F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	1
		ILLINOIS CONTRACT NO. 62M34		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE VILLAGE OF DOWNERS GROVE

TRAFFIC DATA:

IL ROUTE 56
S.N. 022-0220 2019 ADT = 51,800

DESIGN CLASSIFICATION = PRINCIPAL ARTERIAL

DESIGN SPEED = 50 MPH (ASSUMED)

POSTED SPEED = 45 MPH

INTERSTATE 355
2019 ADT = 123,400

DESIGN CLASSIFICATION = INTERSTATE (I-355) (URBAN)

DESIGN SPEED = 65 MPH (ASSUMED)

POSTED SPEED = 60 MPH

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

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

PROJECT ENGINEER: PRAVEEN KAINI, PE. 847-705-4237
PROJECT MANAGER: J. ALAIN MIDY, PE. 847-221-3056

CONTRACT NO. 62M34

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

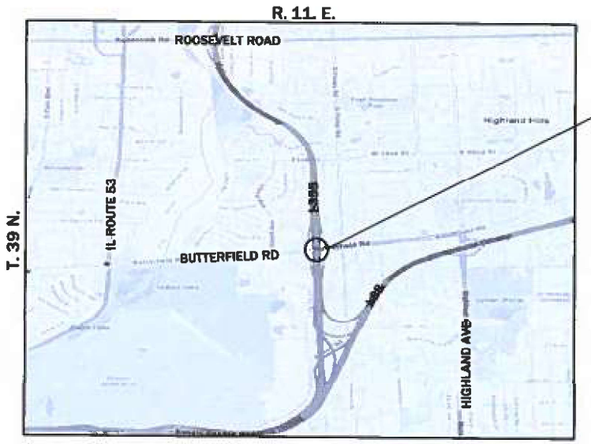
PROPOSED HIGHWAY PLANS

F.A.P ROUTE 365: IL 56 OVER I-355
SECTION 2020-179-BR
PROJECT NO. NHPP-X1NK(522)
BRIDGE DECK OVERLAY AND JOINT REPAIR
DUPAGE COUNTY

C-91-365-20

3rd P.M.

R. 11 E.



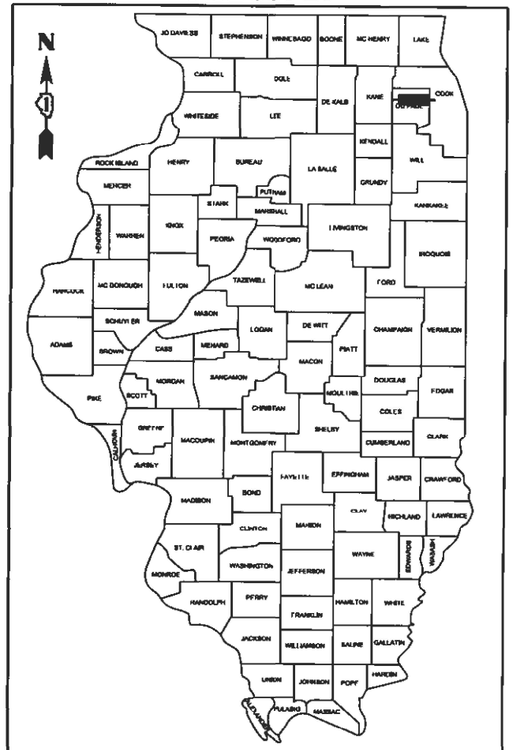
DUPAGE TOWNSHIP

LOCATION MAP

NOT TO SCALE

GROSS LENGTH = 4713 FT. = 0.89 MILES
NET LENGTH = 1555 FT. = 0.29 MILES

D-91-566-20



LOCATION OF SECTION INDICATED THUS: -

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

SHIRAZ TARIQUE
062-064219
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS

7/28/2021
Shiraz Tarique — Date
Illinois Registered Engineer No. 062-064219
Registration Expires Nov. 30, 2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 30 2021
Jose Rios (JJR3)
REGIONAL ENGINEER

October 1 2021
ENGINEER OF DESIGN AND ENVIRONMENT

October 2 2021
Stephen M Travis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEM
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
601001-05	PIPE UNDERDRAINS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877002-04	STEEL MAST ARM ASSEMBLY & POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

DISTRICT STANDARDS

BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TOLLWAY STANDARDS

E1-07	CONSTRUCTION SIGNS
E2-10	LANE CLOSURE DETAILS
E3-09	SHOULDER CLOSURE DETAILS

FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

AGGREGATE SHOULDERS	1.60 TONS/CU YD
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
SHORT TERM PAVEMENT MARKING	10 FT/100 FT
GRANULAR MATERIAL	2.05 TONS/CU YD

MIXTURE TABLE NOTES

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
5. PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART.1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. 8" TEMPORARY PCC PAVEMENT SHALL BE USED.

GENERAL NOTES

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

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES ARE IN THE AREA. 48 HOUR NOTIFICATION IS REQUIRED.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH TEMPORARY MARKINGS, IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR PROPOSED STRIPING AT THE COMPLETION OF THIS CONTRACT. EXACT LOCATIONS OF ALL PROPOSED PAVEMENT MARKINGS SHALL BE DIRECTED BY THE RESIDENT ENGINEER.

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

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND THE VILLAGE OF DOWNERS GROVE.

THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.

THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

PERMANENT PAVEMENT MARKINGS SHALL BE AS SPECIFIED IN THE PLANS AND SHALL BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAILS. (TC-13, DISTRICT ONE TYPICAL PAVEMENT MARKINGS).

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULL LOADED TANDEM AXLE TRUCK.

ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTORS VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

ALL STAGE CHANGES REQUIRING THE STOPPING AND/OR THE PACING OF TRAFFIC SHALL TAKE PLACE DURING THE ALLOWABLE HOURS FOR FULL EXPRESSWAY CLOSURES AND SHALL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT LEAST 3 WORKING DAYS (WEEKENDS AND HOLIDAYS DO NOT COUNT INTO THIS 72 HOURS NOTIFICATION) IN ADVANCE OF ANY PROPOSED STAGE CHANGE.

A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO: LANE AND RAMP CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATION.

THE CONTRACTOR MUST VERIFY THE EXISTING SUBBASE AND PAVEMENT DEPTH IF APPLICABLE.

THE CONTRACTOR SHALL CONTRACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155, ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, AND THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT CARLOSMUNOZ@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.

THE STRIPPED TOPSOIL SHALL BE STOCKPILED, SORTED, AND REUSED FOR THE PROPOSED LANDSCAPING IMPROVEMENTS. THE ACTUAL REMOVAL DEPTH AND QUANTITY OF TOPSOIL REMOVAL SHALL BE VERIFIED IN THE FIELD.

ANY DAMAGE TO EXISTING TRAFFIC SIGNAL EQUIPMENT WILL HAVE TO BE RESTORED TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE DEPARTMENT.

CONTRACTOR MUST NOTIFY RICK WILLMAN (847-228-3584, RICHARD.WILLMAN@PACEBUS.COM) AT LEAST 2 WEEKS PRIOR TO BEGINNING WORK.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.

ALL DRAINAGE STRUCTURES AND TRAFFIC SIGNAL STRUCTURE LOCATIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, WALTER CZARNY, VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171 TO SCHEDULE LAYOUT OF AREAS TO BE TREATED WITH HERBICIDE AT LEAST 7 DAYS PRIOR TO THE APPLICATION.

THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL SECTIONS OF THE ILLINOIS CUSTOM SPRAY LAW, INCLUDING LICENSING. CONTRACTOR PERSONNEL APPLYING HERBICIDES SHALL HAVE A VALID PESTICIDE APPLICATOR LICENSE ISSUED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE. THE LICENSED PESTICIDE APPLICATOR SHALL SUBMIT THEIR CURRENT LICENSE TO THE ENGINEER. THE LICENSED PESTICIDE APPLICATOR SHALL BE QUALIFIED AT A MINIMUM IN RIGHT-OF-WAY AQUATICS. THE LICENSED APPLICATOR SHALL WORK ON-SITE.

PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT DUE TO PROXIMITY TO EXISTING WETLANDS. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).

THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT THEIR EXPENSE.

THE CONTRACTOR WILL CONTACT FABIOLA QUIROZ OF THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4596, AT LEAST 7 DAYS PRIOR TO PLANTING FOR APPROVAL OF LAYOUT OF TREES.

COMMITMENTS

NONE.

HOT- MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
BUTT JOINT		
POLY, HMA SURFACE COURSE, SMA 9.5, MIX "F", N80	3.5% @ 80 GYR.	QC/QA
HOT-MIX ASPHALT SHOULDER, 15"		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 2"	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70. 13"	4% @ 70 GYR.	QC/QA
ILLINOIS ROUTE 56 PAVEMENT WIDENING		
POLY, HMA SURFACE COURSE, SMA 9.5, MIX "F", N80 2"	3.5% @ 80 GYR.	QC/QA
POLY, HMA BINDER COURSE, IL-4.75, N50. 1"	3.5% @ 50 GYR.	QC/QA
ILLINOIS ROUTE 56 RESURFACING & APPROACH PAVEMENT		
POLY, HMA SURFACE COURSE, SMA 9.5, MIX "F", N80 1 3/4"	3.5% @ 80 GYR.	QC/QA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "D", N70 2"	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8"	4% @ 70 GYR.	QC/QA
TEMPORARY PAVEMENT (VARIABLE DEPTH)		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "D", N70	4% @ 70 GYR.	QC/QA
CLASS D PATCH		
HOT-MIX ASPHALT BINDER COURSE IL-19.0	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
	20100110	TREE REMOVAL (6 TO 15 UNITS IN DIAMETER)	UNIT	40	40
	20200100	EARTH EXCAVATION	CU YD	2,120	2,120
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	298	298
	21101665	TOPSOIL FURNISH AND PLACE, 18"	SQ YD	1,642	1,642
*	25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
*	25000750	MOWING	ACRE	4.00	4.00
*	25100125	MULCH, METHOD 3	ACRE	0.50	0.50
*	25200110	SODDING, SALT TOLERANT	SQ YD	1,642	1,642
	25200200	SUPPLEMENTAL WATERING	UNIT	10.0	10.0
	28000400	PERIMETER EROSION BARRIER	FOOT	1,994	1,994
*	28000510	INLET FILTERS	EACH	6	6
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	100	100

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,485	2,485
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	233	233
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	1,795	1,795
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,874	1,874
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,027	1,027
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	201	201
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA 9.5, MIX "F", N80	TON	467	467
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,557	1,557
44003100	MEDIAN REMOVAL	SQ FT	25,090	25,090
44004250	PAVED SHOULDER REMOVAL	SQ YD	73	73
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	48	48
48203057	HOT-MIX ASPHALT SHOULDERS, 15"	SQ YD	73	73
50157300	PROTECTIVE SHIELD	SQ YD	3,270	3,270
50300300	PROTECTIVE COAT	SQ YD	4,284	4,284

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
	52000025	PREFORMED JOINT SEAL 2"	FOOT	273	273
	58700300	CONCRETE SEALER	SQ FT	4,946	4,946
	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	659	659
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	4	4
	60260100	INLETS TO BE ADJUSTED	EACH	6	6
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,502.0	1,502.0
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	350	350
*	~~66900200~~	~~NON SPECIAL WASTE DISPOSAL~~	~~CU YD~~		
*	~~66900530~~	~~SOIL DISPOSAL ANALYSIS~~	~~EACH~~		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
*	66901006	REGULATED SUBSTANCES MONITORING	DAYS	4	4
	67000400	ENGINEERS' FIELD OFFICE, TYPE A	CAL MO	12	12
	67100100	MOBILIZATION	L SUM	1	1

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,343	9,343
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	19,289	19,289
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	1,904	1,904
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	22,174	22,174
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	16,346	16,346
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	2,086	2,086
70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	920	920
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	1,101	1,101
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,300	1,300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,425	1,425
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
*	72000100	SIGN PANEL - TYPE 1	SQ FT	45	45
*	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	26	26
*	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	2	2
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	619	619
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,357	6,357
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3,288	3,288
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	220	220
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	348	348
*	78004355	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 5"	FOOT	306	306
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	FOOT	510	510
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,612	1,612
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1,900	1,900
*	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	593	593

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	40	40
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	46	46
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	45	45
*	78100300	REPLACEMENT REFLECTOR	EACH	219	219
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	111	111
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	45	45
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4,549	4,549
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA	FOOT	97	97
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,513	3,513
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	632	632
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	113	113
*	87700408	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT	EACH	1	1
*	87700410	STEEL MAST ARM ASSEMBLY AND POLE, 65 FT.	EACH	1	1

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46	46
	87900200	DRILL EXISTING HANDHOLE	EACH	2	2
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8	8
*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	2
*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10	10
*	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSEM, DETECTOR UNIT	EACH	2	2
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,256	3,256
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	2
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2
*	A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	9	9
*	K0029614	WEED CONTROL, AQUATIC	GALLON	0.5	0.5
*	K0029624	WEED CONTROL, TEASEL	GALLON	0.5	0.5

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
	X0320015	MAINTENANCE OF TRAFFIC (ILLINOIS TOLLWAY)	L SUM	1	1
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	700	700
*	X0327032	TEMPORARY VIDEO DETECTION	EACH	2	2
	X2503110	MOWING (SPECIAL)	ACRE	0.50	0.50
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	4,067	4,067
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	312	312
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	219	219
	Z0018911	DRILL AND GROUT #6 TIE BARS	EACH	660	660
	Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	17	17
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	17	17
	Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	4,272	4,272
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	4,272	4,272
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED/20% STATE SN 022-0220 0059 URBAN
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1	1
	Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	20	20
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4,004	4,004
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	607	607
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2	2
	Z0041895	POLYMER CONCRETE	CU FT	9.3	9.3
	Z0062456	TEMPORARY PAVEMENT	SQ YD	233	233
	Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	28	28
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2
Ø	Z0076600	TRAINEES	HOURS	500	500
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500

* SPECIALTY ITEM

Ø0042

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PLOT DATE = 8/12/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 9 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	11
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

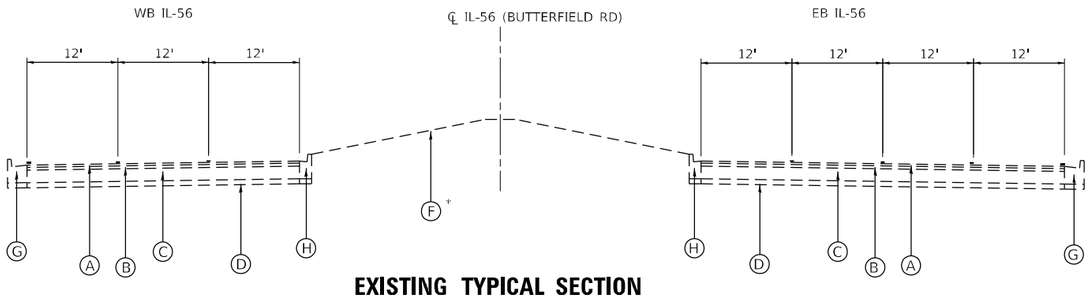
REV-SEP

LEGEND

- (A) EXISTING HMA SURFACE COURSE, 1 1/2"
- (B) EXISTING HMA BINDER COURSE, 1 1/2"
- (C) EXISTING PCC PAVEMENT, 8"
- (D) EXISTING SUBBASE GRANULAR MATERIAL, 4"
- (E) EXISTING AGGREGATE SUBGRADE
- (F) EXISTING SODDING
- (G) EXISTING B6.24 CURB AND GUTTER
- (H) EXISTING B6.12 CURB AND GUTTER
- (I) EXISTING CONC MEDIAN
- (J) PROPOSED HMA BUTT JOINT
- (K) PROPOSED AGGREGATE SUBGRADE IMP, 12"
- (L) PROPOSED B6.12 CURB AND GUTTER
- (M) PROPOSED TOPSOIL FURNISH AND PLACE, 18"
- (N) PROPOSED POLY, HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80 2"
- (O) PROPOSED PCC BASE COURSE, 8"
- (P) PROPOSED POLY, HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80 1 3/4"
- (Q) DRILL AND GROUT #6 TIE BARS
- (R) PROPOSED POLY, HMA BINDER COURSE, IL 4.75, N50 1"
- (S) PROPOSED CONCRETE MEDIAN SURFACE, 4"
- (T) PIPE UNDERDRAINS TYPE 2, 4"

NOTE:

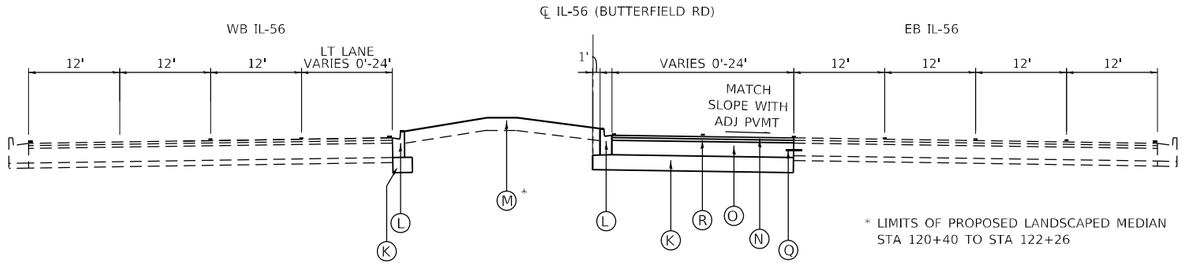
FOR PAVEMENT MARKINGS, SEE ROADWAY PLAN SHEETS 41 - 44



EXISTING TYPICAL SECTION

IL-56 OVER I-355
LOOKING WEST
STA 120+40 TO 122+82

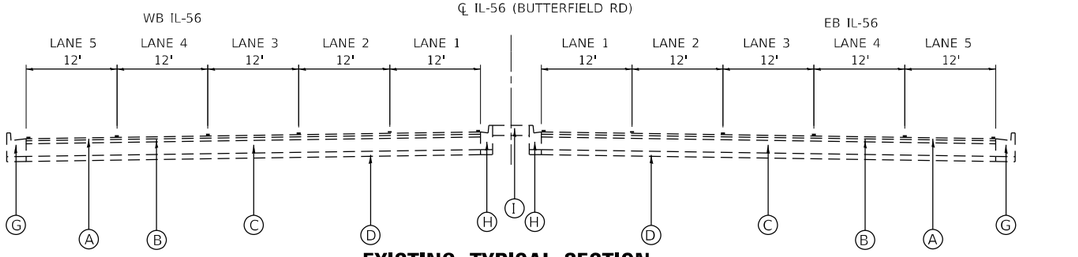
* LIMITS OF EXISTING LANDSCAPED MEDIAN
STA 120+40 TO STA 122+26



* LIMITS OF PROPOSED LANDSCAPED MEDIAN
STA 120+40 TO STA 122+26

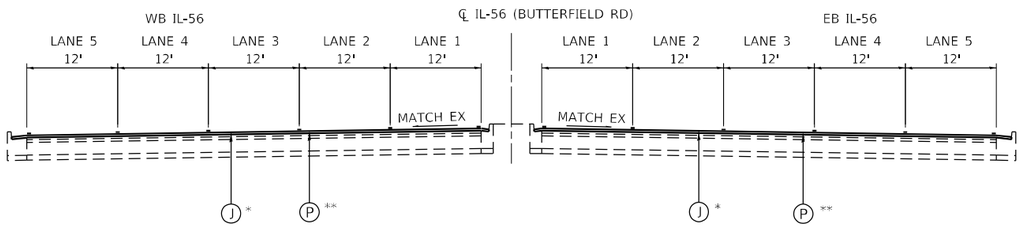
PROPOSED TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 117+96 TO 122+82



EXISTING TYPICAL SECTION

IL-56 OVER I-355
STA 123+28 TO 123+63
STA 128+30 TO 128+74

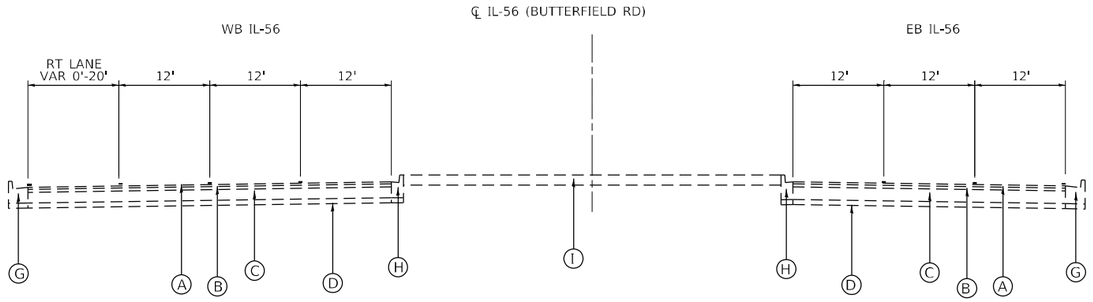


PROPOSED TYPICAL SECTION

** STA 123+63 TO 124+18
STA 127+76 TO 128+31

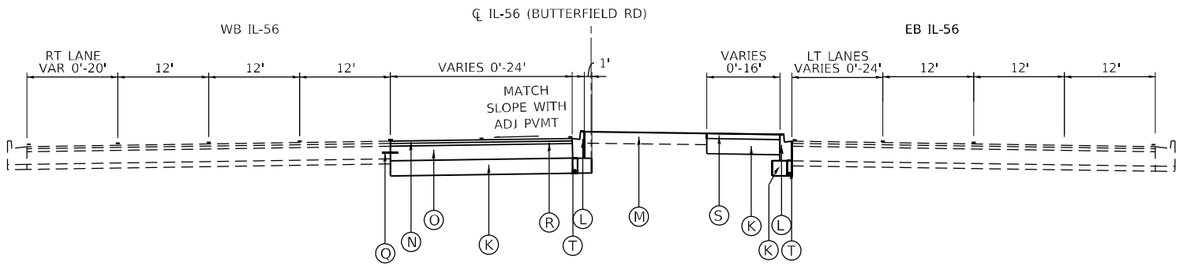
IL-56 OVER I-355
LOOKING EAST
STA 123+28 TO 124+18
STA 127+76 TO 128+66

* STA 123+28 TO 123+63
STA 128+31 TO 128+66



EXISTING TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 128+74 TO STA 131+57



PROPOSED TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 128+74 TO STA 133+55

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		DRAWN - NH	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	12
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

IDOT MAINTENANCE OR TRAFFIC GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL - WATER BLASTING.
3. EXISTING RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS THAT CONFLICT WITH THE REVISED TRAFFIC PATTERNS, SHALL BE REMOVED FROM THE EXISTING CASTINGS LOCATED IN THE PAVEMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
4. THE REMOVAL OF ALL PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE SQUARE FOOT FOR SHORT TERM PAVEMENT MARKING REMOVAL.
5. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR ANY SHORT TERM PAVEMENT MARKINGS ON FINAL SURFACES AND ALL STAGING.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
7. FOR STABILIZATION, ANY REQUIRED TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
8. EXISTING SIGNS WITHIN THE LIMITS OF TRAFFIC CONTROL WHICH ARE OBSTRUCTED BY OR OTHERWISE INTERFERED WITH BY CONSTRUCTION OPERATIONS OF DESIGNATED TRAFFIC CONTROL, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE AS SPECIFIED IN ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
9. SEE STRUCTURAL PLANS FOR BRIDGE DECK OVERLAY AND JOINT REPAIR INFORMATION.
10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.
11. CONTRACTOR SHALL REFER TO ILLINOIS TOLLWAY STANDARD DRAWINGS, E1-07, E2-10, E3-09 AS WELL AS POST STAGE STAGING PLANS FOR MAINTENANCE OF TRAFFIC REQUIRED ALONG I-355. LANE CLOSURE HOURS ALONG I-355 SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.
12. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE ARTERIALS TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO: LANE AND RAMP CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATION.
13. ALL DRUMS, VERTICAL PANELS, AND BARRICADES ADJACENT TO THE EDGE OF THE TRAVELED WAY SHALL BE EQUIPPED WITH MONO- DIRECTIONAL STEADY BURNING LIGHTS.
14. ALL DRUMS SHALL BE PALCED AT 50' CENTERS ON TANGENTS, 20' CENTERS ON TAPERS AND 10' CENTERS ON RADII AND CURVES.

SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE A

1. INSTALL PROPOSED TRAFFIC SIGNALS AS SHOWN IN TRAFFIC SIGNAL PLANS.
2. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO SHIFT EB & WB IL-56 TRAFFIC AND I-355 ENTRANCE RAMP TRAFFIC AS NEEDED IN ORDER TO CONSTRUCT HMA SHOULDERS ALONG I-355 ENTRANCE RAMPS AT LOCATIONS SHOWN ON THE ROADWAY PLANS.

PRE-STAGE B

1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO CLOSE LANE 2 AND LANE 3 ALONG EB & WB IL-56 AS SHOWN IN THE PRE-STAGE B STAGING PLANS.
2. REMOVE EXISTING MEDIAN AND CURB AND GUTTER AND CONSTRUCT TEMPORARY PAVEMENT & PROPOSED CURB AND GUTTER, ALONG PROPOSED PAVEMENT WIDENING ALONG EB & WB IL-56 AS SHOWN IN THE PRE-STAGE B STAGING AND ROADWAY PLANS.
3. ADJUST EXISTING DRAINAGE STRUCTURES AS SHOWN IN THE ROADWAY PLANS.

STAGE 1

1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO SHIFT EB & WB IL-56 TRAFFIC AND CLOSE LANES 1 AND 2 IN BOTH DIRECTIONS WITHIN THE LIMITS OF THE STRUCTURE AS SHOWN IN THE STAGE 1 STAGING PLANS.
2. PERFORM BRIDGE DECK REPAIRS AND CONSTRUCT BRIDGE DECK OVERLAY WITHIN THE LIMITS OF LANES 1 & 2 AS SHOWN IN THE STAGE 1 STAGING AND STRUCTURAL PLANS.

STAGE 2

1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO SHIFT EB & WB IL-56 TRAFFIC AND CLOSE LANE 1 AND LANE 3 IN BOTH DIRECTIONS WITHIN THE LIMITS OF THE STRUCTURE AS SHOWN IN THE STAGE 2 STAGING PLANS.
2. PERFORM BRIDGE DECK REPAIRS AND CONSTRUCT BRIDGE DECK OVERLAY WITHIN THE LIMITS OF LANE 3 AS SHOWN IN THE STAGE 2 STAGING AND STRUCTURAL PLANS.
3. CONSTRUCT TEMPORARY PAVEMENT (VARIABLE DEPTH) WITHIN THE LIMITS OF LANES 1 & 2 IN BOTH DIRECTIONS AS SHOWN IN THE STAGE 2 STAGING AND STRUCTURAL PLANS.

STAGE 3

1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO SHIFT EB & WB IL-56 TRAFFIC AND CLOSE LANES 4 & 5 IN BOTH DIRECTIONS WITHIN THE LIMITS OF THE STRUCTURE AS SHOWN IN THE STAGE 3 STAGING PLANS.
2. PERFORM BRIDGE DECK REPAIRS AND CONSTRUCT BRIDGE DECK OVERLAY WITHIN THE LIMITS OF LANES 4 & 5 AS SHOWN IN THE STAGE 3 STAGING AND STRUCTURAL PLANS.
3. CONSTRUCT TEMPORARY PAVEMENT (VARIABLE DEPTH) WITHIN THE LIMITS OF LANE 3 IN BOTH DIRECTIONS AS SHOWN IN THE STAGE 3 STAGING AND STRUCTURAL PLANS.

STAGE 4

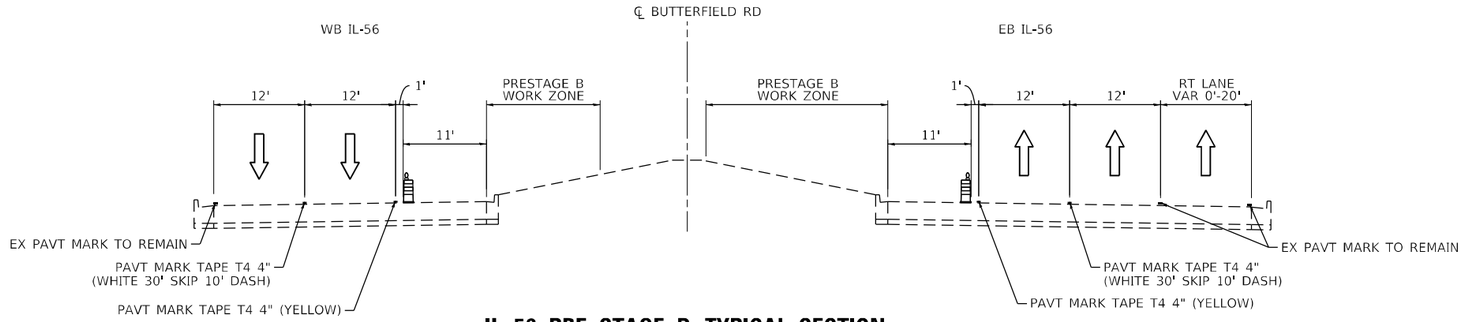
1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO CLOSE LANE 3 ALONG EB & WB IL-56 AS SHOWN IN THE STAGE 4 STAGING PLANS.
2. REMOVE TEMPORARY PAVEMENT AND CURB AND GUTTER CONSTRUCTED IN PRESTAGE B, AND CONSTRUCT PROPOSED MEDIAN & PROPOSED CURB AND GUTTER ALONG EB & WB IL-56 AS SHOWN IN THE STAGE 4 STAGING AND ROADWAY PLANS.

POST STAGE A & B

1. UTILIZING WEEKEND LANE CLOSURES, DURING THE ALLOWABLE RAMP AND NIGHTLY LANE CLOSURE HOURS LISTED IN THE SPECIAL PROVISIONS, CONSTRUCT PROPOSED HMA RESURFACING AND BUTT JOINTS ALONG IL-56 AT LOCATIONS SHOWN IN THE ROADWAY PLANS.
2. UTILIZING WEEKEND LANE CLOSURES, DURING THE ALLOWABLE RAMP AND NIGHTLY LANE CLOSURE HOURS LISTED IN THE SPECIAL PROVISIONS, AND AS SHOW IN THE POST-STAGE STAGING PLANS, INSTALL PROTECTIVE SHIELD UNDERNEATH S.N. 022-0220 AT LOCATIONS SHOWN IN THE PLANS.
3. ADJUST EXISTING DRAINAGE STRUCTURES AS SHOWN IN THE ROADWAY PLANS.
4. PLACE PERMANENT PAVEMENT MARKINGS ALONG EB & WB IL-56 AND I-355 ENTRANCE RAMPS AS SHOWN IN THE PLANS.

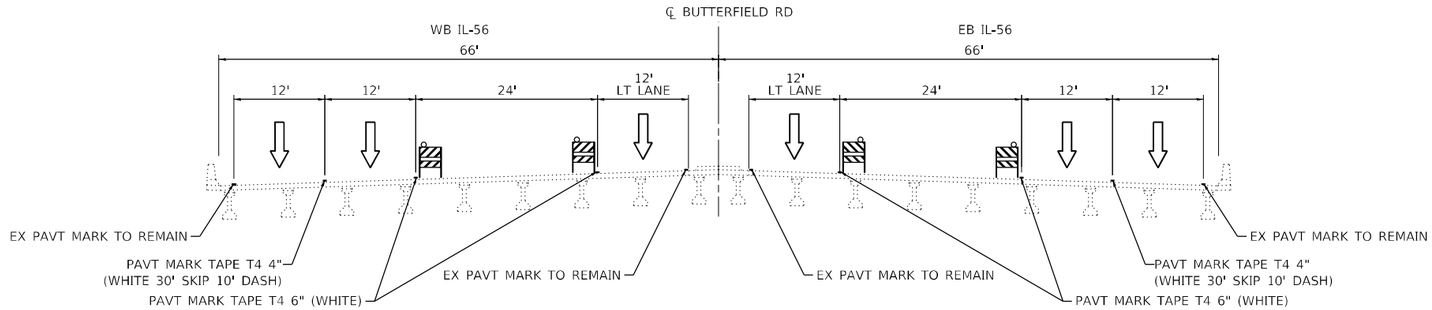
ILLINOIS TOLLWAY MAINTENANCE OR TRAFFIC GENERAL NOTES

1. THE FOLLOWING APPLY TO CONSTRUCTION SIGNS:
   A. UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD, THE CONTRACTOR SHALL FURNISH ALL STANDARD SIGNS.
   B. ALL SIGNS SHALL BE BOLTED TO SIGN SUPPORTS, UNLESS OTHERWISE NOTED.
   C. ALL SIGNS IN PLACE LONGER THAN 4 DAYS MUST BE POST-MOUNTED IN THE GROUND WHERE POSSIBLE.
   D. FOR NUMBER AND LOCATION OF SIGNS SEE MAINTENANCE OF TRAFFIC POST STAGE SHEETS AND STANDARD DETAILS.
2. ALL DRUMS AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY-BURN MONO-DIRECTIONAL LIGHTS.
3. CONSTRUCTION SIGN PLACEMENT MAY BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
4. ONE TYPE "A" WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE FIRST THREE PAIRS OF ADVANCE WARNING SIGNS.
5. CONSTRUCTION SIGNS SHALL BE POST MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHENEVER POSSIBLE. UNDER NO CONDITION SHALL SIGNS BE LOCATED TO PROVIDE LESS THAT 2' CLEARANCE BETWEEN THE EDGE OF SIGN AND ADJACENT TRAVEL LANE.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 2 WEEKS PRIOR TO EACH STAGE CHANGE. THE ENGINEER WILL CONTACT THE TOLLWAY TIMS TO DETERMINE WHETHER OR NOT MESSAGES WILL BE POSTED ON EXISTING TOLLWAY DYNAMIC MESSAGE SIGNS.



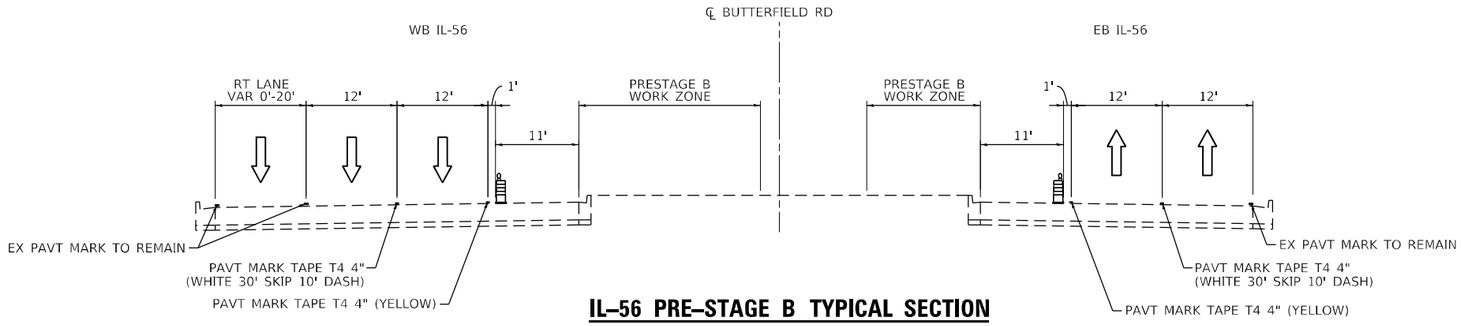
IL–56 PRE–STAGE B TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 117+79 TO STA 122+89



S.N. 022–0220 PRE–STAGE B TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST

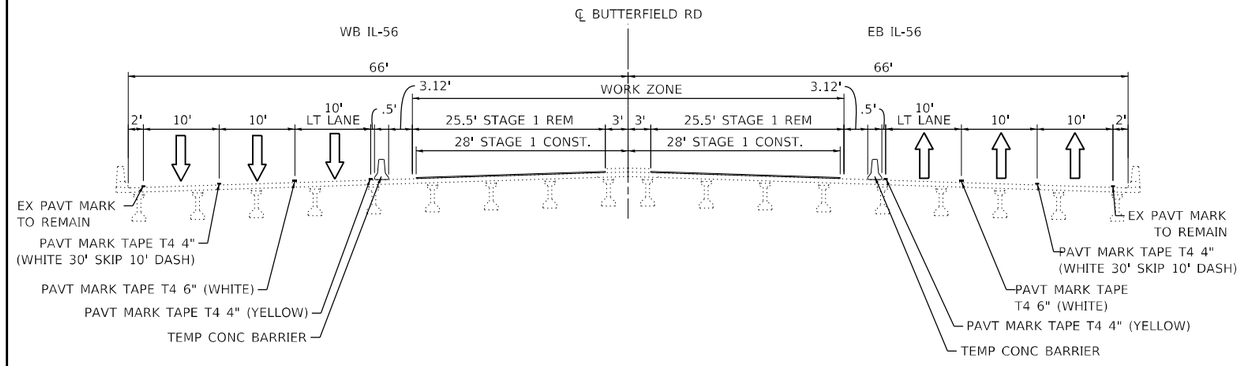


IL–56 PRE–STAGE B TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 128+70 TO STA 133+96

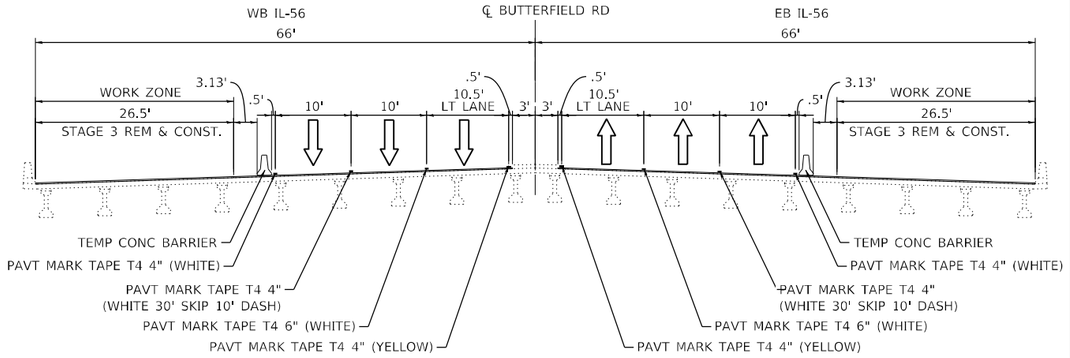
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
		DRAWN - NH	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		SCALE: N.T.S. SHEET 2 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	14
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	



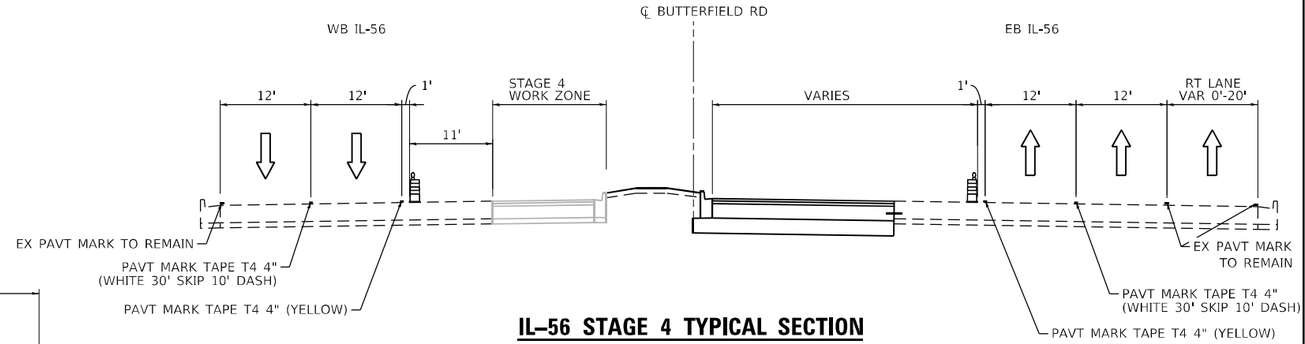
S.N. 022–0220 STAGE 1 TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST



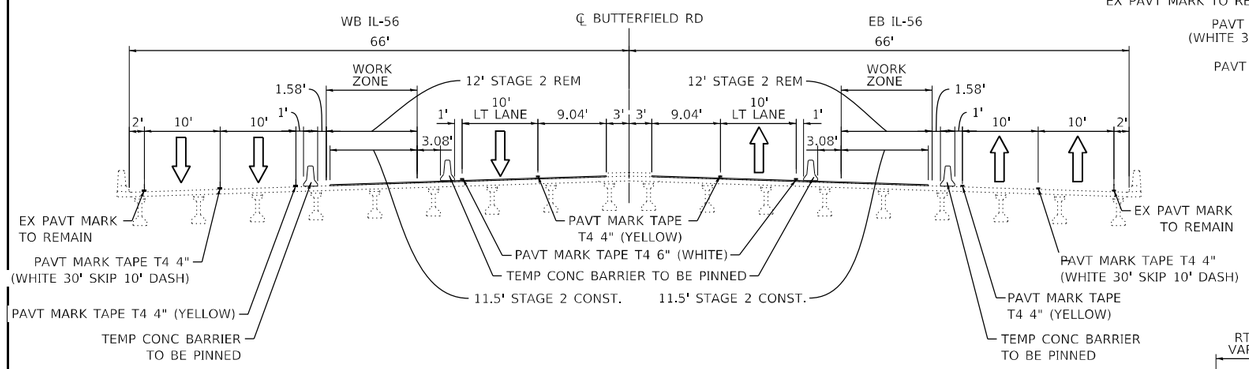
S.N. 022–0220 STAGE 3 TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST



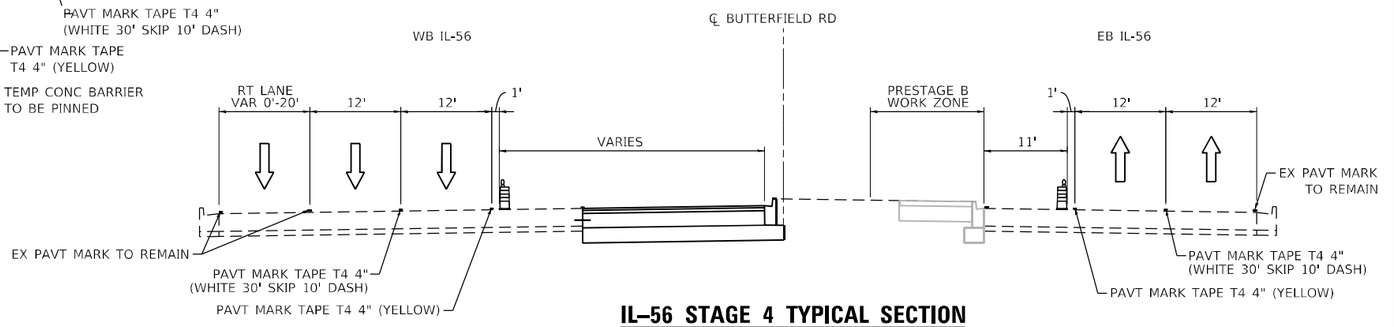
IL–56 STAGE 4 TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 117+79 TO STA 122+89



S.N. 022–0220 STAGE 2 TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST



IL–56 STAGE 4 TYPICAL SECTION

IL-56 OVER I-355
LOOKING EAST
STA 128+70 TO STA 133+96

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USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 3 OF 28 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	15
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

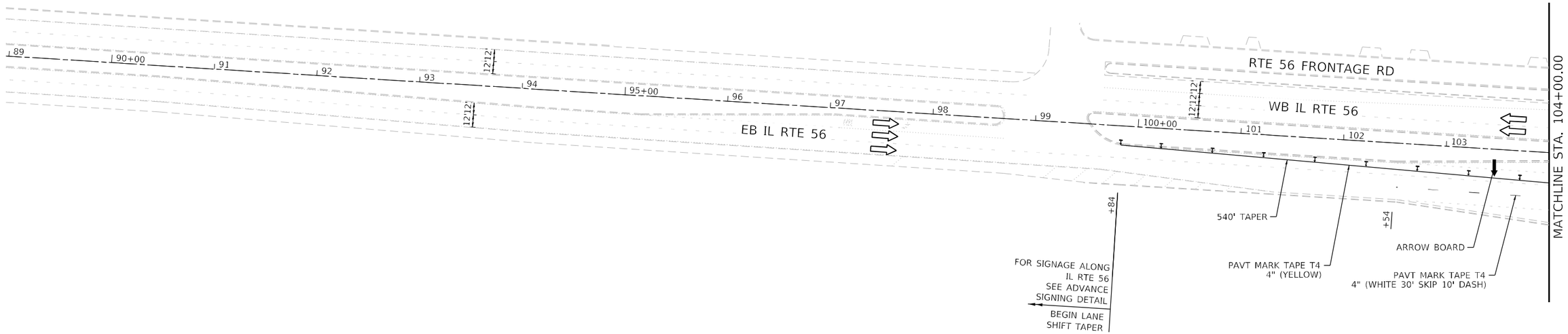
LEGEND

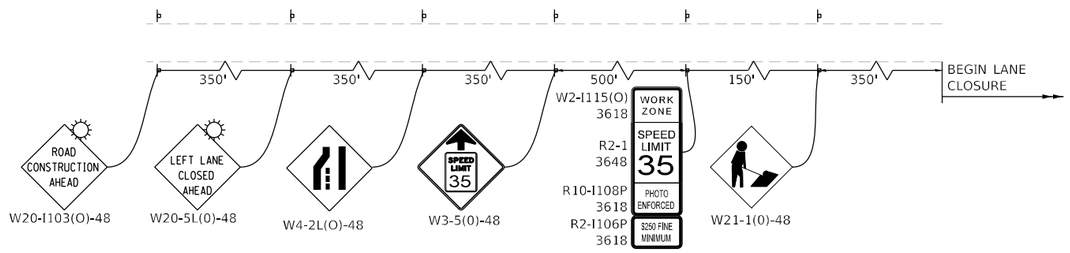
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN THIS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET

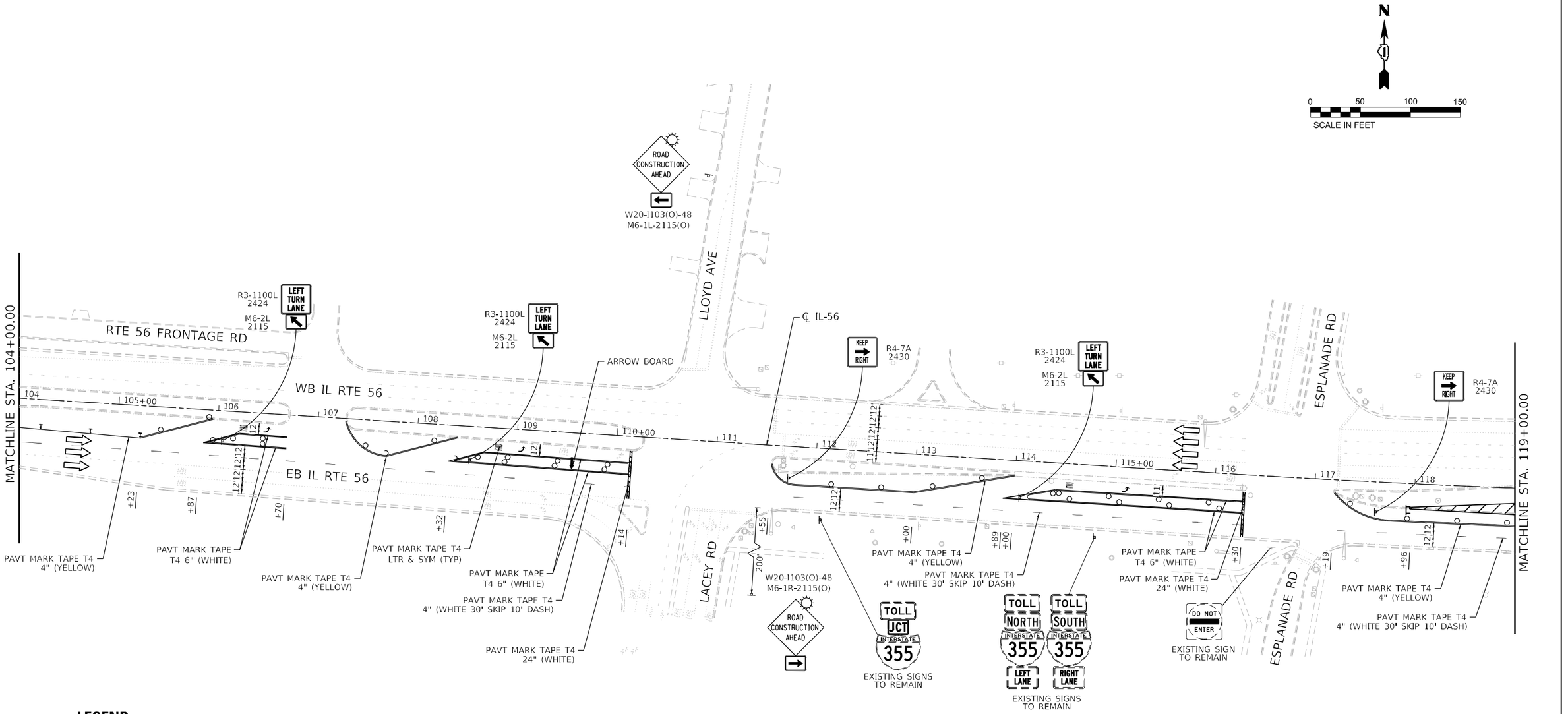




ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - PRESTAGE B
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' | SHEET 4 OF 28 SHEETS | STA. 99+84.00 TO STA. 104+00.00
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	16
		CONTRACT NO. 62M34		
		ILLINOIS | FED. AID PROJECT		



LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN THIS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

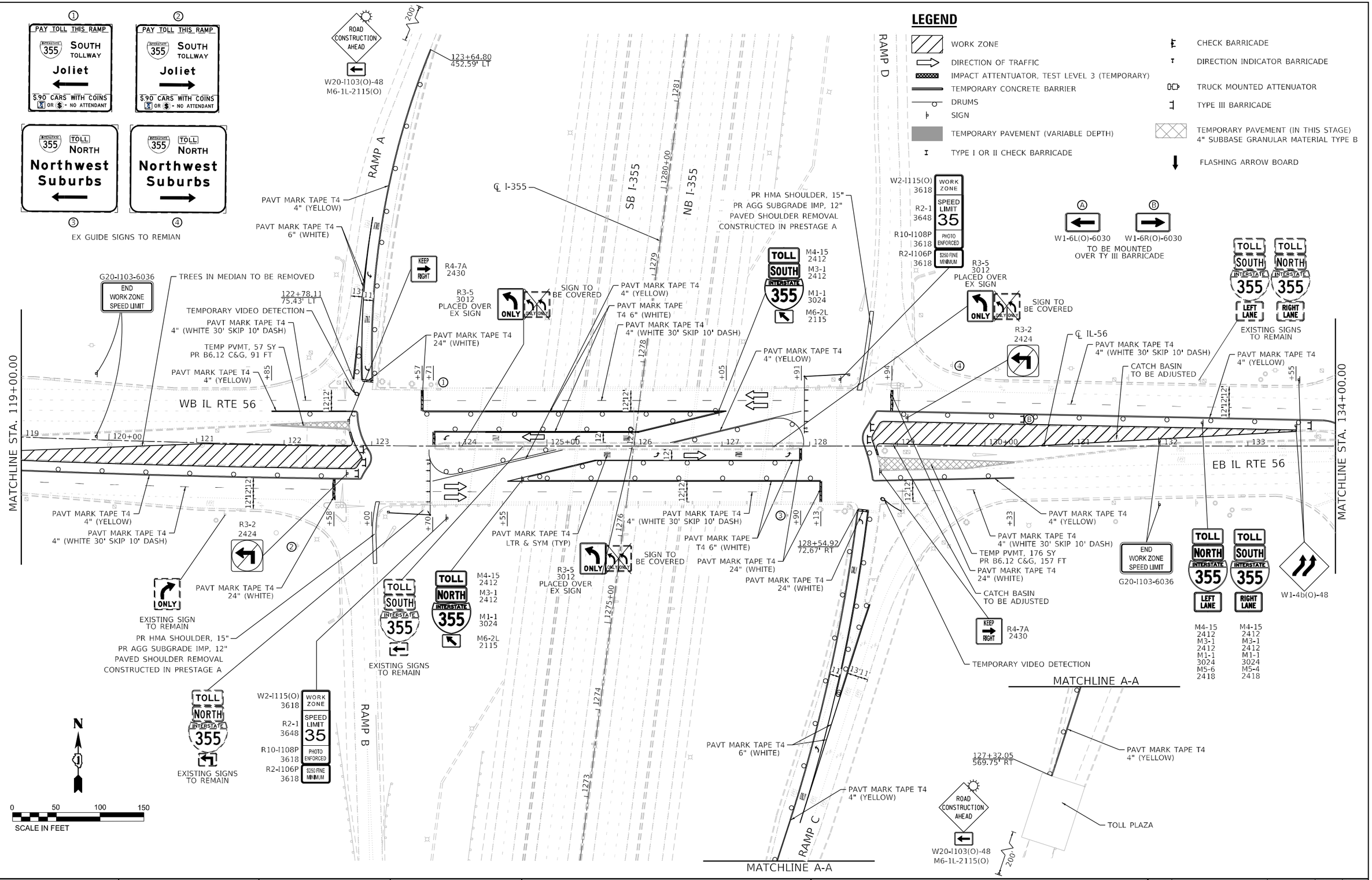
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - PRESTAGE B

SCALE: 1"=50' | SHEET 5 OF 28 SHEETS | STA. 104+00.00 TO STA. 119+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	17
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



