F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	1
		ILLINOIS	CONTRACT NO. 63579	

1-74

INDEX OF SHEETS 09-21-12 LETTING ITEM 059

		1	COVER SHEET AND INDEX OF DRAWINGS
		2	GENERAL NOTES AND STATE STANDARDS
3	-	8	SUMMARY OF QUANTITIES
9	-	10	TYPICAL SECTIONS
		11	SCHEDULE OF QUANTITIES
		12	ALIGNMENT, TIES AND BENCHMARKS
		13	REMOVAL PLAN
14	-	15	PROPOSED PLAN AND PROFILE
16	-	19	SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL
		20	EROSION CONTROL AND LANDSCAPING PLANS
		21	DRAINAGE AND UTILITY GENERAL NOTES AND DETAILS
22	-	23	DRAINAGE & UTILITY PLAN AND PROFILE
24	-	25	PLATS OF HIGHWAYS
26	-	28	INTERSECTION & ROADWAY DETAILS
		29	PAVEMENT MARKING AND SIGNING PLAN
30	-	35	TRAFFIC SIGNAL PLANS
36	-	37	LIGHTING PLANS AND DETAILS
		40	SOIL BORINGS
41	-	68	IDOT DISTRICT ONE DETAILS
69	-	73	CROSS SECTIONS

FOR LIST OF STATE AND LOCAL STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED WITHIN THE VILLAGE OF WESTMONT

TRAFFIC DATA – PASQUINELLI DRIVE

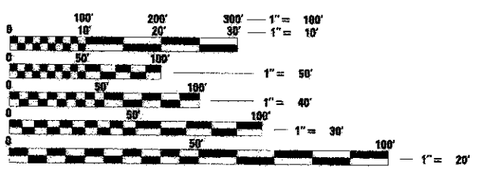
POSTED SPEED: 30MPH
DESIGN SPEED: 35MPH
CURRENT ADT (2007): 11,000 VPD
DESIGN ADT (2030): 12,000 VPD

TRAFFIC DATA – OGDEN AVENUE

POSTED SPEED: 35MPH
DESIGN SPEED: 40MPH
CURRENT ADT (2007): 37,400 VPD
DESIGN ADT (2030): 41,000 VPD

DESIGN DESIGNATION

COLLECTOR STREET (PASQUINELLI DRIVE)
OTHER PRINCIPAL ARTERIAL (OGDEN AVENUE)



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

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

CONTRACT NO. 63579

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

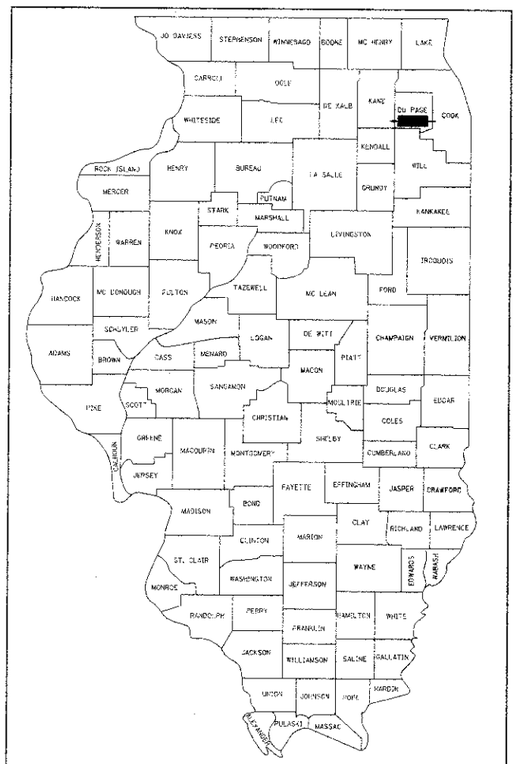
PLANS FOR PROPOSED FEDERAL AID PROJECT

FAU 3002 (PASQUINELLI DRIVE) AT FAP 311 (OGDEN AVENUE /U.S. ROUTE 34)

ROADWAY RECONSTRUCTION AND WIDENING

SECTION NO.: 00-00083-00-PV
PROJECT NO.: CMM-M-8003 (748)
JOB NO.: C-91-128-07

VILLAGE OF WESTMONT
DUPAGE COUNTY



LOCATION OF SECTION INDICATED THUS:- ■

AGENCY RESPONSIBLE FOR LETTING

APPROVED MARCH 28 20 11

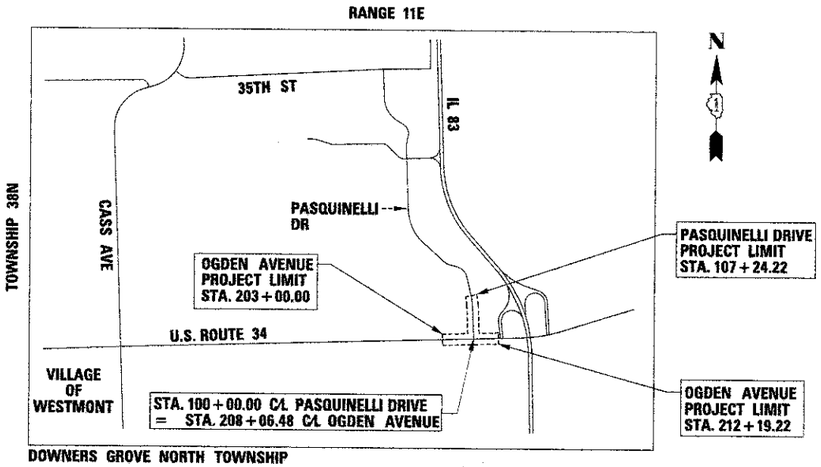
WESTMONT DIRECTOR OF PUBLIC WORKS

PASSED APRIL 13 20 11

DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW APRIL 13, 20 11

DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER



LOCATION MAP

N.T.S.

GROSS LENGTH OF PROJECT = 1,645 LINEAL FEET (0.31 MILES)
NET LENGTH OF PROJECT = 1,645 LINEAL FEET (0.31 MILES)

IL DESIGN FIRM NO. 184-001310

Burns & McDonnell SINCE 1898

EXP. 04/30/2013

MATTHEW A. PAPIRNIK 062-052094 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

MATTHEW A. PAPIRNIK, P.E. ENGINEER
ILLINOIS REGISTRATION No. 062-052094
EXPIRATION DATE: 11/30/2011
APPLIES TO ALL SHEETS EXCEPT FOR THOSE LISTED BELOW

DAVID E. MERTZ 062-052068 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

28 MARCH 2011

DAVID E. MERTZ, P.E. ENGINEER
ILLINOIS REGISTRATION No. 062-052068
EXPIRATION DATE: 11/30/2011
APPLIES TO SHEETS 30-37

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

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

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD); THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS, AND IDOT STANDARD DRAWINGS AS LISTED IN THE CONTRACT DOCUMENTS.

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

NON-SPECIAL WASTE

THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED "LEAKING UNDERGROUND STORAGE TANK" (LUST) CLEANUPS, OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION TO REMEDIATE ON-SITE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION. REFER TO THE SPECIAL PROVISIONS.

STAKING

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

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

THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OR PROPOSED PAVEMENT GRADES, UNLESS OTHERWISE NOTED.

TREE REMOVAL, CLEARING AND HEDGE REMOVAL

ALL TREES DESIGNATED TO BE SAVED SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS. WORK SHALL BE PAID FOR USING PAY ITEMS PROVIDED IN THE PLANS.

THE CONTRACTOR'S SPECIAL ATTENTION IS REQUIRED TO PRESERVE AS MANY TREES, SHRUBS, AND BUSHES AS POSSIBLE DURING THE CONSTRUCTION OF THE IMPROVEMENT. PLAN QUANTITIES FOR TREE REMOVAL HAVE BEEN BASED ON REMOVAL OF TREES WITHIN THE CONSTRUCTION LIMITS. THIS QUANTITY MAY BE . REDUCED OR INCREASED DURING CONSTRUCTION AT THE DISCRETION OF THE ENGINEER.

CLEARING SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS SUCH AS FENCES, WALLS, FOUNDATIONS, BUILDINGS, ACCUMULATION OF RUBBISH OF WHATEVER NATURE, EXISTING STRUCTURES AND ITEMS AS INDICATED IN THE PLANS HEREIN. FOR ALL LOGS, SHRUBS, BUSHES, SAPLINGS, GRASS, WEEDS AND OTHER VEGETATION AND STUMPS LESS THAN 6 INCHES IN DIAMETER. CLEARING WILL NOT BE MEASURED FOR PAYMENT.

UTILITIES

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

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR THIS WORK.

SIGNING, STRIPING & LANDSCAPING

THOSE SIGNS WHICH ARE SO DESIGNATED BY THE ENGINEER SHALL BE REMOVED, STORED AND SUBSEQUENTLY RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. IN ADDITION, ANY SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION OPERATIONS BEYOND REPAIR SHALL BE REPLACED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

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.

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

GENERAL NOTES

WHERE SECTION, SUBSECTION, SUBDIVISION OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

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

PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH ARTICLE 420.18 OF THE STANDARD SPECIFICATIONS TO CONCRETE MEDIAN SURFACES AND ALL EXPOSED SURFACES OF CURBS AND GUTTERS. ANY PART OF THIS ITEM CAN BE DELETED OR ANOTHER ADDED AT THE DISCRETION OF THE ENGINEER.

10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD. UNLESS OTHERWISE SHOWN, THE TRANSITIONS SHALL BE PAID AT THE CONTRACTOR UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

A SAW CUT SHALL BE REQUIRED TO THE FULL DEPTH AT THE JOINT BETWEEN THE PAVEMENT, SIDEWALK, CURB AND GUTTER, MEDIAN, DRIVEWAY PAVEMENT, HOT-MIX ASPHALT SURFACES TO BE REMOVED AND THAT LEFT IN PLACE OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEMS.

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

INDEX OF DISTRICT ONE STANDARDS

DRAWING NUMBER	TITLE
BD01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 4.5 M (15 FT.)
BD02	DRIVEWAY DETAIL - DISTANCE BETWEEN R.O.W. AND FACE OF CURB IS GREATER THAN 4.5 M (15 FT.)
BD05	CONCRETE MEDIAN TYPE SB (DOWELLED) AND CORRUGATED MEDIAN (MODIFIED)
BD07	STORM SEWER CONNECTION TO EXISTING SEWER
BD08	FRAMES AND LIDS ADJUSTMENT WITH MILLING; AND FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING
BD12	MANHOLE WITH RESTRICTOR PLATE
BD22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD48	PCC PAVEMENT ROUNDOUTS AT CURB & GUTTER
BE220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE230	COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX DETAILS
BE300	LIGHT POLE FOUNDATION, CONCRETE, <=35 FT. M.H. (11 1/2" B.C.)
BE301	LIGHT POLE FOUNDATION, CONCRETE, <=35 FT. M.H. (15" B.C.)
BE403	LIGHT POLE, ALUMINUM, TRUSS TYPE, 30 FT. M.H.
BE702	MISCELLANEOUS DETAILS, SHEET A - CABLE SPLICE, POLE WIRING, TRENCH DETAIL
BE800	TEMPORARY LIGHTING
BE801	TEMPORARY AERIAL CABLE INSTALLATION
TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC13	DISTRICT 1 TYPICAL PAVEMENT MARKINGS
TC14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC22	ARTERIAL ROAD INFORMATION SIGN
TC26	DRIVEWAY ENTRANCE SIGNING
TS02	MAST ARM MOUNTED STREET NAME SIGNS
TS05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

INDEX OF STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
424001-06	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
602001-02	CATCH BASIN, TYPE A
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602406-05	MANHOLE, TYPE A, 1.8m (72") DIAMETER
602501-02	VALVE VAULT, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAME AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701602-05	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK CLOSURE OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
876001-02	PEDESTRIAN PUSH BUTTON POST
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-05	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-09	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS - POST & BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

PLAN — SURVEYED / PLOTTED / ROADWAY CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / ROADWAY CHECKED / STRUCTURE ADDED TO CADD / NOTE BOOK / NO. / BY / DATE

Burns & McDonnell SINCE 1898

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
GENERAL NOTES AND INDEX OF STATE STANDARDS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	2
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SP	CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	ROADWAY 0004		LIGHTING 0021		TRAFFIC SIGNALS 0021	
					70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	STP / CMAQ / LOCAL FUNDING	100% VILLAGE OF WESTMONT
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	36	36					
*	20101000	TEMPORARY FENCE	FOOT	500	250	250				
	20101100	TREE ROOT PRUNING	EACH	1	1					
	20200100	EARTH EXCAVATION	CU YD	1,693	1,281	412				
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	550	505	45				
	20800150	TRENCH BACKFILL	CU YD	653	418	235				
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,751	3,751					
*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,096	936	160				
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	12	2				
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	12	2				
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	12	2				
*	25200110	SODDING, SALT TOLERANT	SQ YD	1,096	936	160				
*	25200200	SUPPLEMENTAL WATERING	UNIT	11	9	2				
*	28000400	PERIMETER EROSION BARRIER	FOOT	1,370	1,030	340				
	28000510	INLET FILTERS	EACH	7	3	4				
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	385	385					
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4,386	3,736	650				
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	305	305					
	35600704	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	SQ YD	29	29					
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	35	35					
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	759	759					
	40600300	AGGREGATE (PRIME COAT)	TON	16	16					
	40600895	CONSTRUCTING TEST STRIP	EACH	1	1					
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	21	21					
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	35	35					
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	5	3	2				
	40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	3,451	3,451					
	42000411	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED)	SQ YD	646		646				

* DENOTES SPECIALTY ITEM

△ DENOTES SPECIAL PROVISION

Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = $USER$ | DESIGNED - JMT | REVISED -
FILE NAME = $FILE$ | DRAWN - JAB | REVISED -
PLOT SCALE = $SCALE$ | CHECKED - MAP | REVISED -
PLOT DATE = $DATE$ | D.A.E. - 01/20/12 | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	3
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

SP	CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	ROADWAY 0004		LIGHTING 0021		TRAFFIC SIGNALS 0021	
					70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	STP / CMAQ / LOCAL FUNDING	100% VILLAGE OF WESTMONT
	42001300	PROTECTIVE COAT	SQ YD	1,557	565	992				
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	49	49					
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	3,597	1,459	2,138				
	42400600	DETECTABLE WARNINGS	SQ FT	80	72	8				
	44000100	PAVEMENT REMOVAL	SQ YD	2,971	2,852	119				
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	432	432					
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,340	1,589	751				
	44000600	SIDEWALK REMOVAL	SQ FT	3,789	2,126	1,663				
	44003100	MEDIAN REMOVAL	SQ FT	820		820				
*	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	14		14				
	50901760	PIPE HANDRAIL	FOOT	89		89				
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1		1				
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	306	186	120				
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	365	365					
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	48		48				
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	120		120				
	550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	24	24					
	56300300	ADJUSTING WATER SERVICE LINES	FOOT	40	40					
△	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	2	2					
	60107600	PIPE UNDERDRAINS 4"	FOOT	517	430	87				
	60200905	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE	EACH	3	3					
	60201205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 12 FRAME AND GRATE	EACH	7	7					
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	4		4				
	60218400	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	2	1				
	60223800	MANHOLES, TYPE A, 6' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1					
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2					
	60600040	REMOVING MANHOLES	EACH	1	1	0				

* DENOTES SPECIALTY ITEM

△ DENOTES SPECIAL PROVISION

Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = $USER$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
PLOT DATE = $DATE$

DESIGNED - JMT
DRAWN - JAB
CHECKED - MAP
DATE - 01/20/12

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	4
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SP	CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	ROADWAY 0004		LIGHTING 0021		TRAFFIC SIGNALS 0021	
					70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	STP / CMAQ / LOCAL FUNDING	100% VILLAGE OF WESTMONT
	60500060	REMOVING INLETS	EACH	5	4	1				
	60600605	CONCRETE CURB, TYPE B	FOOT	262	262					
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,206	1,206					
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	470	149	321				
	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	600	300	300				
	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
	66900530	SOIL DISPOSAL ANALYSIS	EACH	3	2	1				
*	67100100	MOBILIZATION	L SUM	1	0.5	0.5				
	67201100	SEALING ABANDONED MONITORING WELLS	EACH	2	2					
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	14		14				
*	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,900	3,900	0				
	70300260	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	15	15	0				
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2,280	900	1,380				
	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	59	15	44				
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	368	331	37				
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,620	1,310	1,310				
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,343	1,140	203				
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	85	50	35				
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	66	66					
	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	73		73				
	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	94		94				
	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	361		361				
	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	46		46				
*	78300100	PAVEMENT MARKING REMOVAL	SQ FT	752	100	652				
	80300100	LOCATING UNDERGROUND CABLE	FOOT	10					10	
	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1					1	
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	425					425	
	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	9					9	

* DENOTES SPECIALTY ITEM
△ DENOTES SPECIAL PROVISION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	5
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SP	CODE& PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	ROADWAY 0004		LIGHTING 0021		TRAFFIC SIGNALS 0021	
					70% STP / 30% VILLAGE OF WESTMON	80% CMAQ / 20% STATE	70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	STP / CMAQ / LOCAL FUNDING	100% VILLAGE OF WESTMONT
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	213			166		47	
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	213					213	
*	81400100	HANDHOLE	EACH	3					3	
	81603045	UNIT DUCT, 600V, 3 1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	564			564			
	81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	304				304		
*	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	3			3			
*	83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	3			3			
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	66			36	30		
*	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	3			3			
	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	2				2		
*	84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	3			3			
	84200804	REMOVAL OF POLE FOUNDATION	EACH	5			3	2		
	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2				2		
	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1					1	
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2					2	
	87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	790					790	
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	517					517	
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	183					183	
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,311					1,311	
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	542					542	
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,154					2,154	
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	30					30	
	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6, 1C	FOOT	846					846	
	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1					1	
	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1					1	
	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1					1	
	87702310	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 30 FT.	EACH	1					1	

* DENOTES SPECIALTY ITEM

△ DENOTES SPECIAL PROVISION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	6
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

SP	CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	ROADWAY 0004		LIGHTING 0021		TRAFFIC SIGNALS 0021	
					70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	STP / CMAQ / LOCAL FUNDING	100% VILLAGE OF WESTMONT
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4					4	
	87800400	CONCRETE FOUNDATION, TYPE E - 30 INCH DIAMETER	FOOT	55					55	
	87900200	DRILL EXISTING HANDHOLE	EACH	4					4	
	88030020	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST-ARM MOUNTED	EACH	7					7	
	88030050	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED	EACH	3					3	
	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1					1	
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3					3	
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2					2	
	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	10					10	
	88500100	INDUCTIVE LOOP DETECTOR	EACH	16					16	
	88600100	DETECTOR LOOP, TYPE I	FOOT	373					373	
	88700200	LIGHT DETECTOR	EACH	3						3
	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1						1
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2					2	
	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1					1	
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1					1	
	89502380	REMOVE EXISTING HANDHOLE	EACH	2					2	
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5					5	
* △	X5510100	STORM SEWER REMOVAL	FOOT	282	270	12				
△	X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	3		3				
	X6061740	CONCRETE MEDIAN, TYPE M-2 (SPECIAL)	SQ FT	300	300					
△	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.5	0.5				
*	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1					1	
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1					1	
	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	334					334	

* DENOTES SPECIALTY ITEM

△ DENOTES SPECIAL PROVISION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	7
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SP	CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	ROADWAY 0004		LIGHTING 0021		TRAFFIC SIGNALS 0021	
					70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	70% STP / 30% VILLAGE OF WESTMONT	80% CMAQ / 20% STATE	STP / CMAQ / LOCAL FUNDING	100% VILLAGE OF WESTMONT
△	Z0012450	CONCRETE STEPS	CU YD	1		1				
△	Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	270	135	135				
△	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5				
△	Z0018900	DRILL AND GROUT DOWEL BARS	EACH	368		368				
△	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104		104				
* △	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4		4				
△	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 2	EACH	1					1	
△	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 10	FOOT	791					791	
△	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1					1	
△	Z0076600	TRAINEES (1)	HOUR	1,000						
△	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE (1)	HOUR	1,000						

* DENOTES SPECIALTY ITEM
△ DENOTES SPECIAL PROVISION

(1) CONSTRUCTION TYPE CODE = 0042

* DENOTES SPECIALTY ITEM
△ DENOTES SPECIAL PROVISION

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CHECKED - MAP
DATE - 01/20/12

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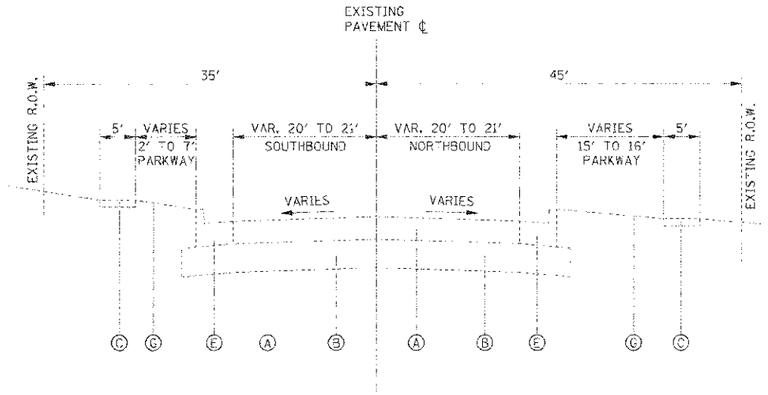
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	8
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

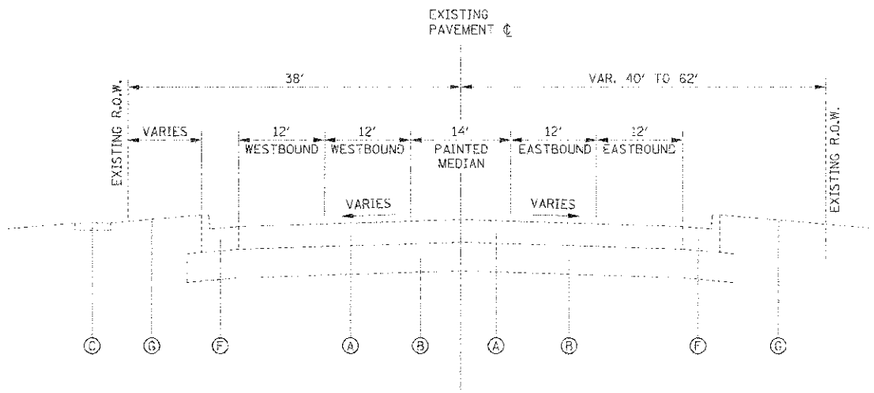


PASQUINELLI DRIVE
EXISTING TYPICAL SECTION

STA. 100+30 TO STA. 107+24

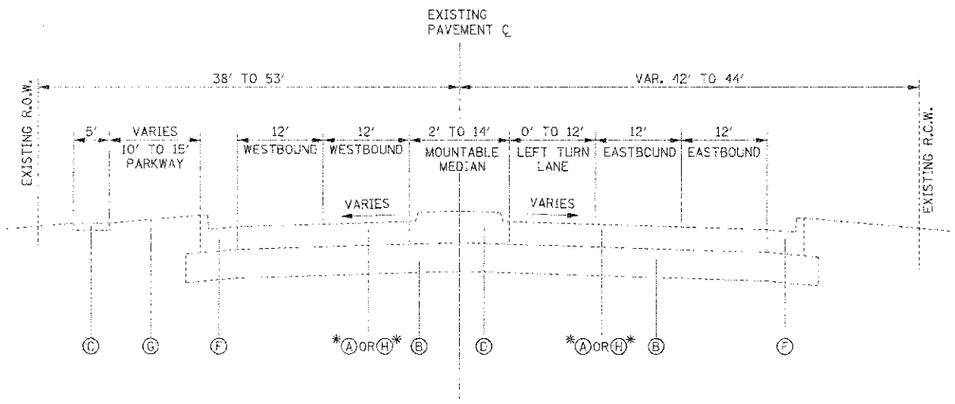
EXISTING LEGEND

- Ⓐ EXISTING HMA PAVEMENT, 10" & VARIES
- Ⓑ EXISTING AGGREGATE SUBBASE, 8" & VARIES
- Ⓒ EXISTING PCC SIDEWALK
- Ⓓ EXISTING MOUNTABLE CONCRETE MEDIAN
- Ⓔ EXISTING CURB AND GUTTER, TYPE B-6.12
- Ⓕ EXISTING CURB AND GUTTER, TYPE B-6.24
- Ⓖ EXISTING LANDSCAPED PARKWAY
- Ⓗ EXISTING PCC PAVEMENT, THICKNESS VARIES



OGDEN AVENUE (US RTE 34)
EXISTING TYPICAL SECTION

STA. 203+00 TO STA. 205+83



OGDEN AVENUE (US RTE 34)
EXISTING TYPICAL SECTION

STA. 205+83 TO STA. 212+19

* EXISTING PAVEMENT CONSISTS OF AN HMA OVERLAY AND HMA BASE COURSE WEST OF STA. 208+56 AND EXISTING PCC PAVEMENT EAST OF STA. 208+55.

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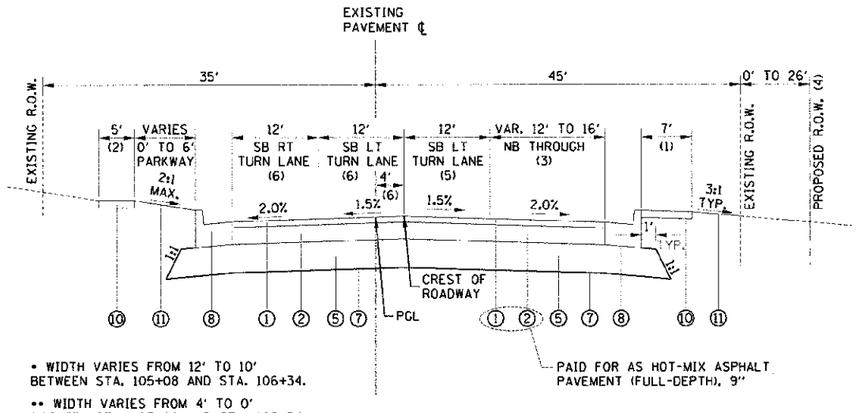
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
EXISTING TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	9
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

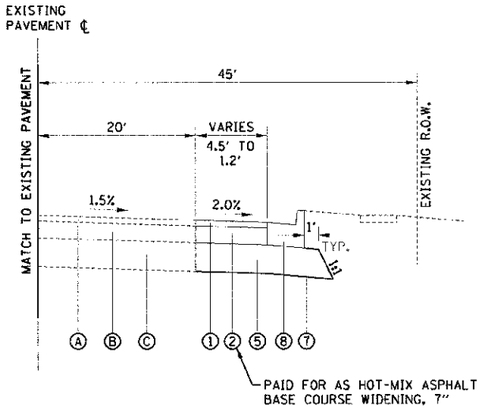


• WIDTH VARIES FROM 12' TO 10' BETWEEN STA. 105+08 AND STA. 106+34.

•• WIDTH VARIES FROM 4' TO 0' BETWEEN STA. 105+08 AND STA. 106+34.

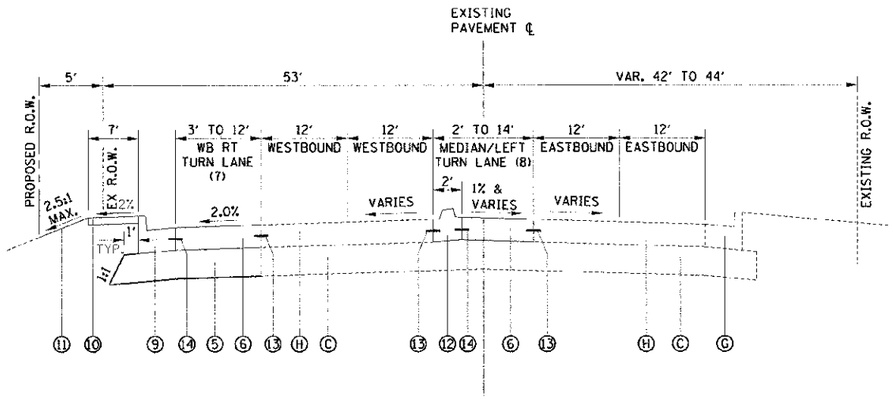
PASQUINELLI DRIVE
PROPOSED TYPICAL SECTION

STA. 100+30 TO STA. 106+34



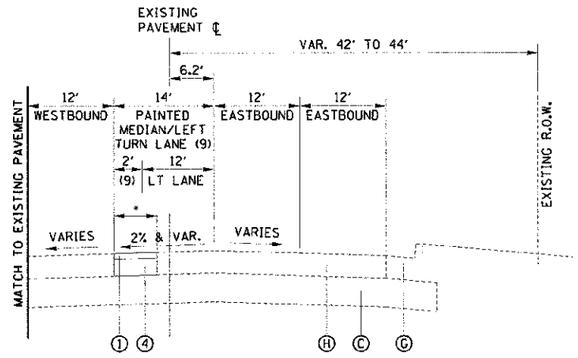
PASQUINELLI DRIVE
WIDENING TYPICAL SECTION

STA. 106+34 TO STA. 107+25



OGDEN AVENUE (US RTE 34)
PROPOSED TYPICAL SECTION

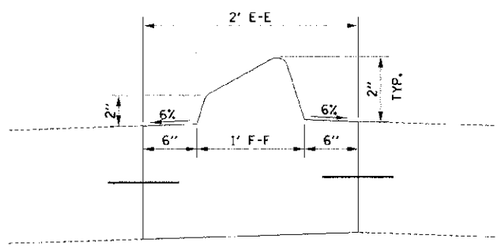
STA. 208+37 TO STA. 212+19



• WIDTH VARIES 2-4'

OGDEN AVENUE (US RTE 34)
PROPOSED TYPICAL SECTION

MOUNTABLE MEDIAN REPLACEMENT WITH HMA PAVEMENT
STA. 205+83 TO STA. 206+26



CONCRETE MEDIAN, TYPE M-2 (SPECIAL)

PROPOSED LEGEND

1. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
2. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7"
3. HOT-MIX ASPHALT BASE COURSE, 5 1/4"
4. CLASS D PATCHES, TYPE II, 8 INCH
5. AGGREGATE SUBGRADE IMPROVEMENT, 12"
6. PORTLAND CEMENT CONCRETE PAVEMENT, 9 1/2" (JOINTED)
7. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
8. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
9. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
10. PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
11. TOPSOIL FURNISH AND PLACE, 4 INCH AND SODDING, SALT TOLERANT
12. CONCRETE MEDIAN, TYPE M-2 (SPECIAL)
13. DRILL AND GROUT DOWEL BARS (NO. 6 x 24" C-C, EPOXY COATED)
14. LONGITUDINAL CONSTRUCTION JOINT, NO. 6 x 24" C-C, EPOXY COATED DEFORMED TIE BARS, DRILLED & GROUTED IN PLACE (INCLUDED IN THE COST OF CONC CURB & GUTTER OR MEDIAN)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	VOIDS
HMA ROADWAY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm) 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7" (IN 3 LIFTS)	4% @ 70 GYR.
HMA DRIVEWAY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm) 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE HMA BINDER IL-19mm, 8" (IN 3 LIFTS)	4% @ 50 GYR.
PAVEMENT PATCHING	
CLASS D PATCHES, TYPE II HMA BINDER IL-19mm, 8" (IN 3 LIFTS)	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/SY-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 OF RAP, SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTES:

(1) MATCH EXISTING SIDEWALK AT STA. 101+12.

(2) INSTALL 7' SIDEWALK AT BACK OF CURB FROM STA. 100+30 TO STA. 100+77. INSTALL 5' SIDEWALK OFFSET FROM BACK OF CURB STA. 100+77 TO STA. 102+28. MATCH EXISTING SIDEWALK AT STA. 102+28.

(3) LANE TAPERS FROM 16' TO 12' BETWEEN STA. 102+00 AND STA. 103+00.

(4) REFER TO PROPOSED PLAN AND PROFILE FOR LOCATION OF PROPOSED RIGHT OF WAY CORNER CLIP.

(5) TRANSITION SB LEFT TURN LANE TO PAINTED MEDIAN STA. 104+21 TO STA. 105+59. REFER TO PROPOSED PLAN AND PROFILE.

(6) LANE WIDTHS VARY FROM 12' TO 10', AND OFFSET WIDTH VARIES FROM 4' TO 0', BETWEEN STA. 105+08 AND STA. 106+34.

(7) PAVEMENT WIDENING FOR RIGHT TURN LANE TAPERS FROM 3' TO 14' BETWEEN STA. 211+19 AND STA. 212+19. OGDEN AVENUE PAVEMENT WIDENING STA. 207+41 TO STA. 212+19.

(8) EXISTING MOUNTABLE MEDIAN REMOVED AND REPLACED WITH PCC PAVEMENT BETWEEN STA. 208+37 AND STA. 210+09. PROPOSED 2' MOUNTABLE MEDIAN STA. 208+61 TO STA. 210+09. MATCH EXISTING MEDIAN AT STA. 210+09.

(9) EXISTING MOUNTABLE MEDIAN REMOVED AND REPLACED WITH HMA PAVEMENT BETWEEN STA. 205+83 AND STA. 206+26. PROPOSED 2' PAINTED MEDIAN SHALL MATCH EXISTING STRIPING. REFER TO ROADWAY DETAIL SHEET FOR MORE INFORMATION.

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT, 10" & VARIES
- (B) EXISTING AGGREGATE SUBBASE, 8" & VARIES
- (C) EXISTING PCC SIDEWALK
- (D) EXISTING MOUNTABLE CONCRETE MEDIAN
- (E) EXISTING CURB AND GUTTER, TYPE B-6.12
- (F) EXISTING CURB AND GUTTER, TYPE B-6.24
- (G) EXISTING LANDSCAPED PARKWAY
- (H) EXISTING PCC PAVEMENT, THICKNESS VARIES

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1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
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PLOT DATE = @DATE@	DATE - 01/20/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	10
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			

EARTHWORK TABLE

	UNDERCUT AND AGGREGATE SUBGRADE IMPROVEMENT (CY)*	UNSUITABLE EXCAVATION (TOPSOIL) (CY)	EARTH EXCAVATION (CY)	EXCAVATION TO BE USED FOR EMBANKMENT (CY)	EMBANKMENT REQUIRED (CY)	EARTHWORK BALANCE WASTE (+) / SHORTAGE (-)
PASQUINELLI DRIVE	385	120	1281	1025	5	1020
OGDEN AVENUE	0	45	412	330	81	249
TOTALS	385	165	1693	1354	87	1269

* REMOVAL PAID FOR AS UNSUITABLE EXCAVATION

SHRINKAGE FACTOR = 0.80

SW CORNER OF CONC BLOCK SIGN BASE

SE CORNER BRICK SIGN

38.37'

65.95'

STA. 212+00.00 (OGDEN AVENUE)
N: 1,873,825.02
E: 1,088,959.01

OGDEN AVENUE

℄ OGDEN AVENUE

38.90'

SET CROSS NOTCH

PLAN

PROFILE

℄ PASQUINELLI DRIVE

SET CROSS NOTCH

SET CROSS NOTCH

33.15'

43.86'

PASQUINELLI DRIVE

STA. 104+00.00
(PASQUINELLI DRIVE)
N: 1,874,208.09
E: 1,088,549.04

73.60'

SET CROSS NOTCH

PASQUINELLI DRIVE

CROSS NOTCH
SET IN CONCRETE

CROSS NOTCH
SET IN CONC BASE
OF TRAFFIC SIGNAL

51.55'

62.96'

FOUND MAG NAIL
(2.31' FROM INTERSECTION
OF CENTERLINES)

OGDEN AVENUE

STA. 208+06.48 ℄ OGDEN AVE. =
STA. 100+00 ℄ PASQUINELLI DR.

35.94'

℄ OGDEN AVENUE

SITE BENCHMARK
CROSS NOTCH SET IN CONCRETE
N 1,874,158.35
E 1,087,827.31
ELEV 723.63

PROFILE

PT Sta 109+22.02

EX/PR ℄ PASQUINELLI DRIVE

END
PASQUINELLI DRIVE
STA. 107+24.22

PI Sta 107+15.75

EXIST. CURVE PASQ-1
PI STA. = 107+15.75
N: 1,874,523.56
E: 1,088,535.79
Δ = 11° 53' 27" (LT)
D = 2° 52' 19"
R = 1,995.00'
T = 207.76'
L = 414.03'
E = 10.79'
e = N.C.
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 105+07.98
N: 1,874,315.98
E: 1,088,544.51
P.T. STA. = 109+22.02
N: 1,874,724.88
E: 1,088,484.48

PC Sta 105+07.98

105+00

N

50 0 50 100

SCALE IN FEET

N 2° 24' 20.98" E

PASQUINELLI DRIVE

AREA BENCHMARK/PROJECT DATUM:
DuPAGE COUNTY BENCHMARK (BM #DGN02001)
A BRONZE DISK MONUMENT ESTABLISHED IN CONCRETE
BASE OF TRAFFIC SIGNAL CONTROL LIGHT, STAMPED
"DU PAGE COUNTY MAPS AND PLATS"
LOCATED ON THE NORTH SIDE OF OGDEN AVENUE, IN
THE ISLAND WITHIN THE ENTRANCE TO SOUTHBOUND IL 83.

ELEVATION = 708.28

STA. 100+00.00 ℄ PASQUINELLI DRIVE
STA. 208+06.48 ℄ OGDEN AVENUE (LS 34)
N: 1,873,808.44
E: 1,088,565.83

BEGIN
OGDEN AVENUE
STA. 203+00.00

END
STA. 212+19.22
OGDEN AVENUE

POT Sta 200+00.00
N: 1,873,774.47
E: 1,087,760.07

POT Sta 213+36.87
N: 1,873,830.86
E: 1,089,097.75

OGDEN AVENUE (US 34)

EX/PR ℄ OGDEN AVENUE (US 34)

89°59'30"

100+00

200+00

205+00

210+00

N 87° 35' 09.33" E

N 87° 35' 09.33" E

STA 100+00.00 ℄ PASQUINELLI DRIVE
= STA 208+06.48 ℄ OGDEN AVENUE

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PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1:50 | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	12
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

NOTES:

1. EXISTING LIGHT POLE BANNERS SHALL BE REMOVED AND RELOCATED. PAID FOR AS: REMOVE SIGN PANEL - TYPE 1 AND RELOCATE SIGN PANEL - TYPE 1.
2. REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR LOCATIONS OF RELOCATED SIGN PANELS AND BANNERS.
3. ALL SIGN PANELS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

** REMOVE ENTIRE FOUNDATION FOR PLACEMENT OF DRAINAGE STRUCTURE.

REMOVAL LEGEND

- CONC CURB AND CONC CURB & GUTTER REMOVAL
- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- BUTT JOINT PAVEMENT REMOVAL
- CONCRETE MEDIAN SURFACE REMOVAL
- X" TREE REMOVAL
- TREE PROTECTION
- R DRAINAGE STRUCTURE REMOVAL

N

SCALE IN FEET: 20 0 20 40

MATCHLINE STA 101+30 (SEE BELOW)

REMOVE EXISTING FLAGSTONE PAVING (PAID FOR AS SIDEWALK REMOVAL)

CURB AND GUTTER REMOVAL (TYP)

SIDEWALK REMOVAL (TYP)

PASQUINELLI DRIVE

EXISTING R.O.W.

+12.17
STA. 100+90
SEAL ABANDONED
MONITORING WELL

REMOVAL OF LIGHTING UNIT (NO SALVAGE)
REMOVAL OF POLE FOUNDATION
REMOVE SIGN PANEL (2 EA)

GAS STATION SIGN TO BE RELOCATED BY OTHERS

+36.93

207+41.49

PAVEMENT MARKING REMOVAL (EXISTING STOP BAR)

PROPOSED R.O.W.

