08-04-2023 LETTING ITEM 013

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	1
	ILLINOIS	CONTRACT NO. 62R18		

* 157 + 1 = 158 TOTAL SHEETS

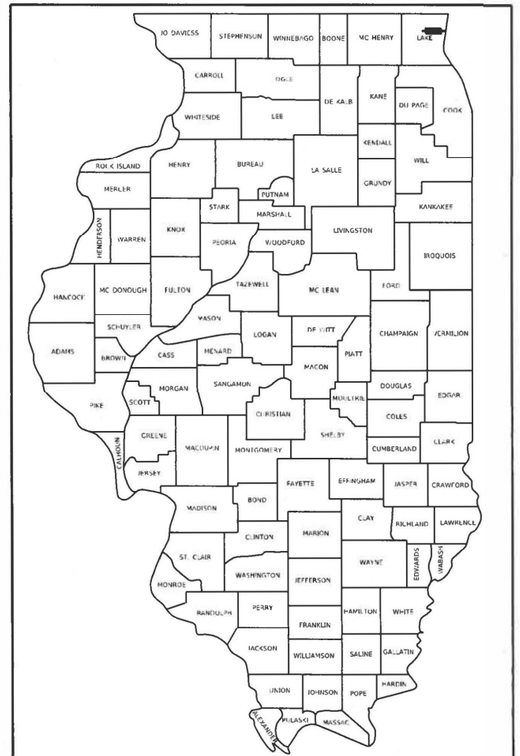
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 333: IL 120 (BELVIDERE RD.) AT O'PLAINE ROAD
SECTION: FA 333 21 INTERSECTION
PROJECT: HSIP–N6DK(011)
INTERSECTION IMPROVEMENT
LAKE COUNTY

C–91–128–22

D-91-110-22



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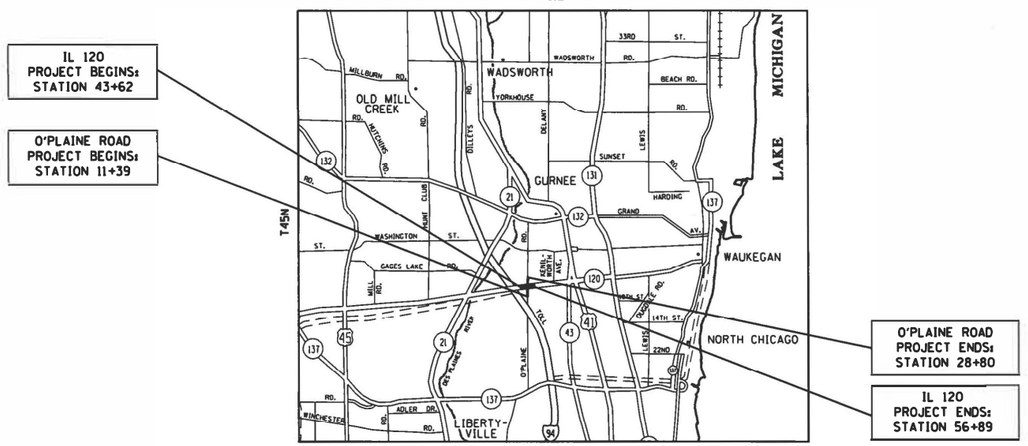
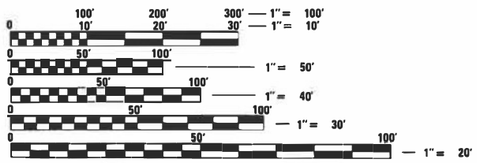


WARREN TOWNSHIP



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.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF GURNEE AND THE CITY OF WAUKEGAN

TRAFFIC DATA

IL 120 (BELVIDERE ROAD)
ADT (2021) = 31,300
POSTED SPEED LIMIT = 50 MPH

O'PLAINE ROAD
ADT (2018) = 10,300
POSTED SPEED LIMIT = 40–45 MPH

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

GROSS LENGTH = 3,068 FT. = 0.581 MILE
NET LENGTH = 3,068 FT. = 0.581 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 5 20 23
Jose Rios
REGIONAL ENGINEER

June 30, 2023
Jack A. Elston
ENGINEER OF DESIGN AND ENVIRONMENT

June 30, 2023
Steve McGraw
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705–4580
PROJECT MANAGER: J. ALAIN MIDY (847) 221–3056

CONTRACT NO. 62R18

REV-SEP

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STATE HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
202001-01	EARTH MEDIAN DITCH CHECK
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15'' THRU 84'' DIA.
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15'' THRU 72'' EQUIVALENT DIAMETER
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602401-07	PRECAST MANHOLE, TYPE A, 4' DIAMETER
602402-03	PRECAST MANHOLE, TYPE A, 5' DIAMETER
602406-11	PRECAST MANHOLE, TYPE A, 6' DIAMETER
604001-05	FRAME AND LIDS, TYPE 1
604036-03	GRATE, TYPE 8
604091-05	FRAME AND GRATE, TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-04	TYPE B GUTTER (INLET, OUTLET AND ENTRANCE)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635001-02	DELINEATORS
642001-03	SHOULDER RUMBLE STRIPS, 16 INCHES
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15'' TO 24'' FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24'' FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >=45MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >=45MPH TO 55MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >=45MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS <=40MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SUPPORT
729001-01	APPLICATIONS OF TYPE A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS

STATE HIGHWAY STANDARDS (CONTINUED)

814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-08	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	2
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

REV-SEP

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF GURNEE AND CITY OF WAUKEGAN

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

5. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

6. 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.

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

8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

9. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

11. THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, ARTERIAL TRAFFIC FIELD ENGINEER VIA E-MAIL AT FADI.SULTAN@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

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

14. FRAMES AND LIDS/GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

15. ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT

16. BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

17. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

18. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

19. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

20. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

21. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFFS GREATER THAN 24" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES AT THE END OF EACH WORKDAY. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

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

GENERAL NOTES (CONTINUED)

23. 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.

24. 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.

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

26. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGED DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS OWN EXPENSE.

27. IT SHALL BE THE CONTRACTOR'S RESPONISBLITY 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 VERIFING THE MAST ARMS LENGTHS.

28. THE EXACT LOCATION OF ALL UTILITES 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).

29. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

30. 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.

31. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, 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.

32. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

33. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR$^{5}/_{32}$ S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) and USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 of the SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

34. THE ENGINEER SHALL CONTACT THE VILLAGE REGARDING THE REMOVAL OF THE VILLAGE SIGN LOCATED AT STATION 23+14 PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES THAT MIGHT CONFLICT WITH THE SIGN.

35. THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.

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PLOT DATE = 5/15/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	3
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%	CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
	20101000	TEMPORARY FENCE	FOOT	4730	4730						28000400	PERIMETER EROSION BARRIER	FOOT	4730	4730					
	20101100	TREE TRUNK PROTECTION	EACH	20	20						28000500	INLET AND PIPE PROTECTION	EACH	39	39					
	20200100	EARTH EXCAVATION	CU YD	3918	3918						30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	23	23					
	20800150	TRENCH BACKFILL	CU YD	396	396						30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	6972	6972					
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2156	2156						31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	8	8					
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2063	2063						35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	82	82					
											35501313	HOT-MIX ASPHALT BASE COURSE, 7 1/4"	SQ YD	1697	1697					
*	25000210	SEEDING, CLASS 2A	ACRE	5	5															
											35501325	HOT-MIX ASPHALT BASE COURSE, 10 1/4"	SQ YD	150	150					
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	428	428															
											35600705	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4"	SQ YD	390	390					
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	428	428															
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	428	428						35600717	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"	SQ YD	225	225					
	25100115	MULCH, METHOD 2	ACRE	7	7															
											40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9693	9693					
	25100630	EROSION CONTROL BLANKET	SQ YD	32321	32321															
											40600370	LONGITUDINAL JOINT SEALANT	FOOT	8500	8500					
	25200200	SUPPLEMENTAL WATERING	UNIT	313	313															
											40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	18	18					
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	668	668															
	28000305	TEMPORARY DITCH CHECKS	FOOT	315	315															

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	4
		CONTRACT NO. 62R18		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	72	72					
	JOINT								
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER	TON	513	513					
	COURSE, IL-4.75, N50								
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5,	TON	10	10					
	MIX "D", N50								
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5,	TON	1278	1278					
	MIX "D", N70								
42001300	PROTECTIVE COAT	SQ YD	2873	2873					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY	SQ YD	57	57					
	PAVEMENT, 8 INCH								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	10075	10075					
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	226	226					
44000100	PAVEMENT REMOVAL	SQ YD	453	453					
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1994	1994					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	9955	9955					
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	180	180					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	7063	7063					

SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
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44000600	SIDEWALK REMOVAL	SQ FT	320	320					
44003100	MEDIAN REMOVAL	SQ FT	4634	4634					
44004250	PAVED SHOULDER REMOVAL	SQ YD	2271	2271					
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	250	250					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	200	200					
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	200	200					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	200	200					
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	173	173					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	95	95					
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2035	2035					
50105220	PIPE CULVERT REMOVAL	FOOT	165	165					
54213657	PRECAST REINFORCED CONCRETE FLARED END	EACH	5	5					
	SECTIONS 12"								
54213669	PRECAST REINFORCED CONCRETE FLARED END	EACH	1	1					
	SECTIONS 24"								
54213675	PRECAST REINFORCED CONCRETE FLARED END	EACH	1	1					
	SECTIONS 30"								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	5
		CONTRACT NO. 62R18		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

REV-SEP

SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END	FOOT	12	12					
	SECTION								
54263430	CONCRETE END SECTION, STANDARD 542011,	EACH	1	1					
	30", 1:4								
54261424	CONCRETE END SECTION, STANDARD 542001,	EACH	1	1					
	24", 1:4								
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	907	907					
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	305	305					
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	64	64					
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	63	63					
550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	75	75					
55100500	STORM SEWER REMOVAL 12"	FOOT	86	86					
55100900	STORM SEWER REMOVAL 18"	FOOT	189	189					
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	26	26					
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	520	520					
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	7848	7848					

SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
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60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE	EACH	8	8					
	1 FRAME, OPEN LID								
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8	EACH	1	1					
	GRATE								
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24	EACH	4	4					
	FRAME AND GRATE								
60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1	EACH	2	2					
	FRAME, OPEN LID								
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24	EACH	2	2					
	FRAME AND GRATE								
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1					
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1					
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND	EACH	11	11					
	GRATE								
60218400	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME,	EACH	1	1					
	CLOSED LID								
60221100	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME,	EACH	1	1					
	CLOSED LID								
60223800	MANHOLES, TYPE A, 6' DIAMETER, TYPE 1 FRAME,	EACH	1	1					
	CLOSED LID								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	6
		CONTRACT NO. 62R18		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	BIKE PATH 0028 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1					
60260100	INLETS TO BE ADJUSTED	EACH	4	4					
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1	EACH	1	1					
	FRAME, OPEN LID								
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1	EACH	2	2					
	FRAME, CLOSED LID								
60262700	INLETS TO BE RECONSTRUCTED	EACH	2	2					
60262900	INLETS TO BE RECONSTRUCTED WITH NEW	EACH	1	1					
	TYPE 1 FRAME, OPEN LID								
60500050	REMOVING CATCH BASINS	EACH	3	3					
60500060	REMOVING INLETS	EACH	12	12					
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	1	1					
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	18	18					
60605000	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	4403	4403					
	TYPE B-6.24								
60608582	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	2370	2370					
	TYPE M-4.24								
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	9202	9202					

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
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64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2280	2280					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2240	2240					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10					
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION	L SUM	1	1					
	PLAN								
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION	L SUM	1	1					
	REPORT								
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10					
67100100	MOBILIZATION	L SUM	1	1					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	40	40					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	13995	13995					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	15712	15712					
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND	SQ FT	767	767					
	SYMBOLS - PAINT								
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"-	FOOT	9426	9426					
	PAINT								
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"-	FOOT	3048	3048					
	PAINT								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	7
		CONTRACT NO. 62R18		

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

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SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%	CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"-	FOOT	352	352						* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	9	9					
	PAINT																		
										* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2					
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"-	FOOT	750	750															
	PAINT									* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	16	16					
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"-	FOOT	255	255						* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	15	15					
	PAINT																		
										* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	188	188					
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" -	FOOT	3489	3489															
	TYPE III TAPE									✳ 78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	767	767					
											LETTERS AND SYMBOLS								
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND	SQ FT	194	194															
	SYMBOLS - TYPE IV TAPE									✳ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	9426	9426					
											4"								
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" -	FOOT	19937	19937															
	TYPE IV TAPE									✳ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	3048	3048					
											6"								
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" -	FOOT	3831	3831															
	TYPE IV TAPE									✳ 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	352	352					
											8"								
70307160	TEMPORARY PAVEMENT MARKING - LINE 12"-	FOOT	583	583															
	TYPE IV TAPE									✳ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	750	750					
											12"								
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"-	FOOT	379	379															
	TYPE IV TAPE									✳ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	255	255					
											24"								
* 72000100	SIGN PANEL - TYPE 1	SQ FT	67	20		47													
										* 78011000	GROOVING FOR RECESSED PAVEMENT MARKING,	SQ FT	581	581					
* 72000200	SIGN PANEL - TYPE 2	SQ FT	28			28					LETTERS AND SYMBOLS								

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SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

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	CODE NO	ITEM	UNIT		ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING	FOOT	4886	4886					
		5"								
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING	FOOT	2099	2099					
		7"								
*	78011045	GROOVING FOR RECESSED PAVEMENT MARKING	FOOT	352	352					
		9"								
*	78011065	GROOVING FOR RECESSED PAVEMENT MARKING	FOOT	750	750					
		13"								
*	78011125	GROOVING FOR RECESSED PAVEMENT MARKING	FOOT	144	144					
		25"								
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	54	54					
*	78100300	REPLACEMENT REFLECTOR	EACH	80	80					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	36	36					
		REMOVAL								
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	2829	2829					
	78300202	PAVEMENT MARKING REMOVAL - WATER	SQ FT	7635	7635					
		BLASTING								
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	1734			790	944		
		2" DIA.								

	SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	148			148			
		3" DIA.								
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	1336			1051			285
		4" DIA.								
*	81400100	HANDHOLE	EACH	1			1			
*	81400200	HEAVY-DUTY HANDHOLE	EACH	4			4			
*	81400300	DOUBLE HANDHOLE	EACH	4			4			
*	81603081	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4	FOOT	5100						5100
		GROUND, (XLP-TYPE USE), 1 1/2" DIA.								
		POLYETHYLENE								
*	81702110	ELECTRIC CABLE IN CONDUIT, 600V	FOOT	1148						1148
		(XLP-TYPE USE) 1/C NO. 10								
*	81800300	AERIAL CABLE, 3-1/C NO. 2 WITH	FOOT	4995						4995
		MESSENGER WIRE								
*	82110007	LUMINAIRE, LED, ROADWAY, OUTPUT	EACH	27						27
		DESIGNATION G								
*	83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15	EACH	20						20
		FT. MAST ARM								
*	83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4,	EACH	18						18
		WITH 15FT MAST ARM								

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SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

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	CODE NO	ITEM	UNIT		ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT	EACH	20						20
		CIRCLE, 10" X 8'								
*	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15	EACH	20						20
		INCH BOLT CIRCLE								
*	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	14						14
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	14						14
*	84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1						1
*	84500120	REMOVAL OF ELECTRIC SERVICE	EACH	1						1
		INSTALLATION								
*	84500130	REMOVAL OF LIGHTING CONTROLLER	EACH	1						1
		FOUNDATION								
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	2				2		
		INSTALLATION								
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO.	FOOT	3269				3269		
		14 1C								
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1426			1426			
		14 2C								
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	2349			2349			
		14 3C								

	SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
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*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	3215			3215			
		14 5C								
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	2606			2606			
		14 7C								
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.	FOOT	2562			2562			
		14 1 PAIR								
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.	FOOT	101			101			
		6 2 C								
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	1739			1739			
		GROUNDING CONDUCTOR, NO. 6 1C								
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	4			4			
		16 FT.								
*	87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1			1			
		POLE 42 FT.								
*	87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1			1			
		POLE 46 FT.								
*	87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1			1			
		POLE 50 FT.								
*	87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1			1			
		POLE 52 FT.								

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SUMMARY OF QUANTITIES
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333	FA 333 21 INTERSECTION	LAKE	157	10
		CONTRACT NO. 62R18		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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	SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20			20			
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4			4			
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH	FOOT	56			56			
		DIAMETER								
*	87900200	DRILL EXISTING HANDHOLE	EACH	2				2		
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	8			8			
		MAST-ARM MOUNTED								
*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	4			4			
		BRACKET MOUNTED								
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	6			6			
		BRACKET MOUNTED								
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	4			4			
		MAST-ARM MOUNTED								
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	4			4			
		BRACKET MOUNTED WITH COUNTDOWN TIMER								
*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED,	EACH	12			12			
		FORMED PLASTIC								
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	8			8			
*	88600100	DETECTOR LOOP, TYPE I	FOOT	372			372			

	SUMMARY OF QUANTITIES			URBAN TOTAL	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	QUANTITIES	ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	88700200	LIGHT DETECTOR	EACH	3					3	
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1	
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1			
*	89501250	RELOCATE EXISTING TRAFFIC SIGNAL	EACH	2			2			
		EQUIPMENT								
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6859				4614		2245
*	89502350	REMOVE AND REINSTALL ELECTRIC CABLE	FOOT	419				419		
		FROM CONDUIT								
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	1			1			
		EQUIPMENT								
*	89502380	REMOVE EXISTING HANDHOLE	EACH	8			8			
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1			1			
	K0029624	WEED CONTROL, TEASEL	GALLON	1	1					
	K1004595	PRUNING FOR SAFETY AND EQUIPMENT	L SUM	1	1					
		CLEARANCE								
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	892					892	
		SENSOR CABLE, NO. 20 3/C								
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	500				500		

* SPECIALTY ITEM

USER NAME = ivan.diaz	DESIGNED =		REVISED =
	DRAWN =		REVISED =
PLOT SCALE = 100.0000 ' / in.	CHECKED =		REVISED =
PLOT DATE = 5/16/2023	DATE =		REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	11
		CONTRACT NO. 62R18		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	X0327211	RELOCATE SWITCH	EACH	2			2			
	X0327301	RELOCATE EXISTING MAILBOX	EACH	2	2					
*	X8301115	MAST ARM, STREET LIGHTING, 15'	EACH	7						7
*	X1400007	FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	3292				3292		
*	X1400012	REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	430				430		
*	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	401			401			
*	X1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1			1			
*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1			1			
*	X1400217	TERMINATE FIBER IN CABINET	EACH	6				6		
*	X1400322	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2			2			
*	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2			2			

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1			1			
*	X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2			2			
	X2010400	STUMP REMOVAL ONLY	UNIT	23	23					
	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	2	2					
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2					
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1					
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	90	90					
△	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	200		200				
	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12					
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
	X7010410	SPEED DISPLAY TRAILER	CAL MO	50	50					
*	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	90	90					
*	X8211007	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	25						25
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1			1			

* SPECIALTY ITEM
△ NON-PARTICIPATING ITEM

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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	12
		CONTRACT NO. 62R18		

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

REV-SEP

	SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%	CODE NO	ITEM	UNIT		ROADWAY 0004 HSIP FED 90% STATE 10%	ROADWAY 0004 STATE 100%	SIGNAL 0021 FED 90% STATE 5% COUNTY 5%	INTER-CONNECT 0021 COUNTY 100%	EVP 0021 VILLAGE 100%	LIGHTING 0021 FED 90% STATE 10%
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4			4													
*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH	FOOT	12			12													
		DIAMETER																		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1															
Δ	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10		10														
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103															
*	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	27						27										
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12						12										
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	1				1												
		2																		
	Z0064800	SELECTIVE CLEARING	UNIT	5	5															
	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1			1													
	X6020107	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2	EACH	2	2															
		TYPE 8 FRAME, RESTRICTOR PLATE																		
Ø	Z0076600	TRAINEES	HOURS	500	500															
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500															

Ø 0042

* SPECIALTY ITEM

Δ NON-PARTICIPATING ITEM

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	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

SUMMARY OF QUANTITIES
IL 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	13
		CONTRACT NO. 62R18		

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

REV-SEP

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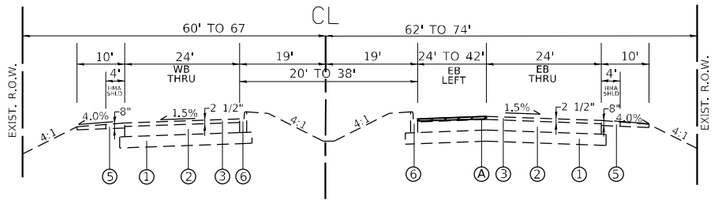
ILLINOIS ROUTE 120 (BELVIDERE ROAD)

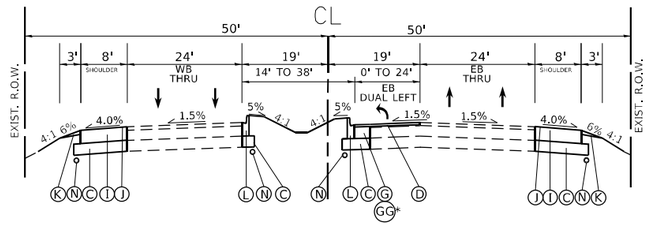


TYPICAL EXISTING ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 43+62 TO 47+40

ILLINOIS ROUTE 120 (BELVIDERE ROAD)



TYPICAL PROPOSED ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 43+62 TO 47+06

LEGEND

1 EXIST. AGGREGATE SUBGRADE
2 EXIST. PCC PAVEMENT, ±10''
3 EXIST. HMA PAVEMENT, 2 1/2''
4 EXIST. HMA PAVEMENT, 9 1/2''
5 EXIST. HMA/AGGREGATE SHOULDER
6 EXIST. CURB AND GUTTER

A PROP. HMA SURFACE REMOVAL, 2''
B PROP. HMA SURFACE REMOVAL, 2 1/4''
C PROP. AGGREGATE SUBGRADE IMPROVEMENT 12''
D PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N70, 2''
E PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N70, 1 1/2''
F PROP. POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4''
G PROP. HMA BASE COURSE, 10 1/4''
GG PROP. HMA BASE COURSE WIDENING, 10 1/4''
H PROP. HMA BASE COURSE, 7 1/4''
HH PROP. HMA BASE COURSE WIDENING, 7 1/4''
I PROP. HMA SHOULDERS, 8''
J PROP. SHOULDER RUMBLE STRIPS, 16''
K PROP. AGGREGATE WEDGE SHOULDER, TYPE B
L PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
M PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
N PROP. PIPE UNDERDRAINS, TYPE 2, 4''
O PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N50, 2''
P PROP. LONGITUDINAL JOINT SEALANT
Q PROP. PAVED SHOULDER REMOVAL
R PROP. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
S PROP. AGGREGATE SHOULDERS, TYPE B. 6''
T PROP. SUBBASE GRANULAR MATERIAL, TYPE C

ROADWAY NOTE:

1. CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

*PROP. HMA BASE COURSE WIDENING SHALL CONSIST OF WIDENING AREAS NOT EXCEEDING 6 FEET.

NOTE:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA 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 RECLAIMED MATERIALS SPECFICATIONS.

MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE USES	**AIR VOIDS @ Ndes**	
IL 120 ROADWAY RESURFACING & WIDENING		
HMA SURFACE COURSE, MIX ''D'', IL-9.5, N70, 2''	4.0% AT 70 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER COURSE, IL-19.0), 10 1/4''	4.0% AT 90 GYR.	QC/QA
HMA BASE COURSE WIDENING (HMA BINDER COURSE, IL-19.0), 10 1/4''	4.0% AT 90 GYR.	QC/QA
IL 120 HMA SHOULDERS, 8"		
HMA SURFACE COURSE, MIX ''D'', IL-9.5, N70, 2''	4.0% AT 70 GYR.	QC/QA
HMA BINDER COURSE, IL-19.0, N90, 6''	4.0% AT 90 GYR.	QC/QA
O'PLAINE ROADWAY RESURFACING & WIDENING		
HMA SURFACE COURSE, MIX ''D'', IL-9.5, N70, 1 1/2''	4.0% AT 70 GYR.	QC/QA
POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4''	3.5% AT 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER COURSE, IL-19.0), 7 1/4''	4.0% AT 90 GYR.	QC/QA
HMA BASE COURSE WIDENING (HMA BINDER COURSE, IL-19.0), 7 1/4''	4.0% AT 90 GYR.	QC/QA
O'PLAINE HMA SHOULDERS, 8"		
HMA SURFACE COURSE, MIX ''D'', IL-9.5, N70, 2''	4.0% AT 70 GYR.	QC/QA
HMA BINDER COURSE, IL-19.0, N90, 6''	4.0% AT 90 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER, IL-19.0, N70)	4% AT 70 GYR.	QC/QA
HMA DRIVEWAYS (PRIVATE ENTRANCE)		
HMA SURFACE COURSE, MIX ''D'', IL-9.5, N50, 2''	4% AT 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER COURSE, IL-19.0) 6''	4% AT 50 GYR.	QC/QA

QMP Designation: Pay for Performance (PFP); Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	14
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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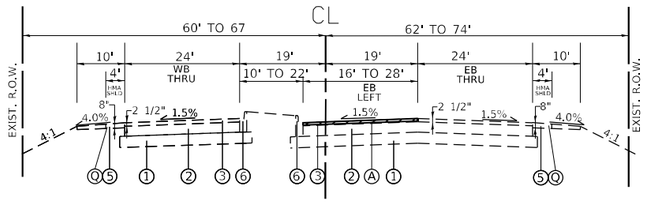
ILLINOIS ROUTE 120 (BELVIDERE ROAD)

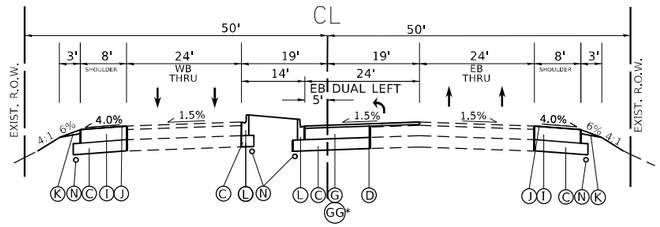


TYPICAL EXISTING ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 47+40 TO 50+00

ILLINOIS ROUTE 120 (BELVIDERE ROAD)

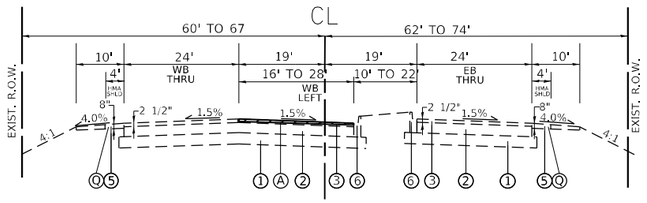


TYPICAL PROPOSED ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 47+06 TO 50+00

ILLINOIS ROUTE 120 (BELVIDERE ROAD)

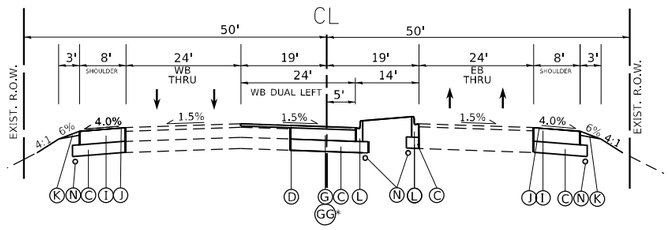


TYPICAL EXISTING ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 50+00 TO 52+78

ILLINOIS ROUTE 120 (BELVIDERE ROAD)

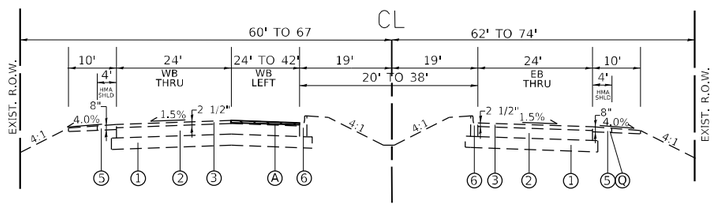


TYPICAL PROPOSED ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 50+00 TO 52+93

ILLINOIS ROUTE 120 (BELVIDERE ROAD)

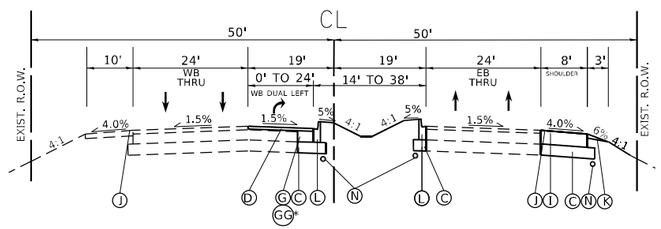


TYPICAL EXISTING ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 52+78 TO 56+89

ILLINOIS ROUTE 120 (BELVIDERE ROAD)



TYPICAL PROPOSED ROADWAY CROSS SECTION

IL 120 (BELVIDERE ROAD)

STATION 52+93 TO 56+89

LEGEND

1	EXIST. AGGREGATE SUBGRADE
2	EXIST. PCC PAVEMENT, ±10''
3	EXIST. HMA PAVEMENT, 2 1/2''
4	EXIST. HMA PAVEMENT, 9 1/2''
5	EXIST. HMA/AGGREGATE SHOULDER
6	EXIST. CURB AND GUTTER
A	PROP. HMA SURFACE REMOVAL, 2''
B	PROP. HMA SURFACE REMOVAL, 2 1/4''
C	PROP. AGGREGATE SUBGRADE IMPROVEMENT 12''
D	PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N70, 2''
E	PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N70, 1 1/2''
F	PROP. POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4''
G	PROP. HMA BASE COURSE, 10 1/4''
GG	PROP. HMA BASE COURSE WIDENING, 10 1/4''
H	PROP. HMA BASE COURSE, 7 1/4''
HH	PROP. HMA BASE COURSE WIDENING, 7 1/4''
I	PROP. HMA SHOULDERS, 8''
J	PROP. SHOULDER RUMBLE STRIPS, 16''
K	PROP. AGGREGATE WEDGE SHOULDER, TYPE B
L	PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
M	PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
N	PROP. PIPE UNDERDRAINS, TYPE 2, 4''
O	PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N50, 2''
P	PROP. LONGITUDINAL JOINT SEALANT
Q	PROP. PAVED SHOULDER REMOVAL
R	PROP. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
S	PROP. AGGREGATE SHOULDERS, TYPE B, 6''
T	PROP. SUBBASE GRANULAR MATERIAL, TYPE C

*PROP. HMA BASE COURSE WIDENING SHALL CONSIST OF WIDENING AREAS NOT EXCEEDING 6 FEET.

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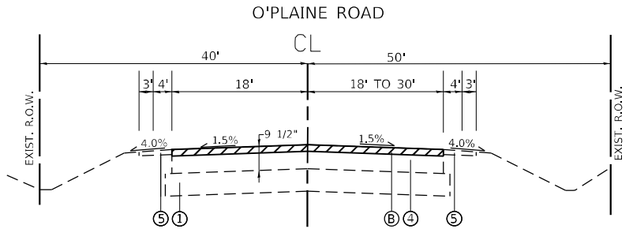
PLOT DATE = 5/11/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 120 AT O'PLAINE ROAD

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

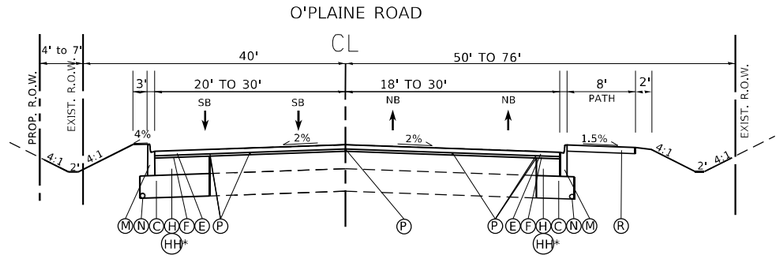
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	15
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	



TYPICAL EXISTING ROADWAY CROSS SECTION

O'PLAINE ROAD

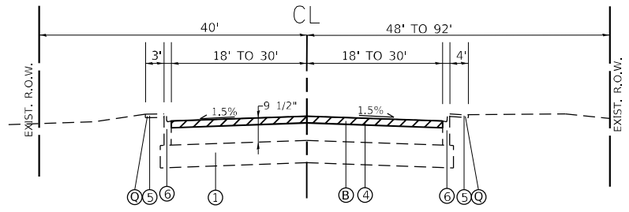
STATION 11+38 TO 14+28



TYPICAL PROPOSED ROADWAY CROSS SECTION

O'PLAINE ROAD

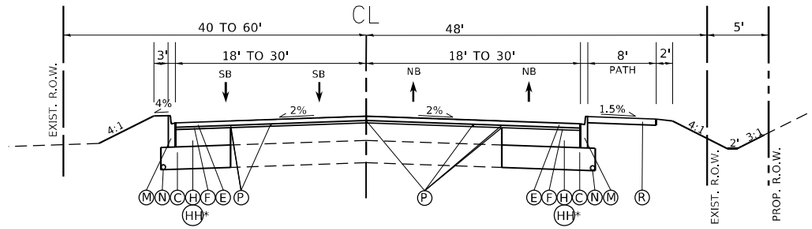
STATION 11+38 TO 19+56



TYPICAL EXISTING ROADWAY CROSS SECTION

O'PLAINE ROAD

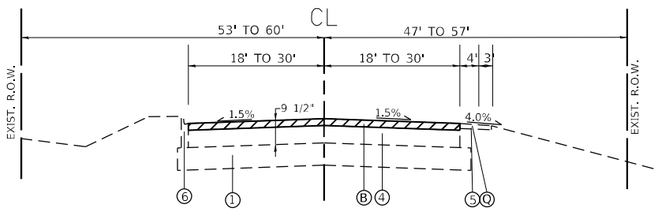
STATION 14+28 TO 22+00



TYPICAL PROPOSED ROADWAY CROSS SECTION

O'PLAINE ROAD

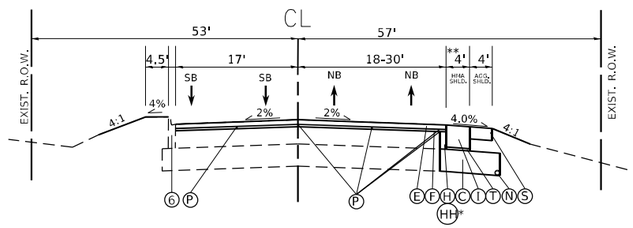
STATION 20+43 TO 24+25



TYPICAL EXISTING ROADWAY CROSS SECTION

O'PLAINE ROAD

STATION 22+00 TO 28+80



TYPICAL PROPOSED ROADWAY CROSS SECTION

O'PLAINE ROAD

STATION 24+25 TO 28+80

LEGEND

1	EXIST. AGGREGATE SUBGRADE
2	EXIST. PCC PAVEMENT, ±10''
3	EXIST. HMA PAVEMENT, 2 1/2''
4	EXIST. HMA PAVEMENT, 9 1/2''
5	EXIST. HMA/AGGREGATE SHOULDER
6	EXIST. CURB AND GUTTER
A	PROP. HMA SURFACE REMOVAL, 2''
B	PROP. HMA SURFACE REMOVAL, 2 1/4''
C	PROP. AGGREGATE SUBGRADE IMPROVEMENT 12''
D	PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N70, 2''
E	PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N70, 1 1/2''
F	PROP. POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4''
G	PROP. HMA BASE COURSE, 10 1/4''
GG	PROP. HMA BASE COURSE WIDENING, 10 1/4''
H	PROP. HMA BASE COURSE, 7 1/4''
HH	PROP. HMA BASE COURSE WIDENING, 7 1/4''
I	PROP. HMA SHOULDERS, 8''
J	PROP. SHOULDER RUMBLE STRIPS, 16''
K	PROP. AGGREGATE WEDGE SHOULDER, TYPE B
L	PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
M	PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
N	PROP. PIPE UNDERDRAINS, TYPE 2, 4''
O	PROP. HMA SURFACE COURSE, IL-9.5, MIX ''D'', N50, 2''
P	PROP. LONGITUDINAL JOINT SEALANT
Q	PROP. PAVED SHOULDER REMOVAL
R	PROP. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
S	PROP. AGGREGATE SHOULDERS, TYPE B, 6''
T	PROP. SUBBASE GRANULAR MATERIAL, TYPE C

ROADWAY NOTE:

1. PROPOSED GEOTECH FABRIC SHALL BE PLACED IN PAVEMENT WIDENING AREAS ALONG O'PLAINE RD.
2. PROPOSED LONGITUDINAL JOINT SEALANT (LJS) SHALL BE PLACED ONLY ALONG O'PLAINE ROAD UNDER THE HMA SURFACE COURSE AT UNCONFINED JOINTS. LJS SHALL ALSO BE PLACED IN BETWEEN THE HMA BINDER AND HMA BASE COURSE IN WIDENING AREAS. PLEASE REFER TO LAKE COUNTY STANDARD LC4025.
3. PROPOSED PIPE UNDERDRAINS SHALL BE INSTALLED WITHIN THE AGGREGATE SUBGRADE IMPROVEMENT 12'' ALONG O'PLAINE ROAD.

*PROP. HMA BASE COURSE WIDENING SHALL CONSIST OF WIDENING AREAS NOT EXCEEDING 6 FEET.

**PROP. HMA PAVED SHOULDER WIDTH SHALL BE 8-FT FROM STATION 26+39 TO STATION 28+41.

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PLOT DATE = 5/11/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	16
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

LOCATION		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 15%	FILL	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	TOPSOIL EXCAVATION STRIP DEPTH = VAR 12"	TOPSOIL EXCAVATION ADJUSTED FOR a(5)	TOPSOIL FILL DEPTH = VAR 4"	TOPSOIL BALANCE WASTE (+) SHORTAGE (-)
IL 120									
FROM STATION	TO STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
43+62	44+00	37	32	14	18	31	31	15	16
44+00	45+00	109	93	40	53	84	84	38	46
45+00	46+00	123	105	56	49	91	91	31	60
46+00	47+00	140	119	75	44	101	101	29	72
47+00	48+00	180	153	99	54	97	97	37	60
48+00	49+00	183	156	100	56	73	73	34	39
49+00	50+00	81	69	42	27	30	30	14	16
50+00	51+00	111	95	49	46	56	56	32	24
51+00	52+00	266	226	83	143	103	103	58	45
52+00	53+00	265	226	59	167	97	97	44	53
53+00	54+00	204	173	44	129	110	110	38	72
54+00	55+00	127	108	27	81	83	83	39	44
55+00	56+00	99	84	20	64	62	62	43	19
56+00	56+88	100	85	15	70	59	59	40	19
SUB-TOTAL		2025	1724	723	1001	1077	1077	492	585

LOCATION		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 15%	FILL	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	TOPSOIL EXCAVATION STRIP DEPTH = VAR 12"	TOPSOIL EXCAVATION ADJUSTED FOR a(5)	TOPSOIL FILL DEPTH = VAR 4"	TOPSOIL BALANCE WASTE (+) SHORTAGE (-)
O'Plaine Road									
FROM STATION	TO STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
11+38	12+00	52	44	98	-54	44	44	29	15
12+00	13+00	88	74	176	-102	78	78	49	29
13+00	14+00	95	81	207	-126	86	86	52	34
14+00	15+00	92	78	165	-87	77	77	44	33
15+00	16+00	104	88	73	15	65	65	35	30
16+00	17+00	114	97	26	71	53	53	23	30
17+00	17+87	187	159	9	150	38	38	16	22
17+87	18+00	40	34	2	32	7	7	4	3
18+00	18+50	107	91	22	69	35	35	20	15
18+50	19+00	88	75	135	-60	64	64	32	32
19+00	20+00	94	80	233	-153	82	82	39	43
20+00	21+00	137	117	65	52	62	62	29	33
21+00	22+00	221	188	68	120	88	88	37	51
22+00	22+10	13	11	1	10	3	3	1	2
22+10	23+00	83	71	28	43	22	22	7	15
23+00	24+00	110	93	68	25	30	30	17	13
24+00	25+00	84	72	53	19	22	22	17	5
25+00	26+00	46	39	42	-3	39	39	20	19
26+00	26+64	30	26	20	6	19	19	11	8
26+64	27+00	18	15	5	10	12	9	7	2
27+00	27+76	39	33	9	24	22	13	13	0
27+76	28+00	13	11	2	9	6	4	4	0
28+00	28+80	38	32	6	26	32	25	17	8
SUB-TOTAL		1893	1609	1513	96	986	965	523	442

EARTH EXCAVATION SUMMARY		
	EARTHWORK BALANCE (CY) WASTE (+) SHORTAGE (-)	TOPSOIL BALANCE (CY) WASTE (+) SHORTAGE (-)
OPlaine	96	442
IL 120	1001	585
TOTAL	1097	1027

EARTHWORK NOTES:

1. STATION RANGE
2. VOLUME TO BE CUT
3. CUT VOLUME ADJUSTED DUE TO 15% FOR SHRINKAGE AND LOSSES, OR OMISSION DUE TO HAVING AN A(5) CONTAMINATED SITE PER THE PSI REPORT. EARTH EX ADJUSTED VOLUME EQUALS MINUS A(5) CONTAMINATES MULTIPLY BY 15% REDUCTION FOR SHRINKAGE.
4. VOLUME TO BE FILLED
5. COLUMN (4) MINUS COLUMN (3)
6. TOPSOIL STRIPPING VOLUME
7. TOPSOIL FILL VOLUME
8. COLUMN (7) MINUS COLUMN (6)

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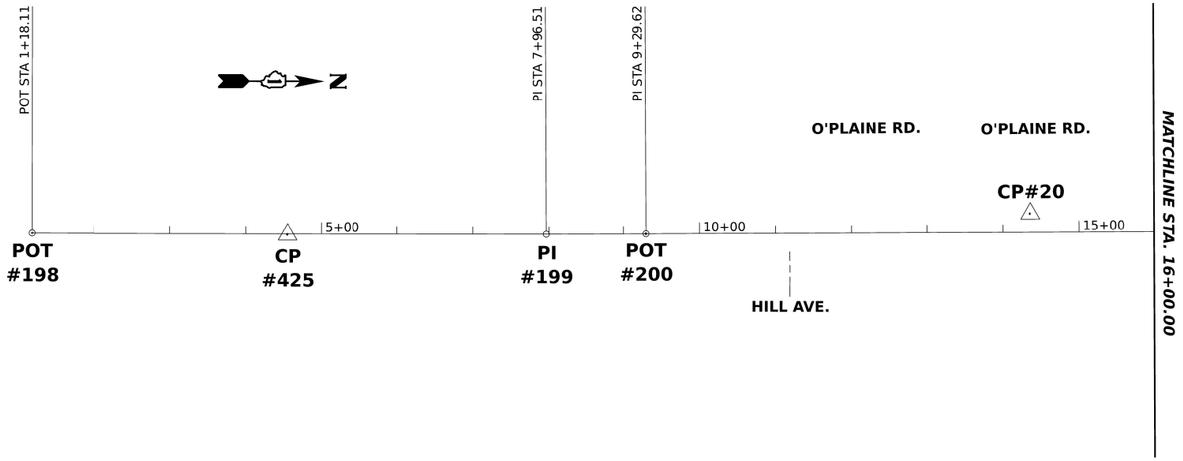
PLOT DATE = 5/11/2023	DATE -	REVISED -	

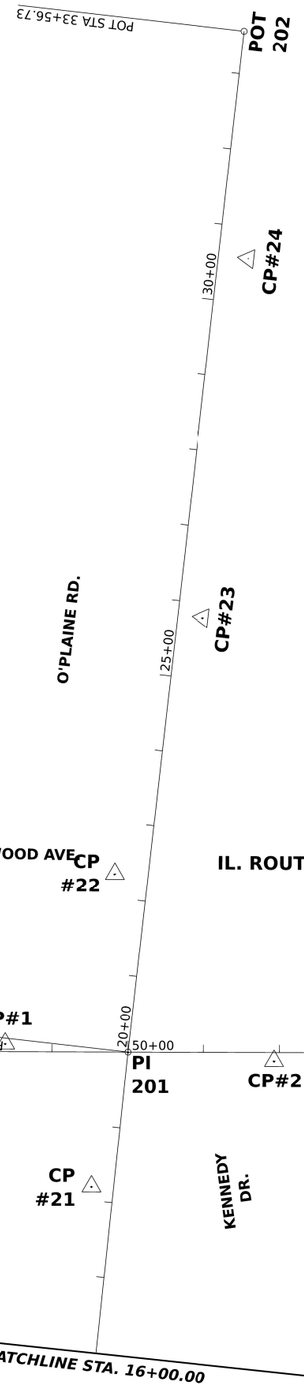
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

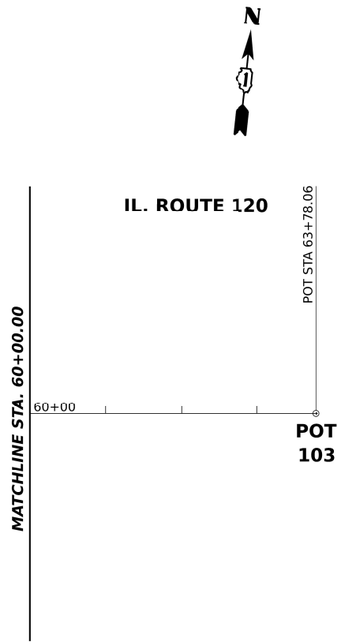
SCHEDULE OF QUANTITIES
IL 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	17
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			







EX CURVE IL120_E
PI STA = 39+96.45
Δ = 00°34'33" (RT)
D = 00°04'33"
R = 75,667.83'
T = 380.30'
L = 760.60'
E = 0.96'
e = ____
PC STA = 36+16.15
PT STA = 43+76.75

MATCHLINE STA. 16+00.00

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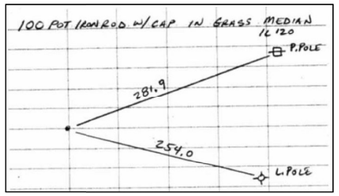
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"= 50' | SHEET 1 OF 2 SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	18
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

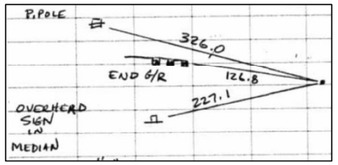
Long Section Number



POT #100

IRON ROD W/CAP IN GRASS MEDIAN

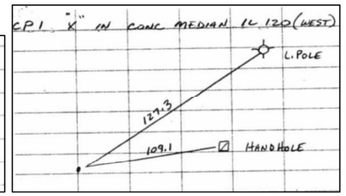
STA. 30+76.47
N= 2068767.421800
E= 1095552.959600
ELEV.= 740.30



PI #105

IRON ROAD W/CAP IN GRASS MEDAIN IL 120

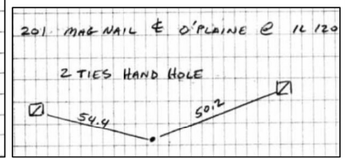
STA. 39+96.45
N= 2068875.656800
E= 1096466.551700
ELEV.= 750.78



CONTROL POINT #1

"X" IN CONC MEDAIN IL 120(WEST)

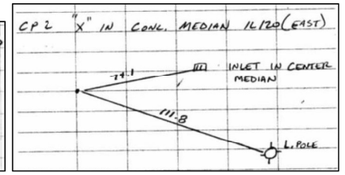
STA. 48+38.47
N= 2068978.788100
E= 1097302.307200
ELEV.= 741.44



PI #201

MAG NAIL ℄ O'PLAINE AT IL 120

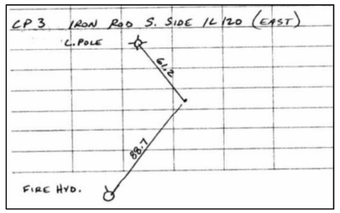
STA. 50+00.00
N= 2068985.717900
E= 1097464.042000
ELEV.= 736.81



CONTROL POINT #2

"X" IN CONC. MEDIAN IL 120 (EAST)

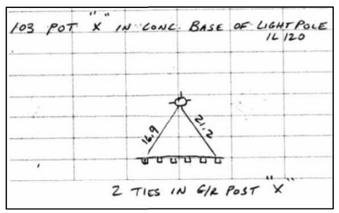
STA. 51+93.04
N= 2068995.671500
E= 1097657.150000
ELEV.= 731.75



CONTROL POINT #3

IRON ROD S. SIDE IL 120 (EAST)

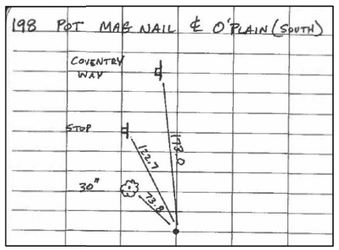
STA. 58+02.33
N= 2069019.603100
E= 1098267.452600
ELEV.= 718.89



POT #103

"X" IN CONC BASE OF LIGHTPOLE IL 120

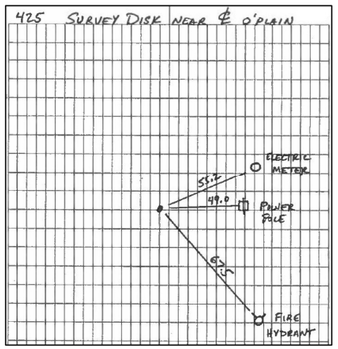
STA. 63+78.06
N= 2069135.472900
E= 1098833.941000
ELEV.= 721.91



POT #198

MAG NAIL ℄ O'PLAIN (SOUTH)

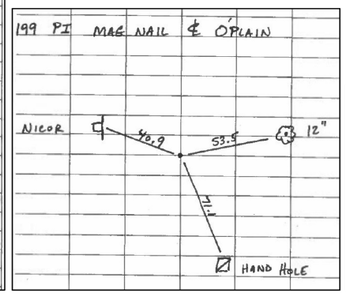
STA. 1+18.11
N= 2067103.859800
E= 1097472.607300
ELEV.= 729.33



CONTROL POINT #425

SURVEY DISK NEAR ℄ O'PLAIN

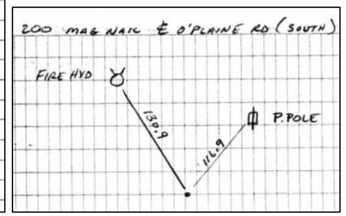
STA. 4+55.27
N= 2067441.020500
E= 1097473.208700
ELEV.= 733.08



PI #199

MAG NAIL ℄ O'PLAIN

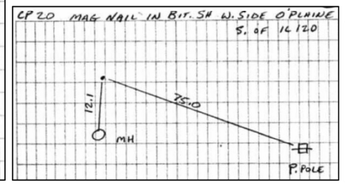
STA. 7+96.51
N= 2067782.262100
E= 1097471.932400
ELEV.= 734.15



POT #200

MAG NAIL ℄ O'PLAIN RD (SOUTH)

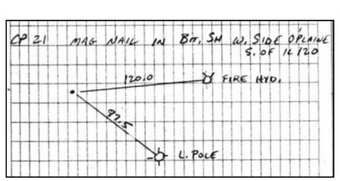
STA. 9+29.62
N= 2067915.363300
E= 1097471.081700
ELEV.= 734.63



CONTROL POINT #20

MAG NAIL IN BIT. SH W. SIDE OPLAINE S. OF IL 120

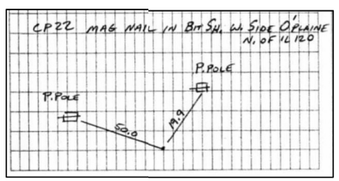
STA. 14+35.92
N= 2068421.495000
E= 1097443.438200
ELEV.= 735.70



CONTROL POINT #21

MAG NAIL IN BIT. SH W. SIDE OPLAINE S. OF IL 120

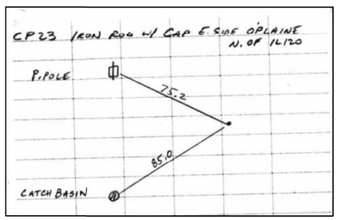
STA. 18+18.31
N= 2068803.846500
E= 1097436.143300
ELEV.= 736.32



CONTROL POINT #22

MAG NAIL IN BIT. SH W. SIDE OPLAINE S. OF IL 120

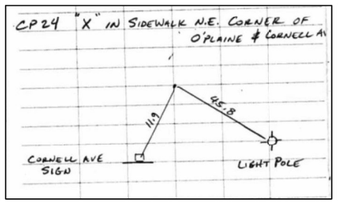
STA. 22+31.85
N= 2069217.624100
E= 1097420.557600
ELEV.= 738.16



CONTROL POINT #23

IRON ROD W/CAP E. SIDE OPLAINE N. OF IL 120

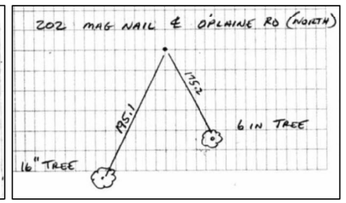
STA. 25+81.25
N= 2069566.931700
E= 1097497.962100
ELEV.= 740.32



CONTROL POINT #24

"X" IN SIDEWALK N.E. CORNER OF O'PLAINE AND CORNELL

STA. 30+58.75
N= 2070044.428400
E= 1097504.816900
ELEV.= 738.54



POT #202

MAG NAIL O'PLAINE RD (NORTH)

STA. 33+56.73
N= 2070342.448000
E= 1097465.739300
ELEV.= 738.45

BENCHMARK #1

ELEV. = 748.93

☐ - CUT IN CONC. BASE OF OVERHEAD SIGN IN MEDIAN OF IL 120 ± 1240' W. OF O'PLAINE RD.

BENCHMARK #2

ELEV. 737.66

"X" - CUT IN SOUTH CONC. BASE OF LIGHT POLE IN N.W. CORNER OF IL 120 AND O'PLAINE RD.

BENCHMARK #3

ELEV. 724.89

"X" - CUT IN S.W. BOLT OF FIRE HYDRANT ± 130' S. OF ℄ IL 120 AND ± 750' E. OF O'PLAINE

BENCHMARK #4

ELEV. 734.48

"X" - CUT IN N.W. BOLT OF FIRE HYDRANT W. SIDE O'PLAINE RD ± 950' S. OF IL 120

BENCHMARK #5

ELEV. 743.19

"X" - CUT IN N.E. BOLT OF FIRE HYDRANT EAST SIDE O'PLAINE ± 730' N. OF IL 120

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	DRAWN - _____	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____	
PLOT DATE = $DATE$	DATE - _____	REVISED - _____	

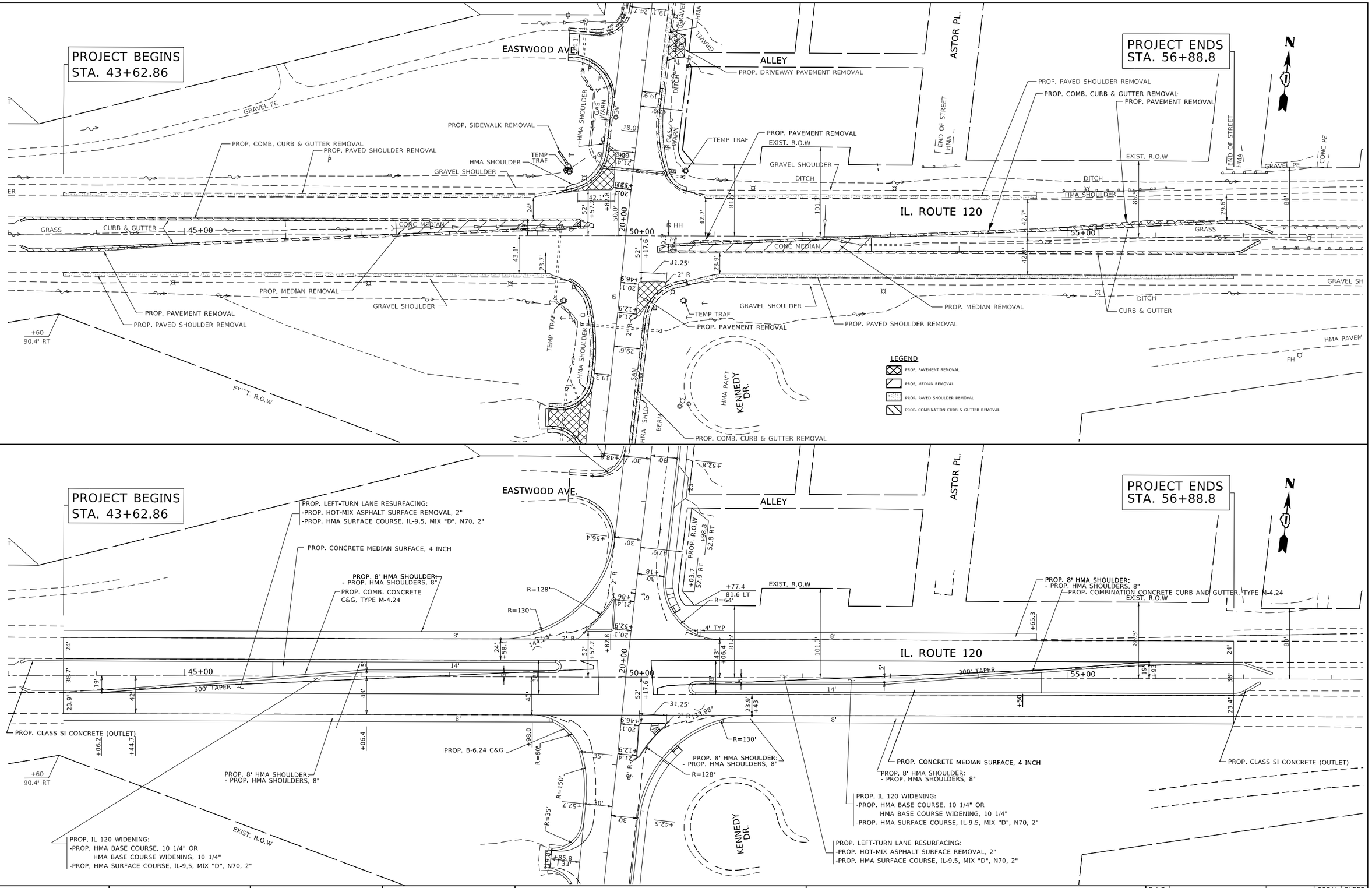
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"= 50' | SHEET 2 OF 2 SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	19
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



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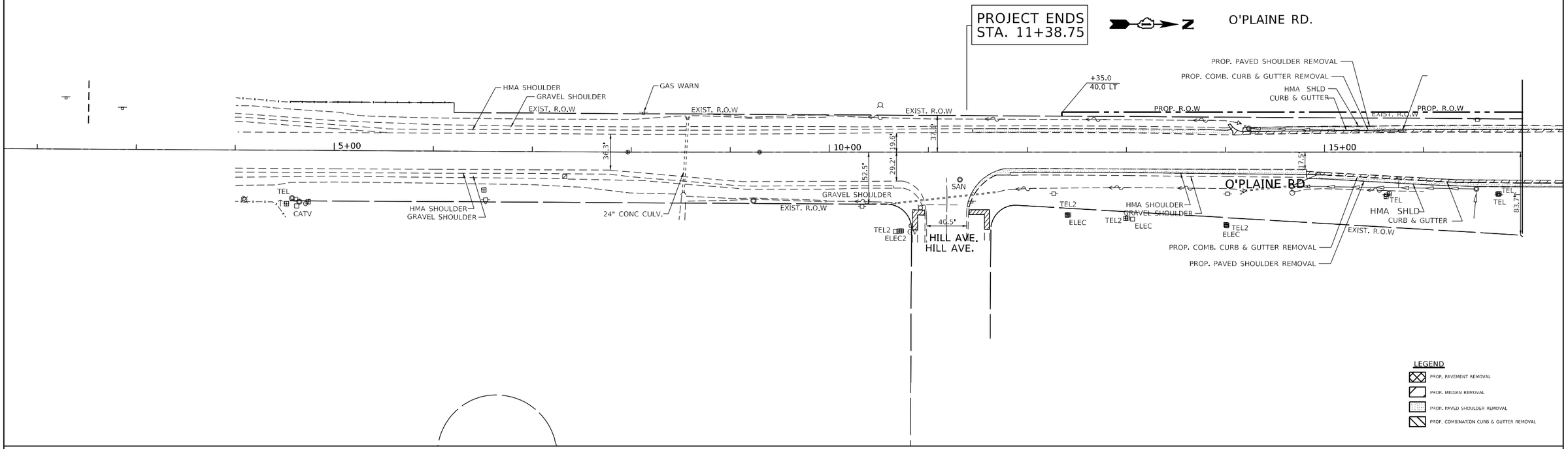
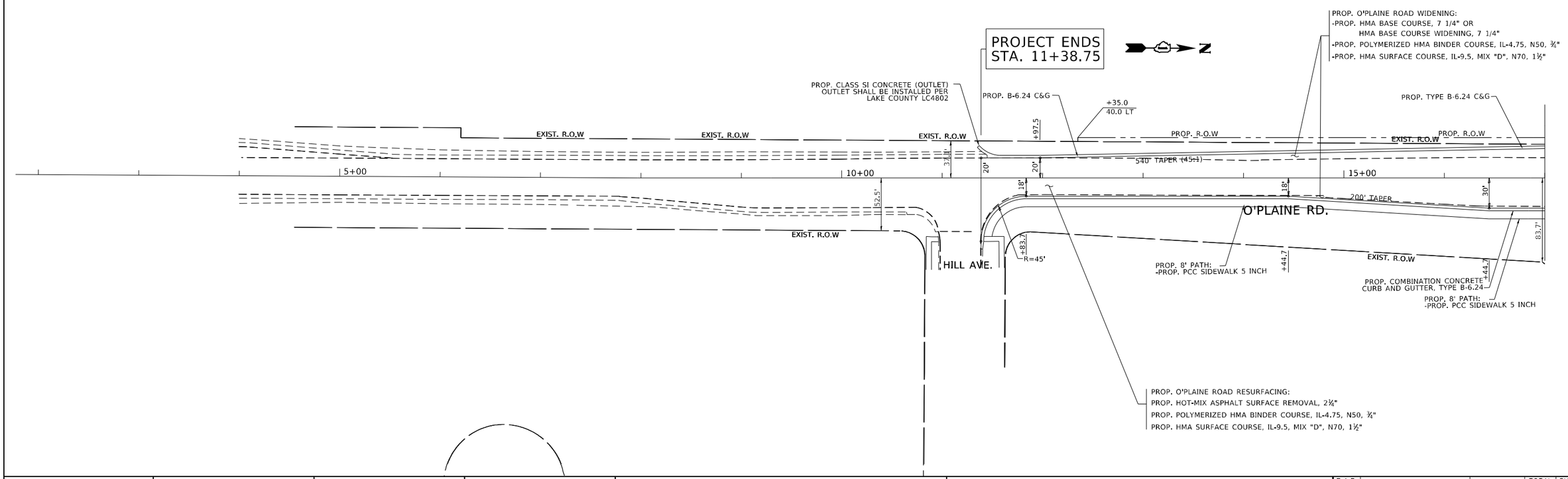
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 45+00 TO STA. 56+88.8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	20
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		





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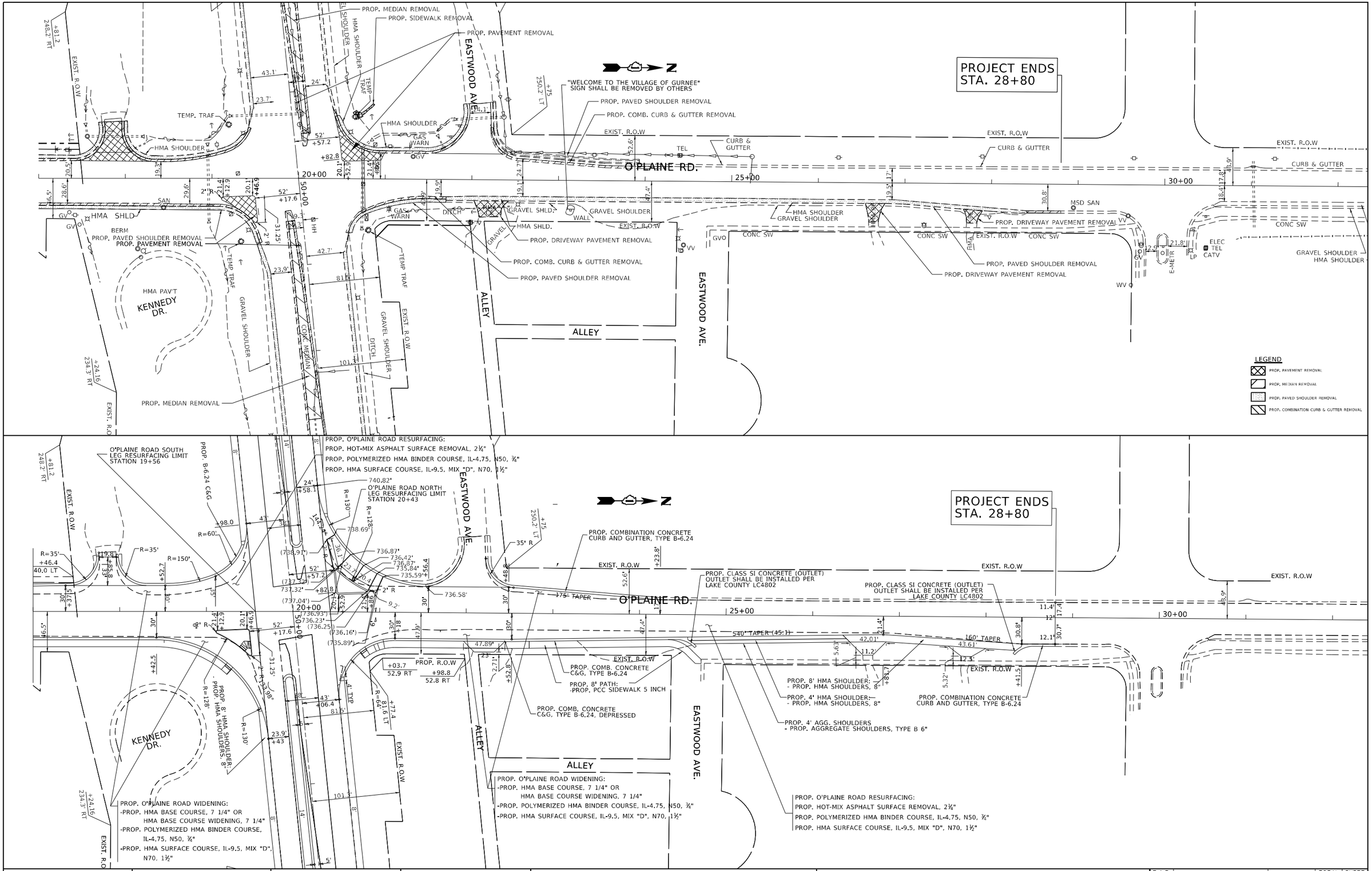
Default	PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	21
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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Default	PLOT DATE = 5/16/2023	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL ROUTE 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	22
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

PLAN

SURVEYED
PLOTTED
ORIGINAL CHECKED
PLAN NOT CHECKED
R.O.W. CHECKED
CADD FILE NAME

NOTE BOOK
NO.

BY | DATE

PROFILE

SURVEYED
PLOTTED
ORIGINAL CHECKED
I.M.A. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

BY | DATE

790
785
780
775
770
765
760
755
750
745
740
735
730
725
720
715
710

EXIST IL. ROUTE 120 E.B. PGL PROFILE

751.92 | 750.87 | 749.37 | 747.50 | PGL EB 745.20 | 742.49 | 739.71 | 736.87 | 734.10 | 731.45 | 728.90 | 726.31 | 723.93 | 721.90 | 720.35 | 719.50

43+00 | 44+00 | 45+00 | 46+00 | 47+00 | 48+00 | 49+00 | 50+00 | 51+00 | 52+00 | 53+00 | 54+00 | 55+00 | 56+00 | 57+00 | 58+00

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PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PROFILE
IL. ROUTE 120 (BELVIDERE RD.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	23
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

PLAN

BY	DATE

SURVEYED
PLOTTED
DRAWN CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
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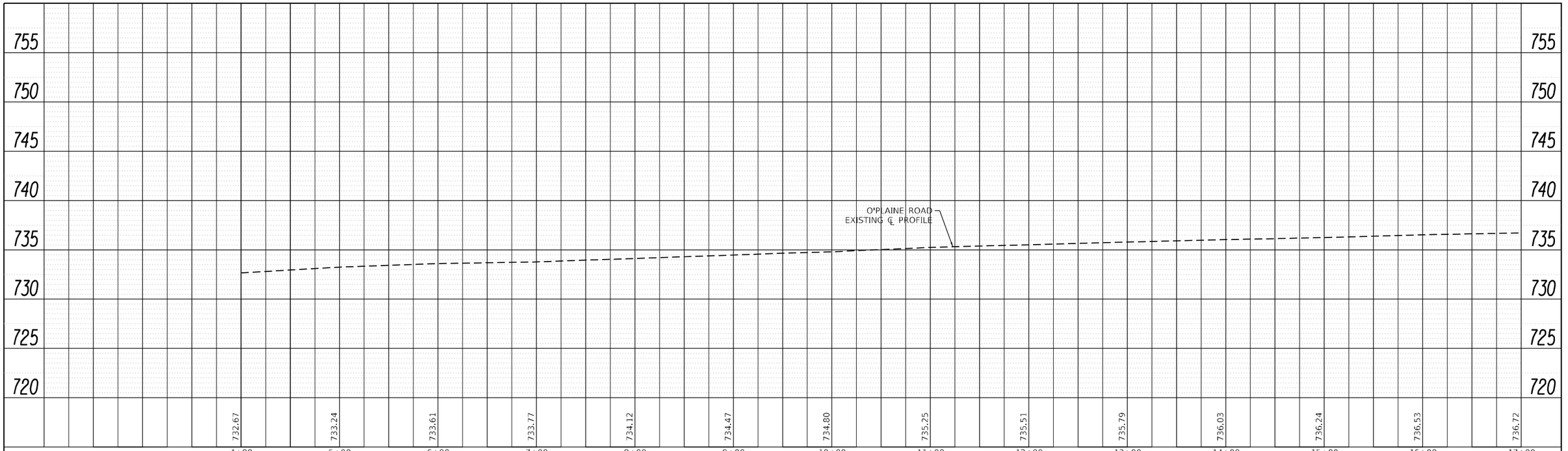

PROFILE

BY	DATE

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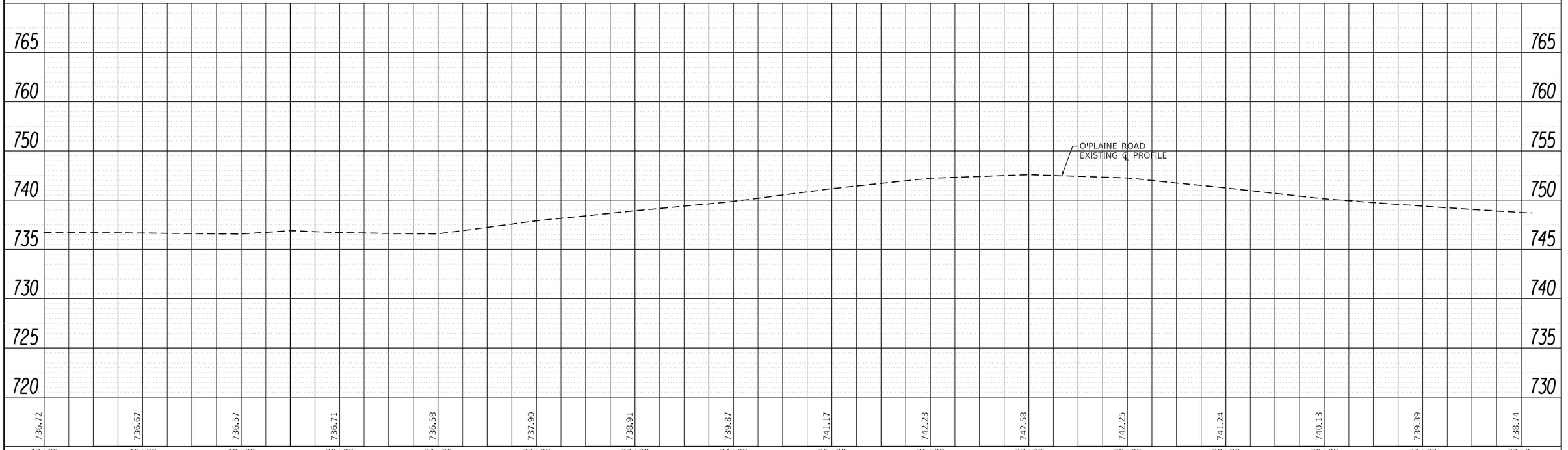

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Default	PLOT DATE = 5/16/2023	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PROFILE
O'PLANE RD.

SCALE: 1"=50' | SHEET OF SHEETS | STA. 4+00 | TO STA. 32+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	24
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

COMMON TO ALL STAGES

WORK CAN BE COMPLETED USING LANE CLOSURES DURING ALLOWABLE HOURS ONLY AS SPECIFIED IN THE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC"

STAGE I

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE CONFLICTING PAVEMENT MARKING

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING AT SE QUADRANT INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING AT SW QUADRANT NORTH OF TURN-ARIUND ENTRANCE INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING AT NE QUADRANT ONLY ALONG O'PLAINE ROAD INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

BEGIN GRADING WORK RELATED TO BIKE PATH SHELVES INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS.

INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.

STAGE II

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE CONFLICTING PAVEMENT MARKING

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING ON NE QUADRANT ONLY ALONG IL 120 INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING NW QUADRANT INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

BEGIN GRADING WORK RELATED TO BIKE PATH SHELVES INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS.

INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.

STAGE III

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE CONFLICTING PAVEMENT MARKING

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING ON EAST MEDIAN ON IL 120 INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING WEST MEDIAN ON IL 120 INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS. EXCAVATION ON BOTH SIDES OF O"PLAINE ROAD, AT ANYONE LOCATION, AT THE SAME TIME IS NOT ALLOWED.

BEGIN GRADING WORK RELATED INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS.

INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.

STAGE IV

ESTABLISH TRAFFIC CONTROL USING APPROPRIATE HIGHWAY STANDARDS.

MILL EXISTING HMA PAVEMENT AND INSTALL BINDER AND SURFACE COURSE AT RESURFACING AREAS.

INSTALL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS AS SHOWN ON PLANS.

NOTE:

1. ESTABLISHING TRAFFIC CONTROL AS SHOWN ON SUGGESTED STAGING CONSTRUCTION STAGING SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).

2. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFF GREATER THAN 24" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES AT THE END OF EACH WORKDAY. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

3. PROPOSED WATER BLASTING SHALL BE USED ON FINAL SURFACES TO REMOVE EXISTING PAVEMENT MARKINGS. SUCH AS IL 120 ALONG THE THROUGH LANES.

4. EXISTING REFLECTOR ELEMENTS IN RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH STAGED TRAFFIC PATTERNS SHALL BE REMOVED UNDER THIS CONTRACT. THESE SHALL BE REPLACED WITHIN THE LIMITS OF THIS CONTRACT'S MAINTENANCE OF TRAFFIC, ALONG WITH ANY OTHER MARKERS THAT WERE MISSING REFLECTOR ELEMENTS PRIOR TO REOPENING THE LANES TO TRAFFIC. THE REMOVAL AND REPLACEMENT OF REFLECTOR ELEMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF REPLACEMENT REFLECTOR.

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

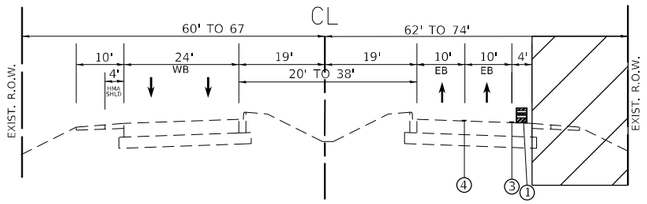
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED CONSTRUCTION STAGING & GENERAL NOTES
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	25
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

ILLINOIS ROUTE 120 (BELVIDERE ROAD)



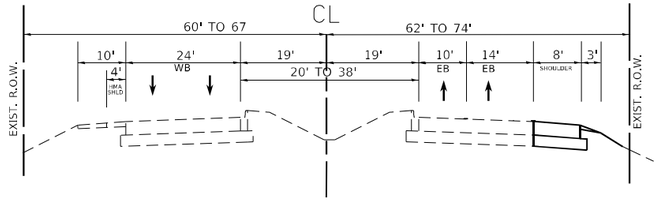
TYPICAL STAGE I CROSS SECTION

EXISTING

IL 120 (BELVIDERE ROAD)

STATION 43+60 TO 50+00

ILLINOIS ROUTE 120 (BELVIDERE ROAD)



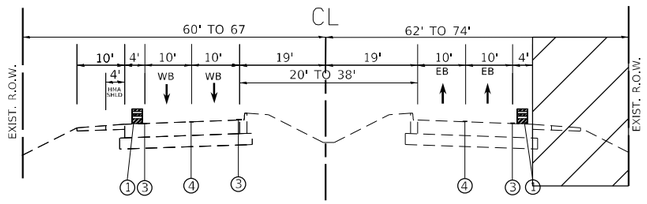
TYPICAL STAGE I CROSS SECTION

PROPOSED

IL 120 (BELVIDERE ROAD)

STATION 43+60 TO 50+00

ILLINOIS ROUTE 120 (BELVIDERE ROAD)



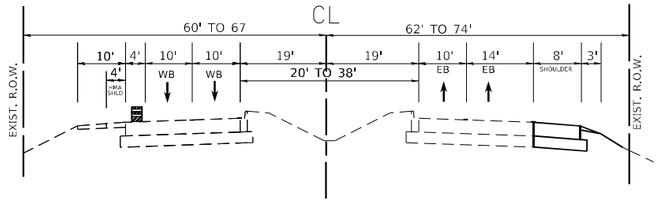
TYPICAL STAGE I CROSS SECTION

EXISTING

IL 120 (BELVIDERE ROAD)

STATION 50+00 TO 56+89

ILLINOIS ROUTE 120 (BELVIDERE ROAD)



TYPICAL STAGE I CROSS SECTION

PROPOSED

IL 120 (BELVIDERE ROAD)

STATION 50+00 TO 56+89

LEGEND

WORK AREA

① DRUMS OR BARRICADES SPACING (TYP): 50′ C-C TANGENTS
20′ C-C TAPERS
10′ C-C RADII

② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4″ SOLID, 11″ C-C
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4″ SOLID
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4″ DASHED, 10′ DASH 30′ SKIP
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6″ SOLID

ROADWAY NOTE:

1. PAVEMENT MARKING REMOVAL - WATER BLASTING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ALONG IL 120 ON FINAL SURFACES

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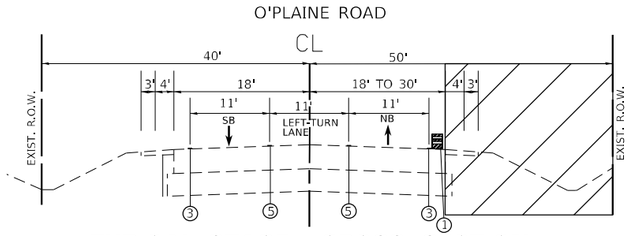
PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS FOR SUGGESTED STAGE I
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	26
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

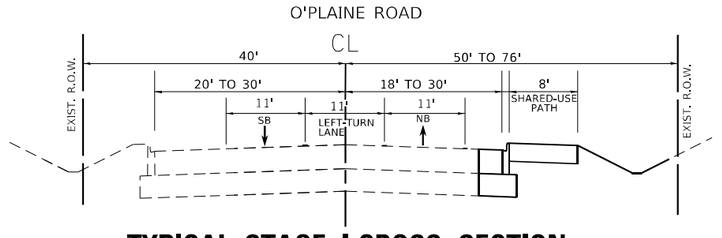


TYPICAL STAGE I CROSS SECTION

EXISTING

O'PLAINE ROAD

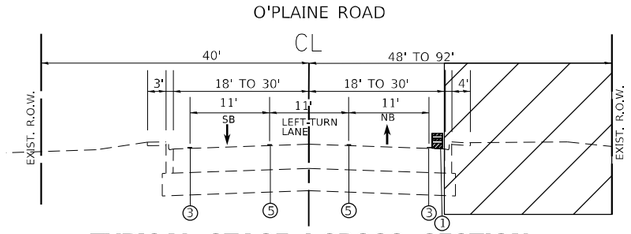
STATION 11+38 TO 14+28



TYPICAL STAGE I CROSS SECTION

PROPOSED

O'PLAINE ROAD

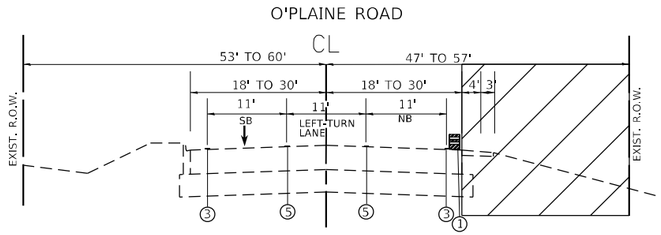


TYPICAL STAGE I CROSS SECTION

EXISTING

O'PLAINE ROAD

STATION 14+28 TO 22+00



TYPICAL STAGE I CROSS SECTION

EXISTING

O'PLAINE ROAD

STATION 22+00 TO 28+80

LEGEND

WORK AREA

① DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII

② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4" SOLID
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID

ROADWAY NOTE:

1. PAVEMENT MARKING REMOVAL - GRINDING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ALONG O'PLAINE ROAD

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS FOR SUGGESTED STAGE I
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	27
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

NOTE:

1. DIRECTION INDICATOR BARRICADES TO BE USED WITH STEADY BURN LIGHTS ON ALL LANE CLOSURE TAPERS

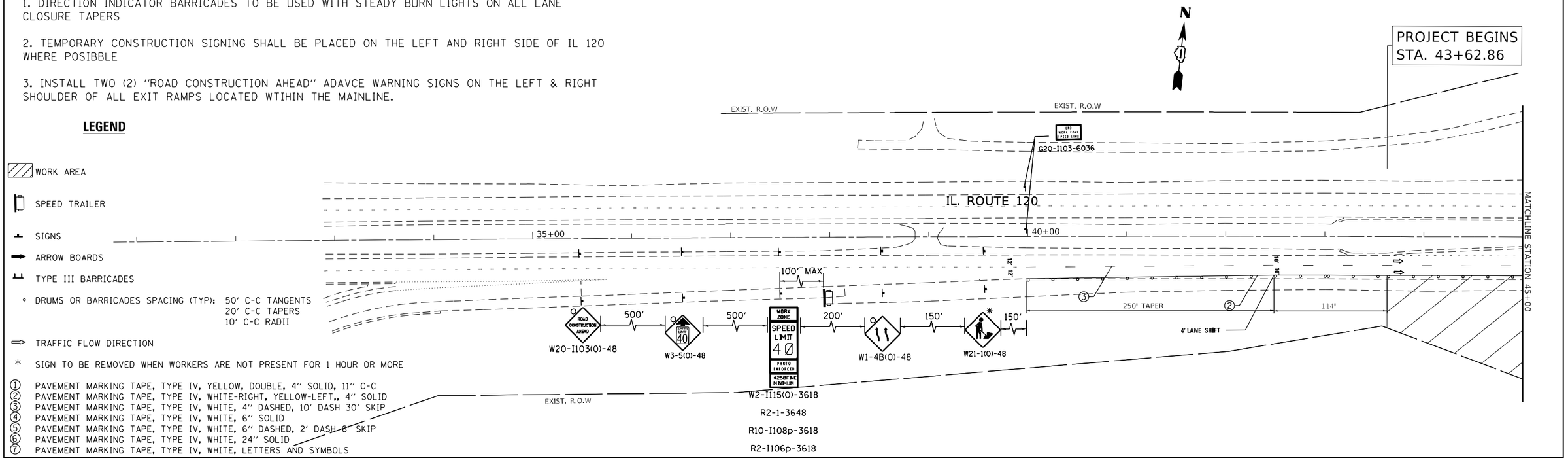
2. TEMPORARY CONSTRUCTION SIGNING SHALL BE PLACED ON THE LEFT AND RIGHT SIDE OF IL 120 WHERE POSIBBLE

3. INSTALL TWO (2) ''ROAD CONSTRUCTION AHEAD'' ADAVCE WARNING SIGNS ON THE LEFT & RIGHT SHOULDER OF ALL EXIT RAMPS LOCATED WTIHIN THE MAINLINE.