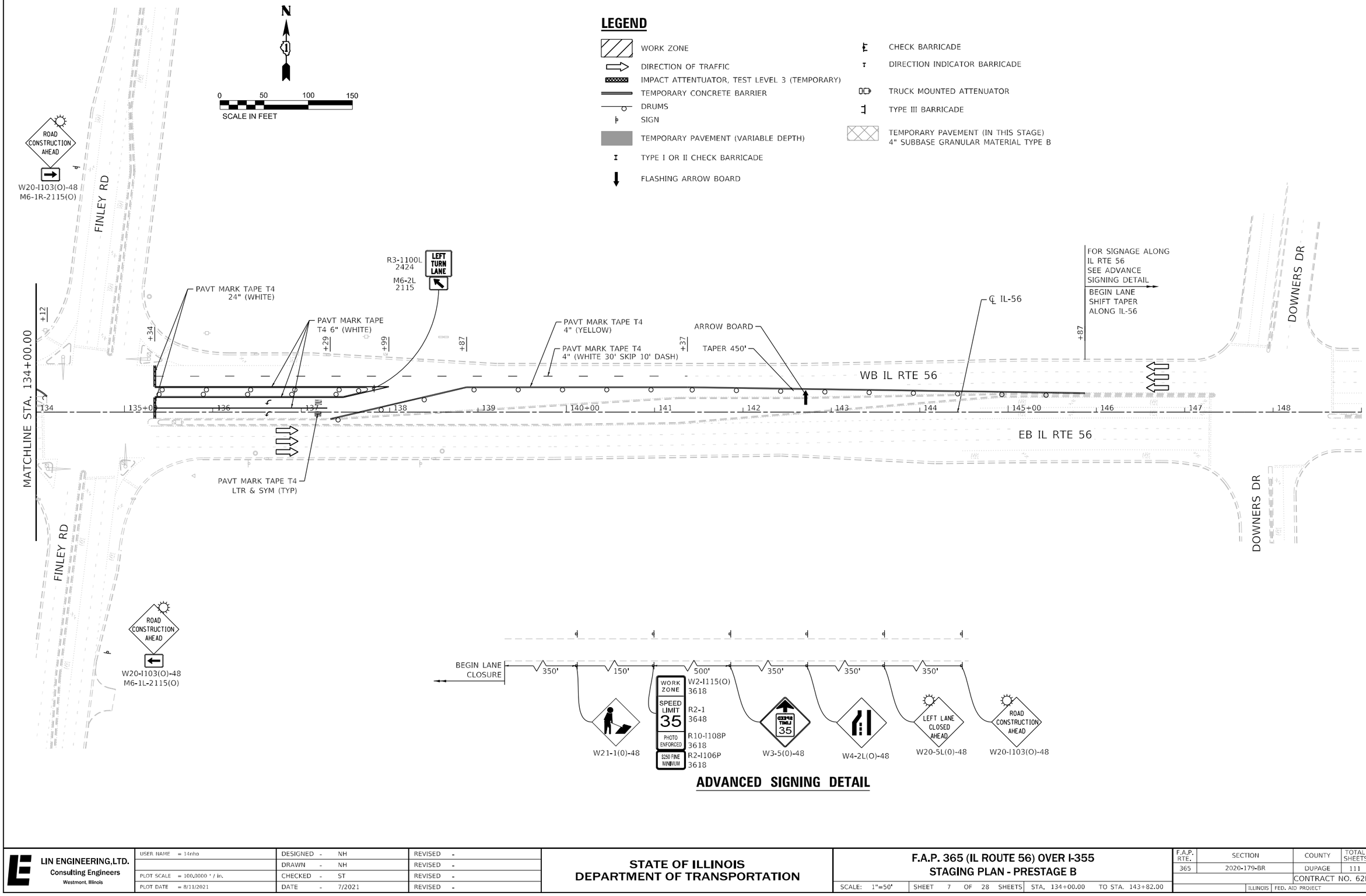
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - PRESTAGE B

SCALE: 1"=50' | SHEET 6 OF 28 SHEETS | STA. 119+00.00 TO STA. 134+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	18
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			



ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - NH	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - PRESTAGE B

SCALE: 1"=50' | SHEET 7 OF 28 SHEETS | STA. 134+00.00 TO STA. 143+82.00

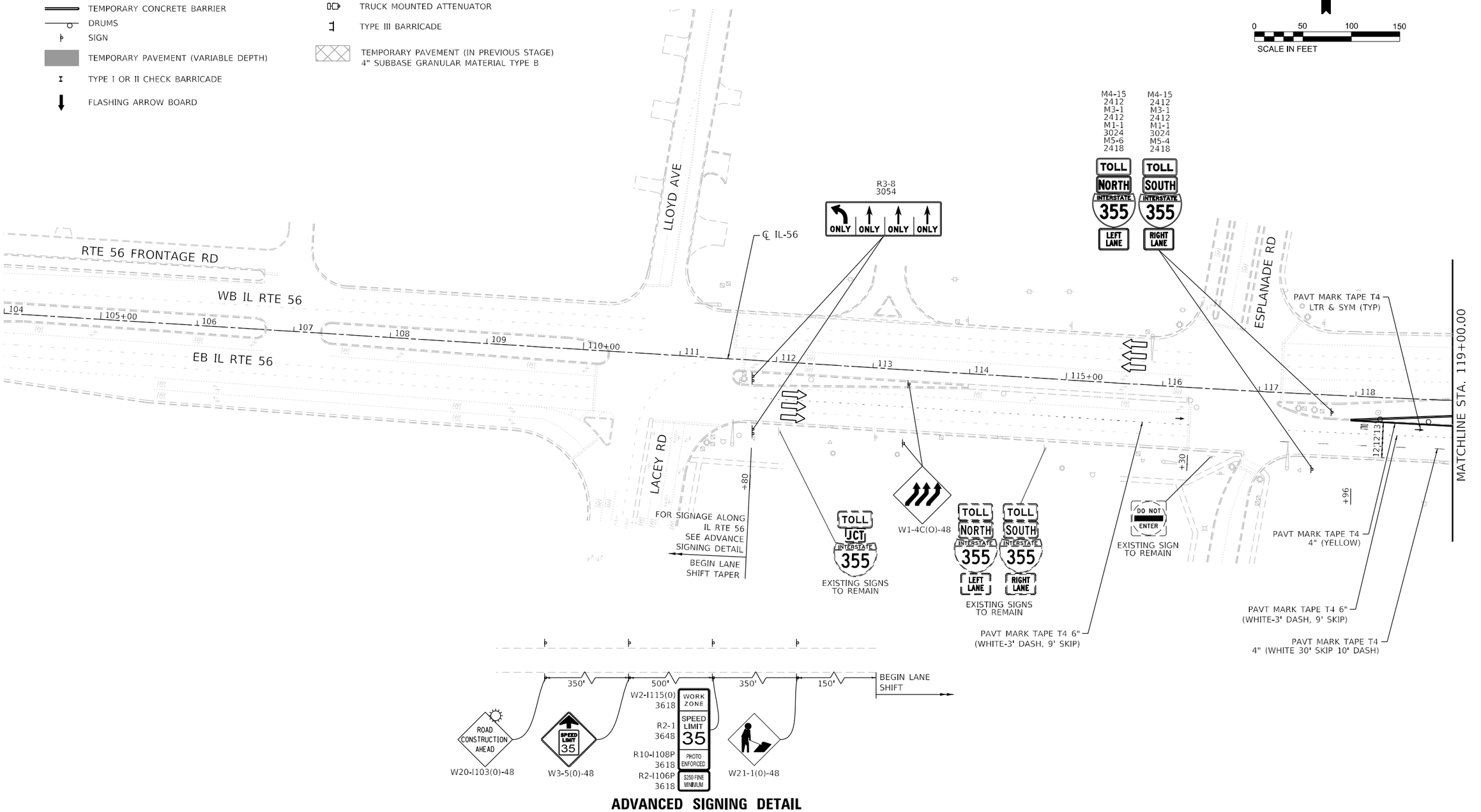
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	19
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150
SCALE IN FEET



ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - STAGE 1
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' SHEET 8 OF 28 SHEETS STA. 117+24.00 TO STA. 119+00.00
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	20
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

ROAD CONSTRUCTION AHEAD
200'
W20-I103(O)-48
M6-1L-2115(O)

123+64.80
452.59' LT

TAPER 200'

RAMP A

PAVT MARK TAPE T4
4" (YELLOW)

TEMPORARY VIDEO DETECTION

PAVT MARK TAPE T4
24" (WHITE)

M4-15
2412
M3-1
2412
M1-1
3024
M6-1L
2115

13'11"

TOLL SOUTH INTERSTATE 355

122+78.11
75.43' LT

G20-I103-6036
END WORK ZONE SPEED LIMIT

R4-7-2430

R3-2
2424

WB IL RTE 56

MATCHLINE STA. 119+00.00

119 | 120+00 | 121 | 122 | 123 | 124 | 125+00 | 126 | 127 | 128

TAPER (35:1)
PAVT MARK TAPE T4
4" (YELLOW)
PAVT MARK TAPE T4 6"
(WHITE-3' DASH, 9' SKIP)
PAVT MARK TAPE T4
4" (WHITE 30' SKIP 10' DASH)
PAVT MARK TAPE
T4 6" (WHITE)

EXISTING SIGN
TO REMAIN

PAVT MARK TAPE T4
24" (WHITE)

PR HMA SHOULDER, 15"
PR AGG SUBGRADE IMP, 12"
PAVED SHOULDER REMOVAL
CONSTRUCTED IN PRESTAGE A

TOLL NORTH INTERSTATE 355

EXISTING SIGNS
TO REMAIN

RAMP B

TOLL SOUTH INTERSTATE 355

EXISTING SIGNS
TO REMAIN

W2-I115(O) 3618 — WORK ZONE / SPEED LIMIT 35 / PHOTO ENFORCED / $250 FINE MINIMUM
R2-1 3648
R10-I108P 3618
R2-I106P 3618

W1-6L(O)-6030
W1-6R(O)-6030
TO BE MOUNTED
OVER TY III BARRICADE

M4-15
2412
M3-1
2412
M1-1
3024
M6-1L
2115

R4-7-2430

TOLL SOUTH INTERSTATE 355

PAVT MARK TAPE T4
4" (YELLOW)

PAVT MARK TAPE
T4 6" (WHITE)

PAVT MARK TAPE T4
4" (WHITE 30' SKIP 10' DASH)

337.50 LF TEMP
CONCRETE BARRIER

SB I-355

NB I-355

1281 | 1280+00 | 1279 | 1278 | 1277 | 1276 | 1275+00 | 1274 | 1273

PAVT MARK TAPE
T4 6" (WHITE)

PAVT MARK TAPE T4
24" (WHITE)

362.50 LF TEMP
CONCRETE BARRIER

PAVT MARK TAPE T4
4" (YELLOW)

PAVT MARK TAPE T4
4" (WHITE 30' SKIP 10' DASH)

RAMP C

MATCHLINE A-A

RAMP D

PR HMA SHOULDER, 15"
PR AGG SUBGRADE IMP, 12"
PAVED SHOULDER REMOVAL
CONSTRUCTED IN PRESTAGE A

W2-I115(O) 3618 — WORK ZONE / SPEED LIMIT 35 / PHOTO ENFORCED / $250 FINE MINIMUM
R2-1 3648
R10-I108P 3618
R2-I106P 3618

R4-7-2430

M4-15
2412
M3-1
2412
M1-1
3024
M6-1L
2115

TOLL NORTH INTERSTATE 355

PAVT MARK TAPE T4
24" (WHITE)

R3-2
2424

PAVT MARK TAPE
T4 6" (WHITE)

PAVT MARK TAPE T4
LTR & SYM (TYP)

FOR SIGNAGE
ALONG IL RTE 56
SEE ADVANCE
SIGNING DETAIL

BEGIN LANE
SHIFT TAPER
ALONG IL-56

℄ IL-56

TAPER (35:1)

PAVT MARK
TAPE T4
4" (YELLOW)

① PAY TOLL THIS RAMP — INTERSTATE 355 SOUTH TOLLWAY — Joliet — $.90 CARS WITH COINS (X) OR ($) - NO ATTENDANT

② PAY TOLL THIS RAMP — INTERSTATE 355 SOUTH TOLLWAY — Joliet — $.90 CARS WITH COINS (X) OR ($) - NO ATTENDANT

③ INTERSTATE 355 TOLL NORTH — Northwest Suburbs

④ INTERSTATE 355 TOLL NORTH — Northwest Suburbs

EX GUIDE SIGNS TO REMIAN

PAVT MARK TAPE T4 6"
(WHITE-3' DASH, 9' SKIP)

PAVT MARK TAPE T4
4" (WHITE SKIP DASH)

EXISTING SIGNS
TO REMAIN

TOLL SOUTH INTERSTATE 355 LEFT LANE
TOLL NORTH INTERSTATE 355 RIGHT LANE

W1-4C(O)-48

+57 | ① | +83 | +47 | +81 | +03 | +58 | +65 | +85 | +15 | +40 | +78 | +47 | +13 | +90 | +93 | ④ | +69 | +89 | +10 | +55 | +95

EB IL RTE 56

R4-7-2430

TEMPORARY VIDEO DETECTION

128+67.34
74.17' RT

PAVT MARK TAPE T4
24" (WHITE)

PAVT MARK TAPE T4
4" (YELLOW)

W1-4C(O)-48

M4-15
2412
M3-1
2412
M1-1
3024
M6-1L
2115

TOLL NORTH INTERSTATE 355

END WORK ZONE SPEED LIMIT
G20-I103-6036

TOLL NORTH INTERSTATE 355 LEFT LANE
TOLL SOUTH INTERSTATE 355 RIGHT LANE

M4-15 2412 M3-1 2412 M1-1 3024 M5-6 2418
M4-15 2412 M3-1 2412 M1-1 3024 M5-4 2418

MATCHLINE A-A

127+32.05
569.75' RT

PAVT MARK TAPE T4
4" (YELLOW)

TOLL PLAZA

ROAD CONSTRUCTION AHEAD
200'
W20-I103(O)-48
M6-1L-2115(O)

N

0 50 100 150
SCALE IN FEET

ADVANCED SIGNING DETAIL

BEGIN LANE SHIFT
150' | 350' | 500' | 350'

W21-1(0)-48

WORK ZONE / SPEED LIMIT 35 / PHOTO ENFORCED / $250 FINE MINIMUM
W2-I115(0) 3618
R2-1 3648
R10-I108P 3618
R2-I106P 3618

W3-5(0)-48

ROAD CONSTRUCTION AHEAD
W20-I103(0)-48

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 1

SCALE: 1"=50' | SHEET 9 OF 28 SHEETS | STA. 119+00.00 | TO STA. 132+10.00

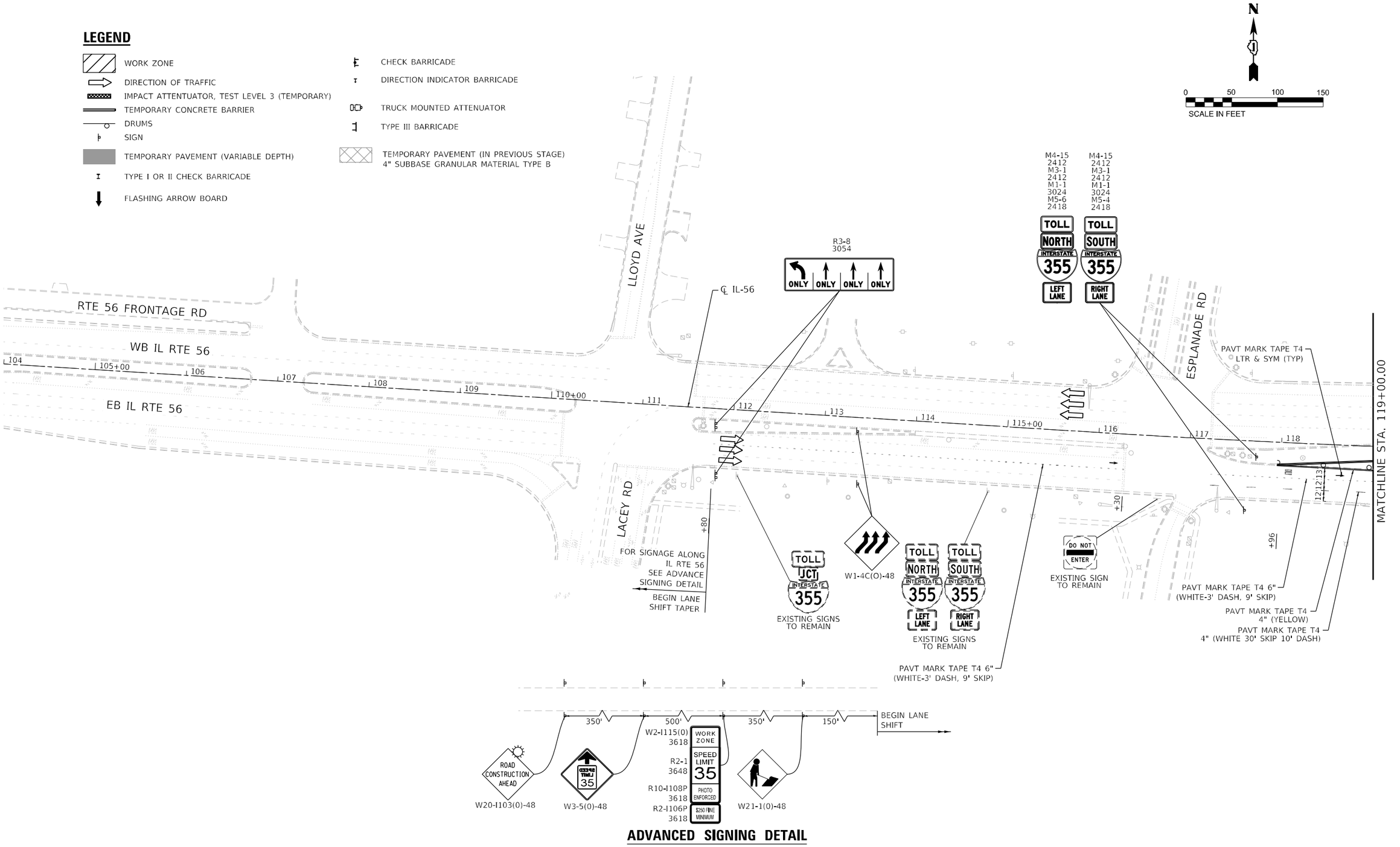
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	21
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150
SCALE IN FEET



ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - STAGE 2
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' | SHEET 10 OF 28 SHEETS | STA. 117+24.00 TO STA. 119+00.00
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	22
		CONTRACT NO. 62M34		
		ILLINOIS | FED. AID PROJECT		

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

MATCHLINE STA. 119+00.00

ROAD CONSTRUCTION AHEAD
W20-I103(O)-48
M6-1L-2115(O)
200'

123+64.80
452.59' LT

TAPER 200'
PAVT MARK TAPE T4 4" (YELLOW)
PAVT MARK TAPE T4 24" (WHITE)
PAVT MARK TAPE T4 24" (WHITE)
TEMPORARY VIDEO DETECTION
RAMP A
13'11"

M4-15 2412
M3-1 2412
M1-1 3024
M6-1L 2115
TOLL SOUTH INTERSTATE 355

G20-I103-6036
END WORK ZONE SPEED LIMIT

M4-15 2412
M3-1 2412
M1-1 3024
M6-2L 2115
TOLL NORTH INTERSTATE 355

R4-7-2430
R3-2 2424

122+78.11
75.43' LT

R3-5 3012 PLACED OVER EX SIGN
SIGN TO BE COVERED
ONLY

WB IL RTE 56

PAVT MARK TAPE T4 4" (YELLOW)
PAVT MARK TAPE T4 6" (WHITE)
PAVT MARK TAPE T4 4" (WHITE 30' SKIP 10' DASH)
325.00 LF TEMP CONCRETE BARRIER TO BE PINNED
PAVT MARK TAPE T4 6" (WHITE-3' DASH, 9' SKIP)
TAPER (35:1)
PAVT MARK TAPE T4 4" (YELLOW)
PAVT MARK TAPE T4 4" (WHITE 30' SKIP 10' DASH)
PAVT MARK TAPE T4 8" (WHITE)
PAVT MARK TAPE T4 12" (WHITE) (TYP)
PAVT MARK TAPE T4 24" (WHITE)
PAVT MARK TAPE T4 LTR & SYM (TYP)
PAVT MARK TAPE T4 24" (WHITE)
PAVT MARK TAPE T4 12" (WHITE) (TYP)
PAVT MARK TAPE T4 8" (WHITE)

EXISTING SIGN TO REMAIN
EXISTING SIGNS TO REMAIN
EXISTING SIGNS TO REMAIN

W1-6L(O)-6030 W1-6R(O)-6030
TO BE MOUNTED OVER TY III BARRICADE

W2-I115(O) 3618 WORK ZONE
R2-1 3648 SPEED LIMIT 35
R10-I108P 3618 PHOTO ENFORCED
R2-I106P 3618 $250 FINE MINIMUM

RAMP B
SB I-355
NB I-355
RAMP C
RAMP D

W1-4b(O)-48

128+67.34
74.17' RT

127+32.05
569.75' RT

TEMPORARY VIDEO DETECTION
PAVT MARK TAPE T4 24" (WHITE)
PAVT MARK TAPE T4 4" (YELLOW)
TOLL PLAZA

ROAD CONSTRUCTION AHEAD
W20-I103(O)-48
M6-1L-2115(O)
200'

MATCHLINE A-A
MATCHLINE A-A

EX GUIDE SIGNS TO REMIAN

① PAY TOLL THIS RAMP — INTERSTATE 355 SOUTH TOLLWAY — Joliet ← — $.90 CARS WITH COINS ¢ OR $ - NO ATTENDANT

② PAY TOLL THIS RAMP — INTERSTATE 355 SOUTH TOLLWAY — Joliet → — $.90 CARS WITH COINS ¢ OR $ - NO ATTENDANT

③ TOLL INTERSTATE 355 NORTH — Northwest Suburbs ←

④ TOLL INTERSTATE 355 NORTH — Northwest Suburbs →

EXISTING SIGNS TO REMAIN
TOLL SOUTH INTERSTATE 355 — LEFT LANE
TOLL NORTH INTERSTATE 355 — RIGHT LANE

FOR SIGNAGE ALONG IL RTE 56 SEE ADVANCE SIGNING DETAIL

BEGIN LANE SHIFT TAPER ALONG IL-56
W1-4b(O)-48

EB IL RTE 56

C IL-56

M4-15 2412
M3-1 2412
M1-1 3024
M5-6 2418
M4-15 2412
M3-1 2412
M1-1 3024
M5-4 2418

ADVANCED SIGNING DETAIL

BEGIN LANE SHIFT
150' 350' 500' 350'

W21-1(0)-48
W2-I115(0) 3618 WORK ZONE
R2-1 3648 SPEED LIMIT 35
R10-I108P 3618 PHOTO ENFORCED
R2-I106P 3618 $250 FINE MINIMUM
W3-5(0)-48
W20-I103(0)-48

N

0 50 100 150
SCALE IN FEET

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 2

SCALE: 1"=50' | SHEET 11 OF 28 SHEETS | STA. 119+00.00 | TO STA. 133+95.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	23
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

LEGEND

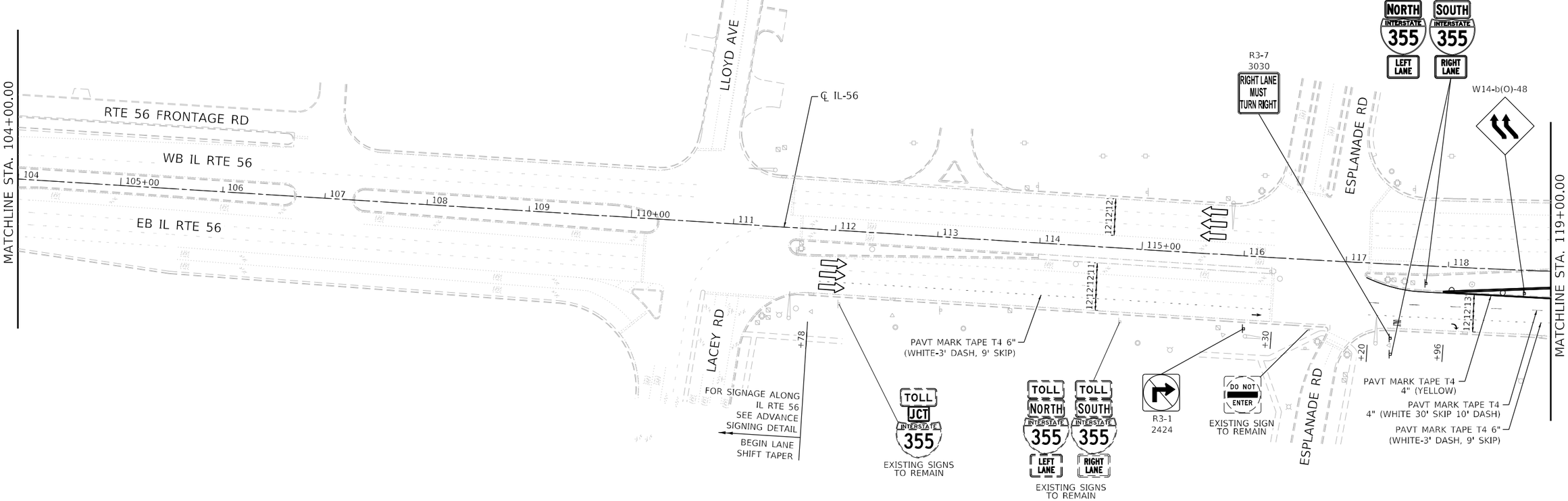
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

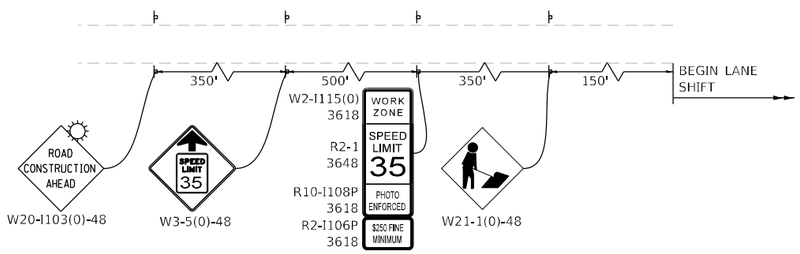
N

0 50 100 150
SCALE IN FEET

M4-15 2412 M3-1 2412 M1-1 3024 M5-6 2418

M4-15 2412 M3-1 2412 M1-1 3024 M5-4 2418





ADVANCED SIGNING DETAIL

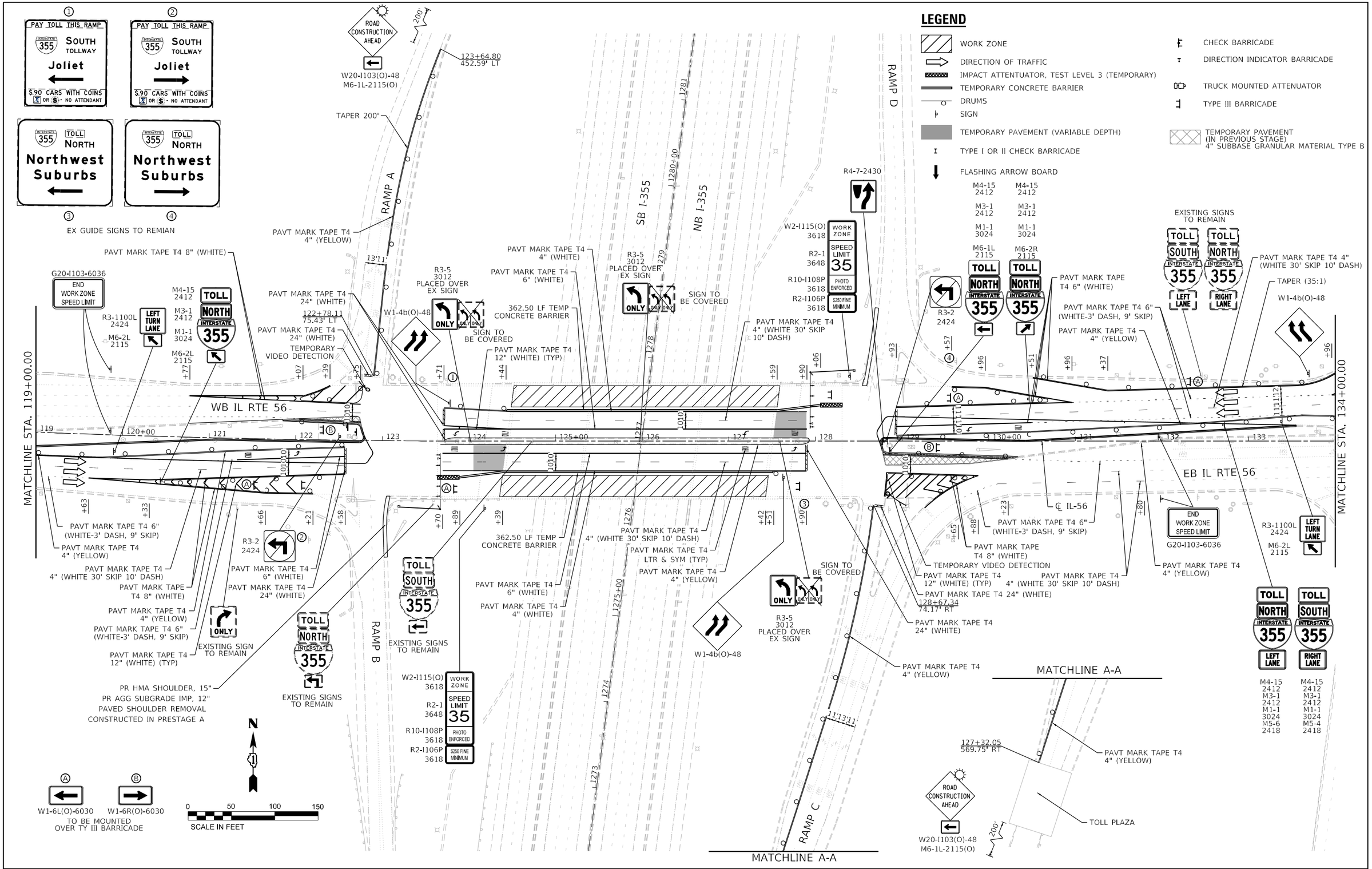
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 3

SCALE: 1"=50' | SHEET 12 OF 28 SHEETS | STA. 111+78.00 TO STA. 119+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	24
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 3

SCALE: 1"=50' | SHEET 13 OF 28 SHEETS | STA. 119+00.00 TO STA. 134+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	25
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150
SCALE IN FEET

ROAD CONSTRUCTION AHEAD
W20-I103(O)-48
M6-1R-2115(O)

FINLEY RD

PAVT MARK TAPE T4 6" (WHITE)

PAVT MARK TAPE T4 4" (YELLOW)

PAVT MARK TAPE T4 6" (WHITE)

R3-1100L 2424
LEFT TURN LANE
M6-2L 2115
W1-4b(O)-48

PAVT MARK TAPE T4 4" (WHITE 30' SKIP 10' DASH)

PAVT MARK TAPE T4 4" (YELLOW)

TAPER 540'

ARROW BOARD

℄ IL-56

FOR SIGNAGE ALONG IL RTE 56 SEE ADVANCE SIGNING DETAIL

BEGIN LANE CLOSURE TAPER ALONG IL-56

DOWNERS DR

WB IL RTE 56

EB IL RTE 56

MATCHLINE STA. 134+00.00

134 | 135+00 | 136 | 137 | 138 | 139 | 140+00 | 141 | 142 | 143 | 144 | 145+00 | 146 | 147 | 148

+09 +29 +34 +33 +56 +31 +58 +37 +58 +98

PAVT MARK TAPE T4 LTR & SYM (TYP)

PAVT MARK TAPE T4 24" (WHITE)

FINLEY RD

DOWNERS DR

BEGIN LANE CLOSURE

350' | 150' | 500' | 350' | 350' | 350'

WORK ZONE — W2-I115(O) 3618
SPEED LIMIT 35 — R2-1 3648
PHOTO ENFORCED — R10-I108P 3618
$250 FINE MINIMUM — R2-I106P 3618

W21-1(0)-48
W3-5(0)-48
W4-2L(O)-48
LEFT LANE CLOSED AHEAD
W20-5L(0)-48
ROAD CONSTRUCTION AHEAD
W20-I103(O)-48

ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 3

SCALE: 1"=50' | SHEET 14 OF 28 SHEETS | STA. 134+00.00 TO STA. 146+98.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	26
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

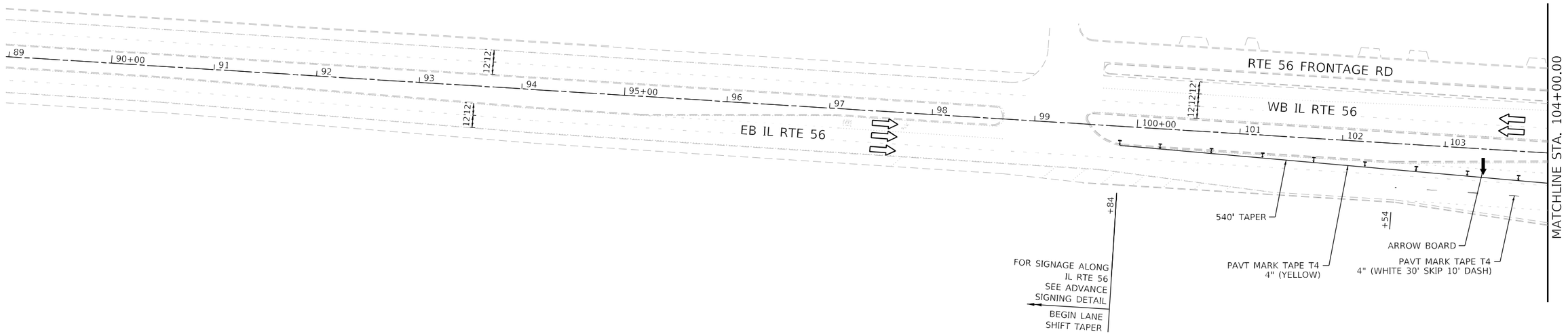
LEGEND

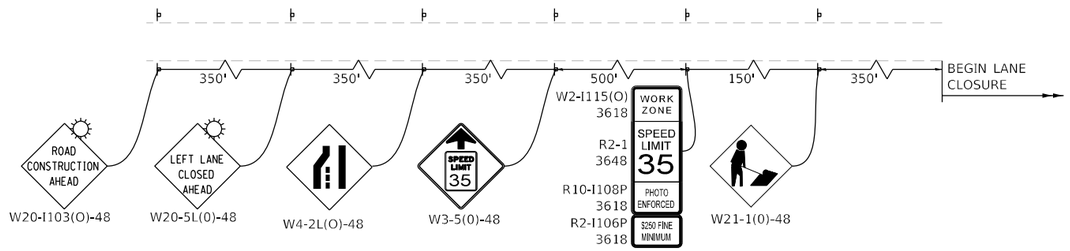
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET





ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - STAGE 4
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		SCALE: 1"=50' SHEET 15 OF 28 SHEETS STA. 99+84.00 TO STA. 104+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	27
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150
SCALE IN FEET

ROAD CONSTRUCTION AHEAD
W20-I103(O)-48
M6-1L-2115(O)

RTE 56 FRONTAGE RD
WB IL RTE 56
EB IL RTE 56
LLOYD AVE
℄ IL-56
ESPLANADE RD
LACEY RD
MATCHLINE STA. 119+00.00

R3-1100L 2424 LEFT TURN LANE
M6-2L 2115
R4-7A 2430 KEEP RIGHT

PAVT MARK TAPE T4 4" (YELLOW)
PAVT MARK TAPE T4 4" (WHITE 30' SKIP 10' DASH)
PAVT MARK TAPE T4 4" (WHITE 30' SKIP 10' DASH)
PAVT MARK TAPE T4 24" (WHITE)
PAVT MARK TAPE T4 LTR & SYM (TYP)
PAVT MARK TAPE T4 6" (WHITE)
PAVT MARK TAPE T4 4" (YELLOW)
PAVT MARK TAPE T4 4" (WHITE 30' SKIP 10' DASH)
PAVT MARK TAPE T4 6" (WHITE)
PAVT MARK TAPE T4 24" (WHITE)
PAVT MARK TAPE T4 4" (YELLOW)

W20-I103(O)-48
M6-1R-2115(O)

TOLL JCT INTERSTATE 355
EXISTING SIGNS TO REMAIN

TOLL NORTH INTERSTATE 355 LEFT LANE
TOLL SOUTH INTERSTATE 355 RIGHT LANE
EXISTING SIGNS TO REMAIN

DO NOT ENTER
EXISTING SIGN TO REMAIN

M4-15 2412
M3-1 2412
M1-1 3024
M5-6 2418

M4-15 2412
M3-1 2412
M1-1 3024
M5-4 2418

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

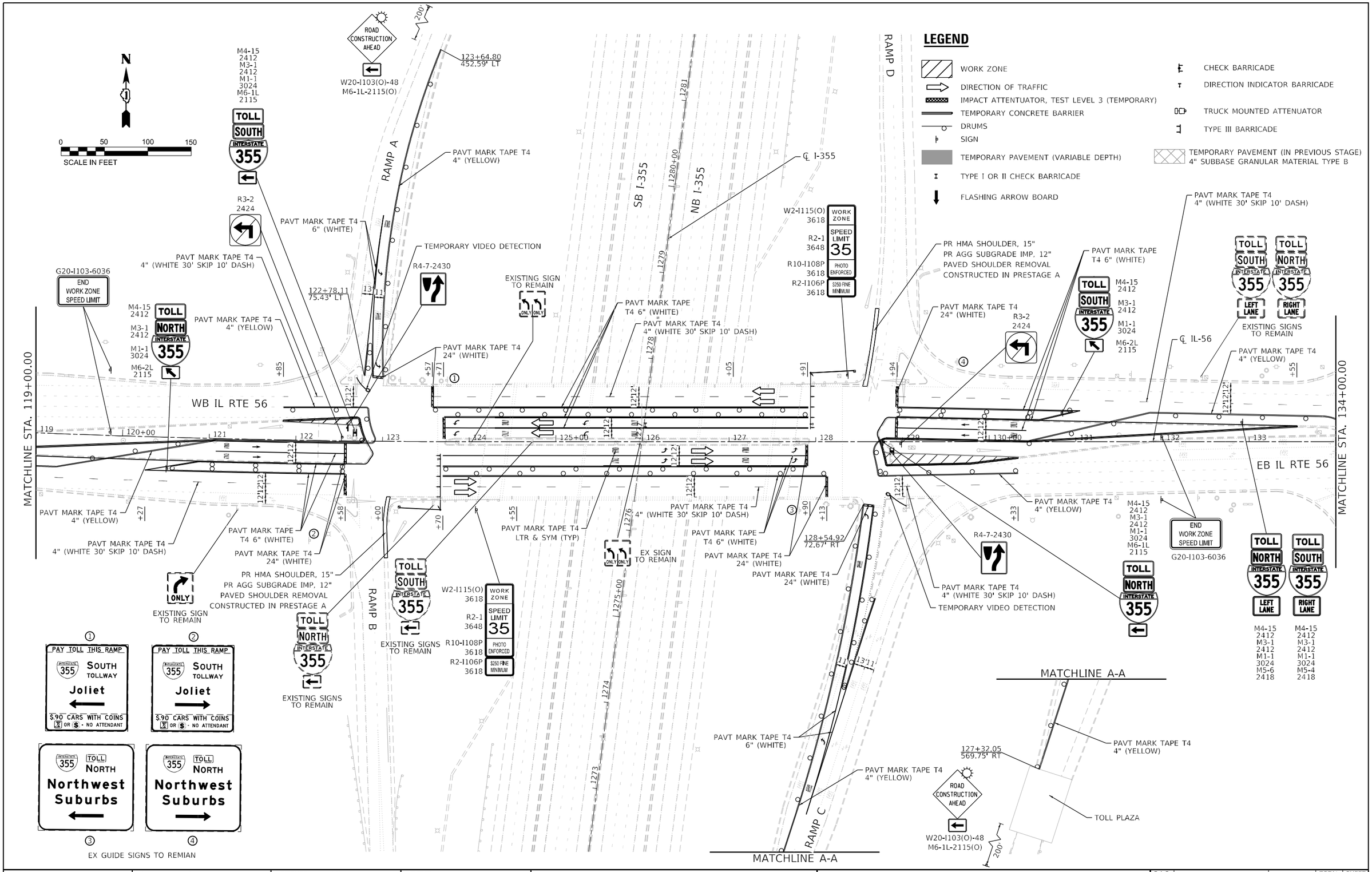
LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 4

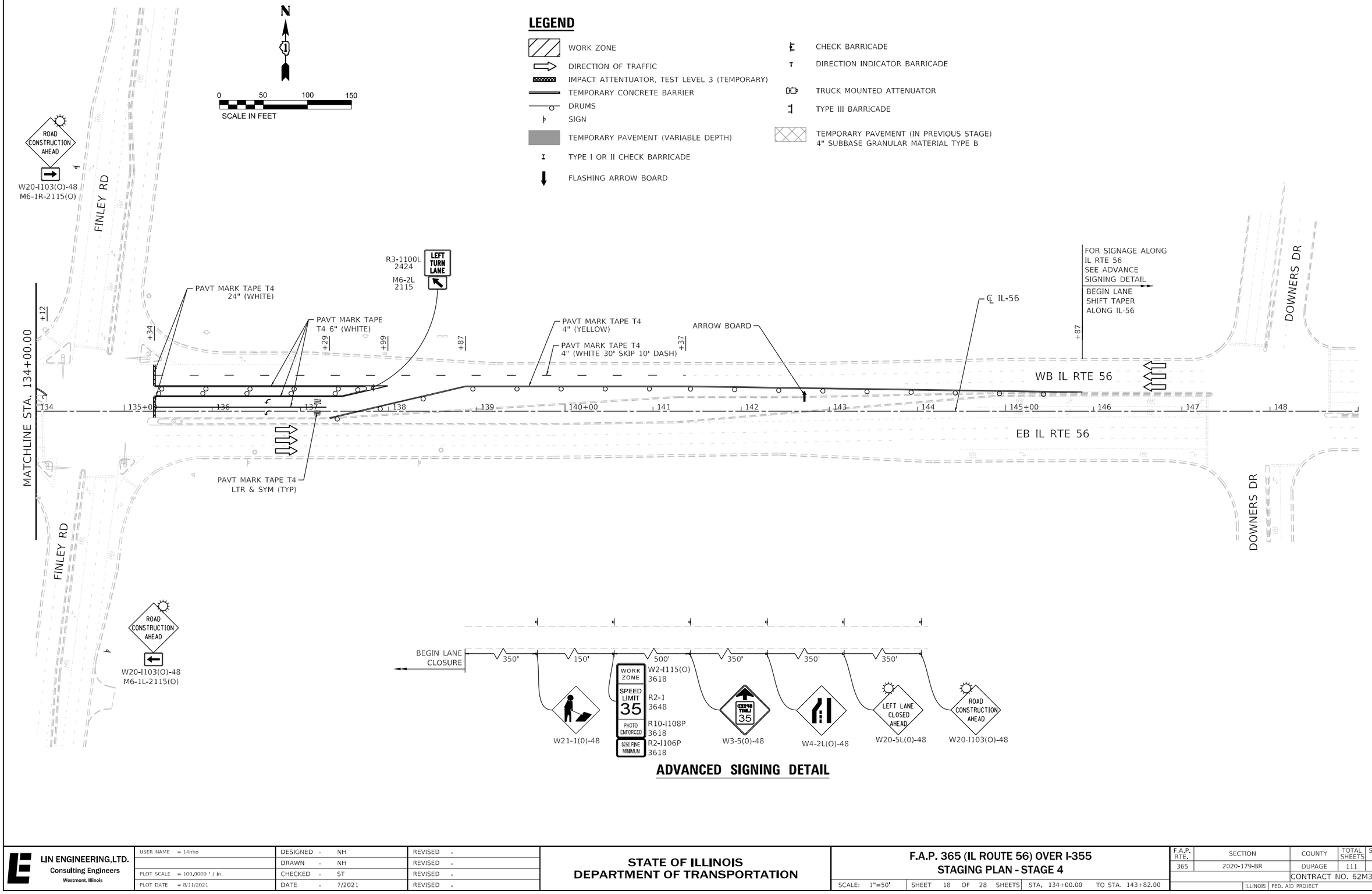
SCALE: 1"=50' | SHEET 16 OF 28 SHEETS | STA. 104+00.00 TO STA. 119+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	28
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - STAGE 4
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' SHEET 17 OF 28 SHEETS STA. 119+00.00 TO STA. 134+00.00
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	29
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - NH	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - STAGE 4

SCALE: 1"=50' | SHEET 18 OF 28 SHEETS | STA. 134+00.00 TO STA. 143+82.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	30
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

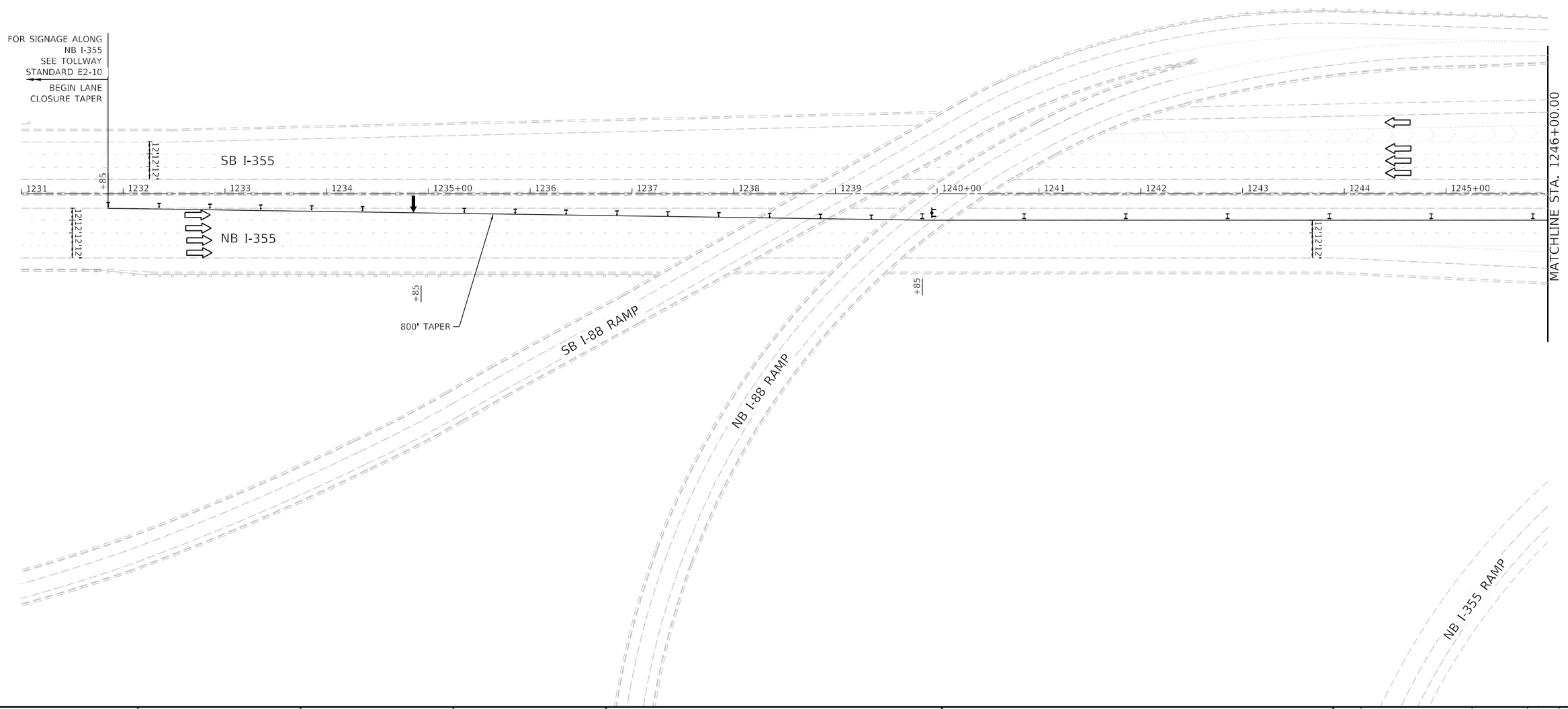
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - POST STAGE A
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' | SHEET 19 OF 28 SHEETS | STA. 1231+00.00 TO STA. 1246+00.00
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	31
		CONTRACT NO. 62M34		
	ILLINOIS | FED. AID PROJECT			

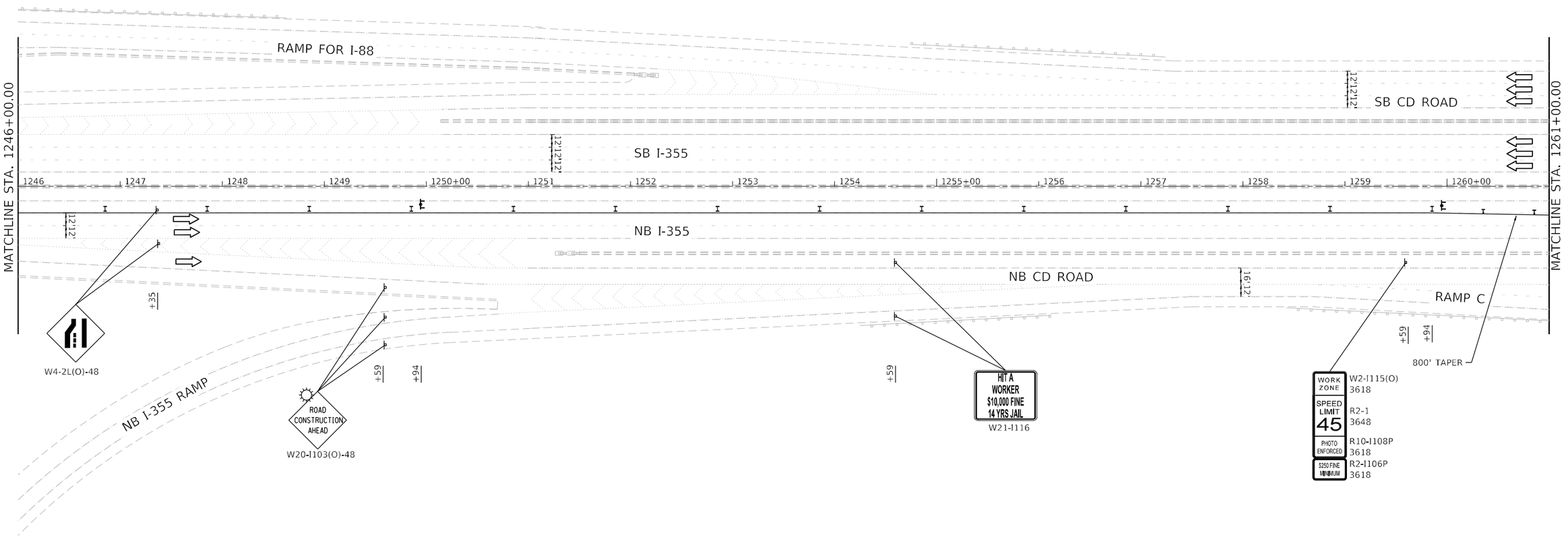
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - POST STAGE A
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: 1"=50' | SHEET 20 OF 28 SHEETS | STA. 1246+00.00 TO STA. 1261+00.00
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	32
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

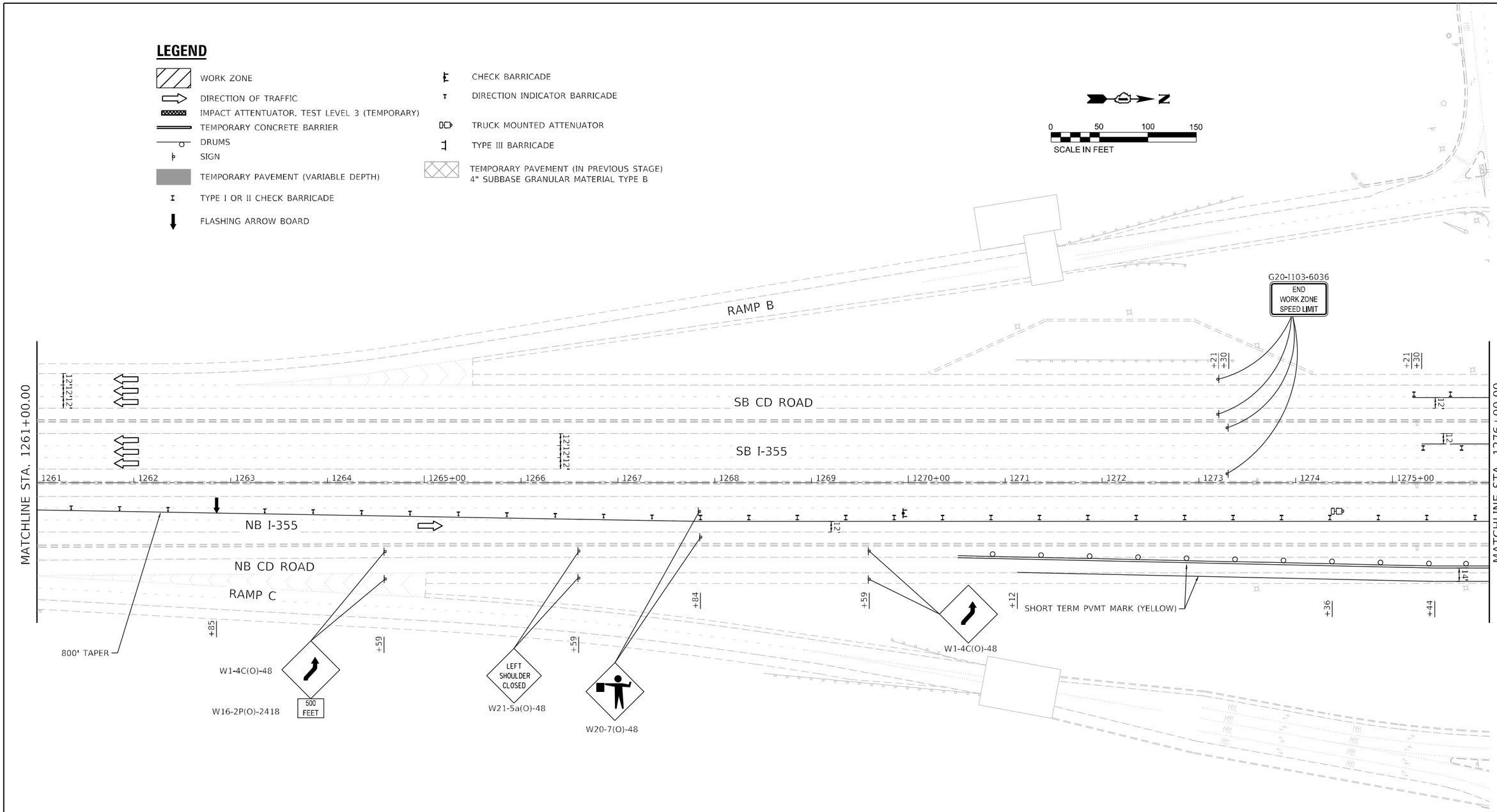
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET



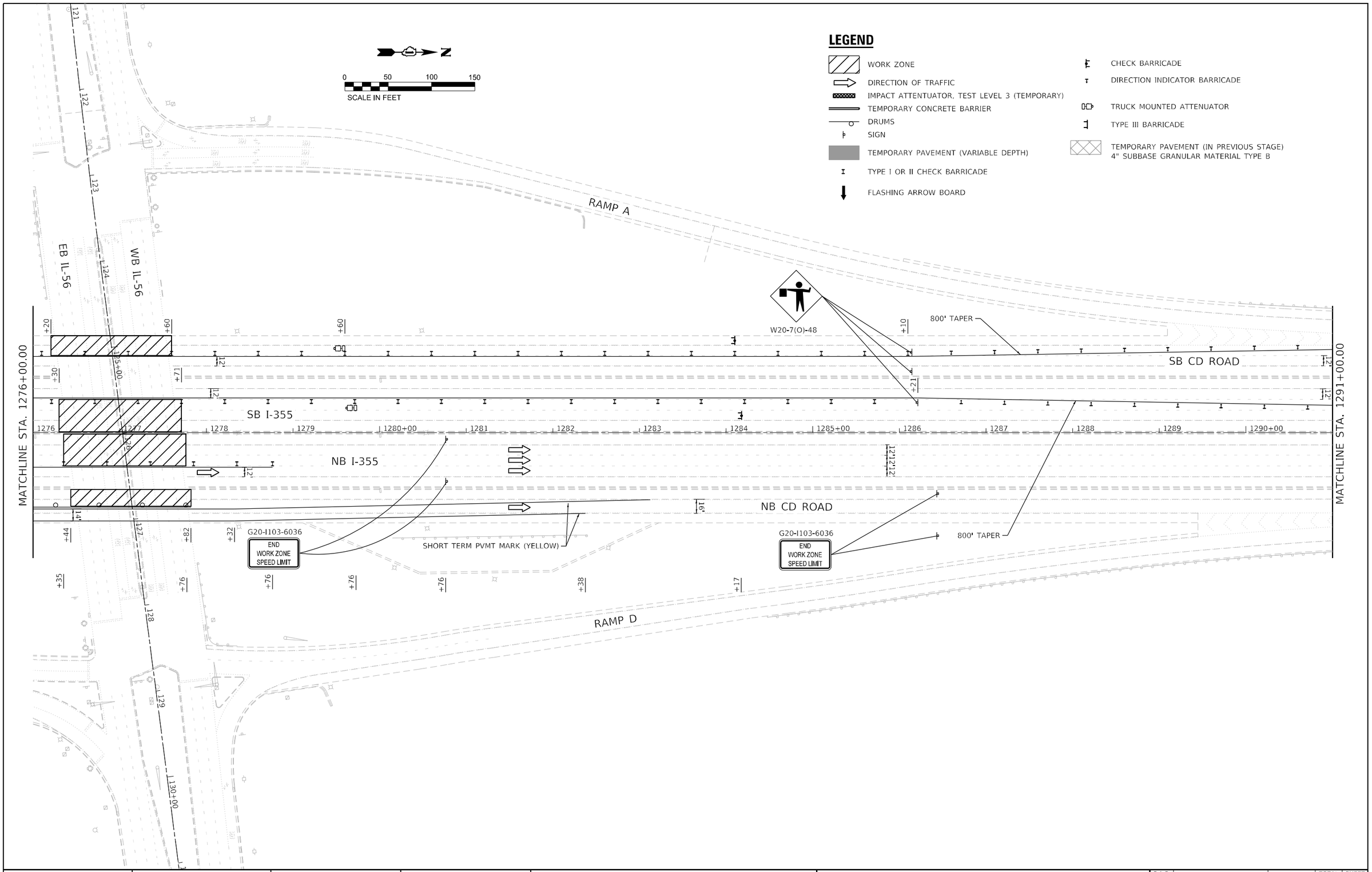
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - POST STAGE A

SCALE: 1"=50' | SHEET 21 OF 28 SHEETS | STA. 1261+00.00 TO STA. 1276+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	33
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - POST STAGE A

SCALE: 1"=50' | SHEET 22 OF 28 SHEETS | STA. 1276+00.00 TO STA. 1291+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	34
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

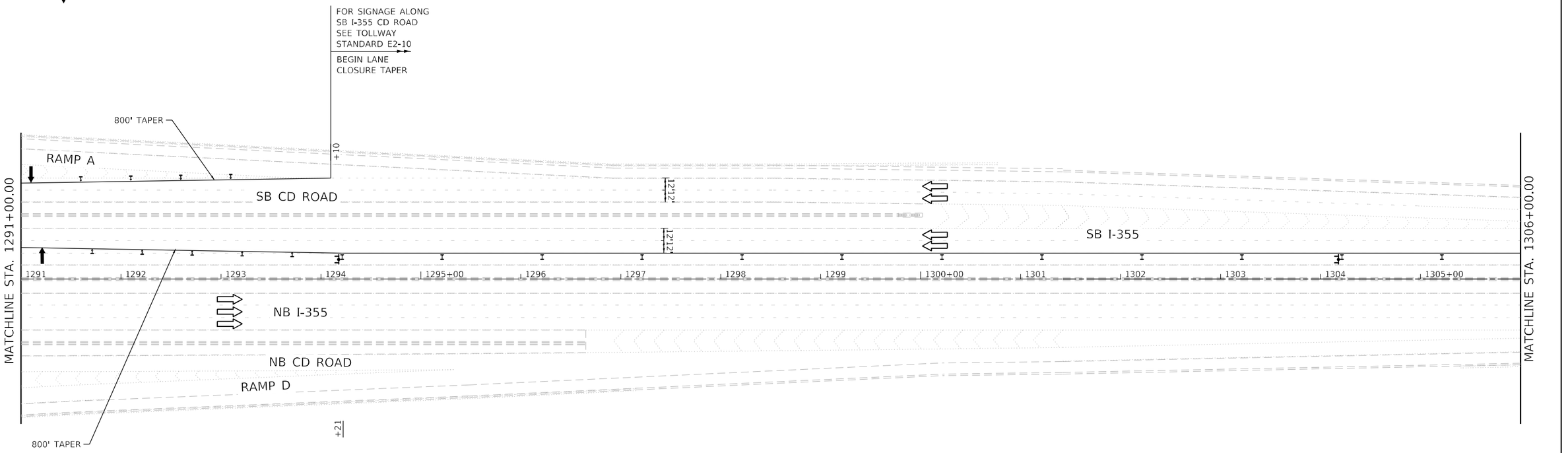
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - NH	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - POST STAGE A

SCALE: 1"=50' | SHEET 23 OF 28 SHEETS | STA. 1291+00.00 TO STA. 1306+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	35
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

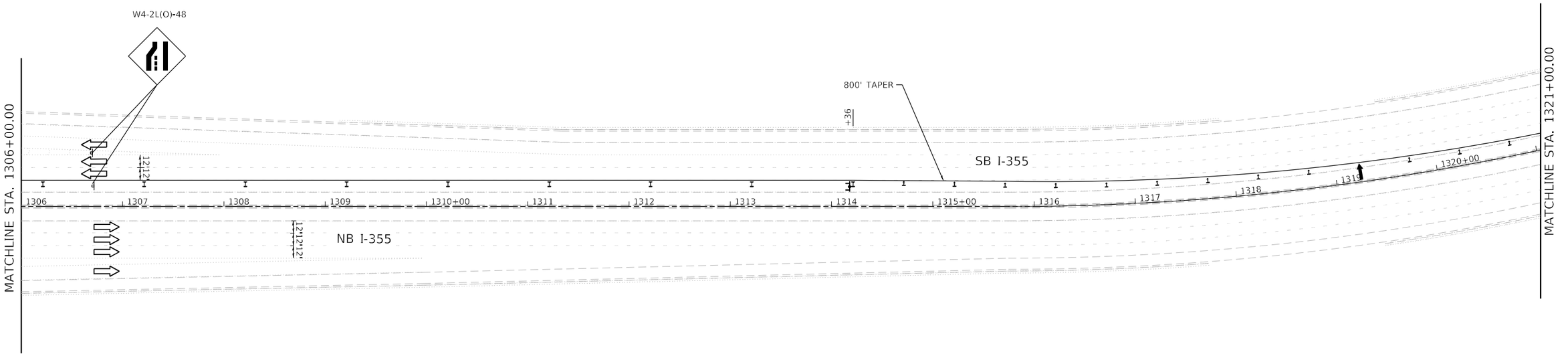
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

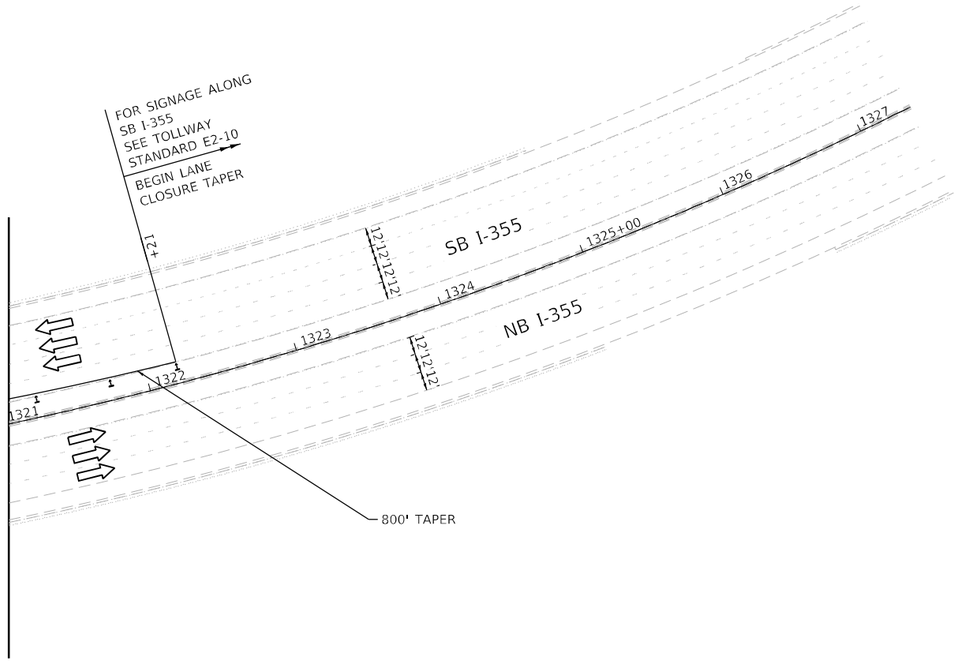
0 50 100 150

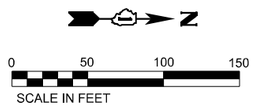
SCALE IN FEET



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - POST STAGE A
		DRAWN - NH	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		SCALE: 1"=50' SHEET 24 OF 28 SHEETS STA. 1306+00.00 TO STA. 1321+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	36
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		





LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - POST STAGE A

SCALE: 1"=50' | SHEET 25 OF 28 SHEETS | STA. 1321+00.00 TO STA. 1327+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	37
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

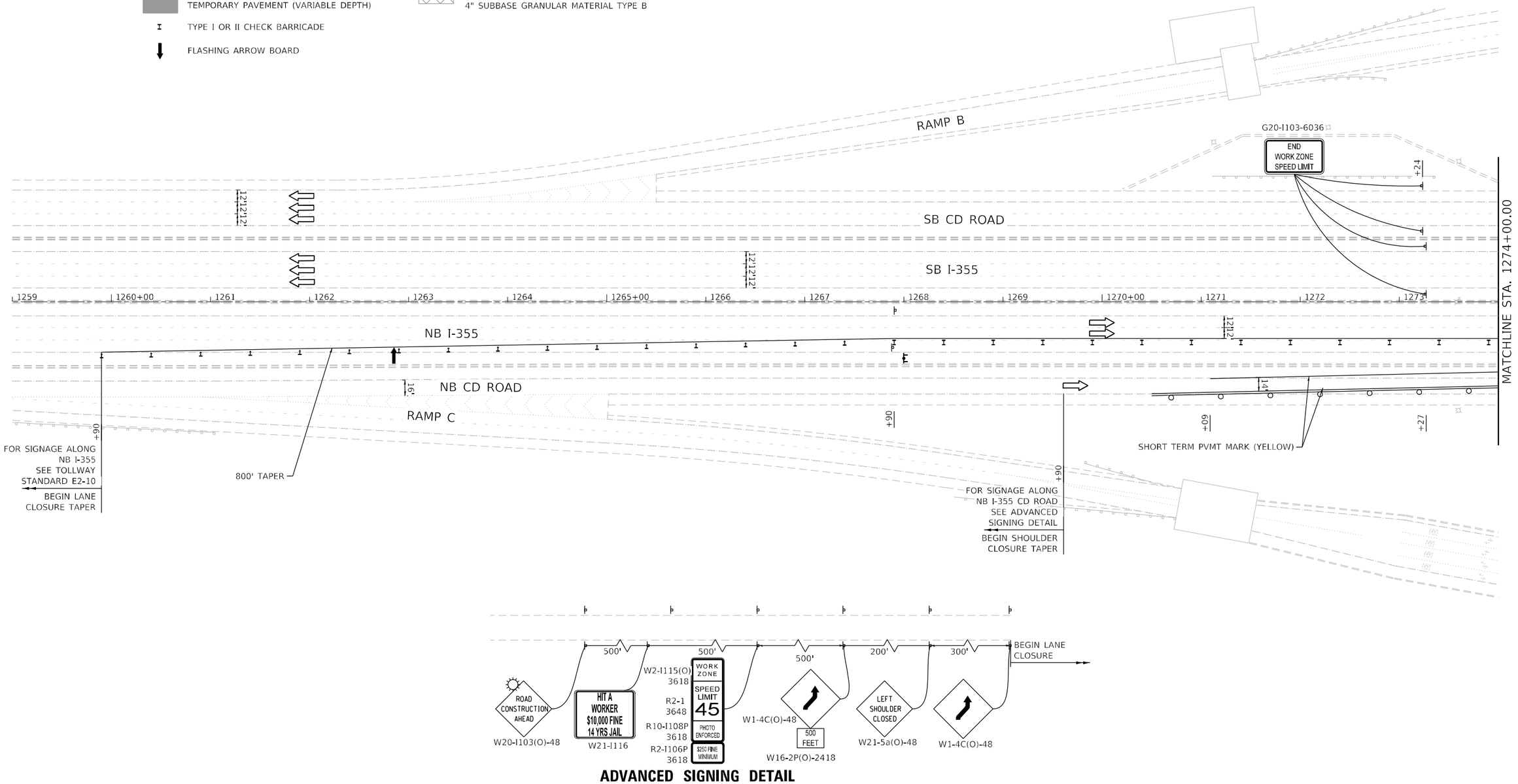
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

N

0 50 100 150

SCALE IN FEET



ADVANCED SIGNING DETAIL

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 STAGING PLAN - POST STAGE B
		DRAWN - NH	REVISED -		SCALE: 1"=50' SHEET 26 OF 28 SHEETS STA. 1259+00.00 TO STA. 1274+00.00
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	38
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

N

0 50 100 150
SCALE IN FEET

RAMP B

RAMP A

EB IL-56

WB IL-56

121 122 123 124 125 126 127 128 129 130+00

800' TAPER

800' TAPER

SB CD ROAD

SB I-355

NB I-355

NB CD ROAD

MATCHLINE STA. 1274+00.00

MATCHLINE STA. 1289+00.00

1274 1275+00 1276 1277 1278 1279 1280+00 1281 1282 1283 1284 1285+00 1286 1287 1288

+24 +24 +63 +63 +13 +40 +49 +27 +40 +99 +80 +80 +66 +80 +47 +20 +16

SHORT TERM PVMT MARK (YELLOW)

G20-I103-6036
END
WORK ZONE
SPEED LIMIT

G20-I103-6036
END
WORK ZONE
SPEED LIMIT

RAMP C

RAMP D

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
- FLASHING ARROW BOARD
- CHECK BARRICADE
- DIRECTION INDICATOR BARRICADE
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- TEMPORARY PAVEMENT (IN PREVIOUS STAGE) 4" SUBBASE GRANULAR MATERIAL TYPE B

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

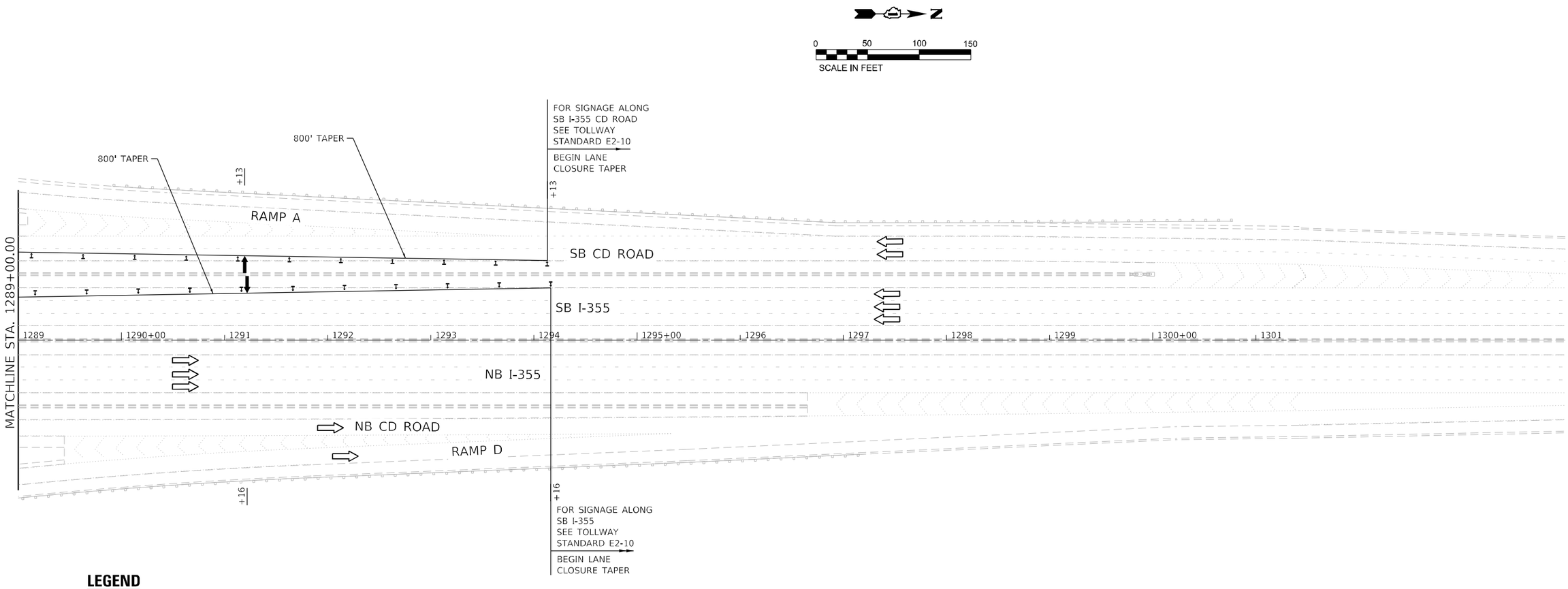
USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - POST STAGE B

SCALE: 1"=50' | SHEET 27 OF 28 SHEETS | STA. 1274+00.00 TO STA. 1289+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	39
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			



LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENTUATOR, TEST LEVEL 3 (TEMPORARY)
- TEMPORARY CONCRETE BARRIER
- DRUMS
- SIGN
- TEMPORARY PAVEMENT (VARIABLE DEPTH)
- TYPE I OR II CHECK BARRICADE
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LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

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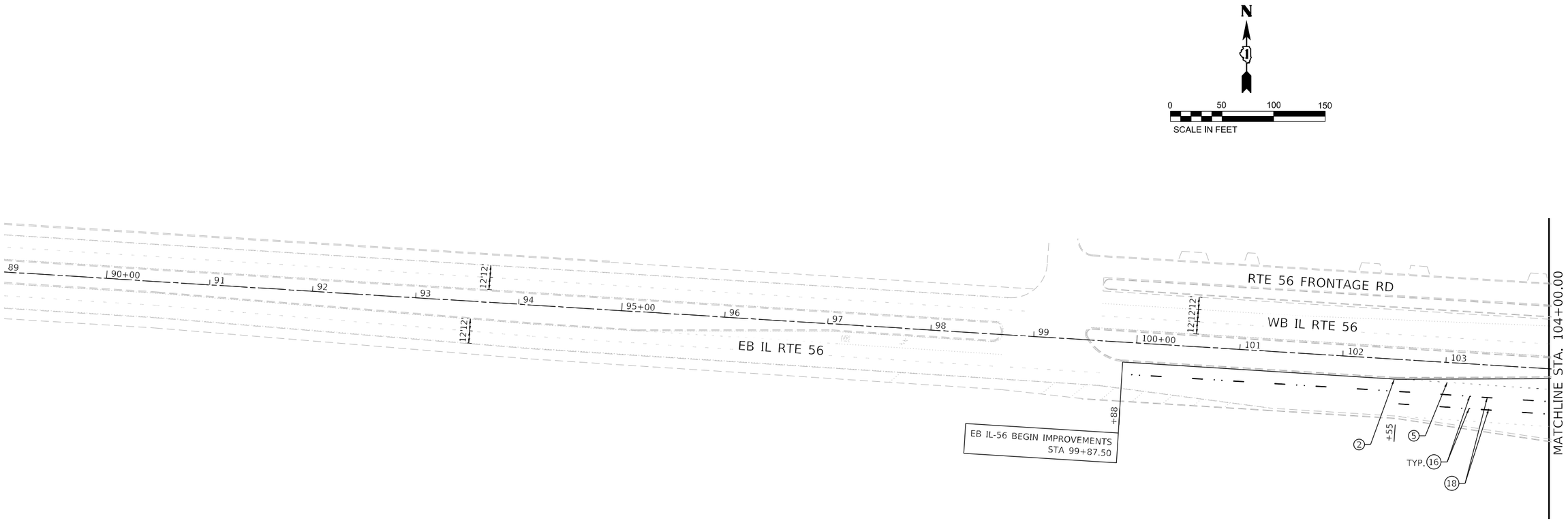
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
STAGING PLAN - POST STAGE B

SCALE: 1"=50' | SHEET 28 OF 28 SHEETS | STA. 1289+00.00 TO STA. 1304+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	40
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	



PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
2. THERMOPLASTIC PAVEMENT MARKING 4" (YELLOW SOLID)
3. THERMOPLASTIC PAVEMENT MARKING 4" (WHITE SOLID)
4. THERMOPLASTIC PAVEMENT MARKING 6" (WHITE SOLID)
5. THERMOPLASTIC PAVEMENT MARKING 6" (WHITE 2' DASH 6' SKIP)
6. THERMOPLASTIC PAVEMENT MARKING 8" (WHITE SOLID)
7. THERMOPLASTIC PAVEMENT MARKING 24" (WHITE SOLID)
8. PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - 5" (WHITE 30' SKIP, 10' DASH)
9. MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. MODIFIED URETHANE PAVEMENT MARKING 4" (WHITE SOLID)
11. MODIFIED URETHANE PAVEMENT MARKING 4" (YELLOW SOLID)
12. MODIFIED URETHANE PAVEMENT MARKING 6" (WHITE SOLID)
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14. MODIFIED URETHANE PAVEMENT MARKING 12" (WHITE SOLID)
15. MODIFIED URETHANE PAVEMENT MARKING 24" (WHITE SOLID)
16. REPLACEMENT REFLECTOR
17. RAISED REFLECTIVE PAVEMENT MARKER
18. THERMOPLASTIC PAVEMENT MARKING 4" (WHITE 30' SKIP, 10' DASH)
19. THERMOPLASTIC PAVEMENT MARKING 4" (YELLOW 2' DASH 6' SKIP)

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

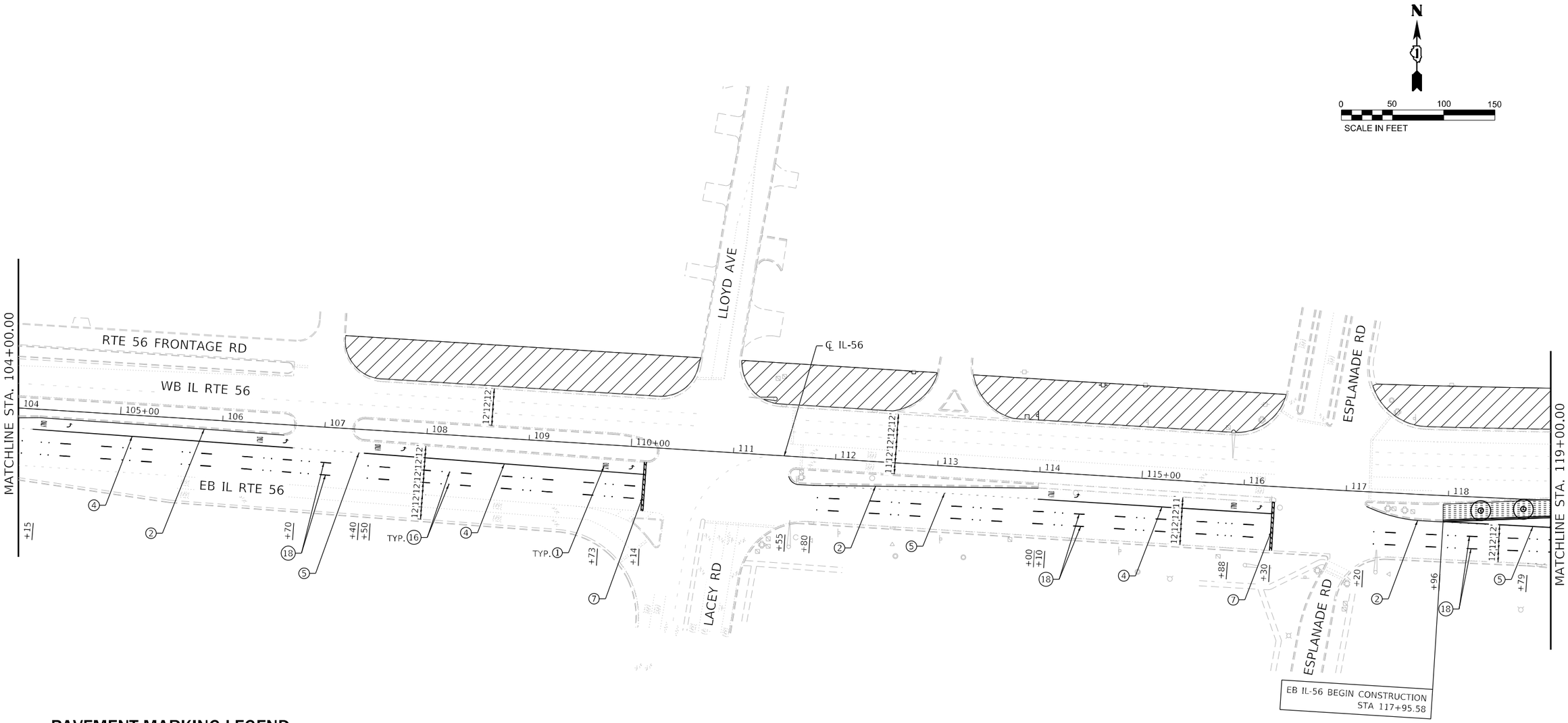
USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
ROADWAY PLAN

SCALE: 1"=50' | SHEET 1 OF 6 SHEETS | STA. 99+87.95 | TO STA. 104+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	41
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	



PAVEMENT MARKING LEGEND

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19. THERMOPLASTIC PAVEMENT MARKING 4" (YELLOW 2' DASH 6' SKIP)

ROADWAY LEGEND

- (A) INLETS TO BE ADJUSTED
- (B) CATCH BASINS TO BE ADJUSTED
- SODDING, SALT TOLERANT
- SEEDING CLASS 2A
  MULCH METHOD 3
  WEED CONTROL, AQUATIC
  WEED CONTROL, TEASEL
- TREE, GYMNOCLADUS DICICUS (KENTUCKY COFFEETREE), (40' OC/MULCH RINGS)

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
ROADWAY PLAN

SCALE: 1"=50' | SHEET 2 OF 6 SHEETS | STA. 104+00.00 | TO STA. 119+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	42
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

ROADWAY LEGEND

- (A) INLETS TO BE ADJUSTED
- (B) CATCH BASINS TO BE ADJUSTED
- SODDING, SALT TOLERANT
- CLASS D PATCH, TYPE 2, 6"
- SEEDING CLASS 2A
  MULCH METHOD 3
  WEED CONTROL, AQUATIC
  WEED CONTROL, TEASEL
- TREE, GYMNOCLADUS DICICUS
  (KENTUCKY COFFEETREE), (40' OC/MULCH RINGS)

N

0 50 100 150
SCALE IN FEET

PR MOD URETHANE
PM 4" (YELLOW)

M4-15
24"X12"
M3-3
24"X12"
M1-4
30"X24"
M3-2
24"X12"
122+68.89
TELESCOPING
STEEL SIGN
SUPPORT & BASE
R3-2
30"x30"
BACK TO BACK

R4-7
24"x30"
122+59.13
TELESCOPING
STEEL SIGN
SUPPORT & BASE

PR CONCRETE MEDIAN SURFACE 4"
PR AGG SUBGRADE IMPR. 12"
TEMP PVMT & C&G CONSTRUCTED
IN PRESTAGE B TO BE REMOVED

TREES IN EX MEDIAN TO BE REMOVED
AND REPALCED

25' APPROACH SLAB
55' TRANSITIONAL APPROACH SLAB
PR 1 3/4" HMA RESURFACING

M4-15
24"X12"
M3-3
24"X12"
M1-4
30"X24"
M3-2
24"X12"
128+78.70
TELESCOPING
STEEL SIGN
SUPPORT & BASE

PR HMA SHOULDER, 15"
PR AGG SUBGRADE IMP, 12"
PAVED SHOULDER REMOVAL
FOR RAMP HMA SHOULDER DETAIL SEE SHEET 43

PR POLY HMA SURFACE COURSE
PR POLY HMA BINDER COURSE
PR PCC BASE COURSE
PR AGG SUBGRADE IMP, 12"
MEDIAN REMOVAL
FOR MEDIAN DETAIL SEE SHEET 42

CONNECT PR PIPE UNDERDRAINS TY 2, 4"
TO EX CATCH BASIN

WB IL-56 END CONSTRUCTION
STA 133+54.97

℄ IL-56

PR POLY HMA SURFACE COURSE
PR POLY HMA BINDER COURSE
PR PCC BASE COURSE
PR AGG SUBGRADE IMP, 12"
MEDIAN REMOVAL
FOR MEDIAN DETAIL SEE SHEET 42

PR 35' BUTT JOINT

PR B6.12 CURB AND GUTTER

25' APPROACH SLAB
55' TRANSITIONAL APPROACH SLAB
PR 1 3/4" HMA RESURFACING

PR 35' BUTT JOINT

PR TOPSOIL FURNISH & PLACE 18"
PR SODDING, SALT TOLERANT
PR AGG SUBGRADE IMPR. 12"
TEMP PVMT & C&G CONSTRUCTED
IN PRESTAGE B TO BE REMOVED

PR B6.12 CURB AND GUTTER

R3-2
30"x30"
R4-7
24"x30"
128+86.74
TELESCOPING STEEL
SIGN SUPPORT & BASE
BACK TO BACK

RAMP A
RAMP B
RAMP C
RAMP D
SB I-355
NB I-355
WB IL RTE 56
EB IL RTE 56
MATCHLINE STA. 119+00.00
MATCHLINE STA. 134+00.00

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
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LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

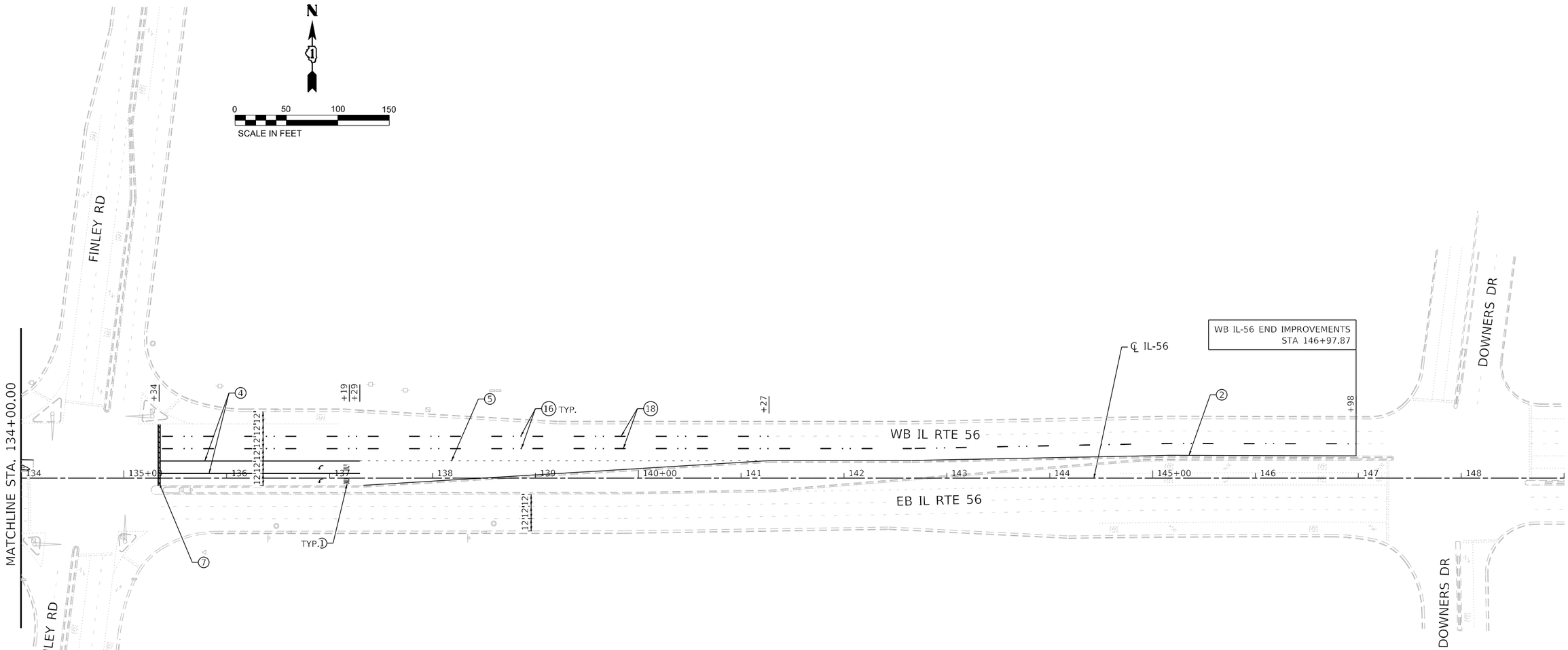
USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
ROADWAY PLAN

SCALE: 1"=50' | SHEET 3 OF 6 SHEETS | STA. 119+00.00 TO STA. 134+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	43
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	



PAVEMENT MARKING LEGEND

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LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

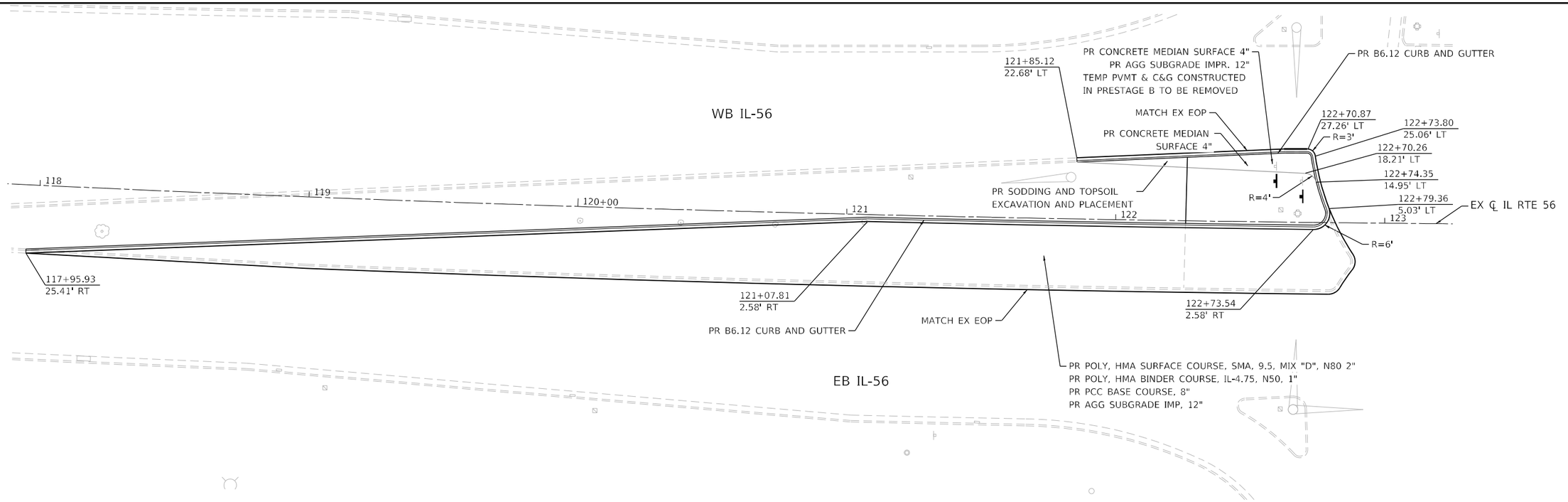
USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

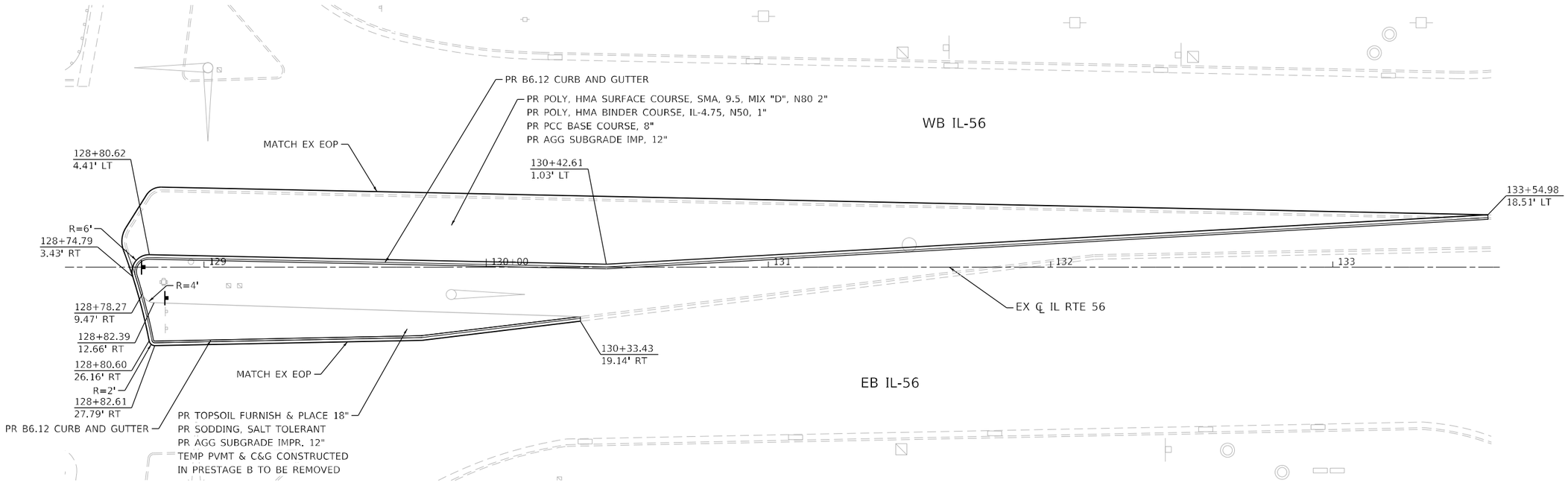
F.A.P. 365 (IL ROUTE 56) OVER I-355
ROADWAY PLAN

SCALE: 1"=50' | SHEET 4 OF 6 SHEETS | STA. 134+00.00 | TO STA. 146+98.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	44
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			



IL-56 WEST MEDIAN DETAIL



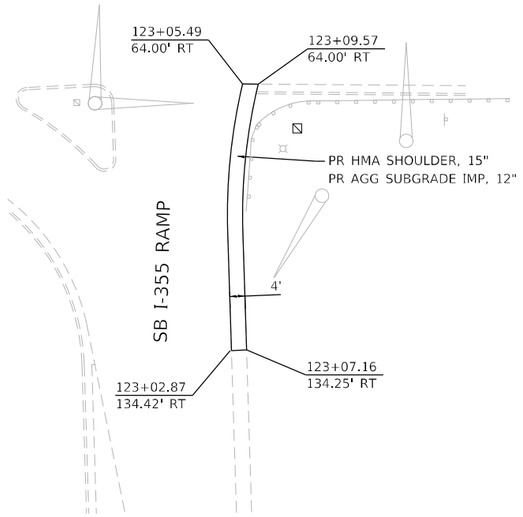
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 40.0012 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

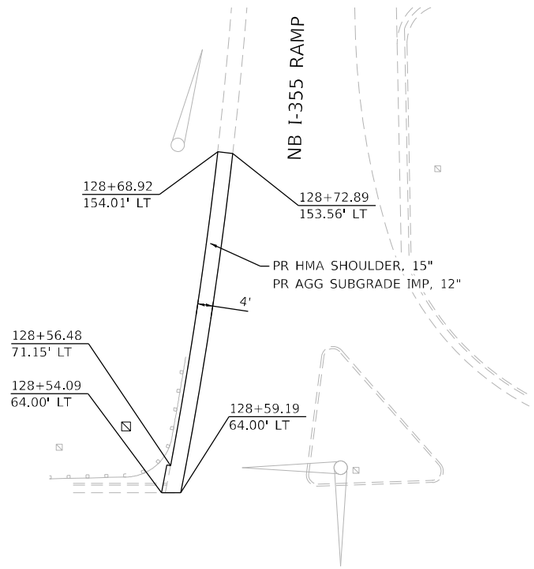
F.A.P. 365 (IL ROUTE 56) OVER I-355
ROADWAY DETAILS

SCALE: 1"=20' | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	45
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



SB I-355 RAMP HMA SHOULDER DETAIL



NB I-355 RAMP HMA SHOULDER DETAIL

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

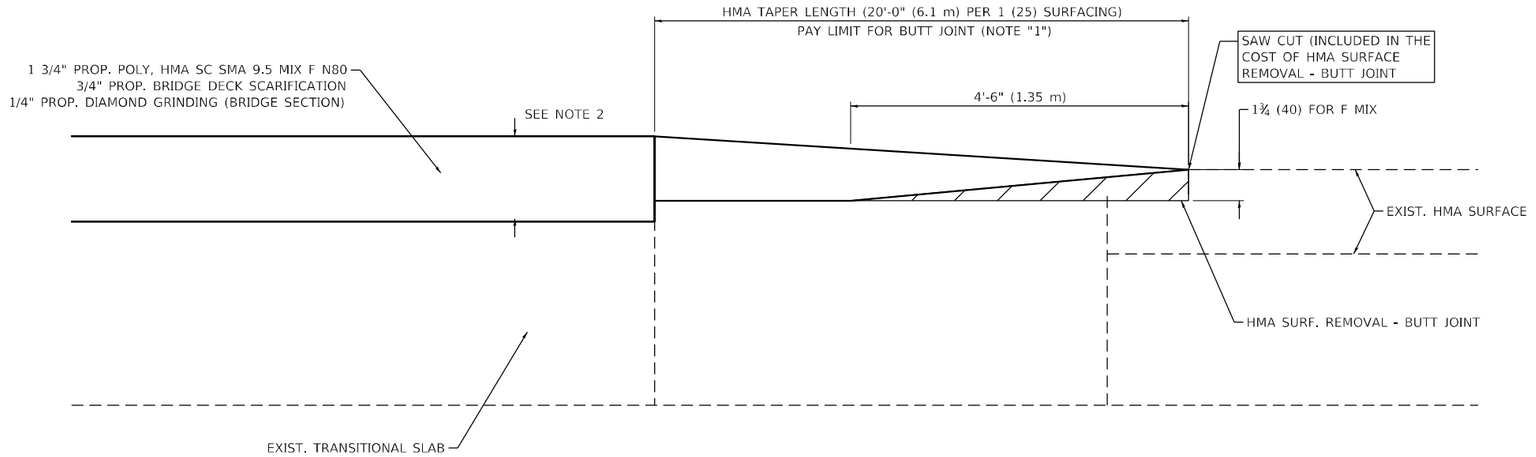
USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 40.0012 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
ROADWAY DETAILS

SCALE: 1"=20' | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	46
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



BUTT JOINT AND HMA TAPER FOR SCARIFICATION AND RESURFACING

NOTES:

1. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
2. SEE BRIDGE PLANS FOR SCARIFICATION THICKNESS.
3. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

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

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS
		DRAWN - NH	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	47
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	48
	TS-05	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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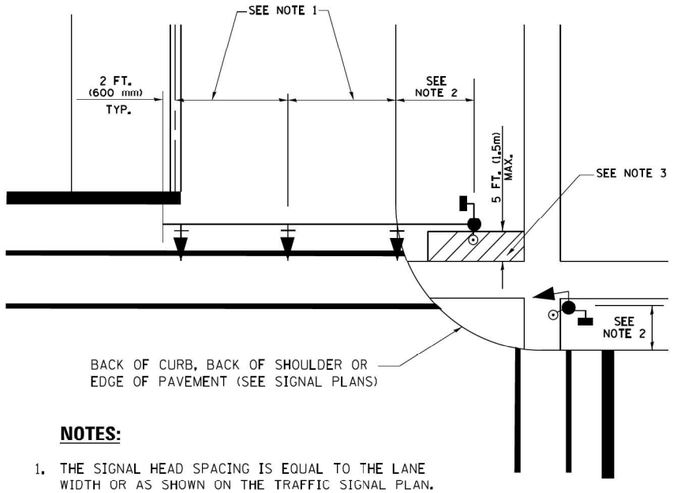
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

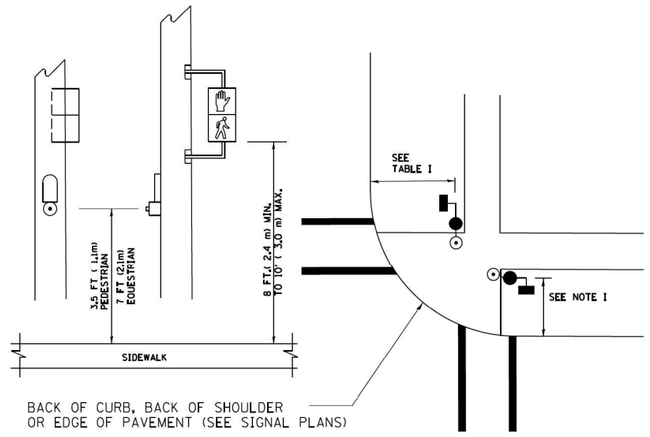
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

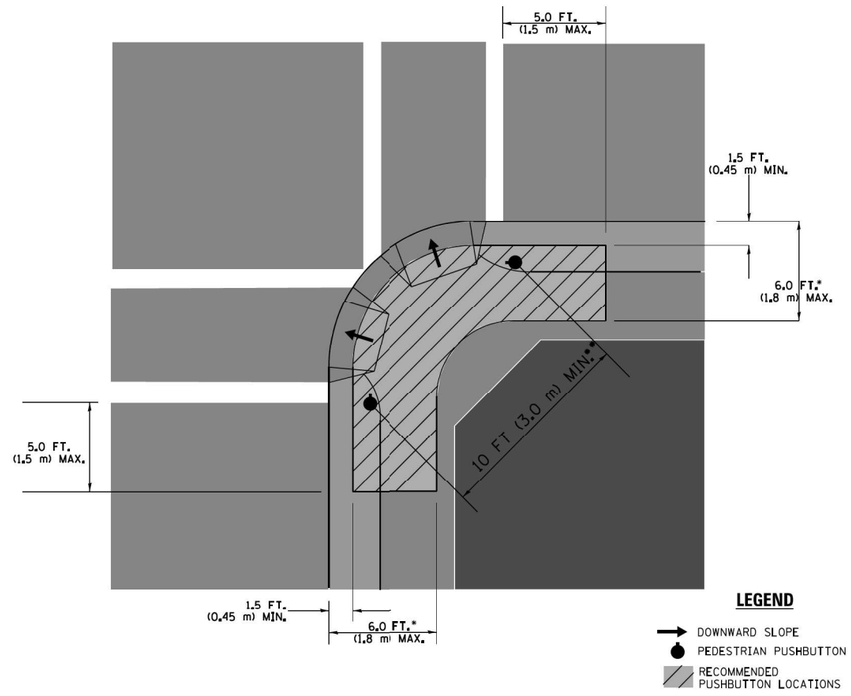
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	49
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FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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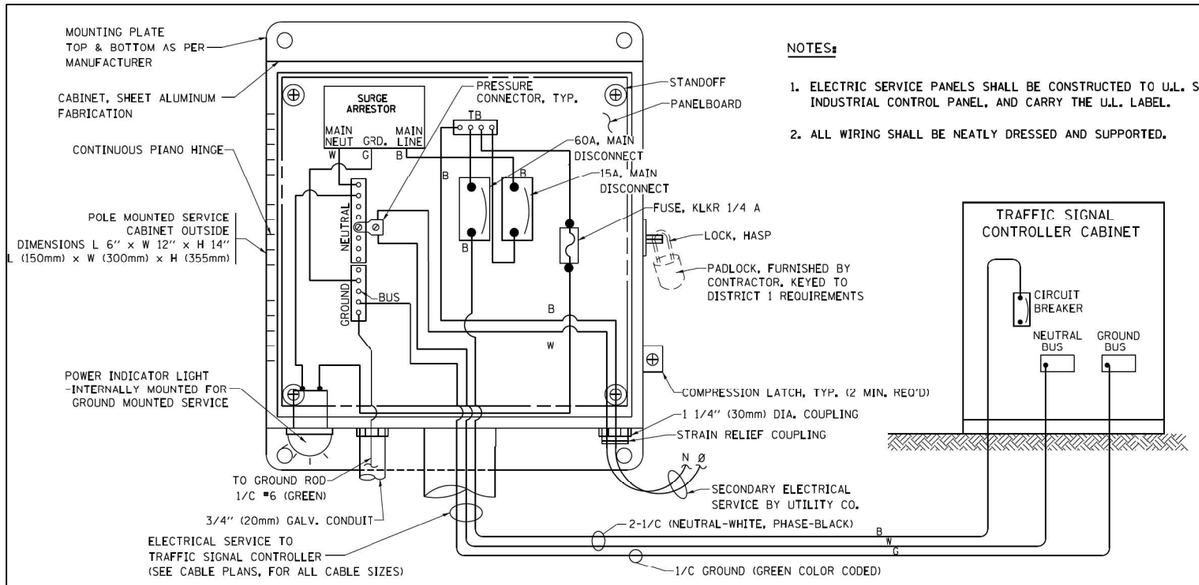
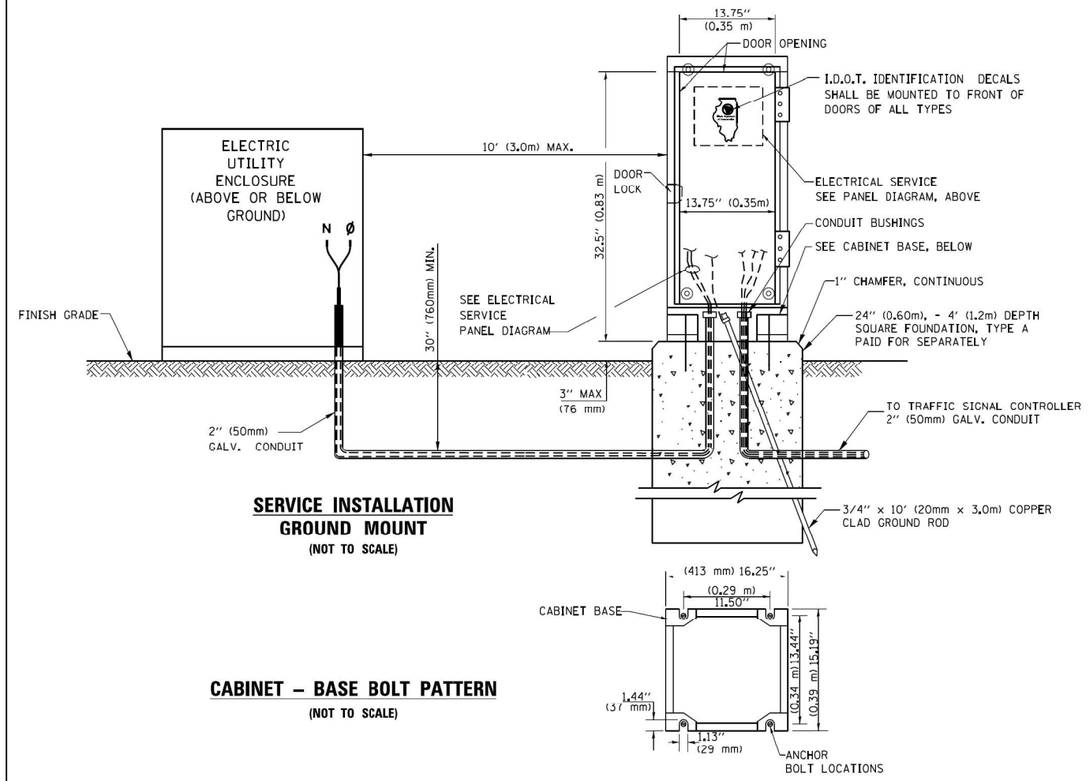


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)

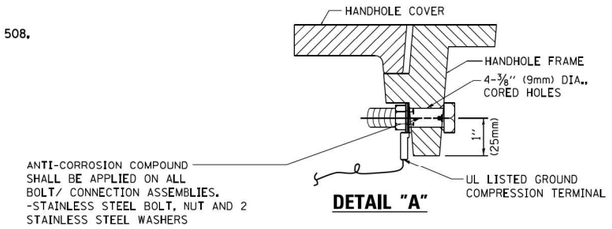
NOTES:

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.

