

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	1
FED. ROAD DIST. NO.	ILLINOIS	FED AID PROJECT		
1	C-91-070-10	M-9003(482)		

CONTRACT NO. 63868

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

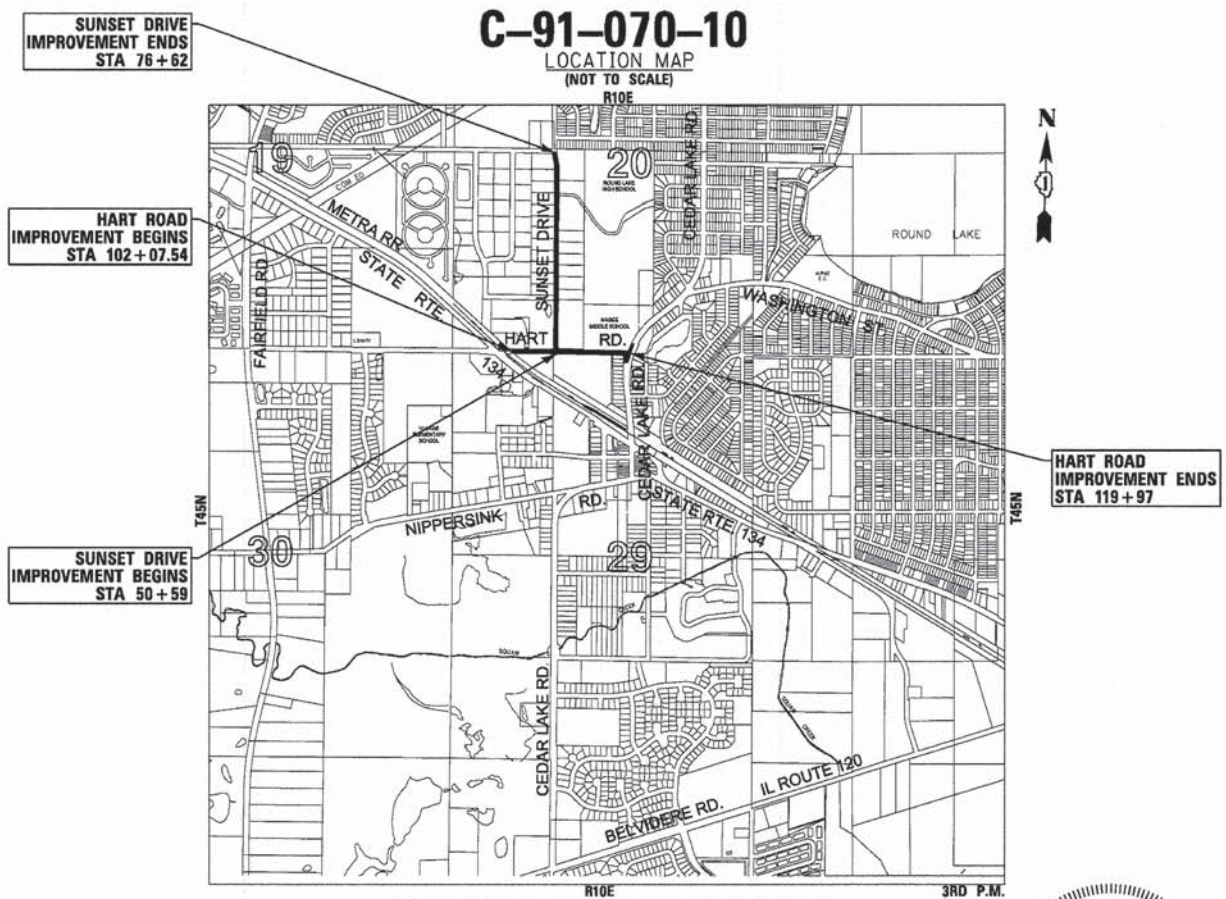
**DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 201 (HART ROAD) FAU 186 (IL ROUTE 134) TO FAU 192 (CEDAR LAKE ROAD)

RECONSTRUCTION

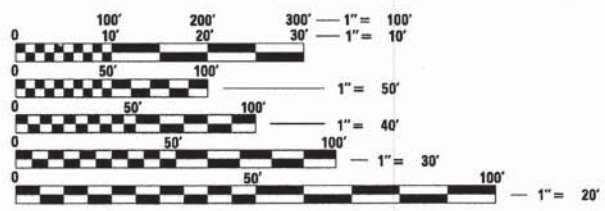
SECTION 00-00025-00-FP
PROJECT: M-9003(482)
VILLAGE OF ROUND LAKE
LAKE COUNTY
C-91-070-10



TRAFFIC DATA

HART ROAD
POSTED SPEED = 25 MPH
DESIGN SPEED = 30 MPH
EXISTING ADT = 7,300 (2009)
PROPOSED ADT = 9,000 (2040)
URBAN COLLECTOR

SUNSET DRIVE
POSTED SPEED = 25 MPH
DESIGN SPEED = 30 MPH
EXISTING ADT = 2,600 (2010)
PROPOSED ADT = 3,000 (2040)
URBAN COLLECTOR



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

J.U.L.I.E. DESIGN STAGE REQUEST
DIG. No. A2091169

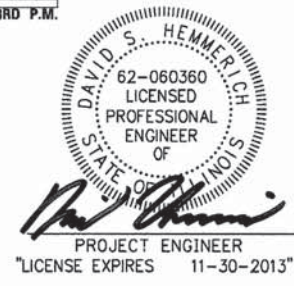
Call Before You Dig

JULIE
ILLINOIS ONE-CALL SYSTEM

CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:
COUNTY = LAKE
CITY-TOWNSHIP = ROUND LAKE - AVON
SEC. & 1/4 SEC. NO. = SEC 20 & 29
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 63868

AVON TOWNSHIP
GROSS LENGTH OF IMPROVEMENT = 4,393 LF OR 0.833 MILES
NET LENGTH OF IMPROVEMENT = 4,393 LF OR 0.833 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: *Ron Kraus PE*
12 AUG, 2013
VILLAGE OF ROUND LAKE

PASSED: *August 28, 2013*
C. J. Hoot
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: *August 28, 2013*
John F. Brennan
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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 LICENSE NO. 194-00121 - EXPIRES 4/30/2015
 PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847)705-4406 SCHAUMBURG, IL

HIGHWAY STANDARDS

STND.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-07	PERPENDICULAR CURB RAMP FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMP FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMP FOR SIDEWALKS
424016-01	MID-BLOCK CURB RAMP FOR SIDEWALKS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSING
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN - TYPE A
602011-02	CATCH BASIN - TYPE C
602301-03	INLET, TYPE A
602401-03	MANHOLE - TYPE A
602406-05	MANHOLE, TYPE A, 6 FOOT DIAMETER
602411-03	MANHOLE, TYPE A, 7 FOOT DIAMETER
602421-03	MANHOLE, TYPE A, 9 FOOT DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604051-03	FRAME AND GRATE, TYPE 11
604056-03	FRAME AND GRATE, TYPE 11V
604106-01	MEDIAN INLET FOR 36" REINFORCED CONCRETE PIPE
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-04	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877006-04	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-09	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

BENCHMARKS

BM #3	DESCRIPTION
BM #3	NORTHWEST ARROW BOLT AT NORTHEAST CORNER OF HART ROAD AND SUNSET DRIVE. ELEVATION = 780.46
BM #7	NORTHWEST ARROW BOLT AT SOUTH ENTRANCE TO MIDDLE SCHOOL NORTH SIDE HART ROAD. ELEVATION = 772.34
BM #9	ON NORTHEAST CORNER OF DOUBLE HANDHOLE AT SOUTHWEST CORNER CEDAR LAKE ROAD AND HART ROAD. ELEVATION = 776.94
BM #10	ON NORTHWEST FLANGE BOLT JUST EAST OF CAROL LANE IN NORTH PARKWAY OF HART ROAD. ELEVATION = 791.84
BM #12	ON NORTHWEST FLANGE BOLT JUST WEST OF CAROL LANE IN NORTH PARKWAY OF HART ROAD. ELEVATION = 793.40
BM #15	AT NORTHEAST CORNER OF DOUBLE HANDHOLE AT SOUTHWEST CORNER OF HART ROAD AND IL. RTE 134. ELEVATION = 788.55
BM #16	SOUTH ARROW BOLT AT EAST SIDE OF SUNSET DRIVE AT PANTHER DRIVE. ELEVATION = 769.90
BM #17	SOUTHWEST ARROW BOLT AT EAST SIDE OF SUNSET DRIVE ADDRESS 704. ELEVATION = 764.17
BM #20	NORTHWEST BOLT AT EAST SIDE OF SUNSET DRIVE AT LONG LAKE ROAD. ELEVATION = 760.76
BM #21	NORTHEAST BOLT AT EAST SIDE AT ADDRESS 917 SUNSET DRIVE. ELEVATION = 750.86
BM #24	IN POWER POLE WITH LIGHT AT SOUTHEAST CORNER OF SUNSET DRIVE AND BEACHVIEW. ELEVATION = 747.89

DATUM = NAVD88

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COMMITMENTS

- DURING THE SCHOOL YEAR, ROUGHLY FROM THE END OF AUGUST TO THE END OF MAY ACCESS TO THE ROUND LAKE AREA HIGH SCHOOL, DISTRICT OPERATIONS CENTER, AND MAGEE MIDDLE SCHOOL SHALL BE PROVIDED AT ALL TIMES.
- THE PAVEMENT RECONSTRUCTION OF HART ROAD (THRU BINDER) BETWEEN CEDAR LAKE ROAD AND THE MAGEE MIDDLE SCHOOL ENTRANCE SHALL BE COMPLETED WHEN SCHOOL IS NOT IN SESSION FROM THE END OF MAY TO THE END OF AUGUST.

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 3/20/15
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DESIGNED - DSH	REVISED - 8-12-13 PER 100T
DRAWN - MAC	REVISED - 8-13-13 PER VILLAGE
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_Index.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
BENCHMARKS, AND COMMITMENTS

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	2
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
 2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.
 3. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED (MAY REQUIRE A DEPOSIT) OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.
 4. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL AS TEMPORARY ACCESS.
 5. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND BUSINESSES WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL PROVIDE AT LEAST 72 HOURS NOTICE TO BUSINESSES AND 24 HOURS NOTICE TO RESIDENTS BEFORE CLOSING DRIVEWAYS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES.
 6. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNERS, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
7. EXISTING PAVEMENT, DRIVEWAY PAVEMENT, CURB AND GUTTER AND SIDEWALK TO REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND SHALL BE INCLUDED IN THE PRICE OF THE APPROPRIATE REMOVAL PAY ITEM.
8. CURB AND GUTTER SHALL BE DEPRESSED AT DRIVEWAYS AND SIDEWALK RAMPS IN ACCORDANCE WITH THE IDOT HIGHWAY STANDARDS. SIDEWALK RAMPS FOR ACCESS FOR THE DISABLED SHALL BE PROVIDED AT THE PROPOSED CROSSWALKS IN ACCORDANCE WITH THE IDOT HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
 9. THE FINISHED HOT-MIX ASPHALT SURFACE SHALL BE CONSTRUCTED 0.25 INCH ABOVE THE GUTTER FLAG.
 10. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.
11. PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE THICKENED TO 6-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES PRIVATE DRIVEWAYS AND 8-INCHES WHERE SIDEWALK CROSSES COMMERCIAL DRIVEWAYS.
12. A ½-INCH THICK EXPANSION JOINT SHALL BE PROVIDED AT THE JUNCTION OF THE DRIVEWAY APRON AND CURB, AND AT THE JUNCTION OF THE DRIVEWAY APRON AND THE SIDEWALK. THIS WORK WILL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT.
13. DETECTABLE WARNINGS SHALL BE CONSTRUCTED WITH THE INSTALLATION OF A CAST-IN-PLACE 'ARMOR-TILE', 'ARMORCAST', 'ADA TILE' OR 'TUF-TILE' 24"x48" NOMINAL PANEL WIDTH. THE PANEL SHALL BE A POLYMER COMPOSITE AND COMPLY WITH ADA REQUIREMENTS. THE DOMES LOCATED ON THE PANEL SHALL PARALLEL THE PAVEMENT CROSS WALK WITH THE CLOSEST EDGE LOCATED AT THE BACK OF CURB. THE PANEL COLOR SHALL BE BRICK RED UNLESS OTHERWISE APPROVED BY THE ENGINEER. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
14. THE CURB SHALL BE TAPERED TO THE GUTTER IN A FIVE (5) FOOT LENGTH WHEREVER THE CURB AND GUTTER TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.
15. ALL POSTS, RAILROAD TIES, BOULDERS, AND DECORATIVE TIMBER IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
16. PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO INSURE THAT GRADE CONFLICTS WILL NOT OCCUR. THE COST OF THIS EXPLORATION SHALL BE PAID FOR AS EXPLORATION TRENCH, SPECIAL.
17. THE COST OF MAKING ANY SEWER CONNECTIONS TO EXISTING DRAINAGE STRUCTURES OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER OR STRUCTURE. ANY ADDITIONAL STORM SEWER PIPE REQUIRED TO MAKE THE CONNECTION SHALL BE OF THE SAME SIZE AND MATERIAL TYPE AS THE EXISTING STORM SEWER AND SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE.
18. IF ANY STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM AND INCLUDED IN THE COST OF THE STORM SEWER CONSTRUCTION.

19. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.
 20. FRAME ELEVATIONS GIVEN 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 ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
 21. FOR STEEL BARS CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT (847) 705-4337.
22. PIPE UNDERDRAIN CONSTRUCTION AT THE LOCATIONS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER SHALL INCLUDE EXCAVATION; CONNECTIONS TO EXISTING OR PROPOSED STORM PIPES, DRAINAGE STRUCTURES, OR PIPE DRAINS; GEOTECHNICAL FABRIC SOCK; AND CA-11 TRENCH BACKFILL TO THE BOTTOM OF THE HOT-MIX ASPHALT OR PCC BASE COURSE.
23. AGGREGATE BASE COURSE, TYPE B 4" SHALL BE INSTALLED UNDER ALL DRIVEWAY PAVEMENTS CONSTRUCTED ACCORDING TO IDOT DISTRICT ONE DETAILS BD-01 AND BD-02. THE AGGREGATE BASE COURSE, TYPE B 4" WILL BE PAID FOR SEPARATELY.
24. A FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED AT ALL LOCATIONS WHERE STORM SEWER PIPE ENTERS STORM STRUCTURES. THE ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE WALL SHALL BE FITTED WITH TROWELABLE BUTYL RUBBER MASTIC GASKET MATERIAL. THIS WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE STORM STRUCTURE.
25. ALL PROPOSED OPEN GRATES OR CURB BOXES SHALL HAVE THE WORDS "DUMP NO WASTE - DRAINS TO WATERWAYS" CAST INTO THEM. THIS SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE STORM STRUCTURE.
26. A 6" X 6" WELDED WIRE FABRIC SHALL BE INSTALLED IN ALL CONCRETE DRIVEWAY PAVEMENTS AND INCLUDED IN THE COST OF PCC DRIVEWAY PAVEMENT - 8".
27. INLINE CONNECTIONS OF PROPOSED STORM SEWER REPAIRS TO EXISTING STORM SEWER TO REMAIN OR ADJUSTING SANITARY SEWERS TO EXISTING SANITARY SEWERS TO REMAIN SHALL BE MADE WITH A NON-SHEAR FLEXIBLE TYPE COUPLING WITH STAINLESS STEEL BANDS. THIS WORK SHALL BE INCLUDED IN STORM SEWER REPAIR OR ADJUSTING SANITARY SEWERS.
28. ONLY VILLAGE OF ROUND LAKE PUBLIC WORKS STAFF SHALL OPERATE WATER VALVES. COORDINATE SHUTDOWNS WITH THE ENGINEER. WATER SHUTDOWNS SHALL BE LIMITED TO 2 HOURS OR AS APPROVED BY THE ENGINEER.
 29. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH METRA RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE METRA RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.
 30. ALL AGGREGATE USED ON THE PROJECT SHALL BE CRUSHED MATERIAL.
 31. MATERIALS, STRUCTURES, OR MACHINES SHALL NOT BE STORED WHERE THEY WILL OBSTRUCT STREET CROSSINGS OR DRIVEWAY SIGHTLINES.
32. EXISTING BLOCKS REMOVED FROM EXISTING BLOCK RETAINING WALLS SHALL BE NEATLY STACKED ON PALLETS AND DELIVERED TO THE VILLAGE PUBLIC WORKS FACILITY AT 751 W. TOWNLINE ROAD. THIS WORK SHALL BE INCLUDED IN RETAINING WALL REMOVAL.
33. ALL LAKE COUNTY D.O.T. STANDARDS, DETAILS, AND SPECIAL PROVISIONS APPLY TO WORK WITHIN THE LAKE COUNTY D.O.T. RIGHT-OF-WAY ONLY.

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 1000 N. LAKE STREET, SUITE 100, ROUND LAKE, IL 60071-4411
 TEL: 815-251-1100 FAX: 815-251-1101
 WWW.BAXTERANDWOODMAN.COM



DESIGNED - DSH	REVISED - 8-12-13 PER IDOT
DRAWN - MAC	REVISED - 8-13-13 PER VILLAGE
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_Gen-notes.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	3
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT M-9003(482)	

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	NON PARTICIPATING (100% VILLAGE) 0044
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	135	135		
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	20	20		
* 20101100	TREE TRUNK PROTECTION	EACH	28	28		
* 20101200	TREE ROOT PRUNING	EACH	28	28		
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	14	14		
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	14	14		
20200100	EARTH EXCAVATION	CU YD	5,474	5,474		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,396	3,396		
20800150	TRENCH BACKFILL	CU YD	15,826	15,826		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	12,260	12,260		
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	6,249	6,249		
* 25000200	SEEDING, CLASS 2	ACRE	0.26	0.26		
* 25000310	SEEDING, CLASS 4	ACRE	0.13	0.13		
* 25000314	SEEDING, CLASS 4B	ACRE	0.37	0.37		
* 25000322	SEEDING, CLASS 5A	ACRE	0.13	0.13		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	89	89		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	89	89		
25100630	EROSION CONTROL BLANKET	SQ YD	3,524	3,524		
25100900	TURF REINFORCEMENT MAT	SQ YD	35	35		
* 25200110	SODDING, SALT TOLERANT	SQ YD	5,046	5,046		
* 25200200	SUPPLEMENTAL WATERING	UNIT	100	100		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	338	338		
28000400	PERIMETER EROSION BARRIER	FOOT	2,522	2,522		
28000510	INLET FILTERS	EACH	54	54		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	18,780	18,780		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,482	1,482		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	12,311	12,311		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	320	320		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	4,048	4,048		
35501288	HOT-MIX ASPHALT BASE COURSE, 2 1/2"	SQ YD	4,030	4,030		

* INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	4
C-9J-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-90034821				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	NON PARTICIPATING (100% VILLAGE) 0044
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	112	112		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	452	452		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	23	23		
40600300	AGGREGATE (PRIME COAT)	TON	74	74		
40600990	TEMPORARY RAMP	SQ YD	660	660		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,698	1,698		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,206	1,206		
40701871	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/2"	SQ YD	6,630	6,630		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	50	50		
42001300	PROTECTIVE COAT	SQ YD	5,132	5,132		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	182	182		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	24,822	24,772	50	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	644	644		
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	3,445	3,445		
42400800	DETECTABLE WARNINGS	SQ FT	140	140		
44000100	PAVEMENT REMOVAL	SQ YD	8,740	8,740		
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	5,810	5,810		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,038	1,038		
44000300	CURB REMOVAL	FOOT	233	233		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	5,203	5,203		
44000600	SIDEWALK REMOVAL	SQ FT	10,055	10,055		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	13	13		
50105220	PIPE CULVERT REMOVAL	FOOT	37	37		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	509	509		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	542	542		
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	26	26		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	280	280		
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	242	242		
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	2,000	2,000		
550A1050	STORM SEWERS, CLASS A, TYPE 4 36"	FOOT	467	467		

* INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	5
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	NON PARTICIPATING (100% VILLAGE) 0044
60260100	INLETS TO BE ADJUSTED	EACH	1	1		
60261300	INLETS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	2	2		
60262700	INLETS TO BE RECONSTRUCTED	EACH	2	2		
60263900	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	3	3		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	9	9		
60500040	REMOVING MANHOLES	EACH	2	2		
60500070	REMOVING MANHOLES TO MAINTAIN FLOW	EACH	1	1		
60500060	REMOVING INLETS	EACH	18	18		
60600605	CONCRETE CURB, TYPE B	FOOT	192	192		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	6,994	6,994		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	97	97		
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	50	50		
66300105	CALCIUM CHLORIDE APPLIED	TON	21	21		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	6,100	6,100		
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
67100100	MOBILIZATION	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	30	30		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,077	2,077		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	770	770		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18,458	18,458		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2,044	2,044		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1,648	1,648		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	338	338		
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1,800	1,800		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	938	938		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	205	205		
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	21	21		
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	512	512		

* INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	7
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	NON PARTICIPATING (100% VILLAGE) 0044
* 78000100	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	385	385		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9184	9,184		
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	90	90		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1022	1,022		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	824	824		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	169	169		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	16		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	710	710		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10		
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	218		218	
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	66		66	
* 81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	50		50	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	196		196	
* 81400100	HANDHOLE	EACH	2		2	
* 81400300	DOUBLE HANDHOLE	EACH	1		1	
* 82103250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	2		2	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	660		660	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	583		583	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1330		1,330	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	375		375	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	48		48	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT, GROUNDING CONDUCTOR, NO. 6 1C	FOOT	394		394	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	31		31	
* 87900200	DRILL EXISTING HANDHOLE	EACH	1		1	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5		5	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3		3	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	

* INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	8
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	NON PARTICIPATING (100% VILLAGE) 0044
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1		1	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2	
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6		6	
* 88700200	LIGHT DETECTOR	EACH	2		2	
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	2		2	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
* 89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1		1	
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,403		6,403	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
* 89502380	REMOVE EXISTING HANDHOLE	EACH	4		4	
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6		6	
* B2000778	TREE, AMELANCHIER LAEVIS (ALLEGHENY SERVICEBERRY), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	10	10		
* B2001624	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	11	11		
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	300	300		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4			4
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	230	230		
* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1	
* Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1		1	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		
Z0056608	STORM SEWERS (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	82	82		
Z0062456	TEMPORARY PAVEMENT	SQ YD	500	500		
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1	
# Z0076600	TRAINEES	HOUR	1,000	1,000		
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		
XZ127900	RETAINING WALL REMOVAL	FOOT	270	270		
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	302		302	

* INDICATES SPECIALTY ITEM

INDICATES CONSTRUCTION TYPE CODE 0042 TRAINEES

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	9
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-9003(482)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	NON PARTICIPATING (100% VILLAGE) 0044
X0325366	STORM SEWER REPAIR	FOOT	65	65		
X0326950	INSTALL EXISTING ELECTRIC CABLE	FOOT	624		624	
X0327566	ROADSIDE DETECTOR	EACH	1		1	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	500	500		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3	3		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	33	33		
X4023000	TEMPORARY ACCESS (ROAD)	EACH	10	10		
X5610680	WATER MAIN PROTECTION	FOOT	80	80		
X6022120	MANHOLES, DROP TYPE, 7' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
X6023102	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	1	1		
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	8	8		
X6640306	CHAIN LINK FENCE TO BE RELOCATED	FOOT	180	180		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1	
X8730571	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	105		105	
X8730800	ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	105		105	
X8770139	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1		1	
XX003643	BASE REPAIR, SPECIAL	SQ YD	581	581		
XX005928	TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	2		2	
XX005931	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	1		1	
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3		3	
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1		1	
XX008131	ELECTRIC CABLE IN CONDUIT, VIDEO NO. 18 3C	FOOT	580		580	
XX008253	VIDEO ENCODER	EACH	1		1	
XX008392	OUTDOOR RATED NETWORK CABLE	FOOT	53		53	
XX008536	PREPARATION OF BASE (SPECIAL)	SQ YD	5,810	5,810		
XX008904	STORM SEWERS, PILE SUPPORTED, 36"	FOOT	160	160		
XX008905	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, PILE SUPPORTED, 36"	EACH	1	1		
XX008906	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 34 FT. (SPECIAL)	EACH	1		1	

* INDICATES SPECIALTY ITEM

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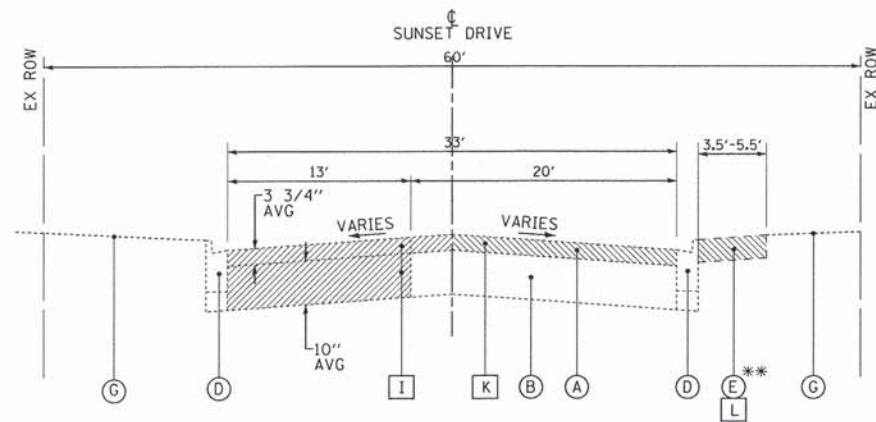
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	10
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



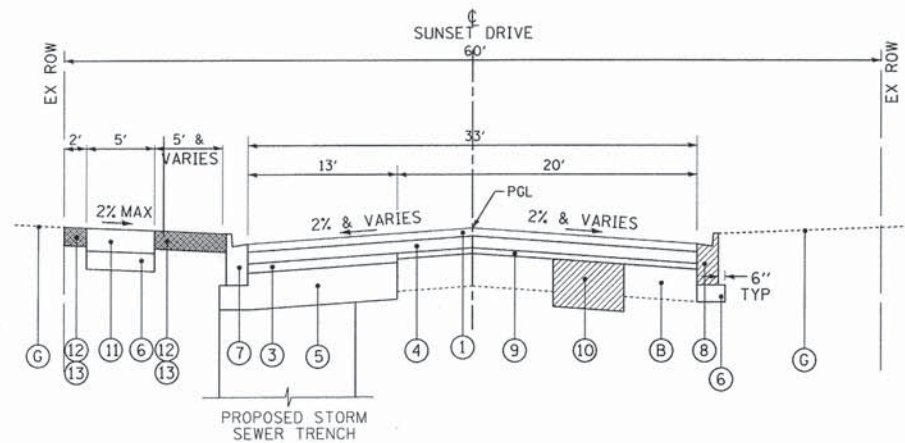
**EXISTING TYPICAL SECTION
SUNSET DRIVE
STA 50+59 TO STA 76+62**

** HMA STA 70+80 TO STA 75+42 ONLY
PCC STA 75+42 TO STA 76+62 ONLY

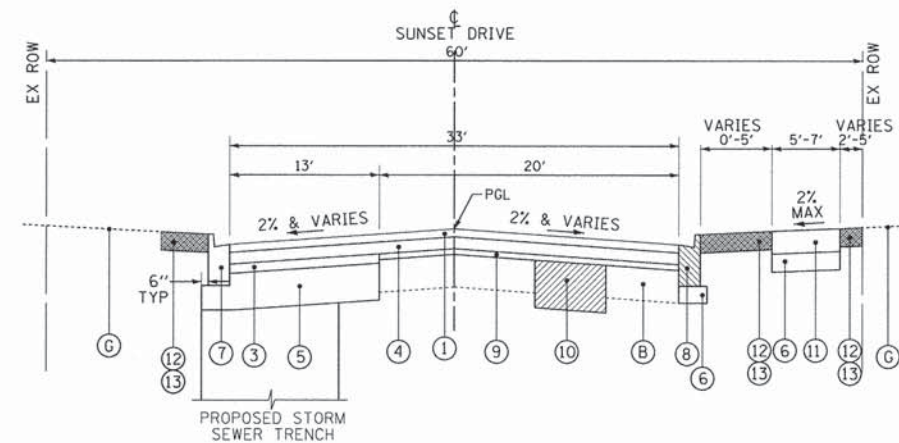
- EXISTING LEGEND**
- (A) EXISTING HOT-MIX ASPHALT BINDER AND SURFACE COURSES
 - (B) EXISTING AGGREGATE BASE
 - (C) EXISTING CURB AND GUTTER, TYPE B-6.24
 - (D) EXISTING CURB AND GUTTER (VARIES FROM M-4.12 TO B-6.12)
 - (E) EXISTING SIDEWALK
 - (F) EXISTING AGGREGATE SHOULDER
 - (G) EXISTING GROUND SURFACE
 - (H) EXISTING SEGMENTAL BLOCK RETAINING WALL (STA 102+56 TO STA 104+79)
 - (I) PAVEMENT REMOVAL
 - (J) COMBINATION CURB AND GUTTER REMOVAL
 - (K) HOT-MIX ASPHALT SURFACE REMOVAL - 4"
 - (L) SIDEWALK REMOVAL
 - (M) RETAINING WALL REMOVAL (STA 102+56 TO STA 104+79)
 - (Hatched) ITEM TO BE REMOVED

- PROPOSED LEGEND**
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-2"
 - (2) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/2"
 - (3) HOT-MIX ASPHALT BASE COURSE, 2 1/2"
 - (4) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50-3"
 - (5) AGGREGATE SUBGRADE IMPROVEMENT-12"
 - (6) AGGREGATE BASE COURSE, TYPE B-4"
 - (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (9 1/4" FLAG DEPTH)
 - (8) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS SHOWN ON PLAN OR AS DETERMINED BY THE ENGINEER)
 - (9) PREPARATION OF BASE (SPECIAL)
 - (10) BASE REPAIR, SPECIAL (AS DETERMINED BY THE ENGINEER)
 - (11) PORTLAND CEMENT CONCRETE SIDEWALK-5 INCH
 - (12) TOPSOIL FURNISH AND PLACE, 4"
 - (13) SODDING, SALT TOLERANT
 - (14) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER) *
 - (15) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (IN UNDERCUT AREAS)

* AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR.



**PROPOSED TYPICAL SECTION
SUNSET DRIVE
STA 50+59 TO STA 66+02**



**PROPOSED TYPICAL SECTION
SUNSET DRIVE
STA 66+02 TO STA 76+62**

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CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_Typicals.shp

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	14
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT M-9003(482)		

COMMERCIAL ENTRANCE SCHEDULE

STATION	EXISTING APRON MAT'L	44000200 DRIVEWAY PAVEMENT REMOVAL (SY)	44000300 CURB REMOVAL (FT)	PROPOSED APRON MAT'L	PROPOSED APRON AREA (SY)	PROPOSED DRIVEWAY AREA BEHIND SDWLK (SY)	TOTAL DRIVEWAY AREA (SY)	40603335 HMA SURFACE CRSE, MIX "D" N50 (TON)	35501316 HMA BASE COURSE 8" (SY)	42300400 PCC DRIVEWAY PAVEMENT 8" (SY)	35101600 AGG. BASE CRSE TY B, 4" (SY)	60600605 CONC CURB TYPE B (FT)	X4022000 TEMP. ACCESS (CE) (EACH)	NOTES
HART ROAD														
SUBTOTAL - HART ROAD - STAGE 1		0	0					0	0	0	0	0	0	
110+04 LT	HMA	64	-	HMA	36	0	36	5	36	-	36	-	1	
111+50 LT	GRVL	0	-	HMA	20	0	20	3	20	-	20	-	1	FIELD ENTRANCE
SUBTOTAL - HART ROAD - STAGE 2		64	0					8	56	0	56	0	2	
SUNSET DRIVE														
52+38 RT	PCC	27	0	PCC	27	0	27	0	0	27	27	0	1	
54+27 RT	PCC	24	17	PCC	24	0	24	0	0	24	26	17	1	
54+81 RT	PCC	21	17	PCC	21	0	21	0	0	21	23	17	1	
57+34 RT	HMA	25	12	HMA	25	0	25	3	25	0	27	12	1	
59+00 RT	HMA	26	12	HMA	26	0	26	3	26	0	28	12	1	
59+85 RT	HMA	16	14	HMA	16	0	16	2	16	0	18	14	1	
60+35 LT	HMA	37	0	HMA	18	5	23	3	23	0	23	0	1	
60+96 RT	PCC	14	0	PCC	14	0	14	0	0	14	14	0	1	
61+61 RT	HMA	28	0	HMA	28	0	28	4	28	0	28	0	2	ADD'L TEMP ACCESS FOR TRUCK MANEUVERING IN WEST LANE
61+98 RT	HMA	15	0	HMA	15	0	15	2	15	0	15	0	2	ADD'L TEMP ACCESS FOR TRUCK MANEUVERING IN WEST LANE
62+27 LT	HMA	42	33	HMA	0	15	15	2	15	0	17	16	1	
62+37 RT	HMA	29	0	HMA	29	0	29	4	29	0	29	0	2	ADD'L TEMP ACCESS FOR TRUCK MANEUVERING IN WEST LANE
62+96 LT	HMA	41	40	HMA	0	15	15	2	15	0	17	16	1	
63+18 RT	HMA	41	0	HMA	41	0	41	5	41	0	41	0	2	ADD'L TEMP ACCESS FOR TRUCK MANEUVERING IN WEST LANE
63+57 LT	PCC	36	0	PCC	17	4	21	0	0	21	21	0	1	
63+57 LT	HMA	39	0	HMA	0	7	7	1	7	0	7	0	0	HMA PARKING AREA BEHIND PROPOSED SIDEWALK
63+95 RT	PCC	14	0	PCC	14	0	14	0	0	14	14	0	2	ADD'L TEMP ACCESS FOR TRUCK MANEUVERING IN WEST LANE
64+48 LT	HMA	69	46	HMA	35	10	45	6	45	0	51	46	1	
67+09 LT	PCC	21	0	PCC	21	0	21	0	0	21	21	0	1	
70+54 RT	HMA	55	0	HMA	0	17	17	2	17	0	17	0	1	HIGH SCHOOL ENTRANCE
70+70 LT	HMA	29	30	HMA	29	0	29	4	29	0	33	30	1	
71+62 RT	PCC	59	0	PCC	0	19	19	0	0	19	19	0	1	
72+76 LT	GRVL	24	12	HMA	24	0	24	3	24	0	26	12	1	
72+98 RT	HMA	79	0	HMA	0	28	28	4	28	0	28	0	1	ACCESS TO PARKING AREA
73+54 RT	PCC	65	0	PCC	0	21	21	0	0	21	21	0	1	
74+44 LT	GRVL	13	0	HMA	13	0	13	2	13	0	13	0	1	
SUBTOTAL		889	233					52	396	182	604	192	30	
TOTALS		953	233					60	452	182	660	192	32	

PRIVATE ENTRANCE SCHEDULE

STATION	EXISTING APRON MAT'L	44000200 DRIVEWAY PAVEMENT REMOVAL (SY)	44000300 CURB REMOVAL (FT)	PROPOSED APRON MAT'L	PROPOSED APRON AREA (SY)	PROPOSED DRIVEWAY AREA BEHIND SDWLK (SY)	TOTAL DRIVEWAY AREA (SY)	40603335 HMA SURFACE CRSE, MIX "D" N50 (TON)	35501308 HMA BASE COURSE 6" (SY)	42300200 PCC DRIVEWAY PAVEMENT 6" (SY)	35101600 AGG. BASE CRSE TY B, 4" (SY)	60600605 CONC CURB TYPE B (FT)	X4021000 TEMP. ACCESS (PE) (EACH)	NOTES
HART ROAD														
102+52 LT	HMA	0	-	HMA	58	0	58	7	58	-	58	-	1	
103+92 RT	HMA	43	-	HMA	0	23	23	3	23	-	23	-	1	
107+27 RT	GRVL	42	-	HMA	0	31	31	4	31	-	31	-	1	
SUBTOTAL - HART ROAD - STAGE 1		85	0					14	112	0	112	0	3	
SUBTOTAL - HART ROAD - STAGE 2		0	0					0	0	0	0	0	0	
SUNSET DRIVE														
NONE														
SUBTOTAL		0	0					0	0	0	0	0	0	
TOTALS		85	0					14	112	0	112	0	3	

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DESIGNED - DSH
 DRAWN - MAC
 CHECKED - RWL
 DATE - 06/20/13
 REVISED - 8-12-13 PER IDOT
 REVISED - 8-13-13 PER VILLAGE
 REVISED -
 FILE - 071749_PH2_SH_Schedules.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	15
C-91-070-10		CONTRACT NO. 63968		
FED. ROAD DIST. NO. 1 [ILLINOIS]		FED. AID PROJECT M-9003482		

EARTHWORK SCHEDULE

STATION BEGIN	STATION END	UNDERCUT AND AGG. SUBGRADE IMPROVEMENT (CU YD)	TOPSOIL EXCAVATION (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	STORM SEWER EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJUST FOR 20% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
HART ROAD - WEST STAGE										
102+08	102+50	54.8	10.7	65.4	117.1	5.0	122.1	97.7	11.7	86.0
102+50	103+00	65.0	27.4	92.4	126.6	5.0	131.6	105.3	10.1	95.2
103+00	103+50	67.0	50.5	117.5	127.4	0.0	127.4	102.0	6.0	96.0
103+50	104+00	76.1	29.4	105.5	125.1	0.0	125.1	100.1	2.8	97.4
104+00	104+50	78.1	27.5	105.6	138.0	0.0	138.0	110.4	2.5	107.9
104+50	105+00	72.5	53.3	125.9	160.5	0.0	160.5	128.4	4.9	123.5
105+00	105+50	36.3	49.4	85.6	140.5	7.0	147.5	118.0	5.7	112.3
105+50	106+00	0.0	53.5	53.5	109.3	73.0	182.3	145.9	11.6	134.3
106+00	106+50	0.0	54.8	54.8	96.0	66.0	162.0	129.6	13.6	116.0
106+50	107+00	0.0	50.6	50.6	97.3	66.0	163.3	130.7	12.8	118.0
107+00	107+50	0.0	51.3	51.3	81.1	85.0	166.1	132.9	21.6	111.3
107+50	107+70	0.0	14.7	14.7	36.5	24.0	60.5	48.5	8.3	40.2
SUBTOTAL		450	473	923	1356	331	1687	1350	112	1239
HART ROAD - EAST STAGE										
107+70	108+00	0.0	25.0	25.0	50.3	246.0	296.3	237.1	14.0	223.1
108+00	108+50	0.0	59.7	59.7	47.1	390.0	437.1	349.7	51.0	298.7
108+50	109+00	0.0	51.4	51.4	50.6	412.0	462.6	370.2	69.9	300.3
109+00	109+50	36.3	50.6	86.9	65.2	333.0	398.2	318.6	78.0	240.6
109+50	110+00	72.5	36.5	109.1	93.6	300.0	393.6	315.0	60.4	254.6
110+00	110+50	72.5	37.4	109.9	110.6	300.0	410.6	328.5	57.9	270.6
110+50	111+00	72.5	58.0	130.5	100.1	323.0	423.1	338.6	83.0	255.6
111+00	111+50	72.5	67.3	139.8	87.3	270.0	357.3	285.9	72.4	213.5
111+50	112+00	72.5	67.0	139.6	85.2	270.0	355.2	284.2	72.8	211.4
112+00	112+50	72.5	70.8	143.3	90.8	270.0	360.8	288.7	107.0	181.7
112+50	113+00	72.5	73.2	145.8	82.2	410.0	492.2	393.8	110.4	283.4
113+00	113+50	72.5	60.4	132.9	71.8	520.0	591.8	473.5	95.0	378.5
113+50	114+00	72.5	61.1	133.6	61.2	500.0	561.2	449.0	101.3	347.7
114+00	114+50	36.3	49.0	85.3	89.4	500.0	589.4	471.5	77.5	394.0
114+50	115+00	0.0	28.8	28.8	140.7	530.0	670.7	536.6	32.2	504.4
115+00	115+50	0.0	33.1	33.1	109.2	470.0	579.2	463.4	18.6	444.8
115+50	116+00	0.0	51.5	51.5	53.7	310.0	363.7	291.0	29.3	261.7
116+00	116+50	0.0	54.8	54.8	78.4	70.0	148.4	118.7	33.1	85.6
116+50	117+00	0.0	69.4	69.4	173.8	0.0	173.8	139.0	20.2	118.8
117+00	117+26	0.0	45.1	45.1	123.5	0.0	123.5	98.9	6.8	92.1
SUBTOTAL		726	1049	1774	1765	6424	8189	6552	1191	5361
SUNSET DRIVE										
50+56	51+00	0.0	5.9	5.9	23.9	780.0	803.9	643.1	1.1	642.0
51+00	52+00	0.0	23.1	23.1	101.9	700.0	801.9	641.6	3.8	637.8
52+00	53+00	0.0	19.4	19.4	90.0	700.0	790.0	632.0	3.7	628.3
53+00	54+00	0.0	16.5	16.5	79.7	700.0	779.7	623.8	5.7	618.1
54+00	55+00	0.0	14.6	14.6	77.8	500.0	577.8	462.3	5.3	457.0
55+00	56+00	0.0	18.6	18.6	83.3	500.0	583.3	466.7	4.9	461.8
56+00	57+00	0.0	12.1	12.1	111.5	500.0	611.5	489.2	3.1	486.1
57+00	58+00	0.0	10.2	10.2	114.2	530.0	644.2	515.4	0.2	515.2
58+00	59+00	0.0	16.7	16.7	90.9	400.0	490.9	392.8	1.0	391.8
59+00	60+00	13.9	15.6	29.5	85.9	400.0	485.9	388.8	2.0	386.8
60+00	61+00	27.8	15.7	43.5	83.4	400.0	483.4	386.7	2.7	384.0
61+00	62+00	27.8	13.1	40.9	85.4	400.0	485.4	388.4	1.8	386.6
62+00	63+00	27.8	5.3	33.1	90.9	350.0	440.9	352.7	0.0	352.7
63+00	64+00	27.8	7.8	35.5	90.1	350.0	440.1	352.1	1.6	350.5
64+00	65+00	27.8	16.9	44.7	83.9	350.0	433.9	347.1	3.1	344.0
65+00	66+00	27.8	24.2	52.0	98.9	350.0	448.9	359.2	1.6	357.6
66+00	67+00	27.8	22.0	49.8	94.2	350.0	444.2	355.4	0.0	355.4
67+00	68+00	27.8	15.7	43.4	75.3	350.0	425.3	340.3	0.8	339.5
68+00	69+00	27.8	18.8	46.6	74.7	350.0	424.7	339.8	2.5	337.3
69+00	70+00	27.8	19.9	47.6	74.9	350.0	424.9	340.0	2.8	337.2
70+00	71+00	13.9	15.6	29.5	81.7	350.0	431.7	345.4	2.1	343.3
71+00	72+00	0.0	12.1	12.1	80.4	350.0	430.4	344.3	2.9	341.4
72+00	73+00	0.0	9.5	9.5	84.5	350.0	434.5	347.6	2.0	345.6
73+00	74+00	0.0	9.4	9.4	89.2	350.0	439.2	351.4	0.4	351.0
74+00	75+00	0.0	17.1	17.1	80.6	300.0	380.6	304.5	1.7	302.8
75+00	76+00	0.0	15.2	15.2	141.8	300.0	441.8	353.5	2.0	351.5
76+00	76+62	0.0	2.7	2.7	83.6	100.0	183.6	147.0	0.5	146.5
SUBTOTAL		306	394	699	2353	11410	13763	11012	60	10952
TOTALS		1482	1916	3396	5474	18165	23639	18914	1363	17552

EARTH EXCAVATION 5474 CU YD
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL 3396 CU YD
 AGGREGATE SUBGRADE IMPROVEMENT (ASI) 1482 CU YD
 EARTHWORK BALANCE 17552 CU YD EXCESS EARTH EXCAVATION

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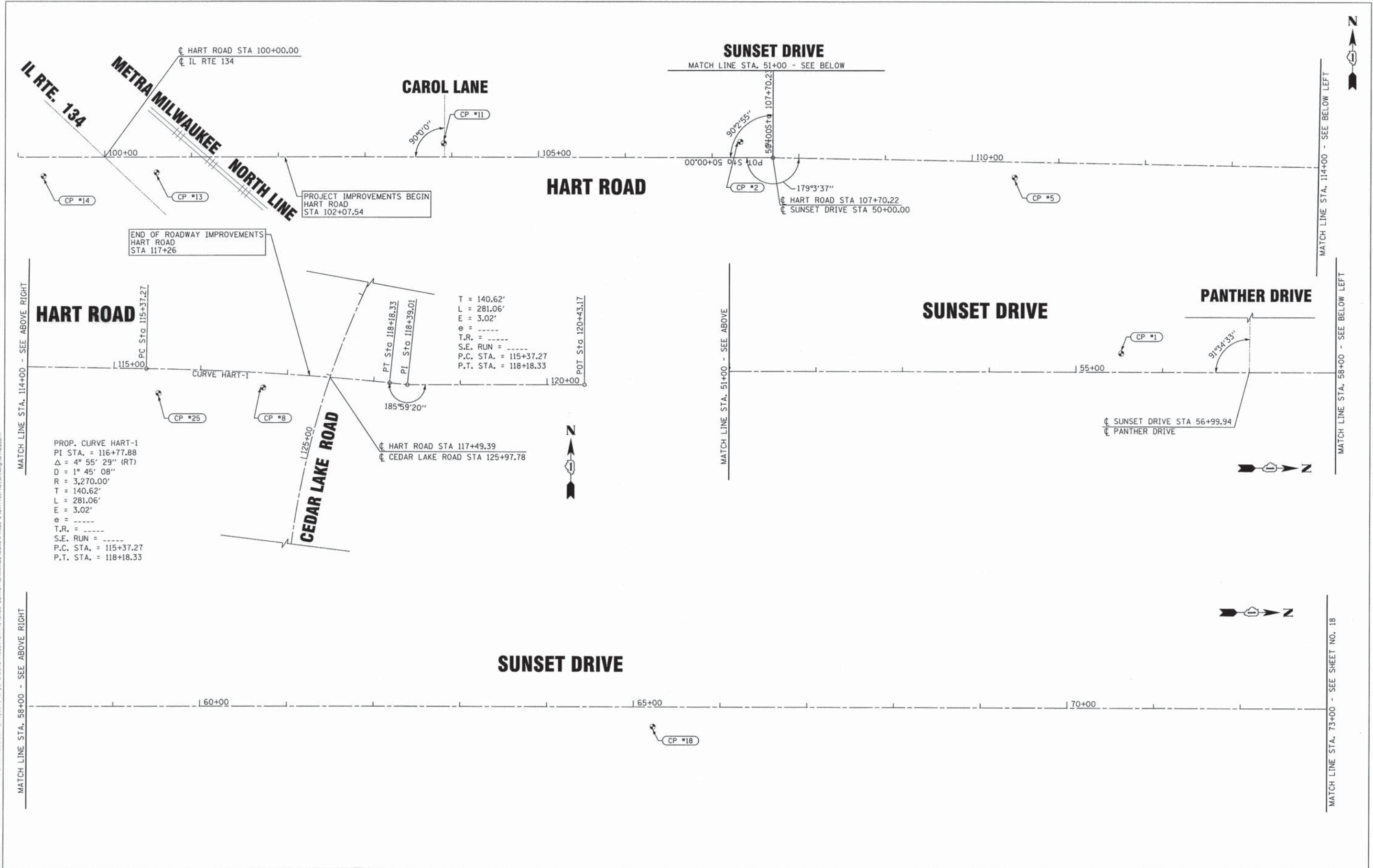
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DRAWN - MAC	REVISED - 8-13-13 PER VILLAGE
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749.PH2.SH.Schedules.shx

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	16
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-90034821		



MATCH LINE STA. 114+00 - SEE ABOVE RIGHT

MATCH LINE STA. 58+00 - SEE ABOVE RIGHT

MATCH LINE STA. 114+00 - SEE BELOW LEFT

MATCH LINE STA. 58+00 - SEE BELOW LEFT

MATCH LINE STA. 73+00 - SEE SHEET NO. 18

PROP. CURVE HART-1
 PI STA. = 116+77.88
 $\Delta = 4^{\circ} 55' 29''$ (RT)
 $D = 1^{\circ} 45' 08''$
 $R = 3,270.00'$
 $T = 140.62'$
 $L = 281.06'$
 $E = 3.02'$
 $e = \text{---}$
 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 115+37.27
 P.T. STA. = 118+18.33

$T = 140.62'$
 $L = 281.06'$
 $E = 3.02'$
 $e = \text{---}$
 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 115+37.27
 P.T. STA. = 118+18.33

SUNSET DRIVE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES

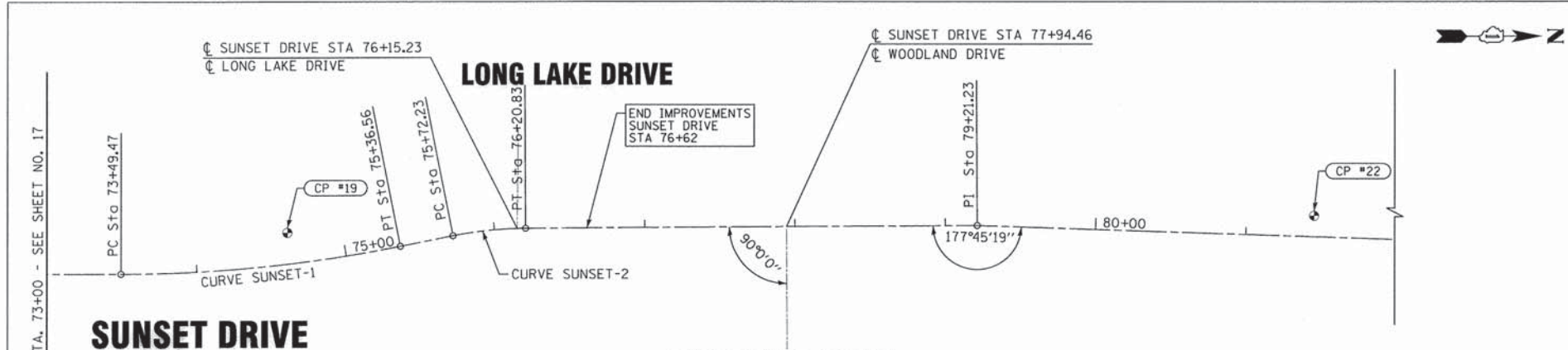
SCALE: 1"=50'
 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	17
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-900314821				

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CHECKED - RWL	REVISED -
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SUNSET DRIVE

PROP. CURVE SUNSET-1	PROP. CURVE SUNSET-2
PI STA. = 74+43.32	PI STA. = 75+96.61
Δ = 11° 16' 19" (LT)	Δ = 10° 55' 09" (RT)
D = 6° 01' 29"	D = 22° 28' 08"
R = 951.00'	R = 255.00'
T = 93.85'	T = 24.37'
L = 187.09'	L = 48.60'
E = 4.62'	E = 1.16'
e = -----	e = -----
T.R. = -----	T.R. = -----
S.E. RUN = -----	S.E. RUN = -----
P.C. STA. = 73+49.47	P.C. STA. = 75+72.23
P.T. STA. = 75+36.56	P.T. STA. = 76+20.83

WOODLAND DRIVE

Chain SUNSET contains:

S1 CUR SUNSET-1 CUR SUNSET-2 S2 S3 S4

Beginning chain SUNSET description

Point S1 N 2,072,869.41 E 1,048,129.79 Sta 50+00
 Course from S1 to PC SUNSET-1 N 0° 15' 40" E Dist 2,349.47

Curve Data

Curve SUNSET-1	P.I. Station	74+43 N	2,075,312.71 E	1,048,140.93
	Delta	11° 16' 19" (LT)		
	Degree	6° 01' 29"		
	Tangent	93.85		
	Length	187.09		
	Radius	951.00		
	External	4.62		
	Long Chord	186.79		
	Mid. Ord.	4.60		
	P.C. Station	73+49 N	2,075,218.86 E	1,048,140.50
	P.T. Station	75+37 N	2,075,404.83 E	1,048,123.00
	C.C.		2,075,223.19 E	1,047,189.51
	Back	= N 0° 15' 40" E		
	Ahead	= N 11° 00' 39" W		
	Chord Bear	= N 5° 22' 29" W		

Course from PT SUNSET-1 to PC SUNSET-2 N 11° 00' 39" W Dist 35.67

Curve Data

Curve SUNSET-2	P.I. Station	75+97 N	2,075,463.77 E	1,048,111.53
	Delta	10° 55' 09" (RT)		
	Degree	22° 28' 08"		
	Tangent	24.37		
	Length	48.60		
	Radius	255.00		
	External	1.16		
	Long Chord	48.52		
	Mid. Ord.	1.16		
	P.C. Station	75+72 N	2,075,439.84 E	1,048,116.19
	P.T. Station	76+21 N	2,075,488.14 E	1,048,111.50
	C.C.		2,075,488.55 E	1,048,366.50
	Back	= N 11° 00' 39" W		
	Ahead	= N 0° 05' 30" W		
	Chord Bear	= N 5° 33' 05" W		

Course from PT SUNSET-2 to S2 N 0° 05' 30" W Dist 300.40

Point S2 N 2,075,788.54 E 1,048,111.01 Sta 79+21
 Course from S2 to S3 N 2° 09' 10" E Dist 353.41
 Point S3 N 2,076,141.70 E 1,048,124.29 Sta 82+75
 Course from S3 to S4 N 0° 26' 46" E Dist 519.39
 Point S4 N 2,076,661.07 E 1,048,128.33 Sta 87+94

Ending chain SUNSET description

Chain HART contains:

H1 H2 H3 CUR HART-1 H4 H5

Beginning chain HART description

Point H1 N 2,072,876.24 E 1,047,062.82 Sta 97+03
 Course from H1 to H2 S 88° 53' 10" E Dist 182.06
 Point H2 N 2,072,872.70 E 1,047,244.85 Sta 98+85
 Course from H2 to H3 S 89° 47' 15" E Dist 885.08
 Point H3 N 2,072,869.41 E 1,048,129.92 Sta 107+70
 Course from H3 to PC HART-1 S 88° 50' 52" E Dist 767.04

Curve Data

Curve HART-1	P.I. Station	116+78 N	2,072,851.16 E	1,049,037.39
	Delta	4° 55' 29" (RT)		
	Degree	1° 45' 08"		
	Tangent	140.62		
	Length	281.06		
	Radius	3,270.00		
	External	3.02		
	Long Chord	280.97		
	Mid. Ord.	3.02		
	P.C. Station	115+37 N	2,072,853.99 E	1,048,896.81
	P.T. Station	118+18 N	2,072,836.28 E	1,049,177.22
	C.C.		2,069,584.65 E	1,048,831.06
	Back	= S 88° 50' 52" E		
	Ahead	= S 83° 55' 24" E		
	Chord Bear	= S 86° 23' 08" E		

Course from PT HART-1 to H4 S 83° 55' 24" E Dist 20.68

Point H4 N 2,072,834.09 E 1,049,197.79 Sta 118+39
 Course from H4 to H5 S 89° 54' 44" E Dist 204.16
 Point H5 N 2,072,833.77 E 1,049,401.95 Sta 120+43

Ending chain HART description

CONTROL POINTS

CP 1	N = 2073421.678000	E = 1048110.62300	ELEVATION = 770.08
CP 2	N = 2072887.788153	E = 1048092.419382	ELEVATION = 782.31
CP 5	N = 2072845.960071	E = 1048408.756709	ELEVATION = 773.90
CP 8	N = 2072831.469311	E = 1049031.532098	ELEVATION = 777.91
CP 11	N = 2072886.520773	E = 1047750.552531	ELEVATION = 792.19
CP 13	N = 2072854.429496	E = 1047419.387438	ELEVATION = 786.65
CP 14	N = 2072850.754934	E = 1047289.057643	ELEVATION = 788.71
CP 18	N = 2074391.759247	E = 1048159.422369	ELEVATION = 762.41
CP 19	N = 2075329.686790	E = 1048113.495305	ELEVATION = 760.42
CP 22	N = 2076012.609274	E = 1048105.476814	ELEVATION = 751.54
CP 25	N = 2072825.547298	E = 1048910.676664	ELEVATION = 777.80

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - BR-000221 - EXPIRES 4/30/2015
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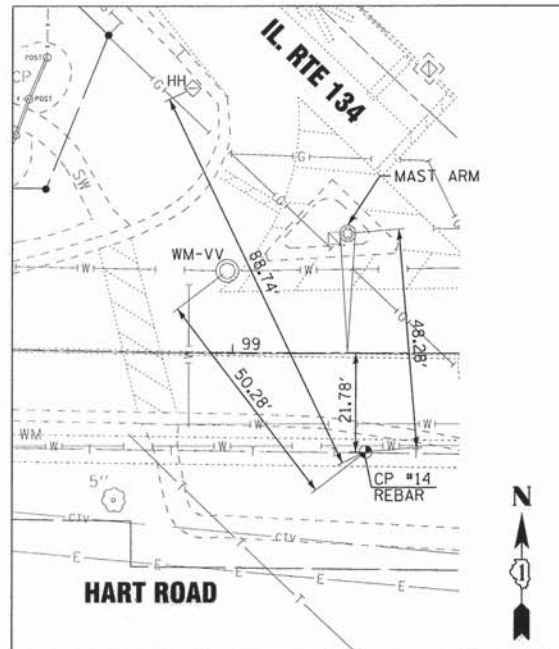
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

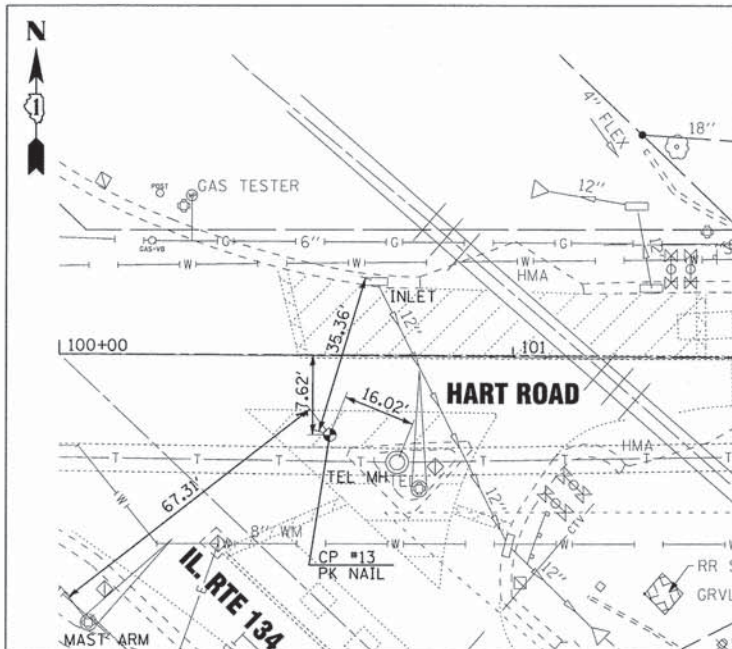
ALIGNMENT AND TIES

SCALE: 1"=50'
 STA. TO STA.

