06-12-2020 LETTING ITEM 005 FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF WAUKEGAN

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

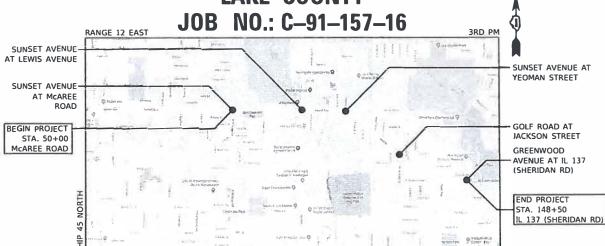
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 1215 SUNSET AVENUE FAU 1215 GOLF ROAD FAU 1217 GREENWOOD AVENUE McAREE ROAD TO IL 137 (SHERIDAN RD) TRAFFIC SIGNAL MODERNIZATION AND FIBER OPTIC COMMUNICATION SYSTEM

PROJECT NO.: Q5RM(365) SECTION: 12-00999-30-TL

LAKE COUNTY



DESIGN DESIGNATION

CLASSIFICATION:

SUNSET AVENUE (FAU 1215) = MINOR ARTERIAL GOLF ROAD (FAU 1215) = MINOR ARTERIAL GREENWOOD AVENUE (FAU 1217) = MINOR ARTERIAL

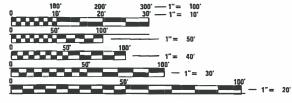
ADT:

SUNSET AVENUE = 14,000 .(2015) GOLF ROAD = 12,00 (2015)**GREENWOOD AVENUE** = 7,450 (2015)

POSTED SPEED LIMIT: SUNSET AVENUE = 30MPH

GOLF ROAD = 30MPH

GREENWOOD AVENUE = 30MPH



FULL SIZE PLANS HAVE REEN 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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1--800--892--0123

ASSOCIATES, INC.

625 Forest Edge Drive Vernon Hills, IL. 60061 Consulting Engineers & Surveyors PH: 847-478-9700 FAX: 847-478-9701

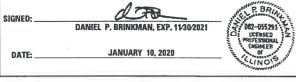
CONTRACT NO. 61G47

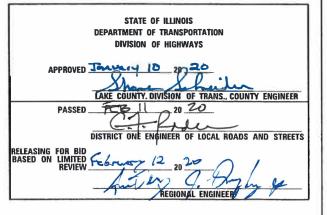
GROSS LENGTH = 14,850 FT. = 2.81 MILE NET LENGTH = 14.850 FT. = 2.81 MILE

WAUKEGAN TOWNSHIP

SECTION 12-00999-30-TI LAKE 69 1







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SCHAUMBURG, PE RAMOS, CARMEN

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INDEX OF SHEETS NUMBER SHEET TITLE NUMBER SHEET TITLE 1 TITLE SHEET 52 TEMPORARY INTERCONNECT SCHEMATIC - SUNSET AVENUE / GOLF ROAD / GREENWOOD AVENUE FROM McAREE ROAD TO IL 137 (SHERIDAN RD) INDEX OF SHEETS, HIGHWAY STANDARDS, POINTS OF CONTACT, AND CONTROL POINTS 53-54 INTERCONNECT PLAN - SUNSET AVENUE / GOLF ROAD / GREENWOOD AVENUE FROM McAREE ROAD TO IL 137 (SHERIDAN RD) GENERAL NOTES 55-57 INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES - SUNSET 4-11 SUMMARY OF QUANTITIES AVENUE / GOLF ROAD / GREENWOOD AVENUE FROM McAREE ROAD TO IL 137 (SHERIDAN RD) 12-18 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS FIBER SPLICING DIAGRAM SUNSET AVENUNE - FROM IL 131 (GREEN BAY TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING RD) TO IL 137 (SHERIDAN RD) TRAFFIC SIGNAL EQUIPMENT PLAN SUNSET AVENUE AND McAREE ROAD 59 TEMPORARY 108A CABINET DETAIL SUNSET AVENUE AND LEWIS AVENUE TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE SUNSET AVENUE PROPOSED 108A CABINET DETAIL SUNSET AVENUE AND LEWIS AVENUE AND McAREE ROAD SUGGESTED TRAFFIC CONTROL PLAN - SUNSET AVENUE / GOLF ROAD / TRAFFIC SIGNAL MODERNIZATION PLAN SUNSET AVENUE AND McAREE GREENWOOD AVENUE FROM McAREE ROAD TO IL 137 (SHERIDAN RD) ROAD 62-65 DISTRICT ONE DETAILS (BE-301, TC-10, TC-14, AND TC-22) EXISTING UTILITIES - SUNSET AVENUE AND McAREE ROAD 66-69 LAKE COUNTY DIVISION OF TRANSPORTATION DETAILS 23-24 SIDEWALK CURB / RAMP DETAILS SUNSET AVENUE AND McAREE ROAD HIGHWAY STANDARDS CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE 000001-07 STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS PREEMPTION SEQUENCE SUNSET AVENUE AND McAREE ROAD DECIMAL OF AN INCH AND OF A FOOT 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES 424006-04 DIAGONAL CURB RAMPS FOR SIDEWALKS SUNSET AVENUE AND McAREE ROAD 424011-04 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS 424021-05 DEPRESSED CORNER FOR SIDEWALKS TRAFFIC SIGNAL MODIFICATION PLAN SUNSET AVENUE AND LEWIS AVENUE 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE 701011-04 OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY PREEMPTION SEQUENCE SUNSET AVENUE AND LEWIS AVENUE 701101-05 OFF-RD OPERATIONS, MULTILANE 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE SCHEDULE OF QUANTITIES - SUNSET AVENUE AND LEWIS AVENUE 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY 701301-04 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLYLANE CLOSURE TRAFFIC SIGNAL EQUIPMENT PLAN SUNSET AVENUE AND YEOMAN STREET 701427-05 MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE SUNSET AVENUE 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED 701502-09 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE AND YEOMAN STREET 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN TRAFFIC SIGNAL MODERNIZATION PLAN SUNSET AVENUE AND YEOMAN 701606-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN STREET 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE 33 EXISTING UTILITIES - SUNSET AND YEOWMAN STREET 701901-08 TRAFFIC CONTROL DEVICES 34-35 SIDEWALK CURB / RAMP DETAILS SUNSET AVENUE AND YEOMAN STREET 780001-05 TYPICAL PAVEMENT MARKINGS 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS 36 CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE 814001-03 HANDHOLES 814006-02 DOUBLE HANDHOLES PREEMPTION SEQUENCE SUNSET AVENUE AND YEOMAN STREET 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS) MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING SUNSET AVENUE AND YEOMAN STREET 877006-06 STEEL MAST ARM ASSEMBLY & POLE WITH DUAL MAST ARMS TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING 877011-10 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' 878001-10 CONCRETE FOUNDATION DETAILS TRAFFIC SIGNAL EQUIPMENT PLAN GOLF ROAD AND JACKSON STREET 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND 886001-01 DETECTOR LOOP INSTALLATIONS TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE GOLF ROAD AND JACKSON STREET LCDOT STANDARDS TRAFFIC SIGNAL MODERNIZATION PLAN GOLF ROAD AND JACKSON STREET LC2051 PERIMETER EROSION BARRIER INSTALLATION LC4201 CURB RAMPS WITH TRAFFIC SIGNAL POSTS AND MAST ARMS 41 EXISTING UTILITIES - GOLF ROAD AND JACKSON STREET CONCRETE WASHOUT FACILITIES LC4202 LC7200 DIRECTIONAL INDICATOR BARRICADES 42-44 SIDEWALK CURB / RAMP DETAILS GOLF ROAD AND JACKSON STREET LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS LC8900 CAMERA MOUNTING DETAILS 45 CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE GOLF ROAD AND JACKSON STREET **HOT-MIX ASPHALT MIXTURE TABLE**

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GEWALT

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE

PREEMPTION SEQUENCE GREENWOOD AVENUE AND IL 137 (SHERIDAN RD)

SCHEDULE OF QUANTITIES - GREENWOOD AVENUE AND IL 137 (SHERIDAN

TEMPORARY INTERCONNECT PLAN - SUNSET AVENUE / GOLF ROAD /

47-48 TRAFFIC SIGNAL MODIFICATION PLAN GREENWOOD AVENUE AND IL 137

GOLF ROAD AND JACKSON STREET

(SHERIDAN RD)

MIV TVDE	PERCENT AIR
MIX TYPE	VOIDS @Ndes
INCIDENTAL HMA PAVING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% @ 50 Gyr
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SUR	FACE MIXTURES

IS 112 Lbs/SqYd/in THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND

FOR NON-POLYERMIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

POINTS OF CONTACT								
LAKE COUNTY PASSAGE MR. JON NELSON, P.E. ENGINEER OF TRAFFIC PH: (847) 377-7000 FAX: (847) 984-5606								
UTILITY POINTS OF CONTACT (LEGAL MANDATE CONTACT FOR QUESTIONS ON UTILITY PLANS & PERMITS)								
AT&T CORPORATION MR. HECTOR GARCIA LEGAL MANDATE DEPARTMENT 1000 COMMERCE DRIVE, FLOOR 1 OAK BROOK, IL. 60523 PH: (847) 888-6799 FAX: (630) 573-5445 CELL: (630) 639-8372 hg2929@att.com COMED MS. TERRI J. BLECK, MANAGER, PUBLIC RELOCATION GROUP (NORTHEAST REGION) 1500 FRANKLIN BLVD. LIBERTYVILLE, IL 60048 PH: (847) 816-5239 FAX: (847) 816-5348 terri.bleck@comed.com	NICOR GAS MR. BRUCE KOPPANG DOT LIAISON 1844 FERRY RD. NAPERVILLE, IL 60563 PH: (630) 388-3046 FAX: (630) 983-4028 CELL: (708) 243-5136 bkoppan@aglresources.com NORTH SHORE GAS MS. GLANNIE CHAN 3001 GRAND AVE. WAUKEGAN, IL 60085 OFFICE: (847) 263-4687 CELL: (224) 360-2035 gachan@peoplesgasdelivery.com	NORTHWEST WATER COMMISSION MR. DAVID NEYBERT 1525 NORTH WOLF ROAD DES PLAINES, IL 60016 PH: (847) 635-0777 COMCAST MR. ROBERT SCHULTER, MANAGER 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 PH: (630) 600-6347 FAX: (630) 600-6390 BOB_SCHULTER@CABLE.COMCAST.COM CONTACT FIRST ADM. ASSISTANT: MARTHA GIERAS PH: (630) 600-6352 martha_gieras@cable.comcast.com	REDSPEED ILLINOIS MR. JOSE CHAVEZ 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 OFFICE: (630) 317-5705 jose.chavez@redspeed-illinois.com CITY OF WAUKEGAN MR. MIKE HEWITT 1700 N. McAREE ROAD WAUKEGAN, IL 60085 OFFICE: (847) 360-0944 mike.hewitt@waukeganil.gov					
UTILITY POINTS OF CONT	ACT (DAMAGE PREVENTION CONTACT FO	OR PROBLEMS WITH JULIE LOCATES AND/C	OR UTILITY EMERGENCIES)					
NICOR GAS MR. JEREMY REMPERT UTILITY DAMAGE CONTROL COORD. PH: (224) 242-6543 jremper@southernco.com	COMCAST MR. SHARI GREENWOOD UTILITY DAMAGE CONTROL COORD. PH: (708) 417-8522 shari_greenwood@cable.comcast.com	AT&T CORPORATION MR. KEVIN CAVENAILE AT&T DAMAGE PREVENTION PH: (630) 906-2166 PH: (815) 274-3093	COMED (DAMAGE PREVENTION) MS. KELLEY HEINZ SR. CLAIMS CASE MANAGER PH: (630) 333-2231 PH: (630) 691-4759					
NORTH SHORE GAS MR. TED ANDERSEN UTILITY DAMAGE CONTROL COORD. PH: (847) 263-4614 taandersen@northshoregasdelivery.com		kc2951@att.com	kelley.heinz@comed.com					

	CONTROL POINTS								
POINT #	NORTHING	NORTHING EASTING ELEVATION		DESCRIPTION	STATION	OFFSET	NAME		
42	2085832.31	1113760.08	658.98	CP42-XSW	80+60.4	37.0' LT	CP-42		
56	2085755.03	1113308.02	659.95	CP56-XSW	76+08.2	39.1' RT	CP-56		
57	2085761.51	1114118.57	657.28	CP57-XSW	84+18.7	34.7' RT	CP-57		
58	2084603.21	1116451.47	662.84	CP58-SXSW	111+71.7	33.7' RT	CP-58		
60	2083201.92	1118625.81	658.99	CP60-XSW	138+55.2	22.5' LT	CP-60		
61	2083139.93	1119515.81	660.25	CP61-XSW	147+45.1	41.3' RT	CP-61		
75	2083134.47	1119440.91	659.01	CP75-FXSW	146+70.2	46.6' RT	CP-75		
76	2083145.77	1118249.94	663.75	CP76-SXSW	134+79.3	32.9' RT	CP-76		
77	2083443.23	1117922.15	664.98	CP77-SXSW	130+43.7	30.6' LT	CP-77		
78	2083765.22	1117434.18	666.92	CP78-SXSW	124+63	37.7' RT	CP-78		
79	2084712.72	1116428.89	662.63	CP79-SXSW	110+83.6	35.3' LT	CP-79		
80	2084489.87	1116691.04	661.75	CP80-SXSW	114+27.7	34.8' LT	CP-80		
81	2084907.26	1116100.54	664.16	CP81-SXSW	107+07.4	28.7' RT	CP-81		
82	2085484.74	1115404.65	663.99	CP82-SXSW	98+03.1	38.3' RT	CP-82		
200	2085756.91	1112531.10	664.41	CP200-XSW	68+31.3	35.3' RT	CP-200		
201	2085824.16	1110699.50	700.15	CP201-XSW	49+99.7	37.3' LT	CP-201		
202	2085755.45	1111906.24	670.13	CP202-XSW	62+06.4	34.8' RT	CP-202		
203	2085752.76	1111040.04	686.65	CP203-XSW	53+40.1	34.2' RT	CP-203		
204	2085462.60	1110775.12	706.33	CP204-XSW	50+74.1	323.4' RT	CP-204		
59723	2086179.68	1113437.00	660.29	CP34-FMN	77+38.2	385.2' LT	CP-34		
59724	2085201.36	1113420.52	657.41	CP8-FXSW	77+19.3	593.1' RT	CP-8		

BEARINGS AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (CORS 96) (2002 ADJUSTMENT) "GRID".

DATUM IS NAVD 88

ANY ROADWAY OR DRIVEWAY PAVEMENT DAMAGED IN THE REMOVAL OF COMBINATION CURB AND GUTTER OR SIDEWALK SHALL BE REPAIRED AND INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER, TYPE B-6.12 OR PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT kalpana.kannah-hosadurga@illinois.gov A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

ANY EXPLORATORY POTHOLING FOR EXISTING BELOW GRADE LITHITIES IN HARD SURFACES OR

GREENWOOD AVENU	E FROM McAREE ROAD TO IL 137 (S	HERIDAN RD)		OF RECYCLED MATERIALS SEE SPEC	CIAL PROVISIONS. GRASSED AREAS SHALL BE INC. FILLED WITH SAND OR BENTON	CLUDED IN THE CO	OST OF THE (CONTRACT.	ALL POTH						
FILE NAME =	USER NAME = zwallsten	DESIGNED -	JRD	REVISED -			INDEX (OF SHEET:	s. HIGHW	AY STAND	ARDS.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
GenNote-Index.dgn		DRAWN -	ZCW	REVISED -	STATE OF ILLINOIS	OIS I				•	VAR.	12-00999-30-TL	LAKE	69 2	
4572.800	PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -	DEPARTMENT OF TRANSPORTATION		POINTS OF CONTACT, AND CONTROL POINTS				PUIN 13			CONTRAC	T NO. 61G47
Default	PLOT DATE = 4/3/2020	DATE -	1/10/2020	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

LCDOT GENERAL NOTES

GENERAL

- A. ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JAN. 1, 2020; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- B. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- C. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH ANY ADJACENT PROJECTS THAT ARE OR MAY BE UNDER CONSTRUCTION.
- D. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
- E. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR BRIEF PERIODS OF INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE INTERRUPTION OF ACCESS AND/OR SERVICES. THE NOTIFICATION WILL INCLUDE THE TIME AND DURATION OF THE INTERRUPTION.

SURVE

- A. ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE ELEVATIONS SHOWN ON THE PLANS ARE FOR FINISHED GRADES UNLESS OTHERWISE NOTED.
- B. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- C. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- REMOVAL
- A. ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFFSITE ON THE DAY IT IS EXCAVATED OR REMOVED.
- B. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND LEGALLY DISPOSED OF OUTSIDE THE RIGHT-OF-WAY.
- C. ALL EXISTING DRAINAGE FACILITIES, HEADWALLS AND FENCES NO LONGER REQUIRED. IN THE OPINION OF THE ENGINEER. SHALL BE REMOVED.
- D. REMOVED ITEMS DESIGNATED FOR SALVAGE ITEMS DESIGNATED FOR SALVAGE SHALL BE CAREFULLY REMOVED AND STORED AT THE LOCATION AND IN THE MANNER DESIGNATED BY ENGINEER.

NONE OF THE REMOVAL ITEMS/COMPONENTS HAVE BEEN DESIGNATED FOR SALVAGE BY LCDOT. THE CONTRACTOR SHALL TRANSPORT THE REMOVED ITEMS FROM THE PROJECT SITE AND DISPOSE OF THEM OUTSIDE THE ROW ACCORDING TO ARTICLE 202.03 OF THE "STANDARD SPECIFICATIONS".

4. DRAINAGE

HAMILLON

GEWALT

- A. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING DRAINAGE FACILITIES SHALL REMAIN IN USE DURING THE PERIOD OF CONSTRUCTION. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER.
- B. THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM SEWER PIPE SIZES AND INVERTS PRIOR TO ORDERING STRUCTURES. ANY MODIFICATION OF STRUCTURES DUE TO THE FAILURE OF THE CONTRACTOR TO PERFORM THIS TASK SHALL BE AT THE CONTRACTOR'S EXPENSE AND MAY LEAD TO THE REJECTION OF THE STRUCTURE IN THE FIELD IF THE MODIFICATION IS NOT APPROVED BY THE ENGINEER.

- C. IF DURING CONSTRUCTION, THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS WITHIN THE RIGHT-OF-WAY OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE. SHOULD THE ENGINEER DIRECT THE REPLACEMENT OF A FACILITY, THE NECESSARY WORK AND PAYMENT SHALL BE ACCORDING TO SECTIONS 550 AND 601, AND ARTICLE 104.02 OF THE "STANDARD SPECIFICATIONS".
- D. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, CULVERTS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. THE CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWER ARE BUILT AND IN SERVICE.
- E. THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON MANHOLES AND CATCH BASINS. RESTRICTED DEPTH MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED ACCORDING TO LCDOT STANDARD LC6000. SUMPS, WHERE REQUIRED, WILL BE INCLUDED IN THE UNIT PRICE OF THE RESTRICTED DEPTH STRUCTURE.
- F. TOP OF FRAME (RIM) ELEVATIONS SHOWN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- G. UNLESS OTHERWISE NOTED, LOCATIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT FOR STRUCTURES IN THE CURB AND TO THE CENTER OF THE STRUCTURE FOR ALL OTHER STRUCTURES. ALL TOP OF FRAME (RIM) ELEVATIONS FOR STRUCTURES LOCATED IN THE CURB AND GUTTER ARE AT THE EDGE OF PAVEMENT. SEE THE LCDOT DETAIL FOR DRAINAGE STRUCTURE RIM ELEVATIONS AND OFFSETS LC6003. DRAINAGE STRUCTURE FLAT-TOPS AND CONES SHALL BE TURNED SO THAT THE FRAMES ARE CLOSEST TO THE CENTERLINE OF THE LANE UNLESS OTHERWISE NOTED. ALL FLAT-TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC UNLESS OTHERWISE NOTED.
- H. STATIONS, OFFSETS, AND INVERT ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE CENTERLINE OF THE OUTLET END OF THE FLARED END SECTION. THE FLARED END SECTION SHALL BE INSTALLED AT THE SAME SLOPE AS THE OUTLET PIPE.
- I. HOT-MIX ASPHALT OR CONCRETE PAVEMENT CROSSINGS SHALL NOT BE LEFT IN GRAVEL OVERNIGHT. THIS WILL INCLUDE THE MAIN ROAD, SIDE STREETS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES AND PARKING AREAS. TEMPORARY HOT-MIX ASPHALT PATCHING OR STEEL PLATES (SEE STEEL PLATE SPECIAL PROVISION) MAY BE USED IN LIEU OF IMMEDIATE PAVEMENT REPLACEMENT.
- J. COUPLINGS USED FOR CONNECTIONS OF NEW PIPE TO EXISTING PIPE AND WHERE DISSIMILAR PIPE AND JOINT MATERIALS ARE ENCOUNTERED SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. NO STAINLESS STEEL SHEAR RINGS WILL BE ALLOWED.
- 5. DRIVEWAYS AND ENTRANCES
- A. EXISTING HOT-MIX ASPHALT, CONCRETE, AND GRAVEL DRIVEWAYS AND ENTRANCES SHALL BE RE-SURFACED TO ONE FOOT INSIDE THE RIGHT-OF-WAY WITH HOT-MIX ASPHALT SURFACE COURSE AS SCHEDULED ON THE PLANS.
- B. EXISTING CONCRETE DRIVEWAYS AND ENTRANCES SHALL BE RECONSTRUCTED TO ONE FOOT INSIDE THE RIGHT-OF-WAY WITH CONCRETE AS SCHEDULED ON THE PLANS.
- C. EXISTING HOT-MIX ASPHALT DRIVEWAYS AND ENTRANCES SHALL BE SAWCUT AT THE LIMITS OF CONSTRUCTION LINE. THE SURFACE SHALL BE REMOVED TO THE SAWCUT. THE AGGREGATE BASE SHALL BE APPROPRIATELY PREPARED, AND THE DRIVEWAY SHALL BE RESURFACED WITH HOT-MIX ASPHALT SURFACE COURSE.
- D. EXISTING AGGREGATE FIELD ENTRANCES SHALL BE BUILT UP IN PLACE TO ONE FOOT INSIDE THE RIGHT-OF-WAY WITH AGGREGATE BASE COURSE.
- 6. LANDSCAPING: PHOSPHORUS FERTILIZER NUTRIENT SHALL NOT BE USED ON LAKE COUNTY HIGHWAYS.
- 7. MILLED PAVEMENT: WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM ELEVATION DIFFERENCE BETWEEN LANES, AT CONCRETE CURB AND GUTTER, OR EXISTING GROUND (SHOULDERS, ENTRANCES ETC...) SHALL NOT EXCEED 1.5 INCHES. WITH WRITTEN APPROVAL FROM THE ENGINEER THE MAXIMUM ELEVATION DIFFERENCE MAY BE UP TO 3 INCHES IF THE EDGE OF THE MILLING IS SLOPED A MINIMIM 3-1 (H-V)

8. SIGNS

A. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HISHER CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS ACCORDING TO ARTICLE 107.25 OF THE "STANDARD SPECIFICATIONS".

•ALL UNUSED SIGNS SHALL BE RETURNED TO THE COUNTY.

•LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.

B. PERMANENT SIGNING WILL BE FURNISHED AND INSTALLED BY LCDOT. PROPOSED PERMANENT SIGNS SHOWN ON THE PLANS ARE FOR REFERENCE ONLY.

9 UTILITIE

- A. LOCATION INFORMATION FOR UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS AND/OR INCLUDED IN THE CONTRACT SPECIFICATIONS REPRESENTS THE BEST INFORMATION PROVIDED TO LCDOT, AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. LCDOT ASSUMES NO RESPONSIBILITY FOR THE SUFFICIENCY OR THE ACCURACY OF THE LOCATION INFORMATION PROVIDED.
- B. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT "JULIE"AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, CABLE, ETC..., UTILITY LINES (MINIMUM 48-HOUR NOTIFICATION IS REQUIRED).
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL RESTORE SUCH PROPERTY AT HIS/HER OWN EXPENSE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.

10. MISCELLANEOUS

- A. GENERALLY, 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN ON THE PLANS.
- B. THE CONTRACTOR SHALL NOT CROSS COMPLETED SURFACE COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT.
- C. ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CONTINUOUSLY REINFORCED CONCRETE PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.
- D. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.

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

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

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

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

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

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

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

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

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

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

SLOPED A MINIMUM 3:1 (H:V). FILE NAME = USER NAME = zwallster DESIGNED -JRD REVI ŒD SECTI ON COUNTY **GENERAL NOTES** DRAWN STATE OF ILLINOIS enNote-Index.dg 7CW REVI ŒD LAKE 69 572.800 CHECKED DPB REVI SED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 1:20 CONTRACT NO. 61G47 TILINOIS FEDAID POLECT SCLAE NONE SHEET OF SHEETS STA TO ST A POT DATE = 2/72020 DΔTF 1/102020 R EVISED

FUNDING 80% FEDERAL 80% FEDERA LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT AT IL 137 OF ΑT ΑT ΑT McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

0021

TRAFFIC SIGNALS WORK ITEM UNITTOTAL SP CODE NO. **EACH** 10 10 20101300 TREE PRUNING (1 TO 10 INCH DIAMETER) CU YD 2 2 2 EARTH EXCAVATION 20200100 EXPLORATION TRENCH 72" DEPTH FΤ 30 30 30 10 21301072 92 46 46 46 40800029 BITUMINOUS MATERIALS (TACK COAT) POUND 230 2 4 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING TON 10 2 2 SQ YD 496 184 144 168 42001300 PROTECTIVE COAT 1,444 1,134 1,343 SQ FT 3,921 42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH 165 FOOT 536 268 COMBINATION CURB AND GUTTER REMOVAL 44000500 SQ FT 3,386 1,281 1,148 44000600 SIDEWALK REMOVAL 2 60300105 FRAMES AND GRATES TO BE ADJUSTED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT) FOOT 216 162 165 60603900 FOOT 35 35 66400105 CHAIN LINK FENCE, 4' 5.00 5.00 CU YD 10 66900200 NON-SPECIAL WASTE DISPOSAL SOIL DISPOSAL ANALYSIS EACH 66900530 SPECIALTY ITEM CONSTRUCTION CODE 0042

WALI HAMILIUN SOCIATES, INC. TS SHT NO.

FILE NAME ≃
SOQ.dgn
4572.800
SOQ-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

 F.A.U. RTE.
 SECTION
 COUNTY SHEETS
 SHEETS NO.

 VAR.
 12-00999-30-TL
 LAKE
 69
 4

 CONTRACT NO. 61G47

 | ILLINOIS | FED, AID PROJECT

BREAKDOWN\$ 20% LCDOT | 20% LCDOT LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT AT AT AT IL 137 VARIOUS McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

1 TRAFFIC SIGNALS WORK SP CODE NO. UNITTOTAL ITEM 66901001 REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN 1 66901003 REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT SUM 1 66901006 REGULATED SUBSTANCES MONITORING ¢AL DAÝ 5 5 67000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 14 14 SUM 1 MOBILIZATION 1 67100100 EACH 3 1 1 SERVICE INSTALLATION - POLE MOUNTED 80500020 73 248 6,895 81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT 7,494 278 FOOT 212 52 39 121 81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA. FOOT 104 47 57 81028230 81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT | 1,144 337 346 461 18 3 2 3 10 81400100 HANDHOLE EACH 2 EACH 7 2 3 81400300 DOUBLE HANDHOLE 730 863 FOOT 2,377 784 81702450 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 EACH 11 4 3 82103250 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT 4 SPECIALTY ITEM CONSTRUCTION CODE 0042

C N GEWALT HAMILTON TS SHT NO.

FILE NAME = 500.dgn 4572.800 500-02
 USER NAME
 = wallsten
 DESIGNED
 JRD
 REVISED

 PLOT SCALE
 = 1:1
 CHECKED
 DPB
 REVISED

 PLOT DATE
 = 27/2020
 DATE
 1/10/2020
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TO STA.

FUNDING 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL

		FUNDING 80% FEDERAL 80% FEDE BREAKDOWNS 20% LCDOT 20% LCD			20% LCDOT	20% LCDOT	20% LCDOT	20% LCDOT	20% LCDOT
			CTION OF ORK	AT	AT LEWIS AVENUE	AT YEOMAN STREET	AT JACKSON STREET	GREENWOOD AVE AT IL 137 (SHERIDAN RD)	VARIOUS
SP CODE NO.	ITEM	UNIT	ΤΟΤΑΙ			CONSTRUCT 0(TRAFFIC	ION CODES)21 SIGNALS	-	
83060355	LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM	EACH	2				2		

83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	22				22		
Y 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3		1			1	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	15,825	5					15,825
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	4,719	1,039		1,787	1,893		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,995	1,579		1,600	1,816		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,483	1,001		1,607	1,875		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,777	1,279		635	863		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	634	264		93	277		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,989	708		486	795		
87704340	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 30 FT. (SPECIAL)	EACH	2				2		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40	16		12	12		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12	4		4	4		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	150	60		60	30		
*	SPECIALTY ITEM								

C WALL HAMILTON TS SHT NO. 6

FILE NAME = SOQ.dgn 4572.800 SOQ-03
 CONSTRUCTION CODE 0042

 USER NAME = ZWAIISTEN
 DESIGNED - JRD REVISED - REVISED - REVISED - PLOT SCALE = 1:1
 CHECKED - DPB REVISED - PLOT DATE = 27/1/2020
 REVISED - R

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 3 OF 8)

SCALE: NONE SHEET 3 OF 7 SHEETS STA.

TO STA.

LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT OF AT AΤ AT IL 137 VARIOUS McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

TRAFFIC SIGNALS WORK ATOT TINU SP CODE NO. TEM DRILL EXISTING HANDHOLE EACH 2 87900200 88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED 15 88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 2 4 88030070 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 1 EACH 3 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED 88030080 EACH 2 6 4 88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 6 2 88030110 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 2 88055150 2 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 4 88055160 88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 22 6 8 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 26 10 8 4 88700200 LIGHT DETECTOR EACH 2 2 1 EACH 88700300 LIGHT DETECTOR AMPLIFIER 3 1 1 6 88800100 PEDESTRIAN PUSH-BUTTON EACH 22 8 8 CONSTRUCTION CODE 0042

TS SHT NO.7

G VA GEWALT HAMILTON ASSOCIATES, INC.

4572.800

USER NAME = zwallsten DESIGNED - JRD DRAWN - ZCW REVISED -PLOT SCALE = 1:1 CHECKED - DPB REVISED -PLOT DATE # 2/7/2020 DATE - 1/10/2020 REVISED

REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 4 OF 8) SCALE: NONE SHEET 4 OF 7 SHEETS STA.

TO STA.

FUNDING 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL BREAKDOWN\$ 20% LCDOT | 20% LCDOT

> 12-00999-30-TL CONTRACT NO. 61G47

AT AT IL 137 VAR I OUS ΑT McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

TRAFFIC SIGNALS WORK UNITTOTAL ITEM SP CODE NO. TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 1 1 89000100 89502210 MODIFY EXISTING CONTROLLER CABINET 15,760 89502300 REMOVE ELECTRIC CABLE FROM CONDUIT FOOT 15,760 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 3 1 1 1 EACH 29 9 11 9 89502380 REMOVE EXISTING HANDHOLE EACH 27 9 9 9 REMOVE EXISTING CONCRETE FOUNDATION 89502385 CONSTRUCTION LAYOUT (SPECIAL) LSUM 1 X0320050 FOOT 1,166 177 406 583 X0324085 EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C FOOT 7,650 7,650 X0324599 ROD AND CLEAN EXISTING CONDUIT X0325462 MEDIA CONVERTER EACH 3 4 LED INTERNALLY ILLUMINATED STREET NAME SIGN EACH 12 4 4 X0327698 419 340 PAVEMENT MARKING REMOVAL - WATER BLASTING SQ FT 2,049 1,290 X0327980 15,825 X1400007 FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE FOOT 15,825 117 211 X1400102 OUTDOOR RATED NETWORK CABLE FOOT 518 190 SPECIALTY ITEM CONSTRUCTION CODE 0042

OCIATES, INC. TS SHT NO. 8

G ASSOCIATES, INC.

FILE NAME = SOQ.dgn 4572.800 SOO-05

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 SUMMARY OF QUANTITIES

 (SHEET 5 OF 8)

 SCALE: NONE
 SHEET 5 OF 7 SHEETS STA.

TO STA.

