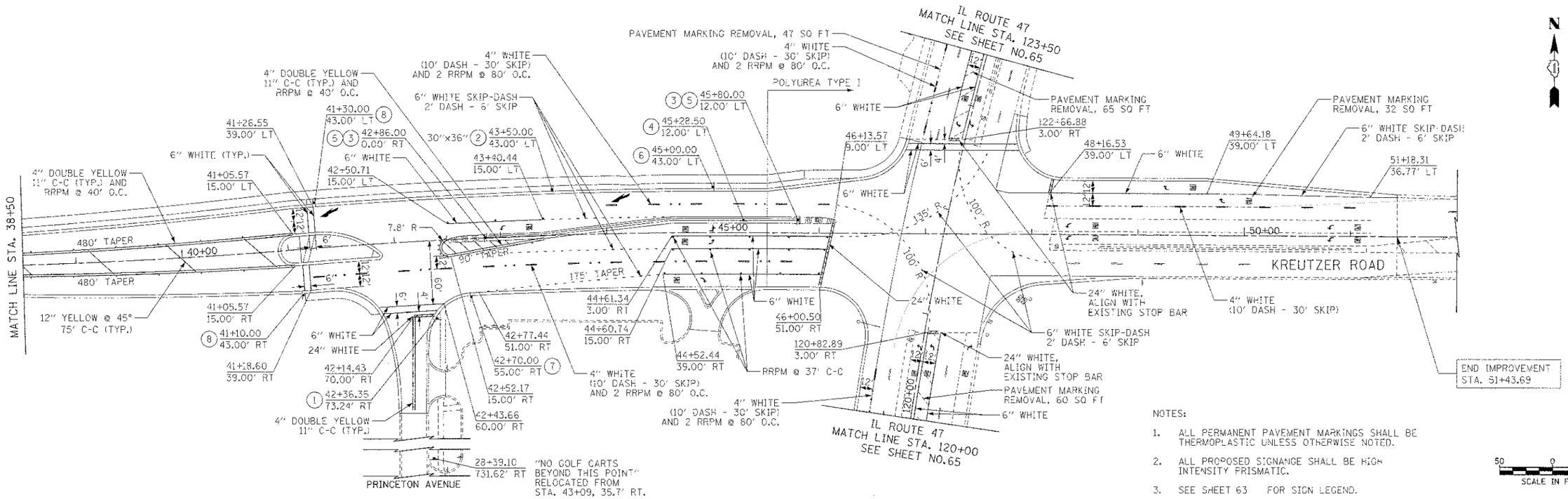
1. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. ALL PROPOSED SIGNANGE SHALL BE HIGH INTENSITY PRISMATIC.

50 0 50
SCALE IN FEET

FILE NAME = ...\2473_PMK_01.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING AND SIGNING PLAN**
		DRAWN - BAS	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -		SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. 10+57 TO STA. 24+00
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	63
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		





NOTES:

1. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. ALL PROPOSED SIGNAGE SHALL BE HIGH INTENSITY PRISMATIC.
3. SEE SHEET 63 FOR SIGN LEGEND.

50 0 50
SCALE IN FEET

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		DRAWN - BAS	REVISED -
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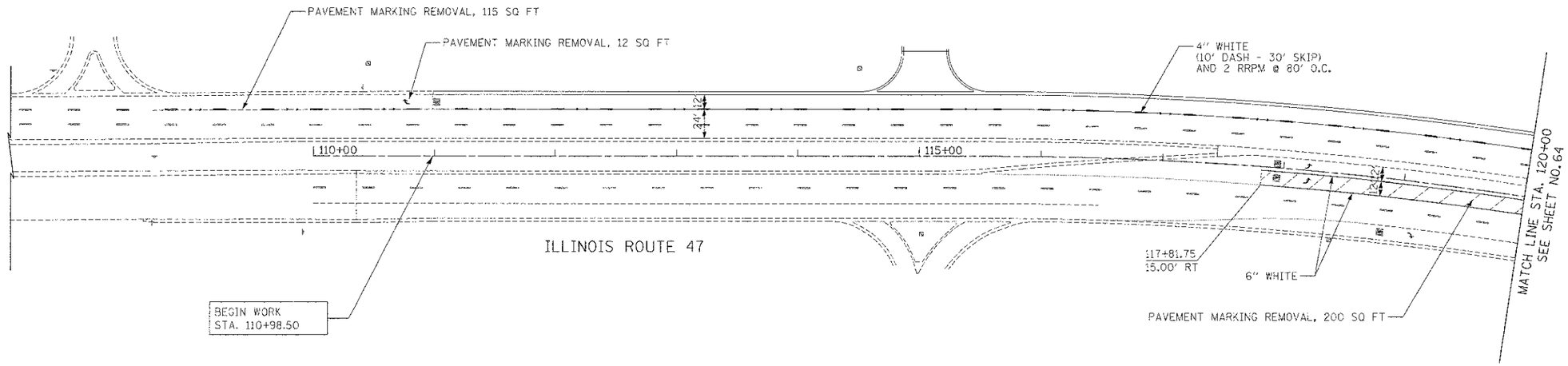
	PLOT DATE = 11/14/2012	DATE - 10/22/12	REVISED -

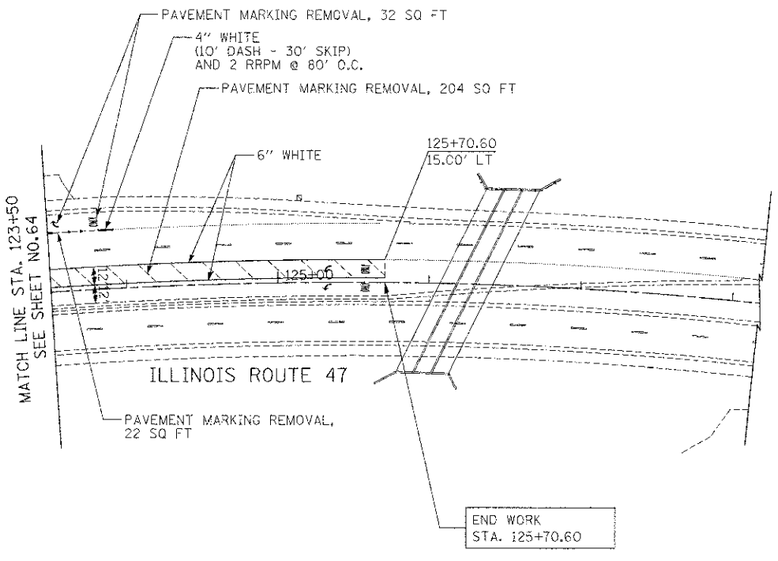
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. 24+00 TO STA. 51+44

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	64
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		





NOTES:

1. ALL PERMANENT PAVEMENT MARKINGS SHALL BE POLYUREA TYPE I UNLESS OTHERWISE NOTED.
2. ALL PROPOSED SIGNANGE SHALL BE HIGH INTENSITY PRISMATIC.
3. SEE SHEET 63 FOR SIGN LEGEND.

50 0 50
SCALE IN FEET

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		DRAWN - BAS	REVISED -
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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED

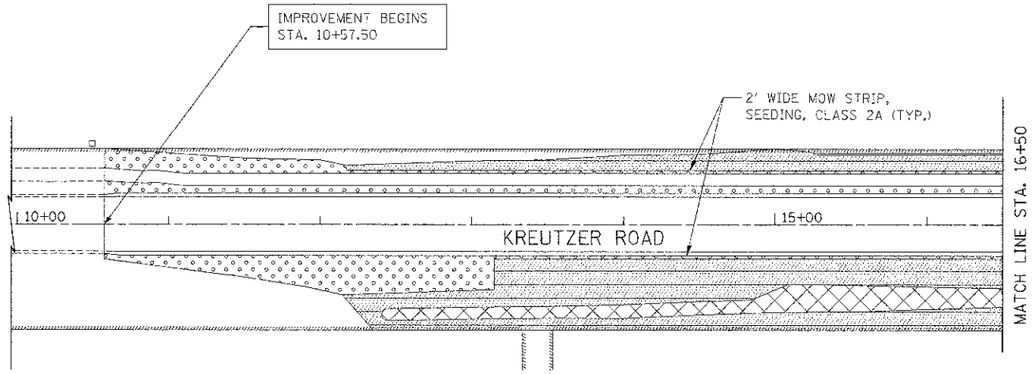
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. 110+98 STA. 125+71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	65
		CONTRACT NO. 63743		

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



PLANTING DETAILS

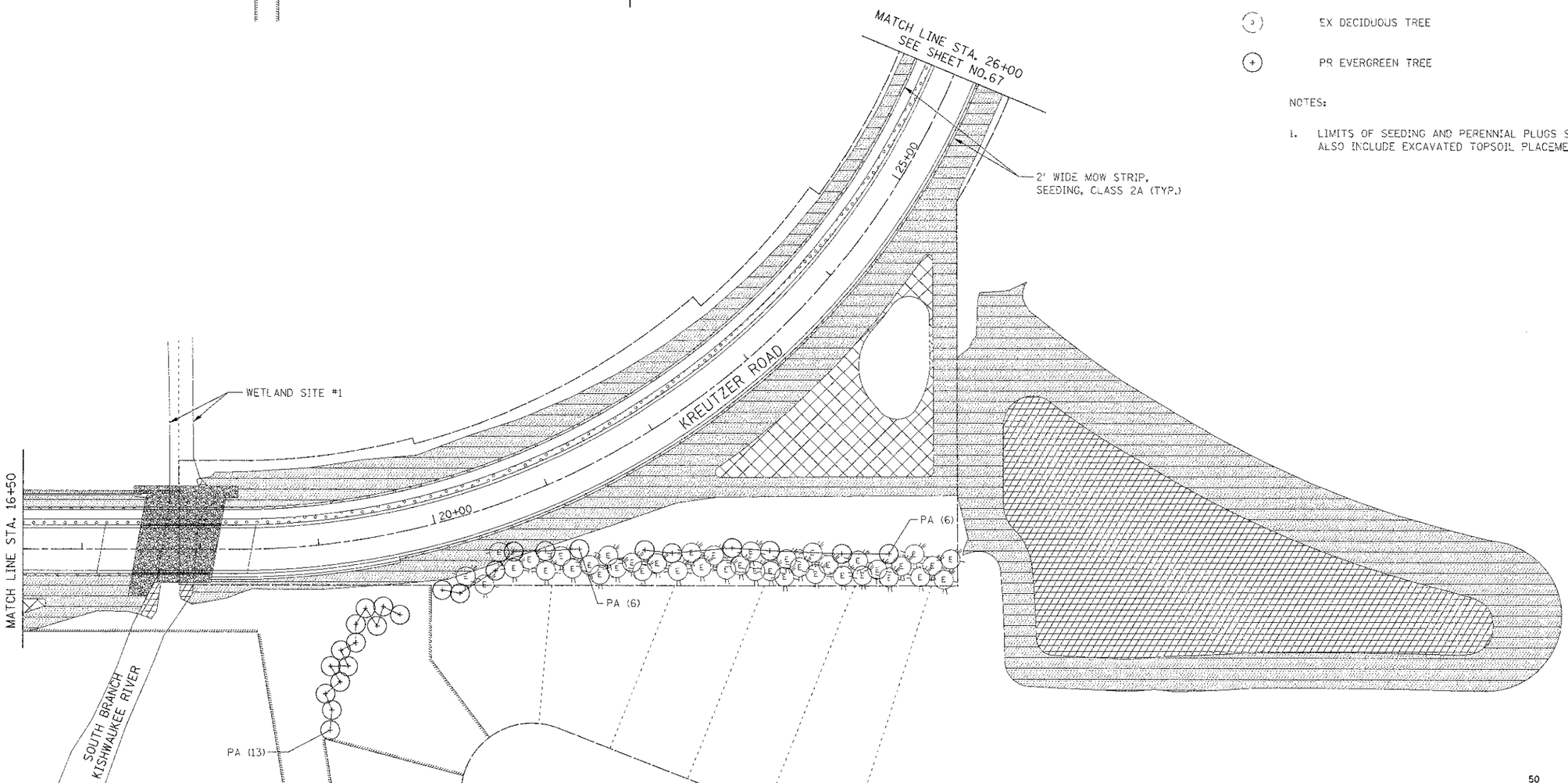
ITEM	ABBREVIATION	QUANTITY
PA	E-PICEA ABIES 5'	25

LEGEND

- SEEDING, CLASS 2A
- BUFFER MIX
  SEEDING, CLASS 4 (MODIFIED) AND
  SEEDING, CLASS 5 (MODIFIED)
- WETLAND AREA
  SEEDING, CLASS 4B (MODIFIED) AND
  SEEDING, CLASS 5B
- PERENNIALS, WETLAND TYPE,
  2" DIAMETER BY 4" DEEP PLUG - 42 UNITS (2' O.C.)
- STONE RIPRAP
  (SEE STRUCTURE PLANS FOR
  GRADATION AND PLACEMENT DETAILS)
- EX EVERGREEN TREE
- EX DECIDUOUS TREE
- PR EVERGREEN TREE

NOTES:

1. LIMITS OF SEEDING AND PERENNIAL PLUGS SHALL ALSO INCLUDE EXCAVATED TOPSOIL PLACEMENT, 6".



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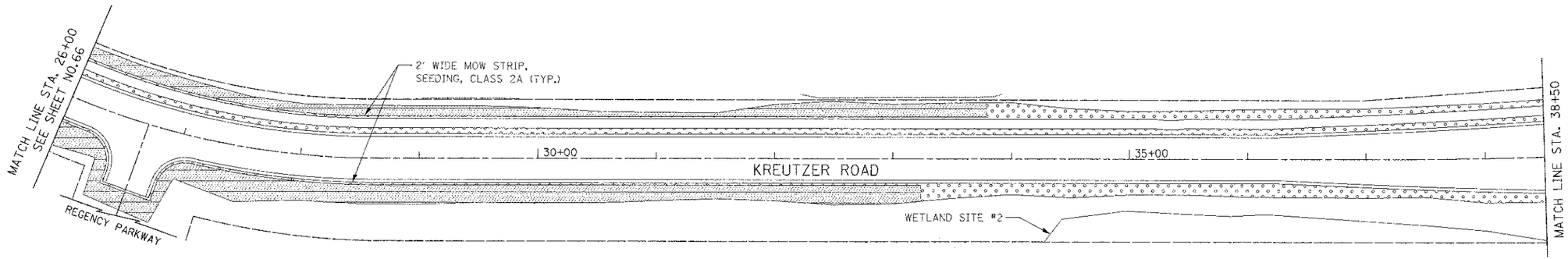
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. 10+57 TO STA. 26+00

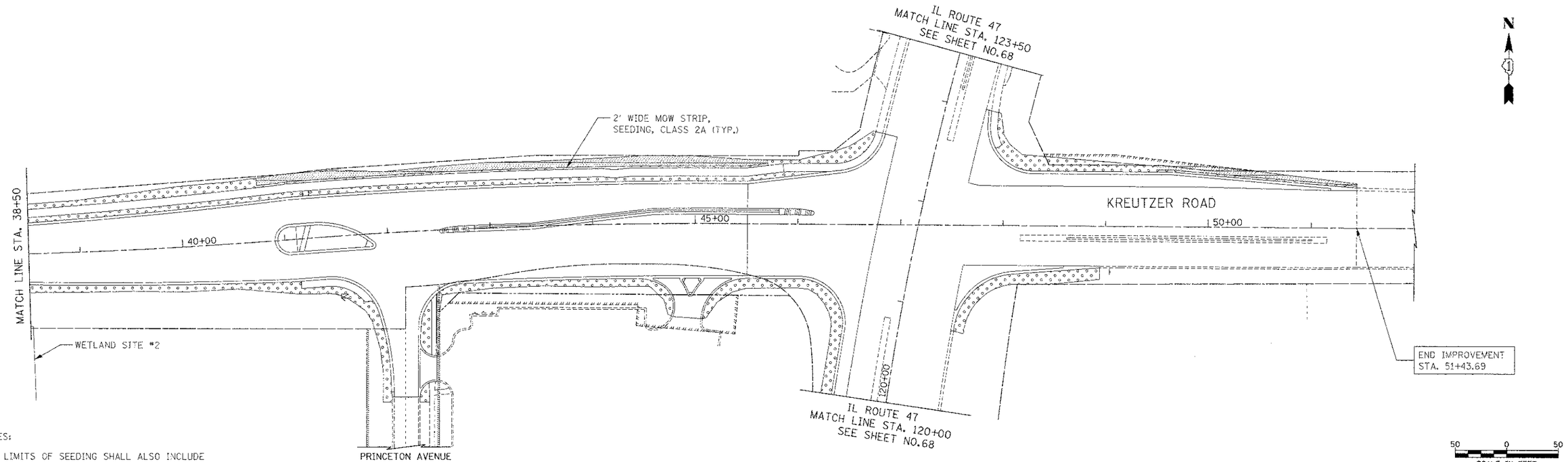
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	66
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		



LEGEND

SEEDING, CLASS 2A

BUFFER MIX
SEEDING, CLASS 4 (MODIFIED) AND
SEEDING, CLASS 5 (MODIFIED)



NOTES:

1. LIMITS OF SEEDING SHALL ALSO INCLUDE EXCAVATED TOPSOIL PLACEMENT, 6".

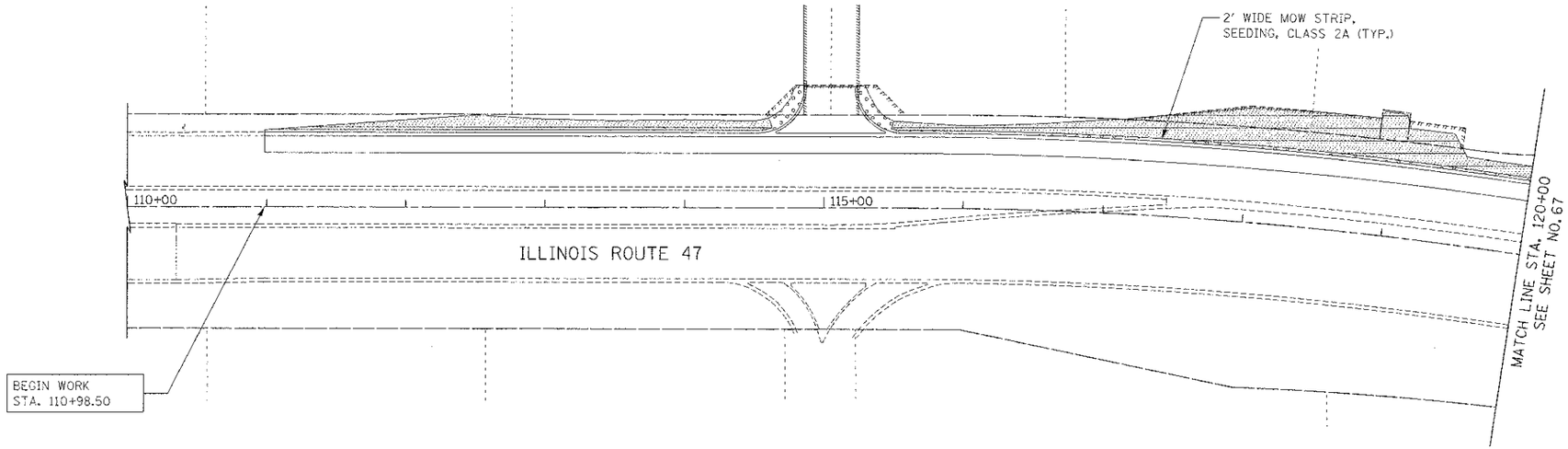
FILE NAME = ...\14-Landscaping\2473.LSC.02.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 10/10/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. 26+00 TO STA. 51+44

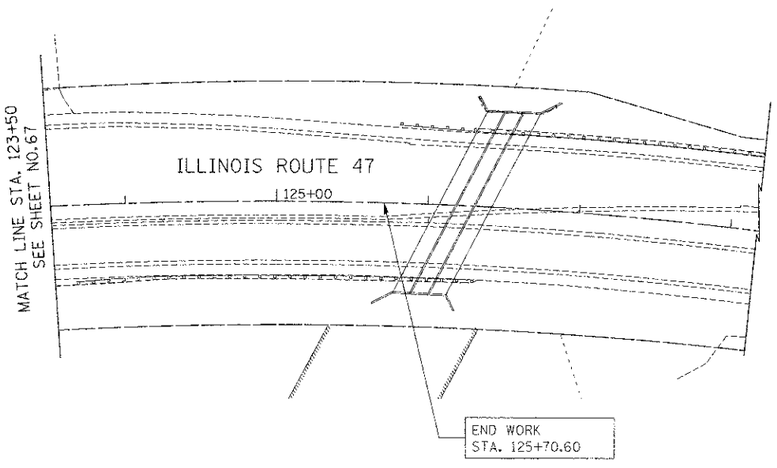
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	67
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		



LEGEND

SEEDING, CLASS 2A

BUFFER MIX
SEEDING, CLASS 4 (MODIFIED) AND
SEEDING, CLASS 5 (MODIFIED)



NOTES:

1. LIMITS OF SEEDING SHALL ALSO INCLUDE EXCAVATED TOPSOIL PLACEMENT, 6".

50 0 50
SCALE IN FEET

FILE NAME = ...\14-Landscaping\2473_LSC_03.dgn	USER NAME = bas	DESIGNED - BAS	REVISED -
		DRAWN - BAS	REVISED -
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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. 110+98 STA. 125+71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	68
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE L.E.D. AND 12" (300 mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OEPRATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

11. THE EXISTING SIGNAL POSTS AT THESE LOCATIONS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND REINSTALLED ON NEW FOUNDATIONS IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION.

12. THE EXISTING MAST ARM ASSEMBLIES AND POLES AT THESE LOCATIONS SHALL BE REMOVED FROM THE EXISTING FOUNDATIONS AND REINSTALLED ON NEW FOUNDATIONS IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION AT THE LOCATIONS MARKED ON THE PLANS.

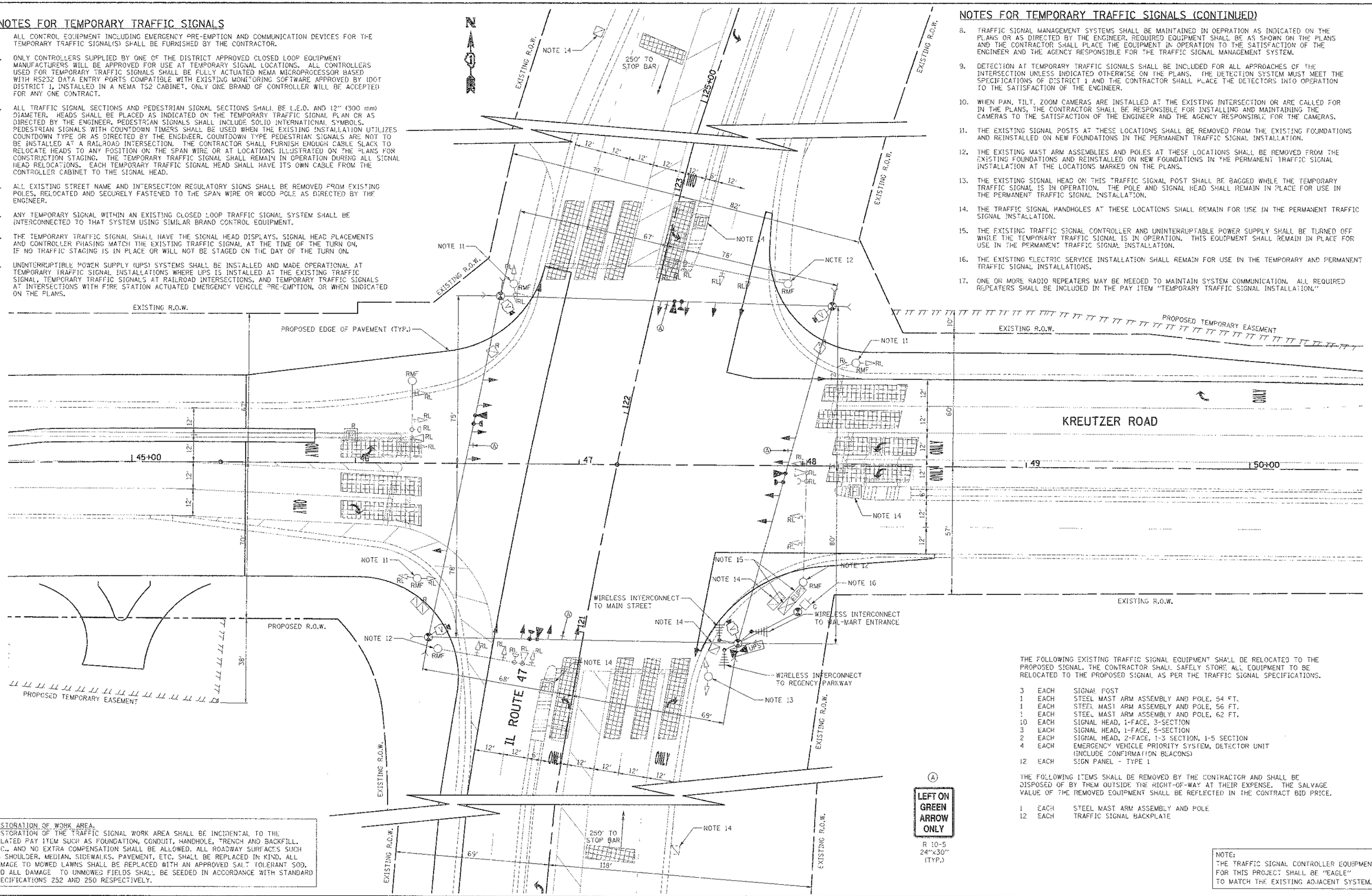
13. THE EXISTING SIGNAL HEAD ON THIS TRAFFIC SIGNAL POST SHALL BE BAGGED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION. THE POLE AND SIGNAL HEAD SHALL REMAIN IN PLACE FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION.