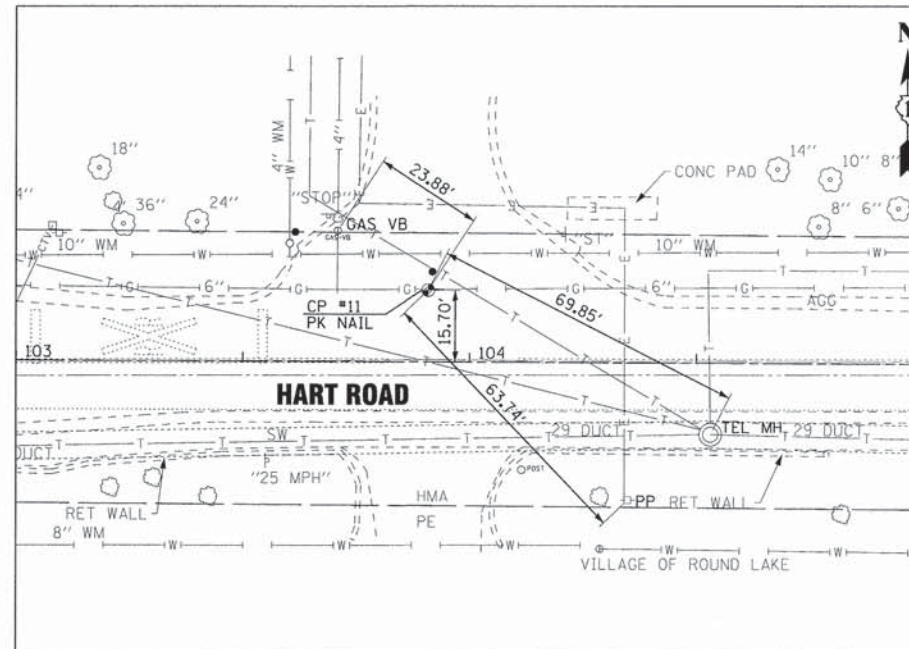
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0201	00-00025-00-FP	LAKE	98	18
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT M-900314821	



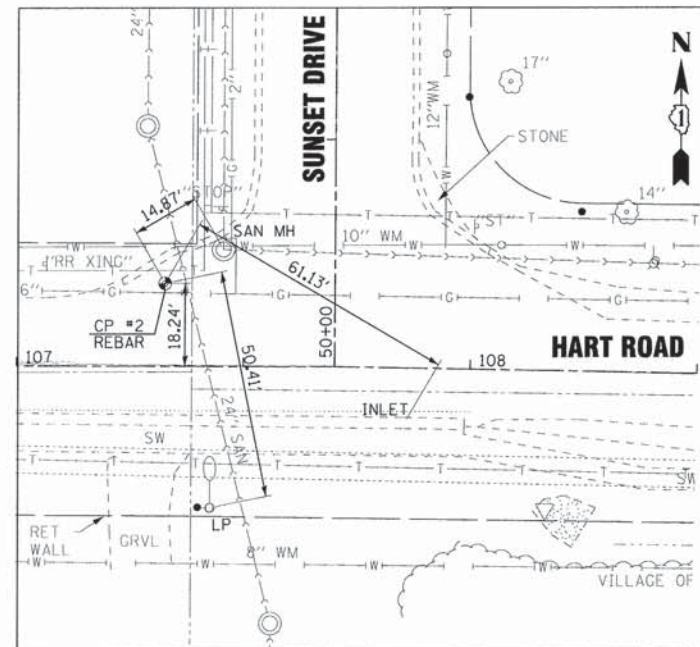
CP #14 STA 99+29.4, 21.78' RT
 EL. 788.71
 N = 2072850.754934 E = 1047289.057643



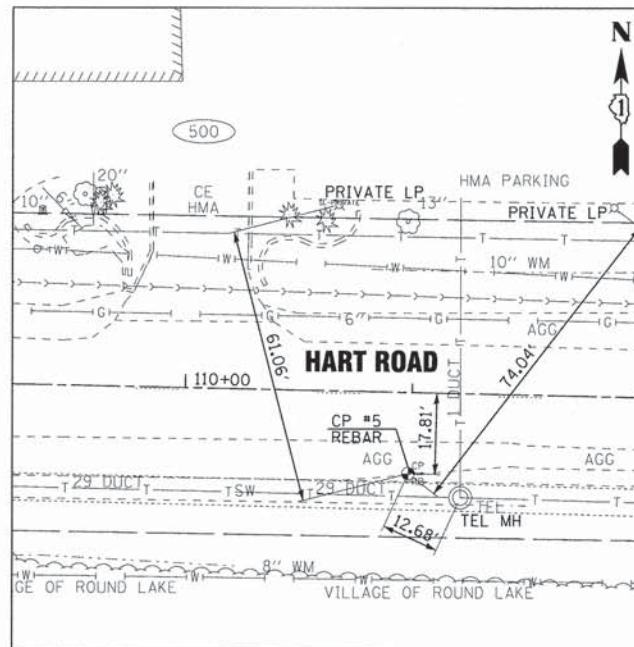
CP #13 STA 100+59.8, 17.62' RT
 EL. 786.65
 N = 2072854.429496 E = 1047419.387438



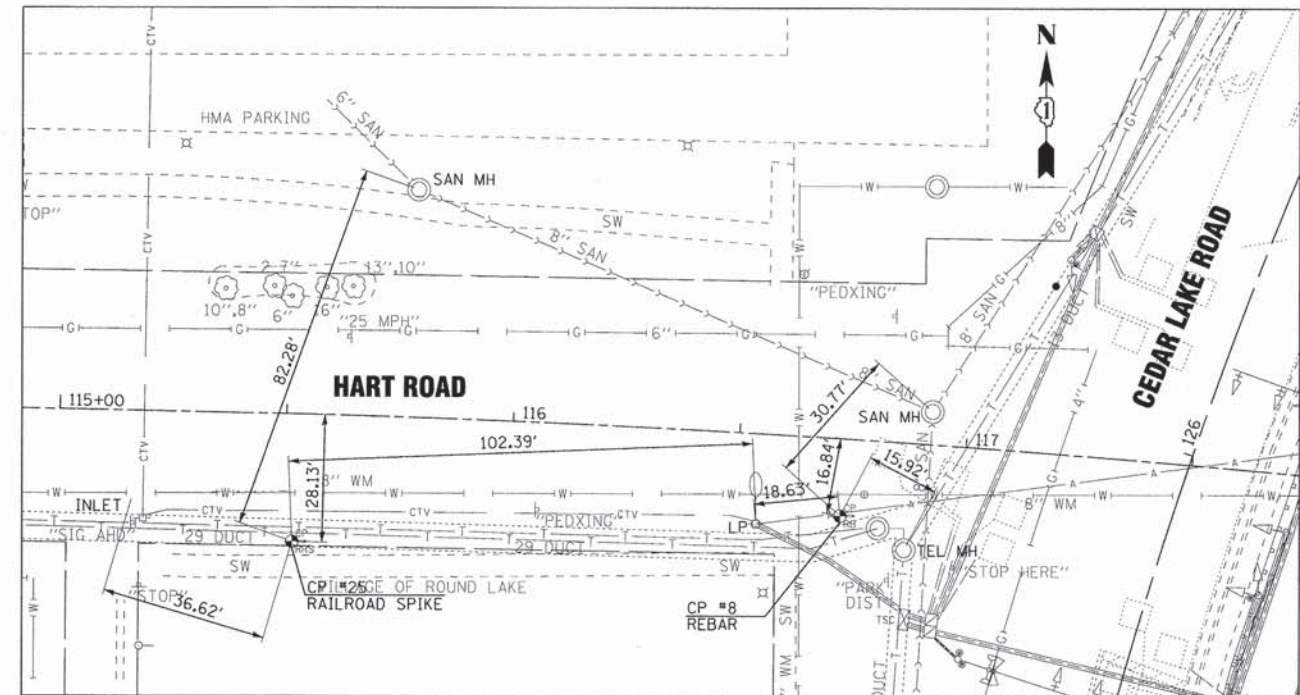
CP #11 STA 103+90.8, 15.7' LT
 EL. 792.19
 N = 2072886.520773 E = 1047750.552531



CP #2 STA 107+32.7, 18.24' LT
 EL. 782.31
 N = 2072887.788153 E = 1048092.419382



CP #5 STA 110+49.4, 17.84' RT
 EL. 773.90
 N = 2072845.960071 E = 1048408.756709



CP #25 STA 115+51.8, 28.13' RT
 EL. 777.81
 N = 2072825.547298 E = 1048910.676664

CP #8 STA 116+73.2, 17.00' RT
 EL. 777.91
 N = 2072831.469311 E = 1049031.532098

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 LICENSE NO. 184-000277 - EXPIRES 4/30/2015
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DESIGNED - DSH	REVISED -
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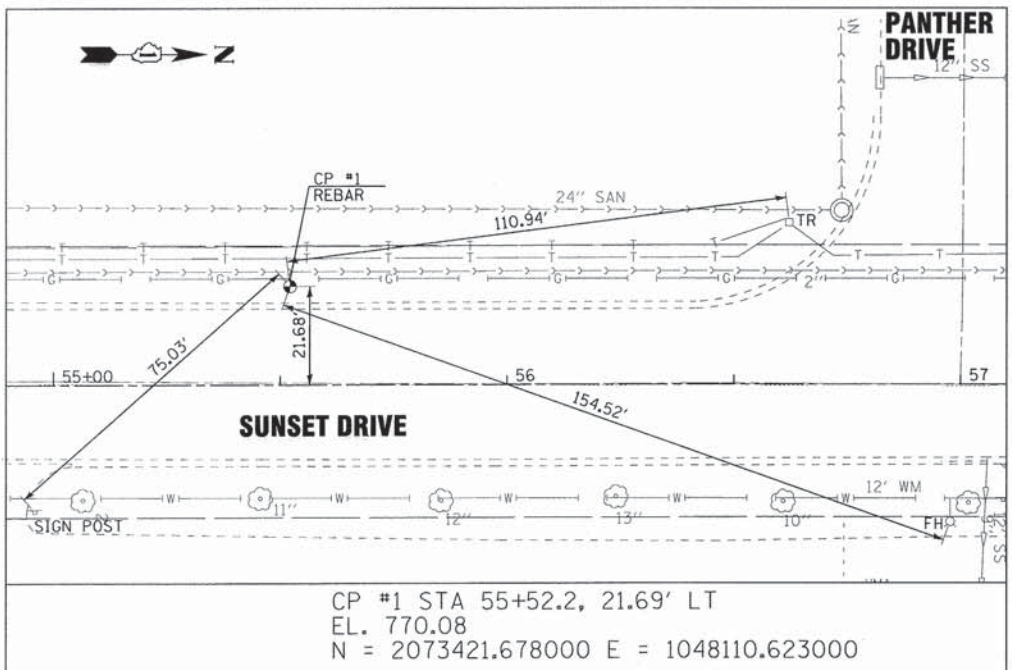
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND TIES

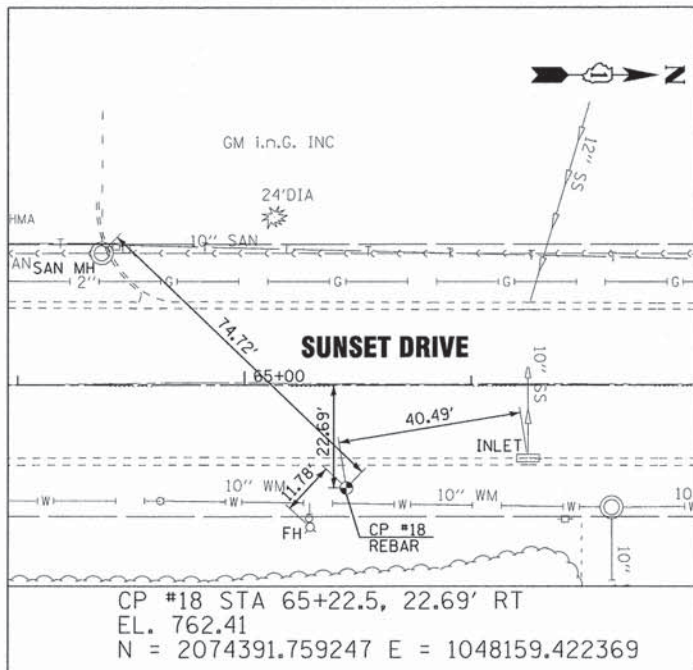
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STA. TO STA.

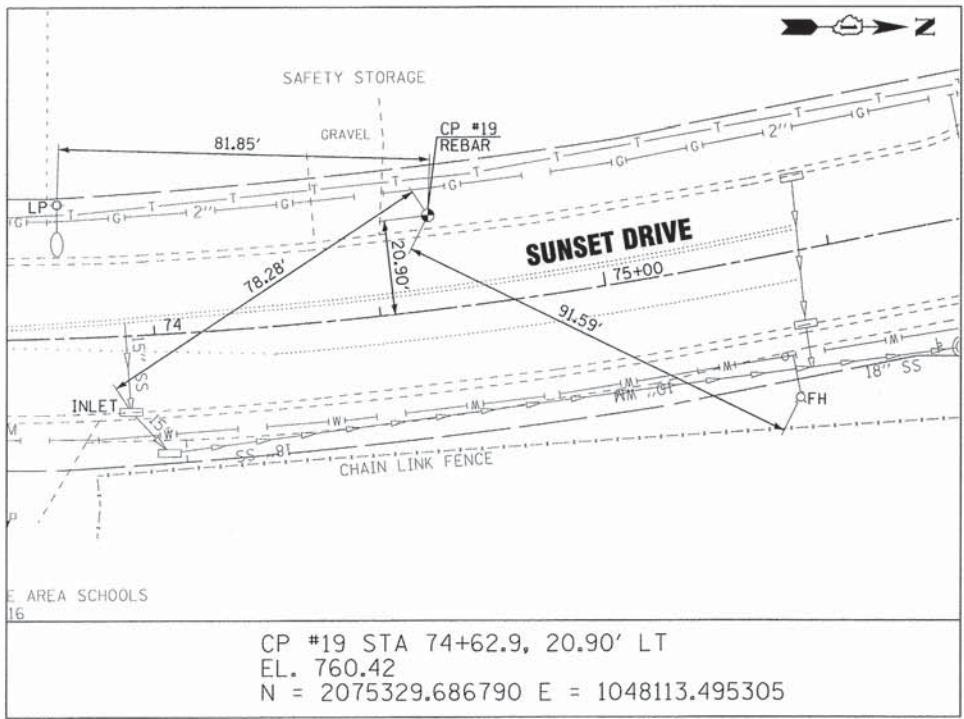
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-90034821				



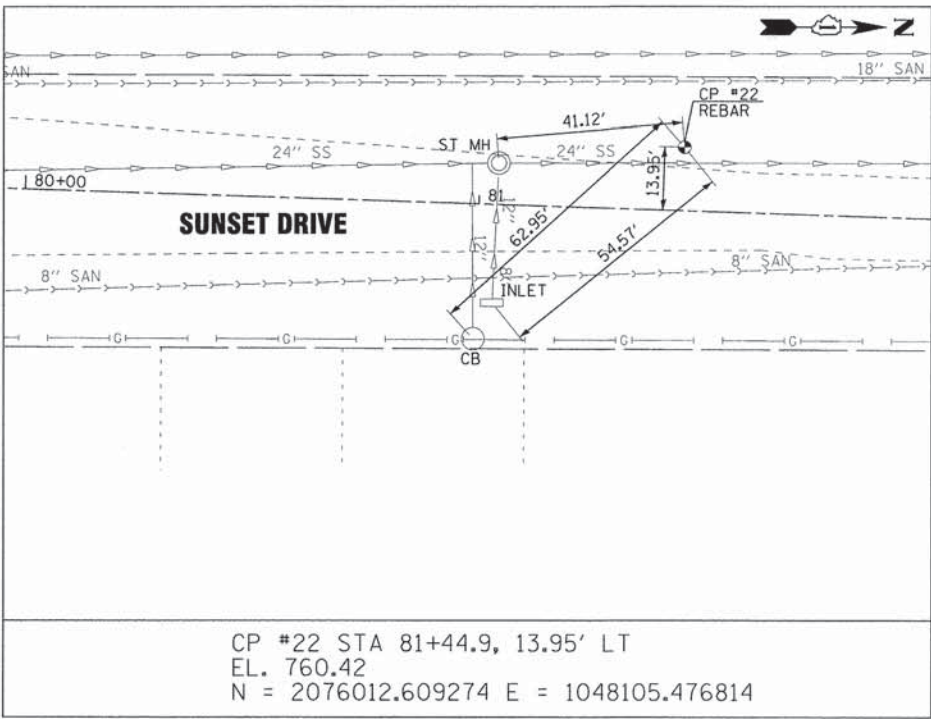
CP #1 STA 55+52.2, 21.69' LT
 EL. 770.08
 N = 2073421.678000 E = 1048110.623000



CP #18 STA 65+22.5, 22.69' RT
 EL. 762.41
 N = 2074391.759247 E = 1048159.422369



CP #19 STA 74+62.9, 20.90' LT
 EL. 760.42
 N = 2075329.686790 E = 1048113.495305



CP #22 STA 81+44.9, 13.95' LT
 EL. 760.42
 N = 2076012.609274 E = 1048105.476814

DESIGNED BY: BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 38-00217, EXPIRES 7/31/2015
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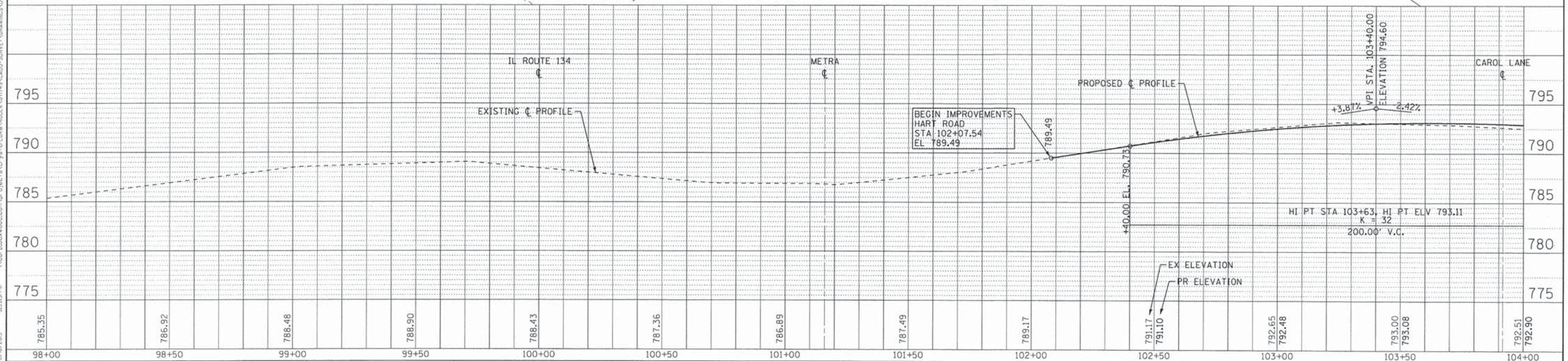
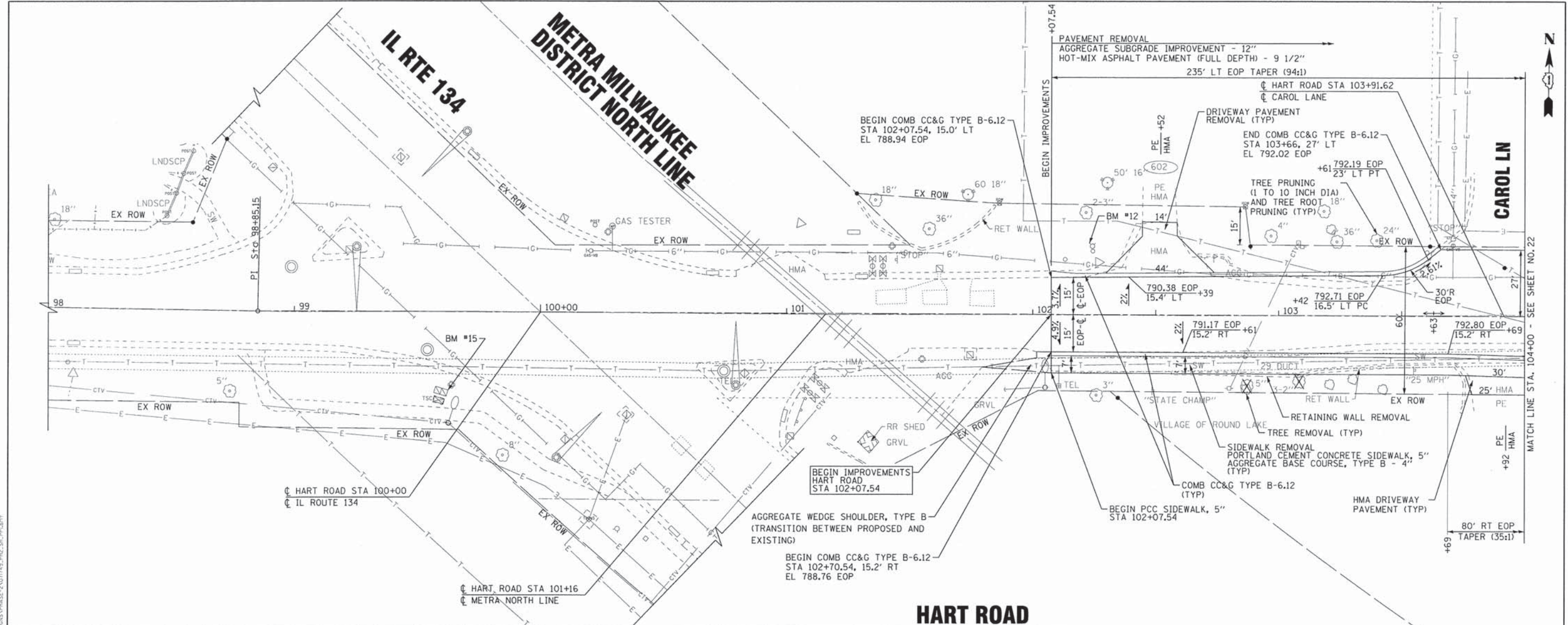


DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749-PH2-SH-Align&Ties2.dwg

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES
 SCALE: 1"=20'
 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	20
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



CONTRACT NO. 08-0021-10
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PROJECT NO. 08-0021-10
 DRAWING NO. 08-0021-10-PP1
 DATE 06/20/13
 FILE 071749_PH2_SH_P1.shx



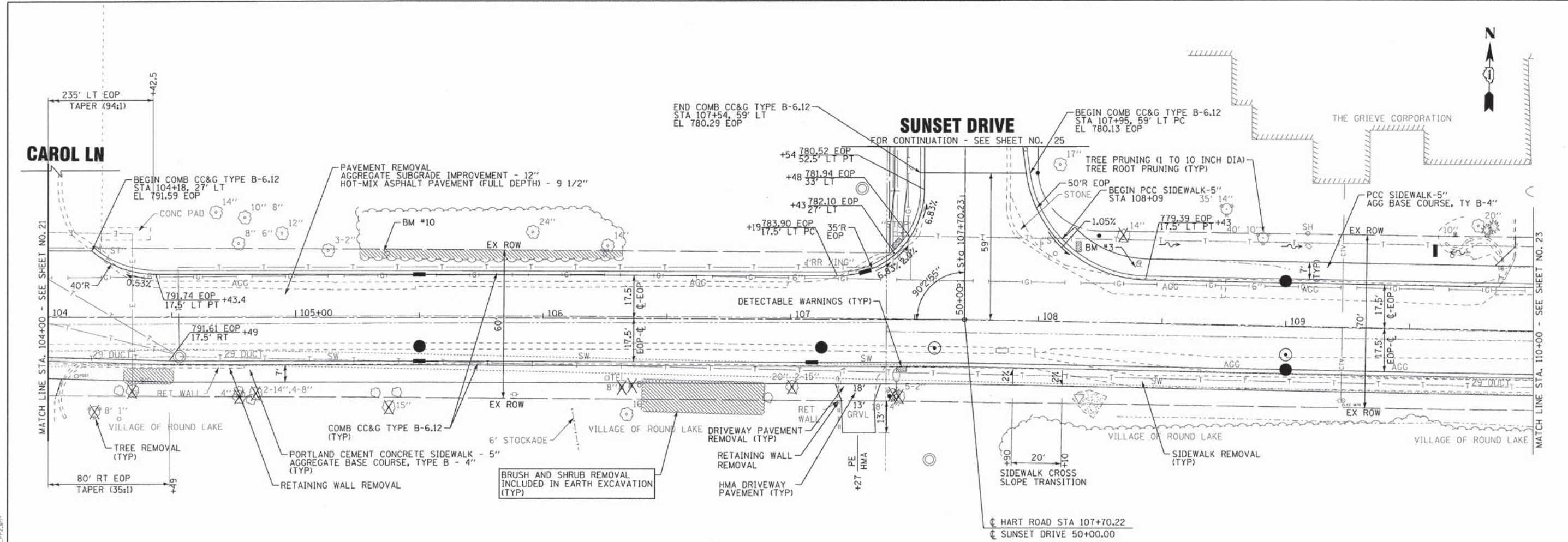
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DRAWN - CJC	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

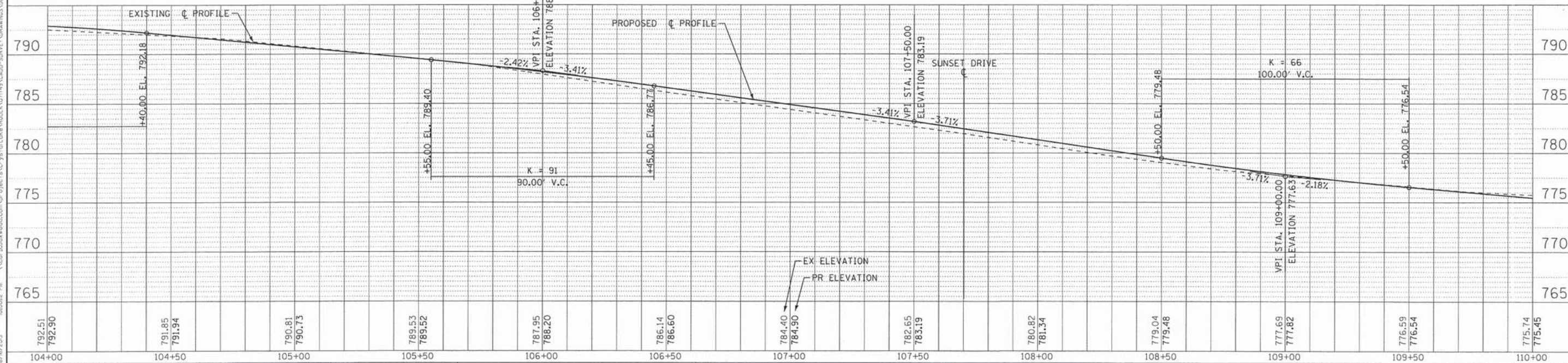
**PLAN & PROFILE
HART ROAD**

SCALE: H: 1"=20' V: 1"=5'
STA. 98+00 TO STA. 104+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	21
C-91-070-10	CONTRACT NO. 63868			FED. AID PROJECT W-90034821



HART ROAD



DESIGNED - DSH	REVISED -
DRAWN - CJC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_PP2.sht

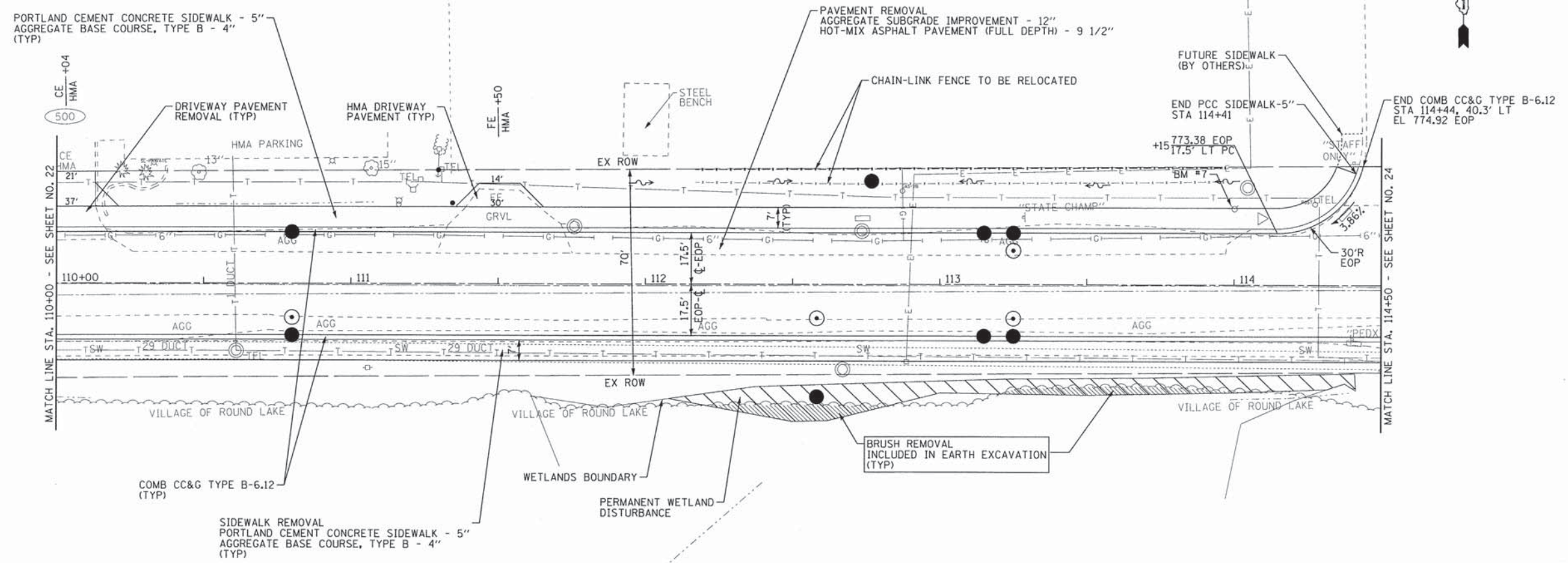
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE HART ROAD

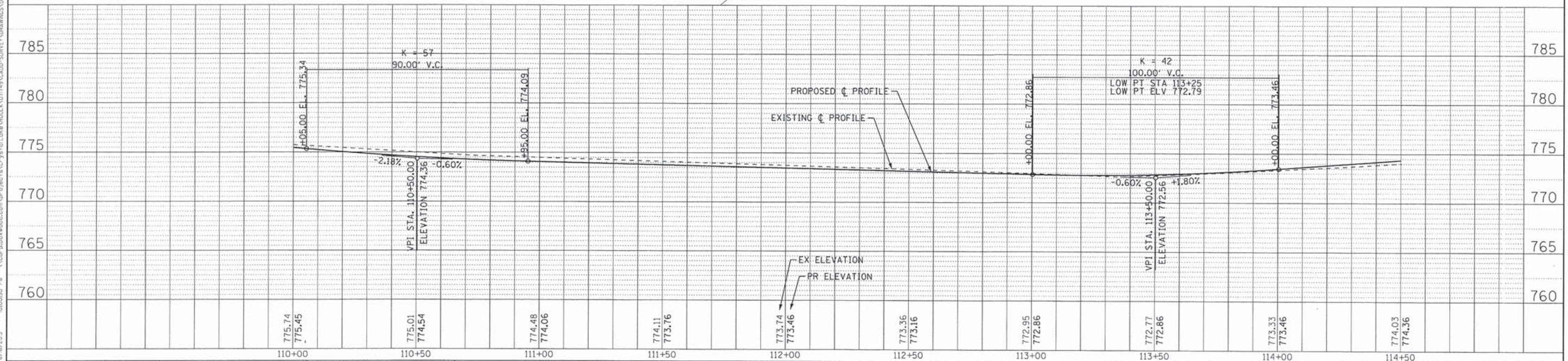
SCALE: H: 1"=20' V: 1"=5'
STA. 104+00 TO STA. 110+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	22
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

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 LICENSE NO. 184-00221 - EXPIRES 7/30/2015
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HART ROAD



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DRAWN - CJC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749.PH2.SH.PP3.sht

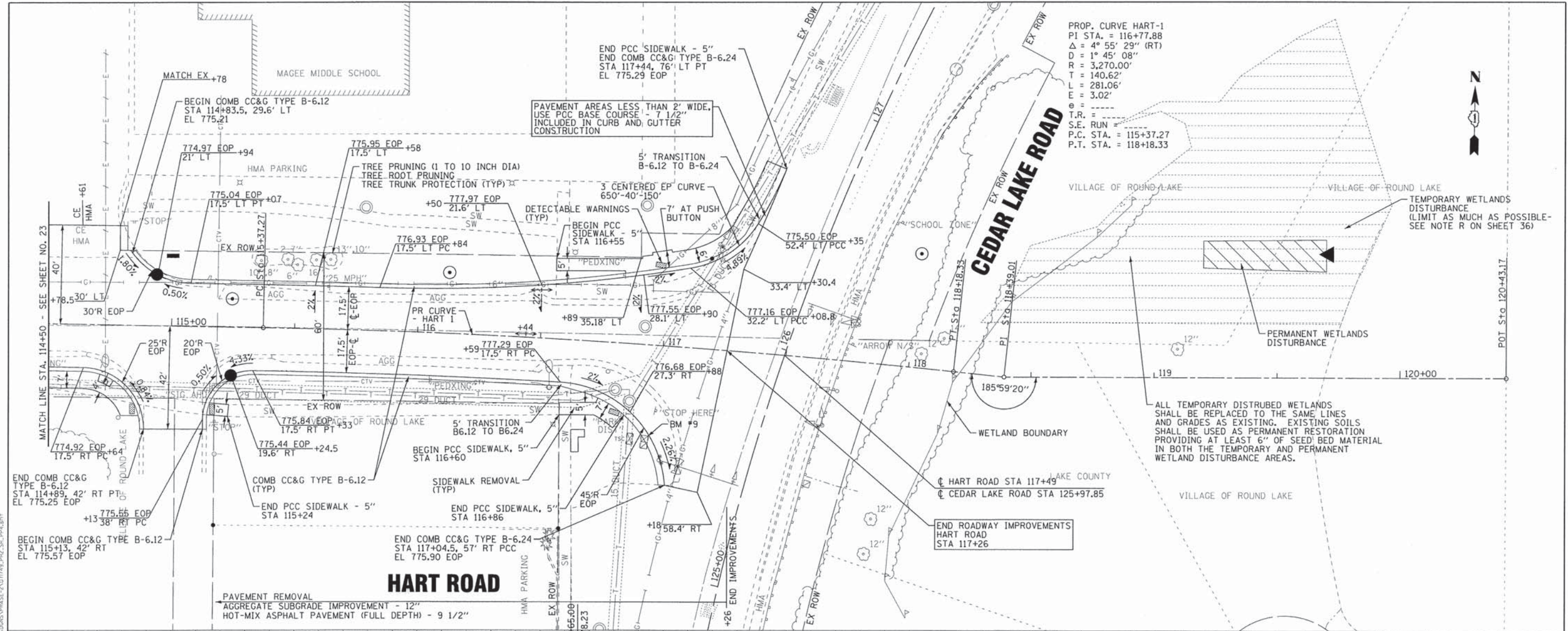
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
HART ROAD

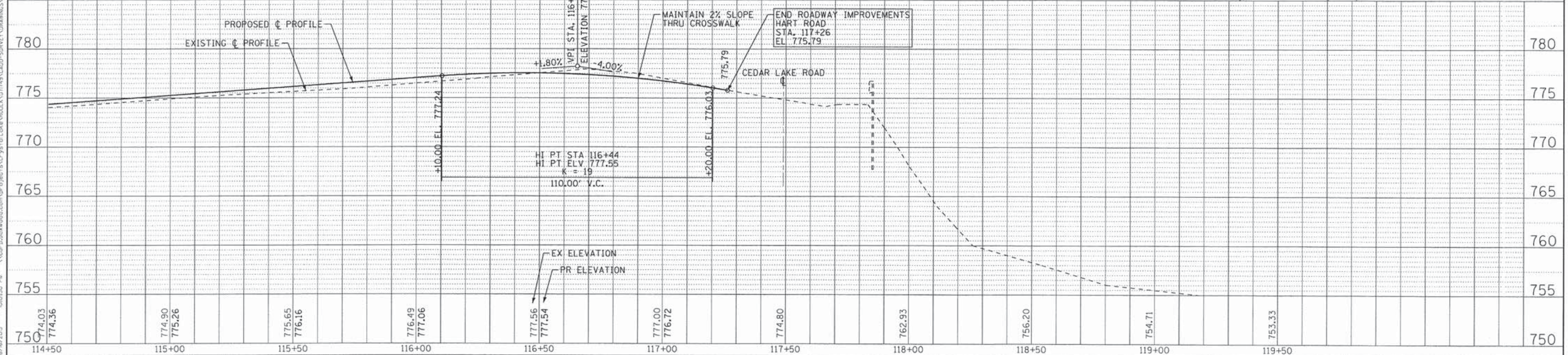
SCALE: H: 1"=20' V: 1"=5'

STA. 110+00 TO STA. 114+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	23
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-90034821		



PROP. CURVE HART-1
 PI STA. = 116+77.88
 $\Delta = 4^\circ 55' 29''$ (RT)
 $D = 1^\circ 45' 08''$
 $R = 3,270.00'$
 $T = 140.62'$
 $L = 281.06'$
 $E = 3.02'$
 $e = \text{---}$
 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 115+37.27
 P.T. STA. = 118+18.33



DESIGNED - DSH	REVISED -
DRAWN - CJC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_PP4.sht

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

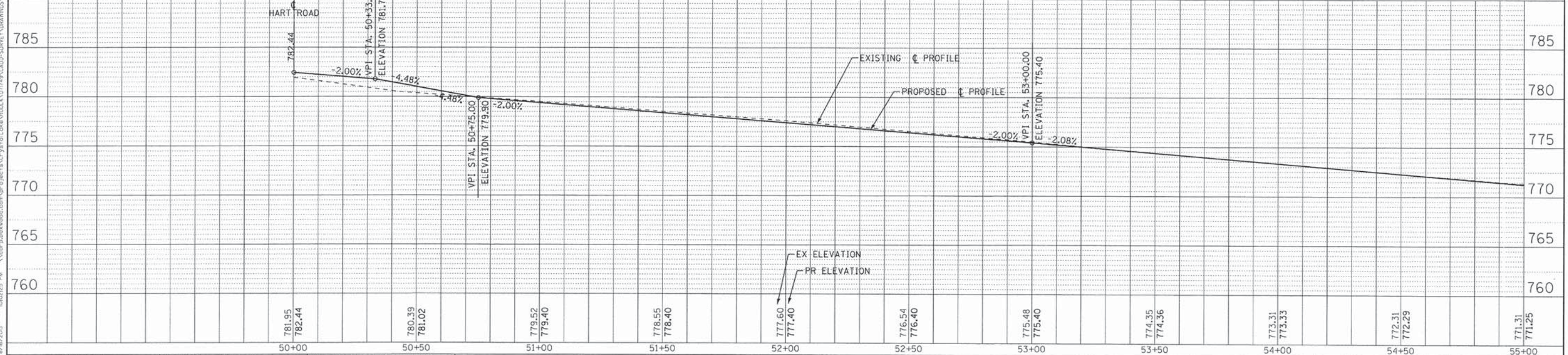
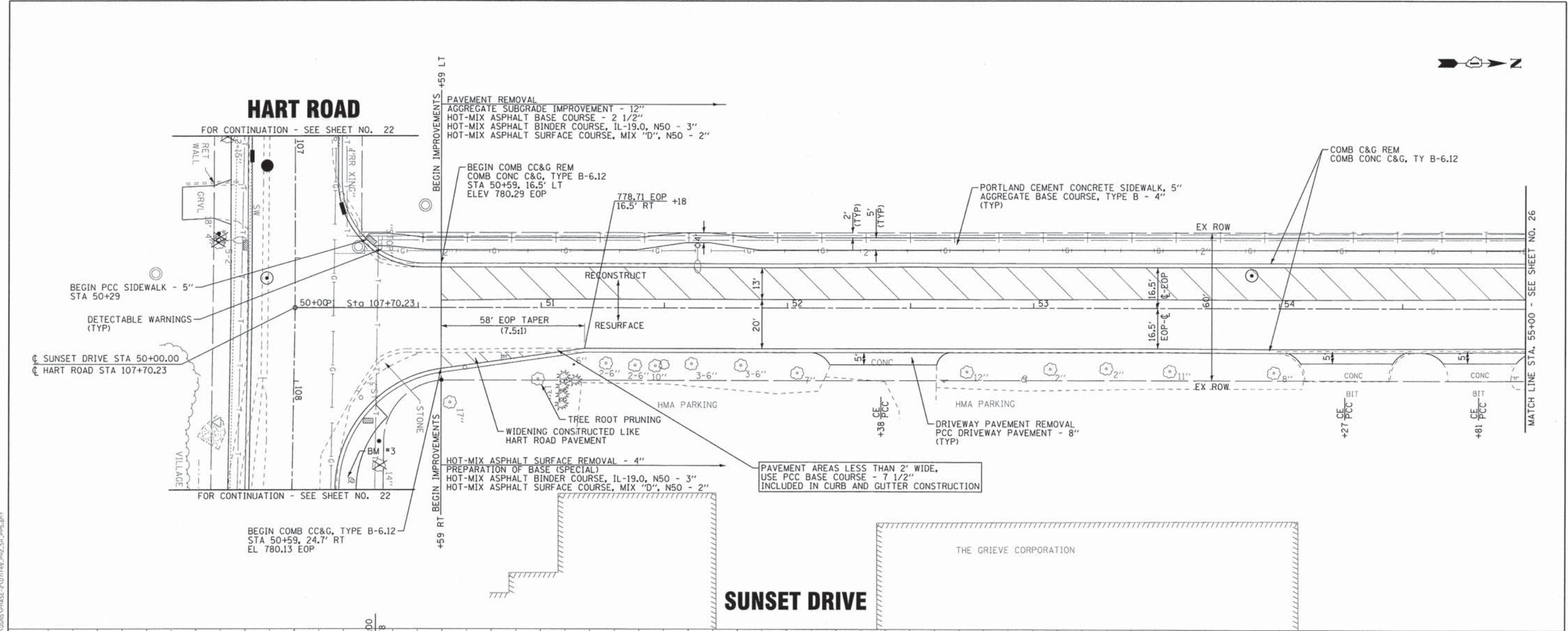
PLAN & PROFILE
 HART ROAD

SCALE: H: 1"=20' V: 1"=5'

STA. 114+50 TO STA. 119+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	24
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-90034821				

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 230 N. LAKE STREET, SUITE 200, LAKE COUNTY, IL 60150



DESIGNED - DSH	REVISED - 8-13-13 PER VILLAGE
DRAWN - CJC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2.SH.PP5.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

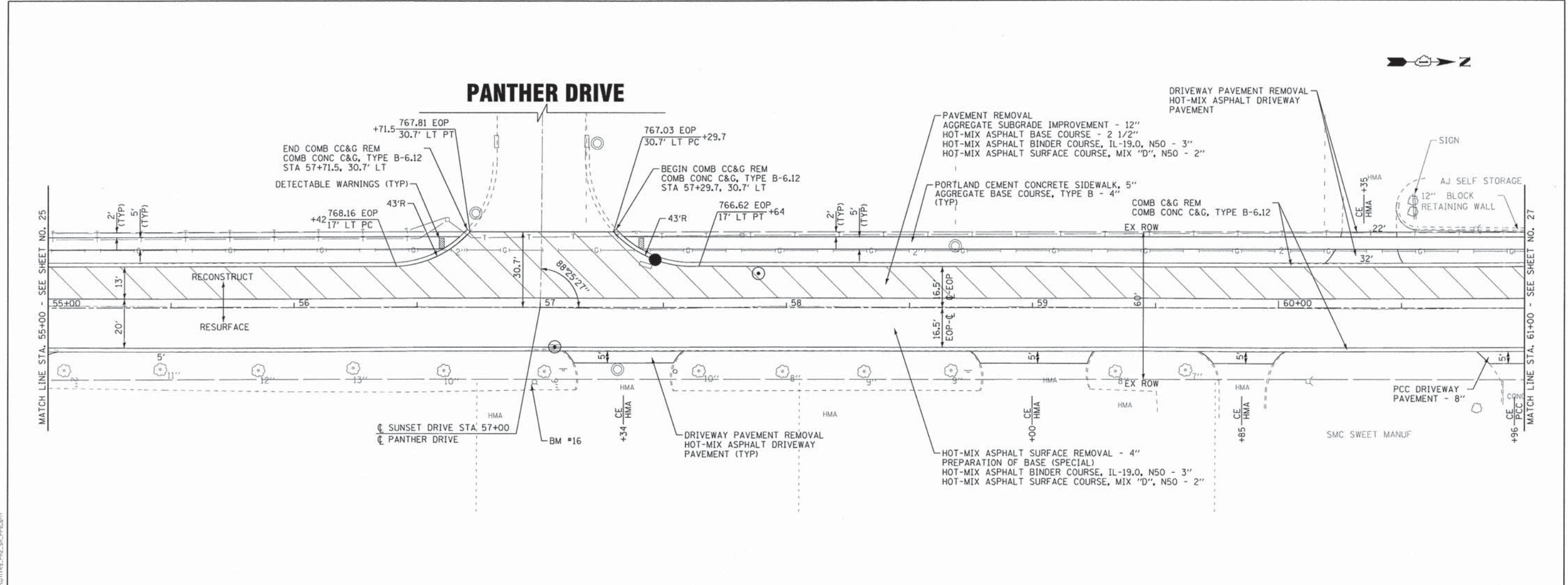
**PLAN & PROFILE
SUNSET DRIVE**

SCALE: H: 1"=20' V: 1"=5'

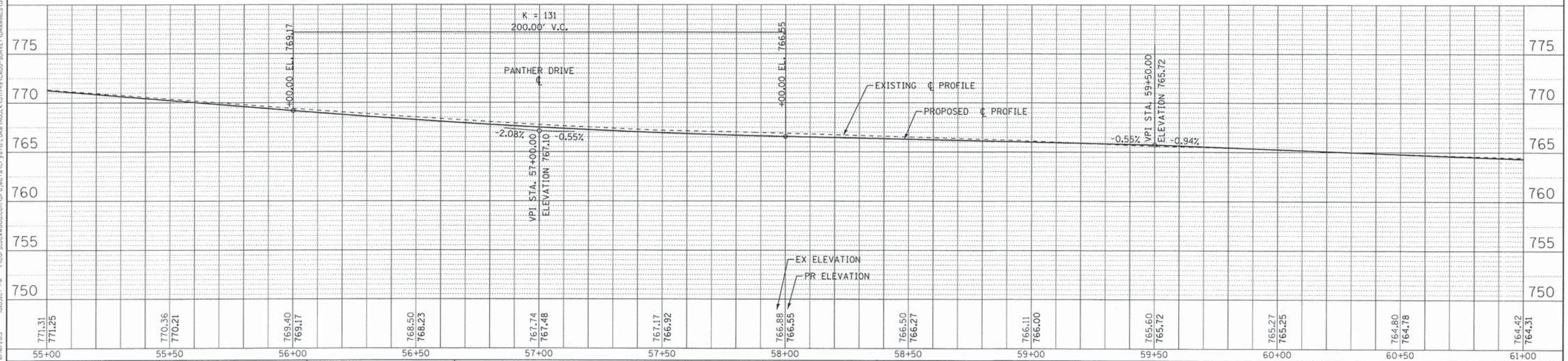
STA. 50+00 TO STA. 55+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	25
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

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 PROJECT: 071749 PH2 SH PP5 SHT 25
 DATE: 06/20/13
 DRAWN: CJC
 CHECKED: RWL
 DESIGNED: DSH
 FILE: 071749_PH2.SH.PP5.sht



SUNSET DRIVE



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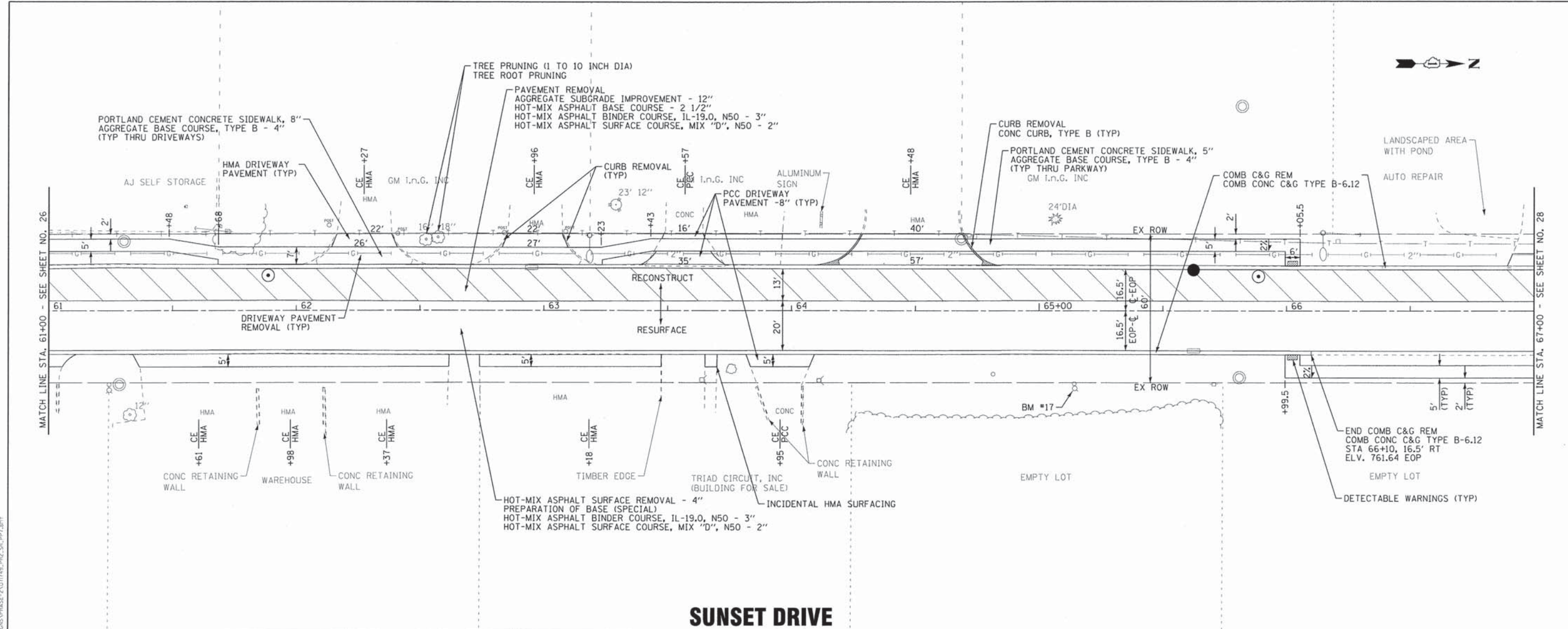


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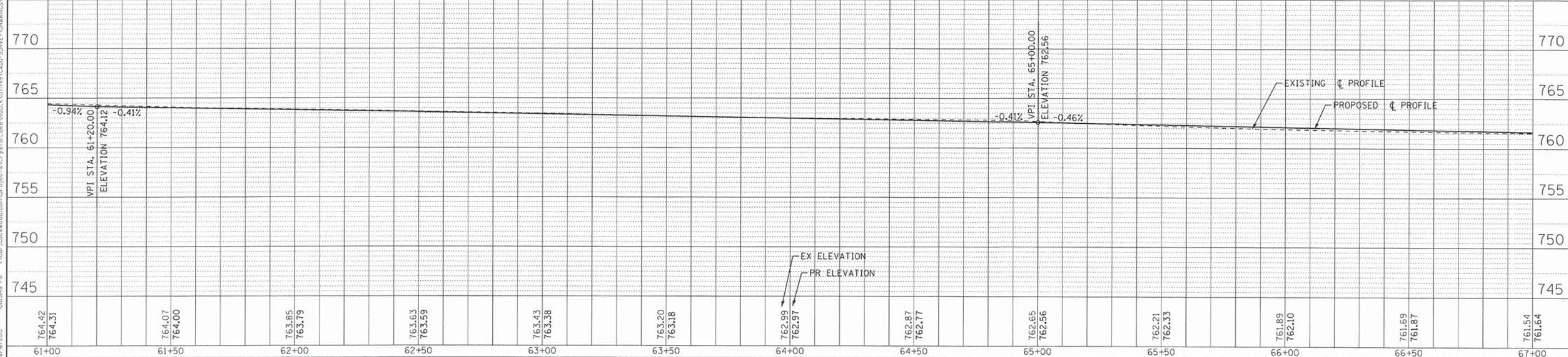
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
SUNSET DRIVE
 SCALE: H: 1"=20' V: 1"=5'
 STA. 55+00 TO STA. 61+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	26
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				



SUNSET DRIVE



DESIGNED - DSH	REVISED -
DRAWN - CJC	REVISED -
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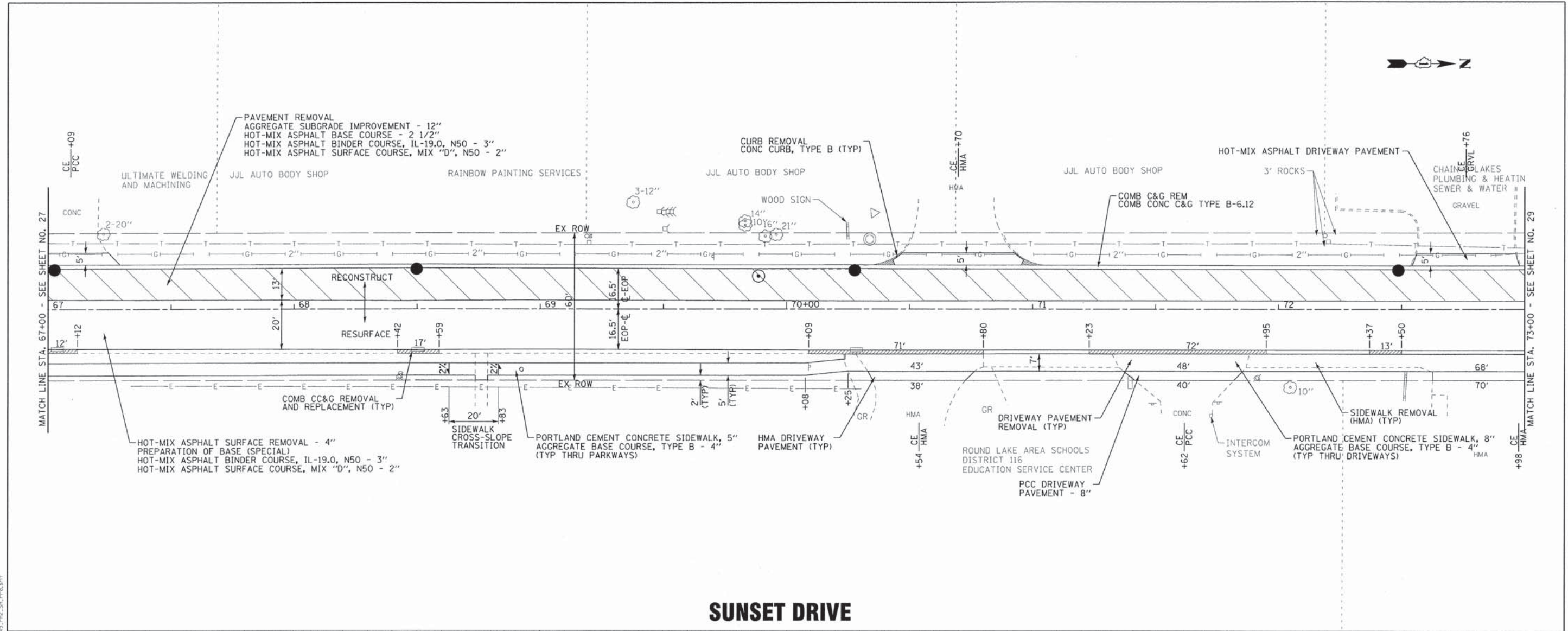
**PLAN & PROFILE
SUNSET DRIVE**

