SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-SDWLK-05-SW	DUPAGE	38	1

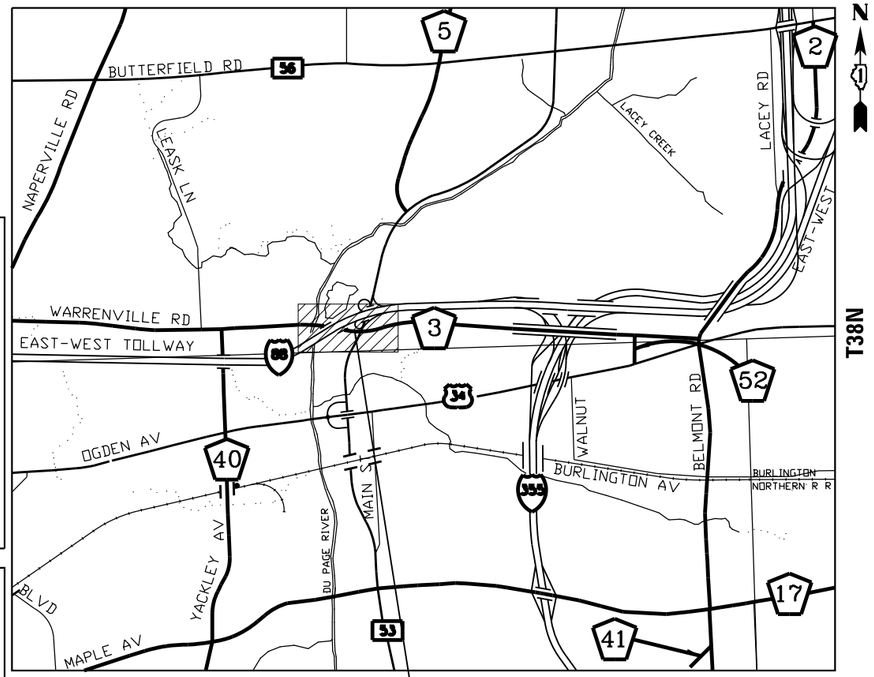
STATE OF ILLINOIS

DUPAGE COUNTY DIVISION OF TRANSPORTATION

PLANS FOR PROPOSED
CH–3 WARRENVILLE ROAD SIDEWALK
I–88 BRIDGE TO IL ROUTE 53
SECTION 20–SDWLK–05–SW

INDEX OF SHEETS

DUPAGE COUNTY LOCATION MAP
(NOT TO SCALE)



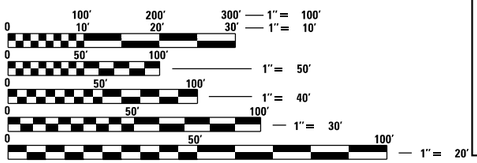
PROJECT LOCATION
WARRENVILLE ROAD, I–88 BRIDGE TO IL ROUTE 53, LISLE, IL

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
602001-02	CATCH BASIN TYPE A
604036-03	GRATE, TYPE 8
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 mm) AWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

DISTRICT 1 STANDARD DETAILS

BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS



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

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

ATLAS ENGINEERING GROUP, LTD
MEHMET BASAR CIVELEK, P.E., S.E.

M. Basar Civelek

DATE: 2–7–2023 **EXP: 11–30–2024**

ATLAS ENGINEERING GROUP, LTD
BEHZAD AMINI, P.E.

B. Amini

DATE: 2–7–2023 **EXP: 11–30–2023**

PLANS PREPARED FOR DUPAGE COUNTY
DIVISION OF TRANSPORTATION
CHRISTOPHER SNYDER, P.E., COUNTY ENGINEER

AEG ATLAS ENGINEERING GROUP, LTD.
3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

DATE: 2-7-23

GENERAL NOTES

1. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

2. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

3. UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

TREE REMOVAL, CLEARING, & HEDGE REMOVAL

4. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.

OVERHANGING LIMBS

5. OVERHANGING LIMBS ARE TO BE TRIMMED OR CUT OFF TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF TWENTY (20) FEET FROM THE FINISHED SURFACE OF THE ROAD. CLEARANCE TO SIDEWALKS OR PATHS SHALL BE AS DIRECTED BY THE ENGINEER.

6. LIMB PRUNING SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.

7. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.

ROADWAY EXCAVATION

8. ALL EXISTING CULVERTS, STORM SEWERS, OR DRAINAGE STRUCTURES MARKED FOR REMOVAL ON THE PLANS OR DESIGNATED IN THE FIELD BY THE ENGINEER TO BE REMOVED SHALL BE REMOVED AND ANY EXCAVATION SHALL BE BACKFILLED WITH A GRANULAR MATERIAL MEETING THE SPECIFICATIONS FOR FA-1 OR FA-2.

9. THE CONTRACTOR WILL HAVE THE OPTION OF REMOVING EXISTING HOT-MIX ASPHALT PAVEMENT BY GRINDING OR EXCAVATING. IF THE HOT-MIX ASPHALT PAVEMENT IS REMOVED BY EXCAVATION, IT MAY NOT BE USED IN EMBANKMENT AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. HOT-MIX ASPHALT PAVEMENT REMOVED BY GRINDING MAY BE USED AS EMBANKMENT MATERIAL. NO HOT-MIX ASPHALT PAVEMENT SHALL BE REMOVED IN AREAS TO BE USED FOR TEMPORARY ROADWAY.

10. THE CONTRACTOR SHALL NOT CROSS COMPLETED BASE COURSE OR EXISTING PAVEMENT, NOT SCHEDULED TO BE REMOVED, WITH TRACK EQUIPMENT OR LOADED SCRAPERS.

11. ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING AGGREGATE SUBGRADE OR SUB-BASE GRANULAR MATERIAL.

TRENCH BACKFILL

12. WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS USING METHOD ONE.

STORM SEWERS, STRUCTURES, & UTILITIES

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

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMAINS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.

15. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNERS OF THE UTILITIES.

16. EMBANKMENTS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO EXCAVATION FOR STORM SEWER.

17. MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED WITH FLAT TOPS WHERE THE DIFFERENCE BETWEEN THE RIM ELEVATION AND INVERT ELEVATION IS LESS THAN SIX (6) FEET.

18. ADJUSTMENT OF STRUCTURES MAINTAINED BY OTHER AGENCIES SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY MAINTAINING THE STRUCTURE INVOLVED.

19. ALL MANHOLES AND INLETS SHALL HAVE POURED INVERTS.

20. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND CONNECTED TO PROPOSED DRAINAGE STRUCTURES, SEWERS, OR DITCHES, AS DIRECTED BY THE ENGINEER.

TOPSOIL

21. TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES AND BE MEASURED IN SQUARE YARDS.

22. THE CROSS SECTIONS INDICATE THE FINISHED GRADE OF TOPSOIL.

23. TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION; THE LOCATIONS OF TOPSOIL STOCKPILES WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY THE ENGINEER.

EROSION CONTROL NOTES

24. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE VII OF THE DuPAGE COUNTY COUNTYWIDE STORMWATER AND FLOOD PLAIN ORDINANCE, EFFECTIVE MAY 2019 AND ALL SUBSEQUENT REVISIONS. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER IDOT STANDARD 280001 OR AS SPECIFIED HEREIN AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.

25. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.

26. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.

27. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE SEEDED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED.

28. WHERE WETLANDS ARE TO REMAIN, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF OR STOCKPILED IN WETLANDS.

29. STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, FLOOD PLAINS, AND BUFFERS. LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.

30. RECEPTACLES FOR CONSTRUCTION DEBRIS, INCLUDING CONCRETE TRUCK WASHOUT WASTE, SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THESE WILL NOT BE ALLOWED IN SPECIAL MANAGEMENT AREAS. RECEPTACLES AND THEIR LOCATIONS MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE APPLICABLE ITEMS OF WORK.

31. HAY OR STRAW BALES WILL NOT BE ALLOWED AS PERIMITER EROSION BARRIER OR AS A DITCH CHECK.

32. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

33. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.

34. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.

35. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.

36. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

37. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.

38. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.

39. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.

40. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING ½ INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS.

TRAFFIC CONTROL AND PROTECTION

41. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, TRAFFIC SIGNAL PLANS, THESE NOTES, APPLICABLE SPECIAL PROVISIONS, AND SECTION 701 OF THE STANDARD SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISION FOR WORK ZONE TRAFFIC CONTROL (CHECK SHEET LRS 3).

42. THE TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.

43. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES MAY BE REMOVED BY THE DUPAGE COUNTY DIVISION OF TRANSPORTATION AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE RELOCATED, MAINTAINED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGED OR LOST SIGNS WILL BE REPLACED BY THE CONTRACTOR.

44. TYPE I OR TYPE II BARRICADES, DRUMS, OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS SHALL BE REQUIRED ALONG TEMPORARY ROADS, DETOURS, AND SIDE STREETS TO DELINEATE THE TRAVELED WAY WITHIN THE CONSTRUCTION ZONE. THE MAXIMUM SPACING FOR THESE DEVICES SHALL BE 100 FEET CENTER TO CENTER.

45. ANY DROP OFF GREATER THAN THREE (3) INCHES WITHIN SIXTEEN (16) FEET OF A TRAVEL LANE SHALL BE PROTECTED BY TYPE I OR TYPE II BARRICADES, DRUMS OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS AT 50 FOOT (MAXIMUM) CENTER TO CENTER SPACING. IF THE DROP OFF IS GREATER THAN TWENTY-FOUR (24) INCHES AND EXISTS FOR LONGER THAN 24 HOURS, IT SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER. TEMPORARY CONCRETE BARRIER SHALL HAVE MONODIRECTIONAL STEADY-BURN LIGHTS AT 50 FOOT (MAXIMUM) CENTER TO CENTER SPACING. THE CONTRACTOR SHALL SCHEDULE HIS WORK AND OPERATIONS SUCH THAT A DROP OFF OF GREATER THAN 24 INCHES DOES NOT REMAIN WITHIN SIXTEEN FEET OF A TRAVEL LANE FOR MORE THAN 24 HOURS. THE CONTRACTOR MAY PLACE COMPACTED EXCAVATED MATERIAL, AGGREGATE, OR OTHER MATERIAL IN THE DROP OFF TO SATISFY THIS REQUIREMENT. THE PLANS INDICATE AREAS (IF ANY) IN WHICH THE DEPARTMENT EXPECTS THAT TEMPORARY CONCRETE BARRIER WILL BE REQUIRED FOR A DROP OFF OF GREATER THAN 24 INCHES TO REMAIN FOR MORE THAN 24 HOURS.

46. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.

47. TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF- WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.

48. TYPE I, II AND / OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.

49. WHERE REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH STAGE OF CONSTRUCTION.

50. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.

51. PRIOR TO THE START OF CONSTRUCTION, REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.

52. THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THIS PROJECT,

701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08 TRAFFIC CONTROL DEVICES

ATLAS ENGINEERING GROUP, LTD.
3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

GENERAL NOTES
WARRENVILLE ROAD

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	2
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WARRENVILLE ROAD 100% LOCAL URBAN
	20101000	TEMPORARY FENCE	FOOT	200	200
*	20200100	EARTH EXCAVATION	CU YD	276	276
*	20800150	TRENCH BACKFILL	CU YD	4	4
+*	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1248	1248
+*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	16	16
+*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	16	16
+*	25200100	SODDING	SQ YD	1142	1142
+*	25200110	SODDING, SALT TOLERANT	SQ YD	282	282
+*	25200200	SUPPLEMENTAL WATERING	UNIT	10	10
+*	28000305	TEMPORARY DITCH CHECKS	FOOT	40	40
+*	28000400	PERIMETER EROSION BARRIER	FOOT	106	106
+*	28000500	INLET AND PIPE PROTECTION	EACH	3	3
+*	28000510	INLET FILTERS	EACH	6	6
*	31101180	SUBBASE GRANULAR MATERIAL, TYPE B 2"	SQ YD	646	646

+ INDICATES SPECIALTY ITEM
* INDICATES SPECIAL PROVISION

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3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

SUMMARY OF QUANTITIES
WARRENVILLE ROAD

SCALE: N.T.S. | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	3
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WARRENVILLE ROAD 100% LOCAL URBAN
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5809	5809
	42400800	DETECTABLE WARNINGS	SQ FT	45	45
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	78	78
	44003100	MEDIAN REMOVAL	SQ FT	457	457
	50104650	SLOPE WALL REMOVAL	SQ YD	367	367
	50200100	STRUCTURE EXCAVATION	CU YD	200	200
	50300225	CONCRETE STRUCTURES	CU YD	1	1
	50300300	PROTECTIVE COAT	SQ YD	191	191
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	45	45
	51100100	SLOPE WALL 4 INCH	SQ YD	191	191
*	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	17	17
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	18.4	18.4
*	60202405	CATCH BASINS, TYPE A, 4'-DIAMETER	EACH	1	1
*	60402210	GRATES, TYPE 8	EACH	1	1

+ INDICATES SPECIALTY ITEM
* INDICATES SPECIAL PROVISION

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AEG ATLAS ENGINEERING GROUP, LTD.
3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

SUMMARY OF QUANTITIES
WARRENVILLE ROAD

SCALE: N.T.S. | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	4
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WARRENVILLE ROAD 100% LOCAL URBAN
	60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	22	22
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	56	56
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	171	171
+	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	45	45
+	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
+	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
+	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
+	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	3
+	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56
+	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	400	400
+	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60	60
+ *	81400100	HANDHOLE	EACH	1	1
+ *	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
+ *	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1688	1688

+ INDICATES SPECIALTY ITEM
* INDICATES SPECIAL PROVISION

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

SUMMARY OF QUANTITIES
WARRENVILLE ROAD

SCALE: N.T.S. | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	5
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WARRENVILLE ROAD 100% LOCAL URBAN
+ *	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1718	1718
+ *	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	76	76
+	87900200	DRILL EXISTING HANDHOLE	EACH	3	3
+ *	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	6
+ *	88800100	PEDESTRIAN PUSH BUTTON	EACH	6	6
+ *	89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
+ *	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1
+ *	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
*	X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1	1
+ *	X1400367	PEDESTRIAN SIGNAL POST, 10FT	EACH	3	3
*	X1700014	SAWCUT CURB	FOOT	106	106
+ *	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
+ *	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6	6
+ *	X8780012	CONCRETE FOUNDATION, TYPE A 12 INCH DIAMETER	FOOT	12	12

+ INDICATES SPECIALTY ITEM
* INDICATES SPECIAL PROVISION

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847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

SUMMARY OF QUANTITIES
WARRENVILLE ROAD

SCALE: N.T.S. | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	6
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WARRENVILLE ROAD 100% LOCAL URBAN
*	XX003338	TEST HOLE	EACH	2	2
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
*	Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	1	1
*	Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	2	2
*	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1	1
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103
+ *	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1
*	ZZZ00001	STORM SEWER AND PIPE CULVERT REMOVAL	FOOT	11	11
*	ZZZ00006	TEMPORARY STONE	TON	1	1

+ INDICATES SPECIALTY ITEM
* INDICATES SPECIAL PROVISION

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

SUMMARY OF QUANTITIES
WARRENVILLE ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	7
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

CURB AND GUTTER

CURB AND GUTTER TYPE B-6.06		
STATION BEGIN	STATION END	LENGTH (FT)
WARRENVILLE ROAD		
210+35.37	210+35.86	9
211+60.40	211+69.81	13
TOTAL		22

CURB AND GUTTER TYPE B-6.18		
STATION BEGIN	STATION END	LENGTH (FT)
WARRENVILLE RD		
206+88.00	207+00.00	12
210+07.17	210+15.15	23
210+40.63	210+44.44	8
211+27.51	211+32.94	13
TOTAL		56

TEMPORARY DITCH CHECKS

TEMPORARY DITCH CHECKS			
STATION	OFFSET	RT/LT	LENGTH (FT)
WARRENVILLE ROAD			
204+60.34	11.48	LT	8
205+49.96	6.77	LT	5
206+50.15	4.84	LT	5
207+74.44	8.86	LT	5
208+55.49	10.67	LT	10
209+50.43	10.55	LT	7
TOTAL			40

LANDSCAPING

SODDING		
STATION BEGIN	STATION END	AREA (SQ YD)
WARRENVILLE RD		
200+95.00	201+24.66	24
203+64.24	210+13.92	1118
TOTAL		1142

SODDING, SALT TOLERANT		
STATION BEGIN	STATION END	AREA (SQ YD)
WARRENVILLE RD		
204+25.00	204+50.00	7
204+50.00	210+11.27	275
TOTAL		282

EXISTING STRUCTURE

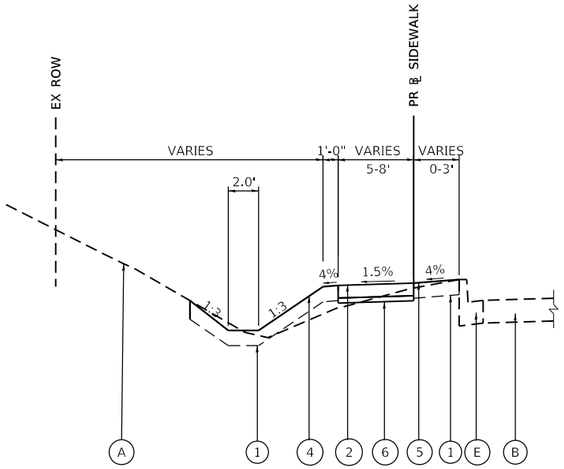
EXISTING STRUCTURE SCHEDULE								
STRUCTURE TYPE	STATION	OFFSET	RT/LT	EX RIM ELEV	PR RIM ELEV	DRAINAGE STRUCTURES TO BE ADJUSTED Z0018400	DRAINAGE STRUCTURES TO BE RECONSTRUCTED Z0018600	DRAINAGE STRUCTURES TO BE REMOVED Z0018700
WARRENVILLE ROAD								
STORM	204+41.20	14.02	LT	670.47	670.7	1		1
STORM	206+96.13	7.60	LT	673.32				
STORM	207+91.63	1.70	LT	674.75	675.2		1	
STORM	209+16.59	1.37	RT	676.71	677.19		1	
TOTAL						1 EACH	2 EACH	1 EACH

SIDEWALK SCHEDULE

SIDEWALK SCHEDULE						
STREET	STATION	STATION	WIDTH (FT)	TYPE	SUBBASE GRANULAR MATERIAL, TYPE B 2" (SQ YD) 31101180	PORTLAND CEMENT CONCRETE SIDEWALK 5" (SQ FT) 42400200
WARRENVILLE ROAD						
	201+00.00	204+25.00	8.00	5 INCH	289	2600
	204+25.00	204+50.00	VARIES	5 INCH	15	137
	204+50.00	210+11.27	5.00	5 INCH	312	2806
IL RTE 53	NW ISLAND		5.00	5 INCH	5	45
IL RTE 53	SW ISLAND		5.00	5 INCH	22	198
IL RTE 53	SE ISLAND		5.00	5 INCH	3	23
TOTAL					646	5809