14. THE TRAFFIC SIGNAL HANDHOLES AT THESE LOCATIONS SHALL REMAIN FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION.

15. THE EXISTING TRAFFIC SIGNAL CONTROLLER AND UNINTERRUPTABLE POWER SUPPLY SHALL BE TURNED OFF WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION. THIS EQUIPMENT SHALL REMAIN IN PLACE FOR USE IN THE PERMANENT TRAFFIC SIGNAL INSTALLATION.

16. THE EXISTING ELECTRIC SERVICE INSTALLATION SHALL REMAIN FOR USE IN THE TEMPORARY AND PERMANENT TRAFFIC SIGNAL INSTALLATIONS.

17. ONE OR MORE RADIO REPEATERS MAY BE NEEDED TO MAINTAIN SYSTEM COMMUNICATION. ALL REQUIRED REPEATERS SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."



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

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED SIGNAL. THE CONTRACTOR SHALL SAFELY STORE ALL EQUIPMENT TO BE RELOCATED TO THE PROPOSED SIGNAL AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

3	EACH	SIGNAL POST
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.
10	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
4	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT (INCLUDE CONFIRMATION BEACONS)
12	EACH	SIGN PANEL - TYPE 1

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	STEEL MAST ARM ASSEMBLY AND POLE
12	EACH	TRAFFIC SIGNAL BACKPLATE

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

P.U. NAME = ...\2673_15_01_Temp_Signal_Tan.dgn	USER NAME = otb	DESIGNED - BRD	REVISED -
		DRAWN - BRD	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 10/3/2013	DATE - 10/22/12	REVISED -

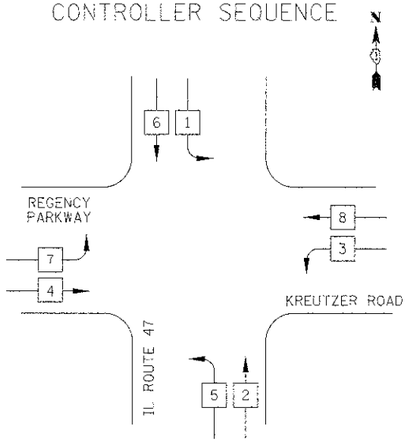
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
IL ROUTE 47 AT KREUTZER ROAD

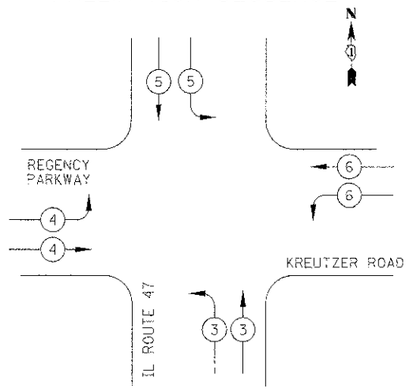
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	69
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX----		

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

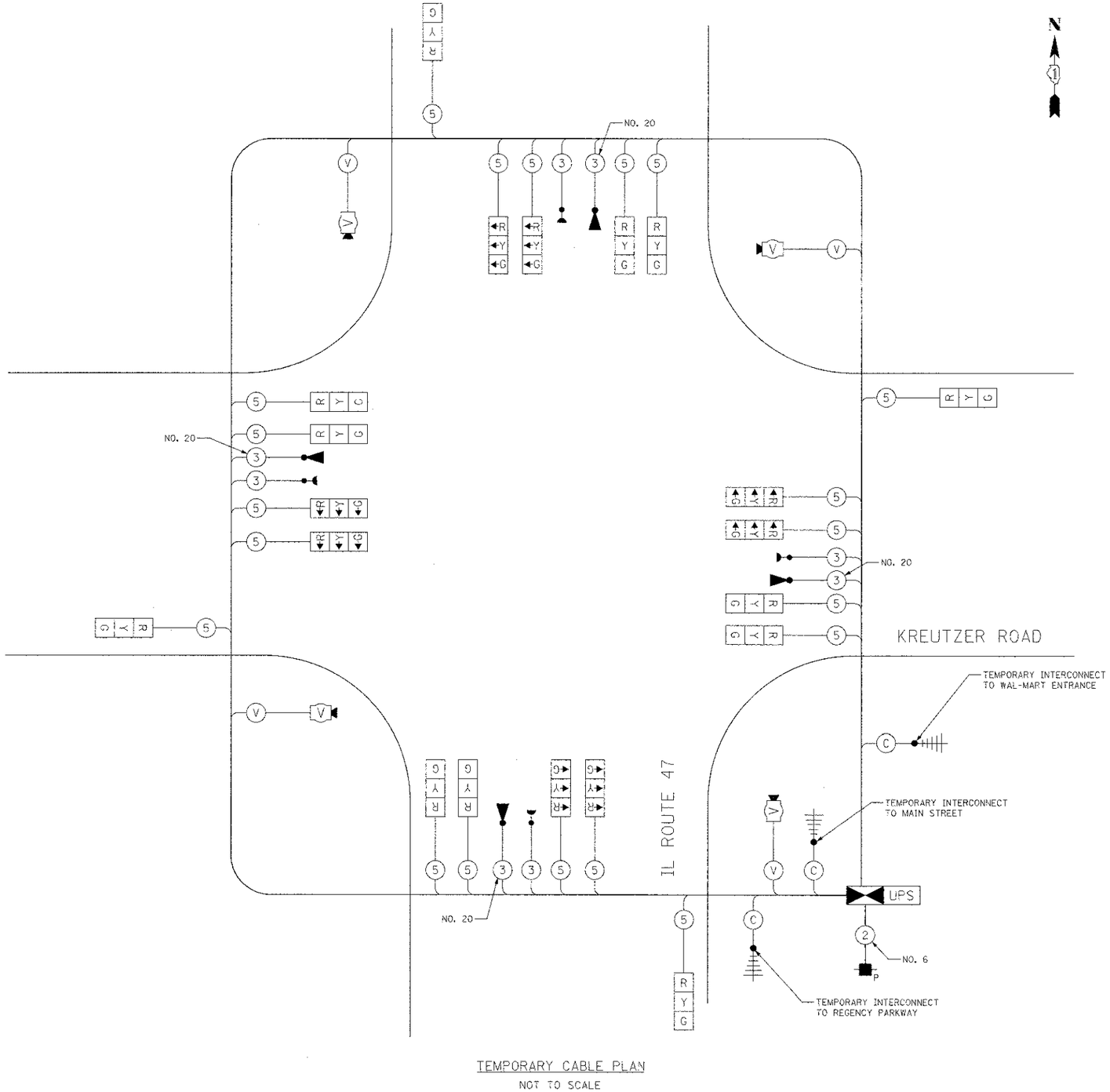
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
VIDEO SYSTEM	1		150	1.00	150
CONTROLLER	1		100	1.00	100
ARROW			12	0.10	
				TOTAL =	620

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: LISA COOK
PHONE: (847) 477-5204
COMPANY: COM ED



TEMPORARY CABLE PLAN
NOT TO SCALE

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

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		DRAWN - BRD	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
	PLOT DATE = 12/18/2012	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 47 AT KREUTZER ROAD

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

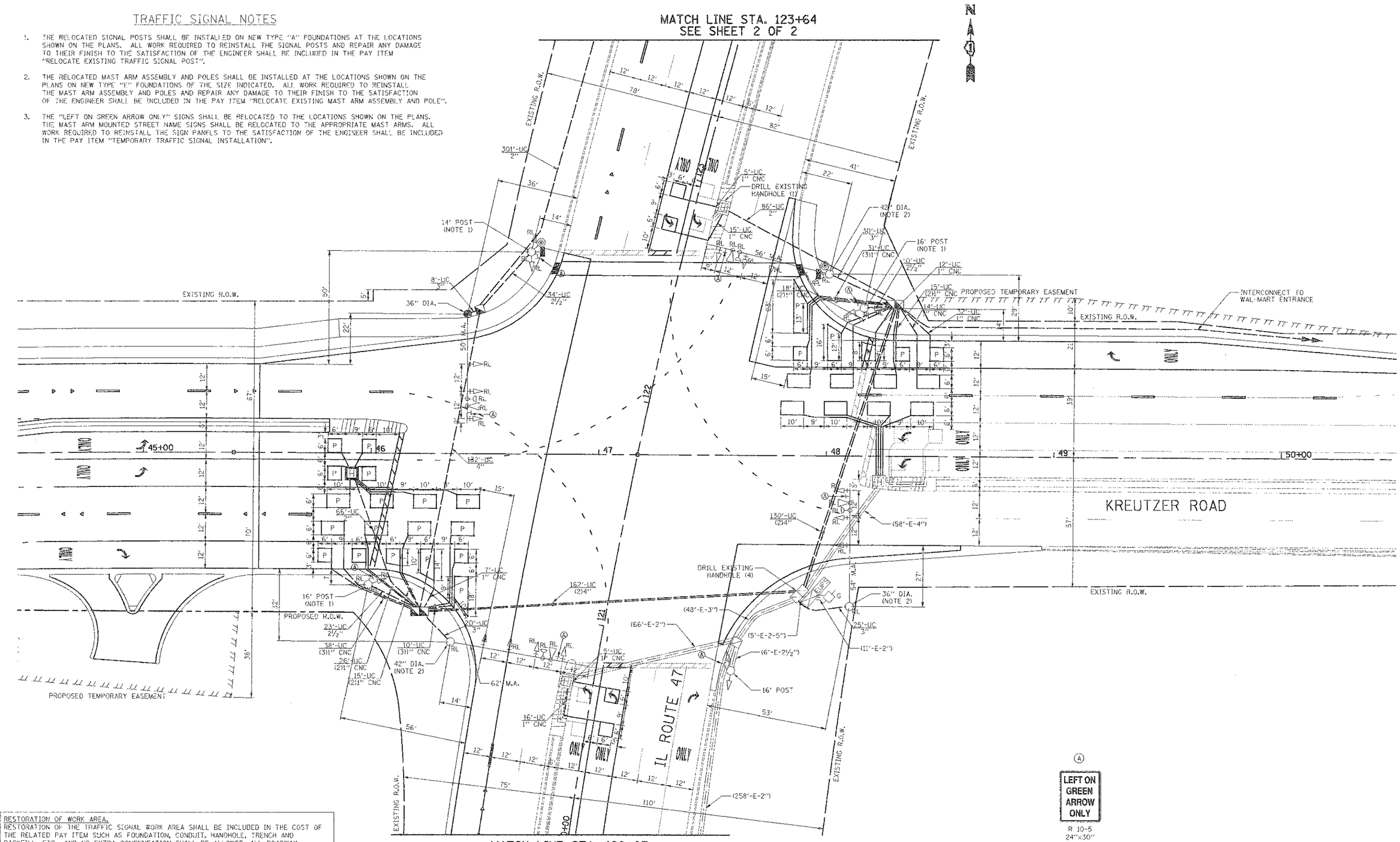
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	70
			CONTRACT NO. 63743	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		

TRAFFIC SIGNAL NOTES

1. THE RELOCATED SIGNAL POSTS SHALL BE INSTALLED ON NEW TYPE "A" FOUNDATIONS AT THE LOCATIONS SHOWN ON THE PLANS. ALL WORK REQUIRED TO REINSTALL THE SIGNAL POSTS AND REPAIR ANY DAMAGE TO THEIR FINISH TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "RELOCATE EXISTING TRAFFIC SIGNAL POST".

2. THE RELOCATED MAST ARM ASSEMBLY AND POLES SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS ON NEW TYPE "E" FOUNDATIONS OF THE SIZE INDICATED. ALL WORK REQUIRED TO REINSTALL THE MAST ARM ASSEMBLY AND POLES AND REPAIR ANY DAMAGE TO THEIR FINISH TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE".

3. THE "LEFT ON GREEN ARROW ONLY" SIGNS SHALL BE RELOCATED TO THE LOCATIONS SHOWN ON THE PLANS. THE MAST ARM MOUNTED STREET NAME SIGNS SHALL BE RELOCATED TO THE APPROPRIATE MAST ARMS. ALL WORK REQUIRED TO REINSTALL THE SIGN PANELS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".



Ⓐ
LEFT ON GREEN ARROW ONLY
R 10-5
24"×30"
(TYP.)
SIGN PANEL
TYPE 1
(RELOCATED)
(NOTE 3)

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

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

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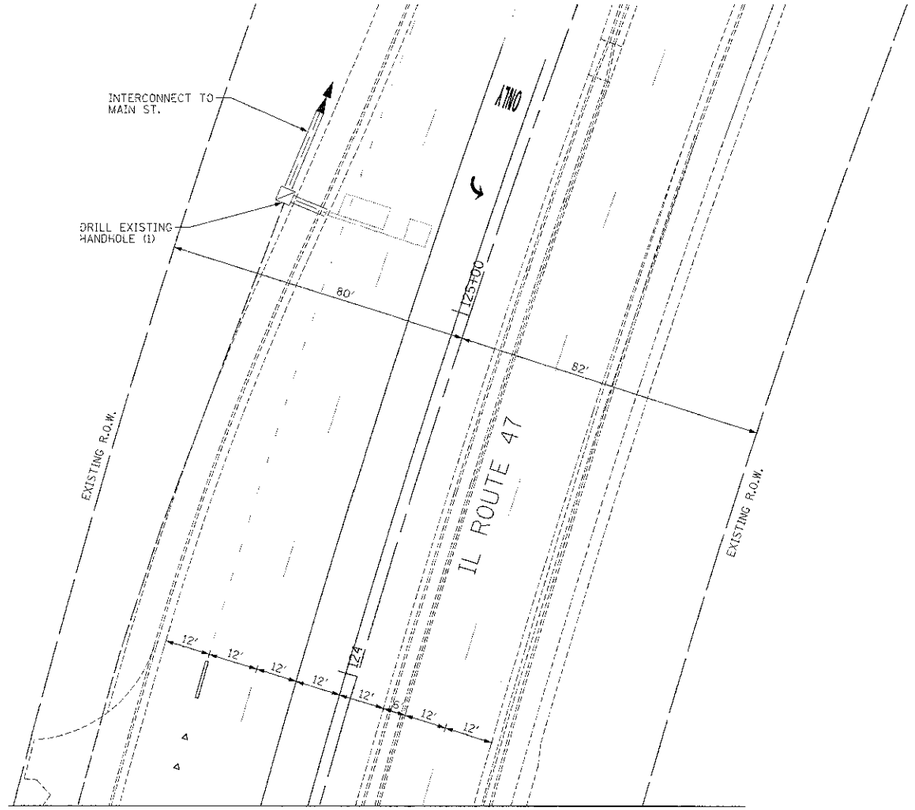
		DRAWN - BRD	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 1/3/2013	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 47 AT KREUTZER ROAD
SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

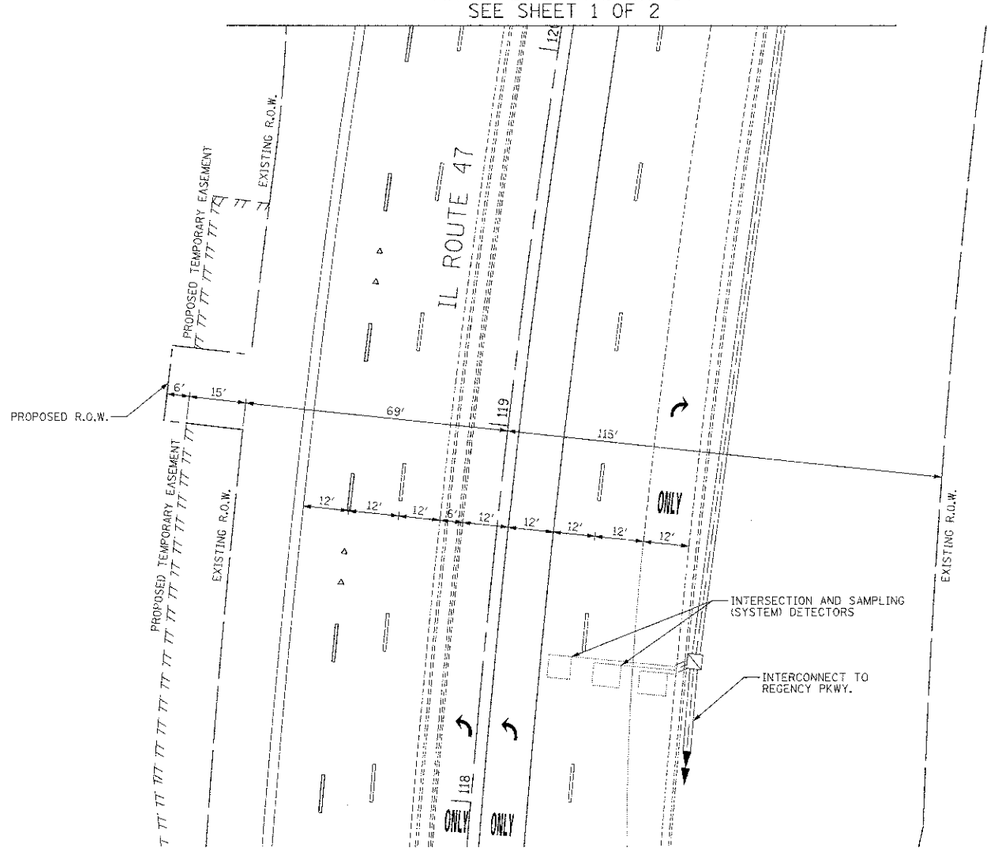
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	71

CONTRACT NO. 63743
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT XXX



MATCH LINE STA. 123+64
SEE SHEET 1 OF 2

MATCH LINE STA. 120+07
SEE SHEET 1 OF 2



N

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

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

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		DRAWN - BRD	REVISED -
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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

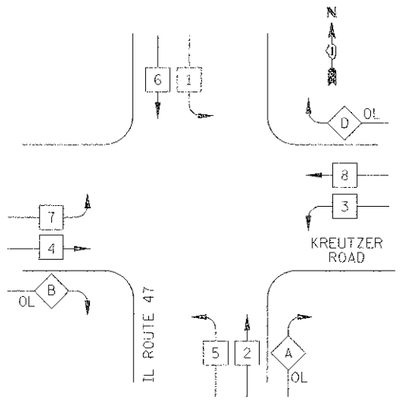
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 47 AT KREUTZER ROAD

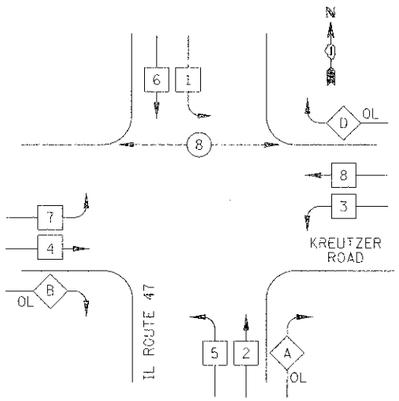
SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	72
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT XXX--------		

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



LEGEND

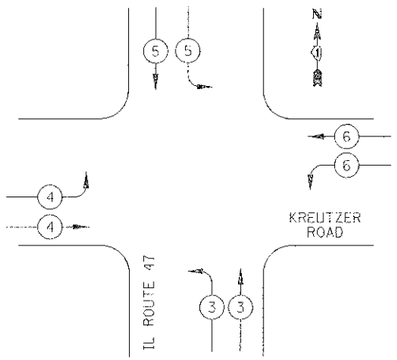
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
D	=	8	+	1

PHASE DESIGNATION DIAGRAM

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



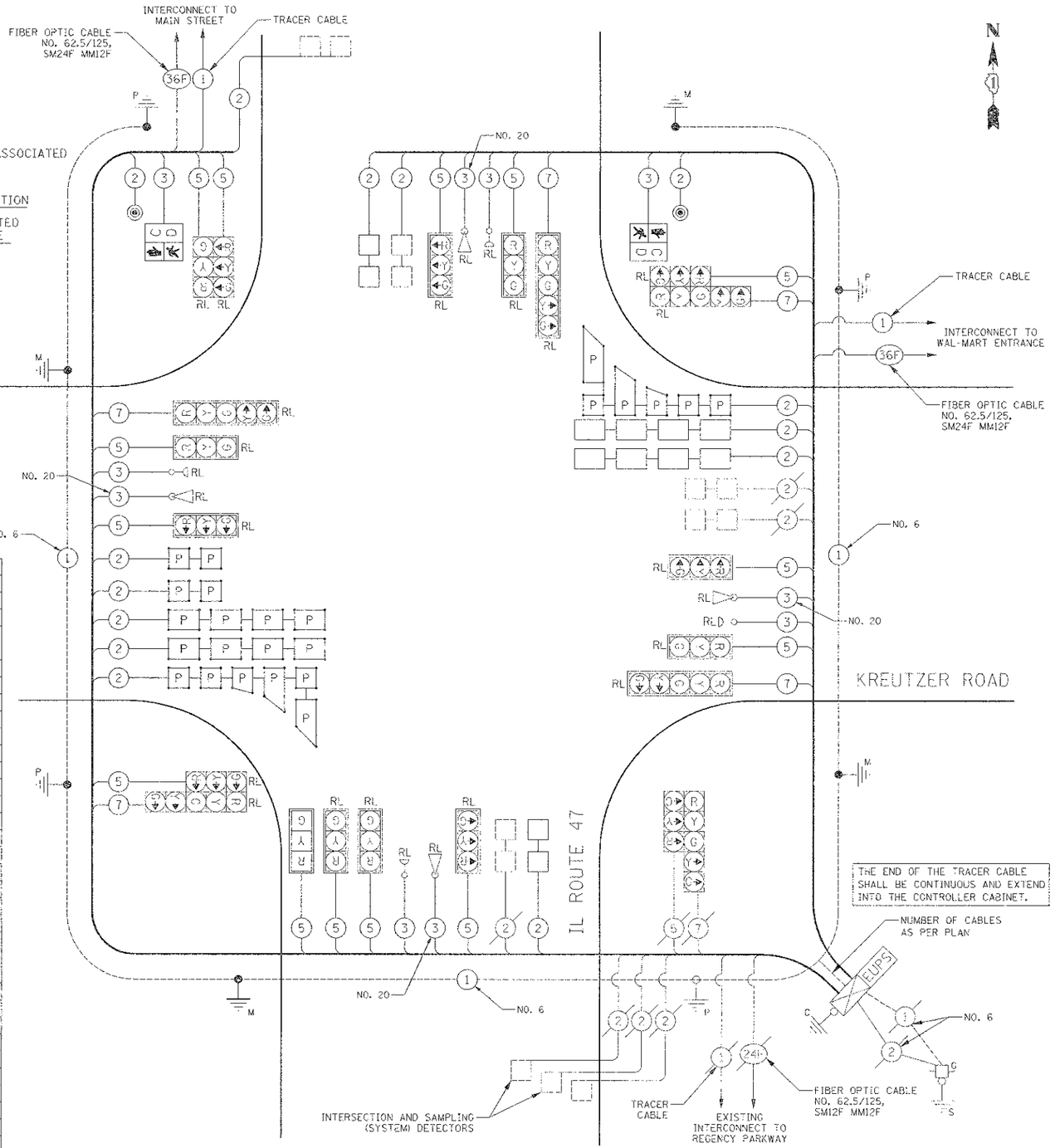
PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

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	179
(YELLOW)	21		25	0.25	131
(GREEN)	21		15	0.25	79
ARROW	12		12	0.10	14
PED. SIGNALS	2		25	1.00	50
CONTROLLER	1		100	1.00	100
				TOTAL =	553

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: LISA COCK
PHONE: (815) 477-5204
COMPANY: COM ED