LEGEND

- WORK AREA
- SPEED TRAILER
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C RADII
- TRAFFIC FLOW DIRECTION
- * SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE

① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4'' SOLID, 11'' C-C
② PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4'' SOLID
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4'' DASHED, 10' DASH 30' SKIP
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' SOLID
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' DASHED, 2' DASH 6 SKIP
⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24'' SOLID
⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENACE OF TRAFFIC STAGE I
IL 120 AT O'PLAIINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	28
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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NOTE:

1. DIRECTION INDICATOR BARRICADES TO BE USED WITH STEADY BURN LIGHTS ON ALL LANE CLOSURE TAPERS

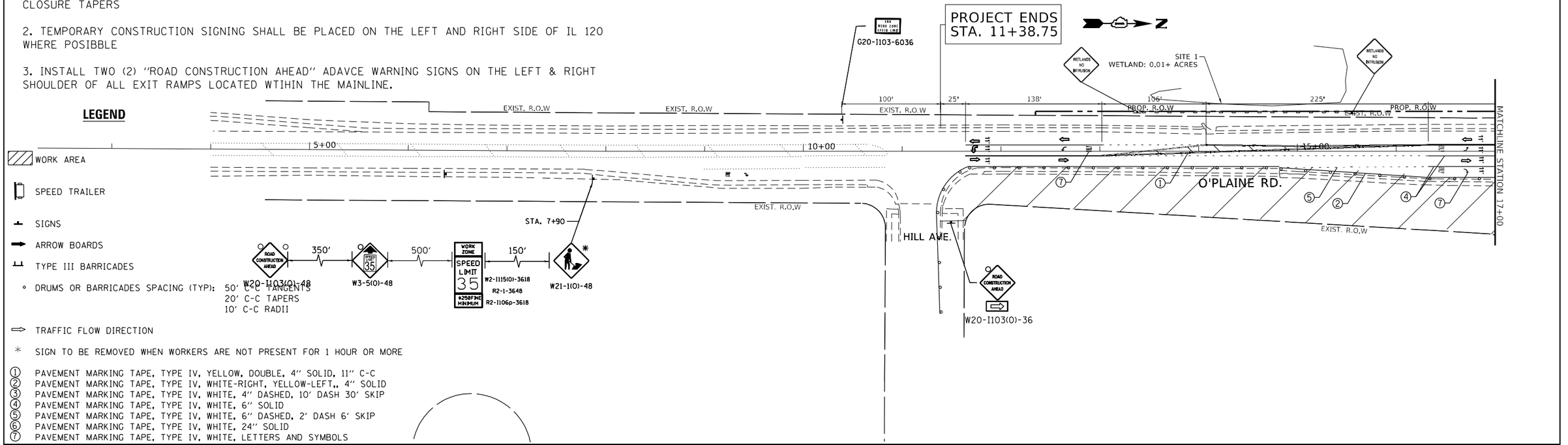
2. TEMPORARY CONSTRUCTION SIGNING SHALL BE PLACED ON THE LEFT AND RIGHT SIDE OF IL 120 WHERE POSIBBLE

3. INSTALL TWO (2) ''ROAD CONSTRUCTION AHEAD'' ADAVCE WARNING SIGNS ON THE LEFT & RIGHT SHOULDER OF ALL EXIT RAMPS LOCATED WTIHIN THE MAINLINE.

LEGEND

- WORK AREA
- SPEED TRAILER
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- ° DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C RADII
- TRAFFIC FLOW DIRECTION
- * SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE

① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4'' SOLID, 11'' C-C
② PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4'' SOLID
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4'' DASHED, 10' DASH 30' SKIP
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' SOLID
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' DASHED, 2' DASH 6' SKIP
⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24'' SOLID
⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENACE OF TRAFFIC STAGE I
IL 120 AT O'PLAIINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	29
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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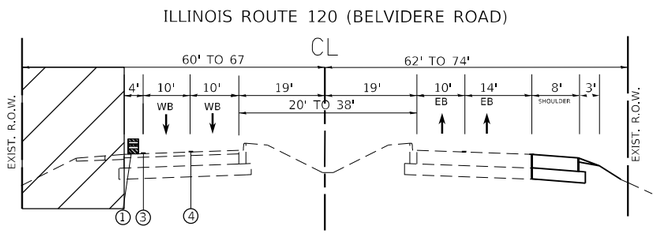
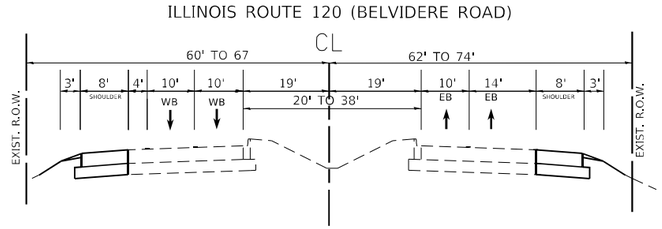


TYPICAL STAGE II CROSS SECTION

EXISTING

IL 120 (BELVIDERE ROAD)



TYPICAL STAGE II CROSS SECTION

PROPOSED

IL 120 (BELVIDERE ROAD)

ROADWAY NOTE:

1. PAVEMENT MARKING REMOVAL - WATER BLASTING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ALONG IL 120 ON FINAL SURFACES

LEGEND

WORK AREA

① DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII

② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4" SOLID
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID

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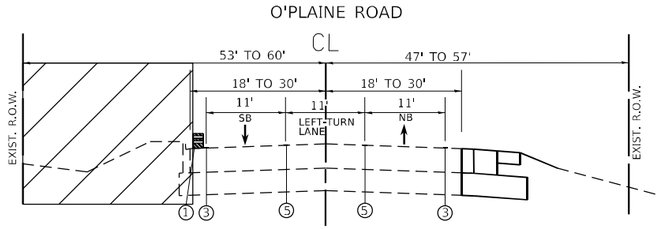
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

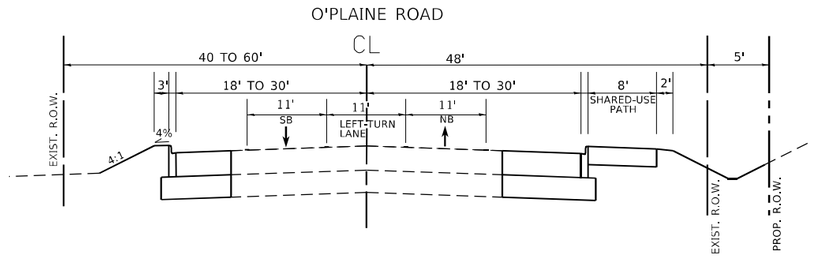
TYPICAL SECTIONS FOR SUGGESTED STAGE II
IL 120 AT O'PLAINE ROAD

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

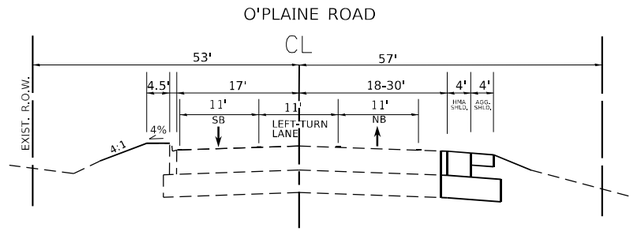
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	30
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



TYPICAL STAGE II CROSS SECTION
EXISTING
O'PLAINE ROAD
STATION 20+00 TO 28+80



TYPICAL STAGE II CROSS SECTION
PROPOSED
O'PLAINE ROAD
STATION 20+00 TO 24+25



TYPICAL STAGE II CROSS SECTION
PROPOSED
O'PLAINE ROAD
STATION 24+25 TO 28+80

ROADWAY NOTE:

1. PAVEMENT MARKING REMOVAL - GRINDING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ALONG O'PLAINE ROAD

LEGEND

WORK AREA

(1) DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII

(2) PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
(3) PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4" SOLID
(4) PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
(5) PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID

EXIST. R.O.W.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS FOR SUGGESTED STAGE II
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	31
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

NOTE:

1. DIRECTION INDICATOR BARRICADES TO BE USED WITH STEADY BURN LIGHTS ON ALL LANE CLOSURE TAPERS

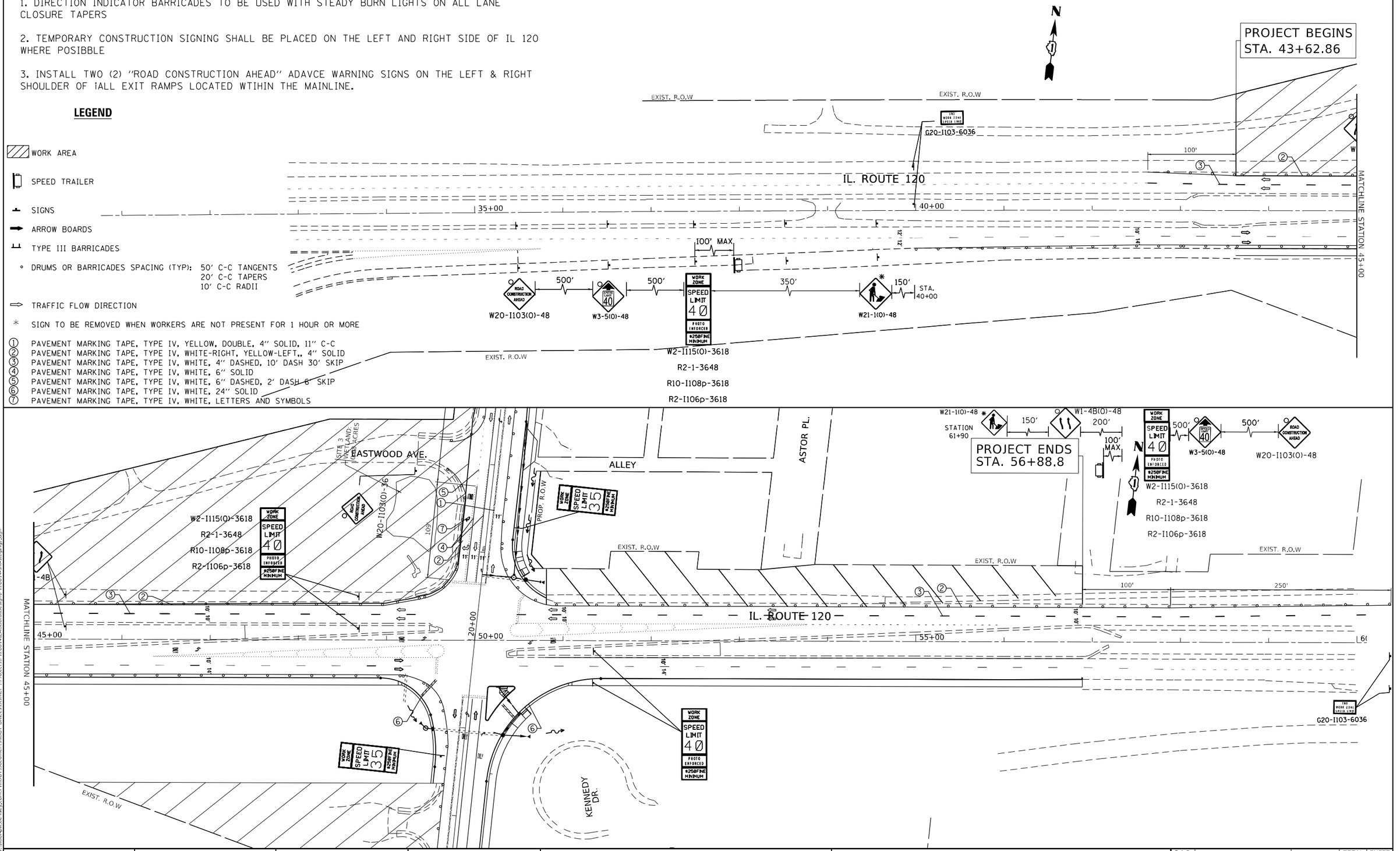
2. TEMPORARY CONSTRUCTION SIGNING SHALL BE PLACED ON THE LEFT AND RIGHT SIDE OF IL 120 WHERE POSIBBLE

3. INSTALL TWO (2) ''ROAD CONSTRUCTION AHEAD'' ADAVCE WARNING SIGNS ON THE LEFT & RIGHT SHOULDER OF iALL EXIT RAMPS LOCATED WTIHIN THE MAINLINE.

LEGEND

- WORK AREA
- SPEED TRAILER
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C RADII
- TRAFFIC FLOW DIRECTION
- * SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE

① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4'' SOLID, 11'' C-C
② PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4'' SOLID
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4'' DASHED, 10' DASH 30' SKIP
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' SOLID
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' DASHED, 2' DASH 6 SKIP
⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24'' SOLID
⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENACE OF TRAFFIC STAGE II
IL 120 AT O'PLAIINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	32
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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NOTE:

1. DIRECTION INDICATOR BARRICADES TO BE USED WITH STEADY BURN LIGHTS ON ALL LANE CLOSURE TAPERS

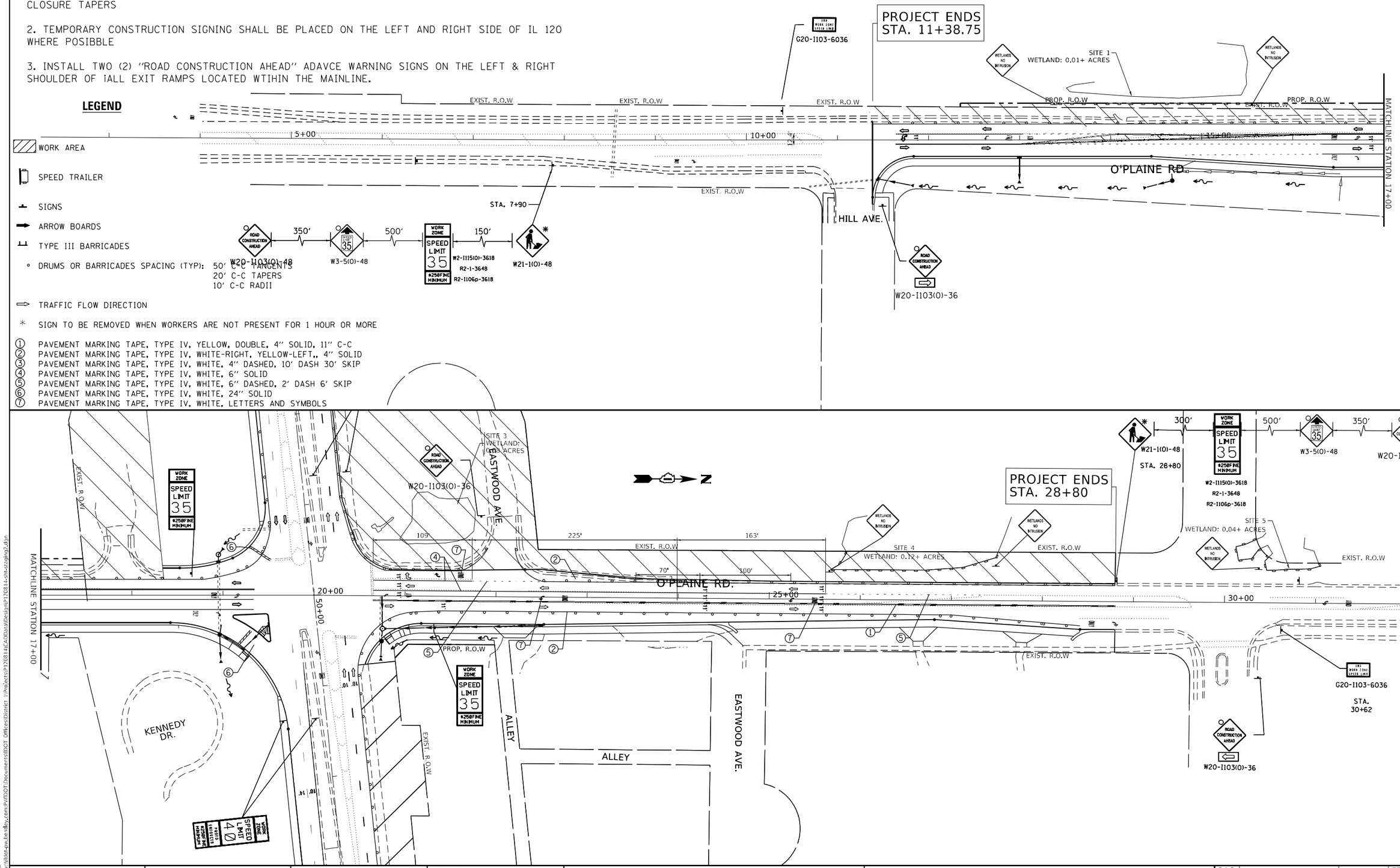
2. TEMPORARY CONSTRUCTION SIGNING SHALL BE PLACED ON THE LEFT AND RIGHT SIDE OF IL 120 WHERE POSIBBLE

3. INSTALL TWO (2) ''ROAD CONSTRUCTION AHEAD'' ADAVCE WARNING SIGNS ON THE LEFT & RIGHT SHOULDER OF iALL EXIT RAMPS LOCATED WTIHIN THE MAINLINE.

LEGEND

- WORK AREA
- SPEED TRAILER
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- ° DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C RADII
- TRAFFIC FLOW DIRECTION
- * SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE

① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4'' SOLID, 11'' C-C
② PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4'' SOLID
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4'' DASHED, 10' DASH 30' SKIP
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' SOLID
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' DASHED, 2' DASH 6' SKIP
⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24'' SOLID
⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENACE OF TRAFFIC STAGE II
IL 120 AT O'PLAIINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	33
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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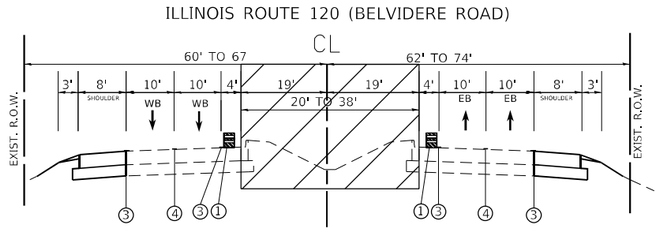
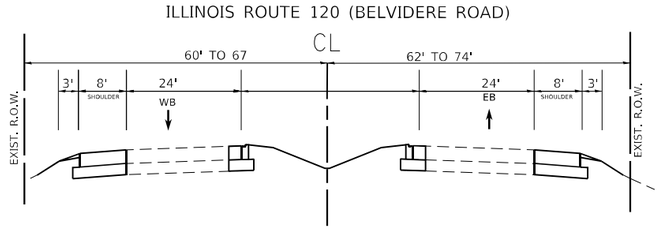


TYPICAL STAGE III CROSS SECTION

EXISTING

IL 120 (BELVIDERE ROAD)



TYPICAL STAGE III CROSS SECTION

PROPOSED

IL 120 (BELVIDERE ROAD)

ROADWAY NOTE:

1. PAVEMENT MARKING REMOVAL - WATER BLASTING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ALONG IL 120 ON FINAL SURFACES

LEGEND

WORK AREA

① DRUMS OR BARRICADES SPACING (TYP): 50′ C-C TANGENTS
20′ C-C TAPERS
10′ C-C RADII

② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4″ SOLID, 11″ C-C
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4″ SOLID
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4″ DASHED, 10′ DASH 30′ SKIP
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6″ SOLID

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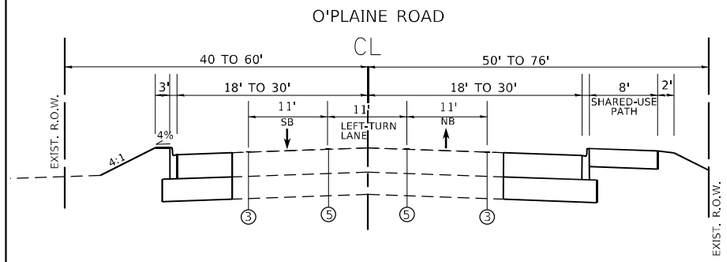
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS FOR SUGGESTED STAGE III
IL 120 AT O'PLAINE ROAD

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

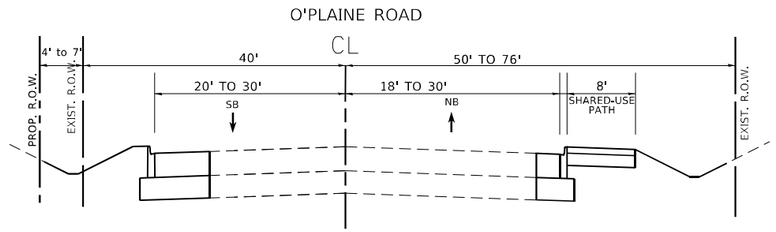
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	34
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



TYPICAL STAGE III CROSS SECTION

EXISTING

O'PLAINE ROAD

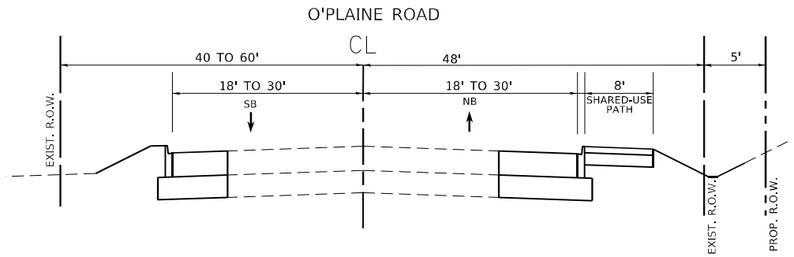


TYPICAL STAGE III CROSS SECTION

PROPOSED

O'PLAINE ROAD

STATION 11+38 TO 20+00



TYPICAL STAGE III CROSS SECTION

PROPOSED

O'PLAINE ROAD

STATION 20+00 TO 24+25

LEGEND

WORK AREA

① DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII

② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4" SOLID
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID

ROADWAY NOTE:

1. PAVEMENT MARKING REMOVAL - GRINDING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ALONG O'PLAINE ROAD

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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS FOR SUGGESTED STAGE III
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	35
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

NOTE:

1. DIRECTION INDICATOR BARRICADES TO BE USED WITH STEADY BURN LIGHTS ON ALL LANE CLOSURE TAPERS

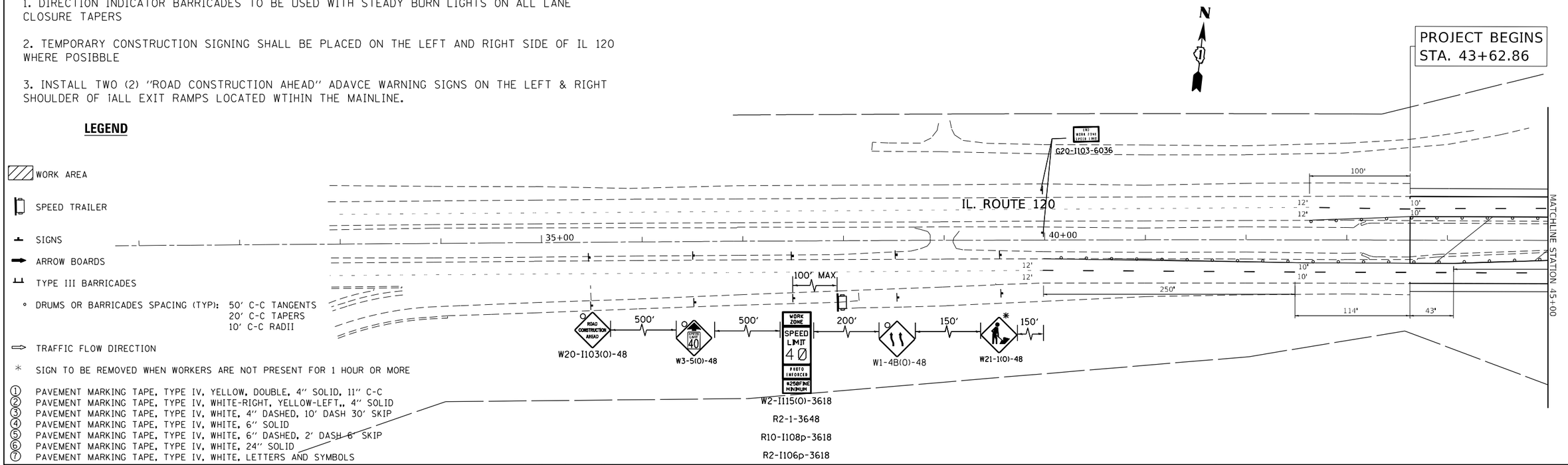
2. TEMPORARY CONSTRUCTION SIGNING SHALL BE PLACED ON THE LEFT AND RIGHT SIDE OF IL 120 WHERE POSIBBLE

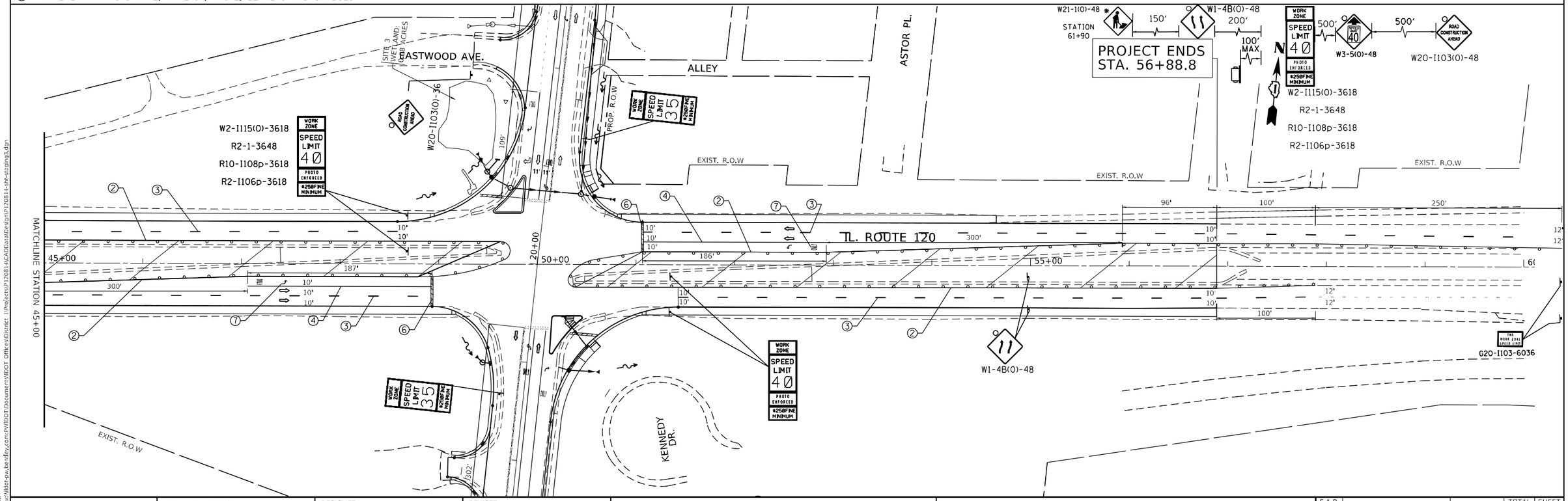
3. INSTALL TWO (2) ''ROAD CONSTRUCTION AHEAD'' ADAVCE WARNING SIGNS ON THE LEFT & RIGHT SHOULDER OF iALL EXIT RAMPS LOCATED WTIHIN THE MAINLINE.

LEGEND

- WORK AREA
- SPEED TRAILER
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- ° DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C RADII
- TRAFFIC FLOW DIRECTION
- * SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE

① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4'' SOLID, 11'' C-C
② PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4'' SOLID
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4'' DASHED, 10' DASH 30' SKIP
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' SOLID
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' DASHED, 2' DASH 6 SKIP
⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24'' SOLID
⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS





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	DRAWN -	REVISED -	
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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENACE OF TRAFFIC STAGE III
IL 120 AT O'PLAIINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	36
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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NOTE:

1. DIRECTION INDICATOR BARRICADES TO BE USED WITH STEADY BURN LIGHTS ON ALL LANE CLOSURE TAPERS

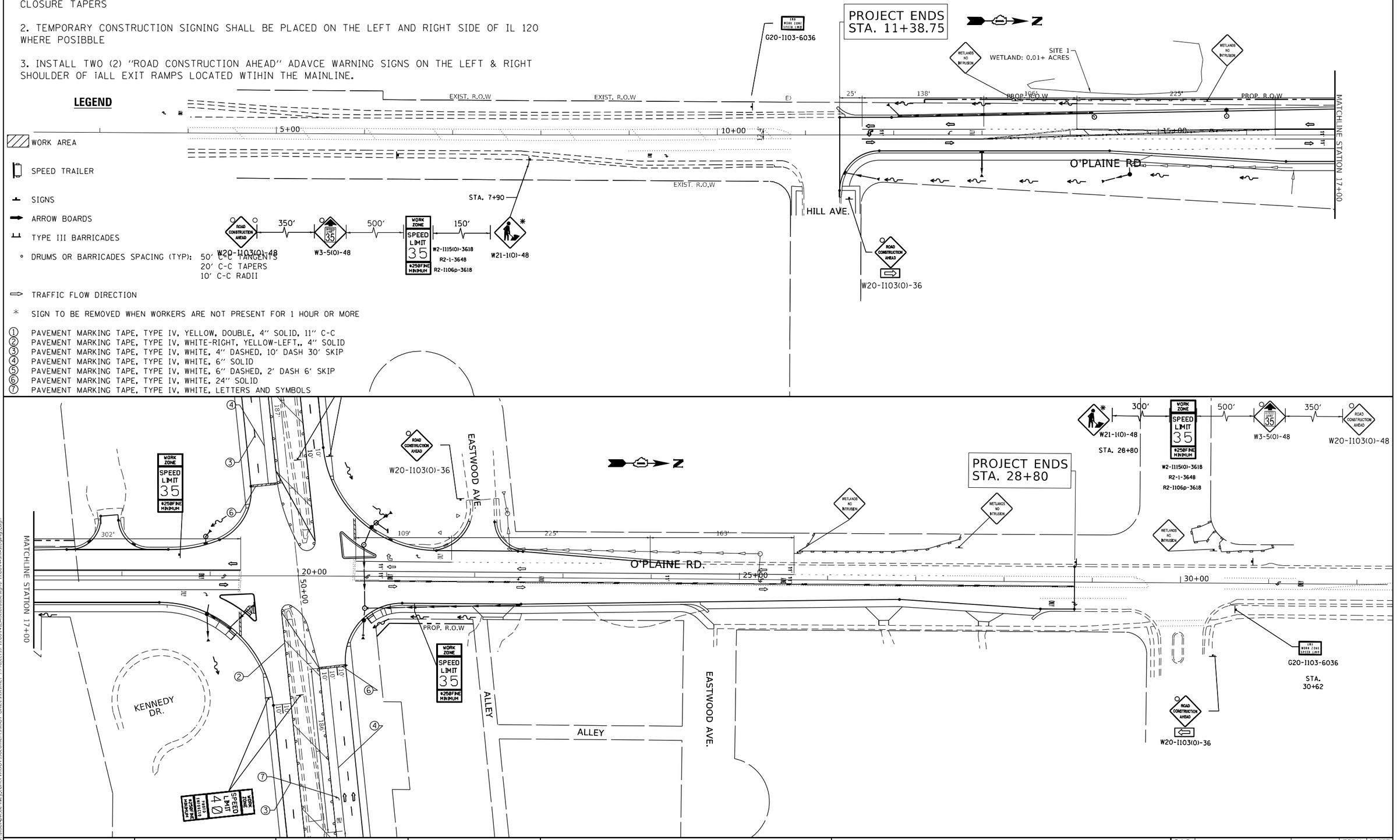
2. TEMPORARY CONSTRUCTION SIGNING SHALL BE PLACED ON THE LEFT AND RIGHT SIDE OF IL 120 WHERE POSIBBLE

3. INSTALL TWO (2) ''ROAD CONSTRUCTION AHEAD'' ADAVCE WARNING SIGNS ON THE LEFT & RIGHT SHOULDER OF iALL EXIT RAMPS LOCATED WTIHIN THE MAINLINE.

LEGEND

- WORK AREA
- SPEED TRAILER
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C RADII
- TRAFFIC FLOW DIRECTION
- * SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE

① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4'' SOLID, 11'' C-C
② PAVEMENT MARKING TAPE, TYPE IV, WHITE-RIGHT, YELLOW-LEFT,, 4'' SOLID
③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4'' DASHED, 10' DASH 30' SKIP
④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' SOLID
⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6'' DASHED, 2' DASH 6' SKIP
⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24'' SOLID
⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENACE OF TRAFFIC STAGE III
IL 120 AT O'PLAIINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	37
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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EROSION CONTROL GENERAL NOTES

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.

2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STORM DRAIN INLET FILTERS AND PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.

3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.

4. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT: www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control

5. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL CHECK ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.

7. THE CONTRACTOR SHALL PROVIDE THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

8. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.

9. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.

10. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

11. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RE. IF WETLANDS ARE UNDER WATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING A SUITABLE ALTERNATIVE FOR PROMOTING WATER QUALITY AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

12. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.

13. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIRED AS PART OF THE COST OF VARIOUS DRAINAGE STUCTURES.

14. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.

15. ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

16. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.

17. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THE PLANS ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.

18. ''WETLANDS NO INTRUSION'' SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.

19. PIPE PROTECTION SHOULD INCLUDE TEMPORARY DITCH CHECK AGGREGATE OR A ROLLED DITCH CHECK WRAPPED AROUND THE PIPE, REFER TO ILLINOIS URBAN MANUAL DETAIL IL-508ST AND HIGHWAY STANDARD 280001-07 FOR EXAMPLE. ILLINOIS URBAN MANUAL DETAIL IUM-562 GOES OVER INLET PROTECTION FOR ANY INLETS ON PAVEMENT. STRAW BALES ARE NOT PERMITTED.

20. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.5.A AND B OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BECONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

21. TRM/RIP RAP SHALL BE USED AROUND THE INLET AND OUTLETS OF THE CULVERTS AS AN EROSION CONTROL MEASUREMENT. COST SHALL BE INCLUDED IN THE PIPE END TREATMENTS.

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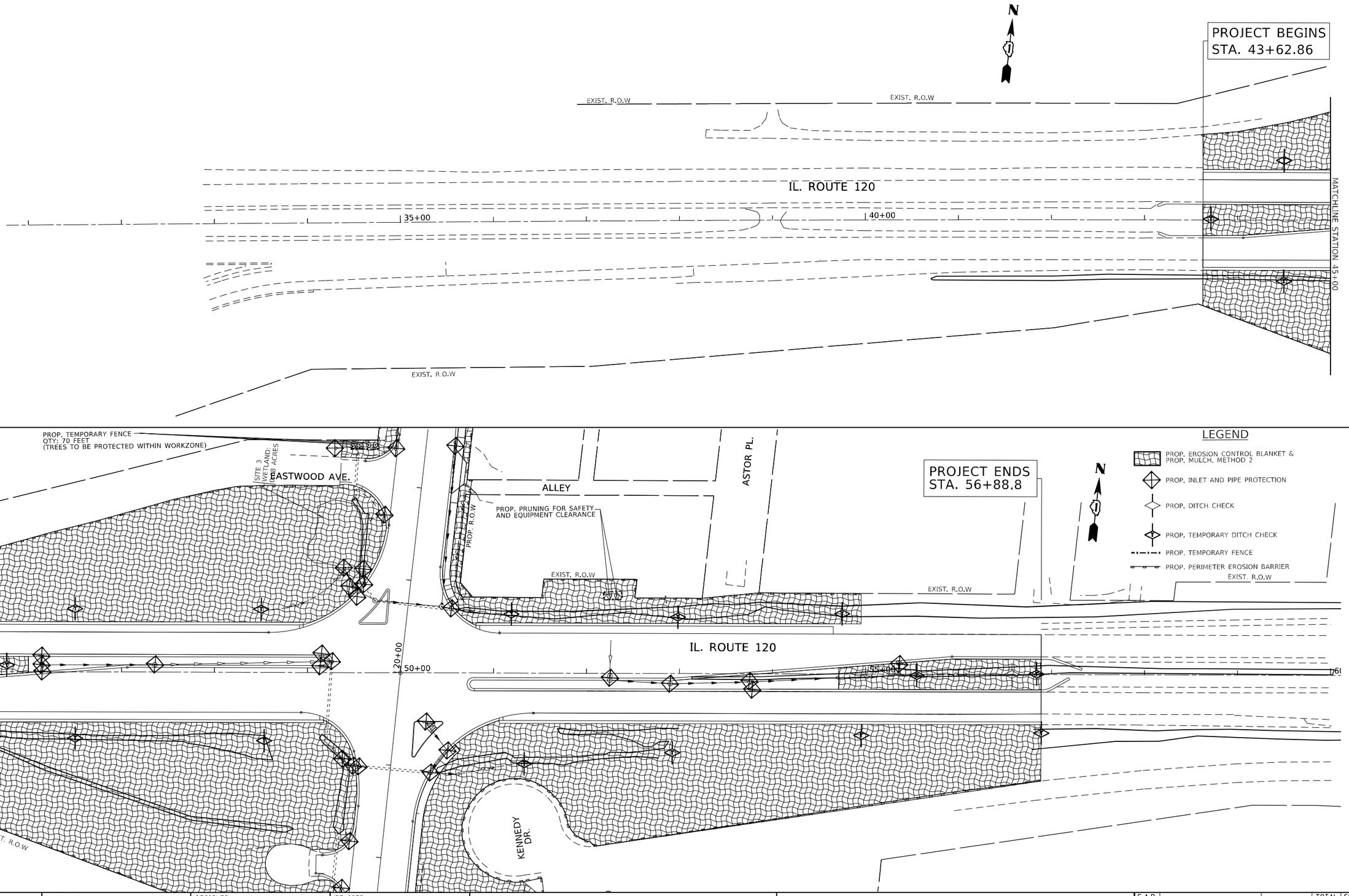
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 TO STA. 45+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	38
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 | TO STA. 45+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	39
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

PROJECT ENDS
STA. 11+38.75

N

SITE 1
WETLAND: 0.01+ ACRES

WETLANDS NO INTRUSION

EXIST. R.O.W

PROP. R.O.W

5+00

10+00

15+00

MATCHLINE STATION 17+00

O'PLAINE RD.

HILL AVE.

LEGEND

- PROP. EROSION CONTROL BLANKET & PROP. MULCH, METHOD 2
- PROP. INLET AND PIPE PROTECTION
- PROP. DITCH CHECK
- PROP. TEMPORARY DITCH CHECK
- PROP. TEMPORARY FENCE
- PROP. PERIMETER EROSION BARRIER

SITE 3
WETLAND: 0.18 ACRES

EASTWOOD AVE.

PROP. TEMPORARY FENCE
QTY: 70 FEET
(TREES TO BE PROTECTED WITHIN WORKZONE)

PROJECT ENDS
STA. 28+80

SITE 4
WETLAND: 0.12+ ACRES

SITE 5
WETLAND: 0.04+ ACRES

20+00

25+00

30+00

50+00

MATCHLINE STATION 17+00

KENNEDY DR.

ALLEY

PROP. PRUNING FOR SAFETY
AND EQUIPMENT CLEARANCE

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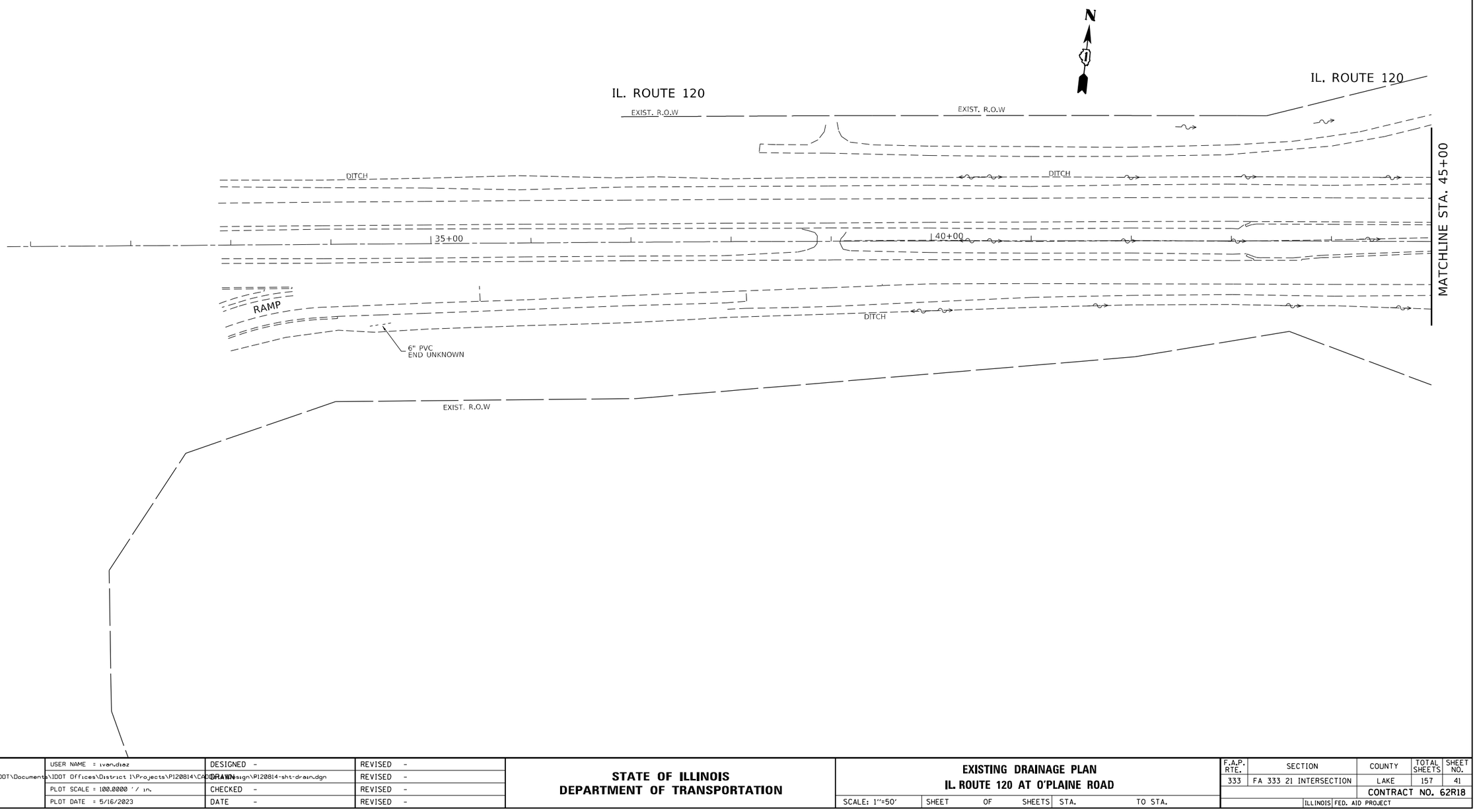
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 45+00 | TO STA. 56+88.8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	40
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	



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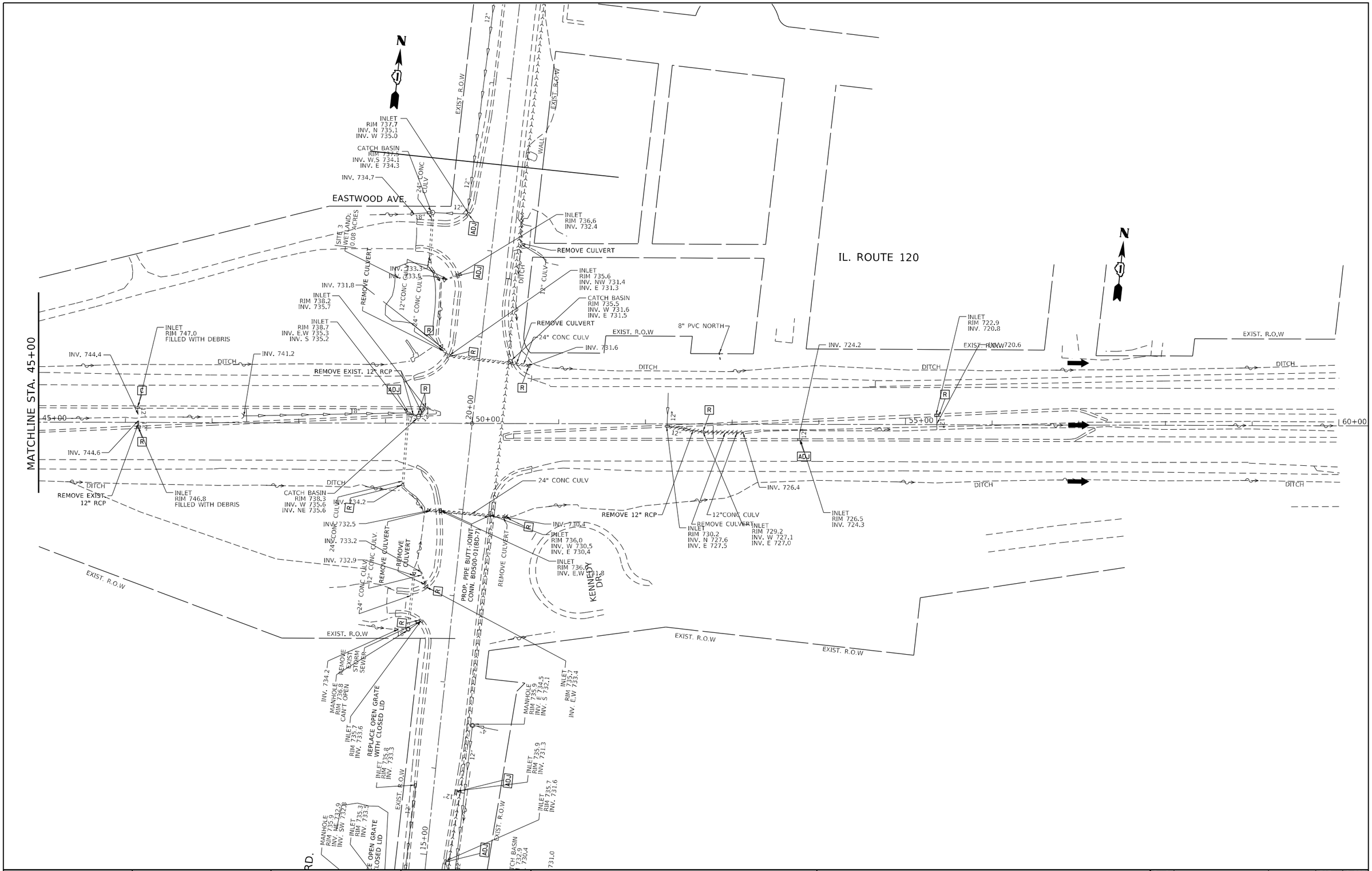
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	41
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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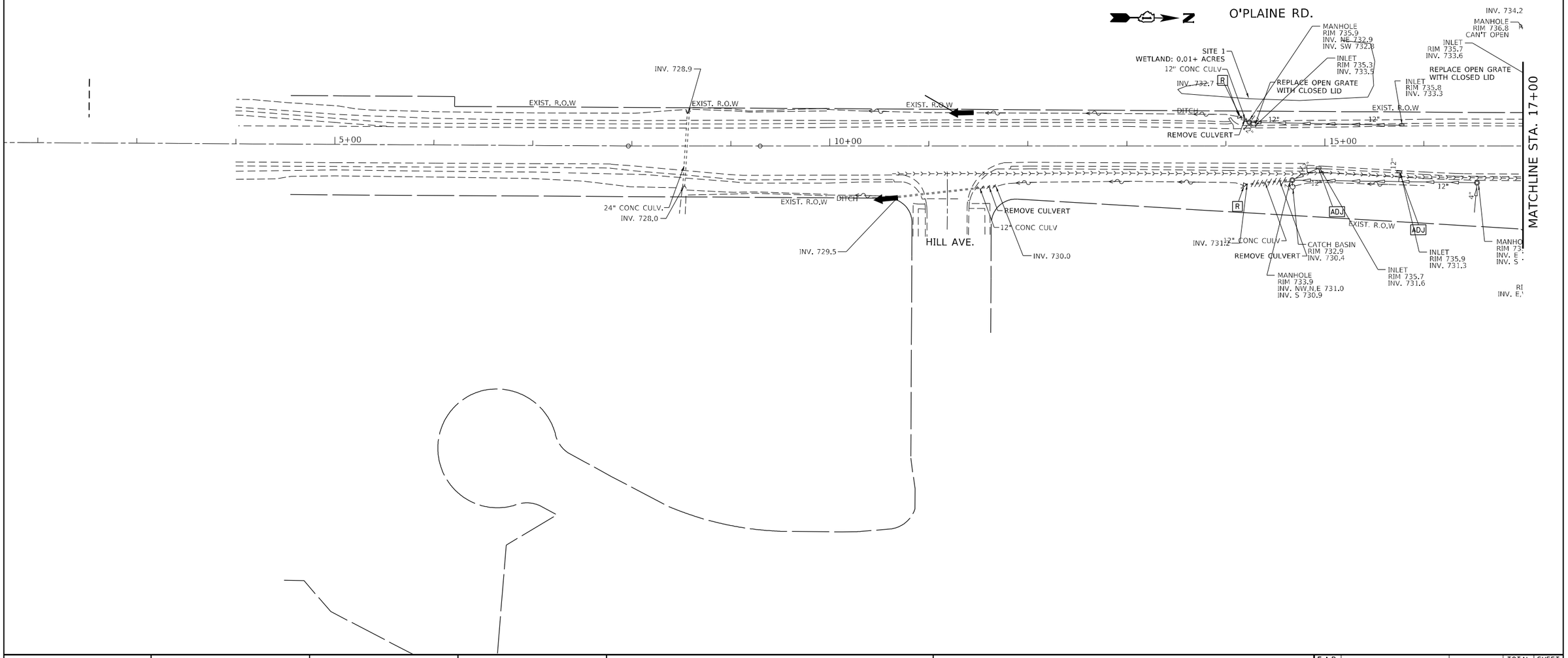
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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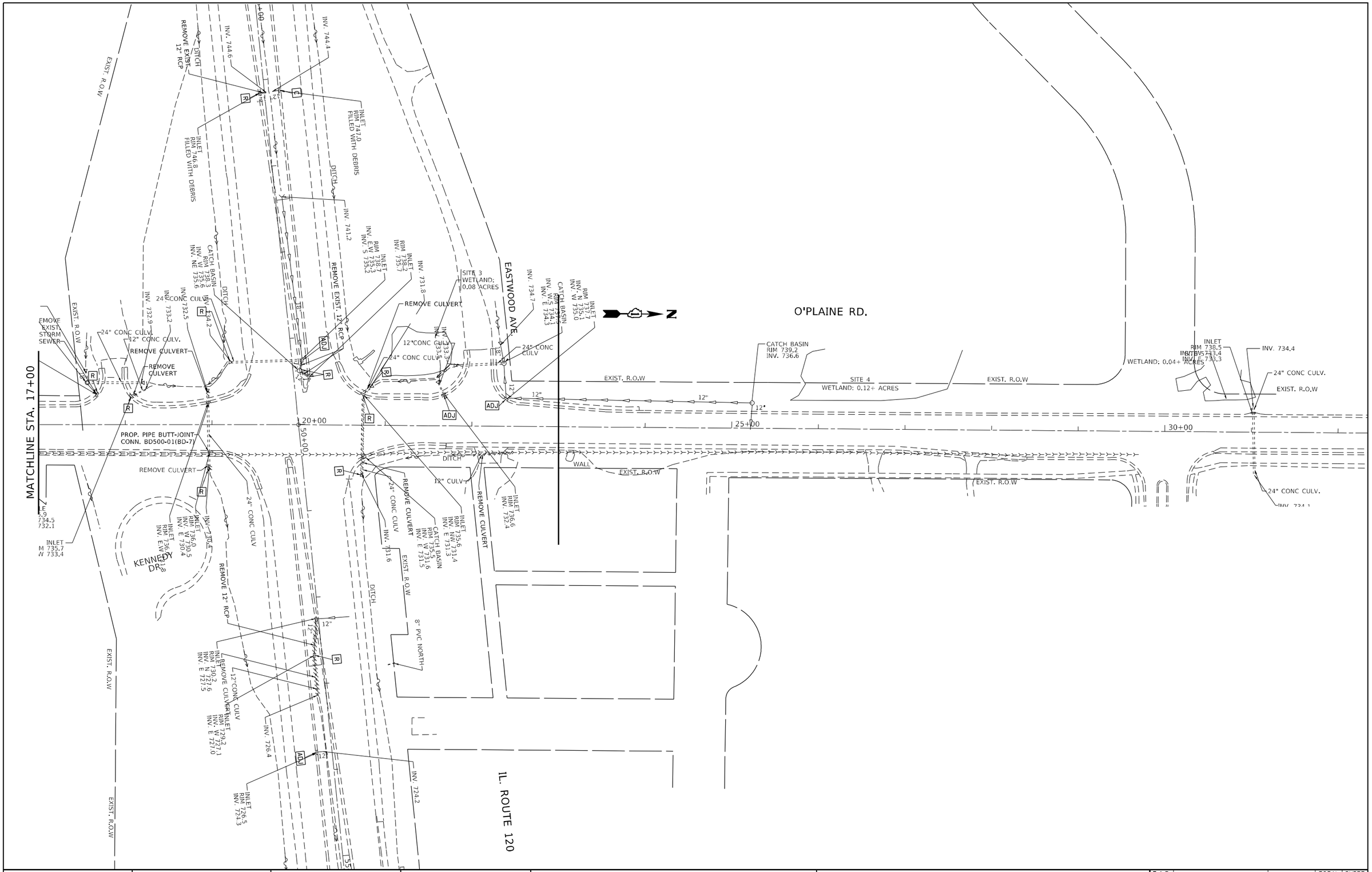
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN
IL ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	43
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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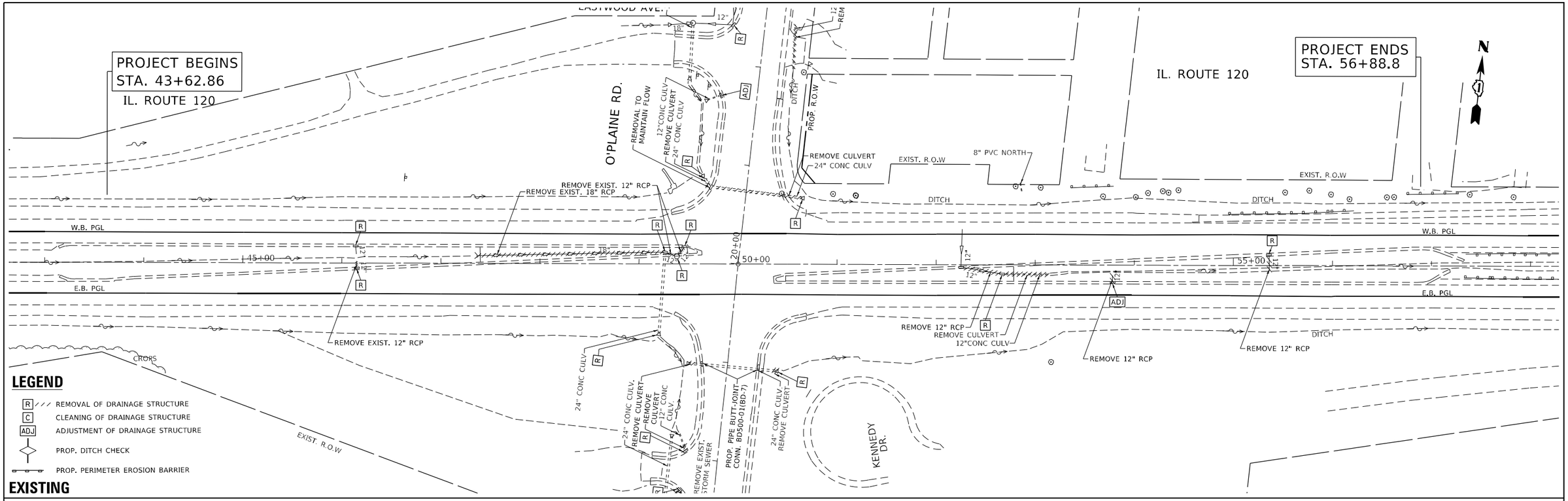
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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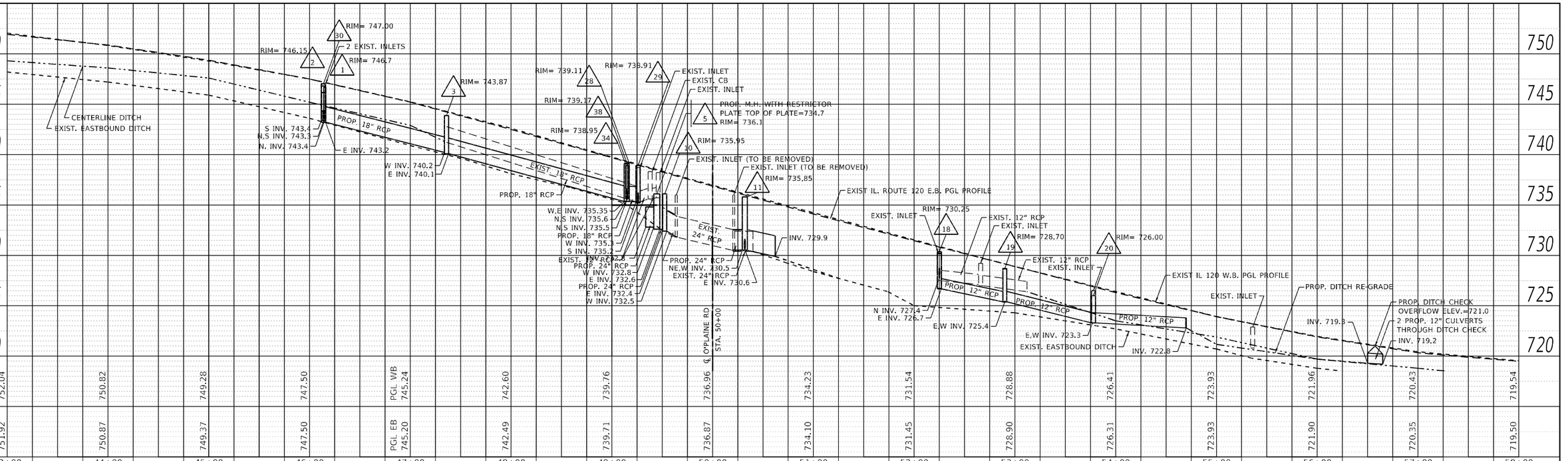
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

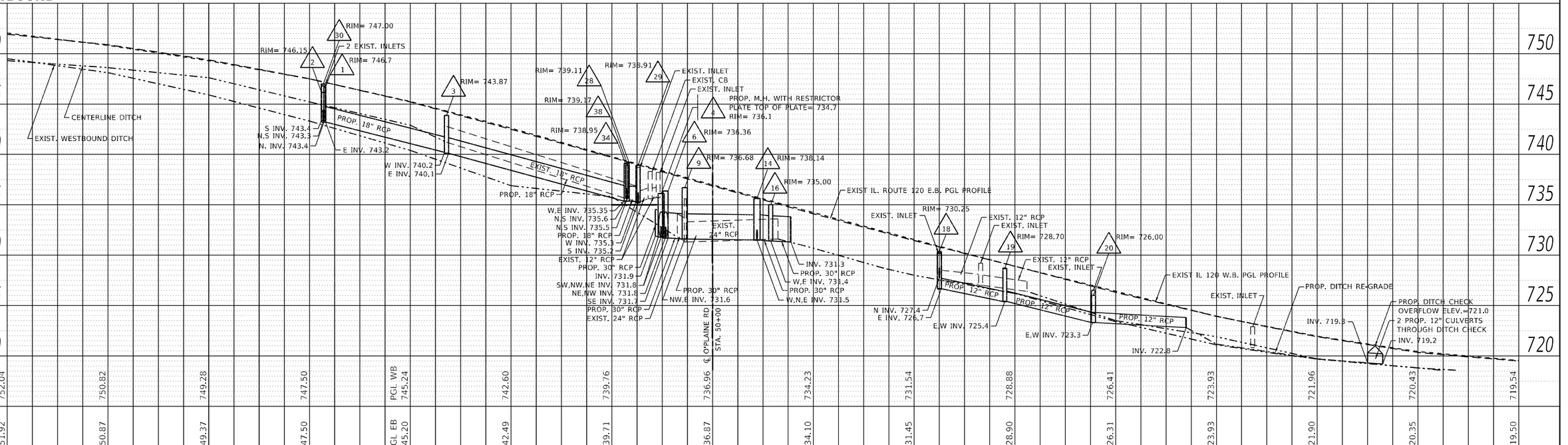
SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	45
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

EASTBOUND



WESTBOUND



PLAN / PROFILE

SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. CHECKED
BM. NOTED
STRUCTURE NO(S).

NOTE BOOK
NO.

BY
DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PROFILES
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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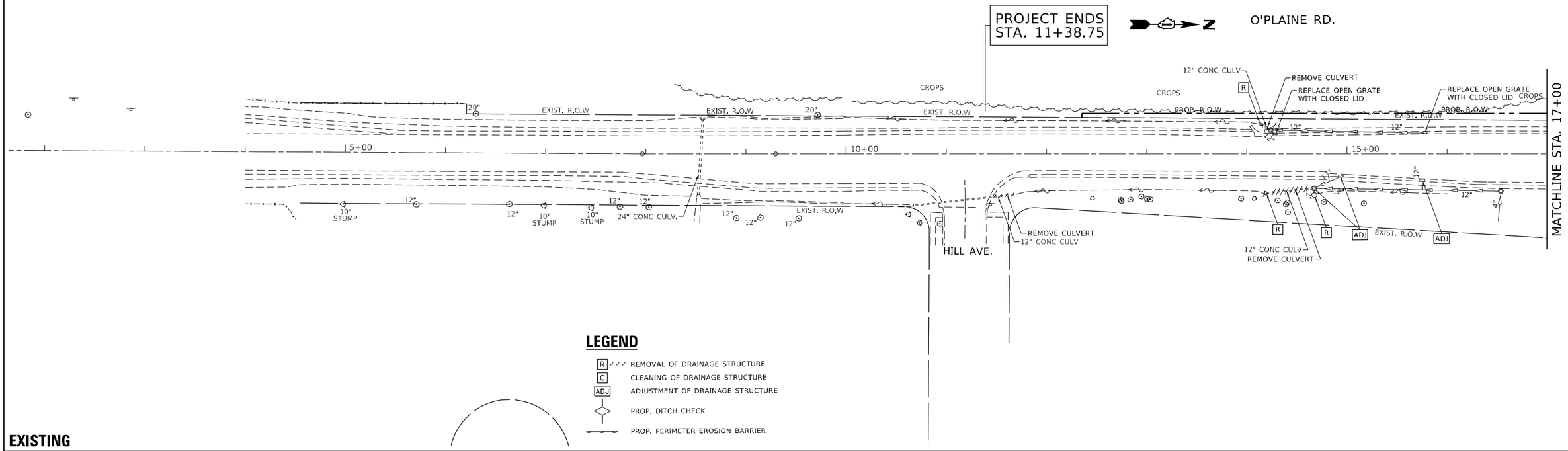
		ILLINOIS	FED. AID PROJECT	



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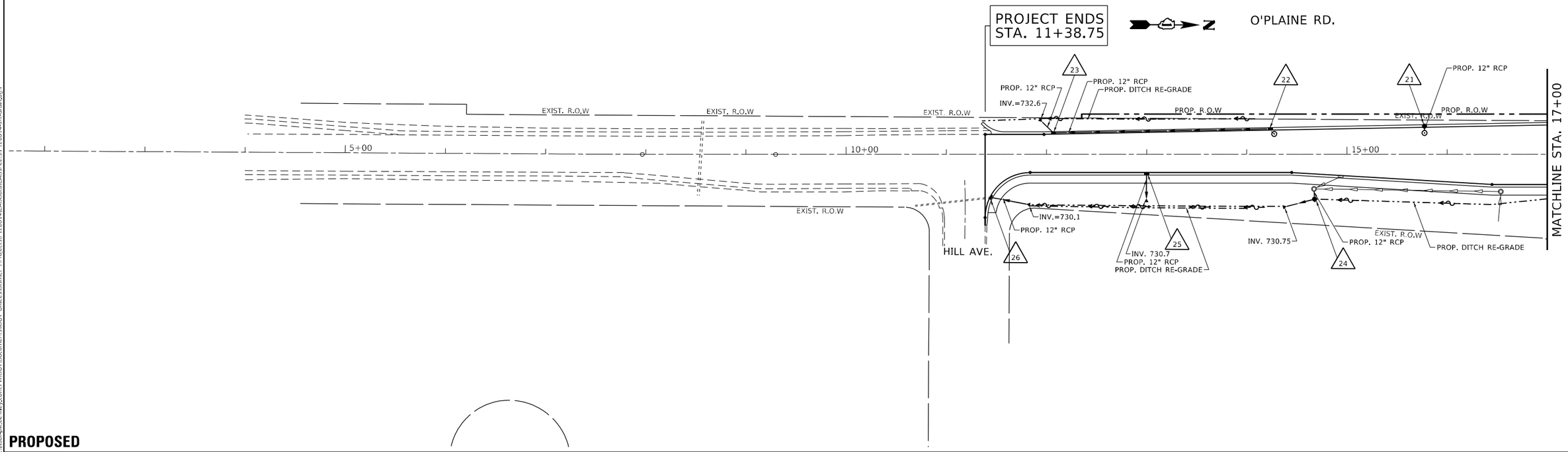

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	47
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

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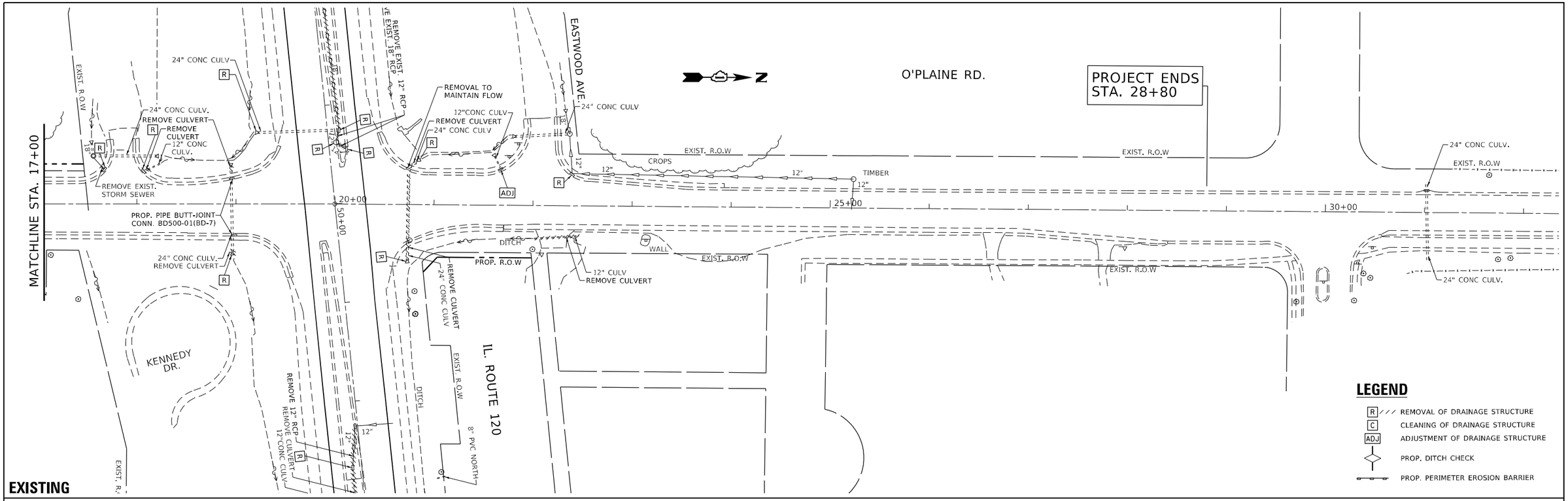

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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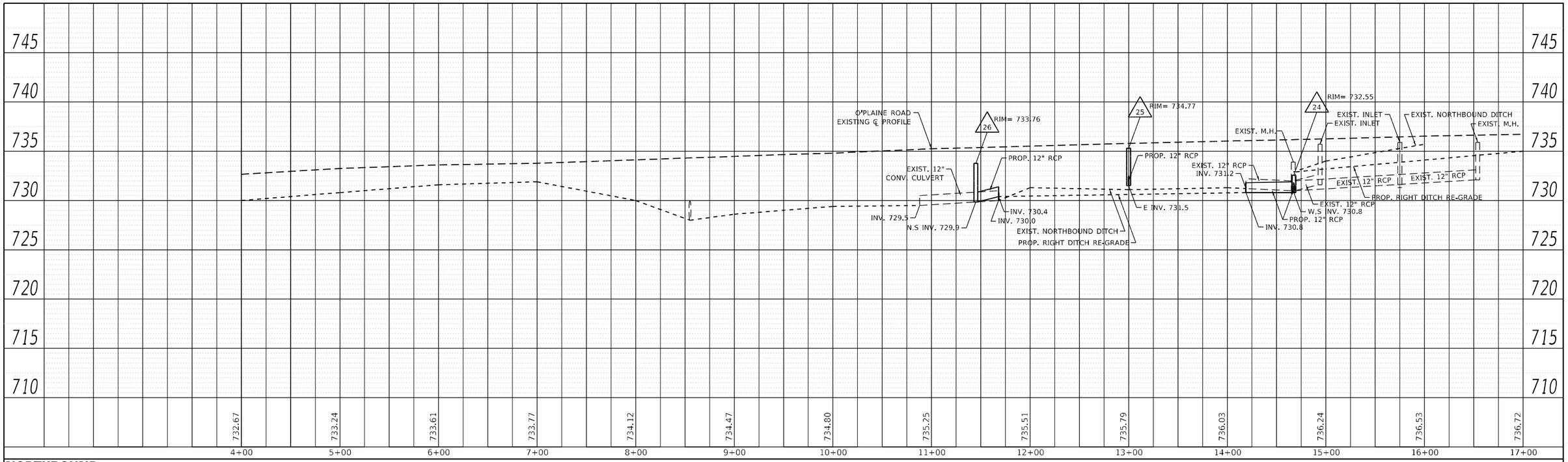
NORTHBOUND



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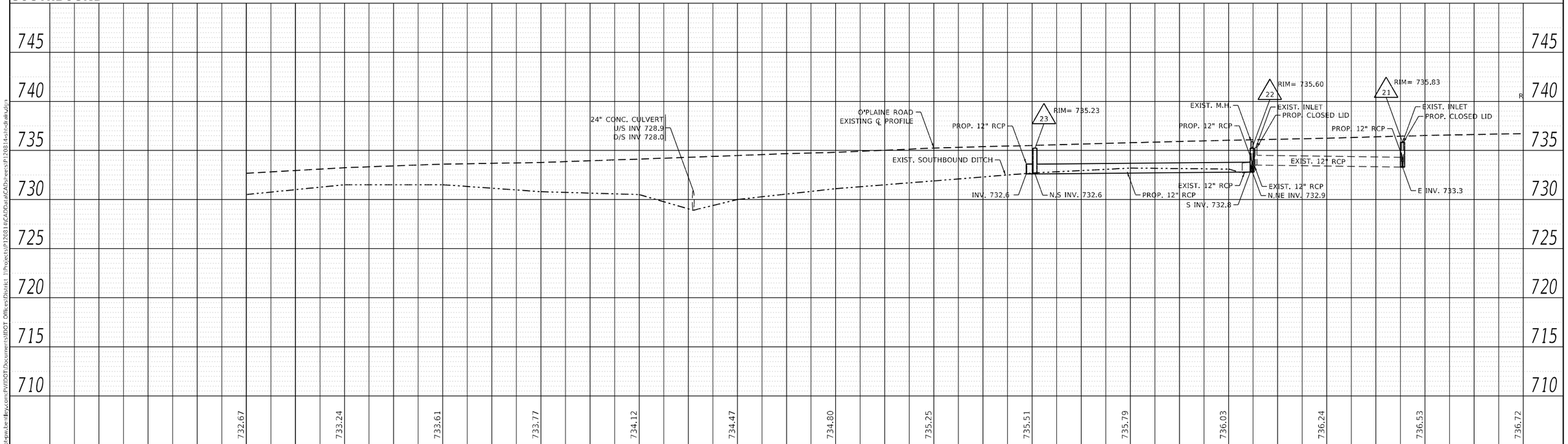

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
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GRADE CHECKED
DRA. NOTED
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NOTE BOOK
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USER NAME = ivan.diaz	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/30/2023	DATE -	REVISED -	

EXISTING AND PROPOSED DRAINAGE PROFILES
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	49
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

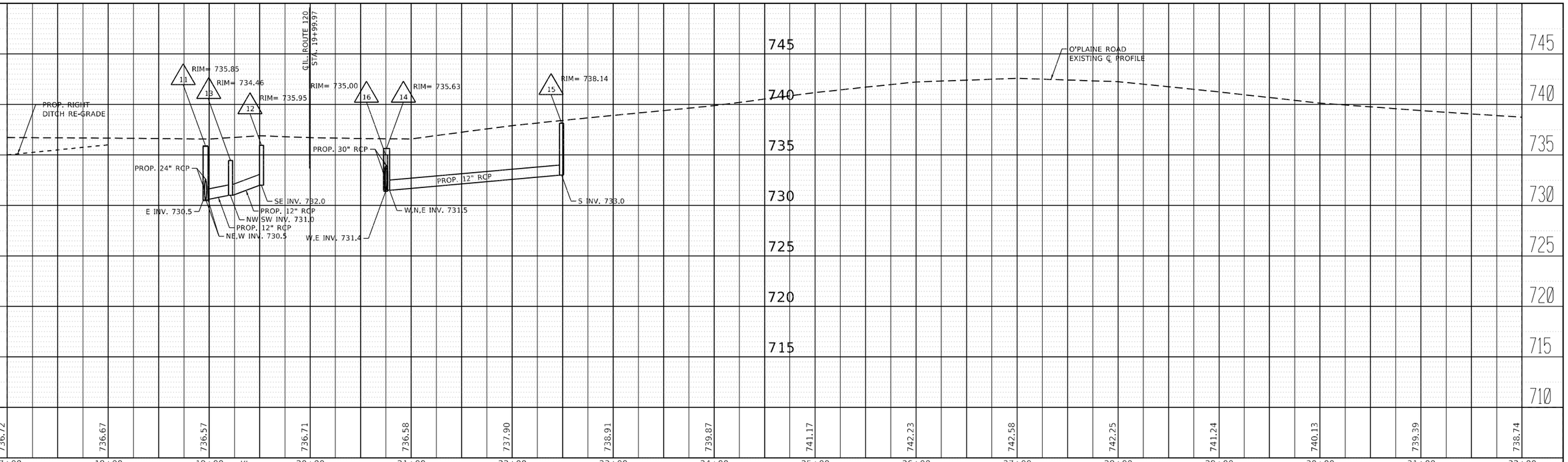
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO. ____
DATE
BY

745
740
735
730
725
720
715
710

736.72 | 736.67 | 736.57 | 736.71 | 736.58 | 737.90 | 738.91 | 739.87 | 741.17 | 742.23 | 742.58 | 742.25 | 741.24 | 740.13 | 739.39 | 738.74

17+00 | 18+00 | 19+00 | V/- | 20+00 | 21+00 | 22+00 | 23+00 | 24+00 | 25+00 | 26+00 | 27+00 | 28+00 | 29+00 | 30+00 | 31+00 | 32+00

NORTHBOUND



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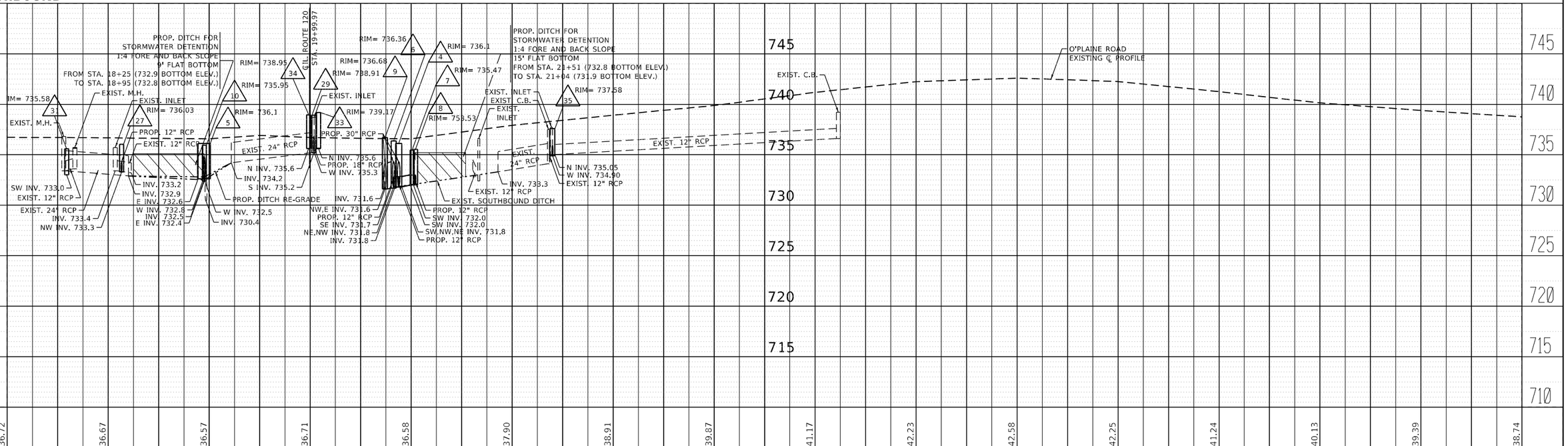

PROFILE
SURVEYED
PLOTTED
DESIGNED
CHECKED
S.M. NOTED
STRUCTURE NO
DATE
BY

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USER NAME = ivandiaz	DESIGNED ·	REVISED ·	
	DRAWN ·	REVISED ·	
PLOT SCALE = 100.0000 sf / in.	CHECKED ·	REVISED ·	
PLOT DATE = 5/30/2023	DATE ·	REVISED ·	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PROFILES
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	498
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

1
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 46+15.2, 1.3' RT
RIM = 746.7
INV. N = 743.4

2
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 46+15, 7.5' LT
RIM = 746.15
INV. N,S = 743.3
INV E = 743.2

3
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 47+36, 12.1' LT
RIM = 743.87
INV. E = 740.1
INV. W = 740.2

4
FLAT TOP
PROP. MANHOLE, TYPE A. 6' DIAMETER,
WITH 2 TYPE 8 GRATES,
RESTRICTOR PLATE AND 19" ORIFICE
STATION 20+87.8, 60.9' LT
RIM = 736.1
INV. SW, NW, NE = 731.8

5
FLAT TOP
PROP. MANHOLE, TYPE A. 6' DIAMETER,
WITH 2 TYPE 8 GRATES,
RESTRICTOR PLATE AND 22" ORIFICE
STATION 18+95.1, 44.9' LT
RIM = 736.1
INV. W = 732.8
INV. E = 732.6

6
FLAT TOP
PROP. CATCH BASINS, TYPE A, 5'-DIAMETER,
TYPE 24 FRAME AND GRATE
STATION 20+82.7, 55.9' LT
RIM = 736.36
INV. SE = 731.7
INV. NE, NW = 731.8