FUNDING 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL

LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT -

BREAKDOWN\$ 20% LCDOT | 20% LCDOT | 20% LCDOT | 20% LCDOT | 20% LCDOT |

BREAKDOWN\$ 20% LCDOT | 20% LCDOT LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT AT AT AT IL 137 VARIOUS McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

TRAFFIC SIGNALS WORK UNITTOTAL SP CODE NO. ITEM X1400215 REMOTE CONTROLLED VIDEO SYSTEM 3 X1400216 LAYER II (DATALINK) SWITCH EACH 6 X1400217 TERMINATE FIBER IN CABINET EACH EACH X1400319 TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL) 1 EACH 4 3 1 X1400320 TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL) 8 EACH 1 TRAFFIC SIGNAL POST, 18 FOOT, (SPECIAL) X1400321 X4240800 84 DETECTABLE WARNINGS (SPECIAL) SQ FT 364 162 118 0.20 0.20 0.20 0.40 X7010216 TRAFFIC CONTROL AND PROTECTION (SPECIAL) SUM 1.00 GROOVING FOR RECESSED PAVEMENT MARKING 13" FOOT 1,209 472 427 310 X7830078 X7830090 GROOVING FOR RECESSED PAVEMENT MARKING 25" FOOT 308 129 106 73 2 X8100105 CONDUIT SPLICE EACH 1 X8570226 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL EACH 3 1 1 1 EACH 1 X8620200 UNINTERRUPTABLE POWER SUPPLY, SPECIAL 3 1 211 X8730571 ELECTRIC CABLE IN CONDUIT, COAXIAL FOOT 211 SPECIALTY ITEM CONSTRUCTION CODE 0042

G V GEWALT HAMILTON TS SHT NO.

FILE NAME 500.dgn 4572.809 500-06

 USER NAME
 = zwallsten
 DESIGNED
 JRD
 REVISED

 DRAWN
 ZCW
 REVISED

 PLOT SCALE
 = 1:1
 CHECKED
 DPB
 REVISED

 PLOT DATE
 = 2/7/2020
 DATE
 1/10/2020
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 6 OF 8)

SCALE: NONE SHEET 6 OF 7 SHEETS STA.

TO STA.

FUNDING 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL

F.A.U. SECTION COUNTY TOTAL SHEETS NO.

VAR. 12-00999-30-TL LAKE 69 9

CONTRACT NO. 61G47

BREAKDOWN\$ 20% LCDOT | 20% LCDOT LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT OF AT AT AT IL 137 VARIOUS McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

TRAFFIC SIGNALS WORK SP CODE NO. UNITITOTAL ITEM X8730800 ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C FOOT | 211 211 X8770123 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL) EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL) EACH X8770135 2 EACH X8770137 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL) X8770139 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL) EACH X8770154 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT. (SPECIAL) EACH 1 EACH X8772860 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL) 1 X8772930 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT. (SPECIAL) EACH 1 Z0022800 FENCE REMOVAL FOOT 35 35 Z0030850 TEMPORARY INFORMATION SIGNING SQ FT 52 52 Z0033056 OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH 1 EACH 1 Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING 3 HOUR 500 Z0076600 TRAINEES HOUR 500 Z0076604 TRAINEES TRAINING PROGRAM GRADUATE SPECIALTY ITEM CONSTRUCTION CODE 0042

EWALT HAMILON SSOCIATES, INC. TS SHT NO.10

G ASSOCIATES, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 7 OF 8)

SCALE: NONE SHEET 7 OF 7 SHEETS STA.

TO STA.

FUNDING 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL

TS SHT NO. 11

SP CODE NO.

XX005723

XX006343

* *

G MANITON SSOCIATES, INC.

FILE NAME =	USER NAME = zwallsten	DESIGNED -	JRD	REVISED -	ĺ
50Q.dgn		DRAWN -	ZC₩	REVISED -	ĺ
1572.800	PLOT SCALE = 1:1	CHECKED -	DPB	REVISED -	ĺ
50Q-08	PLOT DATE = 2/7/2020	DATE -	1/10/2020	REVISED -	ĺ

VIDEO DETECTION SYSTEM COMPLETE INTERSECTION

SEEDING (COMPLETE)

SPECIALTY ITEM CONSTRUCTION CODE 0042

> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

		su	MMA	RY	OF QU	ANTITIE	S	F.A.U. RTE.	SECTION
			(S	HEI	ET 8 OF	8)		VAR.	12-00999-30-
SCALE: NONE	SHEET	7	OF	7	SHEETS	STA.	TO STA.		ELLINOIS

FUNDING 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL 80% FEDERAL BREAKDOWN\$ 20% LCDOT | 20% LCDOT LOCATION SUNSET AVENUE SUNSET AVENUE SUNSET AVENUE GOLF ROAD GREENWOOD AVE INTERCONNECT

AT

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21

AT

1

28

McAREE ROAD LEWIS AVENUE YEOMAN STREET JACKSON STREET (SHERIDAN RD) LOCATIONS

CONSTRUCTION CODES

TRAFFIC SIGNALS

AT IL 137 VARIOUS

COUNTY TOTAL SHEET NO.

LAKE 69 11

CONTRACT NO. 61G47

OF

WORK

UNIT TOTAL

3

75

EACH

SQ YD

AT

26

ΑT

ITEM

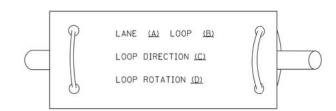
TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

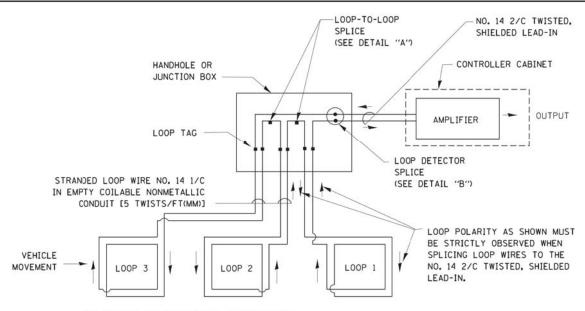
					(NOT TO SCALE)				
LTEM	EXISTING	PROPOSED	<u>ITEM</u>		EXISTING	PROPOSED	LTEM	EXISTING	PROPOSED
CONTROLLER CABINET	\boxtimes	\blacksquare	HANDHOLE -SOUARE				SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R	RR
COMMUNICATION CABINET	ECC	СС	-ROUND				W 7 THOUTAMMADEL STOTAL TIERS		Y Y G G
MASTER CONTROLLER	EMC	MC	HEAVY DUTY HAND -SQUARE -ROUND	HOLE	H ®	⊞ ⊕			R
MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE				STOLEN WELD WITH BLOWD AT		
UNINTERRUPTABLE POWER SUPPLY	 ⅓	7	JUNCTION BOX			0	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		R R Y
SERVICE INSTALLATION	-D-P	- ■ -P	RAILROAD CANTILE	EVER MAST ARM	X OX X	I eI I			G G G 4Y
-(P) POLE MOUNTED SERVICE INSTALLATION			RAILROAD FLASHIN	IG SIGNAL	∑⊙ X	X•X		P RB	4 G 4 G 4 G P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}	RAILROAD CROSSIN	NG GATE	202	X+X-	PEDESTRIAN SIGNAL HEAD	(P)	
TELEPHONE CONNECTION	ET	T	RAILROAD CROSSB	UCK	**	*	AT RAILROAD INTERSECTIONS	1	Ā
STEEL MAST ARM ASSEMBLY AND POLE	0	•—	RAILROAD CONTRO	LLER CABINET		≥ ∢	PEDESTRIAN SIGNAL HEAD	© C	₽ C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE	0		UNDERGROUND CON GALVANIZED STEEL				WITH COUNTDOWN TIMER		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o¤—	•*	TEMPORARY SPAN TETHER WIRE, AND	WIRE,			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	● ● BM	SYSTEM ITEM INTERSECTION ITE	M.	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE	\otimes	Θ	REMOVE ITEM	.wi	1	R	GROUND CABLE IN CONDUIT,	116	(1 * 6)
GUY WIRE	>-	>-	RELOCATE ITEM			RL	NO. 6 SOLID COPPER (GREEN)		
SIGNAL HEAD	->	-	ABANDON ITEM			А	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	<u></u>	_1_
SIGNAL HEAD WITH BACKPLATE	+	+-	CONTROLLER CABI			RCF	COAXIAL CABLE	<u> </u>	—c—
SIGNAL HEAD OPTICALLY PROGRAMMED	-P +DP	→ P + → P	MAST ARM POLE A				VENDOR CABLE		
FLASHER INSTALLATION -(FS) SOLAR POWERED	OF OF	•►F •►FS	FOUNDATION TO B			RMF	COPPER INTERCONNECT CABLE.		
	BDF BDFS	₽ F ₽FS	SIGNAL POST AND FOUNDATION TO B			RPF	NO. 18, 3 PAIR TWISTED, SHIELDED	6*18	<u>—(6*18)</u>
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP,	TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F		——————————————————————————————————————
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETEC	TOR LOOP	[P] (P)	P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM	M) DETECTOR	$[\underline{\tilde{s}}]$ (\hat{s})	s s			—(36F)—
VIDEO DETECTION CAMERA	V	V ●	INTERSECTION AND		[IS] (IS)	IS (IS)			
RADAR/VIDEO DETECTION ZONE	 		QUEUE AND SAMPL		[05] (05)	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	±C ±M ±P ±S	^C ^M ^P ^S
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	₽TZ¶	WIRELESS DETECT		(i)	©	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	-	WIRELESS ACCESS	POINT		-			
CONFIMATION BEACON	○ ─ (-4			_	_			
WIRELESS INTERCONNECT	O-1111	•-+							
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR							
FILE NAME = USER NAME = zwallsten	DESIGNED -			OT A	TE OF HIMOIS		DISTRICT ONE	F.A.U. SECTIO	SIILLIS NO.
IDOT-StdDetails.dgn	DRAWN - CHECKED -	IP REVISED - LP REVISED -			TTE OF ILLINOIS IT OF TRANSPORTATION	STAN	IDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR. 12-00999- TS-05	30-TL LAKE 69 12 CONTRACT NO. 61G47
IDOT D1 STANDARD TS05a PLOT DATE = 2/7/2020	DATE -	9/29/2016 REVISED -				SCALE: NONE SHE	ET 1 OF 7 SHEETS STA. TO STA.		INOIS FED. AID PROJECT

- 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

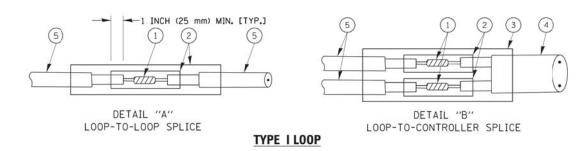


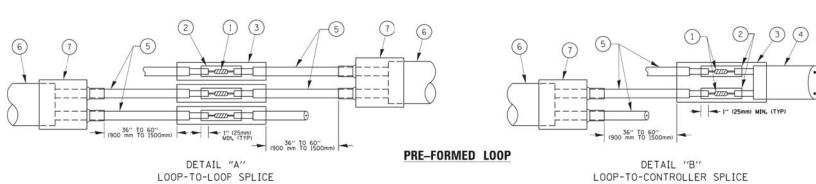
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





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.

SCALE: NONE

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

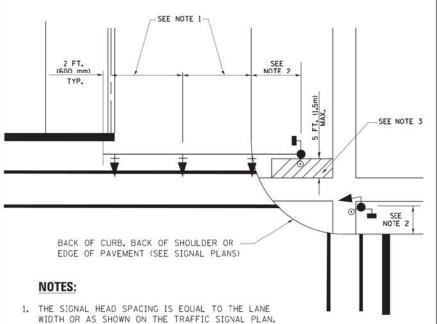
(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

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- 1	IDOT-StdDetails.dgn		DRAWN -	BCK	REVISED -
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il	IDOT D1 STANDARD TS05b	PLOT DATE = 2/7/2020	DATE -	10-28-09	REVISED -

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DEPARTMENT OF	TRANSPORTATION

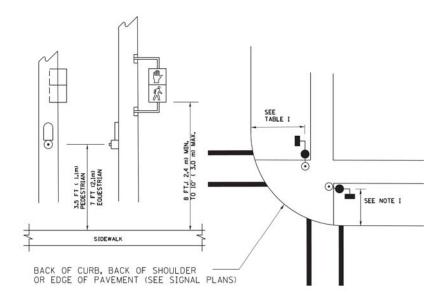
	DIST	TRICT ON	E		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TANDARD TRAFFIC	CICNAL	DESIGN DET	All C	VAR.	12-00999-30-TL	LAKE	69	13
	TANDARD TRAFFIC	SIGNAL	DESIGN DE	AILO		TS-05 CONTRACT NO			1G47
SI	HEET NO. 2 OF 7	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



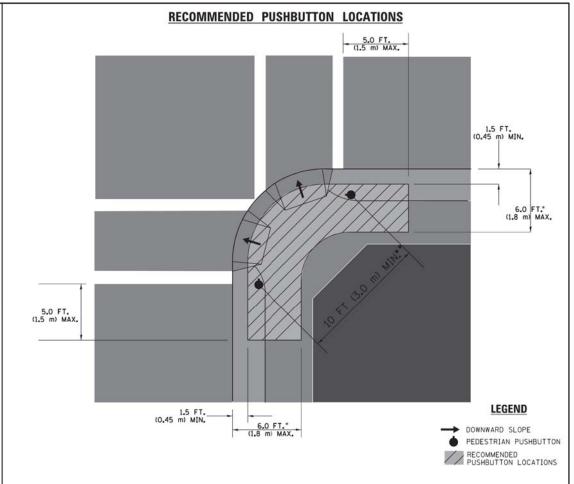
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCO 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.
- 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."



- 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:

- 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.
- 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.

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- 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.
- 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

an and the same an	THAIT TO STOTIAL EGOT METT	None (grante)
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:

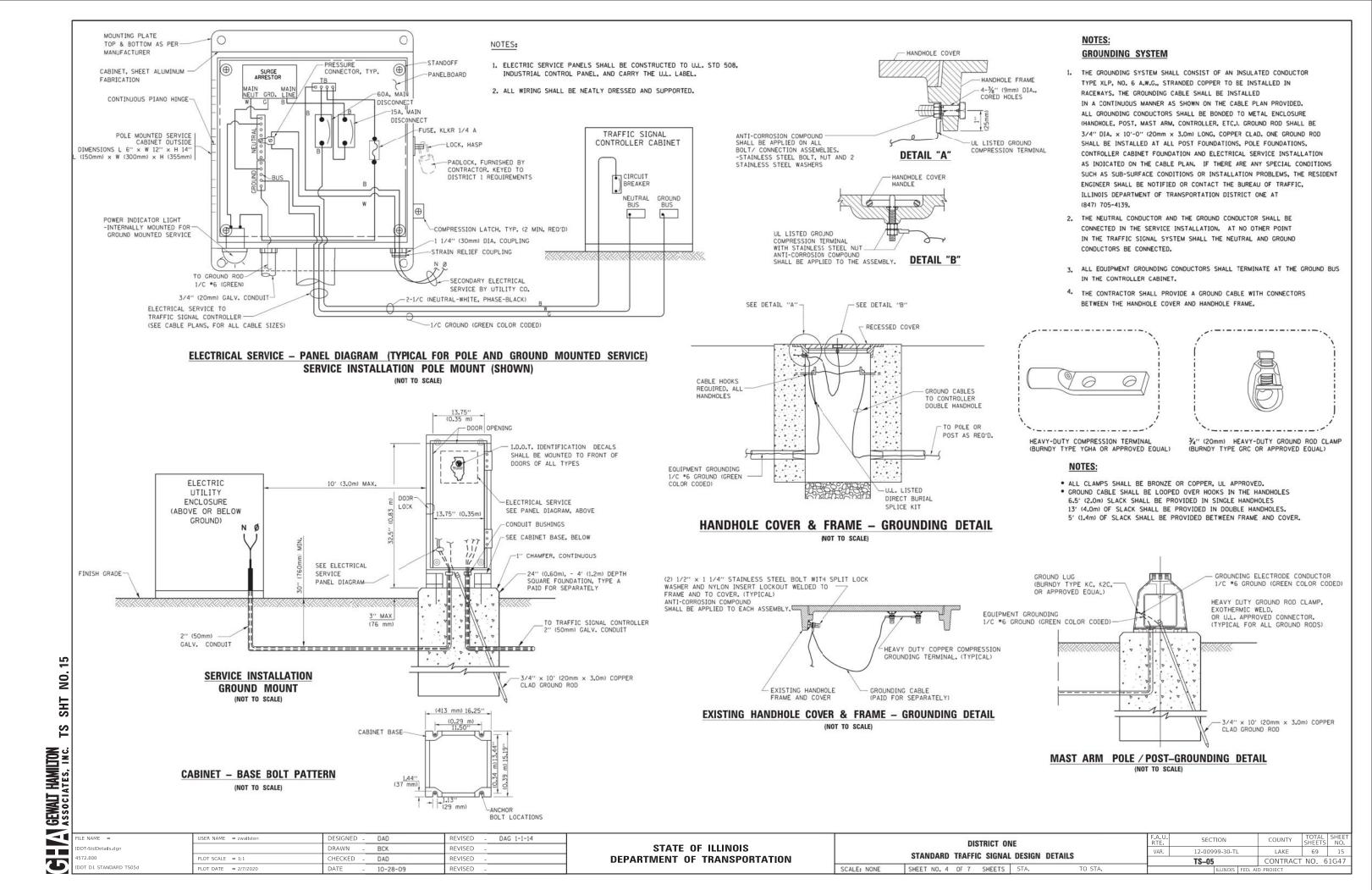
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 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.

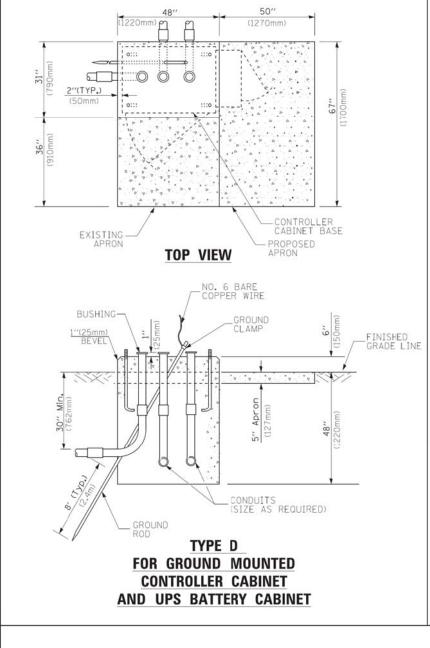
SCALE: NONE

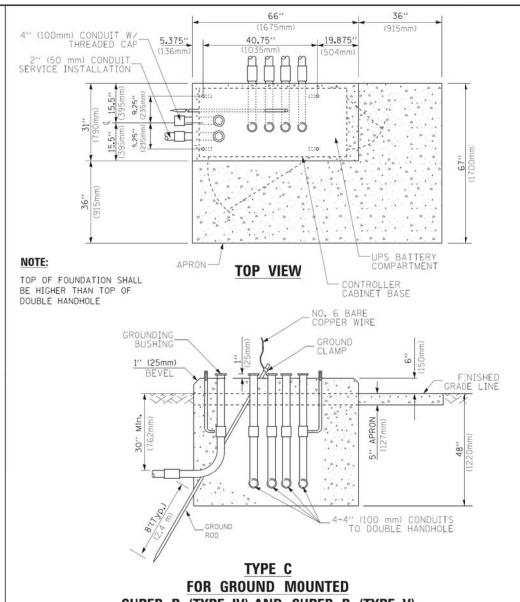
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IDOT-StdDetails.dgn		DRAWN - BCK	REVISED -
4572.800	PLOT SCALE = 1:1	CHECKED - DAD	REVISED -
IDOT D1 STANDARD TS05c	PLOT DATE = 2/7/2020	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

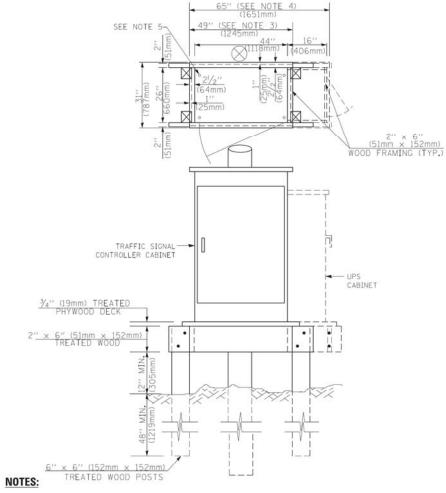
DISTRICT ONE	F.A.U. RTE	SECTION	COUNTY	SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR.	12-00999-30-TL	LAKE	69	14
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	NO. 6	1G47
SHEET NO. 3 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		







SUPER P (TYPE IV) AND SUPER R (TYPE V) **CONTROLLER CABINETS**



- 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
- 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

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 - SOUARE	4'-0'' (1.2m)			

DEPTH OF FOUNDATION

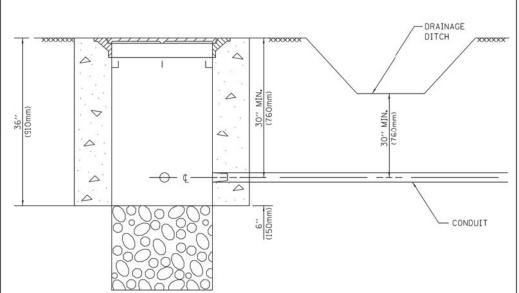
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (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 (Ou) > 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 most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = zwallsten	DESIGNED -	DAG	REVISED -	DAG 1-1-14		DISTRICT ONE			F.A.U. RTE.	SECTION	COUNTY	TOTAL S	HEET NO.	
IDOT-StdDetails.dgn		DRAWN -	BCK	REVISED -		STATE OF ILLINOIS					VAR.	12-00999-30-TL	LAKE	69	16
4572.800	PLOT SCALE = 1:1	CHECKED -	DAD	REVISED -		DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		LS		TS-05	CONTRACT	NO. 61	347	
IDOT D1 STANDARD TS05e	PLOT DATE = 2/7/2020	DATE -	10-28-09	REVISED -			SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



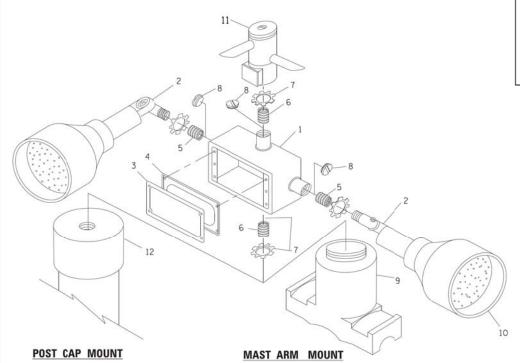
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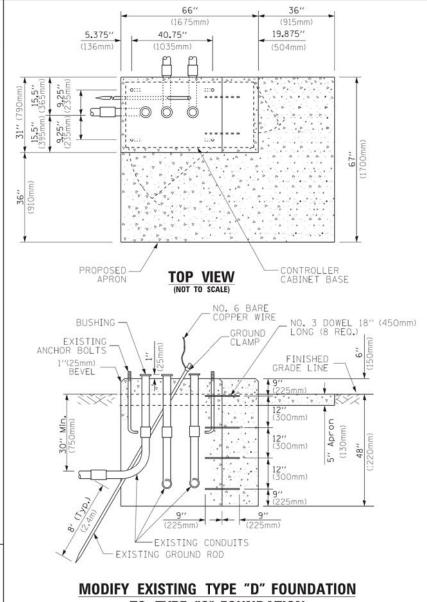
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- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3.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

HANDHOLE WITH MINIMUM CONDUIT DEPTH





TO TYPE "C" FOUNDATION

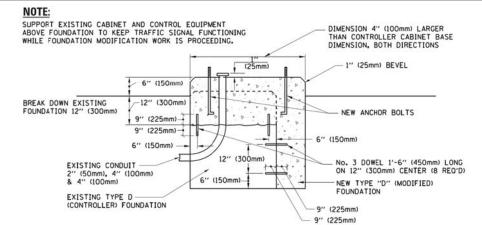
(NOT TO SCALE)

R2.95" (75mm) В-В DRAIN PORT 0.25"-└_0.31"(8mm -0.20"(5mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

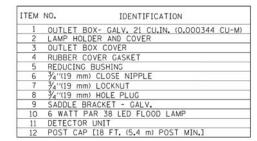
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

- 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.

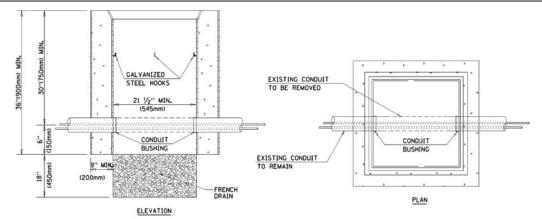


MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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



SCALE: NONE

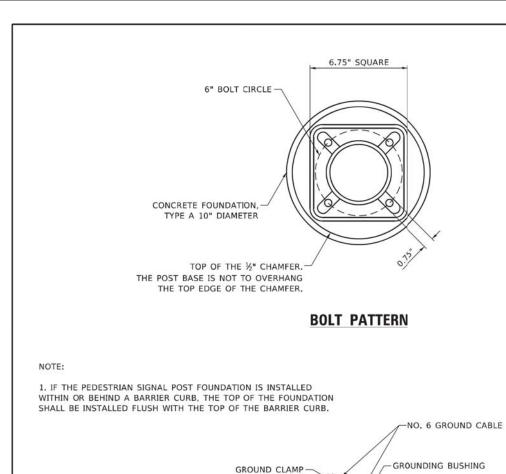
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

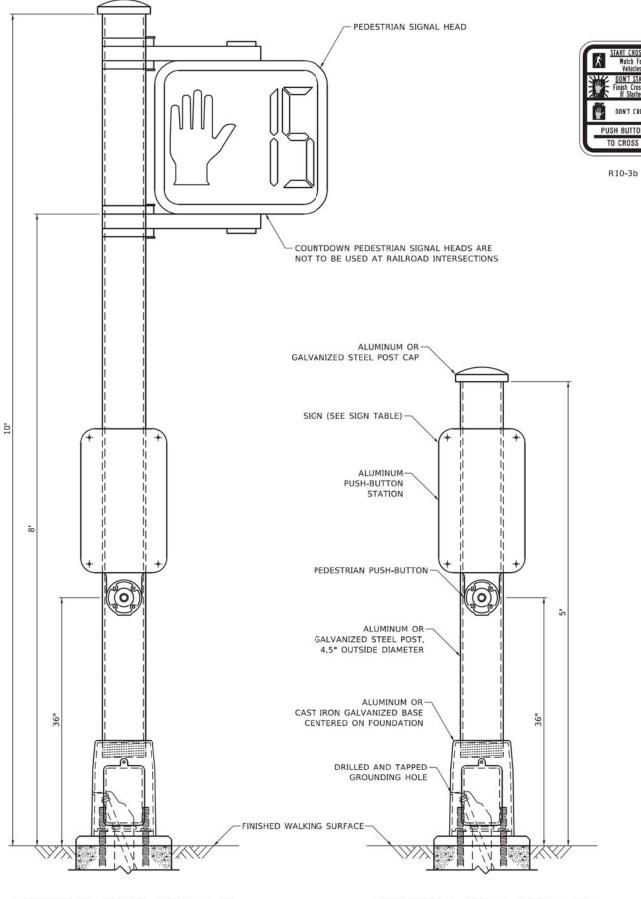
HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = zwallsten	DESIGNED -	DAD	REVISED - DAG 1-1-14
IDOT-StdDetails.dgn		DRAWN -	BCK	REVISED -
4572.800	PLOT SCALE = 1:1	CHECKED -	DAD	REVISED -
IDOT D1 STANDARD TS05f	PLOT DATE = 2/7/2020	DATE -	10-28-09	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

12-00999-30-TL LAKE 69 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 61G47 TS-05 SHEET NO. 6 OF 7 SHEETS STA.





SIGN TABLE

DON'T CROSS

PUSH BUTTON

TO CROSS

R10-3d

DON'T START
Finish Crossing
II Started
TIME REMAINING
TO Finish Crossing

DON'T CROSS

PUSH BUTTON TO CROSS

R10-3e

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

NOTES:

DON'T CROSS

- 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.

FINISHED WALKING SURFACE SEE NOTE %" DIAMETER X 16" LENGTH ANCHOR BOLT, 6" THREADED LENGTH, 12" GALVANIZED LENGTH. 3" THREADED LENGTH SHALL EXTEND ABOVE TOP OF FOUNDATION. 2" GALVANIZED STEEL CONDUIT.-CONDUIT TO EXTEND 1" (25mm) ABOVE TOP OF FOUNDATION WITH GROUNDING BUSHING. CONCRETE FOUNDATION, TYPE A 10" DIAMETER

TS SHT NO.