EXISTING R.O.W.

+63.78

+07

+23

CONSTRUCTION LIMIT
STA. 212+19.22

REMOVE SIGN PANEL
(4 EA-TYPE 2 AND 1 EA-TYPE 1)

REMOVE SIGN PANEL (2 EA)

REMOVAL OF POLE FOUNDATION
REMOVE SIGN PANEL
(1 EA-TYPE 1 AND 1 EA-TYPE 2)

+36.61

+08.94

REMOVAL OF POLE FOUNDATION**
REMOVE SIGN PANEL
(1 EA-TYPE 2 AND 2 EA-TYPE 1)

REMOVE SKIP-DASH PAVEMENT MARKINGS

MEDIAN REMOVAL

CURB AND GUTTER REMOVAL

OGDEN AVENUE (US ROUTE 34)

97' R.O.W.

53'

44'

MATCHLINE STA 207+00
(SEE OGDEN AVE DETAIL SHEET)

STA. 100+00.00 ℄ PASQUINELLI DRIVE
STA. 208+06.48 ℄ OGDEN AVENUE (US 34)

EXISTING R.O.W.

EXISTING STONE BLOCK RETAINING WALL TO REMAIN

+46.81
27' 35.0' LT

+05.26
28' 35.0' LT

+27.85

REMOVE SIGN PANEL (1 EA)

FULL-DEPTH PAVEMENT REMOVAL (TYP)

REMOVE SIGN PANEL (1 EA)

CURB AND GUTTER REMOVAL (TYP)

EXISTING R.O.W.

PASQUINELLI DRIVE

80' R.O.W.

MATCHLINE STA 101+30 (SEE ABOVE)

REMOVE EXISTING FLAGSTONE PAVING (PAID FOR AS SIDEWALK REMOVAL); PROTECT EXISTING TREE

STA. 101+35
SEAL ABANDONED
MONITORING WELL

REMOVAL OF LIGHTING UNIT (NO SALVAGE)
REMOVAL OF POLE FOUNDATION
REMOVE SIGN PANEL (3 EA)

SIDEWALK REMOVAL (TYP)

-33.73

+64.47
54.0' RT

+95.22

38'

REMOVAL OF LIGHTING UNIT (NO SALVAGE)
REMOVAL OF POLE FOUNDATION
REMOVE SIGN PANEL (1 EA)

EXISTING R.O.W.

DRIVEWAY PAVEMENT REMOVAL (TYP)

+67.04
39.11' RT

+17.75
41.44' RT

+34.11
+38.61

51'

28'

24'

CONSTRUCTION LIMIT
STA. 107+24.23

N

SCALE IN FEET: 20 0 20 40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	13

CONTRACT NO. 63579
ILLINOIS FED. AID PROJECT

MATCHLINE STA 101+50
SEE SHEET 2 OF 2

101+48.46
32.0' RT
COMB. CONC. CURB & GUTTER, TYPE B-6.12

+46.81
27' C.E.
PCC DRIVEWAY PAVEMENT, 8"
12' R
5'
COMB. CONC. CURB & GUTTER, TYPE B-6.12
10' TRANSITION (TYP.) BETWEEN CC&G TYPE B-6.24 AND TYPE B-6.12 (PAID FOR AS CC&G TYPE B-6.24)
100+77.19; 20.0' LT
HMA PAVEMENT (FULL DEPTH), 9"
COMB. CONC. CURB & GUTTER, TYPE B-6.24
207+41.49
32.2' LT
207+71.49
83.0' LT
45' R
207+31.49
43.0' LT

PASQUINELLI DRIVE

101+28.40
45.0' RT
101+12.36
45.04' RT
10' TRANSITION (TYP.) BETWEEN CC&G TYPE B-6.24 AND TYPE B-6.12 (PAID FOR AS CC&G TYPE B-6.24)
100+91.00
55.0' RT
2-CENTERED CURVE, 50'-200', 0/S 10'
RETAINING WALL (APPROX. 270 SF) WITH HANDRAIL
208+77.35
66.50' LT
209+01.49
58.0' LT
209+02.00
56.2' LT
100+76.66
45.33' RT
208+98.91
44.60' LT

CONCRETE STEPS (REFER TO DETAILS)
PCC SIDEWALK, 5 INCH (TYP.)
COMB. CONC. CURB & GUTTER, TYPE B-6.24
PCC PAVEMENT, 9 1/2" (JOINTED)
PROPOSED R.O.W.
EXISTING R.O.W.
+51.49
58.0' LT
+19.13
46.42' LT
+63.78
52.59' LT
+19.22
36.14' LT

HMA PAVEMENT (FULL DEPTH), 9"
PCC PAVEMENT, 9 1/2" (JOINTED)
12'
REFER TO INTERSECTION ELEVATION DETAILS SHEET #20 FOR ADDITIONAL INFORMATION.
+36.64
+55.00
+61.20
+08.94
2'
24'
34'
53'
96' R.O.W.
43'
CONSTRUCTION LIMIT
STA. 212+19.22
PCC PAVEMENT, 9 1/2" (JOINTED)
CONCRETE MEDIAN, TYPE M-2 (SPECIAL)

MATCHLINE STA 207+00
(SEE OGDEN AVENUE DETAILS, SHEET 27)

OGDEN AVENUE (US ROUTE 34)

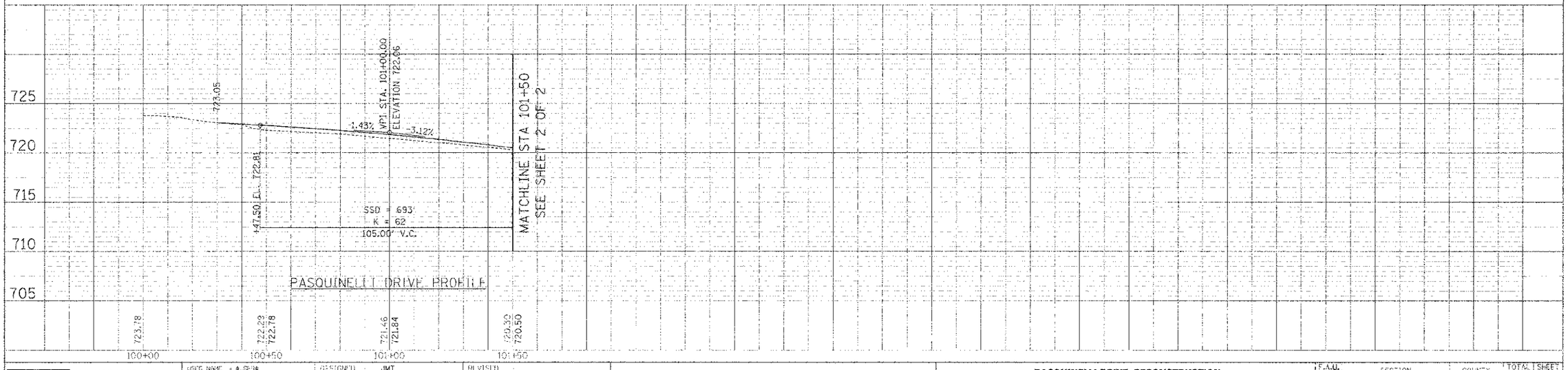
EXISTING R.O.W.
EXISTING R.O.W.

STA. 100+00.00 ℄ PASQUINELLI DRIVE
STA. 208+06.48 ℄ OGDEN AVE (US 34)

MIDDAUGH ROAD

N

20 0 20 40
SCALE IN FEET



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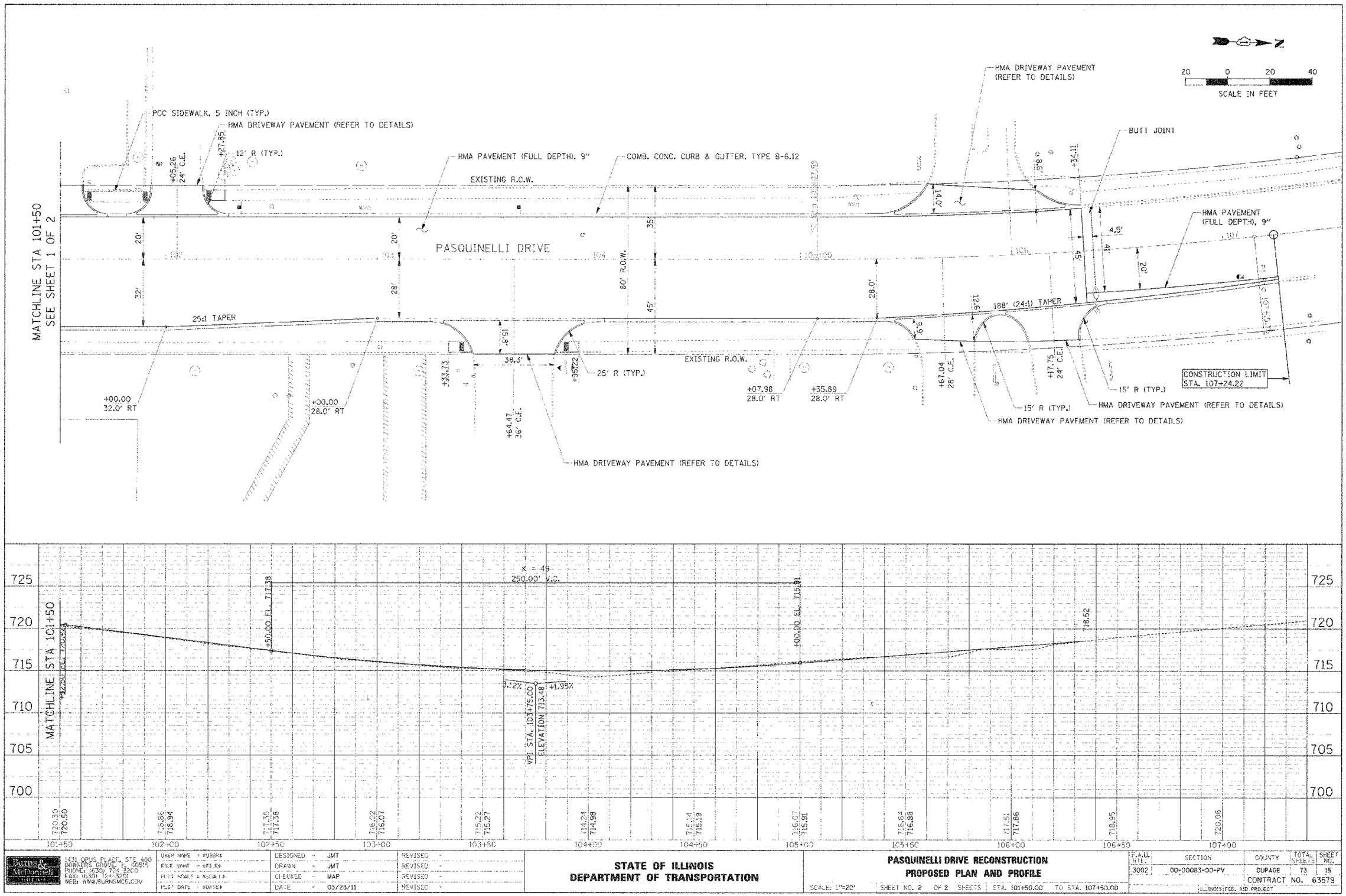
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
PROPOSED PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 207+00.00 TO STA. 212+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	03-00083-00-PV	DUPAGE	73	14
		CONTRACT NO. 63579		

ILLINOIS FED. AID PROJECT



Burns & McDonnell engineers	1431 OPUS PLACE, STE 400 DOWNERS GROVE, IL 60515 PHONE: (630) 724-3200 FAX: (630) 724-3201 WEB: WWW.BURNSMCD.COM	USER NAME = PJSENS FILE NAME = 0FILE0 PLOT SCALE = 1SCALE1 PLOT DATE = 0DATE0	DESIGNED - JMT DRAWN - JMT CHECKED - MAP DATE - 05/28/11	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
PROPOSED PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 101+50.00 TO STA. 107+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	15

CONTRACT NO. 63579
ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC GENERAL NOTES

ALL TRAFFIC CONTROL AND PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS, THE TRAFFIC CONTROL PLAN AND THE MUTCD.

THE STAGING PLAN SUGGESTED HEREIN SHALL NOT BE CHANGED BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL OF THE ENGINEER. IN THE EVENT OF ANY ADDITIONAL COSTS RESULTING FROM AN APPROVED CHANGE, NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR.

THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, TEMPORARY BARRIER WALLS AND PROTECTION NECESSARY FOR THE MAINTENANCE OF TRAFFIC AS NOTED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR MUST NOTIFY ALL EMERGENCY SERVICES (POLICE, FIRE, ETC.), LOCAL SCHOOL DISTRICTS AND LOCAL MUNICIPALITIES (VILLAGES, COUNTY, TOWNSHIPS) AND POST OFFICES A MINIMUM OF 72 HOURS IN ADVANCE OF ANY SIDE ROAD CLOSURES OR DETOURS, OR ANY OTHER WORK WHICH HAS THE POTENTIAL TO LIMIT EMERGENCY SERVICES' ACCESS TO THE PROJECT AREA. KNOWN LOCAL SERVICES INCLUDE:

WESTMONT FIRE DEPARTMENT -- (630) 981-6400
WESTMONT POLICE DEPARTMENT -- (630) 981-6300
WESTMONT PUBLIC WORKS DEPARTMENT -- (630) 981-6270
WESTMONT SCHOOL DISTRICT 201 -- (630) 468-8000

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE AND DE-WATERING ACTIVITIES TO AVOID FLOODING OF ADJACENT PROPERTIES OR STANDING WATER IN THE CONSTRUCTION SITE.

ALL WARNING SIGNS SHALL BE BLACK LEGEND AND BORDER ON ORANGE RETROREFLECTORIZED BACKGROUND UNLESS OTHERWISE SPECIFIED. ALL WARNING SIGNS SHALL BE 48" X 48".

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND COMMERCIAL ENTRANCES DURING CONSTRUCTION. A QUANTITY OF "AGGREGATE FOR TEMPORARY ACCESS" IS PROVIDED FOR THIS PURPOSE. TEMPORARY ACCESS CLOSURES WILL BE ALLOWED ONLY AT THE DIRECTION OF THE ENGINEER. GREEN "DRIVEWAY ENTRANCE" SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS AT ALL DRIVEWAYS; THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

ALL ADVANCE WARNING SIGNS FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

ALL TEMPORARY OR PERMANENT PAVEMENT MARKING PROPOSED WITHIN THE WORK AREA SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION PHASE CHANGE.

SOME SUBSTAGING MAY BE NECESSARY AT THE INTERSECTION OF OGDEN AVENUE AND PASQUINELLI DRIVE IN ORDER TO PROPERLY ACCOMMODATE TURNING VEHICLES. ALL PAVEMENT MARKING REQUIRED AS PART OF THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR THE PAY ITEM. ALL OTHER WORK (SUCH AS SIGNING, PLACEMENT AND MAINTENANCE OF BARRICADES, ETC.) SHALL BE INCIDENTAL TO "TRAFFIC CONTROL AND PROTECTION, SPECIAL."

CONSTRUCTION STAGING NOTES

STAGE 1

INSTALL TEMPORARY TRAFFIC SIGNAL. DEACTIVATE EXISTING TRAFFIC SIGNAL.

CONSTRUCT NEW STORM SEWER ALONG OGDEN AVENUE EAST OF STA. 210+50, USING DAY LANE CLOSURES AS NEEDED.

REMOVE EXISTING OGDEN AVENUE MEDIANS AS DIRECTED IN THE REMOVAL PLAN, AND REPLACE WITH NEW PAVEMENT, USING DAY LANE CLOSURES.

INSTALL TRAFFIC CONTROL AND TEMPORARY PAVEMENT MARKINGS FOR STAGE 2 CONSTRUCTION. INSTALL ALTERNATE ROUTE SIGNING FOR PASQUINELLI DRIVE. SHIFT TRAFFIC.

STAGE 2

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

CONSTRUCT NEW STORM SEWERS IN STAGE 2 WORK ZONE, USING SHORT-TERM DAY LANE CLOSURES AS NEEDED OR AS DIRECTED BY THE ENGINEER.

CONSTRUCT NEW WESTBOUND TURN LANE AND NORTH SIDE SIDEWALK.

CONSTRUCT NEW EAST HALF OF PASQUINELLI DRIVE. NOTE -- IT MAY BE NECESSARY TO SUBSTAGE CONSTRUCTION OF THE PASQUINELLI / OGDEN INTERSECTION.

INSTALL RELOCATED LIGHTING ALONG OGDEN AND PASQUINELLI.

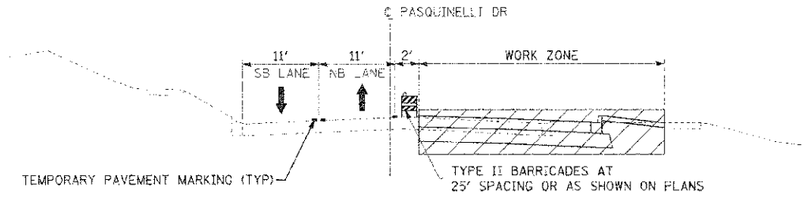
INSTALL TEMPORARY OR PERMANENT TRAFFIC SIGNAL EQUIPMENT FOR STAGE 3 TRAFFIC CONFIGURATION. INSTALL TRAFFIC CONTROL FOR STAGE 3 CONSTRUCTION. SHIFT TRAFFIC.

STAGE 3

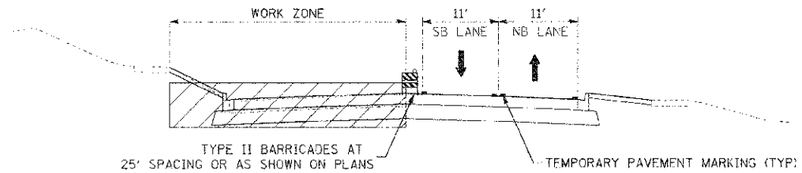
CONSTRUCT NEW WEST HALF OF PASQUINELLI DRIVE AND WEST SIDE SIDEWALK.

INSTALL AND ACTIVATE NEW TRAFFIC SIGNAL EQUIPMENT.

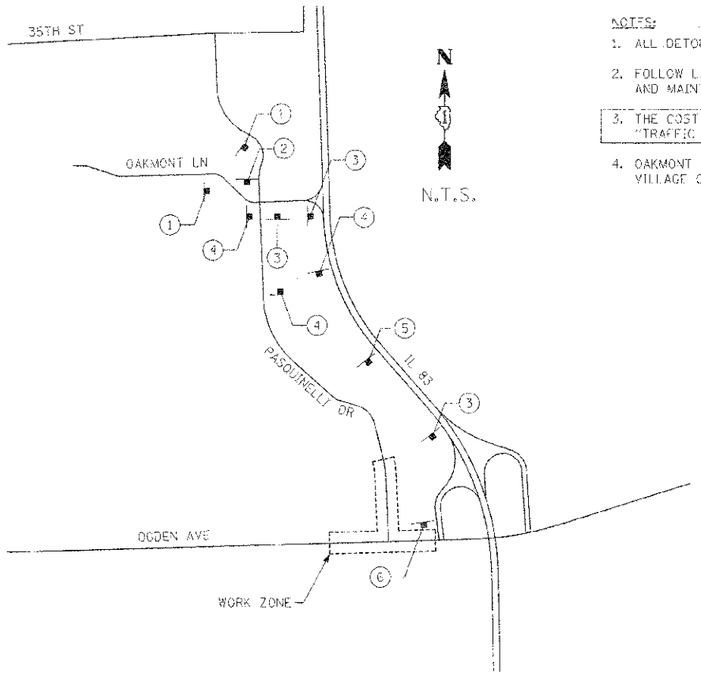
REMOVE STAGE 3 TRAFFIC CONTROL. CONSTRUCT HMA SURFACE COURSE. INSTALL PERMANENT PAVEMENT MARKINGS.



TYPICAL SECTION - STAGE 2 CONSTRUCTION
(PASQUINELLI DRIVE)



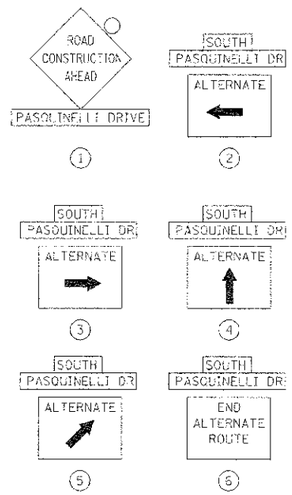
TYPICAL SECTION - STAGE 3 CONSTRUCTION
(PASQUINELLI DRIVE)



ALTERNATE ROUTE SIGNING PLAN

NOTES:

1. ALL DETOUR SIGNS SHALL BE IN ORANGE COLOR BACKGROUND WITH BLACK LETTERS.
2. FOLLOW LATEST MUTCD MANUAL AND IDOT STANDARDS FORALTERNATE ROUTE SIGNS AND MAINTENANCE OF TRAFFIC SIGNS.
3. THE COST OF THE SIGNING DEPICTED HEREIN SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR."
4. OAKMONT LANE AND PASQUINELLI DRIVE ARE UNDER THE JURISDICTION OF THE VILLAGE OF WESTMONT. ILLINOIS ROUTE 83 IS UNDER THE JURISDICTION OF IDOT.



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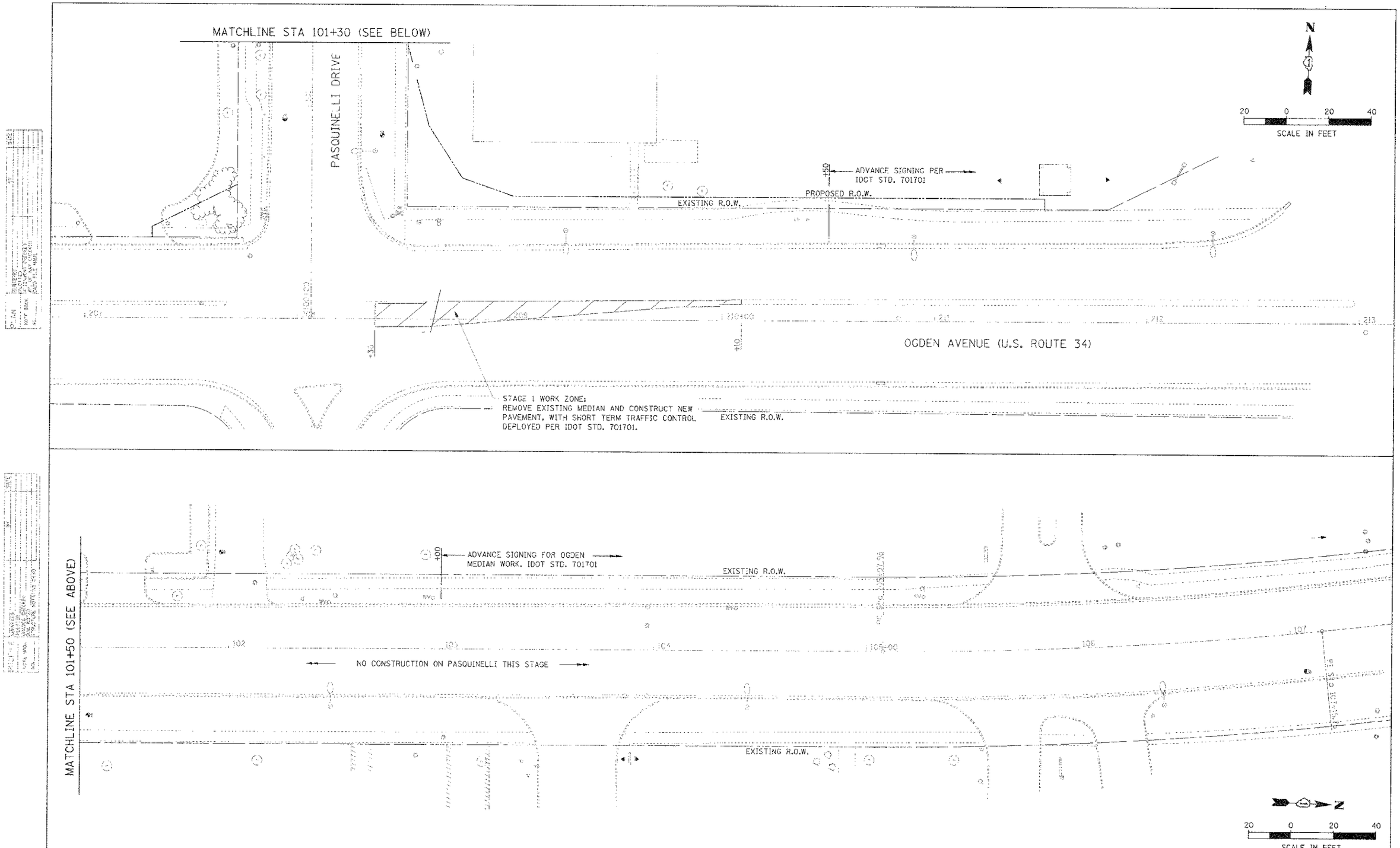
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
TRAFFIC CONTROL GENERAL NOTES AND TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
3002	00-00083-00-PV	DUPAGE	73	16
		CONTRACT NO. 63579		

ILLINOIS FED. AID PROJECT



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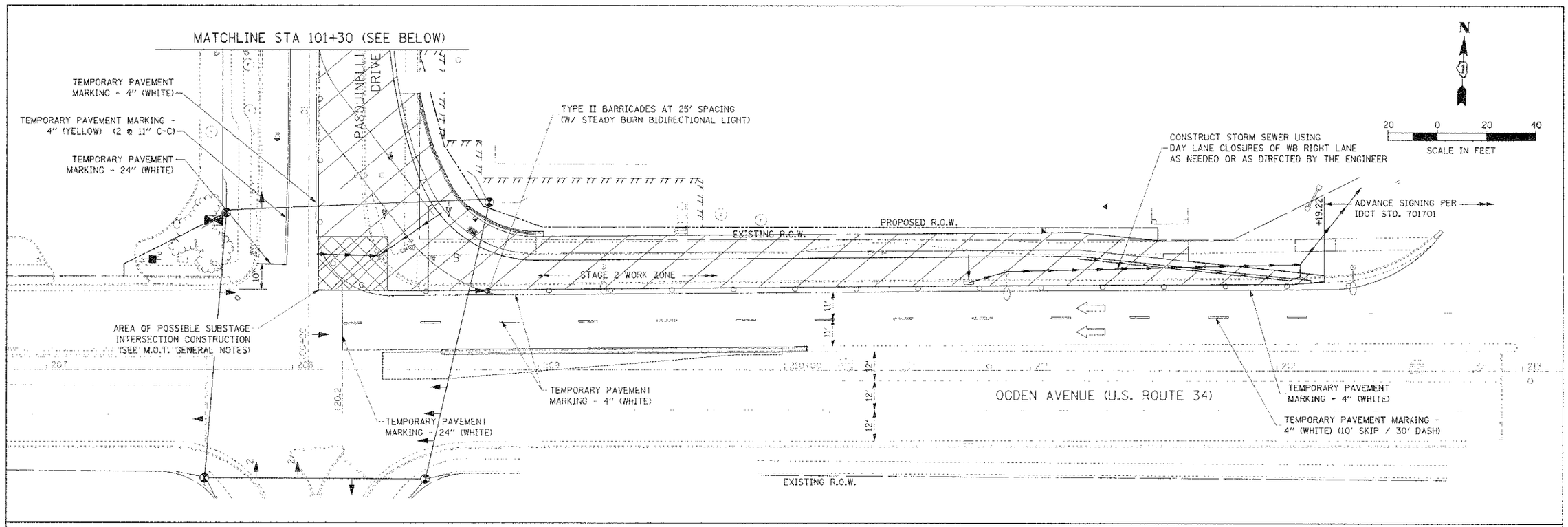
PLOT DATE = #DATE#	DATE - 03/28/11	REVISED -	

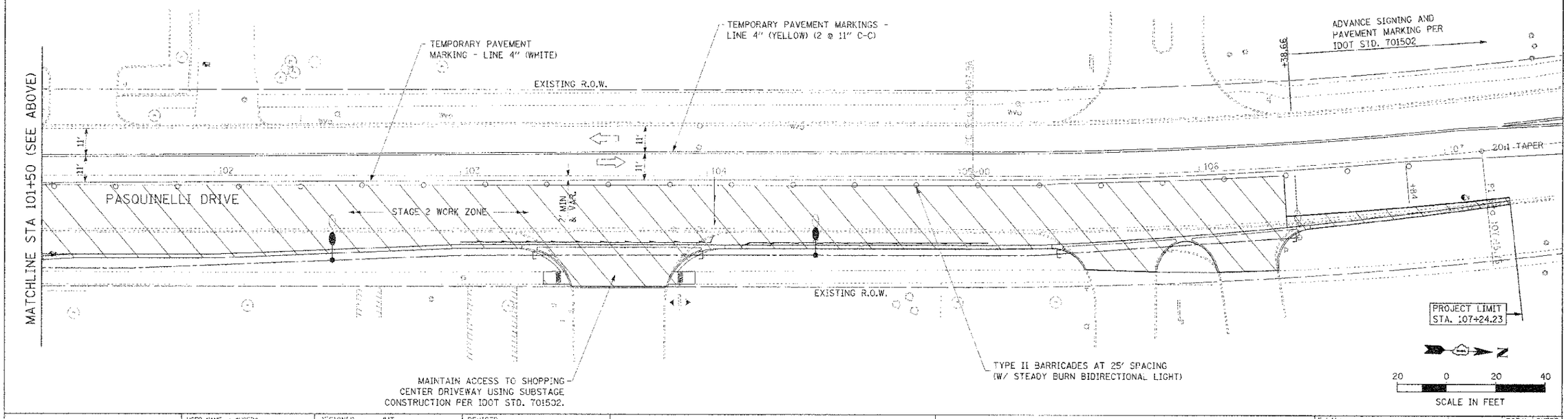
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
MAINTENANCE OF TRAFFIC – STAGE 1

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	17
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		





Barns & McDonnell
1431 OPUS PLACE, STE 100
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = %USER%	DESIGNED - JMT	REVISED -	
FILE NAME = %FILE%	DRAWN - JMT	REVISED -	
PLOT SCALE = %SCALE%	CHECKED - MAP	REVISED -	
PLOT DATE = %DATE%	DATE - 03/28/11	REVISED -	

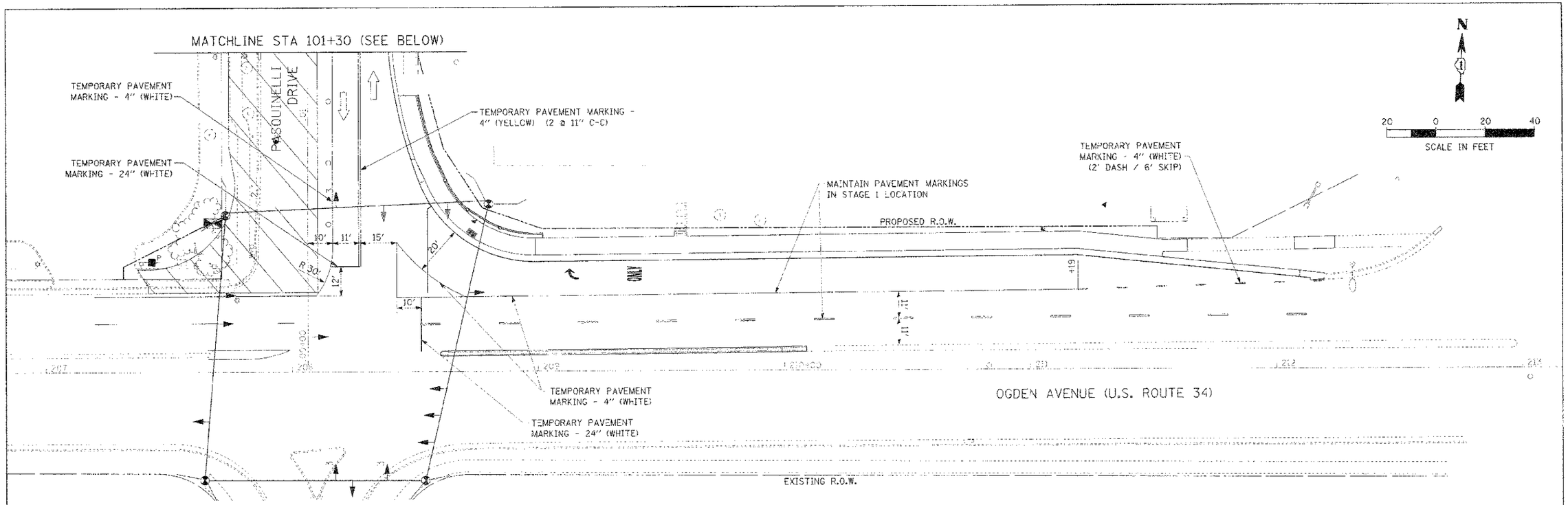
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

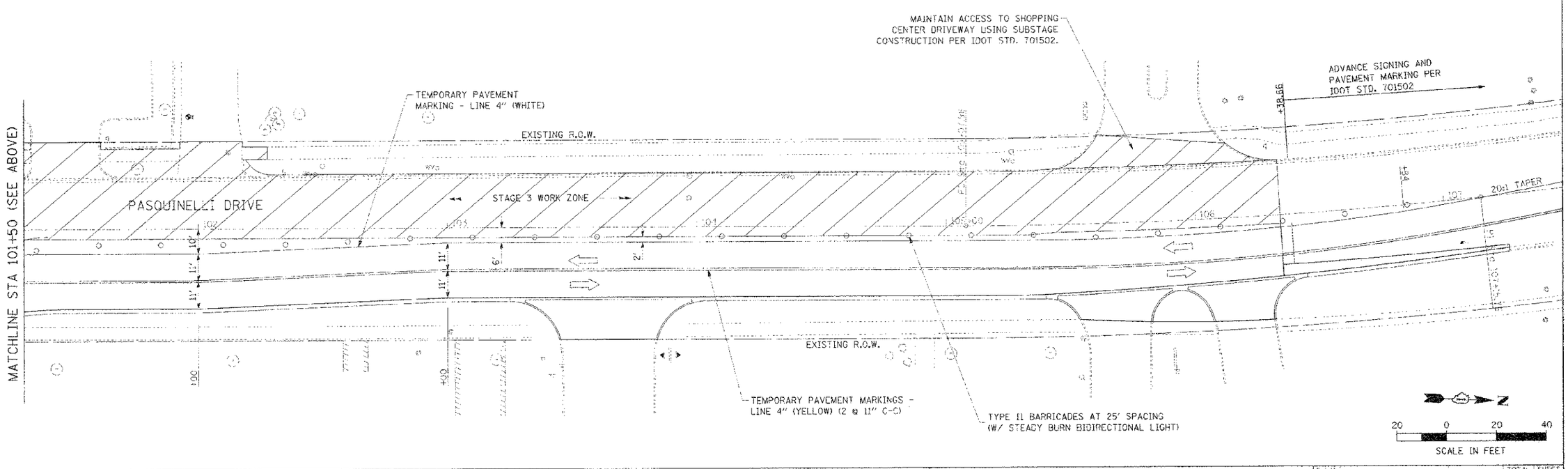
PASQUINELLI DRIVE RECONSTRUCTION
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	18

CONTRACT NO. 63579
ILLINOIS FED. AID PROJECT





Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.B.BNSMCD.COM

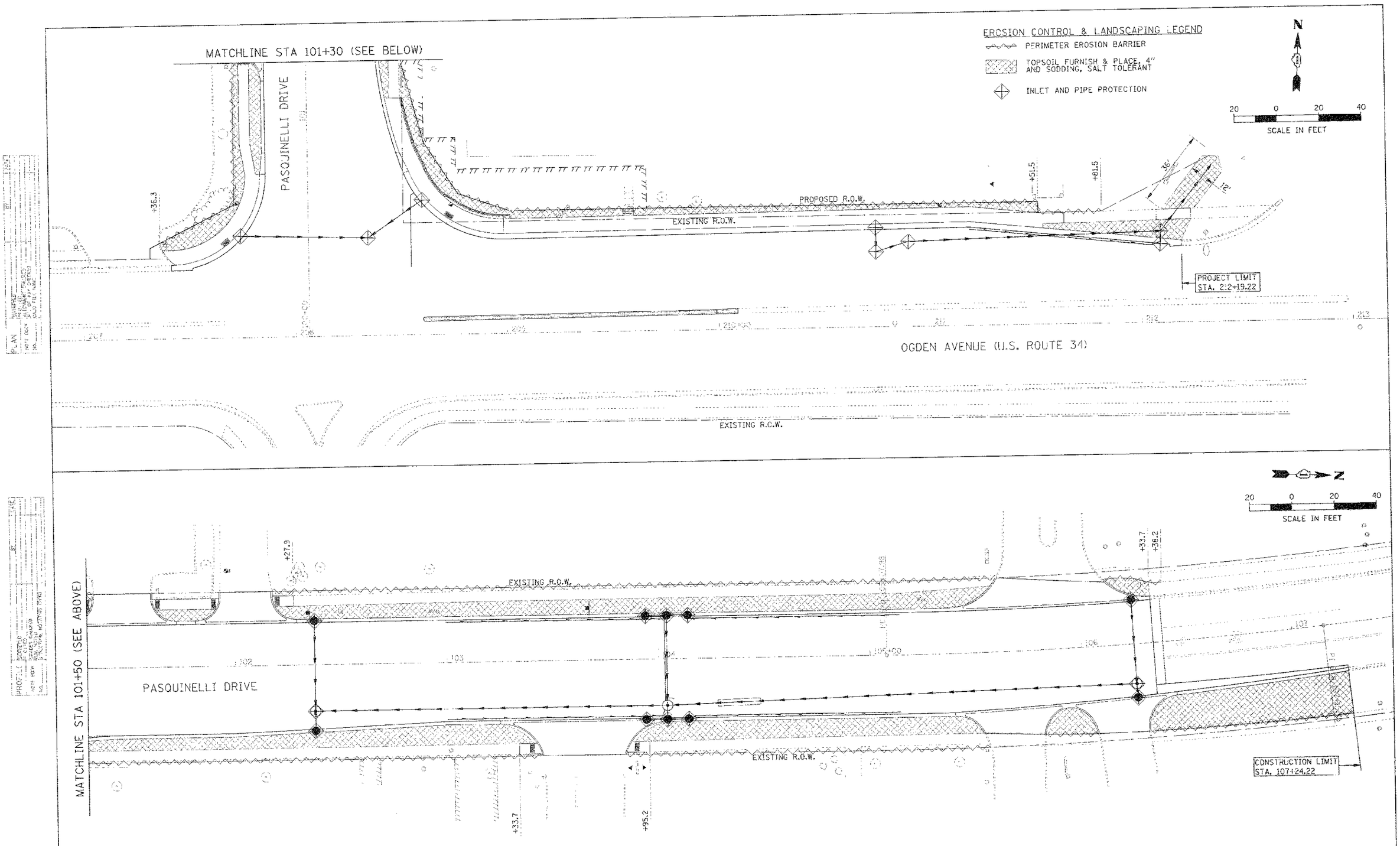
USER NAME = $USER$	DESIGNED - JMT	REVISED -	
FILE NAME = $FILE$	DRAWN - JMT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -	
PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
MAINTENANCE OF TRAFFIC – STAGE 3

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	19
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



Burns & McDonnell	1431 OPUS PLACE, STE 400 DOWNERS GROVE, IL 60515 PHONE: (630) 724-3200 FAX: (630) 724-3201 WEB: WWW.BURNSMCD.COM	USER NAME = %USER%	DESIGNED - JMT	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
		FILE NAME = %FILE%	DRAWN - JMT	REVISED -	
		PLOT SCALE = %SCALE%	CHECKED - MAP	REVISED -	
		PLOT DATE = %DATE%	DATE - 03/28/11	REVISED -	

PASQUINELLI DRIVE RECONSTRUCTION
EROSION CONTROL AND LANDSCAPING

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	20
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

DRAINAGE AND UTILITY GENERAL NOTES

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. DATUM UNLESS OTHERWISE NOTED.

THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR MUST CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL UTILITIES WHICH MAY IMPACT THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE MUST BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION MUST BE IMMEDIATELY REPAIRED IN ACCORDANCE WITH ARTICLES 107.20 AND 107.31 AND LR 105. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF ANY AND ALL SURFACE AND UNDERGROUND UTILITIES, EVEN THOUGH THEY MAY NOT BE IDENTIFIED ON THE PLANS.

THE CONTRACTOR MUST MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR MUST PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, INLETS, AND CATCH BASINS. THE CONTRACTOR MUST PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR MUST PROVIDE AND MAINTAIN A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE, INCLUDING PAVEMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

DURING CONSTRUCTION OPERATIONS, WHEN ANY LOOSE MATERIAL IS DEPOSITED IN DRAINAGE STRUCTURES AND THE FLOW OF WATER IS OBSTRUCTED, IT MUST BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) MUST BE FREE OF ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

THE CONTRACTOR SHALL PROTECT NEW DRAINAGE STRUCTURES FROM THE ENTRY OF ERODED SOILS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

STORM SEWER PLUGS SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PIPE REMOVAL ITEMS AND WILL NOT BE PAID SEPARATELY.

THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO ALL INLETS, CATCH BASINS, AND OPEN MANHOLES.

GRATES SHALL BE INSTALLED WITH THE VANES ORIENTED AS DIRECTED BY THE RESIDENT ENGINEER.

ALL TEMPORARY OR PERMANENT CONNECTIONS OF SEWERS AND UNDERDRAINS TO PROPOSED AND EXISTING DRAINAGE STRUCTURES, INCLUDING ANY NEW HOLES REQUIRED IN THE DRAINAGE STRUCTURE MUST BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED STORM SEWER OR PIPE UNDERDRAIN ITEM. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

STATION, OFFSET, AND RIM ELEVATION VALUES GIVEN FOR EXISTING STRUCTURES REPRESENT THE APPROXIMATE CENTER OF THE EXISTING CASTING.

STATION, OFFSET, AND RIM ELEVATION VALUES GIVEN FOR PROPOSED DRAINAGE STRUCTURES REPRESENT THE CENTER OF THE CASTING EXCEPT WHERE THE PROPOSED STRUCTURES ARE LOCATED AT THE CURB LINE. STATION, OFFSET, AND RIM ELEVATION VAUES GIVEN FOR PROPOSED DRAINAGE STRUCTURES AT THE CURB LINE ARE TO THE EDGE OF PAVEMENT.

TOP OF FRAME ELEVATIONS ON DRAINAGE STRUCTURES MUST BE MODIFIED TO MEET FINISHED SHOULDER AND CURB AND GUTTER FLOWLINE ELEVATIONS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL USE FLAT TOP SLABS IN LIEU OF CONICALLY TAPERED TOPS FOR MANHOLES AND CATCHBASINS WHEREVER NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES. FLAT SLAB TOPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE UNIT COST OF THE ASSOCIATED DRAINAGE STRUCTURES.

THE CONTRACTOR WILL TAKE CARE TO AVOID DAMAGE TO EXISTING WATER CONNECTIONS WHICH CROSS THE PATH OF THE PROPOSED STORM SEWER ON PASQUINELLI DRIVE. A QUANTITY OF WORK UNDER "ADJUSTING WATER SERVICE LINES" IS PROVIDED FOR THIS PURPOSE.

Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = $USER$	DESIGNED - AJB	REVISED -
FILE NAME = $FILE$	DRAWN - AJB	REVISED -
PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -
PLOT DATE = $DATE$	DATE 03/28/11	REVISED -

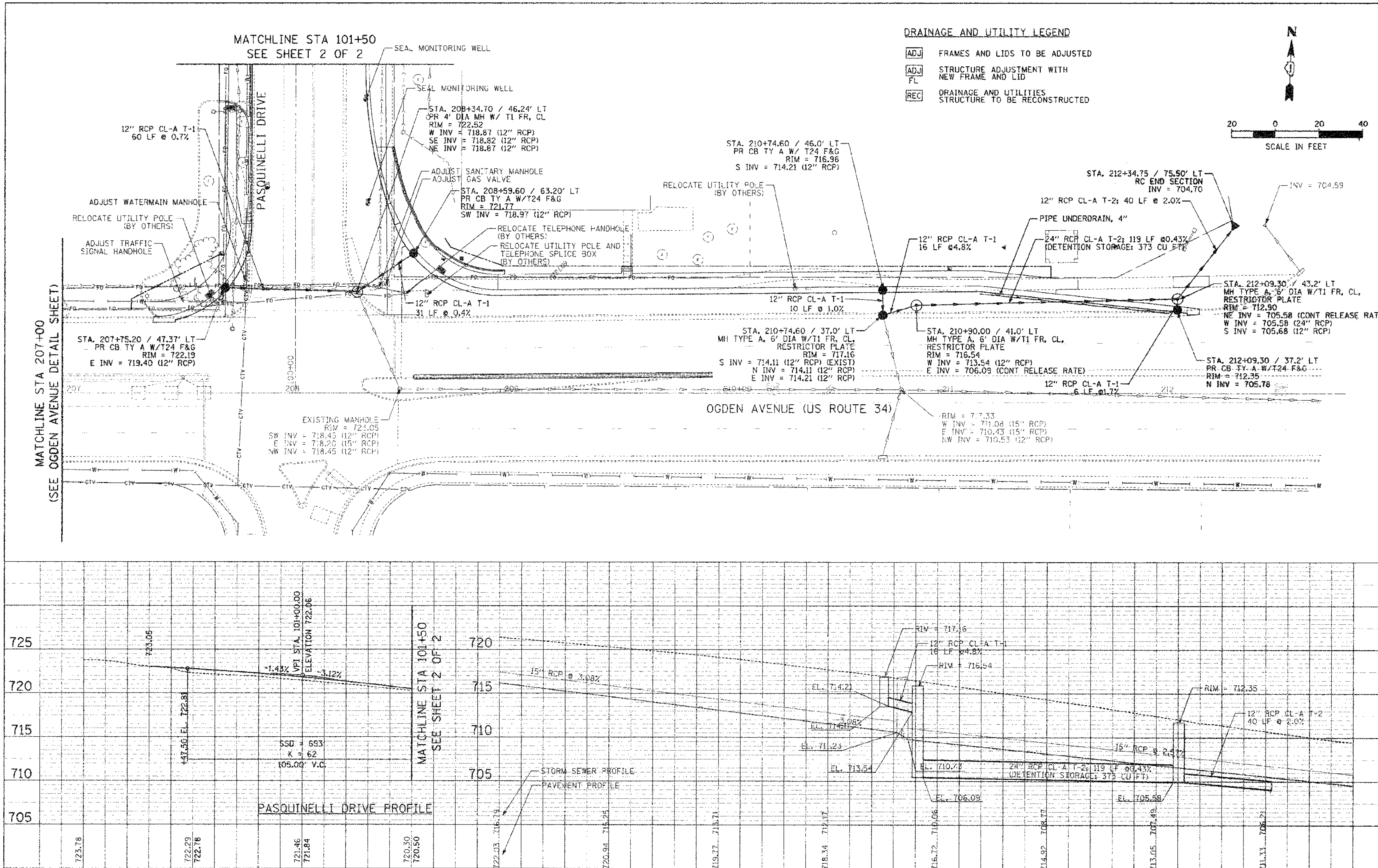
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
DRAINAGE GENERAL NOTES AND DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	21
		CONTRACT NO. 63579		

ILLINOIS FED. AID PROJECT



Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724 3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = $USER$	DESIGNED - AJB	REVISED -	
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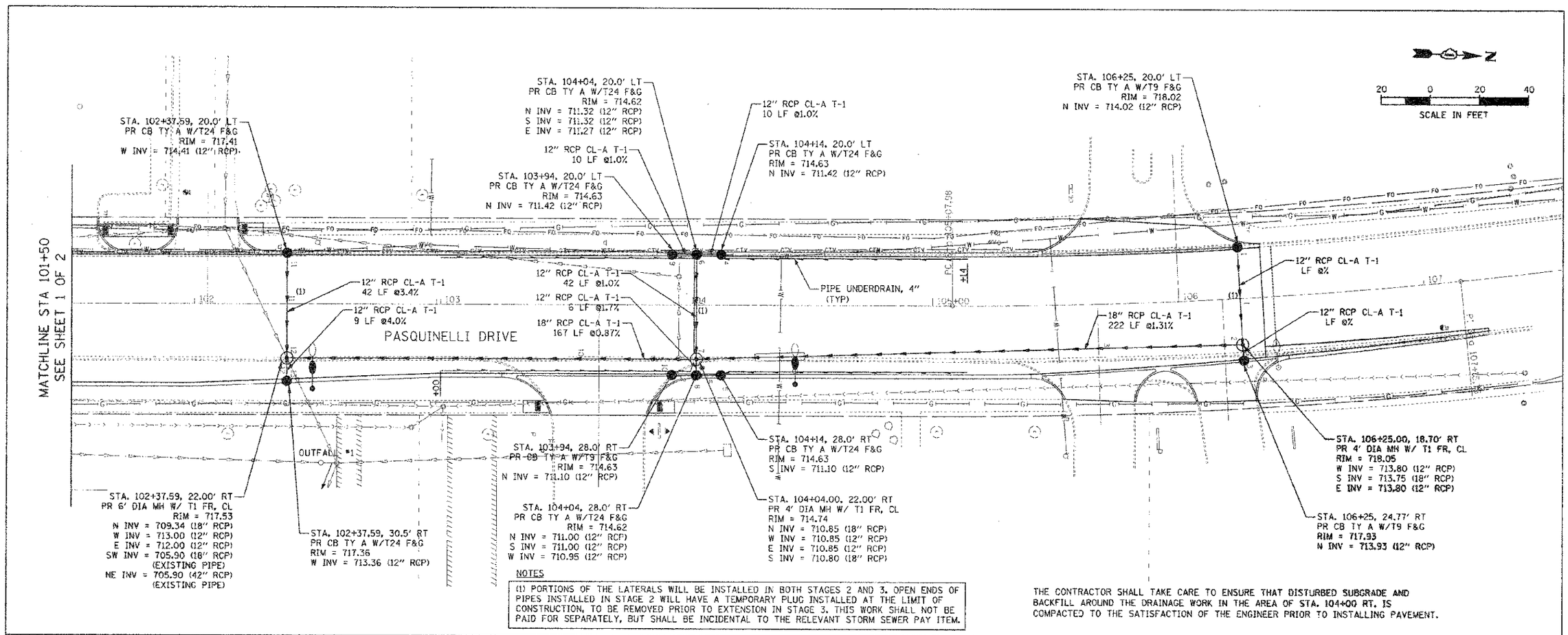
PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -	
PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 207+00.00 TO STA. 212+75.00

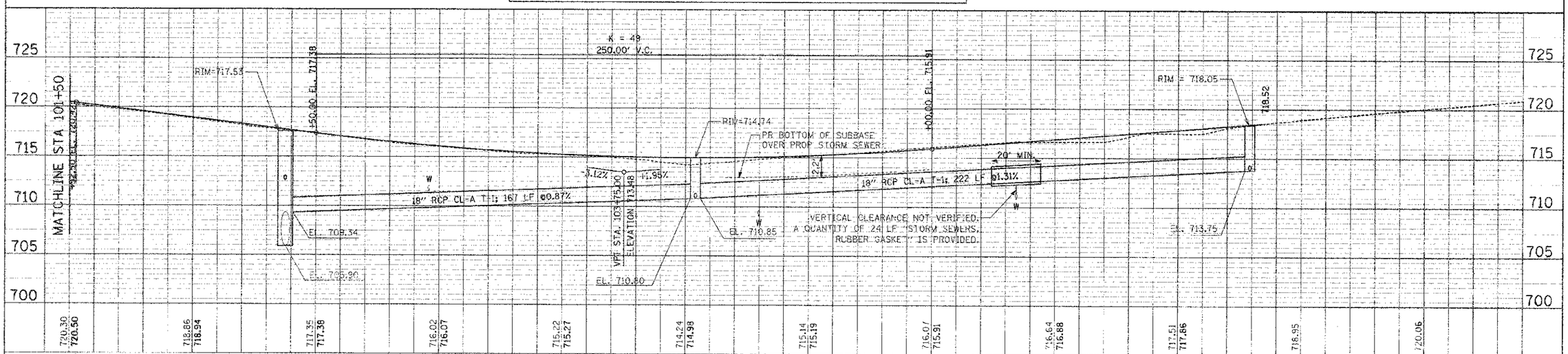
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	22
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



NOTES

(1) PORTIONS OF THE LATERALS WILL BE INSTALLED IN BOTH STAGES 2 AND 3. OPEN ENDS OF PIPES INSTALLED IN STAGE 2 WILL HAVE A TEMPORARY PLUG INSTALLED AT THE LIMIT OF CONSTRUCTION, TO BE REMOVED PRIOR TO EXTENSION IN STAGE 3. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE RELEVANT STORM SEWER PAY ITEM.

THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT DISTURBED SUBGRADE AND BACKFILL AROUND THE DRAINAGE WORK IN THE AREA OF STA. 104+00 RT. IS COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO INSTALLING PAVEMENT.



Burns & McDonnell
14431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-1201
WEB: WWW.BURNSMCD.COM

USER NAME = #USER#	DESIGNED - JMT	REVISED -
FILE NAME = #FILE#	DRAWN - JMT	REVISED -
PLOT SCALE = #SCALE#	CHECKED - MAP	REVISED -
PLOT DATE = #DATE#	DATE - 03/28/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 101+50.00 TO STA. 107+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	23
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

PART OF THE E. 1/2 OF NW 1/4 SEC. 2, T. 38 N., R 11 E. OF THE THIRD P.M., DOWNERS GROVE NORTH TWP., DUPAGE COUNTY, ILLINOIS

STATE OF ILLINOIS
SS
COUNTY OF DUPAGE

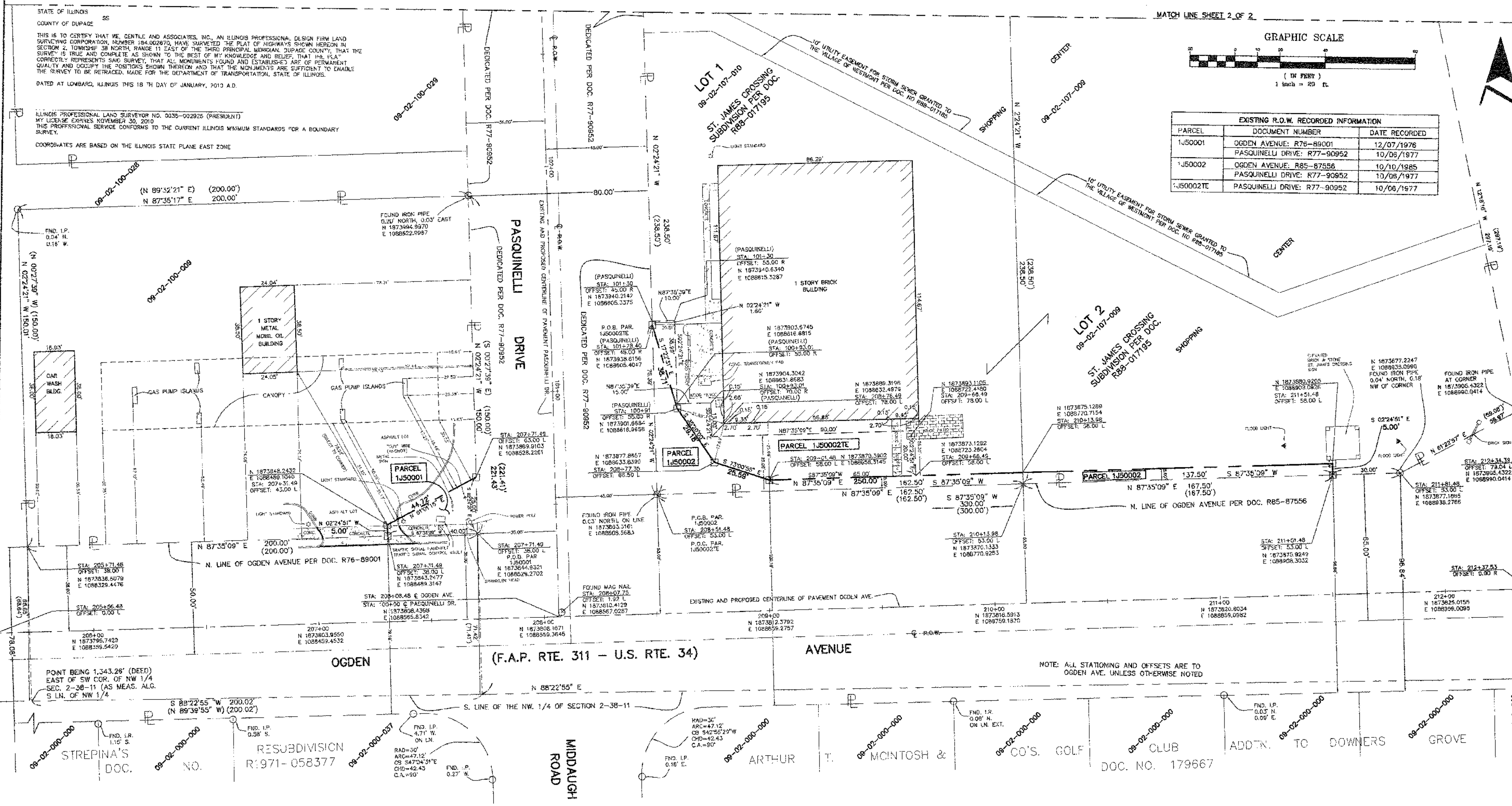
THIS IS TO CERTIFY THAT WE, GENTILE AND ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184.002670, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 2, TOWNSHIP 38 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, DUPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LOMBARD, ILLINOIS THIS 18 TH DAY OF JANUARY, 2010 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 0035-002925 (PRESIDENT)
MY LICENSE EXPIRES NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE EAST ZONE

EXISTING R.O.W. RECORDED INFORMATION		
PARCEL	DOCUMENT NUMBER	DATE RECORDED
1J50001	OGDEN AVENUE: R76-89001	12/07/1976
	PASQUINELLI DRIVE: R77-90952	10/06/1977
1J50002	OGDEN AVENUE: R85-87556	10/10/1985
	PASQUINELLI DRIVE: R77-90952	10/06/1977
1J50002TE	PASQUINELLI DRIVE: R77-90952	10/06/1977



6	3/03/11	PER IDOT REVIEW COMMENTS OF 3/01/11 (ADD IMPRVMTS. W/IN 20' ENV.)	VAF
5	2/15/11	PER IDOT REVIEW COMMENTS OF 2/14/11	VAF
4	1/20/11	REMOVE PARCEL 1J50003 (COMBINE WITH 0002) PER IDOT REVIEW COMMENTS	VAF
3	1/13/11	TEMP. ESMT. # CHANGED, TITLEBLK. REV., PER IDOT REVIEW COMMENTS	VAF
2	10/19/10	PAR. #S & JOB # CHANGED PER 10/13/10 REQUEST BY IDOT REVIEW	VAF
1	10/05/10	PER IDOT REVIEW COMMENTS DATED JULY 21, 2010	VAF

R.O.W. PLAT — MADE: CHECKED: INKED: NOTEBOOK NO: — BY — DATE

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
129.32' MEASURED DIMENSION
(129.32') RECORDED DIMENSION
N 87°35'17" E MEASURED BEARING
(N 89°32'21" E) RECORDED BEARING
EXISTING BUILDING
SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
"MAG" NAIL FOUND OR SET
5/8" REBAR SET

T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.

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

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S NUMBER.

M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

GENTILE & ASSOCIATES, INC.
PROFESSIONAL LAND SURVEYORS
550 E. ST. CHARLES PLACE
LOMBARD, ILLINOIS 60148
PHONE (630) 916-6262
FAX (630) 916-6264

ORDER NO.: 19704-09 IDOT
PREPARED FOR: BURNS & MCDONNELL ENGINEERING

PARCEL NUMBER	OWNER	TOTAL HOLDINGS	PART TAKEN	AREA IN EXISTING R.O.W.	REMAINDER AREA	EASEMENT AREA	EASEMENT PURPOSE	PERMANENT INDEX	PROPERTY ACQUIRED BY
1J50001	MOBIL OIL CORPORATION n/k/a ExxonMobil OIL CORPORATION	30,001 sq.ft. 0.689 acres	500 sq.ft. 0.014 acres	N/A	29,401 sq.ft. 0.675 acres	N/A	N/A	09-02-100-009	
1J50002	INLAND REAL ESTATE LB I LLC	199,062 sq.ft. 4.570 acres	2,448 sq.ft. 0.056 acres	N/A	196,614 sq.ft. 4.514 acres	2,096 sq.ft. 0.048 acres	TEMPORARY CONSTRUCTION EASEMENT	09-02-107-009 09-02-107-010	

CONTRACT NO. 63579 SHEET 24 OF 73

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 311 – (U. S. 34) – OGDEN AVENUE
AT PASQUINELLI DRIVE

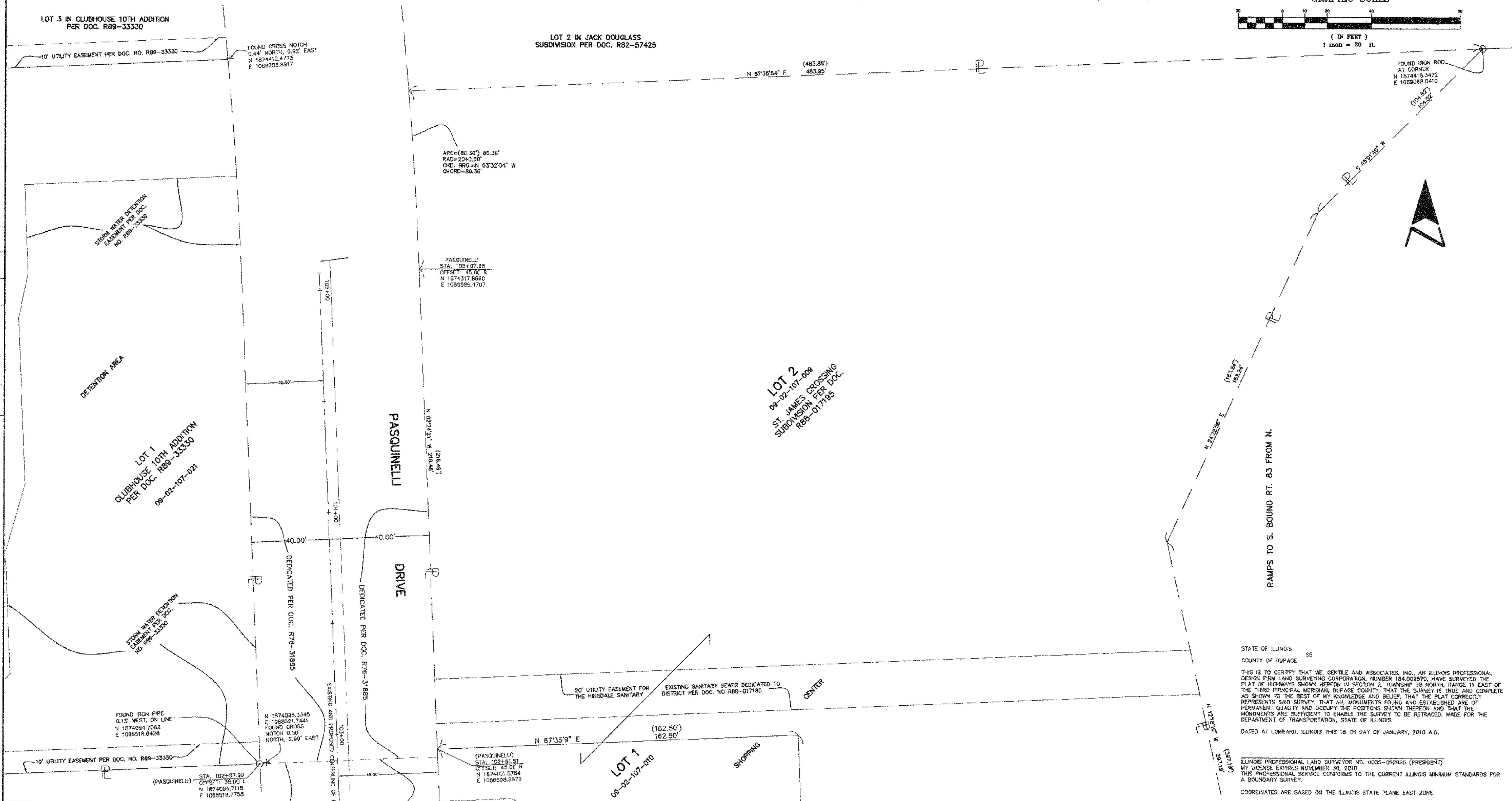
SECTION	00-0083-00-PV	DUPAGE COUNTY	
PROJECT	M-8003(748)	JOB NO.	R-91-010-10
STATION	205+56.48	TO STATION	212+37.53
SCALE: 1" = 20'		SHEET 2 OF 3	

RETURN TO: BUREAU OF LAND ACQUISITION
201 WEST CENTER CT.
SCHAUMBURG, ILLINOIS 60196

ROUTE: OGDEN AVENUE/PASQUINELLI DRIVE SECTION: 00-0083-00-PV COUNTY: DUPAGE JOB NO.: R-91-010-10

RECORDING: RECORDED ON AS DOCUMENT NO.

PART OF THE E. 1/2 OF NW 1/4 SEC. 2, T. 38 N., R 11 E. OF THE THIRD P.M., DOWNERS GROVE NORTH TWP., DUPAGE COUNTY, ILLINOIS



STATE OF ILLINOIS
SS
COUNTY OF DUPAGE

THIS IS TO CERTIFY THAT WE, GENTILE AND ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184.002870, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 2, TOWNSHIP 38 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, DUPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LOMBARD, ILLINOIS THIS 18 TH DAY OF JANUARY, 2010 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 0035-002925 (PRESIDENT)
MY LICENSE EXPIRES NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE EAST ZONE

R.O.W. PLAT	NOTEBOOK NO:	MADE: CHECKED: INKED:	BY	DATE

LEGEND

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

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE

▨ EXISTING BUILDING

129.32' MEASURED DIMENSION
(129.32') RECORDED DIMENSION

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL FOUND OR SET
- + CUT CROSS FOUND OR SET
- ■ 4" x 4" CONCRETE RIGHT OF WAY MONUMENT FOUND
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTE: ALL STATIONING AND OFFSETS ARE TO OGDEN AVE. UNLESS OTHERWISE NOTED

PREPARED FOR: BURNS & MCDONNELL ENGINEERING
ORDER NO.: 19704-09 IDOT

GENTILE & ASSOCIATES, INC.
PROFESSIONAL LAND SURVEYORS
550 E. ST. CHARLES PLACE
LOMBARD, ILLINOIS 60148
PHONE (630) 916-6262
FAX (630) 916-6264

NO.	REVISION DATE	REVISION	MADE BY
4	1/20/11	REMOVE PARCEL 1J50003 (COMBINE WITH 0002) PER IDOT REVIEW COMMENTS	VAF
3	1/13/11	TEMP. ESMT. # CHANGED, TITLEBLK. REV., PER IDOT REVIEW COMMENTS	VAF
2	10/19/10	PAR. #S & JOB # CHANGED PER 10/13/10 REQUEST BY IDOT REVIEW	VAF
1	10/05/10	PER IDOT REVIEW COMMENTS DATED JULY 21, 2010	VAF

CONTRACT NO. 63579 SHEET 25 OF 73

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 311 – (U. S. 34) – OGDEN AVENUE
AT PASQUINELLI DRIVE

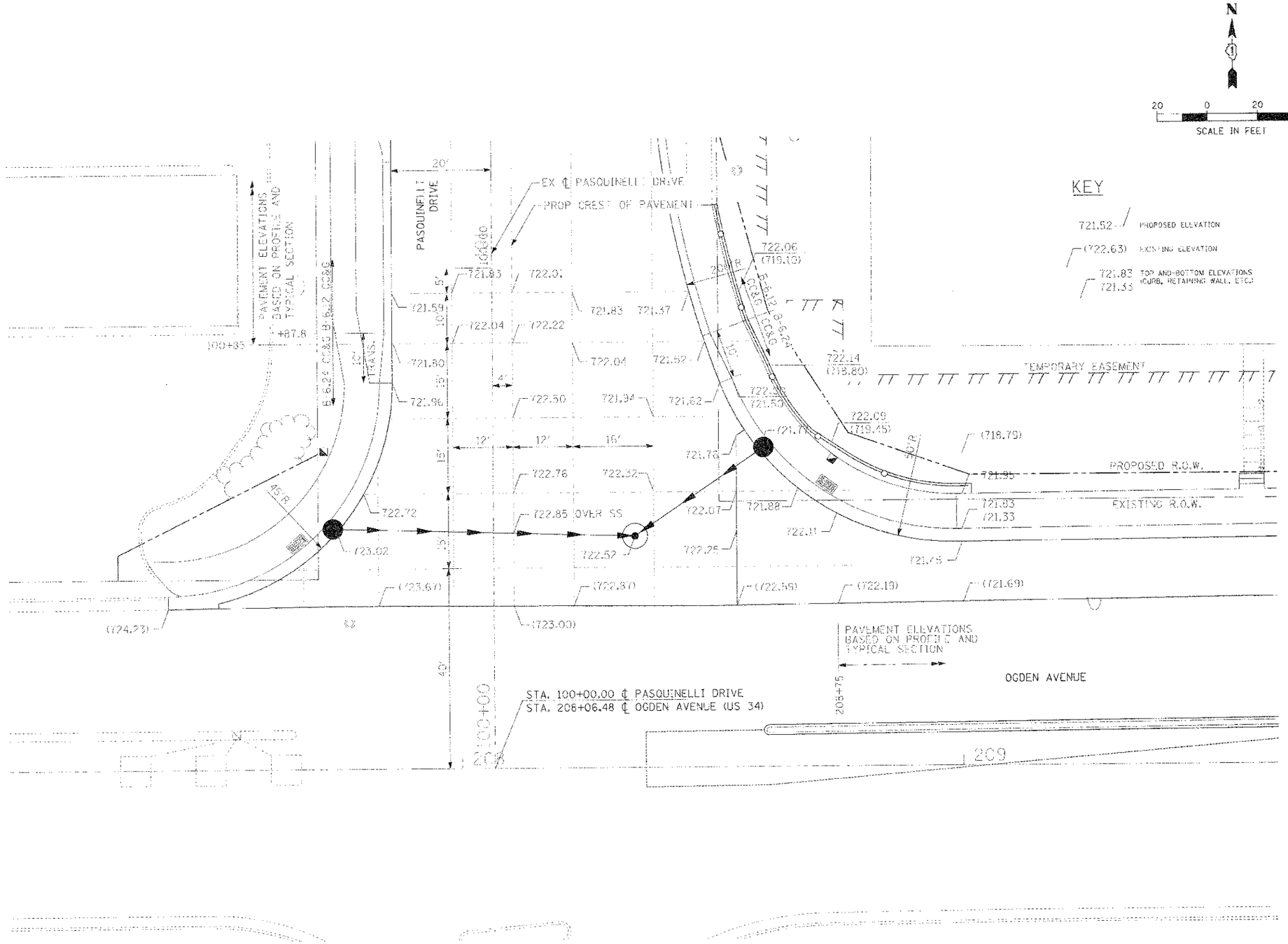
SECTION	00-0083-00-PV	DUPAGE COUNTY	
PROJECT	M-8003(748)	JOB NO.	R-91-010-10
STATION	205+56.48	TO STATION	212+37.53
SCALE: 1" = 20'		SHEET 2 OF 2	

RETURN TO: BUREAU OF LAND ACQUISITION
201 WEST CENTER CT.
SCHAUMBURG, ILLINOIS 60196

ROUTE: OGDEN AVENUE/PASQUINELLI DRIVE   SECTION: 00-0083-00-PV   COUNTY: DUPAGE   JOB NO.: R-91-010-10

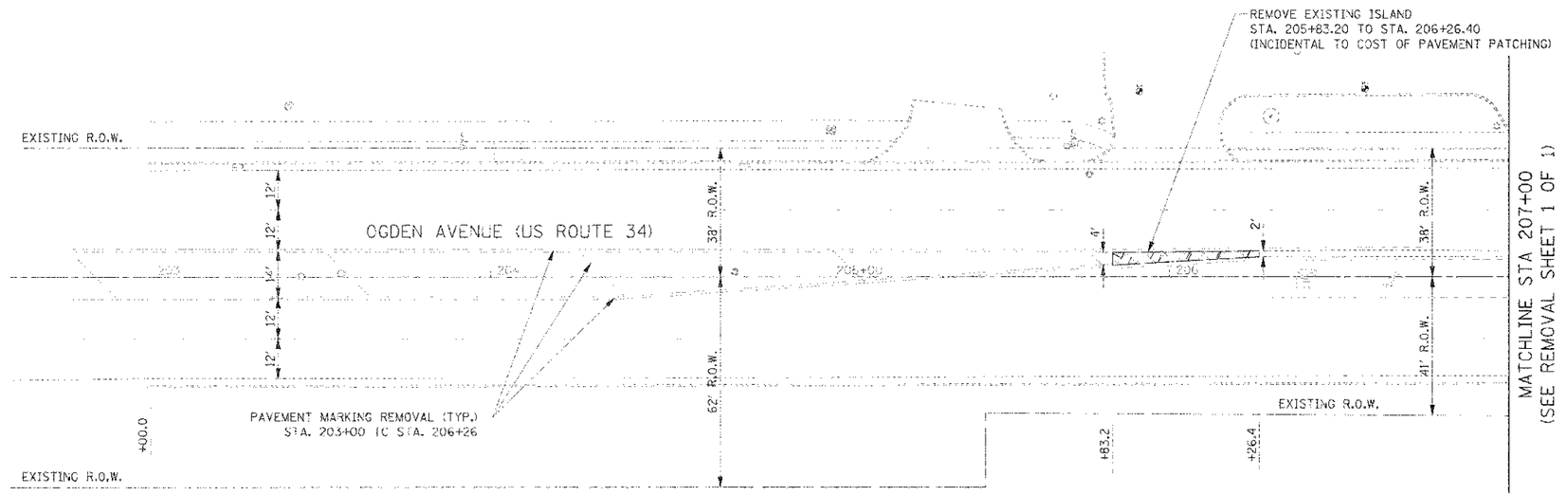
RECORDING: RECORDED ON

AS DOCUMENT NO.

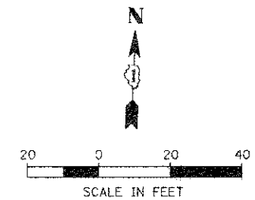


Burns & McDonnell	USER NAME = %USER%	DESIGNED - MAP	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PASQUINELLI DRIVE RECONSTRUCTION ELEVATION DETAILS – OGDEN/PASQUINELLI INTERSECTION**
1431 OPUS PLACE, STE 400 DOWNERS GROVE, IL 60515 PHONE (630) 724-3200 FAX (630) 724-3201 WEB: WWW.BURNSMCD.COM	FILE NAME = %FILE%	DRAWN MAP	REVISED -		SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.
	PLOT SCALE = %SCALE%	CHECKED MM	REVISED -		
	PLOT DATE = %DATE%	DATE 03/28/11	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-CC063-00-PV	DUPAGE	73	26
		CONTRACT NO. 63579		
		ILLINOIS F.A.U. AID PROJECT		

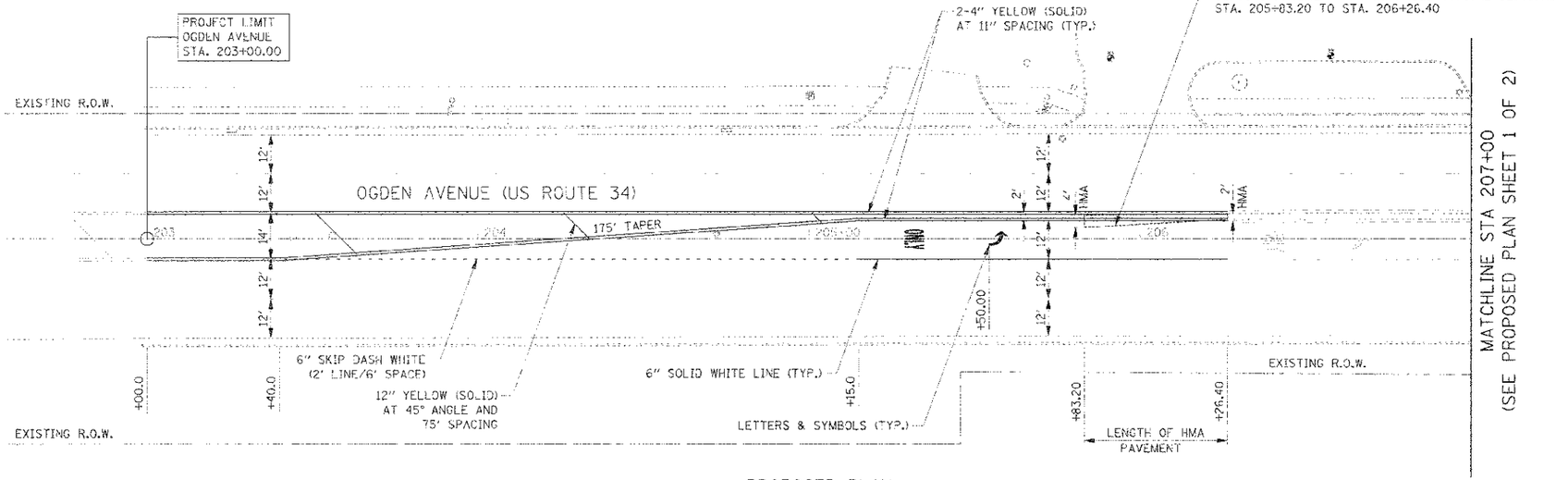


REMOVAL PLAN
OGDEN AVENUE MEDIAN

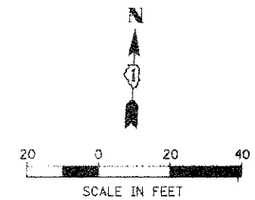


NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
   PREFORMED PLASTIC PAVEMENT MARKINGS SHALL BE USED ON PROPOSED PCC PAVEMENT.



