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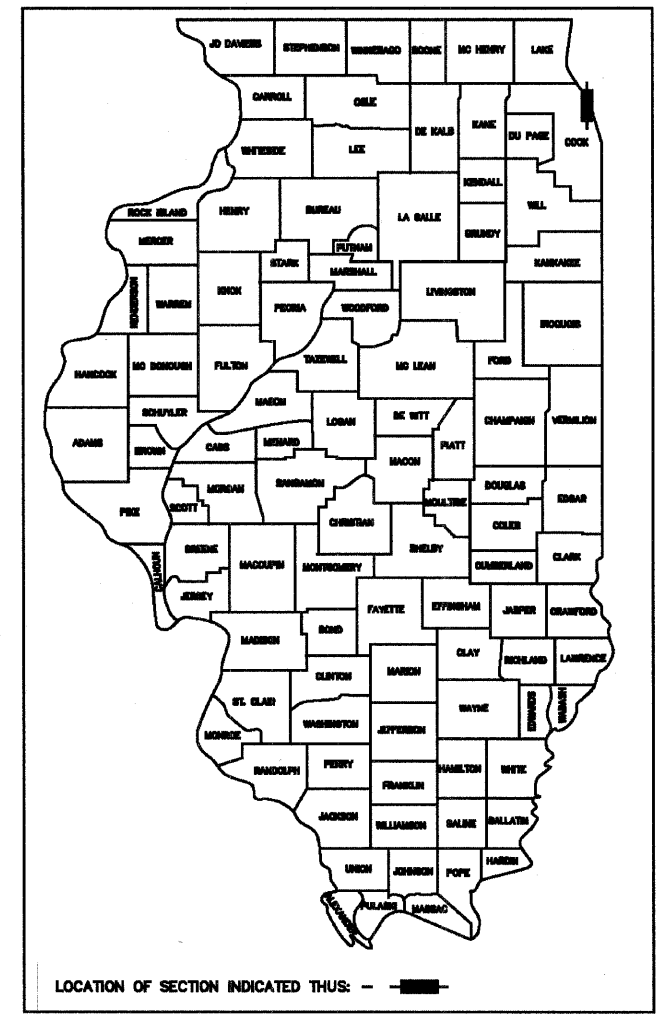
HIGHWAY STANDARDS

NUMBER	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
420001-07	PAVEMENT JOINTS
424001-05	CURB RAMPS FOR SIDEWALK
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
606001-04	CONC. CURB TYPE B & COMB. CONC. C&G
701421-03	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY
701501-05	URBAN LANE CLOSURE 2 LANE / 2 WAY - UNDIVIDED
701701-07	URBAN LANE CLOSURE MULTI LANE INTERSECTION
701801-04	LANE CLOSURE MULTI LANE 1 OR 2 WAY + CROSSWALK OR SW CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
878001-08	CONCRETE FOUNDATION DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

(FAU 2853) CHICAGO AVENUE
(FAU 1332) SOUTH BLVD. TO (FAU 1329) MAIN ST.
STREETSCAPE IMPROVEMENT
SECTION 10-00259-00-LS
PROJECT NO. TE-00D1(834)
CITY OF EVANSTON
COOK COUNTY
JOB NO. C-91-027-11

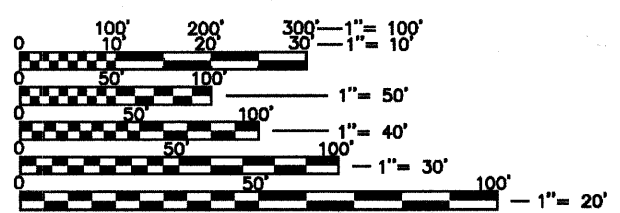


DESIGN DESIGNATION

CHICAGO AVENUE (FAU 2853)
FUNCTIONAL CLASSIFICATION = ARTERIAL
DESIGN SPEED = 30 MPH
POSTED SPEED = 30 MPH

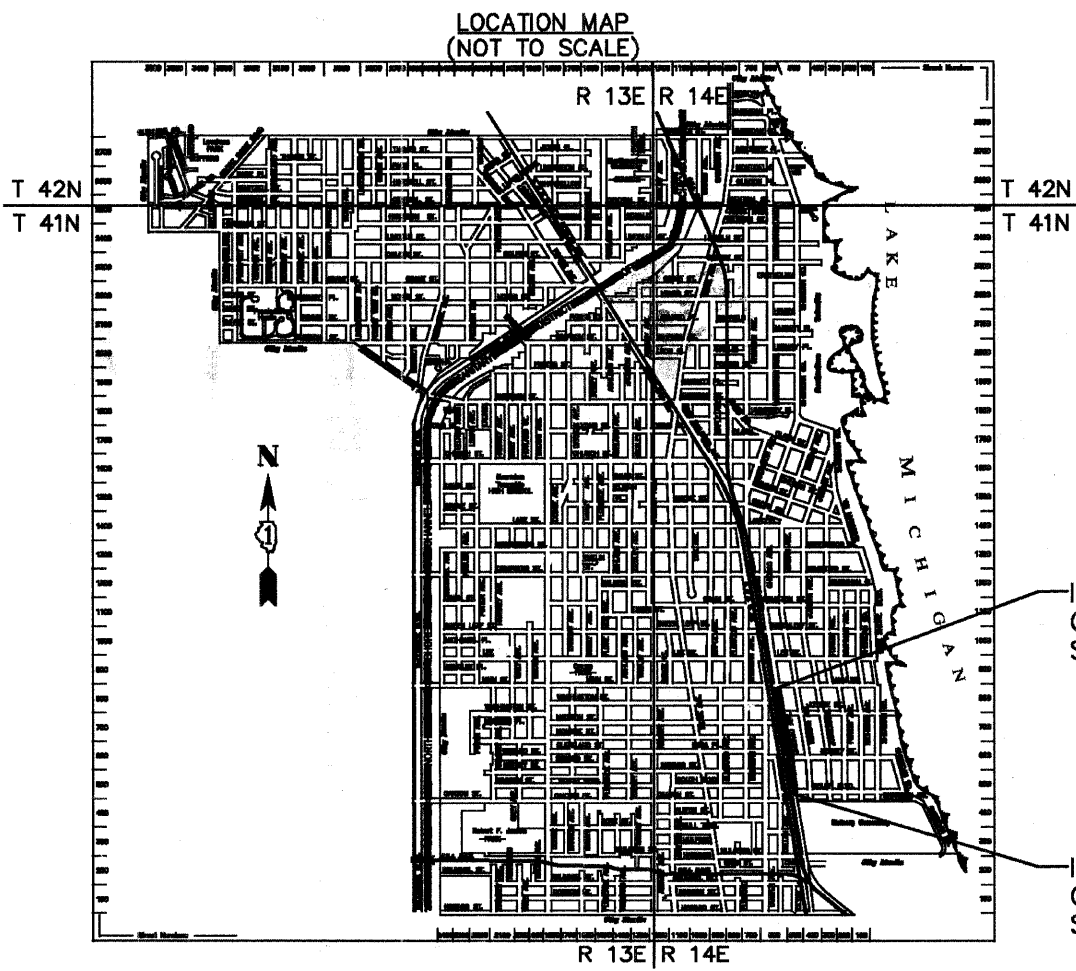
TRAFFIC DATA:

ADT = 21,900 (2007)



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

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



GROSS LENGTH = 2,436 FT. = 0.461 MILE
NET LENGTH = 2,436 FT. = 0.461 MILE

Sathysha Sat Nagar
License No. 062-049372
EXPIRES 11/30/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 9/8 20 11
Paul Schaefer
CITY OF EVANSTON, CITY ENGINEER

PASSED SEPTEMBER 20 11
Chris Christensen
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW SEPTEMBER 13, 20 11
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PLANS PREPARED BY: CITY OF EVANSTON
 PUBLIC WORKS DEPARTMENT - DIVISION OF TRANSPORTATION
 PHONE: (847) 866-2940
 PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAMBURG, IL



CONTRACT NO. 63593

A. GENERAL

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST I.D.O.T. STANDARD.
- THE PAVEMENT ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED SURFACE COURSE OR P.C.C. PAVEMENT, UNLESS OTHERWISE INDICATED.
- THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE COURSE UPON WHICH THE HOT MIX ASPHALT MATERIALS ARE PLACED.
- THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES BEING UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND OPERATION TO BE TESTED UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COSTS OF SUSPENSION OF WORK TO BE BORNE BY THE CONTRACTOR.
- ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON CITY OF EVANSTON DATUM.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.
- ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ON THE BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
- CONSTRUCTION ACTIVITIES MAY OCCUR BETWEEN 7:00AM AND 5:00PM MONDAY THROUGH FRIDAY AND 8:00AM TO 4:00PM ON SATURDAYS (AS APPROVED BY THE ENGINEER). CONSTRUCTION ACTIVITIES ON SUNDAY ARE PROHIBITED. NO WORK WILL BE PERFORMED ON STATE OF ILLINOIS OBSERVED HOLIDAYS. CONSTRUCTION ACTIVITIES ARE IDENTIFIED AS THE OPERATION OF HEAVY EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE WARMING UP OF ANY PIECE OF EQUIPMENT OR TURNING ON ENGINES. CONSTRUCTION ACTIVITIES SHALL NOT BEGIN BEFORE 7:00AM.

B. UTILITIES

- THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS", AND SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE. COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES IN ACCORDANCE WITH STATE LAW. ADVANCED NOTICE OF 48 HOURS REQUIRED.

C. DRAINAGE

- WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE CLEANED AND FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- THE COST OF CONNECTING EXISTING STORM SEWER AND UNDERDRAIN TO THE PROPOSED DRAINAGE SYSTEM AND CONNECTING PROPOSED STORM SEWER AND UNDERDRAIN TO EXISTING STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT UNIT PRICE FOR STORM SEWER. HOWEVER, THE NECESSARY PIPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "STORM SEWER" OF THE TYPE AND SIZE REQUIRED.
- THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM SEWER PIPE SIZES AND INVERTS PRIOR TO ORDERING STRUCTURES. ANY MODIFICATION OF STRUCTURES DUE TO THE FAILURE OF THE CONTRACTOR TO PERFORM THIS TASK SHALL BE AT THE CONTRACTOR'S EXPENSE AND MAY LEAD TO THE REJECTION OF THE STRUCTURE IN THE FIELD.
- ALL EXISTING DRAINAGE FACILITIES, HEADWALLS, FENCES AND OTHER OBSTRUCTIONS WHICH INTERFERE WITH THE PROPOSED IMPROVEMENT (IN THE OPINION OF THE ENGINEER), AND WHICH ARE NOT SHOWN ON THE PLANS SHALL BE REMOVED. THE COST OF REMOVAL OF EXISTING PIPE CULVERTS, STORM SEWERS, DRAINAGE STRUCTURES, CONCRETE HEADWALLS, FENCING OR OTHER OBSTRUCTIONS WHICH INTERFERE WITH THE PROPOSED IMPROVEMENTS AND WHICH ARE NOT SHOWN TO BE REMOVED AS A SEPARATE PAY ITEM SHALL INCLUDED IN THE COST OF THE CONTRACT.

- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. WHEN LOCATED WITHIN THE CURB LINE, FRAME ELEVATION GIVEN REFLECT THE EDGE OF PAVEMENT ELEVATIONS. ALL OTHER FRAME ELEVATIONS ARE GIVEN AT THE CENTER. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- ALL EXISTING FIRE HYDRANTS, FRAMES, GRATES, AND LIDS THAT ARE BEING REPLACED REMAIN THE PROPERTY OF THE CITY OF EVANSTON. THE CONTRACTOR SHALL DELIVER ALL REPLACED FRAMES, GRATES AND LIDS TO THE PUBLIC WORKS FACILITY. SUCH DELIVERY INCLUDED IN THE COST OF THE CONTRACT.

- ADJUSTMENT RINGS AT MAXIMUM OF 11" IN HEIGHT AND NO MORE THAN TWO RINGS WILL BE ALLOWED IN THE ADJUSTMENT OF CATCH BASIN, MANHOLE, INLET, AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED.

D. MISCELLANEOUS

- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 48 HOURS IN ADVANCE OF THE INTERRUPTION OF ACCESS AND/OR SERVICES AND SHALL NOTIFY THE OWNER OF THE TIME AND DURATION OF THE INTERRUPTION. THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AND INCLUDED IN THE ITEMS AGGREGATE FOR TEMPORARY ACCESS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL SAW CUT PAVEMENT, CURB & GUTTER, SIDEWALK, AND DRIVEWAY PAVEMENT FULL DEPTH WHEN ADJACENT TO SURFACES TO REMAIN IN PLACE. ALL SAWCUTTING SHALL BE INCLUDED IN THE VARIOUS REMOVAL ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL UNLESS OTHERWISE NOTED.
- CURB AND GUTTER JOINTS SHALL BE PLACED AS PER STANDARD 606001 AND IN ADDITION ONE INCH EXPANSION JOINTS AND BARS SHALL BE PLACED AT P.C.'S, ADJACENT TO EXISTING CURB, AT SUMMITS, AND AT A MINIMUM SPACING OF 150'.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO A LOCATION, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SODDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.
- ALL SUITABLE EXCESS MATERIAL FROM SEWER TRENCHES AND NECESSARY EXCAVATIONS MAY BE USED IN THE CONSTRUCTION OF THE IMPROVEMENT. PLACEMENT AND COMPACTION OF THIS MATERIAL SHALL BE INCLUDED IN CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL EXISTING GRASS AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SODDED AS DIRECTED BY THE ENGINEER.

H. ADDITIONAL NOTES

- THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR MUST OBTAIN A FIRE HYDRANT PERMIT FROM THE CITY IN ORDER TO OBTAIN ACCESS TO CITY WATER. FOR INFORMATION CALL (847)866-2942.

I. POINTS OF CONTACT

CITY OF EVANSTON DIVISION OF TRANSPORTATION PUBLIC WORKS DEPARTMENT MR. PAUL SCHNEIDER, P.E. DIRECTOR OF TRANSPORTATION 2100 RIDGE AVENUE EVANSTON, IL 60201 PH: (847) 866-2940 FAX: (847) 866-8118	CITY OF EVANSTON DIVISION OF TRANSPORTATION PUBLIC WORKS DEPARTMENT MR. SAT NAGAR, P.E. SENIOR ENGINEER 2100 RIDGE AVENUE EVANSTON, IL 60201 PH: (847) 866-2940 FAX: (847) 866-8118
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M.W.R.D. TYPICAL GENERAL NOTES

- The MWRD Local Sewer Systems Section Field Office must be notified at least two (2) working days prior to the commencement of any work (call 708-588-4055).
- Elevation datum is 'City of Evanston' 579.70 feet above mean tide at New York
- All floor drains shall discharge to the sanitary sewer system.
- All downspouts and footing drains shall discharge to the storm sewer system.
- All sanitary sewer pipe materials and joints (and storm sewer pipe materials and joints in a combined sewer area) shall conform to:

Pipe Material Spec. Joint Spec.

Vitrified Clay Pipe
VCP C-700 C-425
VCP (No-Bel) C-700 C-425
Joint C-425
Collar D-1784

Concrete Pipe C-14 C-443
RCP C-76 C-443
ACP C-428 D-1869

ABS Sewer Pipe
Solid Wall 6" dia. SDR 23.5
ABS D-2751 D-2751

ABS Composite/Truss Pipe
8"-15" dia.
ABS D-2680 D-2680

PVC Gravity Sewer Pipe
6"-15" dia. SDR 26
D-3034 D-3212 or
D-2855

18"-27" dia. F/dy=46
F-679 D-3212 or
D-2855

CISP A-74 C-564
DIP A-21.51 A-21.11

- All sanitary sewer construction (and storm sewer construction in combined sewer areas), requires stone bedding with stone 1/4" to 1" in size, with minimum bedding thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches nor more than eight (8) inches. Material shall be CA-11 or CA-13 and shall be extended at least 12' above the top of the pipe when using PVC.
- "Band Seal" or similar flexible-type couplings shall be used in the connection of sewer pipes of dissimilar materials.
- When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, one of the following methods shall be used:
 - Circular saw-cut of sewer main by proper tools ("Shower-Tap" machine or similar) and proper installation of hubwye saddle or hub-tee saddle.
 - Remove an entire section of pipe (breaking only the top of one bell) and replace with a wye or tee branch section.
 - With pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using "Band Seal" or similar couplings to hold it firmly in place.
- Whenever a sanitary/combined sewer crosses under a watermain, the minimum vertical distance from the top of the sewer to the bottom of the watermain shall be 18 inches. Furthermore, a minimum horizontal distance of 10 feet between sanitary/combined sewers and watermain shall be maintained unless: the sewer is laid in a separate trench, keeping a minimum 18" vertical separation; or the sewer is laid in the same trench with the watermain located at the opposite side on a bench of undisturbed earth, keeping a minimum 18" vertical separation. If either the vertical or horizontal distances described above can not be maintained, or the sewer crosses above the watermain, the sewer shall be constructed to watermain standards.
- All existing septic systems shall be abandoned. Abandoned tanks shall be filled with granular material or removed.
- All sanitary manholes, (and storm manholes in combined sewer areas), shall have a minimum inside diameter of 48 inches, and shall be pre-cast reinforced concrete.
- All abandoned sewers shall be plugged with two foot (2') long non-shrink concrete or mortar plugs at both ends.
- All inlet and outlet pipes of all sewer manholes, inlets, catch basins, and any other underground structures shall be joined with watertight rubber connections conforming to ASTM C-443 and C-923 with stainless steel band.

PIPE MATERIAL SPECIFICATION

WHERE POLYVINYL CHLORIDE PIPE (P.V.C.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE SDR 26 IN CONFORMANCE WITH:

6" TO 15" PIPE ASTM D-3034
18" OR LARGER PIPE ASTM F-679


WHERE DUCTILE IRON PIPE (D.I.P.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE:

FOR SEWER: CLASS 50 IN CONFORMANCE WITH:
ANSI A-21.51 PIPE
ANSI A-21.11 JOINT

FOR WATER: CLASS 52 IN CONFORMANCE WITH:
Mechanical Joints: AWWA C-153
Push-On Joints: AWWA C-153

WHERE EXTRA STRENGTH CLAY PIPE (E.S.V.C.P.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE IN CONFORMANCE WITH:

ASTM C-700 PIPE
ASTM C-425 JOINT

PLANS PREPARED BY:  CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT TRANSPORTATION
AND ENGINEERING DIVISION
PHONE: (847) 866-2924

DESIGNED -- DSM	REVISED -- 7/1/11 PER IDOT
DRAWN -- DSM	REVISED -- 8/28/11 PER IDOT
CHECKED -- SN, PC	REVISED --
DATE -- 1 / 27 / 2011	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
CHICAGO AVENUE

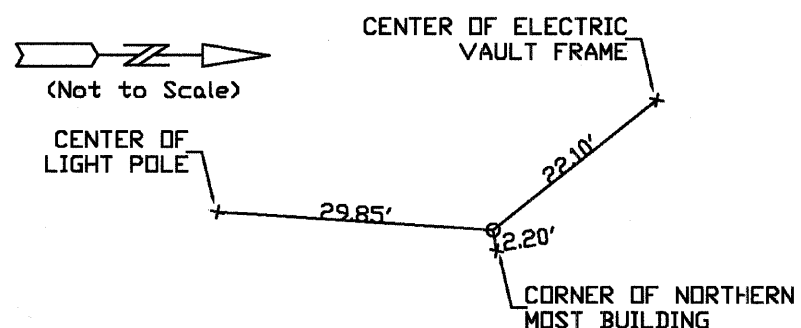
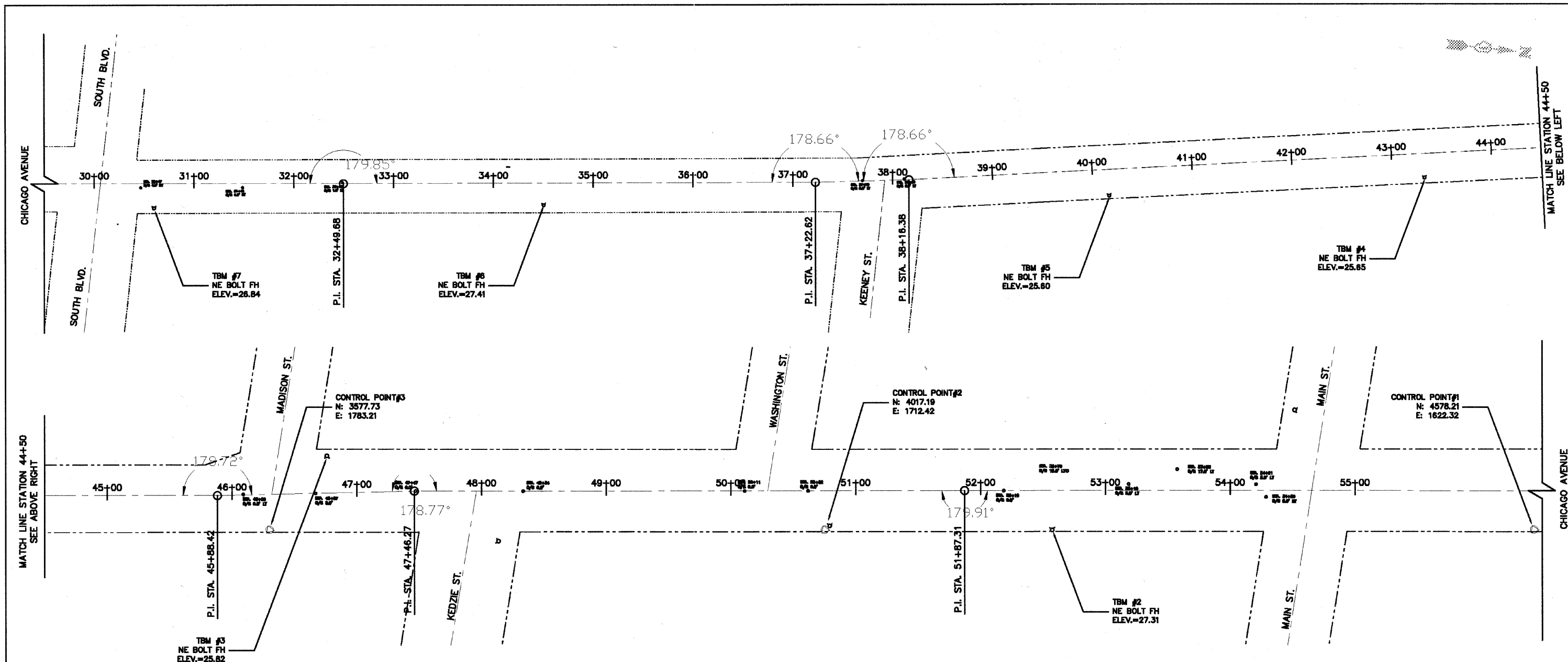
SCALE: N.T.S.	SHEET NO. 2 OF 39 SHEETS	STA. N.A. TO STA. N.A.	F.A.U. RTE. 2553	SECTION 10-00250-00-LS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 2
							CONTRACT NO. 63593
ILLINOIS FED. AID PROJECT							

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY (PEP 80/20 0031)
20101000	TEMPORARY FENCE	FOOT	450
20200100	EARTH EXCAVATION	CU YD	120
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	95
20800150	TRENCH BACKFILL	CU YD	45
21101610	TOPSOIL FURNISH AND PLACE, 3"	SQ YD	240
25200110	SODDING, SALT TOLERANT	SQ YD	240
25200200	SUPPLEMENTAL WATERING	UNIT	11
28000510	INLET FILTERS	EACH	16
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	600
31101100	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	35
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	145
35300700	PORTLAND CEMENT CONCRETE BASE COURSE 12"	SQ YD	340
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	25
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	145
40600300	AGGREGATE (PRIME COAT)	TON	3
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	10
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	250
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	20
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	45
42400800	DETECTABLE WARNINGS	SQ FT	125
44000100	PAVEMENT REMOVAL	SQ YD	1,570
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	45
44000300	CURB REMOVAL	FOOT	2,475
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	30
44000600	SIDEWALK REMOVAL	SQ FT	9,680
56200700	WATER SERVICE LINE 2"	FOOT	20
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1
56500700	DOMESTIC WATER SERVICE BOXES TO BE REMOVED	EACH	1
56500800	DOMESTIC WATER SERVICE BOXES	EACH	2
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3
60250300	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2
602503100	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1
60260100	INLETS TO BE ADJUSTED	EACH	1
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2
60500050	REMOVING CATCH BASINS	EACH	6
60500060	REMOVING INLETS	EACH	3
60600605	CONCRETE CURB, TYPE B	FOOT	300
60603451	PRECAST CONCRETE CURB	FOOT	1,515
60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	1,050
60605900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12	FOOT	1,515
67100100	MOBILIZATION	L SUM	1
70106800	CHAR SEABLE MESSAGE SIGN	CAL MO	6
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	7,170
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	85
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	14,510
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,215
78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	735
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	110
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	140
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,865
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	45
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	38

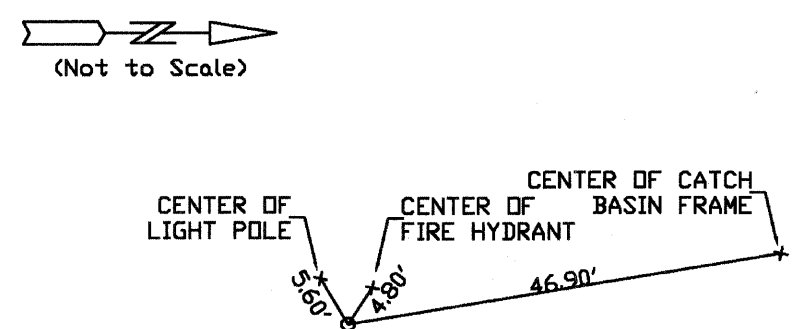
CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY (PEP 80/20 0031)
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	220
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	38
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	737
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	861
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	333
87500100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87900200	DRILL EXISTING HANDHOLE	EACH	1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88600600	DETECTOR LOOP REPLACEMENT	FOOT	120
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	3
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,949
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	906
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
Z0003855	BICYCLE RACKS	EACH	6
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018911	DRILL AND GROUJ #6 TIE BARS	EACH	645
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104
Z0036700	PARKING METER POSTS TO BE REMOVED	EACH	7
Z0036800	PARKING METERS TO BE MOVED	EACH	7
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	15
Z0069600	STREET LIGHT STANDARDS TO BE RELOCATED	EACH	3
Z0076600	TRAINEES	HOUR	500
X5620112	WATER SERVICE CONNECTION	EACH	1
X0323677	STREET SWEEPING	HOUR	20
X0323868	DRAINAGE RESTRICTOR	EACH	4
X0517100	STORM SEWERS, DUCTILE IRON PIPE 8"	FOOT	46
X0539700	TREE FRAME AND GRATE	EACH	13
X2110100	TOPSOIL FURNISH AND PLACE, SPECIAL	CU YD	295
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	25
X2420430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	7,055
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2,235
X4420672	CLASS B PATCHES, TYPE II, 9 INCH (SPECIAL)	SQ YD	25
X5510100	STORM SEWER REMOVAL	FOOT	100
X6022805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	6
X6023202	INLETS, WITH TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X8100105	CONDUIT SPLICE	EACH	2
X8140115	HANDHOLE TO BE ADJUSTED	EACH	2
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	333
XX004467	BRICK PAVR SIDEWALK ON RIGID BASE	SQ FT	2,135
A2002502	TREE, CARPINUS BETULUS FASTIGIATA (COLUMNAR EUROPEAN HORNBEAM), 3" CALIPER, BALLED AND BURLAPPED	EACH	11
A2004524	TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 3" CALIPER, BALLED AND BURLAPPED	EACH	21
A2007122	TREE, QUERCUS RUBRA (RED OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	5
A2008820	TREE, ILMEXIS CARPINIFOLIA HOMESTEAD HOMESTEAD ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	24
C2005865	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 5-GALLON	EACH	54
C2007010	SHRUB, ROSA RADRAZZ (KNOCKOUT ROSE), CONTAINER GROWN, 3-GALLON	EACH	26
C2008063	SHRUB, RHUS AROMATICA (FRAGRANT SUMAC), CONTAINER GROWN, 3-GALLON	EACH	109
C2C11024	SHRUB, SYRINGA PATULA MISS KIM (MISS KIM MANCHURIAN LILAC), 2' HEIGHT, CONTAINER	EACH	49
C2011600	SHRUB, VIBURNUM DENTATUM BLUE MUFFIN (BLUE MUFFIN ARROWHEAD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	87
X0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	1,067
X0012993	PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT	UNIT	463
X1001988	IRRIGATION SYSTEM SPECIAL	L SUM	1
X1003679	MULCH	CU YD	70

A - SPECIALTY ITEM + 0042

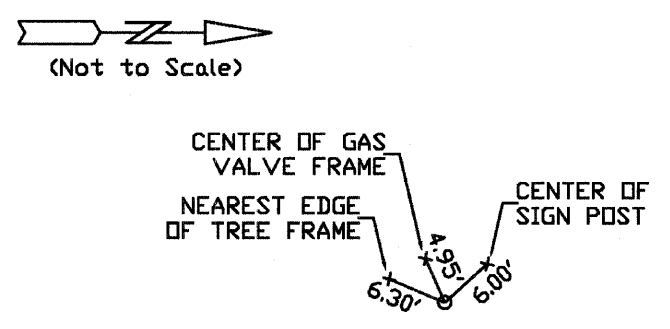
* - COVERED BY SPECIAL PROVISION, PLAN NOTE, AND/OR PLAN DETAIL




CONTROL POINT #3
CROSS CUT IN CONCRETE WALK



CONTROL POINT #2
CROSS CUT IN CONCRETE WALK



CONTROL POINT #1
CROSS CUT IN CONCRETE WALK

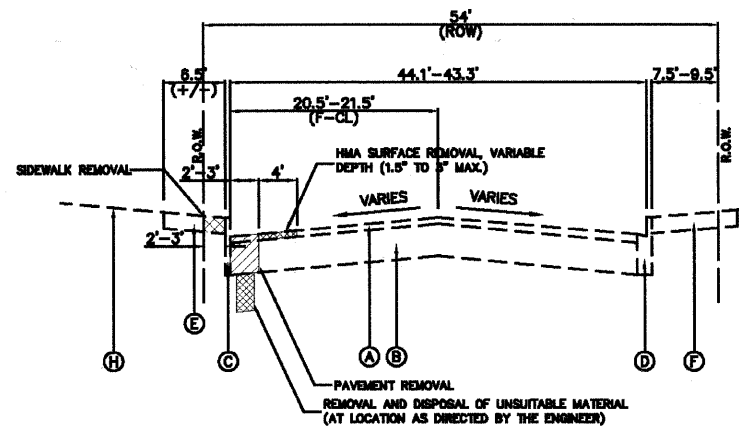
PLANS PREPARED BY:  CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
PHONE: (847) 698-2940

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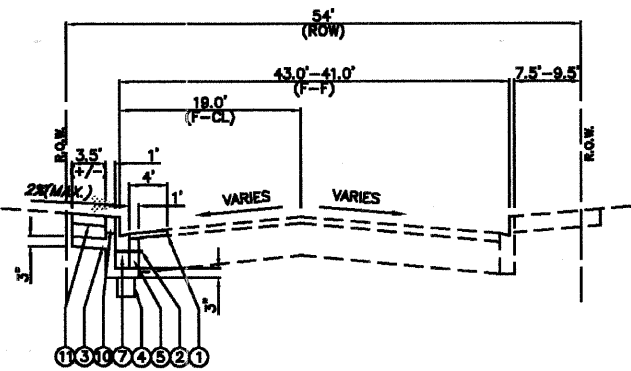
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
CHICAGO AVENUE
SCALE: 1" = 30' SHEET NO. 4 OF 30 SHEETS STA. 29+50 TO STA. 50+50