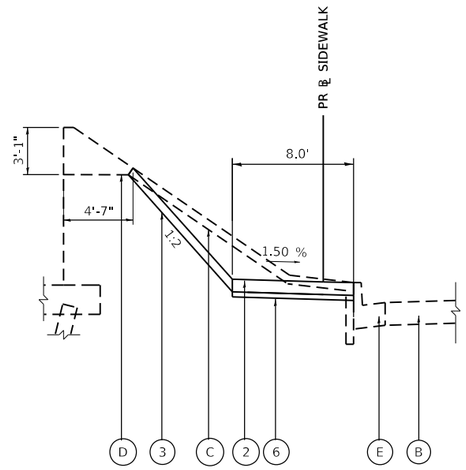
EARTHWORK SCHEDULE

EARTHWORK SCHEDULE						
LOCATION		EARTH EXCAVATION	NON-SPECIAL WASTE DISPOSAL	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	STATION	CU YD	CU YD	CU YD	CU YD	CU YD
WARRENVILLE ROAD						
200+50.00	201+00.00	0.06	0.00	0.05	0.30	-0.25
201+00.00	201+50.00	2.86	0.00	2.43	0.30	2.14
201+50.00	202+00.00	5.56	0.00	4.73	0.00	4.73
202+00.00	202+50.00	5.78	0.00	4.91	0.00	4.91
202+50.00	203+00.00	6.04	0.00	5.13	0.00	5.13
203+00.00	203+50.00	5.10	0.00	4.34	0.00	4.34
203+50.00	204+00.00	3.82	0.00	3.25	1.15	2.10
204+00.00	204+50.00	7.86	0.00	6.68	4.94	1.73
204+50.00	205+00.00	14.91	0.00	12.67	8.59	4.08
205+00.00	205+50.00	18.51	0.00	15.73	9.76	5.97
205+50.00	206+00.00	20.99	0.00	17.84	7.34	10.50
206+00.00	206+50.00	20.54	0.00	17.46	4.71	12.75
206+50.00	207+00.00	30.97	0.00	26.33	5.56	20.76
207+00.00	207+50.00	34.16	34.16	29.04	3.52	25.52
207+50.00	208+00.00	22.46	22.46	19.09	0.53	18.57
208+00.00	208+50.00	18.14	18.14	15.42	1.30	14.13
208+50.00	209+00.00	15.33	15.33	13.03	2.97	10.06
209+00.00	209+50.00	14.12	14.12	12.00	3.18	8.83
209+50.00	210+00.00	12.63	12.63	10.74	2.72	8.01
NW Curb Ramp		5.85	5.85	4.97	0.00	4.97
SW Curb Ramp		10.44	10.44	8.87	0.00	8.87
TOTAL		276	123	226	57	169



WARRENVILLE ROAD PROPOSED TYPICAL SECTION

STA. 201+00.00 TO STA. 201+40.80
STA. 204+50.00 TO STA. 210+11.27



WARRENVILLE ROAD PROPOSED TYPICAL SECTION

STA. 201+40.80 TO STA. 204+25.00

NOTE: FROM STA. 204+25.00 TO STA. 204+50.00
8'-WIDE SIDEWALK TAPER TO 5'-WIDE SIDEWALK

EXISTING LEGEND

- (A) EXISTING TOPSOIL
- (B) EXISTING PAVEMENT
- (C) EXISTING SLOPE WALL, 4"
- (D) EXISTING ABUTMENT
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 6"
- (2) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (3) SLOPE WALL 4 INCH (SEE STRUCTURE PLANS)
- (4) SODDING
- (5) SODDING, SALT TOLERANT
- (6) SUBBASE GRANULAR MATERIAL, TYPE B 2"

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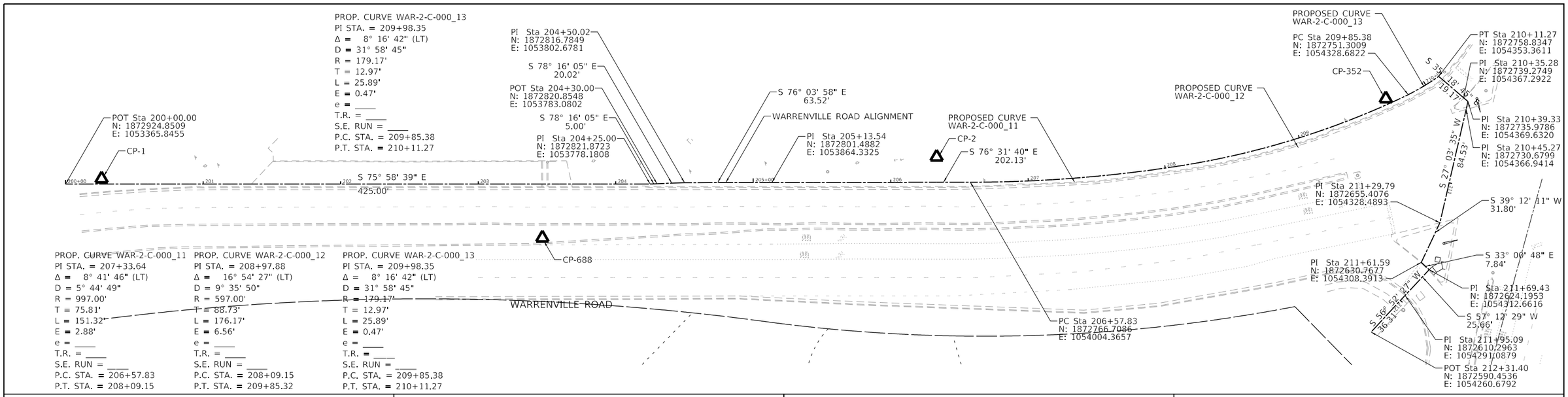
PLOT SCALE = 10.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

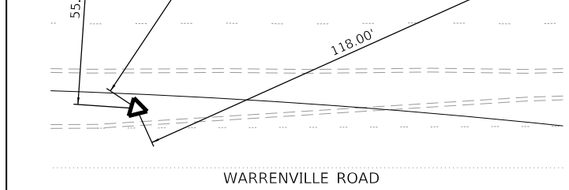
DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

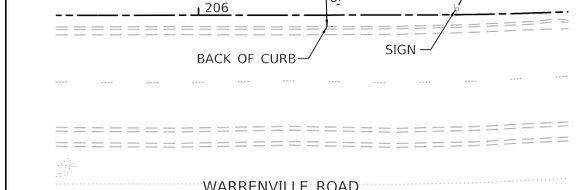
TYPICAL SECTIONS
WARRENVILLE ROAD

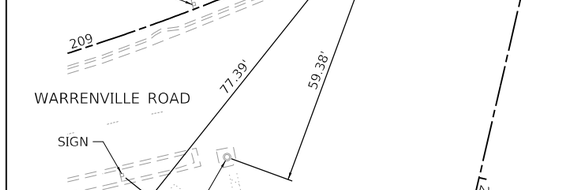
SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	9
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

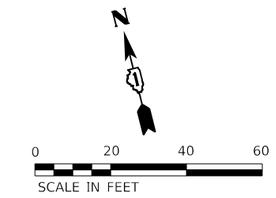








BM-LI03002
PID:DK3121
N:1872933
E:1053080
EL. 670.86
Station is located along Warrenville Road 0.25 miles west of the intersection of Warrenville Road and Illinois Route 53 on the northeast corner of a bridge for Warrenville Road over the East Branch of the DuPage River. Station is 72.0 ft west of a large power pole, 33.4 ft north of the centerline of Warrenville Road, 0.5 ft west of the east end of the north bridge headwall.



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PLOT SCALE = 40.0000 ' / in.	CHECKED - BA	REVISED -	
PLOT DATE = 2/7/2023	DATE -	REVISED -	

DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

ALIGNMENT, TIES, AND BENCHMARKS
WARRENVILLE ROAD

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 200+00.00 TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	10
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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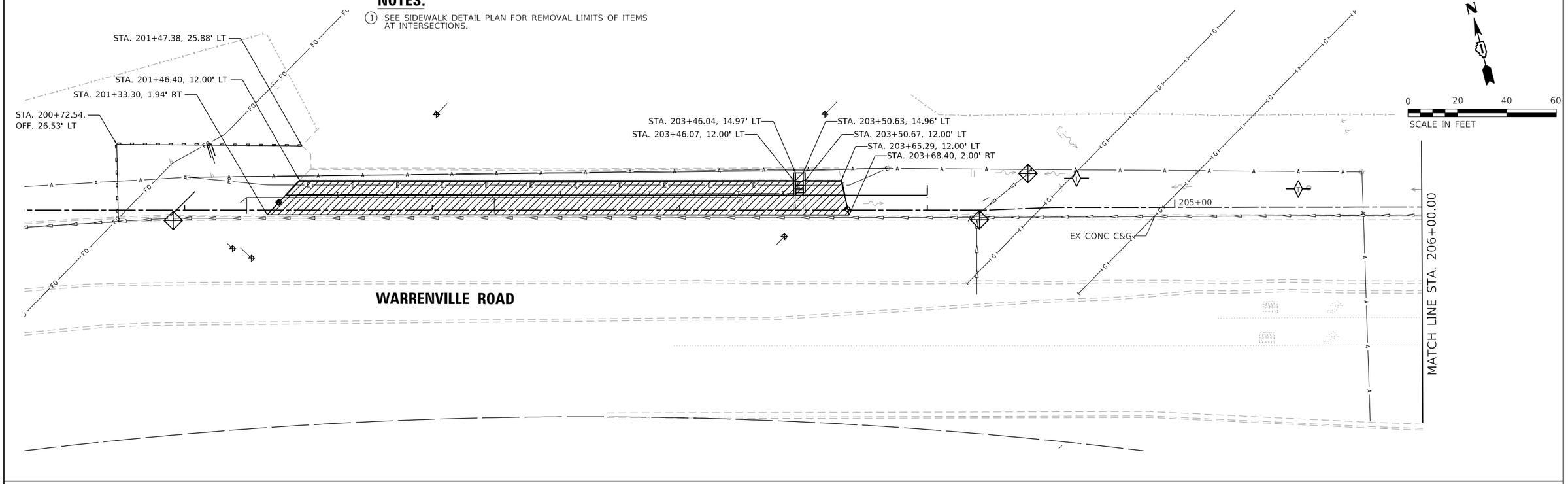
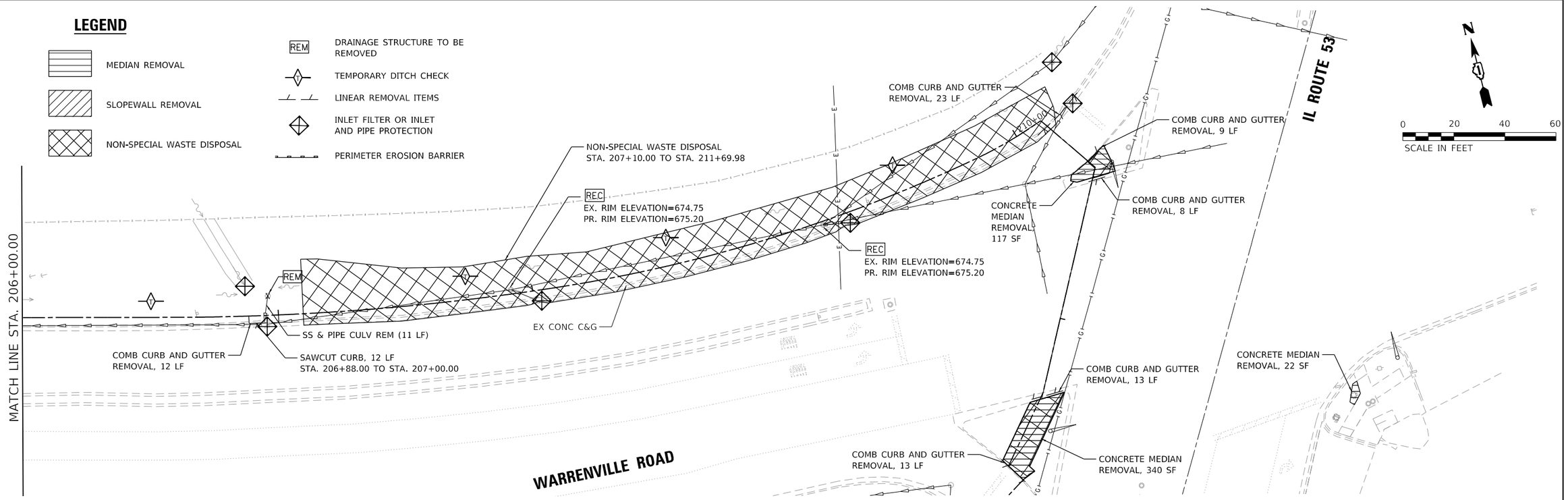
NOTES:

1. SEE SIDEWALK DETAIL PLAN FOR REMOVAL LIMITS OF ITEMS AT INTERSECTIONS.



LEGEND

- MEDIAN REMOVAL
- SLOPEWALL REMOVAL
- NON-SPECIAL WASTE DISPOSAL
- REM — DRAINAGE STRUCTURE TO BE REMOVED
- TEMPORARY DITCH CHECK
- LINEAR REMOVAL ITEMS
- INLET FILTER OR INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER



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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

REMOVAL AND TEMPORARY EROSION CONTROL PLAN
WARRENVILLE ROAD

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 200+00.00 TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	11
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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RONALD REAGAN
MEMEORIAL TOLLWAY
I-88 (OVERHEAD)

START 8' WIDE SIDEWALK
STA. 201+00.00, 6.00' LT

EX SLOPEWALL

PROPOSED STAIRS
SEE STRUCTURAL
PLANS FOR DETAILS

ADJ
EX RIM ELEVATION = 670.47
PR RIM ELEVATION = 670.67

PCC SW 5 INCH,

PR SW PGL

STA. 201+35.11, 0.00'

STA. 201+33.30, 2.00' RT

EXISTING CONCRETE
CURB AND GUTTER

STA. 203+68.19

START 5' WIDE SIDEWALK
STA. 204+50.00, 0.00'

EX CONC C&G

END 8' WIDE SIDEWALK
STA. 204+25.00, 0.00'

BEGIN IMPROVEMENTS
WARRENVILLE RD.
STA. 201+00.00

WARRENVILLE ROAD

MATCH LINE STA. 206+00.00

2.15'
8.00'
8.00'
8.00'
5.00'
5.00'

201 202 203 204 205+00

0 20 40 60
SCALE IN FEET

N

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

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

690 685 680 675 670 665 660 655 650

EXISTING GROUND AT PGL
PR SW PGL
PR DITCH PROFILE (LEFT)
PR DITCH PROFILE ELEVATION (LEFT)
EXISTING GROUND ELEVATION
PR SW PGL ELEVATION

670.22 +0.73% VPI STA. 201+50.00 ELEVATION 670.58 +0.20%
+0.20% VPI STA. 202+00.00 ELEVATION 670.69 +0.43%
+0.43% VPI STA. 202+50.00 ELEVATION 670.90 +0.65%
+0.65% VPI STA. 203+00.00 ELEVATION 671.23 +1.36%
+1.36% VPI STA. 204+00.00 ELEVATION 672.59 +1.16%
+1.16% 670.67 VPI STA. 204+50.00 ELEVATION 673.16 +1.44%
+1.44% VPI STA. 205+00.00 ELEVATION 673.89 +1.91%
+1.91% VPI STA. 205+50.00 ELEVATION 674.84 +0.96%
+0.96% +0.96% +1.91% +00.00 VPI STA. 206+00.00

MATCH LINE STA. 206+00.00

670.38
670.22 670.22
670.59 670.58
670.72 670.69
670.96 670.90
671.30 671.23
671.78 671.91
672.25 672.59
672.82 673.16
673.38 673.89
674.46 674.84
675.15 675.32

200+50 201+00 201+50 202+00 202+50 203+00 203+50 204+00 204+50 205+00 205+50 206+00

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PLOT DATE = 2/7/2023	DATE - 2-7-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARRENVILLE ROAD PROPOSED SIDEWALK
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. 201+00.00 TO STA. 206+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	12
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60
SCALE IN FEET

EX REVETMENT MAT

CATCH BASINS, TYPE A 4'-DIAMETER, TYPE 8 GRATE
STA. 206+86.97
OFFSET 11.98' LT
RIM: 673.28
INV: 667.92

EX SIGN PANEL (TO BE RELOCATED BY OTHERS)

EX RIM ELEVATION = 676.71
PR RIM ELEVATION = 677.19

EX SIGN PANEL (TO BE RELOCATED BY OTHERS)

SEE SHEET 14 FOR FURTHER DETAILS ON CURB RAMPS

STORM SEWERS, CLASS A, TYPE 2 15"
17 LF @ 2.5%
UPSTREAM INV: 667.92
DOWNSTREAM INV: 667.50

206 207 208 209 210+00

5.00' 5.00' 5.00'

8.48' 6.00' 3.00'

IL ROUTE 53

EXISTING CATCH BASIN TO REMAIN

COMBINATION OF CONCRETE CURB AND GUTTER TYPE B-6.18 (12 LF)

PCC SW 5 INCH, STA. 206+00.00 TO STA. 210+11.27

PR SW PGL

END 5' WIDE SIDEWALK STA. 210+11.27, 0.00'

CONCRETE MEDIAN SURFACE, 4"

MATCH LINE STA. 206+00.00

EX W INV: 667.40
EX E INV: 667.50
(AS PER AS-BUILT DWG. FOR CONTRACT TOLLWAY I-06-5807 DWG. NO. 183 OF 788 REV. 25 DATE 11-14-2008)

EX CONC C&G

EX RIM ELEVATION = 674.75
PR RIM ELEVATION = 675.20

6.00'

THERMOPLASTIC PM -LINES 12" (WHITE) (TYP.)

CONCRETE MEDIAN SURFACE, 4"

WARRENVILLE ROAD

SEE SHEET 14 FOR FURTHER DETAILS ON CURB RAMPS

5" PCC SIDEWALK

DETECTABLE WARNING (TYP.)