PROPOSED PLAN
OGDEN AVENUE MEDIAN



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USER NAME = ACOSTA	DESIGNED - JMT	REVISED -	
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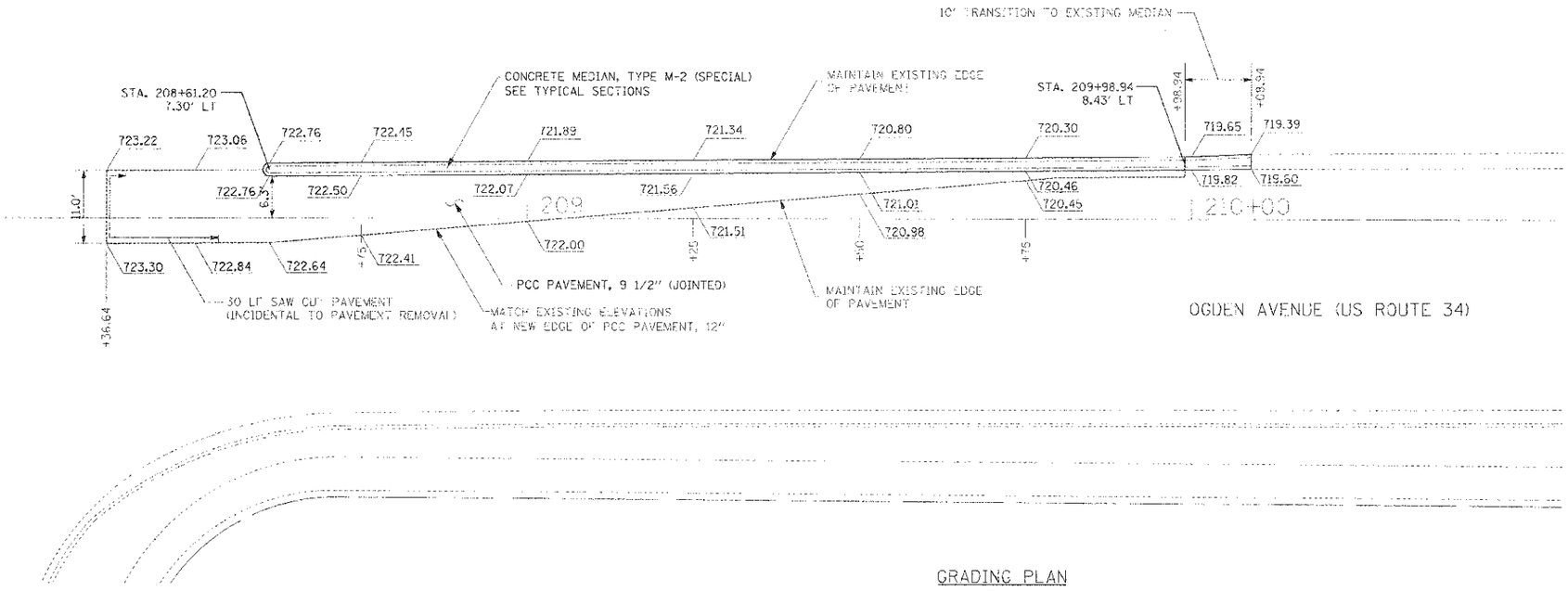
PLOT DATE = 3/28/11	DATE 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

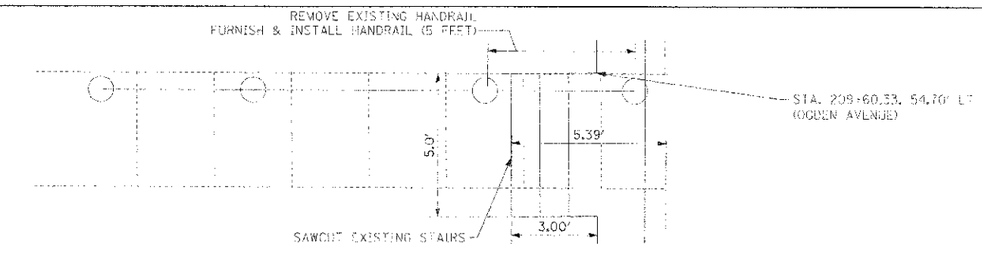
PASQUINELLI DRIVE RECONSTRUCTION
OGDEN AVENUE – WEST MEDIAN DETAILS

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

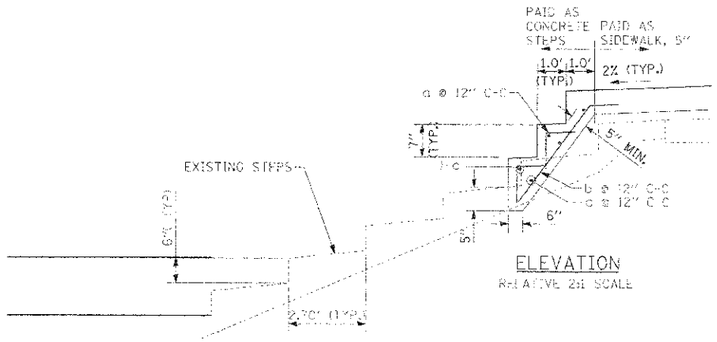
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	27
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			



GRADING PLAN
OGDEN AVENUE MEDIAN



PLAN

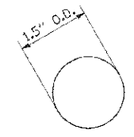


ELEVATION
RELATIVE 2:1 SCALE

BAR CHART

SHAPE / SIZE	LENGTH	COUNT
a #3	1.6'	8
b #4	4.0'	4
c #4	4.0'	5

CONCRETE STEPS DETAILS



HANDRAIL
TYPICAL SECTION

HANDRAIL NOTES

REMOVAL OF EXISTING HANDRAIL, AS SHOWN IN THE PLANS, SHALL BE INCIDENTAL TO "PIPE HANDRAIL."

HANDRAIL WILL CONSIST OF CIRCULAR CROSS-SECTION TUBULAR SECTIONS, AS SHOWN AT LEFT.

HANDRAIL WILL BE FURNISHED AND INSTALLED PER THE APPROPRIATE SECTIONS OF ARTICLE 509 OF THE STANDARD SPECIFICATIONS.

AFTER INSTALLATION IS COMPLETE, HANDRAIL WILL BE PAINTED BLACK. WORK WILL BE COMPLETED PER ARTICLE 506 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCIDENTAL TO "PIPE HANDRAIL."

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USER NAME = %USER%	DESIGNED - JMT	REVISED -	
CELL NAME = $CELL%	DRAWN - JR	REVISED -	
PLOT SCALE = %SCALE%	CHECKED - MAP	REVISED -	
PLOT DATE = %DATE%	DATE - 02/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

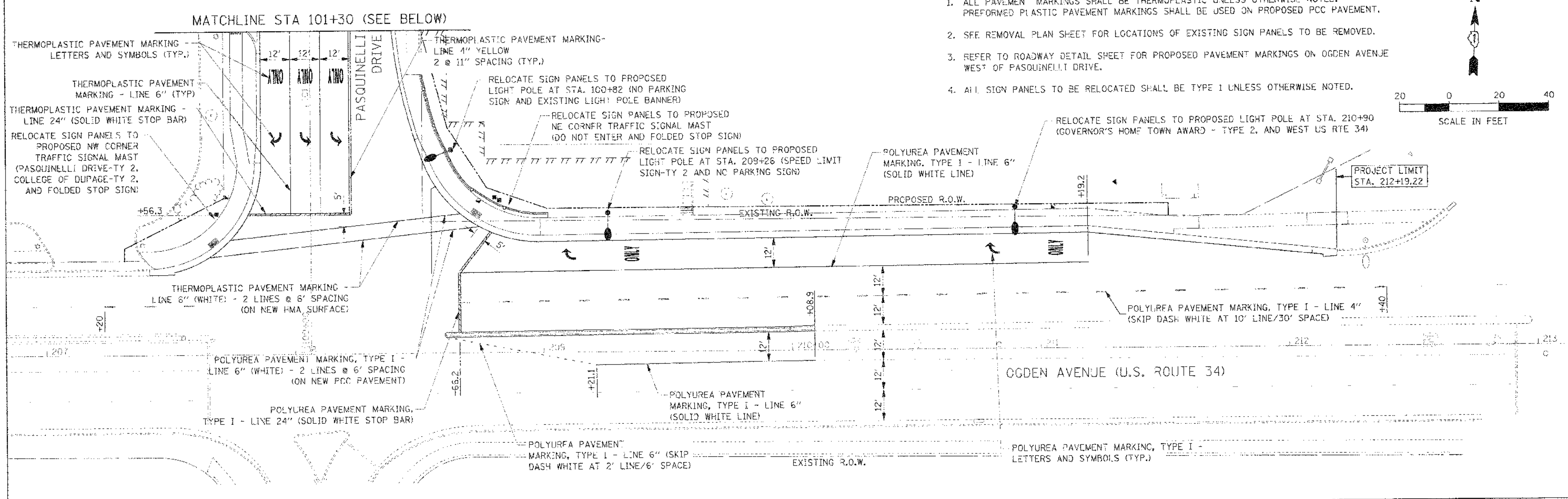
PASQUINELLI DRIVE RECONSTRUCTION
ROADWAY DETAILS

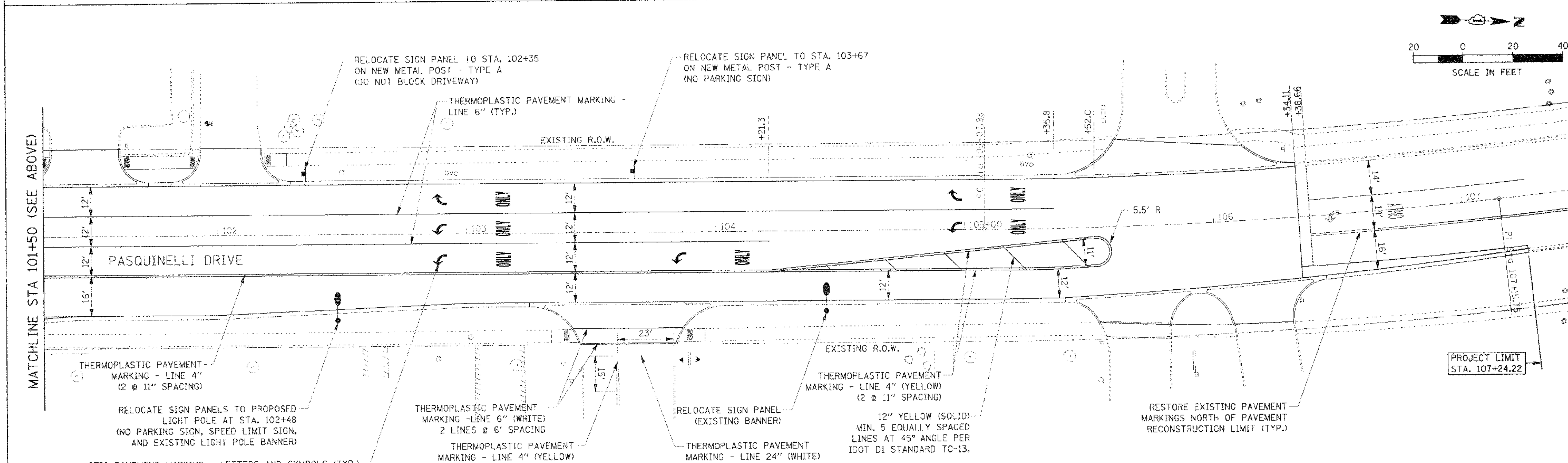
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
3002	00-00083-00-PV	DUPAGE	73	28
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. PREFORMED PLASTIC PAVEMENT MARKINGS SHALL BE USED ON PROPOSED PCC PAVEMENT.
2. SEE REMOVAL PLAN SHEET FOR LOCATIONS OF EXISTING SIGN PANELS TO BE REMOVED.
3. REFER TO ROADWAY DETAIL SHEET FOR PROPOSED PAVEMENT MARKINGS ON OGDEN AVENUE WEST OF PASQUINELLI DRIVE.
4. ALL SIGN PANELS TO BE RELOCATED SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.





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USER NAME = $USER$	DESIGNED - JMT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PASQUINELLI DRIVE RECONSTRUCTION PAVEMENT MARKING AND SIGNING
FILE NAME = $FILE$	DRAWN - JMT	REVISED -		
PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -		
PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -		SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 100+00.00 TO STA. 107+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	29
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET			
COMMUNICATIONS CABINET	R		
MASTER CONTROLLER			
MASTER MASTER CONTROLLER			
UNINTERRUPTIBLE POWER SUPPLY	R		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R		P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R		P
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R		
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE			
SIGNAL HEAD			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R		P
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R		S
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R		M
VIDEO DETECTION CAMERA	R		V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R		
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CND
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	R		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION			R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE			
SIGNAL FACE			R, Y, G; G, Y, G
SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD			R, Y, G, P; G, Y, G, P
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL			W
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER			C, D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	PR
DENOTES NUMBER OF CONDUCTORS. ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		I	I
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		G	G
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCI		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMP		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMP		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMC		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMP		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		D	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILLVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

FILE NAME =	USER NAME =	DESIGNED - DAS/BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -			3002	00-00083-00-PV	DUPAGE	71	30
	PLOT SCALE =	CHECKED - DAB	REVISED -						CONTRACT NO. 63579	
	PLOT DATE =	DATE - 10/28/09	REVISED -		SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

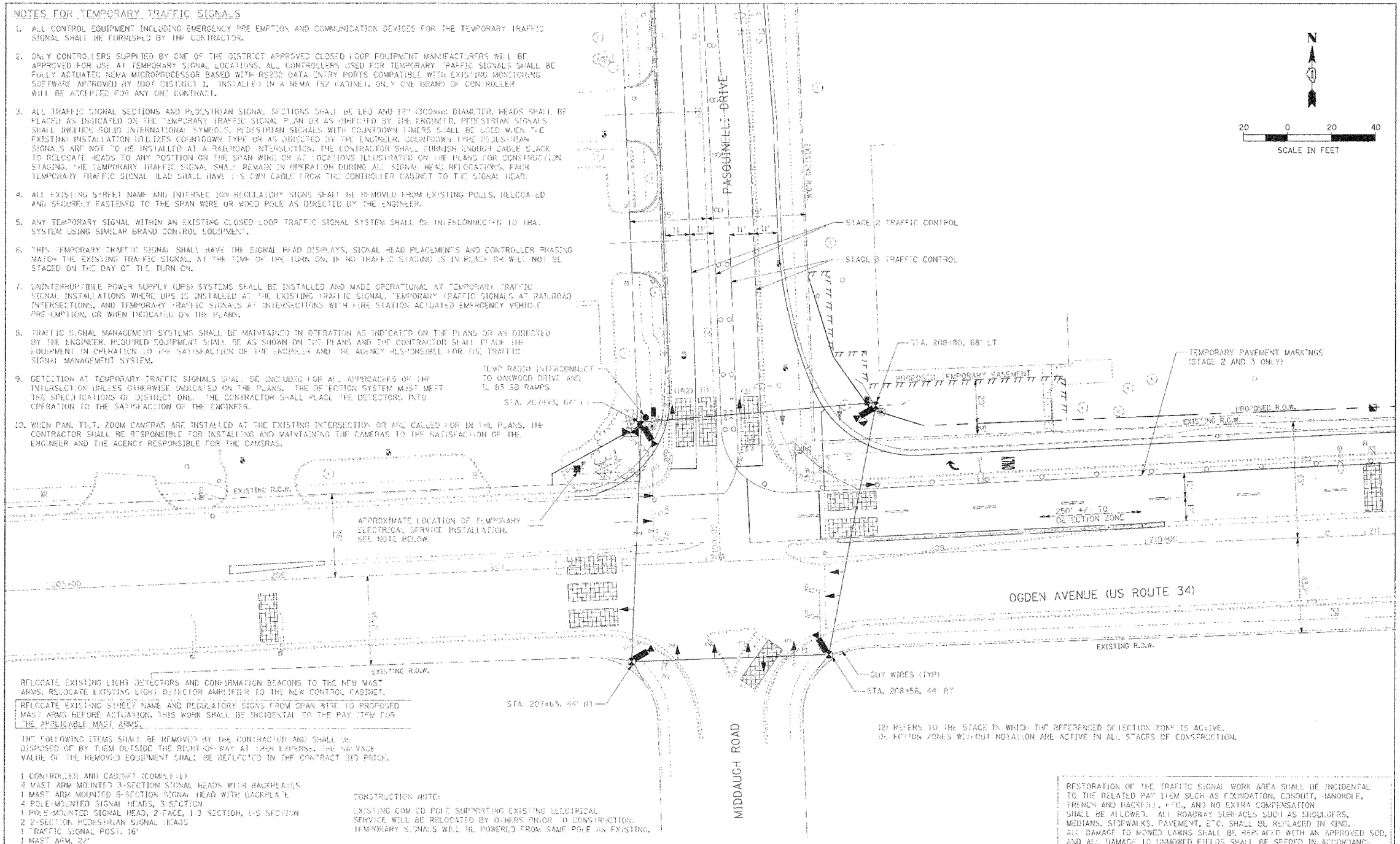
6. THIS TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PREEMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS OTHERWISE INDICATED ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT ONE. THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS. RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO THE NEW CONTROL CABINET.

RELOCATE EXISTING STREET NAME AND REGULATORY SIGNS FROM SPAN WIRE TO PROPOSED MAST ARMS BEFORE ACTUATION. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR THE APPLICABLE MAST ARMS.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 CONTROLLER AND CABINET (COMPLETE)
4 MAST ARM MOUNTED 3-SECTION SIGNAL HEADS WITH BACKPLATES
1 MAST ARM MOUNTED 5-SECTION SIGNAL HEAD WITH BACKPLATE
4 POLE-MOUNTED SIGNAL HEADS, 3-SECTION
1 POLE-MOUNTED SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2 2-SECTION PEDESTRIAN SIGNAL HEADS
1 TRAFFIC SIGNAL POST, 16'
1 MAST ARM, 22'
1 MAST ARM, 26'
1 MAST ARM, 30'
3 MAST ARM POLES

CONSTRUCTION NOTE:

EXISTING COM ED POLE SUPPORTING EXISTING ELECTRICAL SERVICE WILL BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION. TEMPORARY SIGNALS WILL BE POWERED FROM SAME POLE AS EXISTING.

(2) REFERS TO THE STAGE IN WHICH THE REFERENCED DETECTION ZONE IS ACTIVE. DETECTION ZONES WITHOUT NOTATION ARE ACTIVE IN ALL STAGES OF CONSTRUCTION.

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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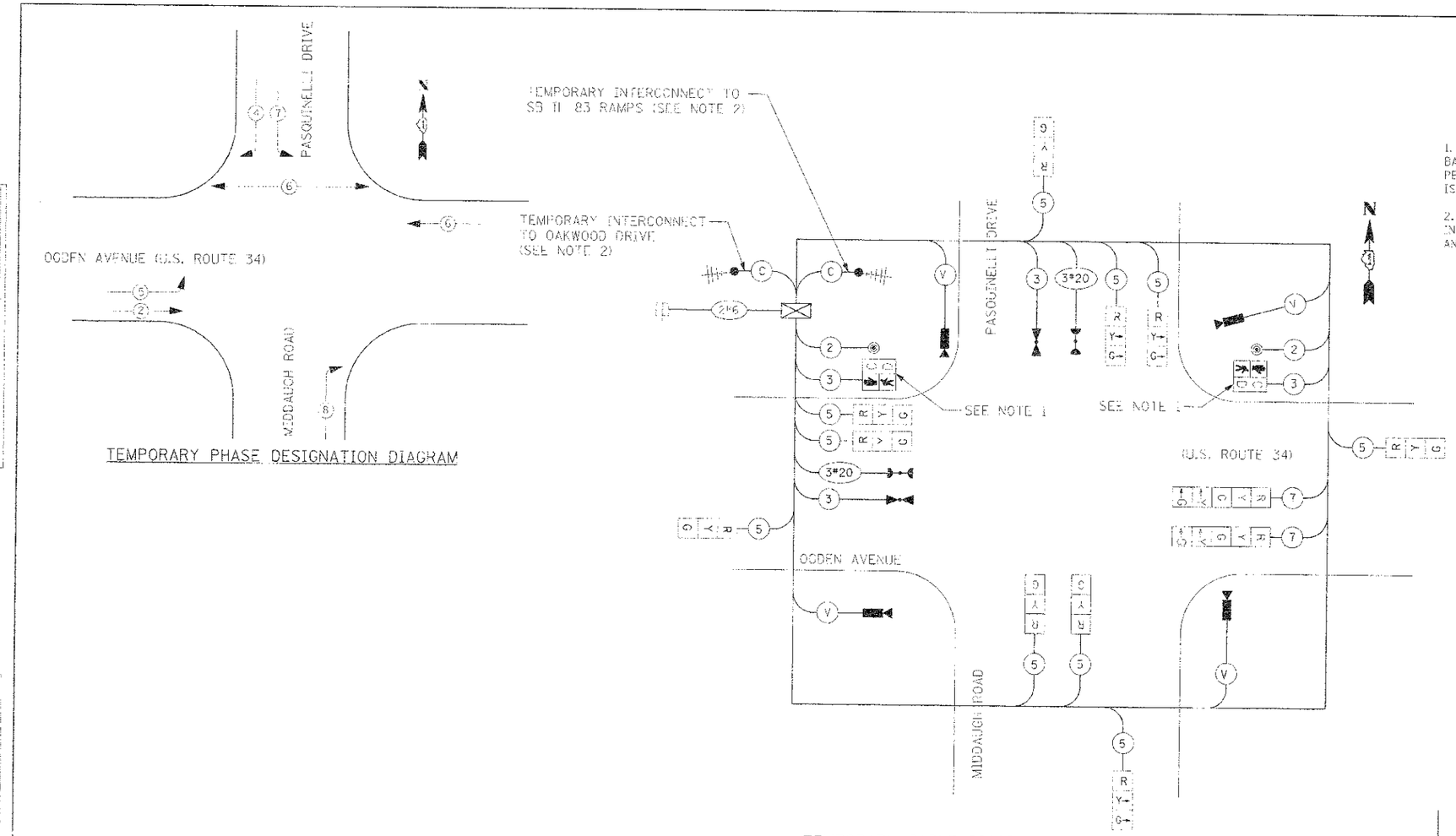
USER NAME = PSDOT	DESIGNED - DEM	REVISED -	
FILE NAME = *FILE*	DRAWN - MAP	REVISED -	
PLOT SCALE = #SCALE#	CHECKED - DEM	REVISED -	
PLOT DATE = #DATE#	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE /PASQUINELLI DRIVE TRAFFIC SIGNAL PLAN
EXISTING TRAFFIC SIGNAL REMOVAL PLAN
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN

SCALE: 1"=20' | SHEET NO. 0- SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	31
	ILLINOIS FED. AID PROJECT	CONTRACT NO. 63579		



TEMPORARY PHASE DESIGNATION DIAGRAM

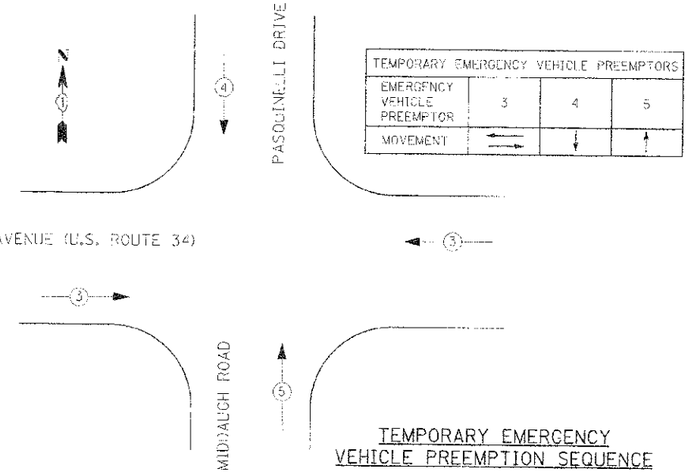
TEMPORARY CABLE DIAGRAM

CONSTRUCTION NOTES

1. TEMPORARY PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS SHALL BE BAGGED AND DISCONNECTED WHEN STAGE 2 CONSTRUCTION BEGINS. PEDESTRIAN SIGNAL HEADS SHALL NOT BE REINSTATED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA.

2. TEMPORARY RADIO INTERCONNECTS SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO IL 83 SB RAMPS AND OAKWOOD DRIVE ARE INSTALLED AND OPERATIONAL.

TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	⇄	↓	↑



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

IDOT
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAN.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13		17	0.50	111
SIGNAL (YELLOW)	8		25	0.10	20
SIGNAL (GREEN)	6		15	0.40	48
ARROW	20		12	0.10	24
PEDESTRIAN	2		15	0.50	15
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1	150		1.00	150
				TOTAL	468

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

ENERGY SUPPLY CONTACT : KATHY KOPCZICK
PHONE : (630) 985-4074
COMPANY : COM. EDISON

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA, OUTSIDE OF THE CONSTRUCTION LIMITS FOR ROADWAY CONSTRUCTION, SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS MEDIANS, SIDEWALKS, CURB AND GUTTER, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO PARKWAYS SHALL BE REPLACED WITH AN APPROVED SOD.

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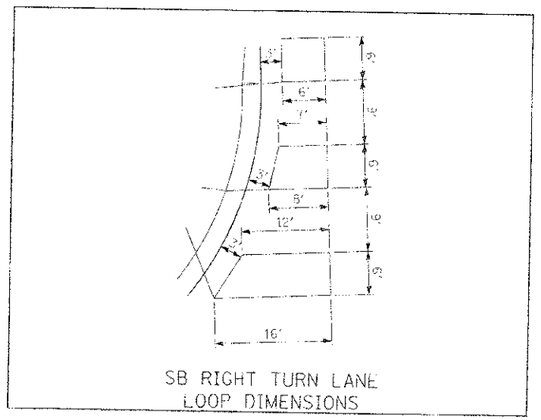
USER NAME = %USER%	DESIGNED - DEM	REVISED -	
FILE NAME = %FILE%	DRAWN - MAP	REVISED -	
PLOT SCALE = %SCALE%	CHECKED - DEM	REVISED -	
PLOT DATE = %DATE%	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE /PASQUINELLI DRIVE
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	32
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



PASQUINELLI DRIVE

EXISTING R.O.W.

PROPOSED BLOCK RETAINING WALL WITH RAILING

36' MAST ARM

30" DIA. FOUNDATION

24' MAST ARM

PROPOSED R.O.W.

ONLY 12'

ONLY 12'

ONLY 12'

19'-T 1" CNC

15'-T 1" CNC

15'-T 1" CNC

27'-T 2"

30" DIA. FOUNDATION

12'-T 3"

CONCRETE MAINTENANCE PAD

6'-CF (2) 4"

(2 EA.) DRILL EXISTING HANDHOLE

34' MAST ARM

EXISTING R.O.W.

120'-P 4"

41'

SEE DETAIL ABOVE LEFT

8'-P 4"

EXISTING R.O.W.

EXISTING CONDUITS TO BE RE-USED

60'

EXISTING 16' POST

9'-T 2 1/2"

(1 EA.) DRILL EXISTING HANDHOLE

5'-T 3"

30" DIA. FOUNDATION

32' MAST ARM

EXISTING SAMPLING (SYSTEM) DETECTORS

EXISTING INTERCONNECT TO OAKWOOD DRIVE

MIDDAUGH ROAD

232'-T 2"

12'-CF (3) 1" CNC

237'

58'

32'-P 2"

OGDEN AVENUE (US ROUTE 34)

EXISTING R.O.W.

30' MAST ARM

30" DIA. FOUNDATION

24'-T 3"

(1 EA.) DRILL EXISTING HANDHOLE

EXISTING 16' POST

EXISTING CONDUIT TO BE RE USED

(1 EA.) DRILL EXISTING HANDHOLE

EXISTING INTERCONNECT TO SB IL 83 RAMPS

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA, OUTSIDE OF THE CONSTRUCTION LIMITS FOR ROADWAY CONSTRUCTION, SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS MEDIANS, SIDEWALKS, CURB AND GUTTER, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO PARKWAYS SHALL BE REPLACED WITH AN APPROVED SOD.

TRAFFIC SIGNAL EQUIPMENT SHALL BE "ECONOLITE" TO MATCH EXISTING CONTROLLER.

Burns & McDonnell ENGINEERS
1431 OPUS PLACE, STE. 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = RJBEN	DESIGNED - DEM	REVISED	
FILE NAME = RPLE#	DRAWN - MAP	REVISED	
PLOT SCALE = 50.0 / IN.	CHECKED - DEM	REVISED	
PLOT DATE = 4/14/11	DATE - 03/28/11	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE /PASQUINELLI DRIVE
TRAFFIC SIGNAL MODERNIZATION PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-FV	DUPAGE	73	33
		CONTRACT NO. 63579		

ILLINOIS FED. AID PROJECT

ITEM NAME	UNITS	QUANTITY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	425
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	9
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	213
HANDHOLE	EACH	3
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	517
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	183
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1311
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	542
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2154
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	30
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	55
SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	16
DETECTOR LOOP, TYPE I	FOOT	373
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6, 1C	FOOT	846
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	334
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

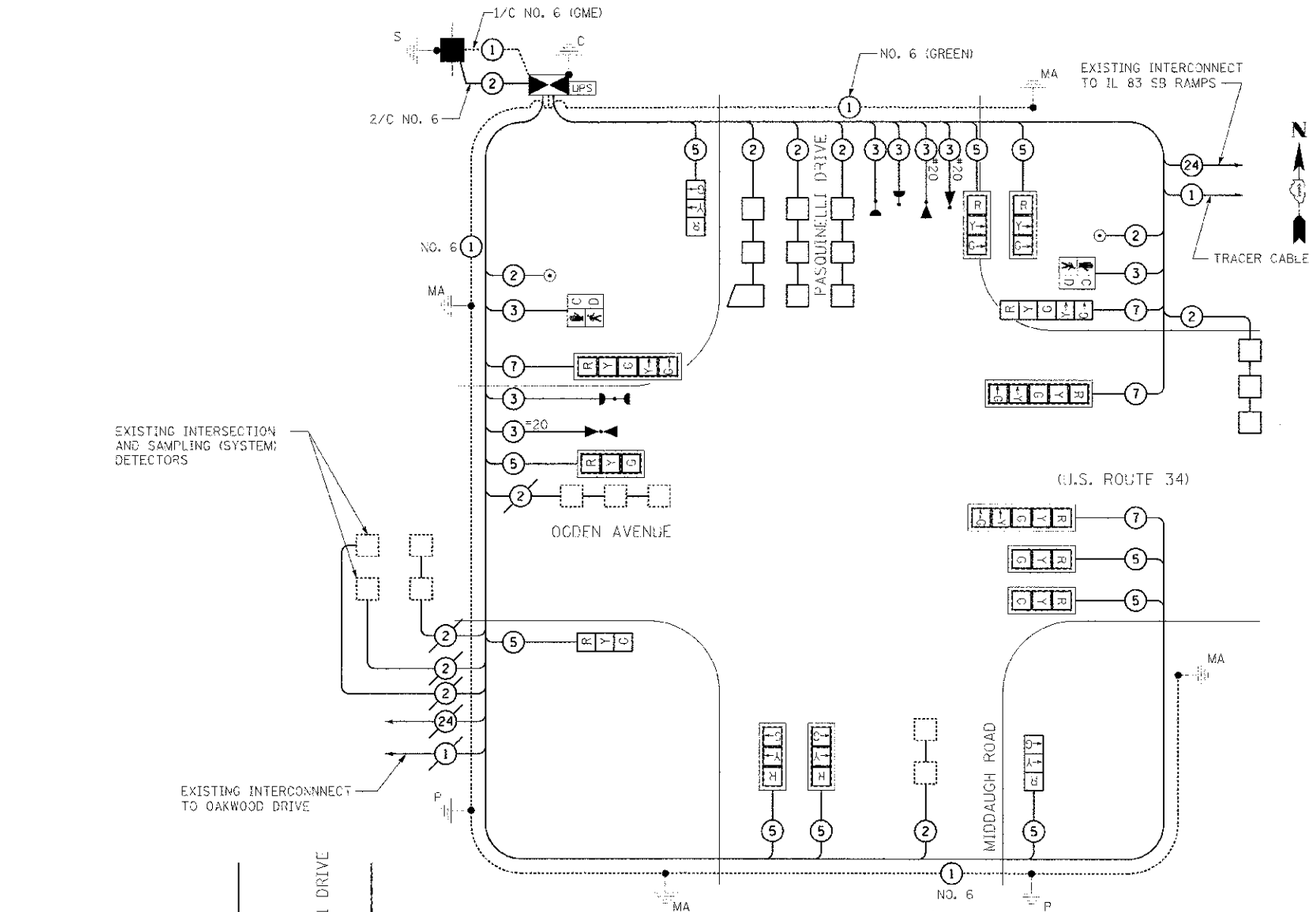
ELECTRICAL LOAD CHART

IDOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (LED)	% OPERATION	
SIGNAL (RED)	14	17	0.50	119
SIGNAL (YELLOW)	8	25	0.10	20
SIGNAL (GREEN)	8	15	0.40	48
ARROW	20	12	0.10	24
PEDESTRIAN	2	15	0.50	15
CONTROLLER	1	100	1.00	100
			TOTAL	326

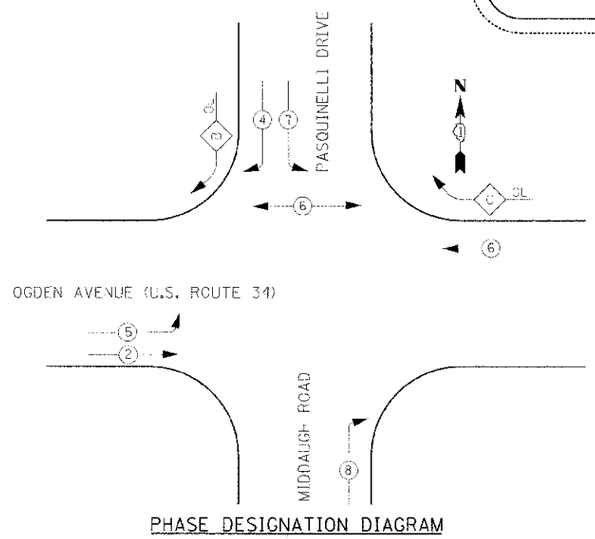
ENERGY COSTS TO
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT : KATHY KOPCZICK
PHONE : (630) 985-4074
COMPANY : COM. EDISON

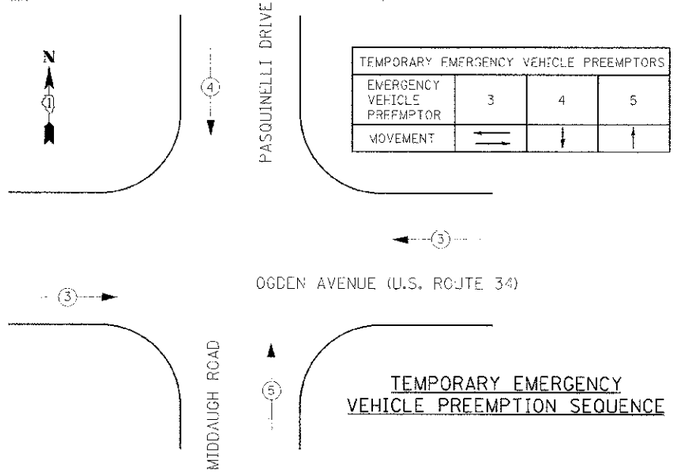
CABLE PLAN



PHASE DESIGNATION DIAGRAM



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	⇄	↓	↑



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

Burns & McDonnell SINCE 1898
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

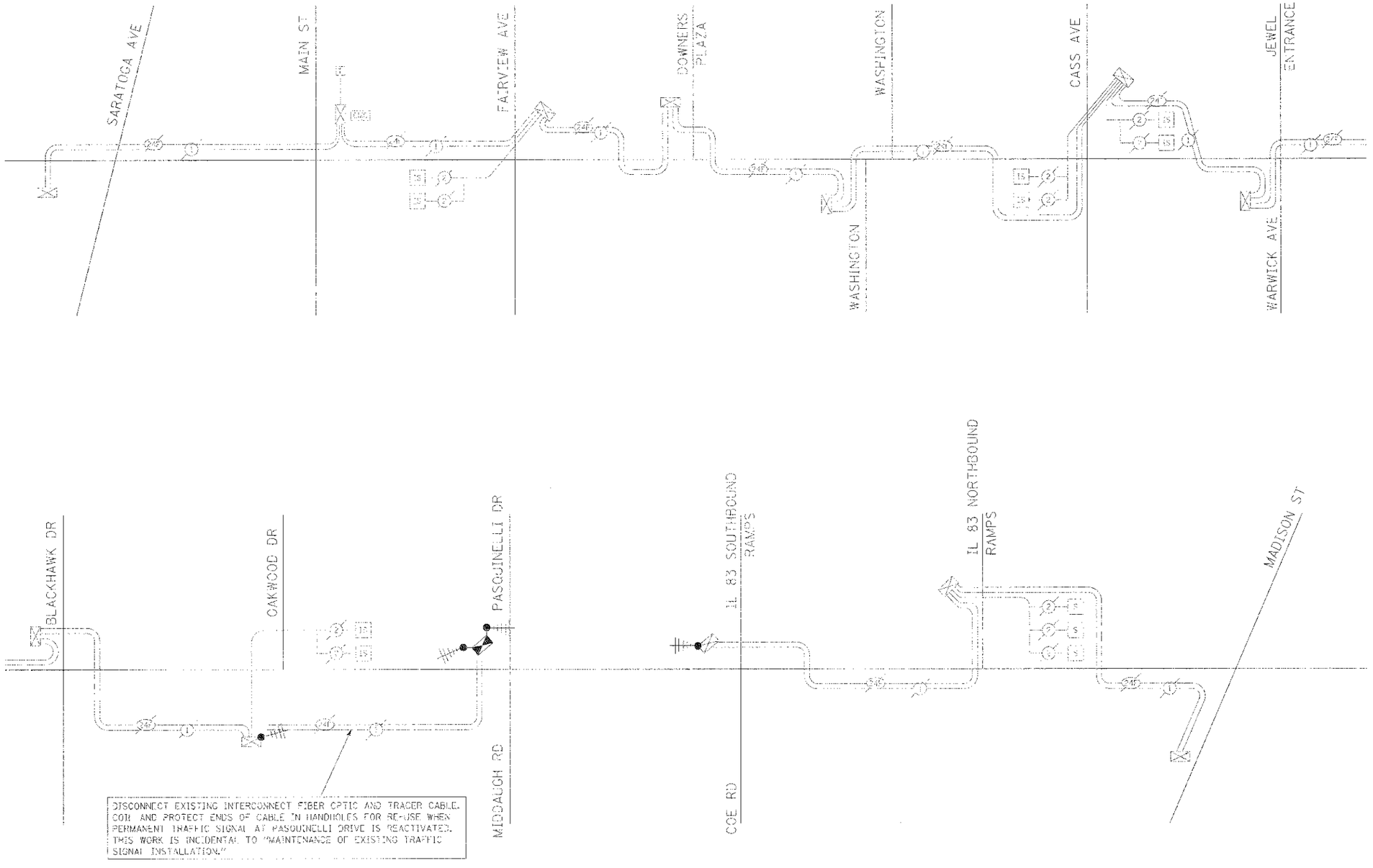
USER NAME = $USER$	DESIGNED - DEM	REVISED -	
FILE NAME = $FILE$	DRAWN MAP	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - DEM	REVISED -	
PLOT DATE = $DATE$	DATE - 01/20/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE /PASQUINELLI DRIVE
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	34
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



Burns & McDonnell ENGINEERS
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

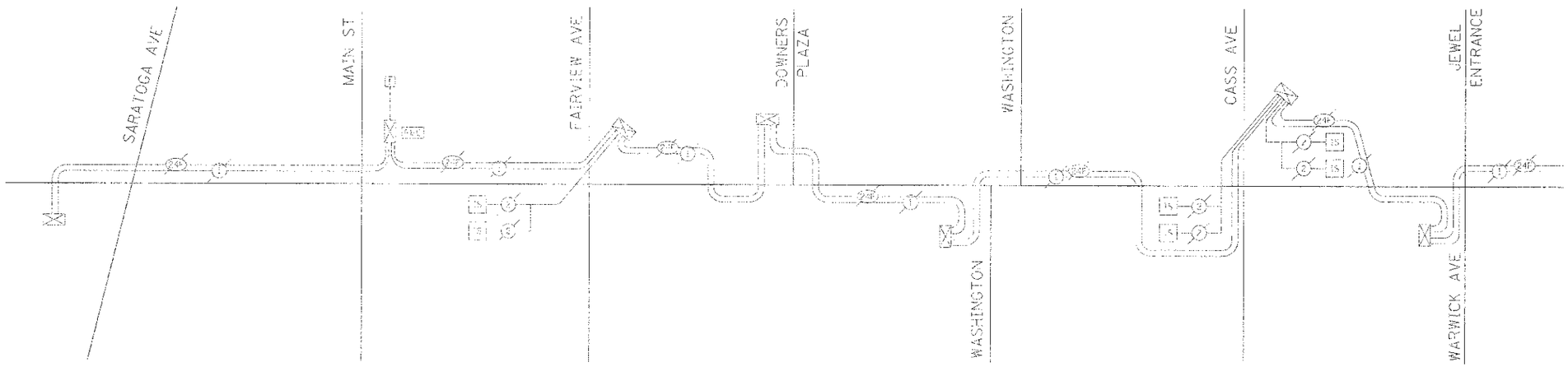
USER NAME = %USER%	DESIGNED - DEM	REVISED -	
FILE NAME = %FILE%	DRAWN - MAP	REVISED -	
PLOT SCALE = %SCALE%	CHECKED - DEM	REVISED -	
PLOT DATE = %DATE%	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE TEMPORARY INTERCONNECT SCHEMATIC