SCALE: H: 1"=20' V: 1"=5'

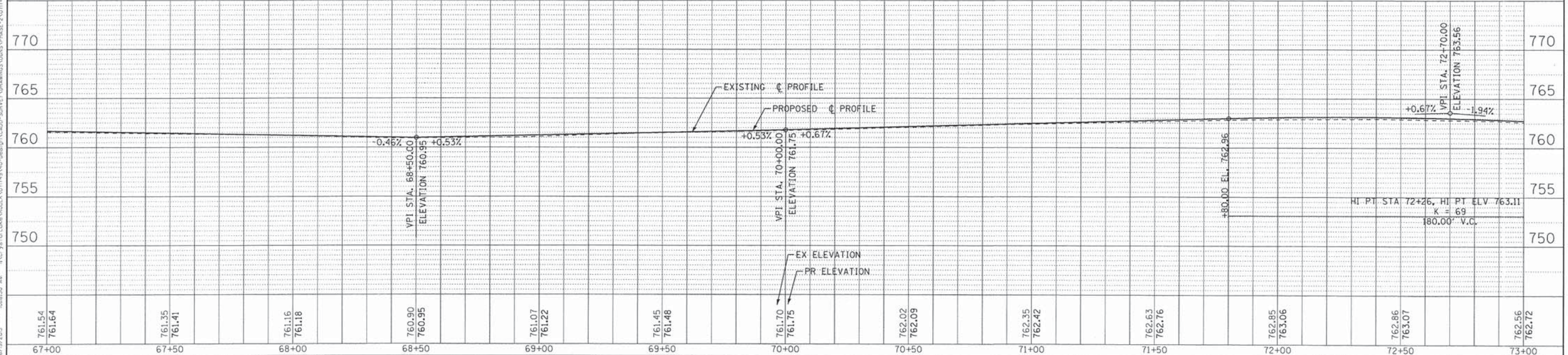
STA. 61+00 TO STA. 67+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	27
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

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 2304ab 8/26/2013 000348 PH



SUNSET DRIVE



PROJECT: 0012 BY: BAXTER & WOODMAN, INC. DATE: 06/20/13
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CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_PP8.sht

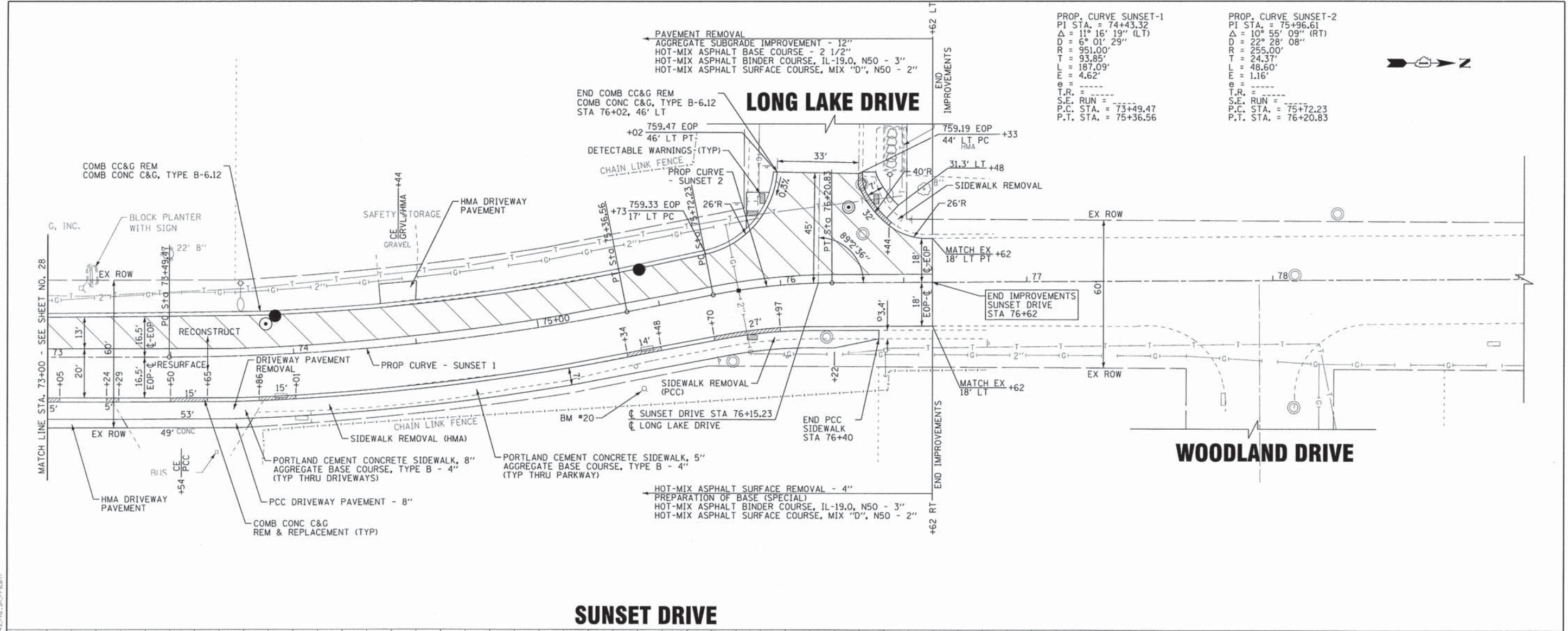
STATE OF ILLINOIS
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PLAN & PROFILE
SUNSET DRIVE

SCALE: H: 1"=20' V: 1"=5'

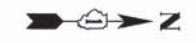
STA. 67+00 TO STA. 73+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	28
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-90034821		

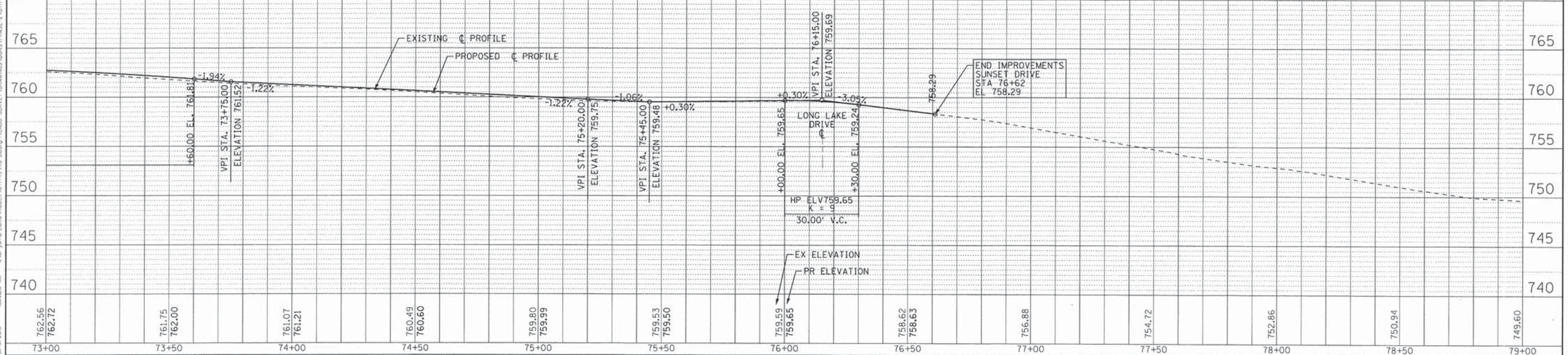


PROP. CURVE SUNSET-1
 PI STA. = 74+43.32
 $\Delta = 11^\circ 16' 19''$ (LT)
 $D = 6^\circ 01' 29''$
 $R = 951.00'$
 $T = 93.85'$
 $L = 187.09'$
 $E = 4.62'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 73+49.47
 P.T. STA. = 75+36.56

PROP. CURVE SUNSET-2
 PI STA. = 75+96.61
 $\Delta = 10^\circ 55' 09''$ (RT)
 $D = 22^\circ 28' 08''$
 $R = 255.00'$
 $T = 24.37'$
 $L = 48.60'$
 $E = 1.16'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 75+72.23
 P.T. STA. = 76+20.83



SUNSET DRIVE



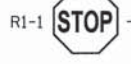
DESIGNED - DSH	REVISED -
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CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_PP9.sht

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SUNSET DRIVE		F.A.J. RTE. 0201	SECTION 00-00025-00-FP	COUNTY LAKE	TOTAL SHEETS 98	SHEET NO. 29
SCALE: H: 1"=20' V: 1"=5'		STA. 73+00 TO STA. 79+00		CONTRACT NO. 63868 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821		

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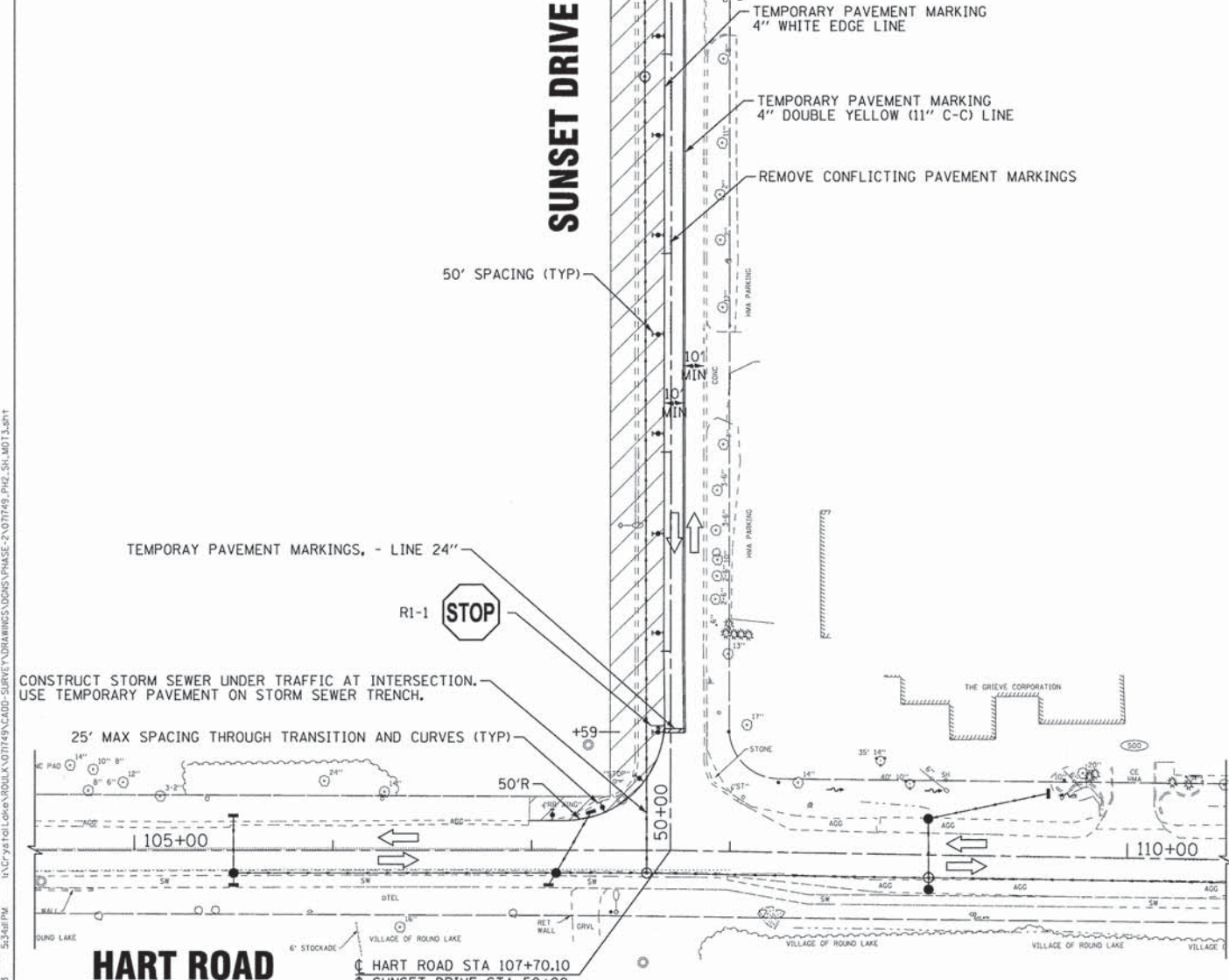
PANTHER DRIVE



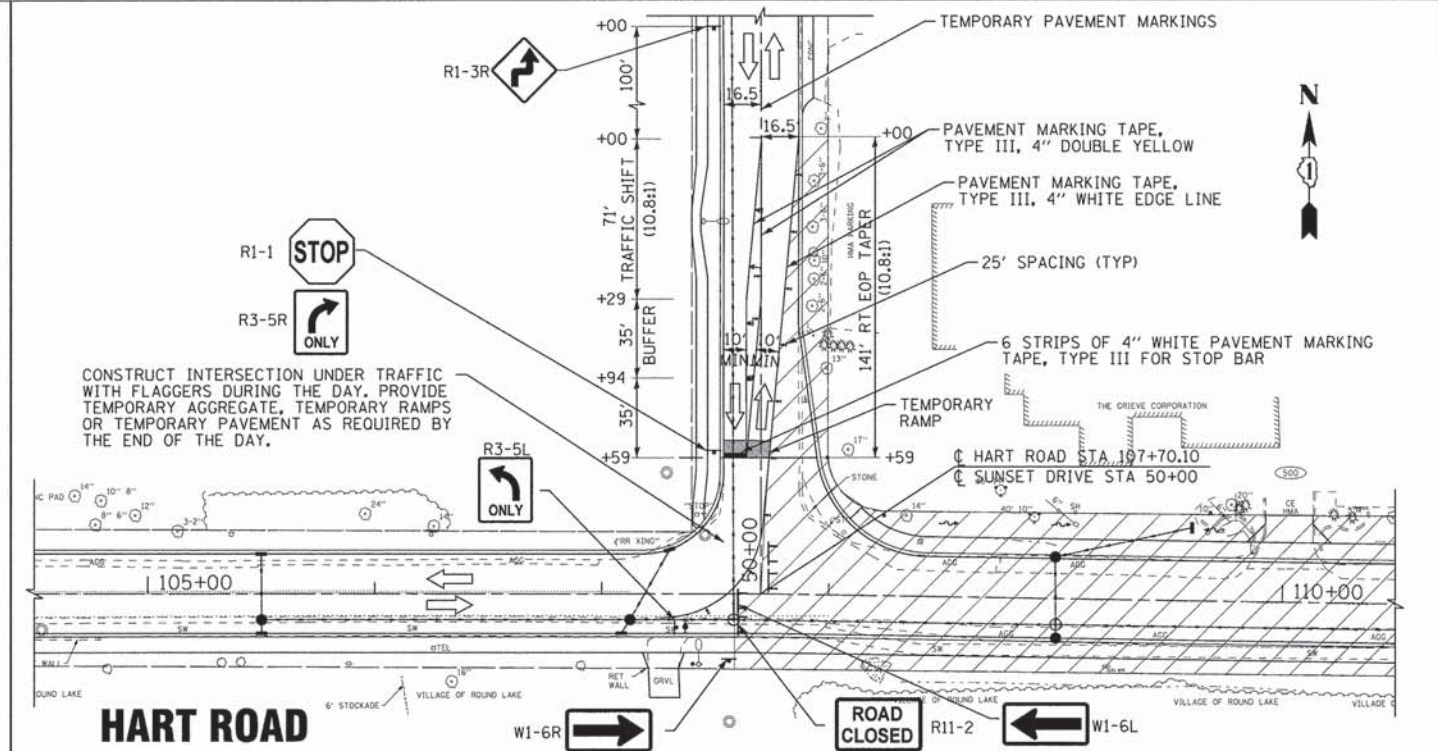
LEGEND

- |— BARRICADE, TYPE III WITH 2 FLASHING LIGHTS AND SIGNS AS NOTED.
- |— TYPE II BARRICADE OR DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- |— DIRECTION INDICATOR BARRICADE
- |— SIGN MOUNTED ABOVE BARRICADE OR ON PORTABLE SUPPORT
- ▨ WORK AREA

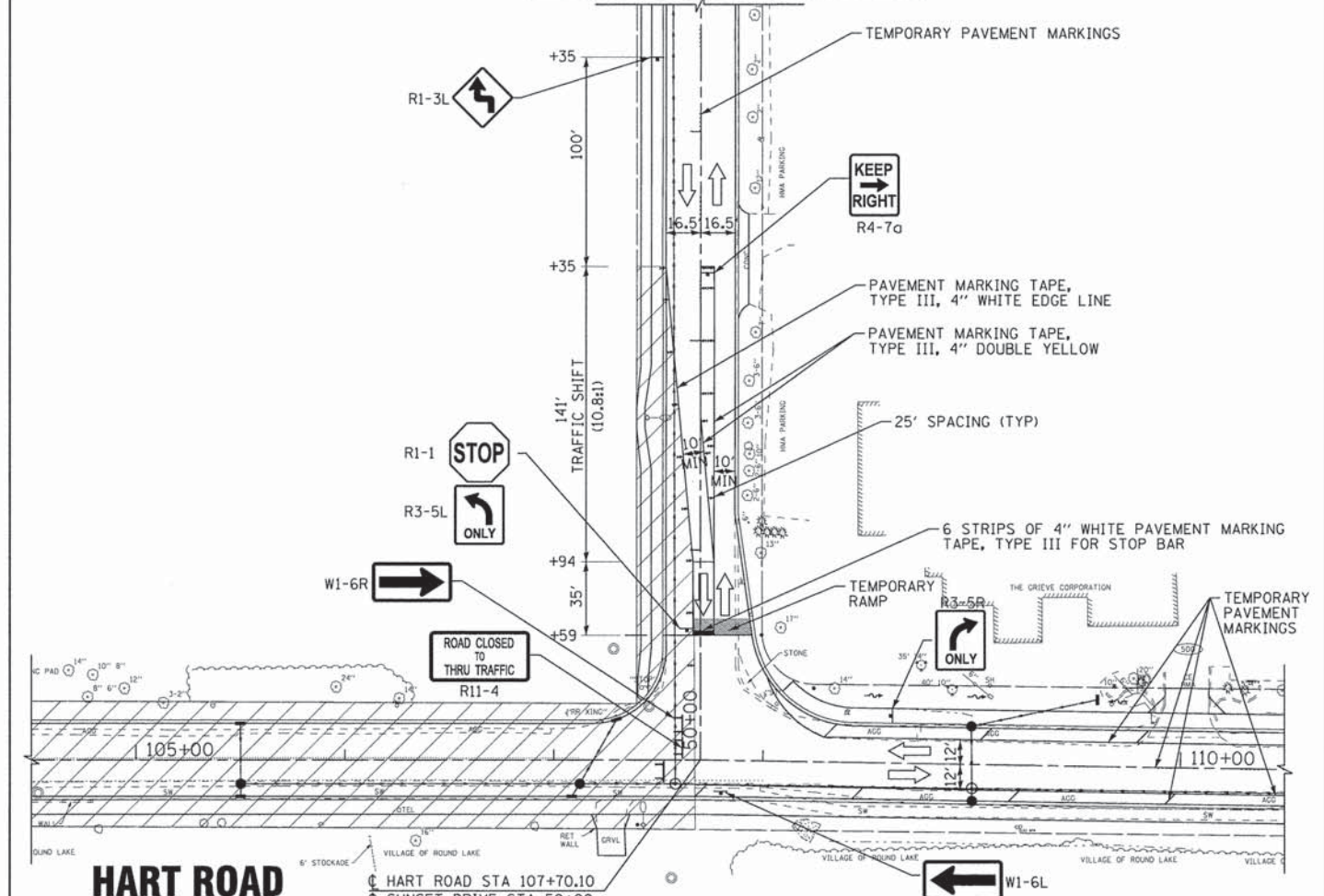
SUNSET DRIVE



STAGE 1 - SUNSET DRIVE AT HART ROAD



STAGE 2 - SUNSET DRIVE AT HART ROAD



STAGE 3 - SUNSET DRIVE AT HART ROAD

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 STATE OF ILLINOIS PROFESSIONAL ENGINEER
 LICENSE NO. 121373
 PROJECT NO. 071749-PH2-SH-MOT3
 DATE: 06/20/13



DESIGNED - DSH	REVISED - 8-12-13 PER IDOT
DRAWN - MAC	REVISED - 8-13-13 PER VILLAGE
CHECKED - RWL	REVISED - 8-27-13 PER IDOT
DATE - 06/20/13	FILE - 071749-PH2-SH-MOT3.sht

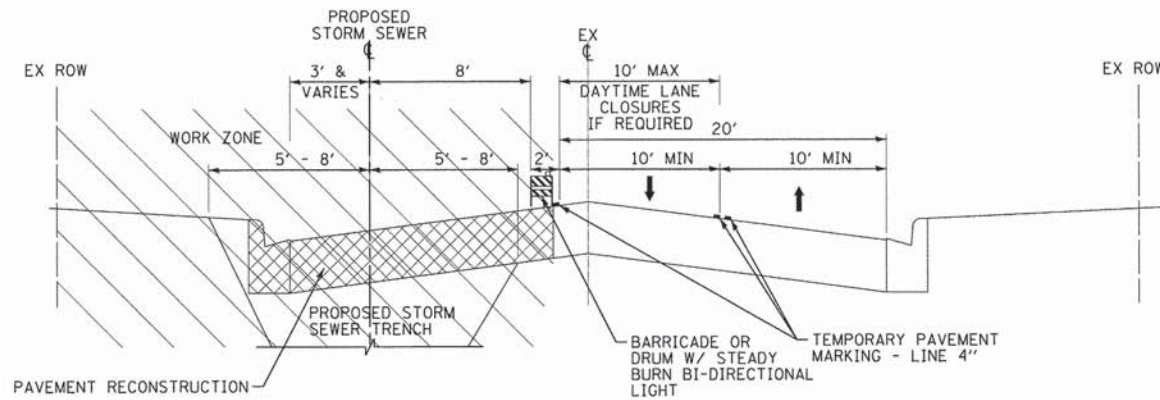
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE 1, STAGE 2, STAGE 3**

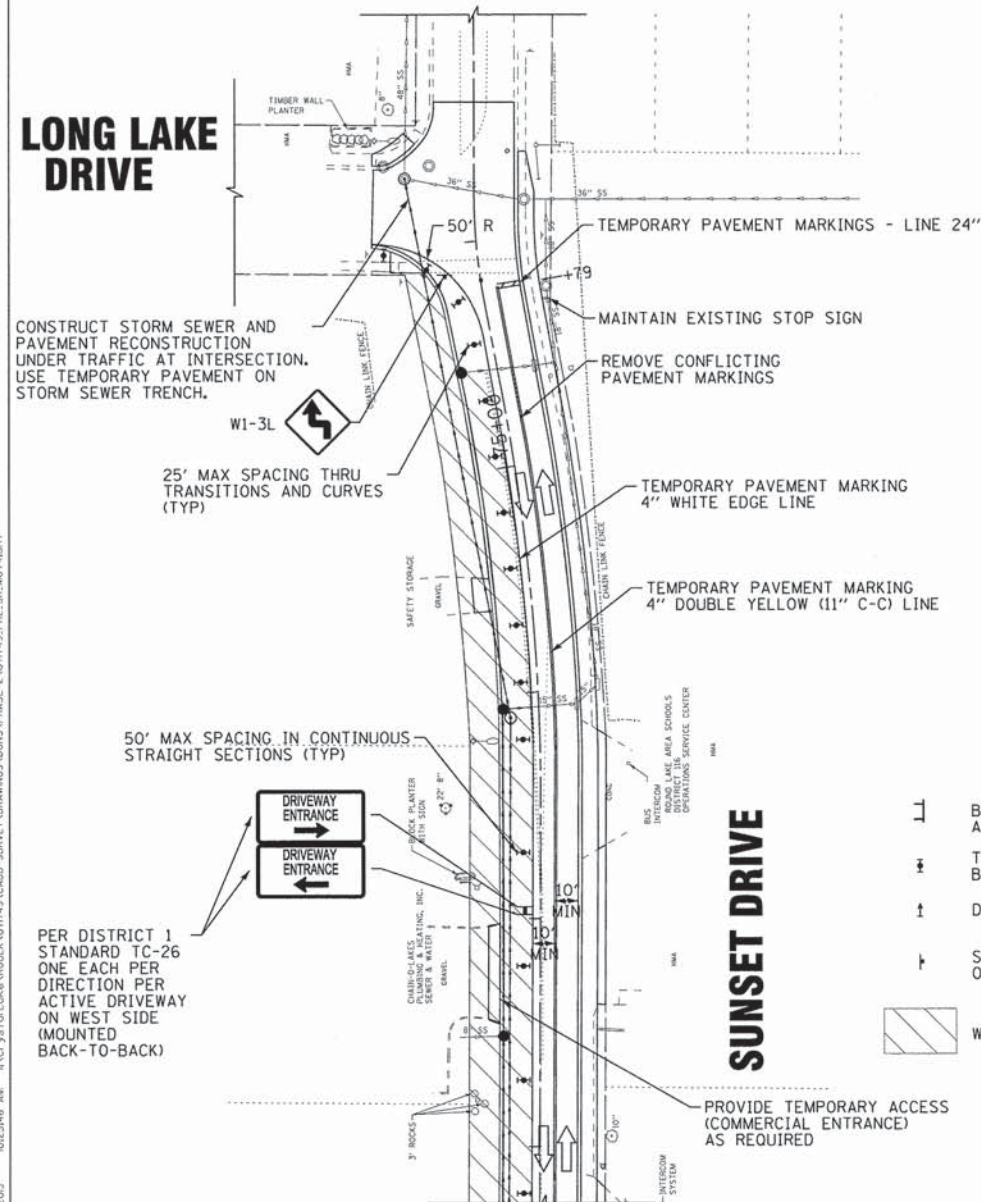
SCALE: 1"=40'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	32
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-9003(482)				



**SUNSET DRIVE
STAGE 1
TYPICAL SECTION**



LEGEND

- ⊥ BARRICADE, TYPE III WITH 2 FLASHING LIGHTS AND SIGNS AS NOTED.
- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ↑ DIRECTION INDICATOR BARRICADE
- ↑ SIGN MOUNTED ABOVE BARRICADE OR ON PORTABLE SUPPORT
- ▨ WORK AREA

SUNSET DRIVE AT LONG LAKE DRIVE STAGE 1

DESIGNED - DSH	REVISED - 8-12-13 PER IDOT
DRAWN - MAC	REVISED - 8-13-13 PER VILLAGE
CHECKED - RWL	REVISED - 8-29-13 PER IDOT
DATE - 06/20/13	FILE - 071749_PH2_SH_MOT4.sht

SUGGESTED SEQUENCE OF CONSTRUCTION

- STAGE 1 - SHIFT TWO-WAY TRAFFIC TO EAST SIDE OF SUNSET AND CONSTRUCT STORM SEWER AND RECONSTRUCTION AND CONSTRUCT RESURFACING PORTION UNDER TRAFFIC.**
- CLOSE WEST PORTION OF SUNSET DRIVE AND SHIFT TWO-WAY TRAFFIC TO EAST PORTION OF ROAD, MAINTAINING 10 FOOT MINIMUM LANE WIDTHS FOR EACH DIRECTION AND ALLOWING CROSS ACCESS TO PROPERTIES ON THE WEST SIDE AT ALL TIMES.
 - INSTALL STORM SEWER ON SUNSET DRIVE WITH DAYTIME ONLY LANE CLOSURES.
 - COMPLETE RECONSTRUCTION THRU HMA BASE COURSE ON WEST SIDE OF SUNSET DRIVE.
 - REMOVE WEST SIDE CLOSURE AND CONSTRUCT EAST-SIDE CURB AND GUTTER, REMOVE REMAINING EXISTING ASPHALT, PREPARE AGGREGATE BASE, AND COMPLETE BINDER COURSE ON SUNSET DRIVE UNDER TRAFFIC.
 - INSTALL TEMPORARY PAVEMENT MARKING AS REQUIRED AND SET UP TRAFFIC SHIFT REQUIRED FOR STAGE 2.
- STAGE 2 CLOSE HART ROAD FROM SUNSET DRIVE TO CEDAR LAKE ROAD.**
- ESTABLISH STAGE 2 DETOUR PRIOR TO STAGE 2 CLOSURE.
 - CLOSE HART ROAD FROM SUNSET DRIVE TO CEDAR LAKE ROAD.
 - INSTALL STORM SEWER ON HART ROAD EAST OF SUNSET, MAINTAINING ACCESS TO MAGEE MIDDLE SCHOOL DURING THE SCHOOL YEAR.
 - INSTALL TEMPORARY TRAFFIC SIGNAL AT CEDAR LAKE ROAD AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - COMPLETE RECONSTRUCTION THRU BINDER COURSE ON HART ROAD EAST OF SUNSET AND INSTALL ALL PROPOSED UNDERGROUND TRAFFIC SIGNAL EQUIPMENT.
 - INSTALL TEMPORARY HMA RAMPS AS REQUIRED TO REOPEN TO TRAFFIC.
 - INSTALL TEMPORARY PAVEMENT MARKINGS AS REQUIRED TO REOPEN TO TRAFFIC AND MAKE APPROPRIATE ADJUSTMENTS TO TEMPORARY TRAFFIC SIGNAL DETECTION ZONES.
- STAGE 3 CLOSE HART ROAD FROM IL ROUTE 134 TO SUNSET DRIVE.**
- REOPEN HART ROAD FROM SUNSET DRIVE TO CEDAR LAKE ROAD TO LOCAL TRAFFIC AND SUNSET DRIVE TRAFFIC ONLY.
 - ESTABLISH STAGE 3 DETOUR PRIOR TO STAGE 3 CLOSURE.
 - SHIFT TRAFFIC ON SUNSET DRIVE AS REQUIRED FOR STAGE 3 AND CLOSE HART ROAD FROM IL ROUTE 134 TO SUNSET DRIVE.
 - INSTALL STORM SEWER ON HART ROAD WEST OF SUNSET, MAINTAINING ACCESS TO CAROL LANE.
 - COMPLETE RECONSTRUCTION THRU BINDER COURSE ON HART ROAD WEST OF SUNSET.
 - INSTALL TEMPORARY PAVEMENT MARKINGS AS REQUIRED TO REOPEN TO TRAFFIC.
 - REOPEN HART ROAD TO TWO-WAY TRAFFIC AND REMOVE HART ROAD DETOUR.
- STAGE 4 CONSTRUCT REMAINING WORK UNDER TRAFFIC**
- COMPLETE REMAINING DRIVEWAYS AND SIDEWALK AND BEGIN REMAINING RESTORATION ON HART ROAD AND SUNSET DRIVE.
 - CONSTRUCT HMA SURFACE COURSE ON HART ROAD AND SUNSET DRIVE.
 - COMPLETE PERMANENT PAVEMENT MARKINGS AND SIGNS BY THE STAGE 4 COMPLETION DATE.
 - COMPLETE TRAFFIC SIGNAL INSTALLATION.
 - REMOVE TEMPORARY TRAFFIC SIGNAL AND TEMPORARY EROSION CONTROL MEASURES NO LONGER NEEDED.
 - COMPLETE ALL REMAINING RESTORATION, LANDSCAPING, AND PUNCH LIST ITEMS WITHIN THE ALLOTTED NUMBER OF WORKING DAYS.

MAINTENANCE OF TRAFFIC NOTES

- THE CONTRACTOR SHALL SUBMIT A PRE-PLANNED SEQUENCE OF WORK AT THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO LOCAL TRAFFIC AND MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY AREA IF TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE.
- SEE SPECIAL PROVISIONS FOR REQUIRED COMPLETION DATES FOR EACH STAGE. THE CONTRACTOR MAY PROVIDE THE ENGINEER WITH ALTERNATIVE CONSTRUCTION SEQUENCE FOR APPROVAL AS LONG AS IT MEETS THESE CRITERIA: SUNSET DRIVE IS FULLY OPEN TO TRAFFIC BEFORE HART ROAD IS CLOSED, LOCAL ACCESS IS PROVIDED TO BUSINESSES ON SUNSET AND RESIDENTS ON CAROL LANE, AND HART ROAD EAST OF SUNSET IS CONSTRUCTED WHEN SCHOOL IS NOT IN SESSION.
- PRELIMINARY WORK ON OTHER STAGES CAN BE COMPLETED UNDER TRAFFIC UTILIZING APPROPRIATE HIGHWAY STANDARDS WITH THE APPROVAL OF THE ENGINEER.
- ALL TRAFFIC CONTROL AND TEMPORARY EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO COMPLETING ANY WORK ON A STAGE.
- ACCESS FOR EMERGENCY VEHICLES, LOCAL TRAFFIC, GARBAGE COLLECTION, SCHOOL BUSES, AND MAIL SERVICE SHALL BE MAINTAINED AT ALL TIMES. ANY SIGNIFICANT CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH IMPACT EMERGENCY SERVICES.

MAINTENANCE OF TRAFFIC NOTES (CONTD)

- DURING THE SCHOOL YEAR, ROUGHLY FROM THE END OF AUGUST TO THE END OF MAY (COORDINATE WITH THE SCHOOL DISTRICT FOR EXACT DATES), ACCESS TO THE ROUND LAKE AREA HIGH SCHOOL, DISTRICT OPERATIONS CENTER, AND MAGEE MIDDLE SCHOOL SHALL BE PROVIDED AT ALL TIMES.
- DURING THE SCHOOL YEAR, NO DAILY LANE CLOSURES WILL BE ALLOWED ON HART ROAD BETWEEN CEDAR LAKE ROAD AND THE MAGEE MIDDLE SCHOOL ENTRANCE DURING DROP-OFF AND PICK-UP TIMES, 7AM TO 8AM AND 2PM TO 3PM.
- THE PAVEMENT RECONSTRUCTION OF HART ROAD (THRU BINDER) BETWEEN CEDAR LAKE ROAD AND THE MAGEE MIDDLE SCHOOL ENTRANCE SHALL BE COMPLETED WHEN SCHOOL IS NOT IN SESSION END OF MAY TO THE END OF AUGUST. AS AN OPTION, STAGE 2 MAY BE SPLIT INTO TWO SUB-STAGES TO ACCOMPLISH THIS.
- THE PROJECTED CONSTRUCTION SCHEDULE FOR THE BEGINNING OF THE 2014/2015 SCHOOL YEAR SHALL BE PROVIDED TO THE ENGINEER BY JULY 1, 2014 TO FORWARD TO THE SCHOOL DISTRICT FOR BUS ROUTE PLANNING.
- ALL BARRICADES SHALL BE EQUIPPED WITH STEADY BURN BI-DIRECTIONAL LIGHTS. SPACING SHALL BE AT 50 FOOT INTERVALS ALONG WORK AREAS AND 25 FEET WHERE DIRECTION CHANGES AND TAPERS OCCUR. 25' MAXIMUM BARRICADE SPACING SHALL BE PROVIDED ADJACENT TO ACTIVE WORK AREAS WHERE DROP-OFFS EXCEED 3-INCHES OR AS DETERMINED BY THE ENGINEER.
- DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS. 10-FOOT MINIMUM LANE WIDTHS ARE REQUIRED ON ALL OPEN LANES.
- THE CONTRACTOR SHALL COORDINATE COMMERCIAL DRIVEWAY CLOSURES/ MODIFICATIONS WITH THE LOCAL BUSINESSES AND THE ENGINEER. COMMERCIAL DRIVEWAYS WHICH CANNOT BE CLOSED, AS DETERMINED BY THE ENGINEER, SHALL BE CONSTRUCTED IN STAGES OR SHALL BE CONSTRUCTED WHEN BUSINESSES ARE NOT OPEN USING HIGH EARLY STRENGTH CONCRETE. THIS WORK SHALL BE INCLUDED IN THE CONTRACT.
- DURING STORM SEWER INSTALLATION AND RECONSTRUCTION ON THE WEST SIDE OF SUNSET DRIVE, A MANEUVERING AREA SHALL BE PROVIDED ON THE WEST SIDE OF SUNSET DRIVE ACROSS FROM COMMERCIAL DRIVEWAYS ON THE EAST SIDE WHICH REQUIRE BACKING OF TRUCKS ONTO THE PROPERTY. EXTRA QUANTITY OF EACH TEMPORARY ACCESS (COMMERCIAL ENTRANCE) HAS BEEN PROVIDED TO ACCOUNT FOR THESE LOCATIONS AND WILL BE PAID FOR AS SUCH.
- ROAD EXCAVATION SHALL BE LIMITED TO THE LENGTH OF ROADWAY THAT CAN BE COVERED BY AGGREGATE AND RE-ESTABLISH TEMPORARY ACCESS IN ONE DAY.
- DAILY LANE CLOSURES AND TEMPORARY AND PERMANENT TRAFFIC SIGNAL INSTALLATION ON CEDAR LAKE ROAD SHALL BE COORDINATED WITH THE LAKE COUNTY DIVISION OF TRANSPORTATION (LCDOT).
- WITHIN 48 HOURS, TEMPORARY PAVEMENT SHALL BE PLACED IN ALL LOCATIONS WHERE THE PAVEMENT HAS BEEN OPENED UP, BUT NOT PART OF THE FULL-TIME CLOSURE, OR AS DIRECTED BY THE ENGINEER.
- ALL STREET SECTIONS NOT INCLUDED IN THE FULL-TIME CLOSURE SHALL BE OPEN TO TWO WAY TRAFFIC AT THE END OF EACH DAY USING TEMPORARY ACCESS AGGREGATE, TEMPORARY RAMPS OR TEMPORARY PAVEMENT AS NEEDED.
- ALL OPEN TRENCHES IN AREAS CLOSED TO ALL TRAFFIC BUT ADJACENT TO OPEN LANES SHALL BE FILLED TO NO MORE THAN 18 INCHES BELOW THE EXISTING SURFACE AT THE END OF EACH DAY. OVERNIGHT DROP OFFS EXCEEDING 3 INCHES SHALL REQUIRE 25' MAX. BARRICADE SPACING.
- ALL OPEN TRENCHES IN AREAS TO BE OPEN TO TRAFFIC AT THE END OF THE DAY, INCLUDING ACCESS TO DRIVEWAYS, SHALL BE FILLED AND COMPACTED TO THE TOP OF THE EXISTING SURFACE ELEVATION BY THE END OF EACH DAY.
- CONSTRUCTION OF THE PILE-SUPPORTED STORM SEWER EAST OF CEDAR LAKE ROAD MAY BE CONSTRUCTED ANY TIME DURING STAGES 1 OR 2 AS LONG AS TRAFFIC CONTROL, SEDIMENT CONTROL, AND CONTROL OF CONSTRUCTION DEBRIS ARE ACCEPTABLE TO THE ENGINEER.
- CONSTRUCTION OF THE JACKING PIT IN FRONT OF MAGEE MIDDLE SCHOOL SHALL BE COMPLETED WHEN SCHOOL IS NOT IN SESSION TO AVOID DISRUPTION TO SCHOOL TRAFFIC AND FOR SAFETY OF SCHOOL CHILDREN. FOR THE DURATION OF JACKING PIT USE, BARRICADES SPACED AT 25 FOOT SHALL BE PLACED AT LEAST 8 FEET AWAY FROM THE PIT ADJACENT TO OPEN TRAFFIC LANES AND TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF PIT AT THE END OF EACH DAY. THIS WILL WORK WILL BE INCLUDED IN THE COST OF STORM SEWERS JACKED IN PLACE.
- "ROAD CONSTRUCTION AHEAD" SIGNS, WITH APPROPRIATE ARROW IF REQUIRED, SHALL BE PLACED ON ALL APPROACHES AND SIDE STREETS IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS AND DISTRICT ONE DETAILS.
- CONTACT THE IDOT DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 AT LEAST 72 HOURS PRIOR TO INSTALLING DETOUR SIGNS ON IL ROUTE 134.

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1001 W. MONROE ST., SUITE 200, DEERFIELD, IL 60015
TEL: 847.939.4444 FAX: 847.939.4444
WWW.BAXTERANDWOODMAN.COM



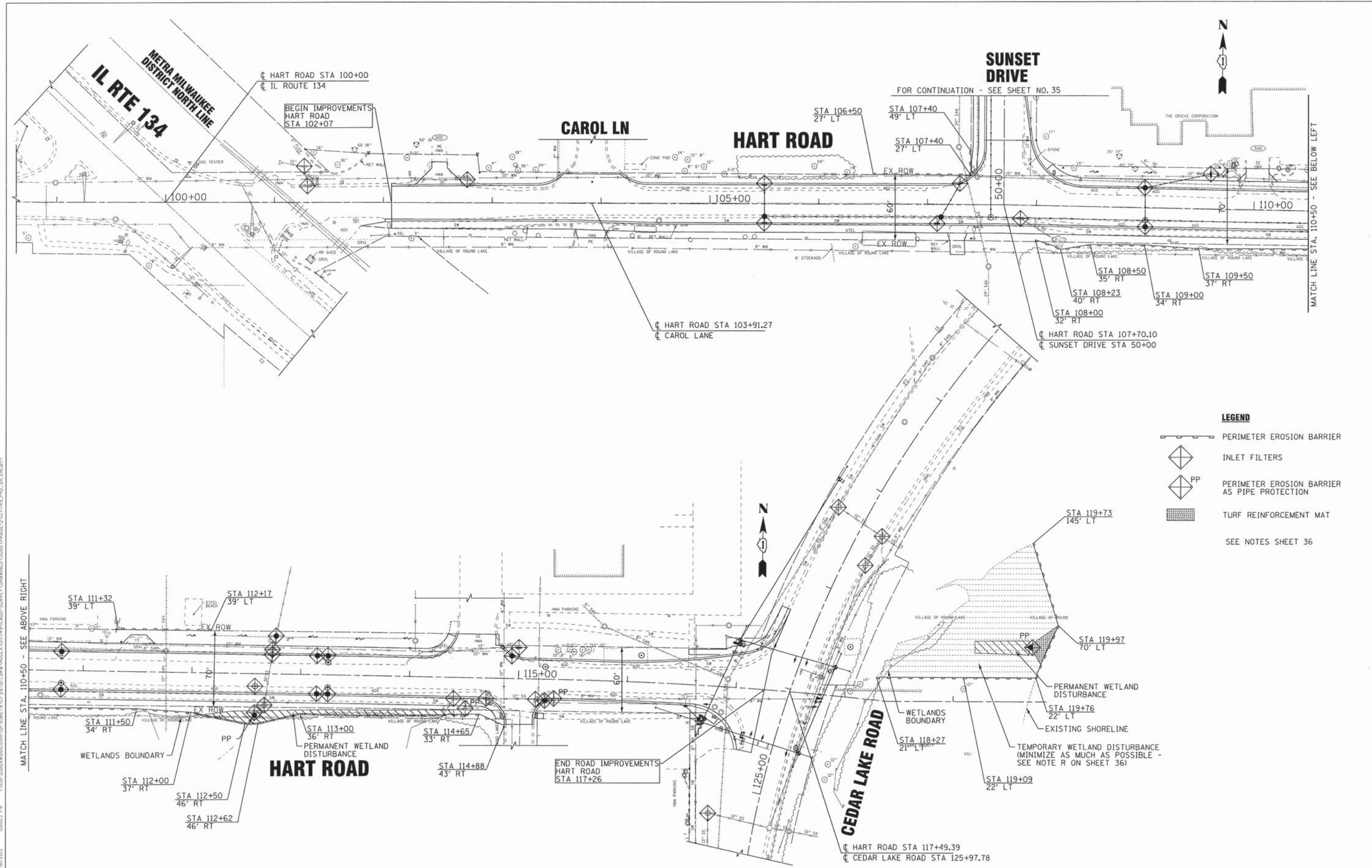
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN





SCALE: 1"=40'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	33
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-900314821		



LEGEND

-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  PERIMETER EROSION BARRIER AS PIPE PROTECTION
-  TURF REINFORCEMENT MAT
- SEE NOTES SHEET 36

CONTRACT NO. 00-0025-00-FP
 STATE OF ILLINOIS
 LICENSE NO. 00-0025-00-FP
 02/01/2010
 06/23/2013



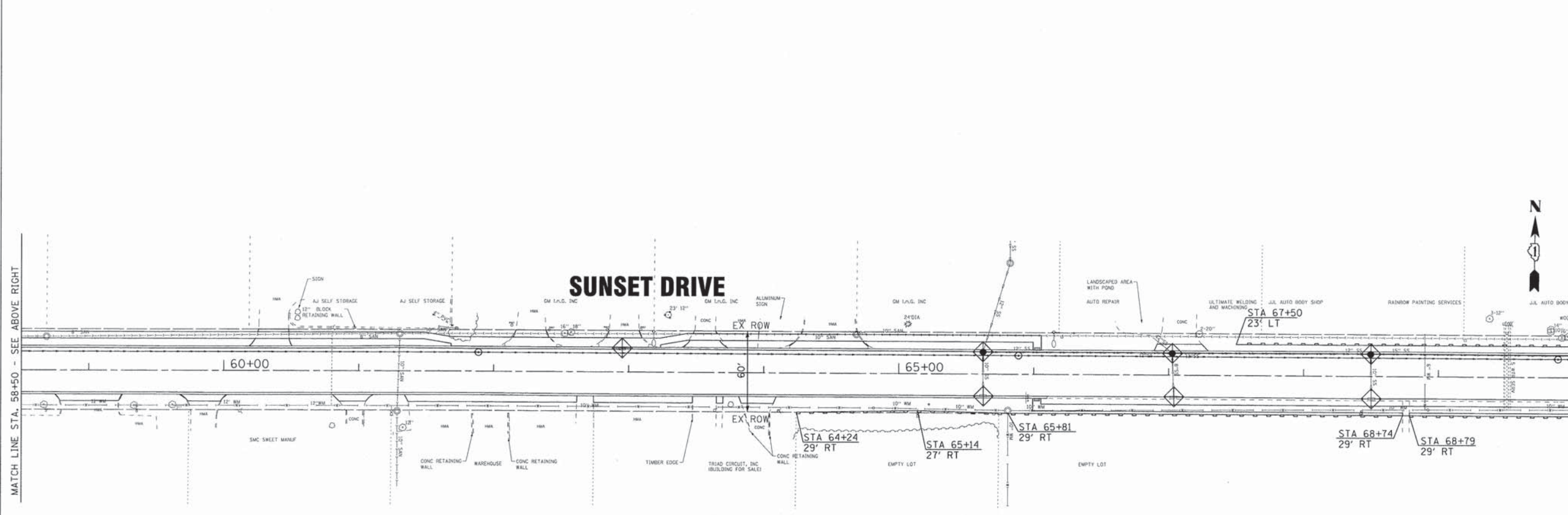
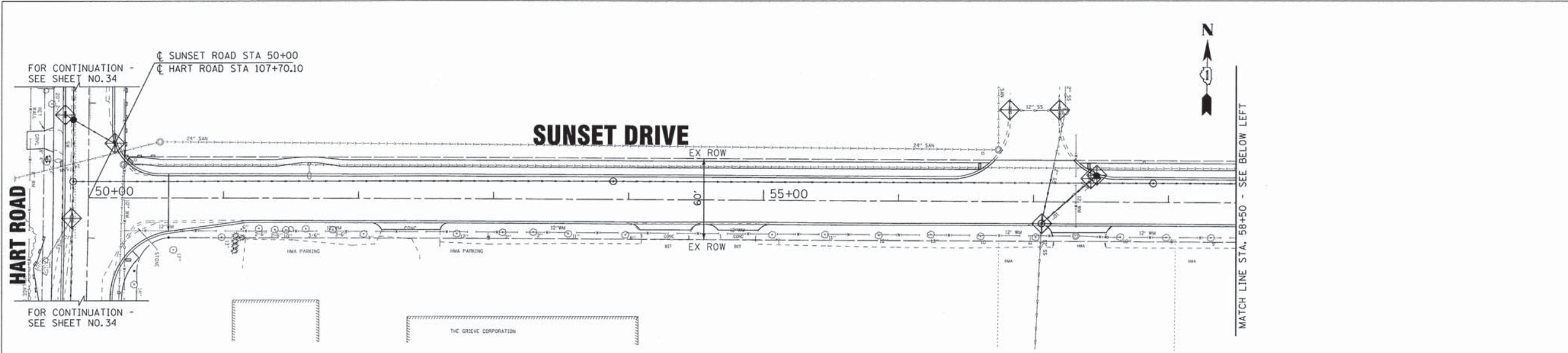
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DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2.SH.ERI.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
HART ROAD**

SCALE: 1"=40' STA. 102+07 TO STA. 117+26

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-0025-00-FP	LAKE	98	34
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS]		FED. AID PROJECT N-90034821		



SEE NOTES SHEET 36

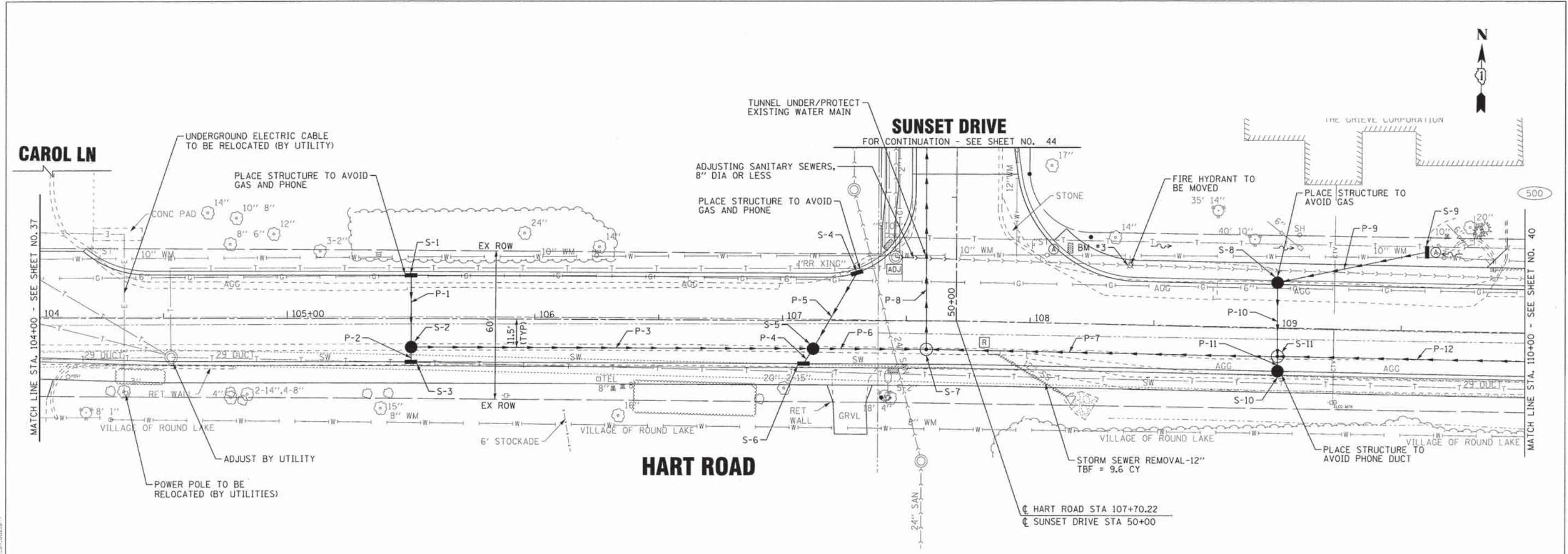
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 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 184-000212, EXPIRES 4/30/2015
 2300 S. BOONE AVE., SUITE 100, CHICAGO, IL 60607-1000
 PROJECT: 071749-PH2-SH-ER2-81T

DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_ER2.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN SUNSET DRIVE	
SCALE: 1"=40'	STA. 50+00 TO STA. 70+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	35
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003(482)	



STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-1	105+50	17.5' LT	INLET, TYPE A	TY 11V F&G	789.17 EP	785.17 12" S
S-2	105+50	11.5' RT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, CLID	789.29 RIM	785.53 12" S; 784.88 12" N; 782.87 12" E
S-3	105+50	17.5' RT	INLET, TYPE A	TY 11V F&G	789.17 EP	786.13 12" N
S-4	107+30	19.4' LT	INLET, TYPE A	TY 11V F&G	783.11 EP	779.06 12" SW
S-5	107+12	11.5' RT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, CLID	784.26 RIM	780.50 12" SW; 778.71 12" NE; 774.77 12" W; 772.77 12" E
S-6	107+09	17.5' RT	INLET, TYPE A	TY 11V F&G	784.24 EP	781.20 12" NE
S-7	107+58	11.5' RT	MANHOLE, DROP TYPE, 7' DIA	TY 1 FR, CLID	782.66 RIM	770.52 12" W TOP; 751.86 12" W BOT; 749.86 36" N & E (SEE DETAIL)
S-8	109+00	17.5' LT	CATCH BASIN, TYPE A, 4' DIA	TY 11V F&G	777.47 EP	771.25 12" E; 769.25 12" S
S-9	109+60	32' LT	INLET, TYPE A	TY 1 FR, CLID	774.11 RIM	771.56 12" W
S-10	109+00	17.5' RT	CATCH BASIN, TYPE C	TY 11V F&G	777.47 EP	773.50 12" N
S-11	109+00	11.5' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	777.59 RIM	772.90 12" S; 767.80 12" N; 750.00 36" E & W

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-1	SS, CL A, TYPE 1	29	12	1.00%	10.5
P-2	SS, CL A, TYPE 1	6	12	10.00%	1.7
P-3	SS, CL A, TYPE 2	162	12	5.00%	190.7
P-4	SS, CL A, TYPE 1	7	12	10.00%	2.0
P-5	SS, CL A, TYPE 1	35	12	1.00%	23.3
P-6	SS, CL A, TYPE 2	45	12	5.00%	80.5
P-7	SS, CL A, TYPE 5	142	36	0.10%	978.7
P-8	SEE SHEET 44				
P-9	SS, (WATER MAIN REQUIREMENTS)	62	12	0.50%	20.4
P-10	SS, CL A, TYPE 2	29	12	5.00%	38.8
P-11	SS, CL A, TYPE 1	6	12	10.00%	2.3
P-12	SS, CL A, TYPE 5	180	36	0.10%	1040.5

(SEE NEXT SHEET FOR PROFILE)