EX DETECTABLE WARNINGS TO REMAIN

EX DETECTABLE WARNINGS TO REMAIN

END IMPROVEMENTS WARRENVILLE RD. STA. 211+69.98

EX ROW

PIN 08-03-400-013

PIN 08-03-208-001

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 NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

695 690 685 680 675 670 665 660 655

MATCH LINE STA. 206+00.00
ELEVATION 675.32
EL. 673.70

-0.58% -0.58% -0.64% -0.64% +0.30% +0.30% +0.84% +0.84% +1.52% +1.03% +1.03% +0.75% +0.75% +1.56% +1.56% -0.50%

-0.48% -0.48% +1.28% +0.95% +0.95% +1.01%

PR DITCH PROFILE (LEFT)

+86.93 EL. 673.28
+00.00 EL. 673.45
+42.33 EL. 674.80
675.29

VPI STA. 206+50.00 ELEVATION 675.03
VPI STA. 207+00.00 ELEVATION 674.71
VPI STA. 207+50.00 ELEVATION 674.86
VPI STA. 208+00.00 ELEVATION 675.28
VPI STA. 208+50.00 ELEVATION 676.04
VPI STA. 209+00.00 ELEVATION 676.55
VPI STA. 209+50.00 ELEVATION 676.93
VPI STA. 210+00.00 ELEVATION 677.71
677.63

EXISTING GROUND AT PGL

PR SW PGL

PR DITCH PROFILE ELEVATION (LEFT)

EXISTING GROUND ELEVATION

PR SW PGL ELEVATION

675.15 675.32 673.70
674.68 675.03 673.46
674.55 674.71 673.45
674.69 674.86 673.92
675.06 675.28 674.40
675.84 676.04 674.88
676.28 676.55
676.70 676.93
677.38 677.71
678.11
677.76
677.84

206+00 206+50 207+00 207+50 208+00 208+50 209+00 209+50 210+00 210+50 211+00 211+50

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3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

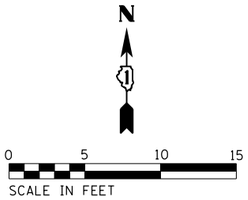
USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE - 2-7-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

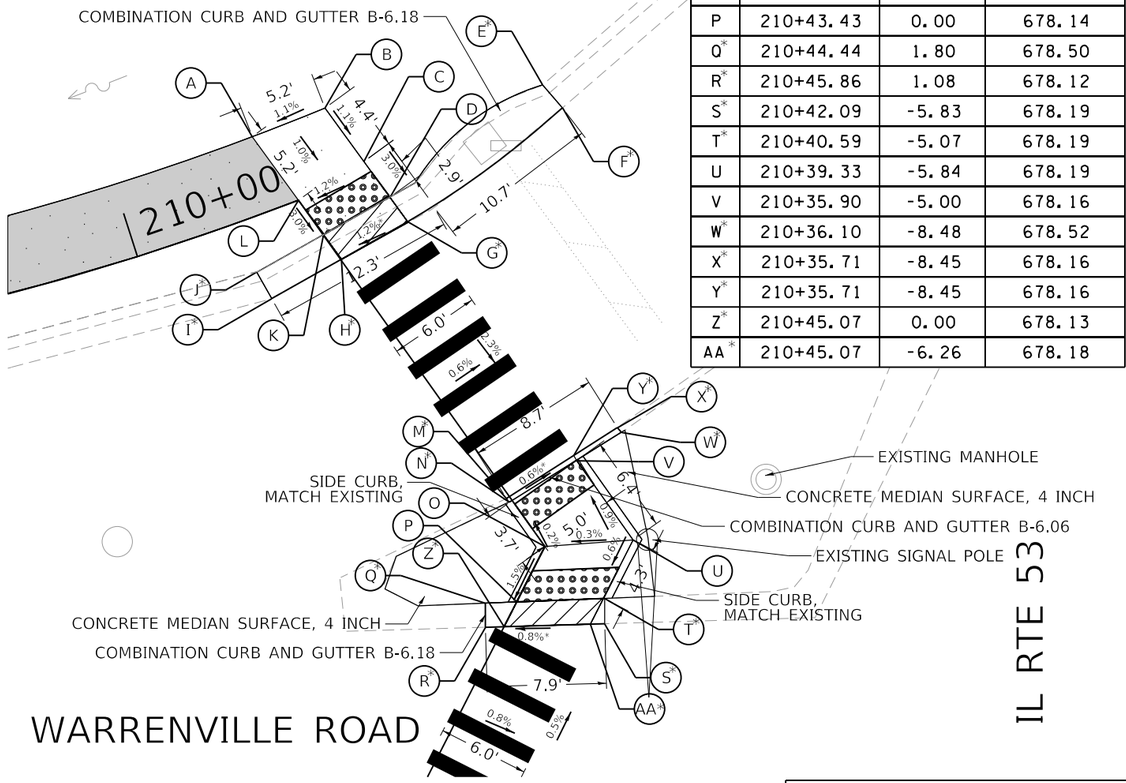
WARRENVILLE ROAD PROPOSED SIDEWALK
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. 206+00.00 | TO STA. 211+50.00

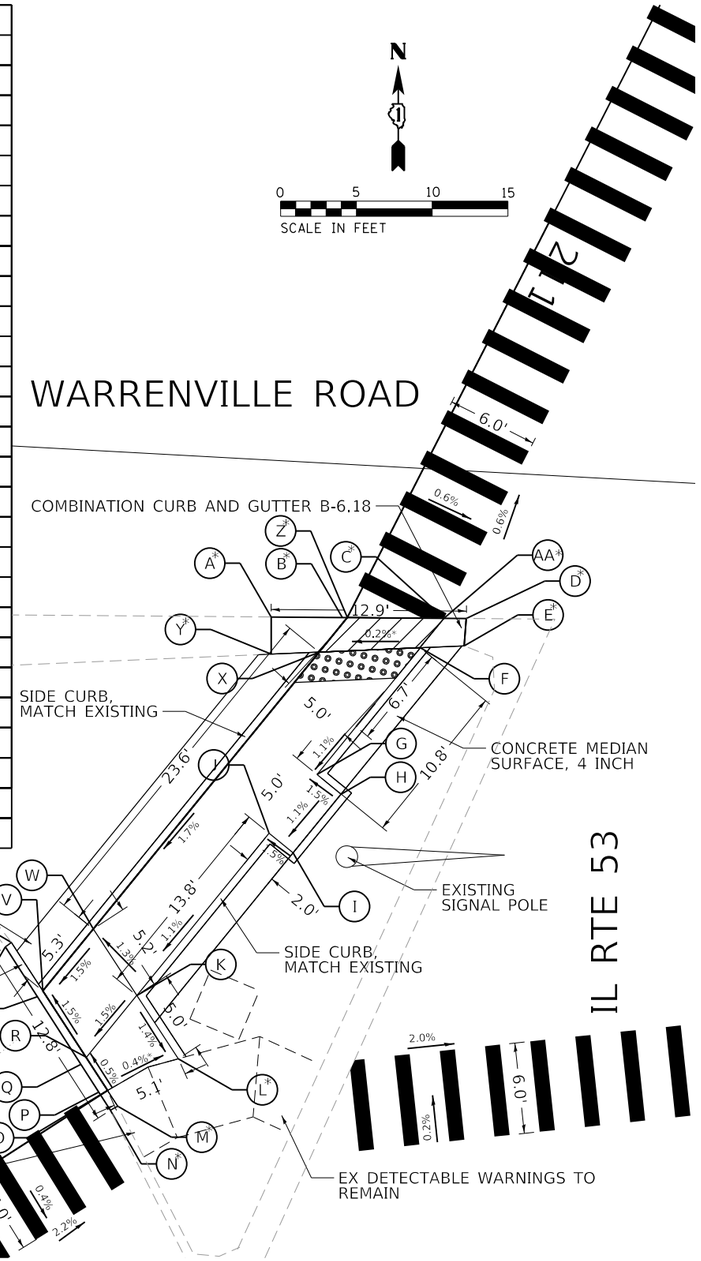
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DUPAGE	DUPAGE	38	13
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



	STATION	OFFSET	ELEVATION
A	210+09.90	-5.00	677.83
B	210+11.27	-6.33	677.89
C	210+11.75	-4.98	677.84
D	210+14.67	-5.00	677.69
E*	210+14.60	-17.51	677.91
F*	210+16.38	-17.68	677.65
G*	210+16.65	-5.60	677.69
H*	210+16.07	0.39	677.63
I*	210+15.49	5.24	677.56
J*	210+07.08	3.50	677.95
K	210+14.09	-0.03	677.63
L	210+11.27	-0.00	677.78
M*	210+35.28	0.01	678.18
N*	210+35.59	0.23	678.18
O	210+39.33	0.00	678.19
P	210+43.43	0.00	678.14
Q*	210+44.44	1.80	678.50
R*	210+45.86	1.08	678.12
S*	210+42.09	-5.83	678.19
T*	210+40.59	-5.07	678.19
U	210+39.33	-5.84	678.19
V	210+35.90	-5.00	678.16
W*	210+36.10	-8.48	678.52
X*	210+35.71	-8.45	678.16
Y*	210+35.71	-8.45	678.16
Z*	210+45.07	0.00	678.13
AA*	210+45.07	-6.26	678.18



	STATION	OFFSET	ELEVATION
A*	211+32.94	3.92	677.78
B*	211+30.00	0.26	677.79
C*	211+26.94	-5.70	677.80
D*	211+26.27	-7.03	677.82
E*	211+27.96	-7.71	678.25
F	211+29.38	-5.20	677.80
G	211+39.09	-5.00	677.68
H	211+39.09	-7.05	677.71
I	211+44.09	-7.05	677.65
J	211+44.09	-5.00	677.62
K	211+57.91	-5.00	677.47
L*	211+59.41	-9.77	677.40
M*	209+51.40	123.57	677.38
N*	211+69.99	-1.20	677.36
O	211+69.43	0.00	677.42
P	211+69.98	0.00	677.37
Q	211+66.95	0.54	677.38
R	211+66.84	0.00	677.44
S	211+61.71	0.51	677.39
T*	211+60.91	3.75	677.40
U*	211+60.43	3.63	677.76
V	211+61.59	0.00	677.49
W	211+56.33	0.00	677.53
X	211+32.74	0.00	677.79
Y*	211+34.85	2.37	678.20
Z*	211+35.02	0.00	677.78
AA*	211+35.02	-6.37	677.84



LEGEND

- PROPOSED SIDE CURB
- * MATCH EXISTING ELEVATION OR SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- DEPRESSED CURB

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PLOT DATE = 2/7/2023	DATE -	REVISED -	

DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

SIDEWALK DETAIL PLAN
WARRENVILLE ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	14
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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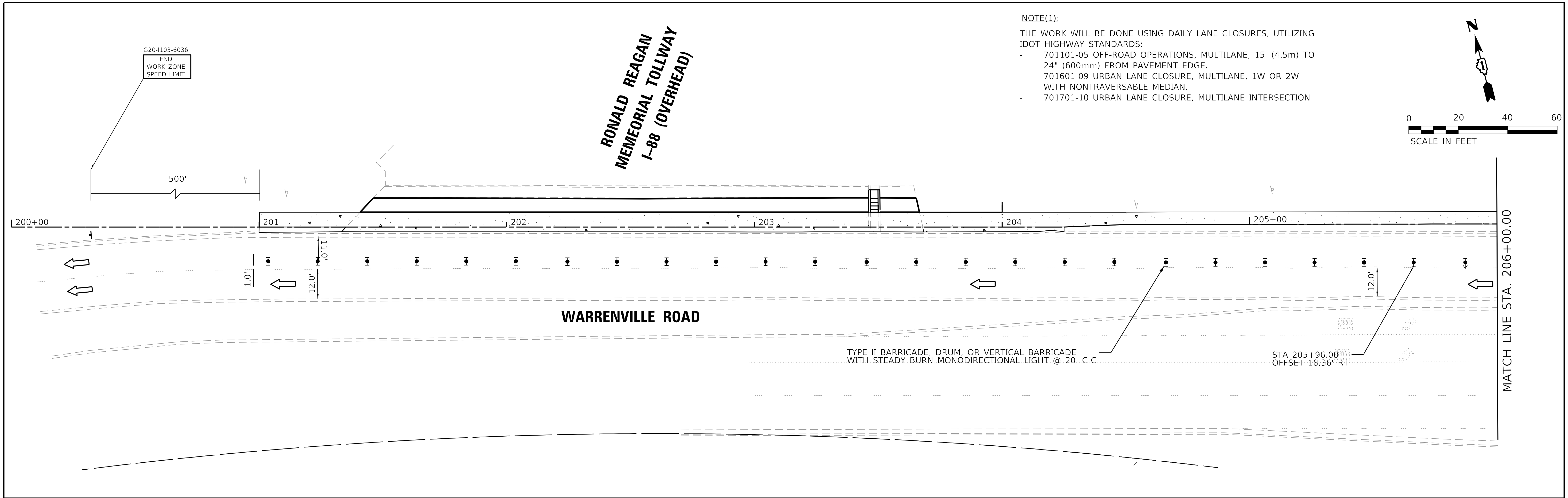
NOTE(1):

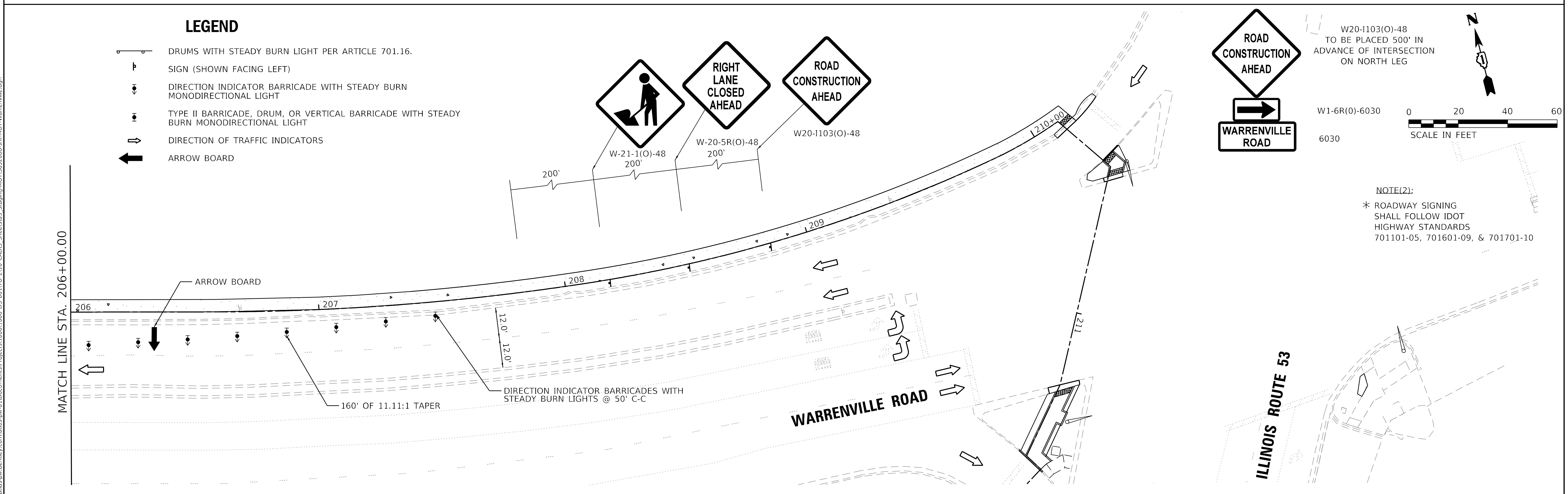
THE WORK WILL BE DONE USING DAILY LANE CLOSURES, UTILIZING IDOT HIGHWAY STANDARDS:

- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE.
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN.
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION



LEGEND

- DRUMS WITH STEADY BURN LIGHT PER ARTICLE 701.16.
- SIGN (SHOWN FACING LEFT)
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION OF TRAFFIC INDICATORS
- ARROW BOARD



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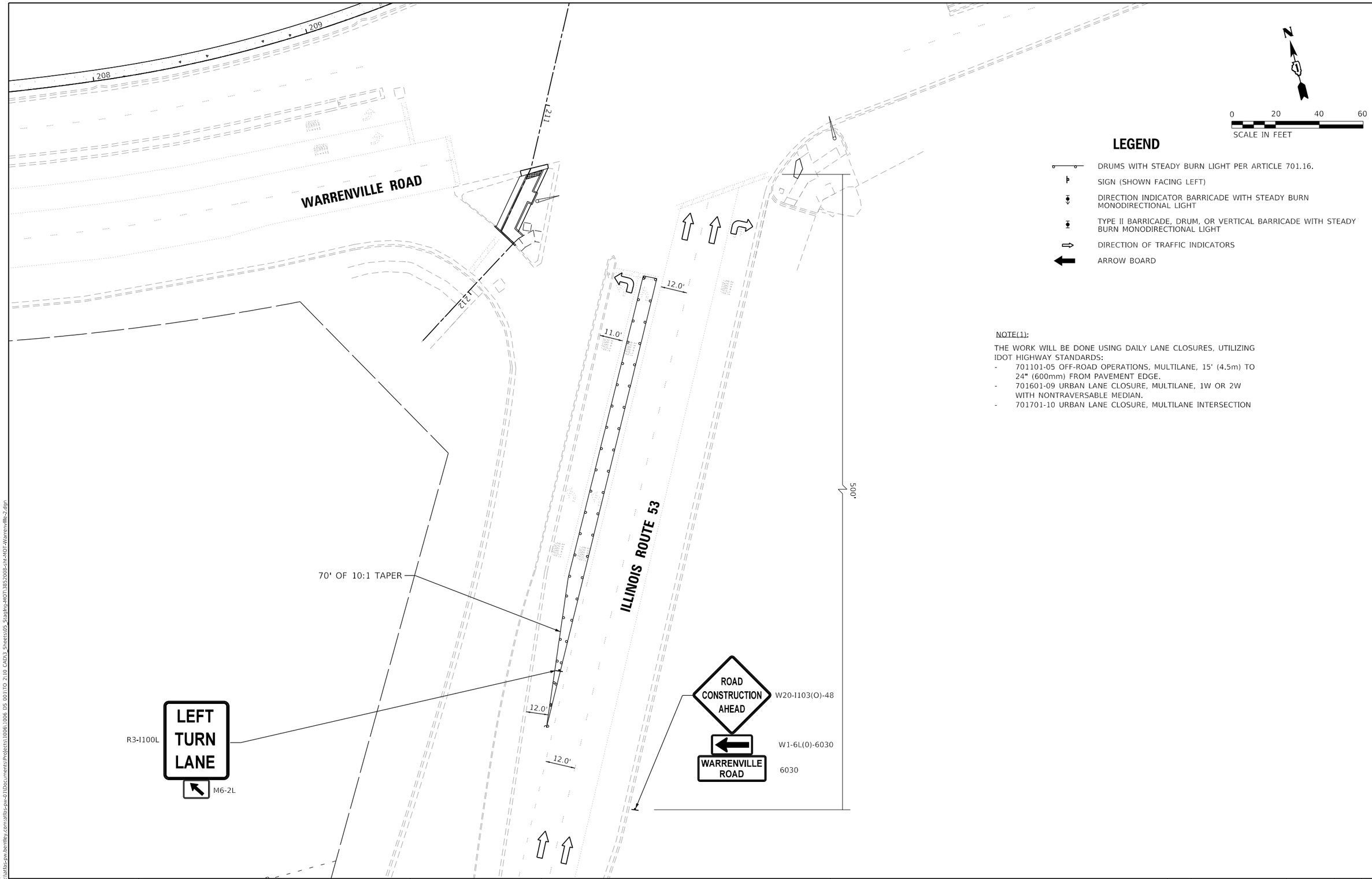
PLOT DATE = 2/7/2023	DATE -	REVISED -	

DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

MAINTENANCE OF TRAFFIC
WARRENVILLE ROAD

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. 200+00.00 TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	15
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



LEGEND

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- SIGN (SHOWN FACING LEFT)
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
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NOTE(1):

THE WORK WILL BE DONE USING DAILY LANE CLOSURES, UTILIZING IDOT HIGHWAY STANDARDS:

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

MAINTENANCE OF TRAFFIC
WARRENVILLE ROAD

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	16
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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NOTE:
THE CONTRACTOR SHALL EXERCISE UTMOST CAUTION WHEN INSTALLING THE APS POLE, TO PROTECT THE EXISTING TRAFFIC SIGNAL CONDUIT AS SHOWN ON PLAN.