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

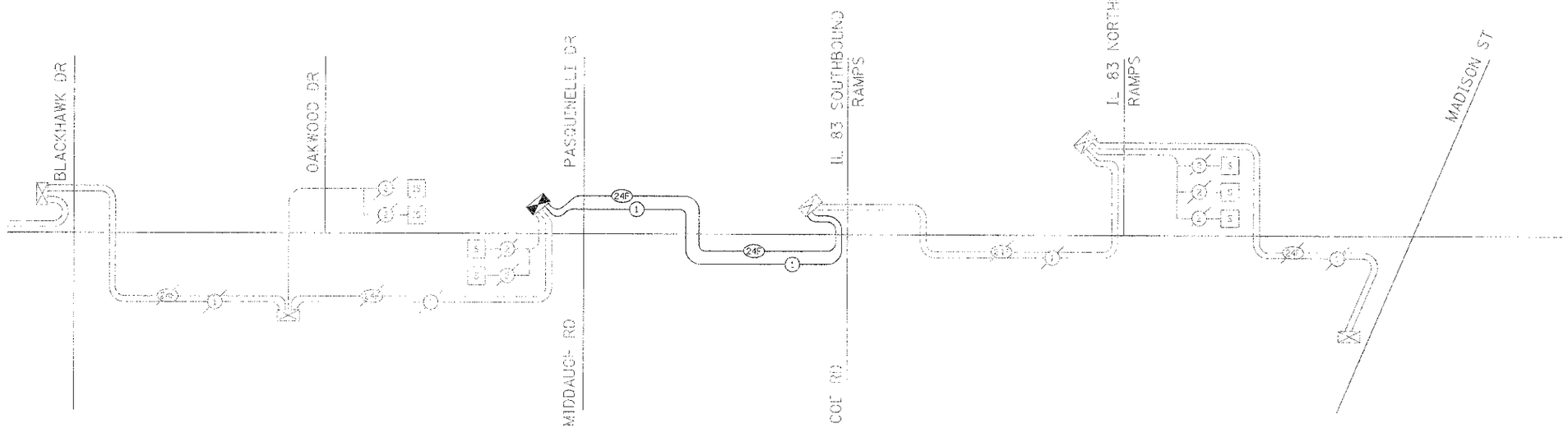
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	34A
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			



N

SUMMARY OF INTERCONNECT QUANTITIES

ITEM NAME	UNITS	QUANTITY
LOCATING UNDERGROUND CABLE	FOOT	10
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	791
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	791
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 2	EACH	1



Burns & McDonnell engineering
16W. CRUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

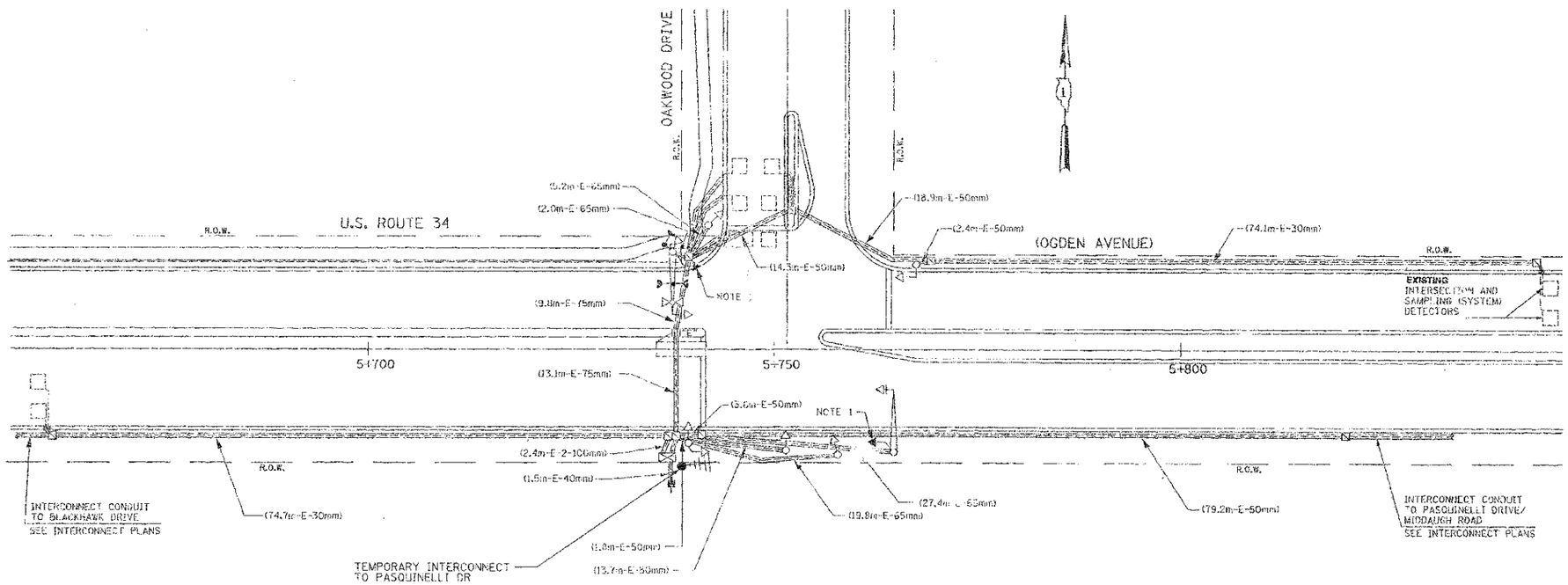
USER NAME = $USER$	DESIGNED - DEM		REVISED -
FILE NAME = $FILE$	DRAWN - MAP		REVISED -
PLOT SCALE = $SCALE$	CHECKED - DEM		REVISED -
PLOT DATE = $DATE$	DATE - 03/28/11		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE INTERCONNECT SCHEMATIC

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	35
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



NOTE 1. REMOVE EXISTING 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD WITH 12" RED INDICATION AND INSTALL NEW 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD WITH ALL 12" INDICATIONS AS SHOWN.

PLANS PROVIDED FOR INFORMATION ONLY.

INSTALL TEMPORARY INTERCONNECTION TO PASQUINELLI DRIVE DURING INSTALLATION OF TEMPORARY SIGNAL. MAINTAIN CONDITION OF ALL OTHER EQUIPMENT DURING CONSTRUCTION. RESTORE SIGNAL TO PRE-EXISTING CONDITION AFTER PASQUINELLI TEMPORARY SIGNAL IS DEACTIVATED. THE APPLICABLE PORTIONS OF THIS WORK ARE PAID FOR AS "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION" AND "TEMPORARY TRAFFIC SIGNAL INSTALLATION."

Burns & McDonnell engineering
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
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USER NAME = $USER$	DESIGNED - DEM	REVISED	
FILE NAME = $FILE$	DRAWN - MAP	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - DEM	REVISED -	
PLOT DATE = $DATE$	DATE - 03/28/11	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

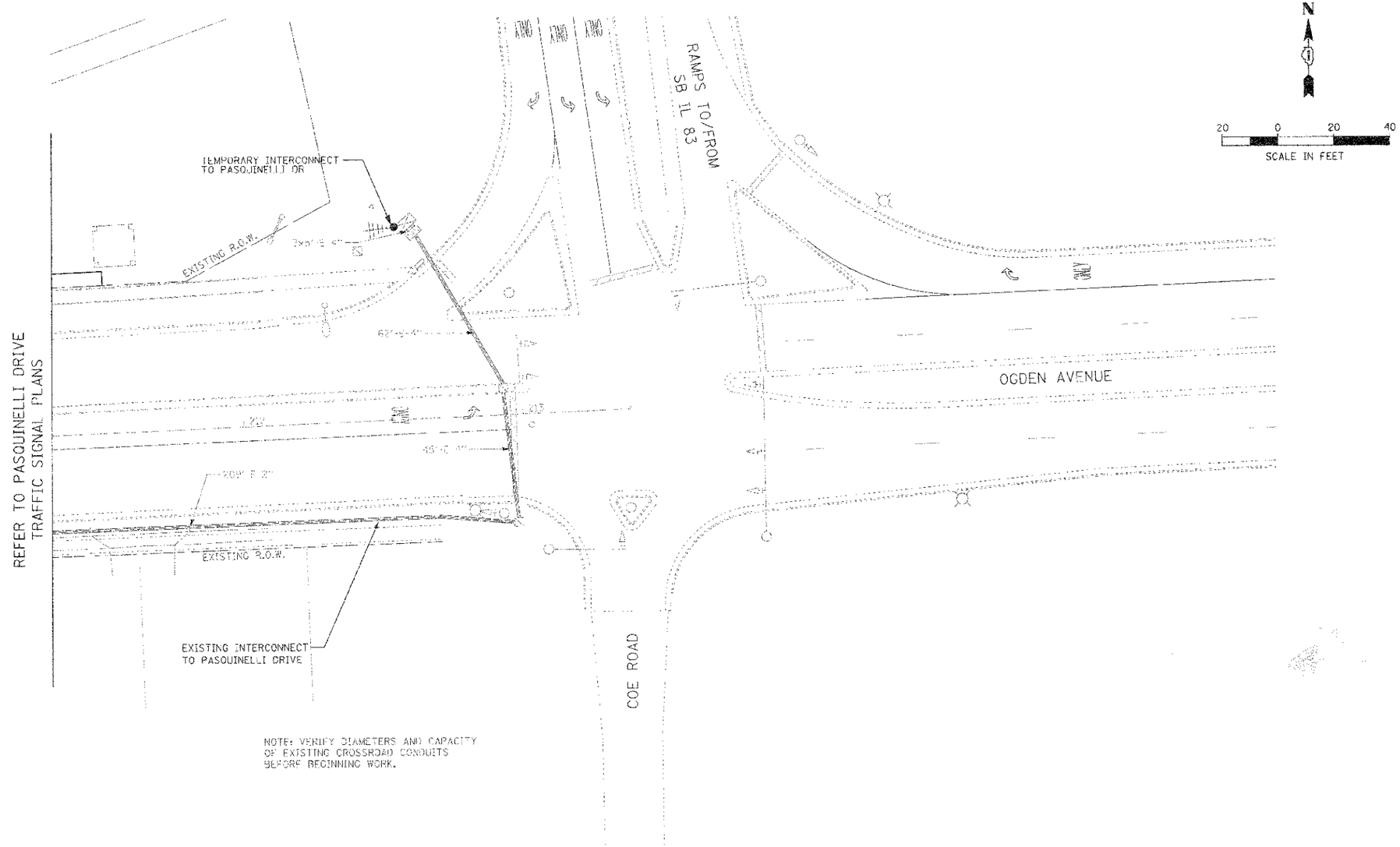
OGDEN AVENUE TEMPORARY INTERCONNECT PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	36

CONTRACT NO. 63579

"ILLINOIS FED. AID PROJECT"



NOTE: VERIFY DIAMETERS AND CAPACITY OF EXISTING CROSSROAD CONDUITS BEFORE BEGINNING WORK.

PLANS PROVIDED FOR INFORMATION ONLY.

INSTALL TEMPORARY RADIO INTERCONNECTION TO PASQUINELLI DRIVE DURING INSTALLATION OF TEMPORARY SIGNAL, MAINTAIN CONDITION OF ALL OTHER EQUIPMENT DURING CONSTRUCTION. RESTORE SIGNAL TO PRE EXISTING CONDITION AFTER PASQUINELLI TEMPORARY SIGNAL IS DEACTIVATED. THE APPLICABLE PORTIONS OF THIS WORK ARE PAID FOR AS "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION" AND "TEMPORARY TRAFFIC SIGNAL INSTALLATION."

Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

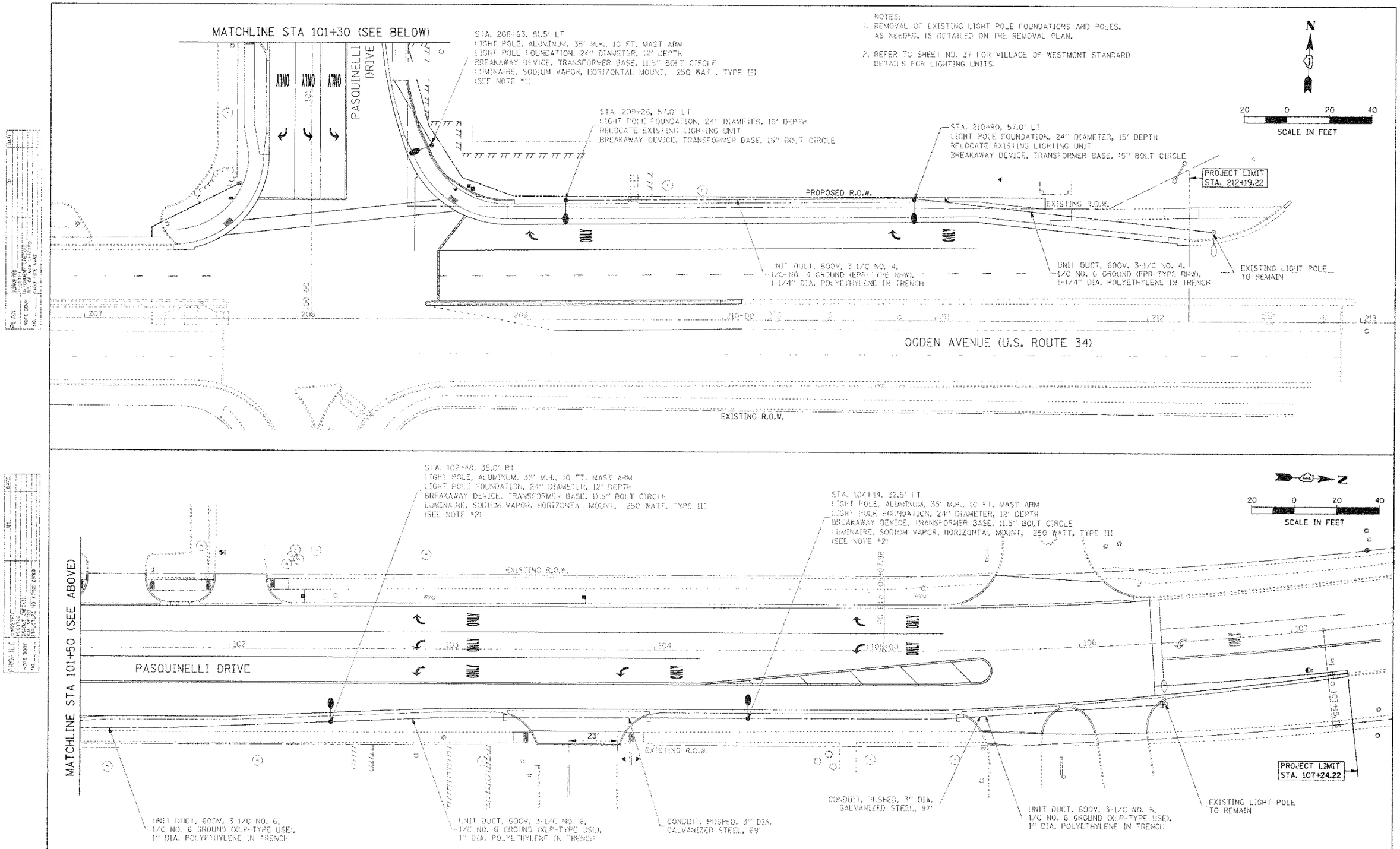
USER NAME = #USER#	DESIGNED - DEM	REVISED -	
FILE NAME = #FILE#	DRAWN - MAP	REVISED -	
PLOT SCALE = #SCALE#	CHECKED - DEM	REVISED -	
PLOT DATE = #DATE#	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE TEMPORARY /PERMANENT INTERCONNECT PLAN

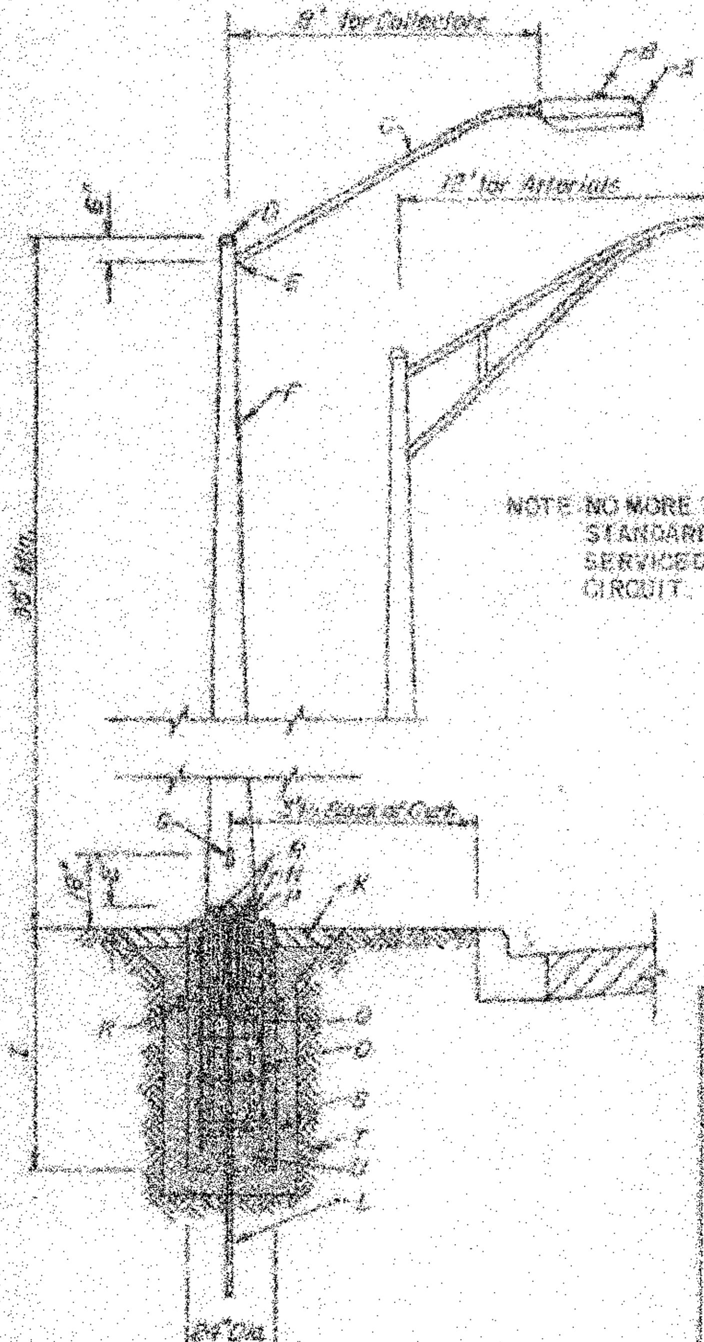
SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
3002	00-00083-00-PV	DUPAGE	73 37
		CONTRACT NO. 63579	
		ILLINOIS FED. AID PROJECT	

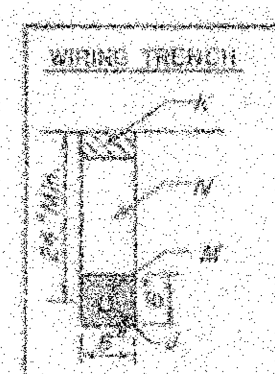


Burns & McDonnell — 1431 OPUS PLACE, STE 400, DOWNERS GROVE, IL 60515, PHONE: (630) 724-3200, FAX: (630) 724-3201, WEB: WWW.BURNSMCD.COM	USER NAME = JOSEPH	DESIGNED - JMT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	FILE NAME = SHEET	DRAWN - JMT	REVISED -	PASQUINELLI DRIVE RECONSTRUCTION PROPOSED LIGHTING PLAN
	PLOT SCALE = 50'/INCH	CHECKED - MAP	REVISED -	SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00.00 TO STA. 107+25.00
	PLOT DATE = 3/28/11	DATE 03/28/11	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	38
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



NOTE: NO MORE THAN TWO (2) STANDARDS SHALL BE SERVICED ON THE SAME CIRCUIT.



CONSTRUCTION NOTES

- A. Mounted Luminaire (See Note 1)
- B. Photocontrol
- C. Alum. Tapered Elliptical Arm
- D. Cast Top
- E. Stainless Steel Mounting
- F. Spun Alum. Tapered Tube (See Note 2)
- G. Handhole
- H. Cast Alum. Bolt Cover
- I. Dependent on Soil Conditions, 6' Min.
- J. Conduit (See Note 5)
- K. 4" Min. Topsoil & Sod
- L. 5/8" Dia. x 10'-0" Copperweld Ground Rod. Attach to Ground Wire.
- M. Clean Sand or Gravel
- N. Normal Backfill
- O. For Re-Bar Placement and Bolt Circle, See Manufac. Spec's.
- P. Anchor Bolts, See Manufac. Spec's.
- Q. 2" Min. Dia. Conduit
- R. Bushing
- S. Gravel
- T. Undisturbed Earth
- U. 6-Bag Mix Concrete Foundation

GENERAL NOTES

1. Luminaire shall be High Pressure Sodium Vapor, Cooper Utility Lighting, 250 W on Arterials (Cat. No. OVH 25 SC 22 R 4H-RA1014), 150 W on Collector or Industrial Streets (Cat. No. OVH 15 SR 22 0 4H-RA1014), or Approved Equal.
2. Pole shall be Hapco Cat. No. 31-867 (9' arm) and 31-871 (12' arm), or Approved Equal.
3. For Arterials, Every Other Pole shall be Opposite Side of Street.
4. Spacing shall be a Max. of 200'.
5. Circuiting shall be 120/240 Volt, Single Phase, 60 Cycle. Cable shall be 3 Wire, #6, Type UF Copper in 1¼" Polyethylene Unit Duct or Galvanized Conduit.
6. Service Connection shall be Requested and Paid For by Installer.
7. Case Grounding shall be Provided for Each Pole.
8. Heavy Wall, Rigid Conduit or Intermediate Metallic Conduit shall be Provided for All Street, Driveway, and Parking Lot Crossings.
9. Separate Permits and Inspection Requests Required from Both the Engineering Dept. and Electrical Inspector.

VILLAGE OF WESTMONT

STREET LIGHT - TYPE 2

ARTERIAL, COLLECTOR, OR INDUSTRIAL

ISSUED: March 1988
REVISED: July 1997

DWG. R-14-1

Burns & McDonnell
1431 OPUS PLACE, STE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = $USER$	DESIGNED -	REVISED -
FILE NAME = $FILE$	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE / PASQUINELLI DRIVE
LIGHTING PLANS – VILLAGE OF WESTMONT DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	39

CONTRACT NO. 63579

ILLINOIS FED. AID PROJECT

CLIENT	JOB #	BORING #	SHEET
Burns & McDonnell	1205	B-1	1 OF 1

PROJECT NAME: Westmont Streets Improvement — ARCHITECT-ENGINEER:

SITE LOCATION: Blackhawk Dr. & Pasquinelli Dr., Westmont, IL

CALIBRATED PENETROMETER TONS/FT.² (1 2 3 4 5+)

PLASTIC LIMIT % X — WATER CONTENT % ⊗ — LIQUID LIMIT % △

ROCK QUALITY DESIGNATION & RECOVERY: RQD% — REC.% (20% 40% 60% 80% 100%)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50+)

DESCRIPTION OF MATERIAL — ENGLISH UNITS

BOTTOM OF CASING ▶ — LOSS OF CIRCULATION (100%)

SURFACE ELEVATION: 0

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE REC. (IN)	RECOVERY (IN)	WATER LEVELS	ELEVATION (FT)
0						
	1	SS	12	12		
	2	SS	24	24		
5	3	SS	24	24		
10						
15						
20						
25						
30						

9" Asphalt

Clayey GRAVEL, With Sand, Dark Brown, Loose, Dry, (GC-FILL)

Silty CLAY, Dark Brown and Dark Gray, Stiff, (CL)

Silty CLAY, Brown and Gray, Stiff to Very Stiff, (CL)

END OF BORING @ 6'

Boring 1: 7.5, 1.5, 24.7, 5, 23.3, 20.6, 6, 2.5

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES IN-SITU THE TRANSITION MAY BE GRADUAL

▽WL Dry	WS OR CR	BORING STARTED 4/16/08	
▽WL(UCR) ▽WL(ACR) Dry		BORING COMPLETED 4/16/08	CAVE IN DEPTH @
▽WL		RIG CME-75 FOREMAN TDH	DRILLING METHOD HSA

08-13-08

CLIENT	JOB #	BORING #	SHEET
Burns & McDonnell	1205	B-2	1 OF 1

PROJECT NAME: Westmont Streets Improvement — ARCHITECT-ENGINEER:

SITE LOCATION: Blackhawk Dr. & Pasquinelli Dr., Westmont, IL

CALIBRATED PENETROMETER TONS/FT.² (1 2 3 4 5+)

PLASTIC LIMIT % X — WATER CONTENT % ⊗ — LIQUID LIMIT % △

ROCK QUALITY DESIGNATION & RECOVERY: RQD% — REC.% (20% 40% 60% 80% 100%)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50+)

DESCRIPTION OF MATERIAL — ENGLISH UNITS

BOTTOM OF CASING ▶ — LOSS OF CIRCULATION (100%)

SURFACE ELEVATION: 0

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE REC. (IN)	RECOVERY (IN)	WATER LEVELS	ELEVATION (FT)
0						
	1	SS	12	12		
	2	SS	24	12		
5	3	SS	24	24		
10						
15						
20						
25						
30						

9½" Asphalt

2½" Clayey GRAVEL FILL

Silty CLAY, Dark Gray to Brown and Gray, Very Stiff to Stiff, (CL)

Silty CLAY, Grey and Brown, Very Stiff, (CL)

END OF BORING @ 6'

Boring 2: 5, 1.5, 26.6, 3, 21.1, 2.6

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES IN-SITU THE TRANSITION MAY BE GRADUAL

▽WL Dry	WS OR CR	BORING STARTED 4/16/08	
▽WL(UCR) ▽WL(ACR) Dry		BORING COMPLETED 4/16/08	CAVE IN DEPTH @
▽WL		RIG CME-75 FOREMAN TDH	DRILLING METHOD HSA

08-13-08

CLIENT	JOB #	BORING #	SHEET
Burns & McDonnell	1205	B-3	1 OF 1

PROJECT NAME: Westmont Streets Improvement — ARCHITECT-ENGINEER:

SITE LOCATION: Blackhawk Dr. & Pasquinelli Dr., Westmont, IL

CALIBRATED PENETROMETER TONS/FT.² (1 2 3 4 5+)

PLASTIC LIMIT % X — WATER CONTENT % ⊗ — LIQUID LIMIT % △

ROCK QUALITY DESIGNATION & RECOVERY: RQD% — REC.% (20% 40% 60% 80% 100%)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50+)

DESCRIPTION OF MATERIAL — ENGLISH UNITS

BOTTOM OF CASING ▶ — LOSS OF CIRCULATION (100%)

SURFACE ELEVATION: 0

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE REC. (IN)	RECOVERY (IN)	WATER LEVELS	ELEVATION (FT)
0						
	1	SS	12	12		
	2	SS	24	24		
5	3	SS	24	20		
10						
15						
20						
25						
30						

6½" Asphalt

3" Clayey GRAVEL FILL

TOPSOIL, Trace Sand, Black, Stiff, (OL)

Silty CLAY, Brown and Gray, Very Stiff, (CL)

END OF BORING @ 6'

Boring 3: 9, 27.3, 34.9, 11, 3.25, 21.5, 4.0, 9, 22.9, 1.75

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES IN-SITU THE TRANSITION MAY BE GRADUAL

▽WL Dry	WS OR CR	BORING STARTED 4/16/08	
▽WL(UCR) ▽WL(ACR) Dry		BORING COMPLETED 4/16/08	CAVE IN DEPTH @
▽WL		RIG CME-75 FOREMAN TDH	DRILLING METHOD HSA

08-13-08

PROFILE — SURVEYED — DATE — PLOTTED — CHECKED — U.S. 12000 — U.S. NAD 83 — NO. — CADD FILE NAME — STRUCTURE NUMBERS OR ID

PLAN — SURVEYED — DATE — PLOTTED — CHECKED — U.S. 12000 — U.S. NAD 83 — NO. — CADD FILE NAME — STRUCTURE NUMBERS OR ID

Burns & McDonnell
1431 OPUS PLACE, STE. 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3200
FAX: (630) 724-3201
WEB: WWW.BURNSMCD.COM

USER NAME = #USER# | FILE NAME = #FILL# | PLOT SCALE = #SCALE# | PLOT DATE = #DATE#

DESIGNED - ECS | DRAWN - ECS | CHECKED ECS | DATE - 03/28/11

REVISED - | REVISED - | REVISED - | REVISED -

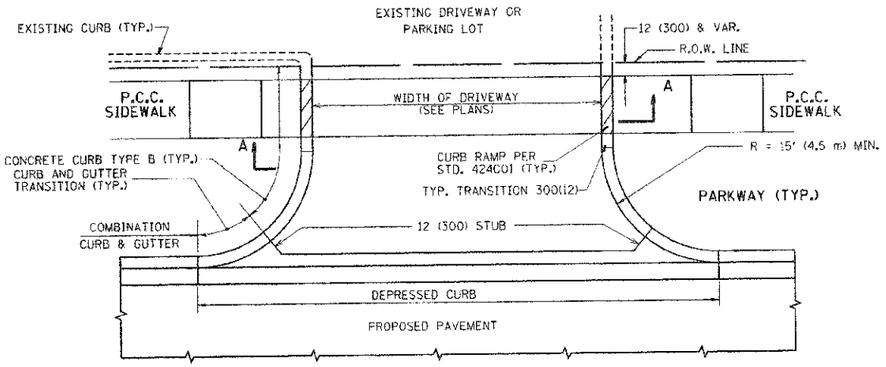
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE RECONSTRUCTION
SOIL BORINGS

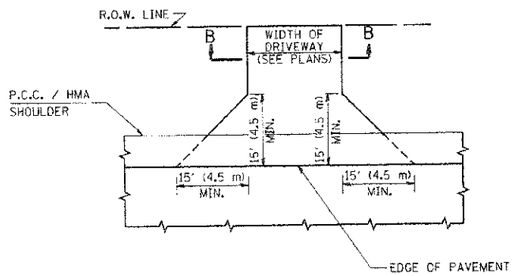
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	40
		CONTRACT NO. 63579		

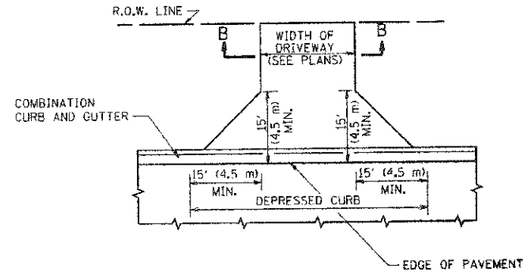
ILLINOIS FED. AID PROJECT



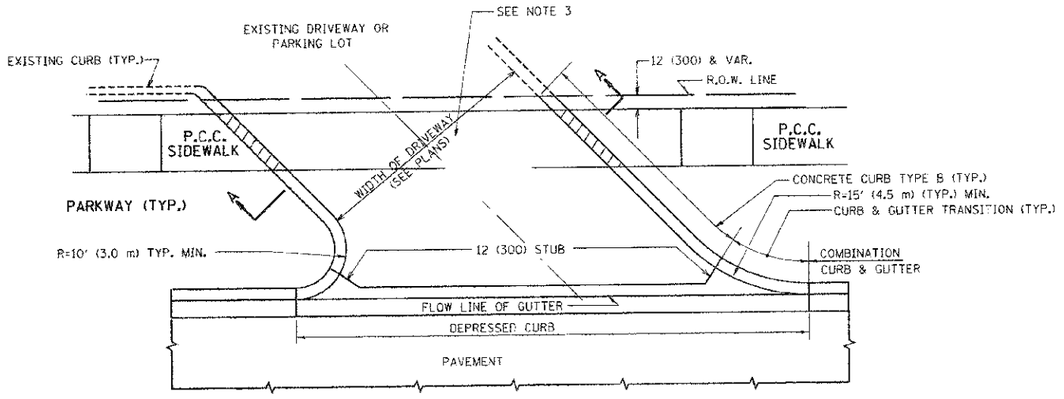
WITH CONCRETE CURB, TYPE B



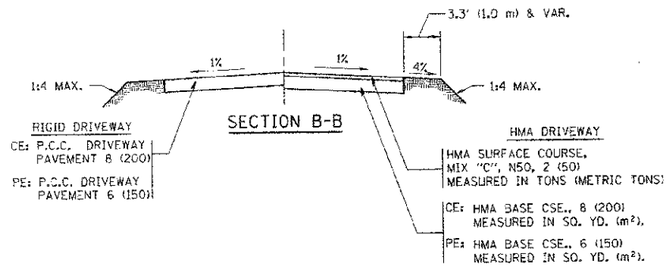
ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



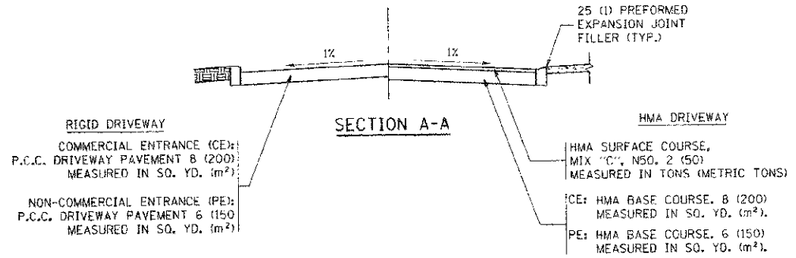
WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).