CONTRACT # 031 BY BAYTER & WOODMAN, INC. STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM LICENSE NO. 384-002271 - EXPIRES 4/30/2015 23046
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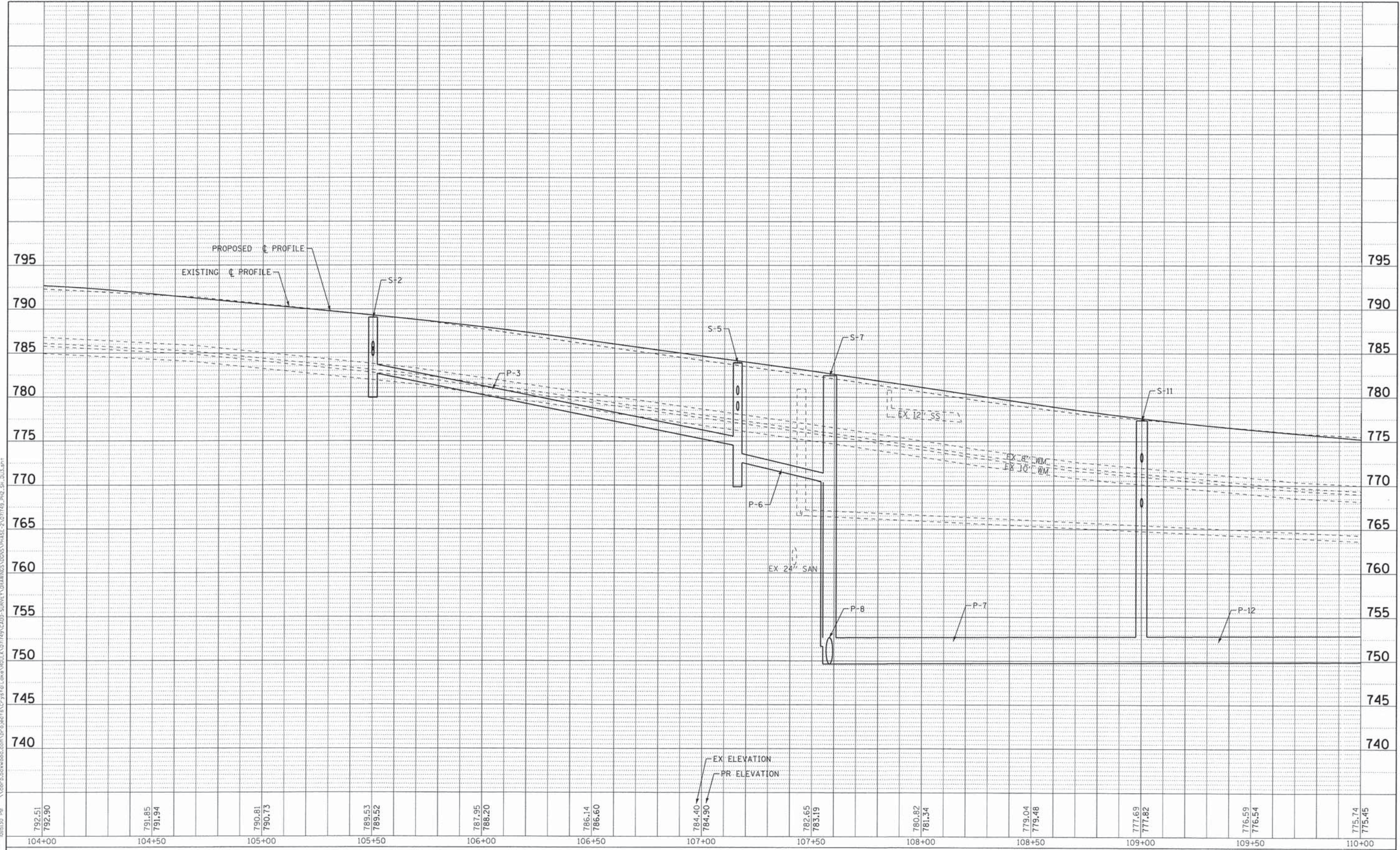
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DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_P2_SH_DU2.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES HART ROAD	
SCALE: 1"=20'	STA. 104+00 TO STA. 110+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	38
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

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 PROJECT: 00-00025-00-FP
 SHEET: 98 OF 98
 DATE: 8/16/2013
 FILE: 071749.PH2.SH.DU3.SHT



792.51	791.85	790.81	789.53	787.95	786.14	784.40	782.65	780.82	779.04	777.69	776.59	775.74
792.90	791.94	790.73	789.52	788.20	786.60	784.90	783.19	781.34	779.48	777.82	776.54	775.45
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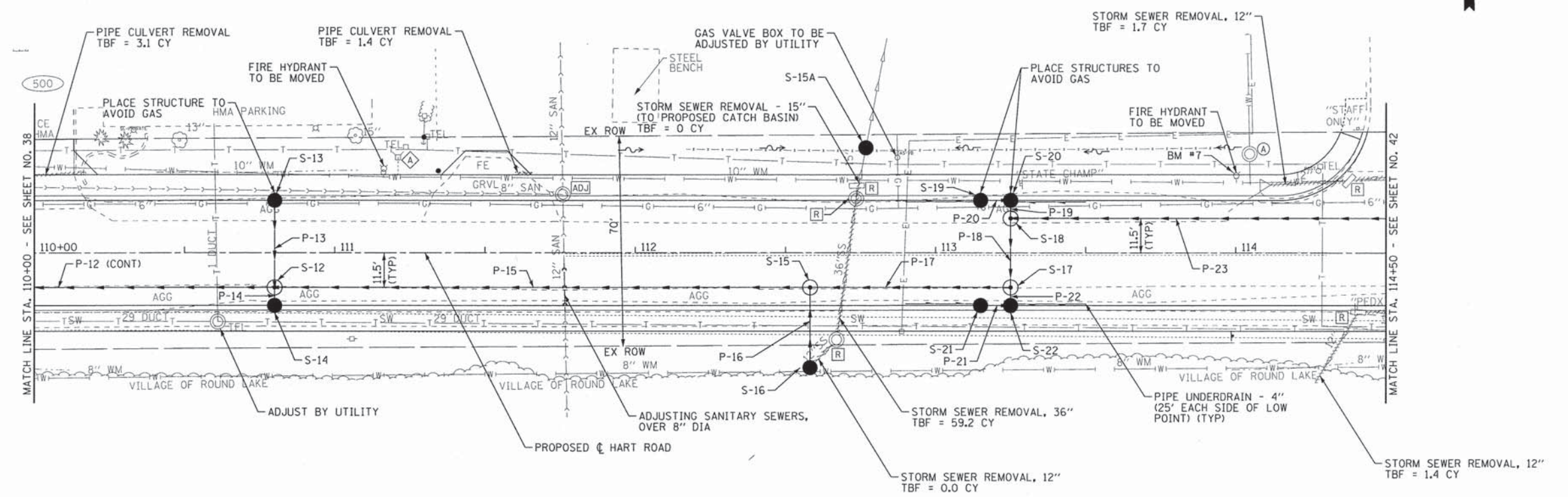
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PLOT DATE = 8/16/2013	CHECKED - RWL	REVISED -
	DATE - 06/20/13	FILE - 071749.PH2.SH.DU3.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
HART ROAD

SCALE: H: 1"=20' V: 1"=5' STA. 104+00 TO STA. 110+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	39
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT M-9003(482)		



HART ROAD

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-12	110+80	11.5' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	773.97 RIM	769.25 12" S; 768.40 12" N; 750.18 36" E & W
S-13	110+80	17.5' LT	CATCH BASIN, TYPE C	TY 11V F&G	773.85 EP	769.85 12" S
S-14	110+80	17.5' RT	CATCH BASIN, TYPE C	TY 11V F&G	773.85 EP	769.85 12" N
S-15	112+58	11.5' RT	MANHOLE, TYPE A, 6' DIA	TY 1 FR, CLID	772.88 RIM	753.36 36" S; 750.36 36" E & W
S-15A	112+77	35' LT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, OLID	770.13 RIM	765.27 15" N (EX) - FIELD VERIFY
S-16	112+58	38' RT	CATCH BASIN, TYPE A, 5' DIA	MEDIAN INL STD 604106	TOP OF GRATE 766.87	753.65 36" N
S-17	113+25	11.5' RT	MANHOLE, TYPE A, 7' DIA	TY 1 FR, CLID	772.56 RIM	765.65 12" S; 750.43 36" N & W
S-18	113+25	11.5' LT	MANHOLE, TYPE A, 7' DIA	TY 1 FR, CLID	772.56 RIM	765.65 12" N; 750.43 36" S & E
S-19	113+15	17.5' LT	CATCH BASIN, TYPE C	TY 11 F&G	772.45 EP	768.45 12" E
S-20	113+25	17.5' LT	CATCH BASIN, TYPE A, 4' DIA	TY 11 F&G	772.44 EP	767.95 12" W; 765.95 12" S
S-21	113+15	17.5' RT	CATCH BASIN, TYPE C	TY 11 F&G	772.45 EP	768.45 12" E
S-22	113+25	17.5' RT	CATCH BASIN, TYPE A, 4' DIA	TY 11 F&G	772.44 EP	767.95 12" W; 765.95 12" S

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-13	SS, CL A, TYPE 1	29	12	5.00%	19.3
P-14	SS, CL A, TYPE 1	6	12	10.00%	2.3
P-15	SS, CL A, TYPE 4	178	36	0.10%	919.1
P-16	SS, CL A, TYPE 1	26	36	1.10%	72.3
P-17	SS, CL A, TYPE 4	67	36	0.10%	332.7
P-18	SS, CL A, TYPE 4	23	36	0.10%	113.1
P-19	SS, CL A, TYPE 2	6	12	5.00%	5.8
P-20	SS, (WATER MAIN REQUIREMENTS)	10	12	5.00%	3.8
P-21	SS, CL A, TYPE 1	10	12	5.00%	3.8
P-22	SS, CL A, TYPE 2	6	12	5.00%	5.8
P-23	SS, CL A, TYPE 4	199	36	0.10%	1042.2

(SEE NEXT SHEET FOR PROFILE)

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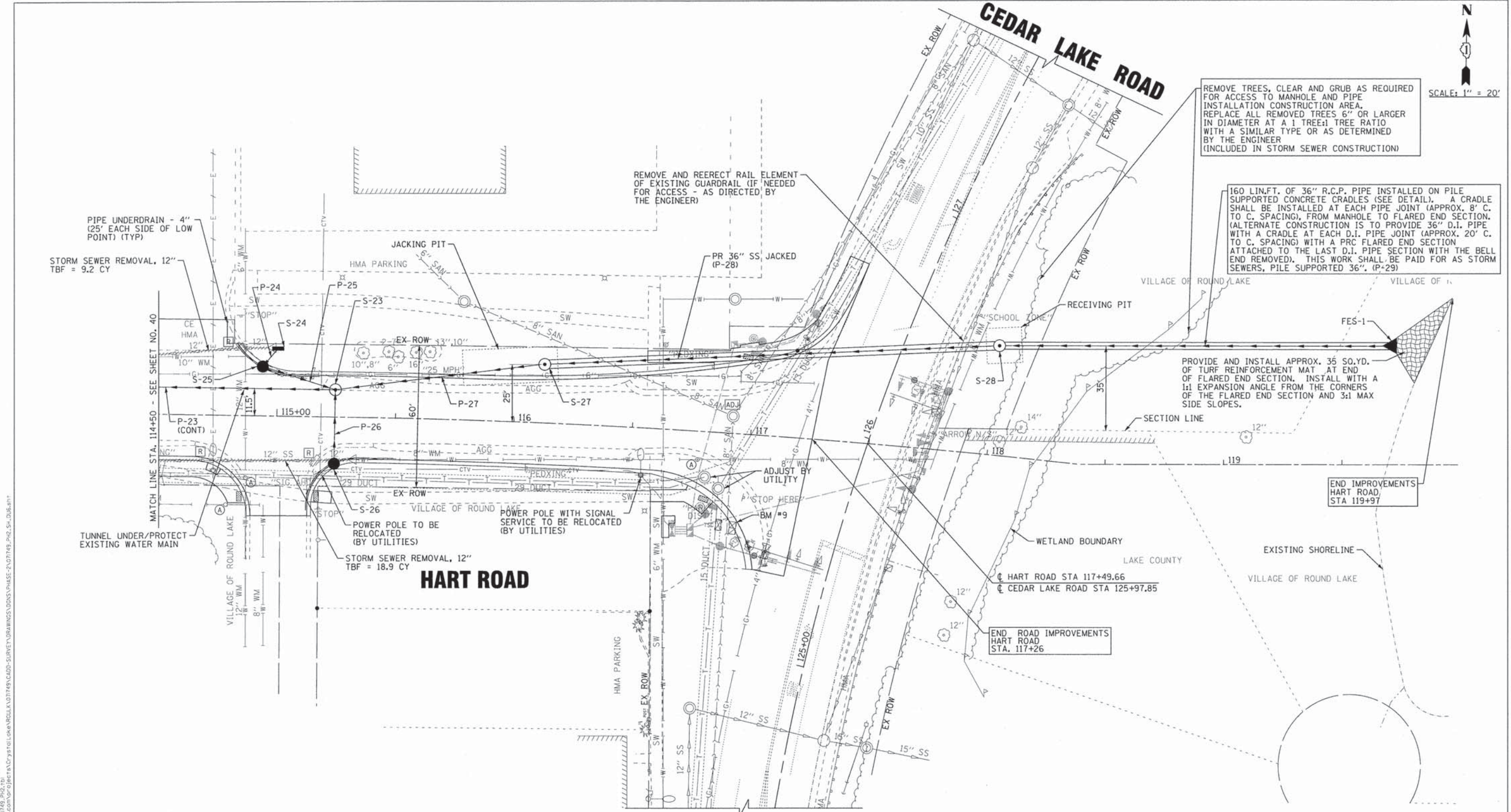
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
HART ROAD

SCALE: 1"=20'

STA. 110+00 TO STA. 114+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	40
C-91-070-10		CONTRACT NO. 6386B		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				



STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-23	115+24	11.5' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	775.46 RIM	770.89 12" S; 766.10 12" NW; 750.65 36" E & W
S-24	115+00	28.6' LT	INLET, TYPE A	TY 1 FR, OLID	772.47 RIM	770.00 12" SW
S-25	114+94	20.9' LT	CATCH BASIN, TYPE A, 4' DIA	TY 11 F&G	774.97 EP	769.70 12" NE; 767.70 12" SE
S-26	115+24	19.6' RT	CATCH BASIN, TYPE C	TY 11 F&G	775.44 EP	772.44 12" N
S-27	116+12	24.7' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	778.20 RIM	750.74 36" E & W
S-28	118+00	46.3' LT	MANHOLE, TYPE A, 5' DIA, SPL	TY 1 FR, CLID	768.00 RIM	750.93 36" E & W
FES-1	119+73	50' LT	PRC FLARED END SECTION, PILE SUPPORTED	--	--	751.10 36" E

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-24	SS, (WATER MAIN REQUIREMENTS)	10	12	3.00%	3.8
P-25	SS, CL A, TYPE 2	32	12	5.00%	39.2
P-26	SS, CL A, TYPE 1, RUBBER GASKET	31	12	5.00%	10.0
P-27	SS, CL A, TYPE 5	87	36	0.10%	513.7
P-28	SS, JACKED	187	36	0.10%	0.0
P-29	SS, PILE SUPPORTED (SEE DETAIL)	160	36	0.10%	0.0

(SEE NEXT SHEET FOR PROFILE)

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 23400
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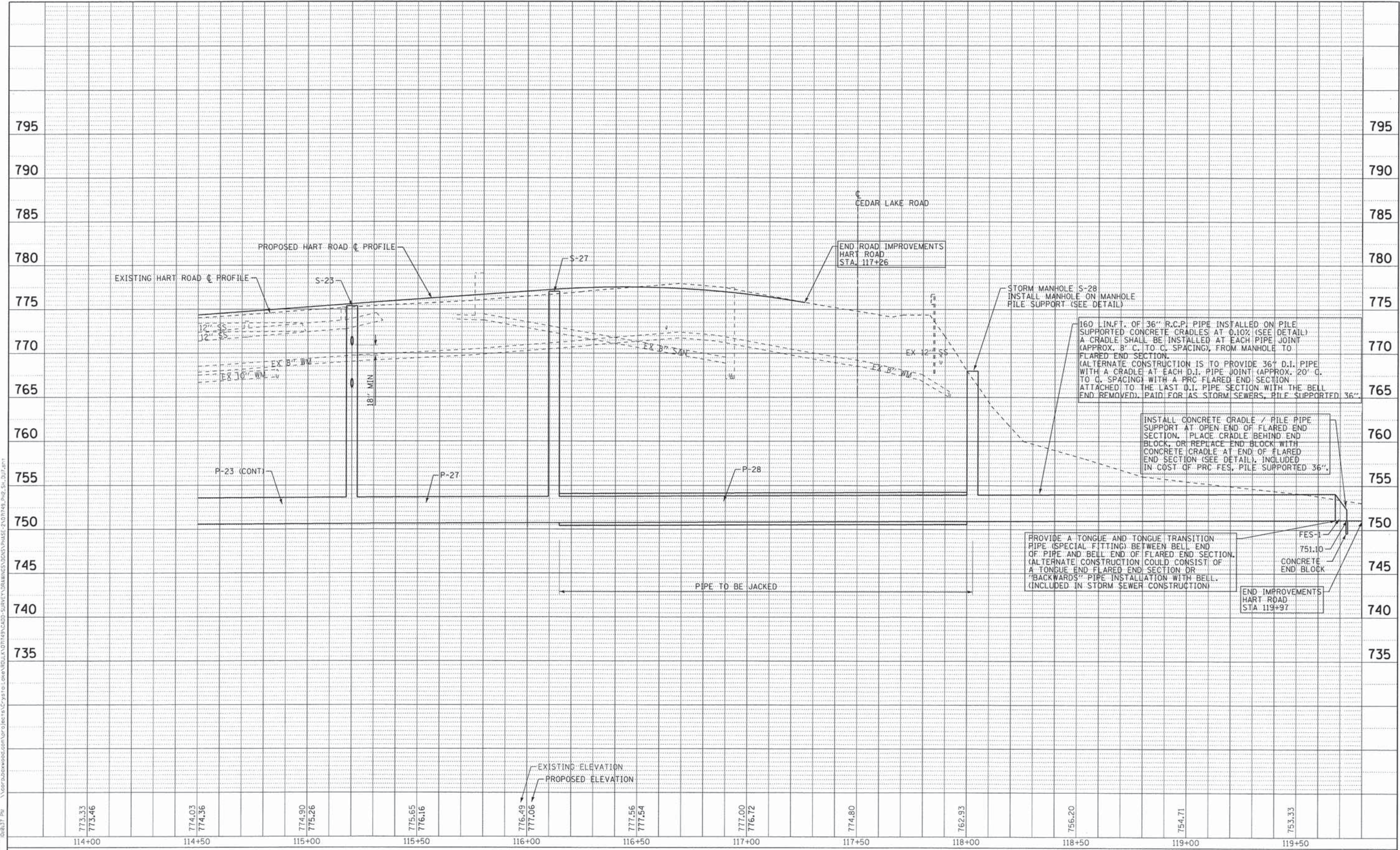
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN
HART ROAD

SCALE: 1"=20' STA. 114+50 TO STA. 119+97

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	42
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				



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 23JAB 8/16/2013

773.33 773.46	774.03 774.36	774.90 775.26	775.65 776.16	776.49 777.06	777.56 777.54	777.00 776.72	774.80	762.93	756.20	754.71	753.33
114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00	119+50

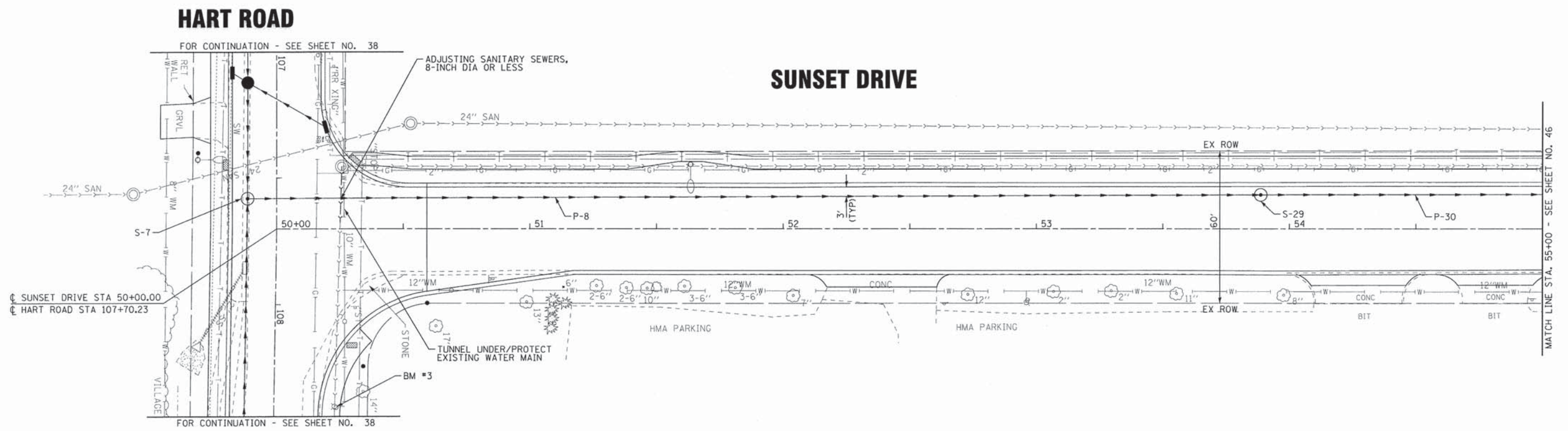


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE AND UTILITY PROFILE HART ROAD	
SCALE: H: 1"=20' V: 1"=5'	STA. 114+50 TO STA. 119+97

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	43
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003482	



STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-7	49+88.5	12' LT	SEE SHEET 38			
S-29	53+89	13.4' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	773.30 RIM	749.46 36" N & S

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-8	SS, CL A, TYPE 5	400	36	0.10%	2569.1
P-30	SS, CL A, TYPE 3	400	36	0.10%	1818.2

(SEE NEXT SHEET FOR PROFILE)

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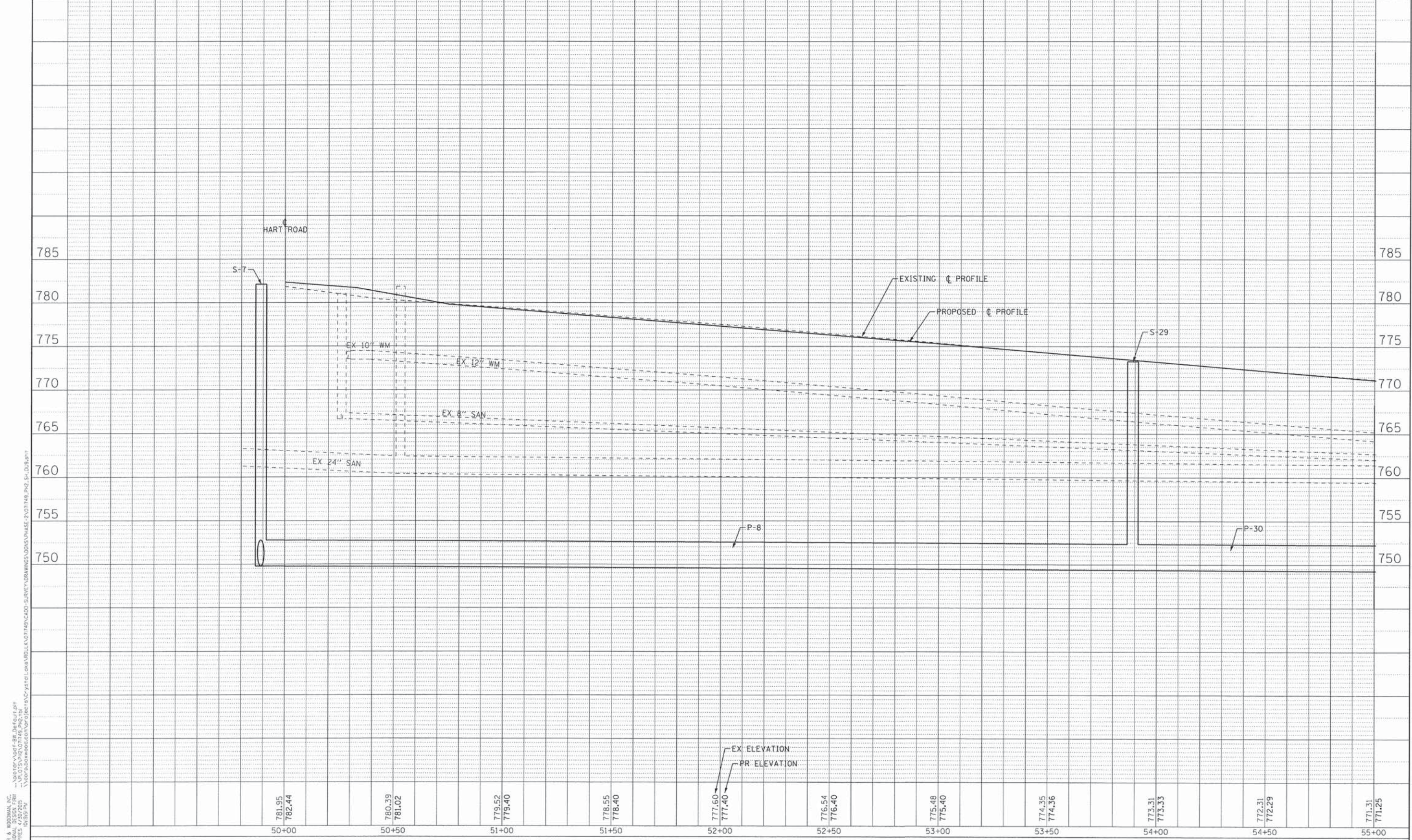


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DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH.DWG.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES SUNSET DRIVE	
SCALE: 1"=20'	STA. 50+00 TO STA. 55+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	44
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



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 TEL: 312.467.1000 FAX: 312.467.1001
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781.95	780.39	779.52	778.55	777.60	776.54	775.48	774.35	773.31	772.31	771.31
782.44	781.02	779.40	778.40	777.40	776.40	775.40	774.36	773.33	772.29	771.25
50+00	50+50	51+00	51+50	52+00	52+50	53+00	53+50	54+00	54+50	55+00



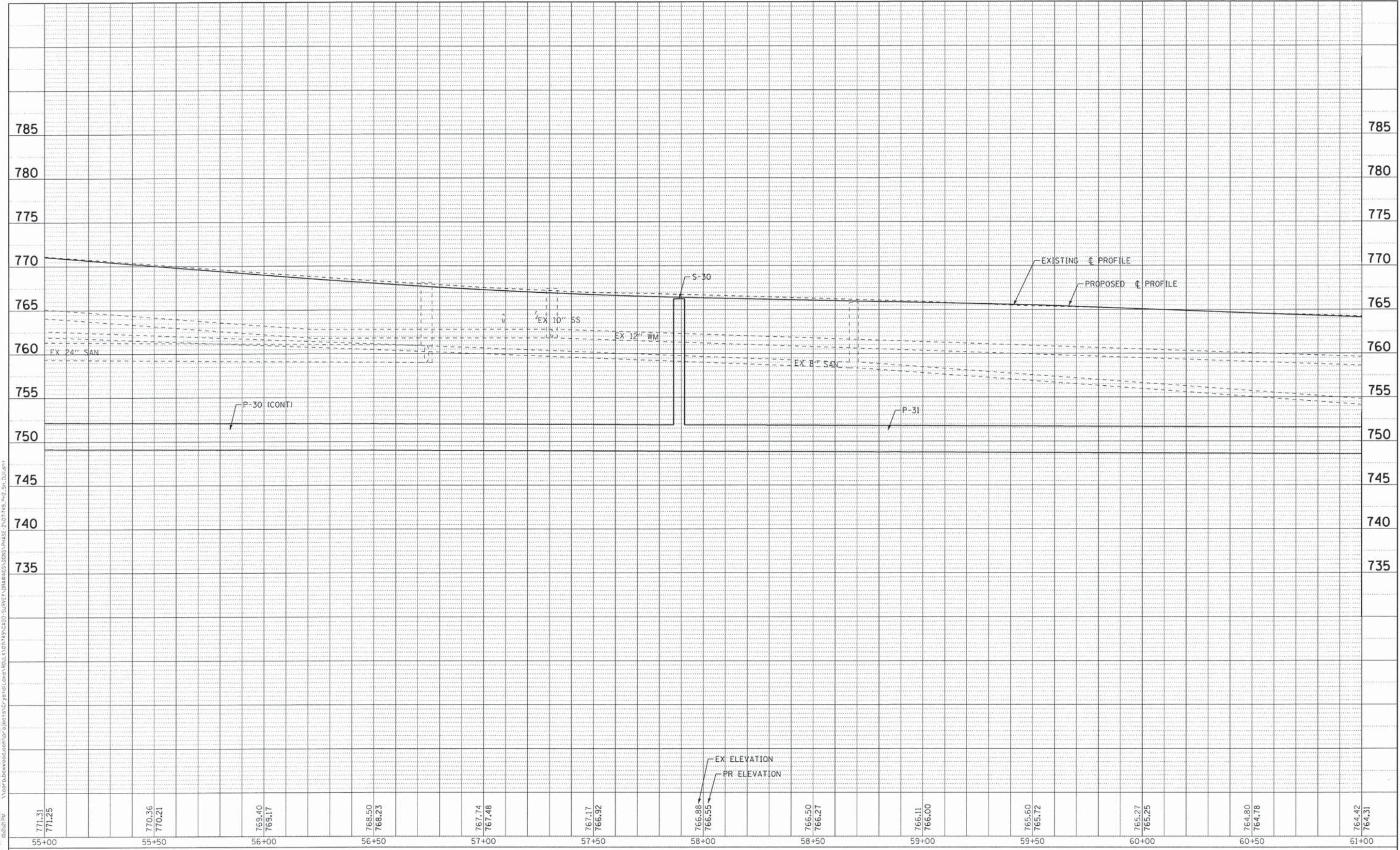
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
SUNSET DRIVE
 SCALE: H: 1"=20' V: 1"=5'
 STA. 50+00 TO STA. 55+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	45
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

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771.31	770.36	769.40	768.50	767.74	767.17	766.88	766.50	766.11	765.60	765.27	764.80	764.42
771.25	770.21	769.17	768.23	767.48	766.92	766.55	766.27	766.00	765.72	765.25	764.78	764.31
55+00	55+50	56+00	56+50	57+00	57+50	58+00	58+50	59+00	59+50	60+00	60+50	61+00



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 PLOT DATE = 8/16/2013

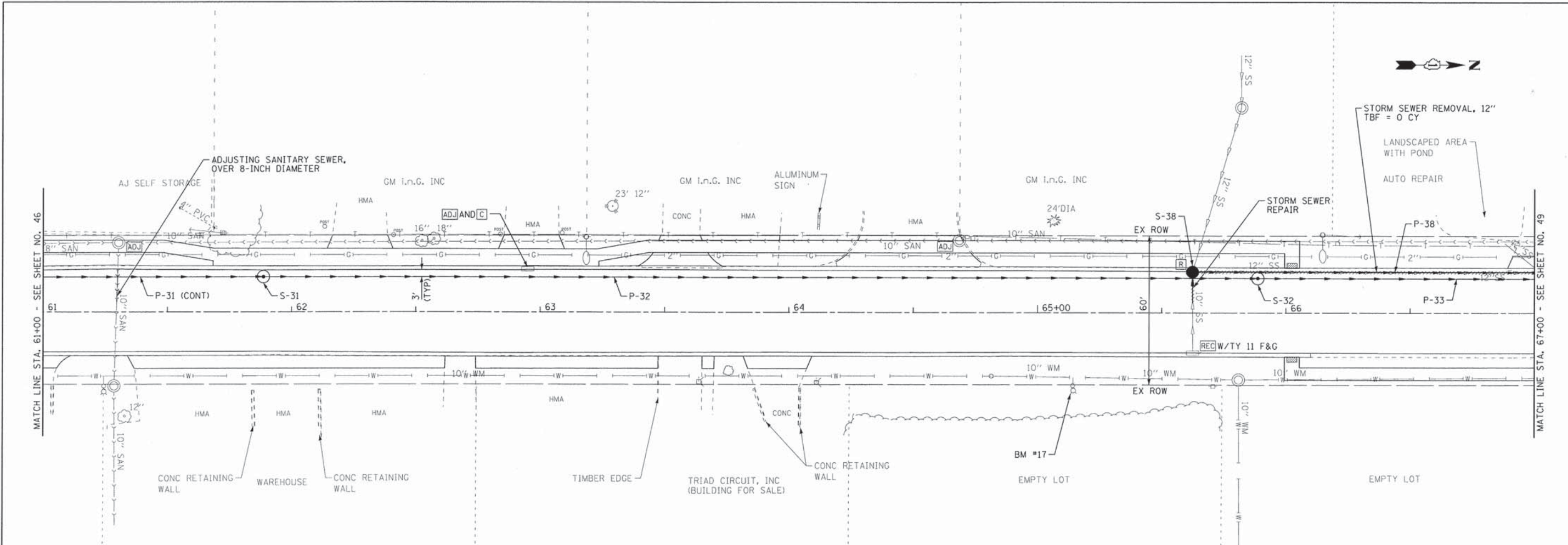
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DATE - 06/20/13	FILE - 071749_PH2_SH.DU11.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
SUNSET DRIVE

SCALE: H: 1"=20' V: 1"=5'
 STA. 55+00 TO STA. 61+00

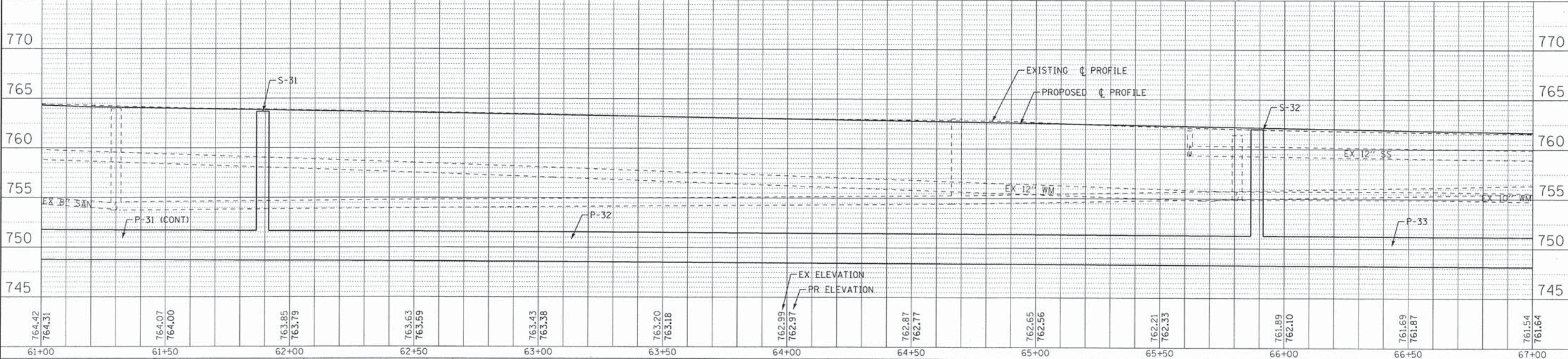
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	47
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63868	
FED. AID PROJECT M-900(482)				



STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-31	61+89	14' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	763.56 RIM	748.66 36" N & S
S-32	65+89	14' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	762.05 RIM	748.26 36" N & S
S-38	65+62	16.5' LT	CATCH BASIN, TYPE A, 4' DIA	TY 11V F&G	761.85 EP	759.40 10" E (EX); 759.35 12" N; 759.32 12" W (EX)

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-32	SS, CL A, TYPE 3	400	36	0.10%	1205.7
P-33	SS, CL A, TYPE 3	400	36	0.10%	1136.5
P-38	SS, CL A, TYPE 1	140	12	0.39%	26.0

SUNSET DRIVE



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CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_DU12.sht

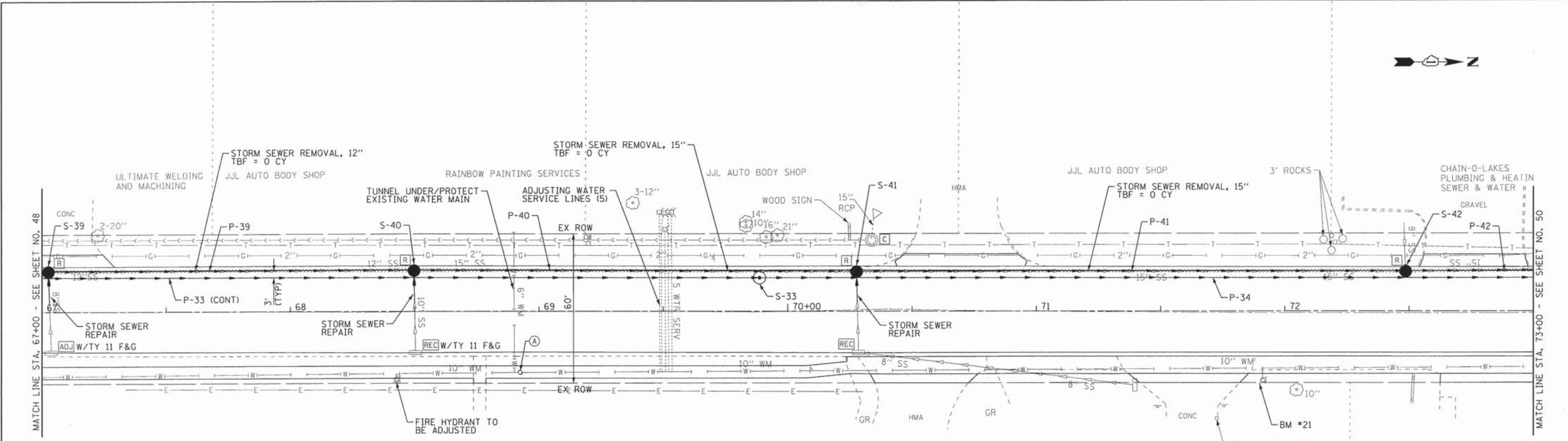
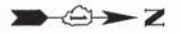
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
SUNSET DRIVE

SCALE: H: 1"=20' V: 1"=5'
STA. 61+00 TO STA. 67+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	48
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT N-900314821				

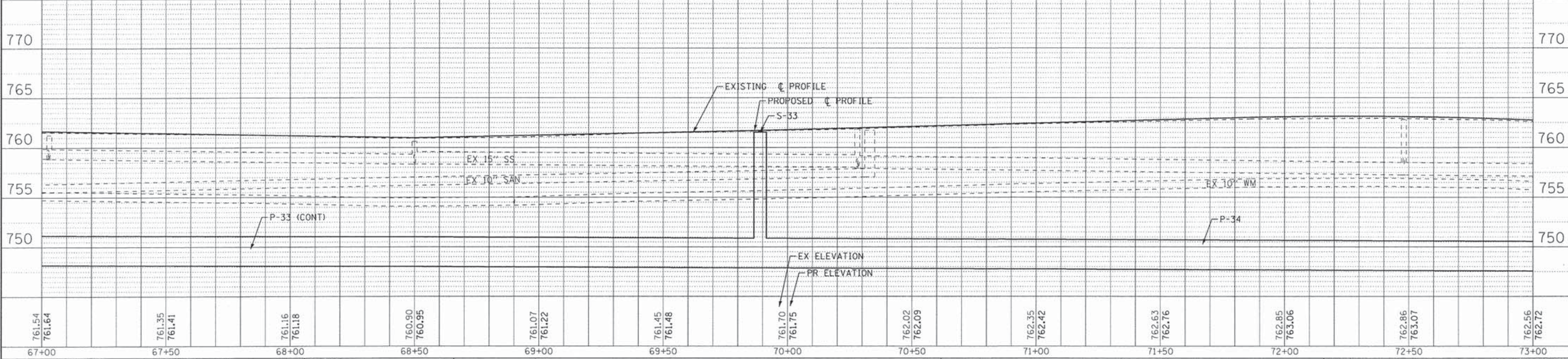
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STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-33	69+89	13.5' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	761.42 RIM	747.86 36" N & S
S-39	67+03	16.5' LT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, OLID	761.23 EP	758.93 8" E (EX); 758.81 12" S; 758.81 12" SW & N
S-40	68+50	16.5' LT	CATCH BASIN, TYPE C	TY 11 F&G	760.58 EP	758.19 10" E (EX); 758.19 12" S; 758.19 15" N
S-41	70+28	16.1' LT	CATCH BASIN, TYPE A, 4' DIA	TY 11V F&G	761.82 EP	757.97 10" E (EX); 757.88 15" N & S
S-42	72+49	16.2' LT	CATCH BASIN, TYPE A, 4' DIA	TY 11V F&G	762.78 EP	758.33 8" W (EX); 757.22 15" N & S

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-34	SS, CL A, TYPE 3	400	36	0.10%	1126.6
P-39	SS, CL A, TYPE 1	147	12	0.42%	25.4
P-40	SS, CL A, TYPE 1	178	15	0.17%	46.1
P-41	SS, CL A, TYPE 1	221	15	0.30%	149.4
P-42	SEE SHEET 50				

SUNSET DRIVE



761.54 761.64	761.35 761.41	761.16 761.18	760.90 760.95	761.07 761.22	761.45 761.48	761.70 761.75	762.02 762.09	762.35 762.42	762.63 762.76	762.85 763.06	762.86 763.07	762.56 762.72
67+00	67+50	68+00	68+50	69+00	69+50	70+00	70+50	71+00	71+50	72+00	72+50	73+00

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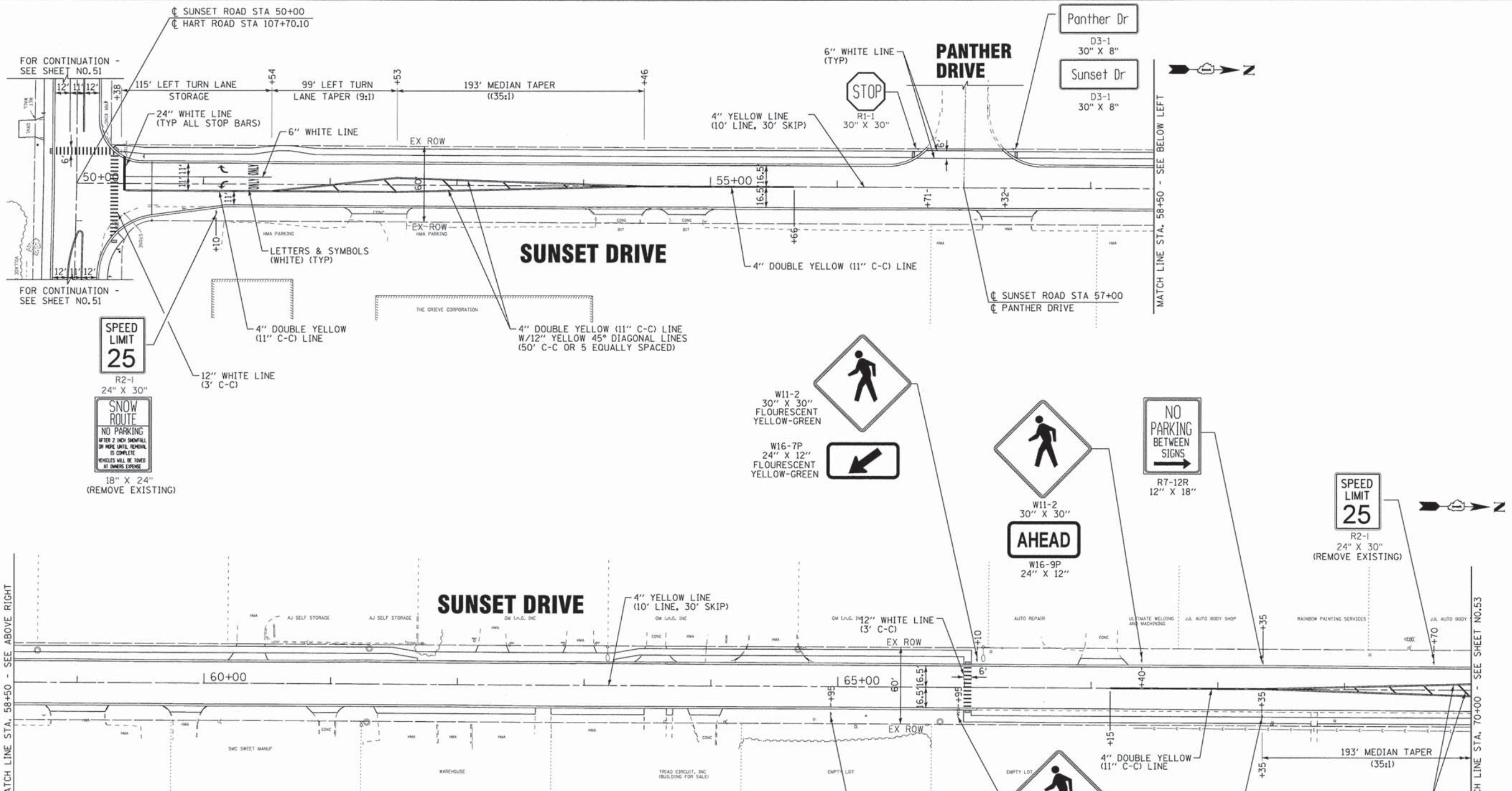
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
SUNSET DRIVE

SCALE: H: 1"=20' V: 1"=5'
STA. 67+00 TO STA. 73+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	49
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-9003(482)				

HART ROAD



- NOTES:**
1. ALL PAVEMENT MARKING IS THERMOPLASTIC PAVEMENT MARKING.
 2. ALL PAVEMENT MARKING SHALL BE INSTALLED ACCORDING TO THE IDOT DISTRICT ONE DETAIL FOR TYPICAL PAVEMENT MARKINGS (TC-13) AND HIGHWAY STANDARD 780001.
 3. ALL PROPOSED SIGNS SHALL MEET CURRENT MUTCD REQUIREMENTS.
 4. ALL PROPOSED SIGNS TO BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS, UNLESS OTHERWISE SPECIFIED.
 5. ALL EXISTING SIGNS TO BE REMOVED (NOT RELOCATED) SHALL BE PAID FOR AS REMOVE SIGN PANEL ASSEMBLY - TYPE A, WHICH INCLUDES THE SIGN PANEL, HARDWARE AND POST AND DISPOSAL ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
 6. ALL SIGNS SHOWN ON THIS PLAN ARE PROPOSED SIGNS. PROPOSED SIGNS THAT REPLACE EXISTING SIGNS HAVE "REMOVE EXISTING" SHOWN UNDER THE PROPOSED SIGN AND SHALL BE PAID FOR SEPARATELY ACCORDING TO NOTE 5 ABOVE.

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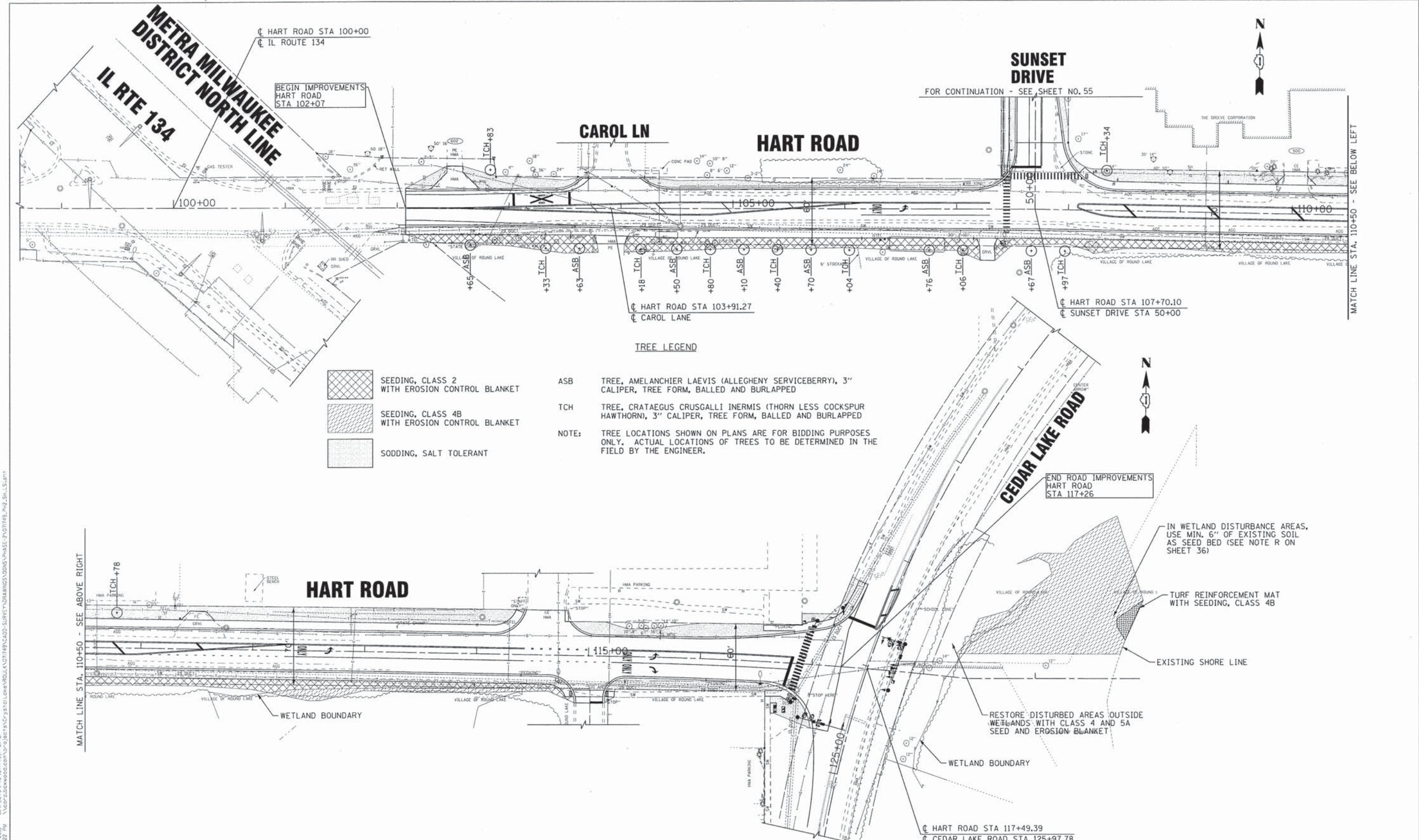
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
SUNSET DRIVE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	52
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 (ILLINOIS)		FED. AID PROJECT M-9003(482)		

SCALE: 1"=40' STA. 50+00 TO STA. 70+00



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 06/20/13

- TREE LEGEND**
- SEEDING, CLASS 2 WITH EROSION CONTROL BLANKET
 - SEEDING, CLASS 4B WITH EROSION CONTROL BLANKET
 - SODDING, SALT TOLERANT
 - ASB TREE, AMELANCHIER LAEVIS (ALLEGHENY SERVICEBERRY), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED
 - TCH TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED
- NOTE: TREE LOCATIONS SHOWN ON PLANS ARE FOR BIDDING PURPOSES ONLY. ACTUAL LOCATIONS OF TREES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

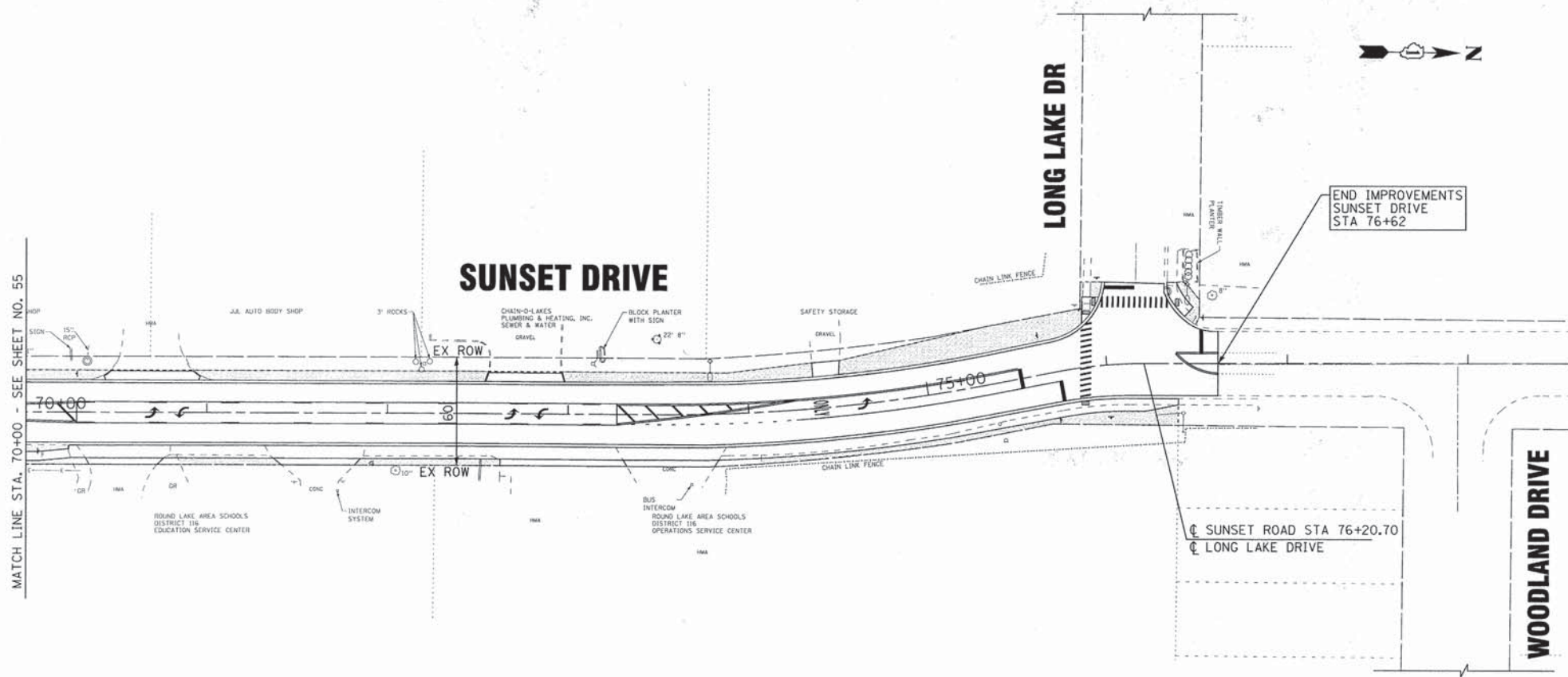
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DRAWN - MAC	REVISED -
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DATE - 06/20/13	FILE - 071749_PH2_SH_LS1.SH1

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
HART ROAD**

SCALE: 1"=40'
STA. 102+07 TO STA. 117+26

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	54
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 (ILLINOIS)		FED. AID PROJECT M-9003(482)		



MATCH LINE STA. 70+00 - SEE SHEET NO. 55

END IMPROVEMENTS
SUNSET DRIVE
STA 76+62

☉ SUNSET ROAD STA 76+20.70
☉ LONG LAKE DRIVE

 SODDING, SALT TOLERANT

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DATE - 06/20/13	FILE - 071749-PH2-SH-LS3.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
SUNSET DRIVE

SCALE: 1"=40'

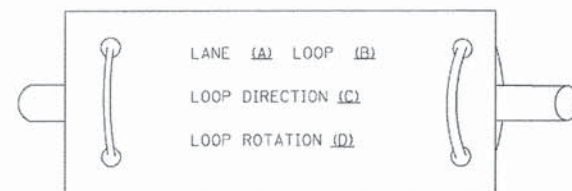
STA. 50+00 TO STA. 70+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

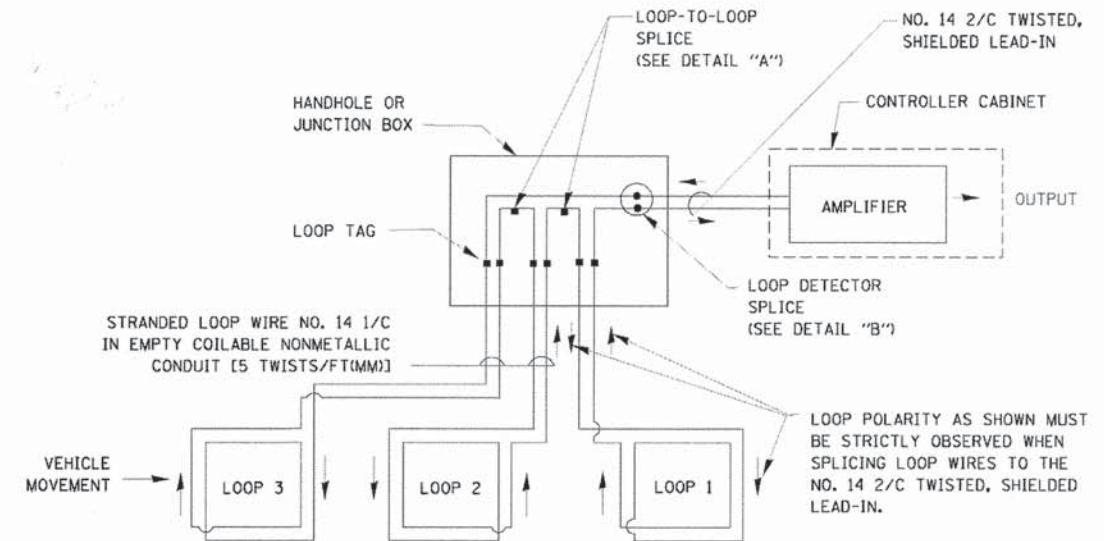
LOOP DETECTOR NOTES

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES 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.
- 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.
- 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