209

210+00

PROPOSED HANDHOLE
STA. 210+11.12
OFFSET 8.83' LT

35'-UC
2"

DRILL EXISTING HANDHOLE (1)

122'-E
3 1/2"

EXISTING 35' MAST ARM

PEDESTRIAN SIGNAL POST, 10' POST
CONCRETE FOUNDATION, TYPE A
12-INCH DIAMETER
STA. 210+11.27
OFFSET 5.94' LT

3'-UC
2"

13'-E
2 1/2"

8'-E
2 1/2"

EXISTING 45' MAST ARM

0 10 20 30
SCALE IN FEET

N

WARRENVILLE ROAD

134'-E
4"

EXISTING 45' MAST ARM

REMOVE PEDESTRIAN
SIGNAL HEAD

13'-E
3"

DRILL EXISTING HANDHOLE (2)

REMOVE
PEDESTRIAN
PUSH BUTTON

10'-UC
2"

4'-UC
2"

EXISTING 45' MAST ARM

STA 210+99.20
117.26' LT

STA 210+98.00
118.97' LT

7'-E
2"

PEDESTRIAN SIGNAL POST, 10' POST
CONCRETE FOUNDATION, TYPE A
12-INCH DIAMETER
STA. 211+69.43
OFFSET 8.96' LT

EXISTING 10' POST

5" PCC SIDEWALK (42400200), 22.5 S.F.
W/ 2" SUBBASE GRANULAR MATERIAL,
TYPE B (31101180), 2.5 S.Y.

20'-E
2 1/2"

STA 211+06.61
118.20' LT

5'-E
5"

49'-E
3 1/2"

EXISTING 16' POST

14'-E
2"

EXISTING CONTROLLER AND UPS

PEDESTRIAN SIGNAL POST, 10' POST
CONCRETE FOUNDATION, TYPE A
12-INCH DIAMETER
STA. 211+52.19
OFFSET 16.17' LT

44'-E
3"

65'-E
4"

212

IL ROUTE 53

71'-E
3 1/2"

117'-E
1 1/2"

EXISTING SIGNAL SERVICE

TS 11665

ECON 37

MODEL: Default
FILE NAME: pw:\\atlas-pw.bentley.com:atlas-pw-01\Documents\Projects\1006\1006 DS 001\TO 210 CADD\3 Sheets\11 Traffic Signals\3852008-sht-TS-Warrenville-1.dgn

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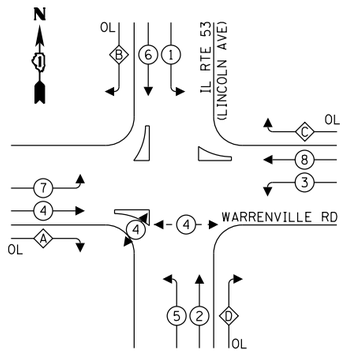
DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

TRAFFIC SIGNAL INSTALLATION
WARRENVILLE ROAD AND IL ROUTE 53

SCALE: 1"=10' | SHEET 1 OF 2 SHEETS | STA. 208+60 | TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	17
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EXISTING CONTROLLER SEQUENCE



LEGEND:

PROTECTED PHASE

PROTECTED/PERMITTED PHASE

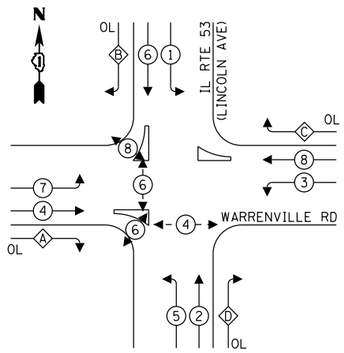
PEDESTRIAN PHASE

OVERLAP

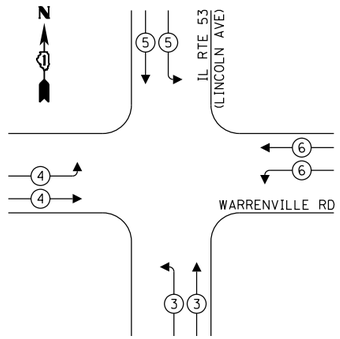
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	4	+	5
B	=	6	+	7
C	=	8	+	1
D	=	2	+	3

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTION	3	4	5	6
MOVEMENT				

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	17	50	170
(YELLOW)	20	25	25	125
(GREEN)	20	15	25	75
PERMISSIVE ARROW	16	12	10	19.2
PED. SIGNAL	8	25	100	200
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	714.2

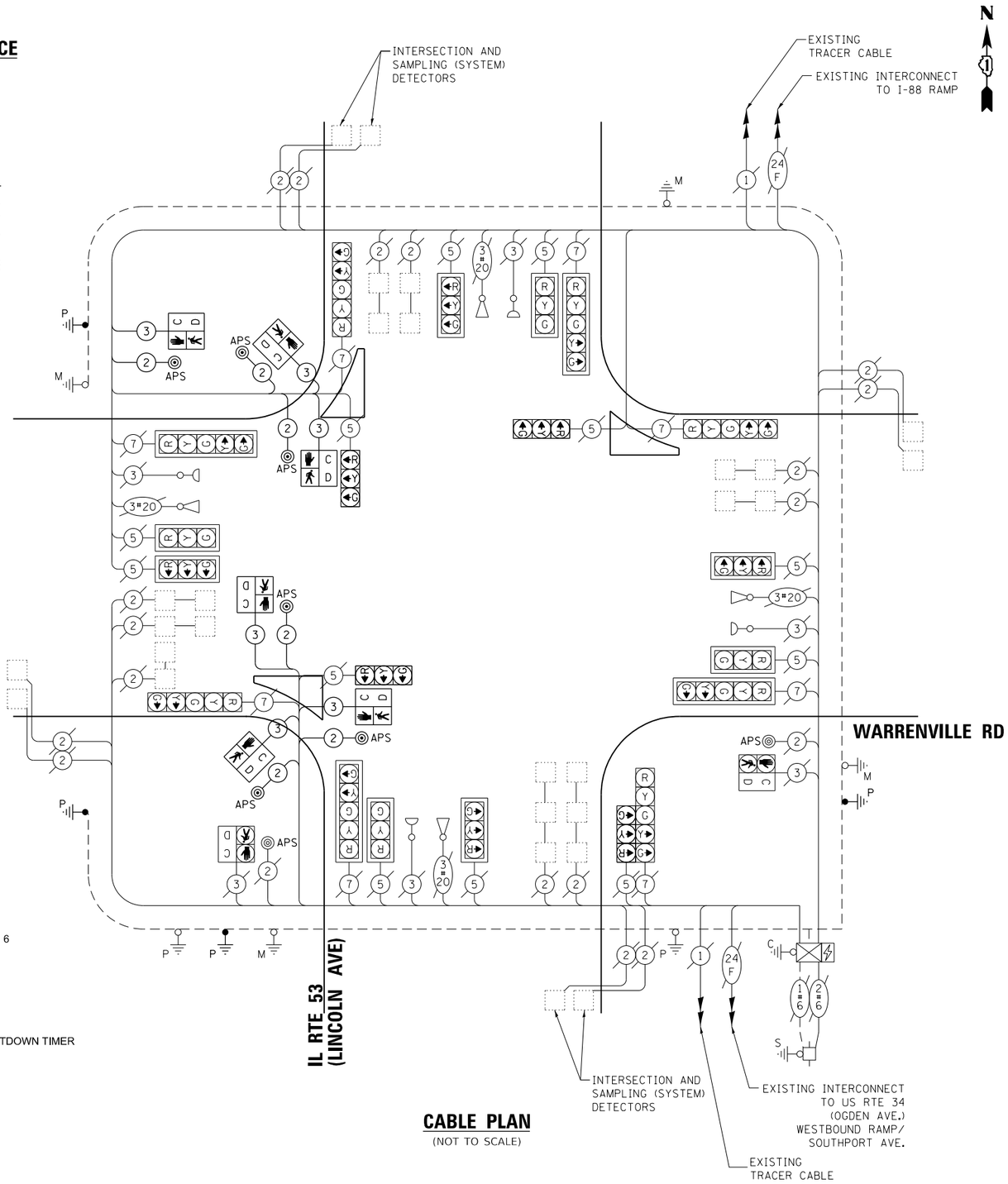
ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 W CENTER COURT/SCHAMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: MS DELORIS
PHONE: (630) 691-4379
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 16384-18118

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
60	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1688	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1718	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
76	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6
1	EACH	HANDHOLE
3	EACH	PEDESTRIAN SIGNAL POST, 10 FT
12	FOOT	CONCRETE FOUNDATION, TYPE A 12 INCH DIAMETER
6	EACH	PEDESTRIAN SIGNAL HEAD, LED. 1 FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	ACCESSIBLE PEDESTRIAN SIGNALS
3	EACH	DRILL EXISTING HANDHOLE
1	EACH	MODIFY EXISTING CONTROLLER
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT



CABLE PLAN

(NOT TO SCALE)

TS 11665

ECON 37

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

PROPOSED CABLE PLAN
WARRENVILLE ROAD AND IL ROUTE 53

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	18
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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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	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX	J	
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RC	RC
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	R Y G ◄Y ◄G (P)	R Y G ◄Y ◄G (P)
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G ◄Y ◄G (P) (RB)	R Y G ◄Y ◄G (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

MODEL: Default
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AEG ATLAS ENGINEERING GROUP, LTD.

USER NAME = footemj	DESIGNED - IP	REVISED -
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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	19
	TS–05	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

ts05.dgn 3/4/2019 11:21:59 AM User: footemj

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.

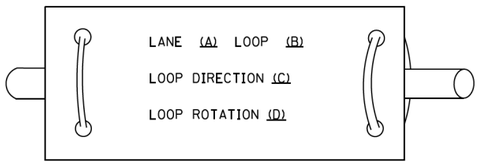
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

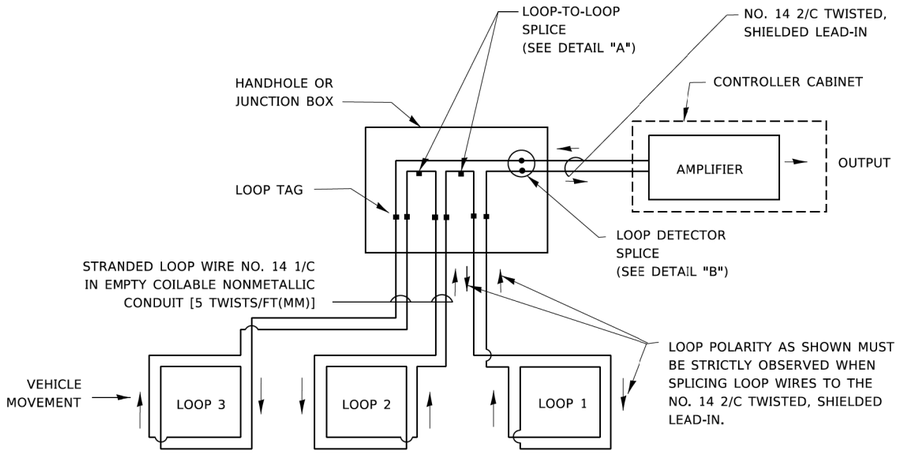


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

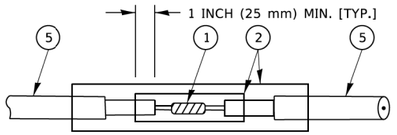
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

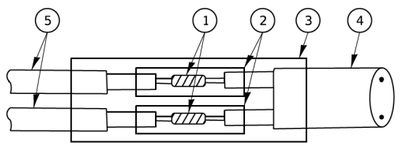


DETECTOR LOOP WIRING SCHEMATIC

- 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.

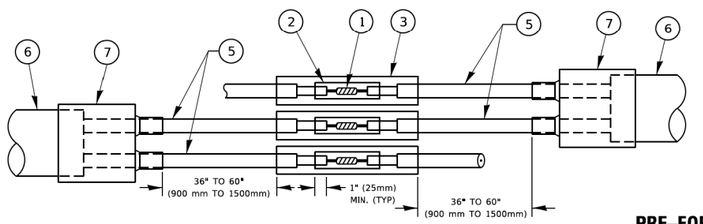


DETAIL "A"
LOOP-TO-LOOP SPLICE



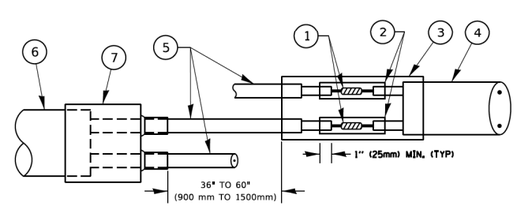
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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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AEG ATLAS ENGINEERING GROUP, LTD.	USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		DRAWN -	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	20
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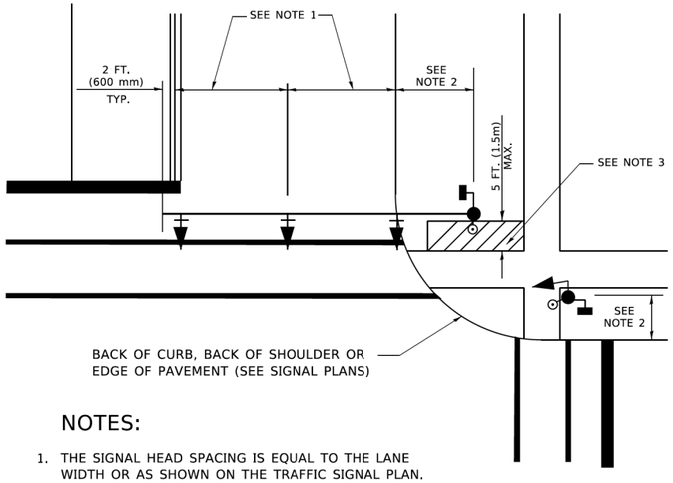
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

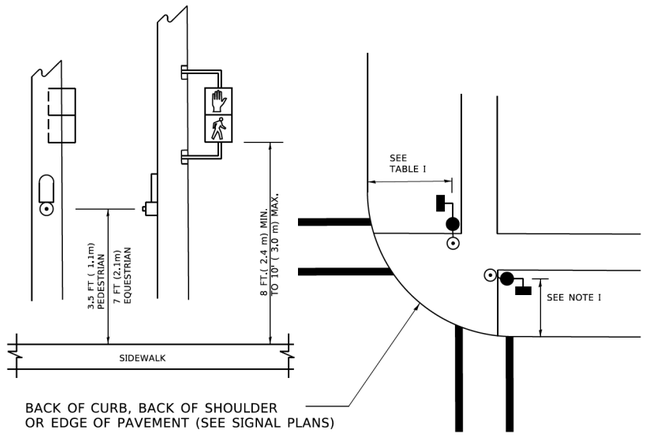
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

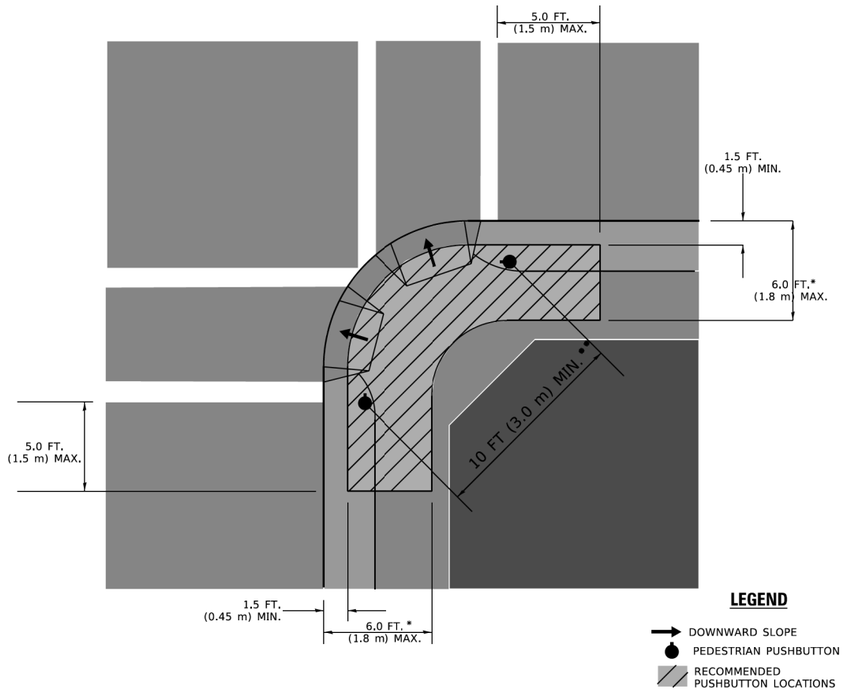
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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

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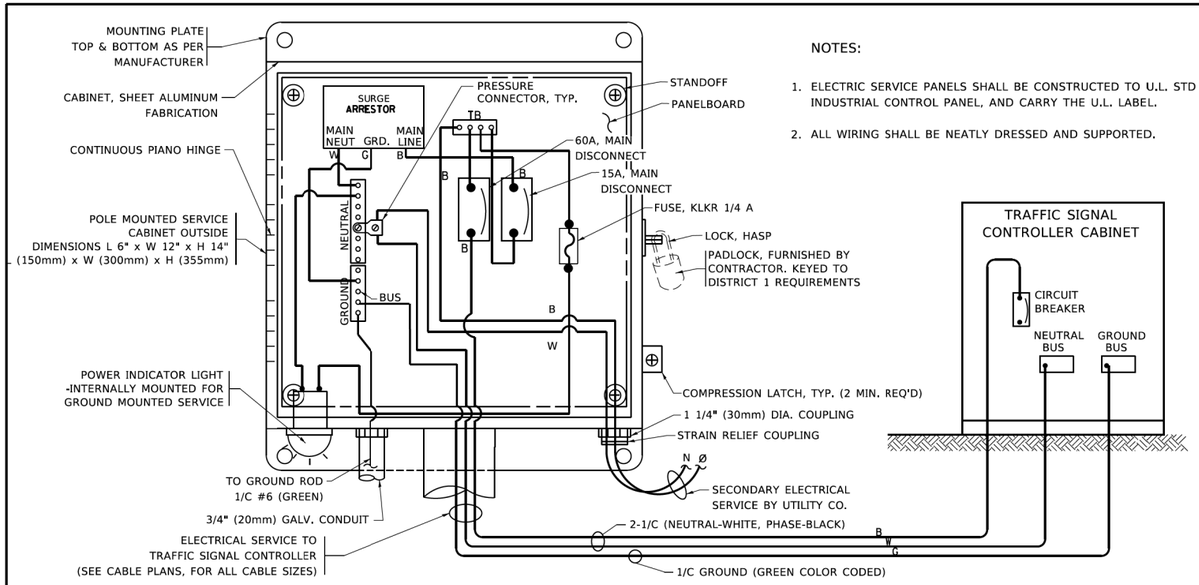
	ILLINOIS	FED. AID PROJECT		



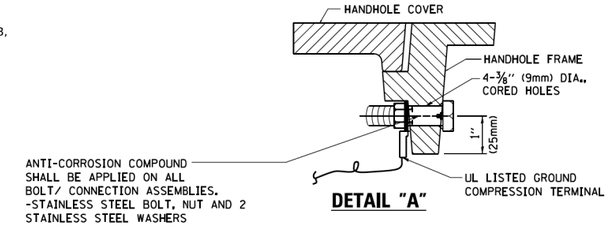
NOTES:

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.

