

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	1
FEDERAL ROAD DISTRICT NO. 1 ILLINOIS		FEDERAL AID PROJECT		

SHEET NO. DESCRIPTION

- 1 TITLE SHEET
- 2 - 3 GENERAL NOTES AND SPECIFICATIONS AND LANDSCAPE GENERAL NOTES
- 4 - 5 SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7 ALIGNMENT, TIES AND BENCHMARKS
- 8 - 10 EXISTING CONDITIONS AND REMOVAL PLAN AND GEOMETRY PLAN
- 11 - 12 UTILITY PLAN AND PROFILE
- 13 - 17 GRADING PLAN
- 18 PAVEMENT MARKING AND SIGNAGE PLAN
- 19 - 21 TREE PRESERVATION AND REMOVAL PLAN
- 22 - 24 LANDSCAPE PLAN
- 25 - 27 LANDSCAPE ENLARGEMENT PLAN
- 28 TREE PRESERVATION DETAILS
- 29 PAVING AND SITE DETAILS
- 30 SITE FURNISHING DETAILS
- 31 - 33 SITE DETAILS
- 34 PLANTING DETAILS
- 35 - 36 IRRIGATION PLAN
- 37 IRRIGATION DETAILS
- 38 TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN - WILSON ST. AT BATAVIA AV.
- 39 TEMPORARY CABLE PLAN - WILSON ST AT BATAVIA AV.
- 40 TRAFFIC SIGNAL MODERNIZATION PLAN - WILSON ST. AT BATAVIA AV.
- 41 CABLE PLAN - WILSON ST. AT BATAVIA AV.
- 42 TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN - WILSON ST. AT SHUMWAY AV.
- 43 TEMPORARY CABLE PLAN - WILSON ST AT SHUMWAY AV.
- 44 TRAFFIC SIGNAL MODERNIZATION PLAN - WILSON ST. AT SHUMWAY AV.
- 45 CABLE PLAN - WILSON ST. AT SHUMWAY AV.
- 46 INTERCONNECT PLAN - WILSON ST., BATAVIA AV. TO RIVER RD.
- 47 INTERCONNECT SCHEMATIC - WILSON ST., BATAVIA AV. TO RIVER RD.
- 48 MAST ARM MOUNTED STREET NAME SIGNS DETAILS
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PLAN FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. ROUTE 1441 (WILSON STREET)  
IL. ROUTE 31 TO ISLAND AVE./SHUMWAY AVE.  
STREETScape AND TRAFFIC  
SIGNAL INTERCONNECT AND  
MODERNIZATION  
SECTION 12-00073-01-TL  
PROJECT NO. TE-00D1(891)  
CITY OF BATAVIA  
KANE COUNTY  
JOB NO: C-91-326-12



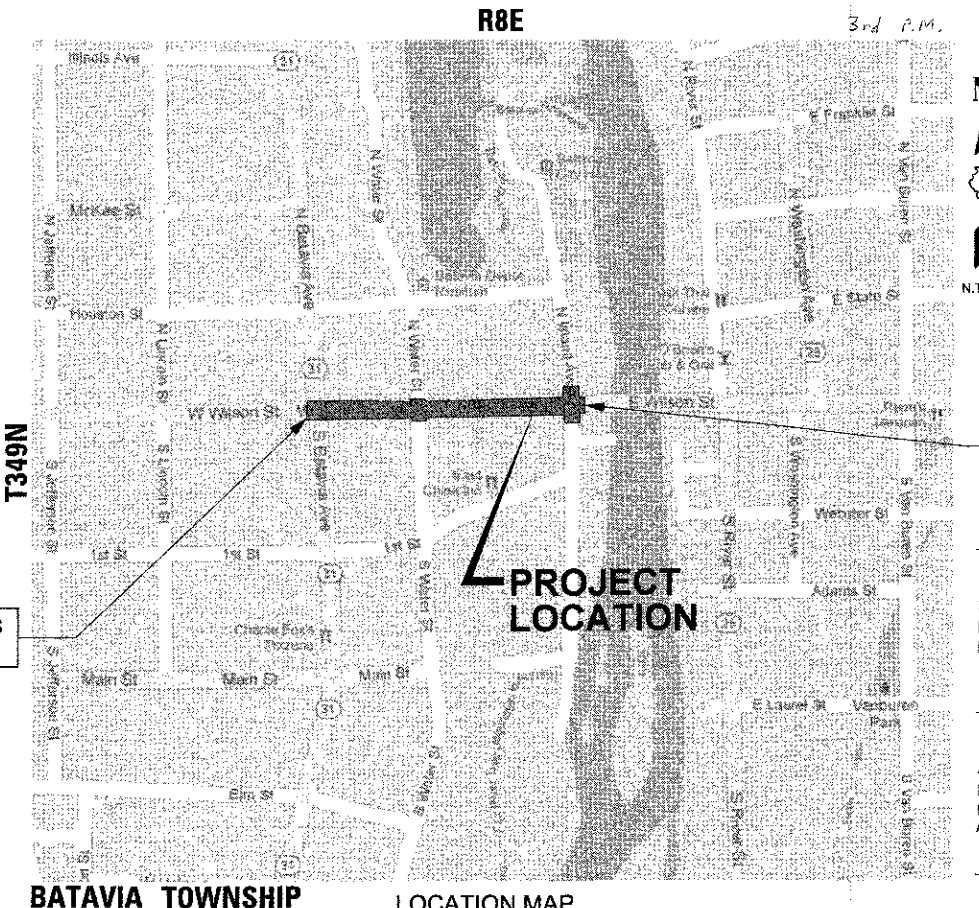
LOCATION OF SECTION INDICATED THUS: -

**DESIGN DESIGNATION**  
F.A.U. ROUTE 1441 (WILSON STREET)  
ARTERIAL

**TRAFFIC DATA**  
F.A.U. (WILSON STREET)  
(2010) = 15,000

**POSTED SPEED LIMIT**  
F.A.U. (WILSON STREET) = 25 MPH

**DESIGN SPEED**  
F.A.U. (WILSON STREET) = 25 MPH

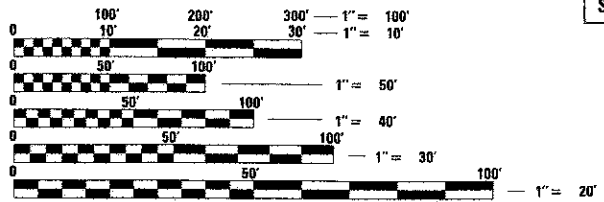


BATAVIA TOWNSHIP LOCATION MAP

PROJECT LOCATED IN THE CITY OF BATAVIA

CALL JULIE 811  
WITH THE FOLLOWING:

COUNTY KANE  
CITY-TOWNSHIP CITY OF BATAVIA  
SECTION & RANGE SEC. 22, T39N, R8E, 3RD PM  
48 HOURS BEFORE YOU DIG.  
EXCLUDING SAT., SUN., & HOLIDAYS



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.

CONTRACT NO. 63763

GROSS LENGTH = 1,204.28 FT. = 0.228 MILE  
NET LENGTH = 1,204.28 FT. = 0.228 MILE

END IMPROVEMENTS STA. 62 + 23.72

BEGIN IMPROVEMENTS STA. 50 + 19.44

*Lee M. Fell*  
ENGINEER DATE 10-19-12

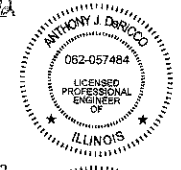
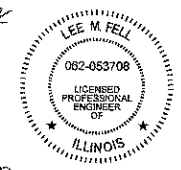
LEE M. FELL, P.E.  
ILLINOIS REGISTRATION No. 062-053708  
EXPIRATION DATE: 11/13

*Anthony J. Dericco*  
ENGINEER DATE 10-19-12

ANTHONY J. DERICCO, P.E.  
ILLINOIS REGISTRATION No. 062-057484  
EXPIRATION DATE: 11/13  
APPLIES TO SHEETS 59 - 75

*Brian R. Desalle*  
ENGINEER DATE 10/19/12

BRIAN R. DESALLE, P.E.  
ILLINOIS REGISTRATION No. 062-058688  
EXPIRATION DATE: 11/13  
APPLIES TO SHEETS 38 - 58



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED *Neil Berg* 2012, 09-19-12  
CITY OF BATAVIA CITY ENGINEER

PASSED *November 8* 2012  
*Chris C. Holt*  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW *November 8* 2012  
*John Fortson*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

PROFESSIONAL DESIGN FIRM NO. 184-001175  
EXPIRATION DATE: 04/30/13

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PROGRAM AND OFFICE ENGINEER; CHARLES F. RIDDLE, P.E. (847) 705-4406

**1. STANDARD SPECIFICATIONS**

EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK PROPOSED HEREON SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:

- 1.1 STANDARD SPECIFICATIONS FOR EARTHWORK, PAVEMENT AND SIDEWALKS: ALL EARTHWORK, CURBS AND SIDEWALKS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY I.D.O.T., LATEST ADDITION AND WITH ANY SPECIAL PROVISIONS SPECIFIED HEREIN TO SAID STANDARD SPECIFICATION.
- 1.2 STANDARD SPECIFICATIONS FOR SANITARY SEWERS, STORM SEWERS AND WATER MAINS: ALL SANITARY SEWER, STORM SEWER AND WATER MAIN CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" LATEST ADDITION AND WITH ANY SPECIAL PROVISIONS SPECIFIED HEREIN TO SAID STANDARD SPECIFICATIONS.
- 1.3 CITY OF BATAVIA SUBDIVISION CONTROL ORDINANCE DATED MARCH 1989, INCLUDING ALL PERTINENT ADDENDA AND ALL APPLICABLE CITY OF BATAVIA STANDARDS.
- 1.4 THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" AS PUBLISHED BY I.D.O.T., LATEST ADDITION.
- 1.5 THE "PROCEDURES AND STANDARDS FOR URBAN EROSION CONTROL IN ILLINOIS" AS PUBLISHED BY THE ILLINOIS CONSERVATION DISTRICT.
- 1.6 CONFLICTS: IN THE CASE OF CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS SHOWN HEREIN AND THE APPLICABLE STANDARD SPECIFICATIONS, THESE PLANS AND SPECIFICATIONS SHOWN HEREIN SHALL TAKE PRECEDENCE, NO SUBSTITUTIONS IN MATERIALS, DETAILS OR ANY OTHER PART OF THE WORK SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

**2. GENERAL**

- 2.1 HEALTH AND SAFETY: THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS (SERIES 1926) AND THE APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA STANDARDS OF THE WILLIAMS STEGER OCCUPATIONAL HEALTH STATE AND SAFETY ACT OF 1970) REVISED.
- 2.2 BONDING AND LICENSING: THE CONTRACTOR AND HIS INDIVIDUAL SUBCONTRACTORS PRIOR TO THE COMMENCEMENT OF WORK SHALL OBTAIN ALL APPLICABLE CITY PERMITS, LICENSES AND BONDS.
- 2.3 THE CONTRACTOR SHALL PERFORM ALL WORK INDICATED OR IMPLIED IN THE CONTRACT DOCUMENTS, ALL WORK NOT SPECIFIED, BUT REQUIRED TO COMPLETE THE PROJECT, INCLUDING ACCESSORIES AND APPURTENANCES, SHALL BE PERFORMED BY THE CONTRACTOR IN A SATISFACTORY MANNER. TREE TRIMMING OR TREE REMOVAL SHALL BE PERFORMED BY A LICENSED ARBORIST, AND APPROVED BY THE ENGINEER OR ENGINEER'S REP.
- 2.4 ELECTRIC, TELEPHONE, NATURAL GAS AND OTHER UTILITY COMPANIES HAVE UNDERGROUND AND/OR OVERHEAD SERVICE FACILITIES IN THE VICINITY OF THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR MAINTENANCE AND PRESERVATION OF THE FACILITIES. THE CONTRACTOR SHALL CALL J.U.L.L.I.E. AT 800-892-0123 FOR UTILITY LOCATIONS.
- 2.5 NEITHER THE ENGINEER NOR THE CITY OF BATAVIA ARE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY CONTRACTOR.
- 2.6 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT THE ARTICLE 105.06 OF THE I.D.O.T. STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES IRRESPECTIVE OF THE AMOUNT OF WORK SUBJECT. THE SUPERINTENDENT SHALL BE ABLE TO SPEAK ENGLISH, HE SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS THE AGENT OF THE CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 109.08.
- 2.7 THE CONTRACTOR, ENGINEER AND DEVELOPER SHALL BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.
- 2.8 IN THE EVENT OF A DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- 2.9 IN THE EVENT OF CONFLICTING SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- 2.10 PRIOR TO THE START OF CONSTRUCTION, THE ENGINEER, THE PROJECT ENGINEER AND THE GENERAL CONTRACTOR SHALL ATTEND A PRECONSTRUCTION MEETING. THE PURPOSE OF THE MEETING IS TO REVIEW ACCEPTABLE SITE DEVELOPMENT AND CONSTRUCTION PRACTICES IN ACCORDANCE WITH THE CONSTRUCTION CONTROL PLAN AND CITY ORDINANCES AND POLICIES.
- 2.11 GRANULAR TRENCH BACKFILL: ALL TRENCH SECTIONS FOR STORM SEWERS, SANITARY SEWERS, WATER MAINS, ELECTRICAL CONDUITS AND ALL OTHER UNDERGROUND SERVICE LINES LOCATED WITHIN EXISTING AND PROPOSED PAVEMENT AREAS OR AS OTHERWISE NOTED ON THE PLAN SHALL BE BACKFILLED TO THE PROPER SUBGRADE WITH SELECTED GRANULAR TRENCH BACKFILL MATERIAL CA-6 CRUSHED LIMESTONE. THE GRANULAR TRENCH MATERIAL SHALL BE PLACED IN LAYERS NO THICKER THAN TWELVE INCHES AND THOROUGHLY COMPACTED IN PLACE ACCORD TO I.D.O.T. STANDARD SPECIFICATIONS METHOD 1. USE CA-7 OPEN GRADED FOR PERFORATED PVC, CATCH BASINS AND INLETS.
- 2.12 FINAL ADJUSTMENTS OF FRAMES, LIDS AND GRATES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING AND ADJUSTING FRAMES AND GRATES ON MANHOLES, INLETS AND VALVE VAULTS TO THEIR FINISHED ELEVATIONS OR AS DIRECTED BY THE ENGINEER.
- 2.13 EXISTING STREET CLEANLINESS: THE CONTRACTOR(S) SHALL KEEP EXISTING ADJACENT STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS. CLEAN PAVEMENTS ON A DAILY BASIS OR MORE OFTEN WHEN NECESSARY AS DIRECTED BY THE ENGINEER.

USE OF CDD FILL OPERATIONS: PER PUBLIC ACT 97-0137, IF THE CONTRACTOR CHOOSES TO DISPOSE OF UNCONTAMINATED SOIL OR UNCONTAMINATED SOIL MIXED WITH CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CDD) AT A CDD FILL OPERATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL NECESSARY FIELD AND LABORATORY ANALYSIS AND TO OBTAIN THE LICENSED PROFESSIONAL ENGINEER'S CERTIFICATION REQUIRED AS PER PUBLIC ACT 96-1416 TO USE THE SITE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION OR RELATED EXCAVATION OR REMOVAL ITEM, AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

- 2.14 CONCRETE: ALL CONCRETE USED IN CONSTRUCTING THE IMPROVEMENTS SHALL BE CLASS "SI", SIX (6) BAG MIX, AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3500 PSI AFTER 14 DAYS.
- 2.15 UNDERGROUND UTILITY INSPECTION: PRIOR TO THE PLACEMENT OF BACKFILL, THE INSTALLATION OF ALL UNDERGROUND UTILITY LINES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER.
- 2.16 EXISTING FIELD TILES: THE LOCATION OF ANY EXISTING FIELD TILES ENCOUNTERED DURING EXCAVATION SHOULD IMMEDIATELY BE FLAGGED ON SITE AND MARKED ON THE CONTRACTOR'S RECORD PLAN SET. THE CONTRACTOR SHALL RECONNECT ALL FIELD TILE OR CONNECT FIELD TILE TO THE PROPOSED STORM SEWER SYSTEM IN A MANNER ACCEPTABLE TO THE ENGINEER.
- 2.17 BEFORE ACCEPTANCE BY THE ENGINEER AND FINAL PAYMENTS, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS.
- 2.18 UNLAWFUL ACTIVITIES--DRAINAGE FACILITIES--EARTHEN BERMS: IT IS UNLAWFUL FOR ANY PERSON TO CONSTRUCT OR CAUSE TO BE CONSTRUCTED ANY DRAINAGE FACILITY FOR THE PURPOSE OF THE DETENTION OR RETENTION OF WATER WITHIN A DISTANCE OF 10 FEET PLUS ONE AND ONE-HALF TIMES THE DEPTH OF ANY DRAINAGE FACILITY ADJACENT TO THE RIGHT OF WAY OF ANY PUBLIC HIGHWAY WITHOUT THE WRITTEN PERMISSION OF THE HIGHWAY AUTHORITY HAVING JURISDICTION OVER THE PUBLIC HIGHWAY. IT IS UNLAWFUL FOR ANY PERSON TO CONSTRUCT OR CAUSE TO BE CONSTRUCTED ANY EARTHEN BERM SUCH THAT THE TOE OF SUCH BERM WILL BE NEARER THAN 10 FEET TO THE RIGHT-OF-WAY OF ANY PUBLIC HIGHWAY WITHOUT THE WRITTEN PERMISSION OF THE HIGHWAY AUTHORITY HAVING JURISDICTION OVER THE PUBLIC HIGHWAY.
- 2.19 CONTACT DON CHIARUCI, THE TRAFFIC FIELD ENGINEER AT (847)-741-9857 TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 2.20 THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847)-205-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

**3. EARTH WORK**

WORK UNDER THIS SECTION SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

- 3.1 CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA IS INCIDENTAL TREE REMOVAL AS DESIGNATED BY AND APPROVED BY THE ENGINEER SHALL BE KEPT TO A MINIMUM. THE ENGINEER WILL NOT PERMIT THE ON SITE BURIAL OF TREES, BRUSH, MISC. CONCRETE AND ETC.
- 3.2 PRIOR TO ONSET OF MASS GRADING OPERATIONS THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SPECIFICATIONS. THE INITIAL IMPLEMENTATION OF A SOIL EROSION CONTROL PROCEDURES AND THE PLACEMENT OF FILTER FENCING (SILT FENCING), ETC., TO PROTECT ADJACENT PROPERTIES, SHALL OCCUR BEFORE MASS GRADING BEGINS, IN ACCORDANCE WITH THE SOIL EROSION CONTROL CONSTRUCTION SCHEDULE.
- 3.3 ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, THE REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER. HE OR HIS REPRESENTATIVE WILL CLOSELY SUPERVISE AND INSPECT THE GRADING OPERATIONS, PARTICULARLY DURING REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS.
- 3.4 THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORMWATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.
- 3.5 THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADES. A MINIMUM OF FOUR INCHES (4") INCHES OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.
- 3.6 THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"); IF COMPACTION EQUIPMENT DEMONSTRATED THE ABILITY TO COMPACT GREATER THICKNESSES, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.
- 3.7 EMBANKMENT MATERIAL WITHIN ROADWAY, PARKING LANES AND OTHER STRUCTURAL LAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATIONS D-1557 (MODIFIED PROCTOR METHOD), OR TO OTHER SUCH DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMENT MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOIL ENGINEER.
- 3.8 EMBANKMENT MATERIAL (RANDOM FILL) WITHIN NON-STRUCTURAL FILL AREAS SHALL BE COMPACTED TO MINIMUM OF NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD).

**3. EARTH WORK**

- 3.9 THE SURFACE VEGETATION, TOPSOIL AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE CLAY FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THEN AN INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RECOMPACTED TO THE REQUIRED SOIL SPECIFICATIONS. (SEE SECTION 212.03 OF THE I.D.O.T. SPECIFICATIONS).
- 3.10 ALL PAVEMENT SUBGRADE SHALL HAVE A MINIMUM IIR-3 AS DETERMINED BY THE SOILS ENGINEER WITH RESULTS SUBMITTED TO THE ENGINEER. IF AREAS OF PAVEMENT SUBGRADE ARE ENCOUNTERED WHICH DO NOT PROVIDE A MINIMUM IIR-3, SUBGRADE REPLACEMENT OR PAVEMENT DESIGN REVISIONS SHALL BE PROVIDED WHICH ARE ADEQUATE TO OBTAIN EQUIVALENT PAVEMENT STRENGTH, AS DETERMINED BY THE ENGINEER AND SOILS ENGINEER.
- 3.11 PRIOR TO UTILITY CONSTRUCTION PROPOSED PAVEMENT AREAS, SIDEWALKS AND YARD/OPEN SPACE AREAS SHALL BE ROUGH EXCAVATED OR FILLED TO PLUS OR MINUS ONE FOOT (1') OF DESIGN SUBGRADE ELEVATION BY THE CONTRACTOR.
- 3.12 THE STREET SUBGRADE SHALL BE SHAPED AND COMPACTED AS SPECIFIED IN SECTION 301 OF THE I.D.O.T. SPECIFICATIONS. JUST PRIOR TO THE CONSTRUCTION OF THE BASE COURSE, THE SUBGRADE SHALL BE PROOF-ROLLED AND WITNESSED BY THE ENGINEER. IF IN THE OPINION OF THE ENGINEER ANY SUBGRADE AREAS ARE FOUND TO BE UNSTABLE, THEN SAID AREAS SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE GRANULAR MATERIAL. IF PRECIPITATION OCCURS AFTER THE SUBGRADE PROOF-ROLLING AND BEFORE THE CONSTRUCTION OF THE BASE COURSE, THEN SAID SUBGRADE PROOF-ROLLING SHALL BE REPEATED TO VERIFY THAT THE SUBGRADE IS STABLE. IF AREAS OF THE SUBGRADE ARE FOUND TO BE UNSTABLE FOLLOWING REPLACEMENT WITH ACCEPTABLE GRANULAR MATERIALS THE SOILS ENGINEER AND THE ENGINEER SHALL DETERMINE THE CORRECTIVE ACTION.
- 3.13 GEOTEXTILE PAVING FABRIC REQUIRED ON ALL STREET SUBGRADE APPLICATIONS AND SHALL CONSIST OF A NONWOVEN GEOTEXTILE FABRIC, 12 OZ/SY MINIMUM.
- 3.14 THE SUBGRADE SHALL MEET MINIMUM STANDARD OF NINETY-FIVE PERCENT (95%) OF THE STANDARD PROCTOR TEST AND SHALL BE TESTED AT 200 FOOT INTERVALS, MINIMUM.

- 3.15 AGGREGATE BASE COURSE: AFTER APPROVAL BY THE ENGINEER, THE AGGREGATE BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 351 OF THE I.D.O.T. STANDARD SPECIFICATIONS FOR TYPE A OR TYPE B CONSTRUCTION. THE MATERIAL SHALL BE CRUSHED LIMESTONE CONFORMING TO CA-6 GRADATION. THE MINIMUM COMPACTED THICKNESS SHALL BE AS SHOWN ON THE TYPICAL CROSS-SECTION DETAIL. THE AGGREGATE BASE SHALL BE PROOF-ROLLED ONE DAY PRIOR TO PLANNED APPLICATION OF THE PRIME COAT AND BINDER COURSE. IF, IN THE OPINION OF THE ENGINEER THE AGGREGATE BASE IS UNSTABLE, IT SHALL BE REMOVED AND REPLACED WITH NEW SUBBASE AND AGGREGATE BASE MATERIAL AND COMPACTED TO NOT LESS THAN NINETY-FIVE PERCENT (95%) OF THE STANDARD LABORATORY DENSITY.
- 3.16 AFTER COMPLETION OF ALL UTILITIES IN THE RIGHT OF WAY THE PARKWAYS SHALL BE TOPSOILED AND SEEDED.

**4. STORM SEWER CONSTRUCTION**

- 4.1 STORM SEWER SHALL TYPICALLY BE REINFORCED CONCRETE SEWER PIPE, CLASS III OR IV AS NOTED, CONFORMING TO ASTM C-76 SPECIFICATIONS WITH MASTIC SEALED JOINTS. WHERE HORIZONTAL SEPARATION FROM WATER MAIN CONTROLS, PVC STORM SEWER OF WATER MAIN QUALITY SHALL BE USED, WITH JOINTS CONFORMING TO ASTM D-2855. NO ALTERNATE PIPE MATERIAL, SUCH AS PVC OR ADS PLASTIC, ETC., SHALL BE CONSIDERED ACCEPTABLE FOR THE MAIN STORM SEWER LINES WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
- 4.2 FRAMES, LIDS AND GRATES DESIGNATED ON THE PLANS FOR STORM SEWER INLETS, MANHOLES AND JUNCTION BOXES SHALL CONFORM TO THE FOLLOWING OR AN APPROVED EQUAL:
 

CURB INLET	E.J. 7220 TYPE 1 CURB BACK, TYPE M1 GRATE
MANHOLE	E.J. 1020 TYPE M1 OR TYPE A GRATE
YARD INLET	E.J. 6527
JUNCTION BOX	E.J. 1020 TYPE M1 OR TYPE A GRATE

THE WORDS "CITY OF BATAVIA", "STORM" SHALL BE CAST INTO THE LID.
- 4.3 MANHOLES TYPE "C" MANHOLES DESIGNATED ON THE PLANS AS TYPE "C" ARE SHALLOW DEPTH MANHOLES WITH A REINFORCED CONCRETE FLAT SLAB TOP. THE DEPTH OF THE FLAT SLAB TOP TO BE 6 INCHES.
- 4.5 POURED INVERTS: ALL INLETS, CATCH BASINS, STORM MANHOLES AND OTHER DRAINAGE STRUCTURES SHALL BE PROVIDED WITH PRECAST CONCRETE INVERTS OR SHALL HAVE POURED IN PLACE CONCRETE INVERTS CONFORMING TO THE SHAPE OF THE PIPE OR AS OTHERWISE SHOWN ON THE PLANS. POURED IN PLACE CONCRETE SHALL BE CLASS "SI" SHAPED AND TROWELED FOR A SMOOTH FINISH.

**5. SANITARY SEWER CONSTRUCTION**

- 5.1 SEWER PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS EXCEPT AS APPROVED BY THE ENGINEER:
  1. BETWEEN DEPTHS OF SIX FEET (6') AND FOURTEEN FEET (14'), PVC PIPE ASTM D-3034 SDR 26 SHALL BE REQUIRED. (ORD. 1977-32, 6-2-1997)
  2. FOR DEPTHS SHALLOWER THAN SIX FEET (6') OR DEEPER THAN FOURTEEN FEET (14') DUCTILE IRON PIPE, ASTM C151, CLASS 52 WITH PUSH ON JOINTS OR RESTRAINED JOINTS WHERE APPLICABLE. PIPE SHALL BE AS MANUFACTURED BY GRIFFIN PIPE CO., HZSEWER SAFE DUCTILE IRON OR APPROVED EQUAL. ALL DUCTILE IRON SHALL INCLUDE POLY-WRAP. ALL PIPE INSTALLED AT DEPTHS GREATER THAN FOURTEEN FEET (14') SHALL BE EVALUATED FOR THICKNESS BY CONSIDERING THE TRENCH LOAD AND INTERNAL PRESSURE SEPARATELY IN ACCORDANCE WITH ANSI/AWWA C150/A21.5. PRESSURE RATED PIPE, ASTM D-2241, SDR 21 MAY BE SUBSTITUTED FOR BURY DEPTHS FROM FOURTEEN FEET (14'), TO TWENTY FEET (20'). PRESSURE RATED PIPE, ASTM D-2241, (OR) 18, AWWA C-900, MAY BE REQUIRED OR SUBSTITUTED AT DEPTHS GREATER THAN TWENTY FEET (20'). ANY USE OF PLASTIC PIPE AT THESE DEPTHS SHALL BE WITH THE PERMISSION OF (OR REQUIRED BY) THE ENGINEER. (ORD. 85-21,9-3-1985)
  3. FOR PIPE TWENTY FOUR INCHES (24") AND LARGER, PIPE SHALL BE AS MANUFACTURED BY GRIFFIN PIPE CO., HZSEWER SAFE DUCTILE OR APPROVED EQUAL. ALL DUCTILE IRON SHALL INCLUDE POLY-WRAP. ALL PIPE GREATER THAN TWENTY FOUR INCHES (24") DIA. OR INSTALLED AT DEPTHS GREATER THAN FOURTEEN FEET (14') SHALL BE EVALUATED FOR THICKNESS BY CONSIDERING THE TRENCH LOAD AND INTERNAL PRESSURE SEPARATELY IN ACCORDANCE WITH ANSI/AWWA C150/A21.5. PRESSURE RATED PIPE ASTM D- 2241 OR AWWA C900, MAYBE REQUIRED (OR SUBSTITUTED) ON LARGE DIA. PIPE BY THE ENGINEER.
  - 5.2 MANHOLE FRAMES AND LIDS: THE FRAMES AND LIDS SHALL BE OF THE NON-ROCKING AND SELF-SEALING TYPE WITH RUBBER WATERTIGHT GASKET AND SHALL CONFORM TO EAST JORDAN NO 1020 OR AN APPROVED EQUAL. THE LIDS TO BE SOLID WITH CONCEALED PICK HOLE AND WITH THE WORDS "CITY OF BATAVIA" AND "SANITARY SEWER" IN THE CAST IN LID. "INFA-SHIELD", "CANUSA" OR APPROVED EQUAL, CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWER MANHOLES.
  - 5.3 SEWER PIPE BEDDING AND COVER: ALL SANITARY SEWER PIPE INCLUDING SERVICE LINES SHALL BE BEDDED AND CRADLED TO THE CENTERLINE OF THE PIPE IN SAND OR FINE GRAVEL. FROM THE CENTERLINE OF THE PIPE TO 12 INCHES OVER THE TOP OF THE PIPE, GRANULAR TRENCH BACKFILL MATERIAL SHALL BE HAND PLACED AND COMPACTED, ALL TO THE DETAILS SHOWN ON THE PLANS, PVC PIPE SHALL BE BEDDED AND CRADLED IN ACCORDANCE WITH ASTM D-2321 (CLASS 1) SPECIFICATIONS. ALL TRENCHES WITHIN STREETS AND FOR SANITARY SEWERS CONSTRUCTED UNDER PROPOSED PAVED AREAS SHALL BE BACKFILLED WITH CA-7 CRUSHED STONE. FLOWABLE FILL IN ACCORDANCE WITH I.D.O.T. SPECIAL PROVISION FOR CONTROLLED LOW-STRENGTH MATERIALS (CLSM) MAY BE REQUIRED UNDER CERTAIN CIRCUMSTANCES AS DIRECTED BY THE DEPT. OF PUBLIC WORKS OR THE ENGINEER. CA-6 CRUSHED STONE TRENCH BACKFILL (95%) COMPACTION @ ONE FOOT INTERVALS ACCORDING TO CITY POLICY; OR OTHER SUITABLE TRENCH BACKFILL MAY BE SUBSTITUTED FOR CA-7 UNDER THE FOLLOWING CONDITIONS: 1) APPROVED BY STREET DEPARTMENT SUPERINTENDENT AND ENGINEER, 2) ON-SITE INSPECTION OF TRENCH BACKFILL DURING CONSTRUCTION.
  - 5.4 SANITARY SEWER SERVICES: SANITARY SEWER STUBS INSTALLED FOR HOUSE SERVICE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS OR THE STANDARD SPECIFICATIONS. SEWER STUBS SHALL BE EXTENDED TO THE R.O.W. THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD, AND THE CONSTRUCTED LOCATION ACCURATELY RECORDED AND THE END MARKED WITH A 2"x4" POST PAINTED GREEN. SERVICE LINES SHALL HAVE A MINIMUM SLOPE OF 2.0%.
  - 5.5 LEAKAGE TESTING: ALL SANITARY SEWERS SHALL BE TESTED FOR WATERTIGHTNESS BY THE AIR TESTING METHOD SPECIFIED IN THE STANDARD SPECIFICATIONS.
  - 5.6 DEFLECTION TESTING: ALL SANITARY SEWER MAIN CONSTRUCTED OF PVC PIPE SHALL BE TESTED FOR DEFLECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

- 5.7 VACUUM TESTING: VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING. ALL LIFT HOLES SHOULD BE PLUGGED WITH AN APPROVED NON-SHRINK GROUT, OR RUBBER PLUG. NO GROUT WILL BE PLACED IN THE HORIZONTAL JOINTS BEFORE TESTING. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO COMPLETELY SPACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND THE TIME MEASURED FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY. THE VACUUM SHALL NOT DROP BELOW NINE (9) INCHES OF MERCURY FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE MANHOLE:
 

FORTY-EIGHT (48) INCHES DIAMETER	SIXTY (60) SECONDS
SEVENTY-TWO (72) INCHES DIAMETER	NINETY (90) SECONDS

THE VACUUM TESTER SHALL BE MANUFACTURED BY P.A. GLAZIER, INC., WORCESTER, MA. 01613, PHONE (800) 822-6468, OR OTHER TESTING EQUIPMENT MEETING THE SAME STANDARDS, IF APPROVED BY THE CITY DEPARTMENT OF PUBLIC WORKS ALL TESTING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF P.A. GLAZIER, INC. IF TESTING FAILS THE CONTRACTOR SHALL SEAL ALL LEAKS WITH MATERIAL AND METHODS RECOMMENDED BY P.A. GLAZIER, INC. AND RE-TESTED UNTIL ACCEPTABLE. IT IS RECOMMENDED THAT THIS TESTING BE DONE BEFORE BACKFILLING SO THAT ANY LEAKS CAN BE FOUND AND FIXED EXTERNALLY. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL BE IN PLACE WHEN TESTING.

- 5.8 MANHOLES: ALL SANITARY SEWER MANHOLES SHALL BE OF PRECAST CONCRETE CONSTRUCTION AND SHALL HAVE RUBBER GASKETED COUPLINGS FOR ALL INLET AND OUTLET PIPES. INVERTS SHALL BE PRECAST CONCRETE CONFORMING TO THE SIZE AND SHAPE OF TAKING CARE TO COMPLETELY SPACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND THE TIME MEASURED FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY. THE VACUUM SHALL NOT DROP BELOW NINE (9) INCHES OF MERCURY FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE MANHOLE:
 

FORTY-EIGHT (48) INCHES DIAMETER	SIXTY (60) SECONDS
SEVENTY-TWO (72) INCHES DIAMETER	NINETY (90) SECONDS
- 5.9 A NON-SHEAR "MISSION" BRAND COUPLING SHALL BE USED WHEN JOINING PIPES MADE OF DISSIMILAR MATERIAL WHERE NO "HUB" END EXISTS. PVC TRANSITION FITTINGS SHALL BE USED WHEN JOINING PVC PIPES OF DISSIMILAR MATERIAL SPECIFICATIONS SUCH AS WITH STORM SEWER OR WATER MAIN.

**6. SIDEWALK AND CURB CONSTRUCTION**

- 6.1 COMBINATION CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE I.D.O.T. STANDARD SPECIFICATIONS. THE CONCRETE CURB AND GUTTER SHALL BE TYPE BG.12 UNLESS DETAILED OTHERWISE IN THE CONSTRUCTION PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. THE CONCRETE SHALL BE CLASS "SI". IT SHALL HAVE AN AIR CONTENT OF NOT LESS THAN 5% NOR MORE THAN 7% OF THE VOLUME OF THE CONCRETE. IT SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT 14 DAYS. TEST CYLINDERS SHALL BE TAKEN AND THE CERTIFIED COMPRESSION TEST RESULTS SUBMITTED TO THE ENGINEER.
- 6.2 REINFORCING BARS SHALL BE RUN CONTINUOUSLY THROUGH ITS LENGTH, EXCEPT AT EXPANSION JOINTS. AT EACH EXPANSION JOINT PROVIDE TWO 18" LONG NO. 6 SMOOTH BARS WITH EXPANSION CAPS AND 3/4" PREMOLDED, NON-EXTRUDING JOINT FILLER. EXPANSION JOINTS ARE TO BE PROVIDED AT ALL RADIUS POINTS, 5' TO 10' EITHER SIDE OF STRUCTURES AND 100' INTERVALS.
- 6.3 CONTRACTION JOINTS SHALL BE SAWED AT A MAXIMUM OF TEN FEET (10') SPACING. THE CONTRACTION JOINTS SHALL BE CUT IN THE UPPER 1/3 OF CURBS AND GUTTERS WITHIN 24 HOURS OF PLACEMENT.
- 6.4 ALL CURB AND GUTTER SHALL BE BROOM FINISHED. FINISHED SURFACES OF ALL NEWLY CONSTRUCTED CURB AND GUTTER SHALL BE COATED WITH ANTI-SPALL AND CURING COMPOUND APPROVED BY THE ENGINEER.
- 6.5 CURING AND PROTECTION OF ALL EXPOSED CONCRETE SURFACES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. NO HONEYCOMBING OF THE CURB AND GUTTER WILL BE ACCEPTED.
- 6.6 BACKFILLING OF CURBS SHALL BE COMPLETED PRIOR TO PLACEMENT OF ROADWAY BASE-COURSE.
- 6.7 SIDEWALKS SHALL BE FIVE INCHES (5") THICK EXCEPT THRU DRIVEWAYS, HANDICAP RAMPS AND WHERE THE SIDEWALKS IS ADJACENT TO CURB THE THICKNESS IS TO BE SIX INCHES (6"). THE WIDTH OF THE SIDEWALK SHALL BE A MINIMUM OF FIVE FEET (5'). ALL SIDEWALK CONCRETE SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT 14 DAYS. CONTRACTION JOINTS SHALL BE SET AT 5 FOOT CENTERS WITH 3/4" PREMOLDED FIBER EXPANSION JOINTS AT 50 FEET CENTERS, AND WHERE SIDEWALK MEETS THE CURB, A BUILDING, OR ANOTHER SIDEWALK OR AT THE END OF EACH POUR, ALL SIDEWALKS SHALL BE BROOM FINISHED, IF A MANHOLE FRAME FALLS WITHIN THE LIMITS OF A SIDEWALK, A BOX-OUT SECTION SIDEWALK SHALL BE PLACED AROUND FRAME WITH A 1/2" EXPANSION JOINT.
- 6.8 HANDICAP SIDEWALK RAMPS SHALL BE INSTALLED AT ALL SIDEWALK/STREET INTERSECTIONS AS SHOWN ON DETAIL.
- 6.9 SIDEWALK SHALL NOT BE PLACED UNTIL BUILDING CONSTRUCTION HAS BEEN COMPLETED TO THE POINT THAT CONSTRUCTION TRAFFIC NEED NO LONGER CROSS THE SIDEWALK AREA, OR AS OTHERWISE DIRECTED BY THE ENGINEER.

**LIST OF STATE STANDARDS**

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSE
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALK
424021-01	DEPRESSED CORNER FOR SIDEWALKS
424028-01	ENTRANCE / ALLEY PEDESTRIAN CROSSING
442201-03	CLASS C & D PATCHES
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604036-02	GRATE, TYPE B
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701001-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701002-05	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701002-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701001-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701001-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION





CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% LOCAL LANDSCAPING URBAN	100% STATE SAFETY URBAN	100% LOCAL LOCAL URBAN
20100110	TREE REMOVAL (8 TO 15 UNITS DIAMETER)	UNIT	170	170		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	20	20		
20101100	TREE TRUNK PROTECTION	EACH	14	14		
20101200	TREE ROOT PRUNING	EACH	10	10		
20200200	ROCK EXCAVATION	CU YD	97		7	50
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	30	30		
20600150	TRENCH BACKFILL	CU YD	7		7	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	90	90		
21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	200	200		
* 25200110	SODDING, SALT TOLERANT	SQ YD	1050	1050		
* 25200200	SUPPLEMENTAL WATERING	UNIT	60	60		
28000510	INLET FILTERS	EACH	30	30		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	30	30		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	625	625		
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	90	90		
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	750	750		
36300100	PORTLAND CEMENT CONCRETE BASE COURSE 6"	SQ YD	90	90		
36300200	PORTLAND CEMENT CONCRETE BASE COURSE 7"	SQ YD	600	600		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50	50		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	620	190		430
40600300	AGGREGATE (PRIME COAT)	TON	14	4		10
40600837	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N70	TON	240	50		190
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX 1D" N70	TON	540	160		380
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	290	290		
42400800	DETECTABLE WARNINGS	SQ FT	900	328	132	40
44000100	PAVEMENT REMOVAL	SQ YD	490	490		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL 2"	SQ YD	6875	3075		3800
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	165	167	58	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1585	741	325	519
44000800	SIDEWALK REMOVAL	SQ FT	16525	6408	7553	2564
44201882	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	1200	700	300	200
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	5		5	
55000340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	172	172		
55100600	STORM SEWER REMOVAL 12"	FOOT	137	92		45
* 56100600	WATER MAIN 8"	FOOT	145			145
* 56100700	WATER MAIN 8"	FOOT	1345			1345
* 56100900	WATER MAIN 12"	FOOT	160			160
* 56104900	WATER VALVES 6"	EACH	14			14
* 56105000	WATER VALVES 8"	EACH	10			10
* 56105200	WATER VALVES 12"	EACH	2			2
* 56300100	ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS	FOOT	100			100
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	3			3
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	7			7
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	4	4		
60216300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2		
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1		
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	6	6		
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	19			19
60255500	MANHOLES TO BE ADJUSTED	EACH	20	5	2	13
60260100	INLETS TO BE ADJUSTED	EACH	15	3	2	10
60268800	VALVE BOXES TO BE ADJUSTED	EACH	6	6		
60500040	REMOVING MANHOLES	EACH	7			7
60500060	REMOVING INLETS	EACH	6	6		
60500405	FILLING VALVE VAULTS	EACH	6			6
60600605	CONCRETE CURB, TYPE B	FOOT	100	100		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-8 12	FOOT	2105	1296	290	519
60606900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9 12	FOOT	35		35	
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	229	184		45
67100100	MOBILIZATION	L SUM	1	0.6	0.3	0.1

\* INDICATES SPECIAL PROVISION  
\* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL LANDSCAPING URBAN	100% STATE SAFETY URBAN	100% LOCAL LOCAL URBAN
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.6	0.3	0.1
70102835	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.6	0.3	0.1
70102840	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.6	0.3	0.1
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	500			500
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8000			8000
70400100	TEMPORARY CONCRETE BARRIER	FOOT	150			150
72000100	SIGN PANEL - TYPE 1	SQ FT	59		59	
72000200	SIGN PANEL - TYPE 2	SQ FT	25		25	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	200	200		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2200	2200		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	800	800		
* 79000200	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150		
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	3	2	1	
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	2	1	1	
* 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2		2	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2123	120	2003	
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	478		478	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	258		258	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	930	50	880	
* 81028260	UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIA.	FOOT	255	255		
* 81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	450	450		
* 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	960	960		
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	4970	4970		
* 81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	370	370		
* 81400100	HANDHOLE	EACH	11		11	
* 81400200	HEAVY-DUTY HANDHOLE	EACH	10	2	8	
* 81400300	DOUBLE HANDHOLE	EACH	5		5	
* 81603020	UNIT DUCT, 600V, 3-1C NO. 10, 1/2" DIA. (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	702		702	
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 10	FOOT	5137	5100	37	
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 6	FOOT	20600	20600		
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 4	FOOT	7750	7750		
* 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 2	FOOT	400	400		
* 81702420	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2" NO. 6	FOOT	37		37	
* 82800370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1	1		
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20	20		
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	20	20		
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	15			15
* 85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	7			7
* 85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1			1
* 85400100	TRANSCEIVER - FIBER OPTIC	EACH	2		2	
* 87300025	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2388		2388	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2930		2930	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3790		3790	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2047		2047	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3747		3747	
* 87301355	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5645		5645	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	49		49	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1603		1603	
* 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1	
* 87502600	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32		32	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8		8	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	47		47	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9		9	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	7		7	
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	9		9	
* 88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2	
* 88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	7		7	

**CHRISTOPHER B. BURKE**  
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(847) 823-0500

DESIGNED *CJM*  
DRAWN *MAK*  
CHECKED *LMF*  
DATE

REVISIONS  
REVISION  
REVISION  
REVISION

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 4 OF 88 SHEETS STA. TO STA.

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 4
CONTRACT NO. 63763				
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL LANDSCAPING URBAN	100% STATE SAFETY URBAN	100% LOCAL LOCAL URBAN
A 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	19		19	
X 88500100	INDUCTIVE LOOP DETECTOR	EACH	23		23	
X 88800100	DETECTOR LOOP, TYPE I	FOOT	1438		1438	
X 88700200	LIGHT DETECTOR	EACH	4			4
X 88700300	LIGHT DETECTOR AMPLIFIER	EACH	2			2
X 88900100	PEDESTRIAN PUSH-BUTTON	EACH	16		16	
X 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
X 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	926		926	
X 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2	
X 89502360	REMOVE EXISTING HANDHOLE	EACH	25	10	15	
X 89502352	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2		2	
X 89502395	REMOVE EXISTING CONCRETE FOUNDATION	EACH	17		17	
A 2002624	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 3" CALIPER, BALLED AND BURLAPPED	EACH	7	7		
A 2002684	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
A 2004424	TREE, GINKGO BILOBA (GINKGO), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
A 2004621	TREE, GLEDITSIA TRIACANTHOS VAR. INERMIS IMPERIAL (IMPERIAL THORNLESS HONEYLOCUST), 3" CALIPER, BALLED AND	EACH	4	4		
A 2004724	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 3" CALIPER	EACH	3	3		
A 2006726	TREE, QUERCUS MACROCARPA (BUR OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	6	6		
A 2007253	TREE, ROBINA PSUEDOACACIA 'CHICAGO BLUES' (CHICAGO BLUES BLACK LOCUST), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
A 2009818	TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
B 2006322	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
C 2005865	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 5-GALLON	EACH	21	21		
C 2005865	SHRUB, ROSA RUGOSA 'FLOWER CARPET WHITE' (FLOWER CARPET WHITE ROSE), 5-GALLON	EACH	23	23		
C 2015465	SHRUB, JUNIPERUS VIRGINIANA 'BLUE MOUNTAIN' (BLUE MOUNTAIN JUNIPER), 5-GALLON	EACH	11	11		
K 0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	13.3	13.3		
K 1001988	IRRIGATION SYSTEM SPECIAL	L SUM	1			1
K 1003678	MULCH	CU YD	35	35		
X 0300935	PLANTER	EACH	22			22
X 0322924	RETAINING WALL REMOVAL	SQ FT	160	160		
X 0322760	SANITARY SEWER SERVICE, 6" PVC, COMPLETE	EACH	35			35
X 0323577	SANITARY SEWER TELEVISION INSPECTION, VIDEOTAPING AND RECORDING	FOOT	1200			1200
X 0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	701			701
X 0328498	GFCI 20 AMP DUPLEX RECEPTACLE	EACH	19	19		
X 0326854	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	12	12		
X 0328662	CURED-IN-PLACE PIPE LINER, 24"	FOOT	66			66
X 0327298	REMOVE AND RELOCATE LIGHTING SYSTEM	L SUM	1	1		
X 0327388	SANITARY SEWER, DUCTILE IRON, 12"	FOOT	281			281
X 0487800	SANITARY SEWER REMOVAL 12"	FOOT	281			281
X 0540000	BRICK PAVERS	SQ FT	13152	5020	8132	
X 0602860	TRENCH BACKFILL, SPECIAL	CU YD	1700	400		1300
X 4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	7668	3046	4623	
X 5819850	WATER MAIN TO BE ABANDONED	L SUM	1			1
X 6022052	SANITARY MANHOLES FRAME AND ADJUSTMENT SEALING	EACH	4			4
X 6028055	SANITARY MANHOLE, SPECIAL	EACH	5			5
X 6828622	VALVE VAULTS TO BE REMOVED	EACH	1			1
X 8140105	HANDHOLE (SPECIAL)	EACH	13	13		
X 8140230	HANDHOLE, COMPOSITE CONCRETE (SPECIAL)	EACH	4	4		
X 8260081	COMBINATION LIGHTING CONTROLLER	EACH	2		2	
X 8260210	PHOTOCELL RELAY	EACH	11	11		
X 8260500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	12	12		
X 8360110	LIGHT POLE FOUNDATION, SPECIAL	FOOT	60	60		
X 8360210	LIGHT POLE FOUNDATION, 24" DIAMETER, SPECIAL	FOOT	88	88		
X 8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	29	29		
X 8410118	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	L SUM	1	1		
X 8570228	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2		2	
X 8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2		2	
X 8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62, 5/125, MM12F SM24F	FOOT	2432		2432	
X 8770123	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	2		2	
X 8770127	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1		1	
X 8770125	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1		1	

Δ 0042

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL LANDSCAPING URBAN	100% STATE SAFETY URBAN	100% LOCAL LOCAL URBAN
X 8770138	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	2			
X 8770137	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	1		1	
X 8770151	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT. (SPECIAL)	EACH	1		1	
XX000959	TRASH RECEPTACLES	EACH	6			6
XX001184	LUMINAIRE, HIGH PRESSURE SODIUM, SPECIAL	EACH	12		12	
XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	937		937	
XX004951	CAST IN PLACE CONCRETE STAIR	L SUM	1	1		
XX005211	TOPSOIL, FURNISH AND PLACE (PULVERIZED), VARIABLE	SQ YD	175	175		
XX005213	BRICK PAVEMENT CROSSWALK	SQ FT	4700	4700		
XX005735	PLANTER CURB	FOOT	960	960		
XX005867	TOPSOIL PLANT MIXTURE	CU YD	246	246		
XX006392	CLASS D PATCHES, 6" (SPECIAL)	SQ YD	900	600	300	100
XX006465	SERVICE LATERAL, SPECIAL	EACH	10			10
XX007324	RECYCLING RECEPTACLE	EACH	6			6
XX007852	PEDESTRIAN BENCH, FURNISH AND PLACE	EACH	1			1
Z0003850	BENCHES	EACH	5			5
Z0003855	BICYCLE RACKS	EACH	9	9		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.6	0.3	0.1
Z0023202	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	18	18		
Z0023700	FILLING EXISTING HANDHOLES	EACH	7	7		
Z0033026	MAINTENANCE OF EXISTING LIGHTING SYSTEM COMPLETE	L SUM	1	1		
Z0033856	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1		1	
Z0044298	PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	2			2
Z0047508	PUMPING	CAL DA	5			5
Z0067800	STEEL CASINGS 18"	FOOT	60			60
Z0073610	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		2	
Z0078600	TRAINEES	HOUR	1000	667	333	
Z0078604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	667	333	
X 8780107	CONCRETE FOUNDATION, (SPECIAL)	FOOT	44		44	
X 8780055	PEDESTRIAN PUSHBUTTON POST, TYPE A	EACH	6		6	
XX008751	PORTLAND CEMENT CONCRETE BASE COURSE 5"	SQ YD	1405	1405		
XX008752	CURED-IN-PLACE PIPE LINER, SANITARY, 12"	FOOT	475			475
XX008753	CURED-IN-PLACE PIPE LINER, SANITARY, 24"	FOOT	53			53
X 008754	TREE, MALUS X ZUMI 'CALOCARPA' (ZUMI CALOCARPA CRABAPPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	6	6		
X 008754	TREE, PLANTANUS X ACERIFOLIA 'BLOODGOOD' (BLOODGOOD LONDON PLANETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
XX008754	PRECAST PLANTERS (30" HEIGHT)	EACH	9			9
XX008755	STONEWORK LIMESTONE PILLAR A	EACH	2	2		
XX008756	STONEWORK LIMESTONE PILLAR B	EACH	1	1		
XX008757	STONEWORK LIMESTONE PILLAR C	EACH	1	1		
XX008758	STONEWORK LIMESTONE PILLAR D	EACH	1	1		
XX008759	STONEWORK LIMESTONE PILLAR E	EACH	1	1		
XX008760	STONEWORK LIMESTONE CAP	FOOT	154	154		
XX008761	STONEWORK LIMESTONE VENEER SEAT WALL	SQ FT	400	400		
XX008762	STONEWORK CONCRETE FOUNDATION AND CONCRETE CORE	FOOT	154	154		
XX008763	CAST IN PLACE CONCRETE SEATWALL	FOOT	40	40		
XX008764	CAST IN PLACE CONCRETE RETAINING WALL 8"	FOOT	120	120		
XX008765	SANITARY SEWER CLEAN OUT	EACH	35			35

**CHRISTOPHER B. BURKE**  
ENGINEERING, LTD.  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME: mka0000  
PLOT SCALE: 1"  
PLOT DATE: 11/26/2013

DESIGNED: CJM  
DRAWN: MAK  
CHECKED: LMF  
DATE: -

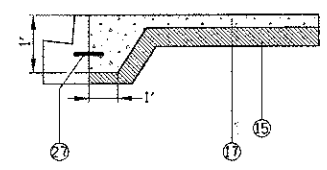
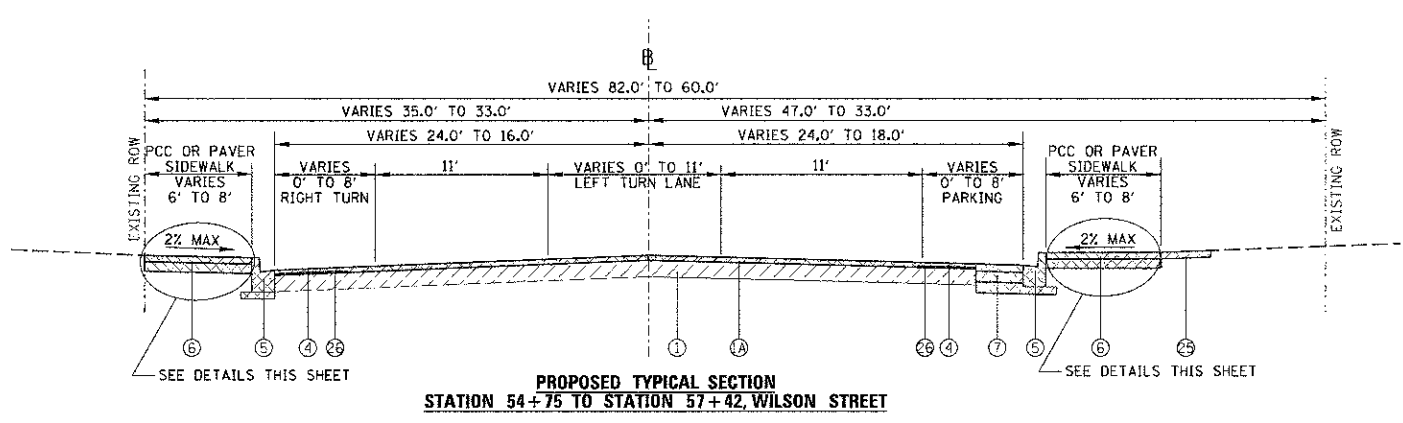
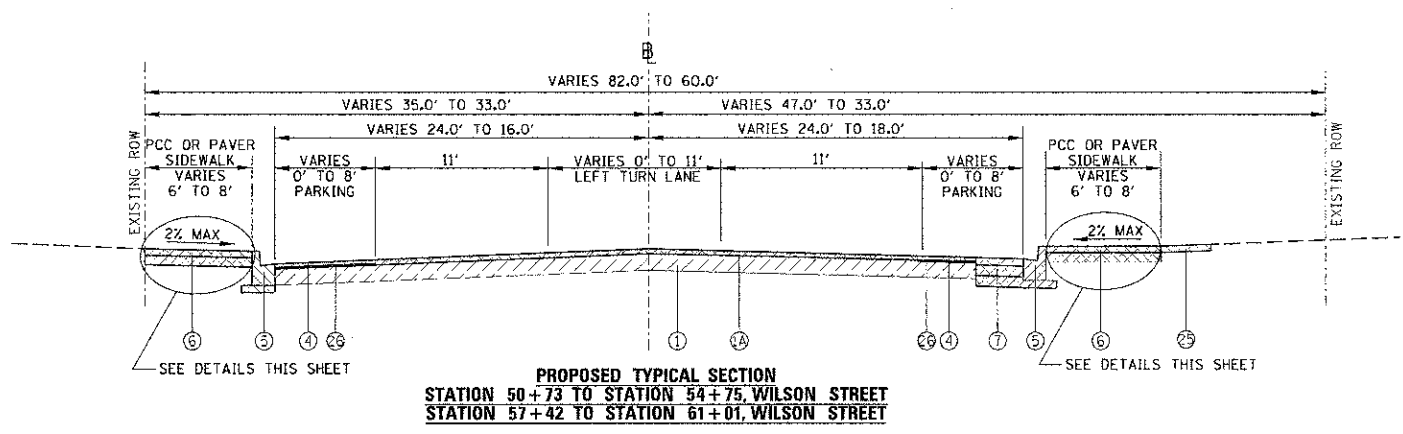
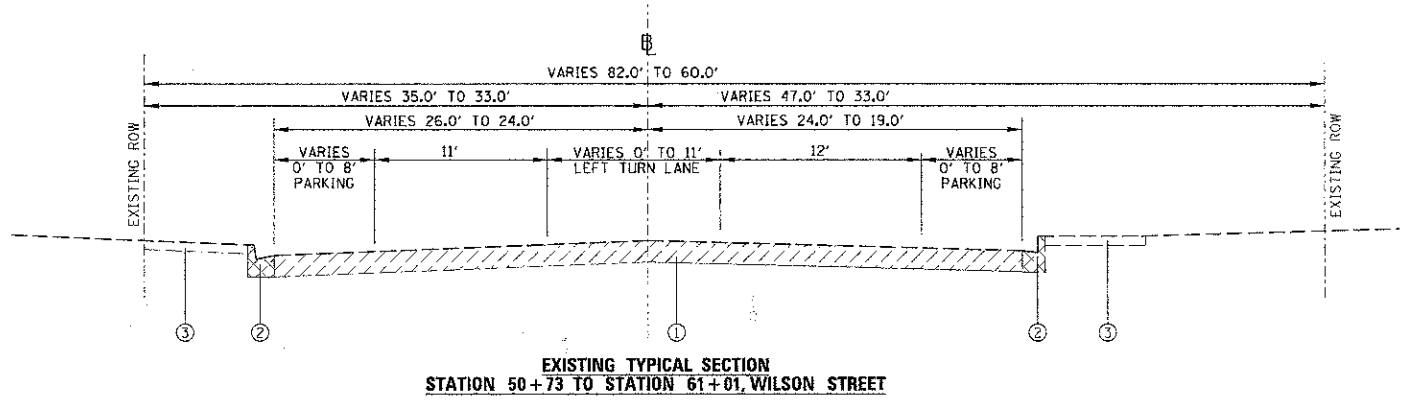
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

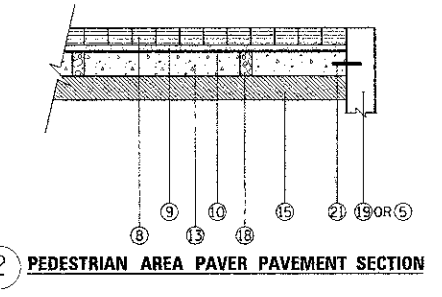
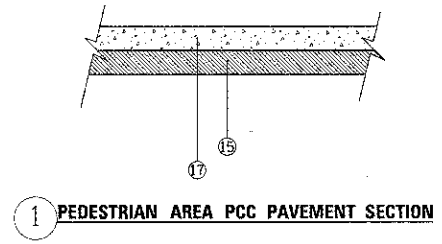
**SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 5 OF 88 SHEETS STA. TO STA.

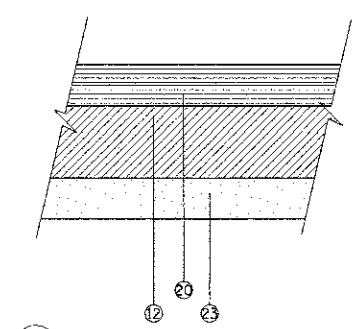
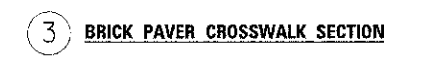
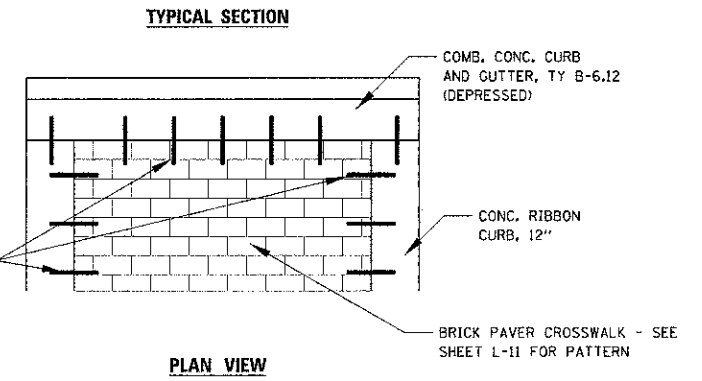
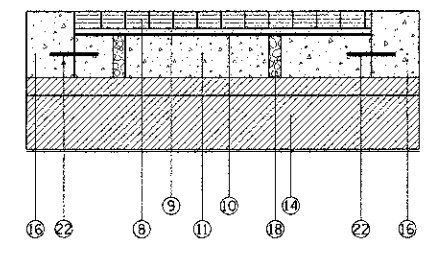
F.A.U. RTE. 1441 SECTION 12-00073-01-TL COUNTY KANE TOTAL SHEETS 88 SHEET NO. 5 CONTRACT NO. 63763 ILLINOIS FED. AID PROJECT



NOTES:  
1. THICKENED EDGE SHALL BE INCLUDED IN THE COST OF THE PCC SIDEWALK  
2. 3/4" PREFORMED EXPANSION JOINT SHALL BE INSTALLED BETWEEN CURB AND PCC SIDEWALK WHEN SIDEWALK IS ADJACENT TO BOTH CURB AND BUILDING.

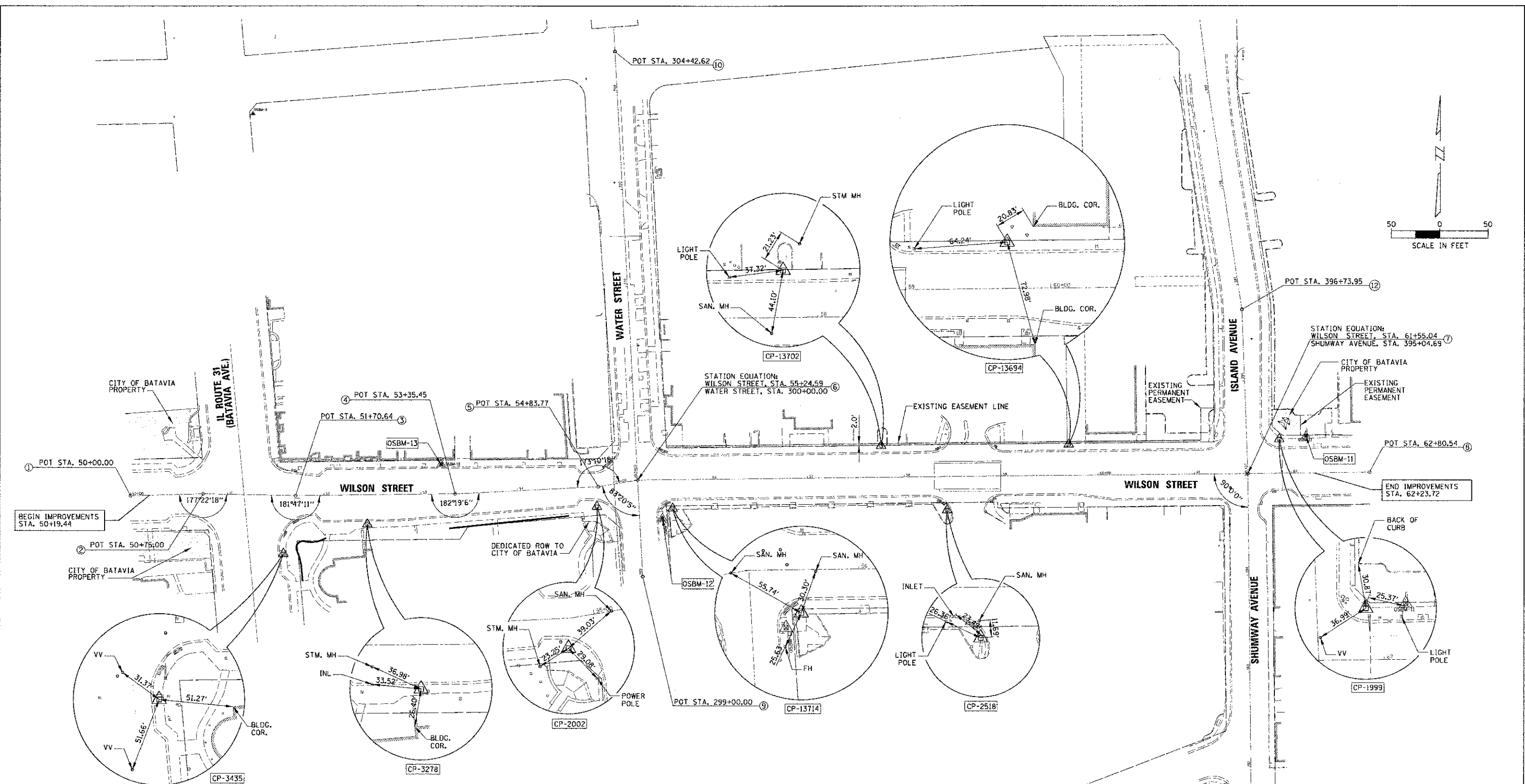


- LEGEND**
- 1 EXISTING PAVEMENT
  - 2 HOT-MIX SURFACE REMOVAL, 2"
  - 3 EXISTING CURB AND GUTTER
  - 4 EXISTING SIDEWALK
  - 5 HOT-MIX ASPHALT SURFACE COURSE MIX D, N70- 1 1/2"
  - 6 COMBINATION CONCRETE CURB AND GUTTER, TY B-6.12
  - 7 PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL OR BRICK PAVER (SEE PLANS FOR LOCATION)
  - 8 PAVEMENT WIDENING (SEE DETAIL THIS SHEET)
  - 9 BRICK PAVER, (ASTM C-1272 - FOR HEAVY VEHICULAR TRAFFIC, 2-3/4")
  - 10 SAND CUSHION, 1", INCLUDED IN THE COST OF BRICK PAVER
  - 11 GEOTECHNICAL FABRIC (FOLD UP AT EDGES- PLACED AT JOINT AND OVER DRAIN HOLES) - TYPE AND THICKNESS PER MANUFACTURES RECOMMENDATIONS
  - 12 PORTLAND CEMENT CONCRETE BASE COURSE, 7"
  - 13 PORTLAND CEMENT CONCRETE BASE COURSE, 6"
  - 14 AGGREGATE BASE COURSE, TYPE B, 12"
  - 15 AGGREGATE BASE COURSE, TYPE B, 4" (CA-6)
  - 16 CONCRETE RIBBON CURB, 12", INCLUDED IN THE COST OF BRICK CROSSWALK
  - 17 PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL 2" DRAIN HOLES, 2' O/C, AT LOW POINTS, AND BACK OF CURB, (FILL WITH PEA GRAVEL), INCLUDED IN THE COST OF BRICK PAVERS OR BRICK CROSSWALK
  - 18 CONCRETE CURB, TY B
  - 19 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 3"
  - 20 6" EPOXY COATED TIE BAR, NO. 4 (12" O/C), INCLUDED IN THE COST OF CONCRETE BASE COURSE.
  - 21 12" EPOXY COATED TIE BAR, NO. 4 (12" O/C), INCLUDED IN THE COST OF CONCRETE BASE COURSE.
  - 22 AGGREGATE BASE COURSE, TYPE B, 6"
  - 23 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (12 oz./sq yd)
  - 24 TOPSOIL AND SODDING
  - 25 POLYMERIZED LEVELING BINDER (MACHINE METHOD), N70 (3/4")
  - 26 12" EPOXY COATED TIE BAR, NO. 4 (48" O/C), INCLUDED IN THE COST OF PCC SIDEWALK
  - 27



- NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/ SQ. YD. IN.
  2. AGGREGATE SUBGRADE IMPROVEMENT HAVE BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES 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 COME UP AT A 1:1 SLOPE TO THE EXISTING GROUND SURFACE. THESE LIMITS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL".
  3. ALL CURB AND GUTTER JOINTS SHALL MATCH THE EXISTING PCC BASE COURSE JOINTS.
  4. ALL CURB AND GUTTER AND PAVEMENT WIDENING SHALL BE PINNED TO EXISTING CONCRETE BASE WHEN PRESENT.
  5. CLASS D PATCH SHALL MATCH THE GRADE OF THE MILLED SURFACE. IF THE SURFACE IN NOT MILLED AT THE TIME OF PATCHING, THE CONTRACTOR SHALL PROVIDE 2" OF HOT-MIX ASPHALT TEMPORARY SURFACE COURSE. THE COST OF THIS TEMPORARY SURFACE COURSE SHALL BE INCLUDED IN THE COST OF THE CLASS D PATCH.

HOT-MIX ASPHALT REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ NDES
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70	4% @ 70 Gyr.
CLASS D PATCHES, TYPE D, 6"	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N70 (3/4" MIN.)	4% @ 50 Gyr.