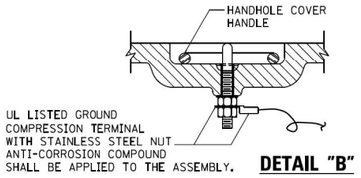


SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



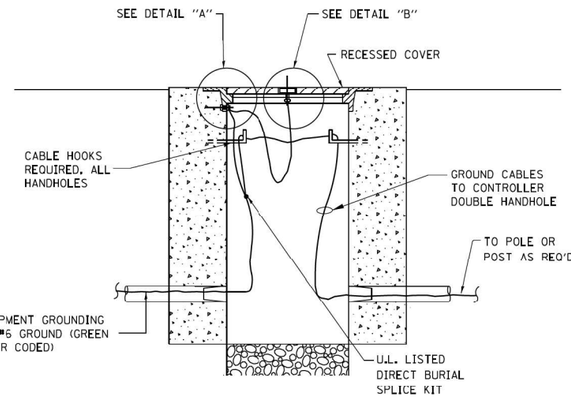
DETAIL "A"



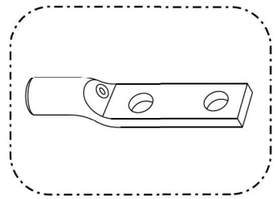
DETAIL "B"

NOTES:
GROUNDING SYSTEM

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



HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)

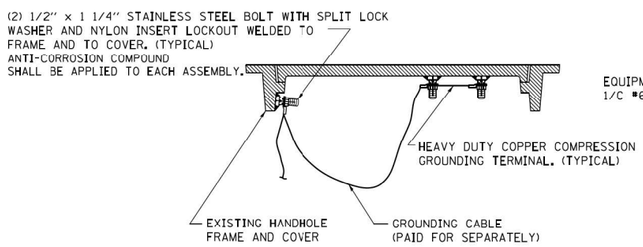


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YCHA OR APPROVED EQUAL)

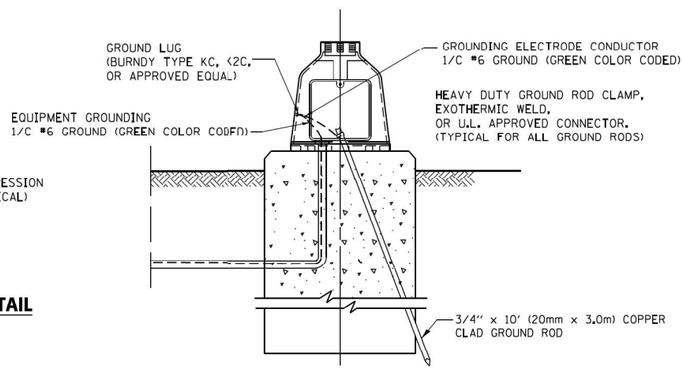
3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

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



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



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

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		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	50
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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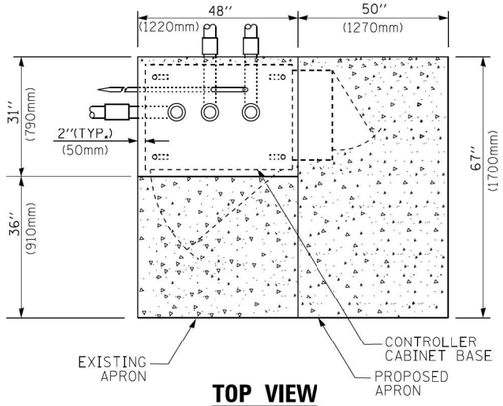
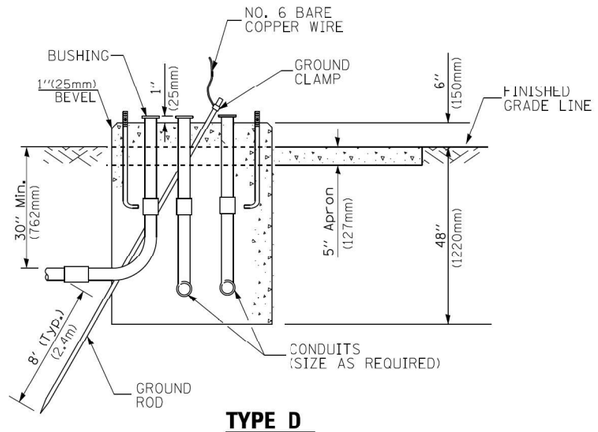
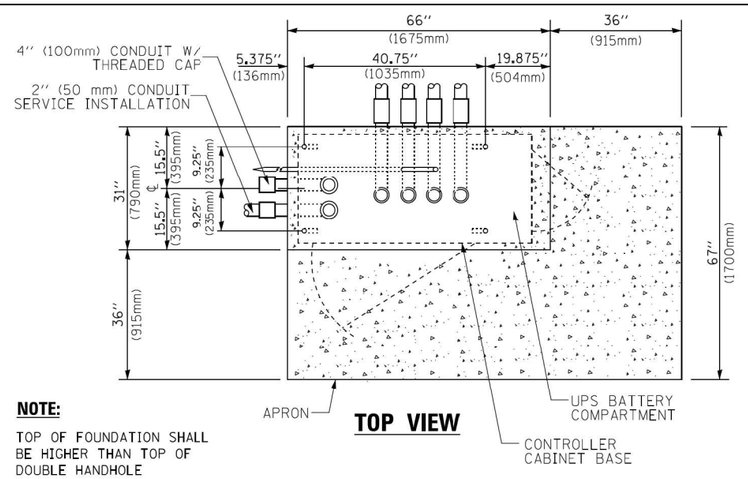


TOP VIEW



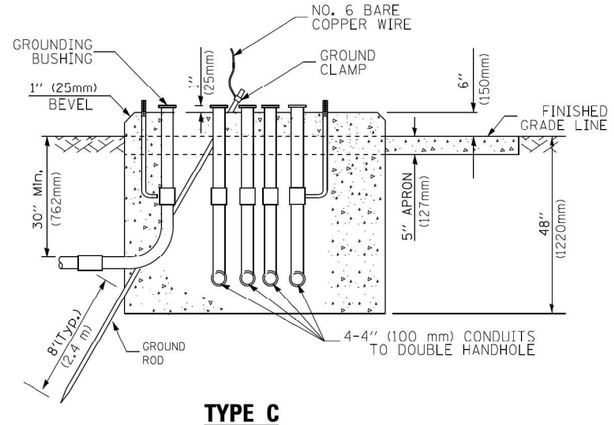
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



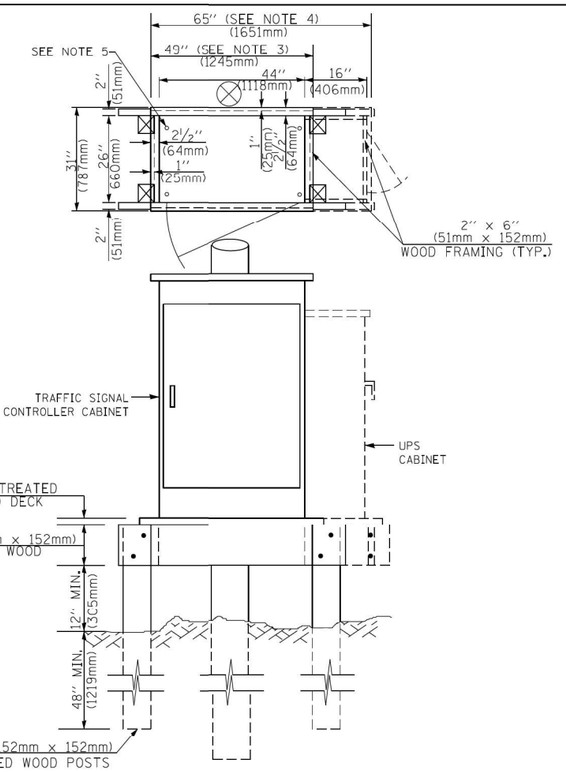
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	51
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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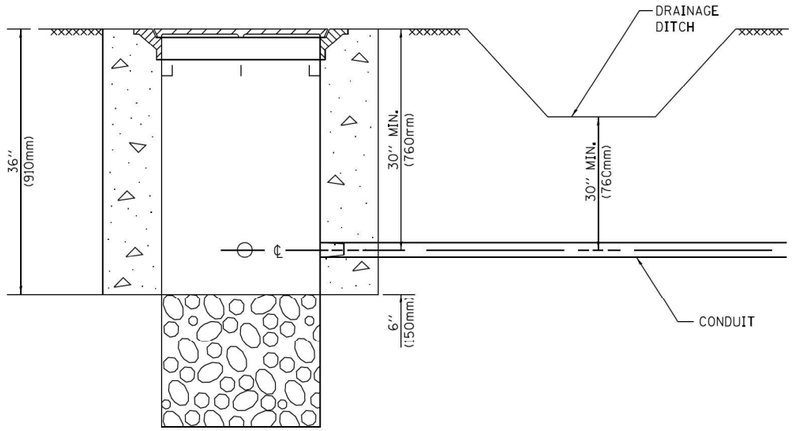
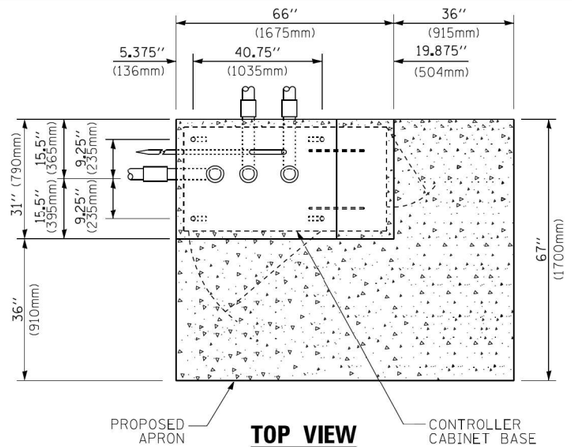


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

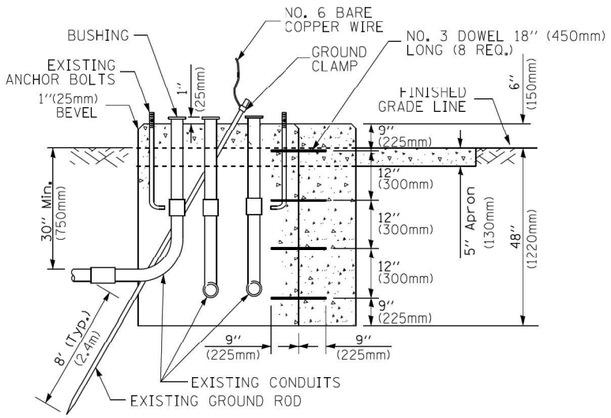
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



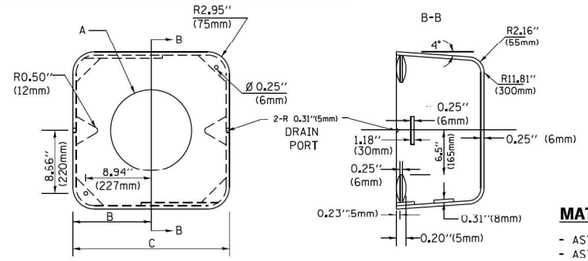
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

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

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

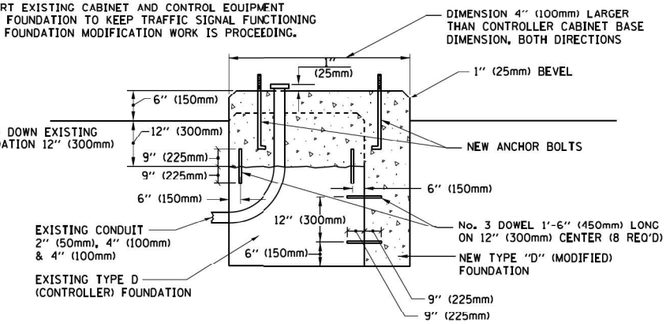
SHROUD

NOTES:

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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION

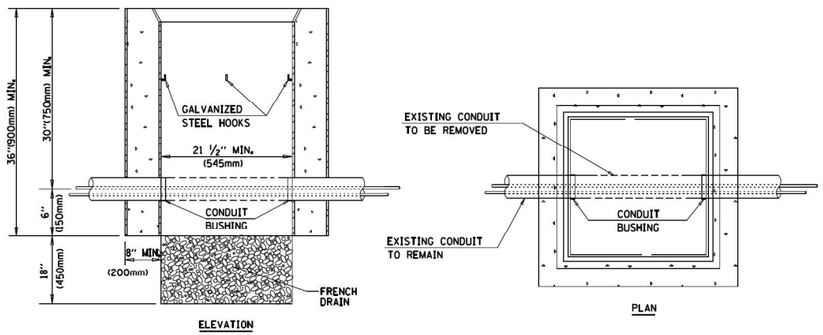
POST CAP MOUNT **MAST ARM MOUNT**

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



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 INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

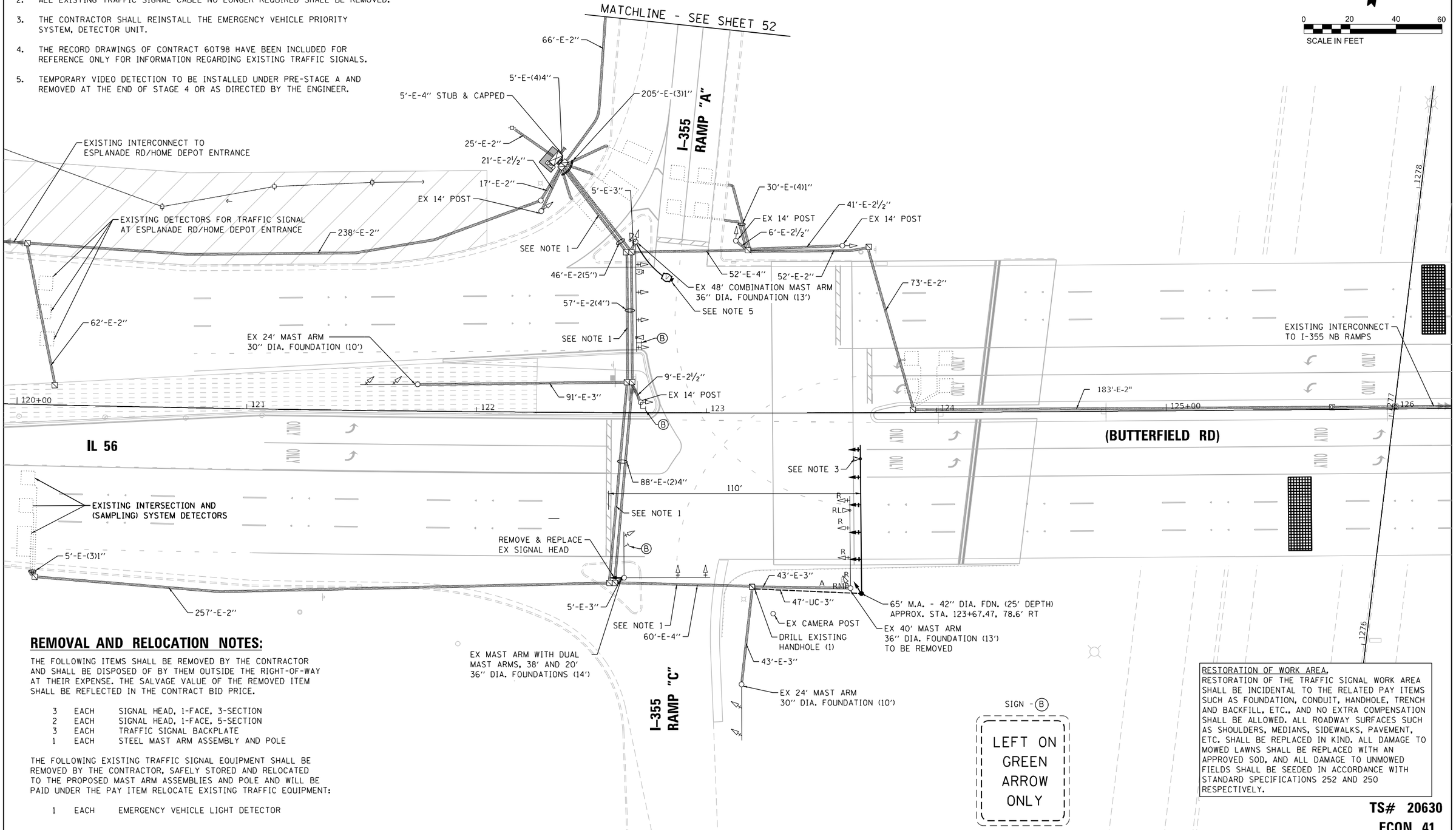
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	52
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONSTRUCTION NOTES:

1. THE EXISTING MAST ARM, TRAFFIC SIGNAL EQUIPMENTS AND MAST ARM FOUNDATION SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. THE CONTRACTOR SHALL REINSTALL THE EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT.
4. THE RECORD DRAWINGS OF CONTRACT 60T98 HAVE BEEN INCLUDED FOR REFERENCE ONLY FOR INFORMATION REGARDING EXISTING TRAFFIC SIGNALS.
5. TEMPORARY VIDEO DETECTION TO BE INSTALLED UNDER PRE-STAGE A AND REMOVED AT THE END OF STAGE 4 OR AS DIRECTED BY THE ENGINEER.



REMOVAL AND RELOCATION NOTES:

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 ITEM SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
3	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLE AND WILL BE PAID UNDER THE PAY ITEM RELOCATE EXISTING TRAFFIC EQUIPMENT:

1	EACH	EMERGENCY VEHICLE LIGHT DETECTOR

RESTORATION OF WORK AREA,
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

TS# 20630

ECON 41

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

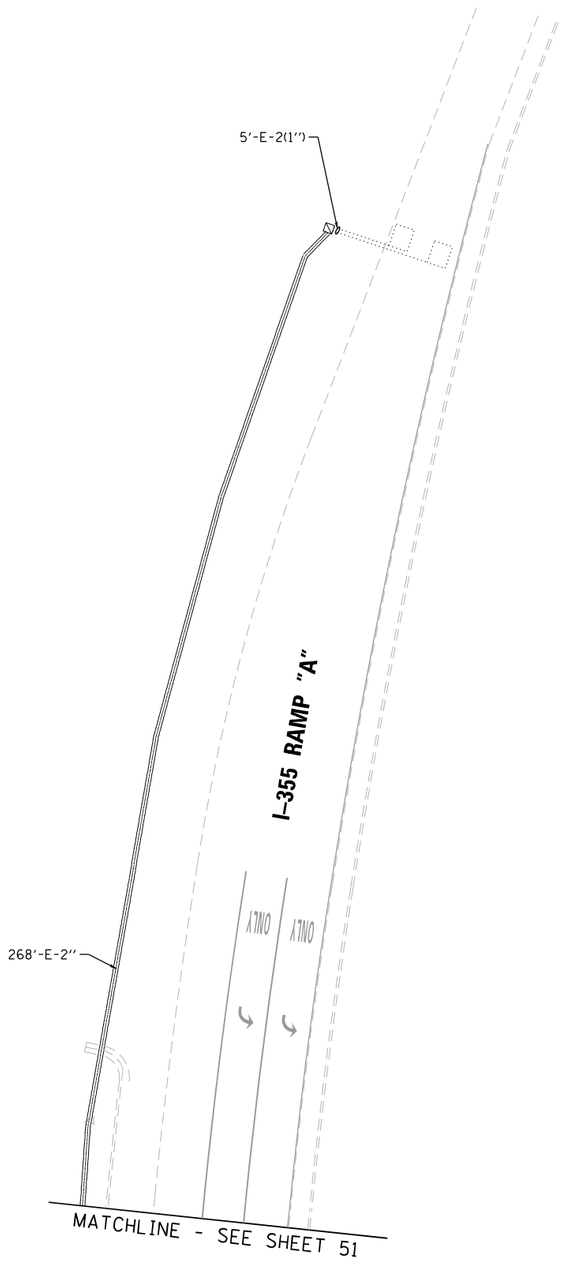
USER NAME = 14nho	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL AND MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. STSSTA6 | TO STA. STSSTA7

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	53
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			



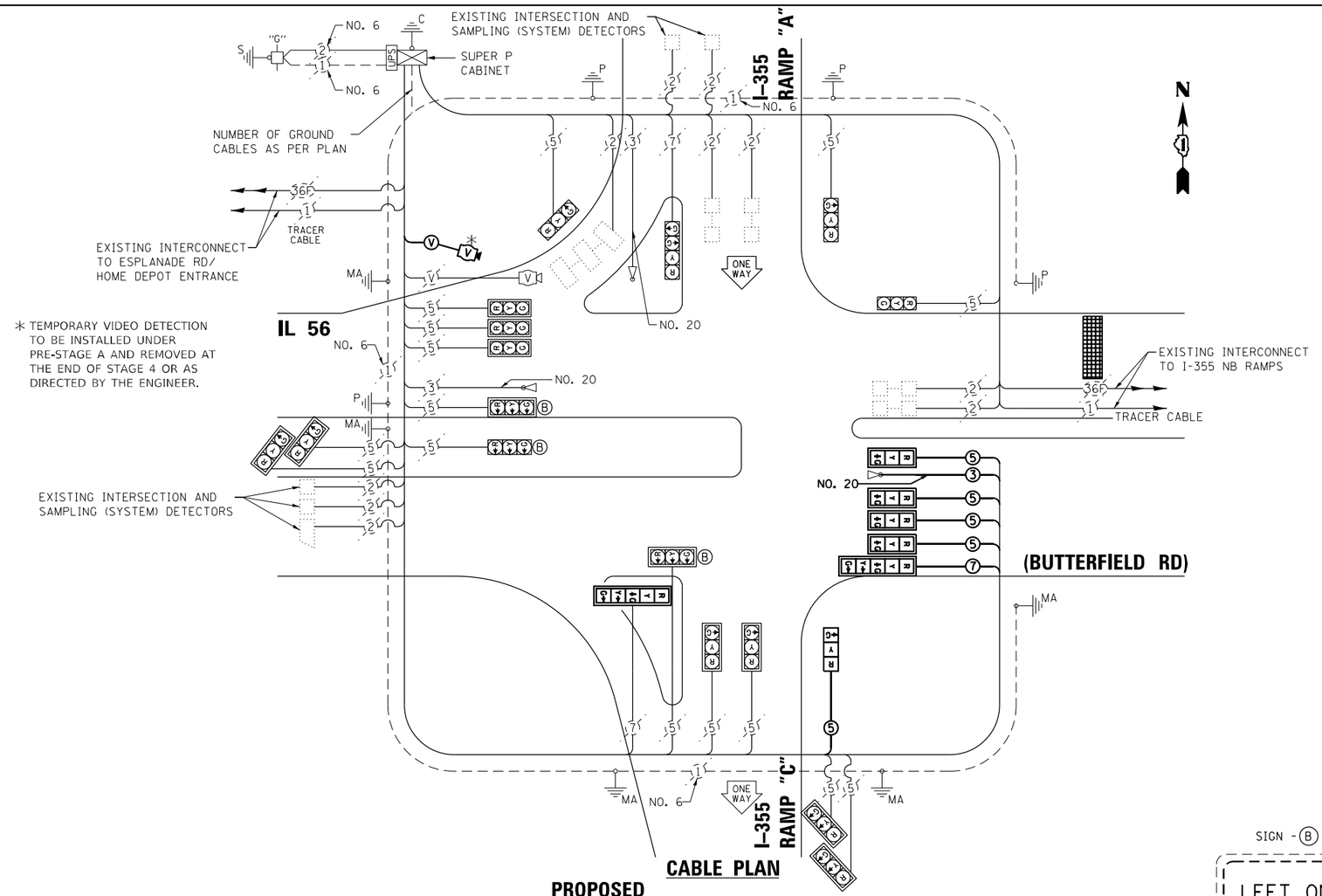
TS# 20630
ECON 41

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - IS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS
		DRAWN - IS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		SCALE: 1"=50' SHEET 2 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	54
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

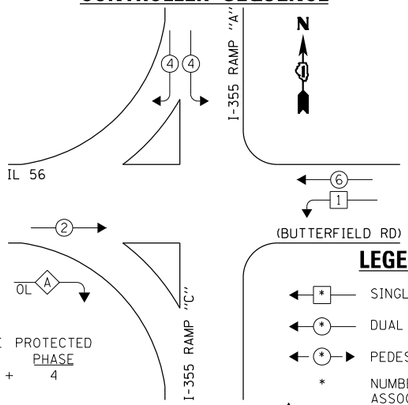
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	47
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2200
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	401
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	55
STEEL MAST ARM ASSEMBLY AND POLE, 65 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2044
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	435
TEMPORARY VIDEO DETECTION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE

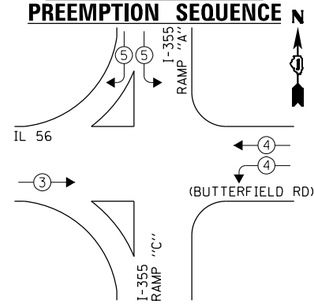
A = 2 + 4

LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

SIGN - (B)

LEFT ON GREEN ARROW ONLY

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	11	50	126.5
(YELLOW)	23	20	5	23
(GREEN)	24	12	45	129.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	558.1

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMED - UNIVERSITY PARK

THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT INSTALLED AT THIS LOCATION IS "ECONOLITE".

TS# 20630

ECON 41

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

SCALE: 1"=50' | SHEET 3 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	55
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION NOTES:

1. THE EXISTING MAST ARM, TRAFFIC SIGNAL EQUIPMENTS AND MAST ARM FOUNDATION SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
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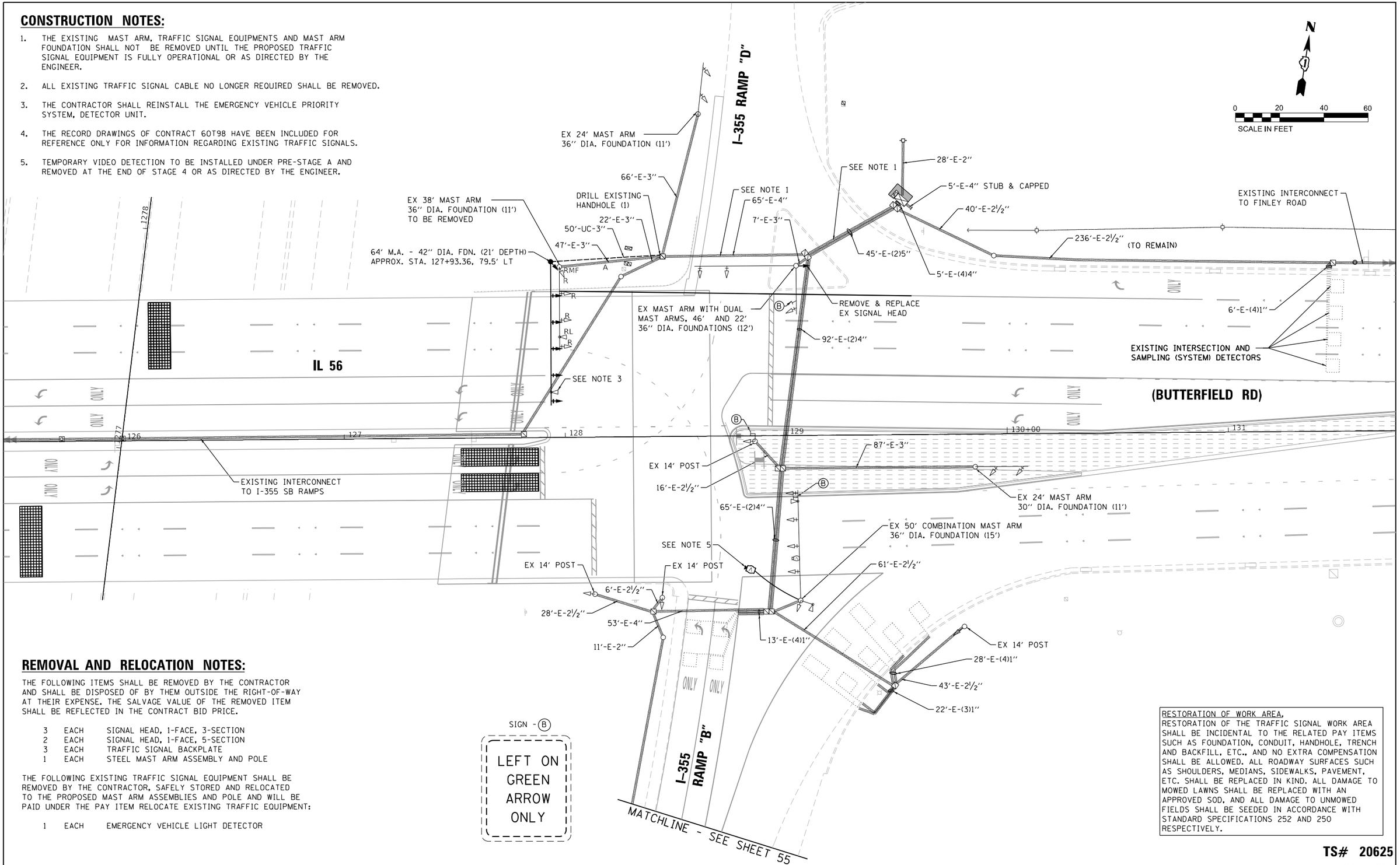
3. THE CONTRACTOR SHALL REINSTALL THE EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT.
4. THE RECORD DRAWINGS OF CONTRACT 60T98 HAVE BEEN INCLUDED FOR REFERENCE ONLY FOR INFORMATION REGARDING EXISTING TRAFFIC SIGNALS.
5. TEMPORARY VIDEO DETECTION TO BE INSTALLED UNDER PRE-STAGE A AND REMOVED AT THE END OF STAGE 4 OR AS DIRECTED BY THE ENGINEER.



REMOVAL AND RELOCATION NOTES:

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 ITEM SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
3	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLE AND WILL BE PAID UNDER THE PAY ITEM RELOCATE EXISTING TRAFFIC EQUIPMENT:

1	EACH	EMERGENCY VEHICLE LIGHT DETECTOR

RESTORATION OF WORK AREA,
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

TS# 20625
ECON 41

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

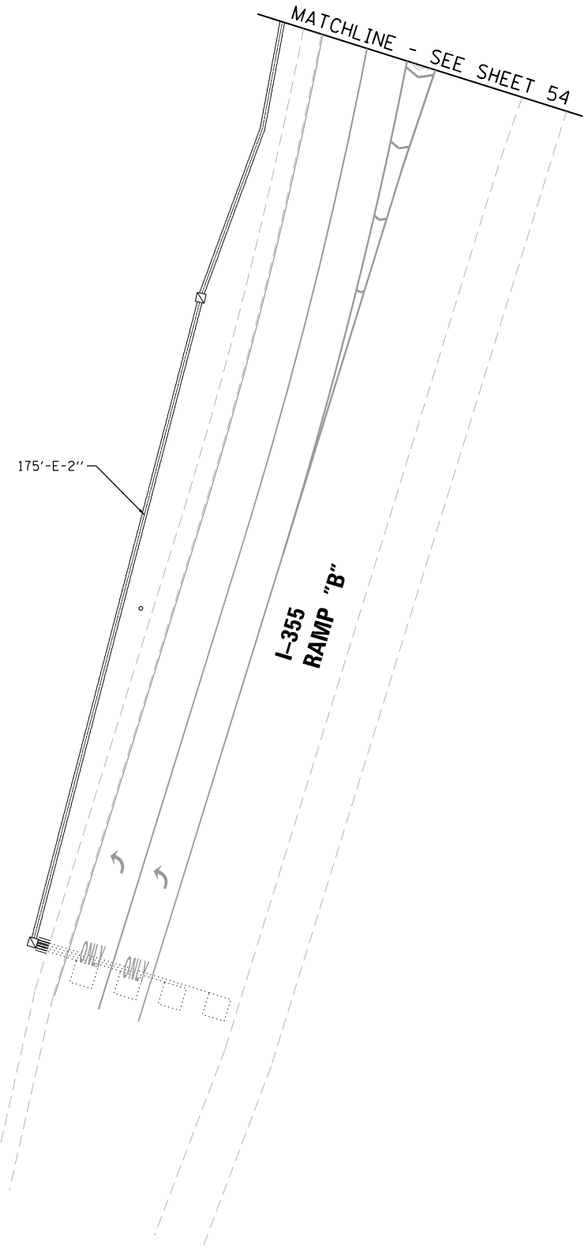
USER NAME = 14nha	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

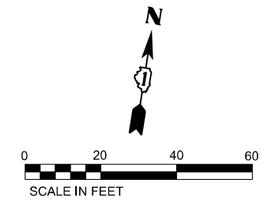
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

SCALE: 1"=50' | SHEET 4 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	56
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	





TS# 20625
ECON 41

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - IS	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

SCALE: 1"=50' | SHEET 5 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	57
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

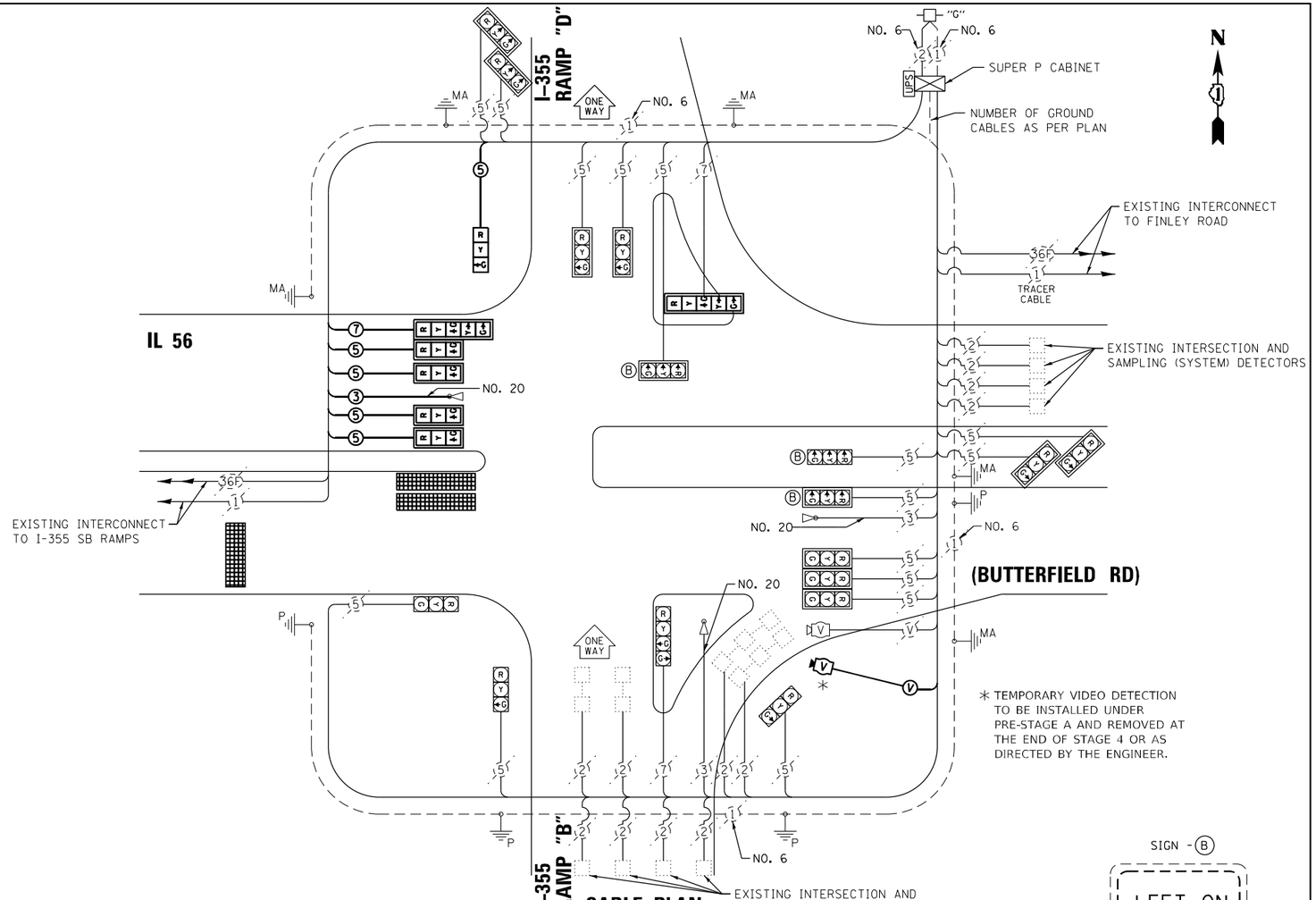
ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	50
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1313
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	231
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	58
STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1212
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	265
TEMPORARY VIDEO DETECTION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	11	50	126.5
(YELLOW)	23	20	5	23
(GREEN)	24	12	45	129.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	558.1

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMED - UNIVERSITY PARK

THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT INSTALLED AT THIS LOCATION IS "ECONOLITE".

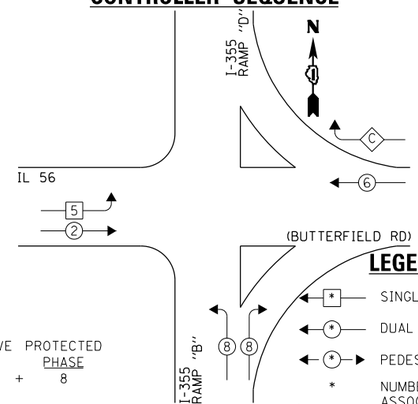


PROPOSED I-355 RAMP "B" CABLE PLAN

SIGN - (B)

LEFT ON GREEN ARROW ONLY

PROPOSED CONTROLLER SEQUENCE



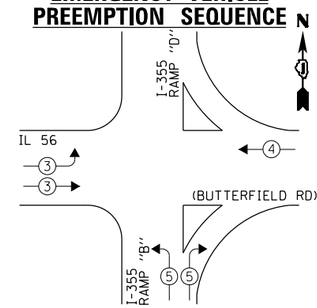
OVERLAP LETTER C = PERMISSIVE PHASE 6 + PROTECTED PHASE 8

LEGEND:

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

PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

TS# 20625
ECON 41

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - IS	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

SCALE: 1"=50' | SHEET 6 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	58
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

08-03-13 LETTING ITEM 013

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR REFERENCE ONLY

DESIGN DESIGNATION

IL 56 (BUTTERFIELD ROAD) – OTHER PRINCIPAL ARTERIAL
ADT = 33,700 – 50,800
POSTED SPEED LIMIT = 45 MPH

I–355 – INTERSTATE
ADT = 81,200 – 121,500
POSTED SPEED LIMIT = 55 MPH

PROJECT IS LOCATED IN THE VILLAGE OF DOWNERS GROVE

100' 10' 200' 20' 300' 30' — 1"= 100' 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

1–800–892–0123 OR 811

DISTRICT 1 - TRAFFIC SIGNAL DESIGN - SUDUD MAHMOUD (847) 705-4420

CONTRACT NO. 60T98

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

IL 56 (BUTTERFIELD ROAD) / FAP 365
AT I–355 (NB & SB RAMPS)
SECTION (56R–2) TS
PROJECT: HSIP-0365(015)
TRAFFIC SIGNAL MODERNIZATION
DuPAGE COUNTY
JOB NO.: C–91–429–12

IL 56 AT I–355
(NB & SB RAMPS)

LOCATION MAP
(Not to Scale)

D–91–429–12

LOCATION OF SECTION INDICATED THUS: –■–

SIGNED: Kevin L. Belgrave
KEVIN L. BELGRAVE, EXP. 11/30/2013

KEVIN L. BELGRAVE 062-051750 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

DATE: MAY 8, 2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 10 20 13
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
June 28 20 13
John D. Baranzelli P.E. /bs
acting ENGINEER OF DESIGN AND ENVIRONMENT
June 28 20 13
Omer Osman P.E. /bs
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GHA GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive ▪ Vernon Hills, IL 60061
Consulting Engineers & Surveyors
847–478–9700
FAX:847–478–9701

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	1
	ILLINOIS	CONTRACT NO. 60T98		

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Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 1 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	59
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

INDEX OF SHEETS

GENERAL NOTES

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012; MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION; THE VILLAGE OF DOWNERS GROVE; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLEY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION IS BASED ON RECORD INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC, AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTH.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES, AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, AND IDOT.

THE VILLAGE OF DOWNERS GROVE REQUESTS THE EXISTING EMERGENCY VEHICLE PREEMPTION SYSTEM BE REMOVED FROM THE EXISTING TRAFFIC SIGNAL INSTALLATION AND RELOCATED TO THE PERMANENT TRAFFIC SIGNAL MODERNIZATION.

IDOT STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH OF A FOOT
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS 2L, 2W, >15' AWAY
701006-04	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-03	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701606-08	URBAN LANE CLOSURE MULTILANE 2W, WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-05	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
720006-03	SIGN PANEL ERECTION DETAIL
780001-03	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLE
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL 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
886001-01	DETECTOR LOOP INSTALLATIONS

FOR REFERENCE ONLY

FILE NAME = 62T98-02-Index-Notes.dgn	USER NAME = gwatten	DESIGNED - JRD	REVISED -
		DRAWN - PJS/JPW	REVISED -
	PLOT SCALE = 1ii	CHECKED - KLB	REVISED -
MODEL NAME =	PLOT DATE = 5/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS /GENERAL NOTES /IDOT STANDARDS

SCALE: NONE | SHEET ___ OF ___ SHEETS | STA. _____ | TO STA. _____

GHA #4085.885

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	2
		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 2 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	60
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

URBAN

SUMMARY OF QUANTITIES

		LOCATION OF WORK		IL 56 (BUTTERFIELD RD) AT AT I-355 SB RAMPS		IL 56 (BUTTERFIELD RD) AT AT I-355 NB RAMPS		INTERCONNECT
		TYPE		TRAFFIC SIGNALS		TRAFFIC SIGNALS		INTERCONNECT
		CODE		0021				
CODE NO.	ITEM	UNIT	TOTAL	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	50		50		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3.00	1.00		1.00		1.00
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.00	0.5		0.5		
67100100	MOBILIZATION	L SUM	1.00	0.40		0.40		0.20
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1.00	1.00				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.00	0.40		0.40		0.20
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.00	0.40		0.40		0.20
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00	0.40		0.40		0.20
72000100	SIGN PANEL - TYPE 1	SQ FT	62.50	22.50		40.00		
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2	1		1		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	467	428		39		
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	271	77		194		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	428	187		241		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	876	419		457		
81028250	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	182	92		90		
81400100	HANDHOLE	EACH	5	2		3		
81400300	DOUBLE HANDHOLE	EACH	8	4		4		

FOR REFERENCE ONLY

* Specialty Items

FILE NAME = 60T98-03-SQQ.dgn	USER NAME = jwolfe	DESIGNED - JRO	REVISED -
		DRAWN - PJS	REVISED -
#MODELNAME#	PLOT SCALE = 1:1	CHECKED - KLB	REVISED -
	PLOT DATE = 5/8/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 1 OF 5 SHEETS | STA. _____ | TO STA. _____

Rev.

GHA #4085.885

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(SER-2) TS	DUPAGE	33	3
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

URBAN

SUMMARY OF QUANTITIES		LOCATION OF WORK TYPE CODE		IL 56 (BUTTERFIELD RD) AT AT I-355 SB RAMPS TRAFFIC SIGNALS		IL 56 (BUTTERFIELD RD) AT AT I-355 NB RAMPS TRAFFIC SIGNALS 0021		INTERCONNECT INTERCONNECT
CODE NO.	ITEM	UNIT	TOTAL	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2					2
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	1		1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,240					2,240
~~87301235~~	~~ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C~~	~~FOOT~~	~~1,580~~	~~675~~		~~905~~		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	9,907	4,668		5,239		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,440	803		637		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	8,520	3,224		5,296		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	71	34		37		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,612	746		866		
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	8	4		4		
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	4	2		2		
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1			1		
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1	1				
87702220	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 38 FT.	EACH	1	1				

13

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CHA #4085.885

FILE NAME = 60T98-04-500.dgn	USER NAME = jwolfe	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - JPW	REVISED -			365	(56R-2) TS	DuPAGE	33 / 4
	PLOT SCALE = 1:1	CHECKED - KLB	REVISED -					CONTRACT NO. 60T98	
#MODELNAME#	PLOT DATE = 5/8/2013	DATE -	REVISED -		SCALE: NONE / SHEET 2 OF 5 SHEETS / STA. / TO STA.		ILLINOIS FED. AID PROJECT		

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 TRAFFIC SIGNAL PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NH	REVISED -			365	2020-179-BR	DUPAGE	111 / 62
	PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -					CONTRACT NO. 62M34	
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		SCALE: N.T.S. / SHEET 4 OF 33 SHEETS / STA. / TO STA.		ILLINOIS FED. AID PROJECT		

URBAN

SUMMARY OF QUANTITIES		LOCATION OF WORK TYPE CODE		IL 56 (BUTTERFIELD RD) AT AT I-355 SB RAMPS TRAFFIC SIGNALS		IL 56 (BUTTERFIELD RD) AT AT I-355 NB RAMPS TRAFFIC SIGNALS 0021		INTERCONNECT INTERCONNECT
CODE NO.	ITEM	UNIT	TOTAL	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE
87702282	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 46 FT.	EACH	1			1		
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1				
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1			1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40	20		20		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4		4		
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50	30		20		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	67	27		40		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	26	13		13		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10	5		5		
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	1		1		
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	1		1		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	1		1		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	28	14		14		
88500100	INDUCTIVE LOOP DETECTOR	EACH	22	10		12		

FOR REFERENCE ONLY

GHA #4085.885

FILE NAME = 60T98-05-500.dgn	USER NAME = jwolfe	DESIGNED - JRD	REVISED -
		DRAWN - JPW	REVISED -
#MODELNAME#	PLOT SCALE = 1:1	CHECKED - KLB	REVISED -
	PLOT DATE = 5/8/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	5
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

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Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 5 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	63
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

URBAN

SUMMARY OF QUANTITIES		LOCATION OF WORK TYPE CODE		IL 56 (BUTTERFIELD RD) AT AT I-355 SB RAMPS TRAFFIC SIGNALS		IL 56 (BUTTERFIELD RD) AT AT I-355 NB RAMPS TRAFFIC SIGNALS		INTERCONNECT INTERCONNECT
					0021			
CODE NO.	ITEM	UNIT	TOTAL	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE
88600100	DETECTOR LOOP, TYPE I	FOOT	1,498	660		838		
~~88700200~~	~~LIGHT DETECTOR~~	~~EACH~~	~~6~~		~~3~~		~~3~~	
~~88700300~~	~~LIGHT DETECTOR AMPLIFIER~~	~~EACH~~	~~2~~		~~1~~		~~1~~	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1		1		
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	6		3		3	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,730	1,916		2,504		3,310
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2		1		1	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1		1		
89502380	REMOVE EXISTING HANDHOLE	EACH	13	6		6		1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	18	10		8		
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,580		675		905	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,577	513		671		393
X0327200	MICROWAVE VEHICLE SENSOR (SMARTSENSOR ADVANCE)	EACH	2	1		1		
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1		1		
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	1		1		
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,240					2,240

FOR REFERENCE ONLY

Rev.

GHA #4085.885

FILE NAME = 60T98-06-SGD.dgn	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
		DRAWN - JPW	REVISED -		SCALE: NONE | SHEET 4 OF 5 SHEETS | STA. _____ TO STA. _____
	PLOT SCALE = 1:1	CHECKED - KLB	REVISED -		
#MODELNAME#	PLOT DATE = 5/11/2021	DATE - _____	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(SGR-2) TS	DuPAGE	33	6
		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 TRAFFIC SIGNAL PLAN
		DRAWN - NH	REVISED -		SCALE: N.T.S. | SHEET 6 OF 33 SHEETS | STA. TO STA.
	PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	64
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES		LOCATION OF WORK		IL 56 (BUTTERFIELD RD) AT AT I-355 SB RAMPS		IL 56 (BUTTERFIELD RD) AT AT I-355 NB RAMPS		INTERCONNECT
		TYPE		TRAFFIC SIGNALS		TRAFFIC SIGNALS		INTERCONNECT
		CODE		0021				
CODE NO.	ITEM	UNIT	TOTAL	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE	100% VILLAGE OF DOWNERS GROVE	90% FED 10% STATE
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.80	51.40		51.40		
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2					2
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1		1		
Δ Z0010614	CLEAN EXISTING MANHOLE OR HANDHOLE	EACH	12	7		4		1

Δ (100% STATE) NP

FOR REFERENCE ONLY

GHA #4085.885

FILE NAME = 60T98-07-S00.dgn	USER NAME = jwolfe	DESIGNED - JRD	REVISED -
		DRAWN - JPW	REVISED -
#MODELNAME#	PLOT SCALE = 1:1	CHECKED - KLB	REVISED -
	PLOT DATE = 5/8/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	7
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

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Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 7 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	65
		CONTRACT NO. 62M34		
	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.

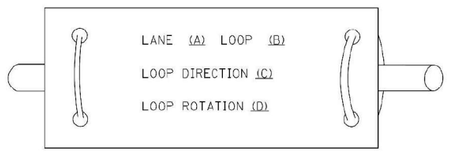
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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



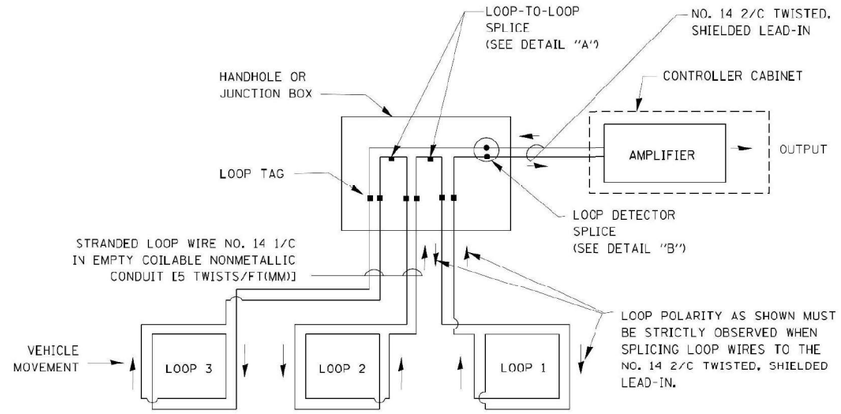
FOR REFERENCE ONLY

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.

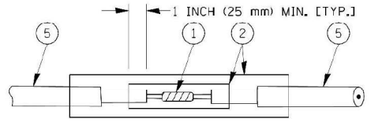
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

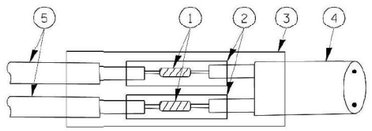


DETECTOR LOOP WIRING SCHEMATIC

- 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.