7
PROP. CATCH BASINS, TYPE C,
TYPE 8 GRATE
STATION 21+01.1, 52.0' LT
RIM = 735.47
INV. SW = 732.0

8
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 21+04.3, 42.0' LT
RIM = 735.53
INV. SW = 732.0

9
FLAT TOP
PROP. MANHOLES, TYPE A, 5'-DIAMETER,
TYPE 1 FRAME, CLOSED LID
STATION 20+74.1, 35.8' LT
RIM = 736.68
INV. NW, E = 731.6

10
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 18+95.3, 37.7' LT
RIM = 735.95
INV. W = 732.4
INV. E = 732.4

11
FLAT TOP
PROP. CATCH BASINS, TYPE A, 5'-DIAMETER,
TYPE 24 FRAME AND GRATE
STATION 18+96.5, 44.0' RT
RIM = 735.85
INV. E = 730.5
INV. NE, W = 730.6

12
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 19+51.9, 31.7' RT
RIM = 735.95
INV. SE = 732.0

13
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 24 FRAME AND GRATE
STATION 19+21.2, 59.7' RT
RIM = 734.46
INV. NW, SW = 731.0

14
FLAT TOP
PROP. MANHOLES, TYPE A, 6'-DIAMETER,
TYPE 1 FRAME, CLOSED LID
STATION 20+75.7, 36.0' RT
RIM = 735.63
INV. W, N, E = 731.5

15
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 22+49.0, 31.1' RT
RIM = 738.14
INV. S = 733.0

16
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 20+74.8, 49.9' RT
RIM = 735.00
INV. W, E = 731.4

17
FLAT TOP
PROP. MANHOLES, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, CLOSED LID
STATION 52+25.2, 2.2' RT
RIM = 730.37
INV. N =727.6
INV. S = 727.5

18
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 24 FRAME AND GRATE
STATION 52+25.2, 7.1' RT
RIM = 730.25
INV. N = 727.4
INV. E = 726.7

19
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 52+90.0, 11.0' RT
RIM = 728.70
INV. W, E = 725.4

20
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 53+78.0, 8.7' RT
RIM = 726.00
INV. W, E = 723.3

21
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 15+77.1, 28.0' LT
RIM = 735.83
INV. E = 733.3

22
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 14+23.7, 24.2' LT
RIM = 735.60
INV. N, NE = 732.9
INV. S = 732.8

23
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 24 FRAME AND GRATE
STATION 12+06.9, 22.4' LT
RIM = 735.23
INV. N, SW = 732.6

24
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 8 GRATE
STATION 14+67.6, 44.6' RT
RIM = 732.55
INV. W, S = 730.8

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED STRUCTURES TABLE
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	50
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

25
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 12+99.9, 19.0' RT
RIM = 734.77
INV. E = 731.5

26
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 24 FRAME AND GRATE
STATION 11+45.6, 43.0' RT
RIM = 733.76
INV. N, S = 729.9

27
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 18+13.3, 36.0' LT
RIM = 736.03
INV. NW = 733.3

28
FLAT TOP
PROP. CATCH BASINS, TYPE A, 5'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 49+14.9, 12.1' LT
RIM = 739.11
INV. N, S = 735.5
INV. W, E = 735.35

29
FLAT TOP
PROP. CATCH BASINS, TYPE A, 4'-DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 49+26.1, 12.0' LT
RIM = 738.91
INV. W = 735.3
INV. S = 735.2

30
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 46+13.8, 18.1' LT
RIM = 747.00
INV. S = 743.4

31
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 17+58.9, 36.1' LT
RIM = 735.58
INV. SW = 733.0

32
PROP. CATCH BASINS, TYPE C,
TYPE 1 FRAME, OPEN LID
STATION 55+35.7, 13.4' LT
RIM = 723.03
INV. S = 721.0

33
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 49+15.0, 18.0' LT
RIM = 739.17
INV. S = 735.6

34
PROP. CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE
STATION 49+15, 6.0' LT
RIM = 738.95
INV. N = 735.6

35
FLAT TOP
PROP. CATCH BASINS, TYPE A, 5' DIAMETER,
TYPE 1 FRAME, OPEN LID
STATION 22+39.9, 33.3' LT
RIM = 737.58
INV. N = 735.05
INV. W = 734.90

DRAINAGE PIPE TABLE

Pipe #	FROM STRUCTURE	TO STRUCTURE	PIPE DIAMETER (IN.)	LENGTH (FT.)	SLOPE (%)	TRENCH BACKFILL (CY)
1	1	2	12	9.3	1.28%	1.8
2	2	3	18	118.6	2.56%	32.8
3	33	28	12	4.0	4.03%	0.6
4	34	28	12	4.1	3.88%	0.6
5	8	6	12	23.8	0.90%	7.7
6	DITCH INLET	4	30	18.3	0.60%	0.0
7	7	4	12	13.6	1.67%	3.8
8	4	6	30	4.3	0.00%	1.3
9	6	9	30	17.2	0.64%	10.0
10	9	14	30 EQUIVALENT	68.0	0.15%	42.0
11	14	16	30 EQUIVALENT	6.7	1.94%	3.0
12	16	DITCH OUTLET	30 EQUIVALENT	22.5	0.48%	0.0
13	12	13	12	39.7	2.62%	12.0
14	13	11	12	26.3	1.61%	9.0
15	EX. STRUC.	11	24	11.2	2.32%	2.1
16	11	DITCH OUTLET	24	28.6	2.22%	3.9
17	18	19	12	62.5	2.13%	17.4
18	19	20	12	83.6	2.56%	20.1
19	20	DITCH OUTLET	12	93.7	0.54%	0.0
20	DITCH INLET	5	24	6.1	0.00%	0.0
21	5	10	24	3.8	9.05%	0.5
22	10	EX. STRUC.	24	13.5	2.32%	2.4
23	21	EX. STRUC.	12	5.9	0.00%	0.0
24	EX. STRUC.	24	12	8.1	3.03%	0.0
25	24	DITCH OUTLET	12	28.4	0.19%	0.0
26	22	23	12	214.2	0.09%	45.6
27	25	DITCH OUTLET	12	23.3	3.68%	0.0
28	DITCH INLET	26	12	24.5	0.87%	0.0
29	23	DITCH OUTLET	12	17.2	0.00%	3.6
30	3	28	18	176.0	2.72%	57.7
31	28	29	18	7.8	0.80%	1.8
32	30	2	12	9.2	1.31%	1.9
33	15	14	12	171.0	0.89%	106.8
34	17	18	12	2.3	13.33%	0.1
35	31	DITCH OUTLET	12	4.5	0.90%	2.5
36	EX. STRUC.	20	12	7	14.90%	0.5

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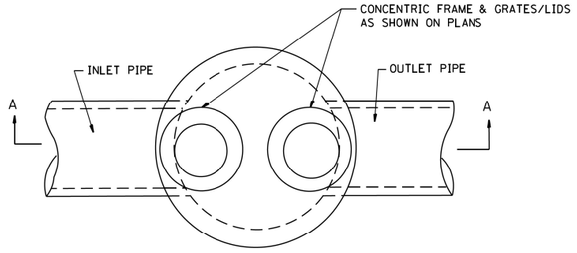
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

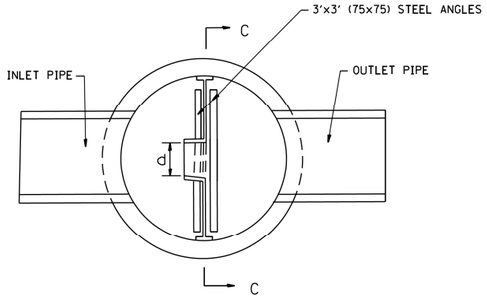
PROPOSED STRUCTURES TABLE
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

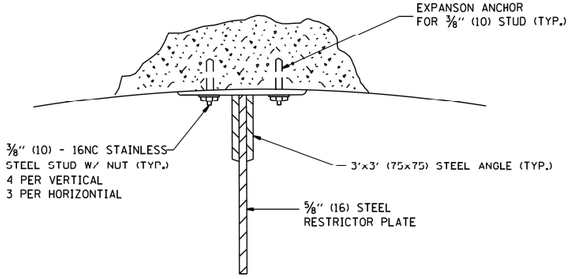
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	51
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



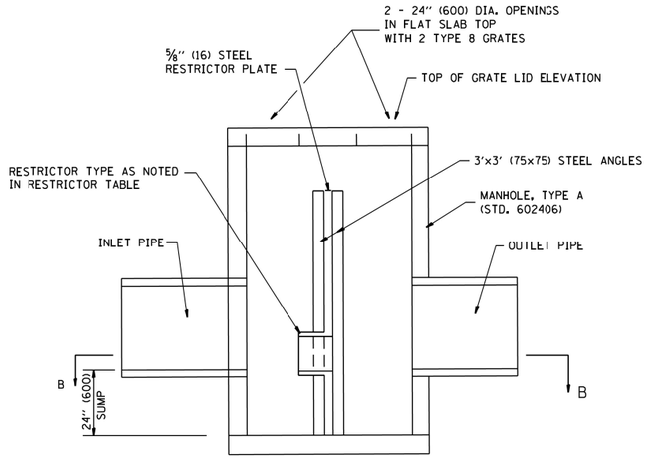
PLAN



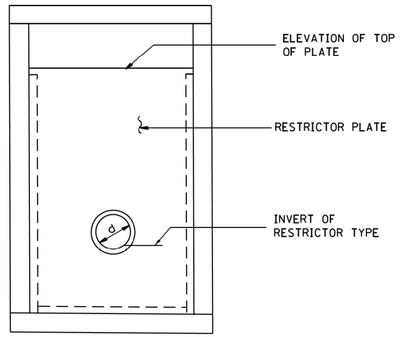
SECTION B-B



ANGLE FASTENER DETAIL



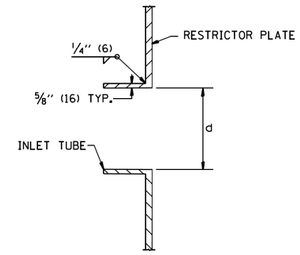
SECTION A-A



SECTION C-C

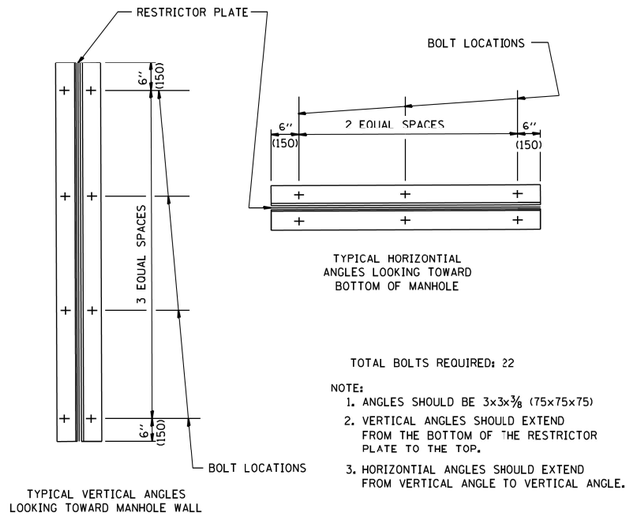
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES ,TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 8 GRATE, OPEN LID, RESTRICTOR PLATE" EACH



INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
O'Plaine Rd 18+96	6 FEET	TYPE 8 GRATE	SHARP EDGED	19 INCHES	732.8	734.7
O'Plaine Rd 20+84	6 FEET	TYPE 8 GRATE	SHARP EDGED	22 INCHES	731.8	734.4



TYPICAL VERTICAL ANGLES
LOOKING TOWARD MANHOLE WALL

TYPICAL HORIZONTIAL
ANGLES LOOKING TOWARD
BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

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

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.60	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

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

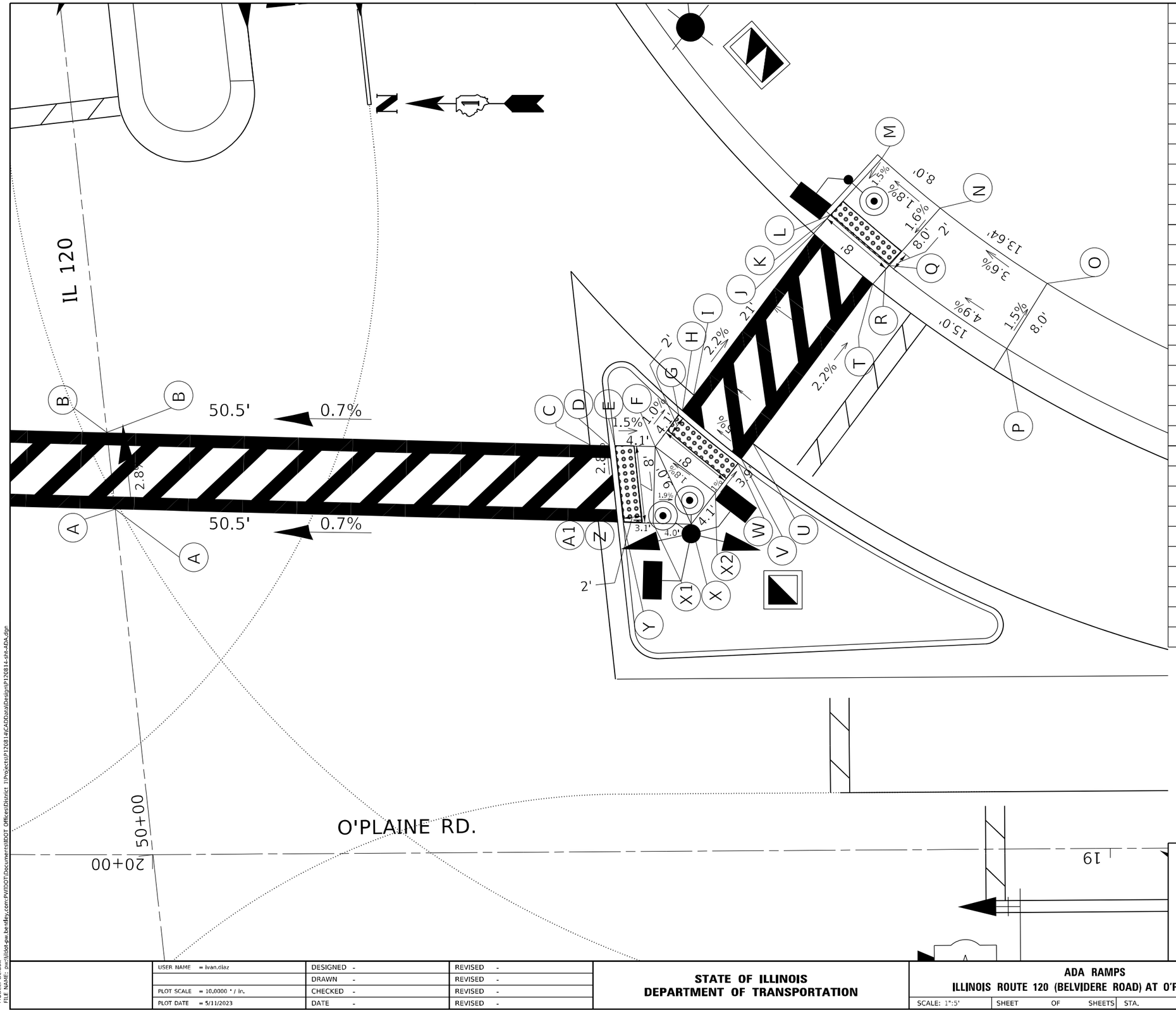
FILE NAME = S:\WP\HYD\consultant\KO\Location Drainage Study\P-91-208-14 IL 120 at O'Plaine\Exhibits\Restrictor Manhole Detail.dgn	USER NAME = olsonkd	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
	PLOT SCALE = 100.000 ' / in.	DRAWN - E. GOMEZ 08-28-00	REVISED - E. GOMEZ 08-28-00
	PLOT DATE = 10/16/2019	CHECKED - M. GOMEZ 01-08-01	REVISED - M. GOMEZ 01-08-01
		DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROL STRUCTURE SCHEMATIC
O'PLAINE ROAD AT STATION 18+96 AND STATION 20+84

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	52
	BD600-04 (BD-12)	CONTRACT NO. 62R18		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



	STATION	OFFSET	ELEVATION
A	50+36.3	00.0' R	735.69
B	50+44.3	00.0' R	735.47
C	50+37.6	50.0' R	735.81
D	50+37.3	52.0' R	735.72
E	50+37.2	52.7' R	735.76
F	50+36.7	56.7' R	735.70
G	50+39.6	59.5' R	735.66
H	50+40.1	60.0' R	735.62
I	50+41.5	61.3' R	735.68
J	50+57.0	75.6' L	735.22
K	50+58.3	77.1' R	735.12
L	50+58.7	77.5' R	735.16
M	50+64.0	83.5' R	735.28
N	50+58.2	89.3' R	735.43
O	50+49.1	99.3' R	735.92
P	50+42.8	94.3' R	736.04
Q	50+52.8	83.1' R	735.30
R	50+52.4	82.7' R	735.26
T	50+51.0	81.2' R	735.36
U	50+35.8	66.9' R	735.83
V	50+34.4	65.56' R	735.74
W	50+33.9	65.1' R	735.78
X	50+28.2	59.6' R	735.86
X1	50+28.7	55.7' R	735.94
X2	50+31.2	62.5' R	735.82
Y	50+29.1	52.6' R	736.00
Z	50+29.2	52.0' R	735.95
A1	50+29.5	50.0' R	736.04

LEGEND

DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 856.66

BENCHMARK : "X" CUT ON NORTH
WESTERNLY LOWER FLANGE BOLT OF HYDRANT

LOCATION : ON NORTH WEST CORNER OF
IL ROUTE 120 AND O'PLAINE ROAD

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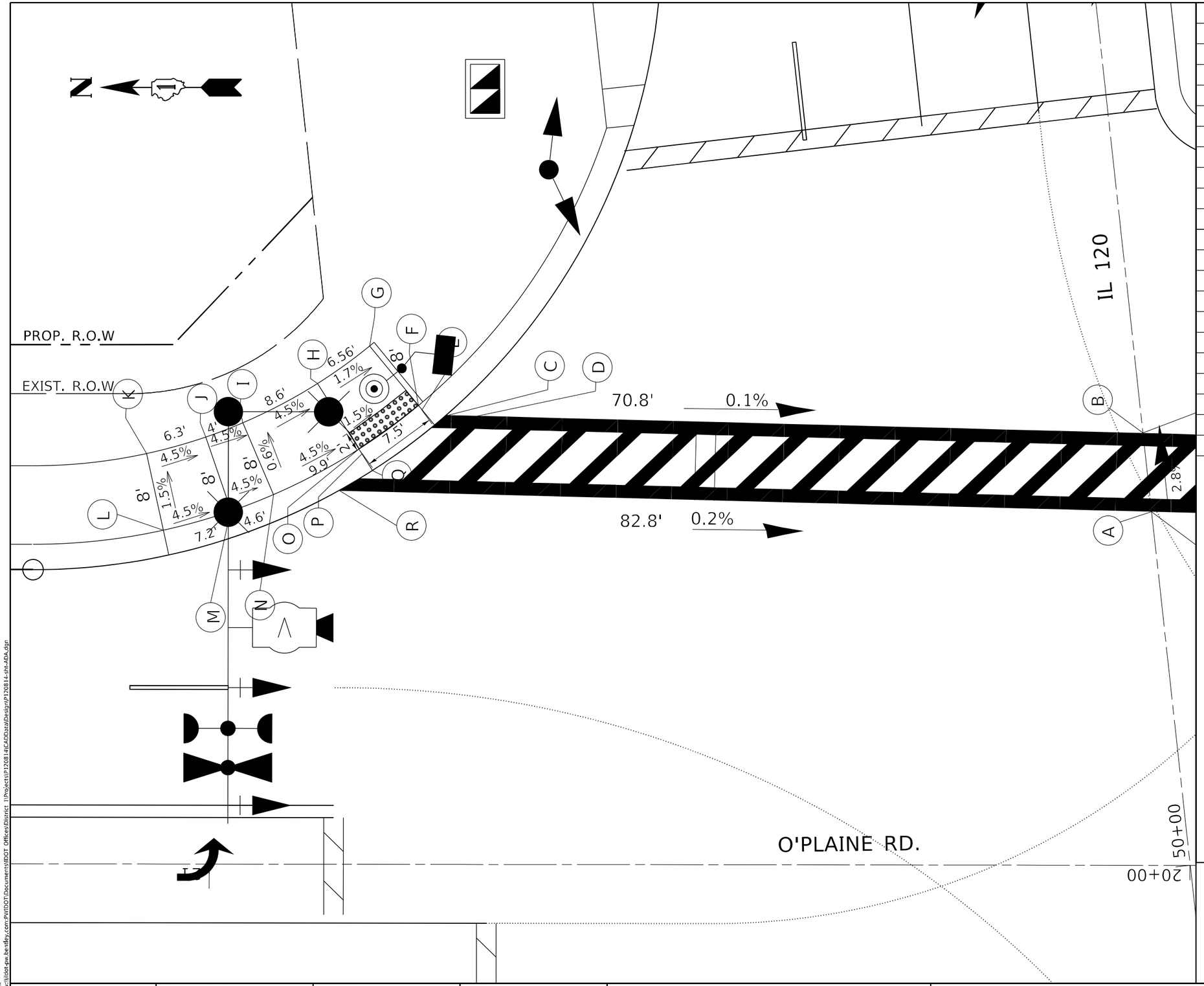
USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS
ILLINOIS ROUTE 120 (BELVIDERE ROAD) AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	53
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	



	STATION	OFFSET	ELEVATION
A	50+36.3	00.0' L	735.69
B	50+44.3	00.0' L	735.47
C	50+53.8	70.2' L	735.55
D	50+52.9	71.6' L	735.58
E	50+54.5	72.7' L	735.58
F	50+55.0	73.1' L	735.62
G	50+61.7	77.4' L	735.62
H	50+58.5	83.1' L	735.73
I	50+55.4	91.1' L	736.12
J	50+54.3	95.1' L	736.30
K	50+53.3	101.2' L	736.59
L	50+45.3	100.4' L	736.71
M	50+46.5	93.3' L	736.38
N	50+47.7	88.8' L	736.17
O	50+51.3	79.6' L	735.73
P	50+50.8	79.4' L	735.69
Q	50+49.0	78.5' L	735.73
R	50+47.4	82.1' L	735.85
S			
T			
U			

LEGEND

DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 856.66

BENCHMARK : "X" CUT ON NORTH
WESTERNLY LOWER FLANGE BOLT OF HYDRANT

LOCATION : ON NORTH WEST CORNER OF
IL ROUTE 120 AND O'PLAINE ROAD

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADData\Design\P120814-sht-ADA.dgn

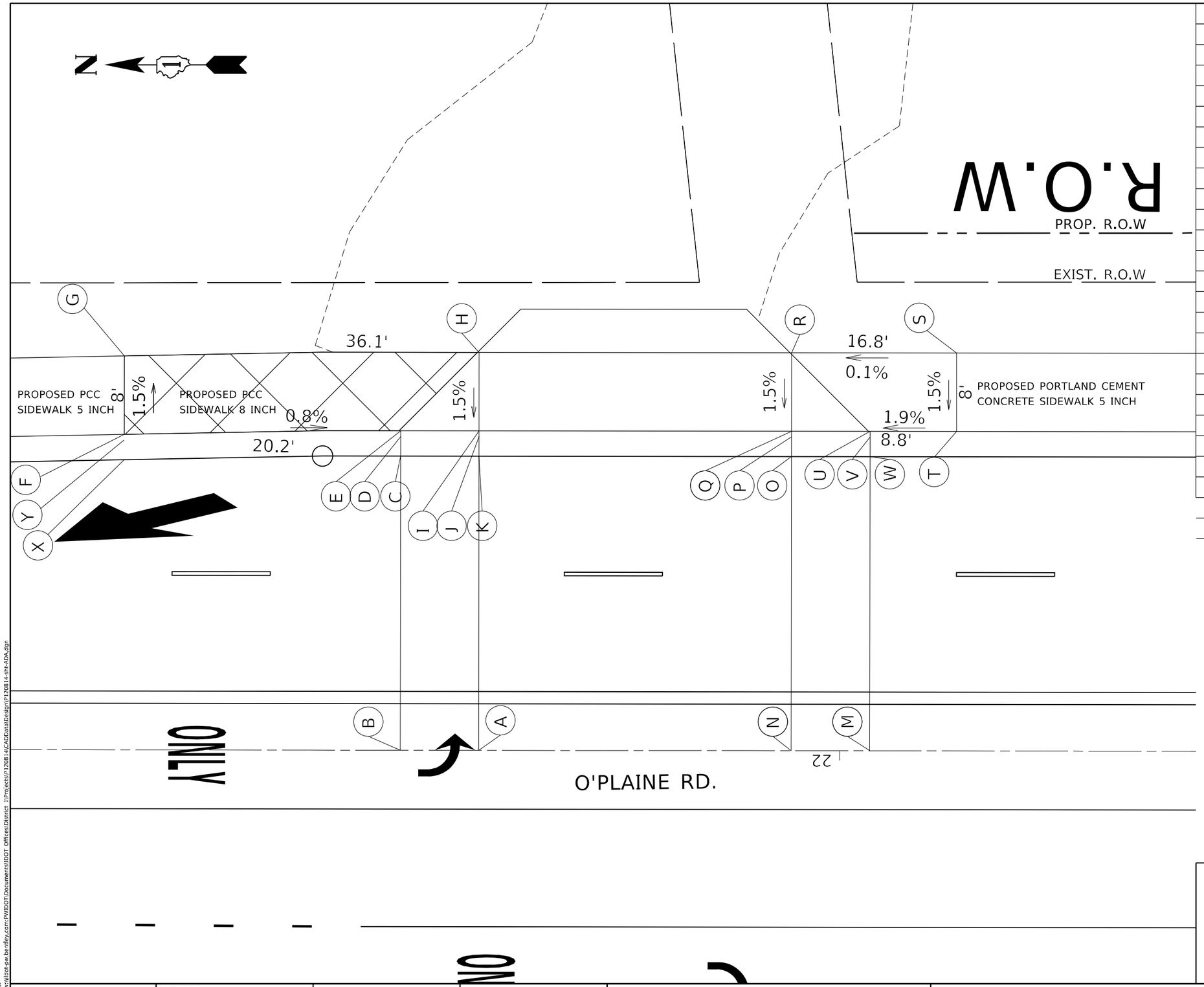
USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS
ILLINOIS ROUTE 120 (BELVIDERE ROAD) AT O'PLAINE ROAD

SCALE: 1":5' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	54
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		



	STATION	OFFSET	ELEVATION
A	22+36.8	00.0' R	738.28
B	22+44.8	00.0' R	738.36
C	22+44.8	30.0' R	738.18
D	22+44.8	32.0' R	738.06
E	22+44.8	32.6' R	738.18
F	22+72.9	32.2' R	738.35
G	22+73.0	40.2' R	738.23
H	22+36.8	40.6' R	738.21
I	22+36.8	32.6' R	738.09
J	22+36.8	32.0' L	737.97
K	22+36.8	30.0' R	738.09
M	21+96.9	0.00' R	737.87
N	22+05.0	0.00' R	737.95
O	22+05.0	30.0' R	737.80
P	22+05.0	32.0' R	737.68
Q	22+05.0	32.6' R	737.80
R	22+05.0	40.6' R	737.92
S	21+88.1	40.6' R	737.94
T	21+88.1	32.6' R	737.82
U	21+96.9	32.6' R	737.66
V	21+96.9	32.0' R	737.54
W	21+96.9	30.0' R	737.66
X	22+72.9	29.6' R	738.35
Y	22+72.9	31.6' R	738.23

LEGEND

DETECTABLE WARNINGS

PROPOSED PCC SIDEWALK 8 INCH

REFERENCE BENCHMARK ELEV 856.66

BENCHMARK : "X" CUT ON NORTH
WESTERNLY LOWER FLANGE BOLT OF HYDRANT

LOCATION : ON NORTH WEST CORNER OF
IL ROUTE 120 AND O'PLAINE ROAD

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADData\Design\P120814-sht-ADA.dgn

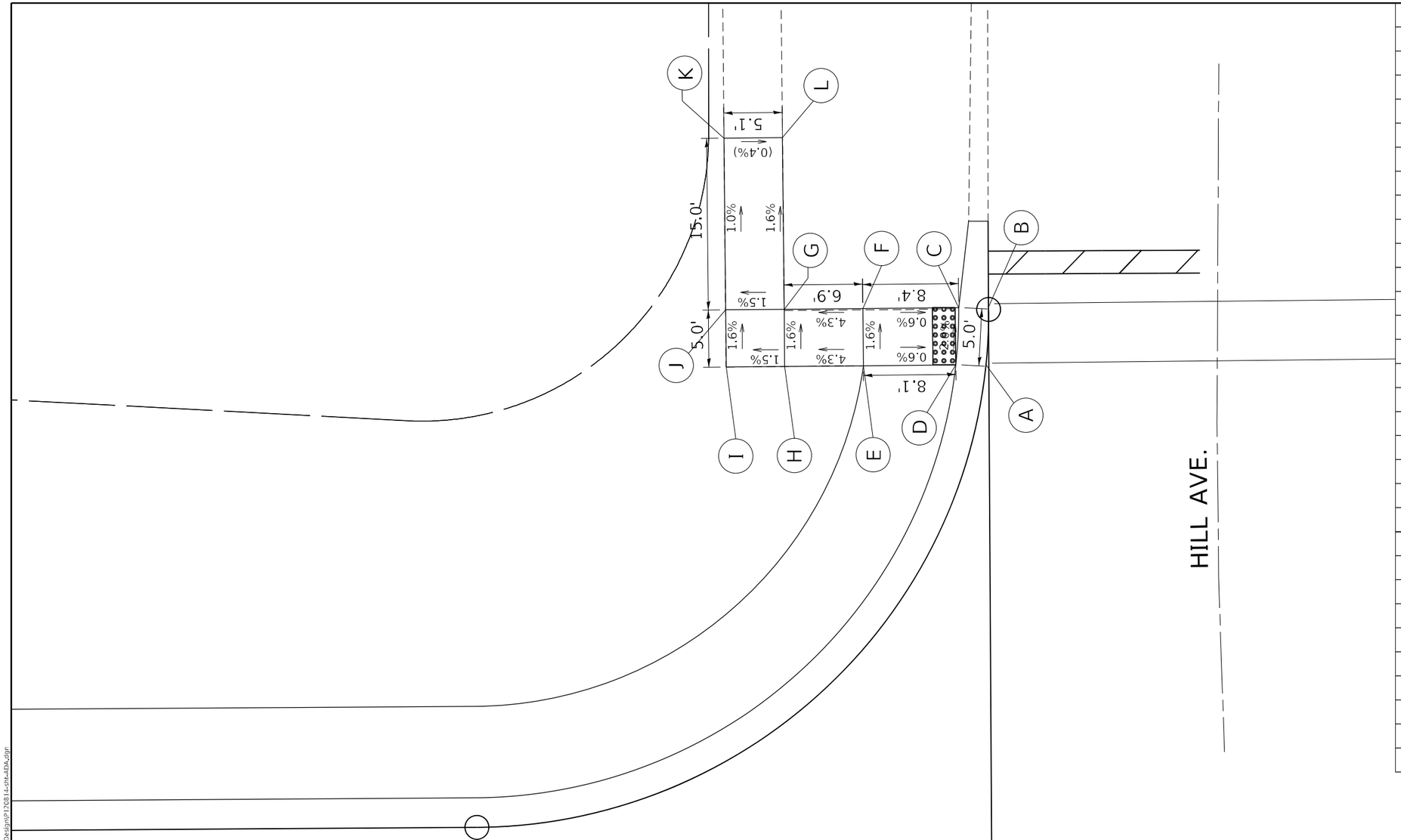
USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS
ILLINOIS ROUTE 120 (BELVIDERE ROAD) AT O'PLAINE ROAD

SCALE: 1":5' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	55
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



	STATION	OFFSET	ELEVATION
A	11+39.3	58.1' R	732.98
B	11+39.1	63.1' R	(732.78)
C	11+41.7	63.1' R	732.82
D	11+42.0	58.2' R	732.92
E	11+50.0	58.1' R	732.79
F	11+50.1	63.1' R	732.71
G	11+57.0	63.1' R	732.41
H	11+57.0	58.1' R	732.49
I	11+62.0	58.1' R	732.41
J	11+62.1	63.1' R	732.33
K	11+62.2	78.1' R	(732.18)
L	11+57.1	78.1' R	(732.16)
M			
N			
O			
P			
Q			
R			
T			
U			
V			
W			
X			
X1			
X2			
Y			
Z			
A1			

LEGEND

DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 856.66

BENCHMARK : "X" CUT ON NORTH
WESTERNLY LOWER FLANGE BOLT OF HYDRANT

LOCATION : ON NORTH WEST CORNER OF
IL ROUTE 120 AND O'PLAINE ROAD

MODEL: Default
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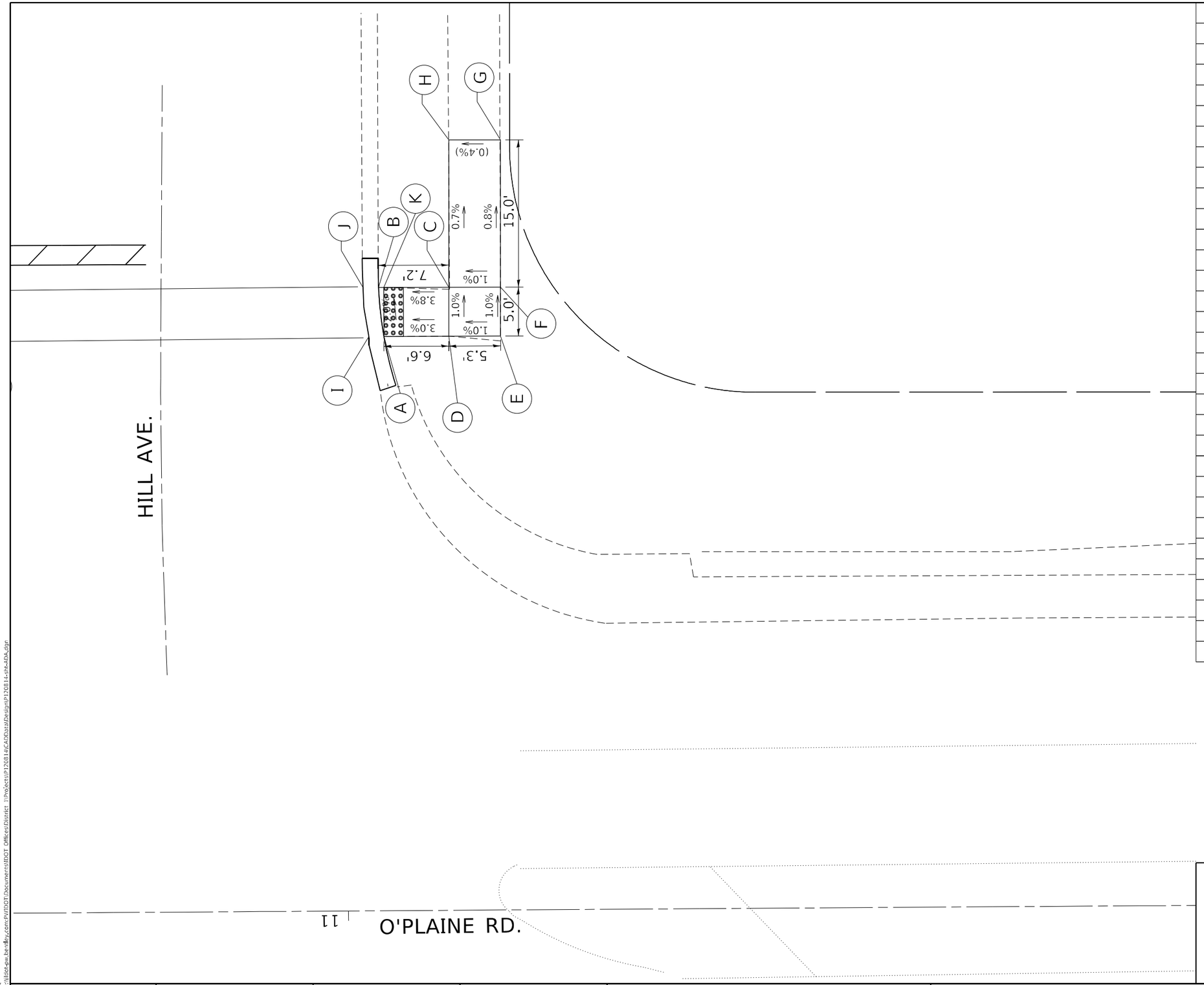
USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS
ILLINOIS ROUTE 120 (BELVIDERE ROAD) AT O'PLAINE ROAD

SCALE: 1":5' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	56
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



	STATION	OFFSET	ELEVATION
A	10+96.4	58.6' R	732.77
B	10+96.5	63.6' R	732.67
C	10+89.8	63.5' R	732.92
D	10+89.8	58.5' R	732.97
E	10+84.5	58.5' R	733.02
F	10+84.5	63.5' R	732.97
G	10+84.6	78.5' R	(732.84)
H	10+89.8	78.5' R	(732.82)
I	10+97.9	58.6' R	(732.78)
J	10+98.5	63.6' R	(732.63)
K	10+96.0	63.6' R	732.67
L			
M			
N			
O			
P			
Q			
R			
T			
U			
V			
W			
X			
X1			
X2			
Y			
Z			
A1			

LEGEND

DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 856.66

BENCHMARK : "X" CUT ON NORTH
WESTERNLY LOWER FLANGE BOLT OF HYDRANT

LOCATION : ON NORTH WEST CORNER OF
IL ROUTE 120 AND O'PLAINE ROAD

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS
ILLINOIS ROUTE 120 (BELVIDERE ROAD) AT O'PLAINE ROAD

SCALE: 1":5' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	57
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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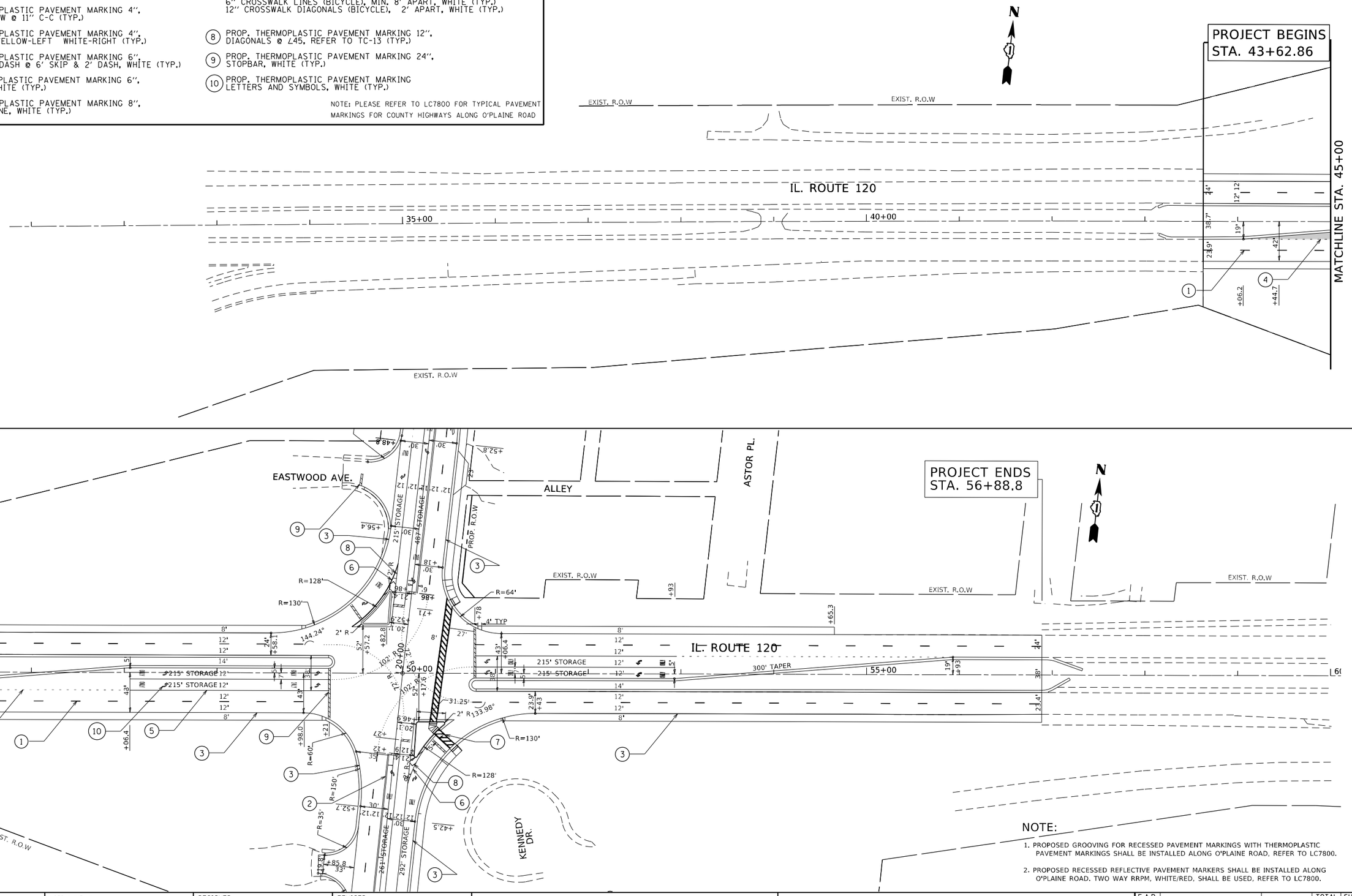
PAVEMENT MARKING LEGEND

1. PROP. THERMOPLASTIC PAVEMENT MARKING 4", 30' SKIP 10' DASH, WHITE (TYP.)
2. PROP. THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)
3. PROP. THERMOPLASTIC PAVEMENT MARKING 4", EDGE LINES, YELLOW-LEFT WHITE-RIGHT (TYP.)
4. PROP. THERMOPLASTIC PAVEMENT MARKING 6", DOTTED SKIP DASH @ 6' SKIP & 2' DASH, WHITE (TYP.)
5. PROP. THERMOPLASTIC PAVEMENT MARKING 6", TURN LANE, WHITE (TYP.)
6. PROP. THERMOPLASTIC PAVEMENT MARKING 8", GORE EDGE LINE, WHITE (TYP.)
7. PROP. THERMOPLASTIC PAVEMENT MARKING 6", PROP. THERMOPLASTIC PAVEMENT MARKING 12", 6" CROSSWALK LINES (BICYCLE), MIN. 8' APART, WHITE (TYP.) 12" CROSSWALK DIAGONALS (BICYCLE), 2' APART, WHITE (TYP.)
8. PROP. THERMOPLASTIC PAVEMENT MARKING 12", DIAGONALS @ ∠45, REFER TO TC-13 (TYP.)
9. PROP. THERMOPLASTIC PAVEMENT MARKING 24", STOPBAR, WHITE (TYP.)
10. PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

NOTE: PLEASE REFER TO LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS ALONG O'PLAINE ROAD



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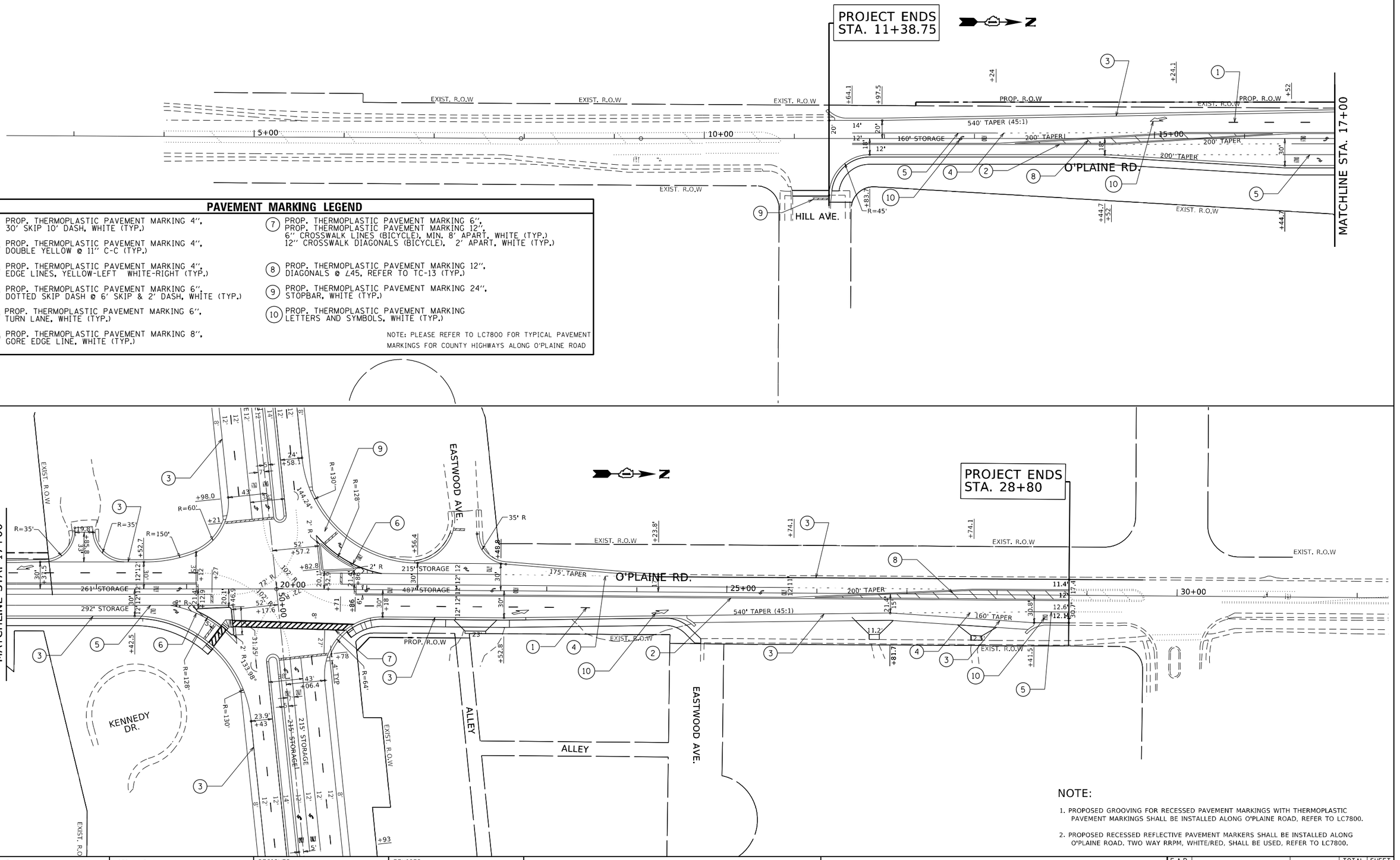
Default	PLOT DATE = 5/11/2023	DRAWN -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PAVEMENT MARKING PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 TO STA. 45+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	58
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		



PAVEMENT MARKING LEGEND

1. PROP. THERMOPLASTIC PAVEMENT MARKING 4", 30' SKIP 10' DASH, WHITE (TYP.)
2. PROP. THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)
3. PROP. THERMOPLASTIC PAVEMENT MARKING 4", EDGE LINES, YELLOW-LEFT WHITE-RIGHT (TYP.)
4. PROP. THERMOPLASTIC PAVEMENT MARKING 6", DOTTED SKIP DASH @ 6' SKIP & 2' DASH, WHITE (TYP.)
5. PROP. THERMOPLASTIC PAVEMENT MARKING 6", TURN LANE, WHITE (TYP.)
6. PROP. THERMOPLASTIC PAVEMENT MARKING 8", GORE EDGE LINE, WHITE (TYP.)
7. PROP. THERMOPLASTIC PAVEMENT MARKING 6", PROP. THERMOPLASTIC PAVEMENT MARKING 12", 6" CROSSWALK LINES (BICYCLE), MIN. 8' APART, WHITE (TYP.) 12" CROSSWALK DIAGONALS (BICYCLE), 2' APART, WHITE (TYP.)
8. PROP. THERMOPLASTIC PAVEMENT MARKING 12", DIAGONALS @ ∠45, REFER TO TC-13 (TYP.)
9. PROP. THERMOPLASTIC PAVEMENT MARKING 24", STOPBAR, WHITE (TYP.)
10. PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

NOTE: PLEASE REFER TO LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS ALONG O'PLAINE ROAD

NOTE:

1. PROPOSED GROOVING FOR RECESSED PAVEMENT MARKINGS WITH THERMOPLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED ALONG O'PLAINE ROAD, REFER TO LC7800.
2. PROPOSED RECESSED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ALONG O'PLAINE ROAD. TWO WAY RRPM, WHITE/RED, SHALL BE USED, REFER TO LC7800.

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/12/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PAVEMENT MARKING PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 45+00 TO STA. 56+88.8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	59
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

NO.	ROAD	EXISTING LOCATION		PROPOSED LOCATION		SIGN DESCRIPTION	MUTCD CODE	HEIGHT	WIDTH	AREA	REMOVE SIGN PANEL ASSY TYPE A	REMOVE SIGN PANEL ASSY TYPE B	TELESCOPING STEEL SIGN SUP.	SIGN PANEL TYPE 1	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL ASSEMBLY - TYPE B
		STATION	OFFSET	STATION	OFFSET						72400100	72400200	72800100	72000100	72400500	72400600
			FT		FT			FT	FT	SQFT	EACH	EACH	FT	SQFT	EACH	EACH
1	IL RTE. 120	42+73	61.1 RT			GREEN STREET NAME "O'PLAINE RD"		1.00	1.50	1.50					1	
2	IL RTE. 120	44+85	1.5 RT			JUNCTION AUXILIARY	M2-1	3.00	3.00	9.00						1
						COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
						LEFT TURN LANE		3.00	2.50	7.50						
3	IL RTE. 120	44+87	54.4 RT			JUNCTION AUXILIARY	M2-1	3.00	3.00	9.00		1	19			
						COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
4	IL RTE. 120 (EB)	49+40	14.8 LT			DOUBLE LEFT TURN ONLY	R3-8LL	3.00	2.50	7.50	1			7.5		1
	IL RTE. 120 (WB)					KEEP RIGHT	R4-7	2.50	2.00	5.00						
5	IL RTE. 120 (WB)	49+42	58.3 RT			GREEN STREET NAME "Ill RTE 120"		1.00	1.50	1.50	1		18			
	IL RTE. 120 (EB)					COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
						TWO DIRECTIONAL ARROW (blue background yellow lettering)		1.25	1.75	2.19						
6	IL RTE. 120	52+92	61.9 RT			ILLINOIS ROUTE 120 (white/black)	M1-I100	2.00	2.00	4.00	1		17			
						EAST	M3-2	2.00	1.00	2.00						
7	IL RTE. 120	55+30	14.2 RT			SPEED LIMIT 50	R2-1	3.00	2.50	7.50					1	
8	IL RTE. 120	55+35	62.7 RT			SPEED LIMIT 50	R2-1	3.00	2.50	7.50	1		15			
9	IL RTE. 120	59+19	10.1 LT			WEST	M3-4	2.00	1.00	2.00					1	
						ILLINOIS ROUTE 120 (white/black)	M1-I100	2.00	2.00	4.00						
10	IL RTE. 120	55+20	54.5 LT			GREEN STREET NAME "O'PLAINE RD"		1.00	1.50	1.50	1		13			
11	IL RTE. 120	54+65	54.5 LT			JUNCTION AUXILIARY	M2-1	3.00	3.00	9.00						1
						COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
12	IL RTE. 120	54+57	1.6 LT			JUNCTION AUXILIARY	M2-1	2.00	4.00	8.00						1
						COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
						LEFT TURN LANE		3.00	2.50	7.50						
13	IL RTE. 120	53+10	53.3 LT			LAKE COUNTRY PASSAGE TRAFFIC INFO		3.00	4.00	12.00						1
14	IL RTE. 120	50+69	62.1 LT			COUNTY ROUTE	M1-6	0.67	1.50	1.01						1
						O'PLAINE RD (blue background yellow lettering)										
						TWO DIRECTIONAL ARROW (blue background yellow lettering)		1.25	1.75	2.19						
15	IL RTE. 120	46+63	86.7 LT			INTERSTATE ENTRANCE				0.00						1
16	IL RTE. 120	43+77	12.9 LT			SPEED LIMIT 55	R2-1	2.00	2.00	4.00					1	
17	IL RTE. 120	43+77	57.6 LT			SPEED LIMIT 55	R2-1	3.00	2.50	7.50					1	
18	IL RTE. 120 (WB)			50+84	12.4 RT	DOUBLE LEFT TURN ONLY	R3-8LL	3.00	2.50	7.50			19	7.5		
	IL RTE. 120 (EB)					KEEP RIGHT	R4-7	2.50	2.00	5.00				5.0		
19	IL RTE. 120	46+96	56.9 RT			LAKE COUNTY PASSAGE TRAFFIC INFO		3.00	4.00	12.00						1
20	O'PLAINE ROAD (NB/SB)	10+92	56.2 RT			GREEN STREET NAME "HILL AVE"		1.00	1.50	1.50	1		15			
	O'PLAINE ROAD (WB/EB)					GREEN STREET NAME "O'PLAINE RD"		1.00	1.50	1.50						
21	O'PLAINE ROAD	11+44	50.5 RT			STOP SIGN	R1-1	3.00	3.00	9.00					1	
22	O'PLAINE ROAD	15+23	29.0 RT			JUNCTION AUXILIARY	M2-1	2.50	2.50	6.25						1
						ILLINOIS ROUTE 120 (white/black)	M1-I100	2.00	2.00	4.00						
23	O'PLAINE ROAD	16+24	38.5 RT			LAKE COUNTRY PASSAGE TRAFFIC INFO		3.00	4.00	12.00						1
24	O'PLAINE ROAD	16+74	35.4 RT			RIGHT TURN ONLY	R3-5R	3.00	2.50	7.50					1	
25	O'PLAINE ROAD	18+84	36.5 RT			RIGHT TURN ONLY	R3-5R	3.00	2.50	7.50					1	
26	O'PLAINE ROAD	19+41	59.6 RT			ILLINOIS ROUTE 120 (white/black)	M1-I100	2.00	2.00	4.00	1		16			
						TWO DIRECTIONAL ARROW	M6-4	1.25	1.75	2.19						
27	O'PLAINE ROAD	21+05	34.4 RT			LAKE COUNTY ADOPT A HIGHWAY	I-I107A	3.00	2.50	7.50		1	21			
						Keely Wells Adopt-A-Hwy Coord NEXT 1 MILE		1.50	2.50	3.75						
						CLEANUP CREW WORKING	W21-I111	3.00	3.00	9.00						
28	O'PLAINE ROAD	21+91	26.9 RT			SPEED LIMIT 40	R2-1	2.00	2.00	4.00					1	
29	O'PLAINE ROAD	22+53	28.0 RT			NORTH	M3-1	2.00	1.00	2.00	1		18			
						COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
30	O'PLAINE ROAD	28+80	35.1 RT			RIGHT TURN ONLY	R3-5R	3.00	2.50	7.50					1	
31	O'PLAINE ROAD	24+62	25.3 LT			JUNCTION AUXILIARY (white/black)	M2-1	1.25	1.75	2.19					1	
						ILLINOIS ROUTE 120 (white/black)	M-1-I100.3	2.00	2.50	5.00						
32	O'PLAINE ROAD	23+80	31.8 LT			EAST	M3-2	2.00	1.00	2.00						1
						TOLL	M4-15	1.00	2.00	2.00						
						INTERSTATE I-94	M1-1	2.00	2.00	4.00						
						RIGHT ARROW	M5-1R	1.25	1.75	2.19						
33	O'PLAINE ROAD	22+58	34.5 LT			LAKE COUNTY PASSAGE TRAFFIC INFO		3.00	4.00	12.00						1
34	O'PLAINE ROAD	22+35	71.4 LT			DEAD END	W14-1	2.50	2.50	6.25						1
						1/4 MILE AHEAD	W 12-I101	1.50	2.00	3.00						
35	O'PLAINE ROAD	21+85	62.1 LT			STOP SIGN	R1-1	3.00	3.00	9.00					1	
36	O'PLAINE ROAD	21+75	50.0 LT			GREEN STREET NAME "EASTWOOD AV"		1.00	1.50	1.50					1	
37	O'PLAINE ROAD	21+30	37.8 LT			RIGHT TURN ONLY	R3-5R	3.00	2.50	7.50					1	
38	O'PLAINE ROAD (SB)	20+60	54.1 LT			ILLINOIS ROUTE 120 (white/black)	M1-I100	2.00	2.00	4.00	1		17			
						TWO DIRECTIONAL ARROW	M6-4	1.25	1.75	2.19						
	O'PLAINE ROAD (NB)					GREEN STREET NAME "Ill RTE 120"		1.00	1.50	1.50						
39	O'PLAINE ROAD	17+83	102.1 LT			ROAD CLOSED	R11-2	2.50	4.00	10.00						1
						NO PARKING PRIVATE PROPERTY										
40	O'PLAINE ROAD	17+36	32.4 LT			LAKE COUNTY ADOPT A HIGHWAY	I-I107A	3.00	2.50	7.50						1
						Zebra Technologies NEXT 1 MILE		1.50	2.50	3.75						
						CLEANUP CREW WORKING	W21-I111	3.00	3.00	9.00						
41	O'PLAINE ROAD	16+74	31.6 LT			SPEED LIMIT 45	R2-1	2.00	2.00	4.00					1	
42	O'PLAINE ROAD	15+87	32.1 LT			SOUTH	M3-3	2.00	1.00	2.00					1	
						COUNTY ROUTE	M1-6	2.00	1.18	2.36						
						O'PLAINE RD (blue background yellow lettering)		0.67	1.50	1.01						
	TOTAL										9	2	188	20	16	15

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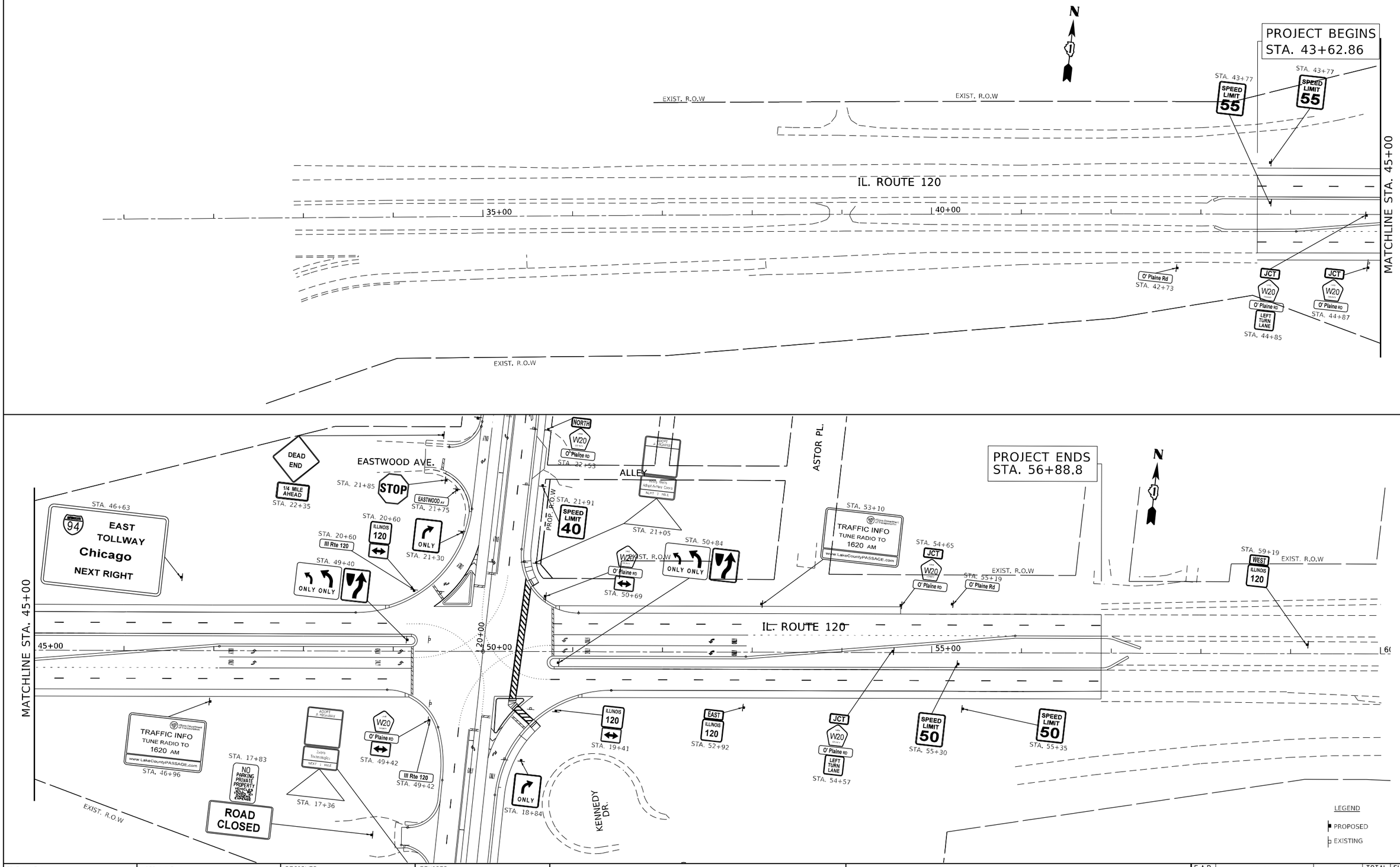
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAGE SCHEDULE
IL ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 | TO STA. 45+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	60
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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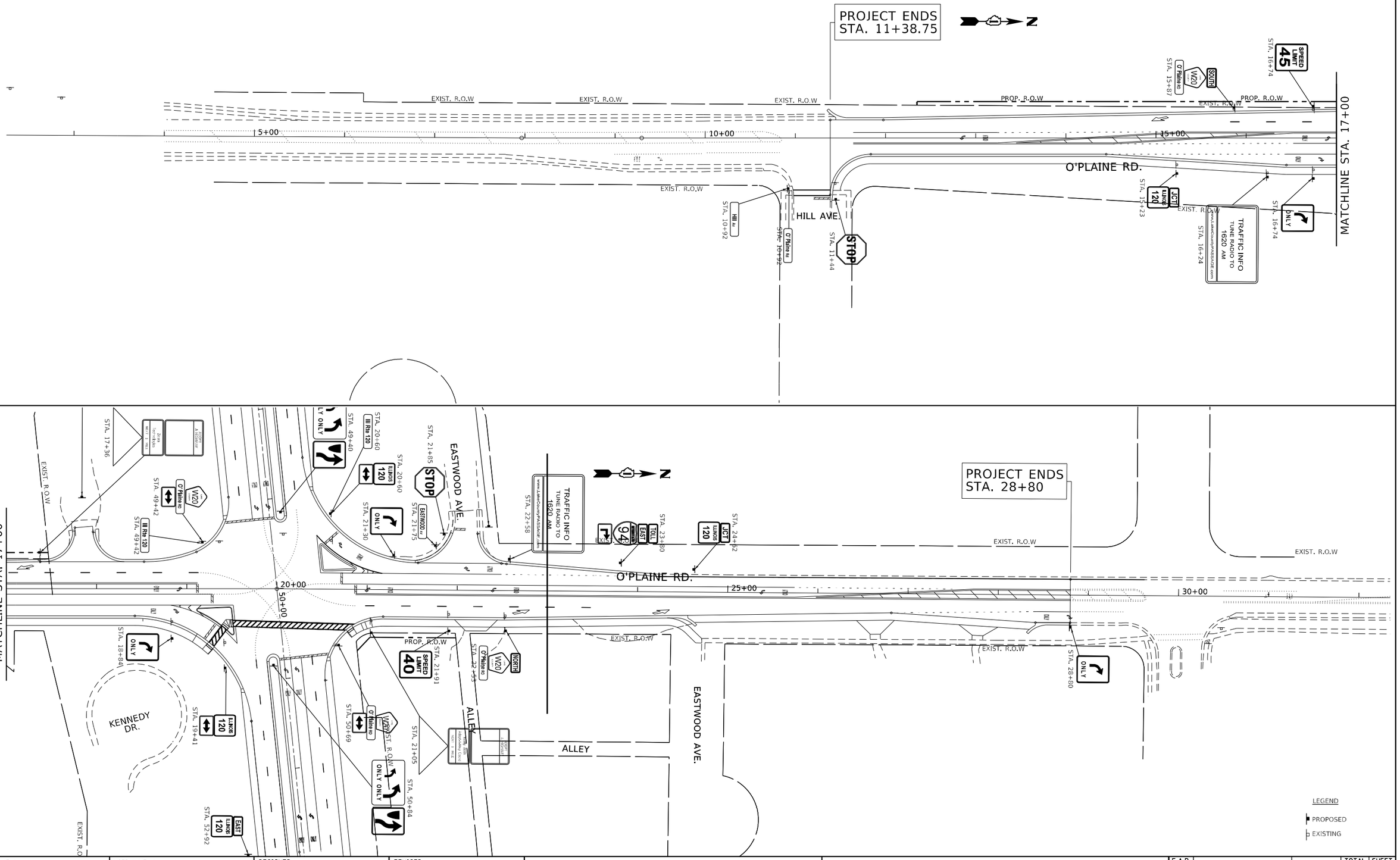
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 TO STA. 45+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	61
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	



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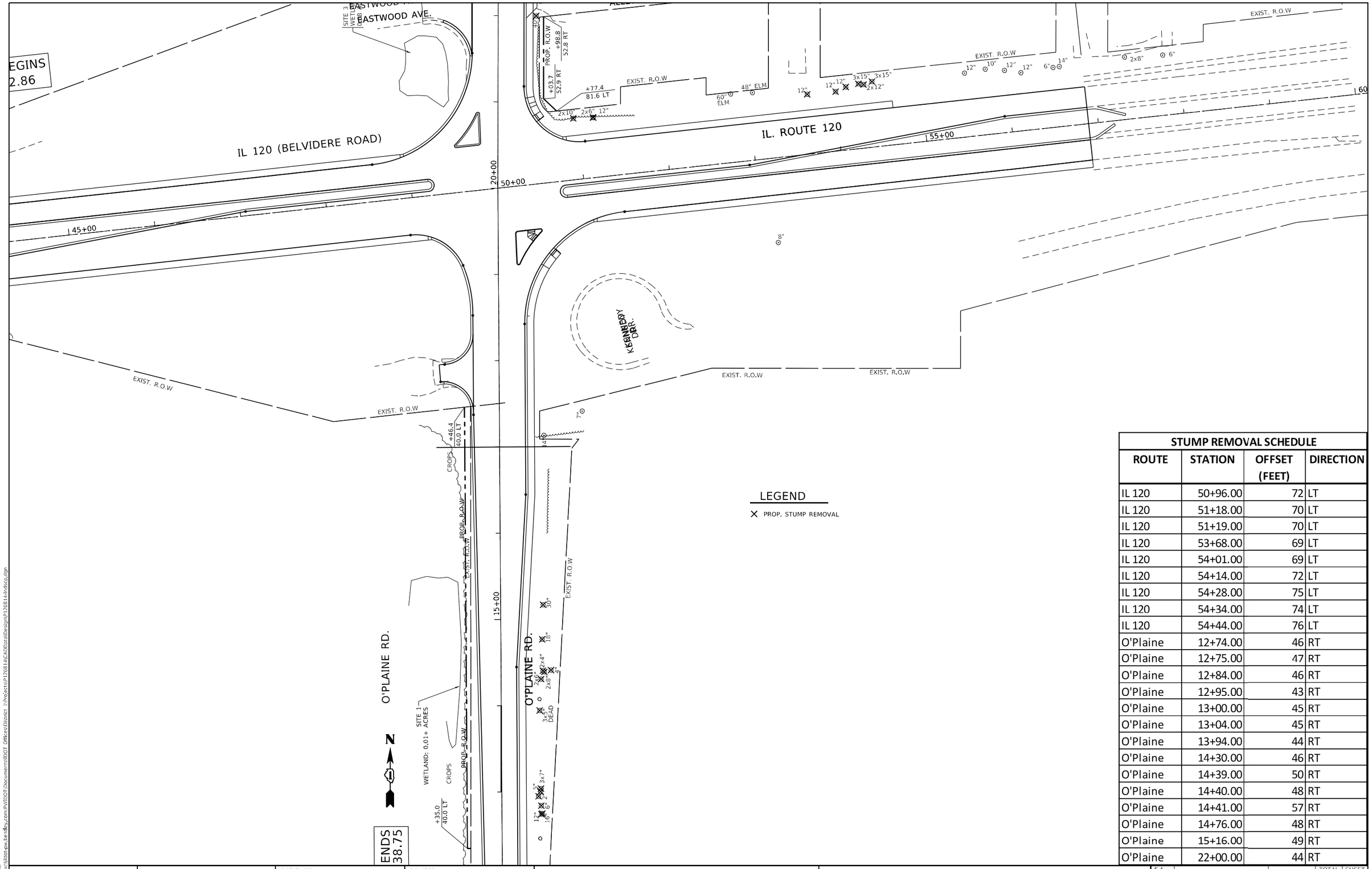
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAGE PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 TO STA. 45+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	62
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	



LEGEND

× PROP. STUMP REMOVAL

STUMP REMOVAL SCHEDULE

ROUTE	STATION	OFFSET (FEET)	DIRECTION
IL 120	50+96.00	72	LT
IL 120	51+18.00	70	LT
IL 120	51+19.00	70	LT
IL 120	53+68.00	69	LT
IL 120	54+01.00	69	LT
IL 120	54+14.00	72	LT
IL 120	54+28.00	75	LT
IL 120	54+34.00	74	LT
IL 120	54+44.00	76	LT
O'Plaine	12+74.00	46	RT
O'Plaine	12+75.00	47	RT
O'Plaine	12+84.00	46	RT
O'Plaine	12+95.00	43	RT
O'Plaine	13+00.00	45	RT
O'Plaine	13+04.00	45	RT
O'Plaine	13+94.00	44	RT
O'Plaine	14+30.00	46	RT
O'Plaine	14+39.00	50	RT
O'Plaine	14+40.00	48	RT
O'Plaine	14+41.00	57	RT
O'Plaine	14+76.00	48	RT
O'Plaine	15+16.00	49	RT
O'Plaine	22+00.00	44	RT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STUMP REMOVAL PLAN
IL ROUTE 120 AT O'PLAINE ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	2020 I80 TREE REMOVAL	VARIOUS	157	63
		CONTRACT NO. 62U34		
	ILLINOIS	FED. AID PROJECT STP-URB-90YV(615)		

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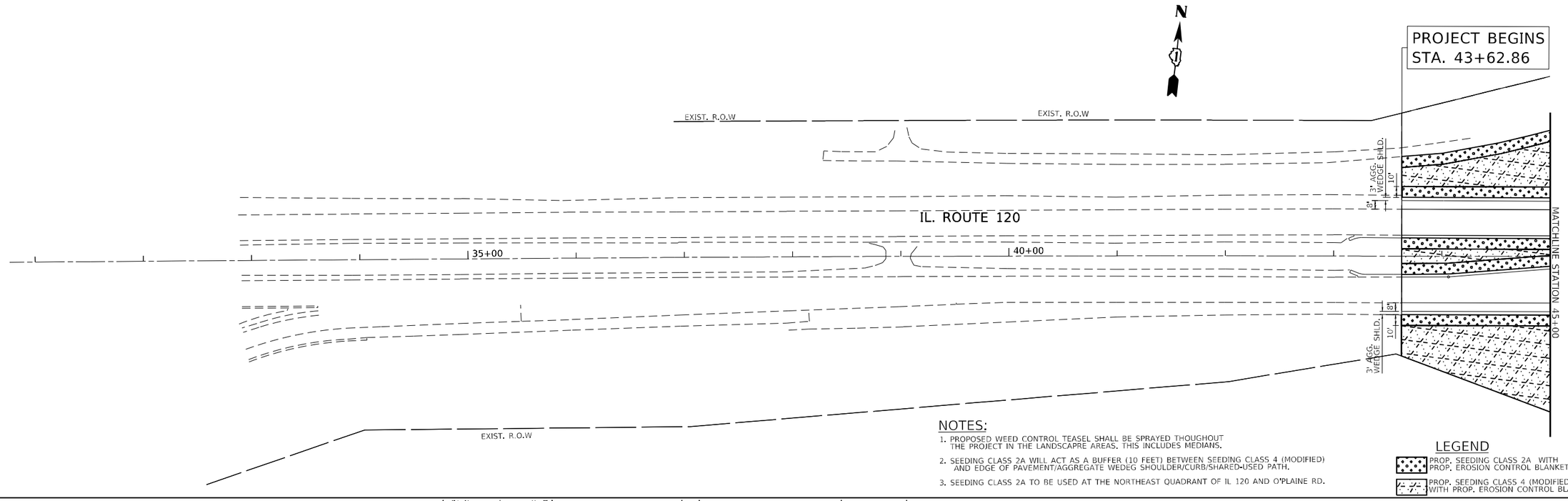


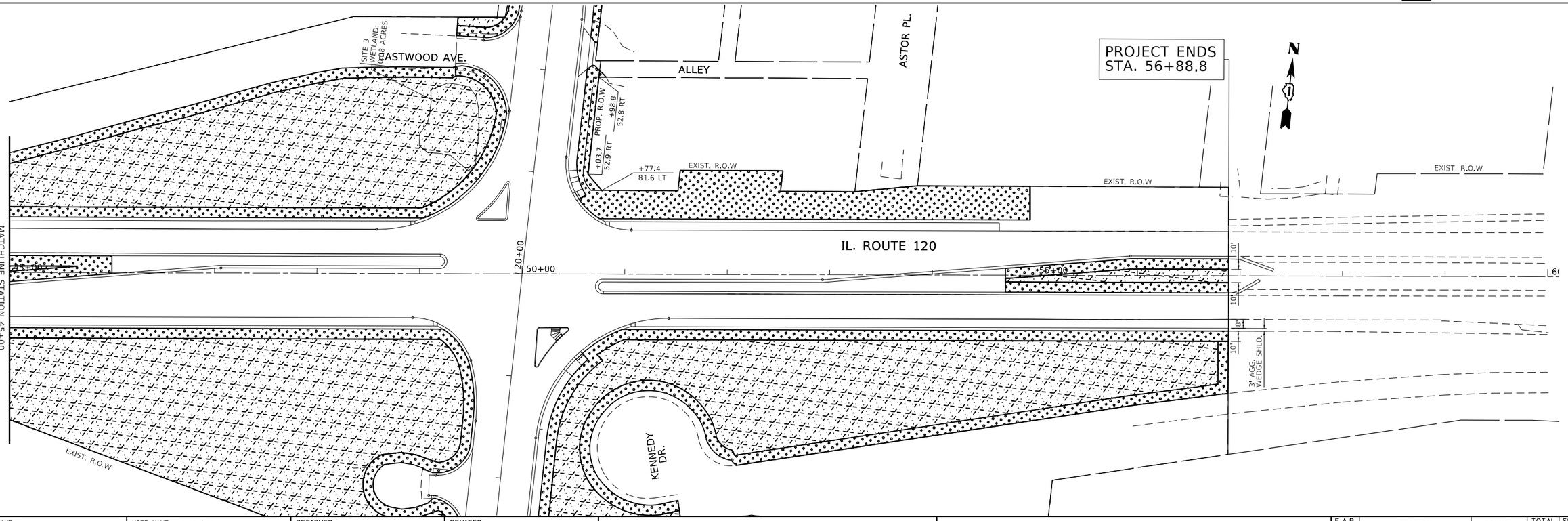
NOTES:

1. PROPOSED WEED CONTROL TEASEL SHALL BE SPRAYED THOUGHOUT THE PROJECT IN THE LANDSCAPRE AREAS. THIS INCLUDES MEDIANS.
2. SEEDING CLASS 2A WILL ACT AS A BUFFER (10 FEET) BETWEEN SEEDING CLASS 4 (MODIFIED) AND EDGE OF PAVEMENT/AGGREGATE WEDEG SHOULDER/CURB/SHARED-USED PATH.
3. SEEDING CLASS 2A TO BE USED AT THE NORTHEAST QUADRANT OF IL 120 AND O'PLAINE RD.