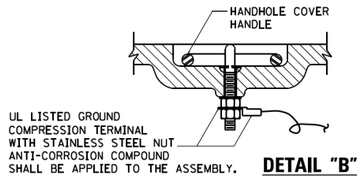
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

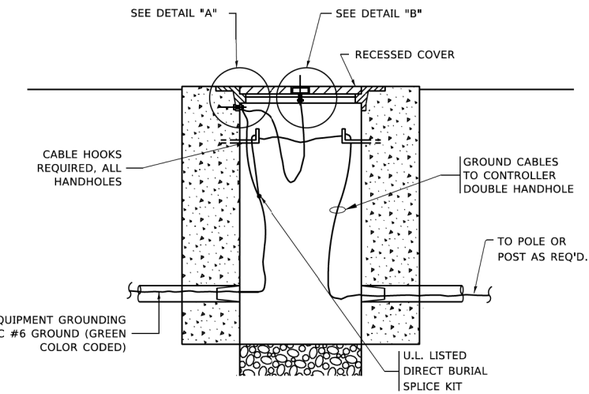


DETAIL "B"

NOTES:

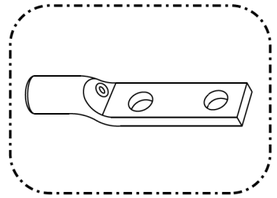
GROUNDING SYSTEM

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)

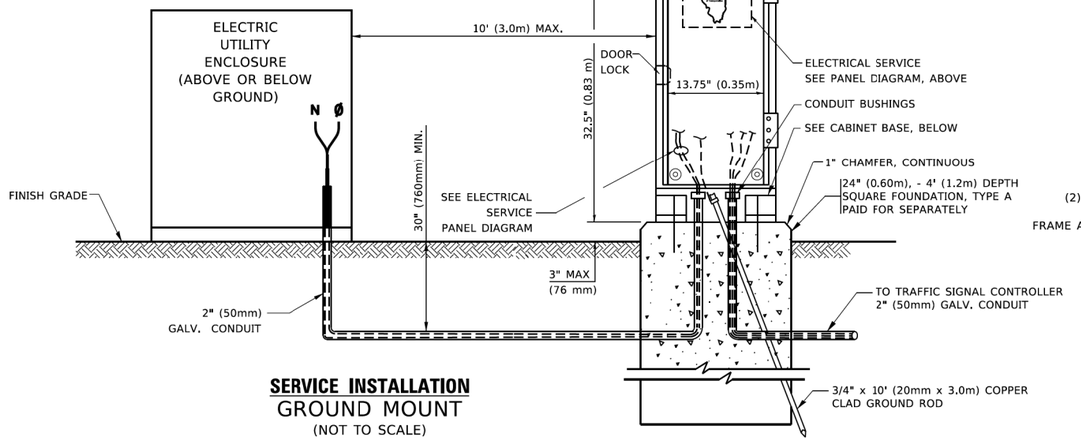


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

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

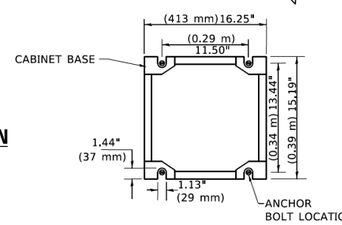
NOTES:

- 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.



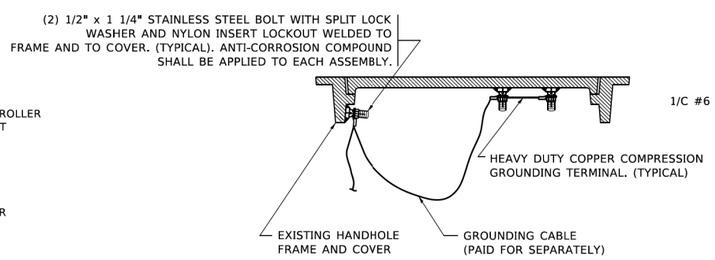
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



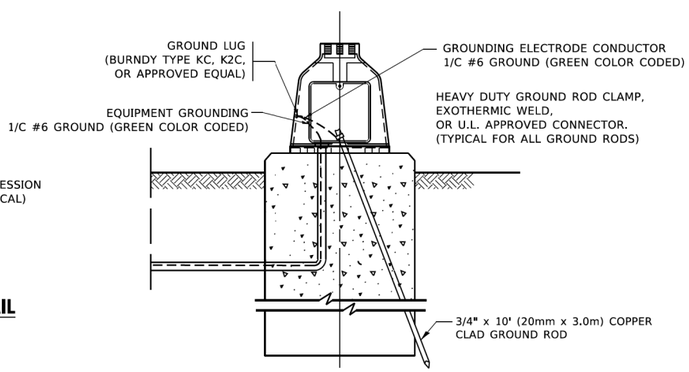
CABINET – BASE BOLT PATTERN

(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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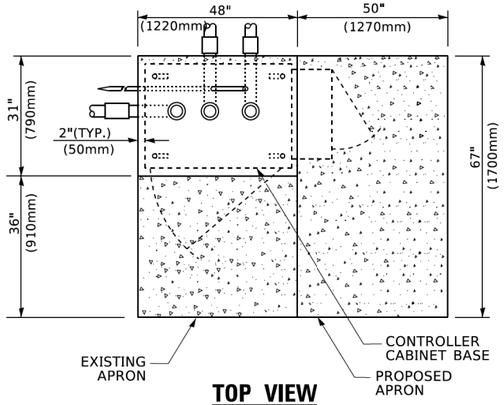
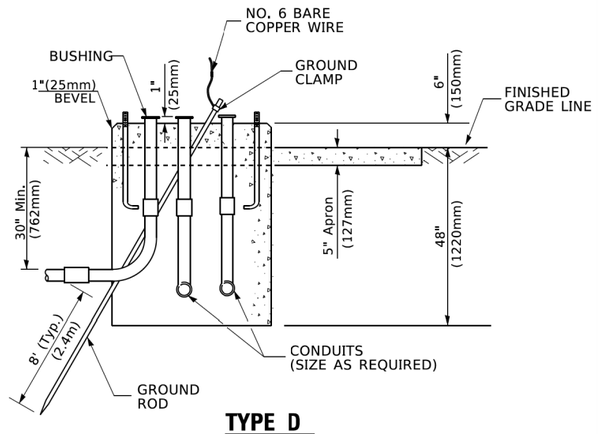
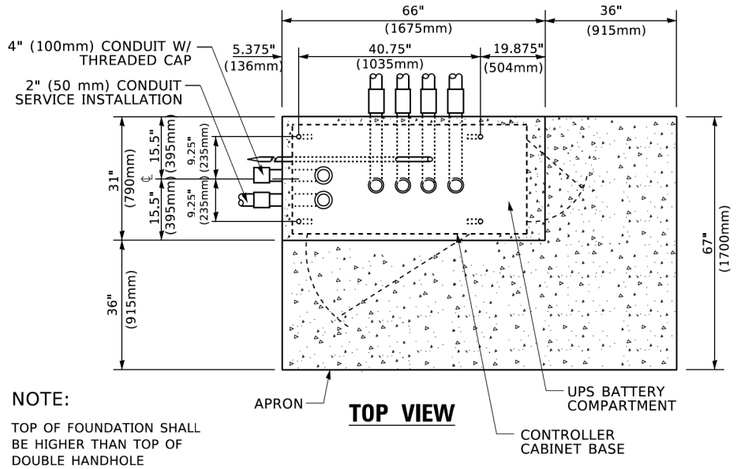


TOP VIEW



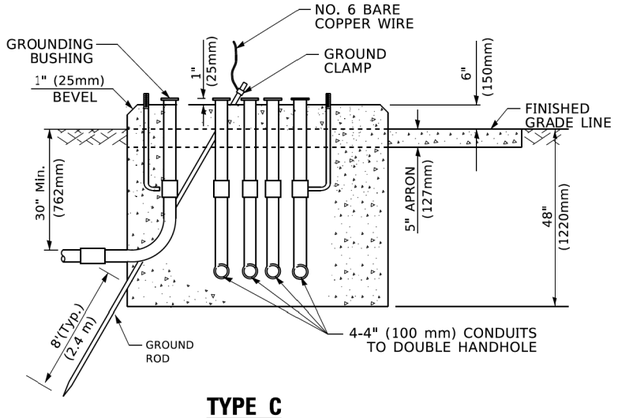
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



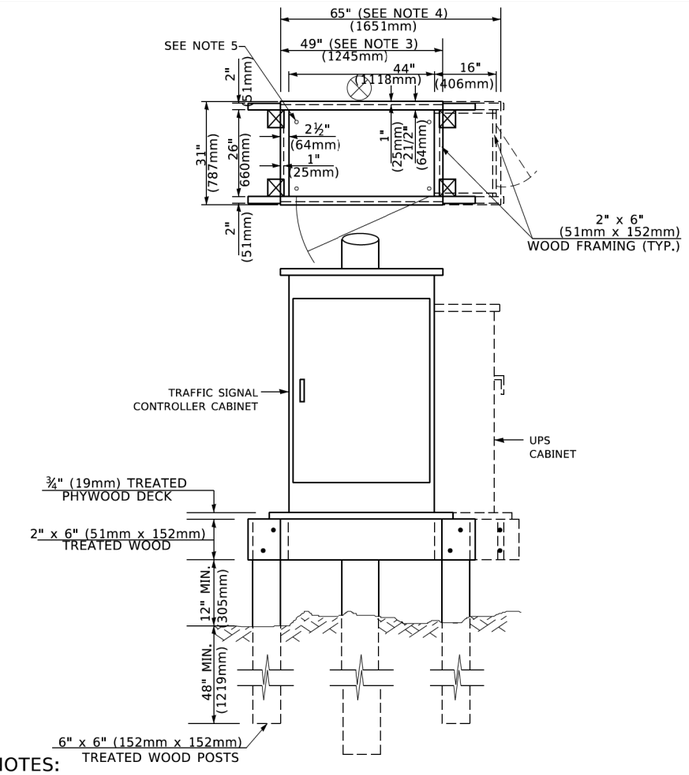
NOTE:

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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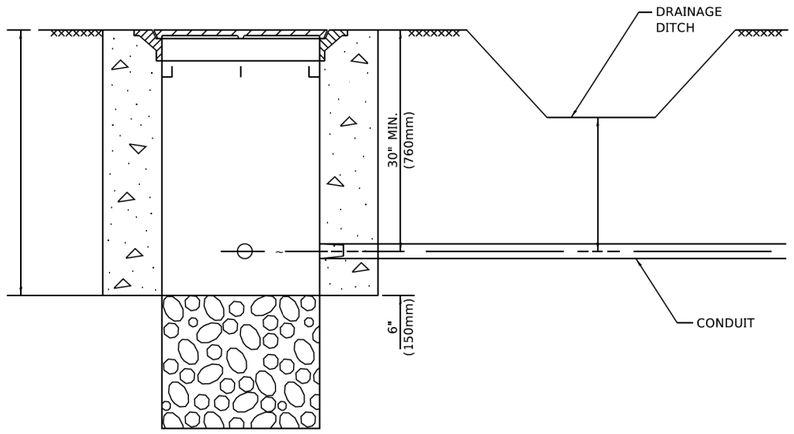
	TS-05	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

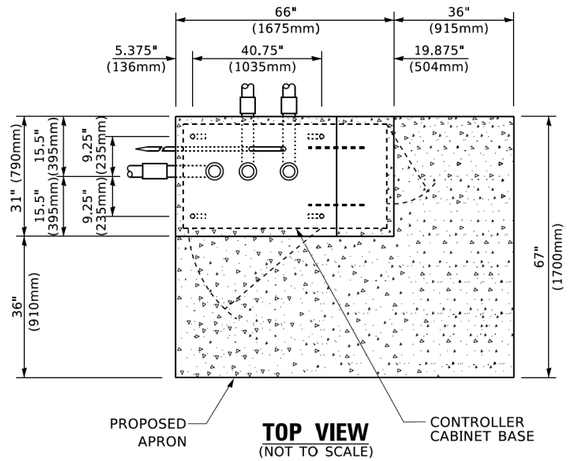


NOTES:

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.

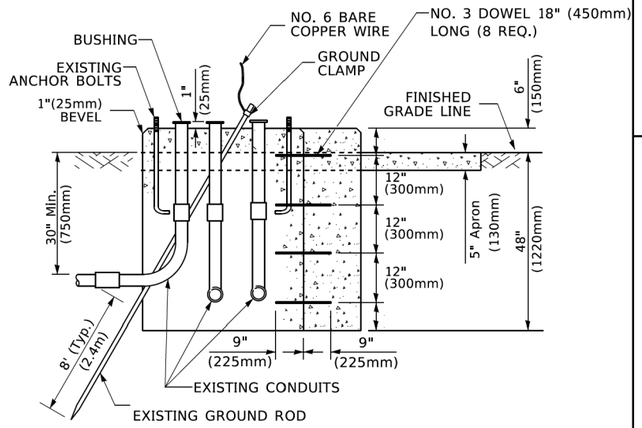
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



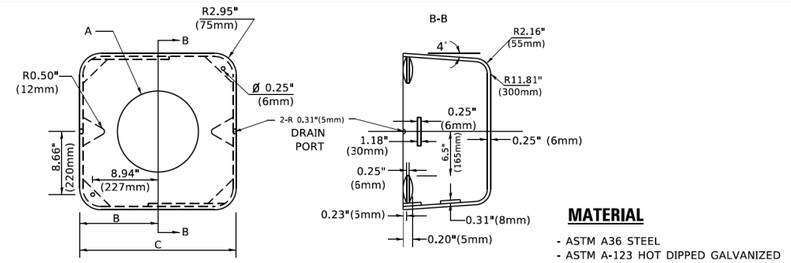
TOP VIEW

(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)

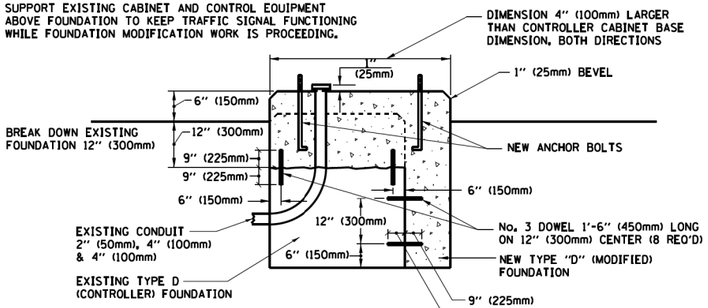
SHROUD

NOTES:

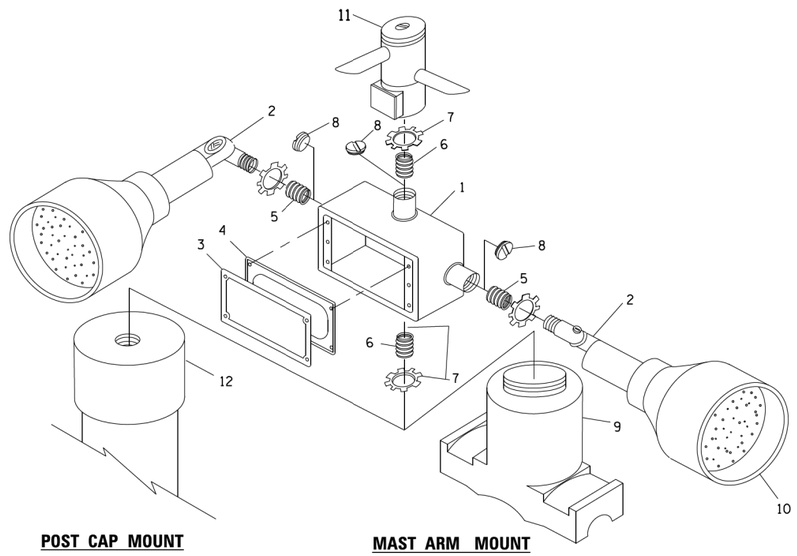
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