ALIGNMENT COORDINATES

POINT NO.	STA.	NORTHING	EASTING
1	50+00.00	1,887,902.82	989,951.67
2	50+75.00	1,887,904.73	990,026.64
3	51+70.64	1,887,902.78	990,122.26
4	53+35.45	1,887,904.54	990,287.06
5	54+83.77	1,887,912.14	990,435.19
6	55+24.59	1,887,919.06	990,475.42
7	61+55.04	1,887,926.26	991,105.83
8	62+80.54	1,887,927.70	991,231.32
9	299+00.00	1,887,819.20	990,490.82
10	304+42.62	1,888,361.03	990,451.51
11	390+86.47	1,887,508.07	991,110.61
12	396+73.95	1,888,095.40	991,099.40

HORIZONTAL CONTROL POINTS

CONTROL POINT	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET	ELEVATION
CP-3435	1887942.5003	990109.7067	X-CUT	51+59.32	60.52 RT	709.98
CP-3278	1887873.0200	990196.4375	X-CUT	52+44.49	30.55 RT	701.58
CP-2002	1887891.4939	990433.5780	X-CUT	54+81.11	20.53 RT	687.53
CP-13714	1887889.6631	990511.6229	X-CUT	55+60.46	29.81 RT	683.68
CP-13702	1887954.3637	990726.7984	X-CUT	57+76.36	32.43 LT	677.68
CP-2518	1887888.0421	990795.1545	REBAR	58+43.95	34.67 RT	676.77
CP-13694	1887955.9537	990920.7160	X-CUT	59+70.28	31.80 LT	674.32
CP-1999	1887961.7998	991138.1622	X-CUT	61+87.78	95.16 LT	672.98

ELEVATION BENCHMARKS  
DATUM: NAVD '88

NO.	DESCRIPTION	ELEV.
OSBM-1	AZIMUTH DISK IN CONCRETE WALK AT NORTHWEST CORNER OF ISLAND AND HOUSTON.	670.65
OSBM-11	SOUTHWEST CORNER OF SIGN FOR MALL AT NORTHEAST CORNER OF ISLAND AV. & WILSON ST.	674.06
OSBM-12	NORTHWEST BOLT OF LIGHT POLE AT SOUTHEAST CORNER OF WATER ST. & WILSON ST.	684.36
OSBM-13	SQUARE CUT ON WEST SIDE OF LIGHT POLE BASE AT ADDRESS #227 WILSON ST.	696.84

**CHRISTOPHER B. BURKE**  
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8575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME: cbepp11  
DESIGNED: CJM  
DRAWN: MAK  
CHECKED: LMF  
DATE: 10/23/2012

REVISIONS:  
REVISIONS:  
REVISIONS:  
REVISIONS:

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

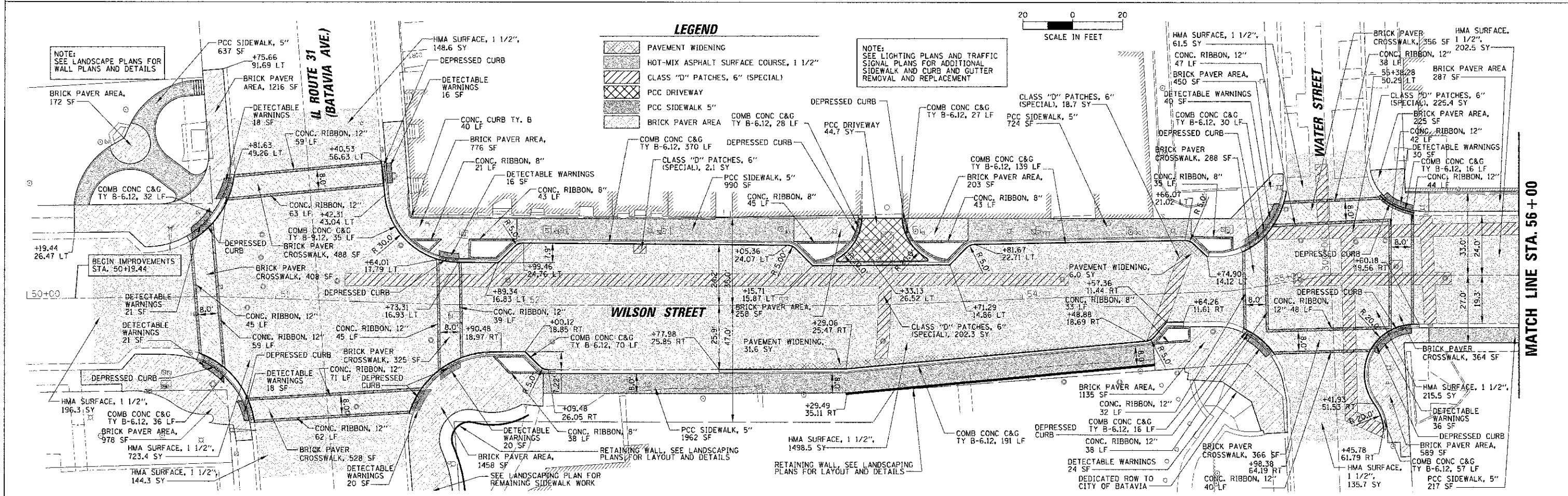
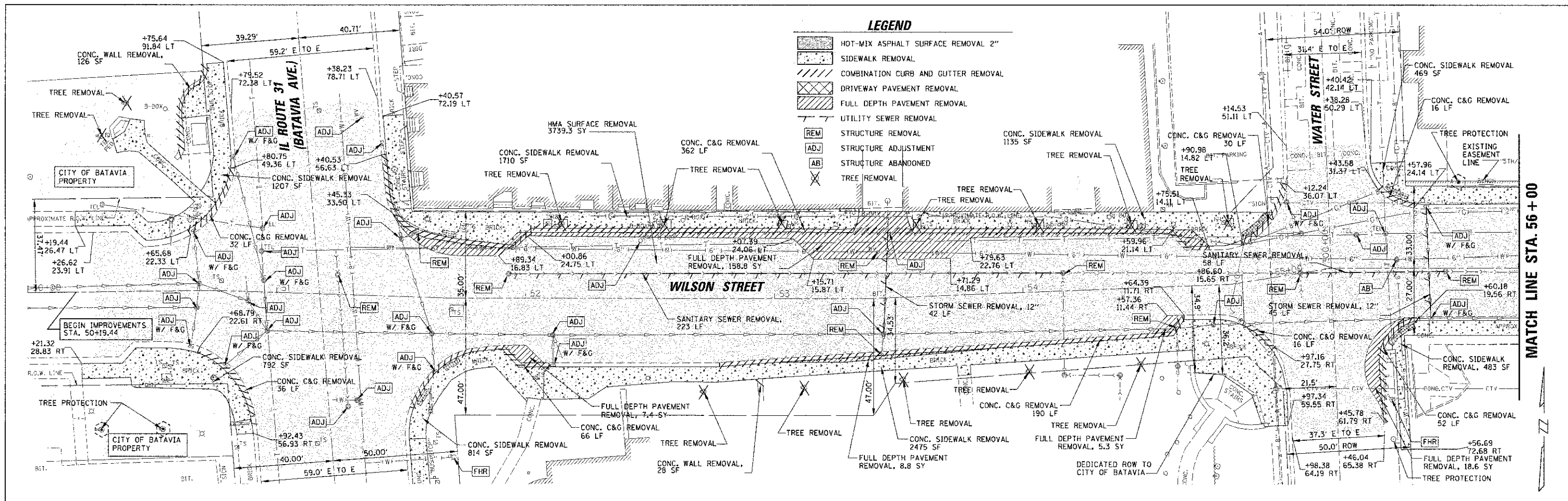
**ALIGNMENT, TIES AND BENCHMARKS  
WILSON STREET**

SCALE: 1"=50' SHEET 7 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	7

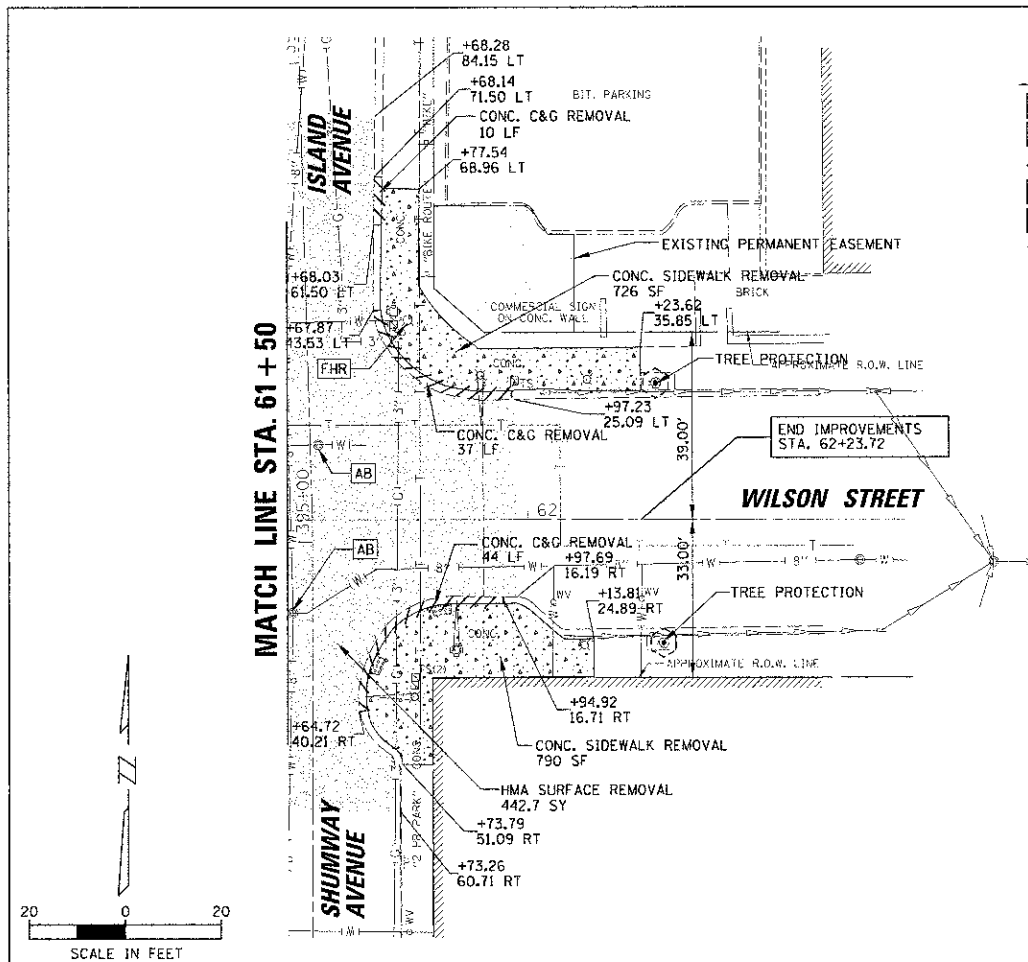
CONTRACT NO. 63763  
ILLINOIS FED. AID PROJECT





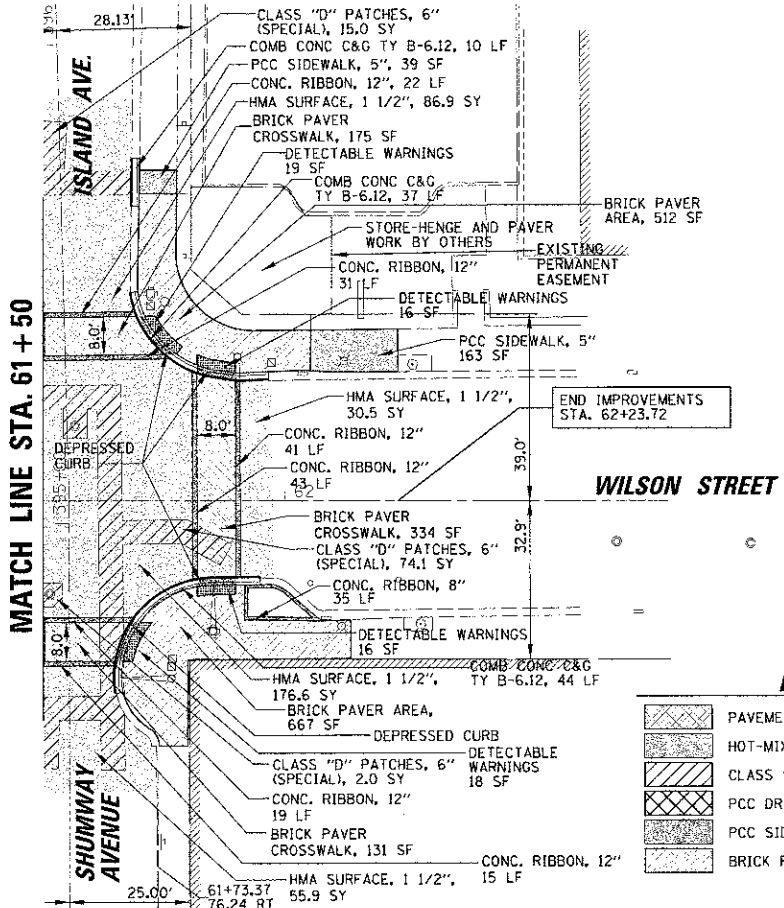
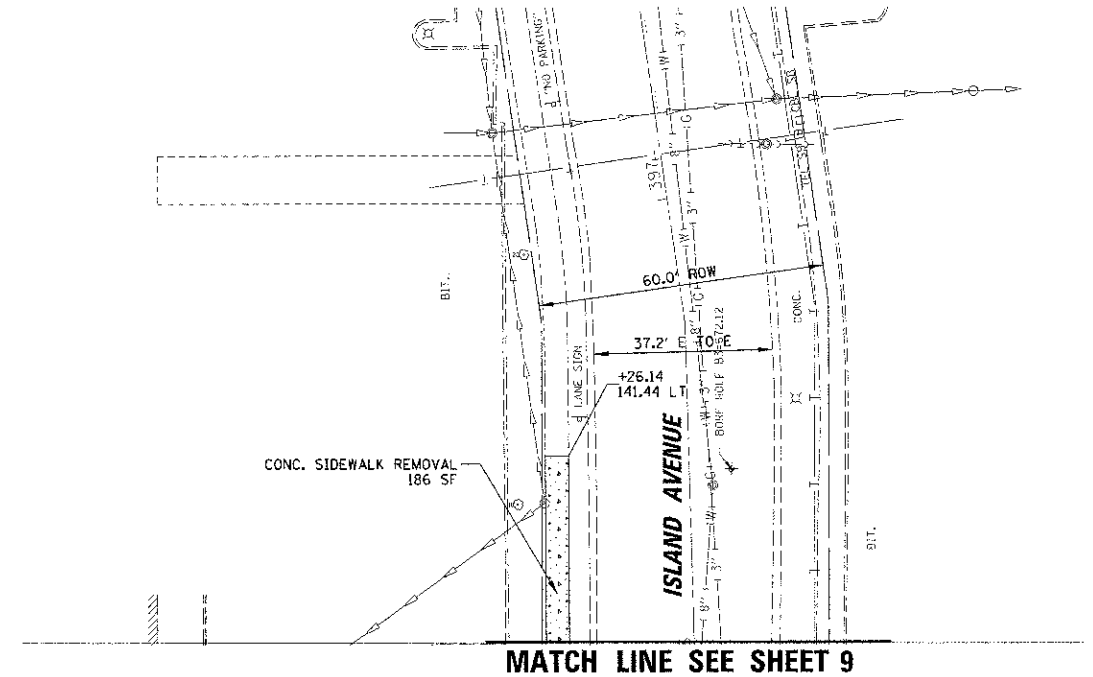
<p><b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500</p>	USER NAME: mkooroo PLOT SCALE: 2"=100' DATE: 1/20/2012	DESIGNED: CJM DRAWN: MAK CHECKED: LMF DATE:	REVISED: - REVISED: - REVISED: - REVISED: -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>  <b>EXISTING CONDITIONS AND REMOVAL PLAN</b> <b>PAVING AND GEOMETRY PLAN</b> <b>WILSON STREET STA. 50+00 TO STA. 56+00</b>	F.A.U. R.T.E.: 1441 SECTION: 12-00073-01-TL COUNTY: KANE TOTAL SHEETS: 88 SHEETS: 8 CONTRACT NO. 63763 ILLINOIS FED. AID PROJECT
	SCALE: 1"=20' SHEET 8 OF 88 SHEETS STA. 50+00 TO STA. 56+00				
	DATE:				
	DATE:				





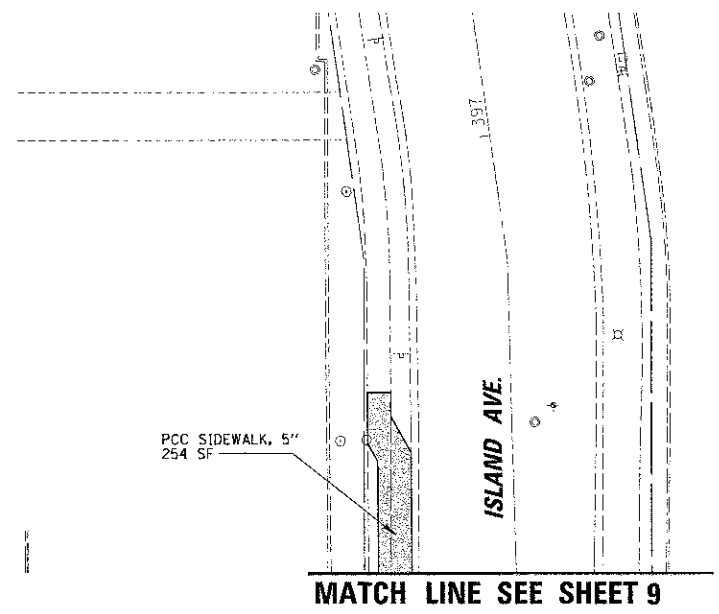
**LEGEND**

[Hatched Pattern]	HOT-MIX ASPHALT SURFACE REMOVAL 2"
[Dotted Pattern]	SIDEWALK REMOVAL
[Diagonal Lines]	COMBINATION CURB AND CUTTER REMOVAL
[Cross-hatched Pattern]	DRIVEWAY PAVEMENT REMOVAL
[Diagonal Lines]	FULL DEPTH PAVEMENT REMOVAL
[Dashed Line]	UTILITY SEWER REMOVAL
[REM]	STRUCTURE REMOVAL
[ADJ]	STRUCTURE ADJUSTMENT
[AB]	STRUCTURE ABANDONED
[X]	TREE REMOVAL



**LEGEND**

[Hatched Pattern]	PAVEMENT WIDENING
[Dotted Pattern]	HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
[Diagonal Lines]	CLASS "D" PATCHES, 6" (SPECIAL)
[Cross-hatched Pattern]	PCC DRIVEWAY
[Diagonal Lines]	PCC SIDEWALK 5"
[Hatched Pattern]	BRICK PAVER AREA



**CB** CHRISTOPHER B. BURKE  
ENGINEERING, LTD.  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0600

USER NAME = mkoance  
PLOT SCALE = 20'  
PLOT DATE = 11/28/2012

DESIGNED CJM  
DRAWN MAK  
CHECKED LMF  
DATE

REVISED -  
REVISED -  
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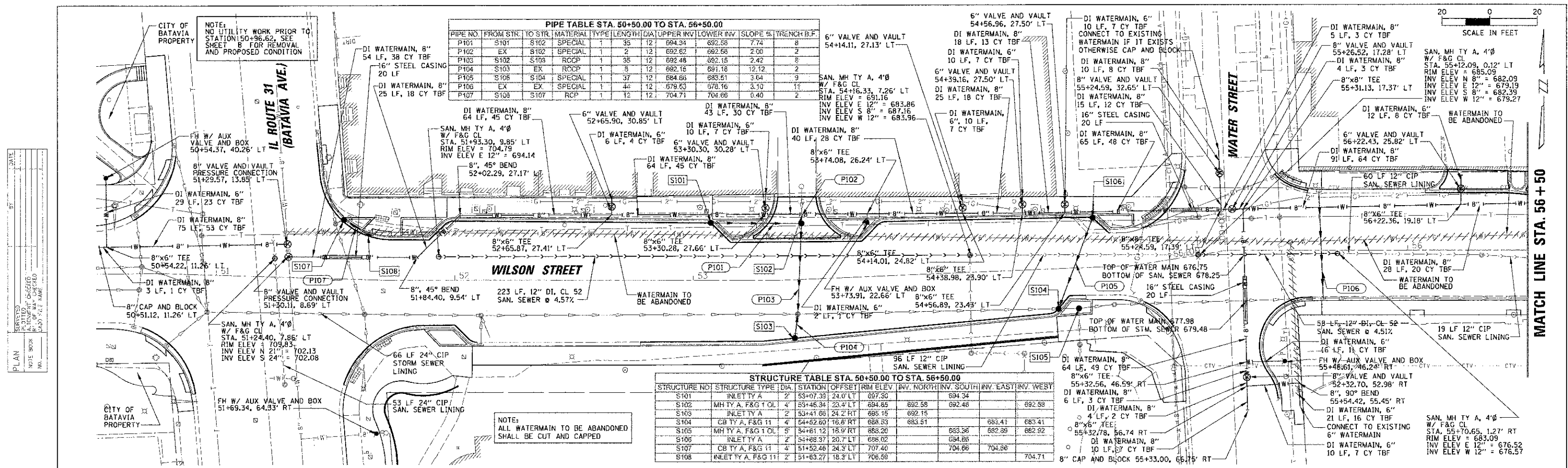
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING CONDITIONS AND REMOVAL PLAN  
PAVING AND GEOMETRY PLAN  
WILSON STREET STA. 61+50 TO STA. 62+23.72**

SCALE: 1"=20' SHEET 10 OF 88 SHEETS STA. 61+50 TO STA. 62+23.72

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	10
			CONTRACT NO. 63763	
ILLINOIS FED. AID PROJECT				





**PIPE TABLE STA. 50+50.00 TO STA. 56+50.00**

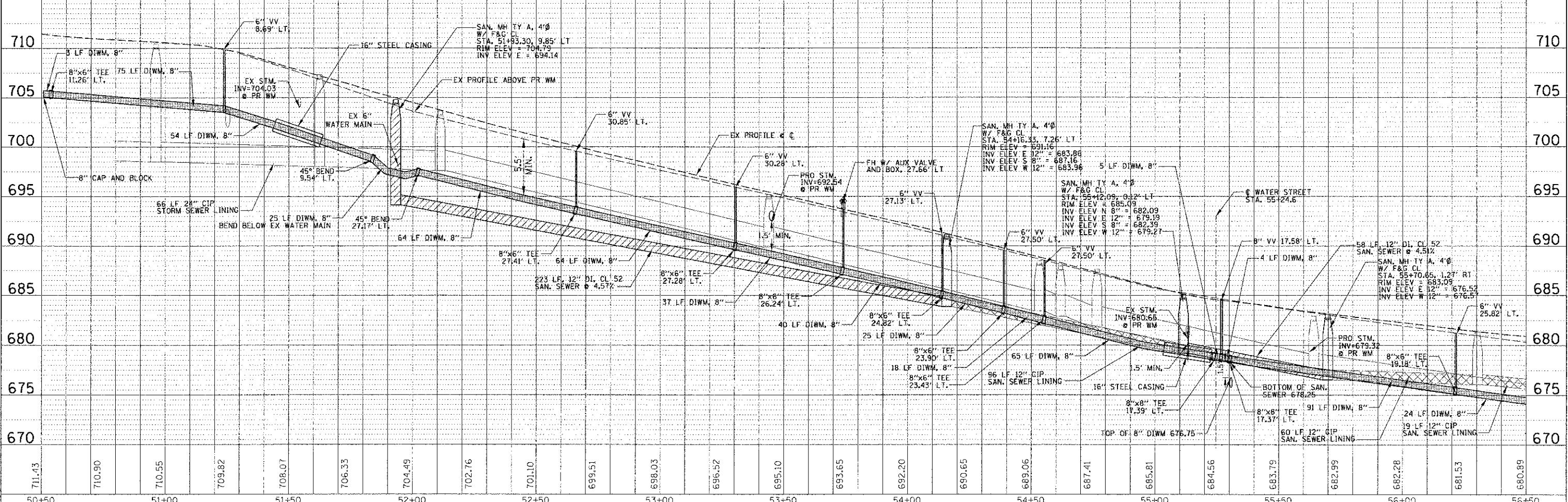
PIPE NO.	FROM STR.	TO STR.	MATERIAL	TYPE	LENGTH	DIA.	UPPER INV.	LOWER INV.	SLOPE %	TRENCH D.F.
P101	S101	S102	SPECIAL	1	35	12	684.34	682.58	7.74	8
P102	EX	S102	SPECIAL	1	2	12	682.62	682.58	2.00	2
P103	S102	S103	RCCP	1	35	12	682.48	681.15	2.42	8
P104	S103	EX	RCCP	1	8	12	682.16	681.18	12.12	2
P105	S106	S104	SPECIAL	1	37	12	684.66	683.51	3.64	9
P106	EX	EX	SPECIAL	1	44	12	679.63	678.16	3.10	11
P107	S108	S107	RCP	1	12	12	704.71	704.66	0.40	2

**STRUCTURE TABLE STA. 50+50.00 TO STA. 56+50.00**

STRUCTURE NO.	STRUCTURE TYPE	DIA.	STATION	OFFSET	RIM ELEV.	INV. NORTH	INV. SOUTH	INV. EAST	INV. WEST
S101	INLET TY A	2	53+07.33	24.0' LT	697.30		694.34		
S102	MH TY A, F&G 1 OL	4	53+46.34	23.4' RT	694.85	692.58	692.48		692.88
S103	INLET TY A	2	53+41.66	24.2' RT	695.15		692.15		
S104	CB TY A, F&G 1 OL	4	54+52.60	16.8' RT	688.33	683.81		683.41	683.41
S105	MH TY A, F&G 1 OL	5	54+61.12	18.9' RT	688.26	683.36	682.89		682.92
S106	INLET TY A	2	54+68.37	20.7' LT	688.02		684.83		
S107	CB TY A, F&G 1 OL	4	51+52.46	24.3' LT	707.40		704.66		704.66
S108	INLET TY A, F&G 1 OL	2	51+63.27	18.3' LT	706.59				704.71

PLAN  
 DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PROFILE  
 DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
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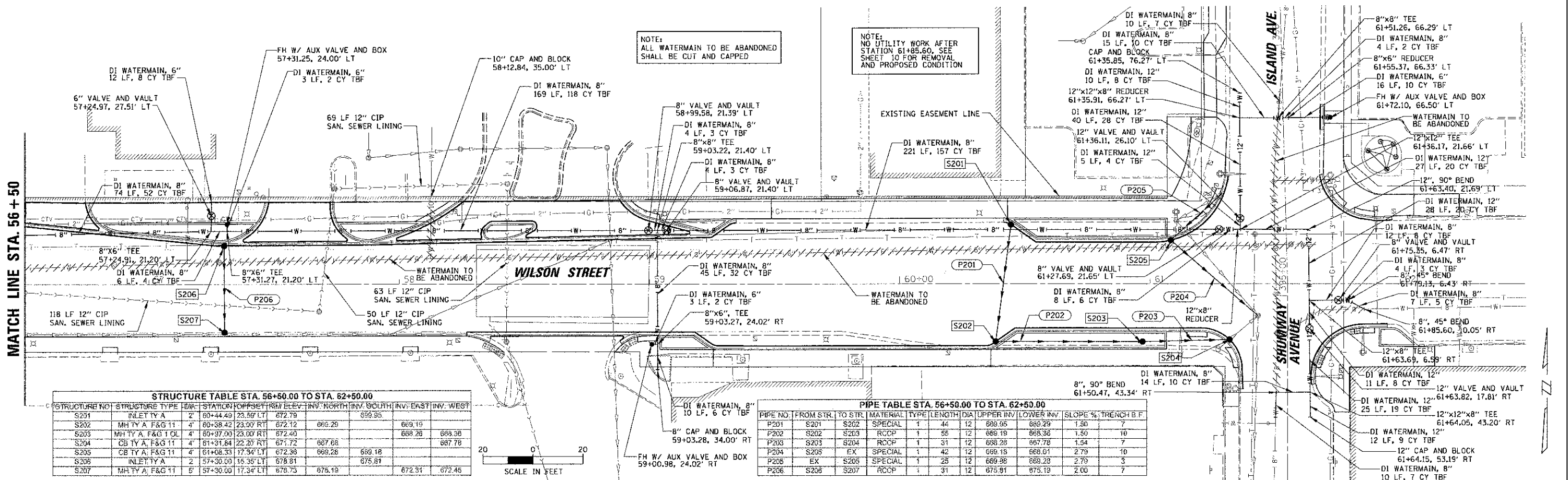


DATE		
BY		
REVISIONS		
NO. 1	DATE	DESCRIPTION
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MATCH LINE STA. 56+50

NOTE:  
ALL WATERMAIN TO BE ABANDONED  
SHALL BE CUT AND CAPPED

NOTE:  
NO UTILITY WORK AFTER  
STATION 61+85.60, SEE  
SHEET 10 FOR REMOVAL  
AND PROPOSED CONDITION



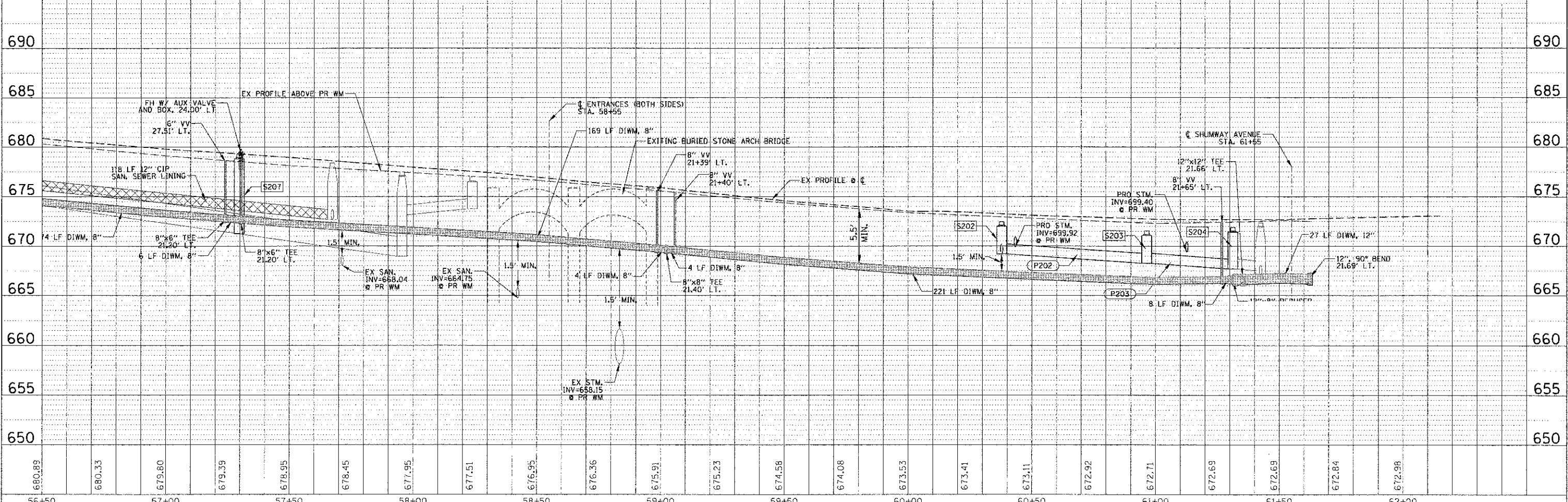
**STRUCTURE TABLE STA. 56+50.00 TO STA. 62+50.00**

STRUCTURE NO.	STRUCTURE TYPE	DIA.	STATION	OFFSET	INVERT ELEV.	INVERT NORTH	INVERT SOUTH	INVERT EAST	INVERT WEST
S201	INLET TY A	2'	60+44.49	23.59' LT	672.79		669.29	669.95	
S202	MH TY A F&G 11	4'	60+38.42	23.00' RT	672.12		669.19	669.38	
S203	MH TY A F&G 10L	4'	60+37.00	23.00' RT	672.40		668.26	668.38	
S204	CB TY A F&G 11	4'	61+31.64	22.20' RT	671.72		667.68	667.78	
S205	CB TY A F&G 11	4'	61+08.33	17.34' LT	672.38		669.18	669.18	
S206	INLET TY A	2'	57+30.00	15.35' LT	678.81		675.81		
S207	MH TY A F&G 11	5'	57+30.00	17.34' LT	678.73		675.19	672.45	

**PIPE TABLE STA. 56+50.00 TO STA. 62+50.00**

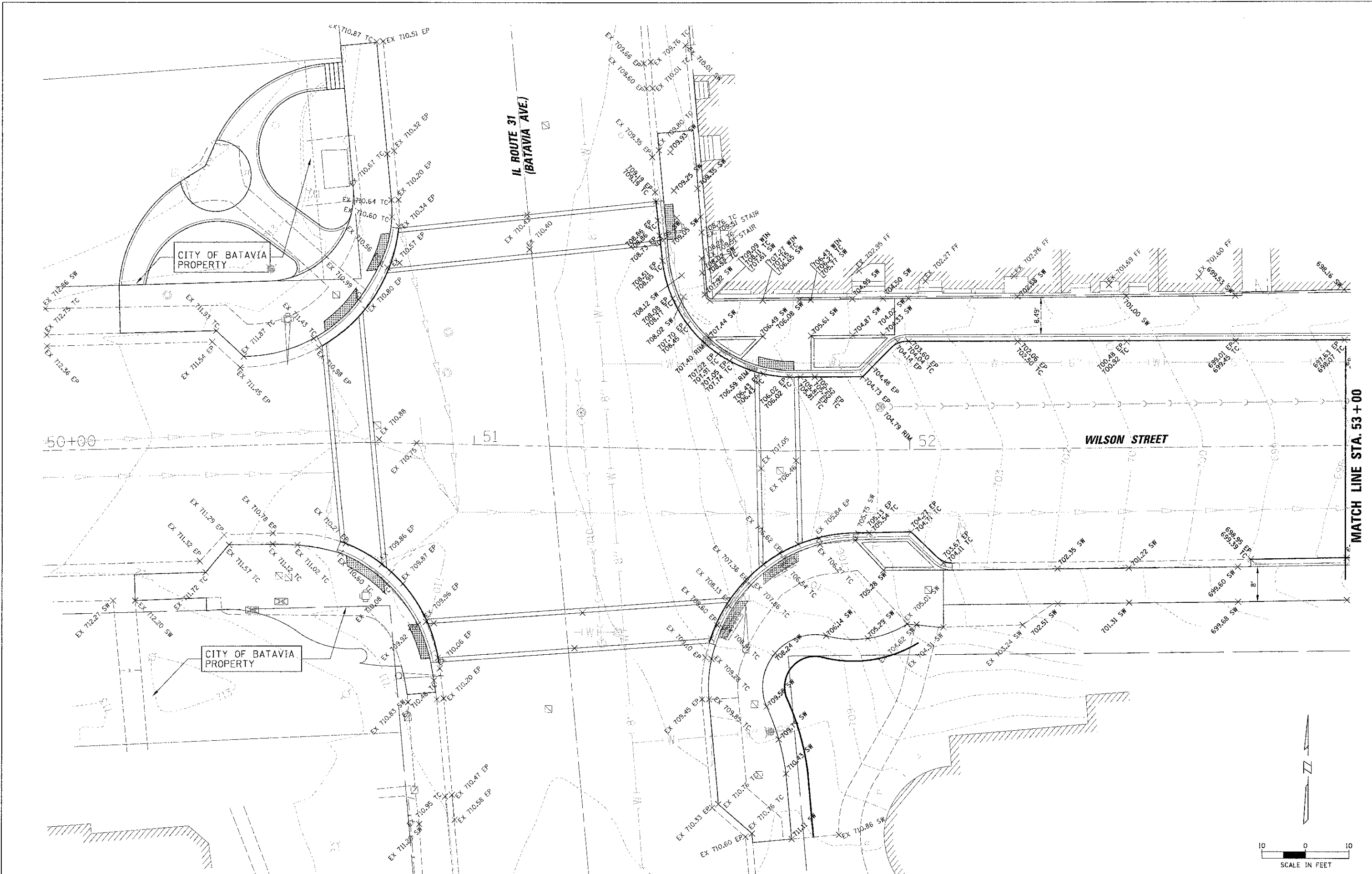
PIPE NO.	FROM STR.	TO STR.	MATERIAL	TYPE	LENGTH	DIA.	UPPER INV.	LOWER INV.	SLOPE %	TRENCH B.F.
P201	S201	S202	SPECIAL	1	44	12	669.95	669.29	1.50	7
P202	S202	S203	RCCP	1	55	12	669.19	668.38	1.50	10
P203	S203	S204	RCCP	1	31	12	668.26	667.78	1.54	7
P204	S205	EX	SPECIAL	1	42	12	669.18	668.01	2.79	10
P205	EX	S205	SPECIAL	1	25	12	669.98	669.28	2.79	3
P206	S206	S207	RCCP	1	31	12	675.81	675.19	2.00	7

DATE		
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REVISIONS		
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<p><b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500</p>	USER NAME = cburpc01 DESIGNED <i>CJM</i> DRAWN <i>MAK</i> CHECKED <i>LMI</i> DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>UTILITY PLAN AND PROFILE</b> <b>WILSON STREET STA. 56+50 TO STA. 62+50</b>	F.A.U. RTE. 1441 SECTION 12-00073-01-TL COUNTY KANE TOTAL SHEETS 88 SHEET NO. 12 CONTRACT NO. 63763
	PLOT SCALE = 2" PLOT DATE = 10/23/2012	DATE -	SCALE: 1"=20' SHEET 12 OF 88 SHEETS STA. 56+50 TO STA. 62+50	(ILLINOIS) FED. AID PROJECT	

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**CHRISTOPHER B. BURKE**  
 ENGINEERING, LTD.  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

USER NAME: cbepe11  
 DESIGNED: CJM  
 DRAWN: MAK  
 CHECKED: LMF  
 DATE: 10/23/2012

REVISED: -  
 REVISED: -  
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 REVISED: -

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

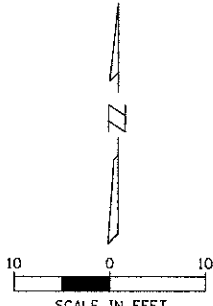
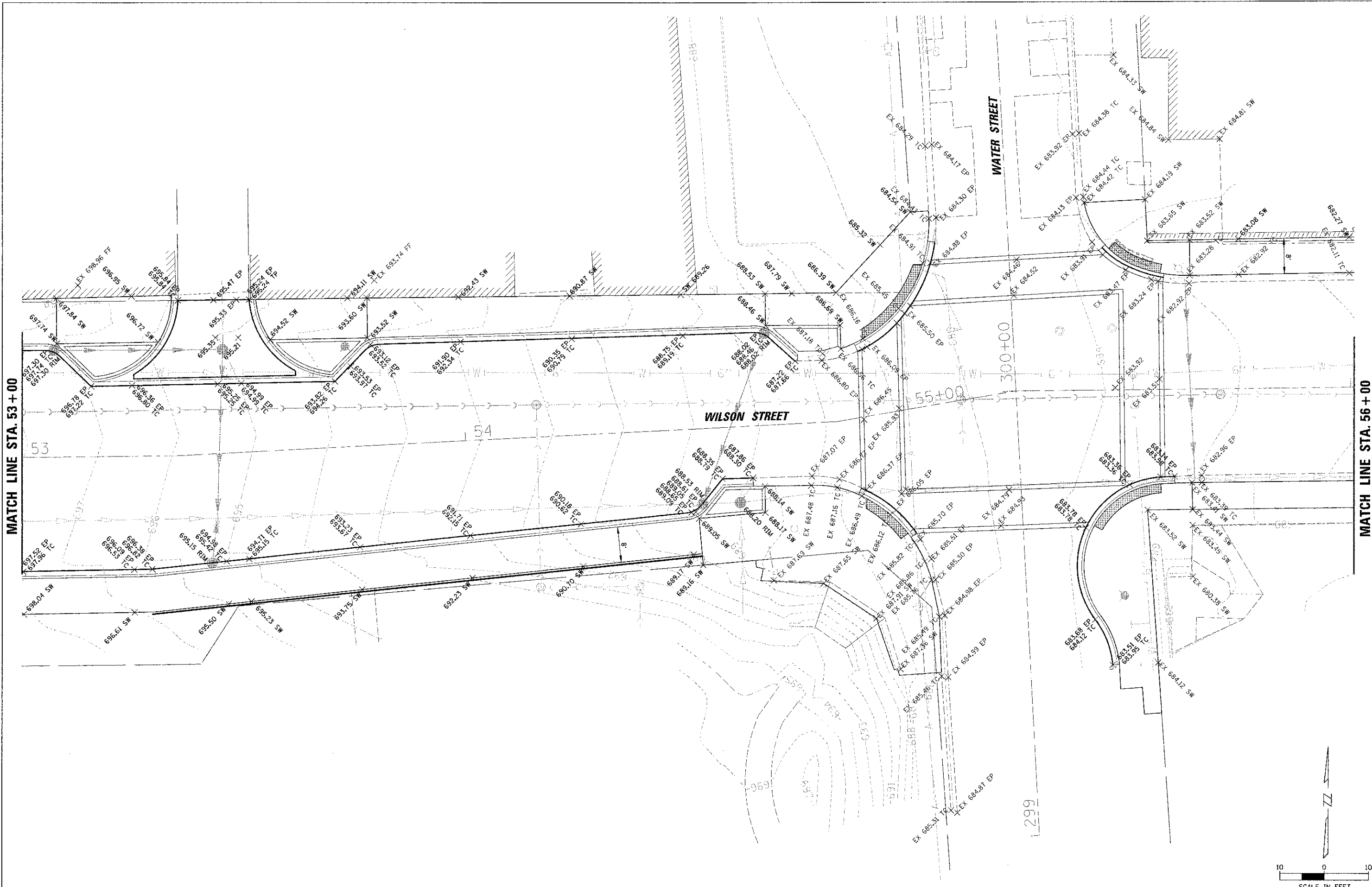
**GRADING PLAN**  
**WILSON STREET**

SCALE: 1"=10'    SHEET 13    OF 88 SHEETS    STA. 50+00    TO STA. 53+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	13
				CONTRACT NO. 63763
ILLINOIS FED. AID PROJECT				

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**CB**  
**CHRISTOPHER B. BURKE**  
 ENGINEERING, LTD.  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

USER NAME = cbp01  
 PLOT SCALE = 1"=10'  
 PLOT DATE = 12/23/2012

DESIGNED *CJM*  
 DRAWN *HAK*  
 CHECKED *LMF*  
 DATE -

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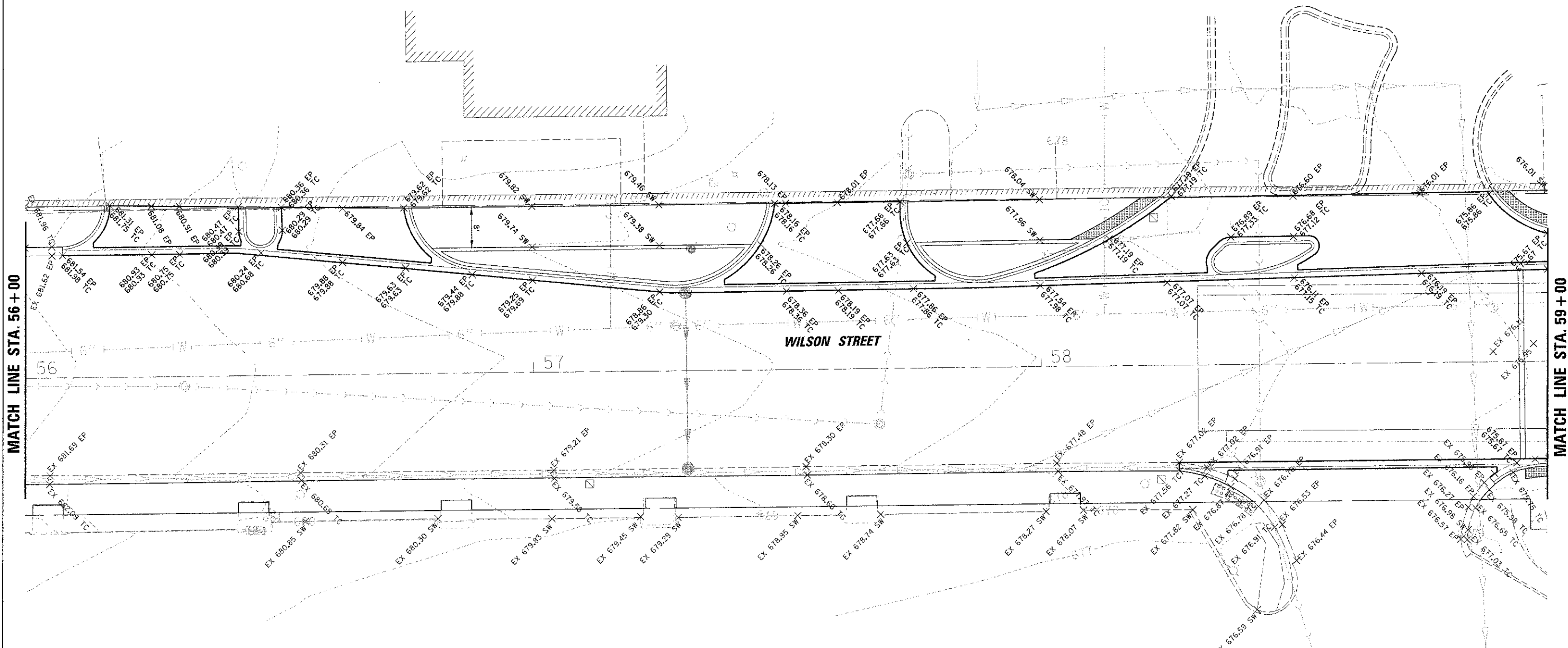
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**  
**WILSON STREET**

SCALE: 1"=10' SHEET 14 OF 88 SHEETS STA. 53+00 TO STA. 56+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	14
CONTRACT NO. 63763				
ILLINOIS FED. AID PROJECT				

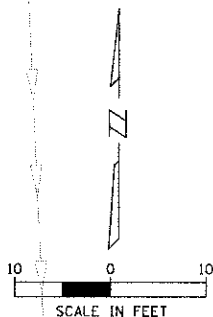
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MATCH LINE STA. 56 + 00

MATCH LINE STA. 59 + 00

WILSON STREET



**CB**  
**CHRISTOPHER B. BURKE**  
 ENGINEERING, LTD.  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

USCR NAME = cbepl1	DESIGNED <i>CJM</i>	REVISED -
	DRAWN <i>MAK</i>	REVISED -
PLOT SCALE = 1" = 10'	CHECKED <i>LMF</i>	REVISED -
PLOT DATE = 10/23/2012	DATE -	REVISED -

DESIGNED <i>CJM</i>	REVISED -
DRAWN <i>MAK</i>	REVISED -
CHECKED <i>LMF</i>	REVISED -
DATE -	REVISED -

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

**GRADING PLAN**  
**WILSON STREET**

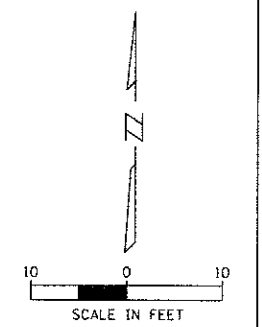
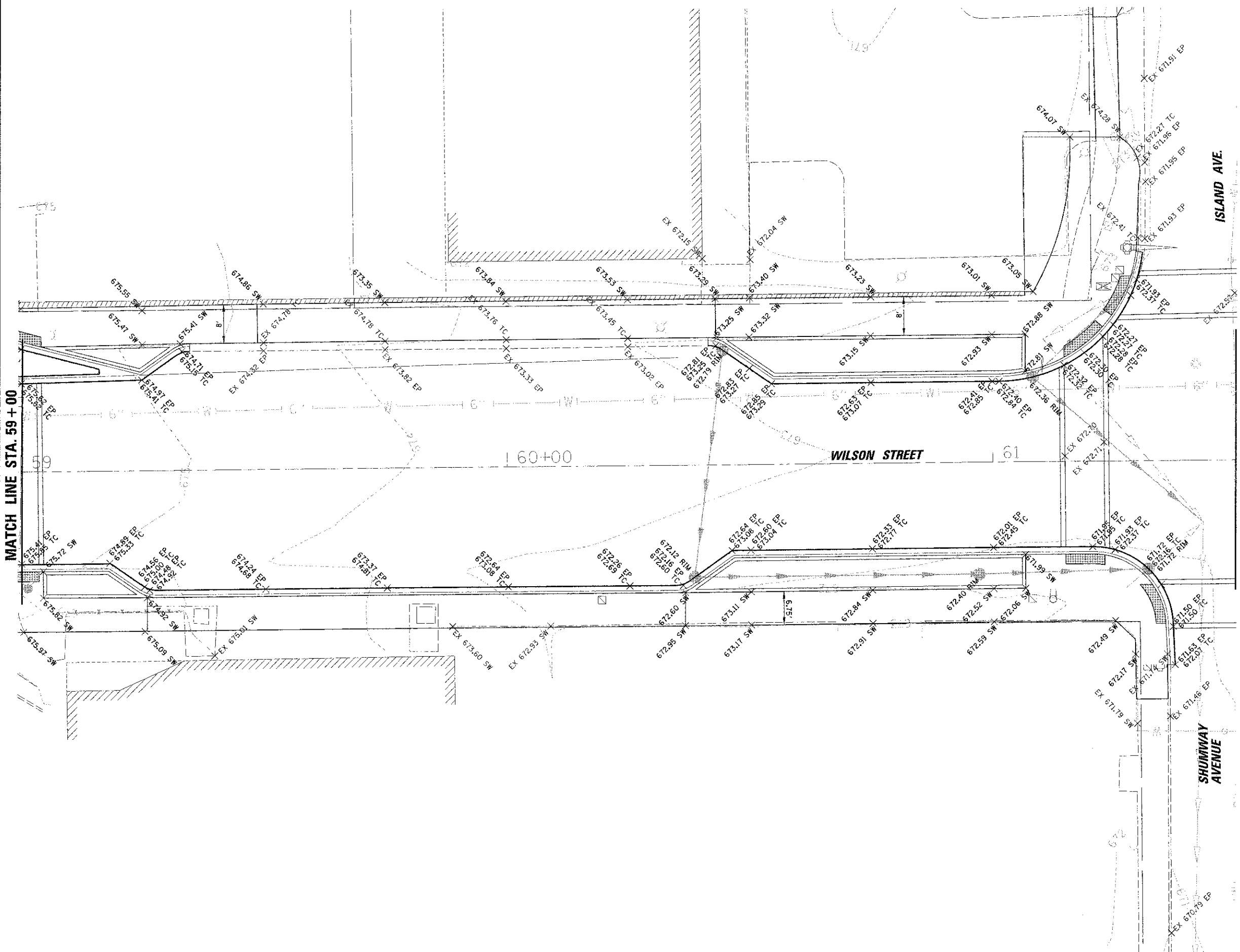
SCALE: 1"=10' SHEET 15 OF 88 SHEETS STA. 56+00 TO STA. 59+00

F.A.U. RTE. 1441	SECTION 12-C0073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 15
CONTRACT NO. 63763				ILLINOIS FED. AID PROJECT

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MATCH LINE STA. 59+00

MATCH LINE STA. 61+50



**CHRISTOPHER B. BURKE**  
 ENGINEERING, LTD.  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

USER NAME = cberrell	DESIGNED <i>CJM</i>	REVISED -
DRAWN <i>MAX</i>	CHECKED <i>LMF</i>	REVISED -
DATE		REVISED -

PL. 02 SCALE = 10'
PLOT DATE = 10/23/2012

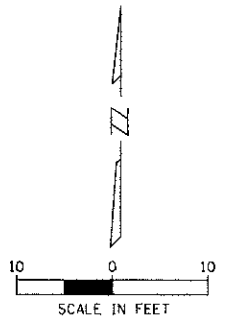
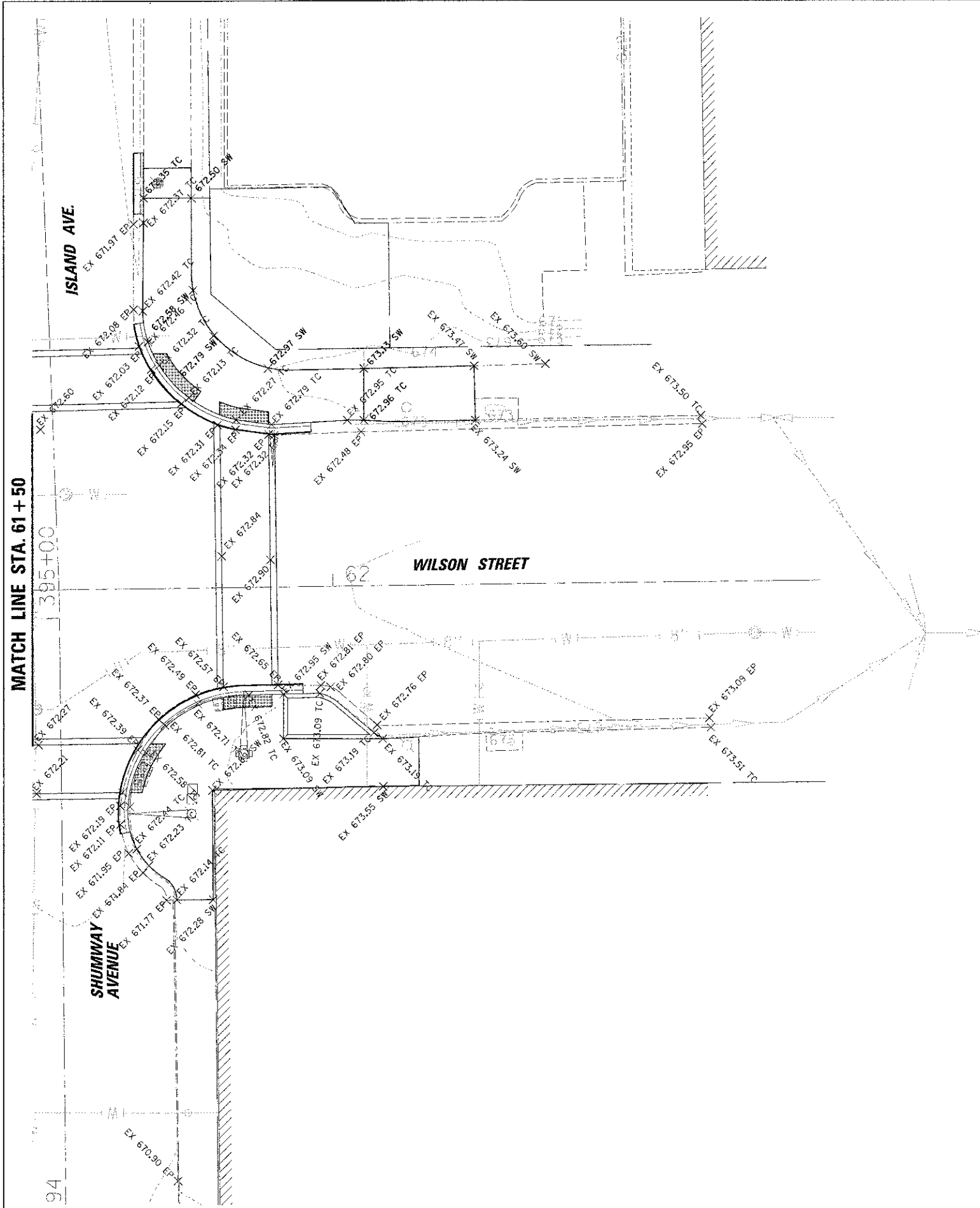
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**  
**WILSON STREET**

SCALE: 1"=10'    SHEET 16    OF 88 SHEETS    STA. 59+00    TO STA. 61+50

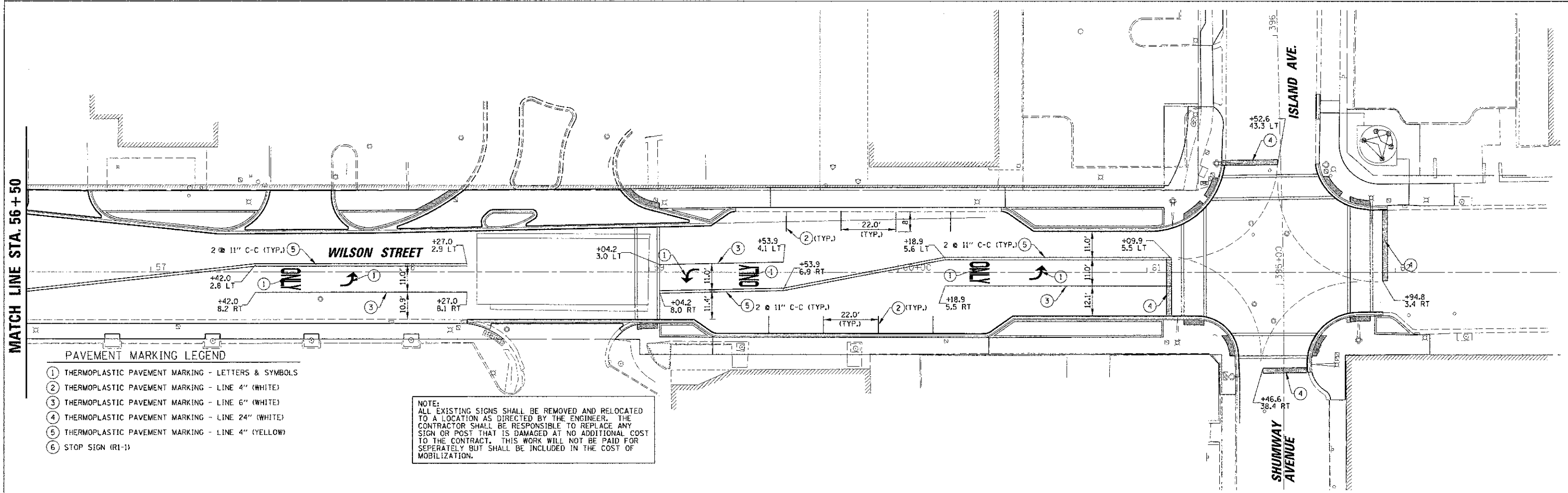
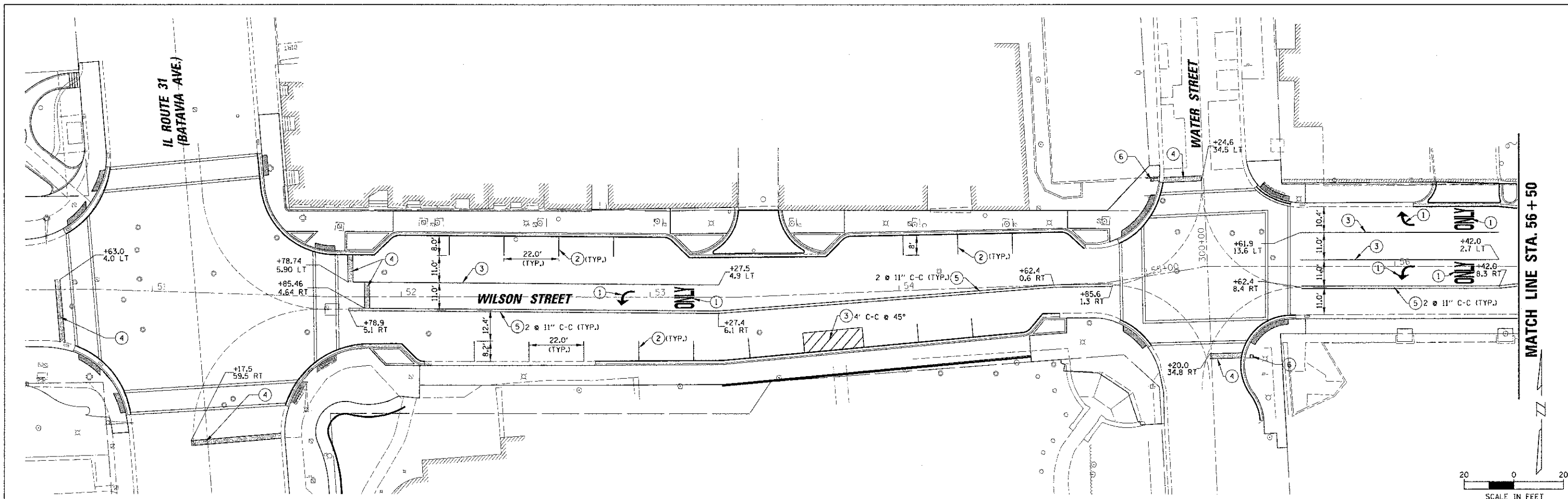
F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 16
ILLINOIS FED. AID PROJECT				CONTRACT NO. 63763





<b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 8578 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = cburke11 PLOT SCALE = 1"=10' PLOT DATE = 10/23/2012	DESIGNED <i>CJM</i> DRAWN <i>MAK</i> CHECKED <i>LMF</i> DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b> <b>WILSON STREET</b>	F.A.L. RTE. 144 SECTION 12-00073-01-TL COUNTY KANE TOTAL SHEETS 88 SHEET NO. 17 CONTRACT NO. 63763	SCALE: 1"=10' SHEET 17 OF 88 SHEETS STA. 61+50 TO STA. 62+79 (ILLINOIS) FED. AID PROJECT
	PROJECT NO. 12-00073-01-TL						

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**PAVEMENT MARKING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ STOP SIGN (R1-1)

NOTE:  
 ALL EXISTING SIGNS SHALL BE REMOVED AND RELOCATED TO A LOCATION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY SIGN OR POST THAT IS DAMAGED AT NO ADDITIONAL COST TO THE CONTRACT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF MOBILIZATION.

**CHRISTOPHER B. BURKE**  
 ENGINEERING, LTD.  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0600

USER NAME = mkoance  
 PLOT SCALE = 20'  
 PLOT DATE = 11/29/2012

DESIGNED *CJM*  
 DRAWN *MAK*  
 CHECKED *LMF*  
 DATE -

REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
 WILSON STREET STA. 50+50 TO STA. 62+50**  
 SCALE: 1"=20' SHEET 18 OF 88 SHEETS STA. 50+50 TO STA. 62+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	18

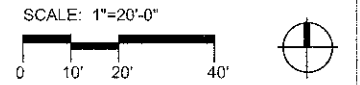
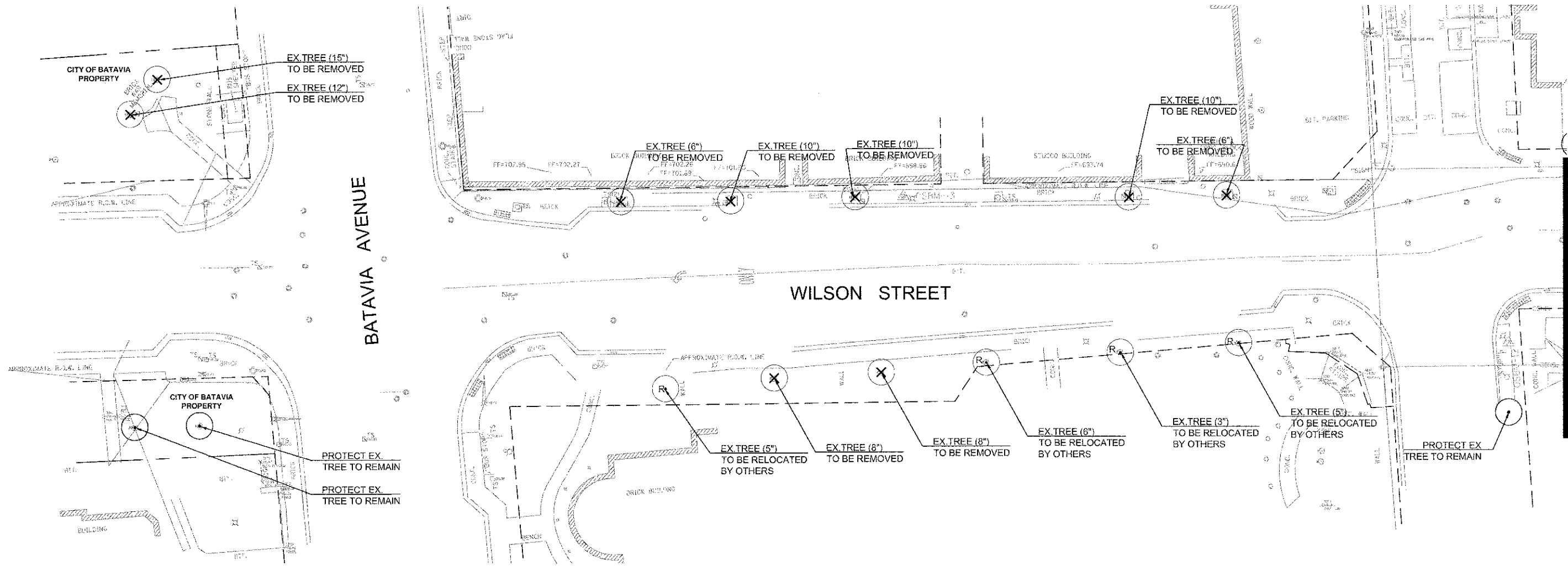
CONTRACT NO. 63763  
 ILLINOIS FED. AID PROJECT

# LEGEND

- PROTECT EXISTING TREE TO REMAIN
- ✕ EXISTING TREE TO BE REMOVED
- R• EXISTING TREE TO BE RELOCATED BY OTHERS

PROJECT LIMITS STA. 50+00

MATCH LINE STA. 55+70



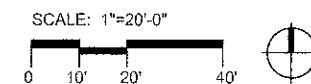
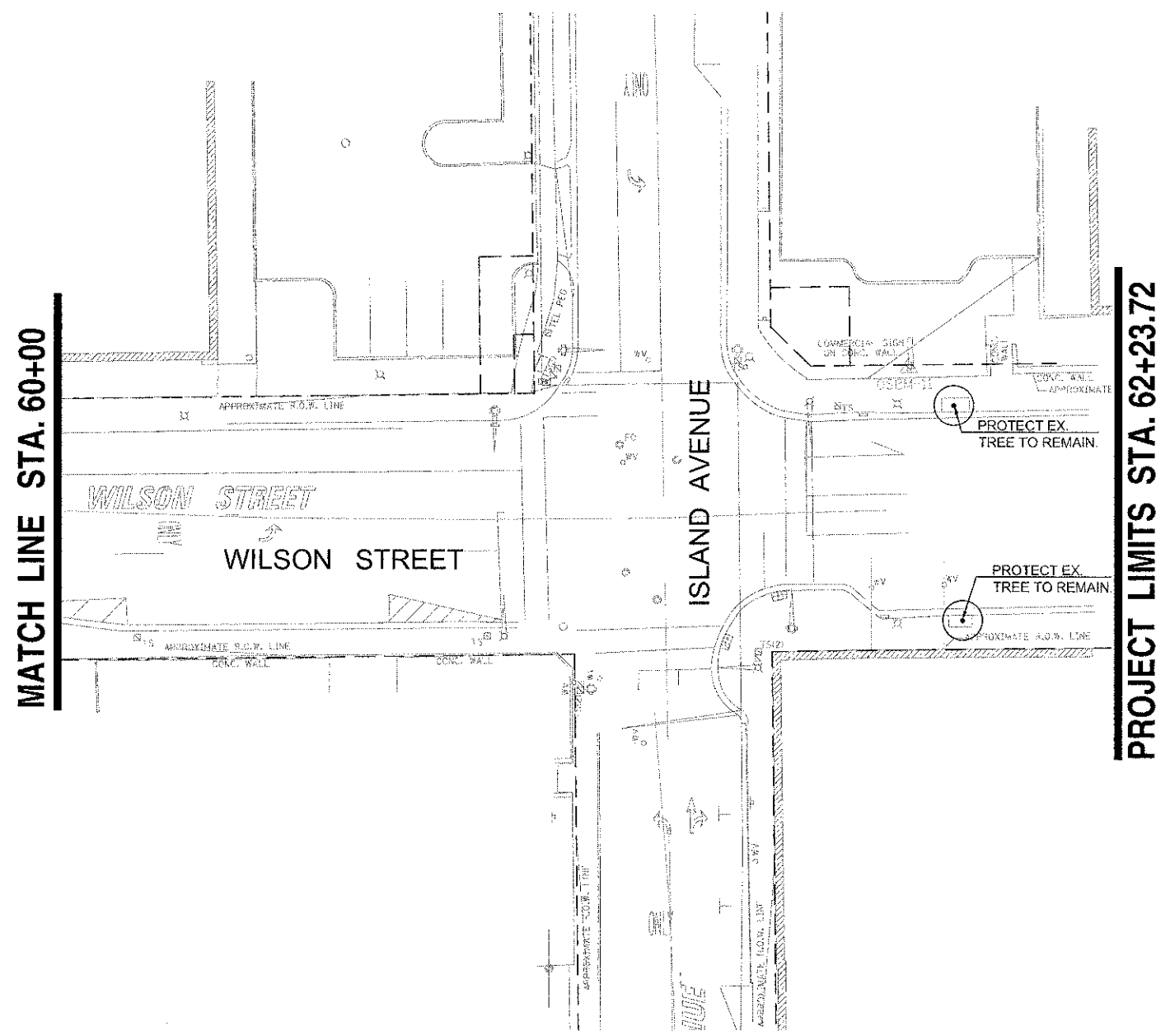
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	PLOT SCALE =	DRAWN — JC & SM	REVISED —			1441	12-00073-01-TL	KANE	88	19
PLOT DATE =	CHECKED — JB	DATE — 10.18.2012	REVISED —	SCALE: SHEET OF SHEETS STA. 50+00 TO STA. 55+70		63763 CONTRACT NO.		ILLINOIS FED. AID PROJECT		





# LEGEND

- PROTECT EXISTING TREE TO REMAIN
- ⊗ EXISTING TREE TO BE REMOVED



FILE NAME =	USER NAME	DESIGNED — JB & JM	REVISED —
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	PLOT SCALE =	CHECKED — JB	REVISED —
	PLOT DATE =	DATE — 10.18.2012	REVISED —














**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TREE PRESERVATION AND REMOVAL PLAN**  
STA. 60+00 TO STA. 62+23.72

SCALE: SHEET OF SHEETS STA. 60+00 TO STA. 62+23.72

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	21
63763 CONTRACT NO.			ILLINOIS FED. AID PROJECT	

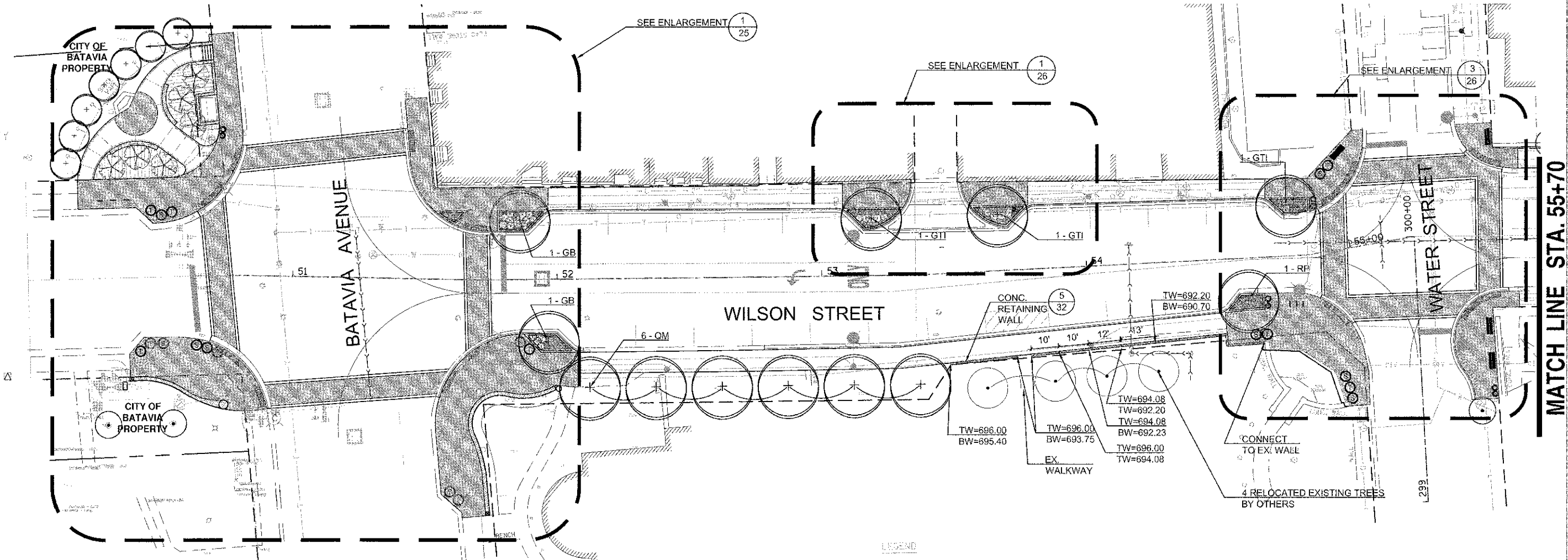
# LEGEND

-  PROPOSED SHADE TREE
-  PROPOSED SHRUBS
-  CONCRETE PAVEMENT (SEE ENG)
-  CLAY BRICK PAVERS
-  CLAY BRICK PAVER SOLDIER COURSE (SEE PLAN)
-  TRUNCATED DOME CLAY BRICK PAVER
-  BRICK PAVER CROSSWALK (SEE ENG)
-  BACKED BENCHES
-  30" HEIGHT PRECAST PLANTERS
-  18" HEIGHT PRECAST PLANTERS
-  LITTER RECEPTACLE
-  RECYCLING LITTER RECEPTACLE
-  BIKE RACKS

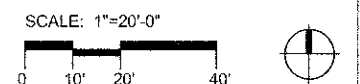
WILSON STREET MASTER PLANT SCHEDULE

Plant Code	Qty	Size	Botanical Name	Common Name	Form	Spacing	Comments
<b>Trees</b>							
CO	2	3"	<i>Celtis occidentalis</i> 'Chicagoana'	Chicagoana Hackberry	B&B	See Plan	
GB	2	3"	<i>Ginkgo biloba</i>	Ginkgo	B&B	See Plan	Male only
GII	4	3"	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Imperial'	Imperial Honey Locust	B&B	See Plan	
GI	3	3"	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Thornless Honey Locust	B&B	See Plan	
PA	5	3"	<i>Platanus x acerifolia</i> 'Bloodgood'	Bloodgood London Planetree	B&B	See Plan	
QM	6	3"	<i>Quercus macrocarpa</i>	Bur Oak	B&B	See Plan	
RP	2	3"	<i>Robinia pseudoacacia</i> 'Chicago Blues'	Chicago Blues Black Locust	B&B	See Plan	Budded
UT	2	3"	<i>Ulmus Mortonii</i> 'Glossy'	Triumph Elm	B&B	See Plan	propagation only

PROJECT LIMITS STA. 50+00



MATCH LINE STA. 55+70
















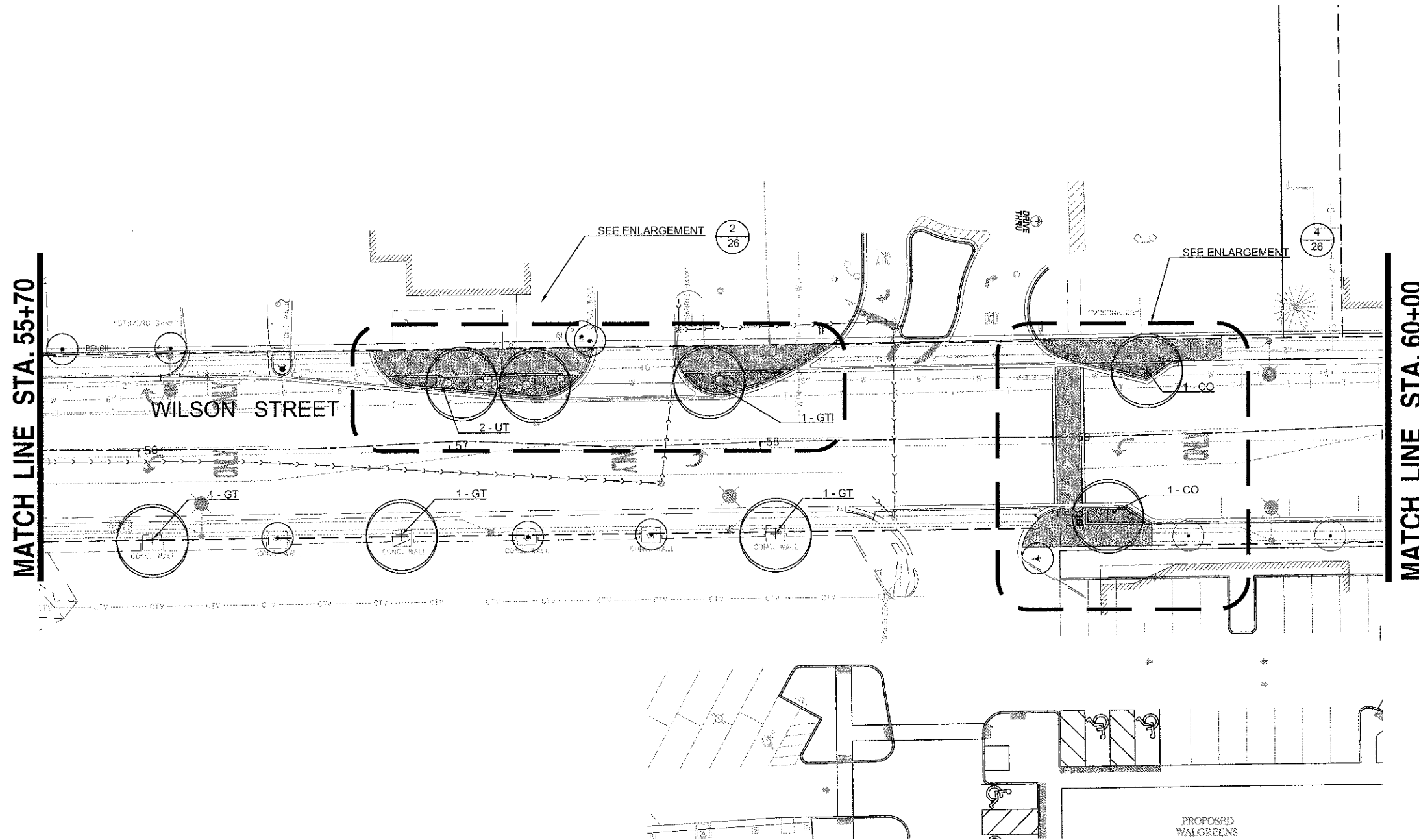
FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPE PLAN</b> WILSON STREET STA. 50+00 TO STA. 55+70	F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 22	
\$FILEL\$	DRAWN -- JC & SM	REVISIONS				SCALE:	SHEET OF SHEETS	STA. 50+00 TO STA. 55+70	63763	CONTRACT NO.	ILLINOIS FED. AID PROJECT
PLOT SCALE =	CHECKED -- JB	REVISIONS									
PLOT DATE =	DATE -- 10.18.2012	REVISIONS									

WILSON STREET MASTER PLANT SCHEDULE

Plant Code	Qty	Size	Botanical Name	Common Name	Form	Spacing	Comments
<b>Trees</b>							
CO	2	3"	<i>Celtis occidentalis</i> 'ChicagoLand'	ChicagoLand Hackberry	8&8	See Plan	
GB	2	3"	<i>Ginkgo biloba</i>	Ginkgo	8&8	See Plan	Male only
GI	4	3"	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Imperial'	Imperial Honey Locust	8&8	See Plan	
GT	3	3"	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Thornless Honey Locust	8&8	See Plan	
PA	5	3"	<i>Platanus x acerifolia</i> 'Bloodgood'	Bloodgood London Planetree	8&8	See Plan	
QM	6	3"	<i>Quercus macrocarpa</i>	Bur Oak	8&8	See Plan	
RP	2	3"	<i>Robinia pseudoacacia</i> 'Chicago Blues'	Chicago Blues Black Locust	8&8	See Plan	Budded
UT	2	3"	<i>Ulmus</i> 'Morton Glossy'	Triumph Elm	8&8	See Plan	propagation only

LEGEND

-  PROPOSED SHADE TREE
-  PROPOSED SHRUBS
-  CONCRETE PAVEMENT (SEE ENG)
-  CLAY BRICK PAVERS
-  CLAY BRICK PAVER SOLDIER COURSE (SEE PLAN)
-  TRUNCATED DOME CLAY BRICK PAVER
-  BRICK PAVER CROSSWALK (SEE ENG)
-  BACKED BENCHES
-  30" HEIGHT PRECAST PLANTERS
-  18" HEIGHT PRECAST PLANTERS
-  LITTER RECEPTACLE
-  RECYCLING LITTER RECEPTACLE
-  BIKE RACKS
















SCALE: 1"=20'-0"