LEGEND

PROP. SEEDING CLASS 2A WITH PROP. EROSION CONTROL BLANKET

PROP. SEEDING CLASS 4 (MODIFIED) WITH PROP. EROSION CONTROL BLANKET



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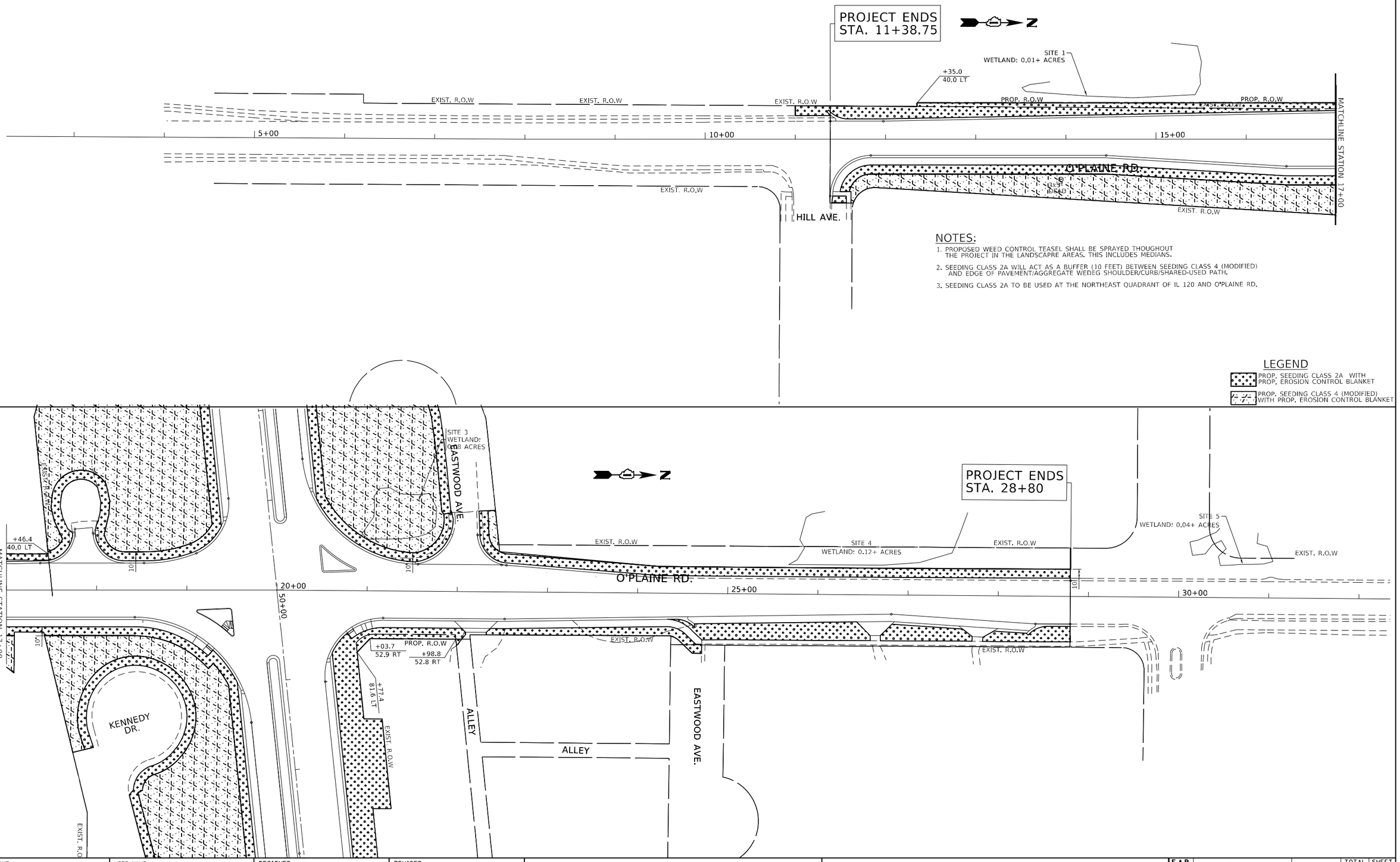
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 43+62.86 | TO STA. 45+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	64
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL. ROUTE 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. 45+00 TO STA.56+88.8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	65
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	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	RR	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	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	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	C D	C D
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.
333	FA 333 21 INTERSECTION	LAKE	157	66
	TS-05	CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

LOOP DETECTOR NOTES

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

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

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

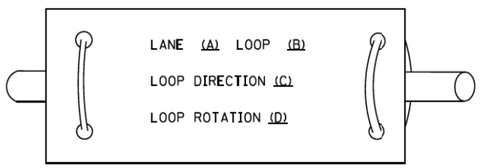
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

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

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

LOOP LEAD-IN CABLE TAG

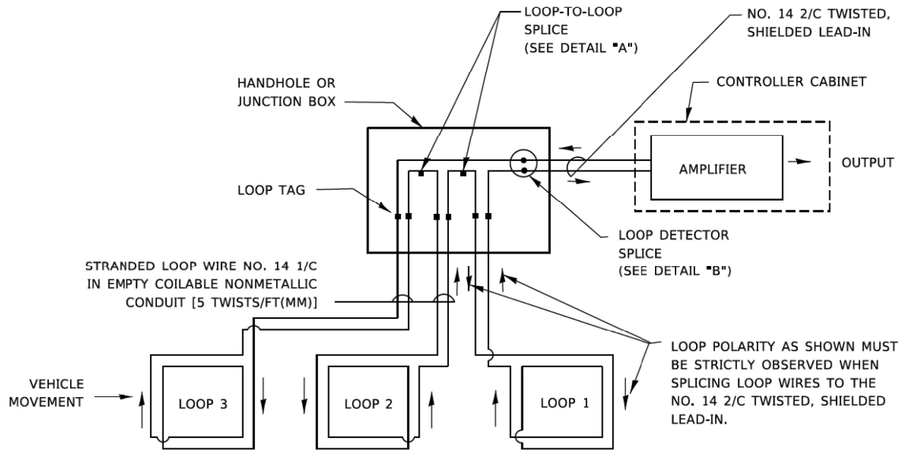


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

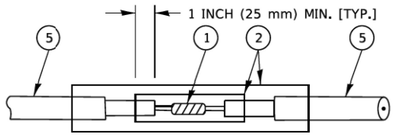
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

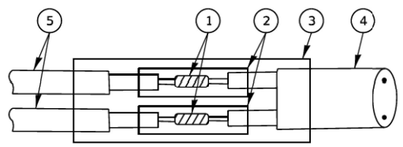


DETECTOR LOOP WIRING SCHEMATIC

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

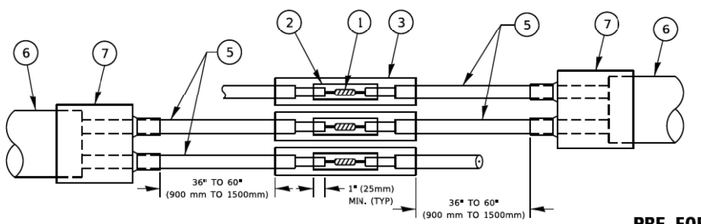


DETAIL "A"
LOOP-TO-LOOP SPLICE



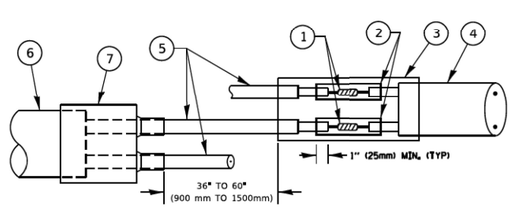
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

(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. PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	67
	TS-05	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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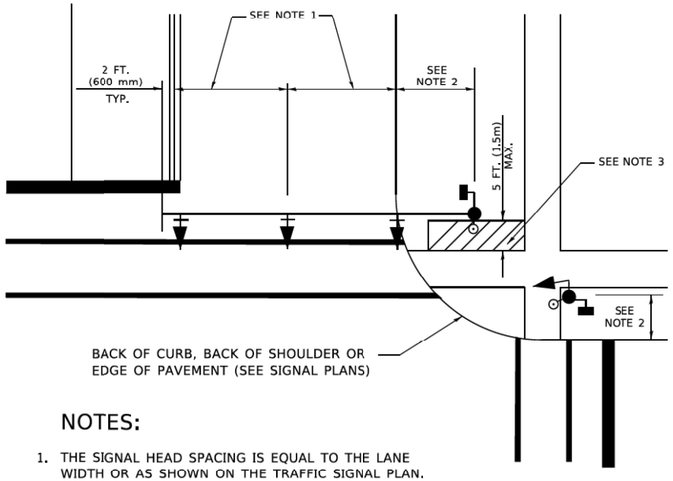
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

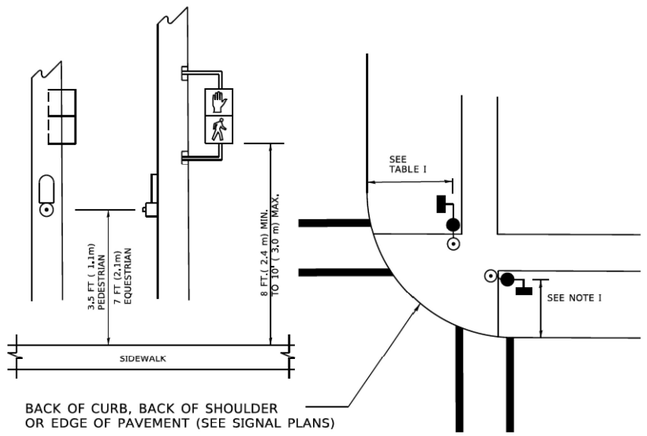
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

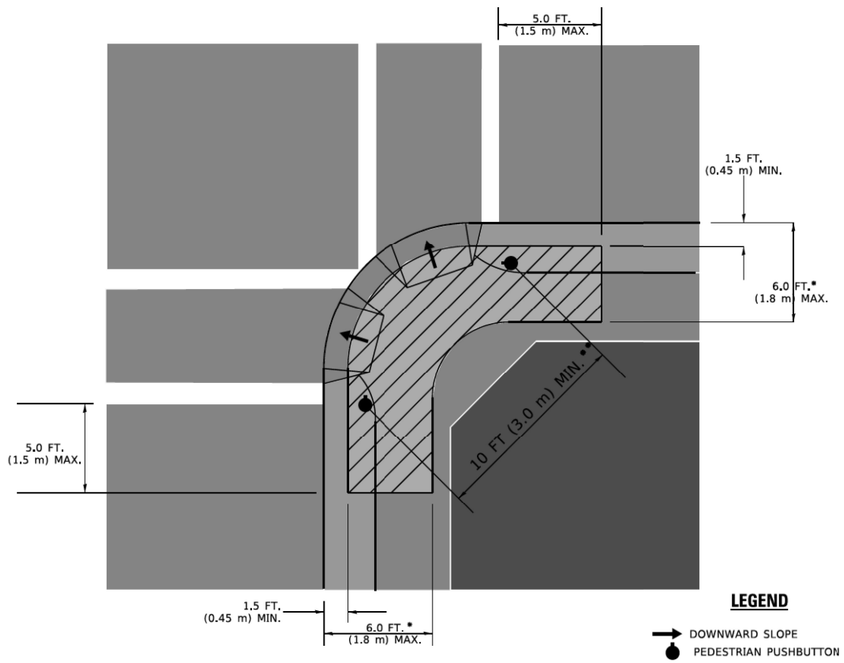
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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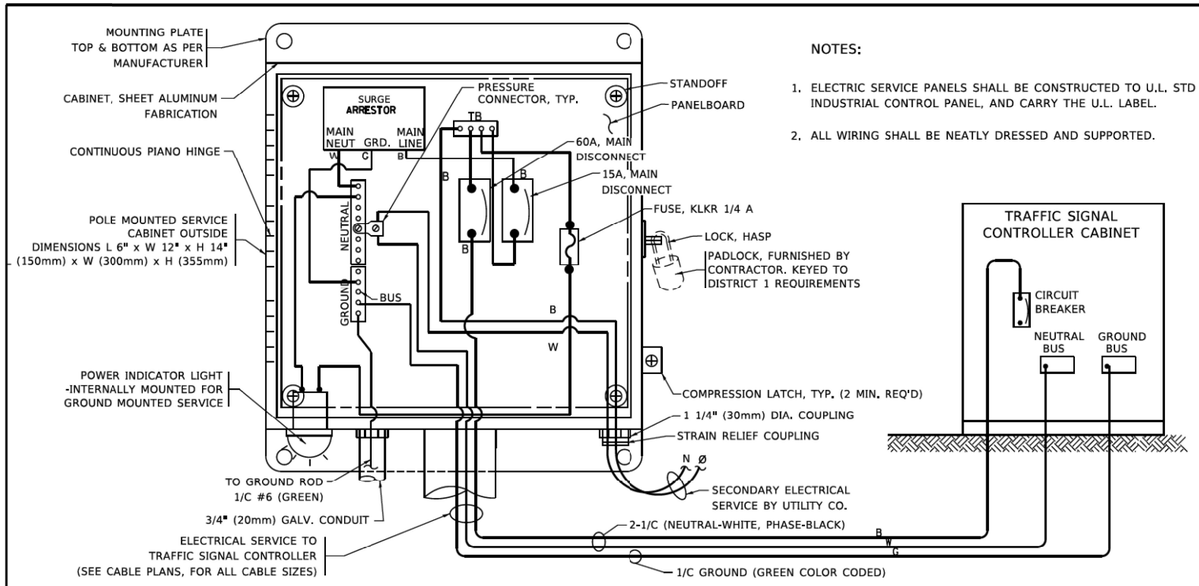
	ILLINOIS FED. AID PROJECT			



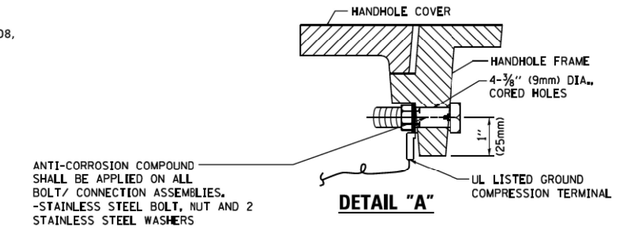
NOTES:

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

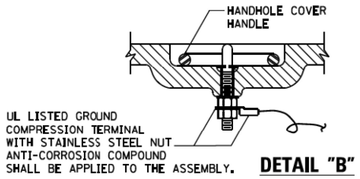
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

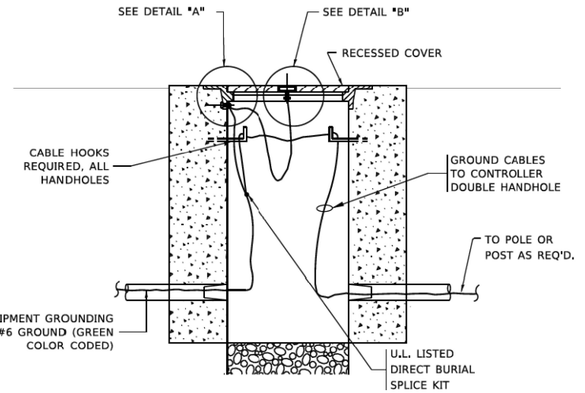


DETAIL "B"

NOTES:

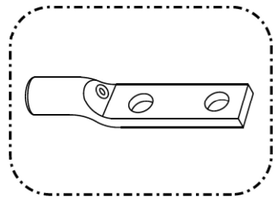
GROUNDING SYSTEM

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

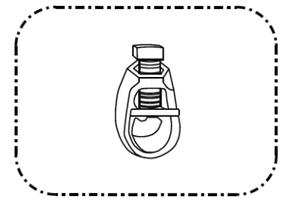


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



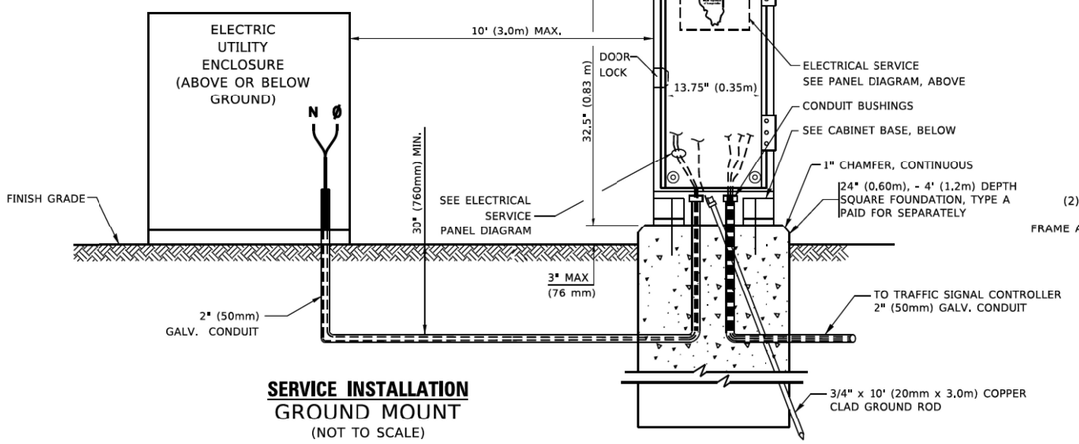
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

NOTES:

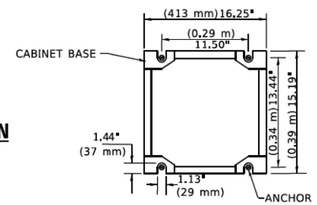
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION

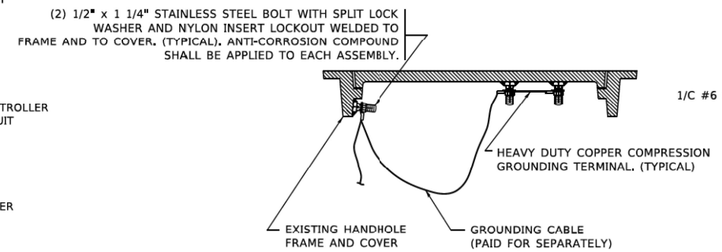
GROUND MOUNT

(NOT TO SCALE)



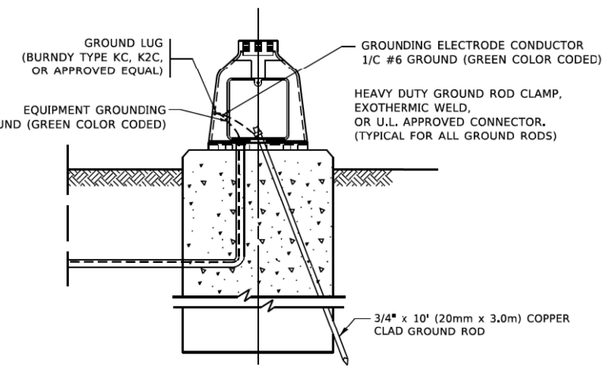
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TS-05	CONTRACT NO. 62R18		
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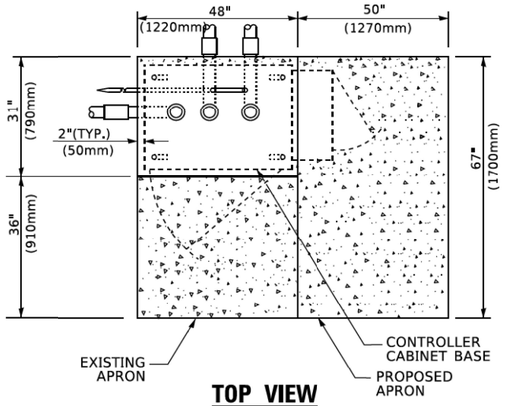
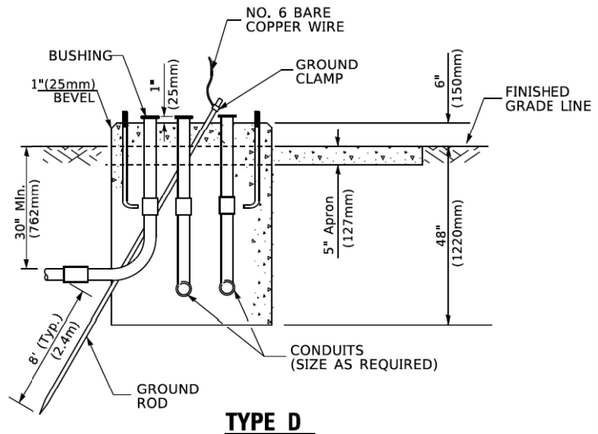
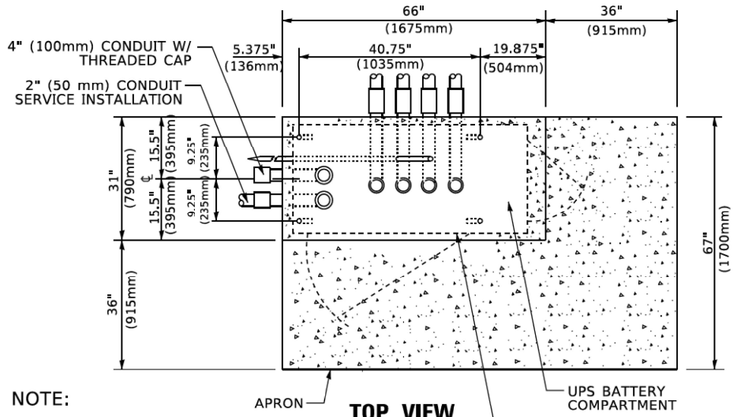


TOP VIEW



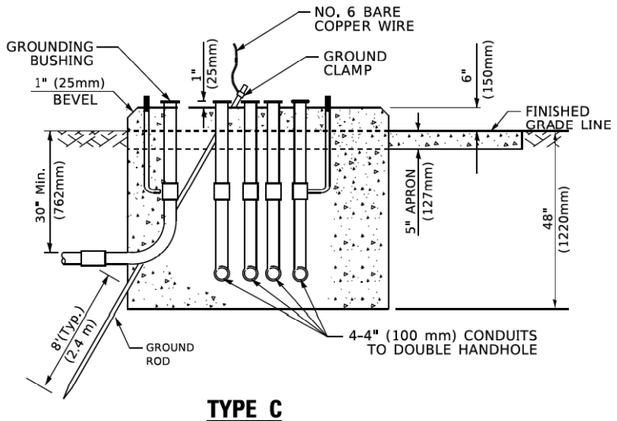
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



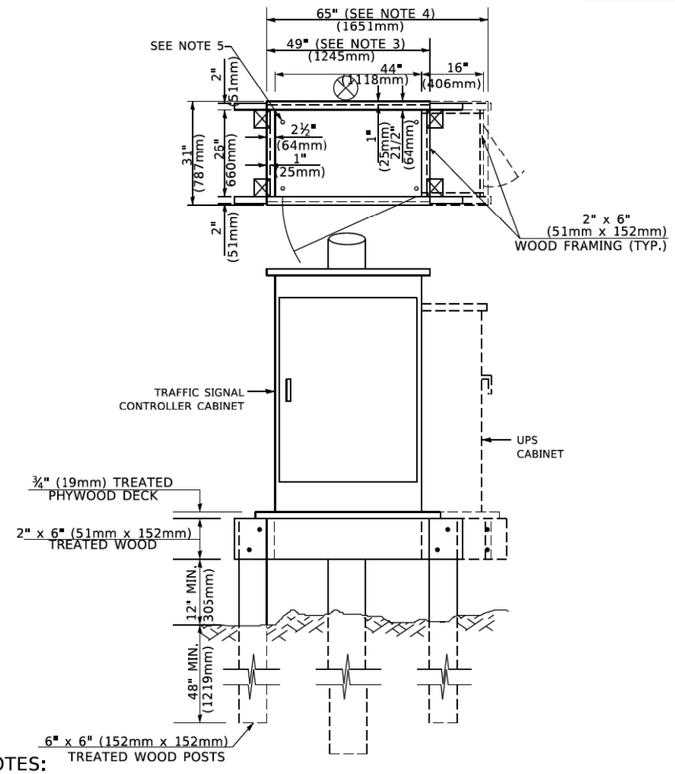
NOTE:

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 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS FED. AID PROJECT		

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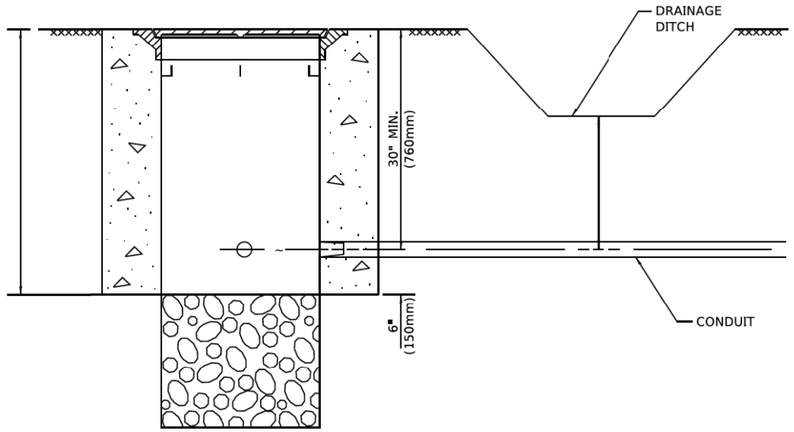
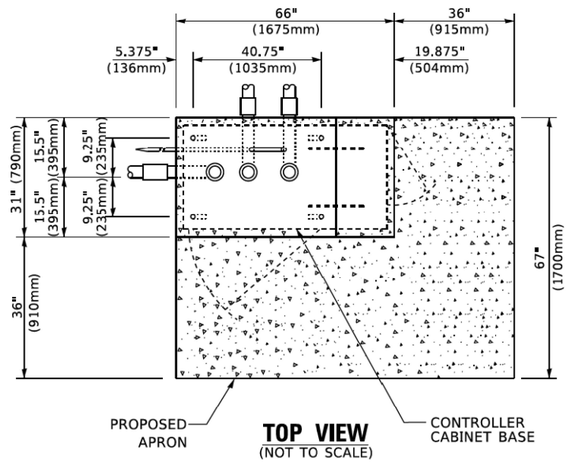


NOTES:

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.

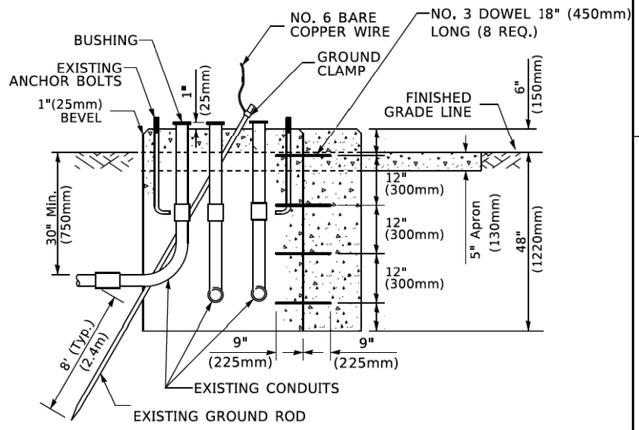
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



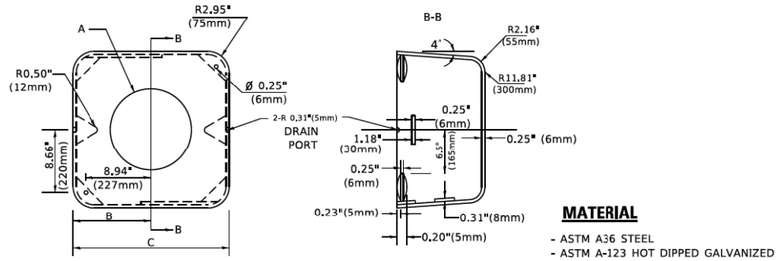
TOP VIEW

(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)

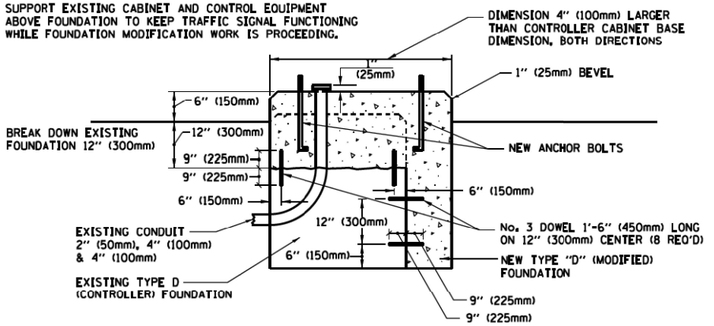
SHROUD

NOTES:

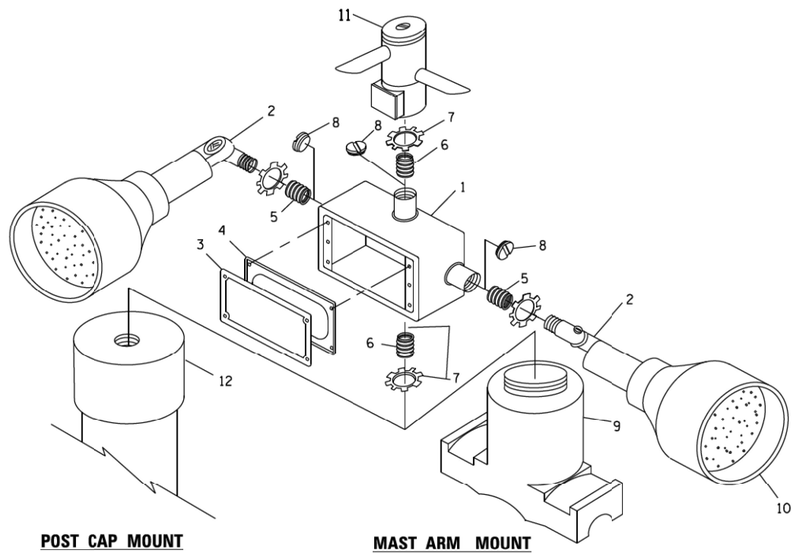
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



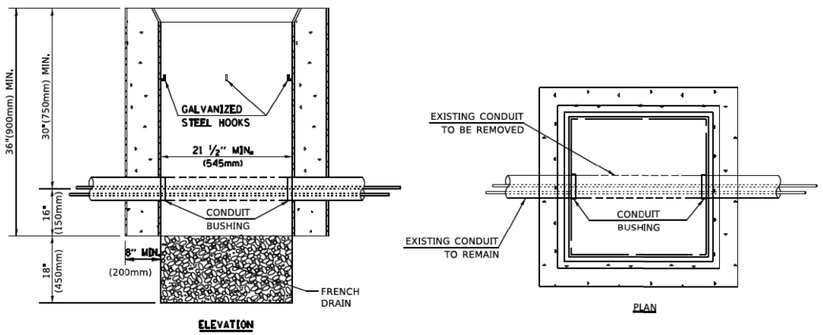
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	½"(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.



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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	71
	TS-05	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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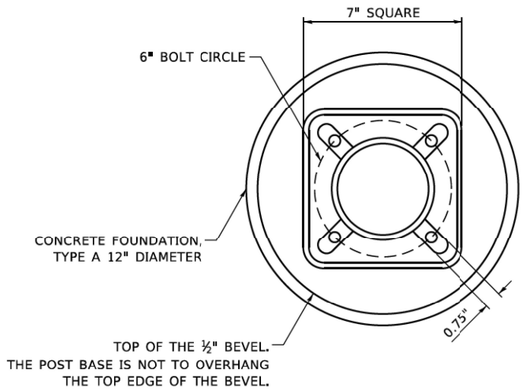
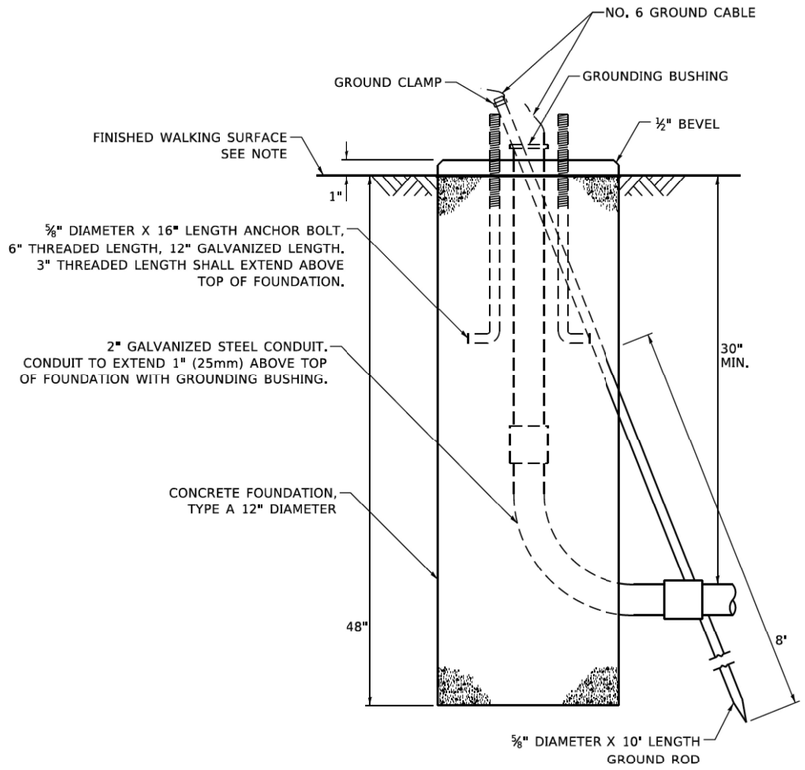


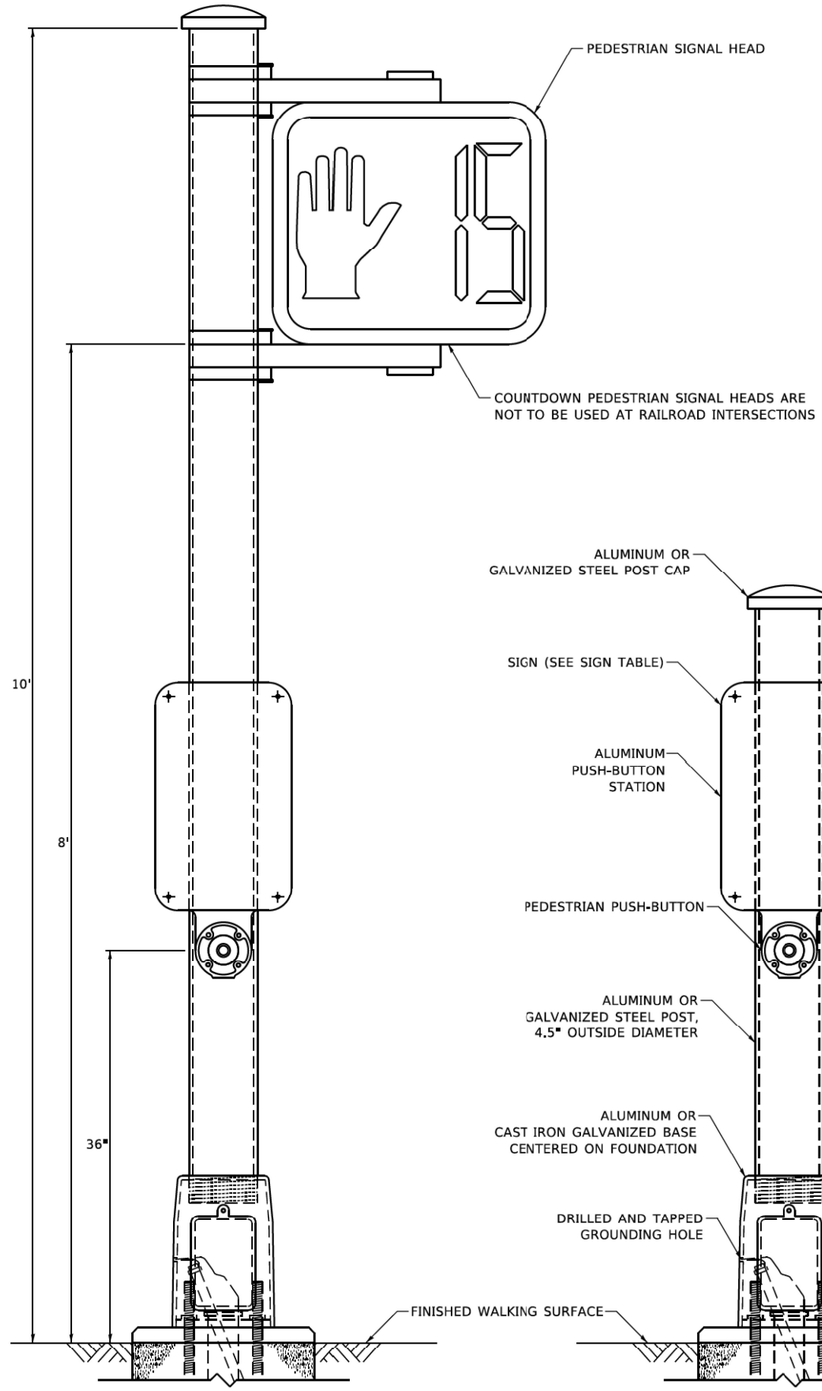
BOLT PATTERN

NOTE:

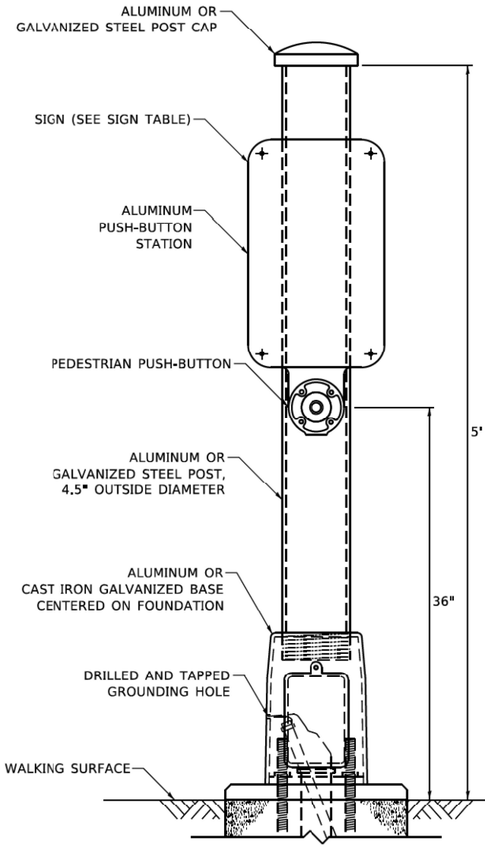
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

R10-3b R10-3d R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NTS | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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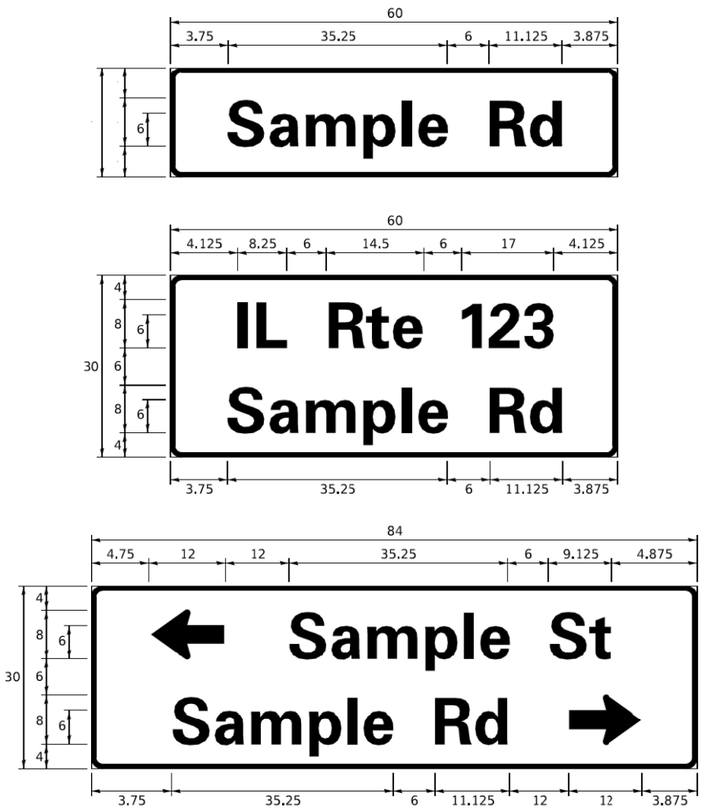
	TS–05	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
  MIDLOTHIAN, VA
- WESTERN REMAC, INC.
  WOODRIDGE, IL

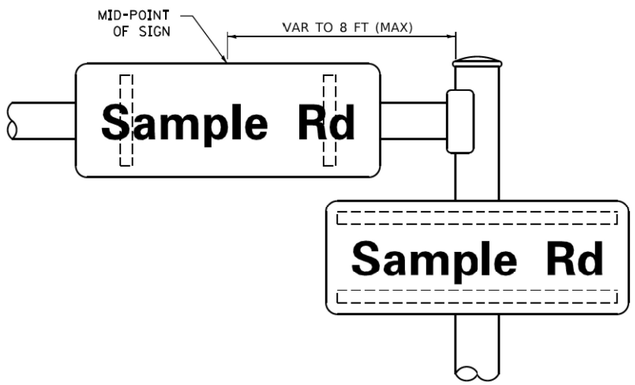
PARTS LISTING:

SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

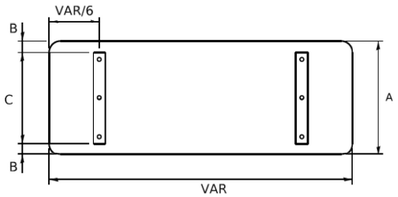
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

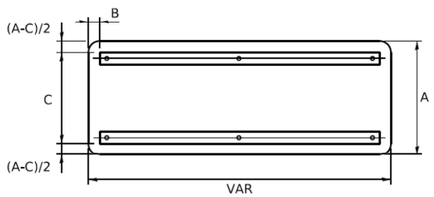
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



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

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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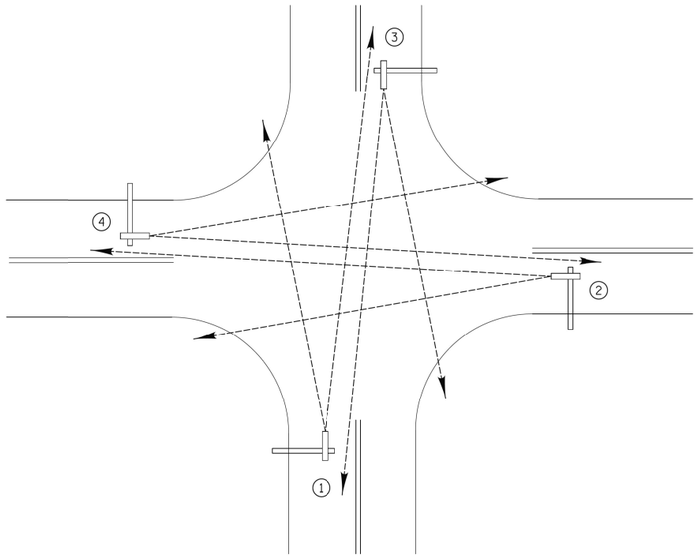
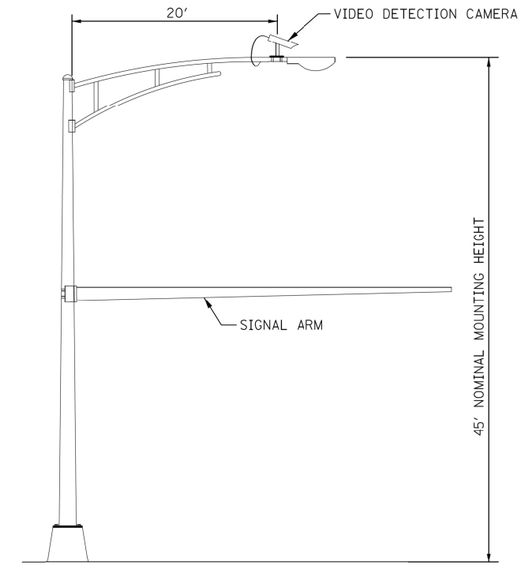
	ILLINOIS	FED. AID PROJECT		



TYPICAL VIDEO VEHICLE DETECTION SYSTEM

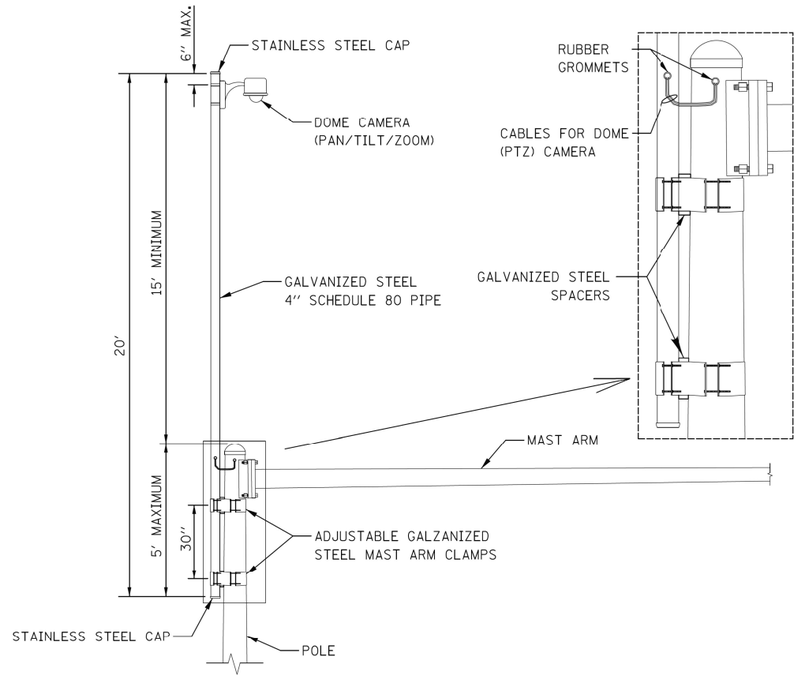
(NOT TO SCALE)

(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS ① ② ③ ④



COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS

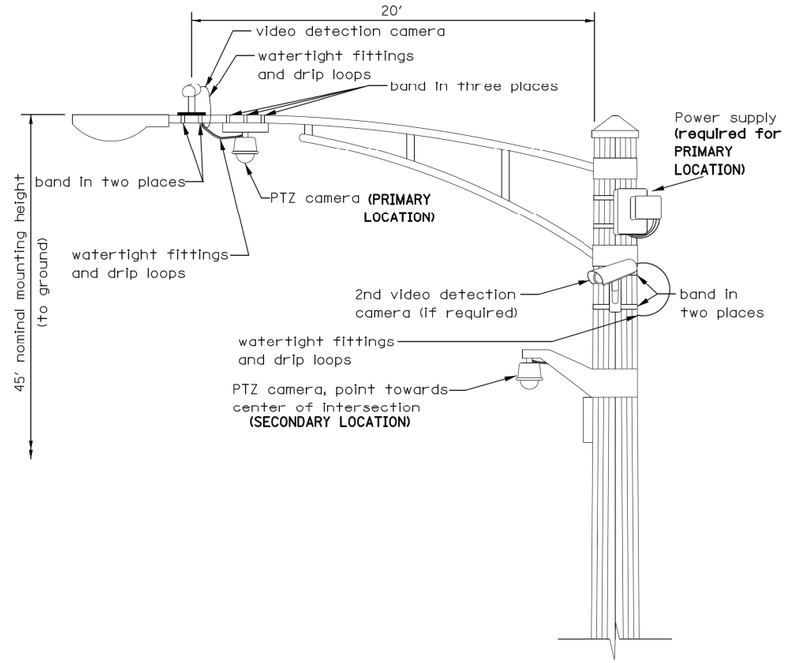
(NOT TO SCALE)



CAMERA MOUNTING ASSEMBLY DETAIL

(NOT TO SCALE)

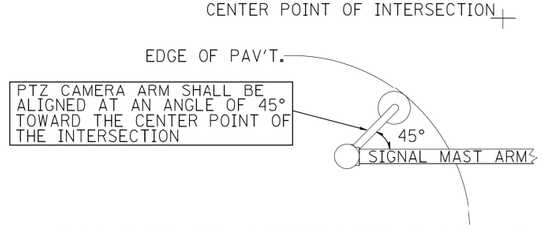
NOTES:
- THE MAST ARM IS TAPERED.
- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL

(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
- MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.



PTZ CAMERA MOUNTING DETAILS (SECONDARY LOCATION)

(NO SCALE)

REVISIONS	DATE
Mounting Details Revised	05/01/08
2nd Camera Locat. added	01/14/09
Mast Arm Taper Detail	06/01/12
Mounting Details Revised	06/13/14

LakeCounty Division of Transportation

APPROVED BY: J. P. NELSON
DATE: JUNE 13, 2014

CAMERA MOUNTING DETAILS

LC8900

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

PROFILE — SURVEYED / PLOTTED / CHECKED / B.M. NOTED / STRUCTURE NO.&TYPE CHKD / NOTE BOOK / NO. / BY / DATE

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Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

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DRAWN -		REVISED -
CHECKED -		REVISED -
DATE -	4/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
CAMERA MOUNTING DETAILS

SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	74
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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 EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

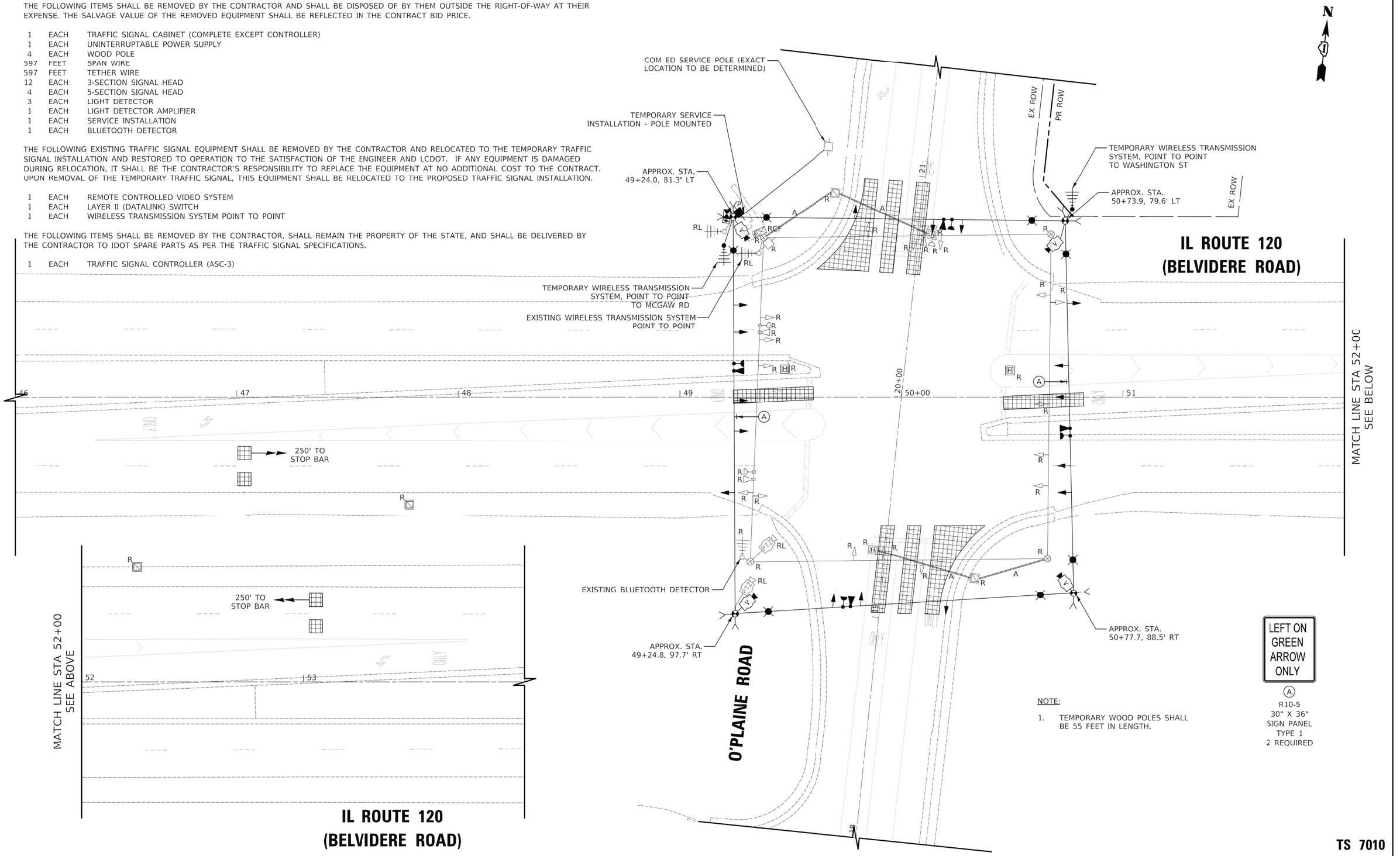
1	EACH	TRAFFIC SIGNAL CABINET (COMPLETE EXCEPT CONTROLLER)
1	EACH	UNINTERRUPTABLE POWER SUPPLY
4	EACH	WOOD POLE
597	FEET	SPAN WIRE
597	FEET	TETHER WIRE
12	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	SERVICE INSTALLATION
1	EACH	BLUETOOTH DETECTOR

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND RESTORED TO OPERATION TO THE SATISFACTION OF THE ENGINEER AND LCDOT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT. UPON REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THIS EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.

1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	WIRELESS TRANSMISSION SYSTEM POINT TO POINT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT SPARE PARTS AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1	EACH	TRAFFIC SIGNAL CONTROLLER (ASC-3)



NOTE:

1. TEMPORARY WOOD POLES SHALL BE 55 FEET IN LENGTH.

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

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / B.M. NOTED / STRUCTURE NO(TATN)S CHK'D / NOTE BOOK / NO. / BY / DATE

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DATE - 4/10/2023		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 20 40

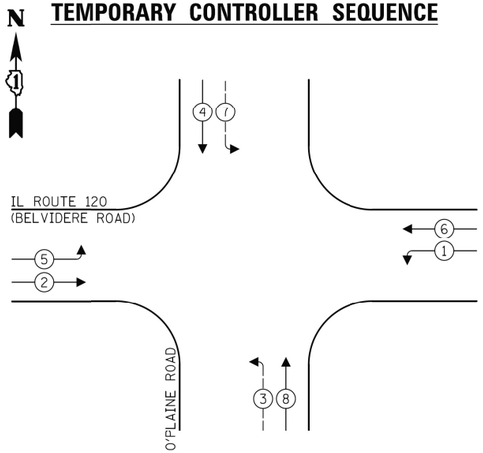
TEMPORARY SIGNAL INSTALLATION PLAN AND REMOVE EXISTING EQUIPMENT PLAN
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD

SHEET 1 OF 1 SHEETS STA. TO STA.

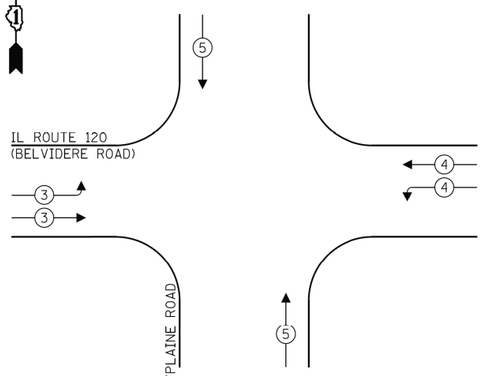
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	75
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

TS 7010

TEMPORARY CONTROLLER SEQUENCE

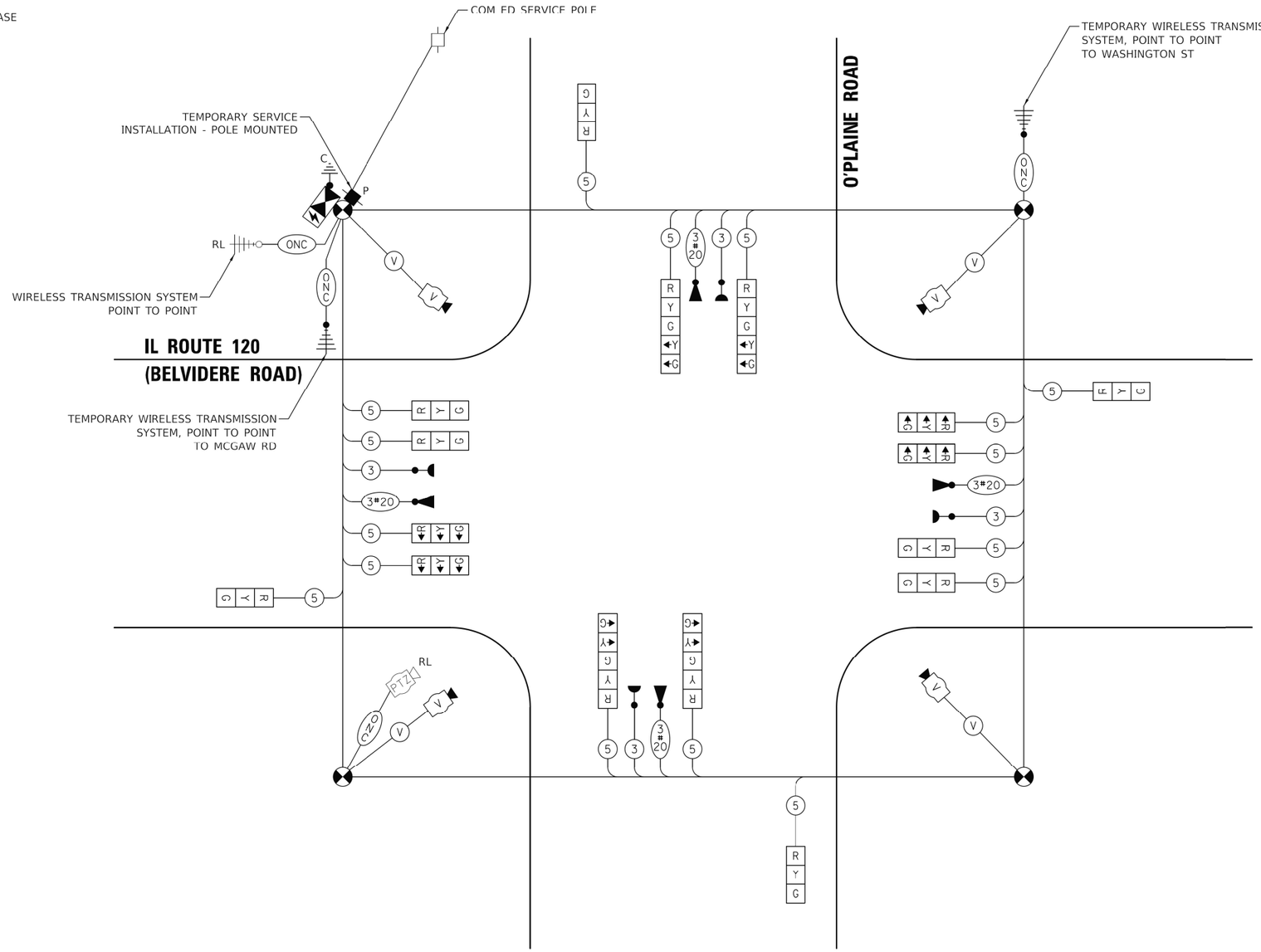


TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



TEMPORARY CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	473.4

ENERGY COSTS TO:

ILLINOIS DEPT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: 847-816-5239
COMPANY: COMED
ACCOUNT NUMBER:

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

PROFILE — SURVEYED, DRAWN, GRADES CHECKED, B.M. NOTED, STRUCTURE NO(S)/ITN'S CHK'D, NOTE BOOK, NO., BY, DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

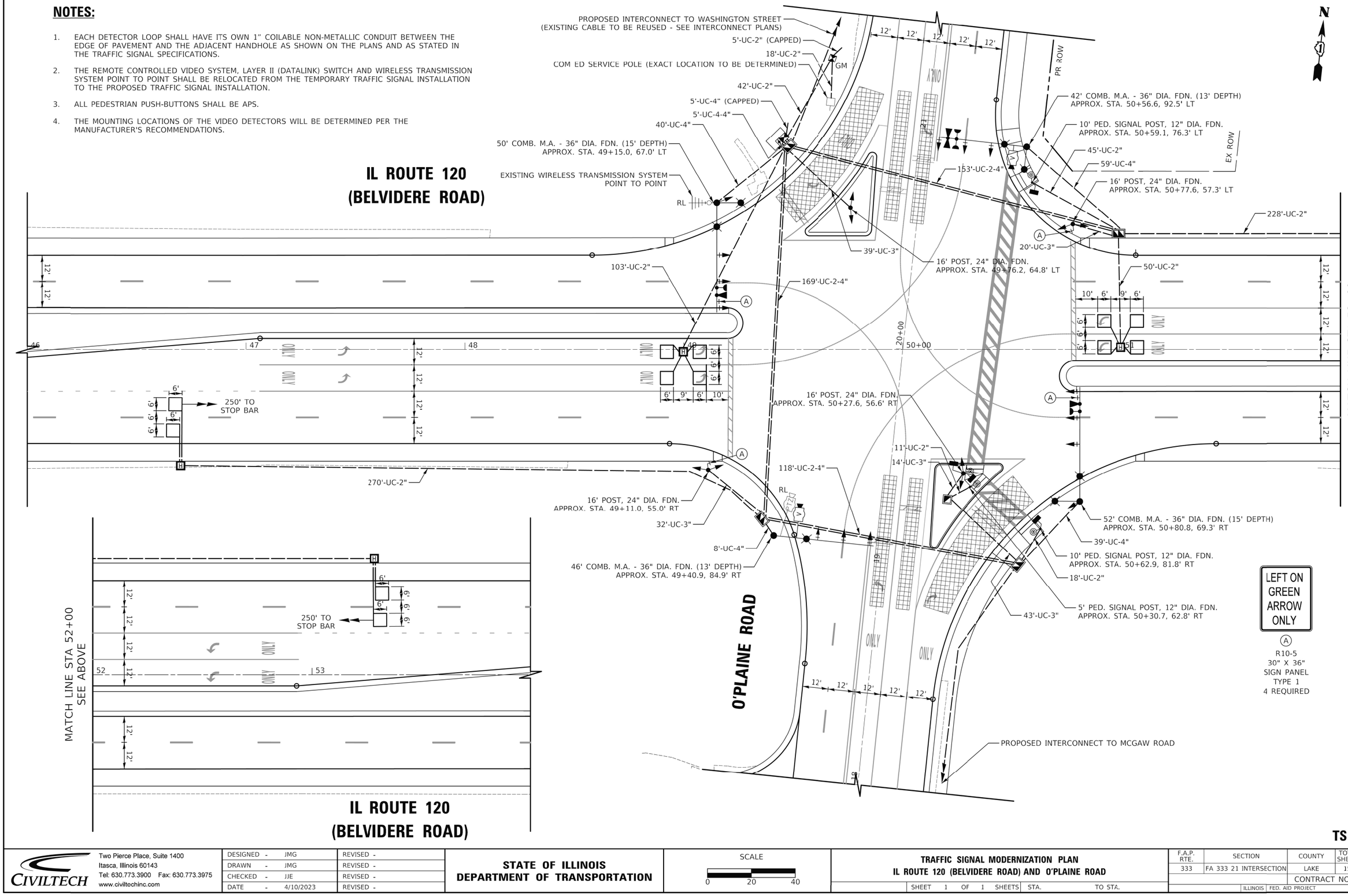
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	76
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE REMOTE CONTROLLED VIDEO SYSTEM, LAYER II (DATALINK) SWITCH AND WIRELESS TRANSMISSION SYSTEM POINT TO POINT SHALL BE RELOCATED FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.
3. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.
4. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.____, BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NO(S)/TWS CHKD, NOTE BOOK, NO.____, BY, DATE



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DATE - 4/10/2023	REVISED -	

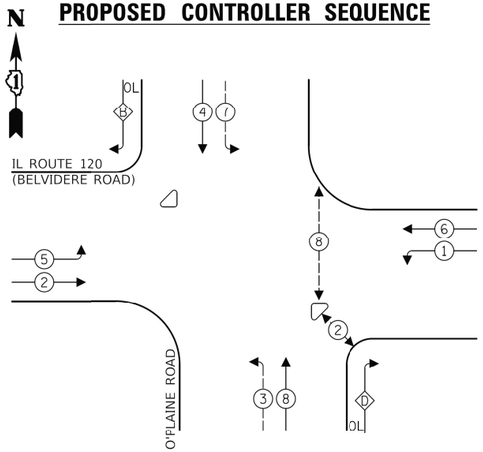
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE 0 20 40

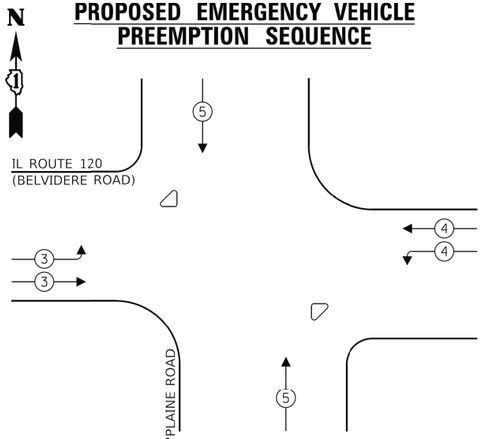
TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	77
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

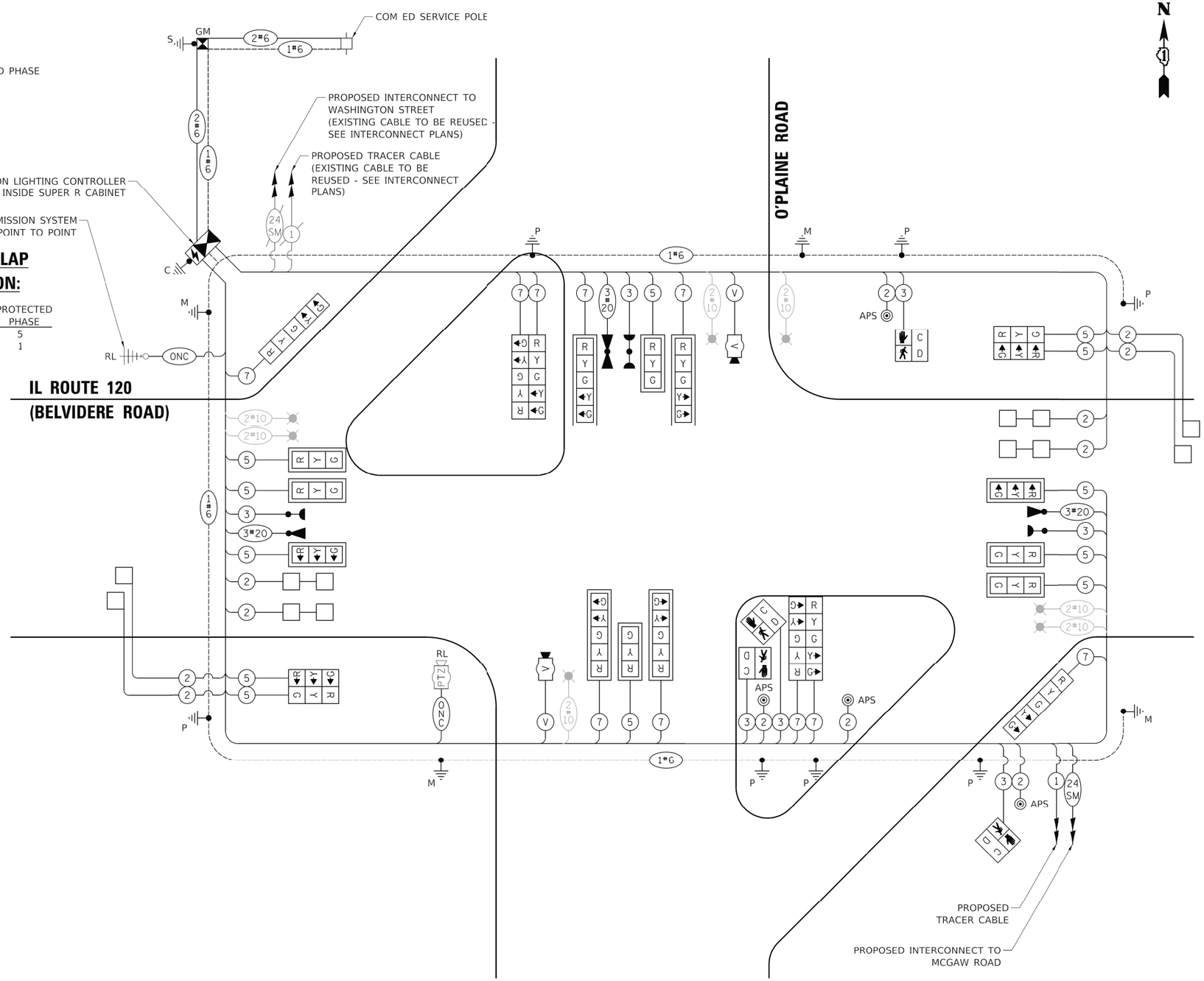


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5
D	=	8	+	1



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	22	20	5	22.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	7	185	50	647.5
			TOTAL =	1284.3

ENERGY COSTS TO:

ILLINOIS DEPT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: 847-816-5239
COMPANY: COMED
ACCOUNT NUMBER: 02341-00148

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

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NO(TYPE) CHK'D / NOTE BOOK / NO. / BY / DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	78
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PLAN
NOTE BOOK
NO.
SURVEYED
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RT. OF WAY CHECKED
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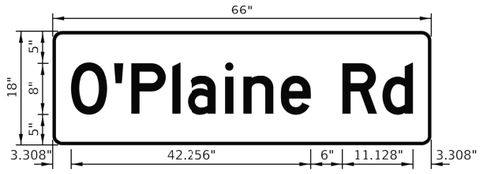
BY
DATE

SIGN PANEL – TYPE 1

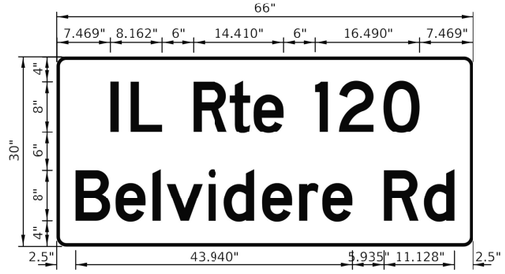
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	TYPE 1	ZZ	2

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	TYPE 2	ZZ	2

NOTE:

1. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

PROFILE
NOTE BOOK
NO.
SURVEYED
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CHECKED
ALIGNMENT CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SIGN PANEL - TYPE 1	SQ FT	46.5
	SIGN PANEL - TYPE 2	SQ FT	27.5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	790
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	148
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1051
	HANDHOLE	EACH	1
	HEAVY-DUTY HANDHOLE	EACH	4
	DOUBLE HANDHOLE	EACH	4
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1426
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2349
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3215
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2606
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2562
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	101
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1739
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	20
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	8
	DETECTOR LOOP, TYPE I	FOOT	372
*	LIGHT DETECTOR	EACH	3
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	892
	RELOCATE SWITCH	EACH	2
	OUTDOOR RATED NETWORK CABLE	FOOT	401
	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% OF COST TO THE VILLAGE OF GURNEE

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CHECKED - JJE		REVISED -
DATE - 4/10/2023		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	79
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

PLAN
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PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
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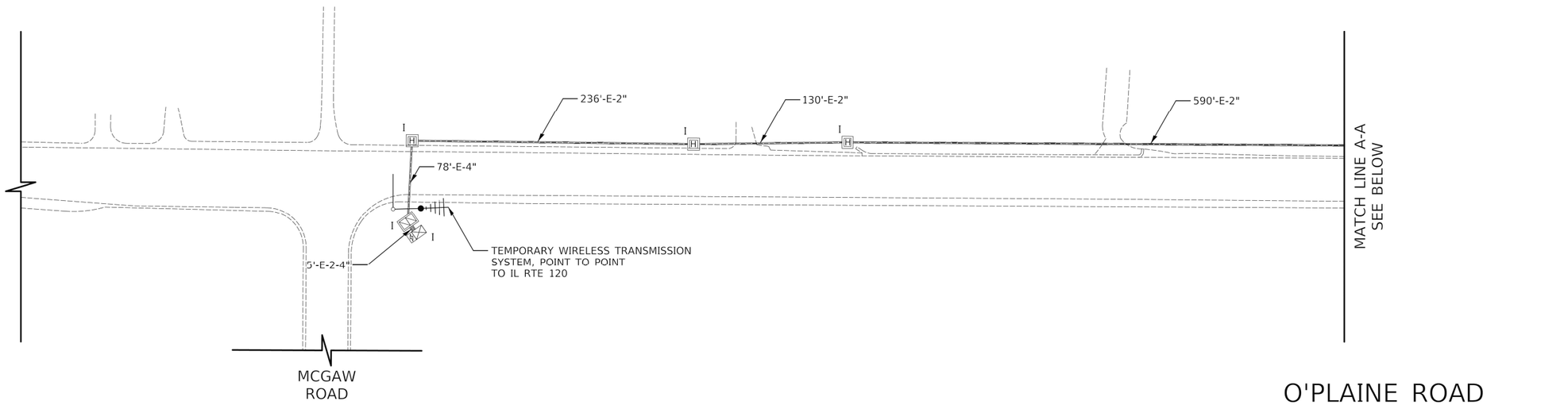
NOTE BOOK
NO.
BY
DATE



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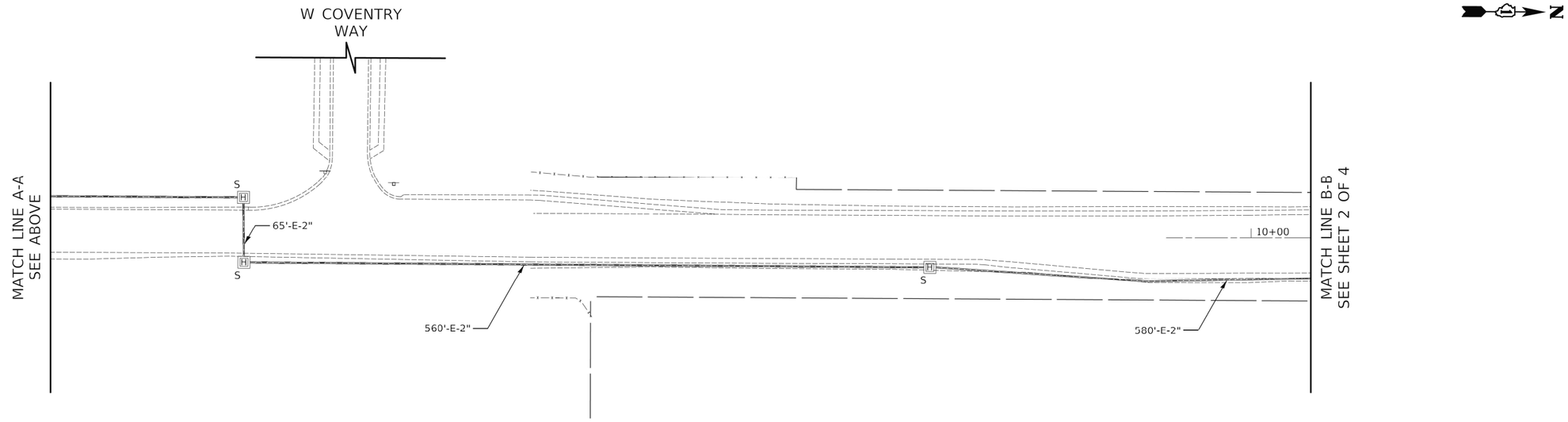

LCDOT SYSTEM

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DATE - 4/10/2023		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 50 100

TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	80
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED BY
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
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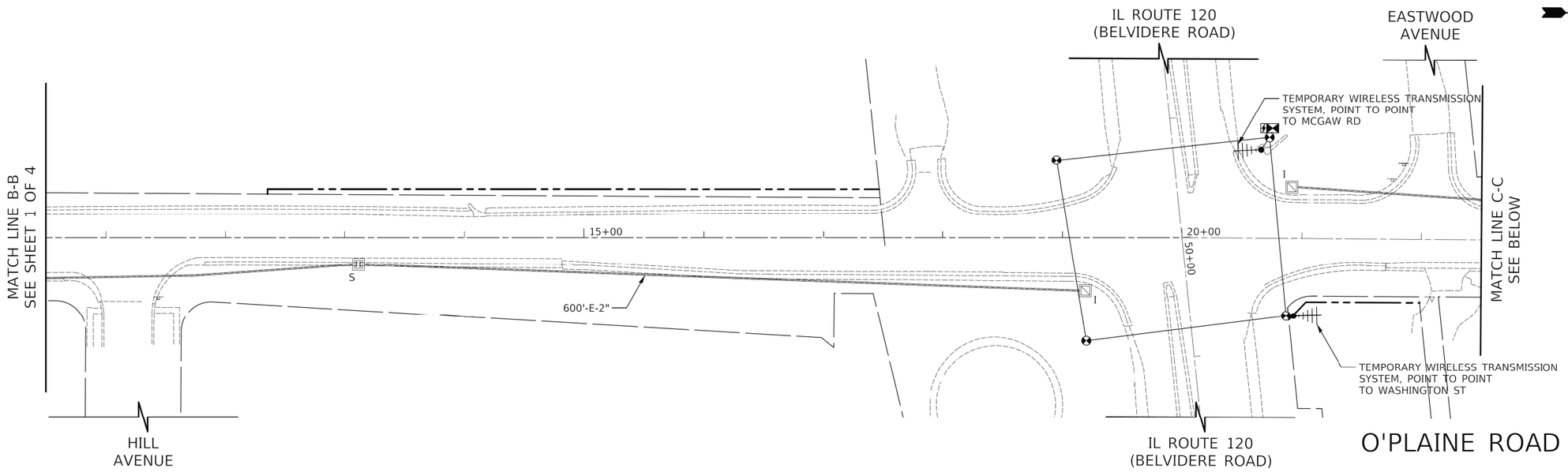
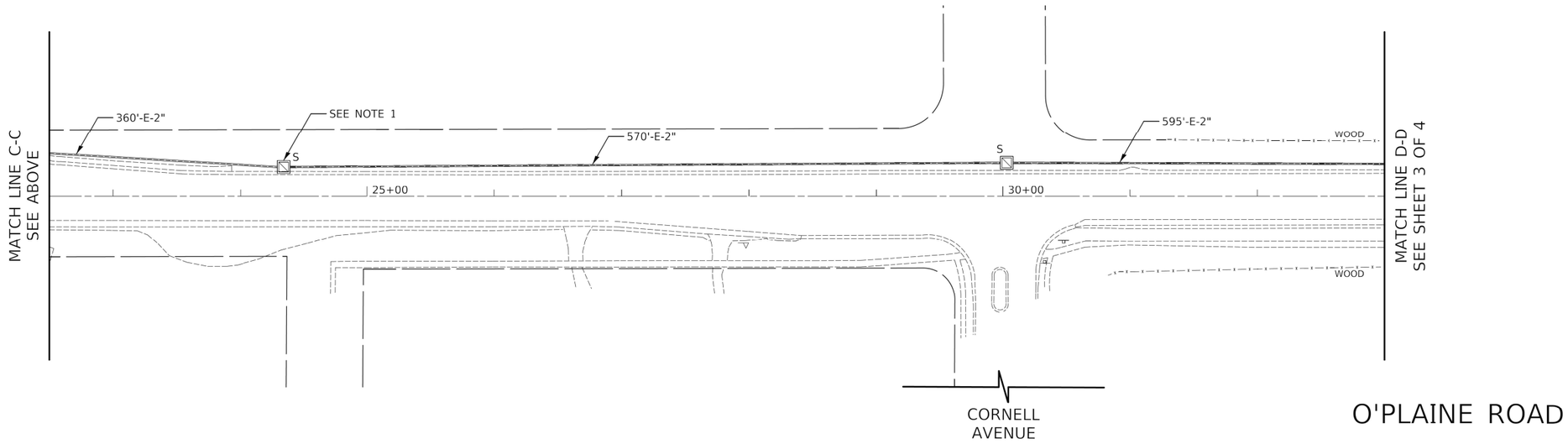


PROFILE
SURVEYED
DRAWN
CHECKED
CHANGES CHECKED
B.M. NOTED
STRUCTURE NO.
NOTE BOOK
NO.
BY
DATE

NOTE:

1. DISCONNECT EXISTING FIBER OPTIC CABLE AND TRACER CABLE FROM IL ROUTE 120 CONTROLLER, REMOVE FROM CONDUITS, AND SAFELY STORE CABLE IN HANDHOLE DURING CONSTRUCTION. RE-INSTALL CABLE INTO PROPOSED CONDUITS AND RE-CONNECT TO PROPOSED CONTROLLER.



LCDOT SYSTEM

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Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - JMG		REVISED -
DRAWN - JMG		REVISED -
CHECKED - JJE		REVISED -
DATE - 4/10/2023		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

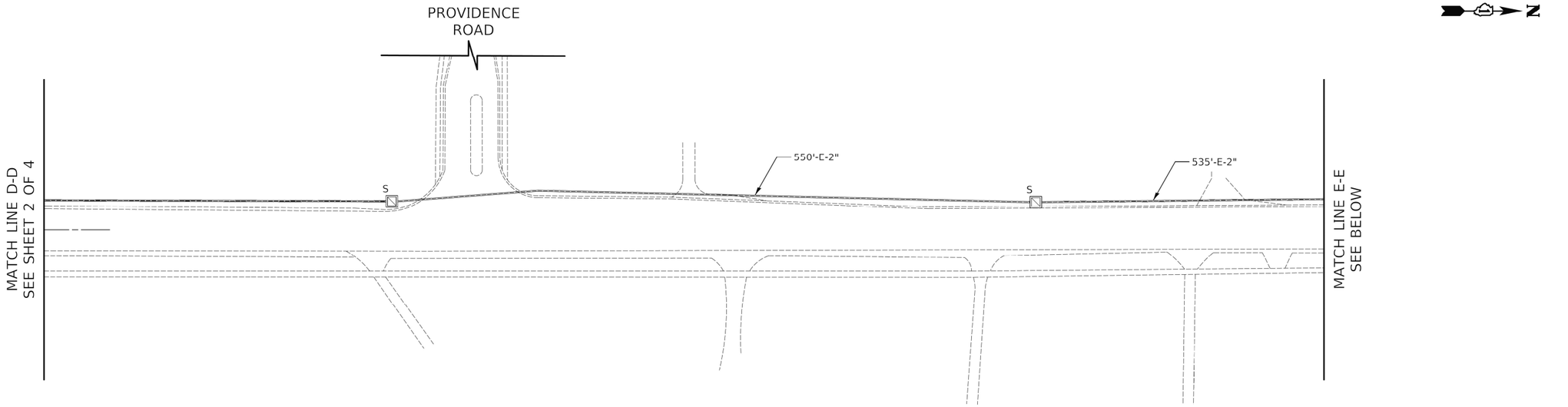
SCALE
0 50 100

TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 2 OF 4 SHEETS STA. TO STA.