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	453
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	67
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	83
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	716
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	588
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1700
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3928
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1160
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2212
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	983
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	656
PREFORMED DETECTOR LOOP	FOOT	986
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	15
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	3
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	923
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1098



CABLE PLAN
NOT TO SCALE

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

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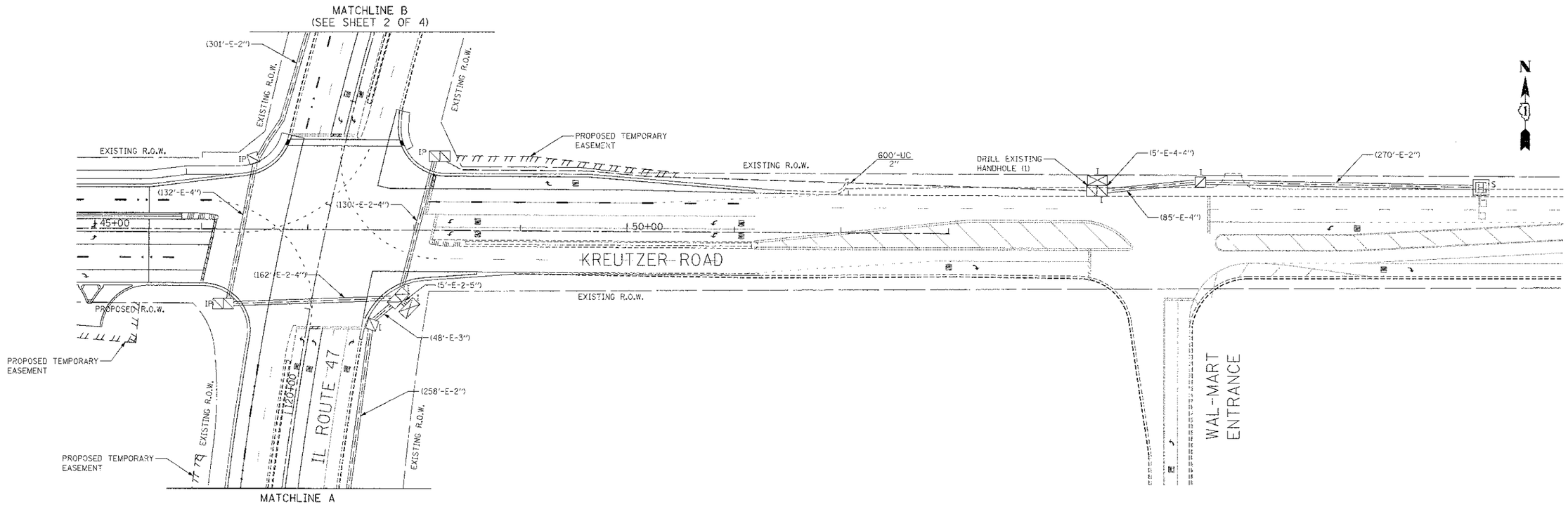
	PLOT DATE = 1/31/2013	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 47 AT KREUTZER ROAD

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-6031-00-PV	McHENRY	167	73
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		



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

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

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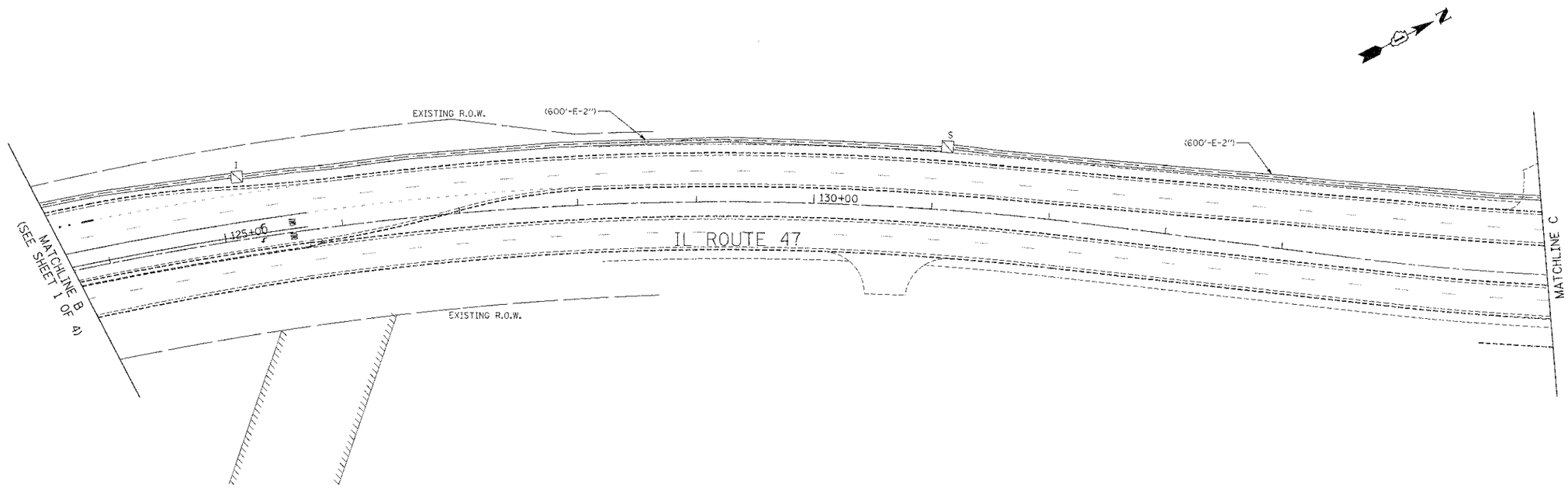
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

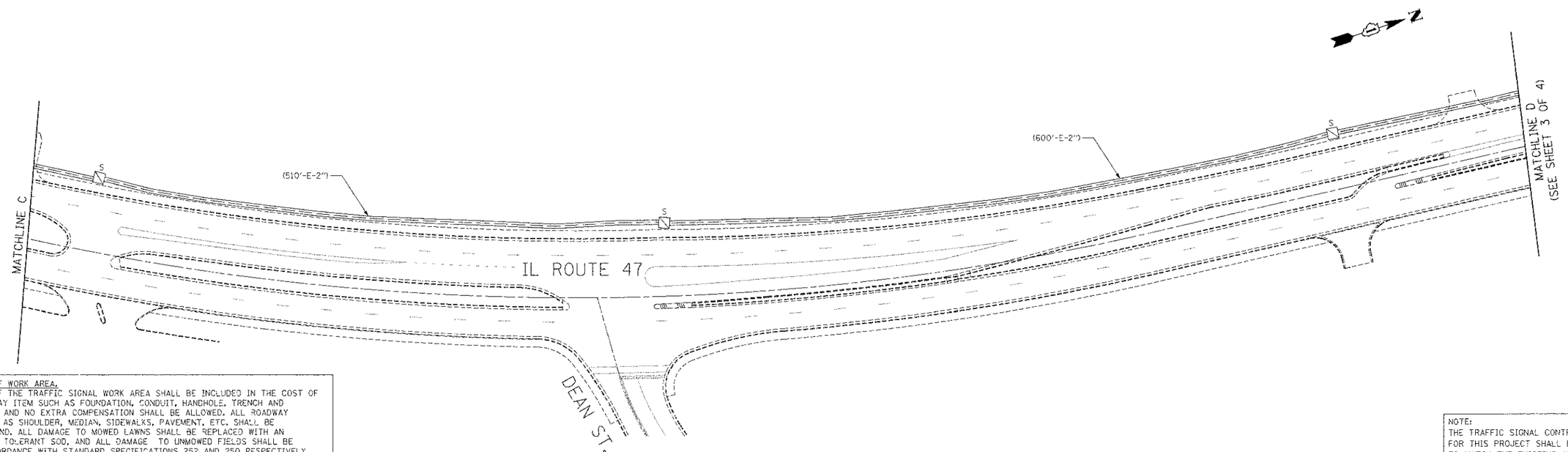
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 47
(KREUTZER ROAD TO MAIN STREET)

SCALE: 1" = 50' | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	74
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		





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

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

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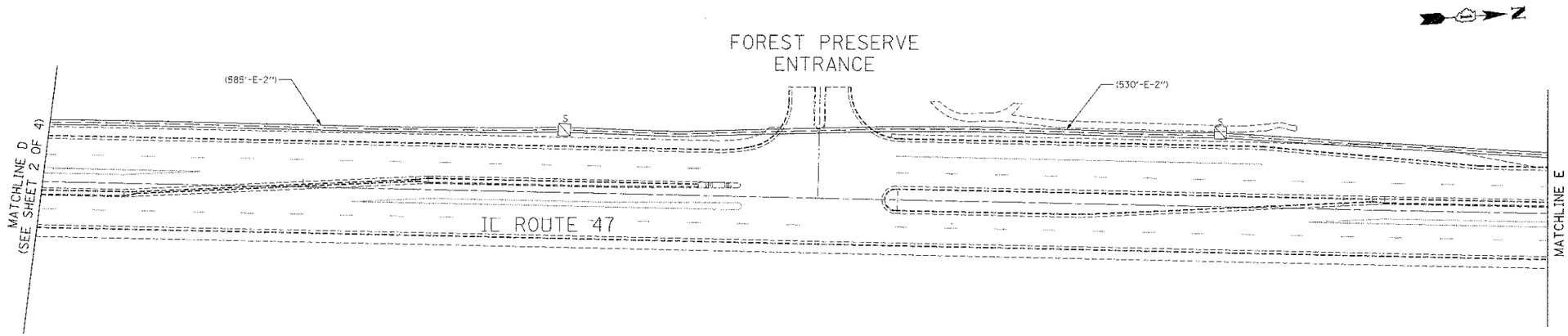
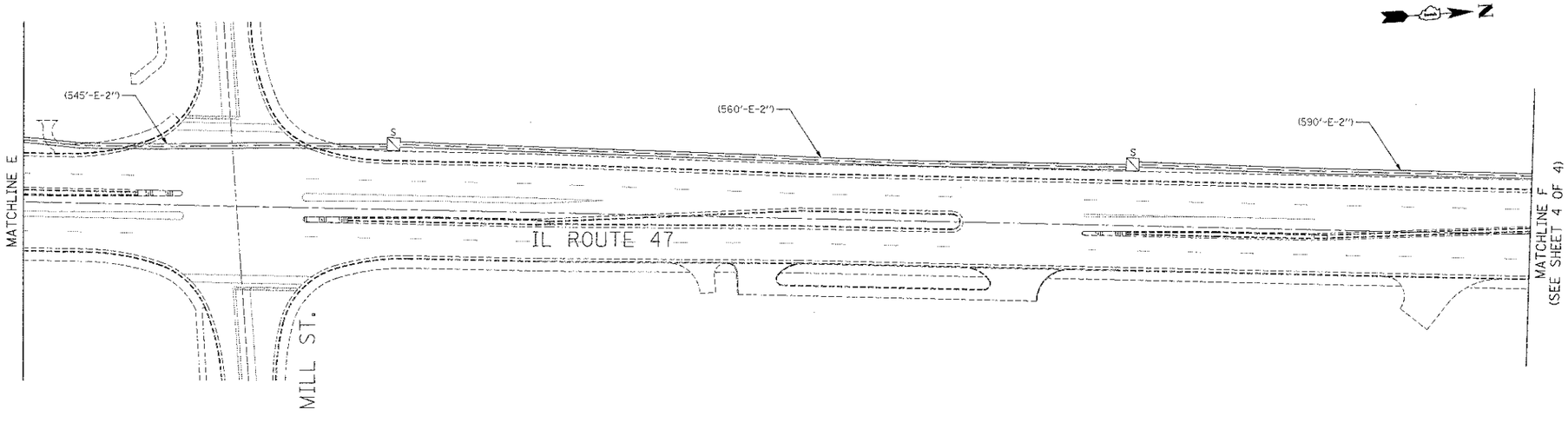
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 47
(KREUTZER ROAD TO MAIN STREET)

SCALE: 1" = 50' | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	75
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		





RESTORATION OF WORK AREA.
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NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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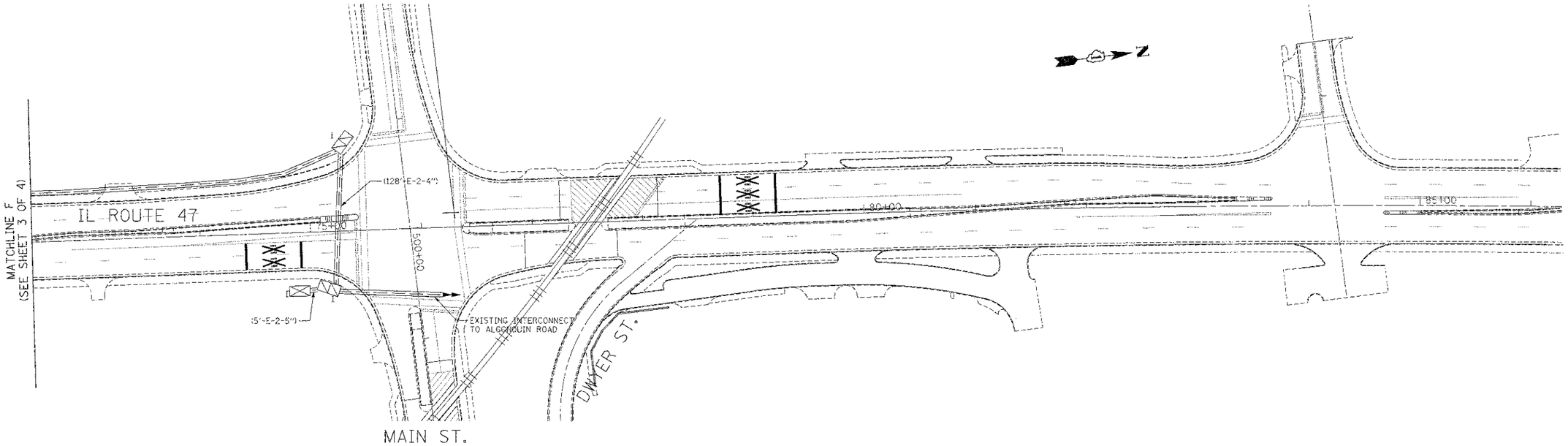
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 47
(KREUTZER ROAD TO MAIN STREET)

SCALE: 1" = 50' | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00131-00-PV	McHENRY	167	76
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		



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

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

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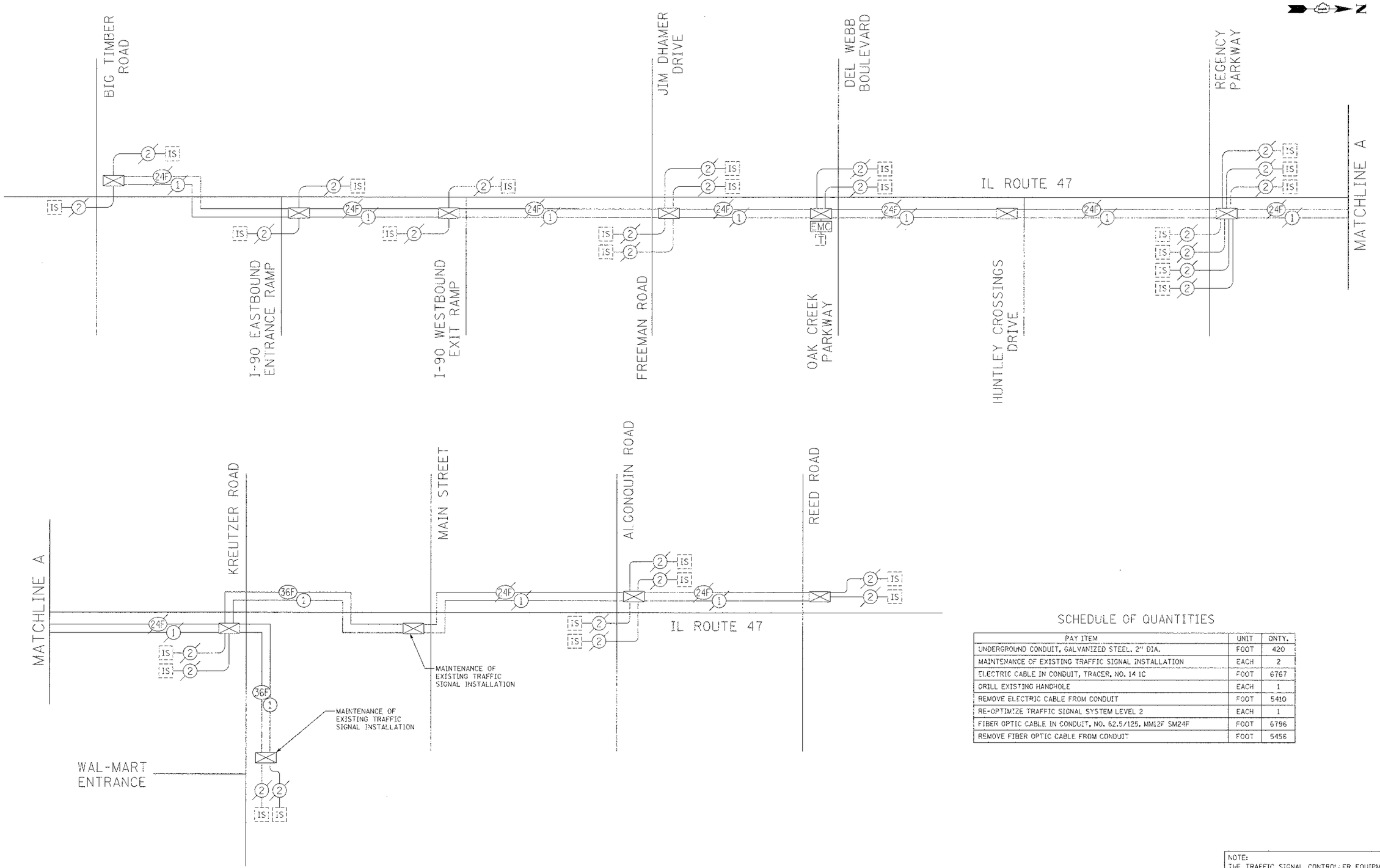
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 47
(KREUTZER ROAD TO MAIN STREET)

SCALE: 1" = 50' | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	77
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	420
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 IC	FOOT	6767
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5410
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	6796
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	5456

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

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	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IL ROUTE 47
BIG TIMBER ROAD TO REED ROAD

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	78
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		

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.

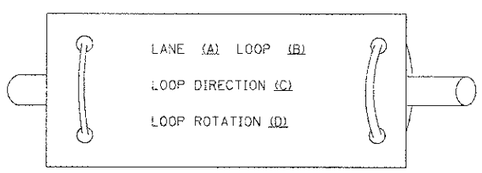
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

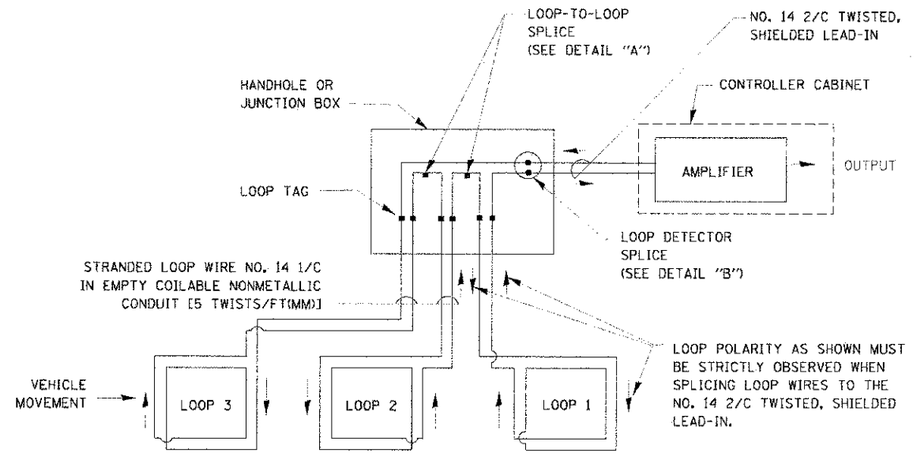


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

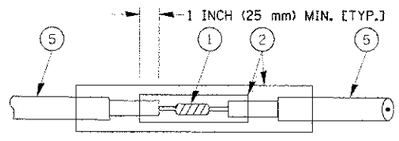
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

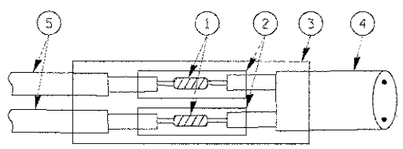


DETECTOR LOOP WIRING SCHEMATIC

- 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.

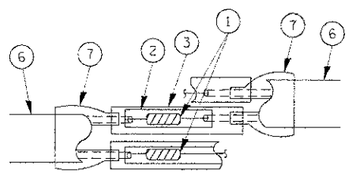


DETAIL "A"
LOOP-TO-LOOP SPLICE



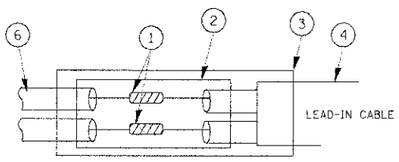
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

PLOT NAME =	USER NAME = lbardephe\aqire	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 2.000000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/28/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

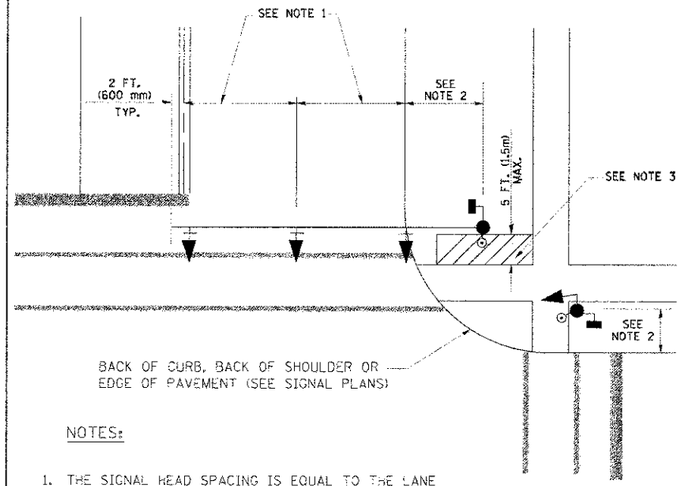
SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	MCHENRY	167	79

CONTRACT NO. 63743
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

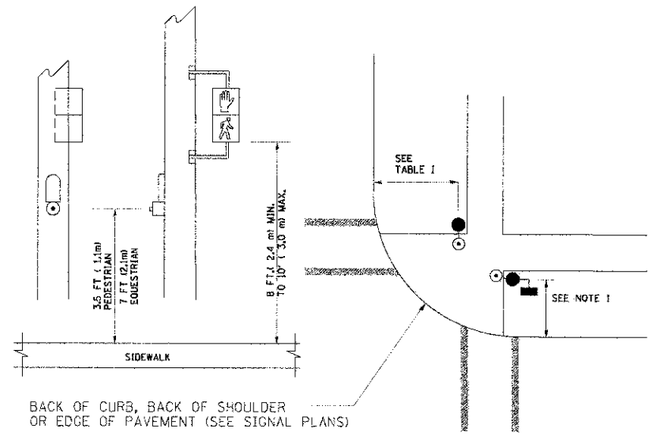
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

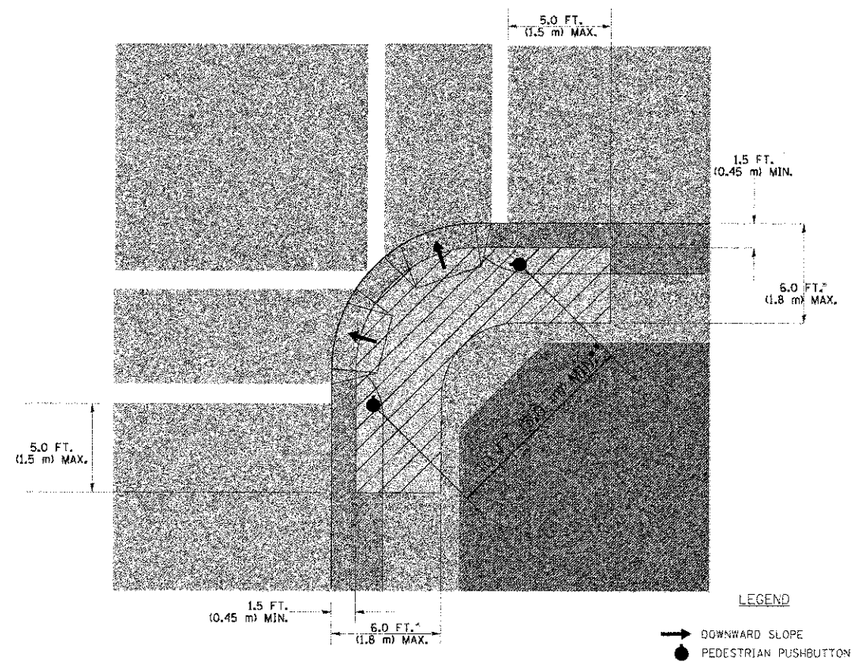
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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.