GENERAL NOTES:

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

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

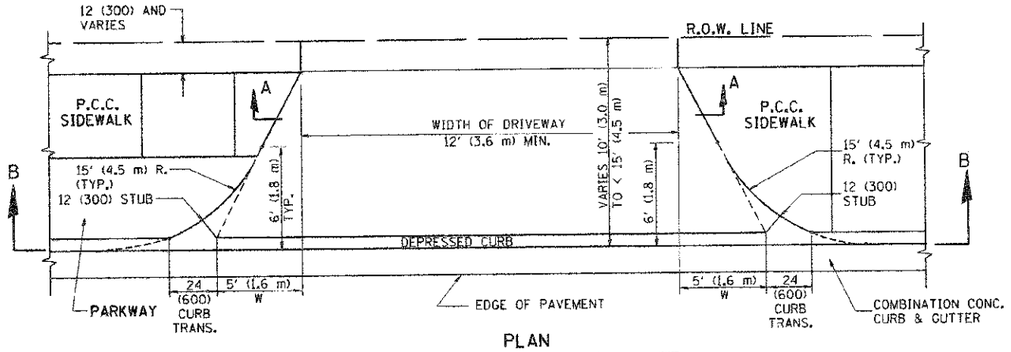
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

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

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

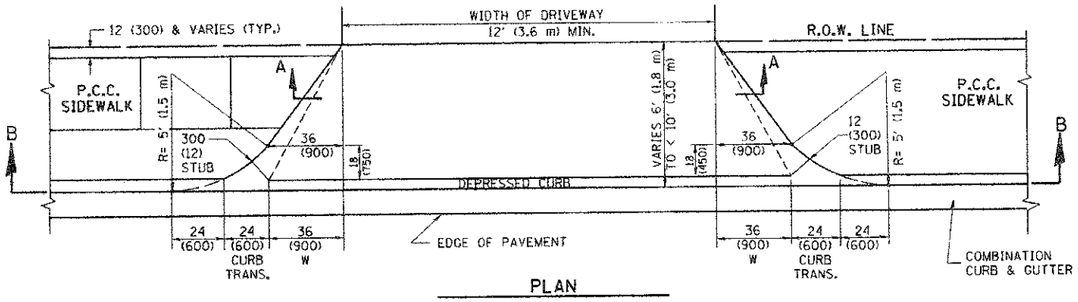
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME = c:\projects\districtd22x34\bd01.dgn	USER NAME = bauerd1	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - P. LaFLUER 04-15-03				3002	00-00083-00-FV	DUPAGE	73	41
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		BD0158-07 (BD-01)	CONTRACT NO. 63579		
	PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISED - R. BORO 06-11-08				FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



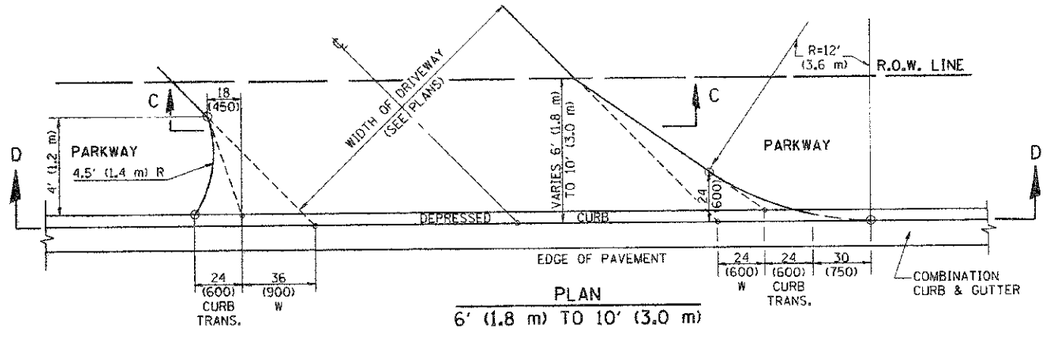
PLAN

10' (3.0 m) TO < 15' (4.5 m)



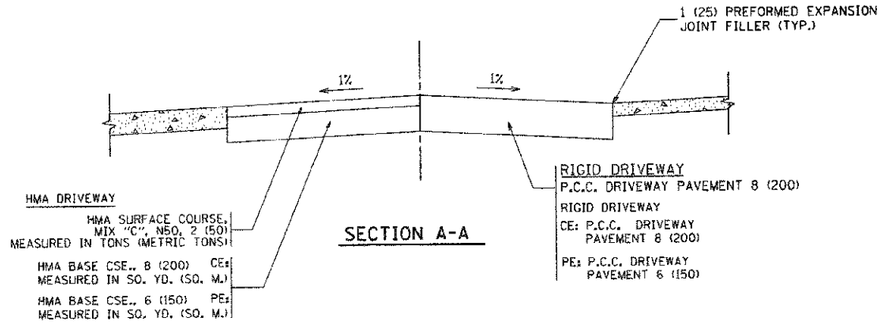
PLAN

6' (1.8 m) TO < 10' (3.0 m)

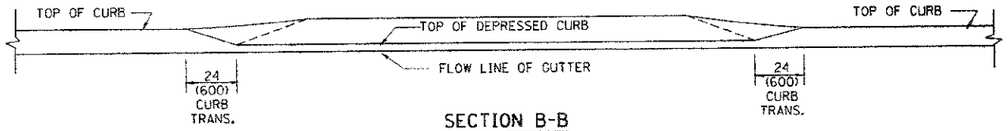


PLAN

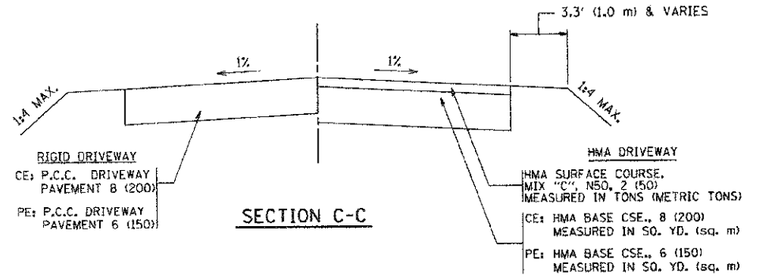
6' (1.8 m) TO 10' (3.0 m)



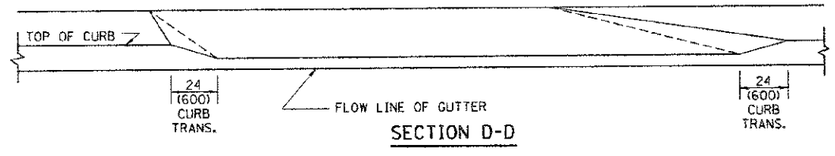
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

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

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

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

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

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

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

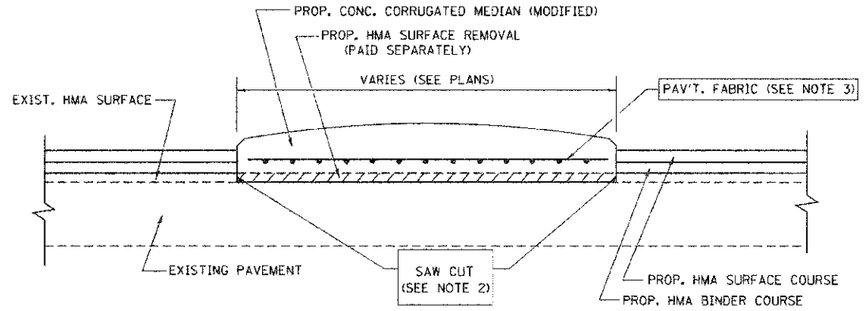
FILE NAME = M:\dist\std\22x34\bd02.dgn	USER NAME = gaglianobt	DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97
		DRAWN -	REVISED - M. GOMEZ 04-06-01
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - P. LAFLEUR 04-15-03
	PLOT DATE = 1/4/2008	DATE - 11-06-95	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

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

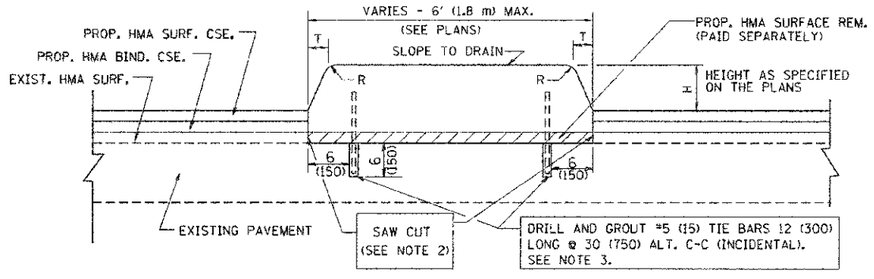
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	42
	BD400-02 (BD-02)	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

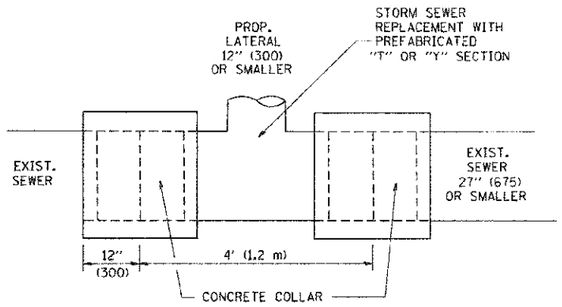
DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

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

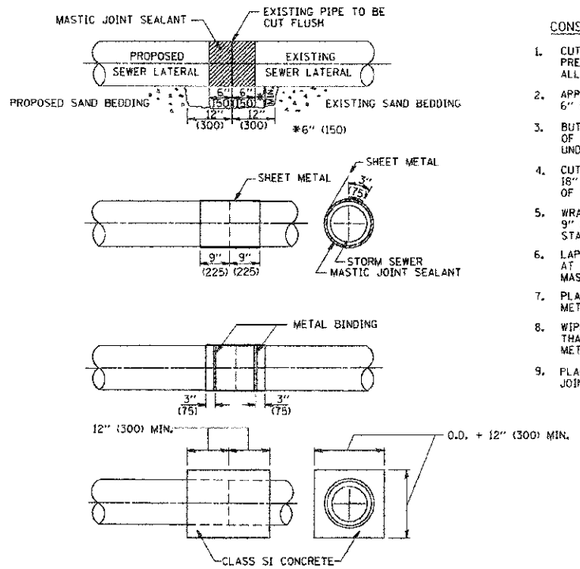
FILE NAME = N:\drafted\22x34\bd05.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)
		DRAWN -	REVISED - R. SHAH 10-25-94		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - E. GOMEZ 08-28-00		
	PLOT DATE = 1/4/2008	DATE - 05-14-90	REVISED - R. BORO 01-01-07		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	43
	BD600-02 (BD-5)	CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

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

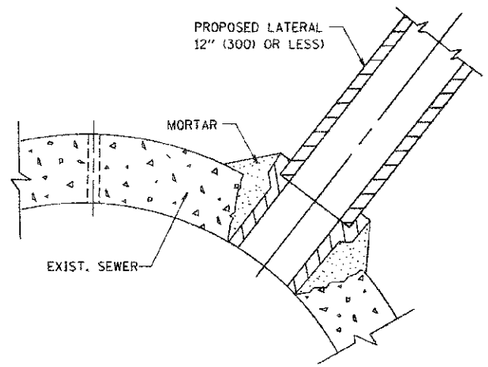


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

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

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

BASIS OF PAYMENT

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

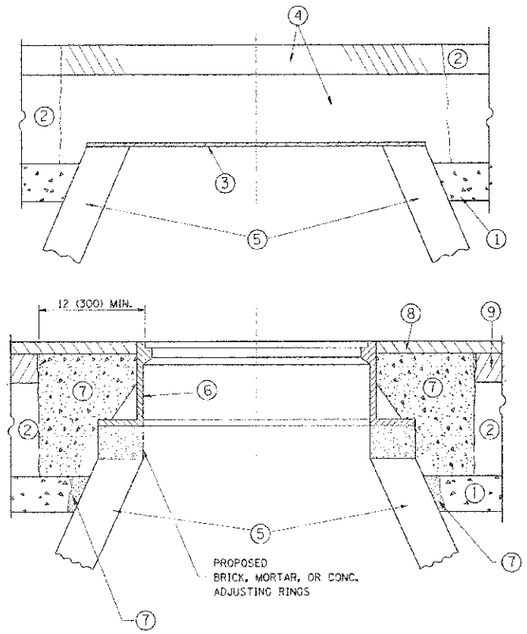
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

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

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

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

FILE NAME = W:\diststd\22x34\bd07.dgn	USER NAME = gogliamobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 06-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. SHAH 09-09-94					3002	00-00083-00-PV	DUPAGE	73	44
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94					BD500-01 (BD-7)		CONTRACT NO. 63579		
	PLOT DATE = 1/4/2000	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

(1) SUB-BASE GRANULAR MATERIAL
(2) EXISTING PAVEMENT
(3) 36 (900) DIAMETER METAL PLATE
(4) PROPOSED CRUSHED STONE AND HMA SURFACE MIX
(5) EXISTING STRUCTURE
(6) FRAME AND LID (SEE NOTES)
(7) CLASS PP-1* CONCRETE
(8) PROPOSED HMA SURFACE COURSE
(9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

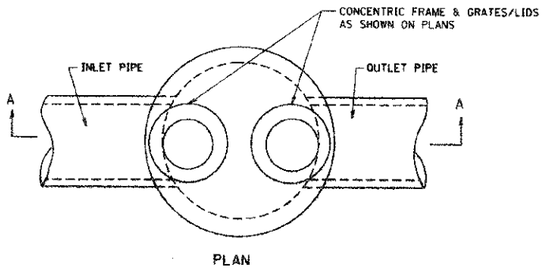
FILE NAME = c:\pw_work\pwidot\jroque\d0108315\fr09.dgn	USER NAME = jroque	DESIGNED - R. SHAH	REVISED - A. ABBAS 03-21-97
		DRAWN -	REVISED - R. WIEDEMAN 05-14-04
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 2/13/2008	DATE 10-25-94	REVISED - R. BORO 03-09-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

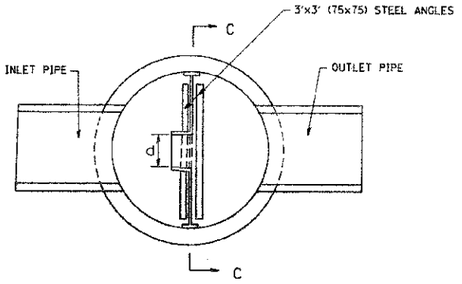
DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

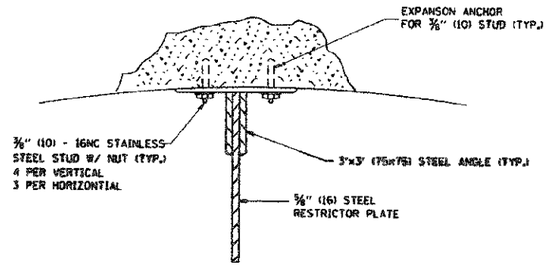
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	45
	BD500-03 (BD-8)	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



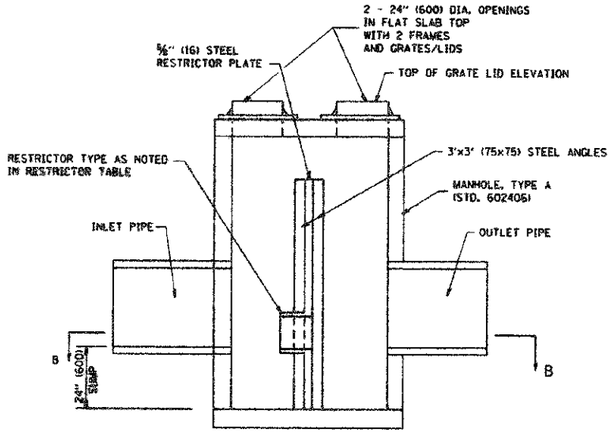
PLAN



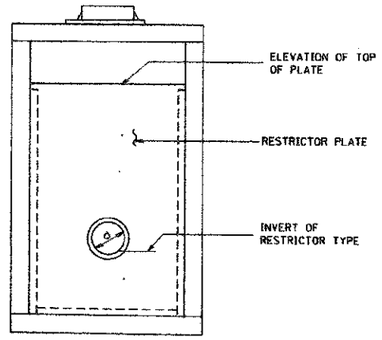
SECTION B-B



ANGLE FASTENER DETAIL



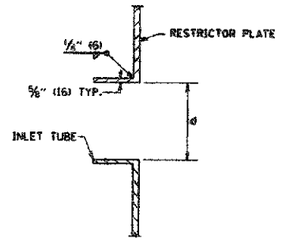
SECTION A-A



SECTION C-C

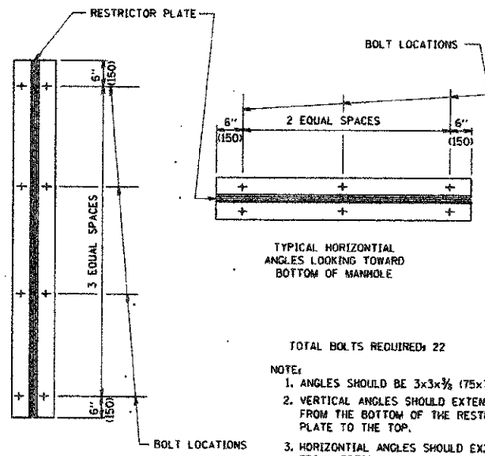
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
210+80	6 feet	T1, CL	2	8	714.11	716.0
210+55	6 feet	T1, CL	2	8	706.09	714.0
212+10	6 feet	T1, CL	2	4	705.58	709.5



TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL

TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

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

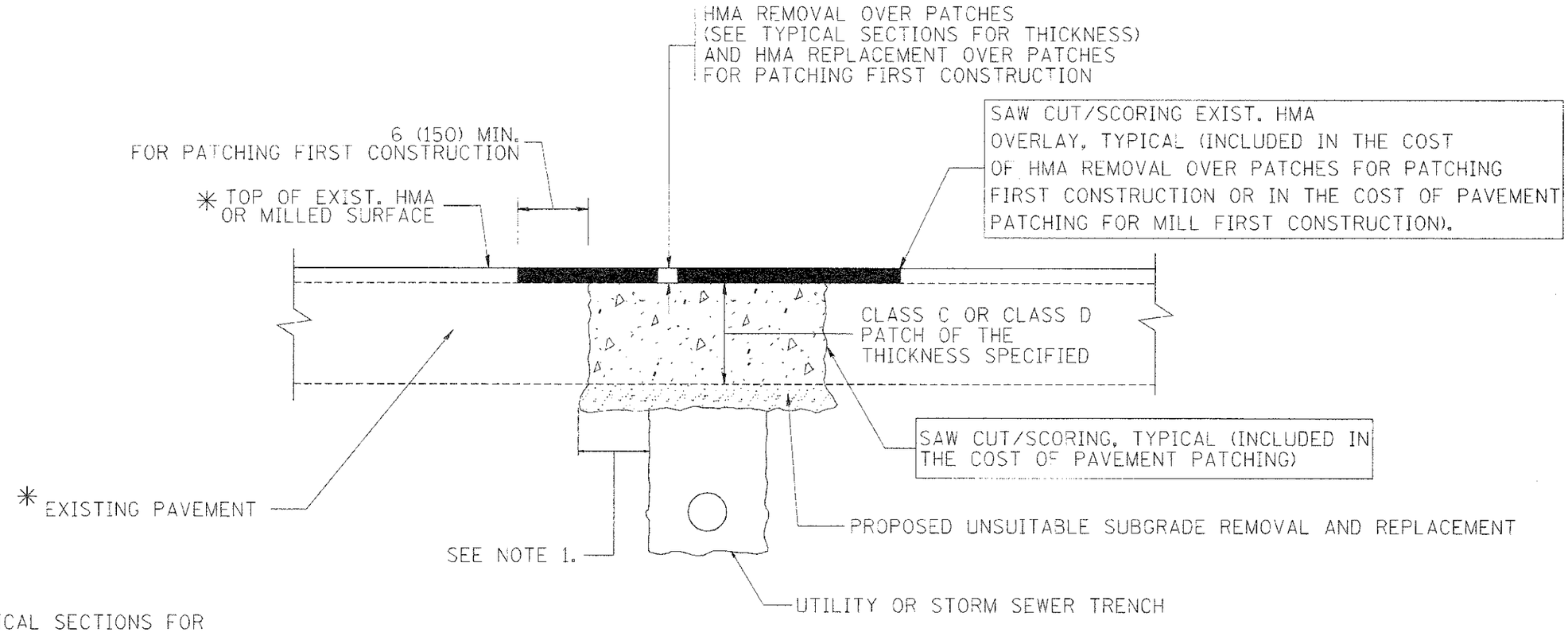
FILE NAME = W:\standard\22x34\bolt2.dgn	USER NAME = gaglanobt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - E. GOMEZ 08-28-00
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-08-01
	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	46
	BD600-04 (BD-12)	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT			



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

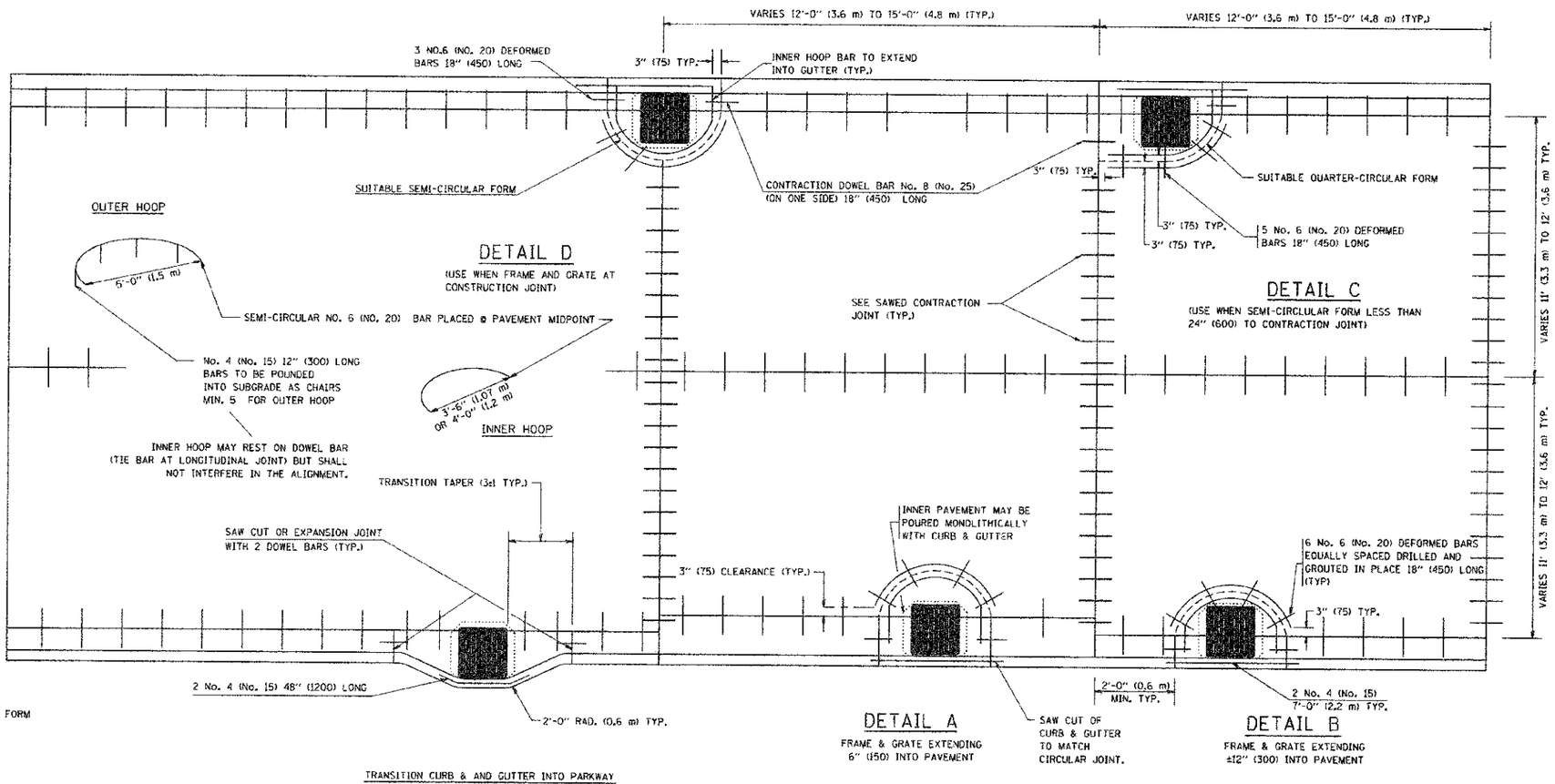
FILE NAME = a:\projects\dist1std22x34\bd22.dgn	USER NAME = bauerd1	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07					3002	00-00083-00-PV	DUPAGE	73	47
	PLOT SCALE = 50.802 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07						BD400-04 (BD-22)	CONTRACT NO. 63879		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"

NOTES :

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT. EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



TRANSITION CURB & AND GUTTER INTO PARKWAY
(PREFERRED BECAUSE PAVING OF MAINLINE NOT AFFECTED.)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

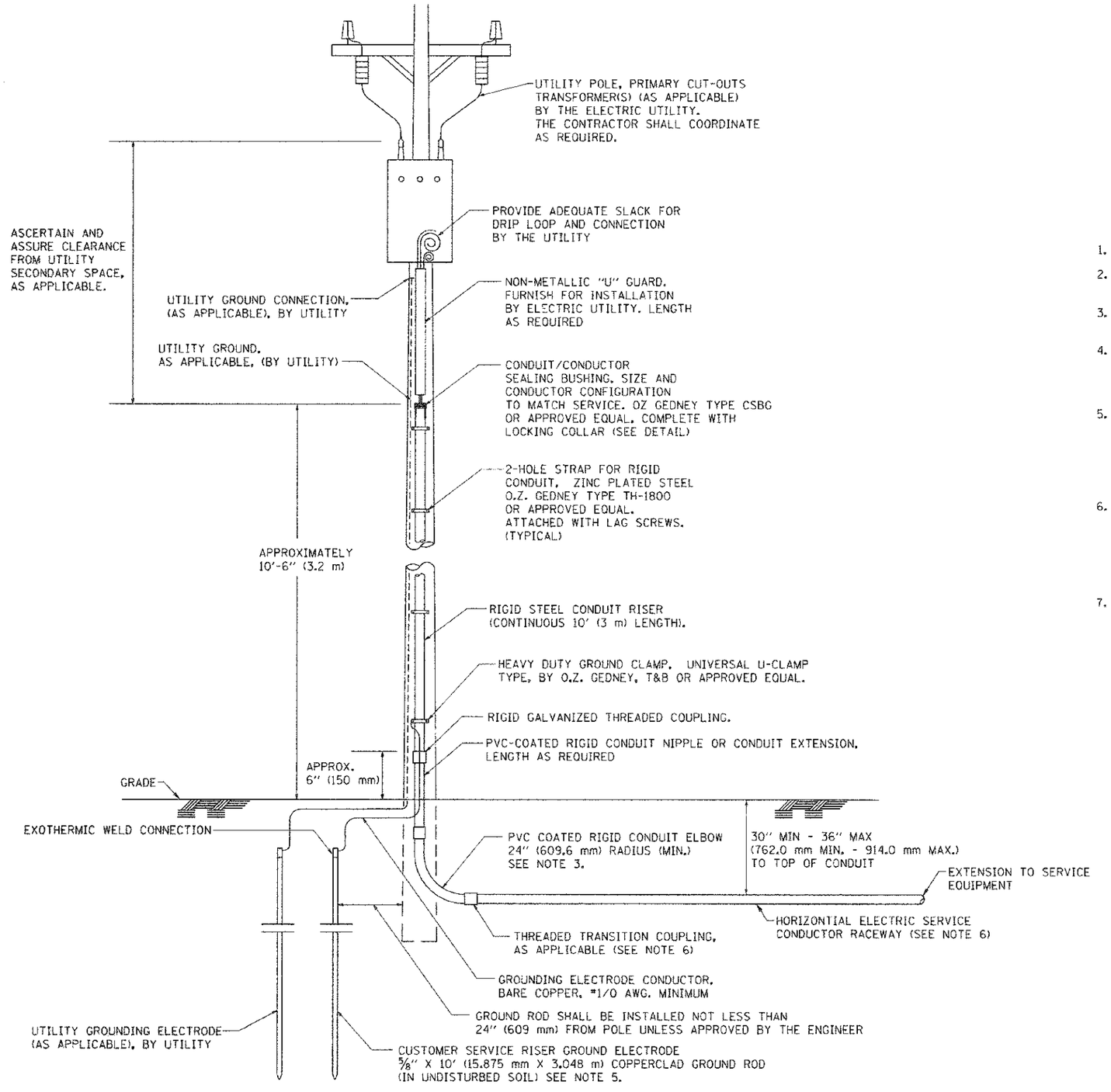
FILE NAME = M:\diststd\22x34\bd48.dgn	USER NAME = gaglienobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00
		DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00
	PLOT SCALE = 50.8000 '/ IN.	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02
	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	48
	BD-48	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

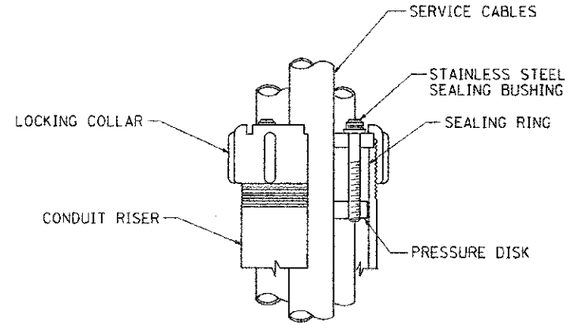


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

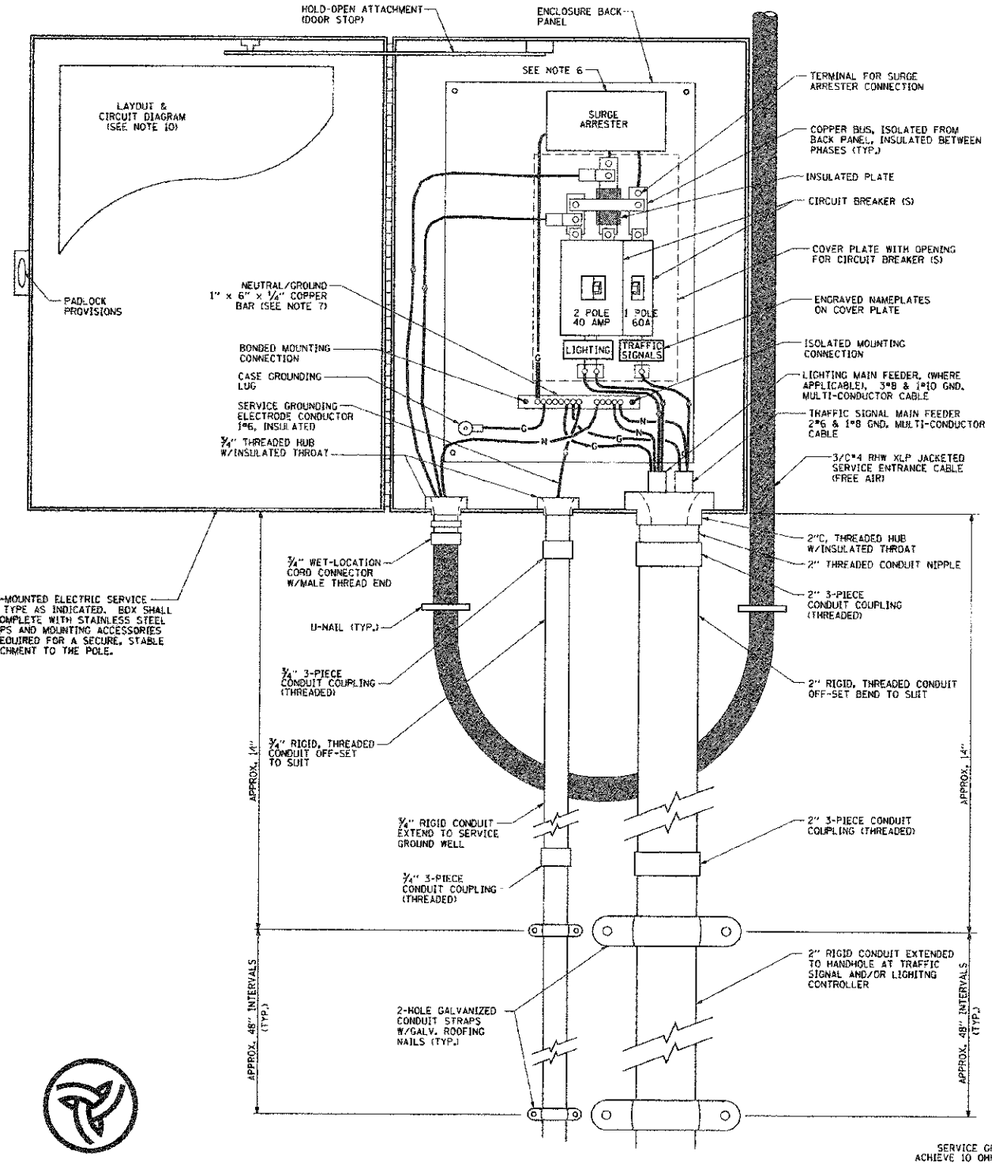
NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

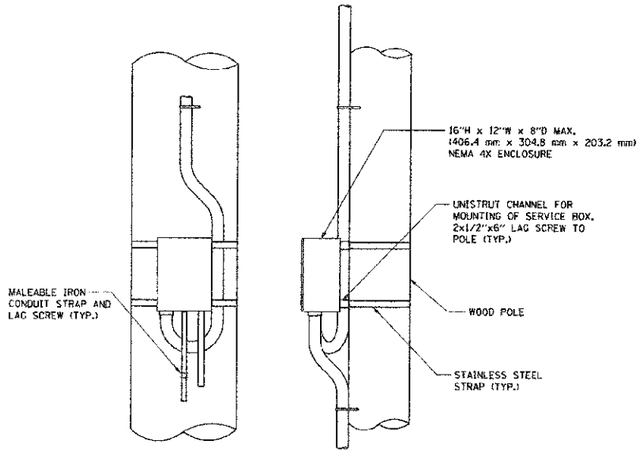


SEALING BUSHING DETAIL

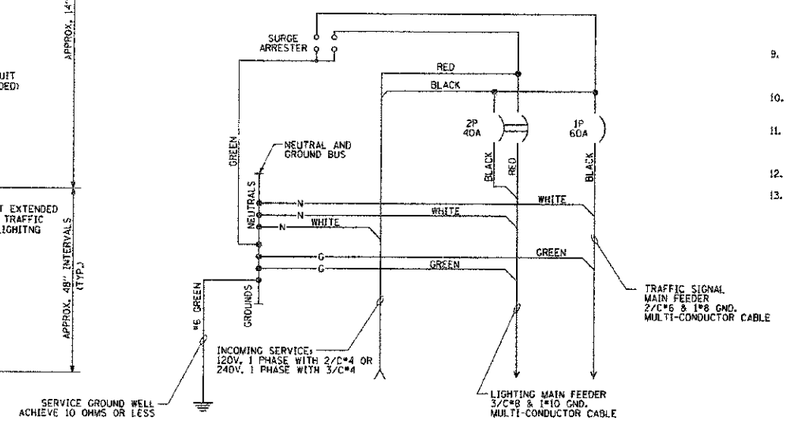
FILE NAME = W:\dsrssd\22w34\be228.dgn	USER NAME = gegibancbt	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				3002	00-00083-00-PV	DUPAGE	73	49
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - MEA	REVISED -					BE-220	CONTRACT NO. 63570		
	PLOT DATE = 1/4/2006	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



POLE-MOUNTED ELECTRIC SERVICE ENTRANCE
GENERAL LAYOUT DIAGRAM



DISCONNECT MOUNTING DETAIL
N.T.S.



SCHEMATIC DIAGRAM

NOTES:

1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
2. THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
   - TYPE A — FULLY EQUIPPED FOR 240/120V, 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
   - TYPE A1 — FULLY EQUIPPED FOR 240/120V, 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
   - TYPE B — EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 60A. TRAFFIC SIGNALS MAIN BREAKER
   - TYPE B1 — EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 40A. TRAFFIC SURVEILLANCE MAIN BREAKER
3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449. CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD. CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

6" DECAL ON FRONT COVER

FILE NAME = W:\district1\22x34\be230.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 08-13-04
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

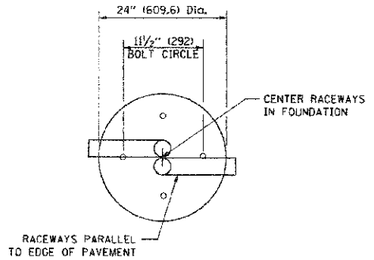
COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX DETAIL

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

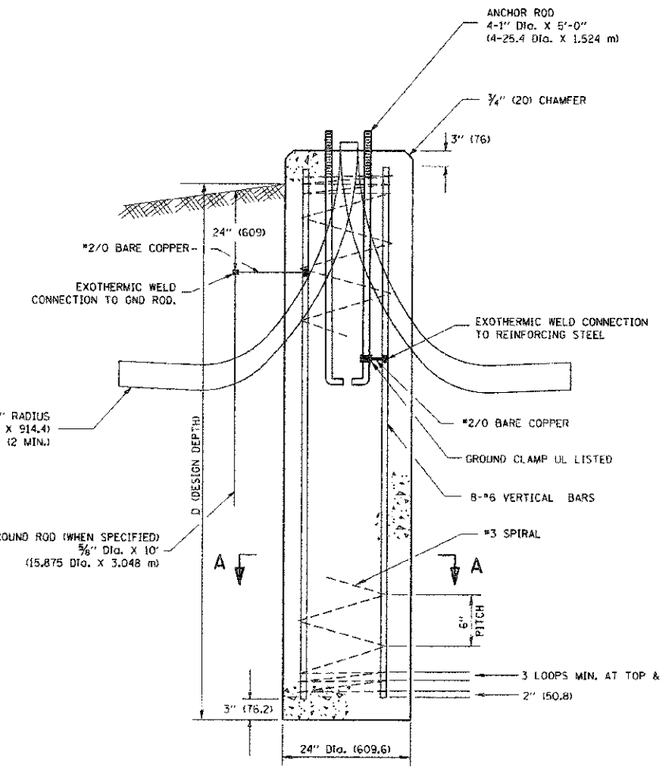
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	50
	BE-230	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

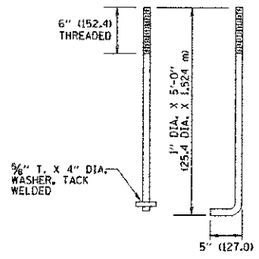
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND ø = 34°	9'-6" (2.90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



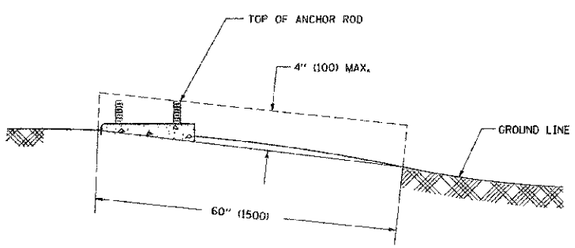
TOP VIEW



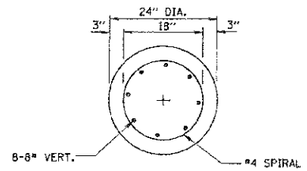
FOUNDATION DETAIL



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. 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.
4. 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.
5. 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 ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. 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.
8. 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.
9. 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 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. 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.
11. ANCHOR RODS SHALL PROJECT 2¾" (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.
12. 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.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

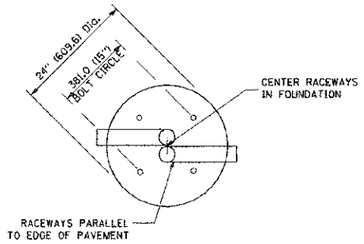
LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE

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

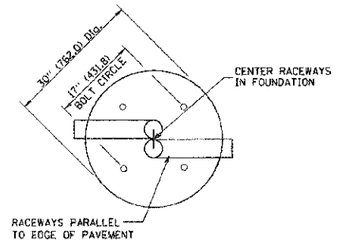
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	51
	BE-300	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

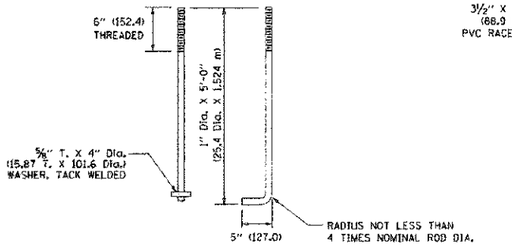
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3,96 m)	15'-0" (4,57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.89 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND Ø = 34°	9'-0" (2,74 m)	10'-0" (3.05 m)
MEDIUM SAND Ø = 37.5°	8'-3" (2.52 m)	9'-0" (2,74 m)
DENSE SAND Ø = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



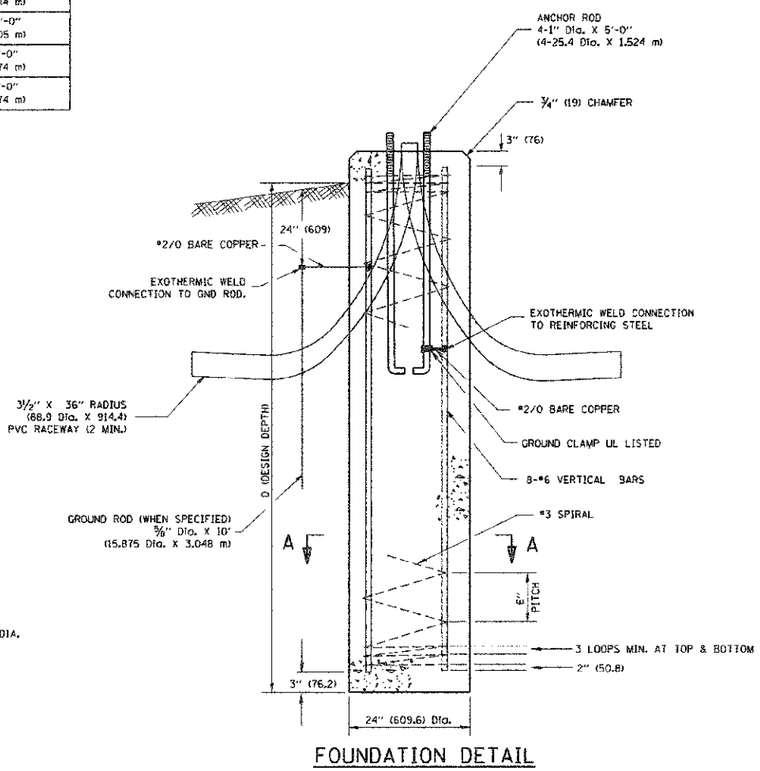
TOP VIEW



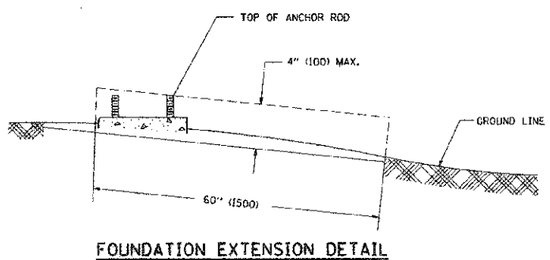
TOP VIEW



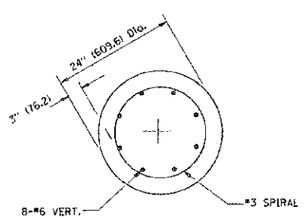
ANCHOR ROD DETAIL



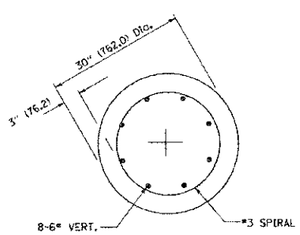
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) 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.
4. 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.
5. 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).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. 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.
8. 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.
9. 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 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. 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.
11. 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.
12. 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.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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		DRAWN -	REVISED -
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	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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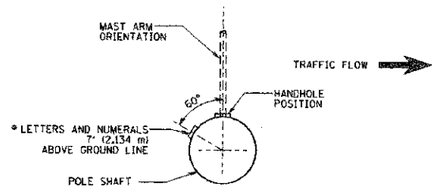
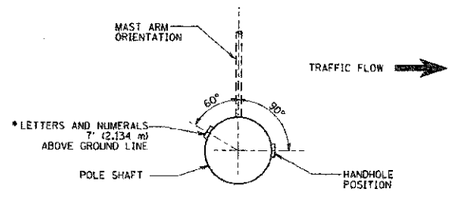
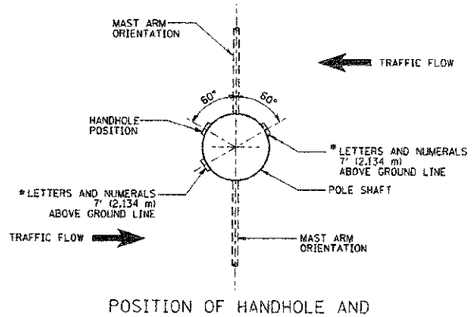
	BE-301	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



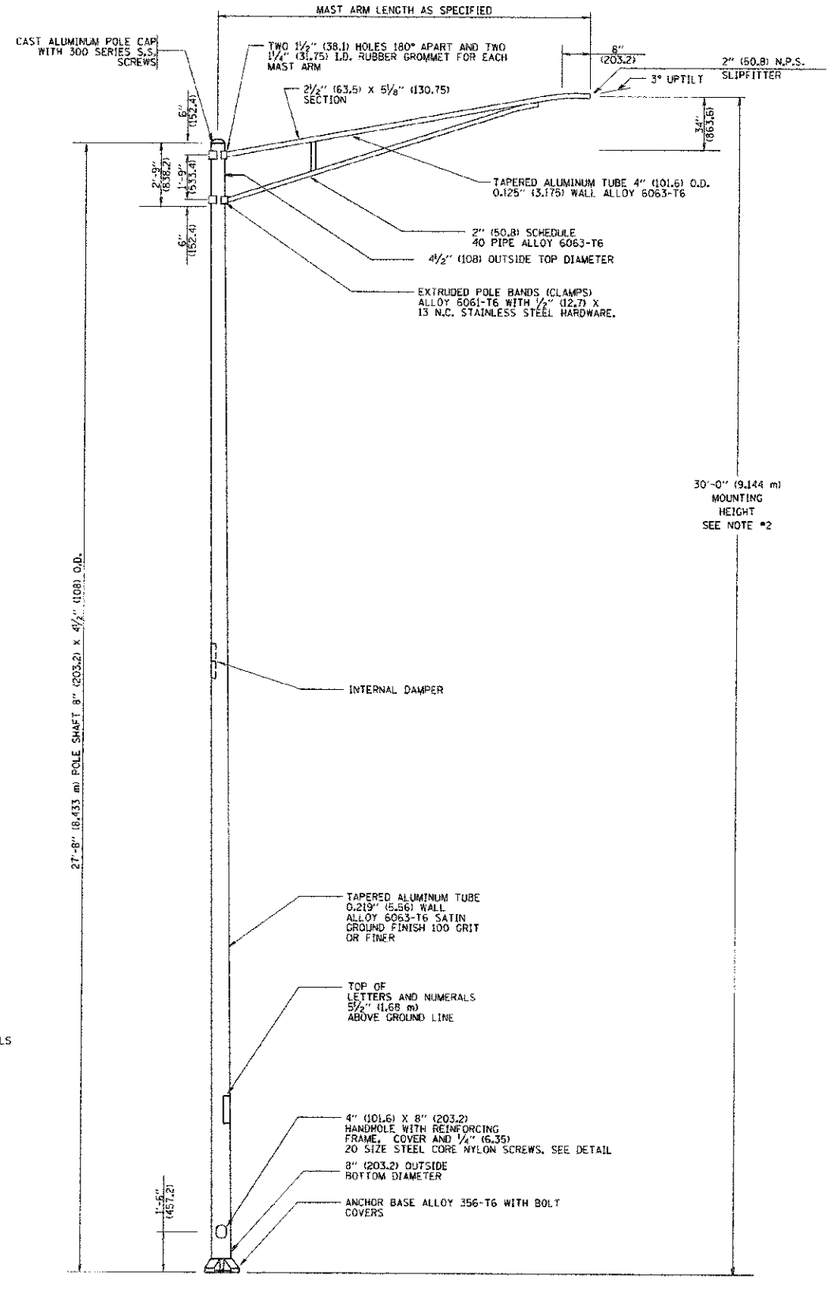
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

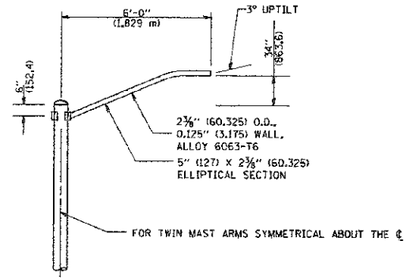


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

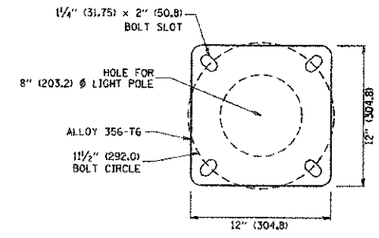




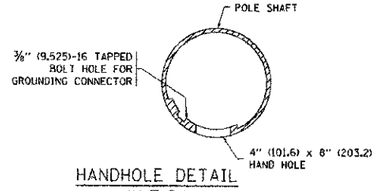
6' (1.8 m) SINGLE MEMBER MAST ARM
(N.T.S.)