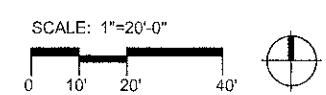
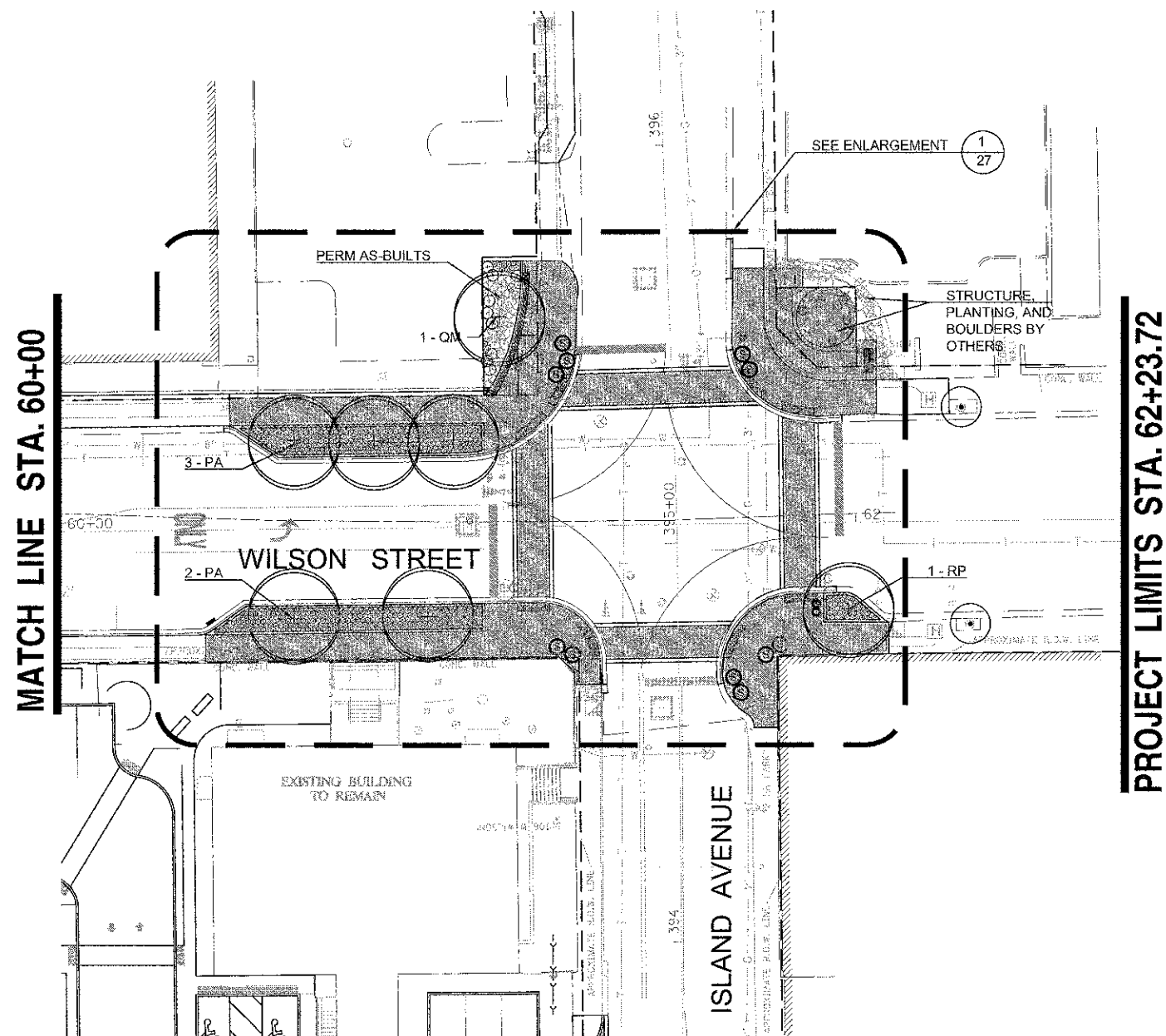
FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPE PLAN</b> WILSON STREET STA. 50+70 TO STA. 60+00	F.A.111 RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 23	
\$FILE\$	PLOT SCALE =	DRAWN -- JC & SM	REVISED --			SCALE:	SHEET OF SHEETS	63763 CONTRACT NO.		ILLINOIS FED. AID PROJECT	
	PLOT DATE =	CHECKED -- JB	REVISED --			STA. 50+70	TO STA. 60+00				
		DATE -- 10.18.2012	REVISED --								

# LEGEND

-  PROPOSED SHADE TREE
-  PROPOSED SHRUBS
-  CONCRETE PAVEMENT (SEE ENG)
-  CLAY BRICK PAVERS
-  CLAY BRICK PAVER SOLDIER COURSE (SEE PLAN)
-  TRUNCATED DOME CLAY BRICK PAVER
-  BRICK PAVER CROSSWALK (SEE ENG)
-  BACKED BENCHES
-  30" HEIGHT PRECAST PLANTERS
-  18" HEIGHT PRECAST PLANTERS
-  LITTER RECEPTACLE
-  RECYCLING LITTER RECEPTACLE
-  BIKE RACKS

WILSON STREET MASTER PLANT SCHEDULE

Plant Code	Qty	Size	Botanical Name	Common Name	Form	Spacing	Comments
CO	2	3"	<i>Celtis occidentalis</i> 'ChicagoLand'	ChicagoLand Hackberry	B&B	See Plan	
GB	2	3"	<i>Ginkgo biloba</i>	Ginkgo	B&B	See Plan	Male only
GH	4	3"	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Imperial'	Imperial Honey Locust	B&B	See Plan	
GT	3	3"	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Thornless Honey Locust	B&B	See Plan	
PA	5	3"	<i>Platanus x acerifolia</i> 'Bloodgood'	Bloodgood London Planetree	B&B	See Plan	
QM	6	3"	<i>Quercus macrocarpa</i>	Bur Oak	B&B	See Plan	
RP	2	3"	<i>Robinia pseudoacacia</i> 'Chicago Blues'	Chicago Blues Black Locust	B&B	See Plan	Shaded propagation only
UT	2	3"	<i>Ulmus</i> 'Morton Glassy'	Triumph Elm	B&B	See Plan	

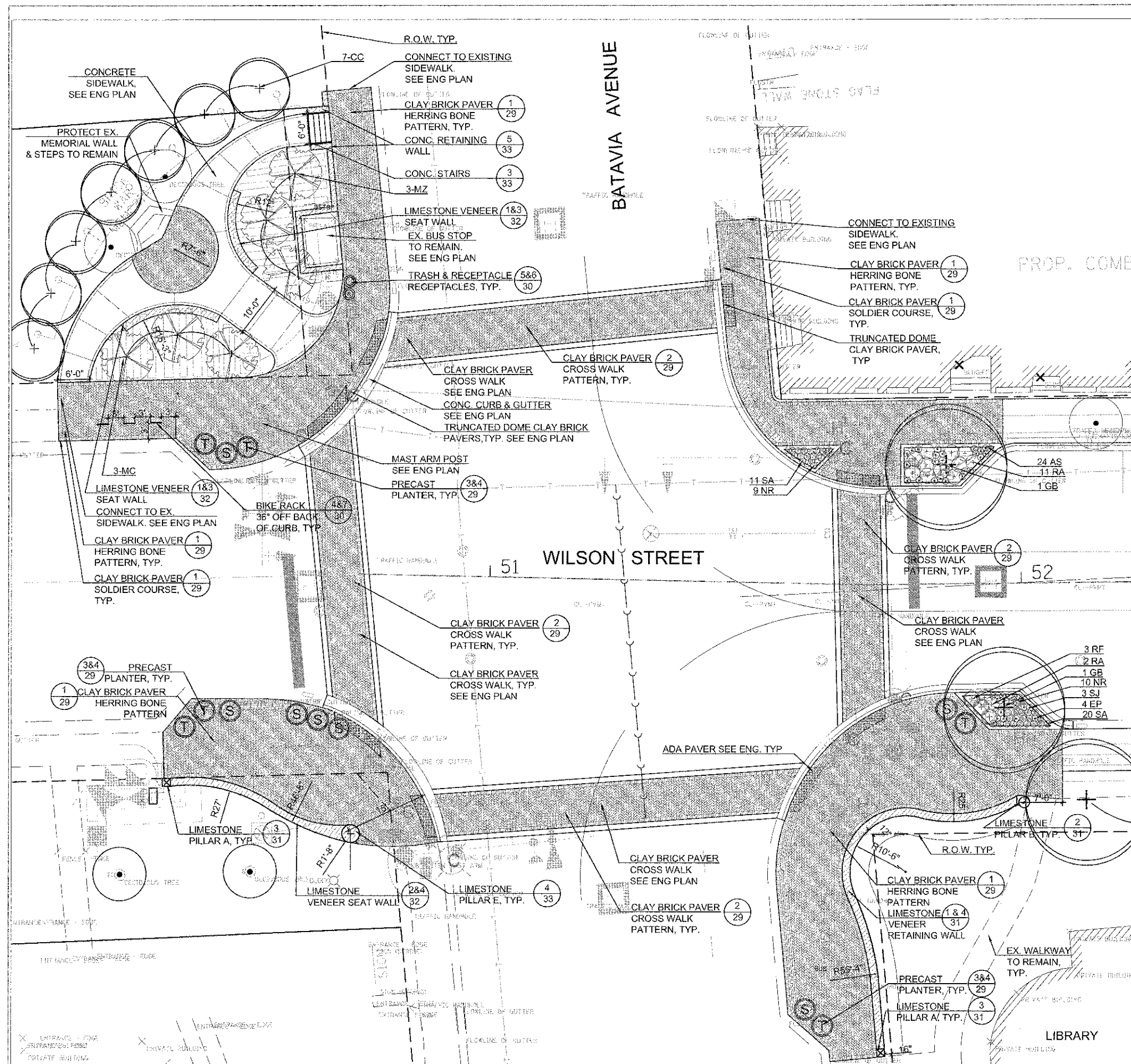


FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPE PLAN</b> WILSON STREET STA. 60+00 TO STA. 62+23.72	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN -- JC & SM	REVISED --			1441	12-00073-01-TL	KANE	88	24	
PLOT SCALE =		CHECKED -- JB	REVISED --			SCALE: SHEET OF SHEETS STA. 60+00 TO STA. 62+23.72		63763 CONTRACT NO.			
PLOT DATE =		DATE -- 10.18.2012	REVISED --			ILLINOIS FED. AID PROJECT					



# LEGEND

- PROPOSED SHADE TREE
- PROPOSED SHRUBS
- CONCRETE PAVEMENT (SEE ENG)
- CLAY BRICK PAVERS
- CLAY BRICK PAVER SOLDIER COURSE (SEE PLAN)
- TRUNCATED DOME CLAY BRICK PAVER
- BRICK PAVER CROSSWALK (SEE ENG)
- BACKED BENCHES
- 30" HEIGHT PRECAST PLANTERS
- 18" HEIGHT PRECAST PLANTERS
- LITTER RECEPTACLE
- RECYCLING LITTER RECEPTACLE
- BIKE RACKS



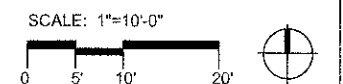
**1 ENLARGEMENT PLAN 1 (BATAVIA AVE. INTERSECTION)**  
SCALE: 1"=10'-0"

**WILSON & BATAVIA (NW CORNER) PLANT SCHEDULE**

Plant Code	Qty	Size	Botanical Name	Common Name	Form	Spacing	Comments
<b>Trees</b>							
CC	7	3"	<i>Carpinus caroliniana</i>	American hornbeam	B&B	See Plan	
<b>Ornamental Trees</b>							
MZ	6	3"	<i>Malus x zumi 'Crimcarrp'</i>	Zumi Calocarpa Crabapple	B&B	See Plan	SINGLE STEM

**WILSON STREET MASTER PLANT SCHEDULE**

Plant Code	Qty	Size	Botanical Name	Common Name	Form	Spacing	Comments
<b>Trees</b>							
CO	2	3"	<i>Celtis occidentalis 'Chicagoana'</i>	Chicago and Hackberry	B&B	See Plan	
GB	2	3"	<i>Ginkgo biloba</i>	Ginkgo	B&B	See Plan	Male only
GTI	4	3"	<i>Gleditsia triacanthos var. inermis 'Imperial'</i>	Imperial Honey Locust	B&B	See Plan	
GT	3	3"	<i>Gleditsia triacanthos var. inermis 'Shademaster'</i>	Shademaster Thornless Honey Locust	B&B	See Plan	
PA	5	3"	<i>Platanus x acerifolia 'Soodagood'</i>	Bloodgood London Planetree	B&B	See Plan	
QM	6	3"	<i>Quercus macrocarpa</i>	Bur Oak	B&B	See Plan	
RF	2	3"	<i>Robinia pseudoacacia 'Chicago Blues'</i>	Chicago Blues Black Locust	B&B	See Plan	Bugged propagation only
UT	2	3"	<i>Ulmus 'Morton Glassy'</i>	Triumph Elm	B&B	See Plan	
<b>Shrubs</b>							
RA	21	#5	<i>Rhus aromatica 'Gro-Low'</i>	Grow Low Sumac	CG	See Plan	
RF	14	#5	<i>Rosa rugosa 'Flower Carpet White'</i>	Flower Carpet White Rose	CG	See Plan	
<b>Perennials</b>							
AS	55	#1	<i>Allium 'Summer Beauty'</i>	Summer Beauty Allium	CG	15' O.C.	
CN	45	#1	<i>Calamintha nepota ssp. nepeta</i>	Lesser Calamintha	CG	15' O.C.	
CI	10	#1	<i>Callitriche invaricatala</i>	Purple Poppymallow	CG	15' O.C.	
EM	75	#1	<i>Echinacea purpurea 'Magnus'</i>	Magnus Coneflower	CG	15' O.C.	
EP	61	#1	<i>Echinacea 'Pico Bella'</i>	Pico Bella Coneflower	CG	15' O.C.	
HO	32	#1	<i>Heuchera 'Obsidian'</i>	Obsidian Coralbells	CG	15' O.C.	
LP	21	#1	<i>Liatris pycnostachya</i>	Prairie Blazing Star	CG	15' O.C.	
LS	21	#1	<i>Liatris spicata</i>	Spike Blazing Star	CG	15' O.C.	
NR	122	#1	<i>Nepeta racemosa 'Walker's Low'</i>	Walker's Low Catmint	CG	15' O.C.	
SJ	16	#1	<i>Sedum 'Jose Aubergine'</i>	Jose Aubergine Sedum	CG	15' O.C.	
<b>Grasses</b>							
PV	493	Quart	<i>Panicum virgatum 'Shenandoah'</i>	Shenandoah Red Switch Grass	CG	15' O.C.	
SA	356	Quart	<i>Sesleria autumnalis</i>	Autumn Moor Grass	CG	15' O.C.	



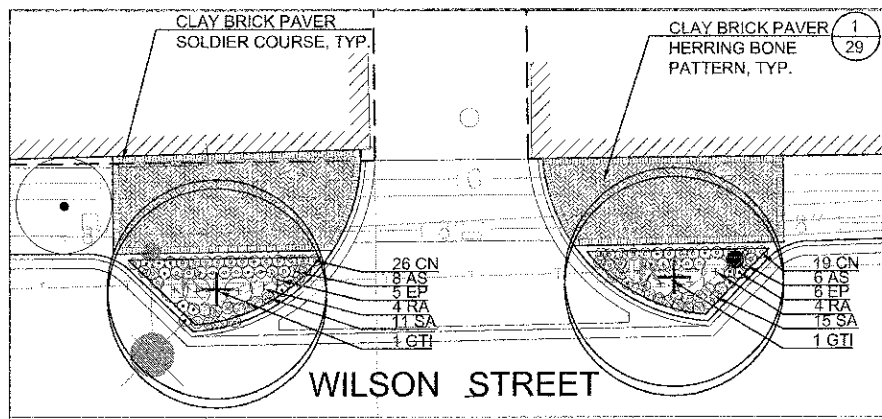
FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --
FILE#		DRAWN -- JC & SM	REVISED --
	PLOT SCALE =	CHECKED -- JB	REVISED --
	PLOT DATE =	DATE -- 10.18.2012	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

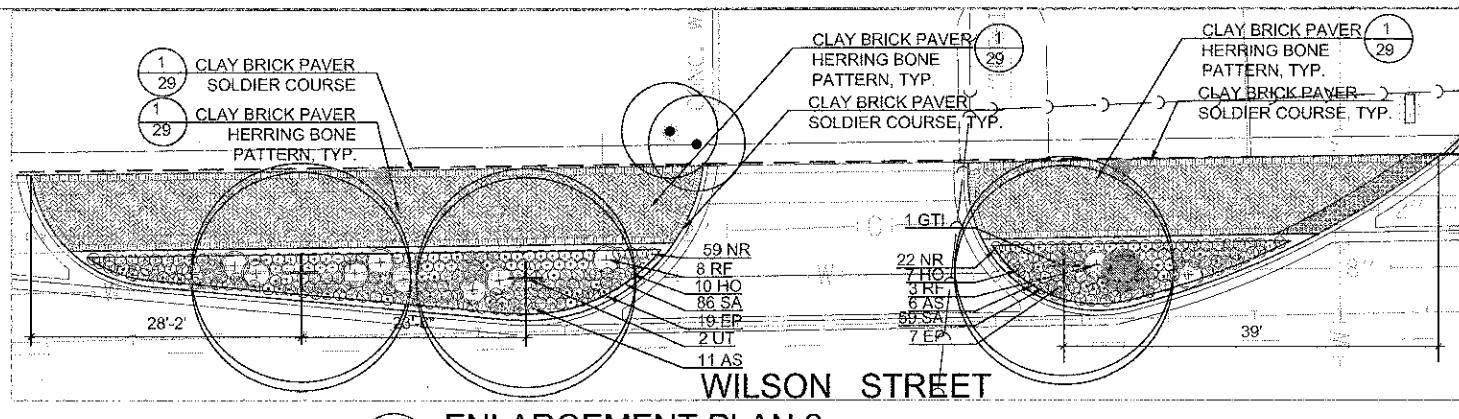
LANDSCAPE ENLARGEMENT PLAN  
WILSON STREET STA. 50+00 TO STA. 52+10

SCALE: SHOWN SHEET OF SHEETS STA. TO STA.

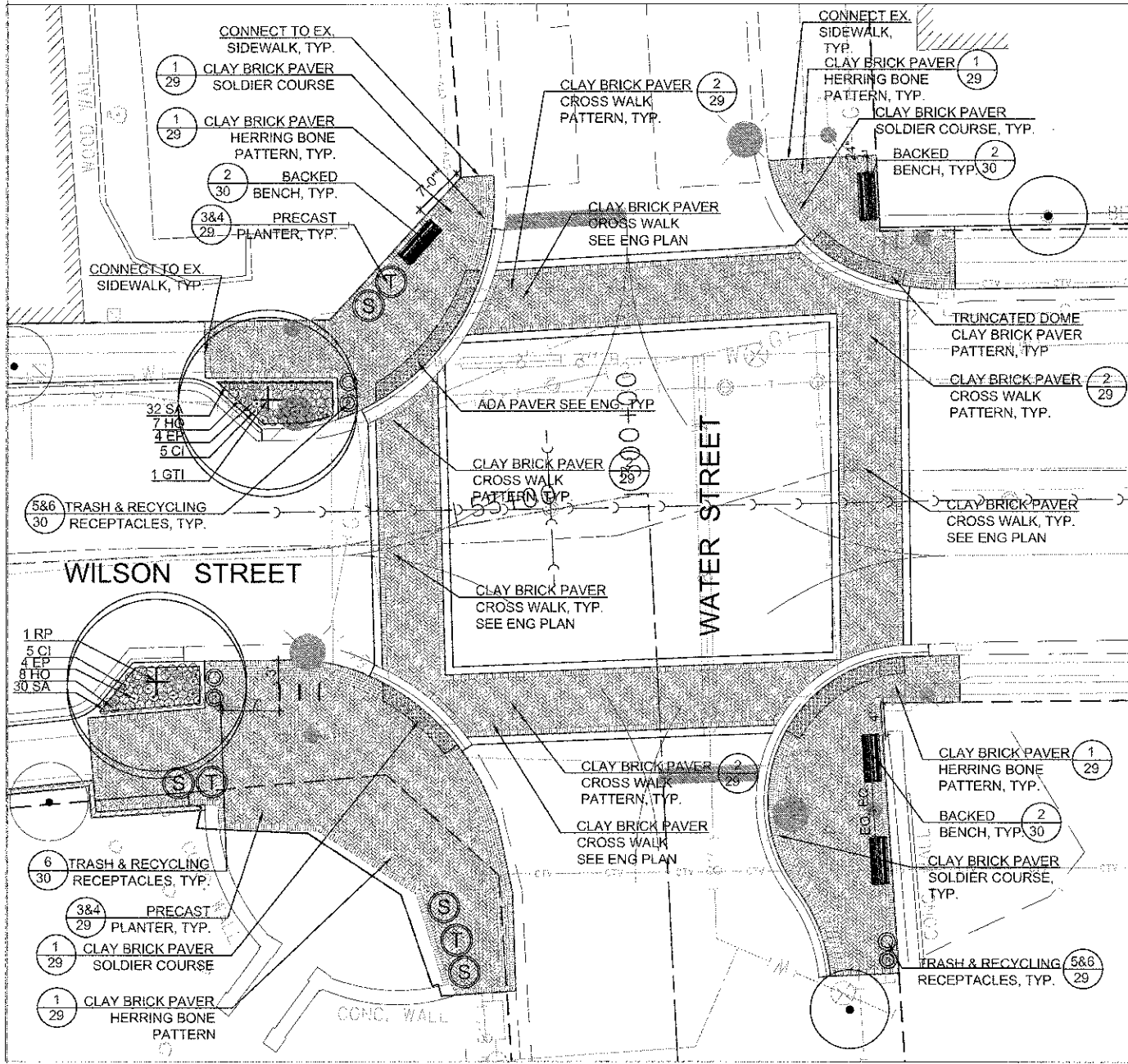
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	25
63763 CONTRACT NO.			ILLINOIS FED. AID PROJECT	



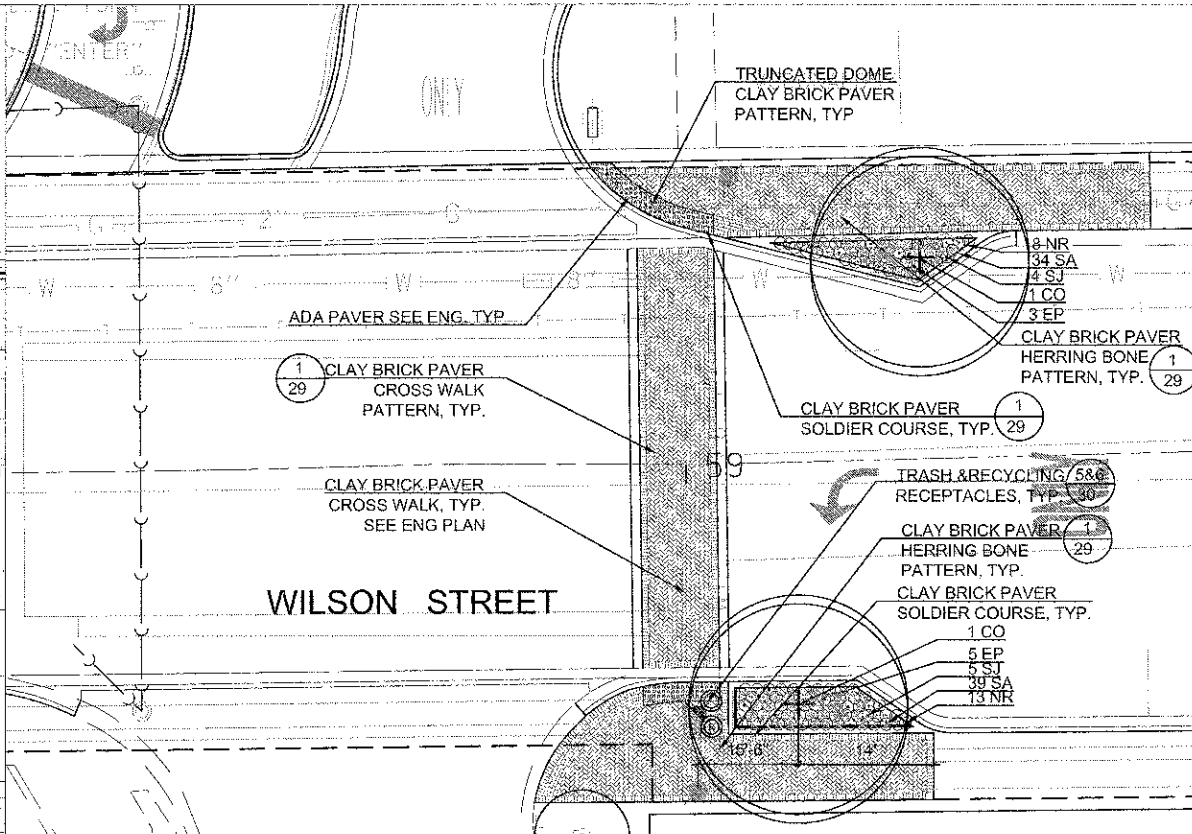
1 ENLARGEMENT PLAN 1  
SCALE: 1"=10'-0"



2 ENLARGEMENT PLAN 2  
SCALE: 1"=10'-0"



3 ENLARGEMENT PLAN 3  
SCALE: 1"=10'-0"



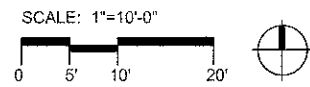
4 ENLARGEMENT PLAN 4  
SCALE: 1"=10'-0"

**LEGEND**

- PROPOSED SHADE TREE
- PROPOSED SHRUBS
- CONCRETE PAVEMENT (SEE ENG)
- CLAY BRICK PAVERS
- CLAY BRICK PAVER SOLDIER COURSE (SEE PLAN)
- TRUNCATED DOME CLAY BRICK PAVER
- BRICK PAVER CROSSWALK (SEE ENG)
- BACKED BENCHES
- 30" HEIGHT PRECAST PLANTERS
- 18" HEIGHT PRECAST PLANTERS
- LITTER RECEPTACLE
- RECYCLING LITTER RECEPTACLE
- BIKE RACKS

**WILSON STREET MASTER PLANT SCHEDULE**

Plant Code	Qty	Size	Botanical Name	Common Name	Form	Spacing	Comments
<b>Trees</b>							
CO	2	3"	<i>Cercis occidentalis</i> 'ChicagoLand'	ChicagoLand hackberry	5&B	See Plan	
GB	2	3"	<i>Ginkgo biloba</i>	Ginkgo	5&B	See Plan	Mature only
GTI	4	3"	<i>Glodtia triacanthos</i> var. <i>inermis</i> 'Imperial'	Imperial Honey Locust	5&B	See Plan	
GI	3	3"	<i>Greiltsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Thornless Honey Locust	5&B	See Plan	
PA	5	3"	<i>Platanus x acenifolia</i> 'Bloodgood'	Bloodgood London Planetree	5&B	See Plan	
QM	6	3"	<i>Quercus macrocarpa</i>	Bur Oak	5&B	See Plan	
RP	2	3"	<i>Robinia pseudoacacia</i> 'Chicago Blues'	Chicago Blues Black Locust	5&B	See Plan	
UT	2	3"	<i>Ulmus</i> 'Morton Glossy'	Morton Elm	5&B	See Plan	Propagation only
<b>Shrubs</b>							
RA	21	#5	<i>Rhus aromatica</i> 'Gra-Low'	Grow Low Sumac	CG	See Plan	
RF	14	#5	<i>Rosa rugosa</i> 'Flower Carpet White'	Flower Carpet White Rose	CG	See Plan	
<b>Perennials</b>							
AS	55	#1	<i>Allium</i> 'Summer Beauty'	Summer Beauty Allium	CG	15" O.C.	
CN	45	#1	<i>Calamintha nepeta</i> ssp. <i>nepeta</i>	Lesser Calamintha	CG	15" O.C.	
CI	10	#1	<i>Callitriche invarolata</i>	Purple Poppymallow	CG	15" O.C.	
EM	75	#1	<i>Echinacea purpurea</i> 'Wagner'	Magnus Coneflower	CG	15" O.C.	
EP	61	#1	<i>Echinacea</i> 'Pica Bella'	Pica Bella Coneflower	CG	15" O.C.	
HO	32	#1	<i>Heuchera</i> 'Obsidian'	Obsidian Coralbells	CG	15" O.C.	
LP	21	#1	<i>Liatris pycnostachya</i>	Prarie Blazing Star	CG	15" O.C.	
LS	21	#1	<i>Liatris spicata</i>	Spice Blazing Star	CG	15" O.C.	
NR	122	#1	<i>Nepeta racemosa</i> 'Walkers Low'	Walker's Low Catmint	CG	15" O.C.	
SJ	16	#1	<i>Sedum</i> 'Jose Aubergine'	Jose Aubergine Sedum	CG	15" O.C.	
<b>Grasses</b>							
PV	493	Quart	<i>Paricum virgatum</i> 'Shenandoah'	Shenandoah Red Switch Grass	CG	15" O.C.	
SA	356	Quart	<i>Setaria autumnalis</i>	Autumn Moor Grass	CG	15" O.C.	



FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --
\$FILE\$		DRAWN -- JC & SM	REVISED --
	PLOT SCALE =	CHECKED -- JB	REVISED --
	PLOT DATE =	DATE -- 10.18.2012	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

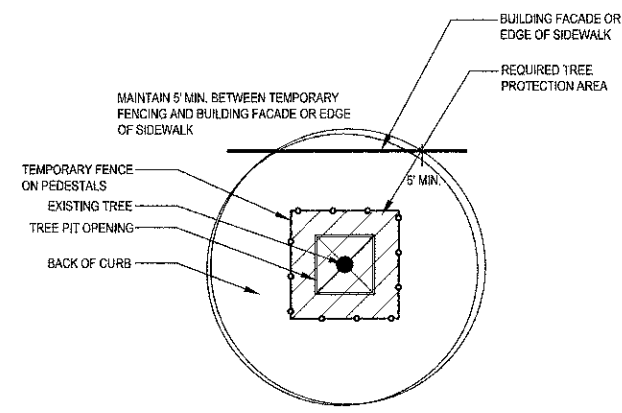
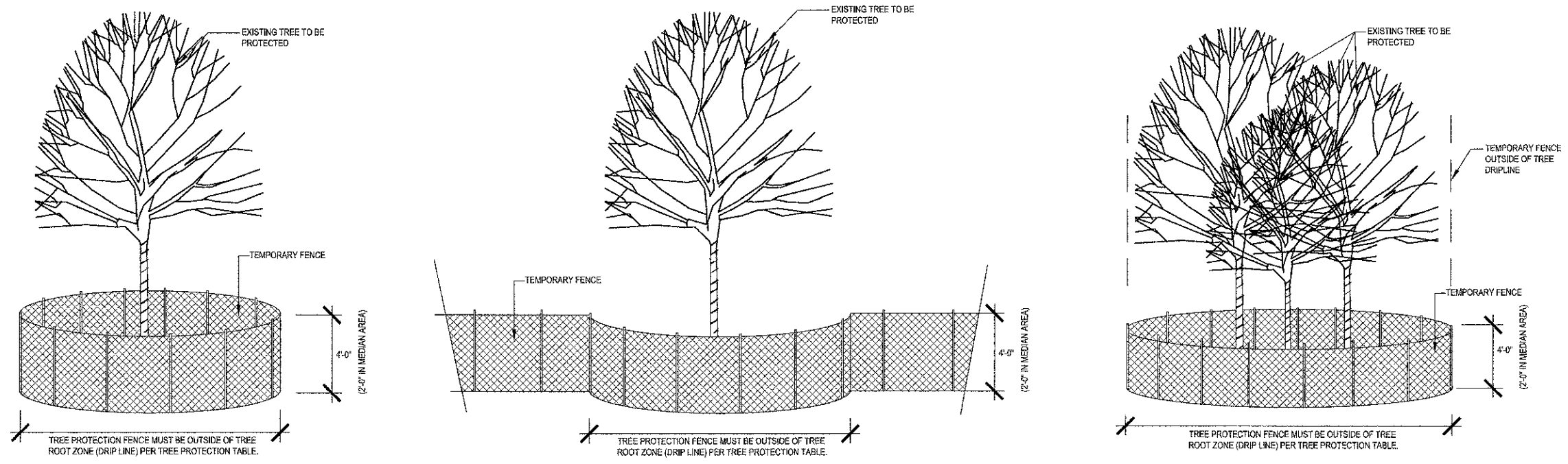
LANDSCAPE ENLARGEMENT PLAN  
WILSON STREET STA. 53+00 TO STA. 69+50.00

SCALE: SHOWN SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	26
63763 CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



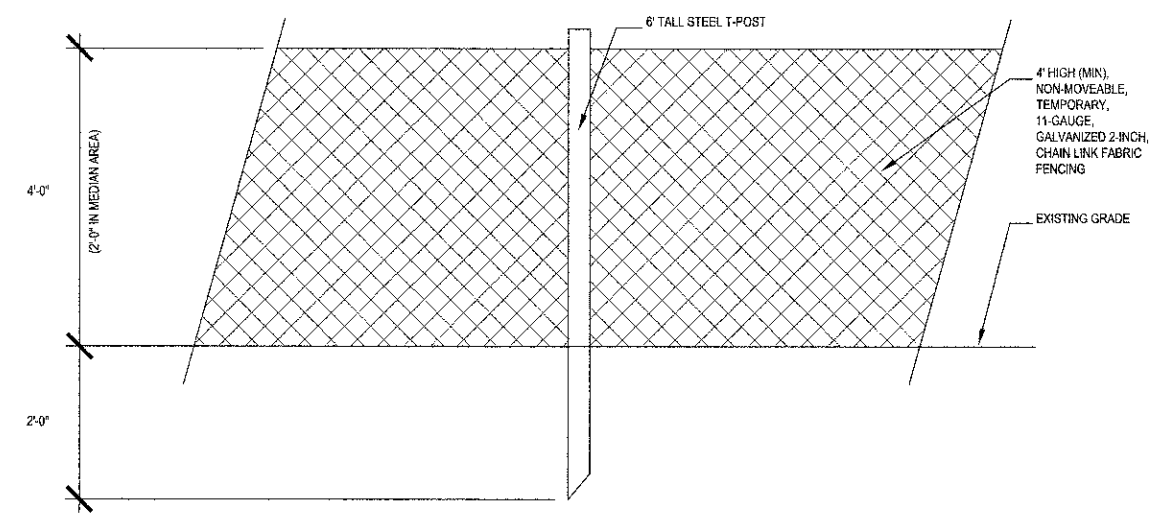




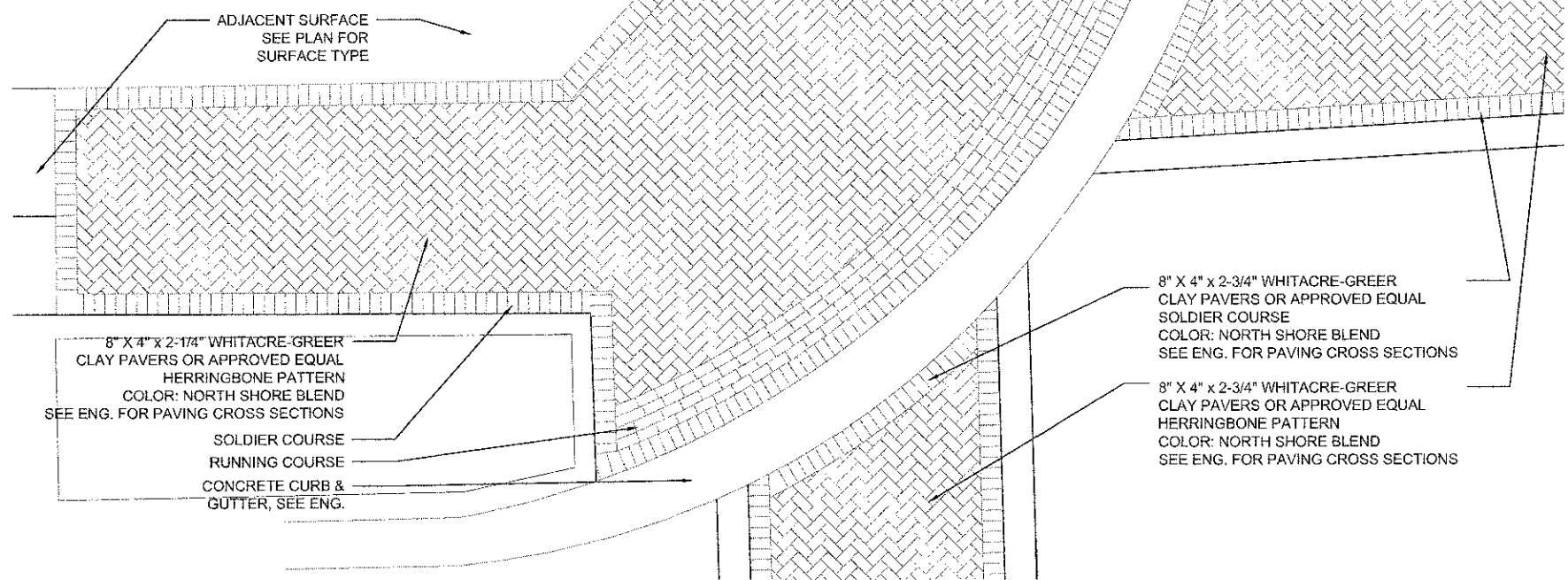
NOTE: CONTRACTOR, CITY AND LANDSCAPE ARCHITECT SHALL COORDINATE LIMITS AND METHODS OF ROOT PRUNING WHERE NECESSARY

**1 TREE PROTECTION**  
SCALE: NTS

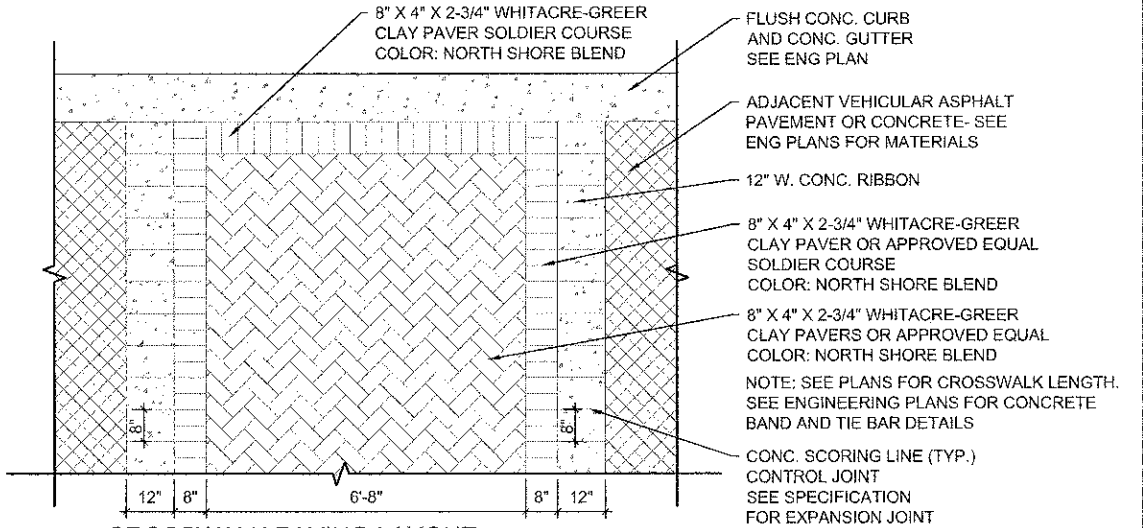
TREE PROTECTION	MEASURED TREE CALIPER	RADIUS OF TREE PROTECTION FENCE AT EDGE OF DRIP LINE
PROTECTED AREA	VARIABLES	NONE, TREE PROTECTED BY TEMPORARY FENCE AT PROTECTION LIMITS
TREE WITH DRIP LINE INTERSECTING THE TEMPORARY FENCE	0 CM - 20.3 CM (0-8")	MINIMUM 2.44M (8') OR AS APPROVED BY OWNERS REPRESENTATIVE
TREE WITH DRIP LINE INTERSECTING THE TEMPORARY FENCE	>20.3 CM - 63.5 CM (>8"-25")	0.3048M (1') RADIUS FENCE FOR EACH 2.54CM (1") CALIPER OR AS APPROVED BY OWNERS REP.
TREE WITH DRIP LINE INTERSECTING THE TEMPORARY FENCE	>63.5 CM (>25")	MINIMUM 2.44 (8') OR AS APPROVED BY OWNER'S REPRESENTATIVE
TREE WITH DRIP LINE INTERSECTING THE TEMPORARY FENCE, ROOTPRUNED	0 CM - 20.3 CM (0-8")	MINIMUM 2.44M (8') OR AS APPROVED BY OWNER'S REPRESENTATIVE
TREE WITH DRIP LINE INTERSECTING THE TEMPORARY FENCE, ROOTPRUNED	>20.3 CM - 63.5 CM (>8"-25")	0.3048M (1') RADIUS FENCE FOR EACH 2.54CM (1") CALIPER OR AS APPROVED BY OWNER'S REP.
TREE WITH DRIP LINE INTERSECTING THE TEMPORARY FENCE, ROOTPRUNED	>63.5 CM (>25")	MINIMUM 2.44 (8') OR AS APPROVED BY OWNER'S REPRESENTATIVE



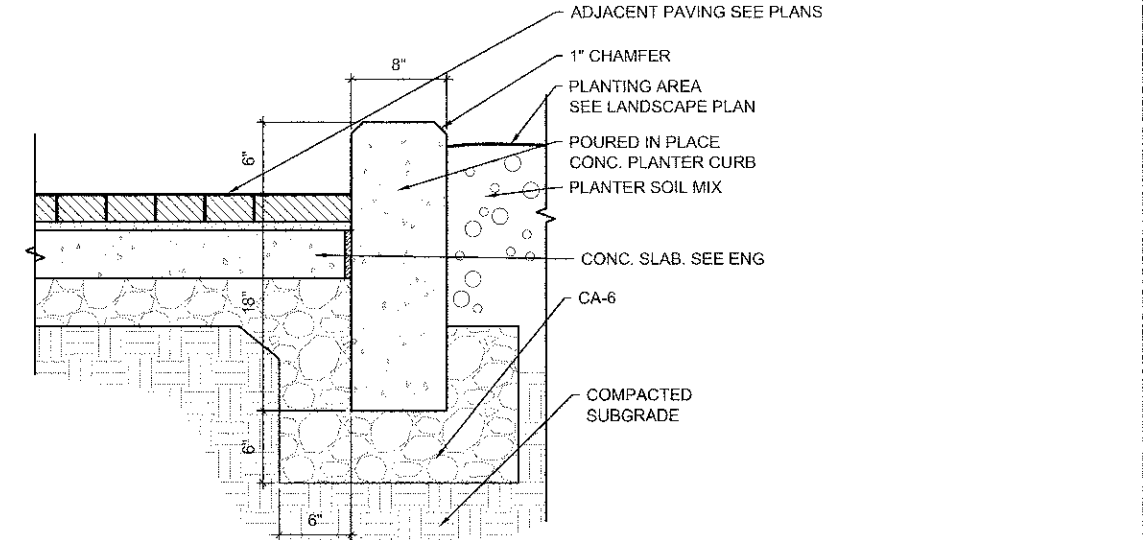




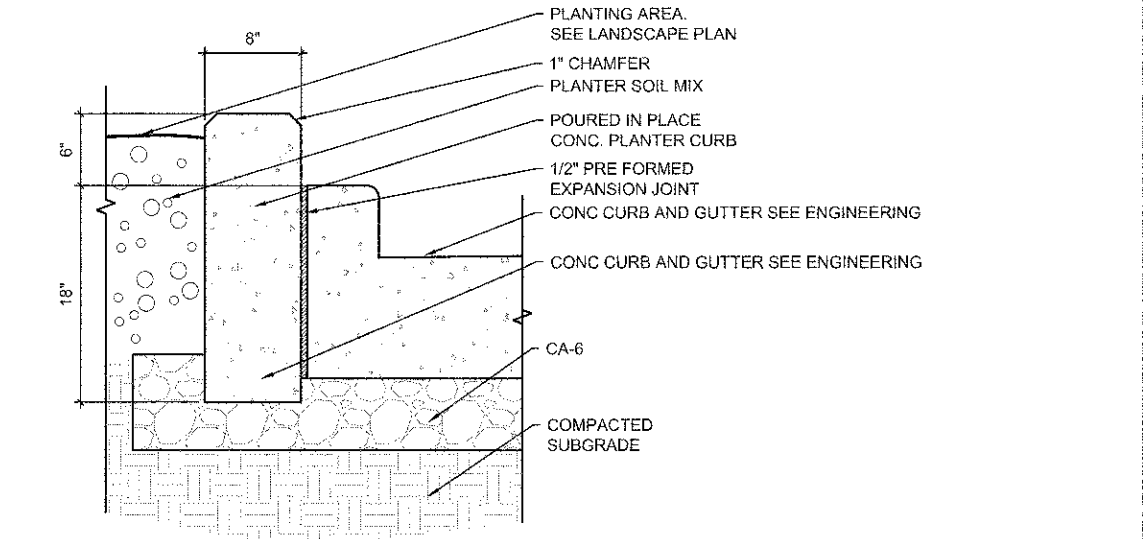
1 TYPICAL BRICK PAVING PATTERN LAYOUT AT SIDEWALK CORNERS  
SCALE= 3/8"=1'-0"



2 CROSSWALK PAVING LAYOUT  
SCALE= 1/2"=1'-0"



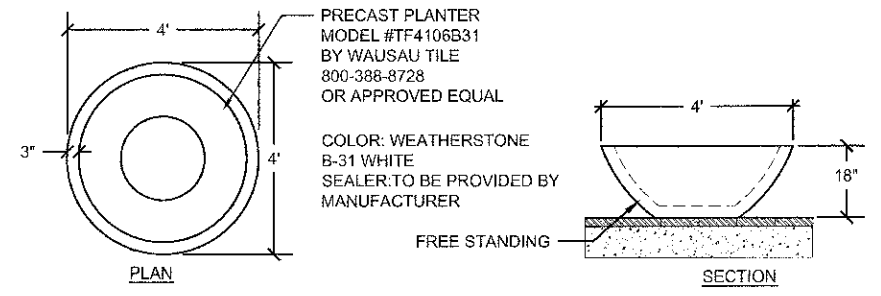
7 PLANTER CURB ALONG WALKWAY SECTION  
SCALE= 1-1/2"=1'-0"



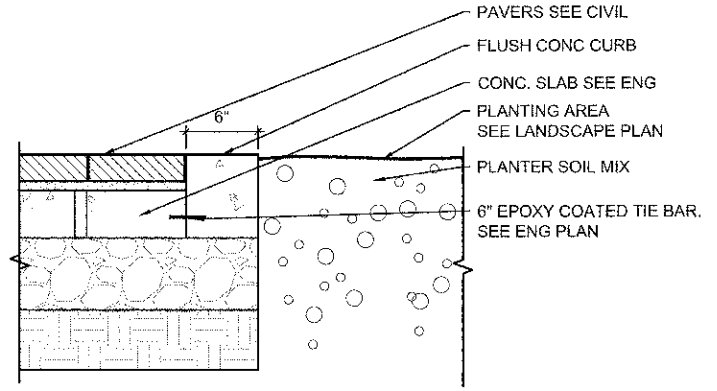
7 PLANTER CURB ALONG STREET SECTION  
SCALE= 1-1/2"=1'-0"



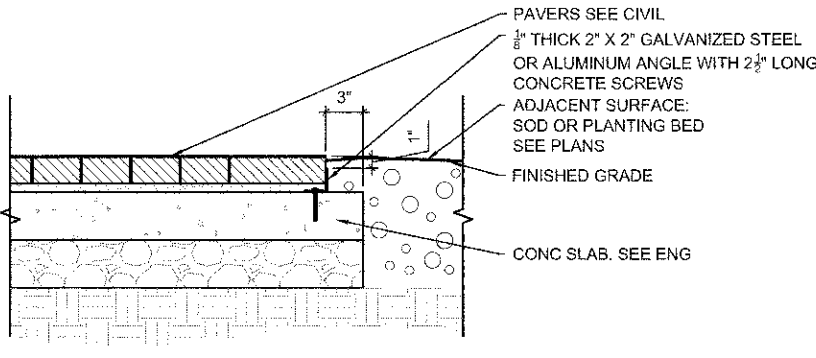
3 30" HT PRECAST CONC. PLANTER (QTY: 9)  
SCALE= 1/2"=1'-0"



4 18" HT PRECAST CONC. PLANTER (QTY: 22)  
SCALE= 1/2"=1'-0"

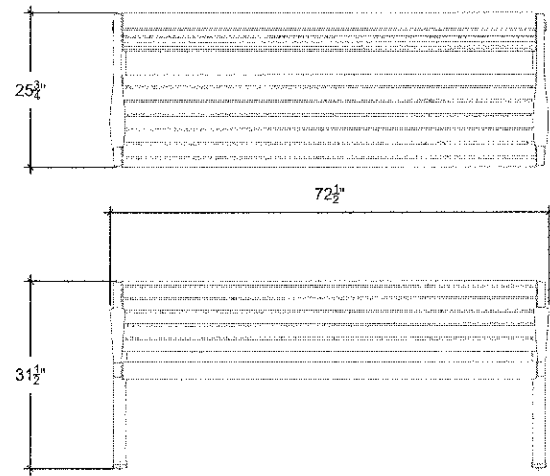


5 PAVER EDGE AT CURVED BENCH SECTION  
SCALE= 1-1/2"=1'-0"



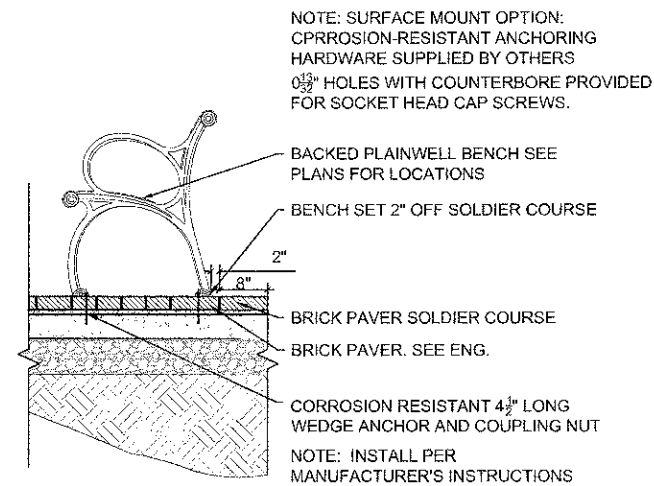
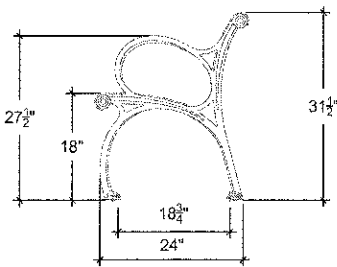
6 PAVER EDGE SECTION  
SCALE= 1-1/2"=1'-0"

- NOTES:
- 6" TYPICAL, 4" MINIMUM CLEARANCE BETWEEN PRECAST PLANTERS AND ALL OTHER ABOVE GROUND ELEMENTS (PARKING METERS, LIGHT POLES, SIGNS, ETC)
  - 1.5' MINIMUM CLEARANCE BETWEEN PRECAST PLANTERS AND BACK OF CURB
  - 4' MINIMUM BETWEEN PRECAST PLANTERS AND SIDEWALK FAR EDGE (AT ROW)
  - PRECAST PLANTERS MUST NOT COVER PRIVATE OR PUBLIC SERVICE VAULTS, LIDS, VALVES, ETS
  - PRECAST PLANTERS TO BE LOCATED OUTSIDE OF SIGHT TRIANGLE BOUNDARY
  - PRECAST PLANTERS TO BE LOCATED AS DIRECTED BY LANDSCAPE ARCHITECT.



MODEL: PLAINWELL BACKED BENCH  
 MANUFACTURER: LANDSCAPE FORMS  
 SURFACE MOUNT  
 IPE WOOD AND BRONZE POWDER  
 COATED ALUMINUM

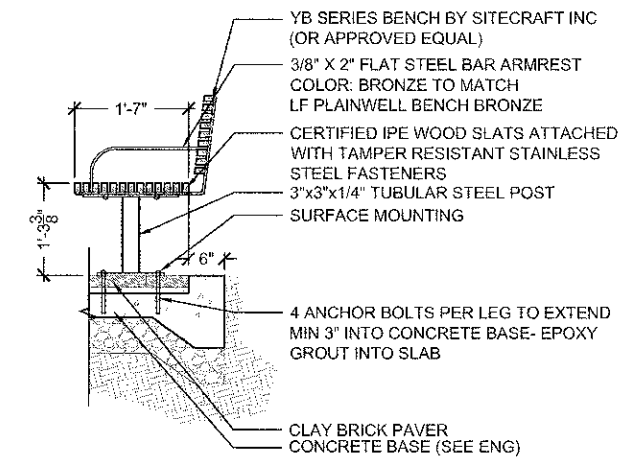
NOTE: SURFACE MOUNT OPTION:  
 CORROSION-RESISTANT ANCHORING  
 HARDWARE SUPPLIED BY OTHERS  
 3/8" HOLES WITH COUNTERBORE PROVIDED  
 FOR SOCKET HEAD CAP SCREWS.



NOTE: SURFACE MOUNT OPTION:  
 CORROSION-RESISTANT ANCHORING  
 HARDWARE SUPPLIED BY OTHERS  
 3/8" HOLES WITH COUNTERBORE PROVIDED  
 FOR SOCKET HEAD CAP SCREWS.

BACKED PLAINWELL BENCH SEE  
 PLANS FOR LOCATIONS  
 BENCH SET 2" OFF SOLDIER COURSE  
 2"  
 8"  
 BRICK PAVER SOLDIER COURSE  
 BRICK PAVER. SEE ENG.  
 CORROSION RESISTANT 4 1/2" LONG  
 WEDGE ANCHOR AND COUPLING NUT  
 NOTE: INSTALL PER  
 MANUFACTURER'S INSTRUCTIONS

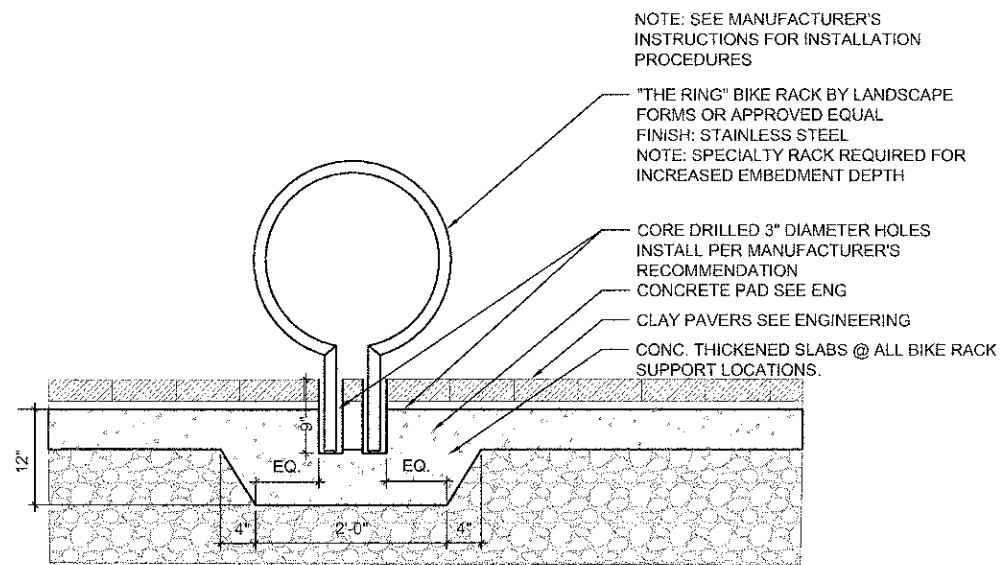
2 BENCH SURFACE MOUNT ON PAVERS  
 SCALE= 3/4"=1'-0"



NOTE: ALL METAL TO BE HOT-DIPPED  
 GALVANIZED AND POWDER COATED  
 BRONZE COLOR FINISH

3 CURVED BENCH WITH BACKREST (QTY: 1) SECTION  
 SCALE= 3/4"=1'-0"

1 BACKED BENCH (QTY: 8)  
 SCALE= 3/4"=1'-0"

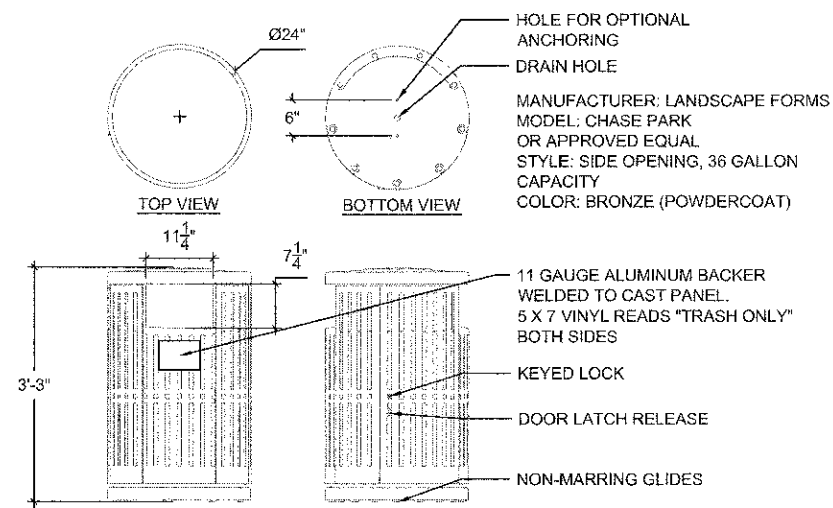


NOTE: SEE MANUFACTURER'S  
 INSTRUCTIONS FOR INSTALLATION  
 PROCEDURES

"THE RING" BIKE RACK BY LANDSCAPE  
 FORMS OR APPROVED EQUAL  
 FINISH: STAINLESS STEEL  
 NOTE: SPECIALTY RACK REQUIRED FOR  
 INCREASED EMBEDMENT DEPTH

CORE DRILLED 3" DIAMETER HOLES  
 INSTALL PER MANUFACTURER'S  
 RECOMMENDATION  
 CONCRETE PAD SEE ENG  
 CLAY PAVERS SEE ENGINEERING  
 CONC. THICKENED SLABS @ ALL BIKE RACK  
 SUPPORT LOCATIONS.

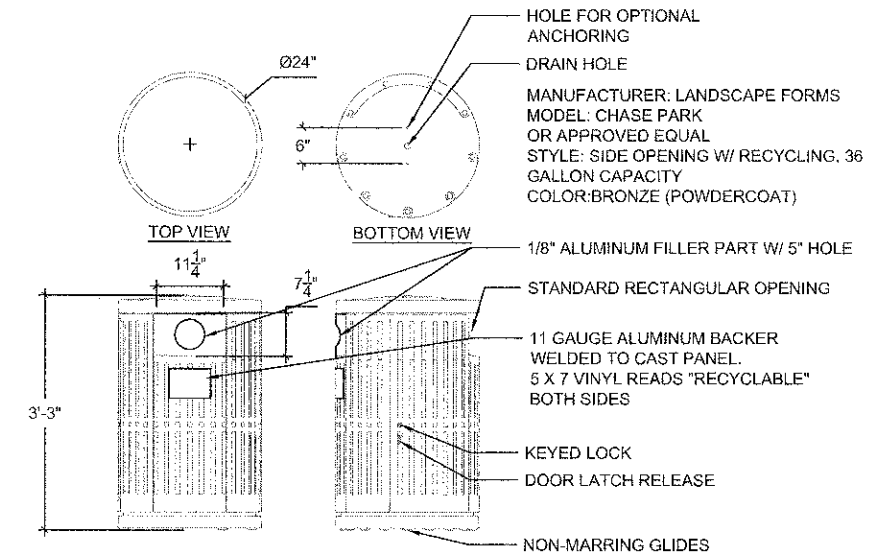
4 BIKE RACK (QTY: 9) SECTION  
 SCALE= 1"=1'-0"



HOLE FOR OPTIONAL  
 ANCHORING  
 DRAIN HOLE  
 MANUFACTURER: LANDSCAPE FORMS  
 MODEL: CHASE PARK  
 OR APPROVED EQUAL  
 STYLE: SIDE OPENING, 36 GALLON  
 CAPACITY  
 COLOR: BRONZE (POWDERCOAT)

NOTES:  
 1. INSTALLER IS RESPONSIBLE FOR ANCHORING HARDWARE SUITABLE  
 FOR SITE CONDITIONS. CORROSION RESISTANT GLIDERS ARE  
 RECOMMENDED. THE RECEPTACLE SHOULD BE SURFACE MOUNTED  
 WITH NYLON GLIDES IN PLACE  
 2. INSTALL ACCORDING TO THE ANCHOR MANUFACTURER'S  
 INSTRUCTIONS

5 TRASH RECEPTACLE (QTY: 6) - SURFACE MOUNT  
 NTS

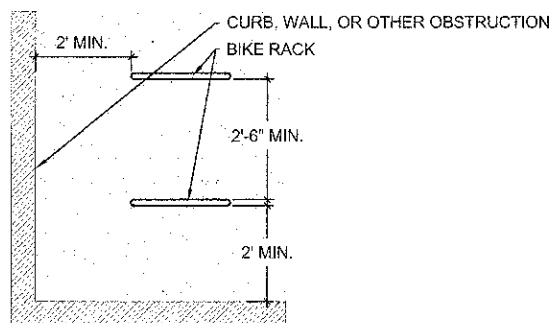


HOLE FOR OPTIONAL  
 ANCHORING  
 DRAIN HOLE  
 MANUFACTURER: LANDSCAPE FORMS  
 MODEL: CHASE PARK  
 OR APPROVED EQUAL  
 STYLE: SIDE OPENING W/ RECYCLING, 36  
 GALLON CAPACITY  
 COLOR: BRONZE (POWDERCOAT)

11 GAUGE ALUMINUM BACKER  
 WELDED TO CAST PANEL.  
 5 X 7 VINYL READS "TRASH ONLY"  
 BOTH SIDES  
 KEYED LOCK  
 DOOR LATCH RELEASE  
 NON-MARRING GLIDES  
 1/8" ALUMINUM FILLER PART W/ 5" HOLE  
 STANDARD RECTANGULAR OPENING  
 11 GAUGE ALUMINUM BACKER  
 WELDED TO CAST PANEL.  
 5 X 7 VINYL READS "RECYCLABLE"  
 BOTH SIDES  
 KEYED LOCK  
 DOOR LATCH RELEASE  
 NON-MARRING GLIDES

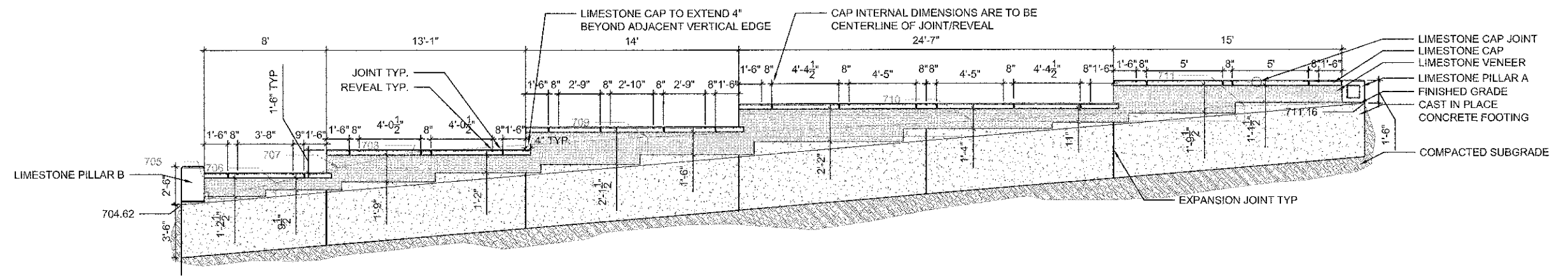
NOTES:  
 1. INSTALLER IS RESPONSIBLE FOR ANCHORING HARDWARE SUITABLE  
 FOR SITE CONDITIONS. CORROSION RESISTANT GLIDERS ARE  
 RECOMMENDED. THE RECEPTACLE SHOULD BE SURFACE MOUNTED  
 WITH NYLON GLIDES IN PLACE  
 2. INSTALL ACCORDING TO THE ANCHOR MANUFACTURER'S  
 INSTRUCTIONS

6 RECYCLING RECEPTACLE (QTY: 6) - SURFACE MOUNT  
 NTS

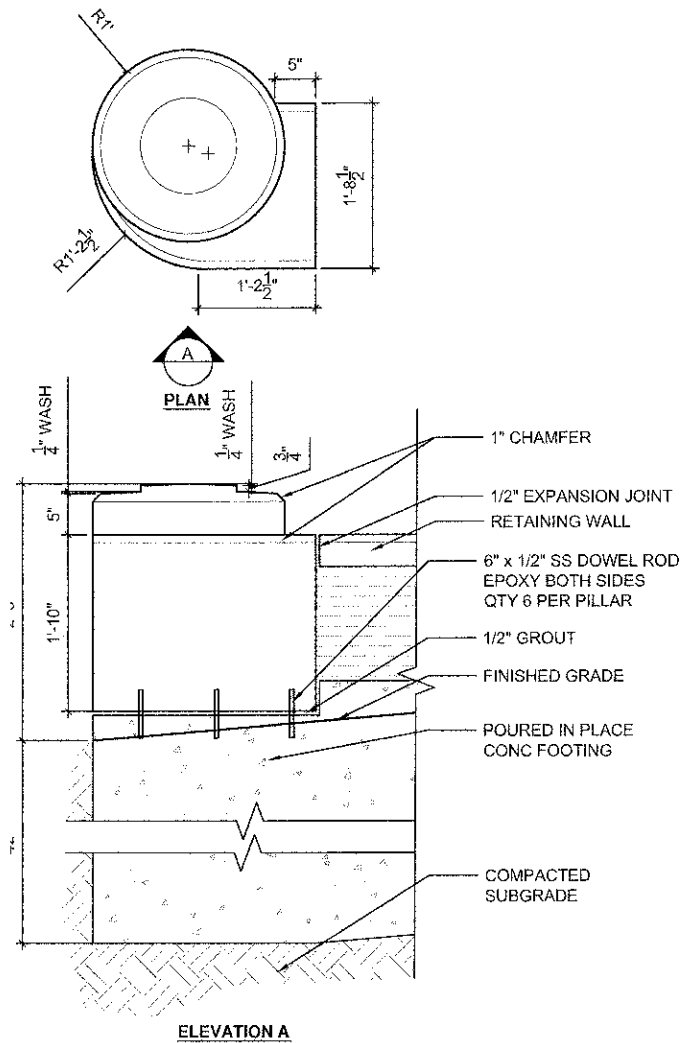


7 BIKE RACKS LAYOUT PLAN VIEW  
 SCALE= 1/2"=1'-0"

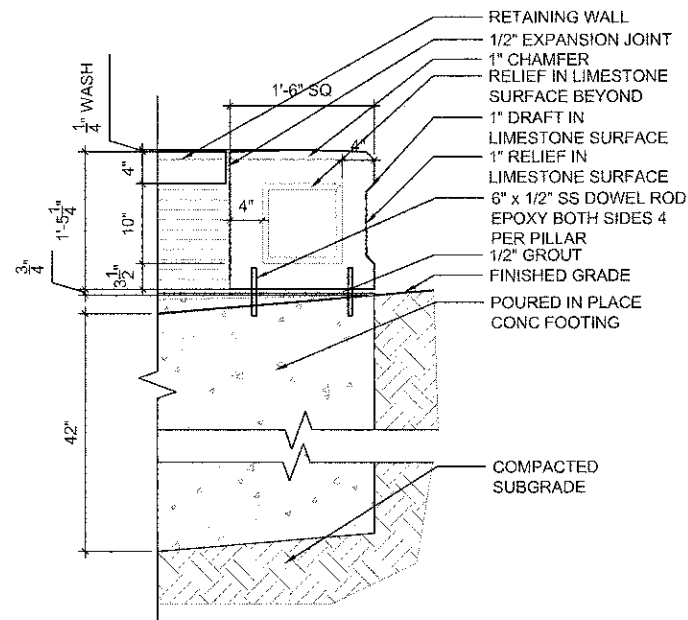
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\$FILEL\$		DRAWN -- JC & SM	REVISED --		WILSON STREET						63763	CONTRACT NO.	
	PLOT SCALE =	CHECKED -- JB	REVISED --		SCALE: SHOWN	SHEET	OF	SHEETS	STA.	TO	STA.		
	PLOT DATE =	DATE -- 10.18.2012	REVISED --										ILLINOIS FED. AID PROJECT



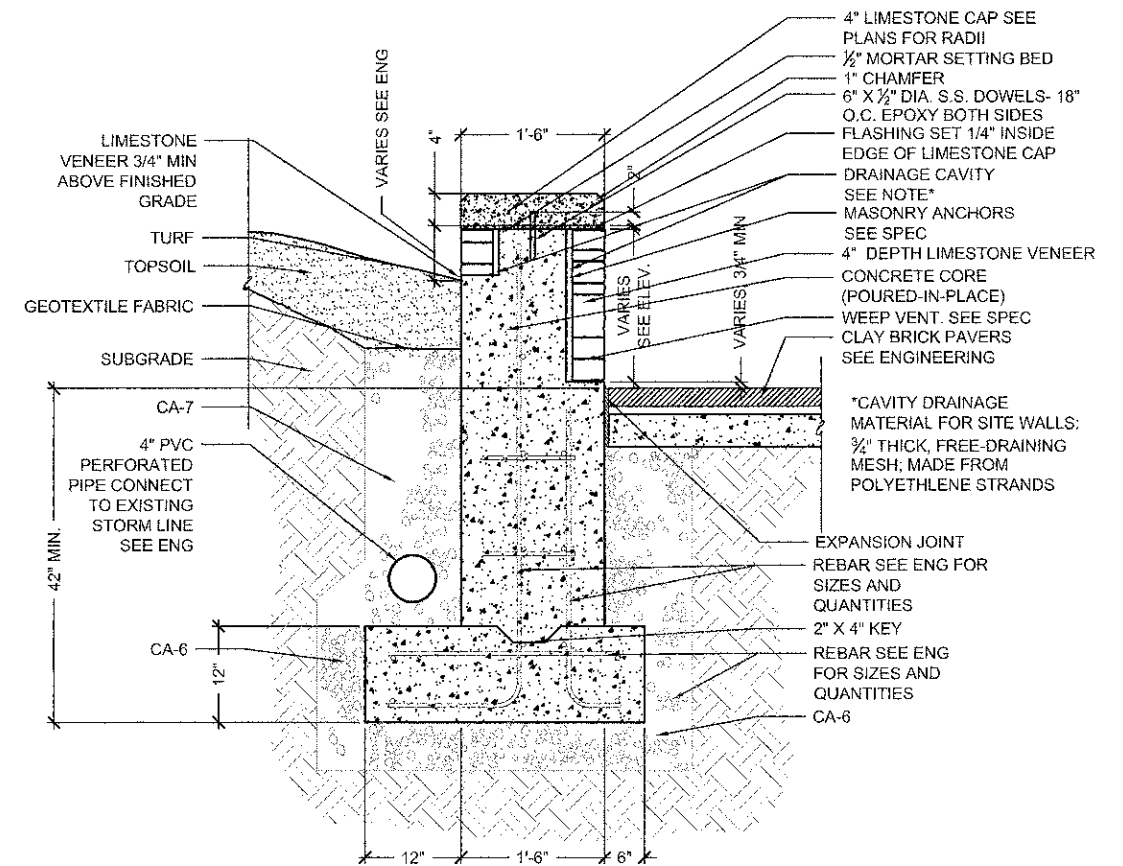
1 LIMESTONE VENEER SEAT WALL ELEVATION  
SCALE= 1/4"=1'-0"



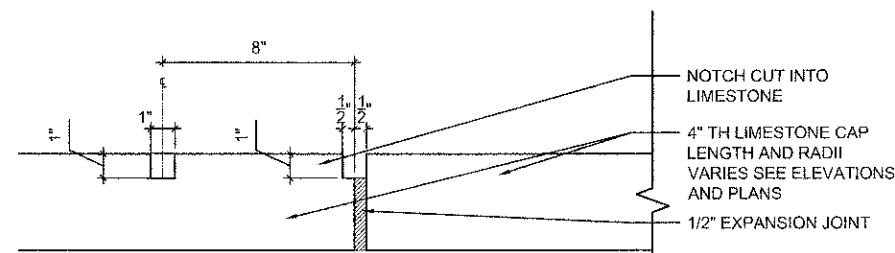
2 LIMESTONE PILLAR B SECTION  
SCALE= 1"=1'-0"



3 LIMESTONE PILLAR A SECTION  
SCALE= 1"=1'-0"

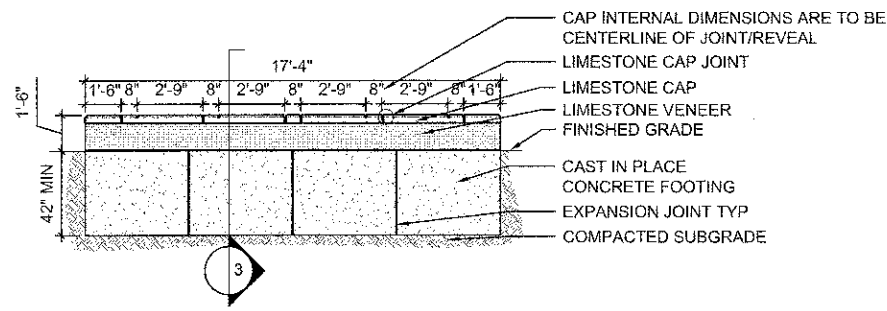


4 STONE RETAINING WALL SECTION  
SCALE= 1"=1'-0"

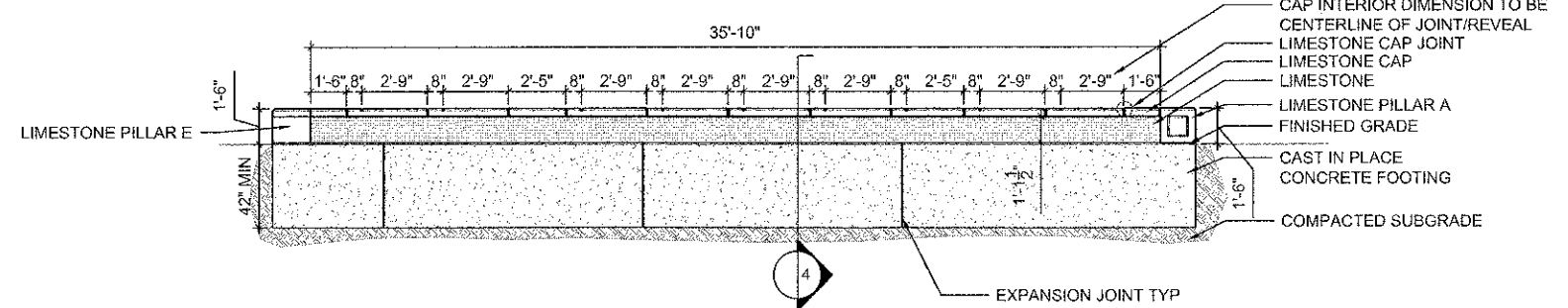


5 LIMESTONE CAP REVEAL AND JOINT TYP  
SCALE= 1"=1'-0"

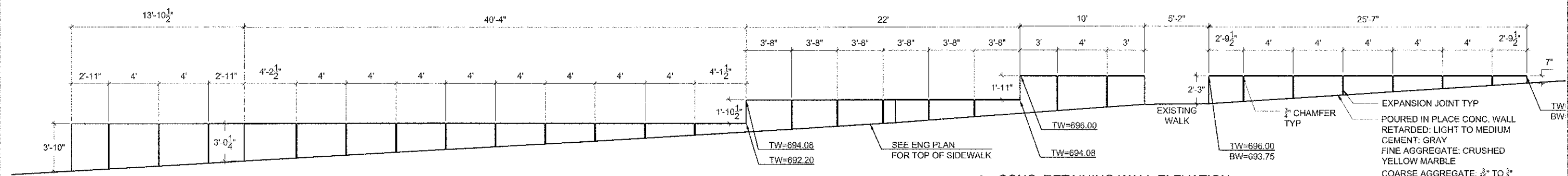
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PLOT DATE =		DATE -- 10.18.2012	REVISED --		ILLINOIS FED. AID PROJECT							