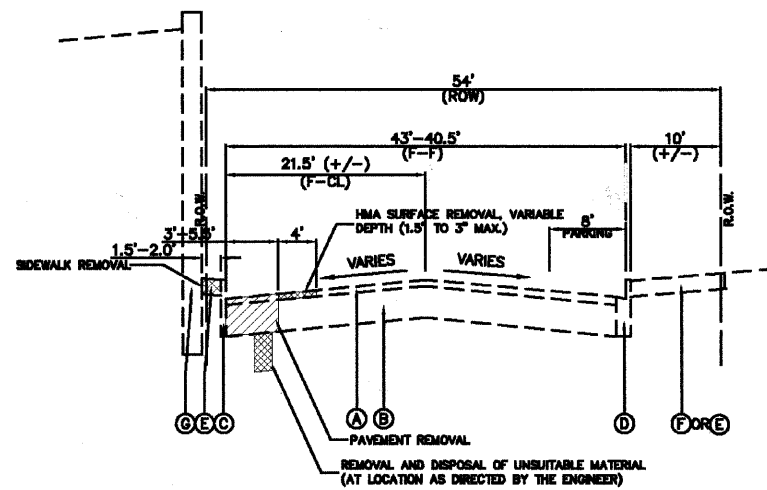
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2853	10-00250-00-LS	COOK	30	4
CONTRACT NO. 63593				
ILLINOIS FED. AID PROJECT				



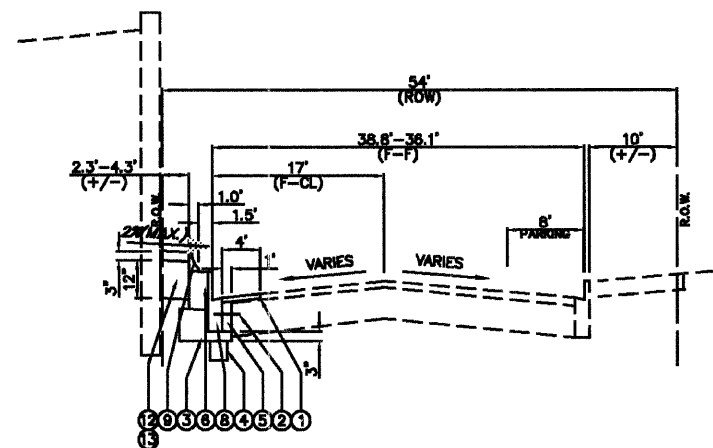
EXISTING TYPICAL SECTION
CHICAGO AVENUE
STA. 30+29 TO 31+24



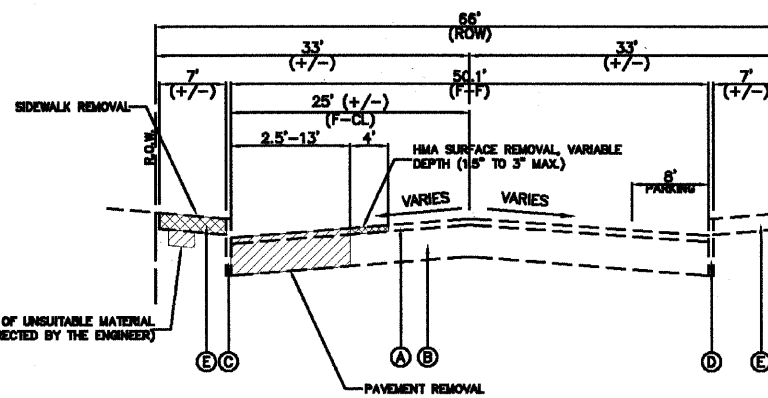
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CHICAGO AVENUE
STA. 30+29 TO 31+24



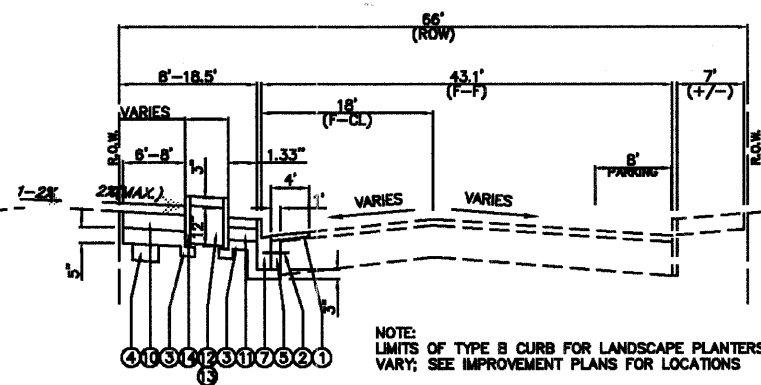
EXISTING TYPICAL SECTION
CHICAGO AVENUE
STA. 31+24 TO 46+32



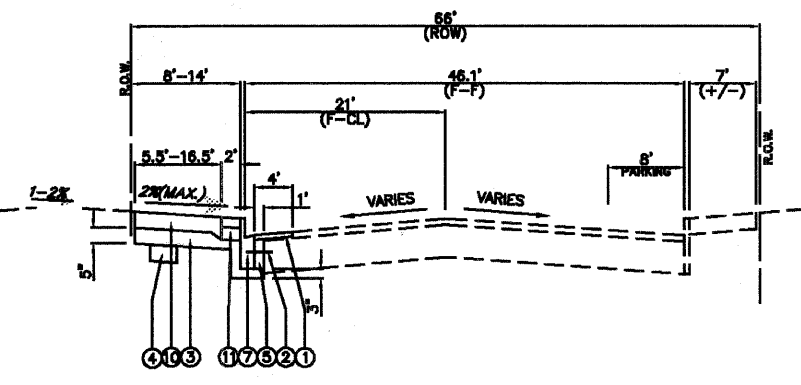
PROPOSED TYPICAL SECTION
CHICAGO AVENUE
STA. 31+24 TO 46+32



EXISTING TYPICAL SECTION
CHICAGO AVENUE
STA. 46+32 TO 54+65



PROPOSED TYPICAL SECTION
CHICAGO AVENUE
STA. 46+32 TO 54+65
(WITH PLANTERS)

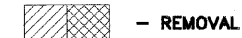


PROPOSED TYPICAL SECTION
CHICAGO AVENUE
STA. 46+32 TO 54+65
(WITH OUT PLANTERS)

EXISTING LEGEND:

- A. EXISTING HMA OVERLAY, 3"-5" (±)
- B. EXISTING CONCRETE BASE COURSE, 9"-11" (±)
- C. EXISTING CONCRETE BARRIER CURB (TO BE REMOVED AND PAID FOR AS CURB REMOVAL)
- D. EXISTING PCC SIDEWALK, 5" (±)
- E. EXISTING BRICK PAVER SIDEWALK
- F. EXISTING C.T.A. RETAINING WALL
- G. EXISTING GROUND SURFACE

NOTE: LIMITS VARY, AS SHOWN ON REMOVAL PLANS



PROPOSED LEGEND:

1. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"
2. DRILL AND GROUT #6 TIE BARS (30" LONG AT 24" CENTERS; EMBEDDING AT A MIN. OF 8" INTO EXISTING PAVEMENT) (TIE BARS SHALL BE INSTALLED WHEN PROPER COVER CAN BE ACHIEVED AS DETERMINED BY THE ENGINEER)
3. SUB-BASE GRANULAR MATERIAL, TYPE B; (VARIABLE THICKNESS) (PAID FOR PER TON) (CRUSHED STONE, CA-6)
4. SUB-BASE GRANULAR MATERIAL, TYPE B; (VARIABLE THICKNESS) (PAID FOR PER CUBIC YARD) (CRUSHED STONE, CA-6) (AS NEEDED TO REPLACE UNSUITABLE MATERIAL AS DETERMINED BY THE ENGINEER)
5. PORTLAND CEMENT CONCRETE BASE COURSE, 9"
6. PORTLAND CEMENT CONCRETE BASE COURSE, 12" (FOR PRECAST CONC. CURB FOOTING, 2-FOOT WIDTH)
7. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (A.E.P.) (10" GUTTER THICKNESS)
8. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12 (10" GUTTER THICKNESS)
9. PRECAST CONCRETE CURB (12"H X 12"W; SEE PLAN DETAILS, TIED TO CONCRETE BASE COURSE)
10. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH. SPECIAL
11. BRICK PAVER SIDEWALK ON RIGID BASE (SEE PROJECT DETAILS) (3" SAND SETTING BED AND LANDSCAPE FABRIC INCLUDED)
12. TOPSOIL FURNISH AND PLACE, SPECIAL (12" DEPTH, TYPICAL) (PLANTING MIX, SEE SPECS)
13. MULCH FOR PLANTING; (3" DEPTH, TYPICAL) (SEE LANDSCAPING PLANS FOR PLANTING)
14. CONCRETE CURB, TYPE B (FOR LANDSCAPED PLANTERS)

NOTE: LIMITS VARY, AS SHOWN ON PROPOSED PLANS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

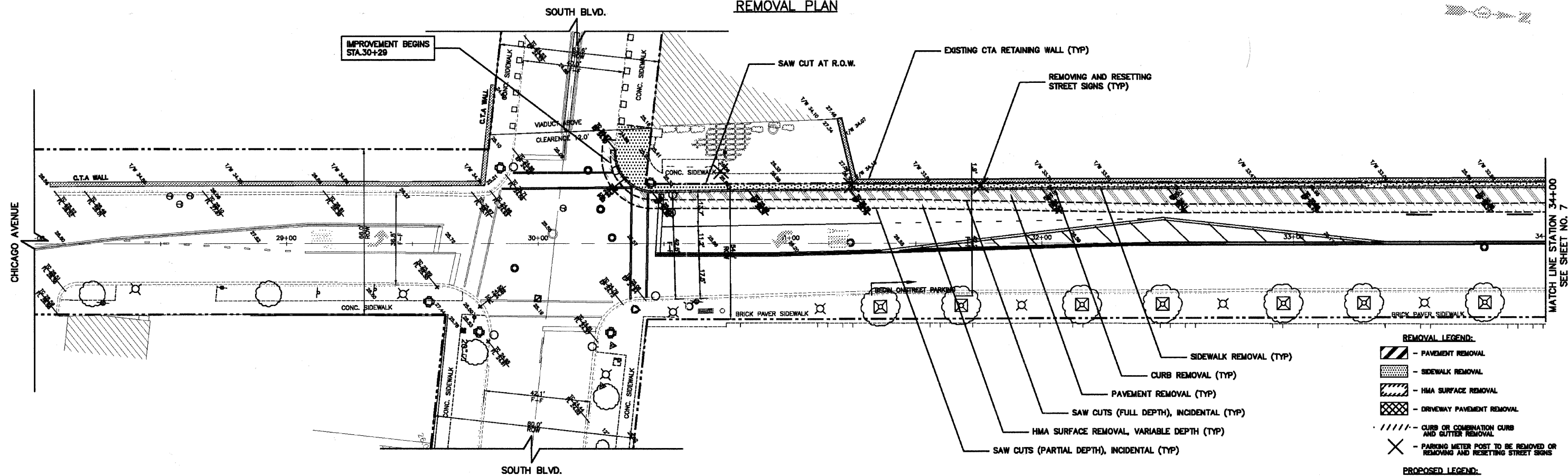
MIXTURE TYPE	AIR VOIDS
PAVEMENT RESURFACING (CHICAGO AVENUE)	
HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70 (IL 9.5 mm); 2"	4%@70 Cyr
TEMPORARY PAVEMENT TO MAINTAIN ACCESS	
INCIDENTAL HOT-MIX ASPHALT SURFACING	4%@50 Cyr
HMA SURFACE COURSE MIX "C", N50 (IL 9.5 mm); VARIES	

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS./SQ. YD./IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA, THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- FOR "PERCENT RAP", SEE DISTRICT ONE SPECIAL PROVISIONS.

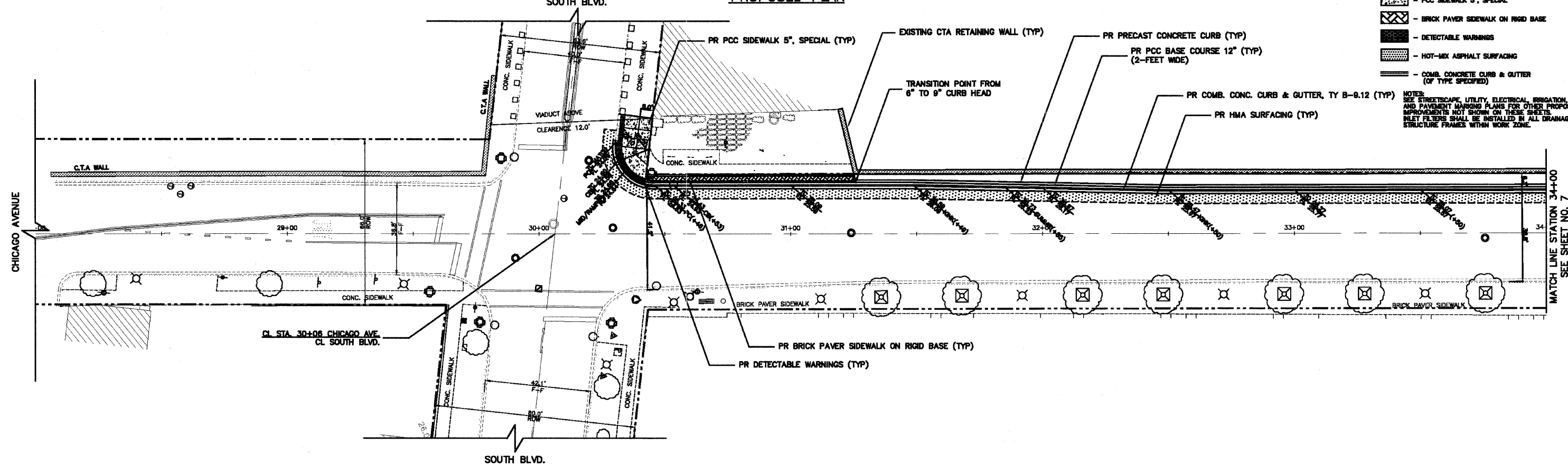
NOTES:

1. SUB-BASE GRANULAR MATERIAL THICKNESSES SHALL BE AS FOLLOWS:
PCC CURBING, BASE COURSE, & PAVER SIDEWALK: 3"
PCC SIDEWALKS: 5"
PCC DRIVEWAYS: 2"
2. SAW CUTS SHALL BE REQUIRED TO REMOVE ITEMS ADJACENT TO PAVEMENT SURFACES TO REMAIN IN PLACE AND WILL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL PAY ITEMS.
3. "HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH" SHALL BE TO A DEPTH AS NEEDED TO PROVIDE A MINIMUM DEPTH OF 2-INCHES FOR PR HMA SURFACE. THE DEPTH OF SURFACE REMOVAL WHERE MEETING THE EXISTING PAVEMENT WILL BE 2-INCHES; WHERE MEETING THE PR COMB. CONC. CURB AND GUTTER THE DEPTH WILL VARY FROM APPROXIMATELY 0.5-INCHES TO 3-INCHES DEPENDING ON THE DEPTH NEEDED TO ACHIEVE 2-INCH EXPOSURE AT THE EDGE OF PAVEMENT.
4. ALL SIDEWALKS SHALL BE CONSTRUCTED NOT TO EXCEED 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE.

REMOVAL PLAN



PROPOSED PLAN



- REMOVAL LEGEND:**
- PAVEMENT REMOVAL
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - CURB OR COMBINATION CURB AND GUTTER REMOVAL
 - PARKING METER POST TO BE REMOVED OR REMOVING AND RESETTING STREET SIGNS
- PROPOSED LEGEND:**
- PCC SIDEWALK 5", SPECIAL
 - BRICK PAVER SIDEWALK ON RIGID BASE
 - DETECTABLE WARNINGS
 - HOT-MIX ASPHALT SURFACING
 - COMB. CONCRETE CURB & GUTTER (OF TYPE SPECIFIED)
- NOTES:**
SEE STREETScape, UTILITY, ELECTRICAL, IRRIGATION, AND PAVEMENT MARKING PLANS FOR OTHER PROPOSED IMPROVEMENTS NOT SHOWN ON THESE SHEETS. INLET FILTERS SHALL BE INSTALLED IN ALL DRAINAGE STRUCTURE FRAMES WITHIN WORK ZONE.

PLANS PREPARED BY: CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
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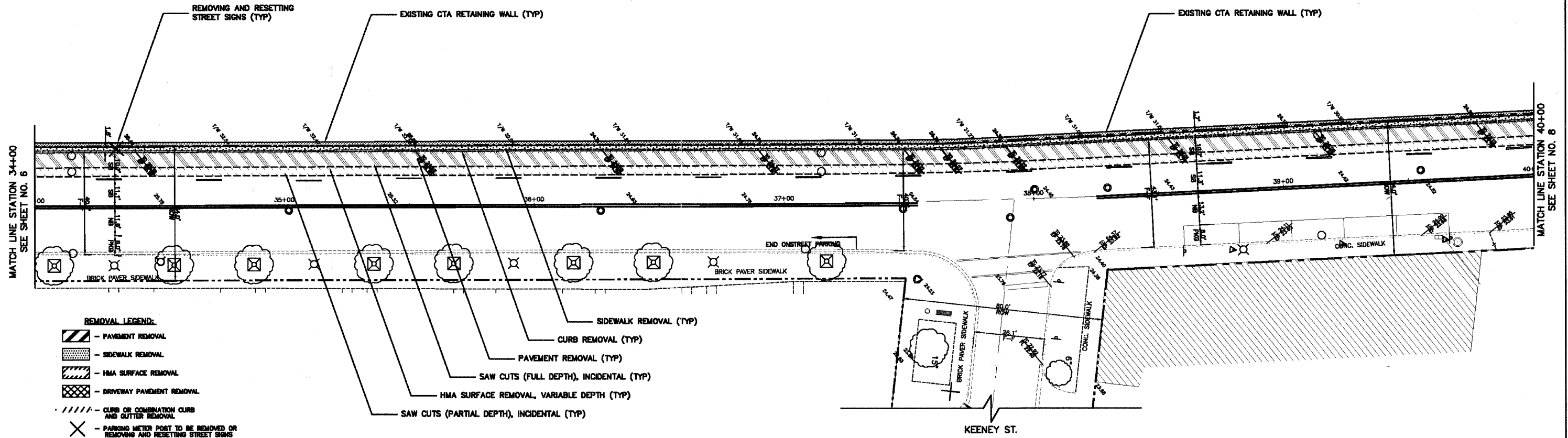
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DRAWN - DSM	REVISED - 8/28/11 PER IDOT
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DATE - 1 / 27 / 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

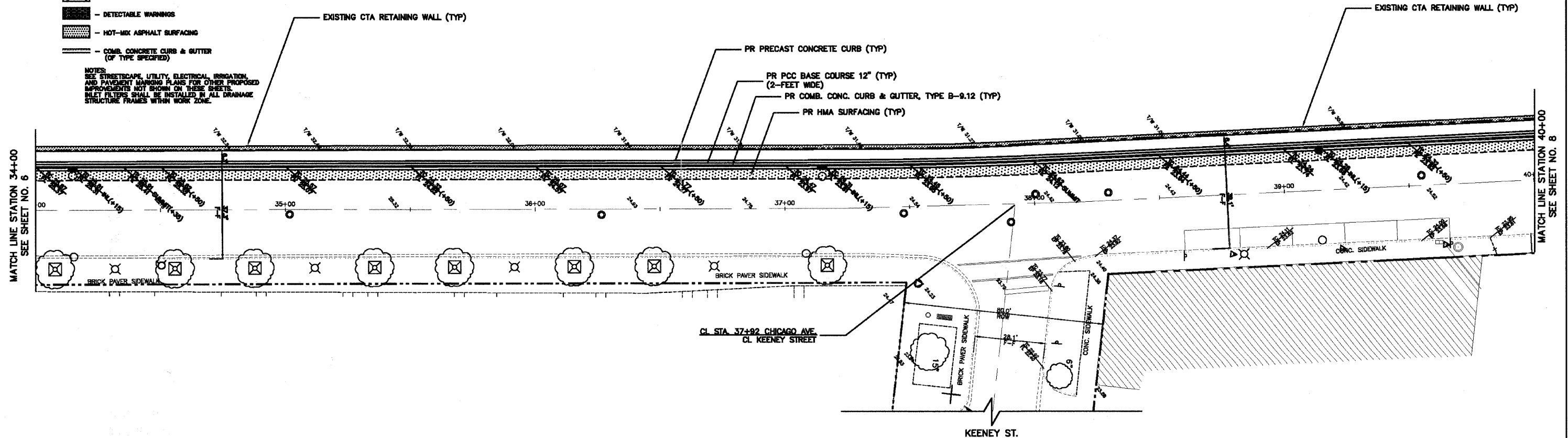
REMOVAL AND PROPOSED PLAN		CHICAGO AVENUE	
SCALE: 1" = 20'	SHEET NO. 6 OF 39 SHEETS	STA. 28+00	TO STA. 34+00

F.A.U. RTE. 2853	SECTION 10-00250-00-LS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 6
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	

REMOVAL PLAN



PROPOSED PLAN



PLANS PREPARED BY:



CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
PHONE: (847) 666-2940

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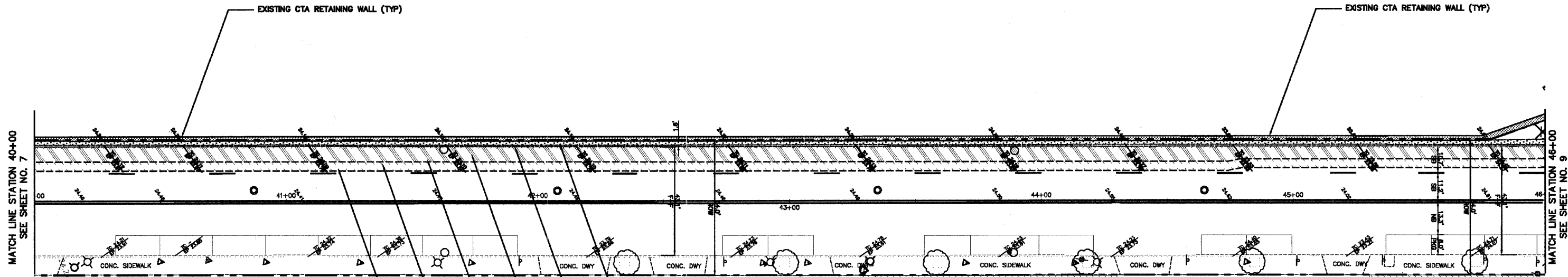
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND PROPOSED PLAN
CHICAGO AVENUE

SCALE: 1" = 20' SHEET NO. 7 OF 39 SHEETS STA. 34+00 TO STA. 40+00

F.A.U. RTE. 2853	SECTION 10-00259-00-LS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 7
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	

REMOVAL PLAN



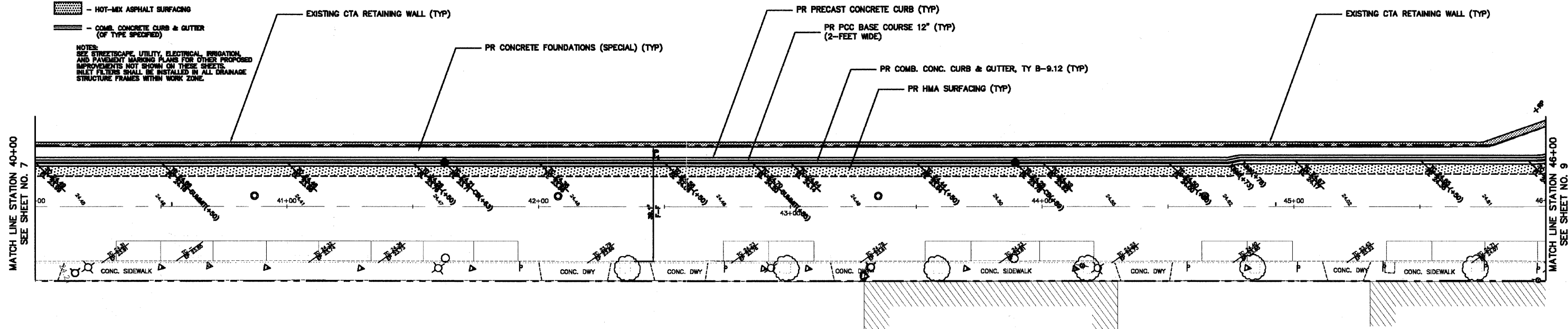
- REMOVAL LEGEND:**
- PAVEMENT REMOVAL
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - CURB OR COMBINATION CURB AND GUTTER REMOVAL
 - PARKING METER POST TO BE REMOVED OR REMOVING AND RESETTING STREET SIGNS

- PROPOSED LEGEND:**
- PCC SIDEWALK 5", SPECIAL
 - DETECTABLE WARNINGS
 - HOT-MIX ASPHALT SURFACING
 - COMB. CONCRETE CURB & GUTTER (OF TYPE SPECIFIED)

NOTES:
SEE STREETSCAPE UTILITY, ELECTRICAL, IRRIGATION, AND PAVEMENT MARKING PLANS FOR OTHER PROPOSED IMPROVEMENTS NOT SHOWN ON THESE SHEETS. INLET FILTERS SHALL BE INSTALLED IN ALL DRAINAGE STRUCTURE FRAMES WITHIN WORK ZONE.

- SIDEWALK REMOVAL (TYP)
- CURB REMOVAL (TYP)
- PAVEMENT REMOVAL (TYP)
- SAW CUTS (FULL DEPTH), INCIDENTAL (TYP)
- HMA SURFACE REMOVAL, VARIABLE DEPTH (TYP)
- SAW CUTS (PARTIAL DEPTH), INCIDENTAL (TYP)

PROPOSED PLAN



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PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
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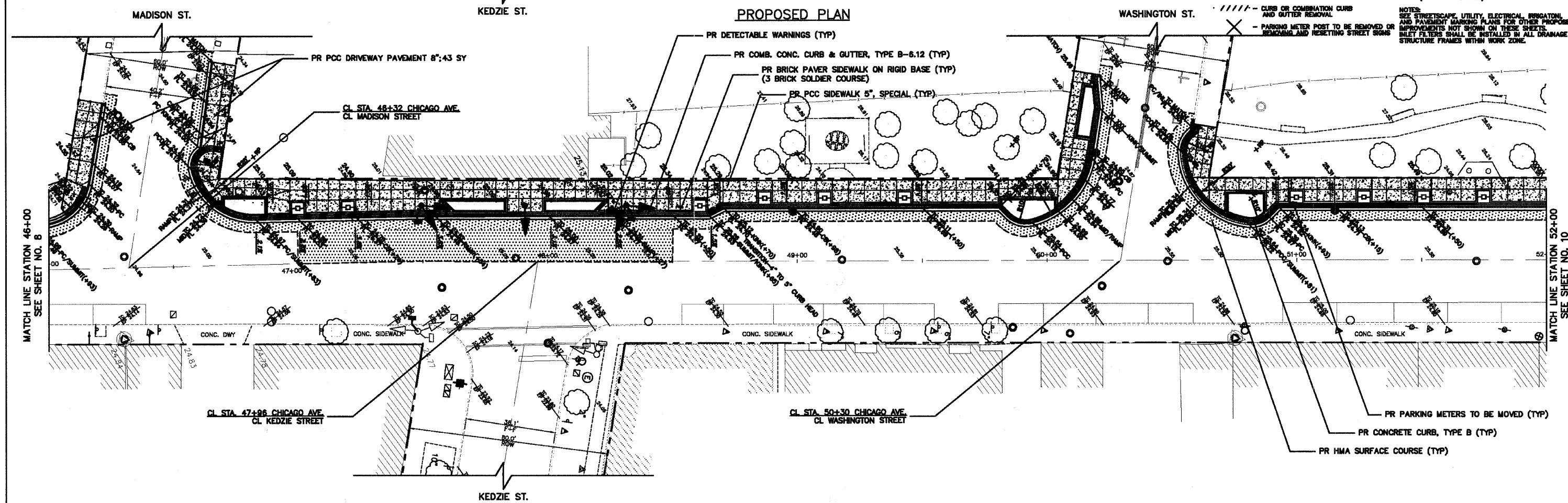
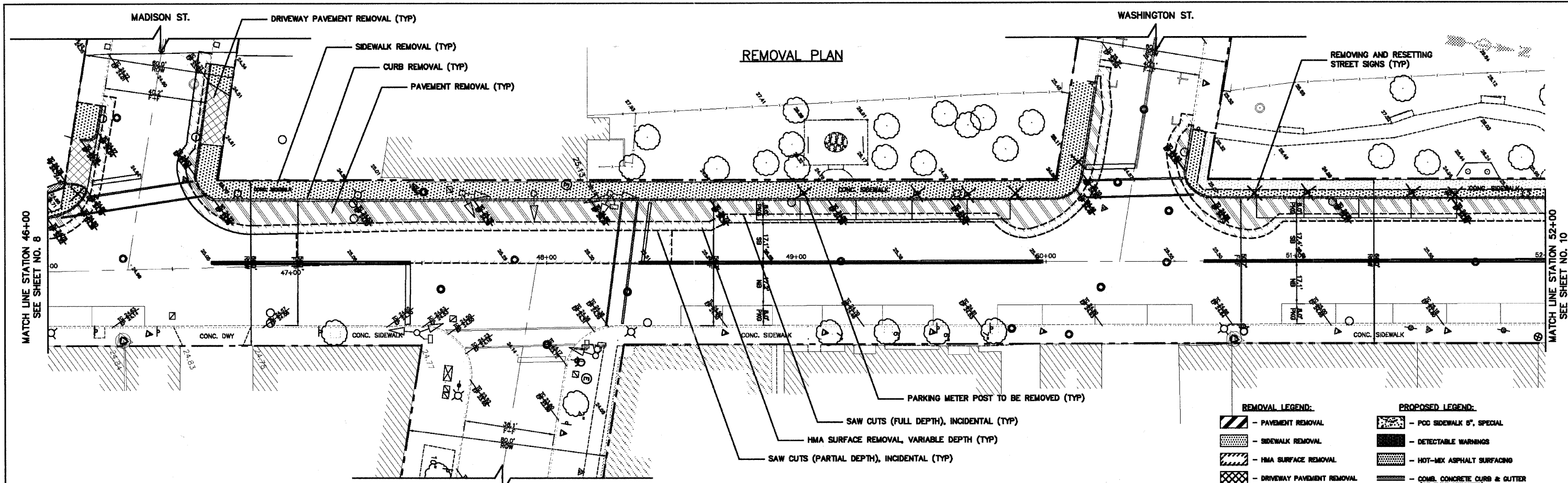
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND PROPOSED PLAN
CHICAGO AVENUE

SCALE: 1" = 20' SHEET NO. 8 OF 39 SHEETS STA. 40+00 TO STA. 46+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	8
CONTRACT NO. 63593				
ILLINOIS FED. AID PROJECT				