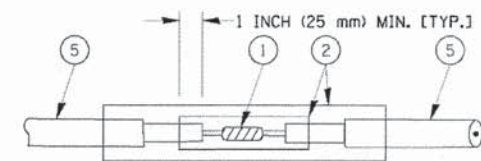


- LANE #1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

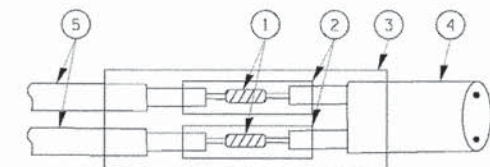


DETECTOR LOOP WIRING SCHEMATIC

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

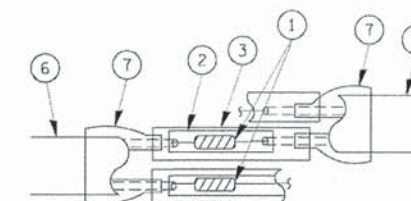


DETAIL "A"
LOOP-TO-LOOP SPLICE

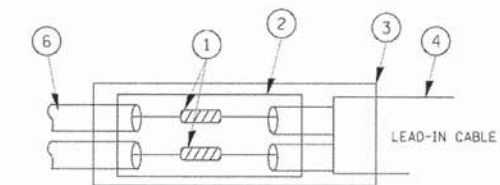


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



PRE-FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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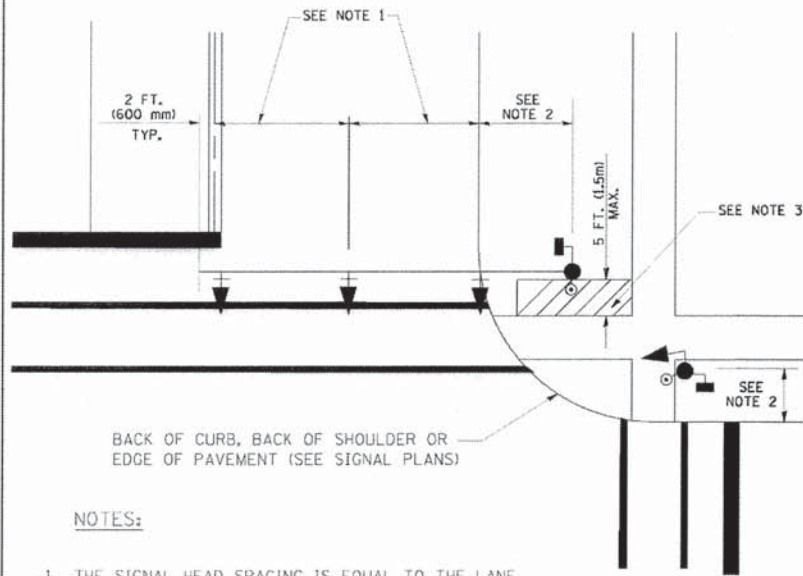
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RTE.	00-0025-00-FP	LAKE	98	57
0201	C-91-070-10	LAKE	98	57
	TS-05			
				CONTRACT NO. 63868
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)

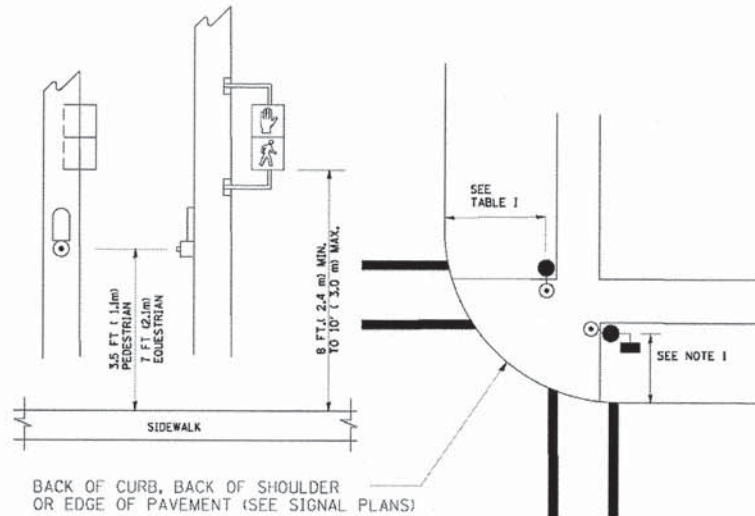
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
 MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

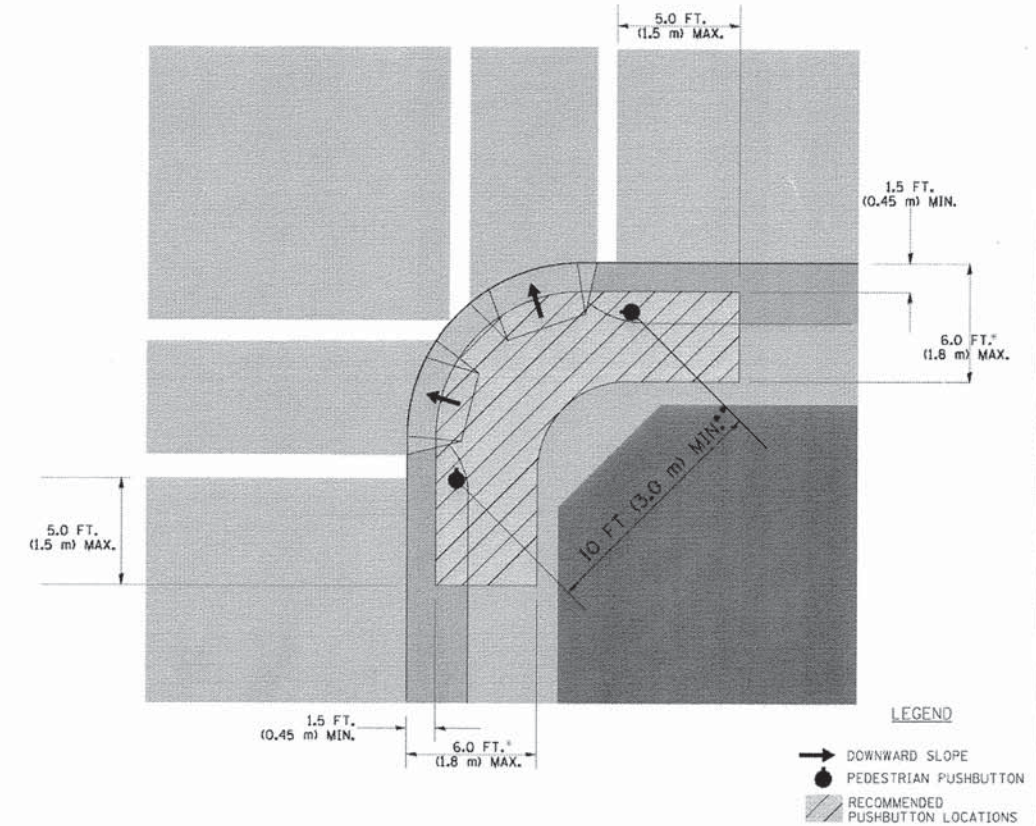
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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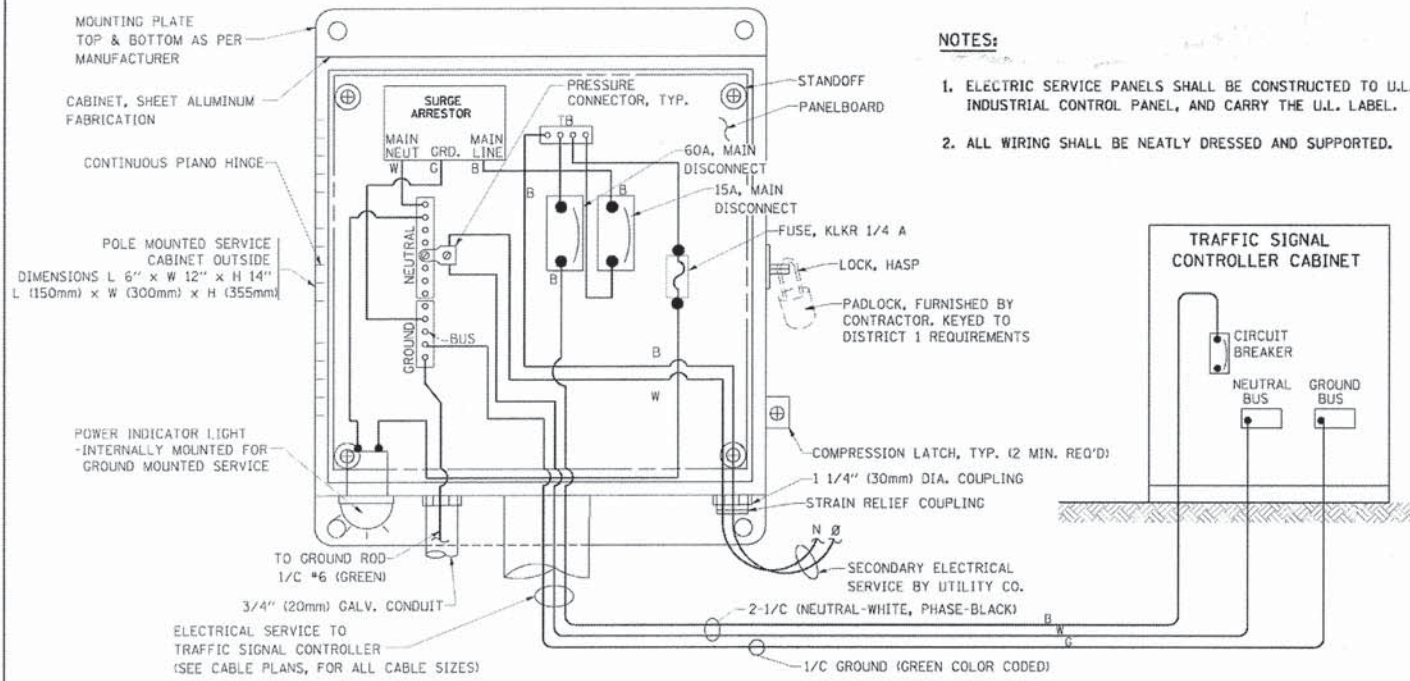
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

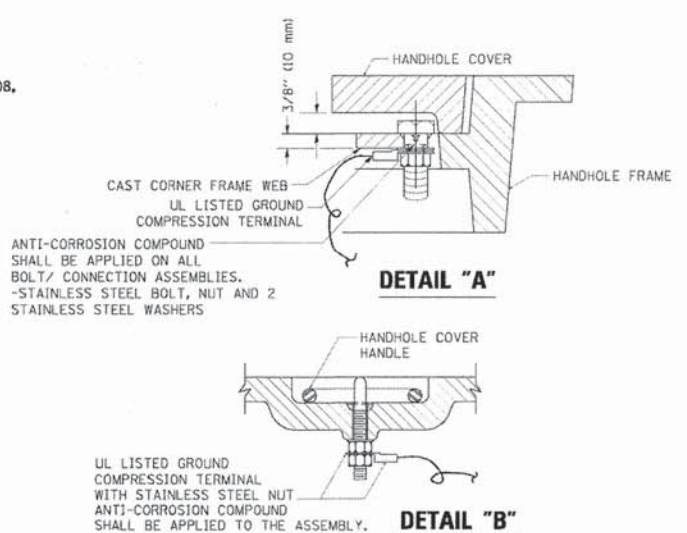
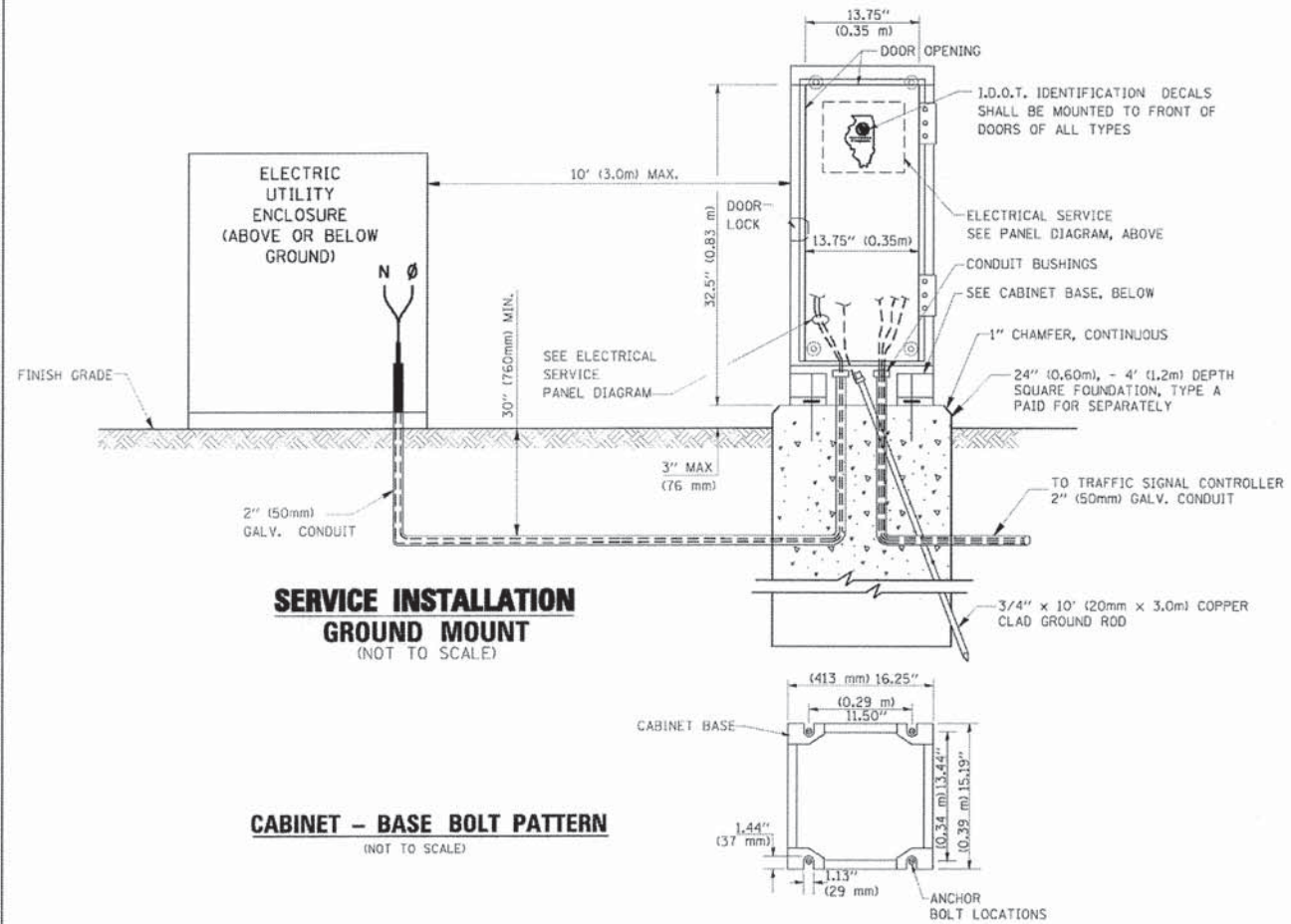
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

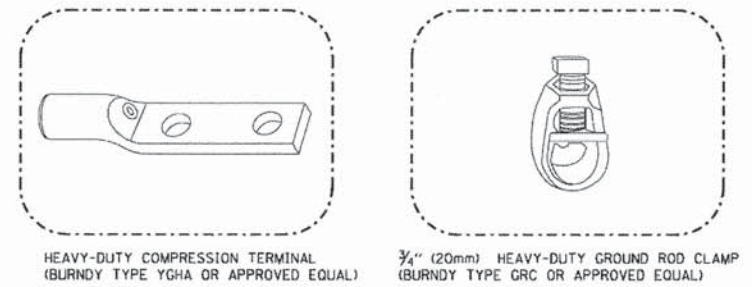
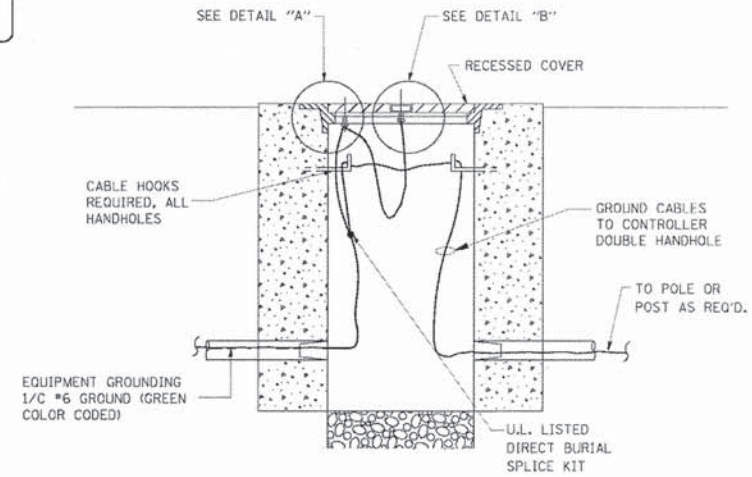
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C-91-070-10 TS-05		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



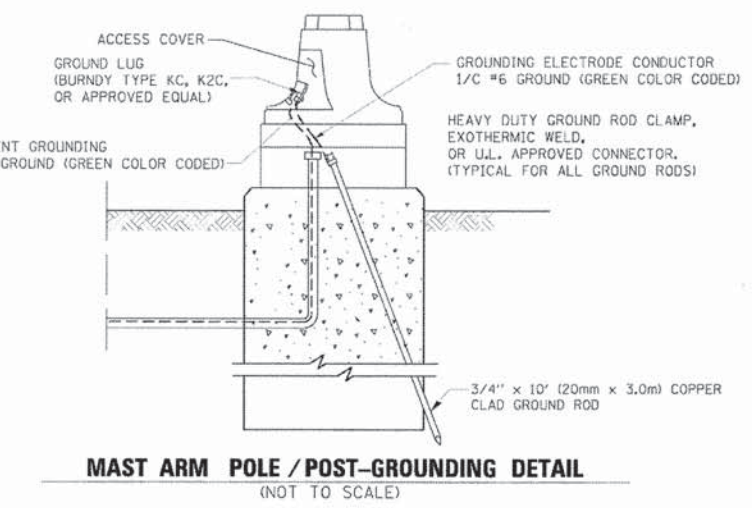
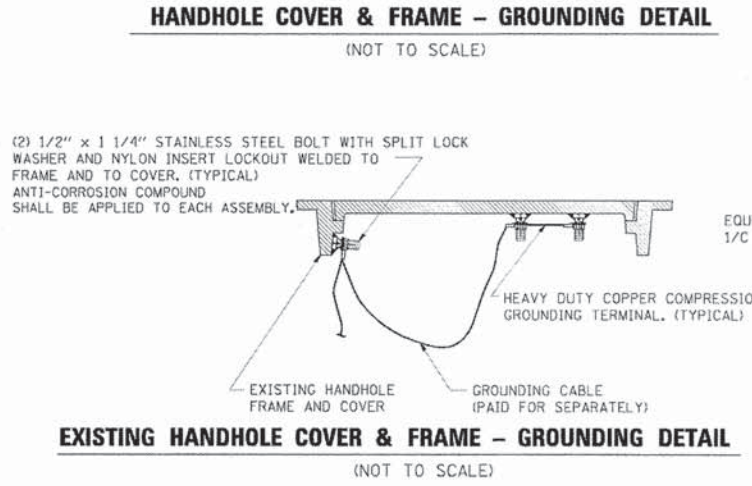
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



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

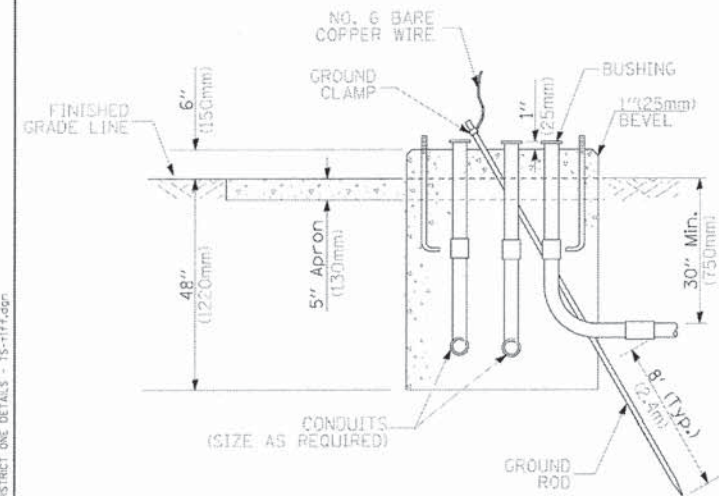
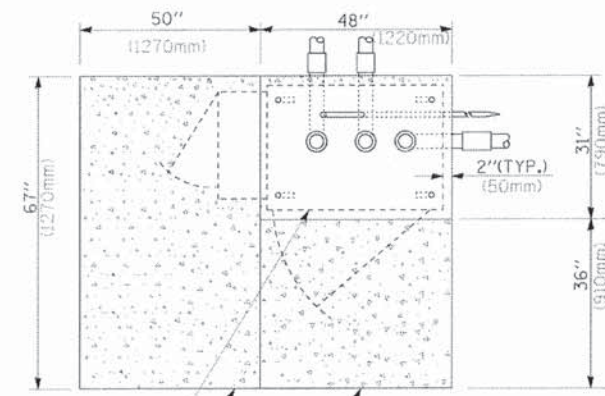


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND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

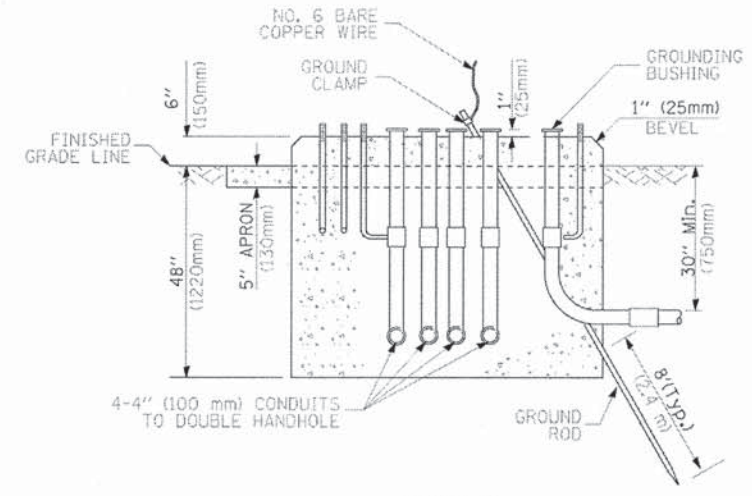
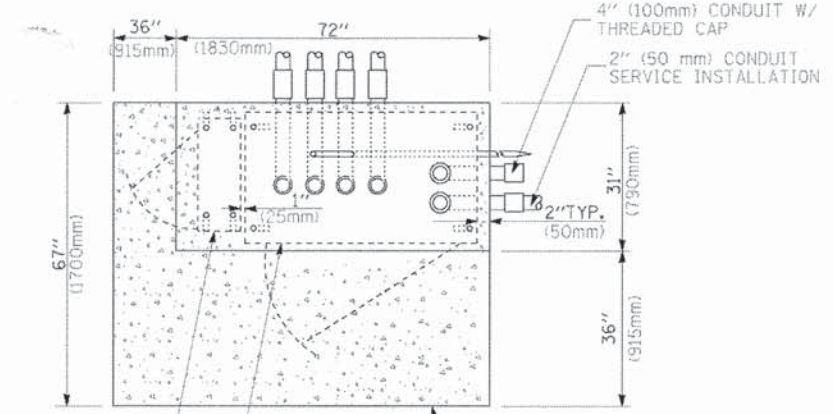


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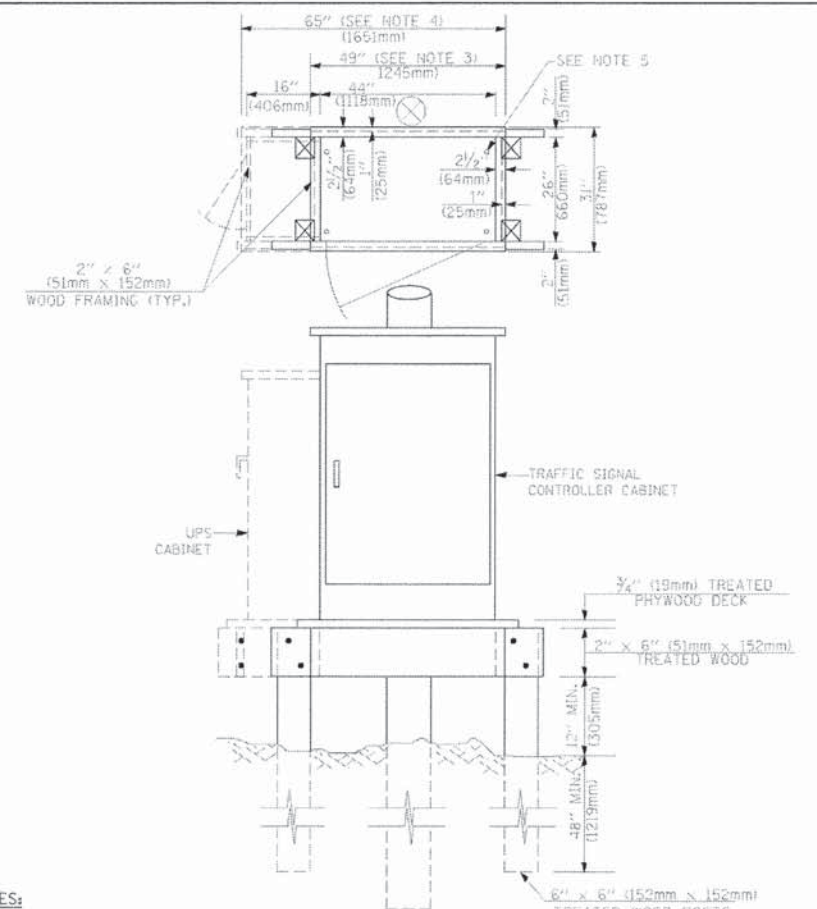
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		DRAWN: BCK	REVISED:			0201	00-00025-00-FP	LAKE	98	59	
		CHECKED: DAD	REVISED:			C-91-070-10	TS-05				CONTRACT NO. 63868
		DATE: 10-28-09	REVISED:			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)					
SCALE: NONE		SHEET NO. 3 OF 6 SHEETS		STA.	TO STA.						



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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 LICENSE NO. 38-00021 - EXPIRES 7/30/2013
 23340
 FILE NAME: C:\Users\jgallagher\Documents\Projects\TS-05\Drawings\Phase 2\DISTRICT ONE DETAILS - TS-1114.dwg
 USER NAME: jgallagher
 DESIGNED: DAG
 DRAWN: BCK
 CHECKED: DAD
 DATE: 10-28-09
 PLOT SCALE: 50.0000 / IN.
 PLOT DATE: 11/4/2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	61
C-91-070-10 TS-05			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

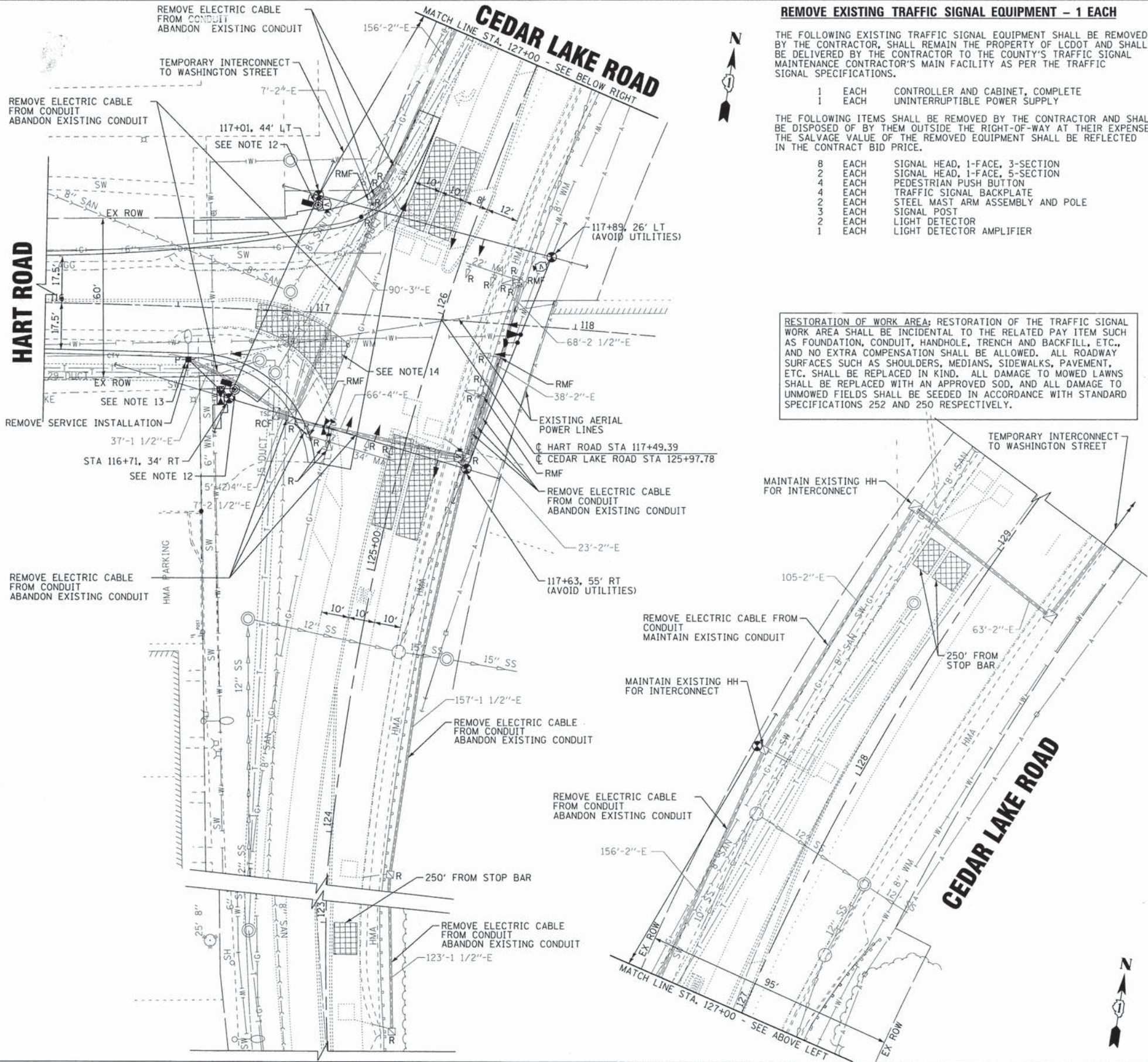
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD CONTROL CABINET			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				FLASHING SIGNAL			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				CROSSING GATE			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSBUCK			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

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NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT. WIRELESS INTERCONNECT IS ACCEPTABLE FOR TEMPORARY INTERCONNECT INSTALLATION WITH APPROVAL OF THE ENGINEER. IF WIRELESS INTERCONNECT IS USED, IT MUST HAVE THE CAPABILITY TO TRANSMIT VIDEO IMAGERY IN ADDITION TO PROVIDING WIRELESS COMMUNICATION WITH THE TRAFFIC SIGNAL SYSTEM. THE FURNISHING, INSTALLATION, AND MAINTENANCE OF ANY TEMPORARY TRAFFIC SIGNAL INTERCONNECT SYSTEM, INCLUDING WIRELESS INTERCONNECT, SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT ONE AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
- SEE LAKE COUNTY DETAILS FOR TEMPORARY VIDEO DETECTION MOUNTING DETAIL.
- PROVIDE TEMPORARY PAVED ACCESS TO TEMPORARY PUSH BUTTONS UTILIZING INCIDENTAL HMA SURFACING. REMOVAL OF TEMPORARY SURFACE SHALL BE INCLUDED IN THE COST OF THE TEMPORARY SIGNAL.
- THE EXISTING SIGNAL SERVICE IS LOCATED ON A POWER POLE TO BE RELOCATED. COORDINATION WILL BE REQUIRED WITH COMED FOR PROPOSED LOCATION OF NEW SERVICE FOR THE TEMPORARY AND PERMANENT SIGNALS.
- ADJUST VIDEO DETECTION ZONES AS STAGING REQUIRES.



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EACH

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF LCDOT AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1	EACH	CONTROLLER AND CABINET, COMPLETE
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.		
8	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
3	EACH	SIGNAL POST
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

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

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 PROJECT: 071749-PH2-SH-Temp-Sigs.sht
 DATE: 06/20/13
 DRAWN: UKB
 CHECKED: RWL
 DATE: 06/20/13



DESIGNED - DSH	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749-PH2-SH-Temp-Sigs.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL PLAN
AND TRAFFIC SIGNAL REMOVAL PLAN
HART ROAD AND CEDAR LAKE ROAD**

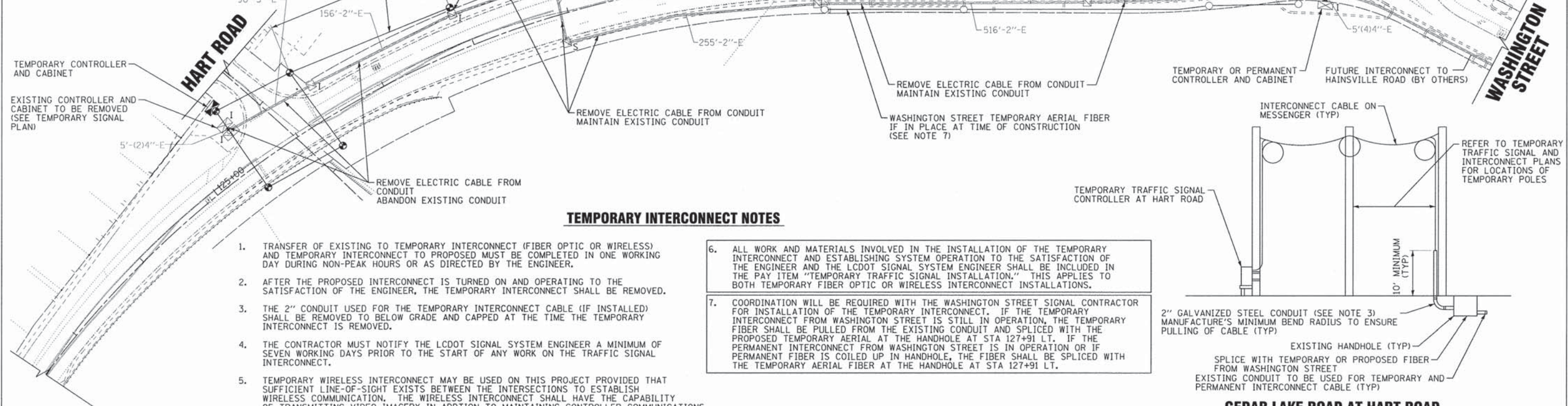
SCALE: 1"=20'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	63
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

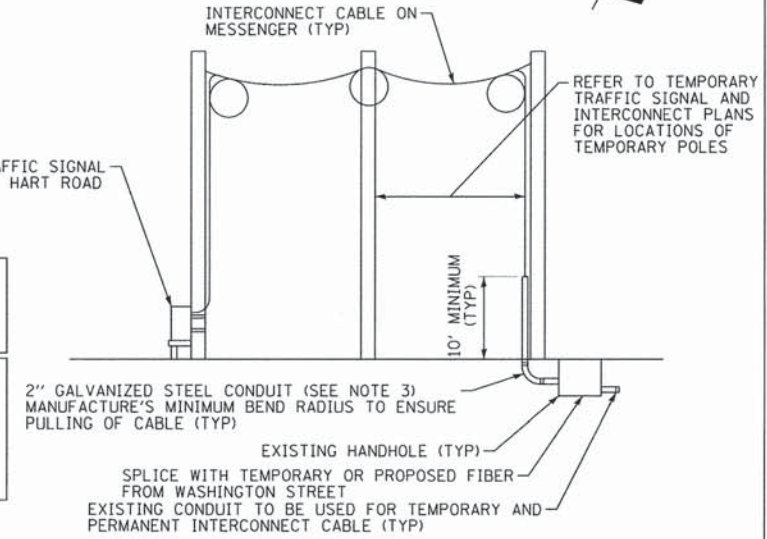
INTERCONNECT PLAN LEGEND

	EXISTING	PROPOSED
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
COMMON TRENCH		CT
UNIT DUCT		UD
SYSTEM		S
INTERSECTION	I	IP

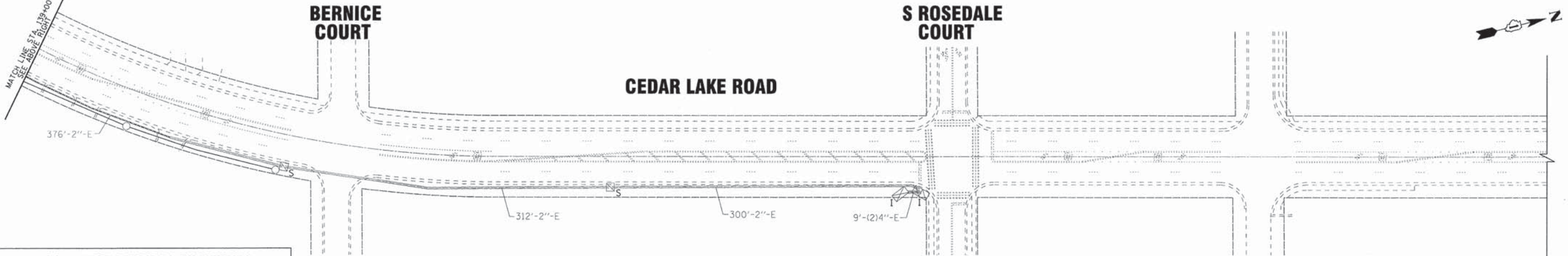


TEMPORARY INTERCONNECT NOTES

- TRANSFER OF EXISTING TO TEMPORARY INTERCONNECT (FIBER OPTIC OR WIRELESS) AND TEMPORARY INTERCONNECT TO PROPOSED MUST BE COMPLETED IN ONE WORKING DAY DURING NON-PEAK HOURS OR AS DIRECTED BY THE ENGINEER.
- AFTER THE PROPOSED INTERCONNECT IS TURNED ON AND OPERATING TO THE SATISFACTION OF THE ENGINEER, THE TEMPORARY INTERCONNECT SHALL BE REMOVED.
- THE 2" CONDUIT USED FOR THE TEMPORARY INTERCONNECT CABLE (IF INSTALLED) SHALL BE REMOVED TO BELOW GRADE AND CAPPED AT THE TIME THE TEMPORARY INTERCONNECT IS REMOVED.
- THE CONTRACTOR MUST NOTIFY THE LCDOT SIGNAL SYSTEM ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE TRAFFIC SIGNAL INTERCONNECT.
- TEMPORARY WIRELESS INTERCONNECT MAY BE USED ON THIS PROJECT PROVIDED THAT SUFFICIENT LINE-OF-SIGHT EXISTS BETWEEN THE INTERSECTIONS TO ESTABLISH WIRELESS COMMUNICATION. THE WIRELESS INTERCONNECT SHALL HAVE THE CAPABILITY OF TRANSMITTING VIDEO IMAGERY IN ADDITION TO MAINTAINING CONTROLLER COMMUNICATIONS FOR THE TRAFFIC SIGNAL SYSTEM. IF THE WIRELESS INTERCONNECT DOES NOT FUNCTION TO THE SATISFACTION OF THE ENGINEER AT INSTALLATION OR FAILS DURING CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL TEMPORARY FIBER OPTIC INTERCONNECT AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL WORK AND MATERIALS INVOLVED IN THE INSTALLATION OF THE TEMPORARY INTERCONNECT AND ESTABLISHING SYSTEM OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE LCDOT SIGNAL SYSTEM ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION." THIS APPLIES TO BOTH TEMPORARY FIBER OPTIC OR WIRELESS INTERCONNECT INSTALLATIONS.
- COORDINATION WILL BE REQUIRED WITH THE WASHINGTON STREET SIGNAL CONTRACTOR FOR INSTALLATION OF THE TEMPORARY INTERCONNECT. IF THE TEMPORARY INTERCONNECT FROM WASHINGTON STREET IS STILL IN OPERATION, THE TEMPORARY FIBER SHALL BE PULLED FROM THE EXISTING CONDUIT AND SPLICED WITH THE PROPOSED TEMPORARY AERIAL AT THE HANDHOLE AT STA 127+91 LT. IF THE PERMANENT INTERCONNECT FROM WASHINGTON STREET IS IN OPERATION OR IF PERMANENT FIBER IS COILED UP IN HANDHOLE, THE FIBER SHALL BE SPLICED WITH THE TEMPORARY AERIAL FIBER AT THE HANDHOLE AT STA 127+91 LT.



**CEDAR LAKE ROAD AT HART ROAD
AERIALLY SUPPORTED INTERCONNECT CABLE**
(NOT TO SCALE)



INTERCONNECT REMOVAL QUANTITIES

ITEM	UNIT	QTY
REMOVE ELECTRIC CABLE FROM CONDUIT	FEET	2572

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 PROJECT: 071749.PH2.SH.Temp.TS.Interconnect.sht
 DATE: 06/20/13



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DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749.PH2.SH.Temp.TS.Interconnect.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
CEDAR LAKE ROAD
HART ROAD TO SOUTH ROSEDALE COURT
SCALE: 1"=50'
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	65
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

S ROSEDALE COURT

DOROTHY LANE

HART ROAD

CEDAR LAKE ROAD

WASHINGTON STREET

HAINESVILLE ROAD

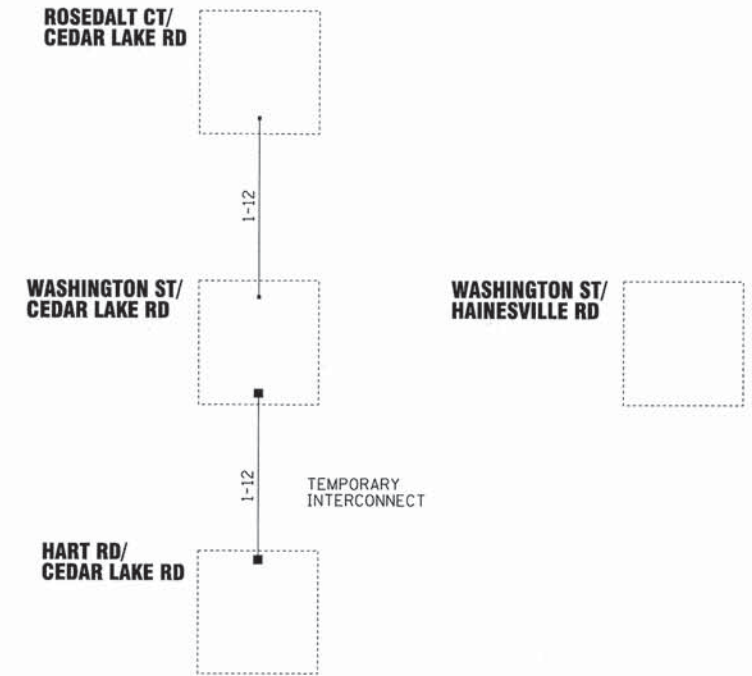
TEMPORARY INTERCONNECT
HART ROAD TO WASHINGTON STREET
(SEE NOTE)

FIBER OPTIC CABLE
NO. 625/125 SM12F, MM12F

EXISTING DSL
CONNECTION

FUTURE FIBER OPTIC CABLE INSTALLATION
(BY OTHERS)

NOTE:
COORDINATION WILL BE REQUIRED WITH THE WASHINGTON STREET SIGNAL CONTRACTOR FOR INSTALLATION OF THE TEMPORARY INTERCONNECT. IF THE TEMPORARY INTERCONNECT FROM WASHINGTON STREET IS STILL IN OPERATION, THE TEMPORARY FIBER SHALL BE PULLED FROM THE EXISTING CONDUIT AND SPLICED WITH THE PROPOSED TEMPORARY AERIAL AT THE HANDHOLE AT STATION 127+91 LT. IF THE PERMANENT INTERCONNECT FROM WASHINGTON STREET IS IN OPERATION OR IF PERMANENT FIBER IS COILED UP IN HANDHOLE, THE FIBER SHALL BE SPLICED WITH THE TEMPORARY AERIAL FIBER AT THE HANDHOLE AT STATION 127+91 LT.



**FIBER SPLICING DIAGRAM
CEDAR LAKE ROAD**

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CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_P02.SH-TS_TEMP_INTER-SHEMATIC.sht

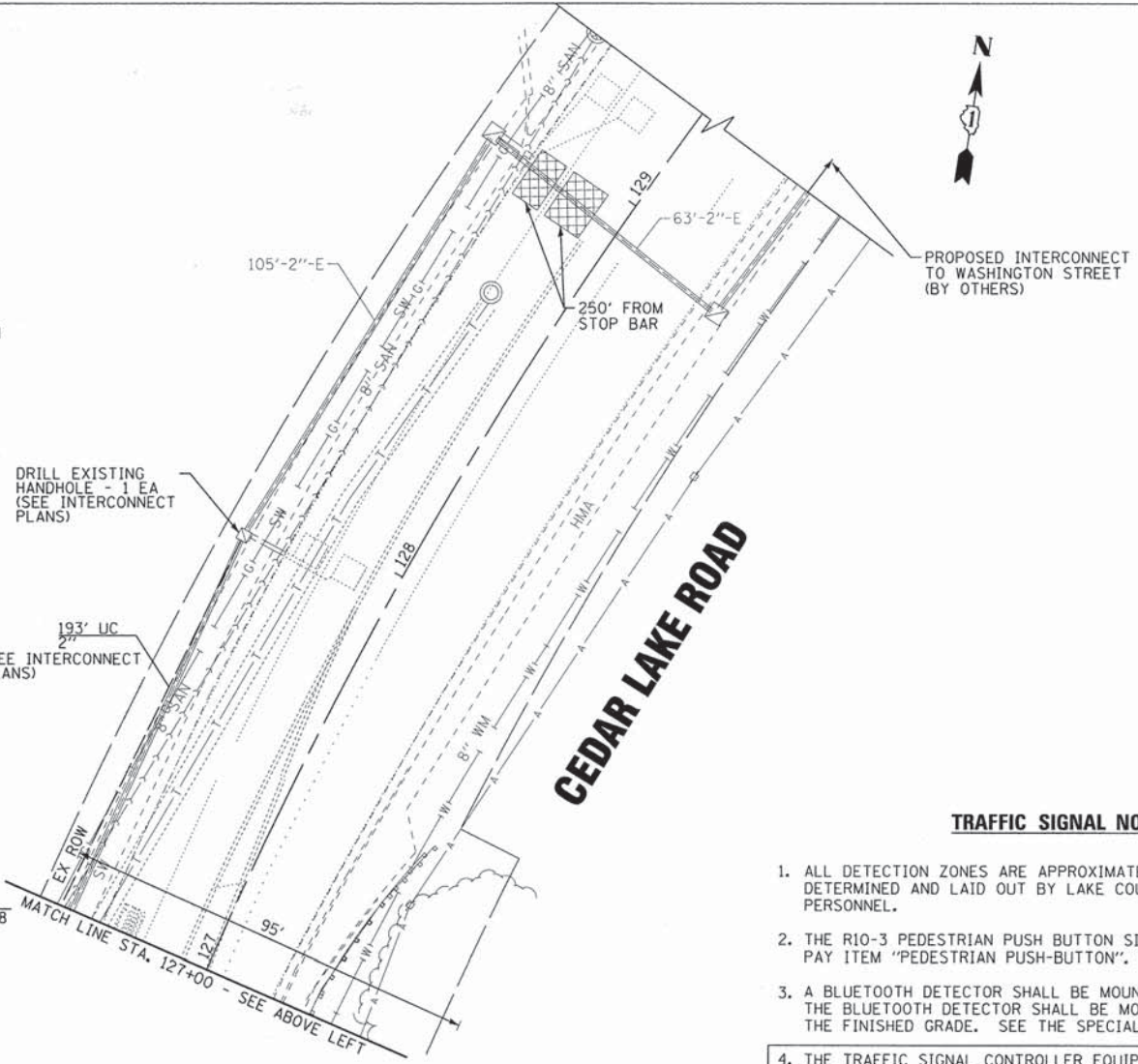
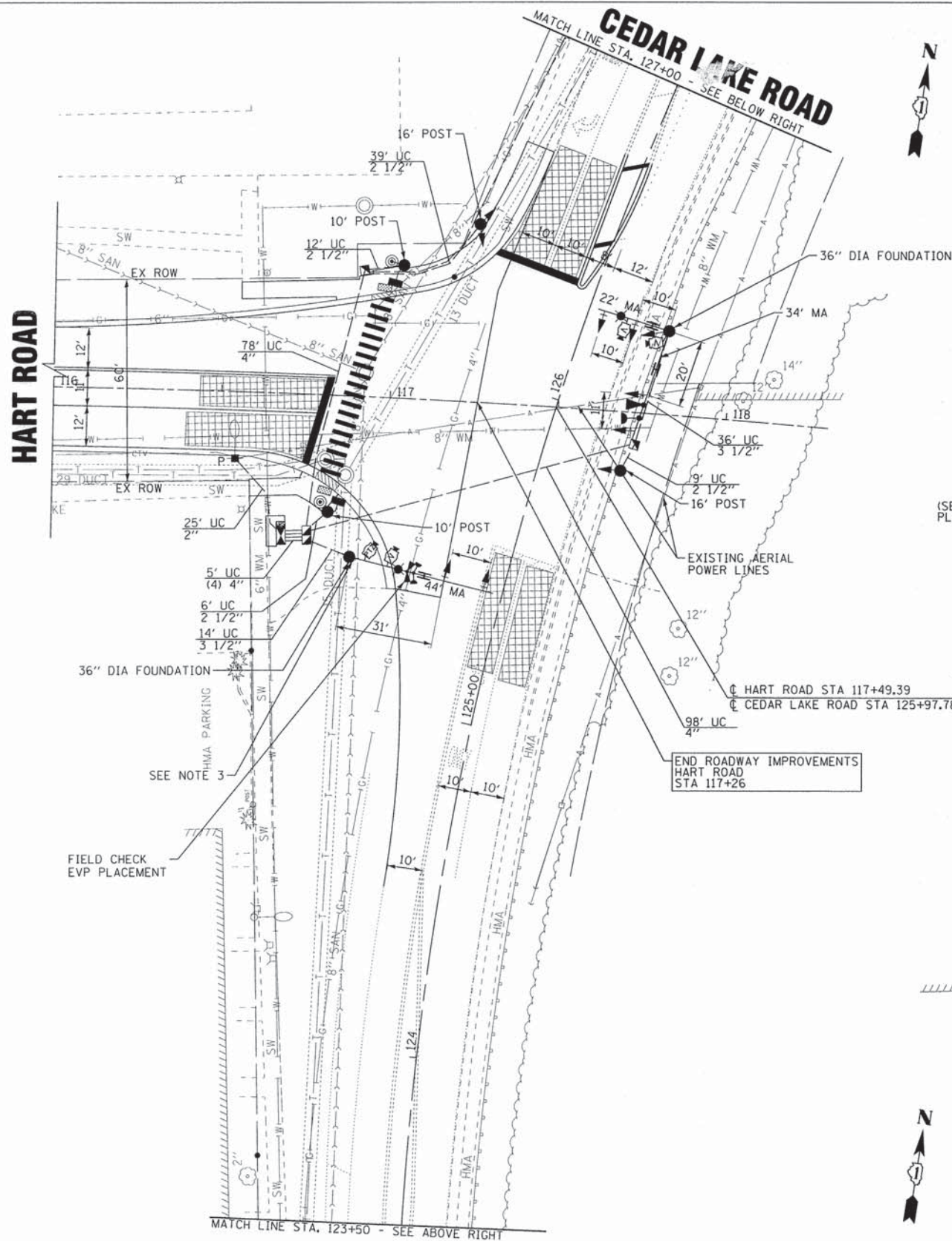
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC
CEDAR LAKE ROAD
HART ROAD TO SOUTH ROSEDALE COURT**

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	66
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT M-9003(482)	



TRAFFIC SIGNAL NOTES

1. ALL DETECTION ZONES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY LAKE COUNTY DIVISION OF TRANSPORTATION PERSONNEL.
2. THE R10-3 PEDESTRIAN PUSH BUTTON SIGNS ARE TO BE INCLUDED IN THE PAY ITEM "PEDESTRIAN PUSH-BUTTON".
3. A BLUETOOTH DETECTOR SHALL BE MOUNTED TO THE SOUTHWEST MAST ARM POLE. THE BLUETOOTH DETECTOR SHALL BE MOUNTED AT A MINIMUM OF 10 FEET ABOVE THE FINISHED GRADE. SEE THE SPECIAL PROVISIONS FOR MORE INFORMATION.
4. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP.
5. 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 LENGTHS.
6. 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.