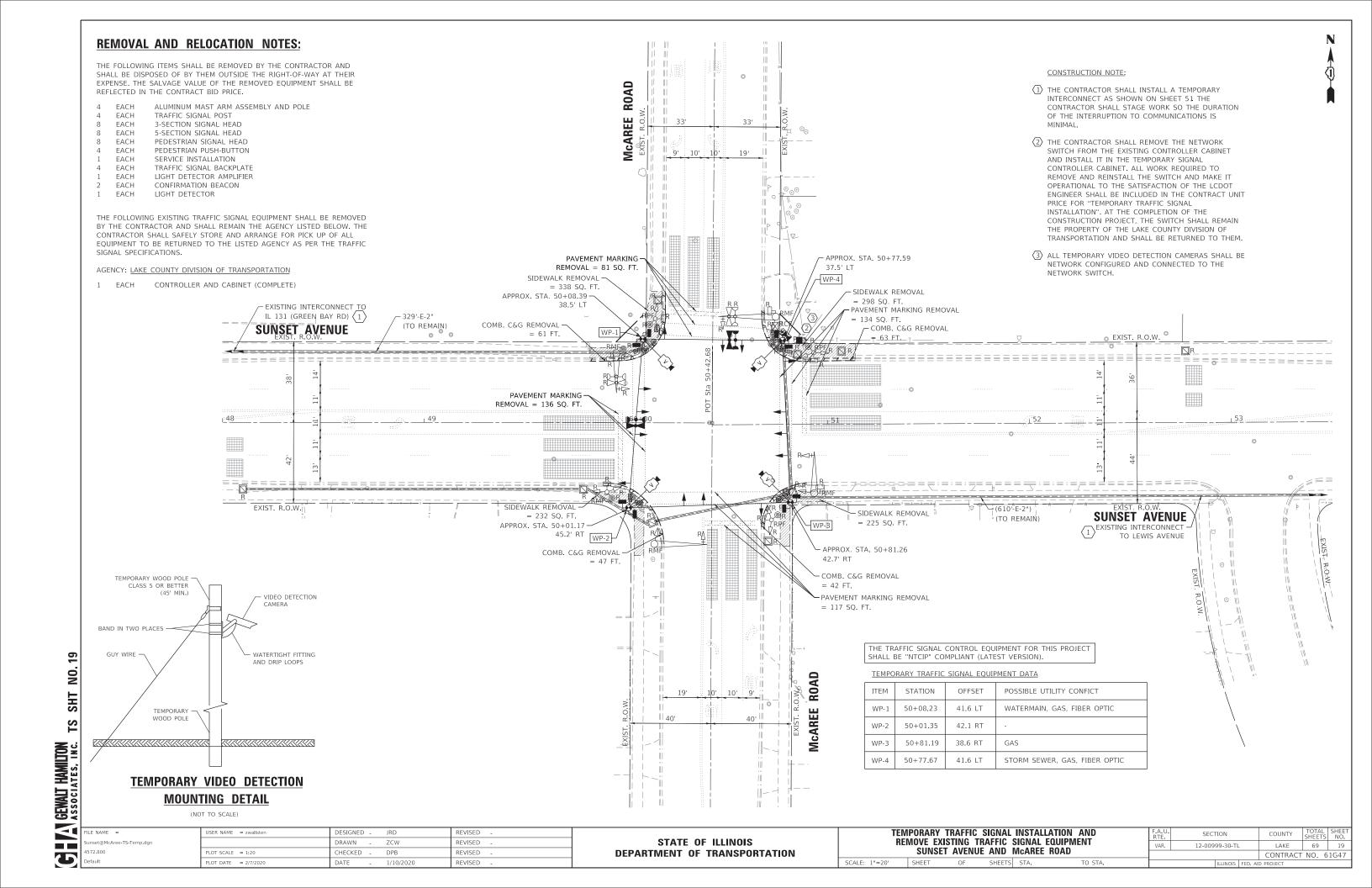
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER

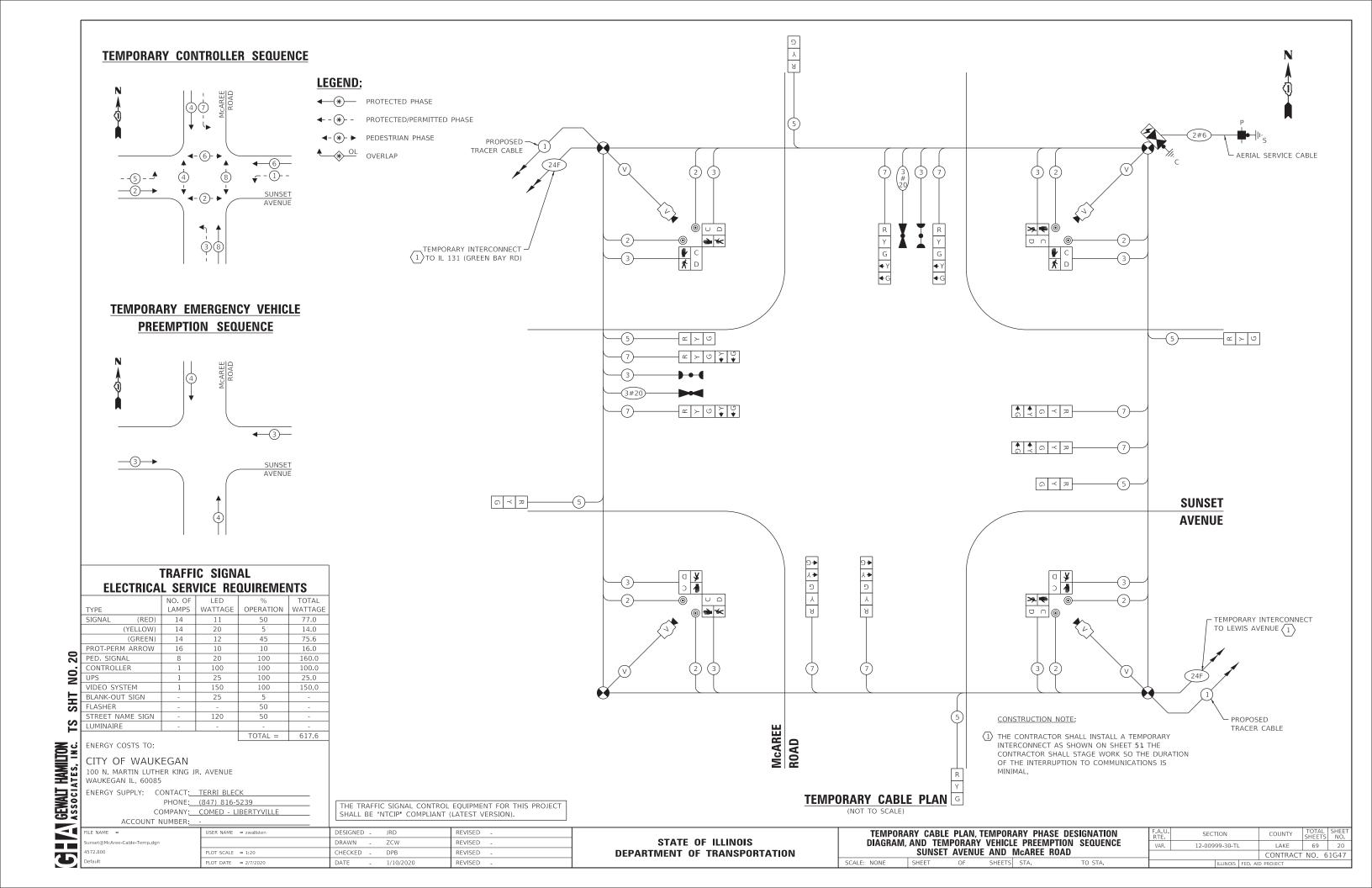
½" CHAMFER

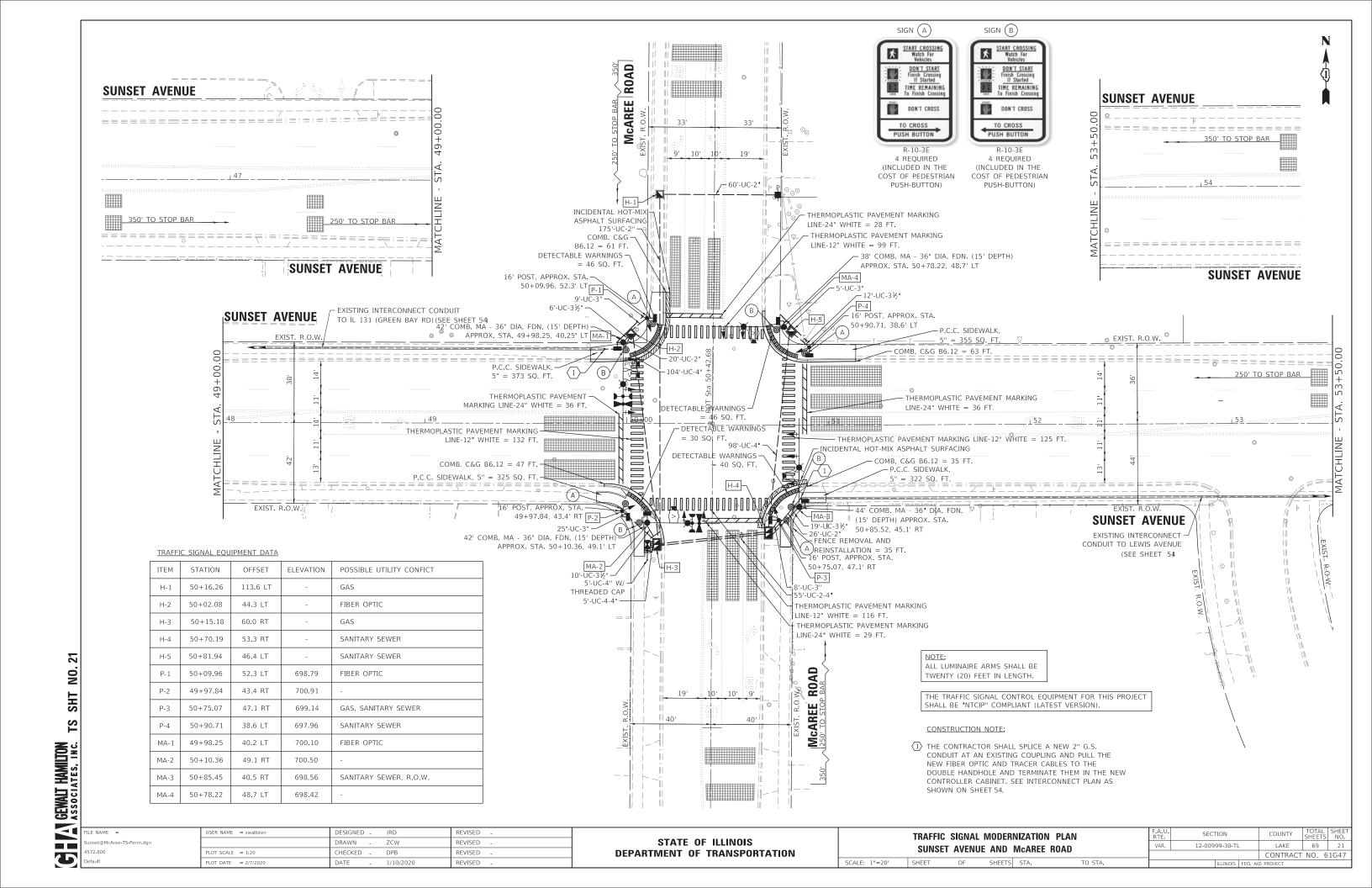
PEDESTRIAN SIGNAL POST, 10 FT.

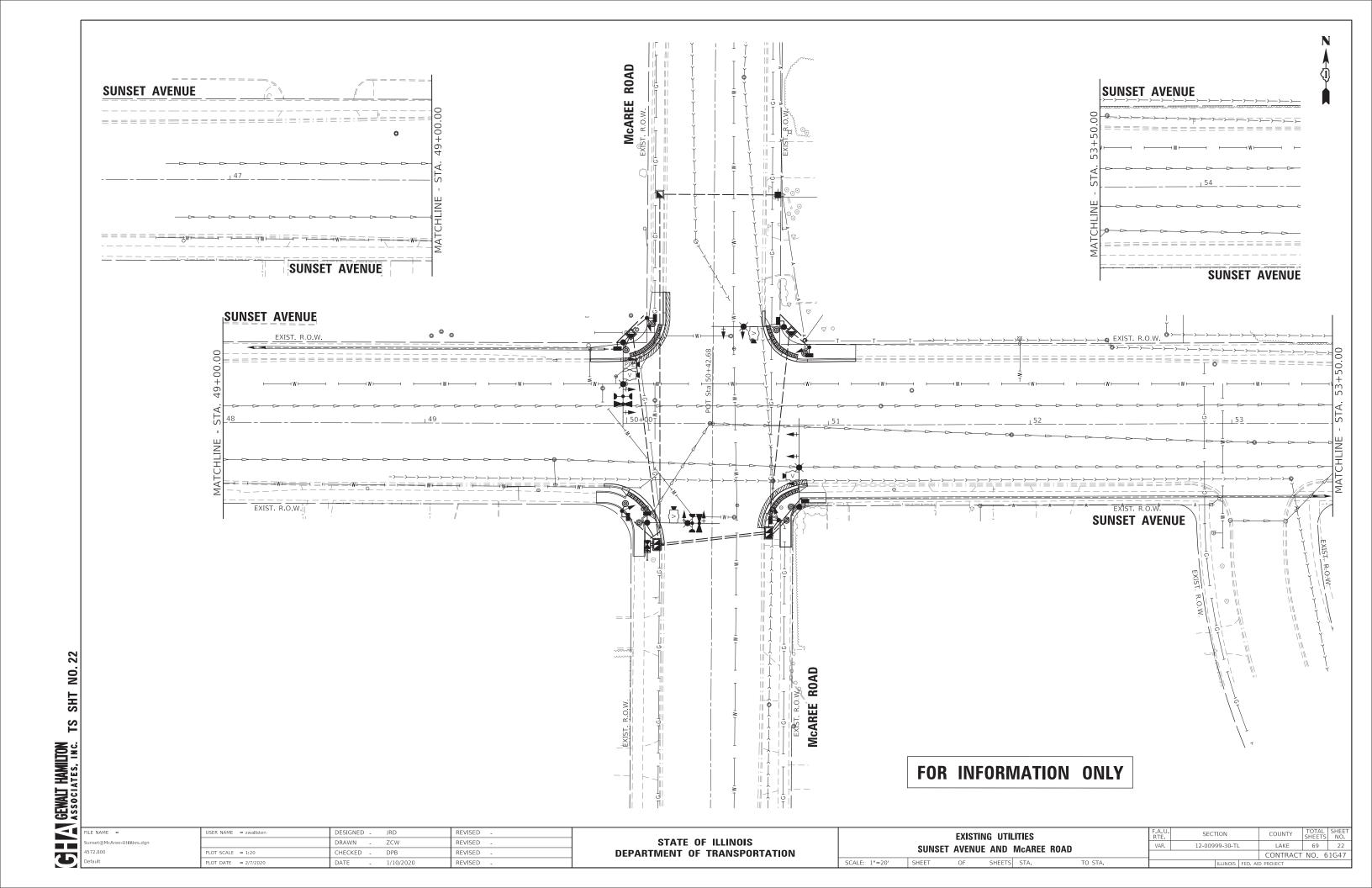
PEDESTRIAN SIGNAL POST, 5 FT.

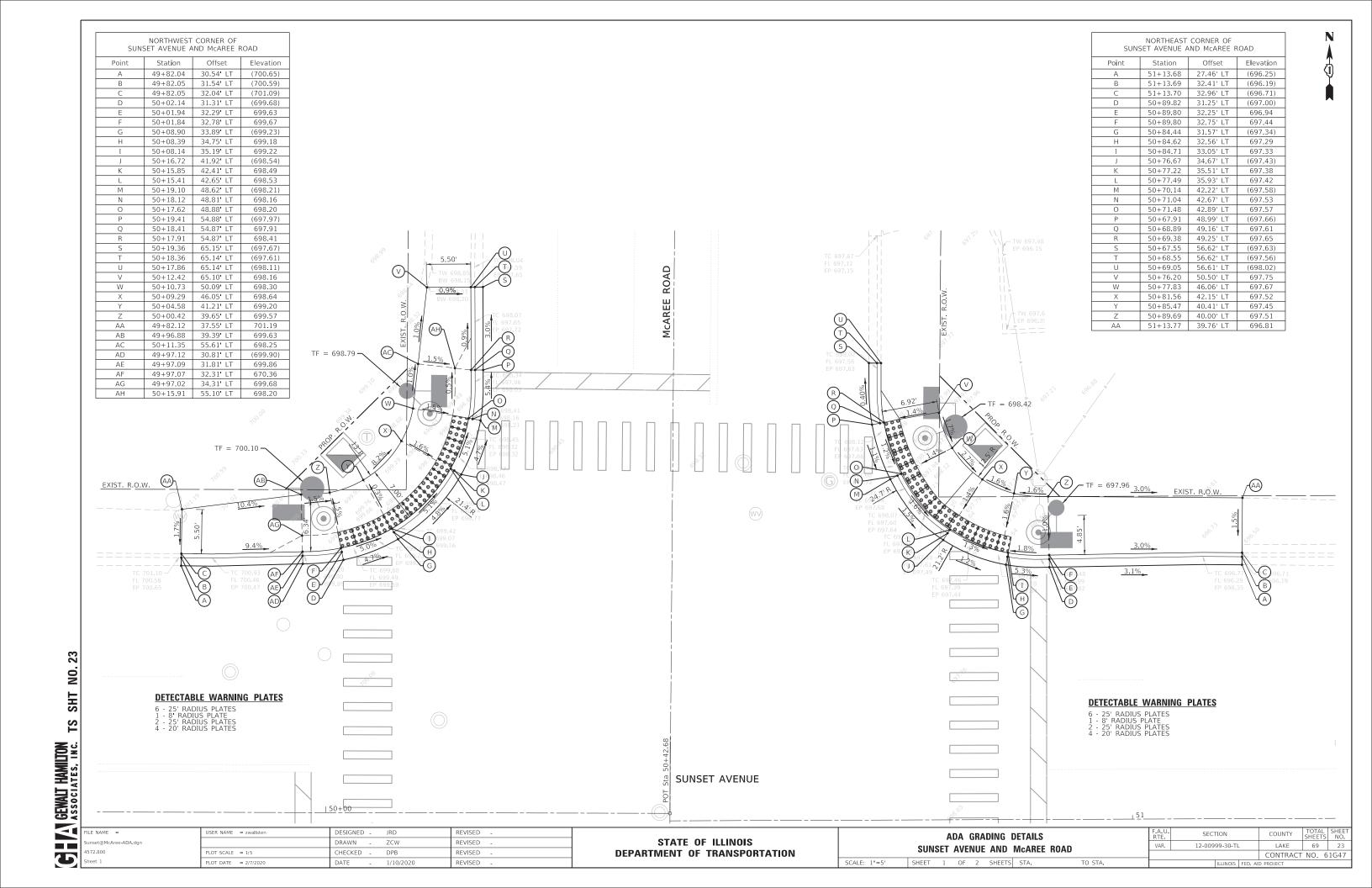
AMILTON ES, INC.	%" DIAMETER X 10' LENGTH— GROUND ROD						THE TENT OF THE PARTY OF THE PA	NO SUNI ACE	11、11、11、11、11、11、11、11、11、11、11、11、11、				
GEWALT HASSOCIAT	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER						PEDESTRIAN SIGNAL POST, 10 FT.	PED	DESTRIAN SIGNAL POST, 5 FT.				
4	FILE NAME =	USER NAME = zwallsten	DESIGNED -	IP	REVISED	IP 1/8/2020			DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
I I	IDOT-StdDetails.dgn		DRAWN -	JP .	REVISED	-	STATE OF ILLINOIS		STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR.	12-00999-30-TL	LAKE	69 18
	4572.800	PLOT SCALE = 1:1	CHECKED -	LP	REVISED	-	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRAC	T NO. 61G47
	IDOT D1 STANDARD TS05g	PLOT DATE = 2/7/2020	DATE -	10/15/2018	REVISED	-		SCALE: NONE	SHEET 7 OF 7 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	

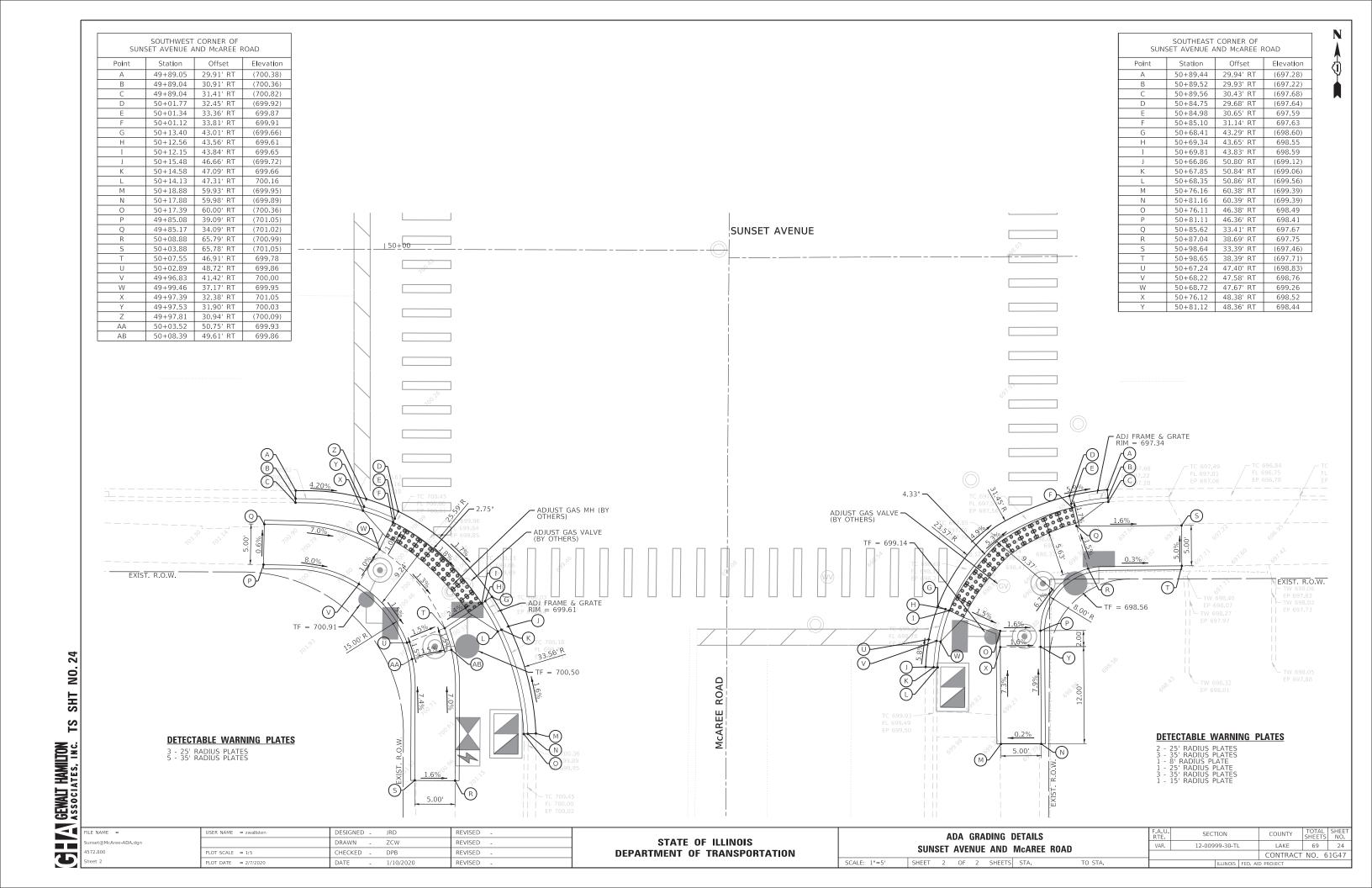




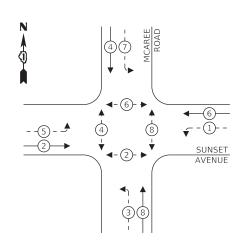








PROPOSED CONTROLLER SEQUENCE



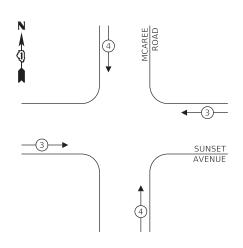
LEGEND:

◆ * PROTECTED PHASE ← - (*)- - PROTECTED/PERMITTED PHASE

√- (*)- ► PEDESTRIAN PHASE

OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

NO. OF LED % TOTAL

	TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
	SIGNAL (RED)	14	11	50	77.0
	(YELLOW)	14	20	5	14.0
	(GREEN)	14	12	45	75.6
	PROT-PERM ARROW	16	10	10	16.0
25	PED. SIGNAL	8	20	100	160.0
NO.	CONTROLLER	1	100	100	100.0
	UPS	1	25	100	25.0
	VIDEO SYSTEM	1	150	100	150.0
누	BLANK-OUT SIGN	-	25	5	-
SHT	FLASHER	-	-	50	-
	STREET NAME SIGN	4	120	50	240.0
TS	LUMINAIRE	4	250	50	500.0
•				TOTAL =	1357.6

CITY OF WAUKEGAN

ENERGY COSTS TO:

CITY OF WAUKE
100 N MARTIN LUTHER
WAUKEGAN, IL 60085 100 N MARTIN LUTHER KING JR. AVENUE

GEWALT |

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G

ENERGY SUPPLY: CONTACT: TERRI BLECK PHONE: 847-816-5235

COMPANY: COMED - LIBERTYVILLE ACCOUNT NUMBER:

DESIGNED -REVISED JSER NAME = zwallster DRAWN ZCW REVISED DPB REVISED PLOT DATE = 2/7/2020 REVISED 1/10/2020

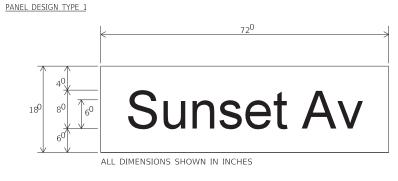
SHALL BE "NTCIP" COMPLIANT (LATEST VERSION).

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SUNSET AVENUE AND McAREE ROAD SHEETS STA.

SECTION LAKE 69 25 12-00999-30-TL CONTRACT NO. 61G47

@ U _ **→** << 215' Sunset Av Rd McAr **SUNSET AVENUE** PROPOSED INTERCONNECT vA jəsnu2 TO LEWIS AVENUE PROPOSED INTERCONNECT -TO IL 131 (GREEN BAY RD) PROPOSED 0 0 @ TRACER CABLE PROPOSED -TRACER CABLE FULL ACTUATED CONTROLLER & TYPE IV CABINET, SPECIAL **CABLE PLAN** THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

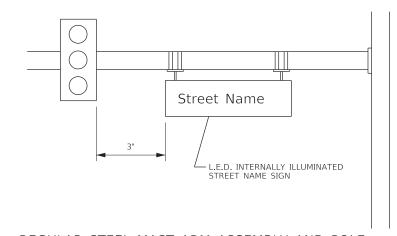


McAree Rd

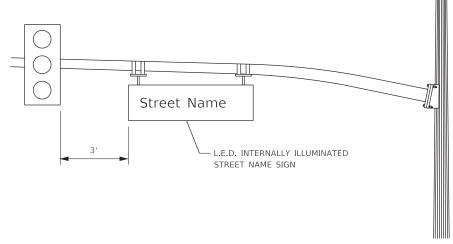
ALL DIMENSIONS SHOWN IN INCHES

<u>9.0</u> sq. ft. each ____ SINGLE SIDED REQUIRED 2 DOUBLE SIDED REQUIRED DESIGN SERIES ____D__ HIGHWAY GOTHIC FONT

<u>9.0</u> sq. ft. each ____ SINGLE SIDED REQUIRED 2 DOUBLE SIDED REQUIRED DESIGN SERIES ___D_ HIGHWAY GOTHIC FONT



REGULAR STEEL MAST ARM ASSEMBLY AND POLE



DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS.

JSER NAME = zwallsten DESIGNED - JRD REVISED

DRAWN -ZCW REVISED CHECKED . DPB REVISED PLOT DATE = 2/7/2020 REVISED 1/10/2020

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
EARTH EXCAVATION	CU YD	2
INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	2
PROTECTIVE COAT	SQ YD	184
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,444
COMBINATION CURB AND GUTTER REMOVAL	FOOT	268
SIDEWALK REMOVAL	SQ FT	1,148
FRAMES AND GRATES TO BE ADJUSTED	EACH	2
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	216
CHAIN LINK FENCE, 4'	FOOT	35
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	278
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	52
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	337
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	730
		4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,039
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,579
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,001
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,279
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	264
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	708
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	177
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,290
OUTDOOR RATED NETWORK CABLE	FOOT	190
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	4
DETECTABLE WARNINGS (SPECIAL)	SQ FT	162
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.20
GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	472
GROOVING FOR RECESSED PAVEMENT MARKING 15	FOOT	129
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	129
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	2
	EACH	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL) STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)		1
	EACH	1
SEEDING (COMPLETE)	SQ YD	26
FENCE REMOVAL	FOOT	35
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
Vibro Bertenion Statem Comments in Michael Ton	I	
VIDEO BETERTION STREET CONTESTS INTERIORIESTICAL		
VIDEO DE LEON ON STOLEN COM ELENE AMERICACION		
THE SETTEM STREET CONTRACT TO THE STREET TO		
VISES BETESTION STOTELY CONTESTS INVENIENCE TON		

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES SUNSET AVENUE AND McAREE ROAD SHEETS STA.

SECTION 12-00999-30-TL LAKE 69 26 CONTRACT NO. 61G47

STATE OF ILLINOIS

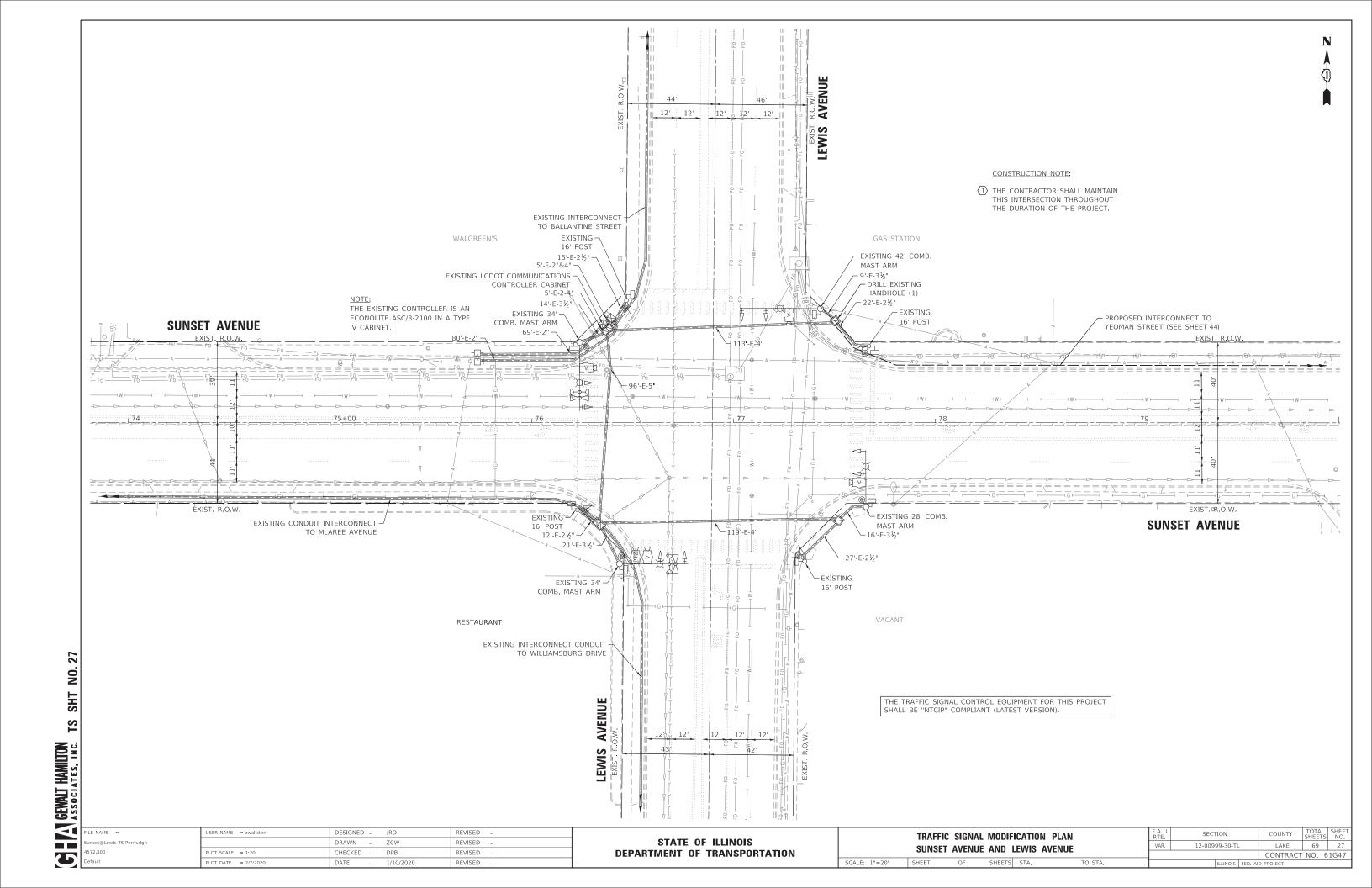
DEPARTMENT OF TRANSPORTATION

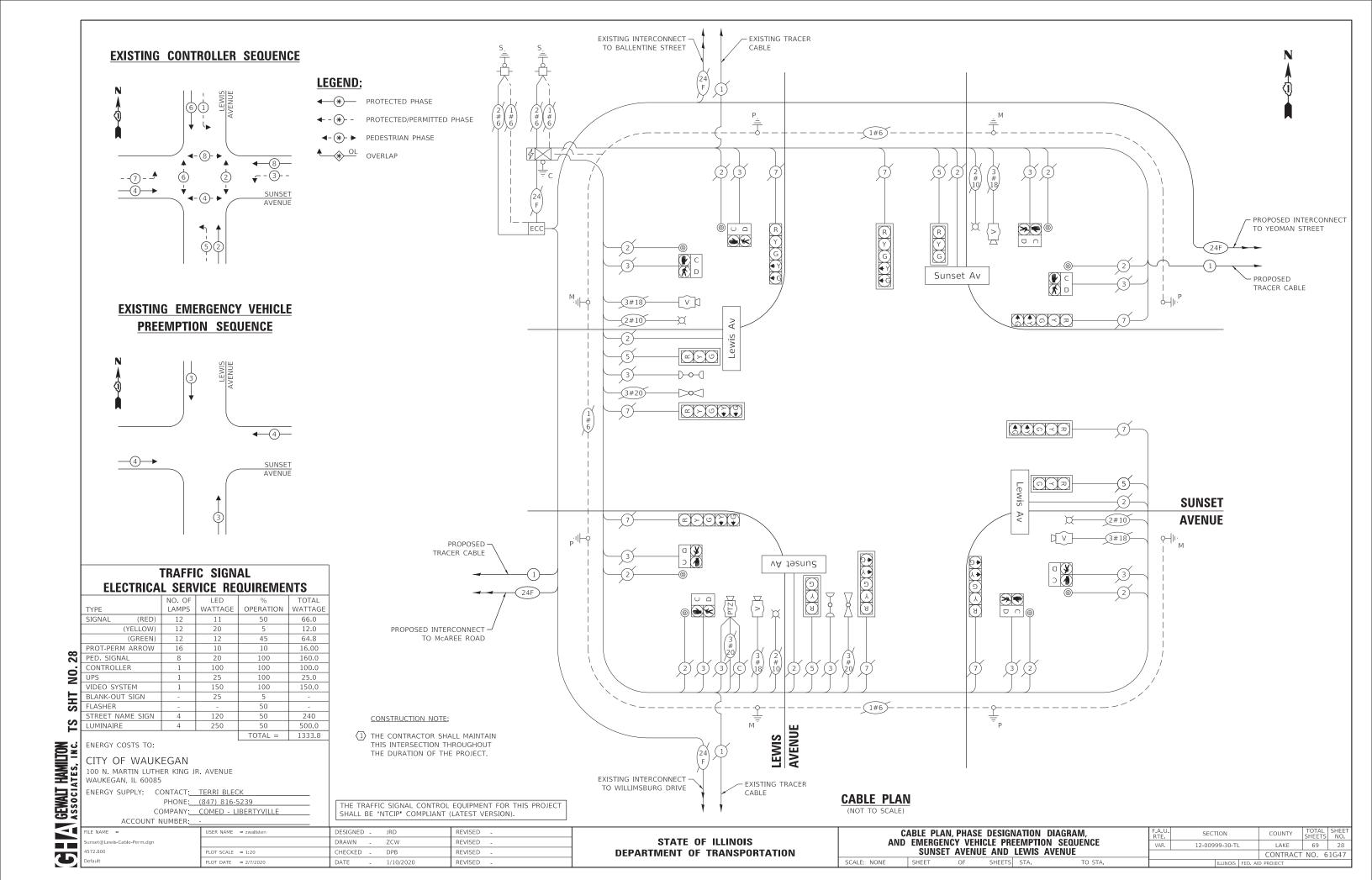
SCALE: NONE

G V GEWALT HAMILTON ASSOCIATES, INC.