- REMOVAL LEGEND:**
- PAVEMENT REMOVAL
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - CURB OR COMBINATION CURB AND GUTTER REMOVAL
 - PARKING METER POST TO BE REMOVED OR REMOVED AND RESETTING STREET SIGNS
- PROPOSED LEGEND:**
- PCC SIDEWALK 5", SPECIAL
 - DETECTABLE WARNINGS
 - HOT-MIX ASPHALT SURFACING
 - COMB. CONCRETE CURB & GUTTER (OF TYPE SPECIFIED)
- NOTES:**
 SEE STREETScape, UTILITY, ELECTRICAL, IRRIGATION, AND PAVEMENT MARKING PLANS FOR OTHER PROPOSED IMPROVEMENTS NOT SHOWN ON THESE SHEETS.
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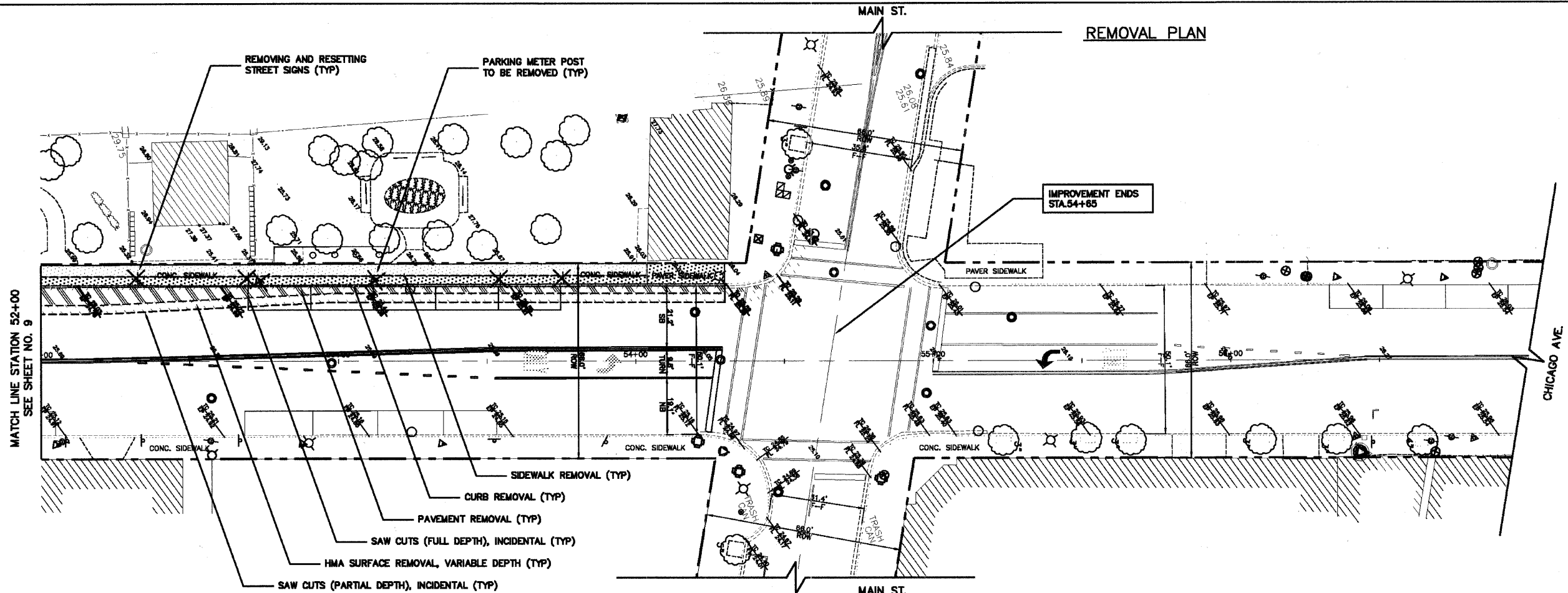
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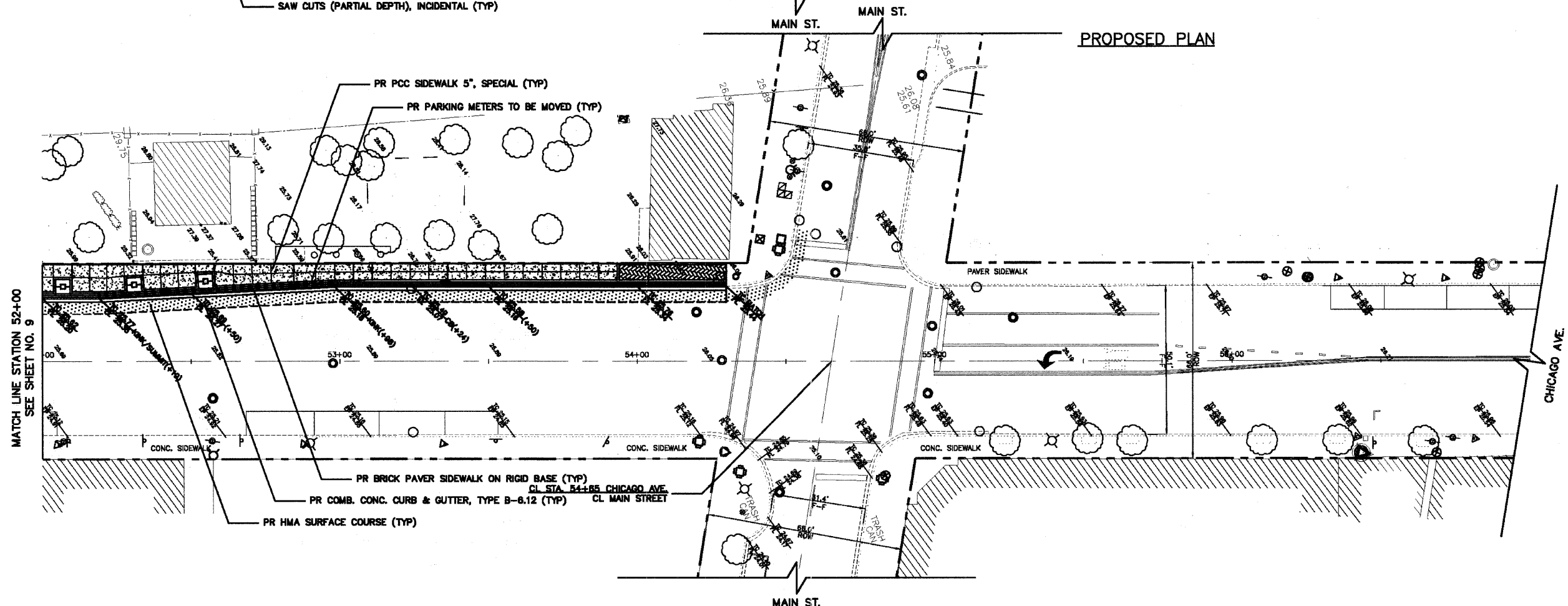
REMOVAL AND PROPOSED PLAN
 CHICAGO AVENUE
 SCALE: 1" = 20'
 SHEET NO. 9 OF 39 SHEETS
 STA. 46+00 TO STA. 52+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-LS	COOK	39	9
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	

REMOVAL PLAN



PROPOSED PLAN



- REMOVAL LEGEND:**
- PAVEMENT REMOVAL
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - CURB OR COMBINATION CURB AND GUTTER REMOVAL
 - PARKING METER POST TO BE REMOVED OR REMOVING AND RESETTING STREET SIGNS
- PROPOSED LEGEND:**
- PCC SIDEWALK 5", SPECIAL
 - BRICK PAVER SIDEWALK
 - DETECTABLE WARNINGS
 - HOT-MIX ASPHALT SURFACING
 - CONC. CONCRETE CURB & GUTTER, TYPE B-8.12 (ABUTTING EXISTING PAVEMENT)
- NOTES:**
SEE STREETScape, UTILITY, ELECTRICAL, IRRIGATION, AND PAVEMENT MARKING PLANS FOR OTHER PROPOSED IMPROVEMENTS NOT SHOWN ON THESE SHEETS. INLET FILTERS SHALL BE INSTALLED IN ALL DRAINAGE STRUCTURE FRAMES WITHIN WORK ZONE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

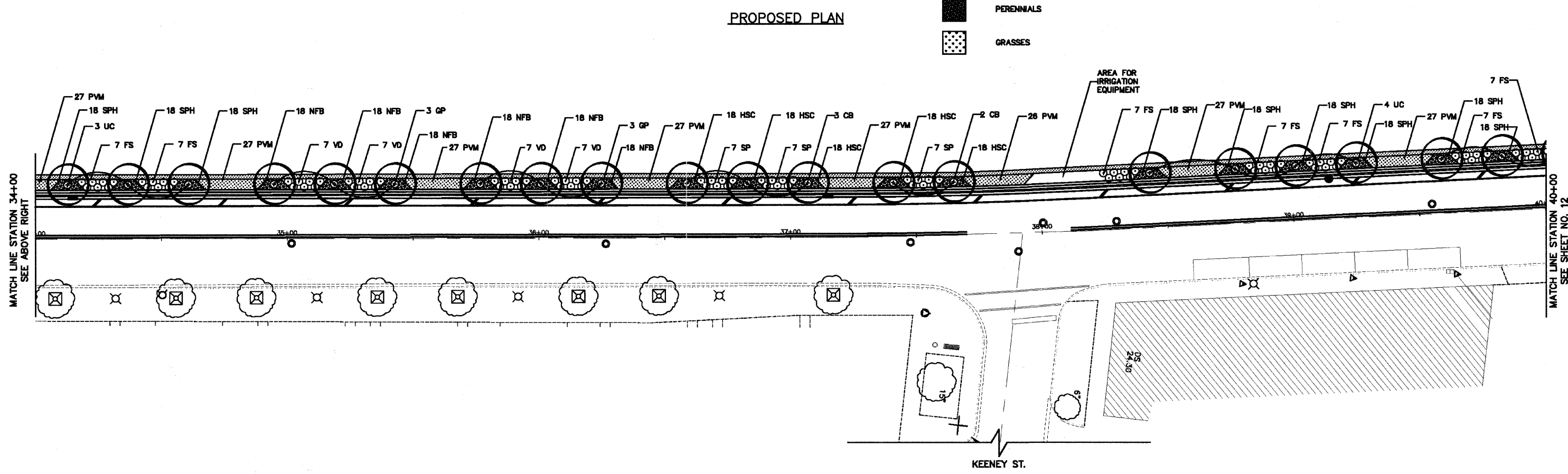
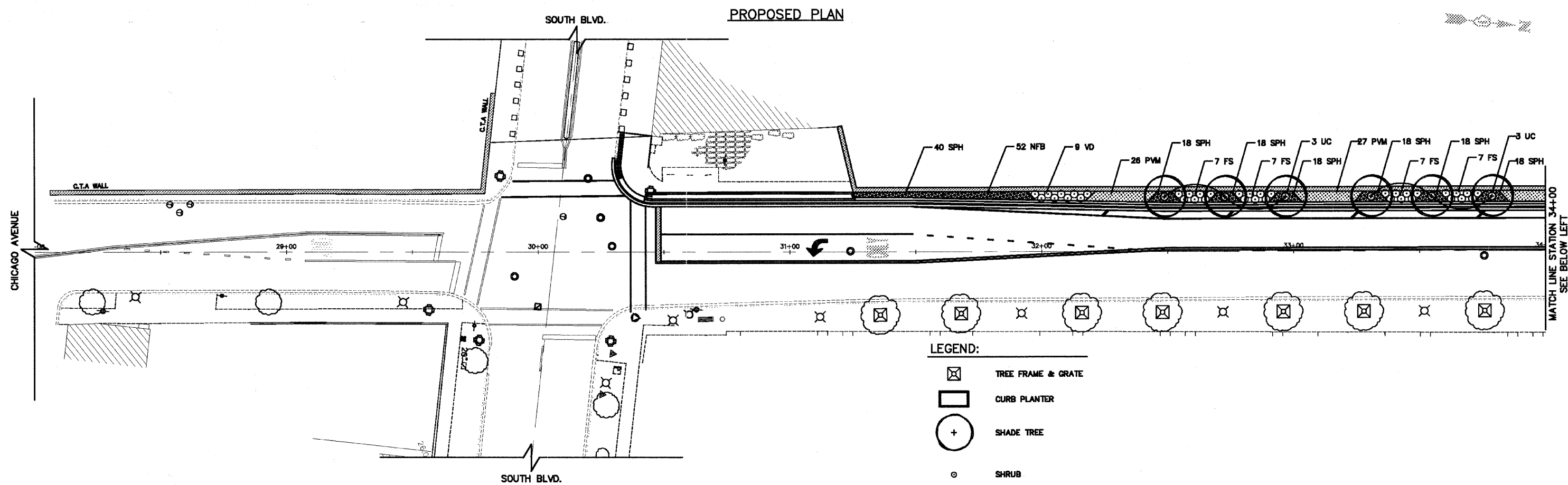
REMOVAL AND PROPOSED PLANS
CHICAGO AVENUE

SCALE: 1" = 20'

SHEET NO. 10 OF 39 SHEETS

STA. 52+00 TO STA. 57+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	10
				CONTRACT NO. 63593
ILLINOIS FED. AID PROJECT				



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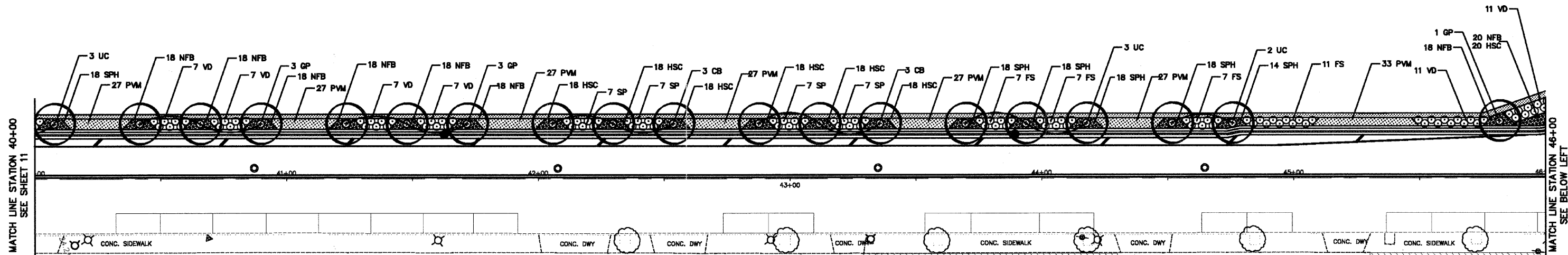
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

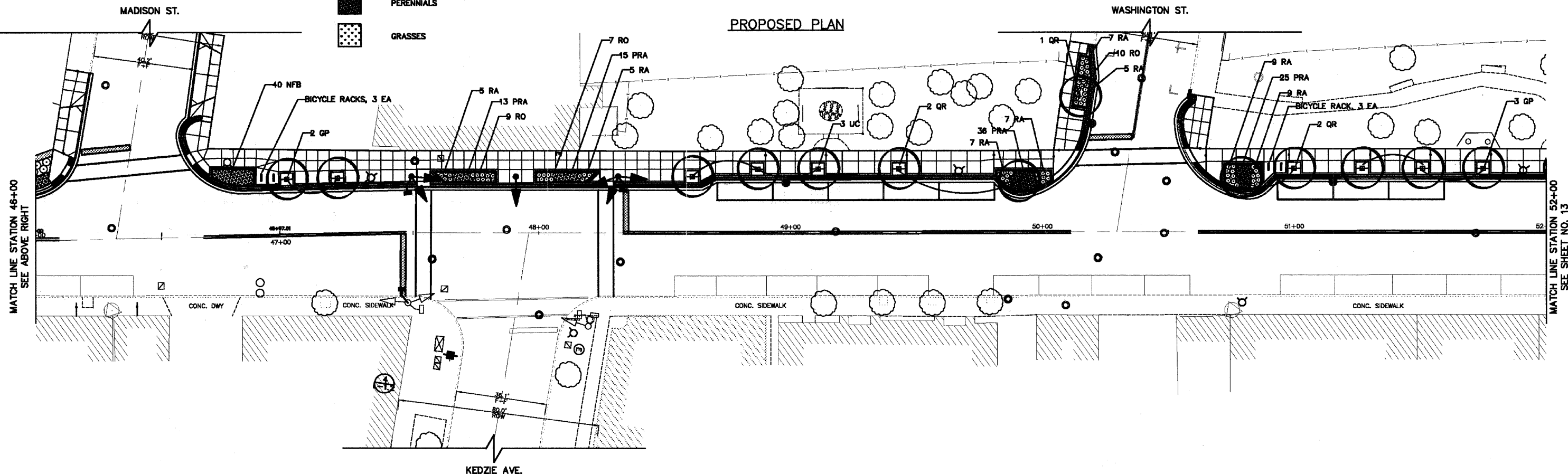
STREETSCAPE IMPROVEMENT / LANDSCAPING PLAN
 CHICAGO AVENUE
 SCALE: 1" = 20' SHEET NO. 11 OF 39 SHEETS STA. 28+00 TO STA. 40+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	11
CONTRACT NO. 63593				
ILLINOIS FED. AID PROJECT				

PROPOSED PLAN



- LEGEND:**
- TREE FRAME & GRATE
 - CURB PLANTER
 - SHADE TREE
 - SHRUB
 - PERENNIALS
 - GRASSES



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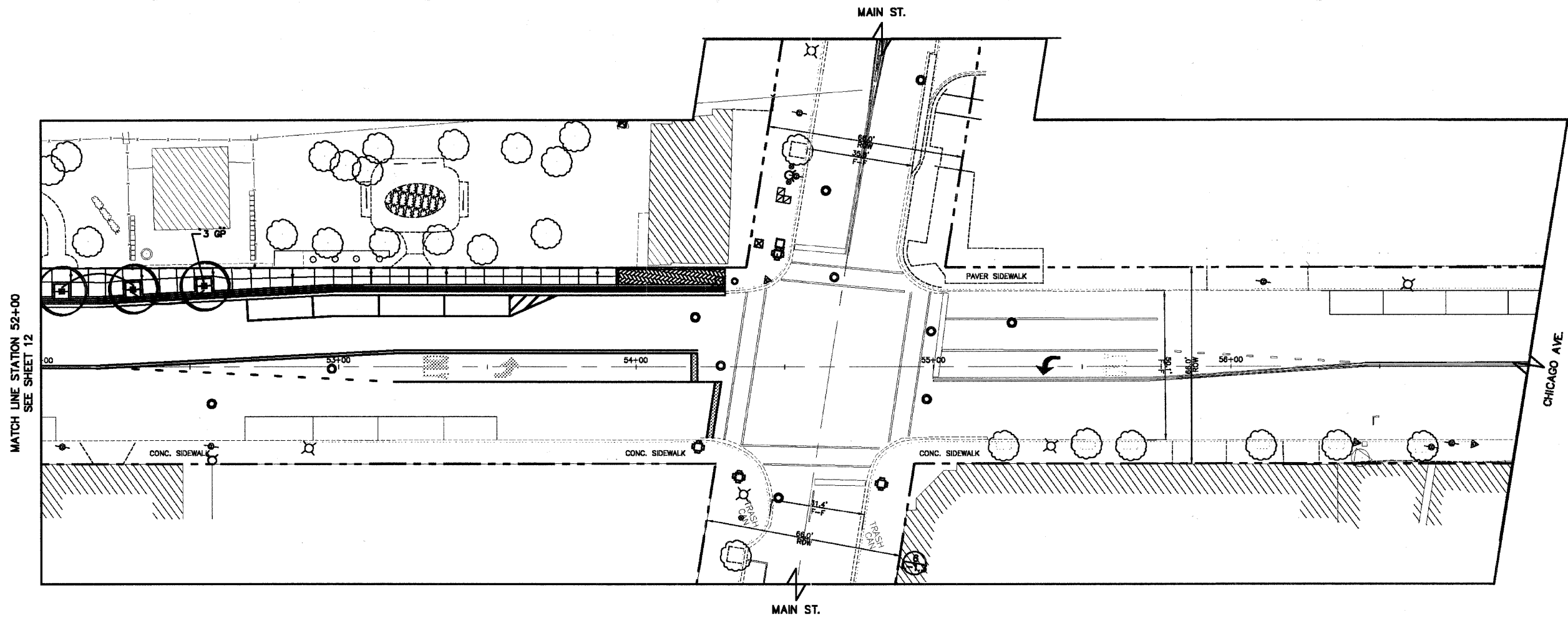
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CHECKED — SN, PC	REVISED —
DATE — 1 / 27 / 2011	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE IMPROVEMENT / LANDSCAPING PLAN
CHICAGO AVENUE
SCALE: 1" = 20' SHEET NO. 12 OF 39 SHEETS STA. 40+00 TO STA. 52+00

F.A.U. RTE. 2853	SECTION 10-00250-00-LS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 12
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	







PROPOSED PLAN



PLANTING SCHEDULE

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
SHADE TREES						
CB	11	CARPINUS BETULUS 'FASTIGIATA'	EUROPEAN HORNBEAM	B & B	3" CAL.	FULL MATCHED SPECIMENS, 6' BRANCHED HEIGHT
GP	21	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	B & B	3" CAL.	MALE ONLY; FULL MATCHED SPECIMENS, 6' BRANCHED HEIGHT
QR	5	QUERCUS RUBRA	RED OAK	B & B	3" CAL.	8' BRANCHED HEIGHT
UC	24	ULMUS CARPINIFOLIA 'HOMESTEAD'	HOMESTEAD ELM	B & B	2 1/2" CAL.	8' BRANCHED HEIGHT
SHRUBS						
RA	54	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	CONT.	#5	SPACING - 24" O.C.
RO	26	ROSA 'RADRAZZ'	KNOCKOUT ROSE	CONT.	#3	SPACING - 24" O.C.
FS	109	RHUS AROMATICA	FRAGRANT SUMAC	CONT.	#3	SPACING - 36" O.C.
SP	49	SYRINGA PATULA 'MISS KIM'	MISS KIM MANCHURIAN LILAC	CONT.	2' HEIGHT	SPACING - 36" O.C.
VD	87	VIBURNUM DENTATUM 'BLUE MUFFIN'	BLUE MUFFIN ARROWHEAD	B & B	3' HEIGHT	SPACING - 36" O.C.
PERENNIAL PLANTS						
PVM	463	PANICUM VIRGATUM 'NORTHWIND'	NORTHWIND SWITCHGRASS	CONT.	#3	SPACING - 24" O.C.
HSC	236	HEMEROCALLIS 'STRAWBERRY CANDY'	STRAWBERRY CANDY DAYLILY	CONT.	#1	SPACING - 18" O.C.
NFB	346	NEPETA X FAASENII 'BLUE WONDER'	BLUE WONDER CATMINT	CONT.	#1	SPACING - 18" O.C.
PRA	89	PEROVSKIA ATRIPPLICIFOLIA	RUSSIAN SAGE	CONT.	#1	SPACING - 18" O.C.
SPH	396	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	CONT.	#1	SPACING - 18" O.C.

LEGEND:

-  TREE FRAME & GRATE
-  CURB PLANTER
-  SHADE TREE
-  SHRUB
-  PERENNIALS
-  GRASSES

GENERAL NOTES:

1. PLANTING BEDS AND TREE PITS FOR TREES WITH GRATES SHALL HAVE TOPSOIL/PLANTING MIX PER SPECIFICATIONS.
2. THE QUANTITIES LISTED ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED.
3. PROVIDE 4" MINIMUM TOPSOIL FOR ALL LAWN AREAS.
4. SHRUB AND PLANTING BED AREAS SHALL HAVE A MINIMUM 12" DEPTH OF PLANTING MIX.
5. PROVIDE 3" OF SHREDDED HARDWOOD BARK MULCH COVER IN ALL PLANTING BEDS, SHRUBS, AND TREES.
6. ALL DISTURBED AREAS SHALL BE RESTORED WITH SODDING UNLESS NOTED OTHERWISE.

PLANS PREPARED BY:



CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
PHONE: (647) 886-2940

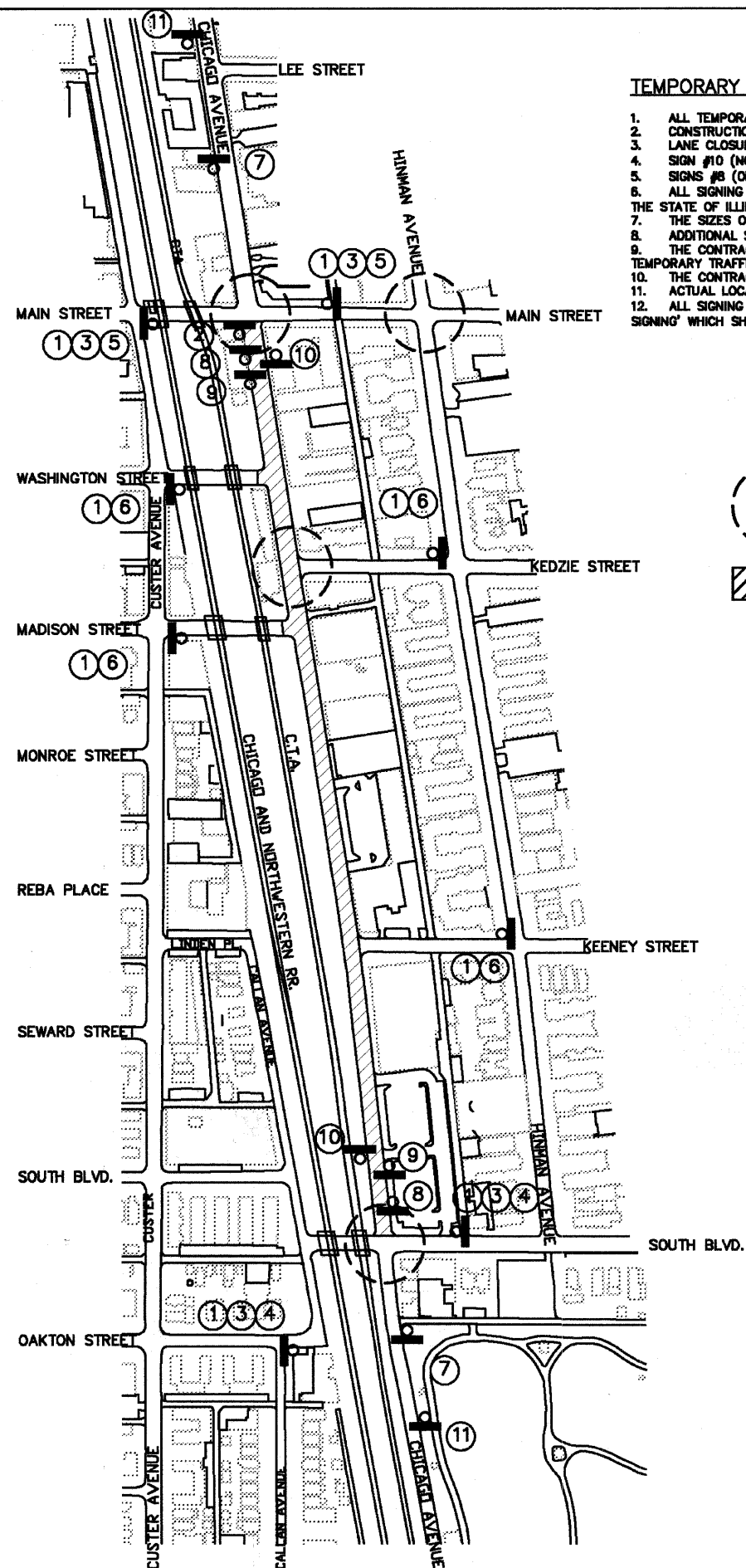
DESIGNED - DSM	REVISED - 7/1/11 PER IDOT
DRAWN - DSM	REVISED - 8/28/11 PER IDOT
CHECKED - SN, PC	REVISED -
DATE - 1 / 27 / 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE IMPROVEMENT / LANDSCAPING PLAN
CHICAGO AVENUE

SCALE: 1" = 20' SHEET NO. 13 OF 39 SHEETS STA. 52+00 TO STA. 64+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	13
CONTRACT NO. 63593				ILLINOIS FED. AID PROJECT



TEMPORARY WARNING SIGN GENERAL NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE RETROREFLECTIVE AND HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND AND BE IN NEW OR LIKE-NEW CONDITION POST MOUNTED AT A MINIMUM OF 7'-FEET.
2. CONSTRUCTION ACTIVITIES SHALL NOT BEGIN UNTIL ALL SIGNING IS PLACED IN ACCORDANCE WITH THIS PLAN AND AS DIRECTED BY THE ENGINEER.
3. LANE CLOSURES MAY ONLY BE IMPLEMENTED BY THE CONTRACTOR BETWEEN THE HOURS OF 9AM - 3PM AND SHALL BE DONE ACCORDING TO STANDARD 701501-06.
4. SIGN #10 (NO LEFT TURN SYMBOL) MAY ONLY BE POSTED WHEN CONSTRUCTION ACTIVITIES REQUIRE A LANE CLOSURE ADJACENT TO A TURN LANE BETWEEN HOURS OF 9AM - 3PM.
5. SIGNS #8 (ONE LANE ROAD AHEAD) AND #9 (FLAGGER) MUST BE POSTED, TAKEN DOWN, AND RELOCATED ON A DAILY BASIS AS NEEDED.
6. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC)" ADOPTED JANUARY 1, 2007 AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)", AND AS DIRECTED BY THE ENGINEER.
7. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
8. ADDITIONAL SIGNING AND/OR BARRICADES DEEMED NECESSARY BY THE ENGINEER SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST.
9. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF THEIR REPRESENTATIVES ON THE CONSTRUCTION SITE AND THEIR REPRESENTATIVE RESPONSIBLE FOR MAINTAINING ALL ASPECTS OF THE TEMPORARY TRAFFIC CONTROL PRIOR TO THE START OF WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL CONSTRUCTION SIGNING. THE CONTRACTOR MAY REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS OF ANY SIGNS.
11. ACTUAL LOCATIONS FOR SIGNING SHOWN ON THE TEMPORARY SIGNING PLAN MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
12. ALL SIGNING AND BARRICADES REQUIRED ON THIS PLAN, THE MUTCD, AND THE SSRBC SHALL BE CONSIDERED IN THE LUMP SUM UNIT PRICE BID FOR "TRAFFIC CONTROL AND PROTECTION, SPECIAL" EXCEPT FOR "TEMPORARY INFORMATION SIGNING" WHICH SHALL BE PAID FOR SEPARATELY ACCORDING TO DISTRICT DETAIL TC-22.