TRAFFIC SIGNAL LEGEND

NOTE:
(SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

LED INTERNALLY ILLUMINATED STREET NAME SIGN

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

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 LICENSE NO. 184-000210 - EXPIRES 02/20/2015
 1100 N. WASHINGTON ST., SUITE 200, DEERFIELD, IL 60015
 847.939.2300
 2/3/2013



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CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2.SH_Sigs.shp

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
HART ROAD AND CEDAR LAKE ROAD**

SCALE: 1"=20' STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	67
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ.FT	50
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	66
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	196
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	660
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	583
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,330
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	375
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	48
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	394
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	31
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	FOOT	3,831
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	302
ROADSIDE DETECTOR	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	105
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	105
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	2
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
ELECTRIC CABLE IN CONDUIT, VIDEO NO. 18 3C	FOOT	580
VIDEO ENCODER	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	59
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 34 FT. (SPECIAL)	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW), 2-1/C NO. 10	FOOT	345

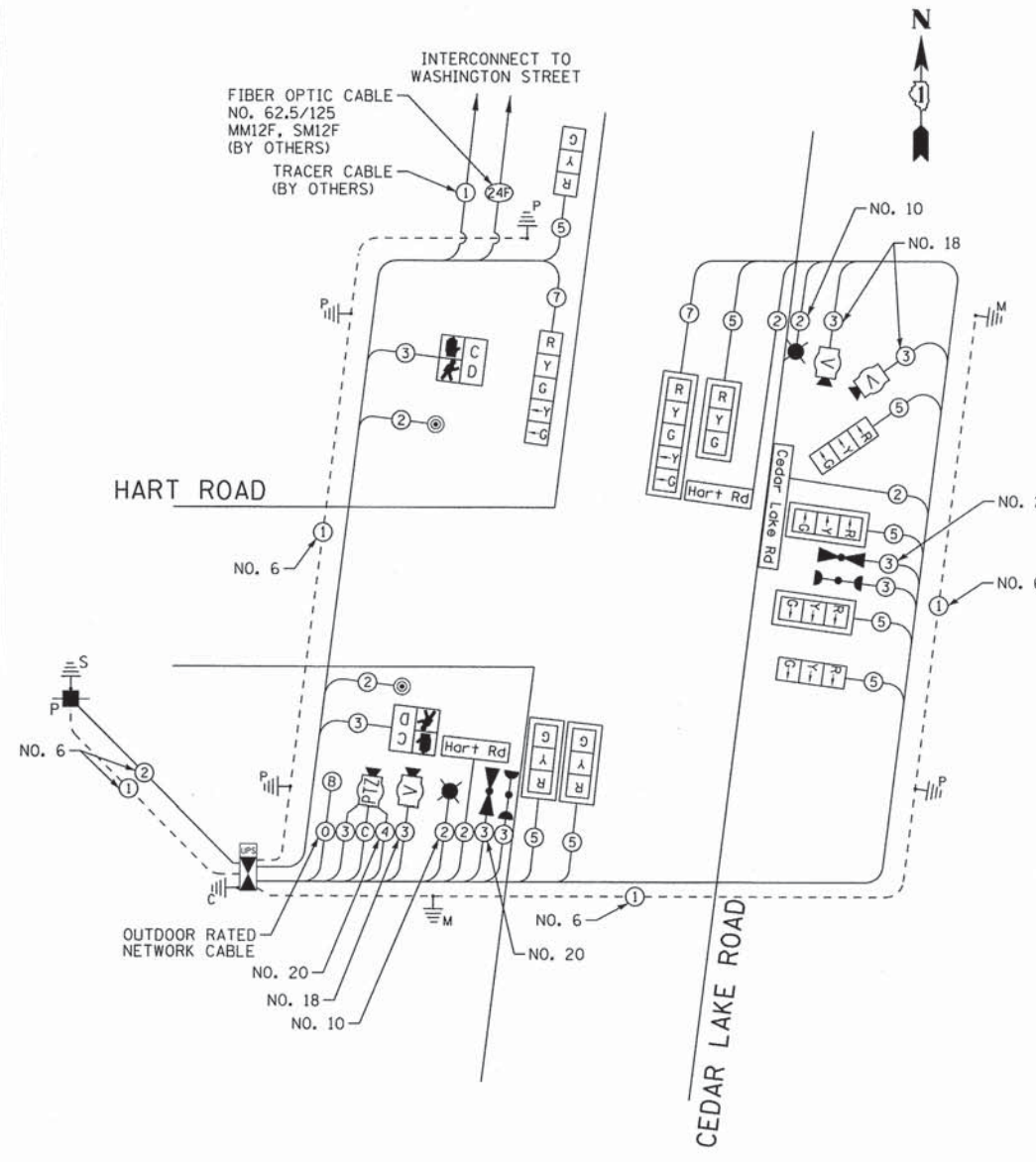
NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE [INCAND.]	WATTAGE LED	%OPERATION	
SIGNAL (RED)	6		17	0.50	51.00
(YELLOW)	6		25	0.25	37.50
(GREEN)	6		15	0.25	22.50
ARROW	16		12	0.10	19.20
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
LED ST. NAME SIGNS	3		64	0.50	96.00
VIDEO SYSTEM	1		150	1.00	150.00
LUMINAIRE	2	250		0.50	250.00
BATTERY BACKUP	1		25	1.00	25.00
FLASHER				0.50	
TOTAL =					801.20

ENERGY COSTS TO: LAKE COUNTY DIVISION OF TRANSPORTATION
600 W. WINCHESTER ROAD
LIBERTYVILLE, IL 60048

ENERGY SUPPLY CONTACT: KIM KANGAS
PHONE: (847) 816-5497
COMPANY: ComEd

DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2.SH.TS_Cable.sh

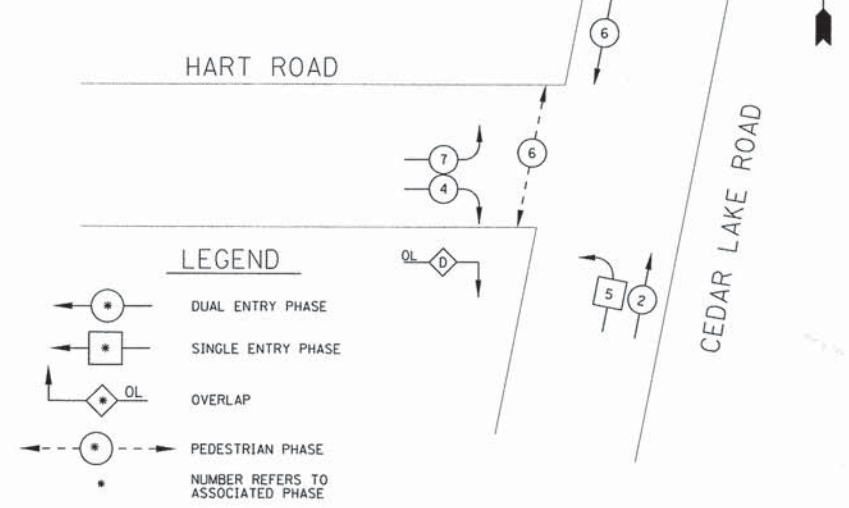


CABLE PLAN

- CABLE PLAN LEGEND
- (NOTE: SEE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)
- Hart Rd LED INTERNALLY ILLUMINATED STREET NAME SIGNS
 - Ⓟ BLUETOOTH DETECTOR (PAID FOR AS ROADSIDE DETECTOR)
 - ☼ LUMINAIRE

PROPOSED
CONTROLLER SEQUENCE

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 4	+ 5



PHASE DESIGNATION DIAGRAM

PROPOSED
EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	↑↑	↘

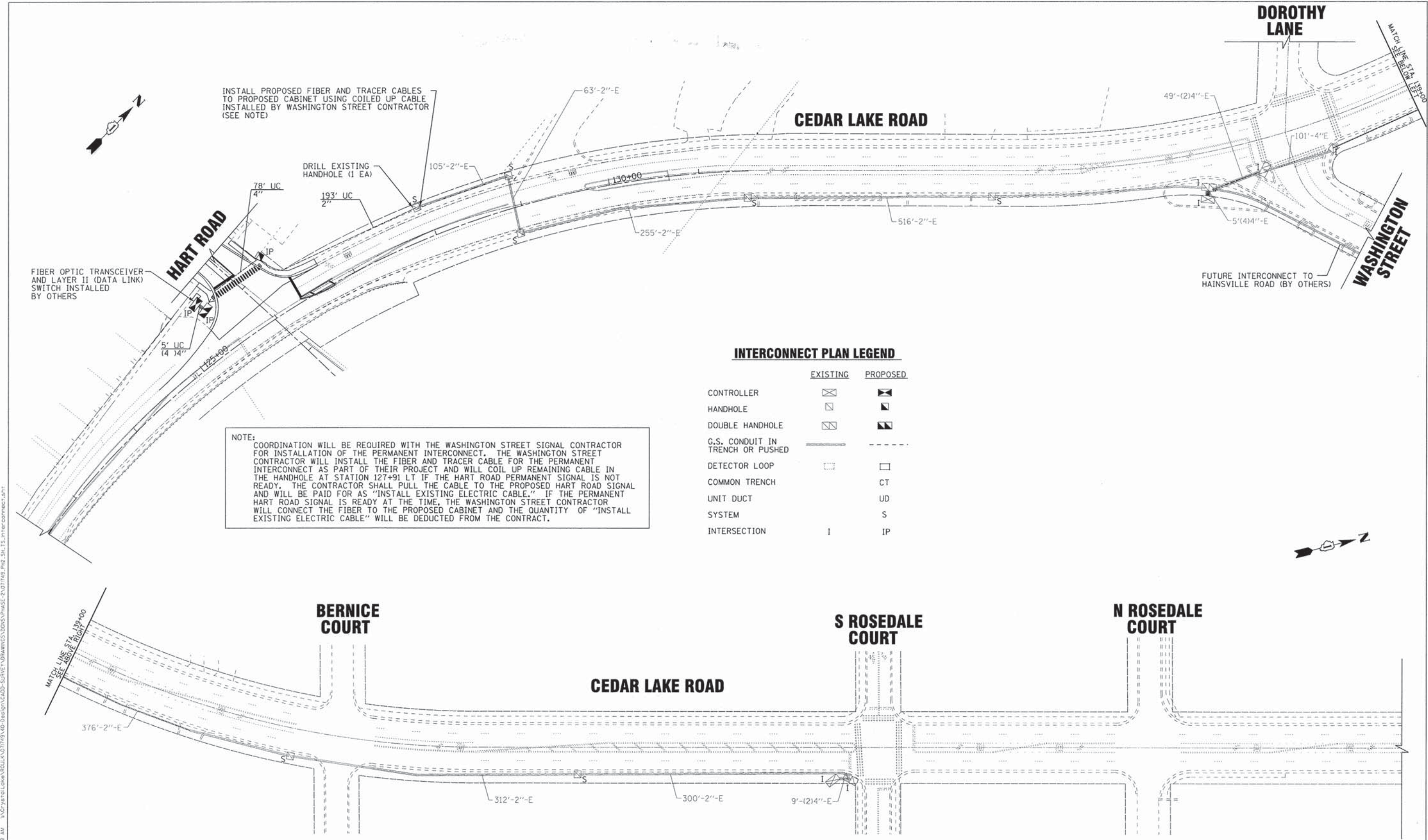
NOTE:
THE PRIORITY CONTROL SYSTEM EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM OR TOMAR.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES,
CABLE PLAN AND PHASE DESIGNATION DIAGRAM
HART ROAD AND CEDAR LAKE ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	68
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

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 PROJECT: 071749 PH2 SH TS Cable.sht
 DATE: 06/20/13
 DRAWN BY: MAC
 CHECKED BY: RWL
 DESIGNED BY: DSH



INSTALL PROPOSED FIBER AND TRACER CABLES TO PROPOSED CABINET USING COILED UP CABLE INSTALLED BY WASHINGTON STREET CONTRACTOR (SEE NOTE)

FIBER OPTIC TRANSCEIVER AND LAYER II (DATA LINK) SWITCH INSTALLED BY OTHERS

NOTE:
 COORDINATION WILL BE REQUIRED WITH THE WASHINGTON STREET SIGNAL CONTRACTOR FOR INSTALLATION OF THE PERMANENT INTERCONNECT. THE WASHINGTON STREET CONTRACTOR WILL INSTALL THE FIBER AND TRACER CABLE FOR THE PERMANENT INTERCONNECT AS PART OF THEIR PROJECT AND WILL COIL UP REMAINING CABLE IN THE HANDHOLE AT STATION 127+91 LT IF THE HART ROAD PERMANENT SIGNAL IS NOT READY. THE CONTRACTOR SHALL PULL THE CABLE TO THE PROPOSED HART ROAD SIGNAL AND WILL BE PAID FOR AS "INSTALL EXISTING ELECTRIC CABLE." IF THE PERMANENT HART ROAD SIGNAL IS READY AT THE TIME, THE WASHINGTON STREET CONTRACTOR WILL CONNECT THE FIBER TO THE PROPOSED CABINET AND THE QUANTITY OF "INSTALL EXISTING ELECTRIC CABLE" WILL BE DEDUCTED FROM THE CONTRACT.

INTERCONNECT PLAN LEGEND

	EXISTING	PROPOSED
CONTROLLER	☒	☒
HANDHOLE	☒	☒
DOUBLE HANDHOLE	☒	☒
G.S. CONDUIT IN TRENCH OR PUSHED	—	- - -
DETECTOR LOOP	☐	☐
COMMON TRENCH		CT
UNIT DUCT		UD
SYSTEM		S
INTERSECTION	I	IP

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 DATE: 06/20/13
 DRAWN: MAC
 CHECKED: RWL
 DATE: 06/20/13



DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749.PH2.SH.TS.Interconnect.sht

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN
 CEDAR LAKE ROAD
 HART ROAD TO SOUTH ROSEDALE COURT

SCALE: 1"=50'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	69
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

S ROSEDALE COURT

DOROTHY LANE

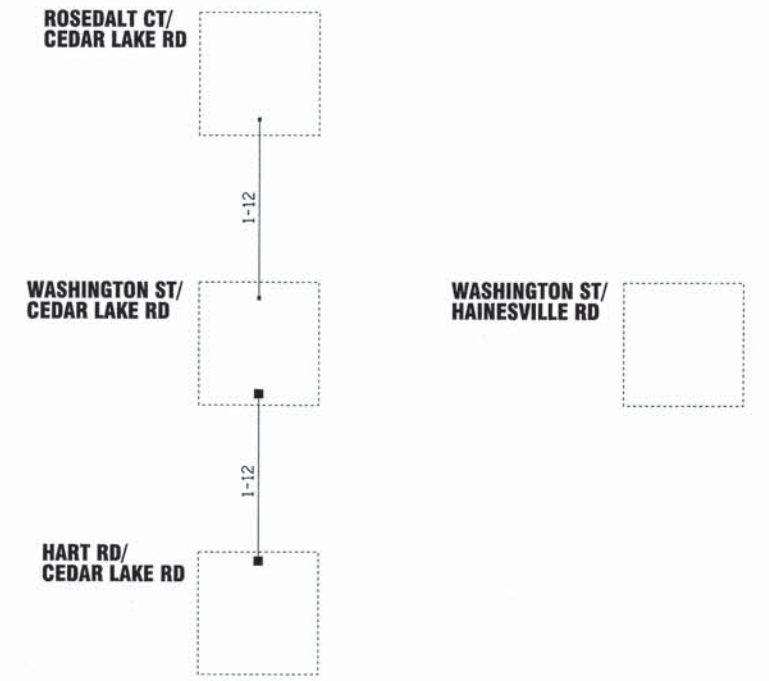
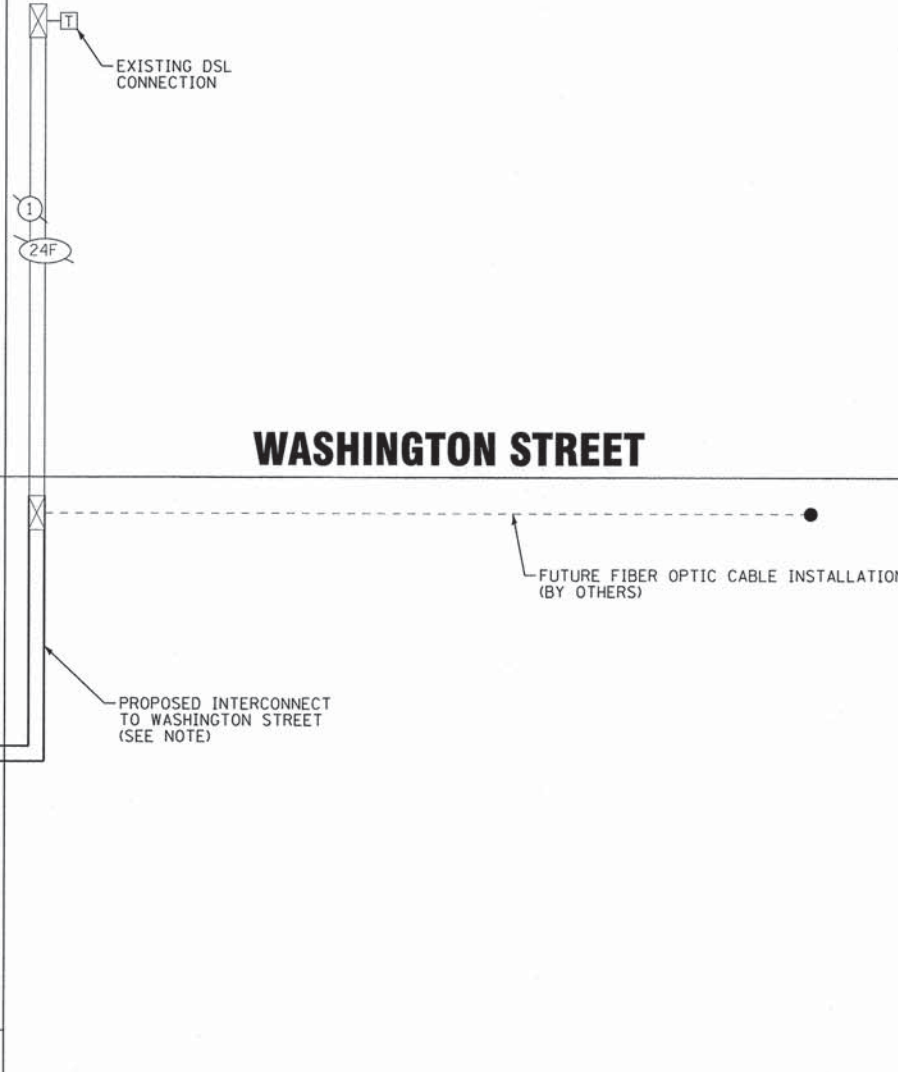
HART ROAD

CEDAR LAKE ROAD

WASHINGTON STREET

HAINESVILLE ROAD

NOTE:
 COORDINATION WILL BE REQUIRED WITH THE WASHINGTON STREET SIGNAL CONTRACTOR FOR INSTALLATION OF THE PERMANENT INTERCONNECT. THE FIBER AND TRACER CABLES WILL BE INSTALLED BY THE WASHINGTON STREET CONTRACTOR AND EITHER COILED UP IN THE HANDHOLE AT STATION 127+91 LT OR CONNECTED TO THE PERMANENT HART ROAD CABINET. IF COILED UP IN HANDHOLE, CONTRACTOR SHALL COMPLETE CONNECTION AND PAID FOR AS "INSTALL EXISTING ELECTRIC CABLE."



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

INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	193
DRILL EXISTING HANDHOLE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
INSTALL EXISTING ELECTRIC CABLE	FOOT	624

**FIBER SPLICING DIAGRAM
 CEDAR LAKE ROAD**

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 DATE: 06/20/13
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 CHECKED: RWL
 DESIGNED: DSH
 FILE: 071749-PH2-SH-TS-INTER-SCHMATIC.DWG



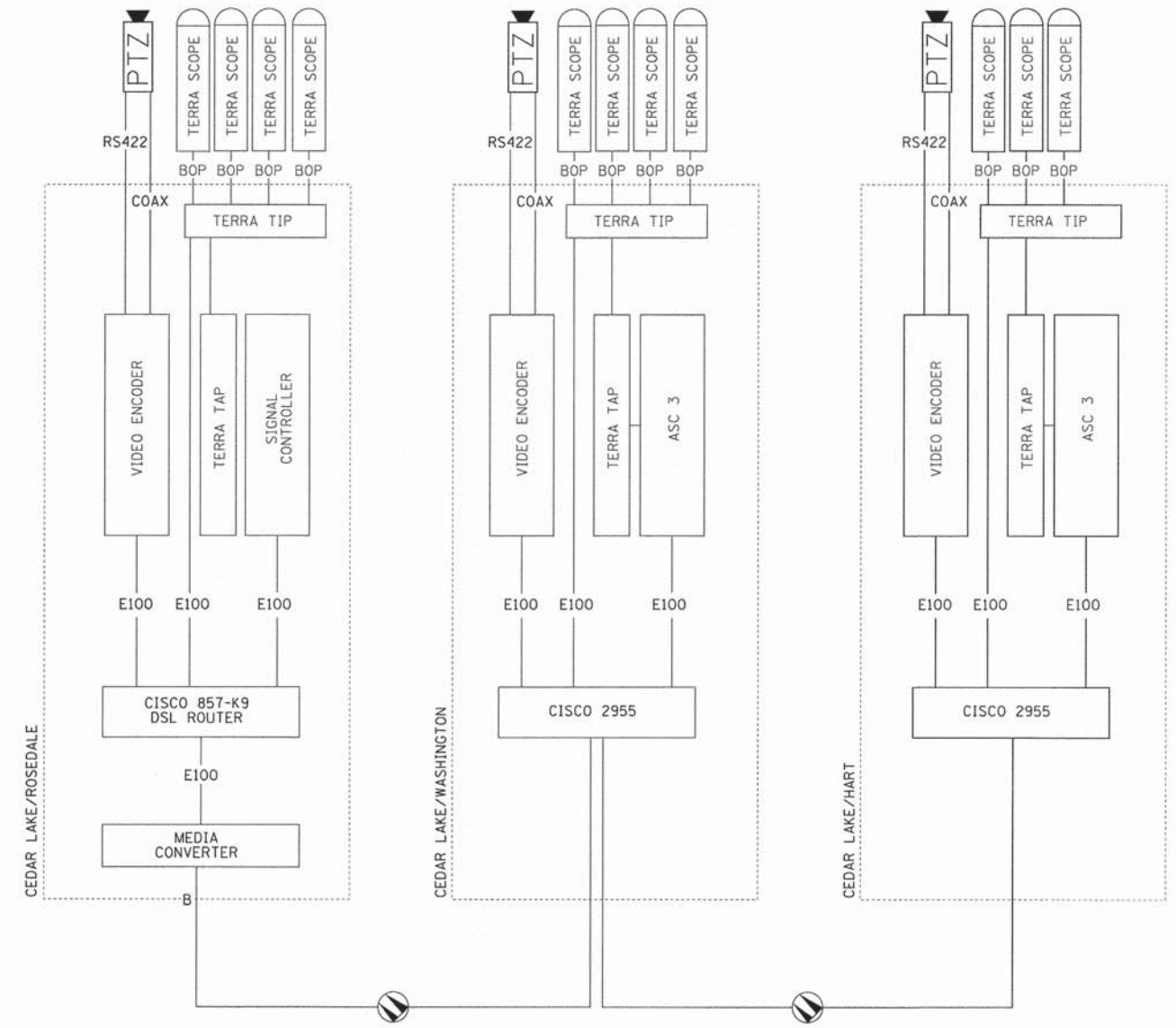
DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749-PH2-SH-TS-INTER-SCHMATIC.DWG

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INTERCONNECT SCHEMATIC
 CEDAR LAKE ROAD
 HART ROAD TO SOUTH ROSEDALE COURT**
 SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	70
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-900314821				

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 LICENSE NO. 184-0023 - EXPIRES 7/31/2015
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CABINET DETAILS



DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2.SH.TS.INTER-SHEMATIC.shx

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

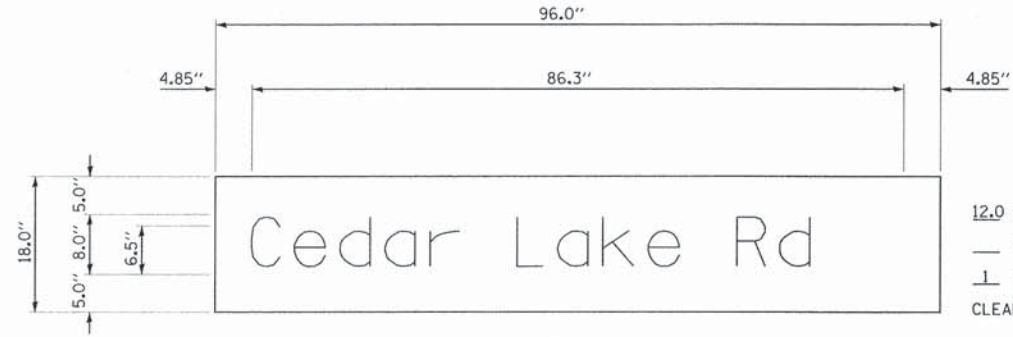
**LAKE COUNTY ATMS
TRAFFIC SIGNAL CABINET DETAILS
HART ROAD & CEDAR LAKE ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	71
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

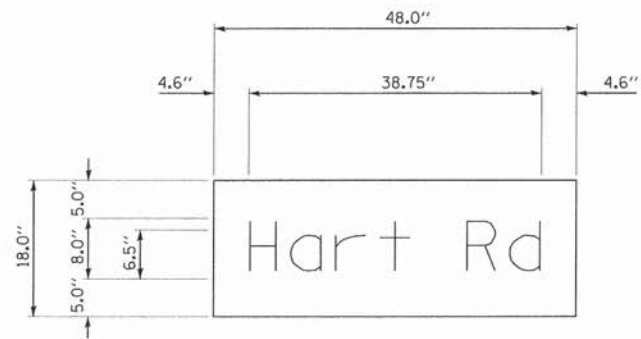
SCALE: NONE STA. TO STA.

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGNS

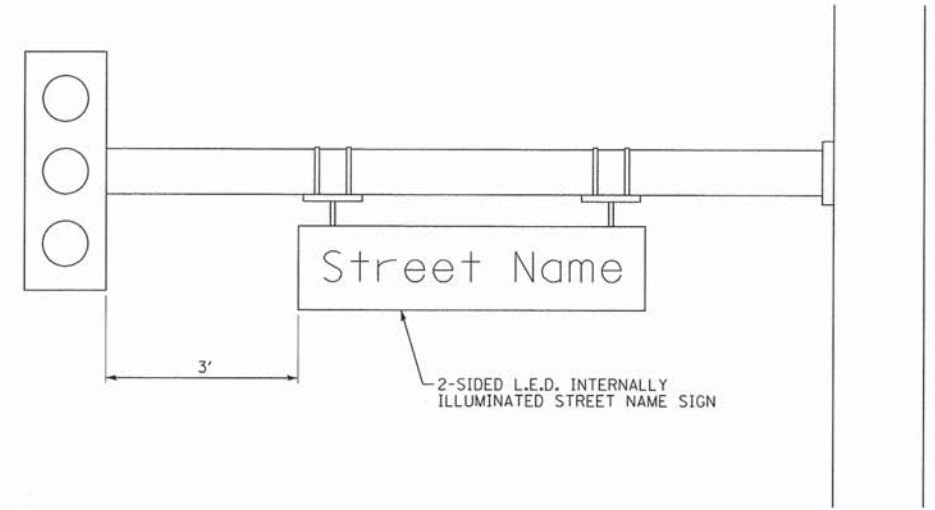


12.0 SO FT EACH
 — REQUIRED (DOUBLE SIDED)
 ⊥ REQUIRED (SINGLE SIDED)
 CLEARVIEW HWY 5-W-R FONT



6 SO FT EACH
 — REQUIRED (DOUBLE SIDED)
 ⊥ REQUIRED (SINGLE SIDED)
 CLEARVIEW HWY 5-W-R FONT

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



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DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
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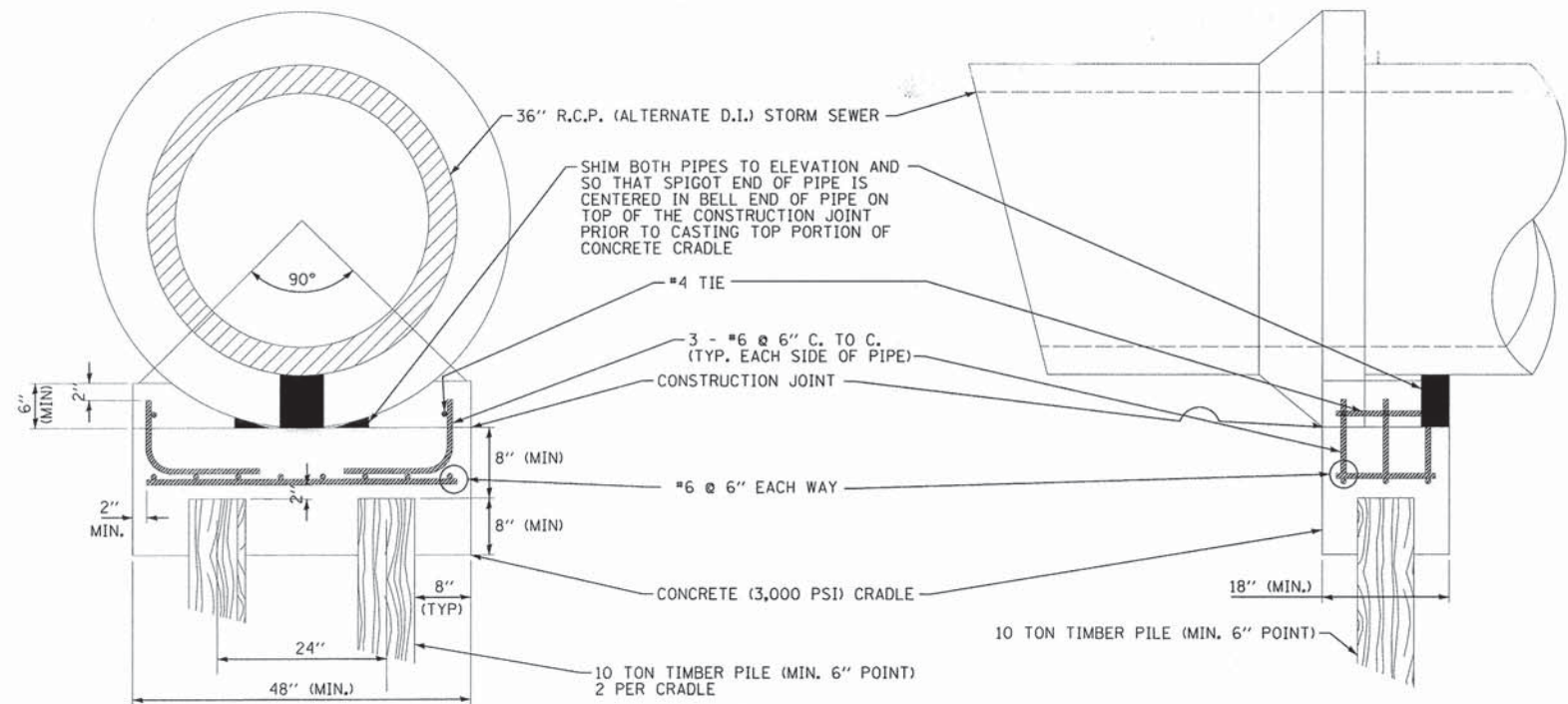
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED L.E.D.
 INTERNALLY ILLUMINATED STREET NAME SIGN DETAIL

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	72
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

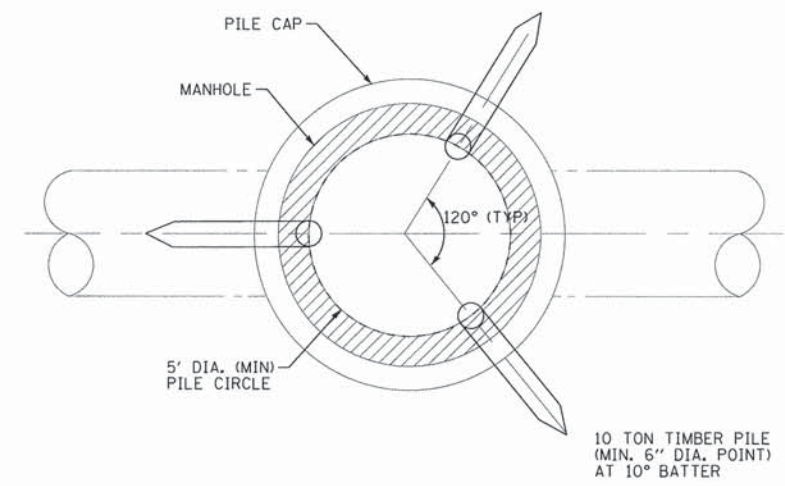


SHIM BOTH PIPES TO ELEVATION AND SO THAT SPIGOT END OF PIPE IS CENTERED IN BELL END OF PIPE ON TOP OF THE CONSTRUCTION JOINT PRIOR TO CASTING TOP PORTION OF CONCRETE CRADLE

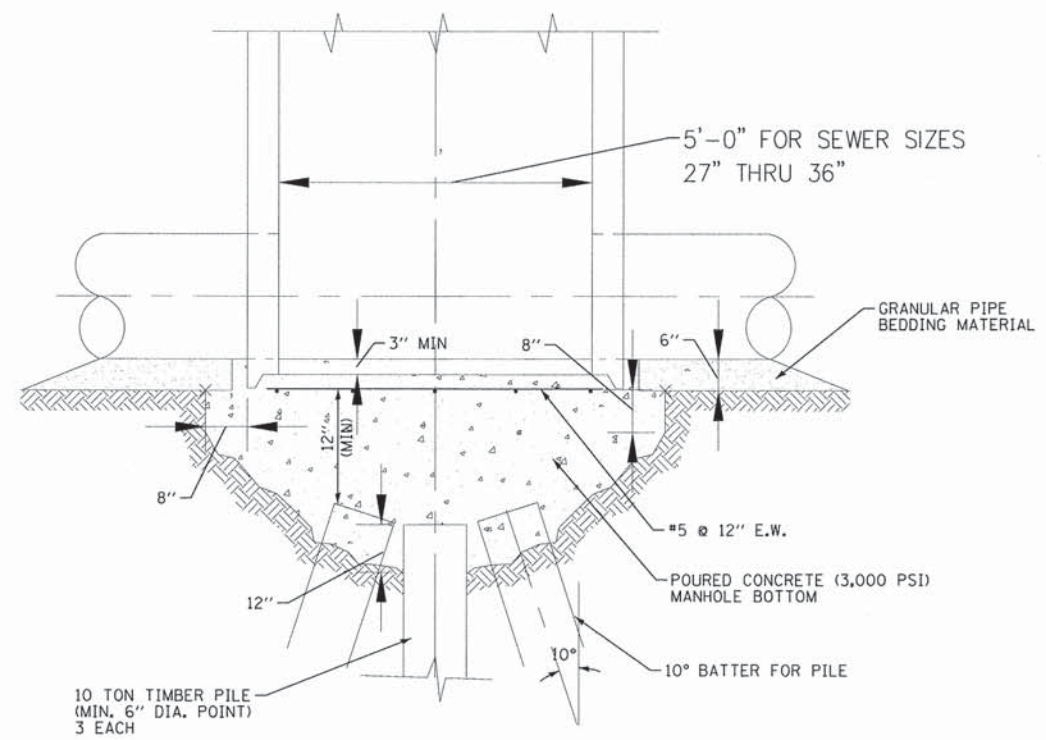
- NOTES:
1. INSTALL PILES AND CRADLE AT EACH PIPE JOINT SO BOTH PIPES ARE SUPPORTED
 2. FLARED END SECTION SUPPORT CONSTRUCTED SIMILARLY.

CONCRETE CRADLE / PILE PIPE SUPPORT DETAIL

NO SCALE



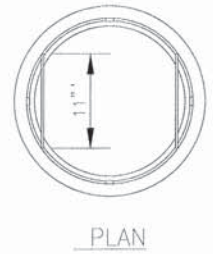
PLAN



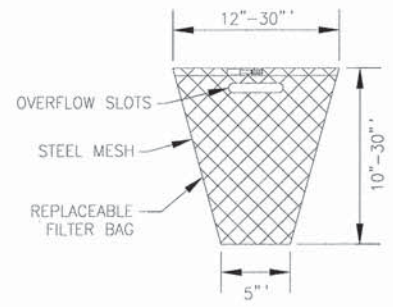
SECTION

MANHOLE PILE DETAIL

NO SCALE



PLAN



GENERAL NOTES:
 FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM-A36.
 REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.
 STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

INLET FILTER

NO SCALE

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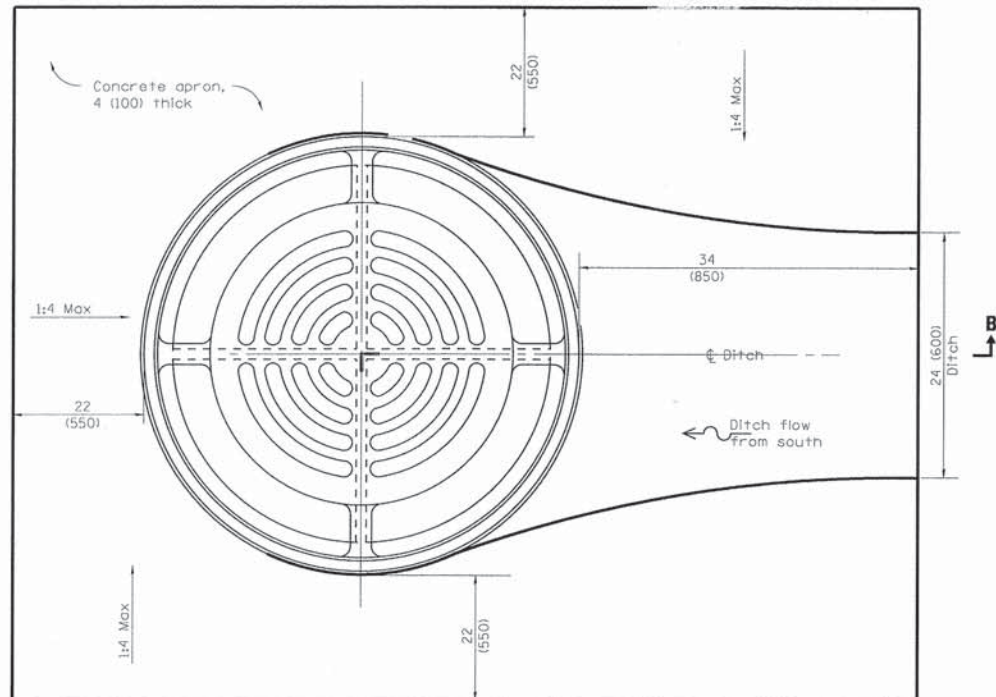
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DRAWN - MAC	REVISED - 8-13-13 PER VILLAGE
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH_Misc_Details.sht

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

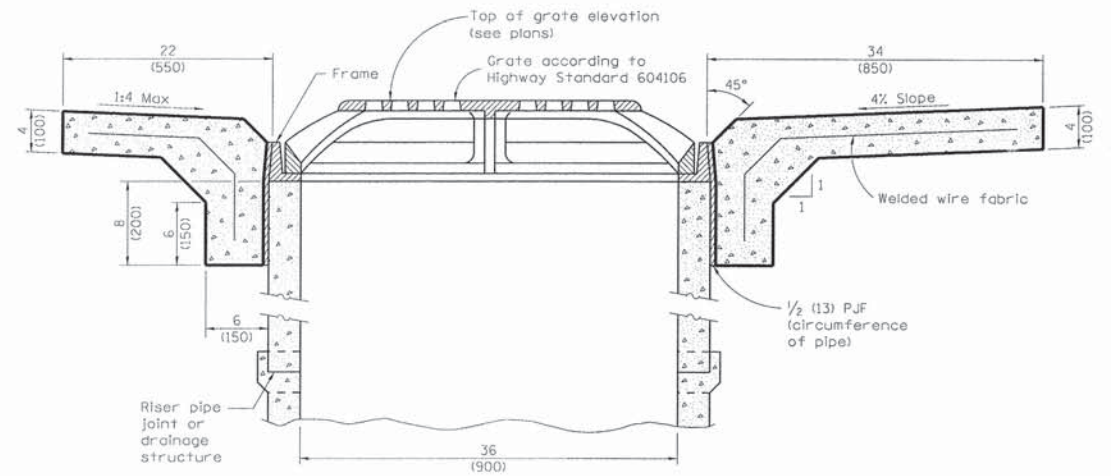
MISCELLANEOUS DETAILS

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	73
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



LOCATION SKETCH - PLAN

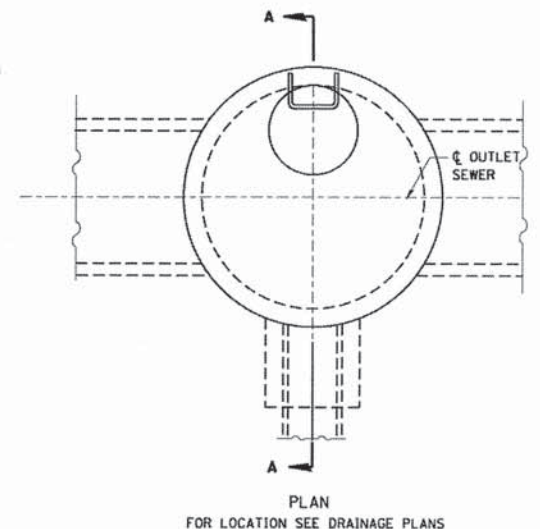


SECTION B-B

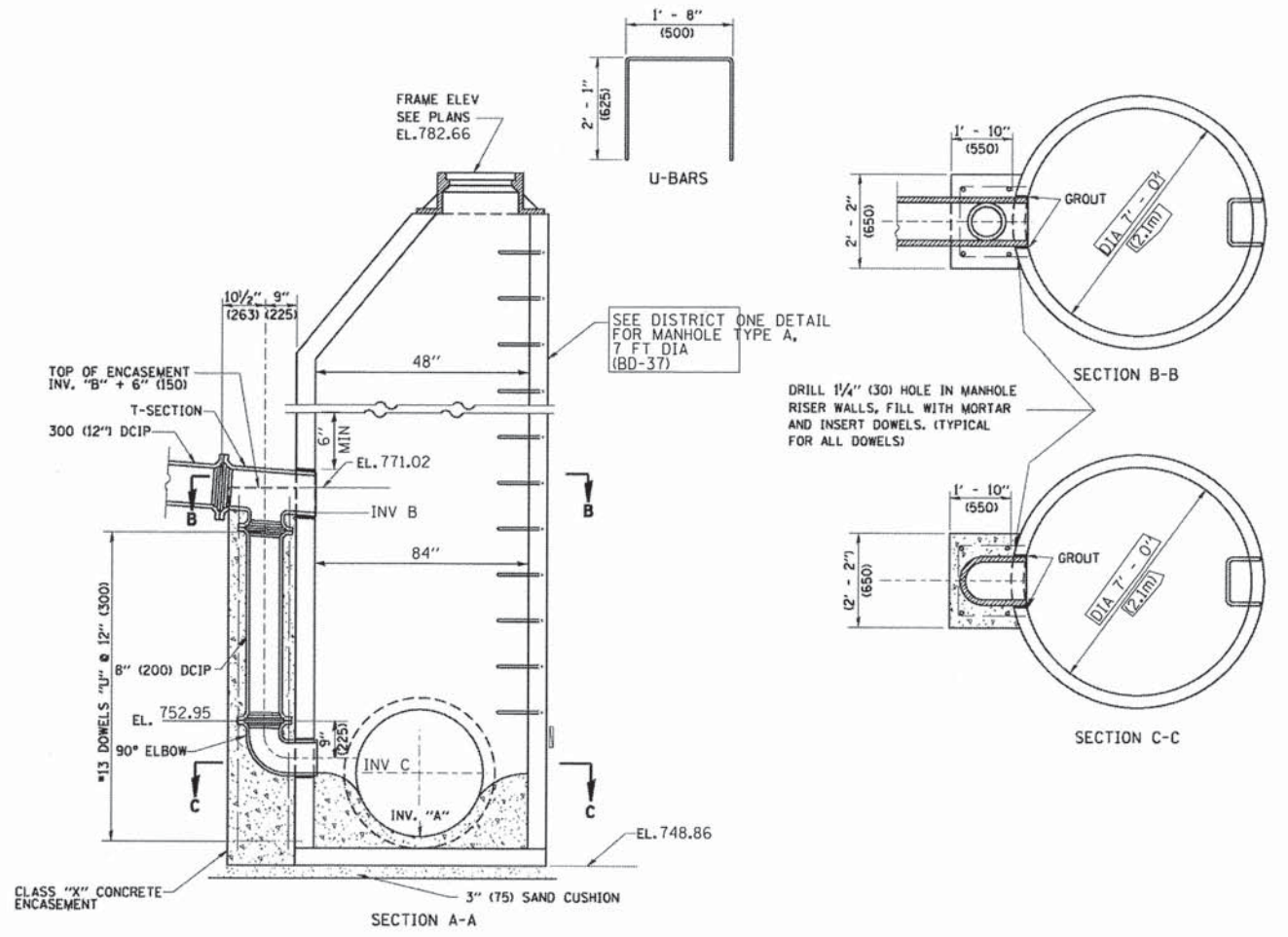
GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.
 Concrete apron shall be included in the cost of Catch Basin, Type A, 5' Diameter, With Median Inlet (604106).

MEDIAN INLET DETAIL



ENCASEMENT DETAILS	
DROP M.H. LOCATION STA., OFFSET	S-7 107+58 11.5' RT
INV. "A"	749.86
INLET PIPE	12"
INV. "B"	770.52
INV. "C"	751.86
A	
B	
"V" BAR LENGTH	21.5'
NO. OF "U" BARS	21
REINF. BARS	
CLASS "S1" CONC. CUBIC METER (CU. YD.)	3.23



DROP MANHOLE DETAIL

- TYPE A1-1 MANHOLE WITH 1 DROP AND DEPTH UP TO 10' (3 m)
- TYPE A1-2 " " " " " " FROM 10' TO 15' (3 m TO 1.5 m)
- TYPE A1-3 " " " " " " FROM 15' TO 20' (1.5 m TO 6 m)
- TYPE A1-4 " " " " " " OVER 20' (6 m)
- TYPE A2-1 MANHOLE WITH 2 DROPS AND DEPTH UP TO 10' (3 m)
- TYPE A2-2 " " " " " " FROM 10' TO 15' (3 m TO 1.5 m)
- TYPE A2-3 " " " " " " FROM 15' TO 20' (1.5 m TO 6 m)
- TYPE A2-4 " " " " " " OVER 20' (6 m)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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 PROJECT: 071749.PH2.SH.Misc_Details.sht
 DATE: 06/20/13
 DRAWN: MAC
 CHECKED: RWL
 DATE: 06/20/13



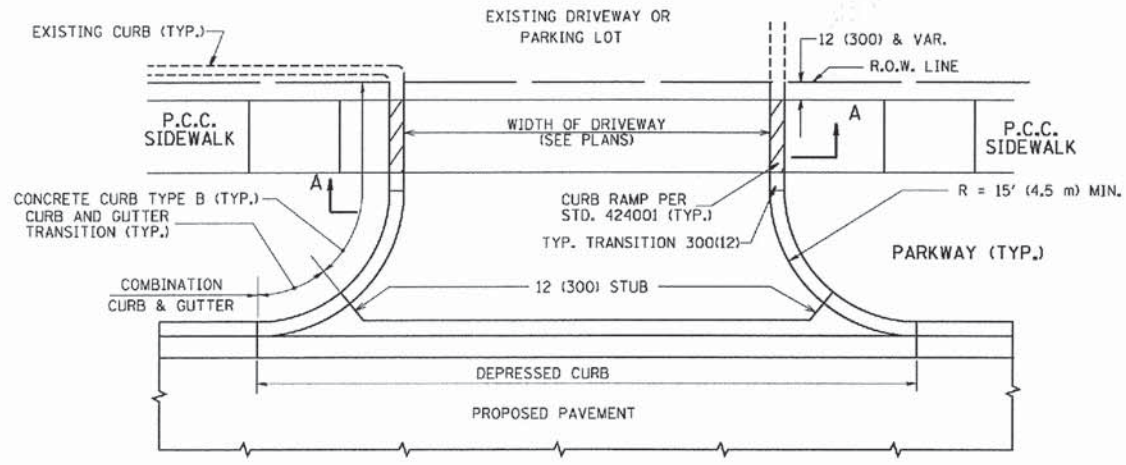
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

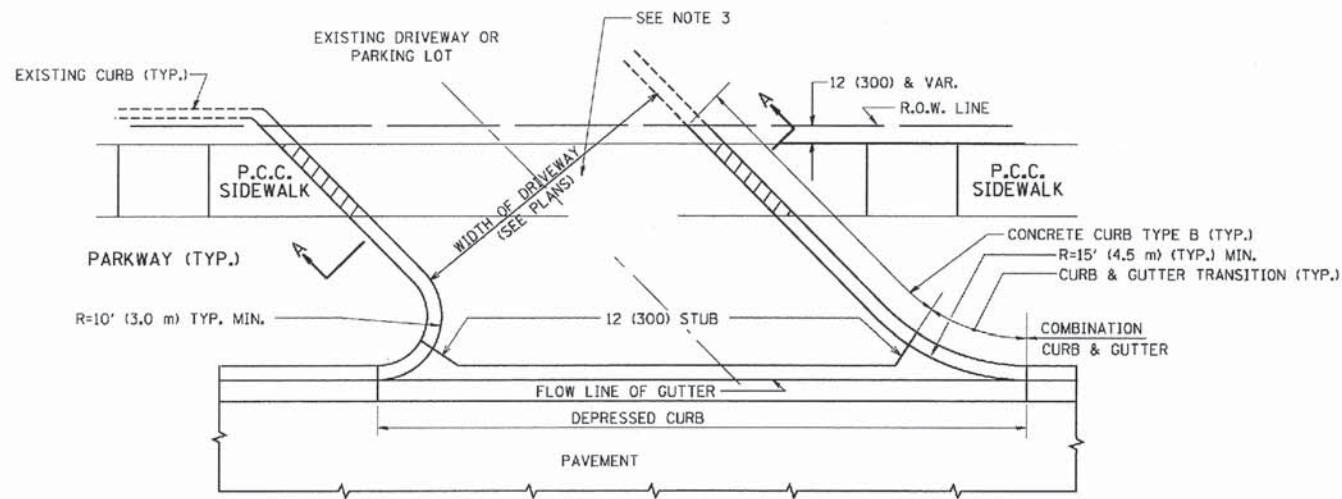
DROP MANHOLE DETAIL AND
MEDIAN INLET DETAIL

SCALE: NONE STA. TO STA.

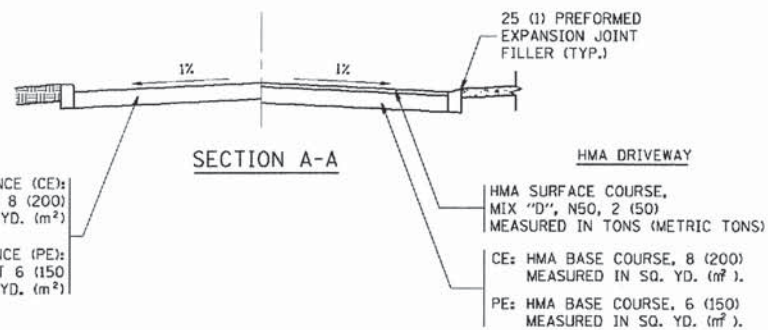
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0201	00-00025-00-FP	LAKE	98	74
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT N-9003(482)				



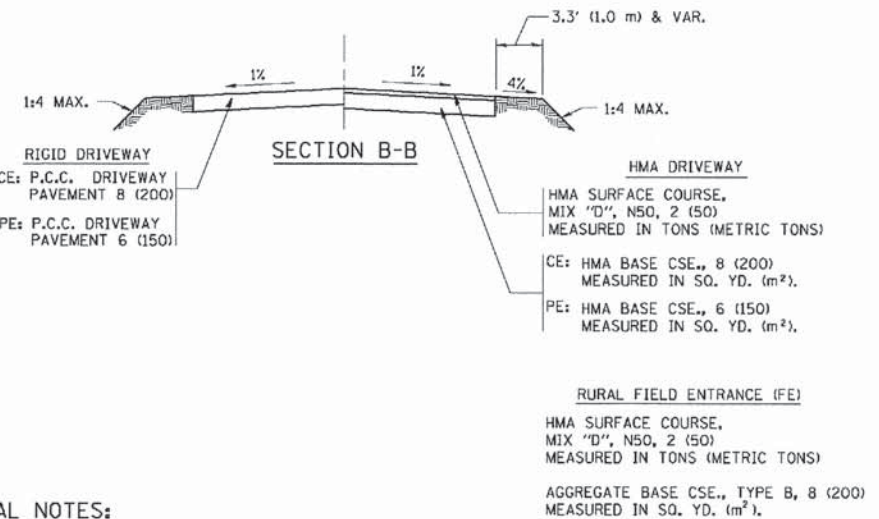
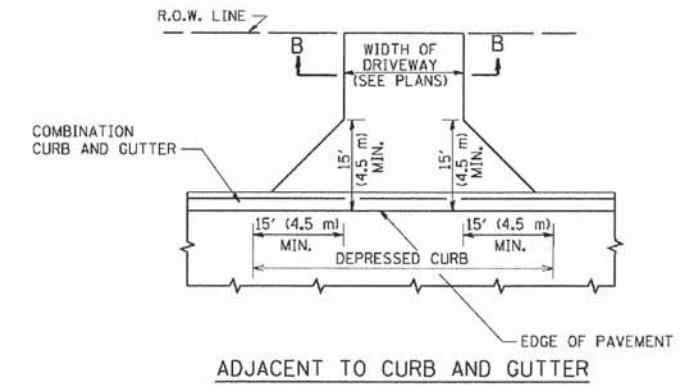
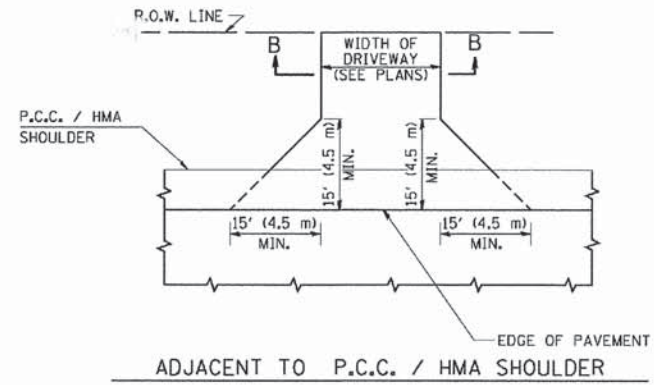
WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



SECTION A-A



GENERAL NOTES:

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

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

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

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

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

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

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		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

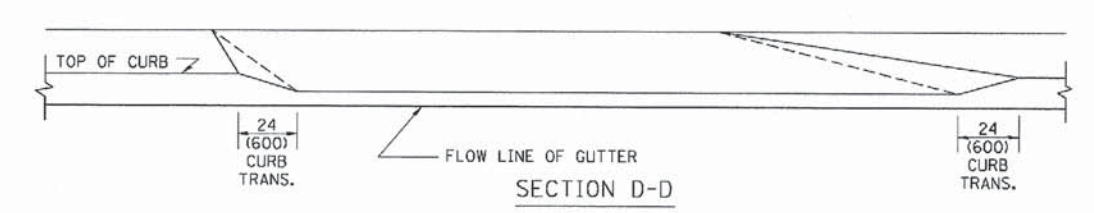
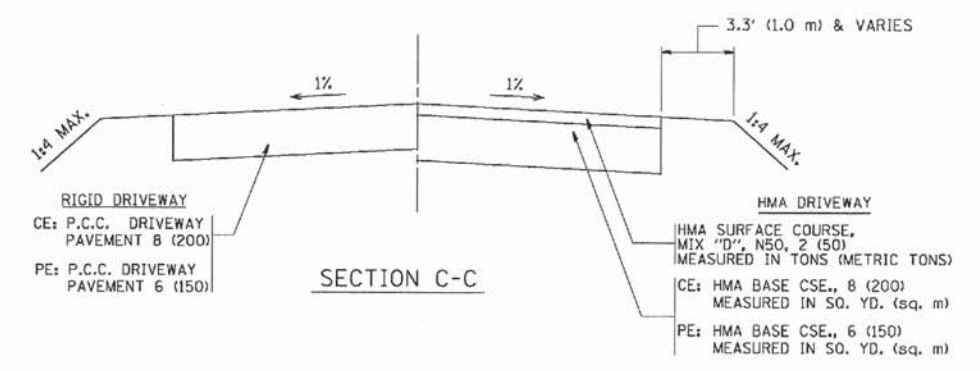
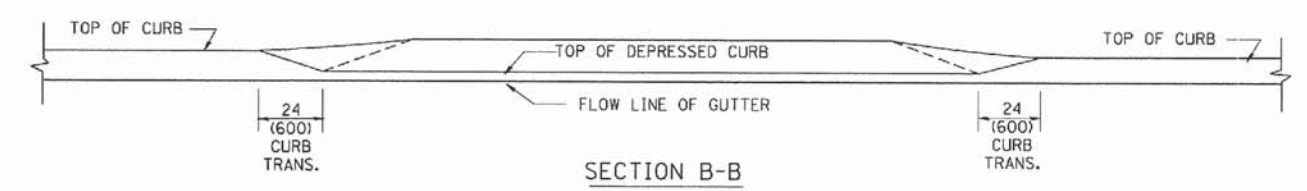
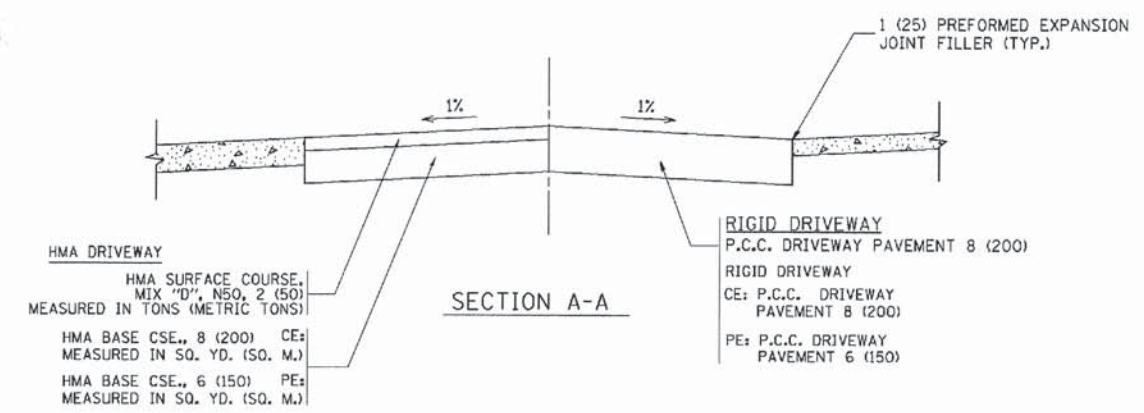
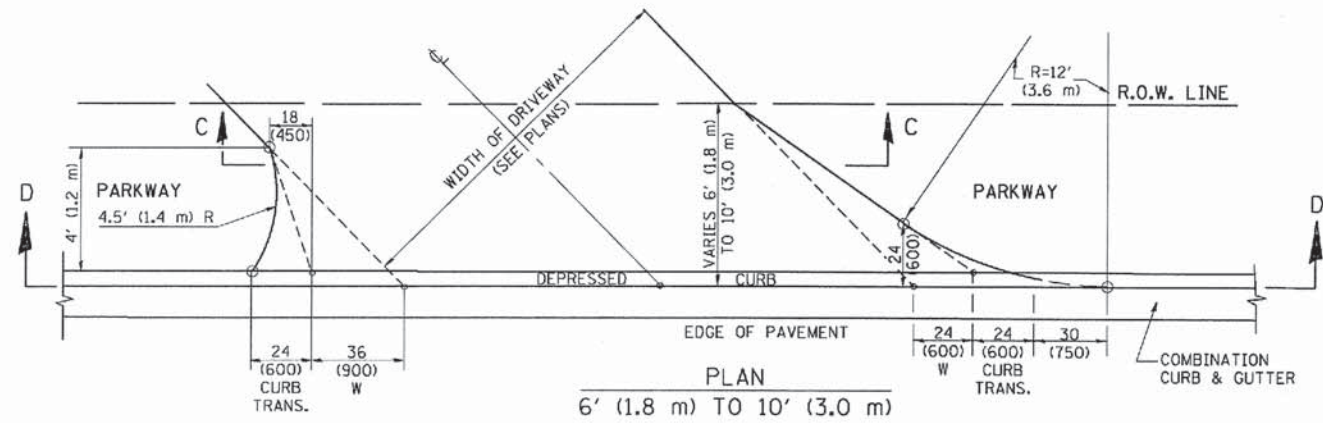
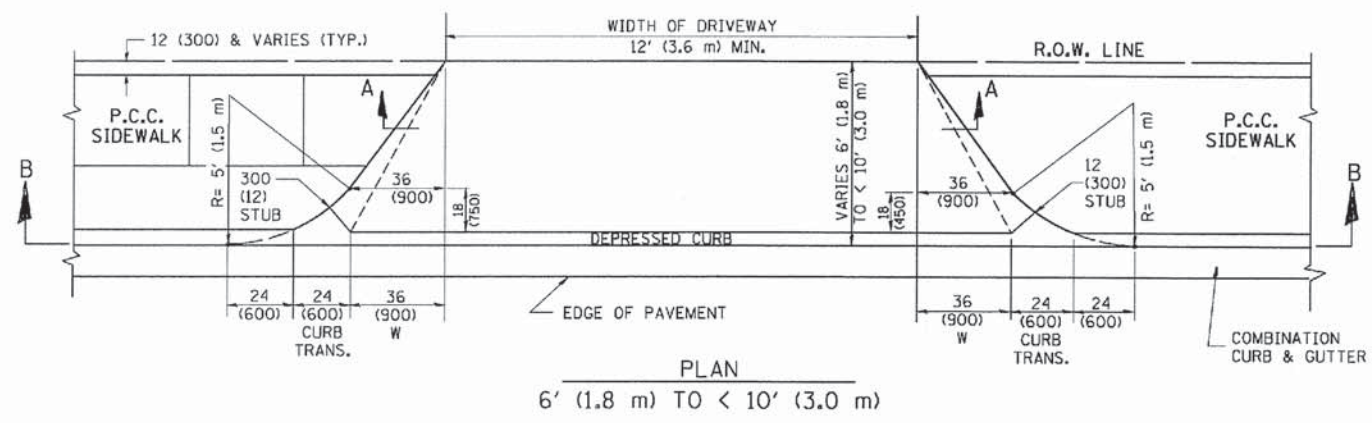
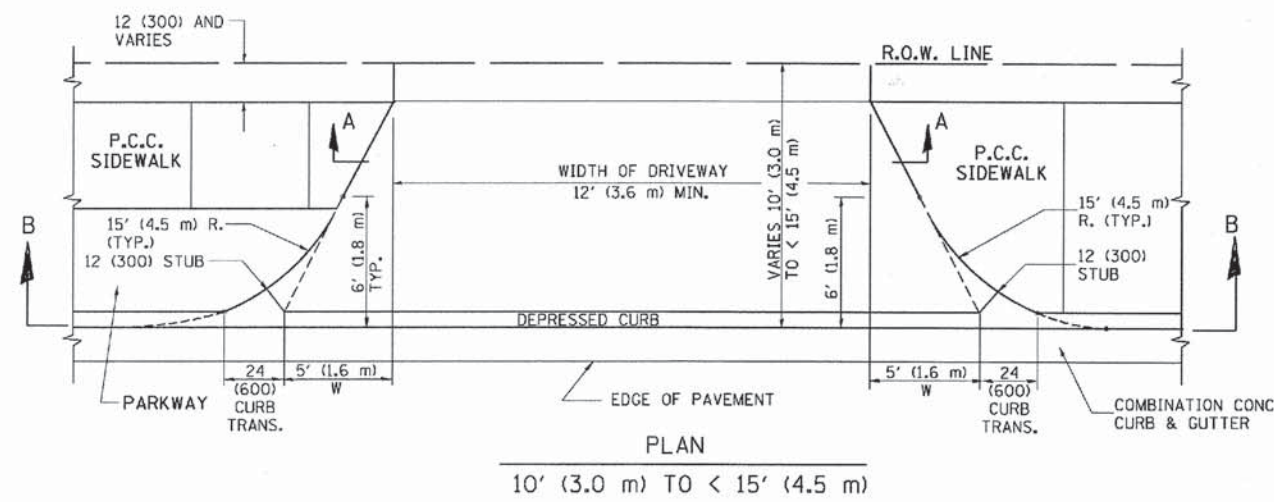
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	75
BD0156-07 (BD-01)		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-900314821				