FILE NAME =	USER NAME =	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.8282 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/5/2009	DATE - 10/28/09	REVISED -

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.
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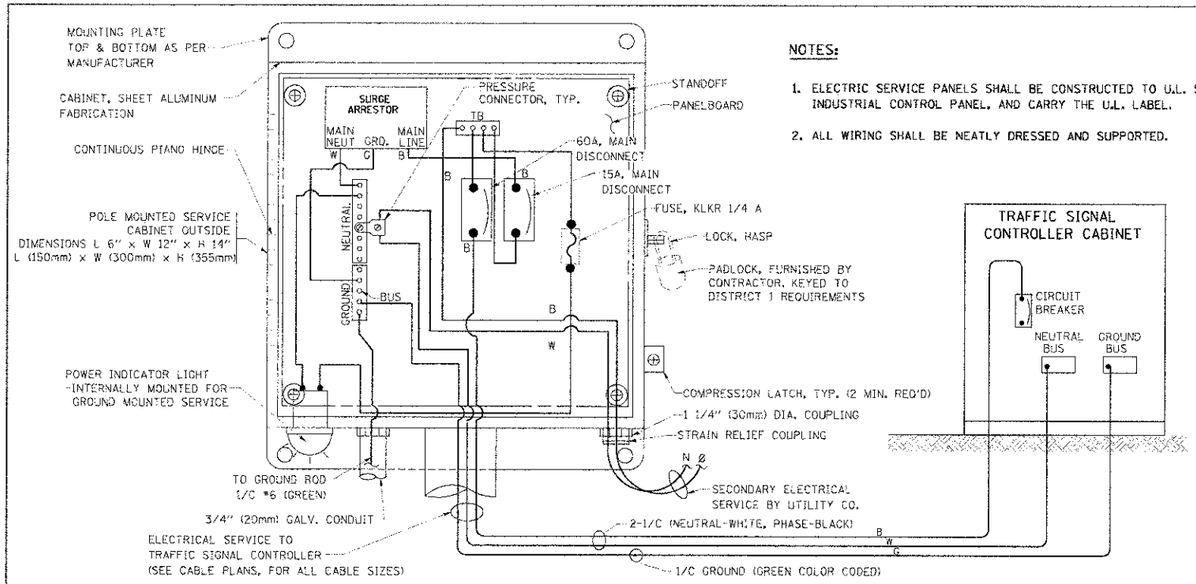
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



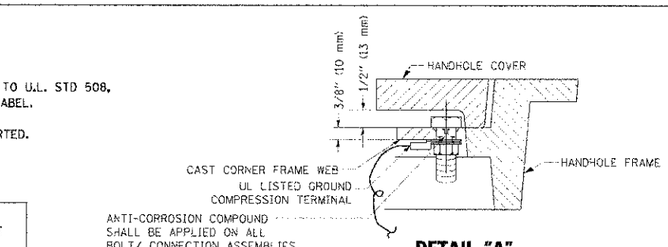
NOTES:

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.

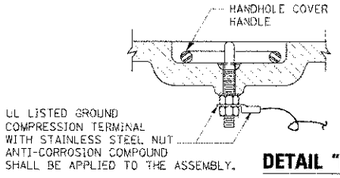
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

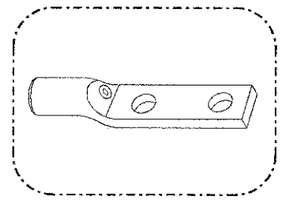


DETAIL "B"

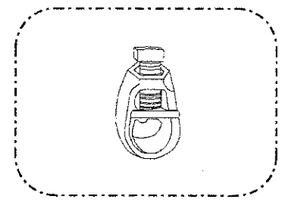
NOTES:

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.



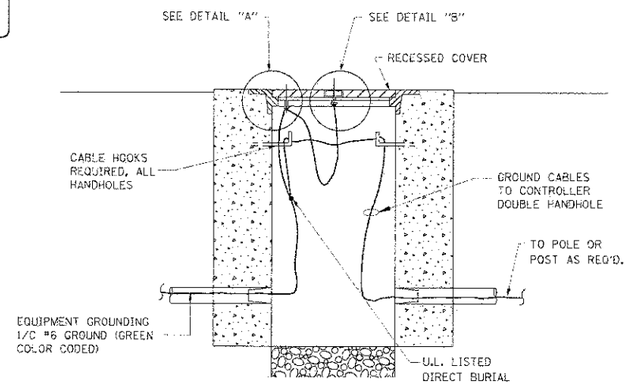
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

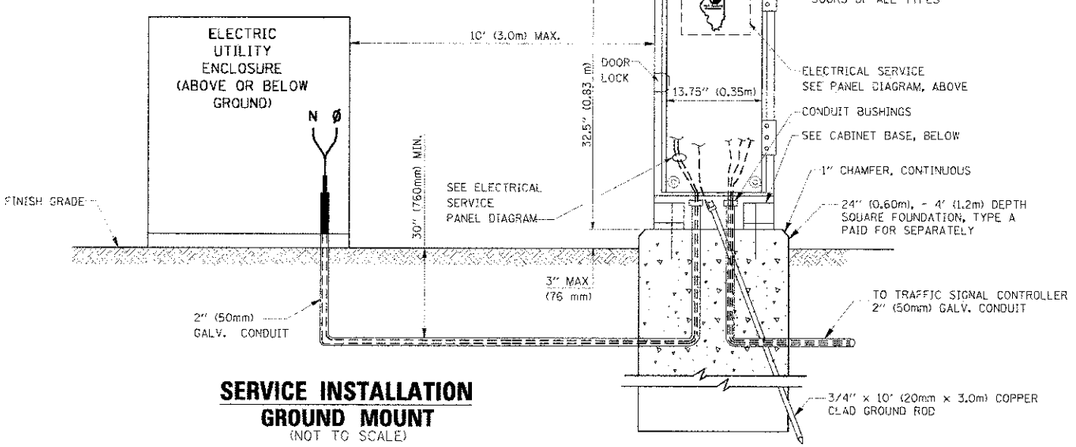
NOTES:

- 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.



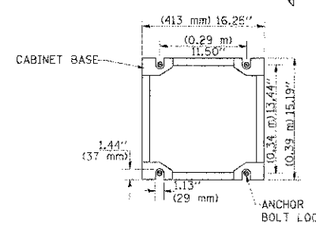
HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



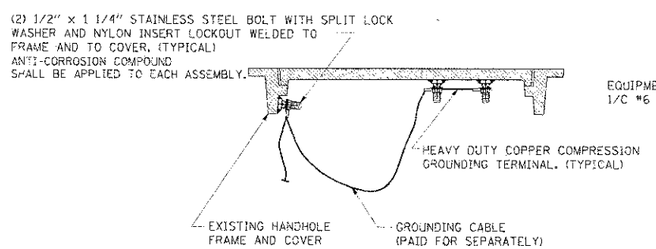
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



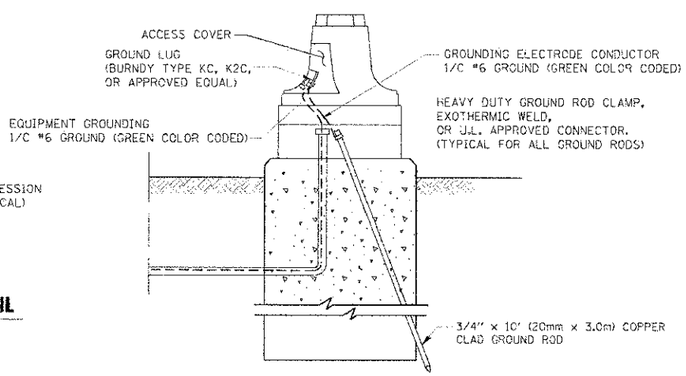
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

FILE NAME =	USER NAME =	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 28.8000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/8/2009	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.
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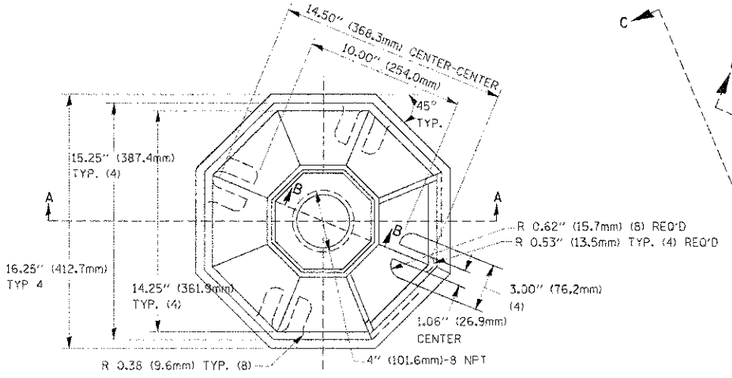
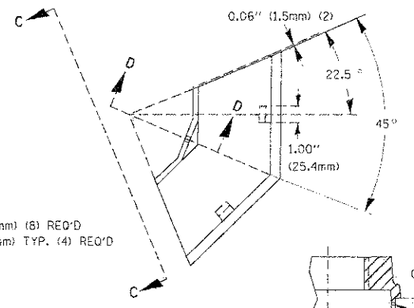
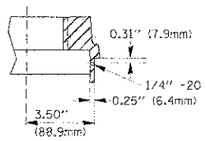
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

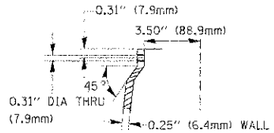


TOP VIEW

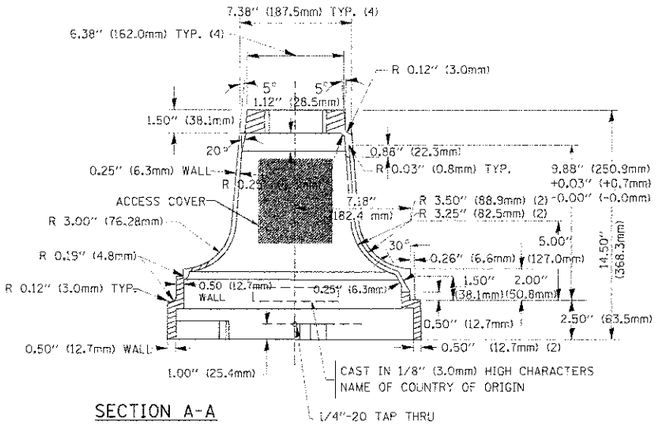




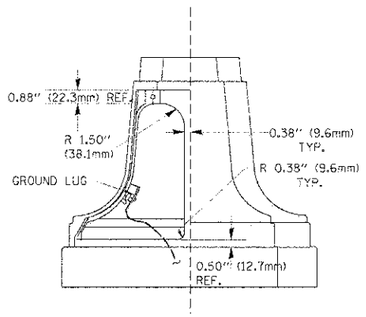
SECTION B-B



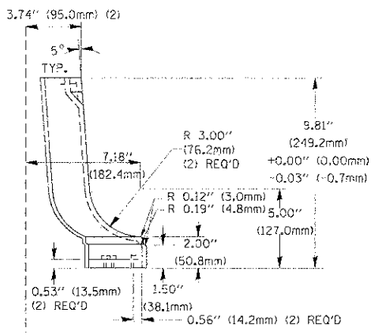
SECTION D-D



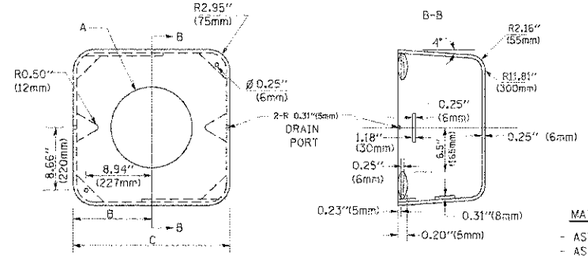
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

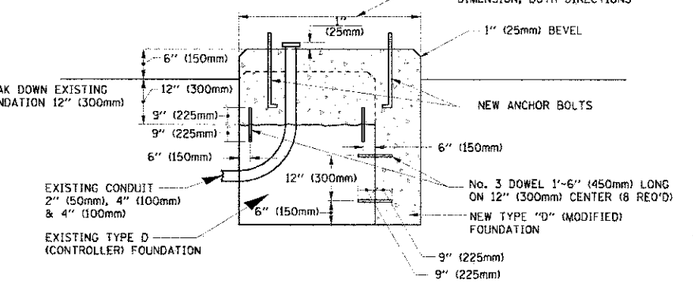
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

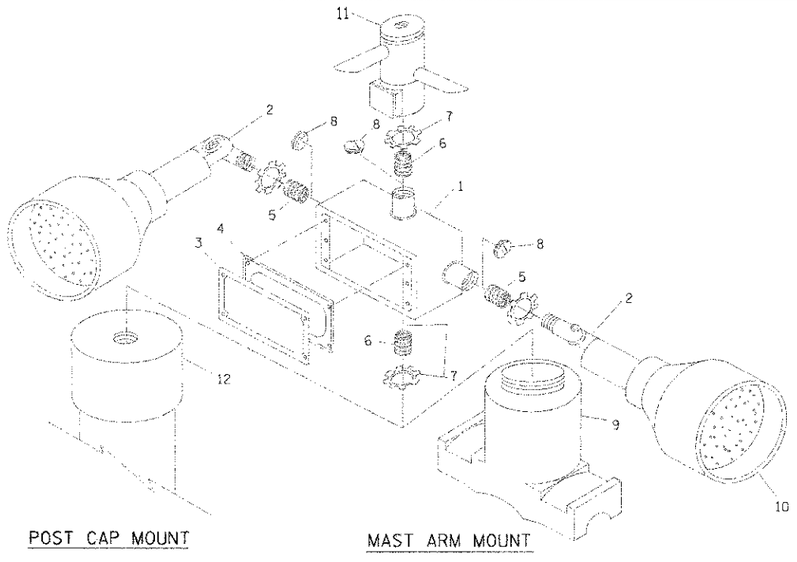
NOTES:

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

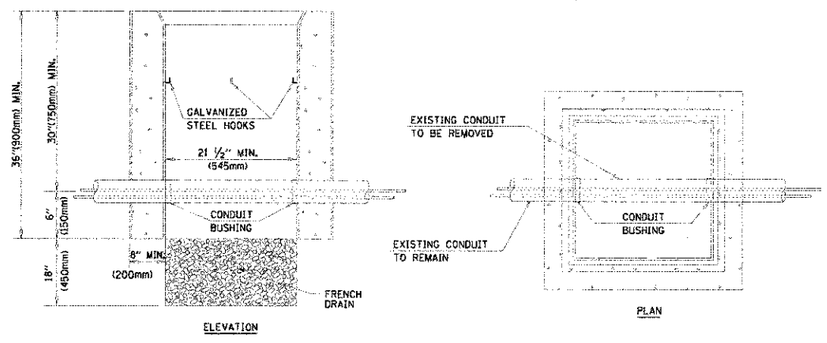
MAST ARM MOUNT

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

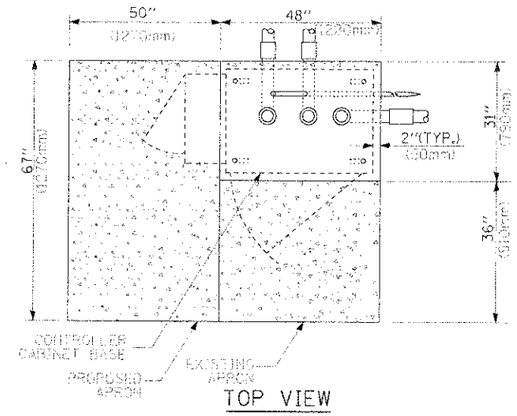
FILE NAME =	USER NAME = hamdhashaikh	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 2.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/5/2009	DATE 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

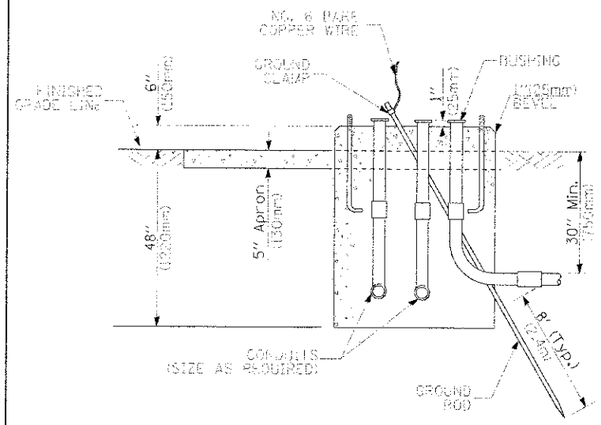
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

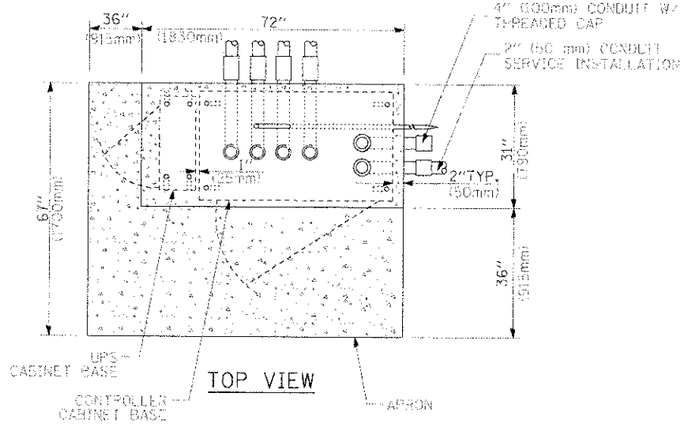
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00131-00-PV	MCHENRY	167	S2
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



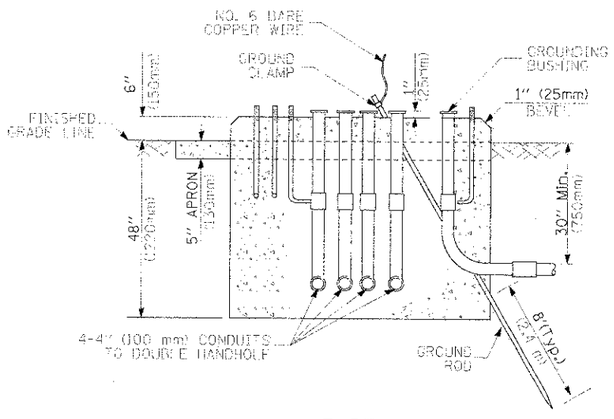
TOP VIEW



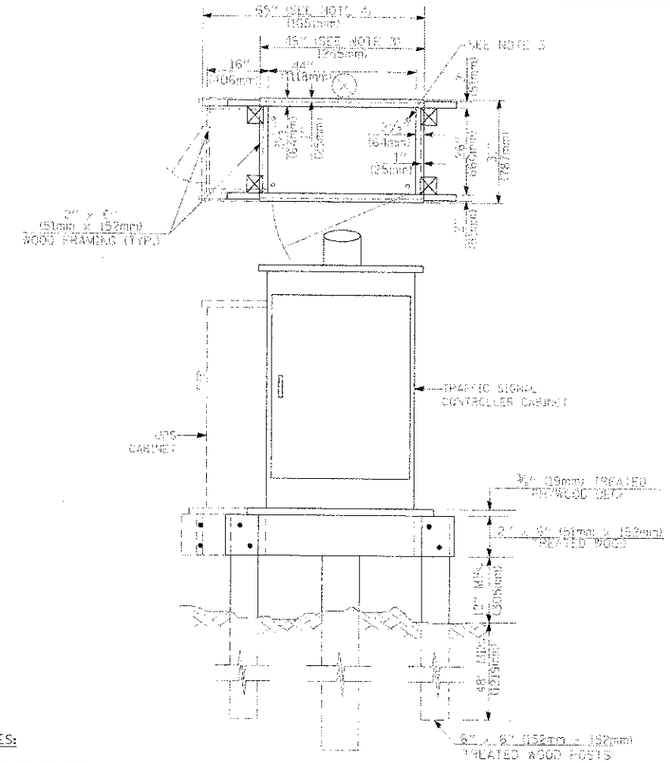
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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 equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal 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 equal 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 equal 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

FILE NAME =	USER NAME = bambaphuaqua	DESIGNED - DAC	REVISED -
	Arial for Legend 7.5pt	DRAWN - BCK	REVISED -
	PLOT SCALE = 0.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/28/2009	DATE - 10/28/09	REVISED -

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.
4068	07-00031-00-PV	MCHENRY	167	83
		CONTRACT NO. 63743		

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	E C C	C C
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	E UPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	E	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 RR	RR	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

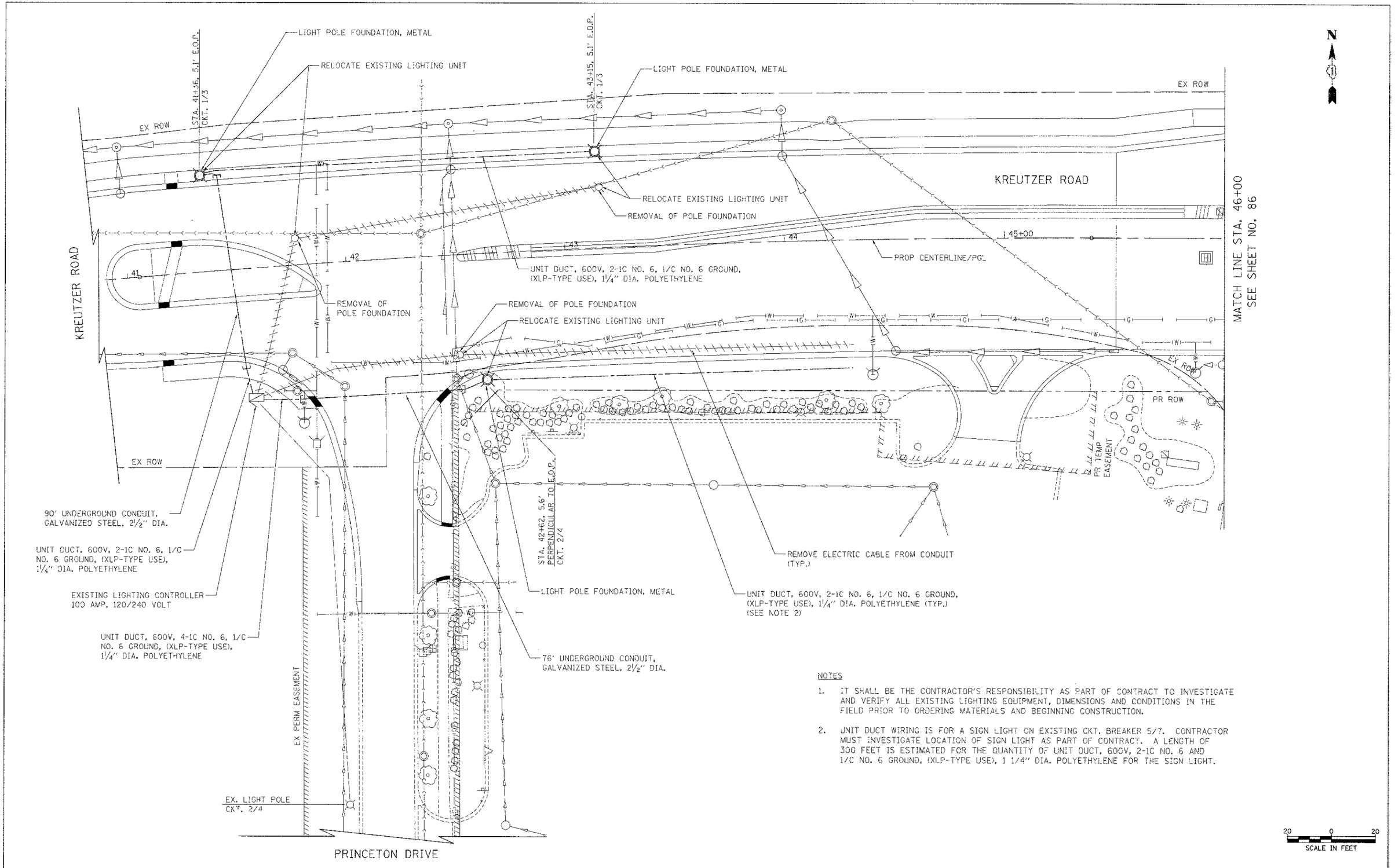
ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		I	I
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24P
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		

FILE NAME = ...\2473_TS_16_IDOT_Detail_6.dgn	USER NAME = bas	DESIGNED - DAG/BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS					
		DRAWN - BCK	REVISED -							
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DAD	REVISED -							
	PLOT DATE = 12/18/2012	DATE - 10/28/09	REVISED -		SCALE: NONE	SHEET NO. 6 OF 6 SHEETS	STA.	TO STA.		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00311-00-PV	McHENRY	167	84
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		



NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AS PART OF CONTRACT TO INVESTIGATE AND VERIFY ALL EXISTING LIGHTING EQUIPMENT, DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2. UNIT DUCT WIRING IS FOR A SIGN LIGHT ON EXISTING CKT. BREAKER 5/7. CONTRACTOR MUST INVESTIGATE LOCATION OF SIGN LIGHT AS PART OF CONTRACT. A LENGTH OF 300 FEET IS ESTIMATED FOR THE QUANTITY OF UNIT DUCT, 600V, 2-1C NO. 6 AND 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE FOR THE SIGN LIGHT.