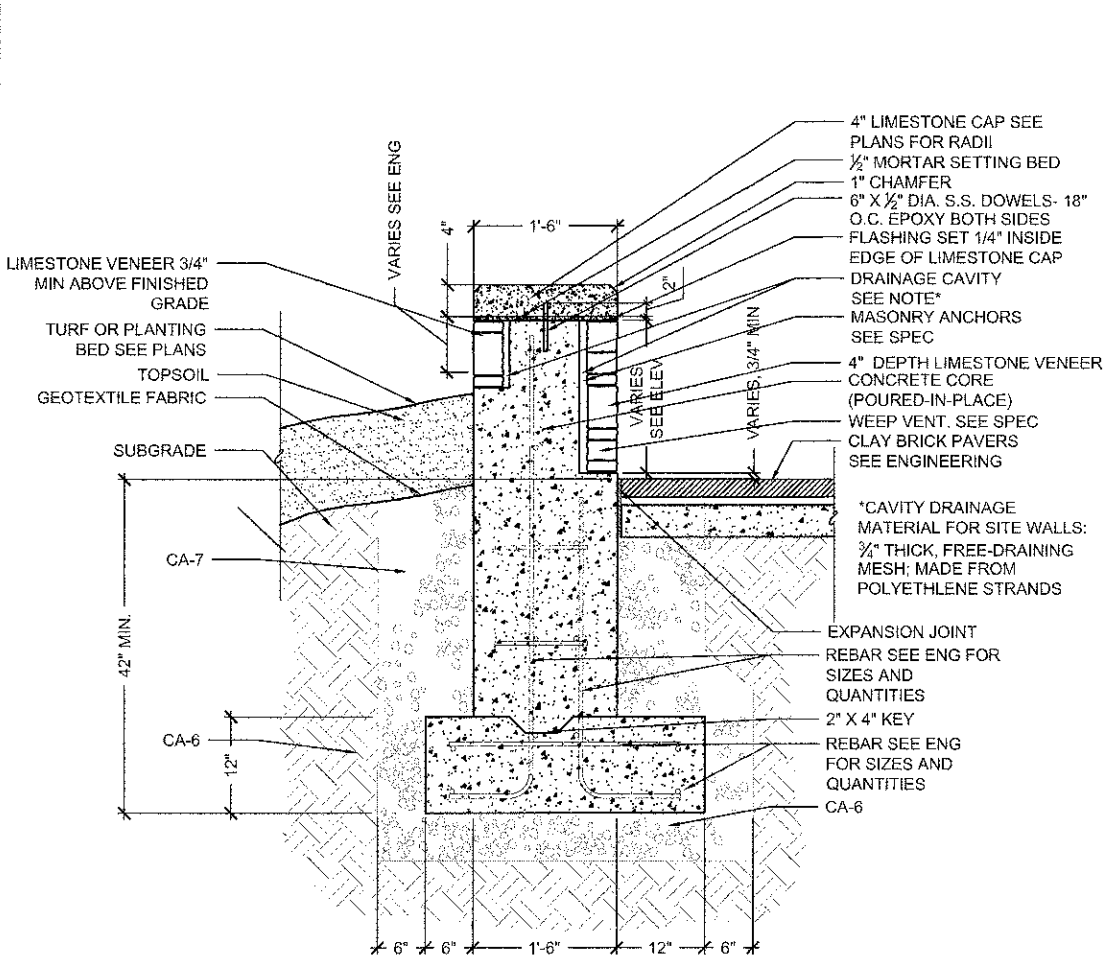
1 LIMESTONE VENEER SEAT WALL ELEVATION  
SCALE= 1/4"=1'-0"



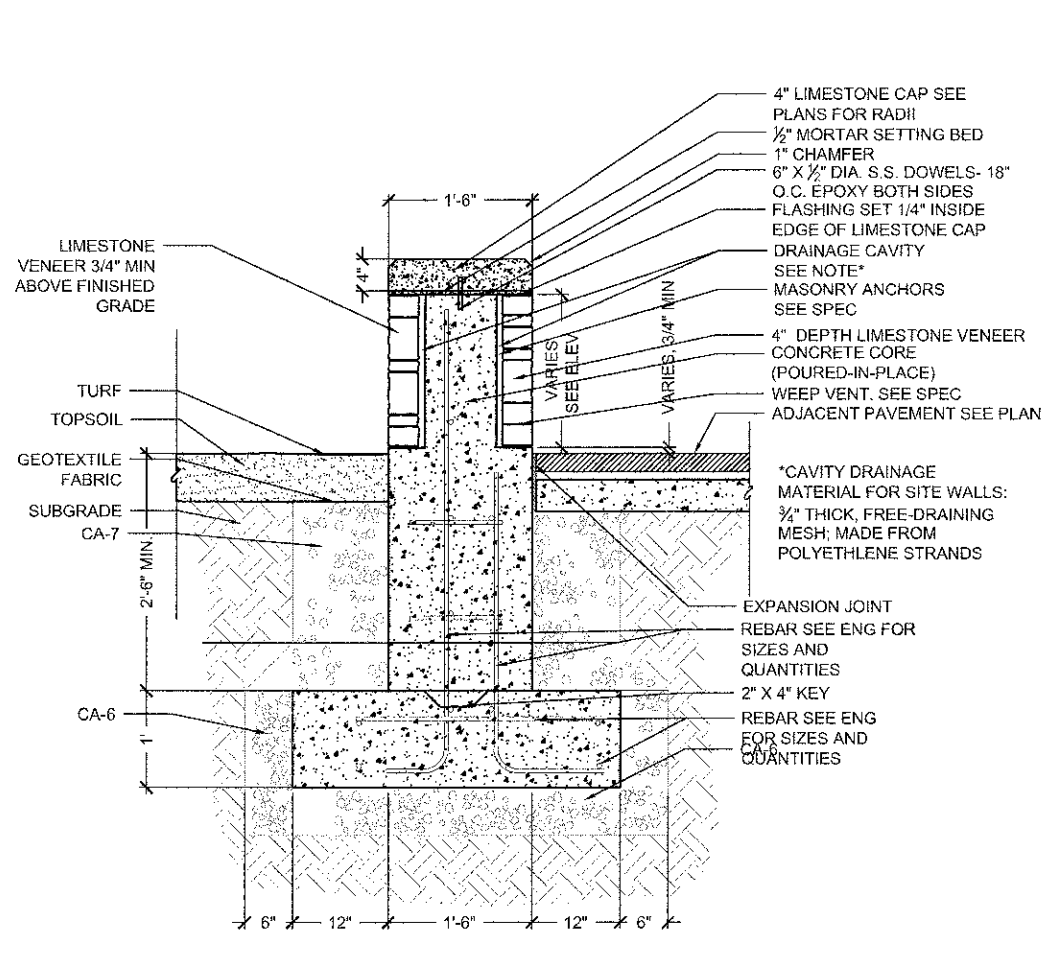
2 LIMESTONE VENEER SEAT WALL ELEVATION  
SCALE= 1/4"=1'-0"



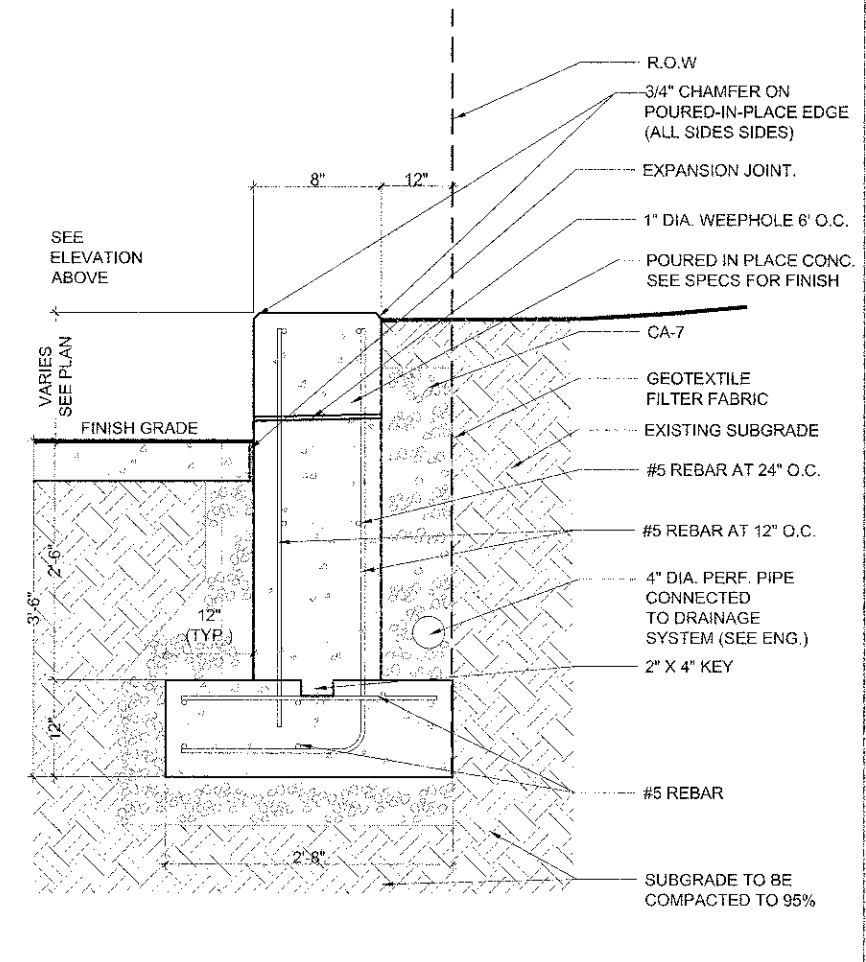
6 CONC. RETAINING WALL ELEVATION  
SCALE= 1"=1'-0"



3 LIMESTONE VENEER SEAT WALL SECTION  
SCALE= 1"=1'-0"



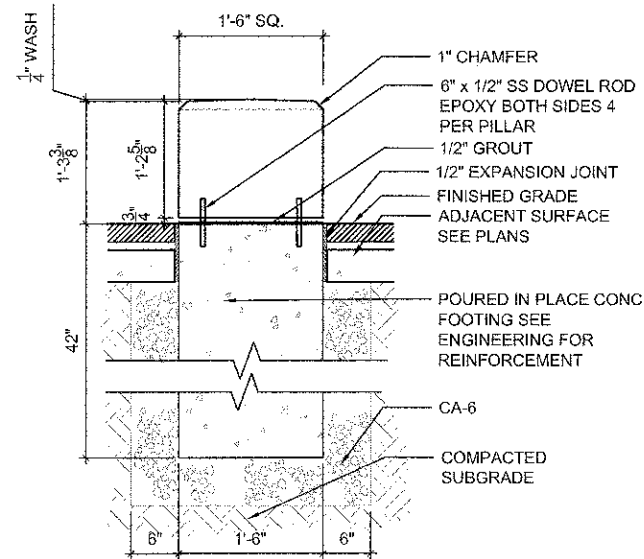
4 LIMESTONE VENEER SEAT WALL SECTION  
SCALE= 1"=1'-0"



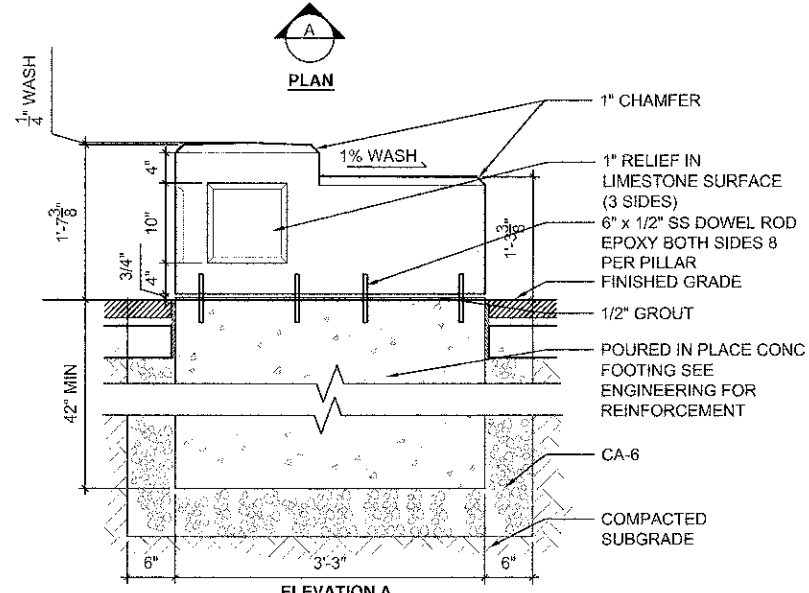
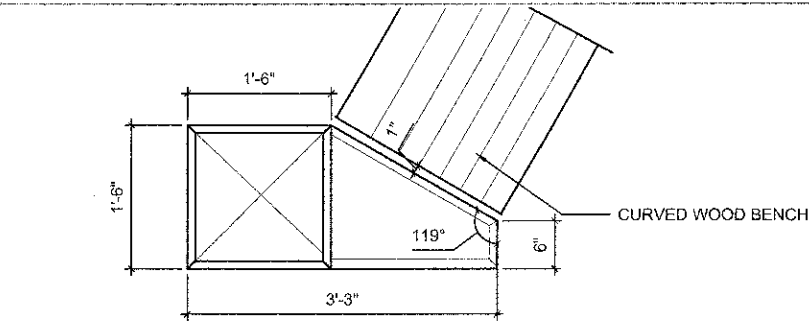
5 CONC. RETAINING WALL SECTION  
SCALE= 1"=1'-0"

FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SITE DETAILS WILSON STREET</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE =		DATE -- 10.18.2012	REVISED --									

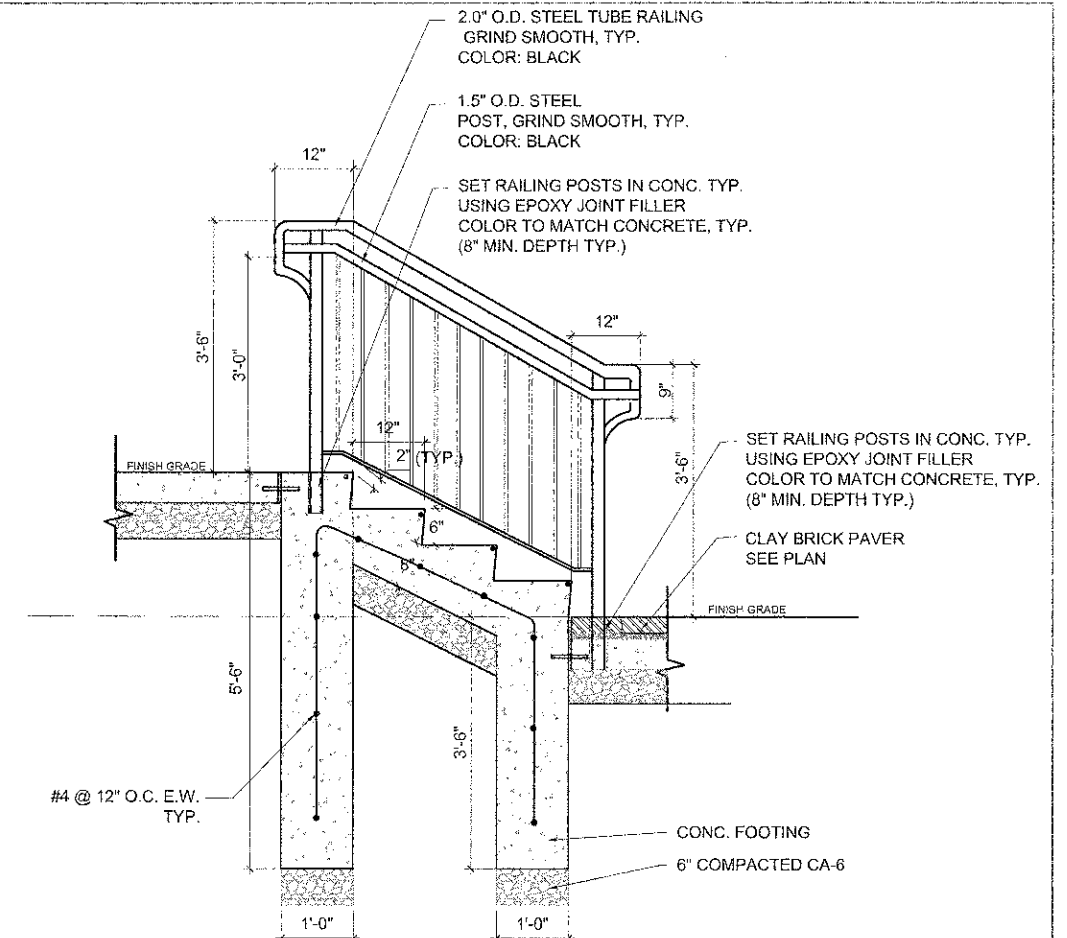




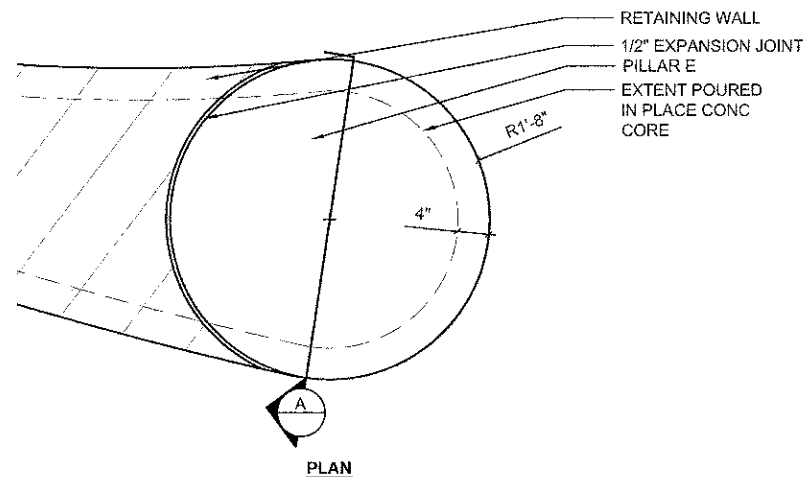
1 LIMESTONE PILLAR C SECTION  
SCALE= 1"=1'-0"



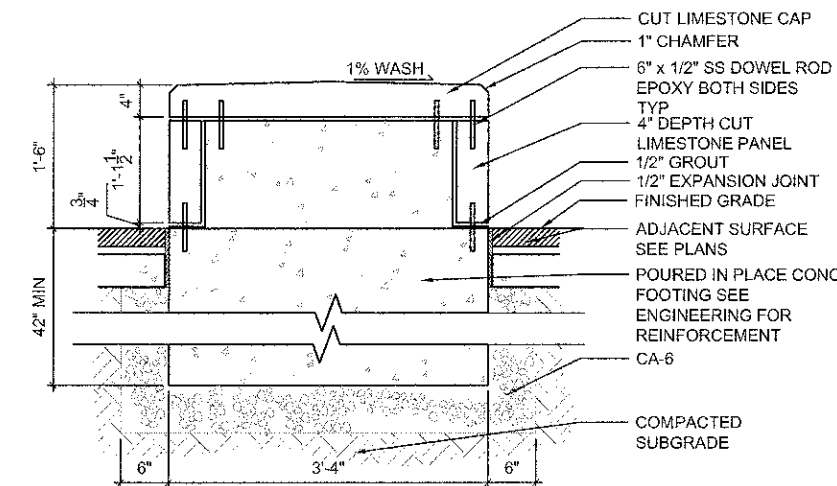
2 LIMESTONE PILLAR D  
SCALE= 1"=1'-0"



3 CONCRETE STAIRS  
SCALE= 3/4"=1'-0"

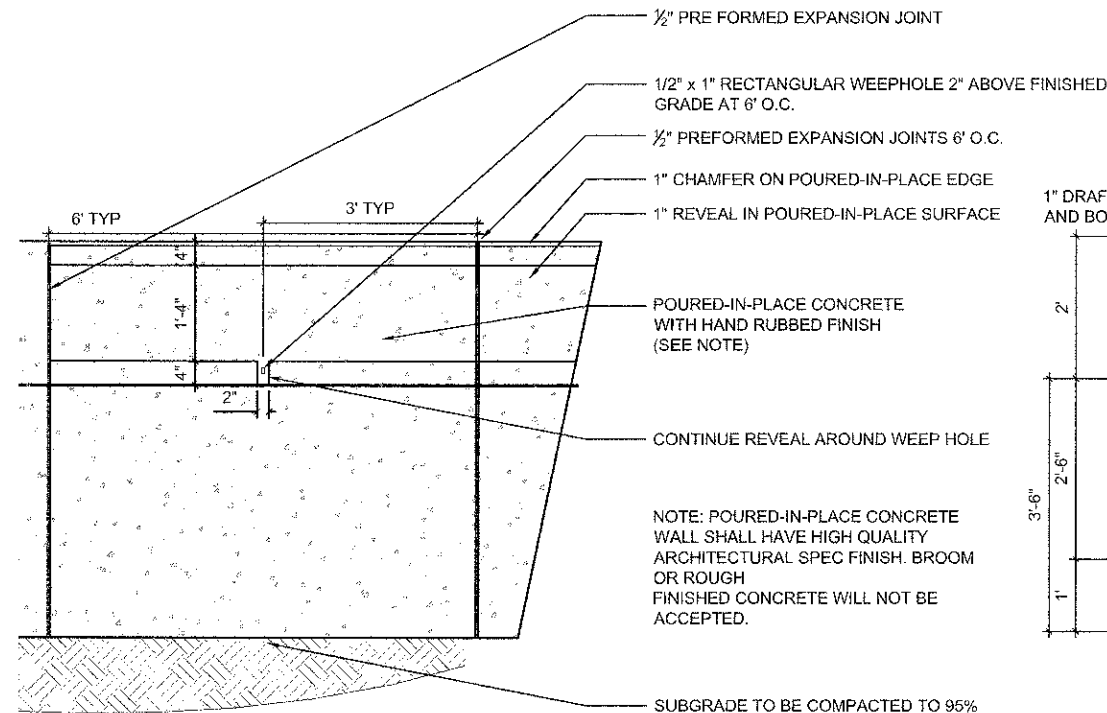


PLAN

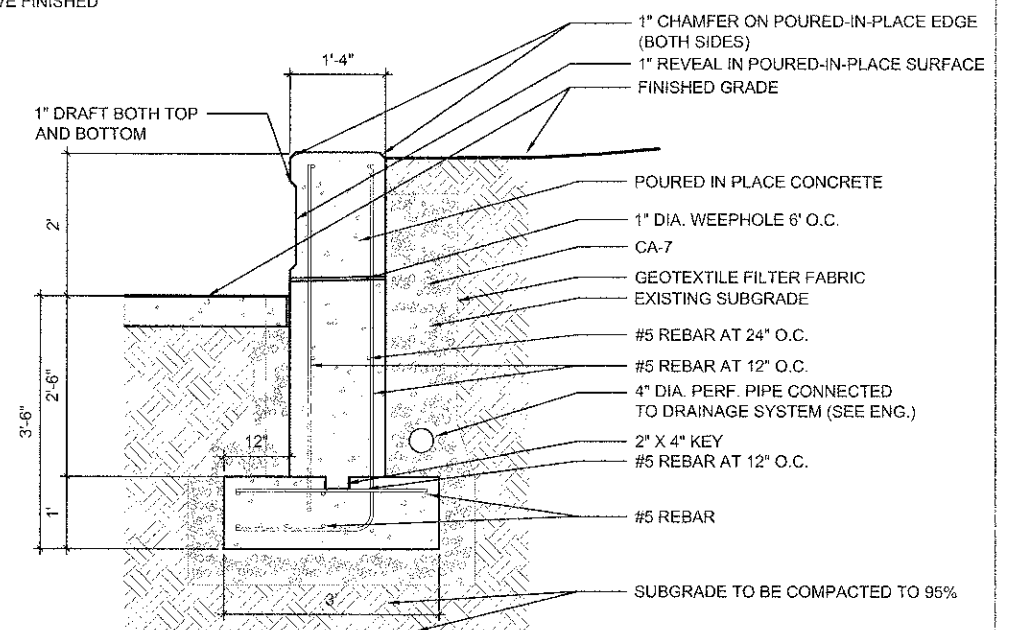


SECTION A

4 LIMESTONE PILLAR E  
SCALE= 1"=1'-0"



ELEVATION



SECTION

5 POURED IN PLACE CONCRETE SEAT WALL  
SCALE= 3/4"=1'-0"

FILE NAME =	USER NAME	DESIGNED — JB & JM	REVISED —
\$FILEL\$		DRAWN — JC & SM	REVISED —
	PLDT SCALE =	CHECKED — JB	REVISED —
	PLDT DATE =	DATE — 10.18.2012	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SITE DETAILS  
WILSON STREET

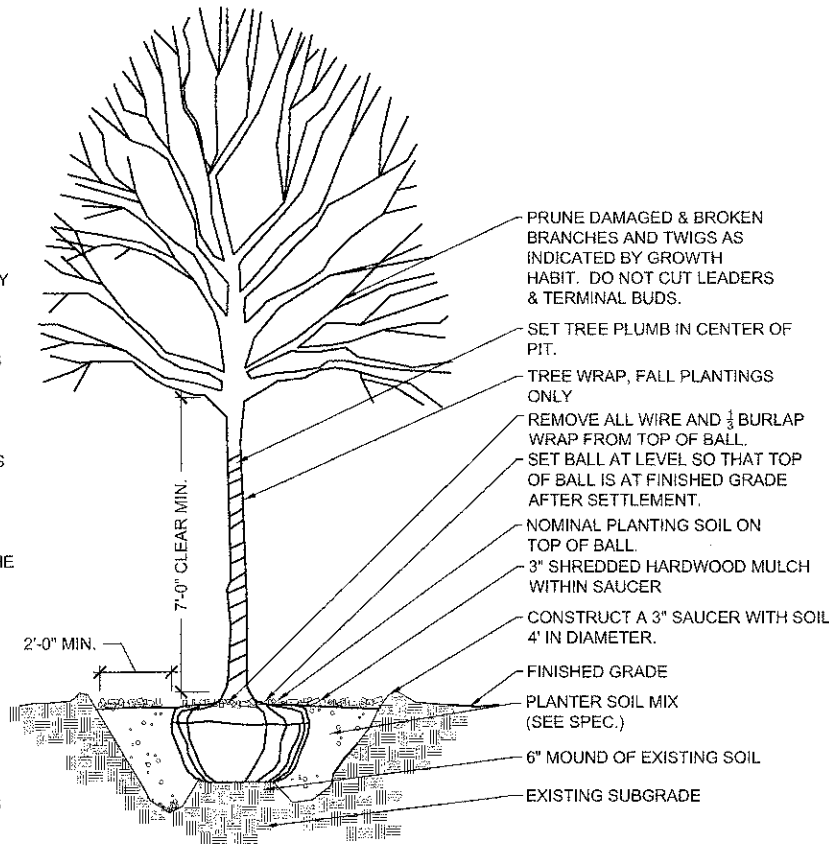
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 33
63763 CONTRACT NO.				ILLINOIS FED. AID PROJECT

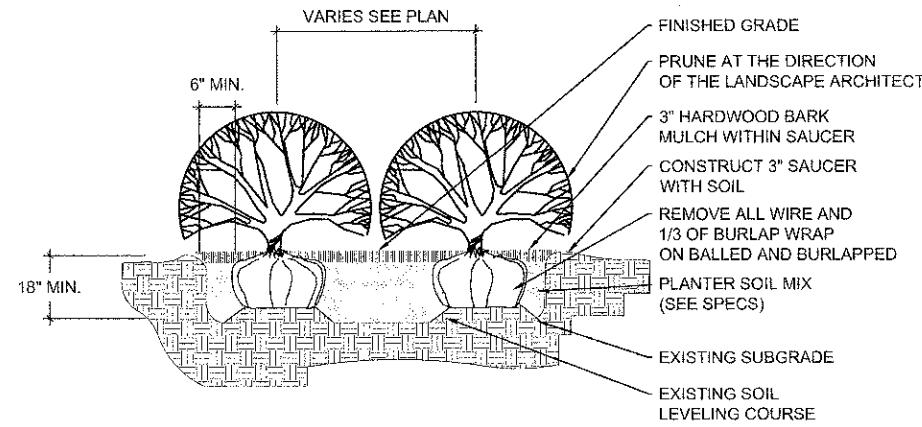
NOTES:  
ALL NOTES FOR TREE PLANTING IN BED ALSO APPLY TO TREE PLANTING IN SIDEWALK PIT.

ALL PRUNING OF NEW TREES MUST BE DONE AFTER PLANTING AND AT THE DIRECTION OF THE LANDSCAPE ARCHITECT. REMOVE ENOUGH BRANCHES (NOT JUST END TIPS) TO REDUCE FOLIAGE, RETAIN NATURAL CHARACTER AND GENERAL SHAPE OF TREE. TOP OF BALL SHALL BE AT THE SAME ELEVATIONS AS FINISHED GRADE.

WHEN SOIL CONDITIONS ARE ENCOUNTERED WITH POOR DRAINAGE, NOTIFY LANDSCAPE ARCHITECT, ELABORATE AND PREPARE RECOMMENDATIONS. SEE SPECIFICATIONS FOR DRAINAGE REQUIREMENTS FOR ALL TREES AND SHRUBS ON THIS PROJECT.



1 SHADE TREE PLANTING IN PLANTING BED OR SODDED LAWN  
SCALE= 3/4"=1'-0"



2 SHRUB PLANTING  
SCALE= 3/4"=1'-0"

2013 FALL ROTATION

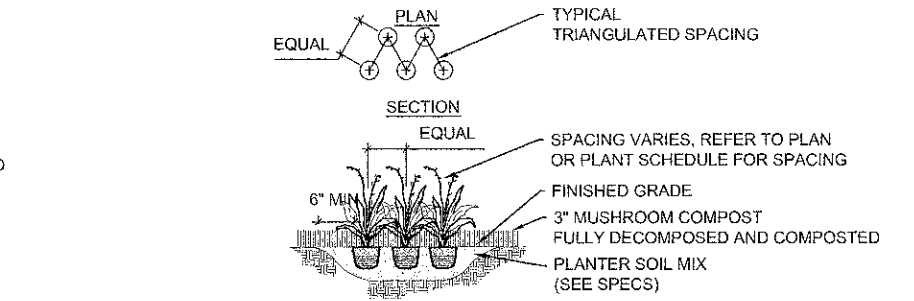
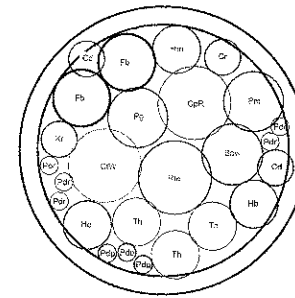
Planting date: no later than week of October 1, 2013

48" DIA x 30" HT ROUND  
Precast Concrete  
Total Quantity: 9

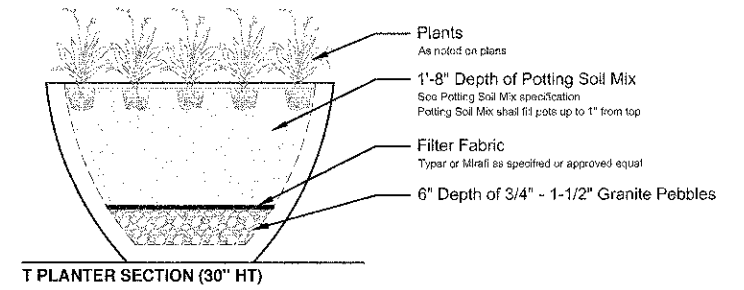
Coordinate fall planting date with supervising Resident Engineer/Client Representative

New Plants:

- 1 Pg Pennisetum glaucum 'Purple Majesty'
- 1 Pm Plectranthus 'Mona Lavender'
- 1 Kr Kale 'Chidori Red'
- 1 Bow Brassica 'Osaka White'
- 1 CpR Chrysanthemum 'Pizarra'
- 1 CtW Chrysanthemum 'Teranno'
- 5 Pdr Pansy 'Delta Pure Red'
- 3 Pdp Pansy 'Deep Purple'
- 2 Fb Festuca 'Elijah Blue'
- 1 Cr Calibrachoa 'Superbells Red'
- 2 Cd Calibrachoa 'Superbells Dreamsicle'
- 3 Th Tagetes 'Bonanza Harmony'
- 1 Hm Heuchera 'Marmalade'
- 1 Ho Heuchera 'Obsidian'
- 1 Hb Heuchera 'Beaujolais'
- 1 Rte Rudbeckia 'Tiger Eye'



3 GROUNDCOVER / PERENNIALS  
SCALE= 3/4"=1'-0"



T PLANTER SECTION (30" HT)

Code	Scientific Name	Common Name	T	S	#pits	season	size
Bow	Brassica oleracea 'Osaka White'	Osaka White Flowering Cabbage	9	22	31	fa	1 gal
Cd	Calibrachoa 'Superbells Dreamsicle'	Dreamsicle Superbells Calibrachoa	18	44	62	fa	4.5" pot
Cr	Calibrachoa 'Superbells Red'	Red Superbells Calibrachoa	9	44	53	fa	4.5" pot
CdO	Chrysanthemum 'Destino' (Orange)	Teranno Chrysanthemum	9	22	22	fa	8" pot
CpR	Chrysanthemum 'Pizarra' (RED)	Pizarra Chrysanthemum	9	22	31	fa	8" pot
CtW	Chrysanthemum 'Teranno' (WHITE)	Teranno Chrysanthemum	9	9	9	fa	8" pot
Fb	Festuca 'Elijah Blue'	Elijah Blue Fescue	18	18	18	fa	#1 cont
Hb	Heuchera 'Beaujolais'	Beaujolais Heuchera	9	22	31	fa	#1 cont
Hm	Heuchera 'Marmalade'	Marmalade Heuchera	9	22	31	fa	#1 cont
Ho	Heuchera 'Obsidian'	Obsidian Heuchera	9	22	31	fa	#1 cont
Jb	Juncus 'Blue Arrows'	Blue Arrows Juncus	9	44	44	fa	1 gal
Kr	Kale 'Chidori Red'	Chidori Red Kale	9	22	31	fa	8" pot
Pdp	Pansy 'Delta Deep Purple'	Delta Deep Purple Pansy	27	66	93	fa	4" pot
Pdr	Pansy 'Delta Pure Red'	Delta Pure Red Pansy	45	66	111	fa	4" pot
Pg	Pennisetum glaucum 'Purple Majesty'	Purple Majesty Ornamental Millet	9	9	9	fa	1 gal
Pm	Plectranthus 'Mona Lavender'	Mona Lavender Plectranthus	9	22	31	fa	4.5" pot
Rte	Rudbeckia 'Tiger Eye'	Tiger Eye Black-eyed Susan	9	22	31	fa	#1 cont
Th	Tagetes 'Bonanza Harmony'	Bonanza Harmony Marigold	27	66	93	fa	4.5" pot

5 PRECAST PLANTER PLANTING PLANT SCHEDULE

2013 FALL ROTATION

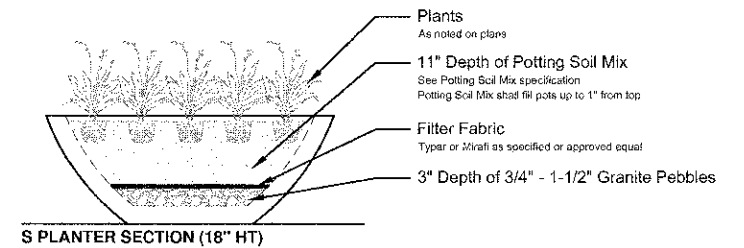
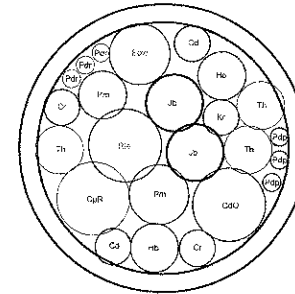
Planting date: no later than week of October 1, 2013

48" DIA x 18" HT ROUND  
Precast Concrete  
Total Quantity: 22

Coordinate fall planting date with supervising Resident Engineer/Client Representative

New Plants:

- 1 Pm Plectranthus 'Mona Lavender'
- 1 Kr Kale 'Chidori Red'
- 1 Bow Brassica 'Osaka White'
- 1 CpR Chrysanthemum 'Pizarra'
- 1 CdO Chrysanthemum 'Destino'
- 3 Pdr Pansy 'Delta Pure Red'
- 3 Pdp Pansy 'Deep Purple'
- 2 Jb Juncus 'Blue Arrows'
- 2 Cr Calibrachoa 'Superbells Red'
- 2 Cd Calibrachoa 'Superbells Dreamsicle'
- 3 Th Tagetes 'Bonanza Harmony'
- 1 Hm Heuchera 'Marmalade'
- 1 Ho Heuchera 'Obsidian'
- 1 Hb Heuchera 'Beaujolais'
- 1 Rte Rudbeckia 'Tiger Eye'



S PLANTER SECTION (18" HT)

General Notes:

All substitutions must be approved by the LA.

Do not deadhead without approval. All deadheads should remain on plant as long as possible.

Replace dead or missing specimens with a plant of the same variety.

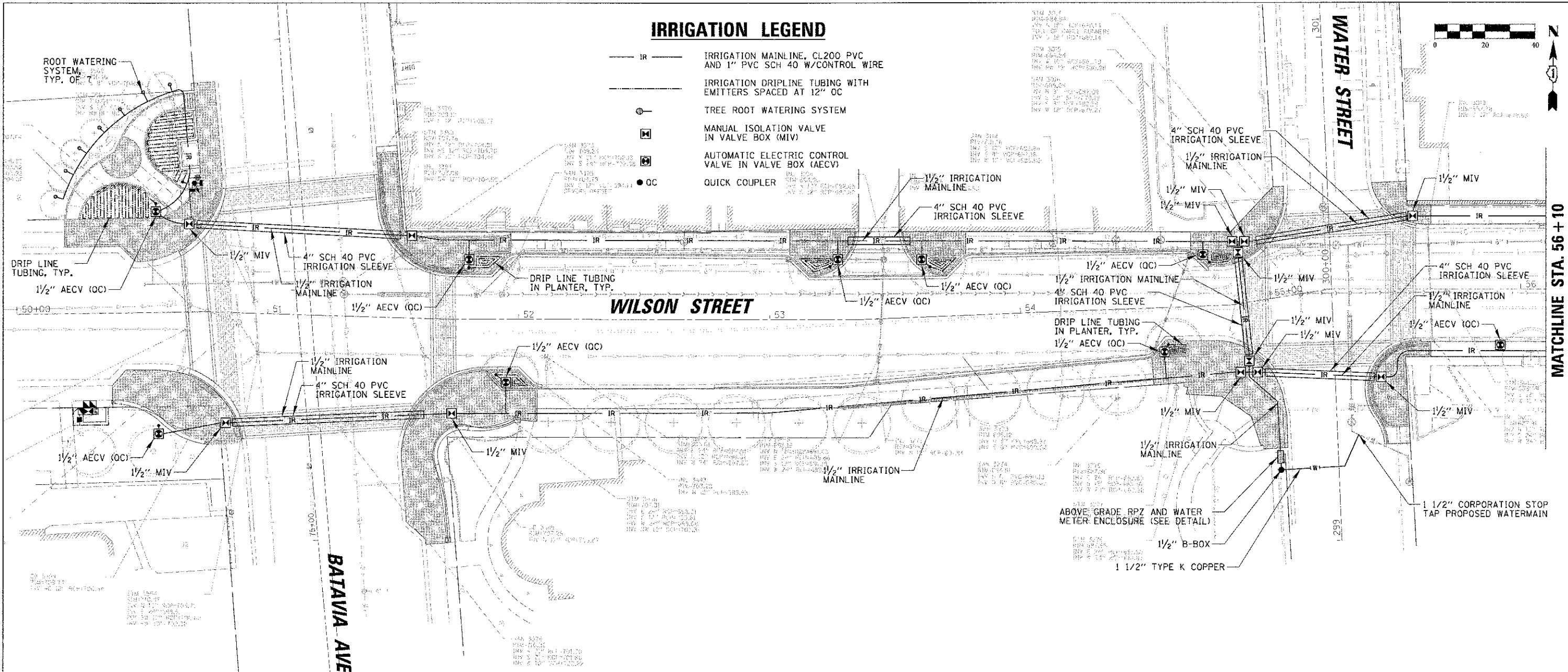
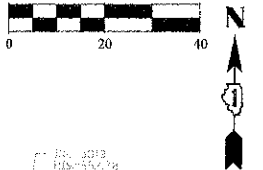
Please notify Resident Engineer of all plants that did not survive and require replacement including: species, quantity, container and location. This information must be submitted prior to billing and acceptance for replacement plants.

4 PRECAST PLANTER PLANTING PLANS AND SECTIONS  
SCALE= NOT TO SCALE

FILE NAME =	USER NAME	DESIGNED -- JB & JM	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLANTING DETAILS</b> WILSON STREET				F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILES		DRAWN -- JC & SM	REVISED --		SCALE: SHOWN	SHEET	OF	SHEETS	STA.	TO STA.	1441	12-00073-01-TL	KANE	88 34
	PLOT SCALE =	CHECKED -- JB	REVISED --										63763	CONTRACT NO.
	PLOT DATE =	DATE -- 10.18.2012	REVISED --											ILLINOIS FED. AID PROJECT

### IRRIGATION LEGEND

- IR — IRRIGATION MAINLINE, CL200 PVC AND 1" PVC SCH 40 W/CONTROL WIRE
- IRRIGATION DRIPLINE TUBING WITH EMITTERS SPACED AT 12" OC
- TREE ROOT WATERING SYSTEM
- ⊠ MANUAL ISOLATION VALVE IN VALVE BOX (MIV)
- ⊠ AUTOMATIC ELECTRIC CONTROL VALVE IN VALVE BOX (AECV)
- OC QUICK COUPLER



### IRRIGATION BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
CONNECTION TO EXISTING WATERMAIN INCLUDING 1.5" CORP STOP	EACH	1
1.5" TYPE K COPPER WATER SERVICE	FOOT	50
1.5" CURB STOP IN B-BOX	EACH	1
RPZ ENCLOSURE	EACH	1
1.5" CL200 PVC IRRIGATION MAINLINE	FOOT	2900
1" PVC SCH 40 W/CONTROL WIRE	FOOT	2900
4" SCH 40 PVC IRRIGATION SLEEVE	FOOT	750
DRIPLINE TUBING	FOOT	2500
TREE ROOT WATERING	EACH	7
MANUAL ISOLATION VALVE IN BOX	EACH	16
AUTO ELECT. CONTROL VALVE, DECODERS, & QUICK COUPLERS IN BOX	EACH	18

<b>CB</b> <b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-9500	USER NAME = kbaldev	DESIGNED JPC	REVISED -
	PLOT SCALE = 2"	DRAWN KWB, JFM	REVISED -
	PLOT DATE = 10/22/2012	CHECKED JPC	REVISED -
		DATE 10/22/2012	REVISED -

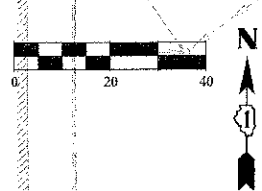
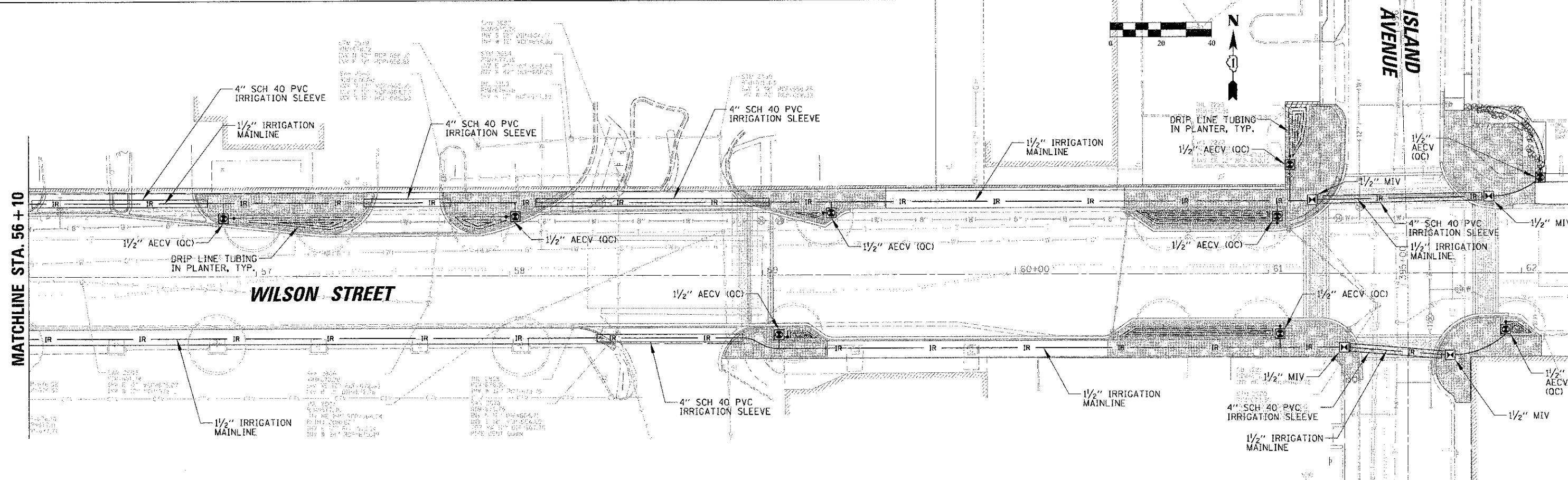
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN (1 OF 2)  
WILSON STREET

SCALE: 1"=20' SHEET OF 88 SHEETS STA. TO STA.

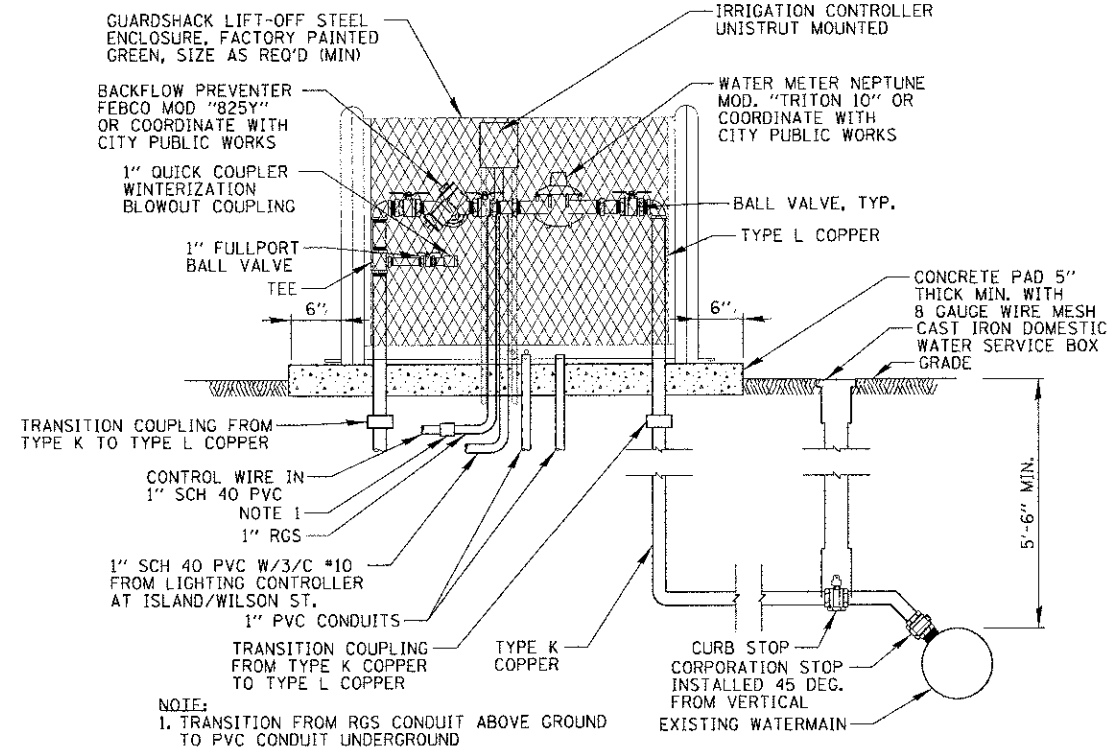
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
1441	12-00073-01-TL	KANE	88 35
			CONTRACT NO. 63763
ILLINOIS FED. AID PROJECT			

MATCHLINE STA. 56 + 10



**IRRIGATION LEGEND**

- IR — IRRIGATION MAINLINE, CL200 PVC AND 1" PVC SCH 40 W/CONTROL WIRE
- IRRIGATION DRIPLINE TUBING WITH EMITTERS SPACED AT 12" OC
- TREE ROOT WATERING SYSTEM
- ◻ MANUAL ISOLATION VALVE IN VALVE BOX (MIV)
- ◼ AUTOMATIC ELECTRIC CONTROL VALVE IN VALVE BOX (AECV)
- QUICK COUPLER



**IRRIGATION SERVICE PIPING DETAIL**  
N.T.S.

**CHRISTOPHER B. BURKE**  
ENGINEERING, LTD.  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME: kburke  
DESIGNED: JPC  
DRAWN: KWIB, JFM  
CHECKED: JPC  
DATE: 10/22/2012

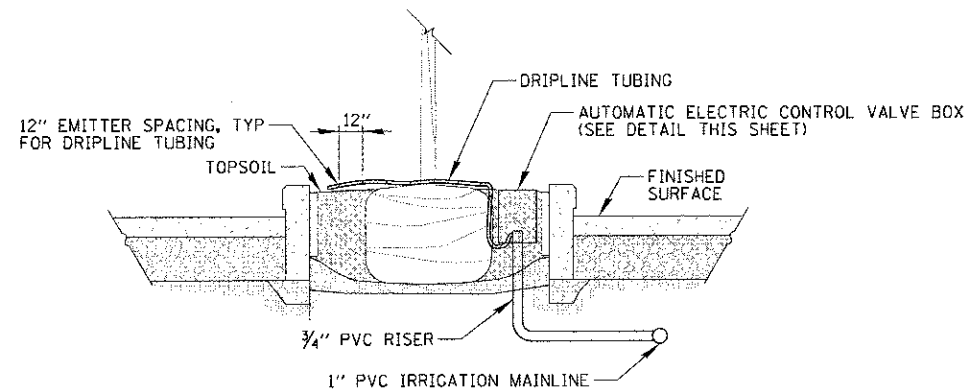
REVISED: -  
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REVISED: -  
REVISED: -

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

**IRRIGATION PLAN (2 OF 2)**  
**WILSON STREET**

SCALE: 1"=20' SHEET OF 88 SHEETS STA. TO STA.

F.A.U. RT.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	36
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT	

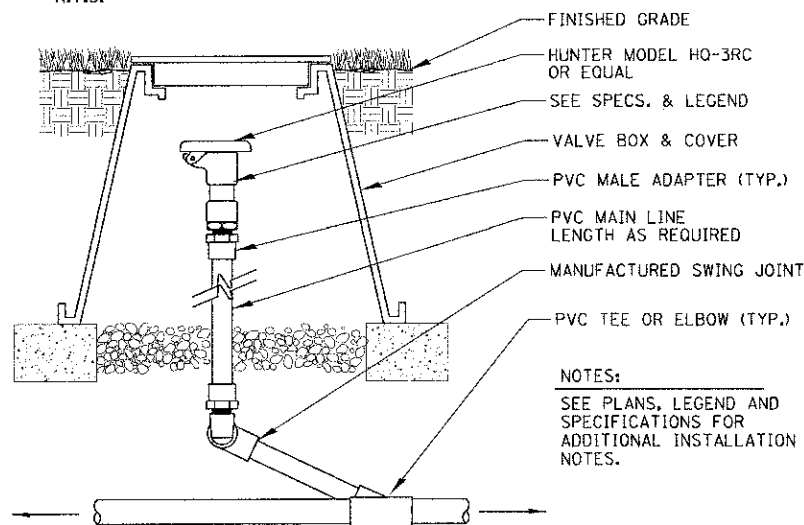


**NOTES:**

- CONTRACTOR SHALL COORDINATE IRRIGATION PIPING WITH PROPOSED ELECTRICAL EQUIPMENT LOCATED INSIDE PLANTER BOXES.

**PLANTER BOX IRRIGATION DETAIL**

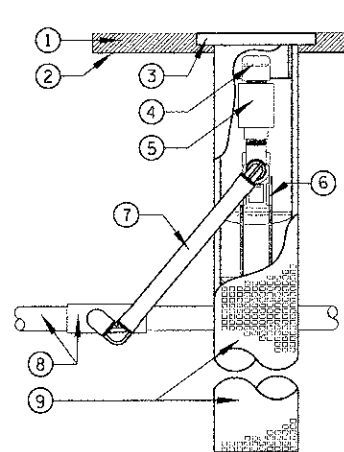
N.T.S.



- NOTES:**  
SEE PLANS, LEGEND AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION NOTES.

**QUICK COUPLING VALVE DETAIL**

N.T.S.

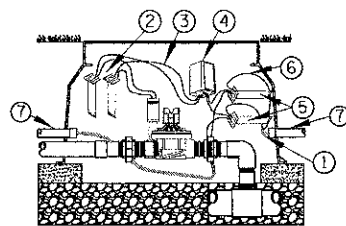


- MULCH
- FINISH GRADE
- GRATED CAP
- HUNTER 0.50 GPM PCB BUBBLER
- HUNTER HCV CHECK VALVE
- PATENTED STRATA ROOT SYSTEM
- HUNTER SWING JOINT
- LATERAL TEE OR ELL/PIPE
- ROOT INTRUSION BARRIER

NOTE: INSTALL HUNTER FILTER FABRIC SLEEVE-#RZWS-SLEEVE

**36" ROOT ZONE WATERING SYSTEM**

N.T.S.

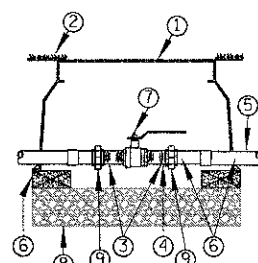


**NOTES:**

- ALL DUAL-1 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR: ADDRESS 1 = BLACK
- THE MINIMUM RECOMMENDED LEVEL OF PROTECTION IS TO HAVE ONE DECODER GROUNDED AT THE END OF EACH WIRE PATH AND ONE DECODER GROUNDED EVERY 1,000 FT OR 12TH DECODER. FOR HIGHER LEVELS OF PROTECTION, GROUND THE DECODERS MORE FREQUENTLY.

**DUAL-1 DECODER DETAIL**

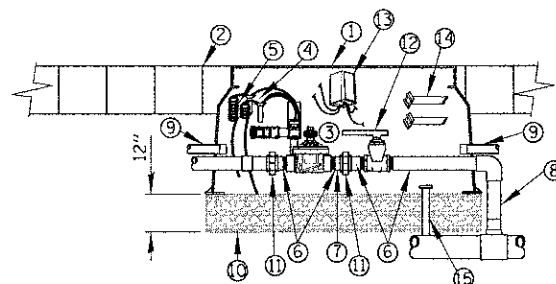
N.T.S.



- VALVE BOX, TIER 15 OR EQUAL LOADING
- FINISH GRADE
- SCH 80 T.O.E. NIPPLE
- SCH 80 NIPPLE
- MAIN LINE PIPE & FITTINGS
- BRICK SUPPORTS (4)
- FULL PORT BALL VALVE
- 3/4" MINUS WASHED GRAVEL
- PVC SLIP UNIONS

**MANUAL ISOLATION VALVE DETAIL**

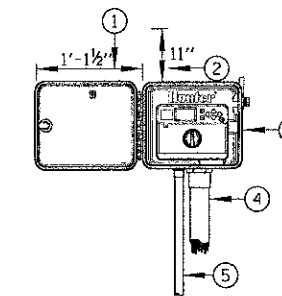
N.T.S.



- VALVE BOX, TIER 15 OR EQUAL LOADING WITH BOLTED/GASKETED LID AND "IRRIGATION" LOGO. SIZED TO BE DETERMINED BY CONTRACTOR
- FINISH GRADE
- REMOTE CONTROL VALVE MODEL ICV-101G
- WATERPROOF CONNECTORS (2)
- 18-24" COILED WIRE
- SCH 80 THREADED ONE END (T.O.E.) ONLY NIPPLE
- SCH 80 NIPPLE
- MAIN LINE PIPE & FITTINGS
- CONTROL WIRING IN SCH 40 PVC
- 3/4" MINUS WASHED GRAVEL
- PVC SLIP UNIONS
- BALL VALVE LINE SIZED
- MODEL DUAL-1 DECODER
- DBRY-6 (2) WATERPROOF SPLICE CONNECTORS
- QUICK COUPLER

**AUTOMATIC ELECTRIC CONTROL VALVE WITH ISOLATION VALVE DETAIL**

N.T.S.



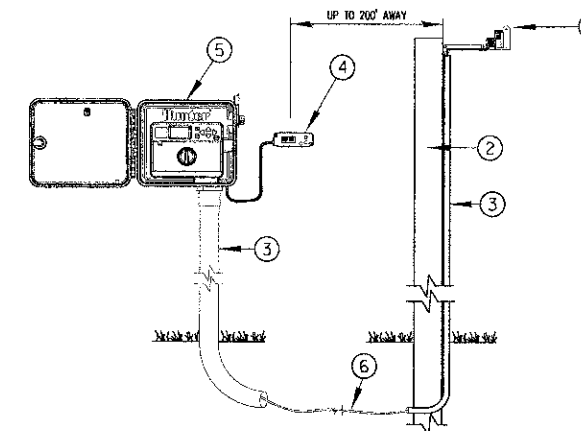
- MINIMUM CLEARANCE FOR DOOR OPENING
- MINIMUM VERTICAL CLEARANCE NEEDED FOR HINGE PIN REMOVAL
- I-CORE CONTROLLER MODEL #IC-600-PL-DUAL48M
- CONTROL WIRE IN ELECTRICAL CONDUIT. SIZE AND TYPE PER LOCAL CODE
- 1" POWER SUPPLY CONDUIT WITH 3/C #10 J-BOX INSIDE CONTROLLER CONNECT PER LOCAL CODE

**NOTES:**

- MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

**I-CORE CONTROLLER**

N.T.S.



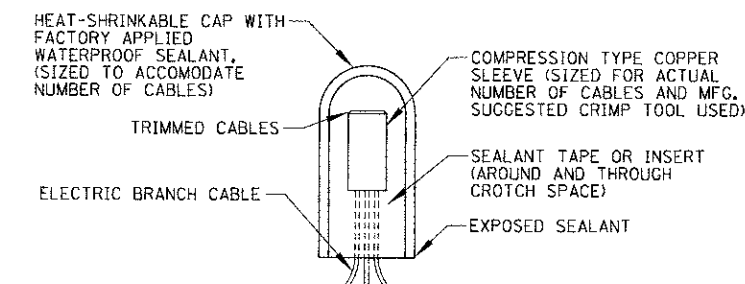
- MODEL: SOLAR SYNC SENSOR
- SUITABLE POST, POLE, OR GUTTER MOUNT. MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN
- CONDUIT FOR SOLAR SYNC COMMUNICATION WIRE TO CONTROLLER OR 12" BELOW GRADE
- MODEL SOLAR SYNC MODULE MOUNT LESS THAN 6' AWAY FROM CONTROLLER.
- HUNTER I-CORE CONTROLLER
- CONTROL WIRE

**NOTES:**

- COORDINATE LOCATION OF SOLAR SYNC SENSOR WITH CITY.

**SOLAR SYNC SYSTEM**

N.T.S.



**WATERPROOF SPLICE**

N.T.S.



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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

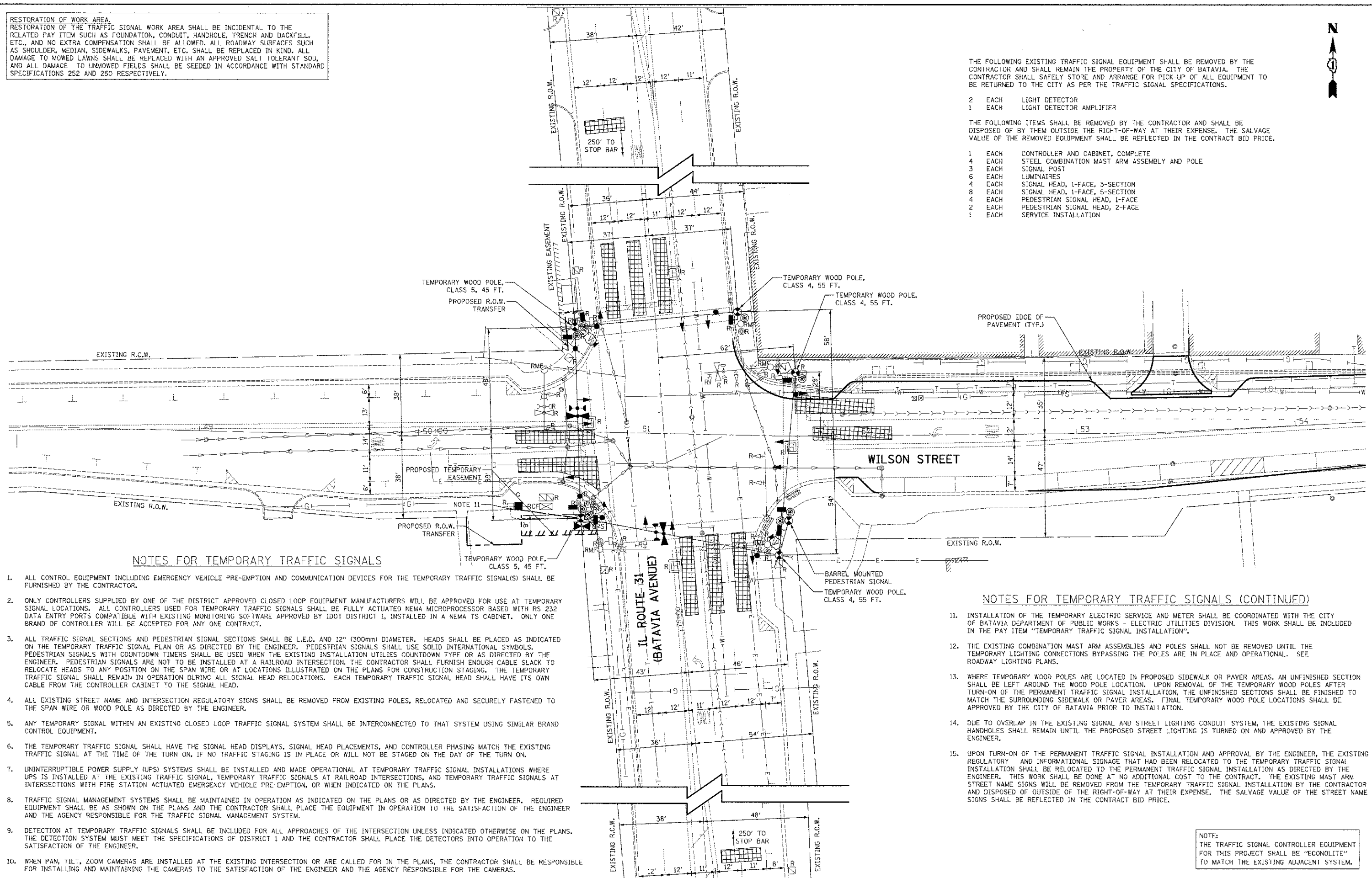


THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE CITY OF BATAVIA. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK-UP OF ALL EQUIPMENT TO BE RETURNED TO THE CITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

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 CONTROLLER AND CABINET, COMPLETE
- 4 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 3 EACH SIGNAL POST
- 6 EACH LUMINAIRES
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 1 EACH SERVICE INSTALLATION



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY VEHICLE 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 RS 232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS 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" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL USE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. 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.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION 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.

**NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)**

11. INSTALLATION OF THE TEMPORARY ELECTRIC SERVICE AND METER SHALL BE COORDINATED WITH THE CITY OF BATAVIA DEPARTMENT OF PUBLIC WORKS - ELECTRIC UTILITIES DIVISION. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
12. THE EXISTING COMBINATION MAST ARM ASSEMBLIES AND POLES SHALL NOT BE REMOVED UNTIL THE TEMPORARY LIGHTING CONNECTIONS BYPASSING THE POLES ARE IN PLACE AND OPERATIONAL. SEE ROADWAY LIGHTING PLANS.
13. WHERE TEMPORARY WOOD POLES ARE LOCATED IN PROPOSED SIDEWALK OR PAVEMENT AREAS, AN UNFINISHED SECTION SHALL BE LEFT AROUND THE WOOD POLE LOCATION. UPON REMOVAL OF THE TEMPORARY WOOD POLES AFTER TURN-ON OF THE PERMANENT TRAFFIC SIGNAL INSTALLATION, THE UNFINISHED SECTIONS SHALL BE FINISHED TO MATCH THE SURROUNDING SIDEWALK OR PAVEMENT AREAS. FINAL TEMPORARY WOOD POLE LOCATIONS SHALL BE APPROVED BY THE CITY OF BATAVIA PRIOR TO INSTALLATION.
14. DUE TO OVERLAP IN THE EXISTING SIGNAL AND STREET LIGHTING CONDUIT SYSTEM, THE EXISTING SIGNAL HANDHOLES SHALL REMAIN UNTIL THE PROPOSED STREET LIGHTING IS TURNED ON AND APPROVED BY THE ENGINEER.
15. UPON TURN-ON OF THE PERMANENT TRAFFIC SIGNAL INSTALLATION AND APPROVAL BY THE ENGINEER, THE EXISTING REGULATORY AND INFORMATIONAL SIGNAGE THAT HAD BEEN RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE RELOCATED TO THE PERMANENT TRAFFIC SIGNAL INSTALLATION AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT. THE EXISTING MAST ARM STREET NAME SIGNS WILL BE REMOVED FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION BY THE CONTRACTOR AND DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE STREET NAME SIGNS SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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



USER NAME = brd	DESIGNED - BRD	REVISED -
PLOT SCALE = 28.0000' / in.	DRAWN - OJT	REVISED -
PLOT DATE = 11/28/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

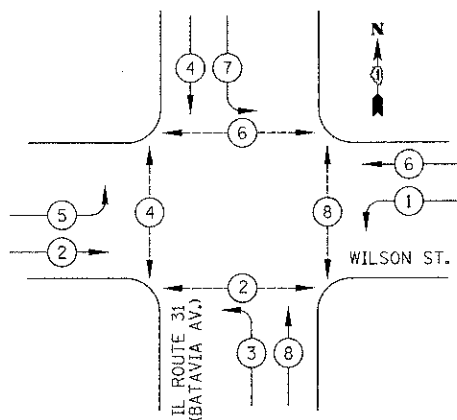
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN  
 WILSON STREET AT IL ROUTE 31 (BATAVIA AVE.)**

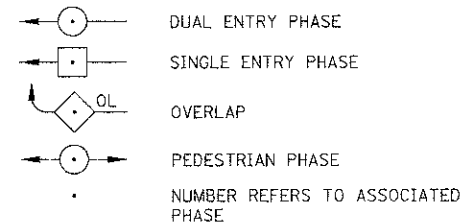
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.D. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 36
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

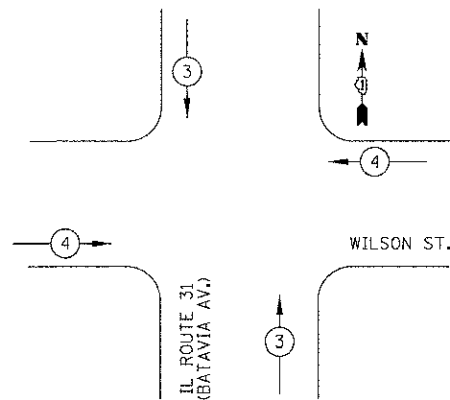
TEMPORARY CONTROLLER SEQUENCE



LEGEND



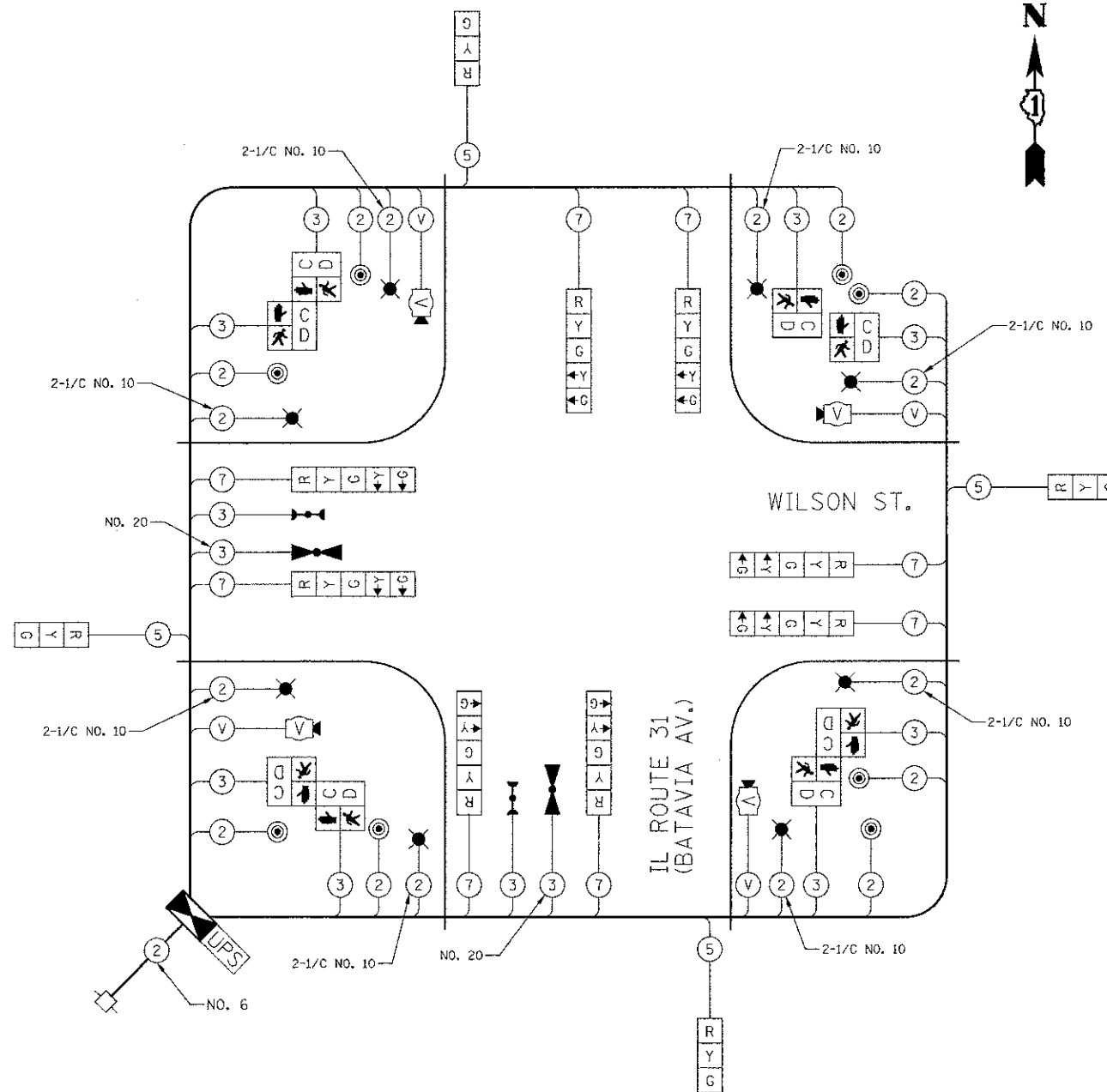
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN  
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	12	INCAND.	17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	19
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
LUMINAIRES	8	250		0.50	1000
FLASHER				0.50	
TOTAL =					1691

ENERGY COSTS TO: CITY OF BATAVIA  
100 NORTH ISLAND AVENUE  
BATAVIA, IL 60510

ENERGY SUPPLY: CONTACT: ELECTRIC DEPARTMENT  
PHONE: (630) 454-2350  
COMPANY: CITY OF BATAVIA

- NOTES FOR TEMPORARY COMBINATION LIGHTING
- TEMPORARY LIGHTING SHALL CONSIST OF 250W HPS MC-III COBRAHEADS ON 15' MAST ARMS MOUNTED ON THE TEMPORARY WOOD POLES FOR THE TEMPORARY TRAFFIC SIGNAL AS SHOWN ON THE TEMPORARY SIGNAL AND CABLE PLAN.
  - THE LUMINAIRES SHALL BE CONNECTED TO A SEPARATE 20 AMP CIRCUIT BREAKER IN THE TEMPORARY TRAFFIC SIGNAL CABINET. THE LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTIBLE POWER SUPPLY UNIT.
  - THE LUMINAIRES SHALL BE INDIVIDUALLY PHOTOCELL CONTROLLED.
  - ALL WORK REQUIRED TO FURNISH AND INSTALL TEMPORARY LIGHTING INCLUDING AERIAL CABLE 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.

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



USER NAME = mfb  
DESIGNED - BRD  
DRAWN - OJT  
CHECKED - JJE  
DATE - 10/22/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

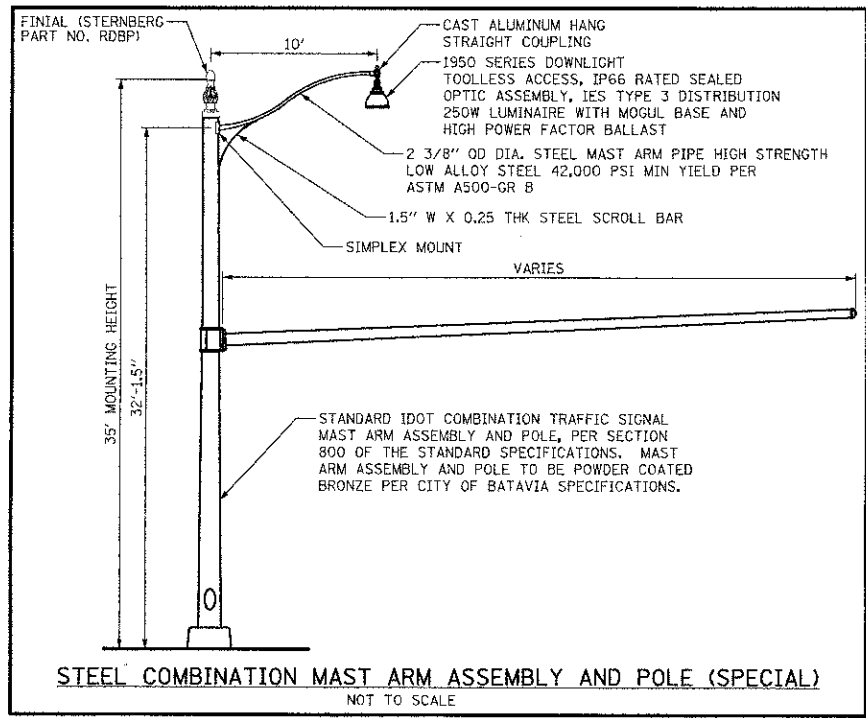
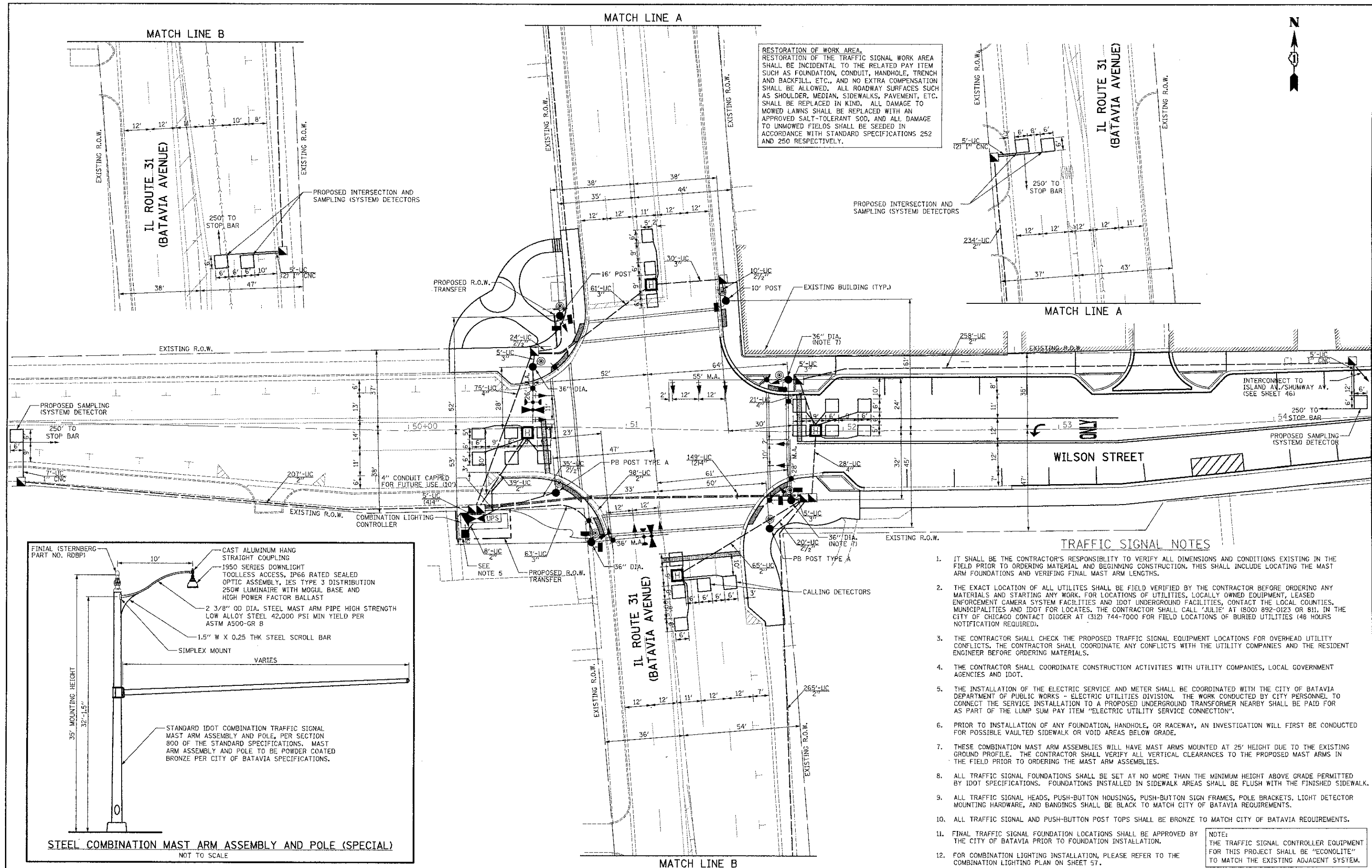
TEMPORARY CABLE PLAN, TEMPORARY SEQUENCE OF OPERATION,  
& TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
WILSON STREET AT IL ROUTE 31 (BATAVIA AVENUE)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	39
CONTRACT NO. 63763				

NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



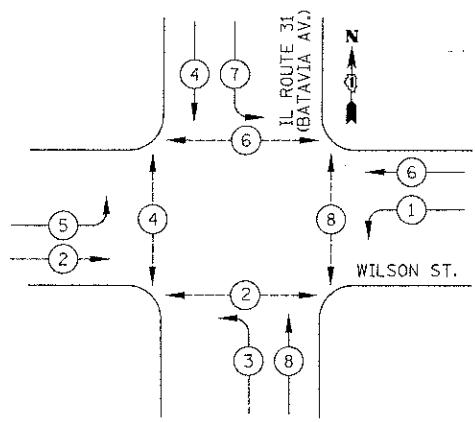
RESTORATION OF WORK AREA.  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL 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.