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
11½" (292.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

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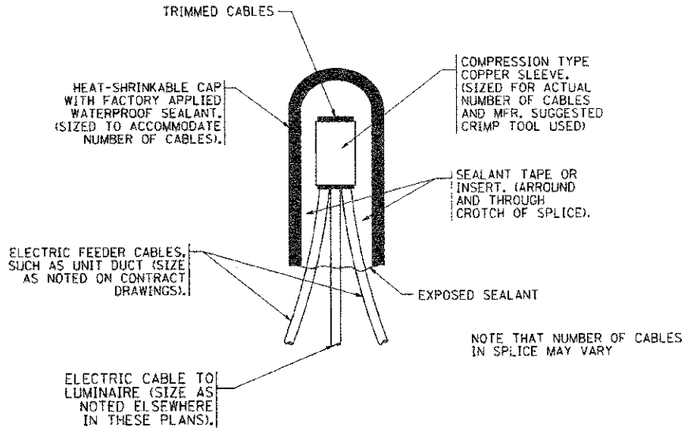
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE
30'-0" (9.144 m) MOUNTING HEIGHT

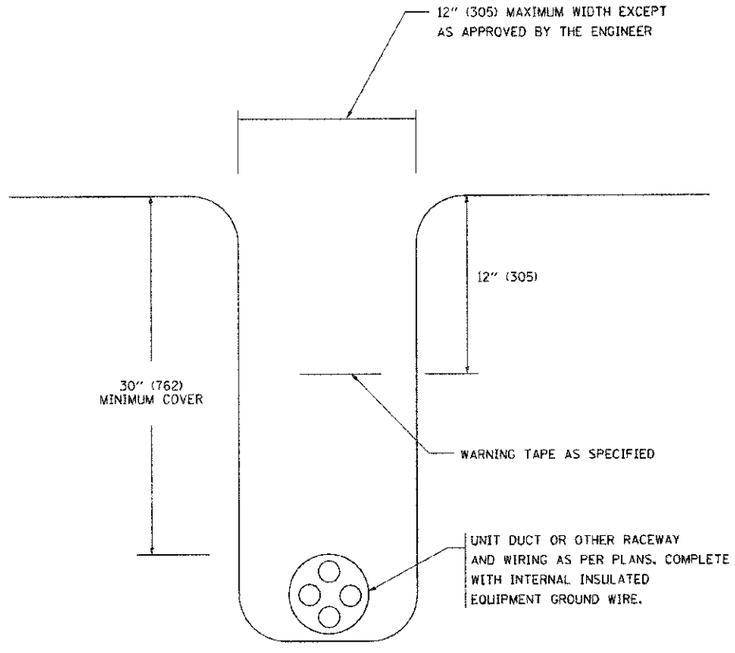
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	53
	BE-403	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



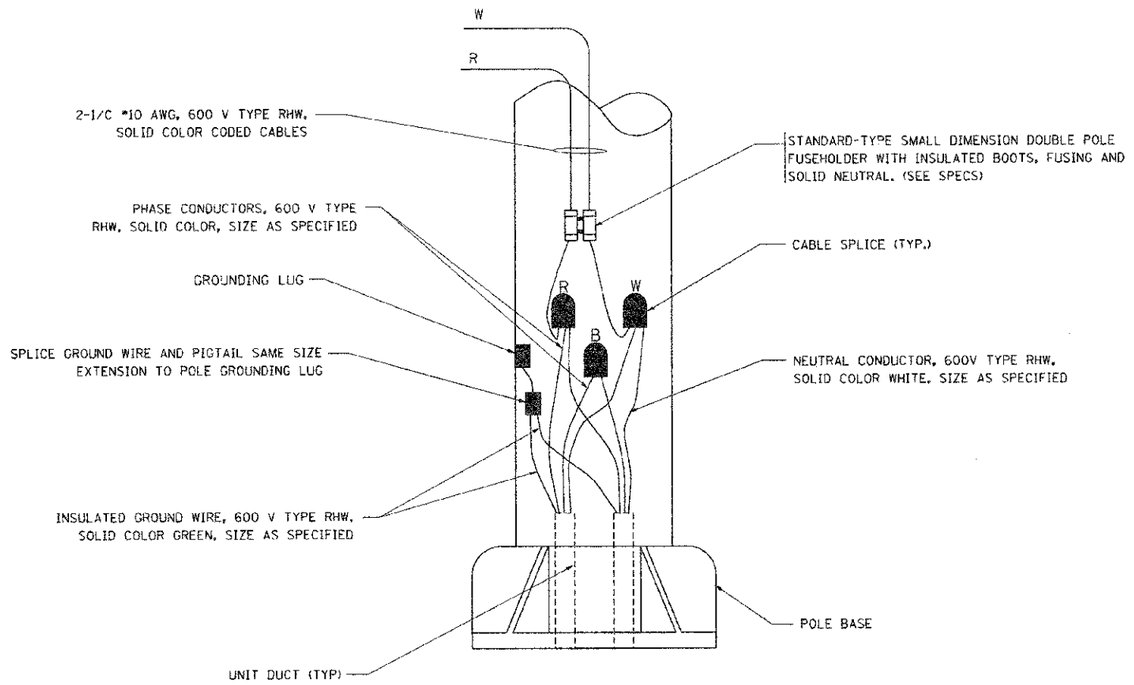
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

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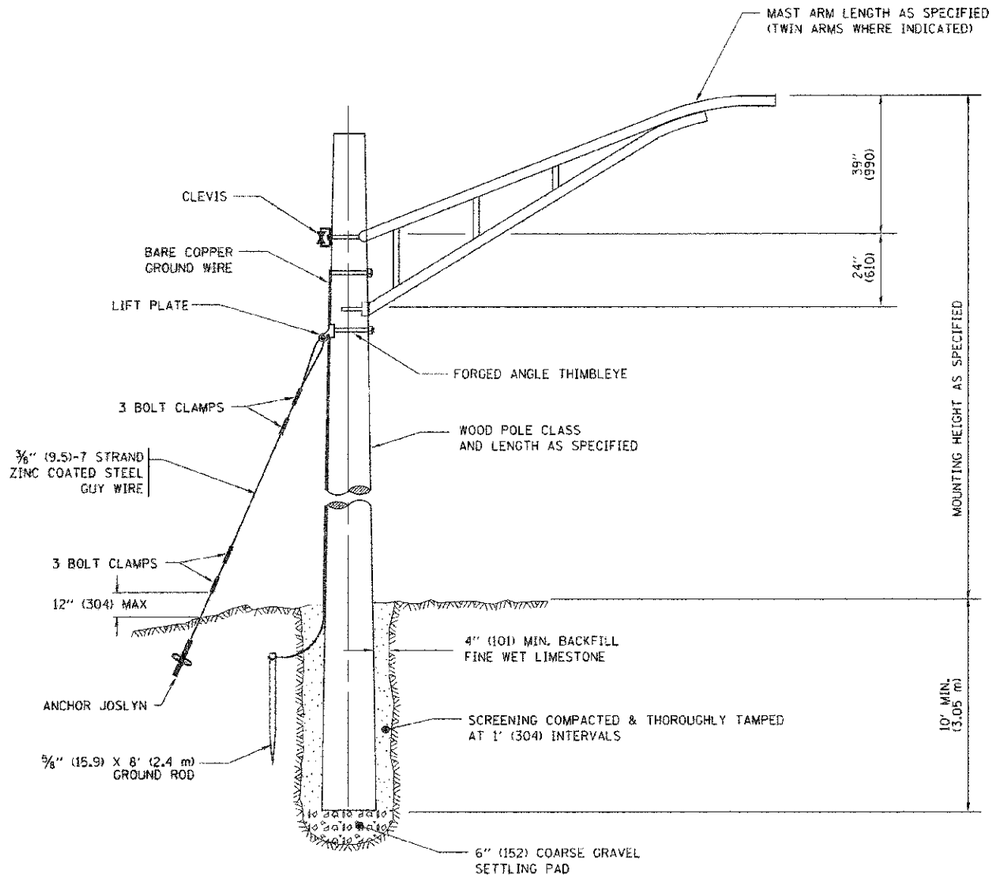
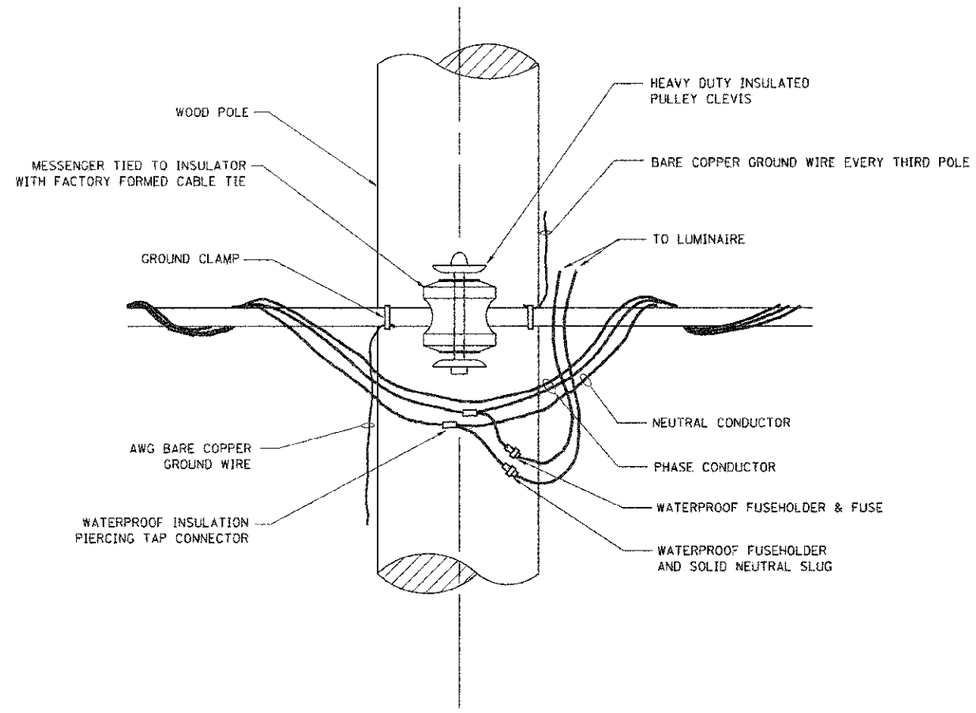
		DRAWN -	REVISED -			3002	00-00083-00-PV	DUPAGE	73	54
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -				BE-702		CONTRACT NO. 63579	
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

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		DRAWN -	REVISED -			3002	00-00083-00-PV	DUPAGE	73	55
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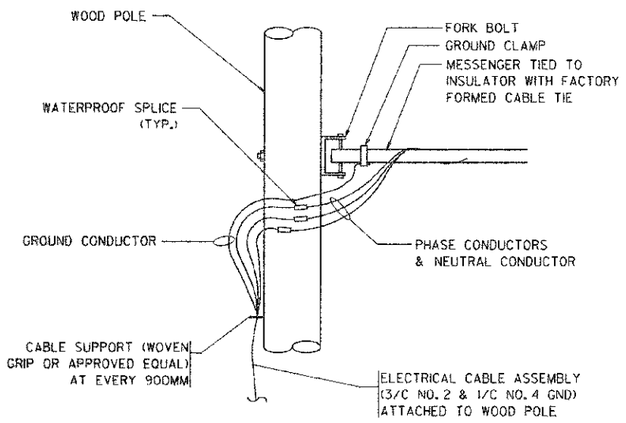

AERIAL CABLE CONNECTION DETAIL

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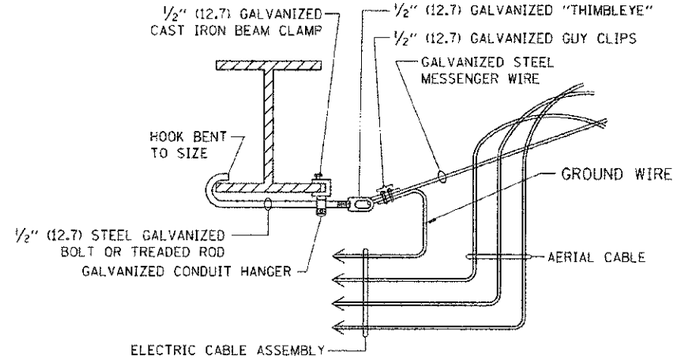
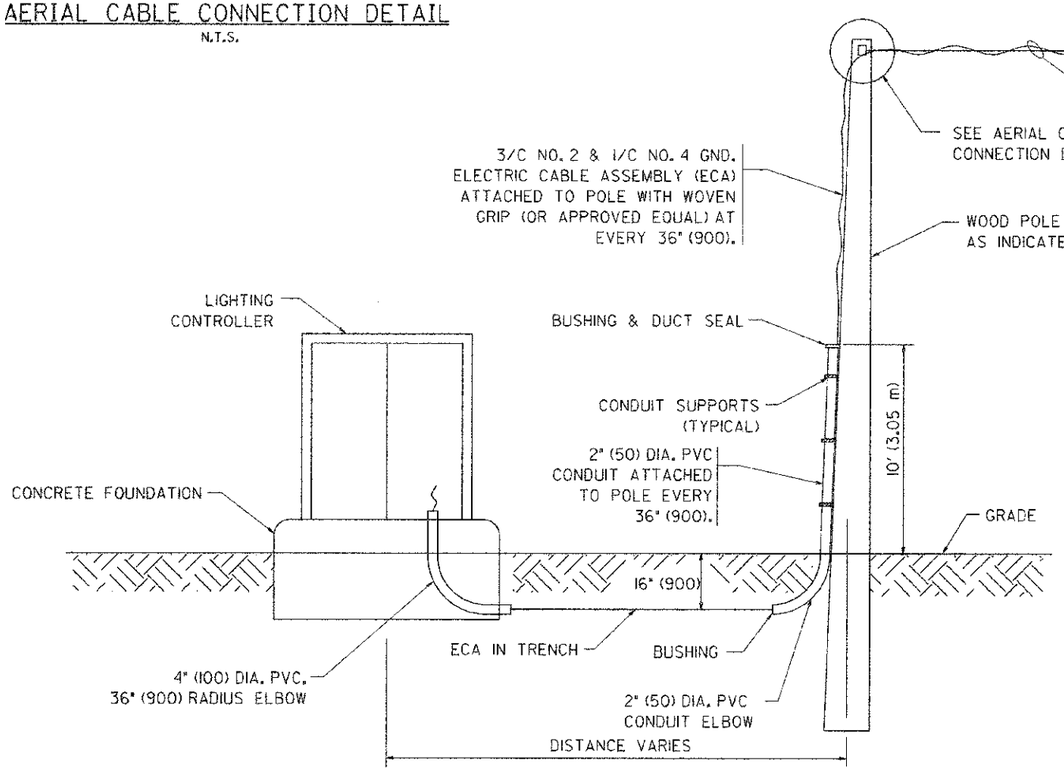


AERIAL CABLE
ATTACHED TO STRUCTURE

NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER
WIRING CONNECTION DETAIL

N.T.S.

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

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		DRAWN -	REVISED -
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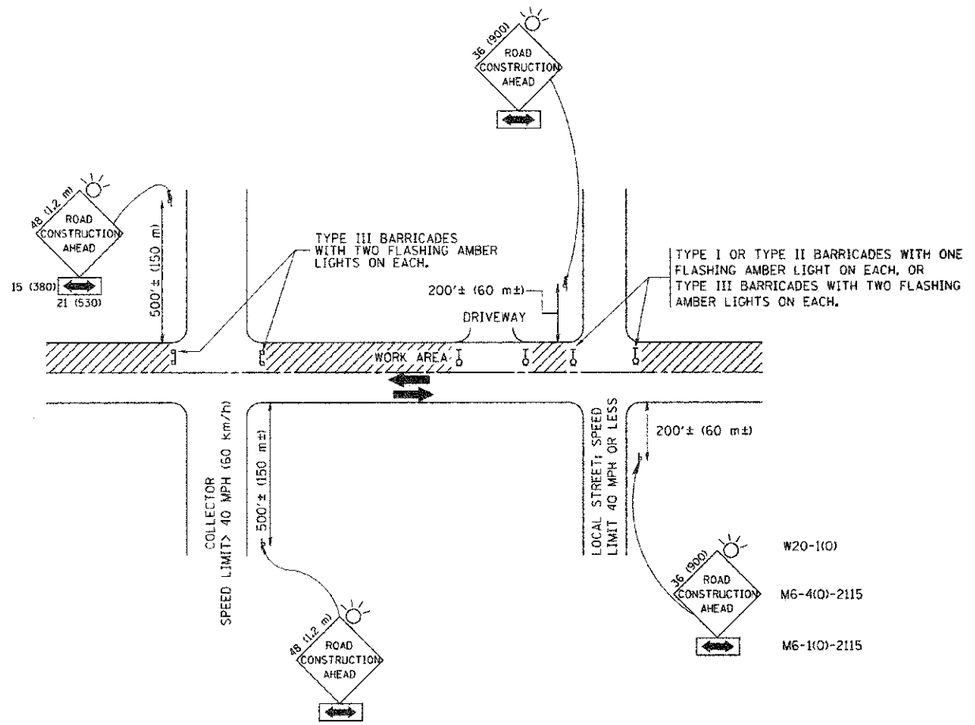
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	56
	BE-801	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 Km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 Km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

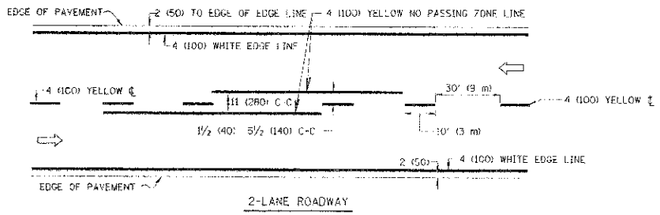
FILE NAME = W:\sheets\tc10.dgn	USER NAME = gaglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

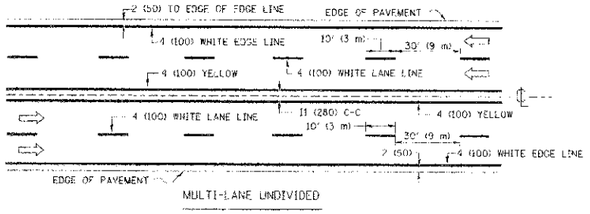
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

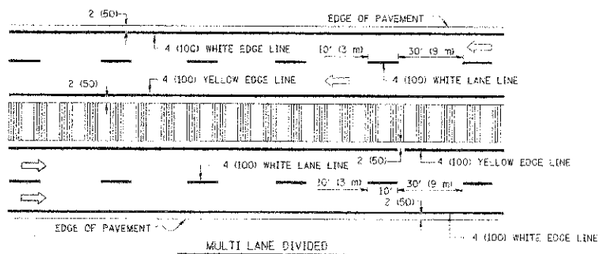
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	57
	TC-10	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



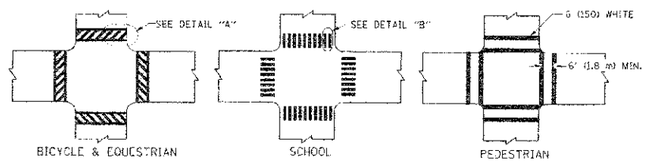
MULTI-LANE UNDIVIDED



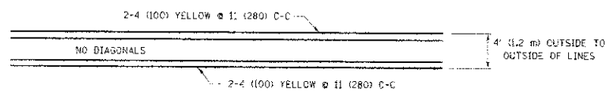
MULTI LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

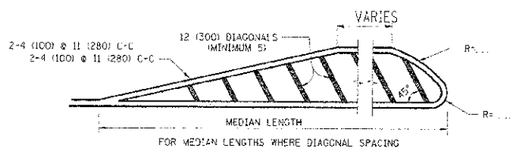
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



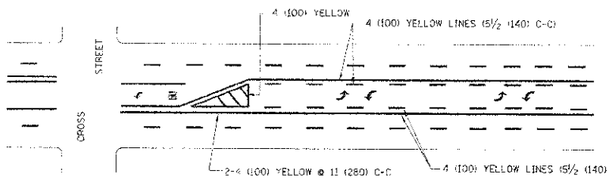
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

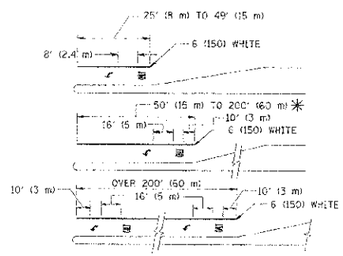
MEDIANS OVER 4' (1.2 m) WIDE



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

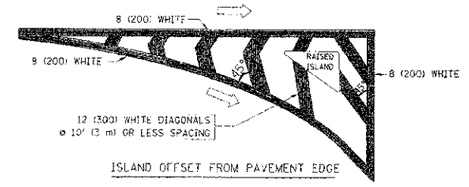


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ; ⬆ AREA = 20.8 SQ. FT. (1.9 m²)

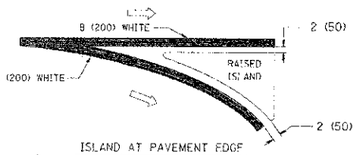
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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	5½ (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; 5½ (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 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²); EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

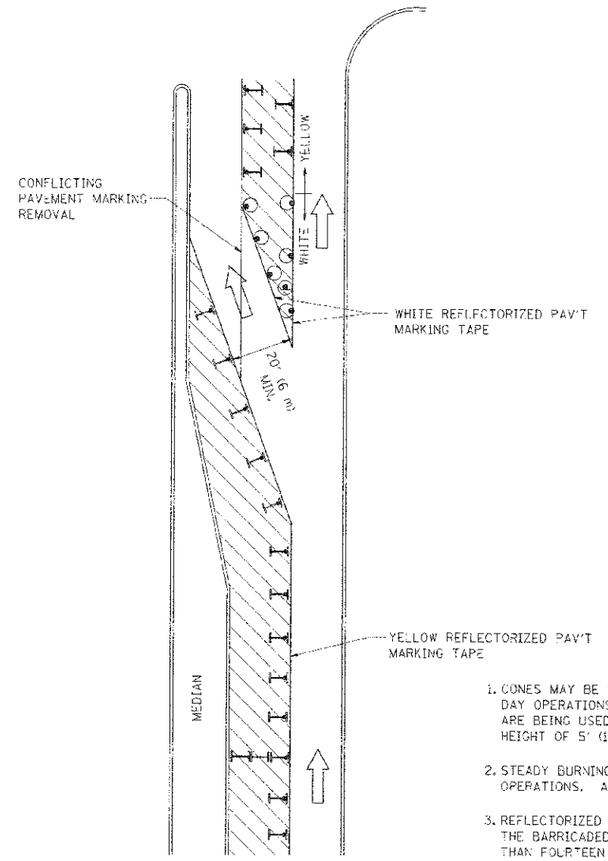
FILE NAME =	USER NAME = devaeron	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE 03-19-90	REVISED -

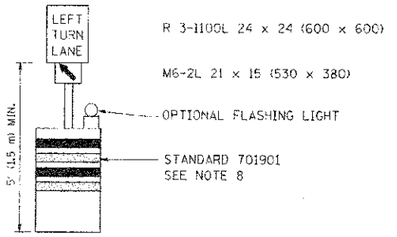
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2002	00-00083-00-PV	DUPAGE	73	58
	TC-13	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

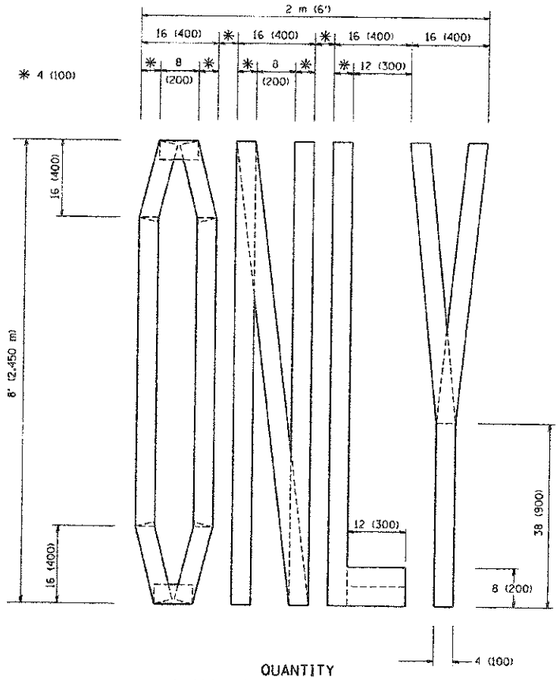
FILE NAME = e:\pw_work\PWD00T\D0870KOSGA\d0870833\tc14.dgn	USER NAME = dpivnknagn	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9996 ' / IN.	REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT DATE = 9/16/2009	REVISED - A. HOUSEH 10-12-96	REVISED -
		REVISED -T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

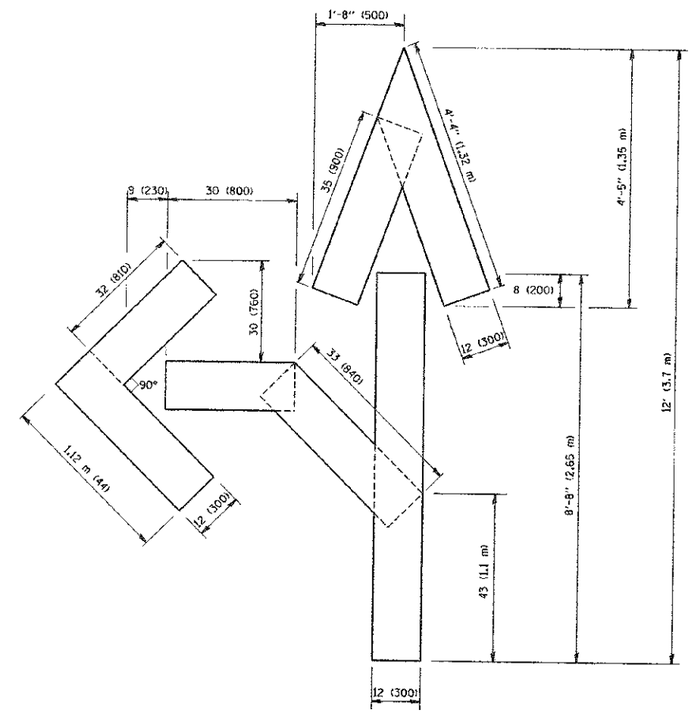
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

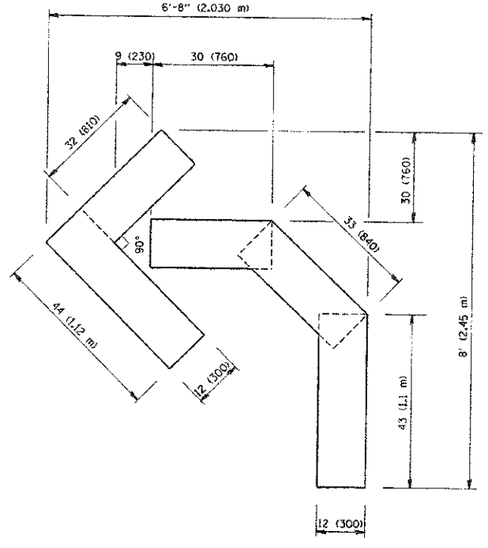
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	59
	TC-14	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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



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



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

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

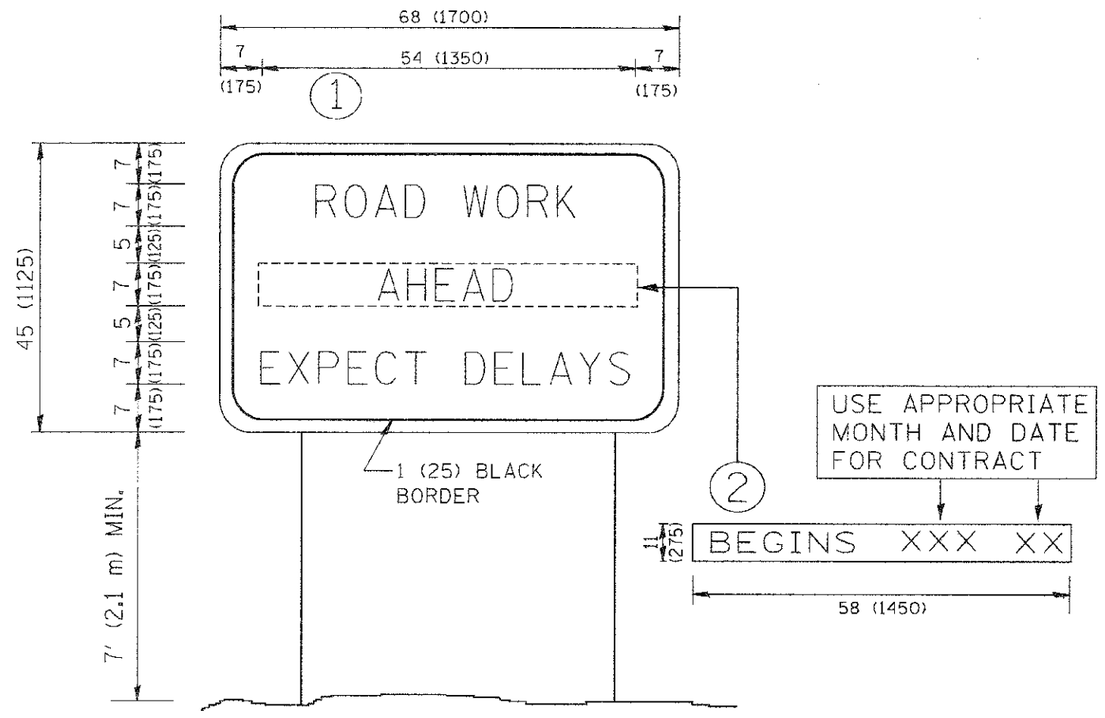
FILE NAME = W:\diststd\22-34\tc16.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2000	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	60
	TC-16	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

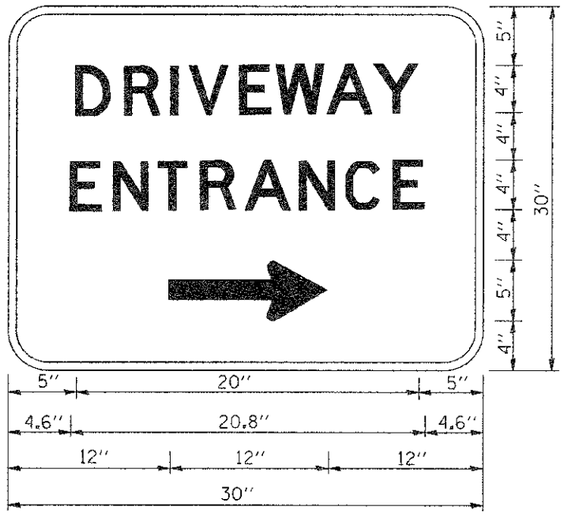
FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglionobc	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	61
	TC-22	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = W:\dist6td\22x34\tc26.dgn	USER NAME = gagliarout	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

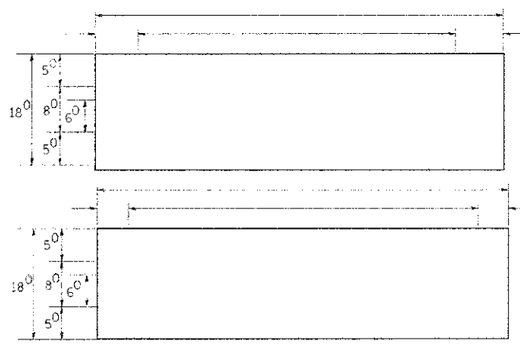
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00093-00-PV	DUPAGE	73	62
	TC-26	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PANEL SIGN DESIGN TYPE 1

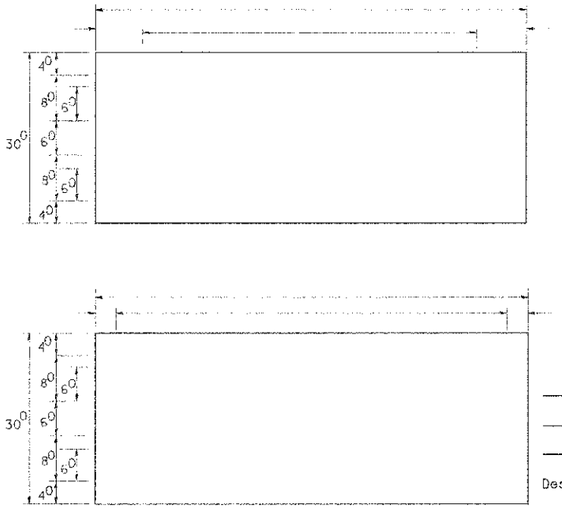


___ Sq. M. each
___ Sq. Ft. each
___ Required
Design Series ___

___ Sq. M. each
___ Sq. Ft. each
___ Required
Design Series ___

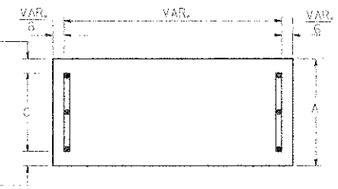
NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

PANEL SIGN DESIGN TYPE 2

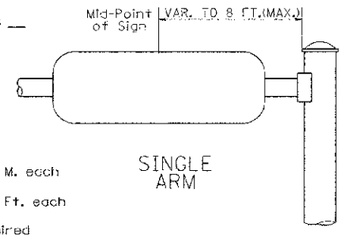


___ Sq. M. each
___ Sq. Ft. each
___ Required
Design Series ___

SUPPORTING CHANNELS

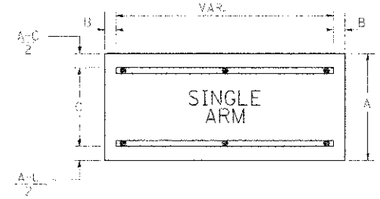


A	B	C
18"	2"	14"



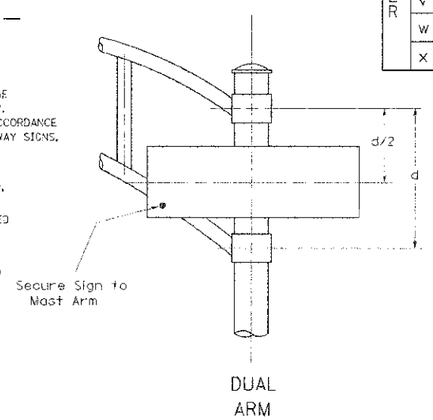
SINGLE ARM

SUPPORTING CHANNELS



SINGLE ARM

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



DUAL ARM

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
4. ALL BORDERS SHALL BE ¾" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

* J.O. HERBERT CO.
MIDLOTHIAN, VA.

* WESTERN REMAC INC.
WOODRIDGE, IL.