20 0 20
SCALE IN FEET

FILE NAME = ...\16-Lighting\2473_Light_01.dgn	USER NAME = bas	DESIGNED - SJC	REVISED -
		DRAWN - SJC	REVISED -
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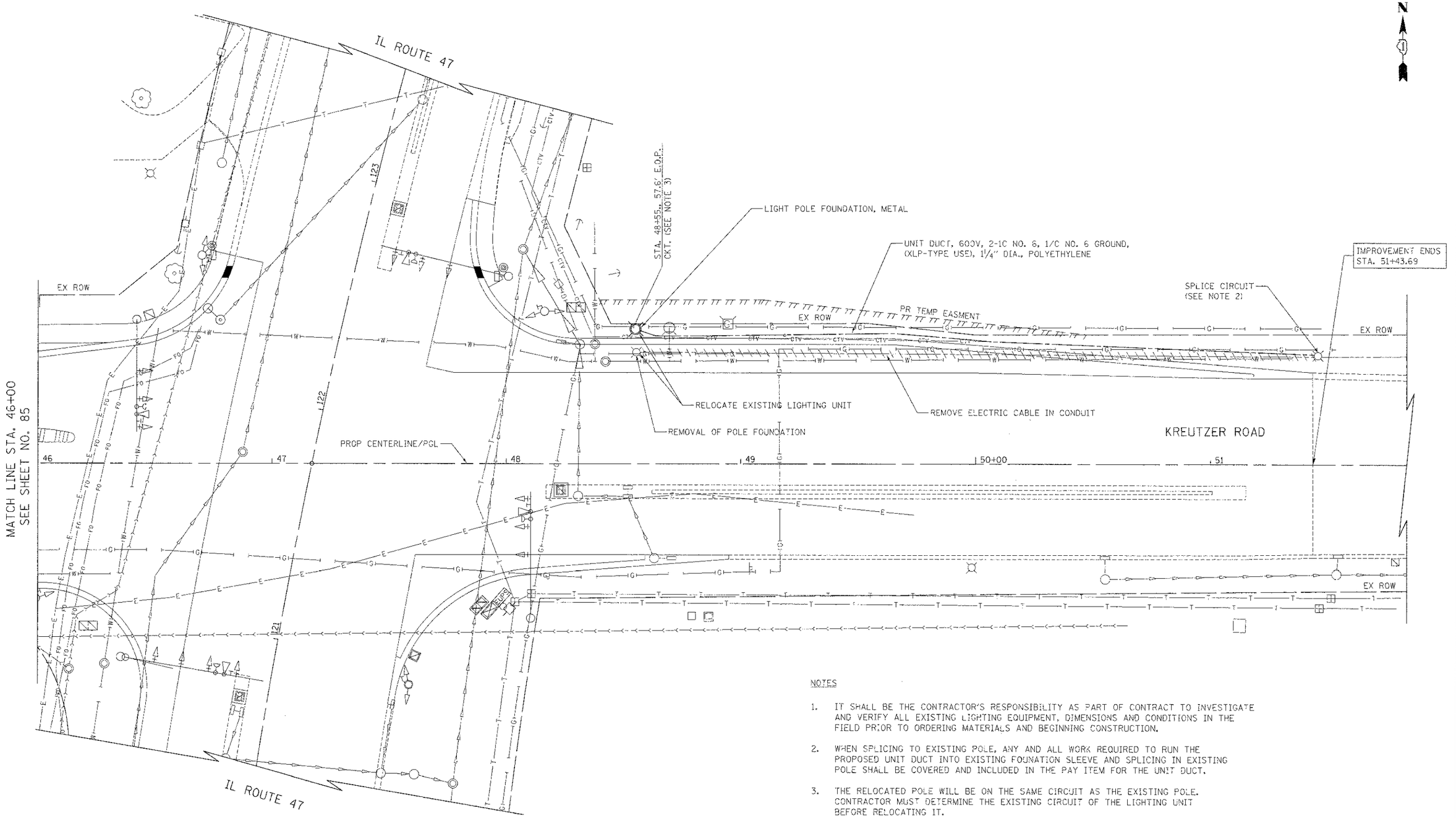
	PLOT DATE = 10/18/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. 41+00 TO STA. 46+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	85
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX------		



NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AS PART OF CONTRACT TO INVESTIGATE AND VERIFY ALL EXISTING LIGHTING EQUIPMENT, DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

2. WHEN SPLICING TO EXISTING POLE, ANY AND ALL WORK REQUIRED TO RUN THE PROPOSED UNIT DUCT INTO EXISTING FOUNATION SLEEVE AND SPLICING IN EXISTING POLE SHALL BE COVERED AND INCLUDED IN THE PAY ITEM FOR THE UNIT DUCT.

3. THE RELOCATED POLE WILL BE ON THE SAME CIRCUIT AS THE EXISTING POLE. CONTRACTOR MUST DETERMINE THE EXISTING CIRCUIT OF THE LIGHTING UNIT BEFORE RELOCATING IT.

4. LIGHTING CONTROLLER LOCATED AT THE SOUTHWEST CORNER OF WALMART AND KREUTZER ROAD INTERSECTION.

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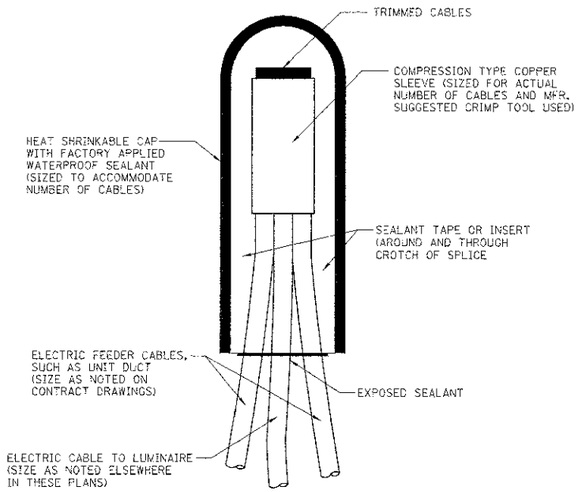
	PLOT DATE = 10/16/2012	DATE - 10/22/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

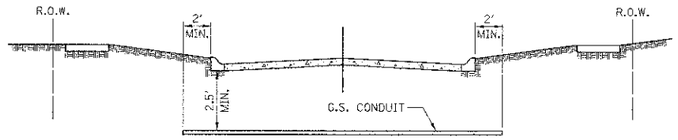
SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. 46+00 TO STA. 51+44

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	86
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		



NOTE: NUMBER OF CABLES IN SPLICE MAY VARY

SPLICING ELECTRIC CABLES BASIC MATERIALS AND METHODS



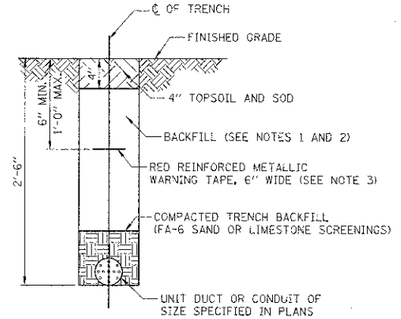
STREET CROSSING

1. CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT.
2. CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
3. CONDUIT SHALL BE A MINIMUM OF 2.5 FT. BELOW BOTTOM OF CURB.

ELECTRICAL CONDUIT UNDER PAVEMENT

NOTES:

1. IN GRASS COVERED AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
2. TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS WILL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
3. WARNING TAPE WILL BE RED WITH BLACK LETTERING TO READ "CAUTION - ELECTRIC LINE BURIED BELOW".
4. ALL GRASS COVERED AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED WITH 4" OF TOPSOIL AND SOD.



TYPICAL TRENCH CROSS SECTION

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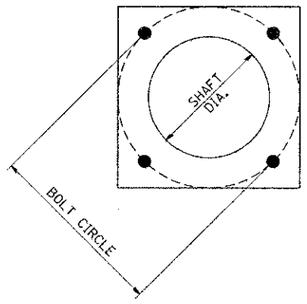
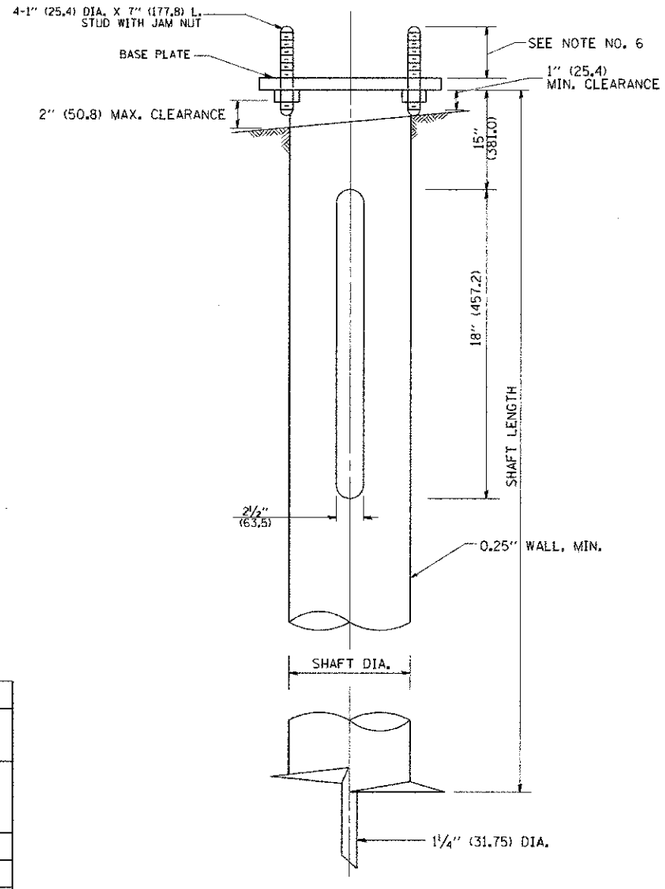
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	87
		CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT XXX-------		





HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN ¼" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

FILE NAME = W:\dist6td\22x34\be305.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -
		DRAWN - DLB	REVISED -
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	PLOT DATE = 1/4/2008	DATE - 02-27-07	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

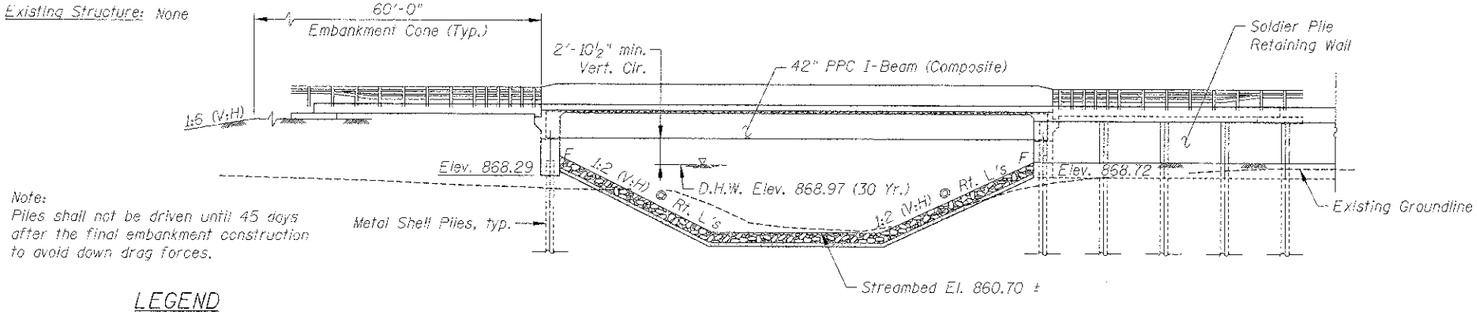
LIGHT POLE FOUNDATION, METAL

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-0031-00-PV	McHENRY	167	88
	BE-305	CONTRACT NO. 63743		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

Bench Mark: TBM #2, cross cut (Set) in South edge of rim of sanitary manhole N.A.V.D. '88 Elev. 873.44, Sta. 22+90; Offset 125' Right

Existing Structure: None



Note:
Piles shall not be driven until 45 days after the final embankment construction to avoid down drag forces.

WATERWAY INFORMATION

Drainage Area = 6.138 acres Low Grade Elev. 873.21 @ Sta. 25+86.11

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Base	10	500	N/A	259.6	867.67	N/A	0.01	N/A	867.68
Design	30	806	N/A	319.8	868.97	N/A	0.02	N/A	868.99
	100	1150	N/A	387.6	870.00	N/A	0.03	N/A	870.03
Overtopping									
Max. Calc.	500	1,590	N/A	456.0	871.24	N/A	0.11	N/A	871.35

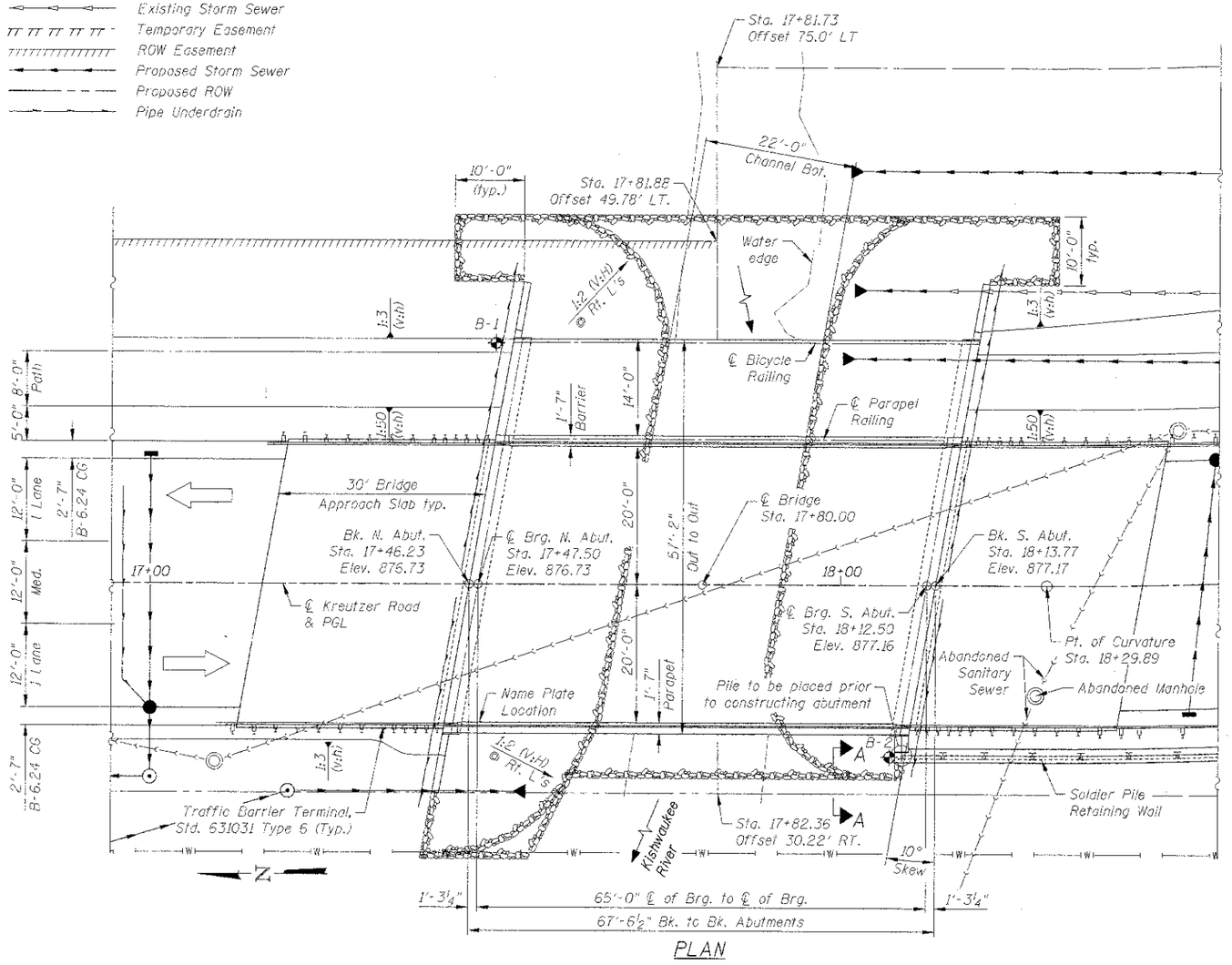
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	868.00	868.00

LEGEND

- Soil Boring
- Watermain
- Existing Sanitary Sewer
- Existing Storm Sewer
- Temporary Easement
- ROW Easement
- Proposed Storm Sewer
- Proposed ROW
- Pipe Underdrain

ELEVATION

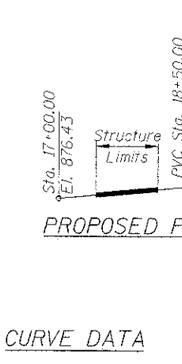


PLAN

STATION 17+80.00
BUILT 201_ BY
STATE OF ILLINOIS
F.A.U. 4068
SEC. 07-00031-00-PV
LOADING HL-93
STRUCTURE NO. 056-6010

NAME PLATE

See Std. 515001



PROPOSED PROFILE KREUTZER ROAD

CIVILTECH ENGINEERING, INC.
GREGORY J. HATLESTAD, S.E.

STATE OF ILLINOIS · GREGORY J. HATLESTAD · 081-005562 · CHICAGO, IL · LICENSED STRUCTURAL ENGINEER

GREGORY J. HATLESTAD, S.E.
081-005562

EXP 11/30/2012

DATE 11/21/2012

CURVE DATA

Δ = 90° 17' 41" (Lt)
D = 8° 44' 51"
T = 658.38'
L = 1,032.24'
E = 273.70'
R = 655.00'
P.C. = Sta. 18+29.89
P.T. = Sta. 28+62.13
P.I. = Sta. 24+88.26

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 7,000 psi
f'ci = 6,000 psi
f's = 270,000 psi (1/2"ϕ low lax. strands)
fsi = 201,960 psi (1/2"ϕ low lax. strands)

I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications for Highway Bridges.

DESIGN SPECIFICATIONS

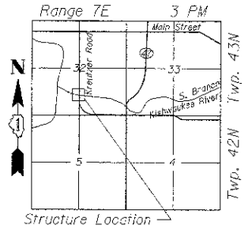
2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.090g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.176g
Soil Site Class = D



LOCATION SKETCH

GENERAL PLAN & ELEVATION
KREUTZER ROAD OVER
S. BR. KISHWAUKEE RIVER
F.A.U. 4068 SECTION 07-00031-00-PV
McHENRY COUNTY
STATION 17+80
STRUCTURE NO. 056-6010

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

DRAWN	K. BOCHNOWSKI	REVISED	-
DESIGNED	M. LANGE	REVISED	-
CHECKED	G. HATLESTAD	REVISED	-
DATE	10/22/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. 51 OF 518 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	McHENRY	167	89
		CONTRACT NO. 63743		
		ILLINOIS FED. AID PROJECT		

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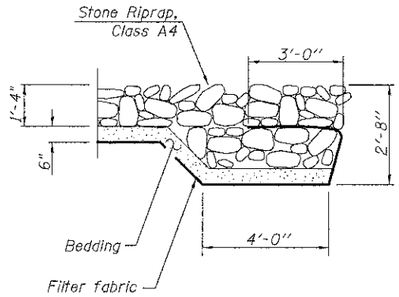
GENERAL NOTES

1. Calculated weight of Structural Steel AASHTO M270 Gr. 36 = 3,140 lb
   Included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.
4. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
5. Slipforming of the parapets is not allowed.

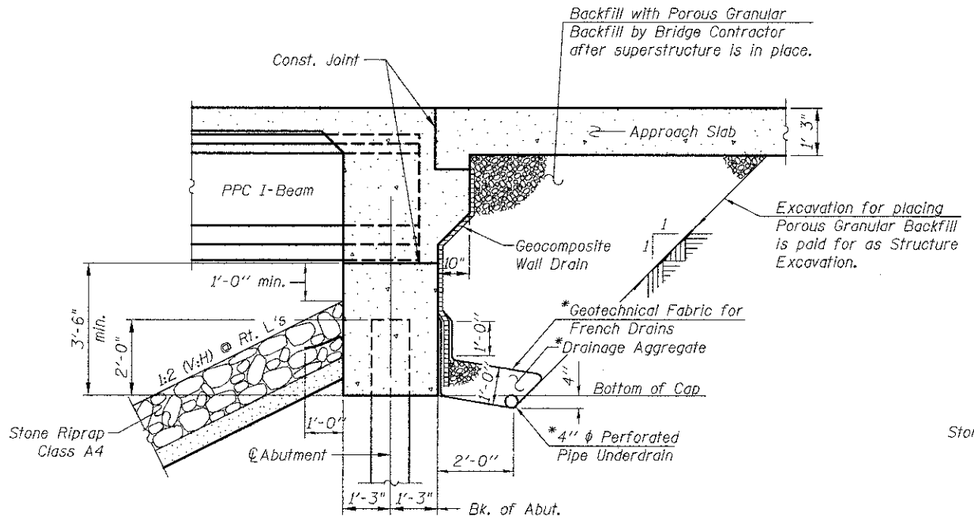


SECTION A-A

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

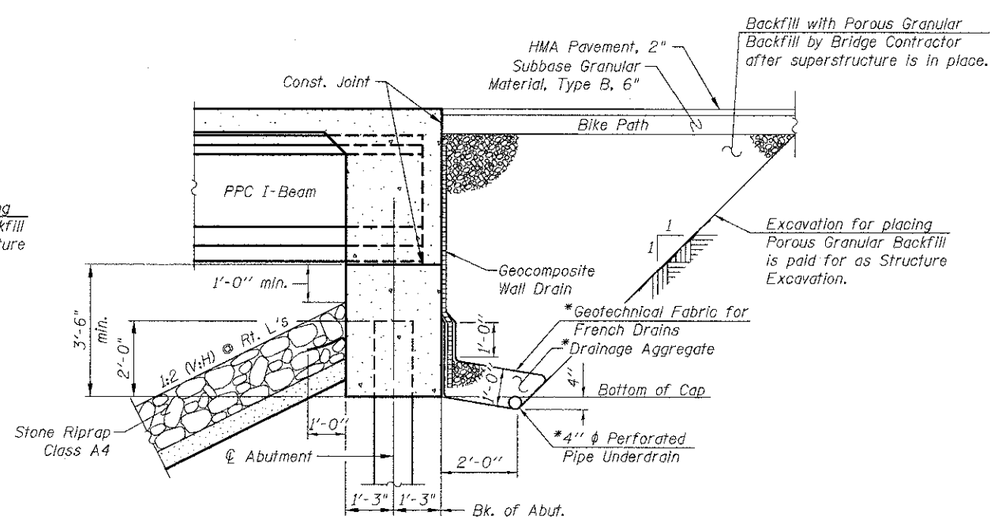
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.	-	570	570
Granular Backfill for Structures	Cu. Yd.	-	208	208
Stone Riprap, Class A4	Sq. Yd.	-	667	667
Filter Fabric	Sq. Yd.	-	667	667
Concrete Structures	Cu. Yd.	-	75.5	75.5
Concrete Superstructure	Cu. Yd.	277.0	-	277.0
Bridge Deck Grooving	Sq. Yd.	679	-	679
Protective Coat	Sq. Yd.	768	-	768
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.	Foot	528	-	528
Reinforcement Bars, Epoxy Coated	Pound	57,770	11,510	69,280
Bar Splicers	Each	86	-	86
Bicycle Railing	Foot	66	-	66
Parapet Railing	Foot	62	-	62
Furnishing Metal Shell Piles 14" x 0.312"	Foot	-	920	920
Driving Piles	Foot	-	920	920
Test Pile Metal Shells	Each	-	2	2
Name Plates	Each	1	-	1
Geocomposite Wall Drain	Sq. Yd.	-	109	109
Pipe Underdrains for Structures, 4"	Foot	-	144	144



SECTION THRU INTEGRAL ABUTMENT WITH CORBEL

(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures, 4"

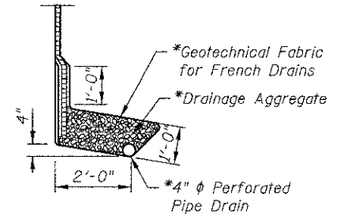


SECTION THRU INTEGRAL ABUTMENT WITHOUT CORBEL

(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures, 4"

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



PIPE UNDERDRAIN DETAIL

* Included in the cost of Pipe Underdrains for Structures, 4"

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DRAWN - K. BOCHNOWSKI	REVISED -	
DESIGNED - M. LANGE	REVISED -	
CHECKED - G. HATLESTAD	REVISED -	
DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S2 OF S18 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	90
		CONTRACT NO. 63743		
	ILLINOIS FED. AID PROJECT			

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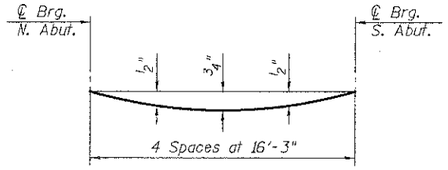
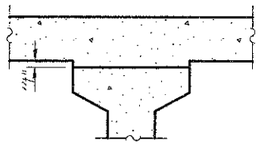


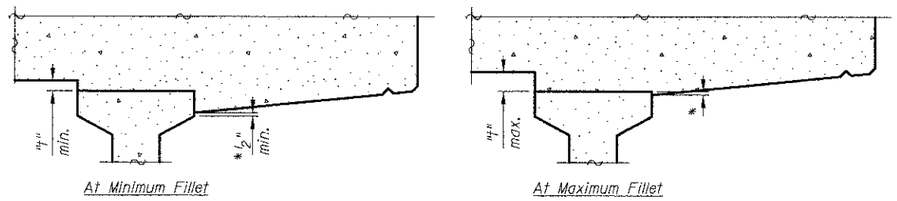
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheet S4.