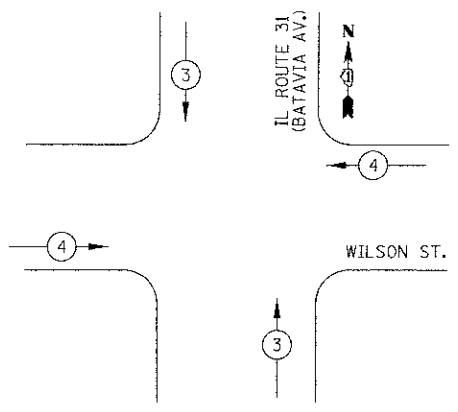
- TRAFFIC SIGNAL NOTES**
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIAL AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING FINAL MAST ARM LENGTHS.
  - THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
  - THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
  - THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
  - THE INSTALLATION OF THE ELECTRIC SERVICE AND METER SHALL BE COORDINATED WITH THE CITY OF BATAVIA DEPARTMENT OF PUBLIC WORKS - ELECTRIC UTILITIES DIVISION. THE WORK CONDUCTED BY CITY PERSONNEL TO CONNECT THE SERVICE INSTALLATION TO A PROPOSED UNDERGROUND TRANSFORMER NEARBY SHALL BE PAID FOR AS PART OF THE LUMP SUM PAY ITEM "ELECTRIC UTILITY SERVICE CONNECTION".
  - PRIOR TO INSTALLATION OF ANY FOUNDATION, HANDHOLE, OR RACEWAY, AN INVESTIGATION WILL FIRST BE CONDUCTED FOR POSSIBLE VAULTED SIDEWALK OR VOID AREAS BELOW GRADE.
  - THESE COMBINATION MAST ARM ASSEMBLIES WILL HAVE MAST ARMS MOUNTED AT 25' HEIGHT DUE TO THE EXISTING GROUND PROFILE. THE CONTRACTOR SHALL VERIFY ALL VERTICAL CLEARANCES TO THE PROPOSED MAST ARMS IN THE FIELD PRIOR TO ORDERING THE MAST ARM ASSEMBLIES.
  - ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE SET AT NO MORE THAN THE MINIMUM HEIGHT ABOVE GRADE PERMITTED BY IDOT SPECIFICATIONS. FOUNDATIONS INSTALLED IN SIDEWALK AREAS SHALL BE FLUSH WITH THE FINISHED SIDEWALK.
  - ALL TRAFFIC SIGNAL HEADS, PUSH-BUTTON HOUSINGS, PUSH-BUTTON SIGN FRAMES, POLE BRACKETS, LIGHT DETECTOR MOUNTING HARDWARE, AND BANDINGS SHALL BE BLACK TO MATCH CITY OF BATAVIA REQUIREMENTS.
  - ALL TRAFFIC SIGNAL AND PUSH-BUTTON POST TOPS SHALL BE BRONZE TO MATCH CITY OF BATAVIA REQUIREMENTS.
  - FINAL TRAFFIC SIGNAL FOUNDATION LOCATIONS SHALL BE APPROVED BY THE CITY OF BATAVIA PRIOR TO FOUNDATION INSTALLATION.
  - FOR COMBINATION LIGHTING INSTALLATION, PLEASE REFER TO THE COMBINATION LIGHTING PLAN ON SHEET 57.
- NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

	USER NAME = b-d	DESIGNED - BRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODERNIZATION PLAN</b> <b>WILSON STREET AT IL ROUTE 31 (BATAVIA AVENUE)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,000' / in. PLOT DATE = 11/28/2012	DRAWN - OJT CHECKED - JJE DATE - 10/22/2012	REVISED - REVISED - REVISED - REVISED -			1441 12-00073-01-TL KANE 88 40 <b>CONTRACT NO. 63763</b>	STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT		

**PROPOSED CONTROLLER SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

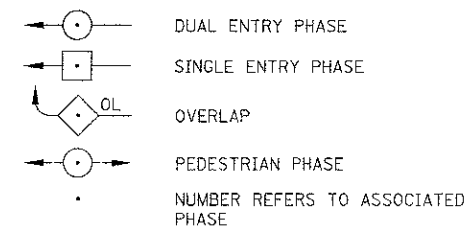


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	14
SIGN PANEL - TYPE 2	SQ FT	25
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1076
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	89
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	169
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	452
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	7
PAINT NEW COMBINATION MAST ARM ASSEMBLY AND POLE, UNDER 40 FOOT	EACH	3
PAINT NEW COMBINATION MAST ARM ASSEMBLY AND POLE, 40 FOOT AND OVER	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1329
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1718
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1254
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1580
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3606
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	20
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	822
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	47
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE I	FOOT	790
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	299
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT. (SPECIAL)	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
PEDESTRIAN PUSHBUTTON POST, TYPE A	EACH	2

**LEGEND**



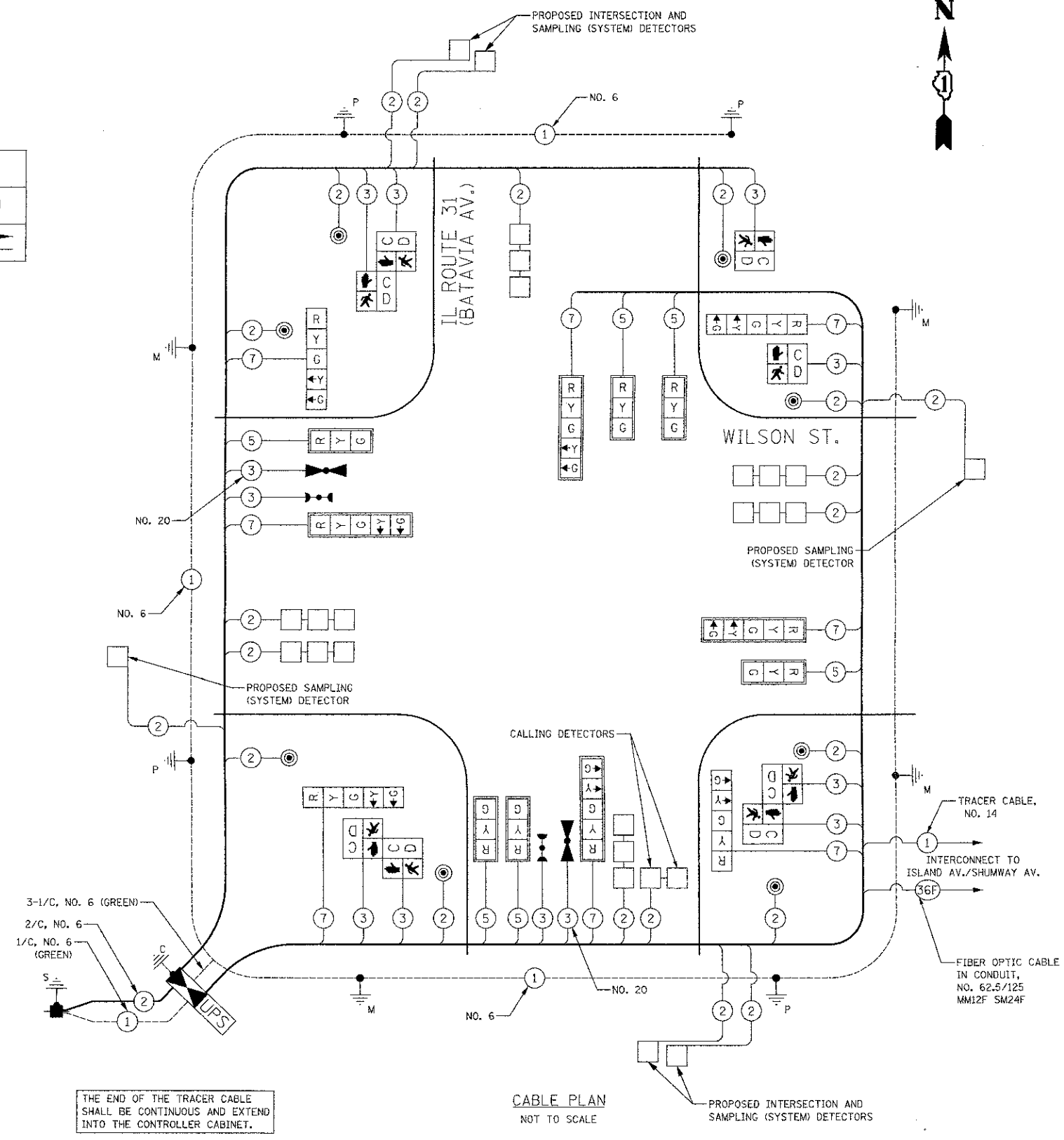
**PHASE DESIGNATION DIAGRAM**

NOTE: PHASES 4 AND 8 SHALL BE PLACED IN RECALL DURING NON-PEAK HOURS.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	16		12	0.10	19
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					578

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: ELECTRIC DEPARTMENT  
PHONE: (630) 454-2350  
COMPANY: CITY OF BATAVIA



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

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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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



USER NAME = brd	DESIGNED - BRD	REVISED -
PLOT SCALE = 20,000' / 1" =	DRAWN - OJT	REVISED -
PLOT DATE = 11/28/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SEQUENCE OF OPERATION, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES**  
WILSON STREET AT IL ROUTE 31 (BATAVIA AVENUE)

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 41
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES FOR TEMPORARY TRAFFIC SIGNALS

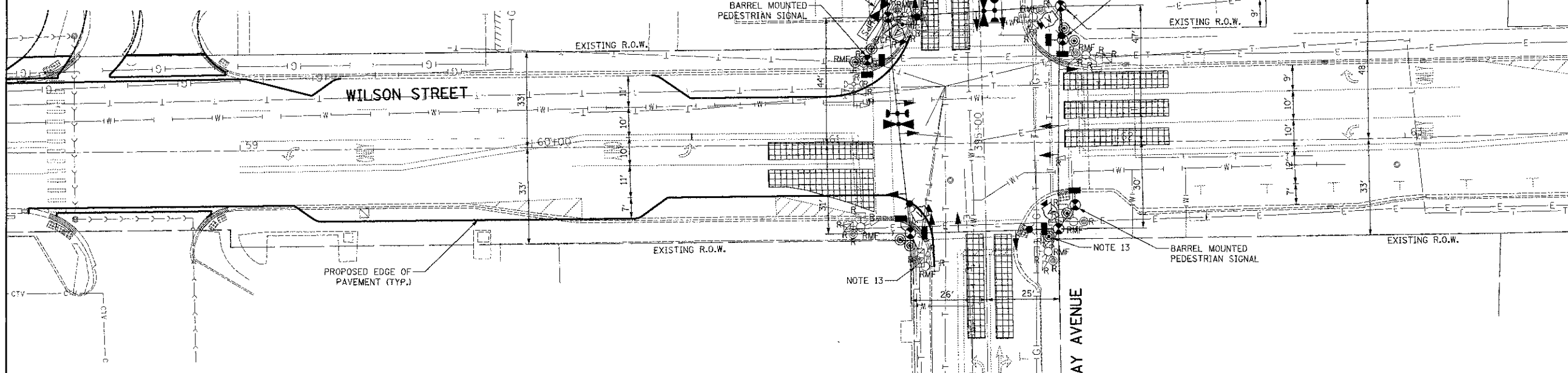
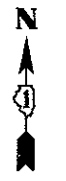
- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY VEHICLE PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS 232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE L.E.D. AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL USE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. 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.
- 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.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 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.
- 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.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION 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.
- 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.
- 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.
- THE TEMPORARY ELECTRIC SERVICE CONNECTION SHALL BE PROVIDED UNDERGROUND DIRECTLY INTO THE TEMPORARY CONTROLLER CABINET BY THE CITY OF BATAVIA DEPARTMENT OF PUBLIC WORKS - ELECTRIC UTILITIES DIVISION. THIS WORK WILL INCLUDE INSTALLATION OF AN ELECTRIC METER. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE ELECTRIC UTILITIES DIVISION, AND IT SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- THE EXISTING LIGHT POLES SHALL NOT BE REMOVED UNTIL THE TEMPORARY LIGHTING CONNECTIONS BYPASSING THE POLES ARE IN PLACE AND OPERATIONAL. SEE THE ROADWAY LIGHTING PLANS FOR MORE INFORMATION.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE CITY OF BATAVIA. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK-UP OF ALL EQUIPMENT TO BE RETURNED TO THE CITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

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 CONTROLLER AND CABINET, COMPLETE
- 2 EACH ALUMINUM COMBINATION MAST ARM ASSEMBLY AND POLE
- 2 EACH SIGNAL POST
- 4 EACH LIGHT POLE
- 4 EACH LUMINAIRE
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION



NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)

- DUE TO OVERLAP IN THE EXISTING SIGNAL AND STREET LIGHTING CONDUIT SYSTEM, THE EXISTING SIGNAL HANDHOLES SHALL REMAIN UNTIL THE PROPOSED STREET LIGHTING IS TURNED ON AND APPROVED BY THE ENGINEER.
- WHERE TEMPORARY WOOD POLES ARE LOCATED IN PROPOSED SIDEWALK OR PAVER AREAS, AN UNFINISHED SECTION SHALL BE LEFT AROUND THE WOOD POLE LOCATION. UPON REMOVAL OF THE TEMPORARY WOOD POLES AFTER TURN-ON OF THE PERMANENT TRAFFIC SIGNAL INSTALLATION, THE UNFINISHED SECTIONS SHALL BE FINISHED TO MATCH THE SURROUNDING SIDEWALK OR PAVER AREAS. FINAL TEMPORARY WOOD POLE LOCATIONS SHALL BE APPROVED BY THE CITY OF BATAVIA PRIOR TO INSTALLATION.
- UPON TURN-ON OF THE PERMANENT TRAFFIC SIGNAL INSTALLATION AND APPROVAL BY THE ENGINEER, THE EXISTING REGULATORY AND INFORMATIONAL SIGNAGE THAT HAD BEEN RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE RELOCATED TO THE PERMANENT TRAFFIC SIGNAL INSTALLATION AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT. THE EXISTING MAST ARM STREET NAME SIGNS WILL BE REMOVED FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION BY THE CONTRACTOR OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE STREET NAME SIGNS SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

RESTORATION OF WORK AREA.  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH 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.



USER NAME = brd	DESIGNED - BRD	REVISED -
PL07 SCALE = 20,000' / 1" = 1"	DRAWN - OJT	REVISED -
PL07 DATE = 11/20/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

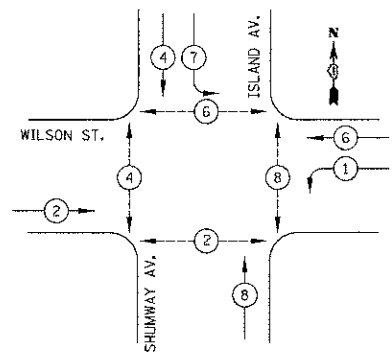
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN  
WILSON STREET AT ISLAND AVENUE / SHUMWAY AVENUE

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

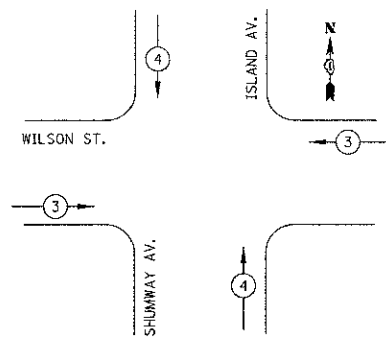
F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 42
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

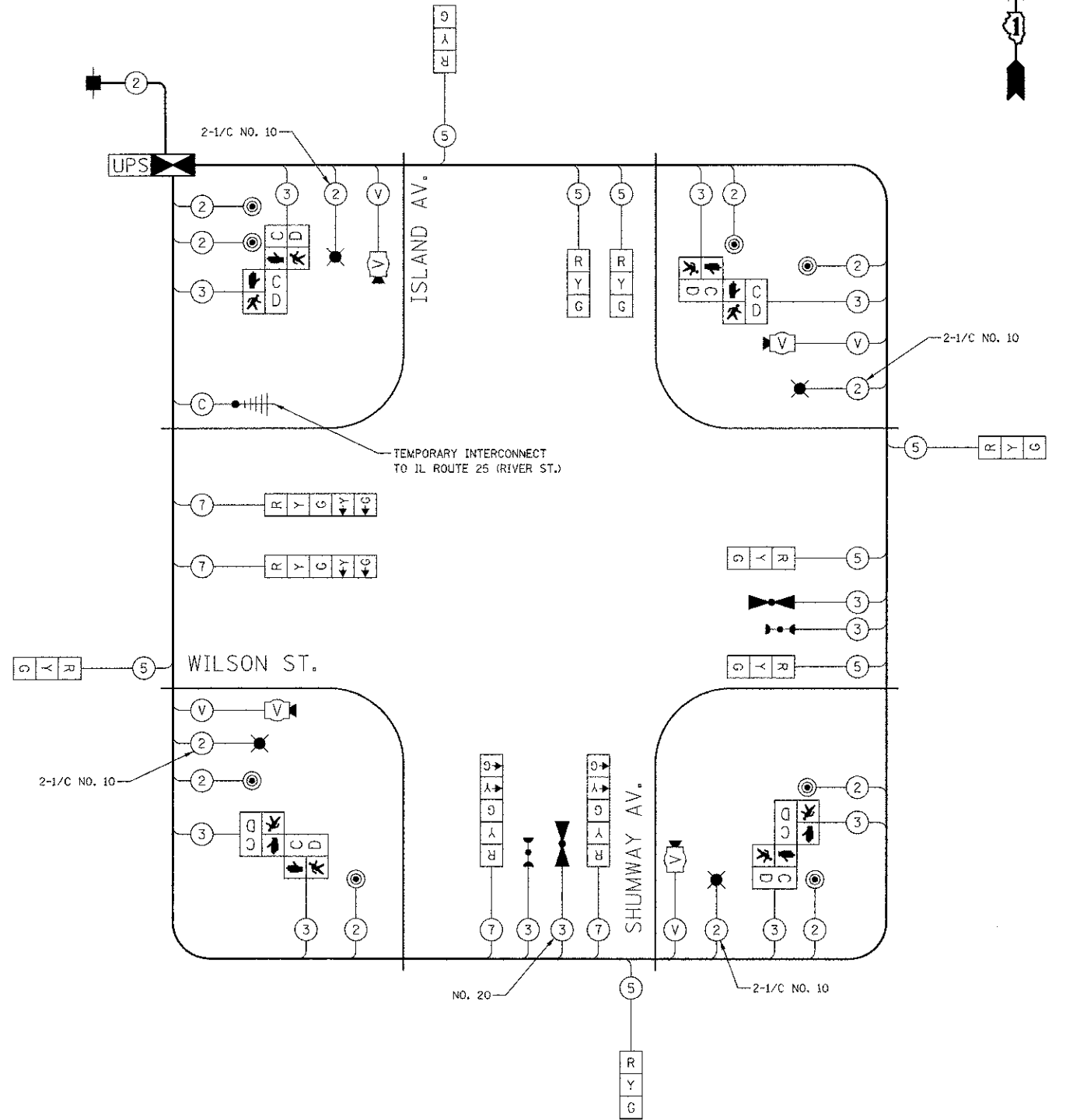


LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- ◇ OL OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

TEMPORARY PHASE DESIGNATION DIAGRAM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	12	INCAND.	17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	10
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
LUMINAIRES	4	250		0.50	500
FLASHER				0.50	
TOTAL =					1182

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: ELECTRIC DEPARTMENT  
PHONE: (630) 454-2350  
COMPANY: CITY OF BATAVIA

- NOTES FOR TEMPORARY COMBINATION LIGHTING
- TEMPORARY LIGHTING SHALL CONSIST OF 250W HPS MC-III COBRAHEADS ON 15' MAST ARMS MOUNTED ON THE TEMPORARY WOOD POLES FOR THE TEMPORARY TRAFFIC SIGNAL AS SHOWN ON THE TEMPORARY SIGNAL AND CABLE PLAN.
  - THE LUMINAIRES SHALL BE CONNECTED TO A SEPARATE 20 AMP CIRCUIT BREAKER IN THE TEMPORARY TRAFFIC SIGNAL CABINET. THE LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTIBLE POWER SUPPLY UNIT.
  - THE LUMINAIRES SHALL BE INDIVIDUALLY PHOTOCELL CONTROLLED.
  - ALL WORK REQUIRED TO FURNISH AND INSTALL TEMPORARY LIGHTING INCLUDING AERIAL CABLE 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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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



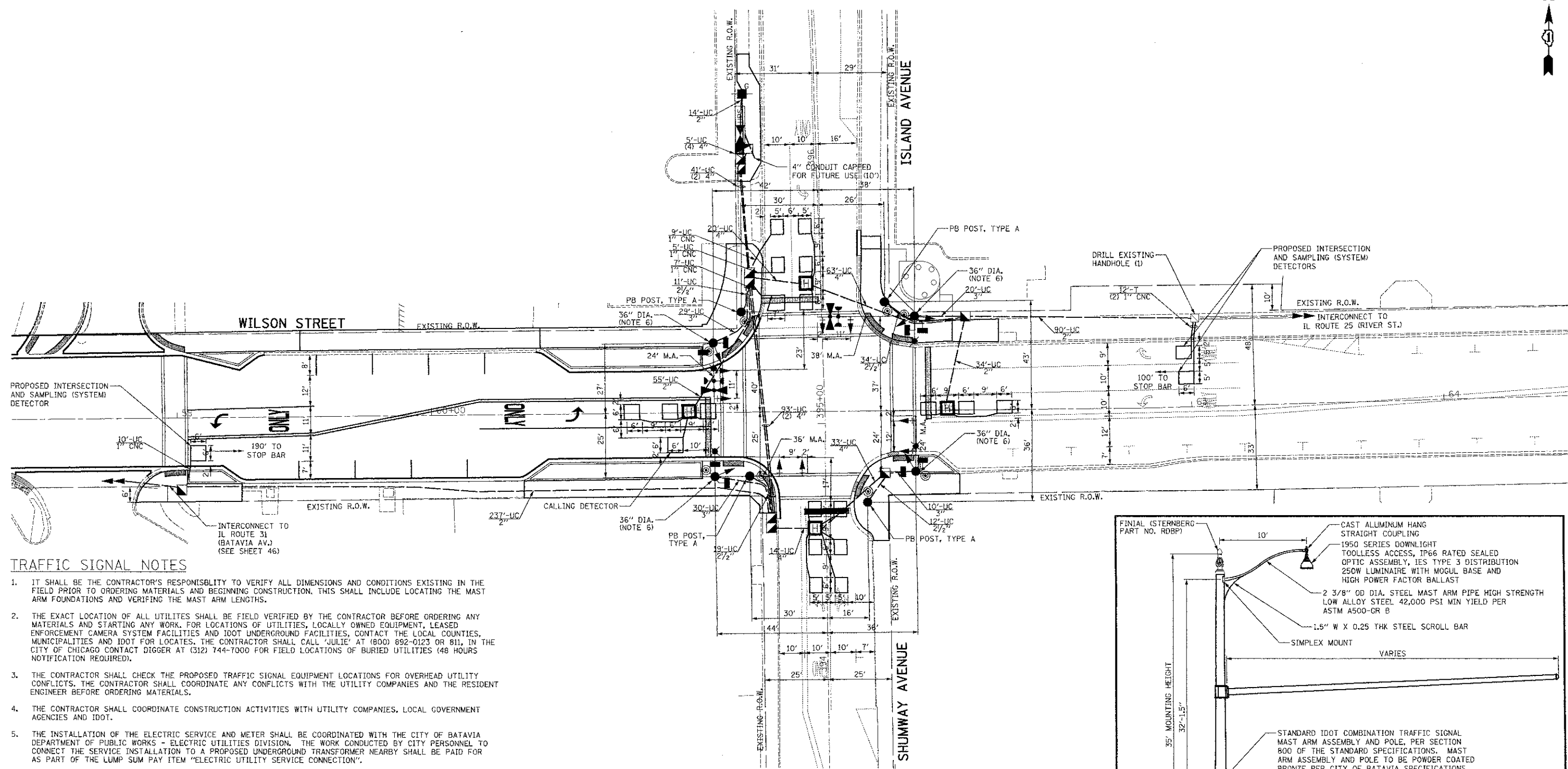
USER NAME = mfb  
DESIGNED - BRD  
DRAWN - OJT  
CHECKED - JJE  
DATE - 10/22/2012

REVISOR -  
REVISION -  
REVISION -  
REVISION -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

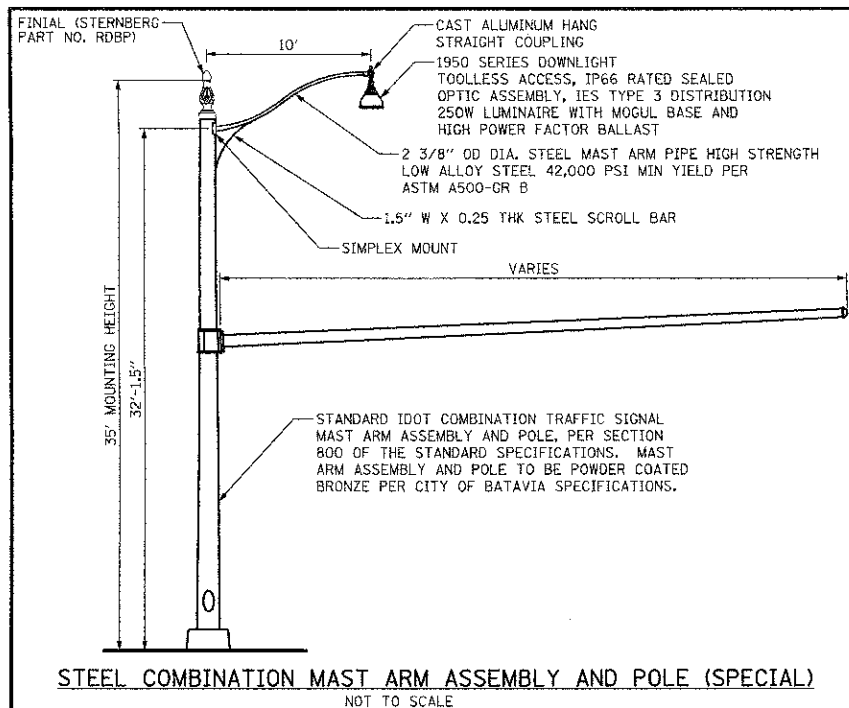
TEMPORARY CABLE PLAN, TEMPORARY SEQUENCE OF OPERATION, & TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
WILSON STREET AT ISLAND AVENUE / SHUMWAY AVENUE  
NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	43
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TRAFFIC SIGNAL NOTES**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- THE INSTALLATION OF THE ELECTRIC SERVICE AND METER SHALL BE COORDINATED WITH THE CITY OF BATAVIA DEPARTMENT OF PUBLIC WORKS - ELECTRIC UTILITIES DIVISION. THE WORK CONDUCTED BY CITY PERSONNEL TO CONNECT THE SERVICE INSTALLATION TO A PROPOSED UNDERGROUND TRANSFORMER NEARBY SHALL BE PAID FOR AS PART OF THE LUMP SUM PAY ITEM "ELECTRIC UTILITY SERVICE CONNECTION".
- ALL MAST ARM FOUNDATIONS SHALL BE DRILLED INTO THE EXISTING BEDROCK TO A TOTAL DEPTH OF 11 FEET. THIS WORK SHALL BE PAID FOR AS "CONCRETE FOUNDATION, (SPECIAL)".
- CONDUIT TRENCHING SHALL NOT BE PERFORMED WITHOUT PRIOR APPROVAL OF THE CITY OF BATAVIA. IF TRENCHING ACTIVITIES REQUIRE SIDEWALK REMOVAL AND REPLACEMENT AT LOCATIONS NOT INDICATED ON THE PLANS, THE SIDEWALK REMOVAL AND REPLACEMENT SHALL BE FOR THE FULL SIDEWALK WIDTH.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE SET AT NO MORE THAN THE MINIMUM HEIGHT ABOVE GRADE PERMITTED BY IDOT SPECIFICATIONS. FOUNDATIONS INSTALLED IN SIDEWALK AREAS SHALL BE FLUSH WITH THE FINISHED SIDEWALK.
- ALL TRAFFIC SIGNAL HEADS, PUSH-BUTTON HOUSINGS, PUSH-BUTTON SIGN FRAMES, POLE BRACKETS, LIGHT DETECTOR MOUNTING HARDWARE, AND BANDINGS SHALL BE BLACK TO MATCH CITY OF BATAVIA REQUIREMENTS.
- ALL TRAFFIC SIGNAL AND PUSH-BUTTON POST TOPS SHALL BE BRONZE TO MATCH THE CITY OF BATAVIA REQUIREMENTS.
- FINAL TRAFFIC SIGNAL FOUNDATION LOCATIONS SHALL BE APPROVED BY THE CITY OF BATAVIA PRIOR TO FOUNDATION INSTALLATION.
- FOR COMBINATION LIGHTING INSTALLATION, PLEASE REFER TO THE COMBINATION LIGHTING PLAN ON SHEET 58.



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.

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



USER NAME = pnd	DESIGNED - BRD	REVISED -
PLT SCALE = 20.0000' / 1"	DRAWN - OJT	REVISED -
PLT DATE = 11/26/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

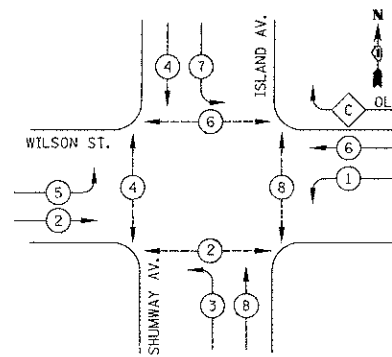
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN**  
**WILSON STREET AT ISLAND AVENUE /SHUMWAY AVENUE**

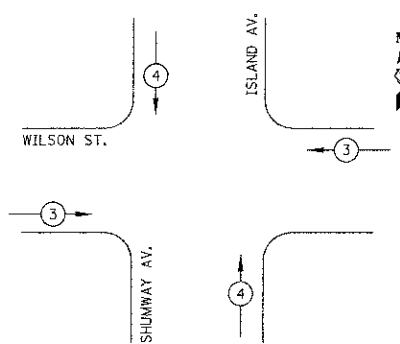
SCALE: 1"=20' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	44
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**

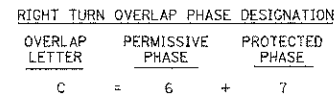


**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

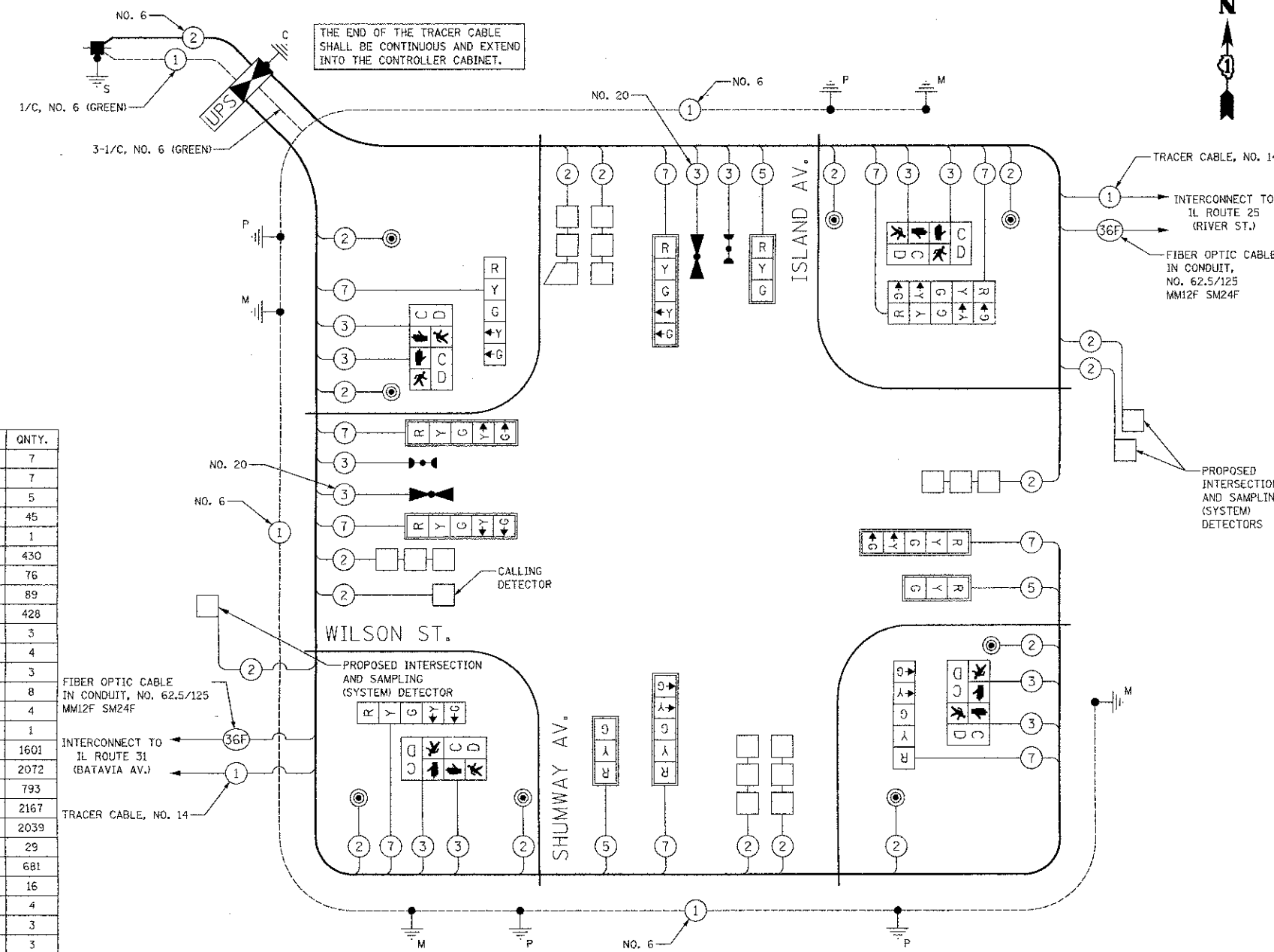
**PHASE DESIGNATION DIAGRAM**



**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
ROCK EXCAVATION	CU YD	7
TRENCH BACKFILL	CU YD	7
ROCK EXCAVATION FOR STRUCTURES	CU YD	5
SIGN PANEL - TYPE I	SQ FT	45
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	430
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	76
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	89
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	428
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
PAINT NEW TRAFFIC SIGNAL POST	EACH	8
PAINT NEW COMBINATION MAST ARM ASSEMBLY AND POLE, UNDER 40 FOOT	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1601
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2072
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	793
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2167
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2039
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	29
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	681
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	646
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	402
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
CONCRETE FOUNDATION, (SPECIAL)	FOOT	44
PEDESTRIAN PUSHBUTTON POST, TYPE A	EACH	4

FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F SM24F  
 INTERCONNECT TO IL ROUTE 31 (BATAVIA AV.)  
 TRACER CABLE, NO. 14



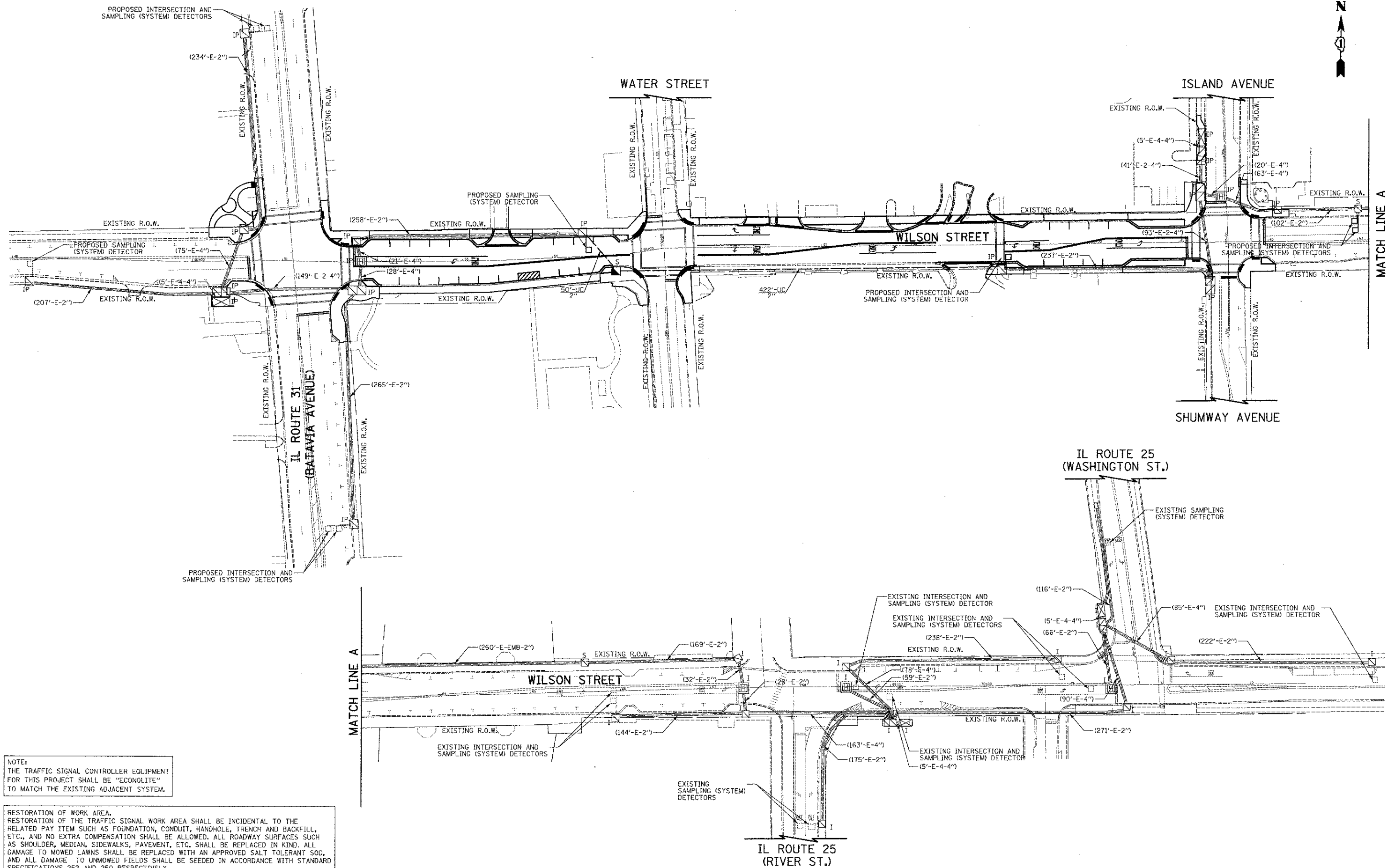
**CABLE PLAN**  
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	13	INCAND.	17	0.50	111
	13	LED	25	0.25	81
	13	LED	15	0.25	49
ARROW	20	LED	12	0.10	24
PED. SIGNAL	8	LED	25	1.00	200
CONTROLLER	1	LED	100	1.00	100
TOTAL =					565

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096  
 ENERGY SUPPLY: CONTACT: ELECTRIC DEPARTMENT  
 PHONE: (630) 454-2350  
 COMPANY: CITY OF BATAVIA

**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 SOO, 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 "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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

RESTORATION OF WORK AREA.  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH 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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



USER NAME = bpd  
 PLOT DATE = 11/28/2012

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

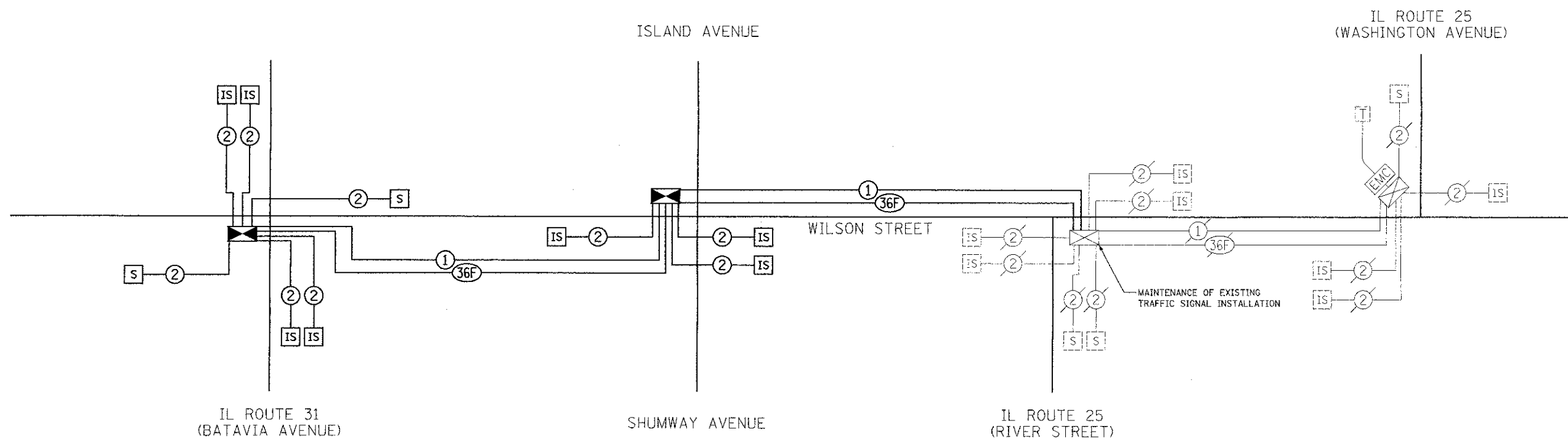
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN  
 IL ROUTE 31 (BATAVIA AV.) AT IL ROUTE 25 (WASHINGTON AV.)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	46
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	472
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2386
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	926
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2432
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	937
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1



USER NAME = brd	DESIGNED - BRD	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 50,000' / 1" =	CHECKED - JJE	REVISED -
PLOT DATE = 11/20/2012	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC  
IL ROUTE 31 (BATAVIA AV.) TO IL ROUTE 25 (WASHINGTON ST.)

NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	47
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

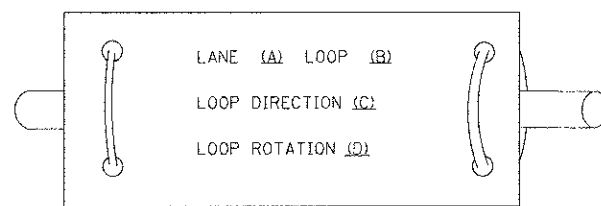




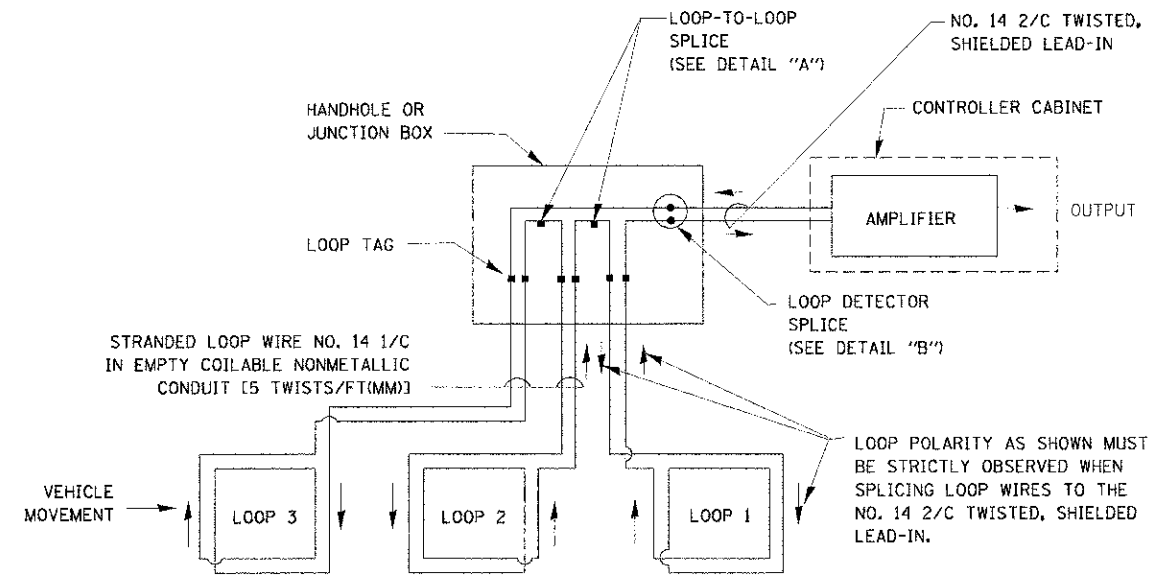
**LOOP DETECTOR NOTES**

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

**LOOP LEAD-IN CABLE TAG**

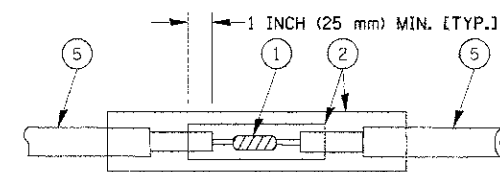


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

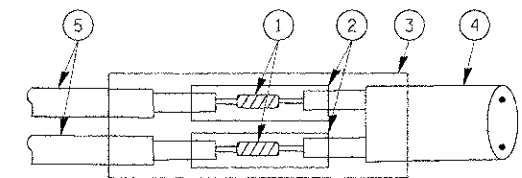


**DETECTOR LOOP WIRING SCHEMATIC**

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

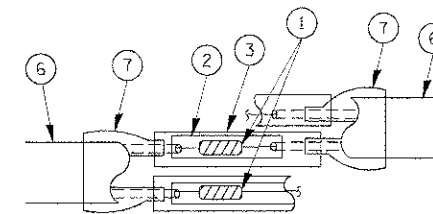


**DETAIL "A" LOOP-TO-LOOP SPLICE**

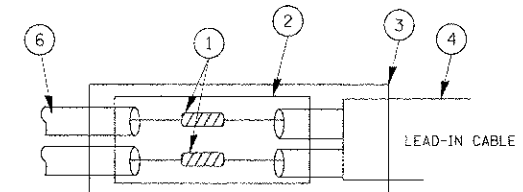


**DETAIL "B" LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



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



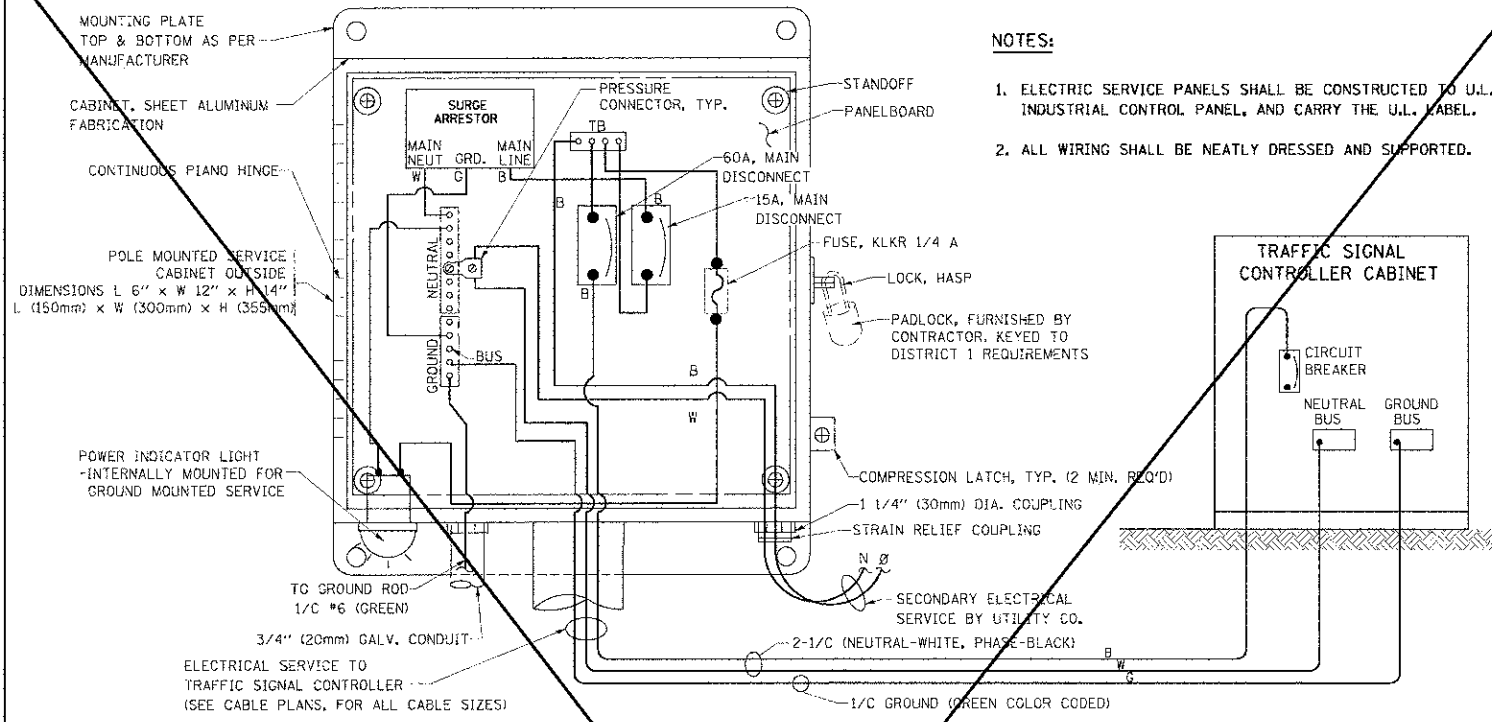
**DETAIL "B" LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

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

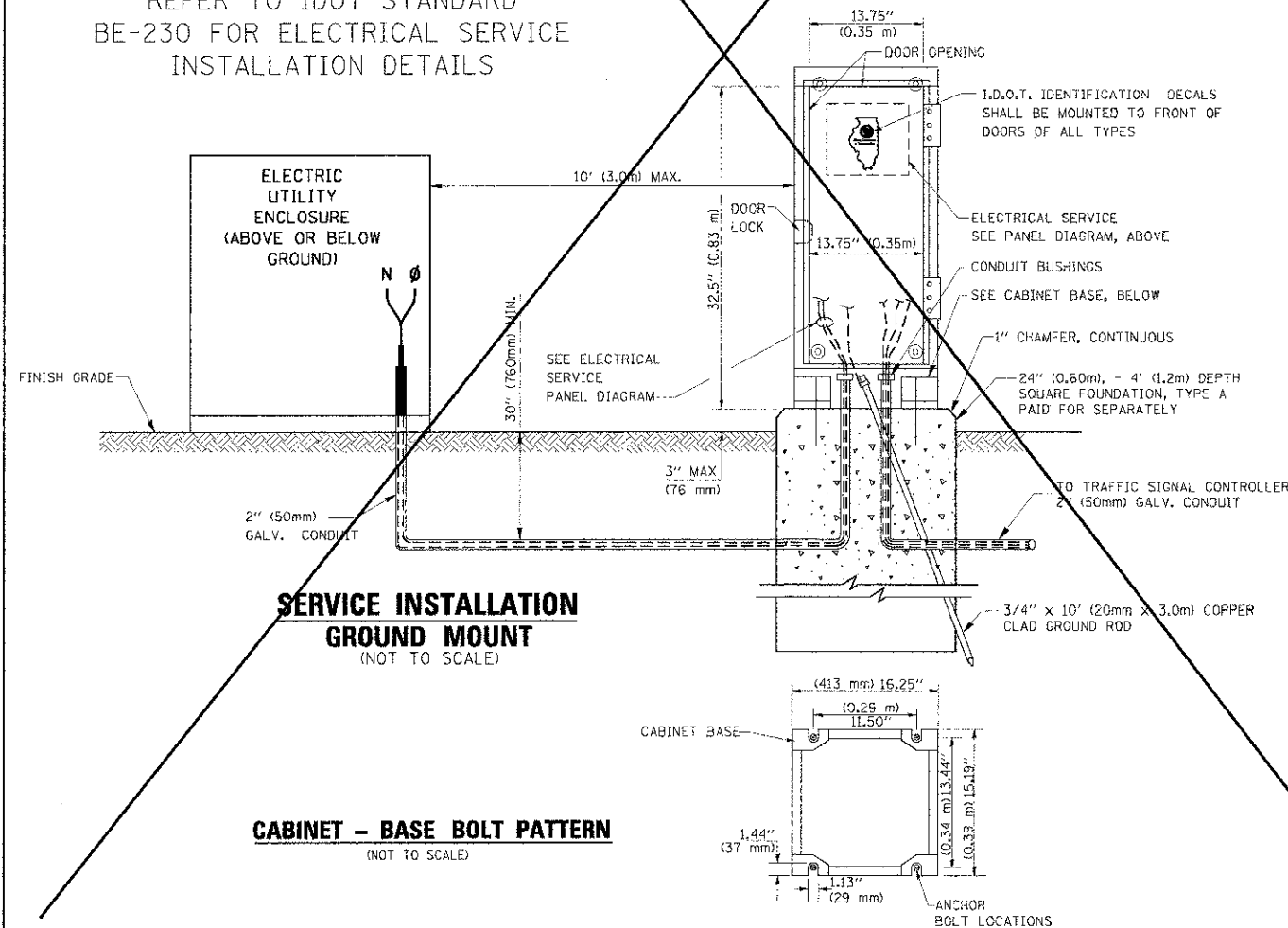
FILE NAME: ut\p\work\DW\DOT\K9\ThePhis\00C\489128	USER NAME: k9\the\k9\k9	DESIGNED: DAD	REVISED:	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.U. RTE. 2503	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 49
	PLLOT SCALE = 30.0000' / 1" IN.	CHECKED: DAD	REVISED:		SCALE:	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	CONTRACT NO. 63763			
	PLLOT DATE = 10/28/09	DATE: 10/28/09	REVISED:		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



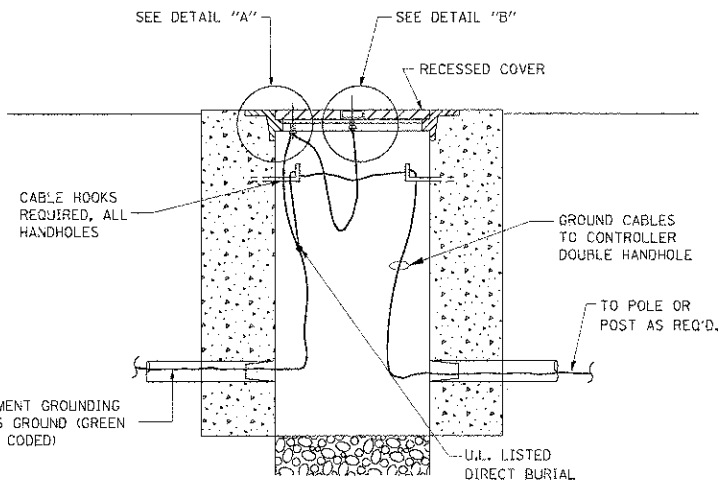
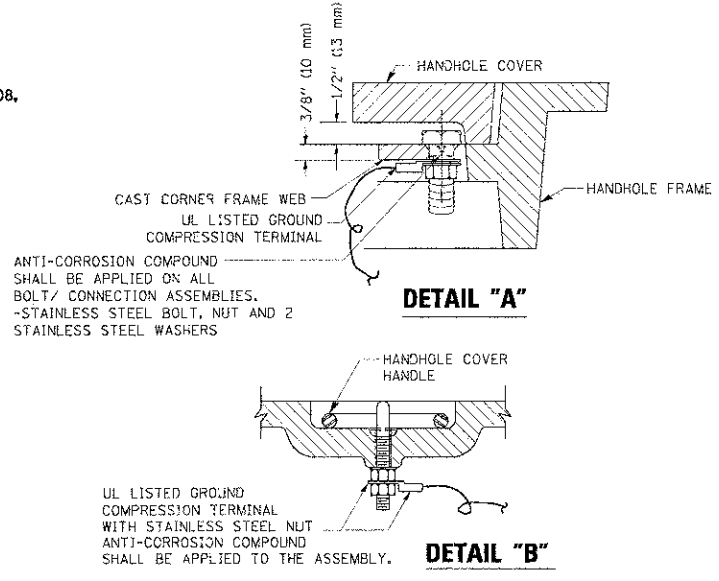


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

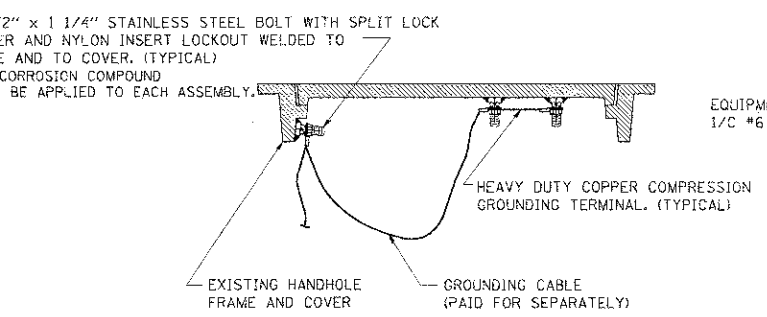
REFER TO IDOT STANDARD BE-230 FOR ELECTRICAL SERVICE INSTALLATION DETAILS



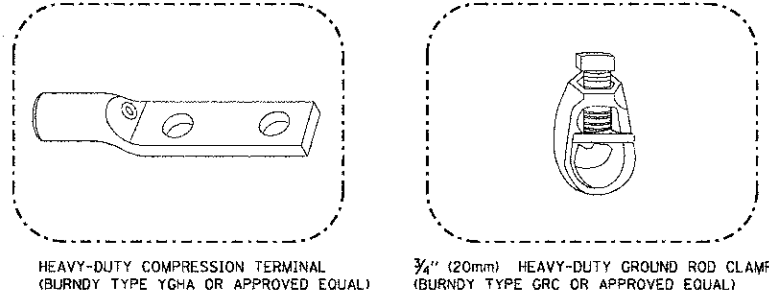
- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
  2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



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

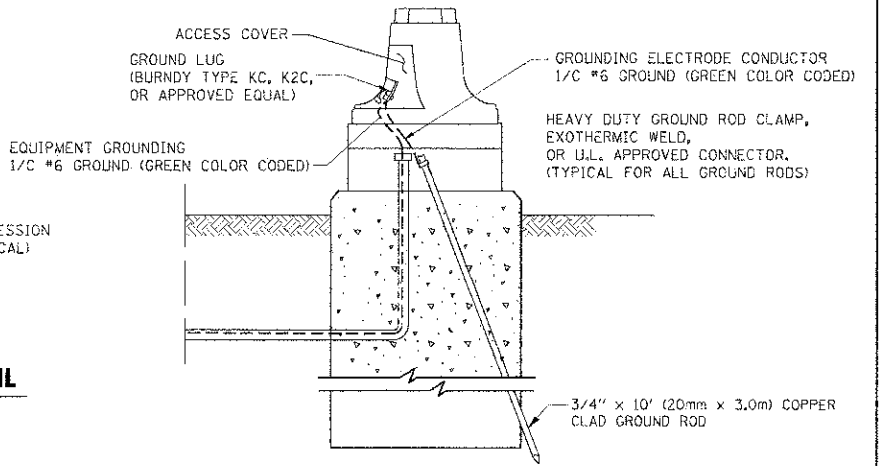


**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)



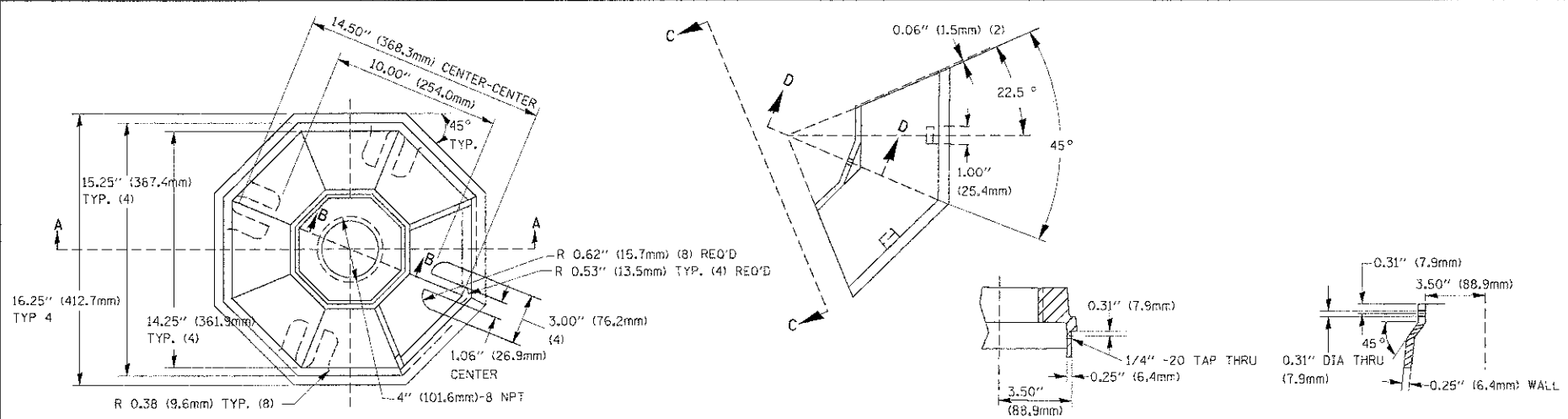
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)  
 3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

- 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.



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

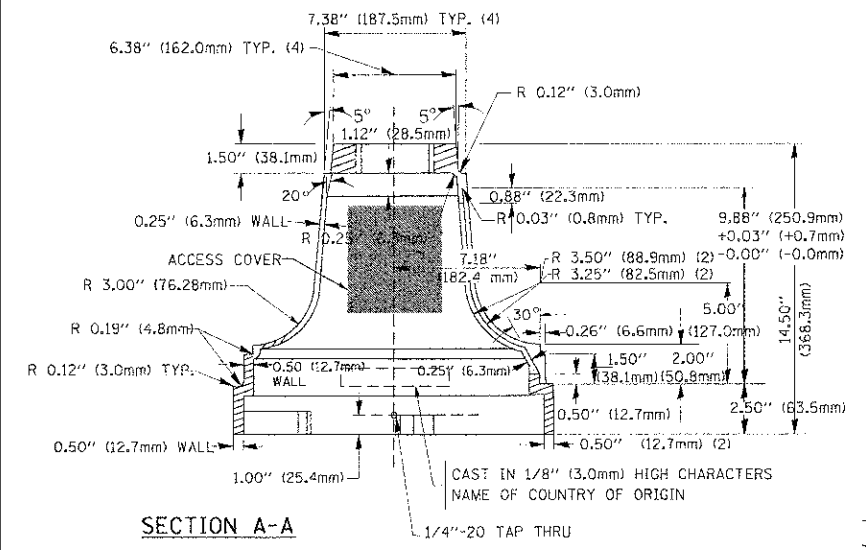
FILE NAME : c:\pwworkspace\DWIDOT\CONTRAP\2009\B01126	USER NAME : kathphuraygo	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE. 2503	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 51	
PLT SCALE = 20.0000 / 1/8"	PLT DATE = 10/22/09	DRAWN - BCK	REVISED -			SCALE:	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT
		CHECKED - DAD	REVISED -							CONTRACT NO. 63763	
		DATE - 10/28/09	REVISED -								



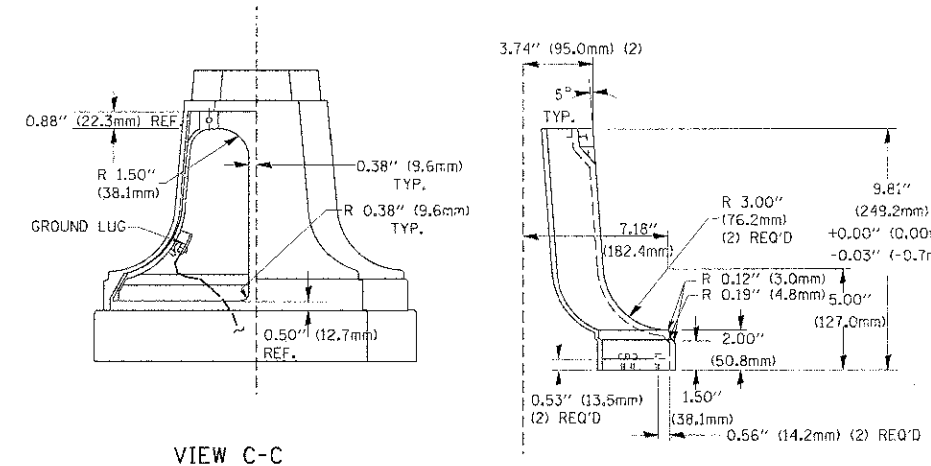
TOP VIEW

SECTION B-B

SECTION D-D

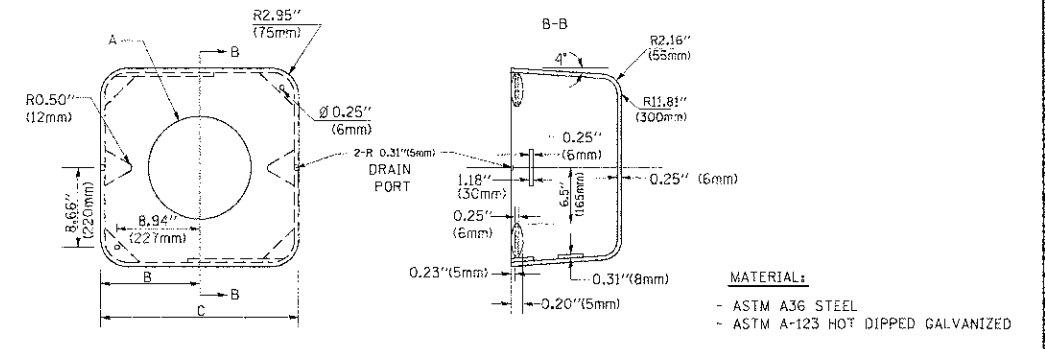


SECTION A-A



VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

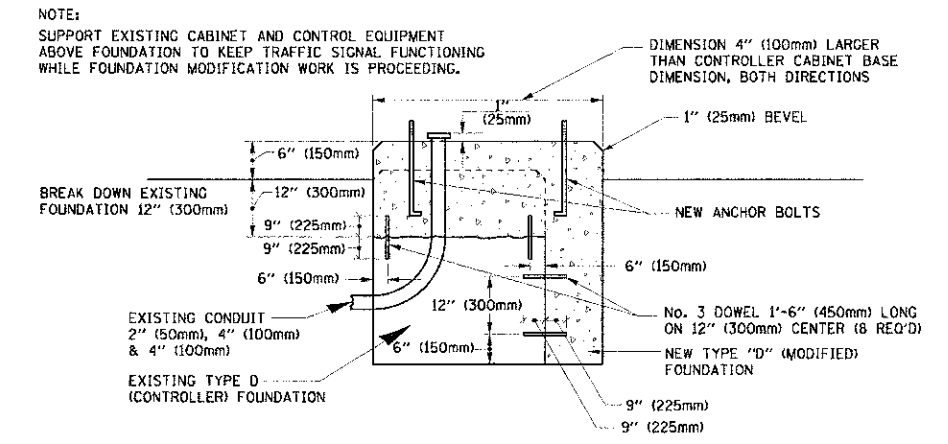


A	B	C	HEIGHT	WEIGHT
VARIES	9.5\"(241mm)	19\"(483mm)	7\"(178mm) - 12\"(300mm)	53 lbs (24kg)
VARIES	10.75\"(273mm)	21.5\"(546mm)	7\"(178mm) - 12\"(300mm)	68 lbs (31 kg)
VARIES	13.0\"(330mm)	26\"(660mm)	7\"(178mm) - 12\"(300mm)	81 lbs (37 kg)
VARIES	18.5\"(470mm)	37\"(940mm)	7\"(178mm) - 12\"(300mm)	126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

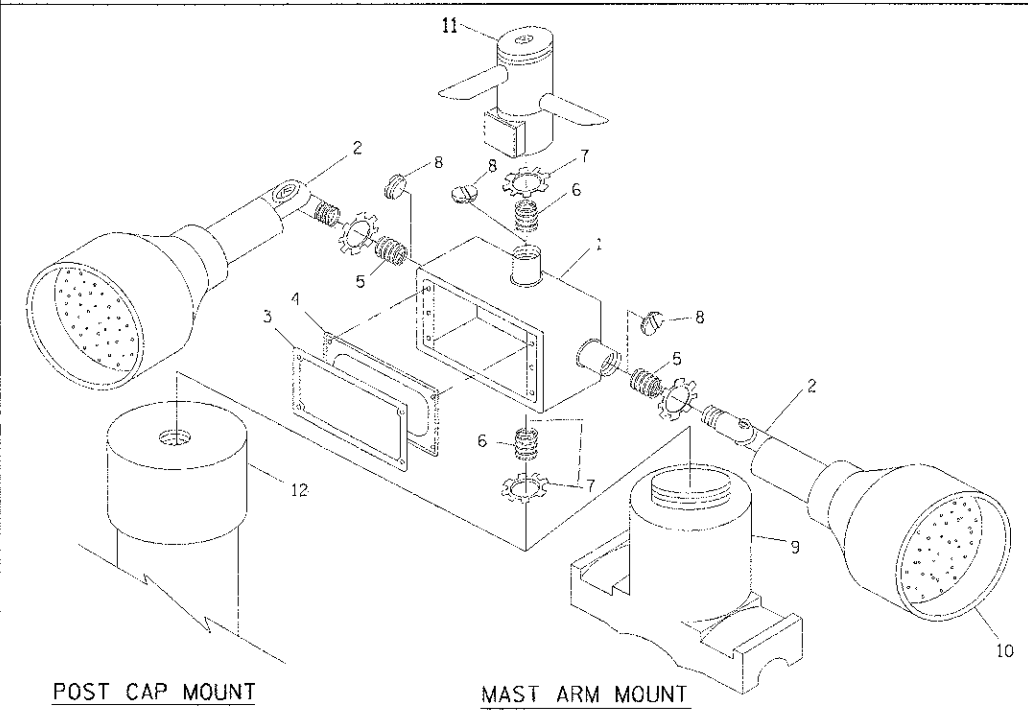
SHROUD

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 VERIFY 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.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

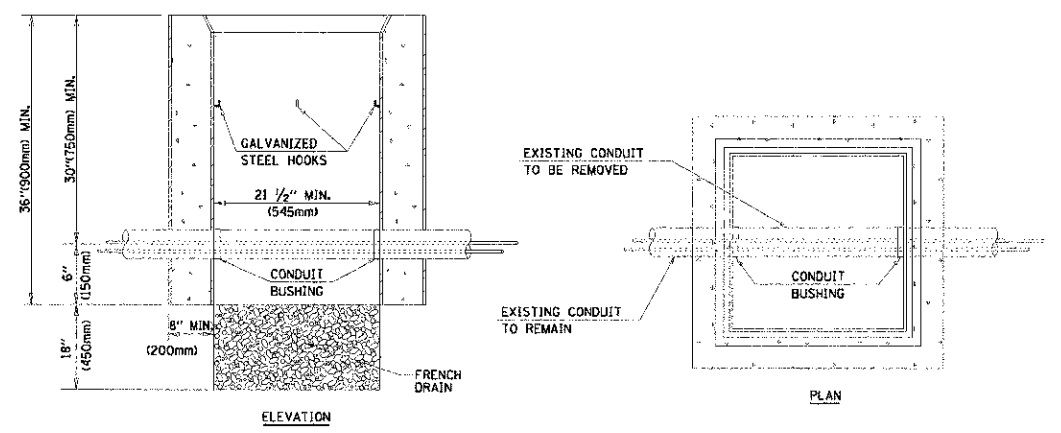
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- 02/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 3/4\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

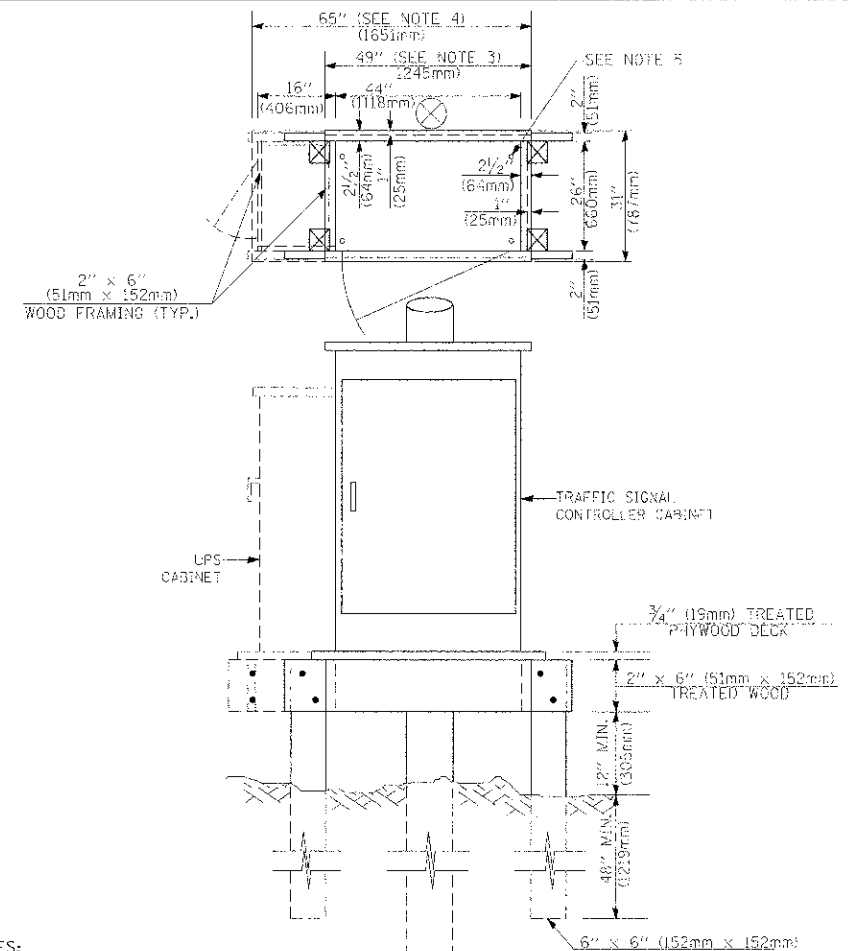
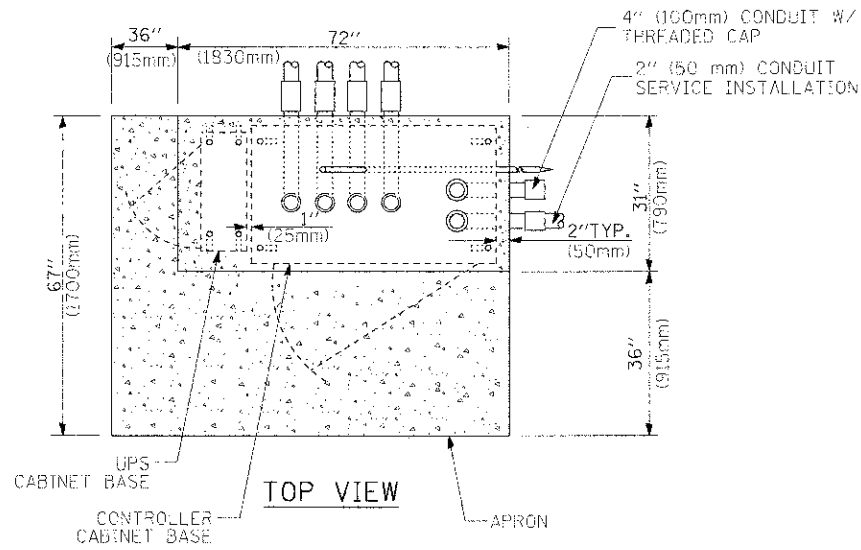
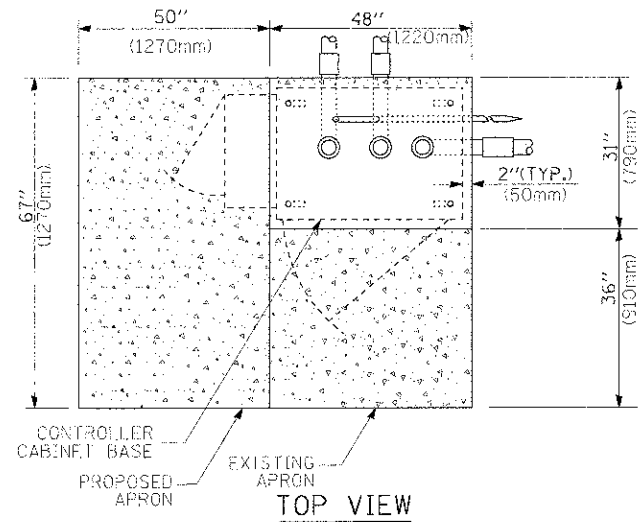


NOTES:

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.