SHT NO. 26

TS





GEWALT HAMILTON ASSOCIATES, INC. TS SHT NO. 29

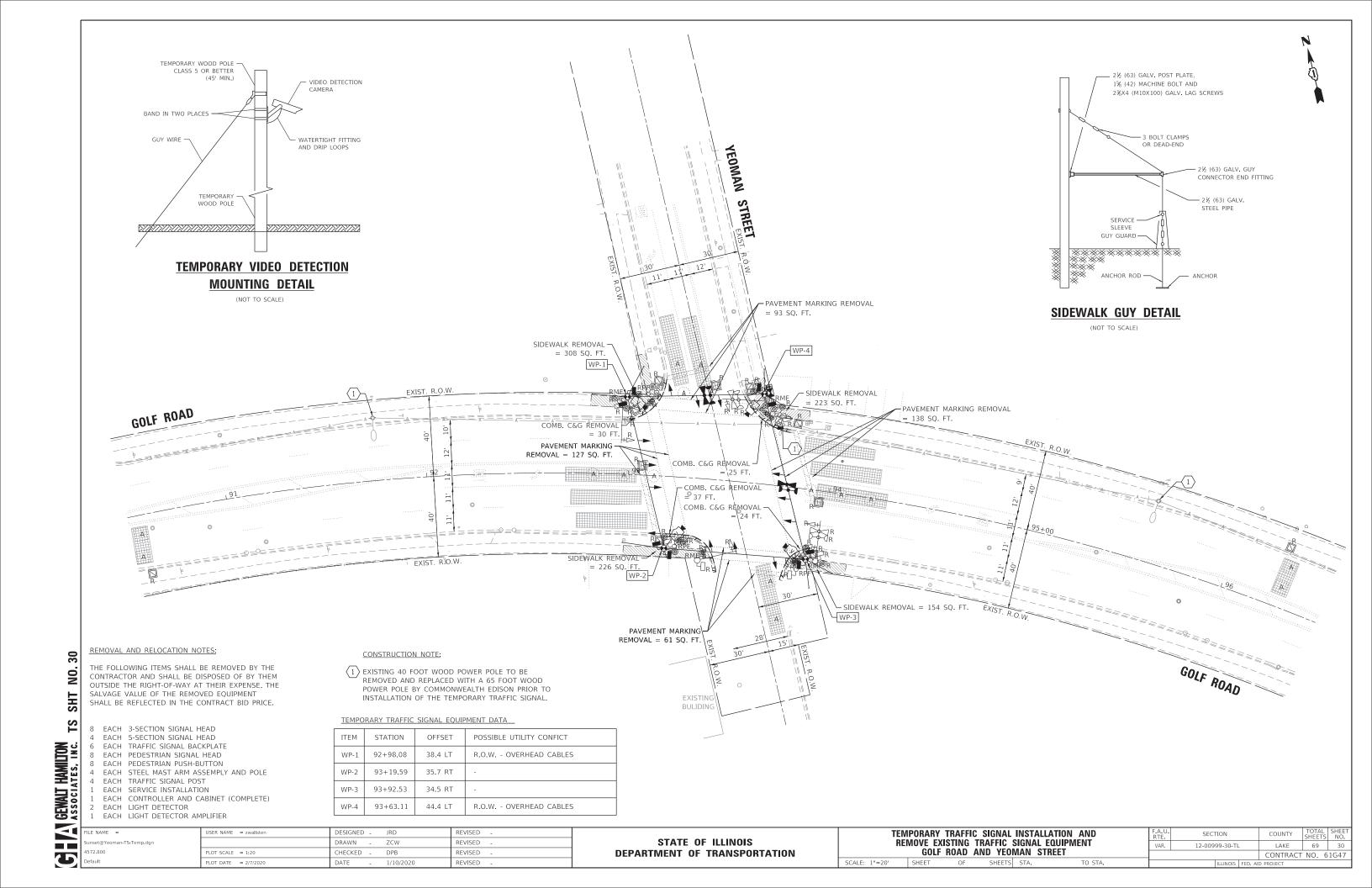
USER NAME = zwallsten DESIGNED JRD REVISED DRAWN ZCW REVISED PLOT SCALE = 1:20 CHECKED DPB REVISED PLOT DATE = 2/7/2020 DATE 1/10/2020 REVISED

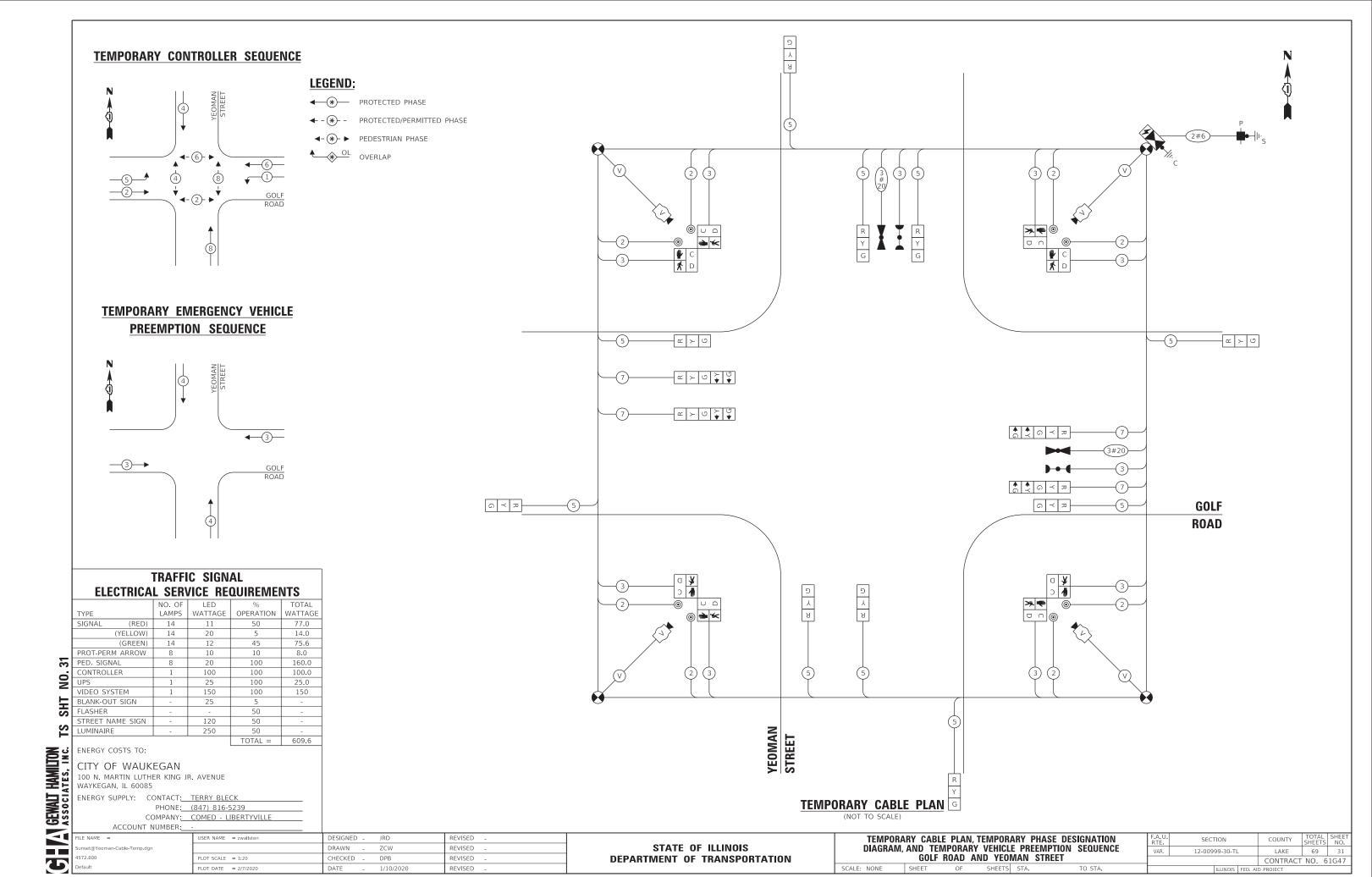
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

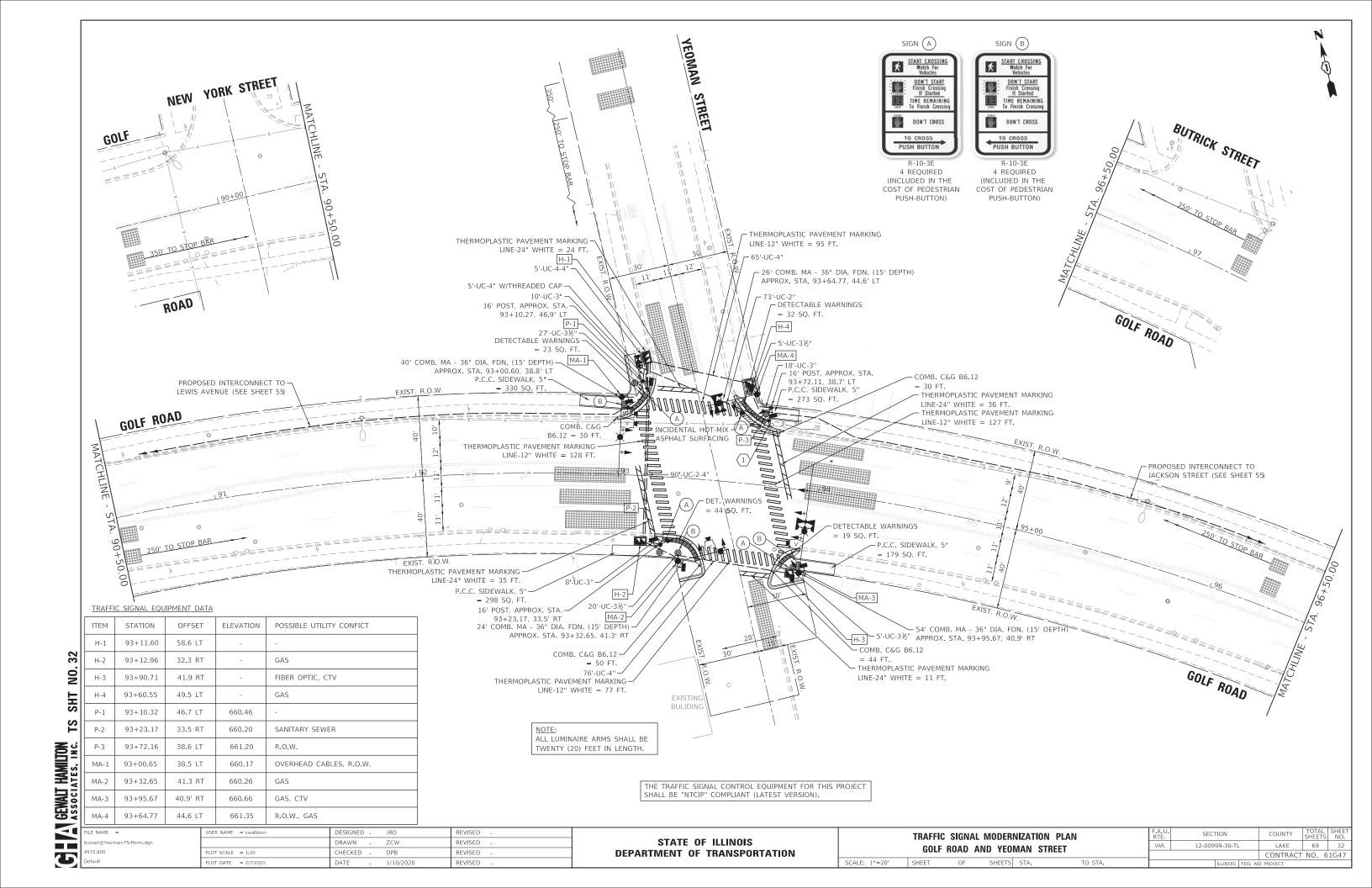
SCHEDULE OF QUANTITIES	F.A.U. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
SUNSET AVENUE AND LEWIS AVENUE	VAR.	12-009	99-30-TL		LAKE	69	29
CONCET AVENCE AND LEWIS AVENCE					CONTRACT	ΓNO. 6	1G47
SCALE: NONE SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AIC	PROJECT		

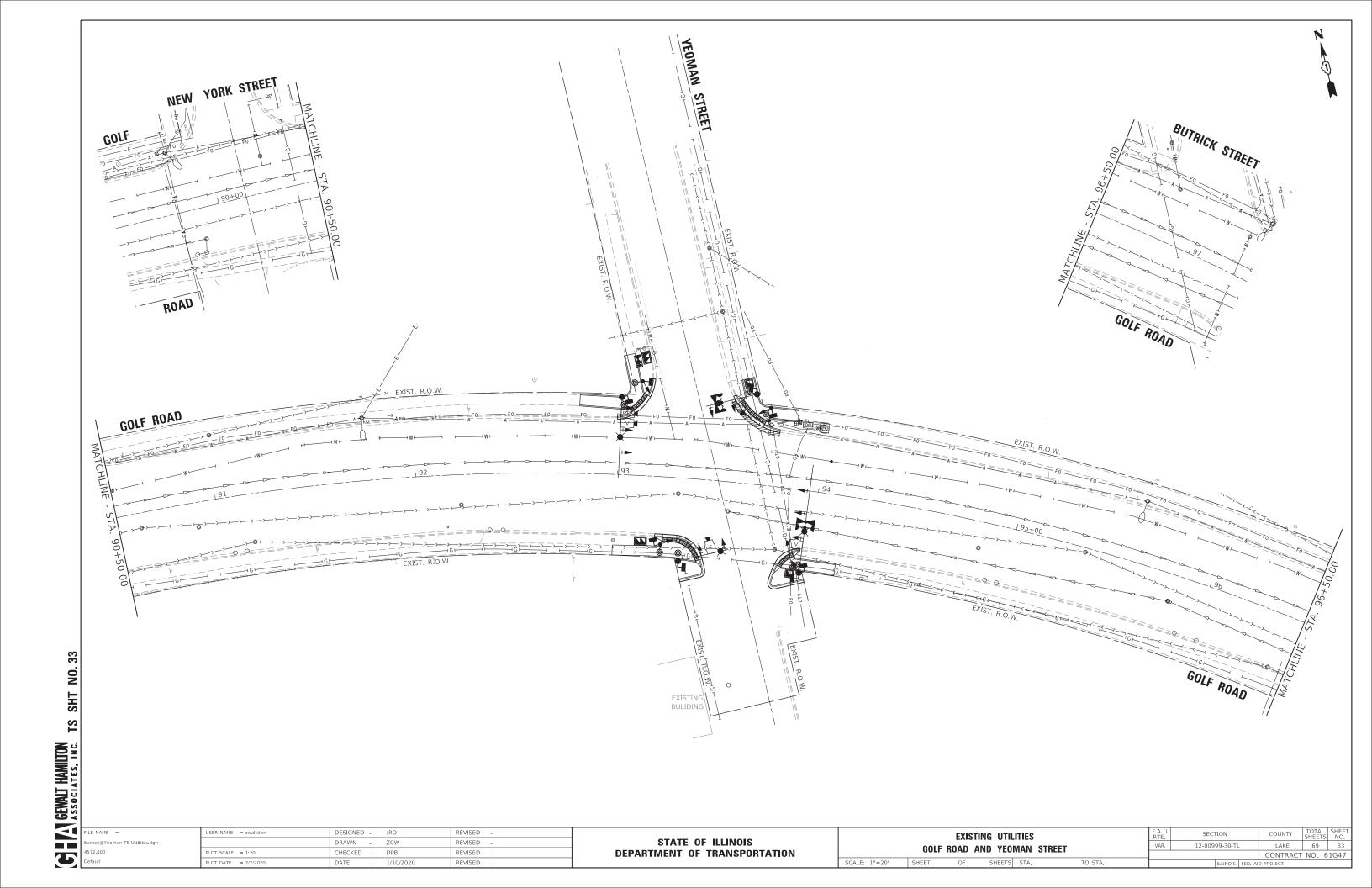
SCHEDULE OF QUANTITIES

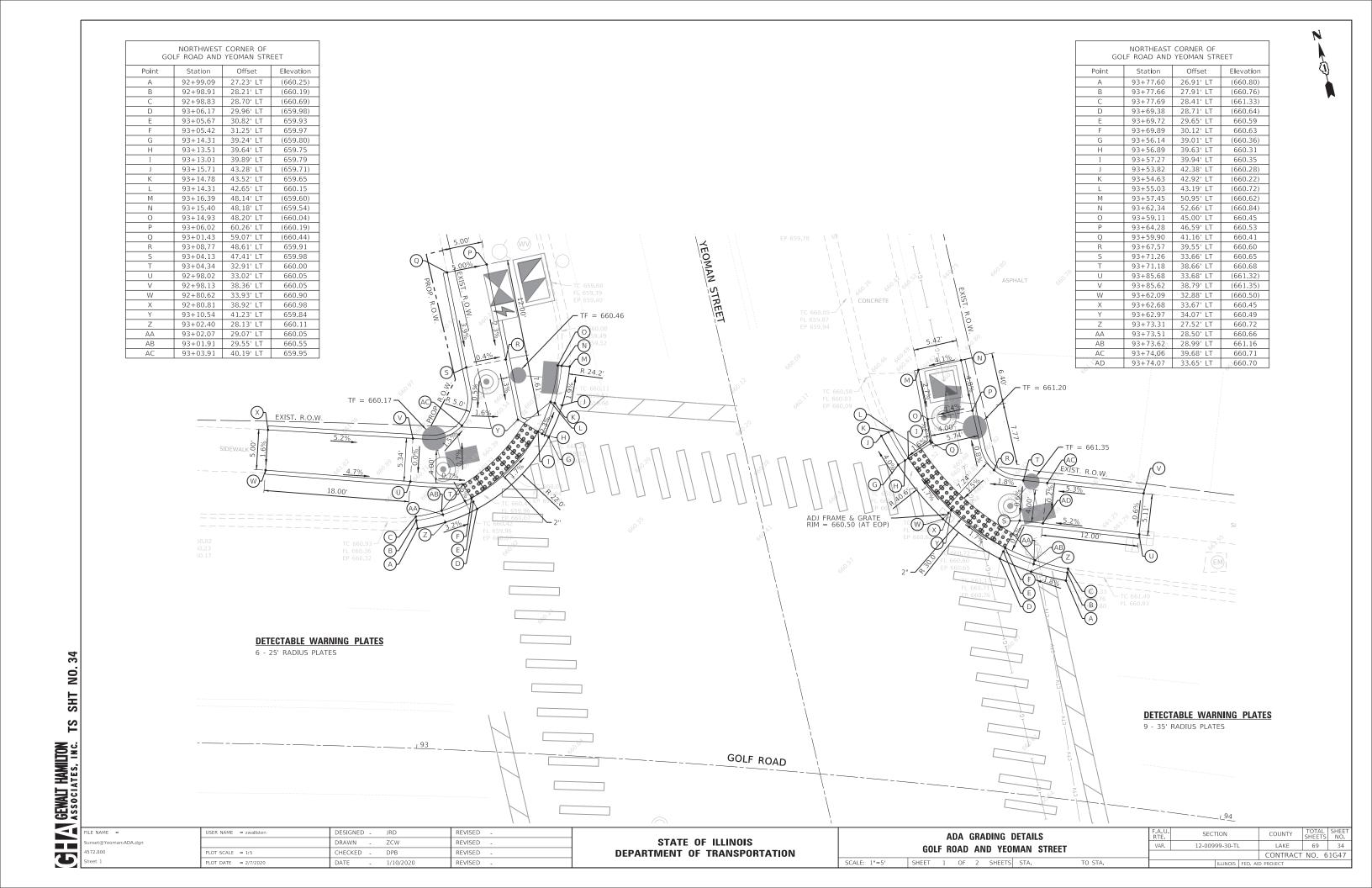
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1

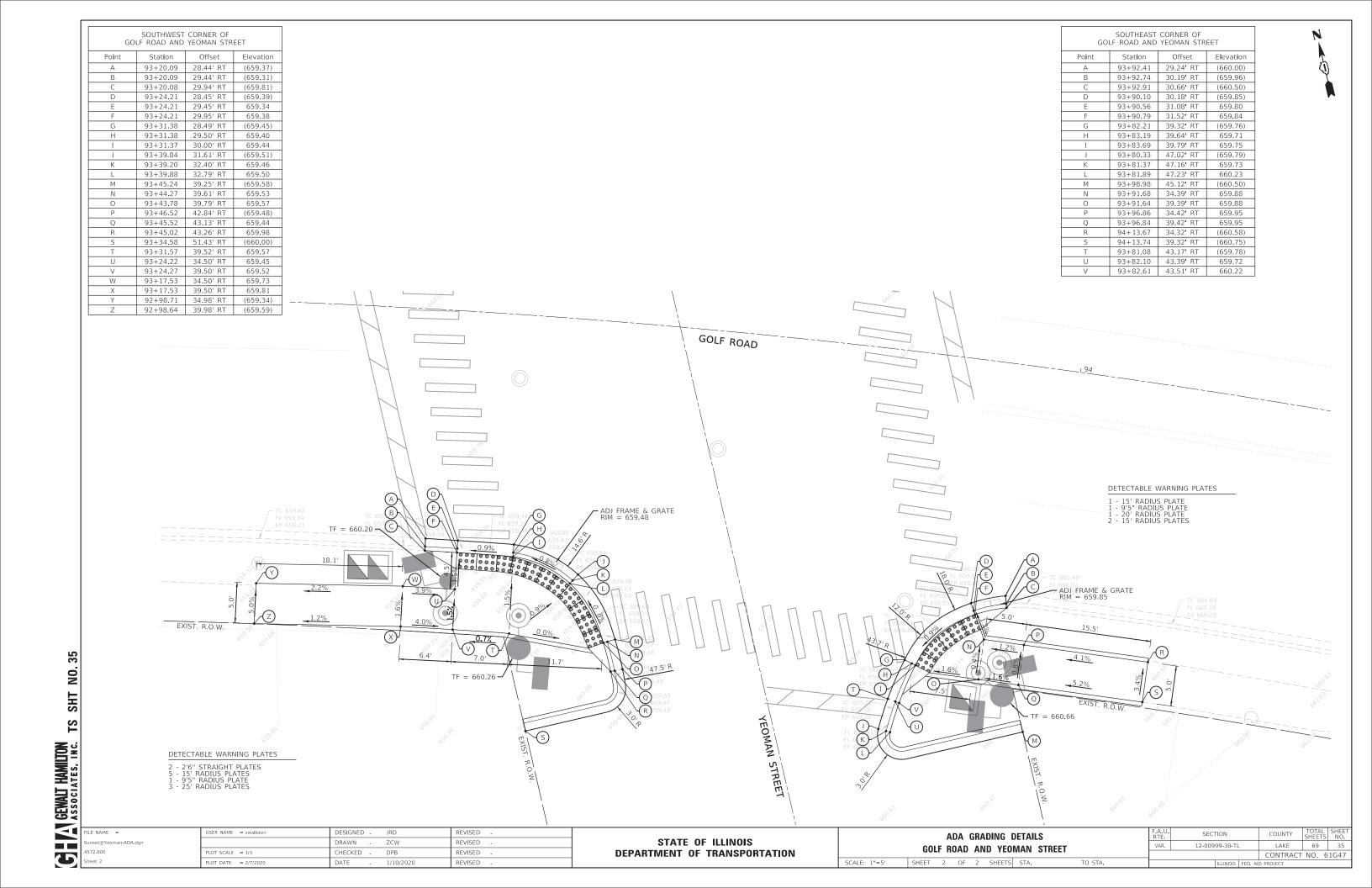




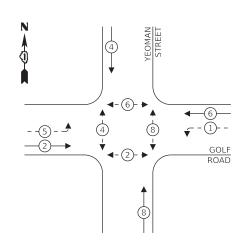


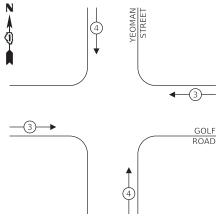






PROPOSED CONTROLLER SEQUENCE





TRAFFIC SIGNAL FLECTRICAL SERVICE REQUIREMENTS

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PROT-PERM ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	4	250	50	500.0
			TOTAL =	1,349.6

ENERGY COSTS TO:

CITY OF WAUKE
100 N. MARTIN LUTHER
WAUKEGAN, IL 60085 CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVENUE

ENERGY SUPPLY: CONTACT: TERRI BLECK

COMPANY: COMED - LIBERTYVILLE ACCOUNT NUMBER:

DESIGNED -JSER NAME = zwallster JRD REVISED DRAWN ZCW REVISED DPB REVISED PLOT DATE = 2/7/2020 REVISED 1/10/2020

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT (LATEST VERSION).

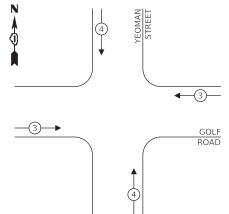
CABLE PLAN

STATE OF ILLINOIS SHEETS STA.

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE **GOLF ROAD AND YEOMAN STREET**

SECTION LAKE 69 36 12-00999-30-TL CONTRACT NO. 61G47

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

◆ * PROTECTED PHASE ← - (*)- - PROTECTED/PERMITTED PHASE

√- (*)- ► PEDESTRIAN PHASE

OL OVERLAP

PROPOSED INTERCONNECT TO -LEWIS AVENUE

TRACER CABLE

PROPOSED -

Golf Rd

YEOMAN STREET

Golf Rd

>> **₹**

PROPOSED

GOLF ROAD

TO JACKSON STREET

PROPOSED INTERCONNECT

TRACER CABLE

	LLLGINIGAL SENVICE NEGOINEWENTS						
			NO. OF	LED	%	TOTAL	
	TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE	
	SIGNAL	(RED)	14	11	50	77.0	
		(YELLOW)	14	20	5	14.0	
		(GREEN)	14	12	45	75.6	
	PROT-PERM ARROW		8	10	10	8.0	
36	PED. SIG	NAL	8	20	100	160.0	
	CONTROI	LER	1	100	100	100.0	
NO.	UPS		1	25	100	25.0	
	VIDEO S	/STEM	1	150	100	150.0	
누	BLANK-O	UT SIGN	-	25	5	-	
SHT	FLASHER		-	-	50	-	
-	CTDEET,		4	120	F.0	2400	

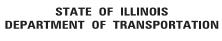
TS

GEWALT |

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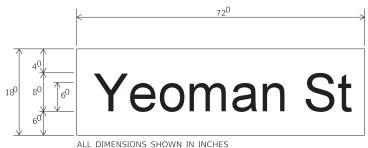
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PHONE: (847) 816-5239

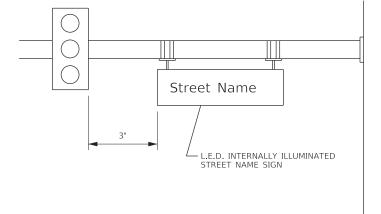




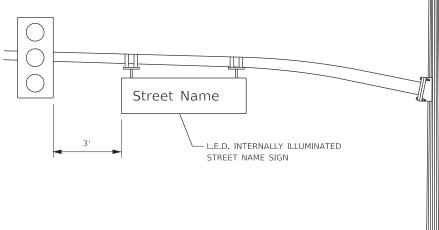
<u>9.0</u> sq. ft. each ____ SINGLE SIDED REQUIRED 2 DOUBLE SIDED REQUIRED DESIGN SERIES ____D__ HIGHWAY GOTHIC FONT



<u>9.0</u> sq. ft. each ____ SINGLE SIDED REQUIRED 2 DOUBLE SIDED REQUIRED DESIGN SERIES ____D__ HIGHWAY GOTHIC FONT



REGULAR STEEL MAST ARM ASSEMBLY AND POLE



DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS.

USER NAME = zwallsten	DESIGNED -	JRD	REVISED -
	DRAWN -	ZCW	REVISED -
PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -
PLOT DATE = 2/7/2020	DATE -	1/10/2020	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: NONE

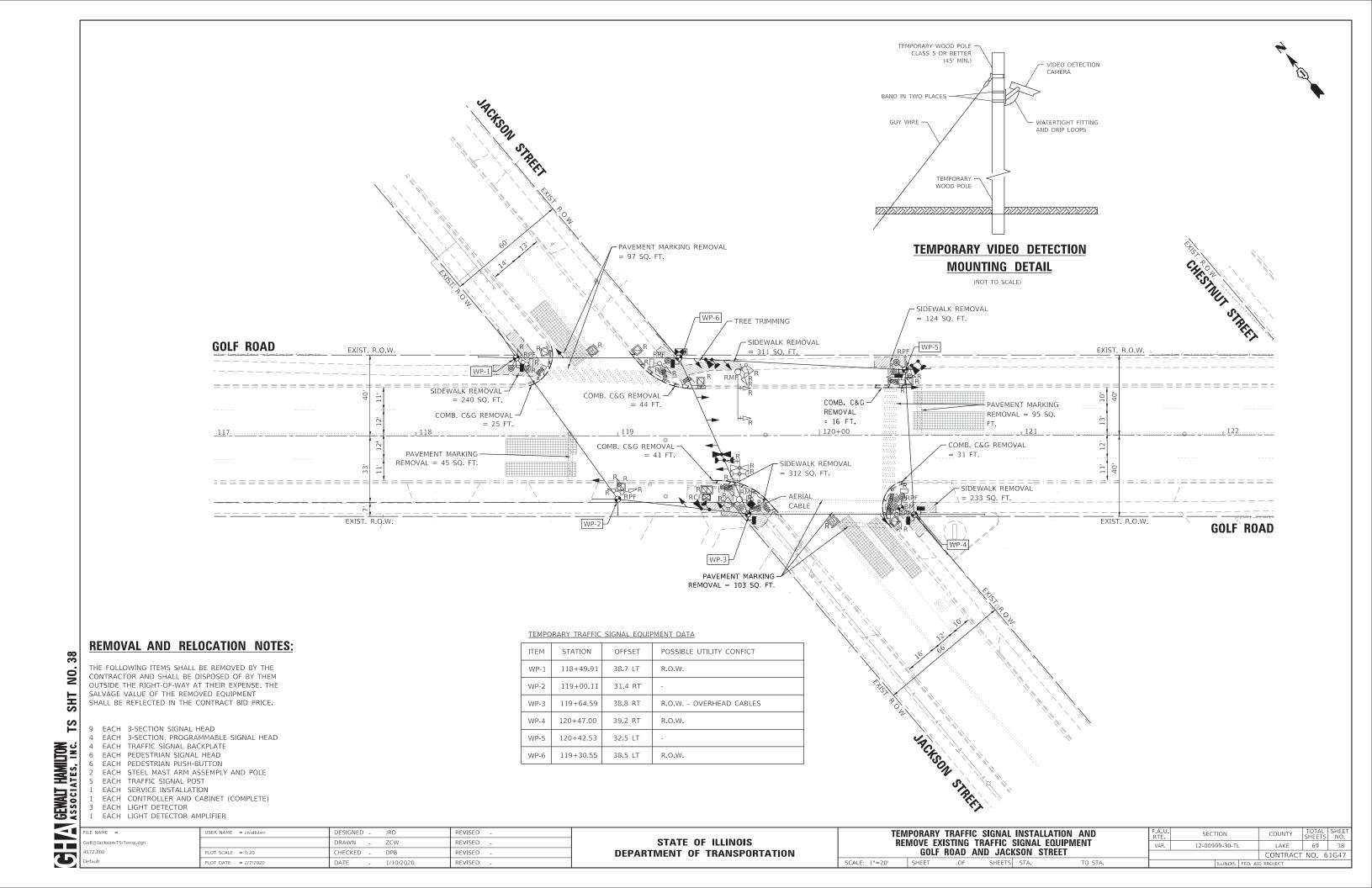
M	AST ARM				IAME SIGNS	F.A.U. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
			ULE OF (VAR.	12-00999-30	TL		LAKE	69	37
	GOLF	KUAD A	ND YEO	VIAIN	STREET					CONTRACT	NO. 6	1G47
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINO	IS	FED. All	D PROJECT		