INTERIOR BEAMS

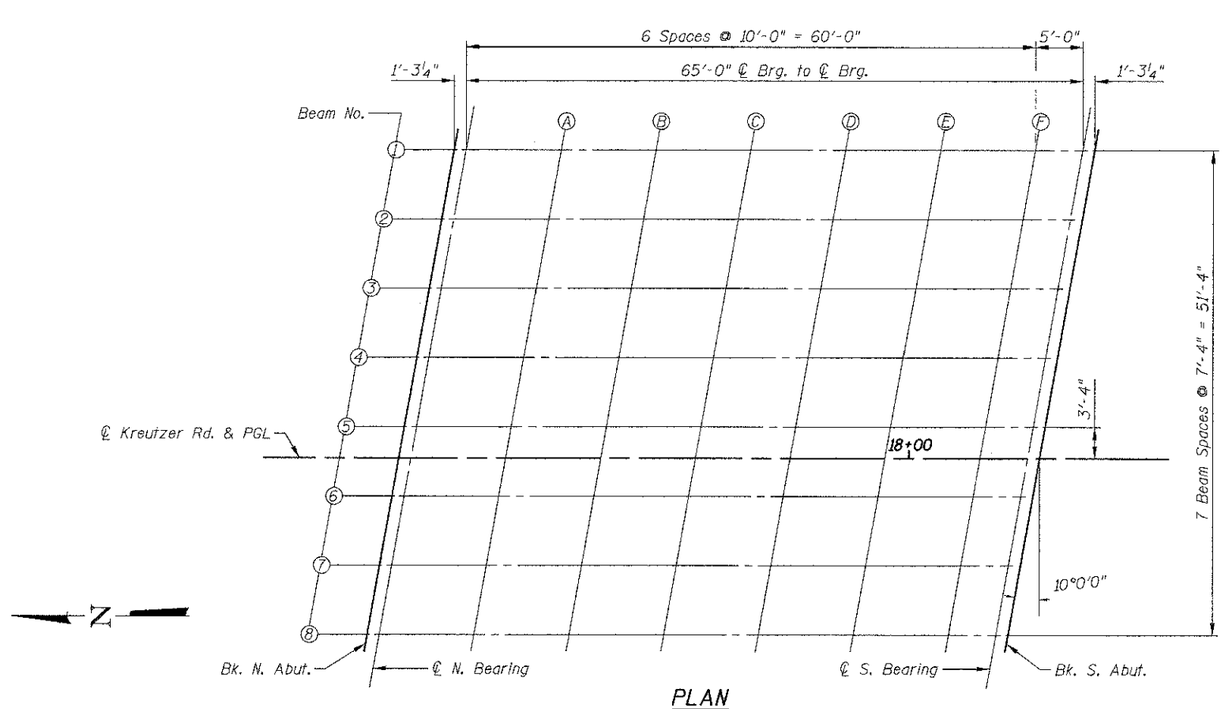


* Variable (not less than ½")

EXTERIOR BEAMS

METHOD OF DETERMINING FILLET HEIGHTS "t"

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet S4, minus 8" deck, equals the fillet heights "t" above top flanges of beams.



PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+51.99	-32.67	876.18	876.18
CL Brg. N. Abut.	17+53.26	-32.67	876.18	876.18
A	17+63.26	-32.67	876.25	876.28
B	17+73.26	-32.67	876.31	876.36
C	17+83.26	-32.67	876.38	876.44
D	17+93.26	-32.67	876.44	876.50
E	18+03.26	-32.67	876.51	876.55
F	18+13.26	-32.67	876.57	876.59
CL Brg. S. Abut.	18+18.26	-32.67	876.61	876.61
Bk. S. Abut.	18+19.53	-32.67	876.62	876.62

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+50.70	-25.33	876.32	876.32
CL Brg. N. Abut.	17+51.97	-25.33	876.33	876.33
A	17+61.97	-25.33	876.39	876.42
B	17+71.97	-25.33	876.46	876.51
C	17+81.97	-25.33	876.52	876.58
D	17+91.97	-25.33	876.59	876.64
E	18+01.97	-25.33	876.65	876.69
F	18+11.97	-25.33	876.72	876.73
CL Brg. S. Abut.	18+16.97	-25.33	876.75	876.75
Bk. S. Abut.	18+18.24	-25.33	876.76	876.76

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+49.40	-18.00	876.46	876.46
CL Brg. N. Abut.	17+50.67	-18.00	876.47	876.47
A	17+60.67	-18.00	876.54	876.57
B	17+70.67	-18.00	876.60	876.65
C	17+80.67	-18.00	876.67	876.73
D	17+90.67	-18.00	876.73	876.79
E	18+00.67	-18.00	876.80	876.84
F	18+10.67	-18.00	876.86	876.88
CL Brg. S. Abut.	18+15.67	-18.00	876.90	876.90
Bk. S. Abut.	18+16.94	-18.00	876.90	876.90

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DRAWN	- K. BOCHNOWSKI	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 10/22/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S3 OF S18 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	91
		CONTRACT NO. 63743		
ILLINOIS	FED. AID PROJECT			

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+48.11	-10.67	876.57	876.57
CL Brg. N. Abut.	17+49.38	-10.67	876.58	876.58
A	17+59.38	-10.67	876.64	876.67
B	17+69.38	-10.67	876.71	876.76
C	17+79.38	-10.67	876.77	876.83
D	17+89.38	-10.67	876.84	876.89
E	17+99.38	-10.67	876.90	876.94
F	18+09.38	-10.67	876.97	876.98
CL Brg. S. Abut.	18+14.38	-10.67	877.00	877.00
Bk. S. Abut.	18+15.65	-10.67	877.01	877.01

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+46.82	-3.33	876.68	876.68
CL Brg. N. Abut.	17+48.09	-3.33	876.69	876.69
A	17+58.09	-3.33	876.75	876.78
B	17+68.09	-3.33	876.82	876.86
C	17+78.09	-3.33	876.88	876.94
D	17+88.09	-3.33	876.95	877.00
E	17+98.09	-3.33	877.01	877.05
F	18+08.09	-3.33	877.08	877.09
CL Brg. S. Abut.	18+13.09	-3.33	877.11	877.11
Bk. S. Abut.	18+14.36	-3.33	877.12	877.12

℄ KREUTZER ROAD, PGL & CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+46.23	0.00	876.73	876.73
CL Brg. N. Abut.	17+47.50	0.00	876.73	876.73
A	17+57.50	0.00	876.80	876.83
B	17+67.50	0.00	876.86	876.91
C	17+77.50	0.00	876.93	876.99
D	17+87.50	0.00	876.99	877.05
E	17+97.50	0.00	877.06	877.10
F	18+07.50	0.00	877.12	877.14
CL Brg. S. Abut.	18+12.50	0.00	877.16	877.16
Bk. S. Abut.	18+13.77	0.00	877.16	877.16

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+45.53	4.00	876.66	876.66
CL Brg. N. Abut.	17+46.79	4.00	876.67	876.67
A	17+56.79	4.00	876.73	876.76
B	17+66.79	4.00	876.80	876.85
C	17+76.79	4.00	876.86	876.92
D	17+86.79	4.00	876.93	876.98
E	17+96.79	4.00	876.99	877.03
F	18+06.79	4.00	877.06	877.07
CL Brg. S. Abut.	18+11.79	4.00	877.09	877.09
Bk. S. Abut.	18+13.06	4.00	877.10	877.10

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+44.23	11.33	876.54	876.54
CL Brg. N. Abut.	17+45.50	11.33	876.54	876.54
A	17+55.50	11.33	876.61	876.64
B	17+65.50	11.33	876.67	876.72
C	17+75.50	11.33	876.74	876.80
D	17+85.50	11.33	876.80	876.86
E	17+95.50	11.33	876.87	876.91
F	18+05.50	11.33	876.93	876.95
CL Brg. S. Abut.	18+10.50	11.33	876.97	876.97
Bk. S. Abut.	18+11.77	11.33	876.97	876.97

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	17+42.94	18.67	876.41	876.41
CL Brg. N. Abut.	17+44.21	18.67	876.42	876.42
A	17+54.21	18.67	876.48	876.51
B	17+64.21	18.67	876.55	876.60
C	17+74.21	18.67	876.61	876.67
D	17+84.21	18.67	876.68	876.73
E	17+94.21	18.67	876.74	876.78
F	18+04.21	18.67	876.81	876.82
CL Brg. S. Abut.	18+09.21	18.67	876.84	876.84
Bk. S. Abut.	18+10.48	18.67	876.85	876.85

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www.civiltechinc.com

DRAWN - K. BOCHNOWSKI	REVISED -	
DESIGNED - M. LANGE	REVISED -	
CHECKED - G. HATLESTAD	REVISED -	
DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS II
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S4 OF S18 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	92
		CONTRACT NO. 63743		
	ILLINOIS FED. AID PROJECT			

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+12.63	20.42	876.13
A	17+22.63	20.42	876.21
B	17+32.63	20.42	876.29
S. End N. Appr. Pav't	17+42.63	20.42	876.37
N. End S. Appr. Pav't	18+10.17	20.42	876.81
C	18+20.17	20.42	876.87
D	18+30.16	20.42	876.92
S. End S. Appr. Pav't	18+39.85	20.42	876.97

WEST EOP, NEAR SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+13.06	18.00	876.18
A	17+23.06	18.00	876.26
B	17+33.06	18.00	876.34
S. End N. Appr. Pav't	17+43.06	18.00	876.42
N. End S. Appr. Pav't	18+10.60	18.00	876.86
C	18+20.60	18.00	876.92
D	18+30.58	18.00	876.97
S. End S. Appr. Pav't	18+40.30	18.00	877.02

WEST EOP, NEAR MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+15.17	6.00	876.42
A	17+25.17	6.00	876.49
B	17+35.17	6.00	876.56
S. End N. Appr. Pav't	17+45.17	6.00	876.63
C			
N. End S. Appr. Pav't	18+12.71	6.00	877.06
C	18+22.71	6.00	877.13
D	18+32.69	6.00	877.19
S. End S. Appr. Pav't	18+42.59	6.00	877.25

℄ KREUTZER ROAD & PGL

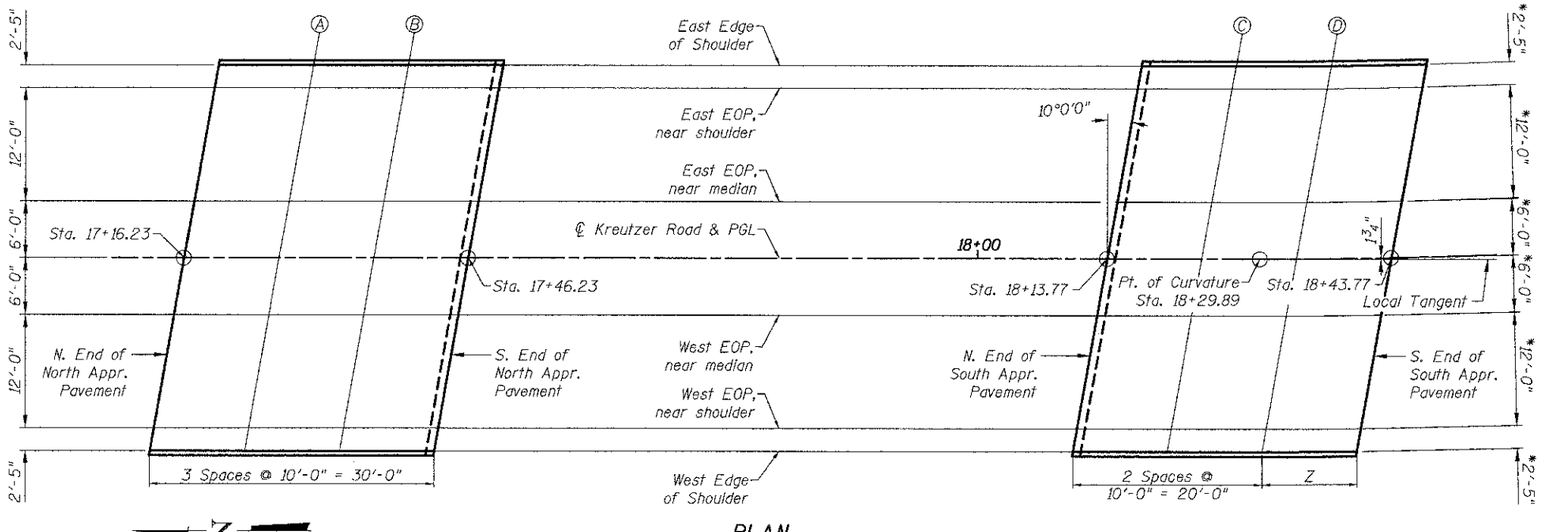
Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+16.23	0.00	876.53
A	17+26.23	0.00	876.60
B	17+36.23	0.00	876.66
S. End N. Appr. Pav't	17+46.23	0.00	876.73
N. End S. Appr. Pav't	18+13.77	0.00	877.16
C	18+23.77	0.00	877.23
D	18+33.77	0.00	877.29
S. End S. Appr. Pav't	18+43.77	0.00	877.36

EAST EOP, NEAR MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+17.29	-6.00	876.43
A	17+27.29	-6.00	876.50
B	17+37.29	-6.00	876.57
S. End N. Appr. Pav't	17+47.29	-6.00	876.64
N. End S. Appr. Pav't	18+14.83	-6.00	877.08
C	18+24.83	-6.00	877.14
D	18+34.87	-6.00	877.20
S. End S. Appr. Pav't	18+44.97	-6.00	877.26

EAST EOP, NEAR SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+19.40	-18.00	876.23
A	17+29.40	-18.00	876.31
B	17+39.40	-18.00	876.40
S. End N. Appr. Pav't	17+49.40	-18.00	876.47
N. End S. Appr. Pav't	18+16.94	-18.00	876.91
C	18+26.94	-18.00	876.95
D	18+37.14	-18.00	877.00
S. End S. Appr. Pav't	18+47.44	-18.00	877.06



PLAN

* Indicates dimensions are radial

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Pav't	17+19.83	-20.42	876.19
A	17+29.83	-20.42	876.27
B	17+39.83	-20.42	876.35
S. End N. Appr. Pav't	17+49.83	-20.42	876.42
N. End S. Appr. Pav't	18+17.37	-20.42	876.86
C	18+27.37	-20.42	876.91
D	18+37.61	-20.42	876.96
S. End S. Appr. Pav't	18+47.95	-20.42	877.01

LENGTH ALONG ARC, "Z"

Location	Arc Length "Z"
West Edge of Shoulder	9'-11 7/8"
West EOP, near Shoulder	9'-11 7/8"
West EOP, near Median	10'-0"
℄ Kreutzer Rd. & PGL	10'-0"
East EOP, near Median	10'-0 1/8"
East EOP, near Shoulder	10'-0 1/4"
East Edge of Shoulder	10'-0 1/4"

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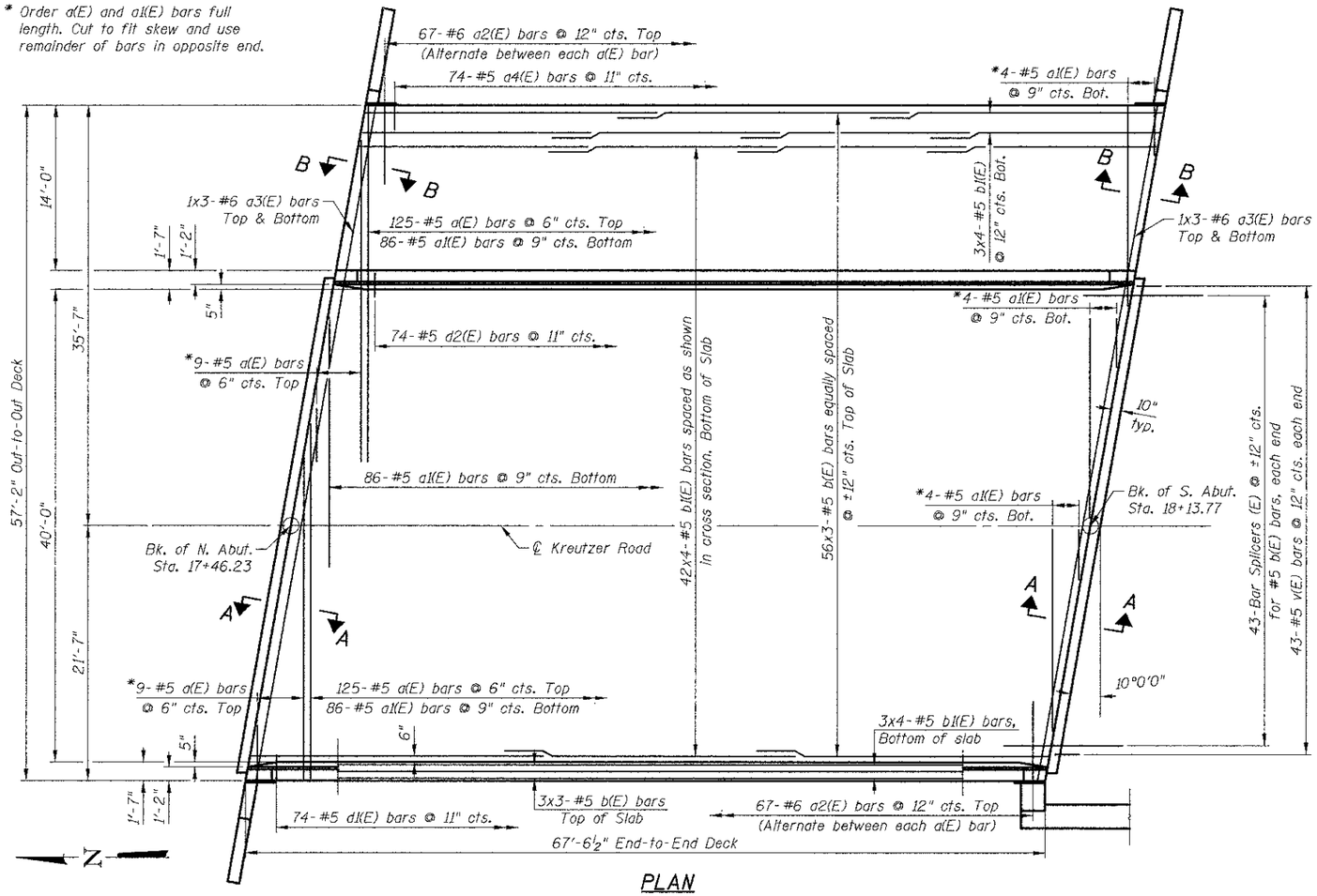
DRAWN	K. BOCHNOWSKI	REVISED	-
DESIGNED	M. LANGE	REVISED	-
CHECKED	G. HATLESTAD	REVISED	-
DATE	10/22/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

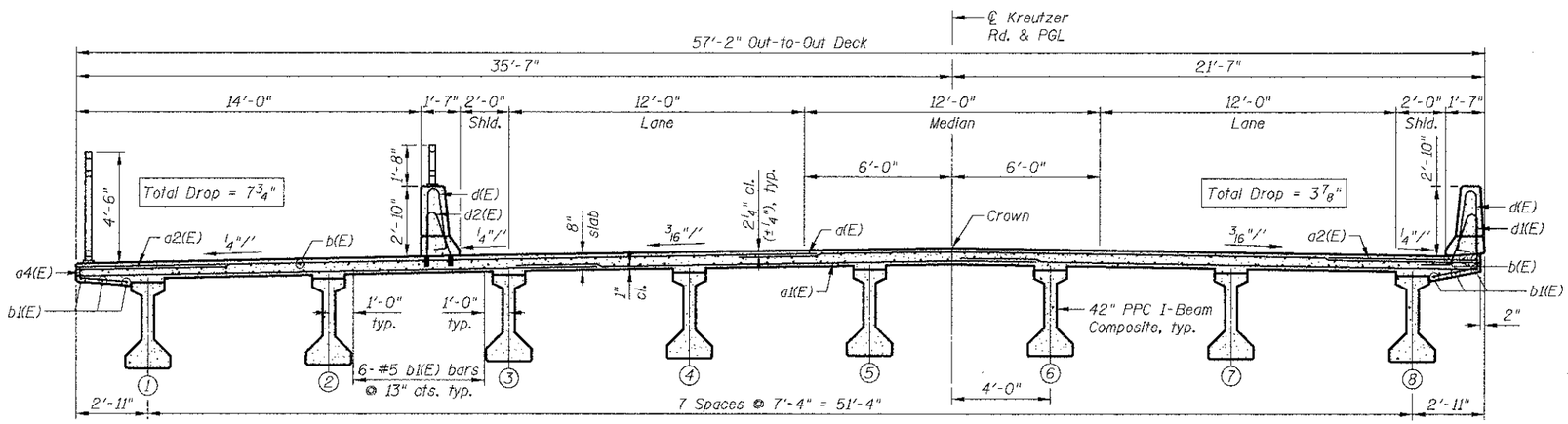
TOP OF APPROACH SLAB ELEVATIONS
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S5 OF S18 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	93
		CONTRACT NO. 63743		
ILLINOIS	FED. AID PROJECT			

* Order a(E) and a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



PLAN



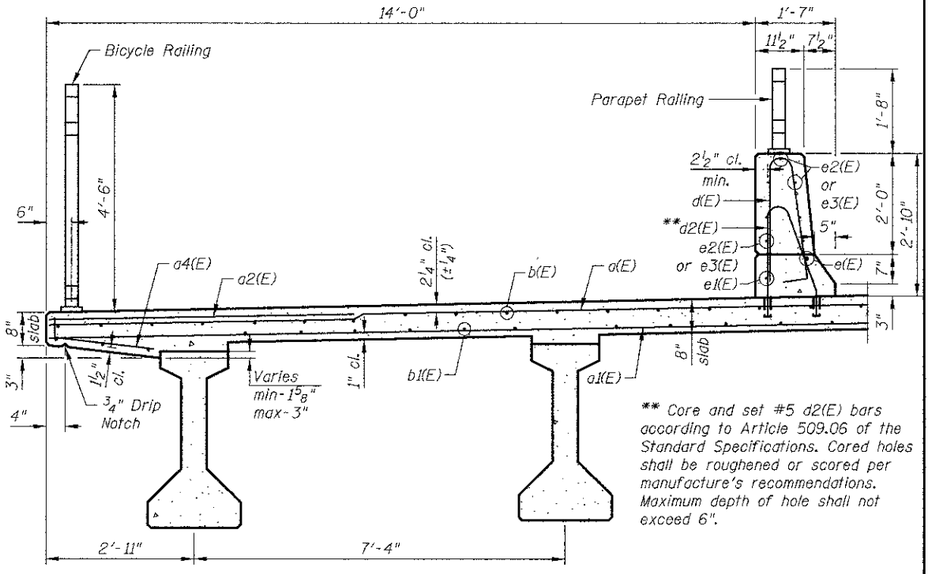
CROSS SECTION

(Looking South)

MINIMUM BAR LAP

(Deck)
#5 bar = 3'-3"
#6 bar = 3'-10"

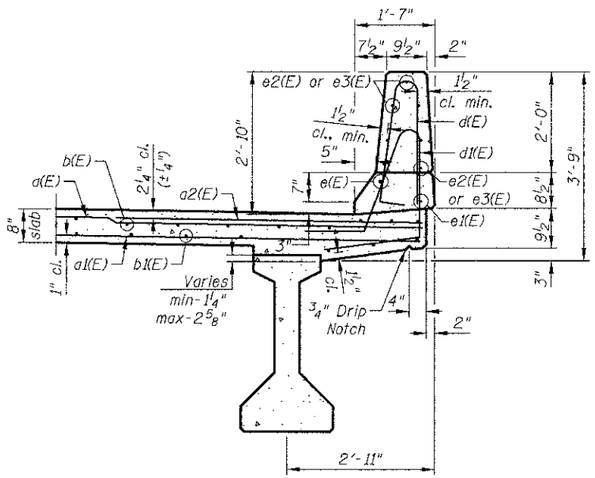
Notes:
See Sheet S7 for superstructure details and Bill of Material.
See Sheet S7 for Sections A-A & B-B and diaphragm details.
See sheet S7 for parapet reinforcement.
See sheet S16 for Bar Splicer details.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



** Core and set #5 d2(E) bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacture's recommendations. Maximum depth of hole shall not exceed 6".