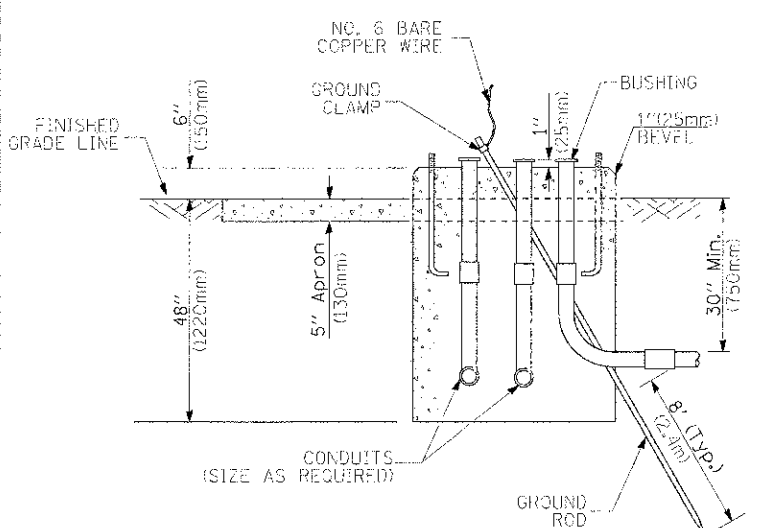
HANDHOLE TO INTERCEPT EXISTING CONDUIT



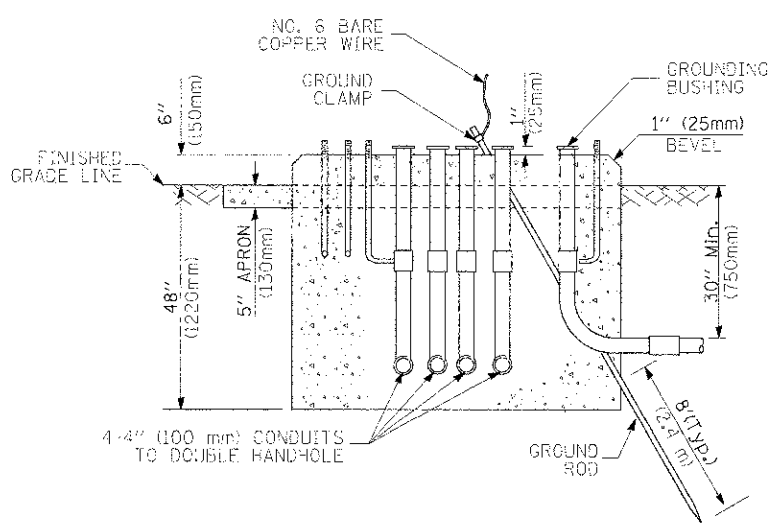


- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET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

**TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM**



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



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

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	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 ( $Q_u$ ) > 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.

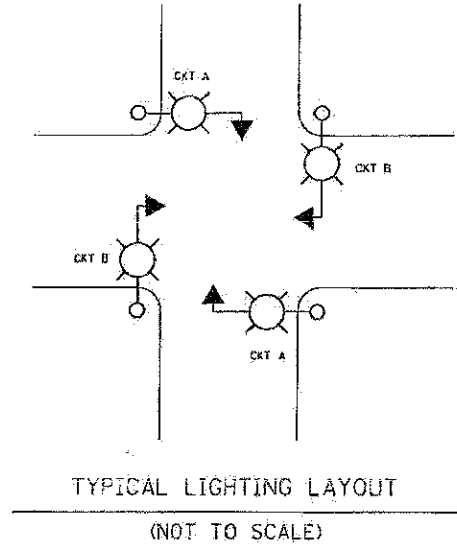
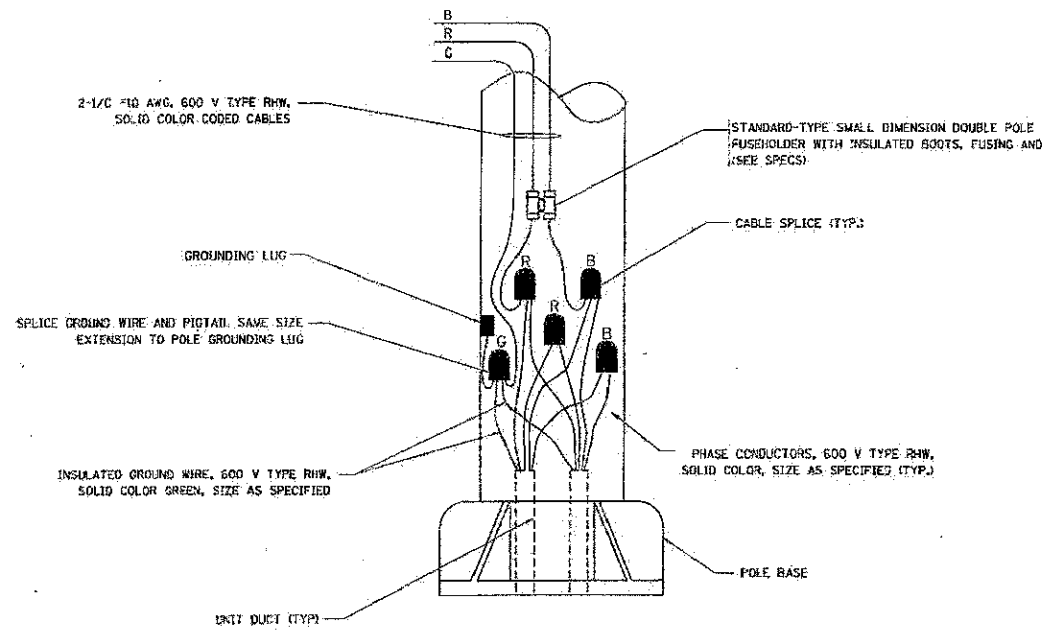
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

# TRAFFIC SIGNAL LEGEND

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

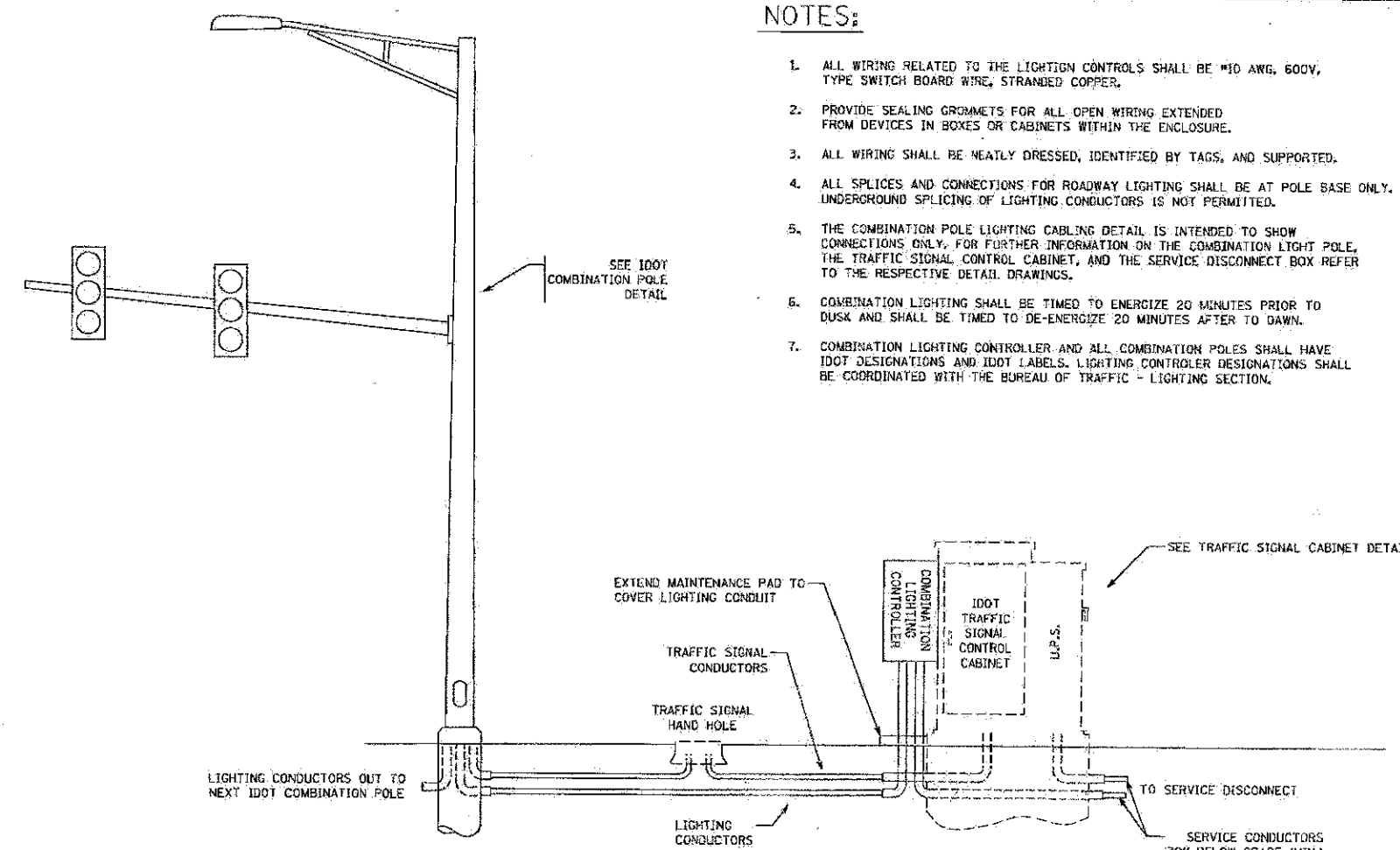
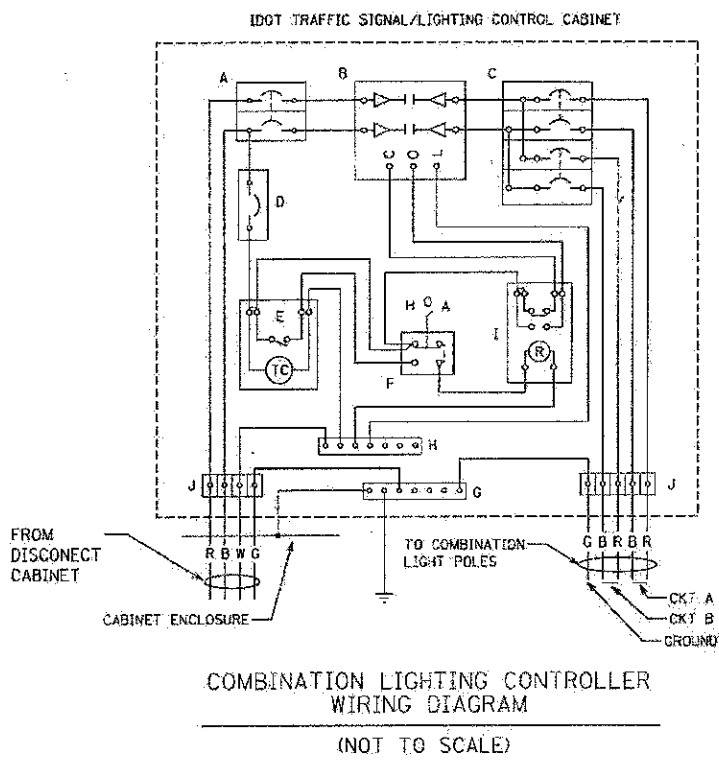
PANEL EQUIPMENT

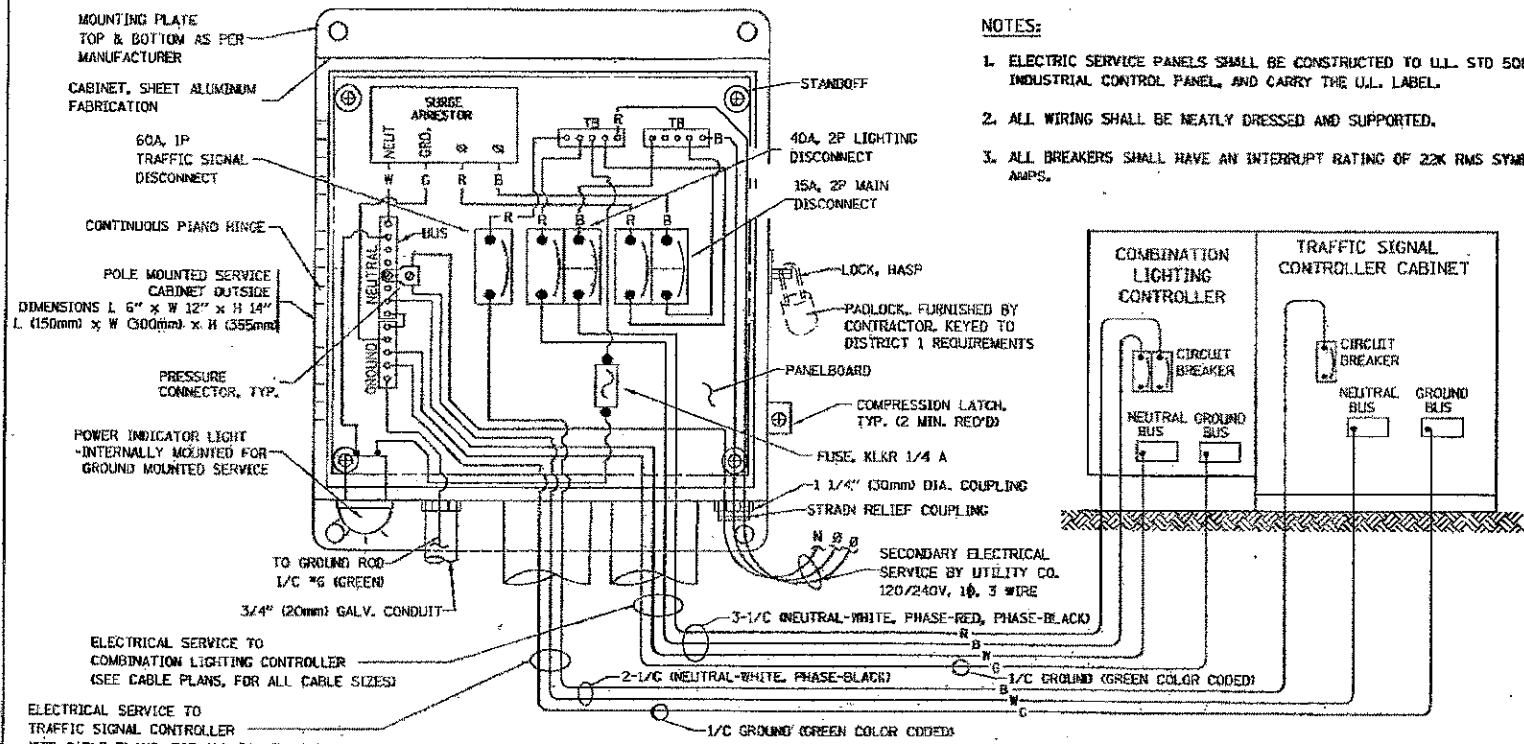
BILL OF MATERIALS		
ITEM	QUANTITY	DESCRIPTION
A	1	CIRCUIT BREAKER, THERMAL MAGNETIC MOLDED CASE, 2 POLE, 240 VOLT 100 AMP FRAME, 30 AMP TRIP, INTERRUPTING RATING 22K RMS SYMMETRICAL AMP
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 30 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	2	CIRCUIT BREAKERS, 2 POLE, 100 AMP. FRAME 20 AMP. NON-INTERCHANGABLE TRIP INTERRUPTING RATING NEMA 10,000 AMP AT 240 V.
D	1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 100 AMP FRAME, 15 AMP NON-INTERCHANGABLE TRIP, INTERRUPTING RATING 22K RMS SYMMETRICAL AMP AT 240V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH)
F	1	H-O-A SWITCH
G	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
H	1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
I	1	RELAY, 2 POLE, SINGLE THROW, 120 VOLT COIL, CURRENT RATING TO BE COORDINATED WITH CONTACTOR
J	2	TERMINAL BLOCK



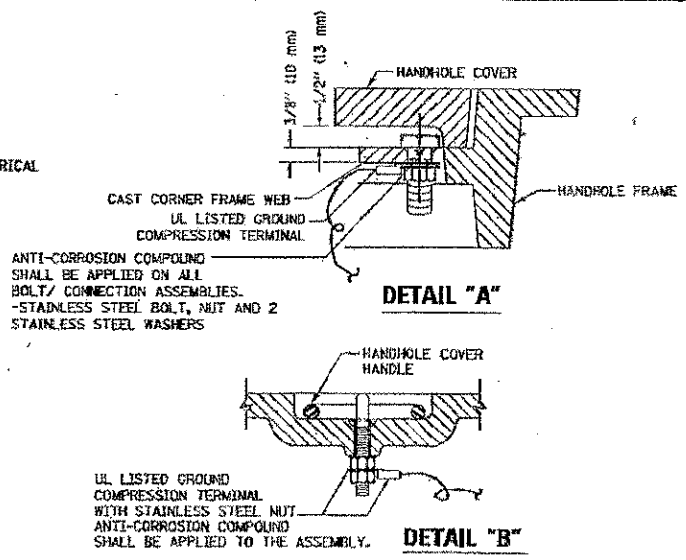
NOTES:

- ALL WIRING RELATED TO THE LIGHTING CONTROLS SHALL BE #10 AWG, 600V, TYPE SWITCH BOARD WIRE, STRANDED COPPER.
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE ENCLOSURE.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY. UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED.
- THE COMBINATION POLE LIGHTING CABLING DETAIL IS INTENDED TO SHOW CONNECTIONS ONLY. FOR FURTHER INFORMATION ON THE COMBINATION LIGHT POLE, THE TRAFFIC SIGNAL CONTROL CABINET, AND THE SERVICE DISCONNECT BOX REFER TO THE RESPECTIVE DETAIL DRAWINGS.
- COMBINATION LIGHTING SHALL BE TIMED TO ENERGIZE 20 MINUTES PRIOR TO DUSK AND SHALL BE TIMED TO DE-ENERGIZE 20 MINUTES AFTER TO DAWN.
- COMBINATION LIGHTING CONTROLLER AND ALL COMBINATION POLES SHALL HAVE IDOT DESIGNATIONS AND IDOT LABELS. LIGHTING CONTROLLER DESIGNATIONS SHALL BE COORDINATED WITH THE BUREAU OF TRAFFIC - LIGHTING SECTION.

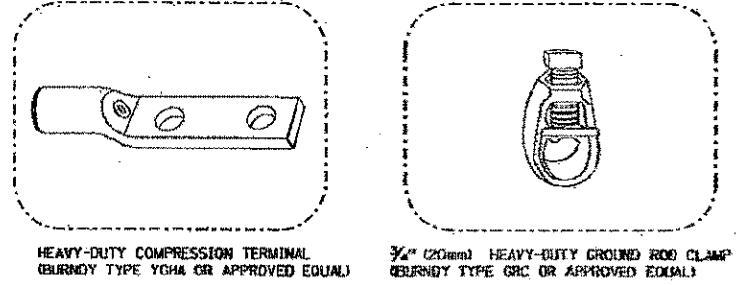
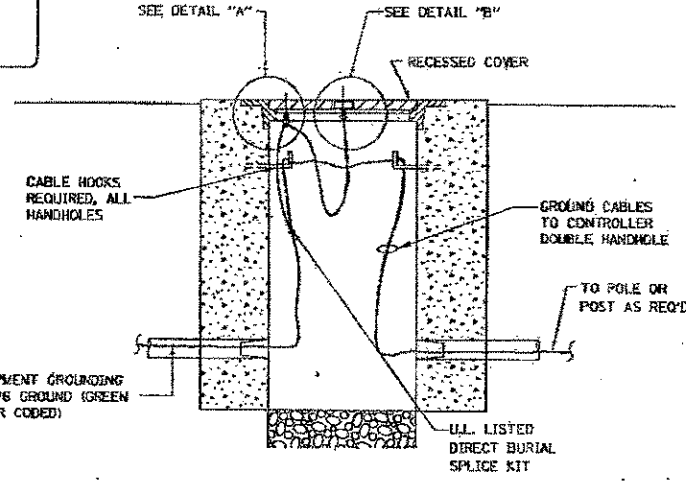




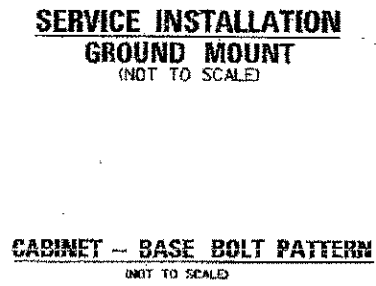
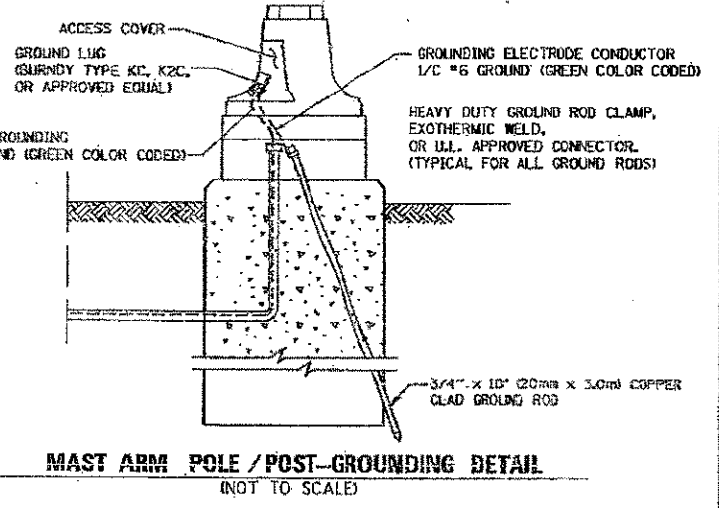
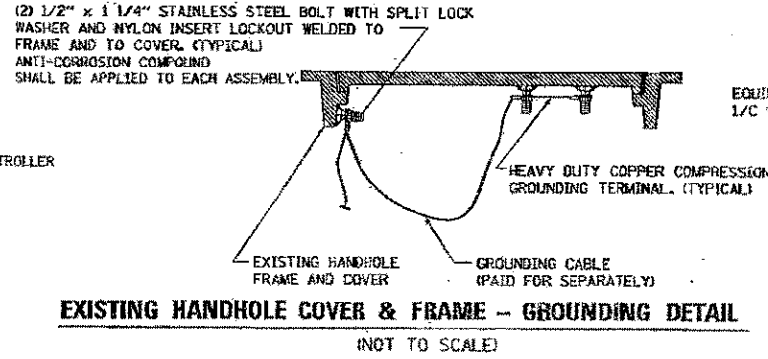
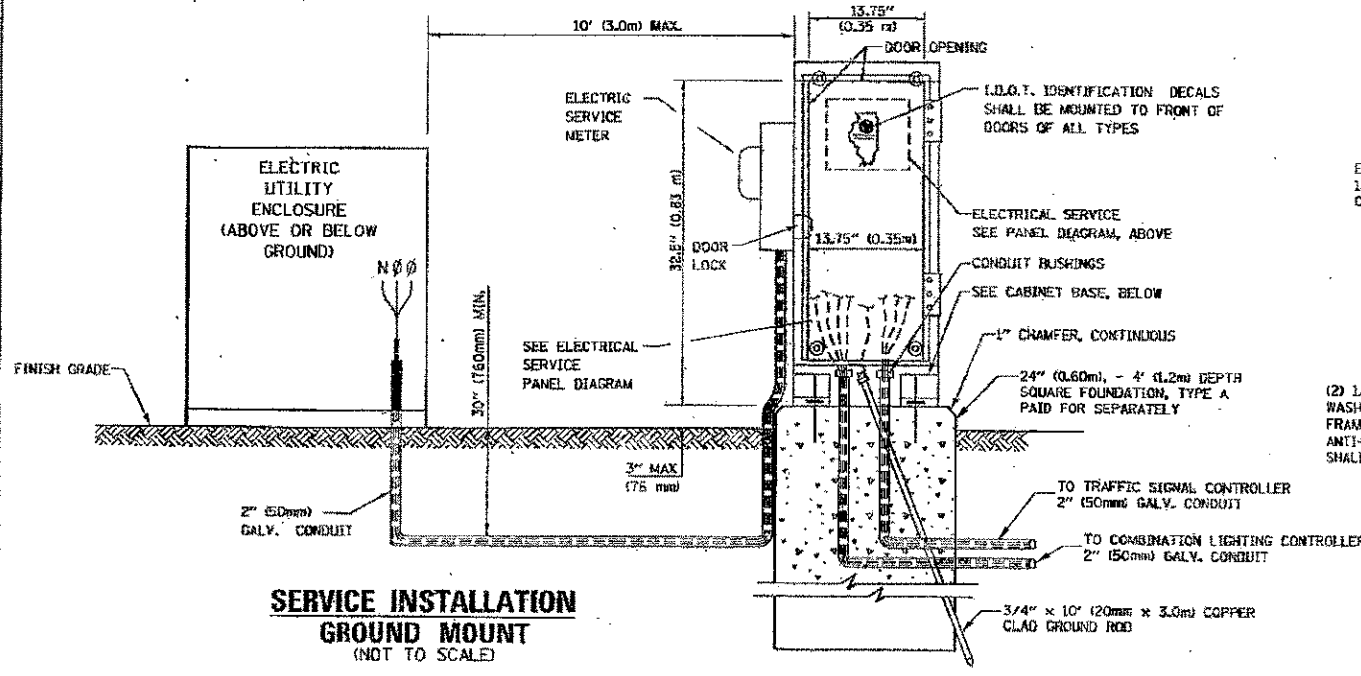
- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
  2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
  3. ALL BREAKERS SHALL HAVE AN INTERRUPT RATING OF 22K RMS SYMMETRICAL AMPS.



- 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) 705-4135.
  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.



- 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' (1.5m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



FILE NAME =	USER NAME = goulterme	DESIGNED - DAD	REVISED - MAP
PROJECT NAME = Standard Signal Pole Mount	DATE = 8/24/11	DRAWN - BCK	REVISED -
PLT SCALE = 1/8" = 1'-0"	CHECKED - DAD	DATE = 8/24/11	REVISED -
PLT DATE = 9/28/2011			REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 1  
STANDARD COMBINATION LIGHTING DISCONNECT

F.A.U. RITE 2503	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 56
SCALE: SHEET NO. 7 OF 7 SHEETS		STA. TO STA.	CONTRACT NO. 63763	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

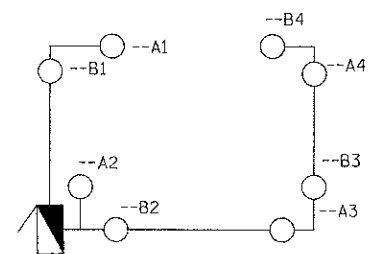
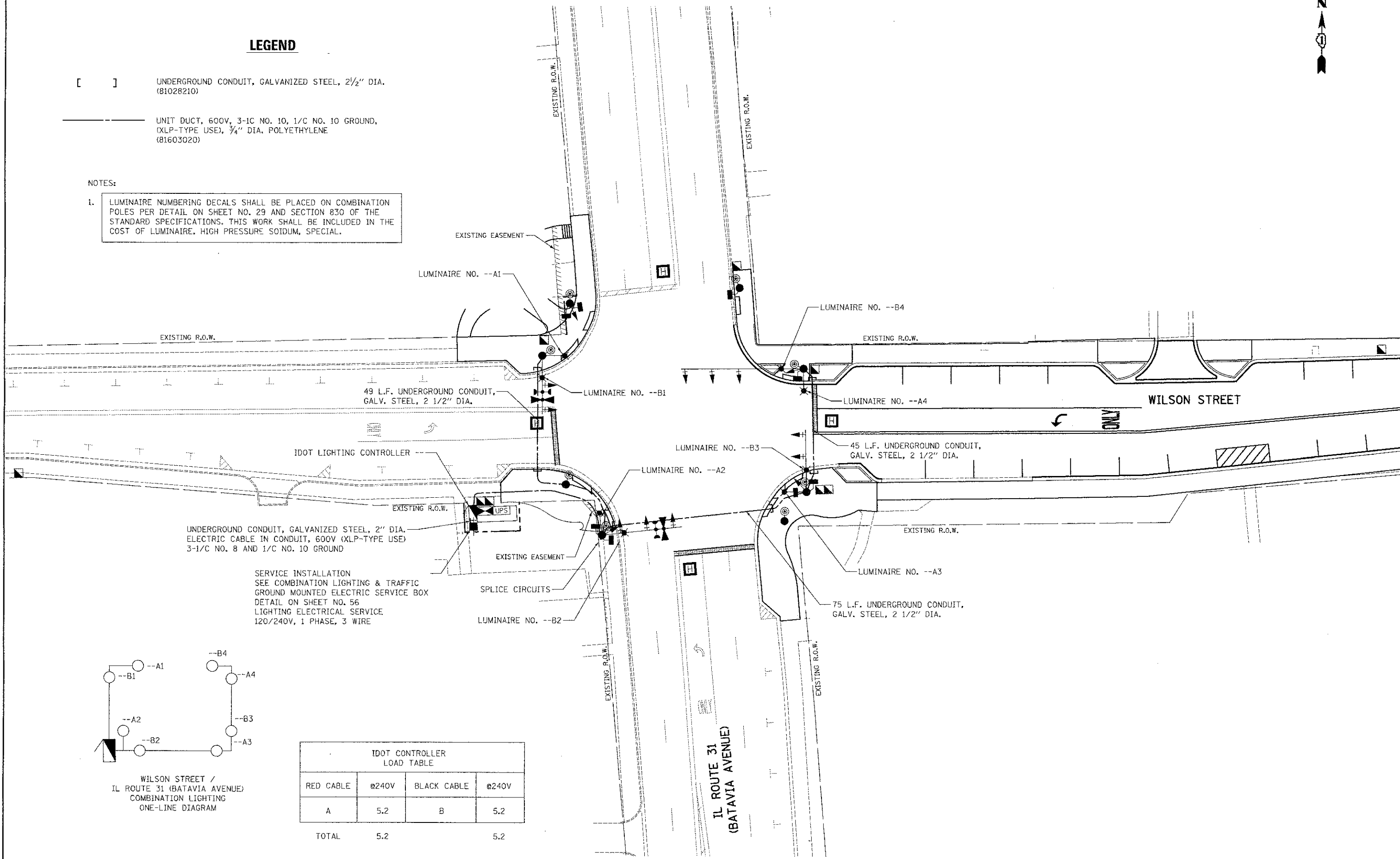


**LEGEND**

- [ ] UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)
- UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE (81603020)

NOTES:

1. LUMINAIRE NUMBERING DECALS SHALL BE PLACED ON COMBINATION POLES PER DETAIL ON SHEET NO. 29 AND SECTION 830 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF LUMINAIRE, HIGH PRESSURE SODIUM, SPECIAL.



WILSON STREET /  
IL ROUTE 31 (BATAVIA AVENUE)  
COMBINATION LIGHTING  
ONE-LINE DIAGRAM

SERVICE INSTALLATION  
SEE COMBINATION LIGHTING & TRAFFIC  
GROUND MOUNTED ELECTRIC SERVICE BOX  
DETAIL ON SHEET NO. 56  
LIGHTING ELECTRICAL SERVICE  
120/240V, 1 PHASE, 3 WIRE

IDOT CONTROLLER LOAD TABLE			
RED CABLE	Ø240V	BLACK CABLE	Ø240V
A	5.2	B	5.2
TOTAL	5.2		5.2



USER NAME = brd	DESIGNED - BRD	REVISED -
PLDT SCALE = 20,000' / 1"	DRAWN - OJT	REVISED -
PLDT DATE = 11/28/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMBINATION LIGHTING PLAN  
WILSON STREET AT IL ROUTE 31 (BATAVIA AVENUE)

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

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 57
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

[ ] UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)

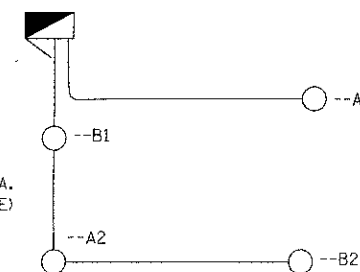
----- UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE (81603020)

**NOTES:**

- LUMINAIRE NUMBERING DECALS SHALL BE PLACED ON COMBINATION POLES PER DETAIL ON SHEET NO. 29 AND SECTION 830 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF LUMINAIRE, HIGH PRESSURE SODIUM, SPECIAL.

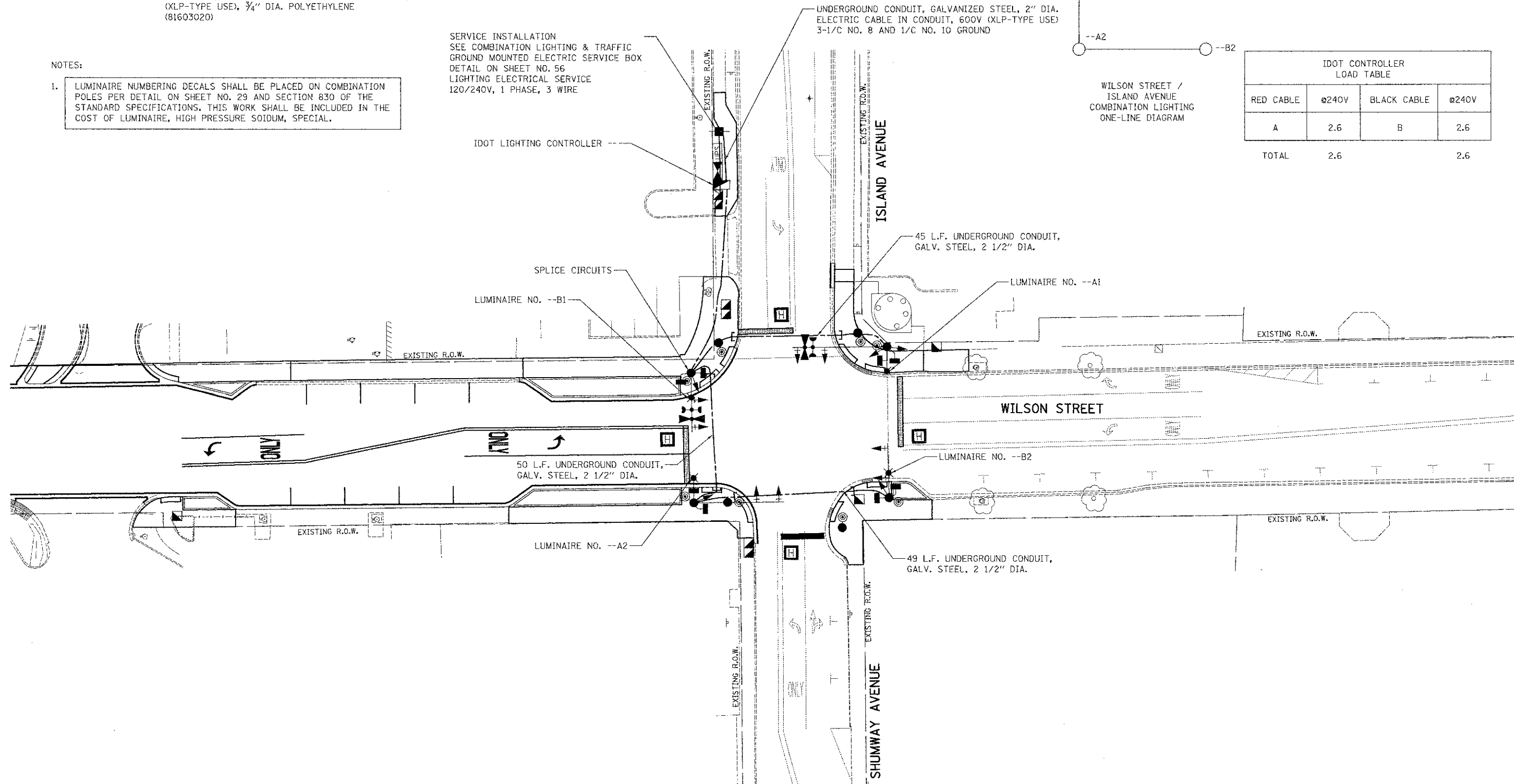
SERVICE INSTALLATION  
SEE COMBINATION LIGHTING & TRAFFIC  
GROUND MOUNTED ELECTRIC SERVICE BOX  
DETAIL ON SHEET NO. 56  
LIGHTING ELECTRICAL SERVICE  
120/240V, 1 PHASE, 3 WIRE

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.  
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE)  
3-1/C NO. 8 AND 1/C NO. 10 GROUND



WILSON STREET /  
ISLAND AVENUE  
COMBINATION LIGHTING  
ONE-LINE DIAGRAM

IDOT CONTROLLER LOAD TABLE			
RED CABLE	@240V	BLACK CABLE	@240V
A	2.6	B	2.6
TOTAL		2.6	



USER NAME = brd	DESIGNED - BRD	REVISED -
	DRAWN - QJT	REVISED -
PLOT SCALE = 20,000 / 1" =	CHECKED - JJE	REVISED -
PLOT DATE = 11/28/2012	DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMBINATION LIGHTING PLAN  
WILSON STREET AT ISLAND AVENUE / SHUMWAY AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	58
CONTRACT NO. 63763				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

## LIGHTING GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE CITY OF BATAVIA BEFORE THE START OF WORK, ANY COST FOR PERMIT SHALL BE INCIDENTAL.
2. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT (800) 892-0123.
3. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD AND UNDERGROUND ELECTRIC UTILITIES SHALL CALL LOCAL ELECTRIC UTILITY FOR LOCATION APPROVAL AND MINIMUM CLEARANCE REQUIREMENTS.
4. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED.
5. ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS PREPARED BY IDOT.
  - B. "THE NATIONAL ELECTRICAL CODE".
  - C. MUNICIPAL CODES & STANDARDS.
8. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.
9. CAST A GROUND ROD INSIDE EVERY CONCRETE POLE FOUNDATION AND CONNECT TO THE POLE GROUNDING LUG VIA A #6 SOLID COPPER WIRE WITH A MECHANICAL CONNECTION AT THE GROUND ROD AND PIGTAIL SPLICE INSIDE THE POLE HANDHOLE.
10. THE INSTALLATION OF BURIED WARNING TAPE, SPECIFIED AS PART OF TRENCH FOR UNDERGROUND CONDUITS, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
11. THE CONTRACTOR SHALL LABEL ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY CONTROLLER, POLE BASE, HAND HOLE AND SPLICE/CONNECTION POINT. WIRE MARKERS SHALL BE MECHANICALLY FASTENED WHITE PLASTIC, TYPE "PLM" AS MANUFACTURED BY PANDUIT OR APPROVED EQUAL.
12. ALL UNDERGROUND CONDUIT SHALL BE SCH 40 PVC BURIED TO MINIMUM 30 INCHES BELOW FINISHED GRADE UNLESS OTHERWISE SHOWN.
13. ALL UNDERGROUND WIRING SHALL BE MINIMUM #8 COPPER (OR SIZE AS SHOWN ON THE PLANS) XLP TYPE-USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN CONDUIT.
14. LUMINAIRES SHALL BE LEVEL & HAVE A TIGHT FIT ON MAST ARMS TO THE ENGINEER'S SATISFACTION. THIS WORK SHALL INCLUDE FIELD ADJUSTING OF THE LUMINAIRE WHICH WILL BE INCIDENTAL TO THE COST OF THE CONTRACT.
15. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, (IF APPLICABLE) AND HAVE BEEN REVIEWED BY THE ENGINEER.
16. TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES.
17. ALL POLE HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE TOP OF FOUNDATION ELEVATION WITH THE FINISHED GRADE.
19. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
20. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. ALL UTILITIES SHALL BE LOCATED PRIOR TO MARKING PROPOSED LOCATIONS.
21. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHT POLES, UNDERGROUND CONDUITS/WIRING, HANDHOLES, JUNCTION BOXES & CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE ENGINEER.
22. THE EXISTING LIGHTING SYSTEM SHALL BE LEFT IN PLACE TO LIGHT ROADWAY THROUGHOUT CONSTRUCTION. AFTER THE PROPOSED LIGHTING HAS BEEN INSTALLED AND OPERATIONAL, THE EXISTING LIGHTING CAN BE REMOVED. THE CONTRACTOR SHALL PERFORM FULL MAINTENANCE OF THE EXISTING LIGHTING SYSTEM WHILE OPERATIONAL (SEE SPECIAL PROVISION).
23. UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.
24. CONTRACTOR SHALL USE A STANDARD CONCRETE FOUNDATION WHEREVER POSSIBLE. IF UTILITY CONFLICTS PROHIBIT THE USE OF A STANDARD CONCRETE FOUNDATION, THE CONTRACTOR SHALL CONSULT WITH ENGINEER PRIOR TO THE USE OF AN OFFSET FOUNDATION.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY NOTIFICATION AND ALL COORDINATION WITH LOCAL ELECTRIC UTILITY FOR NEW ELECTRIC SERVICE TO THE PROPOSED LIGHTING CONTROLLER.

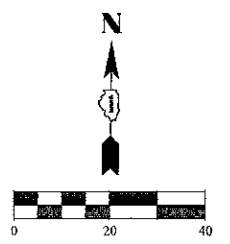
## LIGHTING BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	2
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	120
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIA.	FOOT	255
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	450
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	960
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	4970
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	370
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5100
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	20600
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	7750
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	400
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20
REMOVAL OF POLE FOUNDATION	EACH	20
REMOVE EXISTING HANDHOLE	EACH	10
GFCI 20 AMP DUPLEX RECEPTACLE	EACH	19
ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	12
REMOVE AND RELOCATE LIGHTING SYSTEM	L SUM	1
HANDHOLE (SPECIAL)	EACH	13
HANDHOLE, COMPOSITE CONCRETE (SPECIAL)	EACH	4
PHOTOCELL RELAY	EACH	11
LIGHTING UNIT COMPLETE, SPECIAL	EACH	12
LIGHT POLE FOUNDATION, SPECIAL	FOOT	60
LIGHT POLE FOUNDATION, 24" DIAMETER, SPECIAL	FOOT	88
LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	29
FILL EXISTING HANDHOLES	EACH	7
MAINTENANCE OF LIGHTING SYSTEM	L SUM	1

**CAUTION  
NOTICE TO CONTRACTOR**

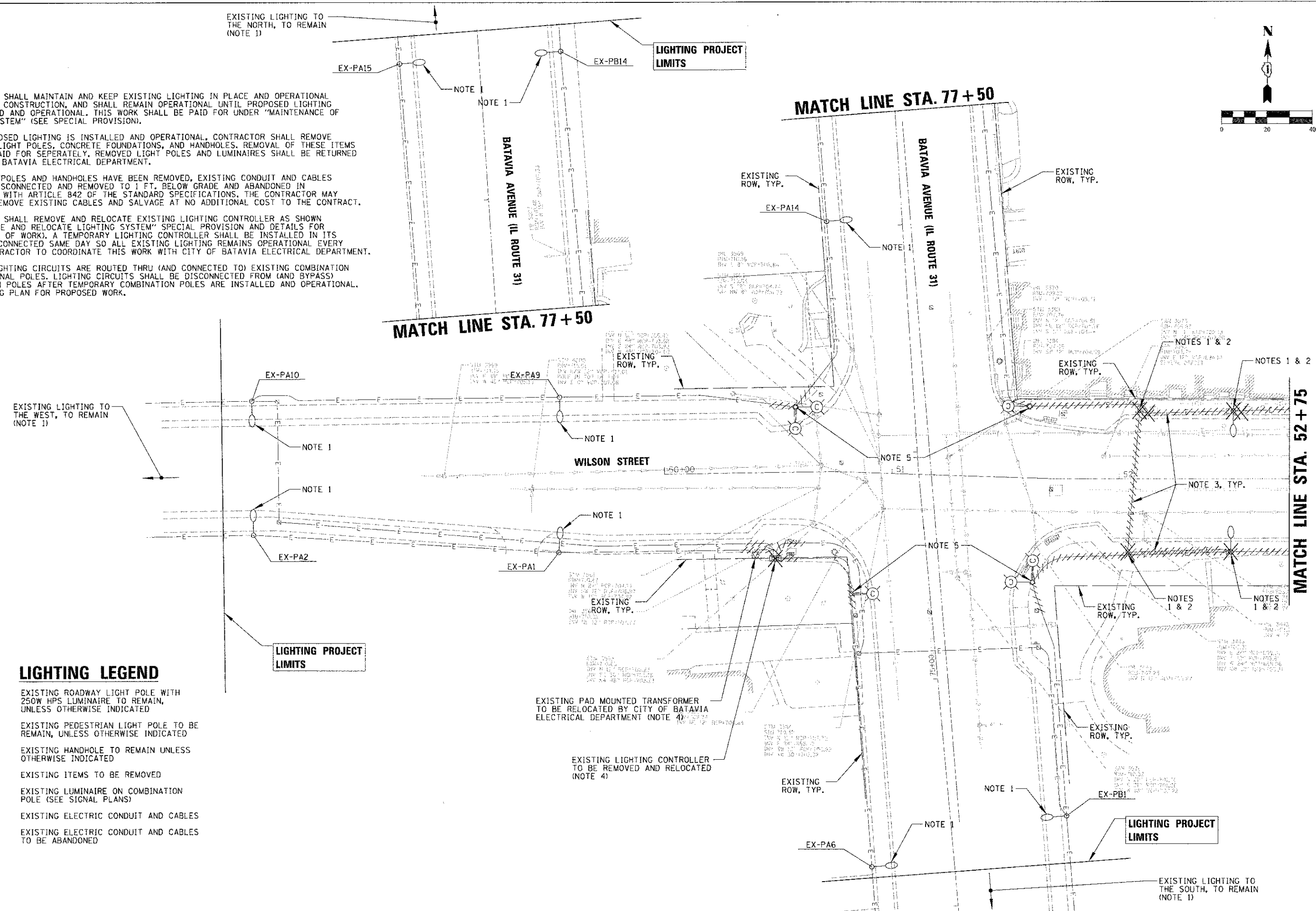
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND/OR ELEVATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THESE PLANS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ENGINEER OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.

THE CITY OF BATAVIA WILL OWN AND MAINTAIN THE PROPOSED LIGHTING SYSTEM.



**NOTES:**

1. CONTRACTOR SHALL MAINTAIN AND KEEP EXISTING LIGHTING IN PLACE AND OPERATIONAL THROUGHOUT CONSTRUCTION, AND SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE PAID FOR UNDER "MAINTENANCE OF LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
2. AFTER PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL, CONTRACTOR SHALL REMOVE IDENTIFIED LIGHT POLES, CONCRETE FOUNDATIONS, AND HANDHOLES. REMOVAL OF THESE ITEMS SHALL BE PAID FOR SEPARATELY. REMOVED LIGHT POLES AND LUMINAIRES SHALL BE RETURNED TO CITY OF BATAVIA ELECTRICAL DEPARTMENT.
3. AFTER LIGHTPOLES AND HANDHOLES HAVE BEEN REMOVED, EXISTING CONDUIT AND CABLES SHALL BE DISCONNECTED AND REMOVED TO 1 FT. BELOW GRADE AND ABANDONED IN ACCORDANCE WITH ARTICLE B42 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR MAY ELECT TO REMOVE EXISTING CABLES AND SALVAGE AT NO ADDITIONAL COST TO THE CONTRACT.
4. CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER AS SHOWN (SEE "REMOVE AND RELOCATE LIGHTING SYSTEM" SPECIAL PROVISION AND DETAILS FOR DESCRIPTION OF WORK). A TEMPORARY LIGHTING CONTROLLER SHALL BE INSTALLED IN ITS PLACE AND CONNECTED SAME DAY SO ALL EXISTING LIGHTING REMAINS OPERATIONAL EVERY NIGHT. CONTRACTOR TO COORDINATE THIS WORK WITH CITY OF BATAVIA ELECTRICAL DEPARTMENT.
5. EXISTING LIGHTING CIRCUITS ARE ROUTED THRU (AND CONNECTED TO) EXISTING COMBINATION TRAFFIC SIGNAL POLES. LIGHTING CIRCUITS SHALL BE DISCONNECTED FROM (AND BYPASS) COMBINATION POLES AFTER TEMPORARY COMBINATION POLES ARE INSTALLED AND OPERATIONAL. SEE LIGHTING PLAN FOR PROPOSED WORK.



**LIGHTING LEGEND**

- EXISTING ROADWAY LIGHT POLE WITH 250W HPS LUMINAIRE TO REMAIN, UNLESS OTHERWISE INDICATED
- EXISTING PEDESTRIAN LIGHT POLE TO BE REMOVED, UNLESS OTHERWISE INDICATED
- EXISTING HANDHOLE TO REMAIN UNLESS OTHERWISE INDICATED
- EXISTING ITEMS TO BE REMOVED
- EXISTING LUMINAIRE ON COMBINATION POLE (SEE SIGNAL PLANS)
- EXISTING ELECTRIC CONDUIT AND CABLES
- EXISTING ELECTRIC CONDUIT AND CABLES TO BE ABANDONED

**LIGHTING PROJECT LIMITS**

**LIGHTING PROJECT LIMITS**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**








**ROADWAY LIGHTING REMOVAL AND RELOCATION PLAN (1 OF 3)  
WILSON STREET**

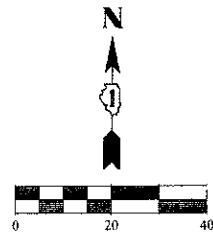
<p><b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500</p>	USER NAME = kbatdwn	DESIGNED <i>AJD</i>	REVISED -
	PLT/SCALE = 22'	DRAWN <i>KWB</i>	REVISED -
	PLT/DATE = 10/22/2012	CHECKED <i>AJD</i>	REVISED -
		DATE <i>10/22/2012</i>	REVISED -

SCALE: 1"=20'	SHEET OF 88 SHEETS	STA. TO STA.	F.A.U. RTE. 1441	SECTION 12-00073-01-1L	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 60
						CONTRACT NO. 63763	
ILLINOIS FED. AID PROJECT							

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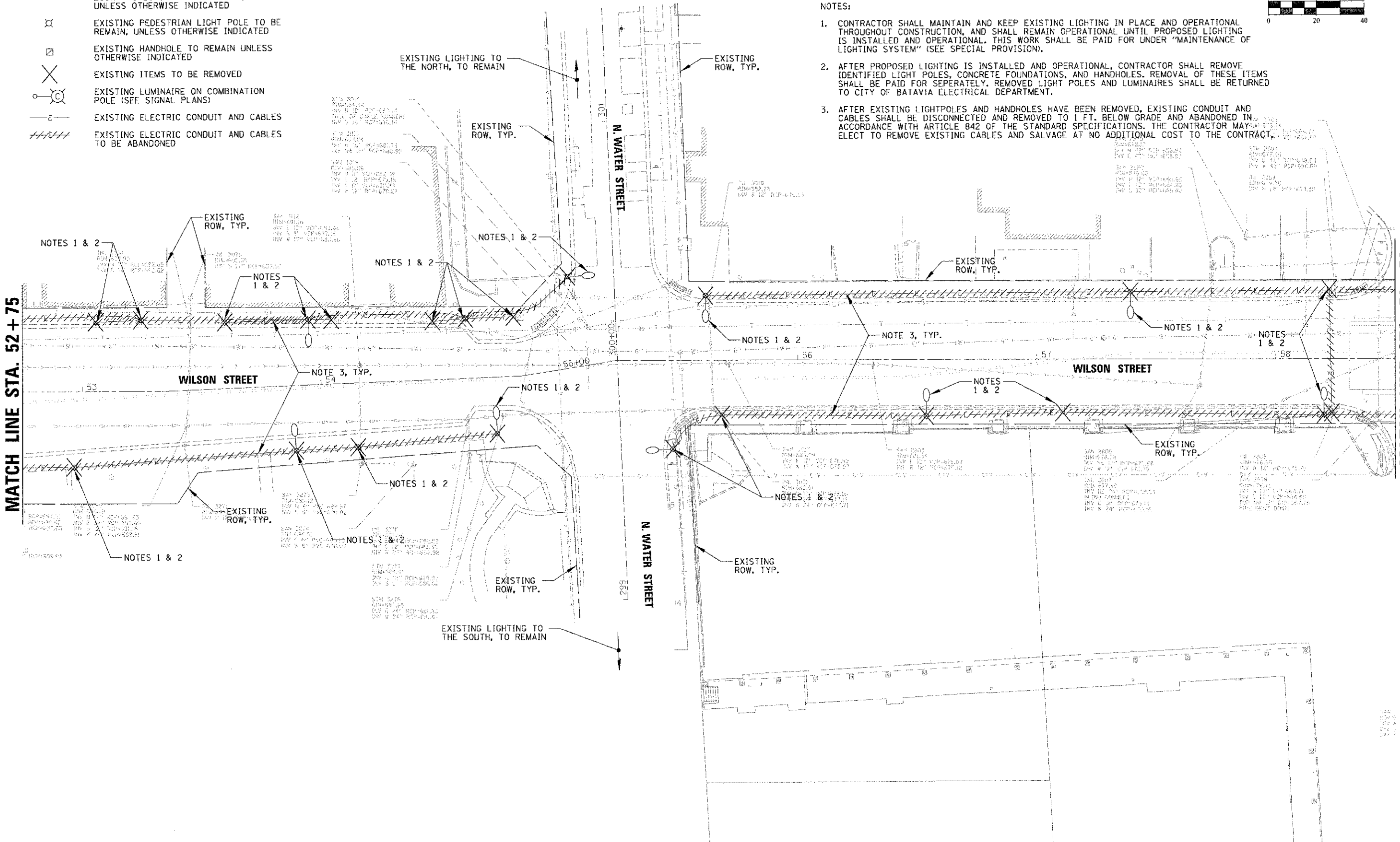
**LIGHTING LEGEND**


-  EXISTING ROADWAY LIGHT POLE WITH 250W HPS LUMINAIRE TO REMAIN, UNLESS OTHERWISE INDICATED
-  EXISTING PEDESTRIAN LIGHT POLE TO BE REMAIN, UNLESS OTHERWISE INDICATED
-  EXISTING HANDHOLE TO REMAIN UNLESS OTHERWISE INDICATED
-  EXISTING ITEMS TO BE REMOVED
-  EXISTING LUMINAIRE ON COMBINATION POLE (SEE SIGNAL PLANS)
-  EXISTING ELECTRIC CONDUIT AND CABLES
-  EXISTING ELECTRIC CONDUIT AND CABLES TO BE ABANDONED



**NOTES:**

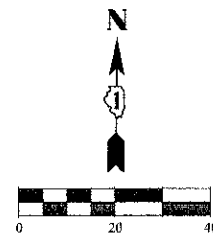
1. CONTRACTOR SHALL MAINTAIN AND KEEP EXISTING LIGHTING IN PLACE AND OPERATIONAL THROUGHOUT CONSTRUCTION, AND SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE PAID FOR UNDER "MAINTENANCE OF LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
2. AFTER PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL, CONTRACTOR SHALL REMOVE IDENTIFIED LIGHT POLES, CONCRETE FOUNDATIONS, AND HANDHOLES. REMOVAL OF THESE ITEMS SHALL BE PAID FOR SEPARATELY. REMOVED LIGHT POLES AND LUMINAIRES SHALL BE RETURNED TO CITY OF BATAVIA ELECTRICAL DEPARTMENT.
3. AFTER EXISTING LIGHTPOLES AND HANDHOLES HAVE BEEN REMOVED, EXISTING CONDUIT AND CABLES SHALL BE DISCONNECTED AND REMOVED TO 1 FT. BELOW GRADE AND ABANDONED IN ACCORDANCE WITH ARTICLE 842 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR MAY ELECT TO REMOVE EXISTING CABLES AND SALVAGE AT NO ADDITIONAL COST TO THE CONTRACT.



	<b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9375 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = kbaiddan	DESIGNED <i>AJD</i>	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY LIGHTING REMOVAL AND RELOCATION PLAN (2 OF 3)</b> <b>WILSON STREET</b>	F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 61	CONTRACT NO. 63763
	PLT SCALE = 2"	PLT DATE = 10/22/2012	DRAWN <i>KWB</i>	CHECKED <i>AJD</i>			DATE 10/22/2012	SCALE: 1"=20'	SHEET OF 88	SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

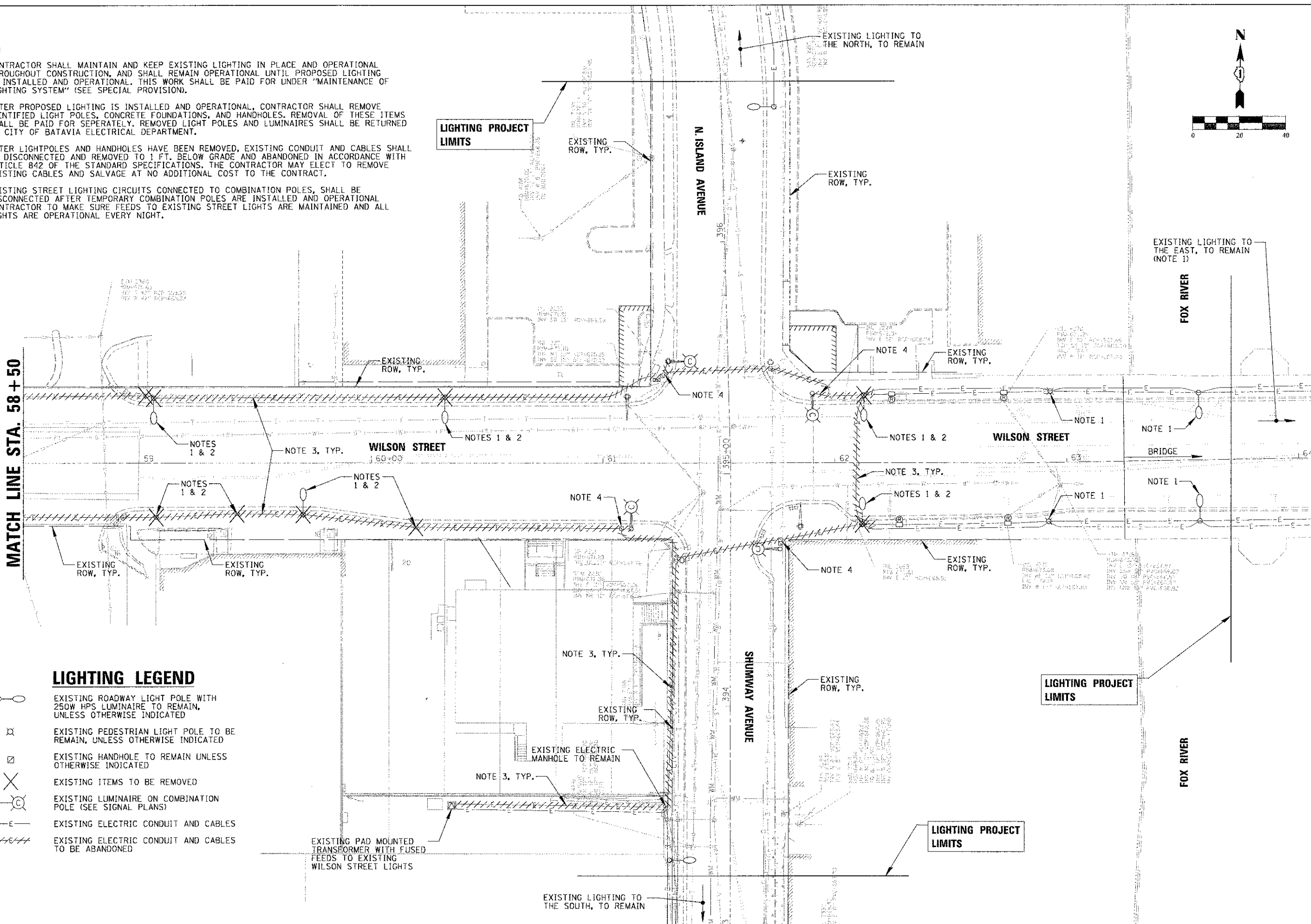
NOTES:

1. CONTRACTOR SHALL MAINTAIN AND KEEP EXISTING LIGHTING IN PLACE AND OPERATIONAL THROUGHOUT CONSTRUCTION, AND SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE PAID FOR UNDER "MAINTENANCE OF LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
2. AFTER PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL, CONTRACTOR SHALL REMOVE IDENTIFIED LIGHT POLES, CONCRETE FOUNDATIONS, AND HANDHOLES. REMOVAL OF THESE ITEMS SHALL BE PAID FOR SEPARATELY. REMOVED LIGHT POLES AND LUMINAIRES SHALL BE RETURNED TO CITY OF BATAVIA ELECTRICAL DEPARTMENT.
3. AFTER LIGHTPOLES AND HANDHOLES HAVE BEEN REMOVED, EXISTING CONDUIT AND CABLES SHALL BE DISCONNECTED AND REMOVED TO 1 FT. BELOW GRADE AND ABANDONED IN ACCORDANCE WITH ARTICLE 842 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR MAY ELECT TO REMOVE EXISTING CABLES AND SALVAGE AT NO ADDITIONAL COST TO THE CONTRACT.
4. EXISTING STREET LIGHTING CIRCUITS CONNECTED TO COMBINATION POLES, SHALL BE DISCONNECTED AFTER TEMPORARY COMBINATION POLES ARE INSTALLED AND OPERATIONAL. CONTRACTOR TO MAKE SURE FEEDS TO EXISTING STREET LIGHTS ARE MAINTAINED AND ALL LIGHTS ARE OPERATIONAL EVERY NIGHT.



MATCH LINE STA. 58+50

- LIGHTING LEGEND**
- EXISTING ROADWAY LIGHT POLE WITH 250W HPS LUMINAIRE TO REMAIN, UNLESS OTHERWISE INDICATED
  - EXISTING PEDESTRIAN LIGHT POLE TO BE REMAIN, UNLESS OTHERWISE INDICATED
  - EXISTING HANDHOLE TO REMAIN UNLESS OTHERWISE INDICATED
  - EXISTING ITEMS TO BE REMOVED
  - EXISTING LUMINAIRE ON COMBINATION POLE (SEE SIGNAL PLANS)
  - EXISTING ELECTRIC CONDUIT AND CABLES
  - EXISTING ELECTRIC CONDUIT AND CABLES TO BE ABANDONED



**CHRISTOPHER B. BURKE**  
ENGINEERING, LTD.  
9578 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME = xkaldwin	DESIGNED <i>AJD</i>	REVISED -
PLOT SCALE = 28'	DRAWN <i>KWB</i>	REVISED -
PLOT DATE = 12/22/2012	CHECKED <i>AJD</i>	REVISED -
	DATE <i>10/22/2012</i>	REVISED -

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

**ROADWAY LIGHTING REMOVAL AND RELOCATION PLAN (3 OF 3)**  
**WILSON STREET**

SCALE: 1"=20' SHEET OF 88 SHEETS STA. TO STA.

F.A.U. RTE. 1441	SECTION 12-C0073-01-TL	COUNTY KANE	TOTAL SHEETS: NO. 88	SHEET NO. 62
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63763	

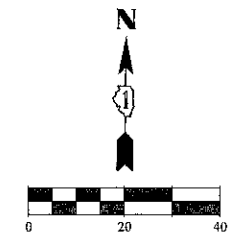


**NOTES:**

- EXISTING ROADWAY LIGHTING CIRCUITS FEED THROUGH EXISTING COMBINATION TRAFFIC SIGNAL POLES. CONTRACTOR SHALL LOCATE CONDUITS IN-OUT OF SIGNAL POLE AND SPLICE IN A PIECE OF UNIT DUCT TO BYPASS POLE. A NEW SPAN OF WIRE TO/FROM ADJACENT POLES OR CONTROLLER TO BE INSTALLED USING SAME SIZE, COLORS, TYPE, CIRCUITS AS EXISTING (3/C #4, 1/C #4 N, 1/C #6 XLP GND - BLACK, RED, BLUE, WHITE, GREEN IN 1/2" SCH 40 HDPE CONDUIT).
- EXISTING LIGHTING CONTROLLER TO BE RELOCATED AS SHOWN. EXISTING BRANCH CIRCUIT CONDUITS TO THE WEST SHALL BE REROUTED THRU NEW HANDHOLE TO NEW CONTROLLER LOCATION. EXISTING BRANCH CIRCUIT IN HDPE UNIT DUCTS TO THE EAST SHALL BE EXTENDED TO NEW CONTROLLER LOCATION (THRU NEW HANDHOLE) WITH NEW SPANS OF WIRE INSTALLED FROM RELOCATED CONTROLLER TO FIRST LIGHT POLE (SAME CONDUIT/WIRING AS NOTE 1). SEE DETAILS FOR DESCRIPTION OF WORK. INSTALL (2) EMPTY 1/2" HDPE UNIT DUCTS FROM NEW HANDHOLE TO RELOCATED CONTROLLER.
- A NEW 2" RGS ELECTRIC SERVICE CONDUIT WITH 3/C #2 CABLES SHALL BE INSTALLED FROM NEW TRANSFORMER TO RELOCATED CABINET. A NEW EMPTY 5" SCH 40 PVC CONDUIT SHALL BE INSTALLED IN SAME TRENCH FROM NEW TRANSFORMER TO EXISTING TRANSFORMER LOCATION. COORDINATE THIS WORK WITH THE CITY OF BATAVIA ELECTRIC DEPARTMENT.
- PROPOSED COMBINATION LIGHT POLES WITH 250W HPS LUMINAIRES (SEE SIGNAL PLANS).
- CONSULT WITH ENGINEER FOR USE OF AN OFFSET FOUNDATION FOR THIS POLE.

EXISTING LIGHTING TO THE NORTH, TO REMAIN

**LIGHTING PROJECT LIMITS**



**MATCH LINE STA. 77 + 50**

**MATCH LINE STA. 77 + 50**

**MATCH LINE STA. 52 + 75**

EXISTING LIGHTING TO THE WEST, TO REMAIN

**LIGHTING LEGEND**

- PROPOSED 30' DECORATIVE ROADWAY POLE WITH 250W HIGH PRESSURE SODIUM LUMINAIRE MOUNTED ON AN 8' ARM
- PROPOSED 14' DECORATIVE PEDESTRIAN POLE WITH A POST TOP 100W HIGH PRESSURE SODIUM LUMINAIRE
- EXISTING ROADWAY LIGHT POLE WITH 250W HPS LUMINAIRE TO REMAIN, UNLESS OTHERWISE INDICATED
- EXISTING PEDESTRIAN LIGHT POLE TO BE REMAIN, UNLESS OTHERWISE INDICATED
- PROPOSED 120V-GFCI GROUND MOUNTED RECEPTACLE
- PROPOSED COMPOSITE CONCRETE HANDHOLE
- LIGHT POLE IDENTIFIER
- CIRCUIT IDENTIFIER
- STATION
- SETBACK FROM FACE OF CURB (FOC) TO CENTER OF LIGHT POLE
- RECEPTACLE IDENTIFIER
- CIRCUIT IDENTIFIER
- PROPOSED 250W HPS LUMINAIRE ON COMBINATION POLE (SEE SIGNAL PLANS)
- PROPOSED CONDUIT
- PROPOSED CONDUIT IN RGS SLEEVE
- NUMBER AND SIZE OF CONDUCTORS
- CONDUIT SIZE

**LIGHTING PROJECT LIMITS**

**CONDUCTOR SCHEDULE**

- (A) EMPTY WITH PULL ROPE
- (B) 1/C #10, 1/C #10 N, & 1/C #10 GND
- (C) 2/C #10, 1/C #10 N, & 1/C #10 GND
- (D) 1/C #6, 1/C #6 N, & 1/C #6 GND
- (E) 2/C #6, 2/C #6 N, & 1/C #6 GND
- (F) 4/C #6, 2/C #6 N, & 1/C #6 GND
- (G) 1/C #4, 1/C #4 N, & 1/C #4 GND
- (H) 3/C #4, 1/C #4 N, & 1/C #6 GND







**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**












**ROADWAY LIGHTING PLAN (1 OF 3) WILSON STREET**

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 63
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT	

SCALE: 1"=20' SHEET OF 88 SHEETS STA. TO STA.

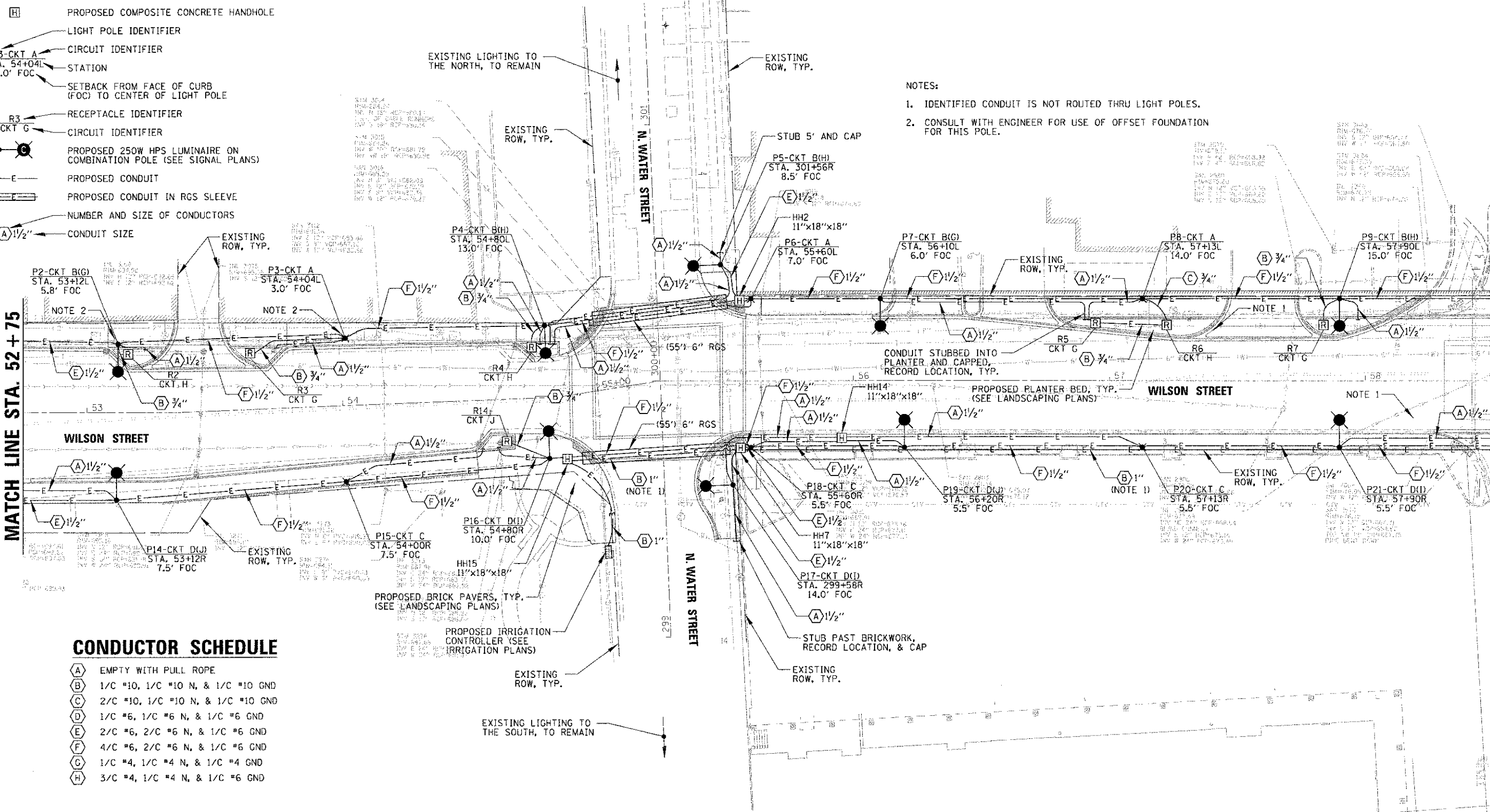
# LIGHTING LEGEND

-  PROPOSED 30' DECORATIVE ROADWAY POLE WITH 250W HIGH PRESSURE SODIUM LUMINAIRE MOUNTED ON AN 8' ARM
-  PROPOSED 14' DECORATIVE PEDESTRIAN POLE WITH A POST TOP 100W HIGH PRESSURE SODIUM LUMINAIRE
-  EXISTING ROADWAY LIGHT POLE WITH 250W HPS LUMINAIRE TO REMAIN, UNLESS OTHERWISE INDICATED
-  EXISTING PEDESTRIAN LIGHT POLE TO BE REMAIN, UNLESS OTHERWISE INDICATED
-  PROPOSED 120V-GFCI GROUND MOUNTED RECEPTACLE
-  PROPOSED COMPOSITE CONCRETE HANDHOLE

-  LIGHT POLE IDENTIFIER
-  CIRCUIT IDENTIFIER
-  STATION
-  SETBACK FROM FACE OF CURB (FOC) TO CENTER OF LIGHT POLE
-  RECEPTACLE IDENTIFIER
-  CIRCUIT IDENTIFIER
-  PROPOSED 250W HPS LUMINAIRE ON COMBINATION POLE (SEE SIGNAL PLANS)
-  PROPOSED CONDUIT
-  PROPOSED CONDUIT IN RGS SLEEVE
-  NUMBER AND SIZE OF CONDUCTORS
-  CONDUIT SIZE

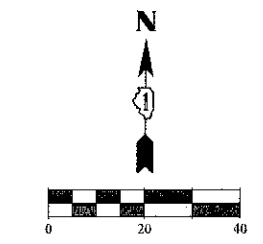
MATCH LINE STA. 52 + 75

MATCH LINE STA. 58 + 50



## CONDUCTOR SCHEDULE

- (A) EMPTY WITH PULL ROPE
- (B) 1/C #10, 1/C #10 N, & 1/C #10 GND
- (C) 2/C #10, 1/C #10 N, & 1/C #10 GND
- (D) 1/C #6, 1/C #6 N, & 1/C #6 GND
- (E) 2/C #6, 2/C #6 N, & 1/C #6 GND
- (F) 4/C #6, 2/C #6 N, & 1/C #6 GND
- (G) 1/C #4, 1/C #4 N, & 1/C #4 GND
- (H) 3/C #4, 1/C #4 N, & 1/C #6 GND



**CHRISTOPHER B. BURKE**  
ENGINEERING, LTD.  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0300

USER NAME = Reader  
DESIGNED *AJD*  
DRAWN *KWB*  
CHECKED *AJD*  
DATE *10/22/2012*

REVISIONS  
REVISIONS  
REVISIONS  
REVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN (2 OF 3)  
WILSON STREET

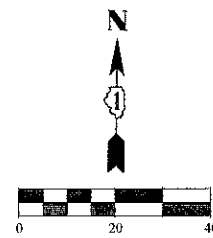
SCALE: 1"=20' SHEET OF 88 SHEETS STA. TO STA.