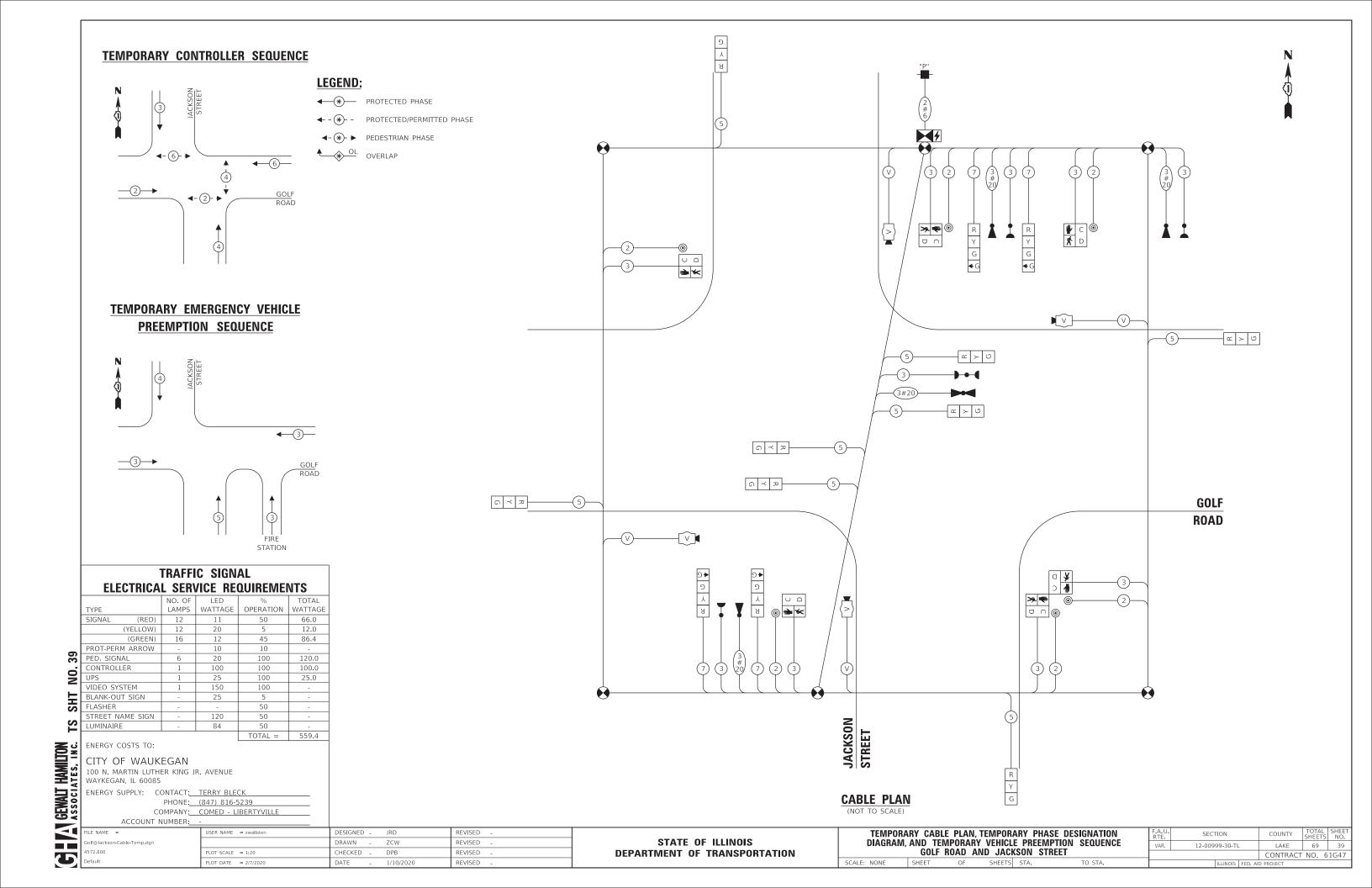
SCHEDULE OF QUANTITIES

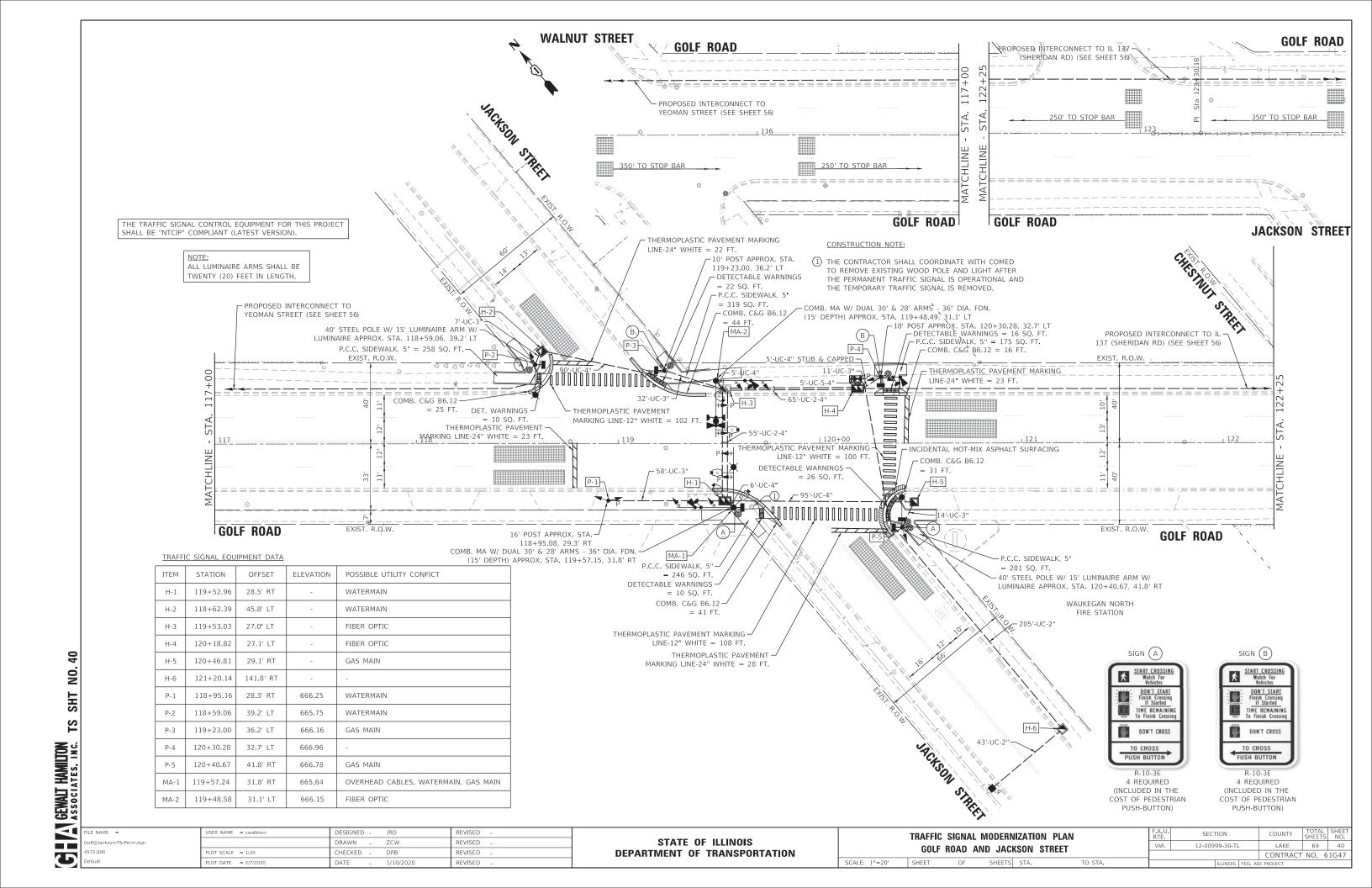
ITEM DESCRIPTION	UNITS	TOTAL QTY.
EARTH EXCAVATION	CU YD	2
INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	2
PROTECTIVE COAT	SQ YD	144
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,134
COMBINATION CURB AND GUTTER REMOVAL	FOOT	103
SIDEWALK REMOVAL	SQ FT	957
FRAMES AND GRATES TO BE ADJUSTED	EACH	3
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	162
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	73
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	39
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	57
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	346
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10		784
	FOOT	4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	· ·
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,787
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,600
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,607
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	635
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	93
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	486
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	406
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	419
OUTDOOR RATED NETWORK CABLE	FOOT	117
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	3
DETECTABLE WARNINGS (SPECIAL)	SQ FT	118
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.20
GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	427
GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	106
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT. (SPECIAL)	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
SEEDING (COMPLETE)	SQ YD	21
SEETING (COMETETE)	30 10	21

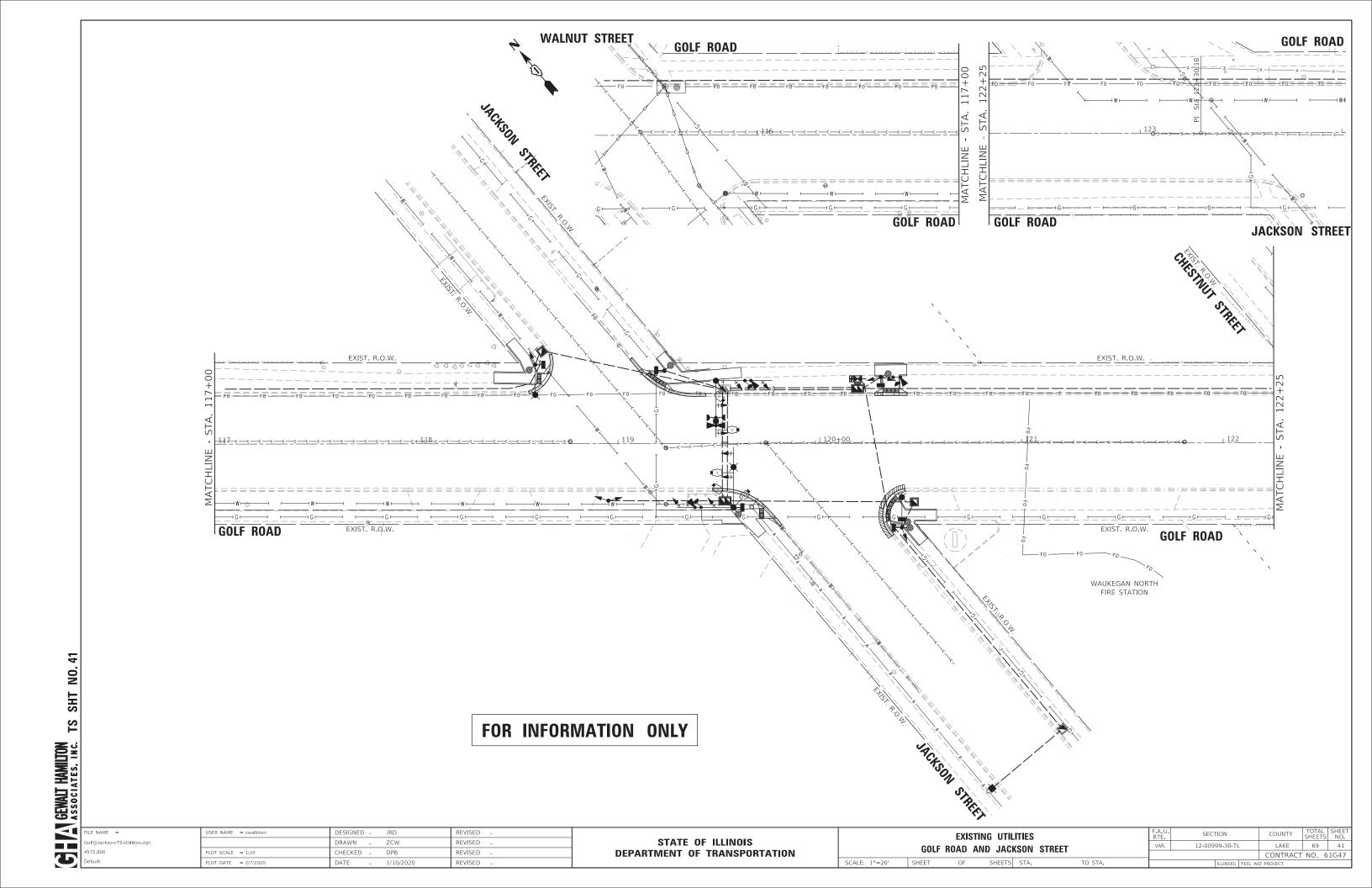
TS SHT NO.37

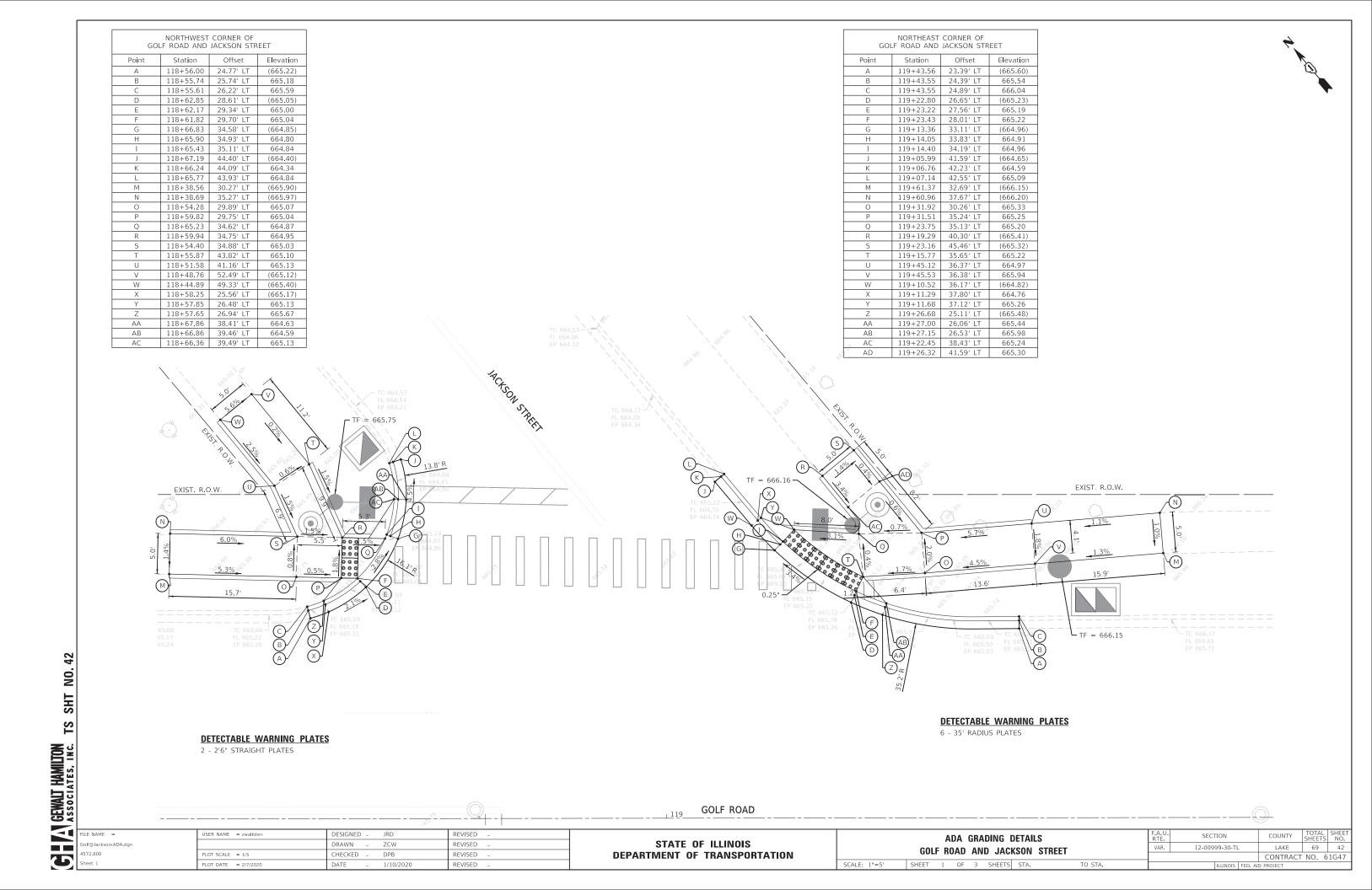
G V GEWALT HAMILTON ASSOCIATES, INC.

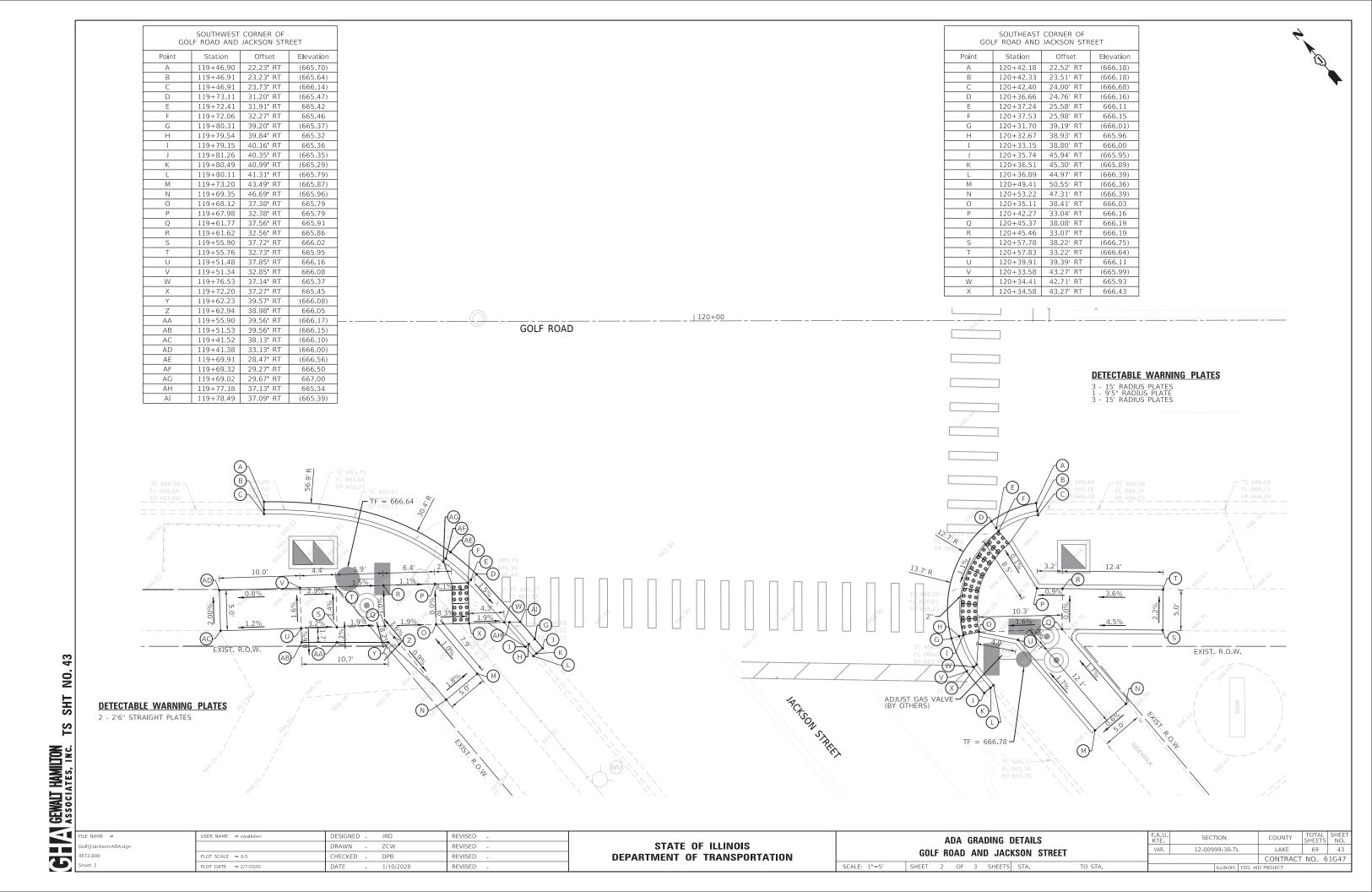










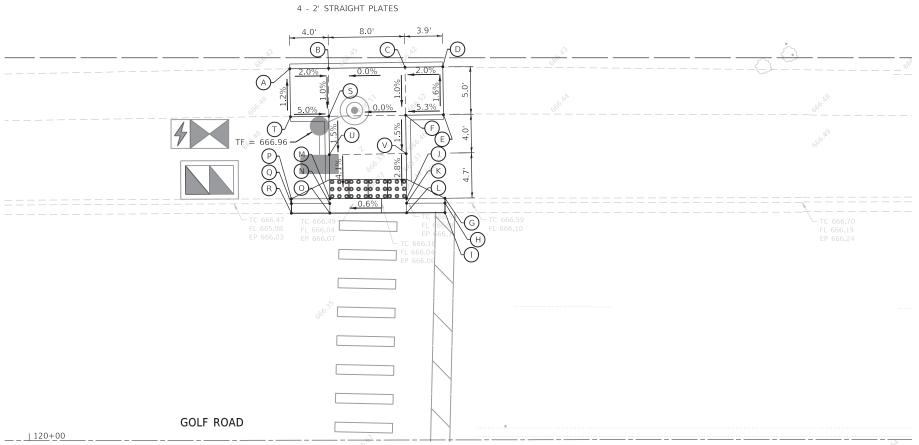


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FILE NAME = JSER NAME = zwallsten DESIGNED -JRD REVISED SECTION ADA GRADING DETAILS STATE OF ILLINOIS Golf@Jackson-ADA.don DRAWN ZCW REVISED 12-00999-30-TL GOLF ROAD AND JACKSON STREET 4572.800 CHECKED . DPB REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 2/7/2020 SHEET 3 OF 3 SHEETS STA. REVISED

SOUTHEAST CORNER OF GOLF ROAD AND JACKSON STREET Offset Elevation 120+27.21 38.69 LT (666.43) 666.37 120+31.25 38.74 LT 666.37 120+43.14 38.89 LT (666.42) (666.50) 120+43.20 | 33.89' LT 120+43.35 25.18' LT (666.57) (666.07) 120+43.35 (666.13) 120+43.35 | 23.68 LT 666.10 120+39.35 25.17' LT 120+39.36 23.67' LT (666.11) 120+31.35 | 25.15' LT 666.05 120+31.35 23.65 LT 120+27.35 25.14 LT (666.49) (665.99) 120+27.35 23.64' LT (666.05) 666.29 120+31.27 120+27 27 33 69' IT (666,49) 666.23 120+31.32 29.74' LT

DETECTABLE WARNING PLATES



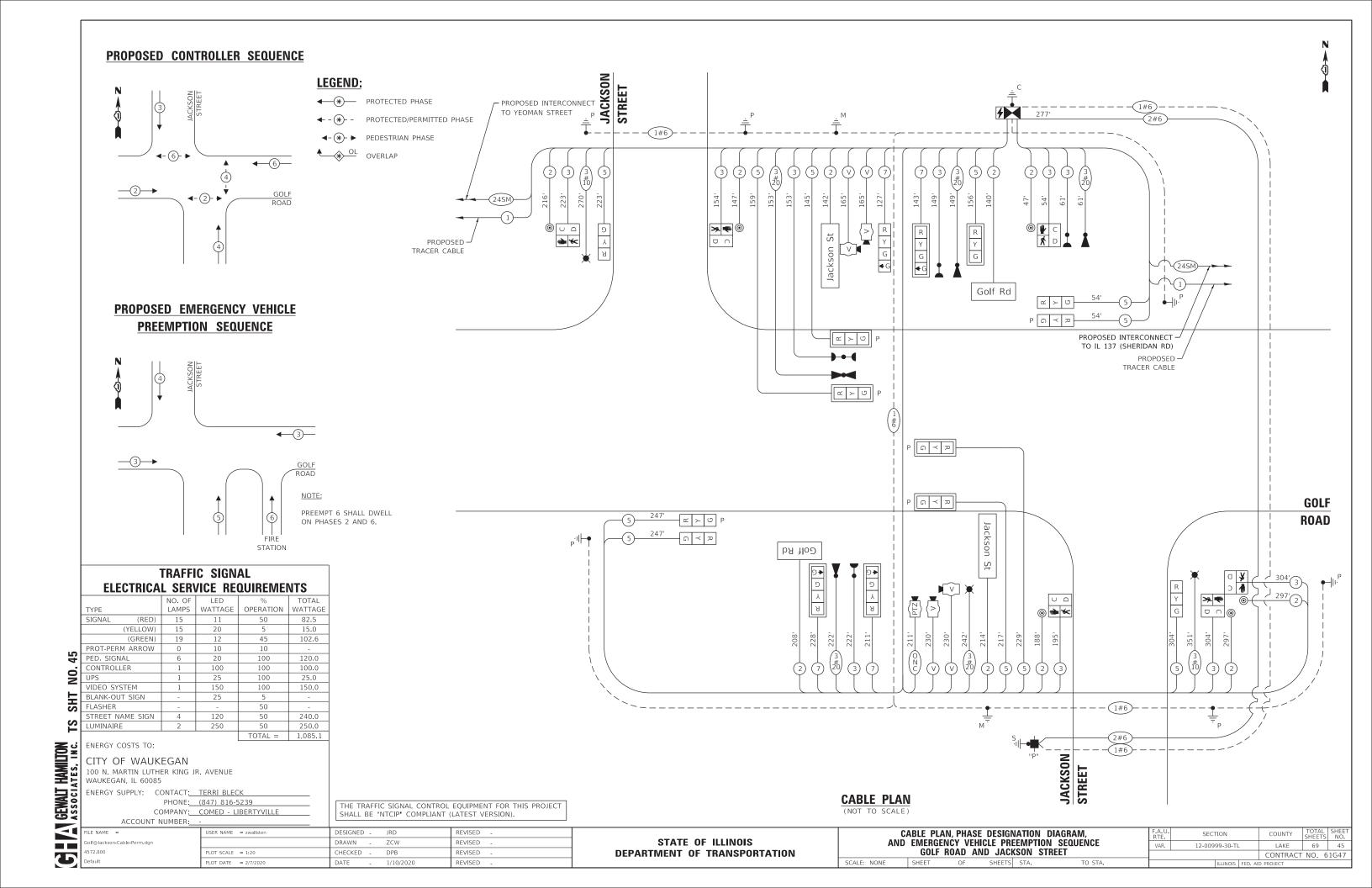


COUNTY

COUNTY SHEETS NO.

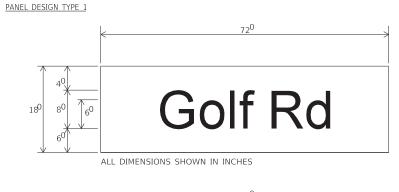
LAKE 69 44

CONTRACT NO. 61G47



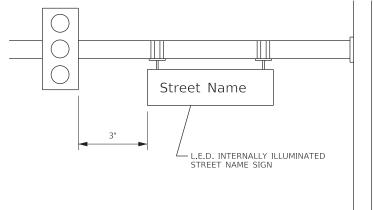
TS SHT NO. 46

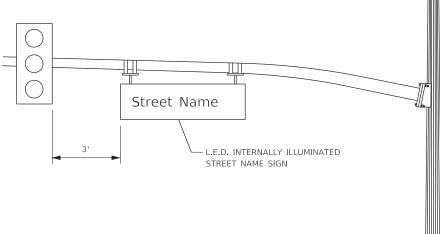
G V GEWALT HAMILTON ASSOCIATES, INC.



<u>9.0</u> sq. ft. each 2 SINGLE SIDED REQUIRED ____ DOUBLE SIDED REQUIRED DESIGN SERIES ____D__ HIGHWAY GOTHIC FONT







DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE

AVAILABLE ONLY IN 2 FOOT INCREMENTS.