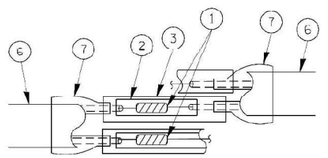


DETAIL "A"
LOOP-TO-LOOP SPLICE



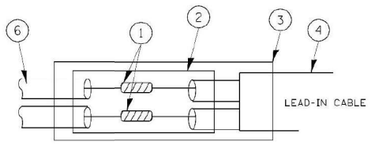
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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 = 60T98-08-D1 Standard TS Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 4/9/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	8
	TS-05	CONTRACT NO. 60T98		
	ILLINOIS	FED. AID PROJECT		

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Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

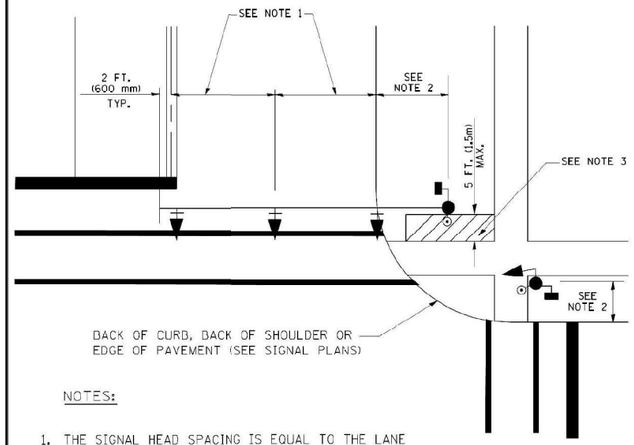
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 8 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	66
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

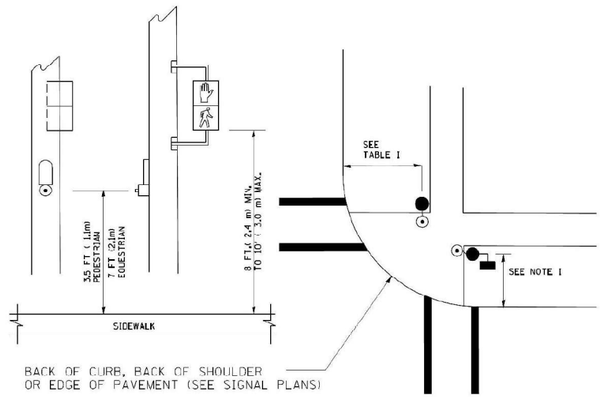
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

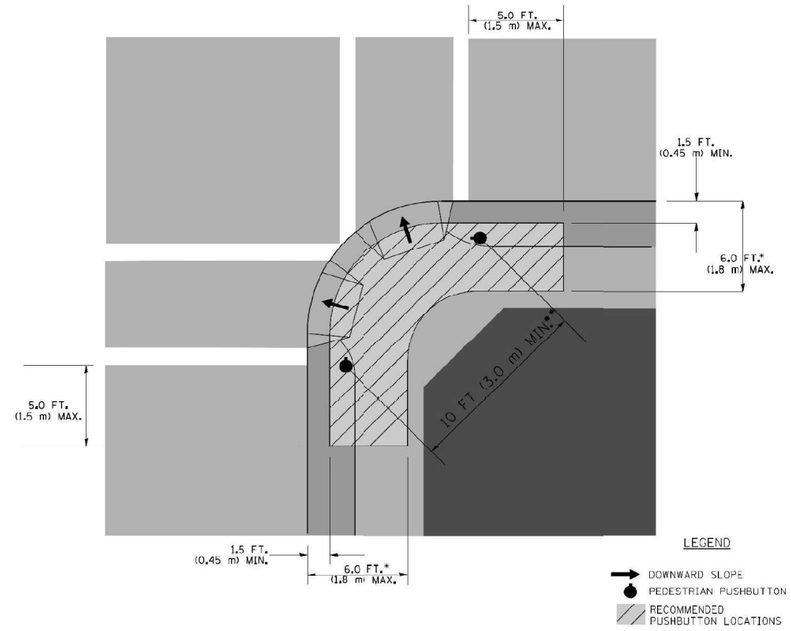
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

FOR REFERENCE ONLY

FILE NAME = 60T98-09-01 Standard TS Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	9
	TS-05	CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

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Westmont, Illinois

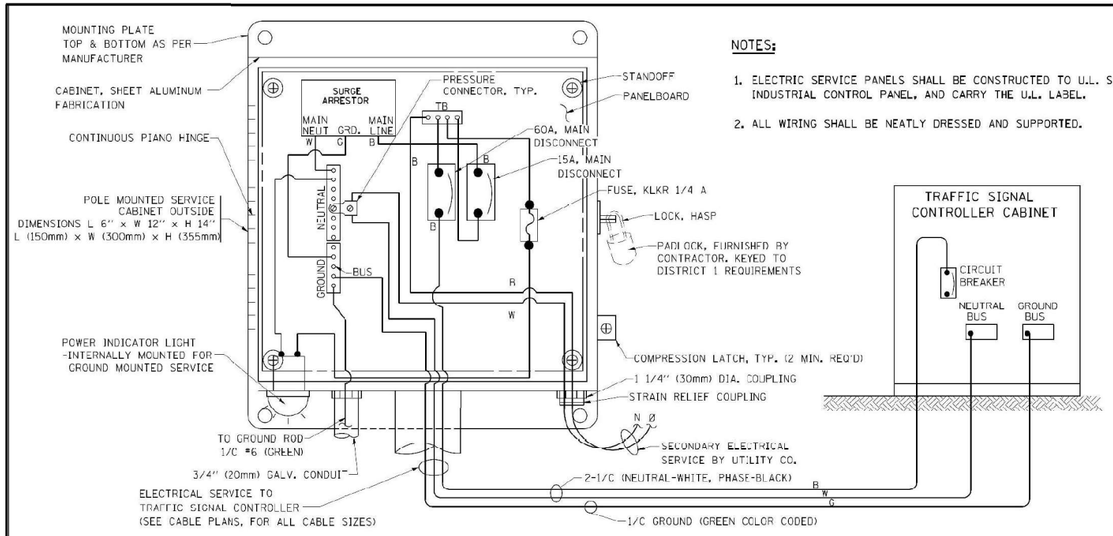
USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 9 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	67
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



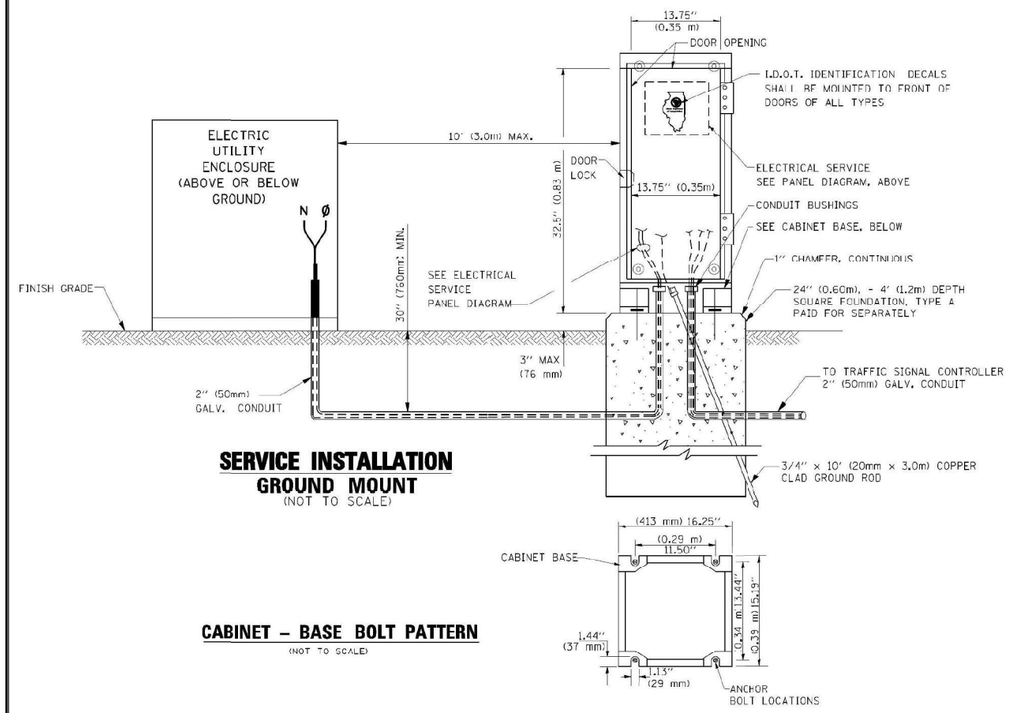
NOTES:

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)

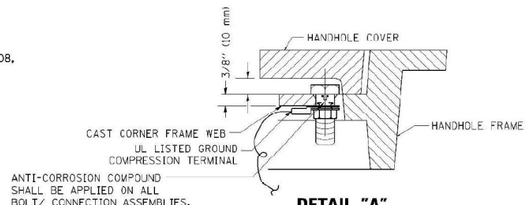


SERVICE INSTALLATION GROUND MOUNT

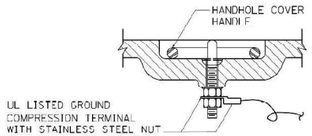
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

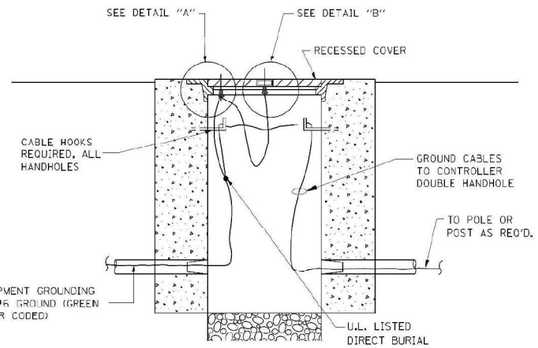
(NOT TO SCALE)



DETAIL "A"

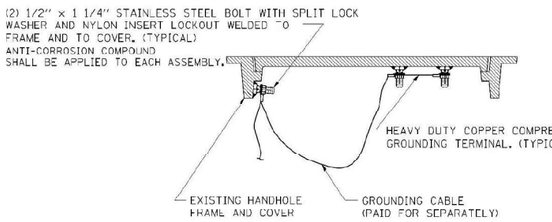


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

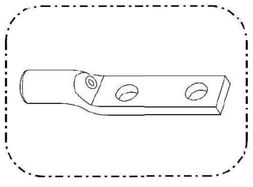
(NOT TO SCALE)

FOR REFERENCE ONLY

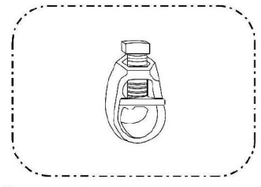
NOTES:

GROUNDING SYSTEM

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



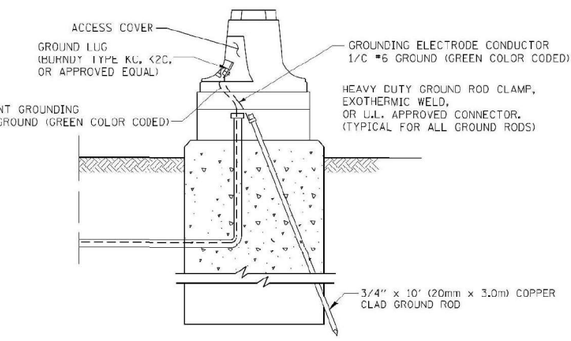
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

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



MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

FILE NAME = 60T98-10-01 Standard TS Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	10
	TS-05	CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

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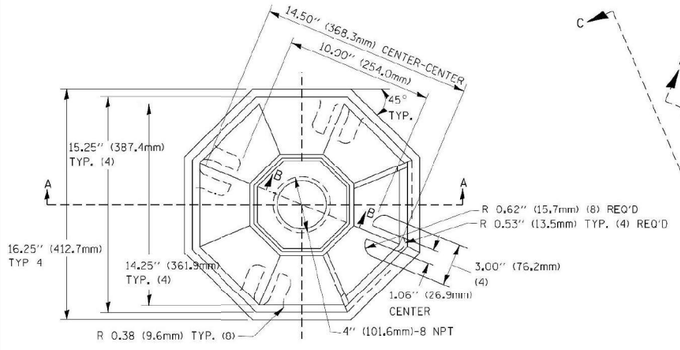
USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

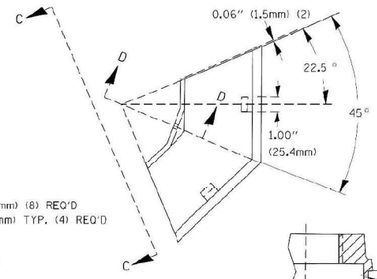
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

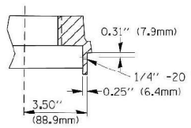
SCALE: N.T.S. | SHEET 10 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	68
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

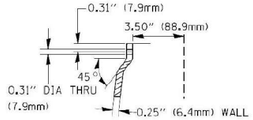


TOP VIEW

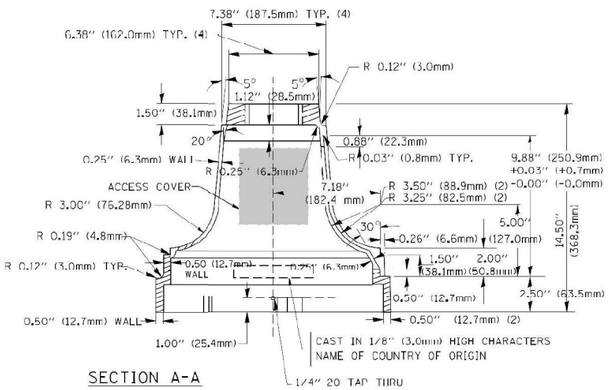




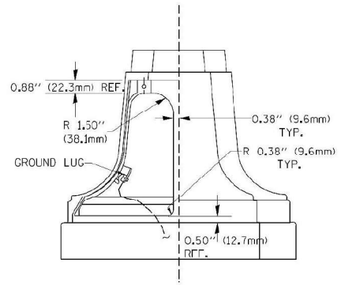
SECTION B-B



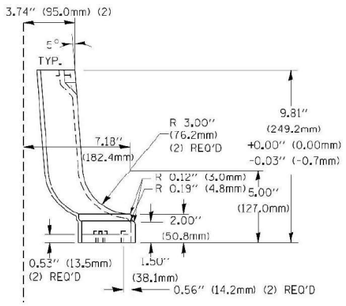
SECTION D-D



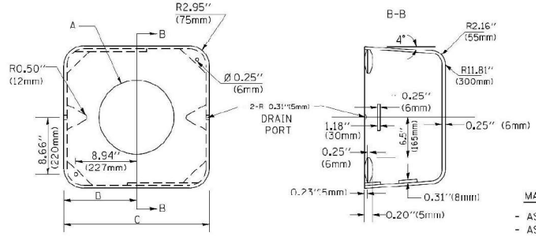
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



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

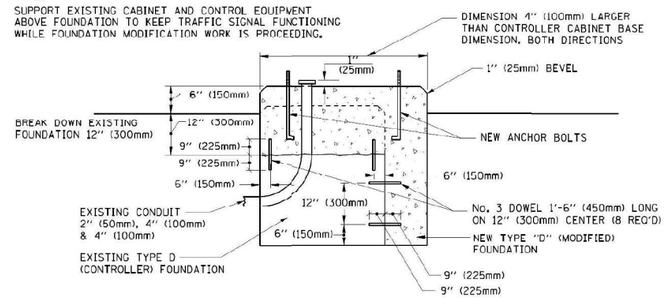
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7' (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7' (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7' (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7' (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

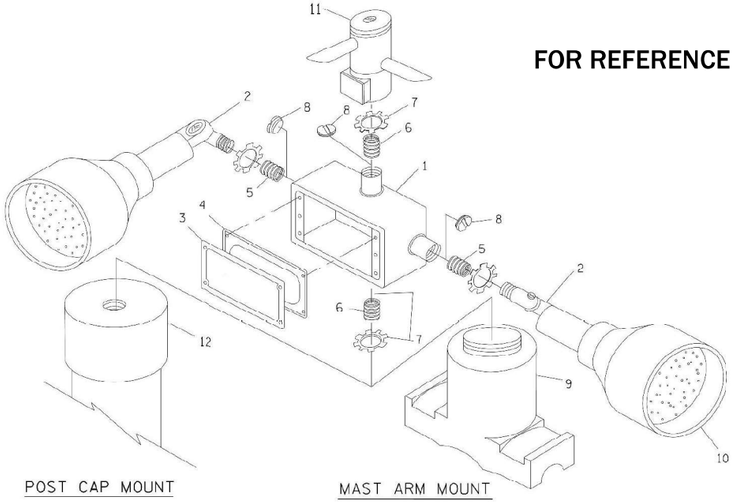
NOTES:

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

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



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

MAST ARM MOUNT

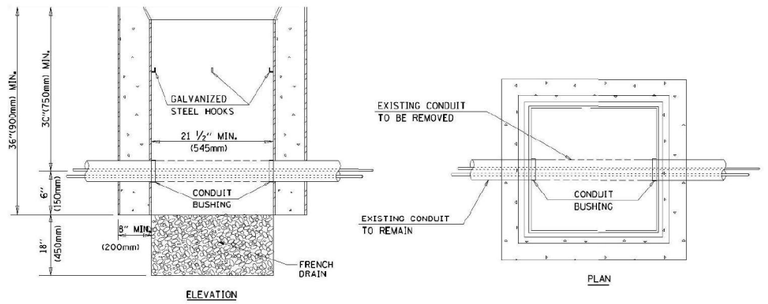
FOR REFERENCE ONLY

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

NOTES:

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

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



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 = 60T98-11-01 Standard TS Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	11
	TS-05	CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

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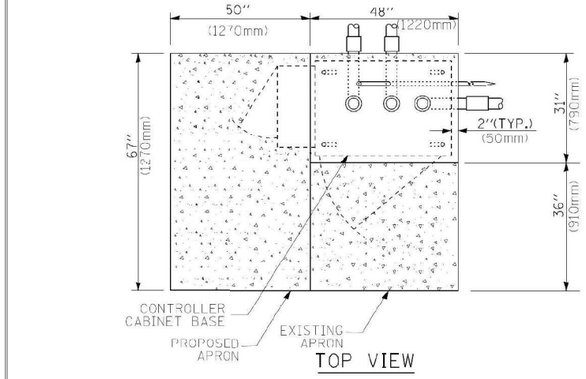
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

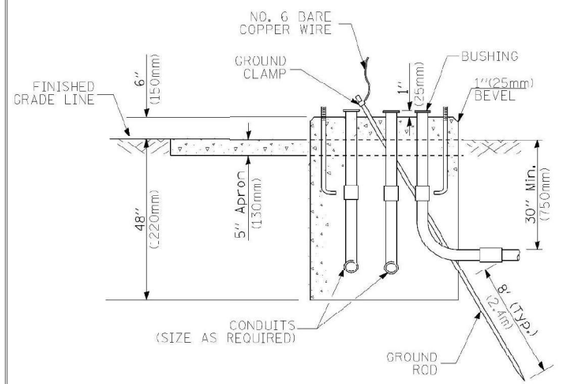
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 11 OF 33 SHEETS | STA. | TO STA.

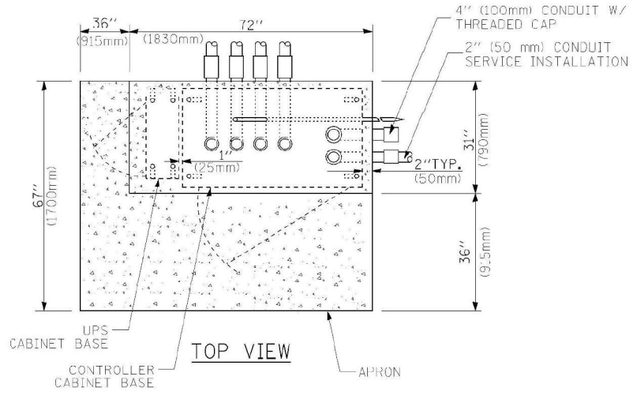
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	69
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



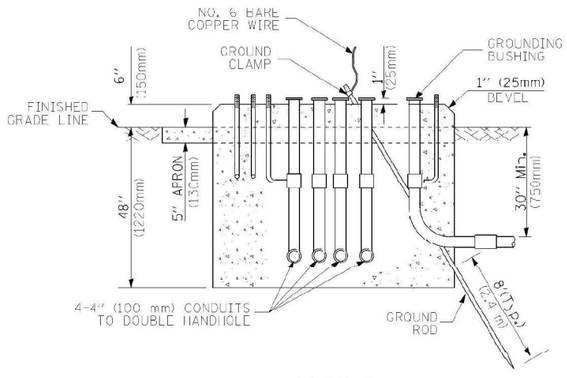
TOP VIEW



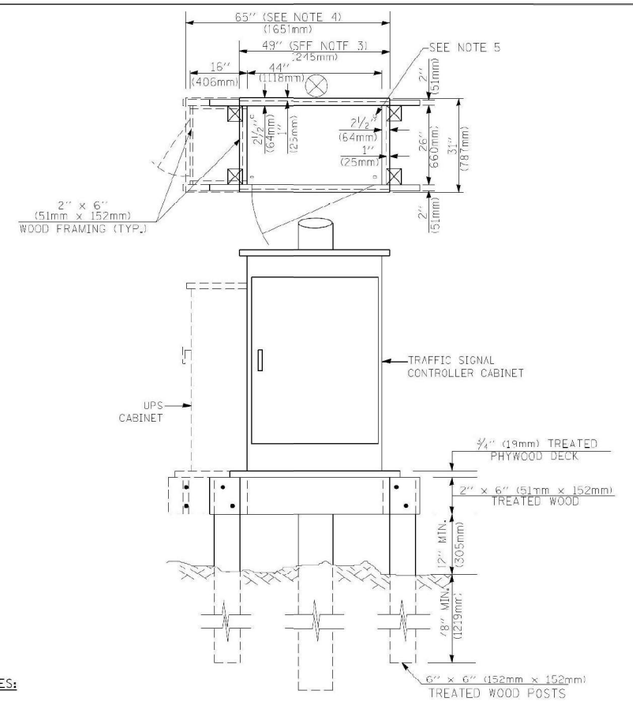
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

FOR REFERENCE ONLY

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = jwoulfe	DESIGNED -	REVISED -
60T98-12-01 Standard TS Details.dgn		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	12
	TS-05	CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

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USER NAME = 14nha	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 12 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	70
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

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

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

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

RAILROAD SYMBOLS

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

FOR REFERENCE ONLY

FILE NAME = 60T98-13-01 Standard TS Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	13
	TS-05	CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

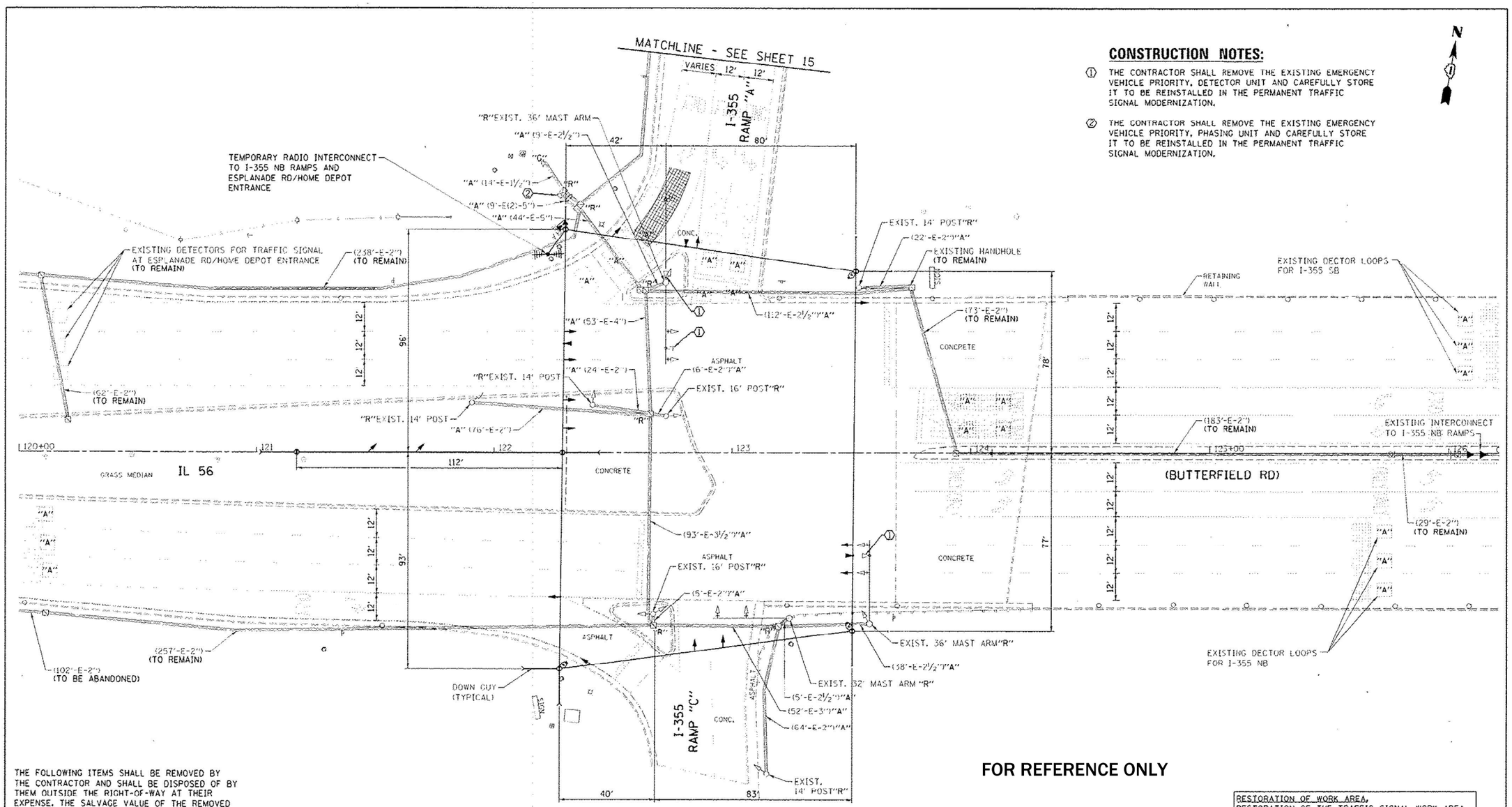
USER NAME = 14nha	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 13 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	71
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			



CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY, DETECTOR UNIT AND CAREFULLY STORE IT TO BE REINSTALLED IN THE PERMANENT TRAFFIC SIGNAL MODERNIZATION.

② THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY, PHASING UNIT AND CAREFULLY STORE IT TO BE REINSTALLED IN THE PERMANENT TRAFFIC SIGNAL MODERNIZATION.

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

1 EACH CONTROLLER AND CABINET (COMPLETE)
11 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
1 EACH SIGNAL HEAD, 2-FACE, 1 3-SECTION, 1 4-SECTION
6 EACH TRAFFIC SIGNAL BACKPLATE
3 EACH STEEL MAST ARM ASSEMBLY AND POLE
6 EACH TRAFFIC SIGNAL POST
1 EACH SERVICE INSTALLATION

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

FOR REFERENCE ONLY

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

CHA #4085.885

FILE NAME = C:\DT98-14-IL56\Ramp TS-Temp.dgn	USER NAME = gabston	DESIGNED - JRO	REVISED -
		DRAWN - PJS/JPW	REVISED -
$MODELNAME$	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
	PLOT DATE = 5/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DUPAGE	33	14
		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 14 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	72
		CONTRACT NO. 62M34		
		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(S) SHALL BE FURNISHED BY THE CONTRACTOR.

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

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 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 CONTROLLER EQUIPMENT.•

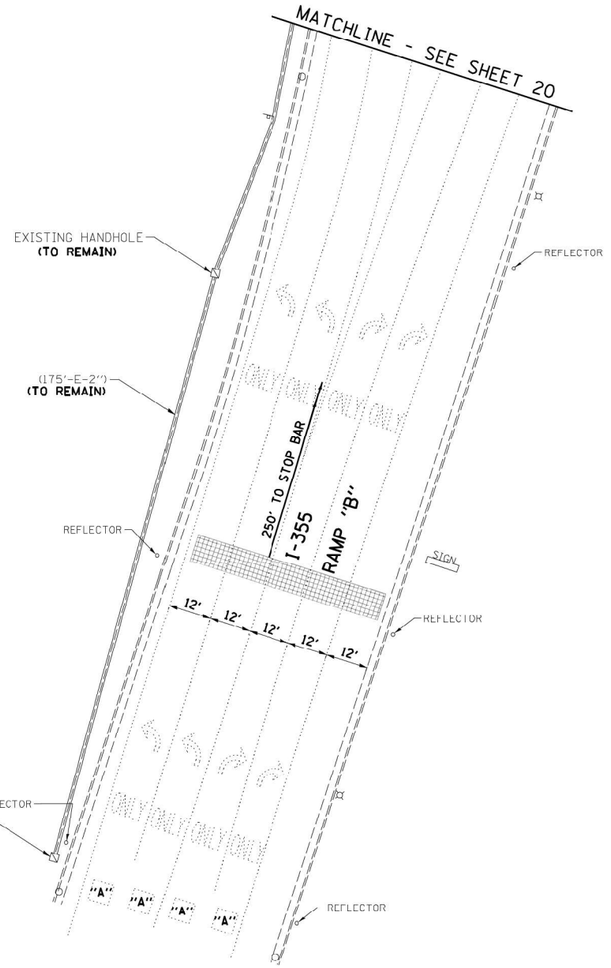
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

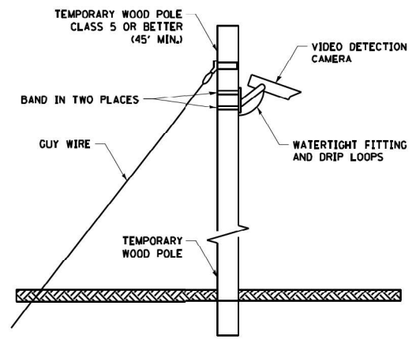
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION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

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

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF THE DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

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





TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

N

FOR REFERENCE ONLY

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

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

GHA #4085.885

FILE NAME = 60T98-21-IL56@East Ramp-TS-Temp.dgn	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
$MODELNAME$	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
	PLOT DATE = 5/1/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	21
		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

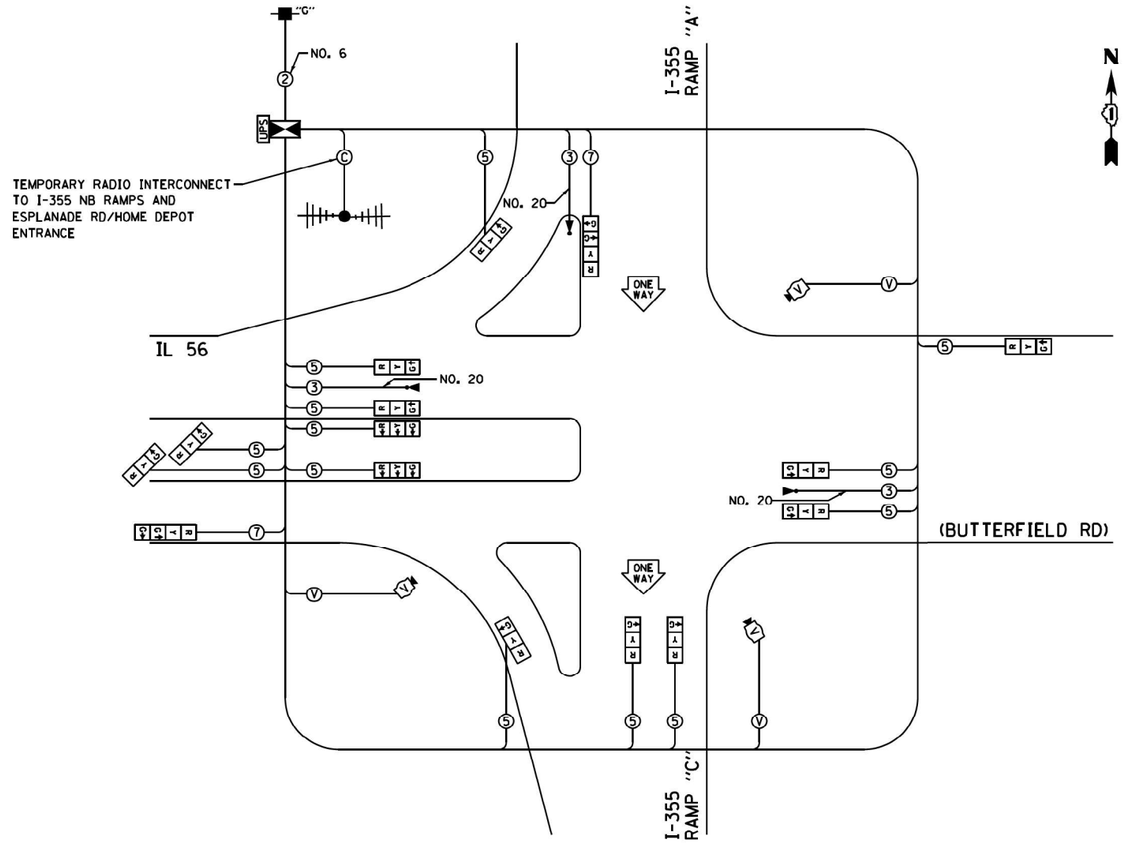
USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

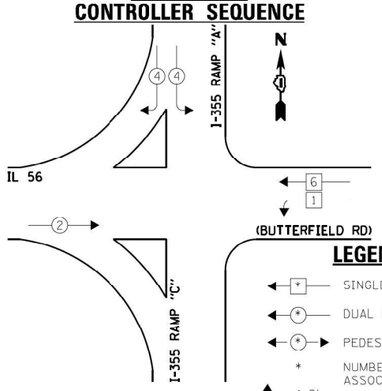
SCALE: N.T.S. | SHEET 15 OF 33 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	73
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

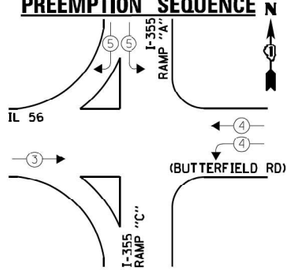


CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	↱	↲

TEMPORARY PHASE DESIGNATION DIAGRAM

FOR REFERENCE ONLY

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	15	135	17	0.50	127.5
SIGNAL (YELLOW)	15	135	25	0.25	93.75
SIGNAL (GREEN)	17	135	15	0.25	63.75
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
				TOTAL =	410.0

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMED - UNIVERSITY PARK

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

GHA *4085.885

FILE NAME = 60T98-16-IL56@West Ramp-Temp_Cable.dgn	USER NAME = jwuulfe	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
$MODELNAME$	PLOT DATE = 4/26/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY VEHICLE PREEMPTION SEQUENCE
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

SCALE: NONE | SHEET ___ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	16
		CONTRACT NO. 60T98		
		ILLINOIS	FED. AID PROJECT	

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 16 OF 33 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	74
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL LOCATE AND INTERCEPT THE COUPLING OF THE EXISTING CONDUIT AND SPLICE A NEW GALVANIZED STEEL CONDUIT OF THE SIZE SHOWN. THE WORK SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
2. THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT AND INSTALL A NEW DOUBLE HANDHOLE.
3. CLEAN THE EXISTING HANDHOLE TO REMAIN.
4. THE CONTRACTOR SHALL REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT.
5. THE CONTRACTOR SHALL REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT IN THE NEW CONTROLLER CABINET.

N

MATCHLINE - SEE SHEET 18

VARIES 12' 12'

I-355 RAMP "A"

REFLECTOR

66'-U.C. 2"

5'-U.C. 4" STUB & CAPPED "G"

5'-U.C. (4)4"

205'-U.C. (3)1"C.N.C.

25'-U.C. 2"

21'-U.C. 2½"

17'-U.C. 2"

EXISTING INTERCONNECT TO ESPLANADE RD/HOME DEPOT ENTRANCE

EXISTING DETECTORS FOR TRAFFIC SIGNAL AT ESPLANADE RD/HOME DEPOT ENTRANCE (TO REMAIN)

(238'-E-2") (TO REMAIN)

14' POST

CONC.

30'-U.C. (4)1"C.N.C.

41'-U.C. 2½"

14' POST

DRILL EXISTING HANDHOLE (1)

6'-U.C. 2½"

RETAINING WALL

52'-U.C. 4"

52'-U.C. 2"

(73'-E-2") (TO REMAIN)

46'-U.C. (2)5"

57'-U.C. (2)4"

5'-U.C. 3"

48' COMBINATION MAST ARM 36" DIA. FOUNDATION (13')

37'

ASPHALT

CONCRETE

250' TO STOP BAR

PROPOSED INTERCONNECT TO I-355 NB RAMPS

(62'-E-2") (TO REMAIN)

91'-U.C. 3"

24" MAST ARM 30" DIA. FOUNDATION (10')

9'-U.C. 2½"

14' POST

(183'-E-2") (TO REMAIN)

120+00 121 122 123 124 125+00 126

GRASS MEDIAN

IL 56

CONCRETE 115'

(BUTTERFIELD RD)

DRILL EXISTING HANDHOLE (4)

(29'-E-2") (TO REMAIN)

88'-U.C. (2)4"

46' 52'

ASPHALT

CONCRETE

250' TO STOP BAR

PROPOSED INTERSECTION AND (SAMPLING) SYSTEM DETECTORS

5'-U.C. (3)1"C.N.C.

MAST ARM WITH DUAL MAST ARMS, 38' AND 20' 36" DIA. FOUNDATIONS (14')

60'-U.C. 4"

43'-U.C. 3"

DRILL EXISTING HANDHOLE (3)

(257'-E-2") (TO REMAIN)

(102'-E-2") (TO BE ABANDONED)

ASPHALT

5'-U.C. 3"

CAMERA POST

40' MAST ARM 36" DIA FOUNDATION (13')

TRANSFORMER

I-355 RAMP "C"

CONC.

ASPHALT

43'-U.C. 3"

24' MAST ARM 30" DIA. FOUNDATION (10')

SIGN - (A)

LEFT ON GREEN ARROW ONLY

R10-5
30"x36" (TYP)
SIGN PANEL TYPE 1
(3 REQUIRED)

FOR REFERENCE ONLY

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

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

CHA #4088.886

FILE NAME = 60T98-17-IL56West Ramps-TS.dgn	USER NAME = jwhatton	DESIGNED - JRD	REVISED -
		DRAWN - PJS/JPW	REVISED -
	PLOT SCALE = 1.0	CHECKED - KLB	REVISED -
$MODELNAME$	PLOT DATE = 5/18/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	17
		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

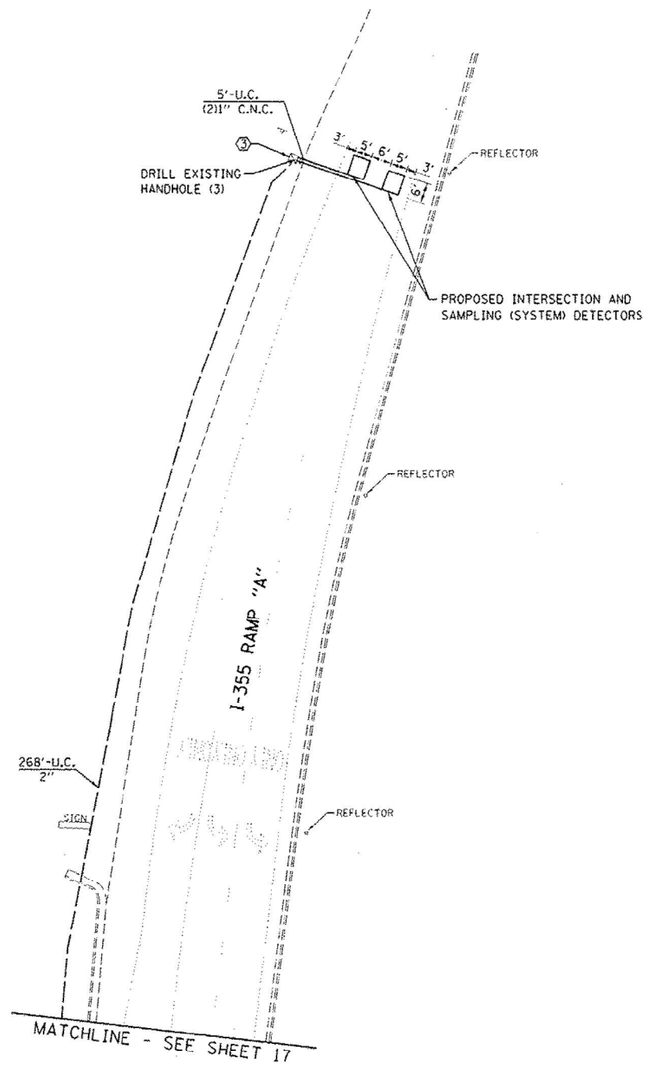
USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 17 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	75
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



FOR REFERENCE ONLY

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RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

GHA #4085.885

FILE NAME = 60T98-10-IL56West Ramps-TS.dgn	USER NAME = gshuster	DESIGNED - JRD	REVISED -
		DRAWN - PJS/JPW	REVISED -
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
$MODELNAME$	PLOT DATE = 5/19/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	18
		CONTRACT NO. 60T98		
	ILLINOIS	FED. AID PROJECT		

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

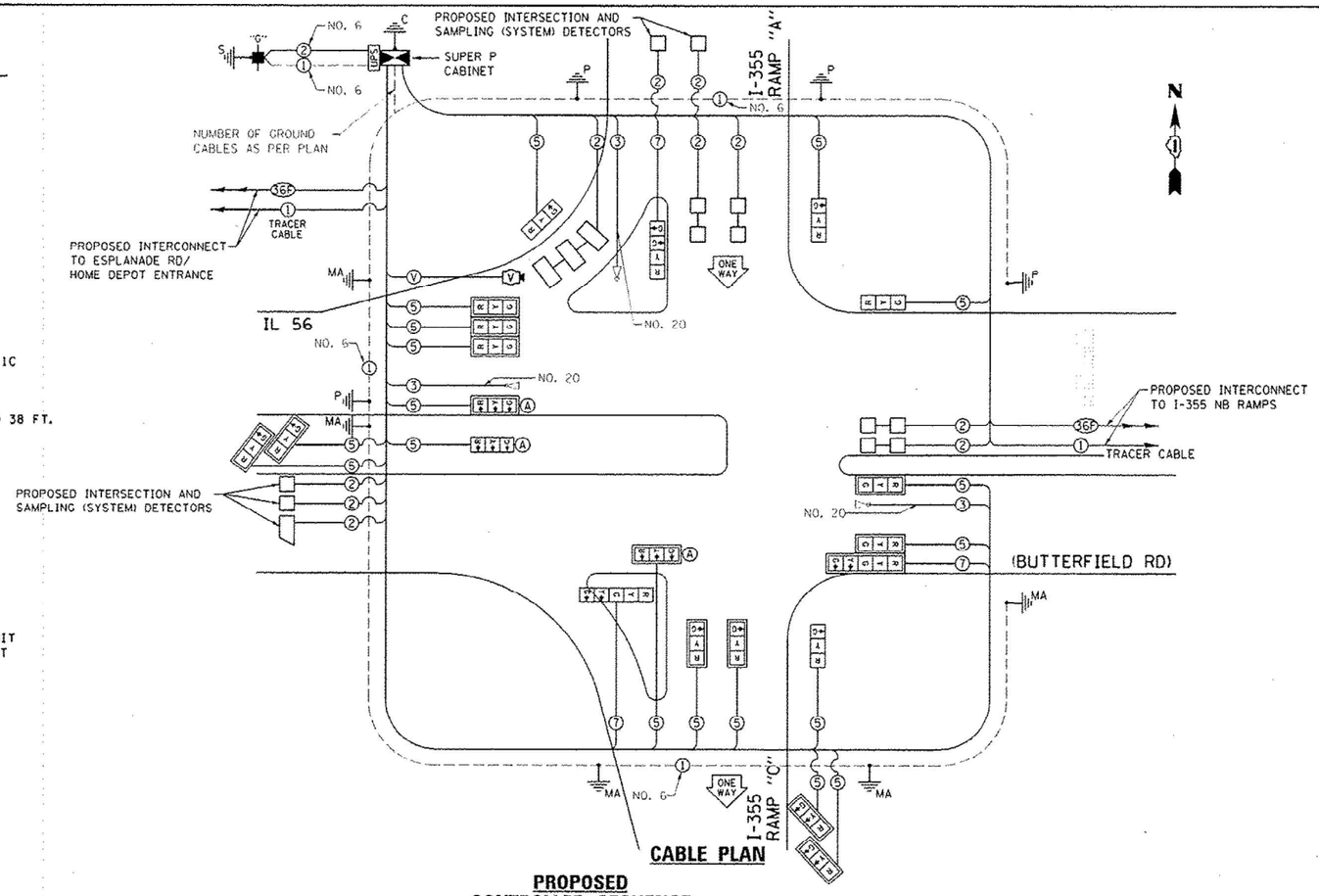
SCALE: N.T.S. | SHEET 18 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	76
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

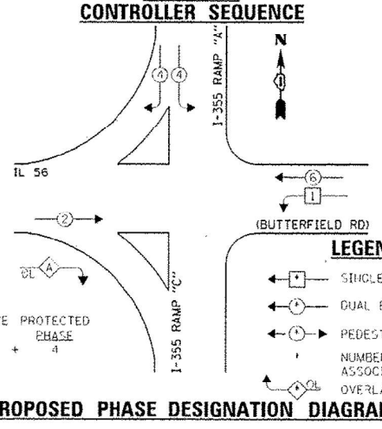
NO.	QUANT.	UNIT	
1.	1.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.40	L SUM	MOBILIZATION
3.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	22.50	SQ FT	SIGN PANEL - TYPE 1
7.	1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
8.	428	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
9.	77	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
10.	187	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
11.	419	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
12.	92	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.
13.	2	EACH	HANDHOLE
14.	4	EACH	DOUBLE HANDHOLE
15.	1	EACH	TRANSCEIVER - FIBER OPTIC
16.	4,668	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
17.	803	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
18.	3,224	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
19.	34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
20.	746	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
21.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
22.	2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
23.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
24.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 38 FT.
25.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
26.	20	FOOT	CONCRETE FOUNDATION, TYPE A
27.	4	FOOT	CONCRETE FOUNDATION, TYPE C
28.	30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
29.	27	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
30.	13	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
31.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
32.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
33.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
34.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
35.	14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
36.	10	EACH	INDUCTIVE LOOP DETECTOR
37.	660	FOOT	DETECTOR LOOP, TYPE I
38.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
• 39.	3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
• 40.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
41.	1,916	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
42.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
43.	6	EACH	REMOVE EXISTING HANDHOLE
44.	10	EACH	REMOVE EXISTING CONCRETE FOUNDATION
• 45.	675	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
46.	513	FOOT	ROD AND CLEAN EXISTING CONDUIT
47.	1	EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR ADVANCE)
48.	1	EACH	FULL-ACTUATED CONTROLLER AND SUPER P CABINET, TYPE IV, SPECIAL
49.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
50.	51.40	SQ FT	TEMPORARY INFORMATION SIGNING
51.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
52.	7	EACH	CLEAN EXISTING MANHOLE OR HANDHOLE

•100% OF THE COST SHALL BE PAID BY THE VILLAGE OF DOWNERS GROVE



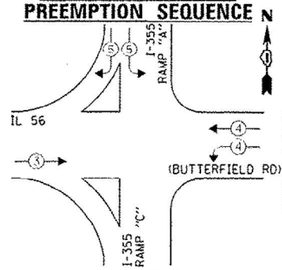
CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



OVERLAP LETTER A = PERMISSIVE PHASE 2 + PROTECTED PHASE 4

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	—	⌐	⌐

LEGEND:

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

PROPOSED PHASE DESIGNATION DIAGRAM

FOR REFERENCE ONLY

SIGN - (A)

LEFT ON GREEN ARROW ONLY

R10-5
30"X36" (TYP)
SIGN PANEL TYPE 1
(3 REQUIRED)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	21	135	17	0.50	178.5
SIGNAL (YELLOW)	21	135	25	0.25	131.25
SIGNAL (GREEN)	22	135	15	0.25	82.5
ARROW	4	135	12	0.40	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	1	-	150	1.00	150.00
BATTERY BACKUP	1	-	35	1.00	35.0
ILLUMINATED SIGN	-	-	25	0.05	-
				TOTAL =	672.05

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMED - UNIVERSITY PARK

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

GHA #4085.885

FILE NAME = 62T98-19-IL56West Ramp-Cable.dgn	USER NAME = gshatten	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
$MODELNAME$	PLOT SCALE = 100	CHECKED - KLB	REVISED -
	PLOT DATE = 9/15/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	19
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

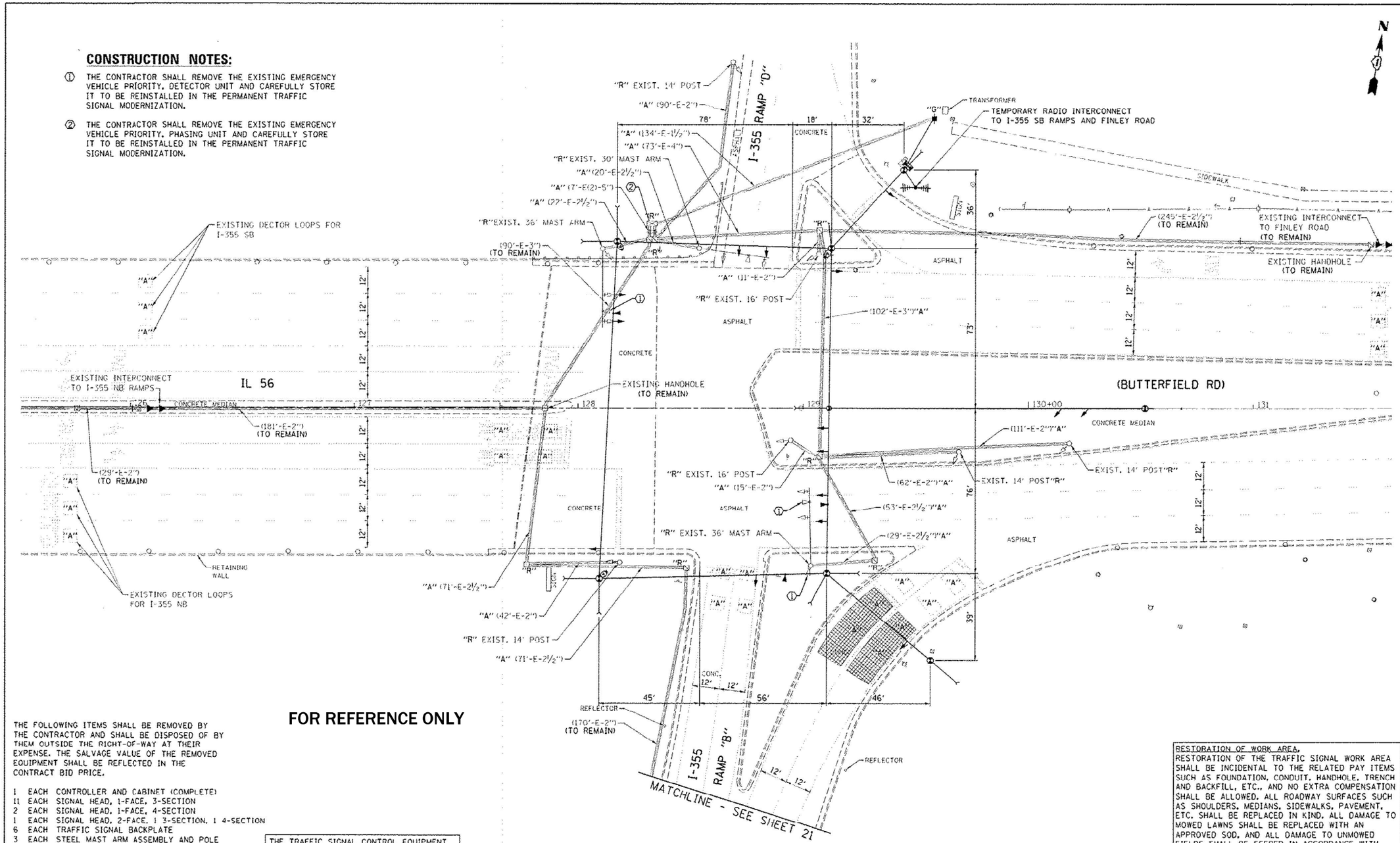
SCALE: N.T.S. | SHEET 19 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	77
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY, DETECTOR UNIT AND CAREFULLY STORE IT TO BE REINSTALLED IN THE PERMANENT TRAFFIC SIGNAL MODERNIZATION.

② THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY, PHASING UNIT AND CAREFULLY STORE IT TO BE REINSTALLED IN THE PERMANENT TRAFFIC SIGNAL MODERNIZATION.



FOR REFERENCE ONLY

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

1 EACH CONTROLLER AND CABINET (COMPLETE)
11 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
1 EACH SIGNAL HEAD, 2-FACE, 1 3-SECTION, 1 4-SECTION
6 EACH TRAFFIC SIGNAL BACKPLATE
3 EACH STEEL MAST ARM ASSEMBLY AND POLE
6 EACH TRAFFIC SIGNAL POST
1 EACH SERVICE INSTALLATION

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

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

GHA #4085.885

FILE NAME = 60T98-28-ILSGeBase Maps-TS-Temp.dgn	USER NAME = gshatten	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
#MODELNAME#	PLOT DATE = 5/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DUPAGE	33	20
		CONTRACT NO. 60T98		
		ILLINOIS	FED. AID PROJECT	

LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nho	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 20 OF 33 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	78
		CONTRACT NO. 62M34		
		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(S) SHALL BE FURNISHED BY THE CONTRACTOR.