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 64
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT	

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**NOTES:**

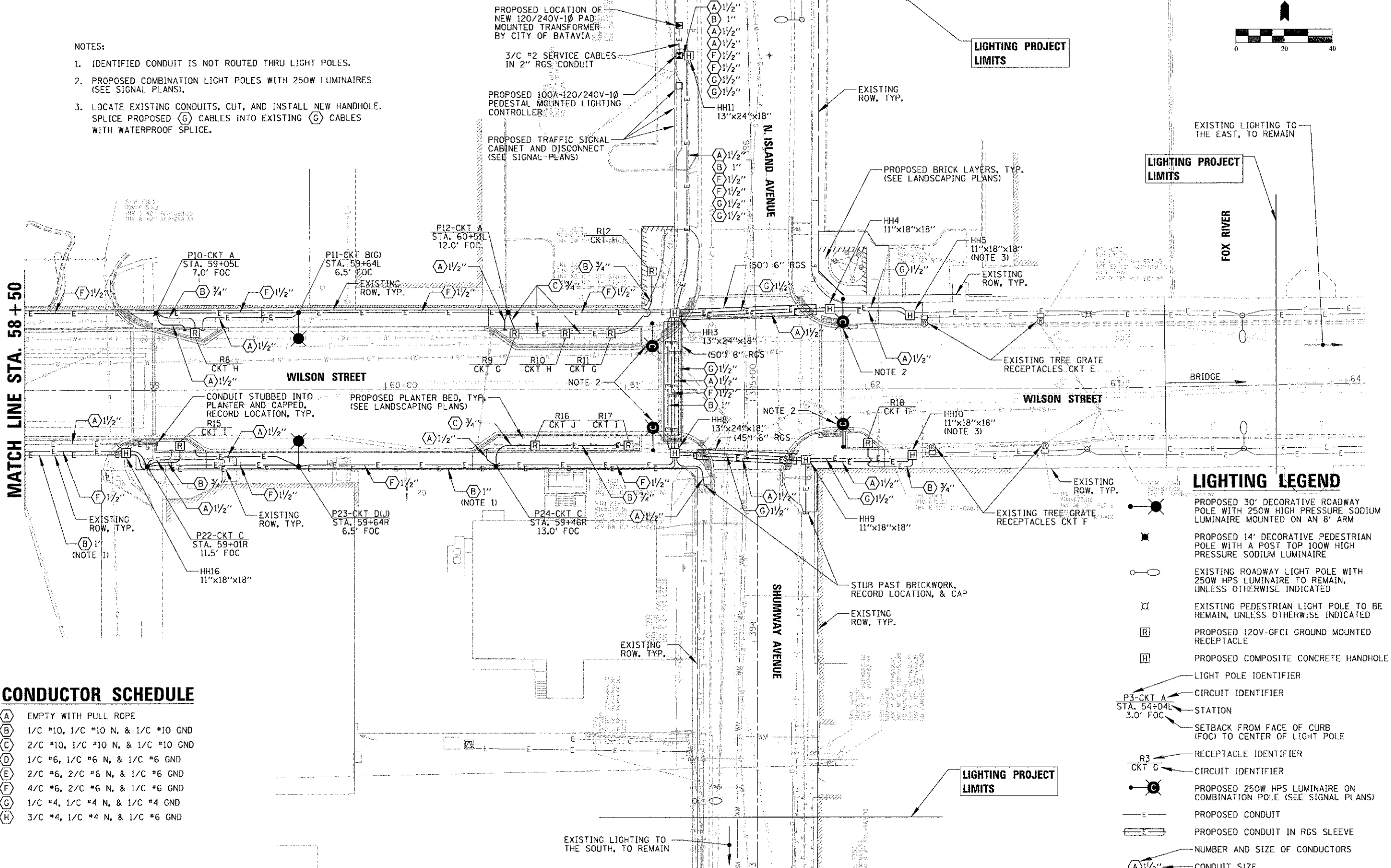
1. IDENTIFIED CONDUIT IS NOT ROUTED THRU LIGHT POLES.
2. PROPOSED COMBINATION LIGHT POLES WITH 250W LUMINAIRES (SEE SIGNAL PLANS).
3. LOCATE EXISTING CONDUITS, CUT, AND INSTALL NEW HANDHOLE. SPLICE PROPOSED (G) CABLES INTO EXISTING (G) CABLES WITH WATERPROOF SPLICE.



MATCH LINE STA. 58+50

**CONDUCTOR SCHEDULE**

- (A) EMPTY WITH PULL ROPE
- (B) 1/C #10, 1/C #10 N, & 1/C #10 GND
- (C) 2/C #10, 1/C #10 N, & 1/C #10 GND
- (D) 1/C #6, 1/C #6 N, & 1/C #6 GND
- (E) 2/C #6, 2/C #6 N, & 1/C #6 GND
- (F) 4/C #6, 2/C #6 N, & 1/C #6 GND
- (G) 1/C #4, 1/C #4 N, & 1/C #4 GND
- (H) 3/C #4, 1/C #4 N, & 1/C #6 GND



**LIGHTING LEGEND**

- PROPOSED 30' DECORATIVE ROADWAY POLE WITH 250W HIGH PRESSURE SODIUM LUMINAIRE MOUNTED ON AN 8' ARM
- PROPOSED 14' DECORATIVE PEDESTRIAN POLE WITH A POST TOP 100W HIGH PRESSURE SODIUM LUMINAIRE
- EXISTING ROADWAY LIGHT POLE WITH 250W HPS LUMINAIRE TO REMAIN, UNLESS OTHERWISE INDICATED
- EXISTING PEDESTRIAN LIGHT POLE TO BE REMAIN, UNLESS OTHERWISE INDICATED
- PROPOSED 120V-GFCI GROUND MOUNTED RECEPTACLE
- PROPOSED COMPOSITE CONCRETE HANDHOLE
- LIGHT POLE IDENTIFIER
- CIRCUIT IDENTIFIER
- STATION
- SETBACK FROM FACE OF CURB (FOC) TO CENTER OF LIGHT POLE
- RECEPTACLE IDENTIFIER
- CIRCUIT IDENTIFIER
- PROPOSED 250W HPS LUMINAIRE ON COMBINATION POLE (SEE SIGNAL PLANS)
- PROPOSED CONDUIT
- PROPOSED CONDUIT IN RGS SLEEVE
- NUMBER AND SIZE OF CONDUCTORS
- CONDUIT SIZE

<p><b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500</p>	USER: RYM4 = kwb/dan DESIGNED: <i>AJD</i> DRAWN: <i>KWB</i> CHECKED: <i>AJD</i> DATE: 10/22/2012	REVISED: - REVISED: - REVISED: - REVISED: -	F.A.U. RTE.: 1441 SECTION: 12-00073-01-TL COUNTY: KANE TOTAL SHEETS: 88 SHEET NO.: 65 CONTRACT NO.: 63763
	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		ROADWAY LIGHTING PLAN (3 OF 3) WILSON STREET SCALE: 1"=20' SHEET OF 88 SHEETS STA. TO STA.

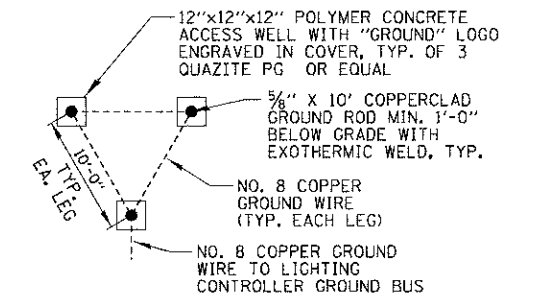
ITEM	SPECIFICATION	MANUFACTURER/MODEL NO. OR EQUAL
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240 V RATING, 22K AIC (NOTE 3)	SIEMENS NO. ED42B100
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120 V RATING, 22K AIC	SIEMENS NO. ED41B020
③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120 V RATING, 22K AIC	SIEMENS NO. ED41B015
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS	MAGNECRAFT NO. 389FXBXC1-120A
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
⑦ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH HELD	SQUARE D NO. 8903 500 10 V02
⑧ BRANCH LINE CIRCUIT BREAKERS	14 - 30 AMPERE, 1P, 120 V RATING, 22K AIC	SIEMENS NO. ED41B030
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑪ LAMPHOLDER WIRE	2-600V MTW NO. 12	N/A
⑫ CONTROL WIRE	2-600V MTW NO. 12	N/A
⑬ SURGE ARRESTOR	10 K AMPERE RATING	SQUARE D NO. SDSA 1175
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V MTW NO. 12	N/A
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-20G0-K
⑯ HAND-AUTO-OFF CONTROL SWITCH	20 A, 3 POS. MTD IN CAST ALUM. ENCLOSURE	SQUARE D NO. 9001 KYK 111
⑰ PHOTOCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105
⑱ BACK PANEL	1/2" THICK SOLID PHENOLIC LAMINATE	ARBORON
⑲ IRRIGATION CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 22KAIC	SIEMENS NO. ED41B015

- NOTES:
- ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER" INCLUDING CABINET AND FOUNDATION.
  - THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
  - CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED."
  - ALL WIRES IN CABINET SHALL BE LABELED AT EACH END WITH BRADY TYPE MARKERS.
  - ALL SWITCHES AND CONTROLS SHALL BE IDENTIFIED USING TWO COLOR ENGRAVED NAMEPLATES.

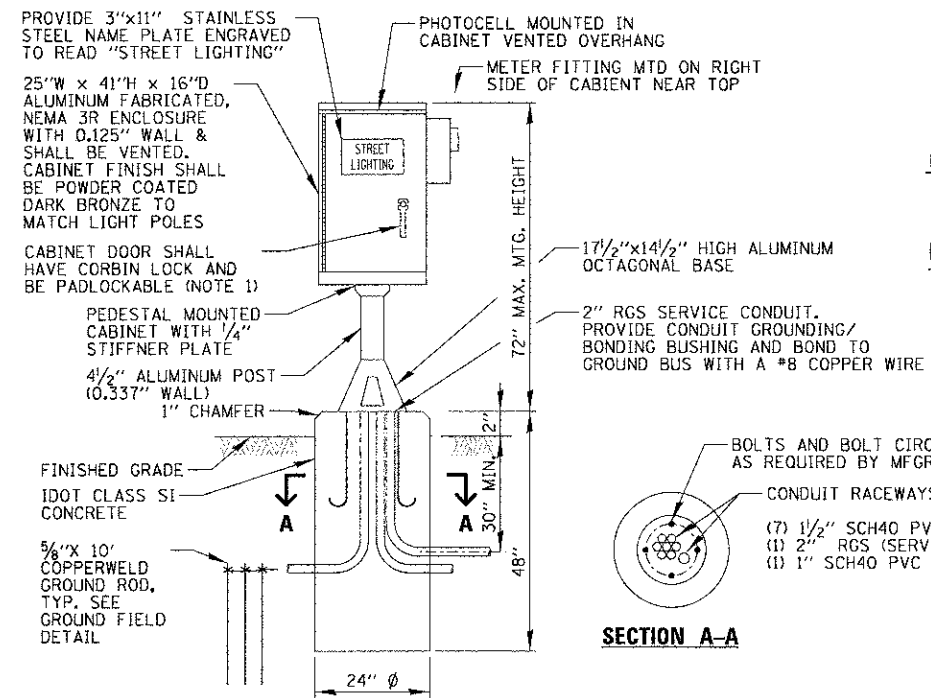
### LIGHTING CONTROLLER COMPONENT SCHEDULE

CIRCUIT ID	250W RD LUMINAIRE (288W)	100W PED LUMINAIRE (130W)	FESTOON RECEIPT (144W)	GRND MTD RECEIPT (240W)	50W PED LUMINAIRE (75W)	UNDERPASS LUMINAIRE (75W)	LED BENCH LUMINAIRE (20W)	TOTAL CIRCUIT LOAD (WATTS)	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	(WATTS)	AMPS (VOLTS)
A	-	6	-	-	-	-	-	780 W	6.5 A (120 V)
B	6	-	-	-	-	-	-	1728 W	14.4 A (120 V)
C	-	6	-	-	-	-	-	780 W	6.5 A (120 V)
D	6	-	-	-	-	-	-	1728 W	14.4 A (120 V)
E	2	2	2	2	1	2	6	1949 W	16.2 A (120 V)
F	2	2	2	2	2	3	6	2099 W	17.5 A (120 V)
G	-	-	3	6	-	-	-	1872 W	15.6 A (120 V)
H	-	-	3	6	-	-	-	1872 W	15.6 A (120 V)
I	-	-	3	3	-	-	-	1152 W	9.6 A (120 V)
J	-	-	3	2	-	-	-	912 W	7.6 A (120 V)
TOTAL	16	16	16	21	3	5	12	14,872 W	62.0 A (240 V)

### LIGHTING CONTROLLER CIRCUIT LOADS



- NOTES:
- ACCESS WELLS SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM.
- GROUND FIELD DETAIL (TYP.)**  
N.T.S.

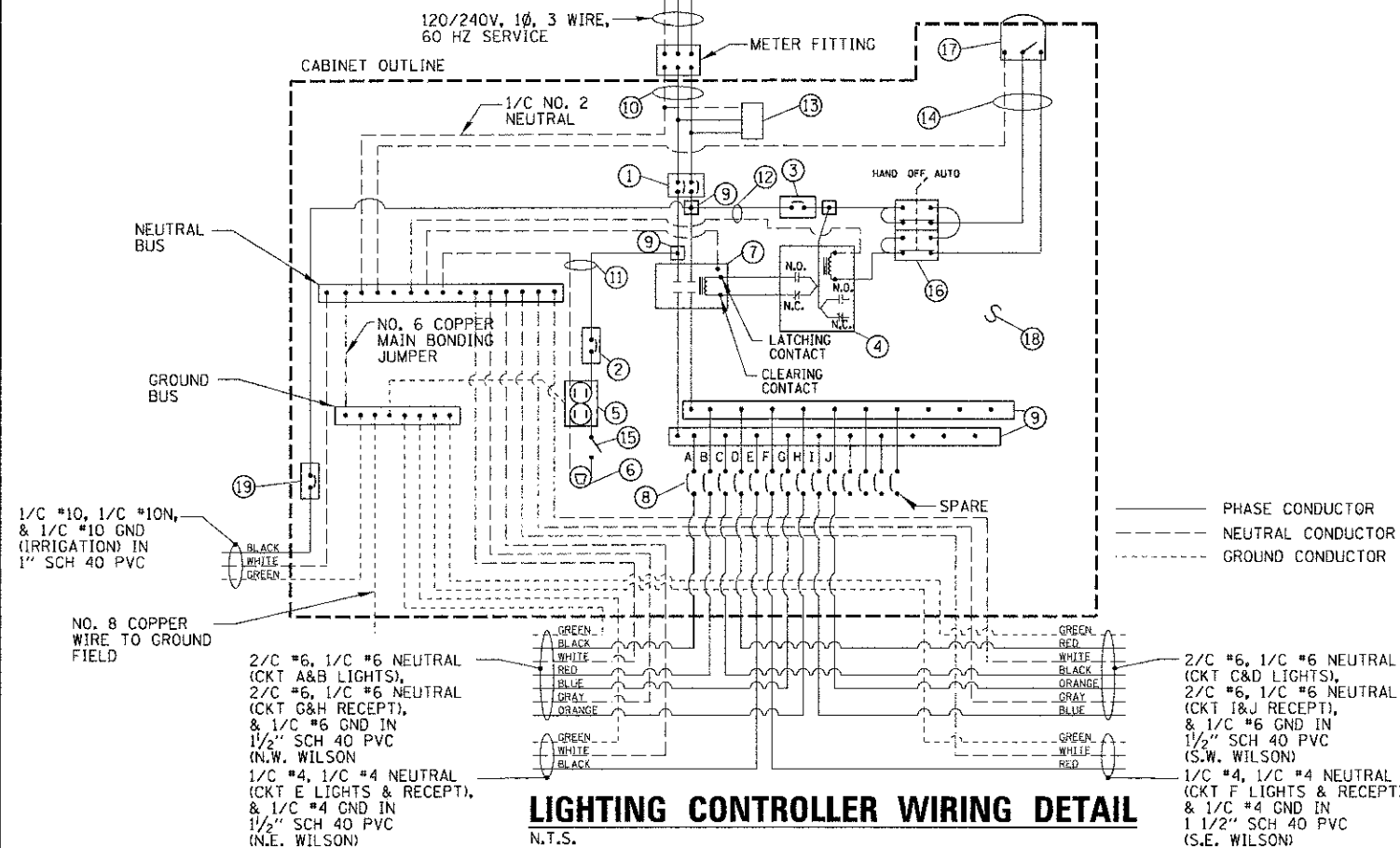


- NOTES:
- ITEMS SHOWN ABOVE INCLUDING CABINET, CONCRETE FOUNDATION SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM, EXCEPT FOR THE HORIZONTAL PORTION OF SERVICE CONDUIT & WIRE WHICH SHALL BE PAID SEPARATELY.
  - A 30"W x 24"D x 5" THICK CONCRETE WORK PAD SHALL BE PROVIDED IN FRONT OF THE CABINET. TOP OF PAD SHALL BE 1" ABOVE GRADE AND HAVE A 3/4" CHAMFER ALL AROUND.
  - ALL EXTERIOR CABINET HARDWARE SHALL BE STAINLESS STEEL.

### LIGHTING CONTROLLER CABINET AND FOUNDATION

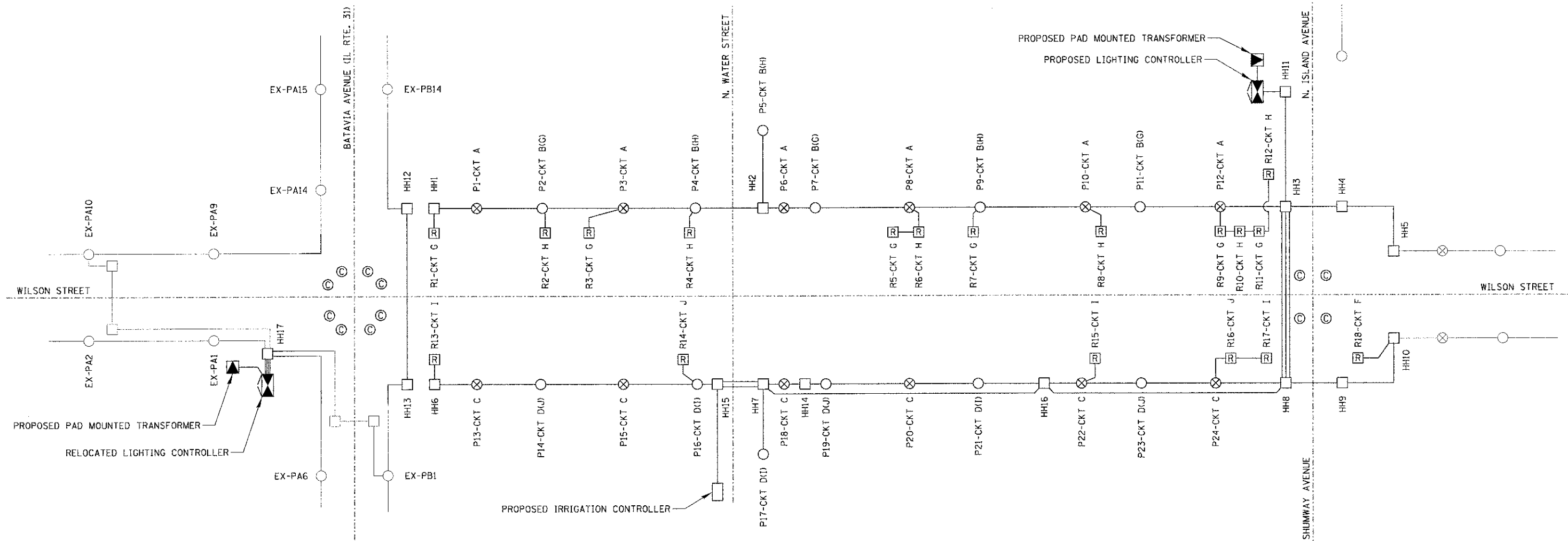
N.T.S.

NOTE:  
ALL CONDUCTORS IN THE UNIT DUCT RUNS SHALL HAVE INDIVIDUALLY COLOR CODED INSULATION THROUGHOUT THE ENTIRE LENGTH OF THE CONDUCTOR. THE COLOR IDENTIFICATION FOR THE SYSTEM GROUND SHALL BE GREEN.



### LIGHTING CONTROLLER WIRING DETAIL

N.T.S.



### POLE AND RECEPTACLE SCHEDULE

LIGHT POLE/ RECEPTACLE IDENTIFIER	POLE TYPE	SYMBOL	LUMINAIRES				FESTOON RECEPTACLES	
			ROADWAY		PEDESTRIAN		WATTAGE	CKT ID
			WATTAGE	CKT ID	WATTAGE	CKT ID		
P1	DECORATIVE	⊗	-	-	100	A	-	-
P2	ROADWAY	⊗	250W	B	-	-	144W	G
P3	DECORATIVE	⊗	-	-	100	A	-	-
P4	ROADWAY	⊗	250W	B	-	-	144W	H
P5	ROADWAY	⊗	250W	B	-	-	144W	H
P6	DECORATIVE	⊗	-	-	100	A	-	-
P7	ROADWAY	⊗	250W	B	-	-	144W	G
P8	DECORATIVE	⊗	-	-	100	A	-	-
P9	ROADWAY	⊗	250W	B	-	-	144W	H
P10	DECORATIVE	⊗	-	-	100	A	-	-
P11	ROADWAY	⊗	250W	B	-	-	144W	G
P12	DECORATIVE	⊗	-	-	100	A	-	-
P13	DECORATIVE	⊗	-	-	100	C	-	-
P14	ROADWAY	⊗	250W	D	-	-	144W	J
P15	DECORATIVE	⊗	-	-	100	C	-	-
P16	ROADWAY	⊗	250W	D	-	-	144W	I
P17	ROADWAY	⊗	250W	D	-	-	144W	I
P18	DECORATIVE	⊗	-	-	100	C	-	-
P19	ROADWAY	⊗	250W	D	-	-	144W	J
P20	DECORATIVE	⊗	-	-	100	C	-	-
P21	ROADWAY	⊗	250W	D	-	-	144W	I
P22	DECORATIVE	⊗	-	-	100	C	-	-
P23	ROADWAY	⊗	250W	D	-	-	144W	J
P24	DECORATIVE	⊗	-	-	100	C	-	-

GROUND MOUNTED RECEPTACLE IDENTIFIER	GROUND RECEPTACLES	
	WATTAGE	CKT ID
R1	240W	G
R2	240W	H
R3	240W	G
R4	240W	H
R5	240W	G
R6	240W	H
R7	240W	G
R8	240W	H
R9	240W	G
R10	240W	H
R11	240W	G
R12	240W	H
R13	240W	I
R14	240W	J
R15	240W	I
R16	240W	J
R17	240W	I
R18	240W	F

### HANDHOLE SCHEDULE

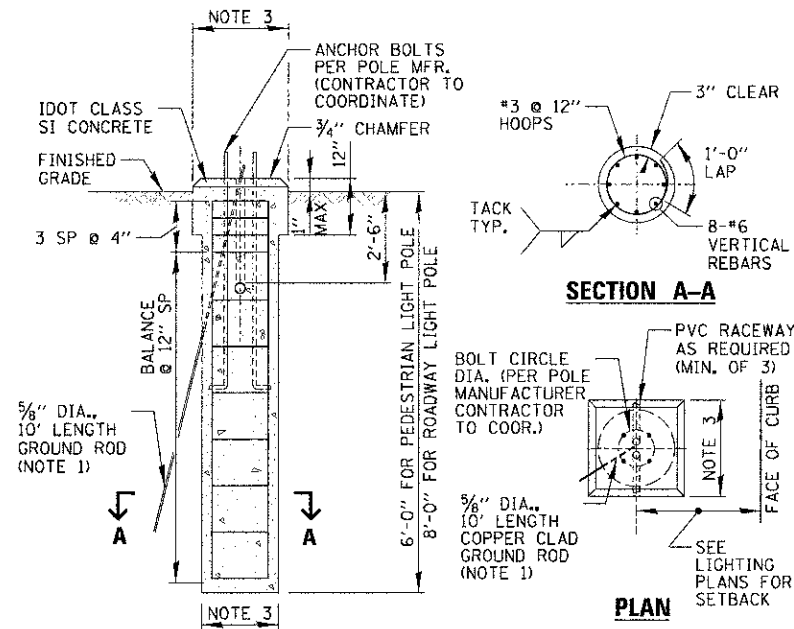
ID #	SIZE
HH1-HH2 HH4-HH7 HH9-HH10 HH12-HH16	11"x18"x18" DEEP
HH3 HH8 HH11 HH17	13"x24"x18" DEEP

### CONDUCTOR SCHEDULE

(A)	EMPTY WITH PULL ROPE
(B)	1/C #10, 1/C #10 N, & 1/C #10 GND
(C)	2/C #10, 1/C #10 N, & 1/C #10 GND
(D)	1/C #6, 1/C #6 N, & 1/C #6 GND
(E)	2/C #6, 2/C #6 N, & 1/C #6 GND
(F)	4/C #6, 2/C #6 N, & 1/C #6 GND
(G)	1/C #4, 1/C #4 N, & 1/C #4 GND
(H)	3/C #4, 1/C #4 N, & 1/C #6 GND

- LEGEND**
- ROADWAY LIGHT POLE
  - ⊗ DECORATIVE LIGHT POLE
  - ⊙ COMBINATION TRAFFIC SIGNAL LIGHT POLE
  - EXISTING ROADWAY LIGHT POLE
  - ⊗ EXISTING DECORATIVE LIGHT POLE
  - ELECTRIC LINE
  - ⏏ CONTROLLER
  - HANDHOLE
  - Ⓜ GROUND MOUNTED RECEPTACLE
  - Ⓜ TREE GRATE RECEPTACLE
  - LIGHT POLE NUMBER
  - LIGHTING CIRCUIT IDENTIFIER
  - (FESTOON CIRCUIT IDENTIFIER)
  - RECEPTACLE NUMBER
  - RECEPTACLE CIRCUIT IDENTIFIER
  - ROADWAY



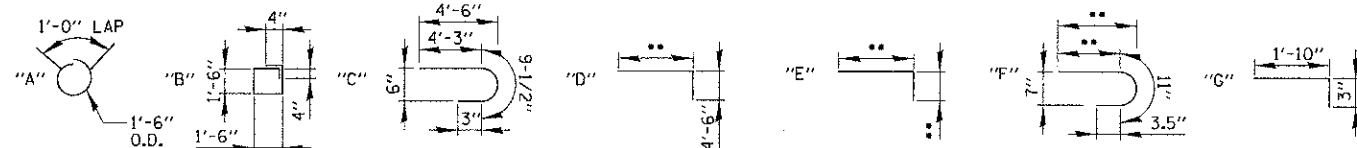
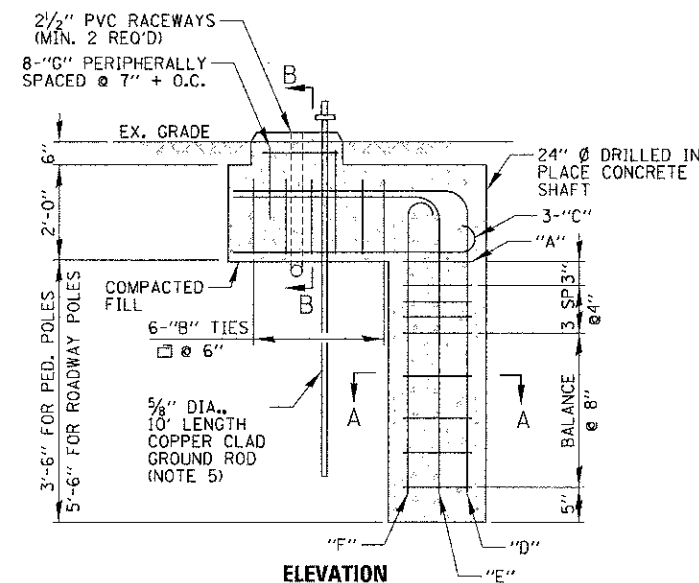
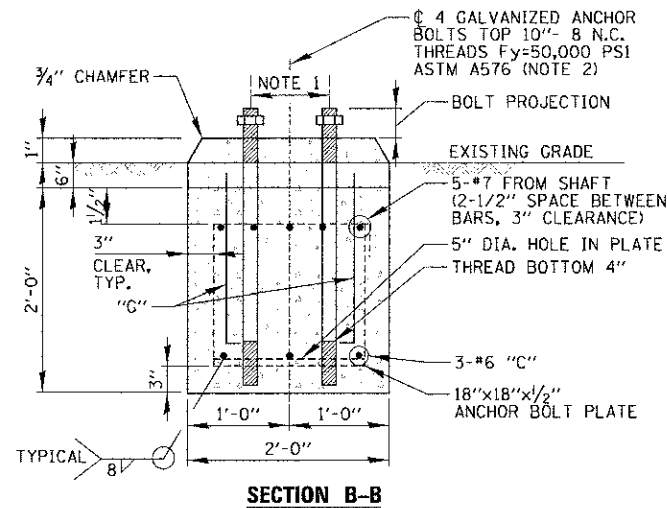
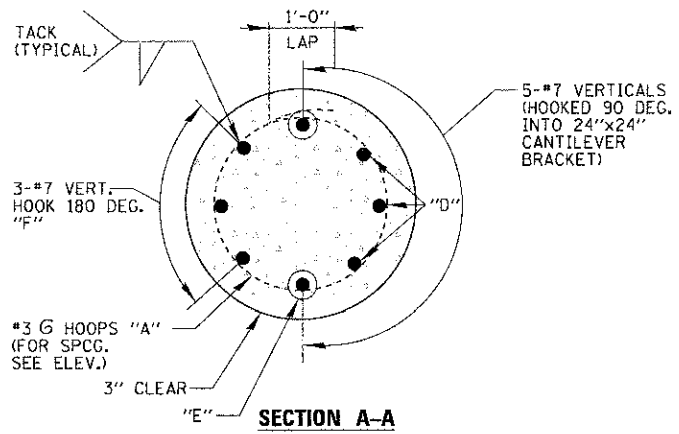


**NOTES:**

- GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8 FEET IN CONTACT WITH SOIL.
- FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.
- FOUNDATIONS FOR PEDESTRIAN LIGHT POLES SHALL HAVE 18" Ø DRILLED SHAFT & THE TOP 12" BE 19" SQUARE. FOUNDATIONS FOR ROADWAY POLES SHALL HAVE 24" Ø DRILLED SHAFT & THE TOP 12" BE 28" SQUARE.
- ALL ABOVE ITEMS INCLUDING CONCRETE, GROUND ROD, REINFORCEMENT, RACEWAYS AND FORMWORK SHALL BE INCLUDED IN THE "LIGHT POLE FOUNDATION" PAY ITEM.
- 24" Ø FOUNDATIONS PAID FOR UNDER "LIGHT POLE FOUNDATION, SPECIAL", 24" Ø DIAMETER, SPECIAL". 18" Ø FOUNDATIONS PAID FOR UNDER "LIGHT POLE FOUNDATION, SPECIAL".

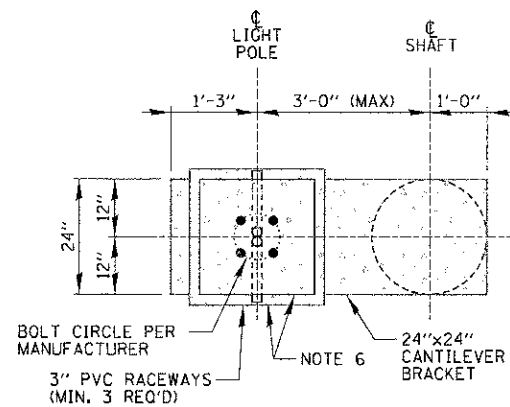
**CONCRETE FOUNDATION DETAIL**

N.T.S.



**OFFSET CONCRETE FOUNDATION DETAIL**

N.T.S.



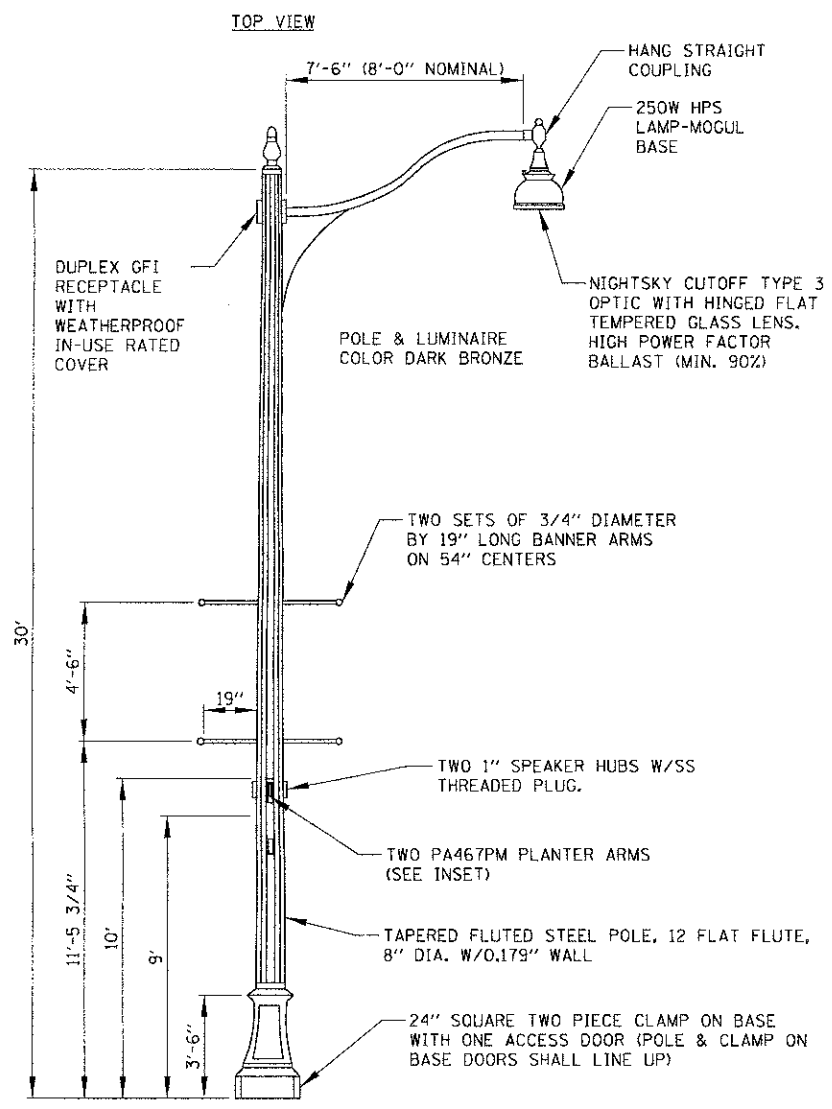
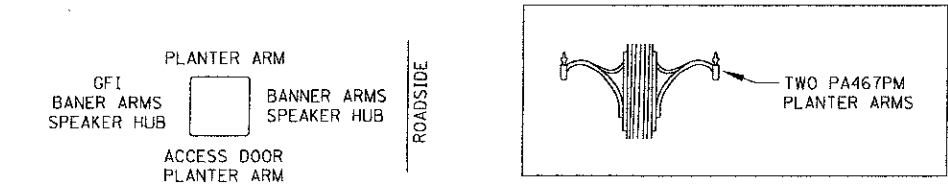
**PLAN-CANTILEVERED BRACKET**

**NOTES:**

- BOLT SIZE & CIRCLE PER POLE MANUFACTURER.
- THE TOP OF THE ANCHOR BOLTS SHALL NOT PROJECT MORE THAN 4" ABOVE A 60" CHORD ALIGNED RADially TO THE CENTERLINE OF THE ROADWAY, AND CONNECTING ANY POINT, WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.
- CONCRETE SHALL BE IDOT CLASS SI, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 14 DAYS.
- HOLE FOR FOUNDATIONS SHALL BE AUGERED AND FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.
- REINFORCING BARS SHALL CONFORM TO BILLET STEEL BARS. (ASTM-A615) SPECIFICATIONS WITH A 6000 PSI MINIMUM YIELD STRENGTH.
- THE TOP 6" OF FOUNDATIONS SHALL BE 24" SQUARE FOR PEDESTRIAN POLES AND 28" SQUARE FOR ROADWAY POLES.
- ALL ITEMS SHOWN INCLUDING CONCRETE, REINFORCEMENT, GROUND ROD, RACEWAYS AND FORMWORK SHALL BE INCLUDED IN THE "LIGHT POLE FOUNDATION, 24" DIAMETER OFFSET" PAY ITEM. FOUNDATIONS SHALL BE MEASURED ALONG CENTER LINES.

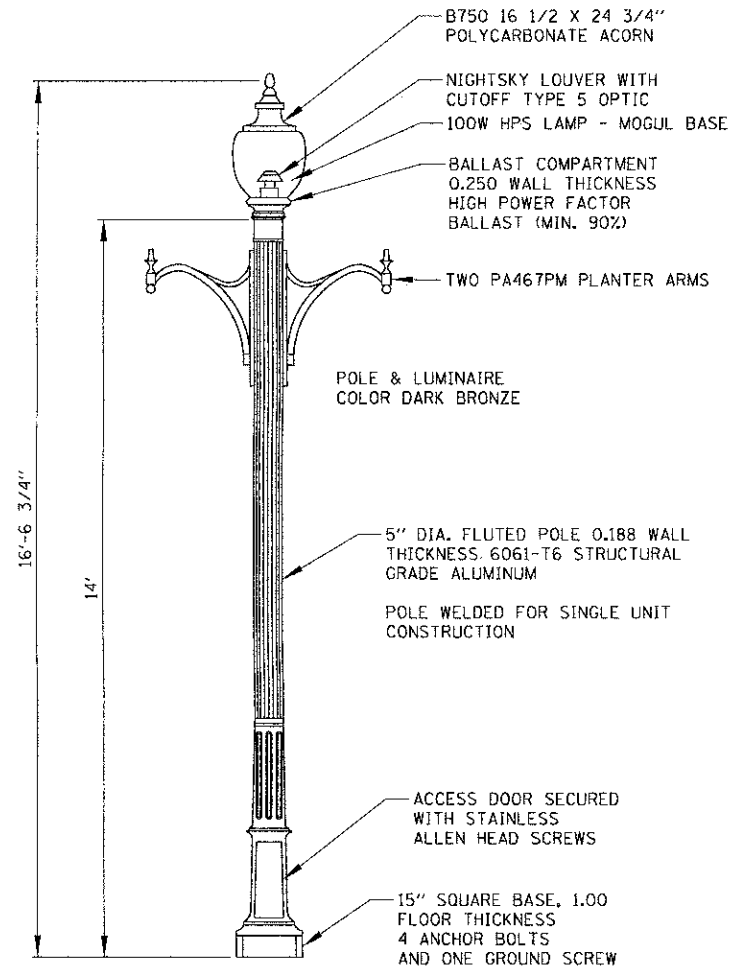
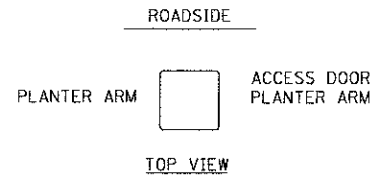
BILL OF MATERIALS				
QUAN.	MARK	SIZE	LENGTH	SHAPE
•	A	#3	5'-9"	○
6	B	#3	6'-8"	□
3	C	#6	5-3/2"	⌒
3	D	#7	••	⌒
2	E	#7	••	⌒
3	F	#7	••	⌒
8	G	#6	2'-1"	⌒
REINFORCING BARS LBS.				285
ANCHOR BOLTS NO.				4
ANCHOR BOLT PLATE NO.				1

- QUANTITY AS REQUIRED
- SIZE AS REQUIRED



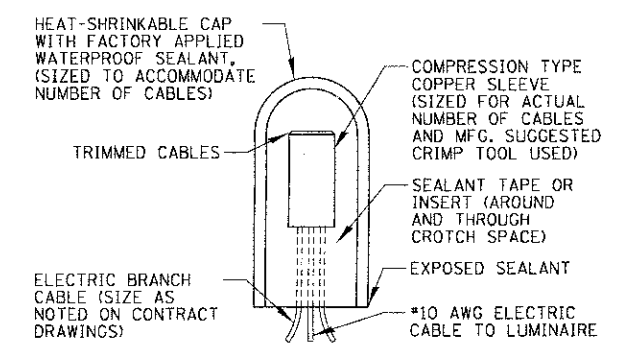
- NOTES:
- POLE:  
STERNBERG MODEL #  
B430 TFP8/2-HDBA/2-PA467PM/2-SH-1"/1-GFI/DB  
(NO EXCEPTIONS).
  - LUMINAIRE:  
MANUFACTURER A: STERNBERG MODEL #  
I-1950FG/CAS7.5/250 HPS/MULTI/RO3H-L/HPS250/MOG/ED18/DB.  
(NO EXCEPTIONS).
  - POLES SHALL BE MADE FROM DOMESTIC STEEL.

**ROADWAY LIGHTPOLE DETAIL**  
N.T.S.

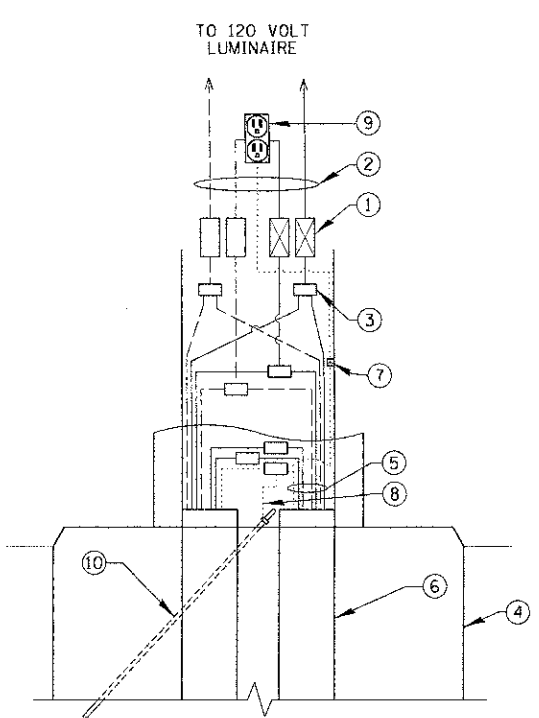


- NOTES:
- POLE:  
STERNBERG MODEL #  
8614 FP5/2-PA467PM/DB  
(NO EXCEPTIONS).
  - LUMINAIRE:  
MANUFACTURER A: STERNBERG MODEL #  
A850/BD5/100HPS/MULTI/L05-S/HPS100/MOG/DB.  
(NO EXCEPTIONS).

**PEDESTRIAN LIGHTPOLE DETAIL**  
N.T.S.

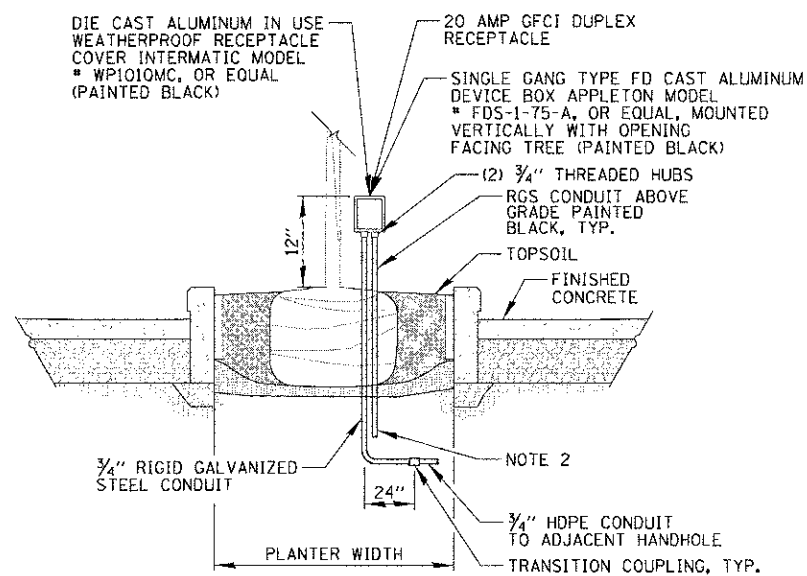
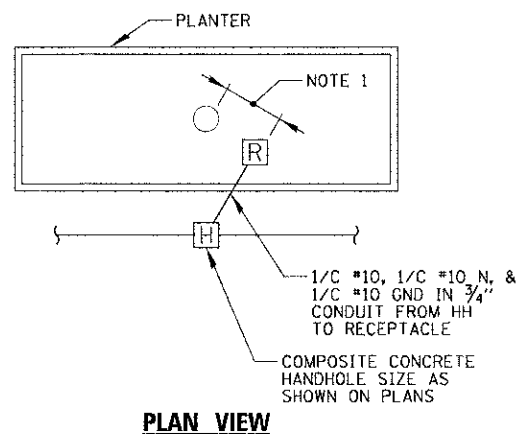


**SPlicing ELECTRIC CABLE**  
N.T.S.



- CONNECTOR KIT METHOD WITH A 7.5A FUSE FOR LUMINAIRE & 5A FUSE FOR RECEPTACLE (NEUTRAL SHALL BE NON-FUSED). FUSES SHALL BE TIME-DELAY TYPE FUSES INSIDE A FUSE HOLDER AND INSULATING BOOTS (BUSSMAN HEB SERIES OR APPROVED EQUAL).
  - NO. 10 A.W.G. WIRE
  - MULTIPLE COMPRESSION FITTINGS (SPLICE)
  - CONCRETE FOUNDATION
  - WIRE AS SHOWN ON PLANS
  - PVC RACEWAY
  - POLE GROUND LUG
  - #6 SOLID GROUND WIRE MECHANICALLY CLAMPED TO GROUND ROD
  - 20A-120V GFCI RECEPTACLE MTD. INSIDE POLE
  - 3/8" DIA. x 10' GROUND ROD
- PHASE CONDUCTOR  
- - - GROUND CONDUCTOR  
- - - NEUTRAL CONDUCTOR

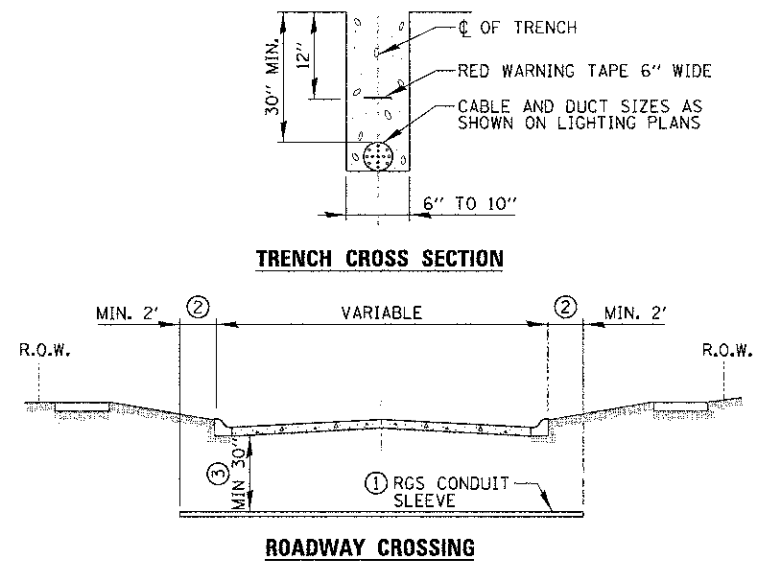
**LIGHT POLE HANDHOLE WIRING DIAGRAM**  
N.T.S.



**NOTES:**

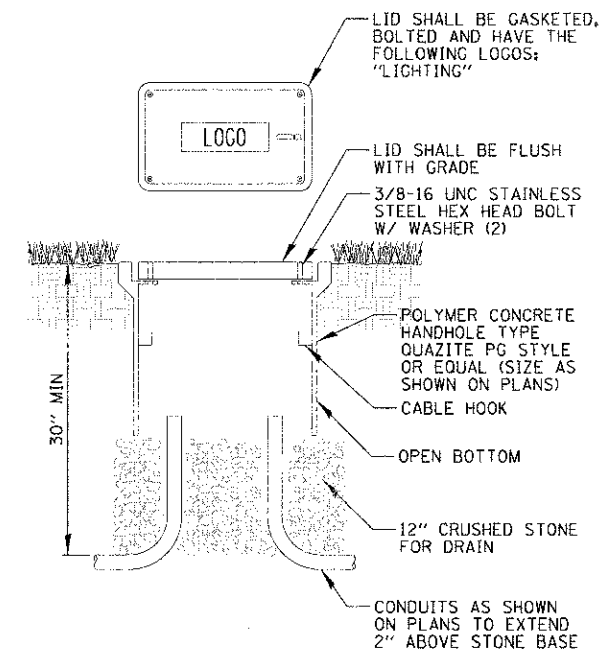
1. CONTRACTOR SHALL COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ORIENTATION OF RECEPTACLE WITH OWNER.
2. END OF RUN BOXES HAVE A VERTICAL 3/4" RGS CONDUIT EMBEDDED A MINIMUM OF 30" BELOW GRADE FOR STABILIZATION.
3. ALL FITTINGS, CONNECTORS, FASTENERS, CONDUIT (FROM THE TRANSITION COUPLING TO THE RECEPTACLE), RECEPTACLE BOX/COVER AND RECEPTACLE SHALL BE INCLUDED, BUT NOT LIMITED TO THE CONTRACT UNIT PRICE FOR "GFCI 20 AMP DUPLEX RECEPTACLE".

**PLANTER BOX TREE RECEPTACLE DETAIL**  
N.T.S.



- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 30" BELOW ROADWAY OR CURB BOTTOM.

**ELECTRIC CONDUIT INSTALLATION**  
N.T.S.



**NOTES:**

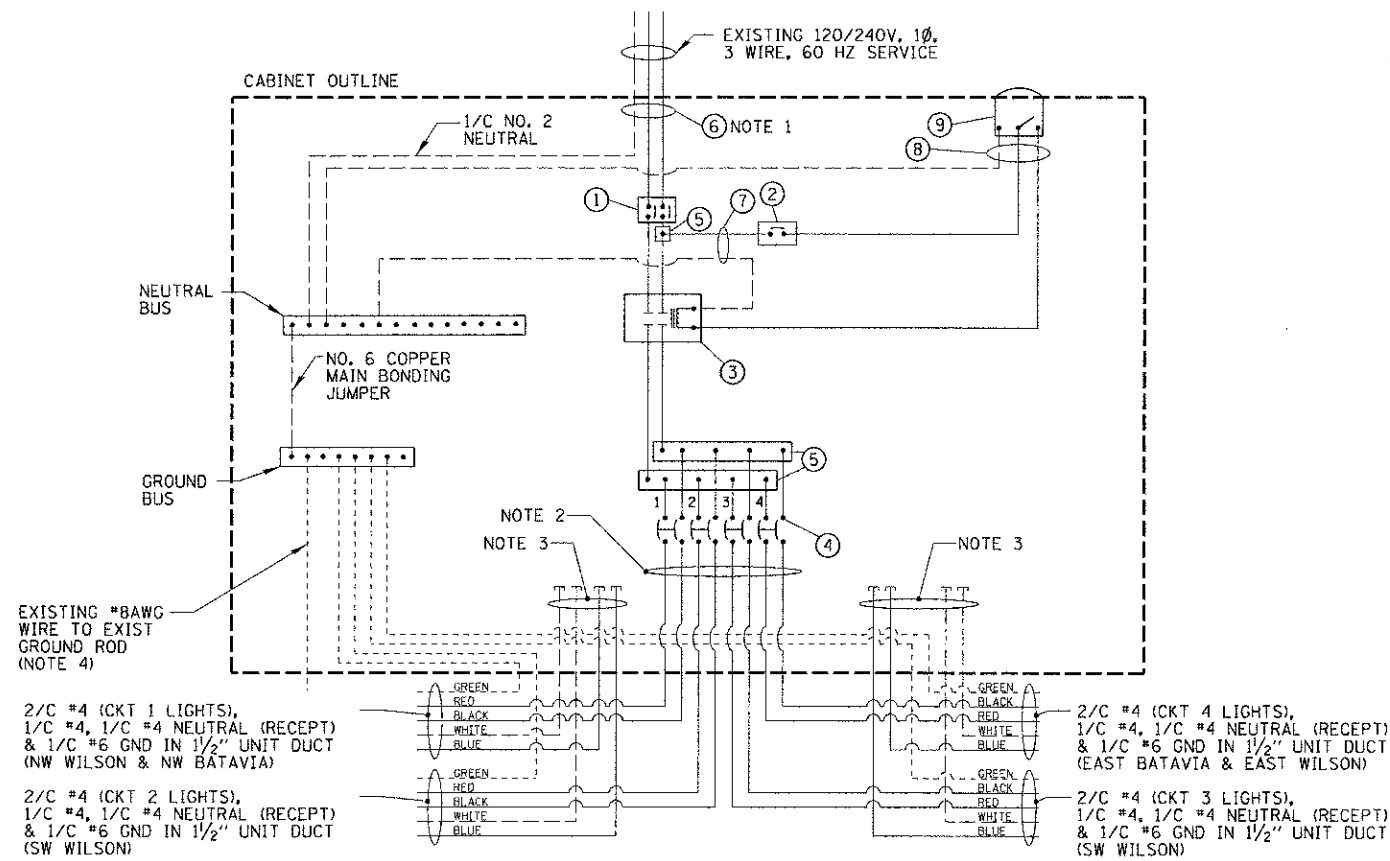
1. NO SPLICES IN HANDHOLES UNLESS OTHERWISE SHOWN. WHERE SHOWN, ALL SPLICES SHALL BE WATERPROOF. SEE SPLICING DETAIL.
2. POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREY.
3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS.

**POLYMER CONCRETE HANDHOLE**  
N.T.S.

<b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 823-0500	USER NAME = kbaldwin	DESIGNED <i>AJD</i>	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY LIGHTING DETAILS (5 OF 6)</b> <b>WILSON STREET</b>	F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 88	SHEET NO. 70
	PLOT SCALE = 20'	CHECKED <i>AJD</i>	REVISED -			SCALE: N.T.S.	SHEET OF 88 SHEETS	STA. TO STA.	CONTRACT NO. 63763	
	PLOT DATE = 10/22/2012	DATE 10/22/2012	REVISED -							

ITEM	SPECIFICATION	MANUFACTURER/MODEL NO. OR EQUAL
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240 V RATING, 22K AIC	SIEMENS NO. ED42B100
② PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120 V RATING, 22K AIC	SIEMENS NO. ED41B015
③ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, ELECT HELD	SQUARE D NO. 8903 S001 V02
④ BRANCH LINE CIRCUIT BREAKERS	4 - 30 AMPERE, 2P, 240 V RATING, 22K AIC	SIEMENS NO. ED42B030
⑤ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑥ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑦ CONTROL WIRE	2-600V MTW NO. 12	N/A
⑧ PHOTOELECTRIC CONTROL WIRE	3-600V MTW NO. 12	N/A
⑨ PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105

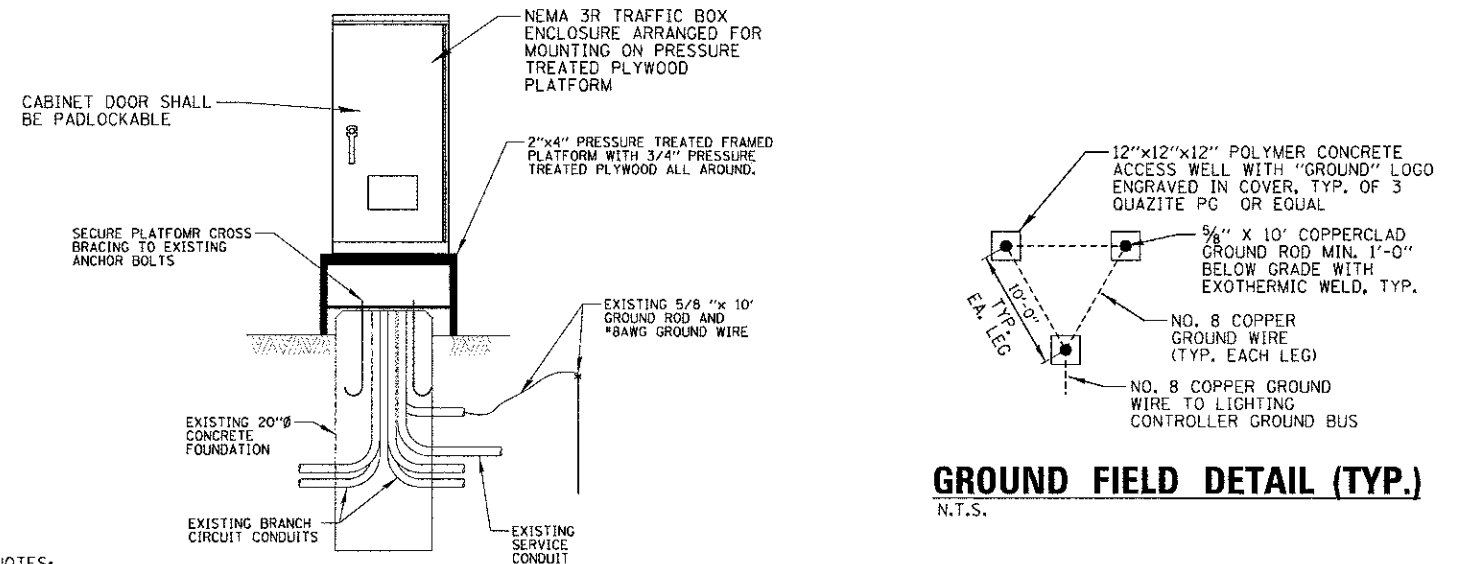
### TEMPORARY LIGHTING CONTROLLER COMPONENT SCHEDULE



- NOTES:
- RECONNECT EXISTING SERVICE CABLES.
  - RECONNECT EXISTING STREET LIGHTING CABLES.
  - CAP EXISTING FESTOON RECEPTACLE CABLES.
  - RECONNECT EXISTING GROUND CABLE.
- \_\_\_\_\_ PHASE CONDUCTOR  
 - - - - - NEUTRAL CONDUCTOR  
 ······· GROUND CONDUCTOR

### TEMPORARY LIGHTING CONTROLLER WIRING DETAIL

N.T.S.



### GROUND FIELD DETAIL (TYP.)

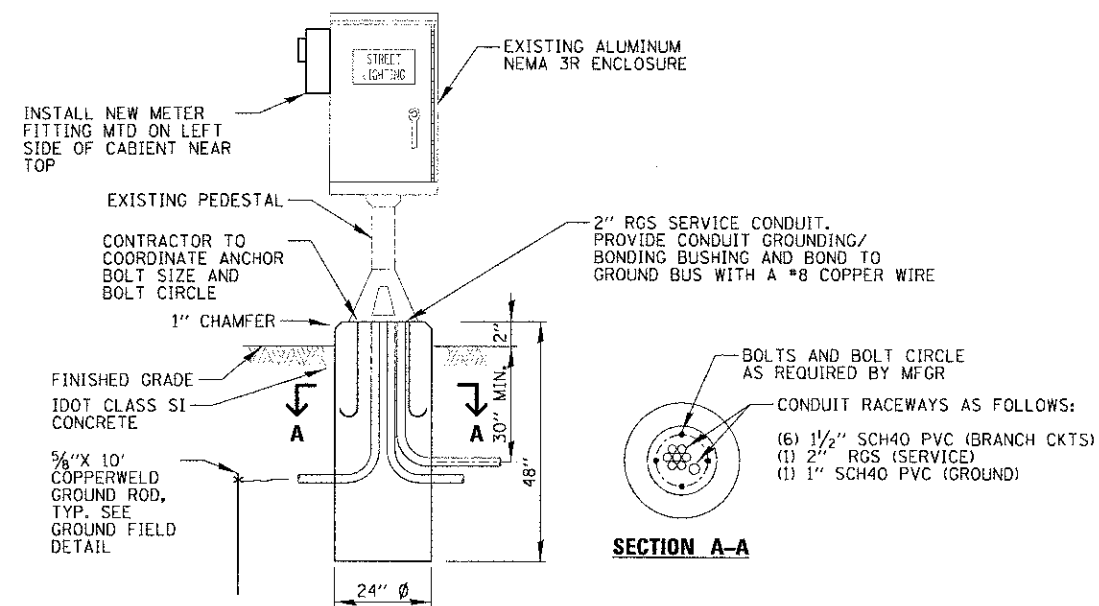
N.T.S.

NOTES:

- DISCONNECT AND REMOVE EXISTING PEDESTAL MOUNTED LIGHTING CONTROLLER.
- INSTALL AND CONNECT TEMPORARY LIGHTING CONTROLLER AS SHOWN SAME DAY.
- AFTER RELOCATED CONTROLLER HAS BEEN REINSTALLED AND CONNECTED, THE TEMPORARY CONTROLLER SHALL BE REMOVED. THE EXISTING CONCRETE FOUNDATION AND CONDUITS SHALL BE REMOVED TO AT LEAST 2 FEET BELOW GRADE AND DISPOSED OF. THE SERVICE CABLE SHALL BE REMOVED AND DISPOSED OF.

### TEMPORARY LIGHTING CONTROLLER CABINET DETAIL

N.T.S.



NOTES:

- INSTALL NEW CONCRETE FOUNDATION AND ANCHOR BOLTS.
- INSTALL NEW SERVICE CONDUIT AND WIRE.
- INSTALL NEW GROUND FIELD AND GROUND WIRE.
- INSTALL NEW METER FITTING ON CABINET AND NEW 3/C #2 WIRES TO MAIN BREAKER AND NEUTRAL BUS.
- REINSTALL EXISTING CABINET.
- INSTALL NEW CONDUIT EXTENSIONS FROM EXISTING CONTROLLER LOCATION.
- INSTALL NEW SPANS OF BRANCH CIRCUIT CABLES FROM RELOCATED CONTROLLER TO FIRST LIGHT POLE ON EACH CONDUIT RUN. CABLES SHALL BE CONNECTED TO SAME CIRCUITS AS EXISTING.

GENERAL SHEET NOTES:

- ALL WORK SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE "REMOVE AND RELOCATE LIGHTING SYSTEM" PAY ITEM, EXCEPT THE NEW ELECTRIC SERVICE INSTALLATION, SERVICE CONDUIT/WIRE, CONDUIT EXTENSIONS, AND NEW SPANS OF BRANCH CIRCUIT CABLES SHALL BE PAID FOR SEPARATELY.
- ALL EXISTING LIGHTING ON THIS SYSTEM SHALL BE OPERATIONAL EVERY NIGHT THROUGHOUT CONSTRUCTION.

### RELOCATED LIGHTING CONTROLLER CABINET AND FOUNDATION

N.T.S.

**CHRISTOPHER B. BURKE**  
ENGINEERING, LTD.  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME = kbalder	DESIGNED <i>AJD</i>	REVISED -
PLT SCALE = 20'	DRAWN <i>KWB</i>	REVISED -
PLT DATE = 10/22/2012	CHECKED <i>AJD</i>	REVISED -
	DATE <i>10/22/2012</i>	REVISED -






STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

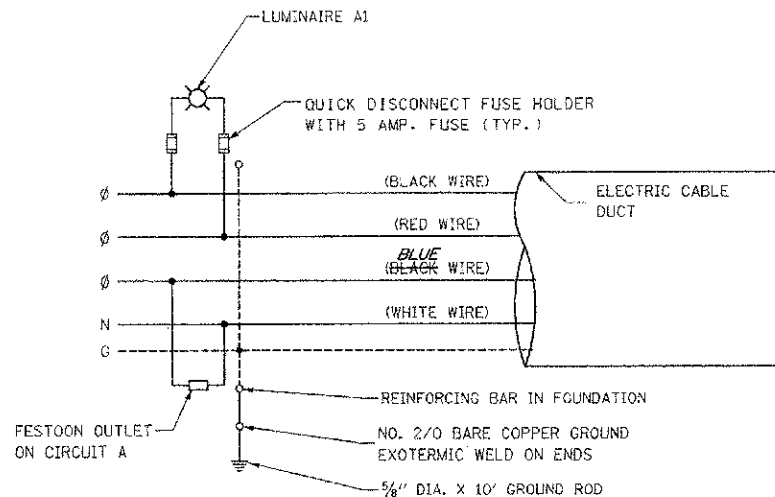
ROADWAY LIGHTING DETAILS (6 OF 6)  
WILSON STREET

SCALE: N.T.S. SHEET OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	71
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT	

**LEGEND AND SYMBOLS**

- 1-1/2" UNIT DUCT, 4-1/C NO. 4 A.W.G. (600V TYPE EPR) AND 1/C NO. 6 A.W.G. BARE COPPER GROUND, OR AS NOTED OTHERWISE
-  COMBINATION POLE LUMINAIRE
-  ROADWAY LUMINAIRE
-  GROUND ROD
-  HANDHOLE
-  DECORATIVE LUMINAIRE



**WIRING DETAIL**

NOT TO SCALE  
LUMINAIRE ON CIRCUIT B SIMILAR

**NOTE:**

1. ALL POLES TO BE GROUNDED USING 5/8" X 10'-0" LONG COPPER CLAD GROUND RODS

**ROADWAY LIGHTING SUMMARY OF QUANTITIES**

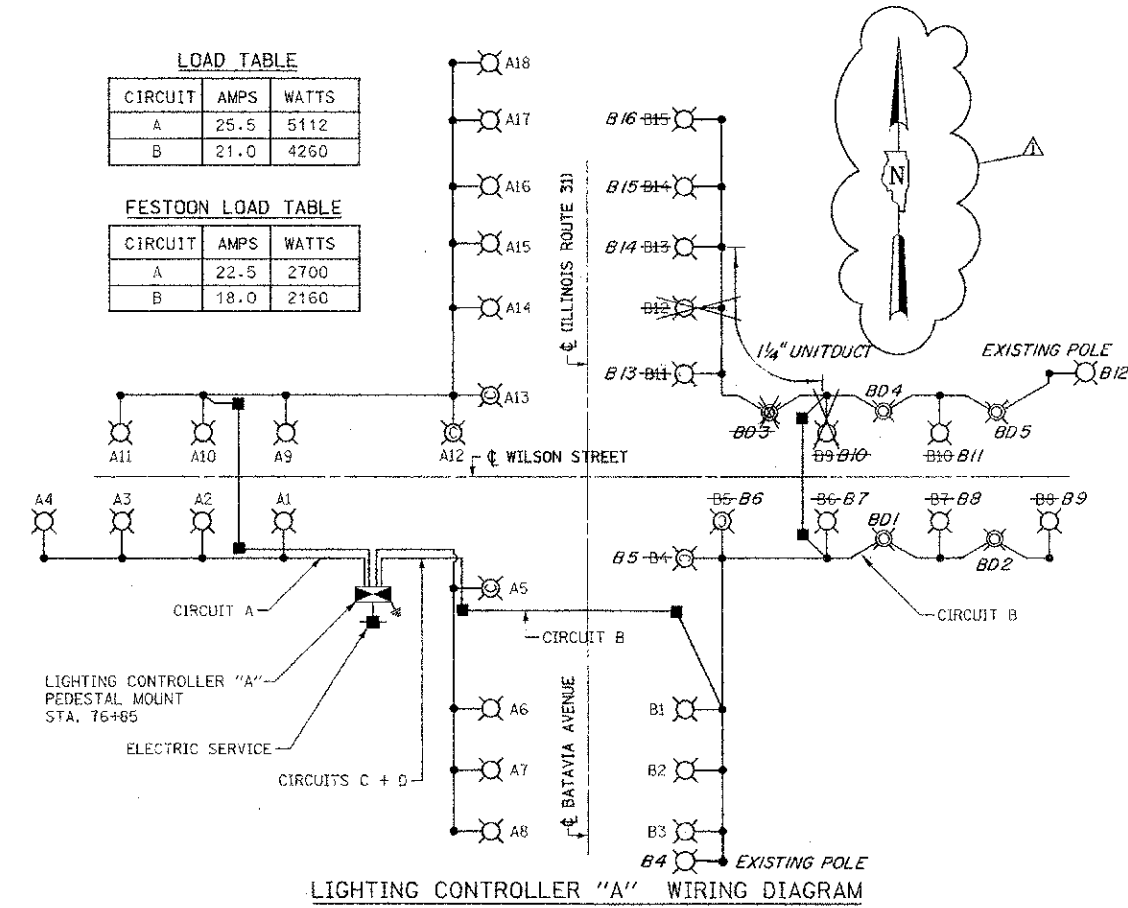
PAY ITEM NO.	DESIGNATION	ITEM QUANTITY		
		UNITS	CONTRACT TOTAL	RECORD TOTAL
86800100	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2600	
81000700	CONDUIT IN TRENCH, 2 1/2" DIA. GALVANIZED STEEL	FOOT	40	
81018600	CONDUIT PUSHED, 2 1/2" DIA. GALVANIZED STEEL	FOOT	10	
81018700	CONDUIT PUSHED, 3" DIA. GALVANIZED STEEL	FOOT	555	
81018800	CONDUIT PUSHED, 3 1/2" DIA. GALVANIZED STEEL	FOOT	25	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	220	
84402500	LUMINAIRE, SODIUM VAPOR, RECTILINEAR TYPE, 250 WATT	EACH	28	
86600100	ELECTRIC SERVICE INSTALLATION	EACH	1	
86600200	ELECTRIC UTILITY SERVICE CONNECTION	EACH	1	
	LIGHTING CONTROLLER, PEDESTAL MOUNT	EACH	1	
87200100	RELOCATE EXISTING LIGHTING UNIT	EACH	3	
87302385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3	
83100525	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	14	
80100140	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	23	
87100200	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	2	
87100200	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	12	
	UNIT DUCT, WITH 4-1/C NO. 4 AND 1/C NO. 6 GROUND, 600 V (EPR-TYPE RHW), 1 1/2" DIAMETER POLYETHYLENE	FOOT	3720	
82300720	AERIAL CABLE 3-1/C NO. 4, ALUMINUM, WITH MESSENGER WIRE	FOOT	2240	
	REMOVAL OF EXISTING LIGHTING CONTROLLER	EACH	1	
82201335	ELECTRIC CABLE IN CONDUIT, 600 V (EPR-TYPE USE), 3-1/C NO. 2/0	FOOT	25	
	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 W	EACH	17	
	TEMPORARY 15 FT. MAST ARM	EACH	3	
	TEMPORARY LIGHTING CONTROLLER	EACH	1	
83007500	LIGHT POLE, ALUMINUM, 35 FT. M.H., ANODIZED, 12 FT. MAST ARM	EACH	22	

**LOAD TABLE**

CIRCUIT	AMPS	WATTS
A	25.5	5112
B	21.0	4260

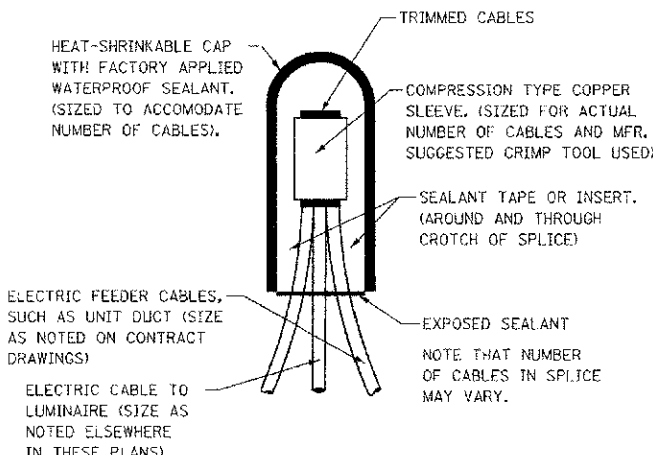
**FESTOON LOAD TABLE**

CIRCUIT	AMPS	WATTS
A	22.5	2700
B	18.0	2160



**LIGHTING CONTROLLER "A" WIRING DIAGRAM**

NOT TO SCALE



**CABLE SPLICING DETAIL**

NOT TO SCALE


**"AS-BUILTS"**

**REVISIONS**

NO.	NAME	DATE
1	AS SHOWN	05/28/97

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SUMMARY OF QUANTITIES AND WIRING DIAGRAM CONTROL CABINET "A" BATAVIA AVE. AT WILSON ST.**  
 SCALE: NO SCALE DRAWN BY: SD  
 DATE: 02/17/97 CHECKED BY: PKG

**RECORD DRAWING - JANUARY 26, 1998**

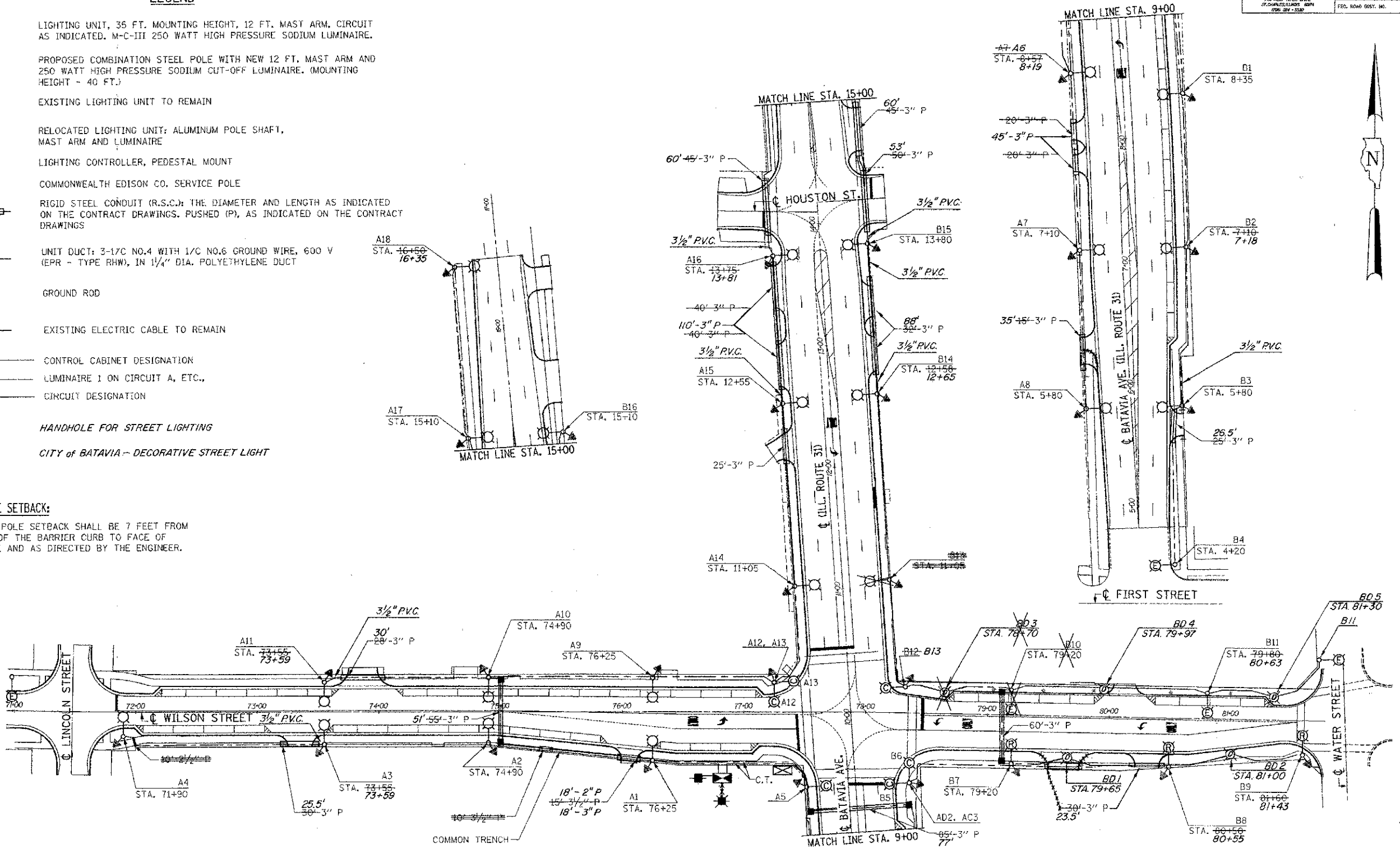
 GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 6035 N. NORTHWEST HIGHWAY  
 SUITE 120  
 CHICAGO, ILLINOIS 60631 TEL: (773) 714-5390



**LEGEND**

- LIGHTING UNIT, 35 FT. MOUNTING HEIGHT, 12 FT. MAST ARM, CIRCUIT AS INDICATED. M-C-III 250 WATT HIGH PRESSURE SODIUM LUMINAIRE.
- PROPOSED COMBINATION STEEL POLE WITH NEW 12 FT. MAST ARM AND 250 WATT HIGH PRESSURE SODIUM CUT-OFF LUMINAIRE. (MOUNTING HEIGHT - 40 FT.)
- EXISTING LIGHTING UNIT TO REMAIN
- RELOCATED LIGHTING UNIT: ALUMINUM POLE SHAFT, MAST ARM AND LUMINAIRE
- LIGHTING CONTROLLER, PEDESTAL MOUNT
- COMMONWEALTH EDISON CO. SERVICE POLE
- RIGID STEEL CONDUIT (R.S.C.): THE DIAMETER AND LENGTH AS INDICATED ON THE CONTRACT DRAWINGS. PUSHED (P), AS INDICATED ON THE CONTRACT DRAWINGS
- UNIT DUCT: 3-1/4 NO.4 WITH 1/4 NO.6 GROUND WIRE, 600 V (EPR - TYPE RHW), IN 1/4" DIA. POLYETHYLENE DUCT
- GROUND ROD
- EXISTING ELECTRIC CABLE TO REMAIN
- CONTROL CABINET DESIGNATION  
LUMINAIRE 1 ON CIRCUIT A, ETC.,  
CIRCUIT DESIGNATION
- HANDHOLE FOR STREET LIGHTING
- CITY of BATAVIA - DECORATIVE STREET LIGHT

**LIGHT POLE SETBACK:**  
THE LIGHT POLE SETBACK SHALL BE 7 FEET FROM THE BACK OF THE BARRIER CURB TO FACE OF LIGHT POLE AND AS DIRECTED BY THE ENGINEER.