C-91-070-10



GENERAL NOTES

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

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

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

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

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

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

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

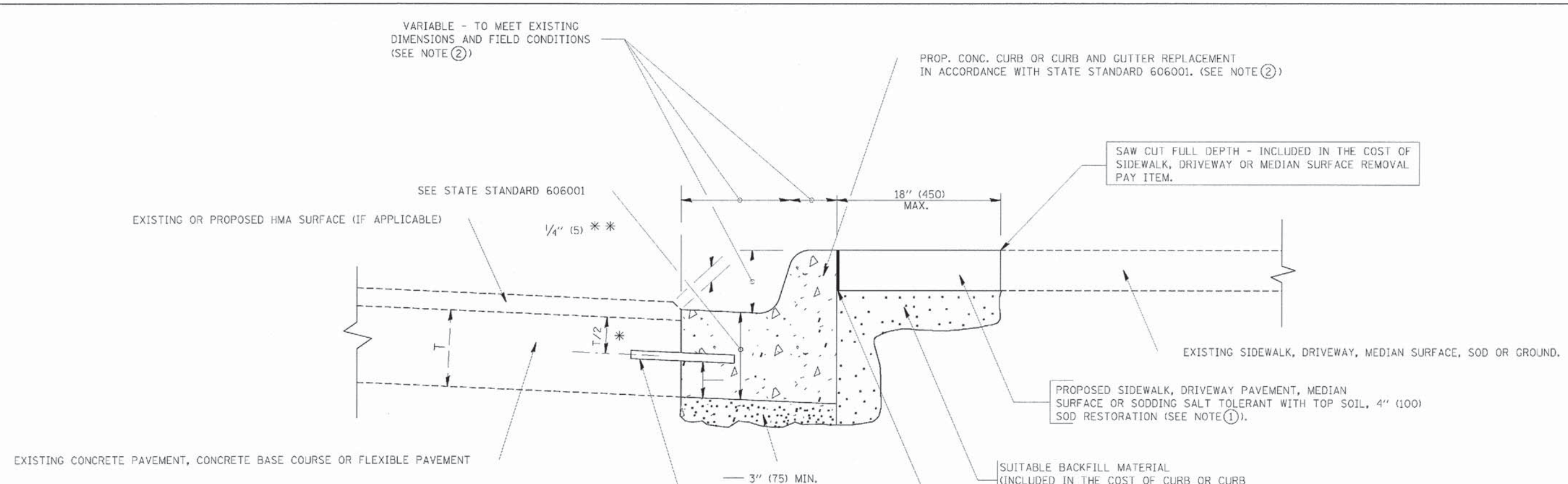
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 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROJECT: ...
 DATE: 11-06-95

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PLOT SCALE = 50.0000' / 1" =	CHECKED -	DRAWN -	REVISIONS -
PLOT DATE = 10/28/2011	R. BORO 01-01-07	P. LOFLEUR 04-15-03	P. LOFLEUR 04-15-03
	DATE = 11-06-95		REVISIONS -
			R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	76
BD400-02 (BD-02)			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				
C-91-070-10				



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
 ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
 SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

BASIS OF PAYMENT:
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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 LICENSE NO. 184-00021 - EXPIRES 7/30/2013
 231ab

DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RTE. 0201	SECTION 00-00025-00-FP	COUNTY LAKE	TOTAL SHEETS 98	SHEET NO. 77	
DRAWN	REVISED - A. ABBAS 03-21-97			BD600-06 (BD-24)			CONTRACT NO. 63868		
CHECKED -	REVISED - M. GOMEZ 01-22-01			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)					
DATE 03-11-94	REVISED R. BORO 12-15-09			C-91-070-10					

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

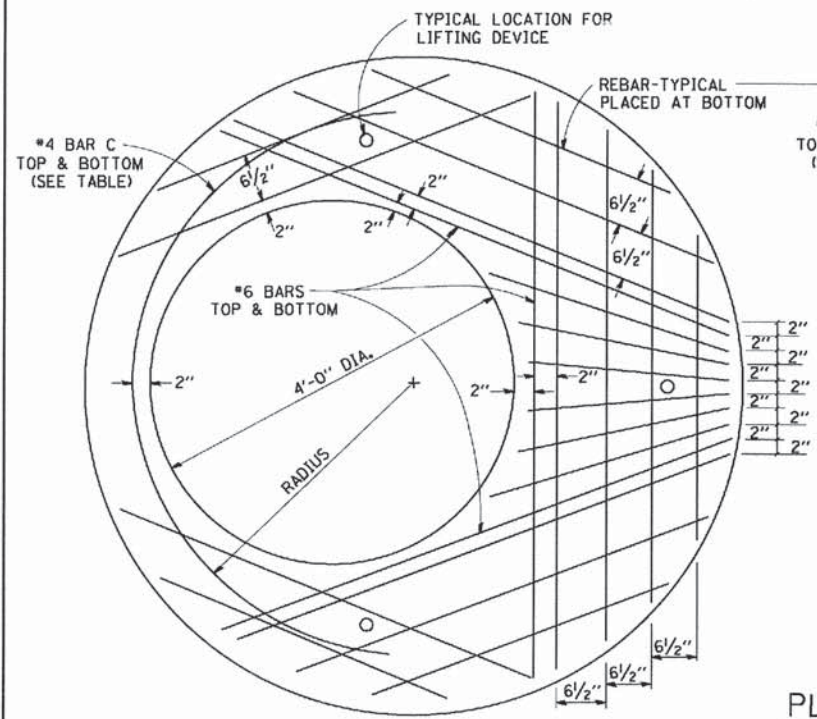
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

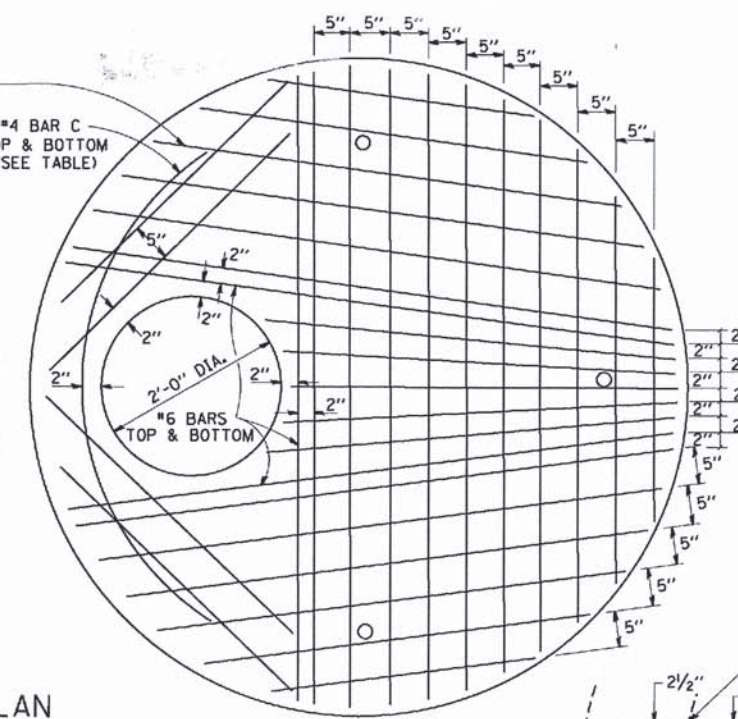
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

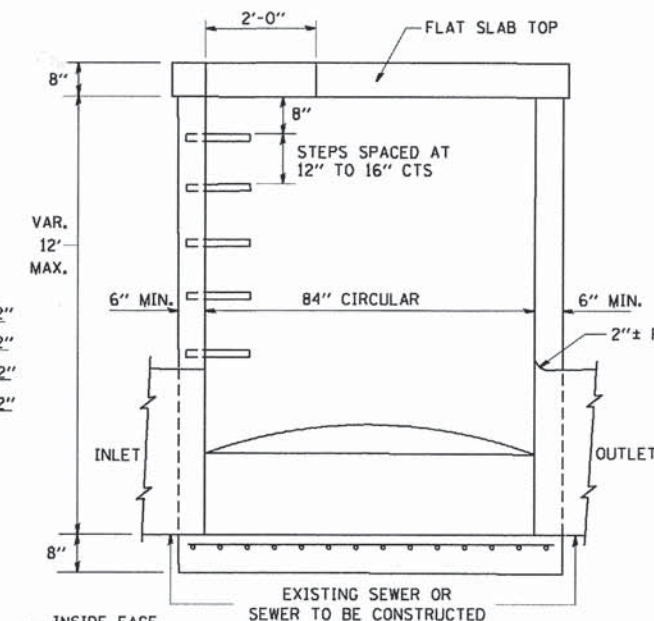
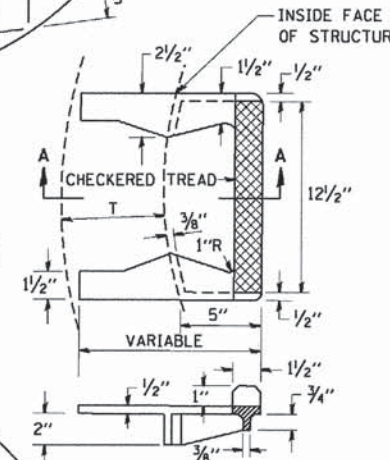
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



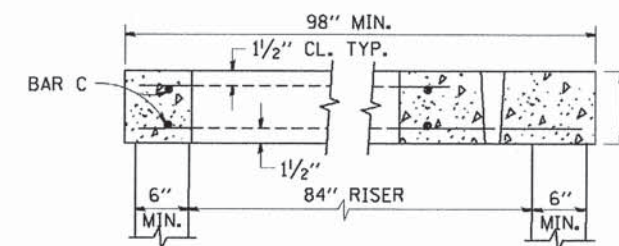
PLAN
SHOWING REBAR REINFORCEMENT



SEC. A-A
CAST IRON STEPS

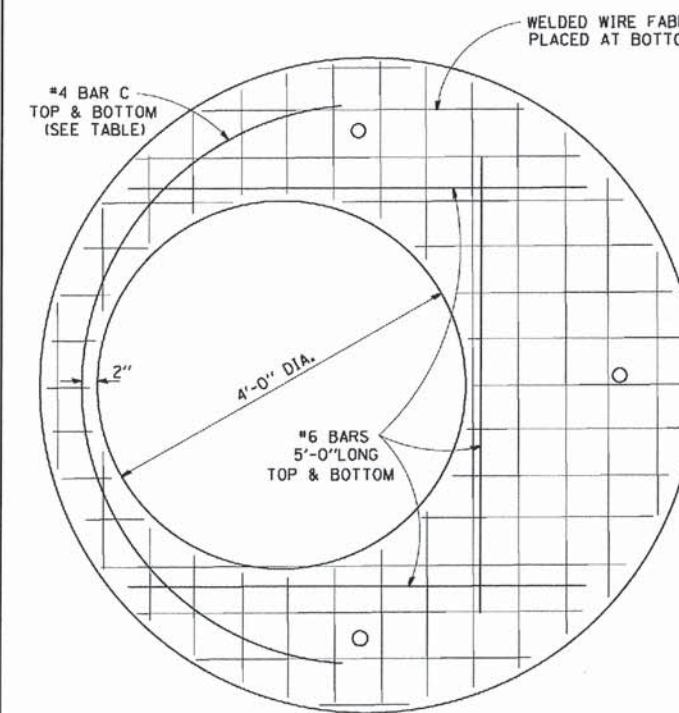


ELEVATION

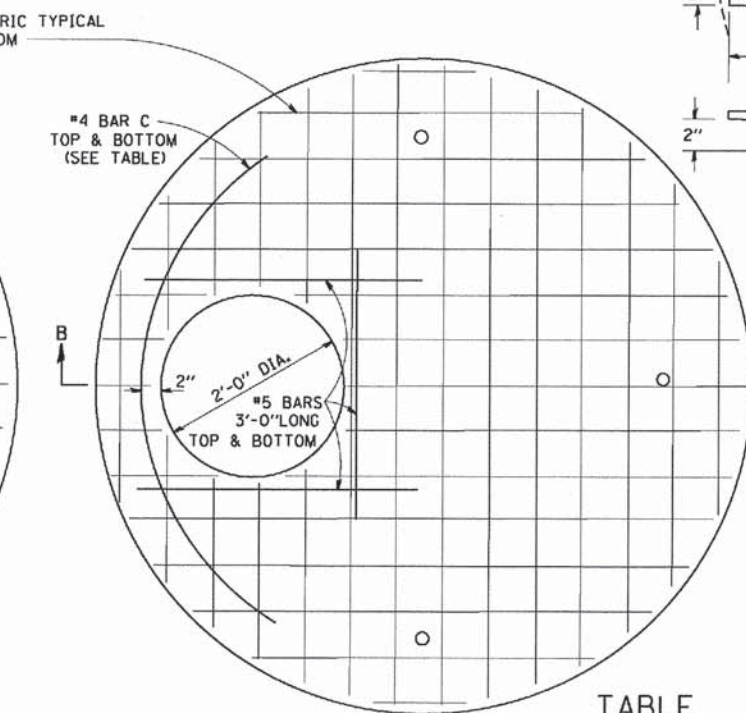


SECTION B-B

ALTERNATE MATERIALS FOR RISERS	(MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



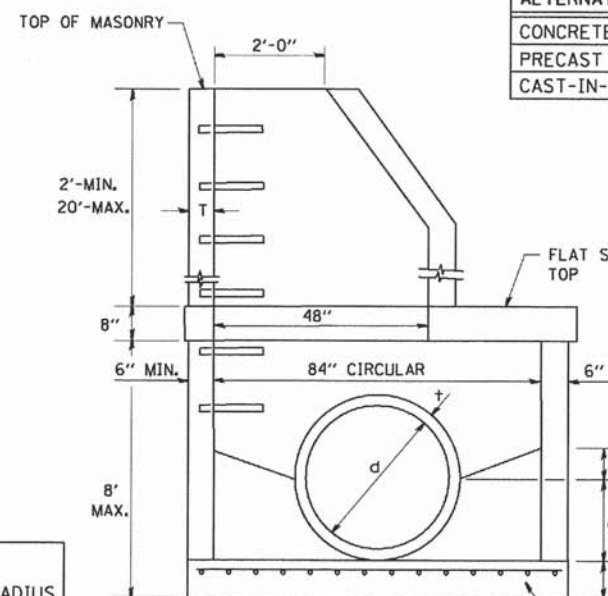
PLAN
SHOWING WELDED WIRE FABRIC REINFORCEMENT



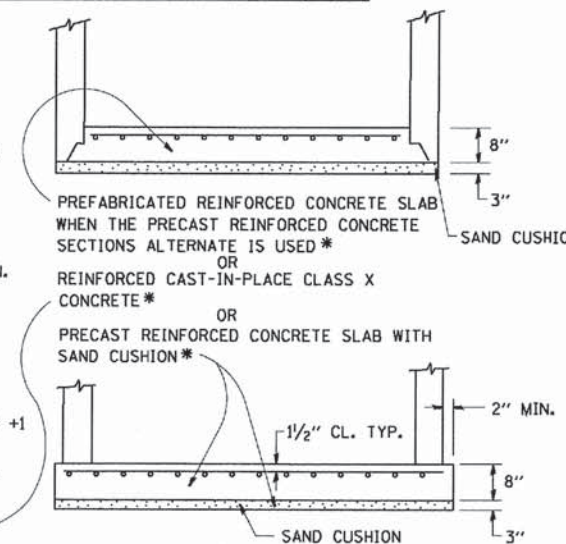
TABLE

DIAMETER OF OPENING	REINFORCEMENT "A-C" WWF EACH DIRECTION	OR BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.



ELEVATION



PREFABRICATED REINFORCED CONCRETE SLAB WHEN THE PRECAST REINFORCED CONCRETE SECTIONS ALTERNATE IS USED *

REINFORCED CAST-IN-PLACE CLASS X CONCRETE *

OR PRECAST REINFORCED CONCRETE SLAB WITH SAND CUSHION *

SAND CUSHION

SAND CUSHION

SAND CUSHION

SAND CUSHION

SAND CUSHION

SAND CUSHION

SAND CUSHION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE A
7 FOOT DIAMETER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	78
BD600-11 (BD-37)			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-900374821	

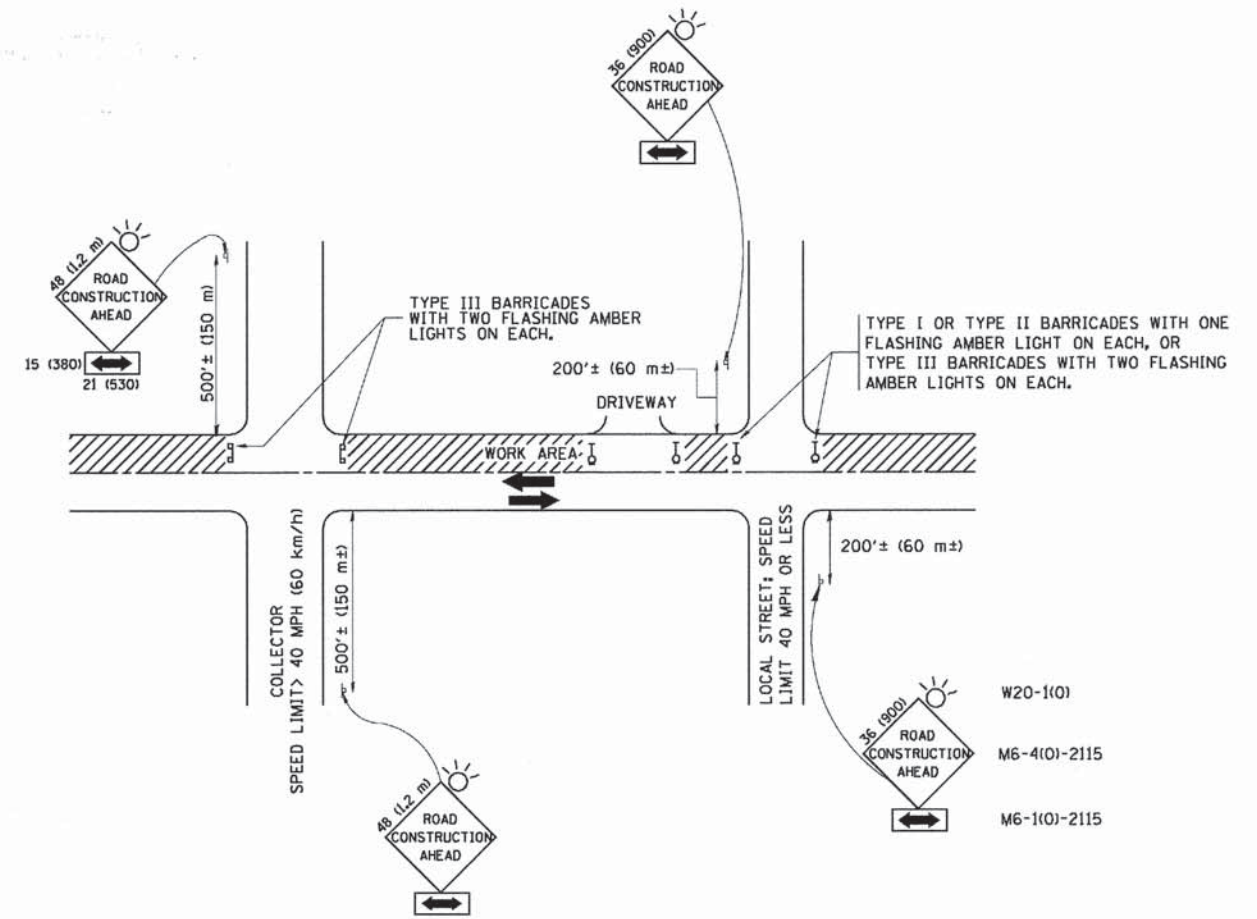
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C-91-070-10

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FILE NAME =	USER NAME = geglerebot	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE - 10-18-02	REVISED -

PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

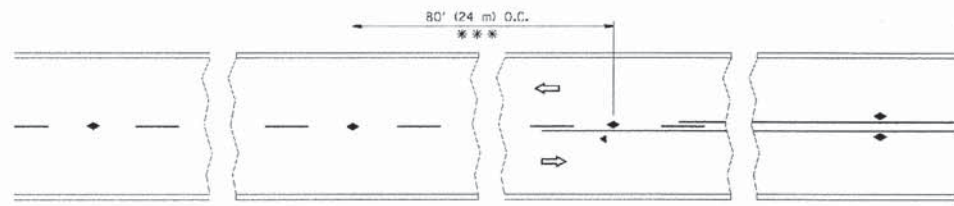
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 225 S. WABASH ST., CHICAGO, IL 60601-1000
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 PROJECT: ILLINOIS STATE ROADWAY SURVEY DRAWINGS/0000/PHASE-2/03/STRUCT ONE DETAILS - TC-1111.dgn

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

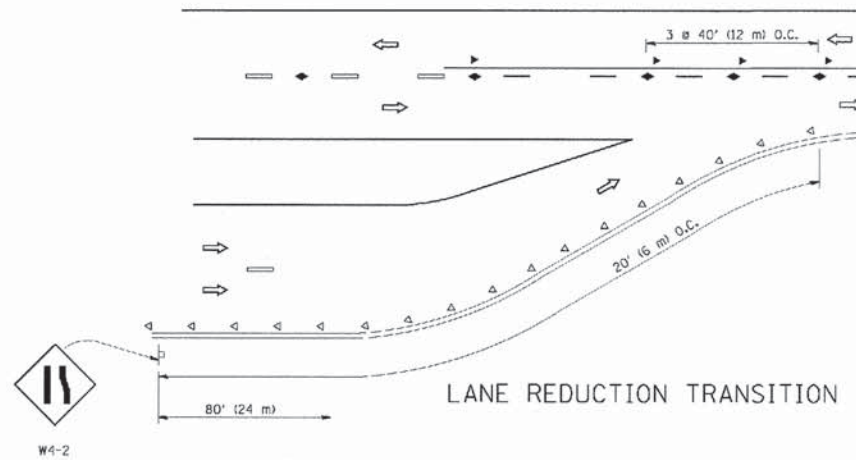
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	79
TC-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

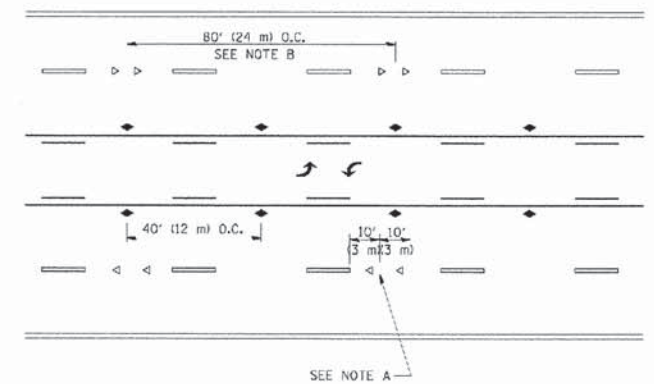


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

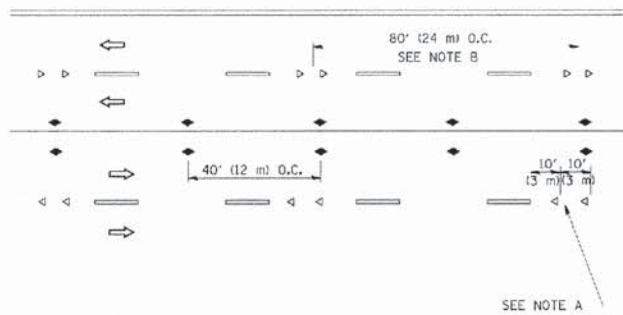
TWO-LANE/TWO-WAY



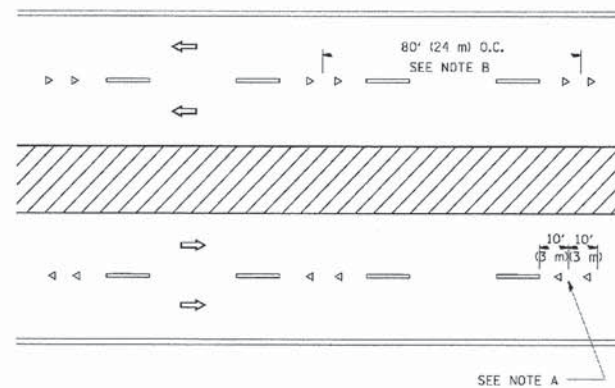
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

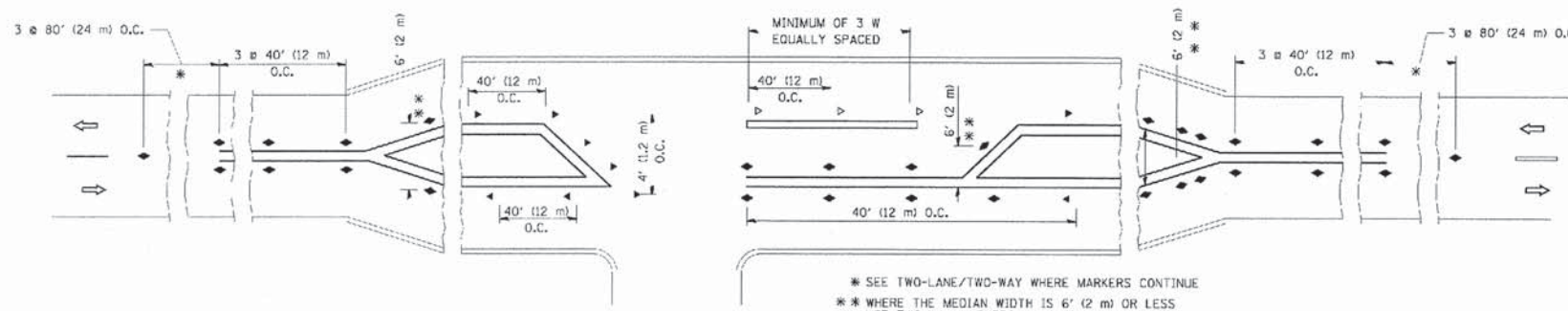
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◀ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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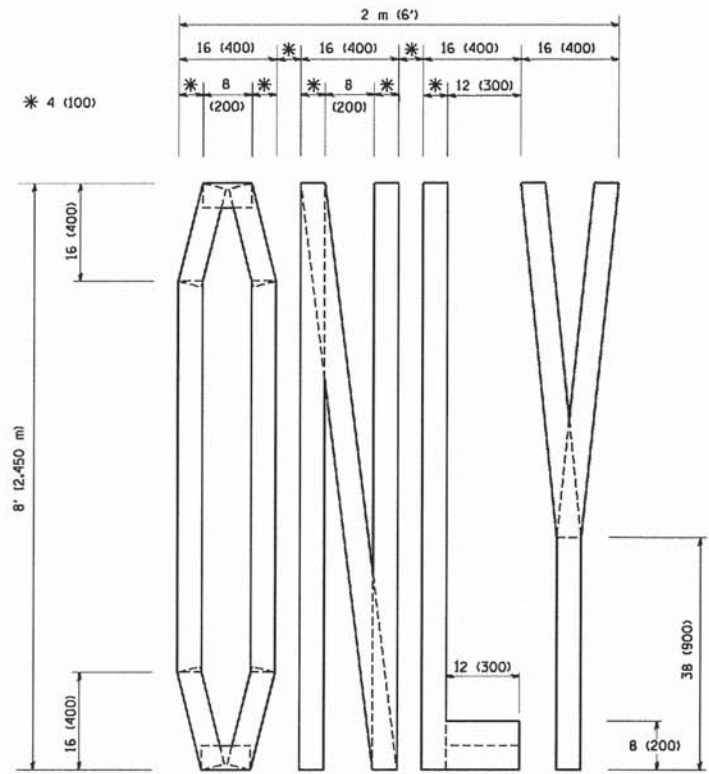
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PROJECT SCALE + 50,000 1" = 100'	LOGO	DRAWN	REVISED - T. RAMMACHER 03-12-99
PLOT DATE + 4/2/2014		CHECKED -	REVISED - T. RAMMACHER 01-06-00
		DATE	REVISED C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

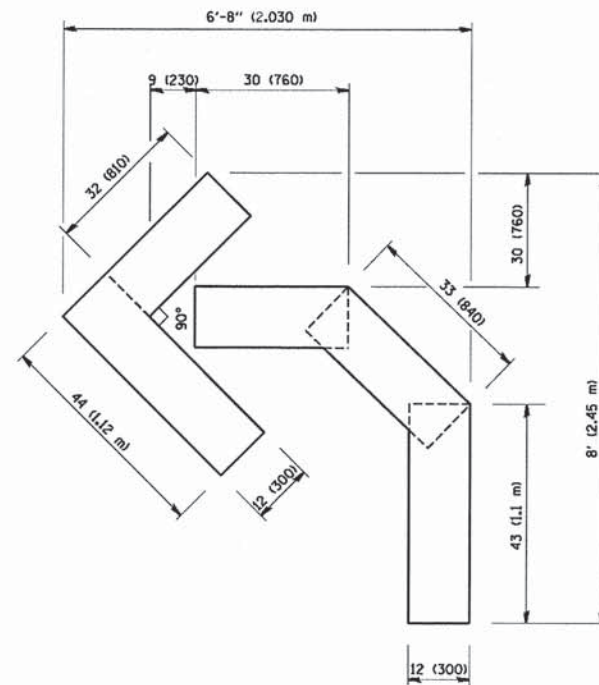
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	80
TC-11			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-9003(482)				
C-91-070-10				

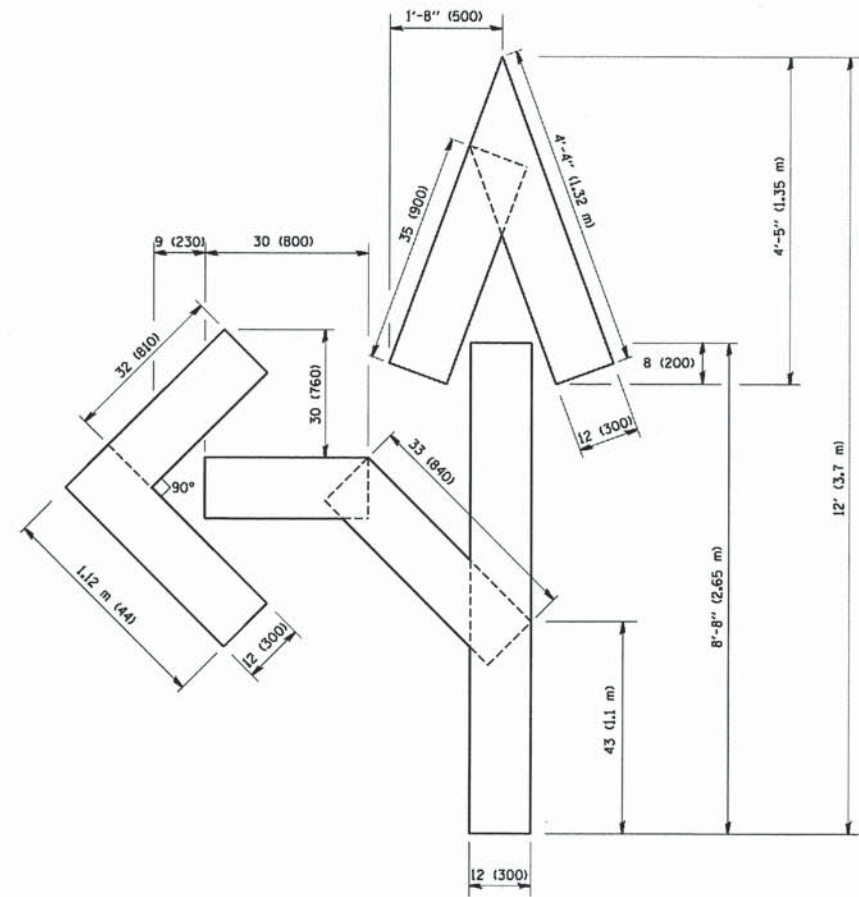
All dimensions are in inches (millimeters) unless otherwise shown.



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



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



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

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

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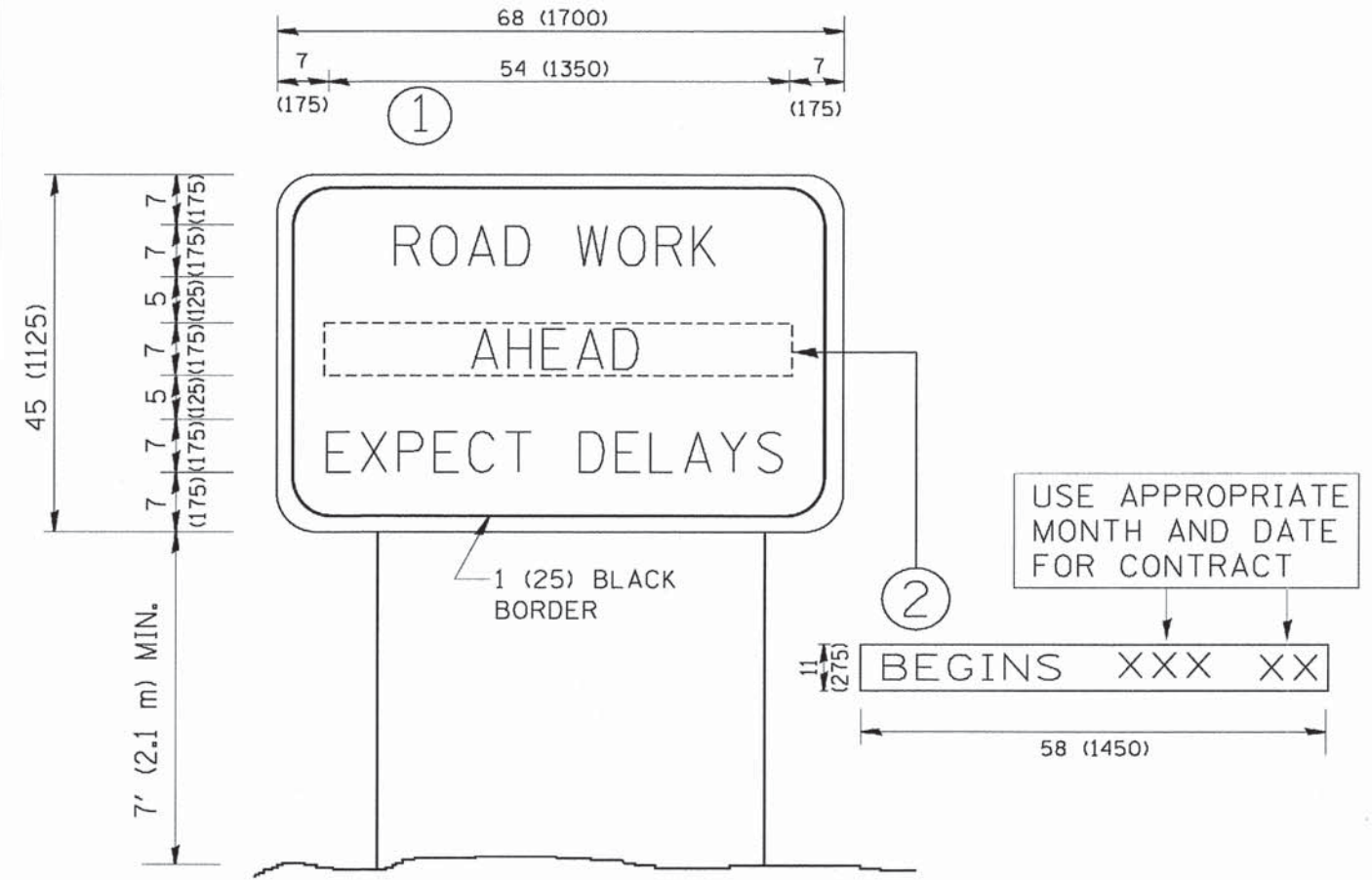
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	PLOT SCALE = 50.0000" / IN.	CHECKED -	REVISED - T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE = 09-18-94	REVISED - E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	82
TC-16		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



NOTES:

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

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

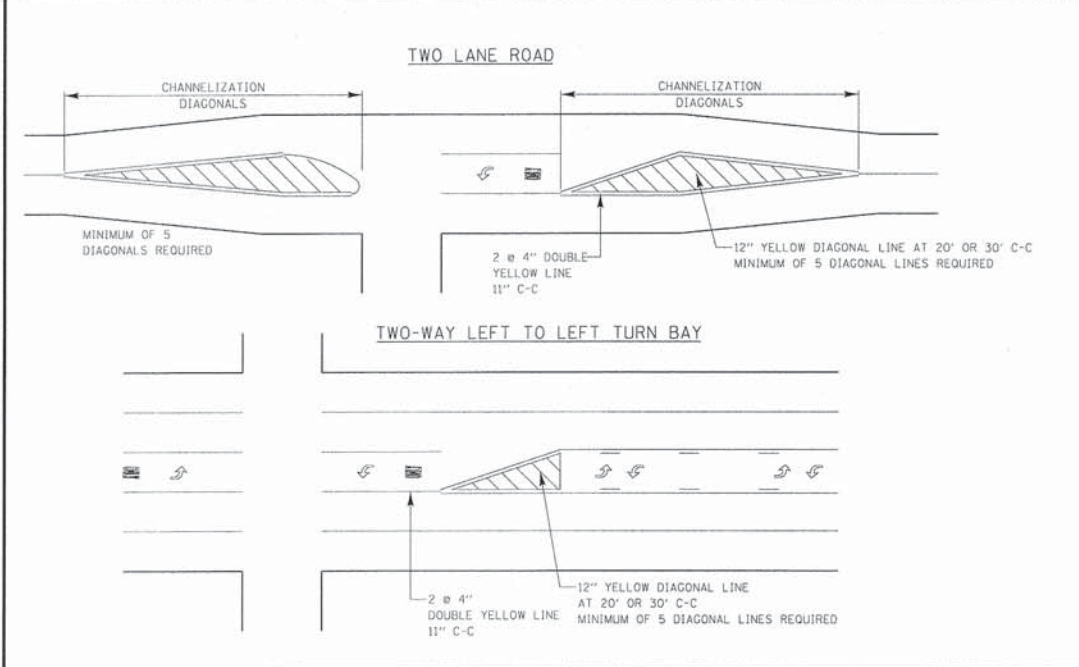
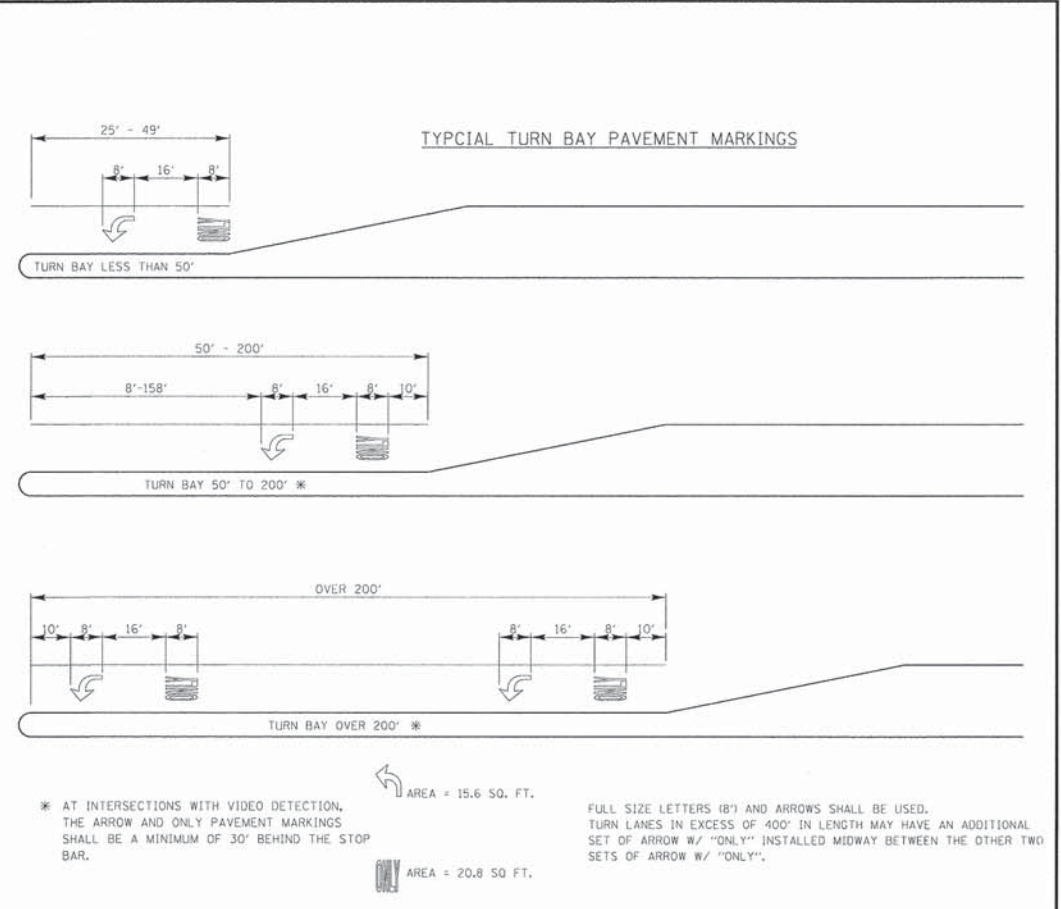
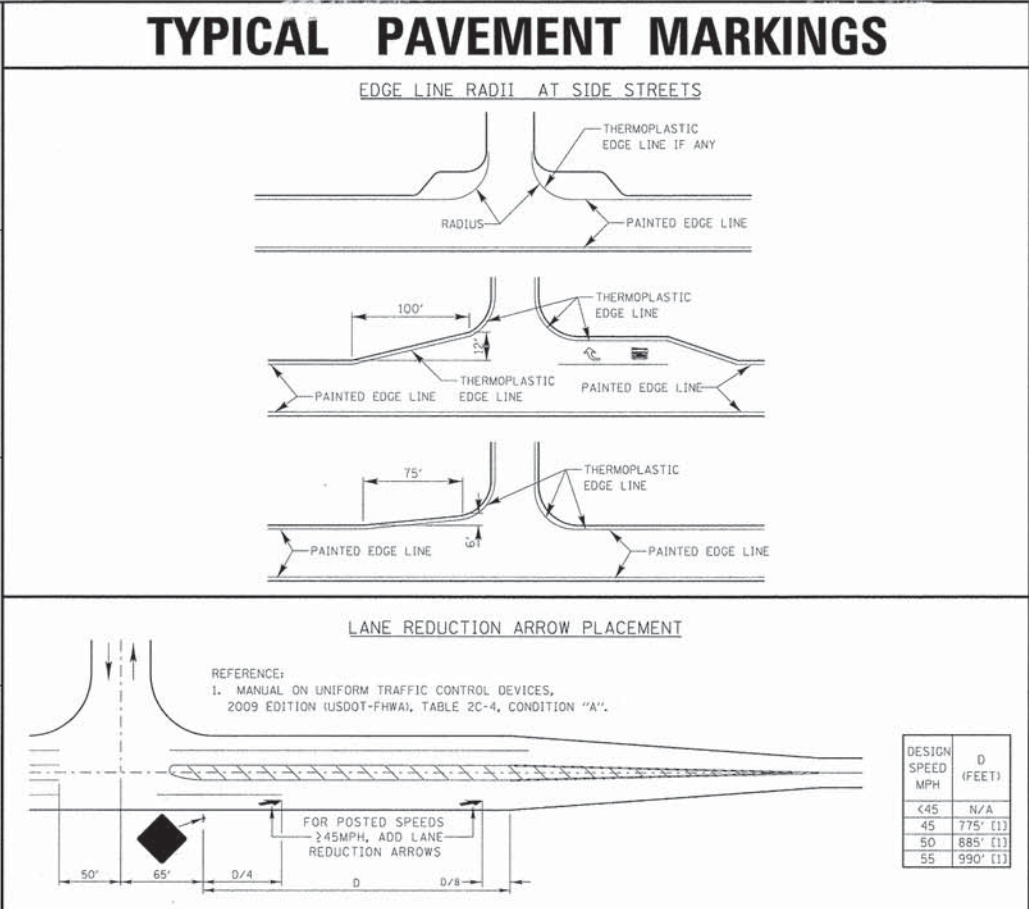
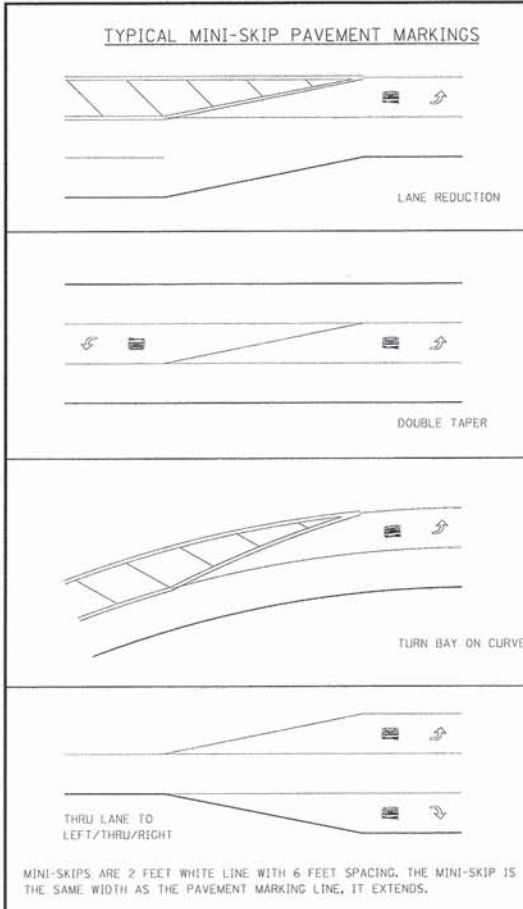
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	83
TC-22			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				



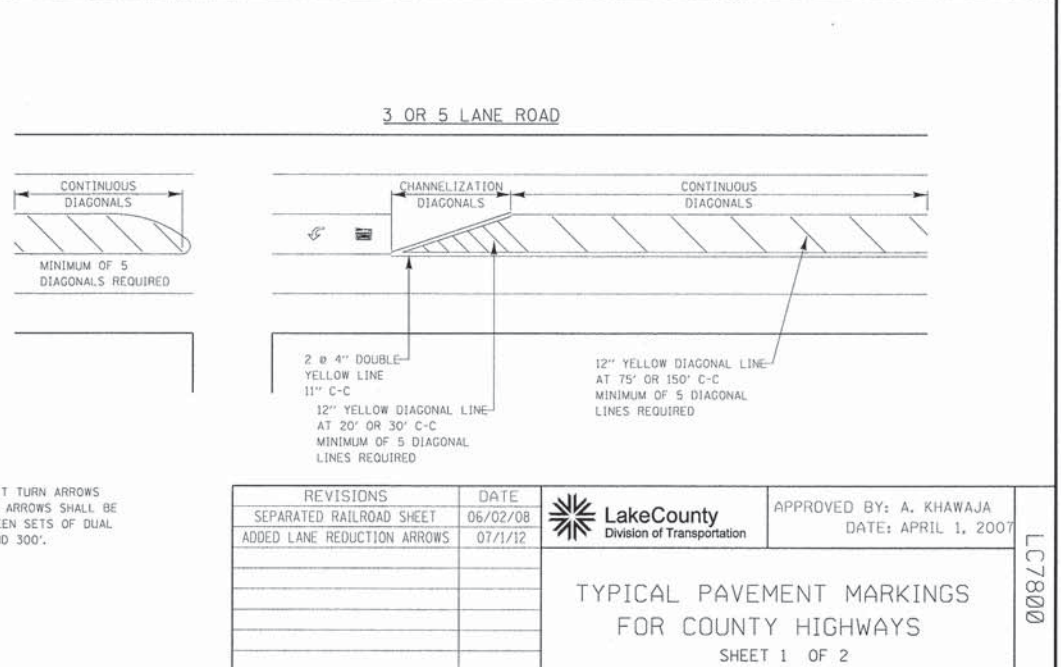
TYPICAL DIAGONAL SPACING

SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

DUAL LEFT TURN ARROWS

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

31.2 SQ. FT. MINIMUM OF 2 SETS REQUIRED



REVISIONS / REMARKS		DATE	BY	SURVEYOR
NO.	DESCRIPTION			

FILE NAME: @corp.boxwood.com@projects@Crystal Lake@ROULK@071749@CADD-SURVEY@DRAWINGS@DCNS@PHASE-2@071749_PH2_SH-LC_Details.shx

Lake County
Division of Transportation

PROJECT NAME: LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXX-XX-XX	XXX	XXX

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 23/06/2013 8:16:00 AM



DESIGNED - DSH	REVISED -
DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_PH2_SH-LC_Details.shx

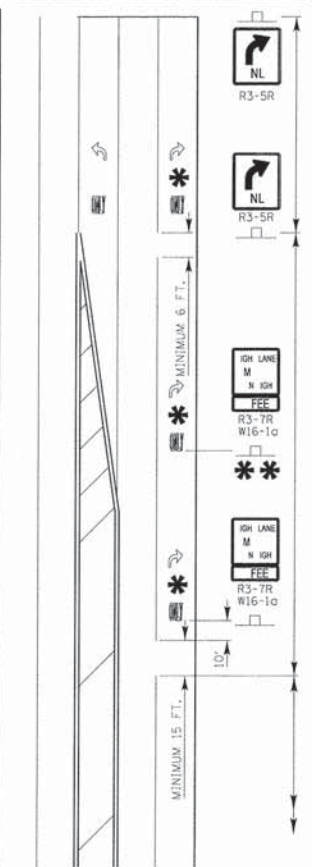
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY TYPICAL PAVEMENT MARKINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	85

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT M-9003(482)

THRU LANE TO
TURN LANE CONVERSION



TURN LANE
6" WHITE LINE
(ADDITIONAL PAVEMENT MARKINGS AS SHOWN
ON SHEET ONE OF THE I.C.D.O.T TYPICAL
PAVEMENT MARKINGS DETAIL SHEETS)

TRANSITION ZONE
6" WHITE 3/12" SKIP DASH
LANE LINE

THRU LANE
4" WHITE 10/30" SKIP DASH
LANE LINE

MINIMUM TRANSITION ZONE LENGTH

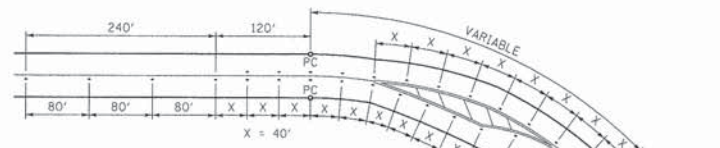
POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

LOCATION OF PAV'T MARKINGS
(MEASURED FROM BEGINNING OF TRANSITION ZONE)

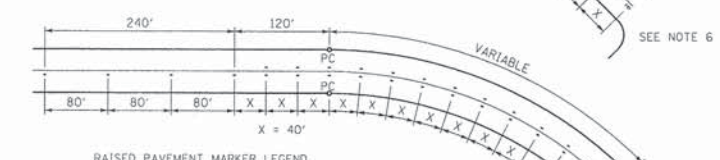
POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

FOR POSTED SPEEDS 40 M.P.H. OR GREATER
A SECOND R3-7/W16-10 SIGN INSTALLATION
SHALL BE LOCATED HALFWAY BETWEEN THE
BEGINNING OF THE TRANSITION ZONE AND THE
BEGINNING OF THE TURN LANE

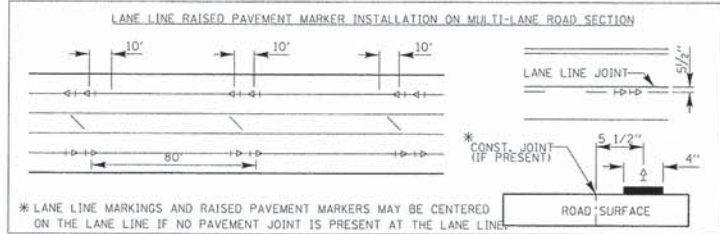
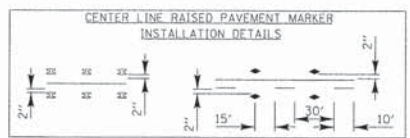
TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS



TYPICAL RAISED PAVEMENT
MARKER INSTALLATION

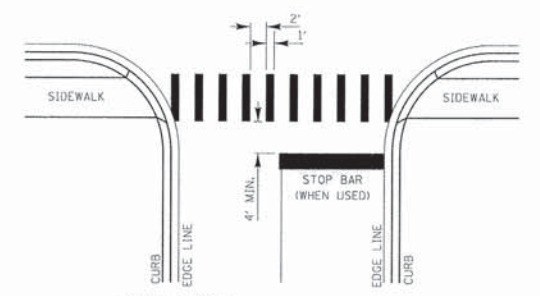


RAISED PAVEMENT MARKER LEGEND
 ☐ RAISED PAVEMENT MARKER, DOUBLE YELLOW
 ◊ RAISED PAVEMENT MARKER, WHITE AND RED



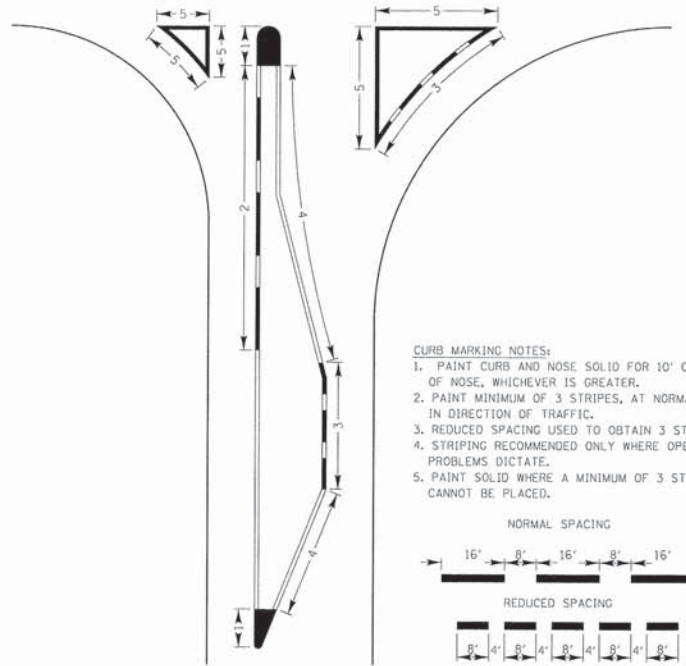
- RAISED PAVEMENT MARKER NOTES:
- CENTERLINE RAISED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - SPACING = 40' FOR CENTERLINE MARKERS.
 - ALL RPM'S ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
 - MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.H.W.A. MEMORANDUM HI0-21.
 - MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
 - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
 - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
 - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM'S SHALL BE INSTALLED IN PAIRS AND SHALL BE 80' CENTER TO CENTER. SPACING WITHIN EACH PAIR SHALL BE 10', CENTERED WITHIN THE 30' SKIP.