PARTS LISTING:

SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	¼" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

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

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

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{2}	1^{4}
B	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{6}	1^{7}
C E G	1^{4}	1^{5}	2^{0}	2^{1}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
D O Q R	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
F	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}
H I M N	2^{0}	2^{1}	2^{2}	2^{4}	2^{0}	2^{1}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}	2^{0}	2^{1}
J U	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}
K L	1^{1}	1^{2}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
P	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
S	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
T	1^{1}	1^{2}	1^{6}	1^{7}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
V	0^{6}	1^{0}	1^{4}	1^{5}	1^{1}	1^{2}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
Y	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{5}	0^{7}	0^{5}	0^{6}	0^{6}	1^{0}	1^{1}	1^{2}
Z	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}

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

FIRST LETTER	SECOND LETTER: a c d e		b h i k l m n p q u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j l m n q u	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}
b f k o p s	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
c e	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
r	0^{6}	1^{0}	1^{2}	1^{4}	0^{6}	1^{0}	0^{3}	0^{3}	0^{5}	0^{6}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}
t z	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
v y	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}
w	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
x	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}

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

FIRST NUMBER	SECOND NUMBER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}
1	2^{0}	2^{1}	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}
2 3 4	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{5}	1^{7}	1^{4}	1^{5}
5	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
6	1^{6}	1^{7}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
7	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{5}	0^{5}	0^{6}	1^{2}	1^{4}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}
8	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{4}	1^{5}

EXAMPLE, $2\overset{3}{\frown}$ DENOTES $\frac{3}{8}$"

UPPER AND LOWER CASE LETTER WIDTHS

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

NUMBER	6 INCH SERIES, C	6 INCH SERIES, D	8 INCH SERIES, C	8 INCH SERIES, D
1	1^{2}	1^{4}	1^{5}	2^{0}
2	3^{2}	4^{0}	4^{3}	5^{3}
3	3^{2}	4^{0}	4^{3}	5^{3}
4	3^{5}	4^{3}	4^{7}	5^{7}
5	3^{2}	4^{0}	4^{3}	5^{3}
6	3^{2}	4^{0}	4^{3}	5^{3}
7	3^{2}	4^{0}	4^{3}	5^{3}
8	3^{2}	4^{0}	4^{3}	5^{3}
9	3^{2}	4^{0}	4^{3}	5^{3}
0	3^{4}	4^{2}	4^{5}	5^{5}

FILE NAME =	USER NAME = bwarnick	DESIGNED - DAG/BCK	REVISED - DAG 10/26/09
		DRAWN - BCK	REVISED
	PLOT SCALE = 4.0000 ' / IN.	CHECKED - DAG/DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE - 03-15-09	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	63
	TS-02	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

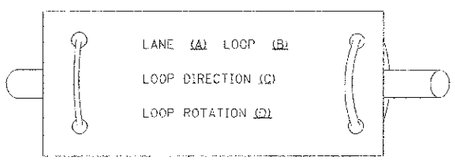
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED. AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

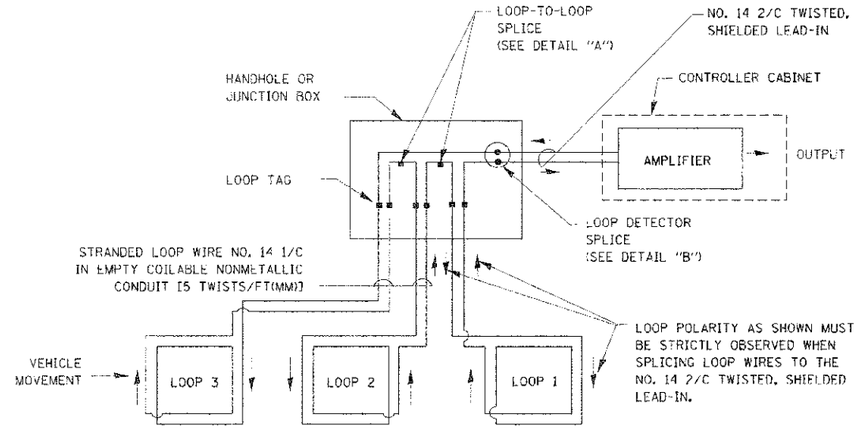


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

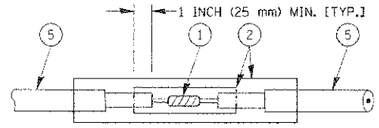
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

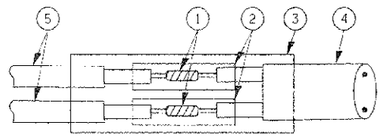


DETECTOR LOOP WIRING SCHEMATIC

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

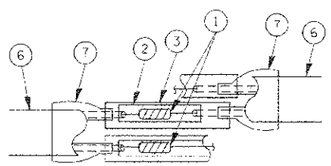


DETAIL "A"
LOOP-TO-LOOP SPLICE



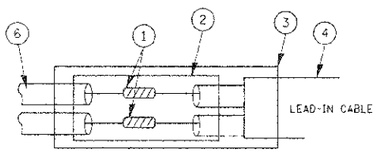
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

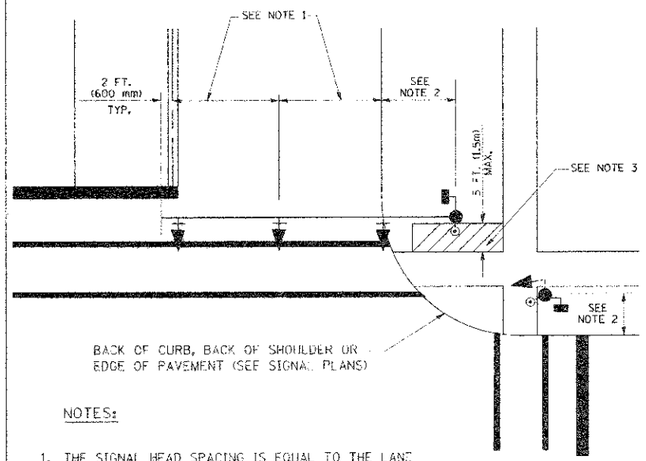
(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bsingerl	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE
		DRAWN - BCK	REVISED -		STANDARD TRAFFIC SIGNAL DESIGN DETAILS
	PLOT SCALE = 50.2000 ' / IN.	CHECKED - DAD	REVISED -		SCALE: NONE / SHEET NO. 1 OF 6 SHEETS / STA. / TO STA.
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	64
	TS-05	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

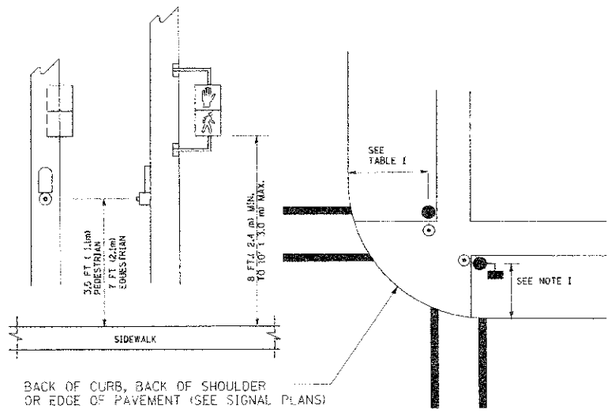
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

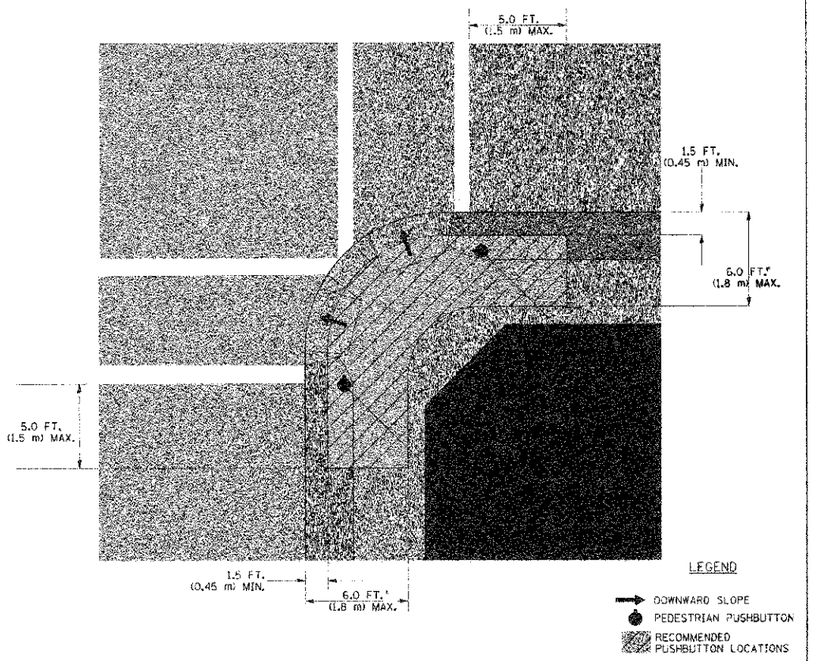
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 886000 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

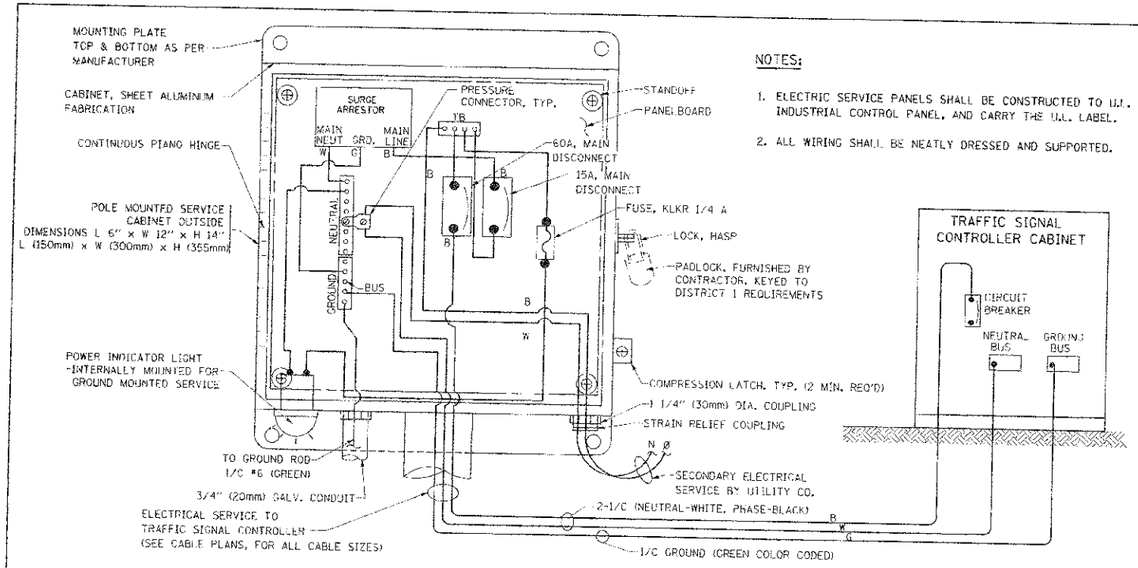
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

FILE NAME = e:\pwwork\PWDOT\d0ACEROIL\d0165\\d0165.dgn	USER NAME = Boomer	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 12/7/2009	DATE 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00063-00-PV	DUPAGE	73	65
	TS-05	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



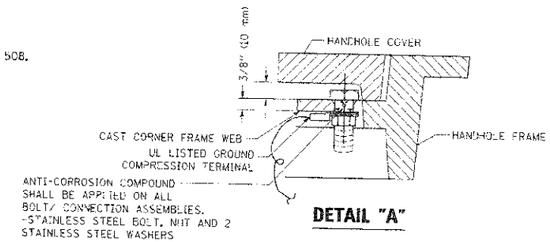
NOTES:

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

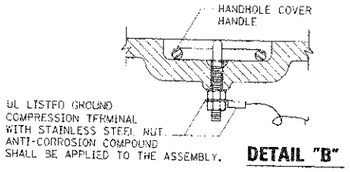
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

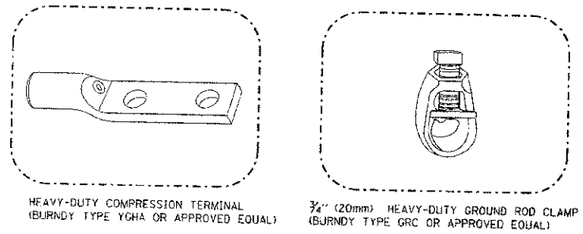


DETAIL "B"

NOTES:

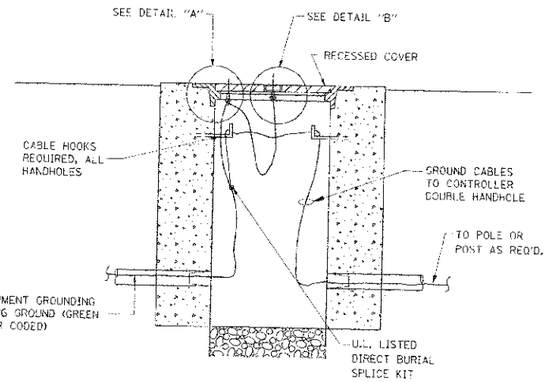
GROUNDING SYSTEM

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



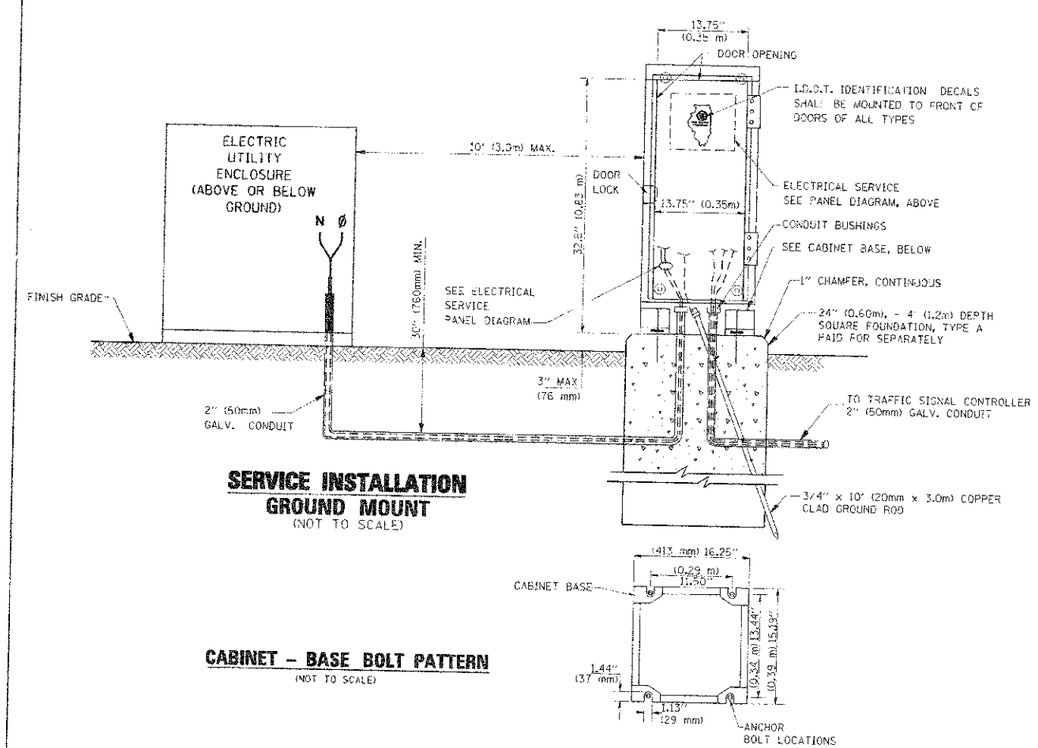
NOTES:

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



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

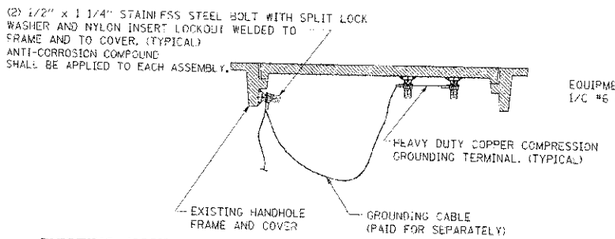


SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

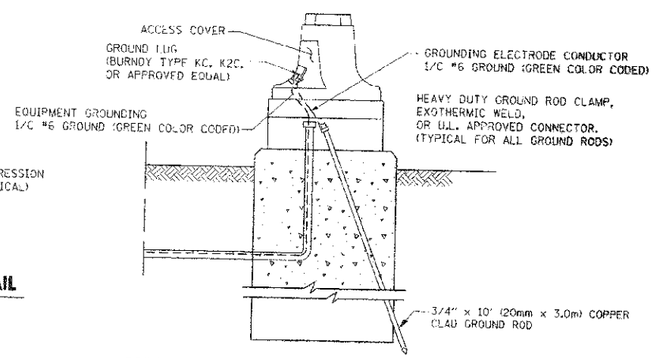
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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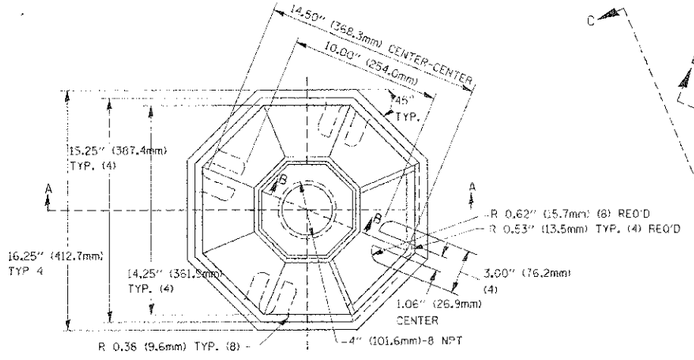
		DRAWN - RCK	REVISED
	PLOT SCALE = 50.3802 ' / IN.	CHECKED - DAD	REVISED
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

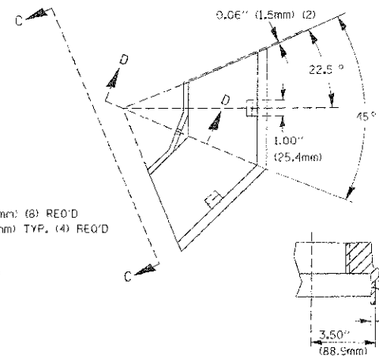
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

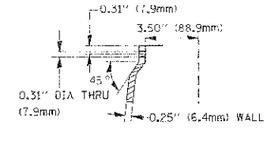
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083 00-PV	DUPAGE	73	66
	TS-05	CONTRACT NO. 63379		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



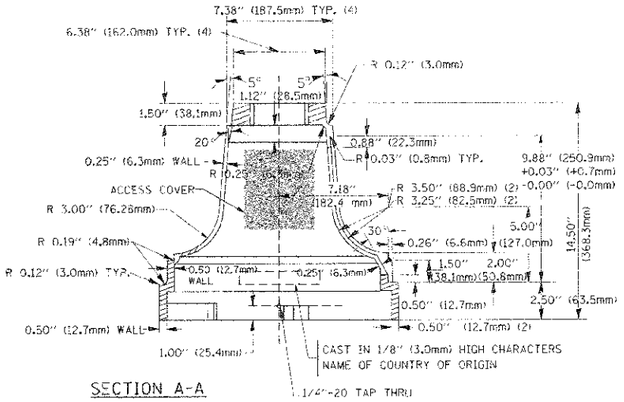
TOP VIEW



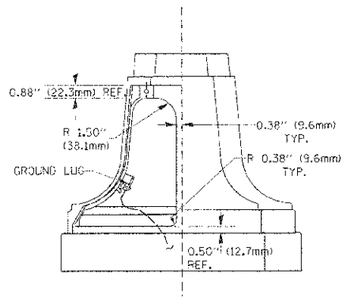
SECTION B-B



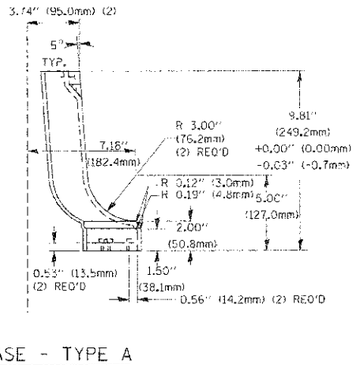
SECTION D-D



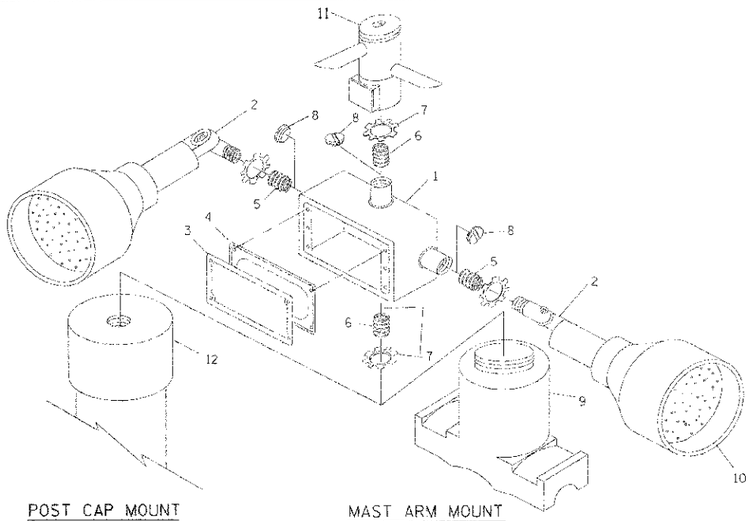
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



POST CAP MOUNT

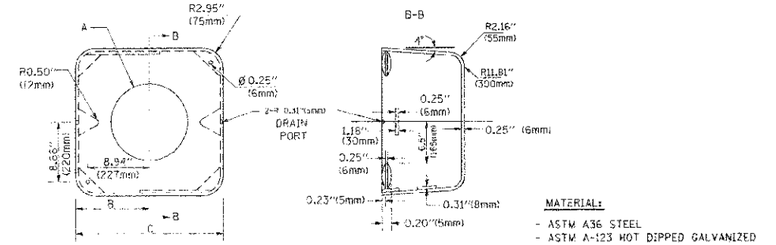
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-G-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

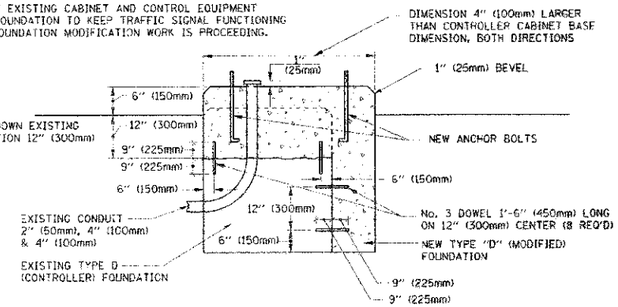
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

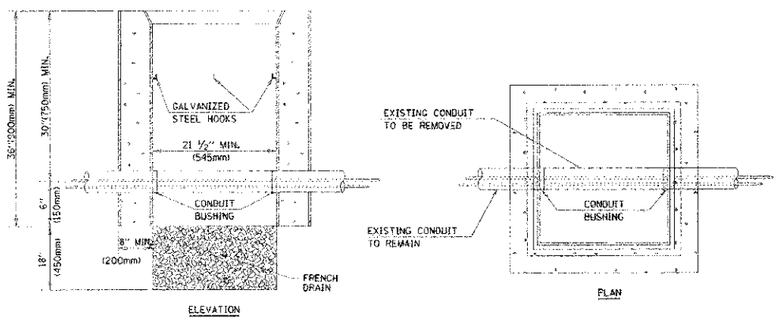
NOTES:

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

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

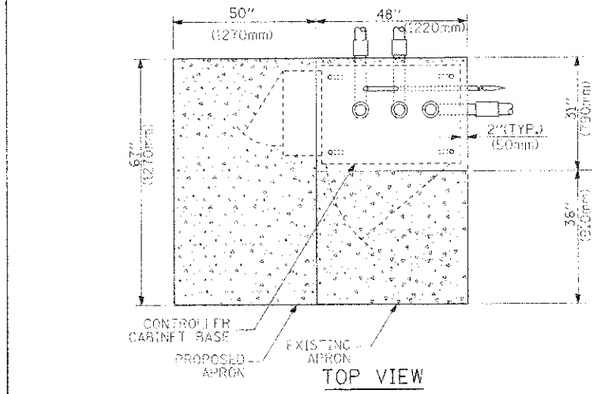
FILE NAME =	USER NAME = bowmdl	DESIGNED - DAD	REVISED
		DRAWN - BCK	REVISED
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - DAD	REVISED
	PLOT DATE = 11/4/2020	DATE - 10-28-09	REVISED

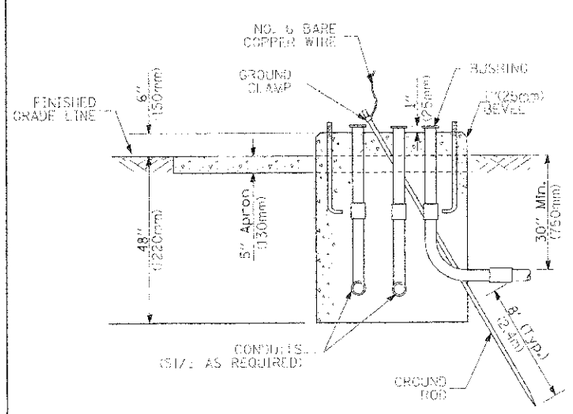
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

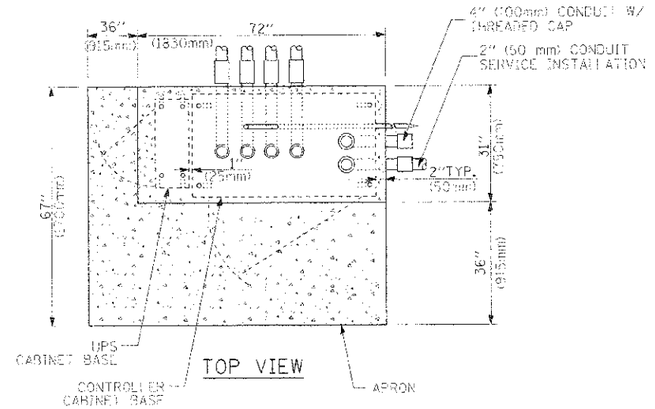
SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

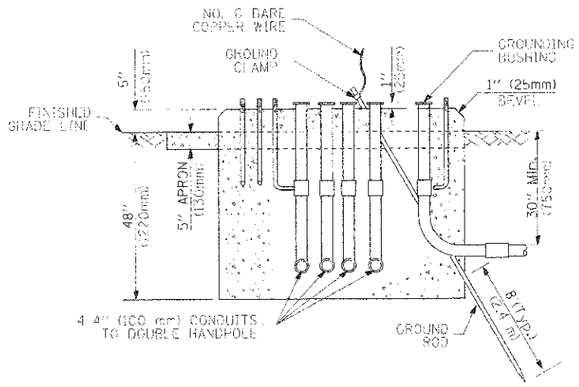
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	67
	TS-05	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



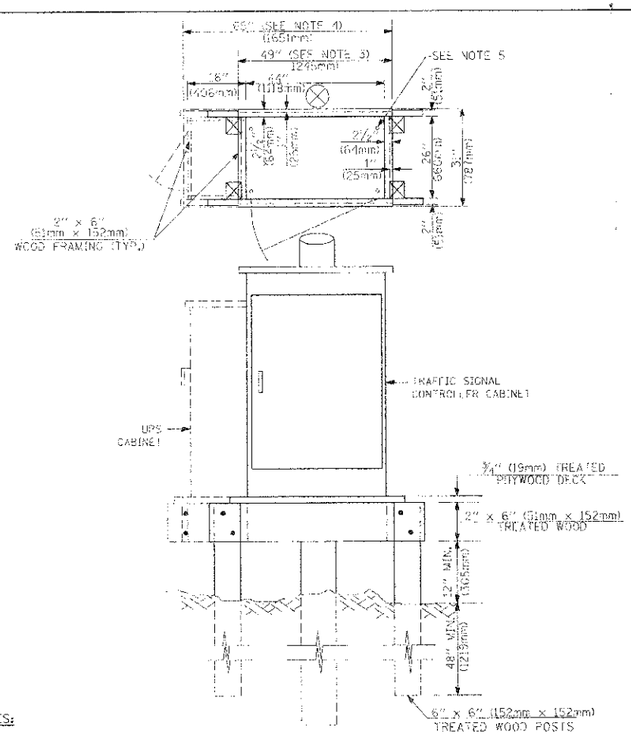


TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET





TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1116mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Cu) > 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 duct arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME =	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE =	CHECKED - DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	58
	TS-05	CONTRACT NO. 63579		
FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT			

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

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

103+00.00 — EXC = 61 SQ. FT. EMB = 0 SQ. FT. — 18" SS — EX ROW

102+50.00 — EXC = 61 SQ. FT. EMB = 0 SQ. FT. — 18" SS — EX ROW

102+05.26 — EXC = 64 SQ. FT. EMB = 0 SQ. FT. — EX ROW

102+00.00 — EXC = 66 SQ. FT. EMB = 0 SQ. FT. — EX ROW

101+50.00 — EXC = 58 SQ. FT. EMB = 0 SQ. FT. — EX ROW

101+46.81 — EXC = 57 SQ. FT. EMB = 0 SQ. FT. — EX ROW

101+00.00 — EXC = 61 SQ. FT. EMB = 0 SQ. FT. — EX ROW — PR ROW

100+50.00 — EXC = 81 SQ. FT. EMB = 0 SQ. FT. — EX ROW

SEE OGDEN AVENUE CROSS SECTIONS

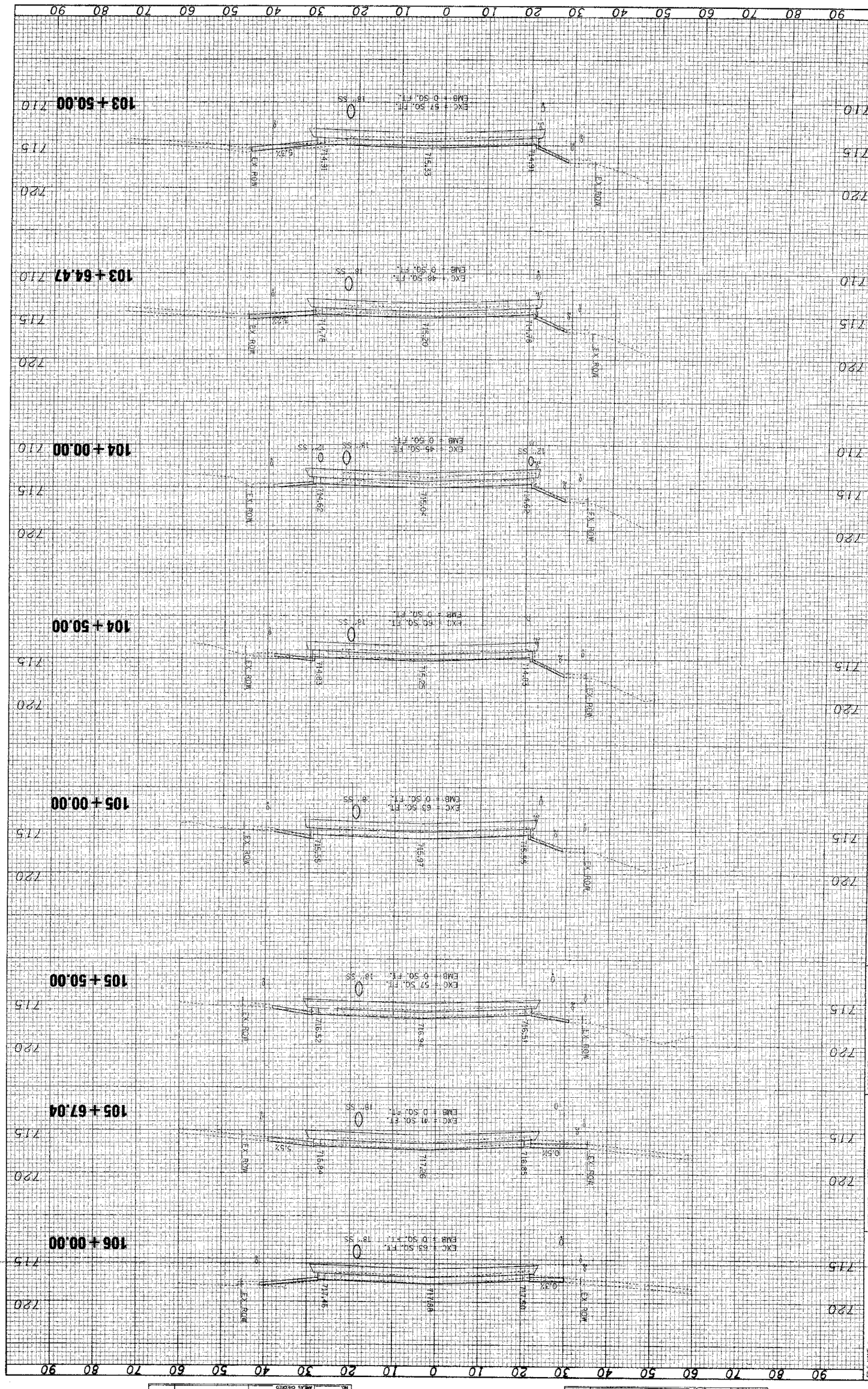
FILE NAME = $FILSEL$	USER NAME = $USER$	DESIGNED - MAP	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -
	PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE
CROSS SECTIONS

SCALE: 10H / 5V | SHEET NO. 1 OF 3 SHEETS | STA. 100+50.00 TO STA. 103+00.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	69
		CONTRACT NO. 63579		
		ILLINOIS FED. AID PROJECT		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE
CROSS SECTIONS

SCALE: 10H / 5V | SHEET NO. 2 OF 3 SHEETS | STA. 103+50.00 TO STA. 106+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	70

CONTRACT NO. 63579
ILLINOIS FED. AID PROJECT

DESIGNED	-	MAP	
DRAWN	-		
CHECKED	-	WAS	
DATE	-	03/28/11	

REVISED -
REVISED -
REVISED -

USER NAME = $USERNAME
PLOT SCALE = $SCALE$
PLOT DATE = $DATE$

FILE NAME = $FILEL$

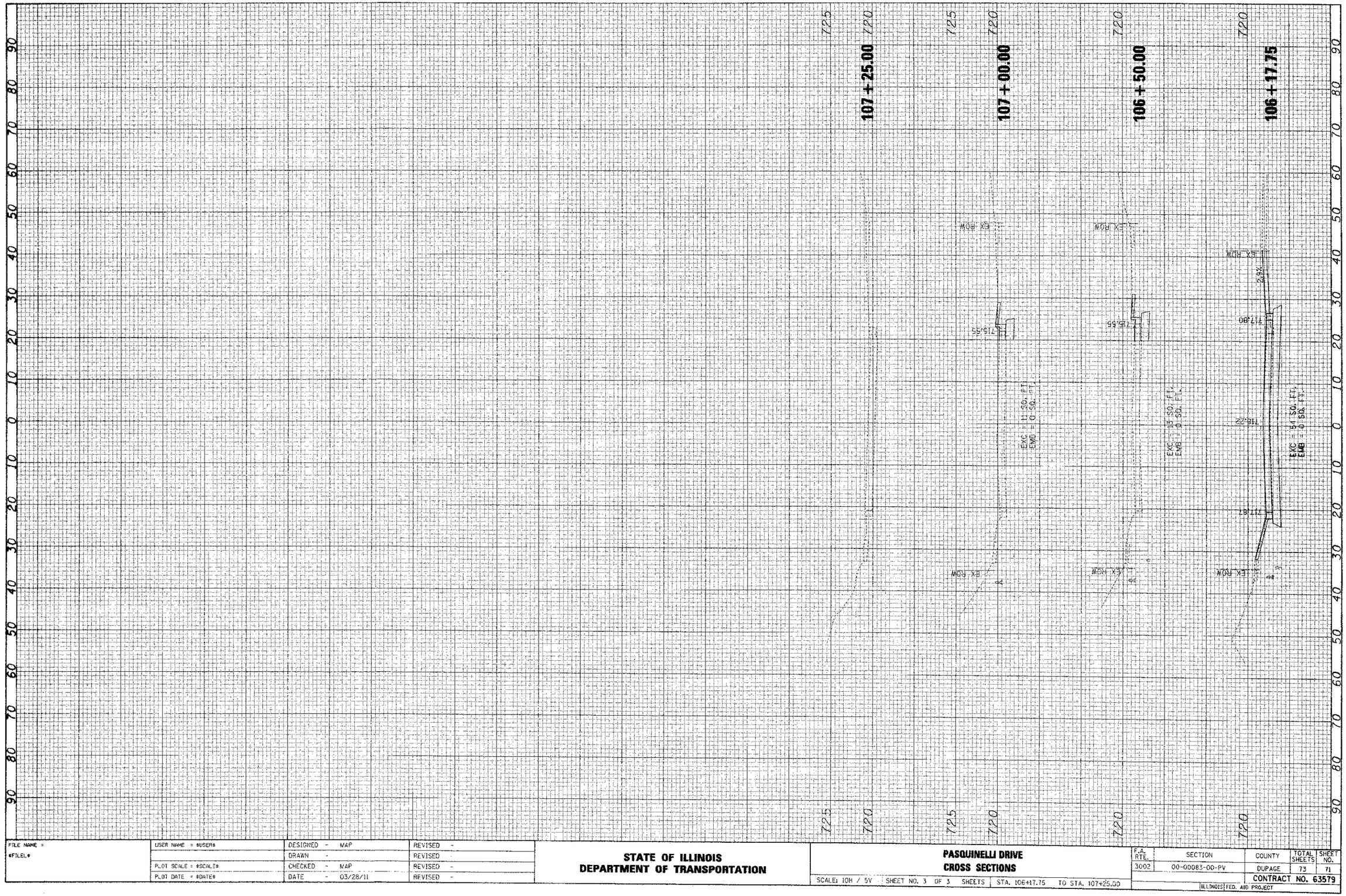
ORIGINAL	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	

FINAL	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	

NO.		BY	DATE

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

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



FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - MAP	REVISED -
		DRAWN -	REVISED
	PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -
	PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASQUINELLI DRIVE
CROSS SECTIONS

SCALE: 10H / 5V | SHEET NO. 3 OF 3 SHEETS | STA. 106+17.75 TO STA. 107+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	71
		CONTRACT NO. 63579		
	ILLINOIS	FED. AID PROJECT		

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

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

211+50.00 **211+00.00** **210+50.00** **210+00.00** **209+50.00** **209+00.00** **208+50.00**

EXC = 28 SQ. FT.
EMB = 4 SQ. FT.

EXC = 34 SQ. FT.
EMB = 2 SQ. FT.

EXC = 29 SQ. FT.
EMB = 5 SQ. FT.

EXC = 32 SQ. FT.
EMB = 10 SQ. FT.

EXC = 33 SQ. FT.
EMB = 18 SQ. FT.

EXC = 34 SQ. FT.
EMB = 0 SQ. FT.

EXC = 69 SQ. FT.
EMB = 0 SQ. FT.

24" SS

EX ROW
PR ROW
PR TE
EX 90W
EX 30W
PR 30W

SEE PAVEMENT LI DR CROSS SECTIONS

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - MAP	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -
	PLOT DATE = $DATE$	DATE - 03/28/11	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE
CROSS SECTIONS

SCALE: 10h / 5V | SHEET NO. 1 OF 2 SHEETS | STA. 208+50.00 TO STA. 211+50.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	72
		CONTRACT NO. 63579		
	ILLINOIS FED. AID PROJECT			

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

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

212+25.00

212+00.00

EX ROW

EX ROW

EXC. 15" SQ. FT.
EMB 12 SQ. FT.

24" SS

FILE NAME = $FILEL$

USER NAME = $USER$	DESIGNED - MAP	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MAP	REVISED -	
PLOT DATE = $DATE$	DATE - 03/28/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE
CROSS SECTIONS

SCALE: 10H / 5V | SHEET NO. 2 OF 2 SHEETS | STA. 212+00.00 TO STA. 212+25.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3002	00-00083-00-PV	DUPAGE	73	73
		CONTRACT NO. 63579		
	ILLINOIS	FED. AID PROJECT		