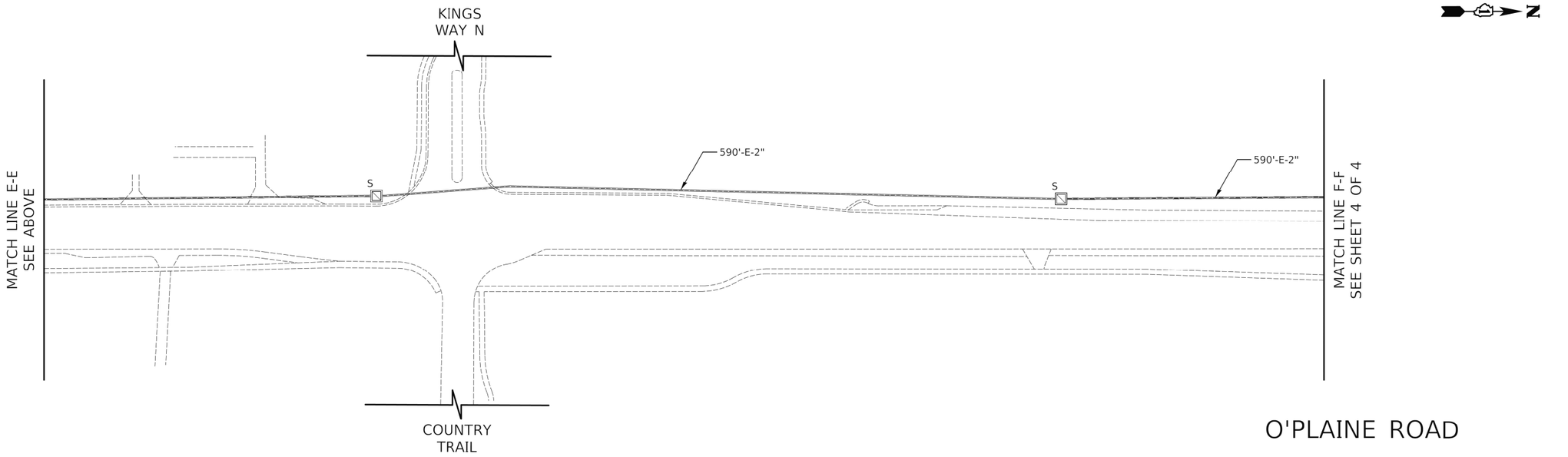
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	81
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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



O'PLAINE ROAD

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	CHECKED	
NO.	B.M. NOTED	
	STRUCTURE NO/ATHIS CHKD	



O'PLAINE ROAD

LCDOT SYSTEM

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DRAWN - JMG	REVISED -	
CHECKED - JJE	REVISED -	
DATE - 4/10/2023	REVISED -	

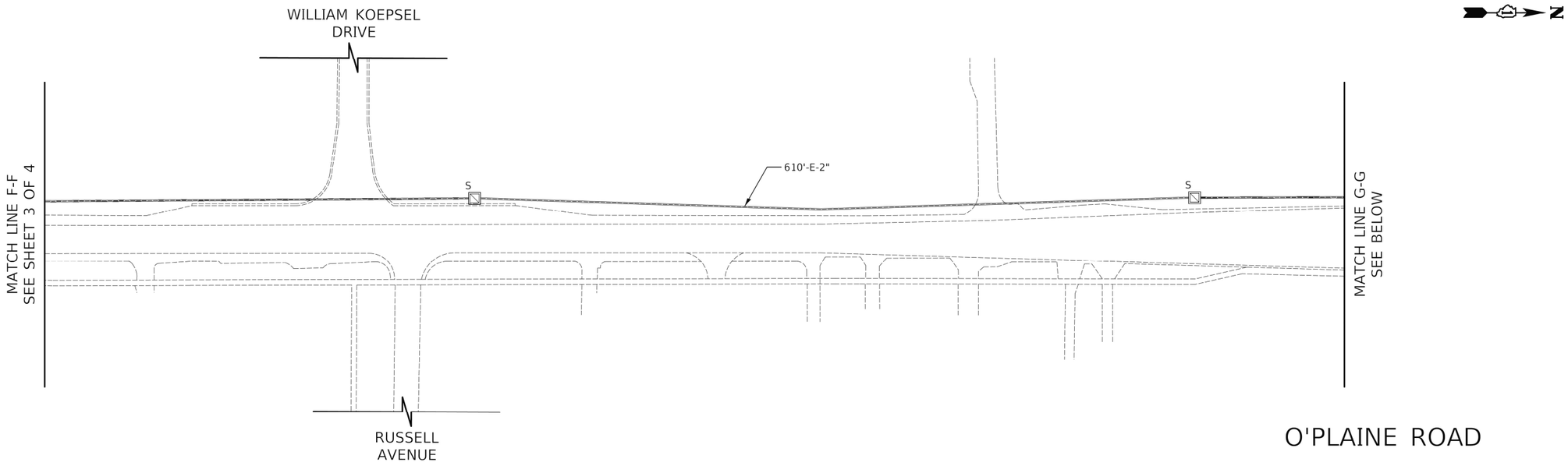
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 50 100

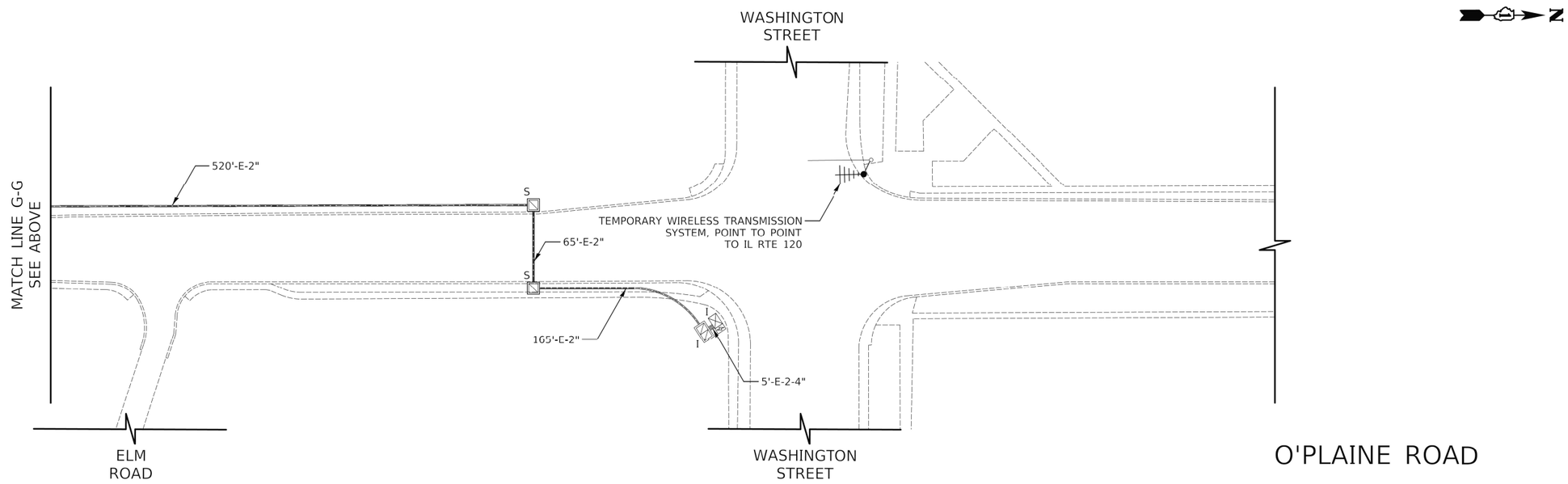
TEMPORARY INTERCONNECT PLAN (SHEET 3 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	82
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



O'PLAINE ROAD

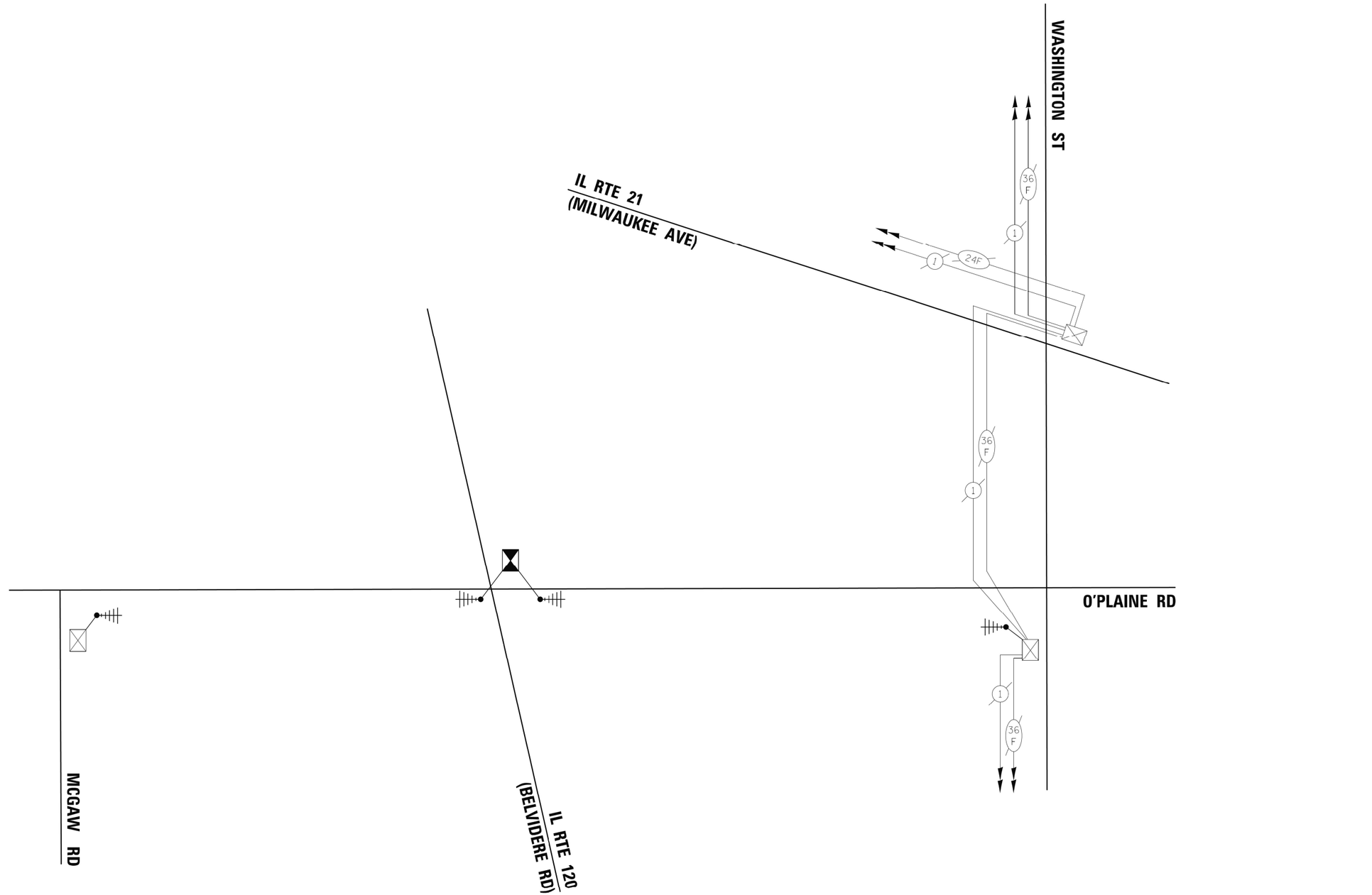


O'PLAINE ROAD

LCDOT SYSTEM

CIVILTECH Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com	DESIGNED - JMG	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	SCALE 0 50 100	**TEMPORARY INTERCONNECT PLAN (SHEET 4 OF 4)** **O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET** SHEET 4 OF 4 SHEETS STA. TO STA.
	DRAWN - JMG	REVISED -			
	CHECKED - JJE	REVISED -			
	DATE - 4/10/2023	REVISED -			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	83
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK CHECKED		
NO._____ B.M. NOTED		
STRUCTURE NO'S/ITMS CHKD		

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CHECKED - JJE	REVISED -	
DATE - 4/10/2023	REVISED -	

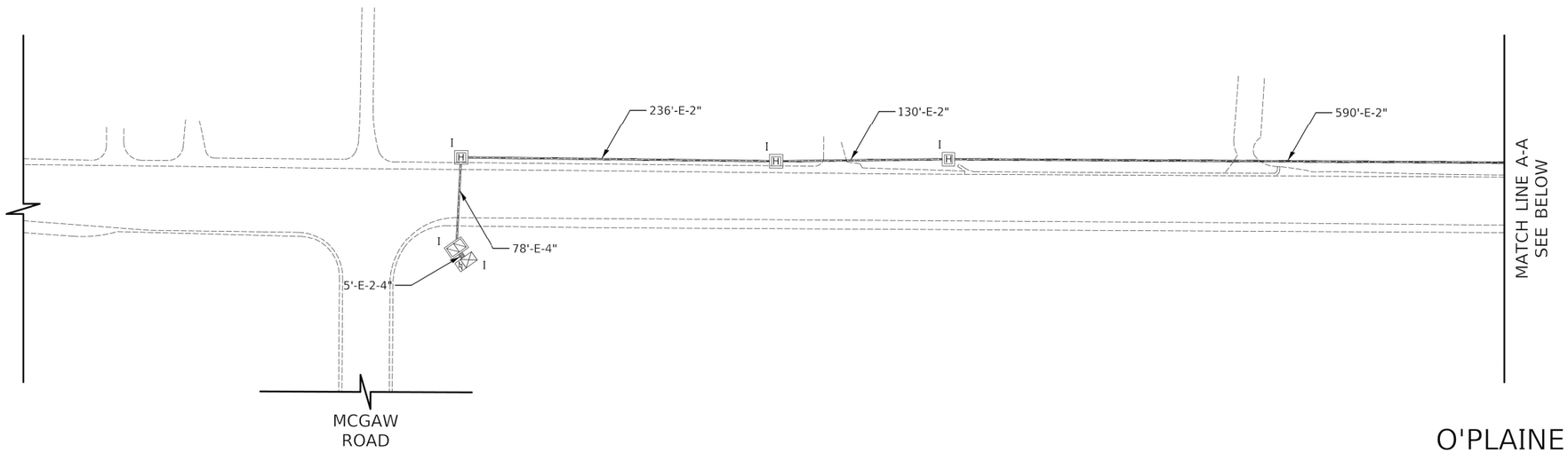
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 1 OF 1 SHEETS STA. TO STA.

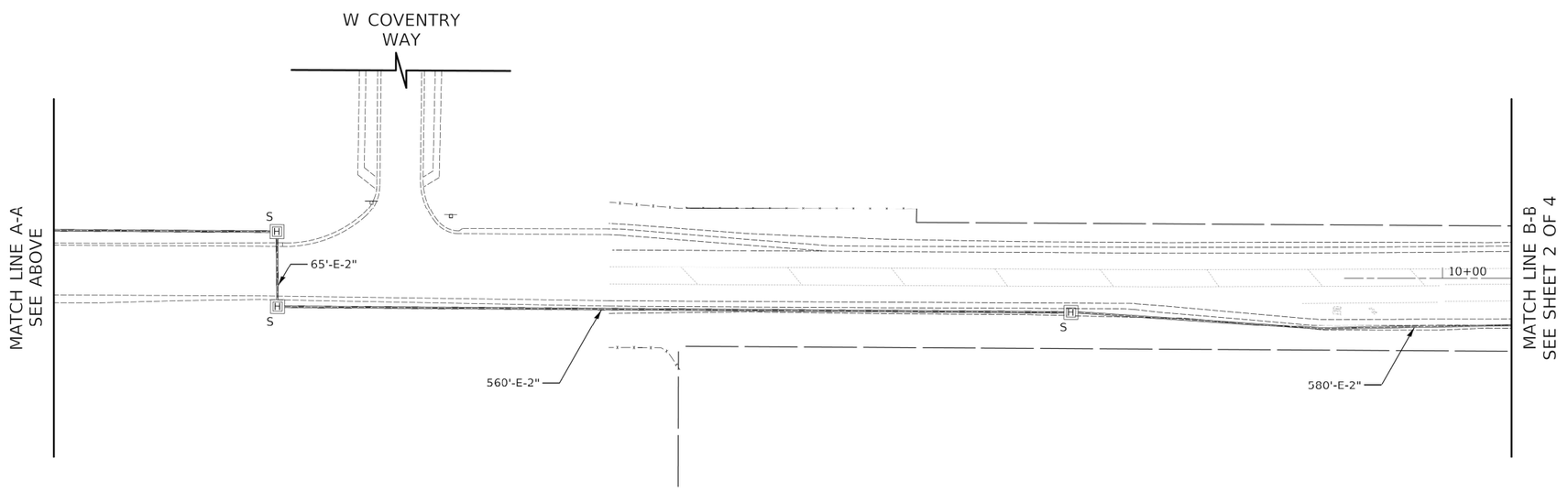
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	84
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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



O'PLAINE ROAD

PROFILE
SURVEYED
PLOTTED
CHECKED
B.M. NOTED
STRUCTURE NO.
NOTE BOOK
NO.
BY
DATE



O'PLAINE ROAD

LCDOT SYSTEM

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DATE - 4/10/2023		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 50 100

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	85
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
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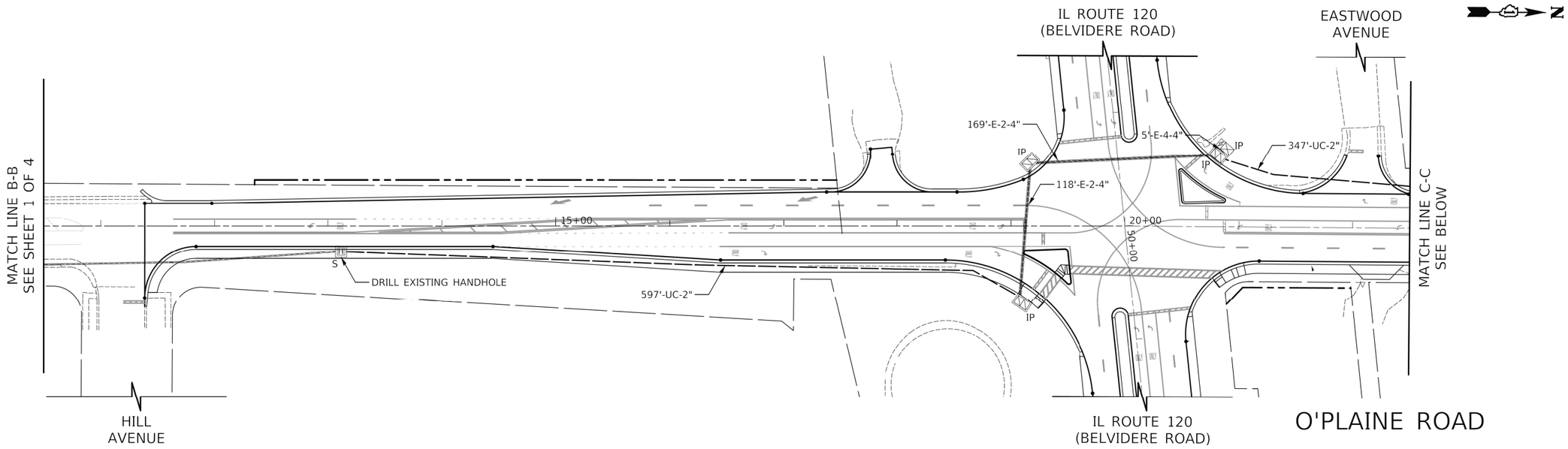
BY
DATE



NOTE:

1. DISCONNECT EXISTING FIBER OPTIC CABLE AND TRACER CABLE FROM IL ROUTE 120 CONTROLLER, REMOVE FROM CONDUITS, AND SAFELY STORE CABLE IN HANDHOLE DURING CONSTRUCTION. RE-INSTALL CABLE INTO PROPOSED CONDUITS AND RE-CONNECT TO PROPOSED CONTROLLER.

PROFILE
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B.M. NOTED
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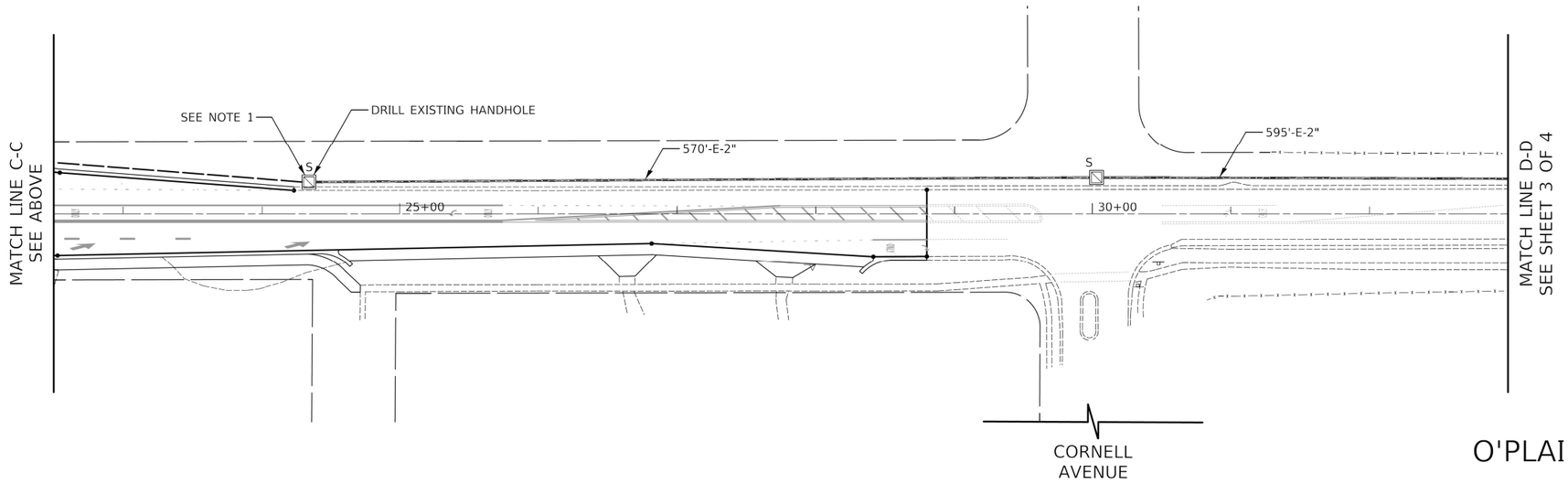

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DRAWN - JMG	REVISED -	
CHECKED - JJE	REVISED -	
DATE - 4/10/2023	REVISED -	

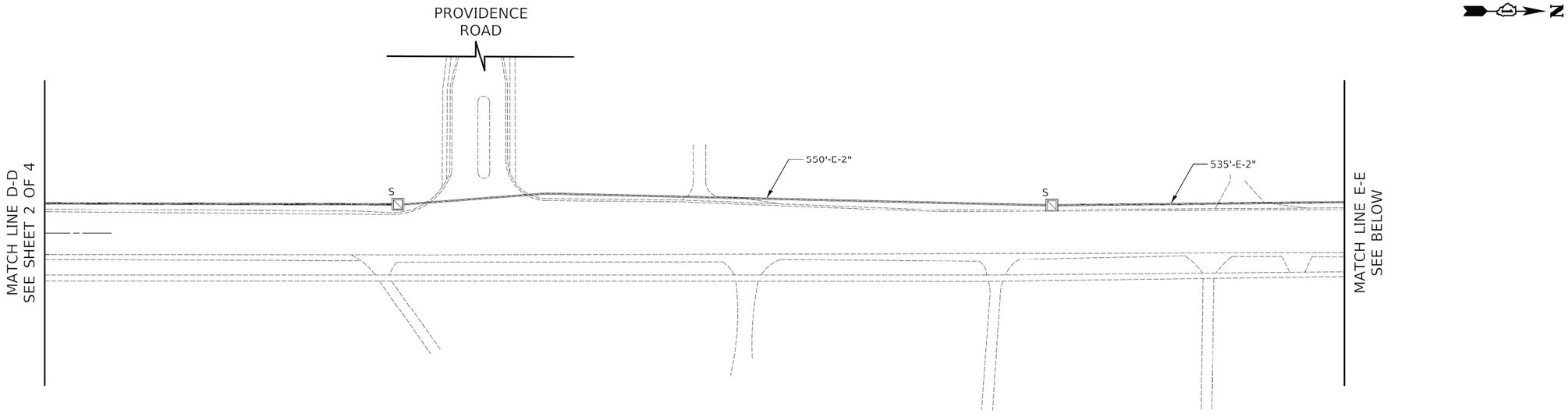
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 50 100

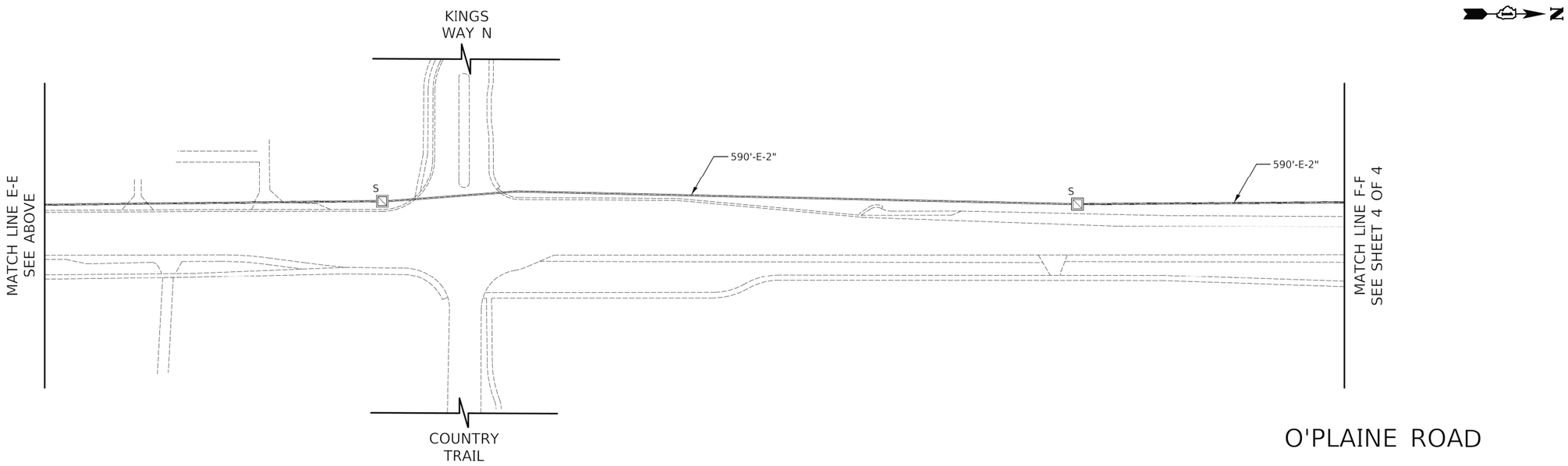
PROPOSED INTERCONNECT PLAN (SHEET 2 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	86
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



O'PLAINE ROAD



O'PLAINE ROAD

LCDOT SYSTEM

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

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

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DRAWN - JMG	REVISED -	
CHECKED - JJE	REVISED -	
DATE - 4/10/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 50 100

PROPOSED INTERCONNECT PLAN (SHEET 3 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	87
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PLAN
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NOTE BOOK
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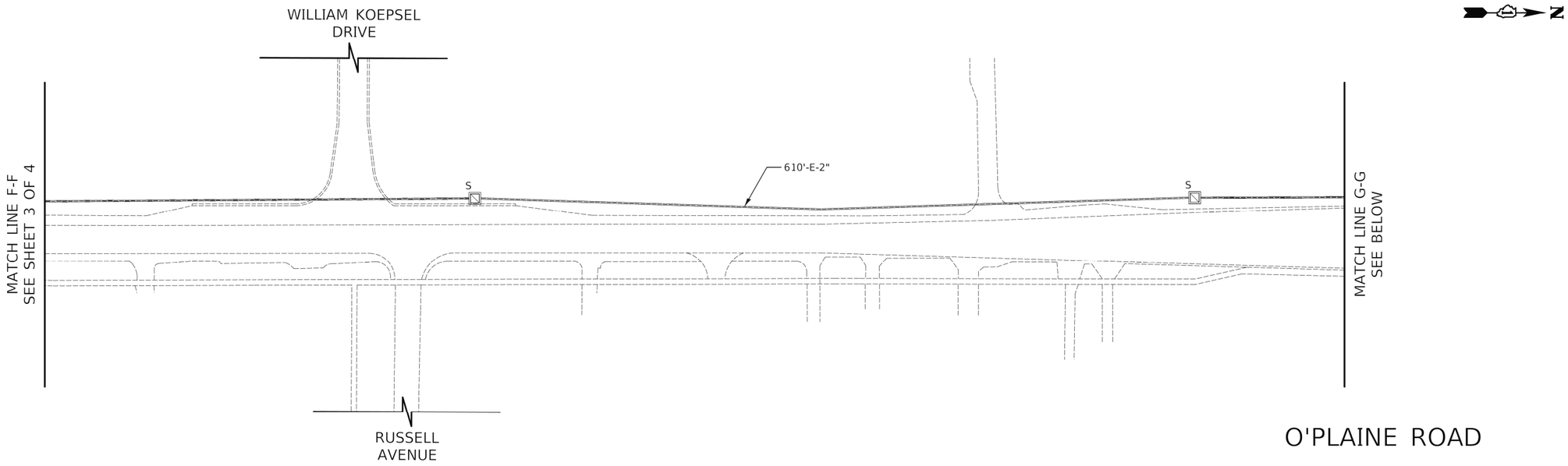
ALIGMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE



O'PLAINE ROAD

PROFILE
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PLOTTED
NOTE BOOK
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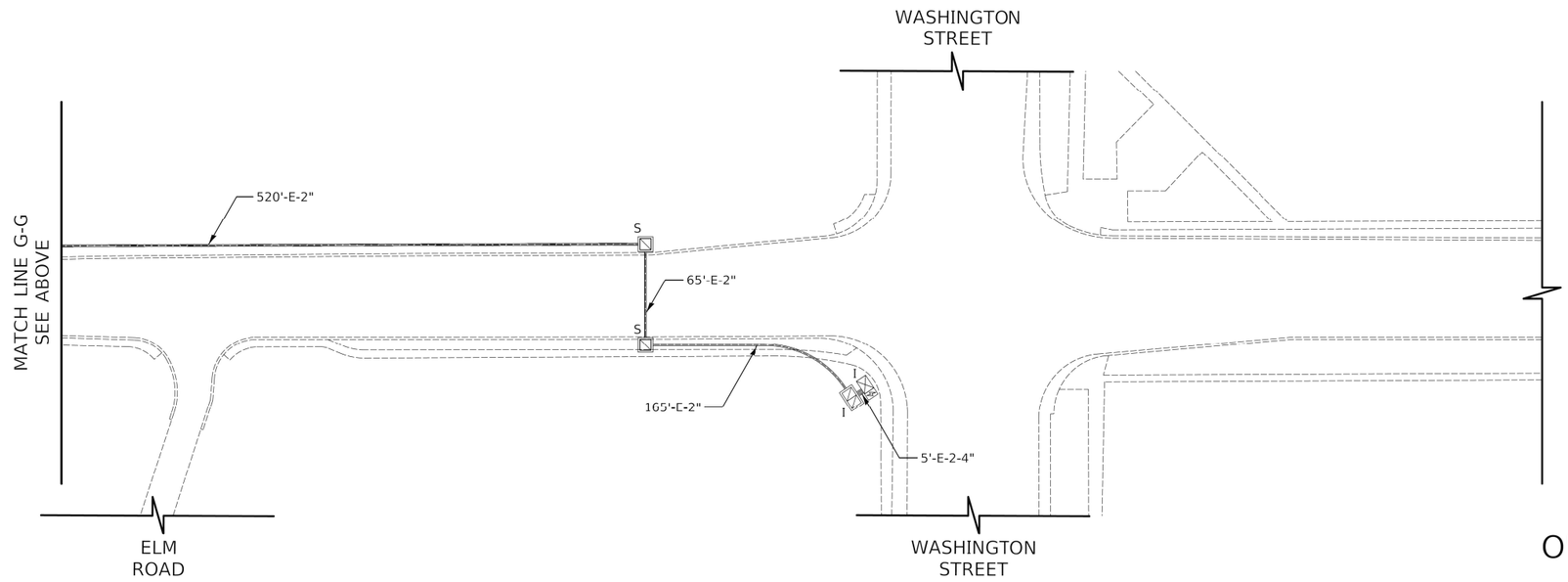
CHECKED
CHECKED
B.M. NOTED
STRUCTURE NO
PATHS CHKD
BY
DATE



O'PLAINE ROAD

LCDOT SYSTEM

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DESIGNED - JMG		REVISED -
DRAWN - JMG		REVISED -
CHECKED - JJE		REVISED -
DATE - 4/10/2023		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE
0 50 100

PROPOSED INTERCONNECT PLAN (SHEET 4 OF 4)
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

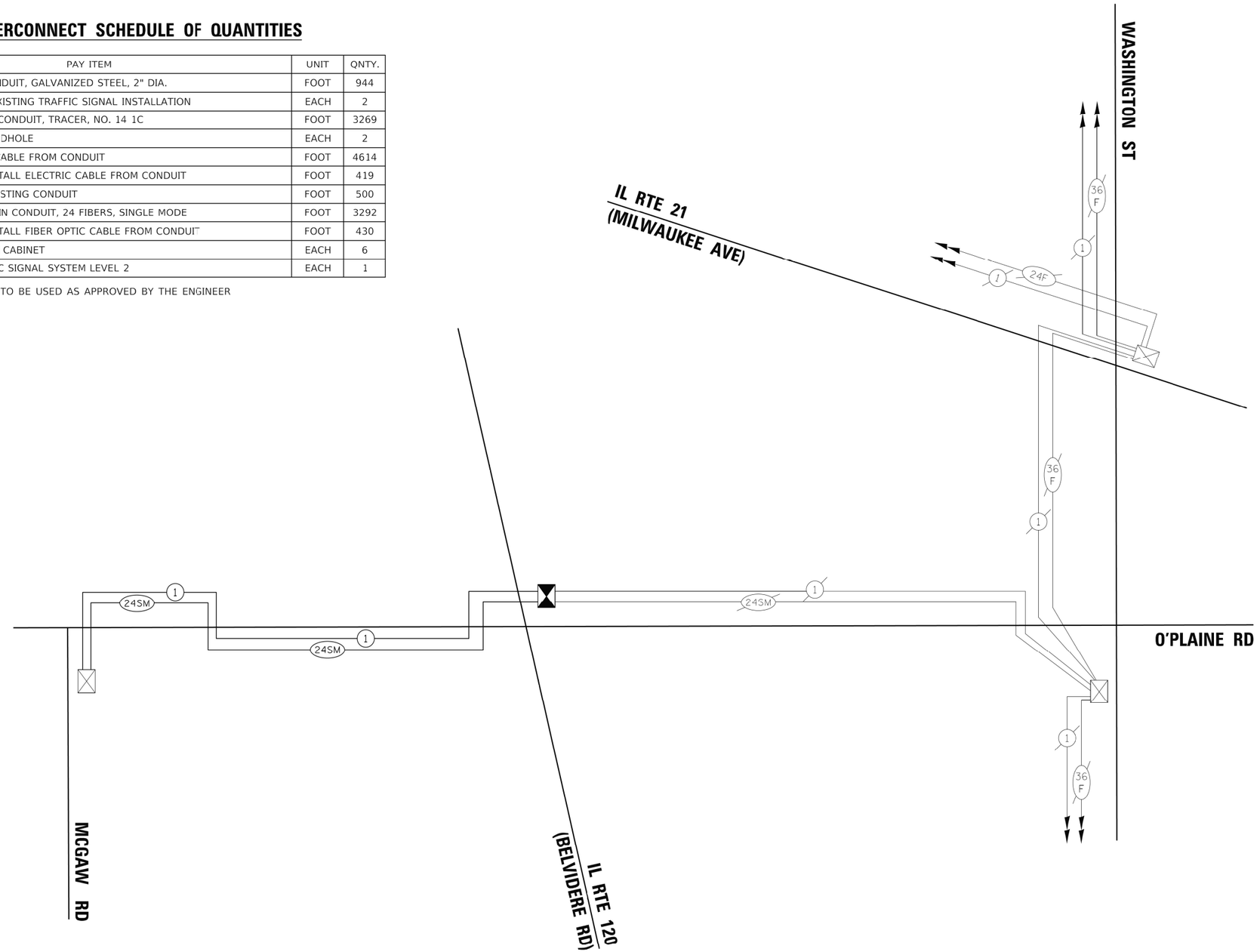
SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	88
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

INTERCONNECT SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	944
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3269
	DRILL EXISTING HANDHOLE	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4614
	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	419
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	500
	FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	3292
	REMOVE AND REINSTALL FIBER OPTIC CABLE FROM CONDUIT	FOOT	430
	TERMINATE FIBER IN CABINET	EACH	6
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

* NOMINAL QUANTITY TO BE USED AS APPROVED BY THE ENGINEER



PLAN — SURVEYED / PLOTTED / CHECKED / B.M. NOTED / STRUCTURE NO._____ / NOTE BOOK / NO._____ / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / BY / DATE

PROFILE — SURVEYED / PLOTTED / CHECKED / B.M. NOTED / STRUCTURE NO._____ / NOTE BOOK / NO._____ / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / BY / DATE

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DRAWN - JMG	REVISED -	
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DATE - 4/10/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
O'PLAINE ROAD – MCGAW ROAD TO WASHINGTON STREET

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	89
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PARSONS

EXISTING CONNECTOR / EXISTING FIBER
NEW CONNECTOR / EXISTING FIBER
EXISTING FUSION SPLICE / EXISTING FIBER
NEW FUSION SPLICE / EXISTING FIBER
NEW CONNECTOR / NEW FIBER
NEW FUSION SPLICE / NEW FIBER

PLAN
NOTE BOOK
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SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK
NO.
SURVEYED
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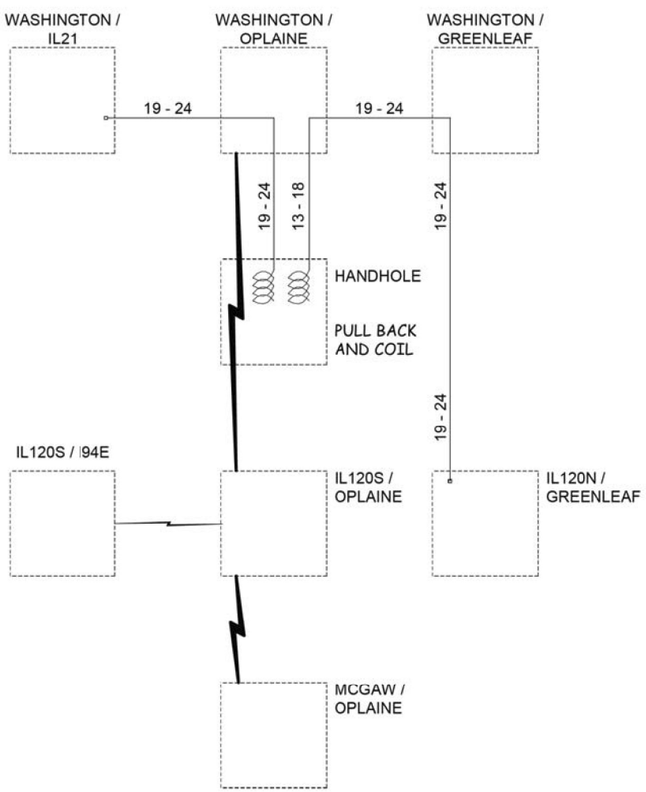
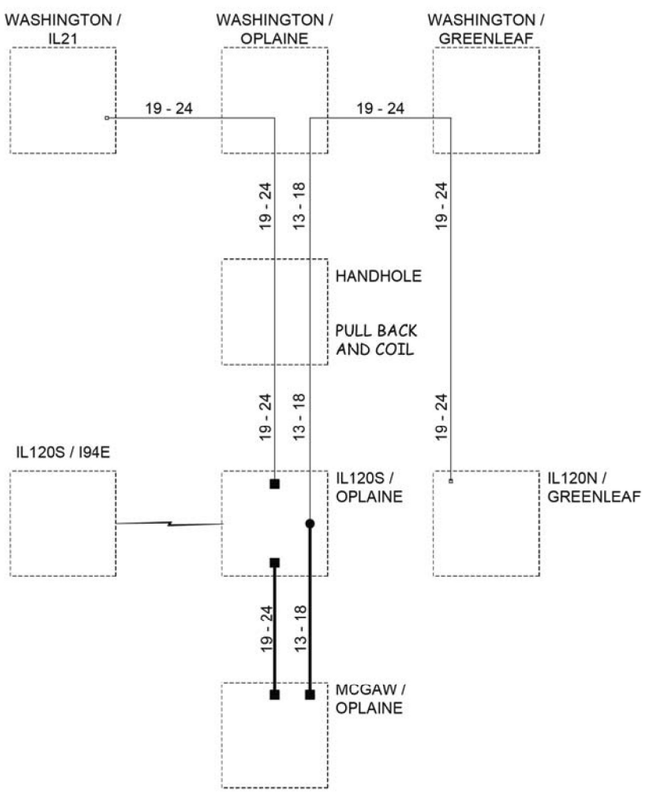
PLANES CHECKED
B.M. NOTED
STRUCTURE NO/TYPE CHKD
BY
DATE



TEMP



FINAL

DESIGNED - DG	REVISED -		LAKE COUNTY DIVISION OF TRANSPORTATION
DRAWN - YM	REVISED -		
CHECKED - DG	REVISED -		
DATE 2023.03.20	REVISED -		

IL120 / O'PLAINE
FIBER SPLICING DIAGRAM
SCALE N/A

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS

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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 4/10/2023	REVISED -

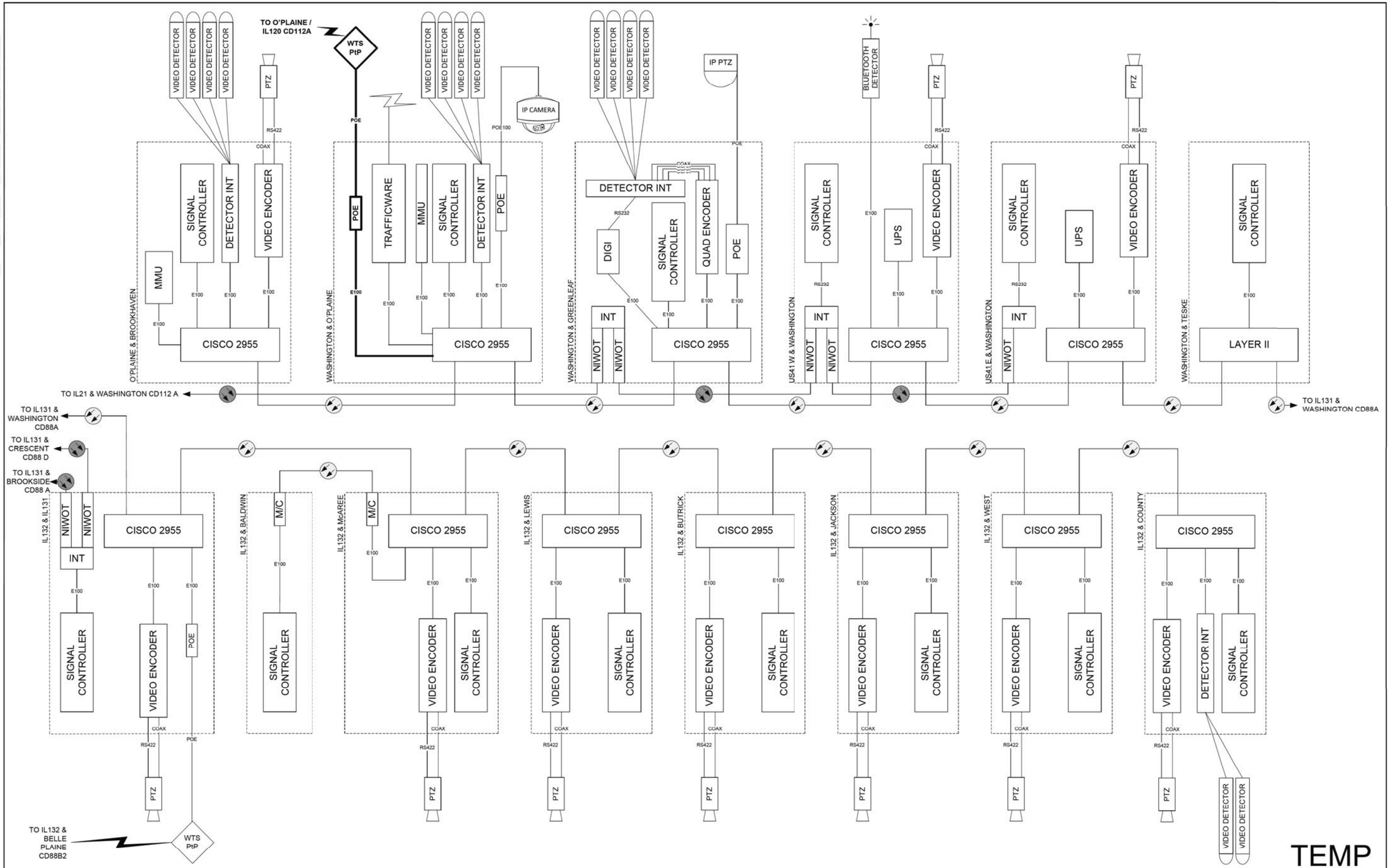
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
FIBER SPLICING DIAGRAM
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	90

CONTRACT NO. 62R18
ILLINOIS | FED. AID PROJECT

PARSONS



DESIGNED - DG	REVISED - 2018.01.16	ADD TRFCWAVE WASH / OPLAINE	LAKE COUNTY DIVISION OF TRANSPORTATION	88B IL131 / WASHINGTON	ROUTE	SECTION	SECTION NUMBER	SHEET 88B	SHEETS
DRAWN - YM	REVISED -								
CHECKED - DG	REVISED -								
DATE 2023.03.20	REVISED -			SCALE N/A					

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CHECKED -		REVISED -
DATE -	4/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
TEMPORARY CABINET DIAGRAM
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	91
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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

PROFILE
SURVEYED BY
PLOTTED DATE
GRADES CHECKED
B.M. NOTED
STRUCTURE NO'S/ITMS CHK'D
NOTE BOOK
NO.

PARSONS

TO ALMOND & WASHINGTON CD44 A
TO IL131 & WASHINGTON CD88 A
TO TMC CD4 A
TO TMC CD4 A

PTZ
BLUETOOTH DETECTOR
RS422
COAX
E100
RS232
POE
POE100

IL21 & SIX FLAGS: SIGNAL CONTROLLER, INT, NIWOT
IL21 & WASH COMM CABINET: VIDEO ENCODER, CISCO 3560, GLC-LH-SM, DIGI, M/C
IL21 & WASH TRAFFIC SIGNAL CABINET: SIGNAL CONTROLLER, INT, NIWOT
IL21 & I-94: SIGNAL CONTROLLER, INT, NIWOT
IL21 & GAGES LAKE: SIGNAL CONTROLLER, INT, NIWOT, VIDEO ENCODER, CISCO 2955
IL21 & IL120 NORTH: SIGNAL CONTROLLER, INT, NIWOT, POE, VIDEO ENCODER, CISCO 2955
IL21 & IL120 SOUTH: SIGNAL CONTROLLER, INT, NIWOT
IL21 & CASEY: SIGNAL CONTROLLER, VIDEO ENCODER, CISCO 2955
IL120 / HUNT CLUB: SIGNAL CONTROLLER, POE, VIDEO ENCODER, CISCO 2955

RADIO PtoP QB8150
RADIO PtoP QB8150

TO WASHINGTON & GREENLEAF CD88 B

WTS PtP
WTS PtP
WTS PtP
WTS PtP

I94E & IL120: LAYER 2 SWITCH, POE, IP CAMERA

IL 120 / O'PLAINE: LAYER 2 SWITCH, POE, DETECTOR INT, SIGNAL CONTROLLER, IP CAMERA, VIDEO DETECTOR x4
RELOCATE L2 SWITCH, IP CCTV, WTS PtP

McGAW / O'PLAINE: LAYER 2 SWITCH, POE, VIDEO ENCODER, SIGNAL CONTROLLER, PTZ

IL120 N / GREENLEAF: LAYER 2 SWITCH, VIDEO ENCODER, POE, POE, SIGNAL CONTROLLER, PTZ, BLUETOOTH DETECTOR, BLUETOOTH DETECTOR

IL120 S / GREENLEAF: LAYER 2 SWITCH, SIGNAL CONTROLLER

LAKEHURST / GREENLEAF: LAYER 2 SWITCH, SIGNAL CONTROLLER

GURNEE PD: M/C

TO O'PLAINE / WASHINGTON CD88B

TEMP

DESIGNED - DG	REVISED -		LAKE COUNTY DIVISION OF TRANSPORTATION
DRAWN - YM	REVISED - 2016.06.22	120/Hunt Club, alt note deleted	
CHECKED - DG	REVISED -		
DATE 2023.03.20	REVISED -		

112A
WASHINGTON / IL21
SCALE N/A

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
			112A	

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

PROFILE: SURVEYED, PLOTTED, CHECKED, NOTE BOOK, NO., BY, DATE, B.M. NOTED, STRUCTURE NO/PATTNS CHKD

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Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

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DATE - 4/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

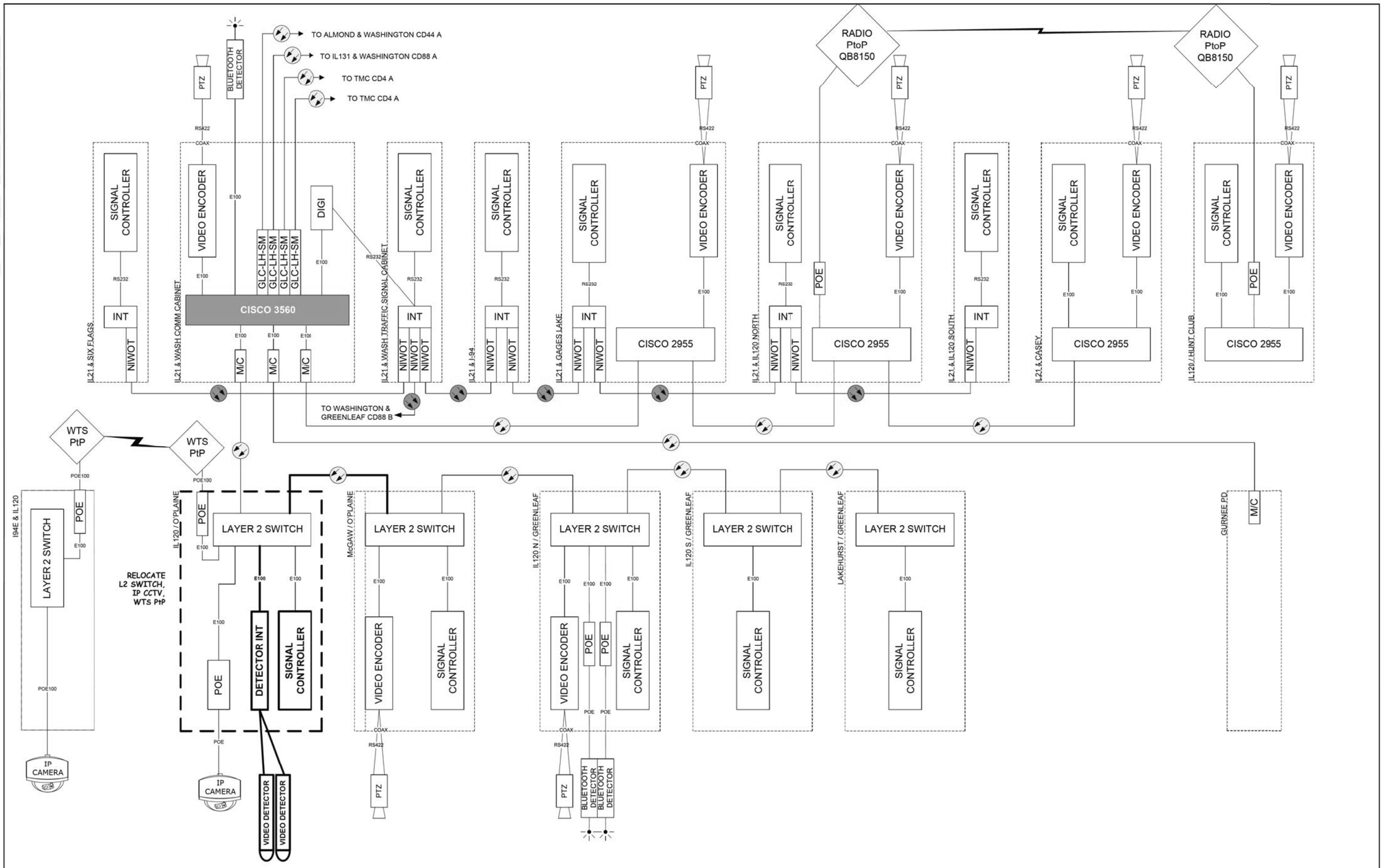
LAKE COUNTY DIVISION OF TRANSPORTATION
TEMPORARY CABINET DIAGRAM
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	92
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

PARSONS

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

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
CHECKED
B.M. NOTED
STRUCTURE NO/FAITNS CHKD
BY
DATE



DESIGNED - DG	REVISED -		LAKE COUNTY DIVISION OF TRANSPORTATION
DRAWN - YM	REVISED 2016.06.22	120/Hunt Club, alt note deleted	
CHECKED - DG	REVISED -		
DATE 2023.03.20	REVISED -		

112A
WASHINGTON / IL21
SCALE N/A

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
			112A	

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DATE -	4/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
CABINET DIAGRAM
IL ROUTE 120 (BELVIDERE ROAD) AND O'PLAINE ROAD
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	93
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

LIGHTING LEGEND

PROPOSED GROUND MOUNTED LIGHTING UNIT, 47.5 FT M.H., 15FT M.A., ROADWAY LUMINAIRE, LED, OUTPUT DESIGNATION G, 240V, ON METAL FOUNDATION.

PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G, 240V, 45FT M.H., 15FT M.A., ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION).

PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G, 240V, 45FT M.H., 2-15FT M.A. ORIENTED AT 90 DEGREES APART, ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION.).

PROPOSED TEMPORARY GROUND MOUNTED LIGHTING UNIT, 47.5 FT M.H., 15FT M.A., ROADWAY LUMINAIRE, LED, OUTPUT DESIGNATION G, 240V, ON WOOD POLE.

PROPOSED TEMPORARY LUMINAIRE, LED. ROADWAY, OUTPUT DESIGNATION G, 240V, 45FT M.H., 15FT M.A., ON MAST ARM AND TEMPORARY POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION).

PROPOSED TEMPORARY LUMINAIRE, LED. ROADWAY, OUTPUT DESIGNATION G, 240V, 45FT M.H., 2-15FT M.A. ORIENTED AT 90 DEGREES APART, ON TEMPORARY POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION.).

PROPOSED UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.

PROPOSED UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE

TEMPORARY AERIAL CABLE. 3-1C N0.2 WITH MESSENGER.

EXISTING SINGLE ARM LIGHTING UNIT TO REMAIN

EXISTING SINGLE ARM LIGHTING UNIT TO BE USED AS TEMPORARY AND REMOVED AND SALVAGED.

EXISTING SINGLE ARM LIGHTING UNIT TO BE REMOVED AND SALVAGED

EXISTING ELECTRIC CABLE TO REMAIN

EXISTING ELECTRIC CABLE TO BE REMOVED

PROPOSED COMBINATION LIGHTING CONTROLLER (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

EXISTING LIGHTING CONTROLLER TO BE REMOVED

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DIA.	DIAMETER
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FND MET	FOUNDATION METAL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HMLT	HIGH MAST LIGHT TOWER
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
M	METER
M.A.	MAST ARM
M.H.	MOUNTING HEIGHT
NO. #	NUMBER
PVC	POLYVINYL CHLORIDE
RGC	RIGID GALVANIZED STEEL CONDUIT
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
UD	UNIT DUCT
WP	WOOD POLE
XFMR	TRANSFORMER

GENERAL NOTES:

1. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND D1 SPECIAL PROVISIONS.
2. ALL NEW UNIT DUCTS, CONDUITS, JUNCTION BOXES, AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY ON THE PLANS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
3. LIGHT POLE SETBACKS ARE MEASURED FROM THE EDGE OF PAVEMENT TO THE CENTER OF THE POLE.
4. CONDUCTORS SHALL RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE LIGHTING UNITS.
5. ELECTRIC CABLES IN EXISTING CONDUIT TO BE ABANDONED SHALL BE REMOVED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT." THE CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED.
6. NEW SPLICE KITS MUST BE PROVIDED FOR ALL AFFECTED LIGHT POLES. THIS WORK IS INCLUDED IN THE PRICE OF THE ELECTRIC CABLE.

CALL–OUT SAMPLES

DEFINITION	EXAMPLE
CKT. NO. LOCATION SETBACK	MZA1 STA. 591+85 SETBACK 3 FT.
LCA1 POLE NUMBER CIRCUIT NUMBER LIGHTING CONTROL CABINET	
CONDUIT SIZE TYPE, LENGTH	RGC, 50 FT. 3" DIA.
CIRCUITS CONDUCTORS RACEWAY	CKT. MZA 2-1/C #6, 1/C #6 GND 1" DIA. UNIT DUCT

SCHEDULE OF QUANTITITES:

DESCRIPTION	UNIT	QUANTITIES
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	285
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA.	FOOT	5,100
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,148
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	4,995
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	27
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	20
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	18
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	20
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	20
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	14
REMOVAL OF POLE FOUNDATION	EACH	14
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,245
MAST ARM,STREET LIGHTING,15'	EACH	7
TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	25
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	27
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12

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FILE NAME: $FILE$

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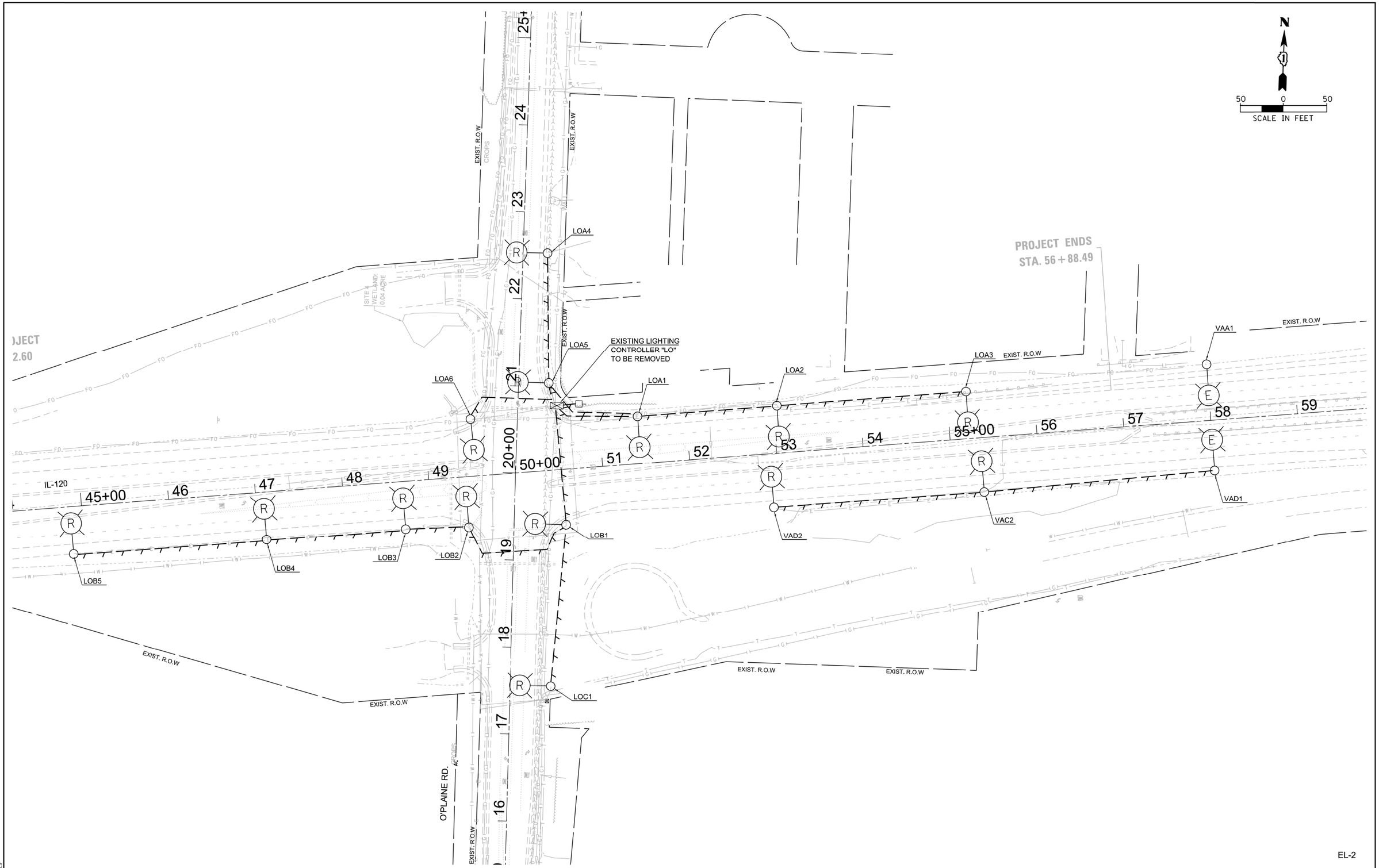
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING ABBREVIATIONS, GENERAL NOTES, LEGEND, AND SCHEDULE OF QUANTITIES
IL 120 AT O'PLAINE RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	94
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



EL-2

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FILE NAME: $FILE$

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	PLOT DATE = $DATE$	DATE - 12/29/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL PLAN
IL-120 AT O'PLAINE RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	95
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

MATCHLINE 25+00

EXIST. R.O.W

IL-120

39 | 40+00 | 41 | 42 | 43

MATCHLINE 43+50

VAC9
STA. 39+55
SETBACK 22 FT

VAD8
STA. 41+95
SETBACK 19 FT

CKTS C&D
AERIAL CABLE 3-1/C NO. 2
WITH MESSENGER (TYP.)

CROPS

VAA8
STA. 23+70
SETBACK 19 FT

EXIST. R.O.W

VAA5
STA. 23+70
SETBACK 19 FT

VAB8
STA. 26+50
SETBACK 19 FT

25+00 O'PLAINE RD.

MATCHLINE 25+00

N

SCALE IN FEET
50 0 50

PROJECT ENDS
STA. 56 + 88.49

CKTS A&B
AERIAL CABLE 3-1/C NO. 2
WITH MESSENGER (TYP.)

VAA1

VAB2
STA. 55+65
SETBACK 19 FT

EXIST. R.O.W

VAA3
STA. 53+25
SETBACK 19 FT

BEGIN PROJECT
STA. 43 + 62.60

VAB7
STA. 21+40
SETBACK 19 FT

VAA4 AND VAB4
ON SHARED WOOD POLE
SEE TRAFFIC PLANS FOR
LOCATION

EXIST. R.O.W
PROP. R.O.W

VAB3
STA. 51+05
SETBACK 19 FT

VAA6 AND VAB5
ON SHARED WOOD POLE
SEE TRAFFIC PLANS FOR
LOCATION

VAA7
STA. 44+35
SETBACK 19 FT

VAB6
STA. 46+75
SETBACK 19 FT

MATCHLINE 43+50

IL-120

44 | 45+00 | 46 | 47 | 48 | 49 | 20+00 | 50+00 | 51 | 52 | 53 | 54 | 55+00 | 56 | 57 | 58

VAD1

VAC2

VAD3

VAD7
STA. 46+75
SETBACK 19 FT

VAC7
STA. 48+95
SETBACK 19 FT

VAD6
ON SHARED WOOD POLE
SEE TRAFFIC PLANS FOR LOCATION

VAC3 AND VAD4
ON SHARED WOOD POLE
SEE TRAFFIC PLANS FOR LOCATION

VAC8
STA. 44+35
SETBACK 19 FT

VAC4
STA. 18+40
SETBACK 19 FT

EXIST. R.O.W

EXIST. R.O.W

MATCHLINE 15+50

15+00 O'PLAINE RD.

EXIST. R.O.W

AC

CROPS

PROP. R.O.W

14

13

VAC5
STA. 12+80
SETBACK 19 FT

O'PLAINE RD.

AC

CROPS

EXIST. R.O.W
PROP. R.O.W

VAC6
STA. 15+60
SETBACK 19 FT

VAD5
STA. 15+60
SETBACK 19 FT

MATCHLINE 15+50

EL-3

MODEL: $MODE_NAME$
FILE NAME: $FILE$

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN
IL-120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	96
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

MATCHLINE 25+00

EXIST. R.O.W

IL-120

40+00 | 41 | 42 | 43

MATCHLINE 43+50

VAC8
STA. 39+60
SETBACK 22 FT

VAD5
STA. 42+00
SETBACK 15 FT

4" RGC - 60 FT

EXIST. R.O.W
CROPS

24

EXIST. R.O.W
EXIST SIGN

VAB4
STA. 23+65
SETBACK 15 FT

VAA3
STA. 23+65
SETBACK 15 FT

RELOCATE

23

4" RGC - 35 FT

4" RGC - 70 FT

22

VAA5
STA. 21+35
SETBACK 10 FT

EXIST. R.O.W
PROP. R.O.W

VAB3
STA. 51+00
SETBACK 15 FT

21

TEMP. TRAF. SIG. PAD

20+00 | 50+00

VAA4
STA. 26+45
SETBACK 15 FT

26

25+00 | O'PLAINE RD.

MATCHLINE 25+00

N

50 0 50
SCALE IN FEET

PROJECT ENDS
STA. 56 + 88.49

CKTS A&B
3-1/C NO.2, 1/C NO.4 GND
1 1/2" DIA. UNIT DUCT (TYP.)

VAB2
STA. 55+60
SETBACK 15 FT

VAA1

EXIST. R.O.W

VAA2
STA. 53+20
SETBACK 15 FT

DITCH

BEGIN PROJECT
STA. 43 + 62.60

VAA6
STA. 44+40
SETBACK 15 FT

VAB5
STA. 46+30
SETBACK 15 FT

MATCHLINE 43+50

44 | 45+00 | 46 | 47 | 48 | 49 | 50+00 | 51 | 52 | 53 | 54 | 55+00 | 56 | 57 | 58

VAD1

VAC2
STA. 55+60
SETBACK 15 FT

VAD2
STA. 53+20
SETBACK 15 FT

CKTS C&D
3-1/C NO.2, 1/C NO.4 GND
1 1/2" DIA. UNIT DUCT (TYP.)

VAC7
STA. 44+40
SETBACK 15 FT

VAD4
STA. 46+80
SETBACK 15 FT

VAC6
STA. 49+00
SETBACK 15 FT

SEE PROPOSED
COMBINATION
LIGHTING PLAN

VAC3
STA. 18+45
SETBACK 15 FT

18

4" RGC - 60 FT

EXIST. R.O.W

EXIST. R.O.W

EXIST. R.O.W

17

O'PLAINE RD.

AC

CROPS

PROP. R.O.W

TEL

VAC5
STA. 15+65
SETBACK 12 FT

16

VAD3
STA. 15+65
SETBACK 15 FT

4" RGC - 60 FT

MATCHLINE 15+50

MATCHLINE 15+50

15+00

O'PLAINE RD.

DITCH

EXIST. R.O.W

AC

14

CROPS

PROP. R.O.W

TEL

ELEC

13

VAC4
STA. 12+85
SETBACK 14 FT

EL-4

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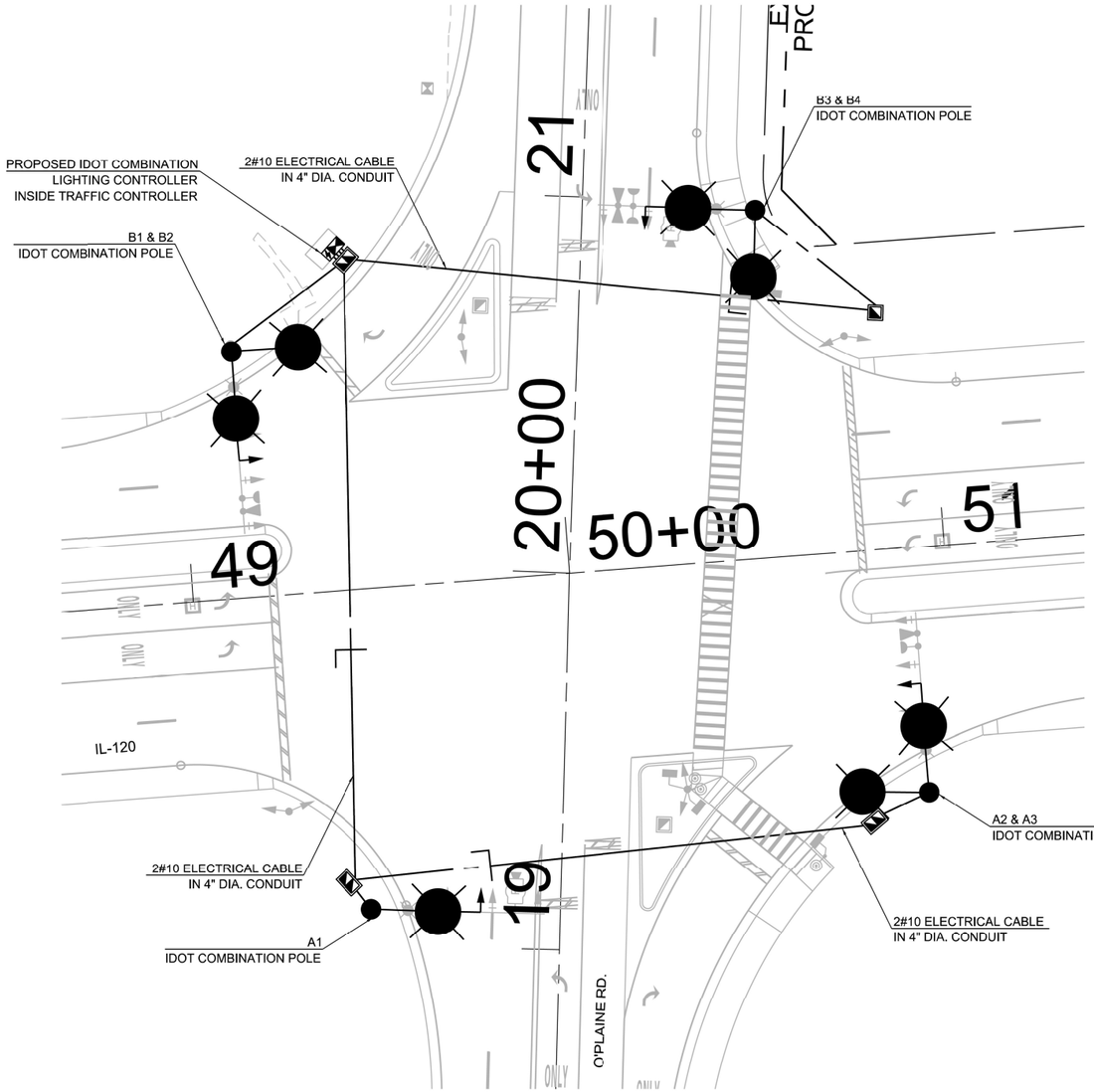
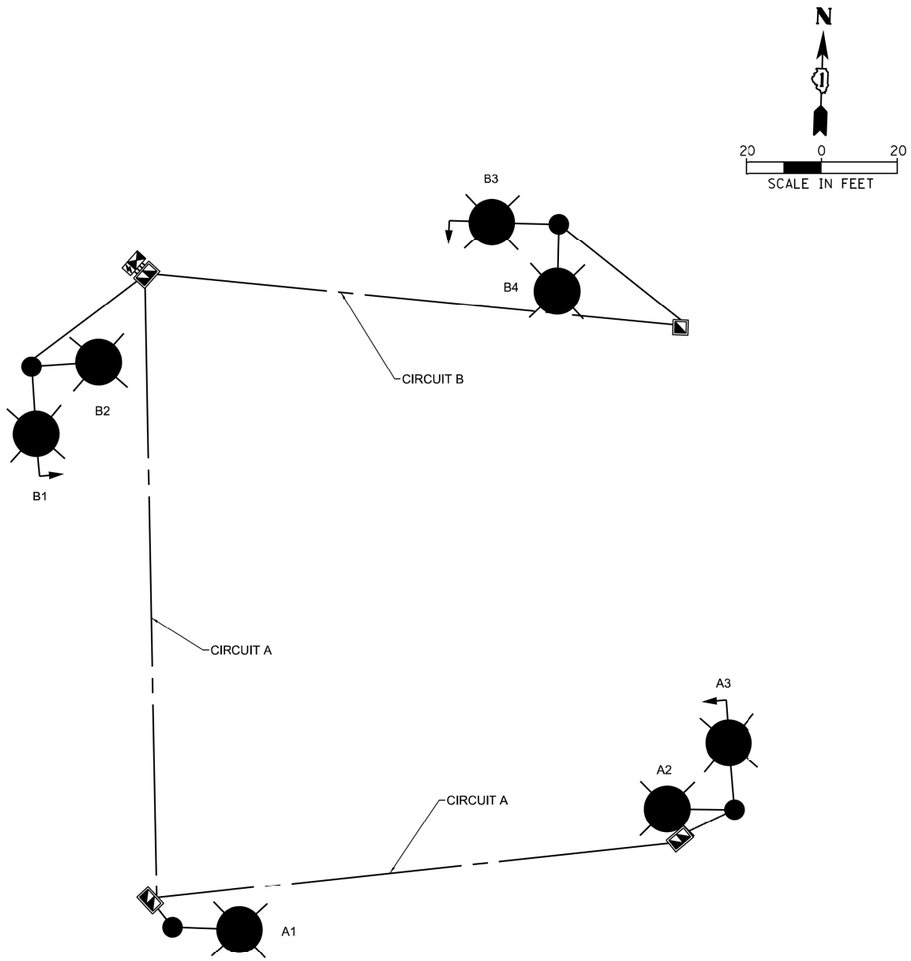
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
IL-120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	97
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	





ONE–LINE DIAGRAM
IL–120 AND O'PLAINE RD.

LEGEND:

PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G 120V, 45 FT. M.H., 15 FT. M.A., ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G , 120V, 45 FT. M.H., 2-15 FT. M.A., ORIENTED AT 90 DEGREES APART ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

PROPOSED ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10

PROPOSED COMBINATION LIGHTING CONTROLLER (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

PROPOSED HANDHOLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

PROPOSED DOUBLE HANDHOLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

IDOT COMBINATION LIGHTING SCHEDULE OF QUANTITIES
IL-120 AND O'PLAINE RD.

DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1148
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	7
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	7
COMBINATION LIGHTING CONTROLLER	EACH	1

NOTES:

1. THE IDOT COMBO LIGHTING CIRCUITS SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE DETAIL BE-240.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED COMBINATION LIGHTING PLAN
IL–120 AT O'PLAINE RD.

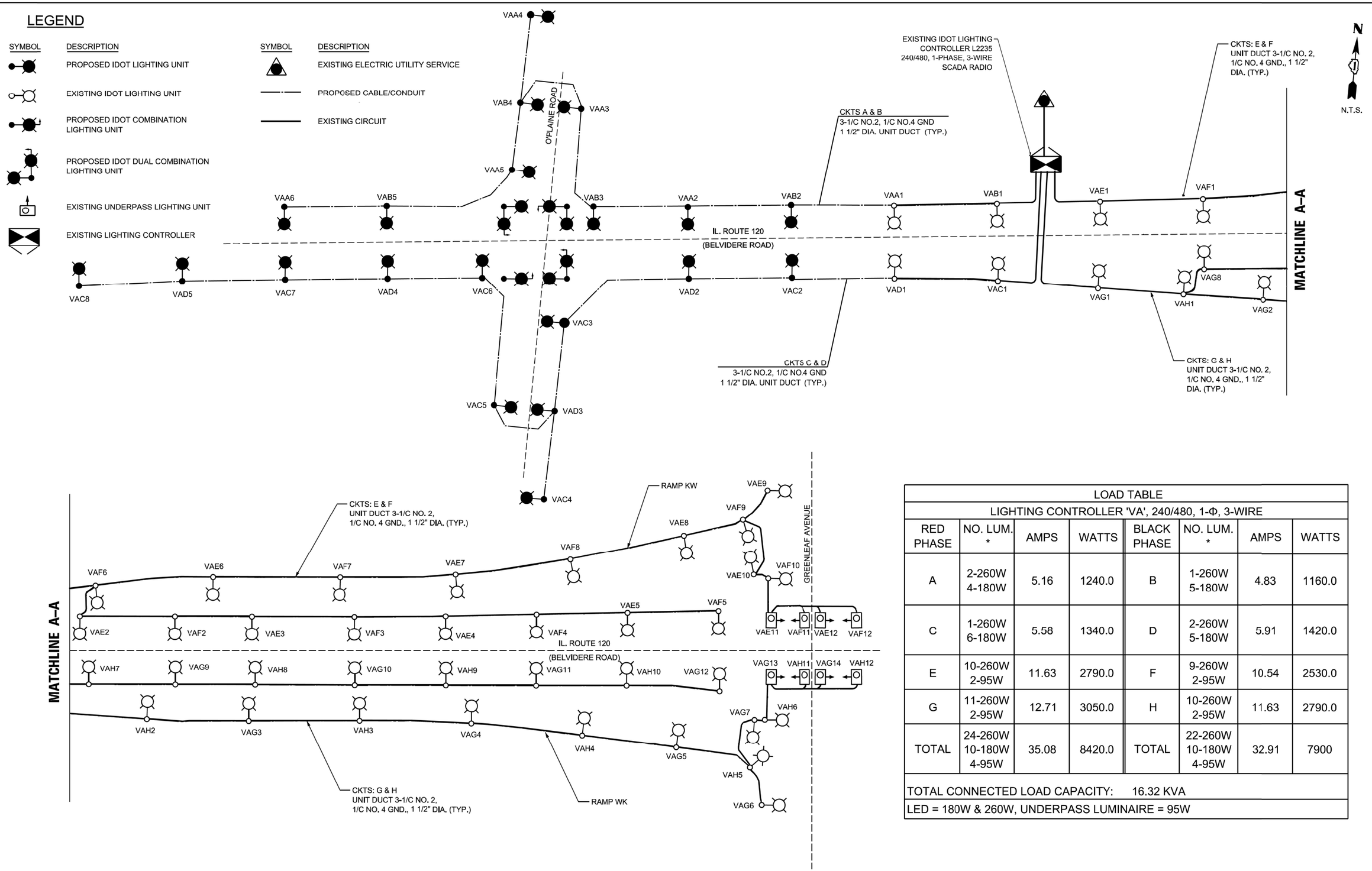
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	98
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	EXISTING IDOT LIGHTING UNIT
	PROPOSED IDOT COMBINATION LIGHTING UNIT
	PROPOSED IDOT DUAL COMBINATION LIGHTING UNIT
	EXISTING UNDERPASS LIGHTING UNIT
	EXISTING LIGHTING CONTROLLER

SYMBOL	DESCRIPTION
	EXISTING ELECTRIC UTILITY SERVICE
	PROPOSED CABLE/CONDUIT
	EXISTING CIRCUIT



LOAD TABLE							
LIGHTING CONTROLLER 'VA', 240/480, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	2-260W 4-180W	5.16	1240.0	B	1-260W 5-180W	4.83	1160.0
C	1-260W 6-180W	5.58	1340.0	D	2-260W 5-180W	5.91	1420.0
E	10-260W 2-95W	11.63	2790.0	F	9-260W 2-95W	10.54	2530.0
G	11-260W 2-95W	12.71	3050.0	H	10-260W 2-95W	11.63	2790.0
TOTAL	24-260W 10-180W 4-95W	35.08	8420.0	TOTAL	22-260W 10-180W 4-95W	32.91	7900
TOTAL CONNECTED LOAD CAPACITY: 16.32 KVA							
LED = 180W & 260W, UNDERPASS LUMINAIRE = 95W							

MODEL: $MODE_NAME$
FILE NAME: $FILE$

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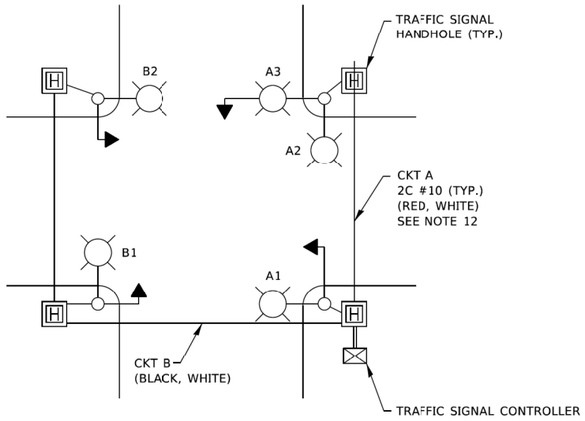
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE DIAGRAM
IL–120 AT O'PLAINE RD.