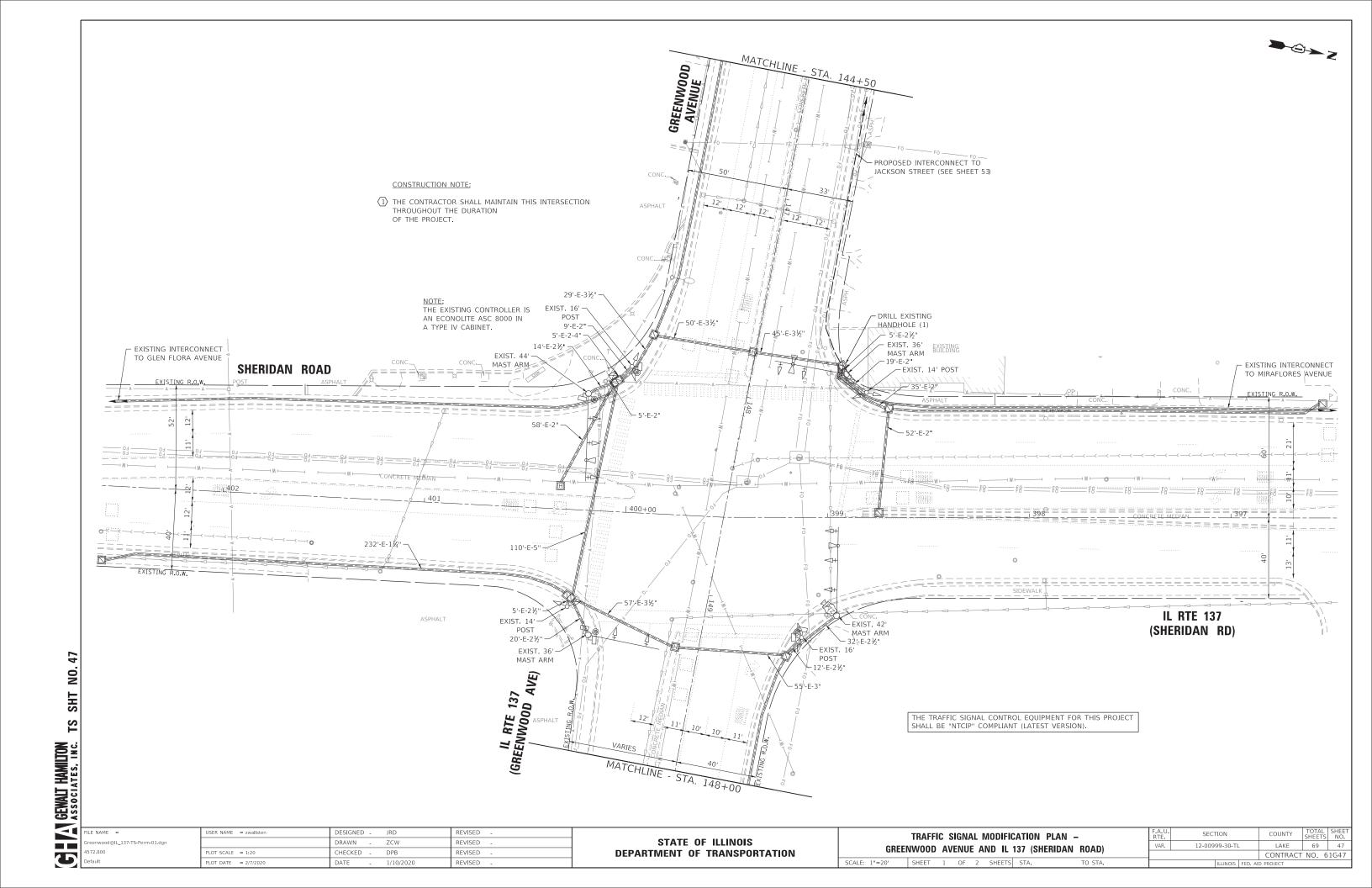
SCHEDULE OF QUANTITIES

TREE PRUNING. (3 TO 10 INCH DIAMETER) EARTH EXCAVATION CLI YO INCIDENTAL HOT-MIX ASPHALT SURFACING FORT LAND PROTICTIVE COAT SOF YO PROTICTIVE COAT FORT LAND PROTICTIVE COAT FORT LAND PROTICTIVE COAT FORT LAND PROTICTIVE CUBB AND GUTTER REMOVAL SOF YO SIDEMALK REMOVAL SOF YO SERVICE INSTALLATION - POLE MOUNTED UNDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. UNDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. UNDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. HORDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. UNDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. HORDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. HORDERGROUND COMOUNT, GALVANNIZED STEEL, 3" DIA. HORDERGROUND COMOUNT, GALVANNIZED STEEL, 2" DIA. HORDERGROUND COMOUNT, GALVANNIZED STEEL, 3" DIA. HORDERGROUND COMOUNT, GALVANNIZED STEEL, 4" DIA. HORDERGROUND COMOUNT, SIGNAL NO, 14 3C HORDER	ITEM DESCRIPTION	UNITS	TOTAL QTY.
INCIDENTAL HOT-MIX ASPHALT SURFACING PORTECTIVE COAT SQ PD 168 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH SQ FT 1,32 SIDEWALK REMOVAL COMEINATION CURB AND GUTTER REMOVAL SO FT 1,23 SIDEWALK REMOVAL COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT) FOOT 165 SERVICE INSTALLATION - POLE MOMINTED LIMOBERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. LIMOBERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. LIMOBERGROUND CONDUIT, GOV (XLP-TYPE USE) 3-1/C NO, 10 EACH 3 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO, 10 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO, 10 ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 7C ELE	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	· ·
PROTECTIVE COAT PORTLAND CENENT CONCRETE SIDEWALK 5 INCH SQFT 1.34 COMBINATION CURB AND GUTTER REMOVAL SQFT 1.25 COMBINATION CURB AND GUTTER REMOVAL SQFT 1.25 COMBINATION CONCRETE CURB AND GUTTER. TYPE 8-6.12 (ABUTTING EXISTING PAVEMENT) FOOT 165 SERVICE INSTALLATION - POLE MOUNTED UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. FOOT 221 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 461 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 461 BECETAIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 FOOT 862 LUMINARIRE, SCOILM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT EACH 3 LIGHT POLE, GALVANIZED STEEL, 4 "T. M.H., 15 FT. DAVIT ARM LIGHT POLE FOUNDATION, 24" DIAMETER LIGHT POLE FOUNDATION, 24" DIAMETER LIGHT POLE FOUNDATION, 24" DIAMETER LIECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 3C LIECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 5C LIECTRIC CABLE IN CONDUIT, SIGNAL NO, 1	EARTH EXCAVATION	CU YD	2
PORTLAND CEMENT CONCRETE SIDEWALK S INCH \$0, FT 1,36 COMBINATION CURB AND GUITTER REMOVAL FOOT 16 SIDEWALK REMOVAL \$0, FT 1,26 COMBINATION CONCRETE CURB AND GUITTER, TYPE B • 6,12 (ABUTTING EXISTING PAVEMENT) \$0, FT 1,25 SERVICE INSTALLATION - POLE MUNTED • 607 248 LUNDERGROUND CONDUIT, GALVANIZED STEEL, 2° DIA. FOOT 24 LUNDERGROUND CONDUIT, GALVANIZED STEEL, 3° DIA. FOOT 46 HANDHOLE EACH 1 DOBUBLE HANDHOLE EACH 3 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 FOOT 46 HANDHOLE EACH 3 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 FOOT 60 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H. 15 FT. DAVIT ARM EACH 3 LIGHT POLE, GRUNATICED STEEL, 40 FT. M.H. 15 FT. DAVIT ARM FOOT 1,8 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FEOT 1,8 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 1,8 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 1,8	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	2
COMPRIATION CURB AND GUTTER REMOVAL SOFT 1.25 SIDEWALK REMOVAL COMPRIATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT) EXEMPTED INSTALLATION - POLE MOUNTED UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. HOPE CONCRETE CURB AND GUTTER, 3" DIA. HOPE CONCRETE CURB AND GUTTER, 3" DIA. HOPE CONCRETE CURB AND GUTTER, 1" DIA. HOPE CONCRETE CURB AND GUTTER CURB AND GUTTER, 1" DIA. HOPE CONCRETE CURB AND GUTTER CURB AND			168
SIDEWALK REMOVAL			1,343
COMBINATION CONCRETE CURB AND GUTTER, TYPE 8-6.12 (ABUTTING EXISTING PAVEMENT) FOOT 5.5 ERVICE INSTALLATION - POLE MOUNTED			
SERVICE INSTALLATION - POLE MOUNTED UNDERGROUND COMDUIT, GALYMNIZED STEEL, 2" DIA. FOOT 246 UNDERGROUND COMDUIT, GALYMNIZED STEEL, 4" DIA. FOOT 607 LOUBTERGROUND COMDUIT, GALYMNIZED STEEL, 4" DIA. FOOT 461 HANDHOLE EACH 3 ELECTRIC CABLE IN CONDUIT, SOOV (XLP.TYPE USE) 3-1/C NO. 10 LOUST HANDHOLE ELECTRIC CABLE IN CONDUIT, SOOV (XLP.TYPE USE) 3-1/C NO. 10 LOTH TOLE, GALVANIZED STEEL, 4" FI. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE CONDATION, 24" DIAMETER FOOT 1,88 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 1 C FOOT 12 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 20 FT. (SPECIAL) CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT 30 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 FOOT 30 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 FOOT 30 OFTICALLY PROCRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 FOOT 30 FOOT			
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT 121 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 122 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 122 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 123 COURTE HANDHOLE EACH 3 COURTE HANDHOLE ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 EACH 33 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 EACH 32 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 22 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SUBMAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SUBMAL NO			
UNIDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. FOOT 121 UNIDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 643 HANDHOLE EACH 3 DUBLE HANDHOLE EACH 3 ELECTRIC CABLE IN CONDUIT, 500V (XLP.TYPE USE) 3-1/C NO. 10 FOOT 696 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT EACH 3 LIGHT POLE, CALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE, CALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE FOUNDATION, 24" DIAMETER FOOT 22 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C FOOT 1.81 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 1.81 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 652 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 863 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 863 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 795 STEEL COMBINATION MST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 80 230 FT. (SPECIAL) FOOT 1.81 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 795 STEEL COMBINATION MST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 60 230 FT. (SPECIAL) FOOT 1.81 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.81 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 795 STEEL COMBINATION, TYPE C FOOT 1.82 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.82 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.82 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.82 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.83 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.82 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.82 ELECTRIC CABLE IN CONDUIT, SEQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1.82 ELECTRIC CABLE IN CONDUCTOR, NO. 6 1C FO			248
MANDHOLE		FOOT	121
DOUBLE HANDHOLE ELECTRIC CABLE IN CONDUIT, 600V (XLP.TYPE USE) 3.1/C NO. 10 FOOT 863 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT EACH 3 LUGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 2 LIGHT POLE CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 FC ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 FC ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 C ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C ELECTRIC CABLE IN CONDUI	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	461
ELECTRIC CABLE IN CONDUIT, 500V (XLPTYPE USE) 3-1/C NO. 10	HANDHOLE	EACH	3
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT EACH 3 LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. DAVIT ARM EACH 3 LIGHT POLE FOUNDATION, 24" DIAMETER FOOT 1.25 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 1.25 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 1.81 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 1.87 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C FOOT 2.77 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C FOOT 2.77 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 28 FT. SEPCIAL) CONCRETE FOUNDATION, TYPE A FOOT 1.2 CONCRETE FOUNDATION, TYPE A FOOT 4.0 CONCRETE FOUNDATION, TYPE B 36-INCH DIAMETER FOOT 4.0 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 2 DOPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 4	DOUBLE HANDHOLE		
LIGHT POLE, GALVANIZED STEEL, 40 FT, M.H., 15 FT, DAVIT ARM			
LIGHT POLE FOUNDATION, 24" DIAMETER ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 1,87 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C FOOT 277 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 30 FT. (SPECIAL) CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT 14 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 3 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 6 FRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 7 EACH 6 EMPOSE ASSISTING HAMPHOLE EACH 1 REMOVE EXISTING HAMPHOLE EACH 1 REMOVE EXISTING HAMPHOLE EACH 1 TRAFFIC SIGNAL BOOTH STREET MAME SIGN EACH 1 TRAFFIC SIGNAL POST, 18 FOOT, (SPECIAL) EACH 1 TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL) EACH 1 TRAFFIC SIGNAL POST, 18 FOOT, (SPECIAL) EACH 1 TRAFFIC SIGNAL POST, 18 FOOT, (SPECIAL) EACH 1 TRAFFIC CONTROL AND PROTEC			
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ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 1,83 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 188 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 863 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C FOOT 277 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C FOOT 795 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 20 30 FT. (SPECIAL) EACH 2 CONCRETE FOUNDATION, TYPE A FOOT 12 CONCRETE FOUNDATION, TYPE G FOOT 4 CONCRETE FOUNDATION, TYPE G FOOT 30 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 3 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 2 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 4 REPOSTRIAN SIGNAL HEAD			
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STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 20 FT. (SPECIAL) CONCRETE FOUNDATION, TYPE A FOOT 12 CONCRETE FOUNDATION, TYPE C FOOT 4 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED FOOT 4 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED FOOT 4 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED FOOT 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED FOOT 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED FOOT 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED FOOT 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, A-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, A-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER FOOT 5 SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER FOOT 5 SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED FOOT 5	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	277
CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 3 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 3 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 LIGHT DETECTOR EACH 6 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFF			795
CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE C FOOT 4 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 2 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 2 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 6 REAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 1		EACH	2
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SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 2 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED EACH 3 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 6 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 8 LIGHT DETECTOR EACH 1 PEDESTRIAN PUSH-BUTTON EACH 6 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 1 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 9 EMEMOVE EXISTING HANDHOLE EACH 9 EMEMOVE EXISTING HANDHOLE EACH 9 EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C FOOT 583 LED INTERNALLY ILLUMINATED STREET NAME SIGN PAVEMENT MARKING REMOVAL - WATER BLASTING OUTDOOR RATED NETWORK CABLE REMOVE CONTROLLED VIDEO SYSTEM LAYER II (DATALINK) SWITCH REACH 1 TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL) TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL) TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL) TRAFFIC SIGNAL POST, 17 FOOT, (SPECIAL) DETECTABLE WARNINGS (SPECIAL) EACH 1 DETECTABLE WARNINGS (SPECIAL) TRAFFIC CONTROLLED VIDEO SYSTEM EACH 1 DETECTABLE WARNINGS (SPECIAL) EACH	CONCRETE FOUNDATION, TYPE C	FOOT	4
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SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 4 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH EAC			
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ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C FOOT 211 TEMPORARY TRAFFIC SIGNAL TIMING EACH 1 VIDEO DETECTION SYSTEM COMPLETE INTERSECTION EACH 1			211
TEMPORARY TRAFFIC SIGNAL TIMING EACH 1 VIDEO DETECTION SYSTEM COMPLETE INTERSECTION EACH 1			211
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION EACH 1			
SEEDING (COMPLETE) SQ YD 28	VIDEO DETECTION SYSTEM COMPLETE INTERSECTION		1
	SEEDING (COMPLETE)	SQ YD	28

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS

USER NAME = zwallsten	DESIGNED -	JRD	REVISED -
	DRAWN -	ZCW	REVISED -
PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -
PLOT DATE = 2/7/2020	DATE -	1/10/2020	REVISED -

SCALE: NONE





JSER NAME = zwallsten DESIGNED -JRD REVISED DRAWN ZCW REVISED LOT SCALE = 1:20 CHECKED . DPB REVISED PLOT DATE = 2/7/2020 REVISED

OIS SPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN -GREENWOOD AVENUE AND IL 137 (SHERIDAN ROAD) SHEET 2 OF 2 SHEETS STA.

COUNTY TOTAL SHEET NO.

LAKE 69 48

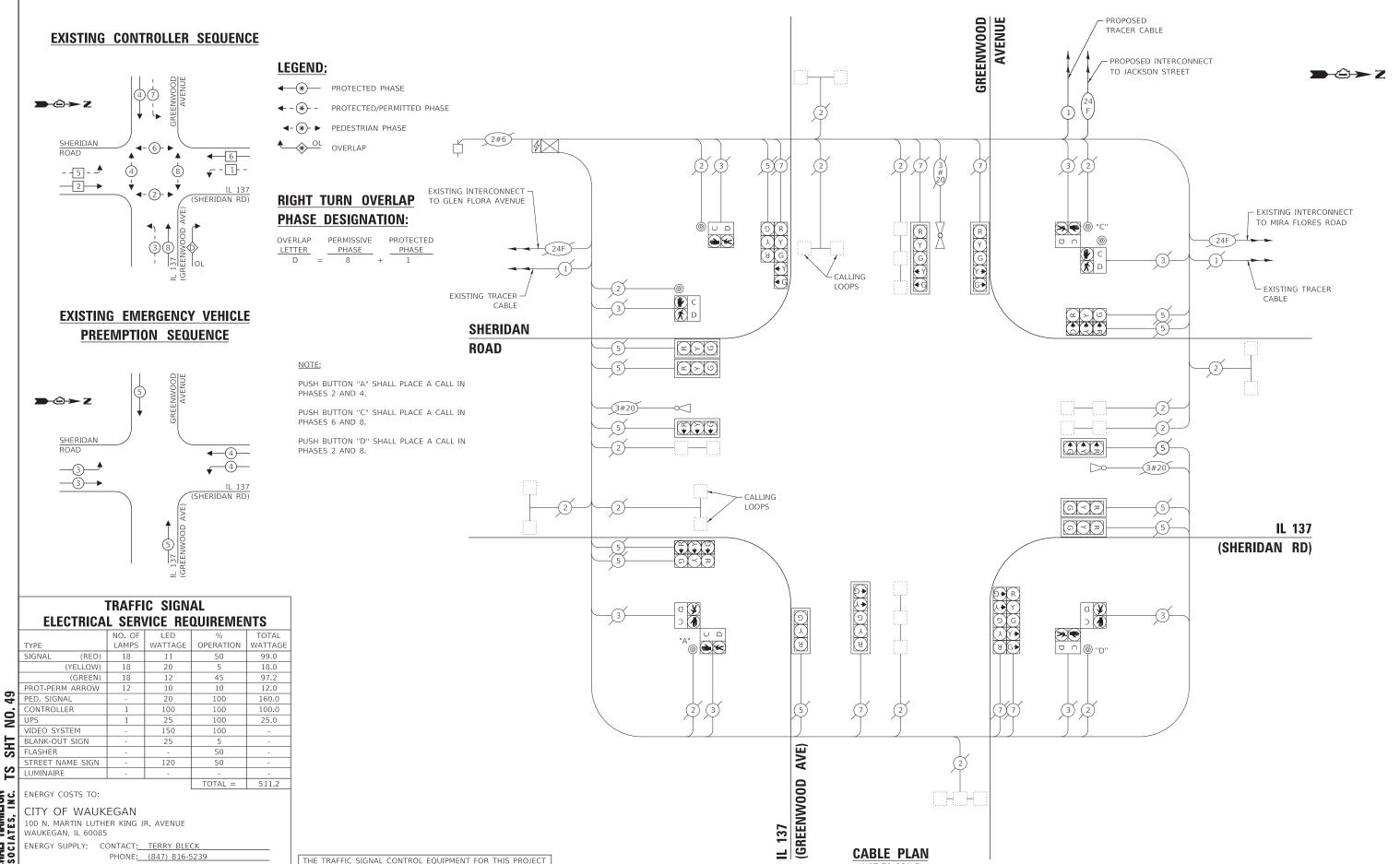
CONTRACT NO. 61G47 SECTION 12-00999-30-TL

MATCHLINE - STA. 148+00 IL RTE 137 (GREENWOOD AVE) 247 -E-1¼" EXISTING BUILDING

GREENWOOD AVENUE PROPOSED INTERCONNECT TO
JACKSON STREET (SEE SHEET 53)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT (LATEST VERSION).

STATE OF	ILLINO
DEPARTMENT OF	TRANSF



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CABLE PLAN

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

GREENWOOD AVENUE AND IL 137 (SHERIDAN RD)

SHEETS STA.

TS 15060

LAKE 69 49

CONTRACT NO. 61G47

COUNTY

SECTION

12-00999-30-TL

GEWALT 1

G

100 N. MARTIN LUTHER KING JR. AVENUE

ACCOUNT NUMBER:

ENERGY SUPPLY: CONTACT: TERRY BLECK

PHONE: (847) 816-5239

COMPANY: COMED - LIBERTYVILLE

JSER NAME = zwallster

PLOT DATE = 2/7/2020

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

REVISED

REVISED

REVISED

REVISED

SHALL BE "NTCIP" COMPLIANT (LATEST VERSION)

DESIGNED -

DRAWN

DATE

JRD

ZCW

DPB

1/10/2020

WAUKEGAN, IL 60085

72.800

CENAL HAMILTON ASSOCIATES, INC. TS SHT NO. 50

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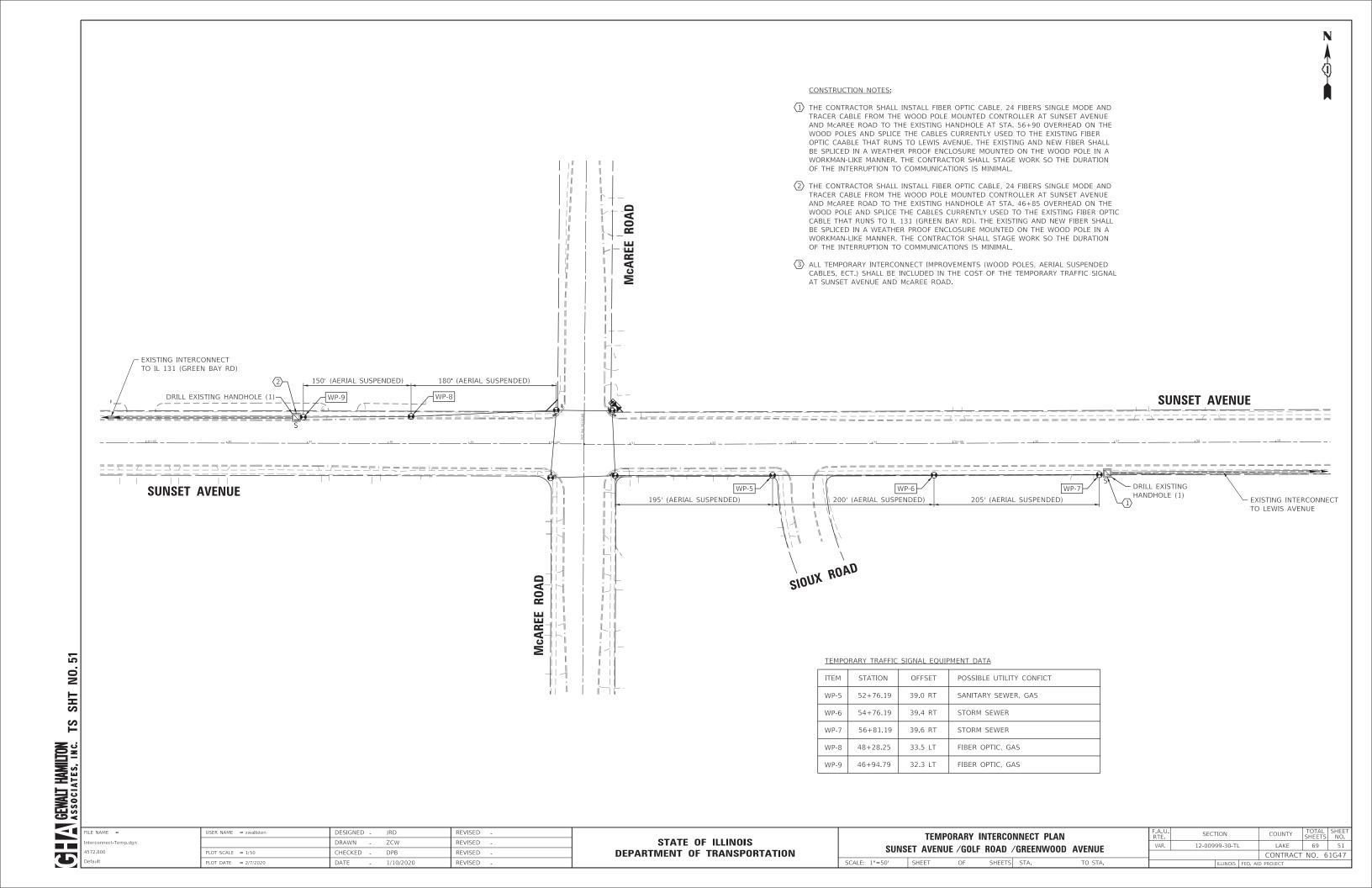
REVISED

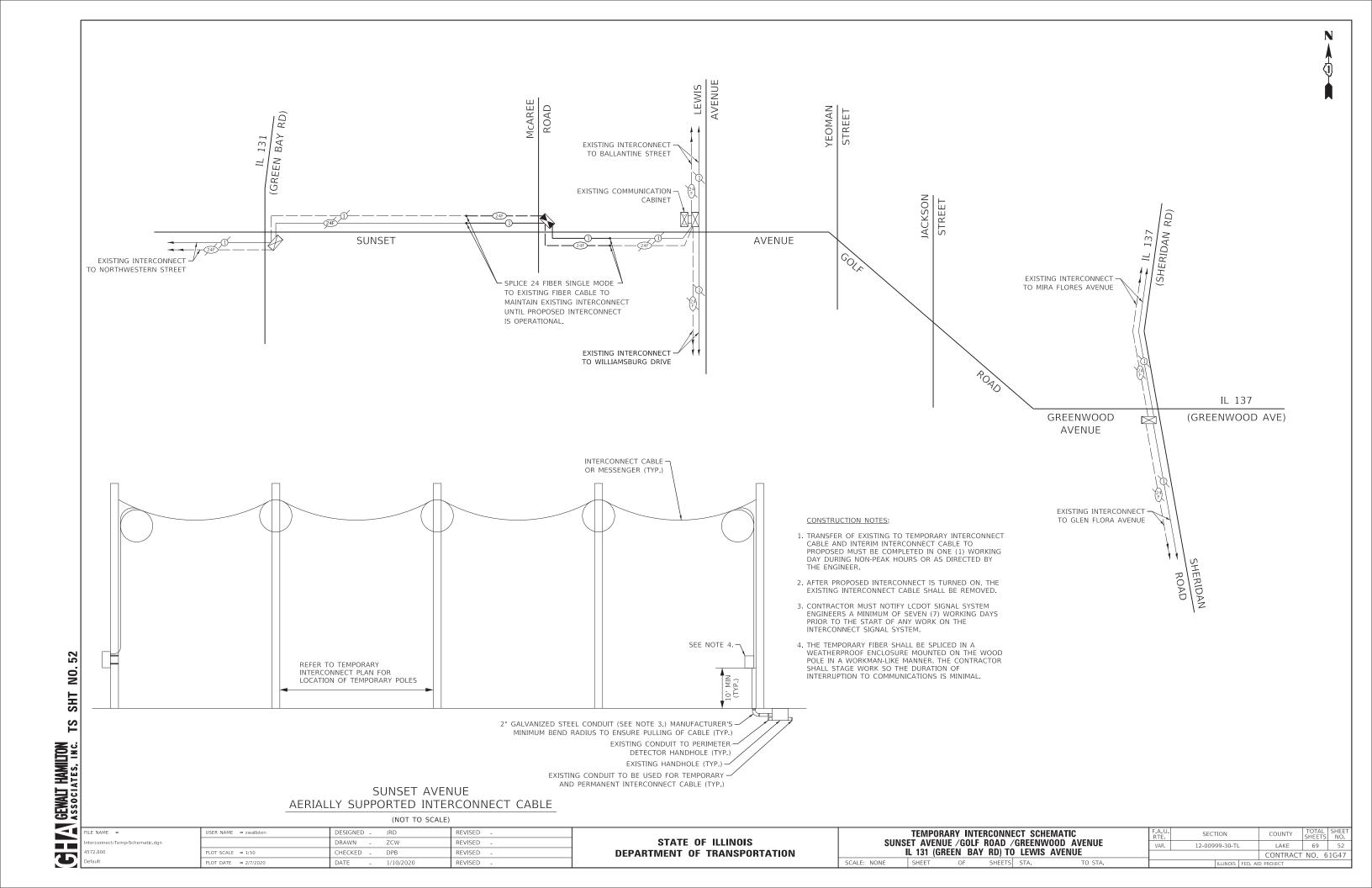
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

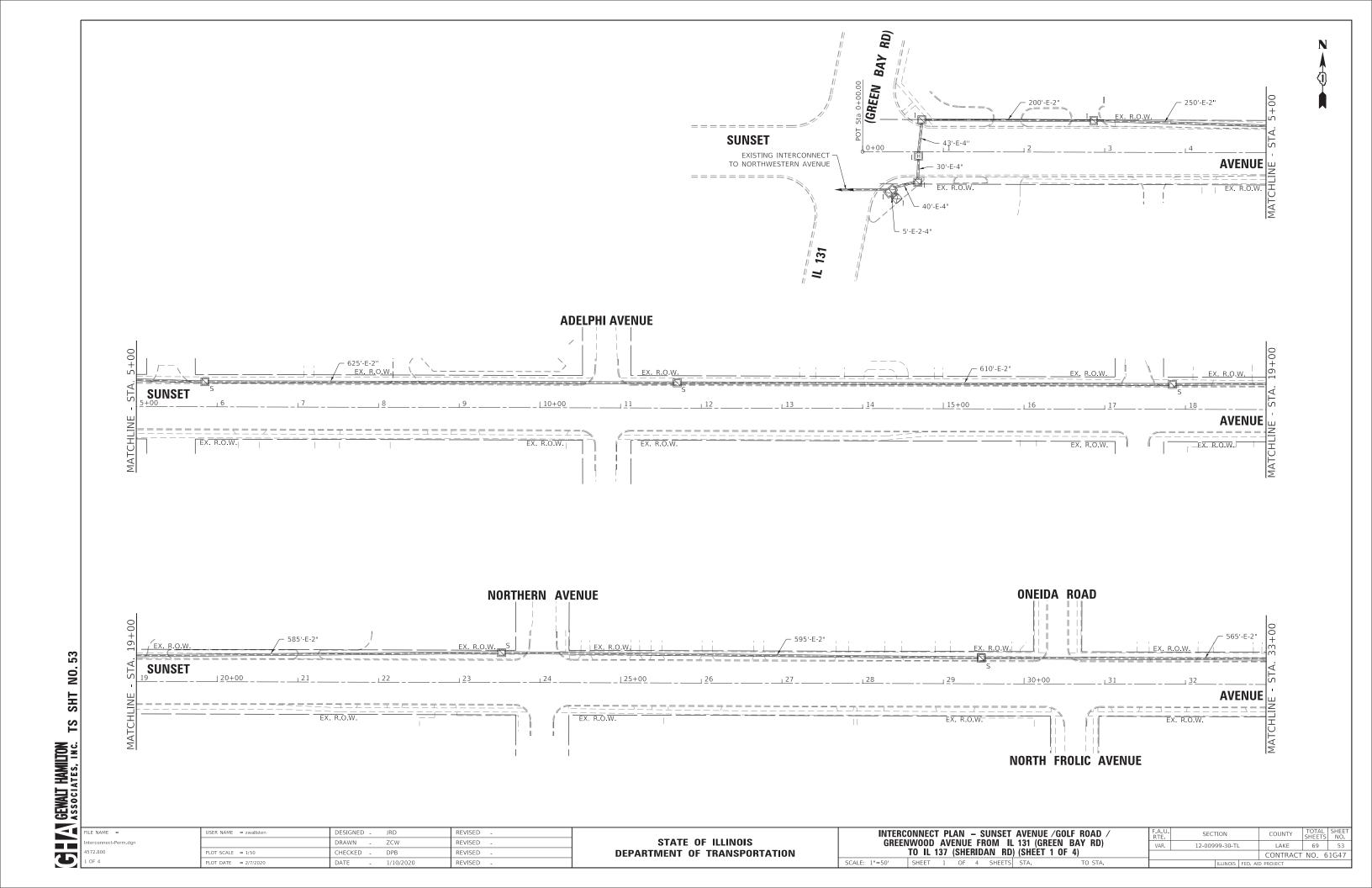
			SCHEDUL				F.A.U. RTE.		CTION 999-30-TL		COUNTY	TOTAL SHEETS 69	SHEET NO.
	GREEI	MW00D	AVENUE	AND IL	137 (SHERID	OAN ROAD)	VAR.	12-00	999-30-TL		CONTRACT		50 1G47
l	SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS I	FED. AIC	PROJECT		

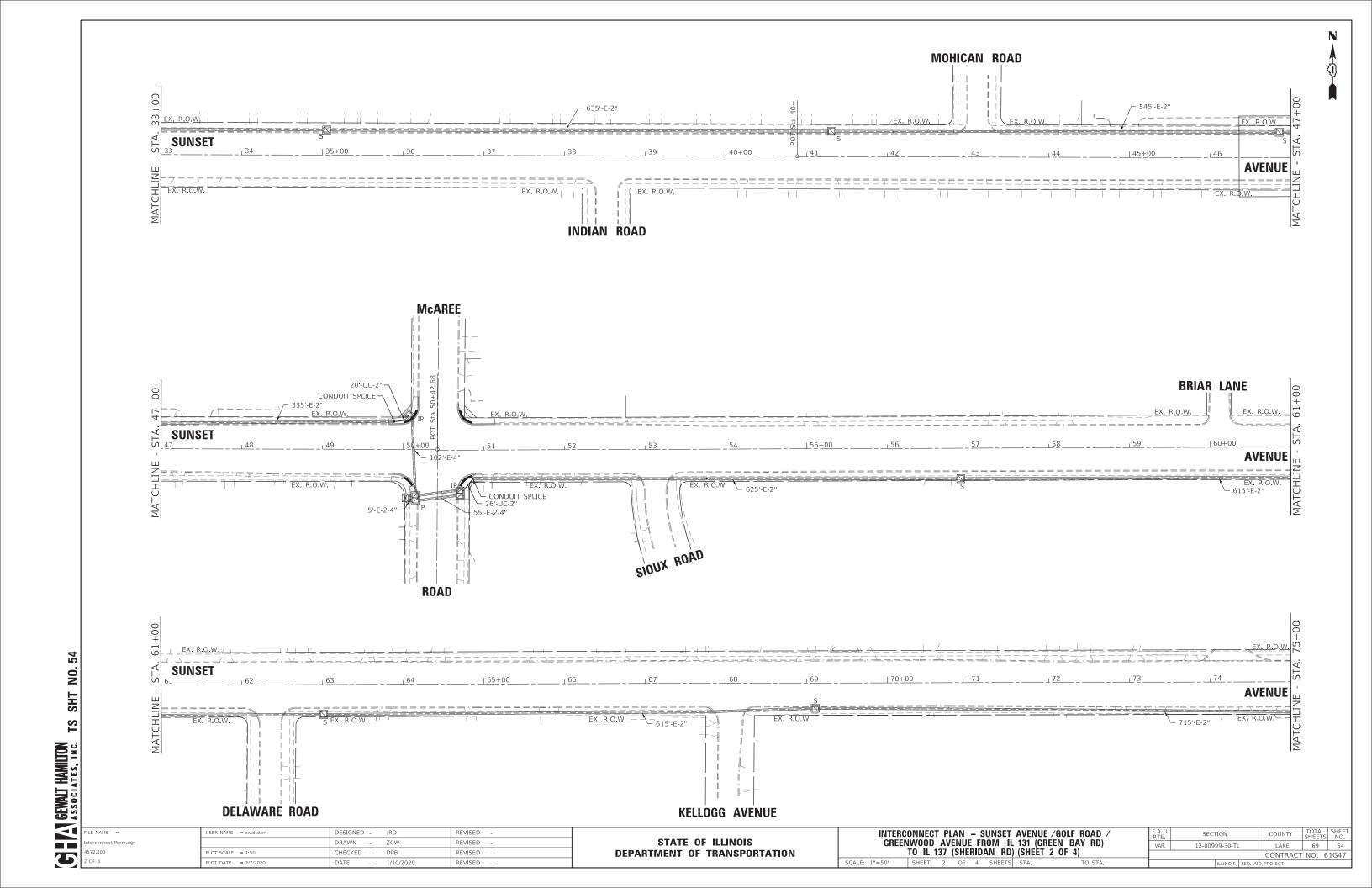
SCHEDULE OF QUANTITIES

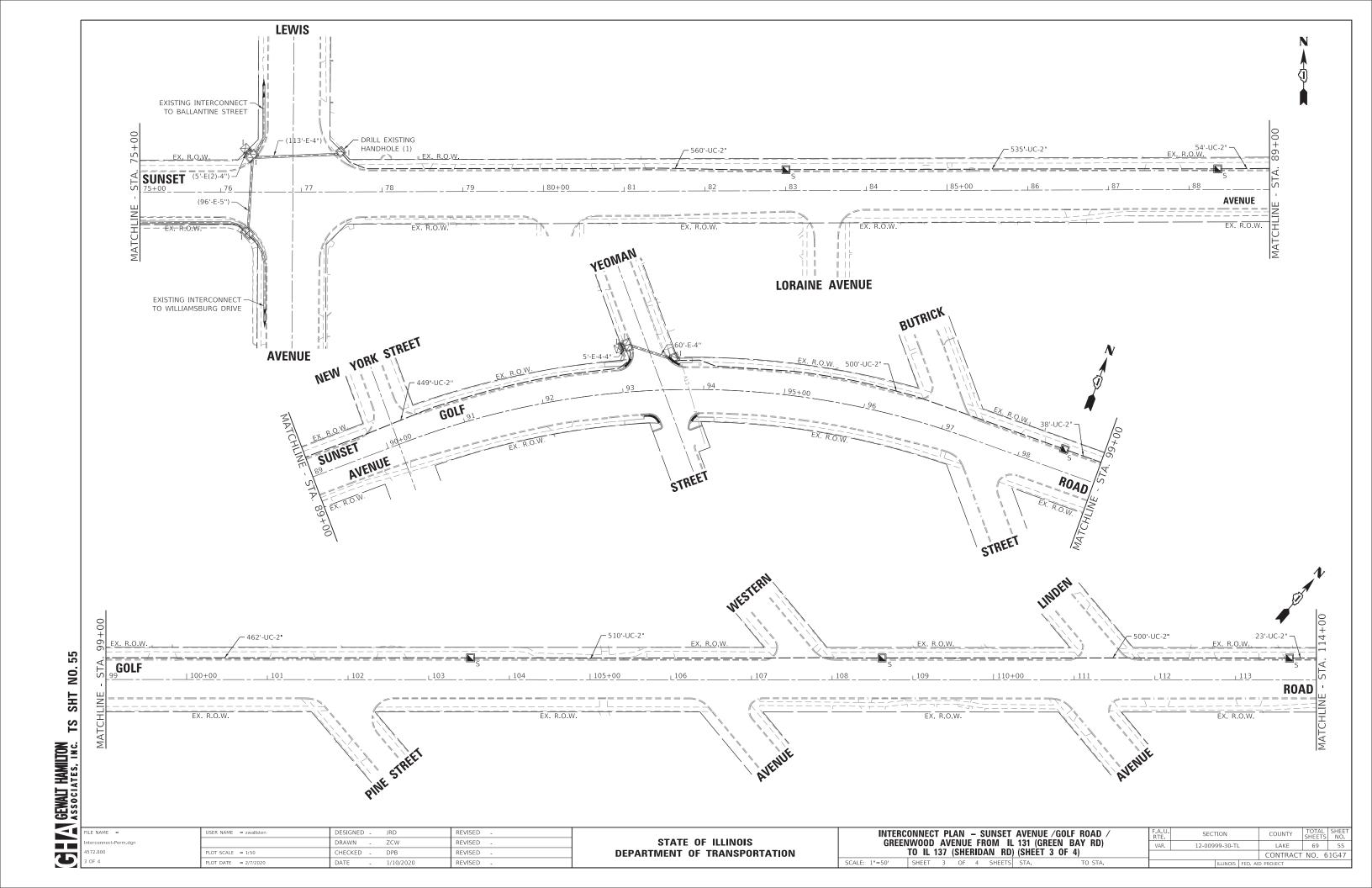
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1