SECTION THRU EAST PARAPET

(All edges have a ¾" chamfer)



SECTION THRU WEST PARAPET

(All edges have a ¾" chamfer)

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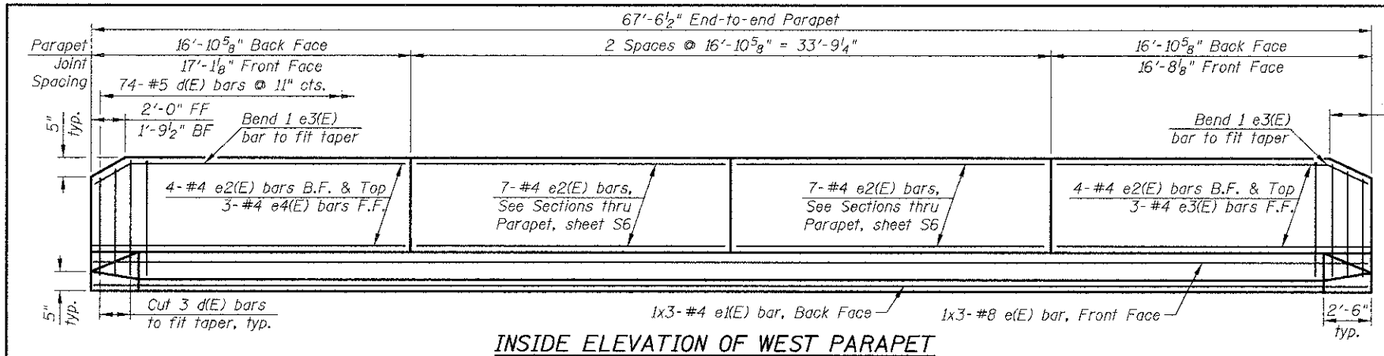
DESIGNED	M. LANGE	REVISED	-
CHECKED	G. HATLESTAD	REVISED	-
DATE	10/22/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN AND CROSS SECTION
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S6 OF S18 SHEETS

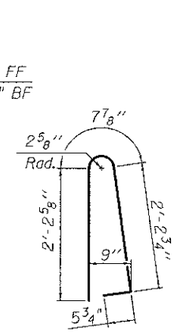
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	94
		CONTRACT NO. 63743		
		ILLINOIS FED. AID PROJECT		



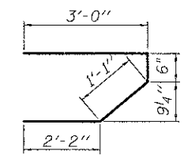
INSIDE ELEVATION OF WEST PARAPET

(Looking West)

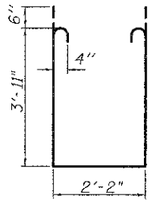
East Parapet is mirror image of West Parapet.
* Field cut to fit and use remainder of bars in opposite end of parapet.



BAR d(E)



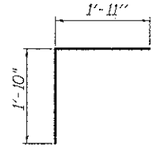
BAR s(E)



BAR s1(E)

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"
(Diaphragm)
#6 bar = 3'-4"

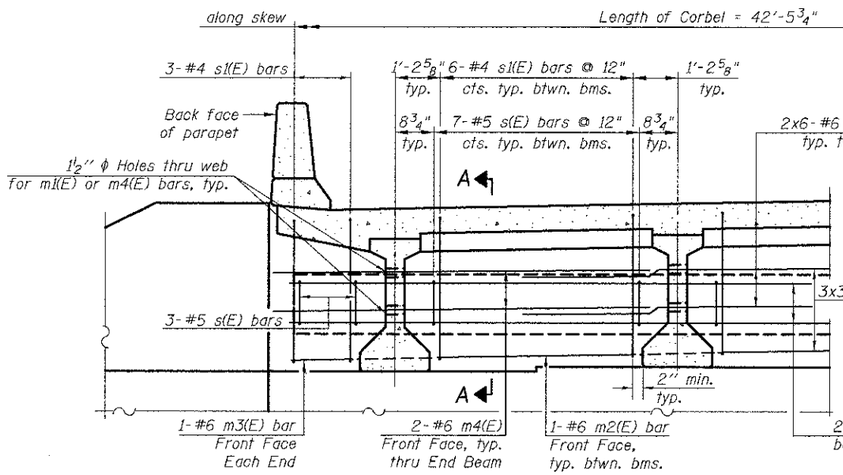


BAR v(E)

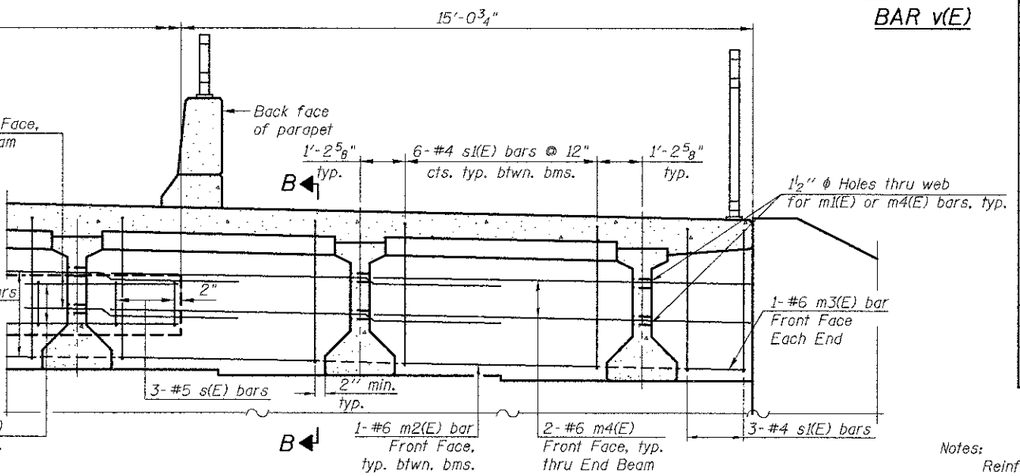
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	268	#5	30'-0"	—
a1(E)	270	#5	21'-1"	—
a2(E)	134	#6	6'-6"	—
a3(E)	12	#6	21'-10"	—
a4(E)	74	#5	2'-4"	L
b(E)	177	#5	24'-7"	—
b1(E)	192	#5	19'-3"	—
d(E)	148	#5	5'-7"	⌊
d1(E)	74	#5	7'-7"	⌊
d2(E)	74	#5	4'-8"	⌊
e(E)	6	#8	25'-11"	—
e1(E)	6	#4	23'-9"	—
e2(E)	22	#4	16'-7"	—
e3(E)	3	#4	16'-4"	—
e4(E)	3	#4	16'-9"	—
m(E)	18	#6	21'-7"	—
m1(E)	24	#6	10'-3"	—
m2(E)	14	#6	5'-3"	—
m3(E)	4	#6	1'-9"	—
m4(E)	8	#6	9'-11"	—
m5(E)	8	#6	22'-9"	—
s(E)	41	#5	6'-9"	⊐
s1(E)	48	#4	11'-0"	⊔
v(E)	86	#5	3'-9"	⌐

Item	Unit	Quantity
Concrete Superstructure	Cu. Yd.	155.0
Bridge Deck Grooving	Sq. Yd.	406
Protective Coat	Sq. Yd.	485
Reinforcement Bars, Epoxy Coated	Pound	29,680



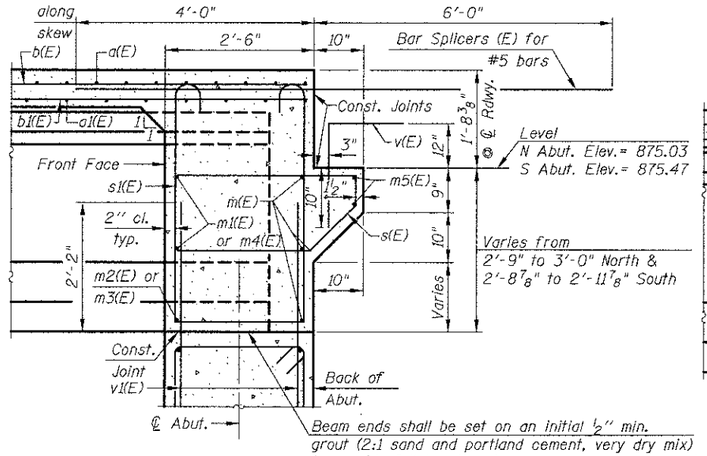
ELEVATION AT BRIDGE



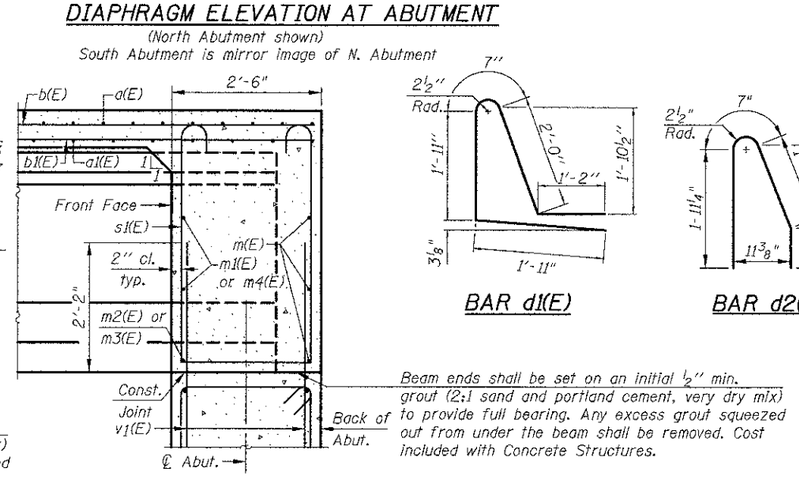
ELEVATION AT BIKEPATH

DIAPHRAGM ELEVATION AT ABUTMENT

(North Abutment shown)
South Abutment is mirror image of N. Abutment



SECTION A-A

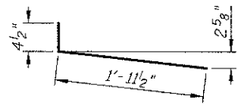


SECTION B-B

Dimensions at right angles to abutment, except as shown.

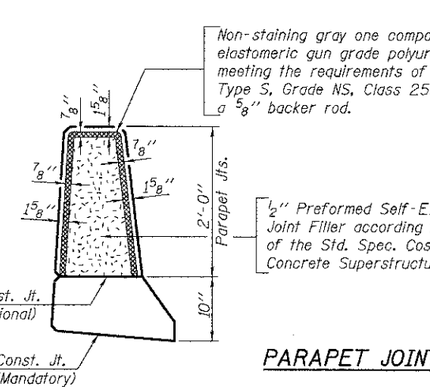
BAR d1(E)

BAR d2(E)



BAR a4(E)

Notes:
Reinforcement bars in diaphragm are billed with superstructure.
Concrete in diaphragm is included with Concrete Superstructure.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
Bars indicated thus 1x2- #5 etc. indicates 1 line of bars with 2 lengths per line.
FF = Front Face
BF = Back Face



PARAPET JOINT DETAILS

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DESIGNED - M. LANGE	REVISED -	
CHECKED - G. HATLESTAD	REVISED -	
DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. 57 OF 518 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	95
		CONTRACT NO. 63743		
		ILLINOIS FED. AID PROJECT		

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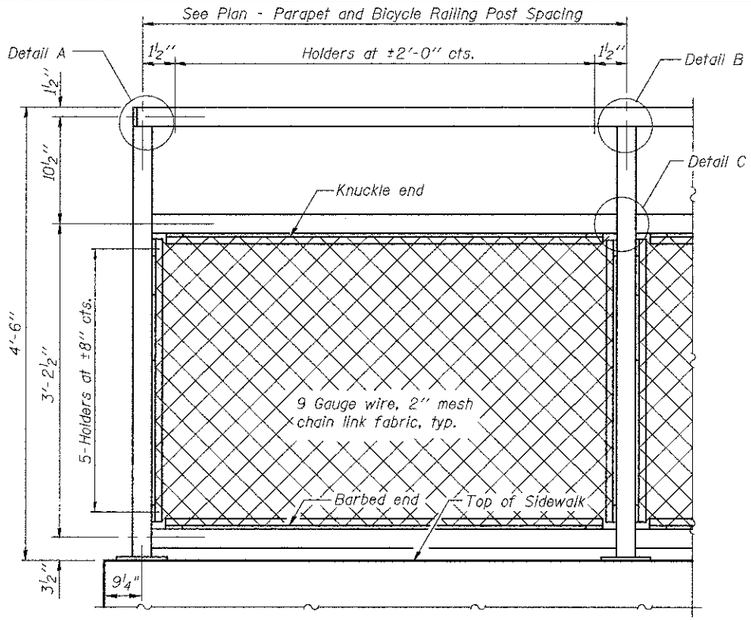
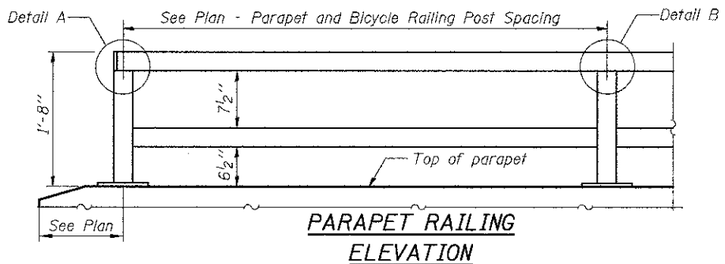
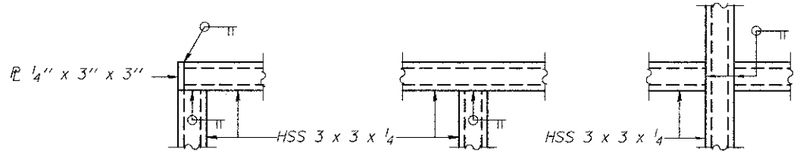


BICYCLE RAILING



PARAPET RAILING ELEVATION

(Inside Face of Two Element Rail)

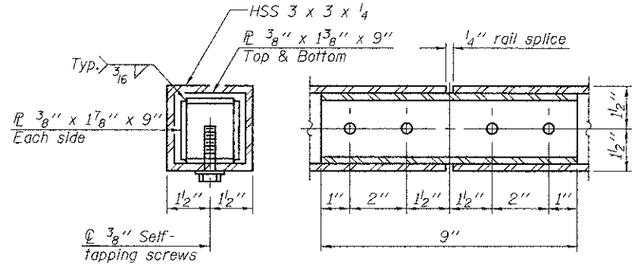


DETAIL A

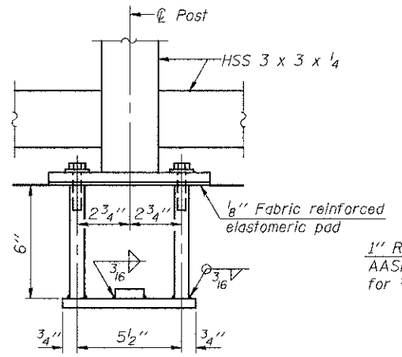
DETAIL B

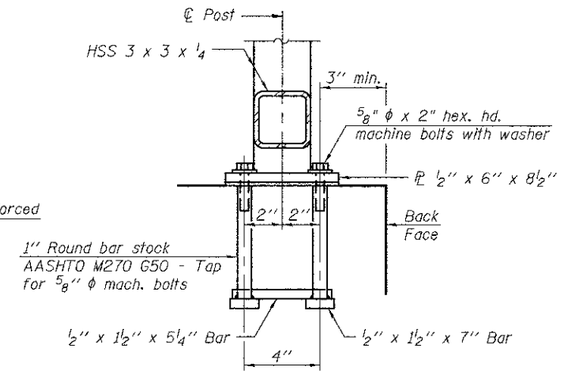
DETAIL C

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



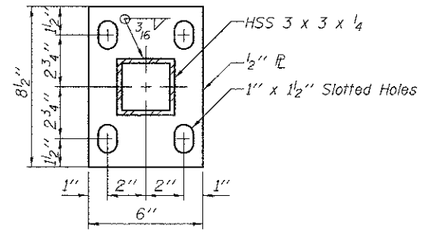
RAIL SPLICE



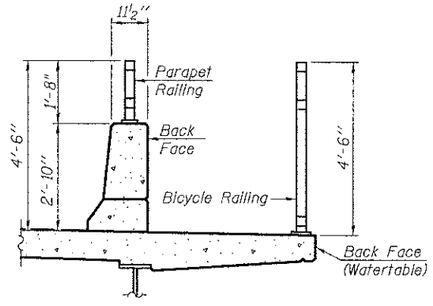


ANCHOR BOLT DETAILS

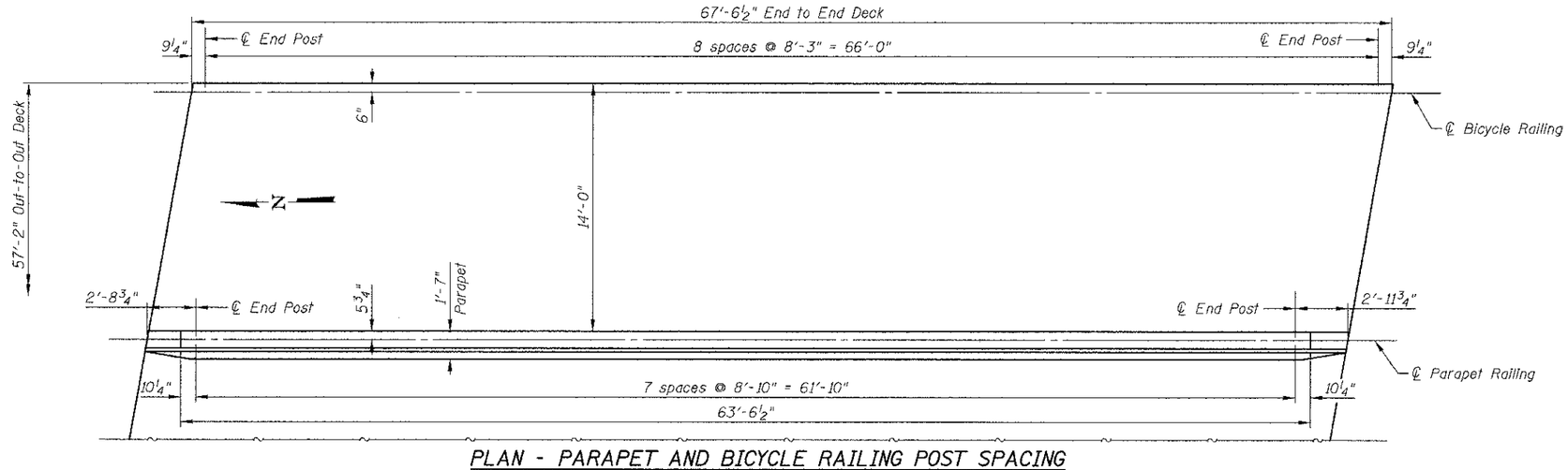
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BASE ℄



SECTION THRU DECK



PLAN - PARAPET AND BICYCLE RAILING POST SPACING

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	66
Parapet Railing	Foot	62

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DESIGNED - M. LANGE	REVISED -	
CHECKED - G. HATLESTAD	REVISED -	
DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. 58 OF 518 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	96
		CONTRACT NO. 63743		
	ILLINOIS FED. AID PROJECT			

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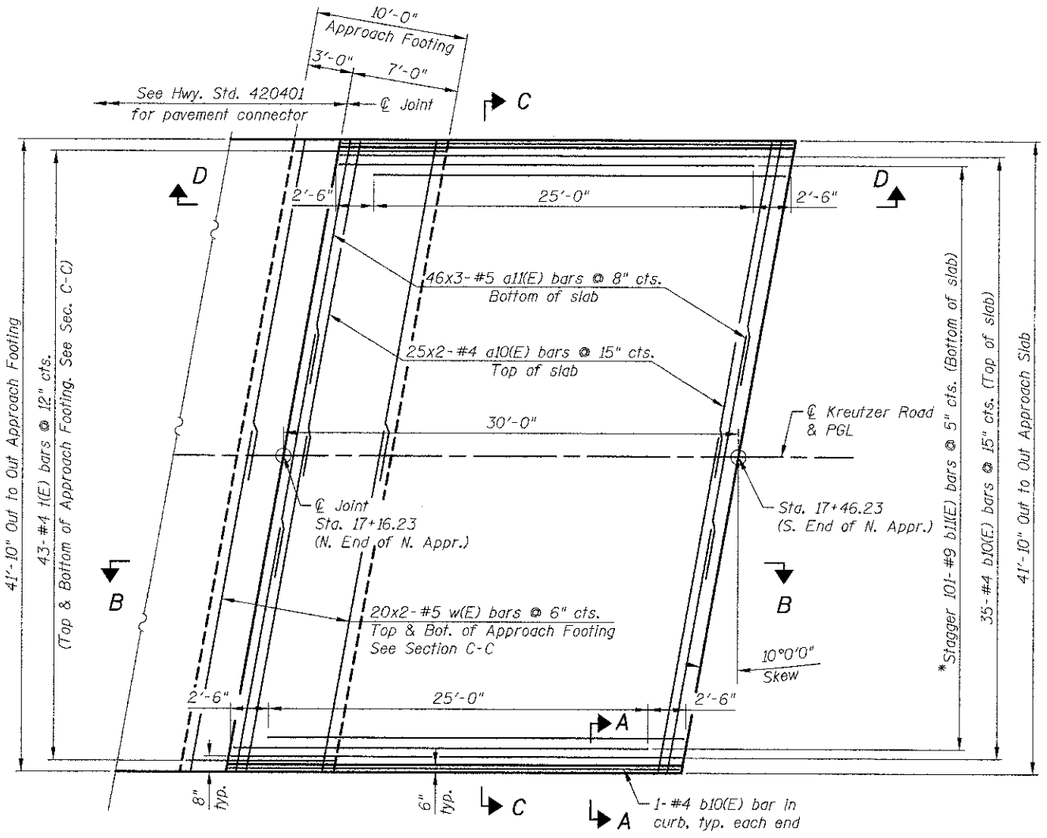
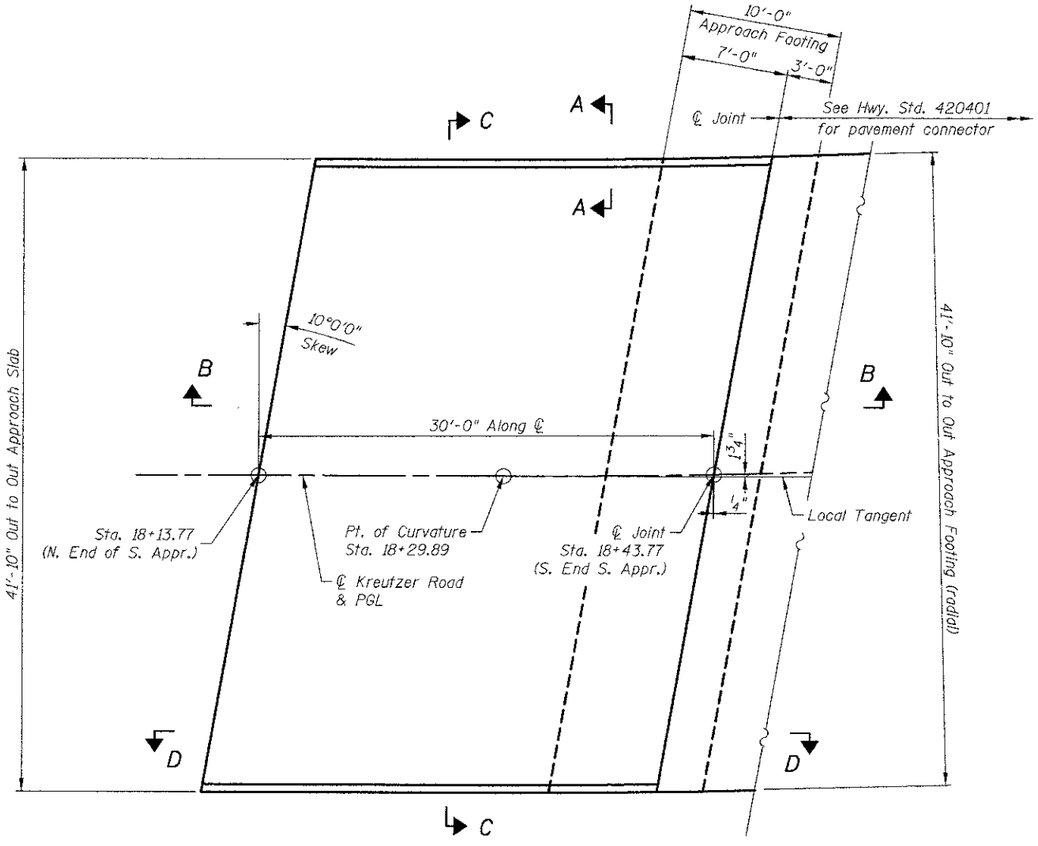
10/18/2012



PLAN - NORTH APPROACH



PLAN - SOUTH APPROACH

(See North Approach for remainder of dimensions and reinforcement)

N

* Tilt #9 b11(E) bars as required to maintain clearance.