"AS-BUILTS"

**GO** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5900

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LIGHTING PLAN  
BATAVIA AVENUE  
(ILLINOIS ROUTE 31)  
AT WILSON STREET

SCALE: 1" = 40'  
DATE: 07/03/97  
DRAWN BY: SD  
CHECKED BY: PKC

**RECORD DRAWING - JANUARY 26, 1998**

	USER: NISMC - Kbaladin	DESIGNED: AJD	REVISED: -
	CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	DRAWN: KWB	REVISED: -
	FLAT SCALE = 20'	CHECKED: AJD	REVISED: -
	DATE = 10/22/2012	DATE: 10/22/2012	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

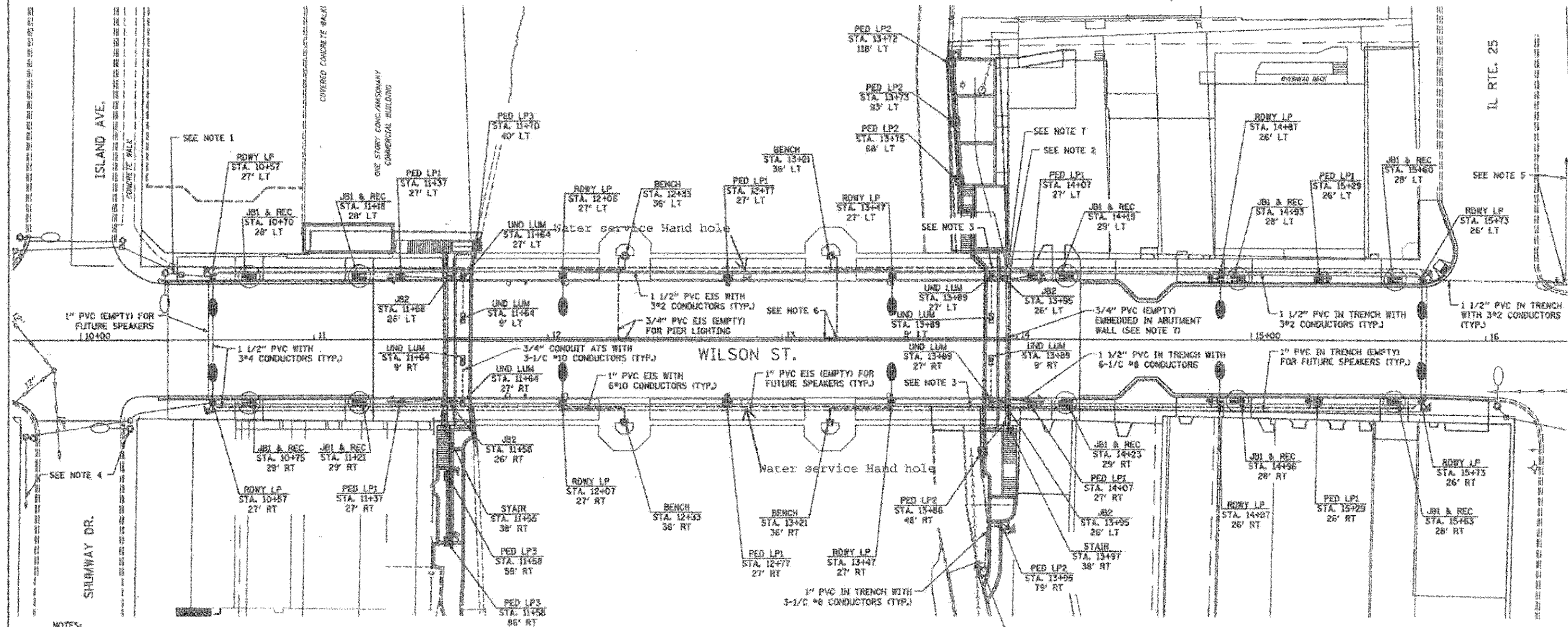
ROADWAY LIGHTING RECORD DRAWINGS (2 OF 4)  
WILSON STREET

SCALE: N.T.S. SHEET OF 88 SHEETS STA. TO STA.

F&D RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	73
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT	

F.A.U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	02-00059-00-05	KANE	154	145/154
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

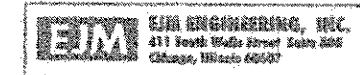
City of Batavia Future Irrigation System, begins at Northeast Abutment stem wall



NOTES:

1. SPLICE 3-1/2" #2 CONDUCTORS INSIDE EXISTING POLE AND RUN THROUGH EXISTING CONDUIT THROUGH EXISTING MANHOLE TO PROPOSED POLE BASE.
2. PROVIDE CONDUIT EXPANSION/DEFLECTION COUPLING BETWEEN TRANSITION FROM CONDUIT EMBEDDED IN STRUCTURE TO CONDUIT IN TRENCH. REPEAT THIS AT EACH CONDUIT TRANSITION AT ALL FOUR CORNERS OF THE BRIDGE (TOTAL OF 12). THIS COUPLING WORK IS CONSIDERED INCIDENTAL TO CONDUIT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. 1 1/2" CONDUIT (EMPTY). THIS CONDUIT PROVIDED FOR FUTURE RE-WIRING OPTIONS.
4. REMOVE EXISTING SERVICE (3-1/2" #2) CABLES FROM EXISTING POLE TO EXISTING TRANSFORMER APPROX. 200' SOUTH OF WILSON AVE. REPLACE THESE SERVICE CABLES WITH 2-1/2" #1/0 AND 1-1/2" #6 (GROUND) CONDUCTORS IN EXISTING CONDUIT.
5. REMOVE EXISTING SERVICE (3-1/2" #2) CABLES FROM EXISTING POLE TO EXISTING TRANSFORMER APPROX. 500' NORTH OF WILSON AVE. REPLACE THESE SERVICE CABLES WITH 2-1/2" #1/0 AND 1-1/2" #6 (GROUND) CONDUCTORS FROM EXISTING POLE TO AN EXISTING HANDHOLE 200' NORTH OF WILSON AVE IN EXISTING CONDUIT. FROM THIS HANDHOLE, RUN 2-1/2" #3/0 SERVICE CABLES THE REST OF THE WAY TO THE EXISTING TRANSFORMER IN THE EXISTING CONDUIT. EXISTING 1/2" #2 GROUND WIRE IS TO REMAIN IN PLACE.
6. EMPTY 3/4" PVC CONDUIT EMBEDDED IN BRIDGE DECK AS SHOWN FOR PIER LIGHTING. CONDUIT TO STUB OUT 3" FROM BOTTOM OF THE BRIDGE DECK FOR PIER LIGHTING. PIER LIGHTING LUMINAIRE INSTALLATION, WIRING AND CONDUIT CONNECTIONS ARE TO BE DONE BY OTHERS BUT NEED TO BE COORDINATED.
7. EMPTY 3/4" PVC CONDUIT EMBEDDED IN ABUTMENT WALL AS SHOWN FOR PIER LIGHTING. CONDUIT TO STUB OUT 3" FROM ABUTMENT WALL FOR PIER LIGHTING. ADDITIONAL EMPTY 3/4" PVC CONDUIT TO BE RUN PARALLEL FROM JUNCTION BOX MOUNTED ON EITHER END OF THE ABUTMENT WALLS TO STUB OUT OF THE ABUTMENT WALL 3" FOR POWER SUPPLY AS SHOWN.

1" Irrigation conduit empty for future  
 2" Irrigation conduit empty for future



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 WILSON STREET  
 PROPOSED LIGHTING PLAN

SCALE: 1"=20'  
 DATE: 09/28/08

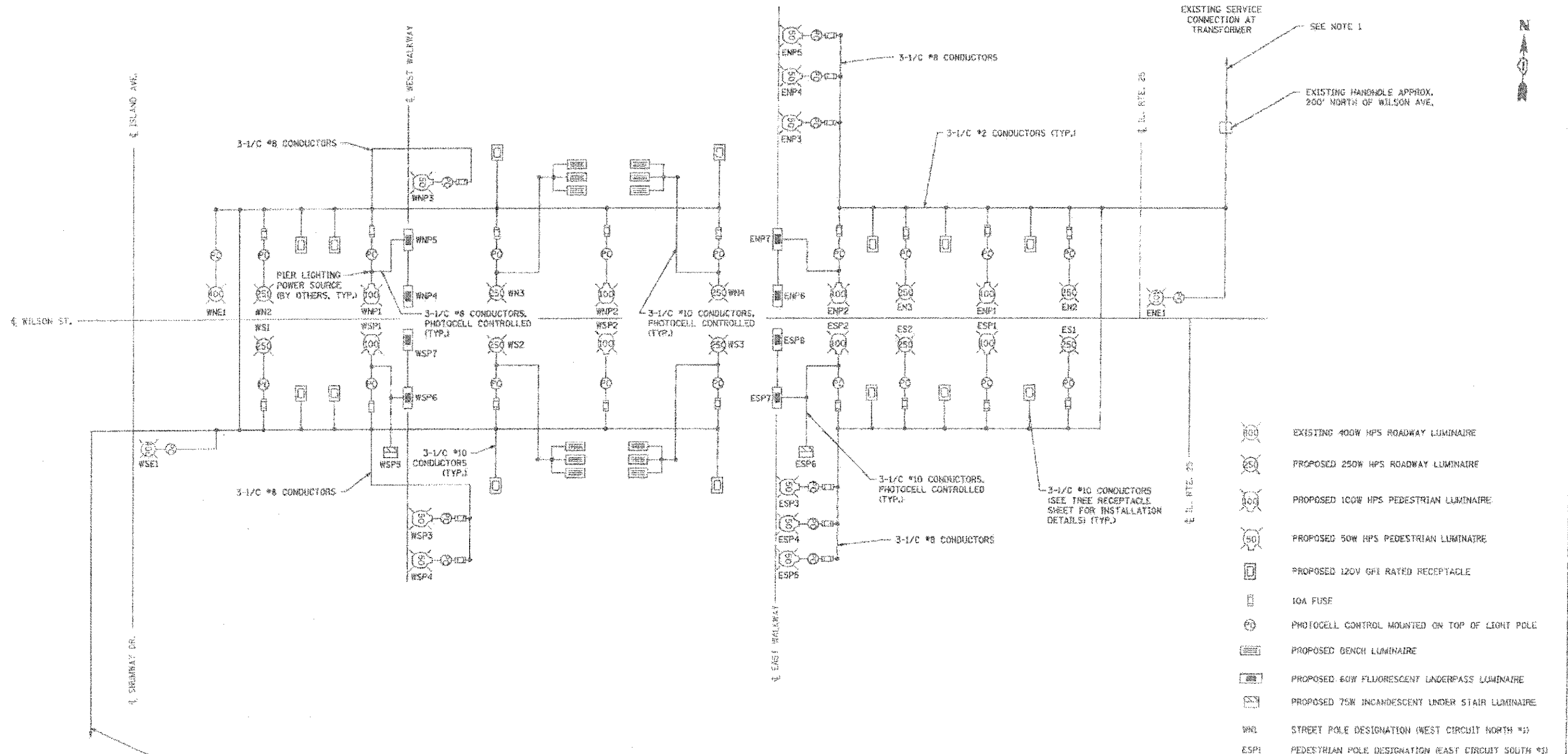
DRAWN BY: JDM  
 CHECKED BY: RS

<p><b>CHRISTOPHER B. BURKE</b>                  ENGINEERS, LTD.                  9575 W. Higgins Road, Suite 600                  Rosemont, Illinois 60018                  (847) 823-0500</p>	USER NAME: kboldwin	DESIGNED: A/JD	REVISED: -
	PLOT SCALE: 20'	DRAWN: KWB	REVISED: -
	PLOT DATE: 10/22/2012	CHECKED: A/JD	REVISED: -
		DATE: 10/22/2012	REVISED: -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING RECORD DRAWINGS (3 OF 4)		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
WILSON STREET		1441	12-00073-01-TL	KANE	88	74
SCALE: N.T.S.		SHEET OF 88 SHEETS		STA.	TO STA.	
				ILLINOIS FED. AID PROJECT		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441 00-0000-03-BR	KANE	134	140
STA. TO STA.			
ILLINOIS FED. AID PROJECT			

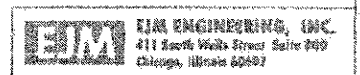


- EXISTING 400W HPS ROADWAY LUMINAIRE
- PROPOSED 250W HPS ROADWAY LUMINAIRE
- PROPOSED 100W HPS PEDESTRIAN LUMINAIRE
- PROPOSED 50W HPS PEDESTRIAN LUMINAIRE
- PROPOSED 120V GFI RATED RECEPTACLE
- 10A FUSE
- PHOTOCELL CONTROL MOUNTED ON TOP OF LIGHT POLE
- PROPOSED BENCH LUMINAIRE
- PROPOSED 60W FLUORESCENT UNDERPASS LUMINAIRE
- PROPOSED 75W INCANDESCENT UNDER STAIR LUMINAIRE
- WNL STREET POLE DESIGNATION (WEST CIRCUIT NORTH #1)
- ESP1 PEDESTRIAN POLE DESIGNATION (EAST CIRCUIT SOUTH #1)

CIRCUIT	LOAD
WEST	75.72 A
EAST	68.40 A

- NOTES:**
- CONTRACTOR TO REPLACE CABLE FROM TRANSFORMER TO HANDHOLE AND CONNECT TO TRANSFORMER WITH NEW FUSES AS DIRECTED BY THE BATAVIA ELECTRICAL DEPARTMENT.
  - CONTRACTOR TO REPLACE CABLE FROM TRANSFORMER TO LIGHT POLE WSE1 AND CONNECT TO TRANSFORMER WITH NEW FUSES AS DIRECTED BY THE BATAVIA ELECTRICAL DEPARTMENT.

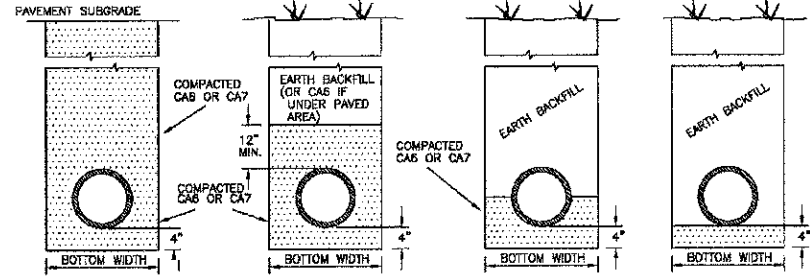
REVISIONS	DATE



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**WILSON STREET**  
**WIRING DIAGRAM**  
 SCALE: AS SHOWN  
 DATE: 09/28/06  
 DRAWN BY: JDM  
 CHECKED BY: AS

# STANDARD TRENCH SECTIONS

1. BOTTOM WIDTH: PIPE SIZES UP TO 24" USE I.D. PLUS 20" OVER 24" USE O.D. PLUS 24"
2. WHERE USED, EARTH BACKFILL SHALL BE JETTED IN PLACE
3. WHERE CROSSING EXISTING ROADWAY CONTROLLED LOW STRENGTH MATERIAL SHALL BE USED WITH A MINIMUM ASPHALT PATCH OF 8" SANITARY MAIN BETWEEN DEPTHS OF SIX FEET (6') AND FOURTEEN FEET (14') PVC PIPE SDR 26 SHALL BE REQUIRED. FOR DEPTHS OF LESS THAN SIX FEET (6') AND GREATER THAN FOURTEEN FEET (14') DUCTILE IRON PIPE CLASS 52 WITH PUSH ON JOINT SHALL BE REQUIRED.
4. SANITARY MAIN BETWEEN DEPTHS OF SIX FEET (6') AND FOURTEEN FEET (14') DUCTILE IRON PIPE CLASS 52 WITH PUSH ON JOINT SHALL BE REQUIRED.

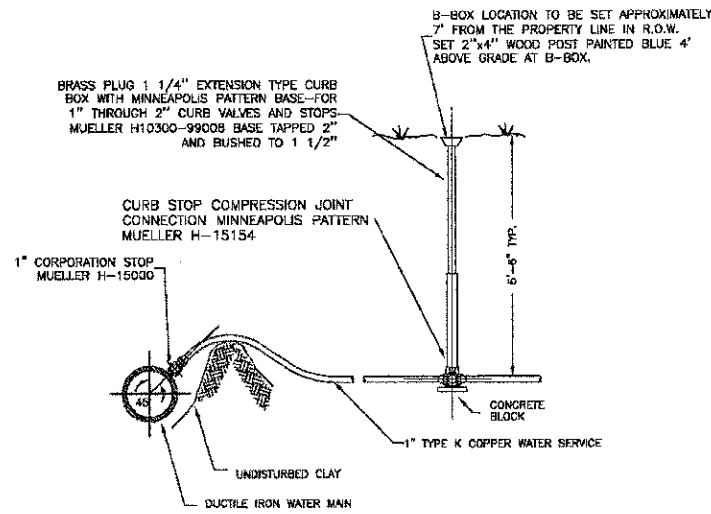


WATER, SANITARY & STORM MAINS  
PAVED AREAS

SANITARY & STORM PVC  
UNPAVED AREAS

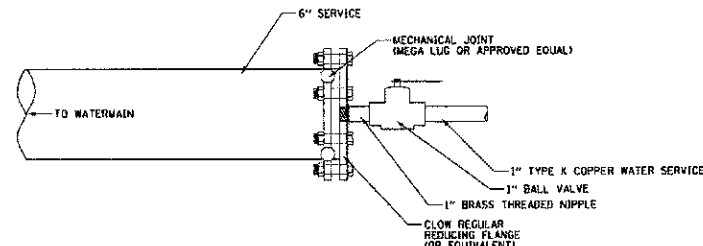
STORM RCP  
UNPAVED AREAS

WATER MAIN  
UNPAVED AREAS



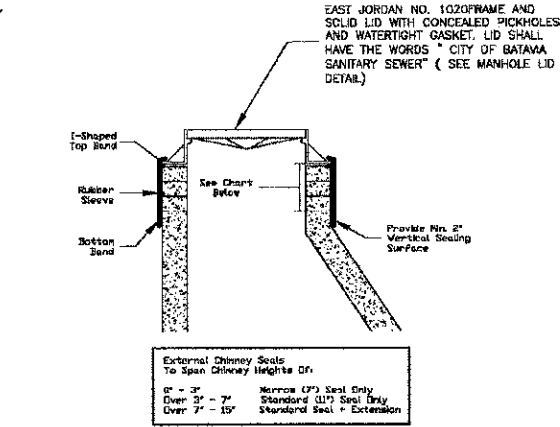
WATER SERVICE LINE SHALL BE IN A SEPARATE TRENCH 10 FT. FROM THE SANITARY SEWER SERVICE LINE OR IF IN THE SAME TRENCH ON A SHELVE 18" MIN. ABOVE THE SEWER LINE. IN WHICH CASE THE SEWER PIPE MATERIAL SHALL BE DUCTILE IRON OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS.

## WATER SERVICE DETAIL



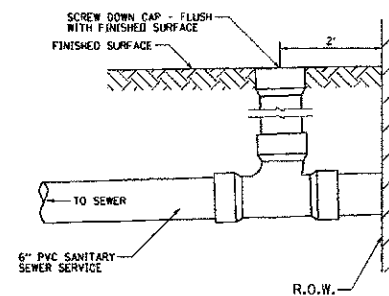
INSTALLATION OF 1" COPPER SERVICE LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE WATER SERVICE DETAIL. THE COST FOR FURNISHING AND INSTALLING THE REGULAR REDUCING FLANGE, BRASS NIPPLE, AND 1" TYPE K COPPER SERVICE LINE SHALL BE INCLUDED IN THE COST OF 6" WATER MAIN

## 6" WATER SERVICE CONNECTION DETAIL



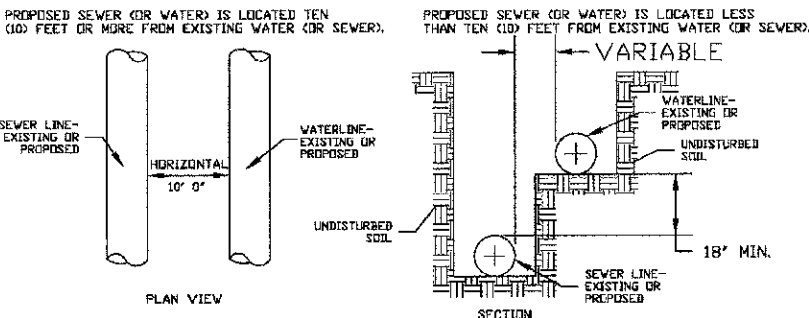
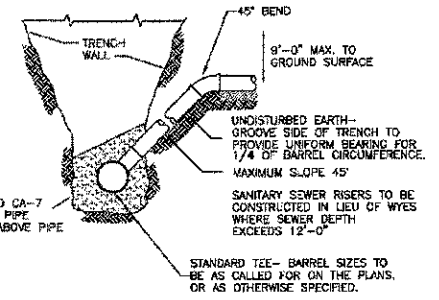
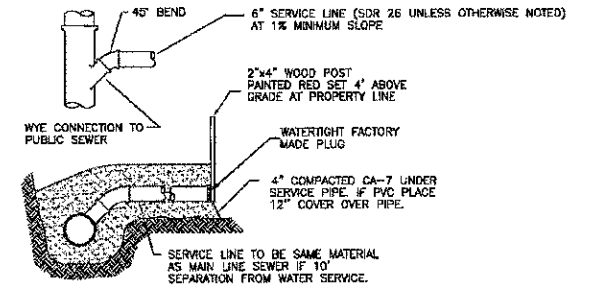
NOTES:  
External Chimney Seals shall be installed on all Sanitary Sewer Manholes.  
External Chimney Seals shall be the "SURSEAL" as manufactured by Mar Mac Construction Products, Inc. or Pre-Approved Equal.  
Chimney Seals shall be installed in accordance with the Manufacturer's Instructions.

## EXTERNAL CHIMNEY SEAL DETAIL

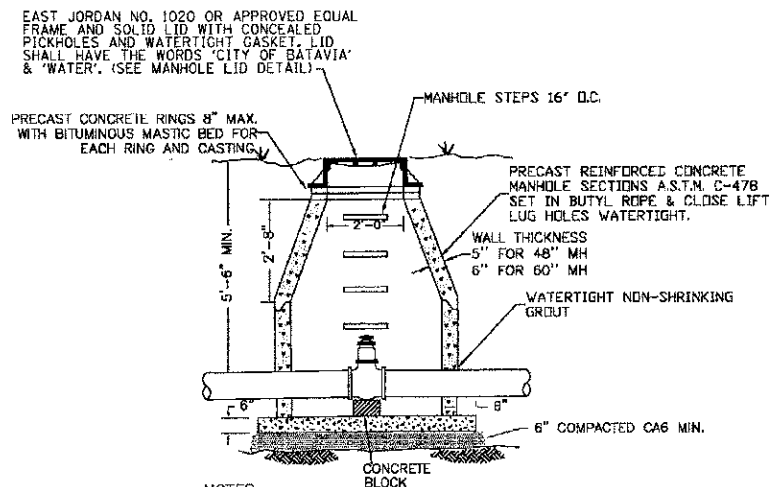


## SANITARY SERVICE CLEANOUT DETAIL

## SANITARY SEWER SERVICE AND SERVICE RISER

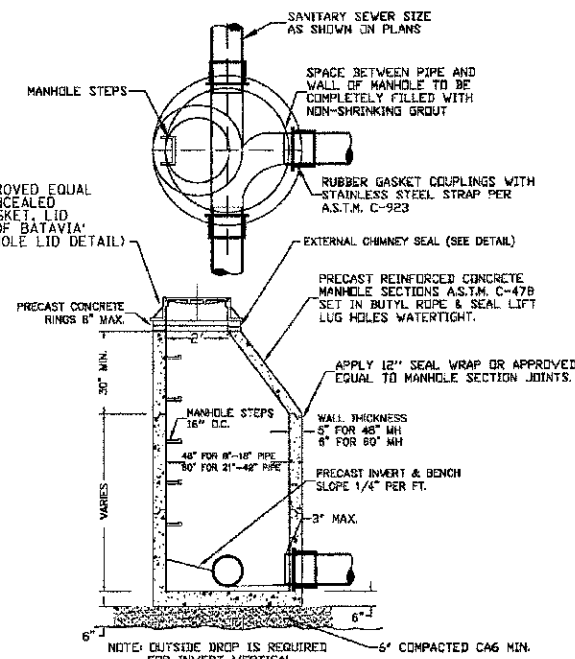


## WATER AND SEWER SEPARATION DETAIL

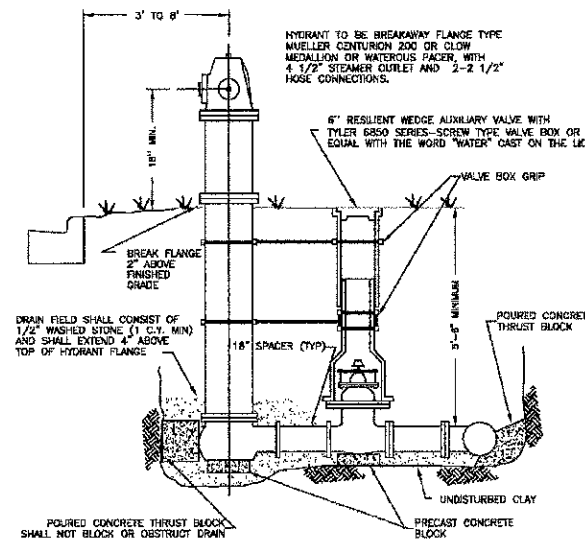


- NOTES:
1. VALVE VAULT OPENING SHALL BE CENTERED OVER VALVE & CASTING TO BE SET AT FINISH GRADE AS SHOWN ON PLANS.
  2. INSIDE DIAMETER SHALL BE 48" FOR WATER MAIN 6" THROUGH 10" AND 60" FOR WATER MAIN 12" AND OVER
  3. VALVES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANNA OSGOOD AND SHALL BE MUELLER, WATERLOUS, CLOW OR APPROVED EQUAL.
  4. ALL NUTS AND BOLTS ON VALVE ARE TO BE STAINLESS STEEL.
  5. MEG-A-LUGS SHALL BE USED.

## WATER VALVE VAULT DETAIL

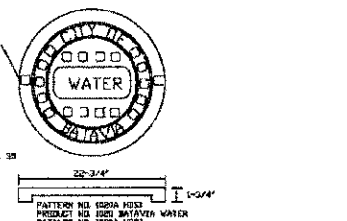
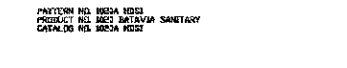
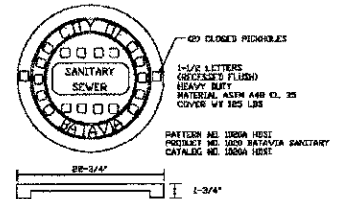


## SANITARY SEWER MANHOLE



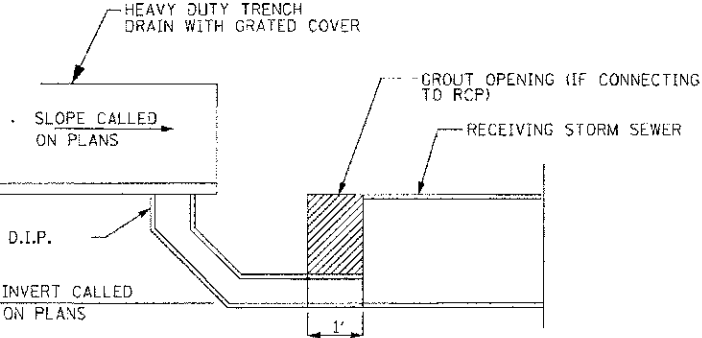
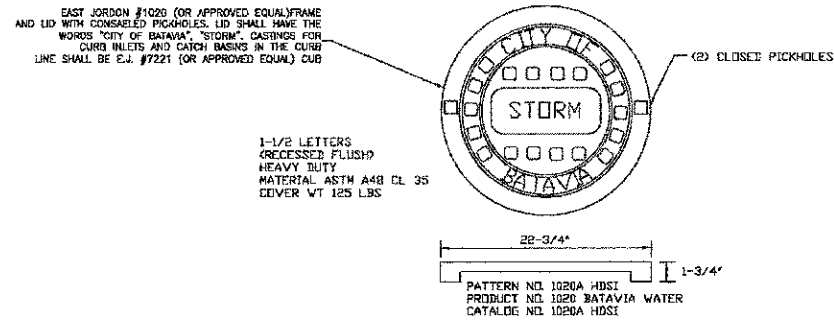
- NOTES:
1. HYDRANT, VALVE AND TEE SHALL BE SECURELY TIED TOGETHER WITH MEG-A-LUGS AND POURED CONCRETE THRUST BLOCKS.
  2. ALL NUTS AND BOLTS ON HYDRANTS AND VALVES ARE TO BE STAINLESS STEEL.
  3. HYDRANT AND VALVE ARE TO BE SET PLUMB AT THE ELEVATION SHOWN ON PLANS.
  4. HYDRANT SHALL HAVE TWO COATS OF PAINT MATCHING THE CITY STANDARD FOR COLOR, COMMONLY KNOWN AS "PARROT GREEN", THEMEC PAINT CORPORATION NO. 61499 OR WATERLOUS COLOR BY SIERRA PAINT CORPORATION NO. 6590-M-4188 AND SHALL HAVE "HYDRANTER STANDARD" HYDRANT LOCATOR.

## FIRE HYDRANT



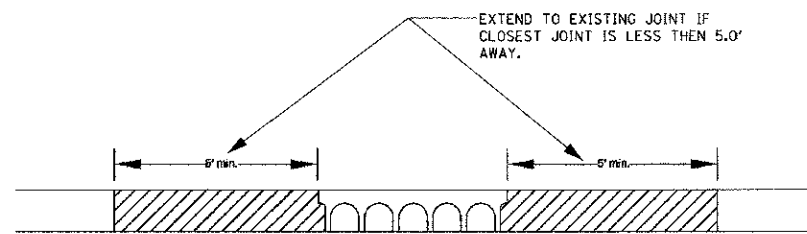
## MANHOLE LID DETAIL

### MANHOLE LID DETAIL

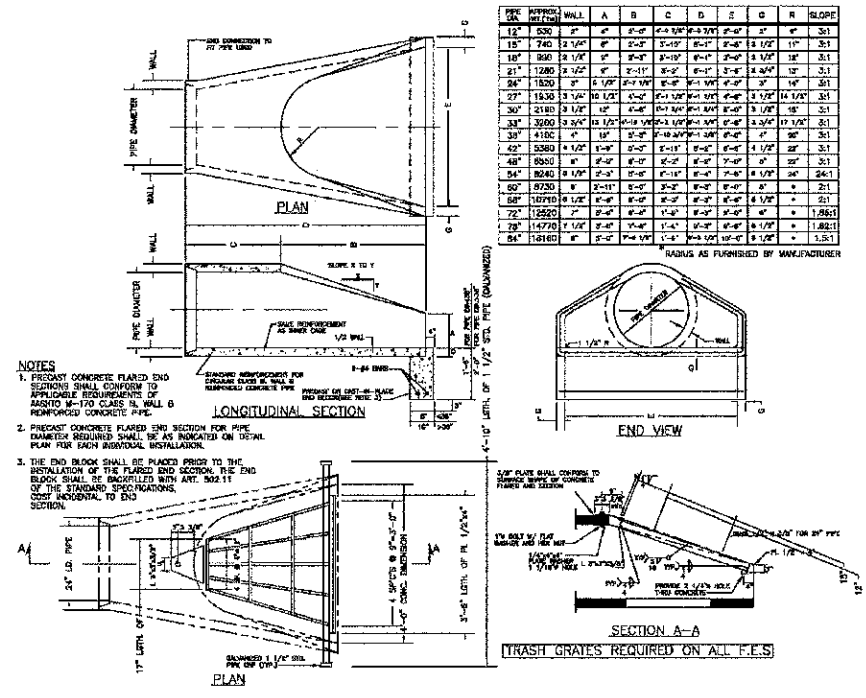


NOTE: CONNECTION TO DI STORM SEWER SHALL BE MADE USING APPROPRIATE REDUCING FITTINGS

### CURB REMOVAL AND REPLACEMENT AT INLETS

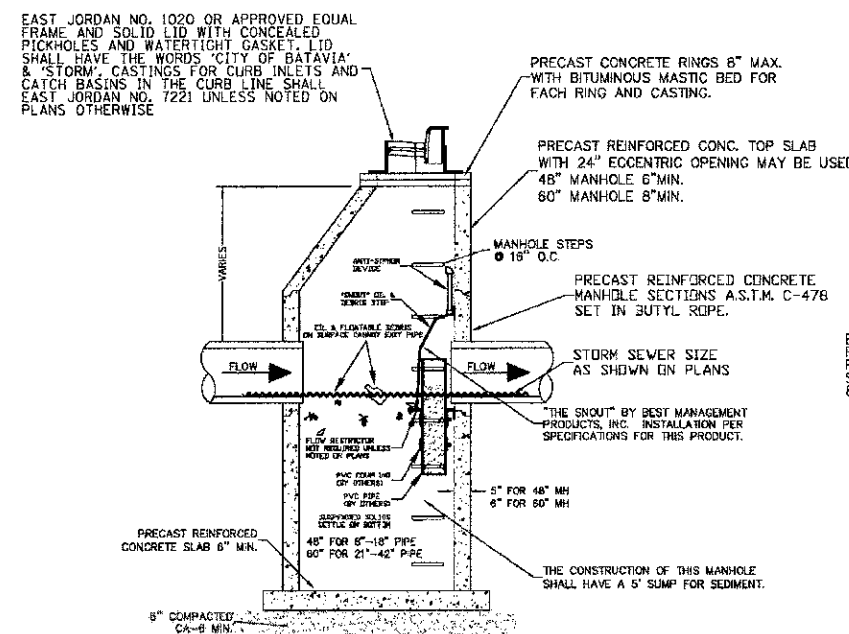


### FLARED END SECTION



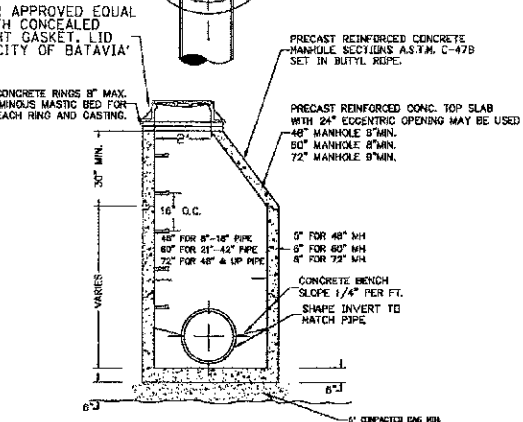
NOTES:  
1. PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF ASTM 1547 CLASS II, WALL & REINFORCED CONCRETE PIPE.  
2. PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.  
3. THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED WITH ART. 502.11 OF THE STANDARD SPECIFICATIONS, COST INCIDENTAL TO END SECTION.

### TRENCH DRAIN OUTLET DETAIL

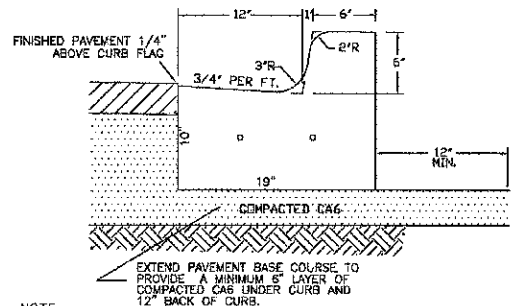


NOTES:  
A. CATCH BASIN-GRIT OIL STOPS ON ALL STORM SEWERS 42\"/>

### CATCH BASIN-GRIT OIL STOPS

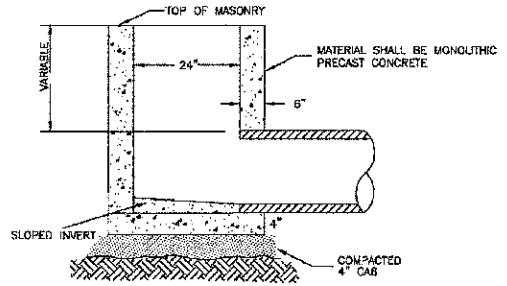


### STORM SEWER MANHOLE



NOTE:  
2 - NO. 5 REBARS CONTINUOUS AND 2 - 3/4\"/>

### B6.12 CURB & GUTTER

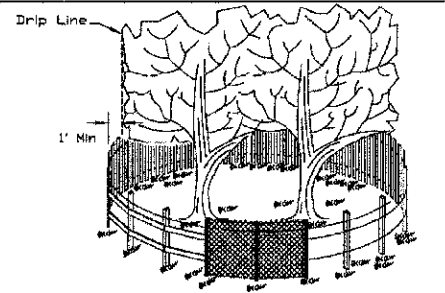


PRE-CAST REINFORCED CONCRETE RISER RINGS SHALL COMPLY WITH ASTM C-39. ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. USE EAST JORDAN NO. 7221-M FOR FRAME & GRATE OR APPROVED EQUAL. IN CURB LINE INLETS & MANHOLES, USE EAST JORDAN NO. 9527 GRATE OR APPROVED EQUAL FOR ALL INLETS IN NON-PAVED LOCATIONS. USE EAST JORDAN NO. 1020 FRAME & LID OR APPROVED EQUAL FOR ALL JUNCTION BOXES.

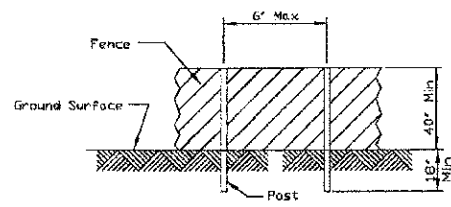
### INLET TYPE A



TREE PROTECTION - FENCING



SIDE VIEW



POST AND FENCE DETAIL

- NOTES:
1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
  2. Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
  3. The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE	STANDARD DWG. NO.
Project _____	IL-690
Designed _____	SHEET 1 OF 1
Checked _____	DATE 4-7-94
Approved _____	



PLEXSTORM Inlet Filter Specifications		
Material Property	Test Method	Value (size)
WOVEN Geotextile Sediment Bag Grates (2 ft <sup>2</sup> /ft)		
Grate Tensile	ASTM D 4632	235 x 275
Puncture Strength	ASTM D 4633	135 lbs
Trapezoidal Tear	ASTM D 4633	75 lbs
UV Resistance	ASTM D 4355	80%
App. Open Size (AOS)	ASTM D 4751	20 sieve
Permeability	ASTM D 4481	1.5 / sec
Water Flow Rate	ASTM D 4481	200 gpm/sqft
Sediment Removal Efficiency (8% min)	ASTM D 7351	82%

INSTALLATION:  
 1. REMOVE GRATE  
 2. DROP PLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE  
 3. REPLACE GRATE

ALL PRODUCTS MANUFACTURED BY PLEXSTORM, INC. DISTRIBUTED BY AAS WWW.PLEXSTORM.COM (866) 287-8555 PH (800) 272-2477 FX INFO@PLEXSTORM.COM

**CB** CHRISTOPHER B. BURKE ENGINEERING, LTD.  
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 Rosemont, Illinois 60018  
 (847) 823-0500

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 DRAWN *MAK*  
 CHECKED *LMF*  
 DATE \_\_\_\_\_

DESIGNED *CJM*  
 DRAWN *MAK*  
 CHECKED *LMF*  
 DATE \_\_\_\_\_

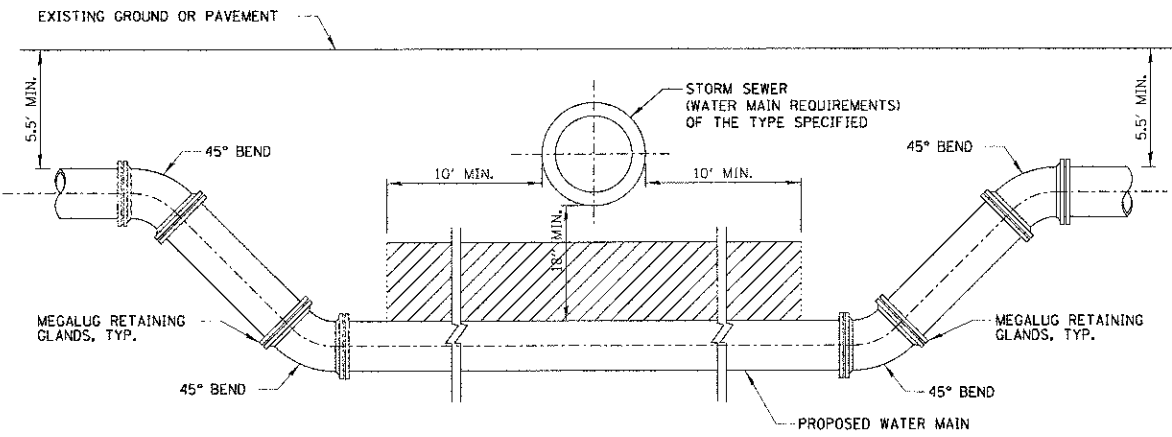
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL  
 CONSTRUCTION DETAILS

SCALE: NTS SHEET 78 OF 88 SHEETS STA. TO STA.

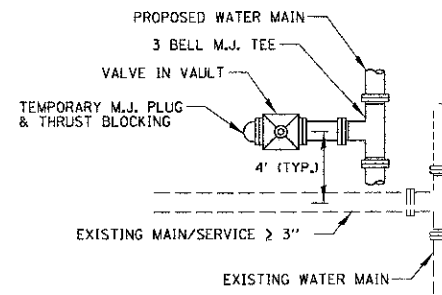
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	78
CONTRACT NO. 63763				
ILLINOIS FED. AID PROJECT				



- NOTE:
1. OMIT GRANULAR CRADLE FOR PROPOSED WATER MAIN
  2. PLACE 1.0' OF CLASS IV MATERIAL OVER THE LENGTH OF THE WATER MAIN AND COMPACT TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.
  3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.

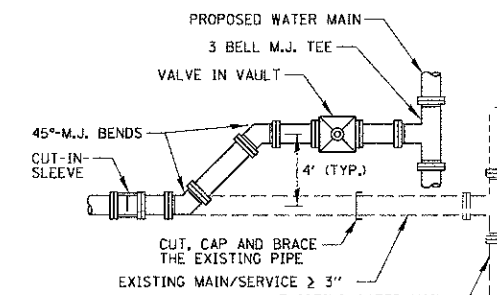
**PROPOSED WATER MAIN BELOW EXISTING SEWER**

N.T.S.



**INSTALLATION**

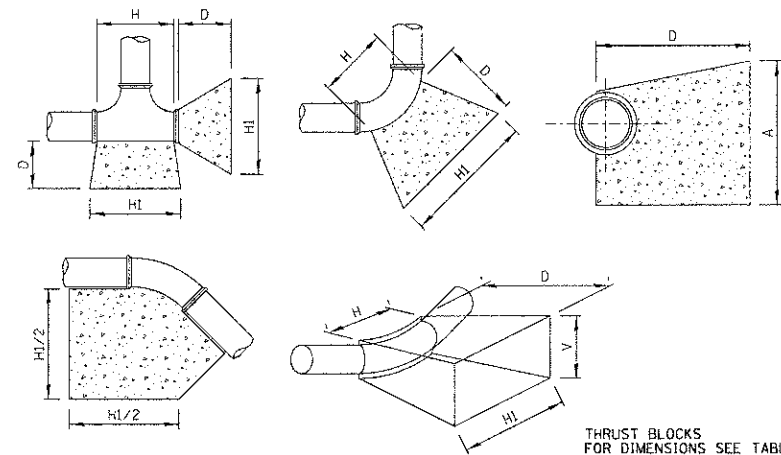
- NOTES:
1. AFTER THE EXISTING WATER MAIN OR SERVICE IS CUT AT THE NOTED LOCATION, CONTRACTOR SHALL DETERMINE THE DISTANCE TO THE NEXT JOINT WITH A FEELER ROD. IF THE DISTANCE IS SIX (6) FEET OR MORE, THAN COMPLETE THE CONNECTION IF THAT DISTANCE IS LESS THAN SIX (6) FEET, EXTEND THE NEW PIPE AND CONNECT.
  2. AFTER THE NEW WATER MAIN IS APPROVED, CUT, CAP AND BRACE THE EXISTING MAIN SERVICE. REMOVE TEMPORARY PLUG AND CONNECT MAIN SERVICE TO THE VALVE. SWAB THE NEW PIPE WITH 1% HTH CHLORINE SOLUTION DURING THE INSTALLATION.
  3. MEGALUGS OR APPROVED EQUAL TO BE USED WITH ALL M.J. FITTINGS.



**RECONNECTION**

**WATER MAIN/SERVICE INSTALLATION AND RECONNECTION**

N.T.S.



SIZE OF PIPE	TAPPING TEES, SLEEVES AND PLUGS				90° BENDS				45° BENDS OR LESS						
	HI	H	V	D	C. FT.	HI	H	V	D	C. FT.	HI	H	V	D	C. FT.
12"	54"	30"	24"	24"	13.40	54"	32"	36"	36"	18.15	42"	18"	24"	24"	9.60
8"	36"	18"	18"	18"	5.05	39"	18"	24"	18"	7.50	30"	11"	18"	18"	3.95
6"	24"	16"	18"	18"	3.50	30"	16"	18"	18"	4.05	24"	10"	16"	18"	3.20
4"	20"	13"	15"	15"	2.15	24"	12"	13"	13"	1.75	20"	8"	12"	12"	1.20

**WATER MAIN THRUST BLOCKING - TABLE A**

N.T.S.

- NOTE:
1. THRUST BLOCKING TO BE INSTALLED AT ALL HORIZONTAL AND VERTICAL BENDS, CAPS, VALVES, HYDRANTS AND AT LOCATIONS DIRECTED BY ENGINEER. THRUST BLOCK TO BE PRE-CAST PORTLAND CEMENT CONCRETE, PLACED BETWEEN SOLID GROUND AND FITTING, AND SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTING WILL BE ACCESSABLE FOR REPAIR. ALL ENDS OD 1/4" OR MORE, ALL TEES AND ALL PLUGS SHALL BE PROTECTED AS SHOWN, WHERE CONDITIONS PREVENT THE USE OF CONCRETE THRUST BLOCKS, RESTRAINED JOINTS OF A TYPE APPROVED BY THE ENGINEER MAY BE USED.
  2. ALL CONCRETE THRUST BLOCKS SHALL HAVE BENT REBAR WHICH IS INCIDENTAL TO THE WATER MAIN.

**CB** CHRISTOPHER B. BURKE  
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USER NAME = cburke1  
DESIGNED CJM  
DRAWN MAK  
CHECKED LMF  
DATE -

PL01 DATE = 10/23/2012

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REVISED -  
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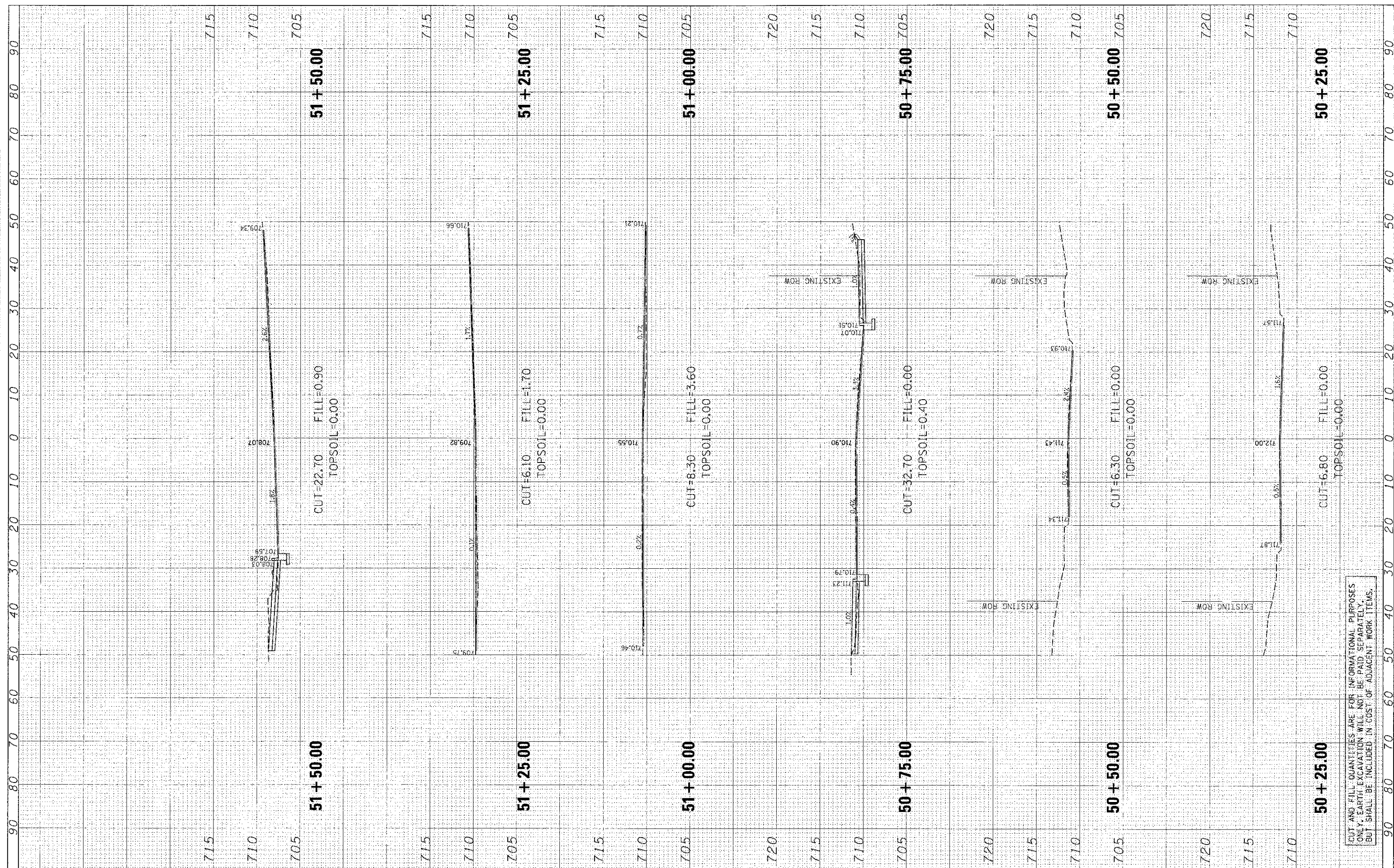
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WATER MAIN  
CONSTRUCTION DETAILS  
SCALE: NTS SHEET 79 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	79
CONTRACT NO. 63763				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY  
 CHECKED BY: [ ]  
 DATE: [ ]  
 NOTE BOOK: [ ]  
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 AREAS CHECKED: [ ]

ORIGINAL SURVEY  
 CHECKED BY: [ ]  
 DATE: [ ]  
 NOTE BOOK: [ ]  
 AREAS: [ ]  
 AREAS CHECKED: [ ]



CUT AND FILL QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. EARTH EXCAVATION WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN COST OF ADJACENT WORK ITEMS.

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 DATE: -

REVISIONS:  
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 REVISION 2: [ ]  
 REVISION 3: [ ]  
 REVISION 4: [ ]

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

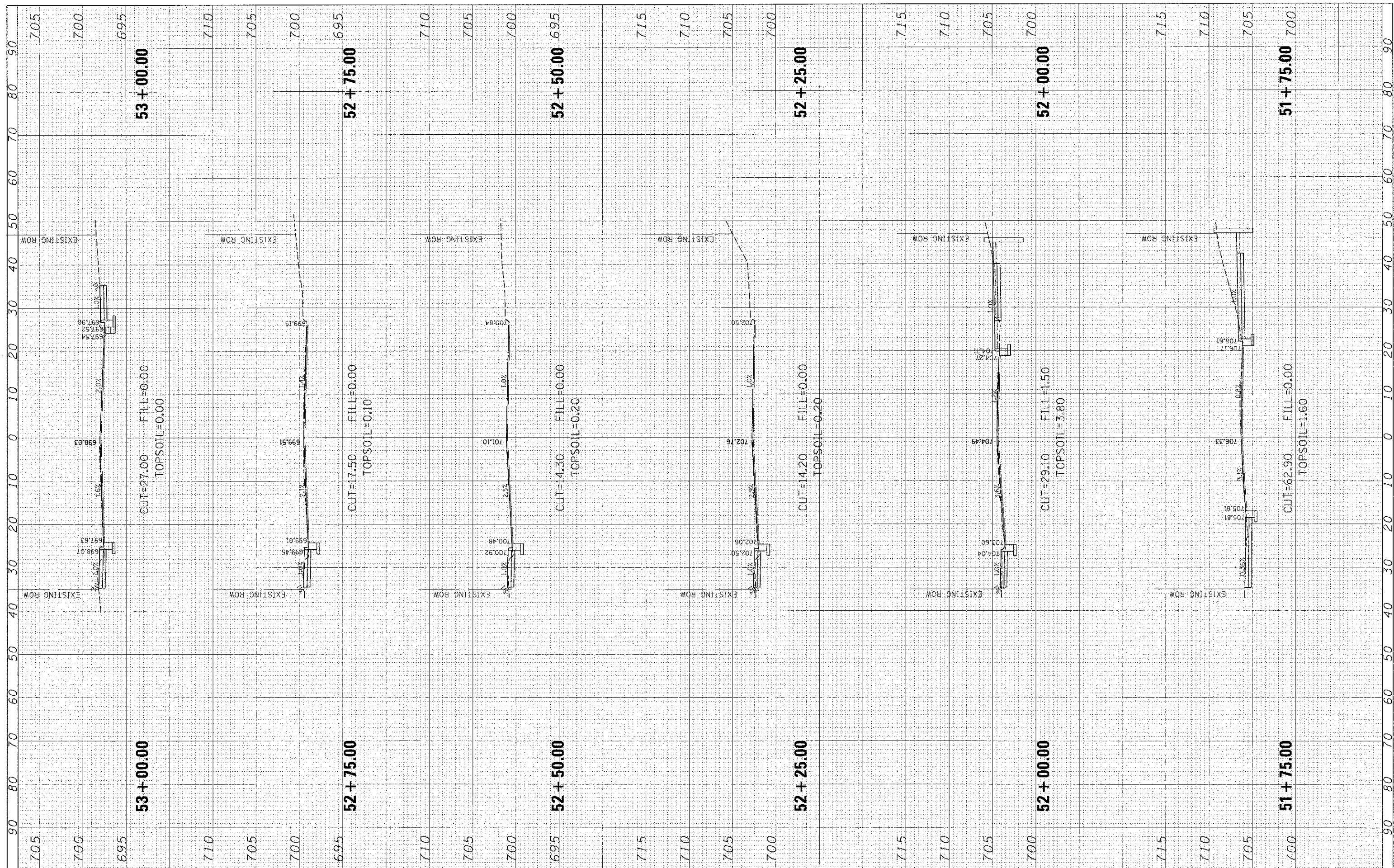
**WILSON STREET**

SCALE: SHEET 80 OF 88 SHEETS, STA. 50+25.00 TO STA. 51+50.00

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 80
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY  
 SUBMITTED  
 PLOTTED  
 TEMPLATE  
 NOTE BOOK  
 AREAS  
 CHECKED  
 DATE:

ORIGINAL SURVEY  
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 TEMPLATE  
 NOTE BOOK  
 AREAS  
 CHECKED  
 DATE:



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 DATE -

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

**WILSON STREET**

SCALE: SHEET 81 OF 88 SHEETS STA. 51+75.00 TO STA. 53+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	81
CONTRACT NO. 63763				
ILLINOIS FED. AID PROJECT				

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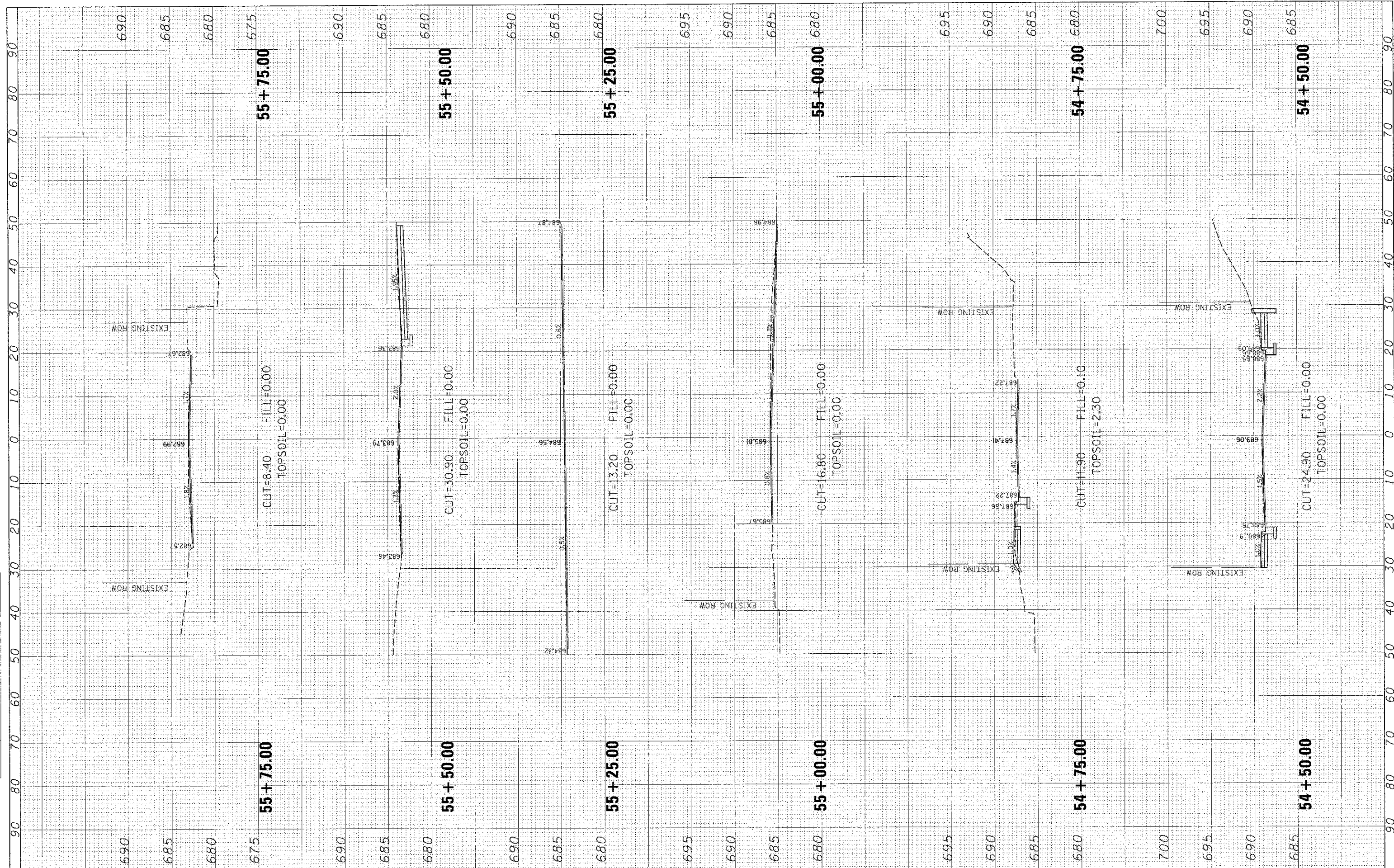






FINAL	DATE
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AREAS CHECKED	BY

ORIGINAL	DATE
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AREAS CHECKED	BY
AREAS CHECKED	BY



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 DATE: 12/23/2017

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

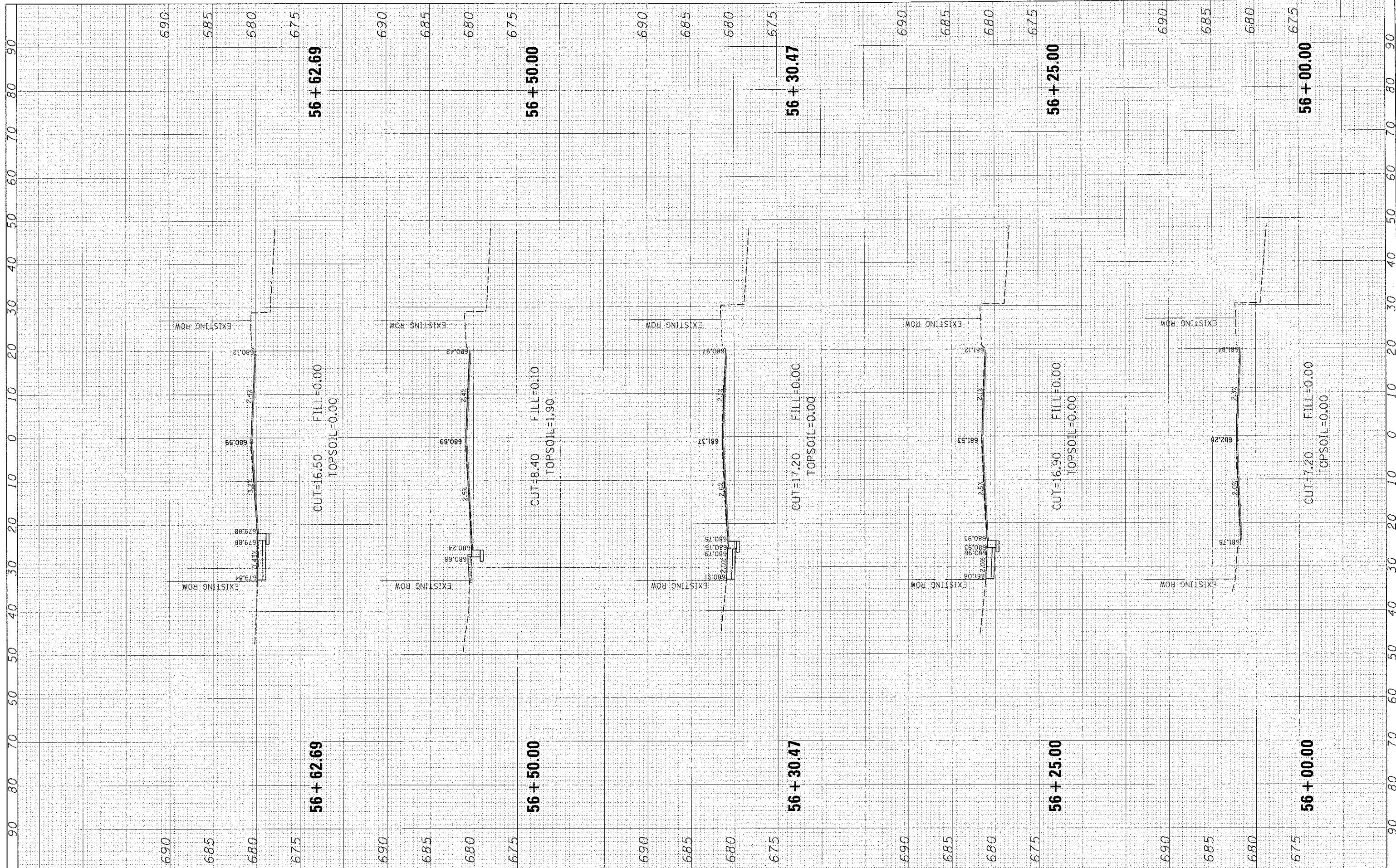
**WILSON STREET**

SCALE: SHEET 83 OF 88 SHEETS: STA. 54+50.00 TO STA. 55+75.00

F.A.U. RTE. 1441	SECTION 12-00073-01-TL	COUNTY KANE	TOTAL SHEETS 83
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT

FINAL SURVEY	BY	DATE
SHRIPPED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SHRIPPED		
NOTE BOOK		
AREAS CHECKED		



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CHECKED *LMF*  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WILSON STREET**

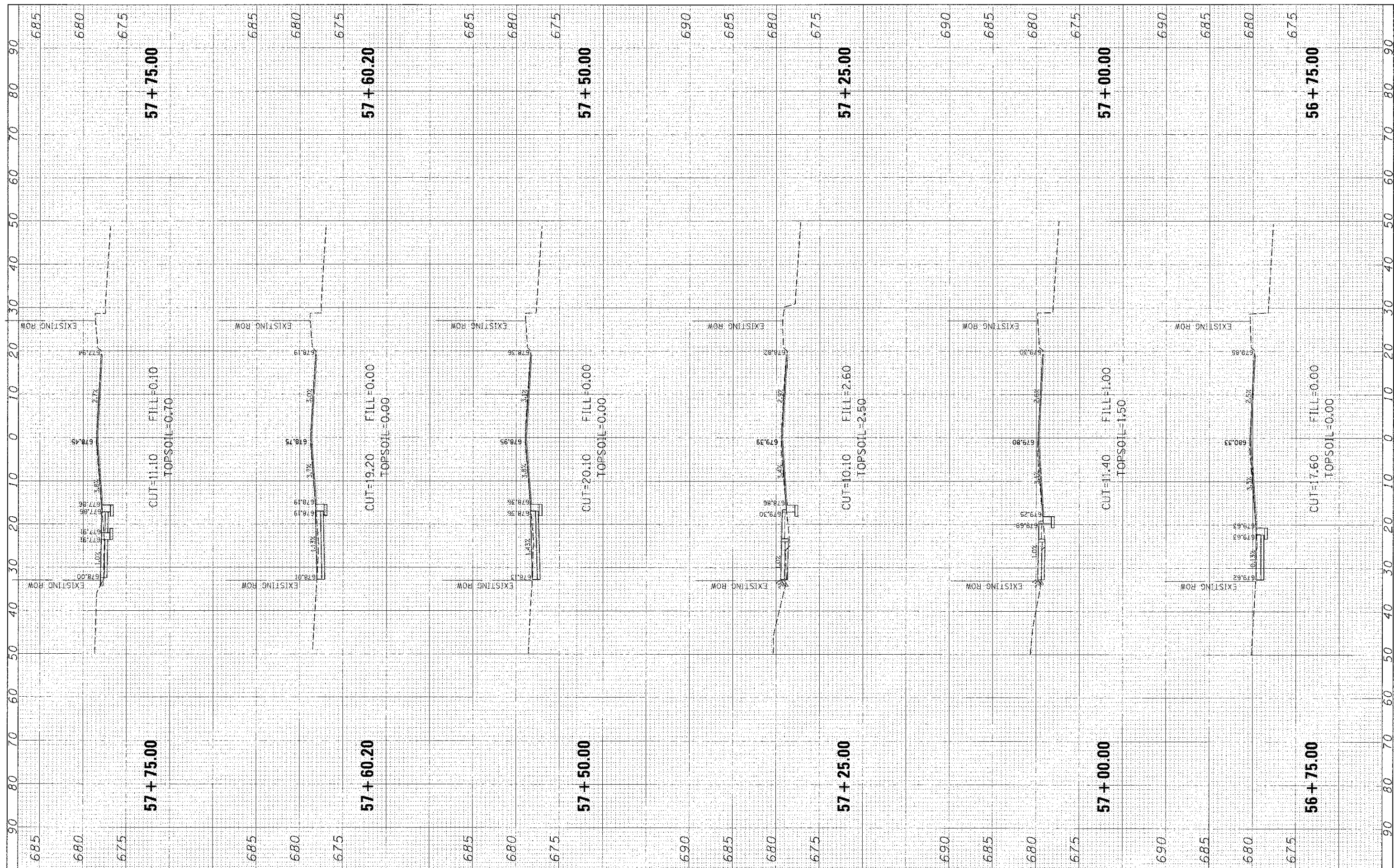
SCALE: SHEET 84 OF 88 SHEETS STA. 56+00.00 TO STA. 56+62.69

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	84
CONTRACT NO. 63763				
ILLINOIS FED. AID PROJECT				



FINI	CHECKED	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
NO.		

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



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USER NAME: cburke01  
PLOT SCALE: 1/8"  
PLOT DATE: 12/23/2012

DESIGNED: CUM  
DRAWN: MAK  
CHECKED: LMF  
DATE:

REVISED:  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WILSON STREET**

SCALE: SHEET 85 OF 88 SHEETS STA. 56+75.00 TO STA. 57+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1441	12-00073-01-TL	KANE	88	85
CONTRACT NO. 63763			ILLINOIS FED. AID PROJECT	

FN10219.03601Cv11X05\_01.GXD,03K



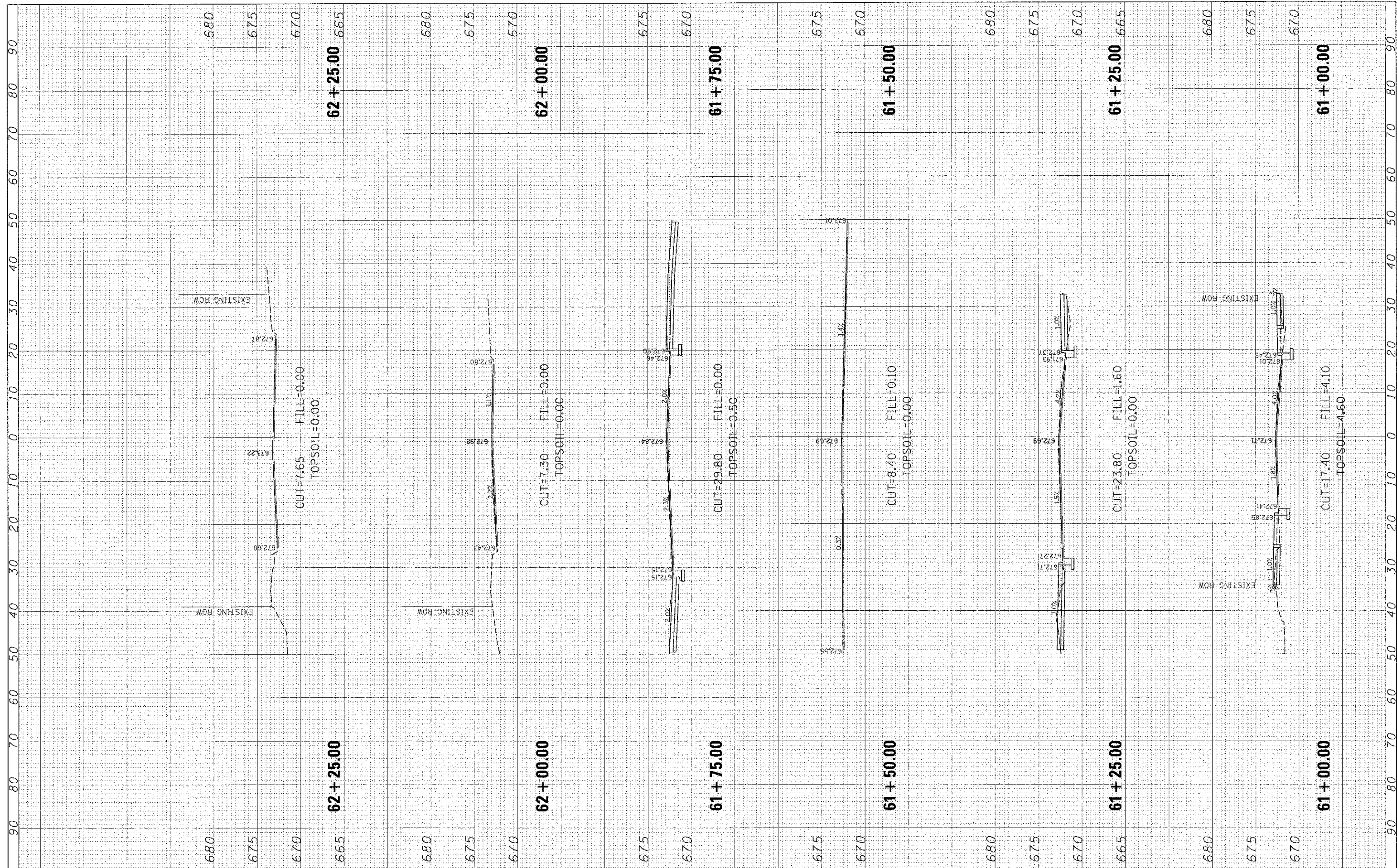






FINAL SURVEY	EMPLOYED	BY	DATE
NOTE BOOK	REPLATED		
AREAS CHECKED	AREAS CHECKED		
NO. OF SHEETS	NO. OF SHEETS		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO. OF SHEETS		



<b>CHRISTOPHER B. BURKE</b> ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = cbsapoll PLT SCALE = 10' PLT DATE = 10/23/2012	DESIGNED <i>CJM</i> DRAWN <i>MAX</i> CHECKED <i>LMF</i> DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>WILSON STREET</b>		F.A.U. RTE. 1441 SECTION 12-00073-01-TL COUNTY KANE ILLINOIS FED. AID PROJECT	TOTAL SHEETS 88 SHEET NO. 88 CONTRACT NO. 63763
	SCALE: SHEET 88 OF 88 SHEETS STA. 61+00.00 TO STA. 62+25.00								