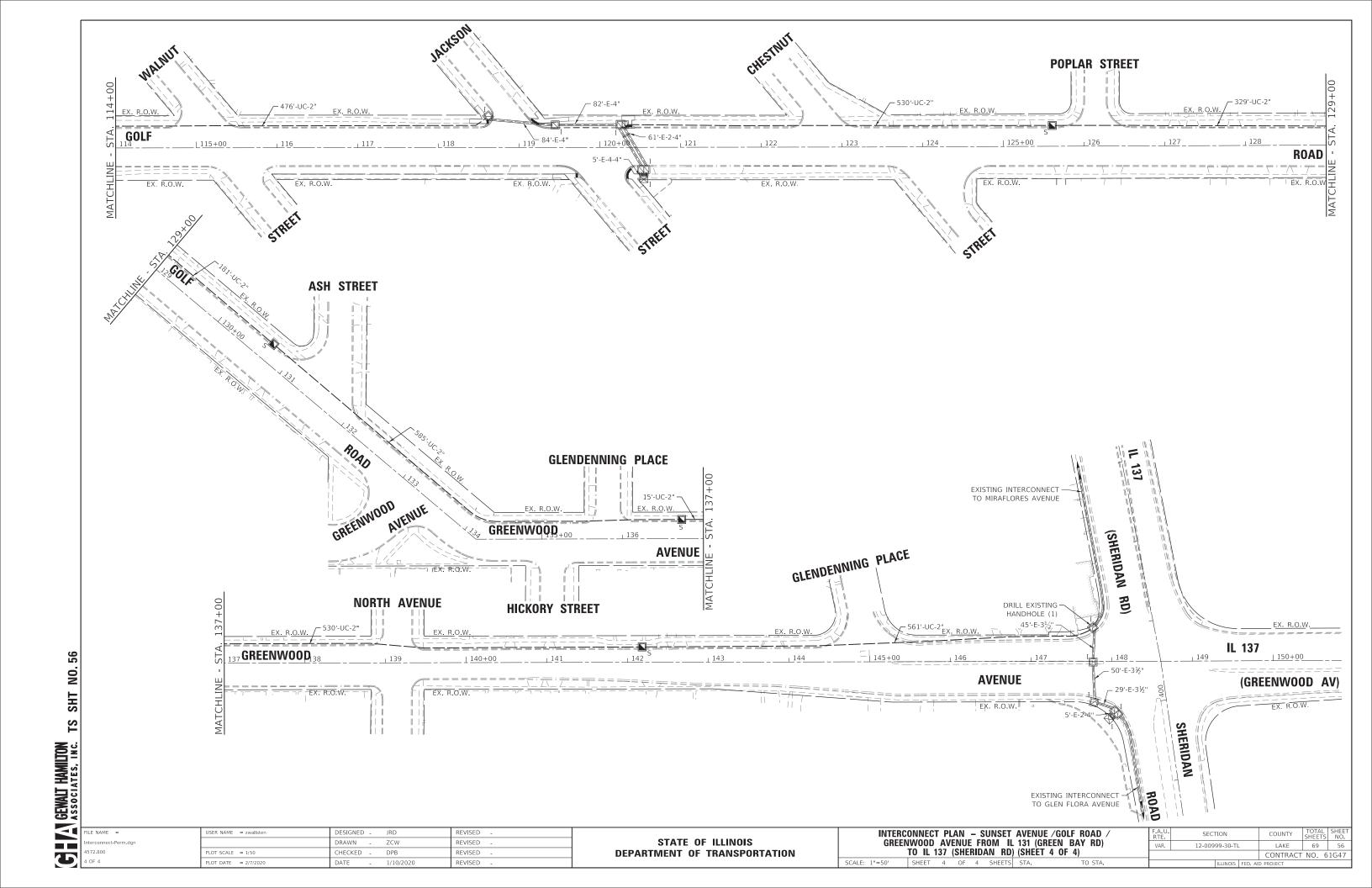


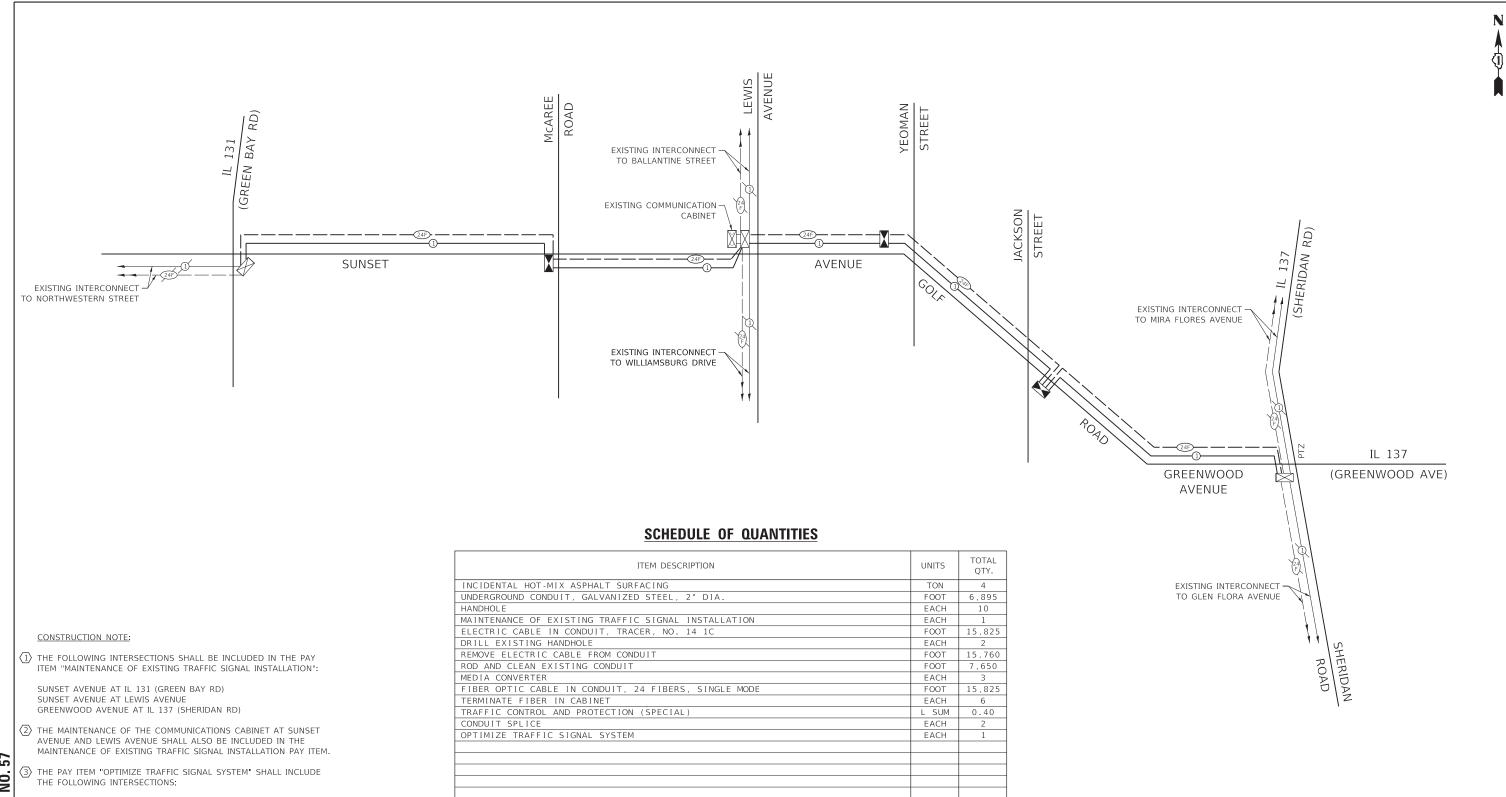












SUNSET AVENUE AT IL 131 (GREEN BAY RD) SUNSET AVENUE AT MCAREE ROAD SUNSET AVENUE AT LEWIS AVENUE GOLF ROAD AT YEOMAN STREET GOLF ROAD AT JACKSON STREET GREENWOOD AVENUE AT IL 137 (SHERIDAN RD)

G IV GEWALT HAMILTON ASSOCIATES, INC.

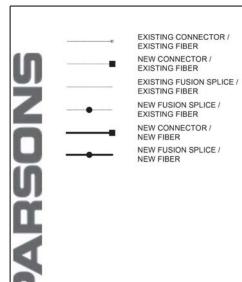
4 AFTER THE PROPOSED INTERCONNECT HAS BEEN TURNED ON, THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLES BETWEEN IL 131 (GREEN BAY RD) AND LEWIS AVENUE. ALL WORK REQUIRED TO REMOVE THE CABLES TO THE SATISFACTION OF THE LCDOT ENGINEER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "REMOVE ELECTRIC CABLE FROM

FILE NAME =	USER NAME = zwallsten	DESIGNED -	JRD	REVISED -
Interconnect-Schematic.dgn		DRAWN -	ZCW	REVISED -
4572.800	PLOT SCALE = 1:50	CHECKED -	DPB	REVISED -
Default	PLOT DATE = 2/7/2020	DATE -	1/10/2020	REVISED -

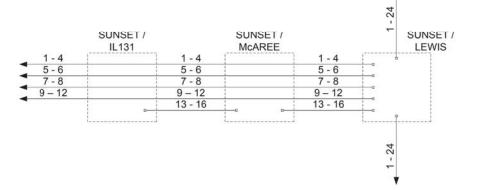
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

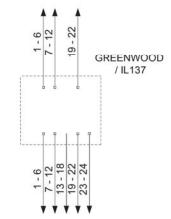
SCALE: 1

					SCHEDULE OF QUANTITIES	F.A.U. RTE.	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
		-,	,		NWOOD AVENUE	VAR.	12-009	99-30-TL		LAKE	69	57
IL 13	31 (GREEN	BAY	KD) IO IL	137	(SHERIDAN RD)					CONTRAC	T NO. 6	1G47
NONE	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AII	PROJECT		



EXISTING





GREENWOOD

/ IL137

TEMP

AERIAL FIBER SUNSET / SUNSET / SUNSET / IL131 McAREE **LEWIS**

SUNSET /

SUNSET /

LEWIS

19 - 22

SUNSET /

FINAL

FIBER OPTIC TERMINATION /SPLICING QUANTITIES (BY INTERSECTION /LOCATION)

INTERSECTION / LOCATION	INCL	UDED	BID	ITEM
INTERSECTION / EDGATION	Т	S	Т	S
SUNSET AVENUE AT IL 131 (GREEN BAY RD)	4	12	0	0
SUNSET AVENUE AT MCAREE ROAD	8	12	0	0
SUNSET AVENUE AT LEWIS AVENUE	40	0	0	0
GOLF ROAD AT YEOMAN STREET	12	12	0	0
GOLF ROAD AT JACKSON STREET	12	12	0	0
GREENWOOD AVENUE AT IL 137 (SHERIDAN RD)	8	16	6	0
TOTALS	84	64	6	0

- T = TERMINATE FIBER IN CABINET
- S = SPLICE FIBER IN CABINET

l	FILE NAME =	USER NAME = zwallsten	DESIGNED - JRD	REVISED -
ì	IDOT-StdDetails.dgn		DRAWN - ZCW	REVISED -
i	4572.800	PLOT SCALE = 1:1	CHECKED - DPB	REVISED -
ì	FIBER SPLICING DIAGRAM	PLOT DATE = 2/7/2020	DATE - 1/10/2020	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUNSET /

	FIBER	SPLICING D	DIAGRAM			F.A.U. RTE.	SECTION
SUNSET AVE - FR	OM II 131	(GREEN RA	V RD) TO	II 137 /SH	FRIDAN RD	VAR.	12-00999-30-TL
GONGEL AVE - III	OW IL 131	(GILLIA DY	1 110, 10	IL 137 (011	LIIIDAIN IID	′	
SCALE: NONE SE	HEET OF	SHEETS	STA	TO ST	ΓΑ		TILLINOIS FED

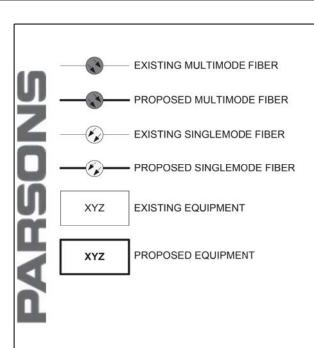
GOLF /

LAKE 69 58 CONTRACT NO. 61G47

19 - 22

NO. 58 SHT

G I V GEWALT HAMILTON ASSOCIATES, INC.

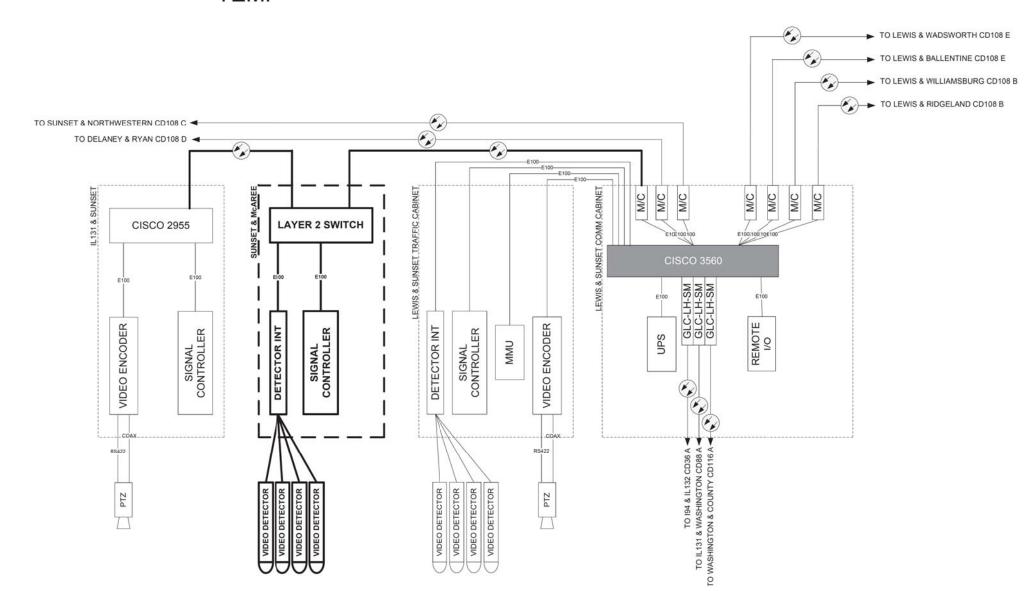


NO.

SHT

TS

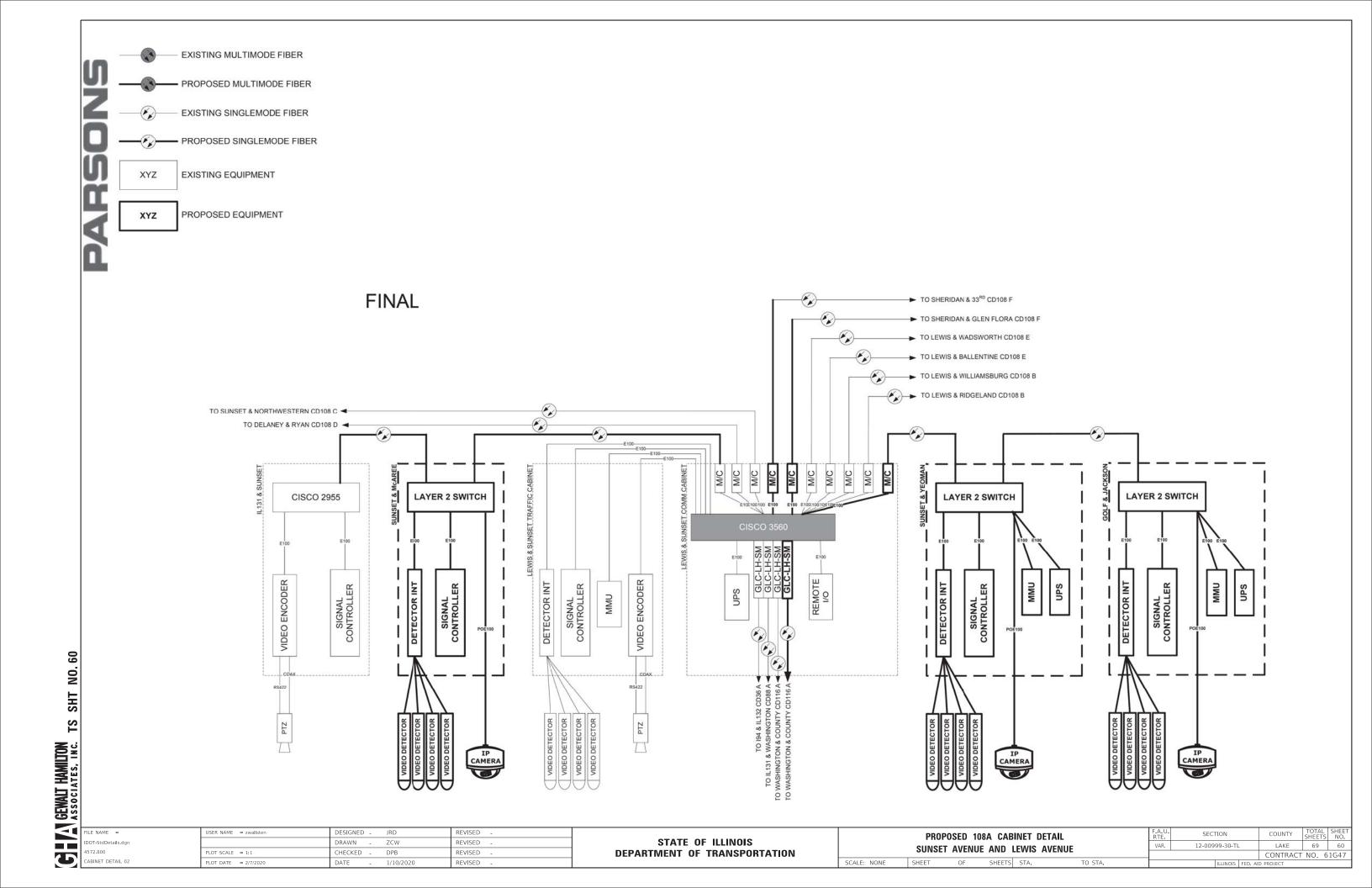
TEMP

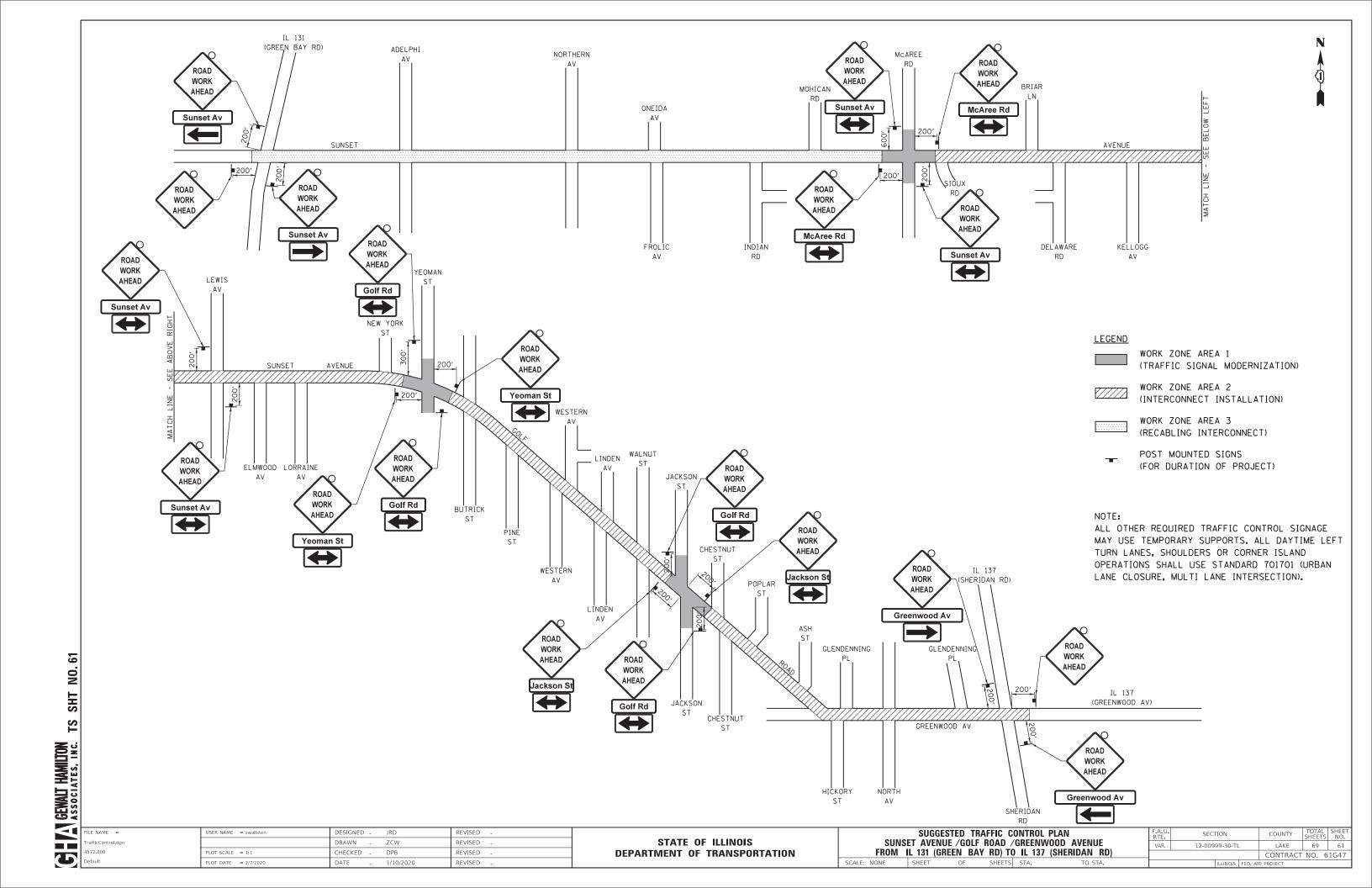


G I I GEWALT HAMILTON ASSOCIATES, INC. ILE NAME = JSER NAME = zwallsten DESIGNED -JRD REVISED OT-StdDetails.dor DRAWN ZCW REVISED 72.800 LOT SCALE = 1:1 CHECKED DPB REVISED ABINET DETAIL 01 PLOT DATE = 2/7/2020 DATE REVISED 1/10/2020

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE





6" (152.4) THREADED %" T. X 4" Dia. (15.87 T. X 101.6 Dia.)

<u>N</u>

SHT

TS

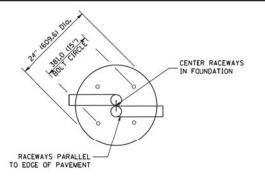
GEWALT HAMILTON ASSOCIATES, INC.

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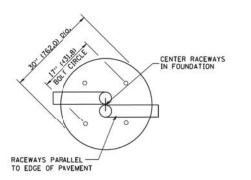
G

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

COLL CONDITIONS	DESIGN DEPTH "	PTH "D" OF FOUNDATION			
SOIL CONDITIONS	SINGLE ARM POLE	"OF FOUNDATION TWIN ARM POLE 15'-0" (4.57 m) 10'-9" (3.23 m) 8'-0" (2.44 m) 10'-0" (3.05 m) 9'-0" (2.74 m)			
SOFT CLAY Ou = 0.375 TON/SO. FT.	13'-0" (3.96 m)				
MEDIUM CLAY Ou = 0.75 TON/SO.FT	9'-6" (2.09 m)	0.0000000000000000000000000000000000000			
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-0'' (2.13 m)	57.000			
LOOSE SAND Ø = 34°	9'-0'' (2.74 m)	15/7/03/70			
MEDIUM SAND Ø = 37.5°	8'-3'' (2.52 m)	10.347.547.64			
DENSE SAND Ø = 40°	7'-9'' (2.36 m)	NO 80350 SOC 100			



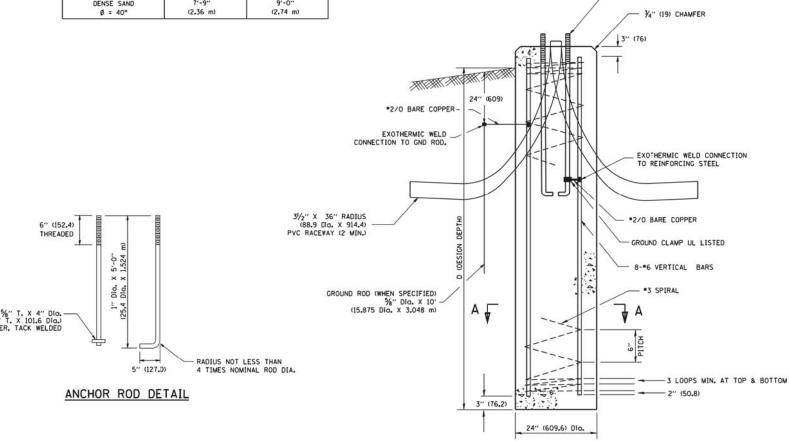
TOP VIEW



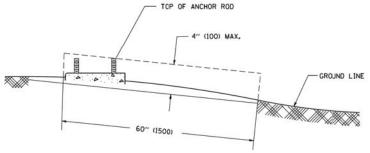
TOP VIEW

4-1" Dig. X 5'-0"

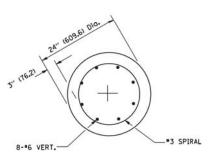
(4-25.4 Dia. X 1.524 m)



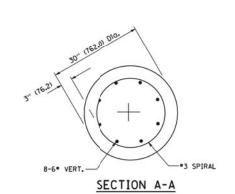




FOUNDATION EXTENSION DETAIL



SECTION A-A



NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS. EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE. THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP
- 6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2¾" (69,9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY
 COUPLINGS ARE SPECIFIED. THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

JSER NAME = zwallster DESIGNED 04-22-02 ILE NAME = REVISED OT-StdDetails.dg DRAWN REVISED 72,800 HECKED REVISED PLOT DATE = 2/7/202 DATE REVISED

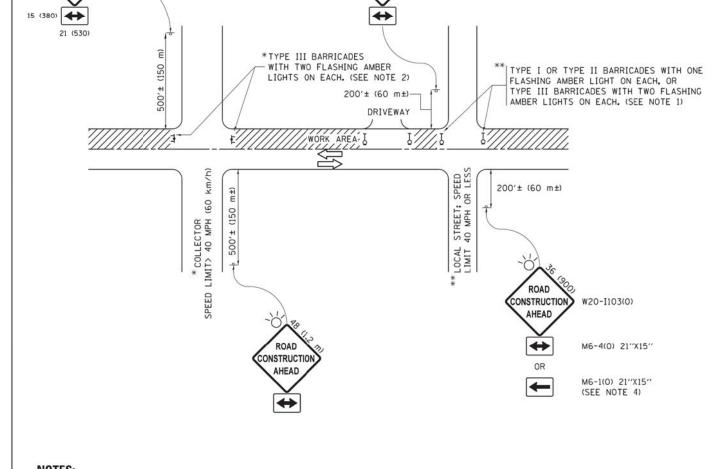
DEPART

	LIGHT POLE FOUNDATION		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				VAR.	12-00999-30-TL	LAKE	69	62
0 (12.15	' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE				BE-301	CONTRACT	NO. 6	1G47
	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	JULINOIS LEED, AID PROJECT				

OTATE OF HUMOIO		LIGHT P	OLE FOUN	DATION		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STATE OF ILLINOIS	40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE				VAR.	12-00999-30-TL	LAKE	69	62	
TMENT OF TRANSPORTATION	40 (12.1	40 (12.192 III) 10 47 VZ (14.476 III) M.A. 13 (301 IIIIII) BOLT CINCLE			T.	BE-301	CONTRACT	NO. 6	1G47	
	SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. AID	PROJECT		



72.800



CONSTRUCTION

AHEAD

NOTES:

CONSTRUCTIO

AHEAD

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - O) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - O) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

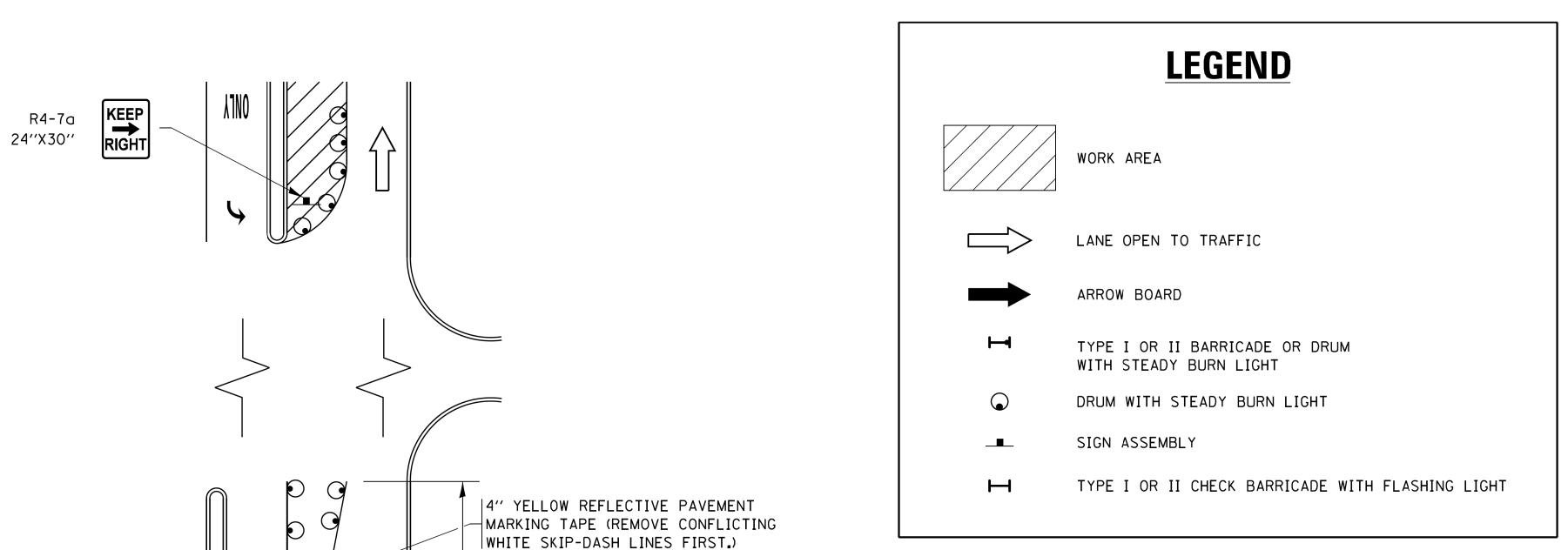
All dimensions are in inches (millimeters) unless otherwise shown.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET 1 OF 1 SHEETS STA. TO S

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



NOTES:

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

CONFLICTING | PAVEMENT MARKING REMOVAL (TYP.)

6" WHITE REFLECTIVE PAVEMENT MARKING TAPE

-SEE DETAIL "A"

|4" YELLOW REFLECTIVE PAVEMENT MARKING TAPE REMOVE CONFLICTING WHITE

SKIP-DASH LINES FIRST.)

FIGURE 2

MEDIAN

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 \times 15 (530 \times 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.

GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = USER NAME = zwallsten DOT-StdDetails.dgn PLOT SCALE = 1:1

SEE DETAIL "A"

DESIGNED - T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09 DRAWN - ta\C#QsH40USEH141Hg07-95 REVISED - A. SCHUETZE 07-01-13 CHECKED - A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16 - T. RAMMACHER 01-06-00 REVISED PLOT DATE = 4/3/2020

- ARROW BOARD

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHEET 1 OF 1 SHEETS STA. SCALE: NONE TO STA.

F.A.U. RTE. TOTAL SHEET SHEETS NO. SECTION 69 12-00999-30-TL LAKE TC-14 CONTRACT NO. 61G47 ILLINOIS FED. AID PROJECT

unless otherwise shown.