CROSSWALKS



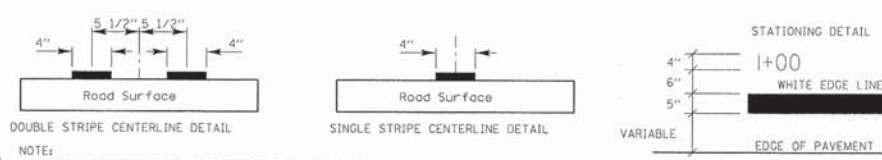
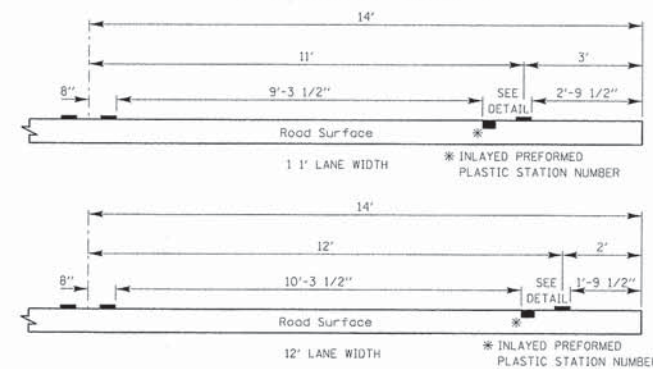
- CROSSWALK NOTES:
- WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8'.
 - THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING



- CURB MARKING NOTES:
- PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
 - PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
 - REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
 - STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
 - PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS
(2-LANE ROADWAY)



PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN. 2 @ 4 IN.	SOLID SOLID	YELLOW YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE 1 1/2 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED LANE LINES	2 @ 4 IN.	SOLID	YELLOW	1 1/2 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SO. FT. STRAIGHT ARROW 1.5 SO. FT. ONLY 20.8 SO. FT. COMB. ARROW 26.0 SO. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
CROSSWALK	8 FT. LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
PAINTED MEDIANS	2 @ 4 IN. & 11 IN. C-C 12 IN. DIAGONALS @ 45 NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW: 2-WAY TRAFFIC WHITE: 1-WAY TRAFFIC	1 1/2 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL
CORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS SEE I.D.O.T. STD. 780001 SO. FT. AREA OF: "R" = 3.6 SO. FT. / "R" "O" = 54.0 SO. FT.
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
SHOULDER DIAGONALS	12 IN. @ 45	SOLID	WHITE - RIGHT YELLOW - LEFT	

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES",
THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE LATEST I.D.O.T. HIGHWAY STANDARD 78000.

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR:

FILE NAME: \\corp.baxwood.com\projects\Crystal Lake\ROULK\071749\CADD-SURVEY\DRAWINGS\00NS\PHASE-2\071749.PH2.SH-LC Details.sht

REVISIONS	DATE		APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007
SEPARATED RAILROAD SHEET	06/02/08		
REVISED RPM DETAILS	07/1/12	TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS SHEET 2 OF 2	

	PROJECT NAME		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
	LAKE COUNTY STANDARDS & DETAILS		CHXX	XXX	XX-XXXX-XX-XX	XXX	XXX

DESIGNED - DSH
DRAWN - MAC
CHECKED - RWL
DATE - 06/20/13

REVISOR -
REVISOR -
REVISOR -
FILE - 071749.PH2.SH-LC Details.sht

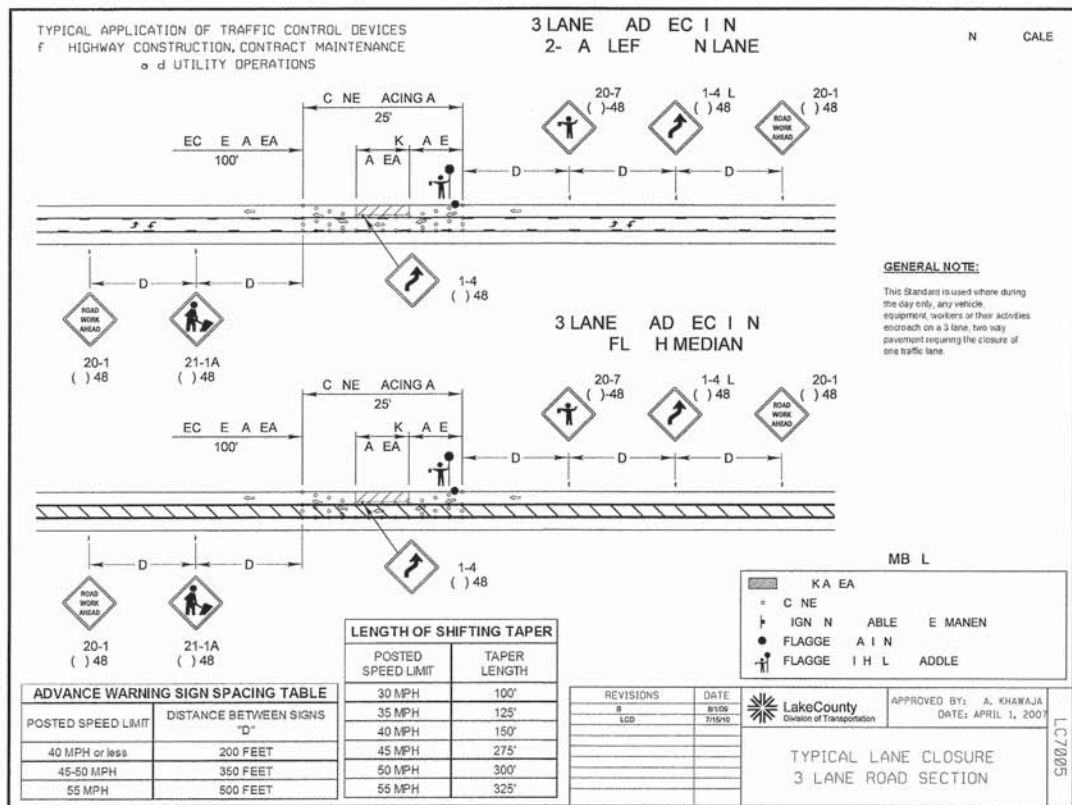
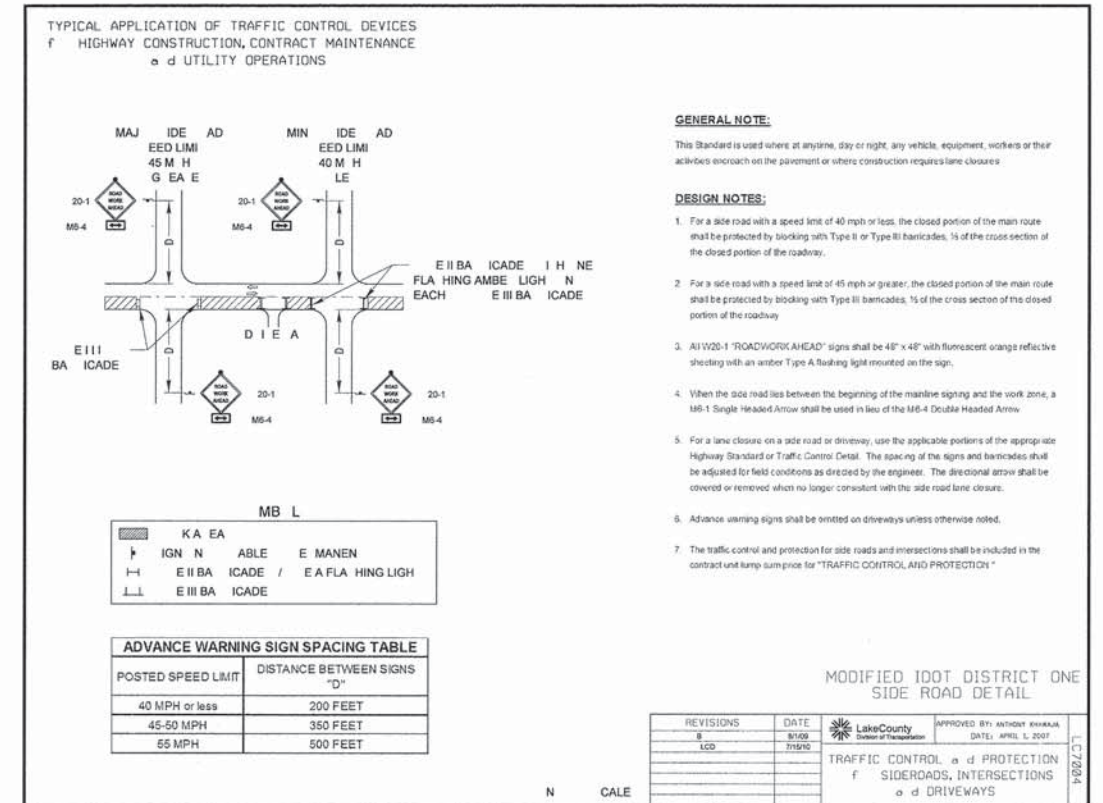
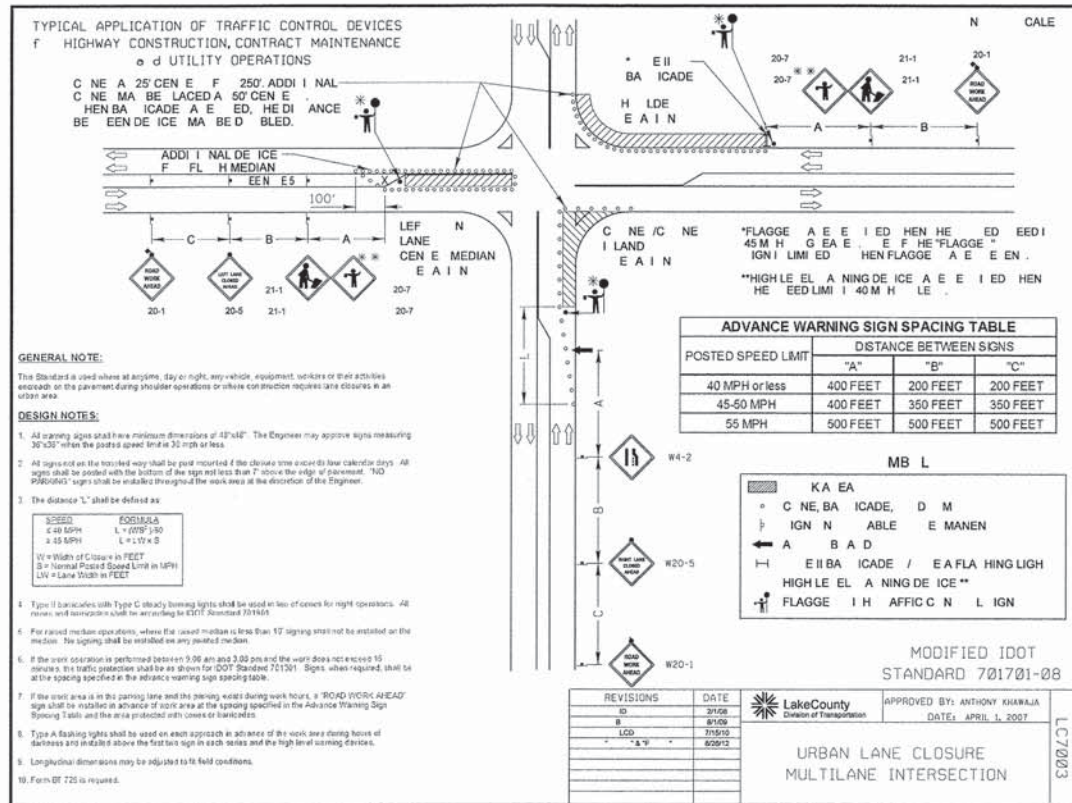
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY TYPICAL PAVEMENT MARKINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	86
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-9003(482)				

SCALE: NONE STA. TO STA.

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 DATE: 06/20/13
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DRAWN - MAC	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	FILE - 071749_P2-SH-LC_Details.dwg

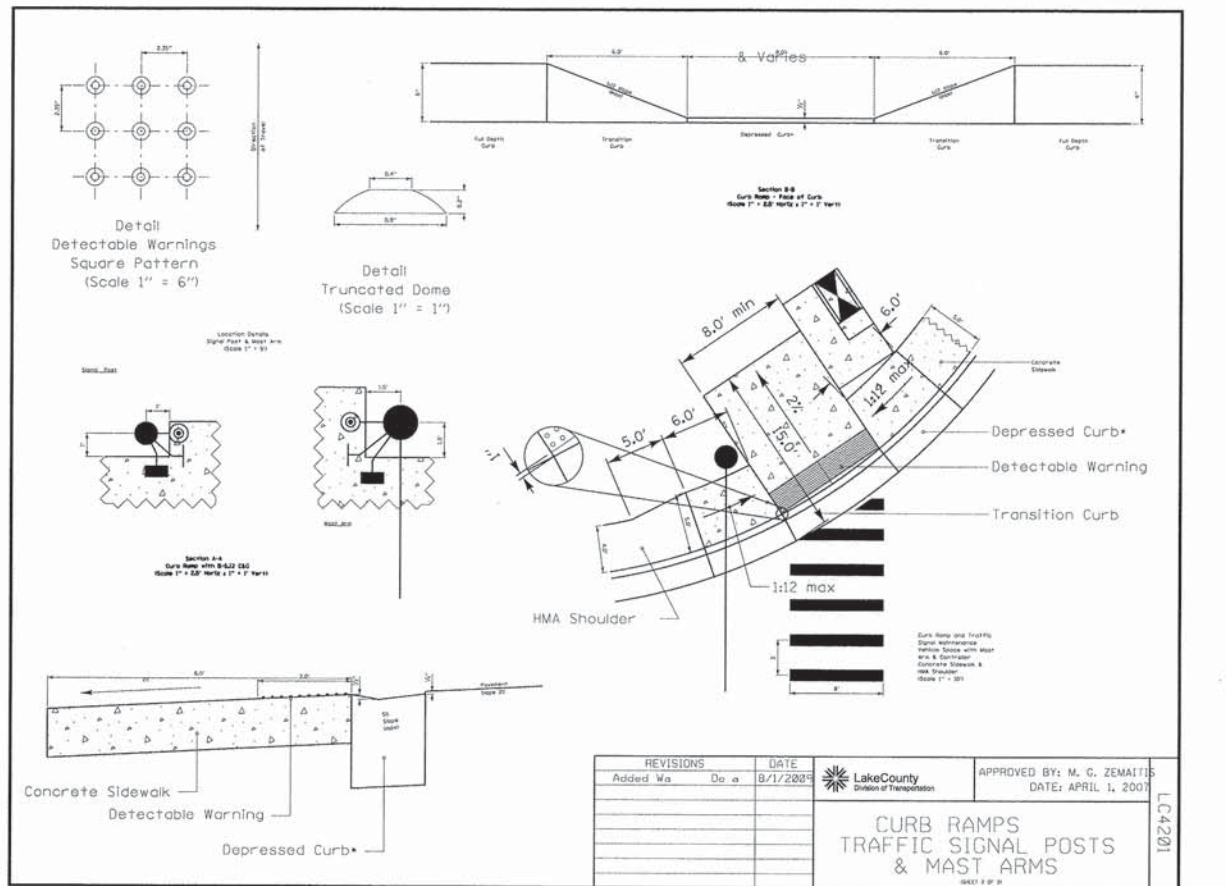
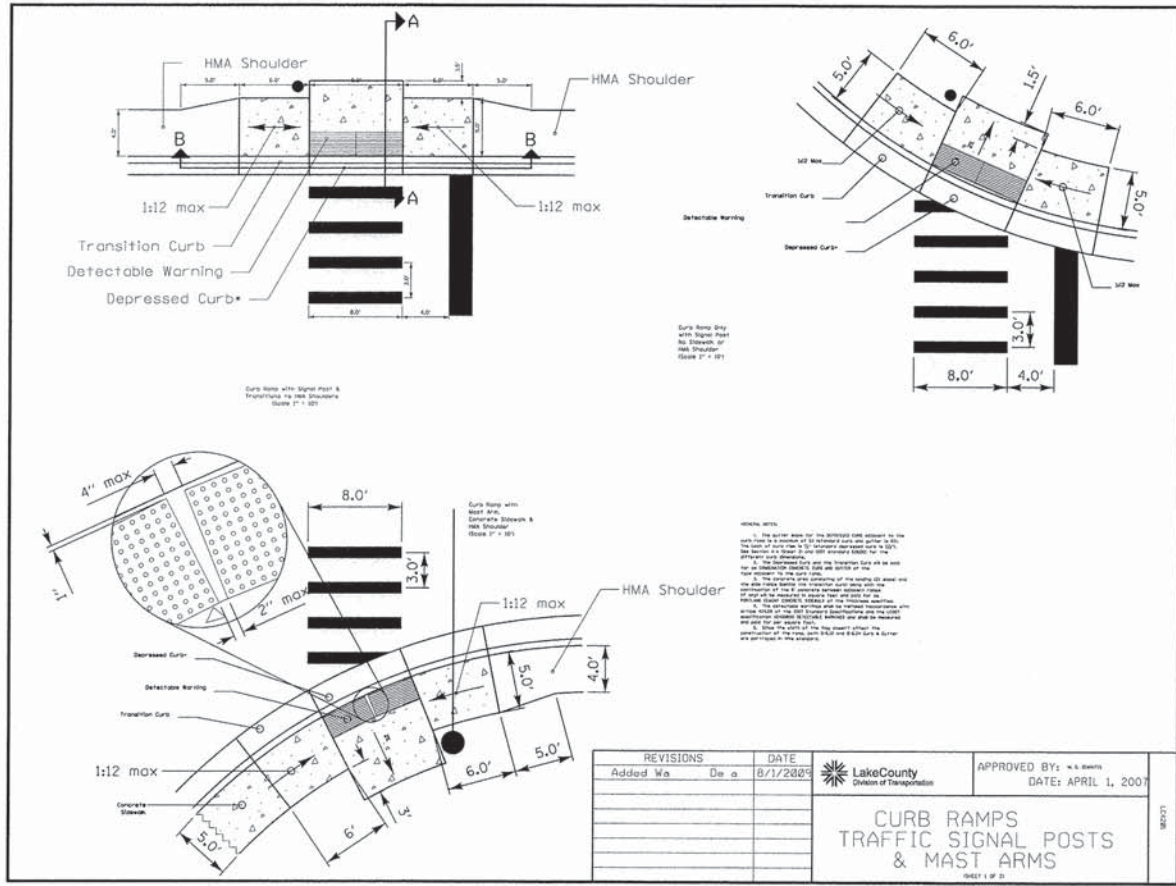
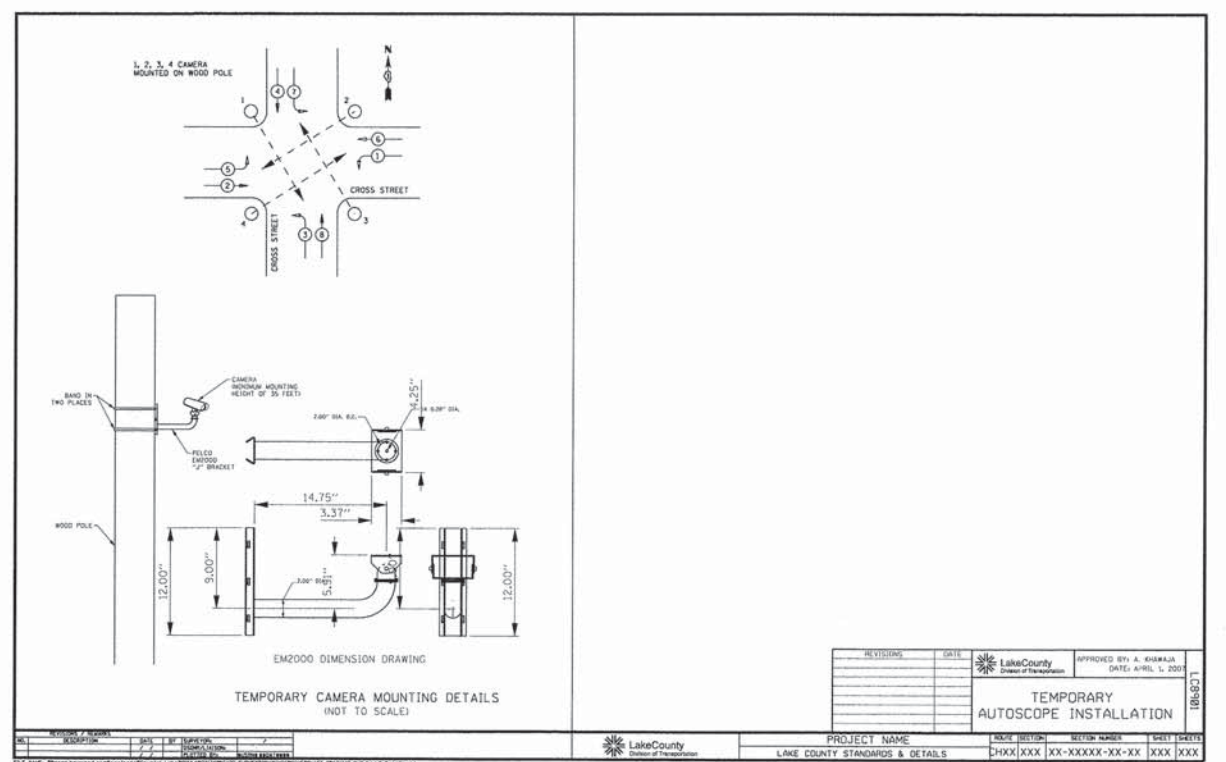
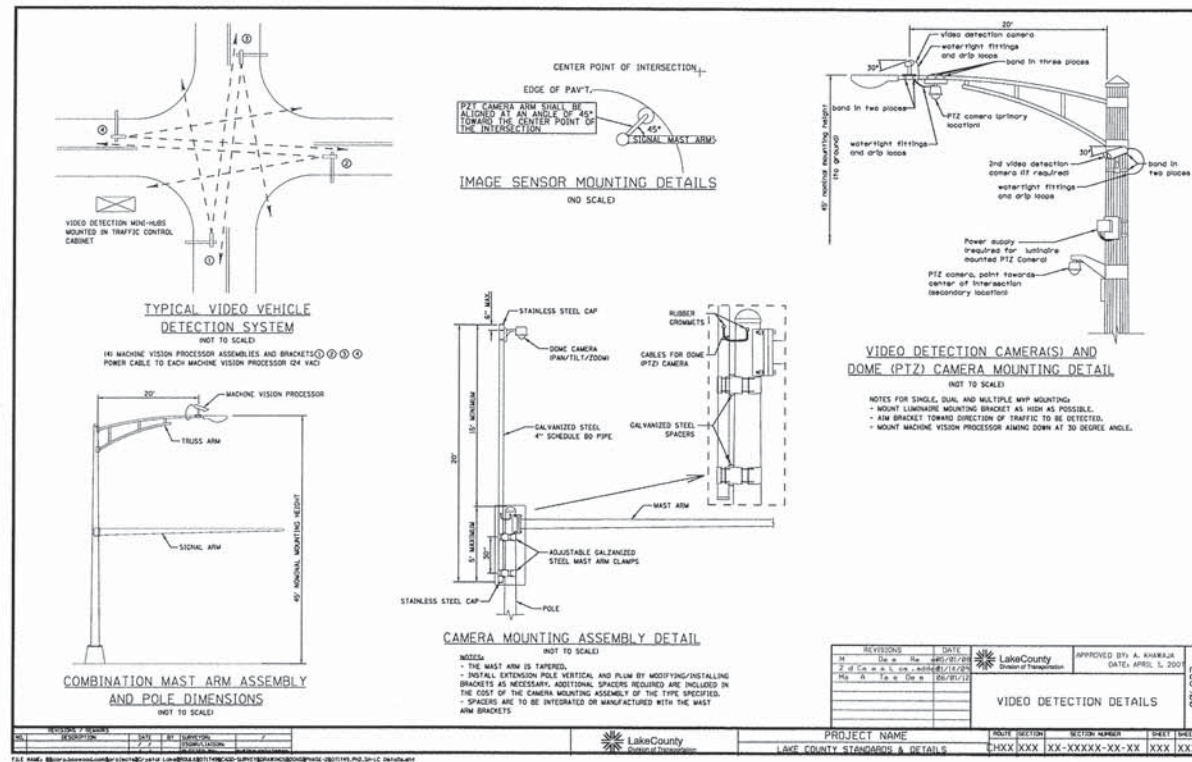
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY TRAFFIC CONTROL STANDARDS

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	87
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-9003(482)				



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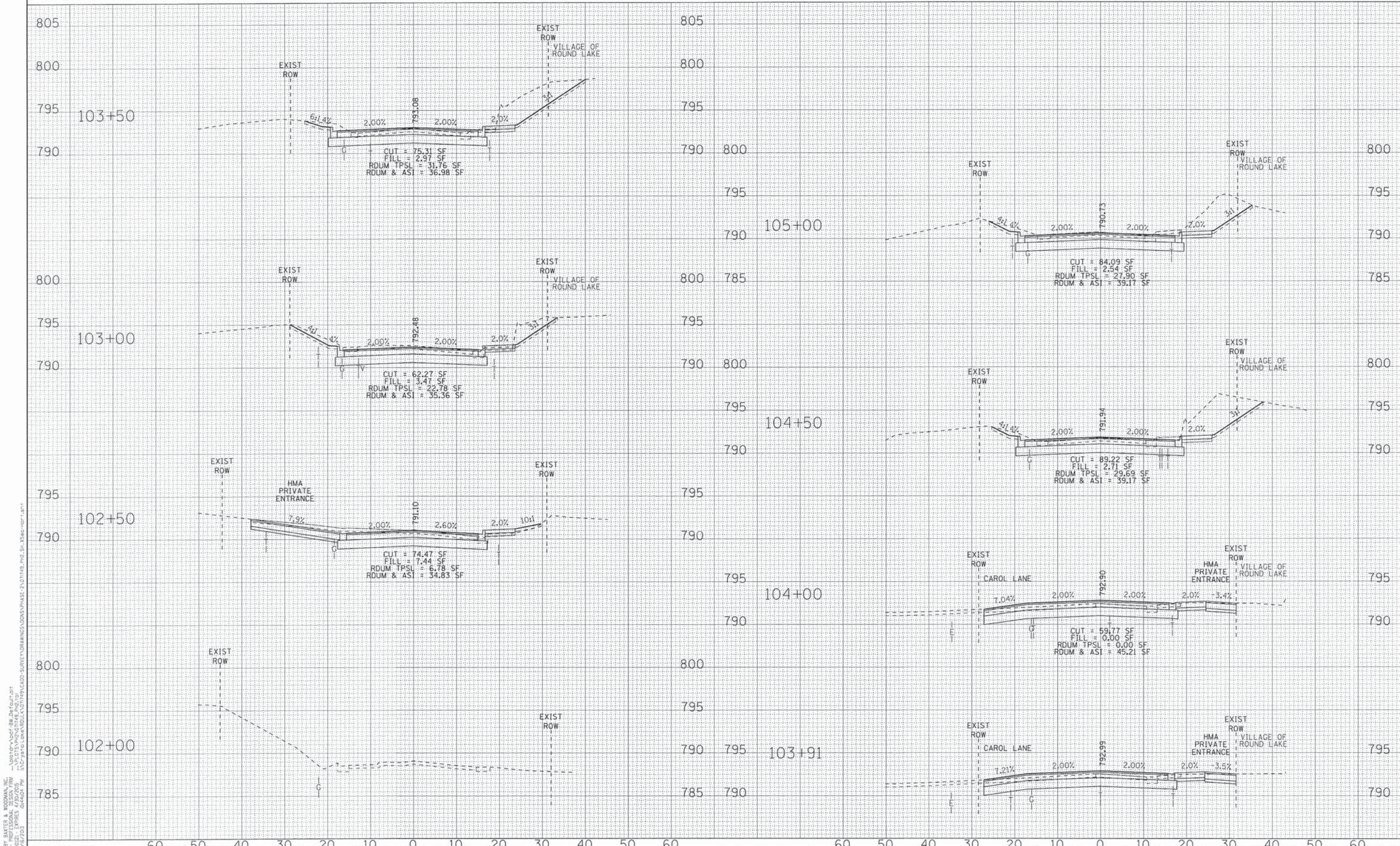
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DATE - 06/20/13	FILE - 071749-PH2-SH-LC-Details.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY TRAFFIC SIGNAL DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	88
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-9003(482)				

SCALE: NONE STA. TO STA.



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DESIGNED -	DSH	REVISED -	
DRAWN -	KAR	REVISED -	
CHECKED -	RWL	REVISED -	
DATE -	06/20/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

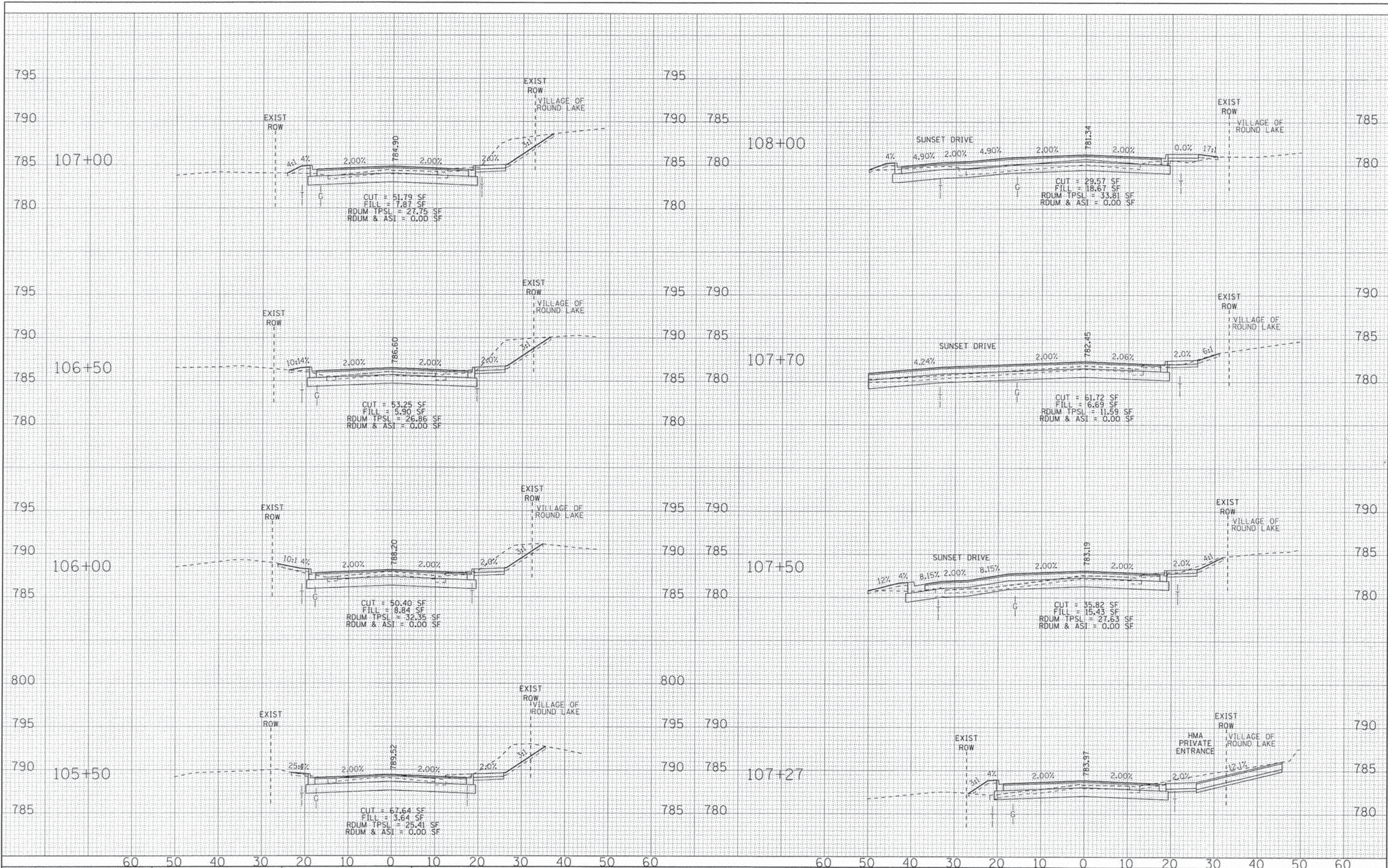
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**CROSS SECTIONS
HART ROAD**

STA. 102+00 TO STA. 105+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	89
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003482				

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 12/15/2015
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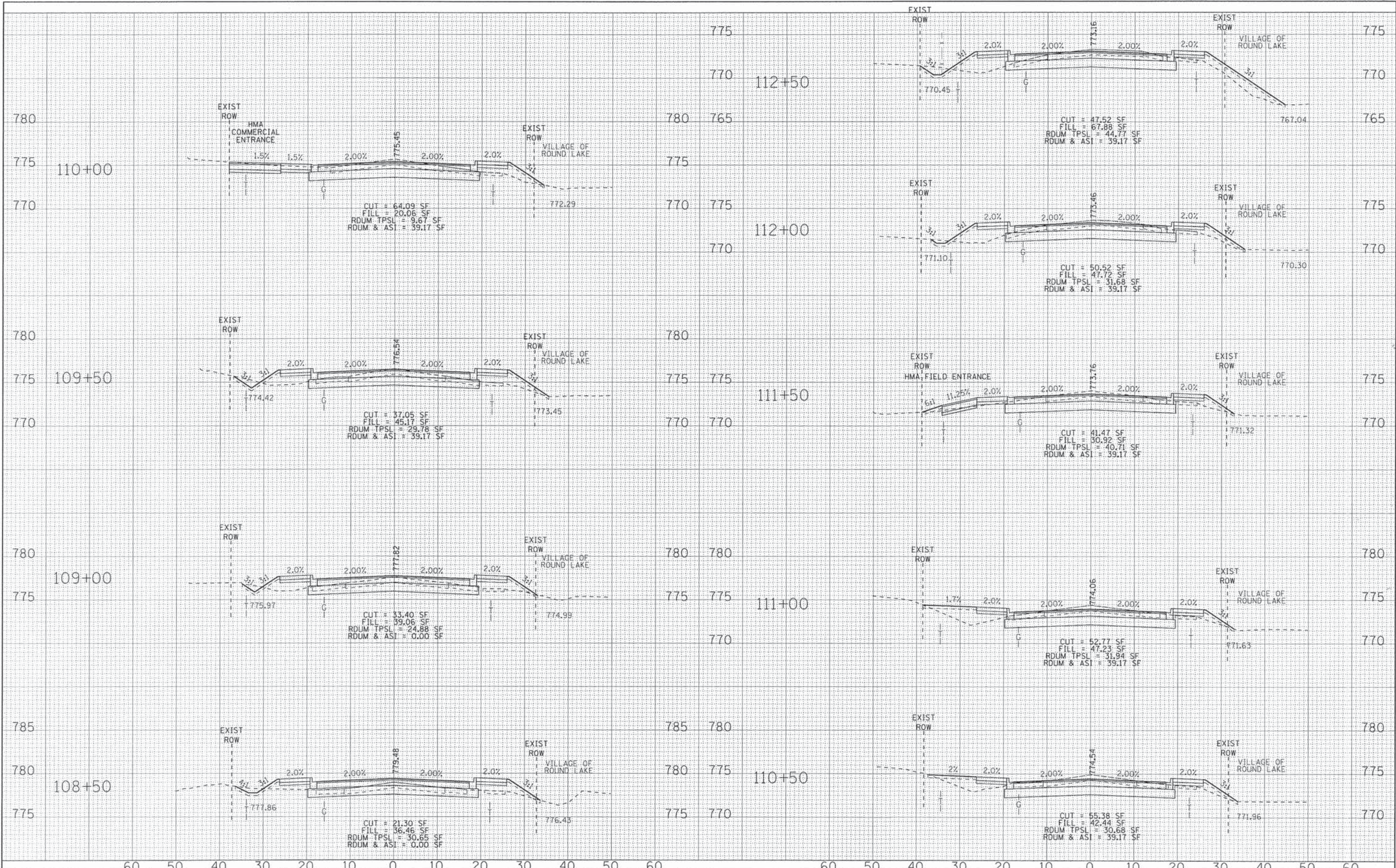
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DRAWN - KAR	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
HART ROAD**
SCALE: H: 1"=10' V: 1"=5'
STA. 105+50 TO STA. 108+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	90
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

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 LICENSE NO. 184-00017 - EXPIRES 6/30/2015
 1240 S. WASHINGTON ST., SUITE 200, CHICAGO, IL 60606-7000
 TEL: 312.467.1000 FAX: 312.467.1001



DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	REVISED -

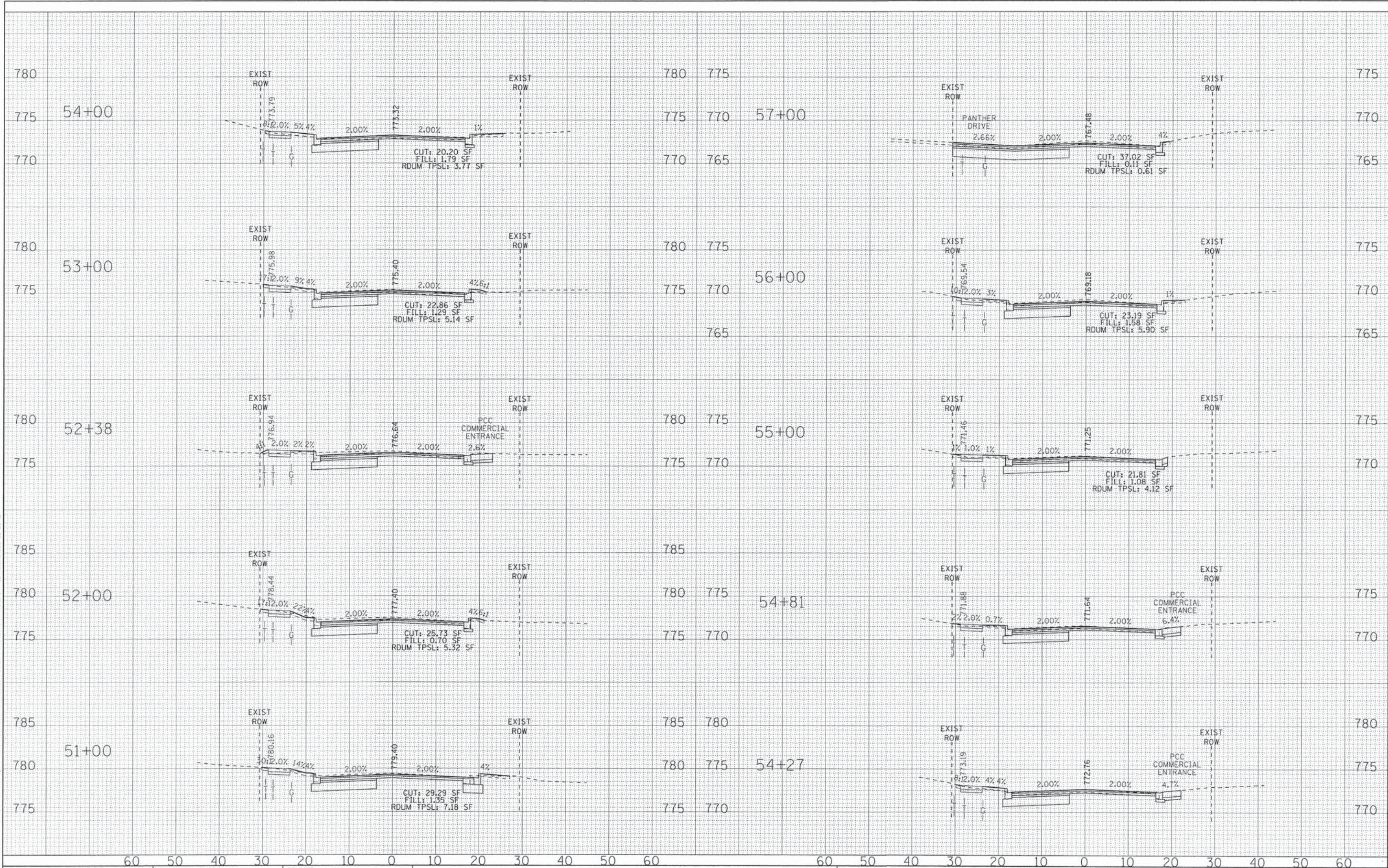
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
HART ROAD**

SCALE: H: 1"=10' V: 1"=5'
STA. 108+50 TO STA. 112+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	91
C-91-070-10		CONTRACT NO. 63868		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-9003482				

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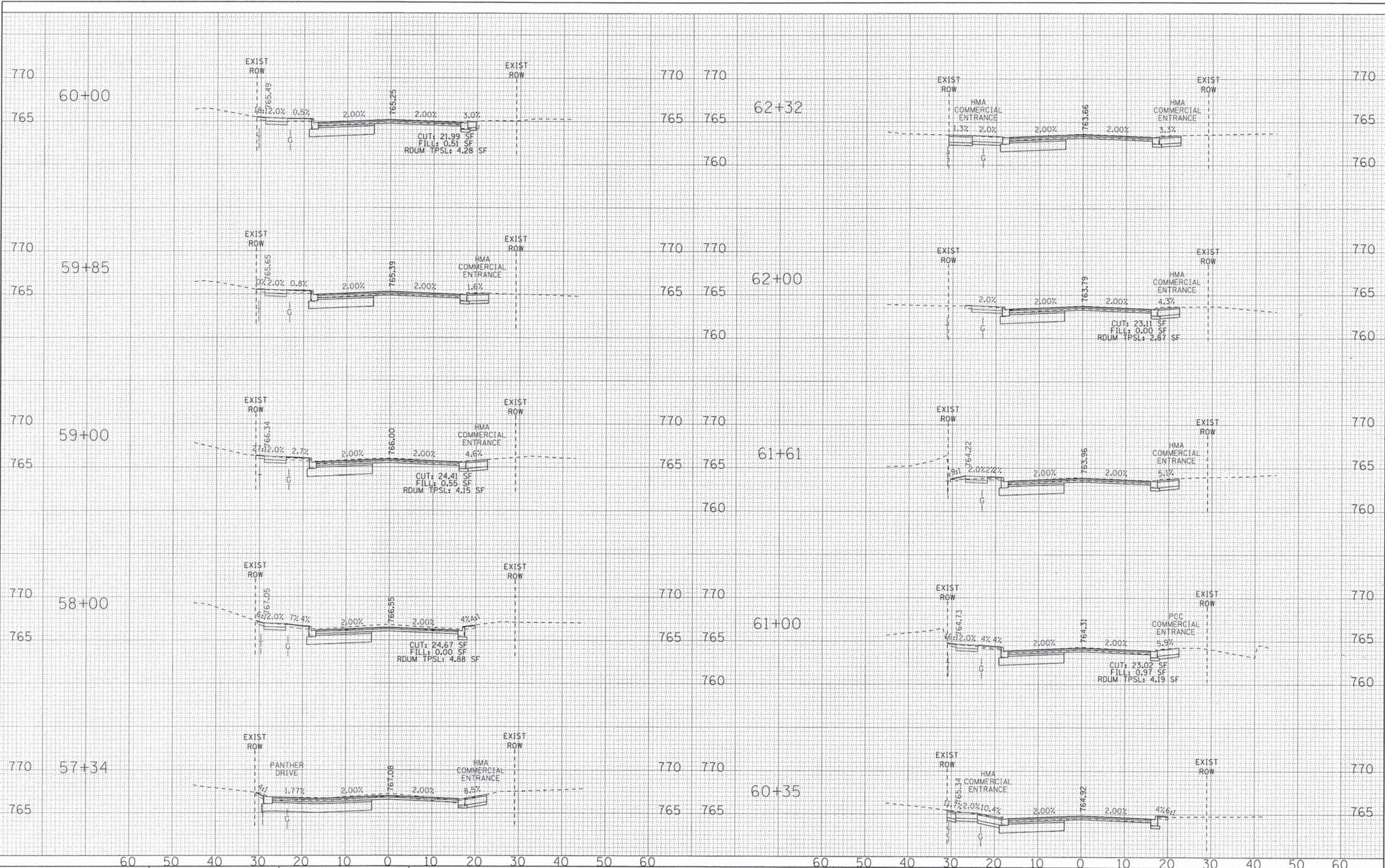
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DRAWN - KAR	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SUNSET DRIVE
 SCALE: H: 1"=10' V: 1"=5'
 STA. 51+00 TO STA. 57+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	93
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

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DRAWN - KAR	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

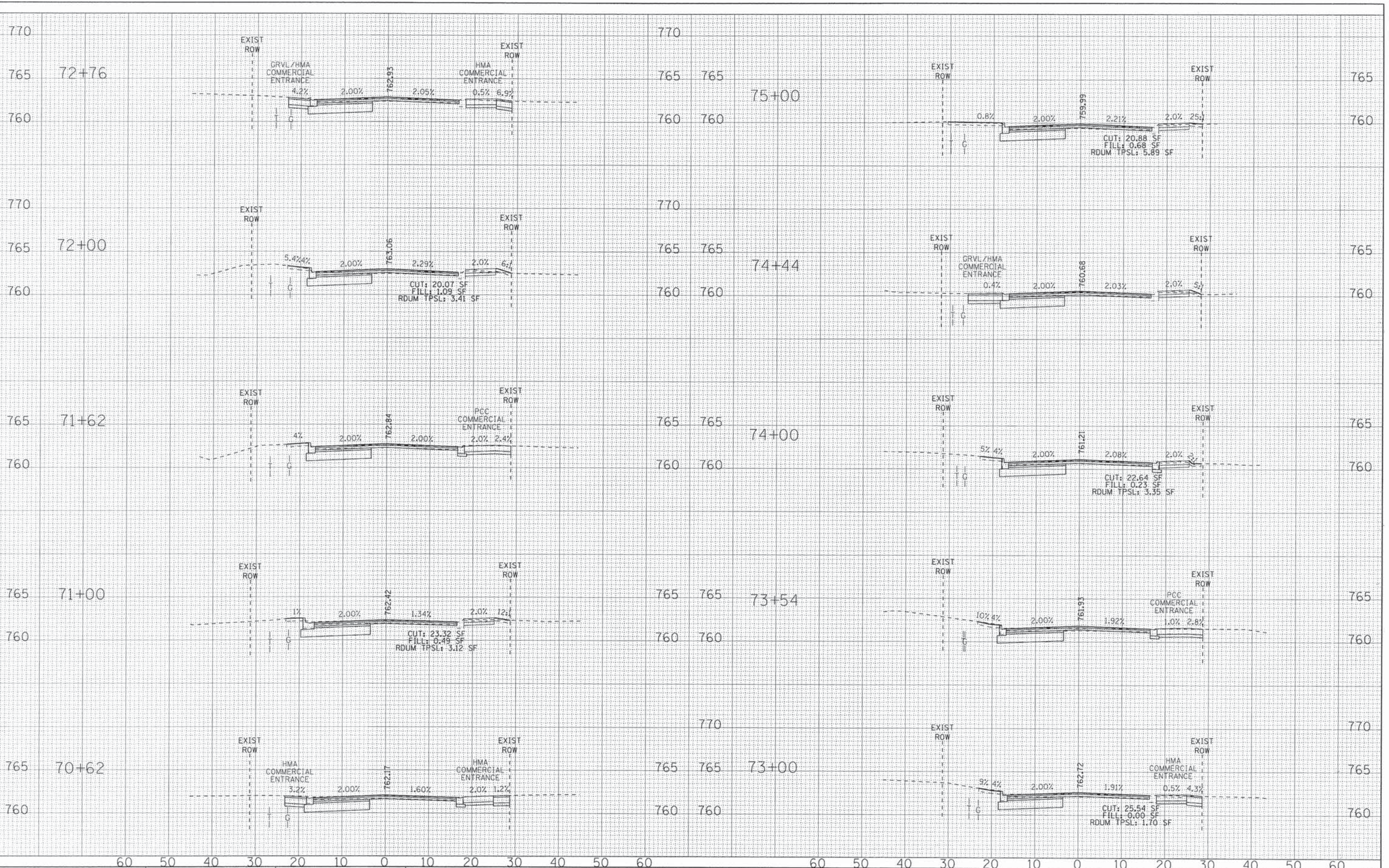
SCALE: H: 1"=10' V: 1"=5'

**CROSS SECTIONS
SUNSET DRIVE**

STA. 57+34 TO STA. 62+32

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	94
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-90034821				

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 WWW.BAXTERANDWOODMAN.COM

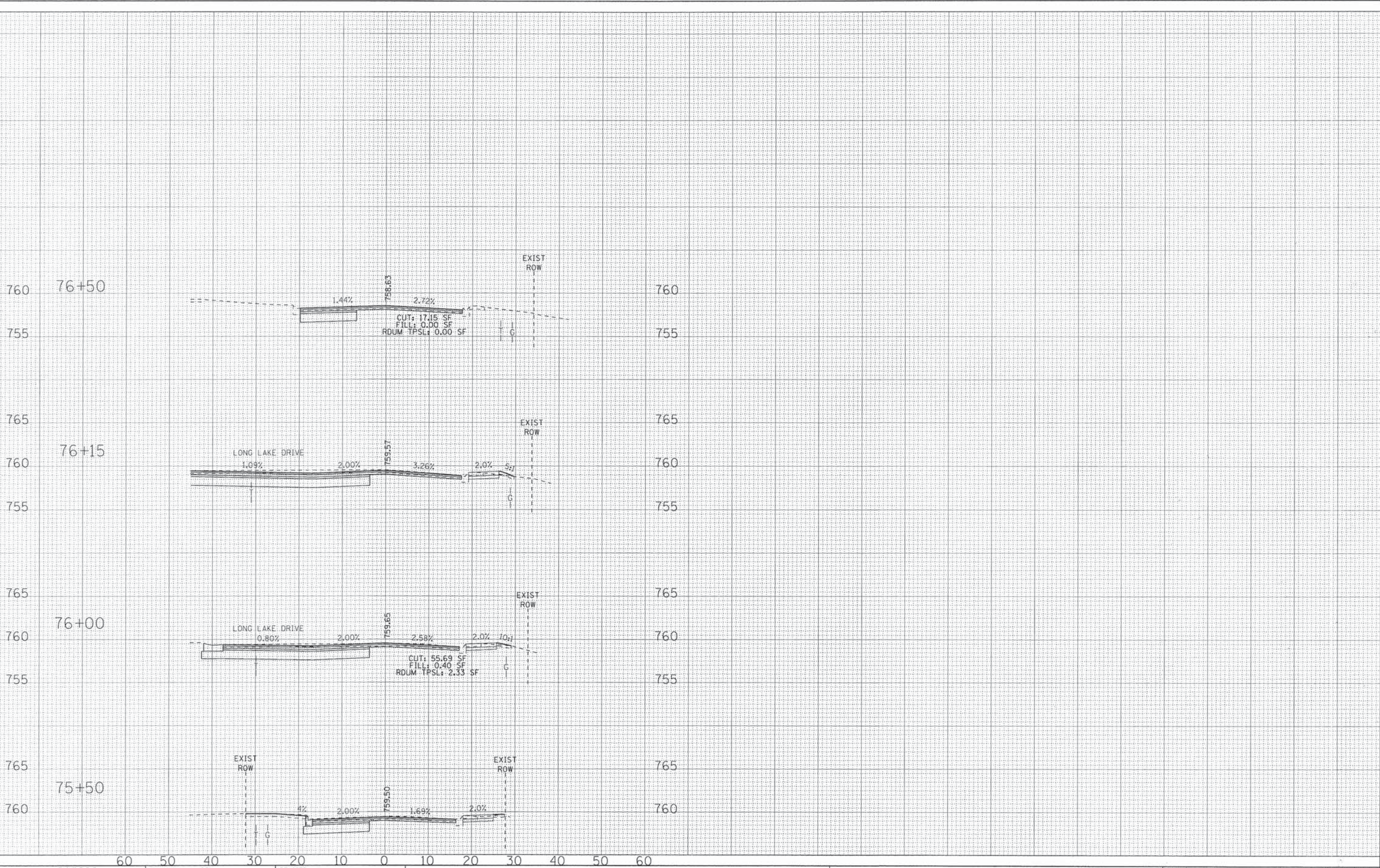


DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS SUNSET DRIVE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		C-91-070-10	00-00025-00-FP	LAKE	98	96
SCALE: H: 1"=10' V: 1"=5' STA. 70+62 TO STA. 75+00		CONTRACT NO. 63868 ILLINOIS FED. AID PROJECT M-9003482				

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 2/14/2013 8/16/2013
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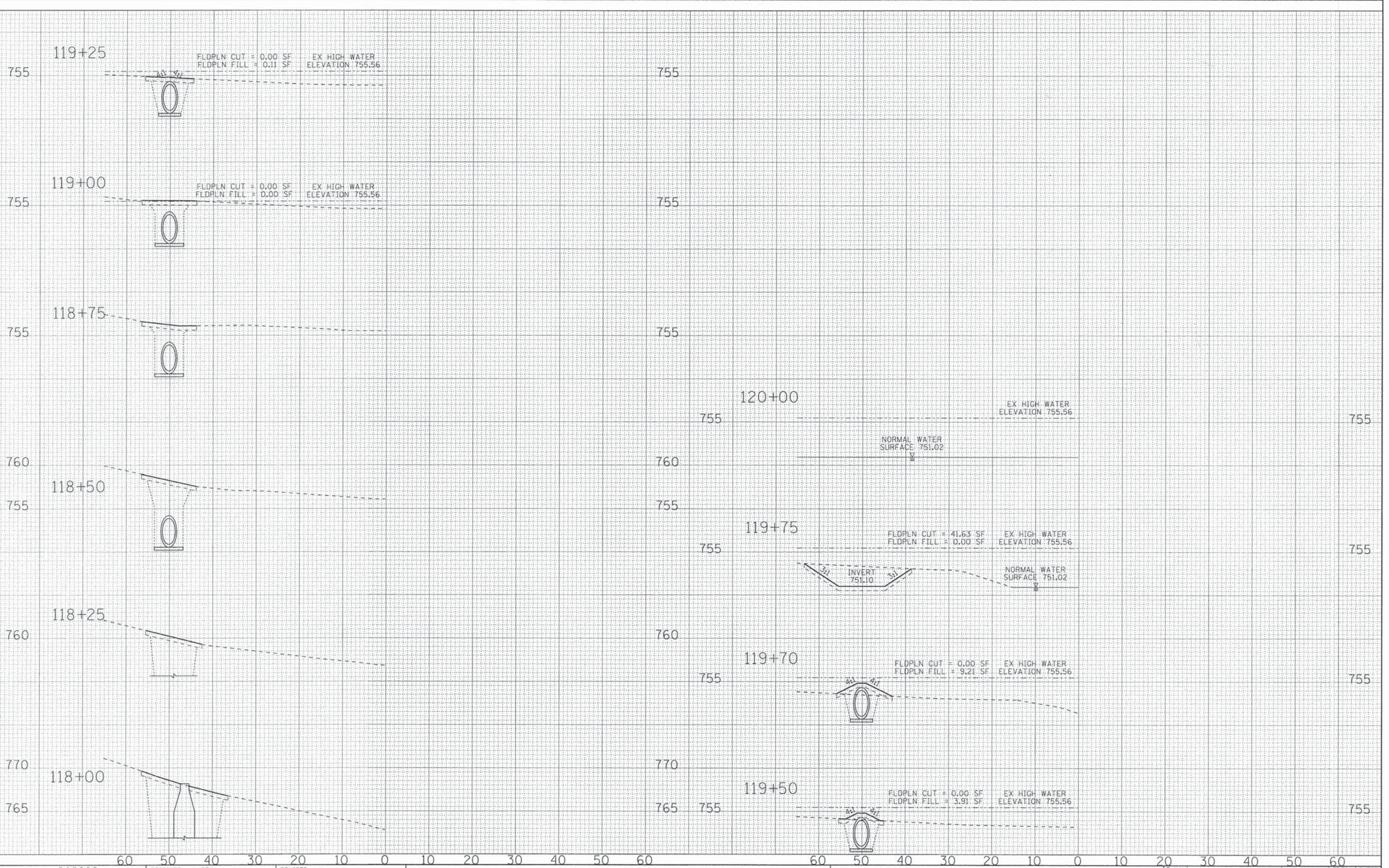
DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
CHECKED - RWL	REVISED -
DATE - 06/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SUNSET DRIVE
 SCALE: H: 1"=10' V: 1"=5'
 STA. 75+50 TO STA. 76+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	97
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(482)				

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 LICENSE NO. 001-000001, EXPIRES 12/31/2015
 150 Crystal Lake Road, Crystal Lake, IL 60142
 TEL: 815/233-8700 FAX: 815/233-8701



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CHECKED	- RWL	REVISED	-
DATE	- 04/16/13	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CEDAR VALLEY PARK
POND STORM SEWER

SCALE: H: 1"=10' V: 1"=5'

STA. 118+00 TO STA. 120+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0201	00-00025-00-FP	LAKE	98	98
C-91-070-10			CONTRACT NO. 63868	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003482				