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

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 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 CONTROLLER EQUIPMENT.•

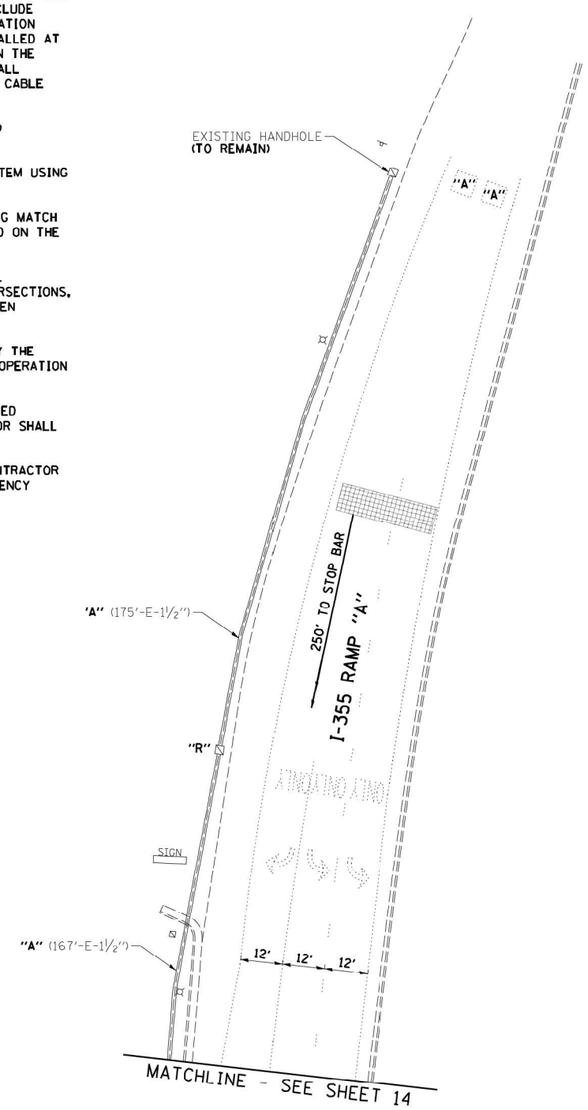
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

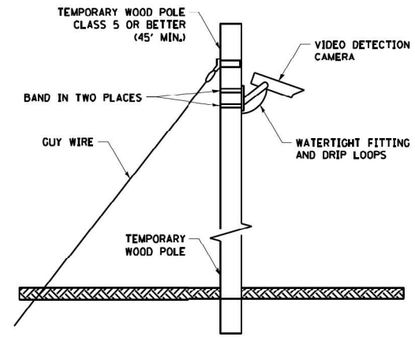
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION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

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

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF THE DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

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





TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

N

FOR REFERENCE ONLY

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

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

GHA #4085.885

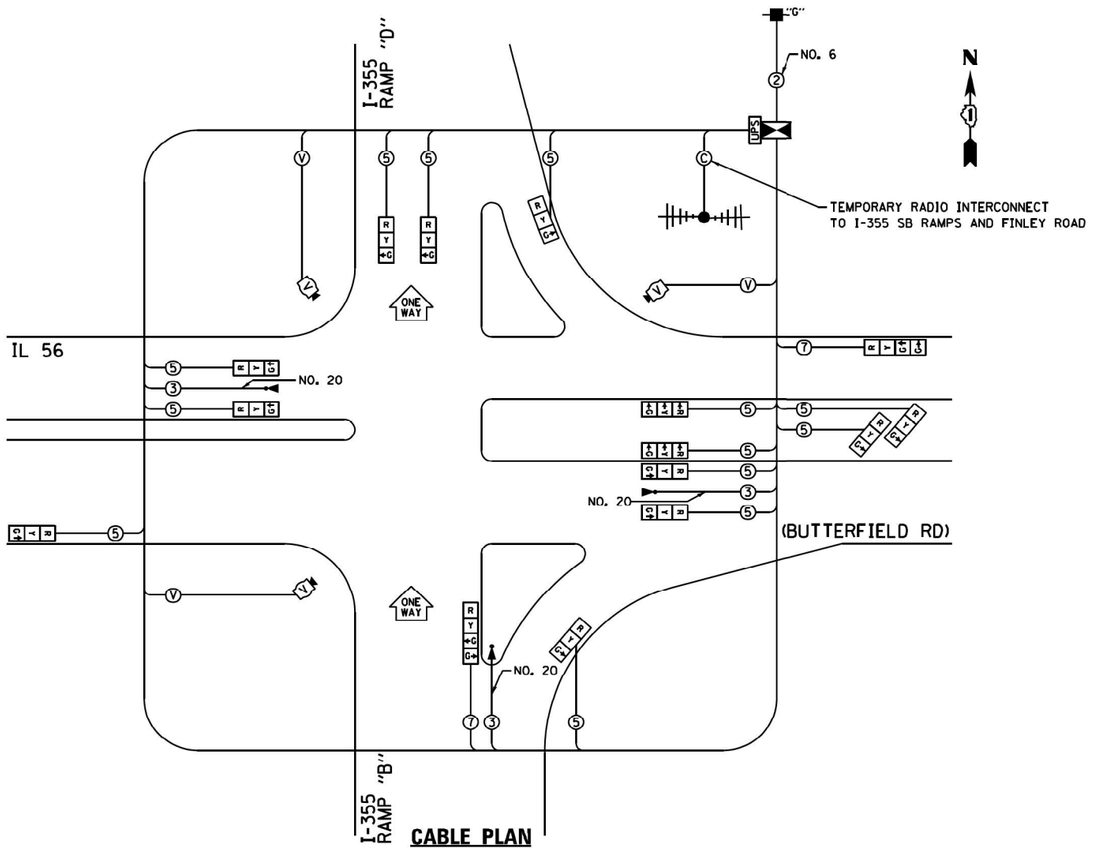
FILE NAME = 60T98-15-IL56@West Ramp-TS-Temp.dgn	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
$MODELNAME$	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
	PLOT DATE = 4/26/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	15
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			



CABLE PLAN

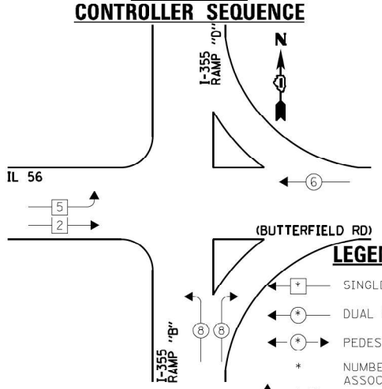
FOR REFERENCE ONLY

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	15	135	17	0.50	127.5
SIGNAL (YELLOW)	15	135	25	0.25	93.75
SIGNAL (GREEN)	17	135	15	0.25	63.75
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
				TOTAL =	410.0

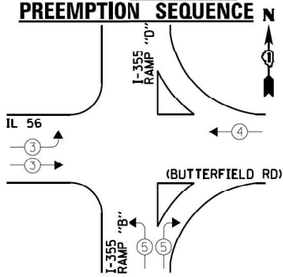
ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMED - UNIVERSITY PARK

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

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

TEMPORARY PHASE DESIGNATION DIAGRAM

GHA #4085.885

FILE NAME =	USER NAME = jwolfe	DESIGNED - JRD	REVISED -
60T98-22-IL56@East Ramp-Temp_Cable.dgn		DRAWN - PJS/JPW	REVISED -
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
$MODELNAME$	PLOT DATE = 5/7/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY VEHICLE PREEMPTIONN SEQUENCE
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	22
		CONTRACT NO. 60T98		
	ILLINOIS	FED. AID PROJECT		

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

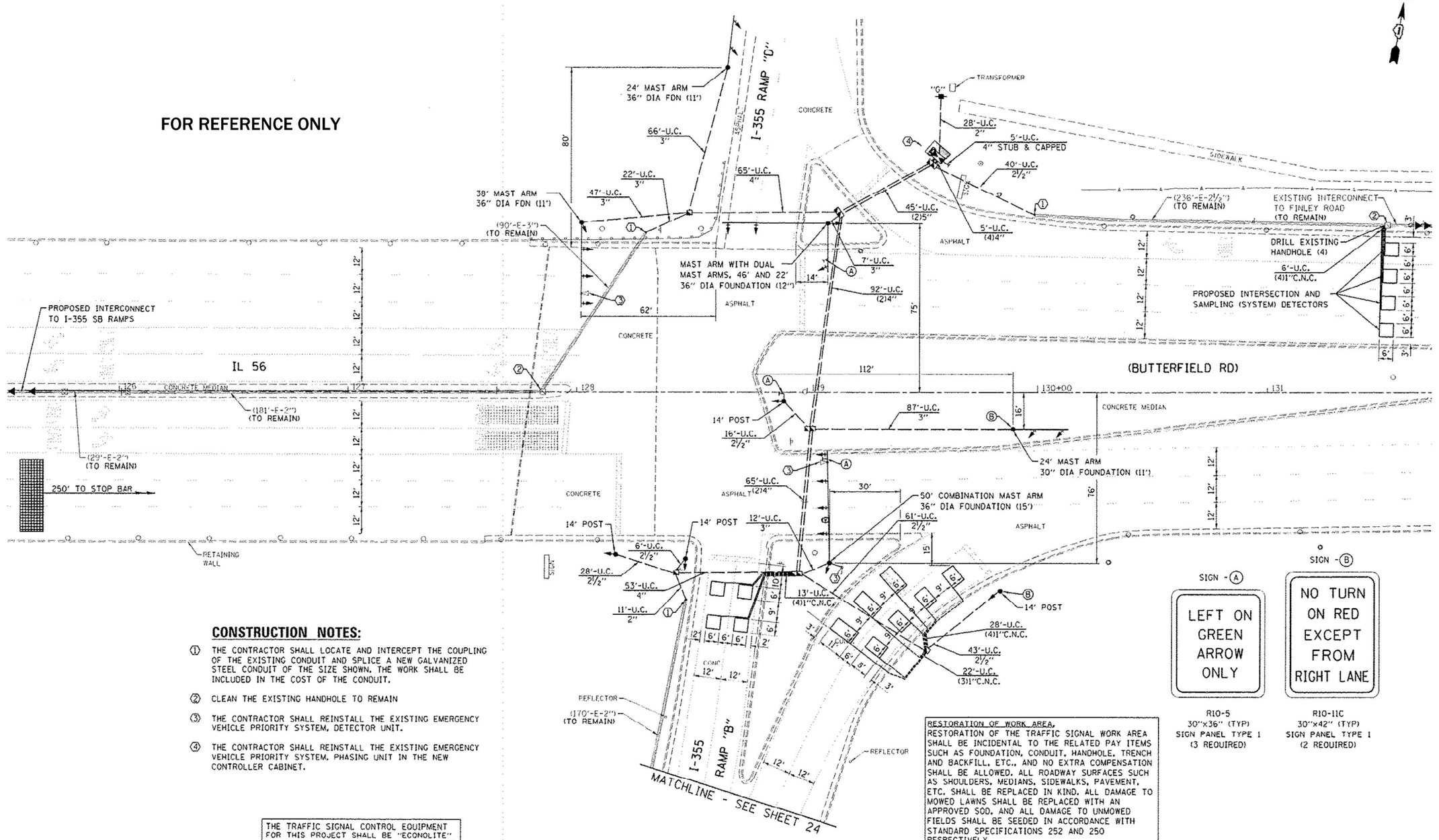
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 22 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	80
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

FOR REFERENCE ONLY



CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL LOCATE AND INTERCEPT THE COUPLING OF THE EXISTING CONDUIT AND SPLICE A NEW GALVANIZED STEEL CONDUIT OF THE SIZE SHOWN. THE WORK SHALL BE INCLUDED IN THE COST OF THE CONDUIT.

② CLEAN THE EXISTING HANDHOLE TO REMAIN

③ THE CONTRACTOR SHALL REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT.

④ THE CONTRACTOR SHALL REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT IN THE NEW CONTROLLER CABINET.

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

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

GHA #4085.885

FILE NAME = 60T98-23-IL56East Ramp-TS.dgn	USER NAME = gshitten	DESIGNED - JRD	REVISED -
		DRAWN - PJS/JPW	REVISED -
$MODELNAME$	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
	PLOT DATE = 5/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	23
		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

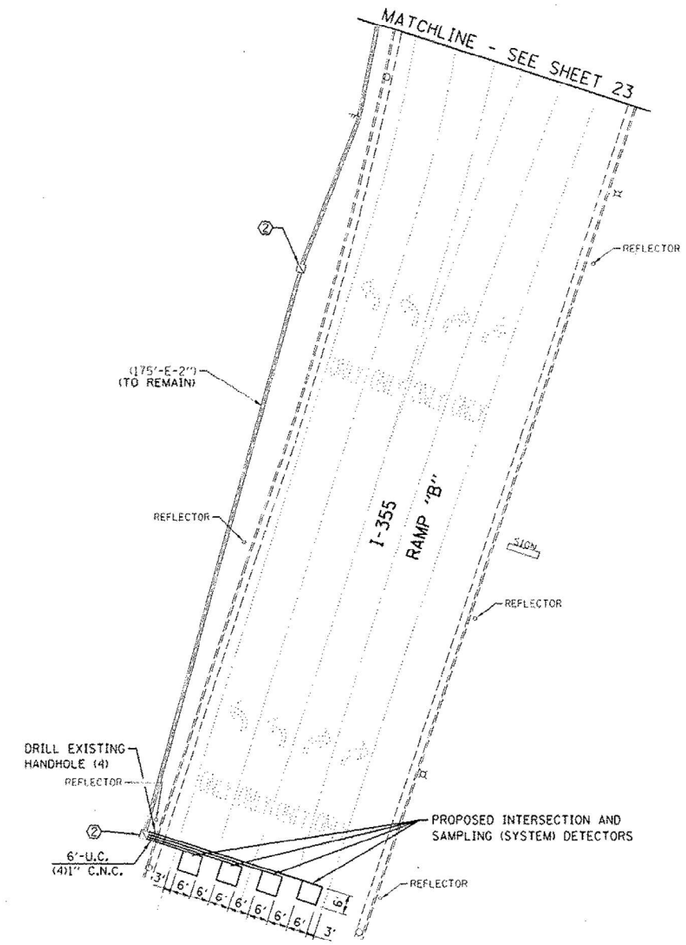
USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 23 OF 33 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	81
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



FOR REFERENCE ONLY

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

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

GHA #4085.885

FILE NAME = 60T98-24-IL56East Ramp-TS.dgn	USER NAME = gehassen	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
	PLOT SCALE = 120	CHECKED - KLB	REVISED -
$MODELNAME$	PLOT DATE = 5/10/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	24
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

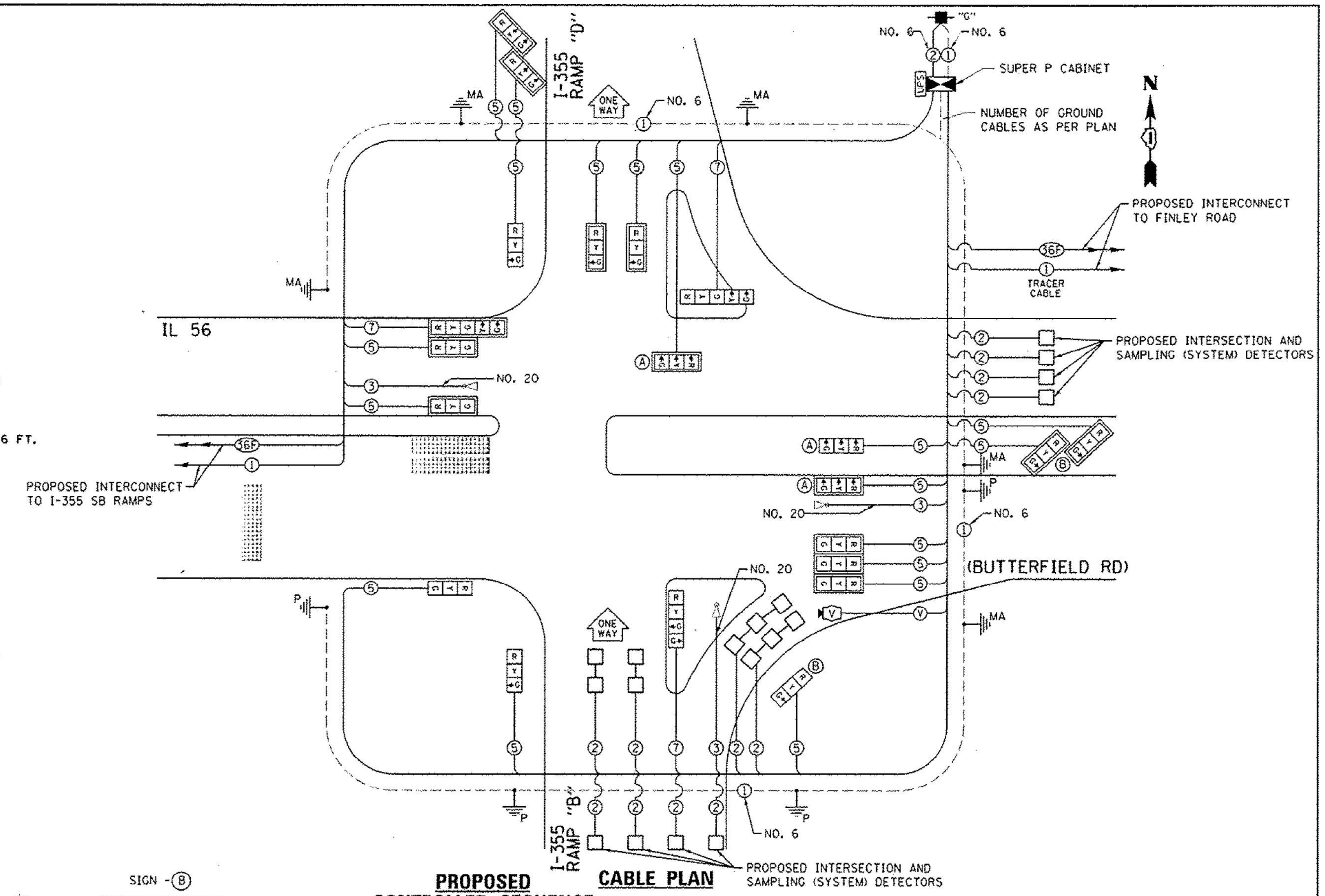
SCALE: N.T.S.	SHEET 24 OF 33 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	82
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

NO.	QUANT.	UNIT	
1.	1.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.40	L SUM	MOBILIZATION
3.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	40.00	SQ FT	SIGN PANEL - TYPE 1
7.	1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
8.	39	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
9.	194	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
10.	241	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
11.	457	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
12.	90	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.
13.	3	EACH	HANDHOLE
14.	4	EACH	DOUBLE HANDHOLE
15.	1	EACH	TRANSCEIVER - FIBER OPTIC
16.	5,239	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
17.	637	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
18.	5,296	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
19.	37	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
20.	866	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
21.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
22.	2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
23.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
24.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 46 FT.
25.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.
26.	20	FOOT	CONCRETE FOUNDATION, TYPE A
27.	4	FOOT	CONCRETE FOUNDATION, TYPE C
28.	20	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
29.	40	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
30.	13	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
31.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
32.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
33.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
34.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
35.	14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
36.	12	EACH	INDUCTIVE LOOP DETECTOR
37.	838	FOOT	DETECTOR LOOP, TYPE I
38.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
• 39.	3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
• 40.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
41.	2,504	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
42.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
43.	6	EACH	REMOVE EXISTING HANDHOLE
44.	8	EACH	REMOVE EXISTING CONCRETE FOUNDATION
• 45.	905	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
46.	671	FOOT	ROD AND CLEAN EXISTING CONDUIT
47.	1	EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR ADVANCE)
48.	1	EACH	FULL-ACTUATED CONTROLLER AND SUPER P CABINET, TYPE IV, SPECIAL
49.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
50.	51.40	SQ FT	TEMPORARY INFORMATION SIGNING
51.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
52.	4	EACH	CLEAN EXISTING MANHOLE OR HANDHOLE

•100% OF THE COST SHALL BE PAID BY THE VILLAGE OF DOWNERS GROVE



CABLE PLAN

SIGN - (A)

LEFT ON GREEN ARROW ONLY

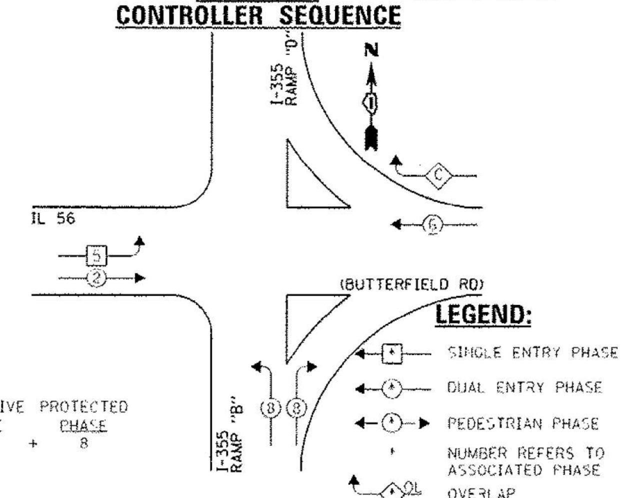
R10-5
30"x36" (TYP)
SIGN PANEL TYPE 1
(3 REQUIRED)

SIGN - (B)

NO TURN ON RED EXCEPT FROM RIGHT LANE

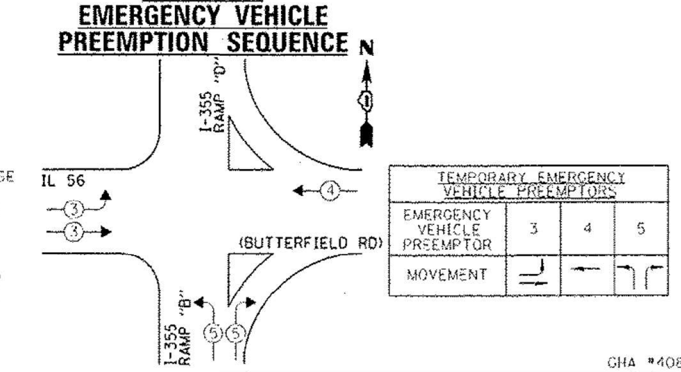
R10-11C
30"x42" (TYP)
SIGN PANEL TYPE 1
(2 REQUIRED)

PROPOSED CONTROLLER SEQUENCE



PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS		WATTAGE			TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	21	135	17	0.50	178.5
SIGNAL (YELLOW)	21	135	25	0.25	131.25
SIGNAL (GREEN)	22	135	15	0.25	82.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	1	-	150	1.00	150.0
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
				TOTAL =	672.05

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMED - UNIVERSITY PLACE

FOR REFERENCE ONLY

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

GHA #4085.885

FILE NAME = C8190-25-IL56@East Ramp-Cable.dgn	USER NAME = gwbitten	DESIGNED - JRD	REVISED -
\$MODELNAME\$	PLOT SCALE = 1:20	DRAWN - PJS/JPW	REVISED -
	PLOT DATE = 5/15/2013	CHECKED - KLB	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 56 (BUTTERFIELD RD) AT I-355 NB RAMPS

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DUPAGE	33	25

CONTRACT NO. 60T98
ILLINOIS FED. AID PROJECT

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

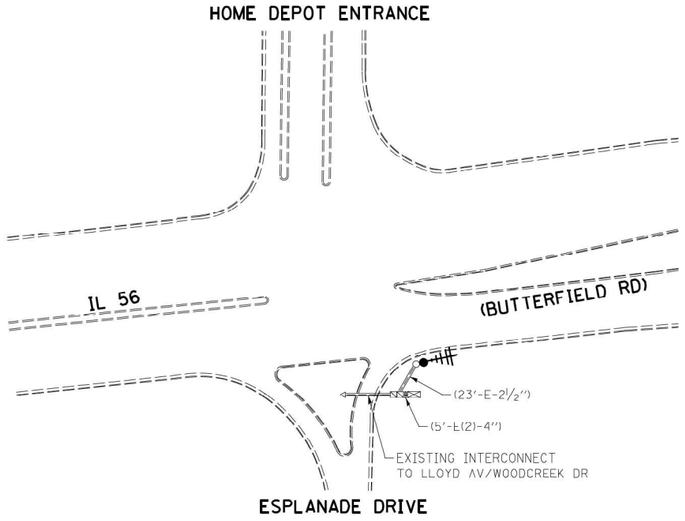
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

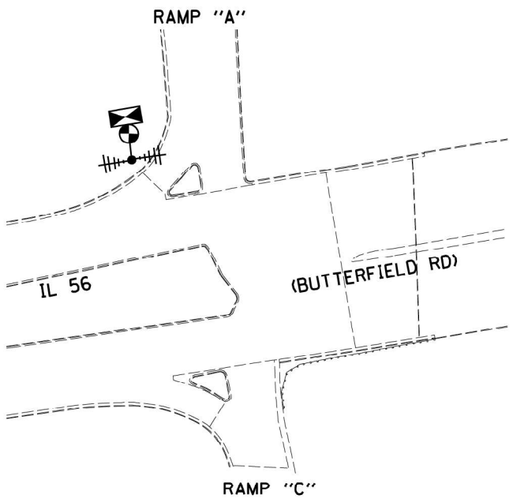
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

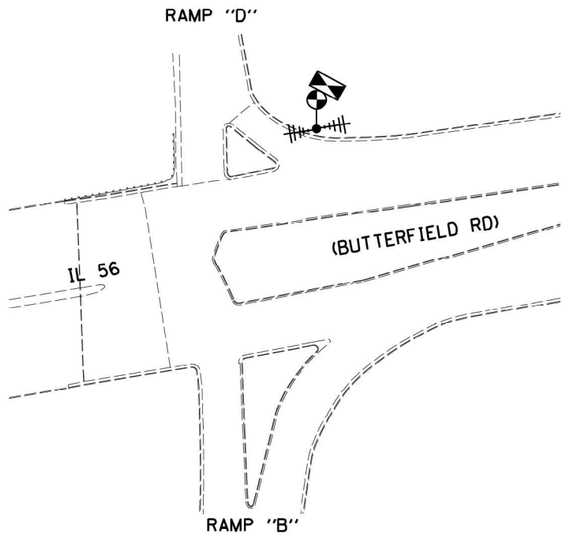
SCALE: N.T.S. | SHEET 25 OF 33 SHEETS | STA. TO STA.

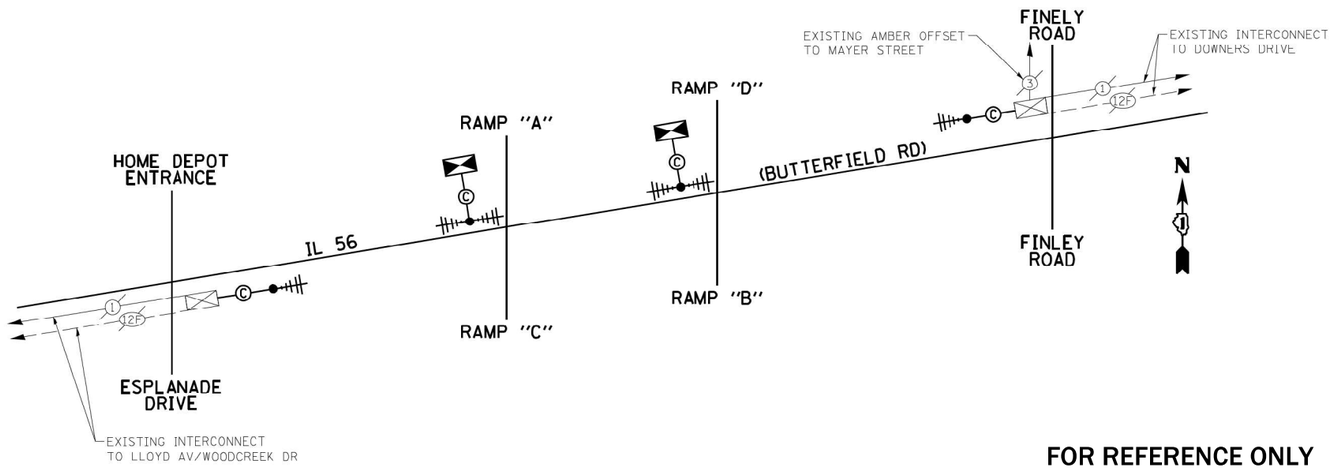
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	83

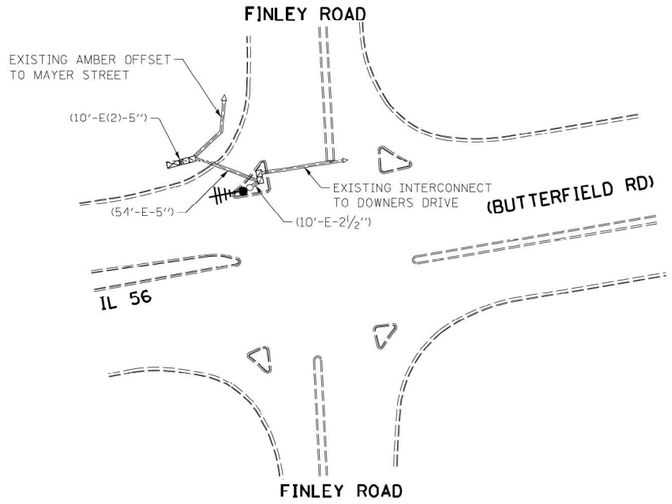
CONTRACT NO. 62M34
ILLINOIS FED. AID PROJECT











FOR REFERENCE ONLY

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

GHA #4085.885

FILE NAME = 60T98-26-Temp_Interconnect Schematic.dgn	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
$MODELNAME$	PLOT SCALE = 1:50	CHECKED - KLB	REVISED -
	PLOT DATE = 4/17/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT AND SCHEMATIC PLAN
IL 56 (BUTTERFIELD RD) FROM ESPLANADE DRIVE/HOME DEPOT ENTRANCE TO FINLEY ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	26
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

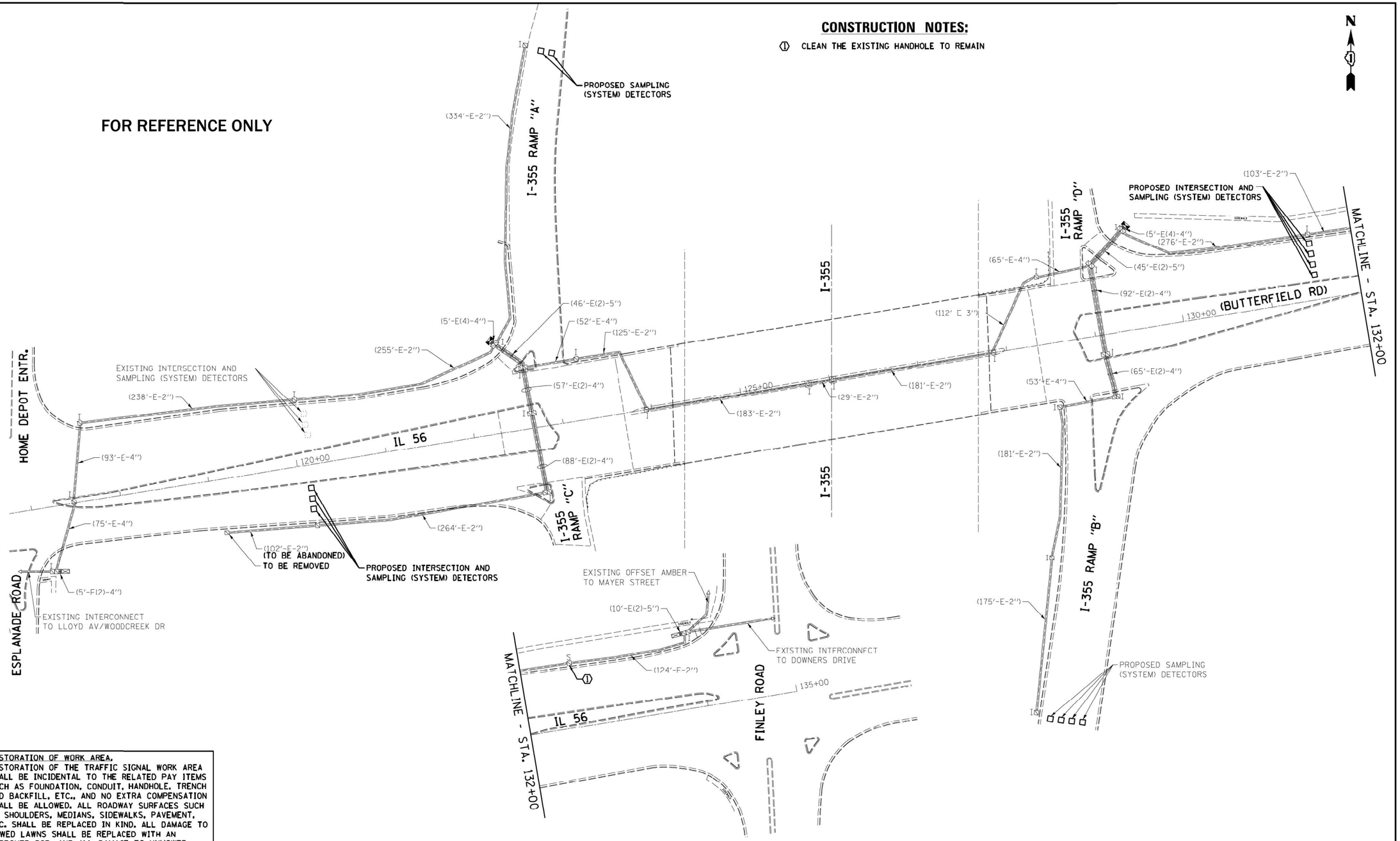
SCALE: N.T.S. | SHEET 26 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	84
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

① CLEAN THE EXISTING HANDHOLE TO REMAIN

FOR REFERENCE ONLY



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS 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.

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

GHA #4085.885

FILE NAME = 60T98-27-Interconnect	USER NAME = jwuulfw	DESIGNED - JRD	REVISED -
		DRAWN - PJS	REVISED -
$MODELNAME$	PLOT SCALE = 1:50	CHECKED - KLB	REVISED -
	PLOT DATE = 4/29/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL 56 (BUTTERFIELD RD) FROM ESPLANADE ROAD/HOME DEPOT ENTRANCE TO FINLEY ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	27
		CONTRACT NO. 60T98		
		ILLINOIS	FED. AID PROJECT	

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nho	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

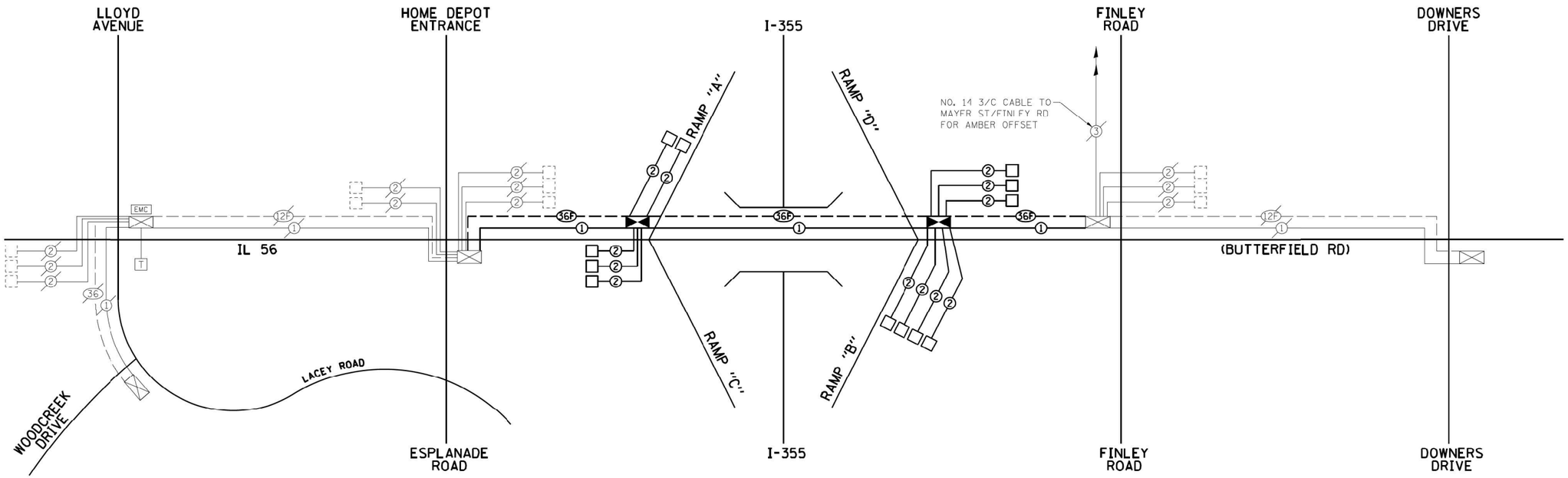
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 27 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	85
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	

FOR REFERENCE ONLY



NOTE:

THE EXISTING TRAFFIC SIGNAL AT WOODCREEK DRIVE AND LACEY ROAD IS MAINTAINED BY THE VILLAGE OF DOWNERS GROVE.

SCHEDULE OF QUANTITIES
INTERCONNECT

NO.	QUANT.	UNIT	
1.	1.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.20	L SUM	MOBILIZATION
3.	0.20	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.20	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.20	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	2	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7.	2,240	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
8.	3,310	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
9.	1	EACH	REMOVE EXISTING HANDHOLE
10.	393	FOOT	ROD AND CLEAN EXISTING CONDUIT
11.	2,240	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F
12.	2	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1
13.	1	EACH	CLEAN EXISTING MANHOLE OR HANDHOLE

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

FILE NAME = 60T98-28-Interconnect Schematic.dgn	USER NAME = jwoulfe	DESIGNED - JRD	REVISED -
		DRAWN - PJS/JPW	REVISED -
	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
$MODELNAME$	PLOT DATE = 5/7/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC – IDOT SYSTEM #41

SCALE: NONE | SHEET ___ OF ___ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	28
		CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nha		DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.		CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021		DATE - 7/2021	REVISED -

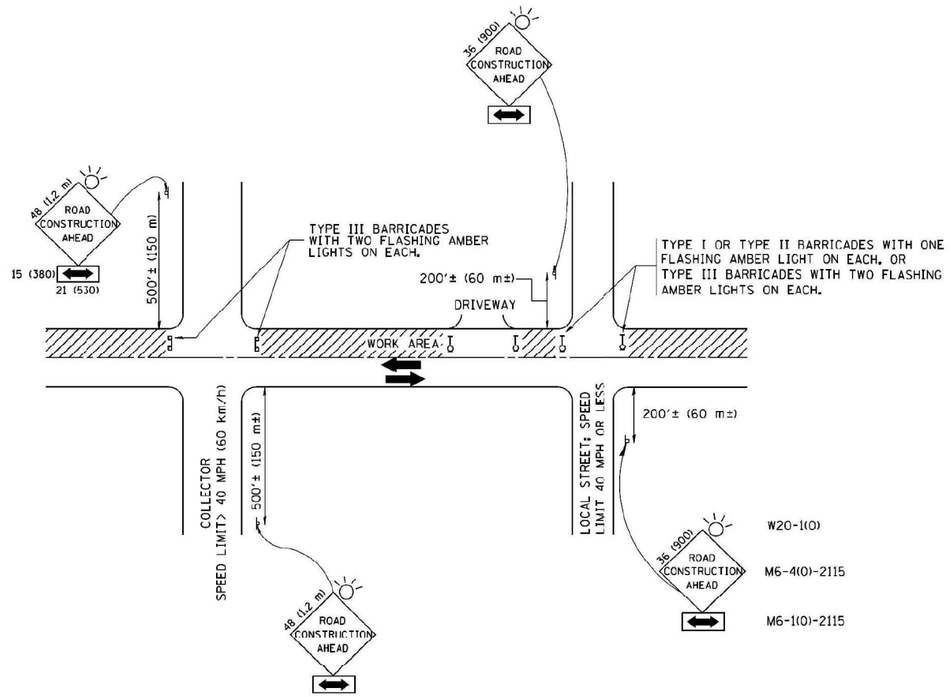
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 28 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	86
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

FOR REFERENCE ONLY



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 = 60T98-29-01 Standard Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	29
	TC-10	CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

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PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

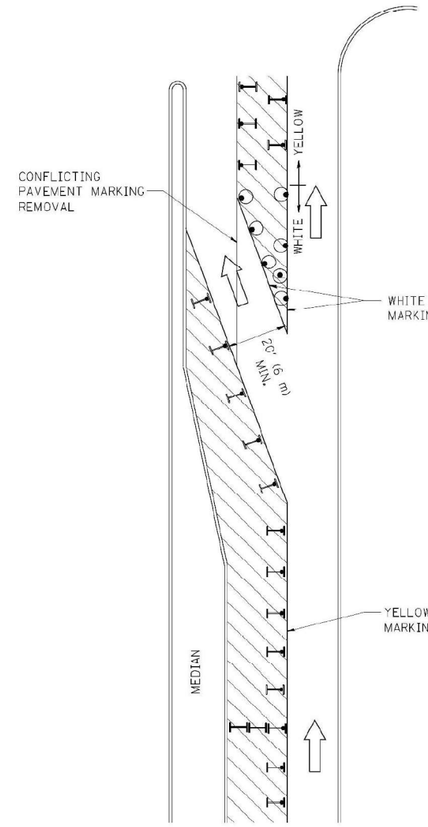
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

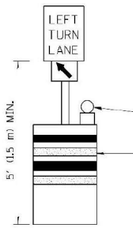
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 29 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	87
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

FOR REFERENCE ONLY





R 3-1100L 24 x 24 (600 x 600)

M6-2L 21 x 15 (530 x 380)

OPTIONAL FLASHING LIGHT

STANDARD 701901
SEE NOTE 8

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

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.

FILE NAME = 60T98-30-01 Standard Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	30
	TC-14	CONTRACT NO. 60T98		
	ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

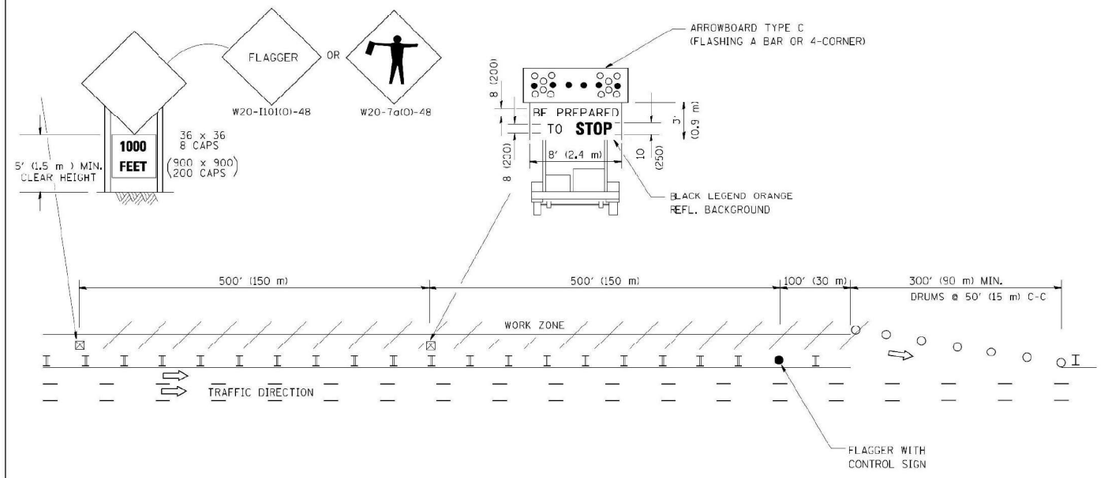
SCALE: N.T.S. | SHEET 30 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	88
		CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

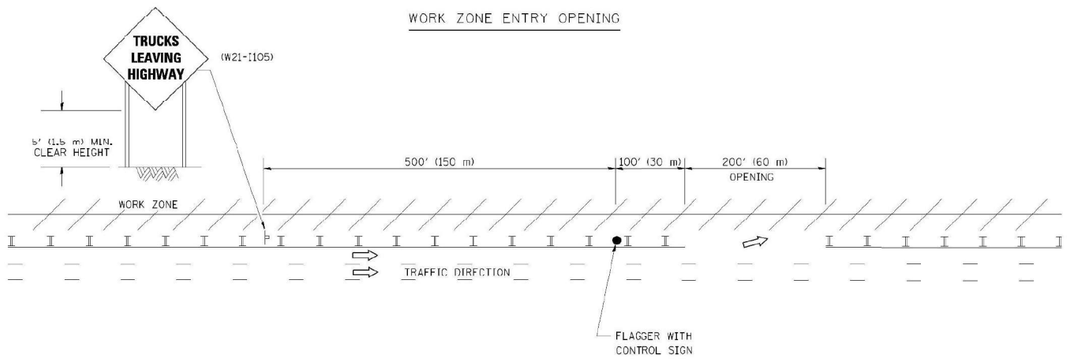
FOR REFERENCE ONLY

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = 60T98-31-01 Standard Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
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	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	31
	TC-18	CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

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PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 31 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	89
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

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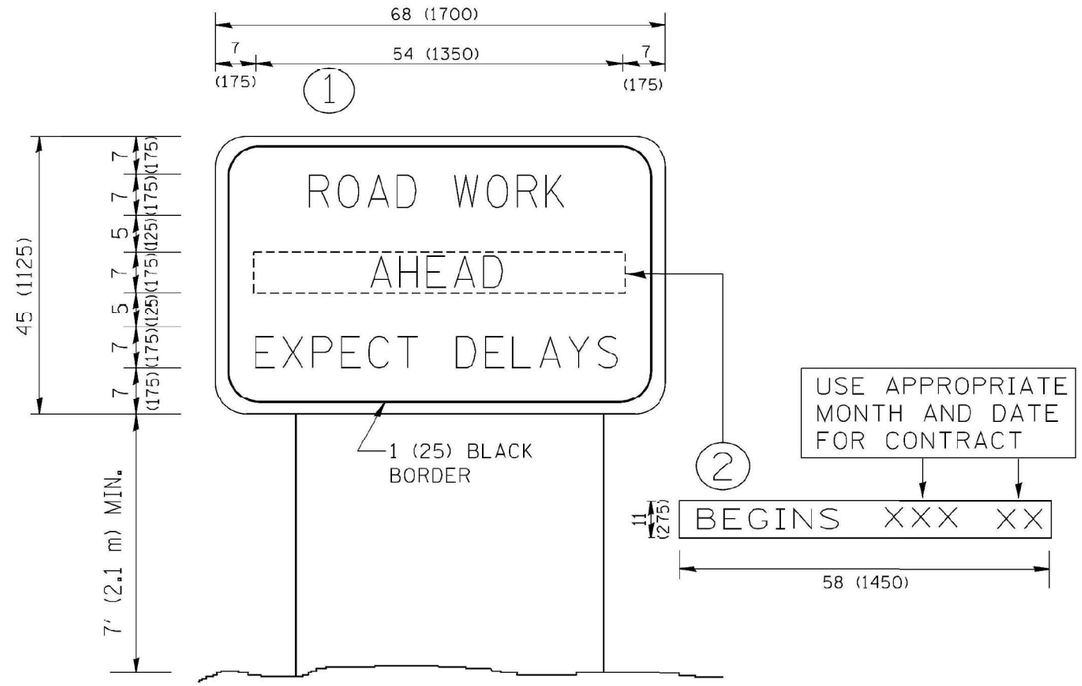

NOTES:

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 = 60T98-32-01 Standard Details.dgn	USER NAME = jwoulfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET 1 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	32
	TC-22	CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

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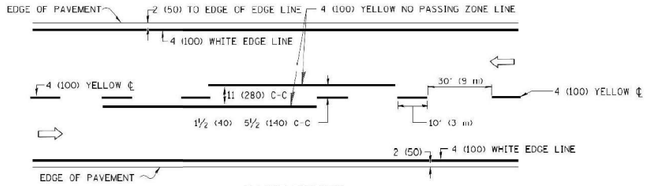
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

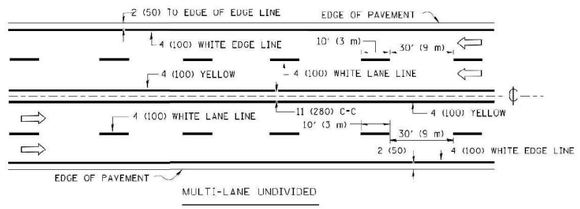
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 32 OF 33 SHEETS | STA. | TO STA.

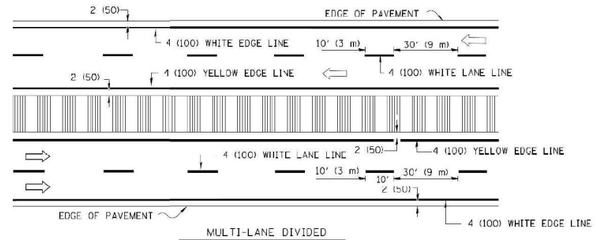
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	90
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY



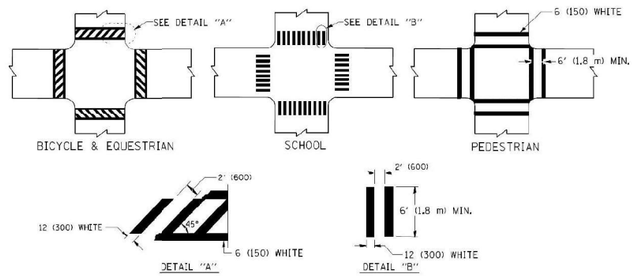
MULTI-LANE UNDIVIDED



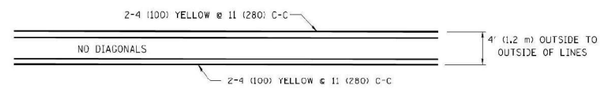
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

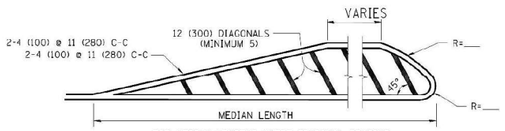
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



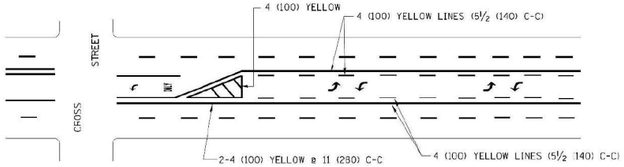
4' (1.2 m) WIDE MEDIANS ONLY



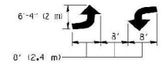
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

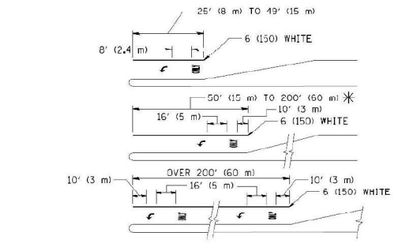


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

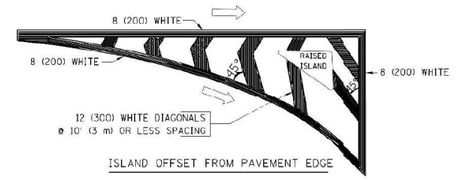


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

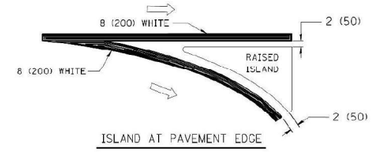
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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" IS 6' (1.8 m) LETTERS; 1G (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

FOR REFERENCE ONLY

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	PLOT DATE = 4/10/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	(56R-2) TS	DuPAGE	33	33
TC-13		CONTRACT NO. 60T98		
		ILLINOIS FED. AID PROJECT		

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	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

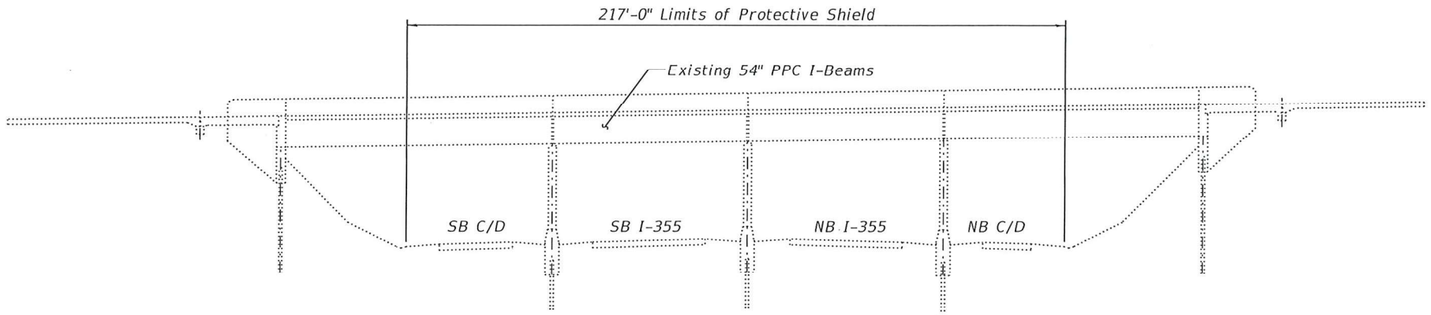
F.A.P. 365 (IL ROUTE 56) OVER I-355
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET 33 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	91
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		

Existing Structure: SN 022-0220 built in 1988 as FAU Rte. 3545, Tollway Contract CIP-617 at Sta. 125+99.23. The structure is a 4-span bridge with a 7½" deck on PPC I-beams, measuring 307'-0¼" back to back abutments with a 7°22'58" left ahead skew. The out to out of the deck is 135'-2". The concrete substructure units are comprised of integral abutments and multi-column piers. Stage construction will be utilized to maintain three lanes of traffic in each direction.

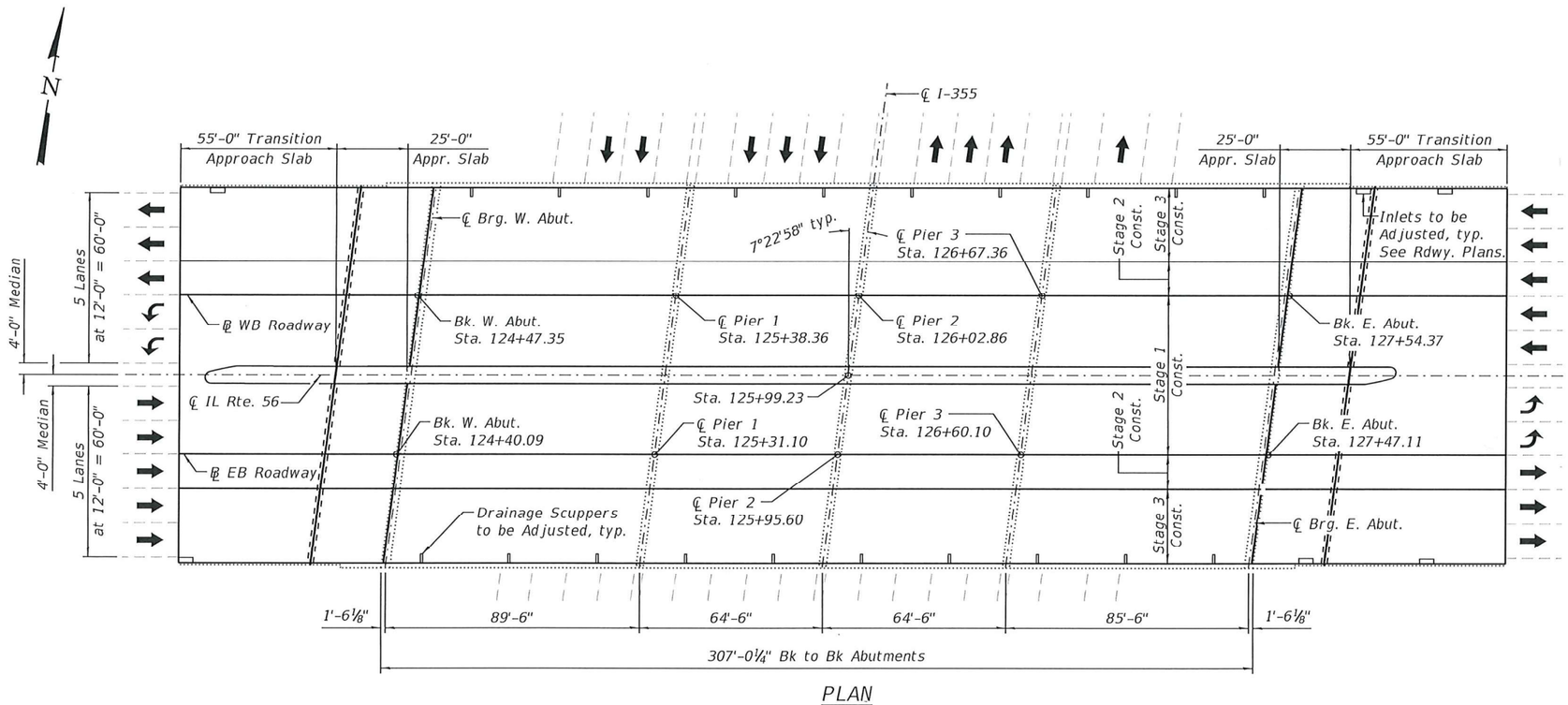
INDEX OF SHEETS



ELEVATION

SCOPE OF WORK

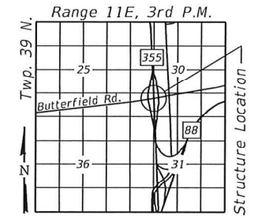
1. Perform ¾" scarification to top of existing bridge deck, between approach slabs.
2. Complete concrete repairs to the bridge deck and approach slabs.
3. Place 2¾" latex concrete overlay on deck, between approach slabs.
4. Perform ¼" diamond grinding on new overlay.
5. Provide new precompressed foam expansion joints and adjacent 1¾" HMA Resurfacing and Class D Patch at interface between approach slab and transition approach slab at each end of structure.
6. Place 1¾" Polymer Concrete nosing at interface between bridge deck and approach slab at each end of structure.
7. Apply 1¾" HMA Resurfacing to approach and transition approach slabs (See Roadway Plans).
8. Perform bridge deck grooving on new overlay, and apply protective coat to new overlay and polymer concrete nosing.
9. Apply Concrete Sealer to existing median surface and the top/inside surface of existing parapets.