MINIMUM BAR LAP

(Approach Slab)

#4 bar = 2'-7"
#5 bar = 3'-3"

Notes:

a10(E) and a11(E) bar spacings measured along ℄ roadway.
See sheet S10 for Views A-A & D-D and Sections B-B & C-C.
See sheet S10 for Bill of Material.

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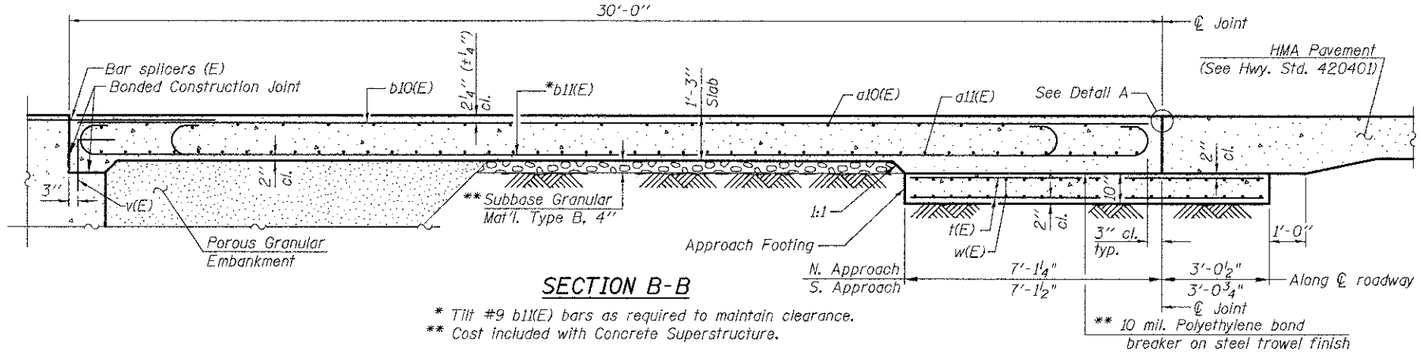
DESIGNED	M. LANGE	REVISED	-
CHECKED	G. HATLESTAD	REVISED	-
DATE	10/22/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

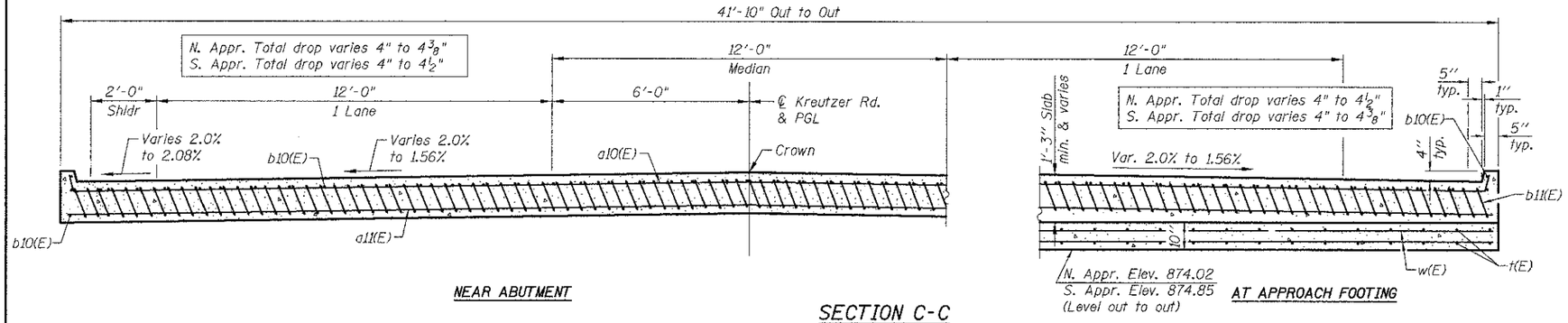
BRIDGE APPROACH SLAB
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. 59 OF 518 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	97
		CONTRACT NO. 63743		
ILLINOIS FED. AID PROJECT				



SECTION B-B

* Tilt #9 b11(E) bars as required to maintain clearance.
** Cost included with Concrete Superstructure.



NEAR ABUTMENT

AT APPROACH FOOTING

SECTION C-C

(See Plan for dimensions not shown)

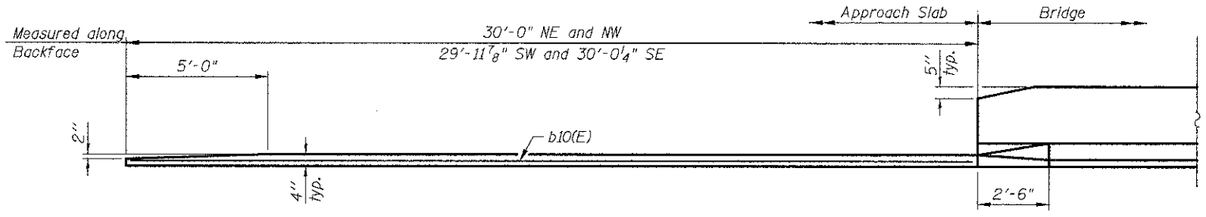
Notes:
Approach slab concrete and curb shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet S7.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For Bar Splicer details, see sheet S16.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment and drainage treatment details, see sheet S2.

TWO APPROACHES BILL OF MATERIAL

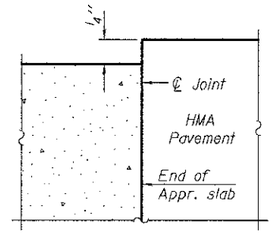
Bar	No.	Size	Length	Shape
a10(E)	100	#4	22'-8"	
a11(E)	276	#5	16'-3"	
b10(E)	74	#4	29'-8"	
b11(E)	202	#9	29'-9"	
t(E)	172	#4	9'-10"	
w(E)	160	#5	22'-9"	

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	26.3
Concrete Superstructure	Cu. Yd.	122.0
Bridge Deck Grooving	Sq. Yd.	273
Protective Coat	Sq. Yd.	283
Reinforcement Bars, Epoxy Coated	Pound	33,020

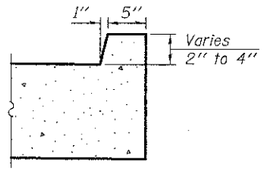
Bars indicated thus 1x3-#8 etc. indicates 1 line of bars with 3 lengths per line.



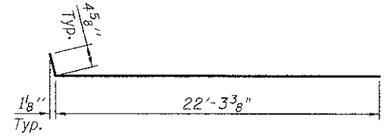
VIEW D-D



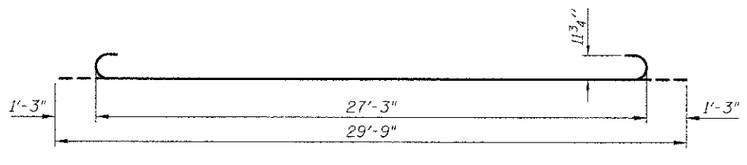
DETAIL A



VIEW A-A



BAR a10(E)



BAR b11(E)

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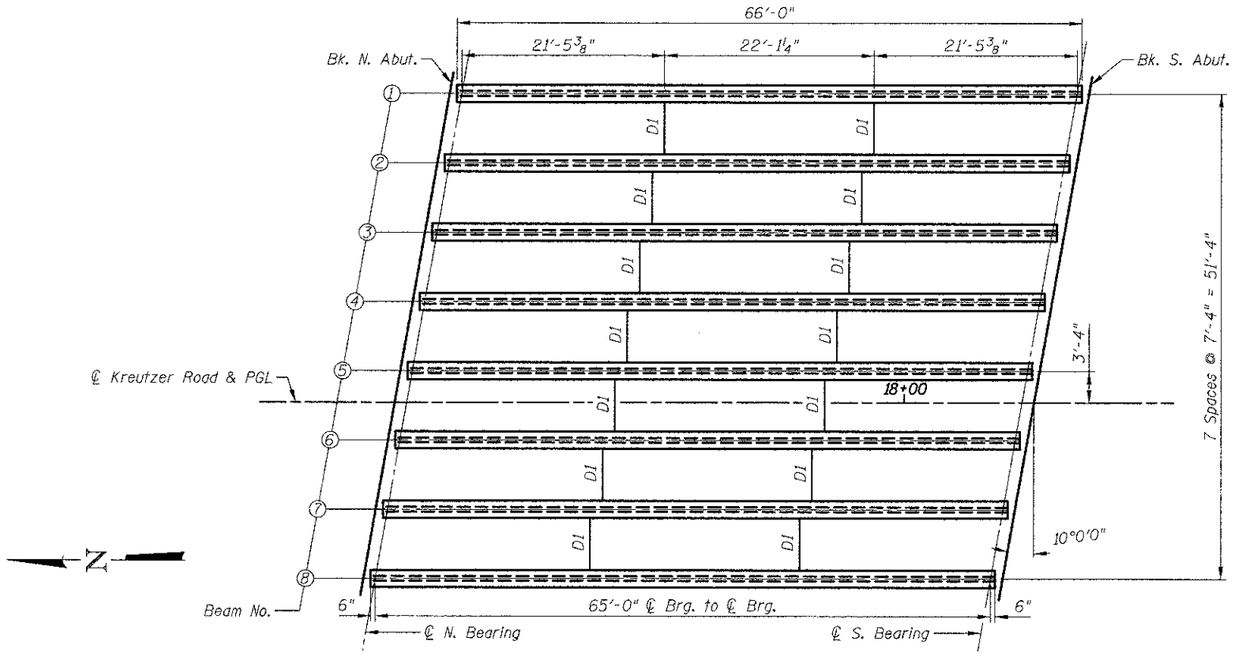
CHECKED - G. HATLESTAD	REVISED -	
DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S10 OF S18 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	98
		CONTRACT NO. 63743		
	ILLINOIS FED. AID PROJECT			

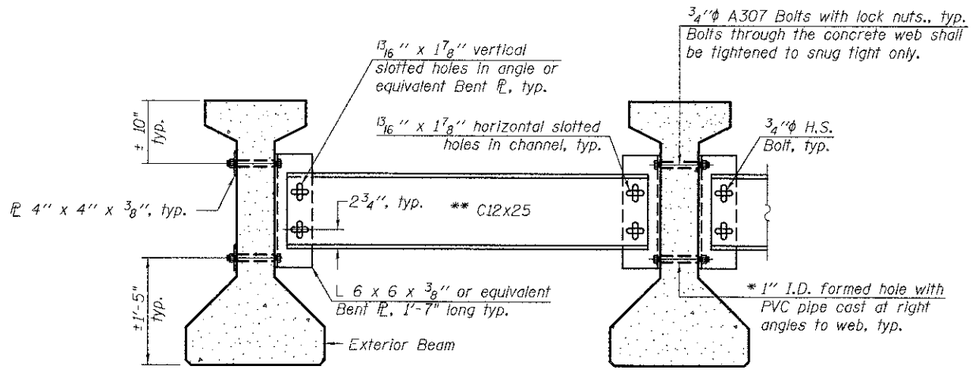


PLAN

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

INTERIOR BEAM MOMENT TABLE		0.5 Span
I	(in^4)	90,956
I'	(in^4)	286,708
S_b	(in^3)	5,153
S_b'	(in^3)	8,872
S_t	(in^3)	3,736
S_t'	(in^3)	29,608
DC1	(k/')	1.252
M_{DC1}	('k)	661.3
DC2	(k/')	0.125
M_{DC2}	('k)	66.0
DW	(k/')	0.367
M_{DW}	('k)	193.8
M_{L+IM}	('k)	1,040.8

INTERIOR BEAM REACTION TABLE		Abut.
R_{DC1}	(k)	40.7
R_{DC2}	(k)	4.1
R_{DW}	(k)	11.9
R_{L+IM}	(k)	78.9
R_{Total}	(k)	135.6



Notes:
All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
Two hardened washers are required for each set of oversized holes.
All holes shall be 15/16"ϕ unless otherwise noted.
5/16" x 3" x 3" plate washers are required over all slotted holes.
All bolts shall be galvanized according to AASHTO M232.
Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.
All structural steel shall be AASHTO M270 Grade 36.

* Fabricator shall locate to miss strands within permissible tolerances.

** Alternate C12x30 channels are permitted to facilitate material acquisition.

D1 PERMANENT BRACING DETAILS FOR 42" PPC I-BEAMS

(No. Required = 14)

CIVILTECH
450 E Devon Ave, Suite 300
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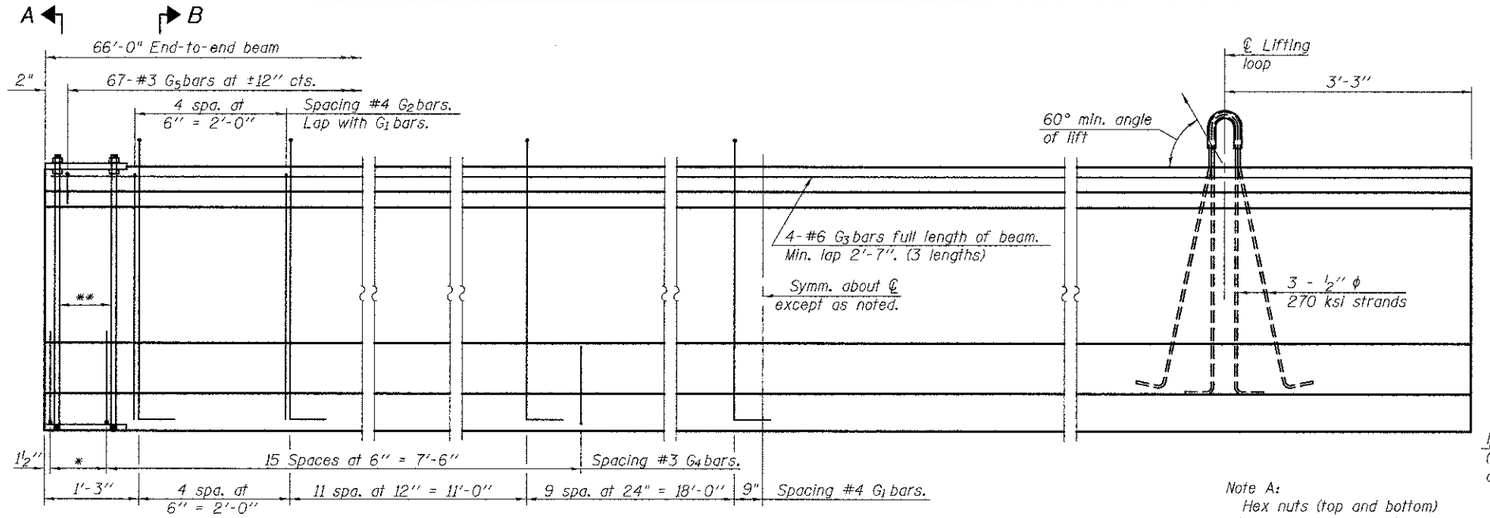
DRAWN - K. BOCHNOWSKI	REVISED -	
DESIGNED - M. LANGE	REVISED -	
CHECKED - G. HATLESTAD	REVISED -	
DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

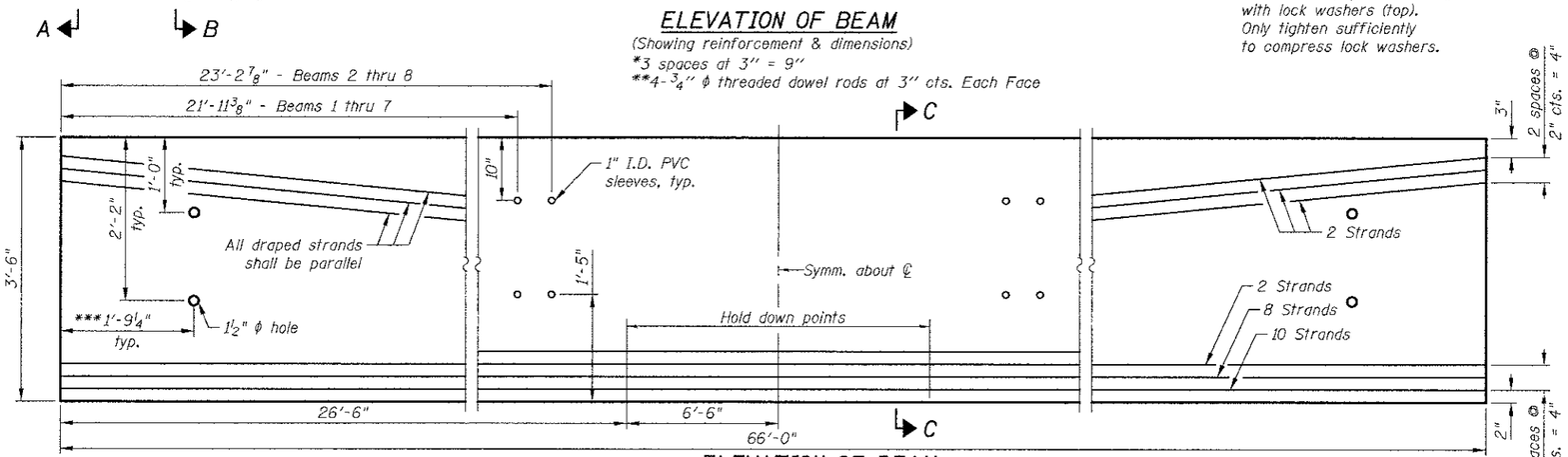
FRAMING PLAN
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. S11 OF S18 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	99
		CONTRACT NO. 63743		
	ILLINOIS FED. AID PROJECT			



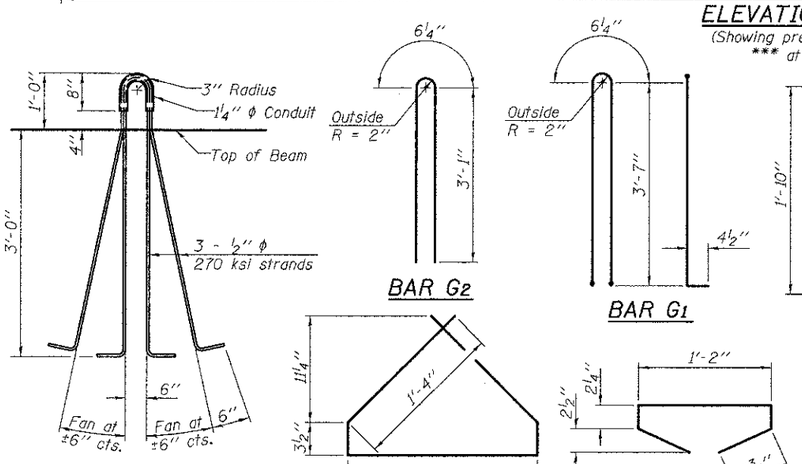
ELEVATION OF BEAM

(Showing reinforcement & dimensions)
*3 spaces at 3" = 9"
**4-¾" ϕ threaded dowel rods at 3" cts. Each Face



ELEVATION OF BEAM

(Showing prestressing steel)
*** at ℄ of beam



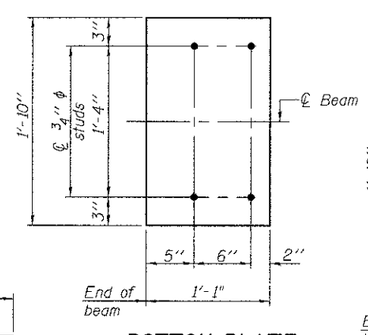
LIFTING LOOP DETAIL

BAR G2

BAR G1

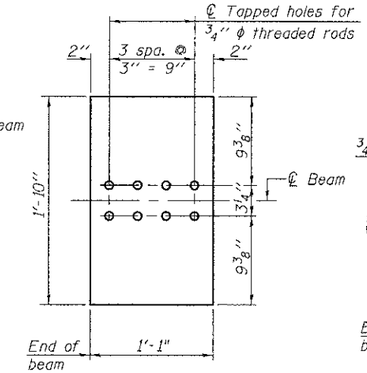
BAR G4

BAR G5



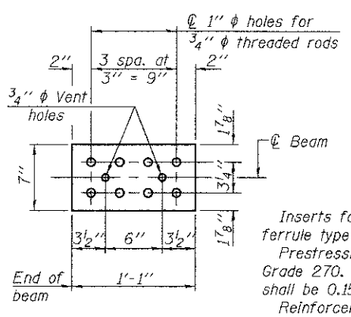
BOTTOM PLATE

(Showing studs)

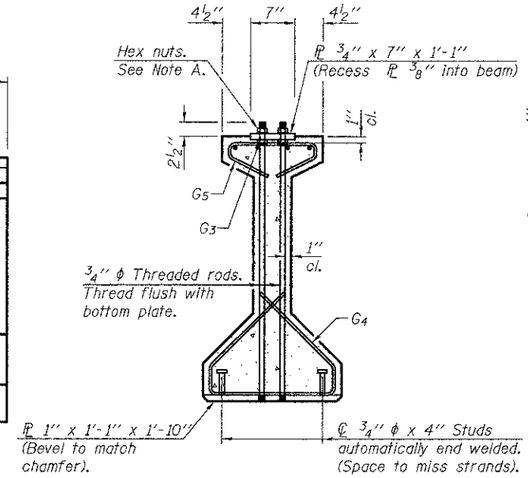


BOTTOM PLATE

(Showing threaded rods)

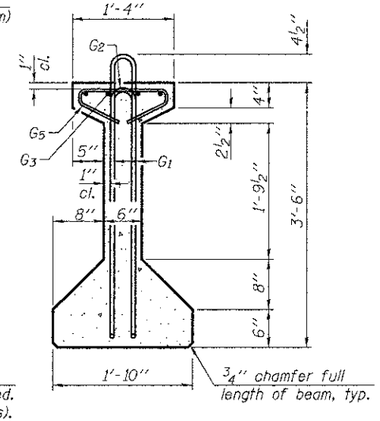


TOP PLATE

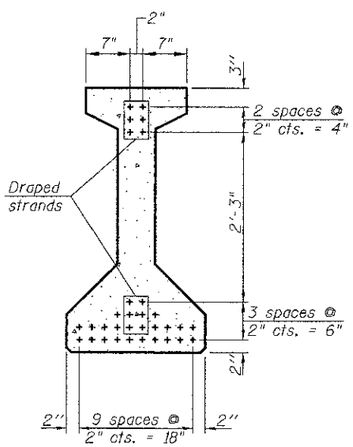


SECTION A-A

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



SECTION B-B



SECTION C-C

***BAR LIST ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	58	#4	8'-5"	
G_2	10	#4	6'-8"	
G_3	12	#6	23'-8"	
G_4	38	#3	4'-11"	
G_5	67	#3	2'-6"	

***For information only

BILL OF MATERIAL

Item	Unit	Quantity
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	Ft.	528

NOTES

Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

Threaded rods shall be ASTM F 1554 Grade 55.

Required release strength, f'ci, shall be 6,000 psi.

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DESIGNED	M. LANGE	REVISED	-
CHECKED	G. HATLESTAD	REVISED	-
DATE	10/22/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM DETAILS
KREUTZER ROAD OVER S. BR. KISHWAUKEE RIVER
STRUCTURE NO. 056-6010
SHEET NO. 512 OF 518 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4068	07-00031-00-PV	MCHENRY	167	100
		CONTRACT NO. 63743		
	ILLINOIS FED. AID PROJECT			

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10/16/2012