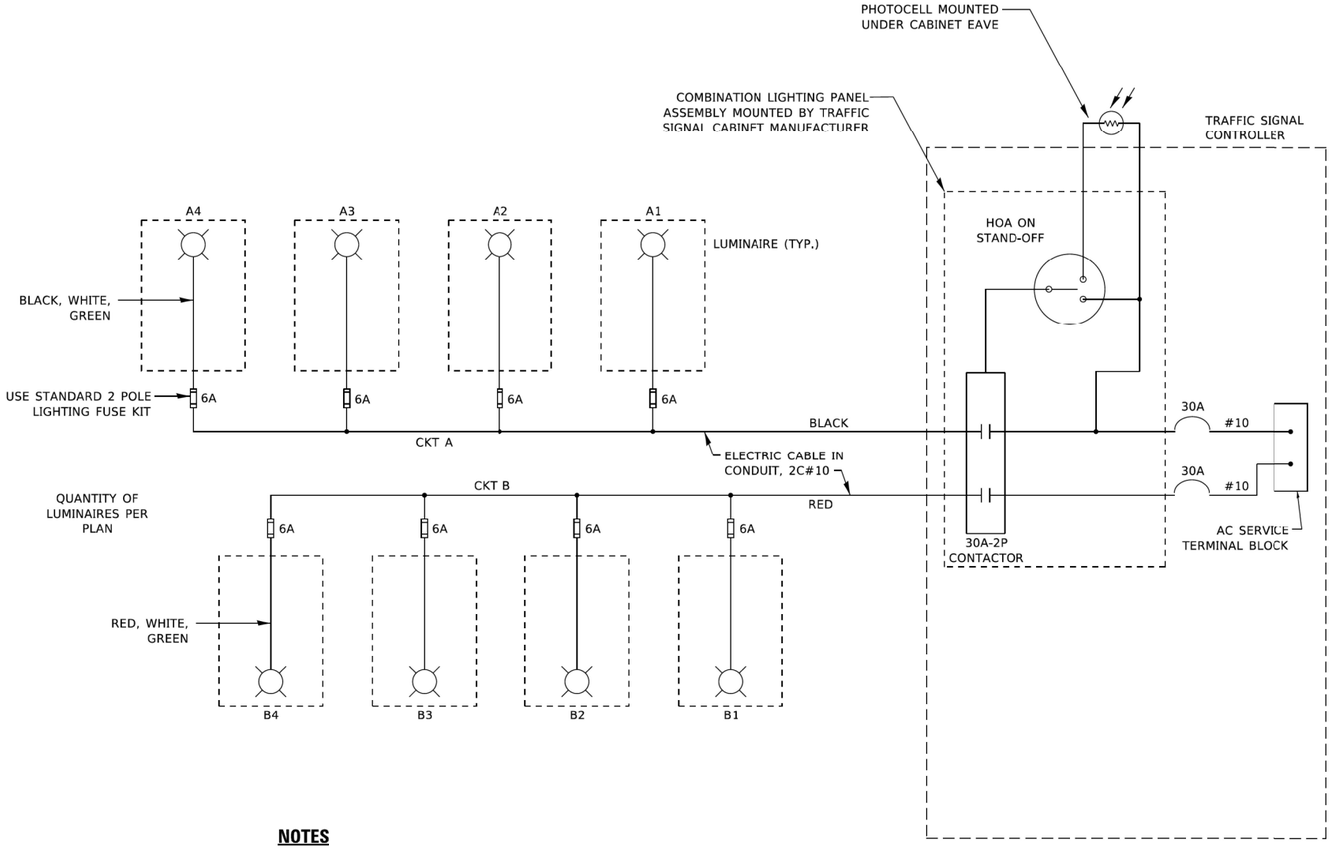
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

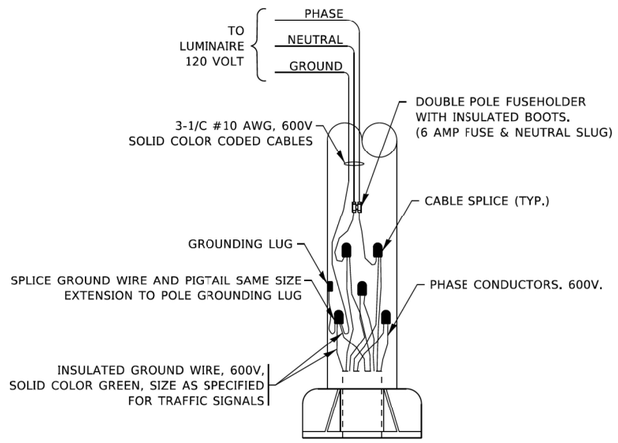
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	99
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		



TYPICAL LIGHTING CIRCUIT

(NOT TO SCALE)





COMBINATION POLE WIRING DETAIL

(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

USER NAME = demanchelt	DESIGNED - RT	REVISED - T.G. 4/12/2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. TOMSONS 3/22/18	
PLOT SCALE = 100.0000 ' / in.	CHECKED - RT	REVISED - T.G. 8/03/2021	
PLOT DATE = 5/5/2022	DATE - 08/13/2014	REVISED - T.G. 5/05/2022	

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-240	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-7

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Chicago, Illinois 60606

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	DRAWN - MT	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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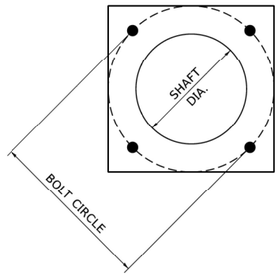
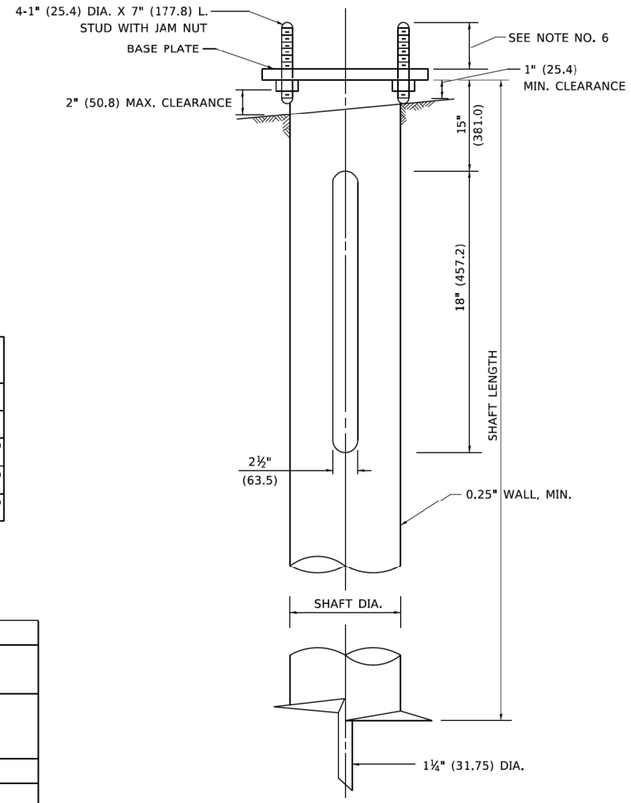
	ILLINOIS FED. AID PROJECT			





HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

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PLOT DATE = 4/19/2019	DATE - 02-27-07		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION, METAL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-305	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-8

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100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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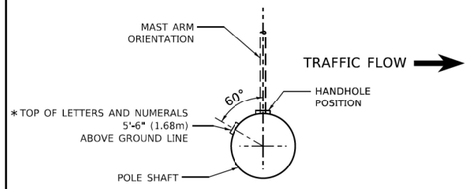
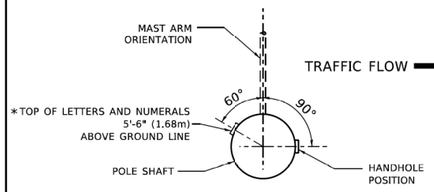
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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



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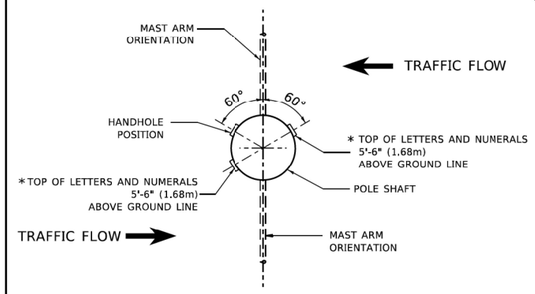
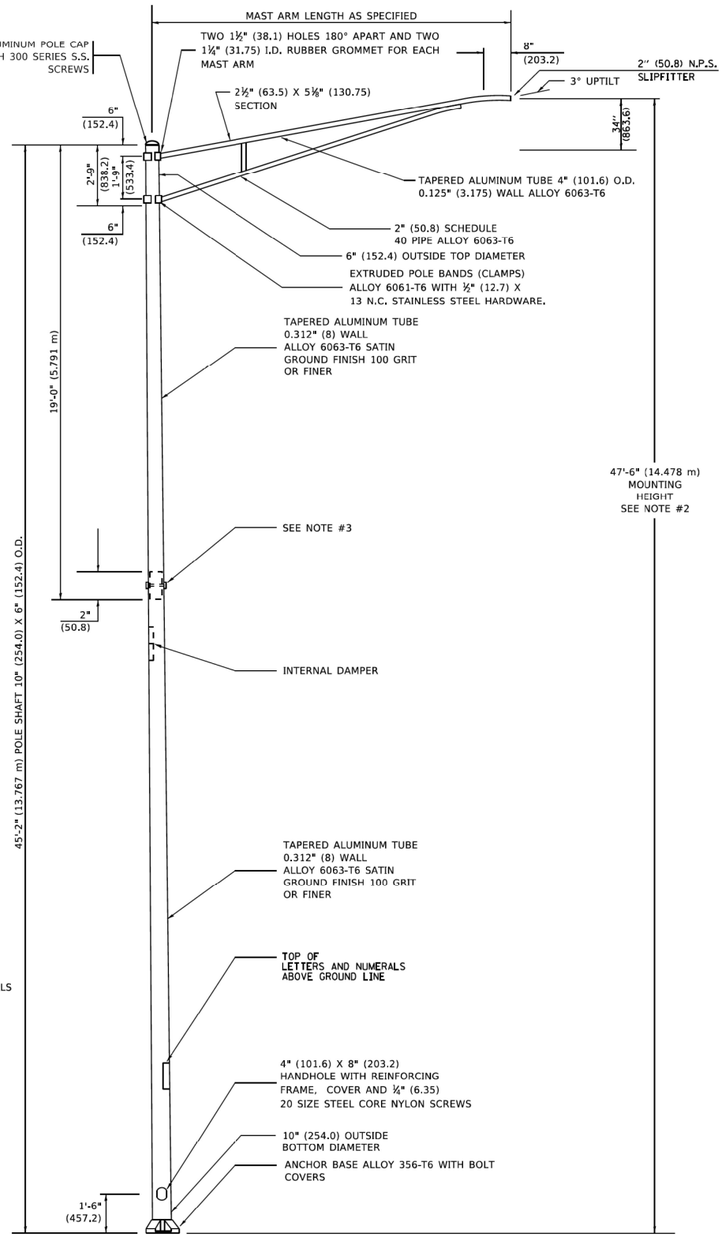
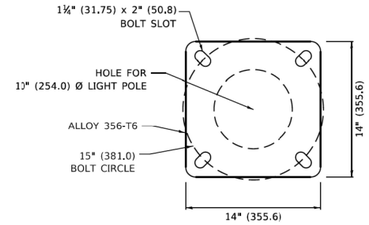


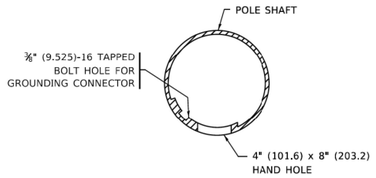
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES





LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

NOTES

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

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	DRAWN -	REVISED - R. TOMSONS 01-18-13	
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PLOT DATE = 6/27/2022	DATE -	REVISED - 06/13/2022 TG	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE
47'–6" (14.478 m) MOUNTING HEIGHT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE–400	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-9

MODEL: $MODE.NAME$
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Chicago, Illinois 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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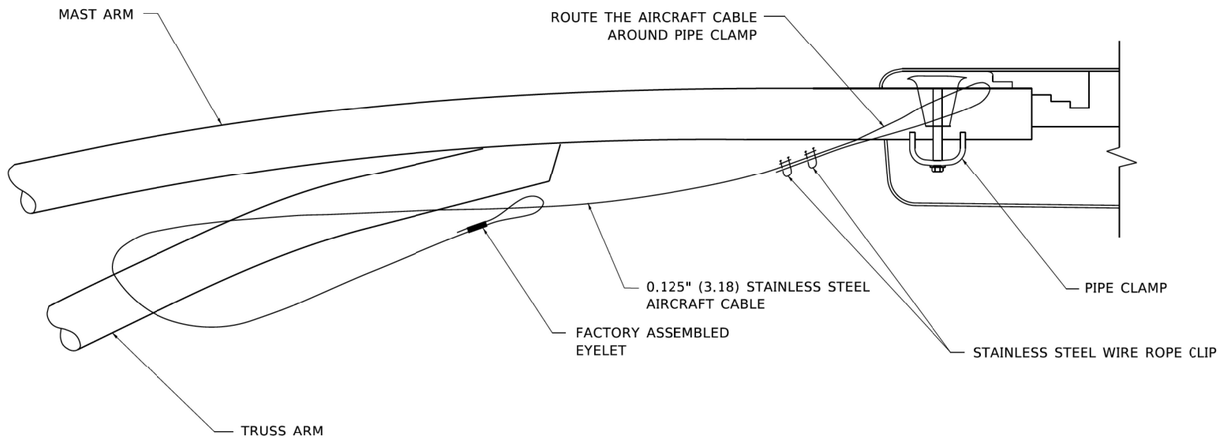
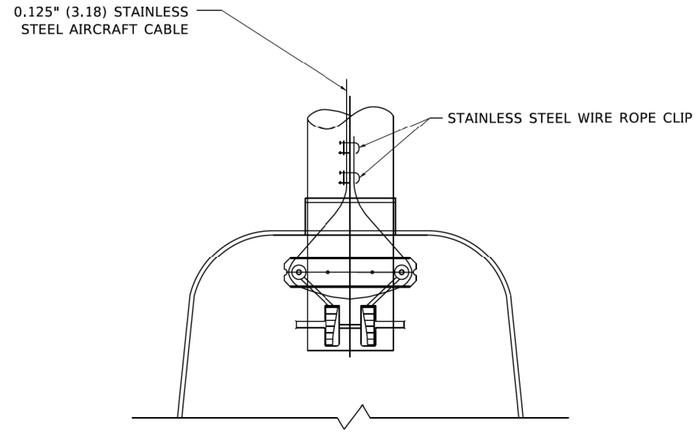
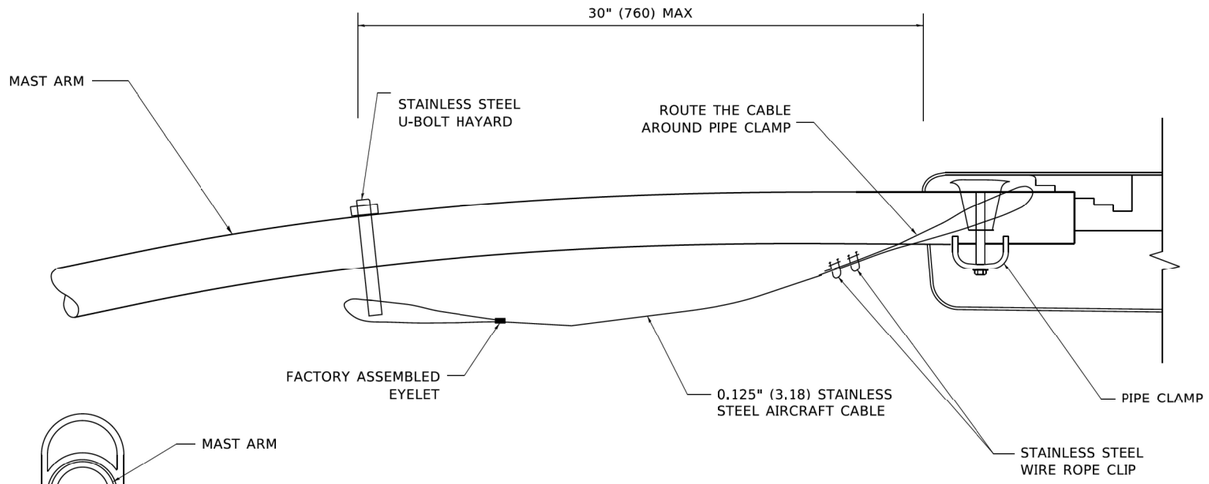
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		



SIDE VIEW (TRUSS ARM)
N.T.S.



BOTTOM VIEW
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-701	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-10

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Chicago, Illinois 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	103
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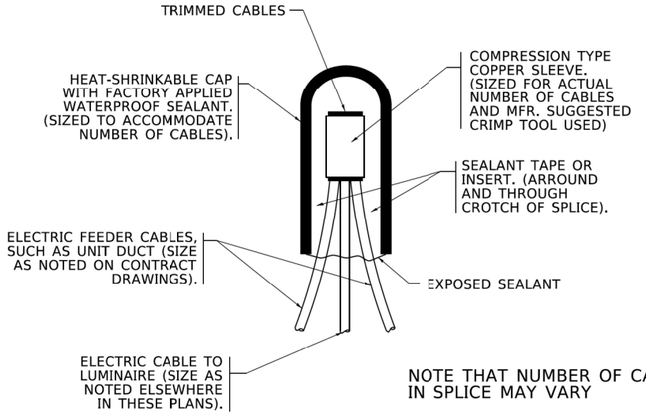

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY

TYPICAL SPLICE DETAIL
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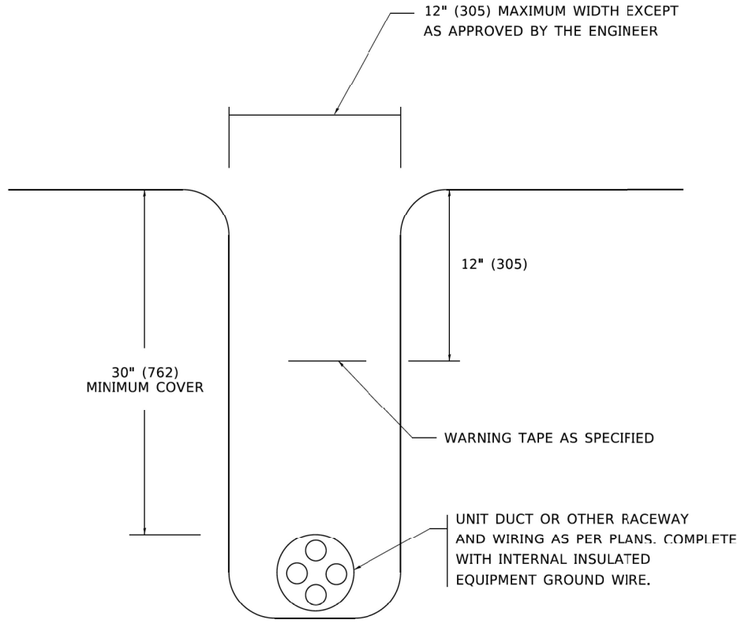

TYPICAL WIRING IN TRENCH DETAIL
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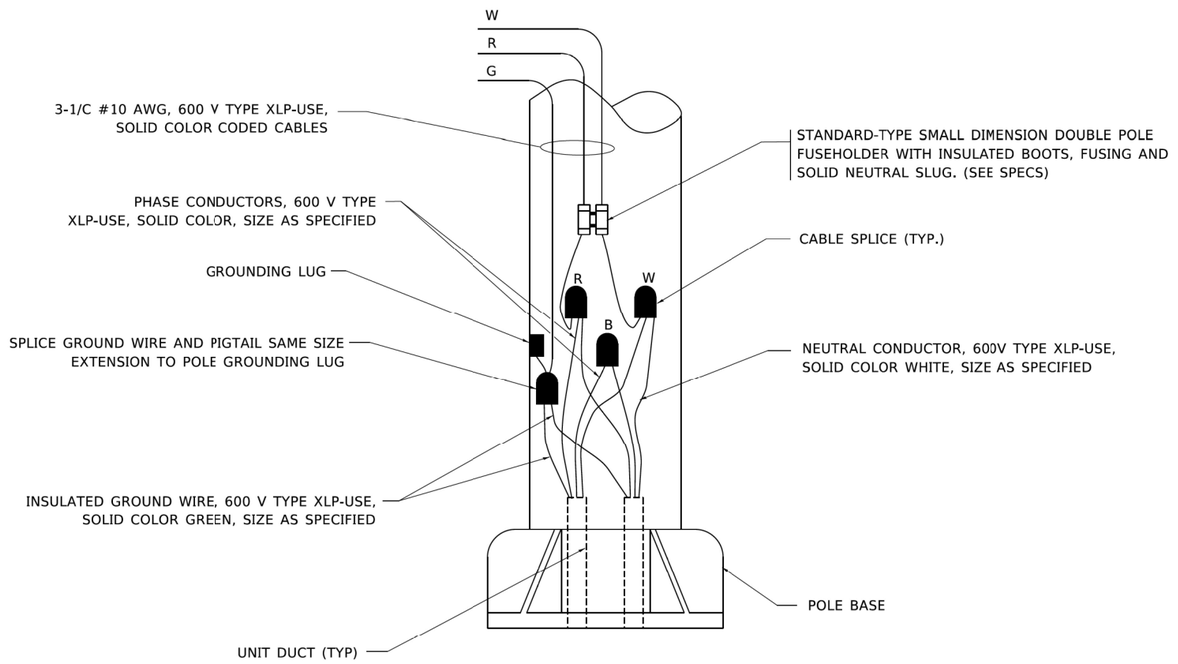

POLE WIRING DETAIL
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-702	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-11

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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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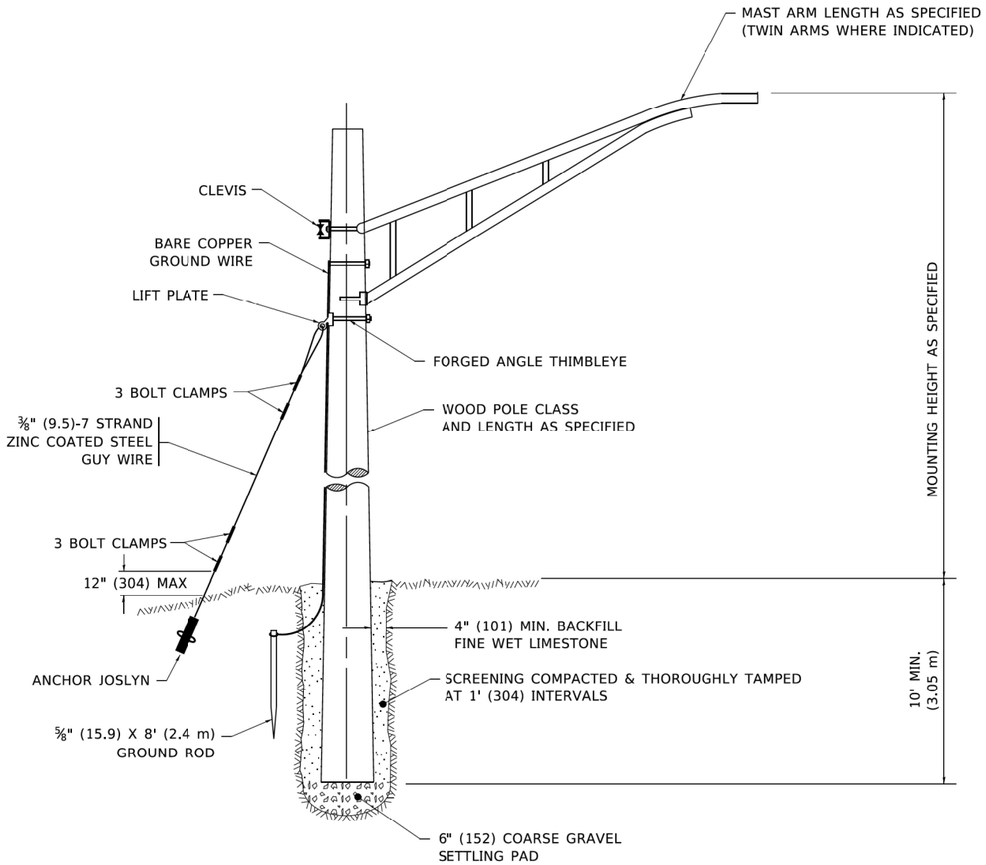
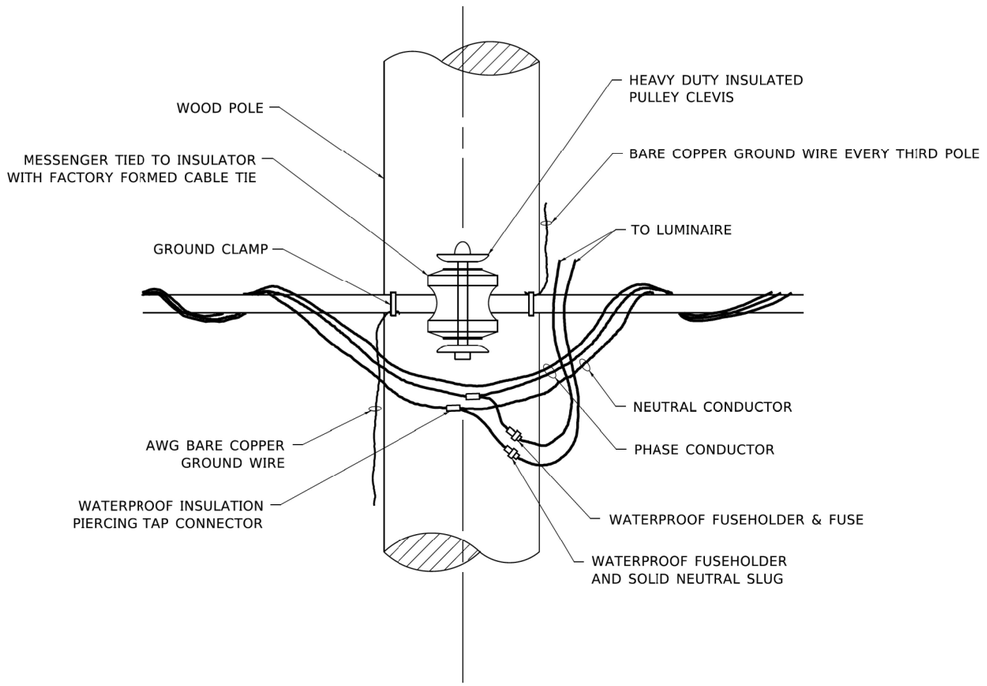


TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

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	DRAWN -	REVISED -	R.T 07-26-16
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PLOT DATE = 4/19/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-800	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-12

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Chicago, Illinois 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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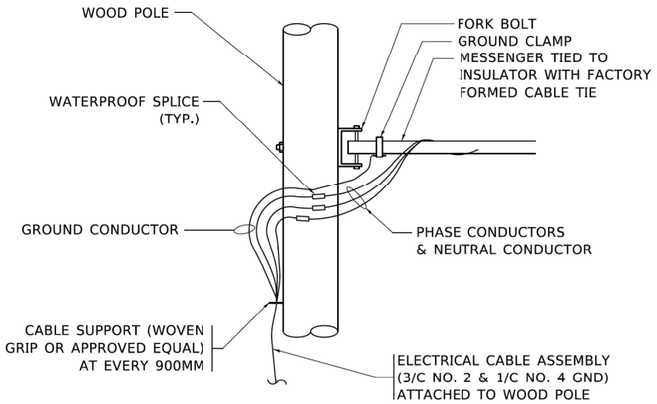
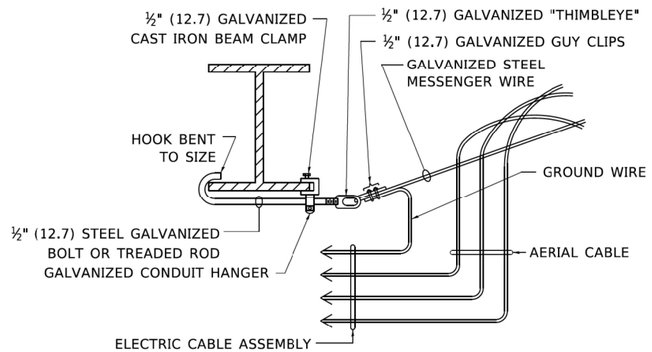


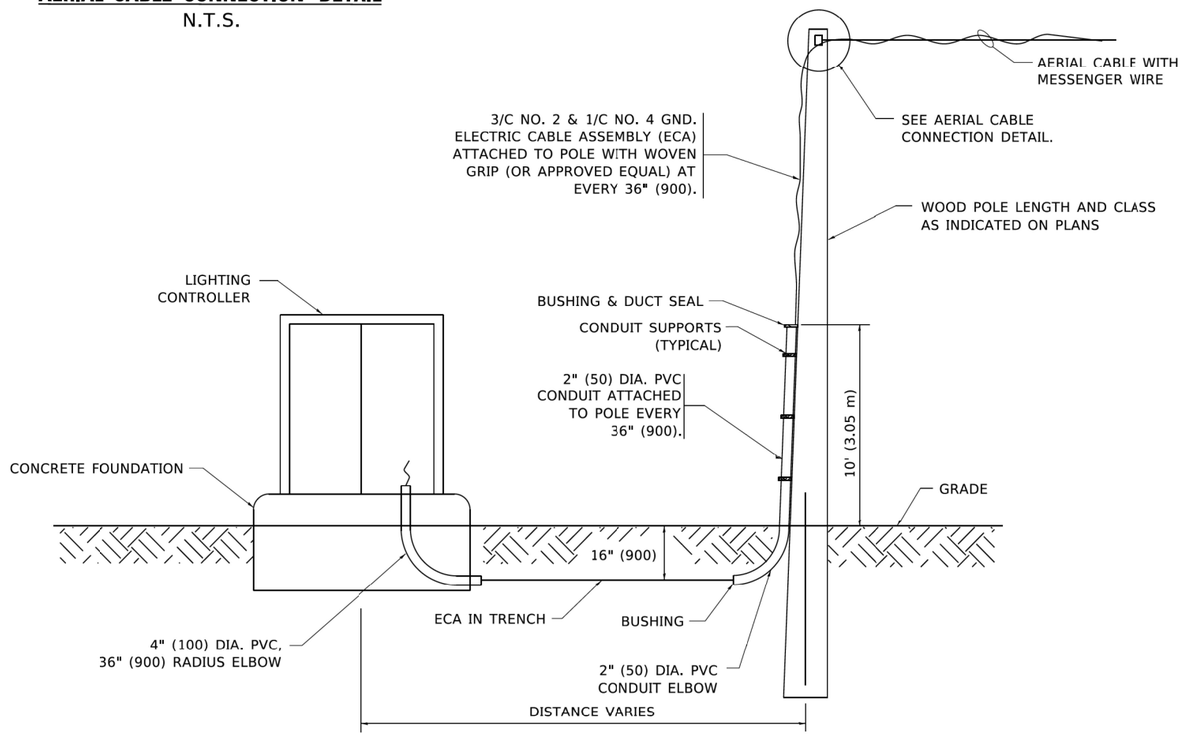
AERIAL CABLE CONNECTION DETAIL

N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE

NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

NOTES:

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

FILE NAME: pw:\publanroom.cdot.illinois.gov:PWIDOTDocuments\IDOT Offices\District 1\Projects\DistStd22\341\CADData\CADsheets\be801.dgn

USER NAME = {ootem}	DESIGNED -	REVISED -	08-08-03
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-801	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EL-13

MODEL: $MODEL.NAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

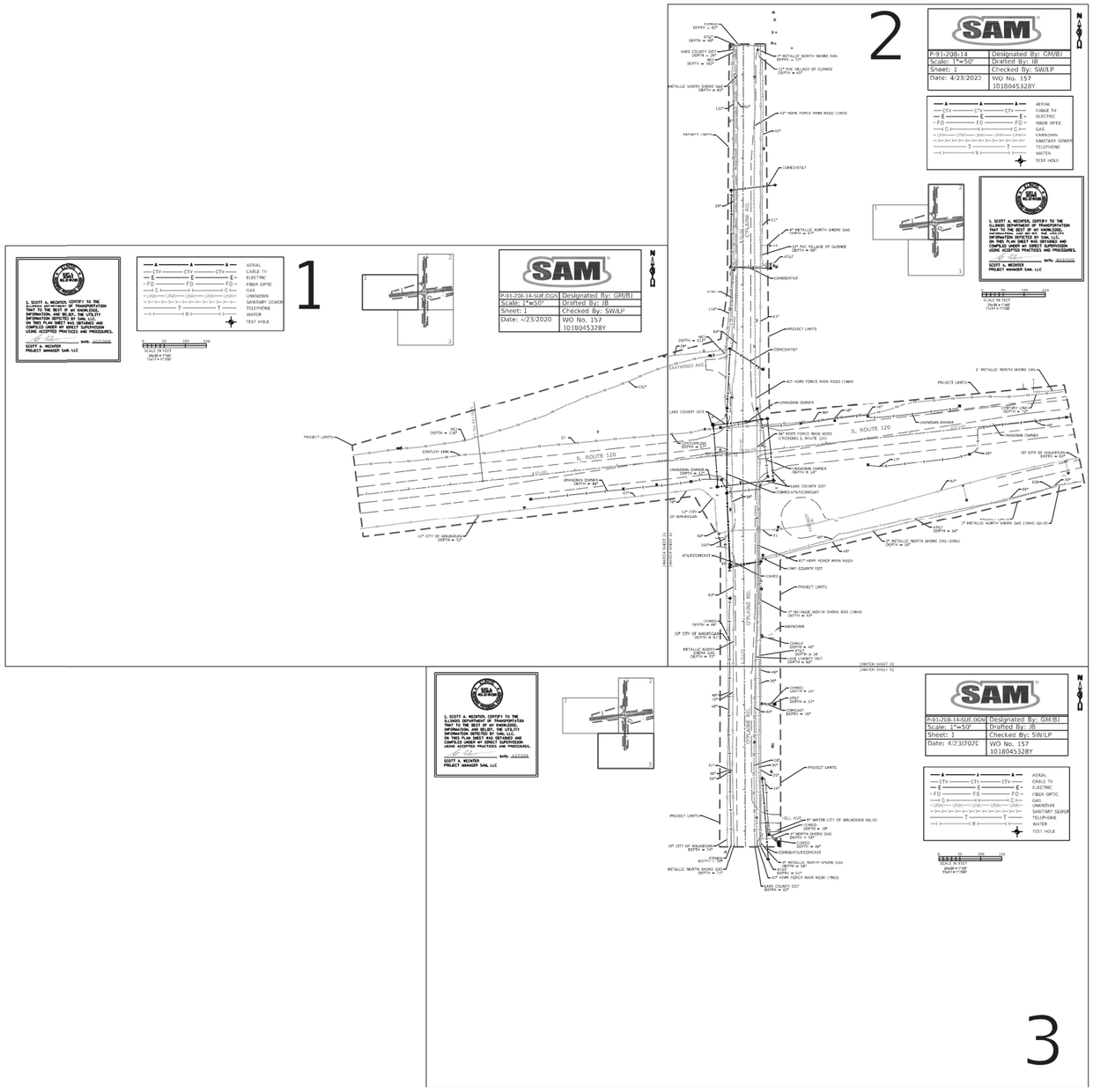
USER NAME = $USER$	DESIGNED - MT	REVISED -	
	DRAWN - MT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - WS	REVISED -	
PLOT DATE = $DATE$	DATE - 12/29/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT DISTRICT 1 STANDARD ELECTRIAL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	106
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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SAM

P-91-208-14-SUE.DGN	Designated By: GM/BJ
Scale: N/A	Drafted By: JB
Sheet: Cover	Checked By: SW/LP
Date: 4/23/2020	WO No. 157 1018045328Y

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

SCOTT A. WECHTER, REG. 62-042188, PROFESSIONAL ENGINEER, ILLINOIS

DATE: 4/23/2020

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

UTILITY OWNERS

AT&T LEGAL MANDATE
ENGINEERING
ATTN: URMI PICONE
1000 COMMERCE DRIVE
OAK BROOK, IL 60523
630-388-3046
UB2591@ATT.COM

CENTURYLINK
nationalrelo@centurylink.com

CITY OF WAUKEGAN
ATTN: MR. PATRICK NEEDHAM
1700 N. MCAREE RAOD
WAUKEGAN, IL 60085
847-360-0944
PAT. NEEDHAM@WAUKEGANIL.GOV

COMCAST (RECORD NOT RECEIVED)
ATTN: MARTHA GIERAS
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
224-229-5861
Martha_Gieras@comcast.com

COMED
PlanSubmittalsandMapRequests@exeloncorp.com

LAKE COUNTY OF TRANSPORTATION (LCDOT)
600 W. WICHESTER ROAD
LIBERTYVILLE, IL 60048
847-377-7400

MCI/VERIZON BUSINESS
Investigations@verizon.com

NORTH SHORE GAS
ATTN: MR. JIMMY LY
3001 GRAND AVE
WAUKEGAN, IL 60085
847-263-3225
JLy@northshoregasdeliver.com
UtilityMapRequest@northshoregasdeliver.com

NORTH SHORE WATER RECLAMATION DISTRICT (NSSD)
ATTN: MR. BILL STOLTZ
P.O. BOX 750
14770 W. WM. KOEPSEL DRIVE
GURNEE, IL 60031
847-623-6060
BIStoltz@northshorewrd.org

VILLAGE OF GURNEE
ATTN: MR. ERIC VENDEN
325 N O'PLAINE RD
GURNEE, IL 60031
847-599-7550
EricV@village.gurnee.il.us

LEGEND

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" (QL-B) UNLESS OTHERWISE NOTED. QL-B INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QL-B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.

SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS.

ABBREVIATIONS:

(QL-C)	DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.
(QL-D)	DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.
(DATFI)	DEPICTED ACCORDING TO FIELD INSPECTION
(FO)	FIBER OPTIC
(AATUR)	ABANDONED ACCORDING TO UTILITY RECORDS
(AATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
(EATFI)	EMPTY ACCORDING TO FIELD INSPECTION
EOI	END OF ELECTRONIC DESIGNATING INFORMATION
EORI	END OF UTILITY RECORD INFORMATION
(NAC)	NO ASSOCIATED CABLE FOUND FROM UTILITY STRUCTURE
(NAP)	NO ASSOCIATED PIPING FOUND FROM UTILITY STRUCTURE
⊢——	UTILITY ENDPOINT

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "QL-C" OR "QL-D" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SAM, LLC EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDING TO RECORDS.

ELECTRONIC DEPTH READINGS WERE TAKEN DIRECTLY FROM ELECTRONIC DESIGNATION INSTRUMENTS AND HAVE NOT BEEN VERIFIED BY ANY OTHER MEANS. EQUIPMENT MANUFACTURERS WILL NOT GUARANTEE AND ACCURACY FOR THIS DATA. THEREFORE, THE DEPTH READINGS ARE NOT TO BE CONSIDERED SUITABLE FOR DESIGN DECISIONS. SAM, LLC. DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF RELIABILITY OF ANY ELECTRONIC DEPTH READINGS

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FILE NAME: 1018045328Y

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USER NAME = UNTITLED	DESIGNED - GM/BJ	REVISED - _____	
	DRAWN - JB	REVISED - _____	
PLOT SCALE = 1"=50'	CHECKED - SW/LP	REVISED - _____	
PLOT DATE = 4/21/2020	DATE - 4/23/2020	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING SURVEY
IL 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET 0 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	107
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

ILLINOIS
SCOTT A. WECHTER
REG. 62-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

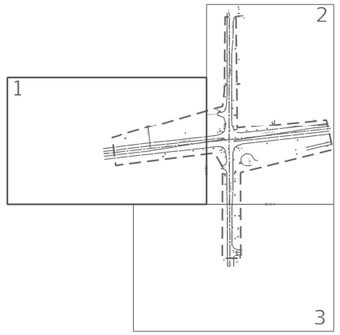
DATE: 4/23/2020

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

A — A — A	AERIAL
CTV — CTV — CTV	CABLE TV
E — E — E	ELECTRIC
FO — FO — FO	FIBER OPTIC
G — G — G	GAS
UNK — UNK — UNK — UNK — UNK	UNKNOWN
	SANITARY SEWER
T — T	TELEPHONE
W — W	WATER
	TEST HOLE

0 50 100 150
SCALE IN FEET
24x36 = 1":50'
11x17 = 1":100'

1



SAM®

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Sheet: 1	Checked By: SW/LP
Date: 4/23/2020	WO No. 157 1018045328Y

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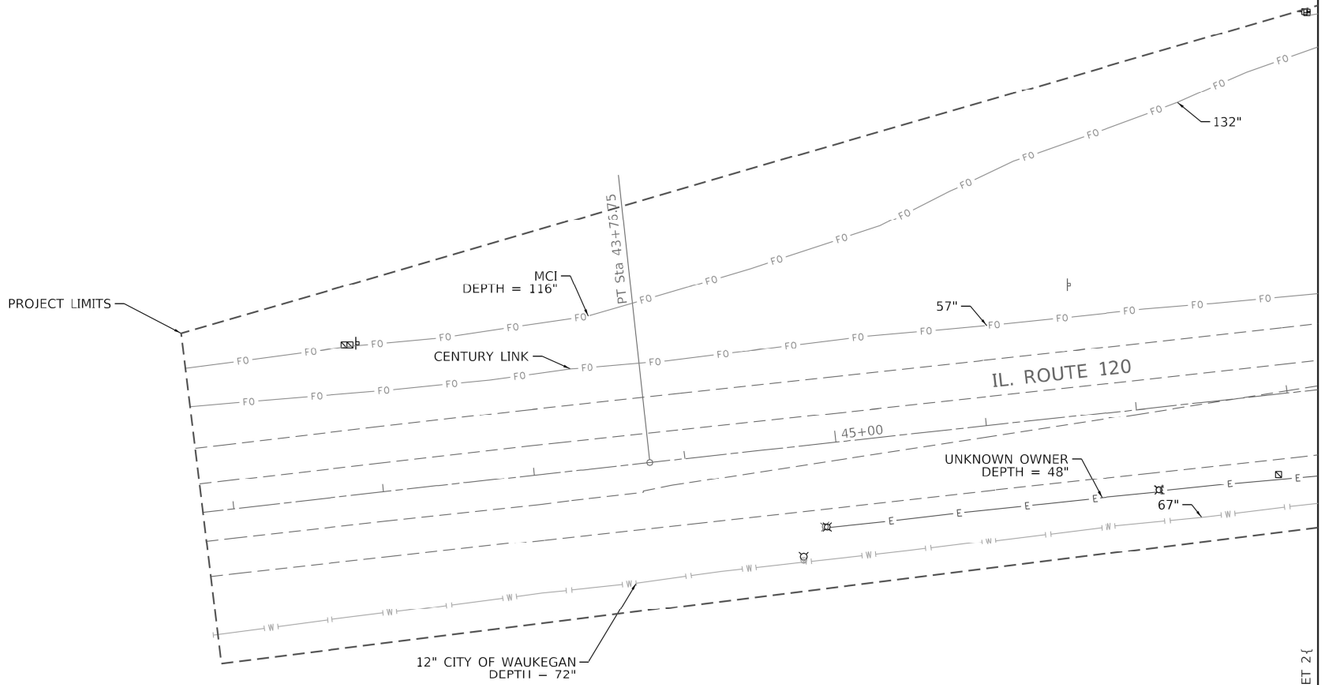

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	DRAWN - JB	REVISED -	
PLOT SCALE = 1"=50'	CHECKED - SW/LP	REVISED -	
PLOT DATE = 4/21/2020	DATE - 4/23/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING SURVEY
IL 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	108
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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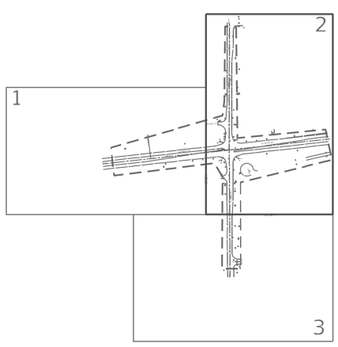
2

SAM®

P-91-208-14	Designated By: GM/BJ
Scale: 1"=50'	Drafted By: JB
Sheet: 1	Checked By: SW/LP
Date: 4/23/2020	WO No. 157 1018045328Y

N

A	AERIAL
CTV	CABLE TV
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
UNK	UNKNOWN
	SANITARY SEWER
T	TELEPHONE
W	WATER
	TEST HOLE



ILLINOIS
SCOTT A. WECHTER
REG. 62-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 4/23/2020

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

0 50 100 150
SCALE IN FEET
24x36 = 1":50'
11x17 = 1":100'

COMED DEPTH = 65"
AT&T DEPTH = 40"
LAKE COUNTY DOT DEPTH = 26"
MCI DEPTH = 102"
4" METALLIC NORTH SHORE GAS DEPTH = 72"
12" PVC VILLAGE OF GURNEE DEPTH = 65"
METALLIC NORTH SHORE GAS DEPTH = 65"
132"
60"
42" HDPE FORCE MAIN NSSD (1963)
45"
PROJECT LIMITS
COMED/AT&T
38"
O'PLAINE RD.
51"
4" METALLIC NORTH SHORE GAS DEPTH = 62"
12" PVC VILLAGE OF GURNEE DEPTH = 69"
AT&T
COMED/AT&T
AT&T
118"
41"
PROJECT LIMITS
84"
MCI DEPTH = 113"
29"
COMED/AT&T
EASTWOOD AVE.
42" HDPE FORCE MAIN NSSD (1964)
UNKNOWN OWNER
LAKE COUNTY DOT
96"
48"
28"
UNKNOWN OWNER
36" HDPE FORCE MAIN NSSD (CROSSING IL ROUTE 120)
IL. ROUTE 120
153+00
CENTURYLINK DEPTH = 57"
50+00
20+00
UNKNOWN OWNER DEPTH = 31"
UNKNOWN OWNER DEPTH = 24"
LAKE COUNTY DOT
COMED/AT&T/COMCAST
79"
86"
12" CITY OF WAUKEGAN
KENNEDY DR.
60"
103"
71"
40"
48"
AT&T/COMCAST
42" HDPE FORCE MAIN NSSD
LAKE COUNTY DOT
COMED
69"
PROJECT LIMITS
4" METALLIC NORTH SHORE GAS (1964) DEPTH = 41'
O'PLAINE RD.
115+00
COMED DEPTH = 44"
16" CITY OF WAUKEGAN DEPTH = 91"
METALLIC NORTH SHORE GAS DEPTH = 70"
UNKNOWN
COMED DEPTH = 40"
AT&T DEPTH = 34"
LAKE COUNTY DOT DEPTH = 60"
}MATCH SHEET 3{
}MATCH SHEET 1{

2" METALLIC NORTH SHORE GAS
PROJECT LIMITS
CENTURY LINK DEPTH = 72"
UNKNOWN OWNER
40"
UNKNOWN OWNER
28"
17"
16" CITY OF WAUKEGAN DEPTH = 43"
62"
EOI
35"
66"
PROJECT LIMITS
2" METALLIC NORTH SHORE GAS (1964) (QL-D)
AT&T DEPTH = 38"
2" METALLIC NORTH SHORE GAS (1964) DEPTH = 38"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING SURVEY
IL 120 AT O'PLAINE ROAD

SCALE: 1"=50' | SHEET 2 OF 3 SHEETS | STA. _____ | TO STA. _____

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	109
ILLINOIS FED. AID PROJECT		CONTRACT NO. 62R18		

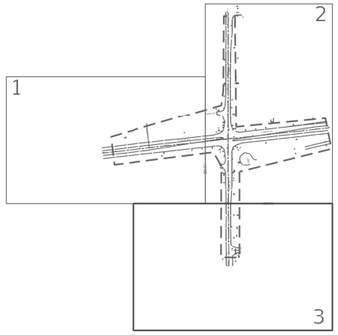
USER NAME = UNTITLED	DESIGNED - GM/BJ	REVISED - _____	
PLOT SCALE = 1'=50'	DRAWN - JB	REVISED - _____	
PLOT DATE = 4/21/2020	CHECKED - SW/LP	REVISED - _____	
	DATE - 4/23/2020	REVISED - _____	

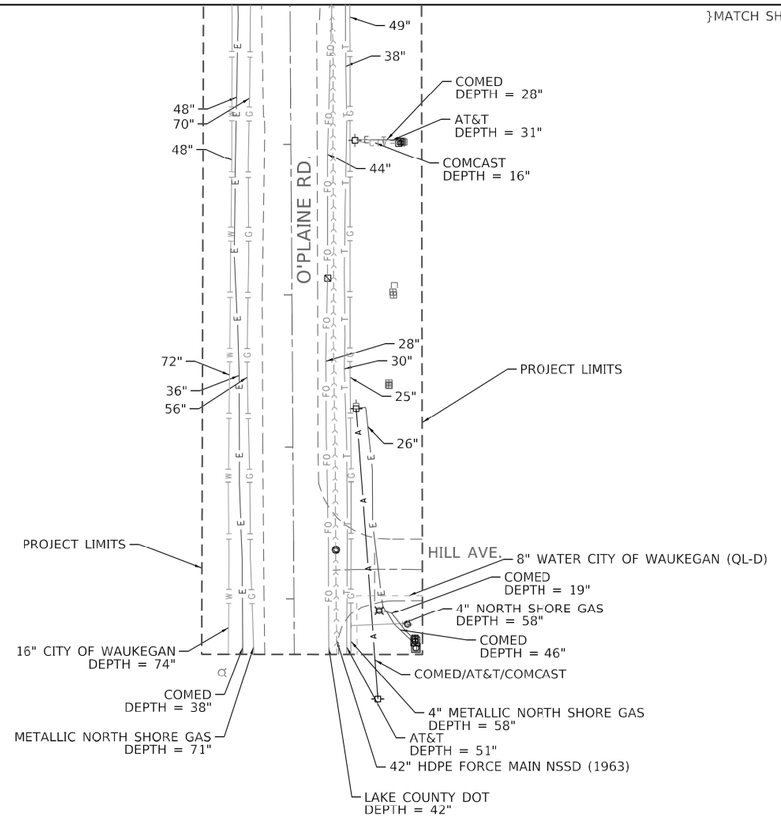
ILLINOIS
SCOTT A. WECHTER
REG. 62-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 4/23/2020

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC





SAM®

P-91-208-14-SUE.DGN	Designated By: GM/BJ
Scale: 1"=50'	Drafted By: JB
Sheet: 1	Checked By: SW/LP
Date: 4/23/2020	WO No. 157 1018045328Y

N

A	AERIAL
CTV	CABLE TV
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
UNK	UNKNOWN
	SANITARY SEWER
T	TELEPHONE
W	WATER
	TEST HOLE

0 50 100 150
SCALE IN FEET
24x36 = 1":50'
11x17 = 1":100'

3

MODEL: 1018045328Y
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PLOT SCALE = 1"=50'	CHECKED - SW/LP	REVISED - _____	
PLOT DATE = 4/21/2020	DATE - 4/23/2020	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING SURVEY
IL 120 AT O'PLAINE ROAD

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

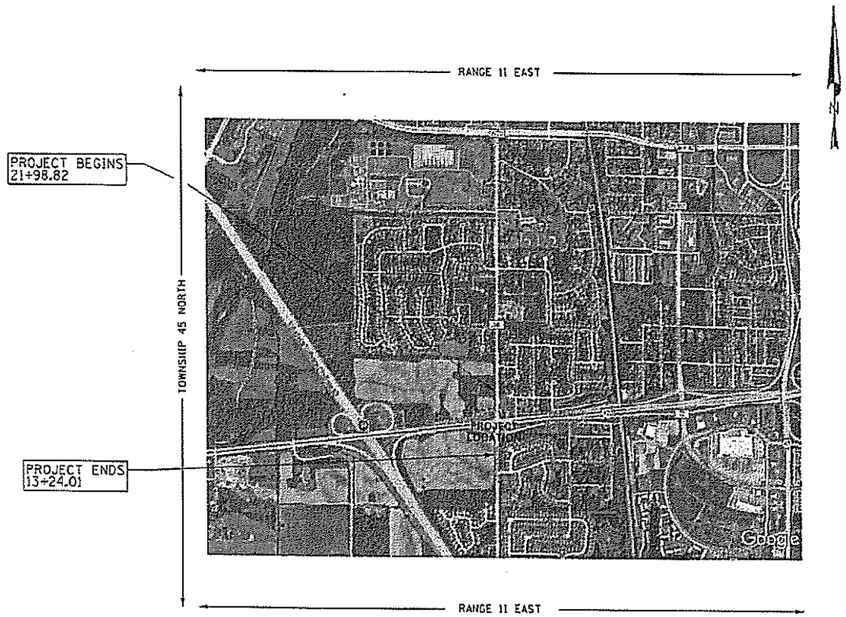
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	110
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

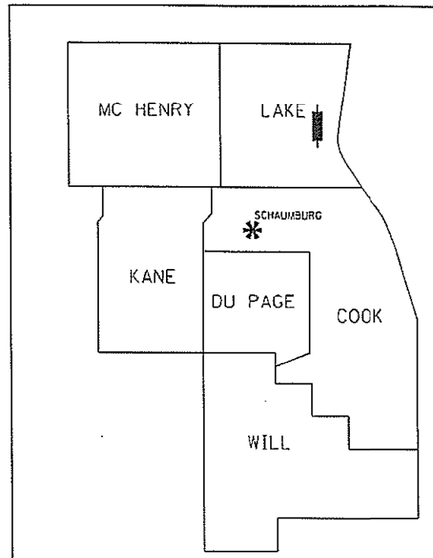
ROUTE: IL 120 (BELVIDERE ROAD)
SECTION:
COUNTY: LAKE COUNTY
LIMITS: O'PLAINE ROAD
JOB NO.: R-91-013-18

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
INF0001	LIBERTYVILLE FARMS, LLC, A DELAWARE LIMITED LIABILITY COMPANY	2, 3, & 5	
INF0002	THOMAS STREICHER, AS TO AN UNDIVIDED 1/3 INTEREST, MICHAEL STREICHER AND KATHLEEN STREICHER, HUSBAND AND WIFE, AS JOINT TENANTS, AS TO AN UNDIVIDED 1/3 INTEREST, AND NICHOLAS STREICHER AND KATHLEEN STREICHER, HUSBAND AND WIFE, AS JOINT TENANTS, AS TO AN UNDIVIDED 1/3 INTEREST	4	



LOCATION MAP

LENGTH = 874.81 FT. = 0.166 MILE



DISTRICT HEADQUARTERS: –
LOCATION OF SECTION INDICATED THUS: –

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

RECEIVED
APR 16 2019
PLATS & LEGALS

F.A.P. 333 FA 333 21 INTERSECTION LAKE CONTRACT NO. 62R18

157 111

MODEL: Default
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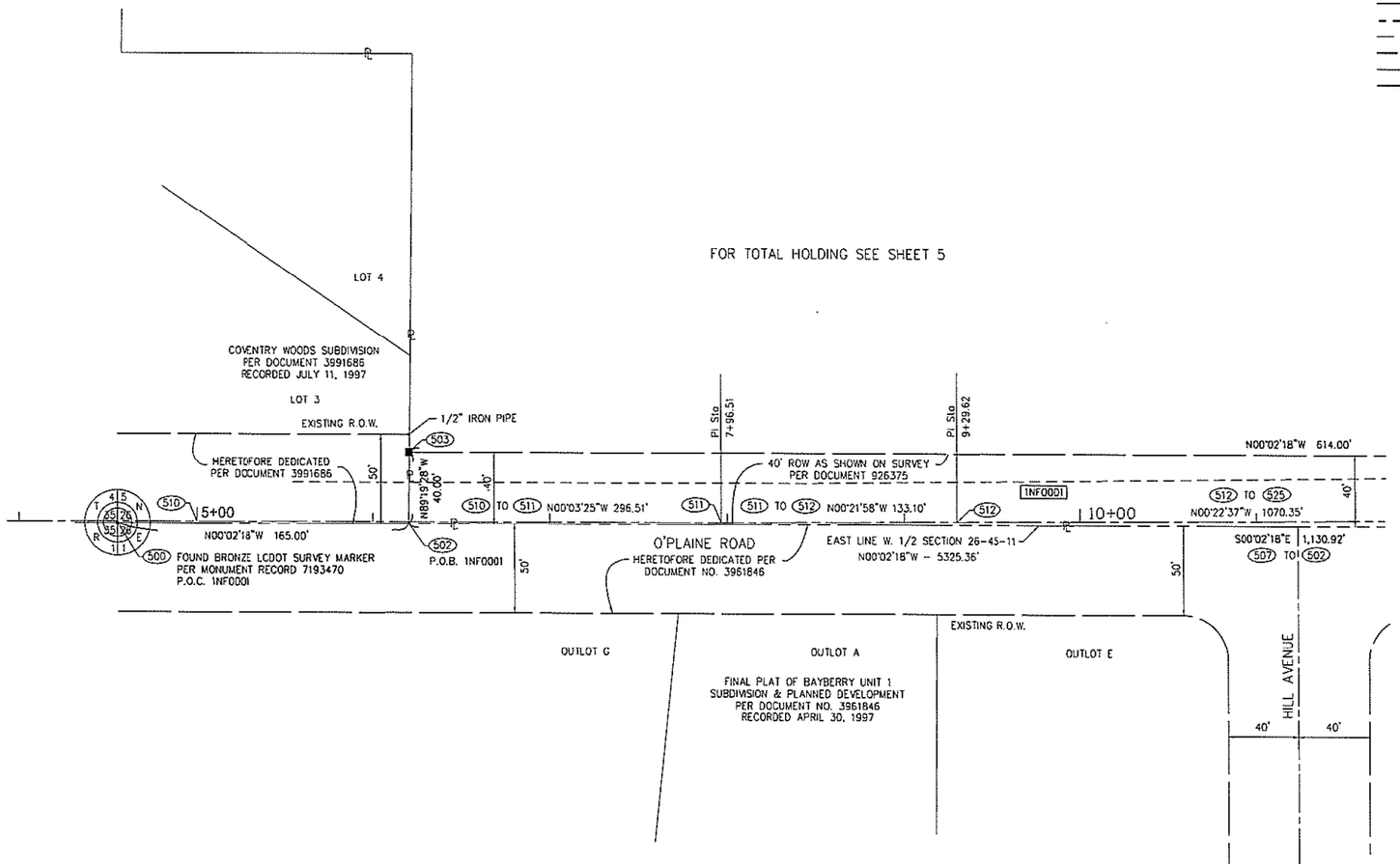
w/E:1622/1622.25 R-91-013 Belvidere IL 120 at O'Plaine Road/5/Opn/Sheets/Sheet 1.dgn

PART OF THE SW. 1/4 OF SECTION 26, TWP. 45 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1NF0001	45.995	1.101	1.036	44.894			07-26-300-009; 07-26-300-010; 07-26-300-012 & 07-26-300-013



LEGEND

SECTION CORNER

QUARTER SECTION CORNER

GRAPHIC SCALE FEET 0 40'

SCALE: 1"= 40'

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, TIMOTHY G. WOLFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, JACOB AND HEFNER ASSOCIATES, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-003073,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 21st DAY OF FEBRUARY 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003535
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

TIMOTHY G. WOLFE 35-003535 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS DOWNERS GROVE

- o IRON PIPE OR ROD FOUND
- ⊕ 'MAG' NAIL SET
- \+ CUT CROSS FOUND OR SET
- O 5 / 8" REBAR SET
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◒ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101.02 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

SURVEY NOTES:
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2. BEARINGS, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.9999544703.
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON FEBRUARY 21, 2019.

REVISION DATE: __/__/__ REVISION MADE BY: _____

RECEIVED
JUN 25 2019
PLATS & LEGALS

PRINT USE ONLY

JACOB & HEFNER ASSOCIATES
1333 Butterfield Road, Suite 300, Downers Grove, IL 60515
PHONE: (630) 652-4444, FAX: (630) 652-4451
www.jacobandhefner.com
Illinois Professional Design Firm
License No. 184-003073 Exp. 4/30/19

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL. 120 (BELVIDERE ROAD)

LIMITS: O'PLAINE ROAD — COUNTY: LAKE
SECTION: — JOB NO.: R-91-013-18
STA. 5+00.00 TO STA. 11+00.00
SCALE: 1" = 40' — SHEET 2 OF 5 SHEETS

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

F.A.P. 333 FA 333 21 INTERSECTION LAKE CONTRACT NO. 62R18

MODEL: Default
FILE NAME: pw:\\ilbot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADD\staDesign\P120814-int-details.dgn
M:/E/822/1822.25 R-91-013-18 Belvidere IL 120 at O'Plaine Road/S/Opn/Sheets/Sheet 2.dgn

PART OF THE SW. 1/4 OF SECTION 26, TWP. 45 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
INF0001	45.995	1.101	1.036	44.894			07-26-300-009; 07-26-300-010; 07-26-300-012 & 07-26-300-013

LEGEND

SECTION CORNER

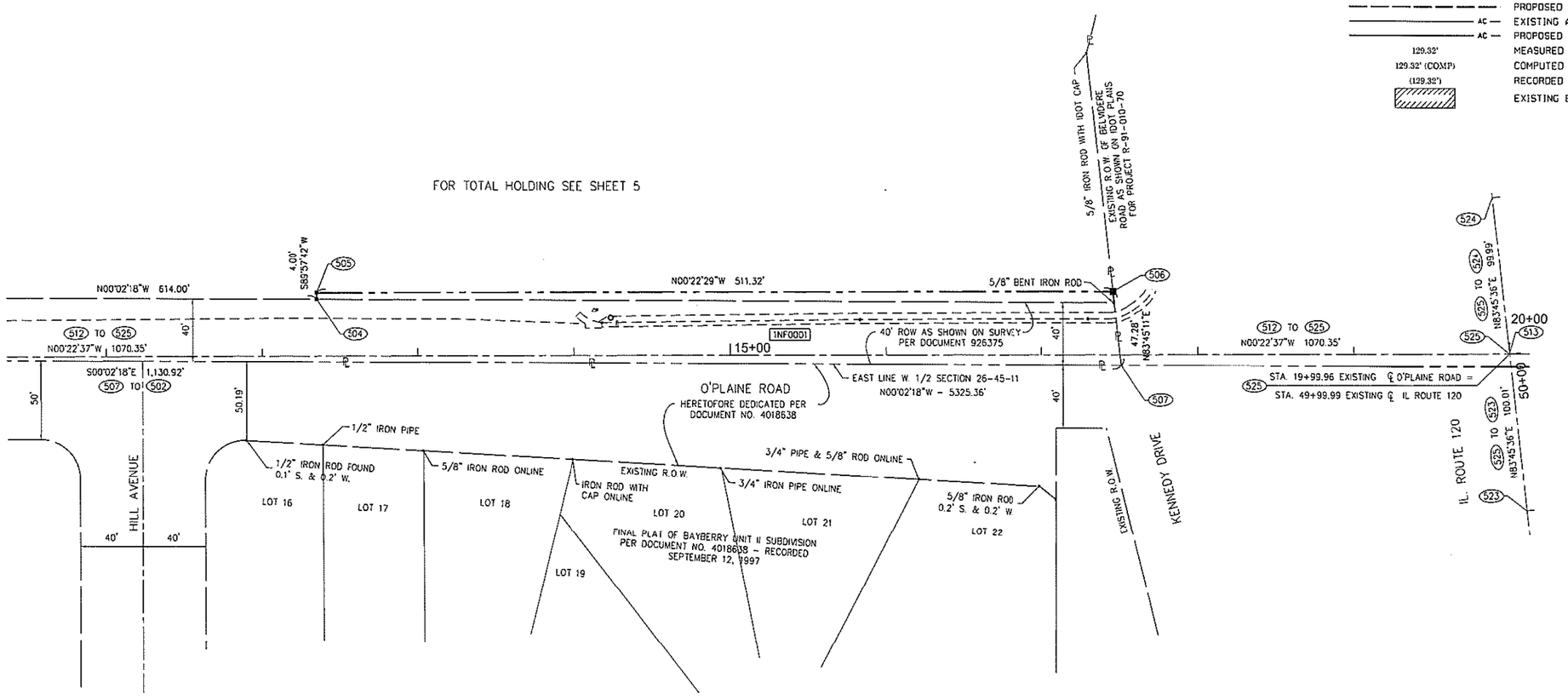
QUARTER SECTION CORNER

GRAPHIC SCALE FEET

SCALE: 1"= 40'

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

FOR TOTAL HOLDING SEE SHEET 5



STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, TIMOTHY G. WOLFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, JACOB AND HEFNER ASSOCIATES, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-003073,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 21st DAY OF FEBRUARY 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003535
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

TIMOTHY G WOLFE 35-003535 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS DOWNERS GROVE

- o IRON PIPE OR ROD FOUND
- ⊕ 'MAG' NAIL SET
- \+ CUT CROSS FOUND OR SET
- ○ 5 / 8" REBAR SET
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4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON FEBRUARY 21, 2019.

REVISION DATE: __/__/__ REVISION MADE BY: _____

JACOB & HEFNER ASSOCIATES
1333 Butterfield Road, Suite 500, Downers Grove, IL 60515
PHONE: (630) 472-0660, FAX: (630) 472-0661
http://jacobhefner.com
Illinois Professional Design Firm
License No. 184-003073 Exp. 4/30/19

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL. 120 (BELVIDERE ROAD)

LIMITS: O'PLAINE ROAD — COUNTY: LAKE
SECTION: — JOB NO.: R-91-013-18
STA. 11+00.00 TO STA. 20+00.00
SCALE: 1" = 40' — SHEET 3 OF 5 SHEETS

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

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JUN 25 2019
PLATS & LEGALS

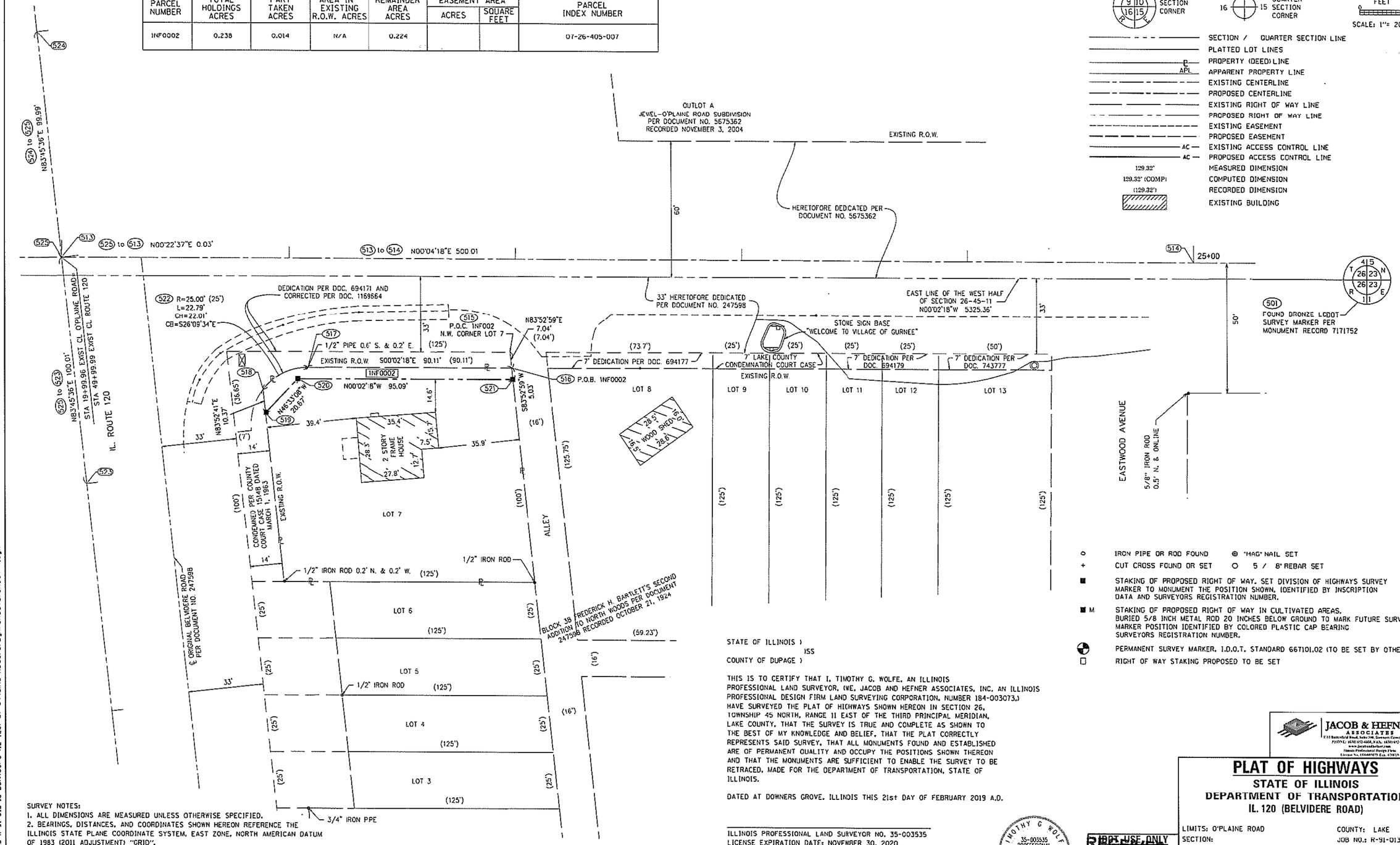
F.A.P. 333 FA 333 21 INTERSECTION LAKE CONTRACT NO. 62R18

MODEL: Default
FILE NAME: pw:\\Bert-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADData\Design\P120814-sht-details.dgn

W:/E602/E602225 R-91-013-18 Belvidere (IL 120) at O'Plaine Road/5/Dgn/Sheets/Sheet 3.dgn

PART OF THE SE. 1/4 OF SECTION 26, TWP. 45 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1NF0002	0.238	0.014	N/A	0.224			07-26-405-007



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LEGEND

SECTION CORNER — QUARTER SECTION CORNER — GRAPHIC SCALE FEET — SCALE: 1"= 20'

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- P — PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 129.32' — MEASURED DIMENSION
- 129.32' (COMP) — COMPUTED DIMENSION
- (129.32') — RECORDED DIMENSION
- EXISTING BUILDING

- o IRON PIPE OR ROD FOUND
- ⊕ "HAG" NAIL SET
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STATE OF ILLINOIS)
ISS
COUNTY OF DUPAGE)

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DATED AT DOWNERS GROVE, ILLINOIS THIS 21st DAY OF FEBRUARY 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003535
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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REVISION DATE: __/__/__ REVISION MADE BY: _____

TIMOTHY G WOLFE 35-003535 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS DOWNERS GROVE

RECEIVED
JUN 25 2019
PLATS & LEGALS

JACOB & HEFNER ASSOCIATES
1333 Butterfield Road, Suite 100, Downers Grove, IL 60515
PHONE: (630) 452-4666, FAX: (630) 452-4601
www.jacobandhefner.com
Illinois Professional Design Firm
License No. 184-003073 Exp. 4/30/19

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL. 120 (BELVIDERE ROAD)

LIMITS: O'PLAINE ROAD — COUNTY: LAKE
SECTION: — JOB NO.: R-91-013-18
STA. 20+00 TO STA. 25+00
SCALE: 1" = 20' — SHEET 4 OF 5 SHEETS

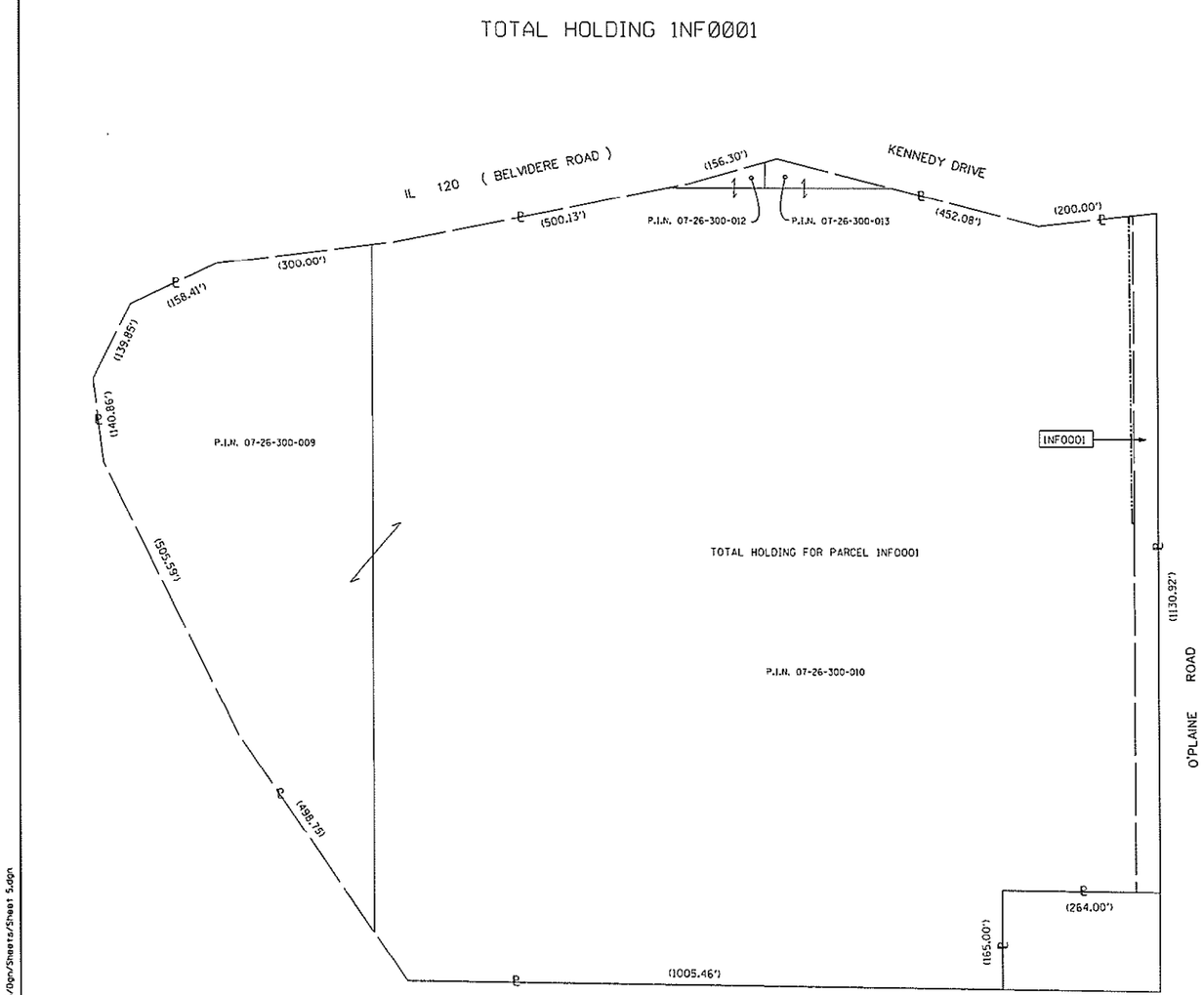
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

F.A.P. 333 — FA 333 AT INTERSECTION — LAKE — CONTRACT NO. 62R18

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADData\Design\P120814-sht-detailk.dgn

H/E/E622/E622.25 R-91-013-18 Belvidere (IL 120) at O'Plaine Road/S/Dgn/Sheets/Sheet 4.dgn

PART OF THE SW. 1/4 OF SECTION 26, TWP. 45 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



PROJECT COORDINATES				
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)				
POINT NUMBER	NORTHING	EASTING	STATION	OFFSET
500	2067441.014	1097473.244	SECTION	CORNER
501	2072766.372	1097469.670	SECTION	CORNER
502	2067606.014	1097473.133	6+20.26	1.03' RT.
503	2067606.486	1097433.133	6+20.77	38.97' LT.
504	2068220.486	1097432.721	12+34.98	36.35' LT.
505	2068220.483	1097428.721	12+35.01	40.35' LT.
506	2068731.793	1097425.378	17+46.33	40.33' LT.
507	2068736.938	1097472.374	17+51.16	6.70' RT.
510	2067485.750	1097472.227	POT 5+00.00	0.00' RT.
511	2067782.262	1097471.932	PI 7+96.51	0.00' RT.
512	2067915.363	1097471.082	PI 9+29.62	0.00' RT.
513	2068985.718	1097464.042	PI 19+99.99	0.00' RT.
514	2069485.723	1097464.668	POT 25+00.00	0.00' RT.
515	2069183.195	1097505.075	21+97.52	40.79' RT.
516	2069183.945	1097512.074	21+98.28	47.78' RT.
517	2069093.830	1097512.135	21+08.17	47.96' RT.
518	2069074.072	1097521.840	20+88.42	57.69' RT.
519	2069075.177	1097532.147	20+89.54	67.99' RT.
520	2069089.395	1097517.138	21+03.74	52.97' RT.
521	2069184.481	1097517.074	21+98.82	52.78' RT.
522	2069093.847	1097537.135	RP 21+08.21	72.96' RT.
523	2068996.556	1097563.456	POT 51+00.00	0.00' RT.
524	2068974.817	1097364.641	POT 49+00.00	0.00' RT.
525	2068985.686	1097464.042	POT 19+99.96	0.00' RT.
525	2068985.686	1097464.042	POT 49+99.99	0.00' RT.

LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

N

GRAPHIC SCALE FEET
0 120'
SCALE: 1"= 120'

- IRON PIPE OR ROD FOUND
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STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

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PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL. 120 (BELVIDERE ROAD)

LIMITS: O'PLAINE ROAD — COUNTY: LAKE
SECTION: — JOB NO.: R-91-013-18
STA. TO STA.
SCALE: 1" = 120' — SHEET 5 OF 5 SHEETS

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

REVISION DATE: __/__/__ REVISION MADE BY: _____

RECEIVED FOR RECORD ONLY
JUN 25 2019
PLATS & LEGALS

F.A.P. 333 FA 333 21 INTERSECTION LAKE CONTRACT NO. 62R18

MODEL: Default
FILE NAME: pw:\dlcot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADData\Design\P120814-sht-details.dgn
n/e/1622/1622.25 R-91-013-18 Belvidere IL 120 at O'Plaine Road/S/Dgn/Sheets/Sheet 5.dgn

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 3/7/23

ROUTE O'Plaine Road DESCRIPTION Crossing of IL 120 at O'Plaine Road - Roadway Boring LOGGED BY Sponaugle

SECTION FA 333 21 Intersection LOCATION E:1097501.1;N:2068176.8

COUNTY Lake DRILLING METHOD Hand Auger HAMMER TYPE Hand Auger

STRUCT. NO. NA
Station NA

BORING NO. SGB-01
Station 11+90.9
Offset 31.70ft RT
Ground Surface Elev. 733.20 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA Hrs. Filled ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (2")	733.00		P		
CINDER FILL (3")	732.70		U S H	0.8 P	22.3
Medium stiff, olive Black (5Y 2/1) CLAY LOAM, trace gravel, low plasticity, moist	731.70		P		
Very stiff, moderate yellowish Brown (10YR 5/4) with gray mottling SILTY CLAY, trace gravel, medium plasticity, moist			U S H	3.0 P	17.6
			P		
		-5	U S H	3.0 P	22.3
			P		
Stiff, olive Gray (5Y 4/1) CLAY, trace gravel, medium plasticity, moist	726.20		U S H	1.0 P	16.1
			P		
			U S H	1.8 P	21.3
End of boring 10'	723.20	-10			
		-15			
		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 3/6/23

ROUTE O'Plaine Road DESCRIPTION Crossing of IL 120 at O'Plaine Road - Roadway Boring LOGGED BY Sponaugle

SECTION FA 333 21 Intersection LOCATION E:1097429.1;N:2068559.2

COUNTY Lake DRILLING METHOD Hollow Stem Auger HAMMER TYPE D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-02
Station 15+73.8
Offset 37.70ft LT
Ground Surface Elev. 735.00 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA Hrs. Filled ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (5")	734.50				
Stiff, dark yellowish Orange (10YR 7/4) with black mottling CLAY, trace gravel, medium plasticity, moist.LL=51%, PI=29			2		
			3 5	1.8 S	25.8
Hard, moderate yellowish Brown (10YR 5/4) with gray mottling SILTY CLAY, trace gravel, medium plasticity, moist	732.00		4		
		-5	6 8	4.6 B	16.7
			8		
			11 16	6.3 B	15.9
			13		
			19 25	6.0 S	16.9
End of boring at 10'	725.00	-10			
		-15			
		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P120814\CADD\Design\P120814-sht-Boring Logs	USER NAME = ivan.diaz	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	116
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

Interra, Inc.
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Bolingbrook, IL 60440
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SOIL BORING LOG

Date 3/6/23

ROUTE O'Plaine Road **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097407.6;N:2068870.9

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-03
Station 18+85.5
Offset 57.20ft LT
Ground Surface Elev. 734.70 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 730.7 ft
Upon Completion 729.4 ft
After NA **Hrs.** Filled ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (3") 734.45			
Medium dense, dark yellowish Orange (10 YR 6/6) coarse to fine SANDY LOAM, some gravel, moist.	7		
	7 8		9.6
	7		
Little gravel Free water at 4' -5	8 8		11.0
	6		
Moderate yellowish brown (10 YR 5/4)	8 10		15.5
	6		
Pale yellowish brown (10 YR 6/2), trace gravel 724.70 -10	8 12		9.4
End of boring at 10'			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 3/7/23

ROUTE O'Plaine Road **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097501.4;N:2069104.6

COUNTY Lake **DRILLING METHOD** Hand Auger **HAMMER TYPE** Hand Auger

STRUCT. NO. NA
Station NA

BORING NO. SGB-04
Station 21+18.7
Offset 37.30ft RT
Ground Surface Elev. 736.20 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA **Hrs.** Filled ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (3") 735.90	P		
Very stiff, moderate yellowish Brown (10YR 5/4) with gray mottling CLAY LOAM, little gravel, low plasticity, moist, LL=30%, PI=14%	U S H	2.0 P	11.3
	P		
Stiff	U S H	1.5 P	15.1
	P		
731.20 -5	U S H	2.5 P	13.4
Medium stiff, dark yellowish Brown (10Y 4/2) LOAM, trace gravel, moist Moisture Content: 20.8%	P		
729.40	U S H	1.0 P	15.5
Stiff, dark yellowish Brown (10Y 4/2) CLAY LOAM, trace gravel, medium plasticity, moist	P		
Very soft	U S H	<0.25 P	24.1
726.20 -10			
End of boring 10'			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 5/11/2023	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	117
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

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SOIL BORING LOG

Date 3/6/23

ROUTE O'Plaine Road **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097413.7;N:2069216.7

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-05
Station 22+31.2
Offset 50.60ft LT
Ground Surface Elev. 738.10 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA **Hrs.** Filled ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (4") 737.77				
Very stiff, moderate yellowish Brown (10 YR 5/4) with gray mottling CLAY LOAM, trace gravel, medium plasticity, moist, LL=35%, PI=17%		3		
		4 5	2.3 B	17.4
		3		
Hard		9 11	6.2 S	16.0
		5		
		7 13	7.4 S	16.7
		6		
		13 17	8.7 B	16.4
728.10	-10			
End of boring at 10'				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/7/23

ROUTE O'Plaine Road **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097500.6;N:2069368.6

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-06
Station 23+83.0
Offset 36.00ft RT
Ground Surface Elev. 738.30 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA **Hrs.** Filled ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
GRAVEL BASE COURSE (4") 738.00				
Hard, dark yellowish Orange (10YR 6/6) SILTY CLAY, trace gravel, medium plasticity, moist		6		
		8 7	4.2 S	16.1
735.30				
Medium stiff, dark yellowish Orange (10YR 6/6) fine SANDY CLAY, low plasticity, moist		2		
	-5	1 2	0.5 P	18.2
		1		
Soft, trace gravel		2 3	0.3 P	19.8
730.30				
Medium stiff, dark greenish Gray (5G 4/1) CLAY, medium plasticity, moist		2		
		2 3	0.7 B	19.1
728.30	-10			
End of boring 10'				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	118
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

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SOIL BORING LOG

Date 3/7/23

ROUTE O'Plaine Road **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097501.7;N:2069675.4

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-07
Station 26+89.7
Offset 36.80ft RT
Ground Surface Elev. 741.90 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA **Hrs.** Filled ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (7") 741.30			
Very stiff, dark yellowish Brown (10Y 4/2) SILTY CLAY, trace gravel, low plasticity, moist, LL=28%, PI=12%	3		
	4 5	2.6 S	14.8
738.90			
Stiff, moderate yellowish Brown (10YR 5/4) with gray mottling SILTY CLAY, trace gravel, trace organics, medium plasticity, moist	3		
-5	4 5	1.6 B	19.6
	3		
Very stiff	3 4	2.3 B	18.9
	2		
Stiff	3 4	1.0 B	18.6
731.90 -10			
End of boring 10'			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/7/23

ROUTE O'Plaine Road **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097501.0;N:2069809.9

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-08
Station 28+24.3
Offset 35.90ft RT
Ground Surface Elev. 741.70 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA **Hrs.** Filled ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (5") 741.30			
Stiff, moderate yellowish Brown (10YR 5/4) with gray mottling SILTY CLAY, trace gravel, trace orgainics, low plasticity, moist,LL=28%, PI=12%	2		
	3 4	1.7 B	17.5
	2		
-5	3 3	1.1 B	19.6
	1		
Medium stiff, black mottling	2 3	0.9 B	19.9
733.70			
Stiff, moderate yellowish Brown (10YR 5/4) with gray mottling SILTY CLAY, trace gravel, medium plasticity, moist	2		
	2 4	1.1 B	18.5
731.70 -10			
End of boring 10'			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -
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Default		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL. ROUTE 120 AT O'PLAINE ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	119
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

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SOIL BORING LOG

Date 3/7/23

ROUTE IL 120 **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Roadway Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097759.3;N:2069005.8

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. SGB-09
Station 52+95.7
Offset 12.10ft RT
Ground Surface Elev. 729.60 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA **Hrs.** Filled ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (5") 729.20				
Very stiff, Black (N1) CLAY LOAM and CINDERS (fill), low plasticity, moist, moisture 32.5% 728.10		4		
		7		22.5
Very stiff, dusky yellowish Brown (10YR 2/2) CLAY LOAM and CINDERS (fill), trace gravel, low plasticity, moist, LL=38%, PI=17% 726.60		8	2.2 B	
Stiff, grayish Olive (10Y 4/2) with brown mottling CLAY, medium plasticity, moist		3		
		5		24.2
	-5	7	1.7 B	
724.10				
Hard, moderate yellowish Brown (10YR 5/4) with gray mottling SILTY CLAY, trace gravel, medium plasticity, moist		5		
		8		15.6
		11	5.3 B	
		7		
		10		16.3
719.60	-10	11	9.0 S	
End of boring 10'				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/6/23

ROUTE IL 120 **DESCRIPTION** Crossing of IL 120 at O'Plaine Road - Structural Boring **LOGGED BY** Sponaugle

SECTION FA 333 21 Intersection **LOCATION** E:1097546.0;N:2068916.6

COUNTY Lake **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. TSB-01
Station 50+73.9
Offset 77.50ft RT
Ground Surface Elev. 732.00 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion 703.6 ft ▽
After NA **Hrs.** Filled ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (4") 731.70				
Hard, moderate yellowish Brown (10 YR 5/4) with gray mottling SILTY CLAY, trace gravel, medium plasticity, moist		5		
		5		16.4
		8	4.9 B	
		3		
Very stiff		7		16.7
2" sandy clay seam at 4'	-5	10	2.1 B	
		7		
Hard, no mottling		6		15.1
		14	6.3 B	
		4		
		7		16.6
	-10	9	5.6 B	
721.50				
Hard, olive Gray (5Y 4/1) SILTY CLAY, trace gravel, medium plasticity, moist		4		
		7		17.1
		8	4.1 B	
		4		
Very stiff		7		17.5
	-15	8	3.4 B	
		3		
		5		17.6
		7	2.2 B	
		4		
		5		16.5
712.00	-20	7	2.9	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very stiff, olive Gray (5Y 4/1) SILTY CLAY, trace gravel, medium plasticity, moist			B	
		6		
Hard		13		18.1
		19	4.8	
			B	
		6		
Very stiff		8		20.0
	-25	9	2.6	
			B	
		8		
Stiff		10		20.3
		13	1.5	
			P	
▽		5		
Very stiff		6		20.9
	-30	9	2.5	
			B	
		4		
		6		19.8
	-35	10	3.9	
			B	
		6		
		9		17.7
End of Boring at 40' 692.00	-40	11	3.2	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 5/11/2023	CHECKED -	REVISED -
Default		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL. ROUTE 120 AT O'PLAINE ROAD
SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	120
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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SOIL BORING LOG

Date 3/6/23

ROUTE IL 120 DESCRIPTION Crossing of IL 120 at O'Plaine Road - Structural Boring LOGGED BY Sponaugle

SECTION FA 333 21 Intersection LOCATION E:1097373.1;N:2069046.3

COUNTY Lake DRILLING METHOD Hollow Stem Auger HAMMER TYPE D25 Auto (83% efficiency)

STRUCT. NO. NA
Station NA

BORING NO. TSB-02
Station 49+16.2
Offset 70.10ft LT
Ground Surface Elev. 735.30 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After NA Hrs. Filled ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL (4") 734.97 Hard, moderate yellowish Brown (10 RY 5/4) SILTY CLAY, trace gravel, medium plasticity, moist	5			Very stiff, olive gray (5Y 4/1) SILTY CLAY, trace gravel, medium plasticity, moist	6	B	
	7 8	5.8 B	15.5		8 10	3.0 S	19.7
	5				5		
	10 11	5.5 B	16.1	-25	6 10	2.7 B	20.2
-5	5				5		
	11 18	6.8 B	14.7		7 8	2.9 B	20.1
727.30 Hard, olive gray (5Y 4/1) SILTY CLAY, trace gravel, medium plasticity, moist	3				4		
	8 11	5.8 B	15.2	-30	7 8	2.4 B	20.3
-10	5						
Very stiff	7 9	3.7 B	17.1				
	6				6		
Stiff	9 10	1.5 P	16.5	-35	7 9	2.9 B	18.2
-15	3						
Very stiff	6 9	2.7 B	17.5				
	6				8		
	9 11	2.8	20.4	Hard	10 12	4.1	24.1
715.30 -20				End of boring at 40' 695.30 -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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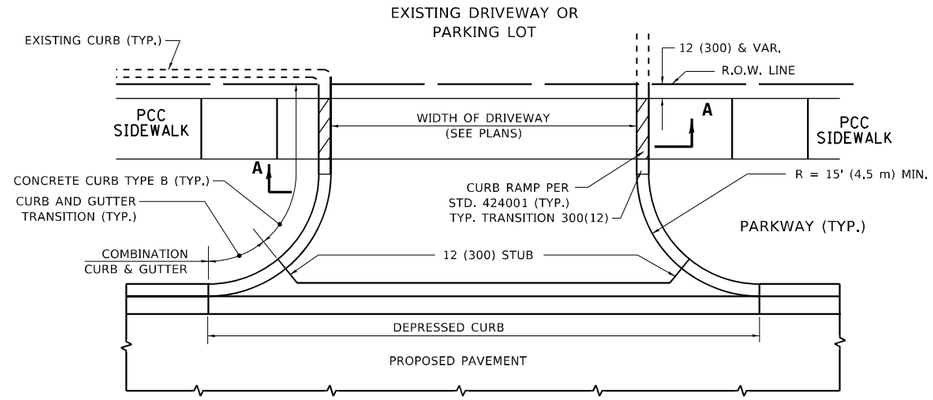
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

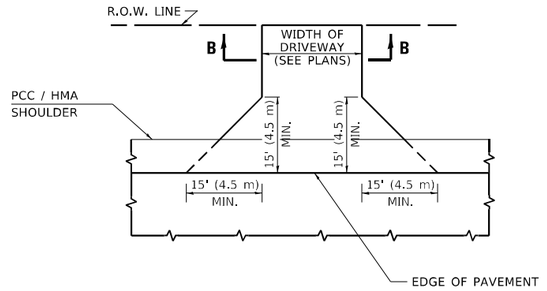
SOIL BORING LOG
IL. ROUTE 120 AT O'PLAINE ROAD

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

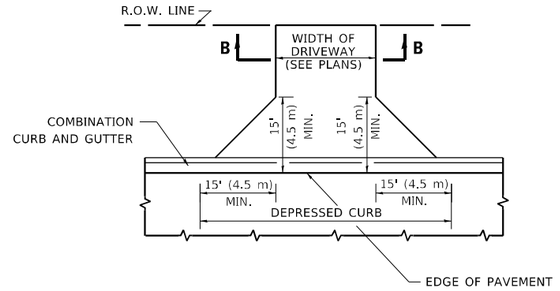
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	121
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



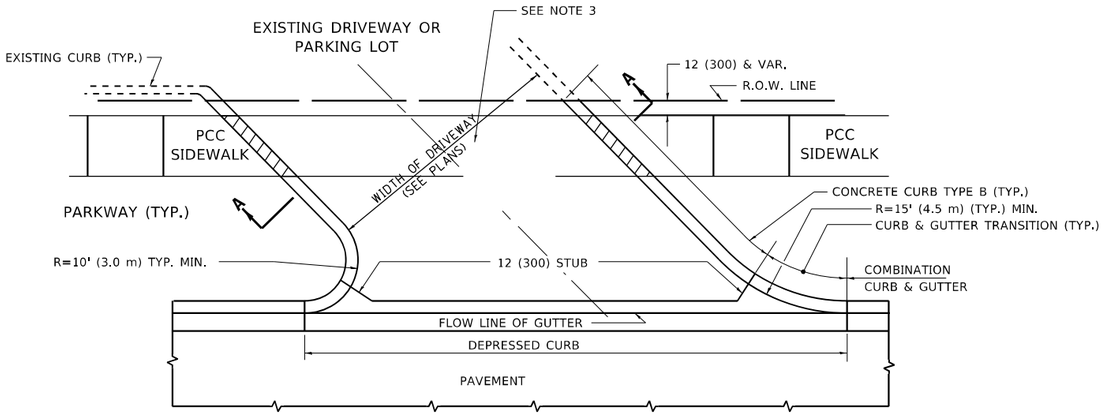
WITH CONCRETE CURB, TYPE B



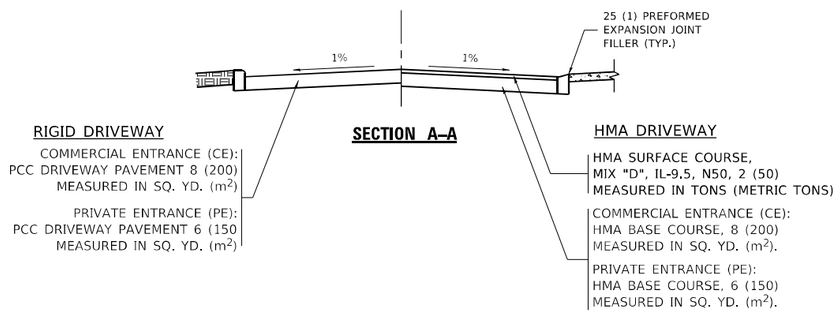
ADJACENT TO PCC /HMA SHOULDER

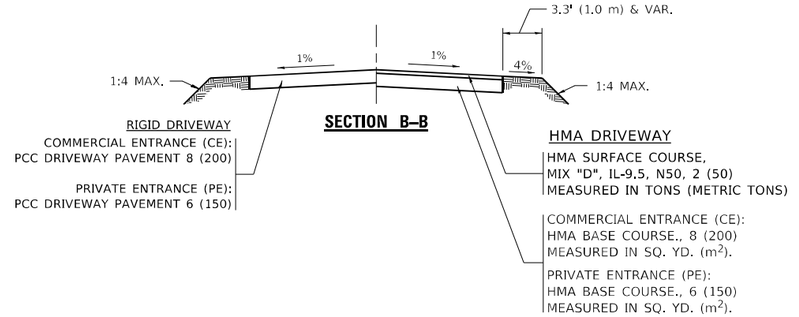


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", IL-95, N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

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

GENERAL NOTES

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

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

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

MODEL: Default
FILE NAME: //vwlldot-pw.bentley.com:PWIDOT Documents:IDOT Offices:District 1:Projects:P120814:dgn:Dist Std.dgn

USER NAME = ivan.diaz	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08	
	DRAWN -	REVISED - R. BORO 09-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-28-19	
PLOT DATE = 5/11/2023	DATE - 11-04-95	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥15'(4.5m)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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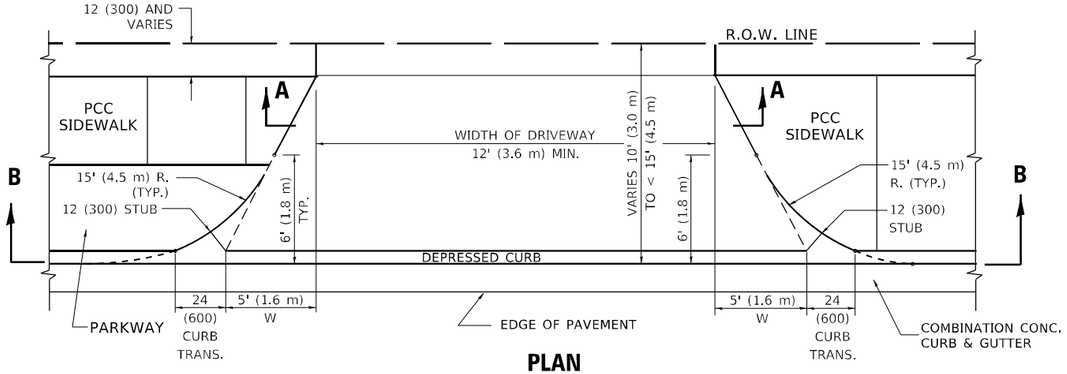
	BD400–01 (BD–01)	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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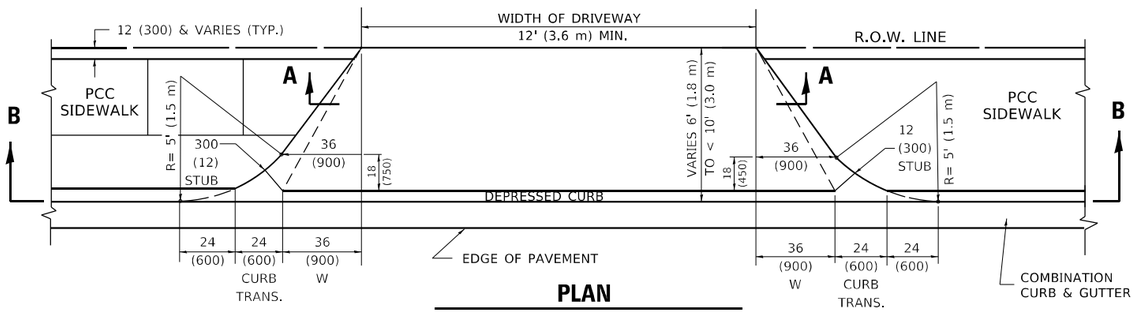

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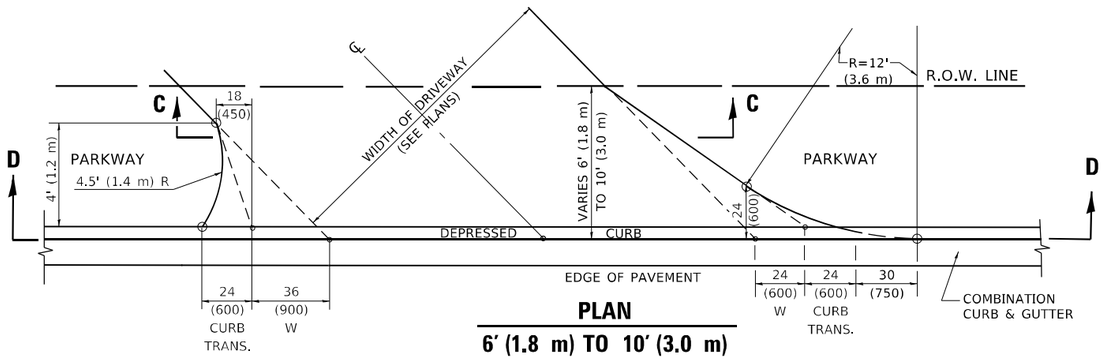
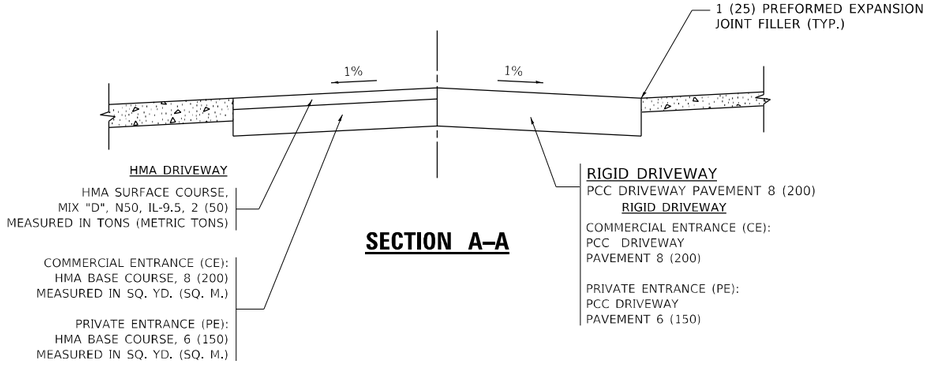
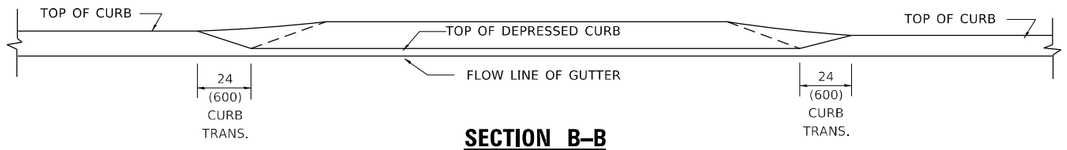


PLAN
6' (1.8 m) TO 10' (3.0 m)



SECTION A–A



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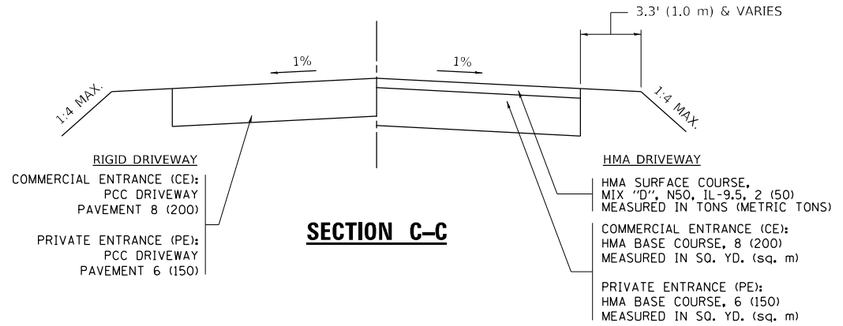

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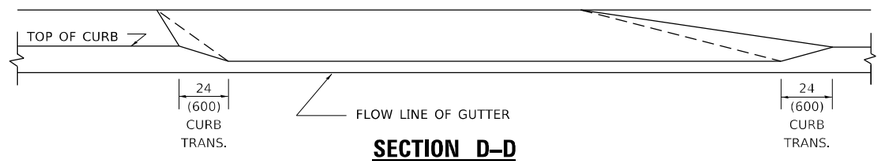

SECTION D–D

GENERAL NOTES

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
2. WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
3. "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

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	DRAWN -	REVISED - R. BORO 09-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19	
PLOT DATE = 5/11/2023	DATE - 11-06-95	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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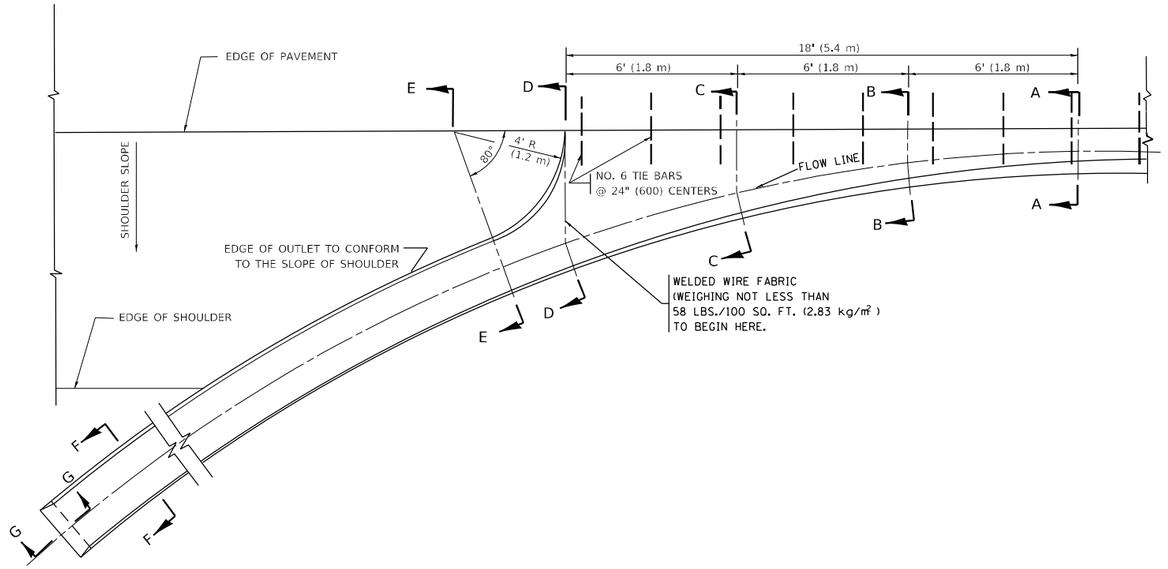
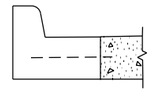
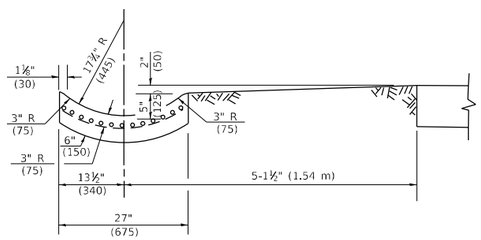
	BD400–02 (BD–02)	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



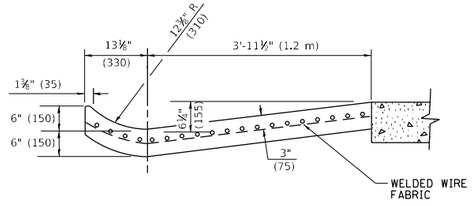


SECTION A–A ✳

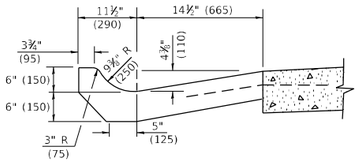
✳ DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001.
FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



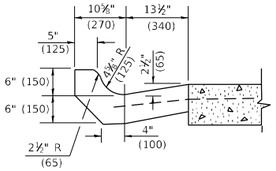
SECTION E–E



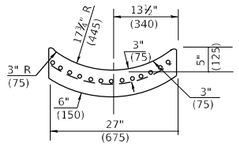
SECTION D–D



SECTION C–C



SECTION B–B



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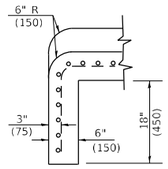

SECTION G–G

GENERAL NOTES

1. GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
2. TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.
3. IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

METHOD OF MEASUREMENT

FOR SECTION A-A TO E-E AND CURTAIN WALL=
1.25 CU. YDS. (0.96 m^3) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.
1.27 CU. YDS. (0.96 m^3) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.
FOR SECTION F-F=
0.045 CU. YDS. (0.03 m^3) CLASS SI CONCRETE PER ft. (m).

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

USER NAME = ivan.diaz	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19	
PLOT DATE = 5/11/2023	DATE - 08-04-86	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OUTLET FOR CONCRETE CURB AND GUTTER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	124
BD600–01	(BD–03)	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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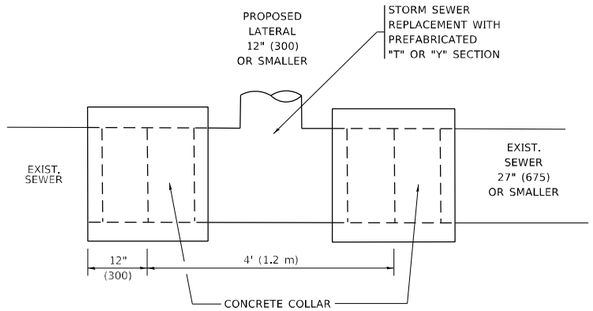
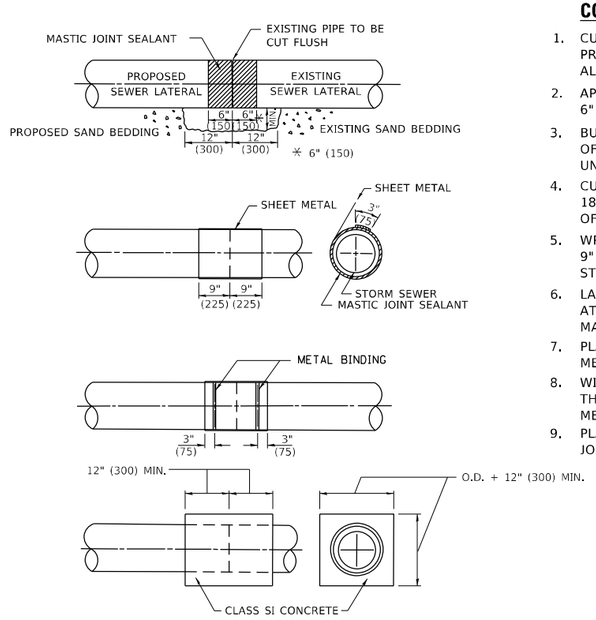


DETAIL "A"

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

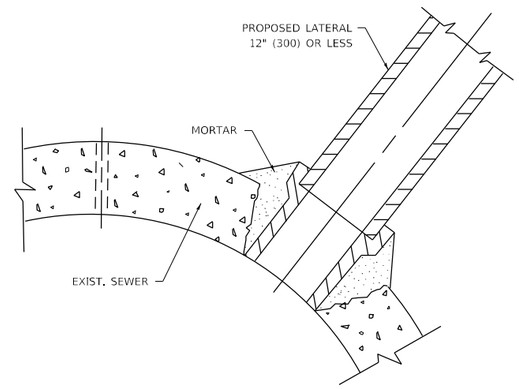


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



DETAIL "C"

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

NOTES:

MATERIAL

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

CONSTRUCTION METHODS

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

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
- A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
- B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
2. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 07-25-90

REVISED - R. SHAH 09-09-94
REVISED - R. SHAH 10-25-94
REVISED - R. SHAH 06-12-96
REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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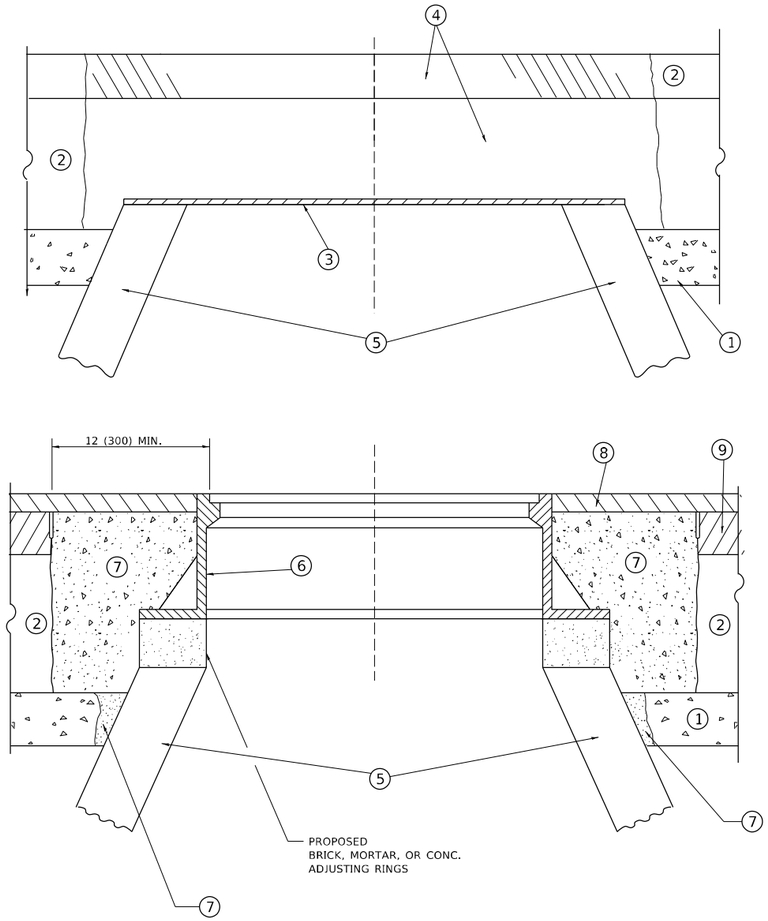
	BD500-01 (BD-07)	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11	
PLOT DATE = 5/11/2023	DATE - 10-25-94	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

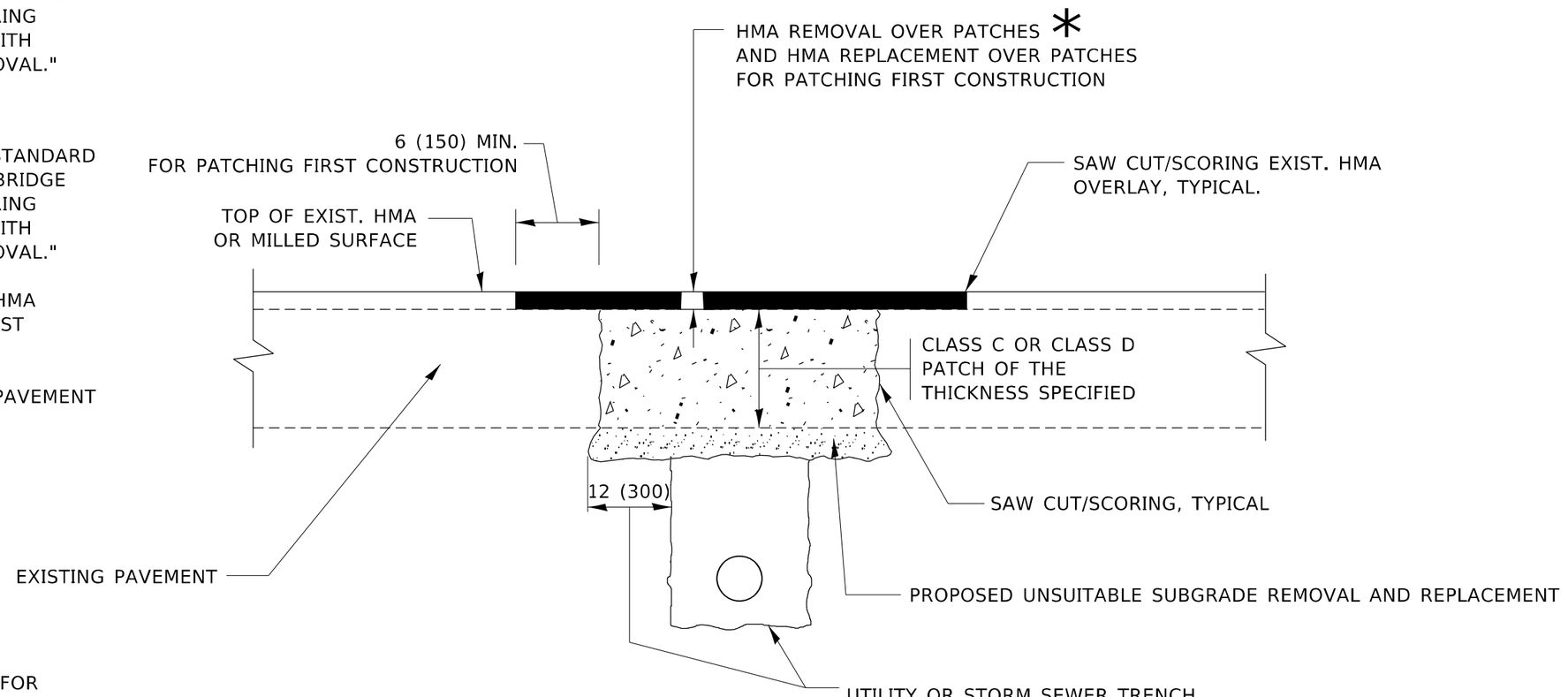
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	126
	BD600–03 (BD–08)	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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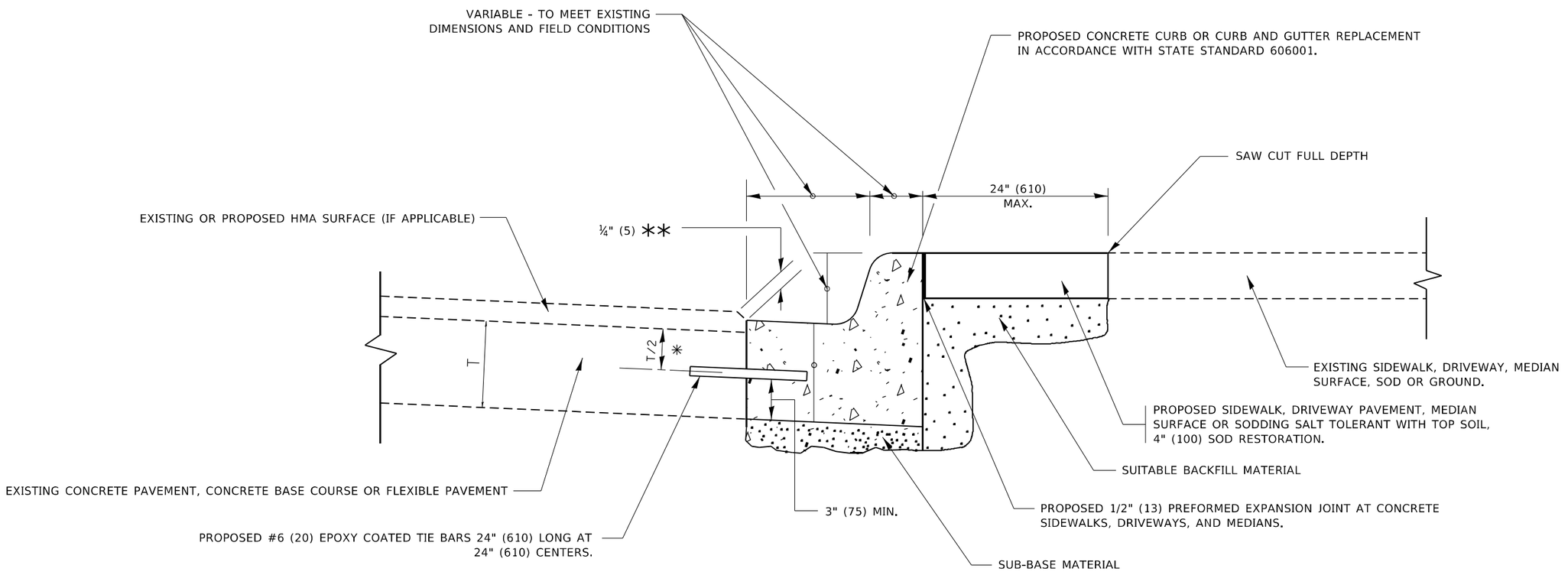
USER NAME = ivan.diaz	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT**	F.A.P. RTE. 333
	DRAWN -	REVISED - R. BORO 09-04-07			SECTION: FA 333 21 INTERSECTION
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08			COUNTY: LAKE
PLOT DATE = 5/11/2023	DATE - 10-25-94	REVISED - K. SMITH 11-18-22		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	TOTAL SHEETS: 157
					SHEET NO.: 127
					BD400-04 (BD-22)
					CONTRACT NO. 62R18
					ILLINOIS FED. AID PROJECT



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

MODEL: Default
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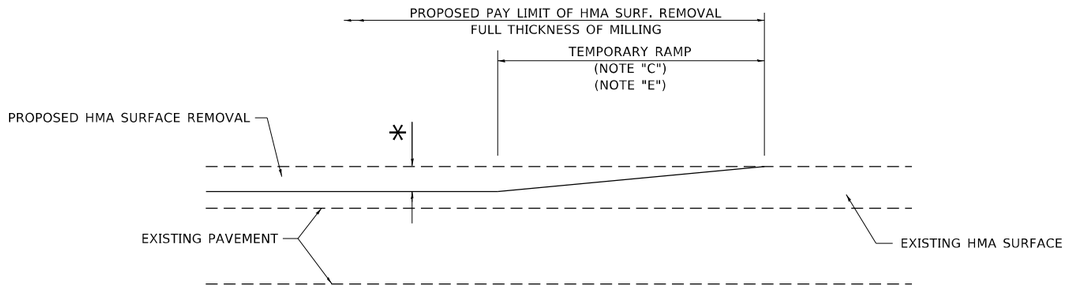
USER NAME = ivan.diaz	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	
	DRAWN -	REVISED - M. GOMEZ 01-22-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09	
PLOT DATE = 5/11/2023	DATE - 03-11-94	REVISED - K. SMITH 07-11-19	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

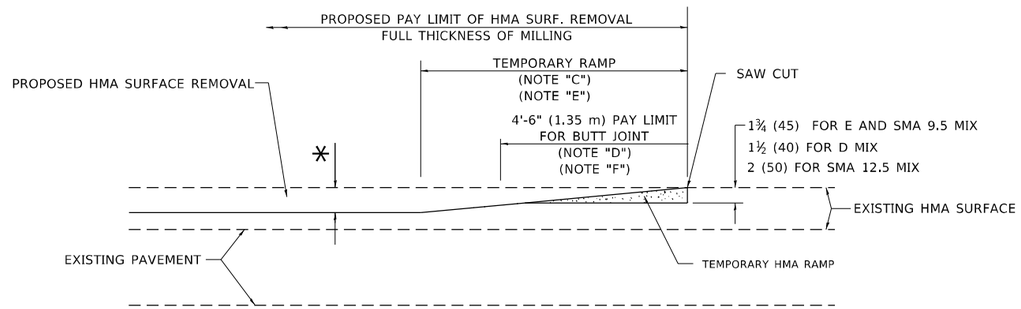
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	128
	BD600–06 (BD–24)	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

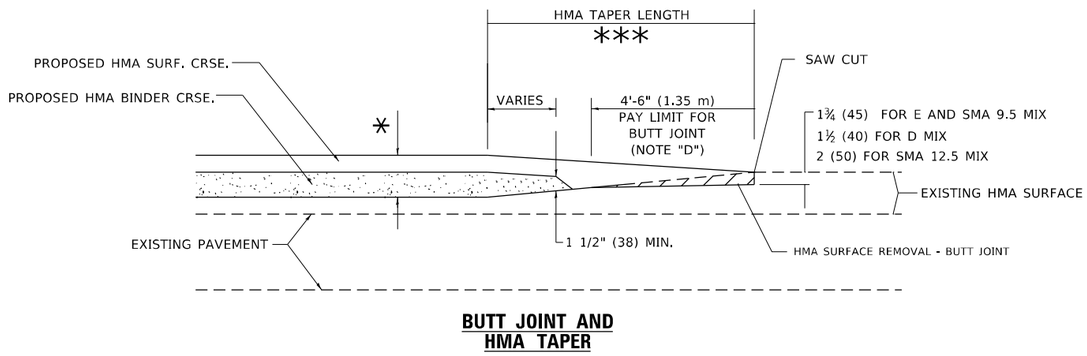


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

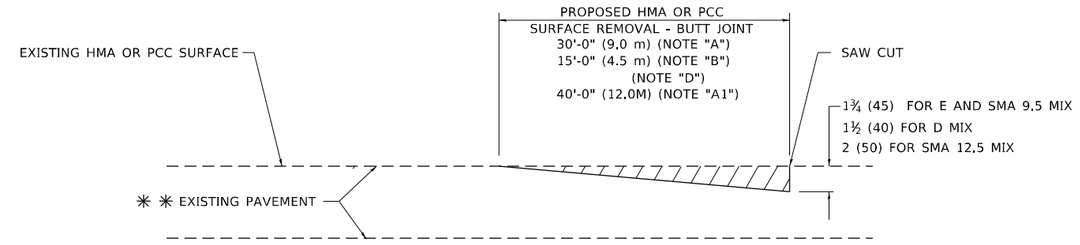
OPTION 2

TYPICAL TEMPORARY RAMP

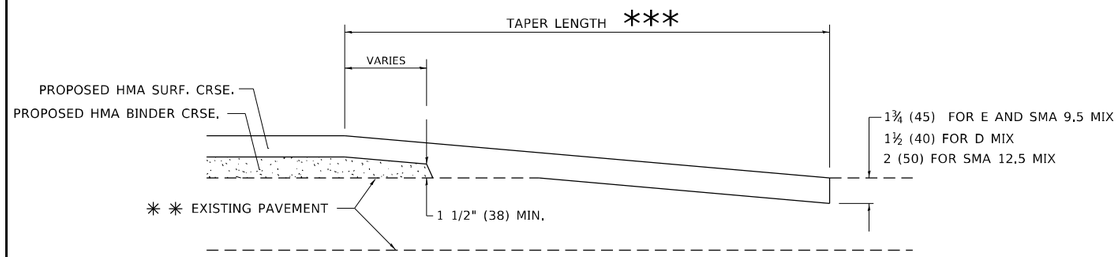


BUTT JOINT AND HMA TAPER

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.

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. 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

1. 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".

2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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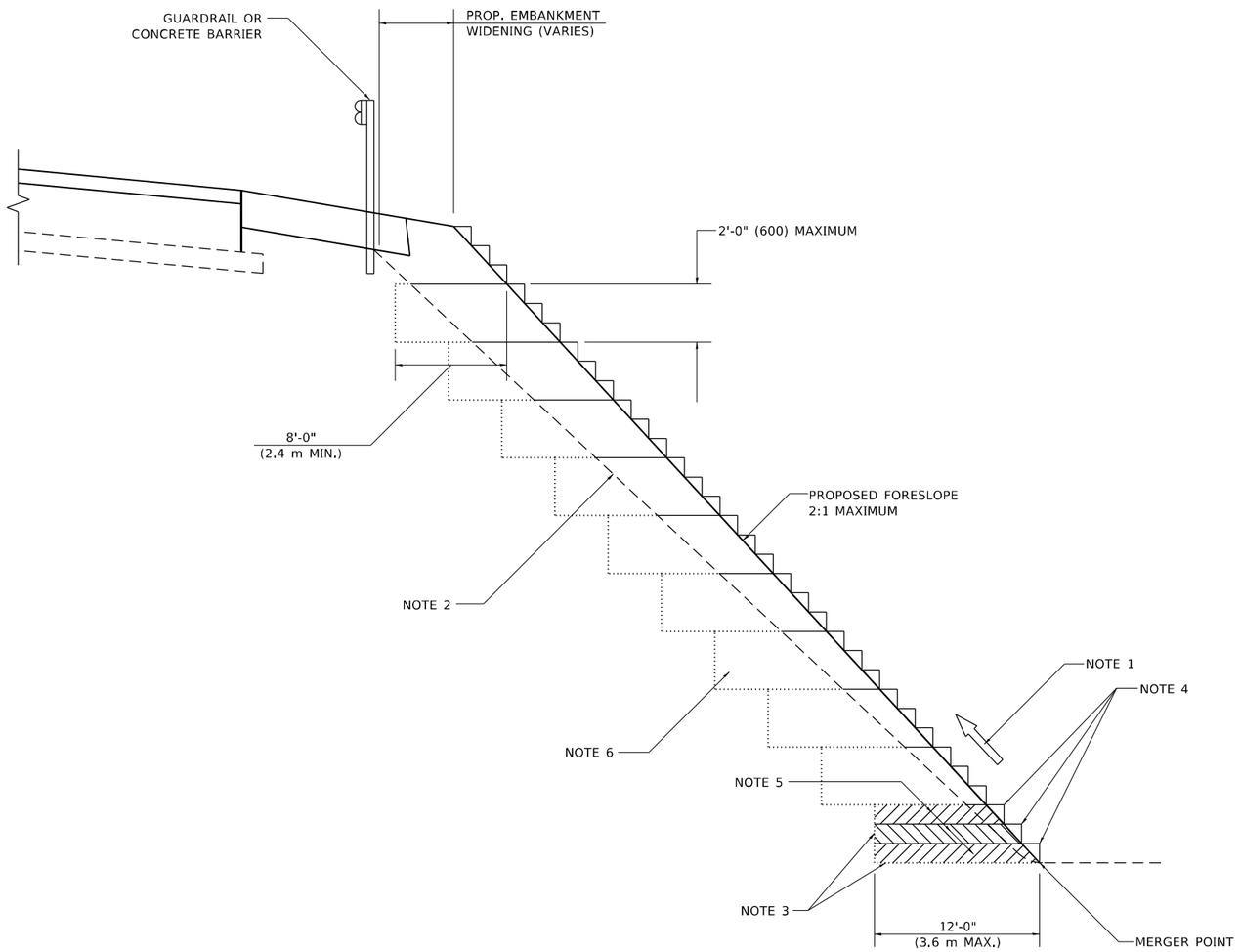
USER NAME = ivan.diaz	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97	
	DRAWN -	REVISED - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 5/11/2023	DATE - 06-13-90	REVISED - K. SMITH 11-18-22	

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.
333	FA 333 21 INTERSECTION	LAKE	157	129
	BD400-05 BD-32	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



TYPICAL BENCHING DETAIL FOR EMBANKMENT

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\P126814\CADData\Design\DistStd.dgn

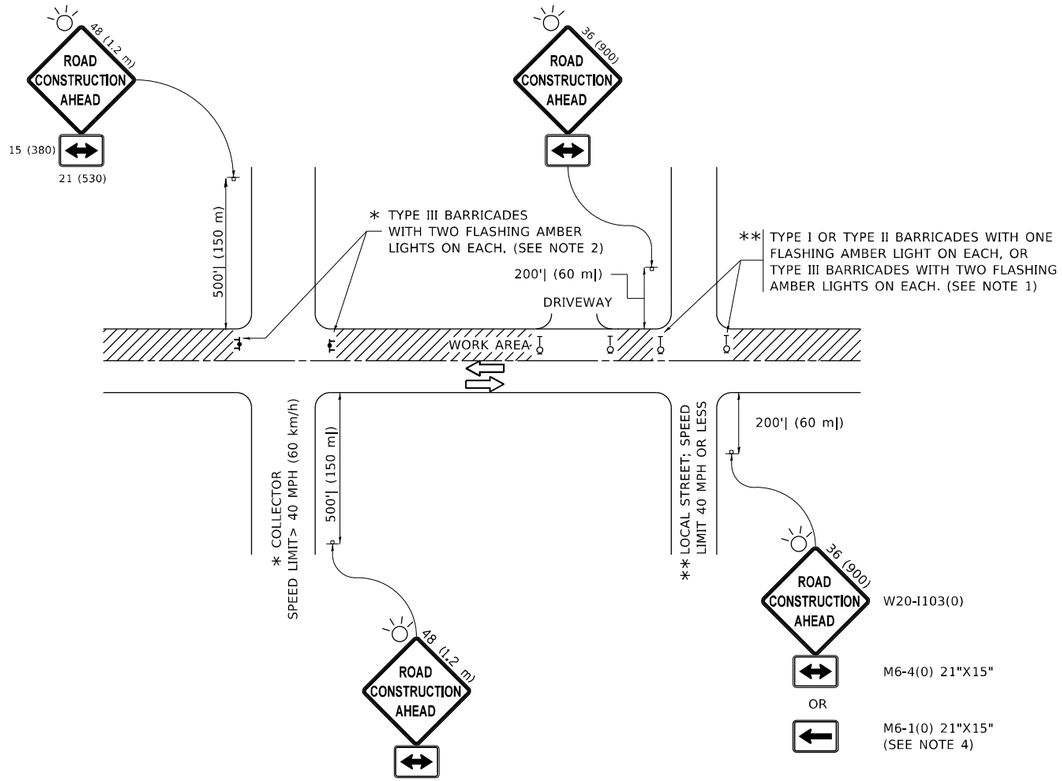
USER NAME = ivan.diaz	DESIGNED -	REVISED - K. SMITH 11-18-22	
	DRAWN - CADD	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - S.E.B.	REVISED -	
PLOT DATE = 5/11/2023	DATE - 06-16-04	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT WIDENING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	130
	BD-51	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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 = ivan.diaz	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 5/11/2023	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.
333	FA 333 21 INTERSECTION	LAKE	157	131
	TC-10	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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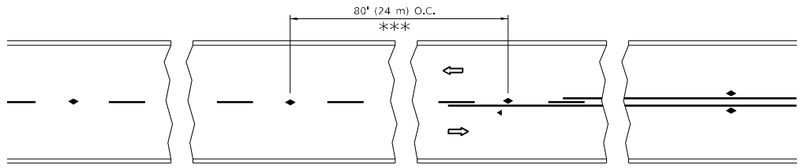
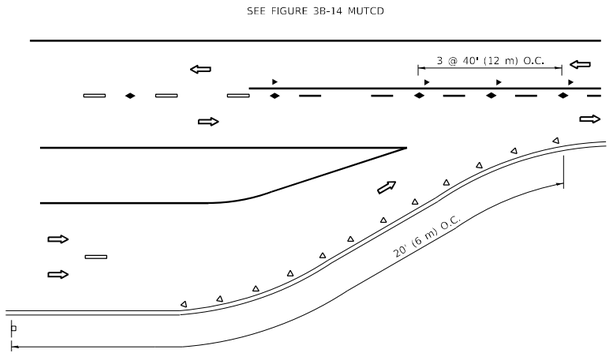


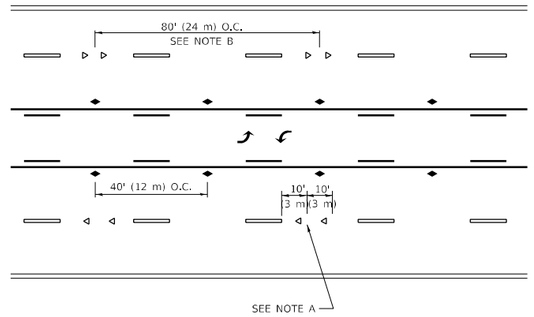
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

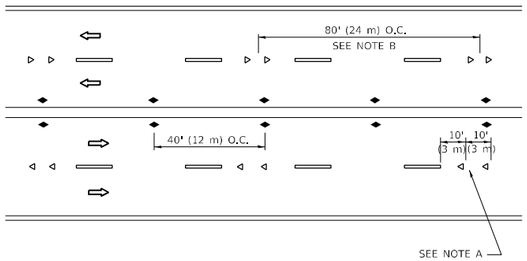
SEE FIGURE 3B-14 MUTCD



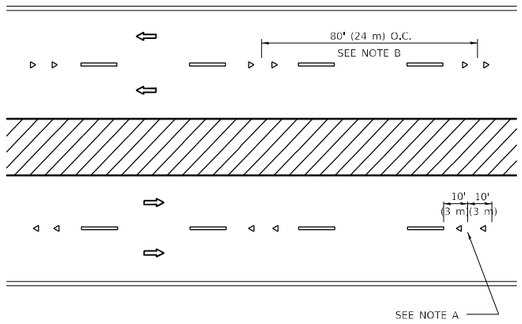
LANE REDUCTION TRANSITION



TWO–WAY LEFT TURN



MULTI–LANE/UNDIVIDED



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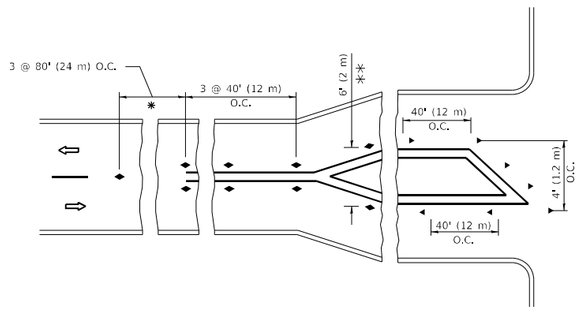

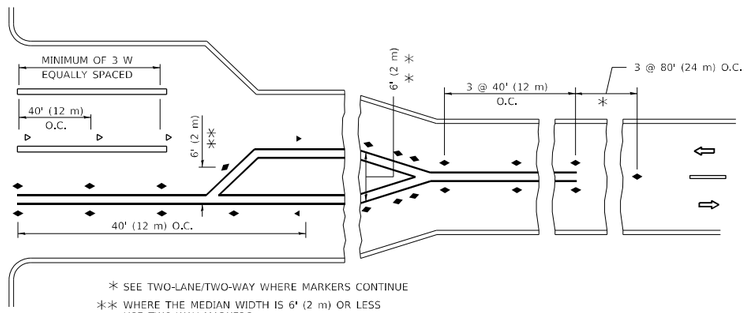

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** 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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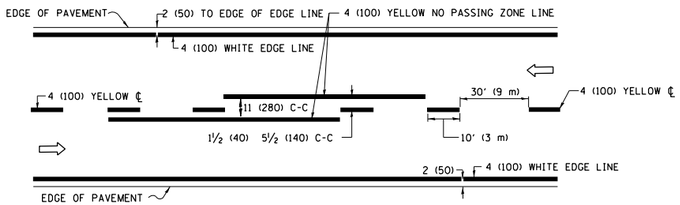
USER NAME = ivan.diaz	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09	
PLOT DATE = 5/11/2023	DATE -	REVISED - C. JUCIUS 07-01-13	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

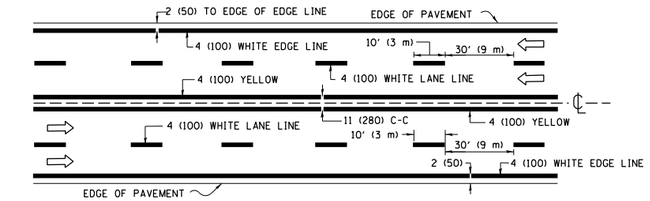
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

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

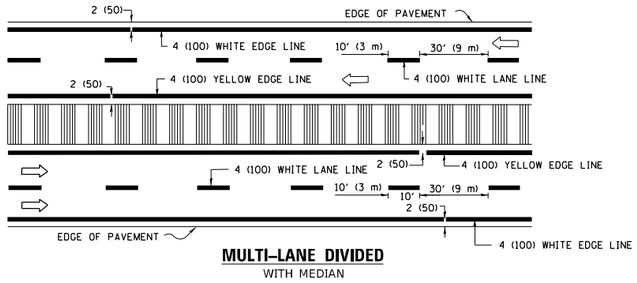
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	132
	TC–11	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



2–LANE ROADWAY

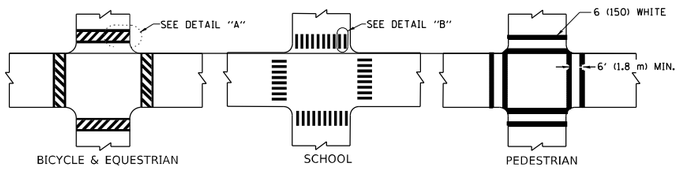


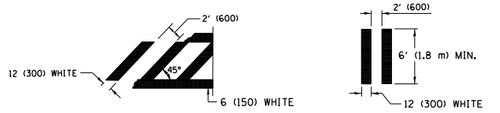
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

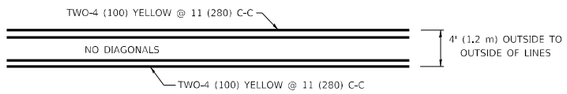




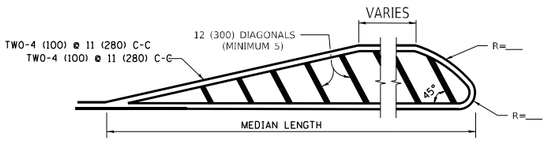
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



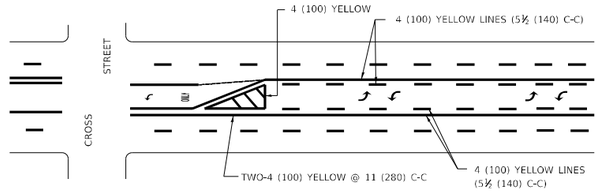
4' (1.2 m) WIDE MEDIANS ONLY



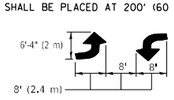
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

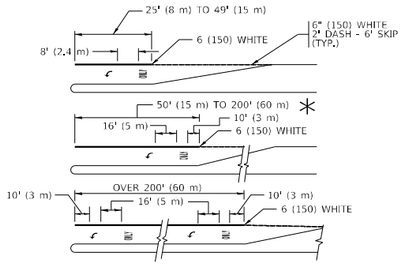


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

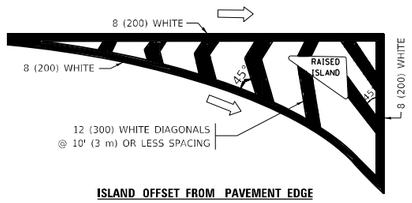


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

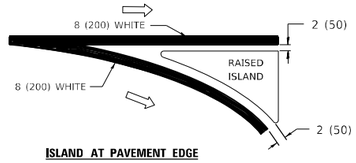
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

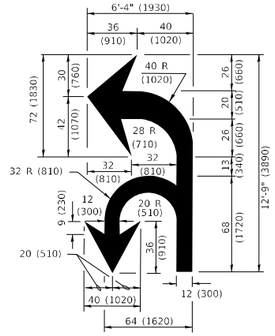


ISLAND OFFSET FROM PAVEMENT EDGE

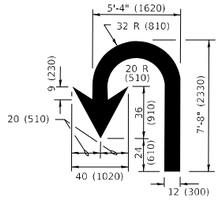


ISLAND AT PAVEMENT EDGE

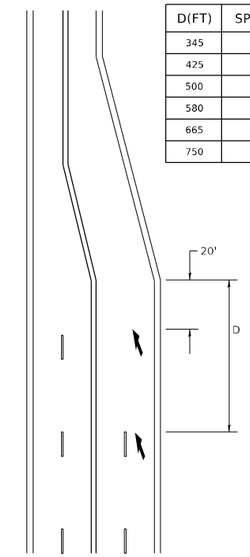
TYPICAL ISLAND MARKING



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 m ² EACH "X"=54.0 SQ. FT. (5.0 m ²
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.

MODEL: Default
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USER NAME = ivan.diaz	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	
	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 5/11/2023	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.
333	FA 333 21 INTERSECTION	LAKE	157	133
	TC–13	CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

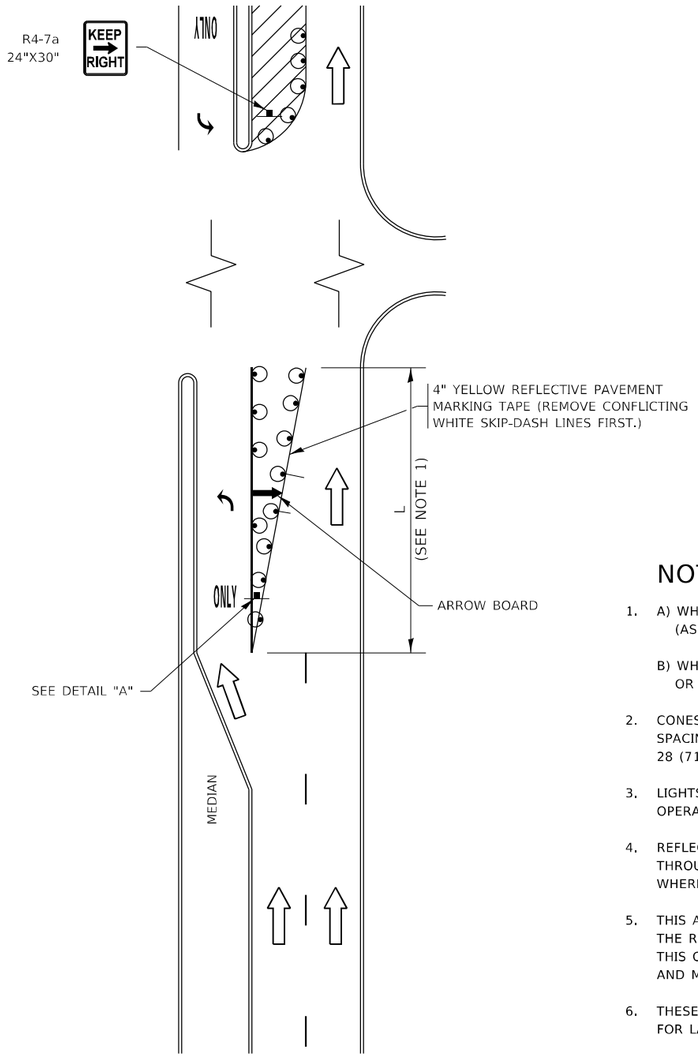


FIGURE 1

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

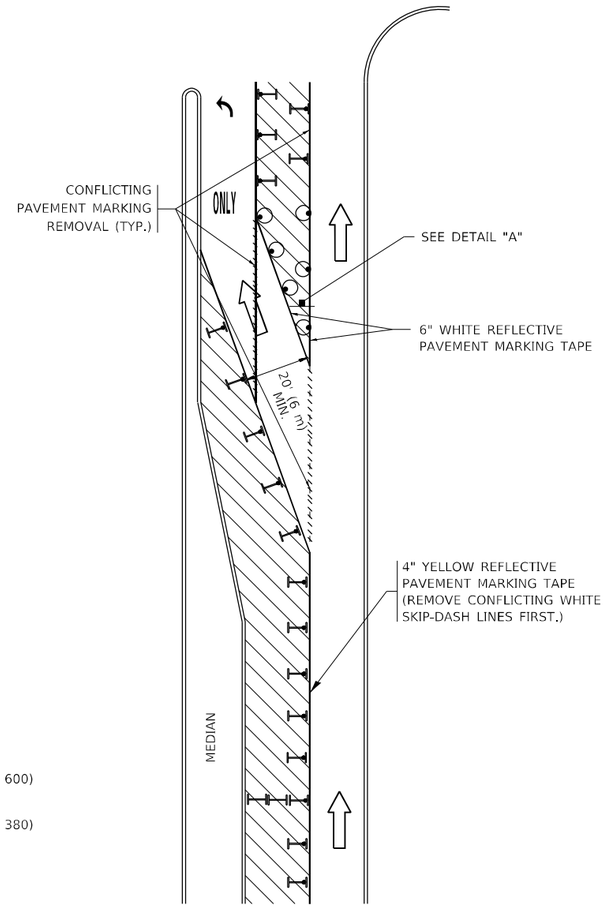
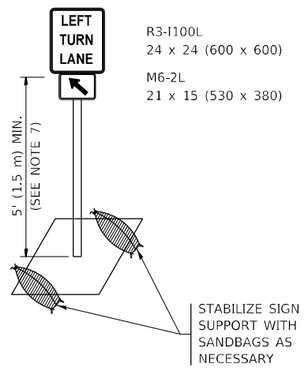


FIGURE 2



DETAIL A

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

USER NAME = ivan.diaz	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 5/11/2023	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.
333	FA 333 21 INTERSECTION	LAKE	157	134
	TC-14	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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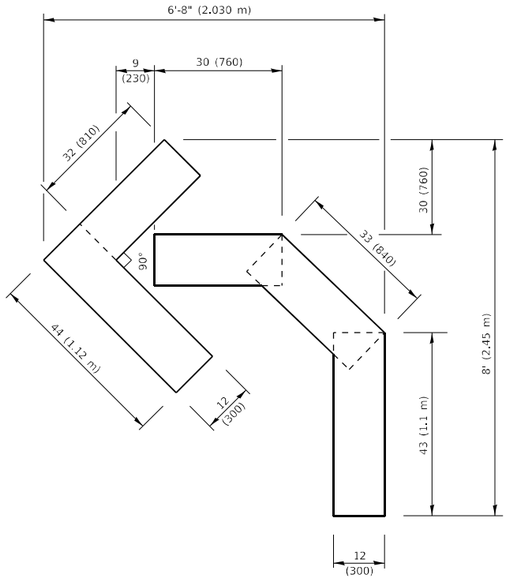
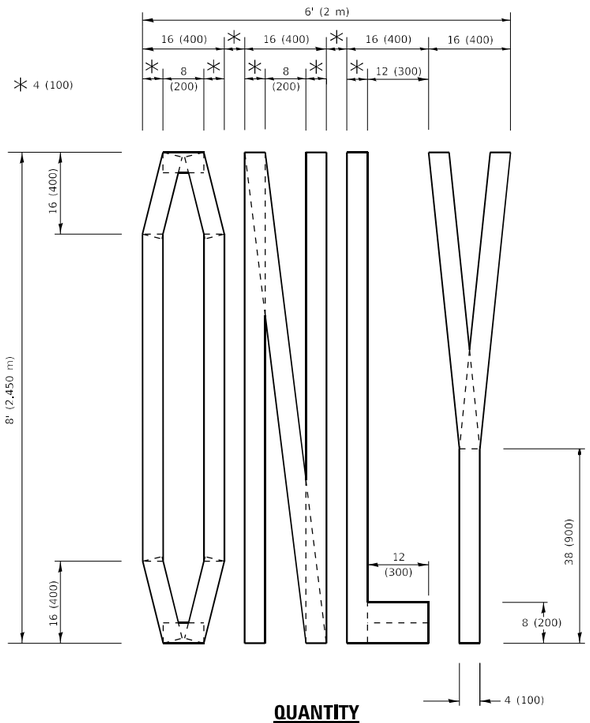


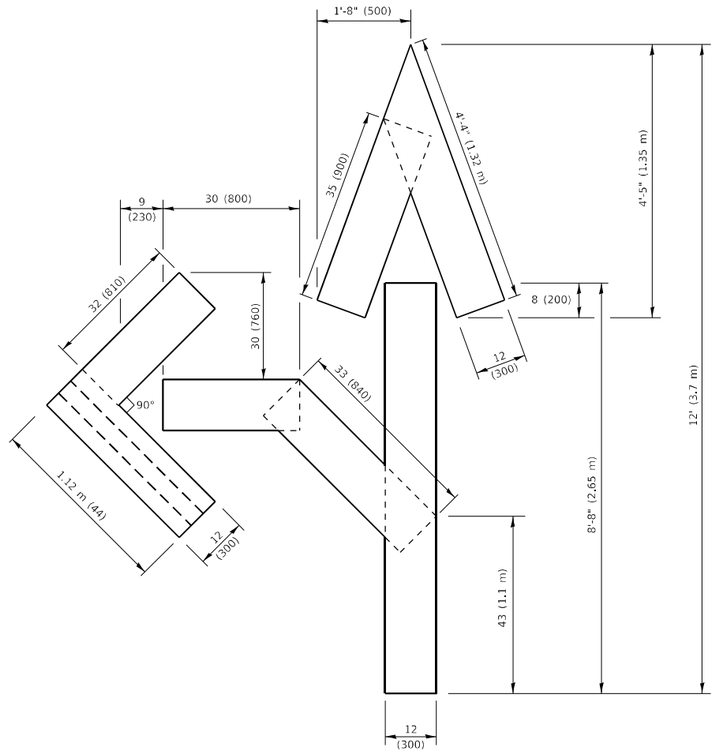
QUANTITY

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)

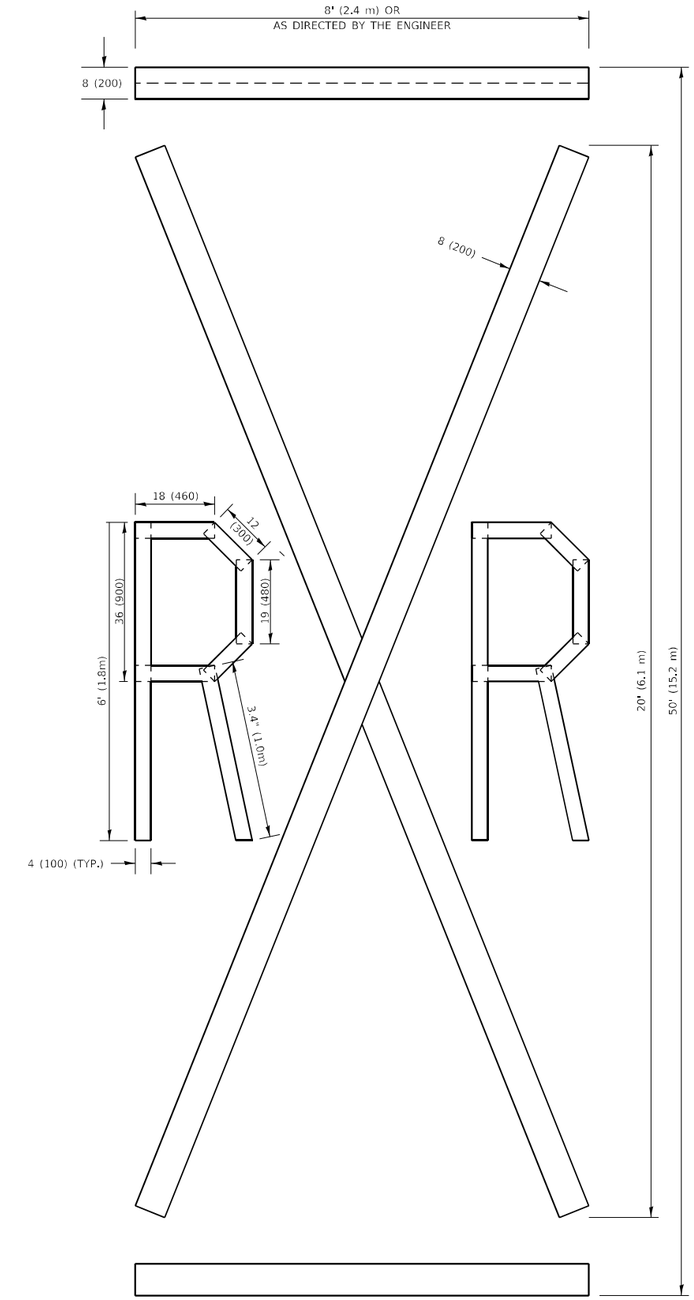


QUANTITY

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.

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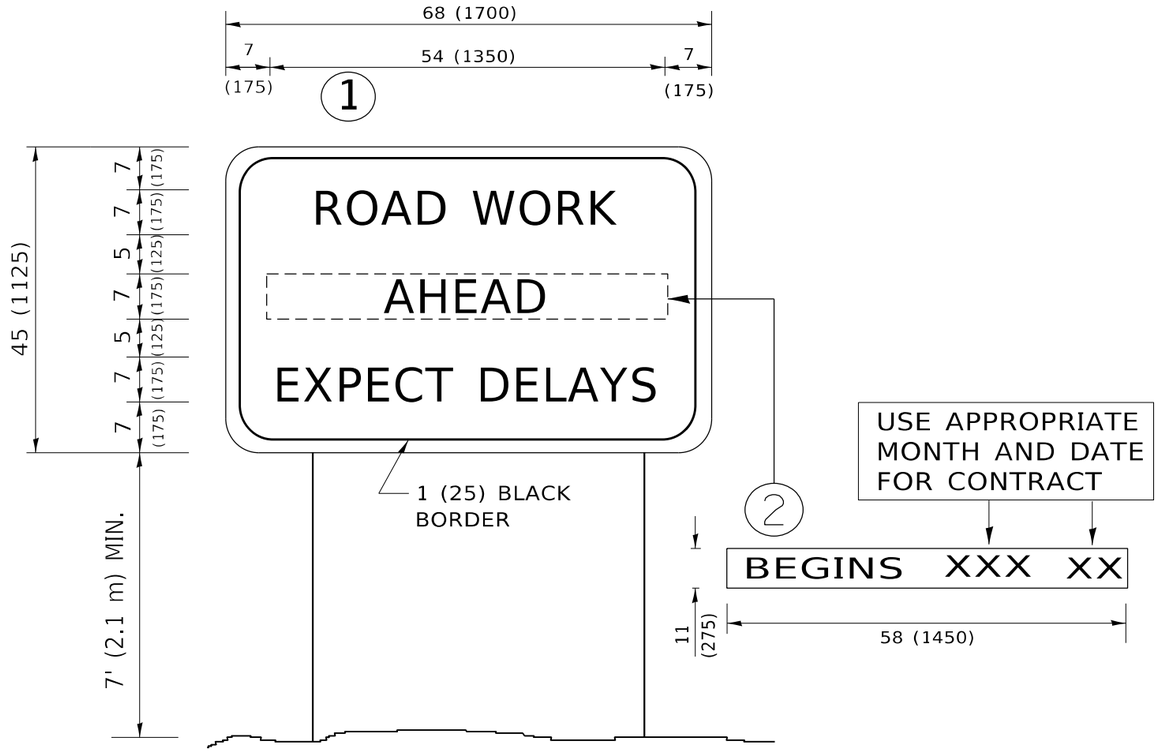
USER NAME = ivan.diaz	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 5/11/2023	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

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.
333	FA 333 21 INTERSECTION	LAKE	157	135
	TC-16	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



NOTES:

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

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

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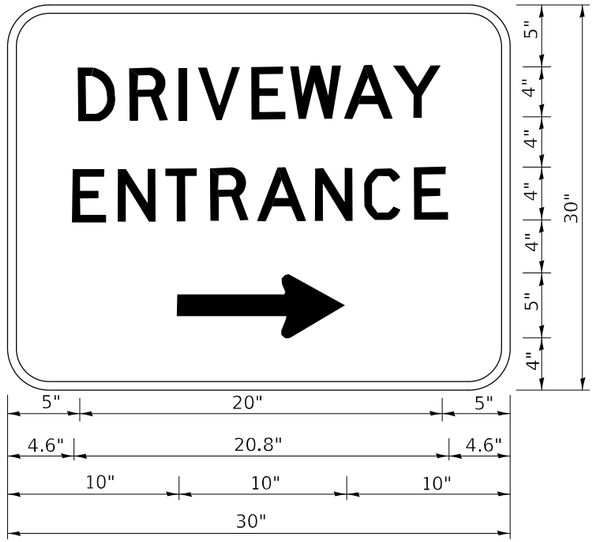
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99
PLOT DATE = 5/11/2023	DATE -	REVISED -	C. JUCIUS 01-31-07

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.
333	FA 333 21 INTERSECTION	LAKE	157	136
	TC-22	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



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

NOTES:

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

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USER NAME = ivan.diaz	DESIGNED -	REVISED - C. JUCIUS 02-15-07	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/11/2023	DATE -	REVISED -	

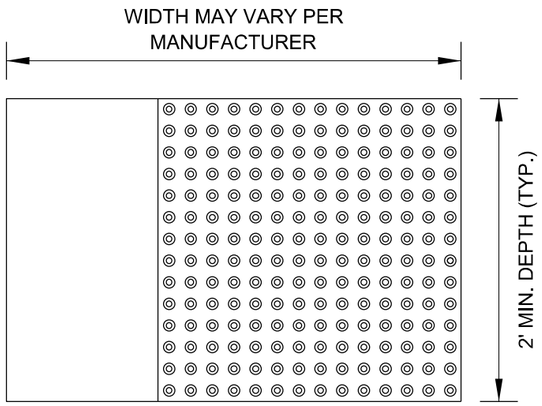
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

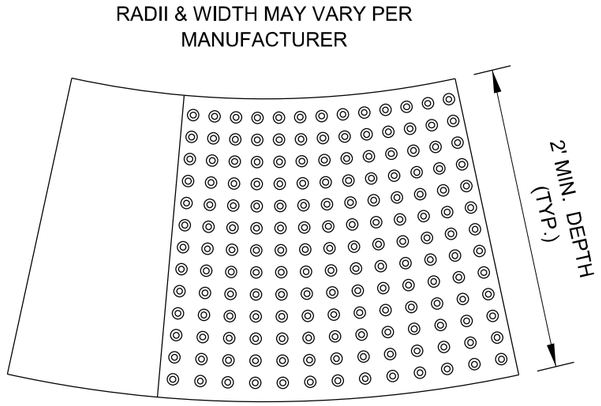
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	137
	TC–26	CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

STRAIGHT DETECTABLE WARNING UNITS



RADIAL DETECTABLE WARNING UNITS

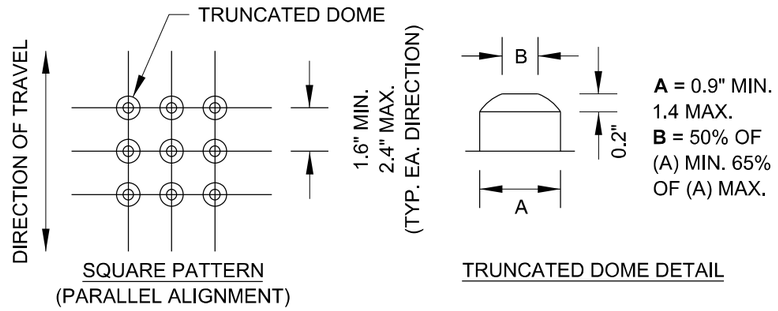


DETECTABLE WARNING UNIT SIZES

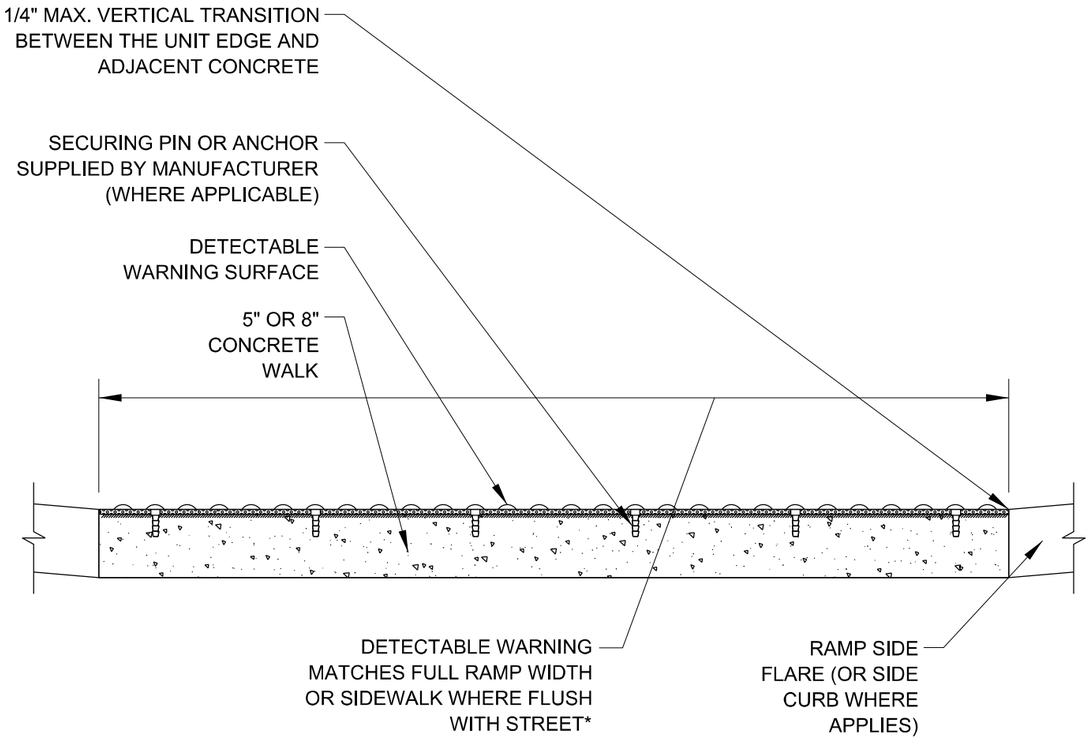
- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.

- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

GENERAL NOTE:
THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



UNIT PATTERN & DOME DETAIL



*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

DETECTABLE WARNING UNIT SECTION

MODEL: Default
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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/11/2023	DATE - 06-20-2017	REVISED -	

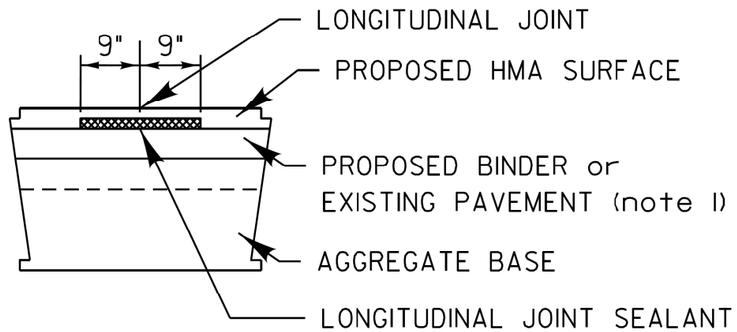
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNINGS

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

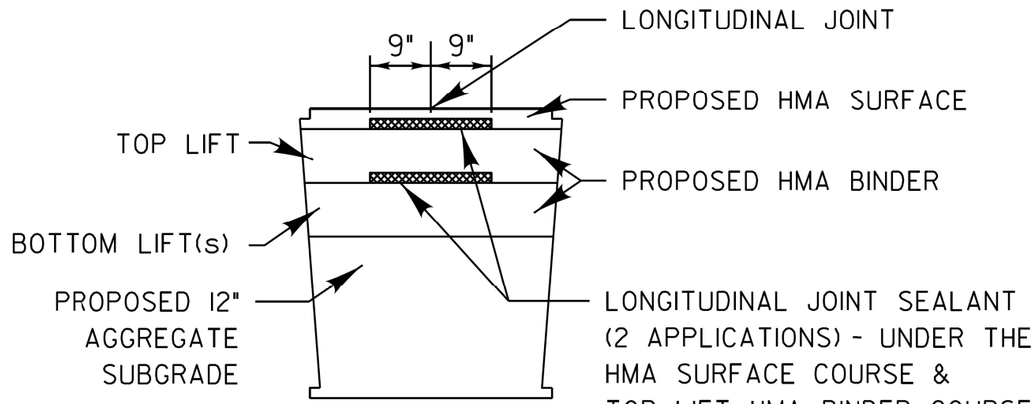
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	138
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

LJS = LONGITUDINAL JOINT SEALANT
RESURFACING SECTION

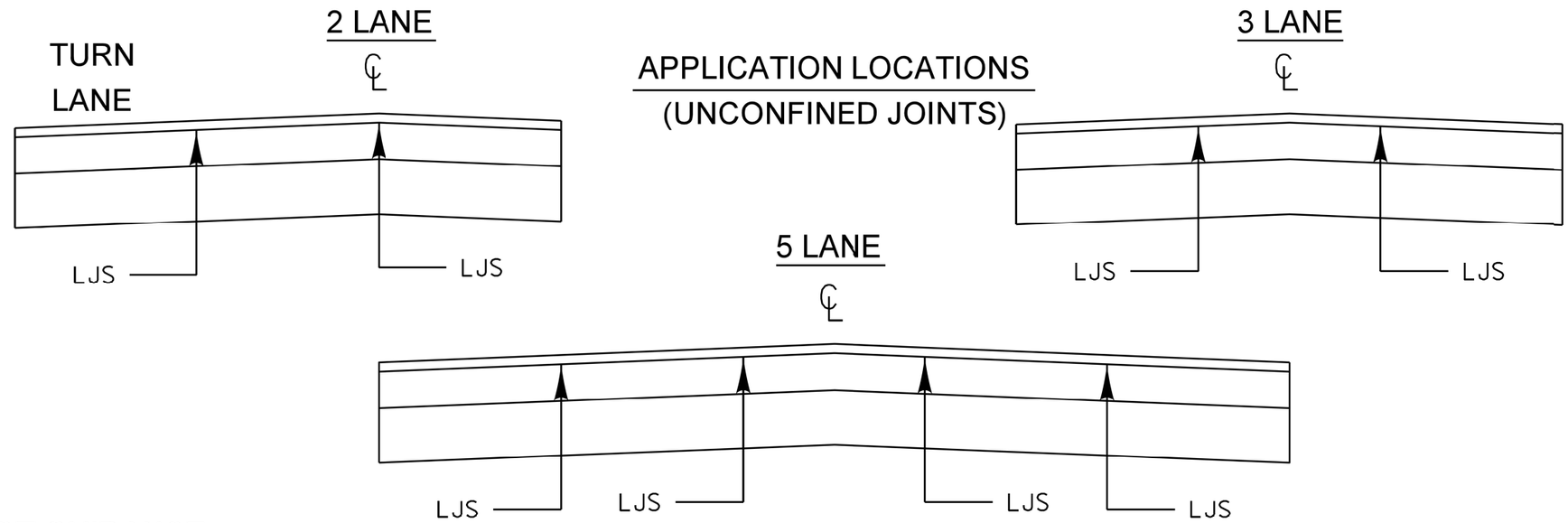


(note 1)
PROPOSED BINDER from
3/4" HMA LEVELING BINDER to
2 1/4" HMA BINDER COURSE

LJS = LONGITUDINAL JOINT SEALANT
RECONSTRUCTION SECTION



APPLICATION LOCATIONS
(UNCONFINED JOINTS)



IDOT GUIDANCE

Full-Depth HMA Pavements

Under the surface lift & Under the top binder lift

HMA Resurfacing

Under the surface lift

REVISIONS	DATE

LakeCounty
Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: OCT 1, 2022

TYPICAL LJS APPLICATION

LC4025

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT LC4025 TYPICAL LJS APPLICATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	139
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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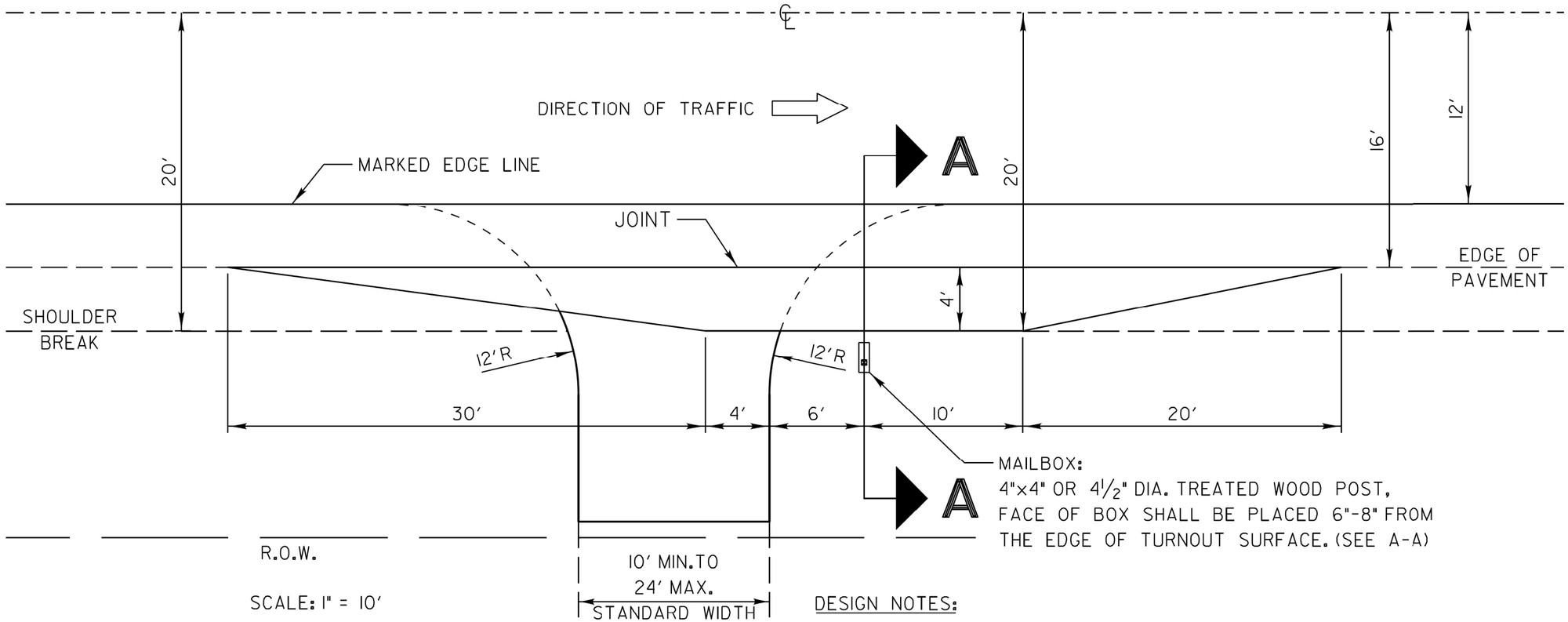
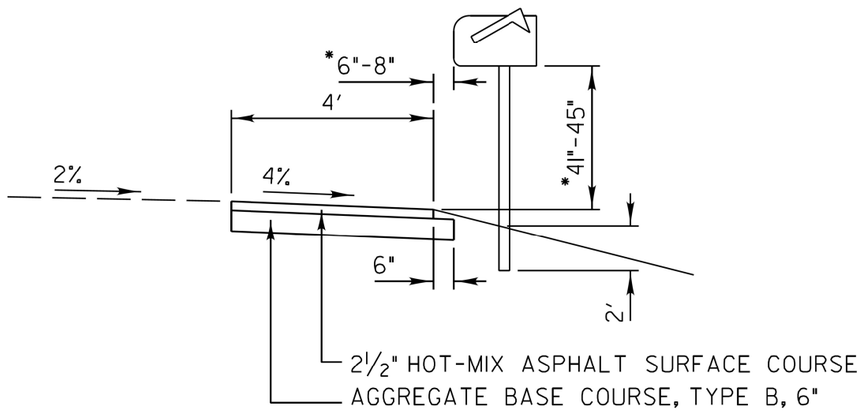


SCALE: 1" = 10'



SECTION A-A

SCALE: 1" = 5'

* USPS RESIDENTIAL MAILBOX STANDARD

DESIGN NOTES:

1. The Resident Engineer shall contact the local postmaster prior to installing the new mailbox posts for the local mounting height of the mailbox. The standard mounting height is 3½'; however, local post- masters may vary this height.
2. The standard mailbox post is a 4"x4" or a 4½" dia. treated wood post. The standard bury length of the post is 2'. Do not shorten or exceed this bury length.
3. Depending on the location of the shoulder break with respect to the edge of the mailbox turnout the overall post length may vary from 5' 8" to 6' 4" to maintain the 2' bury length and the 3½' mounting height.