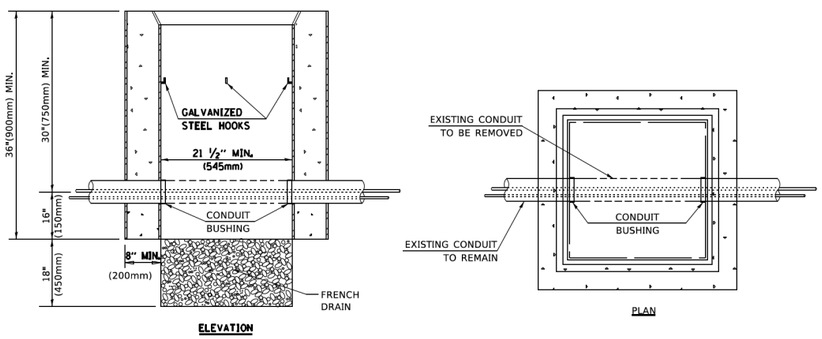
POST CAP MOUNT **MAST ARM MOUNT**

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



ELEVATION PLAN

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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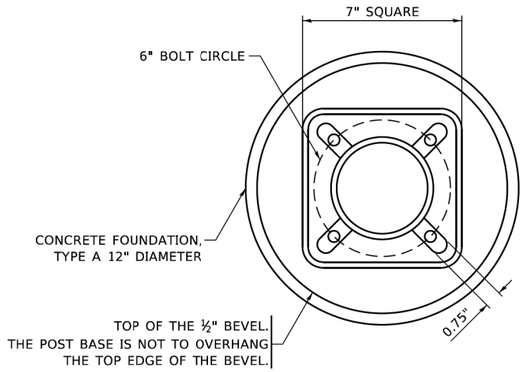
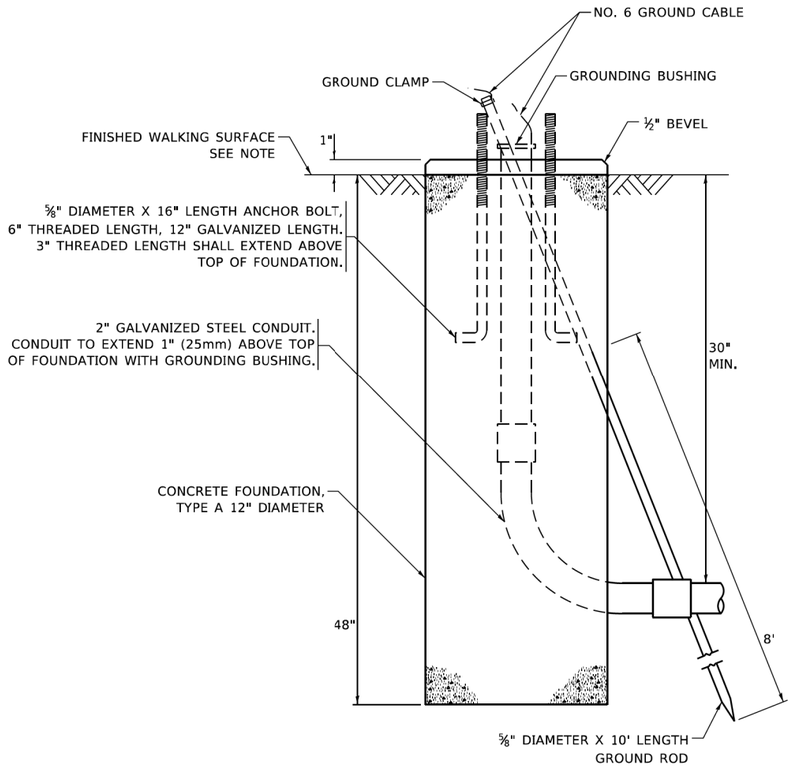


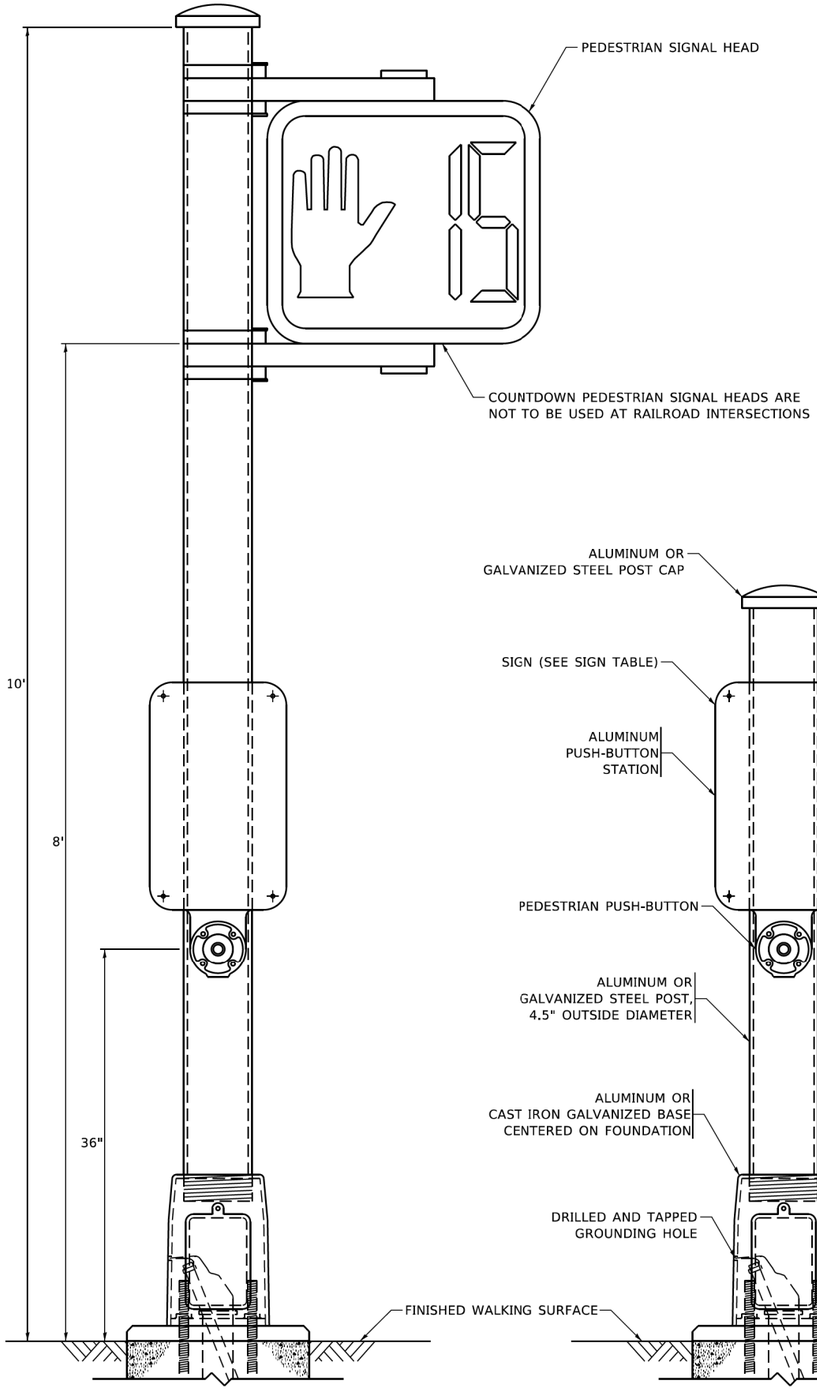
BOLT PATTERN

NOTE:

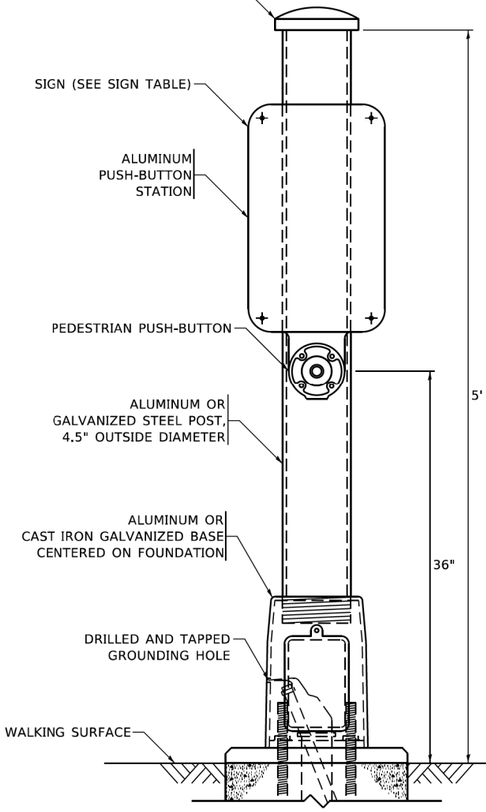
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



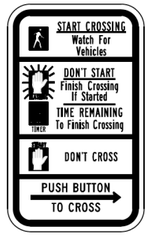
PEDESTRIAN SIGNAL POST, 10 FT.



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 12"

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

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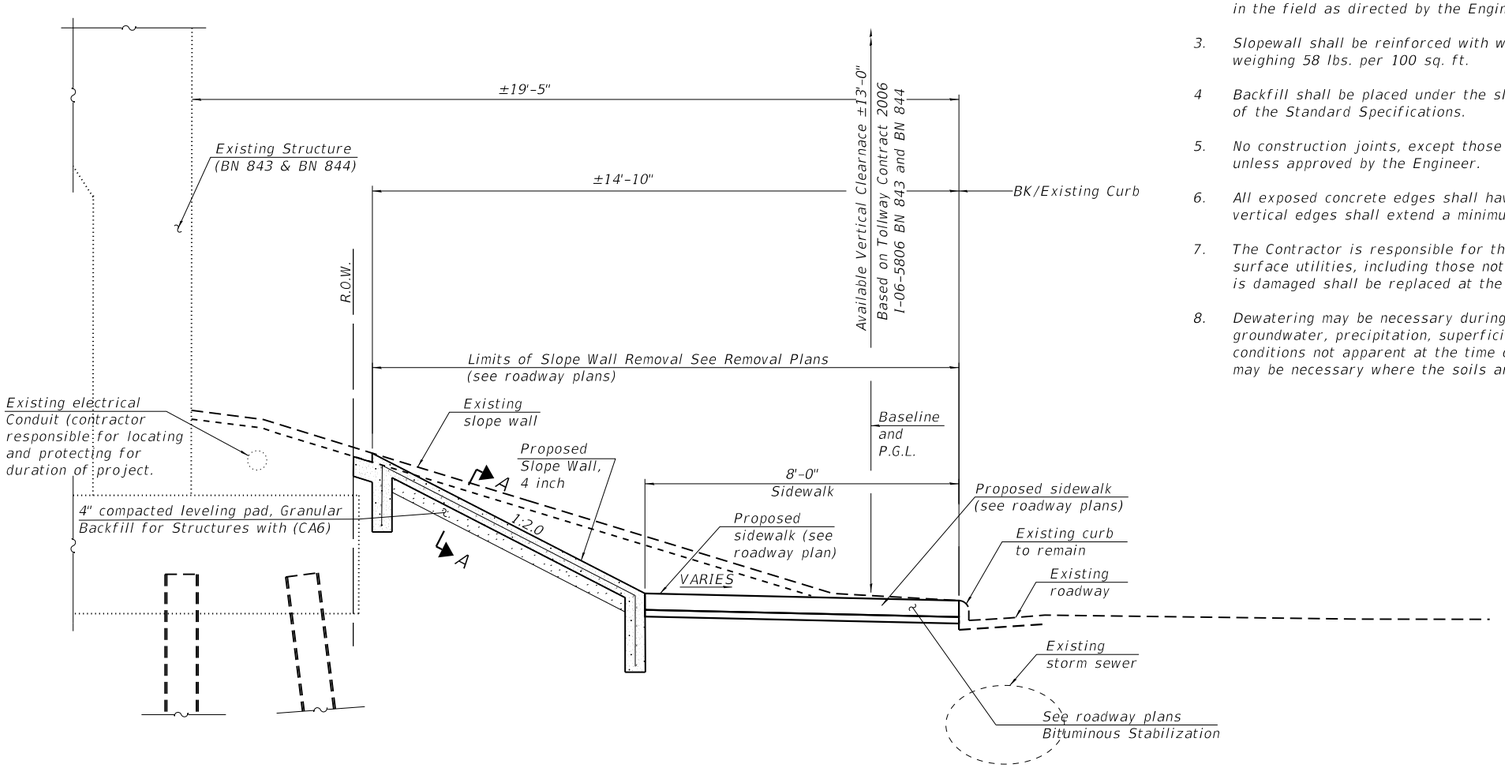


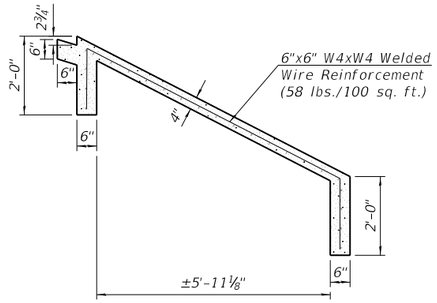
TYPICAL SECTION THRU SLOPE WALL AND SIDEWALK

GENERAL NOTES

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Layout of the slopewall may be varied to suit ground or existing conditions in the field as directed by the Engineer.
3. Slopewall shall be reinforced with welded wire fabric, 6"x6" – W4.0x W4.0, weighing 58 lbs. per 100 sq. ft.
4. Backfill shall be placed under the slope wall in accordance with Article 502.10 of the Standard Specifications.
5. No construction joints, except those shown on the plans, will be allowed unless approved by the Engineer.
6. All exposed concrete edges shall have a ¾"x45° chamfer. Chamfer on vertical edges shall extend a minimum of one foot below finished ground.
7. The Contractor is responsible for the protection of all underground or surface utilities, including those not shown in the plans. Any utility that is damaged shall be replaced at the expense of the contractor.
8. Dewatering may be necessary during excavation due to the pressure of shallow groundwater, precipitation, superficial runoff, and the precast of sandseams or other conditions not apparent at the time of drilling borings out shoring or trench boxes may be necessary where the soils are saturated or have low shear strengths.

ABBREVIATIONS

P.G.L.	Profile Grade Line
N.B.L.	North Bound Lanes
S.B.L.	South Bound Lanes
S.Abut	South Abutment
N.Abut	North Abutment
E.F.	Each Face
F.F.	Front Face
B.F.	Back Face
I.F.	Inside Face
O.F.	Outside Face
P.J.F.	Performed Joint Filler
P.J.S.	Performed Joint Sealer
BK/	Back of
B/	Bottom of
T/	Top of
Prop.	Proposed
Exist.	Existing
Theo.	Theoretical



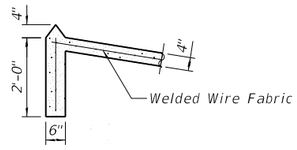
TYPICAL SECTION THRU SLOPEWALL

Backfill Legend:

Granular Backfill for Structures with (CA6)

TOTAL BILL OF MATERIAL

PAY ITEM DESCRIPTION	UNIT	TOTAL	RECORD QUANTITY
*Slope Wall Removal	SQ YD	367	
Structure Excavation	CU YD	199.8	
Protective Coat	SQ YD	190.8	
Slope Wall 4 Inch	SQ YD	190.8	
Granular Backfill for Structures	CU YD	18.4	



SECTION A-A

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENT

SLOPEWALL DETAILS AND GENERAL NOTES
WARRENVILLE ROAD

SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. | TO STA.

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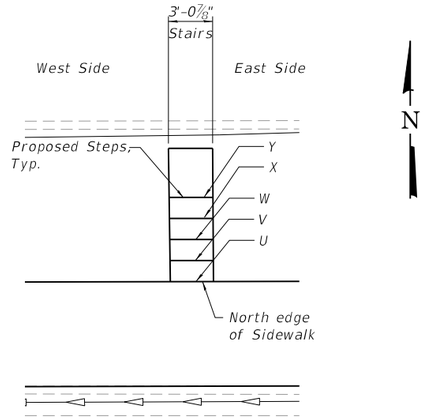


STAIR PLAN

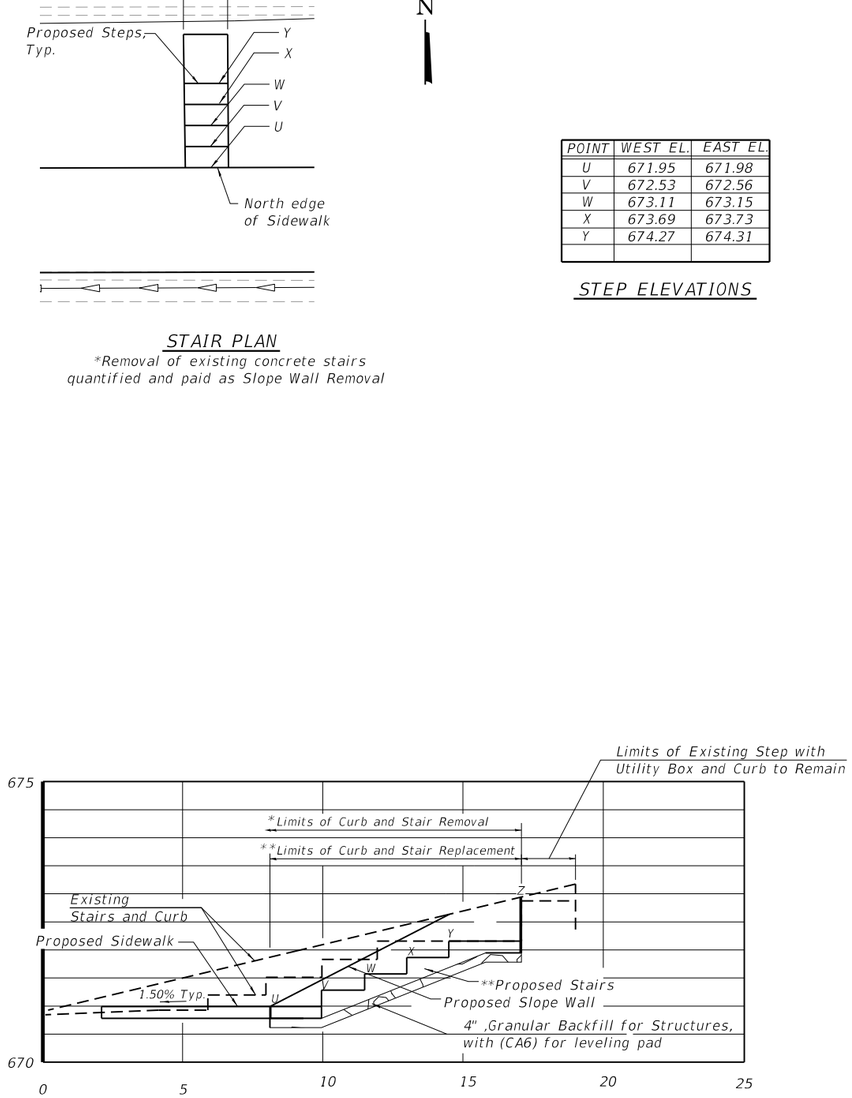
*Removal of existing concrete stairs quantified and paid as Slope Wall Removal

POINT	WEST EL.	EAST EL.
U	671.95	671.98
V	672.53	672.56
W	673.11	673.15
X	673.69	673.73
Y	674.27	674.31

STEP ELEVATIONS

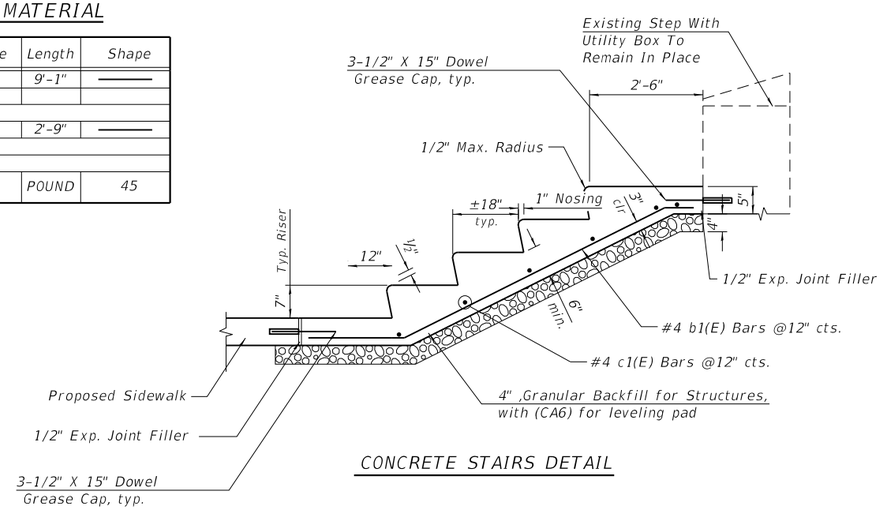
REBAR BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b1(E)	4	4	9'-1"	
c1(E)	11	4	2'-9"	
Reinforcement Bars, Epoxy Coated		POUND	45	



STAIR ELEVATION

*Area Quantified and paid as Slope Wall Removal
**Area Quantified and paid as Concrete Structures



CONCRETE STAIRS DETAIL

UTILITY STAIRCASE BILL OF MATERIALS

PAY ITEM DESCRIPTION	UNIT	TOTAL	RECORD QUANTITY
Concrete Structures	CU YD	1.0	
Reinforcement Bars, Epoxy Coated	POUND	45	

Note:
Utility Staircase BOM for information only.
Quantities included in Total BOM (see STR Sheet 2)
*Concrete stairs included in cost of Concrete Structures.