PLAN

Michael J. Haley 9/17/2021

Michael T. Haley — Date
Licensed Structural Engineer
State of Illinois No. 081-005991
Expires 11/30/2022



LOCATION SKETCH

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS - NEW CONSTRUCTION
f'c = 4,000 psi (Superstructure)

LOADING HS-20

(Original Construction)

GENERAL PLAN & ELEVATION
IL RTE. 56 OVER I-355
F.A.P. RTE. 365 - SEC. 2020-179-BR
DUPAGE COUNTY
STATION 125+99.23
TOLLWAY BRIDGE NOS. 1429 & 1430
STRUCTURE NO. 022-0220

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

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PLOT DATE = 9/17/2021		CHECKED - MTH		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	92
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		

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GENERAL NOTES

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

2. Cost of removal and disposal of existing expansion joints shall be included in the cost of Preformed Joint Seal 2".

3. Protective Coat shall be applied to the new overlay and Polymer Concrete nosing.

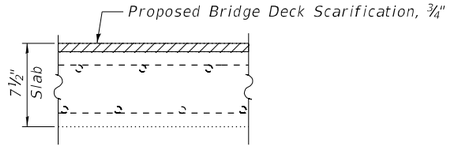
4. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the concrete adjacent to joints is poured at an ambient temperature other than 50°F.

5. Expansion joints shall be fabricated to conform to the existing cross slope of the approach slabs.

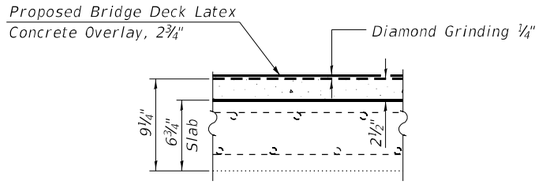
6. The Contractor shall exercise care during removal of existing joints to ensure that the curb, median, approach slab, and transition approach slabs' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the curb, median, and slabs caused by their operation as directed by the Engineer at no additional cost to the Department.

TOTAL BILL OF MATERIAL

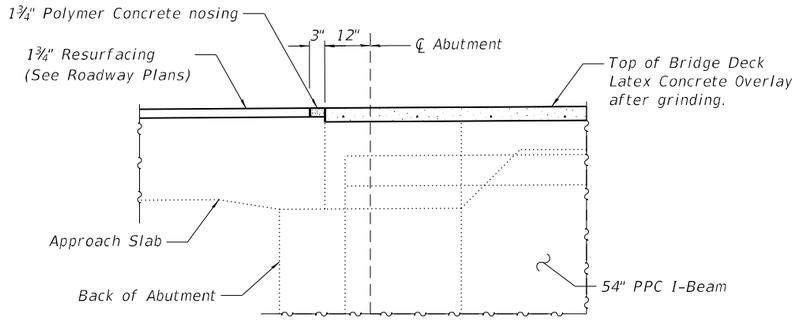
ITEM	UNIT	SUPER	SUB	TOTAL
Protective Shield	Sq. Yd.	3,270	-	3,270
Protective Coat	Sq. Yd.	4,284	-	4,284
Preformed Joint Seal 2"	Foot	273	-	273
Concrete Sealer	Sq. Ft.	4,946	-	4,946
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	4,067	-	4,067
Approach Slab Repair (Full Depth)	Sq. Yd.	17	-	17
Approach Slab Repair (Partial Depth)	Sq. Yd.	17	-	17
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq. Yd.	4,272	-	4,272
Bridge Deck Scarification, 3/4"	Sq. Yd.	4,272	-	4,272
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1	-	1
Drainage Scuppers to be Adjusted	Each	20	-	20
Diamond Grinding (Bridge Section)	Sq. Yd.	4,004	-	4,004
Polymer Concrete	Cu. Ft.	9.3	-	9.3



EXISTING BRIDGE DECK
CROSS SECTION



PROPOSED BRIDGE DECK
CROSS SECTION



PROPOSED RELIEF JOINT
AT ABUTMENTS

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	PLOT DATE = 9/28/2021	CHECKED - MTH	REVISED -	

GENERAL DATA
STRUCTURE NO. 022-0220
SHEET 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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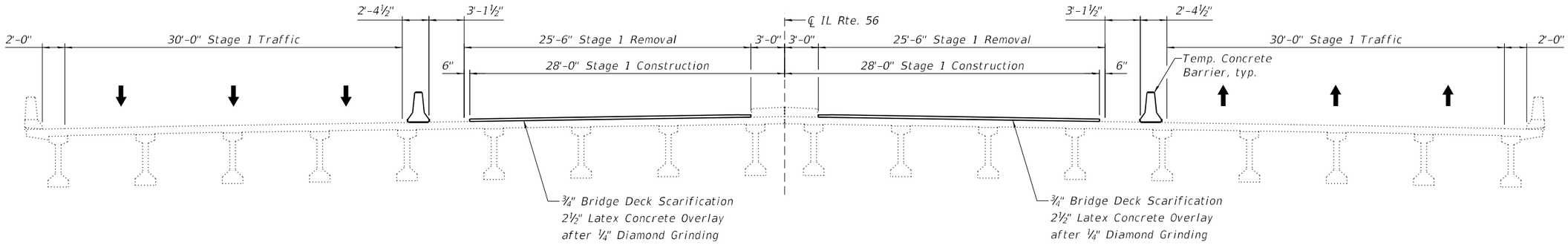
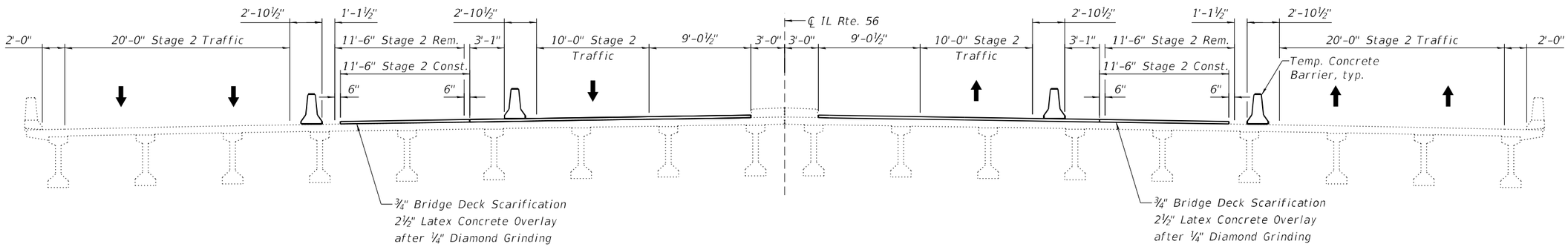
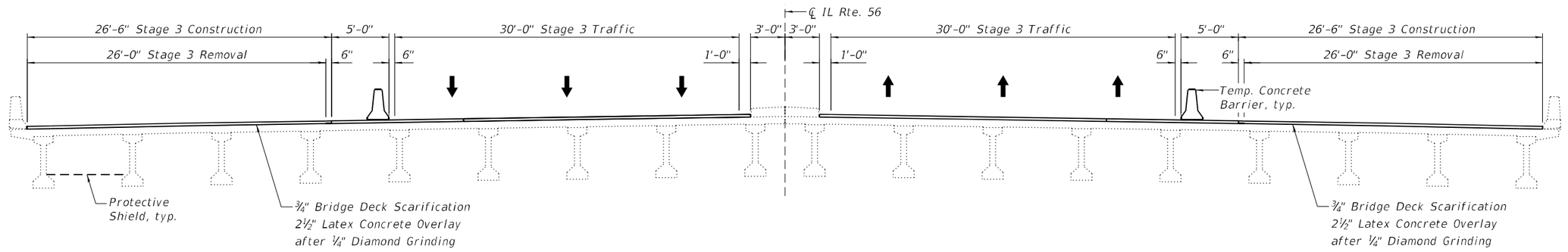
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



STAGE 1 REMOVAL & CONSTRUCTION



STAGE 2 REMOVAL & CONSTRUCTION



STAGE 3 REMOVAL & CONSTRUCTION

Notes:
All sections are looking east.
See Roadway Plans for Temporary Concrete Barrier quantities.

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Consulting Engineers
Springfield, Illinois

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PLOT DATE = 9/17/2021	CHECKED - MTH	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 022-0220
SHEET 3 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	94
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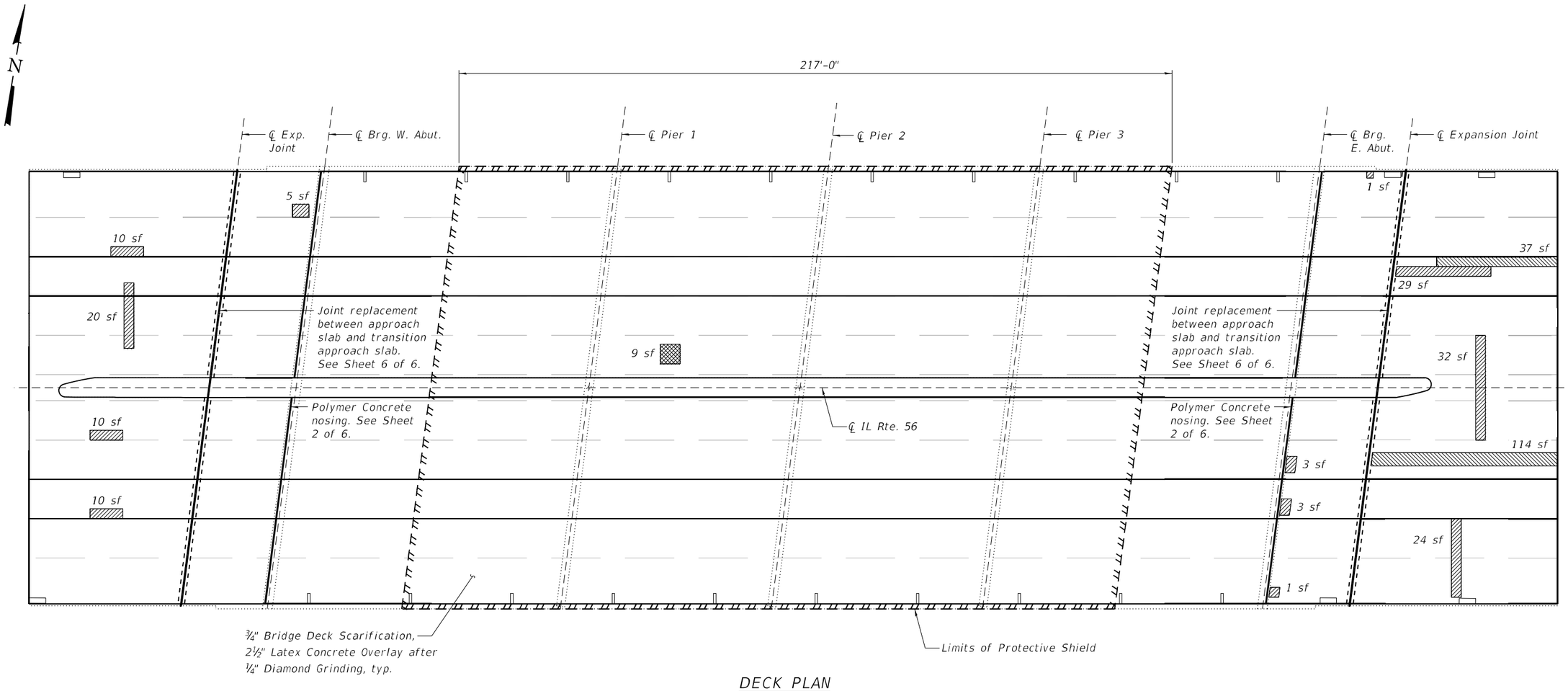


DECK PLAN

LEGEND

- Indicates Approach Slab Repair (Full Depth)
- Indicates Approach Slab Repair (Partial Depth)
- Indicates Deck Slab Repair (Full Depth, Type I)
- Indicates limits of Protective Shield
- sf – Square Feet

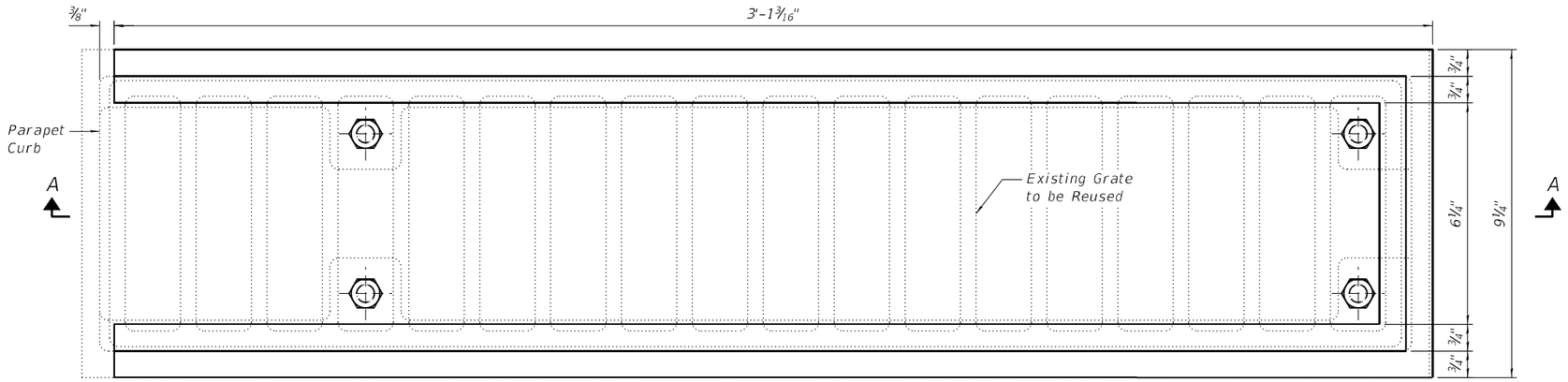
Notes:

Repair areas shown are estimated from an inspection performed on 1/7/2021. The Engineer shall document actual locations of repairs on As-Built Plans.

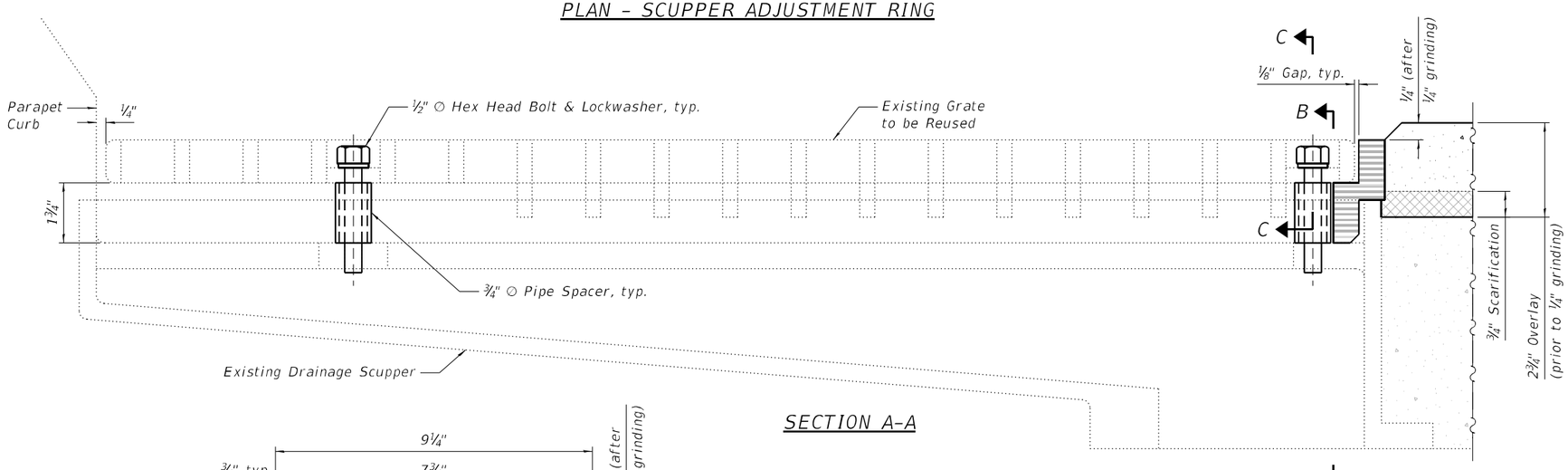
Quantity listed for Deck Slab Repair (Full Depth, Type I) is approximated. Actual quantity shall be determined in the field. See Deck Slab Repair Special Provisions.

BILL OF MATERIAL

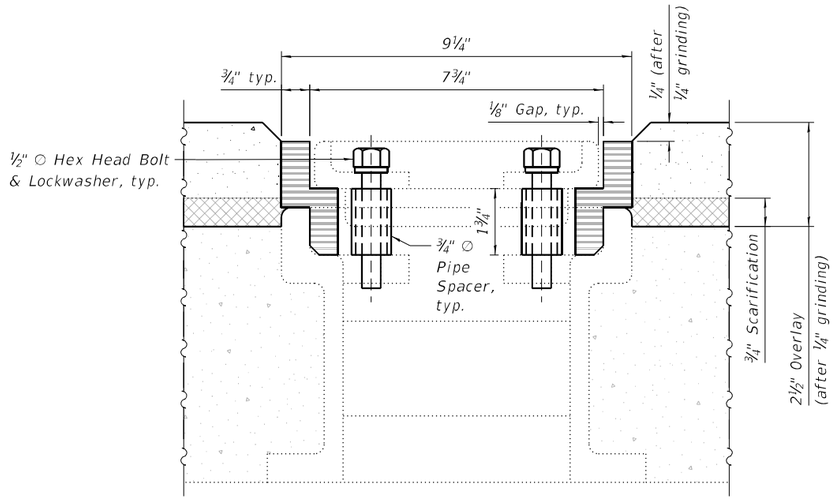
ITEM	UNIT	TOTAL
Approach Slab Repair (Full Depth)	Sq. Yd.	17
Approach Slab Repair (Partial Depth)	Sq. Yd.	17
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1



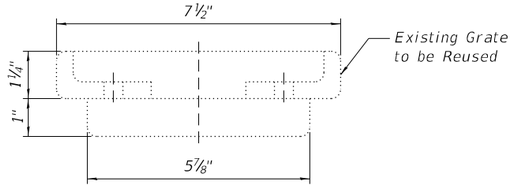
PLAN – SCUPPER ADJUSTMENT RING



SECTION A-A

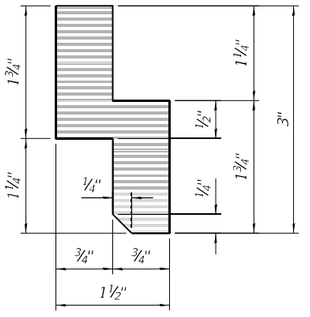


SECTION B-B



SECTION C-C

(Bolts Not Shown for Clarity)



SCUPPER ADJUSTMENT RING

NOTES:

1. All structural steel shall be AASHTO M270 Grade 36. The scupper adjustment ring and 3/4" ∅ pipe sleeve spacers shall be galvanized.
2. Bolts shall be 1/2" ∅, AASHTO M164 Type 1, mechanically galvanized.
3. The contractor shall ensure that no damage is done to existing grates to be reused.
4. Shop plans for proposed scupper adjustment rings shall be submitted for approval prior to fabrication.
5. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, fabricate and install scupper adjustment rings, and reinstall grates is included in the cost per unit Each for Drainage Scuppers to be Adjusted.
6. See Sheet 1 of 6 for Scupper locations.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage Scuppers to be Adjusted	Each	20

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER ADJUSTMENT RING DETAIL
STRUCTURE NO. 022-0220
SHEET 5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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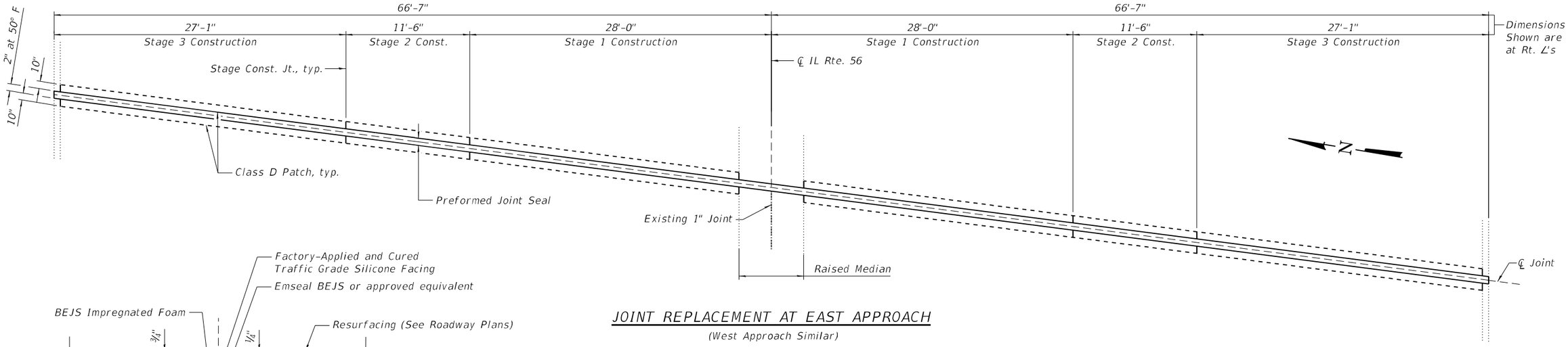
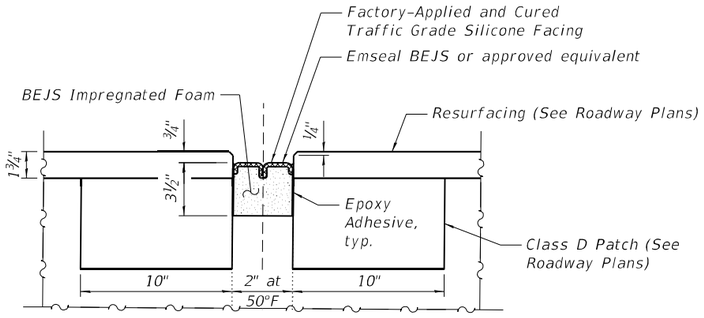
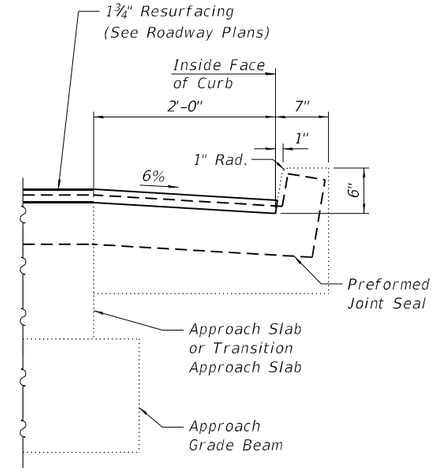


JOINT REPLACEMENT AT EAST APPROACH

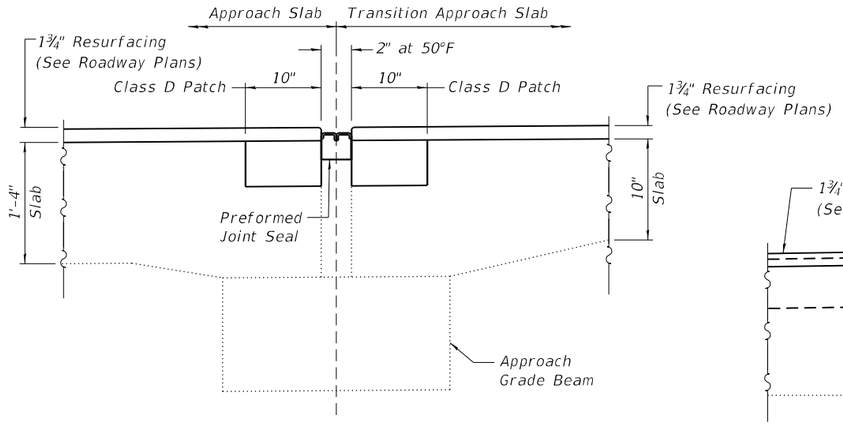
(West Approach Similar)



PREFORMED BRIDGE JOINT SEAL

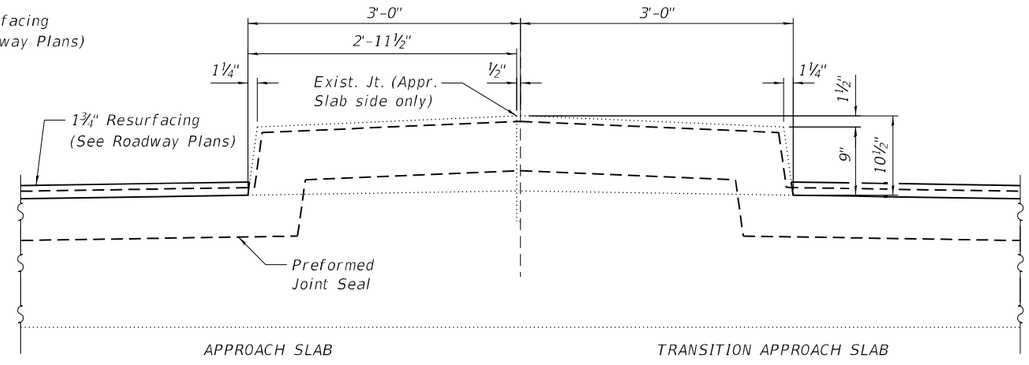


SECTION THRU CURB AT APPROACH



SECTION THRU JOINT AT APPROACH

(Showing Proposed; Dimensions at right angles)



SECTION THRU MEDIAN AT APPROACH

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Seal 2"	Foot	273

Notes:
Existing joint removal included in the cost of Preformed Joint Seal 2". Silicone Joint Sealer is not allowed.

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Springfield, Illinois

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
STRUCTURE NO. 022-0220
SHEET 6 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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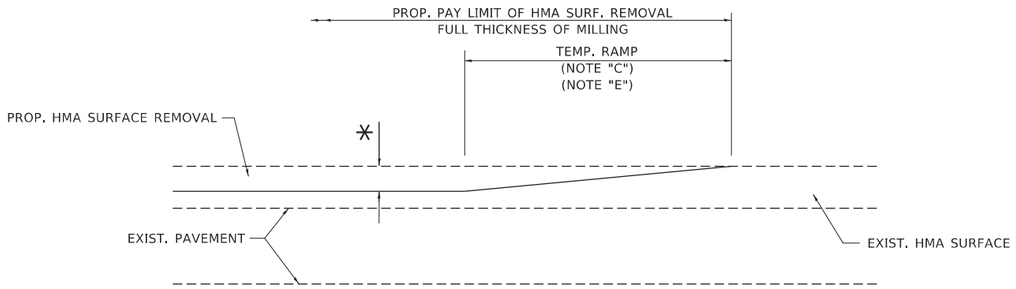
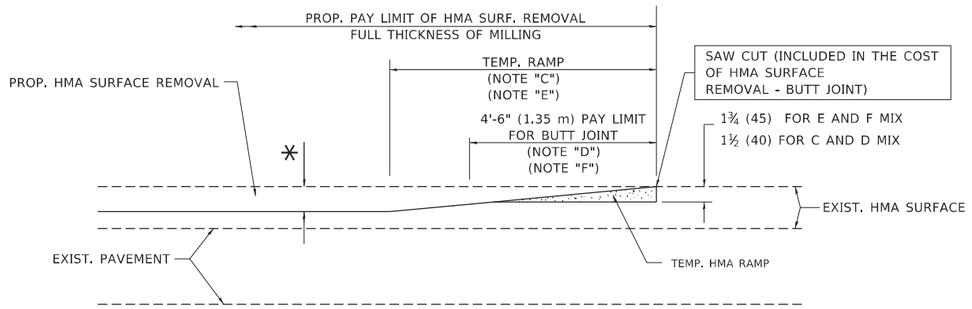
	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

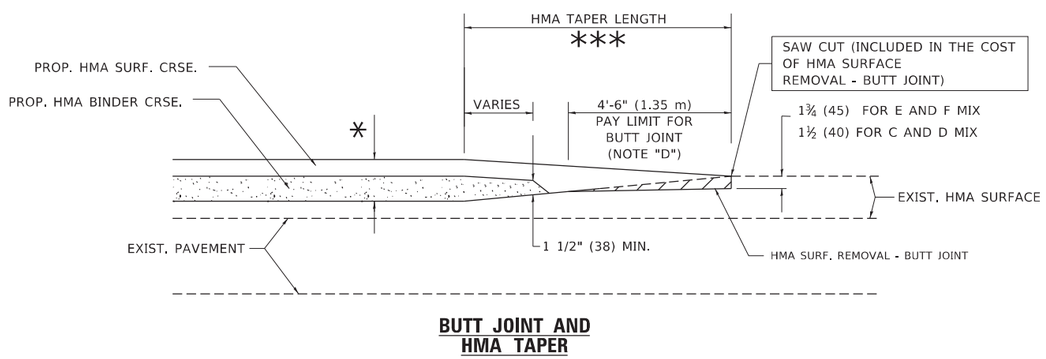


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

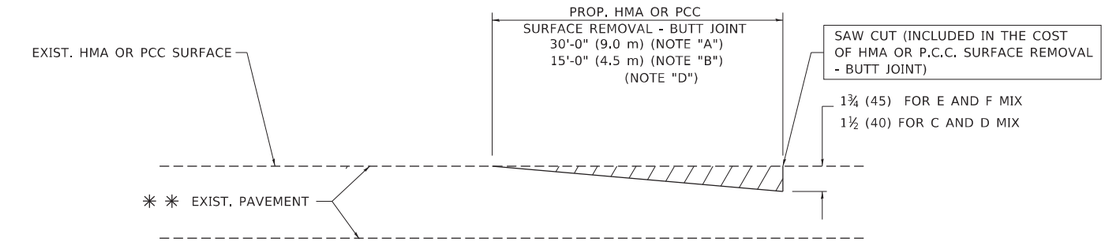
OPTION 2

TYPICAL TEMPORARY RAMP

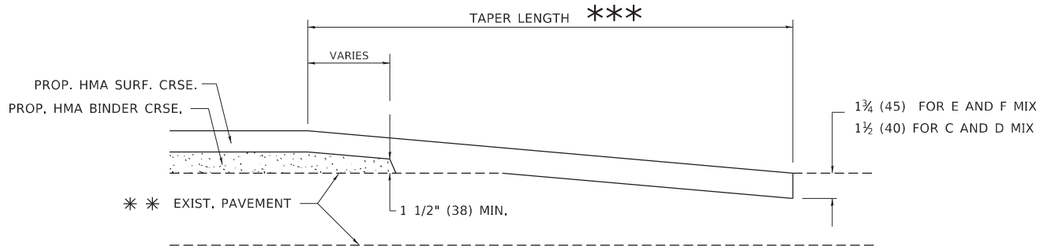


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

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PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	98
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	ILLINOIS FED. AID PROJECT			

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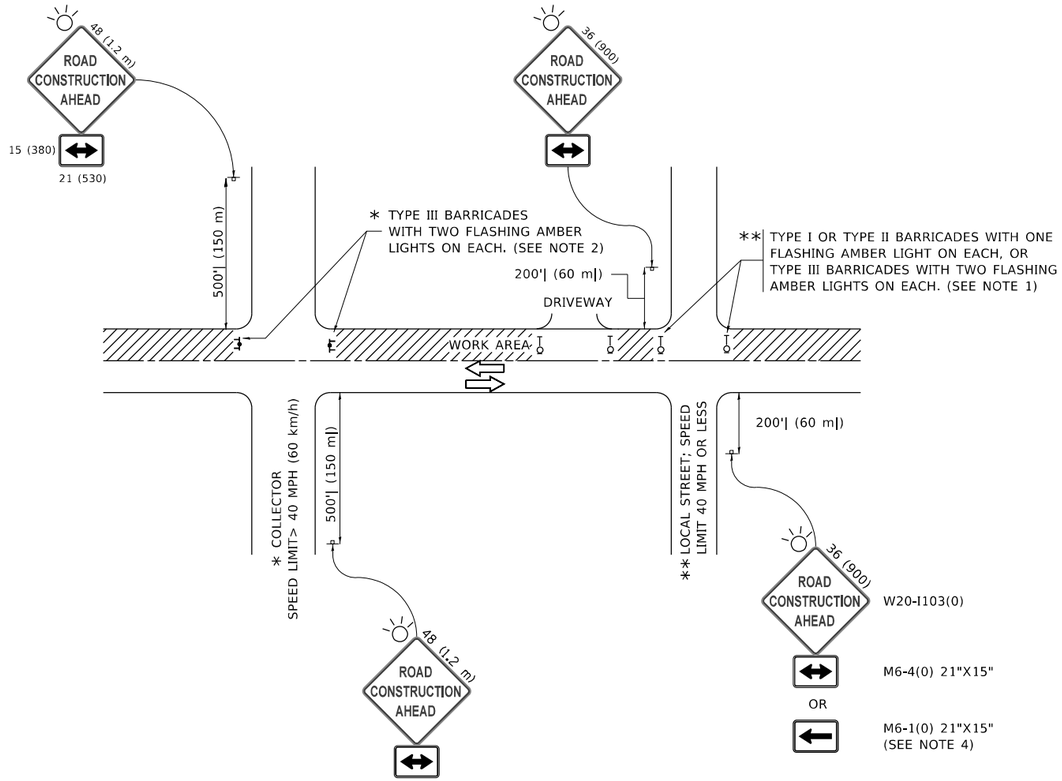

NOTES:

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 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. 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.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

USER NAME = footem}	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	99
	TC-10	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

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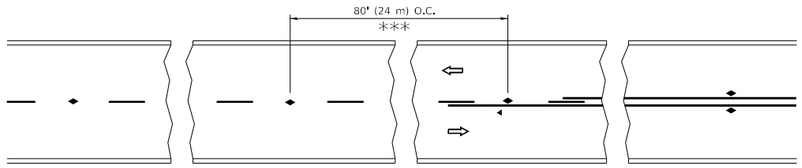
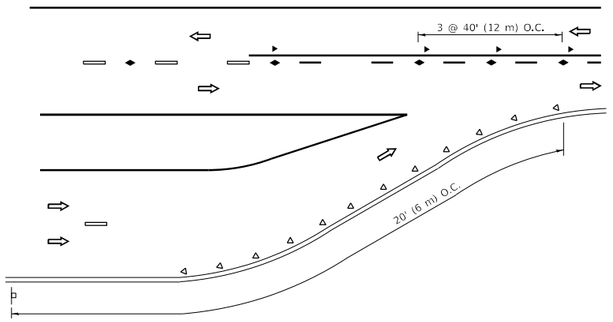


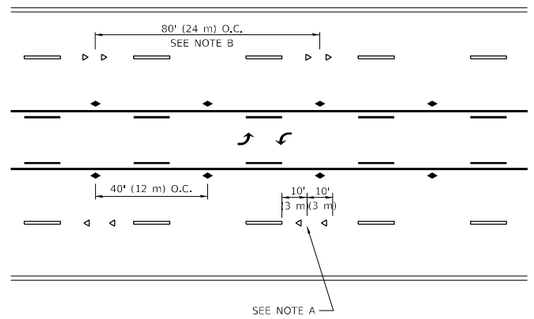
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

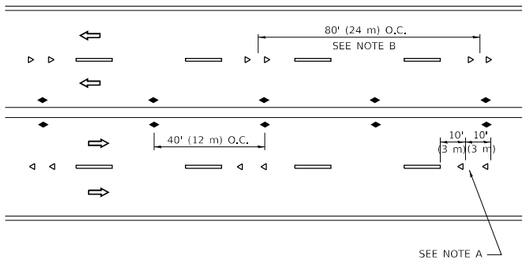
SEE FIGURE 3B-14 MUTCD



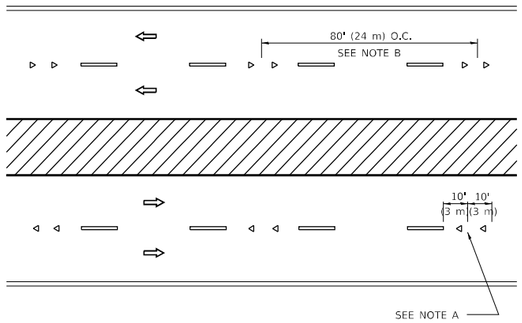
LANE REDUCTION TRANSITION



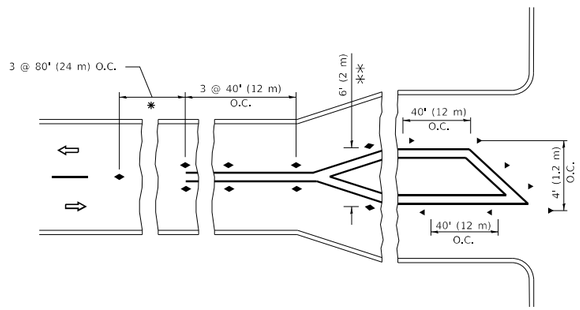
TWO–WAY LEFT TURN

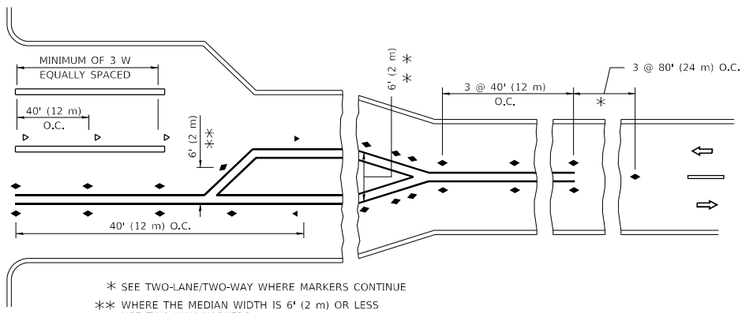


MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED





* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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

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	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09	
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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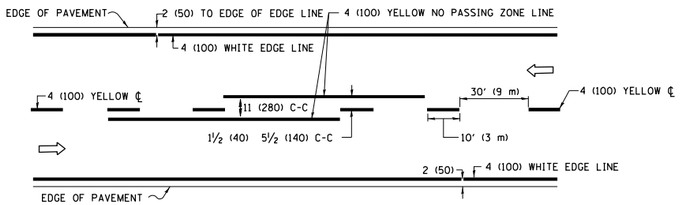
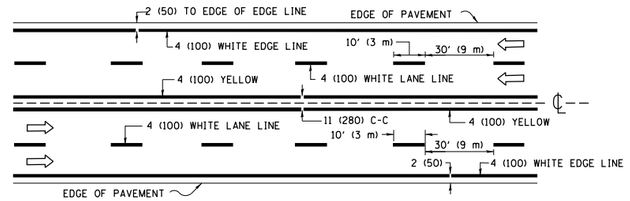
	TC-11	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

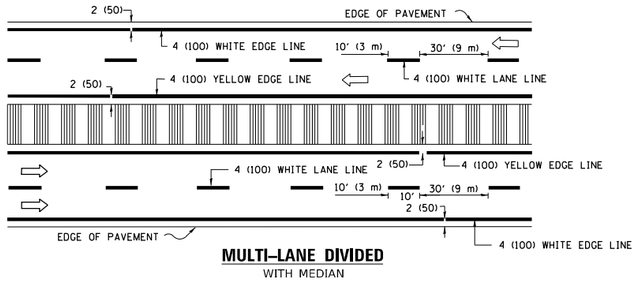
tc11.dgn 3/4/2019 10:29:08 AM User: footemj



2–LANE ROADWAY

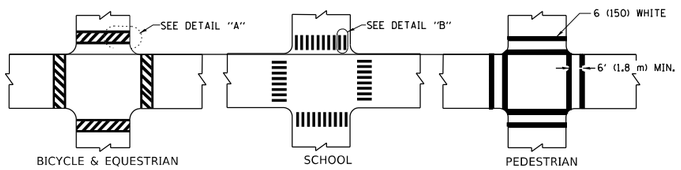


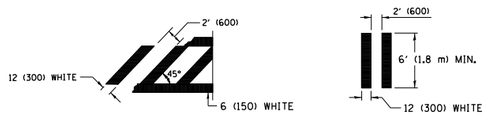
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

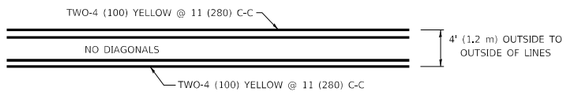




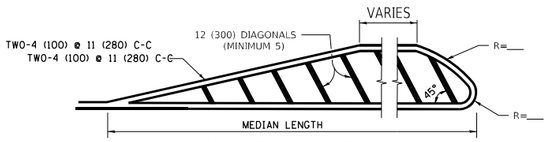
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



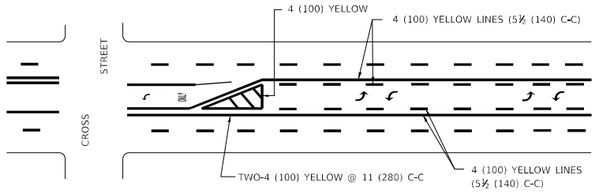
4' (1.2 m) WIDE MEDIANS ONLY



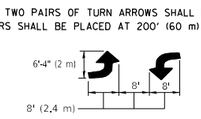
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

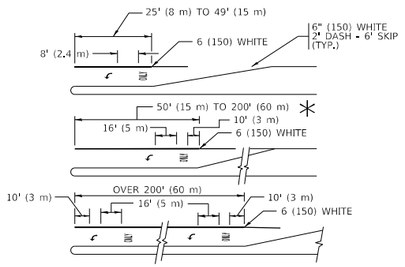


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

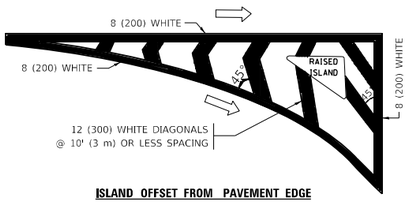


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

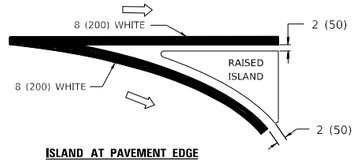
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

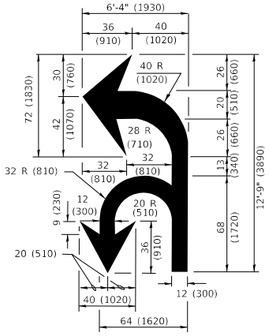


ISLAND OFFSET FROM PAVEMENT EDGE

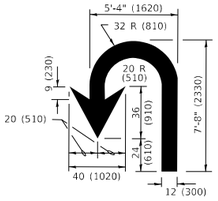


ISLAND AT PAVEMENT EDGE

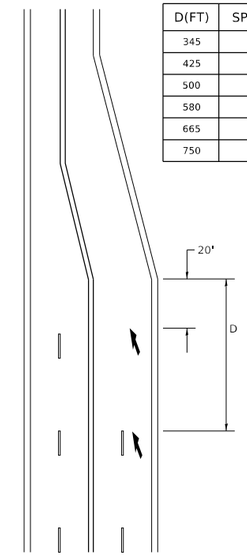
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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 MEDIANS IN YELLOW
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" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

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PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	101
	TC–13	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

tc13.dgn 3/4/2019 10:34:37 AM User=footemj

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

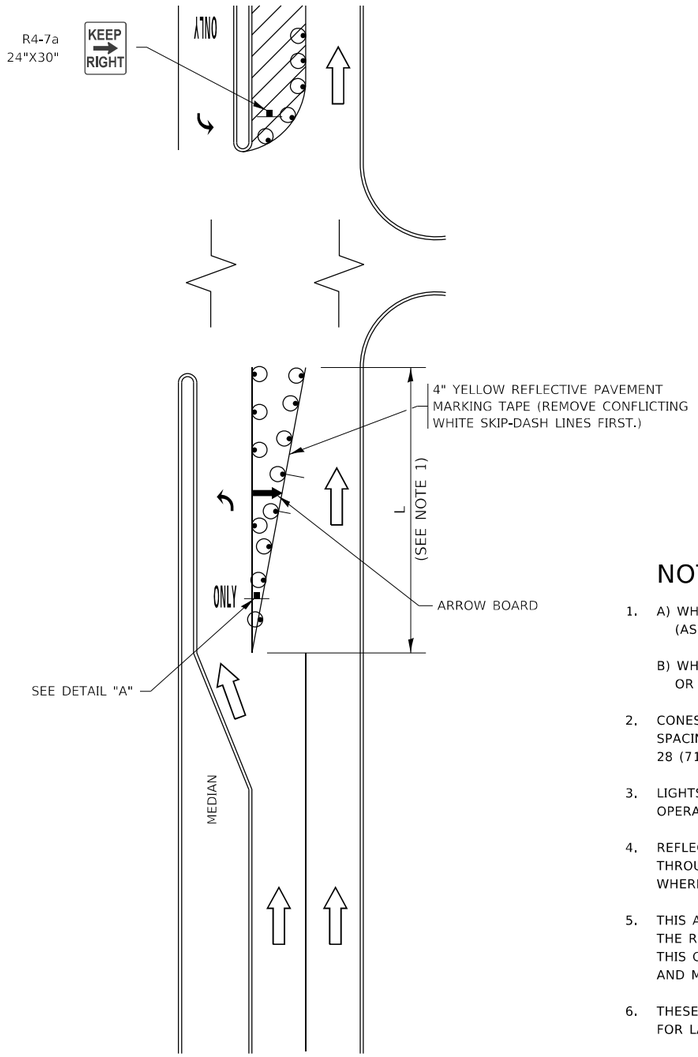


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. 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.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. 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-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

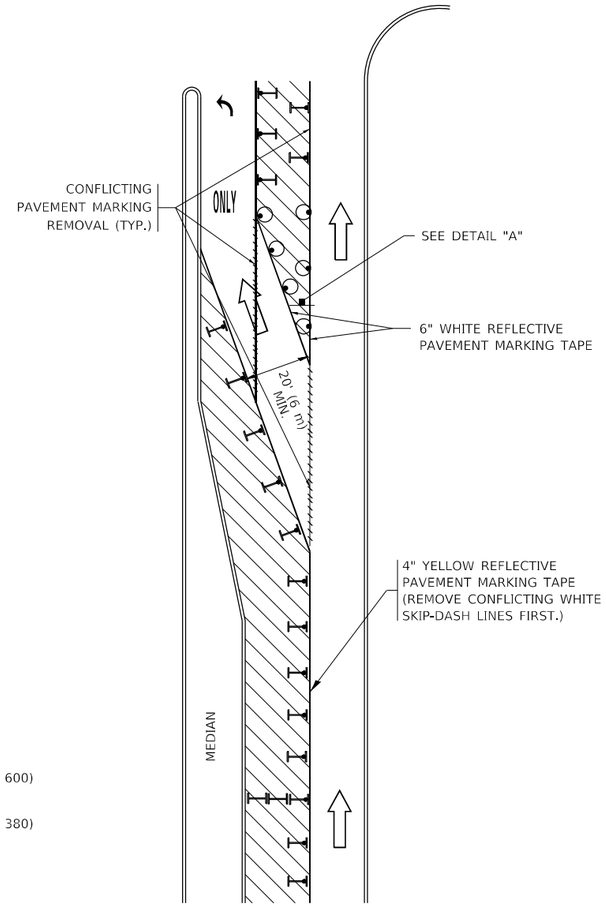
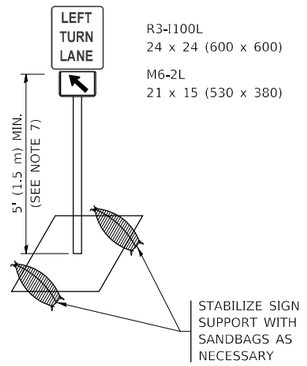


FIGURE 2



DETAIL A

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

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PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 3/4/2019	DATE - 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 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	102
	TC-14	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

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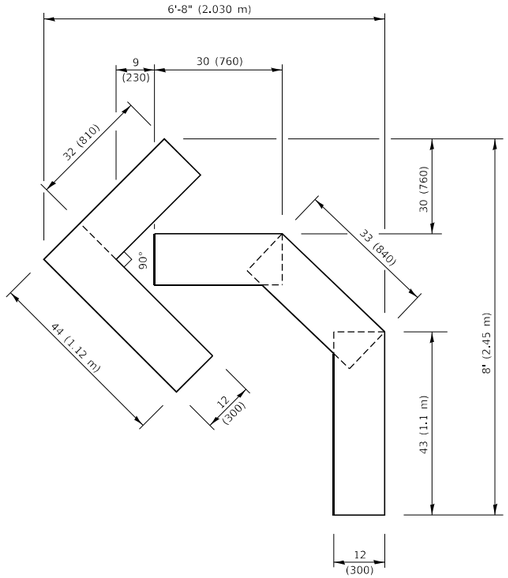
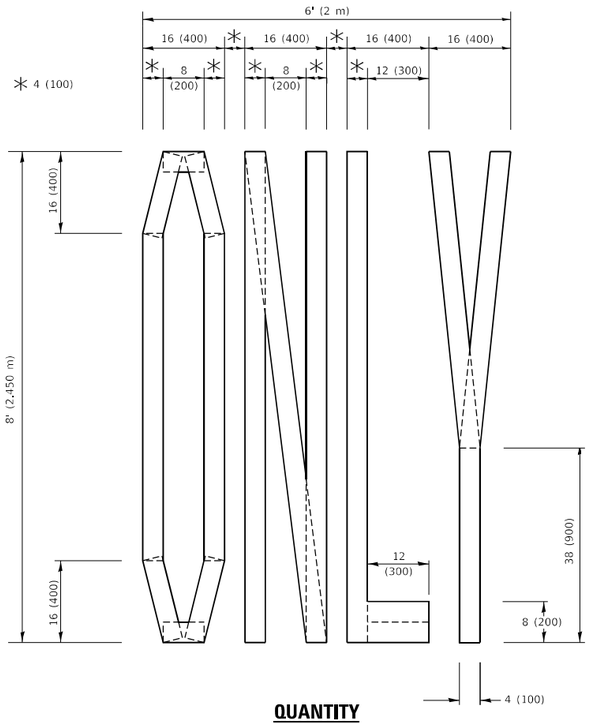


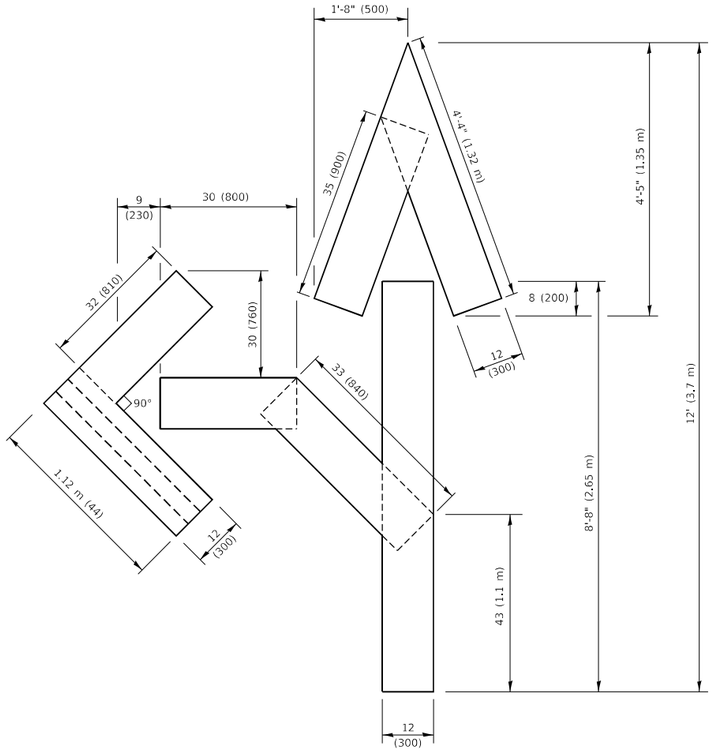
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

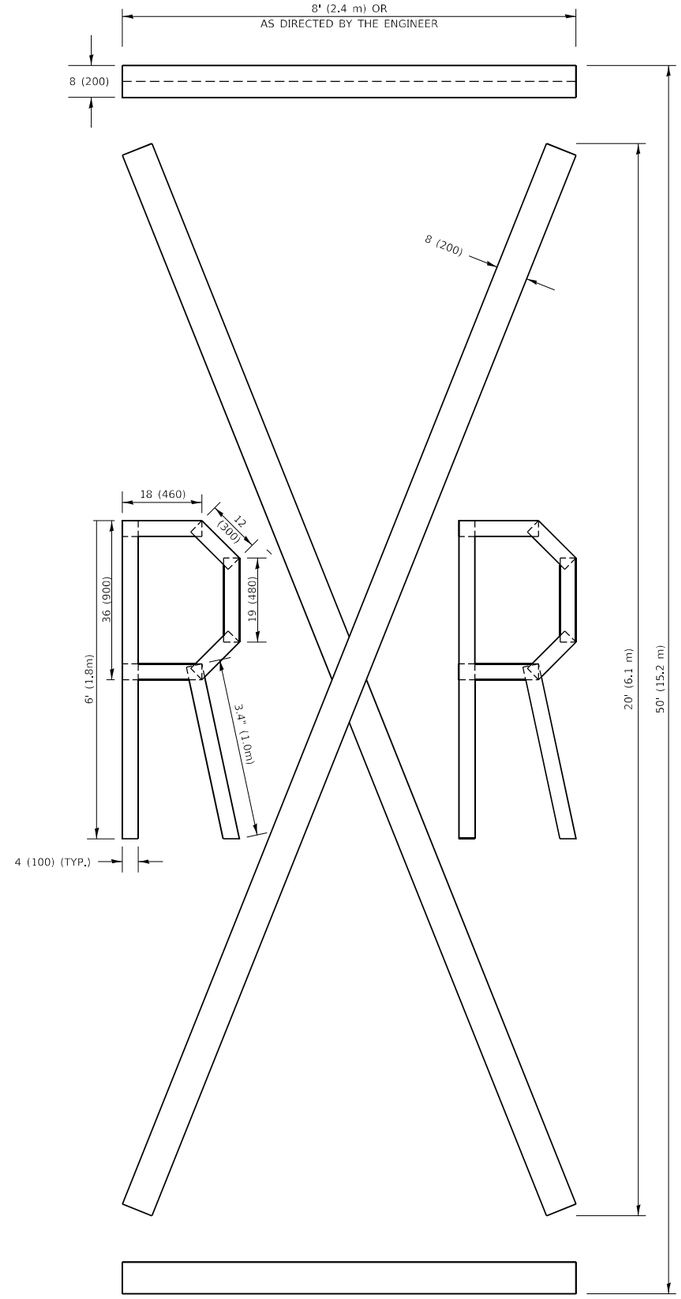


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	
	DRAWN -	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

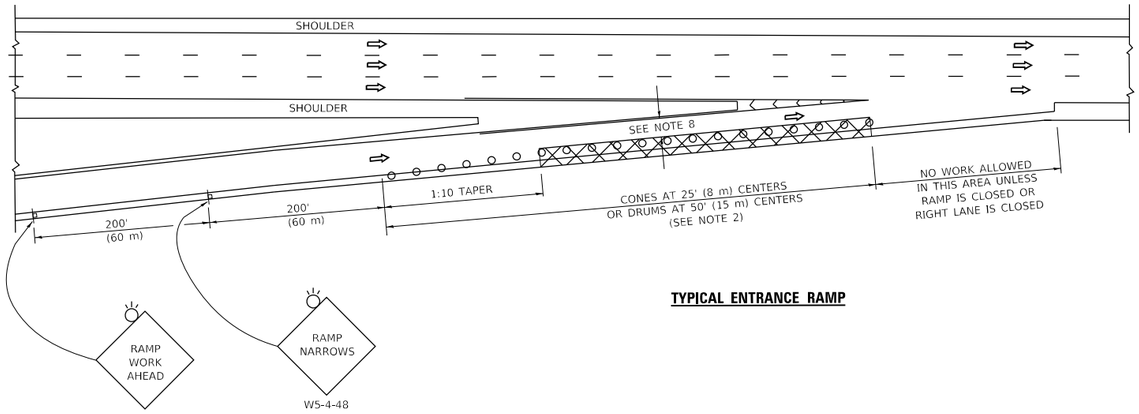
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	103
	TC-16	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

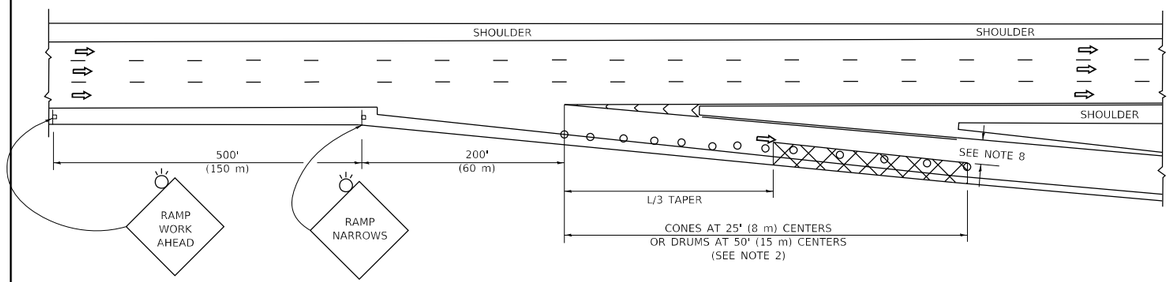
MODEL: Default
FILE NAME: pw:\\IL084EIDUNTEG.Illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist1Std22x34in\CADData\CADSheetStd 16.dgn

c16.dgn 3/4/2019 10:37:35 AM User=footemj

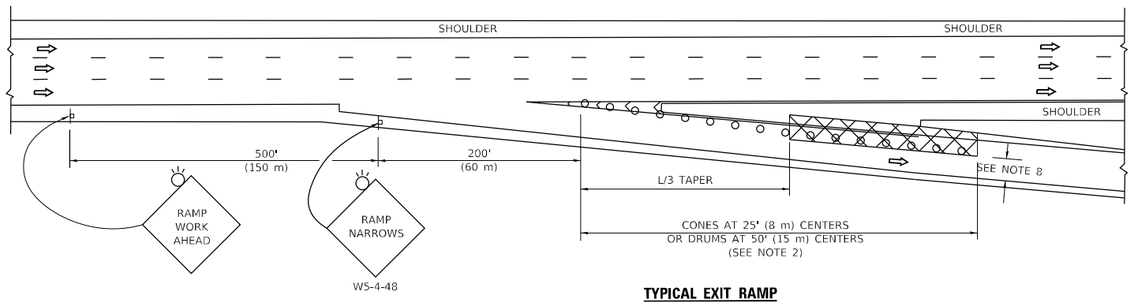
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

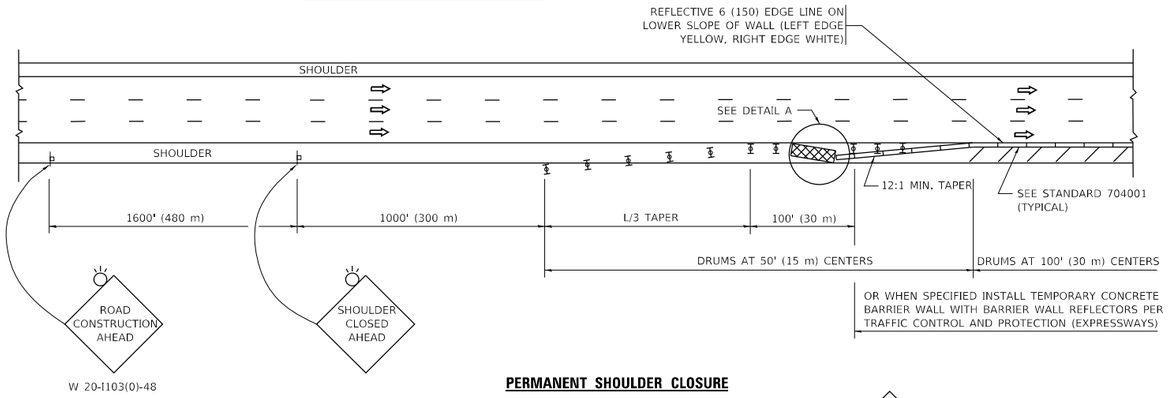


TYPICAL EXIT RAMP

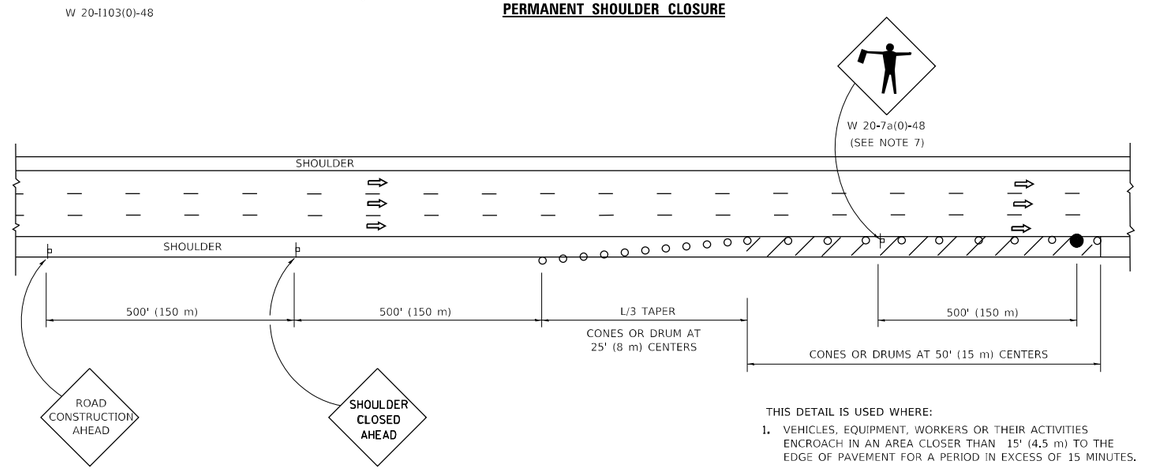


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



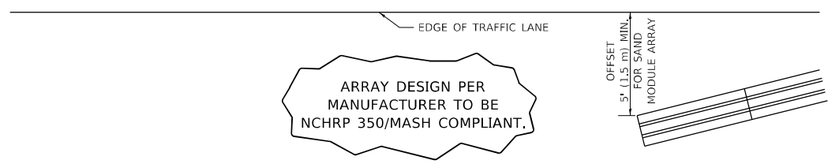
PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
45 mph (80 km/h) OR GREATER:	METRIC	ENGLISH
	L=0.65(W)(S)	L=(W)(S)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
   16' MIN. WIDTH CURVE SECTION.