All dimensions are in inches (millimeters)

M6-2L 21 × 15 (530 × 380) | STABILIZE SIGN SUPPORT WITH

 $24 \times 24 (600 \times 600)$ LANE

R3-I100L

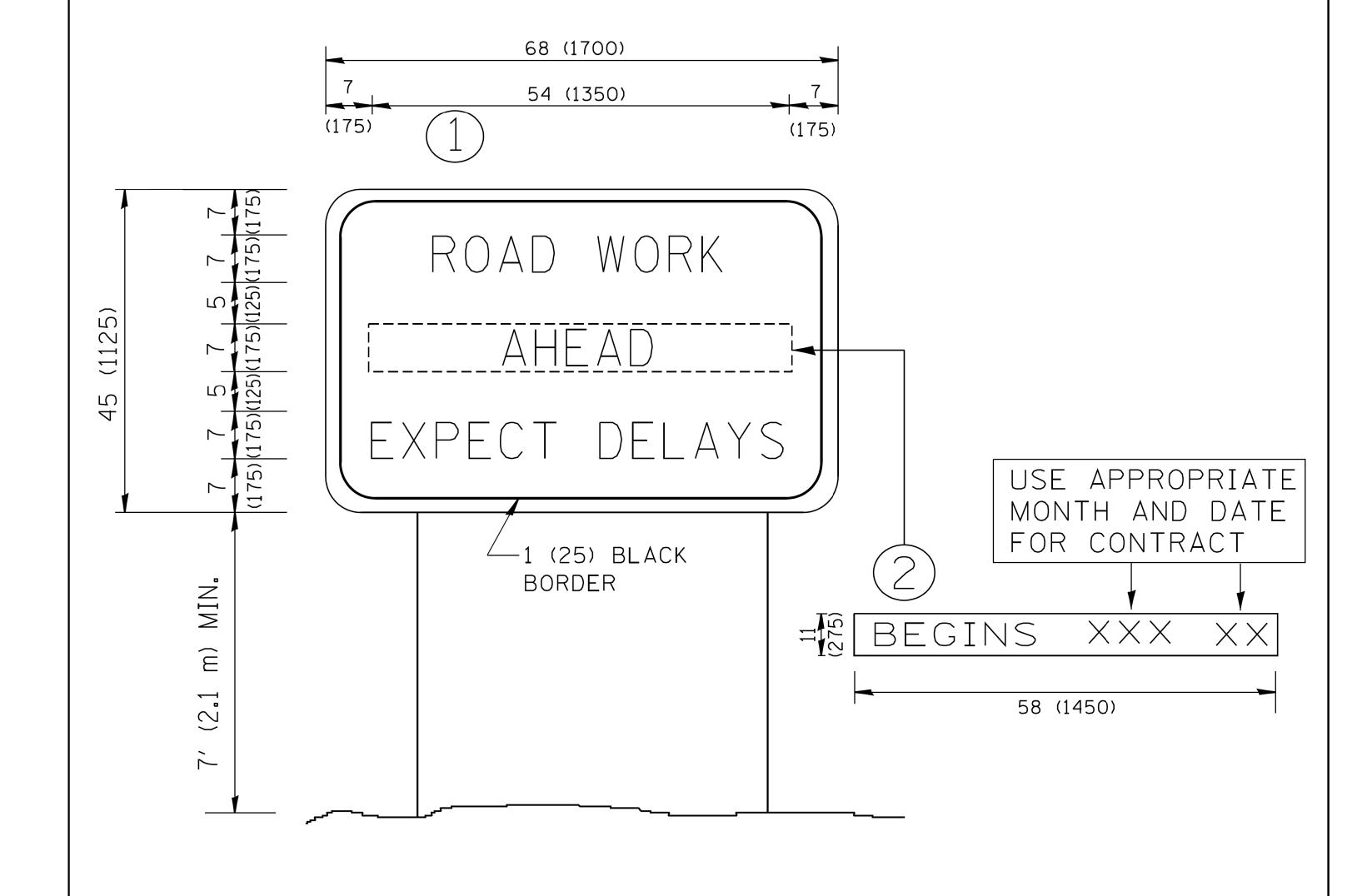
SANDBAGS AS NECESSARY

DETAIL A

FIGURE 1



IDOT-StdDetails.dgn



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SHEET NO. 1

SCALE: NONE

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

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

USER NAME = zwallsten	DESIGNED -	REVISED	- R. MIRS 09-15-97
	DRAWN -	REVISED	- R. MIRS 12-11-97
PLOT SCALE = 1:1	CHECKED -	REVISED	- T. RAMMACHER 02-02-99
PLOT DATE = $4/3/2020$	DATE -	REVISED	- C. JUCIUS 01-31-07

STATI	E 01	F ILLINOIS
EPARTMENT	OF	TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN			RTE.	SECTION	COUNTY	SHEETS	NC	
			VAR.	12-00999-30-TL	LAKE	69	65	
				TC-22	CONTRACT	NO. 6	1G4	
OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

FILE NAME = DOT-StdDetails.dgn 1572.800 .CDOT DETAIL 01
 USER NAME
 = zwallsten
 DESIGNED
 JRD
 REVISED

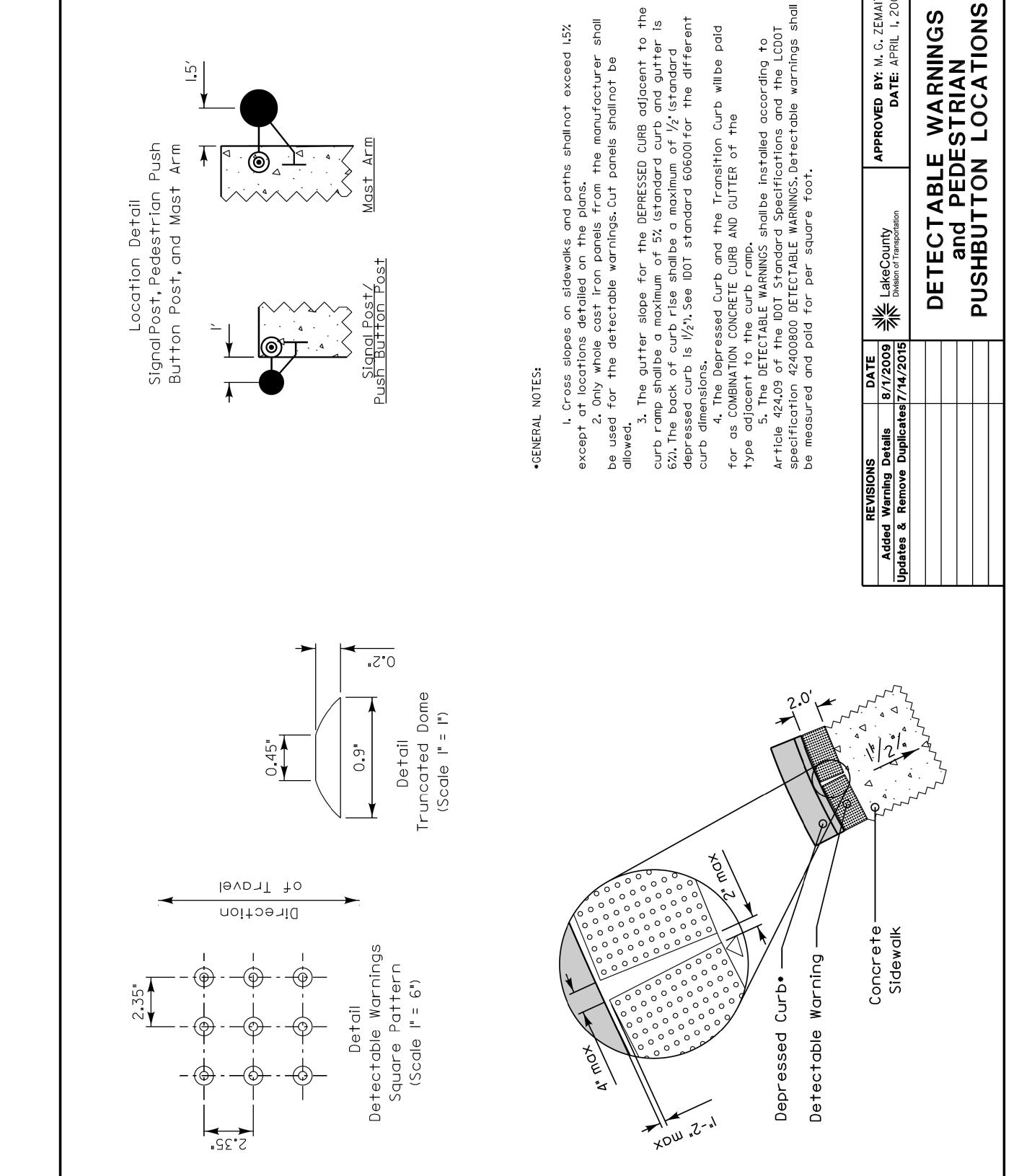
 DRAWN
 ZCW
 REVISED

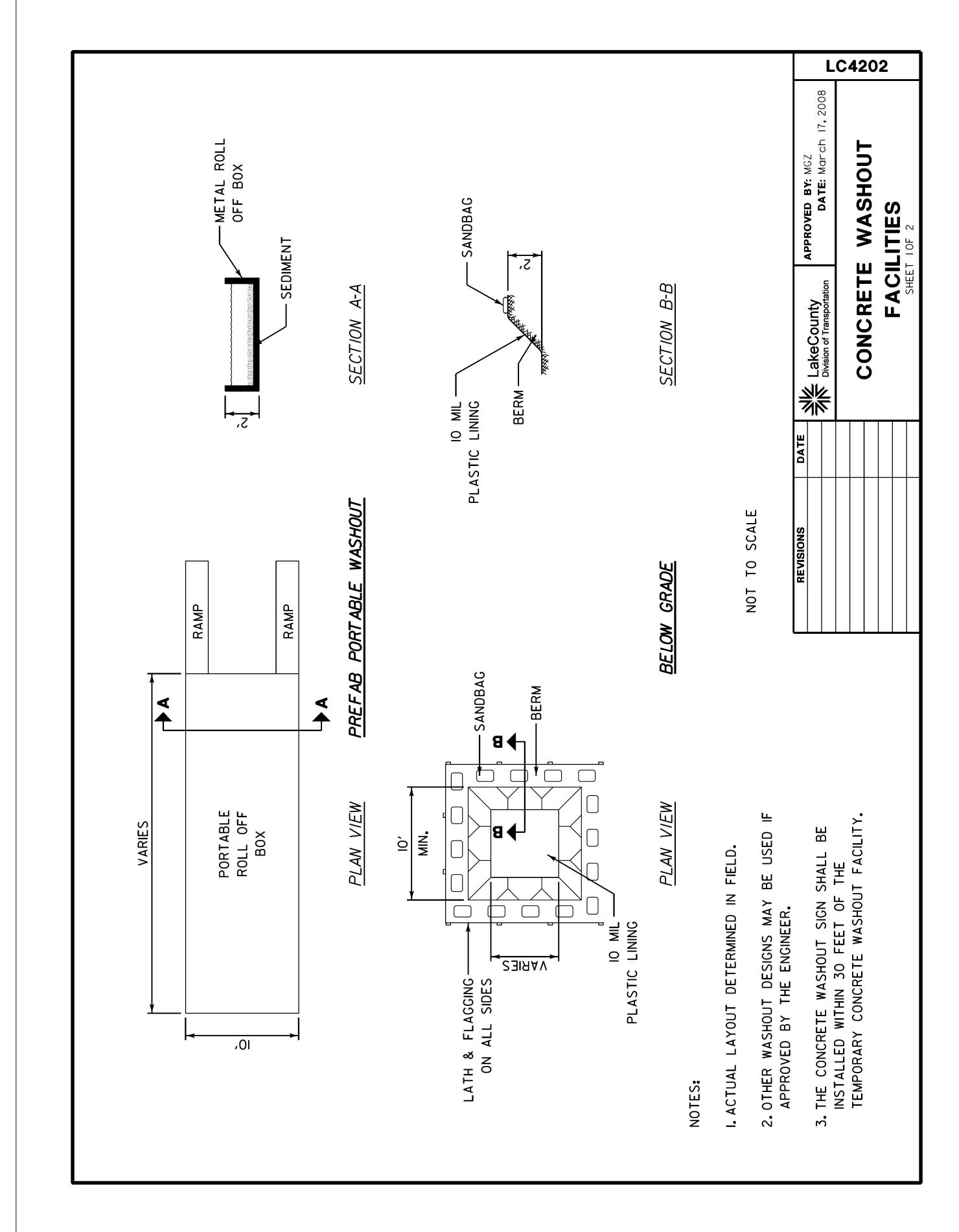
 PLOT SCALE
 = 1:1
 CHECKED
 DPB
 REVISED

 PLOT DATE
 = 4/3/2020
 DATE
 1/10/2020
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LC4201





LAKE COUNTY DIVISION OF TRANSPORTATION

STANDARDS

SHEET 1 OF 4 SHEETS STA.

SCALE: NONE

F.A.U. RTE.

TO STA.

SECTION

12-00999-30-TL

ILLINOIS FED. AID PROJECT

TOTAL SHEET NO.

69

CONTRACT NO. 61G47

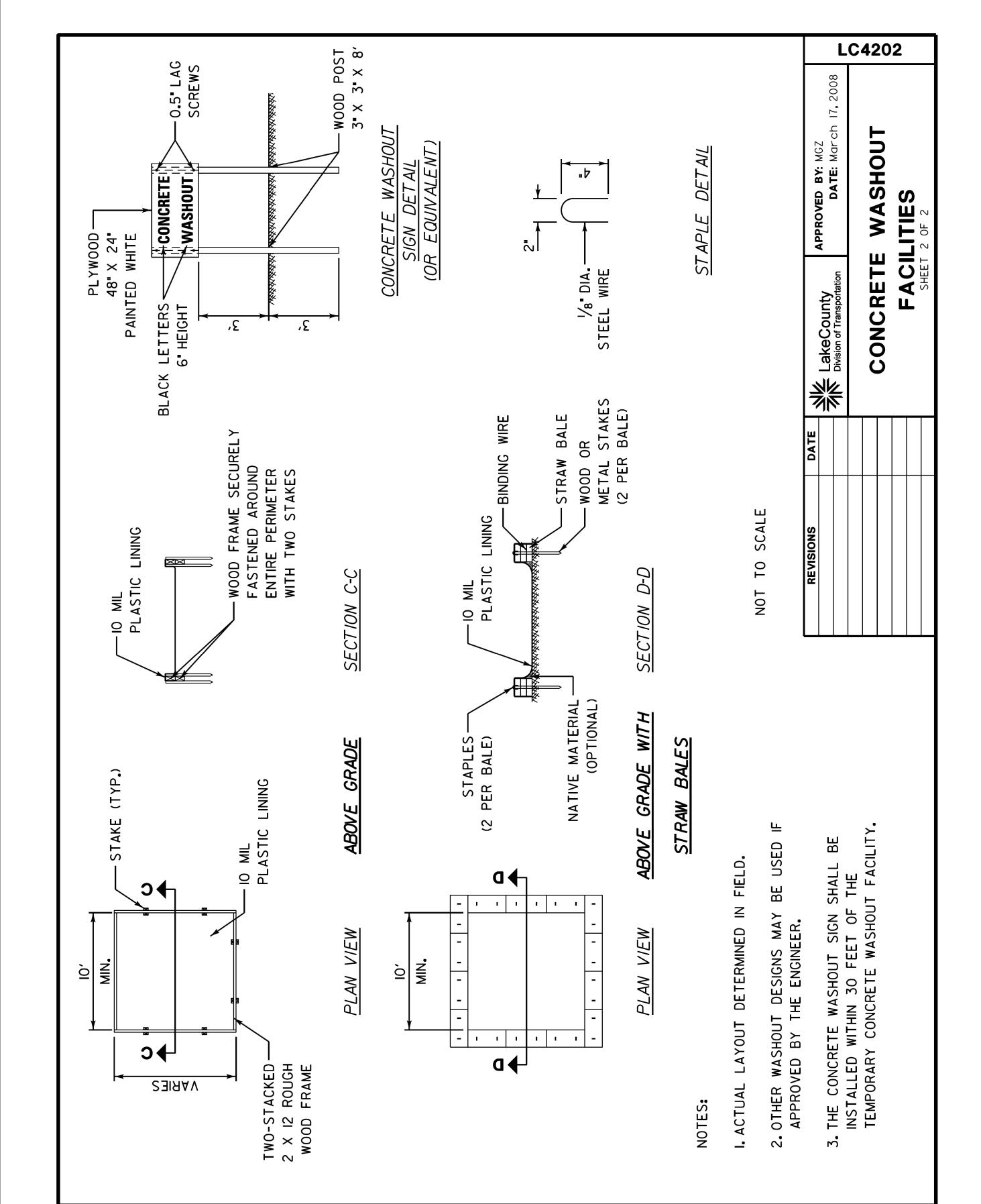
LAKE

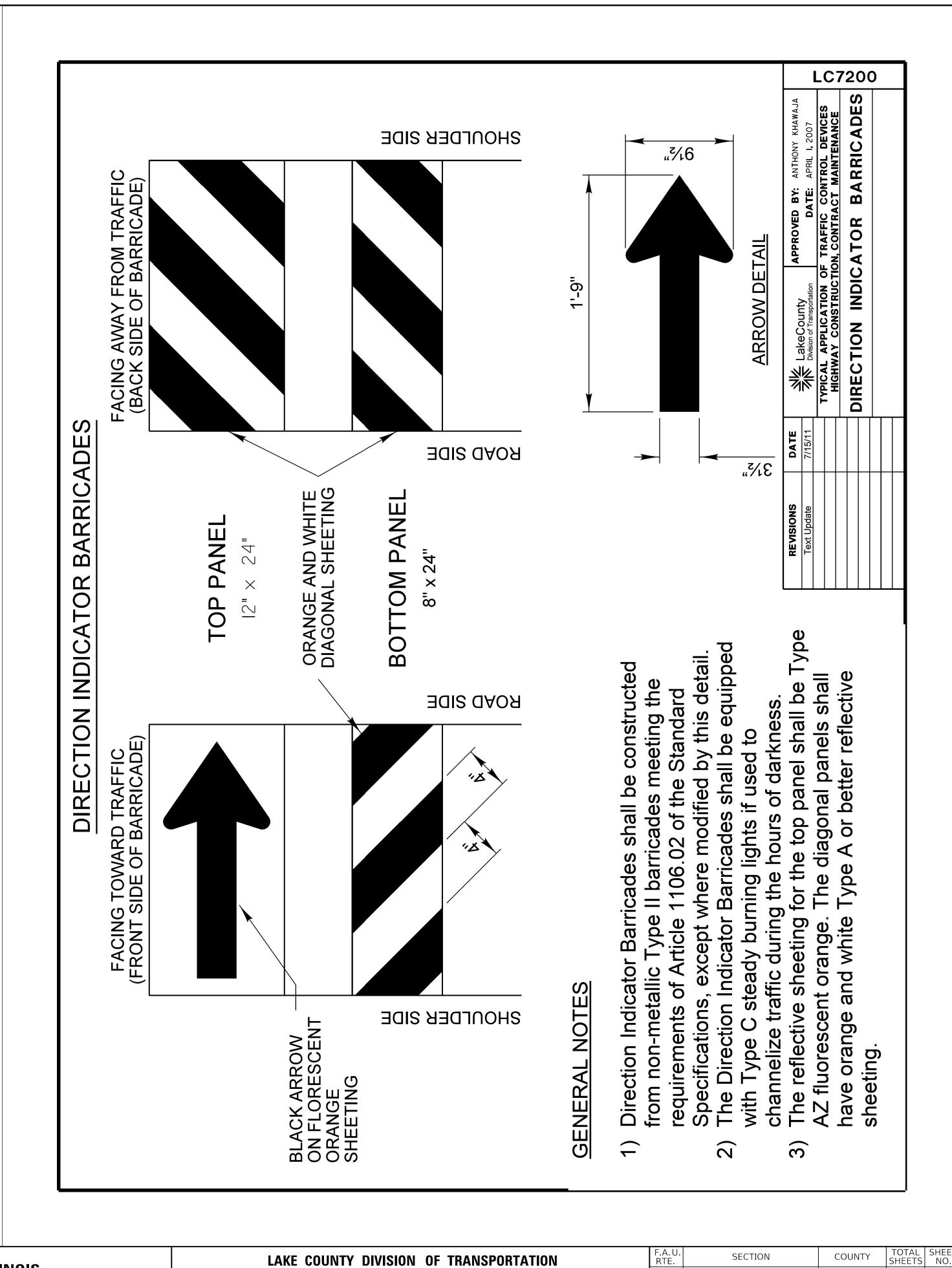
67

ILE NAME =

DESIGNED JRD REVISED USER NAME = zwallster REVISED ZCW DPB CHECKED REVISED PLOT SCALE = 1:1PLOT DATE = 4/3/2020REVISED DATE 1/10/2020

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





STANDARDS

TO STA.

SHEET 2 OF 4 SHEETS STA.

SCALE: NONE

69

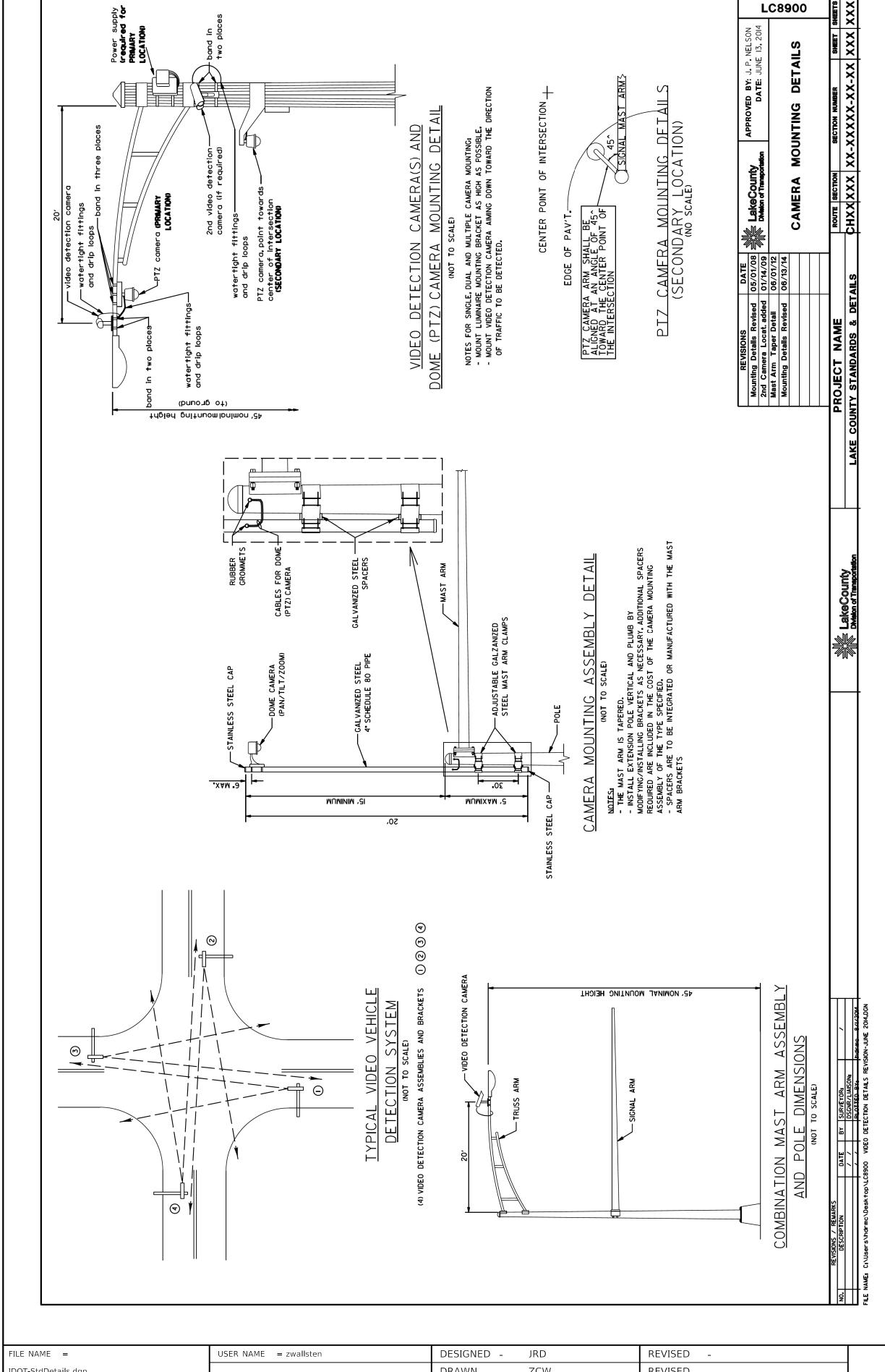
CONTRACT NO. 61G47

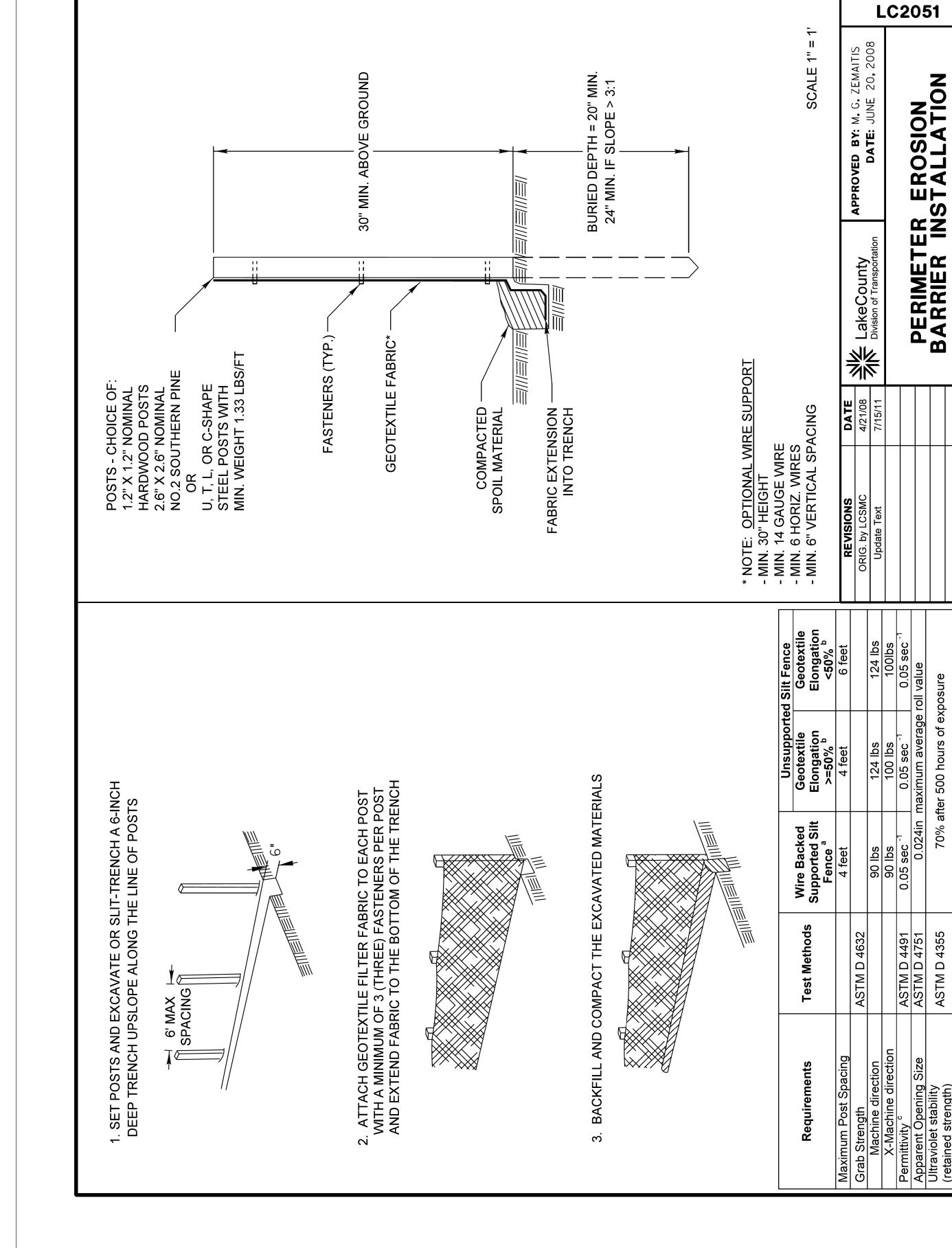
LAKE

12-00999-30-TL

ILLINOIS | FED. AID PROJECT

REVISED USER NAME = zwallsten DESIGNED -JRD REVISED ZCW DRAWN DPB REVISED CHECKED PLOT SCALE = 1:1- 1/10/2020 REVISED PLOT DATE = 4/6/2020DATE





LAKE COUNTY DIVISION OF TRANSPORTATION

STANDARDS

SHEET 3 OF 4 SHEETS STA.

SCALE: NONE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.

TO STA.

SECTION

12-00999-30-TL

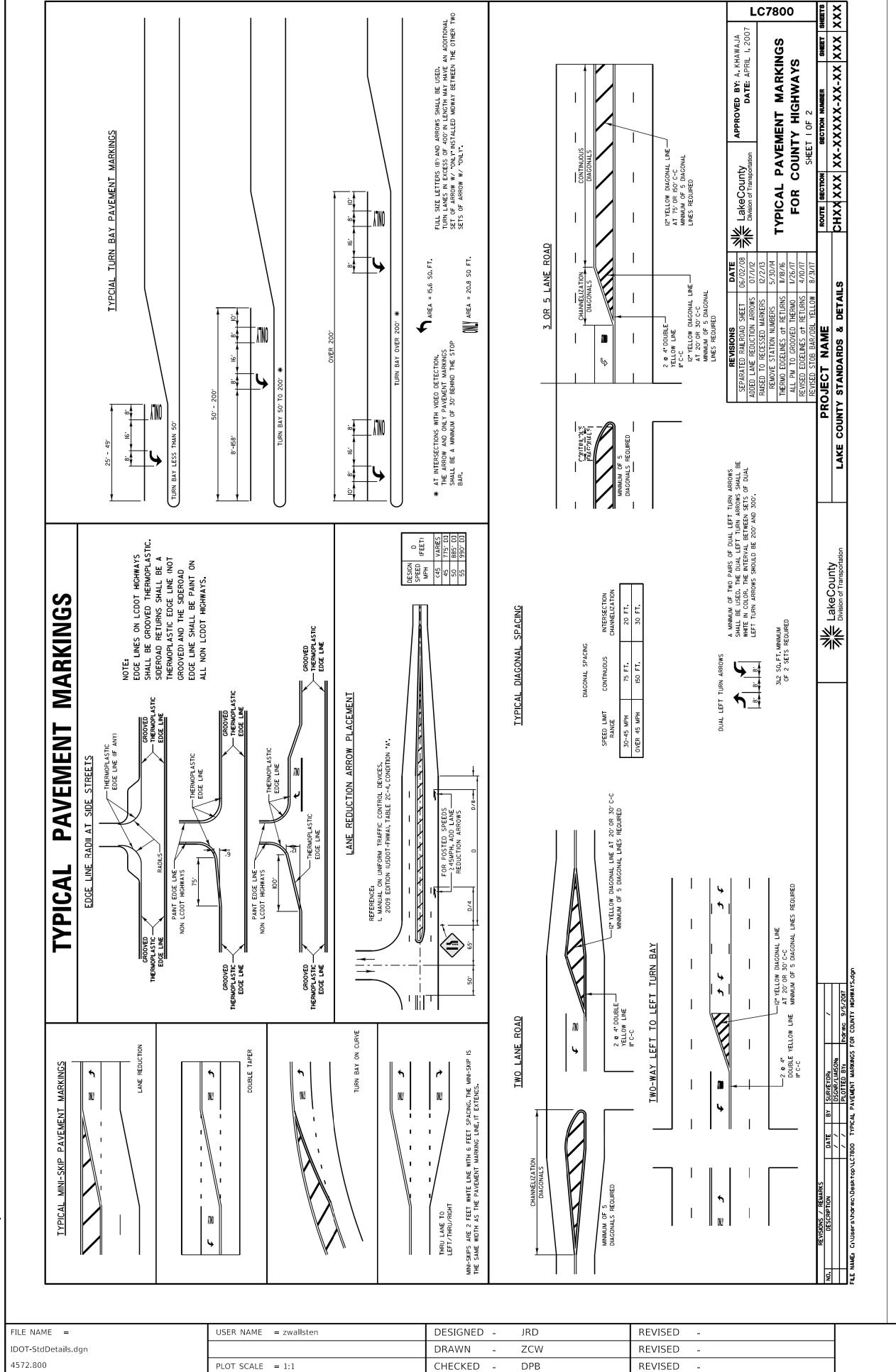
ILLINOIS FED. AID PROJECT

TOTAL SHEET NO.

69

CONTRACT NO. 61G47

LAKE



DATE

- 1/10/2020

PLOT DATE = 4/3/2020

REVISED

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