LEGEND

- SIGNALIZED INTERSECTION
- CONSTRUCTION ZONE
- CONSTRUCTION WARNING SIGN (NUMBER DENOTES TYPE)
- FLASHING LIGHT

WARNING SIGN LEGEND

- ① ROAD CONSTRUCTION AHEAD
 - ② NO LEFT TURN
 - ③ CHICAGO AVE.
 - ④ NORTHBOUND
 - ⑤ SOUTHBOUND
 - ⑥ TWO-WAY TRAFFIC
 - ⑦ TEMPORARY INFORMATION SIGN
 - ⑧* ONE LANE ROAD AHEAD
 - ⑨* FLAGGER
 - ⑩* NO LEFT TURN (RED AND BLACK ON WHITE)
 - ⑪ CHANGEABLE MESSAGE SIGN
- * - MOUNTED ON PORTABLE SIGN SUPPORTS FOR DAILY USE AS NEEDED

MAINTENANCE OF TRAFFIC LEGEND:

- ① TEMPORARY PAVEMENT MARKING LINE - 4" (DOUBLE YELLOW); TYPE III TAPE
- ② TEMPORARY PAVEMENT MARKING LINE - 4" (WHITE); TYPE III TAPE
- ③ DRUM TYPE BARRICADES AT 50' CENTERS ON TANGENTS, 25' ON TAPERS AND 10' ON RADII (OR SAW HORSE TYPE BARRICADES WITH SANDBAGS)

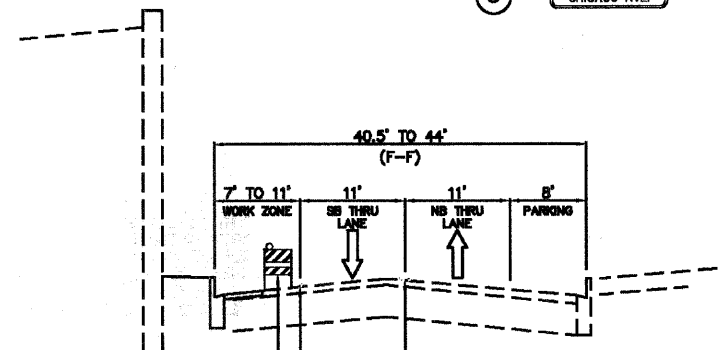
NOTES:

1. ALL "TEMPORARY PAVEMENT MARKING LINES" SHALL BE TYPE III TAPE
2. "TEMPORARY PAVEMENT MARKING LINE 24" (WHITE) SHALL BE INSTALLED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER
3. TEMPORARY LETTERS AND SYMBOLS INSTALLED AT SOUTH BLVD. AND AT MAIN ST. SHALL BE INSTALLED ACCORDING TO DISTRICT 1 DETAIL TC 18
4. "PAVEMENT MARKING REMOVAL" SHALL BE PAID TO REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER
5. "WORK ZONE PAVEMENT MARKING REMOVAL" SHALL BE PAID TO REMOVE TEMPORARY PAVEMENT MARKINGS

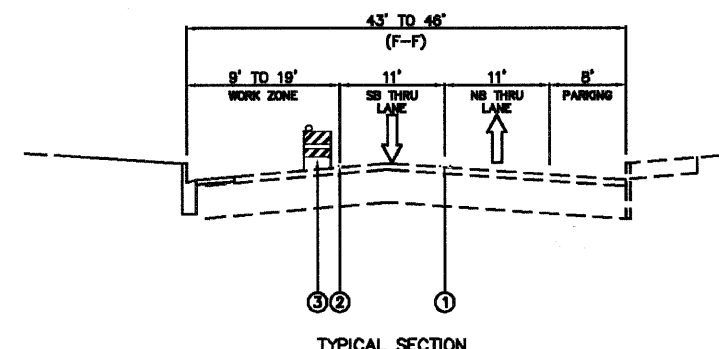
TEMPORARY TRAFFIC CONTROL STANDARD LIST:

- 701421-02 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY
- 701501-05 URBAN LANE CLOSURE 2L 2W - UNDIVIDED
- 701701-07 URBAN LANE CLOSURE MULTILANE INTERSECTION
- 701801-04 URBAN LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES

- TC 18 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
- TC 22 ARTERIAL ROAD INFORMATION SIGN

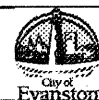


TYPICAL SECTION
CHICAGO AVENUE
STA. 31+24 TO 46+32



TYPICAL SECTION
CHICAGO AVENUE
STA. 46+32 TO 54+65

PLANS PREPARED BY:



CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT TRANSPORTATION
AND ENGINEERING DIVISION
PHONE: (847) 699-2824

DESIGNED - DSM	REVISED - 7/1/11 PER IDOT
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DATE - 1 / 27 / 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
CHICAGO AVENUE

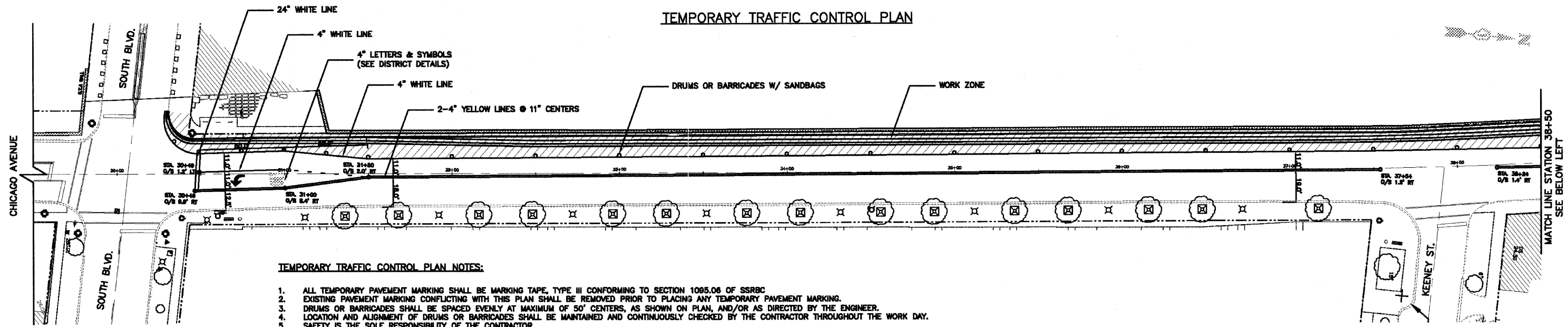
SCALE: N.T.S.

SHEET NO. 14 OF 36 SHEETS

STA. N.A. TO STA. N.A.

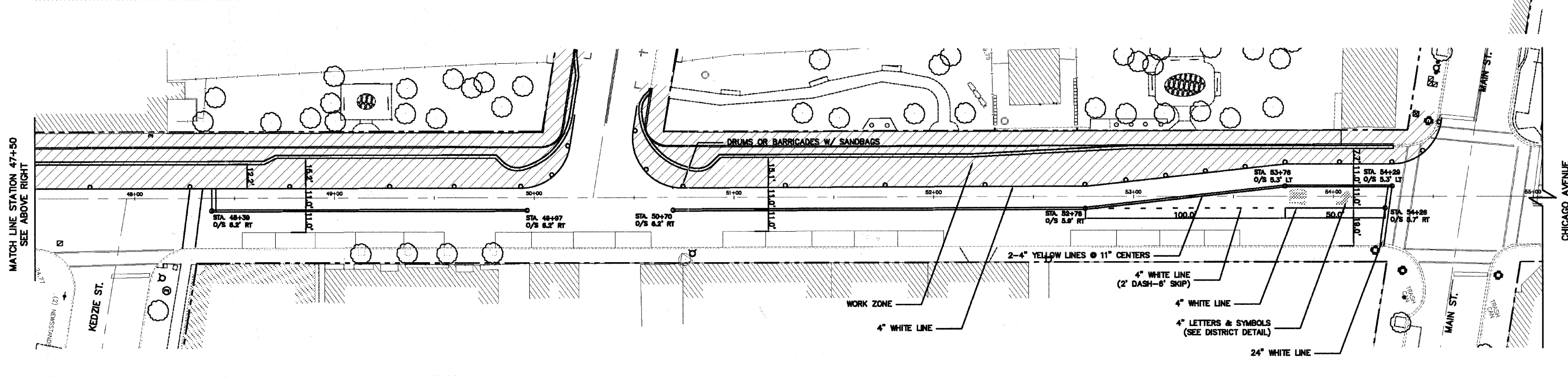
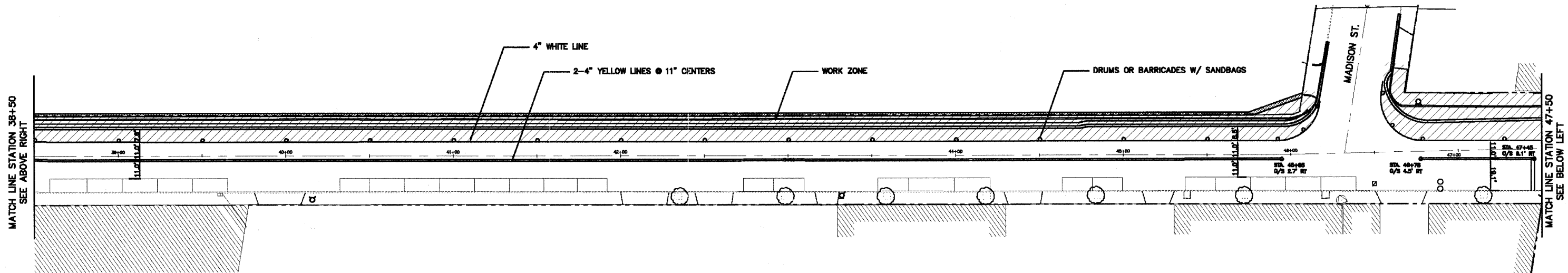
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-LS	COOK	39	14
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	


TEMPORARY TRAFFIC CONTROL PLAN



TEMPORARY TRAFFIC CONTROL PLAN NOTES:

1. ALL TEMPORARY PAVEMENT MARKING SHALL BE MARKING TAPE, TYPE III CONFORMING TO SECTION 1065.06 OF SSRBC
2. EXISTING PAVEMENT MARKING CONFLICTING WITH THIS PLAN SHALL BE REMOVED PRIOR TO PLACING ANY TEMPORARY PAVEMENT MARKING.
3. DRUMS OR BARRICADES SHALL BE SPACED EVENLY AT MAXIMUM OF 50' CENTERS, AS SHOWN ON PLAN, AND/OR AS DIRECTED BY THE ENGINEER.
4. LOCATION AND ALIGNMENT OF DRUMS OR BARRICADES SHALL BE MAINTAINED AND CONTINUOUSLY CHECKED BY THE CONTRACTOR THROUGHOUT THE WORK DAY.
5. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



PLANS PREPARED BY:
 CITY OF EVANSTON
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 DIVISION OF TRANSPORTATION
 PHONE: (647) 696-2940

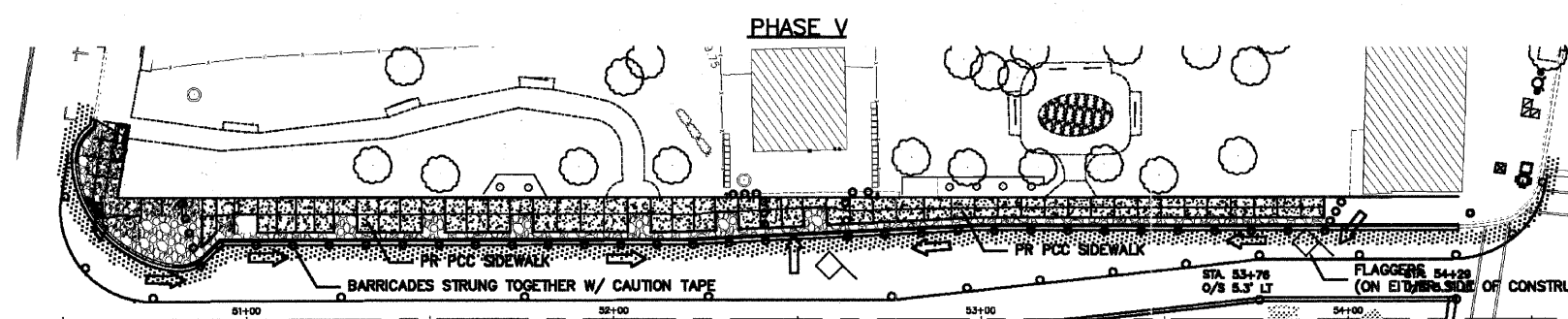
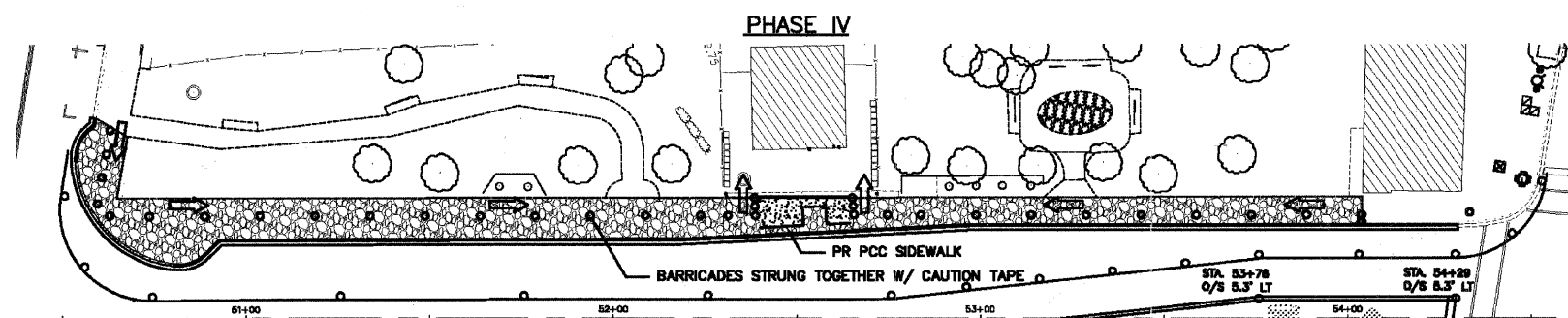
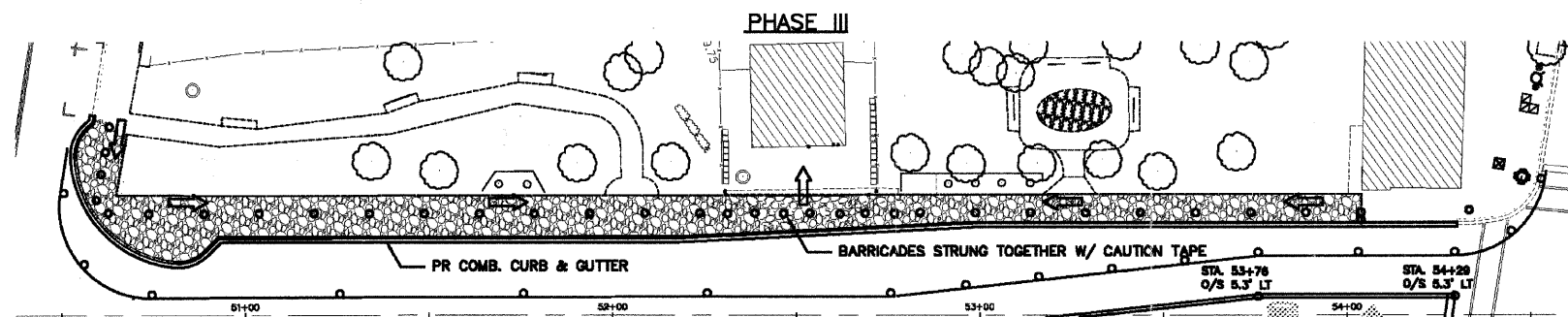
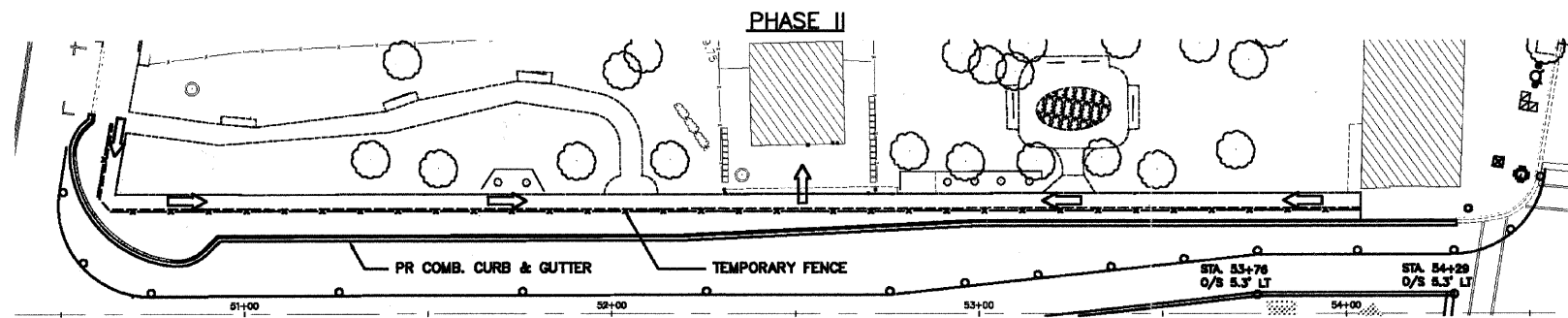
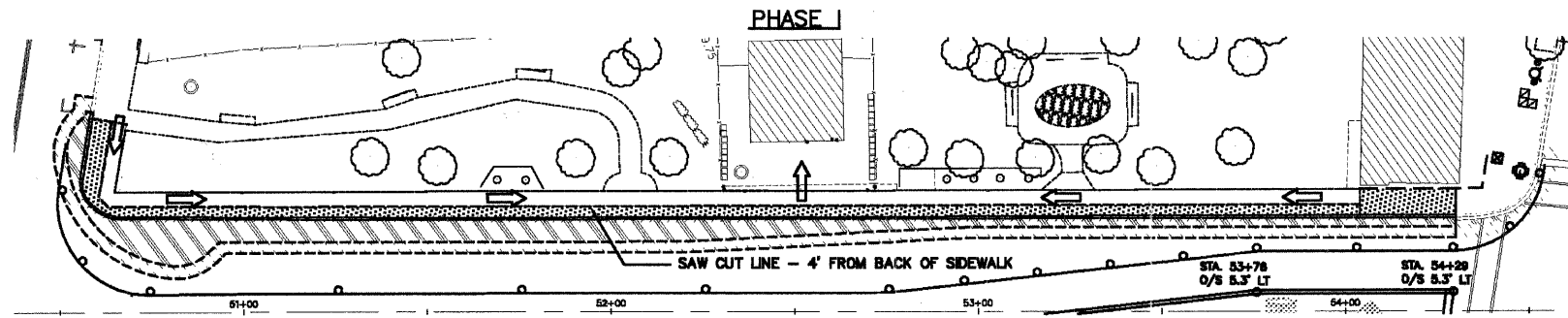
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CHECKED — SN, PC	REVISED —
DATE — 1 / 27 / 2011	REVISED —

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
 CHICAGO AVENUE
 SCALE: 1" = 30'
 SHEET NO. 15 OF 39 SHEETS
 STA. 29+50 TO STA. 55+00

F.A.U. RTE. 2853	SECTION 10-00250-00-LS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 15
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	





MAINTENANCE OF PEDESTRIAN TRAFFIC @ C.T.A. RAILWAY ENTRANCE



SEQUENCE OF CONSTRUCTION:

- PHASE I:
1. SAW CUT PAVEMENT AND SIDEWALK (SIDEWALK SHALL BE CUT AT 4' OFFSET FROM THE BACK OF EXISTING WALK)
 2. REMOVE EXISTING PAVEMENT, CURBING, AND PORTION OF SIDEWALK ADJACENT TO CURBING WHILE SIMULTANEOUSLY INSTALLING 'TEMPORARY FENCE' ABUTTING EXISTING SIDEWALK REMAINING IN PLACE
 3. INSTALL AND MAINTAIN COMPACTED TEMPORARY AGGREGATE RAMPS AT INTERSECTION CROSSINGS (PROVIDE A 4'-WIDE(MIN.) WALKWAY)
- PHASE II:
4. INSTALL PROPOSED COMB. CONCRETE CURB & GUTTER AND PCC BASE COURSE (MAINTAIN PEDESTRIAN ACCESS AT INTERSECTION CROSSINGS)
- PHASE III:
5. REMOVE REMAINING EXISTING SIDEWALK, FINE GRADE AND COMPACT SUBGRADE, AND INSTALL COMPACTED GRANULAR SUBBASE IN SAME OPERATION
 6. PLACE DRUMS OR BARRICADES TO PROVIDE A 4'-WIDE WALKWAY ON COMPACTED SUBBASE (STRING CAUTION TAPE BETWEEN DRUMS/BARRICADES)
- PHASE IV:
7. INSTALL PROPOSED PCC SIDEWALK IN FRONT OF C.T.A. RAILWAY ENTRANCE ONLY WHILE MAINTAINING ACCESS TO ENTRANCE ON EITHER SIDE OF POUR
- PHASE V:
8. BUILD FORMWORK FOR REMAINING PROPOSED SIDEWALK
 9. PLACE DRUMS/BARRICADES IN A MANNER TO PROVIDE ACCESS TO C.T.A. ENTRANCE USING ROADWAY SURFACE
 10. POUR REMAINING SIDEWALK WHILE CONTROLLING PEDESTRIAN TRAFFIC WITH A FLAGGER ON EITHER SIDE OF WORK ZONE
- NOTE: PEDESTRIAN TRAFFIC MUST BE PLACED ON NEWLY INSTALLED SIDEWALK WITHIN 48 HOURS OF POUR

LEGEND:

-  PEDESTRIAN PATH
-  BARRICADE (DRUM TYPE OR BARRICADE W/ SANDBAGS)
-  SUB-BASE GRANULAR MATERIAL (FINE GRADED AND COMPACTED)
-  FLAGGER (TO CONTROL PEDESTRIAN TRAFFIC THRU WORK ZONE)

PLANS PREPARED BY:  CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
PHONE: (647) 698-2940

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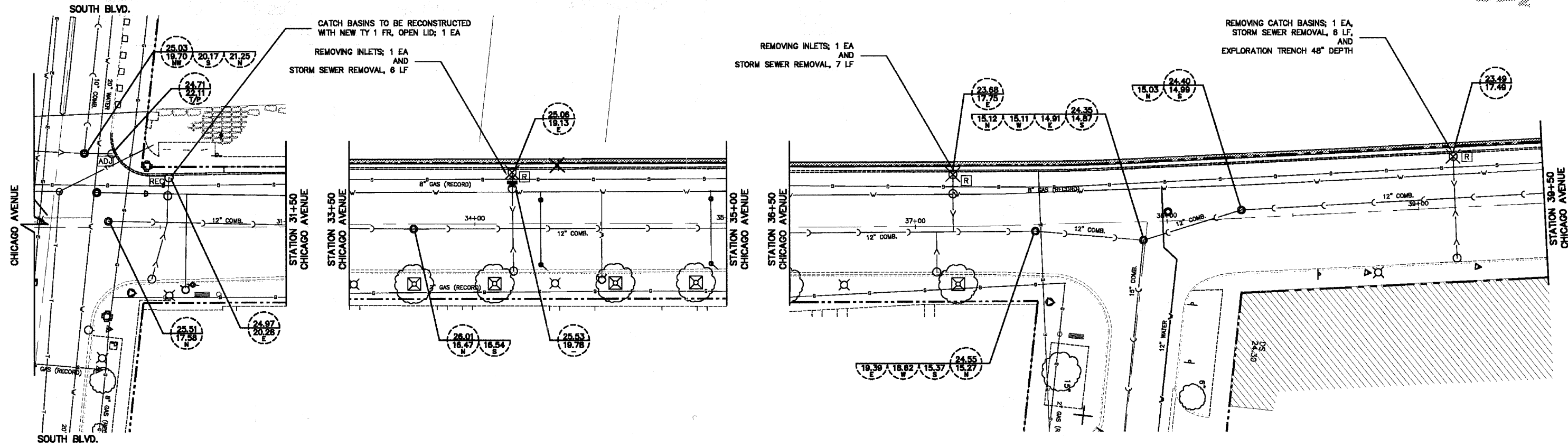
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
CHICAGO AVENUE

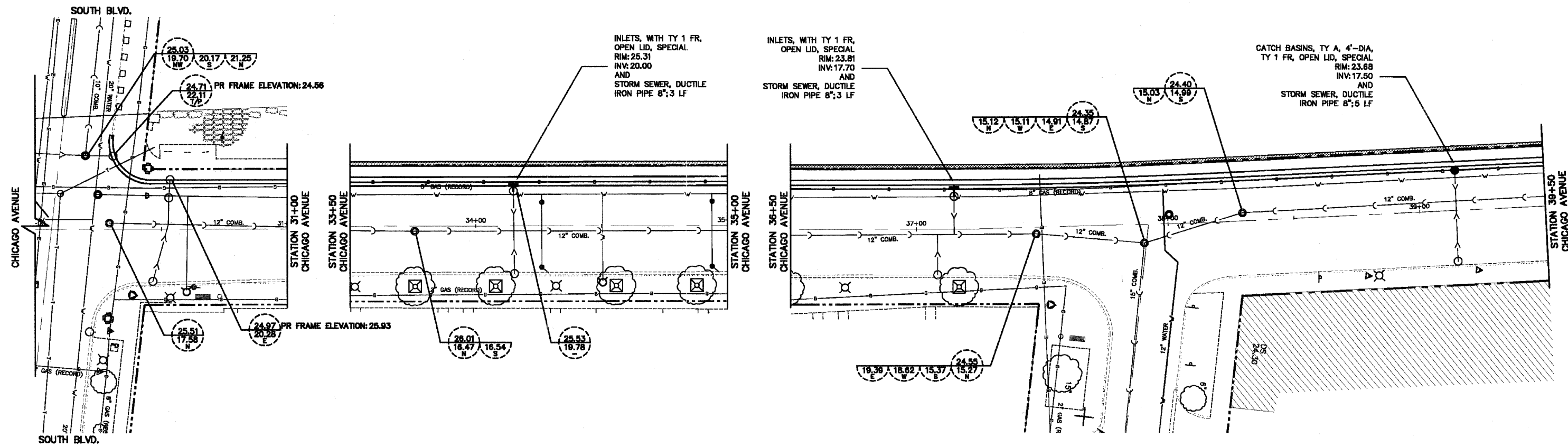
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	16
			CONTRACT NO. 63593	
ILLINOIS FED. AID PROJECT				

REMOVAL PLAN



PROPOSED PLAN



PLANS PREPARED BY:



CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
PHONE: (847) 696-2940

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY PLAN
CHICAGO AVENUE

SCALE: 1" = 20' SHEET NO. 17 OF 39 SHEETS STA. 28+00 TO STA. 39+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-LS	COOK	39	17
CONTRACT NO. 63593				

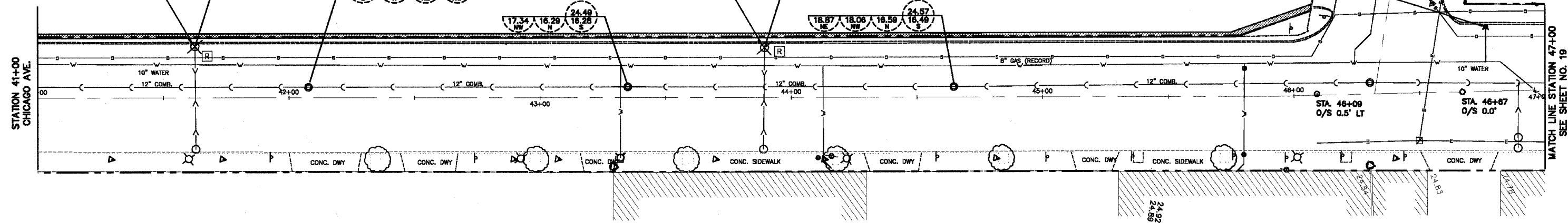
ILLINOIS FED. AID PROJECT

REMOVAL PLAN

REMOVING CATCH BASINS; 1 EA,
TY 1 SEWER REMOVAL, 5 LF,
AND
EXPLORATION TRENCH 48" DEPTH

REMOVING CATCH BASINS; 1 EA,
TY 1 SEWER REMOVAL, 5 LF,
AND
EXPLORATION TRENCH 48" DEPTH

FIRE HYDRANTS TO BE RELOCATED; 1 EA

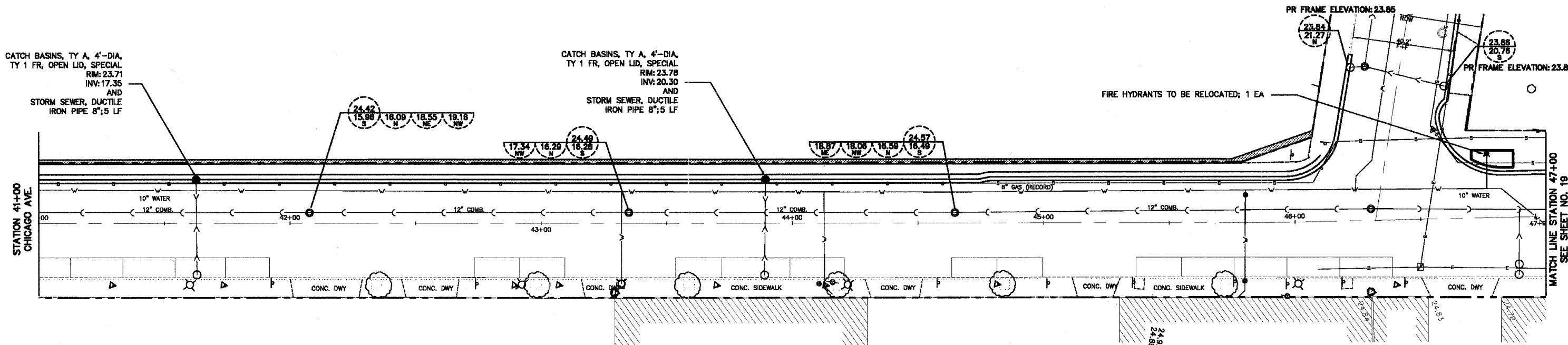



PROPOSED PLAN

CATCH BASINS, TY A, 4'-DIA,
TY 1 FR, OPEN LID, SPECIAL
RIM: 23.71
INV: 17.35
AND
STORM SEWER, DUCTILE
IRON PIPE 8";5 LF

CATCH BASINS, TY A, 4'-DIA,
TY 1 FR, OPEN LID, SPECIAL
RIM: 23.78
INV: 20.30
AND
STORM SEWER, DUCTILE
IRON PIPE 8";5 LF

FIRE HYDRANTS TO BE RELOCATED; 1 EA



PLANS PREPARED BY:

 CITY OF EVANSTON
 PUBLIC WORKS DEPARTMENT
 DIVISION OF TRANSPORTATION
 PHONE: (647) 866-2940

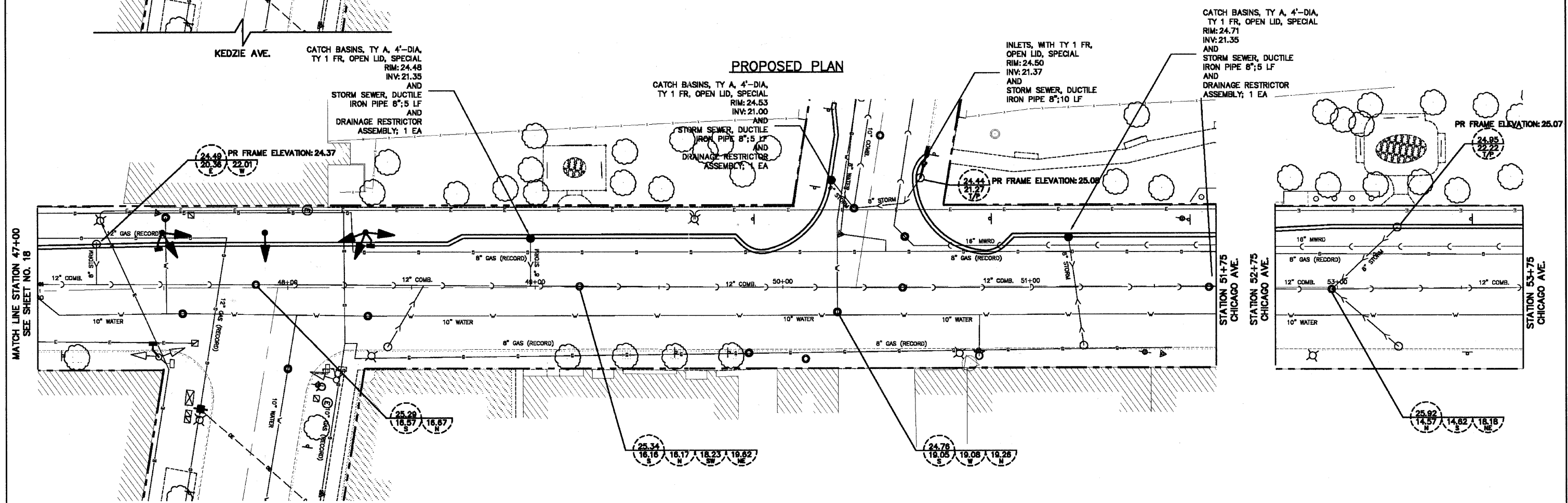
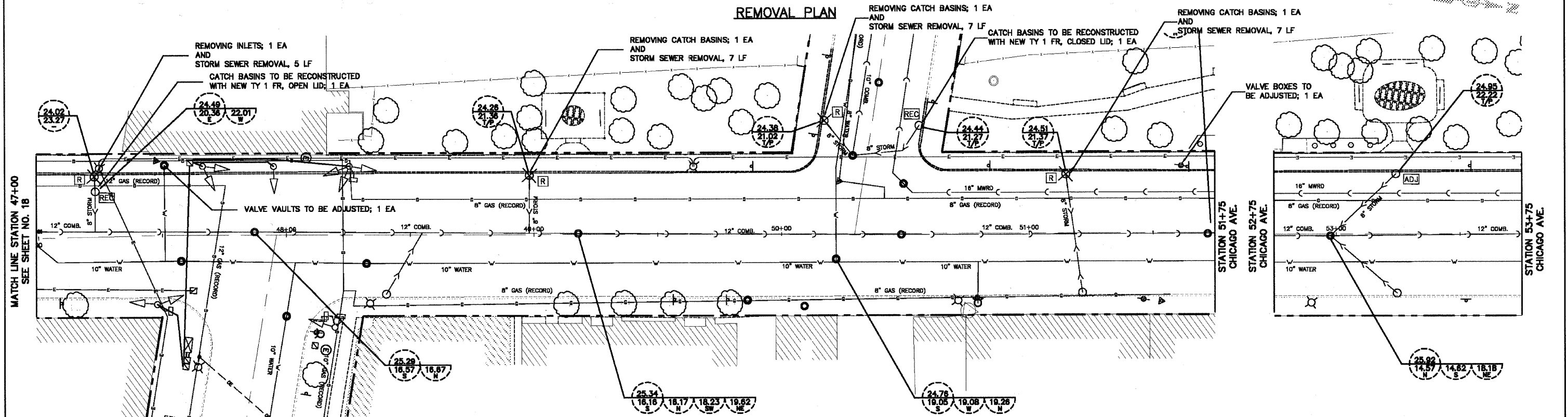
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DRAWN - DSM	REVISED - 8/28/11 PER IDOT
CHECKED - SN, PC	REVISED -
DATE - 1 / 27 / 2011	REVISED -