REVISIONS	DATE
4' PAVED SHOULDER ADDED	9/21/10
6"-8" BOX OFFSET ADDED	12/22/11
Revised Type A to Type B Aggregate	12/20/12

LakeCounty
Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

MAILBOX TURNOUT ALONG UNCURBED ROADS

LC4120

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT 4120 MAILBOX TURNOUT ALONG UNCURBED ROADS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	140
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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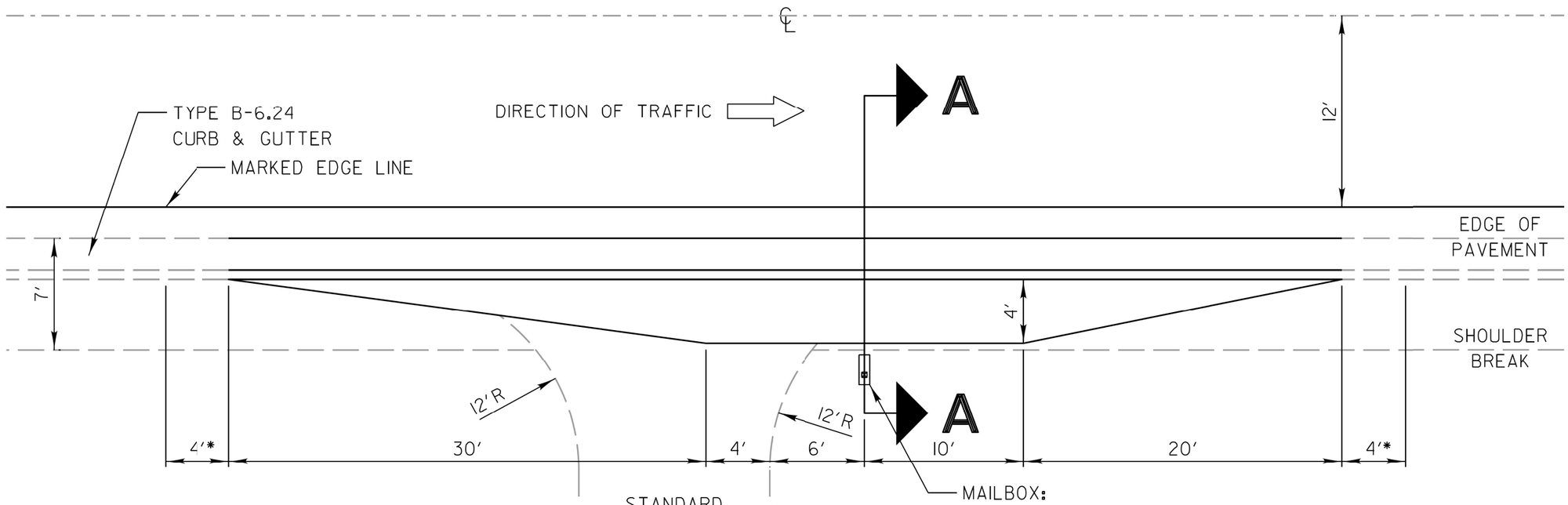
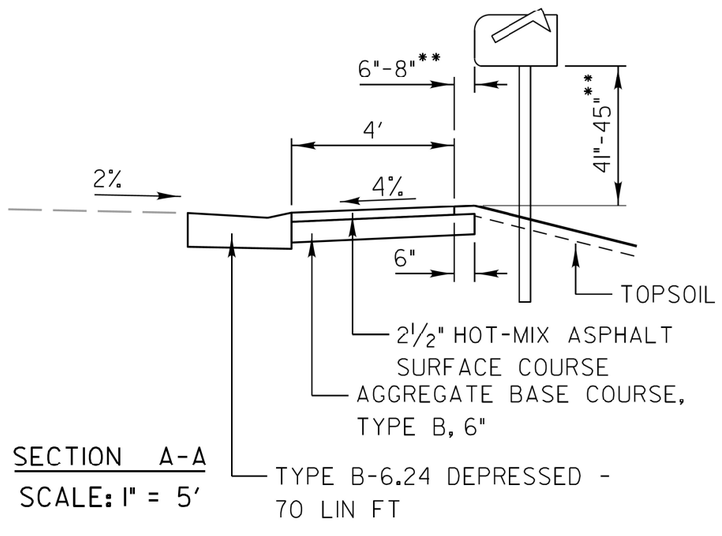


*CURB TRANSITION EACH END TO BE PAID FOR AT THE CONTRACT UNIT PRICE FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.



SECTION A-A
SCALE: 1" = 5'

** USPS RESIDENTIAL MAILBOX STANDARD

DESIGN NOTES:

1. The Resident Engineer shall contact the local postmaster prior to installing the new mailbox posts for the local mounting height of the mailbox. The standard mounting height is 3½'; however, local post-masters may vary this height.
2. The standard mailbox post is a 4"x4" or a 4½" dia. treated wood post. The standard bury length of the post is 2'. Do not shorten or exceed this bury length.
3. Depending on the location of the shoulder break with respect to the edge of the mailbox turnout the overall post length may vary from 5' 8" to 6' 4" to maintain the 2' bury length and the 3½' mounting height.

REVISIONS	DATE
6"-8" BOX OFFSET ADDED	12/22/11
Revised Type A to Type B Aggregate	12/20/12
Revised Curb Transition	1/7/15
Pave Shldr = 3' (all cases)	2/24/2017

LakeCounty
Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

MAILBOX TURNOUT ALONG CURBED ROADS

LC4121

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT LC4121 MAILBOX TURNOUT ALONG CURBED ROADS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	141
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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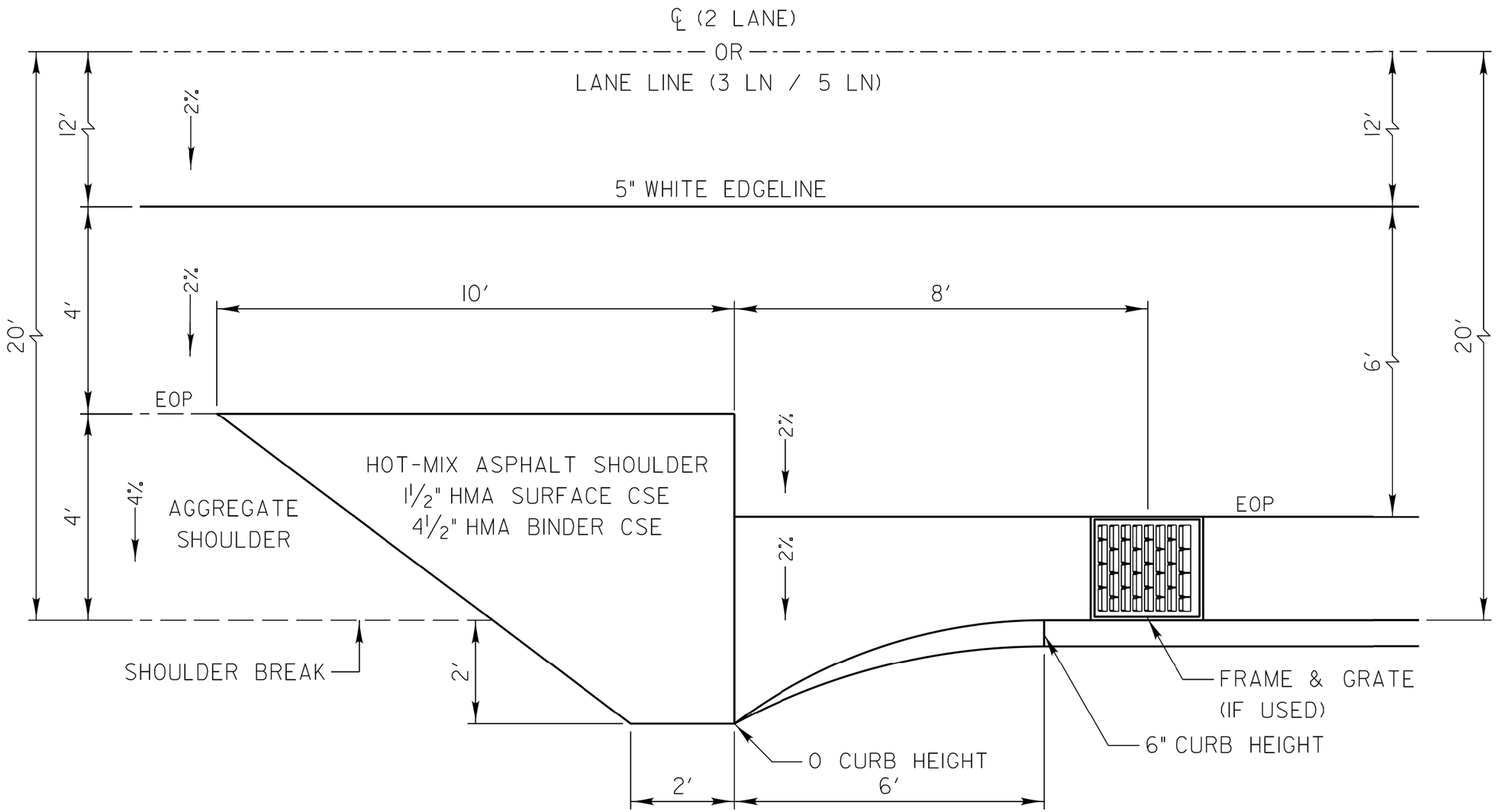


SCALE: 1" = 3′

Note: For use when the
Posted Speed Limit > 45 mph.

REVISIONS	DATE
Revised Shoulder Widths	8/3/2015
Added speed note	4/2/2019

LakeCounty
Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TRANSITION FROM AGGREGATE SHOULDER TO B-6.24 FOR 20' OFFSET TO FACE

LC4802

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT LC4802 TRANSITION FROM AGGREGATE SHOULDER TO B-6.24 FOR 20' OFFSET TO FACE

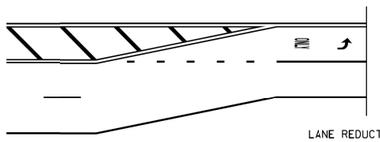
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

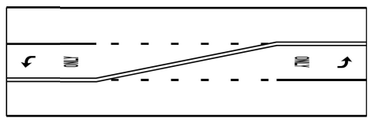
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	142
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

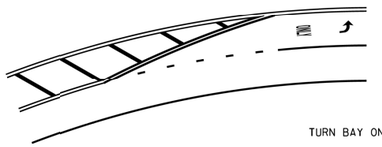
MODEL: Default
FILE NAME: ow:\\dot-pw.bentley.com:PWIDOT Documents\IDOT Offices\District 1\Projects\P126814\CADData\Design\DistStd.dgn

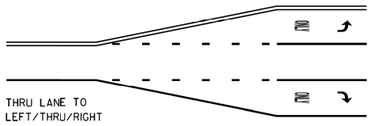
TYPICAL PAVEMENT MARKINGS

TYPICAL MINI-SKIP PAVEMENT MARKINGS



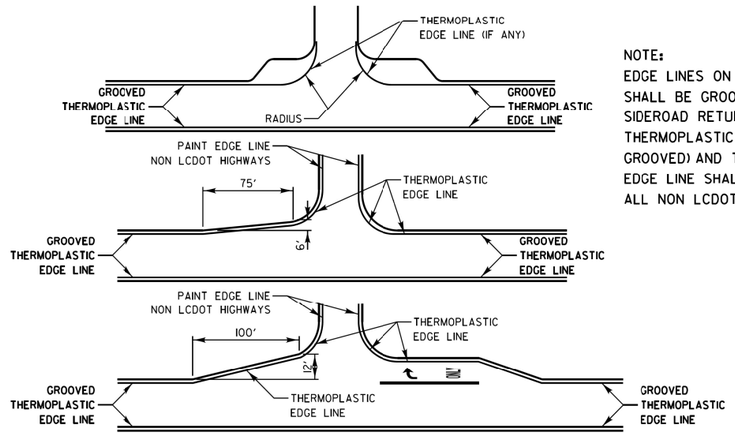






MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

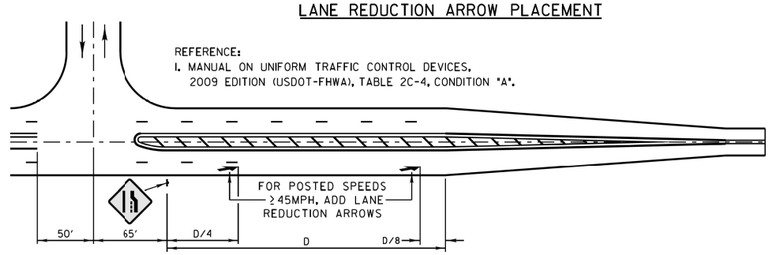
EDGE LINE RADII AT SIDE STREETS



NOTE:
EDGE LINES ON LCDOT HIGHWAYS SHALL BE GROOVED THERMOPLASTIC. SIDEROAD RETURNS SHALL BE A THERMOPLASTIC EDGE LINE (NOT GROOVED) AND THE SIDEROAD EDGE LINE SHALL BE PAINT ON ALL NON LCDOT HIGHWAYS.

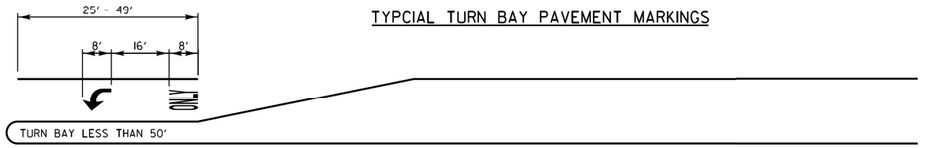
LANE REDUCTION ARROW PLACEMENT

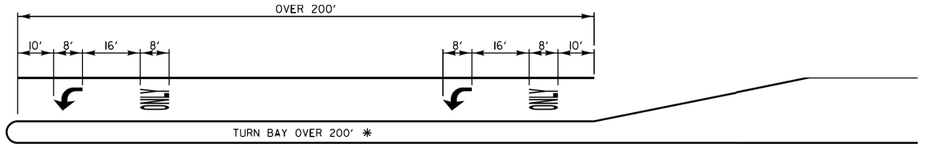
REFERENCE:
1. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION (USDOT-FHWA), TABLE 2C-4, CONDITION "A".



DESIGN SPEED MPH	D (FEET)
<45	VARIES
45	775' (1)
50	885' (1)
55	990' (1)

TYPICAL TURN BAY PAVEMENT MARKINGS





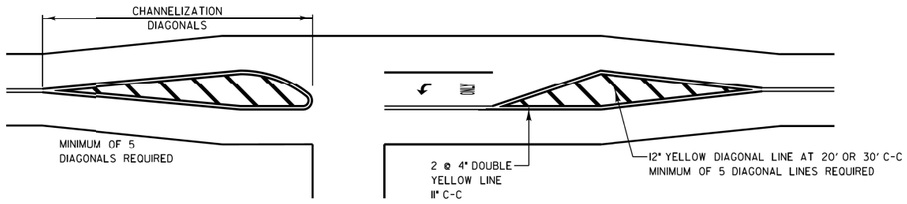
* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

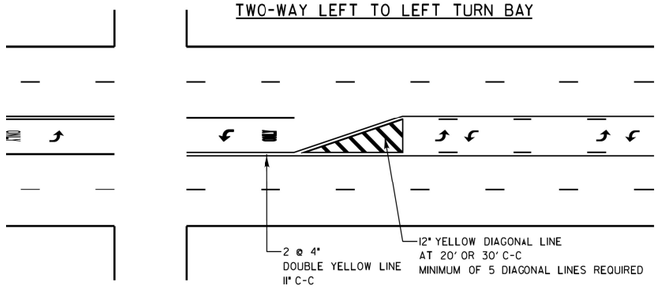
ONLY AREA = 20.8 SQ FT.

FULL SIZE LETTERS (8') AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

TWO LANE ROAD



TWO-WAY LEFT TO LEFT TURN BAY



TYPICAL DIAGONAL SPACING

DIAGONAL SPACING

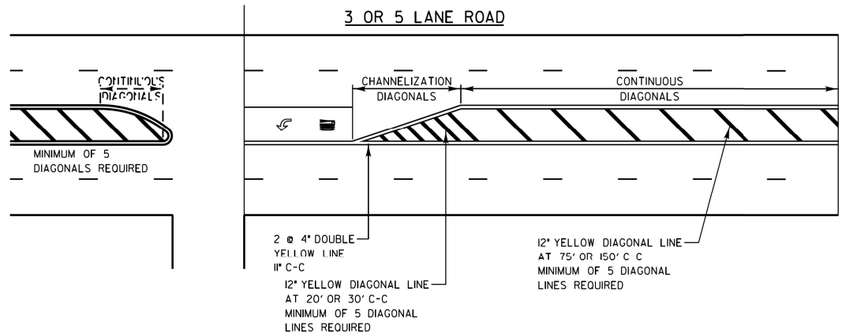
SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

DUAL LEFT TURN ARROWS

31.2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

3 OR 5 LANE ROAD



REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
ADDED LANE REDUCTION ARROWS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOB BAR/DBL YELLOW	8/31/17

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 1 OF 2

LC7800

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

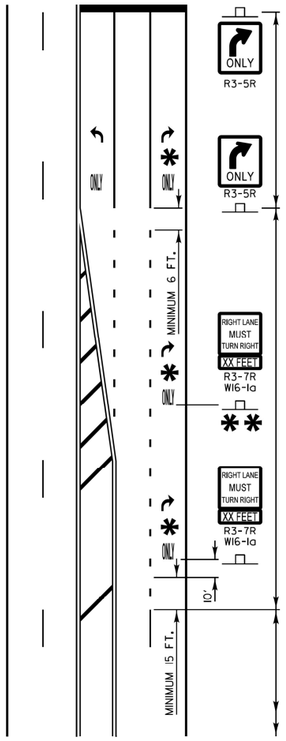
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	143
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

FILE NAME: //vdot-sw.bentley.com:PWIDOT Documents\IDOT Offices\District 1\Project\P120814\CADData\Design\DistStd.dgn

TYPICAL PAVEMENT MARKINGS AND RECESSED PAVEMENT MARKERS

THRU LANE TO TURN LANE CONVERSION



TURN LANE
6" WHITE LINE
(ADDITIONAL PAVEMENT MARKINGS AS SHOWN ON SHEET ONE OF THE L.C.D.O.T TYPICAL PAVEMENT MARKINGS DETAIL SHEETS)

MINIMUM TRANSITION ZONE LENGTH

TRANSITION ZONE
6" WHITE 3'/12' SKIP DASH LANE LINE

POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

* LOCATION OF PAV'T MARKINGS

(MEASURED FROM BEGINNING OF TRANSITION ZONE)

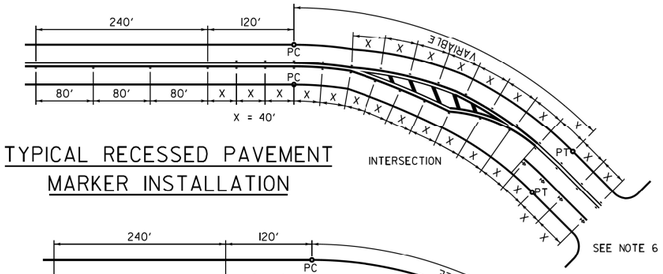
POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

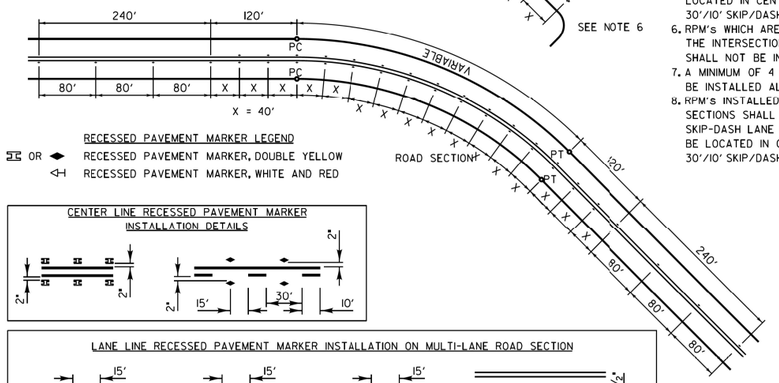
THRU LANE
4 " WHITE 10'/30' SKIP DASH LANE LINE

** FOR POSTED SPEEDS 40 M.P.H. OR GREATER A SECOND R3-7/W16-1a SIGN INSTALLATION SHALL BE LOCATED HALFWAY BETWEEN THE BEGINNING OF THE TRANSITION ZONE AND THE BEGINNING OF THE TURN LANE

PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION / FOR BOTH DIRECTIONS	4 IN. / 2 @ 4 IN.	SOLID / SOLID	YELLOW / YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE 11 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW 11.5 SQ. FT. ONLY 26.8 SQ. FT. COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION / 8 FT. LEFT ARROW	SKIP-DASH AND SOLID / IN PAIRS	YELLOW / WHITE	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE / SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. & 11 IN. C-C 12 IN. DIAGONALS @ 45° NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW: 2-WAY TRAFFIC WHITE: 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE I.D.O.T. STD. 780001 SQ. FT. AREA OF: "R" = 3.6 SQ. FT. / "R" "X" = 54.0 SQ. FT.
SHOULDER DIAGONALS (FOR PAVED SHOULDER ≥ 6 FT.)	12 IN. @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
ALL PAVEMENT MARKINGS TO BE GROOVED THERMOPLASTIC, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER				
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE LATEST I.D.O.T. HIGHWAY STANDARD 78000.				

TYPICAL RECESSED PAVEMENT MARKER INSTALLATION

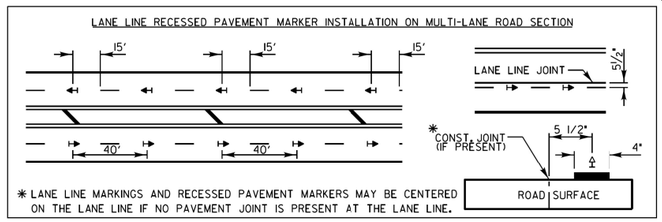




RECESSED PAVEMENT MARKER LEGEND
OR RECESSED PAVEMENT MARKER, DOUBLE YELLOW
RECESSED PAVEMENT MARKER, WHITE AND RED

CENTER LINE RECESSED PAVEMENT MARKER INSTALLATION DETAILS

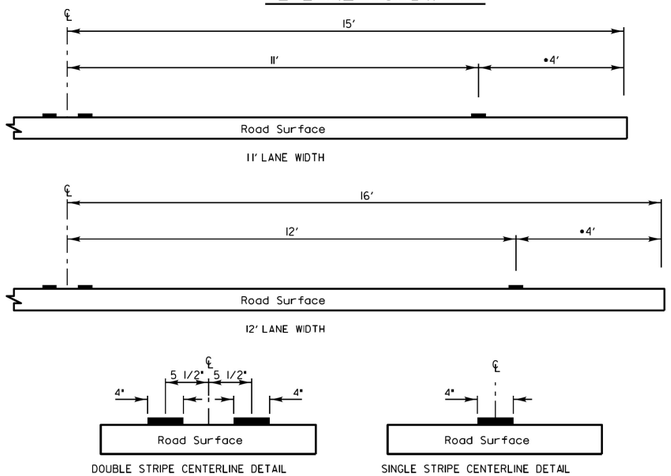
LANE LINE RECESSED PAVEMENT MARKER INSTALLATION ON MULTI-LANE ROAD SECTION



* LANE LINE MARKINGS AND RECESSED PAVEMENT MARKERS MAY BE CENTERED ON THE LANE LINE IF NO PAVEMENT JOINT IS PRESENT AT THE LANE LINE.

RECESSED PAVEMENT MARKER NOTES:
1. CENTERLINE RECESSED PAVEMENT MARKERS (RPM's) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. SPACING = 40' FOR CENTERLINE MARKERS.
3. ALL RPM's ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
4. MARKERS SHALL BE INSTALLED ACCORDING TO F.H.W.A. MEMORANDUM HIO-21.
5. MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
6. RPM's WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
7. A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
8. RPM's INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM's SHALL BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH LANE LINE.

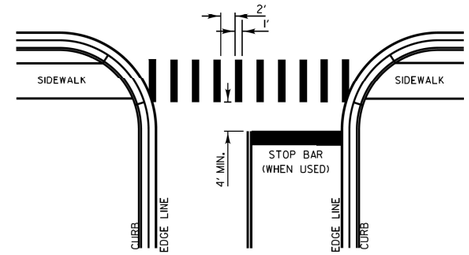
PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



•3' SHOULDER WITH CURB and GUTTER

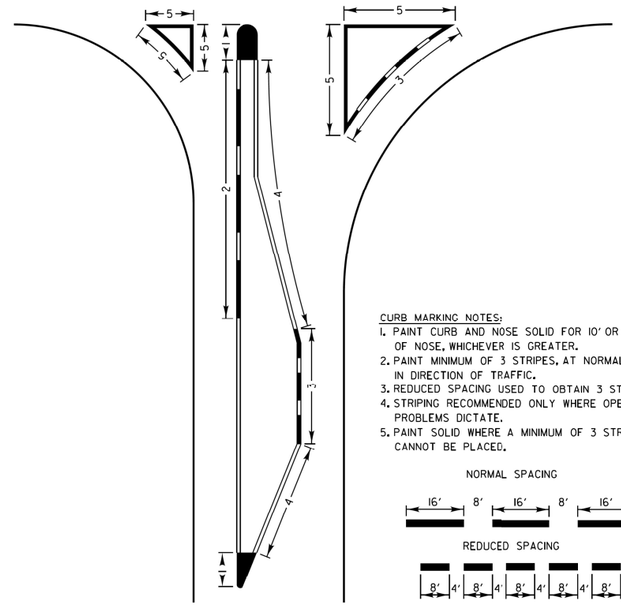
NOTE:
CENTERLINE MARKINGS ARE 4" LINES AT 11" CENTERS.

CROSSWALKS



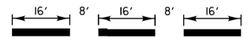
CROSSWALK NOTES:
1. THE WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND MULTIUSE PATH CROSSINGS, WHICH CAN BE 8' OR 10' WIDE.
2. THE STOP BAR SHALL BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING



CURB MARKING NOTES:
1. PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

NORMAL SPACING



REDUCED SPACING

REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
REVISED RPM DETAILS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOP BAR/DBL YELLOW	8/31/17

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 2 OF 2

LC7800

FILE NAME: awu\\dot-gw.be.ky.com\PW\IDOT\Documents\IDOT Offices\District 1\Projects\P12681A\CADD\dataDesign\DistStd.dgn

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	DRAWN -	REVISED -	
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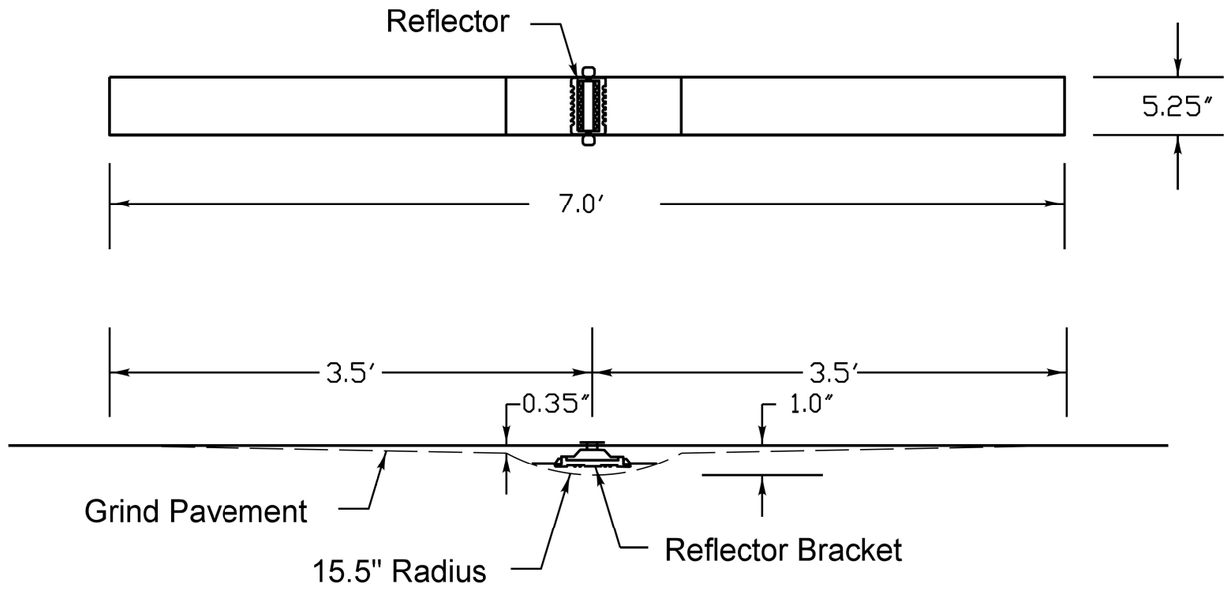
PLOT DATE = 5/11/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	144
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			



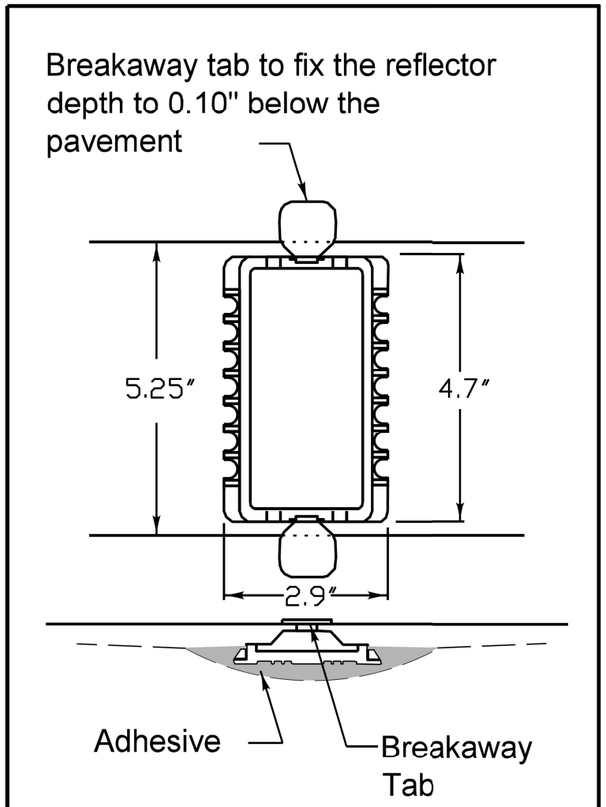
Notes

1. The reflective pavement marker lens shall be a 3M 190 series pavement marker or an approved equal.

2. The reflector bracket shall be made of a polycarbonate and shall be a MarkerOne Series R100 or an approved equal.

3. The adhesive used shall meet the requirements of AASHTO M237 specification for adhesives to be used in cementing asphalt surfaces.

4. Markers shall be placed at 40' intervals on lane lines and painted medians and 40' intervals on curves and approaching intersections as shown on LCDOT standard LC7800.



Reflector Bracket Detail

REVISIONS	DATE

LakeCounty
Division of Transportation

APPROVED BY: JN
DATE: 12/02/13

RECESSED REFLECTIVE PAVEMENT MARKER

LC7805

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT LC7805 RECESSED REFLECTIVE PAVEMENT MARKER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	145
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

760 755 750 745

R.O.W.

IL. RTE. 120 ℄

125.2'

100.0'

8' 23.87' 7.19' 12.39' 13.36' 6.22' 23.51' 8'

4% 1.5% 0.5% 9% 4:1 4:1 4:1 6:1 6:1 4:1 1.5% 1.0% 0.5% 4% 3.8:1 5:1

749.37

R.O.W.

43+00.00

760 755 750

IL. RTE. 120

750.02

42+00.00

760 755 750

IL. RTE. 120

750.76

41+00.00

760 755 750

IL. RTE. 120

750.81

40+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

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

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

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. 40+00.00 TO STA. 43+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	146
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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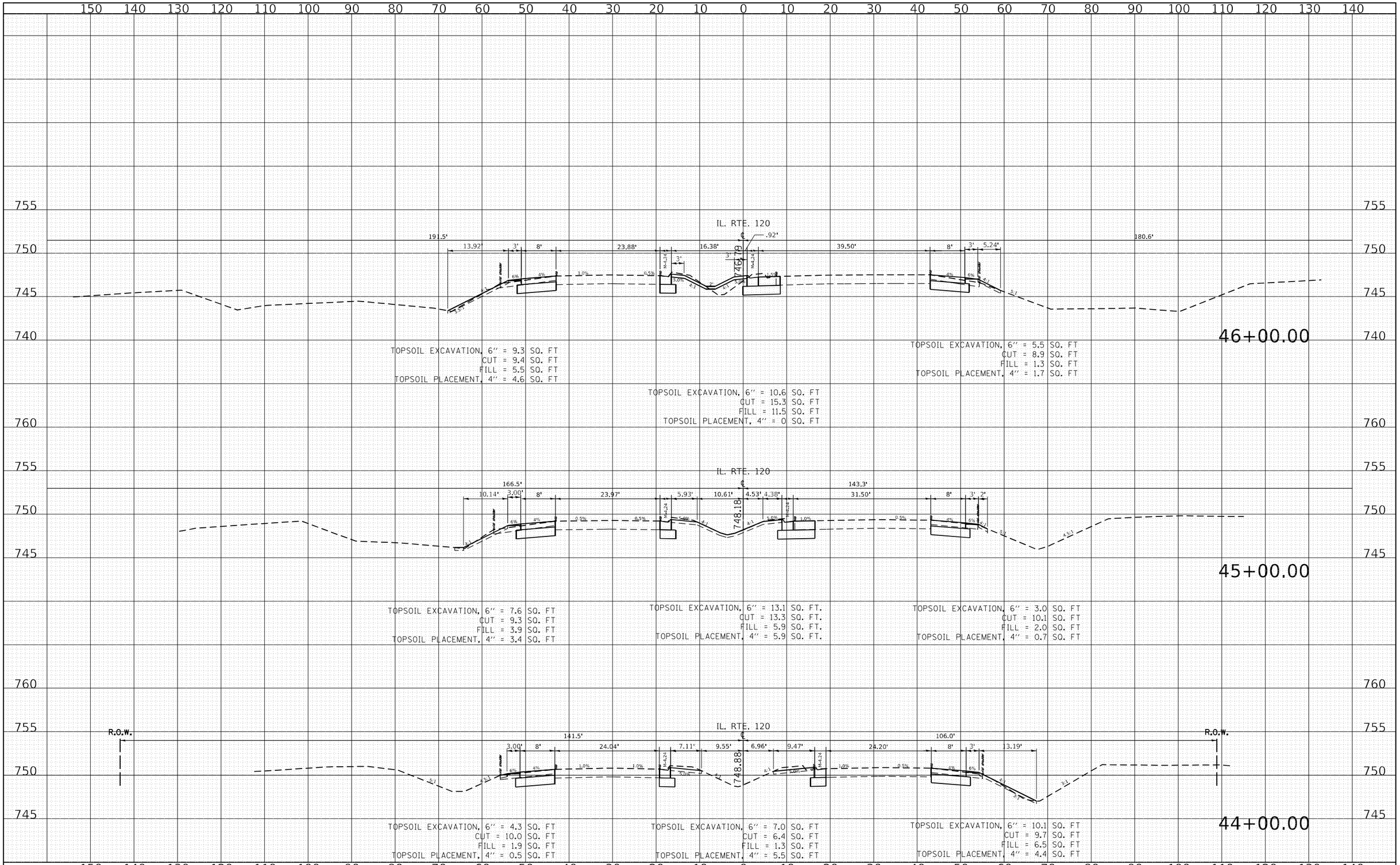
NO.		AREAS CHECKED	DATE



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		TEMPLATE	
		AREAS	
NO.		AREAS CHECKED	DATE

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		DATE -	REVISED -

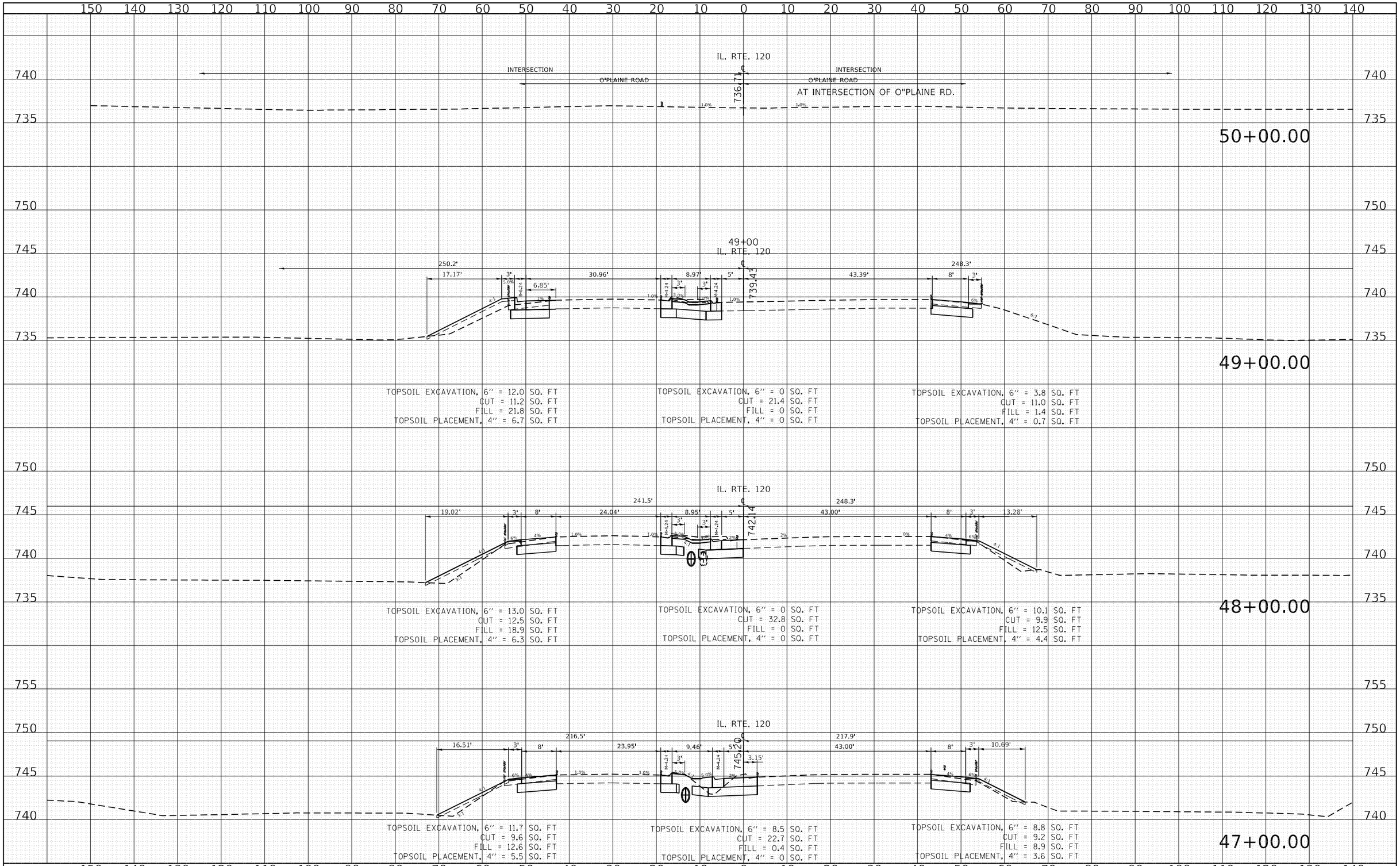
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. 44+00.00 | TO STA. 46+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	147
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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



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CUT = 11.2 SQ. FT
FILL = 21.8 SQ. FT
TOPSOIL PLACEMENT, 4" = 6.7 SQ. FT

TOPSOIL EXCAVATION, 6" = 0 SQ. FT
CUT = 21.4 SQ. FT
FILL = 0 SQ. FT
TOPSOIL PLACEMENT, 4" = 0 SQ. FT

TOPSOIL EXCAVATION, 6" = 3.8 SQ. FT
CUT = 11.0 SQ. FT
FILL = 1.4 SQ. FT
TOPSOIL PLACEMENT, 4" = 0.7 SQ. FT

TOPSOIL EXCAVATION, 6" = 13.0 SQ. FT
CUT = 12.5 SQ. FT
FILL = 18.9 SQ. FT
TOPSOIL PLACEMENT, 4" = 6.3 SQ. FT

TOPSOIL EXCAVATION, 6" = 0 SQ. FT
CUT = 32.8 SQ. FT
FILL = 0 SQ. FT
TOPSOIL PLACEMENT, 4" = 0 SQ. FT

TOPSOIL EXCAVATION, 6" = 10.1 SQ. FT
CUT = 9.9 SQ. FT
FILL = 12.5 SQ. FT
TOPSOIL PLACEMENT, 4" = 4.4 SQ. FT

TOPSOIL EXCAVATION, 6" = 11.7 SQ. FT
CUT = 9.6 SQ. FT
FILL = 12.6 SQ. FT
TOPSOIL PLACEMENT, 4" = 5.5 SQ. FT

TOPSOIL EXCAVATION, 6" = 8.5 SQ. FT
CUT = 22.7 SQ. FT
FILL = 0.4 SQ. FT
TOPSOIL PLACEMENT, 4" = 0 SQ. FT

TOPSOIL EXCAVATION, 6" = 8.8 SQ. FT
CUT = 9.2 SQ. FT
FILL = 8.9 SQ. FT
TOPSOIL PLACEMENT, 4" = 3.6 SQ. FT

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

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Default	PLOT DATE = 5/15/2023	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. 47+00.00 | TO STA. 50+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	148
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
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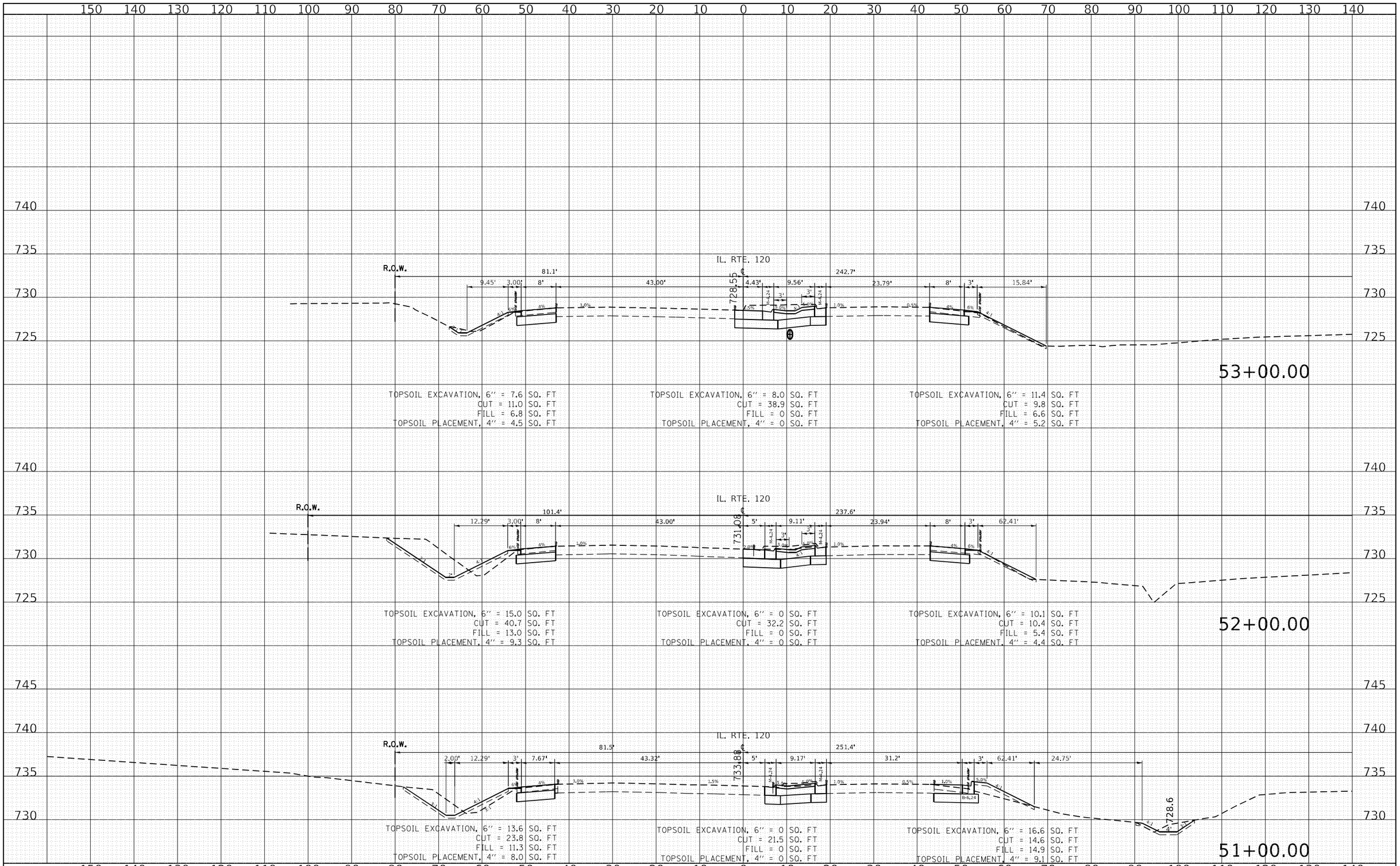
		DATE				



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CUT = 11.0 SQ. FT
FILL = 6.8 SQ. FT
TOPSOIL PLACEMENT, 4" = 4.5 SQ. FT

TOPSOIL EXCAVATION, 6" = 8.0 SQ. FT
CUT = 38.9 SQ. FT
FILL = 0 SQ. FT
TOPSOIL PLACEMENT, 4" = 0 SQ. FT

TOPSOIL EXCAVATION, 6" = 11.4 SQ. FT
CUT = 9.8 SQ. FT
FILL = 6.6 SQ. FT
TOPSOIL PLACEMENT, 4" = 5.2 SQ. FT

TOPSOIL EXCAVATION, 6" = 15.0 SQ. FT
CUT = 40.7 SQ. FT
FILL = 13.0 SQ. FT
TOPSOIL PLACEMENT, 4" = 9.3 SQ. FT

TOPSOIL EXCAVATION, 6" = 0 SQ. FT
CUT = 32.2 SQ. FT
FILL = 0 SQ. FT
TOPSOIL PLACEMENT, 4" = 0 SQ. FT

TOPSOIL EXCAVATION, 6" = 10.1 SQ. FT
CUT = 10.4 SQ. FT
FILL = 5.4 SQ. FT
TOPSOIL PLACEMENT, 4" = 4.4 SQ. FT

TOPSOIL EXCAVATION, 6" = 13.6 SQ. FT
CUT = 23.8 SQ. FT
FILL = 11.3 SQ. FT
TOPSOIL PLACEMENT, 4" = 8.0 SQ. FT

TOPSOIL EXCAVATION, 6" = 0 SQ. FT
CUT = 21.5 SQ. FT
FILL = 0 SQ. FT
TOPSOIL PLACEMENT, 4" = 0 SQ. FT

TOPSOIL EXCAVATION, 6" = 16.6 SQ. FT
CUT = 14.6 SQ. FT
FILL = 14.9 SQ. FT
TOPSOIL PLACEMENT, 4" = 9.1 SQ. FT

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. 51+00.00 | TO STA. 53+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	149
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	SURVEYED	BY
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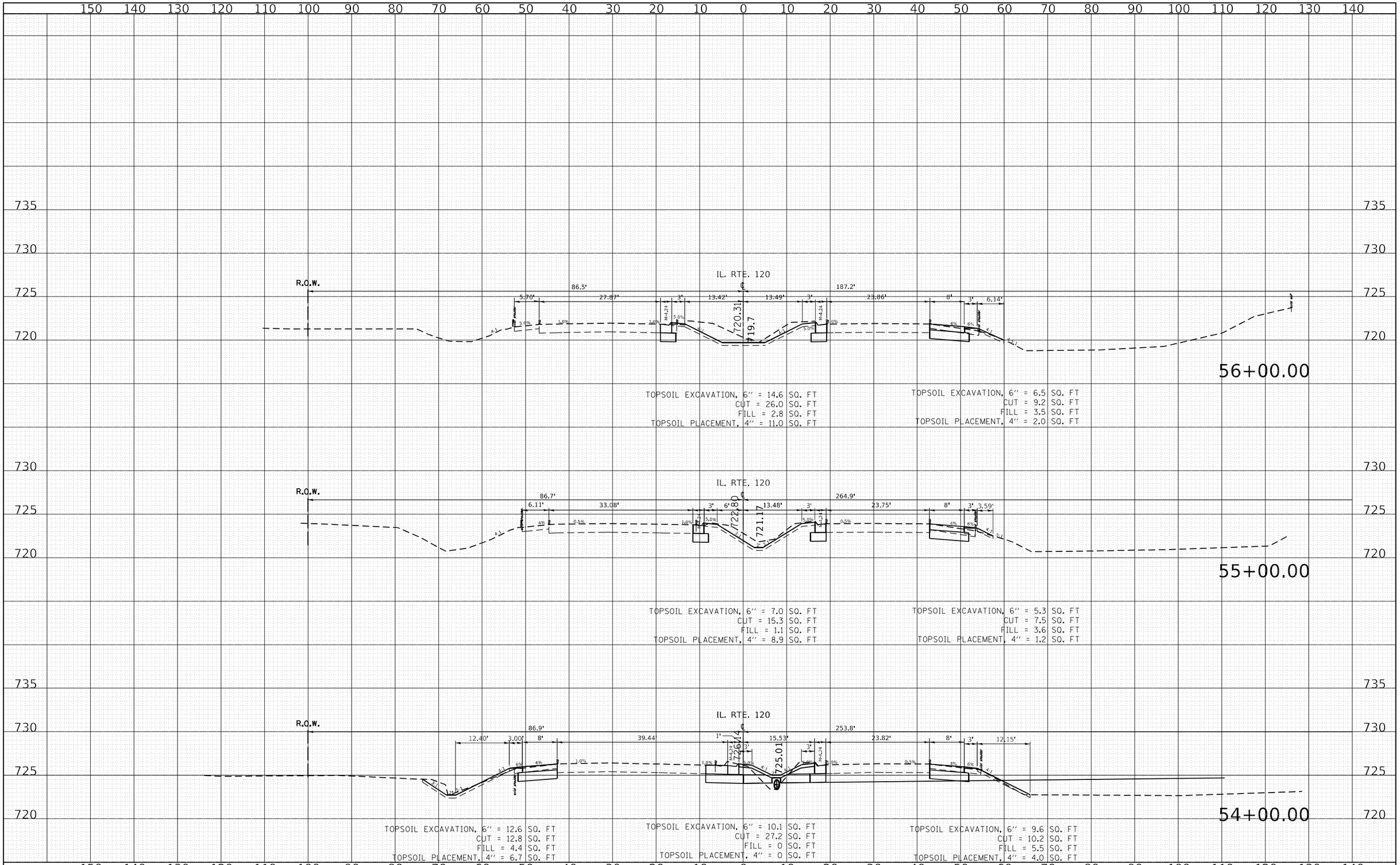
		AREAS CHECKED	



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. 54+00.00 | TO STA.56+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	150
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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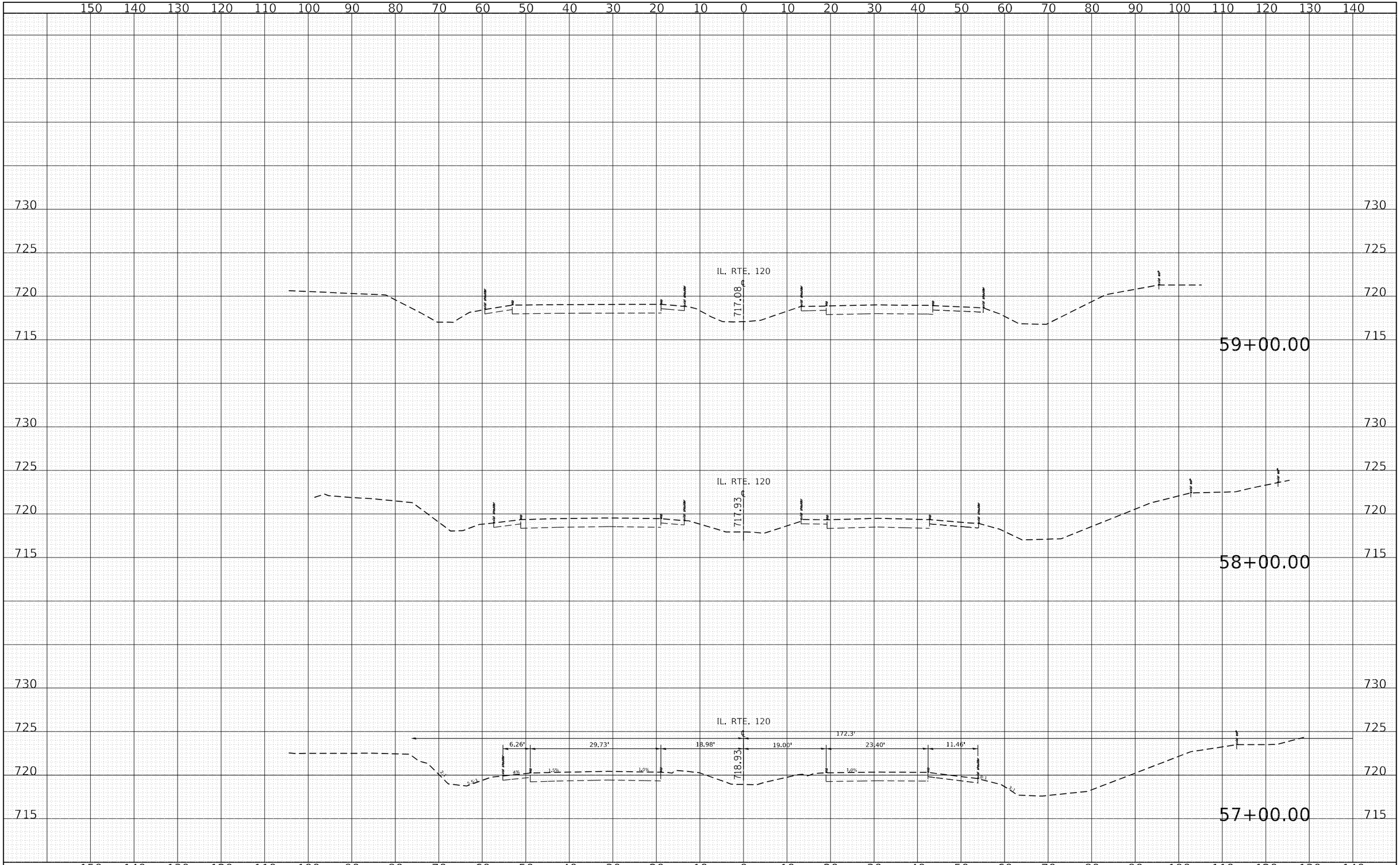
FINAL SURVEY									



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	PLOT DATE = 5/15/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: | SHEET OF SHEETS | STA. 57+00.00 TO STA. 59+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	151
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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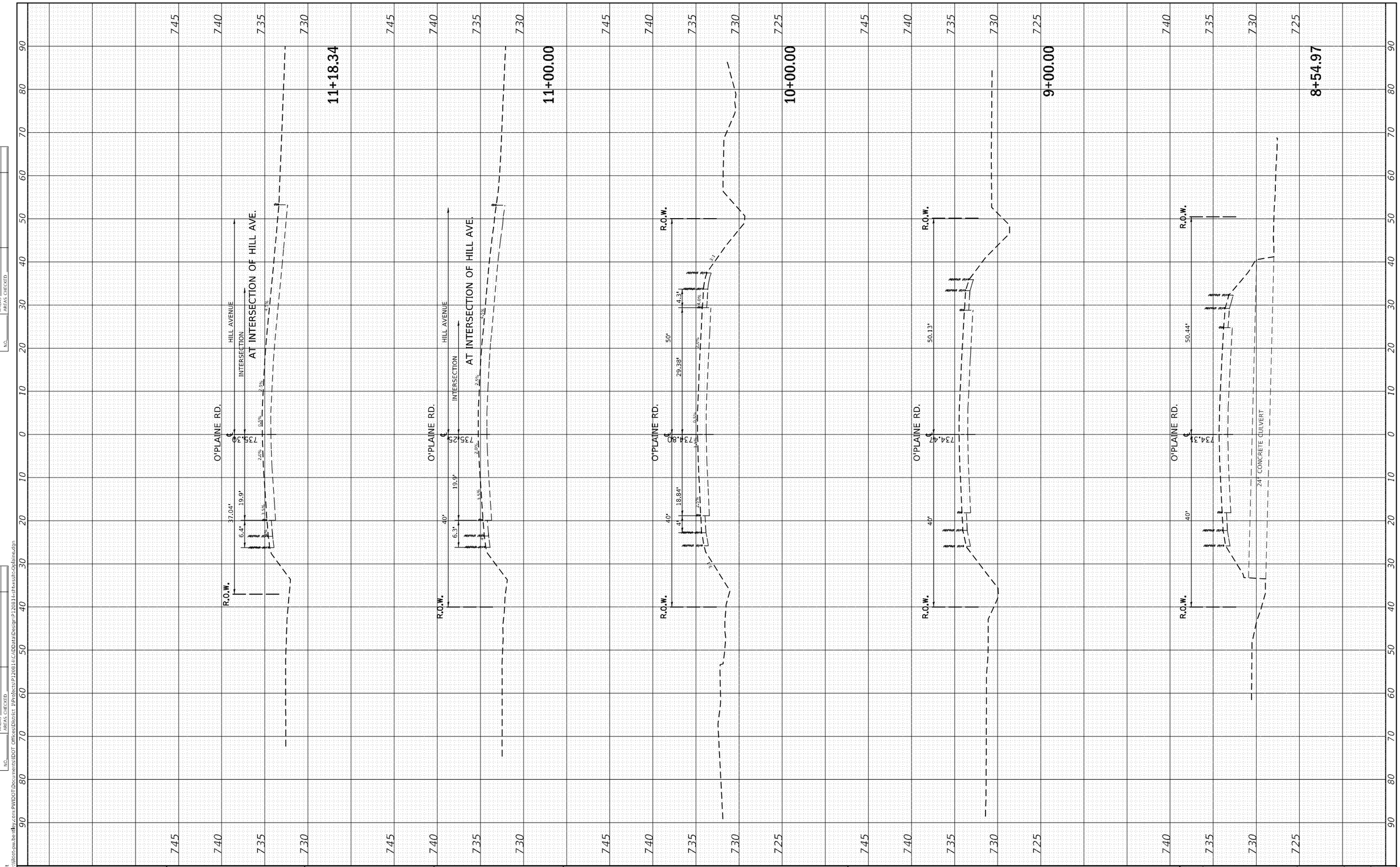
	AREAS		
	AREAS CHECKED		



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

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PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: 1"=20' | SHEET OF SHEETS | STA. 8+54.97 | TO STA. 11+18.34

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	152
		CONTRACT NO. 62R18		
	ILLINOIS	FED. AID PROJECT		

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

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

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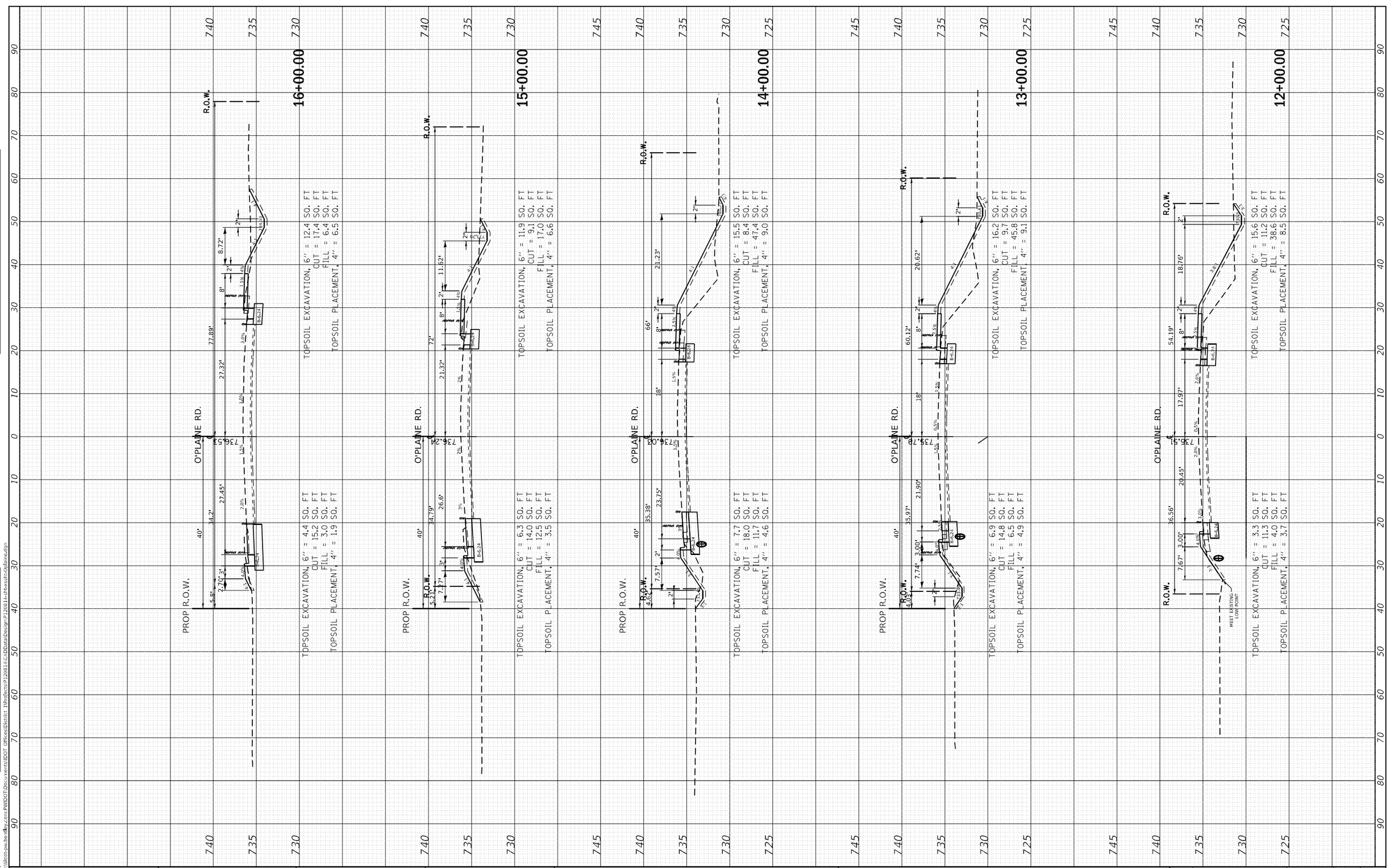

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PLOT DATE = 5/16/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: 1"=20' | SHEET OF SHEETS | STA. 12+00.00 TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	153
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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

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

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O'PLAINE RD.

TOPSOIL EXCAVATION, 6'' = 26.4 SQ. FT
CUT = 23.3 SQ. FT
FILL = 100.4 SQ. FT
TOPSOIL PLACEMENT, 4'' = 11.6 SQ. FT

19+00.00

TOPSOIL EXCAVATION, 6'' = 17.7 SQ. FT
CUT = 27.4 SQ. FT
FILL = 25.1 SQ. FT
TOPSOIL PLACEMENT, 4'' = 9.3 SQ. FT

TOPSOIL EXCAVATION, 6'' = 5.3 SQ. FT
CUT = 6.5 SQ. FT
FILL = 5.1 SQ. FT
TOPSOIL PLACEMENT, 4'' = 1.9 SQ. FT

18+50.00

TOPSOIL EXCAVATION, 6'' = 19.7 SQ. FT
CUT = 37.4 SQ. FT
FILL = 14.3 SQ. FT
TOPSOIL PLACEMENT, 4'' = 10.9 SQ. FT

TOPSOIL EXCAVATION, 6'' = 12.1 SQ. FT
CUT = 30.9 SQ. FT
FILL = 0.9 SQ. FT
TOPSOIL PLACEMENT, 4'' = 6.5 SQ. FT

18+00.00

TOPSOIL EXCAVATION, 6'' = 0 SQ. FT
CUT = 40.0 SQ. FT
FILL = 3.2 SQ. FT
TOPSOIL PLACEMENT, 4'' = 1.4 SQ. FT

TOPSOIL EXCAVATION, 6'' = 12.0 SQ. FT
CUT = 28.6 SQ. FT
FILL = 0.8 SQ. FT
TOPSOIL PLACEMENT, 4'' = 5.7 SQ. FT

17+86.50

TOPSOIL EXCAVATION, 6'' = 0 SQ. FT
CUT = 59.1 SQ. FT
FILL = 0 SQ. FT
TOPSOIL PLACEMENT, 4'' = 0 SQ. FT

TOPSOIL EXCAVATION, 6'' = 5.7 SQ. FT
CUT = 6.7 SQ. FT
FILL = 4.4 SQ. FT
TOPSOIL PLACEMENT, 4'' = 1.9 SQ. FT

17+00.00

TOPSOIL EXCAVATION, 6'' = 5.6 SQ. FT
CUT = 21.8 SQ. FT
FILL = 0.1 SQ. FT
TOPSOIL PLACEMENT, 4'' = 2.1 SQ. FT

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0064 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: 1"=20' | SHEET OF SHEETS | STA. 17+00.00 TO STA. 19+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	154
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		

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

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

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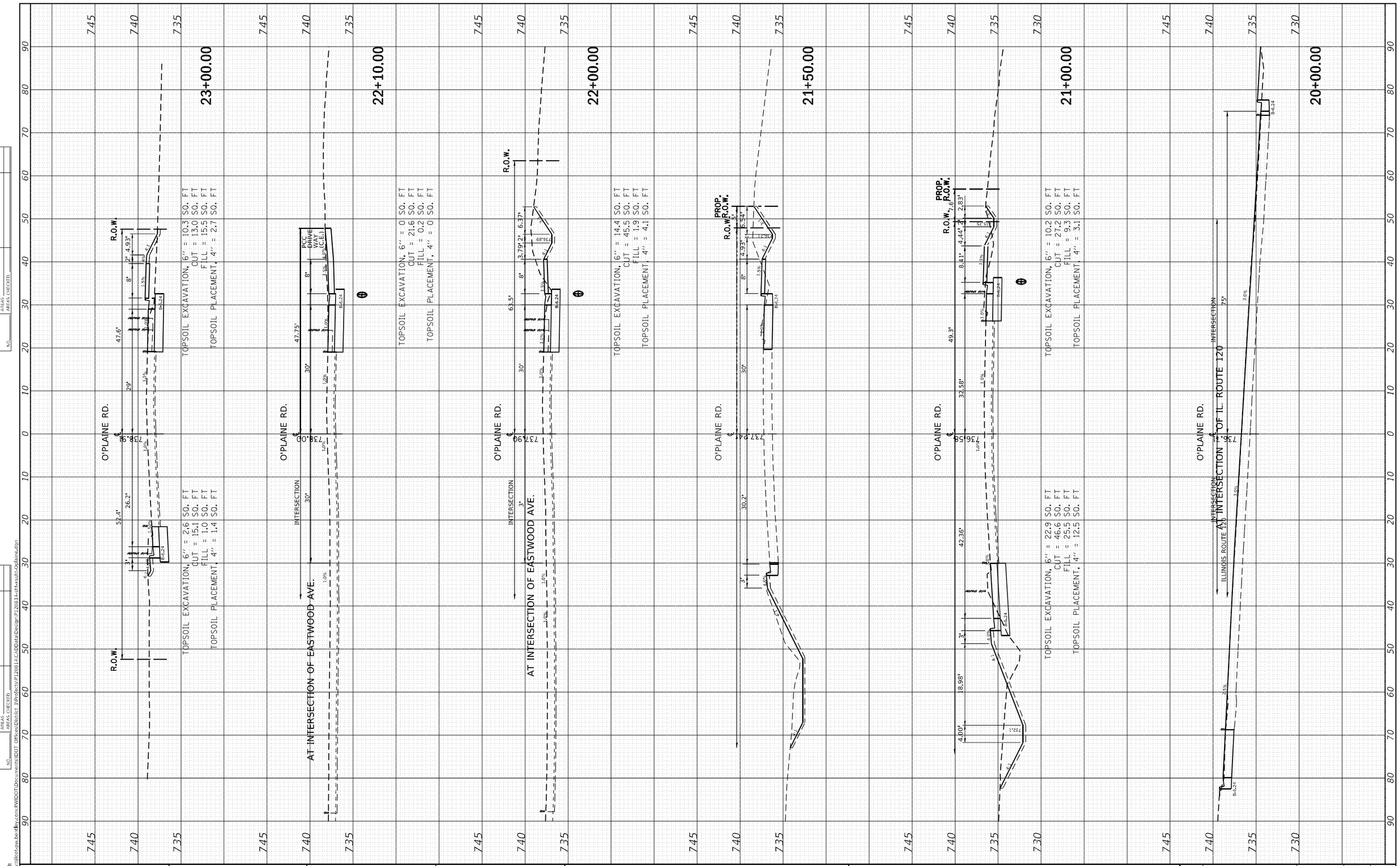


USER NAME = Ivan.diaz	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0064 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/16/2023	DATE -	REVISED -	

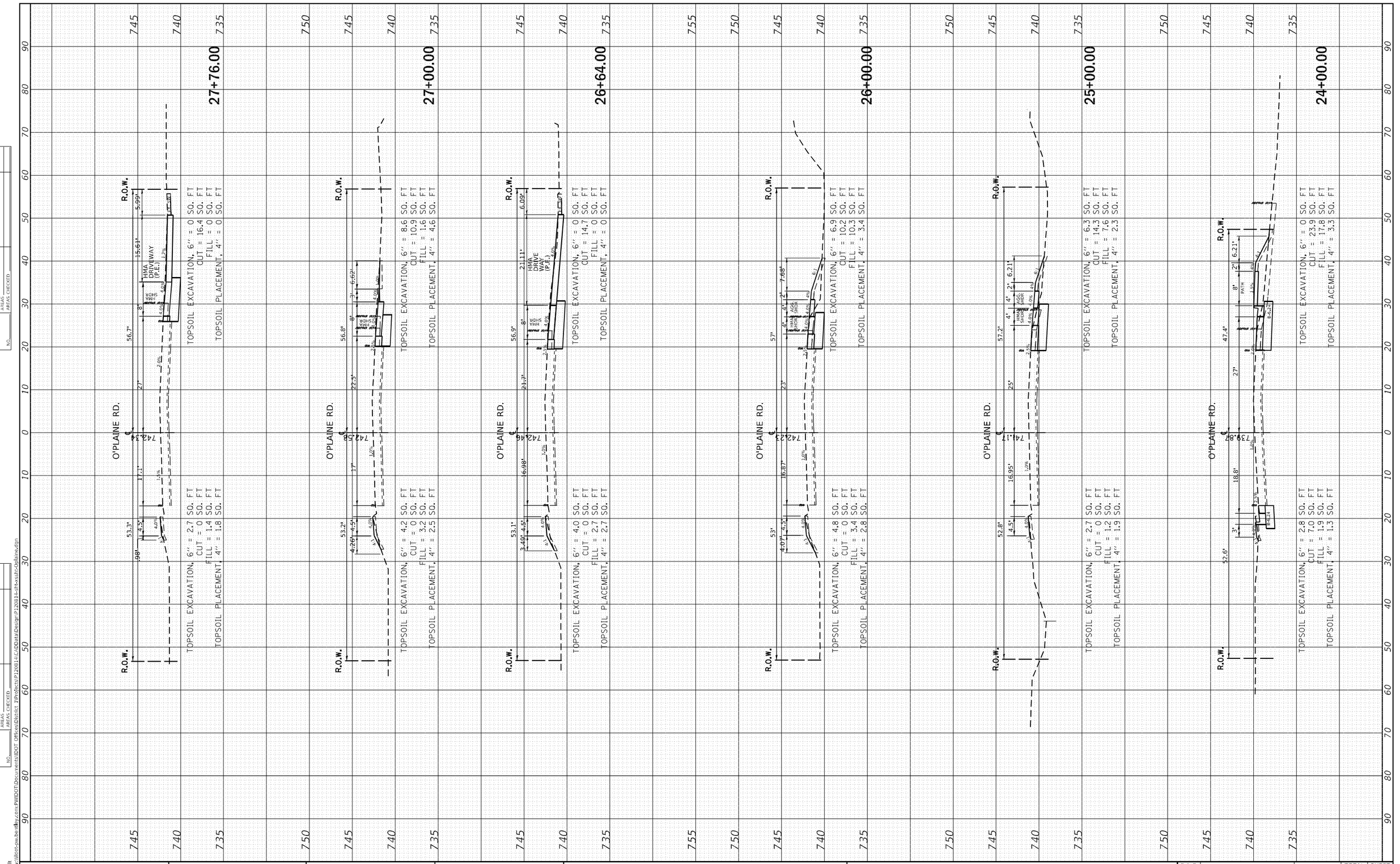
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: 1"=20' | SHEET OF SHEETS | STA. 20+00.00 | TO STA. 23+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	155
		CONTRACT NO. 62R18		
	ILLINOIS FED. AID PROJECT			

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



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

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USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0064 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: 1"=20' | SHEET OF SHEETS | STA. 24+00.00 | TO STA. 27+76.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	156
		CONTRACT NO. 62R18		
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default
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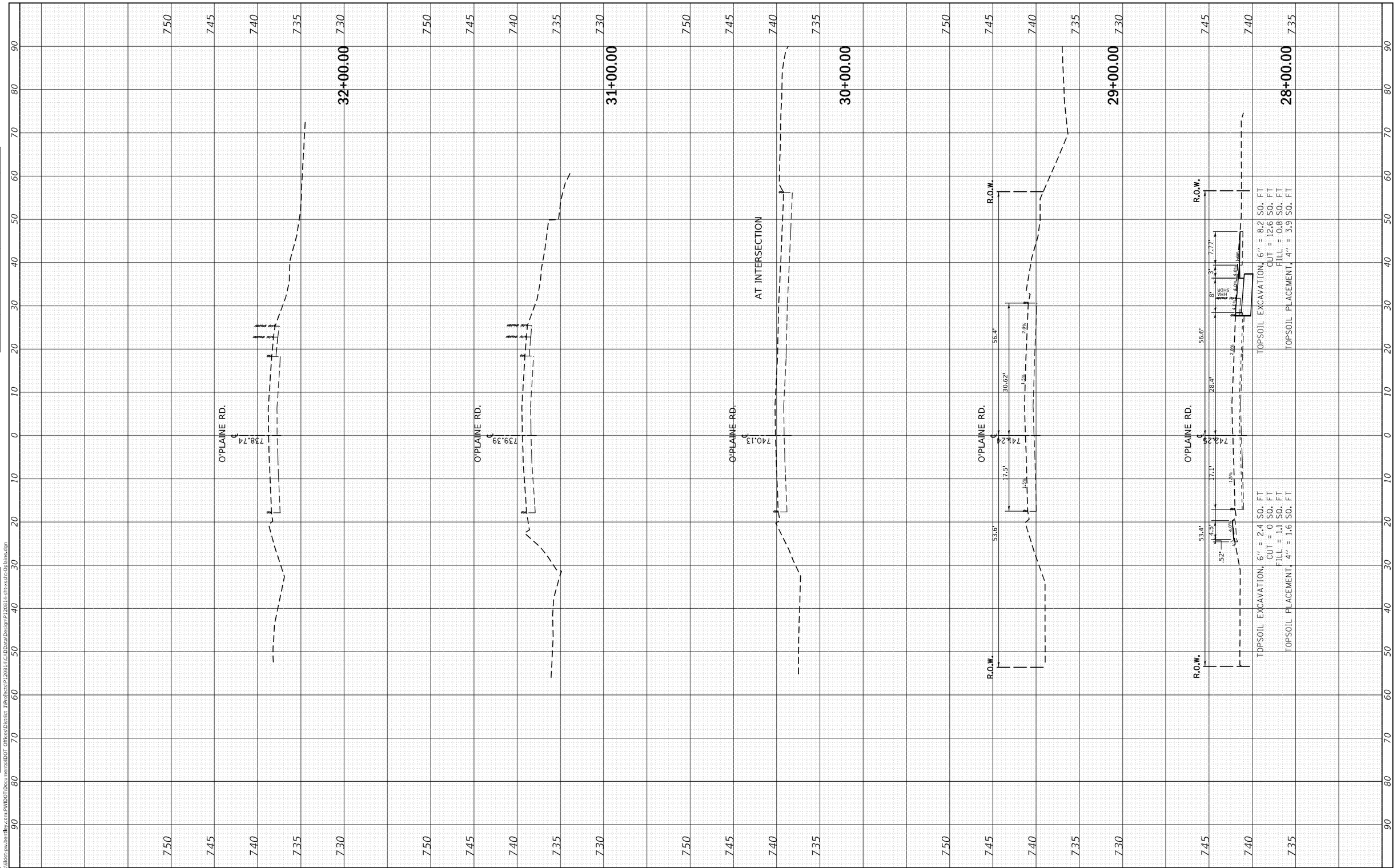

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0064 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/16/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 120 AT O'PLAINE RD.

SCALE: 1"=20' | SHEET OF SHEETS | STA. 28+00.00 | TO STA. 32+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	FA 333 21 INTERSECTION	LAKE	157	157
		CONTRACT NO. 62R18		
		ILLINOIS FED. AID PROJECT		