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT1Documents\IDOT Offices\District 1\Projects\Dist1Std22x34\CADData\CADSheets\tc17.dgn

USER NAME = footemj	DESIGNED -	REVISED -	S.P.B. 01-07
	DRAWN - D.W.S.	REVISED -	S.P.B. 12-09
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	M.D. 06-13
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED -	M.D. 01-18

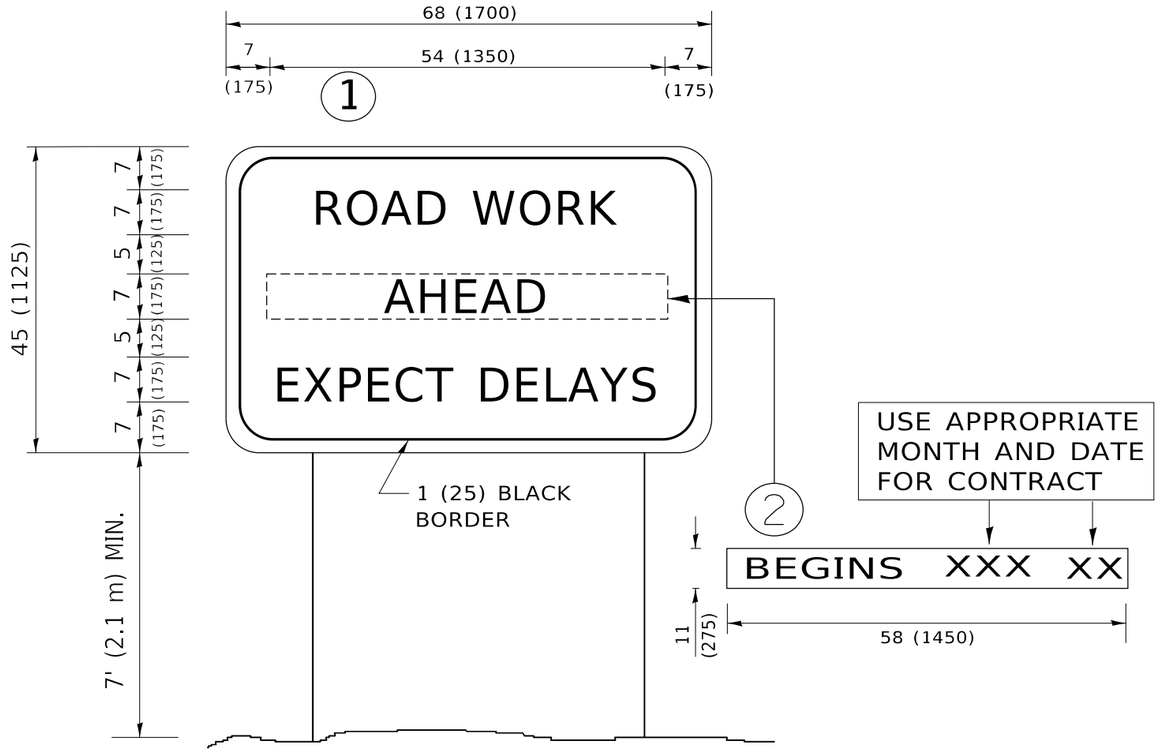
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	104
	TC-17	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			

tc17.dgn 3/4/2019 10:41:43 AM User=footemj



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.

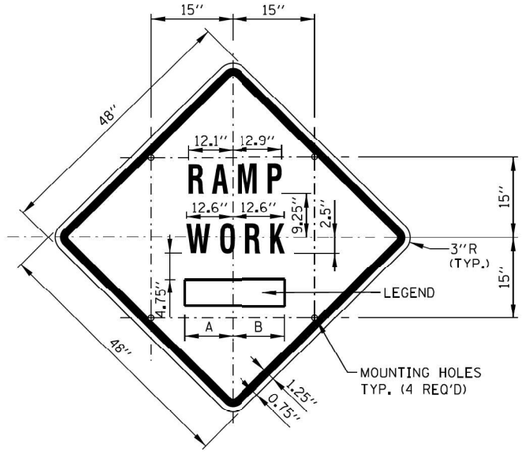
USER NAME = footemj	DESIGNED -	REVISED -	R. MIRS 09-15-97
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED -	C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

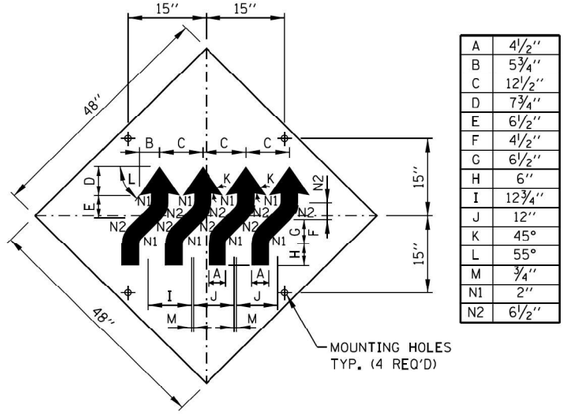
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	105
	TC–22	CONTRACT NO. 62M34		
	ILLINOIS FED. AID PROJECT			



SIGN NO.	LEGEND	A	B
TS-2A	AHEAD	15.50''	15.50''
TS-2B	500 FT	14.25''	15.13''
TS-2C	1000 FT	14.88'' ∠2	15.75'' ∠2
TS-2D	1500 FT	14.88'' ∠2	15.75'' ∠2
TS-2E	½ MILE	15.75'' ∠3	15.75'' ∠3
TS-2F	1 MILE	13.06''	13.06''

SIGN TS-2 (O)

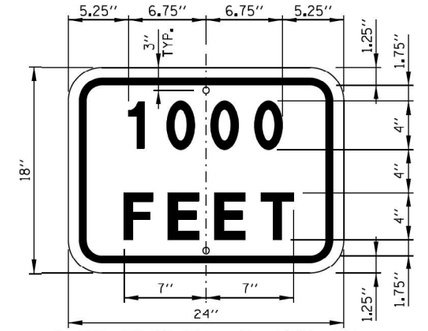
COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
BORDER AND SYMBOL - BLACK
SIZE: 48''x48''
LETTERING: 7'' FEDERAL SERIES D
MOUNTING HOLES: 7/16'' DIA., 4 HOLES SPACED AS SHOWN



A	4½''
B	5¾''
C	12½''
D	7¾''
E	6½''
F	4½''
G	6½''
H	6''
I	12¾''
J	12''
K	45°
L	55°
M	¾''
N1	2''
N2	6½''

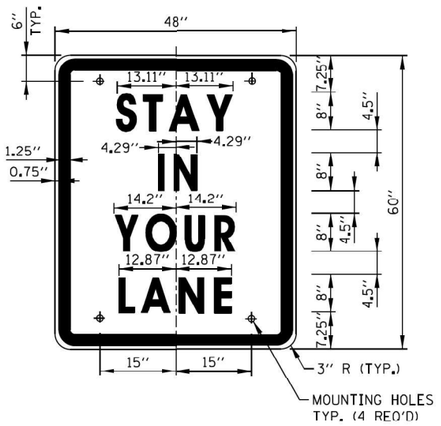
SIGN W1-4dR (O)

COLOR: BACKGROUND-FLUORESCENT ORANGE (O)
TYPE A REFLECTIVE
SHEETING PER STANDARD
SPECIFICATIONS (* A)
BORDER AND LETTERS-BLACK
SIZE: 48''x48''
MOUNTING HOLES: 7/16'' DIA., 4 HOLES SPACED AS SHOWN.



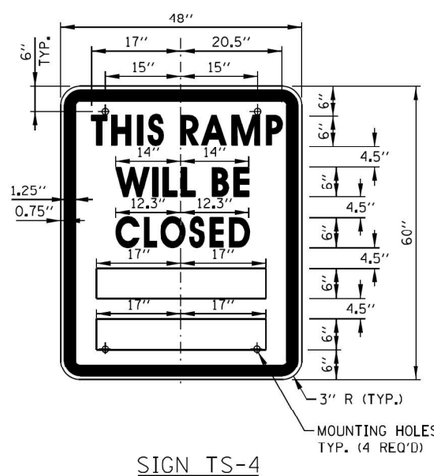
SUPPLEMENTAL PLATE (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
BORDER AND LETTTERS - BLACK
SIZE: 24''x18''
LETTERING: 4'' FEDERAL SERIES D
MOUNTING HOLES: 7/16'' DIA., 2 HOLES SPACED AS SHOWN



SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
BORDER AND LETTERS - BLACK
SIZE: 48''x60''
LETTERING: LEGEND - 8'' FEDERAL SERIES D
MOUNTING HOLES: 7/16'' DIA., 4 HOLES, SPACED AS SHOWN

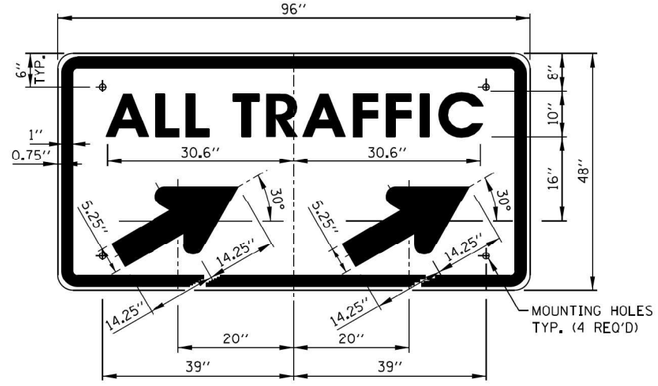


SIGN TS-4

COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)
BORDER AND LETTERS - BLACK
SIZE: 48''x60''
LETTERING: LEGEND - 6'' FEDERAL SERIES C
MOUNTING HOLES: 7/16'' DIA., 4 HOLES, SPACED AS SHOWN

RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.



SIGN TS-5a & TS-5b

COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)
BORDER AND LETTERS - BLACK
ARROW - BLACK
SIZE: 96''x48''
LETTERING: 10'' FEDERAL SERIES D
MOUNTING HOLES: 7/16'' DIA., 4 HOLES, SPACED AS SHOWN
NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE LEGEND "⬋" FOR "⬋⬋" FOR SIGN TS-5b

NOTES:

1. ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
2. SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
3. SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
   (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
   (*A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
4. DIMENSIONS INDICATED THUS ∠ ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:
   ∠1 SPACING REDUCED BY 25%
   ∠2 SPACING REDUCED BY 40%
   ∠3 SPACING REDUCED BY 50%

Paul Kovacs
APPROVED ..... DATE 5-1-2009
CHIEF ENGINEERING OFFICER

DATE	REVISIONS
11-01-12	DELETED SIGN TS-1
03-31-14	REVISED FINE SIGN NUMBER AND
	ADDED LED SPEED LIMIT DISPLAY
3-11-2015	REVISED NOTES
3-31-2017	REVISED END WZSL SIGN COLOR
3-01-2019	REMOVED STANDARD IDOT SIGNS,
	REVISED WZSL ASSEMBLY, ADDED WZSL
	TRANSITION

Illinois Tollway

CONSTRUCTION SIGNS

STANDARD E1-07

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

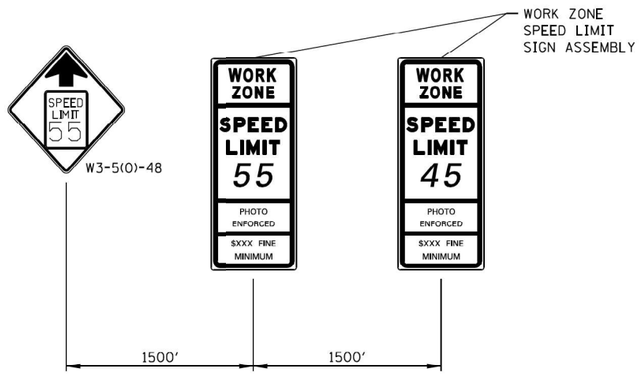
USER NAME = 14nha	DESIGNED - NH	REVISED -	
	DRAWN - NH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -	
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

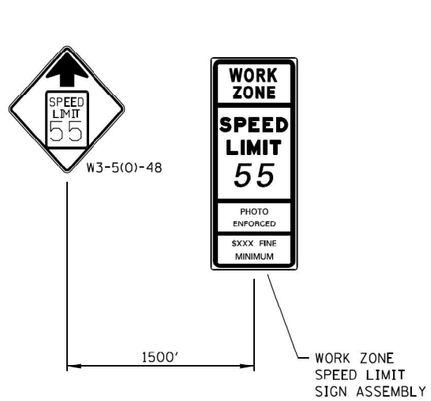
F.A.P. 365 (IL ROUTE 56) OVER I-355
ILLINOIS TOLLWAY STANDARDS

SCALE: N.T.S. | SHEET 1 OF 6 SHEETS | STA. | TO STA.

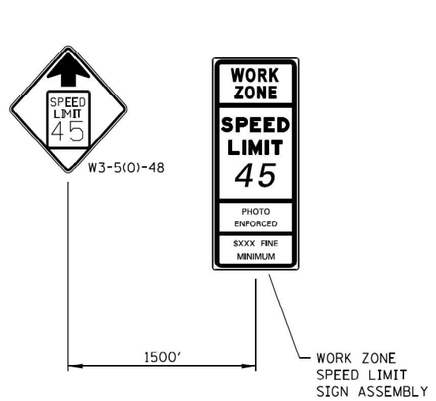
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	106
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



70 MPH TO 45 MPH

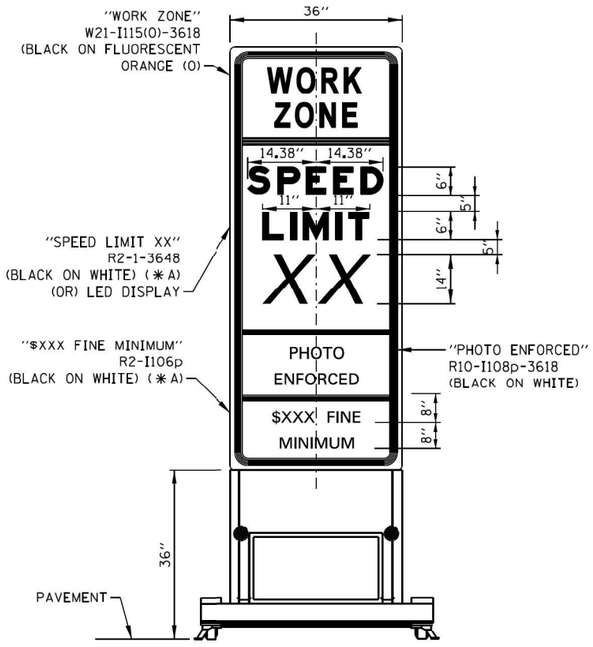


70 MPH TO 55 MPH

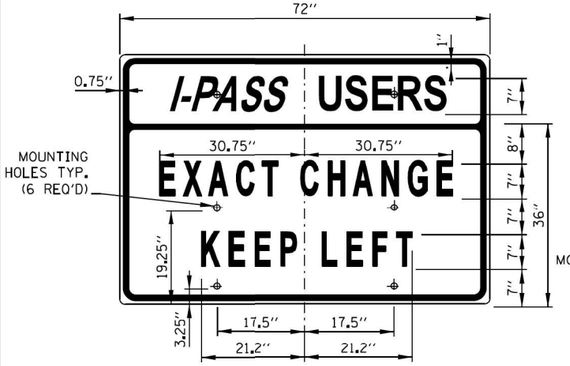


60 MPH TO 45 MPH

WORK ZONE SPEED LIMIT TRANSITION SIGNAGE

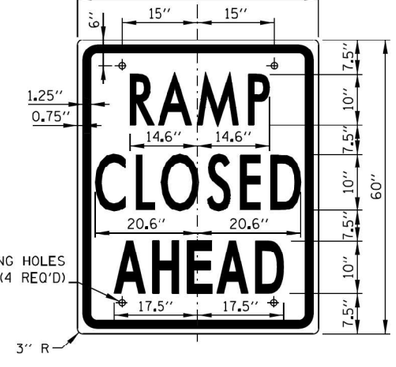


WORK ZONE SPEED LIMIT SIGN ASSEMBLY



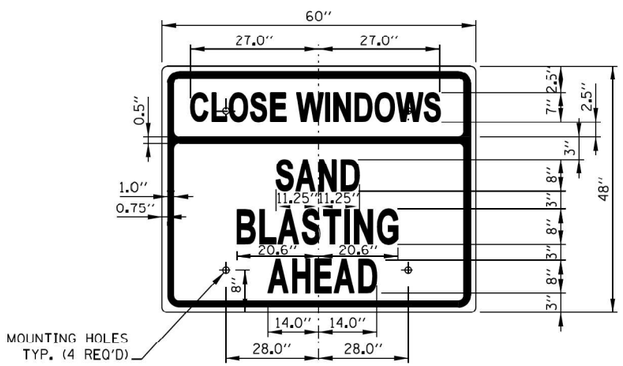
SIGN TS-7

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
BORDER AND LETTTERS - BLACK
SIZE: 72"x36"
LETTERING: 7" FEDERAL SERIES C
MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



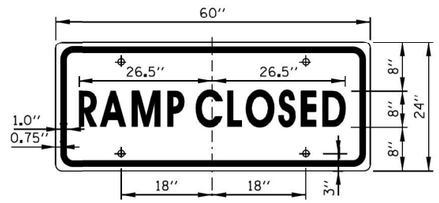
SIGN TS-9

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
BORDER AND LETTTERS - BLACK
SIZE: 48"x60"
LETTERING: 10" FEDERAL SERIES C
MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-10 (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
BORDER AND LETTTERS - BLACK
SIZE: 60"x48"
LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B
MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-6

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
BORDER AND LETTTERS - BLACK
SIZE: 60"x24"
LETTERING: 8" FEDERAL SERIES C
MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN

Paul Kovacs
APPROVED ..... DATE 5-1-2009
CHIEF ENGINEERING OFFICER

NOTE:
SEE SHEET 1 OF THIS SERIES FOR NOTES.

SHEET 2 OF 2

Illinois Tollway

CONSTRUCTION SIGNS

STANDARD E1-07

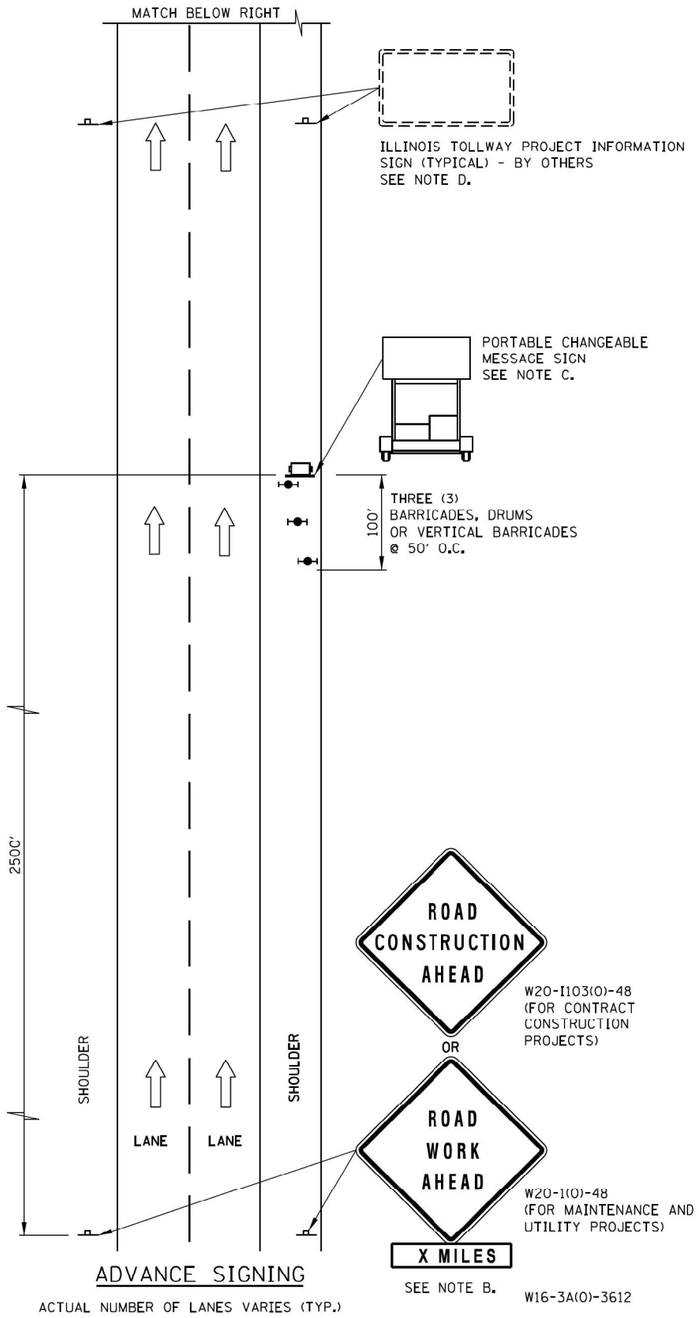
LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - NH	REVISED -
		DRAWN - NH	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
ILLINOIS TOLLWAY STANDARDS

SCALE: N.T.S. | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	107
		CONTRACT NO. 62M34		
		ILLINOIS FED. AID PROJECT		



ADVANCE SIGNING

ACTUAL NUMBER OF LANES VARIES (TYP.)

ADVANCE SIGNING NOTES:

A. THE ADVANCE SIGNING SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.

B. THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3a SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.

C. THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED" / "x MILES AHEAD", "LEFT LANE(S) CLOSED" / "x MILES AHEAD", "LANE(S) SHIFT" / "x MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.

D. THE ILLINOIS TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE ILLINOIS TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED
- CHECK BARRICADE
- TRUCK MOUNTED ATTENUATOR

Paul Kovacs
APPROVED . . . . . DATE . 5-1-2009
CHIEF ENGINEERING OFFICER

DATE	REVISIONS
3-31-2017	ADDED TAPER RATE TABLE
3-01-2019	REARRANGED DETAILS, REVISED NOTE 17, ADDED NOTES 18 & 19, ADDED TMA
3-01-2020	CLARIFIED TMA REQUIREMENTS, UPDATED BARRICADE LIGHT CALL-OUTS
3-01-2021	DELETED WORK ZONE PUBLIC INFORMATION SIGN.

Illinois Tollway

LANE CLOSURE DETAILS

STANDARD E2-10

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

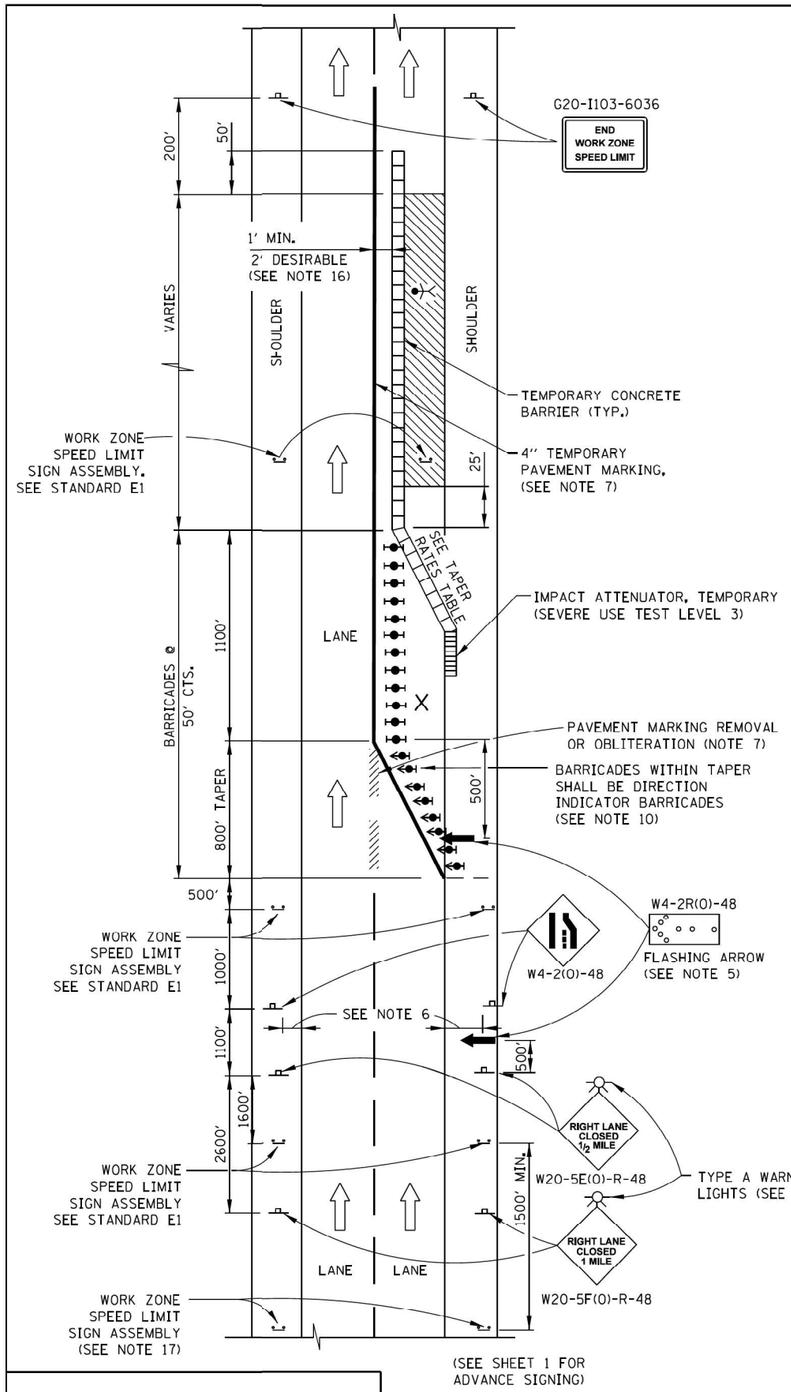
USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

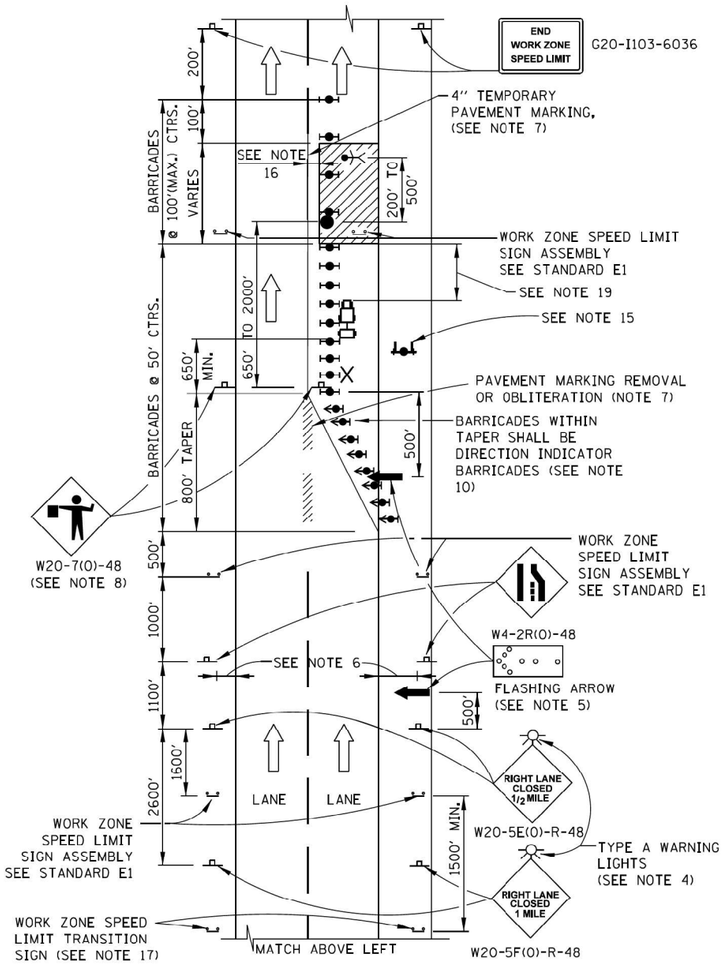
F.A.P. 365 (IL ROUTE 56) OVER I-355
ILLINOIS TOLLWAY STANDARDS

SCALE: N.T.S. | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	108
		CONTRACT NO. 62M34		
	ILLINOIS	FED. AID PROJECT		



ONE-LANE CLOSURE WITH BARRIER



ONE-LANE CLOSURE WITH BARRICADE

TAPER RATES

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED
- CHECK BARRICADE
- TRUCK MOUNTED ATTENUATOR

LANE CLOSURE NOTES:

1. IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.
2. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
3. THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.
4. FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND ½ MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT-ONLY CLOSURES, THE LIGHTS MAY BE OMITTED.
5. FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.
6. CONSTRUCTION SIGNS SHALL GENERALLY BE POST-MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE. IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.
7. PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.
8. WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE RECUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY, PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
9. WORK ZONE SPEED LIMIT SIGN ASSEMBLIES, SHALL BE PLACED ADJACENT TO THE OPEN TRAFFIC LANE(S). WORK ZONE SPEED SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
10. DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.
11. FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-0".
12. CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS. WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.
13. BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.
14. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.
15. CHECK BARRICADES SHALL BE PLACED IN EACH CLOSED LANE AND SHOULDER AT 1000 FOOT CENTERS.
16. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
17. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH. THE SPEED LIMIT SHALL BE TRANSITIONED TO THE SPECIFIED WORK ZONE SPEED LIMIT 2600 FEET BEFORE THE FIRST W4-2 SIGN.
18. WHEN NO POSITIVE PROTECTION IS PROVIDED AND WORKERS OR EQUIPMENT ENCROACH WITHIN 2'-0" OR LESS FROM THE EDGE OF TRAVELED WAY, THE LANE OPEN TO TRAFFIC SHALL BE TEMPORARILY CLOSED OR SHIFTED DURING WORK ACTIVITIES.
19. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED TO EACH WORK AREA. A WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

Paul Kovacs
APPROVED ..... DATE 5-1-2009
CHIEF ENGINEERING OFFICER

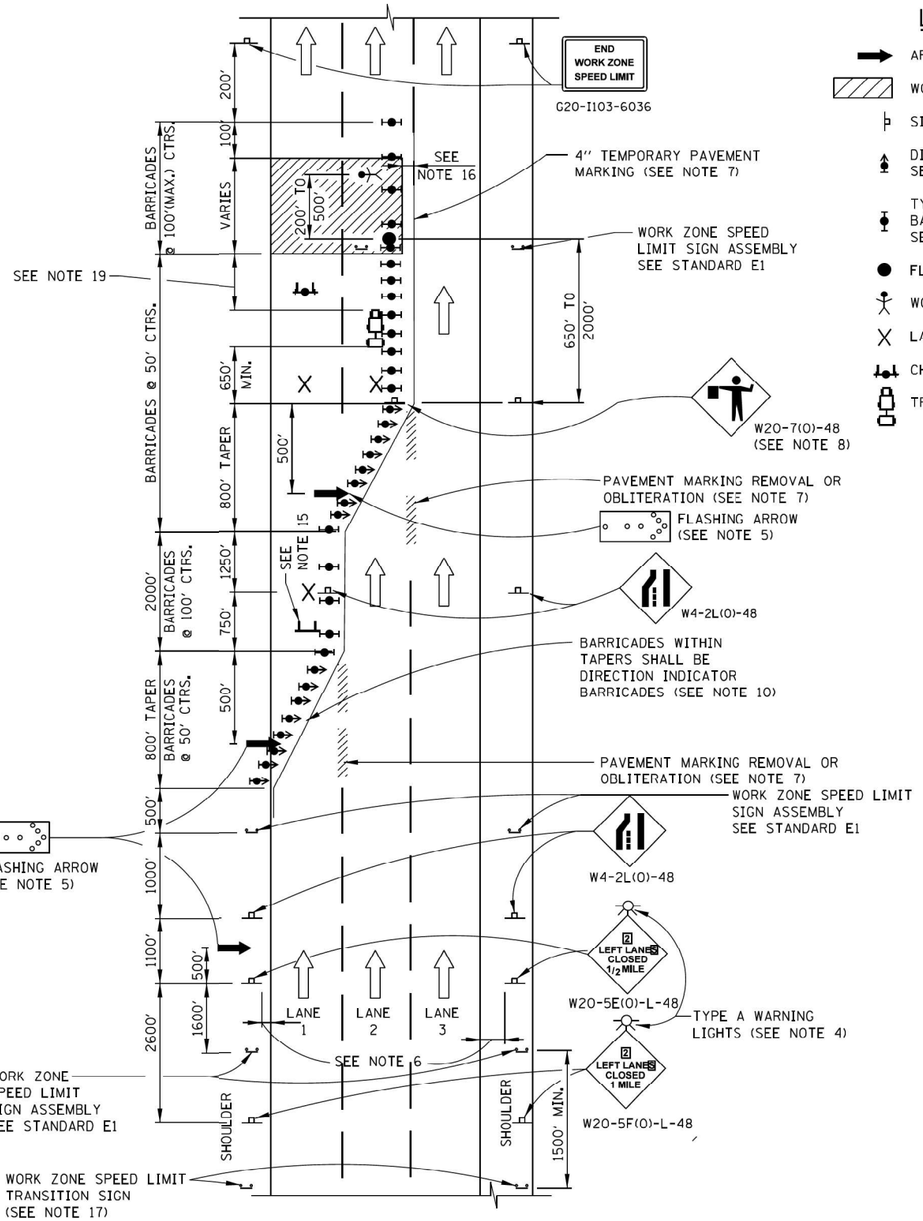
Illinois Tollway

LANE CLOSURE DETAILS

STANDARD E2-10

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = 14nha	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 365 (IL ROUTE 56) OVER I-355 ILLINOIS TOLLWAY STANDARDS
		DRAWN - NH	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED - ST	REVISED -		SCALE: N.T.S. SHEET 4 OF 6 SHEETS STA. TO STA.
	PLOT DATE = 8/11/2021	DATE - 7/2021	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	109
		CONTRACT NO. 62M34		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED
- CHECK BARRICADE
- TRUCK MOUNTED ATTENUATOR

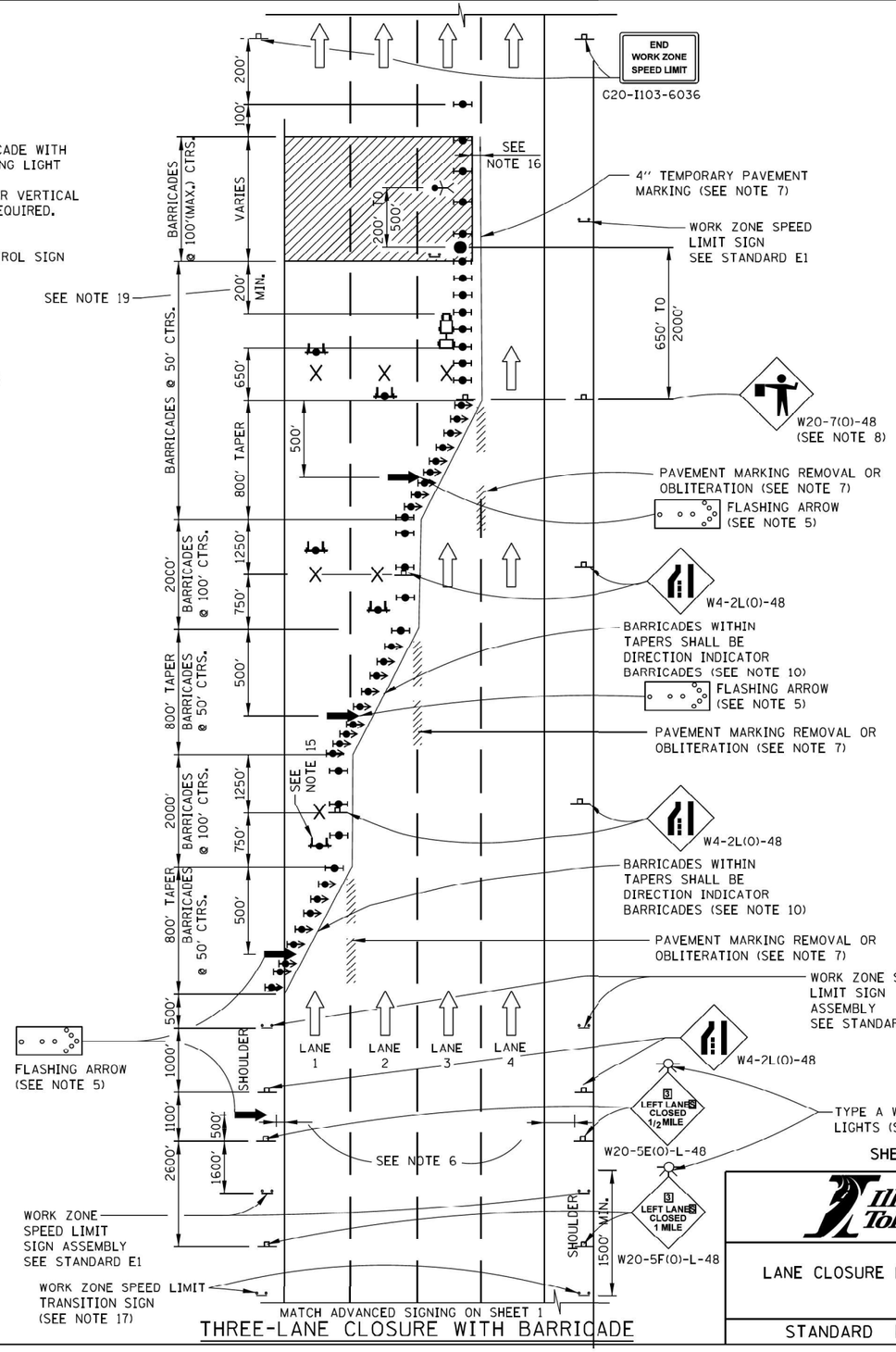
MATCH ADVANCED SIGNING ON SHEET 1

TWO-LANE CLOSURE WITH BARRICADE

ACTUAL NUMBER OF LANES VARIES (TYP.)

APPROVED Paul Kovacs DATE 5-1-2009
CHIEF ENGINEERING OFFICER

SEE SHEET 1 IN THIS SERIES FOR NOTES



SHEET 3 OF 3

Illinois Tollway

LANE CLOSURE DETAILS

STANDARD E2-10

MATCH ADVANCED SIGNING ON SHEET 1

THREE-LANE CLOSURE WITH BARRICADE

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F.A.P. 365 (IL ROUTE 56) OVER I-355
ILLINOIS TOLLWAY STANDARDS

SCALE: N.T.S. | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	110
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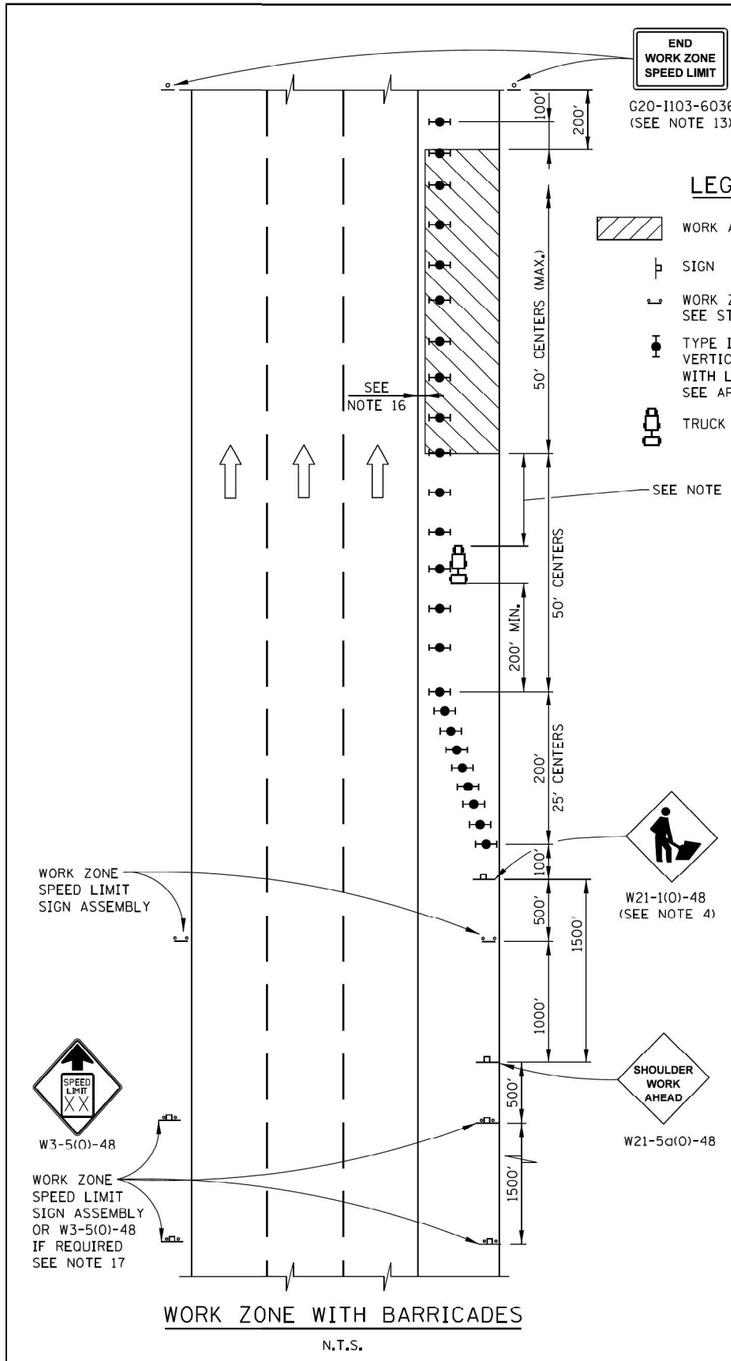
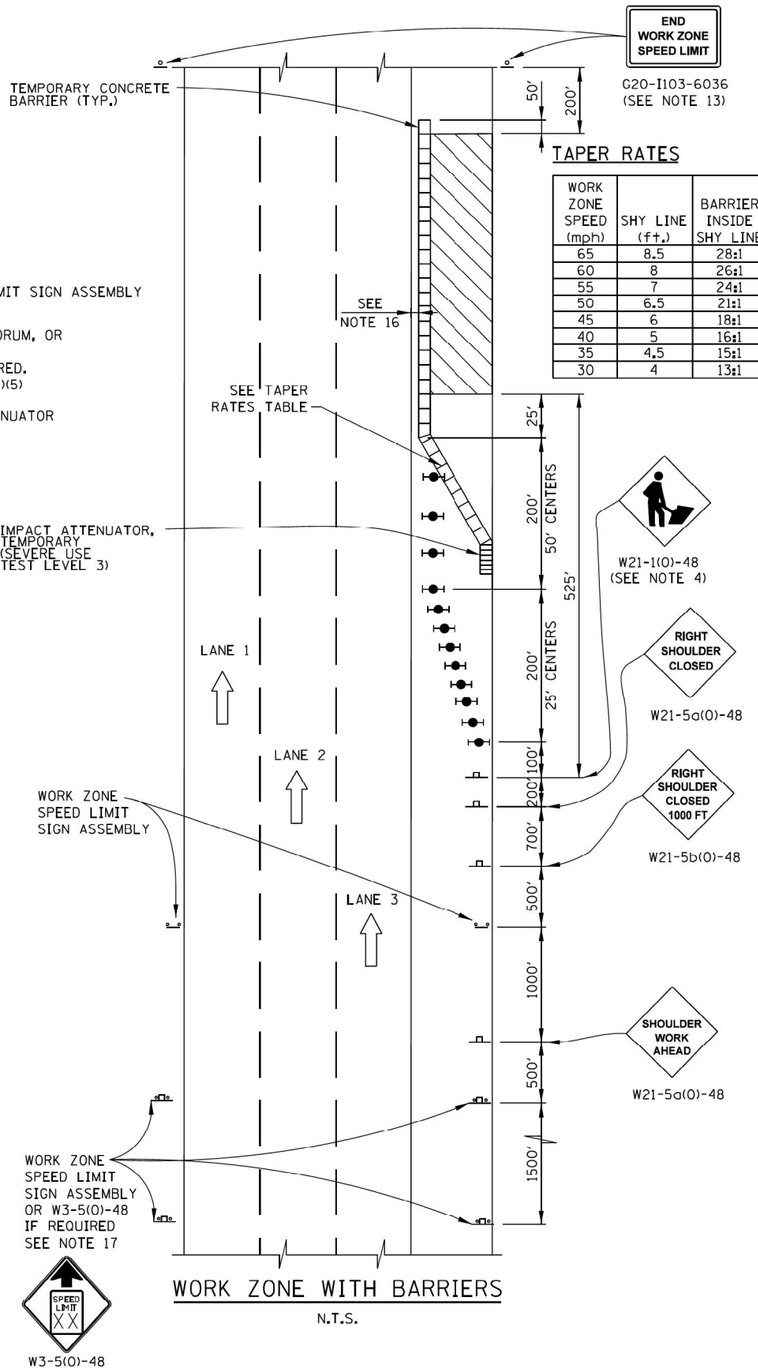


LEGEND

- WORK AREA
- SIGN
- WORK ZONE SPEED LIMIT SIGN ASSEMBLY SEE STANDARD E1
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- TRUCK MOUNTED ATTENUATOR

WORK ZONE WITH BARRICADES

N.T.S.



TAPER RATES

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
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45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

WORK ZONE WITH BARRIERS

N.T.S.

GENERAL NOTES:

1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II SHALL BE USED. SEE ARTICLE 701.05(a)(5) FOR BARRICADE LIGHT REQUIRMENTS
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS REMOVED.
12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
16. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
17. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH.
18. IN WORK ZONES WITH NO PROSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED FOR EACH WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

Paul Kovacs
APPROVED ..... DATE 5-1-2009
CHIEF ENGINEERING OFFICER

DATE	REVISIONS
3-31-14	REVISED WORKER SIGN NUMBERS PER "MUTCD" AND REVISED NOTES.
3-11-2015	REVISED NOTES
3-31-2016	ADD WORK ZONE WITH BARRIERS.
3-31-2017	ADDED TAPER RATE TABLE.
3-01-2019	DELETED W21-1a, ADJUSTED SIGN SPACING, ADDED TMA, REVISED NOTES
3-01-2020	CLARIFIED TMA REQUIREMENTS & UPDATED BARRICADE LIGHT REQUIREMENTS
3-01-2021	DELETED WORK ZONE PUBLIC INFORMATION SIGN

Illinois Tollway

SHOULDER CLOSURE DETAILS

STANDARD E3-09

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = 14nha	DESIGNED - NH	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 365 (IL ROUTE 56) OVER I-355
ILLINOIS TOLLWAY STANDARDS

SCALE: N.T.S. | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-179-BR	DUPAGE	111	111
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