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY PLAN
 CHICAGO AVENUE

SCALE: 1" = 20' SHEET NO. 18 OF 39 SHEETS STA. 41+00 TO STA. 47+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00269-00-LS	COOK	39	18
				CONTRACT NO. 63593
ILLINOIS FED. AID PROJECT				



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PUBLIC WORKS DEPARTMENT
DIVISION OF TRANSPORTATION
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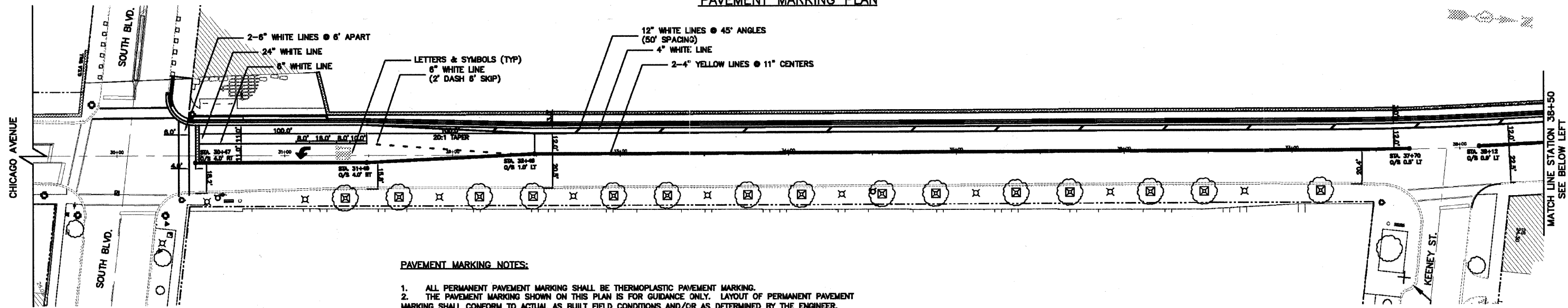
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY PLAN
CHICAGO AVENUE
SCALE: 1" = 20'
SHEET NO. 19 OF 39 SHEETS
STA. 47+00 TO STA. 53+75

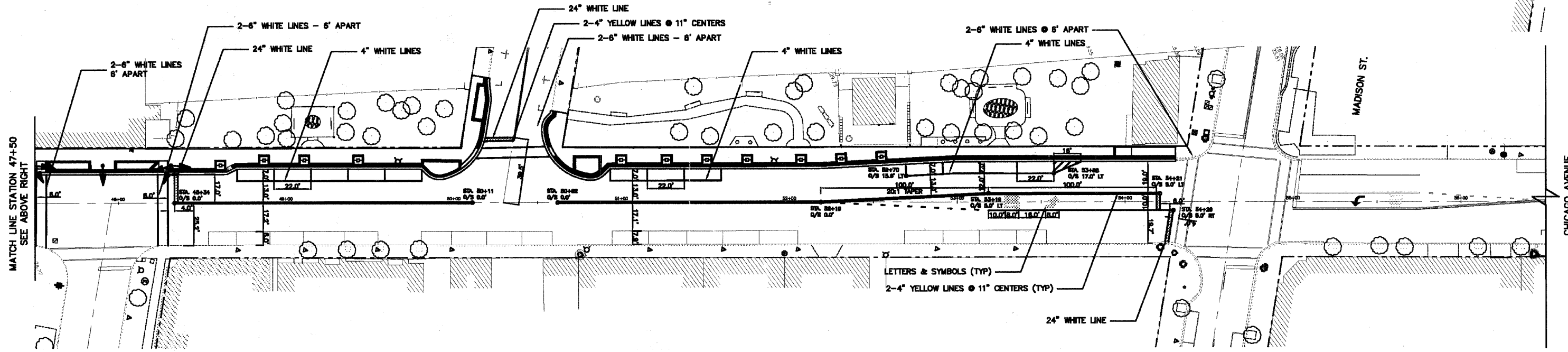
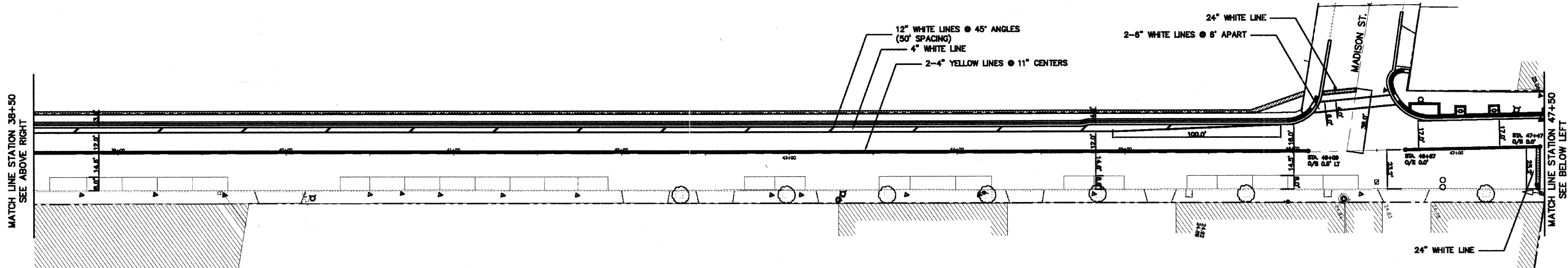
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-000256-00-LS	COOK	39	19
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING PLAN



PAVEMENT MARKING NOTES:

1. ALL PERMANENT PAVEMENT MARKING SHALL BE THERMOPLASTIC PAVEMENT MARKING.
2. THE PAVEMENT MARKING SHOWN ON THIS PLAN IS FOR GUIDANCE ONLY. LAYOUT OF PERMANENT PAVEMENT MARKING SHALL CONFORM TO ACTUAL AS BUILT FIELD CONDITIONS AND/OR AS DETERMINED BY THE ENGINEER.



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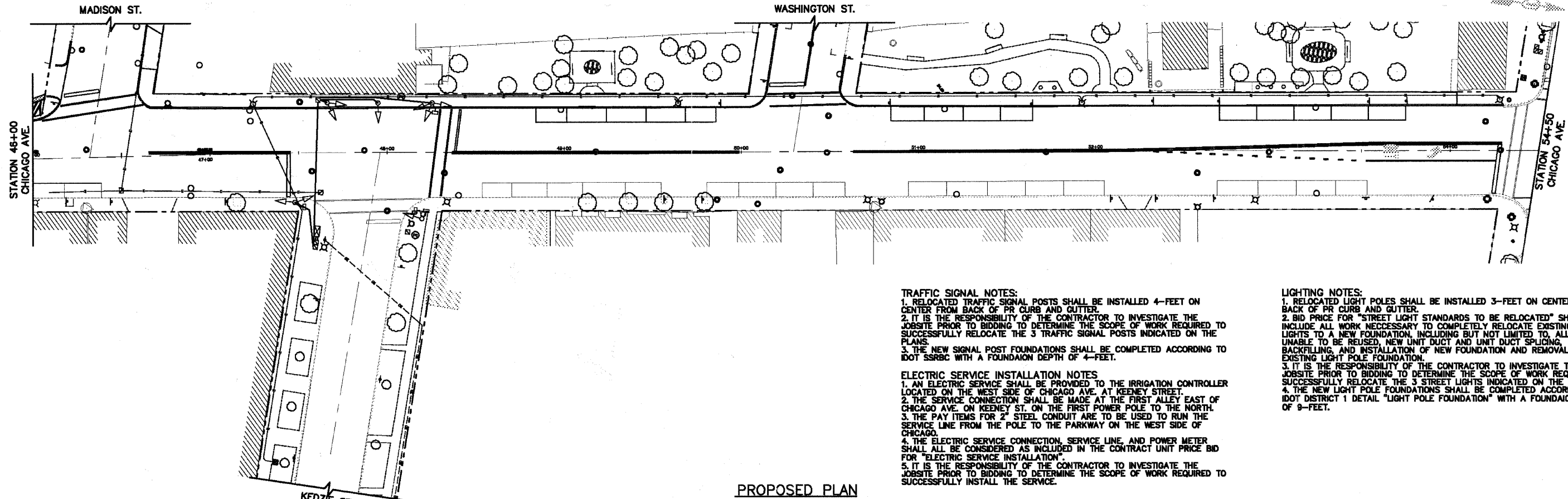
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DRAWN - DSM	REVISED - 8/28/11 PER IDOT
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
CHICAGO AVENUE
SCALE: 1" = 30'
SHEET NO. 20 OF 39 SHEETS
STA. 29+50 TO STA. 58+50

F.A.U. RTE. 2853	SECTION 10-00259-00-LS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 20
CONTRACT NO. 63593				ILLINOIS FED. AID PROJECT

EXISTING PLAN



TRAFFIC SIGNAL NOTES:

1. RELOCATED TRAFFIC SIGNAL POSTS SHALL BE INSTALLED 4- FEET ON CENTER FROM BACK OF PR CURB AND GUTTER.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE THE JOBSITE PRIOR TO BIDDING TO DETERMINE THE SCOPE OF WORK REQUIRED TO SUCCESSFULLY RELOCATE THE 3 TRAFFIC SIGNAL POSTS INDICATED ON THE PLANS.
3. THE NEW SIGNAL POST FOUNDATIONS SHALL BE COMPLETED ACCORDING TO IDOT SSRBC WITH A FOUNDATION DEPTH OF 4- FEET.

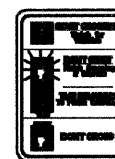
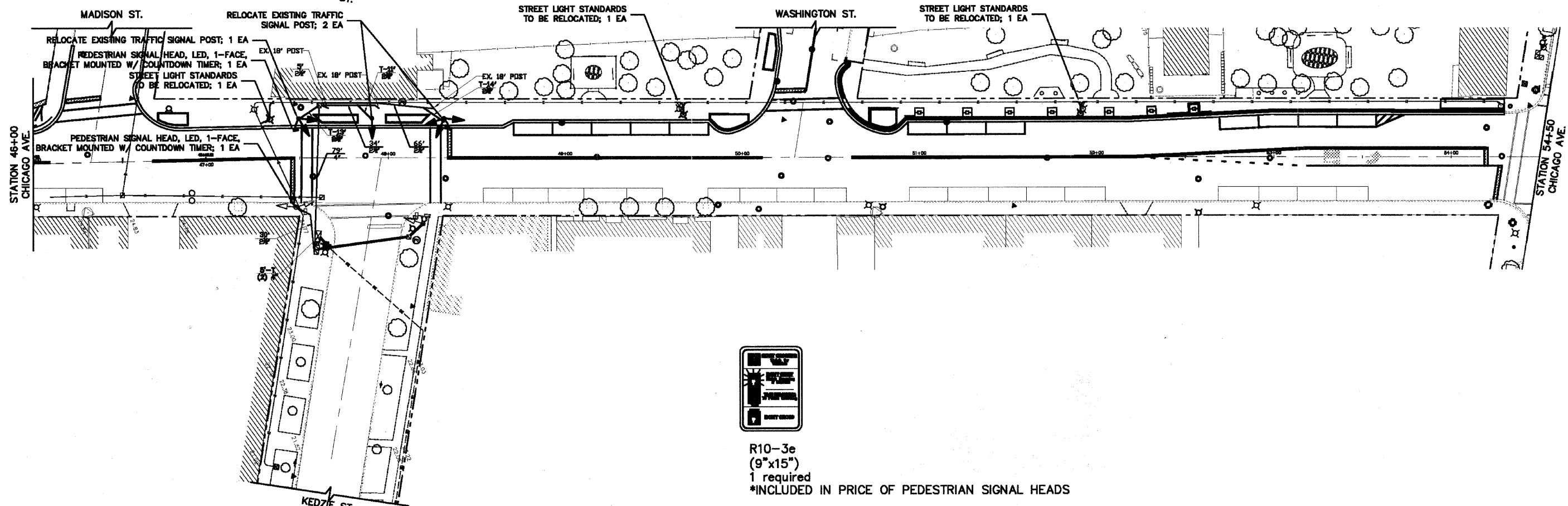
LIGHTING NOTES:

1. RELOCATED LIGHT POLES SHALL BE INSTALLED 3- FEET ON CENTER FROM BACK OF PR CURB AND GUTTER.
2. BID PRICE FOR "STREET LIGHT STANDARDS TO BE RELOCATED" SHALL INCLUDE ALL WORK NECESSARY TO COMPLETELY RELOCATE EXISTING STREET LIGHTS TO A NEW FOUNDATION, INCLUDING BUT NOT LIMITED TO, ALL CABLE UNABLE TO BE REUSED, NEW UNIT DUCT AND UNIT DUCT SPlicing, BACKFILLING, AND INSTALLATION OF NEW FOUNDATION AND REMOVAL OF EXISTING LIGHT POLE FOUNDATION.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE THE JOBSITE PRIOR TO BIDDING TO DETERMINE THE SCOPE OF WORK REQUIRED TO SUCCESSFULLY RELOCATE THE 3 STREET LIGHTS INDICATED ON THE PLANS.
4. THE NEW LIGHT POLE FOUNDATIONS SHALL BE COMPLETED ACCORDING TO IDOT DISTRICT 1 DETAIL "LIGHT POLE FOUNDATION" WITH A FOUNDATION DEPTH OF 9- FEET.

ELECTRIC SERVICE INSTALLATION NOTES

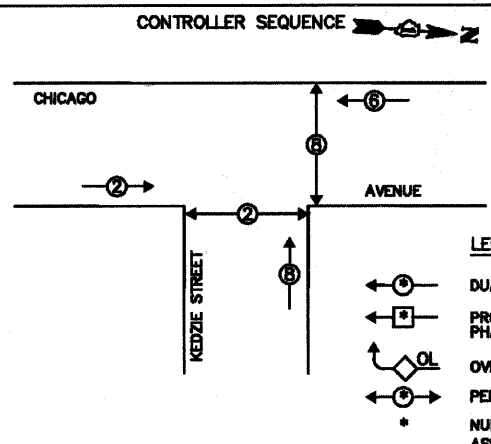
1. AN ELECTRIC SERVICE SHALL BE PROVIDED TO THE IRRIGATION CONTROLLER LOCATED ON THE WEST SIDE OF CHICAGO AVE. AT KEENEY STREET.
2. THE SERVICE CONNECTION SHALL BE MADE AT THE FIRST ALLEY EAST OF CHICAGO AVE. ON KEENEY ST. ON THE FIRST POWER POLE TO THE NORTH.
3. THE PAY ITEMS FOR 2" STEEL CONDUIT ARE TO BE USED TO RUN THE SERVICE LINE FROM THE POLE TO THE PARKWAY ON THE WEST SIDE OF CHICAGO.
4. THE ELECTRIC SERVICE CONNECTION, SERVICE LINE, AND POWER METER SHALL ALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR "ELECTRIC SERVICE INSTALLATION".
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE THE JOBSITE PRIOR TO BIDDING TO DETERMINE THE SCOPE OF WORK REQUIRED TO SUCCESSFULLY INSTALL THE SERVICE.

PROPOSED PLAN



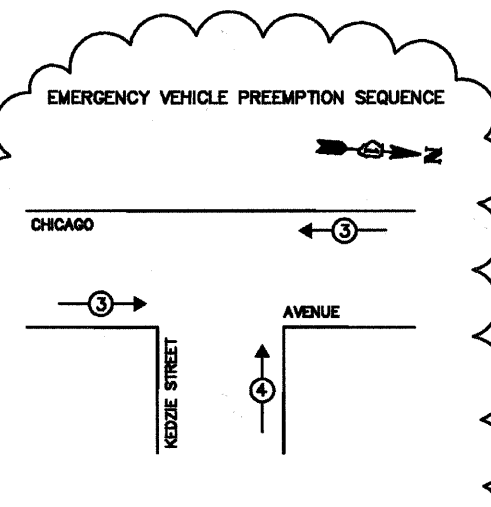
R10-3e
(9"x15")
1 required
*INCLUDED IN PRICE OF PEDESTRIAN SIGNAL HEADS

PLANS PREPARED BY:  CITY OF EVANSTON PUBLIC WORKS DEPARTMENT DIVISION OF TRANSPORTATION PHONE: (847) 886-2940	DESIGNED - DSM	REVISED - 7/1/11 PER IDOT	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL AND LIGHT POLE RELOCATION		FA.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - DSM	REVISED - 8/28/11 PER IDOT		CHICAGO AVENUE		2853	10-00250-00-LS	COOK	39	21
CHECKED - SN, PC	REVISED -			SCALE: 1" = 30'	SHEET NO. 21 OF 39 SHEETS	STA. 46+00	TO STA. 54+50	CONTRACT NO. 63593		
DATE - 1 / 27 / 2011	REVISED -			ILLINOIS FED. AID PROJECT						



- LEGEND**
- ⊕ DUAL ENTRY PHASE
 - ⊖ PROTECTED LEFT TURN PHASE
 - ⊕ OL OVERLAP
 - ⊖ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	9	INCAND.	17	0.50	76.50
(YELLOW)	9	—	25	0.25	56.25
(GREEN)	9	—	15	0.25	33.75
ARROW	—	—	12	0.10	—
PED. SIGNAL	4	—	25	1.00	100.00
CONTROLLER	1	—	100	1.00	100.00
ILLUM. SIGN	—	—	25	0.05	—
FLASHER	—	—	—	0.50	—
ENERGY COSTS TO:					TOTAL = 366.50

CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: (847) 818-5465
 COMPANY: COMED

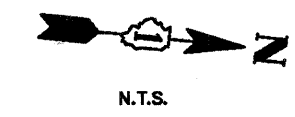
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	—	SIGNAL POST	2 (1.0)	(8m+L-0.6m)	—
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
—	—	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
—	—	—	—	POST MOUNTED	6 (1.8)

NOTE:
 PEDESTRIAN PHASES 2 AND 8 SHALL BE ON RECALL.

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 SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

WCE 1/14/2011



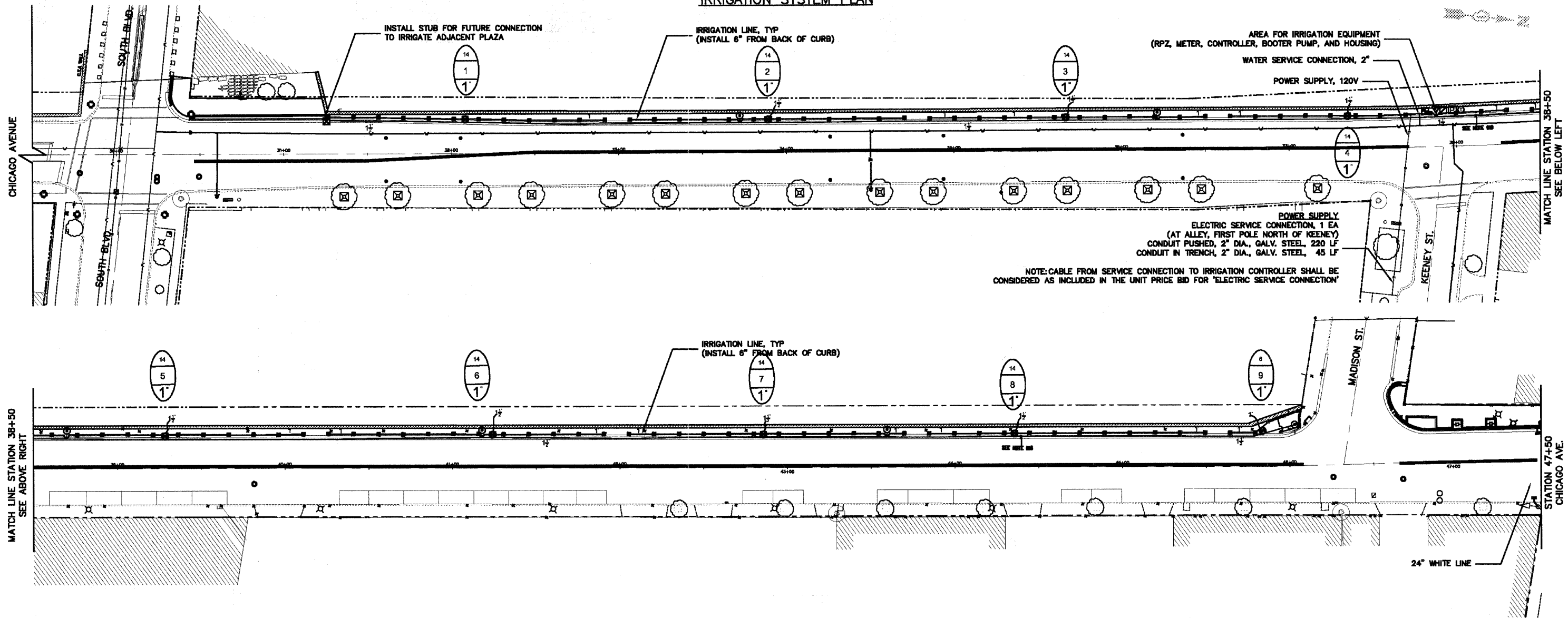
- CABLE PLAN LEGEND**
- | | |
|--|---|
| | 6" (200mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | CONTROLLER CABINET |
| | SERVICE INSTALLATION |
| | TELEPHONE INSTALLATION |
| | VEHICLE DETECTOR, INDUCTION LOOP |
| | MAGNETIC DETECTOR |
| | EMERGENCY VEHICLE LIGHT DETECTOR |
| | CONFIRMATION BEACON |
| | PUSHBUTTON DETECTOR |
| | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | GROUND CABLE IN CONDUIT NO. 8 SOLID COPPER (GREEN) |
| | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. |
| | RAILROAD CONTROL CABINET |
| | ILLUMINATED SIGN "NO LEFT TURN" |
| | ILLUMINATED SIGN "NO RIGHT TURN" |
| | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY
CONDUIT IN TRENCH, 1/2" DIA., GALVANIZED STEEL	FOOT	38
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	38
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	737
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	861
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR NO. 6 1C	FOOT	333
CONCRETE FOUNDATION, TYPE A	FOOT	12
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	3
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,949
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	906
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
CONDUIT SPLICE	EACH	2
HANDHOLE TO BE ADJUSTED	EACH	2
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	333

SUMMARY OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 CHICAGO AVENUE AT KEDZIE STREET

IRRIGATION SYSTEM PLAN

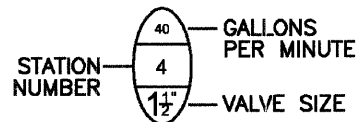


IRRIGATION LEGEND

- HUNTER, PROS-12-PRS30-CV SERIES, 12" POP UP W/ MPR NOZZLE (10') (OR APPROVED EQUAL)
- HUNTER, PROS-12-PRS30-CV SERIES, 12" POP UP W/ MPR NOZZLE (SST) (OR APPROVED EQUAL)
- ⊙ HUNTER, QCV, QUICK COUPLING VALVE, 1" (OR APPROVED EQUAL)
- ⊕ HUNTER, ICV-F-S SERIES, ELECTRIC VALVE, 1" (OR APPROVED EQUAL)
- ⊠ HUNTER, I-CORE-PLUS-MODULES-PL, AUTOMATIC CONTROLLER (OR APPROVED EQUAL)
- ⊡ HUNTER, SOLAR SYNC, AUTOMATIC RAIN SHUT OFF (OR APPROVED EQUAL)
- ⊞ IRRIGATION STUB FOR FUTURE
- ⊞ BOOSTER PUMP
- ⊞ TAP LOCATION, 1"
- △ FEBCO, 825Y SERIES, REDUCED PRESSURE BACKFLOW, 1" (OR APPROVED EQUAL)
- PVC MAINLINE, CLASS 200, BE, 18" BURY, SIZE 1.5"
- POLY LATERAL, 100 PSI, NSF, 12" BURY, SIZE AS SHOWN

LATERAL PIPE SIZE CHART FOR POLY

1".....	1 - 12 GPM
1.5".....	13 - 30 GPM



IRRIGATION SPECIFICATIONS

1. ALL WORK IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
2. ALL UNDERGROUND ELECTRICAL CONNECTIONS ARE TO BE MADE WITH 3-M (OR APPROVED EQUAL) WIRE CONNECTORS, DBY.
3. ALL AUTO CONTROL VALVES ARE TO BE INSTALLED IN NDS (OR APPROVED EQUAL) VALVE BOXES OF APPROPRIATE SIZE.
4. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED FOR DIRECT BURY.
5. ALL ROTORS AND SPRAY POP-UPS SHALL BE INSTALLED ON SWING PIPE.
6. ALL QCV SHALL BE INSTALLED ON 3-ELBOW PVC SWING JOINTS.
7. SYSTEM DESIGN BASED UPON 15 GPM @ 70 PSI.
8. ANY CHANGES IN AVAILABILITY OF SUPPLY SHOULD BE NOTED AND MODIFICATIONS TO THE DESIGN SHOULD BE MADE.
9. CONTRACTOR TO VERIFY WATER PRESSURE AND AVAILABILITY PRIOR TO INSTALLATION.
10. ANY IRRIGATION PIPING SHOWN OUTSIDE OF CURBS FOR CLARITY ONLY.
11. 120V. TO CONTROLLER AND COPPER STUB, BY OTHER THAN IRRIGATION CONTRACTOR.
12. THERE WILL BE NO SUBSTITUTIONS OR CHANGES TO THE IRRIGATION DESIGN ALLOWED WITHOUT DIRECT, WRITTEN APPROVAL FROM THE IRRIGATION CONSULTANT.

CHICAGO AVE STREETSCAPE EVANSTON EVANSTON, IL

Date: 03/17/11
 Revision Date: 08/25/11
 Project Number: 17778983
 SHEET: 1 OF 2
 Designed by: SK
 Approved by: CP



JOHN DEERE LANDSCAPES

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 FX: 248-588-7963
 www.JohnDeereLandscapes.com
 jparko@johndeerelandscapes.com

PLANS PREPARED BY: CITY OF EVANSTON PUBLIC WORKS DEPARTMENT DIVISION OF TRANSPORTATION PHONE: (647) 698-2940

DESIGNED — DSM	REVISED — 7/1/11 PER IDOT
DRAWN — DSM	REVISED — 8/26/11 PER IDOT
CHECKED — SN, PC	REVISED —
DATE — 1 / 27 / 2011	REVISED —

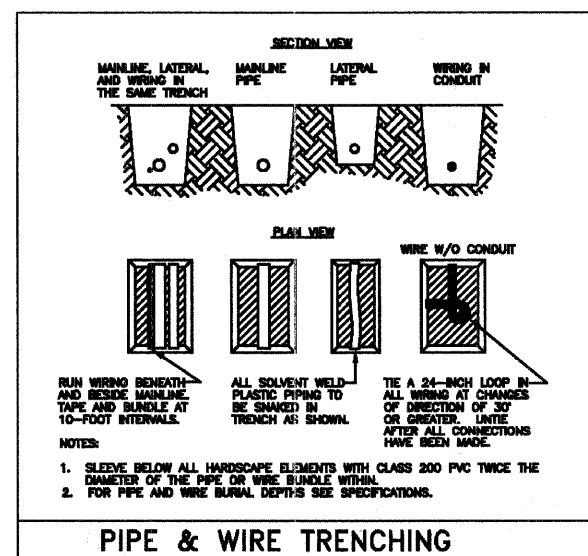
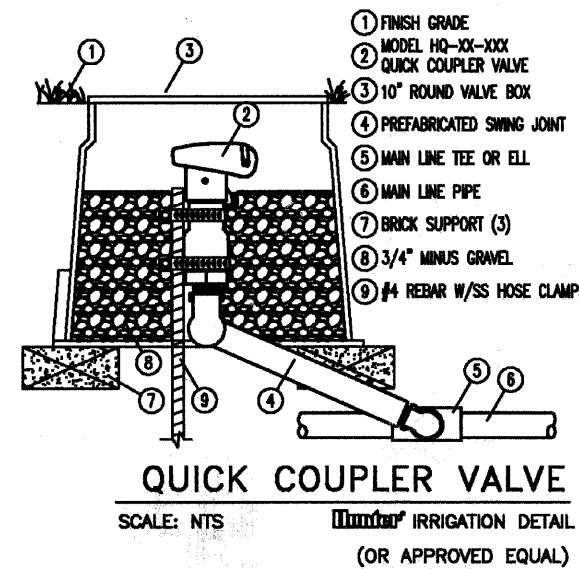
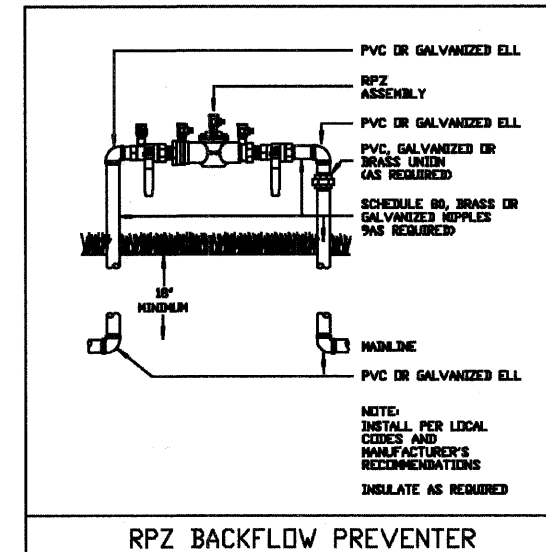
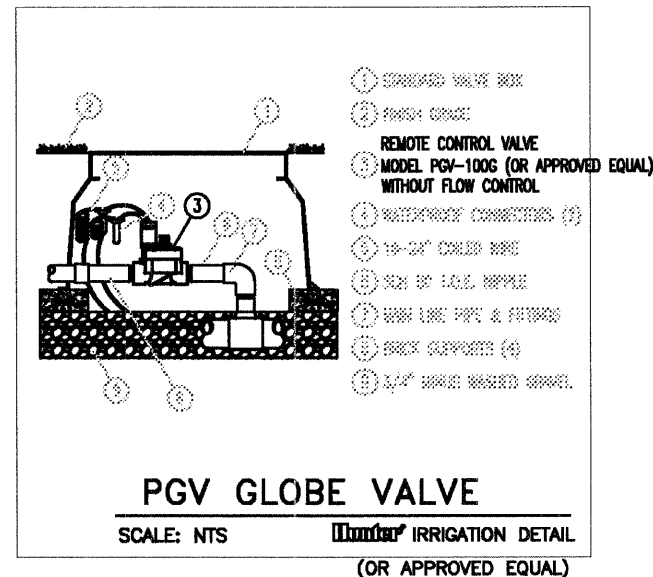
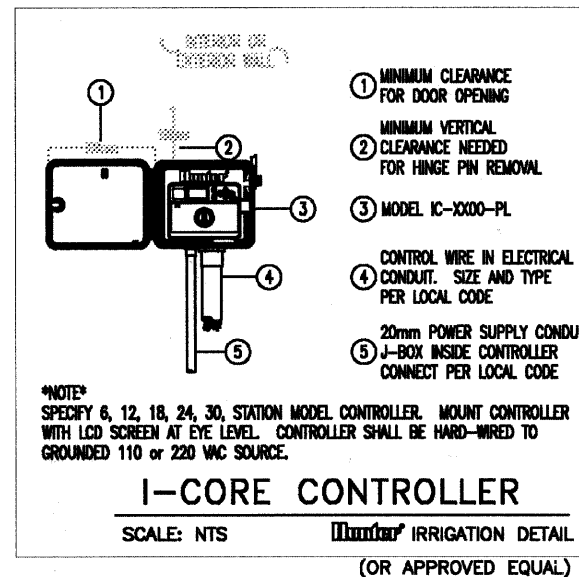
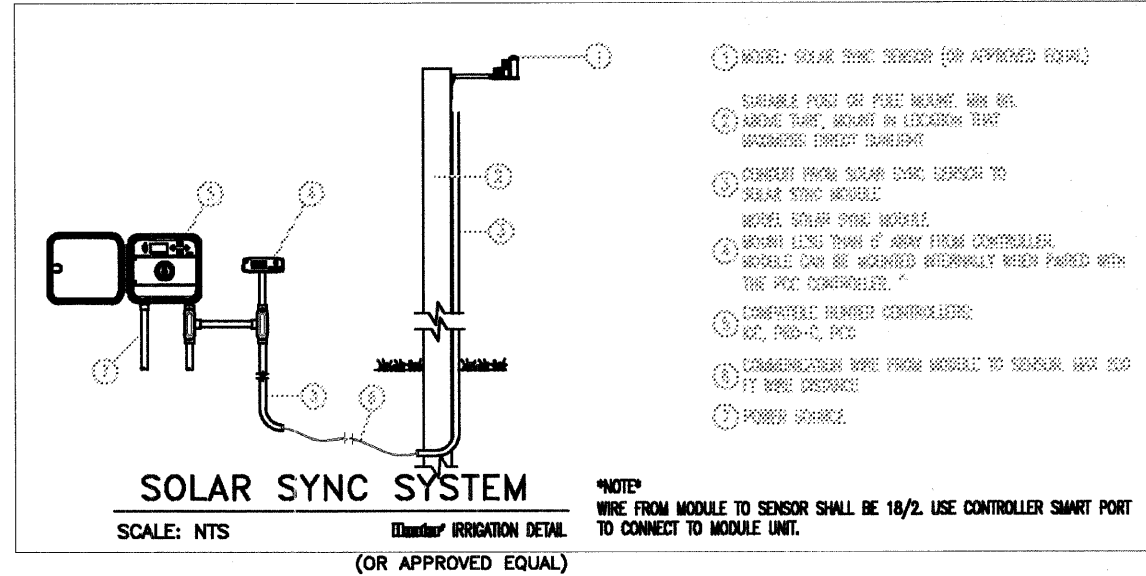
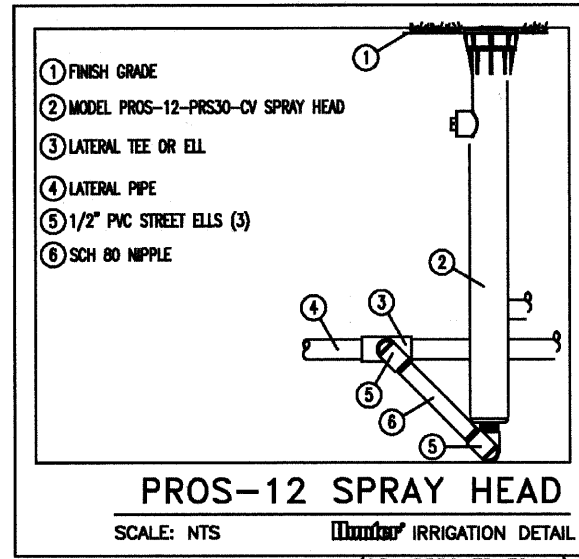
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