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DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENT

UTILITY STAIRCASE RECONSTRUCTION
WARRENVILLE ROAD

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

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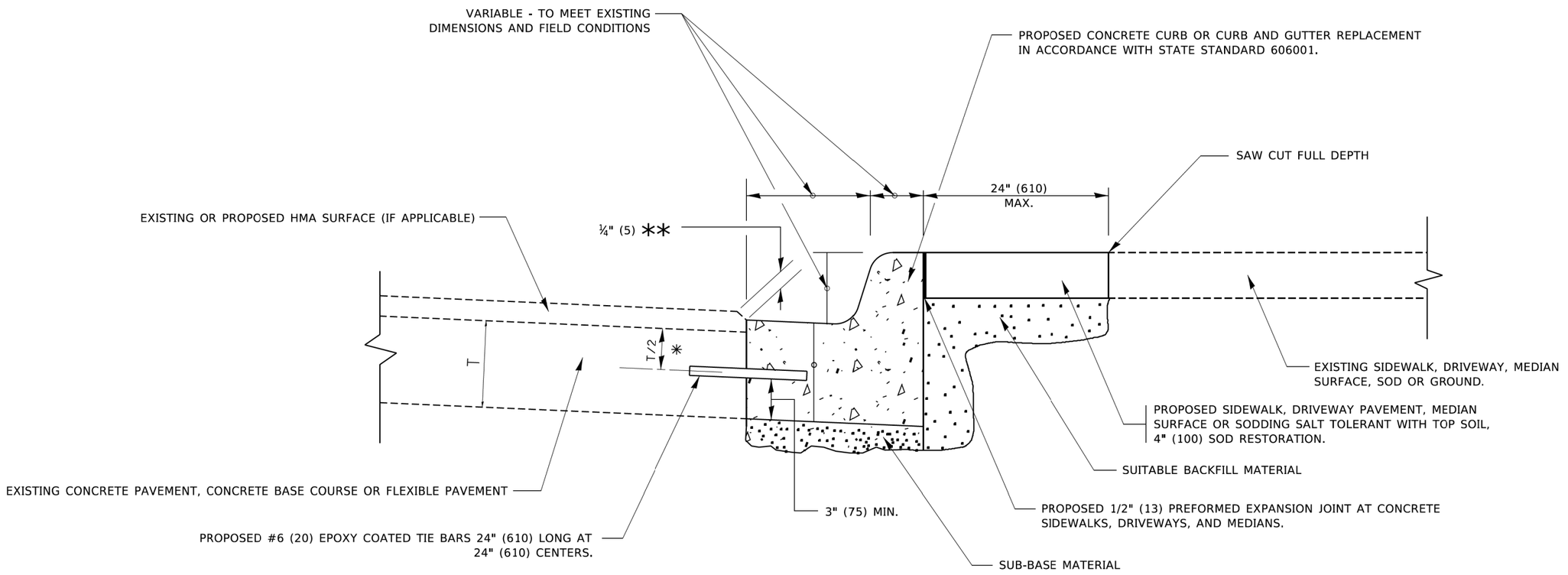


* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

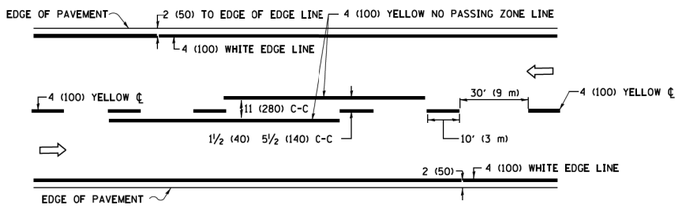
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

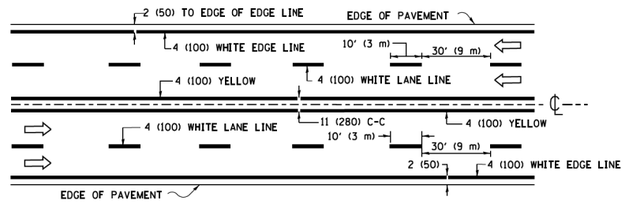
MODEL: Default
FILE NAME: pw:\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Std22x34\CADData\CADsheets\bd24.dgn

AEG ATLAS ENGINEERING GROUP, LTD.	USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
		DRAWN -	REVISED - M. GOMEZ 01-22-01		SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09		
	PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19		

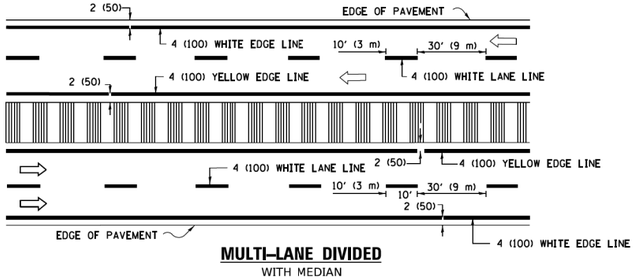
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	28
	BD600–06 (BD–24)	CONTRACT NO.		
	ILLINOIS | FED. AID PROJECT			



2–LANE ROADWAY

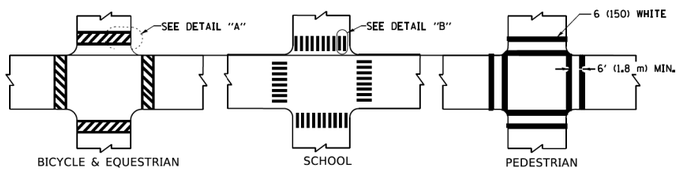


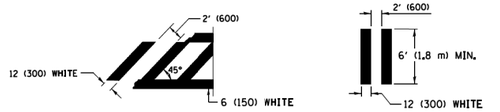
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

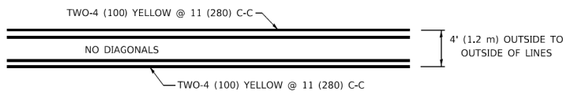




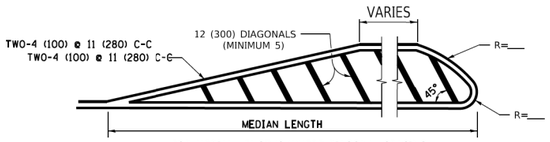
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



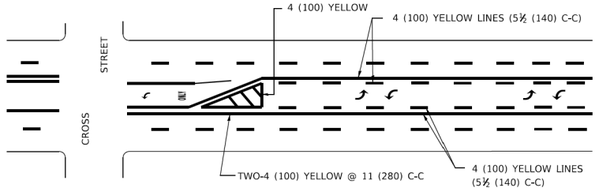
4' (1.2 m) WIDE MEDIANS ONLY



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))

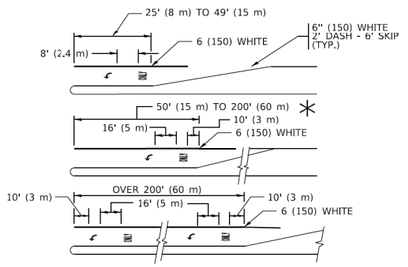
MEDIANS OVER 4' (1.2 m) WIDE



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

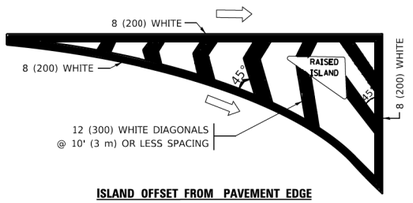


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

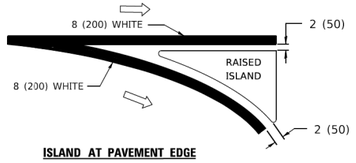
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

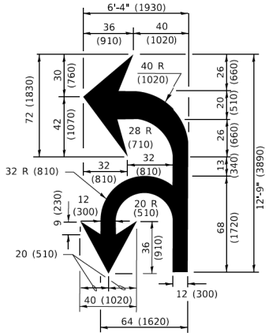


ISLAND OFFSET FROM PAVEMENT EDGE

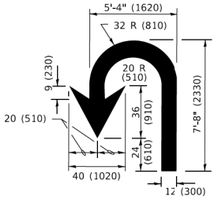


ISLAND AT PAVEMENT EDGE

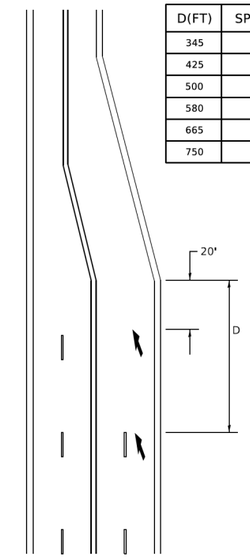
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

MODEL: Default
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AEG ATLAS ENGINEERING GROUP, LTD.

USER NAME = footemj		DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09		
		DRAWN -	REVISED - C. JUCIUS 07-01-13		
PLOT SCALE = 50.0000 ' / in.		CHECKED -	REVISED - C. JUCIUS 12-21-15		
PLOT DATE = 3/4/2019		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	29
	TC–13	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

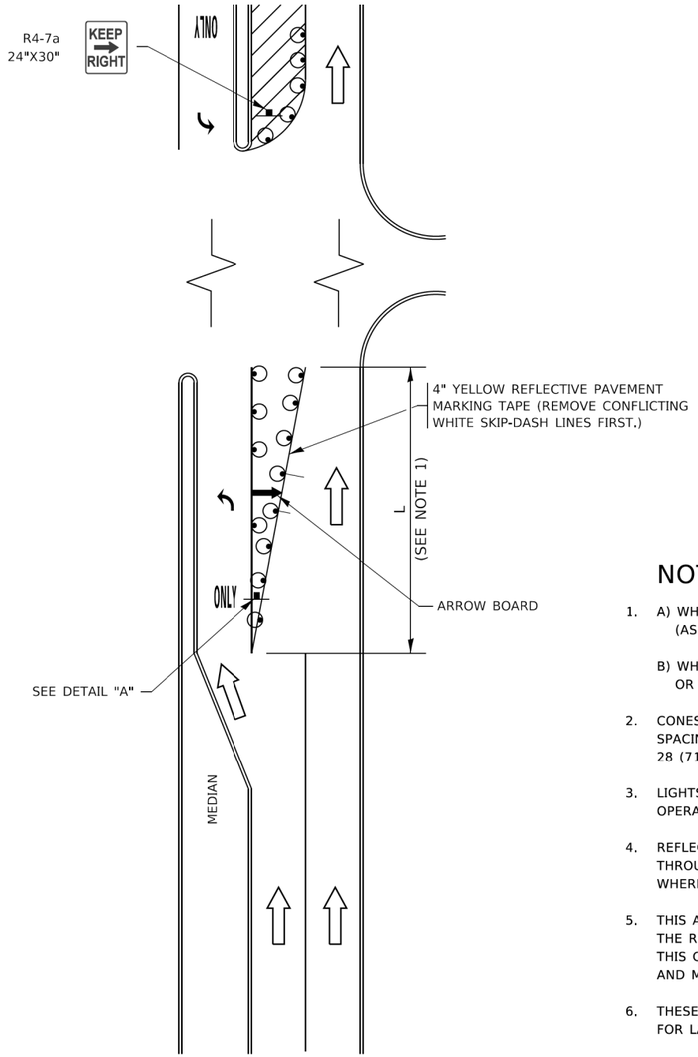


FIGURE 1

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

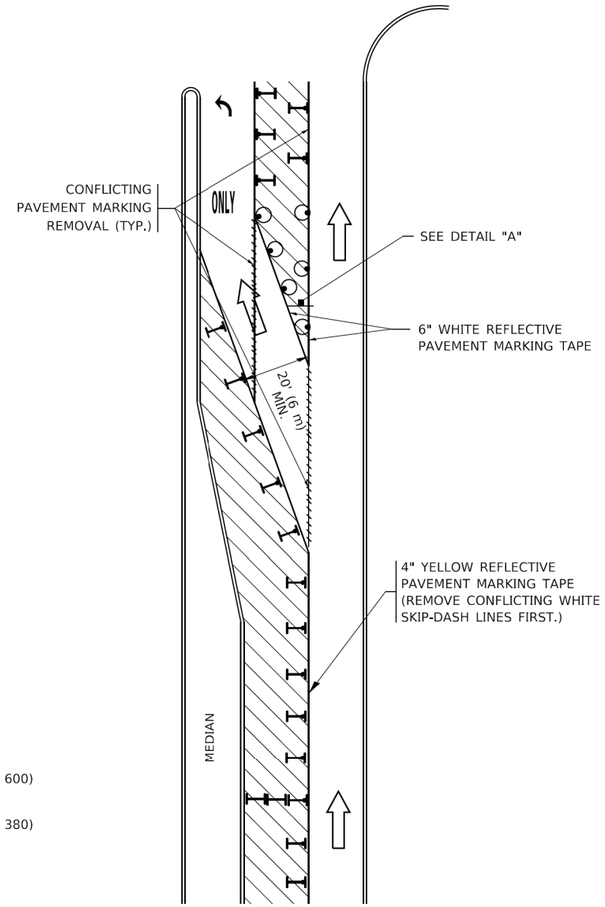
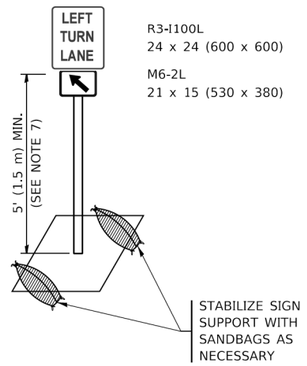


FIGURE 2



DETAIL A

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

MODEL: Default
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AEG ATLAS ENGINEERING GROUP, LTD.	USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
		DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13		
	PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		
	PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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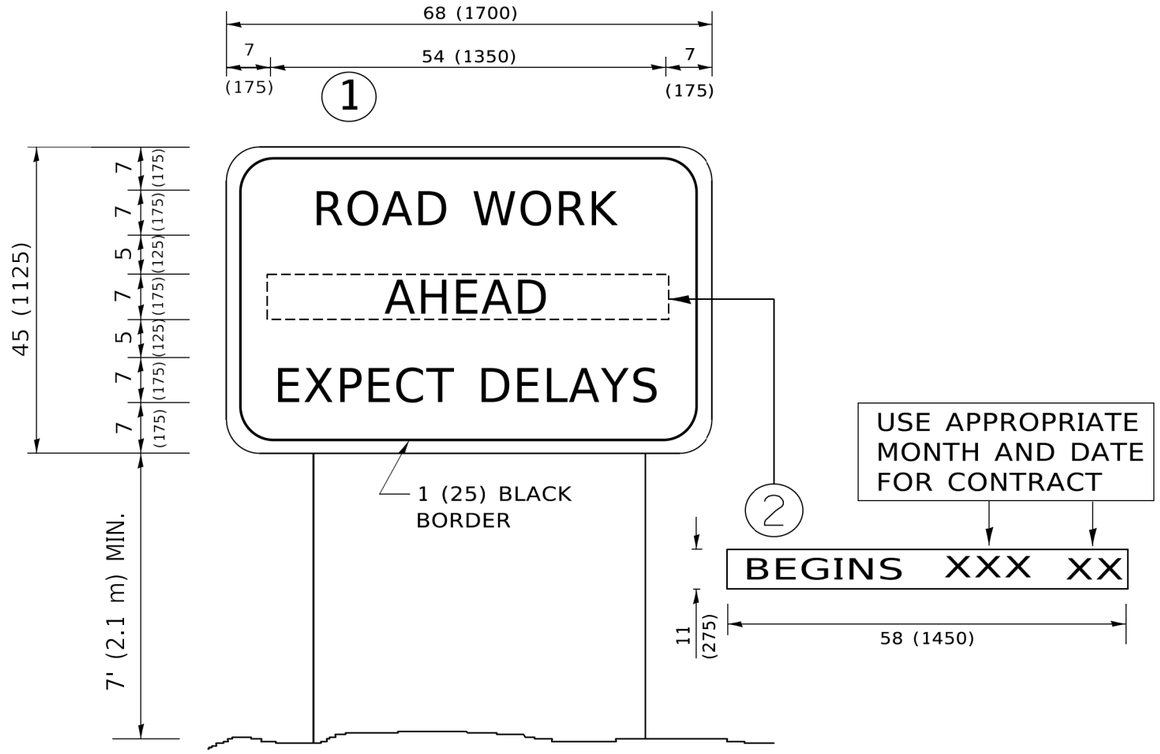
	TC-14	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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.