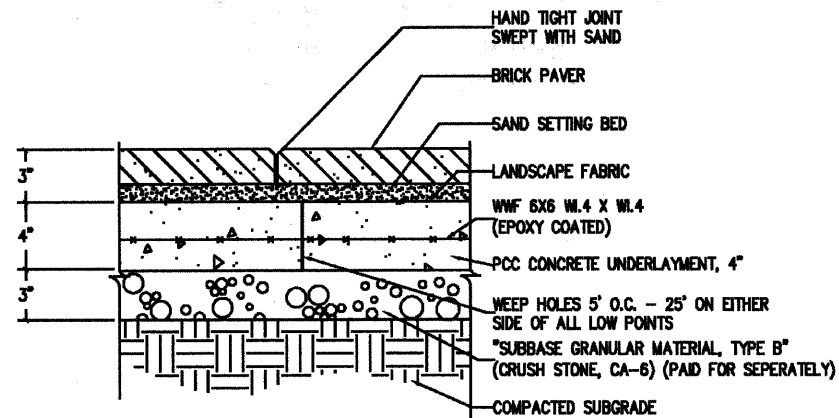
IRRIGATION SYSTEM PLAN
 CHICAGO AVENUE

SCALE: 1" = 20' SHEET NO. 23 OF 39 SHEETS STA. 29+50 TO STA. 47+50

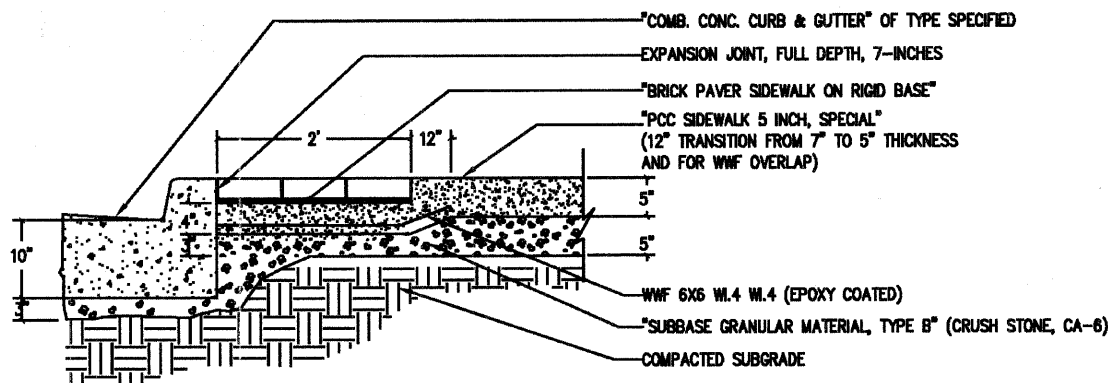
F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-LS	COOK	39	23
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	

IRRIGATION SYSTEM PLAN

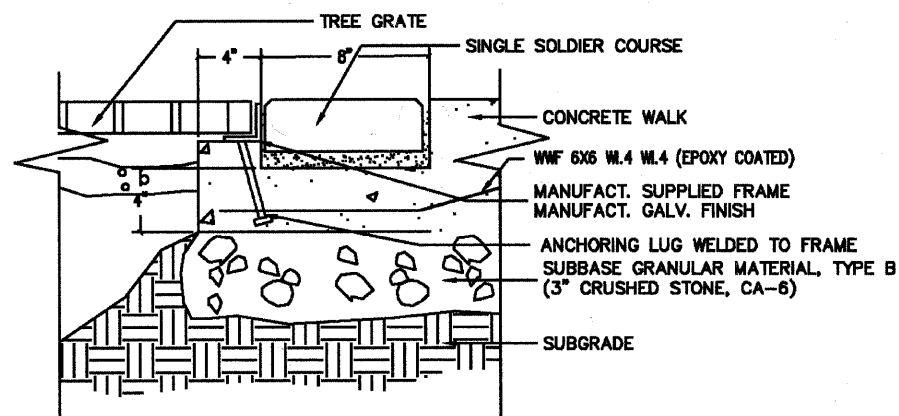




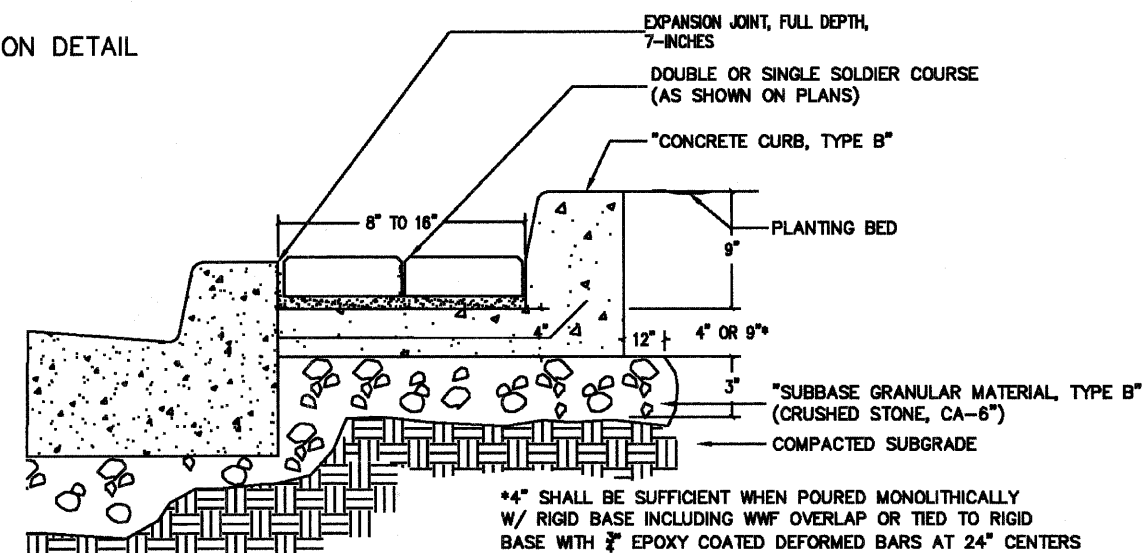
"BRICK PAVER SIDEWALK ON RIGID BASE" DETAIL



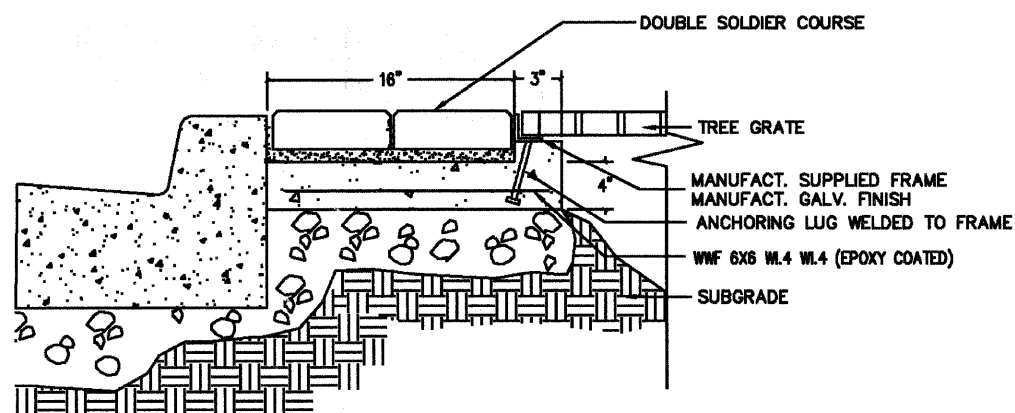
CURB / PAVER SIDEWALK / PCC SIDEWALK TRANSITION DETAIL



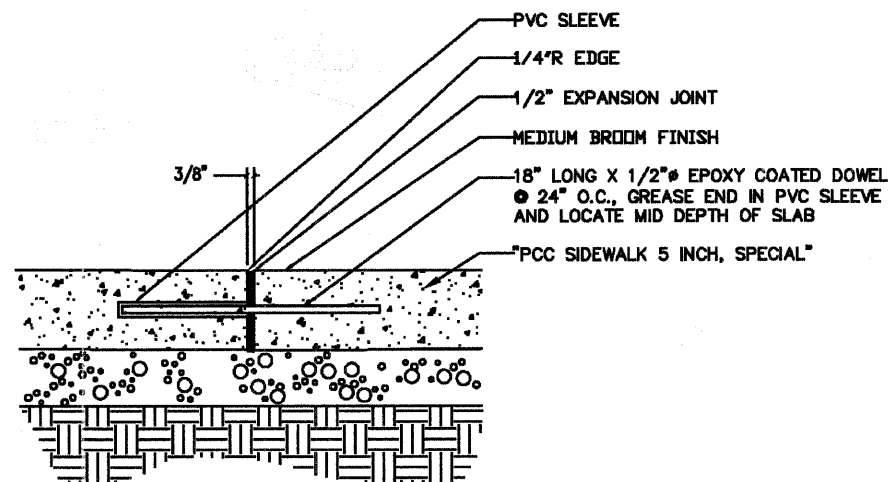
"TREE FRAME AND GRATE" BACK-SIDE ANCHOR DETAIL



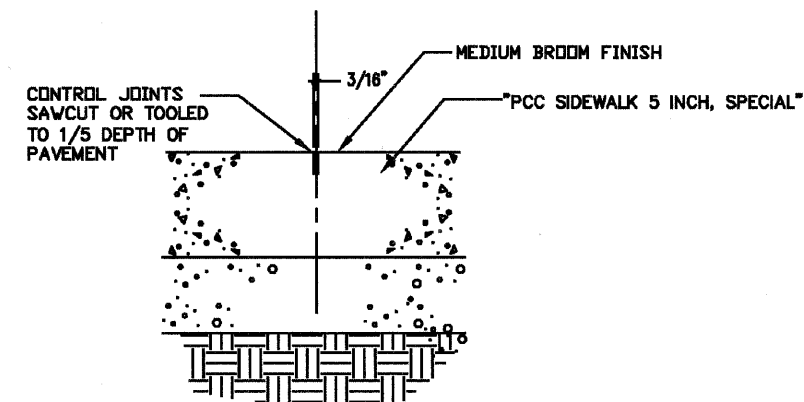
CURB / PAVER SIDEWALK / PLANTER CURB TRANSITION



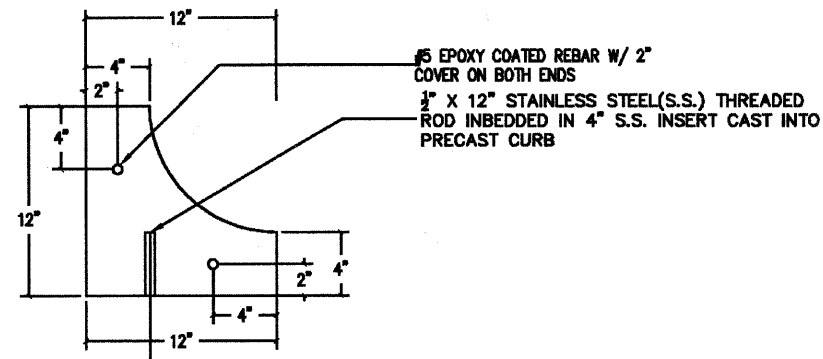
"TREE FRAME AND GRATE" CURB SIDE ANCHOR DETAIL



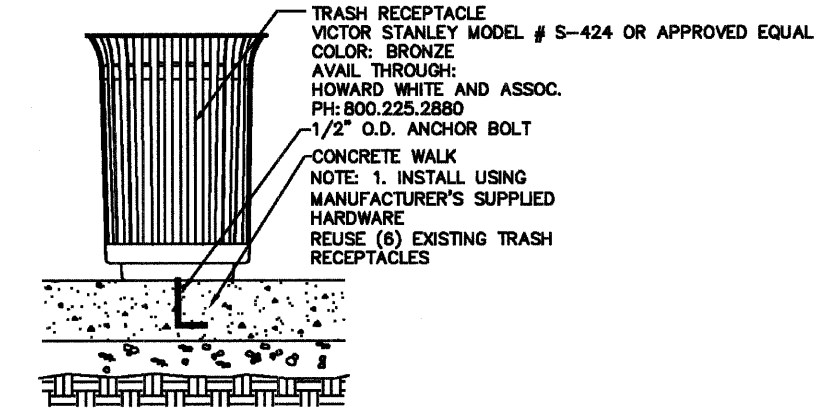
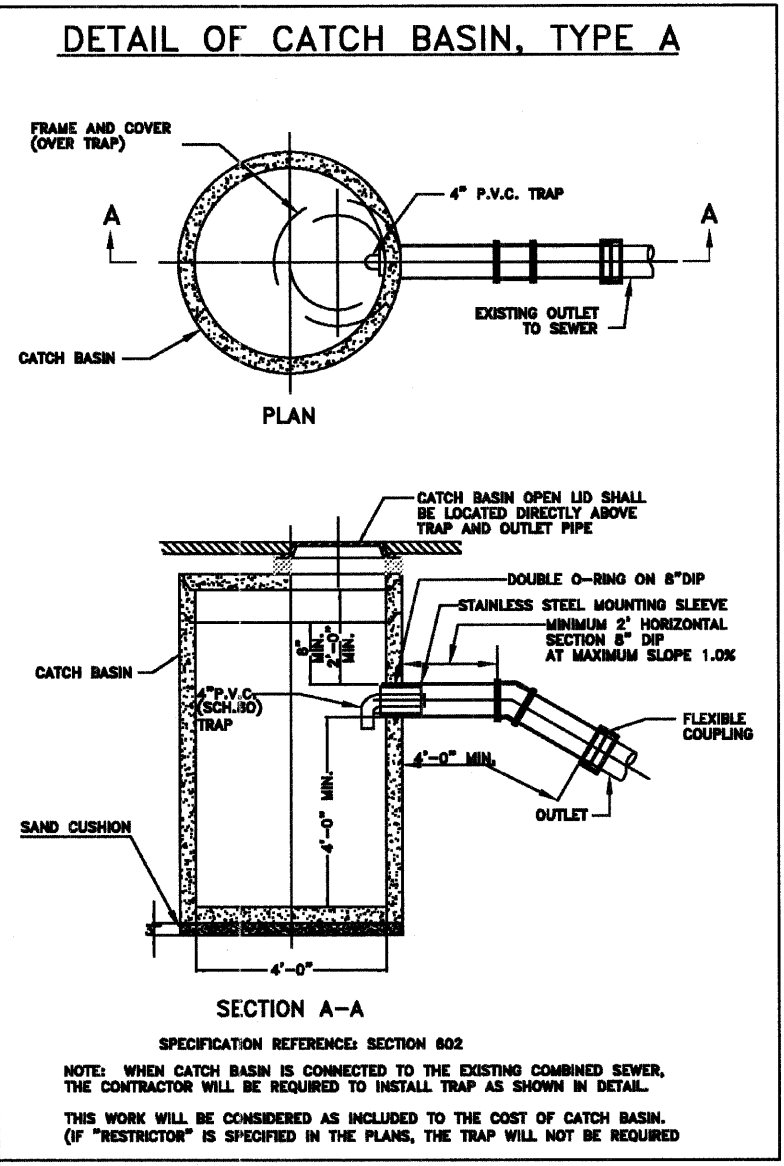
EXPANSION / CONSTRUCTION JOINT DETAIL FOR "PCC SIDEWALK 5 INCH, SPECIAL"



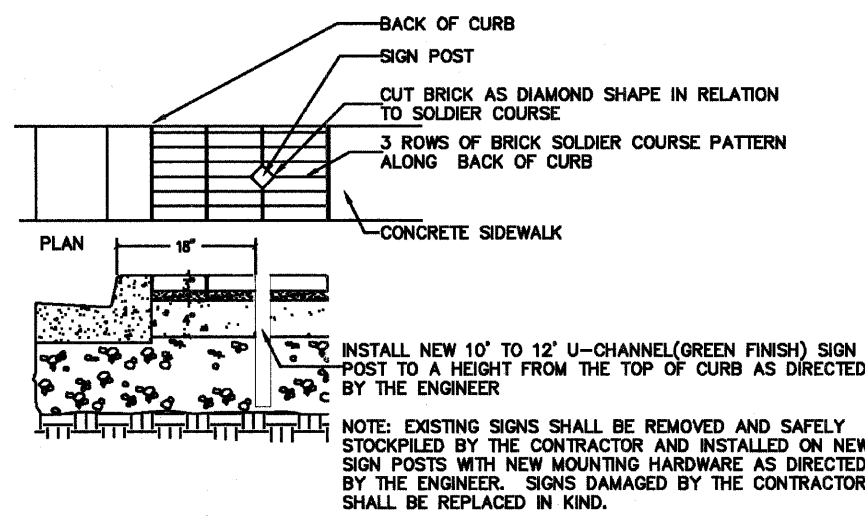
CONTROL JOINT DETAIL FOR "PCC SIDEWALK 5 INCH, SPECIAL"



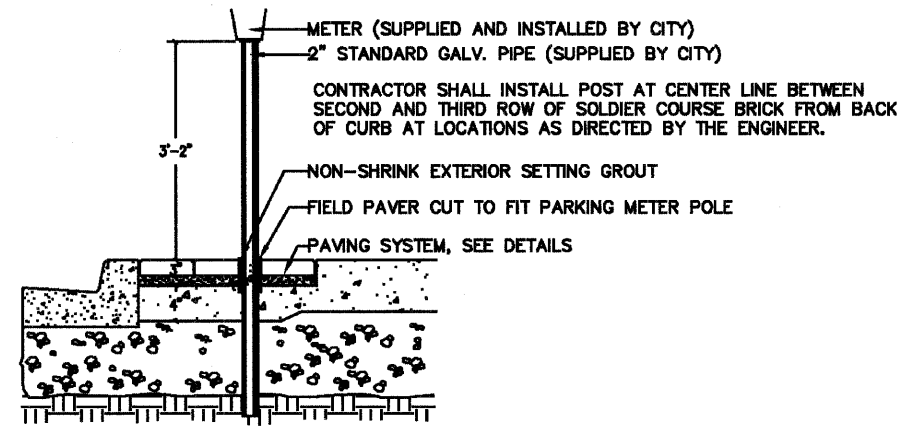
"PRECAST CONCRETE CURB"
 PIECES SHALL BE CAST IN SECTIONS NO LONGER THAN 6- FEET AND SHALL INCLUDE TWO ANCHORS PER SECTION



"TRASH RECEPTACLE" DETAIL



"REMOVING AND RESETTNG STREET SIGNS" DETAIL



"PARKING METER POSTS TO BE MOVED" DETAIL

PLANS PREPARED BY: CITY OF EVANSTON
 PUBLIC WORKS DEPARTMENT TRANSPORTATION AND ENGINEERING DIVISION
 PHONE: (847) 698-2924

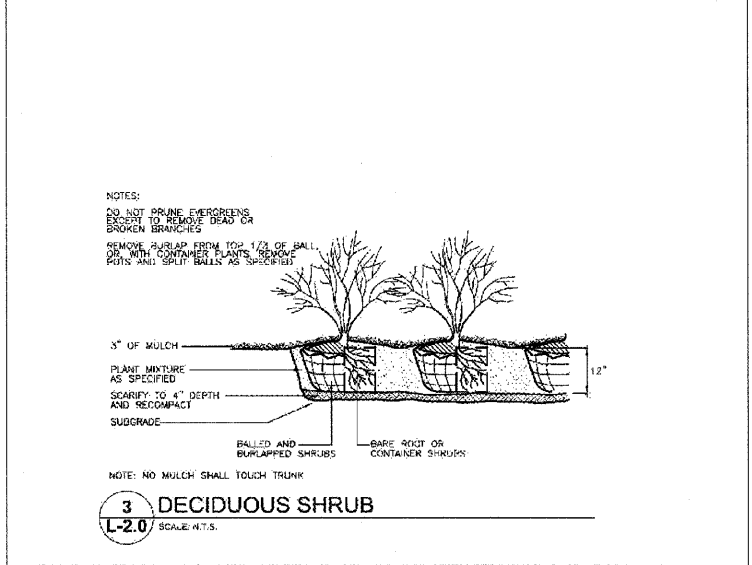
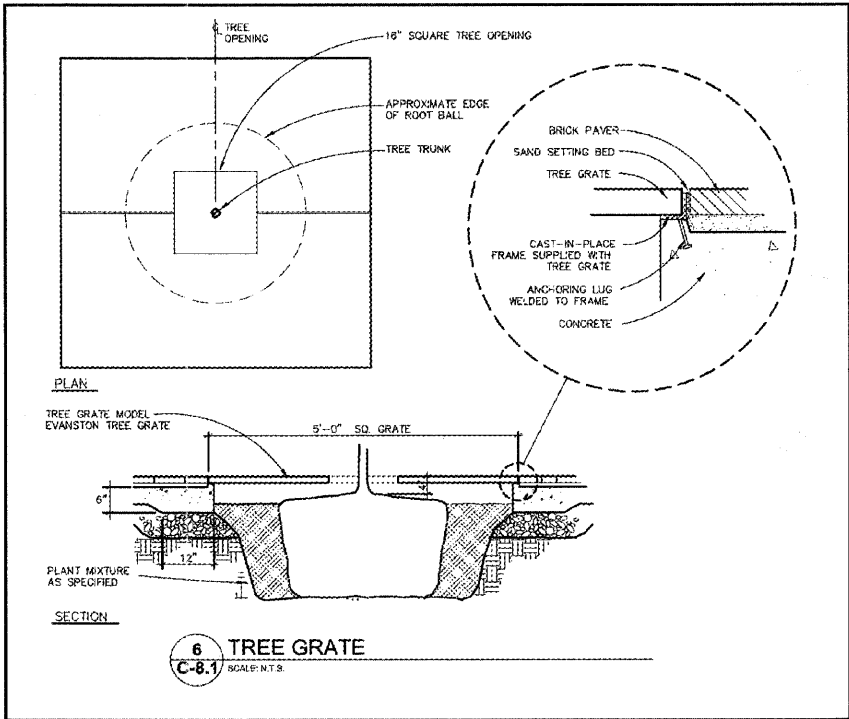
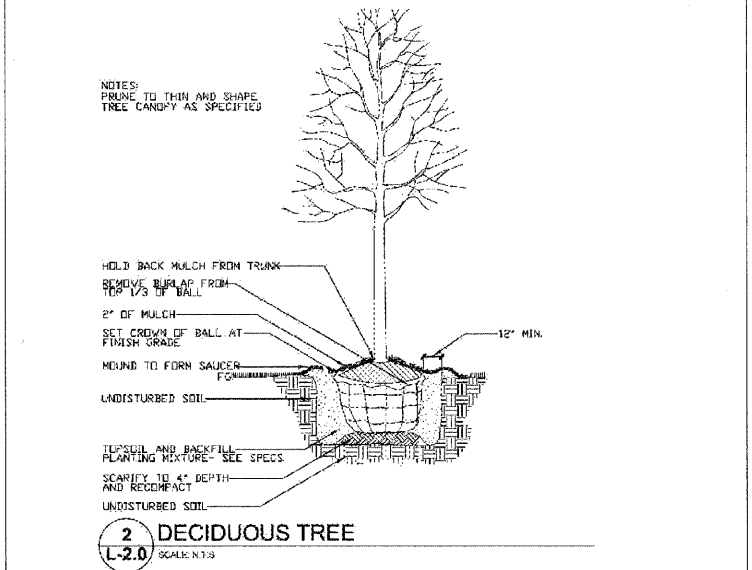
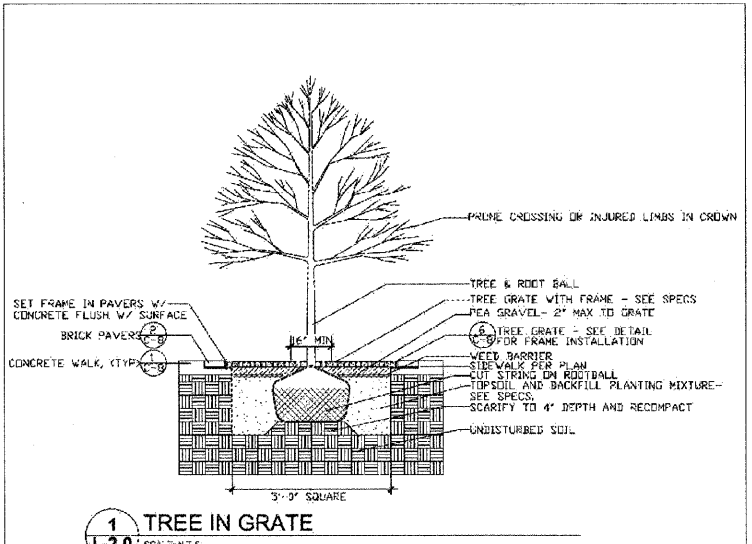
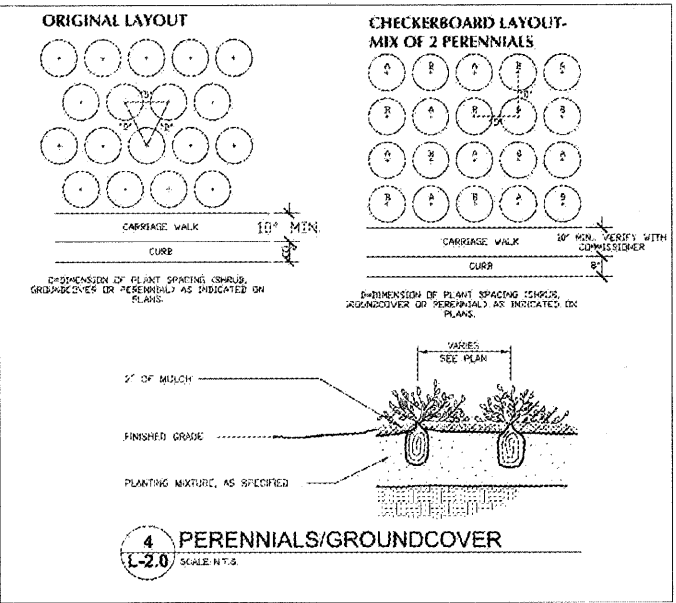
DESIGNED - DSM	REVISED - 7/1/11 PER IDOT
DRAWN - DSM	REVISED - 8/28/11 PER IDOT
CHECKED - SN, PC	REVISED -
DATE - 1 / 27 / 2011	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
 CHICAGO AVENUE

SCALE: N.T.S. SHEET NO. 25 OF 38 SHEETS STA. N.A. TO STA. N.A.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	28
CONTRACT NO. 63593			ILLINOIS FED. AID PROJECT	



PLANS PREPARED BY: CITY OF EVANSTON
PUBLIC WORKS DEPARTMENT TRANSPORTATION
AND ENGINEERING DIVISION
PHONE: (847) 866-2324

DESIGNED - DSM	REVISED - 7/1/11 PER IDOT
DRAWN - DSM	REVISED - 8/28/11 PER IDOT
CHECKED - SN, PC	REVISED -
DATE - 1 / 27 / 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

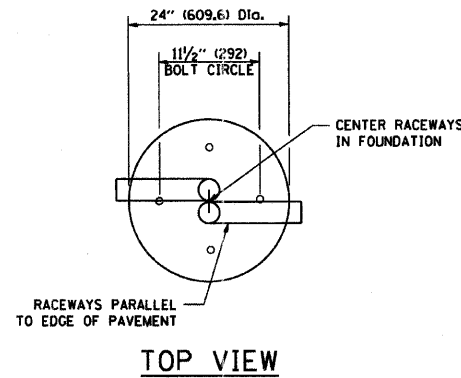
CONSTRUCTION DETAILS
CHICAGO AVENUE
SCALE: N.T.S. SHEET NO. 27 OF 39 SHEETS STA. N.A. TO STA. N.A.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00250-00-LS	COOK	39	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63583	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-1	COOK	39	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