MODEL: Default
FILE NAME: pw:\\IL084EBDINTEG.Illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist1Sd22x34\CADData\CADSheets\tc22.dgn

AEG ATLAS ENGINEERING GROUP, LTD.

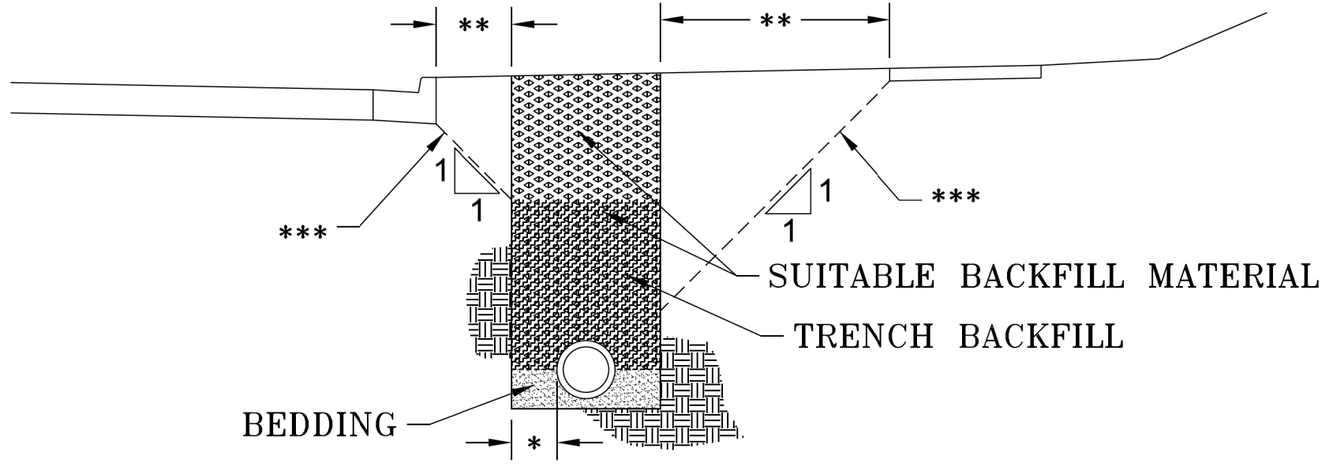
USER NAME = footemj	DESIGNED -	REVISED -	R. MIRS 09-15-97
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED -	C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	31
	TC–22	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



* TRENCH WIDTH PER ARTICLE 550.04 OF THE STANDARD SPECIFICATIONS. WHERE THE TRENCH WIDTH IS WIDER, THE ADDITIONAL TRENCH BACKFILL SHALL BE AT THE CONTRACTOR'S EXPENSE.

*** LINE OF INFLUENCE:
USE TRENCH BACKFILL MATERIAL FOR THE FULL WIDTH OF THE TRENCH WHEN THE INNER EDGE OF THE TRENCH IS BELOW A LINE EXTENDING 1H:1V FROM THE EDGE OF PAVEMENT, CURB, GUTTER, CURB AND GUTTER, STABILIZED SHOULDER, OR SIDEWALK.

DuPAGE COUNTY TRENCH BACKFILL DETAIL

1/31/2018
DuPAGE COUNTY D.O.T.

MODEL: Default
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ATLAS ENGINEERING GROUP, LTD.
3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = ehuang	DESIGNED - BJ	REVISED -	
	DRAWN - EH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - BA	REVISED -	
PLOT DATE = 2/7/2023	DATE - 2-7-23	REVISED -	

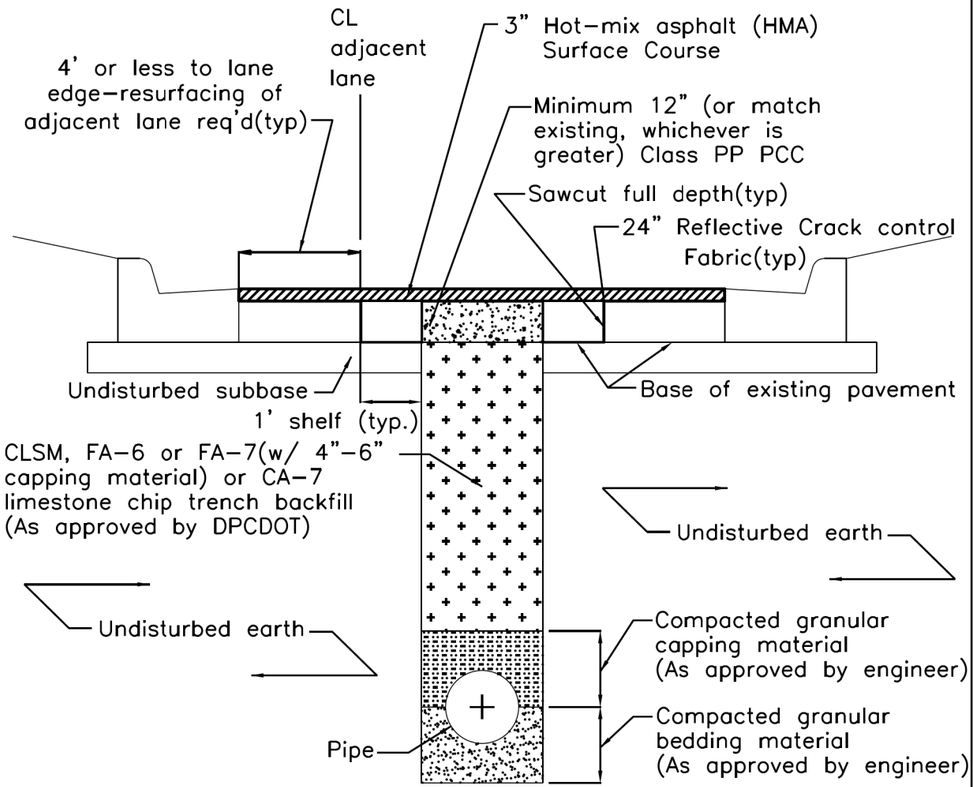
DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

DUPAGE COUNTY
TRENCH BACKFILL DETAIL

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	32
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

DUPAGE COUNTY DIVISION OF TRANSPORTATION
TRENCH BACKFILL STANDARD IN PAVED AREAS



Notes:

1. All materials per IDOT's "Standard Specifications for Road & Bridge Construction" (latest edition) and "Supplemental Recurring Special Provisions" (latest edition).

2. Replace all pavement markings, striping, symbols and pavement markers in kind.

MODEL: Default
FILE NAME: pw:\atlas-pw.bentley.com:atlas-pw-01\Documents\Projects\1006\1006 DS 001\TO 2\10 CAD\3 Sheets\14 StandardDrawings\3852008-sht-Details.dgn

AEG ATLAS ENGINEERING GROUP, LTD.
3100 Dundee Road, Suite 502 | Northbrook, IL 60062
847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE - 2-7-23	REVISED -

DUPAGE COUNTY DIVISION OF TRANSPORTATION
2020 SIDEWALK IMPROVEMENTS

DUPAGE COUNTY
TRENCH BACKFILL DETAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW	DUPAGE	38	33
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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680 | 680 | 690 | 690 | 690 | 690

675 | 675 | 685 | 685 | 685 | 685

669.59 670.26 670.35 670.38

-1.50%

670 | 670 | 680 | 680 | 680 | 680

C = 0.00 Sq. Ft.
F = 0.00 Sq. Ft.

665 | 665 | 675 | 675 | 675 | 675

670.60 670.51 670.48

1:2

1.50%

660 | 660 | 670 | 670 | 670 | 670

201 + 00.00

C = 3.03 Sq. Ft.
F = 0.00 Sq. Ft.

665 | 665 | **201 + 50.00** | 665 | 665

670.71 670.62 670.59

1:2

1.50%

C = 2.98 Sq. Ft.
F = 0.00 Sq. Ft.

202 + 00.00

20 15 10 5 0 5 10 15 20 | 20 15 10 5 0 5 10 15 20 | 20 15 10 5 0 5 10 15 20 | 20 15 10 5 0 5 10 15 20

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

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

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AEG ATLAS ENGINEERING GROUP, LTD.

USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARRENVILLE PROPOSED SIDEWALK
CROSS SECTIONS

SCALE: 1" = 10' | SHEET 1 OF 5 SHEETS | STA. 200+00.00 | TO STA. 202+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW		38	34
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY

NOTE BOOK

NO.

ORIGINAL SURVEY

NOTE BOOK

NO.

MODEL: Default
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20 15 10 5 0 5 10 15 20 20 15 10 5 0 5 10 15 20 20 15 10 5 0 5 10 15 20 20 15 10 5 0 5 10 15 20

695 695

690 690 690 690 690 690 690

685 685 685 685 685 685 685

680 680 680 680 680 680 680

675 675 675 675 675 675 675

670 670 670 670 670 670 670

665 665 665 665

1:2 1:2 1:2

1.50% 1.50% 1.50%

670.92 670.83 670.80

671.25 671.16 671.13

671.81 671.72 671.69

C = 3.26 Sq. Ft.
F = 0.00 Sq. Ft.

202 + 50.00

C = 3.26 Sq. Ft.
F = 0.00 Sq. Ft.

203 + 00.00

C = 2.25 Sq. Ft.
F = 0.00 Sq. Ft.

203 + 50.00

20 15 10 5 0 5 10 15 20 20 15 10 5 0 5 10 15 20 20 15 10 5 0 5 10 15 20 20 15 10 5 0 5 10 15 20

AEG ATLAS ENGINEERING GROUP, LTD.

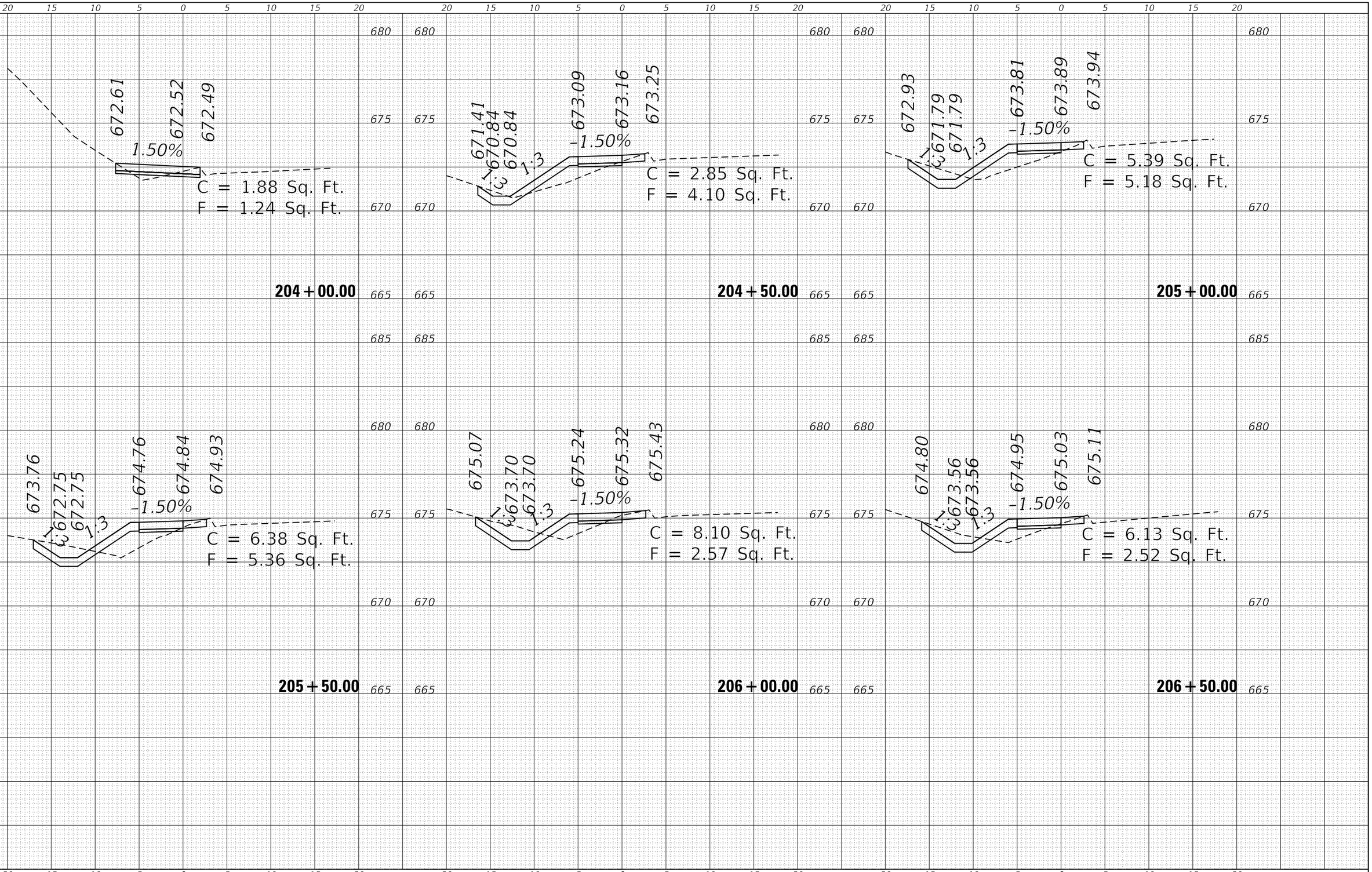
USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARRENVILLE PROPOSED SIDEWALK
CROSS SECTIONS

SCALE: 1" = 10' | SHEET 2 OF 5 SHEETS | STA. 202+00.00 | TO STA. 204+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW		38	35
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

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AEG ATLAS ENGINEERING GROUP, LTD.

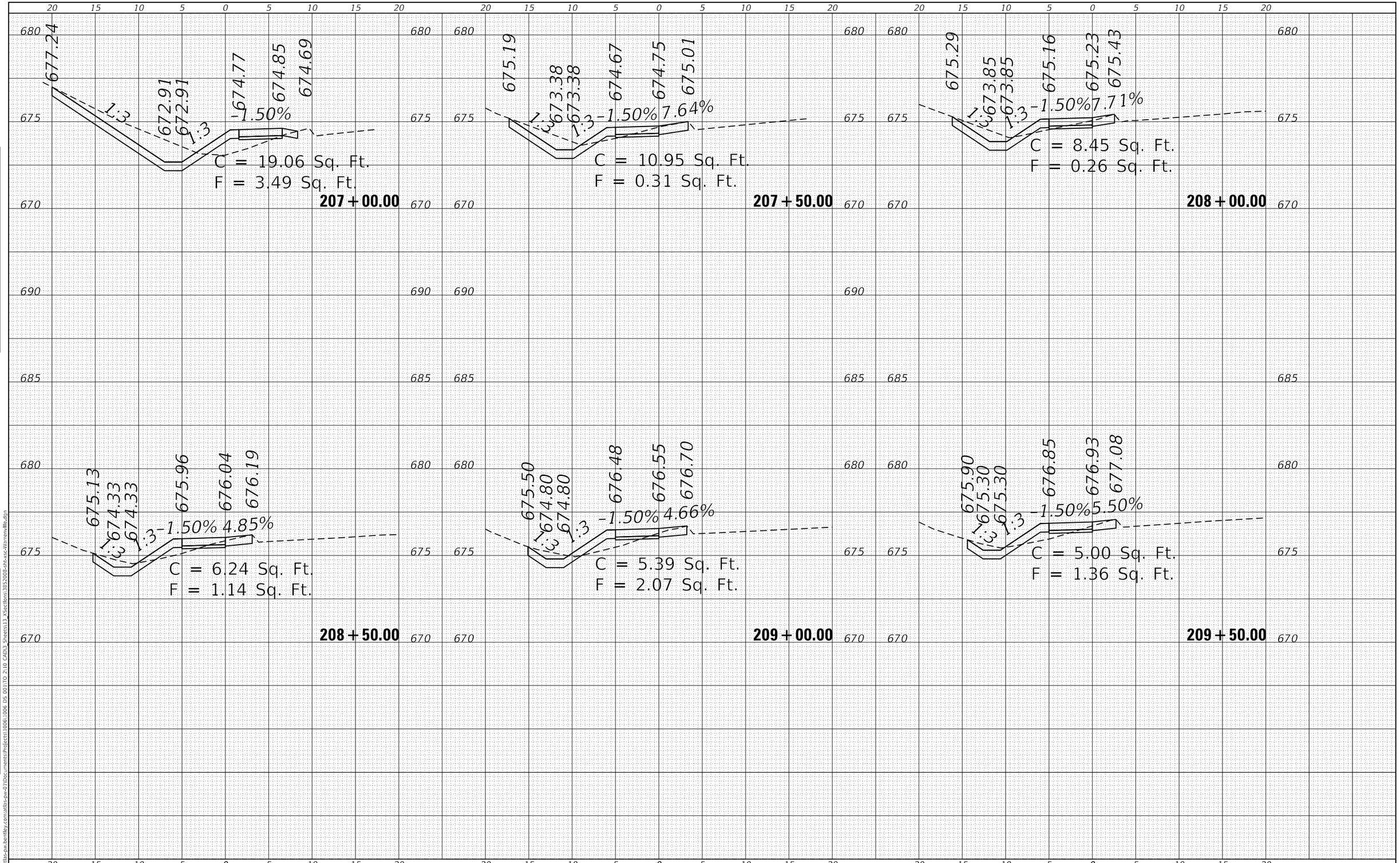
USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARRENVILLE PROPOSED SIDEWALK
CROSS SECTIONS

SCALE: 1" = 10' | SHEET 3 OF 5 SHEETS | STA. 204+00.00 | TO STA. 206+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW		38	36
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

BY	DATE

MODEL: Default
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AEG ATLAS ENGINEERING GROUP, LTD.

USER NAME = ehuang	DESIGNED - BJ	REVISED -
	DRAWN - EH	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 2/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARRENVILLE PROPOSED SIDEWALK
CROSS SECTIONS

SCALE: 1" = 10' | SHEET 4 OF 5 SHEETS | STA. 207+00.00 TO STA. 209+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW		38	37
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

20 15 10 5 0 5 10 15 20

685

680

675

670

665

676.09

675.81

677.63

677.71

677.86

-1.50%

5.02%

1:3

C = 3.80 Sq. Ft.

F = 1.58 Sq. Ft.

210 + 00.00

20 15 10 5 0 5 10 15 20

FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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PLOT DATE = 2/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARRENVILLE PROPOSED SIDEWALK
CROSS SECTIONS

SCALE: 1" = 10' | SHEET 5 OF 5 SHEETS | STA. 210+00.00 | TO STA. 210+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-SDWLK-05-SW		38	38
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		