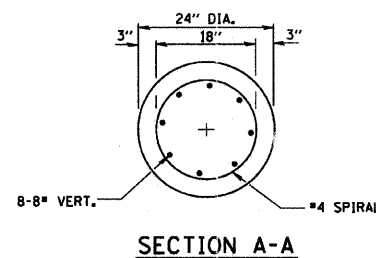
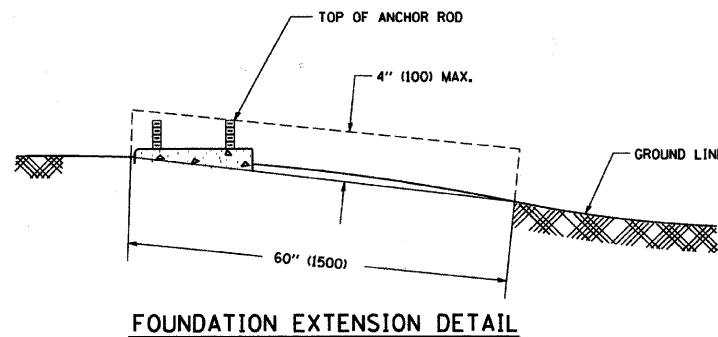
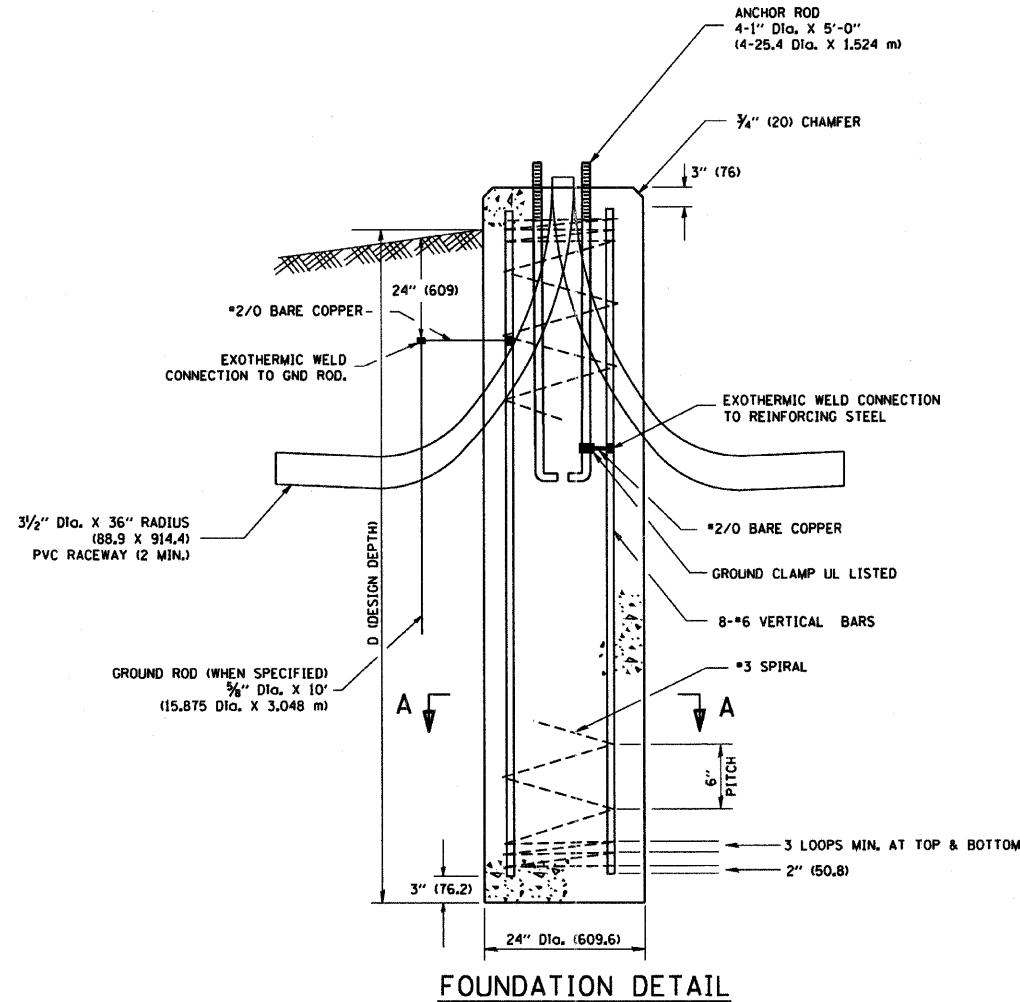
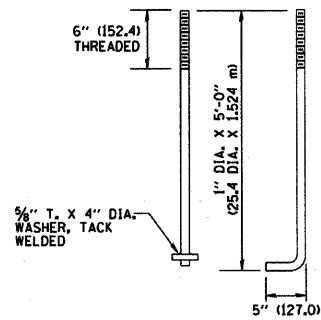
LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY O _u = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY O _u = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



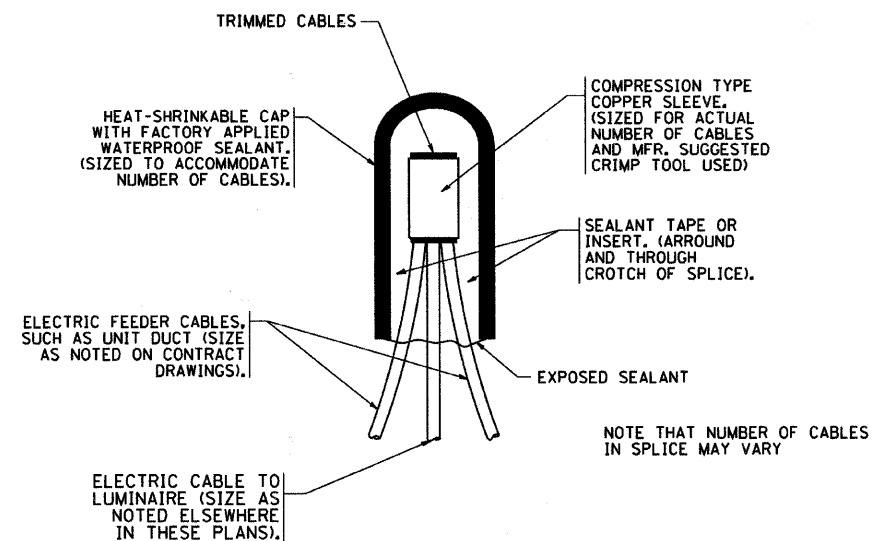
REVISIONS	
NAME	DATE
D. SIMON	4/93
D. DREW	06/15/95
	12/18/02

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m) M.H.
1 1/2" (292 mm) BOLT CIRCLE

SCALE: NONE

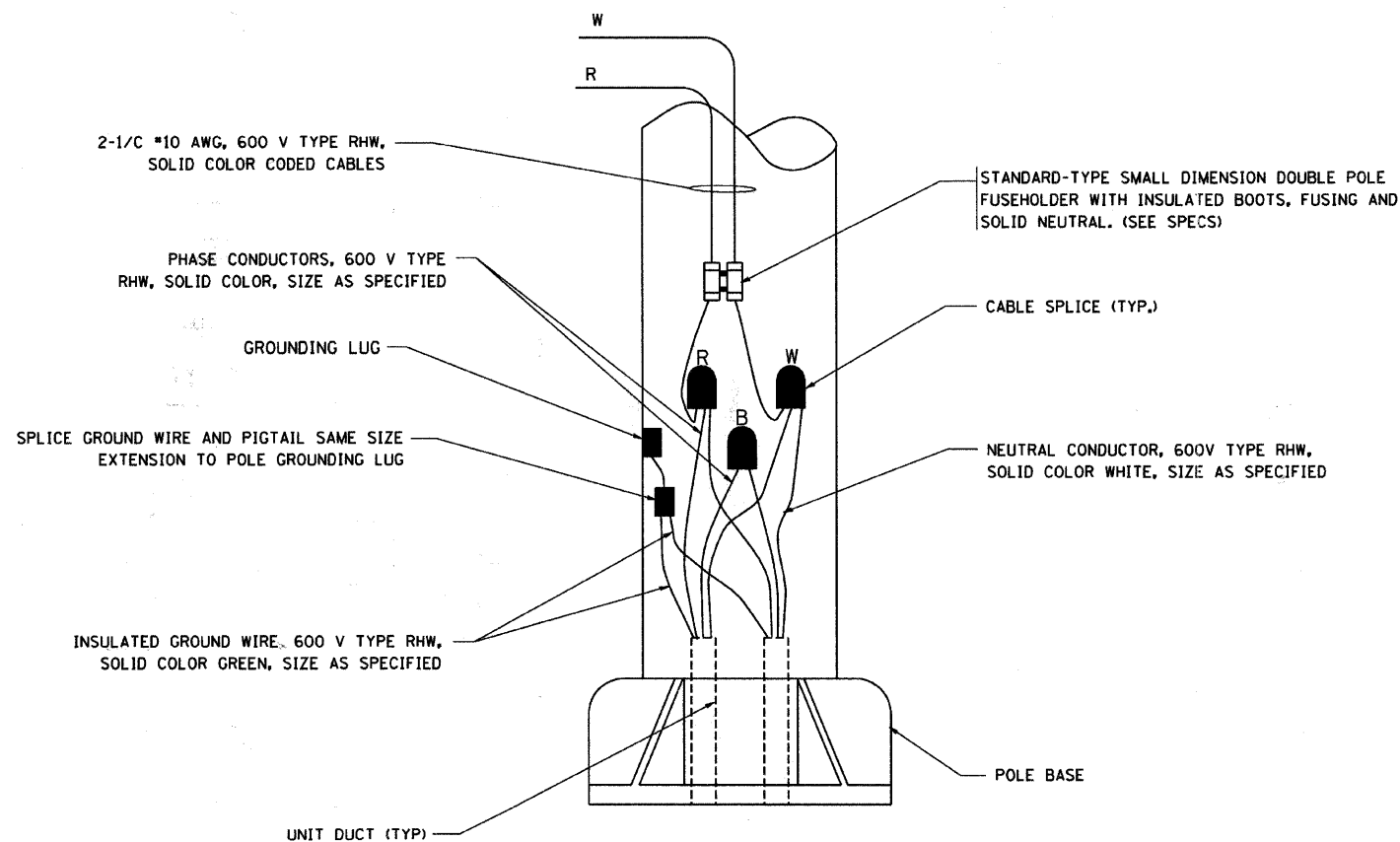
DRAWN BY
CHECKED BY
E-300 (BE-300)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-1S	COOK	39	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



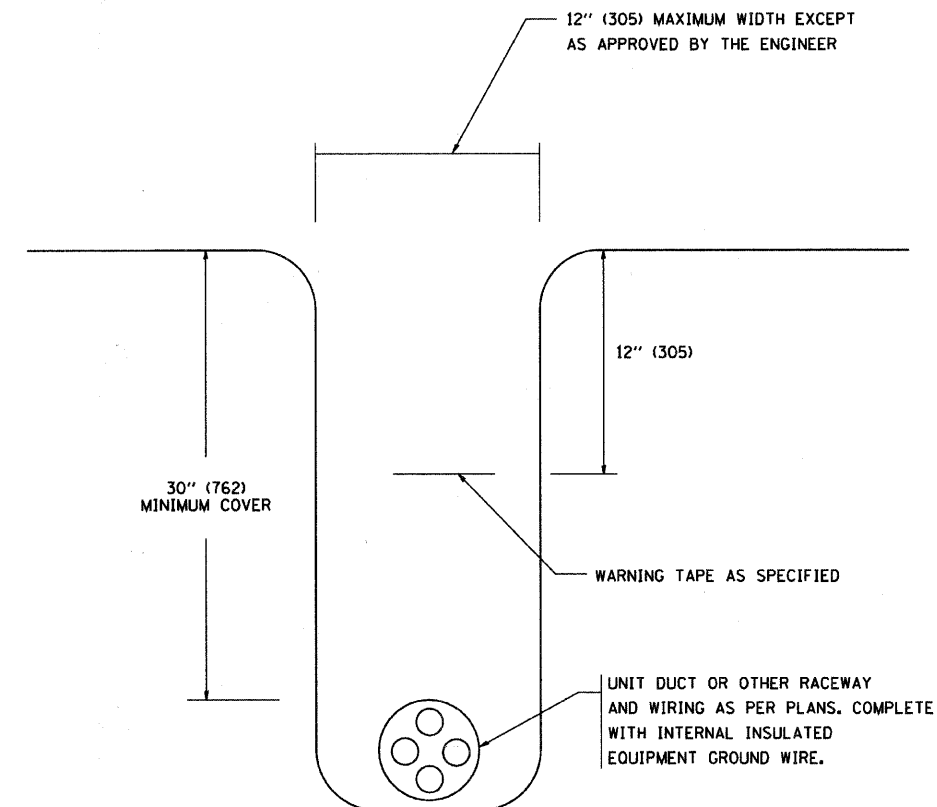
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

PLOT DATE = 2/27/2007
 FILE NAME = 2/27/2007
 PLOT SCALE = 80.000 / IN.
 USER NAME = bauer-d

REVISIONS	
NAME	DATE

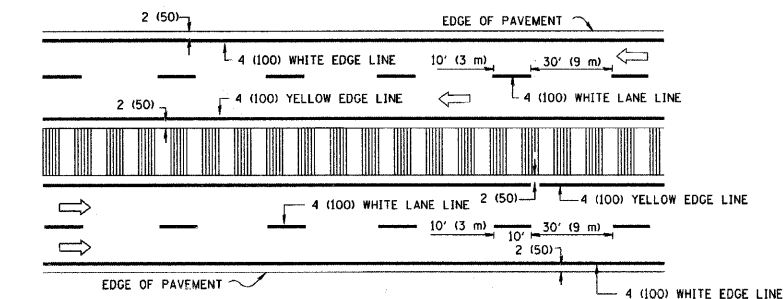
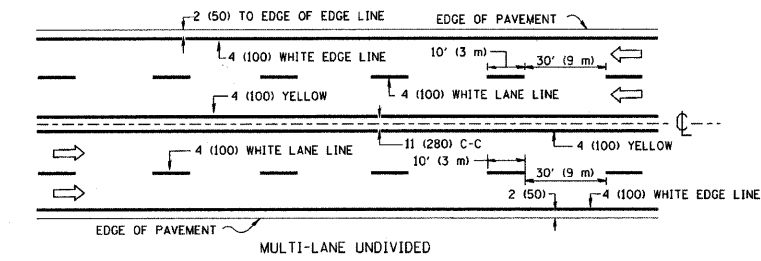
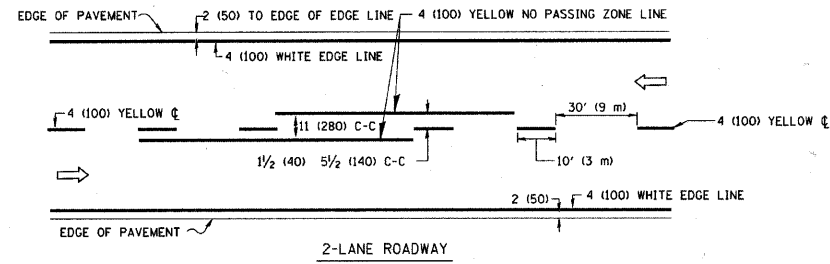
ILLINOIS DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
 SHEET A

SCALE: VERT.
 HORIZ.
 DATE: 2/27/2007

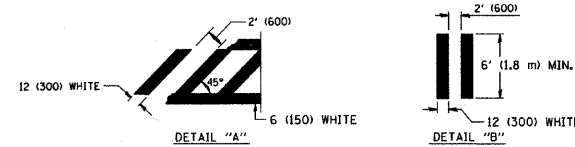
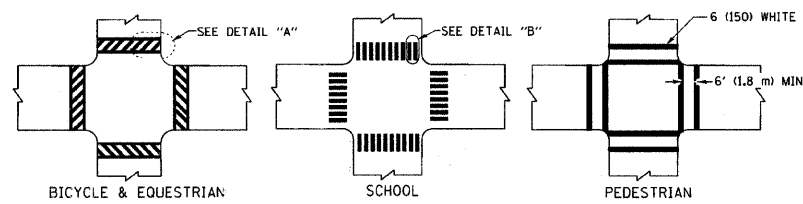
DRAWN BY
 CHECKED BY
 BE-702
 REVISION DATE: 01/01/07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-LS	COOK	39	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

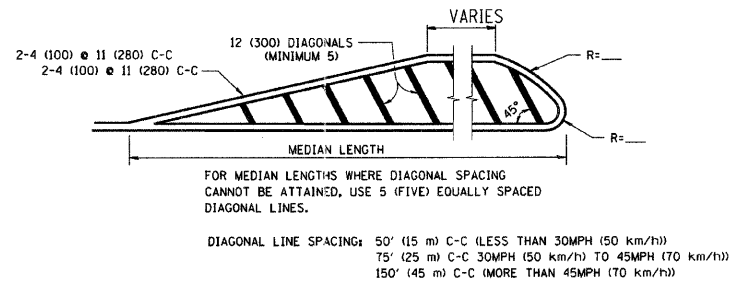
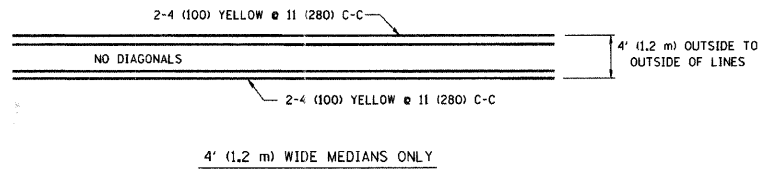


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

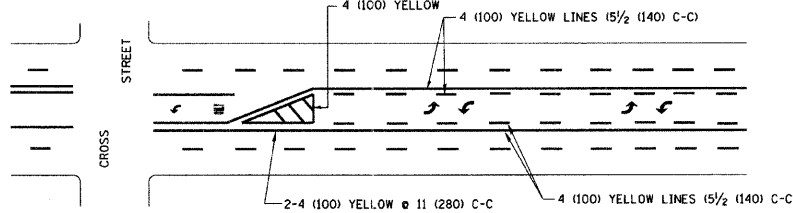
TYPICAL LANE AND EDGE LINE MARKING



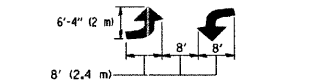
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE

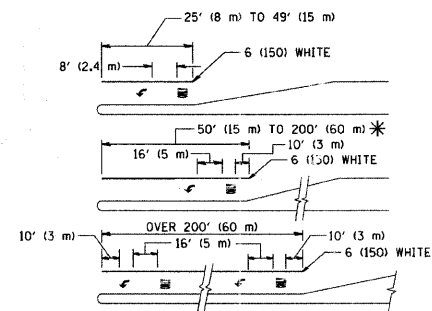


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

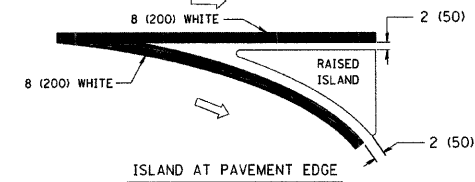
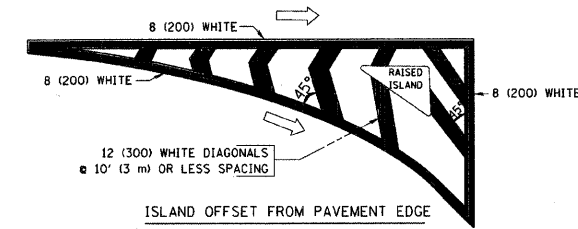


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) (ONLY) AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
C. JUCLIS	09-09-09

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT
MARKINGS

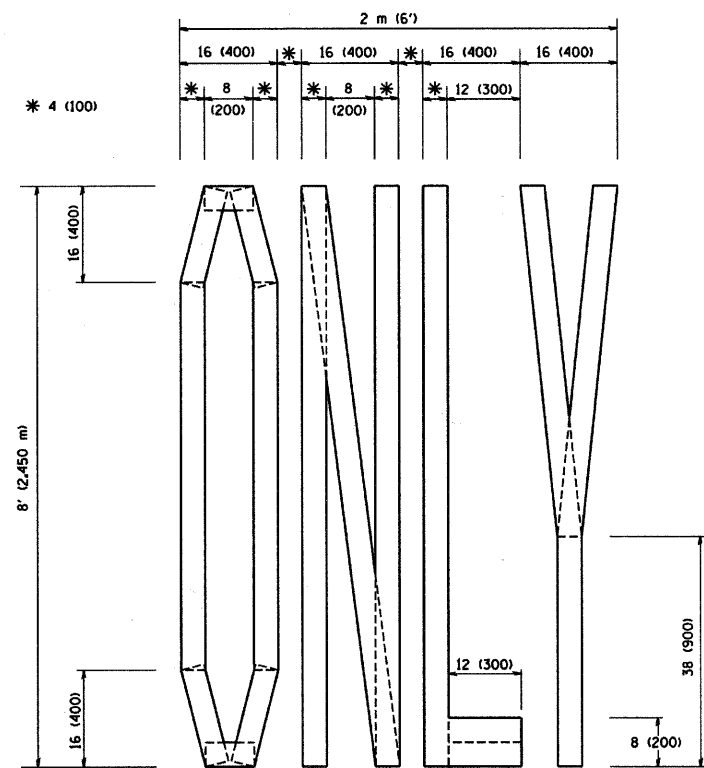
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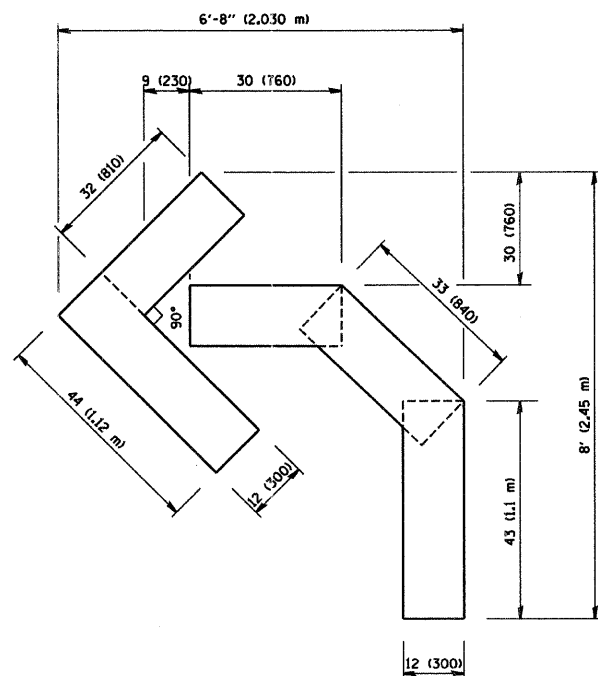
CHECKED BY

TC-13

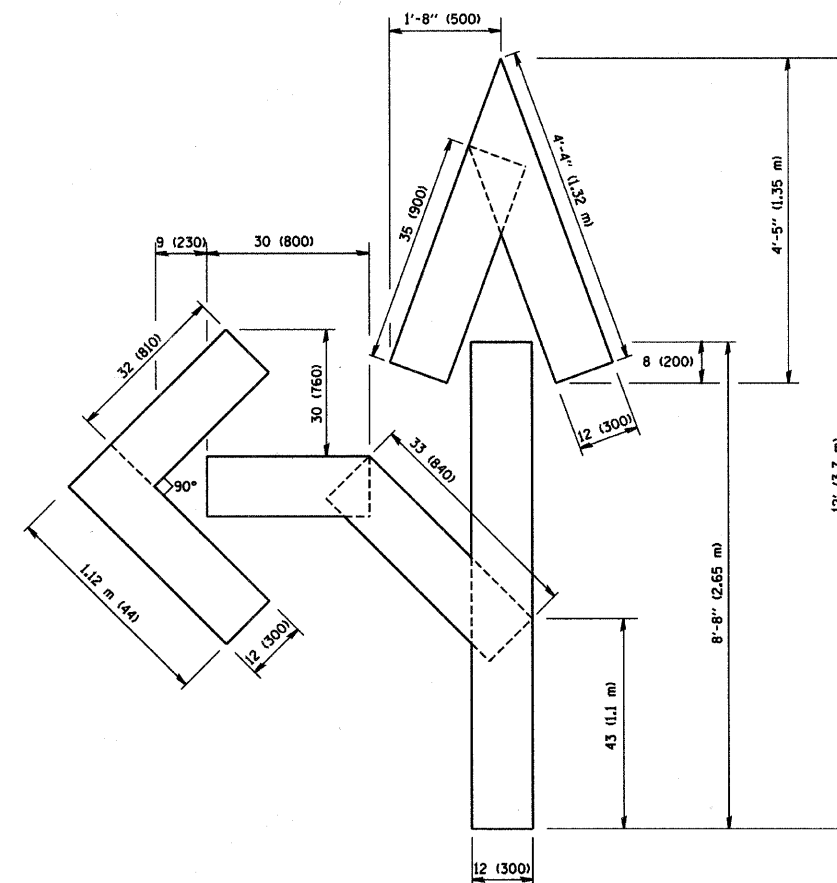
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-15	COOK	39	32
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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



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



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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
LETTERS AND SYMBOLS
FOR TRAFFIC STAGING

SCALE: NONE

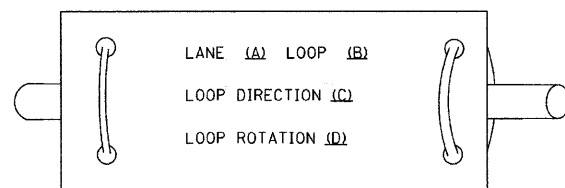
DRAWN BY CADD
CHECKED BY
TC-16

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-1B	COOK	39	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

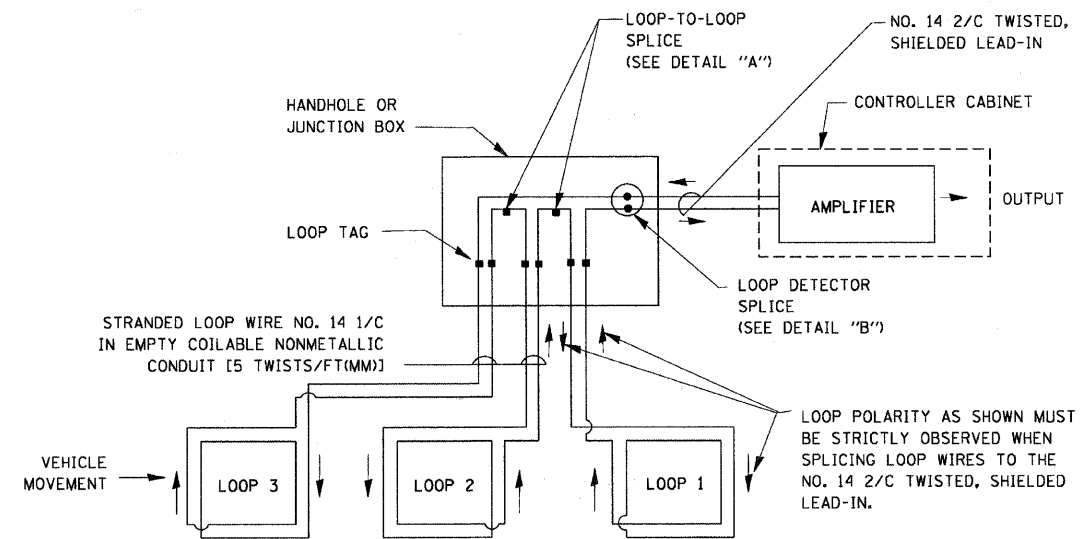
LOOP DETECTOR NOTES

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES 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.
- 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.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

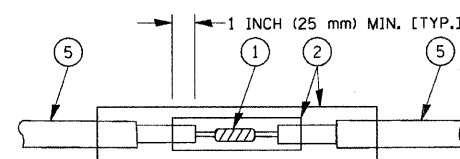


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

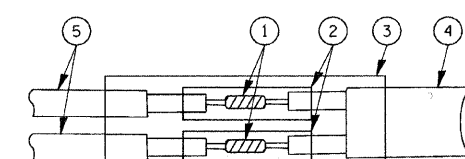


DETECTOR LOOP WIRING SCHEMATIC

- 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.

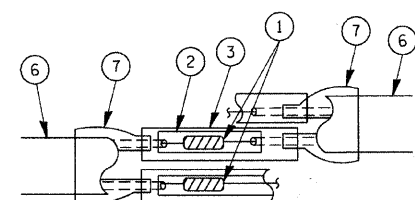


DETAIL "A" LOOP-TO-LOOP SPLICE

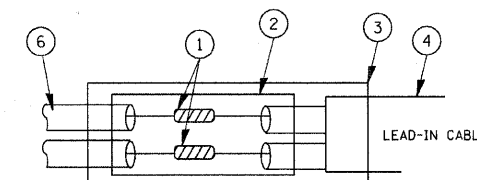


DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02
BCK	10/28/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS**

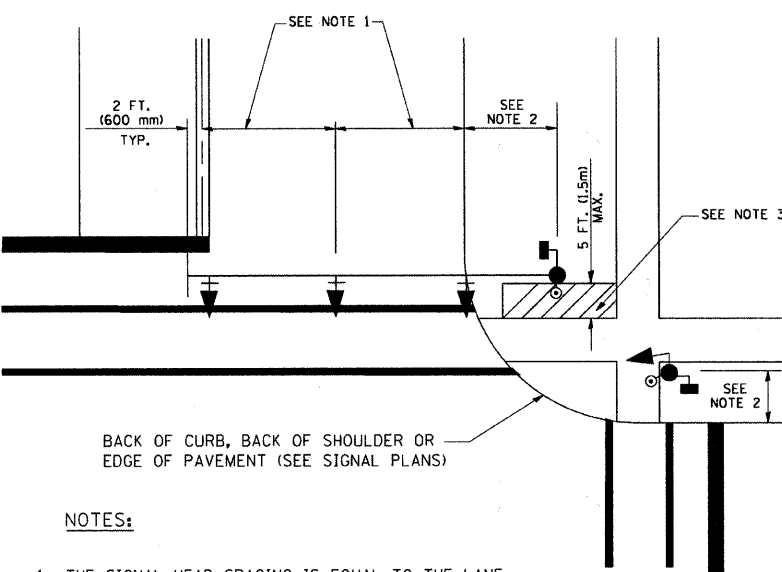
SCALE: NONE

DRAWN BY: BCK
 DESIGNED BY: DAD
 CHECKED BY: DAD
 SHEET 1 OF 6

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-15	COOK	39	35
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

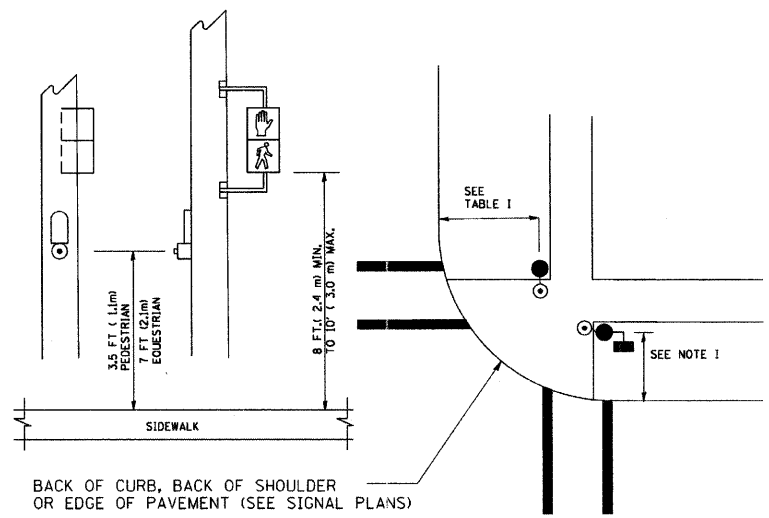
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

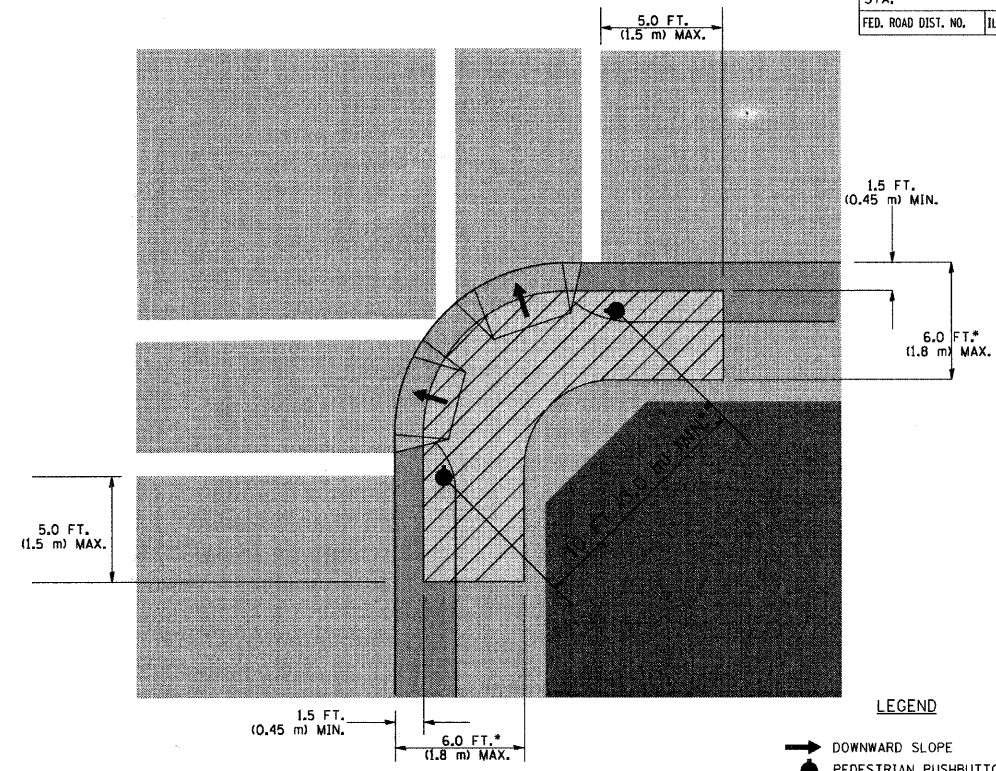
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02
BCK	10/28/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE
 DRAWN BY: BCK
 DESIGNED BY: DAD
 CHECKED BY: DAD
 SHEET 2 OF 6

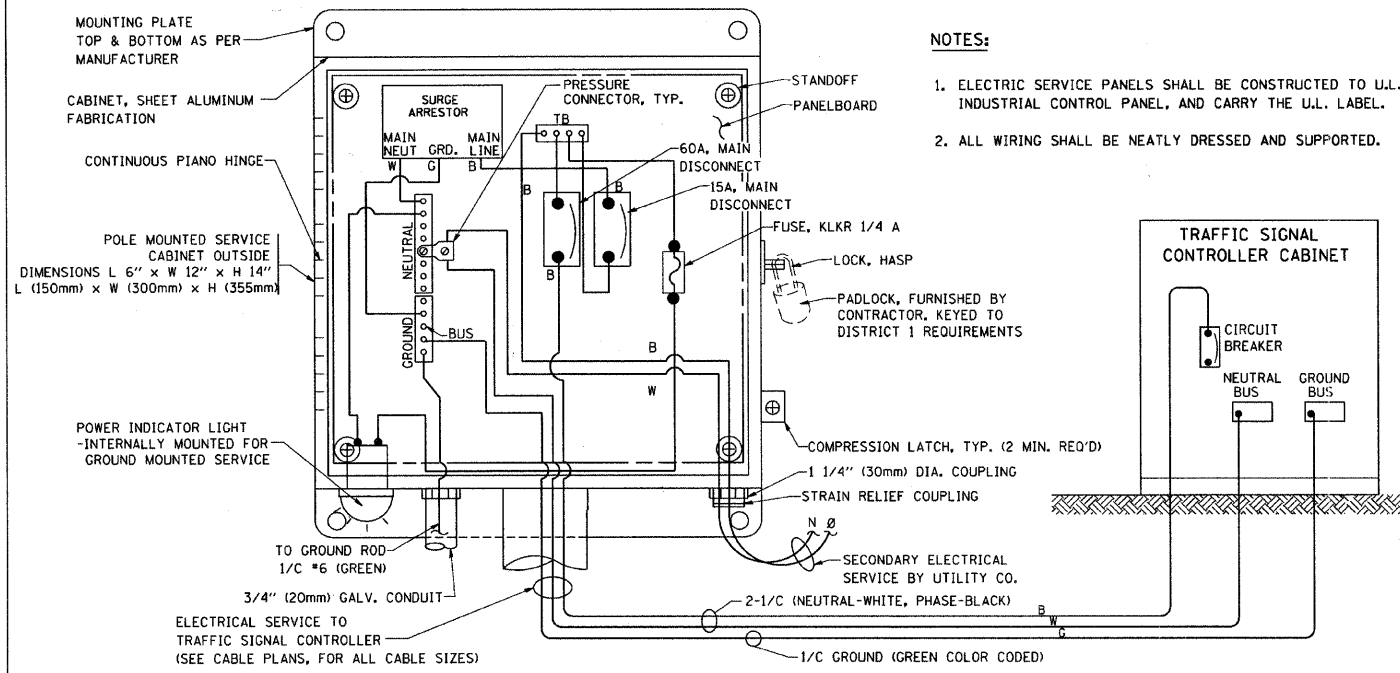
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

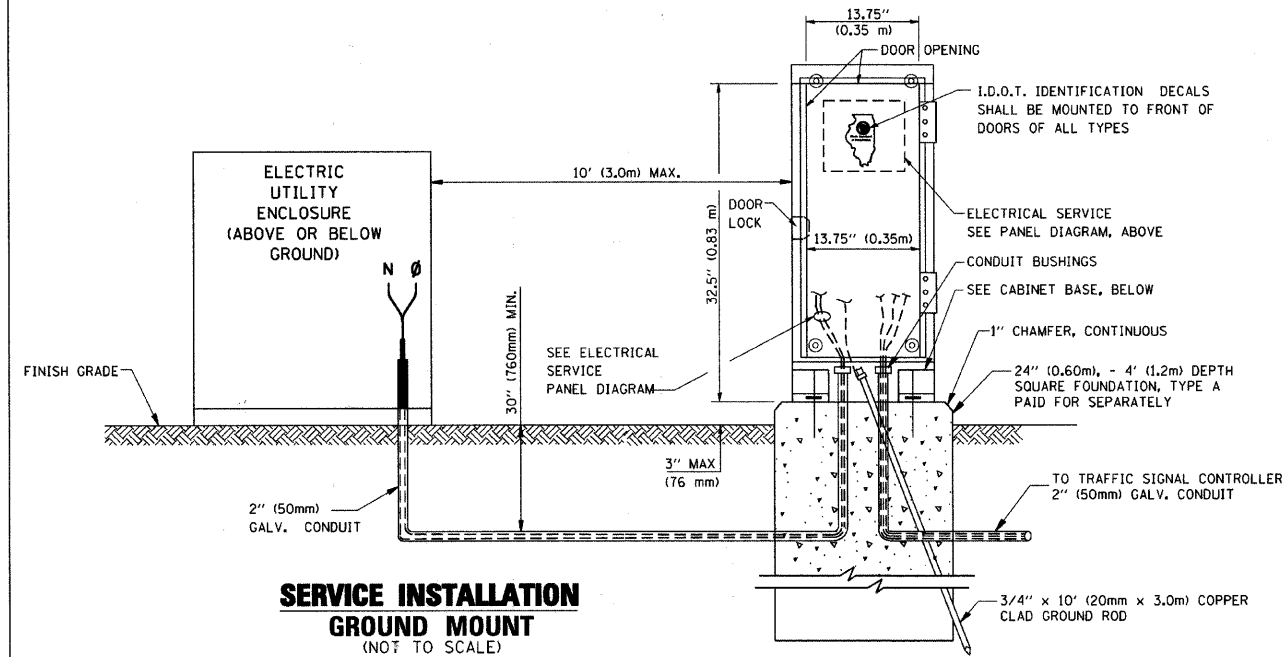
NOTES:

GROUNDING SYSTEM

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

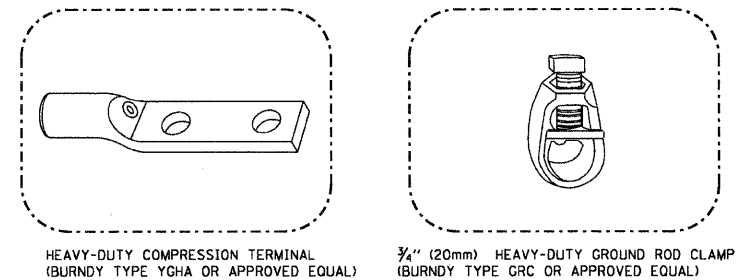
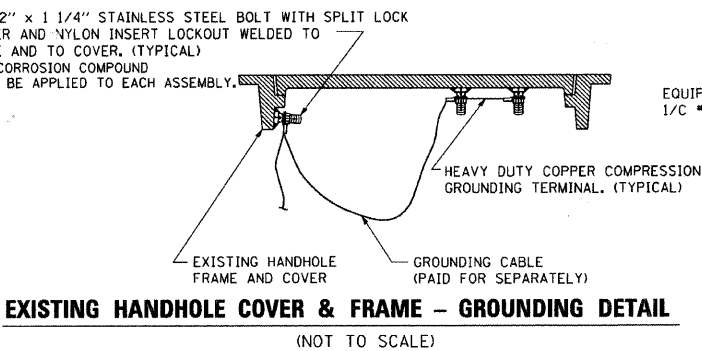
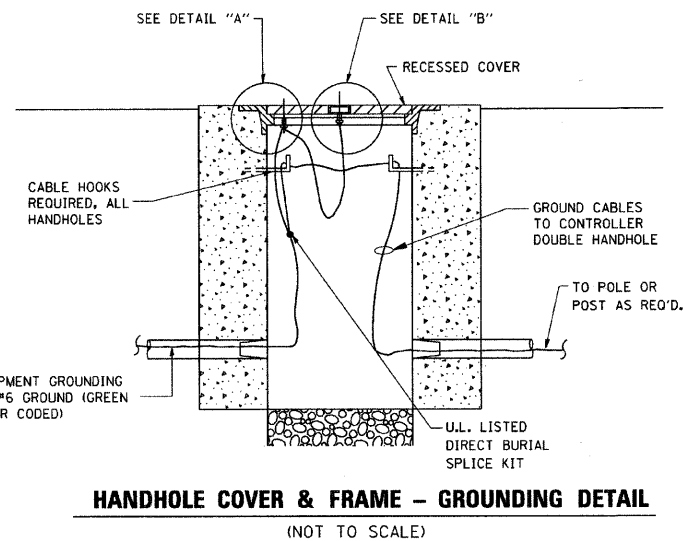
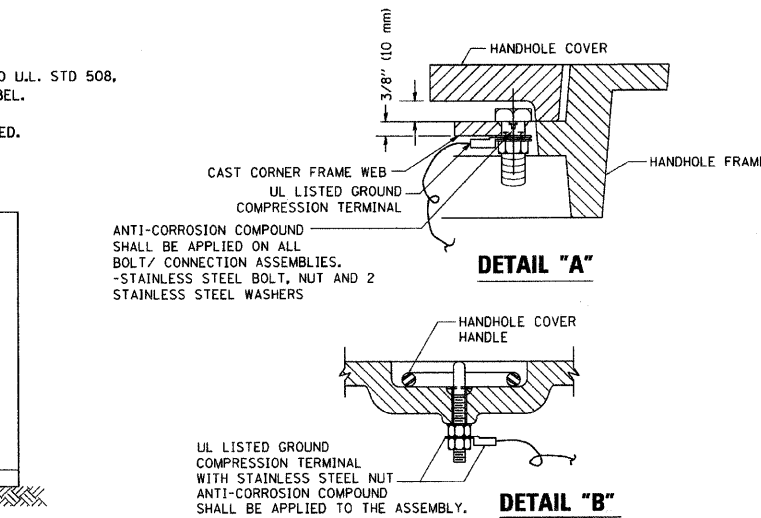
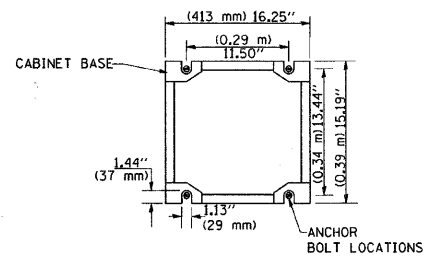


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



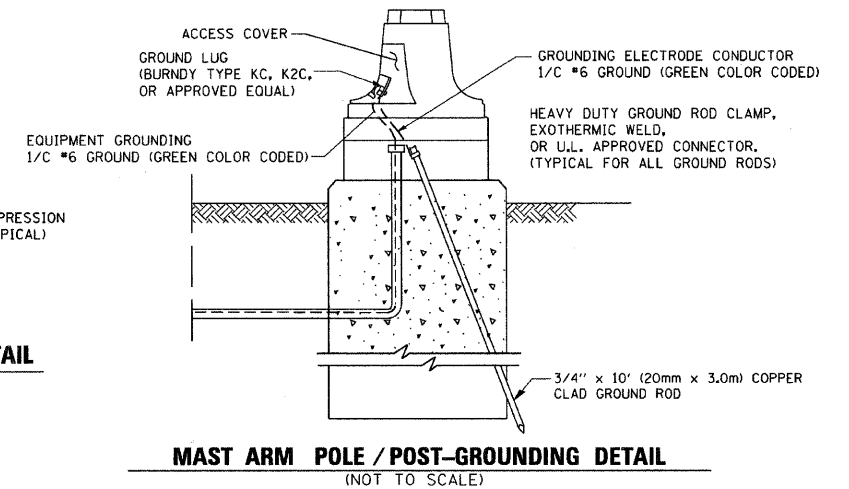
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



NOTES:

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



REVISIONS	
NAME	DATE
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02
BCK	10/28/09

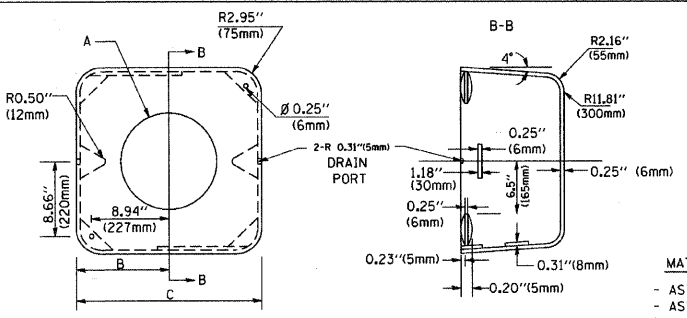
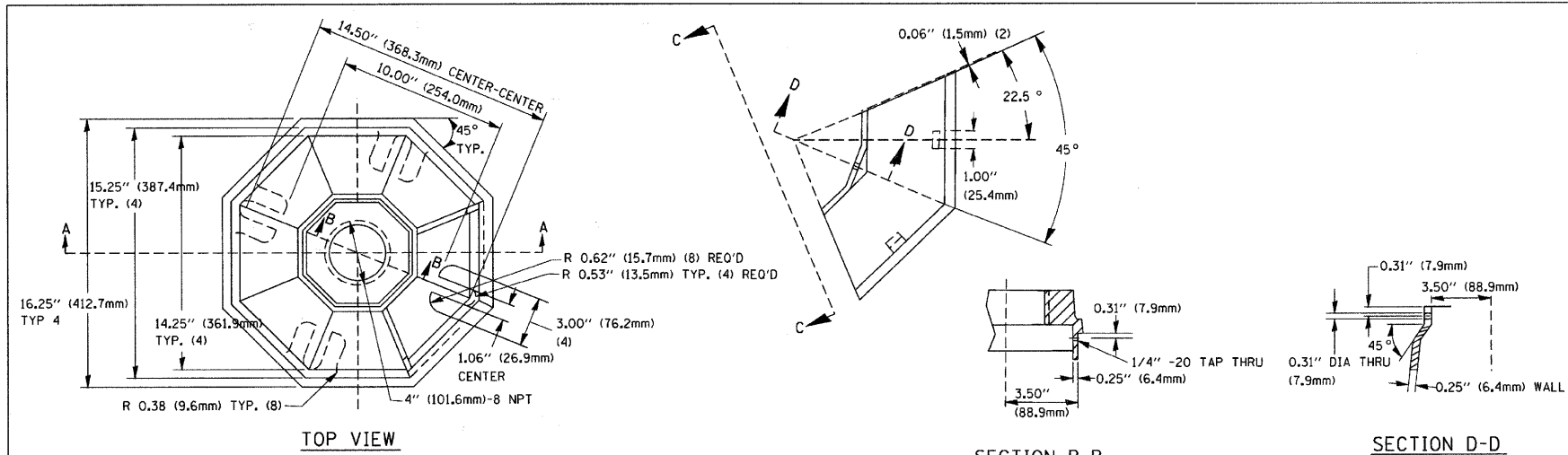
ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

SCALE: NONE

DRAWN BY: BCK
 DESIGNED BY: DAD
 CHECKED BY: DAD
 SHEET 3 OF 6

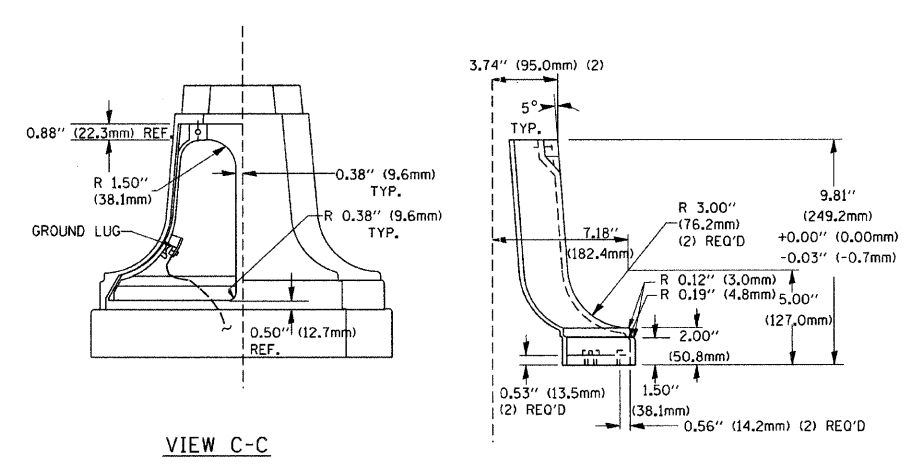
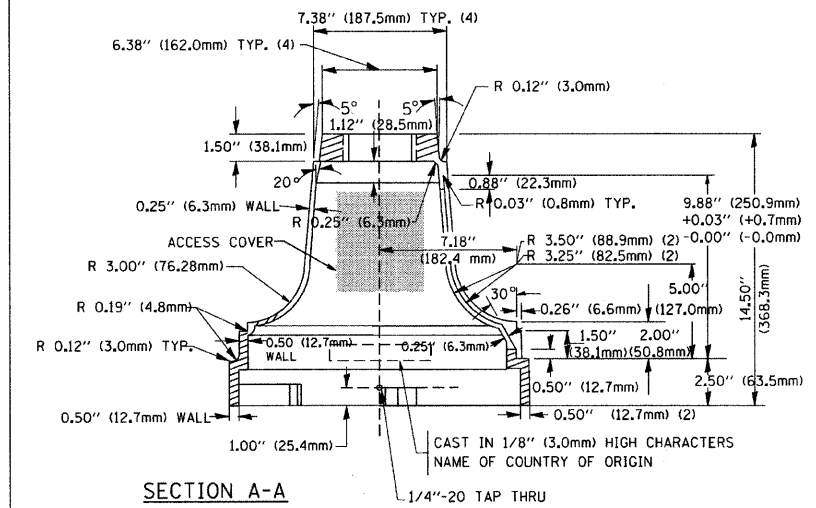
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



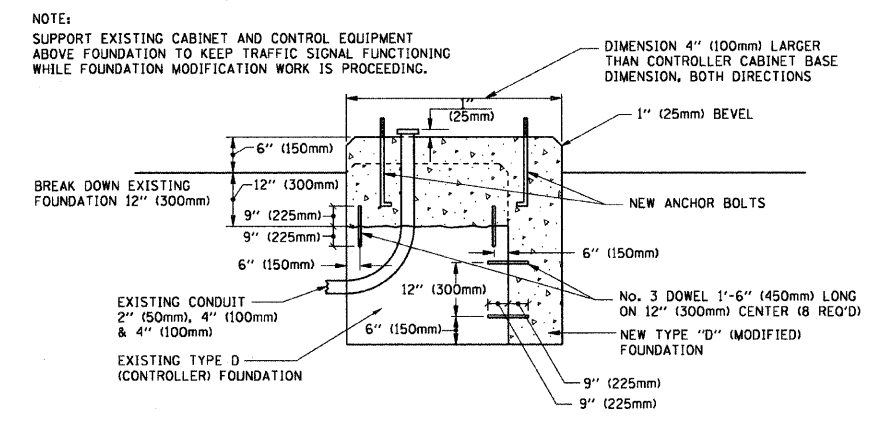
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\"(241mm)	19\"(483mm)	7\"(178mm) - 12\"(300mm)	53 lbs (24kg)
VARIABLES	10.75\"(273mm)	21.5\"(546mm)	7\"(178mm) - 12\"(300mm)	68 lbs (31 kg)
VARIABLES	13.0\"(330mm)	26\"(660mm)	7\"(178mm) - 12\"(300mm)	81 lbs (37 kg)
VARIABLES	18.5\"(470mm)	37\"(940mm)	7\"(178mm) - 12\"(300mm)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

SHROUD

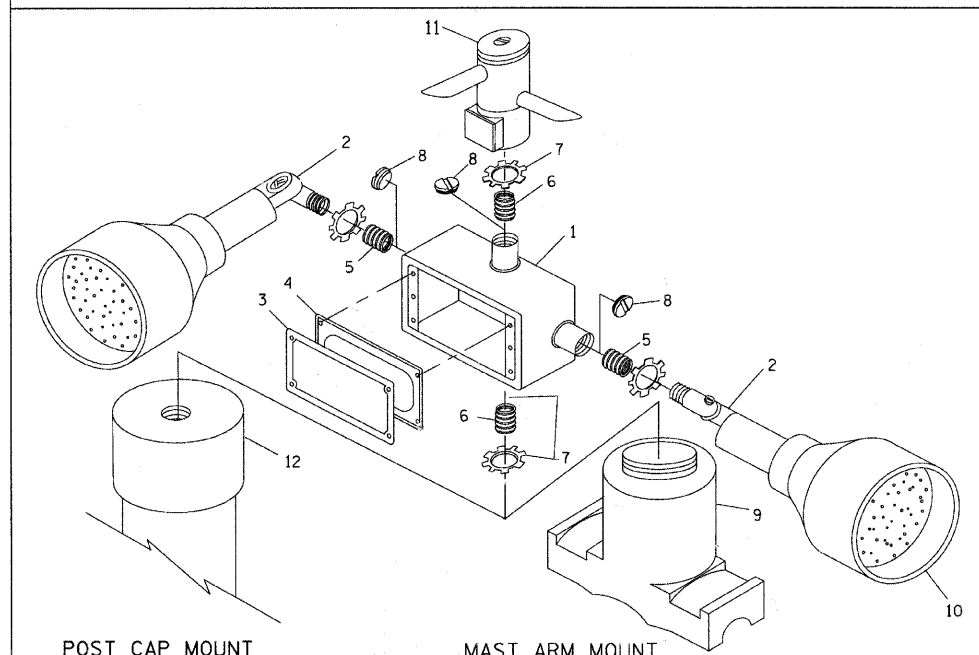
- NOTES:**
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
 2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST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



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



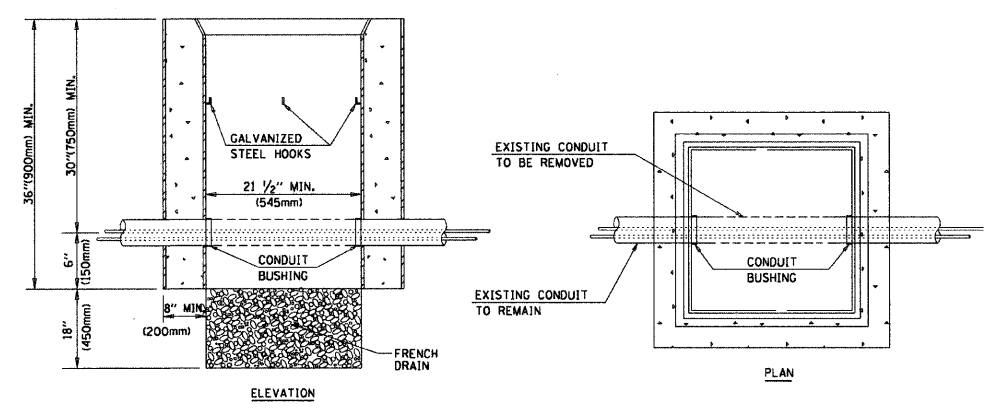
MODIFY EXISTING TYPE "D" FOUNDATION



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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 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.



HANDHOLE TO INTERCEPT EXISTING CONDUIT

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.

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	5/30/00
BUREAU OF TRAFFIC	3/15/01
BUREAU OF TRAFFIC	11/12/01
BUREAU OF TRAFFIC	1-01-02
BCK	10/28/09

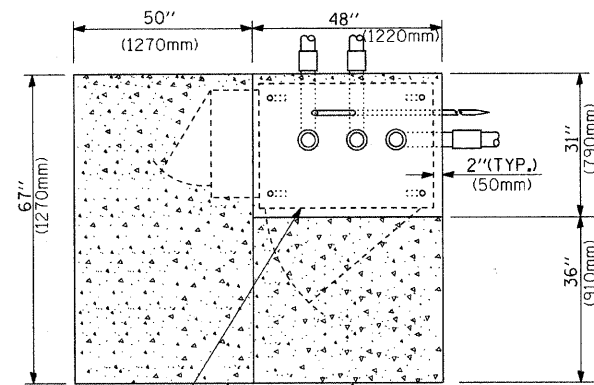
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS**

SCALE: NONE

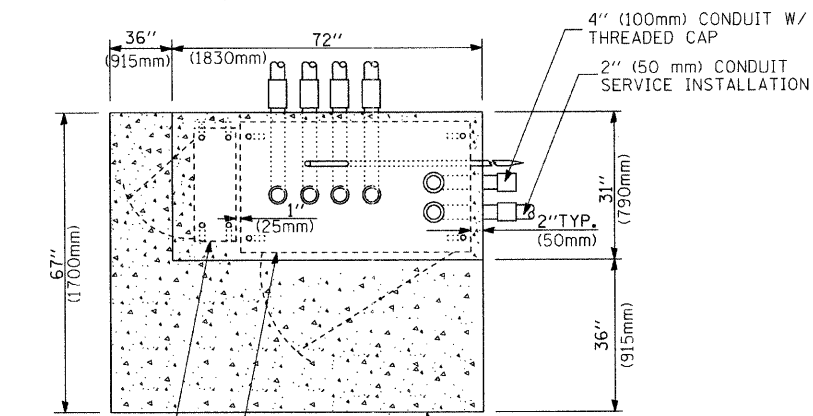
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DESIGNED BY: DAD
CHECKED BY: DAD
SHEET 4 OF 6

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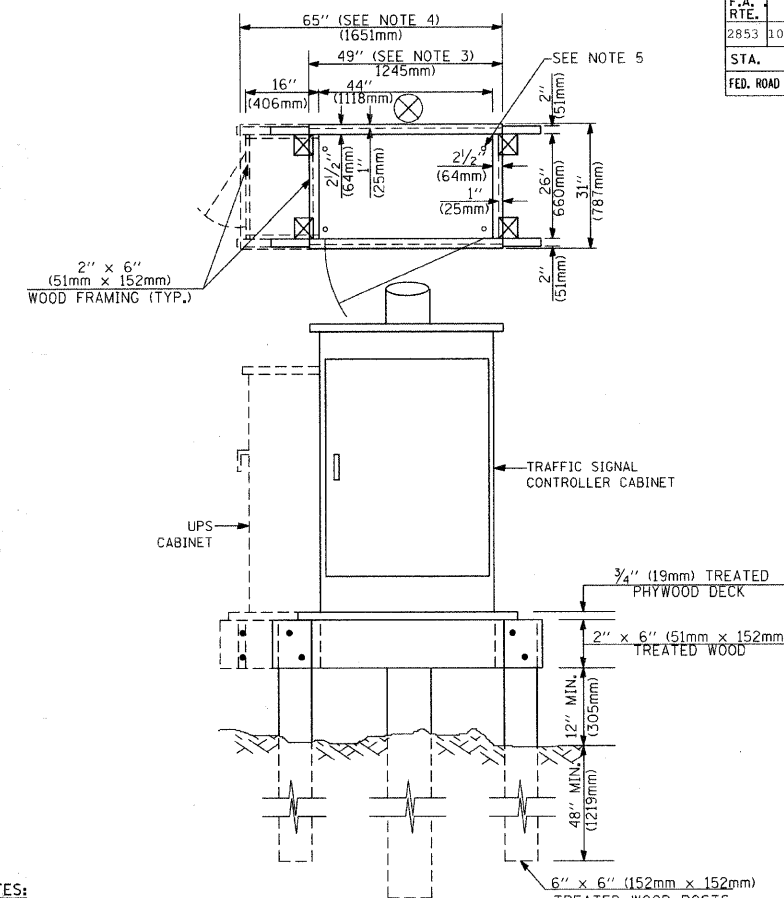
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-LS	COOK	39	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TOP VIEW



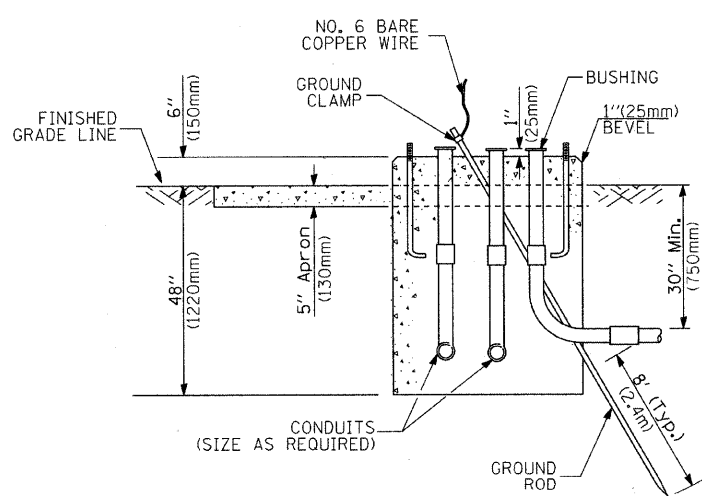
TOP VIEW



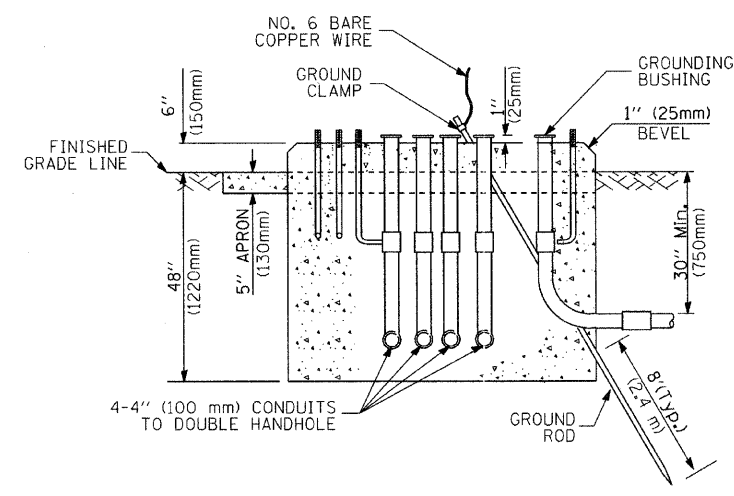
NOTES:

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

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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

REVISIONS	
NAME	DATE
	5/30/00
	3/15/01
	11/12/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE

DRAWN BY: BCK
DESIGNED BY: DAD
CHECKED BY: DAD
SHEET 5 OF 6

TS05

PLOT DATE = 11/4/2009
FILE NAME = c:\p\work\p1001\BAUER\LD\0826A\ts05.dgn
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TRAFFIC SIGNAL LEGEND

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	10-00259-00-L6	COOK	39	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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, MMI2F																					
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MMI2F 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, MMI2F																					
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)																					
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																					
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																					
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED																					
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR																					
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				<h2>RAILROAD SYMBOLS</h2> <table border="0"> <tr> <td></td> <td>EXISTING</td> <td>PROPOSED</td> </tr> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </table>					EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
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PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																									
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																									
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				<h2>REVISIONS</h2> <table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td>5/30/00</td> </tr> <tr> <td></td> <td>3/15/01</td> </tr> <tr> <td></td> <td>11/12/01</td> </tr> </tbody> </table>								NAME	DATE		5/30/00		3/15/01		11/12/01										
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PAN, TILT, ZOOM CAMERA																													
WIRELESS DETECTOR SENSOR																													
WIRELESS ACCESS POINT																													

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 USER NAME = galardi / IN
 USER MAKE = 08/09/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE

DRAWN BY: BCK
 DESIGNED BY: DAD
 CHECKED BY: DAD
 SHEET 6 OF 6

TS05